ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2

LABORATORY NAME	ALS Laboratory Group		
CITY/STATE	Salt Lake City, UT 84123		
CASE NO.	45316	SDG NO.:	F9M21
SDG NOs. TO FOLLOW	N/A		
MOD. REF. NO.	N/A		
CONTRACT NO.	EP-W-11-037		
SOW NO.	SOM01.2		

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

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK USEPA
1. **Inventory Sheet** (DC-2) (Do not number)		07.20.15 DH	✓	
2. **SDG Case Narrative**	1	+	✓	
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			✓	

07/20/2015 DH

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ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2

CASE NO.	45316	SDG NO.:	F9M21
SDG NOs. TO FOLLOW	N/A		
MOD. REF. NO.	N/A		

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK USEPA
Matrix Spike/Matrix Spike Duplicate Data (if requested by USEPA Region	n/a		✓	
e. Trace SIM Data (Place at the end of the Trace Volatiles Section)			✓	
[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			✓	

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ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2 (CON'T)

CASE NO.	45316	SDG NO.:	F9M21
SDG NOs. TO FOLLOW	N/A		
MOD. REF. NO.	N/A		

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK USEPA
Matrix Spike/Matrix Spike Duplicate Data (if requested by USEPA Region	n/a		✓	
6. Semivolatiles Data				
a. QC Summary				
Deuterated Monitoring Compound Recovery (Form II SV-1 and SV-2, SV-3, SV-4)	7	8	✓	
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)	9	9	✓	
GC/MS Instrument Performance Check (Form V SV)	10	14	✓	
Internal Standard Area and RT Summary (Form VIII SV-1 and SV-2)	15	20	✓	
b. Sample Data	21	693		
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)	694	771		
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	772	783	✓	
Blank Data	784	801	✓	
MS/MSD Data (if requested by USEPA Region)	n/a		✓	
e. Raw GPC Data	802	804	✓	

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2 (CON'T)

CASE NO.	45316	SDG NO.:	F9M21
SDG NOs. TO FOLLOW	N/A		
MOD. REF. NO.	N/A		

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK USEPA
f. Semivolatile SIM Data [Form I SV-SIM; Form II SV-SIM1 and SV-SIM2; Form III SV-SIM1 and SV-SIM2 (if required); Form IV SV-SIM; Form VI-SIM; Form VII SV-SIM; Form VIII SV-SIM1 and SV-SIM2; and all raw data for QC, Samples, and Standards.]	805	1074	✓	
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)			✓	

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ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2 (CON'T)

CASE NO.	45316	SDG No	F9M21
SDG NOs. TO FOLLOW	N/A		
MOD. REF. NO.	N/A		

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK USEPA
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)			✓	

07/20/2015 DH

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

CASE NO.	45316	SDG NO.:	F9M21
SDG NOs. TO FOLLOW	N/A		
MOD. REF. NO.	N/A		

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK USEPA
c. Standards Data	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	1077	1083	✓	
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	1084	1084	✓	
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		✓	

07/20/2015 Off

07/20/2015 Off

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2 (CON'T)

CASE NO.	45316	SDG NO.:	F9M21
SDG NOs. TO FOLLOW	N/A		
MOD. REF. NO.	N/A		

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK USEPA
11. **Internal Lab Sample Transfer Records and Tracking Sheets** (describe or list)				
DCL Documentation Checking Forms	1085	1085	✓	
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)	7/20/15 (Date)
Verified by: (CLP Lab)	Roxanne Olson (Signature)	Roxanne Olson/Manager (Printed Name/Title)	7/20/15 (Date)
Audited by: (USEPA)	(Signature)	(Printed Name/Title)	(Date)

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

SDG Administrative Narrative

Contract: EPW11037

Case: 45316

SDG: F9M21

WO No(s):

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

07/20/2015 DH

Communications:

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

Comments:

None

Signature: Desiree Hall Date: 07/20/2015

Document Control Officer

SDG Narrative
Semivolatiles Fraction

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

Sample Number	ALS Sample ID	Dilution	Fraction
EPA ID	Lab ID	Dilution	Fraction
F9M21	1515542001		SVOA
F9M21	1515542001	2	SVOA SIM
F9M22	1515542002		SVOA
F9M22	1515542002	2	SVOA SIM
F9M23	1515542003	30	SVOA
F9M23	1515542003	200	SVOA SIM
F9M24	1515542004	5	SVOA
F9M24	1515542004	60	SVOA SIM
F9M25	1515542005		SVOA
F9M25	1515542005	2	SVOA SIM
F9M26	1515542006		SVOA
F9M26	1515542006	2	SVOA SIM
F9M27	1515542007		SVOA
F9M27	1515542007		SVOA SIM
F9M28	1515542010		SVOA
F9M28	1515542010		SVOA SIM
F9M29	1515542011		SVOA
F9M29	1515542011		SVOA SIM
F9M30	1515542012		SVOA
F9M30	1515542012		SVOA SIM
F9M31	1515542013		SVOA
F9M31	1515542013		SVOA SIM
F9M32	1515542014		SVOA
F9M32	1515542014	2	SVOA SIM
F9M33	1515542015		SVOA
F9M33	1515542015		SVOA SIM
F9M34	1515542016		SVOA
F9M34	1515542016	2	SVOA SIM
F9M35	1515542017		SVOA
F9M35	1515542017	3	SVOA SIM
F9M37	1515542018		SVOA
F9M37	1515542018	20	SVOA SIM
F9M38	1515542019		SVOA
F9M38	1515542019		SVOA SIM
F9M39	1515542020		SVOA
F9M39	1515542020		SVOA SIM
F9M40	1515542021		SVOA
F9M40	1515542021	20	SVOA SIM
F9M41	1515542022		SVOA
F9M41	1515542022	5	SVOA SIM

General SDG Information: Samples were analyzed according to USEPA CLP Statement of Work SOM01.2. There are no deviations from the SOW except as noted below. 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-G for full scan, 5975-D for SIM)
Column: J&W Scientific DB-5ms column, 95% dimethyl-(5%)-diphenylsiloxane, nonpolar 30 m x 0.32 mm I.D. with a 0.50 µm film thickness

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

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

Initial and Continuing Calibration Verification: All initial and continuing calibration standards met minimum response factor, RSD and %D criteria. 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 for the SIM analysis and for full scan.

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

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

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

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

The explanation for each of these manual integrations is that the data system did not correctly integrate the peak in its automated data evaluation procedure. More specifically, some of the more common mis-integrated peaks are described as follows: 1,4-Dioxane and 1,4-Dioxane-d8 are split peaks and need to be manually integrated. Indeno(1,2,3-c,d)pyrene elutes near dibenz(a,h)anthracene, and a hump from the 276 ion in dibenz(a,h)anthracene sometimes needs to be manually excluded from Indeno(1,2,3-c,d)pyrene. Isomers such as anthracene and benzo(a)anthracene are often called as the similar and near-eluting phenanthrene or chrysene peak. Benzo(b) and Benzo(k)fluoranthene elute very closely to each other without baseline resolution between the two peaks. The automated peak finding routine quite often integrates both peaks as if they were one, and it is necessary to manually separate the isomers. Bis(2-

chloroethyl)ether sometimes needs to be manually separated from the near-eluting aniline. Caprolactam has a tail, especially at higher concentrations, that is often truncated, leaving the need to manually include the tail. Some phenolics and carbazole sometimes have the need to manually include the tailing. Acetophenone sometimes needs to be manually separated from a near-eluting 3-carbon alklyated benzene TIC peak. Benzo(ghi)perylene and dibenz(a,h)anthracene will sometimes be sliced in half by the automatic integration routine and a manual integration would be needed to include the entire peak. Perylene-d12 in the SIM analysis often needs to be manually separated from the baseline arising from benzo(a)pyrene-d12, a near-eluting and considerably larger isomer peak. Sometimes the automatic peak finding routine will simply miss a peak, making it necessary to manually include it. This was the case with all analytes not mentioned above.

For full-scan analysis:

Sample	Analyte	Scan start	Scan stop
SSTD040GX	Caprolactam	812	841
SSTD080GX	Caprolactam	814	850
F9M21	Benzo(b)fluoranthene	2588	2600
F9M22	Benzo(b)fluoranthene	2588	2598
F9M23	Benzo(b)fluoranthene	2614	2627
F9M24	Benzo(a)pyrene	2693	2707
F9M25	Benzo(b)fluoranthene	2588	2599
F9M25	Benzo(b)fluoranthene	2588	2600
F9M32	Benzo(a)pyrene	2695	2707
F9M34	Benzo(k)fluoranthene	2599	2610
F9M35	Benzo(k)fluoranthene	2599	2609
F9M37	Benzo(k)fluoranthene	2600	2608
F9M37	Benzo(g,h,i)perylene	3295	3322
F9M37	Dibenzo(a,h)anthracene	3168	3194
F9M40	Benzo(k)fluoranthene	2600	2609

For SIM analysis:

Sample	Analyte	Scan start	Scan stop
F9M21	Anthracene	1229	1239
F9M21	Benzo(k)fluoranthene	2342	2352
F9M22	Anthracene	1229	1241
F9M22	Benzo(k)fluoranthene	2341	2352
F9M23	Benzo(b)fluoranthene	2408	2425
F9M25	Anthracene	1229	1242
F9M25	Benzo(k)fluoranthene	2342	2353
F9M27	Anthracene	1230	1241
F9M27	Benzo(k)fluoranthene	2343	2353
F9M28	Anthracene	1230	1240
F9M28	Pyrene	1684	1694
F9M28	Benzo(k)fluoranthene	2343	2353
F9M31	Anthracene	1231	1241
F9M31	Benzo(k)fluoranthene	2343	2353
F9M32	Benzo(k)fluoranthene	2343	2353
F9M33	Anthracene	1231	1240
F9M33	Benzo(k)fluoranthene	2343	2354

F9M34	Pyrene	1678	1694
F9M34	Benzo(k)fluoranthene	2343	2353
F9M35	Benzo(k)fluoranthene	2343	2354
F9M37	Benzo(k)fluoranthene	2423	2432
F9M38	Anthracene	1231	1241
F9M38	Benzo(k)fluoranthene	2343	2354
F9M39	Anthracene	1231	1241
F9M39	Benzo(k)fluoranthene	2343	2354
F9M40	Benzo(k)fluoranthene	2423	2433
F9M41	Benzo(k)fluoranthene	2423	2433

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

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

Water:

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

Soil:

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

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

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

July 20, 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.: F9M21

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	SDMC1 (PHL) #	SDMC2 (BCE) #	SDMC3 (2CP) #	SDMC4 (4MP) #	SDMC5 (NBZ) #	SDMC6 (2NP) #	SDMC7 (DCP) #	SDMC8 (4CA) #
01	F9M21	77	70	77	74	76	79	81	0 *
02	F9M22	83	77	82	65	83	83	85	1 *
03	F9M23	71	68	73	69	76	76	76	119
04	F9M24	70	67	73	70	70	69	70	14
05	F9M25	78	73	79	71	79	81	81	0 *
06	F9M26	75	71	75	66	76	77	76	0 *
07	F9M27	48	46	46	26	50	51	46	1 *
08	F9M28	64	59	62	29	68	71	66	0 *
09	F9M29	69	68	66	24	73	76	66	1 *
10	F9M30	68	71	74	32	78	81	72	1 *
11	F9M31	83	76	83	71	82	83	85	0 *
12	F9M32	66	49	60	37	58	61	74	1 *
13	F9M33	64	57	58	25	66	66	64	2
14	F9M34	74	68	72	42	74	75	77	0 *
15	F9M35	66	47	63	55	59	62	75	0 *
16	F9M37	71	50	69	48	62	67	79	0 *
17	F9M38	68	70	74	22	76	76	76	0 *
18	F9M39	62	53	57	15	59	62	61	0 *
19	F9M40	73	68	73	58	73	74	76	0 *
20	F9M41	70	72	68	20	76	76	65	0 *
21	SBLK93	73	68	72	32	77	79	66	3
22									
23									
24									
25									
26									
27									
28									
29									
30									

	QC LIMITS
SDMC1 (PHL) = Phenol-d5	(17-103)
SDMC2 (BCE) = Bis(2-chloroethyl)ether-d8	(12-98)
SDMC3 (2CP) = 2-Chlorophenol-d4	(13-101)
SDMC4 (4MP) = 4-Methylphenol-d8	(8-100)
SDMC5 (NBZ) = Nitrobenzene-d5	(16-103)
SDMC6 (2NP) = 2-Nitrophenol-d4	(16-104)
SDMC7 (DCP) = 2,4-Dichlorophenol-d3	(23-104)
SDMC8 (4CA) = 4-Chloroaniline-d4	(1-145)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D DMC diluted out

2K - FORM II SV-4

SOIL SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

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

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	SDMC9 (DMP) #	SDMC10 (ACY) #	SDMC11 (4NP) #	SDMC12 (FLR) #	SDMC13 (NMP) #	SDMC14 (ANC) #	SDMC15 (PYR) #	SDMC16 (BAP) #	TOT OUT
01	F9M21	89	82	83	87	58	80	89	79	1
02	F9M22	96	84	87	94	51	80	91	76	1
03	F9M23	93	88	59	101	71	100 D	97	95	0
04	F9M24	77	72	64	76	32	76	75	76	0
05	F9M25	85	78	77	85	41	74	88	73	1
06	F9M26	85	77	79	85	64	75	87	74	1
07	F9M27	53	49	46	52	36	43	51 *	41 *	3
08	F9M28	79	70	75	78	53	66	76	62	1
09	F9M29	80	74	72	79	52	69	77	63	1
10	F9M30	87	81	81	86	60	83	89	82	1
11	F9M31	95	85	85	93	48	82	95	81	1
12	F9M32	91	80	86	90	38	73	93	65	1
13	F9M33	84	71	79	82	30	72	81	62	0
14	F9M34	90	81	82	89	26	69	85	64	1
15	F9M35	84	75	77	82	28	73	83	67	1
16	F9M37	88	80	79	86	28	74	87	69	1
17	F9M38	87	79	78	86	28	69	83	66	1
18	F9M39	79	69	71	78	25	61	80	58	1
19	F9M40	86	77	78	83	26	72	83	69	1
20	F9M41	81	74	71	78	29	62	73	50	1
21	SBLK93	81	76	76	80	78	79	82	78	0
22										
23										
24										
25										
26										
27										
28										
29										
30										

	QC LIMITS
SDMC9 (DMP) = Dimethylphthalate-d6	(43-111)
SDMC10 (ACY) = Acenaphthylene-d8	(20-97)
SDMC11 (4NP) = 4-Nitrophenol-d4	(16-166)
SDMC12 (FLR) = Fluorene-d10	(40-108)
SDMC13 (NMP) = 4,6-Dinitro-2-methylphenol-d2	(1-121)
SDMC14 (ANC) = Anthracene-d10	(22-98)
SDMC15 (PYR) = Pyrene-d10	(51-120)
SDMC16 (BAP) = Benzo(a)pyrene-d12	(43-111)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D DMC diluted out

4C - FORM IV SV
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK93

Lab Name: ALS Environmental Contract: EPW11037

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

Lab File ID: GBK03BLK Lab Sample ID: 450193

Instrument ID: 5975-G Date Extracted: 06/08/2015

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 06/12/2015

Level: (LOW/MED) LOW Time Analyzed: 17:14

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	F9M21	1515542001	GCP02F01	07/10/2015
02	F9M22	1515542002	GCP03F02	07/10/2015
03	F9M23	1515542003	GBK07F03	06/12/2015
04	F9M24	1515542004	GCP05F04	07/10/2015
05	F9M25	1515542005	GCP06F05	07/10/2015
06	F9M26	1515542006	GCP09F06	07/10/2015
07	F9M27	1515542007	GCP10F07	07/10/2015
08	F9M28	1515542010	GCP11F10	07/10/2015
09	F9M29	1515542011	GCP12F11	07/10/2015
10	F9M30	1515542012	GCP13F12	07/10/2015
11	F9M31	1515542013	GCP14F13	07/10/2015
12	F9M32	1515542014	GCP15F14	07/10/2015
13	F9M33	1515542015	GCP16F15	07/10/2015
14	F9M34	1515542016	GCP17F16	07/10/2015
15	F9M35	1515542017	GCP18F17	07/10/2015
16	F9M37	1515542018	GCP19F18	07/10/2015
17	F9M38	1515542019	GCP20F19	07/10/2015
18	F9M39	1515542020	GCP21F20	07/10/2015
19	F9M40	1515542021	GCP22F21	07/10/2015
20	F9M41	1515542022	GCP23F22	07/10/2015
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

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

EPA SAMPLE NO.: DFTPPGX

Lab Name: ALS Environmental Contract: EPW11037

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

Lab File ID: GAX01S20 DFTPP Injection Date: 05/27/2015

Instrument ID: 5975-G DFTPP Injection Time: 15:49

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	34.5
68	Less than 2.0% of mass 69	0.8 (2.0) 1
69	Mass 69 relative abundance	38.4
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	51.1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	24.4
365	Greater than 1.0% of mass 198	2.8
441	Present, but less than mass 443	12.1
442	50.0 - 100% of mass 198	79.9
443	15.0 - 24.0% of mass 442	15.8 (19.8) 2

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD020GX	SSTD020GX	GAX01S20	05/27/2015	15:49
02	SSTD005GX	SSTD005GX	GAX02S05	05/27/2015	16:21
03	SSTD010GX	SSTD010GX	GAX03S10	05/27/2015	16:54
04	SSTD040GX	SSTD040GX	GAX06S40	05/27/2015	18:30
05	SSTD080GX	SSTD080GX	GAX07S80	05/27/2015	19:02
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					

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

EPA SAMPLE NO: DFTPPGK

Lab Name: ALS Environmental Contract: EPW11037

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

Lab File ID: GBK02S20 DFTPP Injection Date: 06/12/2015

Instrument ID: 5975-G DFTPP Injection Time: 16:39

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	30.8
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	36.2
70	Less than 2.0% of mass 69	0.1 (0.4) 1
127	10.0 - 80.0% of mass 198	50.1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	25.3
365	Greater than 1.0% of mass 198	3.0
441	Present, but less than mass 443	13.8
442	50.0 - 100% of mass 198	91.0
443	15.0 - 24.0% of mass 442	17.3 (19.0) 2

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD020GK	SSTD020GK	GBK02S20	06/12/2015	16:39
02	SBLK93	450193	GBK03BLK	06/12/2015	17:14
03	F9M23	1515542003	GBK07F03	06/12/2015	19:24
04	SSTD020K1	SSTD020K1	GBK21S20	06/13/2015	02:54
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
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16					
17					
18					
19					
20					
21					

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

EPA SAMPLE NO:
DFTPPGT

Lab Name: ALS Environmental Contract: EPW11037

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

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

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

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD005GV	SSTD005GV	GBV03S05	06/20/2015	11:10
02	SSTD010GV	SSTD010GV	GBV04S10	06/20/2015	11:43
03	SSTD020GV	SSTD020GV	GBV05S20	06/20/2015	12:16
04	SSTD040GV	SSTD040GV	GBV06S40	06/20/2015	12:49
05	SSTD080GV	SSTD080GV	GBV07S80	06/20/2015	13:22
06					
07					
08					
09					
10					
11					
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14					
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16					
17					
18					
19					
20					
21					

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

EPA SAMPLE NO: DFTPPGP

Lab Name: ALS Environmental Contract: EPW11037

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

Lab File ID: GCP01S20 DFTPP Injection Date: 07/10/2015

Instrument ID: 5975-G DFTPP Injection Time: 09:42

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	68.8
68	Less than 2.0% of mass 69	0.7 (1.5) 1
69	Mass 69 relative abundance	49.2
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	47.2
197	Less than 2.0% of mass 198	0.2
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	18.3
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	54.0
443	15.0 - 24.0% of mass 442	10.2 (18.9) 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	SSTD020GP	SSTD020GP	GCP01S20	07/10/2015	09:42
02	F9M21	1515542001	GCP02F01	07/10/2015	10:20
03	F9M22	1515542002	GCP03F02	07/10/2015	10:54
04	F9M24	1515542004	GCP05F04	07/10/2015	11:27
05	F9M25	1515542005	GCP06F05	07/10/2015	12:01
06	SSTD020G1	SSTD020G1	GCP08S20	07/10/2015	13:21
07	F9M26	1515542006	GCP09F06	07/10/2015	13:54
08	F9M27	1515542007	GCP10F07	07/10/2015	14:28
09	F9M28	1515542010	GCP11F10	07/10/2015	15:02
10	F9M29	1515542011	GCP12F11	07/10/2015	15:35
11	F9M30	1515542012	GCP13F12	07/10/2015	17:02
12	F9M31	1515542013	GCP14F13	07/10/2015	17:35
13	F9M32	1515542014	GCP15F14	07/10/2015	18:07
14	F9M33	1515542015	GCP16F15	07/10/2015	18:41
15	F9M34	1515542016	GCP17F16	07/10/2015	19:14
16	F9M35	1515542017	GCP18F17	07/10/2015	19:47
17	F9M37	1515542018	GCP19F18	07/10/2015	20:20
18	F9M38	1515542019	GCP20F19	07/10/2015	20:53
19	F9M39	1515542020	GCP21F20	07/10/2015	21:26
20	F9M40	1515542021	GCP22F21	07/10/2015	21:59
21	F9M41	1515542022	GCP23F22	07/10/2015	22:32

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

EPA SAMPLE NO: DFTPPGP

Lab Name: ALS Environmental Contract: EPW11037

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

Lab File ID: GCP01S20 DFTPP Injection Date: 07/10/2015

Instrument ID: 5975-G DFTPP Injection Time: 09:42

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	68.8
68	Less than 2.0% of mass 69	0.7 (1.5) 1
69	Mass 69 relative abundance	49.2
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	47.2
197	Less than 2.0% of mass 198	0.2
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	18.3
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	54.0
443	15.0 - 24.0% of mass 442	10.2 (18.9) 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	SSTD020P2	SSTD020P2	GCP24S20	07/10/2015	23:06
02					
03					
04					
05					
06					
07					
08					
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16					
17					
18					
19					
20					
21					

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

Lab Name: ALS Environmental Contract: EPW11037

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

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

EPA Sample No.(SSTD020##): SSTD020GK Date Analyzed: 06/12/2015

Lab File ID (Standard): GBK02S20 Time Analyzed: 16:39

Instrument ID: 5975-G

	IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD		331787		4.96		1253617		6.37		697317		9.02	
	UPPER LIMIT		663574		5.46		2507234		6.87		1394634		9.52	
	LOWER LIMIT		165894		4.46		626809		5.87		348659		8.52	
	EPA SAMPLE NO.													
01	SBLK93		355500		4.96		1388256		6.37		802233		9.02	
02	F9M23		299613		4.96		1120798		6.37		651208		9.02	
03														
04														
05														
06														
07														
08														
09														
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11														
12														
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14														
15														
16														
17														
18														
19														
20														
21														
22														

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

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

Lab Name: ALS Environmental Contract: EPW11037

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

EPA Sample No.(SSTD020##): SSTD020GK Date Analyzed: 06/12/2015

Lab File ID (Standard): GBK02S20 Time Analyzed: 16:39

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

	IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD		1142317		11.66		1108122		15.84		1089928		18.26
	UPPER LIMIT		2284634		12.16		2216244		16.34		2179856		18.76
	LOWER LIMIT		571159		11.16		554061		15.34		544964		17.76
	EPA SAMPLE NO.											
01	SBLK93		1296788		11.65		1247962		15.83		1232287		18.26
02	F9M23		1095066		11.65		1104801		15.84		986208		18.27
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.

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

Lab Name: ALS Environmental Contract: EPW11037

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

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

EPA Sample No.(SSTD020##): SSTD020GP Date Analyzed: 07/10/2015

Lab File ID (Standard): GCP01S20 Time Analyzed: 09:42

Instrument ID: 5975-G

	IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD		341485		4.87		1254526		6.27		740719		8.90	
	UPPER LIMIT		682970		5.37		2509052		6.77		1481438		9.40	
	LOWER LIMIT		170743		4.37		627263		5.77		370360		8.40	
	EPA SAMPLE NO.													
01	F9M21		340935		4.87		1261256		6.27		721453		8.90	
02	F9M22		226755		4.87		851567		6.26		494758		8.89	
03	F9M24		290281		4.87		1085227		6.26		632800		8.89	
04	F9M25		310883		4.87		1141547		6.26		671462		8.90	
05														
06														
07														
08														
09														
10														
11														
12														
13														
14														
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16														
17														
18														
19														
20														
21														
22														

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

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

Lab Name: ALS Environmental Contract: EPW11037

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

EPA Sample No.(SSTD020##): SSTD020GP Date Analyzed: 07/10/2015

Lab File ID (Standard): GCP01S20 Time Analyzed: 09:42

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	1179846		11.53		1223555		15.73		1048038		18.09	
	UPPER LIMIT	2359692		12.03		2447110		16.23		2096076		18.59	
	LOWER LIMIT	589923		11.03		611778		15.23		524019		17.59	
	EPA SAMPLE NO.												
01	F9M21	1216627		11.52		1179960		15.73		674408		18.09	
02	F9M22	835456		11.52		824824		15.73		580830		18.07	
03	F9M24	1053193		11.52		1069847		15.73		746501		18.08	
04	F9M25	1130258		11.52		1049247		15.73		539021		18.08	
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.

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

Lab Name: ALS Environmental Contract: EPW11037

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

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

EPA Sample No.(SSTD020##): SSTD020G1 Date Analyzed: 07/10/2015

Lab File ID (Standard): GCP08S20 Time Analyzed: 13:21

Instrument ID: 5975-G

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD	351129		4.87		1308949		6.27		728122		8.90	
	UPPER LIMIT	702258		5.37		2617898		6.77		1456244		9.40	
	LOWER LIMIT	175565		4.37		654475		5.77		364061		8.40	
	EPA SAMPLE NO.												
01	F9M26	313968		4.87		1171933		6.26		678157		8.89	
02	F9M27	338723		4.87		1265220		6.26		728533		8.89	
03	F9M28	339258		4.87		1218765		6.26		714859		8.89	
04	F9M29	329399		4.87		1226285		6.26		711024		8.89	
05	F9M30	351363		4.87		1308660		6.27		744954		8.90	
06	F9M31	331580		4.87		1228705		6.26		694932		8.89	
07	F9M32	308974		4.87		1149237		6.26		667942		8.89	
08	F9M33	321341		4.87		1193925		6.26		703681		8.89	
09	F9M34	324879		4.87		1204004		6.26		687583		8.89	
10	F9M35	325203		4.87		1182248		6.26		676744		8.89	
11	F9M37	355871		4.87		1322305		6.26		767186		8.89	
12	F9M38	338950		4.87		1268463		6.26		708120		8.89	
13	F9M39	332758		4.87		1264406		6.26		736827		8.89	
14	F9M40	321685		4.87		1174672		6.26		672936		8.89	
15	F9M41	350367		4.87		1313516		6.26		756640		8.89	
16													
17													
18													
19													
20													
21													
22													

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

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

Lab Name: ALS Environmental Contract: EPW11037

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

EPA Sample No.(SSTD020##): SSTD020G1 Date Analyzed: 07/10/2015

Lab File ID (Standard): GCP08S20 Time Analyzed: 13:21

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		1171319		11.53		1170798		15.73		1017729		18.09	
	UPPER LIMIT		2342638		12.03		2341596		16.23		2035458		18.59	
	LOWER LIMIT		585660		11.03		585399		15.23		508865		17.59	
	EPA SAMPLE NO.													
01	F9M26		1131543		11.52		1045161		15.73		680790		18.09	
02	F9M27		1243213		11.52		1207200		15.73		963819		18.08	
03	F9M28		1228906		11.52		1199706		15.73		903781		18.08	
04	F9M29		1197735		11.52		1141429		15.73		905892		18.08	
05	F9M30		1221186		11.53		1136326		15.73		912937		18.09	
06	F9M31		1126867		11.52		1075396		15.73		700905		18.08	
07	F9M32		1118112		11.52		1061445		15.73		608420		18.08	
08	F9M33		1163221		11.52		1158870		15.73		784946		18.08	
09	F9M34		1156451		11.52		1128160		15.73		680481		18.07	
10	F9M35		1085099		11.52		1067375		15.73		684416		18.07	
11	F9M37		1230931		11.52		1184609		15.73		705398		18.08	
12	F9M38		1177880		11.52		1110180		15.73		666215		18.07	
13	F9M39		1201602		11.52		1136234		15.73		681477		18.07	
14	F9M40		1104870		11.52		1034521		15.73		621099		18.08	
15	F9M41		1234191		11.52		1176421		15.73		697609		18.07	
16														
17														
18														
19														
20														
21														
22														

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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

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

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M21

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GCP02F01

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

% Moisture: 18. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	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	400	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	400	U
83-32-9	Acenaphthene	210	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M21

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GCP02F01

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

% Moisture: 18. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	400	U
100-02-7	4-Nitrophenol	400	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	400	U
534-52-1	4,6-Dinitro-2-methylphenol	400	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	400	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	23.	J
129-00-0	Pyrene	35.	J
85-68-7	Butylbenzylphthalate	210	U
91-94-1	3,3'-Dichlorobenzidine	210	U
56-55-3	Benzo(a)anthracene	20.	J
218-01-9	Chrysene	32.	J
117-81-7	Bis(2-ethylhexyl)phthalate	30.	J
117-84-0	Di-n-octylphthalate	210	U
205-99-2	Benzo(b)fluoranthene	32.	J
207-08-9	Benzo(k)fluoranthene	210	U
50-32-8	Benzo(a)pyrene	61.	J
193-39-5	Indeno(1,2,3-cd)pyrene	21.	J
53-70-3	Dibenzo(a,h)anthracene	210	U
191-24-2	Benzo(g,h,i)perylene	25.	J
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.: F9M21

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GCP02F01

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

% Moisture: 18. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 1.0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Propane, 2-chloro-	2.14	170	J
02	814-78-8	3-Buten-2-one, 3-methyl-	2.20	300	JN
03		Unknown 2-Propanone, 1-chloro-	2.28	270	J
04		Unknown Methacrylamide	2.81	330	J
05		Unknown 2-Pentanone, 4-hydroxy-	3.30	700	JB
06		Unknown Guanidine	3.52	17000	J
07		Unknown 2-Nonanone	4.08	320	J
08		Unknown 2-Methylbutanoic anhydride	4.19	250	J
09		Unknown 1H-Pyrrole-2,5-dione	4.28	1200	J
10		Unknown Ethanol, 2-(2-methoxyethoxy)-	4.69	230	J
11		Unknown 4H-Imidazol-4-one, 2-amino-1,5-dihydro-	5.00	210	J
12		Unknown 2-Propanone, 1-hydroxy-	5.11	1300	J
13		Unknown Bicyclo[3.1.1]heptane, 2,6,6-trimethyl-	11.72	150	J
14	118-56-9	Homosalate	12.25	170	JN
15	1000333-19-5	cis-9-Hexadecenoic acid	12.59	210	JN
16	57-10-3	n-Hexadecanoic acid	12.67	690	JN
17	638-58-4	Tetradecanamide	12.78	140	JN
18		Unknown Phytol	13.87	140	J
19		Unknown Dodecanamide	14.16	380	J
20	301-02-0	9-Octadecenamide, (Z)-	15.08	2200	JNB
21	301-02-0	9-Octadecenamide, (Z)-	16.99	620	JN
22	111-02-4	Squalene	17.16	410	JN
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	5300	J

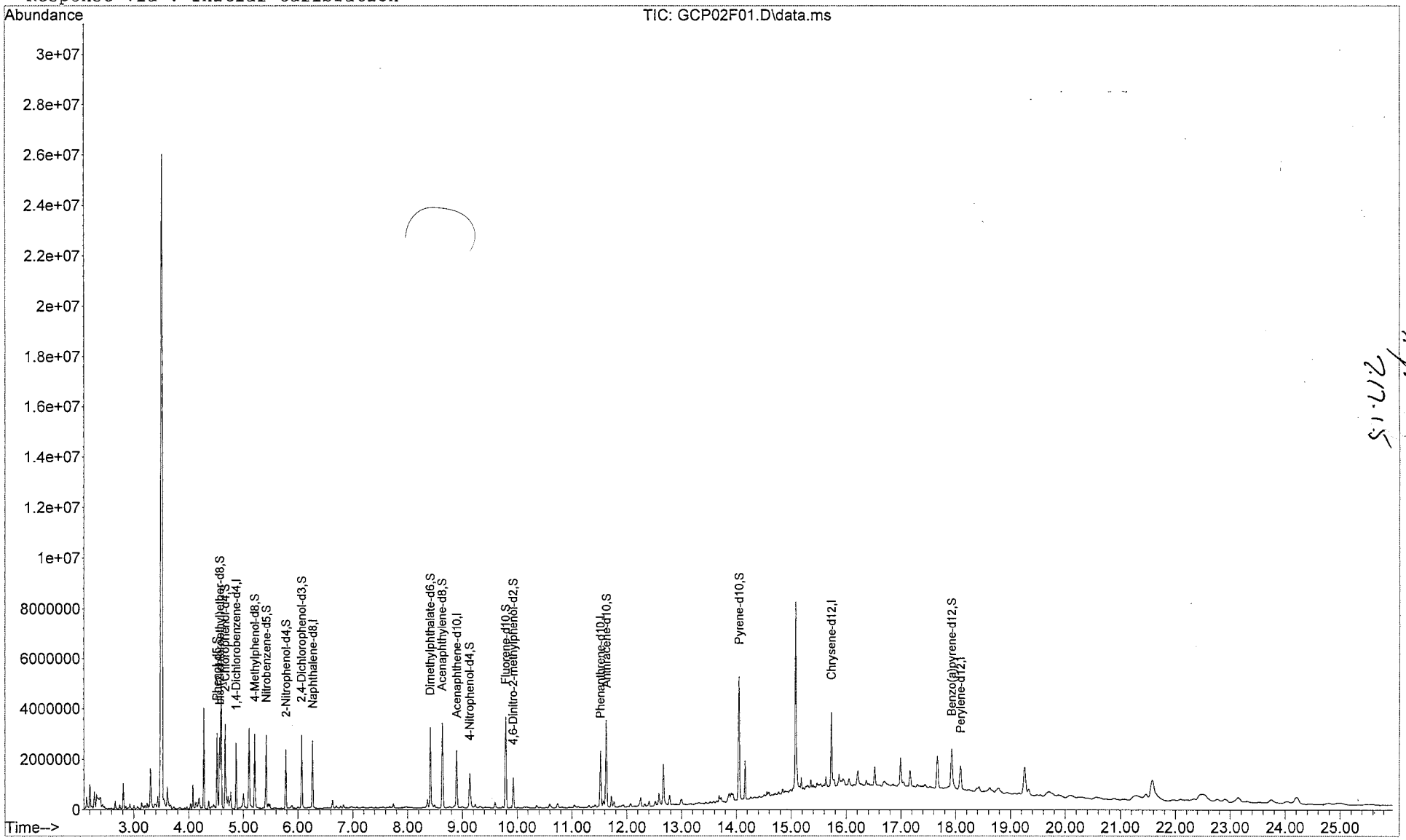
[2] EPA-designated Registry Number.

Quantitation Report

Data File : R:\G\2015\JUL15\10JUL15\GCP02F01.D Vial: 2
Acq On : 07/10/2015 10:20 Operator: TJM
Sample : 1515542001 F9M21 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jul 17 08:19:25 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\10JUL15\GCP02F01.D Vial: 2
Acq On : 07/10/2015 10:20 Operator: TJM
Sample : 1515542001 F9M21 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 17 08:19:25 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	340935	20.00 ug/ml
16) Naphthalene-d8	6.27	136	1261256	20.00 ug/ml
33) Acenaphthene-d10	8.90	164	721453	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1216627	20.00 ug/ml
73) Chrysene-d12	15.73	240	1179960	20.00 ug/ml
81) Perylene-d12	18.09	264	674408	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.52	99	910358	30.684ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	644724	27.885ug/mL
7) 2-Chlorophenol-d4	4.67	132	772977	30.857ug/ml
13) 4-Methylphenol-d8	5.21	113	590786	29.771ug/mL
17) Nitrobenzene-d5	5.42	128	337574	30.467ug/ml
21) 2-Nitrophenol-d4	5.78	143	367984	31.421ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	592991	32.518ug/mL
28) 4-Chloroaniline-d4	6.37	131	883	0.044ug/mL
42) Dimethylphthalate-d6	8.42	166	1606697	35.515ug/mL
45) Acenaphthylene-d8	8.63	160	2004600	32.606ug/mL
50) 4-Nitrophenol-d4	9.13	143	307632	33.333ug/mL
57) Fluorene-d10	9.79	176	1346210	34.845ug/mL
61) 4,6-Dinitro-2-methylphenol	9.93	200	198857	23.028ug/mL
69) Anthracene-d10	11.63	188	2061224	31.948ug/mL
75) Pyrene-d10	14.05	212	2096251	35.599ug/mL
86) Benzo(a)pyrene-d12	17.93	264	1026332	31.759ug/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	6.83	113	~~3877~~	~~0.546ug/ml~~ 1
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

TJM 7.20.15

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

Quantitation Report

Data File : R:\G\2015\JUL15\10JUL15\GCP02F01.D Vial: 2
Acq On : 07/10/2015 10:20 Operator: TJM
Sample : 1515542001 F9M21 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 17 08:19:25 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

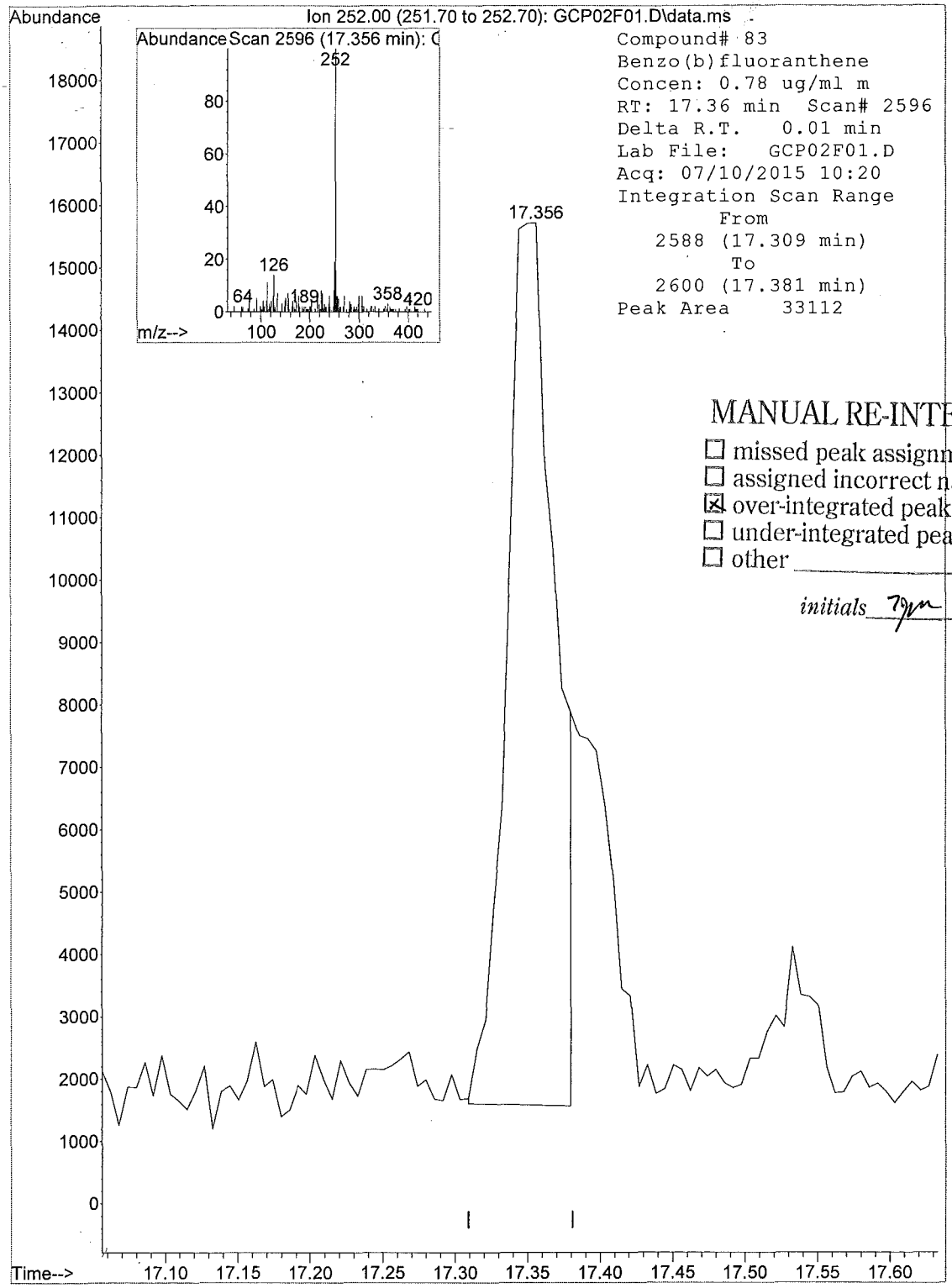
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44)	Acenaphthylene	0.00	152		Not Detected	
46)	3-Nitroaniline	0.00	138		Not Detected	
47)	Acenaphthene	0.00	153		Not Detected	
48)	2,4-Dinitrophenol	0.00	184		Not Detected	
49)	4-Nitrophenol	0.00	109		Not Detected	
51)	Dibenzofuran	0.00	168		Not Detected	
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	13.72	202	39755	0.556ug/ml	89
74)	Pyrene	14.07	202	64900	0.864ug/ml	15
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	15.72	228	34419	0.481ug/ml	25
79)	Chrysene	15.76	228	51007	0.789ug/ml	82
80)	Bis-(2-ethylhexyl)phthalat	15.79	149	43062	0.738ug/ml	96
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	17.36	252	33112	0.784ug/ml m	92
84)	Benzo(k)fluoranthene	0.00	252		Not Detected	
85)	Benzo(a)pyrene	17.86	252	59868	1.506ug/ml	99
87)	Indeno(1,2,3-c,d)pyrene	20.73	276	17997	0.512ug/ml	56
88)	Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89)	Benzo(g,h,i)perylene	21.54	276	21481	0.621ug/ml	80

7.17.15

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

00026

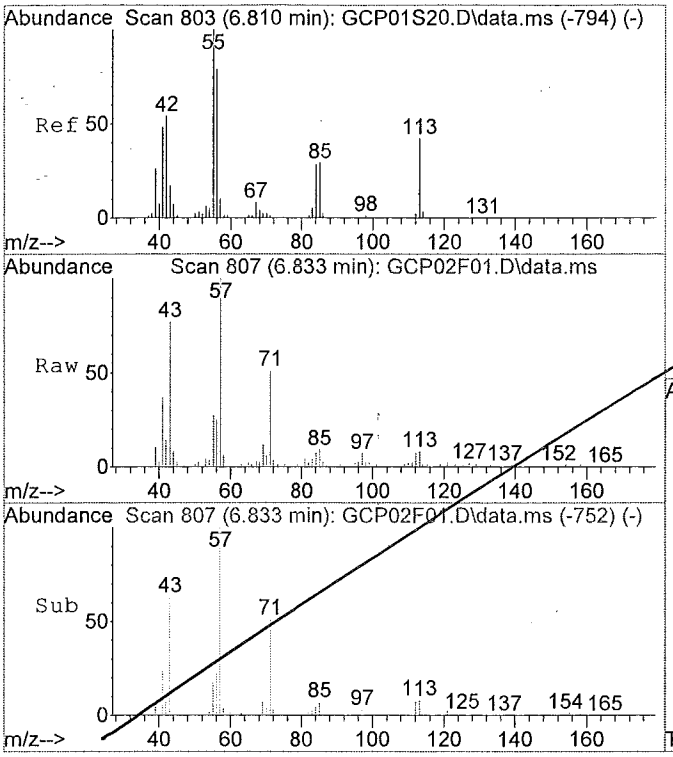
MANUAL INTEGRATION FOR Benzo(b)fluoranthene



MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☒ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials TJM *date* 7.17.15

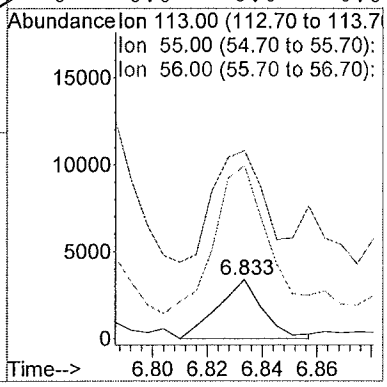


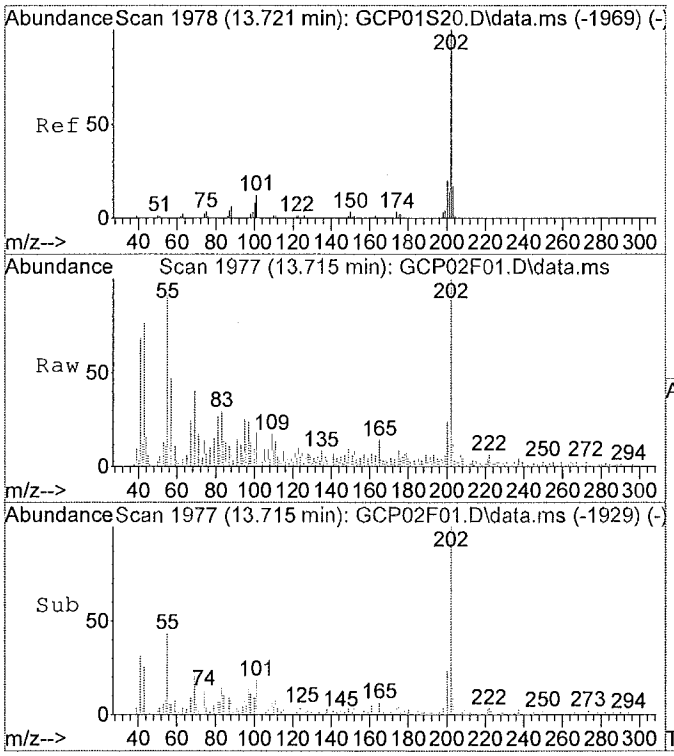
#30
Caprolactam
Concen: 0.55 ug/ml
RT: 6.83 min Scan# 807
Delta R.T. 0.02 min
Lab File: GCP02F01.D
Acq: 07/10/2015 10:20

7.20.15

Tgt Ion:113 Resp: 3877

Ion	Ratio	Lower	Upper
113	100		
55	219.1	108.6	201.8#
56	316.9	81.1	150.7#
0	0.0	0.0	0.0

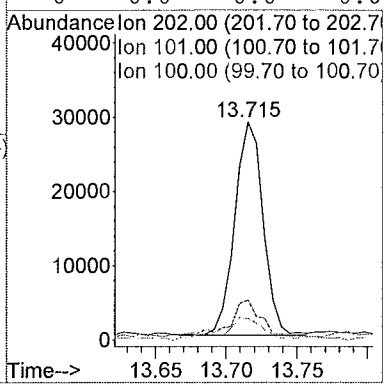


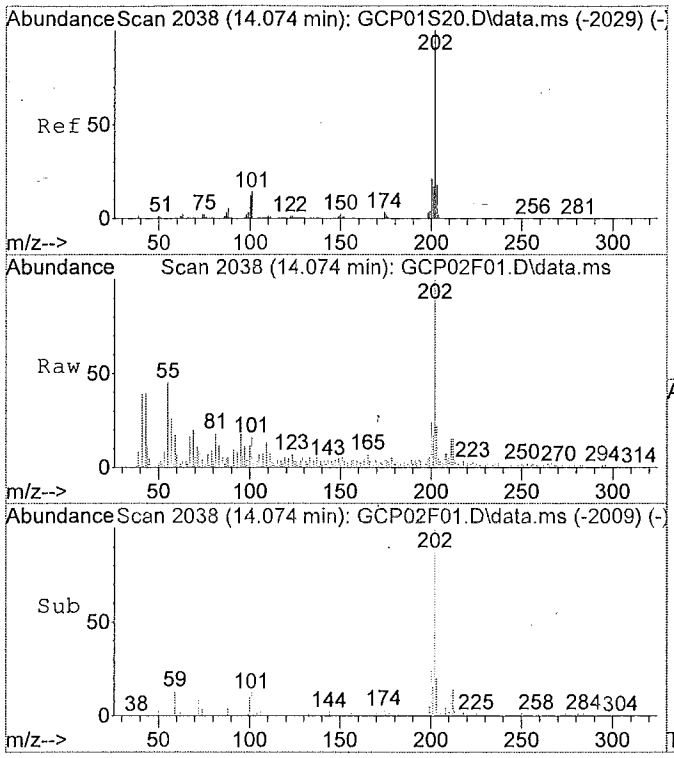


#72
Fluoranthene
Concen: 0.56 ug/ml
RT: 13.72 min Scan# 1977
Delta R.T. -0.01 min
Lab File: GCP02F01.D
Acq: 07/10/2015 10:20

Tgt Ion:202 Resp: 39755

Ion	Ratio	Lower	Upper
202	100		
101	19.7	10.5	19.5#
100	14.3	7.4	13.8#
0	0.0	0.0	0.0

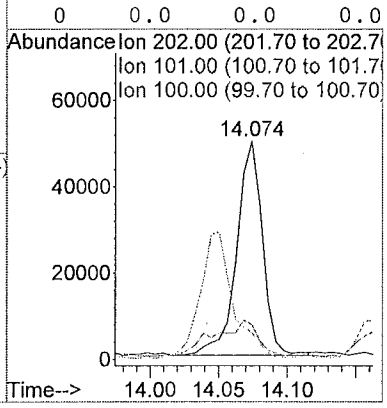


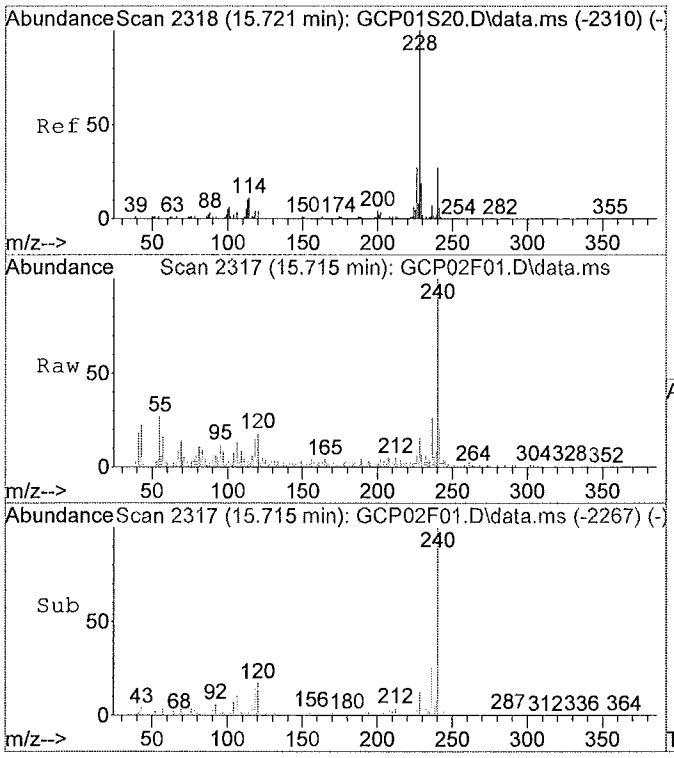


#74
Pyrene
Concen: 0.86 ug/ml
RT: 14.07 min Scan# 2038
Delta R.T. -0.00 min
Lab File: GCP02F01.D
Acq: 07/10/2015 10:20

Tgt Ion:202 Resp: 64900

Ion	Ratio	Lower	Upper
202	100		
101	31.3	12.2	22.7#
100	76.4	10.1	18.7#
0	0.0	0.0	0.0

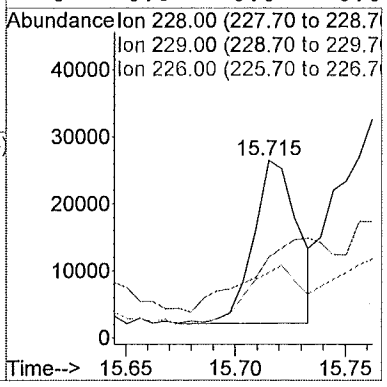


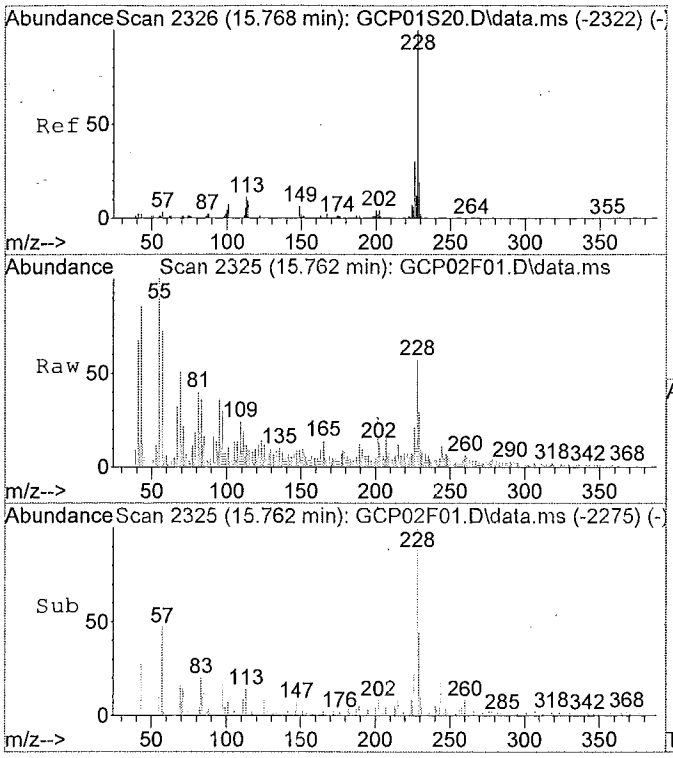


#78
Benzo(a)anthracene
Concen: 0.48 ug/ml
RT: 15.72 min Scan# 2317
Delta R.T. -0.01 min
Lab File: GCP02F01.D
Acq: 07/10/2015 10:20

Tgt Ion:228 Resp: 34419

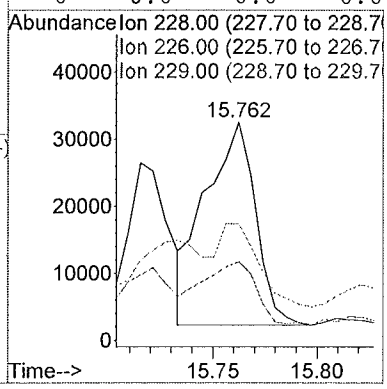
Ion	Ratio	Lower	Upper
228	100		
229	78.9	13.7	25.5#
226	43.2	18.2	33.8#
0	0.0	0.0	0.0

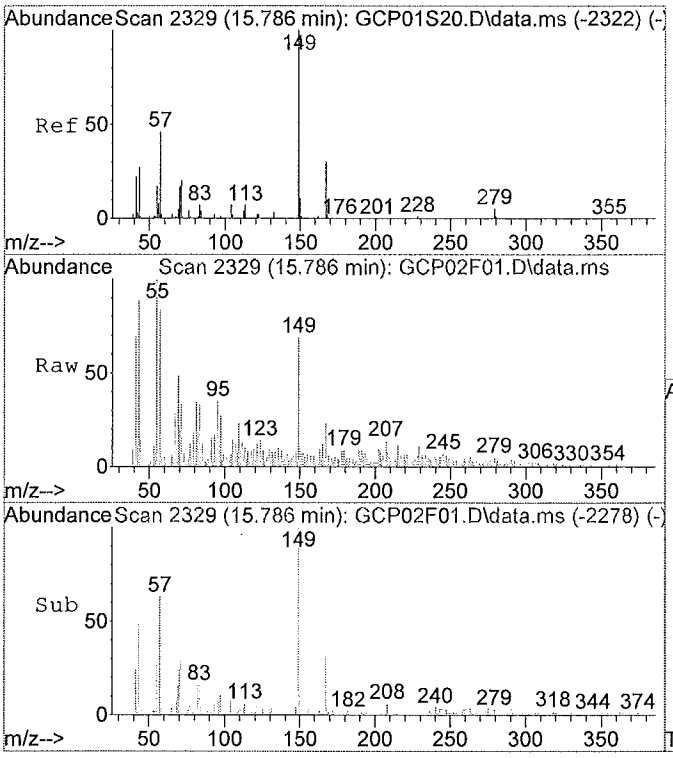




#79
Chrysene
Concen: 0.79 ug/ml
RT: 15.76 min Scan# 2325
Delta R.T. -0.01 min
Lab File: GCP02F01.D
Acq: 07/10/2015 10:20

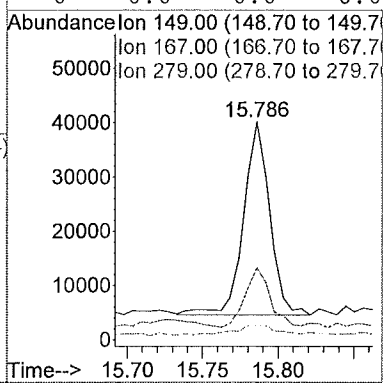
Tgt Ion:228	Resp:	51007	
Ion	Ratio	Lower	Upper
228	100		
226	32.5	20.1	37.3
229	34.6	13.7	25.5#
0	0.0	0.0	0.0

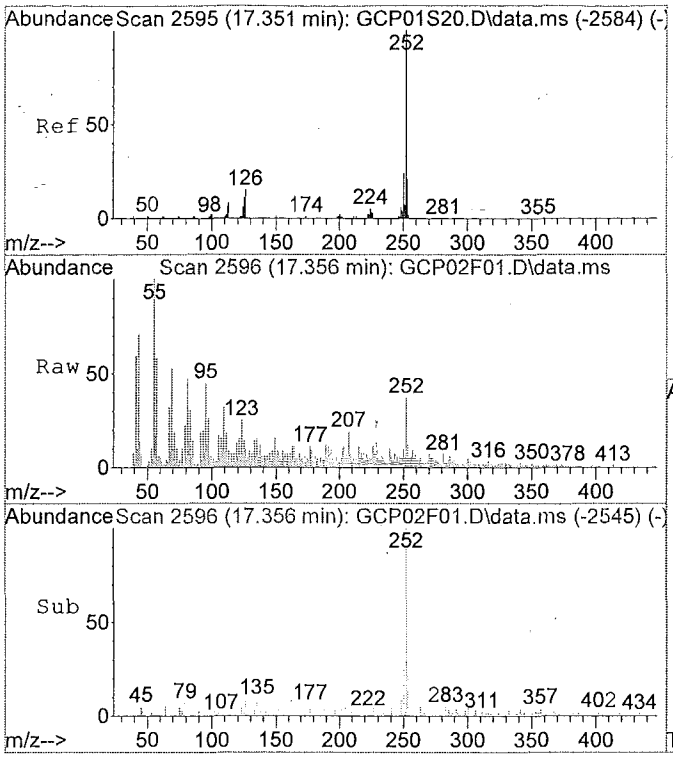




#80
Bis-(2-ethylhexyl)phthalate
Concen: 0.74 ug/ml
RT: 15.79 min Scan# 2329
Delta R.T. -0.00 min
Lab File: GCP02F01.D
Acq: 07/10/2015 10:20

Tgt Ion:149	Resp:	43062	
Ion	Ratio	Lower	Upper
149	100		
167	29.3	22.0	40.8
279	7.9	5.0	9.2
0	0.0	0.0	0.0

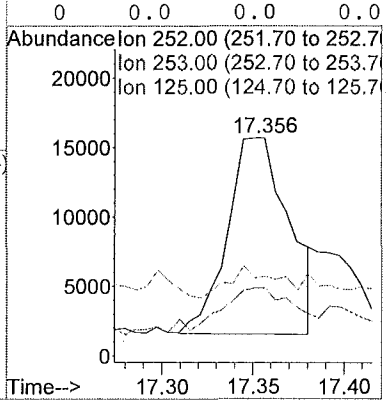


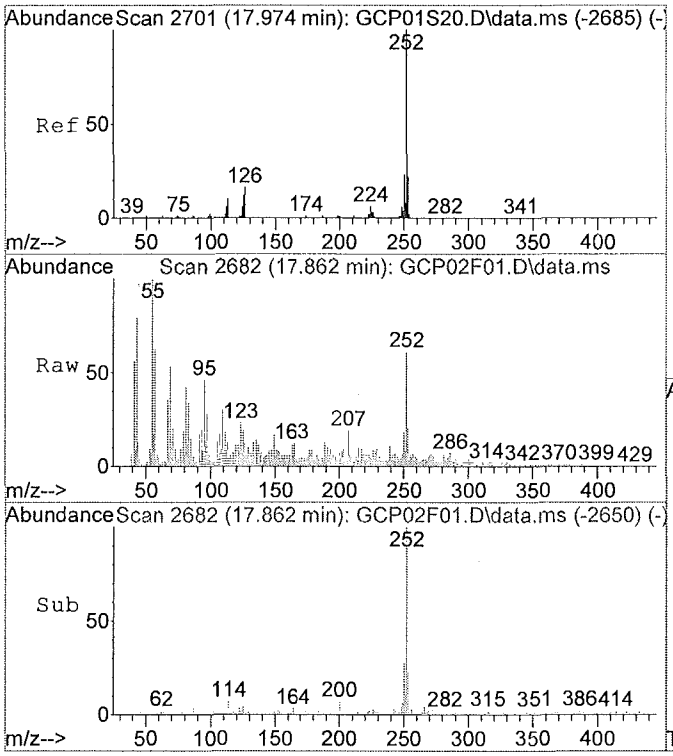


#83
Benzo(b)fluoranthene
Concen: 0.78 ug/ml m
RT: 17.36 min Scan# 2596
Delta R.T. 0.01 min
Lab File: GCP02F01.D
Acq: 07/10/2015 10:20

Tgt Ion:252 Resp: 33112

Ion	Ratio	Lower	Upper
252	100		
253	30.3	15.1	28.1#
125	11.5	10.6	19.8
0	0.0	0.0	0.0

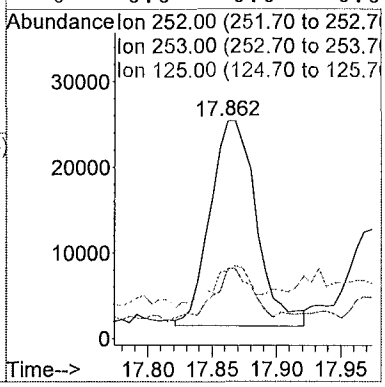


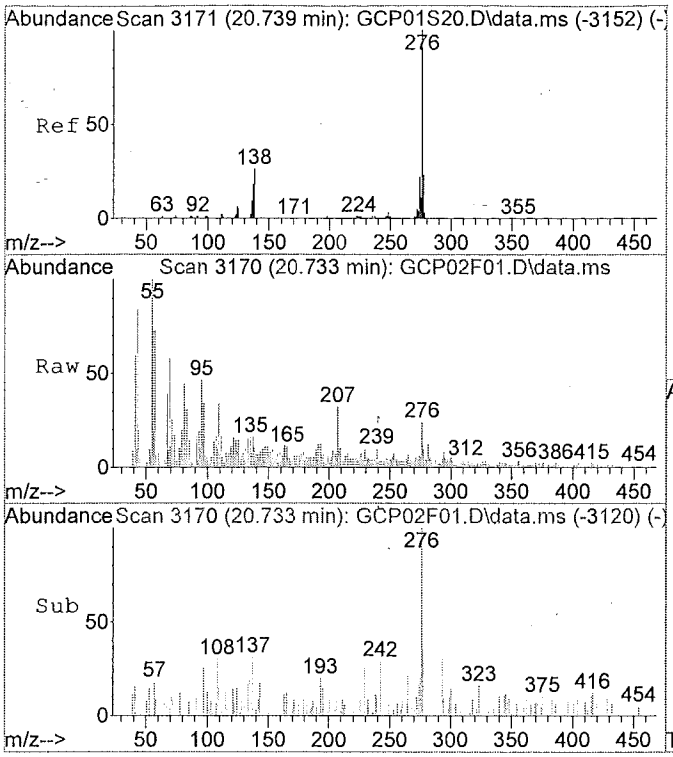


#85
Benzo(a)pyrene
Concen: 1.51 ug/ml
RT: 17.86 min Scan# 2682
Delta R.T. -0.11 min
Lab File: GCP02F01.D
Acq: 07/10/2015 10:20

Tgt Ion:252 Resp: 59868

Ion	Ratio	Lower	Upper
252	100		
253	22.2	15.2	28.2
125	17.3	11.8	21.8
0	0.0	0.0	0.0

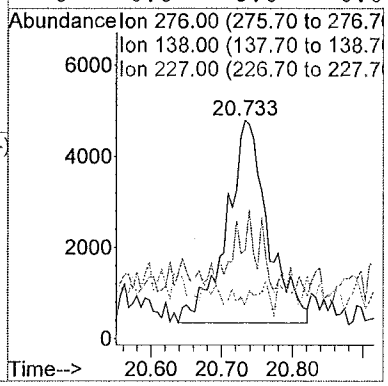


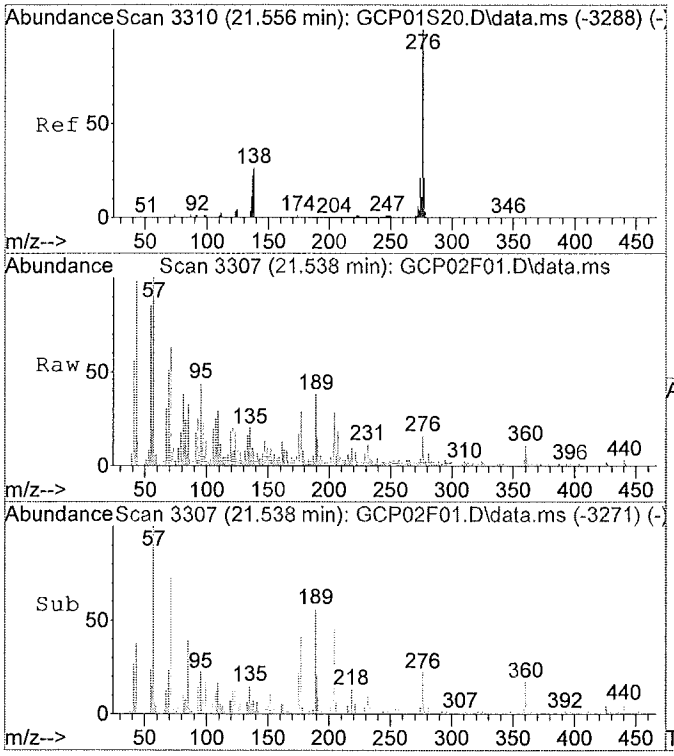


#87
Indeno(1,2,3-c,d)pyrene
Concen: 0.51 ug/ml
RT: 20.73 min Scan# 3170
Delta R.T. -0.01 min
Lab File: GCP02F01.D
Acq: 07/10/2015 10:20

Tgt Ion:276 Resp: 17997

Ion	Ratio	Lower	Upper
276	100		
138	7.6	22.3	41.5#
227	1.3	0.1	0.1#
0	0.0	0.0	0.0

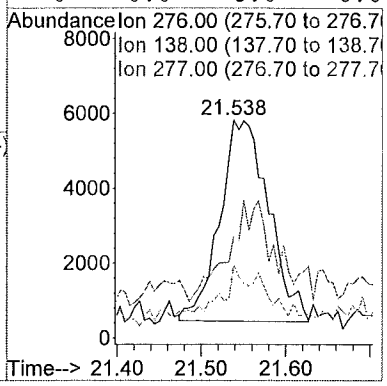




#89
Benzo(g,h,i)perylene
Concen: 0.62 ug/ml
RT: 21.54 min Scan# 3307
Delta R.T. -0.02 min
Lab File: GCP02F01.D
Acq: 07/10/2015 10:20

Tgt Ion:276 Resp: 21481

Ion	Ratio	Lower	Upper
276	100		
138	44.1	24.1	44.7
277	12.0	16.7	30.9#
0	0.0	0.0	0.0



Library Search Compound Report

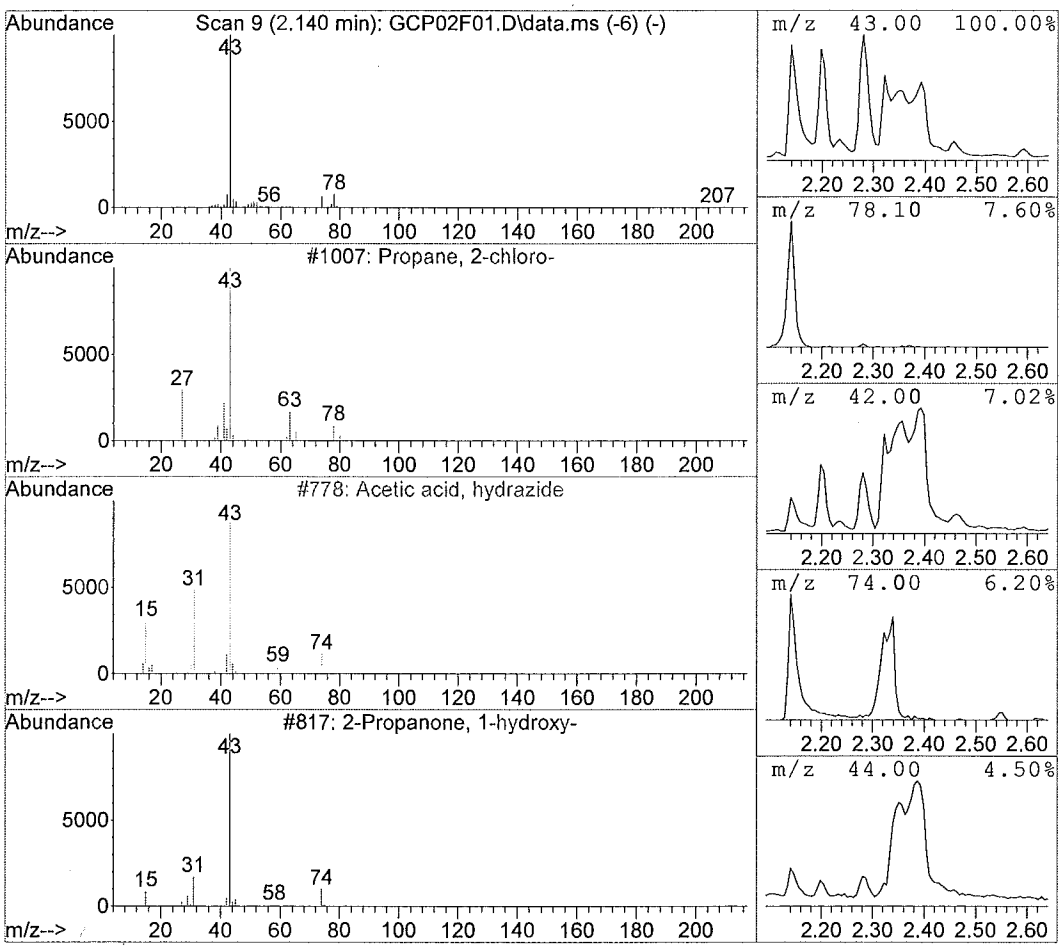
Data File : R:\G\2015\JUL15\10JUL15\GCP02F01.D
Acq On : 07/10/2015 10:20
Sample : 1515542001 F9M21
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 2
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
2.14	4.25 ug/ml	517766	1,4-Dichlorobenzene-d4	2438587

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propane, 2-chloro-	1007	000075-29-6	5.00
2	Acetic acid, hydrazide	778	001068-57-1	5.00
3	2-Propanone, 1-hydroxy-	817	000116-09-6	5.00
4	Ethanamine, 2-methoxy-	889	000109-85-3	4.00
5	Hydrogen azide	70	007782-79-8	4.00



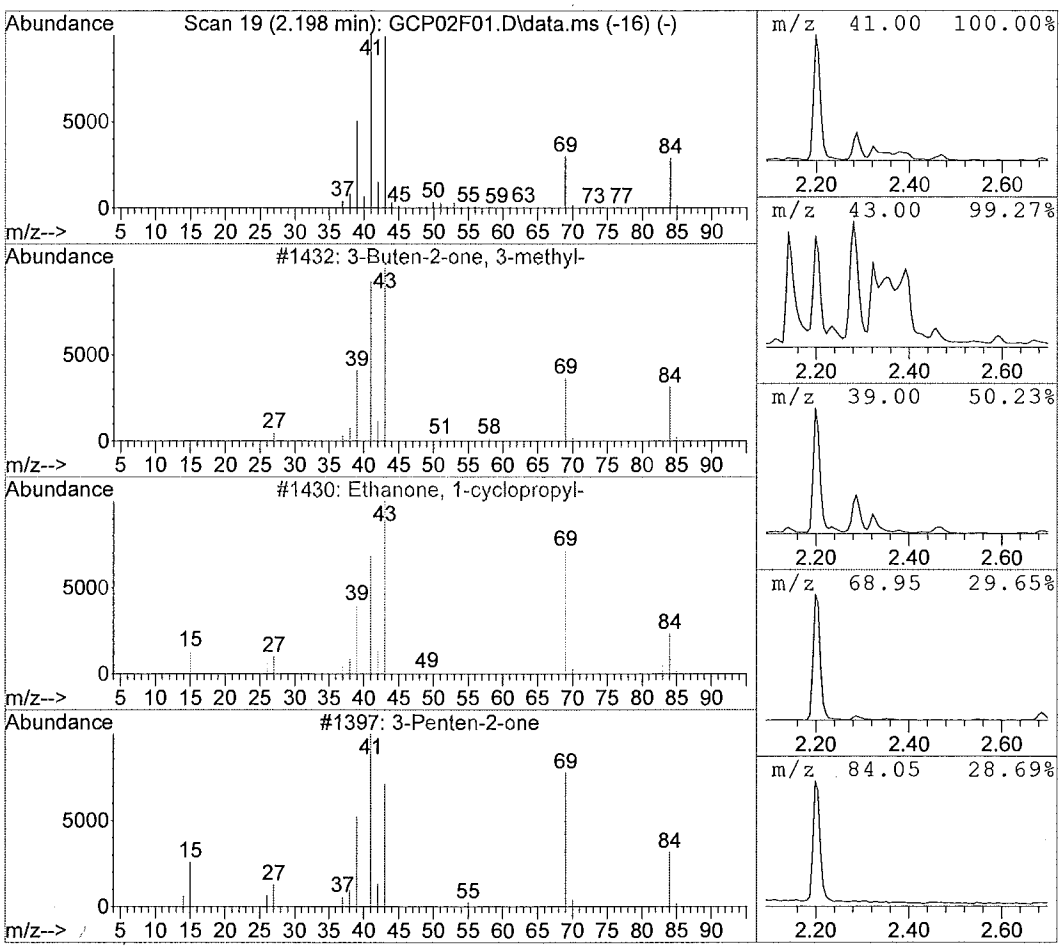
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP02F01.D Vial: 2
Acq On : 07/10/2015 10:20 Operator: TJM
Sample : 1515542001 F9M21 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	7.28 ug/ml	887929	1,4-Dichlorobenzene-d4	2438587

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Buten-2-one, 3-methyl-	1432	000814-78-8	90.00
2	Ethanone, 1-cyclopropyl-	1430	000765-43-5	80.00
3	3-Penten-2-one	1397	000625-33-2	56.00
4	(Z)-1,3-Butadien-1-ol	548	070415-58-6	40.00
5	Propane, 1-nitro-	2166	000108-03-2	32.00



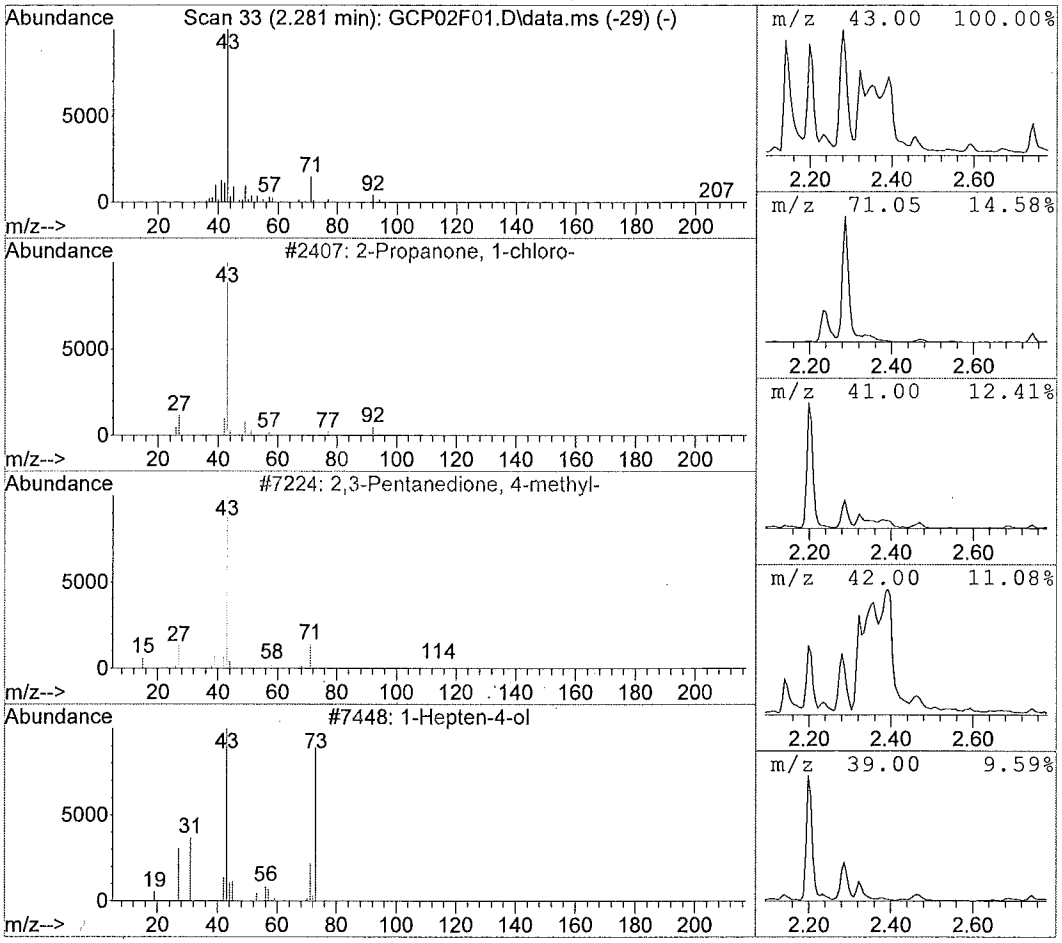
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP02F01.D Vial: 2
Acq On : 07/10/2015 10:20 Operator: TJM
Sample : 1515542001 F9M21 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	6.65 ug/ml	811351	1,4-Dichlorobenzene-d4	2438587

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propanone, 1-chloro-	2407	000078-95-5	68.00
2	2,3-Pentanedione, 4-methyl-	7224	007493-58-5	25.00
3	1-Hepten-4-ol	7448	003521-91-3	9.00
4	Butane	233	000106-97-8	9.00
5	2,3-Hexanedione	7173	003848-24-6	9.00



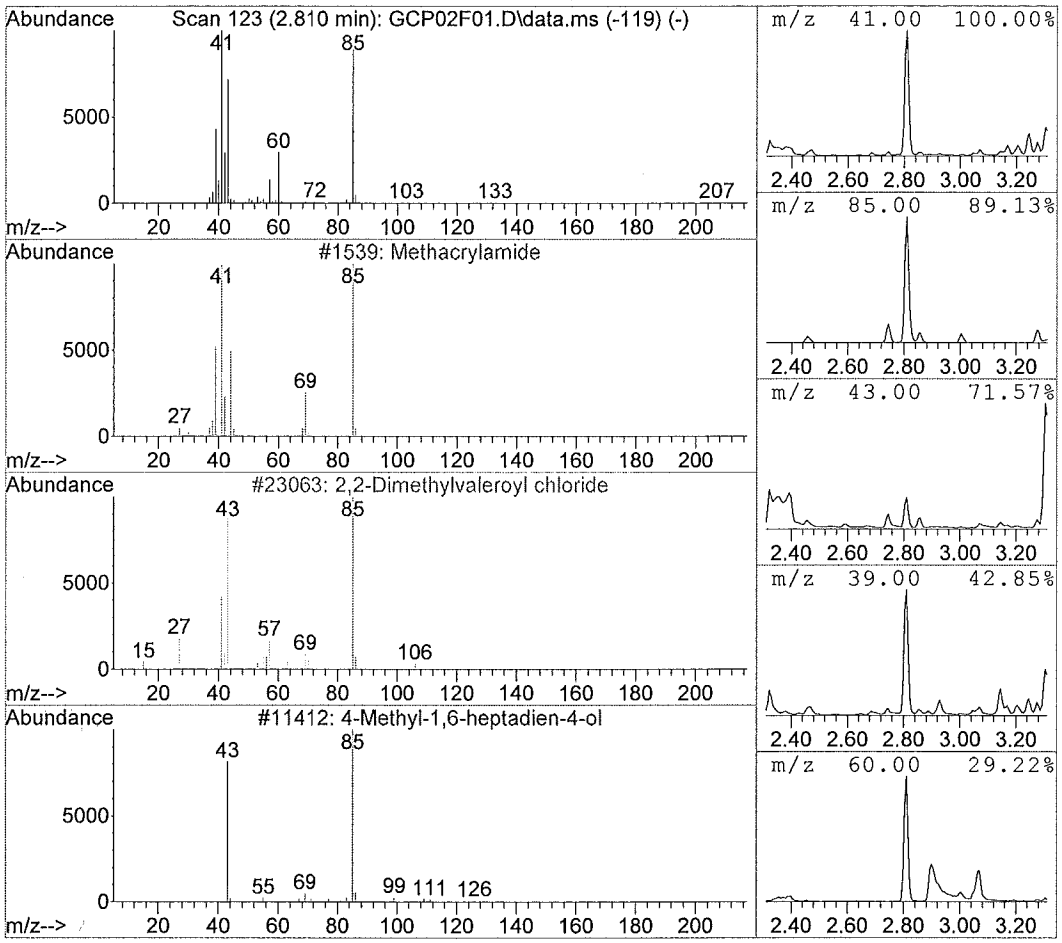
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP02F01.D Vial: 2
Acq On : 07/10/2015 10:20 Operator: TJM
Sample : 1515542001 F9M21 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	8.02 ug/ml	978035	1,4-Dichlorobenzene-d4	2438587

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Methacrylamide	1539	000079-39-0	53.00
2	2,2-Dimethylvaleroyl chloride	23063	015721-22-9	23.00
3	4-Methyl-1,6-heptadien-4-ol	11412	025201-40-5	23.00
4	Sulfurous acid, hexyl pentyl ester	90252	1000309-14-1	23.00
5	Thiazole	1534	000288-47-1	17.00



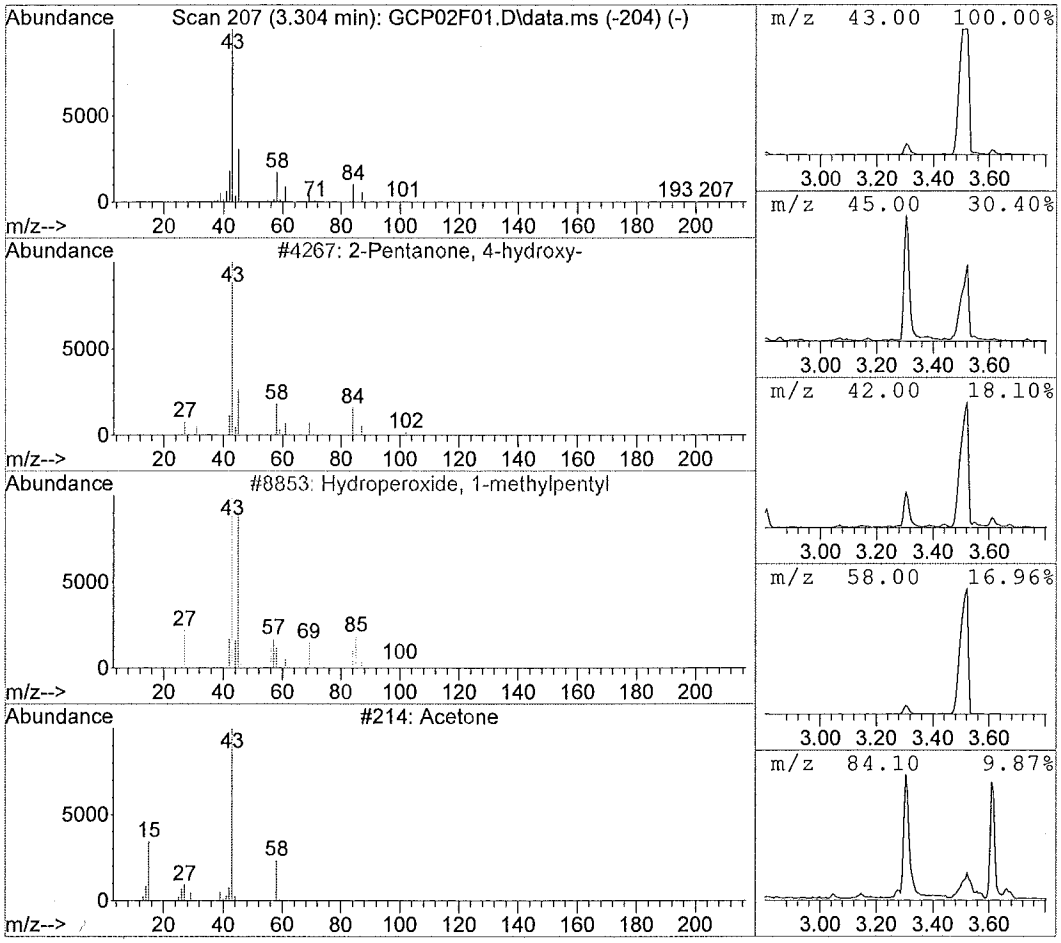
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP02F01.D Vial: 2
Acq On : 07/10/2015 10:20 Operator: TJM
Sample : 1515542001 F9M21 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	17.11 ug/ml	2086178	1,4-Dichlorobenzene-d4	2438587

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	33.00
2	Hydroperoxide, 1-methylpentyl	8853	024254-55-5	33.00
3	Acetone	214	000067-64-1	9.00
4	1-Tetrazol-2-ylethanone	6198	051410-11-8	9.00
5	2-Pentanone, 5-(acetyloxy)-	20664	005185-97-7	9.00



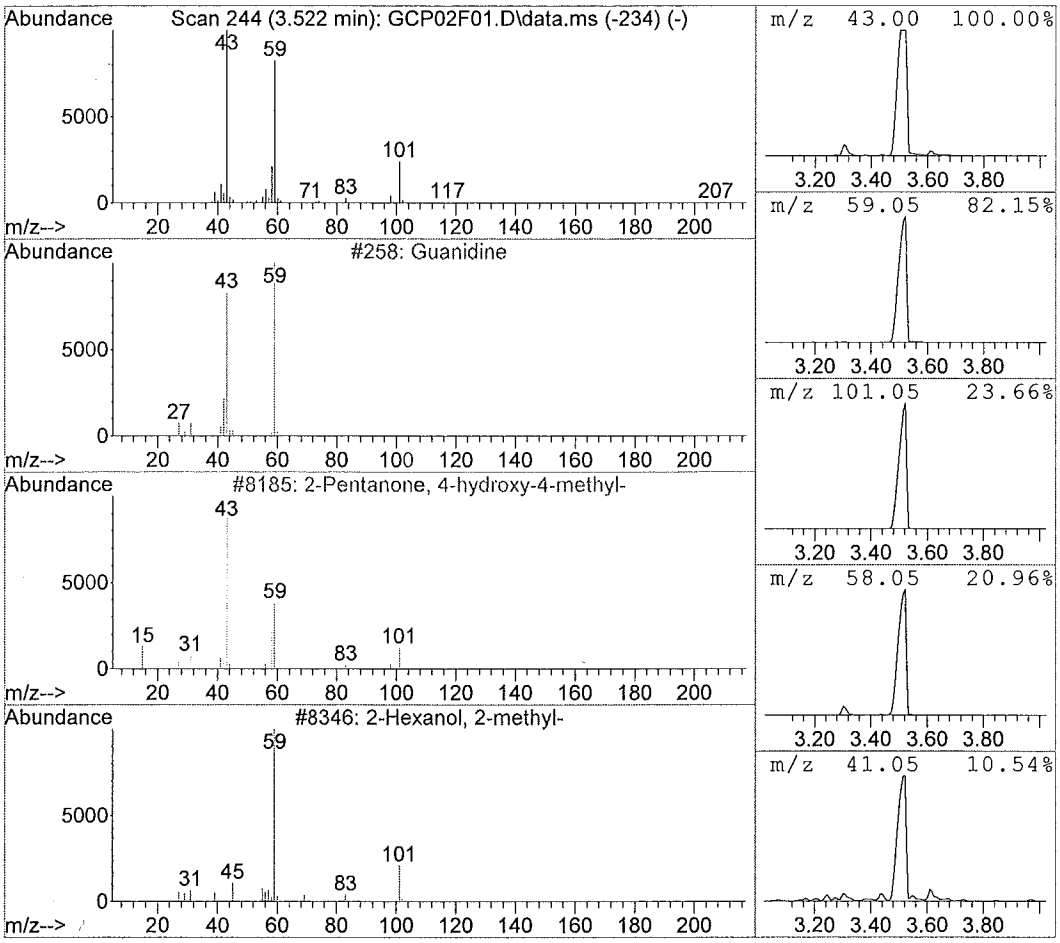
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP02F01.D Vial: 2
Acq On : 07/10/2015 10:20 Operator: TJM
Sample : 1515542001 F9M21 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
3.52	421.67 ug/ml	51414133	1,4-Dichlorobenzene-d4	2438587

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Guanidine	258	000113-00-8	52.00
2	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	50.00
3	2-Hexanol, 2-methyl-	8346	000625-23-0	36.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
5	Formamide, N,N-diethyl-	4094	000617-84-5	10.00



Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP02F01.D
Acq On : 07/10/2015 10:20
Sample : 1515542001 F9M21
Misc : . SOIL SOM
MS Integration Params: rteint.p

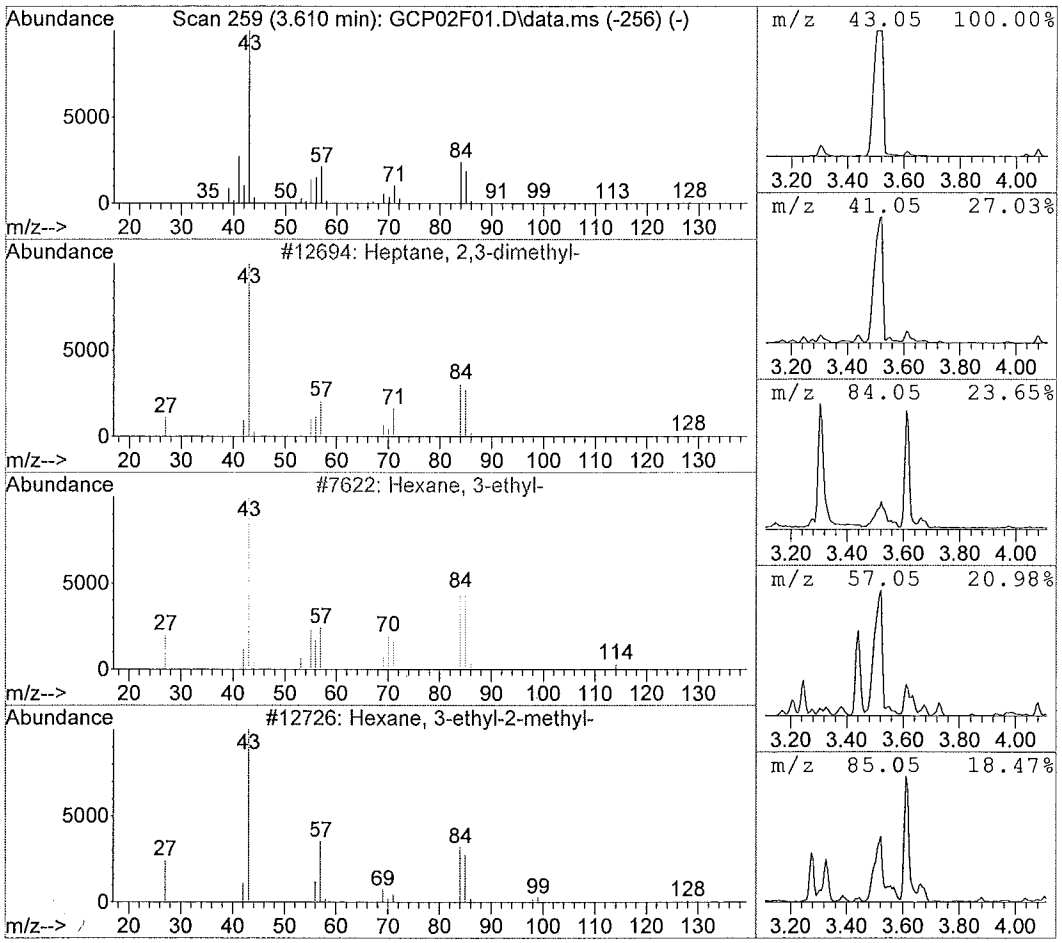
Vial: 2
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

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
3.61	8.05 ug/ml	982050	1,4-Dichlorobenzene-d4	2438587

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12694	003074-71-3	86.00
2	Hexane, 3-ethyl-	7622	000619-99-8	74.00
3	Hexane, 3-ethyl-2-methyl-	12726	016789-46-1	64.00
4	Decane, 5,6-dimethyl-	38341	001636-43-7	64.00
5	Nonane, 4-ethyl-5-methyl-	38351	001632-71-9	56.00

BA



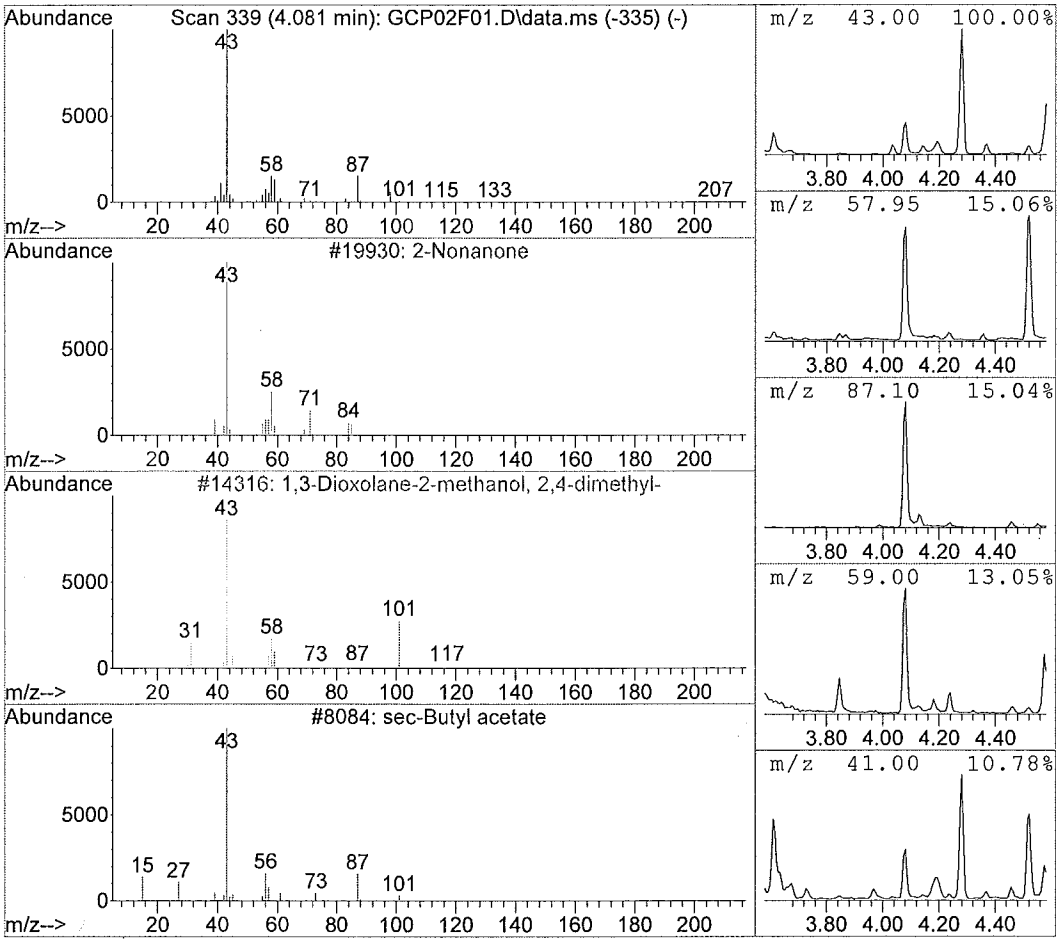
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP02F01.D Vial: 2
Acq On : 07/10/2015 10:20 Operator: TJM
Sample : 1515542001 F9M21 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
4.08	7.85 ug/ml	957282	1,4-Dichlorobenzene-d4	2438587

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Nonanone	19930	000821-55-6	40.00
2	1,3-Dioxolane-2-methanol, 2,4-dimet	14316	053951-43-2	33.00
3	sec-Butyl acetate	8084	000105-46-4	25.00
4	TATP	79768	017088-37-8	17.00
5	1-Pentanamine	1907	000110-58-7	9.00



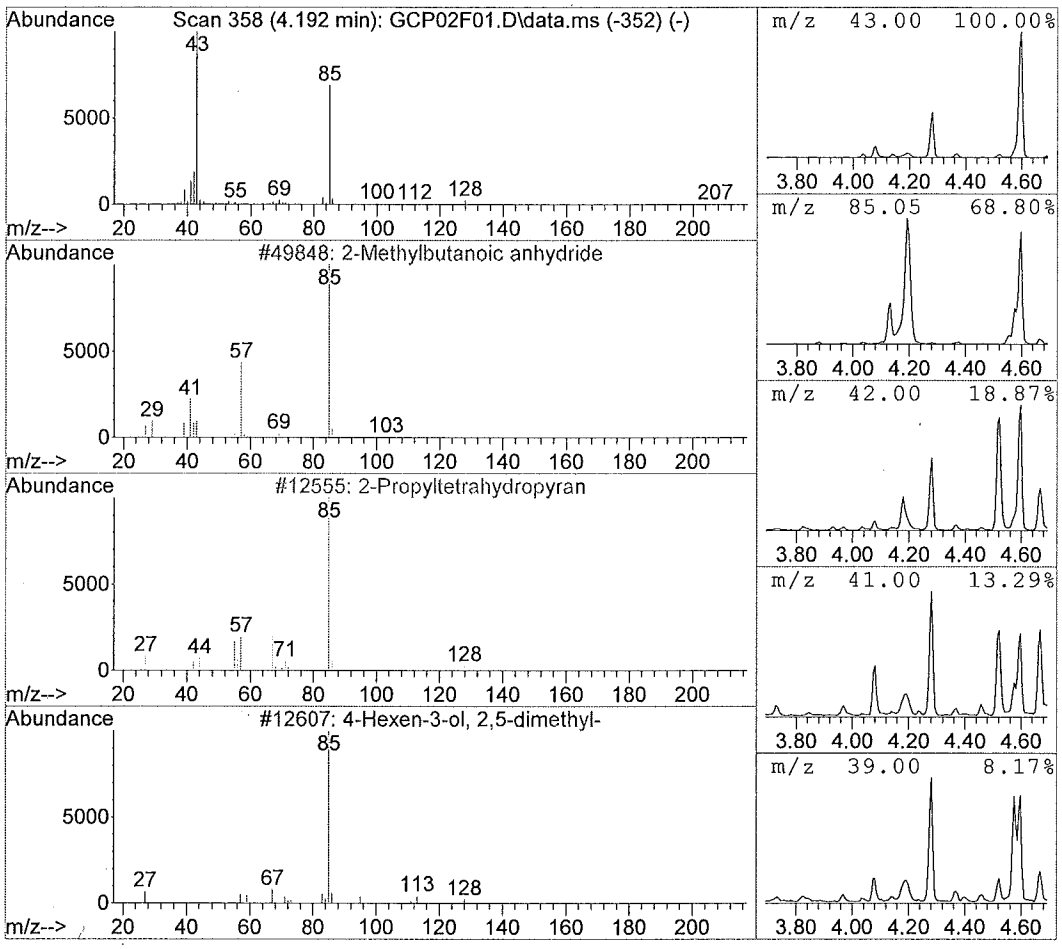
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP02F01.D Vial: 2
Acq On : 07/10/2015 10:20 Operator: TJM
Sample : 1515542001 F9M21 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
4.19	6.04 ug/ml	736604	1,4-Dichlorobenzene-d4	2438587

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Methylbutanoic anhydride	49848	001468-39-9	25.00
2	2-Propyltetrahydropyran	12555	003857-17-8	9.00
3	4-Hexen-3-ol, 2,5-dimethyl-	12607	060703-31-3	9.00
4	2-Pyrrolidinone	1541	000616-45-5	9.00
5	3-Acetoxy-2-trifluoromethylbut-3-en	94497	1000222-26-4	9.00



Library Search Compound Report

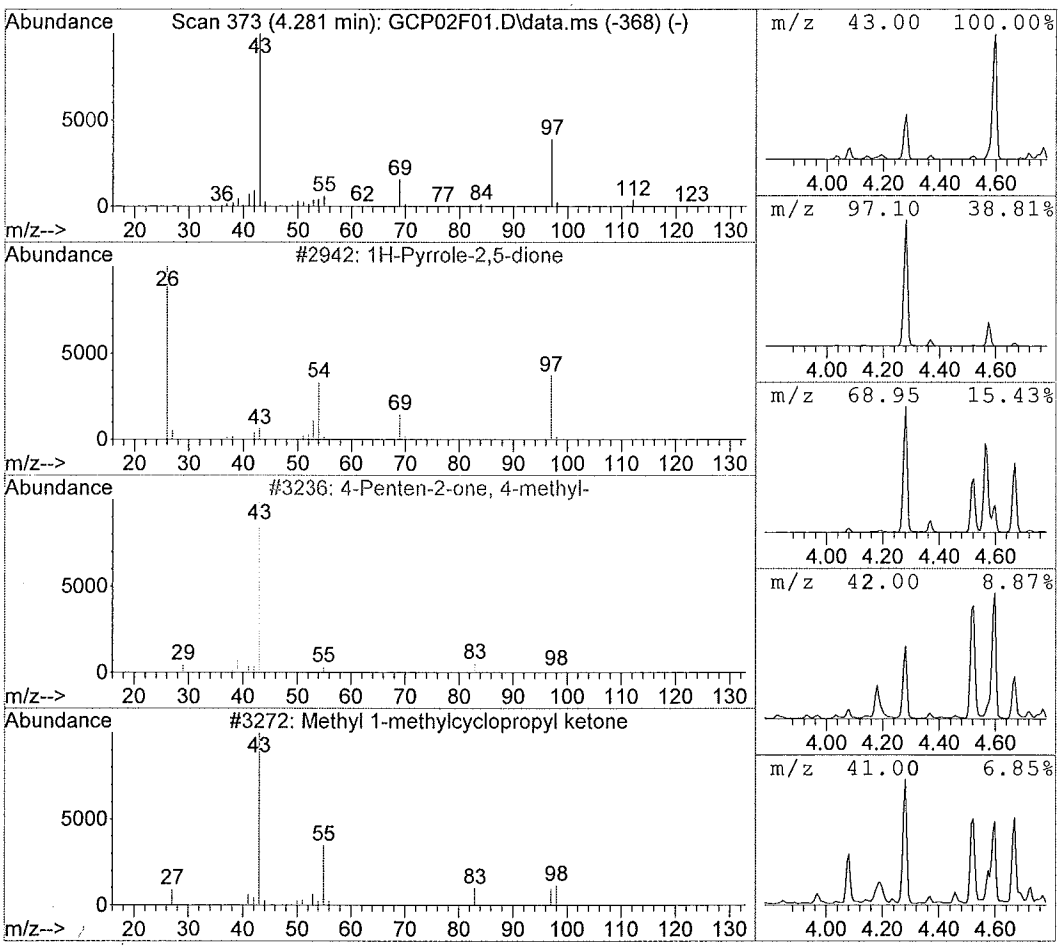
Data File : R:\G\2015\JUL15\10JUL15\GCP02F01.D
Acq On : 07/10/2015 10:20
Sample : 1515542001 F9M21
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 2
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	29.00 ug/ml	3536553	1,4-Dichlorobenzene-d4	2438587

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	Methyl 1-methylcyclopropyl ketone	3272	001567-75-5	9.00
4	5-Hexen-2-one	3158	000109-49-9	9.00
5	2-Propyn-1-ol, acetate	3098	000627-09-8	5.00



Library Search Compound Report

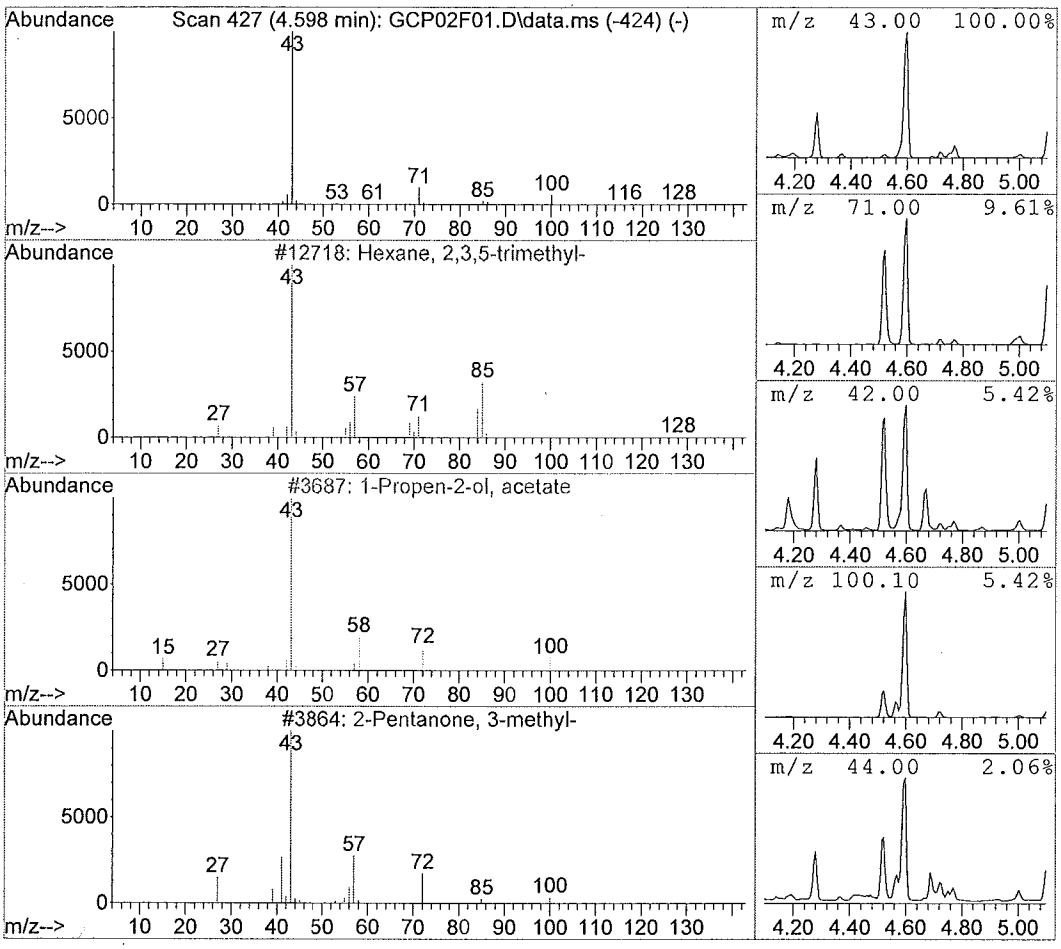
Data File : R:\G\2015\JUL15\10JUL15\GCP02F01.D Vial: 2
Acq On : 07/10/2015 10:20 Operator: TJM
Sample : 1515542001 F9M21 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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
4.60	53.88 ug/ml	6569013	1,4-Dichlorobenzene-d4	2438587

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	7.00
2	1-Propen-2-ol, acetate	3687	000108-22-5	5.00
3	2-Pentanone, 3-methyl-	3864	000565-61-7	5.00
4	2,3-Pentanedione	3673	000600-14-6	5.00
5	Heptane	3971	000142-82-5	5.00

BA



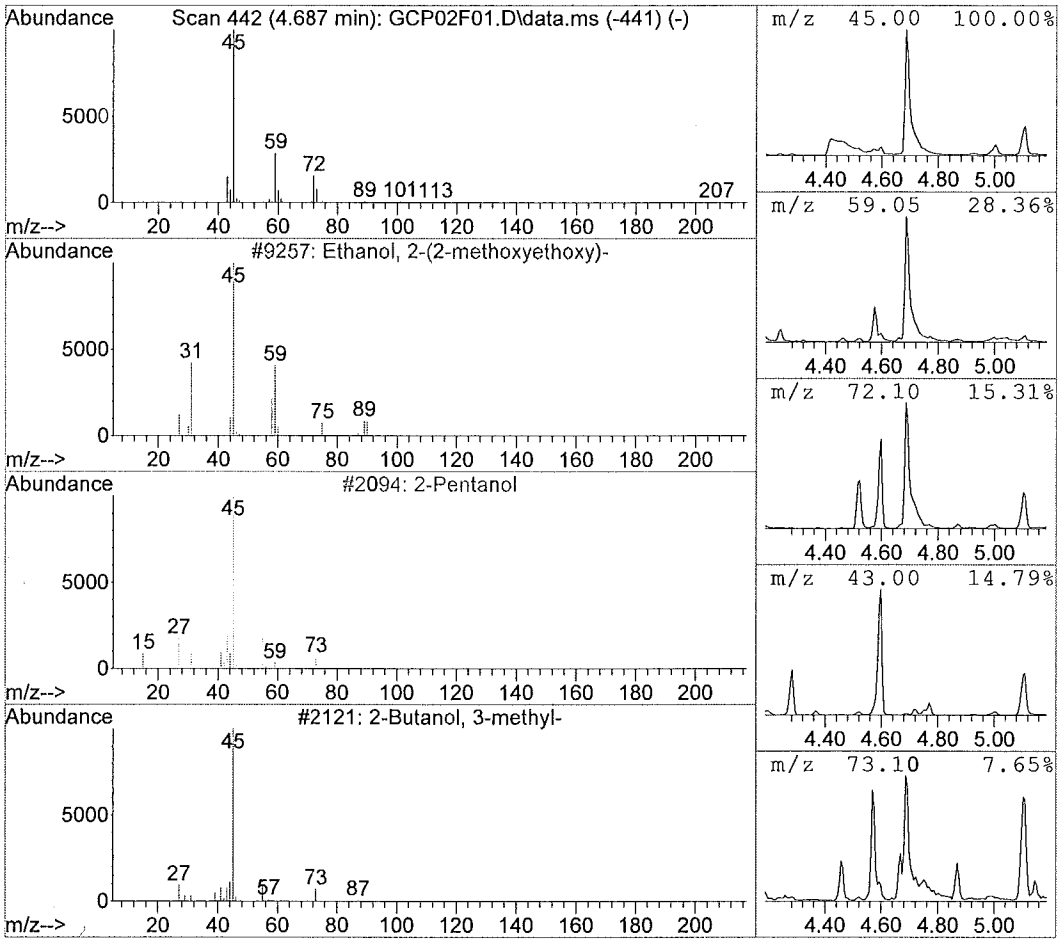
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP02F01.D Vial: 2
Acq On : 07/10/2015 10:20 Operator: TJM
Sample : 1515542001 F9M21 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	5.68 ug/ml	693095	1,4-Dichlorobenzene-d4	2438587

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethanol, 2-(2-methoxyethoxy)-	9257	000111-77-3	56.00
2	2-Pentanol	2094	006032-29-7	36.00
3	2-Butanol, 3-methyl-	2121	000598-75-4	33.00
4	1-Propanol, 3-mercapto-	2423	019721-22-3	9.00
5	(R)-(-)-3-Methyl-2-butanol	2132	001572-93-6	9.00



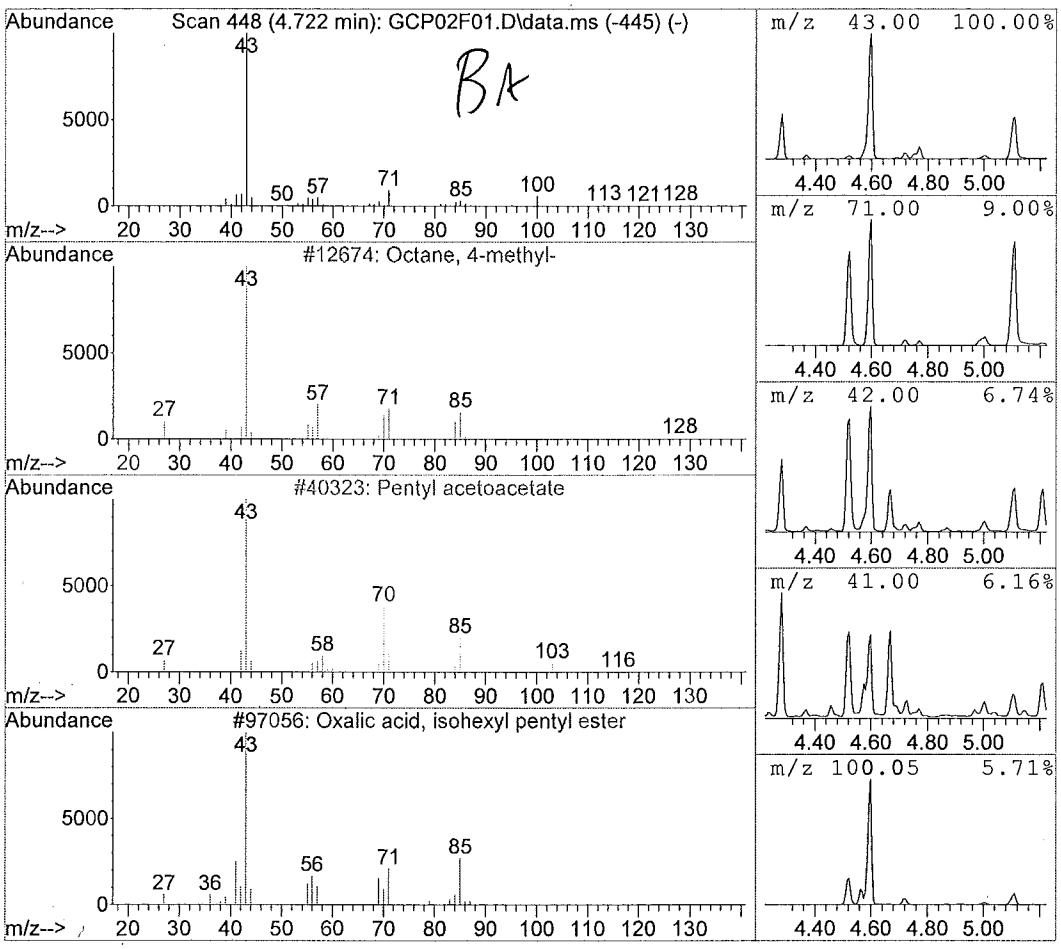
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP02F01.D Vial: 2
Acq On : 07/10/2015 10:20 Operator: TJM
Sample : 1515542001 F9M21 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
4.72	4.77 ug/ml	581402	1,4-Dichlorobenzene-d4	2438587

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octane, 4-methyl-	12674	002216-34-4	32.00
2	Pentyl acetoacetate	40323	006624-84-6	25.00
3	Oxalic acid, isohexyl pentyl ester	97056	1000309-32-8	23.00
4	Heptane, 2,4-dimethyl-	12697	002213-23-2	23.00
5	2,4-Diacetoxypentane	52047	007371-86-0	10.00



Library Search Compound Report

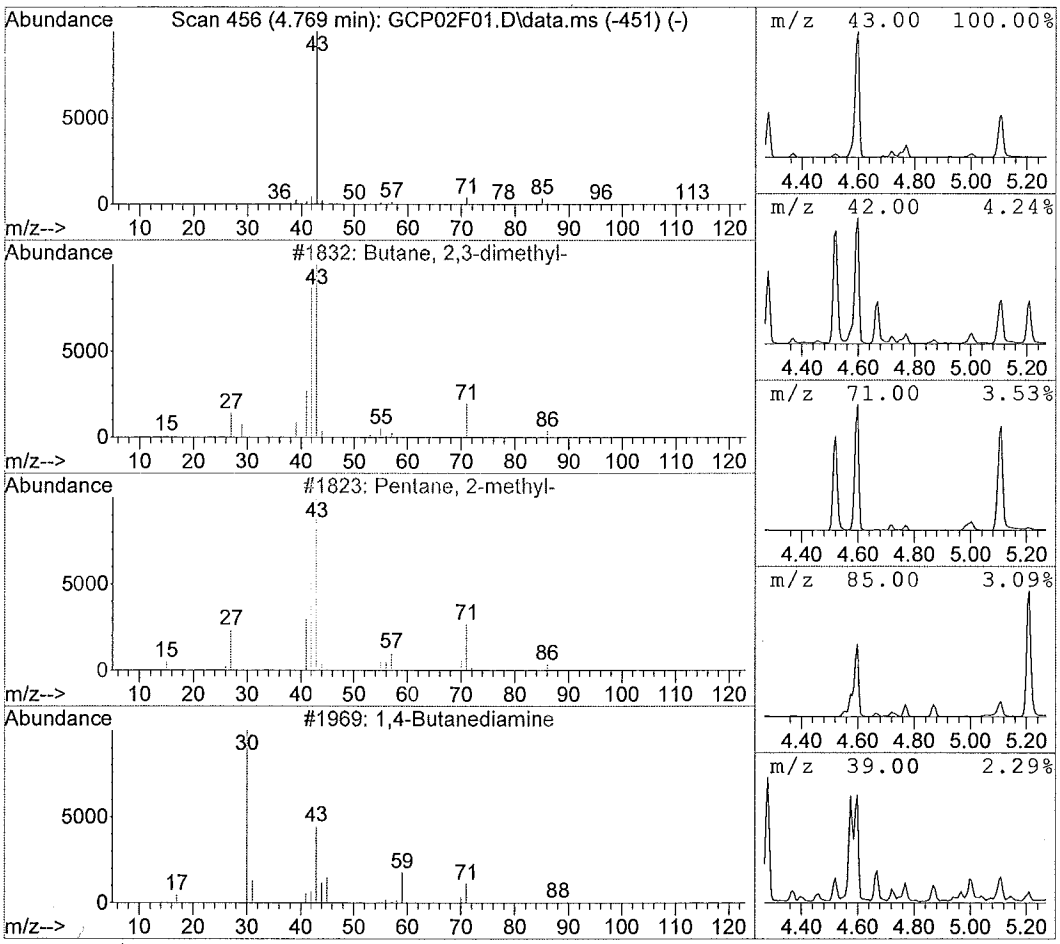
Data File : R:\G\2015\JUL15\10JUL15\GCP02F01.D Vial: 2
Acq On : 07/10/2015 10:20 Operator: TJM
Sample : 1515542001 F9M21 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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	7.39 ug/ml	900778	1,4-Dichlorobenzene-d4	2438587

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Butane, 2,3-dimethyl-	1832	000079-29-8	4.00
2	Pentane, 2-methyl-	1823	000107-83-5	3.00
3	1,4-Butanediamine	1969	000110-60-1	3.00
4	2-Butanone, 3-methyl-	1767	000563-80-4	2.00
5	2,3-Butanedione	1661	000431-03-8	2.00

BA



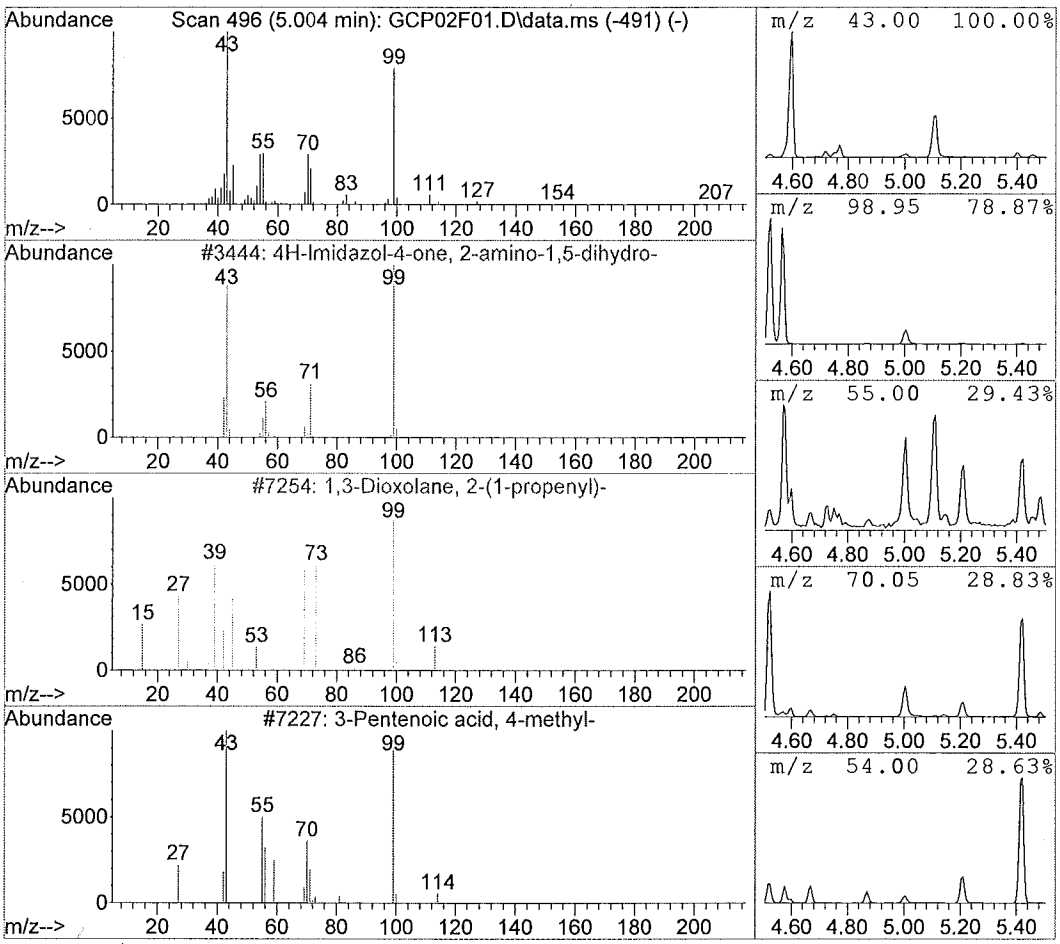
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP02F01.D Vial: 2
Acq On : 07/10/2015 10:20 Operator: TJM
Sample : 1515542001 F9M21 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
5.00	5.09 ug/ml	620408	1,4-Dichlorobenzene-d4	2438587

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4H-Imidazol-4-one, 2-amino-1,5-dihy	3444	000503-86-6	49.00
2	1,3-Dioxolane, 2-(1-propenyl)-	7254	004528-26-1	49.00
3	3-Pentenoic acid, 4-methyl-	7227	000504-85-8	47.00
4	3,4-Diamino-1,2,4(4H)-triazole	3435	038104-45-9	43.00
5	1-Pyrrolidinecarboxaldehyde	3506	003760-54-1	43.00



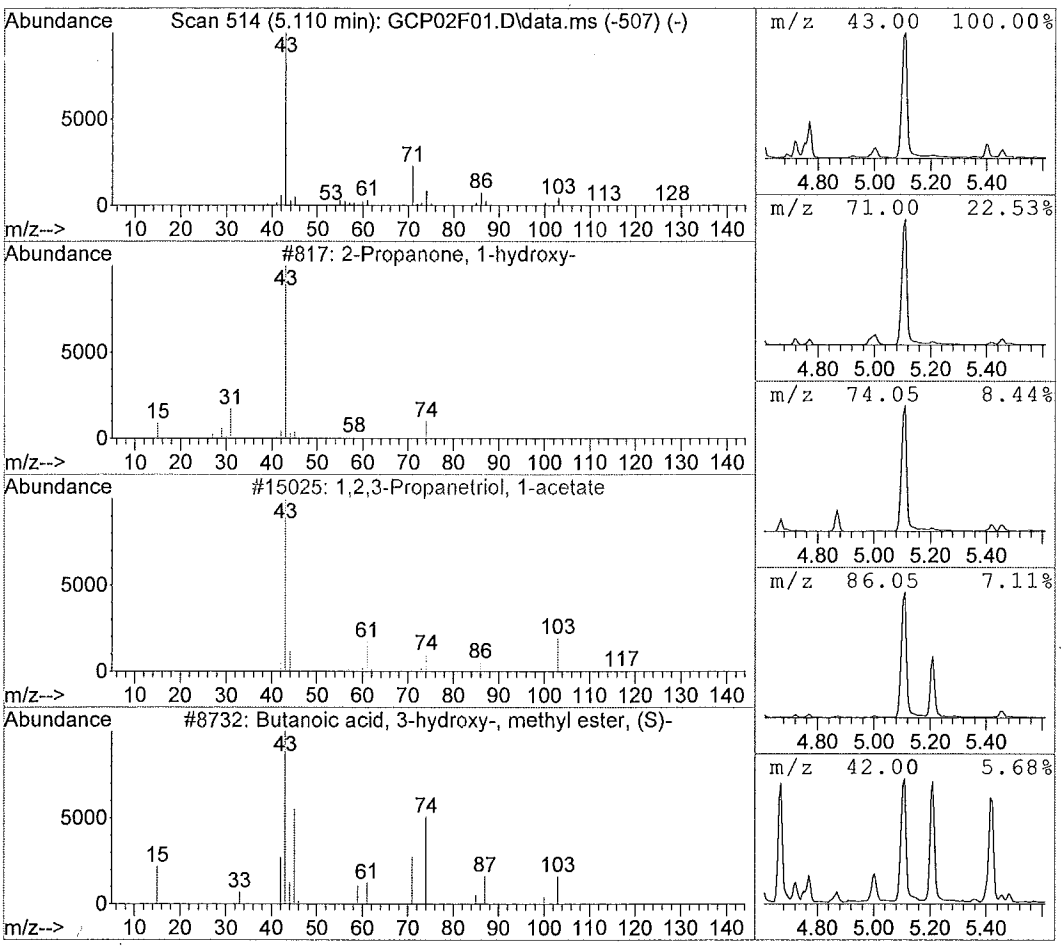
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP02F01.D Vial: 2
Acq On : 07/10/2015 10:20 Operator: TJM
Sample : 1515542001 F9M21 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
5.11	32.71 ug/ml	3988548	1,4-Dichlorobenzene-d4	2438587

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propanone, 1-hydroxy-	817	000116-09-6	22.00
2	1,2,3-Propanetriol, 1-acetate	15025	000106-61-6	17.00
3	Butanoic acid, 3-hydroxy-, methyl e	8732	053562-86-0	10.00
4	(R)-(-)-Methyl 3-hydroxybutyrate	8707	003976-69-0	10.00
5	Ethanone, 1-oxiranyl-	1669	004401-11-0	10.00

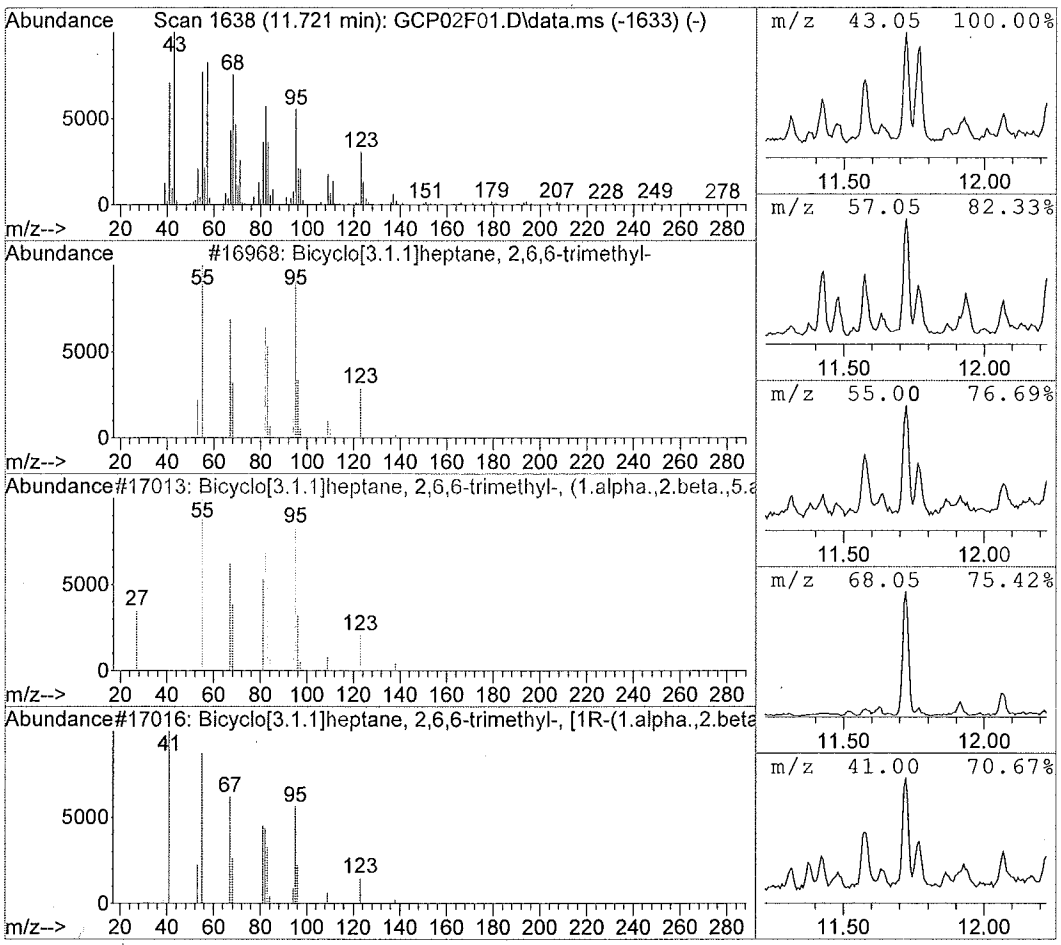


Data File : R:\G\2015\JUL15\10JUL15\GCP02F01.D Vial: 2
Acq On : 07/10/2015 10:20 Operator: TJM
Sample : 1515542001 F9M21 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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	3.63 ug/ml	582121	Phenanthrene-d10	3204432

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Bicyclo[3.1.1]heptane, 2,6,6-trimet	16968	000473-55-2	60.00
2	Bicyclo[3.1.1]heptane, 2,6,6-trimet	17013	006876-13-7	55.00
3	Bicyclo[3.1.1]heptane, 2,6,6-trimet	17016	004795-86-2	50.00
4	Bicyclo[3.1.1]heptane, 2,6,6-trimet	17019	004863-59-6	50.00
5	Tridecanedial	71064	063521-76-6	43.00



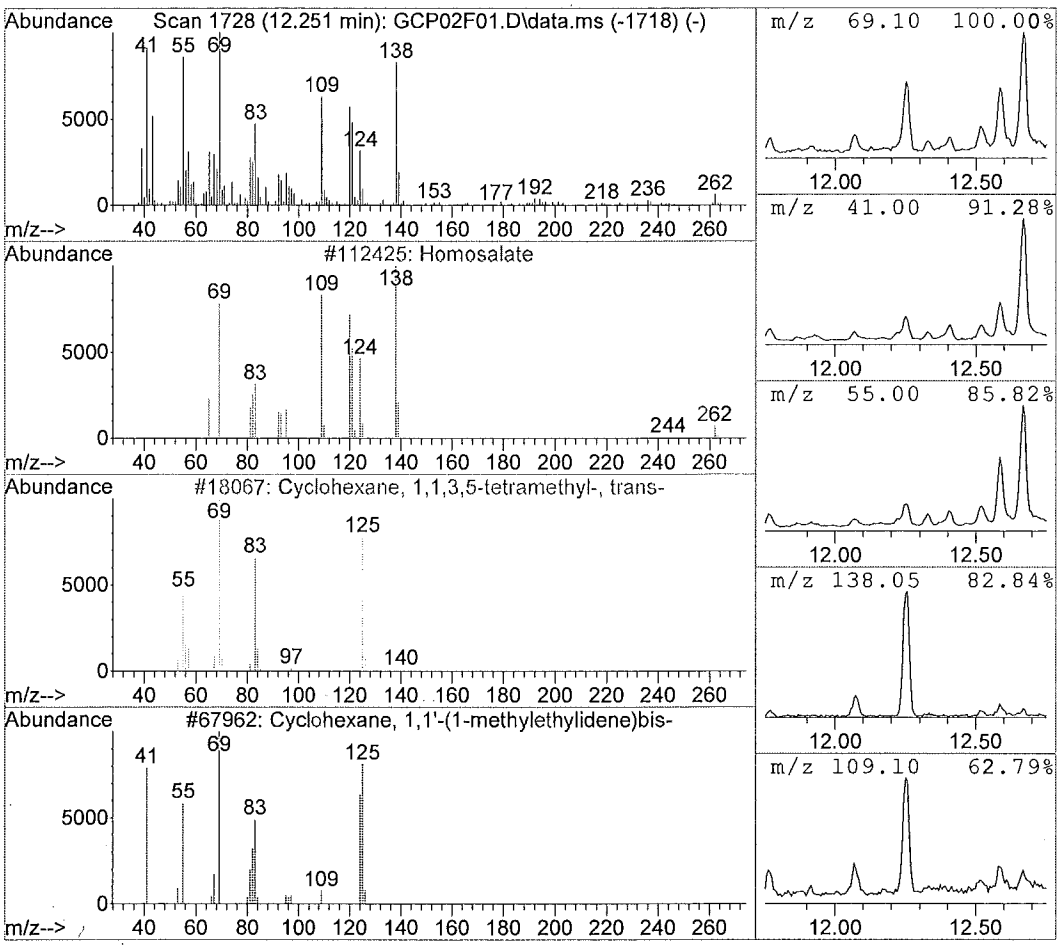
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP02F01.D Vial: 2
Acq On : 07/10/2015 10:20 Operator: TJM
Sample : 1515542001 F9M21 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	4.10 ug/ml	657708	Phenanthrene-d10	3204432

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Homosalate	112425	000118-56-9	96.00
2	Cyclohexane, 1,1,3,5-tetramethyl-,	18067	050876-31-8	27.00
3	Cyclohexane, 1,1'-(1-methylethylide	67962	054934-90-6	27.00
4	3-Amino-4,6-dimethylpyridone-2(1H)	17213	143708-29-6	25.00
5	3-Aminoisonicotinic acid	17153	007579-20-6	22.00



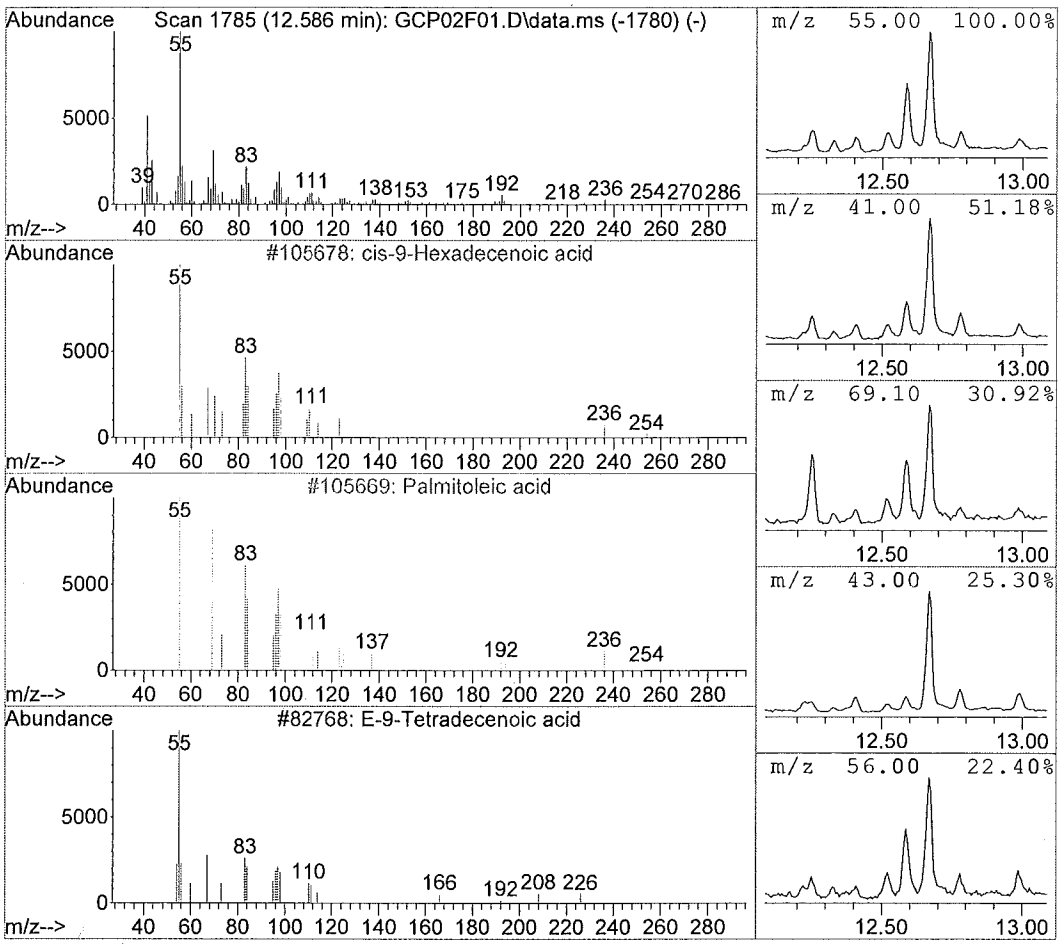
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP02F01.D Vial: 2
Acq On : 07/10/2015 10:20 Operator: TJM
Sample : 1515542001 F9M21 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
12.59	5.22 ug/ml	836894	Phenanthrene-d10	3204432

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	cis-9-Hexadecenoic acid	105678	1000333-19-5	95.00
2	Palmitoleic acid	105669	000373-49-9	78.00
3	E-9-Tetradecenoic acid	82768	1000131-35-8	58.00
4	9-Hexadecenoic acid	105670	002091-29-4	58.00
5	cis-Vaccenic acid	129339	000506-17-2	58.00

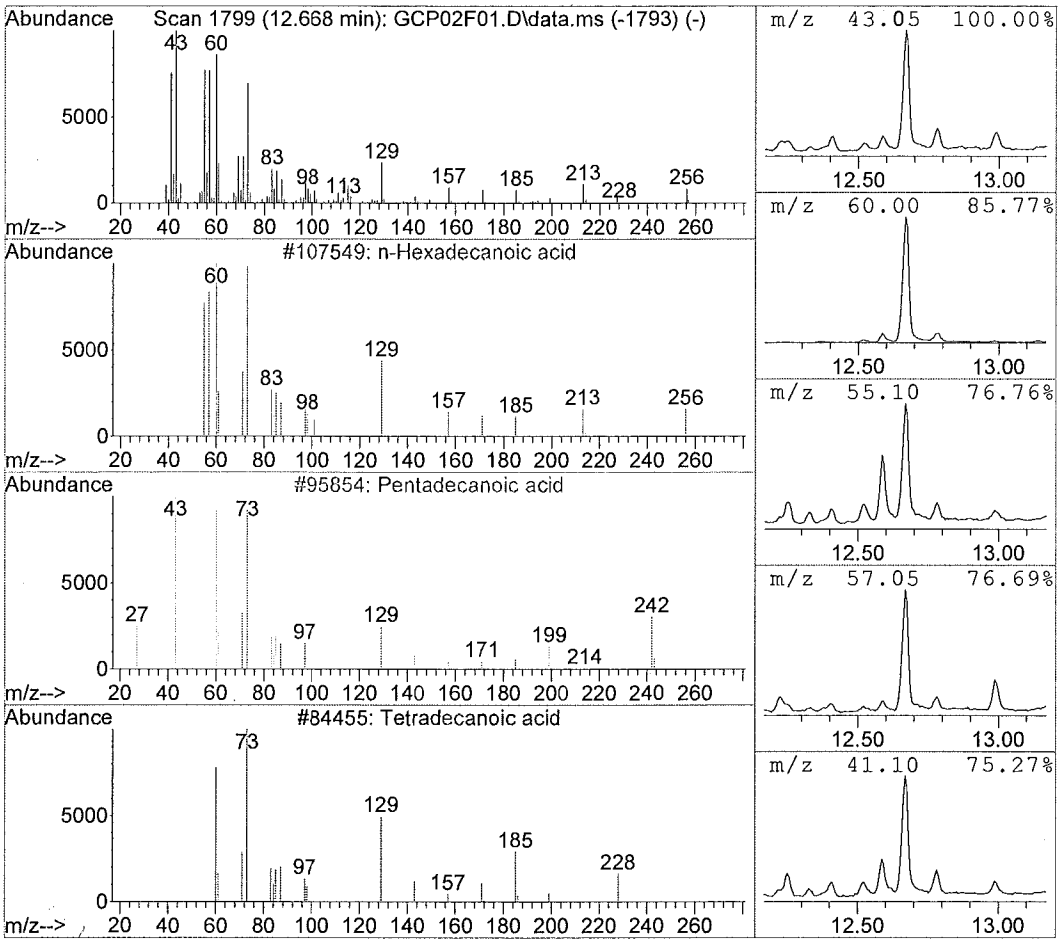


Data File : R:\G\2015\JUL15\10JUL15\GCP02F01.D Vial: 2
Acq On : 07/10/2015 10:20 Operator: TJM
Sample : 1515542001 F9M21 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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
12.67	16.88 ug/ml	2703822	Phenanthrene-d10	3204432

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	n-Hexadecanoic acid	107549	000057-10-3	98.00
2	Pentadecanoic acid	95854	001002-84-2	91.00
3	Tetradecanoic acid	84455	000544-63-8	72.00
4	Tridecanoic acid	72646	000638-53-9	59.00
5	Undecanoic acid	50051	000112-37-8	59.00



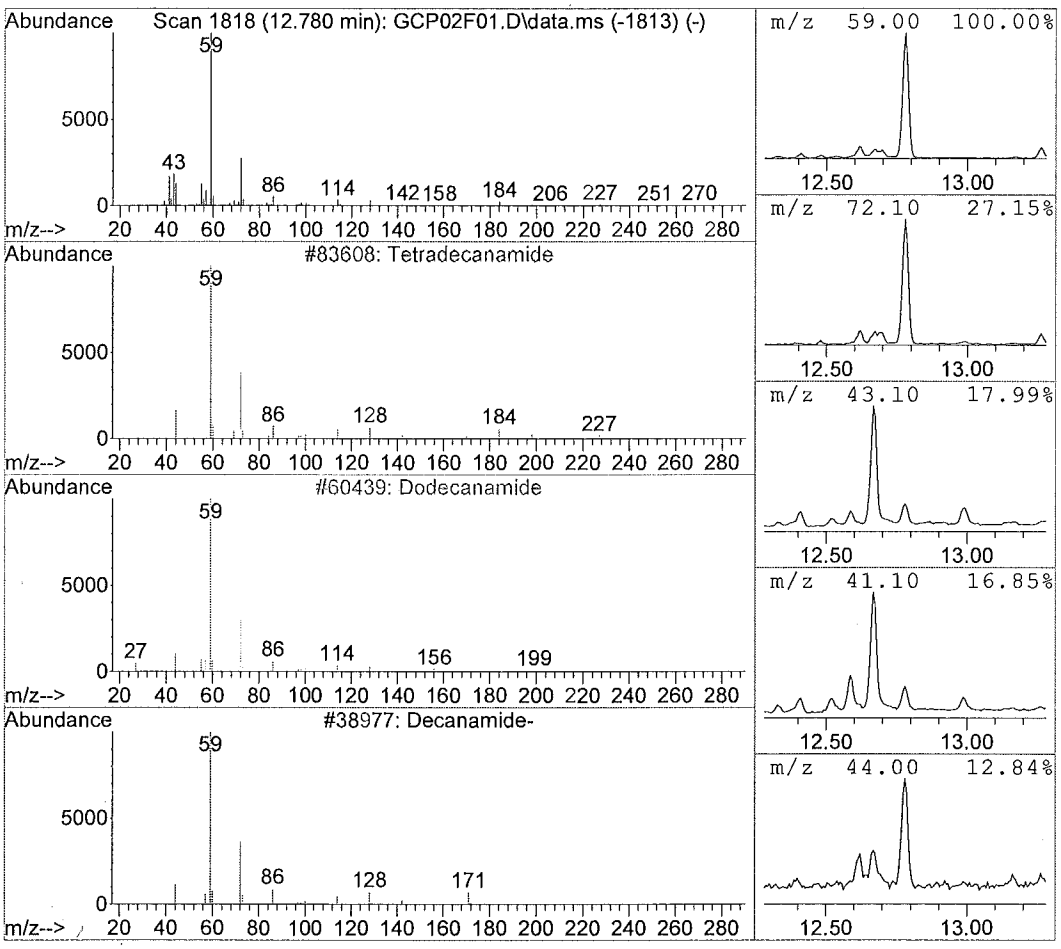
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP02F01.D Vial: 2
Acq On : 07/10/2015 10:20 Operator: TJM
Sample : 1515542001 F9M21 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
12.78	3.50 ug/ml	561032	Phenanthrene-d10	3204432

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83608	000638-58-4	93.00
2	Dodecanamide	60439	001120-16-7	83.00
3	Decanamide-	38977	002319-29-1	83.00
4	Nonanamide	29478	001120-07-6	83.00
5	Undecanamide, 11-bromo-	112862	005875-26-3	78.00



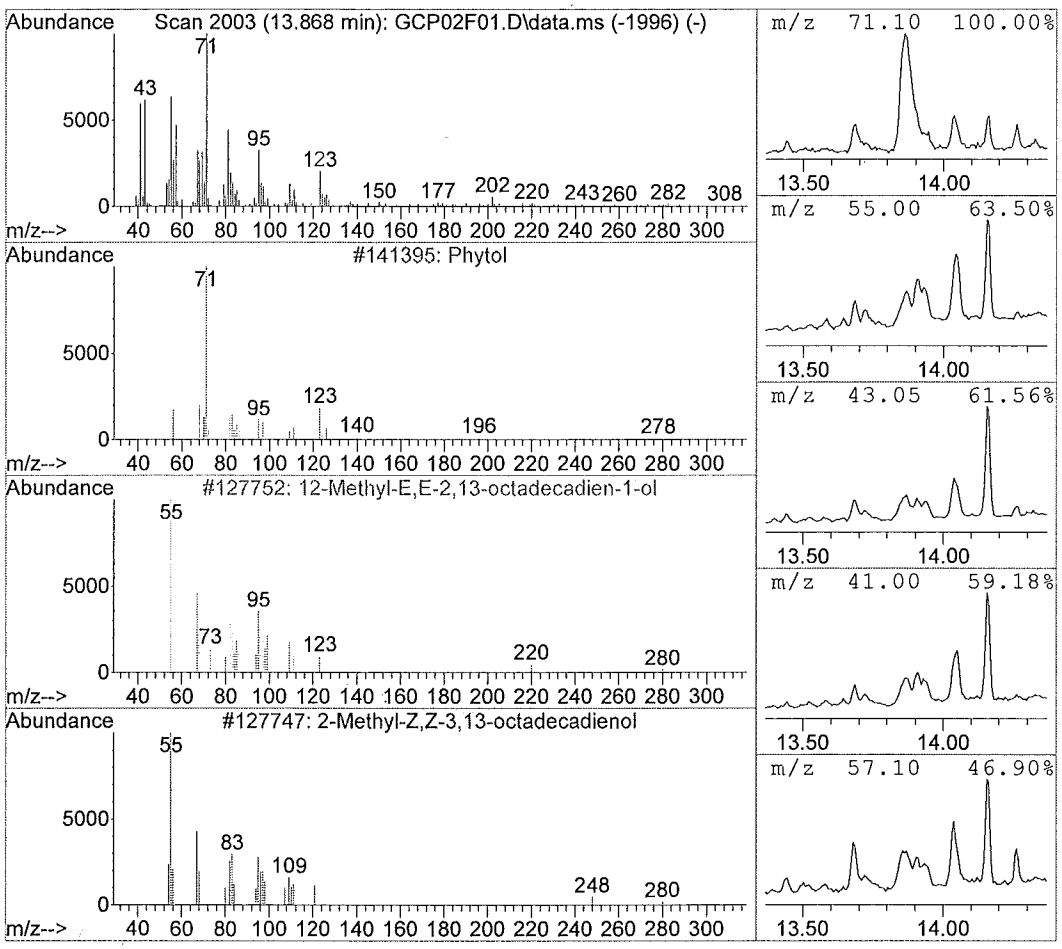
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP02F01.D Vial: 2
Acq On : 07/10/2015 10:20 Operator: TJM
Sample : 1515542001 F9M21 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
13.87	3.40 ug/ml	662568	Chrysene-d12	3895716

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phytol	141395	000150-86-7	83.00
2	12-Methyl-E,E-2,13-octadecadien-1-o	127752	1000130-90-4	56.00
3	2-Methyl-Z,Z-3,13-octadecadienol	127747	1000130-90-5	52.00
4	1,2-15,16-Diepoxyhexadecane	105696	1000192-65-0	49.00
5	Butanoic acid, undec-2-enyl ester	94152	1000299-12-5	46.00



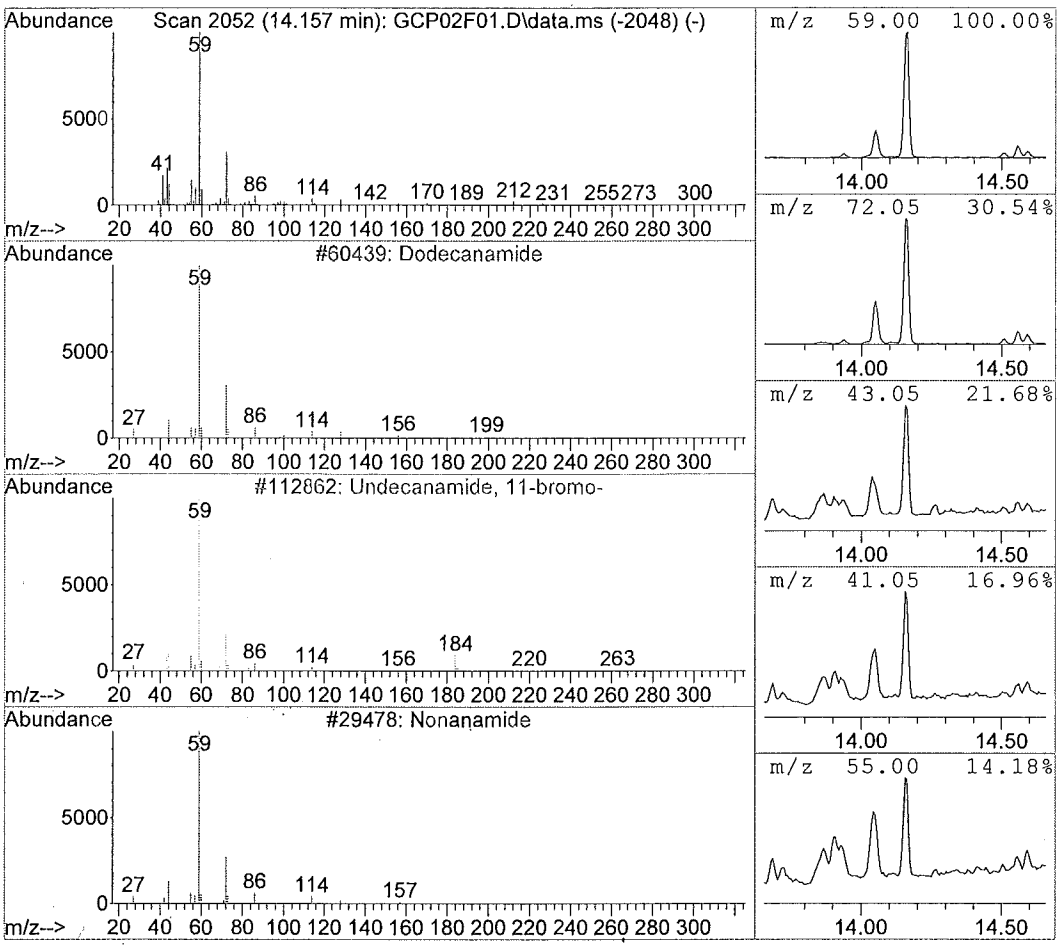
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP02F01.D Vial: 2
Acq On : 07/10/2015 10:20 Operator: TJM
Sample : 1515542001 F9M21 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
14.16	9.44 ug/ml	1839431	Chrysene-d12	3895716

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	83.00
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

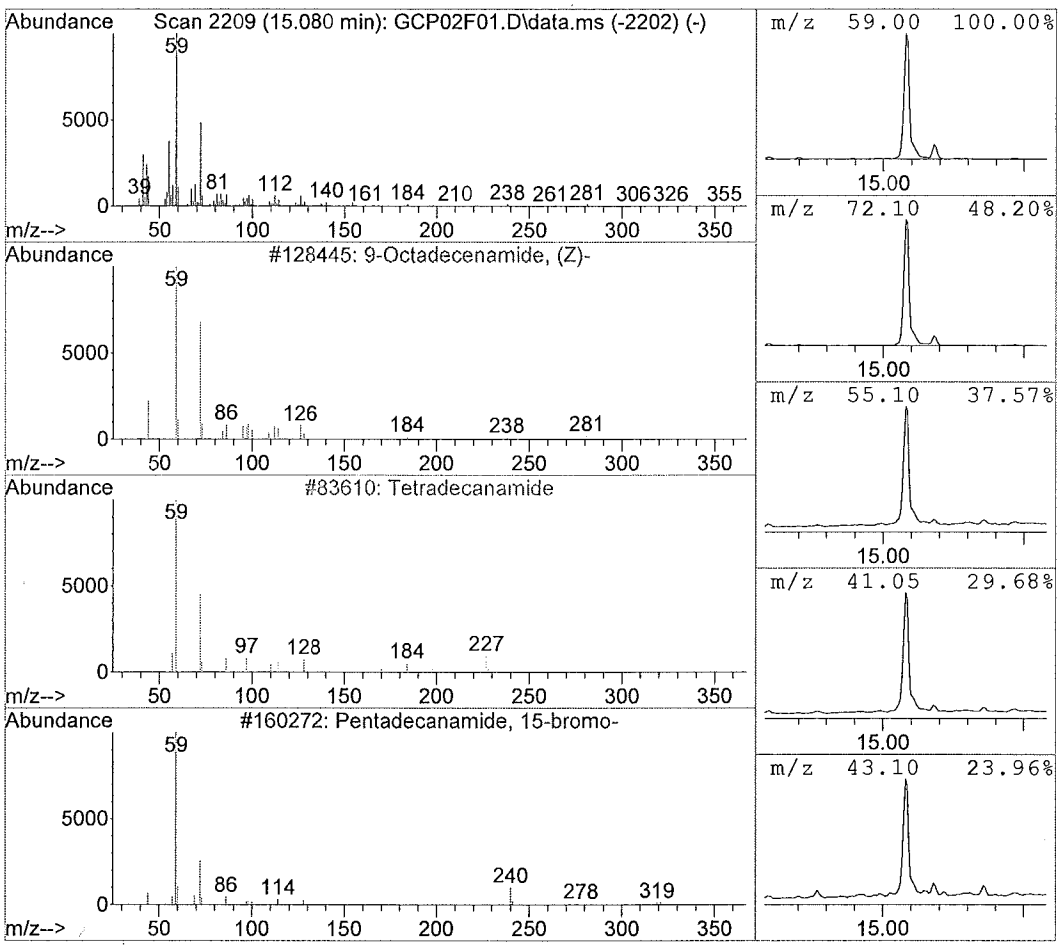


Data File : R:\G\2015\JUL15\10JUL15\GCP02F01.D Vial: 2
Acq On : 07/10/2015 10:20 Operator: TJM
Sample : 1515542001 F9M21 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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
15.08	53.31 ug/ml	10384032	Chrysene-d12	3895716

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	92.00
2	Tetradecanamide	83610	000638-58-4	87.00
3	Pentadecanamide, 15-bromo-	160272	1000163-86-1	80.00
4	7-Nonenamide	28131	090949-53-4	72.00
5	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	59.00



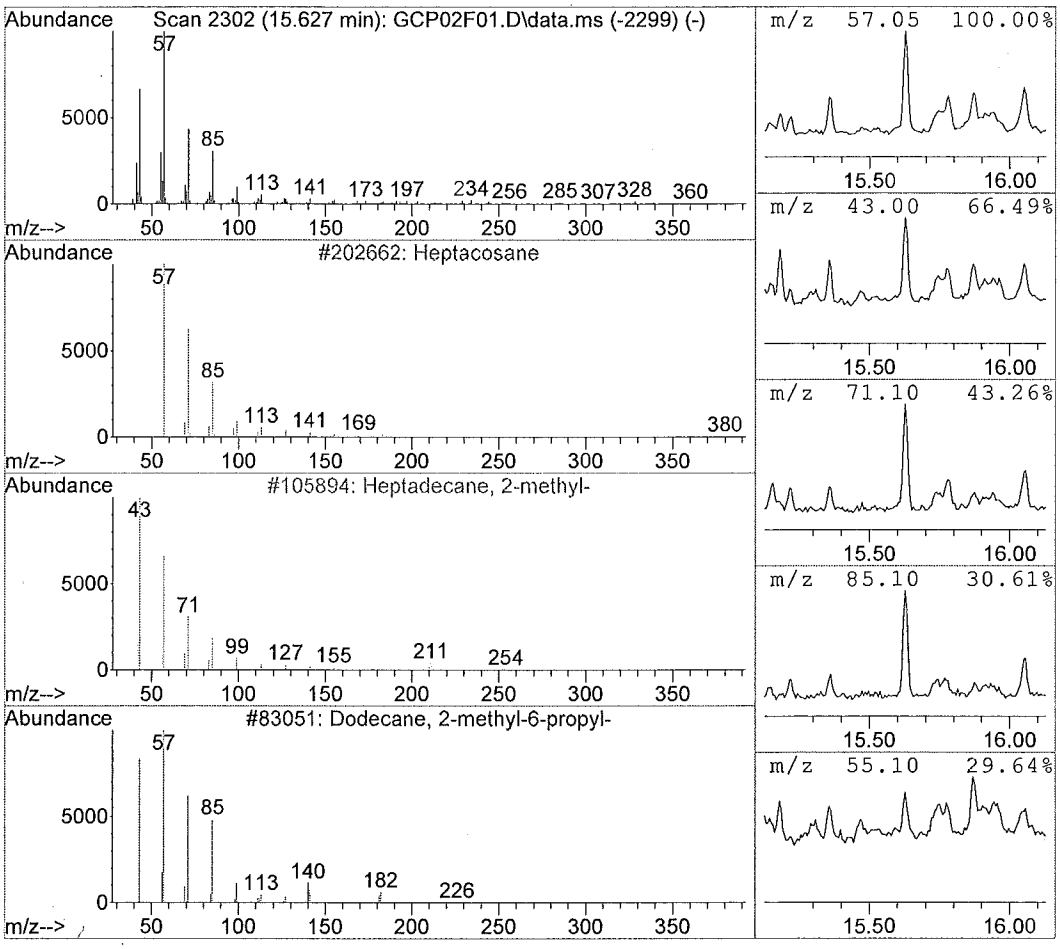
Data File : R:\G\2015\JUL15\10JUL15\GCP02F01.D Vial: 2
Acq On : 07/10/2015 10:20 Operator: TJM
Sample : 1515542001 F9M21 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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
15.63	2.69 ug/ml	524254	Chrysene-d12	3895716

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptacosane	202662	000593-49-7	94.00
2	Heptadecane, 2-methyl-	105894	001560-89-0	93.00
3	Dodecane, 2-methyl-6-propyl-	83051	055045-08-4	87.00
4	Sulfurous acid, butyl undecyl ester	137567	1000309-17-8	86.00
5	Octacosane	209566	000630-02-4	83.00

SCA



Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP02F01.D
Acq On : 07/10/2015 10:20
Sample : 1515542001 F9M21
Misc : . SOIL SOM
MS Integration Params: rteint.p

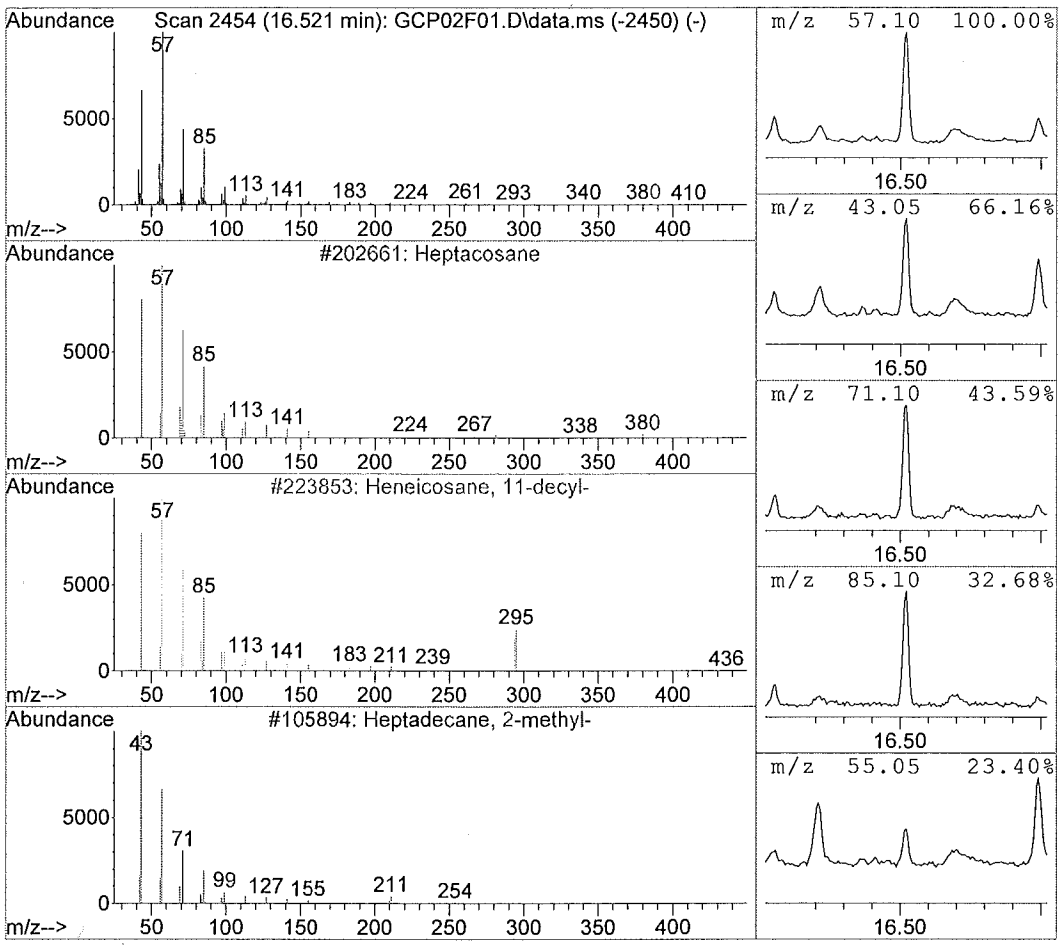
Vial: 2
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

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
16.52	5.57 ug/ml	1084278	Chrysene-d12	3895716

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptacosane	202661	000593-49-7	95.00
2	Heneicosane, 11-decyl-	223853	055320-06-4	87.00
3	Heptadecane, 2-methyl-	105894	001560-89-0	86.00
4	Eicosane, 7-hexyl-	194499	055333-99-8	86.00
5	Dodecane, 5,8-diethyl-	83038	024251-86-3	83.00

SCA



Library Search Compound Report

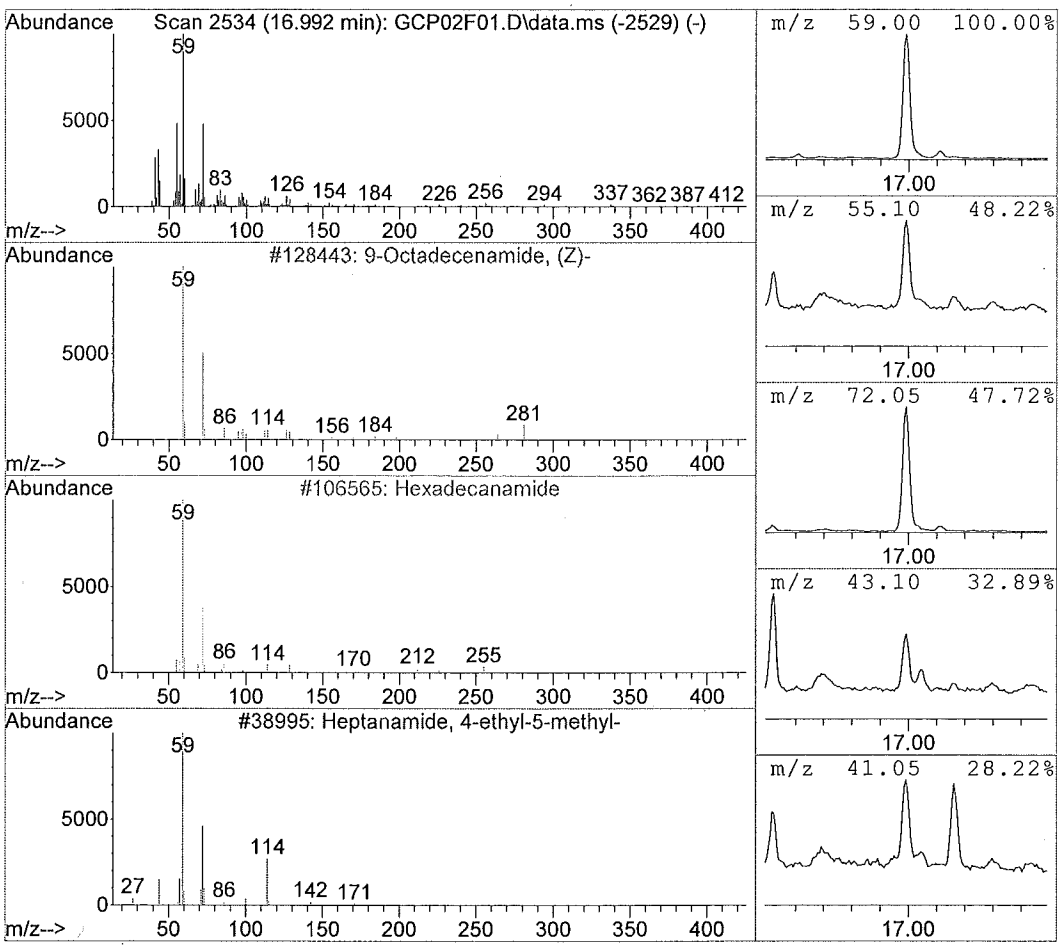
Data File : R:\G\2015\JUL15\10JUL15\GCP02F01.D
Acq On : 07/10/2015 10:20
Sample : 1515542001 F9M21
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 2
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
16.99	15.33 ug/ml	1609753	Perylene-d12	2100439

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	90.00
2	Hexadecanamide	106565	000629-54-9	78.00
3	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	72.00
4	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	64.00
5	Nonanamide	29478	001120-07-6	53.00

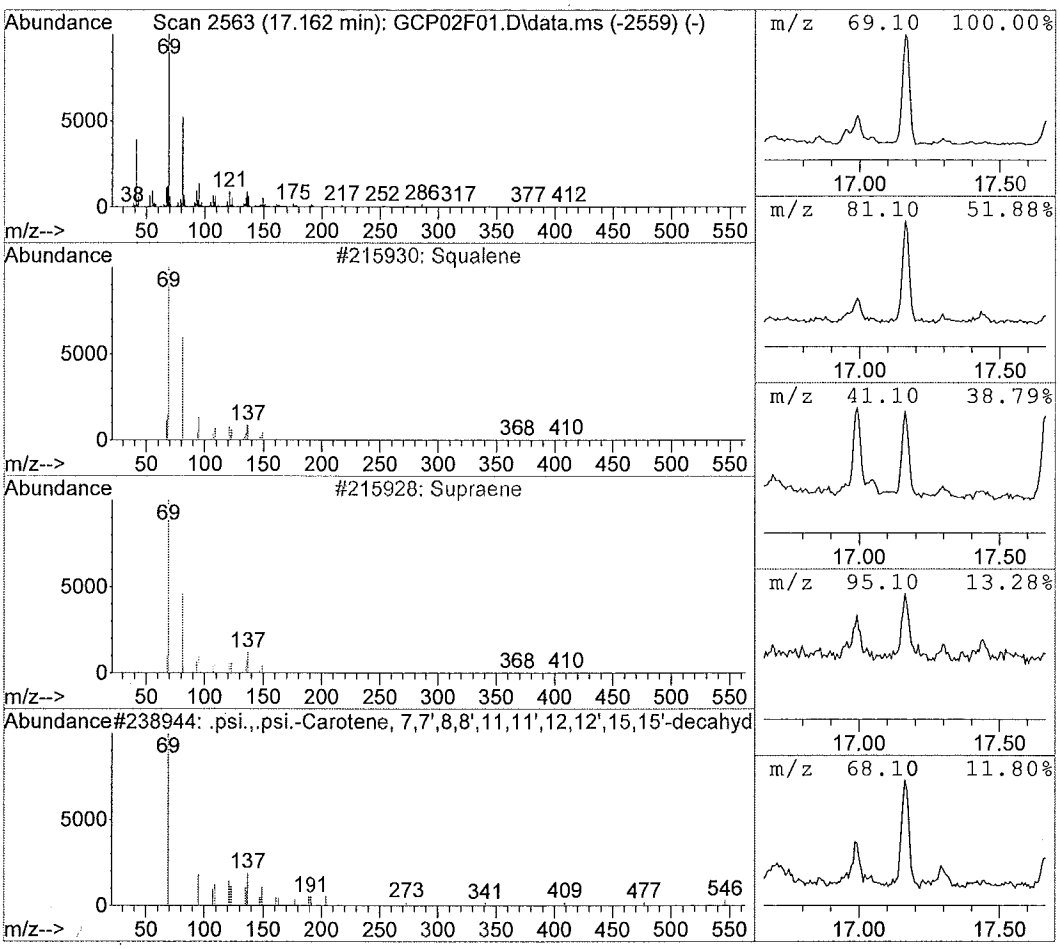


Data File : R:\G\2015\JUL15\10JUL15\GCP02F01.D Vial: 2
Acq On : 07/10/2015 10:20 Operator: TJM
Sample : 1515542001 F9M21 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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	10.01 ug/ml	1050876	Perylene-d12	2100439

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Squalene	215930	000111-02-4	91.00
2	Supraene	215928	007683-64-9	87.00
3	.psi.,.psi.-Carotene, 7,7',8,8',11,	238944	000502-62-5	78.00
4	Cyclopropanecarboxylic acid, 4-isop	64162	1000331-01-9	53.00
5	4-Methyl-1,5-Heptadiene	5950	000998-94-7	53.00



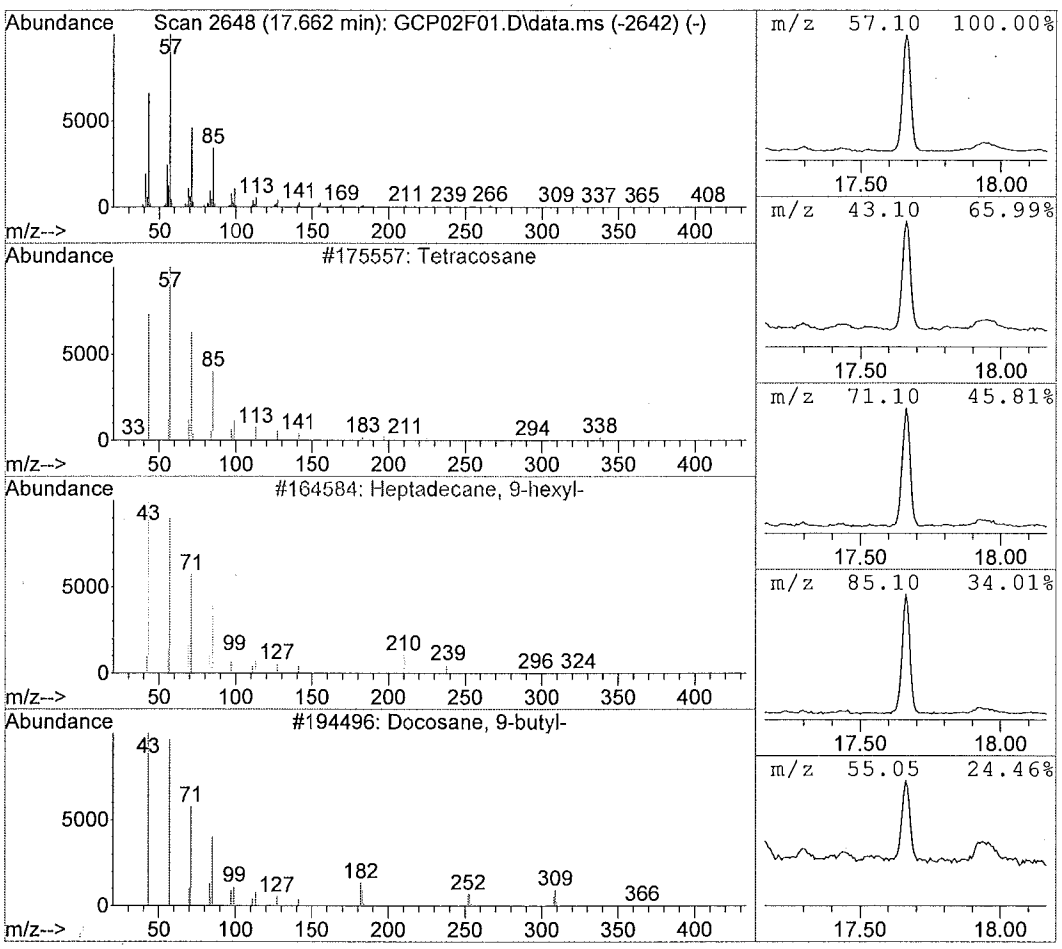
Data File : R:\G\2015\JUL15\10JUL15\GCP02F01.D Vial: 2
Acq On : 07/10/2015 10:20 Operator: TJM
Sample : 1515542001 F9M21 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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	23.56 ug/ml	2474589	Perylene-d12	2100439

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetracosane	175557	000646-31-1	96.00
2	Heptadecane, 9-hexyl-	164584	055124-79-3	96.00
3	Docosane, 9-butyl-	194496	055282-14-9	93.00
4	Docosane, 11-butyl-	194501	013475-76-8	93.00
5	Heptacosane	202662	000593-49-7	91.00

SCA



Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP02F01.D
Acq On : 07/10/2015 10:20
Sample : 1515542001 F9M21
Misc : . SOIL SOM
MS Integration Params: rteint.p

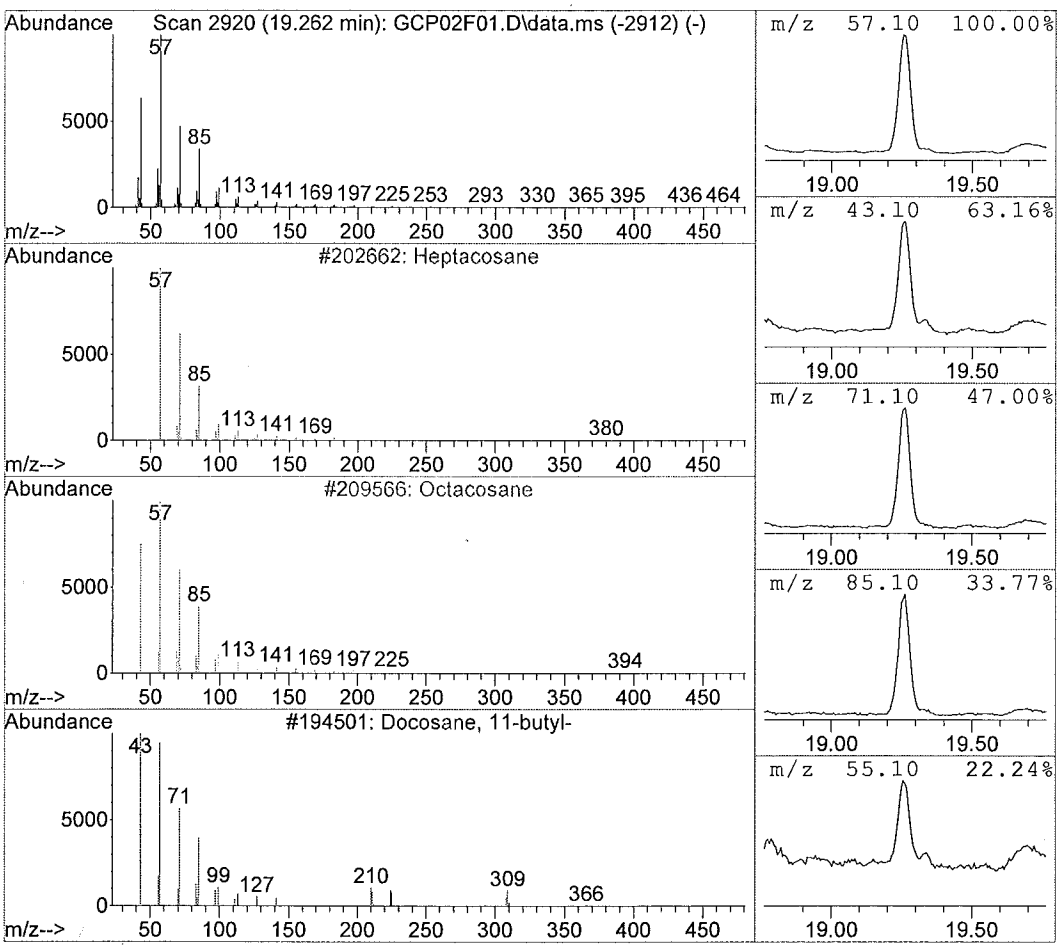
Vial: 2
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

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
19.26	23.63 ug/ml	2481180	Perylene-d12	2100439

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptacosane	202662	000593-49-7	91.00
2	Octacosane	209566	000630-02-4	90.00
3	Docosane, 11-butyl-	194501	013475-76-8	86.00
4	Eicosane, 7-hexyl-	194499	055333-99-8	86.00
5	Hexatriacontane	235973	000630-06-8	86.00

SCA



: 00062

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: F9M22

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GCP03F02

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

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

GPC Cleanup: (Y/N) Y pH: 8.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	190	U
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	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.

F9M22

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GCP03F02

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

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

GPC Cleanup: (Y/N) Y pH: 8.1 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	23.	J
129-00-0	Pyrene	27.	J
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	18.	J
218-01-9	Chrysene	20.	J
117-81-7	Bis(2-ethylhexyl)phthalate	190	U
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	24.	J
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9M22

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GCP03F02

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

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

GPC Cleanup: (Y/N) Y pH: 8.1 Dilution Factor: 1.0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 1,3-Dioxolane, 2,2-dimethyl-	2.32	690	J
02		Unknown 2-Pentanone, 4-hydroxy-	3.30	690	JB
03		Unknown Guanidine	3.51	19000	J
04		Unknown TATP	4.08	290	J
05		Unknown Tetrahydrofuran, 2,2-dimethyl-	4.19	190	J
06		Unknown 1H-Pyrrole-2,5-dione	4.28	1100	J
07		Unknown 4H-Imidazol-4-one, 2-amino-1,5-dihydro-	4.99	200	J
08		Unknown Dodecanamide	14.16	380	J
09	301-02-0	9-Octadecenamide, (Z)-	15.07	2200	JNB
10	301-02-0	9-Octadecenamide, (Z)-	15.86	130	JN
11		Unknown Cyclohexanecarboxamide	16.20	220	J
12		Unknown 2,2,4,7-Tetramethyl-3,6,9-trioxa-2-silat	16.37	180	J
13	301-02-0	9-Octadecenamide, (Z)-	16.99	1400	JN
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	2600	J

[2] EPA-designated Registry Number.

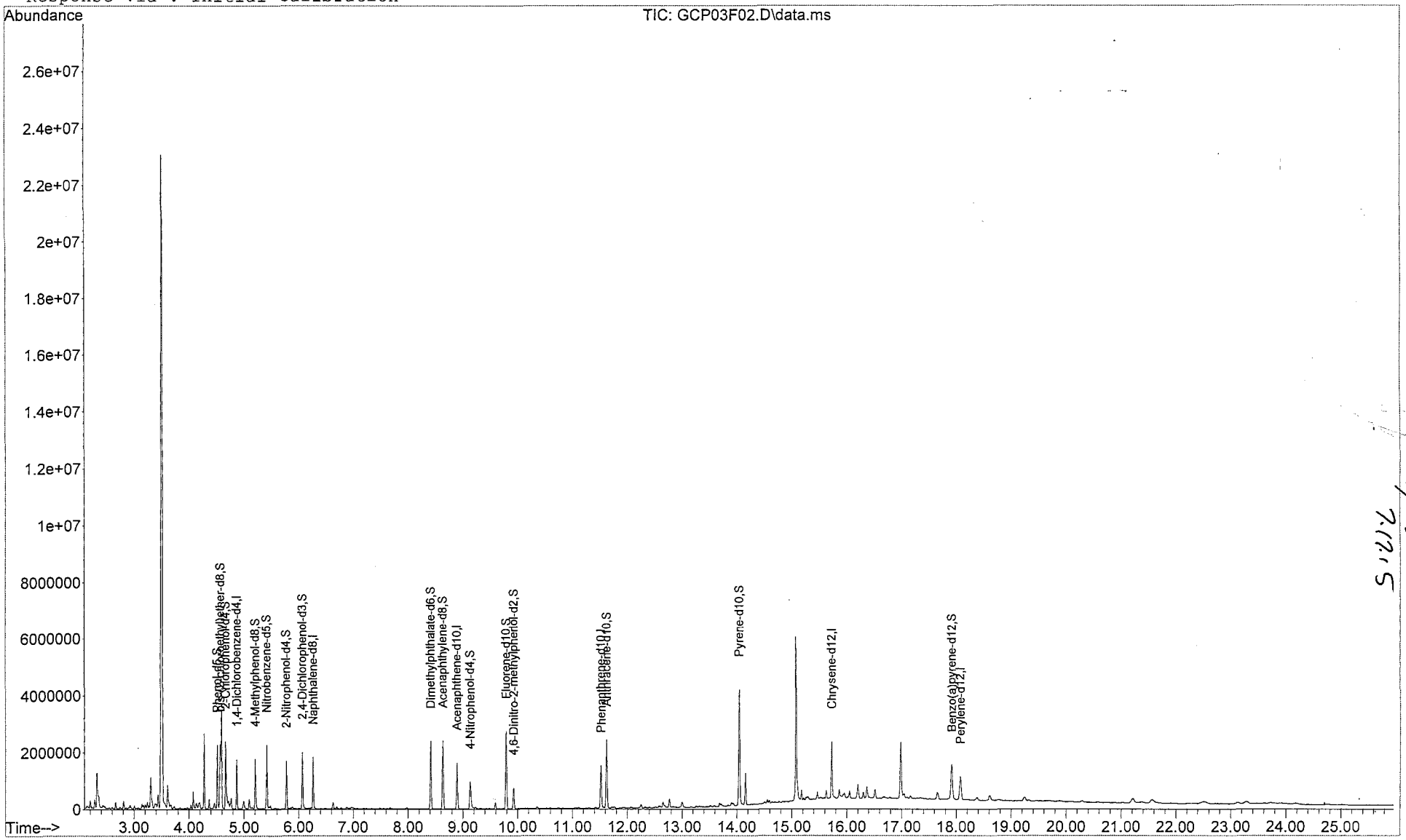
Quantitation Report

Data File : R:\G\2015\JUL15\10JUL15\GCP03F02.D
Acq On : 07/10/2015 10:54
Sample : 1515542002 F9M22
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 3
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jul 17 08:41:28 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



7.12.15

Quantitation Report

Data File : R:\G\2015\JUL15\10JUL15\GCP03F02.D Vial: 3
Acq On : 07/10/2015 10:54 Operator: TJM
Sample : 1515542002 F9M22 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 17 08:41:28 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	226755	20.00 ug/ml
16) Naphthalene-d8	6.26	136	851567	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	494758	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	835456	20.00 ug/ml
73) Chrysene-d12	15.73	240	824824	20.00 ug/ml
81) Perylene-d12	18.07	264	580830	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.52	99	655251	33.206ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	472899	30.752ug/mL
7) 2-Chlorophenol-d4	4.66	132	544502	32.682ug/ml
13) 4-Methylphenol-d8	5.20	113	342319	25.936ug/mL
17) Nitrobenzene-d5	5.42	128	247480	33.082ug/ml
21) 2-Nitrophenol-d4	5.77	143	263781	33.360ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	419866	34.101ug/mL
28) 4-Chloroaniline-d4	6.35	131	4196	0.312ug/mL
42) Dimethylphthalate-d6	8.42	166	1188253	38.300ug/mL
45) Acenaphthylene-d8	8.63	160	1421124	33.706ug/mL
50) 4-Nitrophenol-d4	9.13	143	220401	34.823ug/mL
57) Fluorene-d10	9.79	176	996464	37.610ug/mL
61) 4,6-Dinitro-2-methylphenol	9.93	200	120194	20.269ug/mL
69) Anthracene-d10	11.62	188	1413459	31.903ug/mL
75) Pyrene-d10	14.05	212	1501246	36.471ug/mL
86) Benzo(a)pyrene-d12	17.92	264	848960	30.503ug/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\10JUL15\GCP03F02.D Vial: 3
Acq On : 07/10/2015 10:54 Operator: TJM
Sample : 1515542002 F9M22 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 17 08:41:28 2015 Results File: GSOM01D6.RES

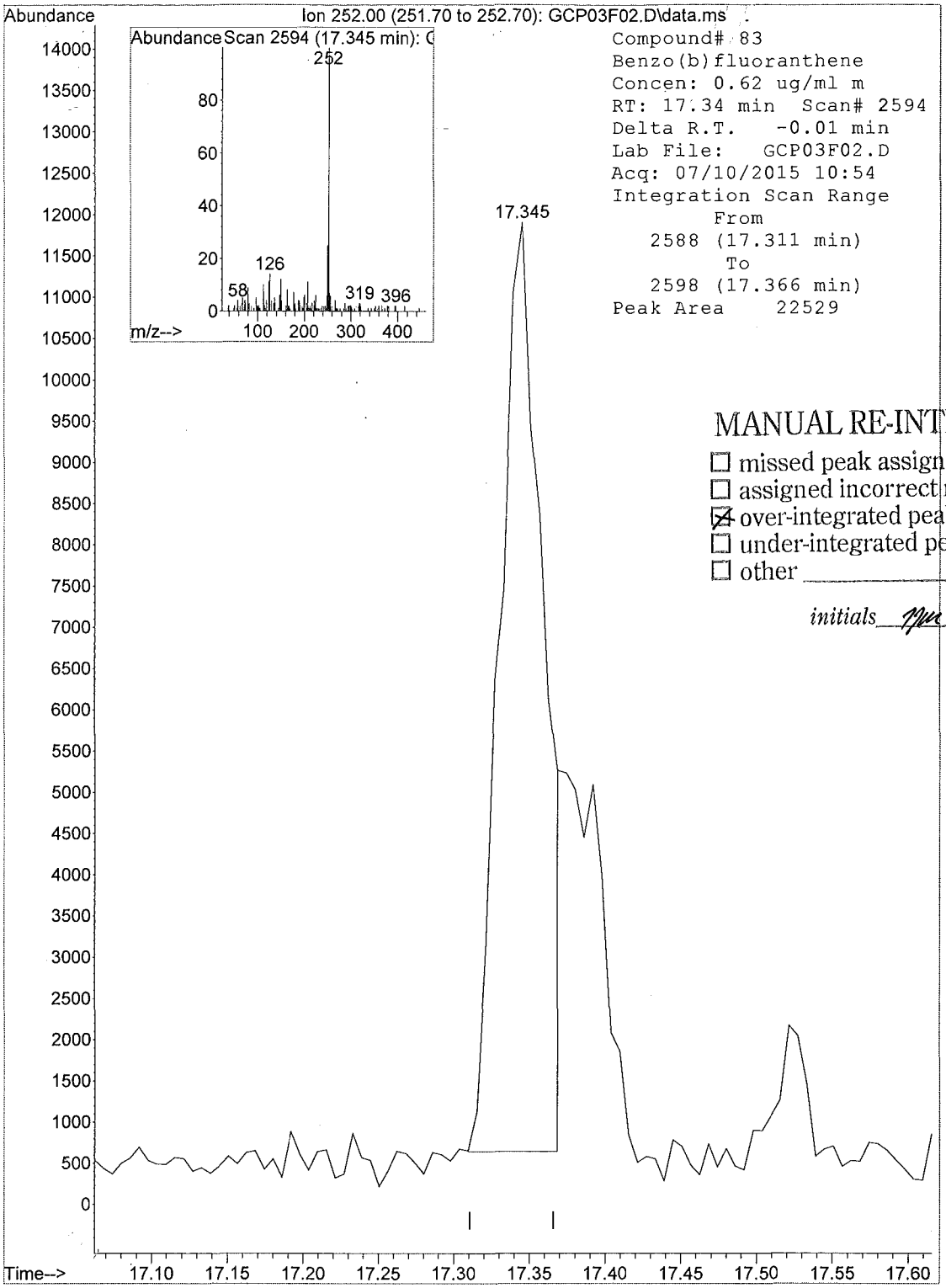
Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration

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	13.72	202	30224	0.616ug/ml	95
74) Pyrene	14.07	202	37039	0.705ug/ml	78
76) Butylbenzylphthalate	0.00	149		Not Detected	
77) 3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78) Benzo(a)anthracene	15.72	228	24351	0.487ug/ml	82
79) Chrysene	15.76	228	24338	0.539ug/ml	94
80) Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82) Di-n-octylphthalate	0.00	149		Not Detected	
83) Benzo(b)fluoranthene	17.34	252	22529	0.619ug/ml m	94
84) Benzo(k)fluoranthene	0.00	252		Not Detected	
85) Benzo(a)pyrene	0.00	252		Not Detected	
87) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89) Benzo(g,h,i)perylene	0.00	276		Not Detected	

7.17.15

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

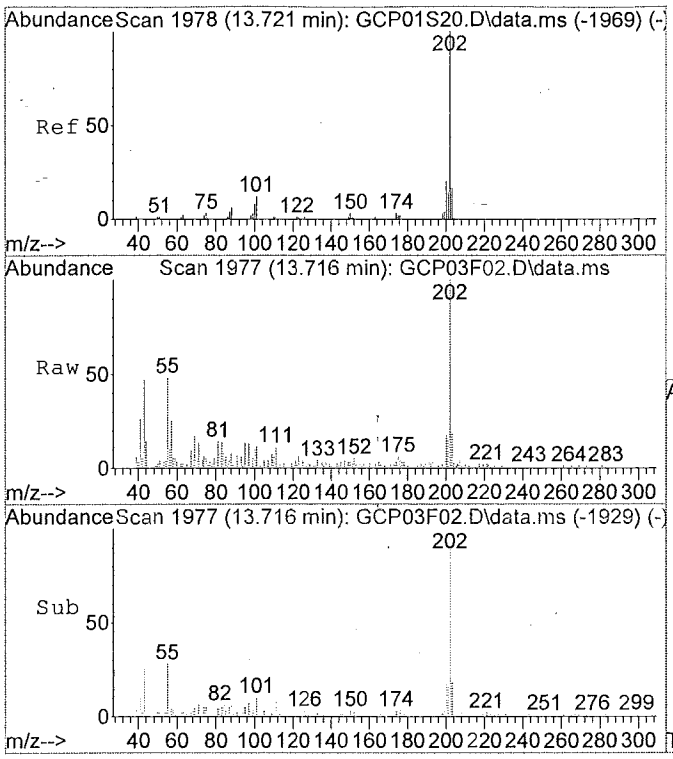
MANUAL INTEGRATION FOR Benzo(b)fluoranthene



MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☒ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

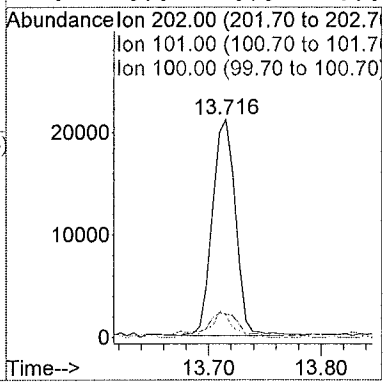
initials MM *date* 7.17.15

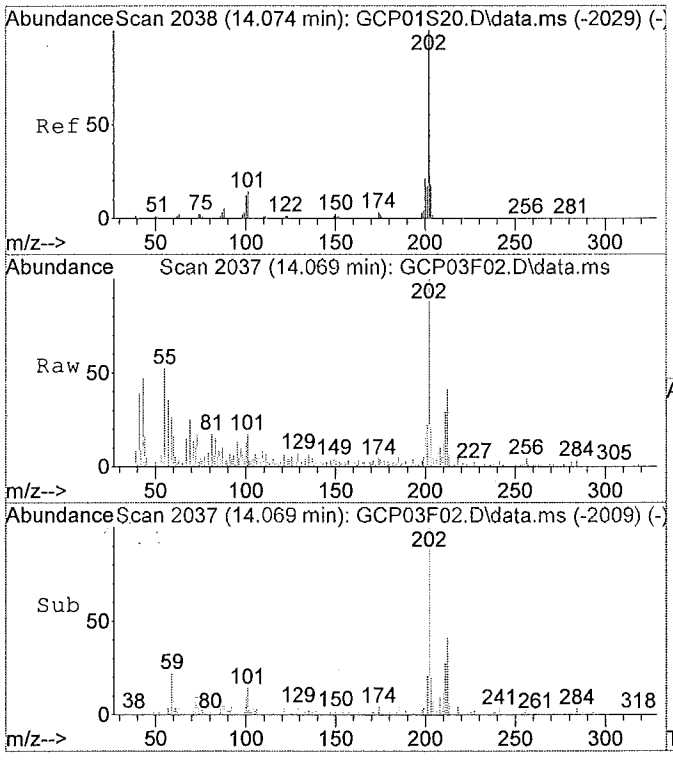


#72
Fluoranthene
Concen: 0.62 ug/ml
RT: 13.72 min Scan# 1977
Delta R.T. -0.01 min
Lab File: GCP03F02.D
Acq: 07/10/2015 10:54

Tgt Ion:202 Resp: 30224

Ion	Ratio	Lower	Upper
202	100		
101	17.4	10.5	19.5
100	11.7	7.4	13.8
0	0.0	0.0	0.0

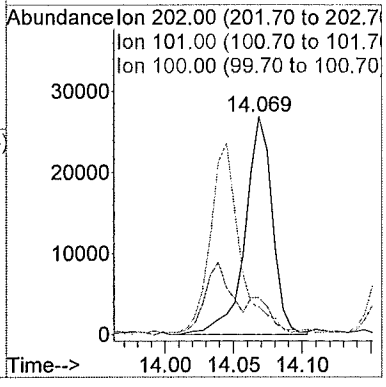


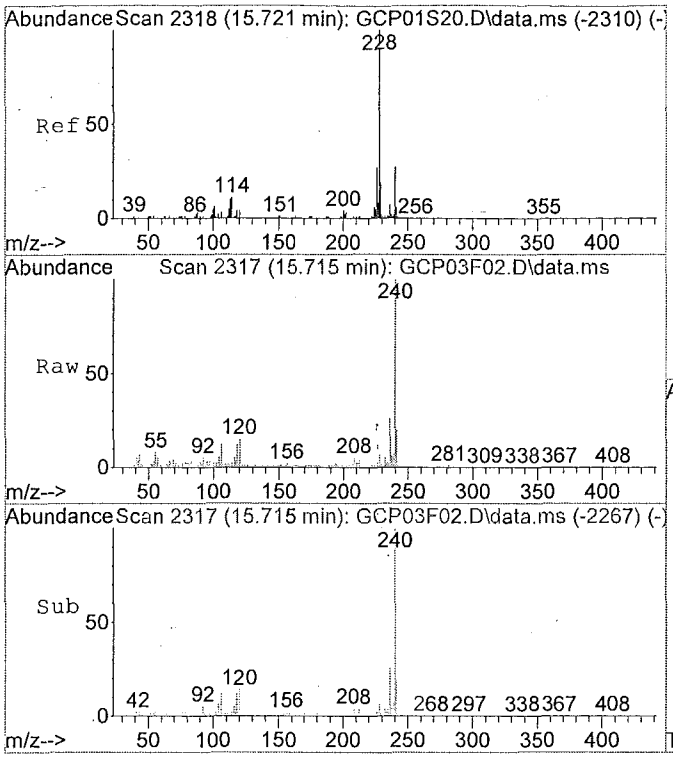


#74
Pyrene
Concen: 0.71 ug/ml
RT: 14.07 min Scan# 2037
Delta R.T. -0.01 min
Lab File: GCP03F02.D
Acq: 07/10/2015 10:54

Tgt Ion:202 Resp: 37039

Ion	Ratio	Lower	Upper
202	100		
101	12.8	12.2	22.7
100	0.0	10.1	18.7#
0	0.0	0.0	0.0

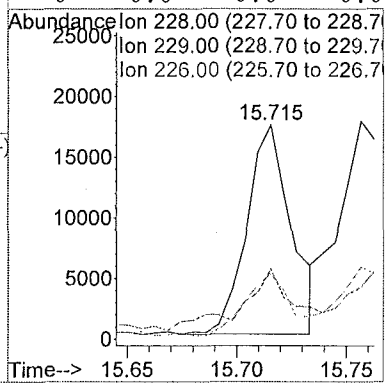


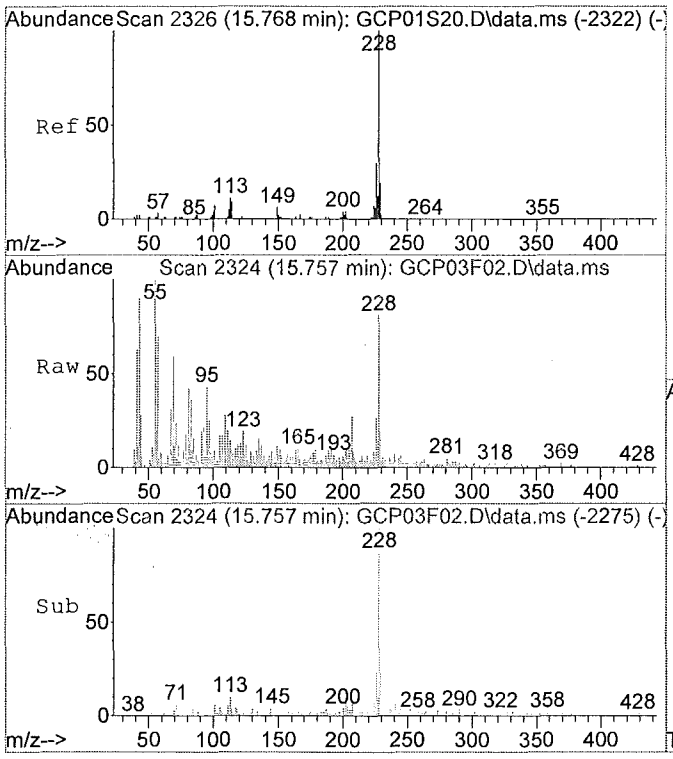


#78
Benzo(a)anthracene
Concen: 0.49 ug/ml
RT: 15.72 min Scan# 2317
Delta R.T. -0.01 min
Lab File: GCP03F02.D
Acq: 07/10/2015 10:54

Tgt Ion:228 Resp: 24351

Ion	Ratio	Lower	Upper
228	100		
229	34.4	13.7	25.5#
226	30.0	18.2	33.8
0	0.0	0.0	0.0

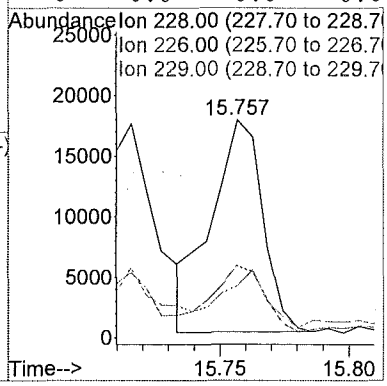


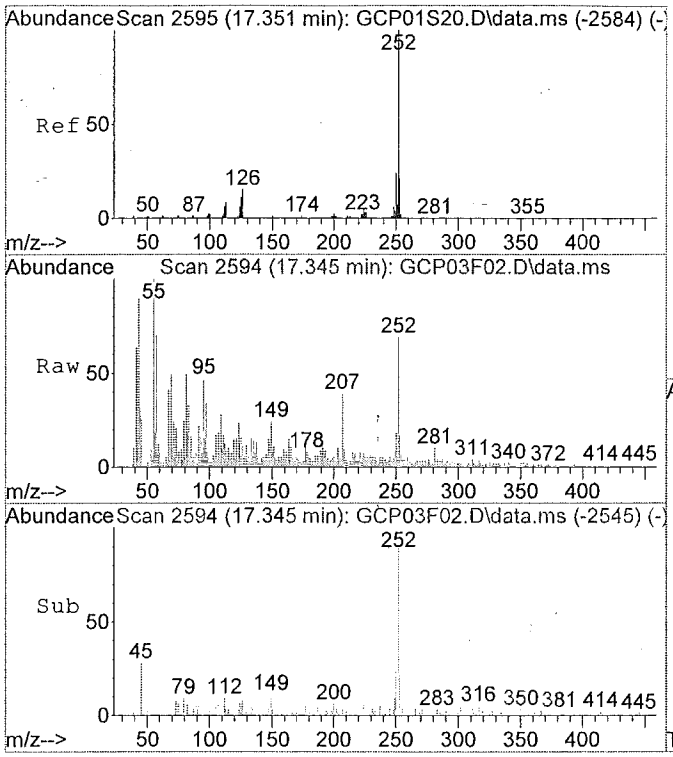


#79
Chrysene
Concen: 0.54 ug/ml
RT: 15.76 min Scan# 2324
Delta R.T. -0.01 min
Lab File: GCP03F02.D
Acq: 07/10/2015 10:54

Tgt Ion:228 Resp: 24338

Ion	Ratio	Lower	Upper
228	100		
226	31.6	20.1	37.3
229	22.8	13.7	25.5
0	0.0	0.0	0.0

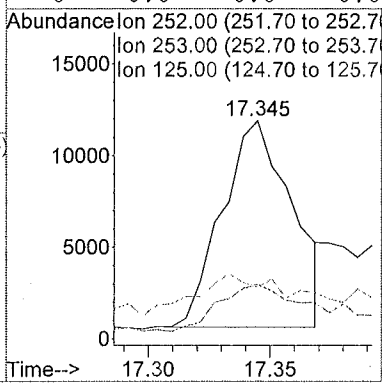




#83
Benzo(b)fluoranthene
Concen: 0.62 ug/ml m
RT: 17.34 min Scan# 2594
Delta R.T. -0.01 min
Lab File: GCP03F02.D
Acq: 07/10/2015 10:54

Tgt Ion:252 Resp: 22529

Ion	Ratio	Lower	Upper
252	100		
253	35.6	15.1	28.1#
125	28.1	10.6	19.8#
0	0.0	0.0	0.0



Library Search Compound Report

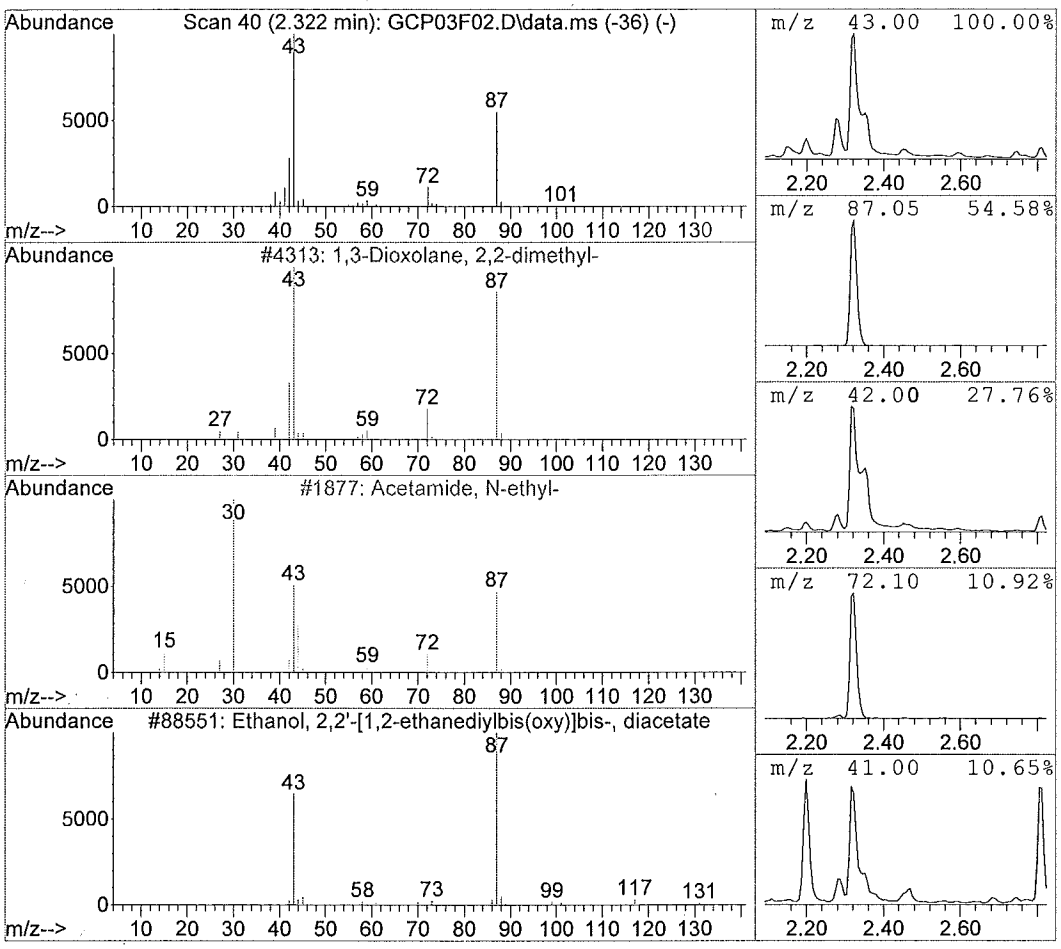
Data File : R:\G\2015\JUL15\10JUL15\GCP03F02.D
Acq On : 07/10/2015 10:54
Sample : 1515542002 F9M22
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 3
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
2.32	18.22 ug/ml	1491950	1,4-Dichlorobenzene-d4	1637808

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,3-Dioxolane, 2,2-dimethyl-	4313	002916-31-6	64.00
2	Acetamide, N-ethyl-	1877	000625-50-3	42.00
3	Ethanol, 2,2'-[1,2-ethanediylbis(ox	88551	000111-21-7	23.00
4	N,N-Dimethylacetamide	1886	000127-19-5	9.00
5	2-Propanone, O-methyloxime	1895	003376-35-0	9.00



Library Search Compound Report

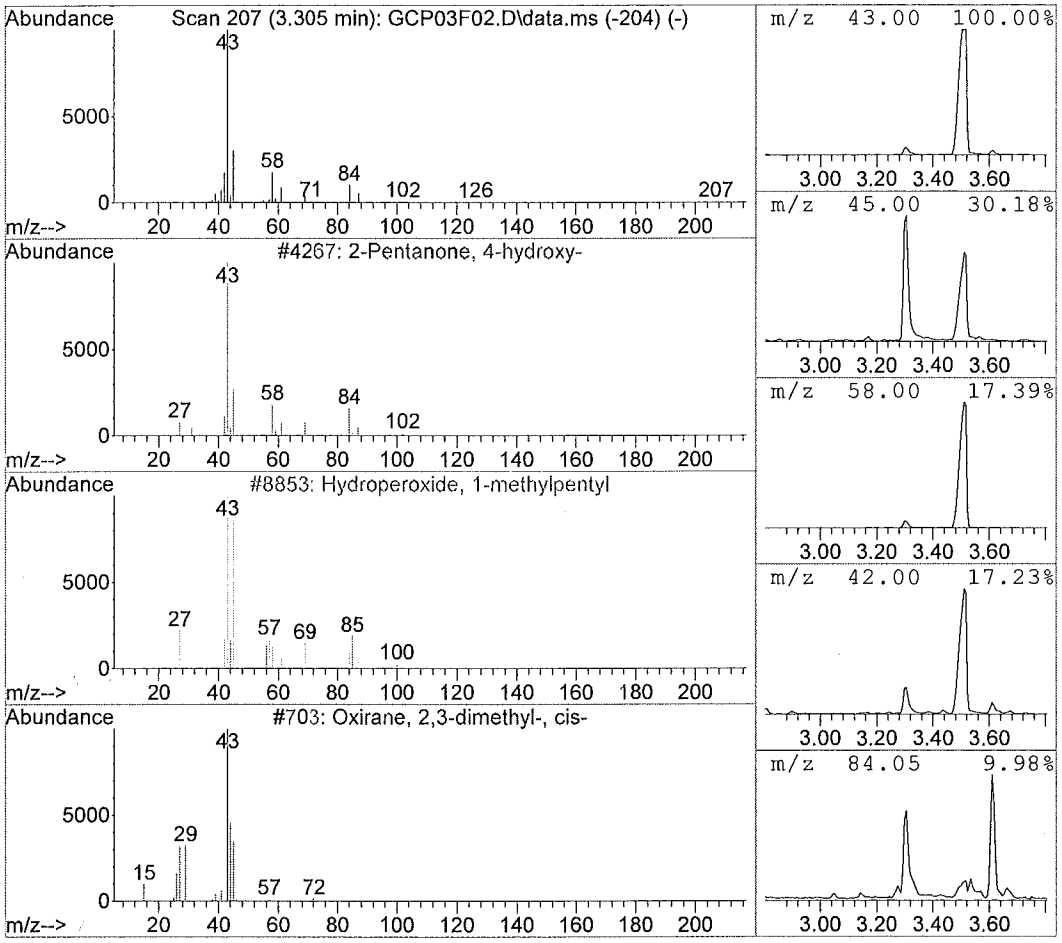
Data File : R:\G\2015\JUL15\10JUL15\GCP03F02.D
Acq On : 07/10/2015 10:54
Sample : 1515542002 F9M22
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 3
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	18.14 ug/ml	1485101	1,4-Dichlorobenzene-d4	1637808

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	40.00
2	Hydroperoxide, 1-methylpentyl	8853	024254-55-5	33.00
3	Oxirane, 2,3-dimethyl-, cis-	703	001758-33-4	17.00
4	Nitric acid, nonyl ester	52650	020633-13-0	9.00
5	Isopropyl acetate	4253	000108-21-4	9.00



Library Search Compound Report

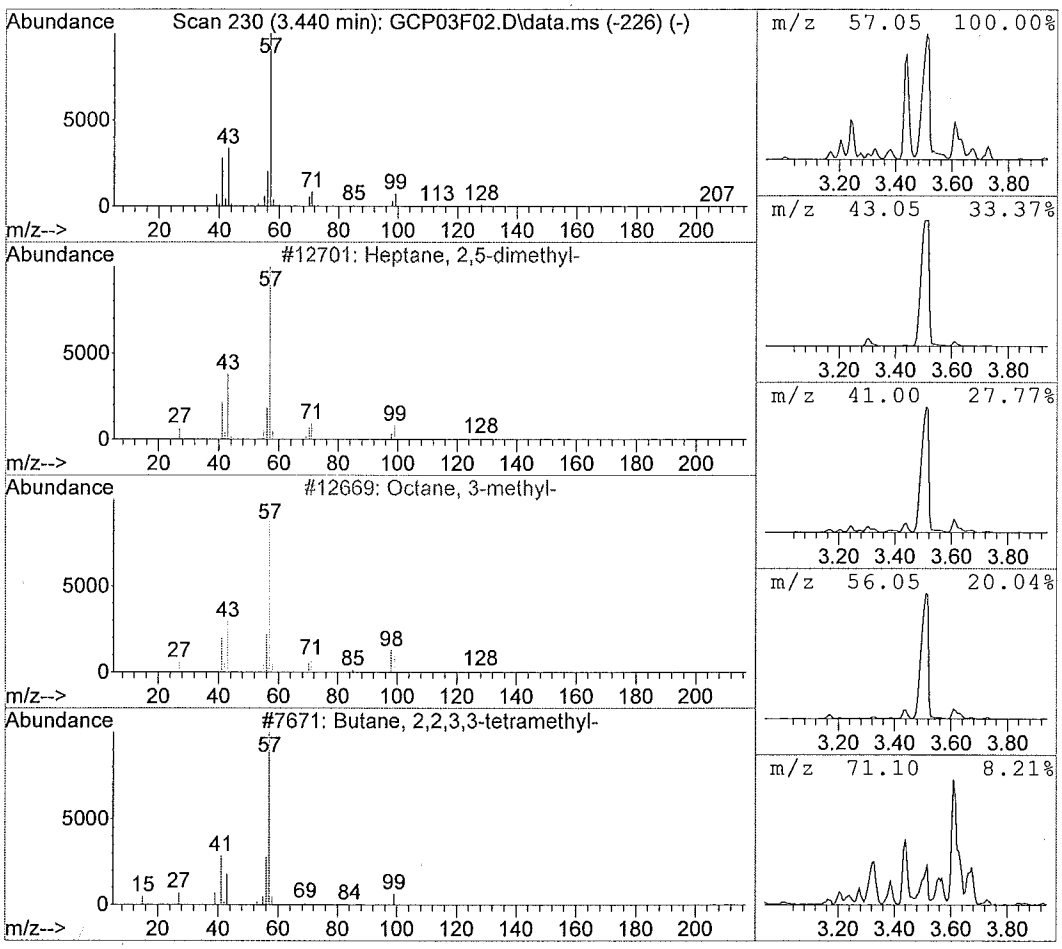
Data File : R:\G\2015\JUL15\10JUL15\GCP03F02.D Vial: 3
Acq On : 07/10/2015 10:54 Operator: TJM
Sample : 1515542002 F9M22 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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
3.44	6.78 ug/ml	554993	1,4-Dichlorobenzene-d4	1637808

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,5-dimethyl-	12701	002216-30-0	91.00
2	Octane, 3-methyl-	12669	002216-33-3	64.00
3	Butane, 2,2,3,3-tetramethyl-	7671	000594-82-1	59.00
4	Heptane, 3,5-dimethyl-	12698	000926-82-9	52.00
5	Heptane, 3-bromo-	44347	001974-05-6	47.00

BA



Library Search Compound Report

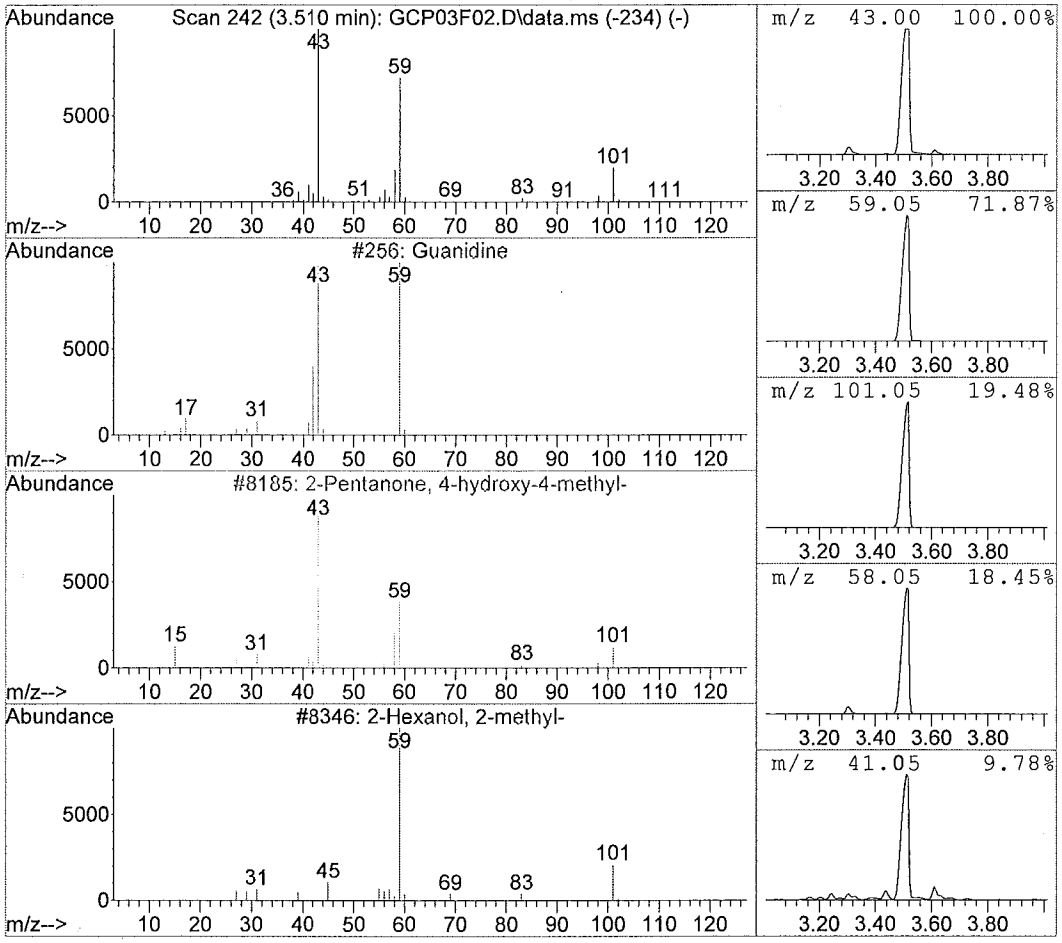
Data File : R:\G\2015\JUL15\10JUL15\GCP03F02.D
Acq On : 07/10/2015 10:54
Sample : 1515542002 F9M22
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 3
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
3.51	491.40 ug/ml	40241189	1,4-Dichlorobenzene-d4	1637808

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Guanidine	256	000113-00-8	43.00
2	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	40.00
3	2-Hexanol, 2-methyl-	8346	000625-23-0	33.00
4	3-Octanol	13639	000589-98-0	33.00
5	3-Hexanol, 4-methyl-	8344	000615-29-2	28.00



Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP03F02.D
Acq On : 07/10/2015 10:54
Sample : 1515542002 F9M22
Misc : . SOIL SOM
MS Integration Params: rteint.p

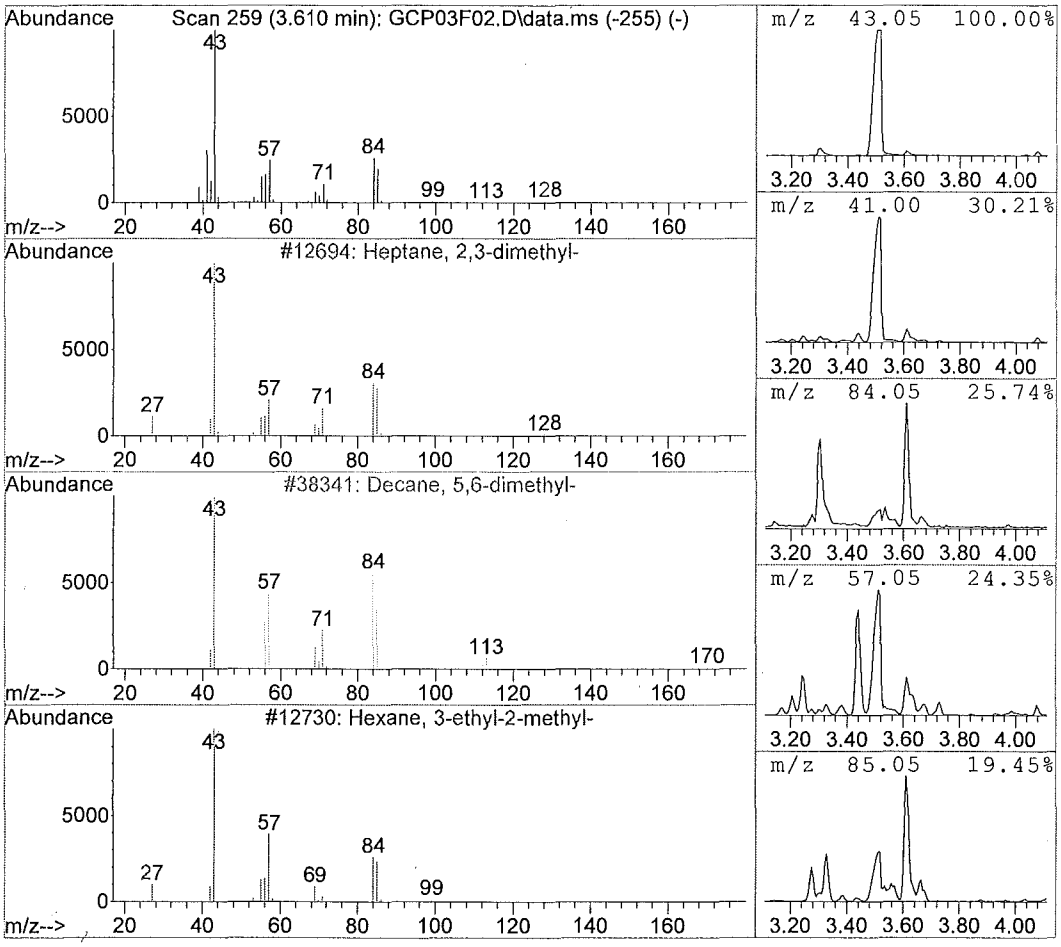
Vial: 3
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

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
3.61	12.16 ug/ml	995588	1,4-Dichlorobenzene-d4	1637808

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12694	003074-71-3	86.00
2	Decane, 5,6-dimethyl-	38341	001636-43-7	64.00
3	Hexane, 3-ethyl-2-methyl-	12730	016789-46-1	59.00
4	Heptane, 2,4-dimethyl-	12695	002213-23-2	53.00
5	Hexane, 3-ethyl-	7622	000619-99-8	50.00

BA



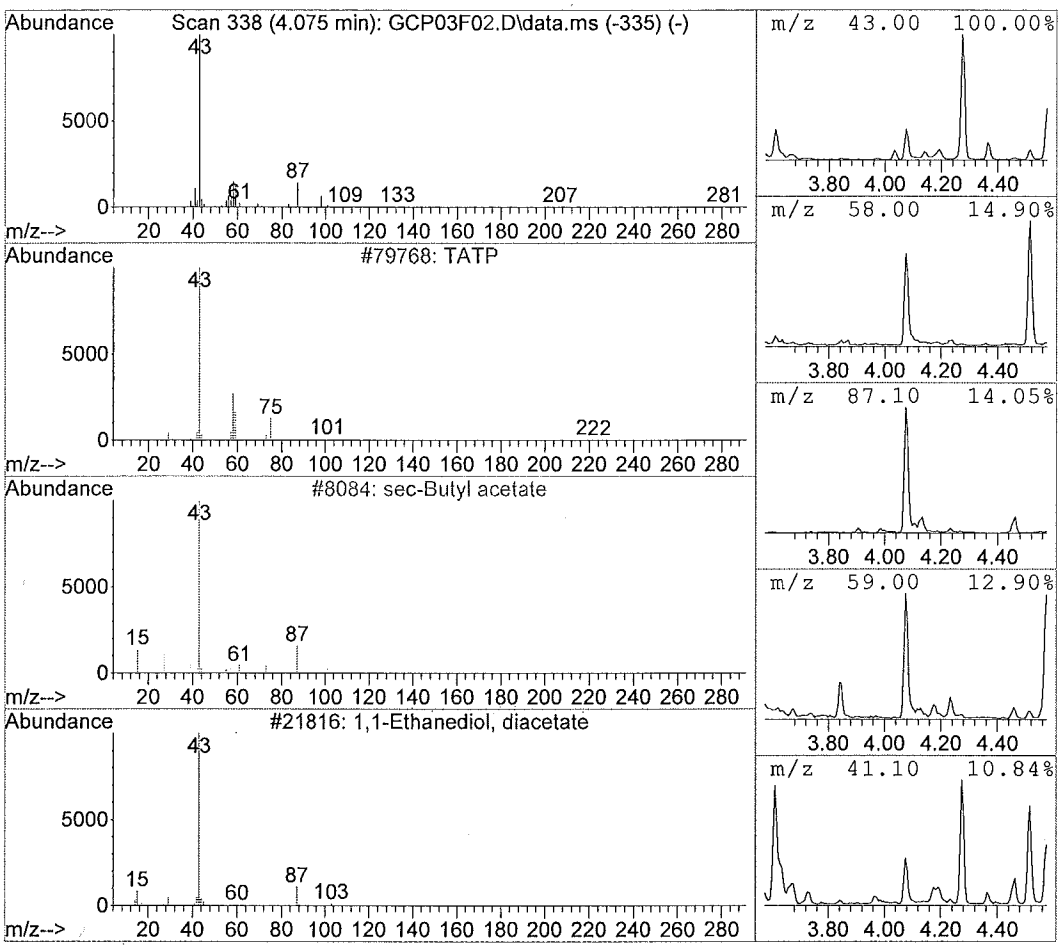
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP03F02.D Vial: 3
Acq On : 07/10/2015 10:54 Operator: TJM
Sample : 1515542002 F9M22 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
4.08	7.61 ug/ml	623482	1,4-Dichlorobenzene-d4	1637808

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	TATP	79768	017088-37-8	40.00
2	sec-Butyl acetate	8084	000105-46-4	25.00
3	1,1-Ethanediol, diacetate	21816	000542-10-9	17.00
4	1-Butanamine, 2-methyl-	1912	000096-15-1	9.00
5	1-Pentanamine	1907	000110-58-7	9.00



Library Search Compound Report

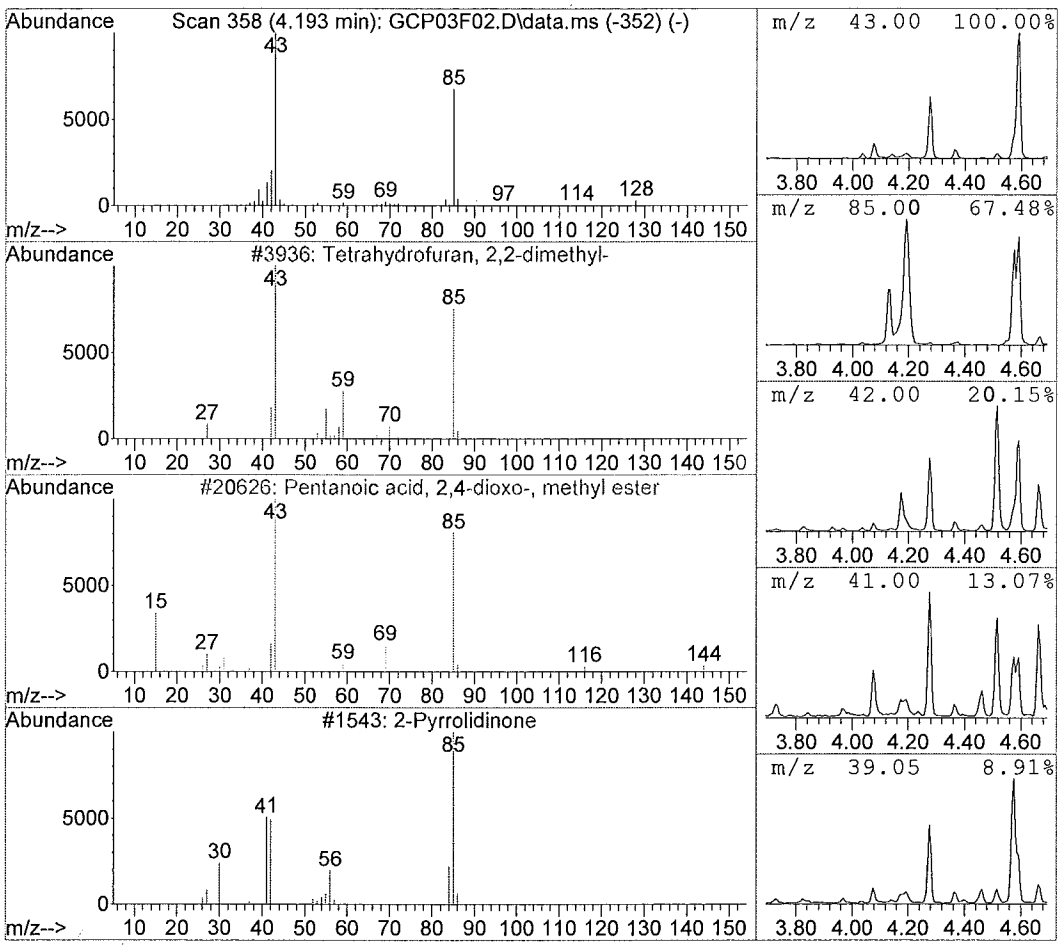
Data File : R:\G\2015\JUL15\10JUL15\GCP03F02.D
Acq On : 07/10/2015 10:54
Sample : 1515542002 F9M22
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 3
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
4.19	5.10 ug/ml	417669	1,4-Dichlorobenzene-d4	1637808

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetrahydrofuran, 2,2-dimethyl-	3936	001003-17-4	40.00
2	Pentanoic acid, 2,4-dioxo-, methyl	20626	020577-61-1	40.00
3	2-Pyrrolidinone	1543	000616-45-5	9.00
4	Tetrahydrofuran, 2-ethyl-5-methyl-	7611	000931-39-5	9.00
5	Thiazole	1535	000288-47-1	9.00



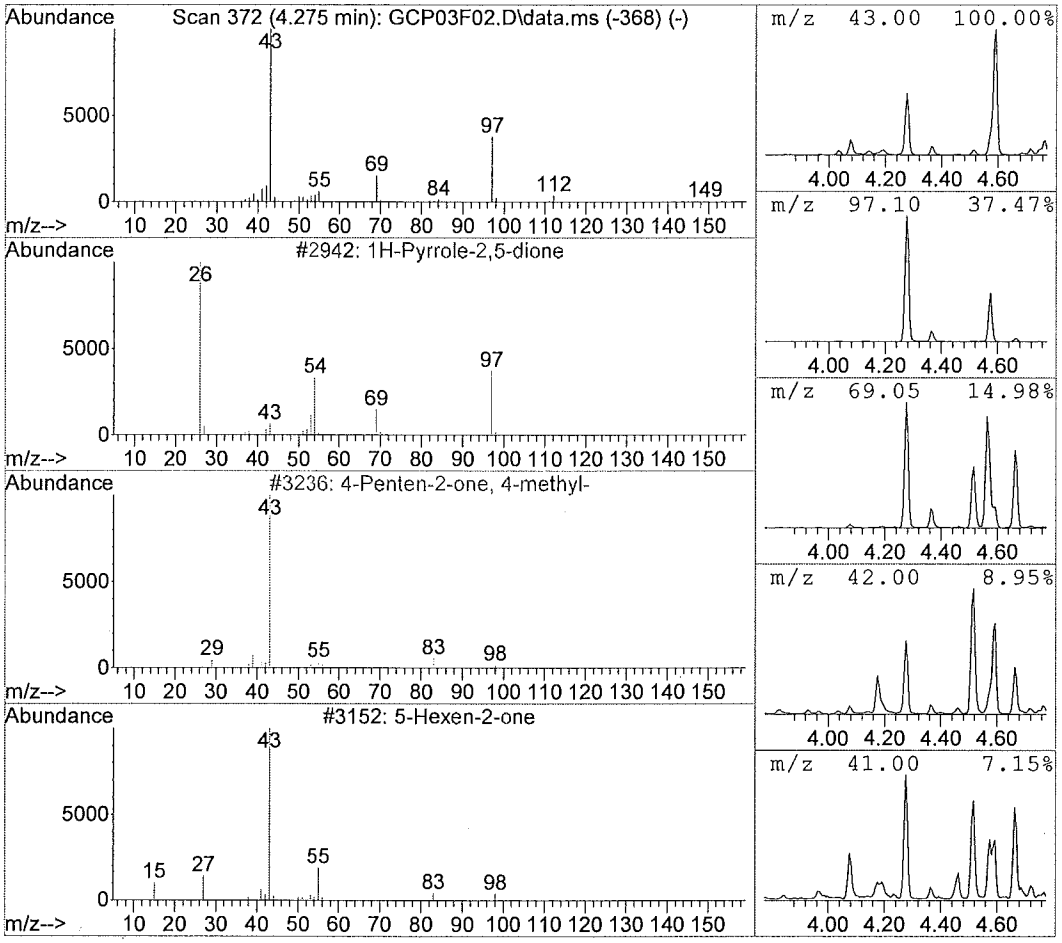
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP03F02.D Vial: 3
Acq On : 07/10/2015 10:54 Operator: TJM
Sample : 1515542002 F9M22 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	29.44 ug/ml	2411016	1,4-Dichlorobenzene-d4	1637808

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	32.00
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



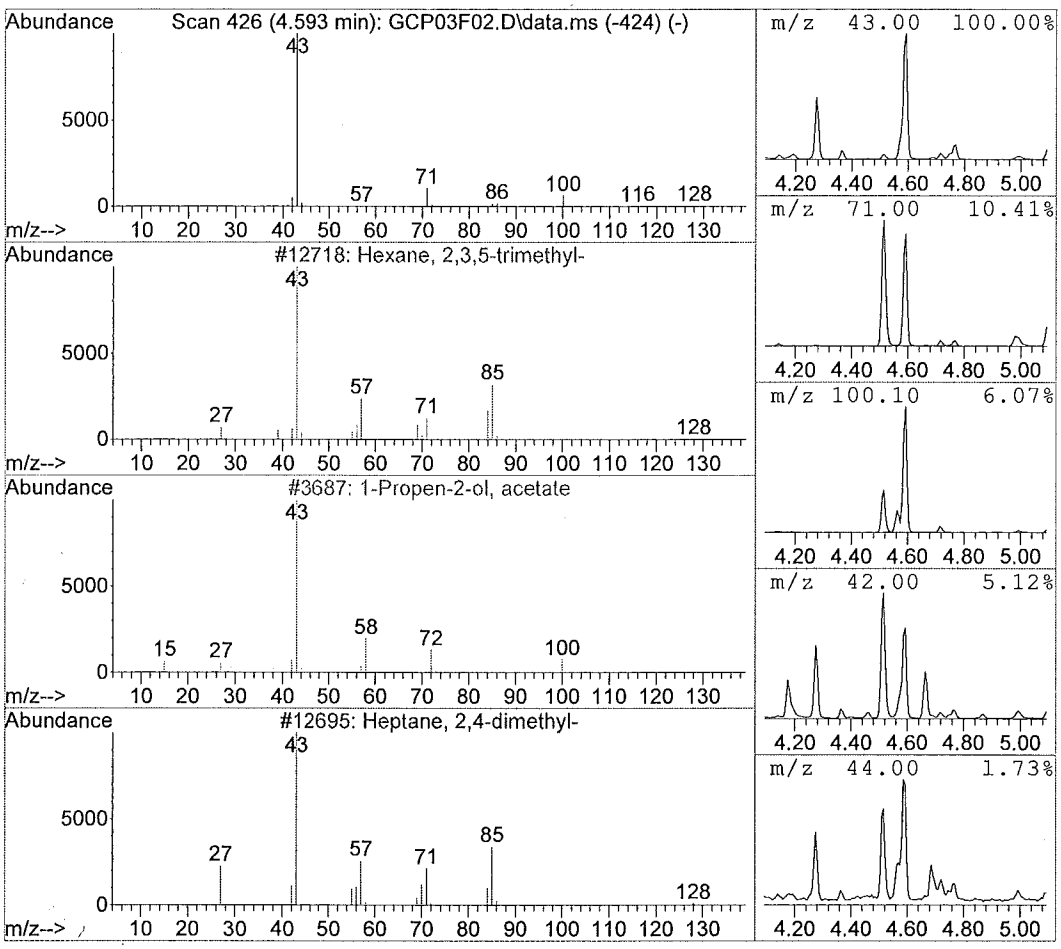
Data File : R:\G\2015\JUL15\10JUL15\GCP03F02.D Vial: 3
Acq On : 07/10/2015 10:54 Operator: TJM
Sample : 1515542002 F9M22 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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	34.75 ug/ml	2845976	1,4-Dichlorobenzene-d4	1637808

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	5.00
2	1-Propen-2-ol, acetate	3687	000108-22-5	5.00
3	Heptane, 2,4-dimethyl-	12695	002213-23-2	5.00
4	Hexane, 2,3,4-trimethyl-	12706	000921-47-1	5.00
5	Heptane	3973	000142-82-5	4.00

BA



Library Search Compound Report

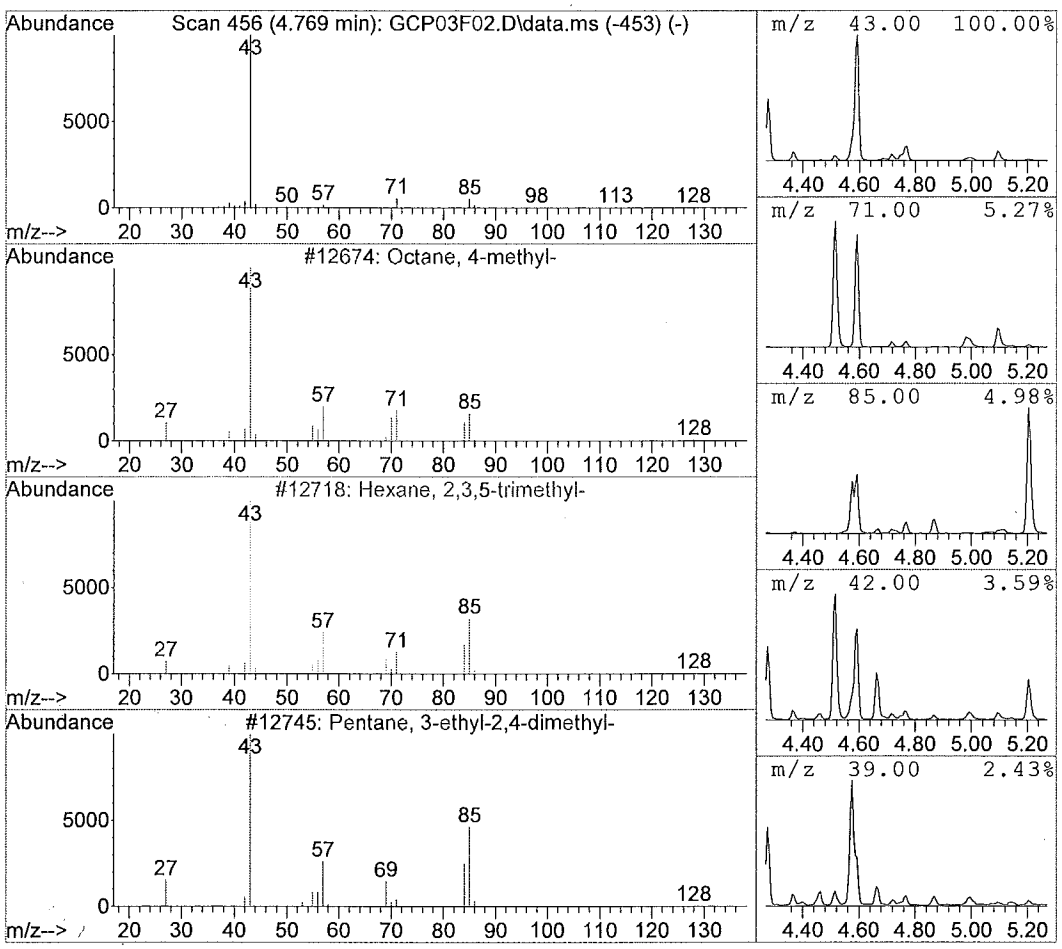
Data File : R:\G\2015\JUL15\10JUL15\GCP03F02.D Vial: 3
Acq On : 07/10/2015 10:54 Operator: TJM
Sample : 1515542002 F9M22 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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	5.17 ug/ml	423465	1,4-Dichlorobenzene-d4	1637808

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octane, 4-methyl-	12674	002216-34-4	5.00
2	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	5.00
3	Pentane, 3-ethyl-2,4-dimethyl-	12745	001068-87-7	5.00
4	Hexane, 2,3,4-trimethyl-	12706	000921-47-1	5.00
5	Heptane, 2,3-dimethyl-	12694	003074-71-3	4.00

BA



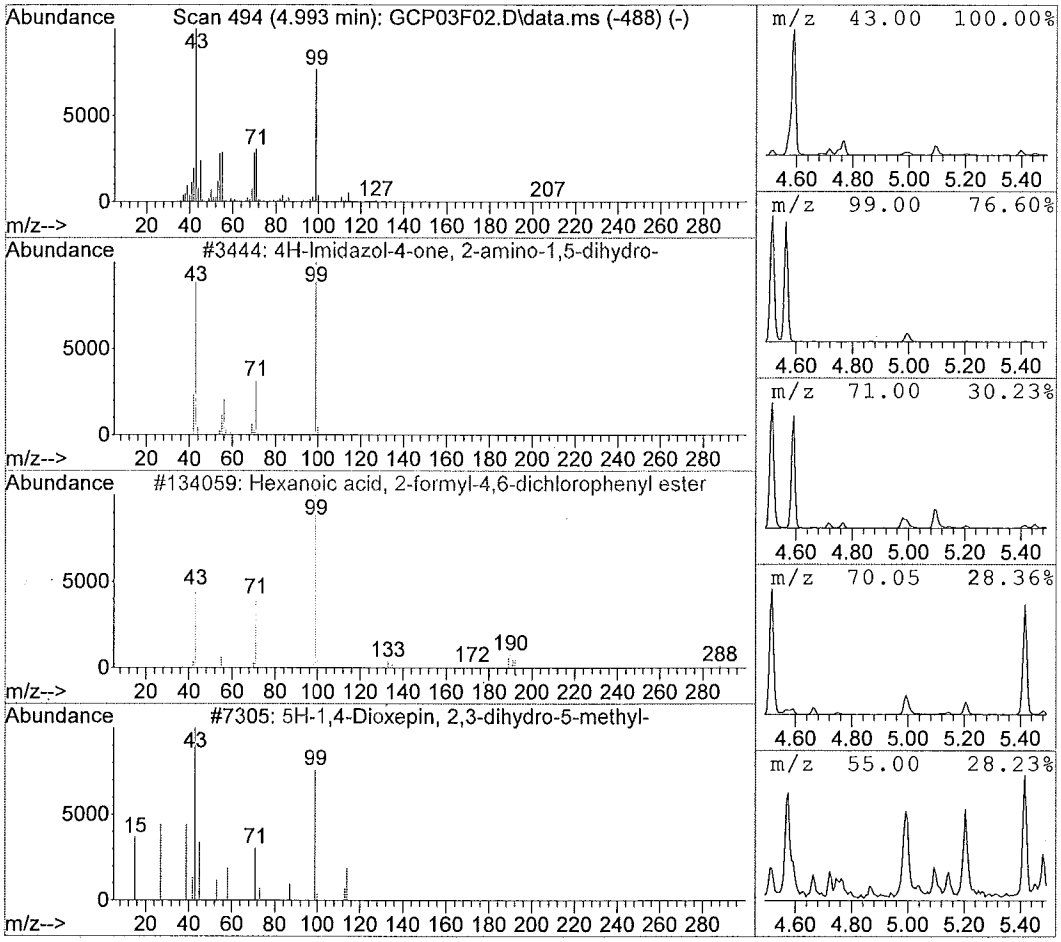
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP03F02.D Vial: 3
Acq On : 07/10/2015 10:54 Operator: TJM
Sample : 1515542002 F9M22 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	5.16 ug/ml	422483	1,4-Dichlorobenzene-d4	1637808

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4H-Imidazol-4-one, 2-amino-1,5-dihy	3444	000503-86-6	52.00
2	Hexanoic acid, 2-formyl-4,6-dichlor	134059	1000330-93-8	43.00
3	5H-1,4-Dioxepin, 2,3-dihydro-5-meth	7305	038653-36-0	42.00
4	1,3-Dioxolane, 2-(1-propenyl)-	7254	004528-26-1	40.00
5	3-Pentenoic acid, 4-methyl-	7227	000504-85-8	40.00



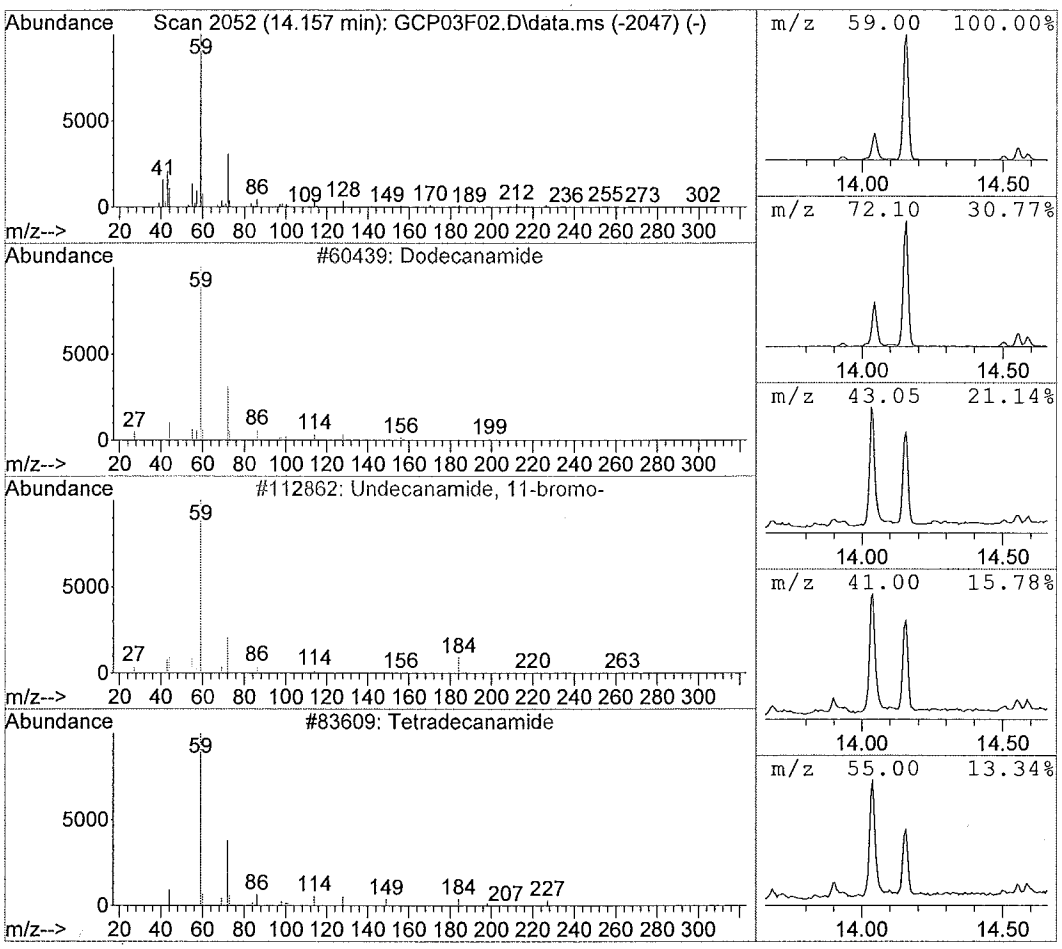
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP03F02.D Vial: 3
Acq On : 07/10/2015 10:54 Operator: TJM
Sample : 1515542002 F9M22 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
14.16	10.04 ug/ml	1340436	Chrysene-d12	2670108

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	83.00
2	Undecanamide, 11-bromo-	112862	005875-26-3	78.00
3	Tetradecanamide	83609	000638-58-4	72.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	64.00
5	Pentanamide	4064	000626-97-1	59.00



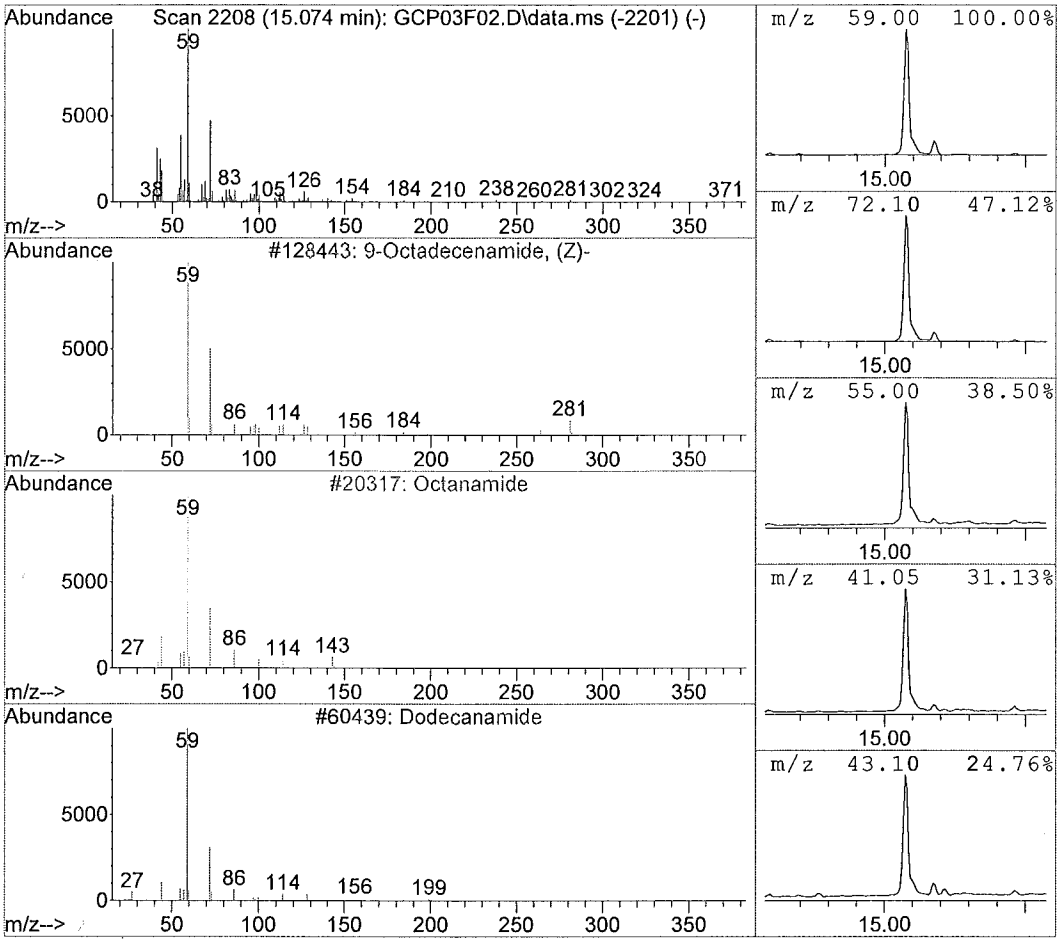
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP03F02.D Vial: 3
Acq On : 07/10/2015 10:54 Operator: TJM
Sample : 1515542002 F9M22 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	56.96 ug/ml	7604987	Chrysene-d12	2670108

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	93.00
2	Octanamide	20317	000629-01-6	80.00
3	Dodecanamide	60439	001120-16-7	72.00
4	7-Nonenamide	28131	090949-53-4	72.00
5	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	64.00



Library Search Compound Report

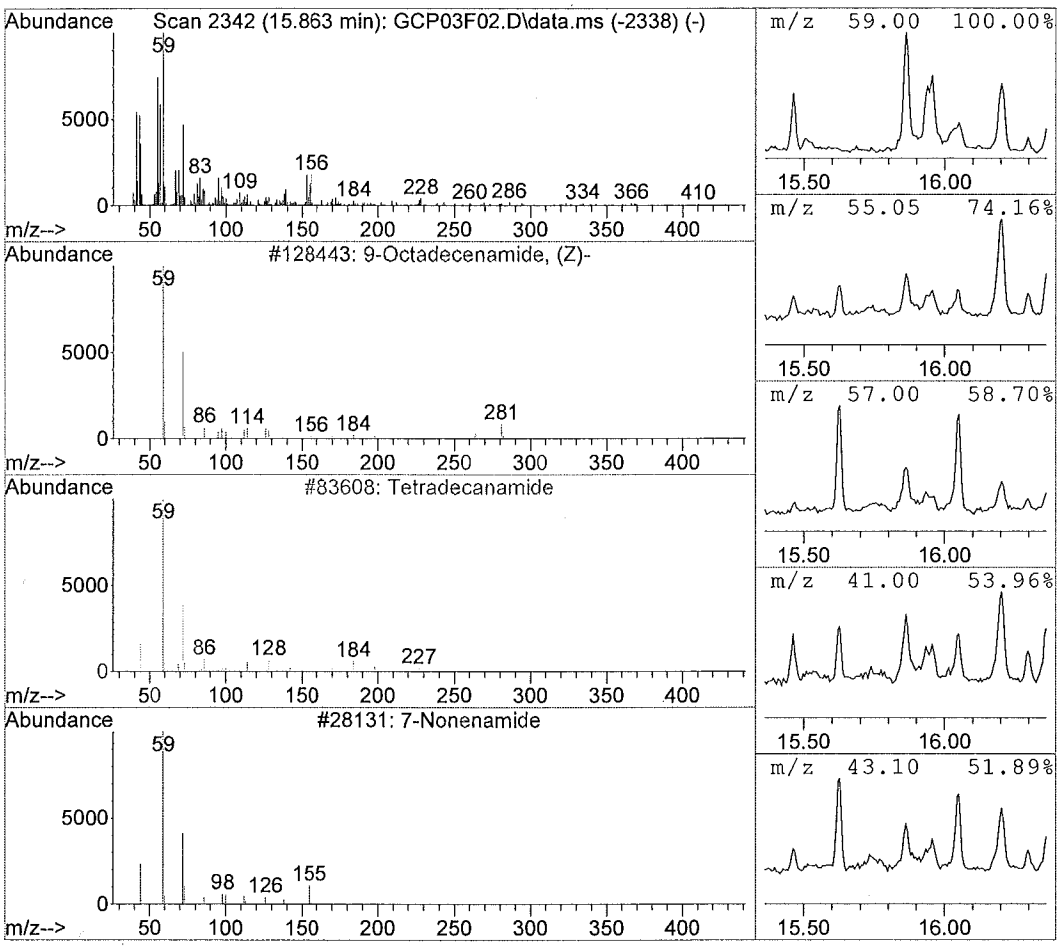
Data File : R:\G\2015\JUL15\10JUL15\GCP03F02.D
Acq On : 07/10/2015 10:54
Sample : 1515542002 F9M22
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 3
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	3.31 ug/ml	441904	Chrysene-d12	2670108

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	93.00
2	Tetradecanamide	83608	000638-58-4	62.00
3	7-Nonenamide	28131	090949-53-4	62.00
4	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	50.00
5	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	43.00

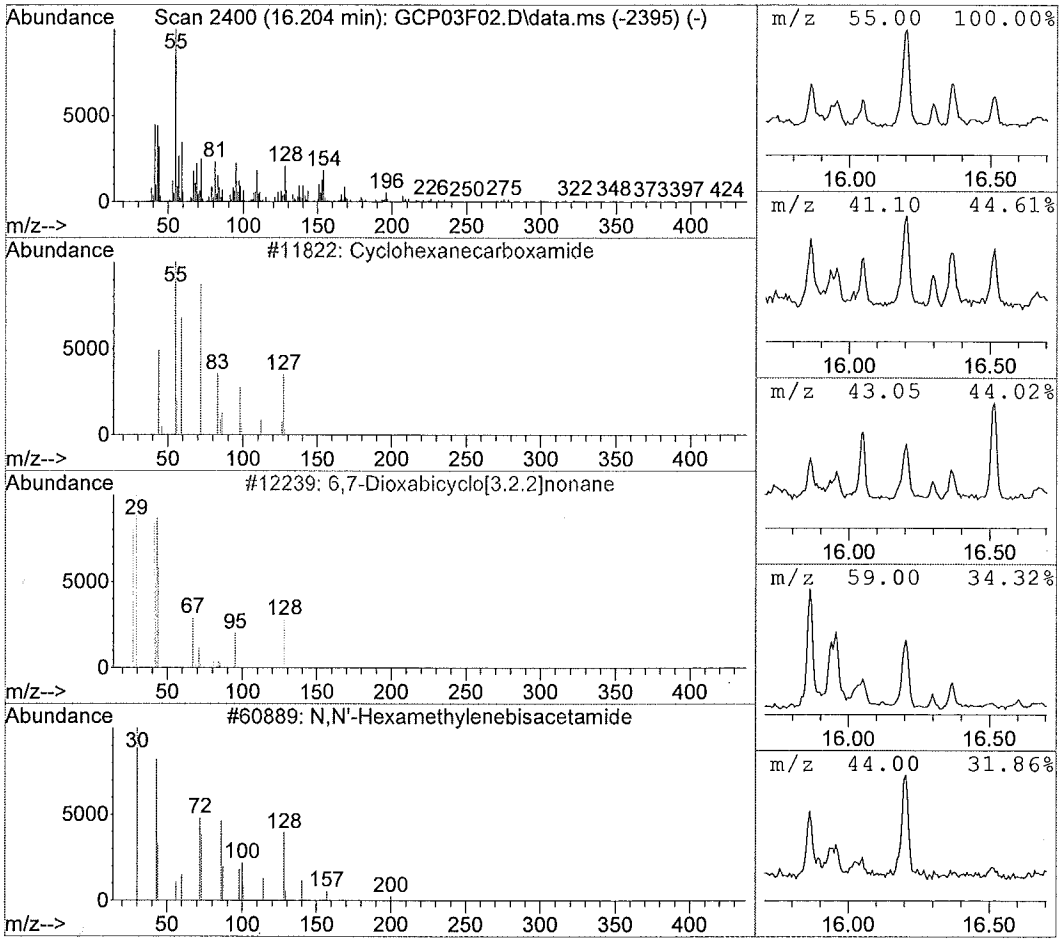


Data File : R:\G\2015\JUL15\10JUL15\GCP03F02.D Vial: 3
Acq On : 07/10/2015 10:54 Operator: TJM
Sample : 1515542002 F9M22 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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	5.79 ug/ml	772349	Chrysene-d12	2670108

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexanecarboxamide	11822	001122-56-1	14.00
2	6,7-Dioxabicyclo[3.2.2]nonane	12239	000283-35-2	11.00
3	N,N'-Hexamethylenebisacetamide	60889	003073-59-4	10.00
4	2-Cyclohexyl-isoxazolidin-5-ol	39400	052400-49-4	10.00
5	Glycine, furan-2-yl-methyl ester	28004	1000306-78-7	9.00



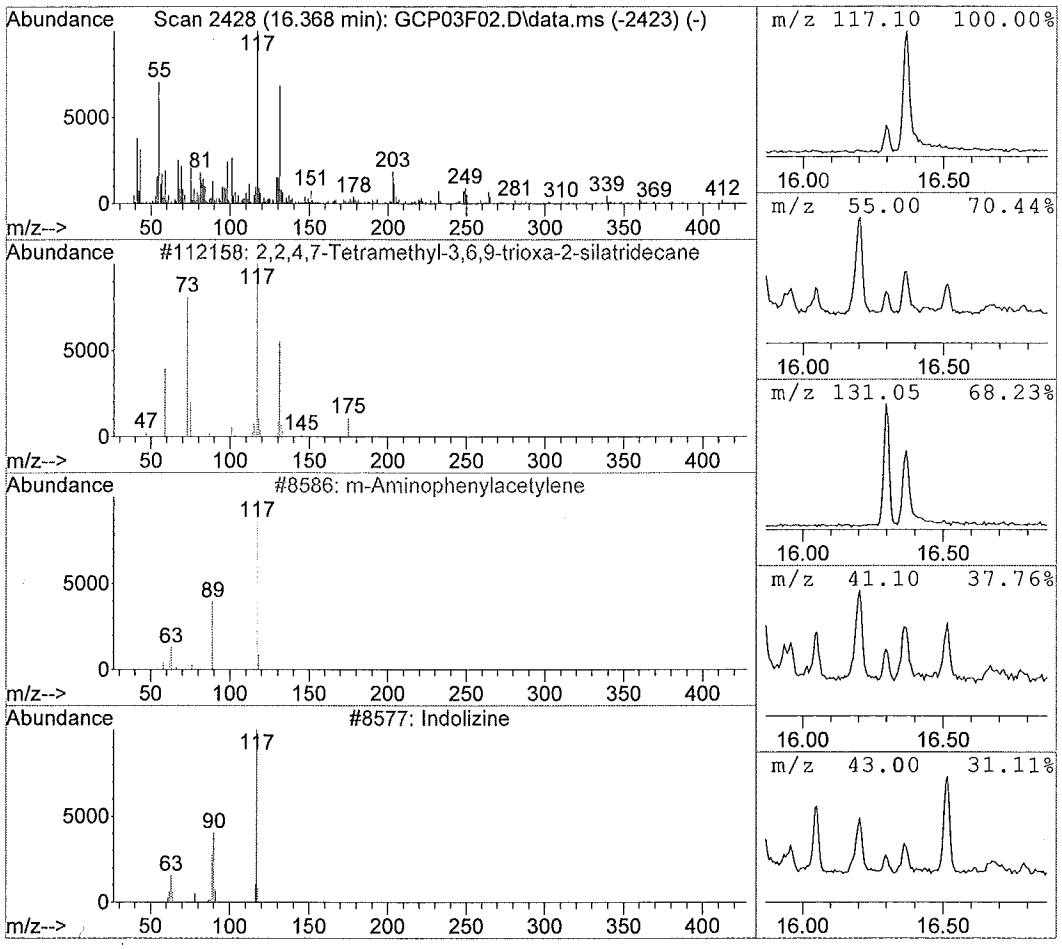
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP03F02.D Vial: 3
Acq On : 07/10/2015 10:54 Operator: TJM
Sample : 1515542002 F9M22 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
16.37	4.78 ug/ml	638180	Chrysene-d12	2670108

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,2,4,7-Tetramethyl-3,6,9-trioxa-2-	112158	1000367-03-5	47.00
2	m-Aminophenylacetylene	8586	054060-30-9	30.00
3	Indolizine	8577	000274-40-8	27.00
4	Indole	8576	000120-72-9	27.00
5	Cyclohexylphenylacetonitrile	60567	003893-23-0	27.00



Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP03F02.D
Acq On : 07/10/2015 10:54
Sample : 1515542002 F9M22
Misc : . SOIL SOM
MS Integration Params: rteint.p

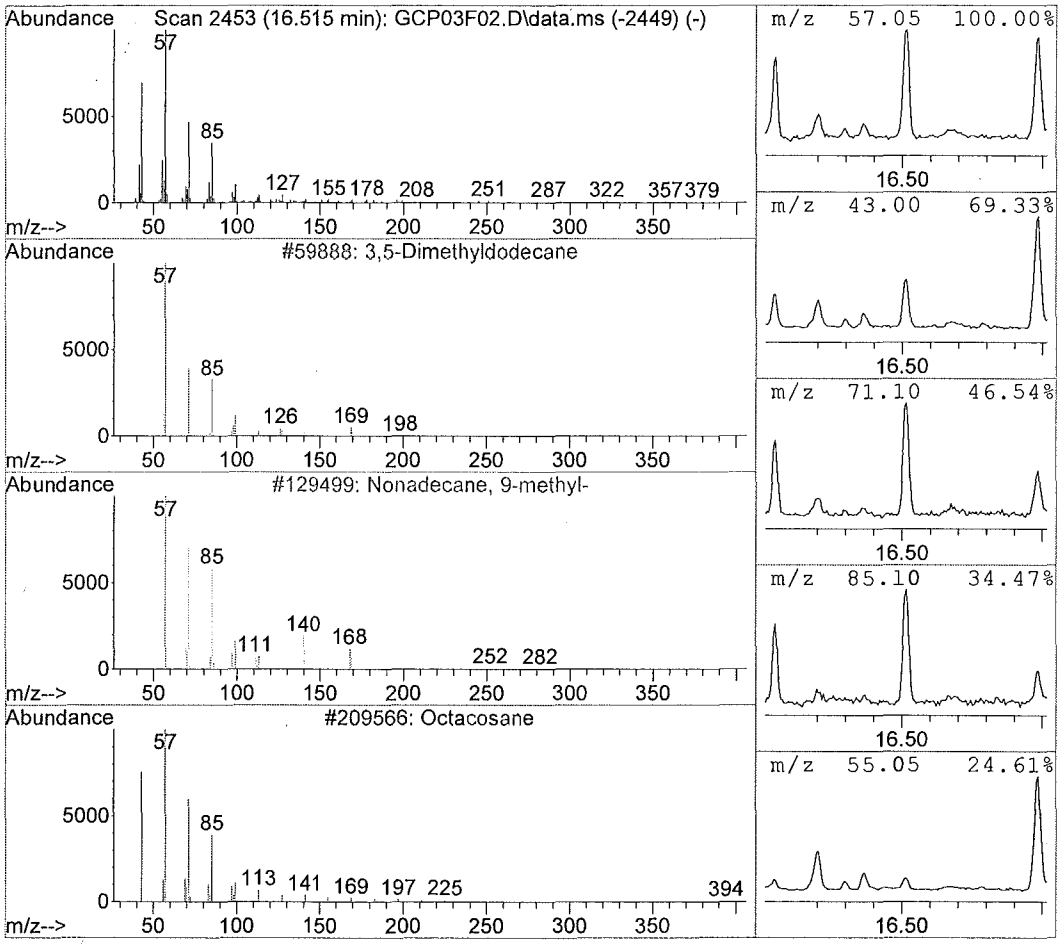
Vial: 3
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

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
16.52	3.46 ug/ml	461443	Chrysene-d12	2670108

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3,5-Dimethyldodecane	59888	107770-99-0	90.00
2	Nonadecane, 9-methyl-	129499	013287-24-6	90.00
3	Octacosane	209566	000630-02-4	87.00
4	Tetracosane	175557	000646-31-1	86.00
5	Hexadecane	83025	000544-76-3	86.00

BA



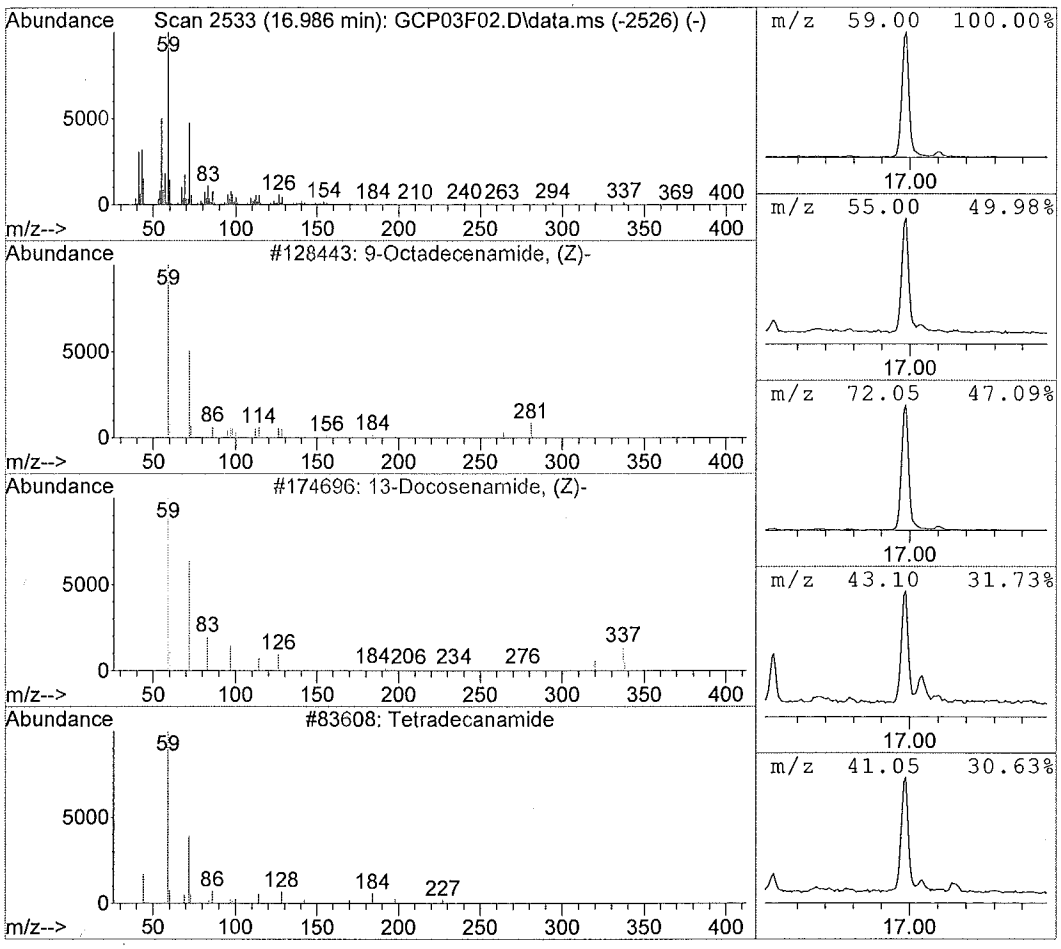
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP03F02.D Vial: 3
Acq On : 07/10/2015 10:54 Operator: TJM
Sample : 1515542002 F9M22 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
16.99	38.16 ug/ml	3328731	Perylene-d12	1744771

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	86.00
2	13-Docosenamide, (Z)-	174696	000112-84-5	58.00
3	Tetradecanamide	83608	000638-58-4	50.00
4	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	50.00
5	Hexadecanamide	106564	000629-54-9	45.00



Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP03F02.D
Acq On : 07/10/2015 10:54
Sample : 1515542002 F9M22
Misc : . SOIL SOM
MS Integration Params: rteint.p

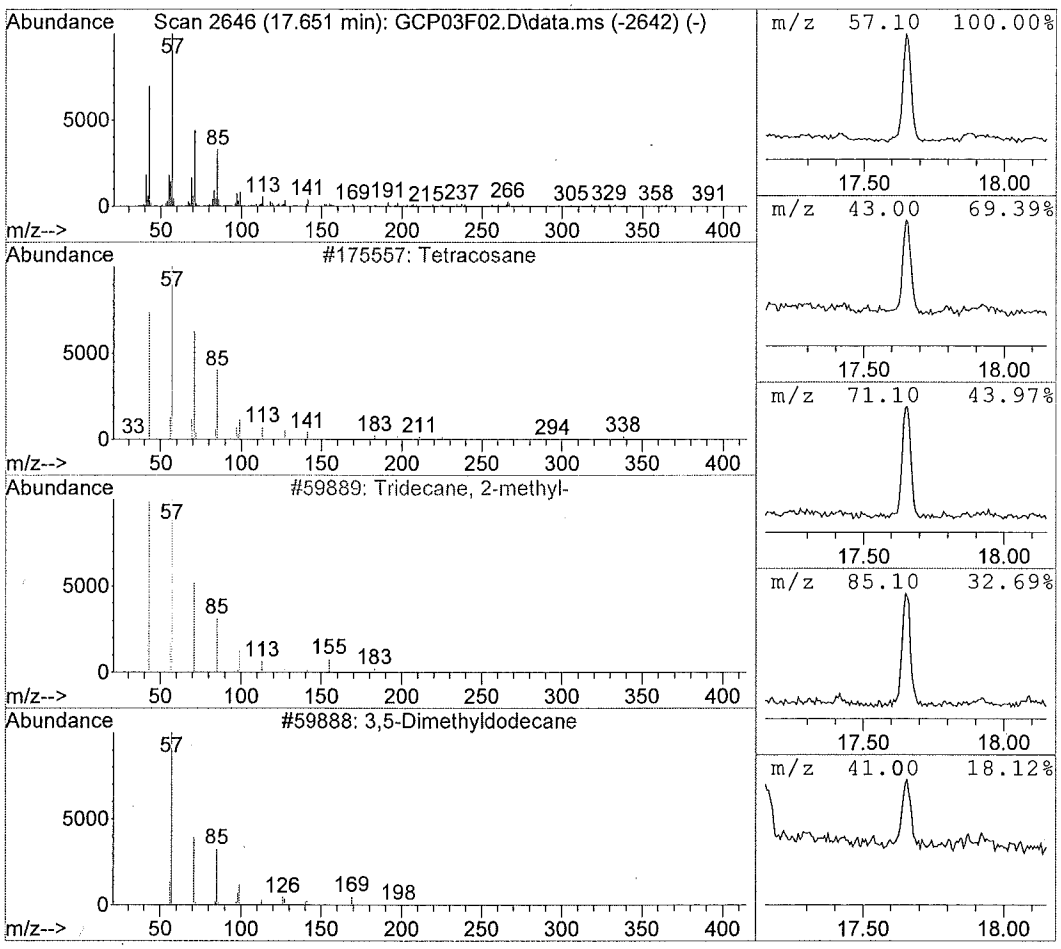
Vial: 3
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

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	6.04 ug/ml	527212	Perylene-d12	1744771

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetracosane	175557	000646-31-1	87.00
2	Tridecane, 2-methyl-	59889	001560-96-9	81.00
3	3,5-Dimethyldodecane	59888	107770-99-0	80.00
4	Octacosane	209566	000630-02-4	80.00
5	Heptadecane, 3-methyl-	105891	006418-44-6	80.00

SCA



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M23

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBK07F03

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

% Moisture: 15. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2015

GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 30.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	6000	U
108-95-2	Phenol	6000	U
111-44-4	Bis(2-chloroethyl)ether	6000	U
95-57-8	2-Chlorophenol	6000	U
95-48-7	2-Methylphenol	6000	U
108-60-1	2,2'-Oxybis(1-chloropropane)	6000	U
98-86-2	Acetophenone	6000	U
106-44-5	4-Methylphenol	6000	U
621-64-7	N-Nitroso-di-n-propylamine	6000	U
67-72-1	Hexachloroethane	6000	U
98-95-3	Nitrobenzene	6000	U
78-59-1	Isophorone	6000	U
88-75-5	2-Nitrophenol	6000	U
105-67-9	2,4-Dimethylphenol	6000	U
111-91-1	Bis(2-chloroethoxy)methane	6000	U
120-83-2	2,4-Dichlorophenol	6000	U
91-20-3	Naphthalene	6000	U
106-47-8	4-Chloroaniline	6000	U
87-68-3	Hexachlorobutadiene	6000	U
105-60-2	Caprolactam	6000	U
59-50-7	4-Chloro-3-methylphenol	6000	U
91-57-6	2-Methylnaphthalene	6000	U
77-47-4	Hexachlorocyclopentadiene	6000	U
88-06-2	2,4,6-Trichlorophenol	6000	U
95-95-4	2,4,5-Trichlorophenol	6000	U
92-52-4	1,1'-Biphenyl	6000	U
91-58-7	2-Chloronaphthalene	6000	U
88-74-4	2-Nitroaniline	12000	U
131-11-3	Dimethylphthalate	6000	U
606-20-2	2,6-Dinitrotoluene	6000	U
208-96-8	Acenaphthylene	6000	U
99-09-2	3-Nitroaniline	12000	U
83-32-9	Acenaphthene	830	J

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M23

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBK07F03

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

% Moisture: 15. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2015

GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 30.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	12000	U
100-02-7	4-Nitrophenol	12000	U
132-64-9	Dibenzofuran	6000	U
121-14-2	2,4-Dinitrotoluene	6000	U
84-66-2	Diethylphthalate	6000	U
86-73-7	Fluorene	1800	J
7005-72-3	4-Chlorophenyl-phenylether	6000	U
100-01-6	4-Nitroaniline	12000	U
534-52-1	4,6-Dinitro-2-methylphenol	12000	U
86-30-6	N-Nitrosodiphenylamine[1]	6000	U
95-94-3	1,2,4,5-Tetrachlorobenzene	6000	U
101-55-3	4-Bromophenyl-phenylether	6000	U
118-74-1	Hexachlorobenzene	6000	U
1912-24-9	Atrazine	6000	U
87-86-5	Pentachlorophenol	12000	U
85-01-8	Phenanthrene	5800	J
120-12-7	Anthracene	2600	J
86-74-8	Carbazole	6000	U
84-74-2	Di-n-butylphthalate	6000	U
206-44-0	Fluoranthene	1800	J
129-00-0	Pyrene	19000	
85-68-7	Butylbenzylphthalate	6000	U
91-94-1	3,3'-Dichlorobenzidine	6000	U
56-55-3	Benzo(a)anthracene	1900	J
218-01-9	Chrysene	2600	J
117-81-7	Bis(2-ethylhexyl)phthalate	6000	U
117-84-0	Di-n-octylphthalate	6000	U
205-99-2	Benzo(b)fluoranthene	650	J
207-08-9	Benzo(k)fluoranthene	6000	U
50-32-8	Benzo(a)pyrene	1900	J
193-39-5	Indeno(1,2,3-cd)pyrene	6000	U
53-70-3	Dibenzo(a,h)anthracene	6000	U
191-24-2	Benzo(g,h,i)perylene	550	J
58-90-2	2,3,4,6-Tetrachlorophenol	6000	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9M23

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBK07F03

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

% Moisture: 15. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2015

GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 30.0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.56	9600	JB
02	2027-17-0	Naphthalene, 2-(1-methylethyl)-	9.22	7800	JN
03	2131-42-2	Naphthalene, 1,4,6-trimethyl-	9.37	6200	JN
04	2131-41-1	Naphthalene, 1,4,5-trimethyl-	9.74	5200	JN
05	33930-85-7	Benzene, (4,5,5-trimethyl-1,3-cyclopentadien-1-y	10.49	5700	JN
06		Unknown 9H-Fluorene, 1-methyl-	10.96	6200	J
07	1430-97-3	9H-Fluorene, 2-methyl-	11.00	4700	JN
08		Unknown 4,4'-Dimethylbiphenyl	11.23	4600	J
09		Unknown 9H-Fluorene, 9,9-dimethyl-	11.89	6100	J
10	31317-07-4	1-Methyldibenzothiophene	12.26	6400	JN
11	2531-84-2	Phenanthrene, 2-methyl-	12.59	5800	JN
12	949-41-7	1H-Cyclopropa[l]phenanthrene,1a,9b-dihydro-	12.64	12000	JN
13	949-41-7	1H-Cyclopropa[l]phenanthrene,1a,9b-dihydro-	12.79	8900	JN
14	3674-66-6	Phenanthrene, 2,5-dimethyl-	13.60	12000	JN
15		Unknown Anthracene, 1,4-dimethyl-	13.64	12000	J
16	1576-67-6	Phenanthrene, 3,6-dimethyl-	13.69	4500	JN
17	3674-73-5	Phenanthrene, 2,3,5-trimethyl-	14.32	5500	JN
18	2381-21-7	Pyrene, 1-methyl-	14.82	5800	JN
19	2381-21-7	Pyrene, 1-methyl-	14.94	8400	JN
20	2381-21-7	Pyrene, 1-methyl-	14.99	8100	JN
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

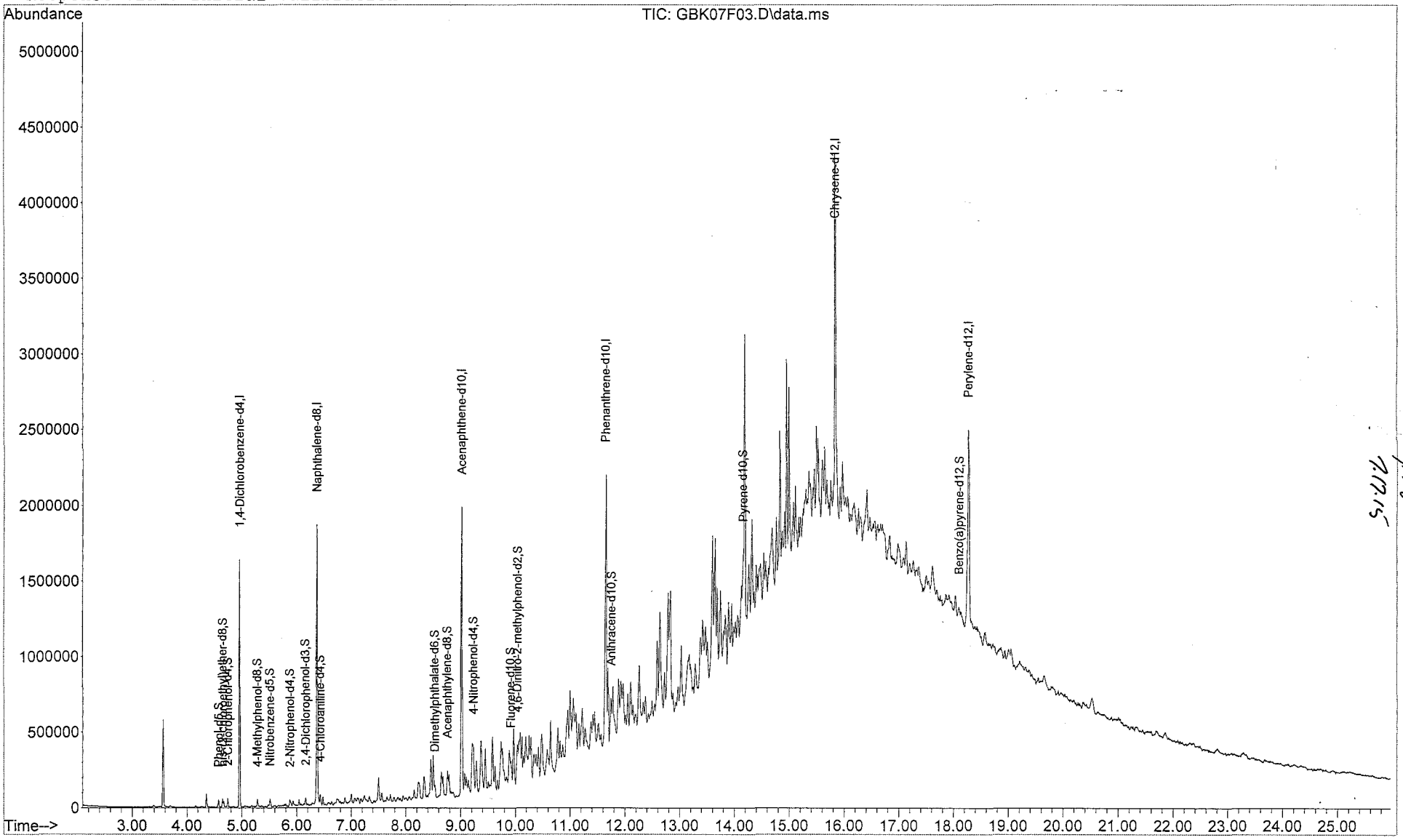
[2] EPA-designated Registry Number.

Quantitation Report

Data File : R:\G\2015\JUN15\12JUN15\12JUN15\GBK07F03.D Vial: 6
Acq On : 06/12/2015 19:24 Operator: DJC
Sample : 1515542003 F9M23 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 17 08:00:54 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\12JUN15\12JUN15\GBK07F03.D Vial: 6
Acq On : 06/12/2015 19:24 Operator: DJC
Sample : 1515542003 F9M23 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 17 08:00:54 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	299613	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1120798	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	651208	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1095066	20.00 ug/ml
73) Chrysene-d12	15.84	240	1104801	20.00 ug/ml
81) Perylene-d12	18.27	264	986208	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	19654	0.941ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	11547	0.903ug/mL
7) 2-Chlorophenol-d4	4.74	132	20023	0.976ug/ml
13) 4-Methylphenol-d8	5.28	113	14976	0.921ug/mL
17) Nitrobenzene-d5	5.51	128	9527	1.013ug/ml
21) 2-Nitrophenol-d4	5.87	143	10609	1.012ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	15588	1.015ug/mL
28) 4-Chloroaniline-d4	6.43	131	26345	1.582ug/mL
42) Dimethylphthalate-d6	8.53	166	49131	1.241ug/mL
45) Acenaphthylene-d8	8.75	160	62206	1.177ug/mL
50) 4-Nitrophenol-d4	9.24	143	6602	0.783ug/mL
57) Fluorene-d10	9.92	176	46479	1.351ug/mL
61) 4,6-Dinitro-2-methylphenol	10.05	200	6805	0.946ug/mL
69) Anthracene-d10	11.75	188	73544	1.328ug/mL
75) Pyrene-d10	14.16	212	64990	1.294ug/mL
86) Benzo(a)pyrene-d12	18.09	264	56768	1.269ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	0.00	77		Not Detected
4) Phenol	0.00	94		Not Detected
5) Bis(2-chloroethyl)ether	0.00	93		Not Detected
8) 2-Chlorophenol	0.00	128		Not Detected
9) 2-Methylphenol	0.00	108		Not Detected
10) 2,2'-Oxybis-(1-chloropropa	0.00	45		Not Detected
11) Acetophenone	0.00	105		Not Detected
12) 4-methylphenol	0.00	108		Not Detected
14) N-Nitroso-di-n-propylamine	0.00	70		Not Detected
15) Hexachloroethane	0.00	117		Not Detected
18) Nitrobenzene	0.00	77		Not Detected
19) Isophorone	0.00	82		Not Detected
20) 2-Nitrophenol	0.00	139		Not Detected
22) 2,4-Dimethylphenol	0.00	107		Not Detected
23) Bis(2-chloroethoxy)methane	0.00	93		Not Detected
24) 2,4-Dichlorophenol	0.00	162		Not Detected
26) Naphthalene	0.00	128		Not Detected
27) 4-Chloroaniline	0.00	127		Not Detected
29) Hexachlorobutadiene	0.00	225		Not Detected
30) Caprolactam	0.00	113		Not Detected
31) 4-Chloro-3-methylphenol	0.00	107		Not Detected
32) 2-Methylnaphthalene	0.00	142		Not Detected
34) 1,2,4,5-Tetrachlorobenzene	0.00	216		Not Detected
35) Hexachlorocyclopentadiene	0.00	237		Not Detected
36) 2,4,6-Trichlorophenol	0.00	196		Not Detected
37) 2,4,5-Trichlorophenol	0.00	196		Not Detected
38) 1,1'-Biphenyl	0.00	154		Not Detected
39) 2-Chloronaphthalene	0.00	162		Not Detected
40) 2-Nitroaniline	0.00	65		Not Detected
41) Dimethylphthalate	0.00	163		Not Detected
43) 2,6-Dinitrotoluene	0.00	165		Not Detected

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

Quantitation Report

Data File : R:\G\2015\JUN15\12JUN15\12JUN15\GBK07F03.D Vial: 6
Acq On : 06/12/2015 19:24 Operator: DJC
Sample : 1515542003 F9M23 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 17 08:00:54 2015 Results File: GSOM01D4.RES

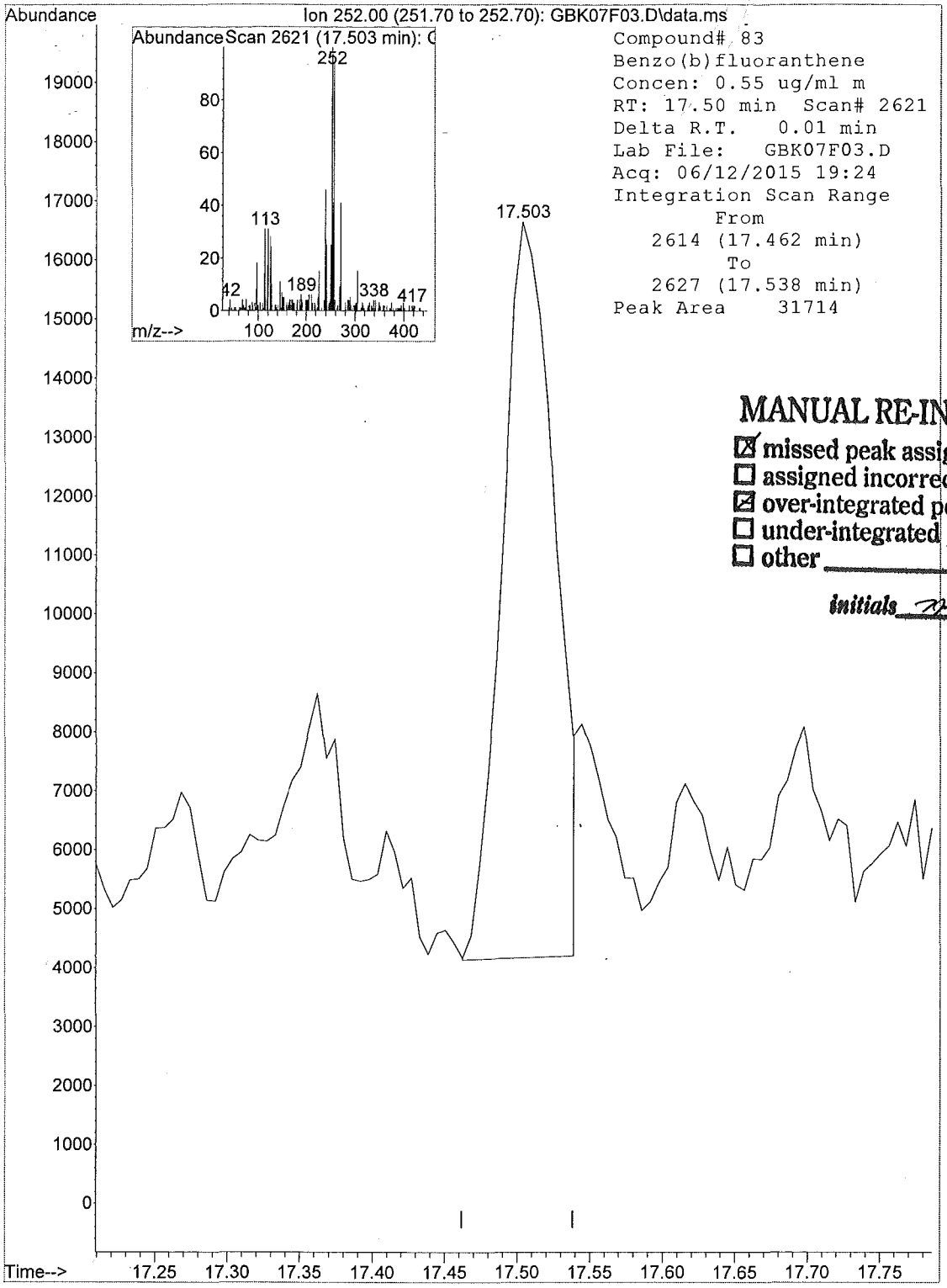
Method : R:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

	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	9.07	153	25903	0.707ug/ml	97
48)	2,4-Dinitrophenol	0.00	184		Not Detected	
49)	4-Nitrophenol	0.00	109		Not Detected	
51)	Dibenzofuran	0.00	168		Not Detected	
52)	2,4-Dinitrotoluene	0.00	165		Not Detected	
53)	2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54)	Diethylphthalate	0.00	149		Not Detected	
55)	4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56)	Fluorene	9.97	166	62238	1.559ug/ml	89
58)	4-Nitroaniline	0.00	138		Not Detected	
60)	4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62)	N-Nitrosodiphenylamine	0.00	169		Not Detected	
63)	4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64)	Hexachlorobenzene	0.00	284		Not Detected	
65)	Atrazine	0.00	200		Not Detected	
66)	Pentachlorophenol	0.00	266		Not Detected	
67)	Phenanthrene	11.69	178	294714	4.921ug/ml	95
68)	Anthracene	11.79	178	137871	2.256ug/ml	56
70)	Carbazole	0.00	167		Not Detected	
71)	Di-n-butylphthalate	0.00	149		Not Detected	
72)	Fluoranthene	13.83	202	94480	1.530ug/ml	89
74)	Pyrene	14.19	202	1092064	15.963ug/ml	96
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	15.82	228	100291	1.597ug/ml	37
79)	Chrysene	15.87	228	127092	2.230ug/ml	57
80)	Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	17.50	252	31714	0.553ug/ml m	80
84)	Benzo(k)fluoranthene	0.00	252		Not Detected	
85)	Benzo(a)pyrene	18.04	252	90109	1.630ug/ml	89
87)	Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88)	Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89)	Benzo(g,h,i)perylene	21.85	276	25841	0.471ug/ml	81

7.17.15

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

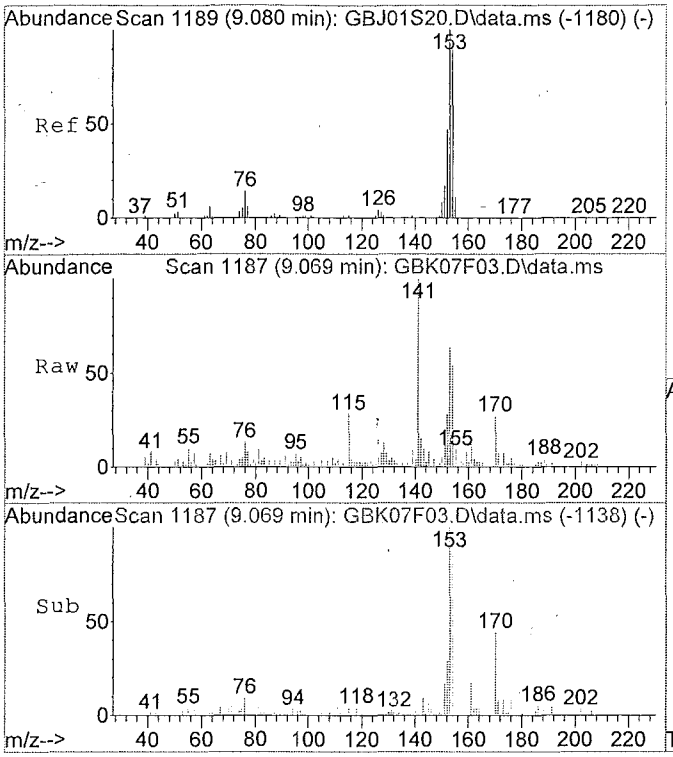
M A N U A L I N T E G R A T I O N FOR Benzo(b)fluoranthene



MANUAL RE-INTEGRATION

- ☒ missed peak assignment
- ☐ assigned incorrect name to peak
- ☒ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

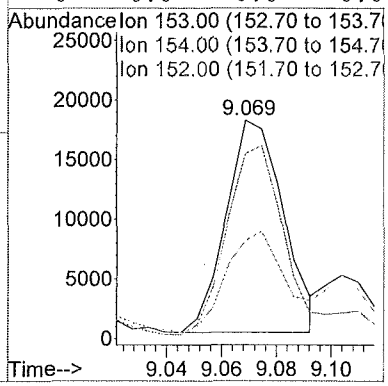
initials _____ *date* 7.17.15

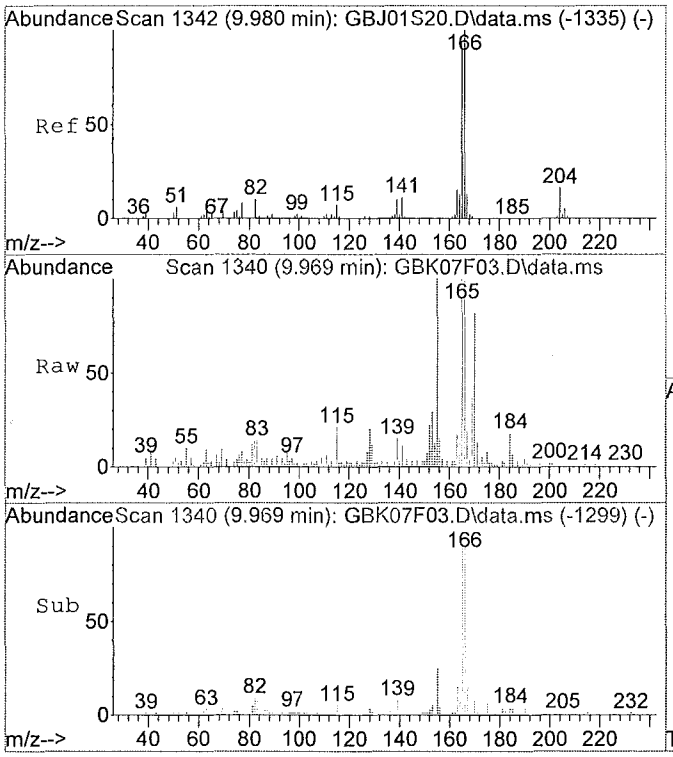


#47
Acenaphthene
Concen: 0.71 ug/ml
RT: 9.07 min Scan# 1187
Delta R.T. -0.01 min
Lab File: GBK07F03.D
Acq: 06/12/2015 19:24

Tgt Ion:153 Resp: 25903

Ion	Ratio	Lower	Upper
153	100		
154	101.7	71.2	132.2
152	53.9	33.5	62.3
0	0.0	0.0	0.0

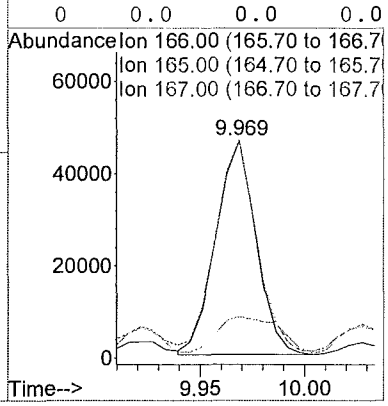


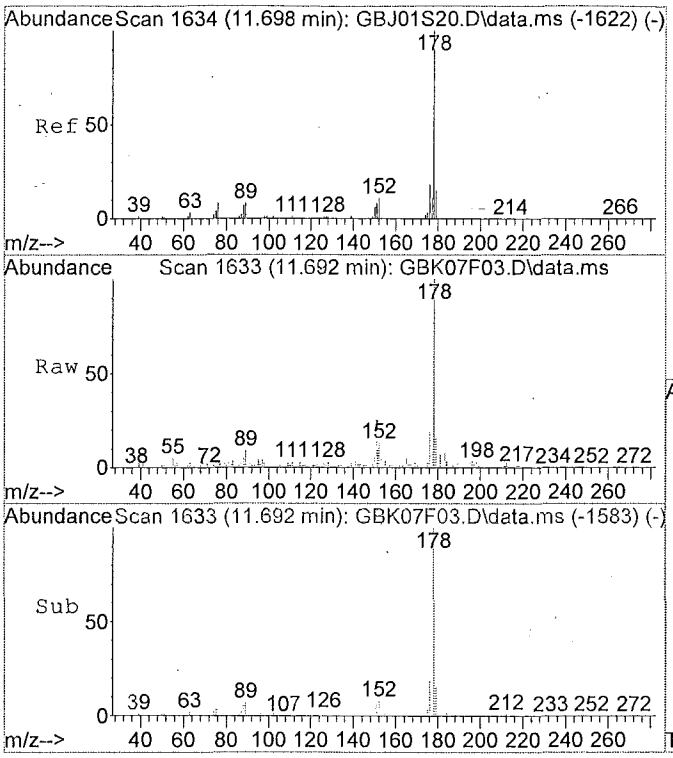


#56
Fluorene
Concen: 1.56 ug/ml
RT: 9.97 min Scan# 1340
Delta R.T. -0.01 min
Lab File: GBK07F03.D
Acq: 06/12/2015 19:24

Tgt Ion:166 Resp: 62238

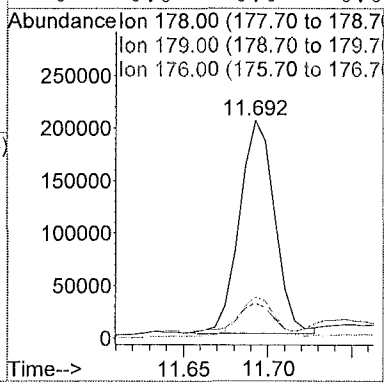
Ion	Ratio	Lower	Upper
166	100		
165	99.0	63.8	118.4
167	25.7	9.3	17.3#
0	0.0	0.0	0.0

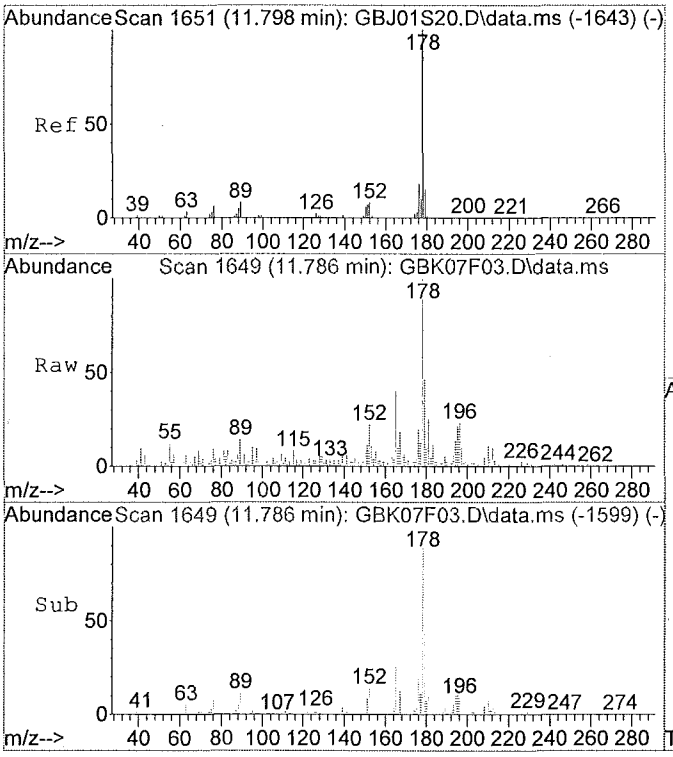




#67
Phenanthrene
Concen: 4.92 ug/ml
RT: 11.69 min Scan# 1633
Delta R.T. -0.01 min
Lab File: GBK07F03.D
Acq: 06/12/2015 19:24

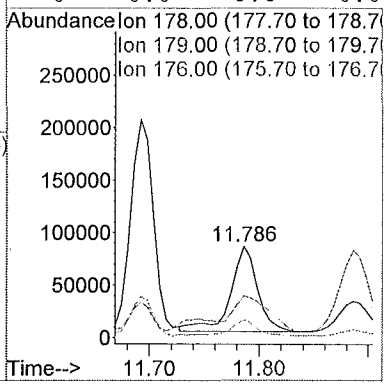
Tgt Ion:178	Resp:	294714	
Ion	Ratio	Lower	Upper
178	100		
179	12.9	10.6	19.8
176	20.8	13.2	24.4
0	0.0	0.0	0.0

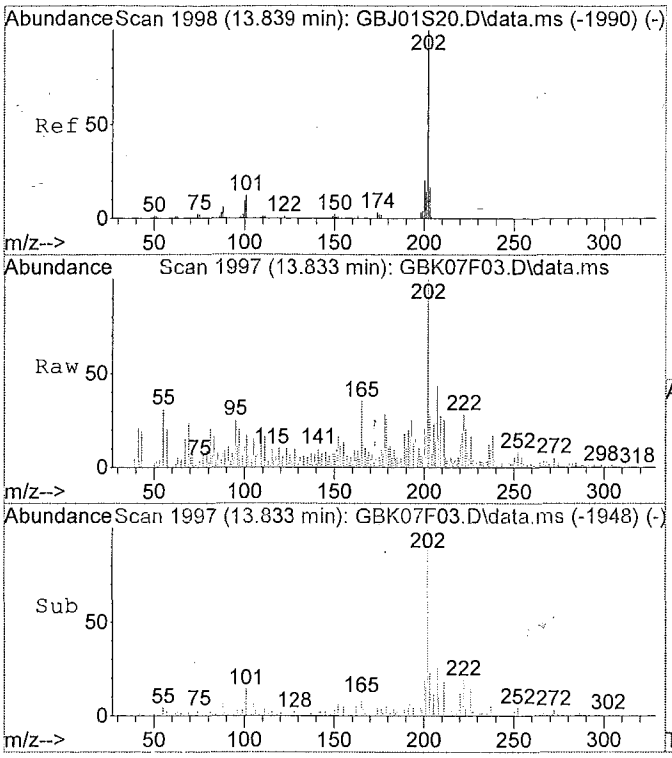




#68
Anthracene
Concen: 2.26 ug/ml
RT: 11.79 min Scan# 1649
Delta R.T. -0.01 min
Lab File: GBK07F03.D
Acq: 06/12/2015 19:24

Tgt Ion:178	Resp:	137871	
Ion	Ratio	Lower	Upper
178	100		
179	54.6	10.5	19.5#
176	17.1	12.7	23.5
0	0.0	0.0	0.0

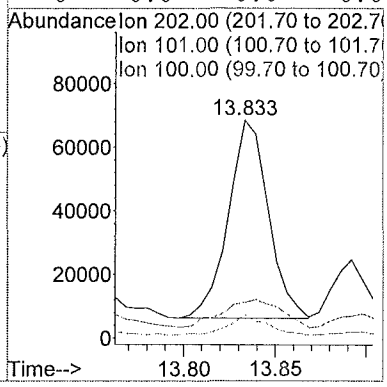


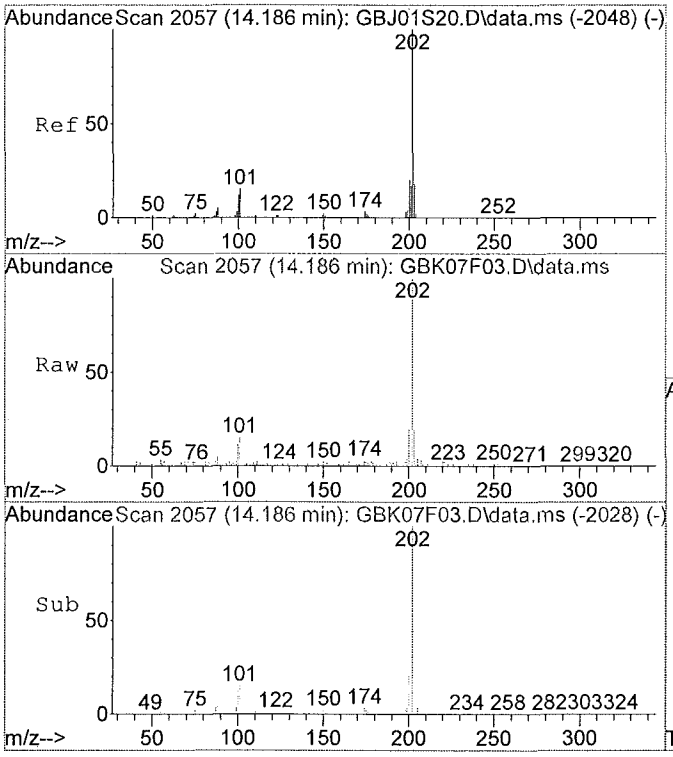


#72
Fluoranthene
Concen: 1.53 ug/ml
RT: 13.83 min Scan# 1997
Delta R.T. -0.00 min
Lab File: GBK07F03.D
Acq: 06/12/2015 19:24

Tgt Ion:202 Resp: 94480

Ion	Ratio	Lower	Upper
202	100		
101	22.3	10.5	19.5#
100	10.0	7.4	13.8
0	0.0	0.0	0.0

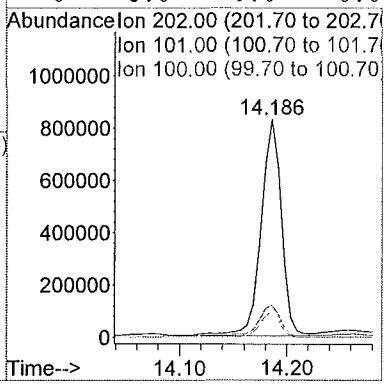


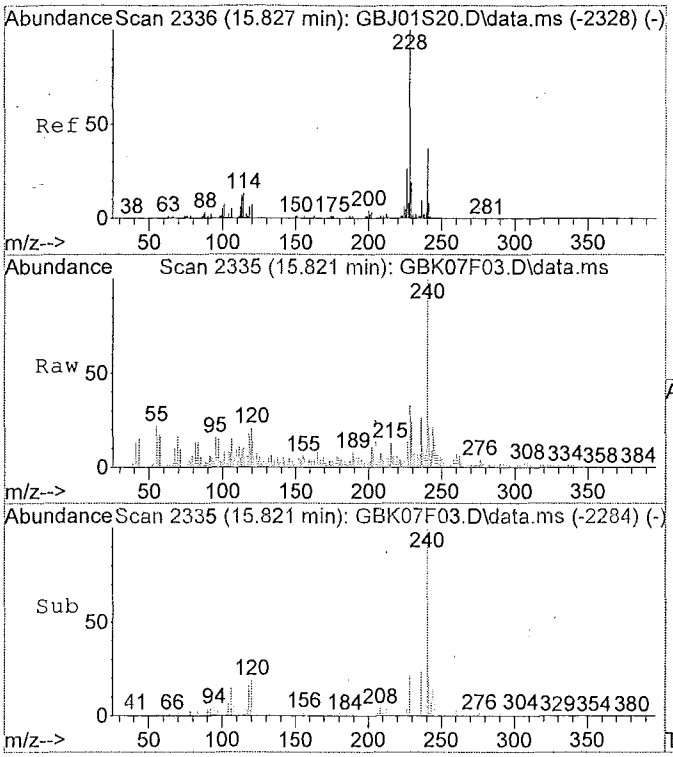


#74
Pyrene
Concen: 15.96 ug/ml
RT: 14.19 min Scan# 2057
Delta R.T. -0.00 min
Lab File: GBK07F03.D
Acq: 06/12/2015 19:24

Tgt Ion:202 Resp: 1092064

Ion	Ratio	Lower	Upper
202	100		
101	16.8	12.2	22.7
100	11.5	10.1	18.7
0	0.0	0.0	0.0

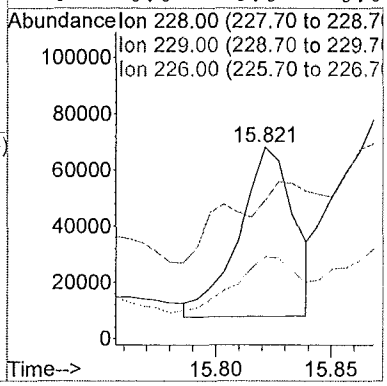


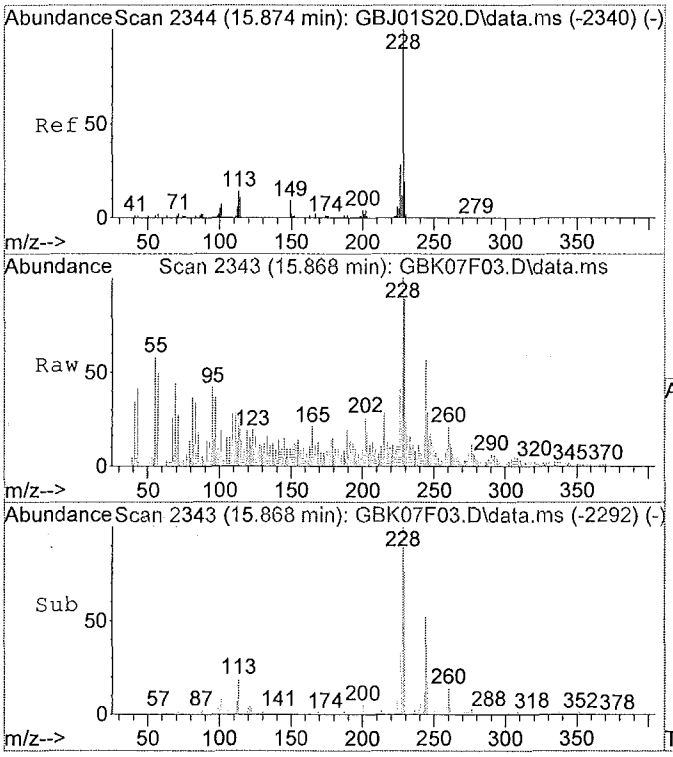


#78
Benzo(a)anthracene
Concen: 1.60 ug/ml
RT: 15.82 min Scan# 2335
Delta R.T. 0.00 min
Lab File: GBK07F03.D
Acq: 06/12/2015 19:24

Tgt Ion:228 Resp: 100291

Ion	Ratio	Lower	Upper
228	100		
229	72.6	13.7	25.5#
226	37.7	18.2	33.8#
0	0.0	0.0	0.0

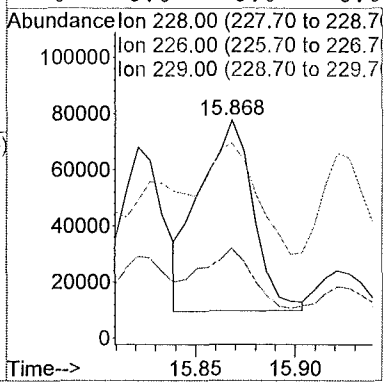


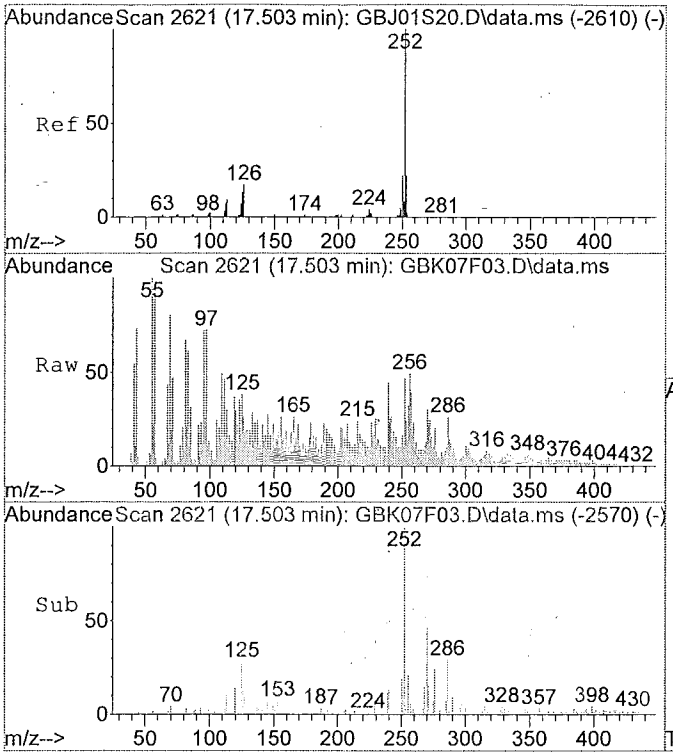


#79
Chrysene
Concen: 2.23 ug/ml
RT: 15.87 min Scan# 2343
Delta R.T. 0.00 min
Lab File: GBK07F03.D
Acq: 06/12/2015 19:24

Tgt Ion:228 Resp: 127092

Ion	Ratio	Lower	Upper
228	100		
226	27.4	20.1	37.3
229	66.0	13.7	25.5#
0	0.0	0.0	0.0

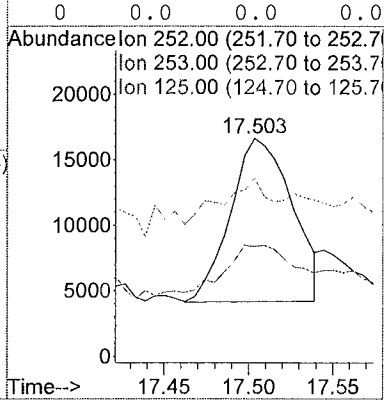


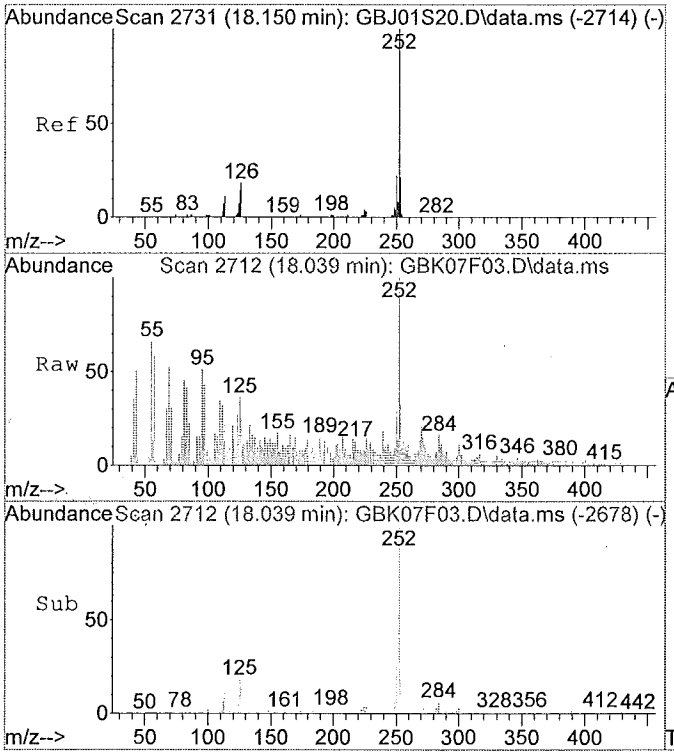


#83
Benzo(b)fluoranthene
Concen: 0.55 ug/ml m
RT: 17.50 min Scan# 2621
Delta R.T. 0.01 min
Lab File: GBK07F03.D
Acq: 06/12/2015 19:24

Tgt Ion:252 Resp: 31714

Ion	Ratio	Lower	Upper
252	100		
253	43.2	15.1	28.1#
125	20.8	10.6	19.8#
0	0.0	0.0	0.0

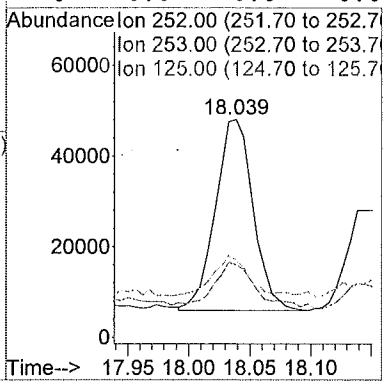


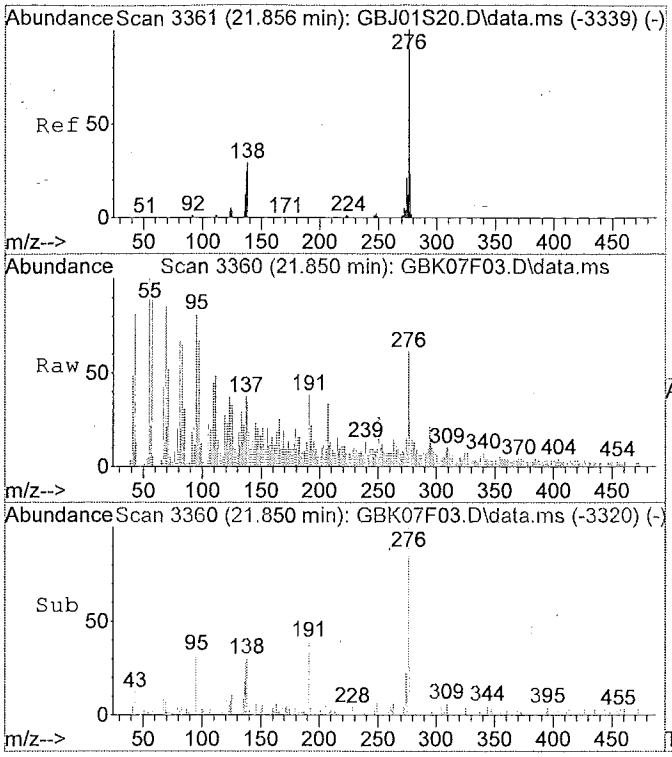


#85
Benzo(a)pyrene
Concen: 1.63 ug/ml
RT: 18.04 min Scan# 2712
Delta R.T. -0.10 min
Lab File: GBK07F03.D
Acq: 06/12/2015 19:24

Tgt Ion:252 Resp: 90109

Ion	Ratio	Lower	Upper
252	100		
253	27.0	15.2	28.2
125	21.7	11.8	21.8
0	0.0	0.0	0.0

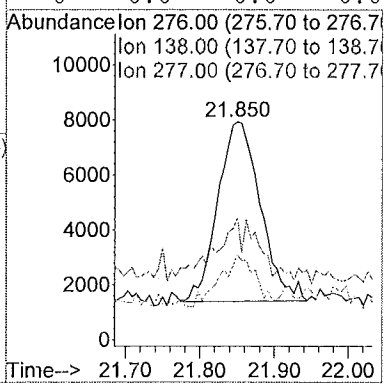




#89
Benzo(g,h,i)perylene
Concen: 0.47 ug/ml
RT: 21.85 min Scan# 3360
Delta R.T. 0.01 min
Lab File: GBK07F03.D
Acq: 06/12/2015 19:24

Tgt Ion:276 Resp: 25841

Ion	Ratio	Lower	Upper
276	100		
138	18.2	24.1	44.7#
277	26.8	16.7	30.9
0	0.0	0.0	0.0



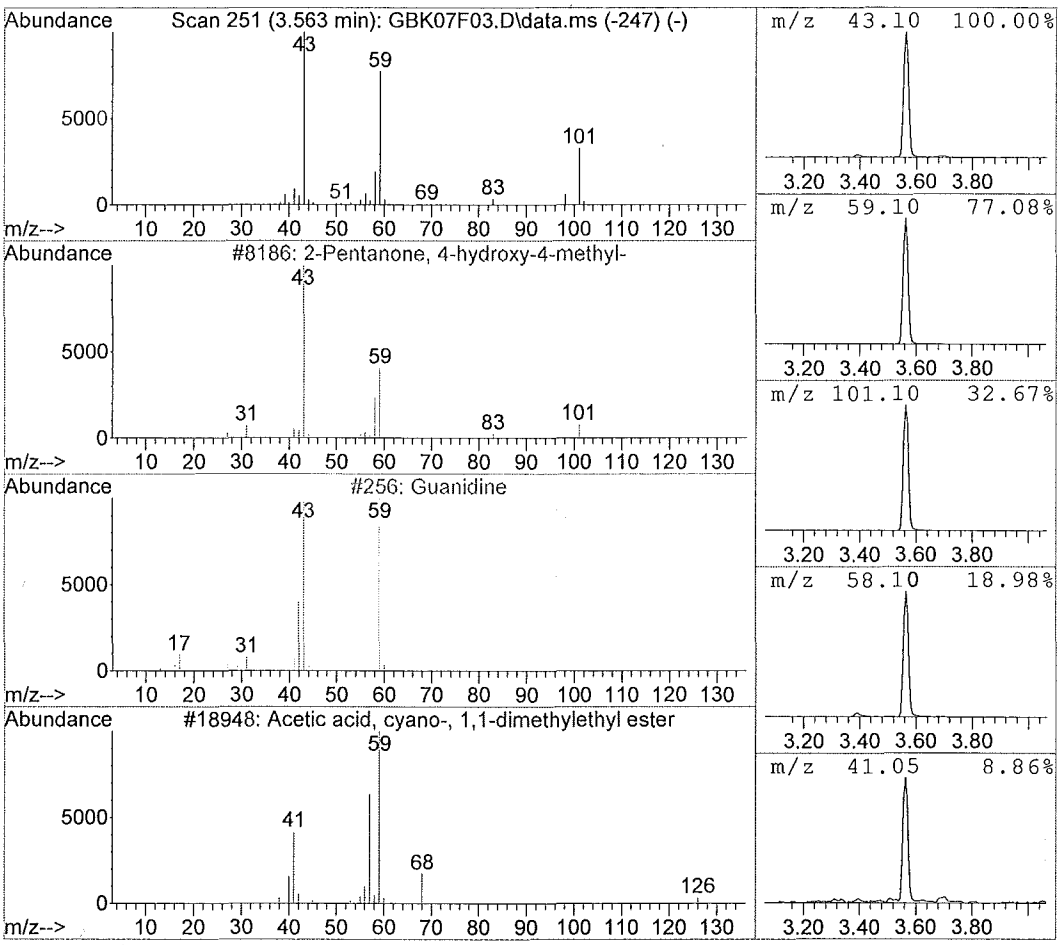
Library Search Compound Report

Data File : R:\G\2015\JUN15\12JUN15\12JUN15\GBK07F03.D Vial: 6
Acq On : 06/12/2015 19:24 Operator: DJC
Sample : 1515542003 F9M23 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p 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
3.56	8.20 ug/ml	684607	1,4-Dichlorobenzene-d4	1669884

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	56.00
2	Guanidine	256	000113-00-8	50.00
3	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	28.00
4	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	27.00
5	Morpholine, 4-methyl-	4084	000109-02-4	9.00



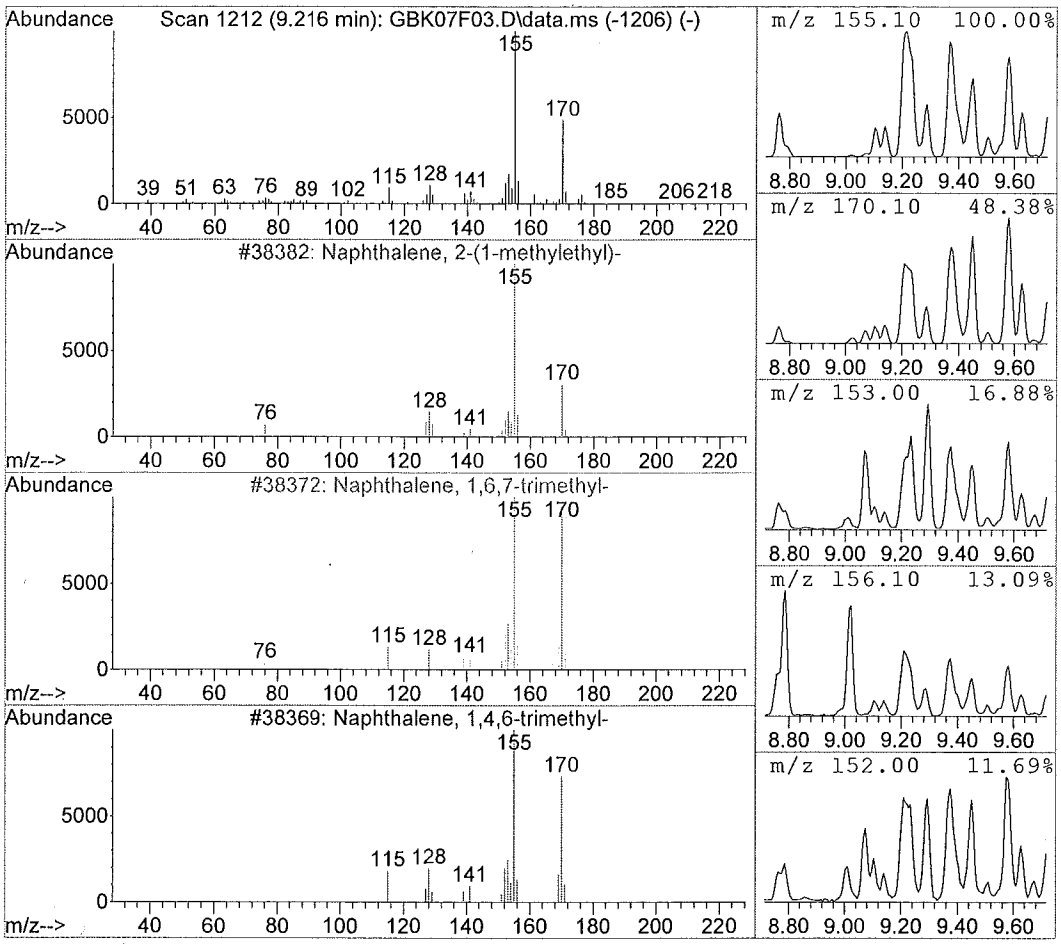
Library Search Compound Report

Data File : R:\G\2015\JUN15\12JUN15\12JUN15\GBK07F03.D Vial: 6
Acq On : 06/12/2015 19:24 Operator: DJC
Sample : 1515542003 F9M23 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p 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
9.22	6.68 ug/ml	919558	Acenaphthene-d10	2754041

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, 2-(1-methylethyl)-	38382	002027-17-0	94.00
2	Naphthalene, 1,6,7-trimethyl-	38372	002245-38-7	86.00
3	Naphthalene, 1,4,6-trimethyl-	38369	002131-42-2	86.00
4	2-Naphthyl methyl ketone	38306	000093-08-3	72.00
5	Ethanone, 1-(1-Naphthalenyl)-	38310	000941-98-0	72.00

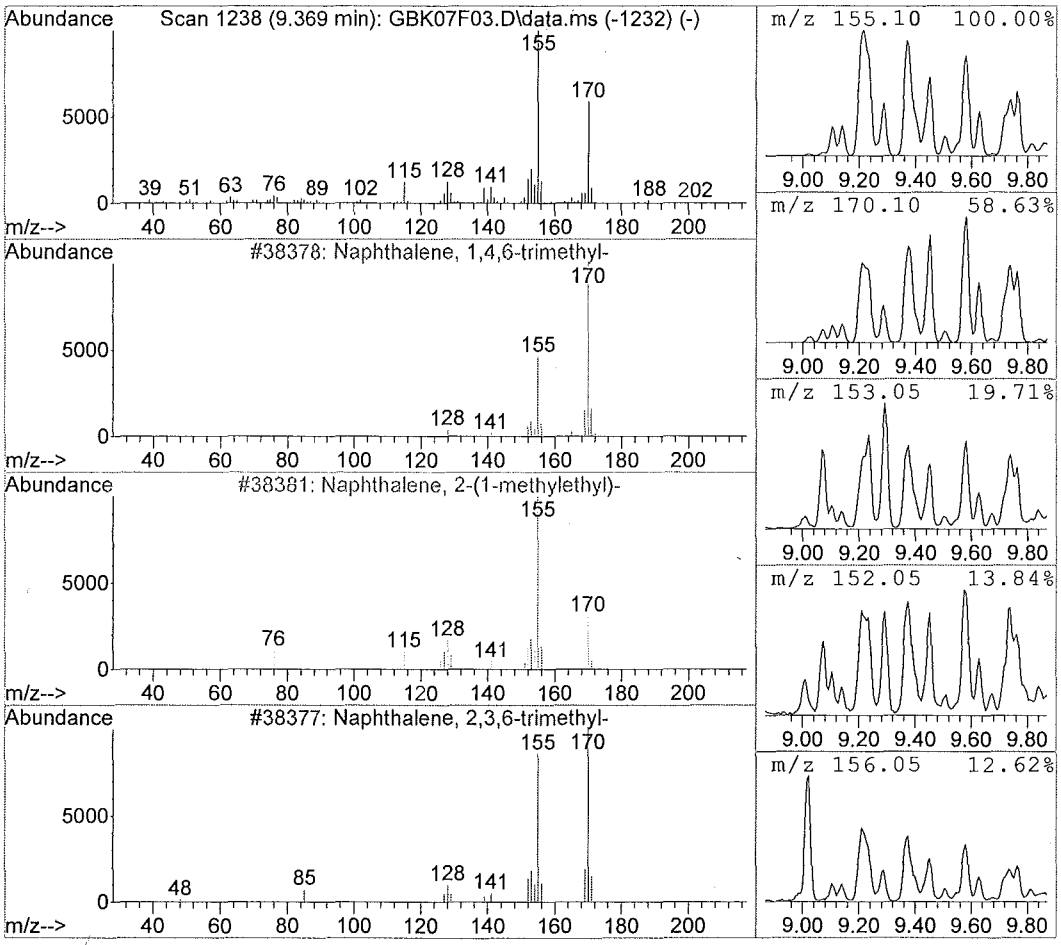


Data File : R:\G\2015\JUN15\12JUN15\12JUN15\GBK07F03.D Vial: 6
Acq On : 06/12/2015 19:24 Operator: DJC
Sample : 1515542003 F9M23 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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
9.37	5.28 ug/ml	726873	Acenaphthene-d10	2754041

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, 1,4,6-trimethyl-	38378	002131-42-2	94.00
2	Naphthalene, 2-(1-methylethyl)-	38381	002027-17-0	94.00
3	Naphthalene, 2,3,6-trimethyl-	38377	000829-26-5	94.00
4	Naphthalene, 1,6,7-trimethyl-	38373	002245-38-7	94.00
5	Naphthalene, 1-(1-methylethyl)-	38379	006158-45-8	90.00

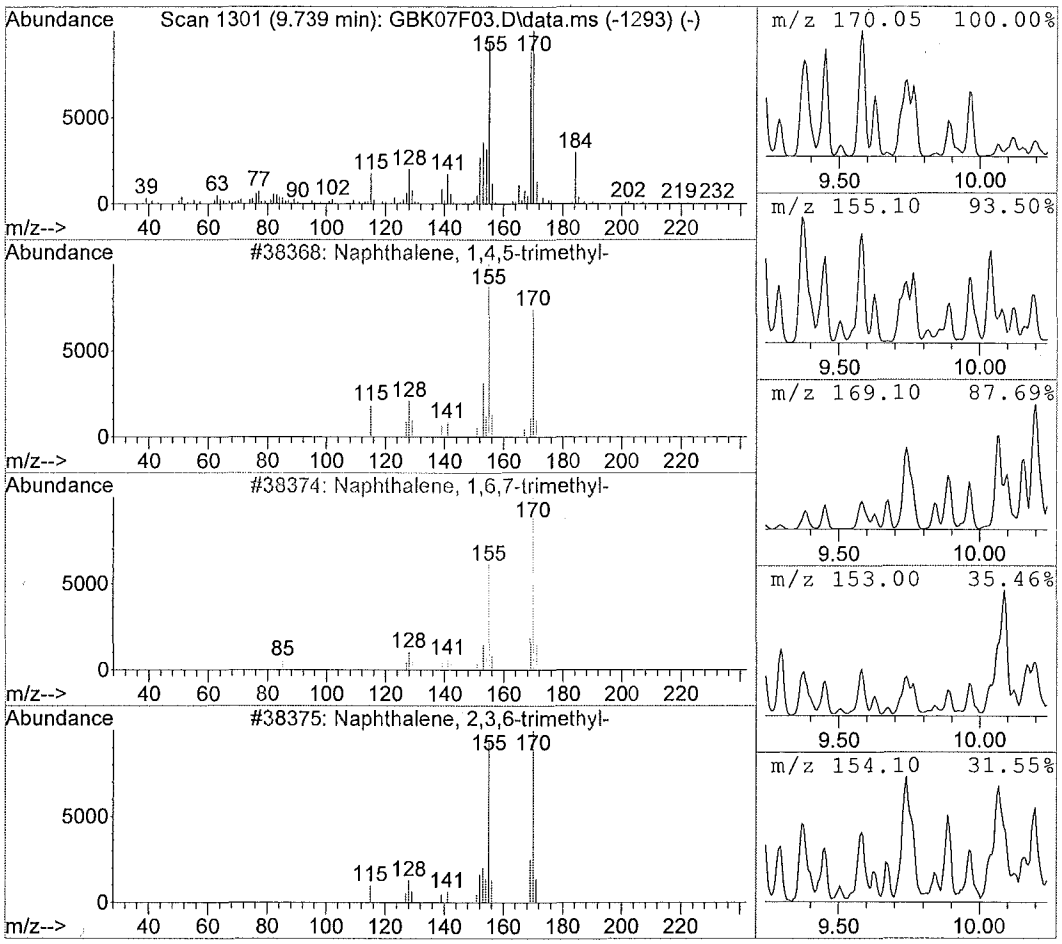


Data File : R:\G\2015\JUN15\12JUN15\12JUN15\GBK07F03.D Vial: 6
Acq On : 06/12/2015 19:24 Operator: DJC
Sample : 1515542003 F9M23 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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
9.74	4.43 ug/ml	610254	Acenaphthene-d10	2754041

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, 1,4,5-trimethyl-	38368	002131-41-1	92.00
2	Naphthalene, 1,6,7-trimethyl-	38374	002245-38-7	91.00
3	Naphthalene, 2,3,6-trimethyl-	38375	000829-26-5	70.00
4	Naphthalene, 1,4,6-trimethyl-	38369	002131-42-2	70.00
5	4,6,8-Trimethylazulene	38363	000941-81-1	58.00



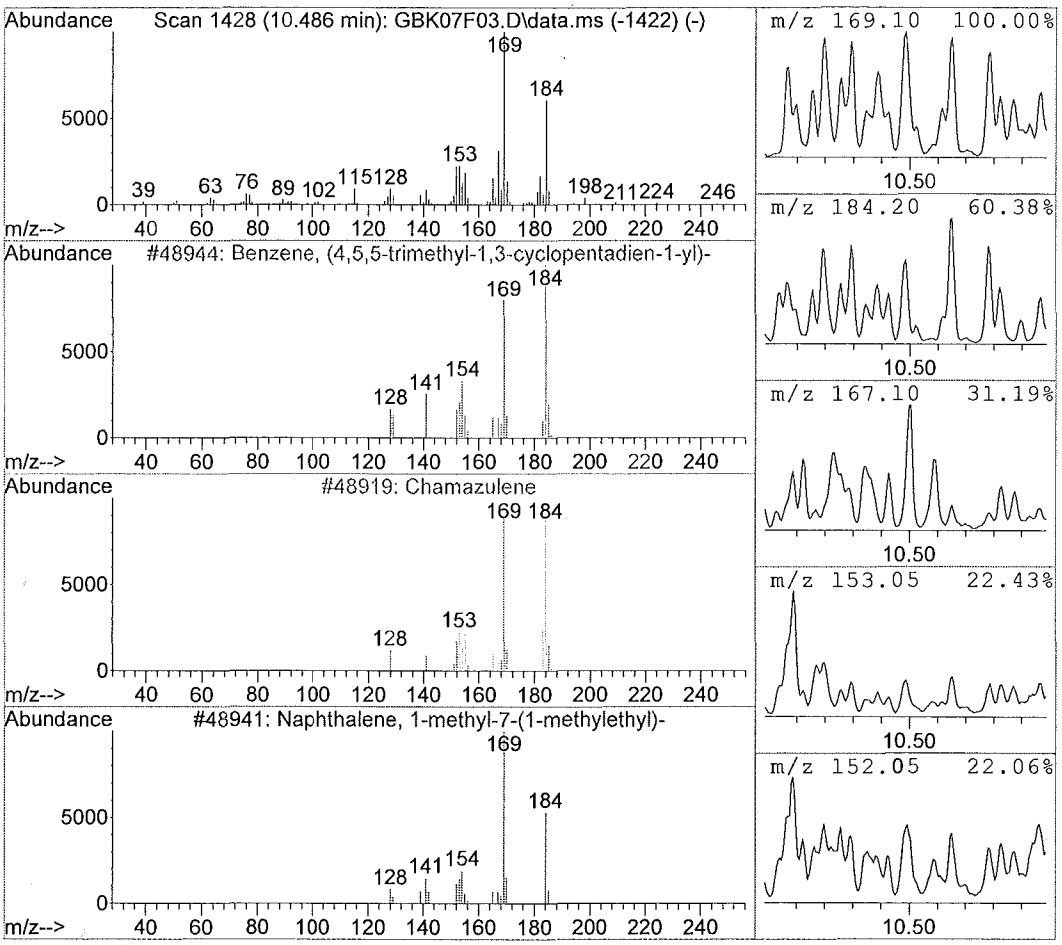
Library Search Compound Report

Data File : R:\G\2015\JUN15\12JUN15\12JUN15\GBK07F03.D Via1: 6
Acq On : 06/12/2015 19:24 Operator: DJC
Sample : 1515542003 F9M23 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p 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
10.49	4.88 ug/ml	661883	Phenanthrene-d10	2712831

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Benzene, (4,5,5-trimethyl-1,3-cyclo	48944	033930-85-7	91.00
2	Chamazulene	48919	000529-05-5	90.00
3	Naphthalene, 1-methyl-7-(1-methylet	48941	000490-65-3	58.00
4	Cyclopentene, 1,2-dimethyl-4-methyl	48943	1000152-22-4	53.00
5	Phenol, 3,4,5-trimethoxy-	49268	000642-71-7	49.00



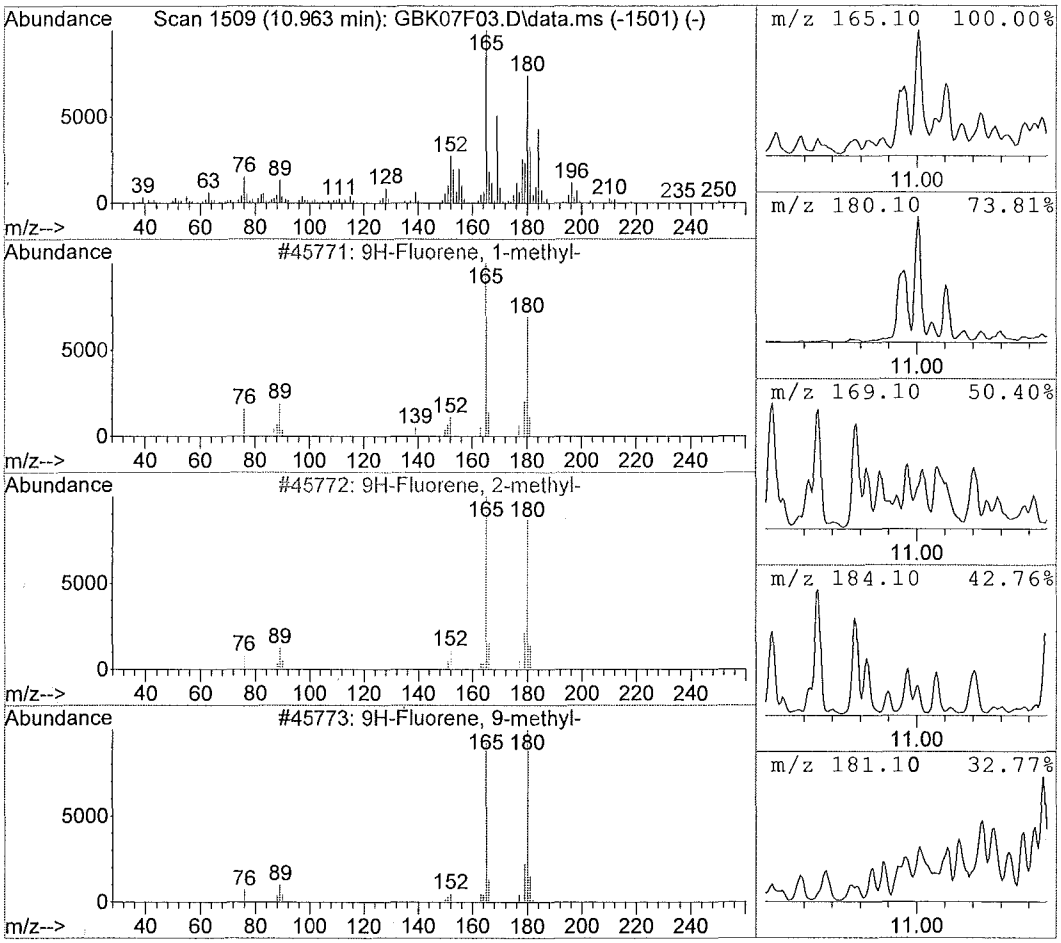
Library Search Compound Report

Data File : R:\G\2015\JUN15\12JUN15\12JUN15\GBK07F03.D Vial: 6
Acq On : 06/12/2015 19:24 Operator: DJC
Sample : 1515542003 F9M23 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p 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
10.96	5.26 ug/ml	713937	Phenanthrene-d10	2712831

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9H-Fluorene, 1-methyl-	45771	001730-37-6	70.00
2	9H-Fluorene, 2-methyl-	45772	001430-97-3	55.00
3	9H-Fluorene, 9-methyl-	45773	002523-37-7	49.00
4	9H-Fluorene, 4-methyl-	45769	001556-99-6	46.00
5	9H-Fluorene, 3-methyl-	45770	002523-39-9	45.00



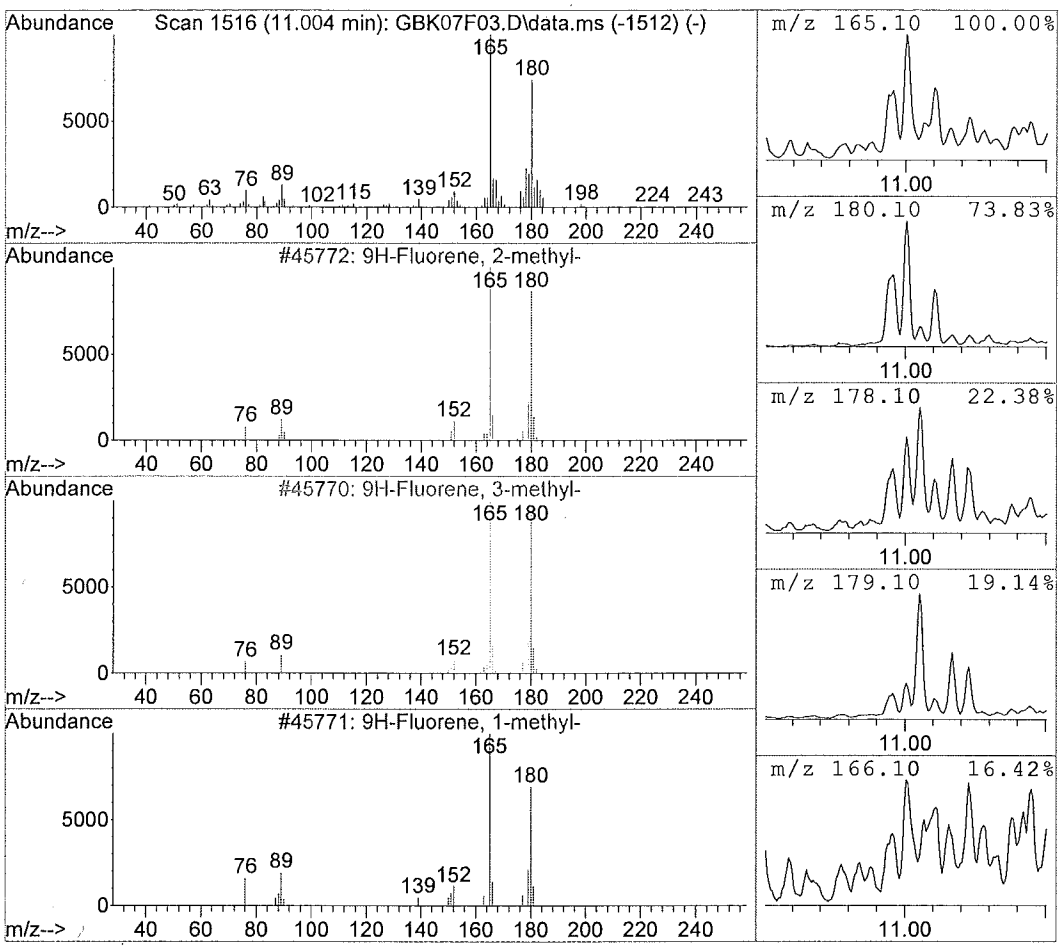
Library Search Compound Report

Data File : R:\G\2015\JUN15\12JUN15\12JUN15\GBK07F03.D Vial: 6
Acq On : 06/12/2015 19:24 Operator: DJC
Sample : 1515542003 F9M23 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p 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
11.00	4.05 ug/ml	549694	Phenanthrene-d10	2712831

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9H-Fluorene, 2-methyl-	45772	001430-97-3	96.00
2	9H-Fluorene, 3-methyl-	45770	002523-39-9	95.00
3	9H-Fluorene, 1-methyl-	45771	001730-37-6	94.00
4	9H-Fluorene, 9-methyl-	45773	002523-37-7	93.00
5	Ethylene, 1,1-diphenyl-	45784	000530-48-3	49.00



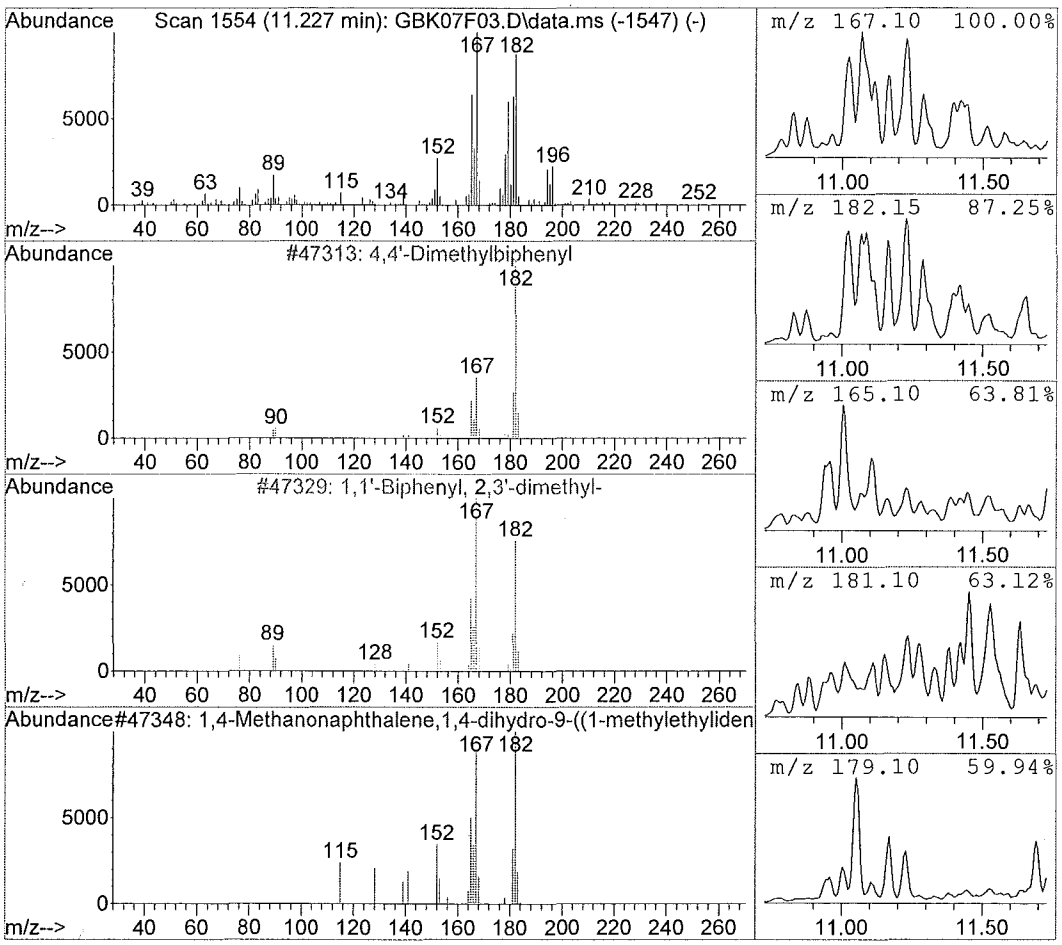
Library Search Compound Report

Data File : R:\G\2015\JUN15\12JUN15\12JUN15\GBK07F03.D Vial: 6
Acq On : 06/12/2015 19:24 Operator: DJC
Sample : 1515542003 F9M23 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p 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
11.23	3.97 ug/ml	538579	Phenanthrene-d10	2712831

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4,4'-Dimethylbiphenyl	47313	000613-33-2	70.00
2	1,1'-Biphenyl, 2,3'-dimethyl-	47329	000611-43-8	58.00
3	1,4-Methanonaphthalene,1,4-dihydro-	47348	007350-72-3	58.00
4	1,1'-Biphenyl, 2-ethyl-	47322	001812-51-7	53.00
5	Benzene, 1-methyl-2-(phenylmethyl)-	47342	000713-36-0	49.00



00112

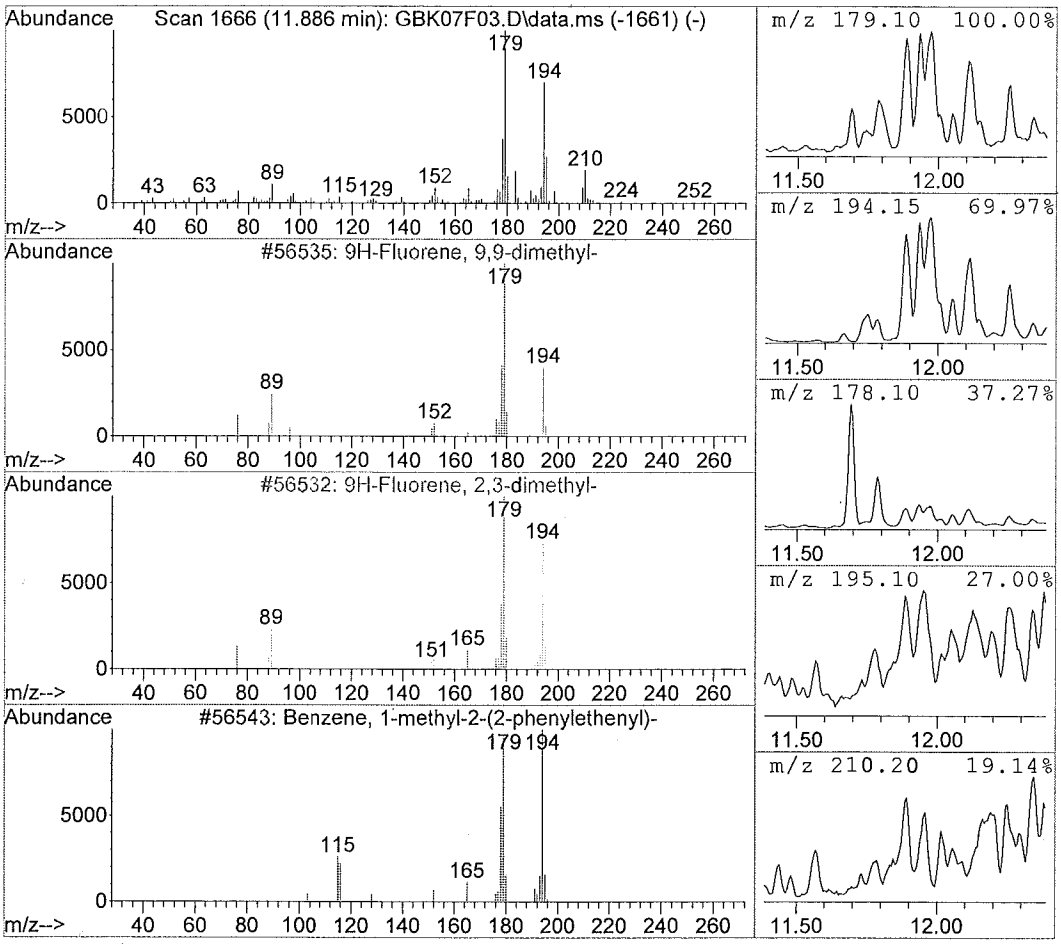
Library Search Compound Report

Data File : R:\G\2015\JUN15\12JUN15\12JUN15\GBK07F03.D Vial: 6
Acq On : 06/12/2015 19:24 Operator: DJC
Sample : 1515542003 F9M23 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p 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
11.89	5.18 ug/ml	702174	Phenanthrene-d10	2712831

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9H-Fluorene, 9,9-dimethyl-	56535	004569-45-3	70.00
2	9H-Fluorene, 2,3-dimethyl-	56532	004612-63-9	68.00
3	Benzene, 1-methyl-2-(2-phenyletheny	56543	074685-42-0	55.00
4	.alpha.-Methylstilbene	56525	000779-51-1	49.00
5	Phenanthrene, 9,10-dihydro-1-methyl	56540	095676-48-5	45.00



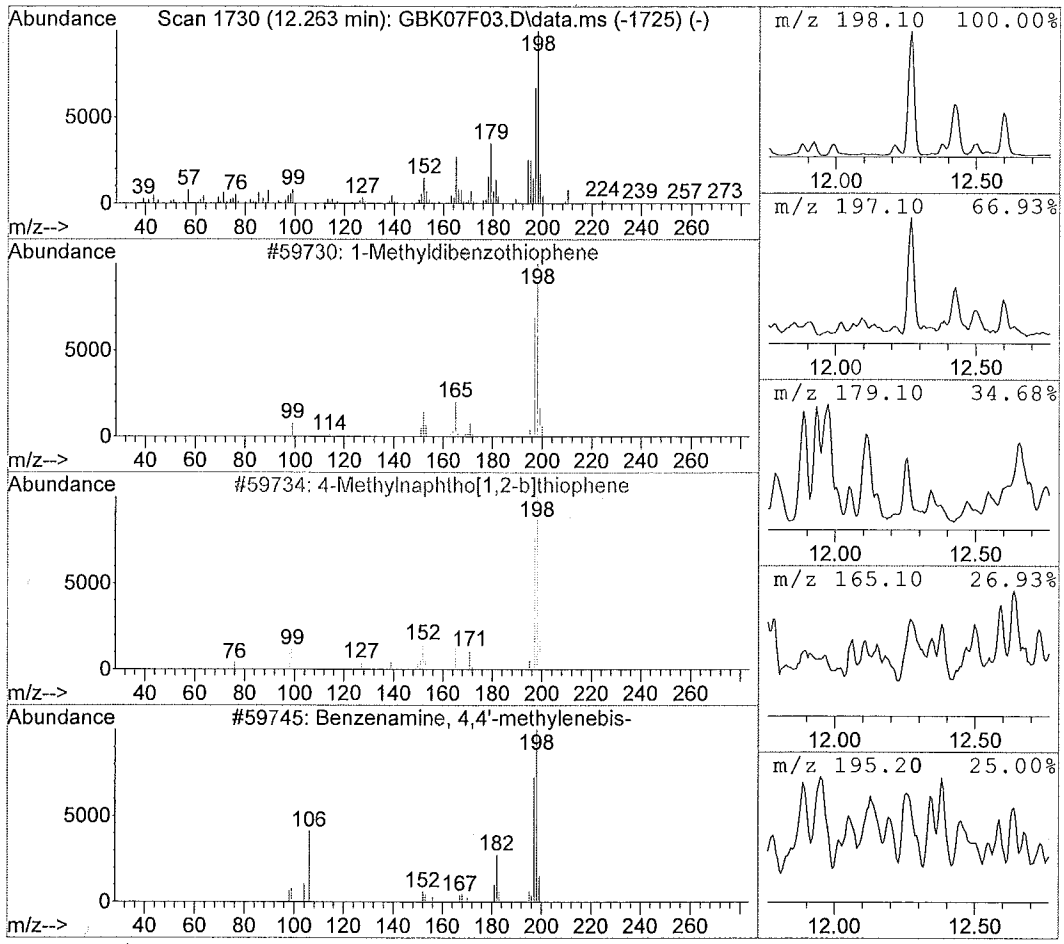
Library Search Compound Report

Data File : R:\G\2015\JUN15\12JUN15\12JUN15\GBK07F03.D Vial: 6
Acq On : 06/12/2015 19:24 Operator: DJC
Sample : 1515542003 F9M23 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p 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
12.26	5.48 ug/ml	743570	Phenanthrene-d10	2712831

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Methyldibenzothiophene	59730	031317-07-4	92.00
2	4-Methylnaphtho[1,2-b]thiophene	59734	067388-11-8	60.00
3	Benzenamine, 4,4'-methylenebis-	59745	000101-77-9	53.00
4	Thioxanthene	59726	000261-31-4	50.00
5	Dibenzothiophene, 4-methyl-	59733	007372-88-5	49.00



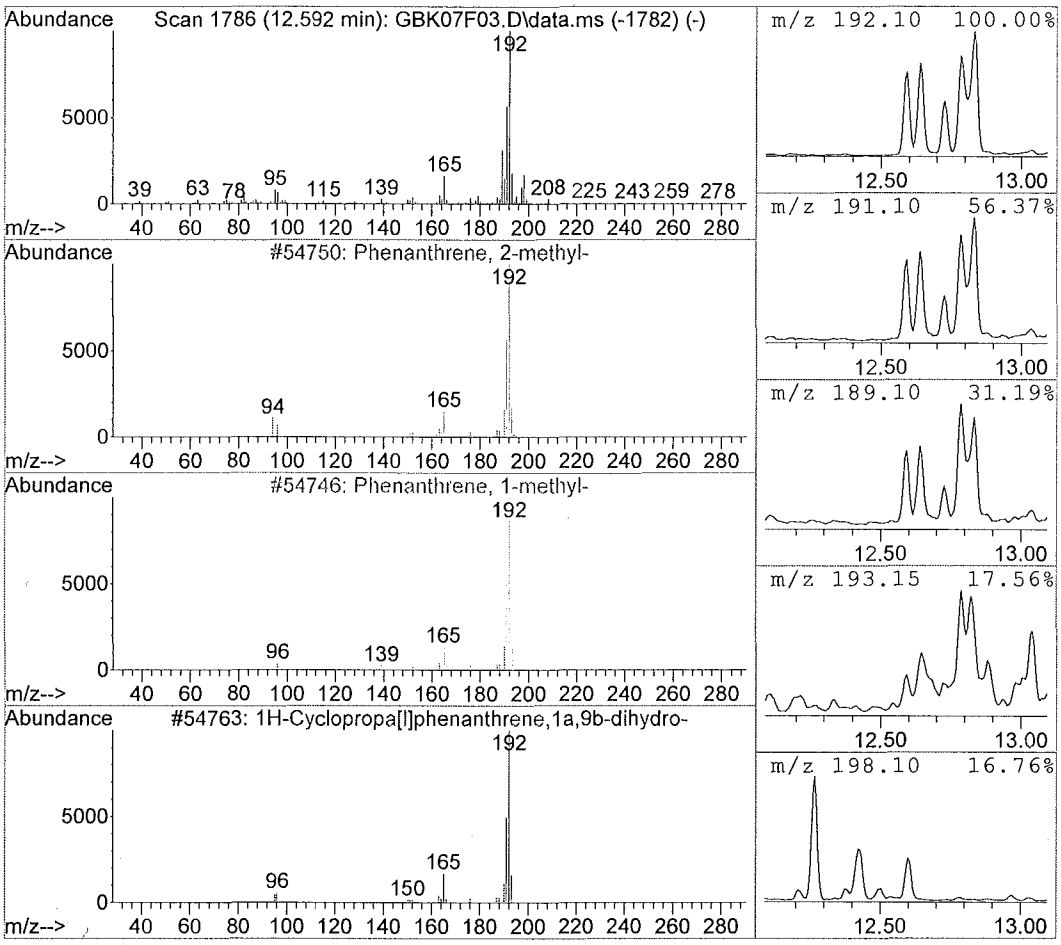
Library Search Compound Report

Data File : R:\G\2015\JUN15\12JUN15\12JUN15\GBK07F03.D Vial: 6
Acq On : 06/12/2015 19:24 Operator: DJC
Sample : 1515542003 F9M23 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p 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
12.59	4.95 ug/ml	671720	Phenanthrene-d10	2712831

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phenanthrene, 2-methyl-	54750	002531-84-2	97.00
2	Phenanthrene, 1-methyl-	54746	000832-69-9	97.00
3	1H-Cyclopropa[l]phenanthrene,1a,9b-	54763	000949-41-7	96.00
4	Anthracene, 2-methyl-	54735	000613-12-7	96.00
5	Anthracene, 1-methyl-	54741	000610-48-0	93.00



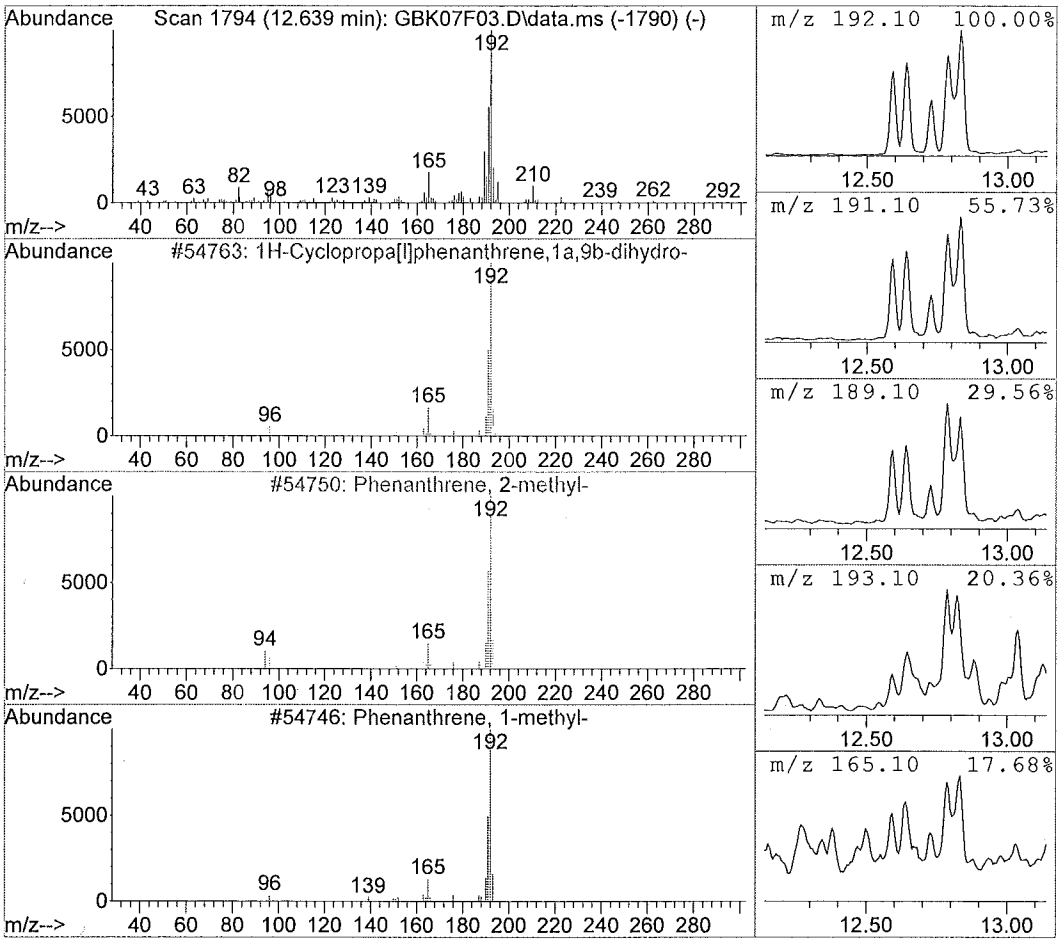
Library Search Compound Report

Data File : R:\G\2015\JUN15\12JUN15\12JUN15\GBK07F03.D Vial: 6
Acq On : 06/12/2015 19:24 Operator: DJC
Sample : 1515542003 F9M23 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p 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
12.64	10.35 ug/ml	1404477	Phenanthrene-d10	2712831

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene,1a,9b-	54763	000949-41-7	98.00
2	Phenanthrene, 2-methyl-	54750	002531-84-2	97.00
3	Phenanthrene, 1-methyl-	54746	000832-69-9	97.00
4	Anthracene, 2-methyl-	54735	000613-12-7	96.00
5	Phenanthrene, 4-methyl-	54745	000832-64-4	95.00



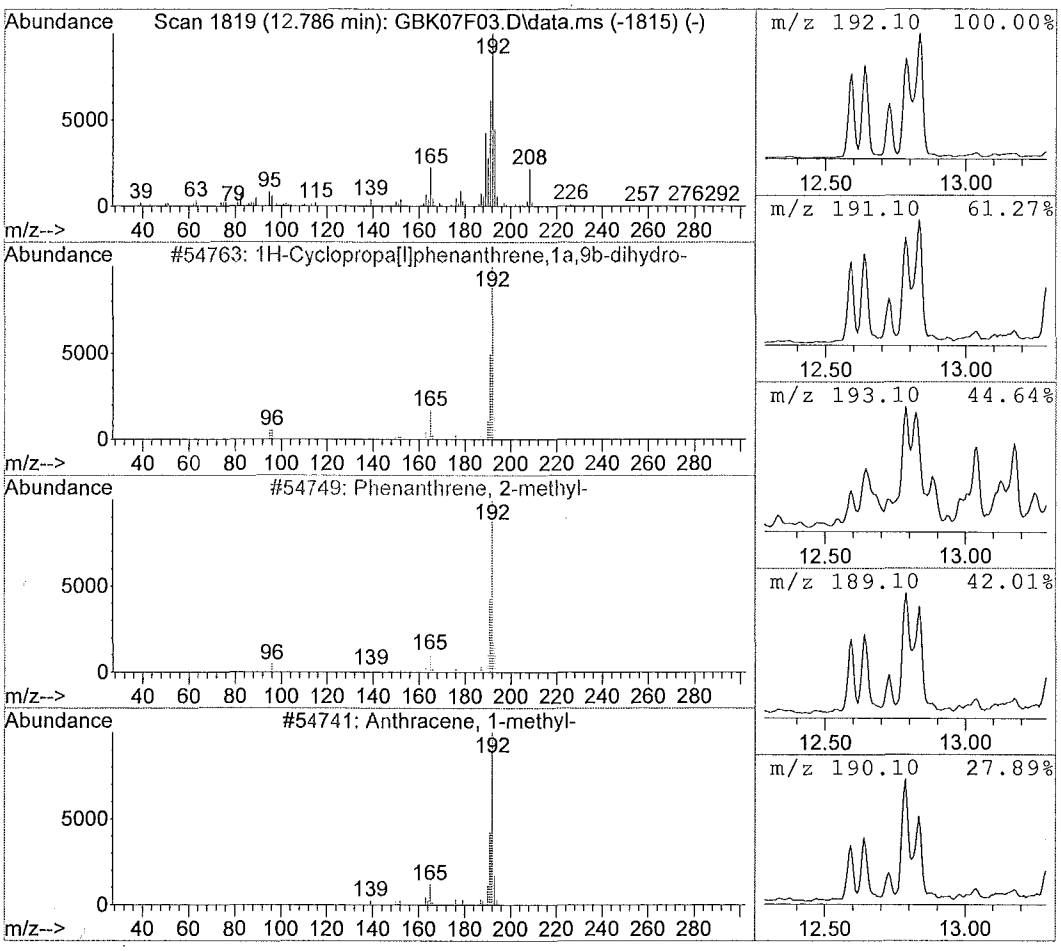
Library Search Compound Report

Data File : R:\G\2015\JUN15\12JUN15\12JUN15\GBK07F03.D Vial: 6
Acq On : 06/12/2015 19:24 Operator: DJC
Sample : 1515542003 F9M23 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p 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
12.79	7.61 ug/ml	1032361	Phenanthrene-d10	2712831

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene,1a,9b-	54763	000949-41-7	90.00
2	Phenanthrene, 2-methyl-	54749	002531-84-2	60.00
3	Anthracene, 1-methyl-	54741	000610-48-0	55.00
4	Phenanthrene, 4-methyl-	54751	000832-64-4	55.00
5	Phenanthrene, 1-methyl-	54752	000832-69-9	55.00

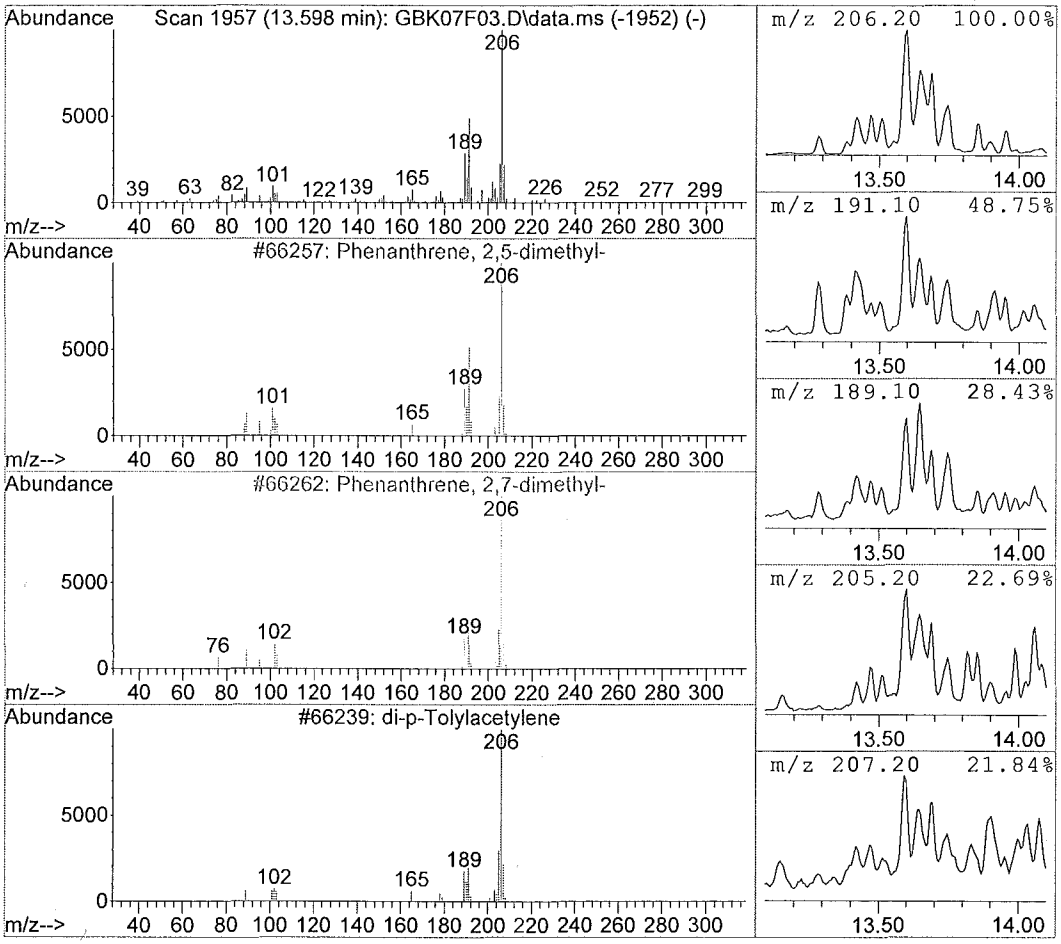


Data File : R:\G\2015\JUN15\12JUN15\12JUN15\GBK07F03.D Vial: 6
Acq On : 06/12/2015 19:24 Operator: DJC
Sample : 1515542003 F9M23 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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
13.60	10.37 ug/ml	1406460	Phenanthrene-d10	2712831

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	66257	003674-66-6	97.00
2	Phenanthrene, 2,7-dimethyl-	66262	001576-69-8	94.00
3	di-p-Tolylacetylene	66239	002789-88-0	93.00
4	Anthracene, 1,4-dimethyl-	66250	000781-92-0	93.00
5	Phenanthrene, 2,3-dimethyl-	66256	003674-65-5	93.00



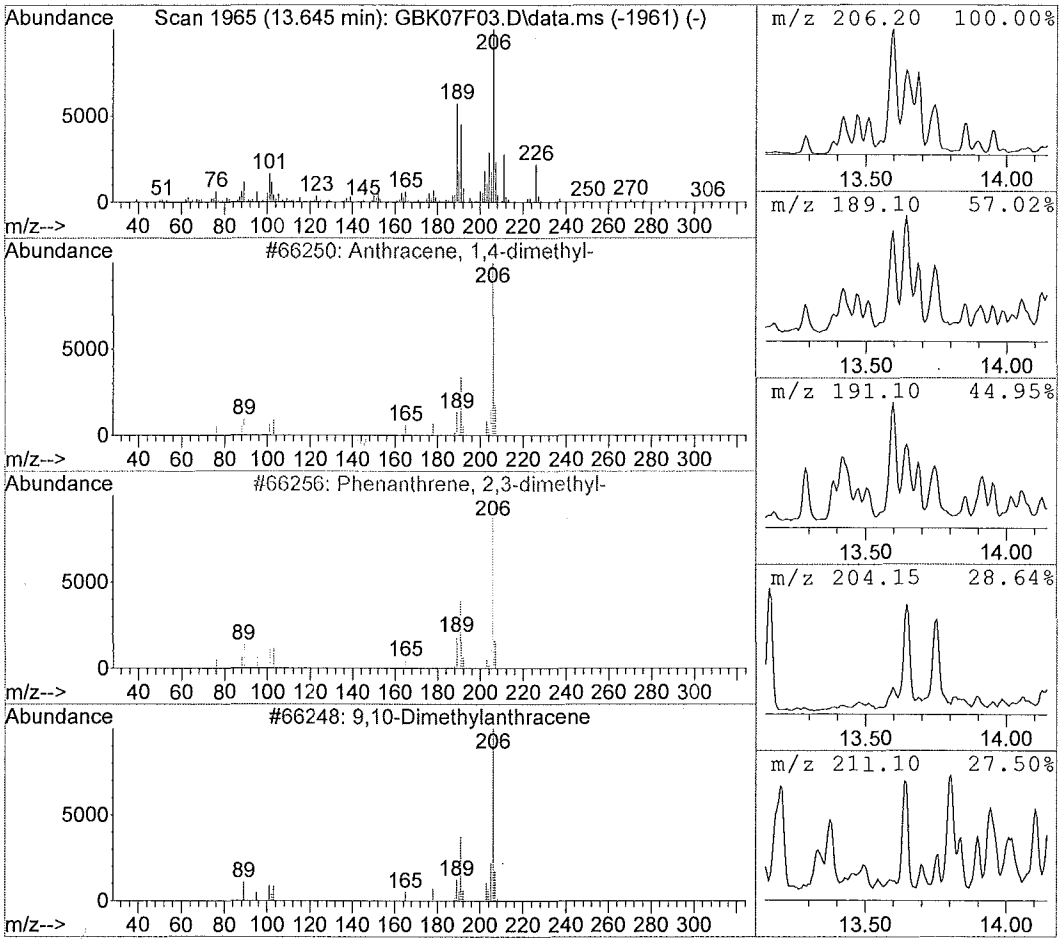
Library Search Compound Report

Data File : R:\G\2015\JUN15\12JUN15\12JUN15\GBK07F03.D Vial: 6
Acq On : 06/12/2015 19:24 Operator: DJC
Sample : 1515542003 F9M23 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p 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
13.64	10.15 ug/ml	1376632	Phenanthrene-d10	2712831

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Anthracene, 1,4-dimethyl-	66250	000781-92-0	83.00
2	Phenanthrene, 2,3-dimethyl-	66256	003674-65-5	60.00
3	9,10-Dimethylanthracene	66248	000781-43-1	60.00
4	Phenanthrene, 3,6-dimethyl-	66266	001576-67-6	58.00
5	di-p-Tolylacetylene	66238	002789-88-0	53.00



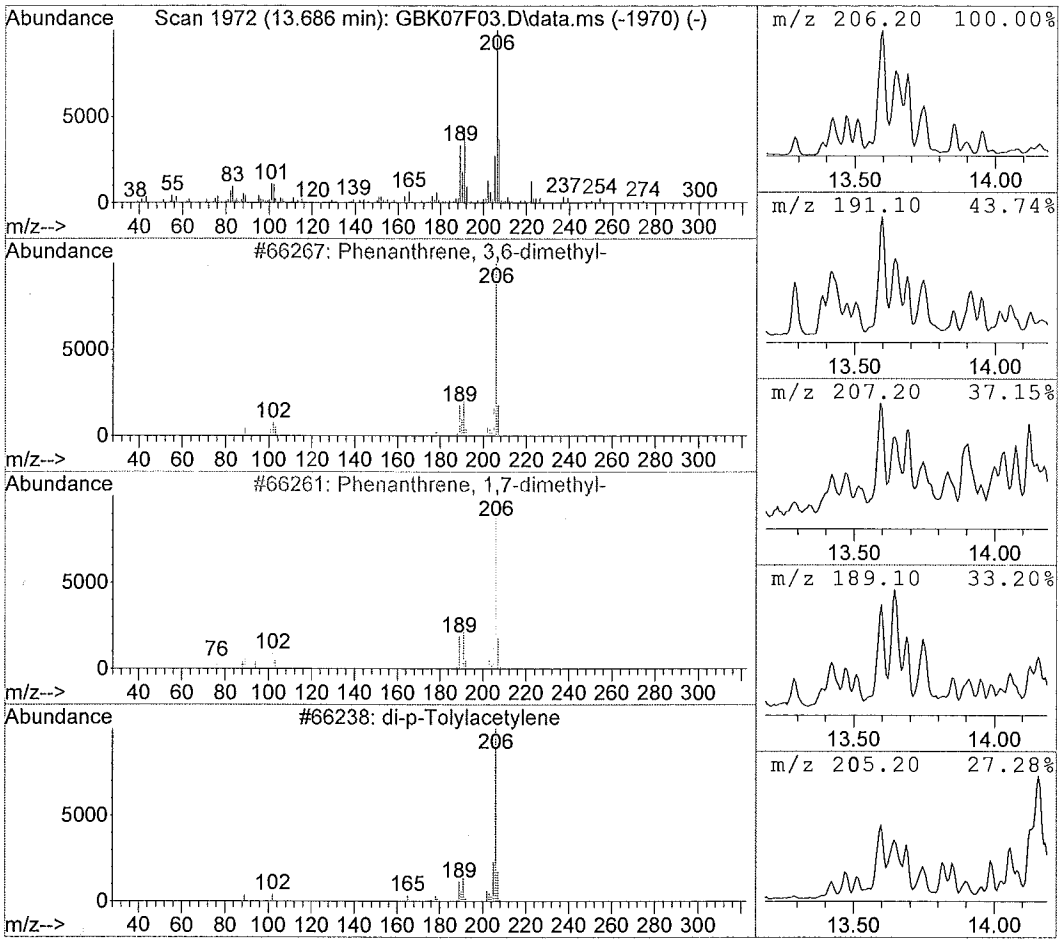
Library Search Compound Report

Data File : R:\G\2015\JUN15\12JUN15\12JUN15\GBK07F03.D Vial: 6
Acq On : 06/12/2015 19:24 Operator: DJC
Sample : 1515542003 F9M23 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p 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
13.69	3.87 ug/ml	524836	Phenanthrene-d10	2712831

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	66267	001576-67-6	94.00
2	Phenanthrene, 1,7-dimethyl-	66261	000483-87-4	94.00
3	di-p-Tolylacetylene	66238	002789-88-0	93.00
4	Phenanthrene, 2,5-dimethyl-	66257	003674-66-6	91.00
5	Phenanthrene, 2,7-dimethyl-	66262	001576-69-8	81.00



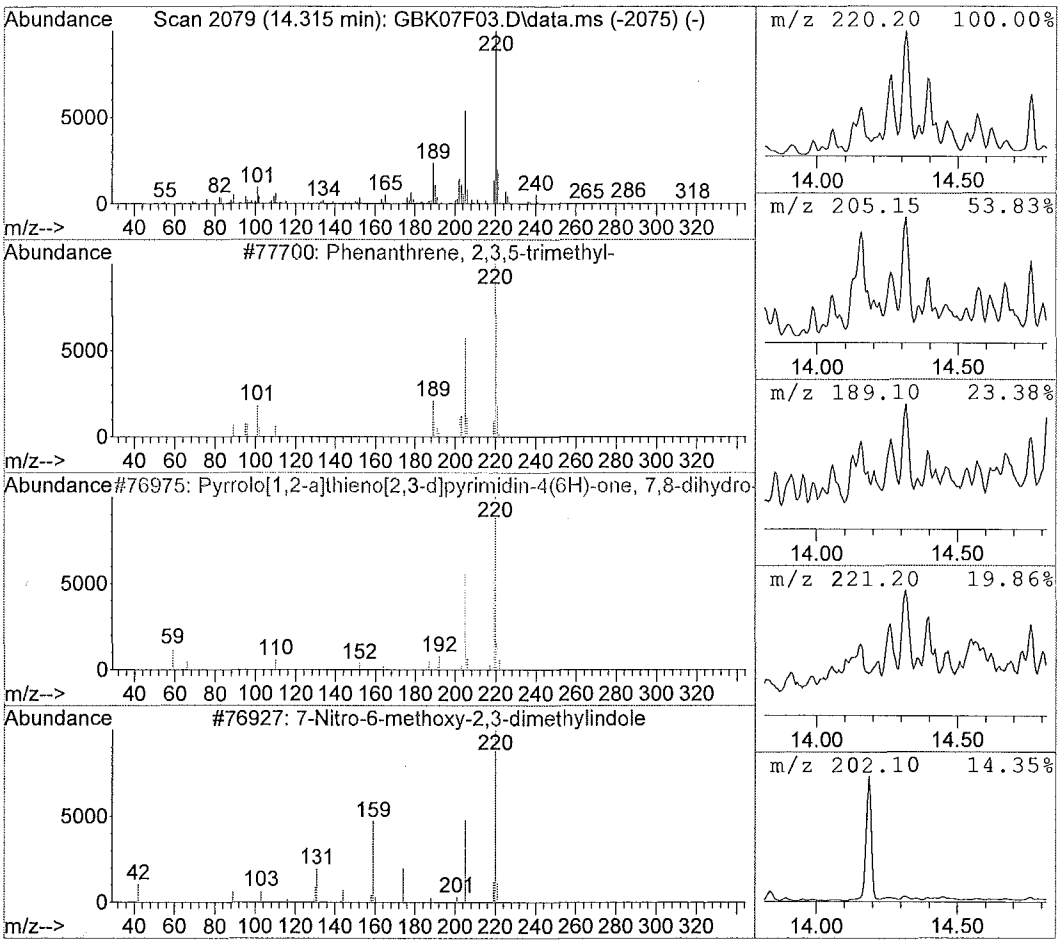
Library Search Compound Report

Data File : R:\G\2015\JUN15\12JUN15\12JUN15\GBK07F03.D Vial: 6
Acq On : 06/12/2015 19:24 Operator: DJC
Sample : 1515542003 F9M23 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p 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
14.32	4.71 ug/ml	942116	Chrysene-d12	3998454

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phenanthrene, 2,3,5-trimethyl-	77700	003674-73-5	91.00
2	Pyrrolo[1,2-a]thieno[2,3-d]pyrimidi	76975	056929-61-4	52.00
3	7-Nitro-6-methoxy-2,3-dimethylindol	76927	068289-71-4	52.00
4	Phenmethylcynide, .alpha.,.alpha.-d	76952	1000128-94-6	50.00
5	6-Methoxy-4-nitroquinoline 1-oxide	76884	025015-35-4	43.00

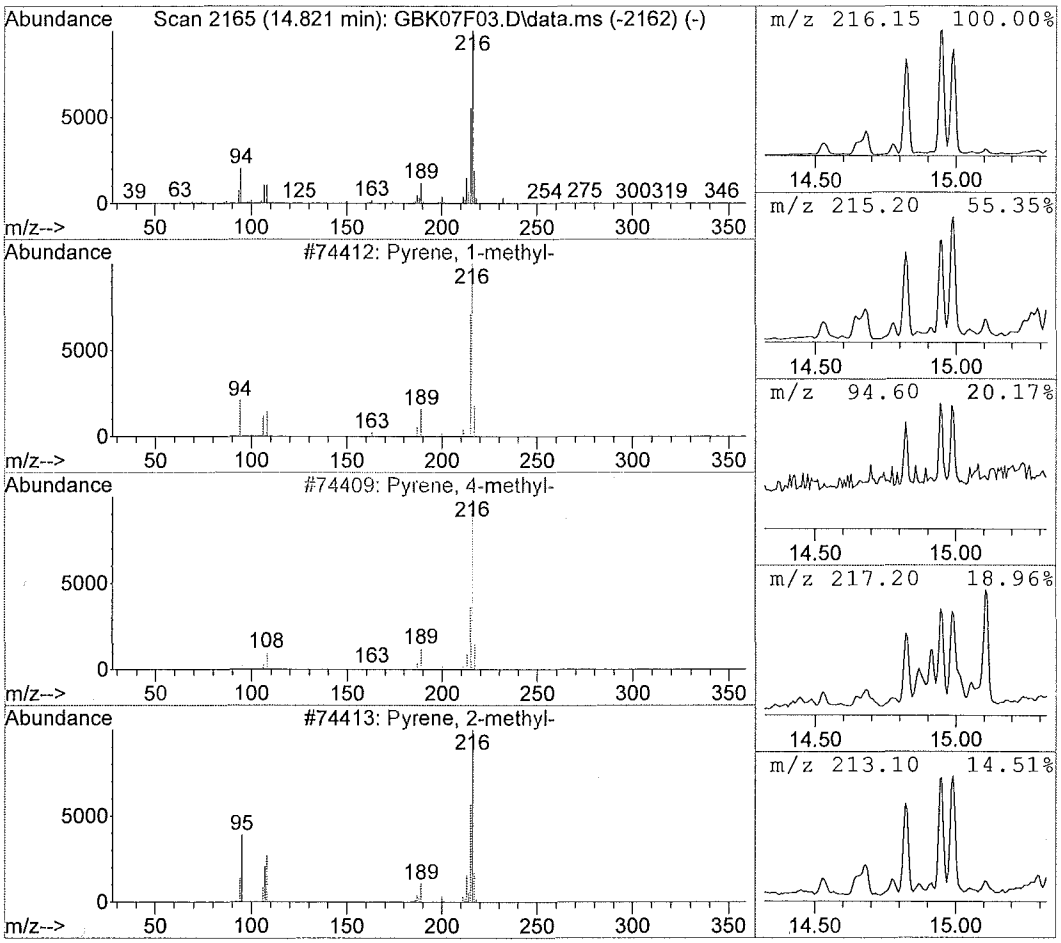


Data File : R:\G\2015\JUN15\12JUN15\12JUN15\GBK07F03.D Vial: 6
Acq On : 06/12/2015 19:24 Operator: DJC
Sample : 1515542003 F9M23 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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
14.82	4.99 ug/ml	996919	Chrysene-d12	3998454

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pyrene, 1-methyl-	74412	002381-21-7	98.00
2	Pyrene, 4-methyl-	74409	003353-12-6	95.00
3	Pyrene, 2-methyl-	74413	003442-78-2	94.00
4	11H-Benzo[a]fluorene	74419	000238-84-6	93.00
5	Fluoranthene, 2-methyl-	74425	033543-31-6	90.00

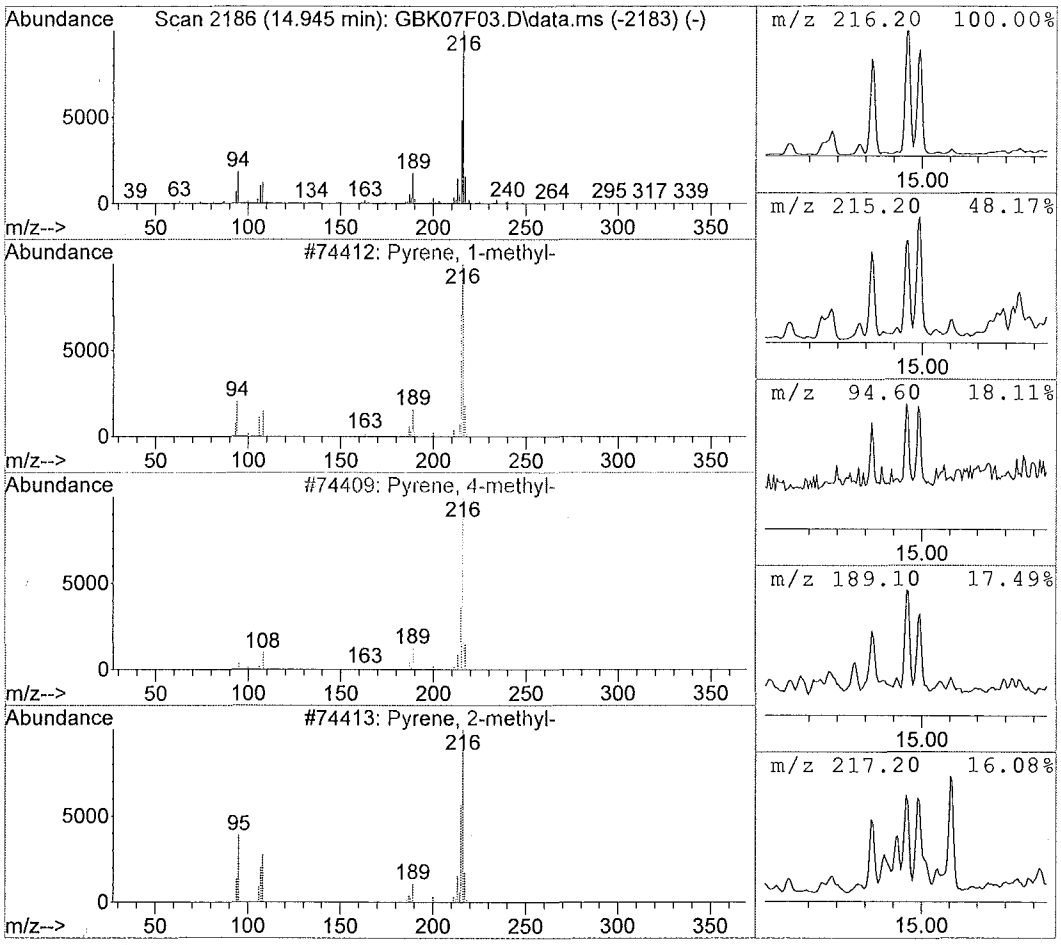


Data File : R:\G\2015\JUN15\12JUN15\12JUN15\GBK07F03.D Vial: 6
Acq On : 06/12/2015 19:24 Operator: DJC
Sample : 1515542003 F9M23 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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
14.94	7.19 ug/ml	1437625	Chrysene-d12	3998454

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pyrene, 1-methyl-	74412	002381-21-7	98.00
2	Pyrene, 4-methyl-	74409	003353-12-6	95.00
3	Pyrene, 2-methyl-	74413	003442-78-2	93.00
4	11H-Benzo[a]fluorene	74419	000238-84-6	90.00
5	11H-Benzo[b]fluorene	74418	000243-17-4	80.00

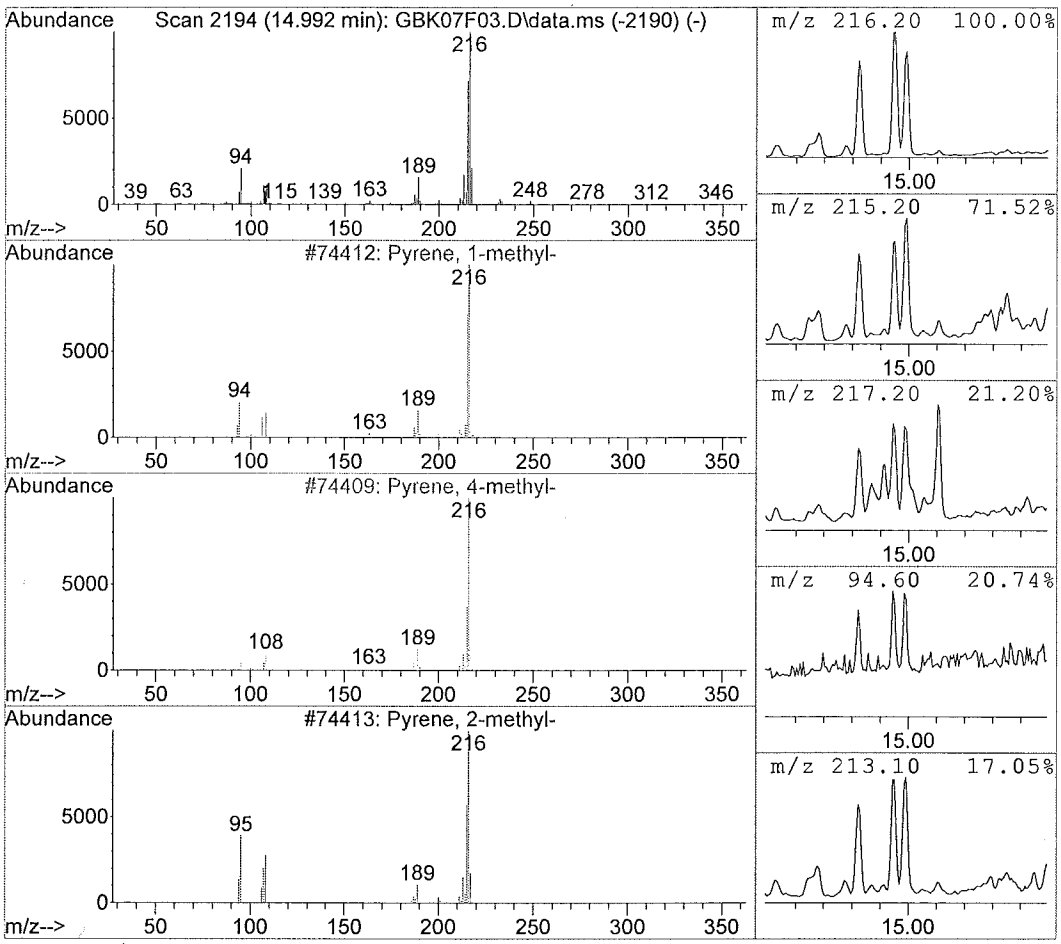


Data File : R:\G\2015\JUN15\12JUN15\12JUN15\GBK07F03.D Vial: 6
Acq On : 06/12/2015 19:24 Operator: DJC
Sample : 1515542003 F9M23 (30) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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
14.99	6.89 ug/ml	1378101	Chrysene-d12	3998454

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pyrene, 1-methyl-	74412	002381-21-7	98.00
2	Pyrene, 4-methyl-	74409	003353-12-6	95.00
3	Pyrene, 2-methyl-	74413	003442-78-2	93.00
4	11H-Benzo[b]fluorene	74418	000243-17-4	91.00
5	Fluoranthene, 2-methyl-	74424	033543-31-6	90.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M24

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GCP05F04

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

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	990	U
108-95-2	Phenol	990	U
111-44-4	Bis(2-chloroethyl)ether	990	U
95-57-8	2-Chlorophenol	990	U
95-48-7	2-Methylphenol	990	U
108-60-1	2,2'-Oxybis(1-chloropropane)	990	U
98-86-2	Acetophenone	990	U
106-44-5	4-Methylphenol	990	U
621-64-7	N-Nitroso-di-n-propylamine	990	U
67-72-1	Hexachloroethane	990	U
98-95-3	Nitrobenzene	990	U
78-59-1	Isophorone	990	U
88-75-5	2-Nitrophenol	990	U
105-67-9	2,4-Dimethylphenol	990	U
111-91-1	Bis(2-chloroethoxy)methane	990	U
120-83-2	2,4-Dichlorophenol	990	U
91-20-3	Naphthalene	990	U
106-47-8	4-Chloroaniline	990	U
87-68-3	Hexachlorobutadiene	990	U
105-60-2	Caprolactam	990	U
59-50-7	4-Chloro-3-methylphenol	990	U
91-57-6	2-Methylnaphthalene	98.	J
77-47-4	Hexachlorocyclopentadiene	990	U
88-06-2	2,4,6-Trichlorophenol	990	U
95-95-4	2,4,5-Trichlorophenol	990	U
92-52-4	1,1'-Biphenyl	990	U
91-58-7	2-Chloronaphthalene	990	U
88-74-4	2-Nitroaniline	1900	U
131-11-3	Dimethylphthalate	990	U
606-20-2	2,6-Dinitrotoluene	990	U
208-96-8	Acenaphthylene	990	U
99-09-2	3-Nitroaniline	1900	U
83-32-9	Acenaphthene	990	U

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

EPA SAMPLE NO.

F9M24

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GCP05F04

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

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	1900	U
132-64-9	Dibenzofuran	990	U
121-14-2	2,4-Dinitrotoluene	990	U
84-66-2	Diethylphthalate	990	U
86-73-7	Fluorene	110	J
7005-72-3	4-Chlorophenyl-phenylether	990	U
100-01-6	4-Nitroaniline	1900	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U
86-30-6	N-Nitrosodiphenylamine[1]	990	U
95-94-3	1,2,4,5-Tetrachlorobenzene	990	U
101-55-3	4-Bromophenyl-phenylether	990	U
118-74-1	Hexachlorobenzene	990	U
1912-24-9	Atrazine	990	U
87-86-5	Pentachlorophenol	1900	U
85-01-8	Phenanthrene	360	J
120-12-7	Anthracene	150	J
86-74-8	Carbazole	990	U
84-74-2	Di-n-butylphthalate	990	U
206-44-0	Fluoranthene	120	J
129-00-0	Pyrene	1300	
85-68-7	Butylbenzylphthalate	990	U
91-94-1	3,3'-Dichlorobenzidine	990	U
56-55-3	Benzo(a)anthracene	130	J
218-01-9	Chrysene	170	J
117-81-7	Bis(2-ethylhexyl)phthalate	990	U
117-84-0	Di-n-octylphthalate	990	U
205-99-2	Benzo(b)fluoranthene	990	U
207-08-9	Benzo(k)fluoranthene	990	U
50-32-8	Benzo(a)pyrene	79.	J
193-39-5	Indeno(1,2,3-cd)pyrene	990	U
53-70-3	Dibenzo(a,h)anthracene	990	U
191-24-2	Benzo(g,h,i)perylene	990	U
58-90-2	2,3,4,6-Tetrachlorophenol	990	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9M24

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GCP05F04

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

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 5.0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 2-Pentanone, 4-hydroxy-	3.30	450	JB
02		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.49	17000	JB
03		Unknown 1H-Pyrrole-2,5-dione	4.27	1300	J
04	575-41-7	Naphthalene, 1,3-dimethyl-	8.33	410	JN
05	2131-42-2	Naphthalene, 1,4,6-trimethyl-	9.09	630	JN
06	2131-42-2	Naphthalene, 1,4,6-trimethyl-	9.25	520	JN
07		Unknown Naphthalene, 1,4,6-trimethyl-	9.61	440	J
08	33930-85-7	Benzene, (4,5,5-trimethyl-1,3-cyclopentadien-1-y	10.36	420	JN
09		Unknown 9H-Fluorene, 2-methyl-	10.83	450	J
10		Unknown Dibenzothiophene, 3-methyl-	12.13	510	J
11	2531-84-2	Phenanthrene, 2-methyl-	12.51	880	JN
12		Unknown 1H-Indene, 2-phenyl-	12.65	570	J
13		Unknown Phenanthrene, 2-methyl-	12.69	660	J
14	781-92-0	Anthracene, 1,4-dimethyl-	13.47	870	JN
15		Unknown Phenanthrene, 2,5-dimethyl-	13.52	890	J
16		Unknown 1H-Indole, 5-methyl-2-phenyl-	13.77	410	J
17		Unknown Tetradecanamide	14.15	590	J
18	3674-73-5	Phenanthrene, 2,3,5-trimethyl-	14.20	390	JN
19	2381-21-7	Pyrene, 1-methyl-	14.72	440	JN
20	2381-21-7	Pyrene, 1-methyl-	14.84	730	JN
21	33543-31-6	Fluoranthene, 2-methyl-	14.89	550	JN
22	301-02-0	9-Octadecenamide, (Z)-	15.07	2000	JNB
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	1600	J

[2] EPA-designated Registry Number.

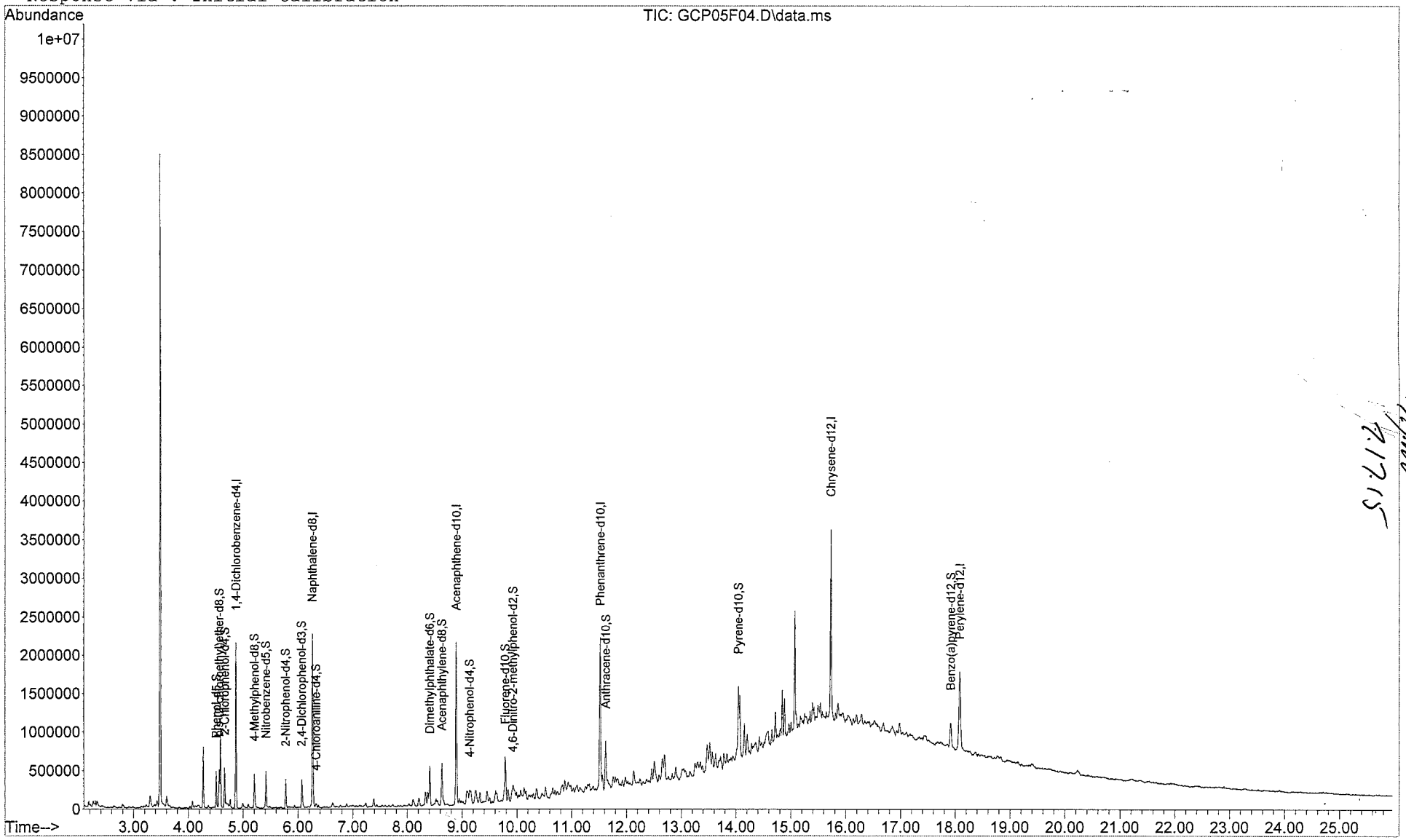
Quantitation Report

Data File : R:\G\2015\JUL15\10JUL15\GCP05F04.D
Acq On : 07/10/2015 11:27
Sample : 1515542004 F9M24 (5)
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 4
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jul 17 08:42:59 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\10JUL15\GCP05F04.D Vial: 4
Acq On : 07/10/2015 11:27 Operator: TJM
Sample : 1515542004 F9M24 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 17 08:42:59 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	290281	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1085227	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	632800	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1053193	20.00 ug/ml
73) Chrysene-d12	15.73	240	1069847	20.00 ug/ml
81) Perylene-d12	18.08	264	746501	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.51	99	141585	5.605ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	104827	5.325ug/mL
7) 2-Chlorophenol-d4	4.66	132	125190	5.870ug/ml
13) 4-Methylphenol-d8	5.20	113	95042	5.625ug/mL
17) Nitrobenzene-d5	5.42	128	53117	5.572ug/ml
21) 2-Nitrophenol-d4	5.77	143	55739	5.531ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	87849	5.599ug/mL
28) 4-Chloroaniline-d4	6.32	131	18866	1.102ug/mL
42) Dimethylphthalate-d6	8.41	166	243858	6.146ug/mL
45) Acenaphthylene-d8	8.63	160	312713	5.799ug/mL
50) 4-Nitrophenol-d4	9.14	143	41458	5.121ug/mL
57) Fluorene-d10	9.79	176	205911	6.076ug/mL
61) 4,6-Dinitro-2-methylphenol	9.93	200	19229	2.572ug/mL
69) Anthracene-d10	11.62	188	340407	6.095ug/mL
75) Pyrene-d10	14.04	212	319206	5.979ug/mL
86) Benzo(a)pyrene-d12	17.92	264	217558	6.082ug/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	7.24	142	17527	0.505ug/ml 99
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)

: 90129

Quantitation Report

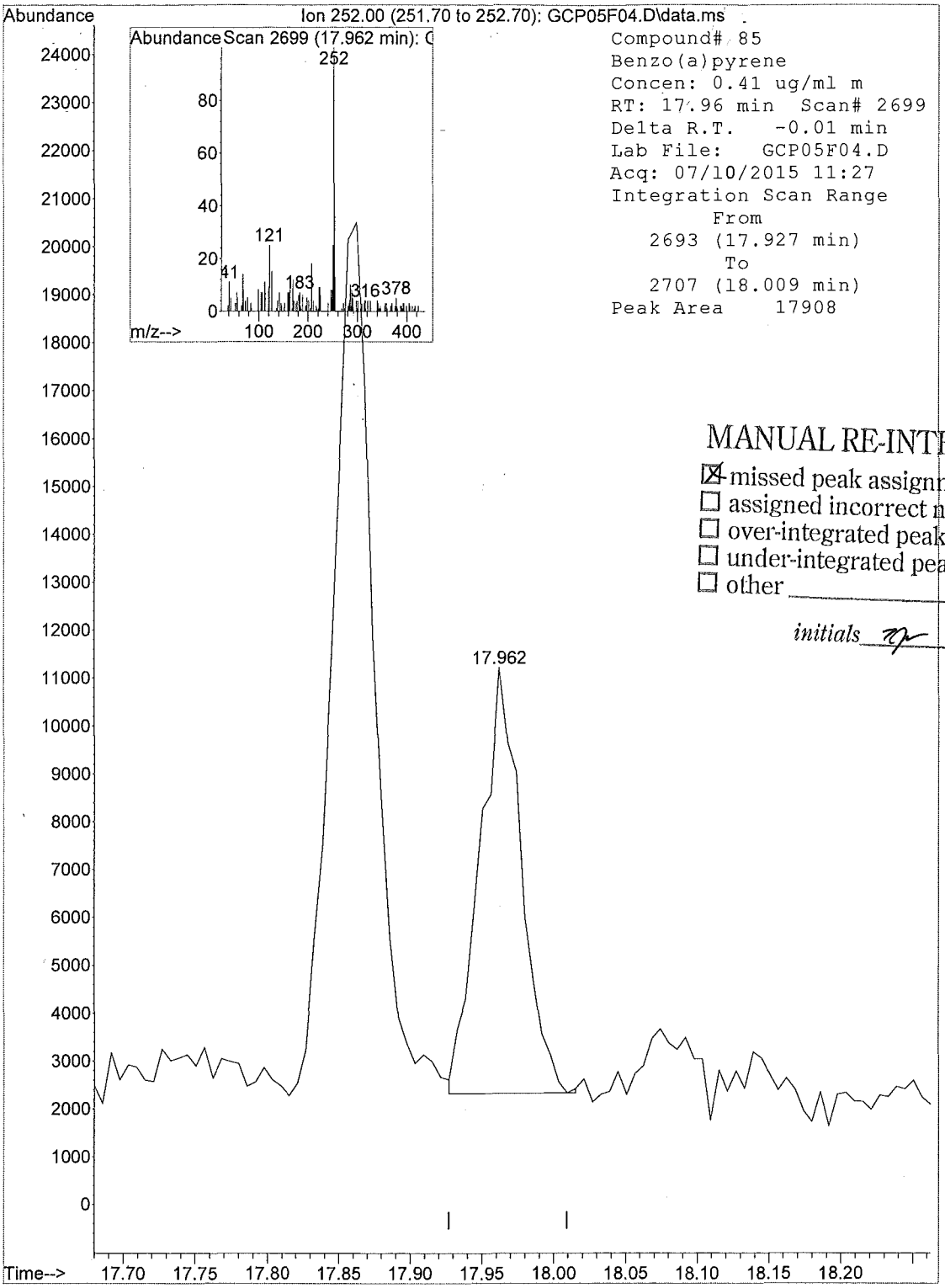
Data File : R:\G\2015\JUL15\10JUL15\GCP05F04.D Vial: 4
Acq On : 07/10/2015 11:27 Operator: TJM
Sample : 1515542004 F9M24 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 17 08:42:59 2015 Results File: GSOM01D6.RES

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	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	9.84	166	20721	0.544ug/ml	84
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	105808	1.884ug/ml	97
68) Anthracene	11.66	178	43419	0.757ug/ml	54
70) Carbazole	0.00	167		Not Detected	
71) Di-n-butylphthalate	0.00	149		Not Detected	
72) Fluoranthene	13.72	202	39270	0.634ug/ml	89
74) Pyrene	14.07	202	455758	6.692ug/ml	95
76) Butylbenzylphthalate	0.00	149		Not Detected	
77) 3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78) Benzo(a)anthracene	15.72	228	43921	0.677ug/ml	1
79) Chrysene	15.76	228	50339	0.859ug/ml	62
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	17.96	252	17908	0.407ug/ml m	99 7.17.15
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)

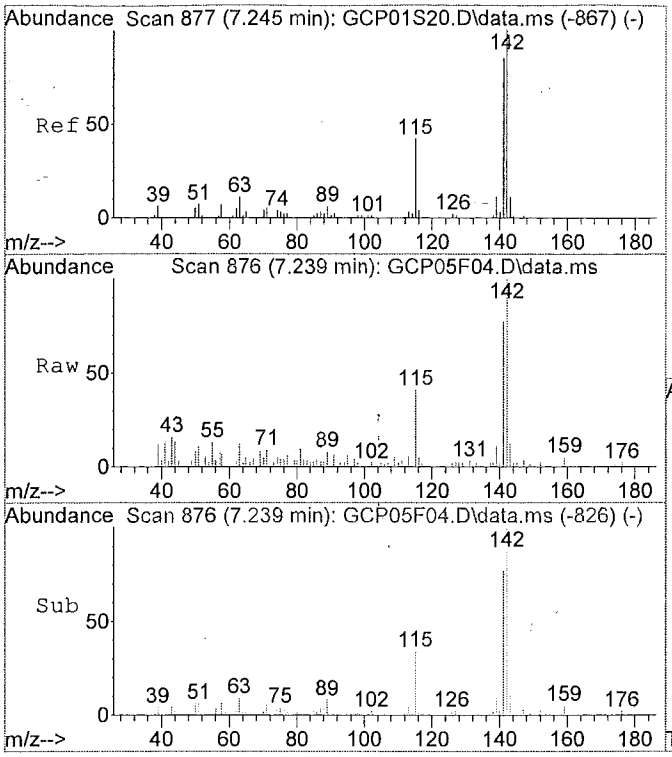
M A N U A L I N T E G R A T I O N FOR Benzo(a)pyrene



MANUAL RE-INTEGRATION

- ☒ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

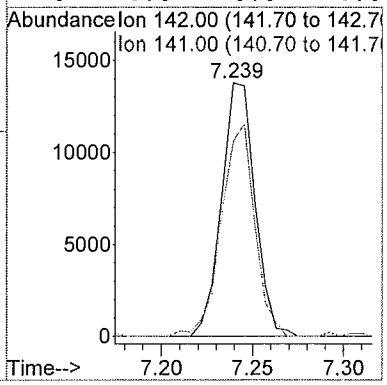
initials ____ *date* 7.17.15

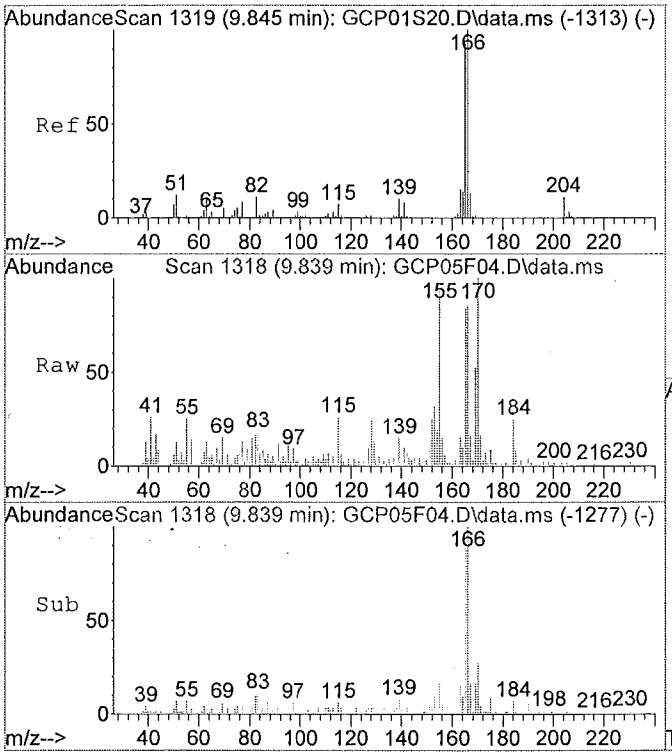


#32
2-Methylnaphthalene
Concen: 0.50 ug/ml
RT: 7.24 min Scan# 876
Delta R.T. -0.01 min
Lab File: GCP05F04.D
Acq: 07/10/2015 11:27

Tgt Ion:142 Resp: 17527

Ion	Ratio	Lower	Upper
142	100		
141	83.6	57.7	107.3
0	0.0	0.0	0.0
0	0.0	0.0	0.0

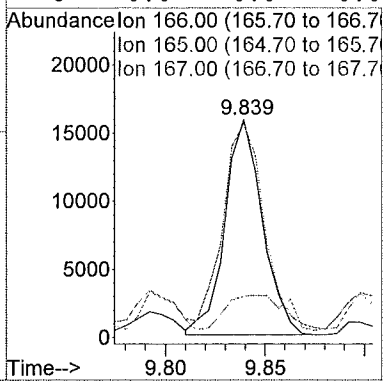


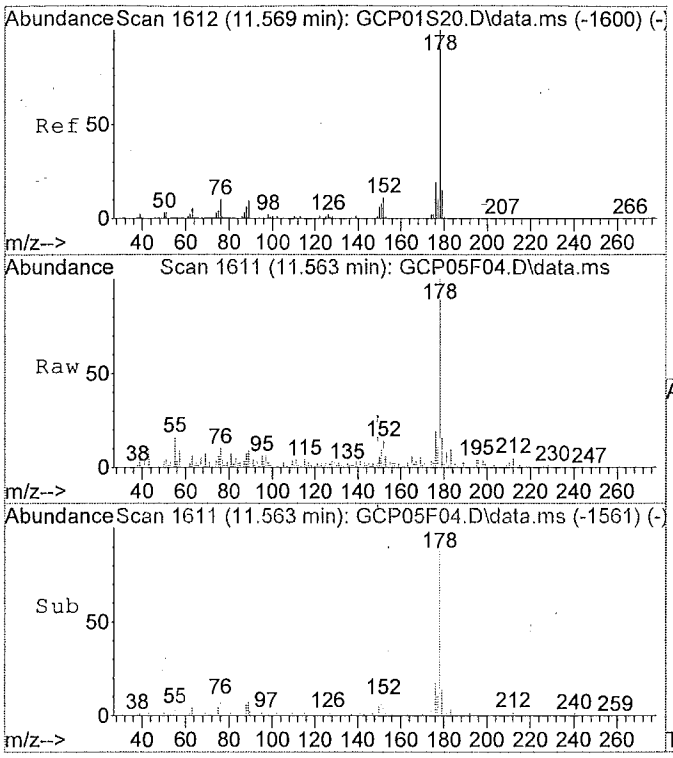


#56
Fluorene
Concen: 0.54 ug/ml
RT: 9.84 min Scan# 1318
Delta R.T. -0.01 min
Lab File: GCP05F04.D
Acq: 07/10/2015 11:27

Tgt Ion:166 Resp: 20721

Ion	Ratio	Lower	Upper
166	100		
165	103.9	63.8	118.4
167	26.1	9.3	17.3#
0	0.0	0.0	0.0

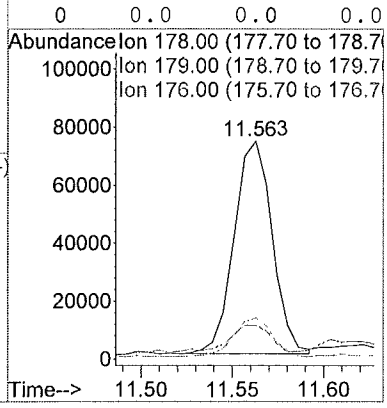


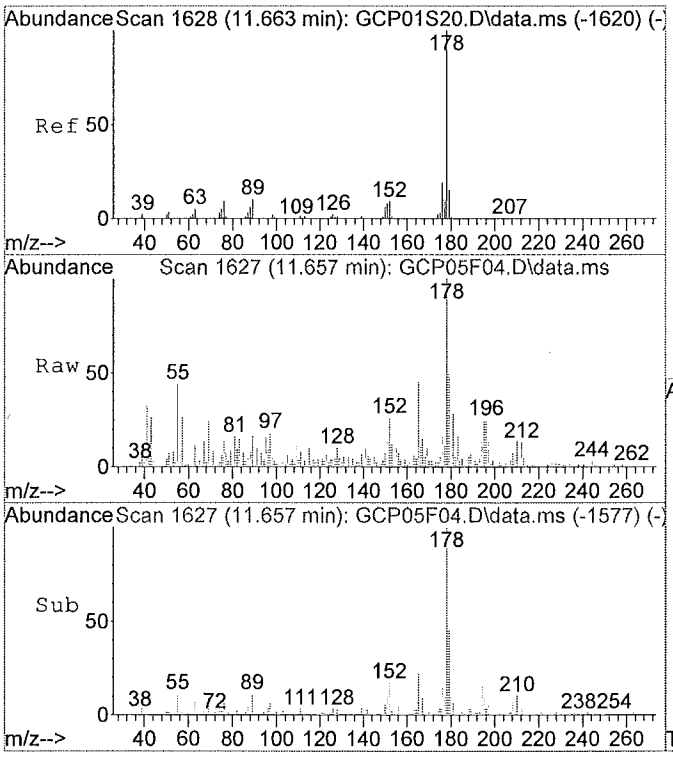


#67
Phenanthrene
Concen: 1.88 ug/ml
RT: 11.56 min Scan# 1611
Delta R.T. -0.01 min
Lab File: GCP05F04.D
Acq: 07/10/2015 11:27

Tgt Ion:178 Resp: 105808

Ion	Ratio	Lower	Upper
178	100		
179	12.6	10.6	19.8
176	19.2	13.2	24.4
0	0.0	0.0	0.0

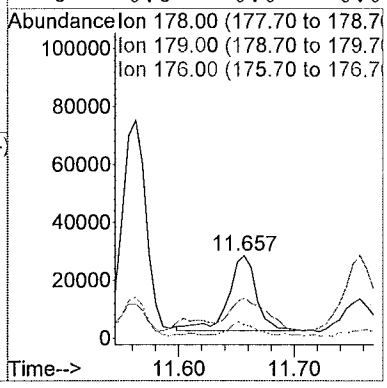




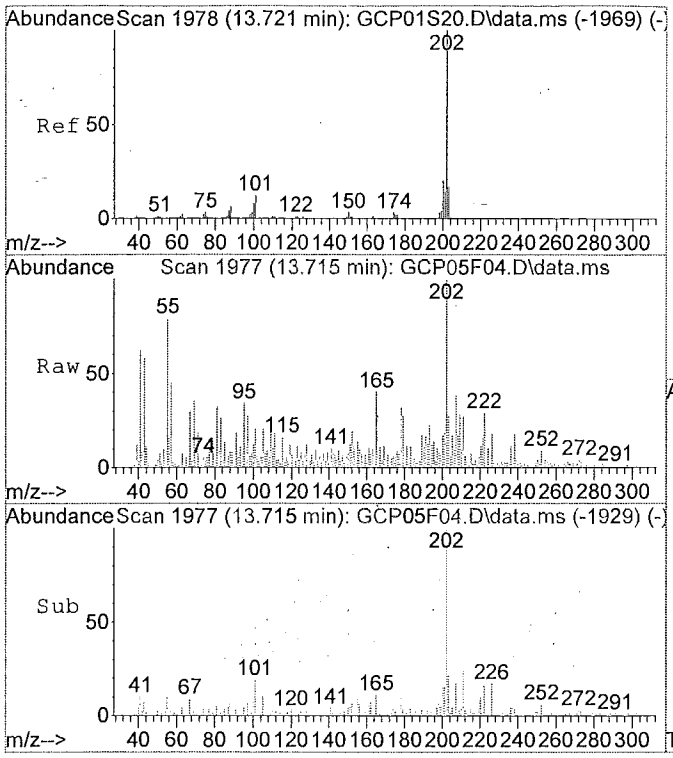
#68
Anthracene
Concen: 0.76 ug/ml
RT: 11.66 min Scan# 1627
Delta R.T. -0.01 min
Lab File: GCP05F04.D
Acq: 07/10/2015 11:27

Tgt Ion:178 Resp: 43419

Ion	Ratio	Lower	Upper
178	100		
179	54.3	10.5	19.5#
176	15.1	12.7	23.5
0	0.0	0.0	0.0



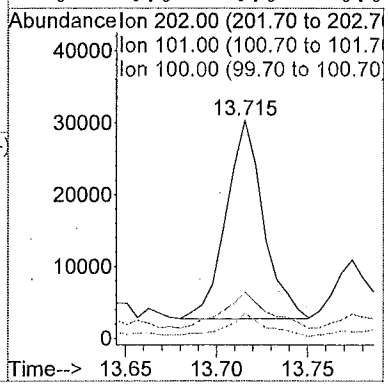
: 001133

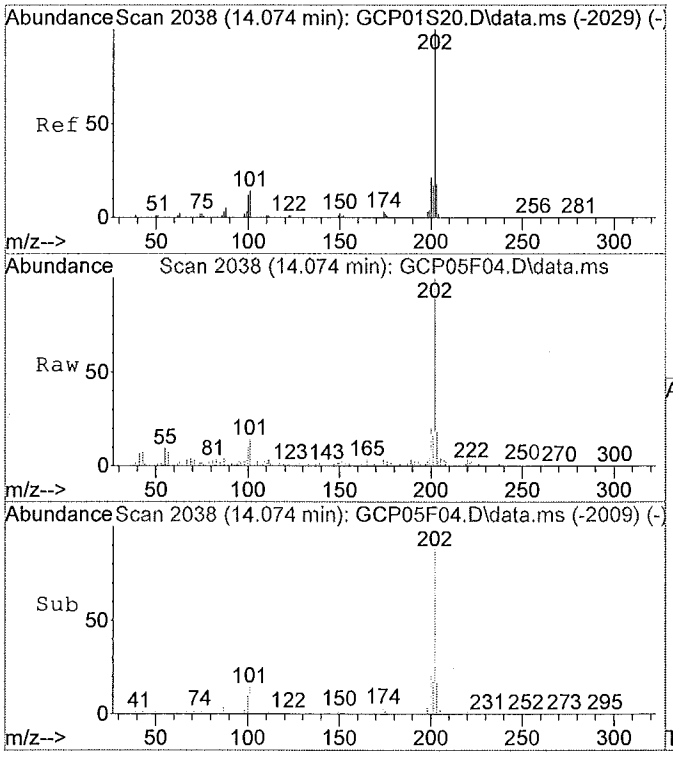


#72
Fluoranthene
Concen: 0.63 ug/ml
RT: 13.72 min Scan# 1977
Delta R.T. -0.01 min
Lab File: GCP05F04.D
Acq: 07/10/2015 11:27

Tgt Ion:202 Resp: 39270

Ion	Ratio	Lower	Upper
202	100		
101	22.0	10.5	19.5#
100	12.0	7.4	13.8
0	0.0	0.0	0.0

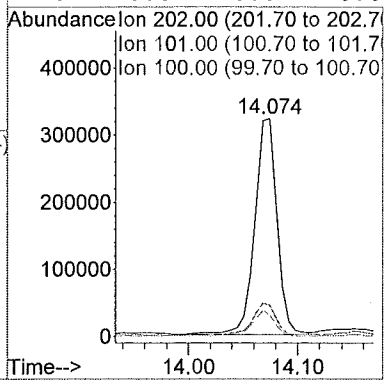


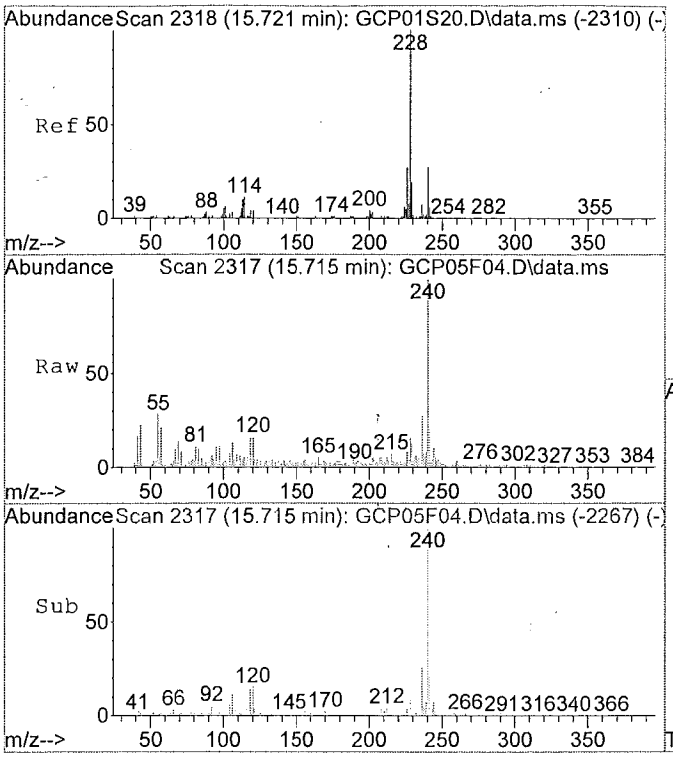


#74
Pyrene
Concen: 6.69 ug/ml
RT: 14.07 min Scan# 2038
Delta R.T. -0.00 min
Lab File: GCP05F04.D
Acq: 07/10/2015 11:27

Tgt Ion:202 Resp: 455758

Ion	Ratio	Lower	Upper
202	100		
101	15.2	12.2	22.7
100	12.8	10.1	18.7
0	0.0	0.0	0.0

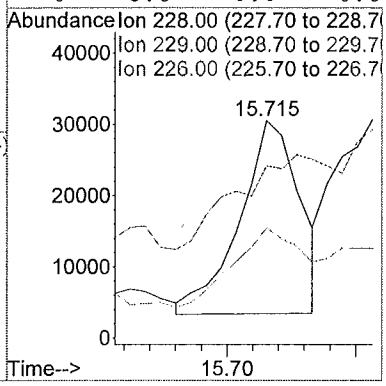


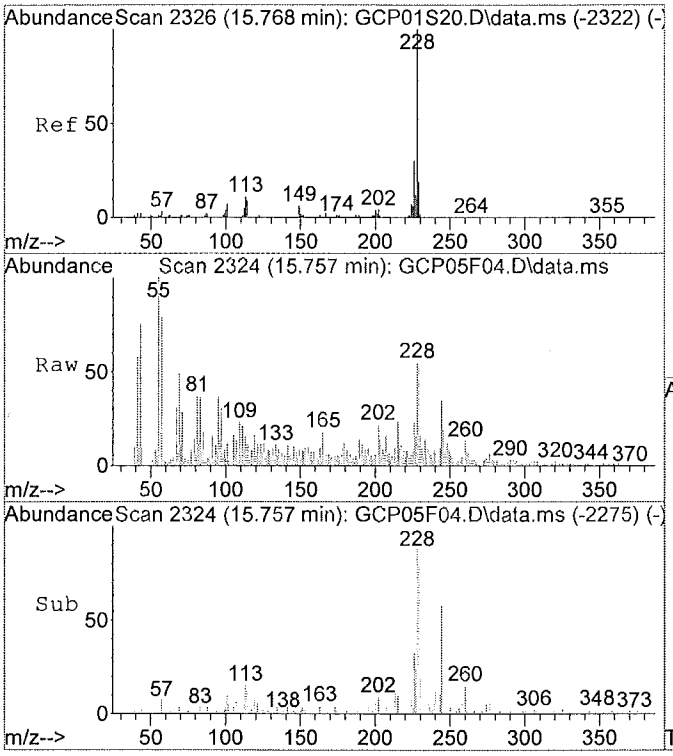


#78
Benzo(a)anthracene
Concen: 0.68 ug/ml
RT: 15.72 min Scan# 2317
Delta R.T. -0.01 min
Lab File: GCP05F04.D
Acq: 07/10/2015 11:27

Tgt Ion:228 Resp: 43921

Ion	Ratio	Lower	Upper
228	100		
229	106.5	13.7	25.5#
226	47.8	18.2	33.8#
0	0.0	0.0	0.0

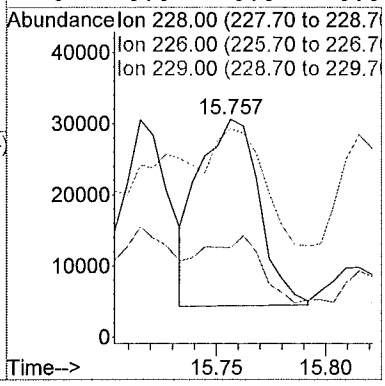


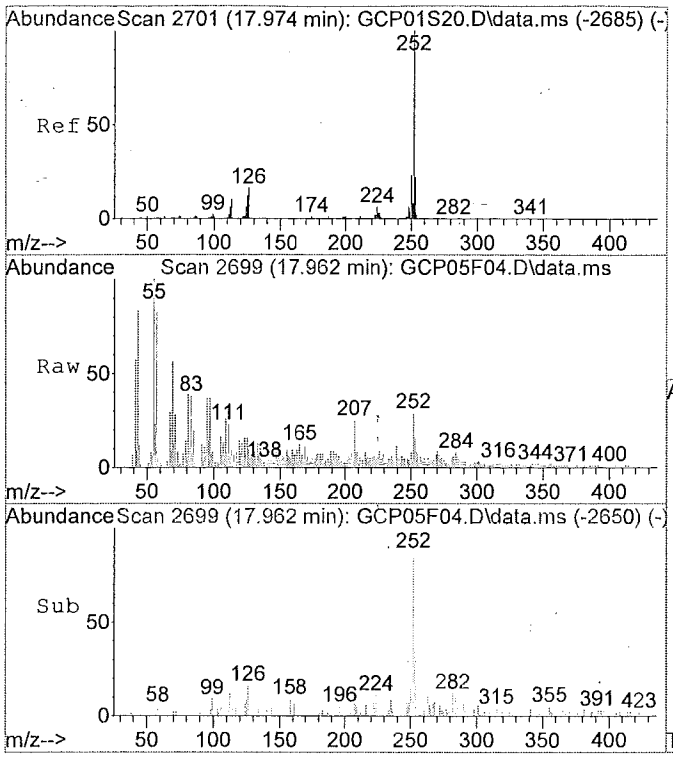


#79
Chrysene
Concen: 0.86 ug/ml
RT: 15.76 min Scan# 2324
Delta R.T. -0.01 min
Lab File: GCP05F04.D
Acq: 07/10/2015 11:27

Tgt Ion:228 Resp: 50339

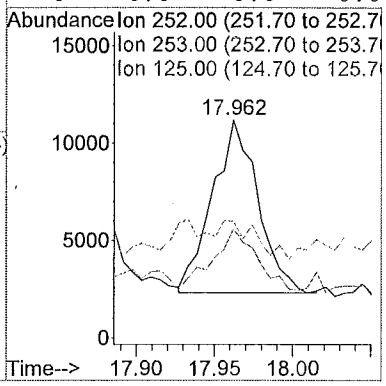
Ion	Ratio	Lower	Upper
228	100		
226	30.3	20.1	37.3
229	59.7	13.7	25.5#
0	0.0	0.0	0.0





#85
Benzo(a)pyrene
Concen: 0.41 ug/m1 m
RT: 17.96 min Scan# 2699
Delta R.T. -0.01 min
Lab File: GCP05F04.D
Acq: 07/10/2015 11:27

Tgt Ion:252	Resp:	17908	
Ion	Ratio	Lower	Upper
252	100		
253	44.8	15.2	28.2#
125	36.0	11.8	21.8#
0	0.0	0.0	0.0



Library Search Compound Report

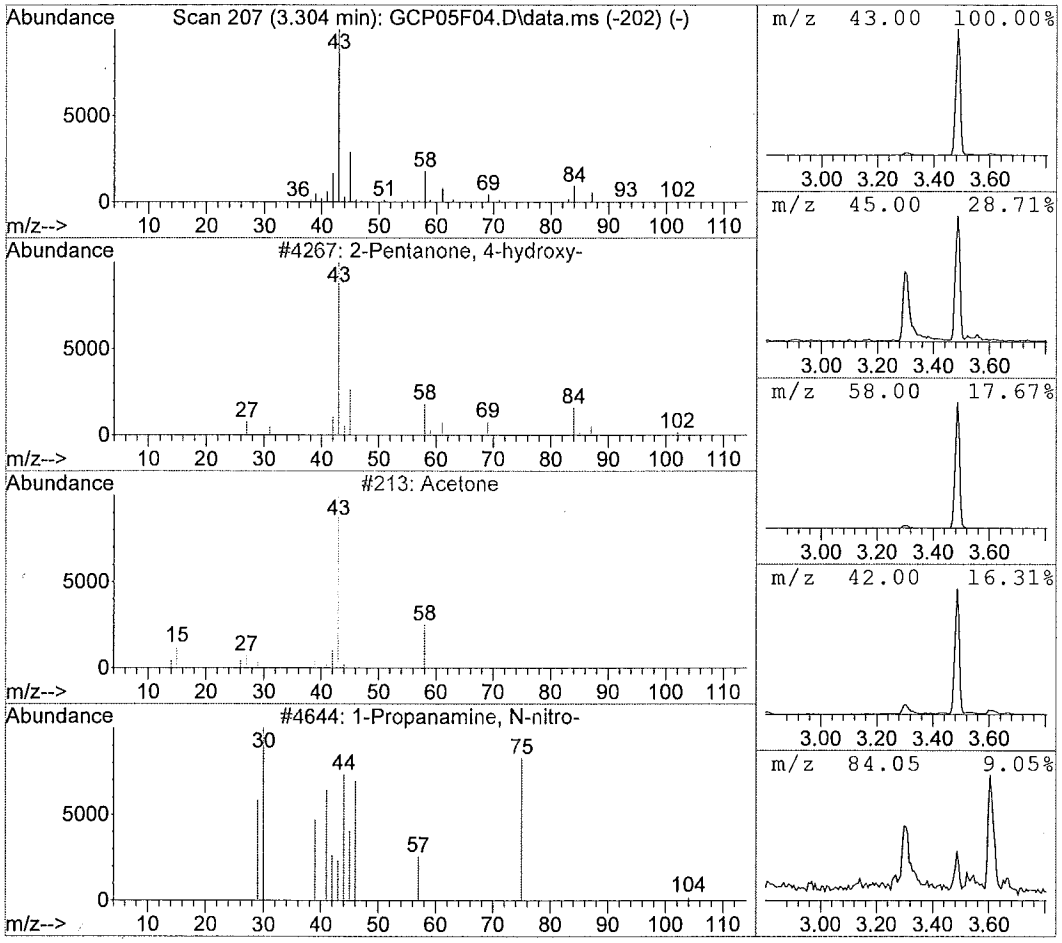
Data File : R:\G\2015\JUL15\10JUL15\GCP05F04.D
Acq On : 07/10/2015 11:27
Sample : 1515542004 F9M24 (5)
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 4
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	2.35 ug/ml	246121	1,4-Dichlorobenzene-d4	2096609

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	50.00
2	Acetone	213	000067-64-1	16.00
3	1-Propanamine, N-nitro-	4644	000627-07-6	9.00
4	Butane	234	000106-97-8	9.00
5	Acetic acid, hexyl ester	20873	000142-92-7	9.00



00137

Library Search Compound Report

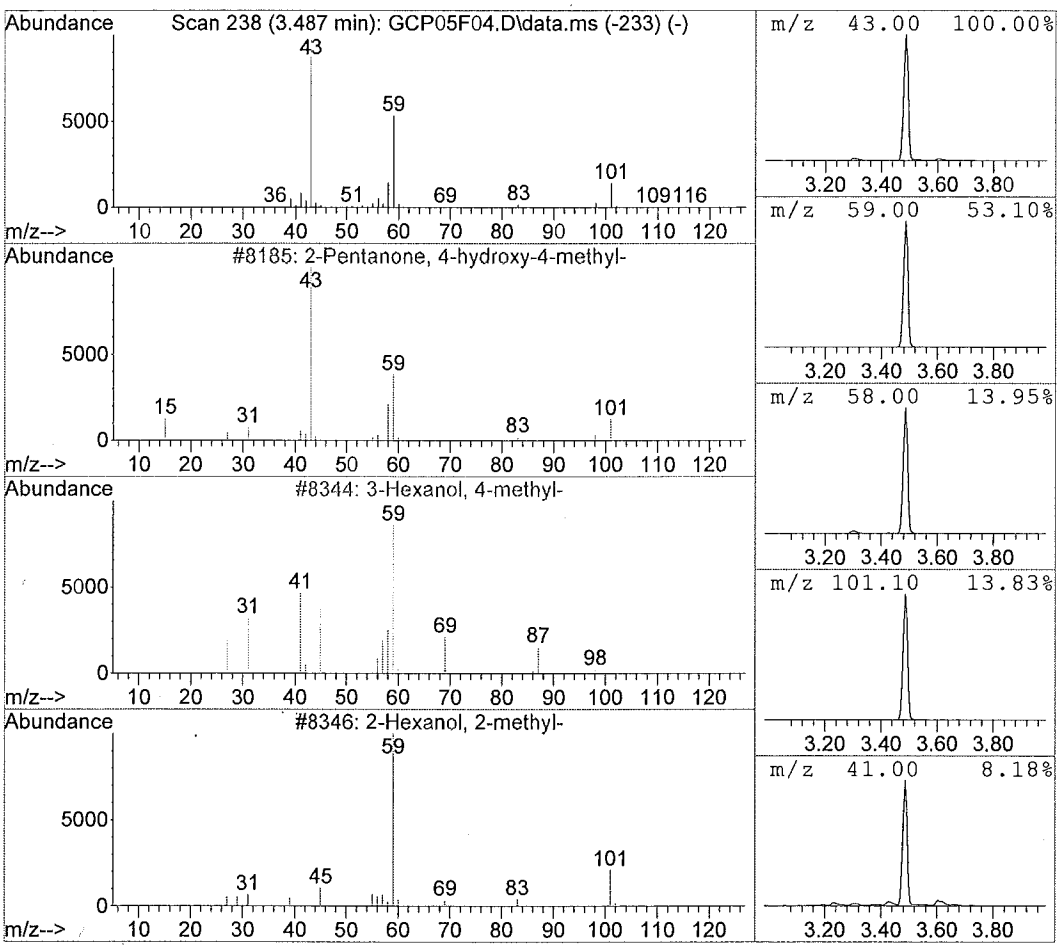
Data File : R:\G\2015\JUL15\10JUL15\GCP05F04.D
Acq On : 07/10/2015 11:27
Sample : 1515542004 F9M24 (5)
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 4
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
3.49	87.62 ug/ml	9185601	1,4-Dichlorobenzene-d4	2096609

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8185	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	25.00
5	2,3-Butanedione, monooxime	4030	000057-71-6	9.00



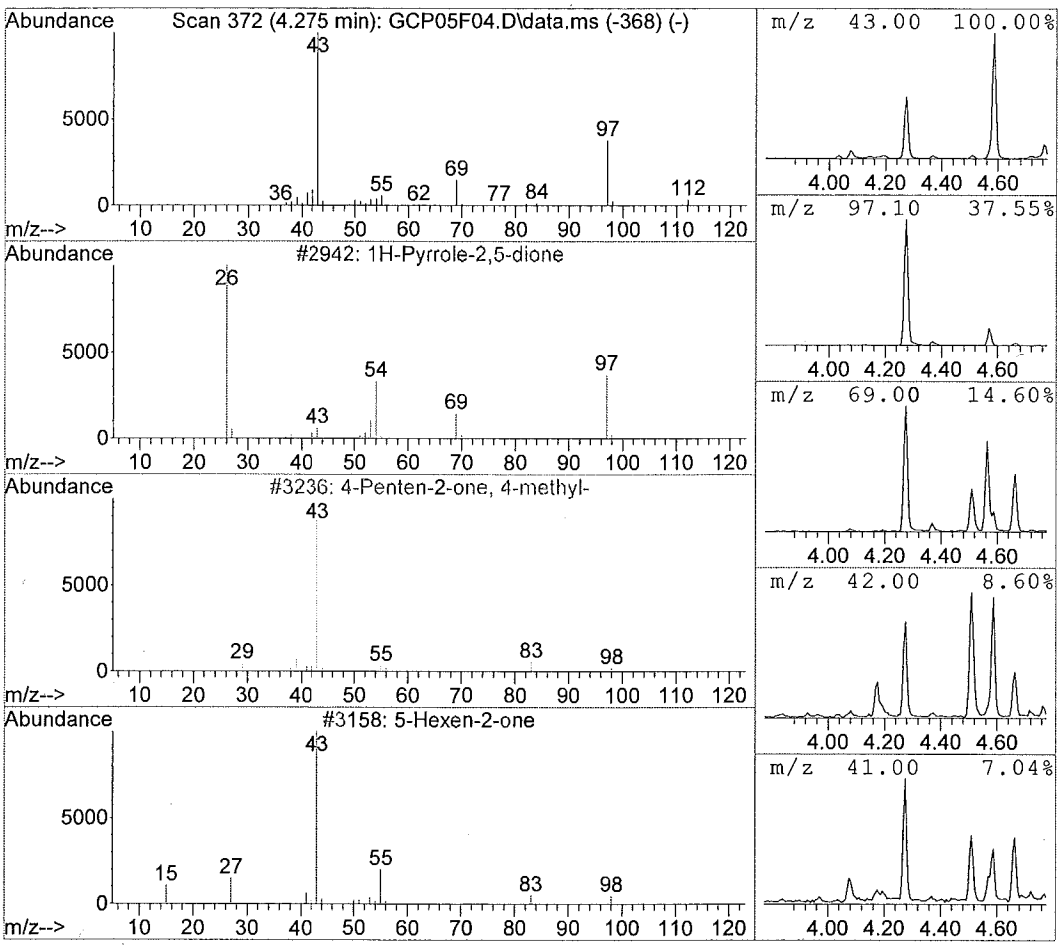
00139

Data File : R:\G\2015\JUL15\10JUL15\GCP05F04.D Vial: 4
Acq On : 07/10/2015 11:27 Operator: TJM
Sample : 1515542004 F9M24 (5) 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	6.76 ug/ml	708698	1,4-Dichlorobenzene-d4	2096609

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	2-Propyn-1-ol, acetate	3098	000627-09-8	5.00
5	5-Hexen-2-one, 5-methyl-	6529	003240-09-3	5.00



Library Search Compound Report

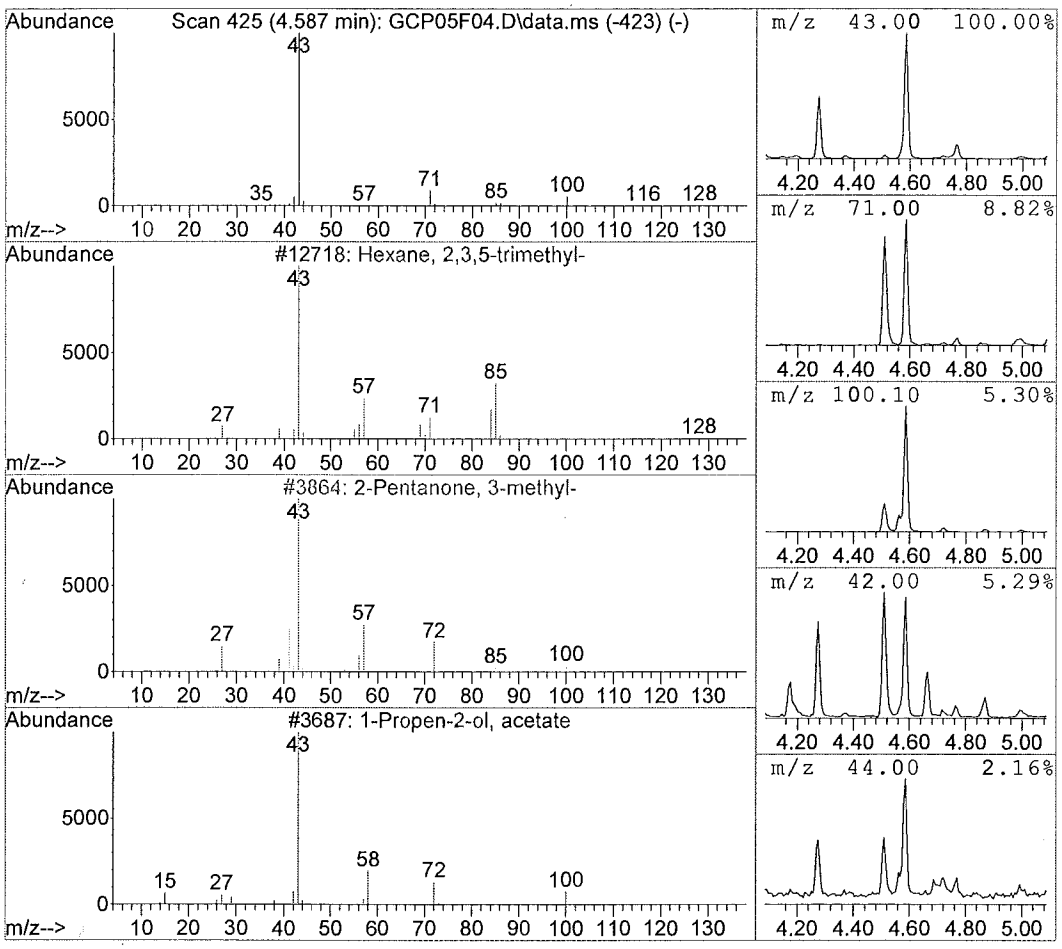
Data File : R:\G\2015\JUL15\10JUL15\GCP05F04.D
Acq On : 07/10/2015 11:27
Sample : 1515542004 F9M24 (5)
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 4
Operator: TJM
Inst : 5975-G
Injection volume : luL
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	8.08 ug/ml	847230	1,4-Dichlorobenzene-d4	2096609

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	7.00
2	2-Pentanone, 3-methyl-	3864	000565-61-7	5.00
3	1-Propen-2-ol, acetate	3687	000108-22-5	5.00
4	Pentane, 3-ethyl-2,4-dimethyl- BA	12745	001068-87-7	5.00
5	Hexane, 2,3,4-trimethyl-	12706	000921-47-1	5.00



Library Search Compound Report

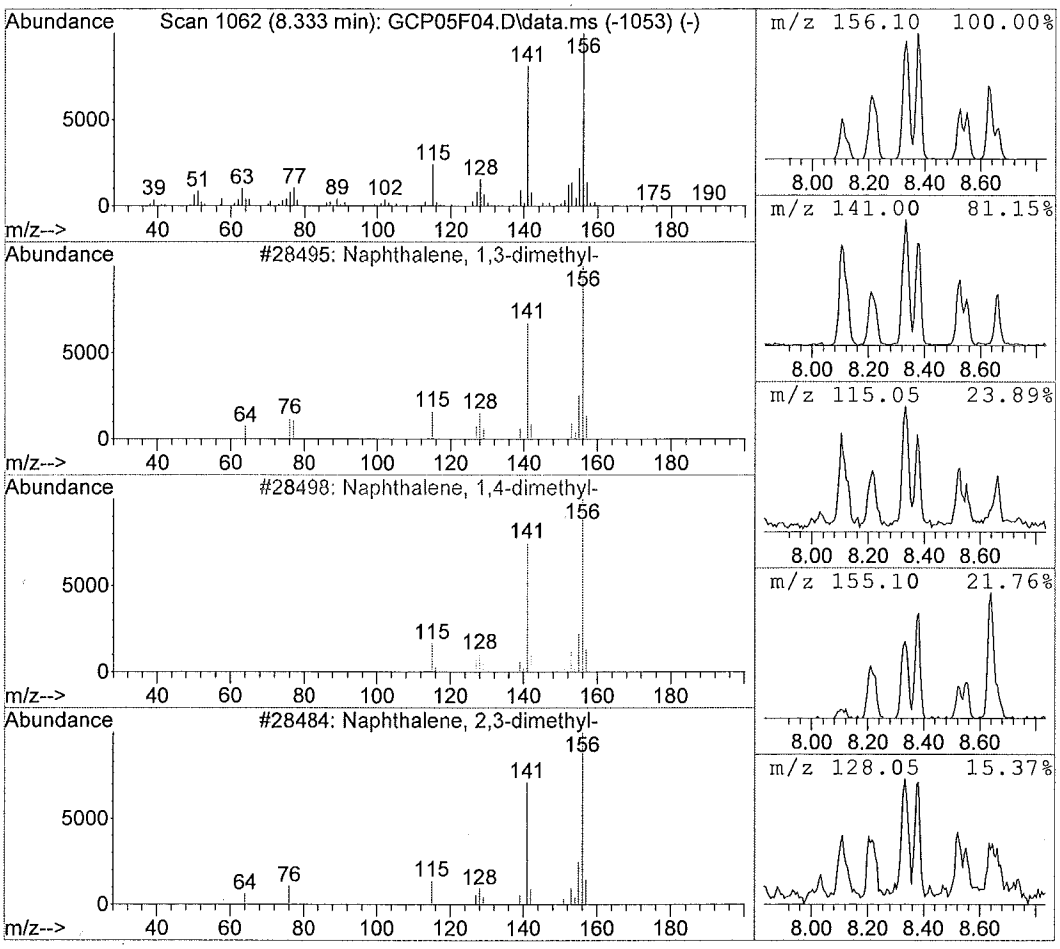
Data File : R:\G\2015\JUL15\10JUL15\GCP05F04.D
Acq On : 07/10/2015 11:27
Sample : 1515542004 F9M24 (5)
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 4
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
8.33	2.11 ug/ml	299031	Acenaphthene-d10	2829427

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, 1,3-dimethyl-	28495	000575-41-7	97.00
2	Naphthalene, 1,4-dimethyl-	28498	000571-58-4	96.00
3	Naphthalene, 2,3-dimethyl-	28484	000581-40-8	95.00
4	Naphthalene, 2,7-dimethyl-	28483	000582-16-1	95.00
5	Naphthalene, 1,8-dimethyl-	28473	000569-41-5	94.00



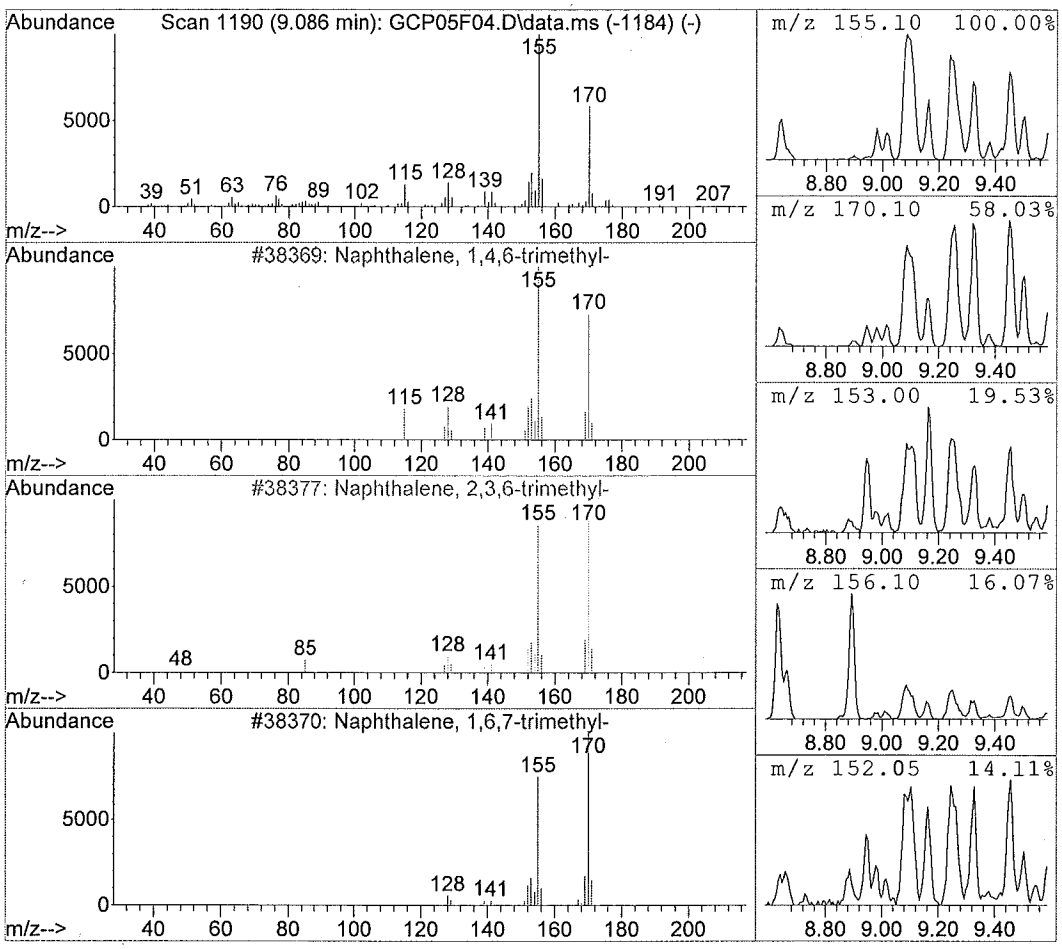
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP05F04.D Vial: 4
Acq On : 07/10/2015 11:27 Operator: TJM
Sample : 1515542004 F9M24 (5) 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
9.09	3.25 ug/ml	459541	Acenaphthene-d10	2829427

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, 1,4,6-trimethyl-	38369	002131-42-2	95.00
2	Naphthalene, 2,3,6-trimethyl-	38377	000829-26-5	94.00
3	Naphthalene, 1,6,7-trimethyl-	38370	002245-38-7	91.00
4	Naphthalene, 2-(1-methylethyl)-	38382	002027-17-0	91.00
5	3-(2-Methyl-propenyl)-1H-indene	38380	1000187-78-5	87.00



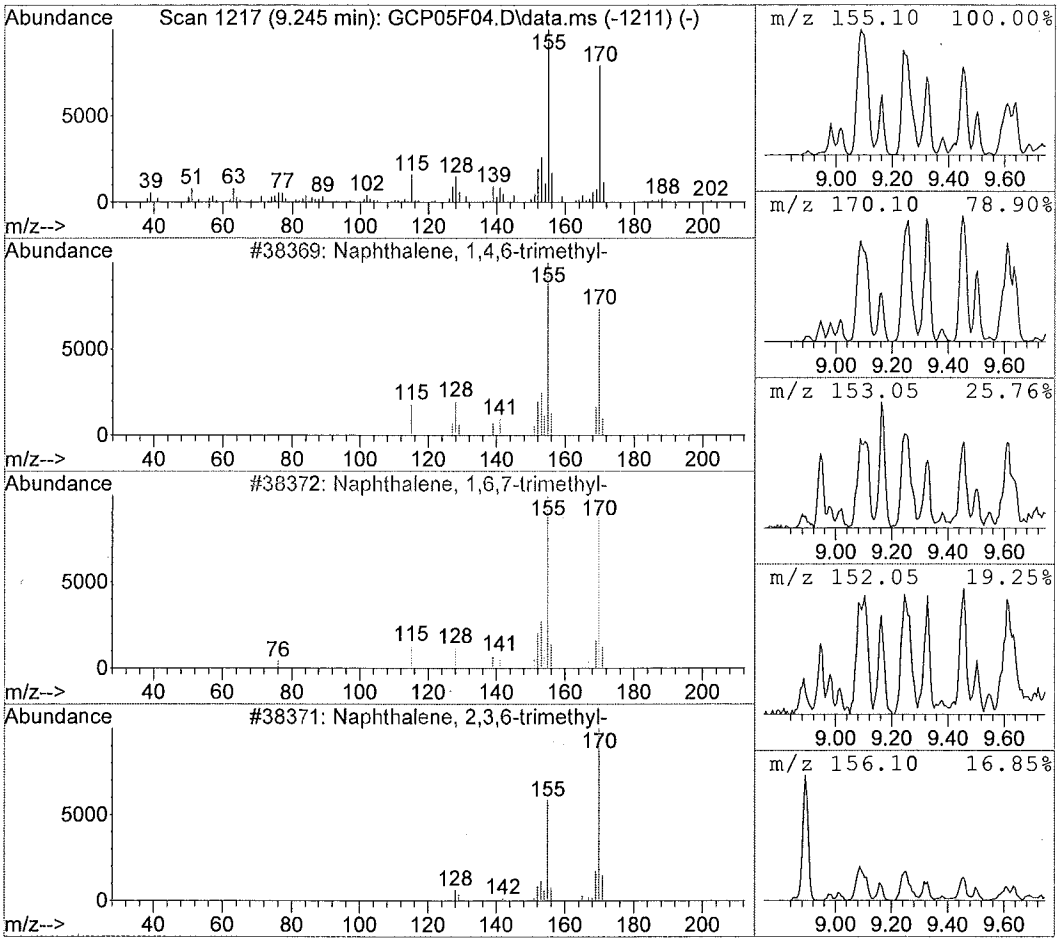
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP05F04.D Vial: 4
Acq On : 07/10/2015 11:27 Operator: TJM
Sample : 1515542004 F9M24 (5) 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
9.25	2.67 ug/ml	377929	Acenaphthene-d10	2829427

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, 1,4,6-trimethyl-	38369	002131-42-2	95.00
2	Naphthalene, 1,6,7-trimethyl-	38372	002245-38-7	94.00
3	Naphthalene, 2,3,6-trimethyl-	38371	000829-26-5	94.00
4	4,6,8-Trimethylazulene	38363	000941-81-1	80.00
5	Naphthalene, 2-(1-methylethyl)-	38382	002027-17-0	64.00

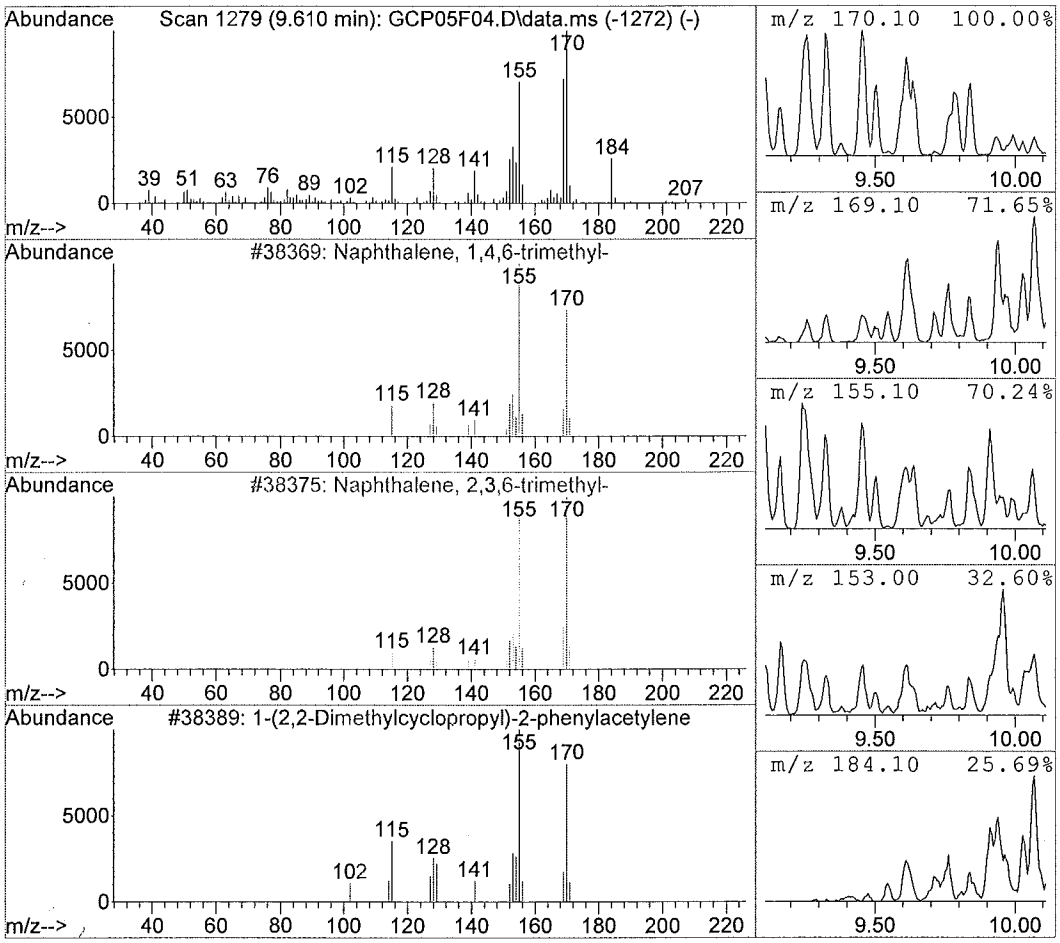


Data File : R:\G\2015\JUL15\10JUL15\GCP05F04.D Vial: 4
Acq On : 07/10/2015 11:27 Operator: TJM
Sample : 1515542004 F9M24 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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
9.61	2.28 ug/ml	322632	Acenaphthene-d10	2829427

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, 1,4,6-trimethyl-	38369	002131-42-2	64.00
2	Naphthalene, 2,3,6-trimethyl-	38375	000829-26-5	58.00
3	1-(2,2-Dimethylcyclopropyl)-2-pheny	38389	1000294-91-1	53.00
4	Naphthalene, 1,6,7-trimethyl-	38374	002245-38-7	53.00
5	4,6,8-Trimethylazulene	38364	000941-81-1	52.00



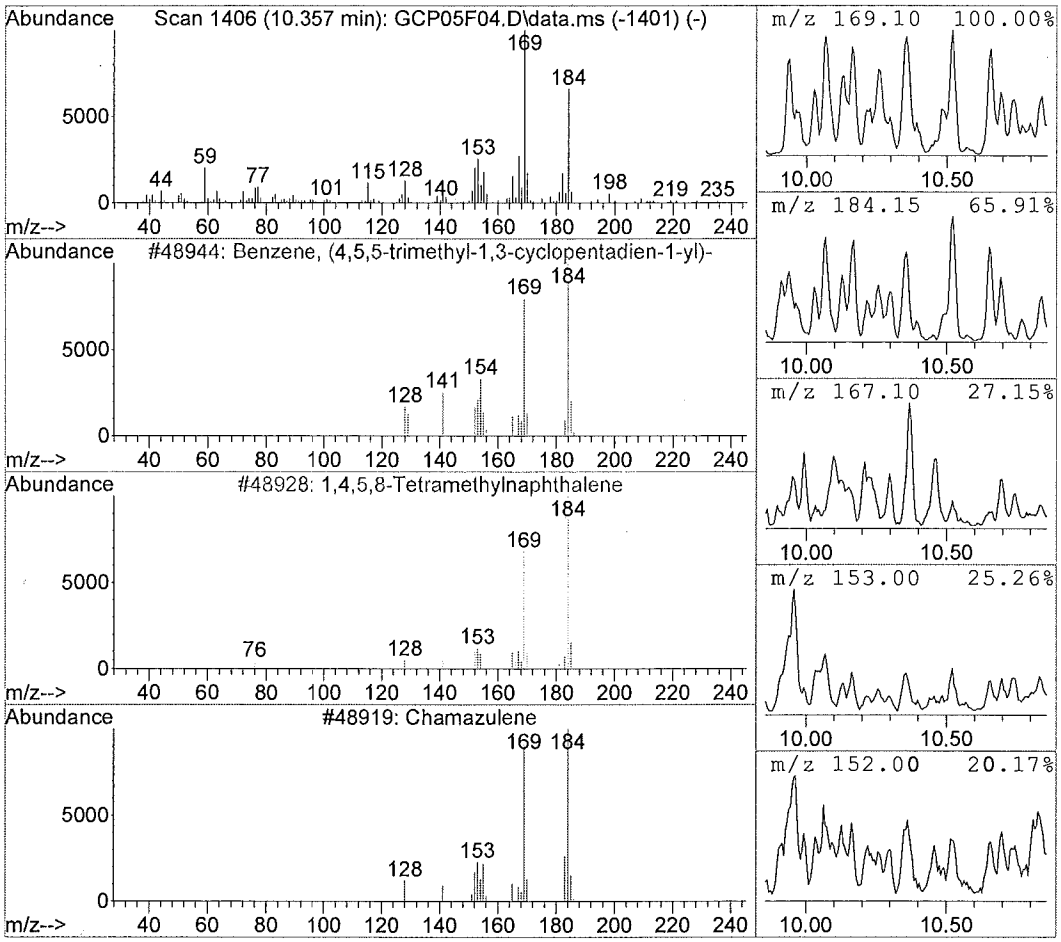
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP05F04.D Vial: 4
Acq On : 07/10/2015 11:27 Operator: TJM
Sample : 1515542004 F9M24 (5) 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
10.36	2.18 ug/ml	293499	Phenanthrene-d10	2691935

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Benzene, (4,5,5-trimethyl-1,3-cyclo	48944	033930-85-7	90.00
2	1,4,5,8-Tetramethylnaphthalene	48928	002717-39-7	90.00
3	Chamazulene	48919	000529-05-5	64.00
4	Naphthalene, 1,2,3,4-tetramethyl-	48934	003031-15-0	58.00
5	Naphthalene, 2-(1,1-dimethylethyl)-	48938	002876-35-9	47.00



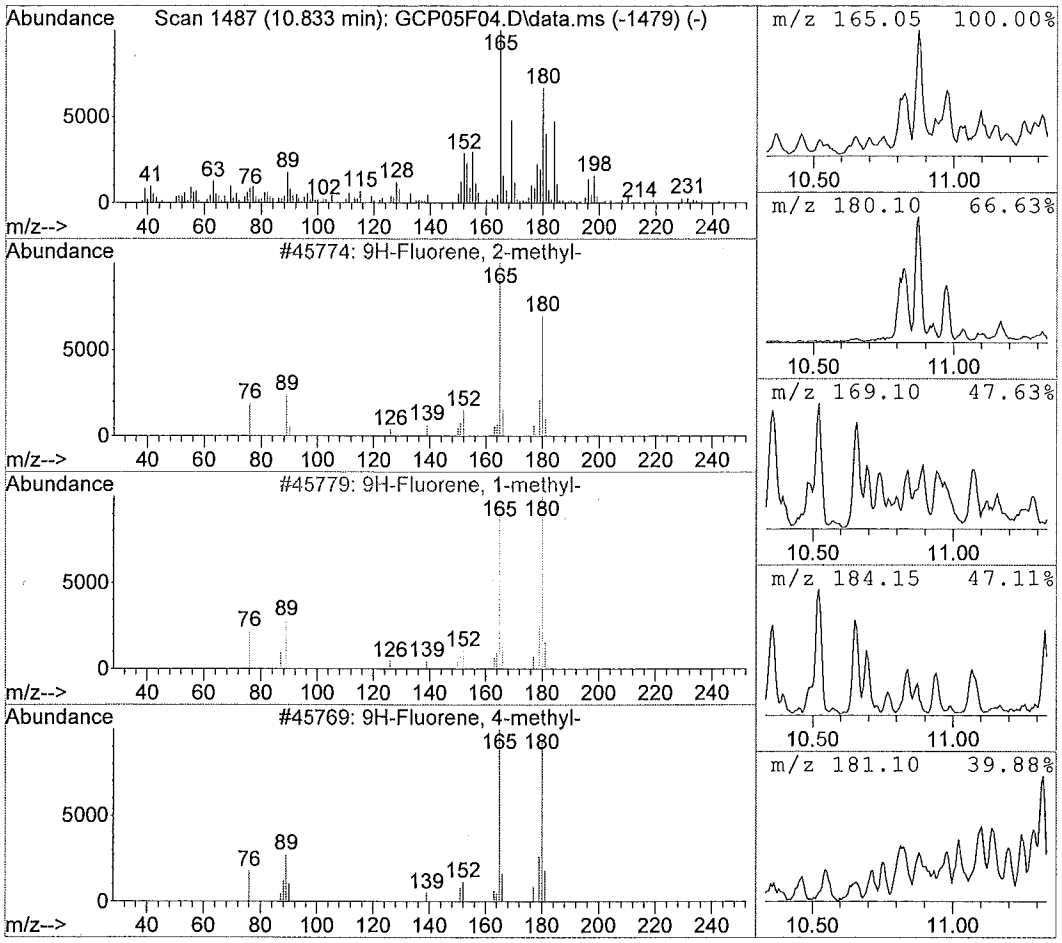
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP05F04.D Vial: 4
Acq On : 07/10/2015 11:27 Operator: TJM
Sample : 1515542004 F9M24 (5) 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
10.83	2.35 ug/ml	316123	Phenanthrene-d10	2691935

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9H-Fluorene, 2-methyl-	45774	001430-97-3	46.00
2	9H-Fluorene, 1-methyl-	45779	001730-37-6	46.00
3	9H-Fluorene, 4-methyl-	45769	001556-99-6	46.00
4	9H-Fluorene, 9-methyl-	45776	002523-37-7	41.00
5	9H-Fluorene, 3-methyl-	45770	002523-39-9	38.00



Library Search Compound Report

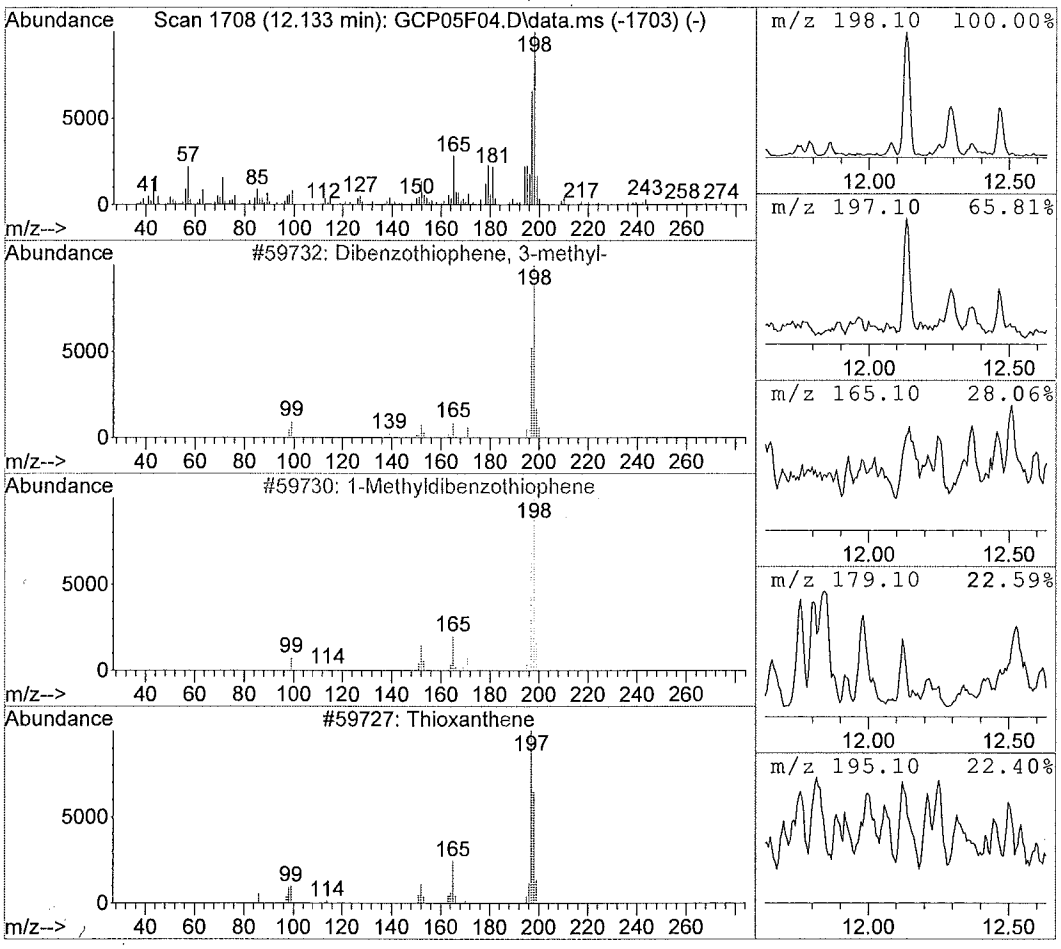
Data File : R:\G\2015\JUL15\10JUL15\GCP05F04.D
Acq On : 07/10/2015 11:27
Sample : 1515542004 F9M24 (5)
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 4
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	2.65 ug/ml	356611	Phenanthrene-d10	2691935

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dibenzothiophene, 3-methyl-	59732	016587-52-3	53.00
2	1-Methyldibenzothiophene	59730	031317-07-4	53.00
3	Thioxanthene	59727	000261-31-4	50.00
4	Benzenamine, 4,4'-methylenebis-	59743	000101-77-9	49.00
5	Dibenzothiophene, 4-methyl-	59733	007372-88-5	49.00



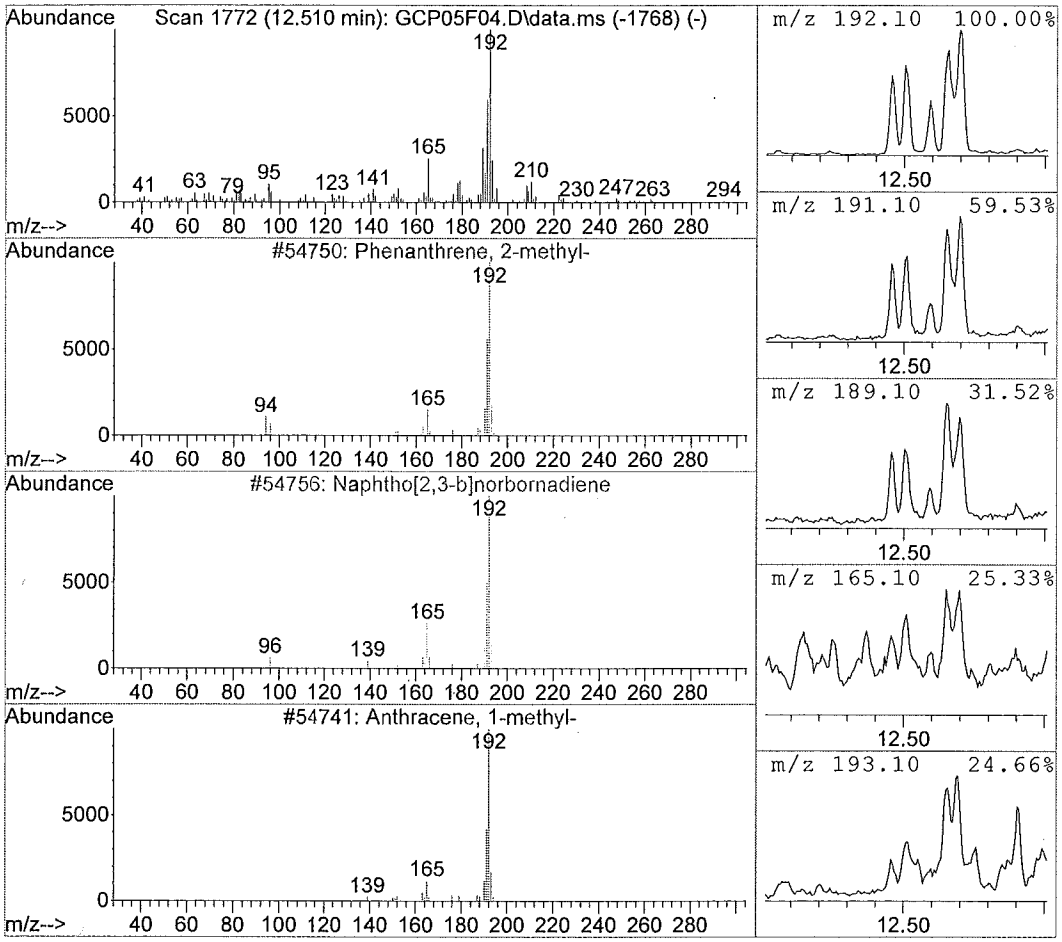
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP05F04.D Vial: 4
Acq On : 07/10/2015 11:27 Operator: TJM
Sample : 1515542004 F9M24 (5) 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
12.51	4.52 ug/ml	608348	Phenanthrene-d10	2691935

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phenanthrene, 2-methyl-	54750	002531-84-2	92.00
2	Naphtho[2,3-b]norbornadiene	54756	107426-38-0	70.00
3	Anthracene, 1-methyl-	54741	000610-48-0	70.00
4	Anthracene, 9-methyl-	54738	000779-02-2	70.00
5	1H-Cyclopropa[l]phenanthrene,1a,9b-	54763	000949-41-7	64.00



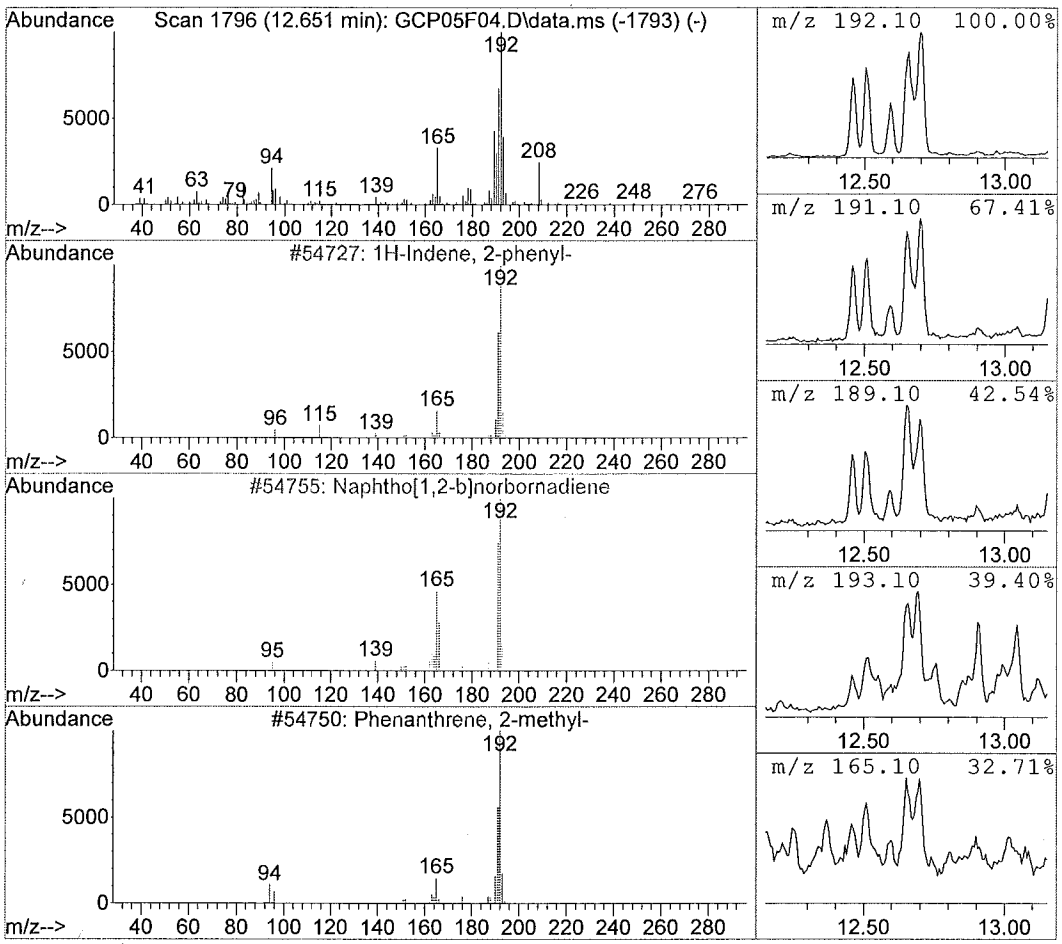
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP05F04.D Vial: 4
Acq On : 07/10/2015 11:27 Operator: TJM
Sample : 1515542004 F9M24 (5) 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	2.93 ug/ml	394435	Phenanthrene-d10	2691935

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Indene, 2-phenyl-	54727	004505-48-0	55.00
2	Naphtho[1,2-b]norbornadiene	54755	1000210-14-8	55.00
3	Phenanthrene, 2-methyl-	54750	002531-84-2	55.00
4	1H-Cyclopropa[l]phenanthrene,1a,9b-	54763	000949-41-7	55.00
5	Anthracene, 1-methyl-	54739	000610-48-0	50.00



: 00149

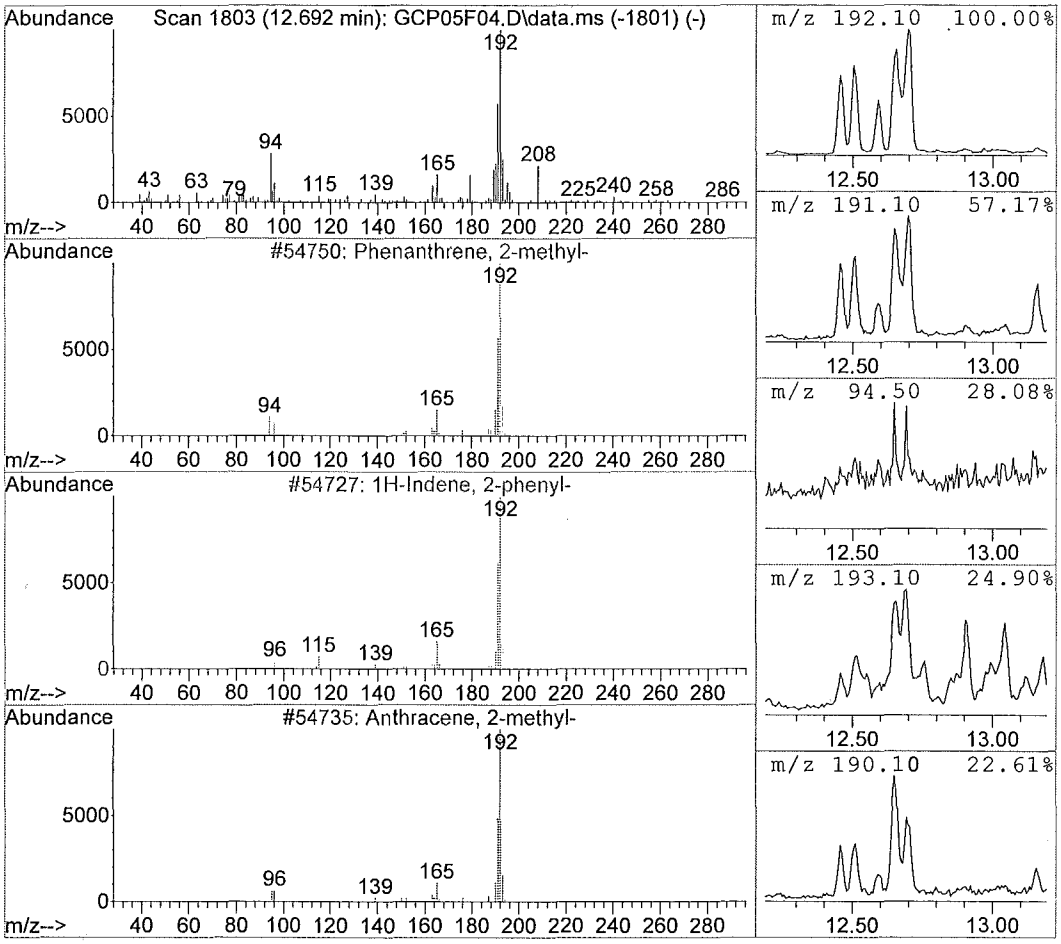
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP05F04.D Vial: 4
Acq On : 07/10/2015 11:27 Operator: TJM
Sample : 1515542004 F9M24 (5) 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
12.69	3.38 ug/ml	455304	Phenanthrene-d10	2691935

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phenanthrene, 2-methyl-	54750	002531-84-2	62.00
2	1H-Indene, 2-phenyl-	54727	004505-48-0	60.00
3	Anthracene, 2-methyl-	54735	000613-12-7	60.00
4	1H-Indene, 1-phenyl-	54728	001961-96-2	55.00
5	Anthracene, 1-methyl-	54739	000610-48-0	55.00



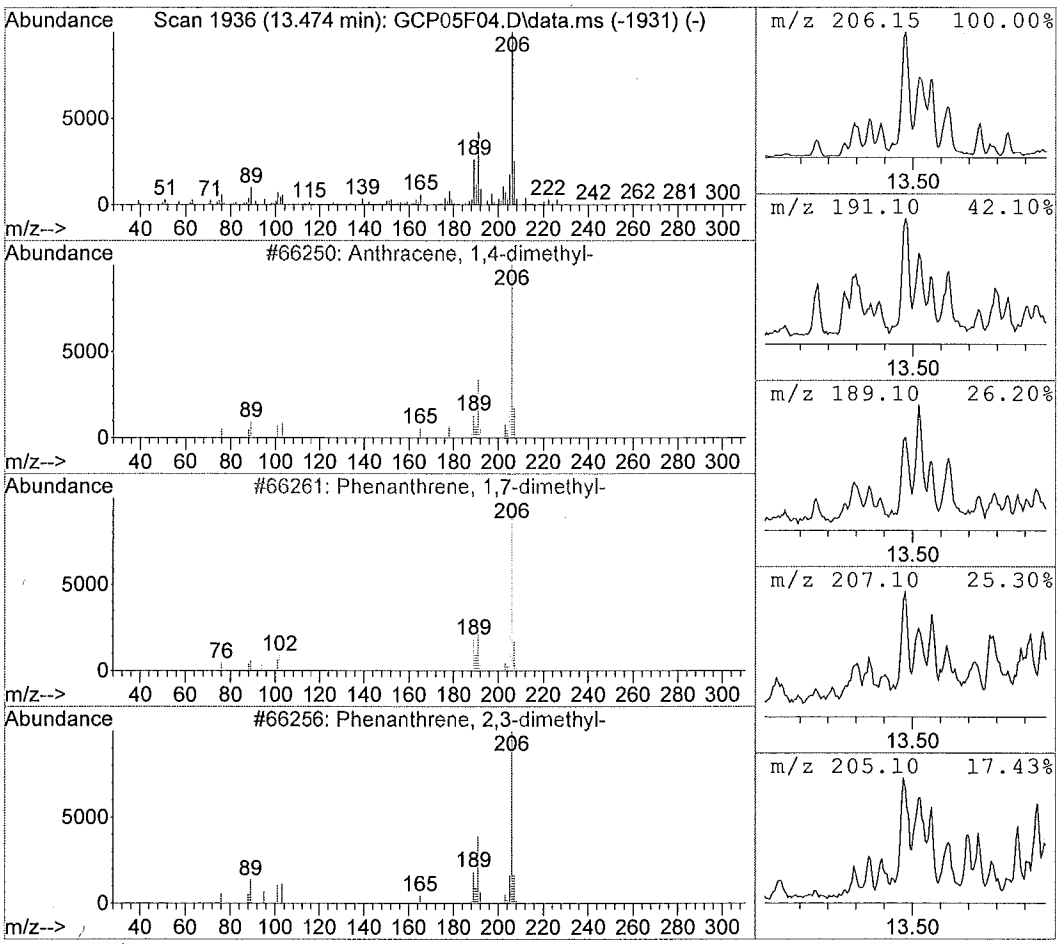
Data File : R:\G\2015\JUL15\10JUL15\GCP05F04.D
Acq On : 07/10/2015 11:27
Sample : 1515542004 F9M24 (5)
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 4
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
13.47	4.48 ug/ml	603128	Phenanthrene-d10	2691935

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Anthracene, 1,4-dimethyl-	66250	000781-92-0	90.00
2	Phenanthrene, 1,7-dimethyl-	66261	000483-87-4	89.00
3	Phenanthrene, 2,3-dimethyl-	66256	003674-65-5	87.00
4	Phenanthrene, 3,6-dimethyl-	66267	001576-67-6	87.00
5	Phenanthrene, 2,5-dimethyl-	66257	003674-66-6	81.00



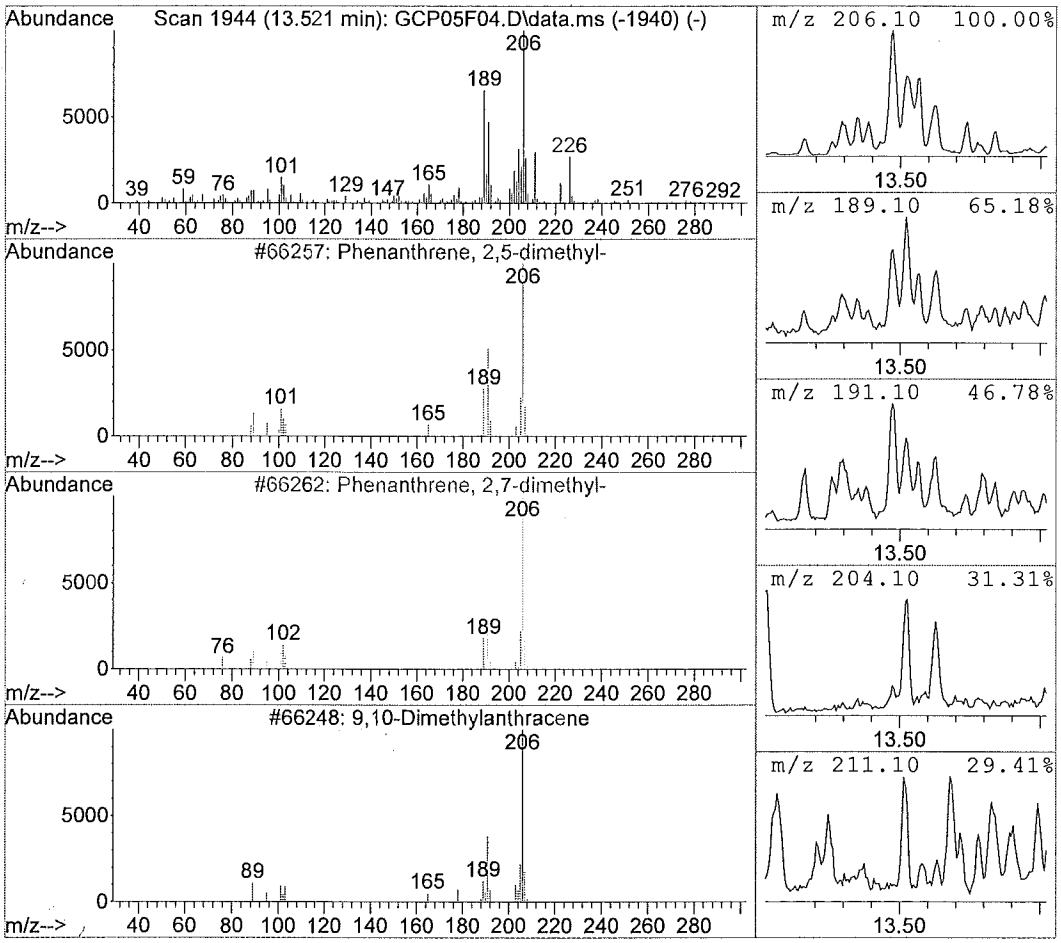
Data File : R:\G\2015\JUL15\10JUL15\GCP05F04.D
Acq On : 07/10/2015 11:27
Sample : 1515542004 F9M24 (5)
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 4
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
13.52	4.60 ug/ml	618555	Phenanthrene-d10	2691935

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	66257	003674-66-6	83.00
2	Phenanthrene, 2,7-dimethyl-	66262	001576-69-8	64.00
3	9,10-Dimethylanthracene	66248	000781-43-1	60.00
4	Anthracene, 1,4-dimethyl-	66250	000781-92-0	60.00
5	Phenanthrene, 3,6-dimethyl-	66259	001576-67-6	58.00



Library Search Compound Report

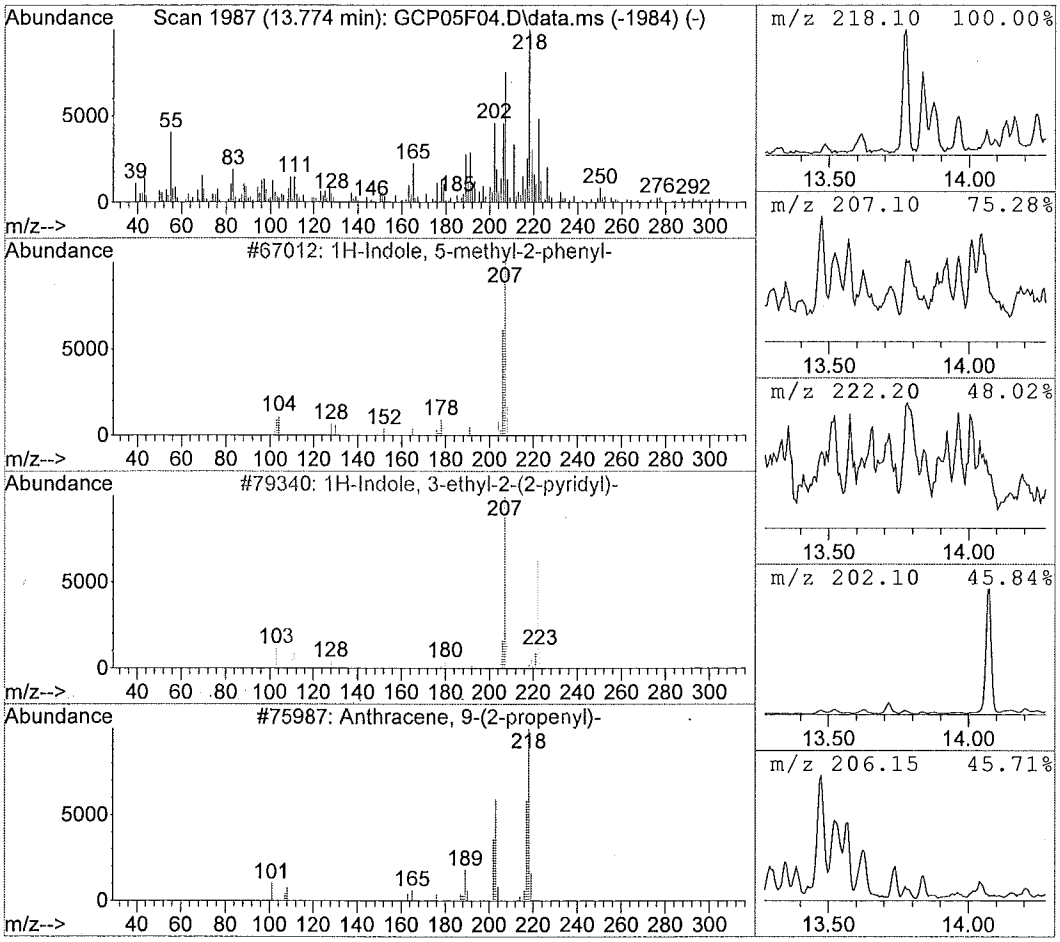
Data File : R:\G\2015\JUL15\10JUL15\GCP05F04.D
Acq On : 07/10/2015 11:27
Sample : 1515542004 F9M24 (5)
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 4
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
13.77	2.12 ug/ml	363054	Chrysene-d12	3419783

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Indole, 5-methyl-2-phenyl-	67012	013228-36-9	35.00
2	1H-Indole, 3-ethyl-2-(2-pyridyl)-	79340	093732-43-5	25.00
3	Anthracene, 9-(2-propenyl)-	75987	023707-65-5	25.00
4	Benzo[b]naphtho[2,3-d]furan	75958	000243-42-5	25.00
5	1,4-Methanonaphthalene, 1,4-dihydro	75996	055028-73-4	22.00



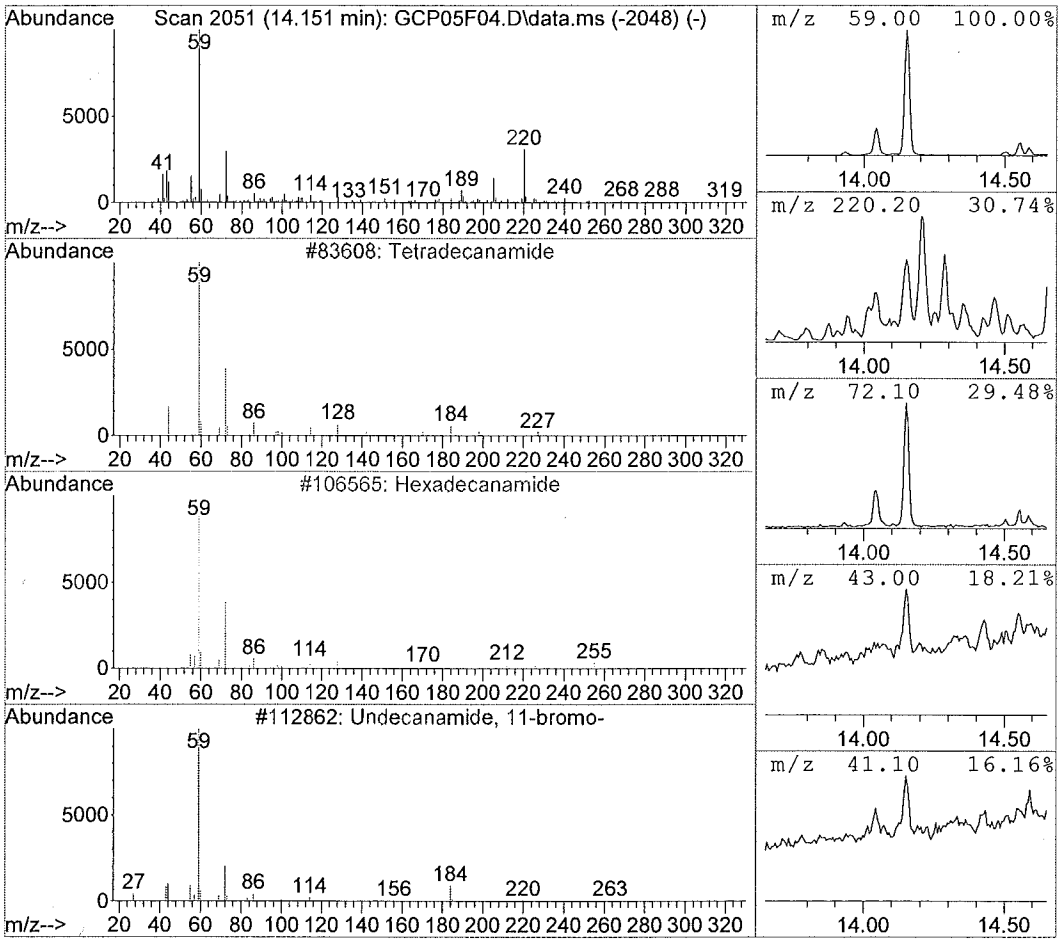
Data File : R:\G\2015\JUL15\10JUL15\GCP05F04.D
Acq On : 07/10/2015 11:27
Sample : 1515542004 F9M24 (5)
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 4
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	3.04 ug/ml	520212	Chrysene-d12	3419783

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83608	000638-58-4	53.00
2	Hexadecanamide	106565	000629-54-9	53.00
3	Undecanamide, 11-bromo-	112862	005875-26-3	47.00
4	Dodecanamide	60440	001120-16-7	42.00
5	Ethanol, 2-ethoxy-	2300	000110-80-5	40.00

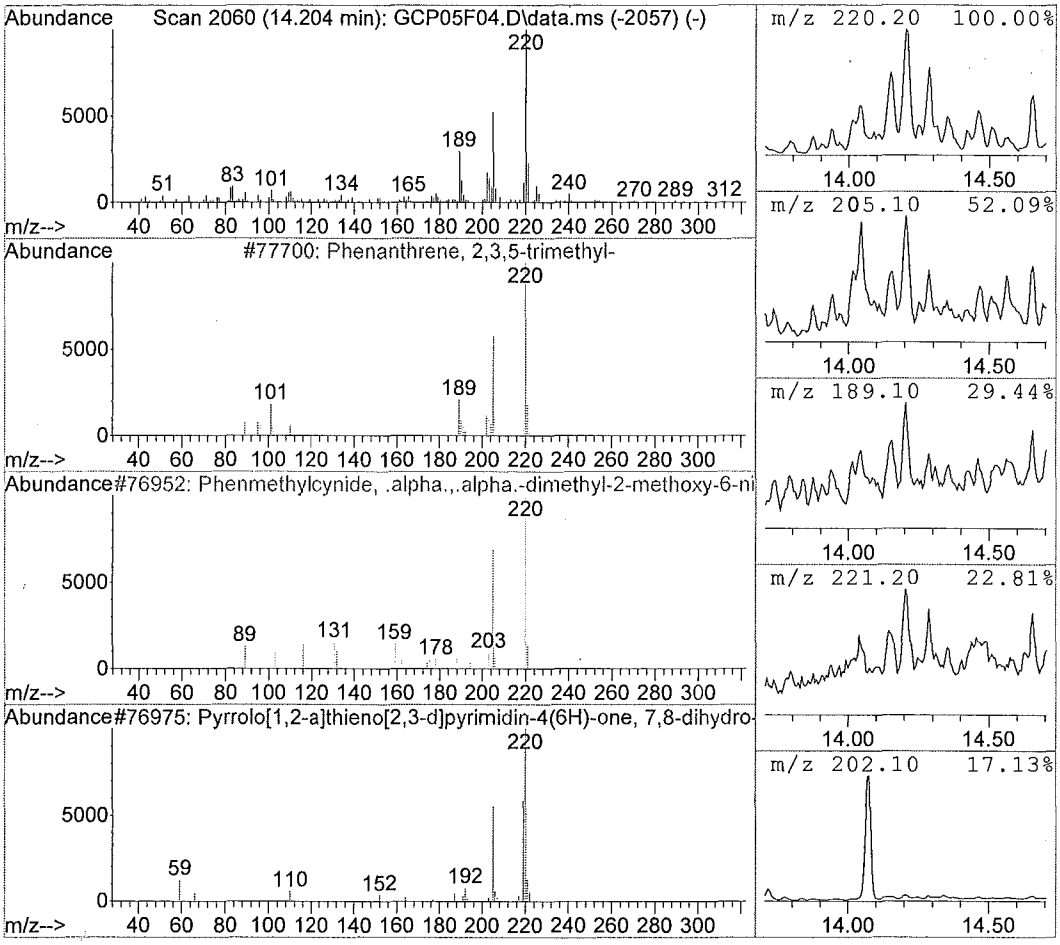


Data File : R:\G\2015\JUL15\10JUL15\GCP05F04.D Vial: 4
Acq On : 07/10/2015 11:27 Operator: TJM
Sample : 1515542004 F9M24 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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
14.20	2.01 ug/ml	343718	Chrysene-d12	3419783

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phenanthrene, 2,3,5-trimethyl-	77700	003674-73-5	90.00
2	Phenmethylcynide, .alpha.,.alpha.-d	76952	1000128-94-6	53.00
3	Pyrrolo[1,2-a]thieno[2,3-d]pyrimidi	76975	056929-61-4	52.00
4	7-Nitro-6-methoxy-2,3-dimethylindol	76927	068289-71-4	50.00
5	Isoquinoline, 1,2,3,4-tetrahydro-1-	111624	180461-39-6	43.00



00155

Library Search Compound Report

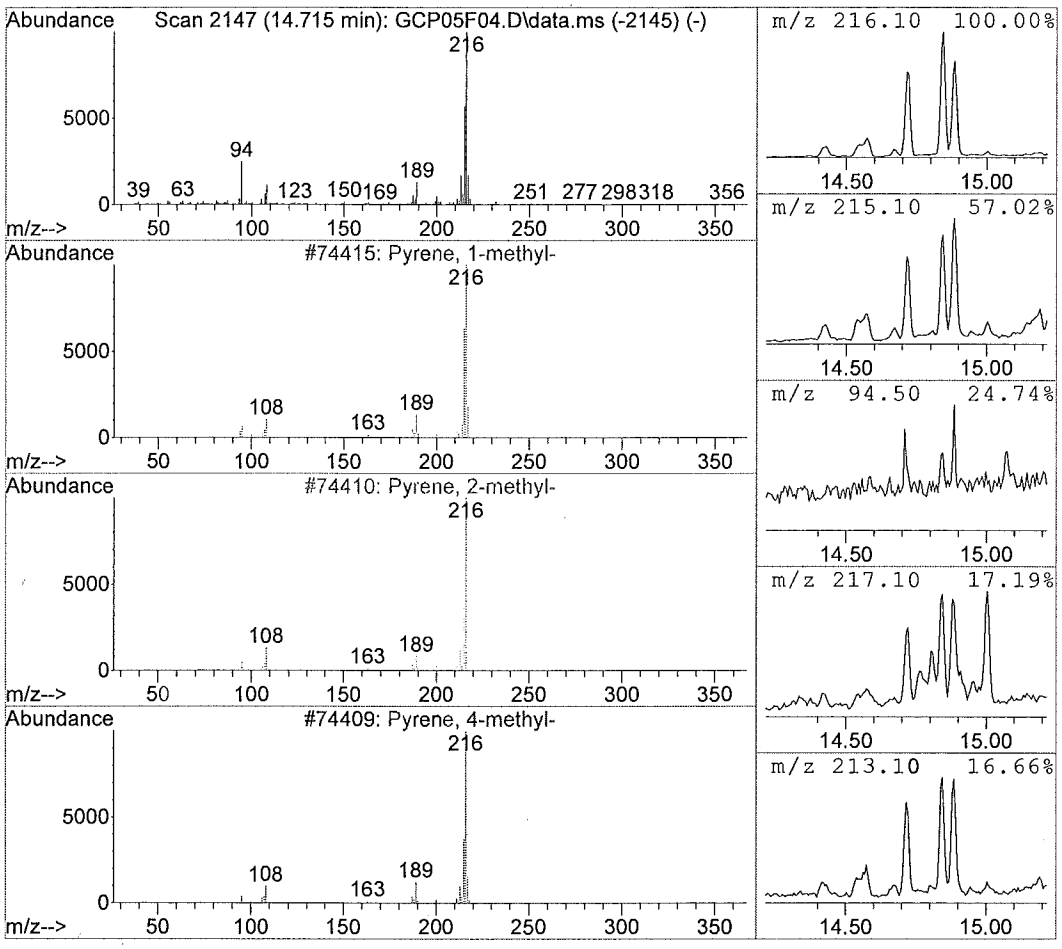
Data File : R:\G\2015\JUL15\10JUL15\GCP05F04.D
Acq On : 07/10/2015 11:27
Sample : 1515542004 F9M24 (5)
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 4
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
14.72	2.29 ug/ml	390746	Chrysene-d12	3419783

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pyrene, 1-methyl-	74415	002381-21-7	95.00
2	Pyrene, 2-methyl-	74410	003442-78-2	95.00
3	Pyrene, 4-methyl-	74409	003353-12-6	94.00
4	Fluoranthene, 2-methyl-	74425	033543-31-6	93.00
5	11H-Benzo[a]fluorene	74419	000238-84-6	87.00

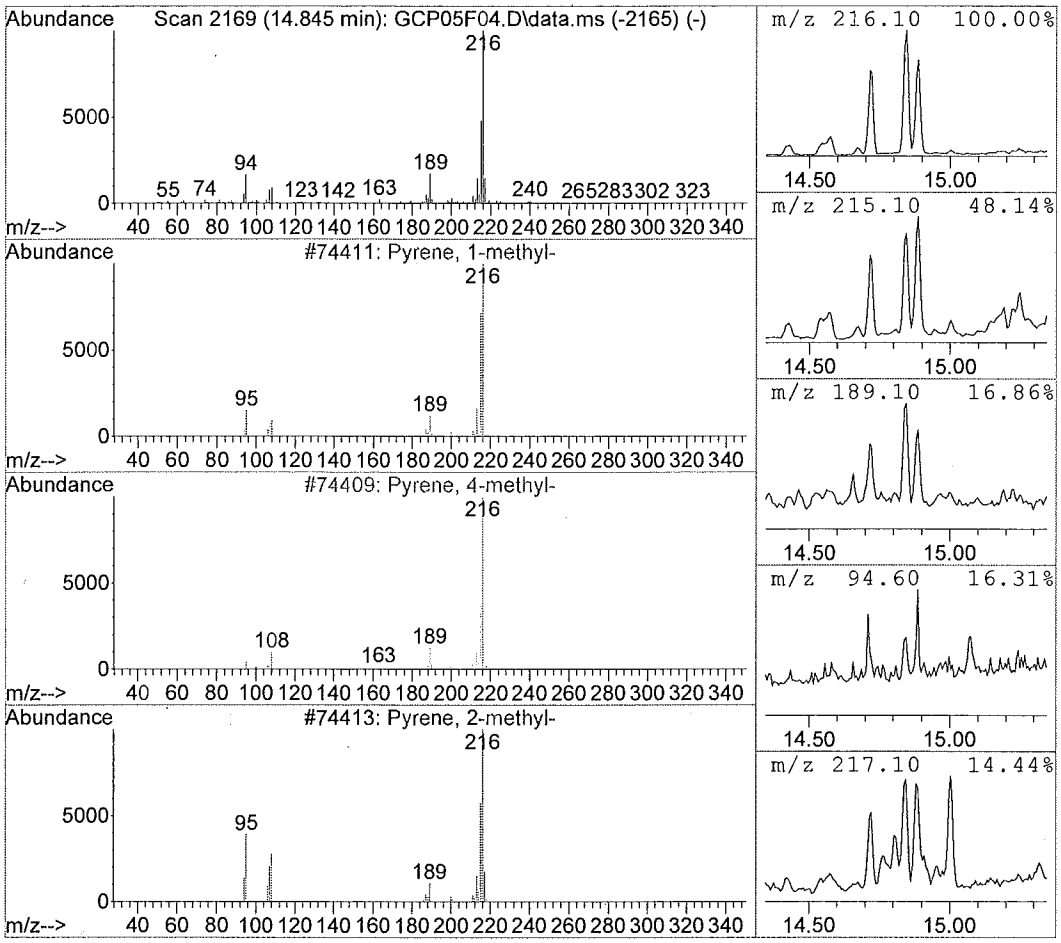


Data File : R:\G\2015\JUL15\10JUL15\GCP05F04.D Vial: 4
Acq On : 07/10/2015 11:27 Operator: TJM
Sample : 1515542004 F9M24 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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
14.84	3.75 ug/ml	641251	Chrysene-d12	3419783

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pyrene, 1-methyl-	74411	002381-21-7	97.00
2	Pyrene, 4-methyl-	74409	003353-12-6	95.00
3	Pyrene, 2-methyl-	74413	003442-78-2	94.00
4	11H-Benzo[a]fluorene	74419	000238-84-6	87.00
5	Fluoranthene, 2-methyl-	74425	033543-31-6	74.00

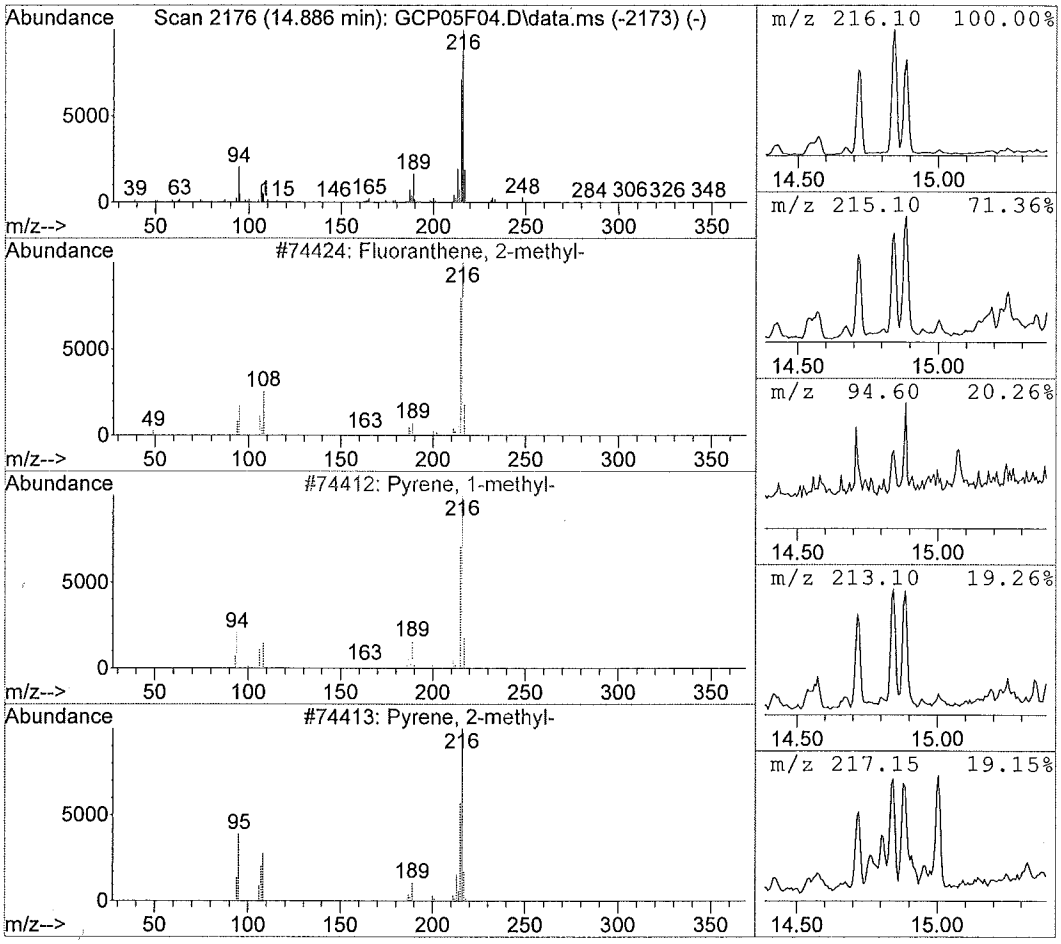


Data File : R:\G\2015\JUL15\10JUL15\GCP05F04.D Vial: 4
Acq On : 07/10/2015 11:27 Operator: TJM
Sample : 1515542004 F9M24 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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
14.89	2.82 ug/ml	482936	Chrysene-d12	3419783

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Fluoranthene, 2-methyl-	74424	033543-31-6	93.00
2	Pyrene, 1-methyl-	74412	002381-21-7	93.00
3	Pyrene, 2-methyl-	74413	003442-78-2	91.00
4	11H-Benzo[a]fluorene	74419	000238-84-6	86.00
5	11H-Benzo[b]fluorene	74418	000243-17-4	80.00



Library Search Compound Report

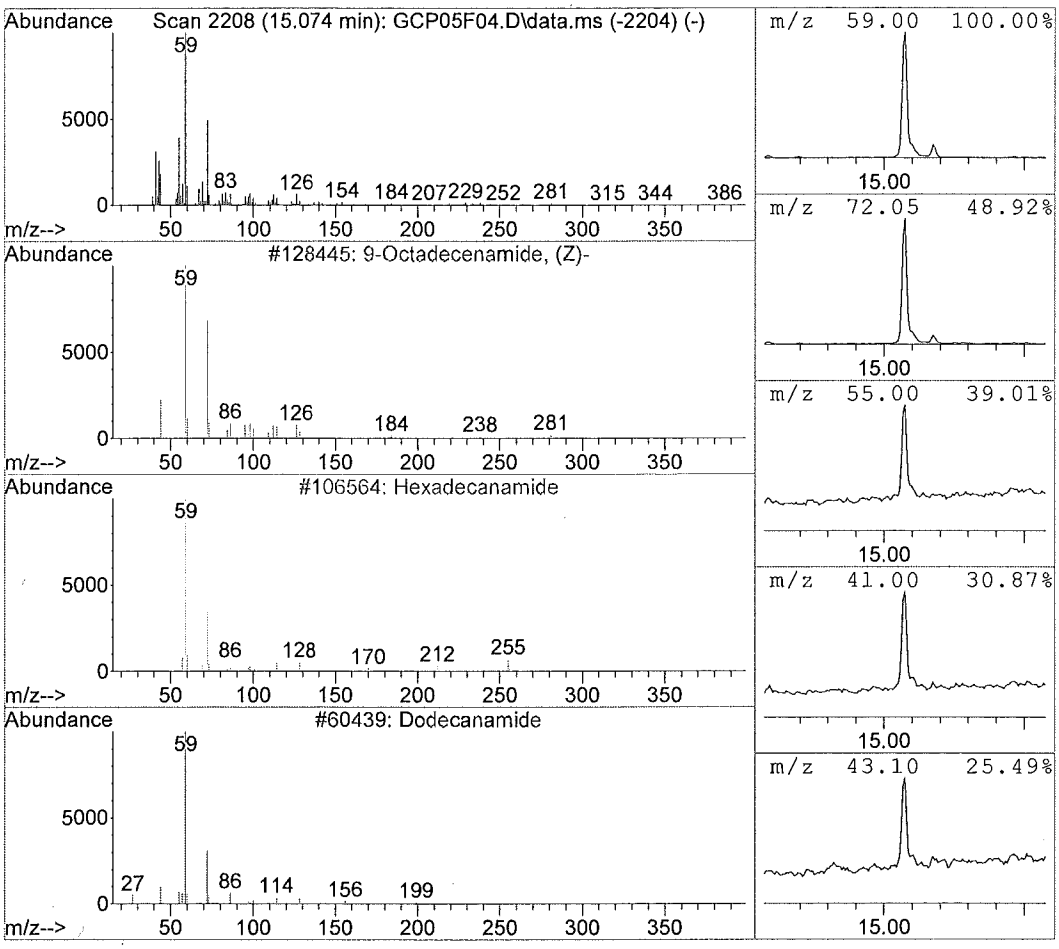
Data File : R:\G\2015\JUL15\10JUL15\GCP05F04.D
Acq On : 07/10/2015 11:27
Sample : 1515542004 F9M24 (5)
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 4
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	10.15 ug/ml	1736098	Chrysene-d12	3419783

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	96.00
2	Hexadecanamide	106564	000629-54-9	64.00
3	Dodecanamide	60439	001120-16-7	59.00
4	Octanamide	20317	000629-01-6	56.00
5	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	50.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M25

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GCP06F05

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

% Moisture: 24. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	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	430	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	430	U
83-32-9	Acenaphthene	220	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M25

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GCP06F05

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

% Moisture: 24. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	430	U
100-02-7	4-Nitrophenol	430	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	430	U
534-52-1	4,6-Dinitro-2-methylphenol	430	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	430	U
85-01-8	Phenanthrene	23.	J
120-12-7	Anthracene	220	U
86-74-8	Carbazole	220	U
84-74-2	Di-n-butylphthalate	220	U
206-44-0	Fluoranthene	22.	J
129-00-0	Pyrene	67.	J
85-68-7	Butylbenzylphthalate	220	U
91-94-1	3,3'-Dichlorobenzidine	220	U
56-55-3	Benzo(a)anthracene	20.	J
218-01-9	Chrysene	37.	J
117-81-7	Bis(2-ethylhexyl)phthalate	220	U
117-84-0	Di-n-octylphthalate	220	U
205-99-2	Benzo(b)fluoranthene	27.	J
207-08-9	Benzo(k)fluoranthene	220	U
50-32-8	Benzo(a)pyrene	18.	J
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.

F9M25

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GCP06F05

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

% Moisture: 24. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 1.0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	814-78-8	3-Buten-2-one, 3-methyl-	2.19	160	JN
02		Unknown 2-Propanone, 1-chloro-	2.28	180	J
03		Unknown 1,2-Ethanediol	2.35	160	J
04		Unknown 2-Pentanone, 4-hydroxy-	3.30	620	JB
05		Unknown Guanidine	3.52	15000	J
06		Unknown TATP	4.07	270	J
07		Unknown Oxalic acid, diisohexyl ester	4.19	240	J
08		Unknown 1H-Pyrrole-2,5-dione	4.28	1200	J
09		Unknown Pyrrolidine, 3-methyl-	4.72	170	J
10		Unknown .beta.-Acetylacrylic acid	5.00	270	J
11	57-10-3	n-Hexadecanoic acid	12.66	400	JN
12		Unknown Dodecanamide	12.77	170	J
13		Unknown 2-Furaldehyde azine	13.00	120	J
14	638-58-4	Tetradecanamide	14.16	510	JN
15	301-02-0	9-Octadecenamide, (Z)-	15.08	2700	JNB
16	629-54-9	Hexadecanamide	15.18	130	JN
17	90949-53-4	7-Nonenamide	15.87	170	JN
18	301-02-0	9-Octadecenamide, (Z)-	16.99	1800	JN
19	7683-64-9	Supraene	17.16	500	JN
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	5300	J

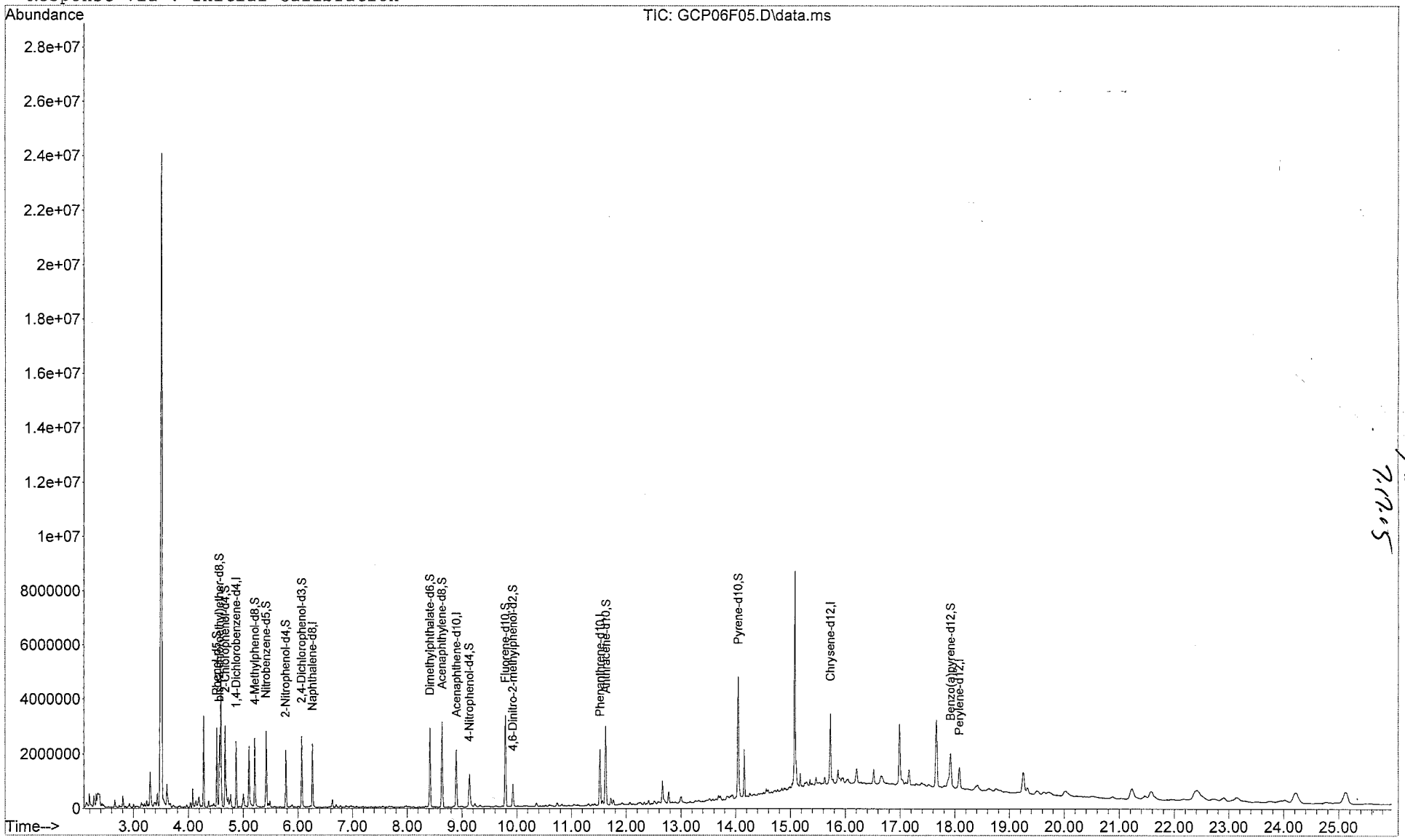
[2] EPA-designated Registry Number.

Quantitation Report

Data File : R:\G\2015\JUL15\10JUL15\GCP06F05.D Vial: 5
Acq On : 07/10/2015 12:01 Operator: TJM
Sample : 1515542005 F9M25 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jul 17 08:44:44 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\10JUL15\GCP06F05.D Vial: 5
Acq On : 07/10/2015 12:01 Operator: TJM
Sample : 1515542005 F9M25 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 17 08:44:44 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	310883	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1141547	20.00 ug/ml
33) Acenaphthene-d10	8.90	164	671462	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1130258	20.00 ug/ml
73) Chrysene-d12	15.73	240	1049247	20.00 ug/ml
81) Perylene-d12	18.08	264	539021	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.52	99	840905	31.083ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	617458	29.287ug/mL
7) 2-Chlorophenol-d4	4.67	132	720825	31.557ug/ml
13) 4-Methylphenol-d8	5.21	113	516408	28.539ug/mL
17) Nitrobenzene-d5	5.42	128	318620	31.772ug/ml
21) 2-Nitrophenol-d4	5.78	143	344379	32.489ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	531473	32.200ug/mL
28) 4-Chloroaniline-d4	6.35	131	1702	0.094ug/mL
42) Dimethylphthalate-d6	8.42	166	1425270	33.850ug/mL
45) Acenaphthylene-d8	8.63	160	1791365	31.307ug/mL
50) 4-Nitrophenol-d4	9.13	143	263832	30.715ug/mL
57) Fluorene-d10	9.79	176	1225265	34.075ug/mL
61) 4,6-Dinitro-2-methylphenol	9.93	200	132811	16.555ug/mL
69) Anthracene-d10	11.63	188	1766300	29.469ug/mL
75) Pyrene-d10	14.04	212	1837520	35.092ug/mL
86) Benzo(a)pyrene-d12	17.92	264	752179	29.122ug/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	5.10	45	~~69742~~	~~1.180ug/ml~~ ~~100~~ 7/17/15
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\10JUL15\GCP06F05.D Vial: 5
Acq On : 07/10/2015 12:01 Operator: TJM
Sample : 1515542005 F9M25 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 17 08:44:44 2015 Results File: GSOM01D6.RES

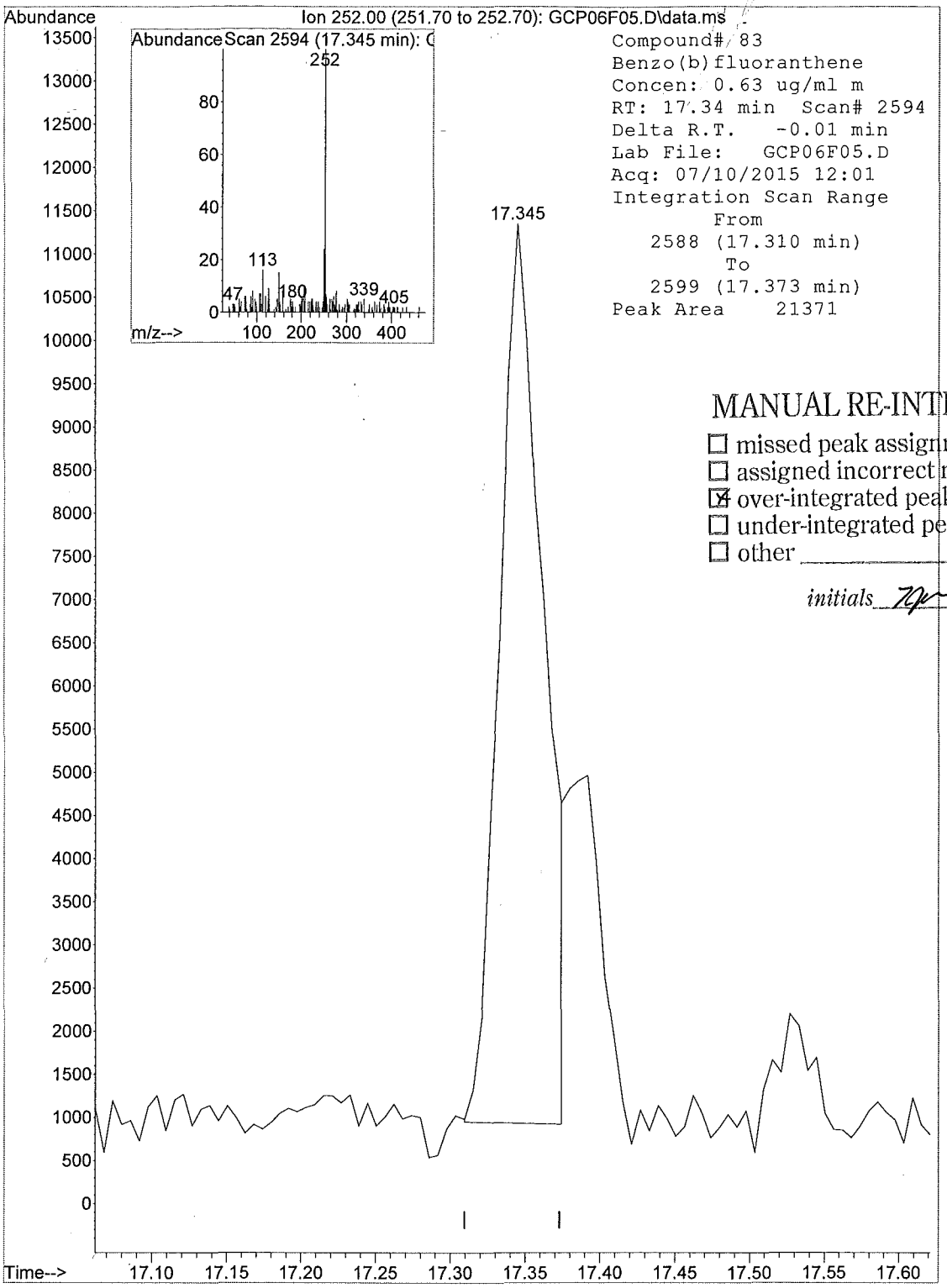
Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration

	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	11.56	178	32530	0.540ug/ml	91
68)	Anthracene	0.00	178		Not Detected	
70)	Carbazole	0.00	167		Not Detected	
71)	Di-n-butylphthalate	0.00	149		Not Detected	
72)	Fluoranthene	13.72	202	33971	0.511ug/ml	92
74)	Pyrene	14.07	202	103654	1.552ug/ml	56
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	15.72	228	29879	0.469ug/ml	56
79)	Chrysene	15.76	228	49114	0.854ug/ml	92
80)	Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	17.34	252	21371	0.633ug/ml m	91
84)	Benzo(k)fluoranthene	0.00	252		Not Detected	
85)	Benzo(a)pyrene	17.96	252	13579	0.427ug/ml	71
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	

7.17.15

(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(b)fluoranthene

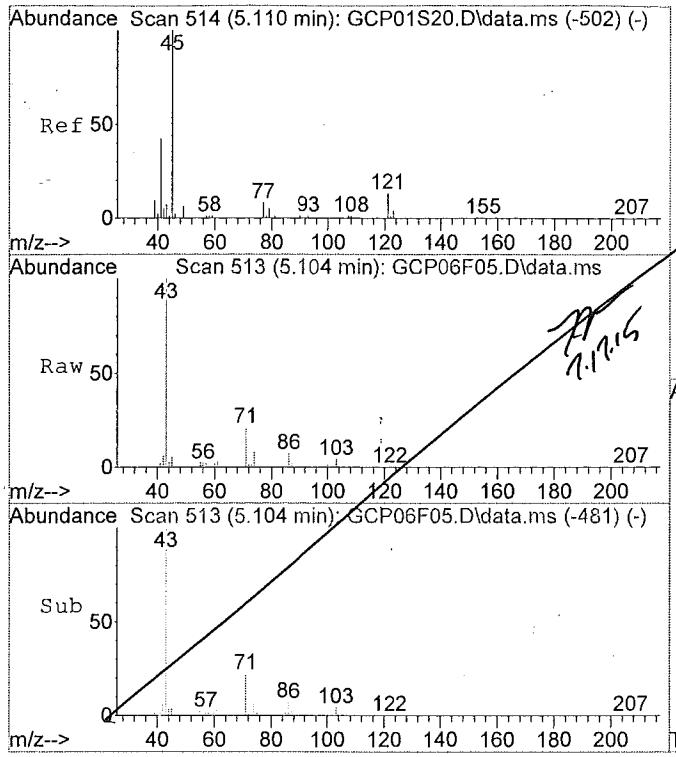


MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☒ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials ZJ *date* 7.17.15

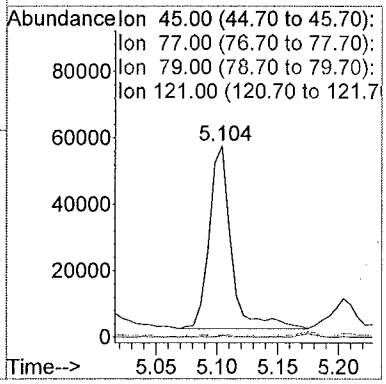
GSOM01D6.M 5975-G GSOM01D6.M 1515542005 F9M25 . SOIL SOM

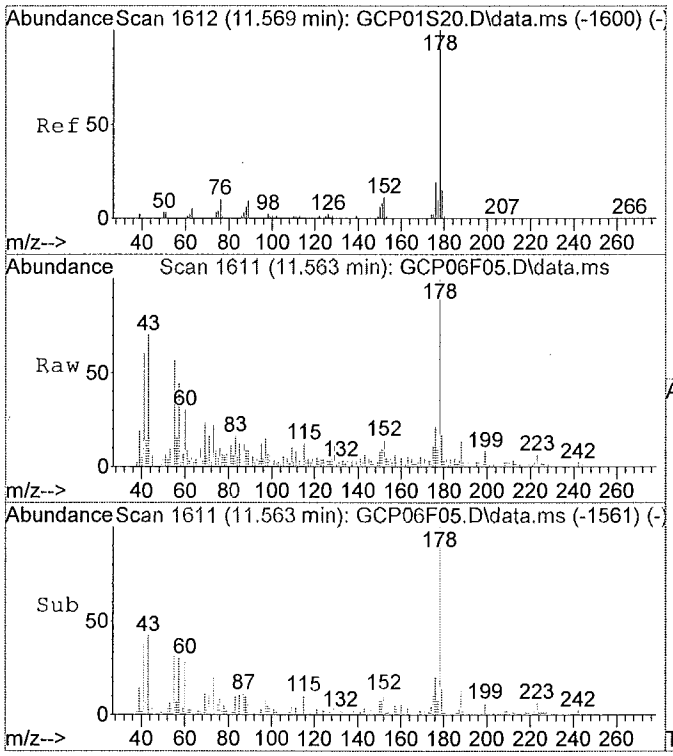


#10
2,2'-Oxybis-(1-chloropropane)
Concen: 1.18 ug/ml
RT: 5.10 min Scan# 513
Delta R.T. -0.01 min
Lab File: GCP06F05.D
Acq: 07/10/2015 12:01

Tgt Ion:45 Resp: 69742

Ion	Ratio	Lower	Upper
45	100		
77	0.3	0.0	0.0#
79	0.4	0.0	0.0#
121	0.4	0.0	0.0#

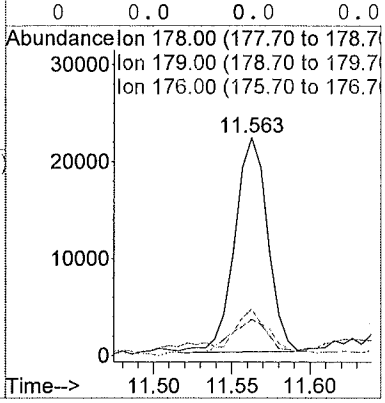


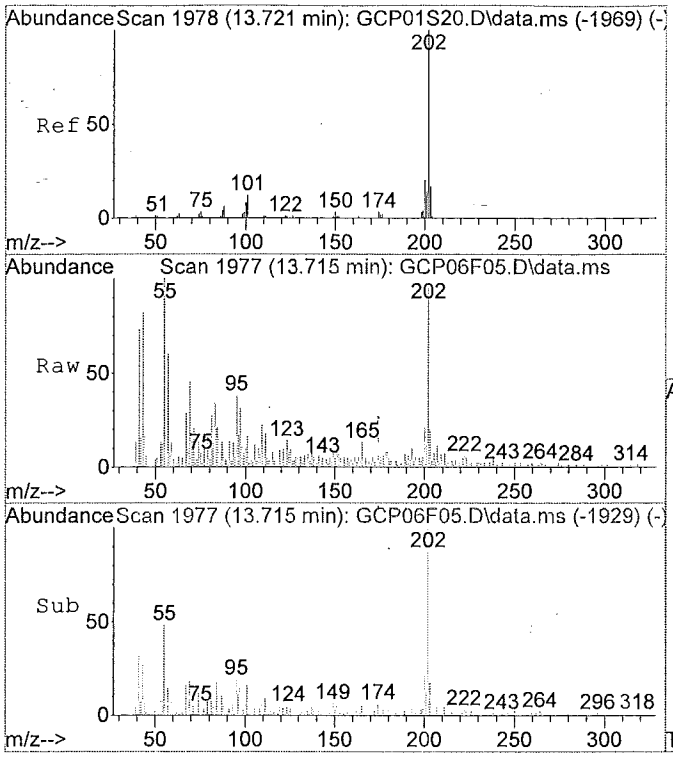


#67
Phenanthrene
Concen: 0.54 ug/ml
RT: 11.56 min Scan# 1611
Delta R.T. -0.01 min
Lab File: GCP06F05.D
Acq: 07/10/2015 12:01

Tgt Ion:178 Resp: 32530

Ion	Ratio	Lower	Upper
178	100		
179	20.5	10.6	19.8#
176	21.7	13.2	24.4
0	0.0	0.0	0.0

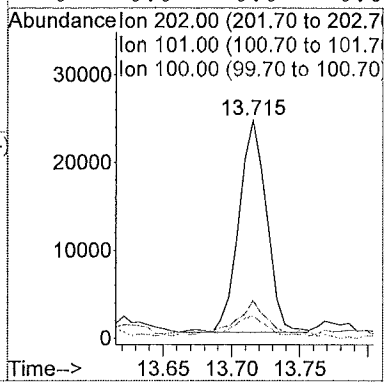


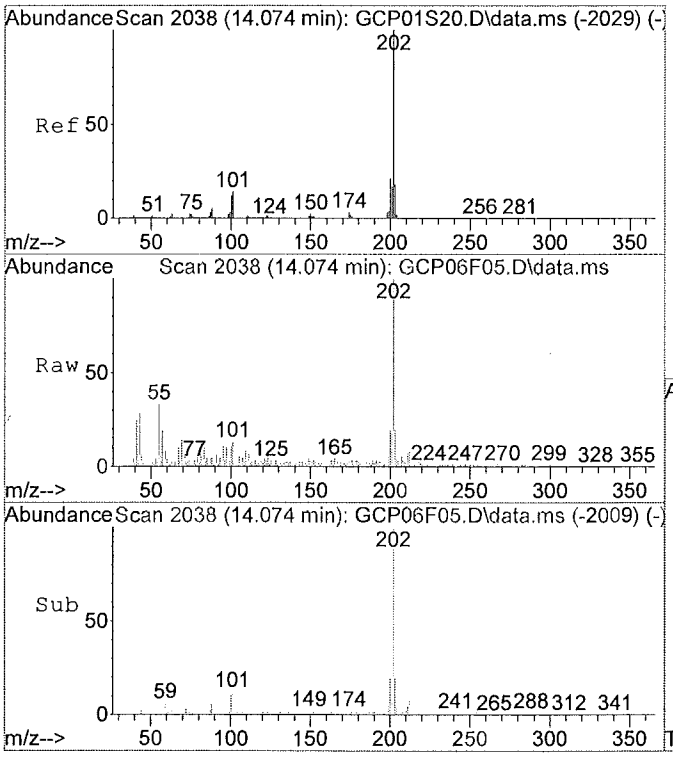


#72
Fluoranthene
Concen: 0.51 ug/ml
RT: 13.72 min Scan# 1977
Delta R.T. -0.01 min
Lab File: GCP06F05.D
Acq: 07/10/2015 12:01

Tgt Ion:202 Resp: 33971

Ion	Ratio	Lower	Upper
202	100		
101	19.2	10.5	19.5
100	8.8	7.4	13.8
0	0.0	0.0	0.0

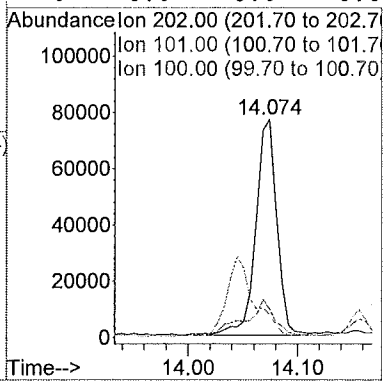


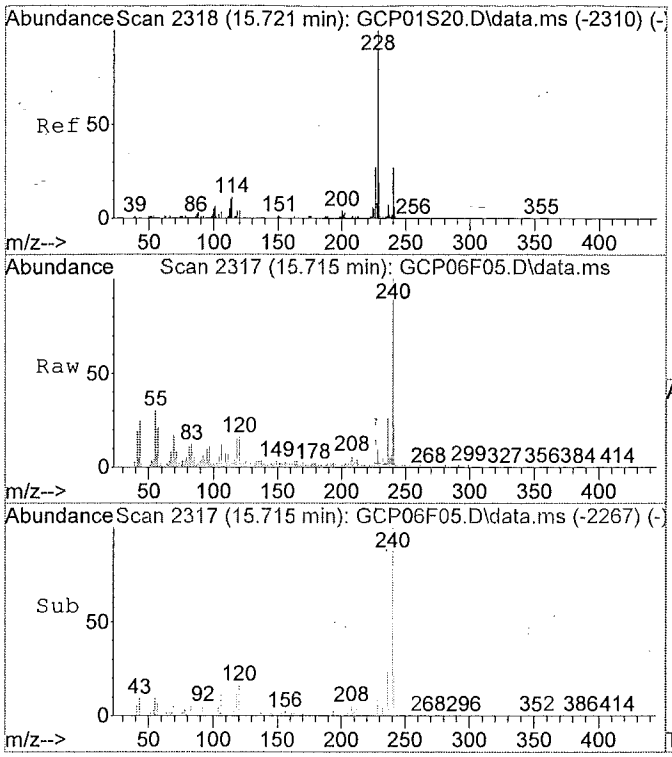


#74
Pyrene
Concen: 1.55 ug/ml
RT: 14.07 min Scan# 2038
Delta R.T. -0.00 min
Lab File: GCP06F05.D
Acq: 07/10/2015 12:01

Tgt Ion:202 Resp: 103654

Ion	Ratio	Lower	Upper
202	100		
101	23.7	12.2	22.7#
100	47.7	10.1	18.7#
0	0.0	0.0	0.0

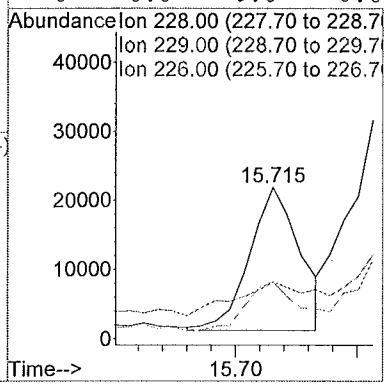


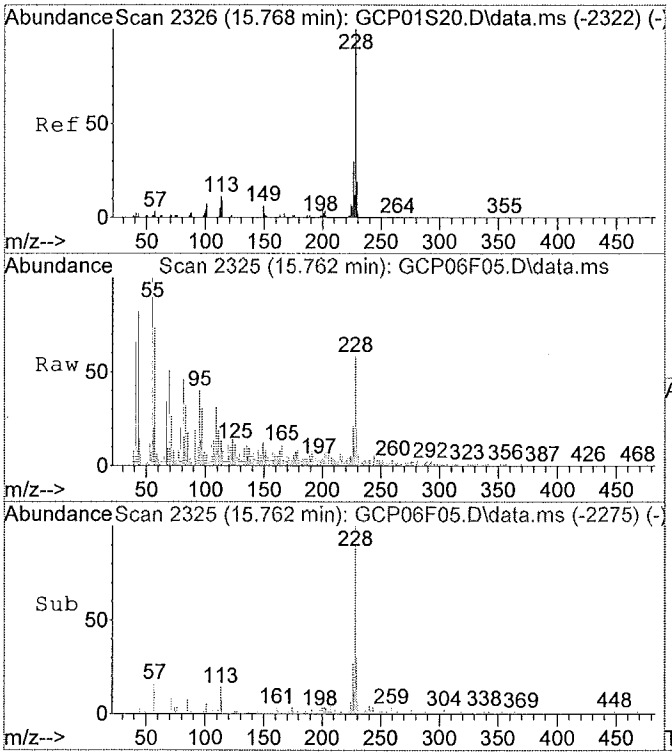


#78
Benzo(a)anthracene
Concen: 0.47 ug/ml
RT: 15.72 min Scan# 2317
Delta R.T. -0.01 min
Lab File: GCP06F05.D
Acq: 07/10/2015 12:01

Tgt Ion:228 Resp: 29879

Ion	Ratio	Lower	Upper
228	100		
229	51.0	13.7	25.5#
226	38.7	18.2	33.8#
0	0.0	0.0	0.0

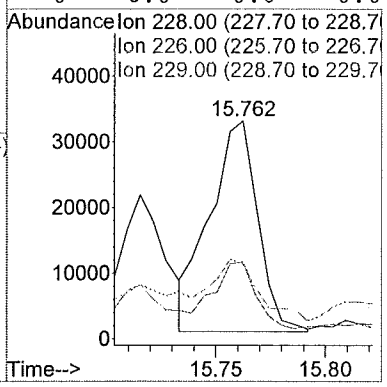


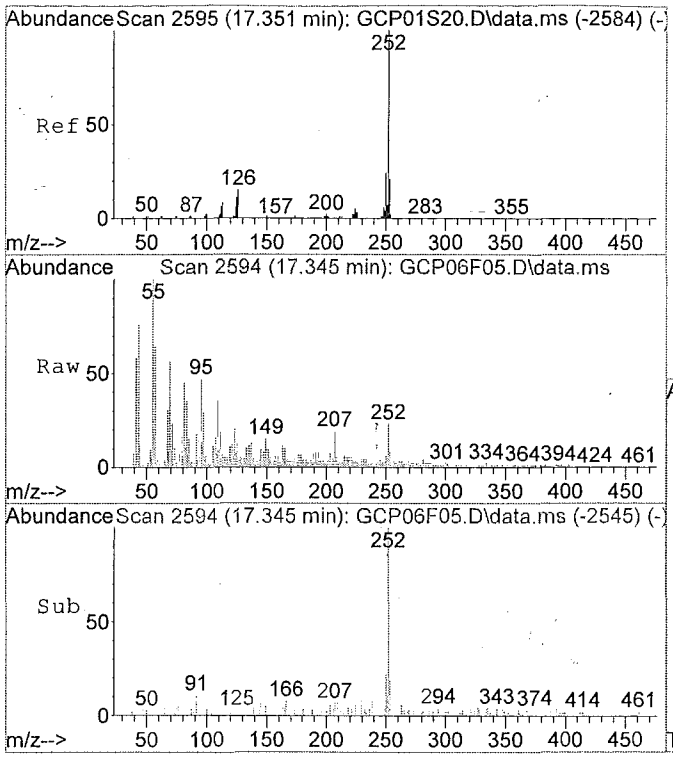


#79
Chrysene
Concen: 0.85 ug/ml
RT: 15.76 min Scan# 2325
Delta R.T. -0.01 min
Lab File: GCP06F05.D
Acq: 07/10/2015 12:01

Tgt Ion:228 Resp: 49114

Ion	Ratio	Lower	Upper
228	100		
226	29.1	20.1	37.3
229	28.3	13.7	25.5#
0	0.0	0.0	0.0

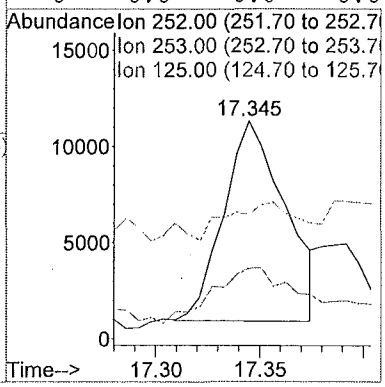


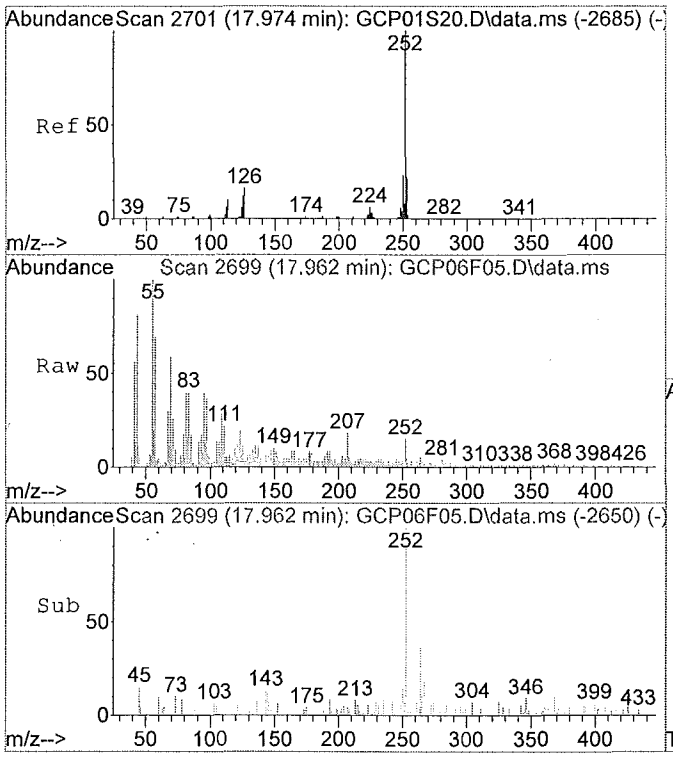


#83
Benzo(b)fluoranthene
Concen: 0.63 ug/ml m
RT: 17.34 min Scan# 2594
Delta R.T. -0.01 min
Lab File: GCP06F05.D
Acq: 07/10/2015 12:01

Tgt Ion:252 Resp: 21371

Ion	Ratio	Lower	Upper
252	100		
253	48.8	15.1	28.1#
125	24.2	10.6	19.8#
0	0.0	0.0	0.0

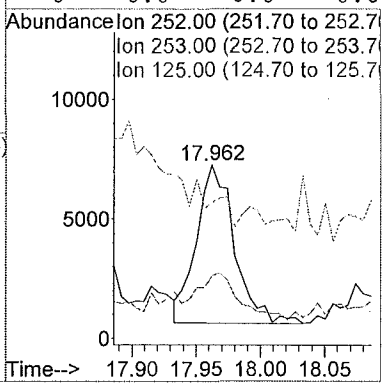




#85
Benzo(a)pyrene
Concen: 0.43 ug/ml
RT: 17.96 min Scan# 2699
Delta R.T. -0.01 min
Lab File: GCP06F05.D
Acq: 07/10/2015 12:01

Tgt Ion:252 Resp: 13579

Ion	Ratio	Lower	Upper
252	100		
253	31.7	15.2	28.2#
125	0.0	11.8	21.8#
0	0.0	0.0	0.0



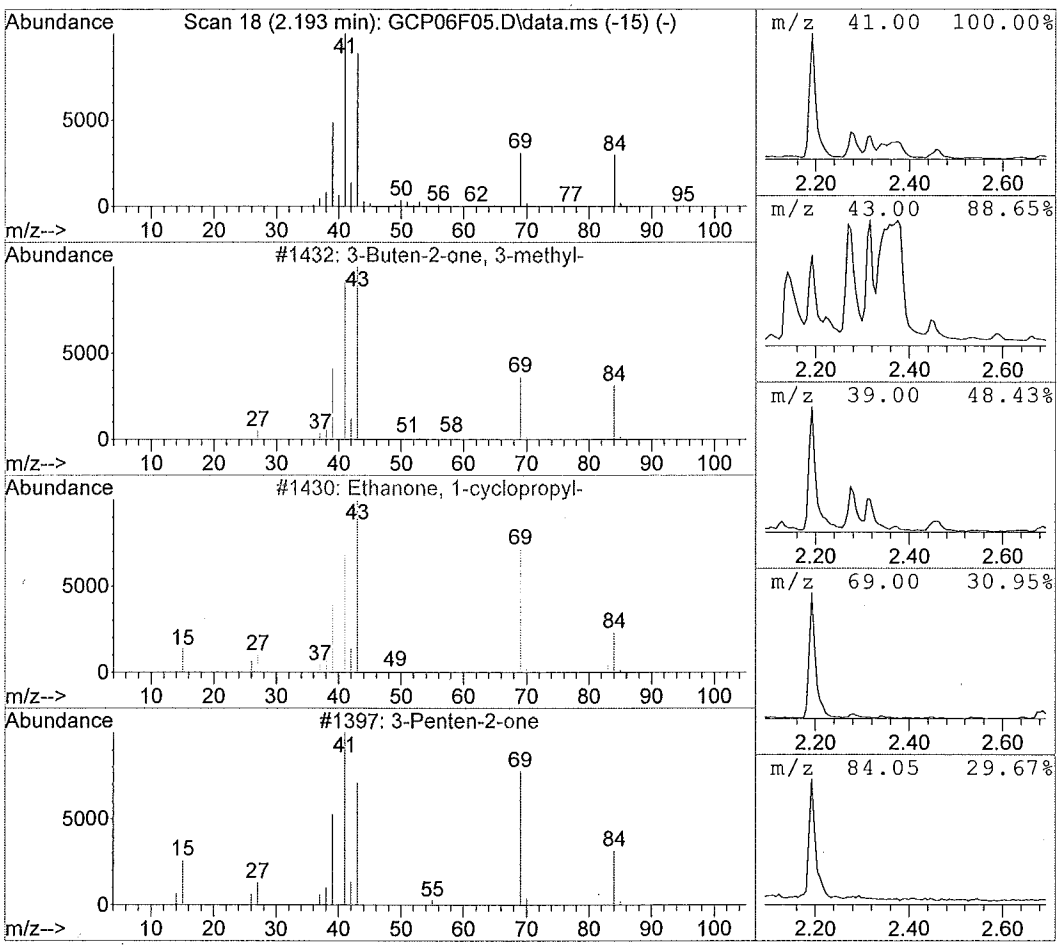
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP06F05.D Vial: 5
Acq On : 07/10/2015 12:01 Operator: TJM
Sample : 1515542005 F9M25 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
2.19	3.67 ug/ml	422887	1,4-Dichlorobenzene-d4	2305714

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	80.00
3	3-Penten-2-one	1397	000625-33-2	72.00
4	Cyclopropane, 1,1,2-trimethyl-	1520	004127-45-1	35.00
5	Dicyclopropyl carbinol	6505	014300-33-5	33.00



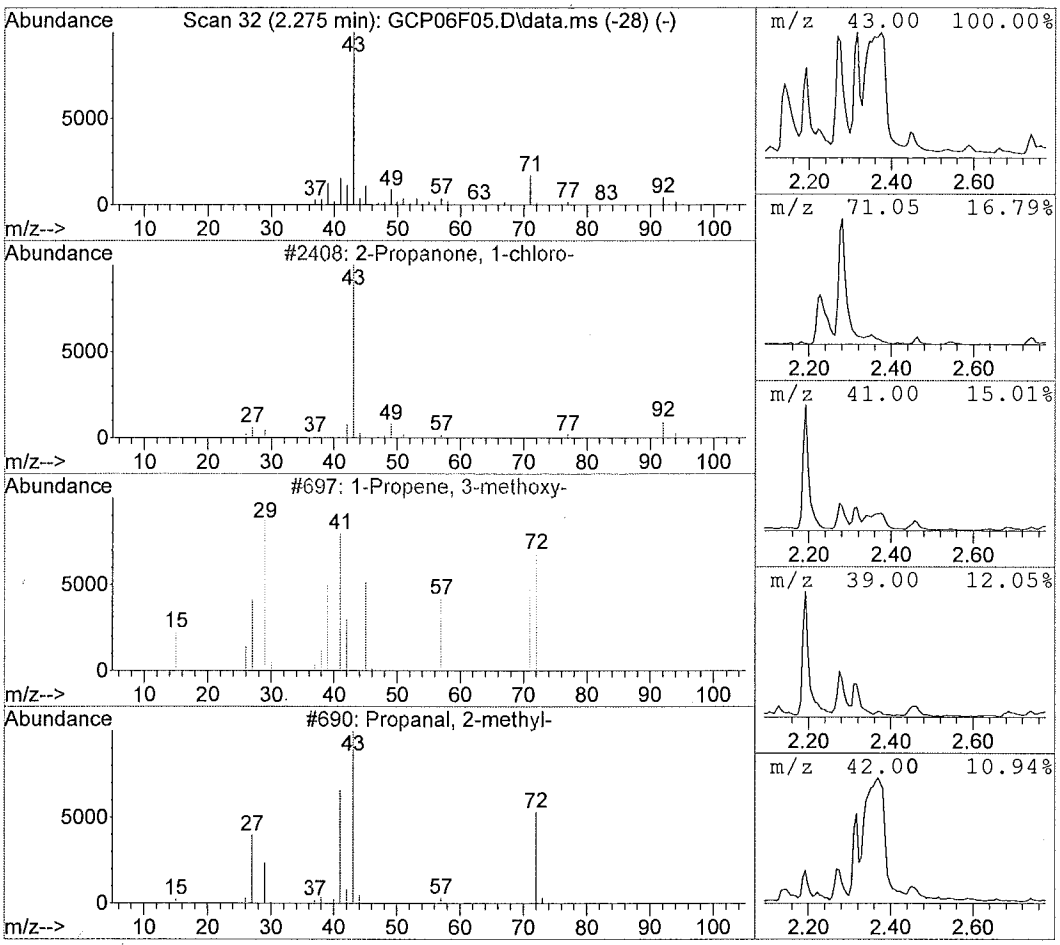
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP06F05.D Vial: 5
Acq On : 07/10/2015 12:01 Operator: TJM
Sample : 1515542005 F9M25 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
2.27	4.20 ug/ml	483753	1,4-Dichlorobenzene-d4	2305714

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propanone, 1-chloro-	2408	000078-95-5	50.00
2	1-Propene, 3-methoxy-	697	000627-40-7	12.00
3	Propanal, 2-methyl-	690	000078-84-2	9.00
4	1-Trifluoroacetoxy-2-methylpentane	60125	155089-96-6	9.00
5	Propane, 2-chloro-	1009	000075-29-6	9.00



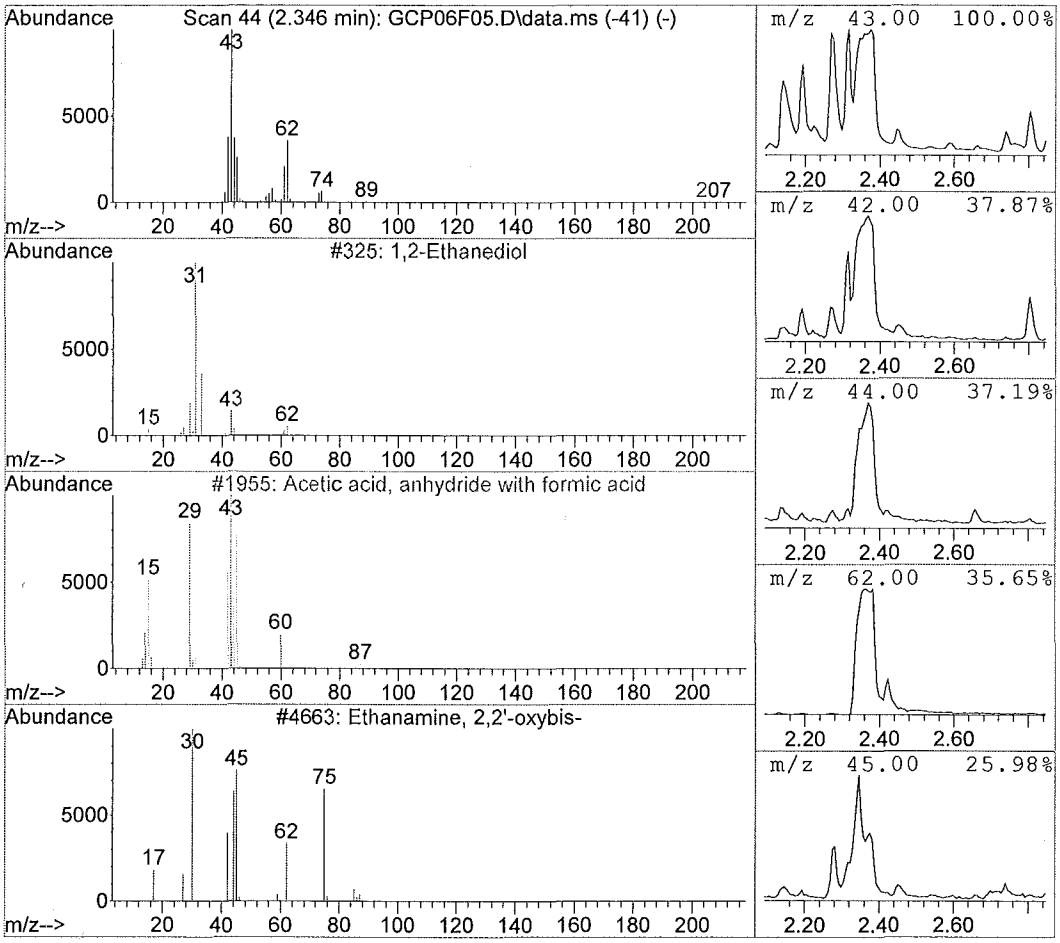
00172

Data File : R:\G\2015\JUL15\10JUL15\GCP06F05.D Vial: 5
Acq On : 07/10/2015 12:01 Operator: TJM
Sample : 1515542005 F9M25 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	3.68 ug/ml	423745	1,4-Dichlorobenzene-d4	2305714

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2-Ethanediol	325	000107-21-1	9.00
2	Acetic acid, anhydride with formic	1955	002258-42-6	9.00
3	Ethanamine, 2,2'-oxybis-	4663	002752-17-2	9.00
4	Ethene, chloro-	323	000075-01-4	5.00
5	Peroxide, dimethyl	330	000690-02-8	5.00



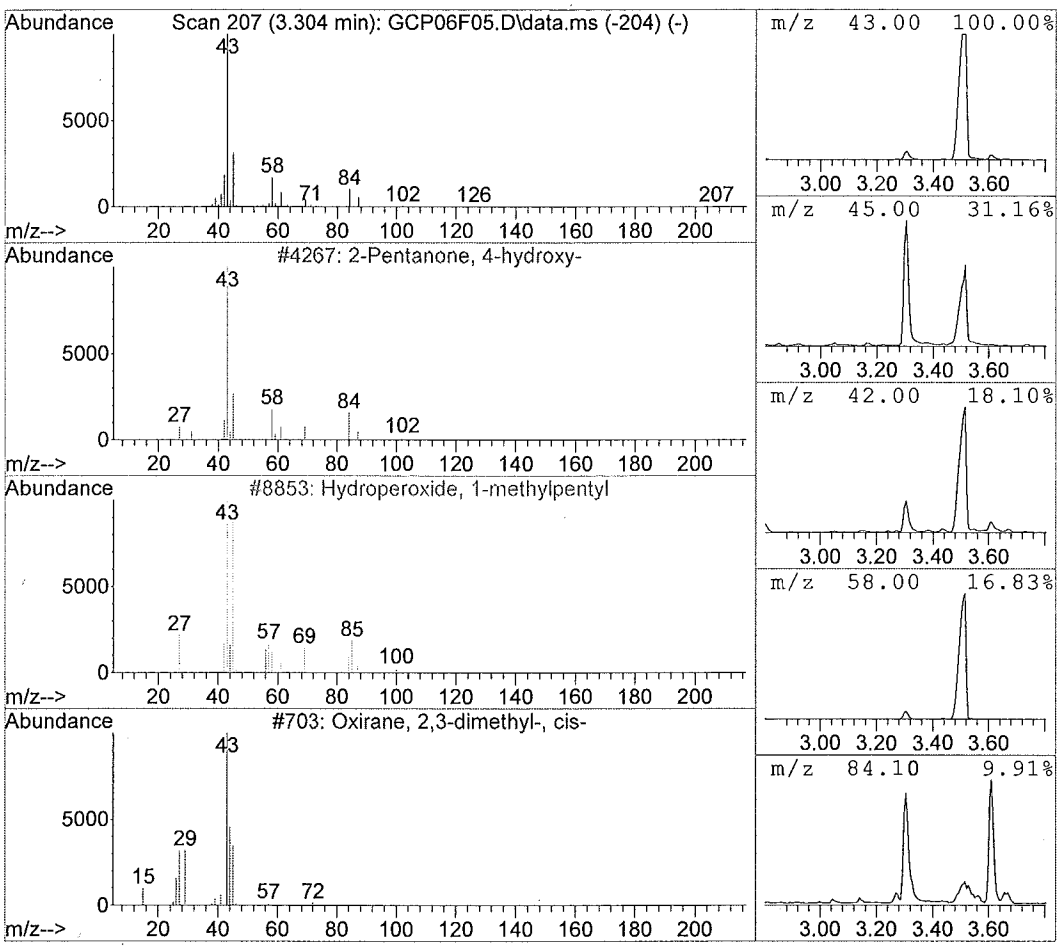
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP06F05.D Vial: 5
Acq On : 07/10/2015 12:01 Operator: TJM
Sample : 1515542005 F9M25 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	14.35 ug/ml	1654478	1,4-Dichlorobenzene-d4	2305714

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	56.00
2	Hydroperoxide, 1-methylpentyl	8853	024254-55-5	33.00
3	Oxirane, 2,3-dimethyl-, cis-	703	001758-33-4	17.00
4	Acetone	213	000067-64-1	9.00
5	Isopropyl acetate	4253	000108-21-4	9.00



Library Search Compound Report

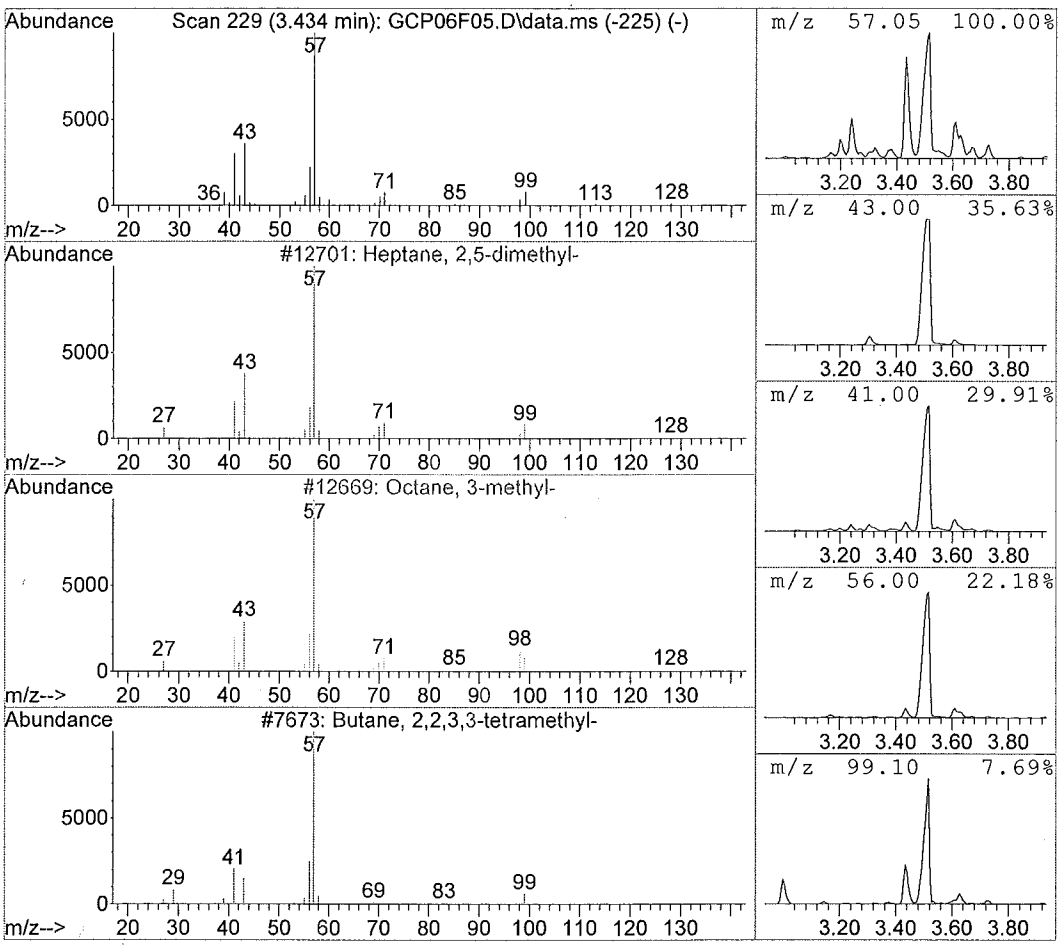
Data File : R:\G\2015\JUL15\10JUL15\GCP06F05.D Vial: 5
Acq On : 07/10/2015 12:01 Operator: TJM
Sample : 1515542005 F9M25 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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
3.43	4.63 ug/ml	533523	1,4-Dichlorobenzene-d4	2305714

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,5-dimethyl-	12701	002216-30-0	74.00
2	Octane, 3-methyl-	12669	002216-33-3	64.00
3	Butane, 2,2,3,3-tetramethyl-	7673	000594-82-1	53.00
4	Heptane, 3,5-dimethyl-	12702	000926-82-9	50.00
5	Butane, 1-chloro-2-methyl-	5036	000616-13-7	42.00

BA



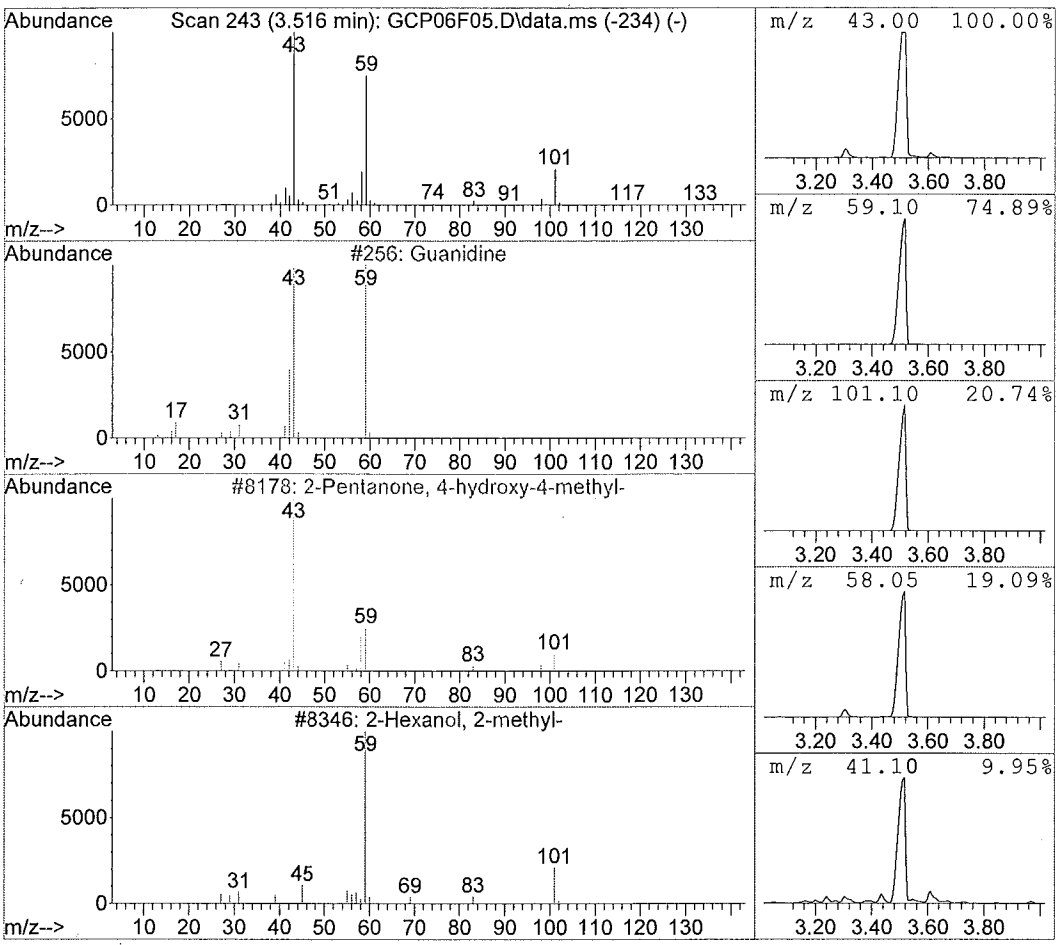
00175

Data File : R:\G\2015\JUL15\10JUL15\GCP06F05.D Vial: 5
Acq On : 07/10/2015 12:01 Operator: TJM
Sample : 1515542005 F9M25 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
3.52	358.02 ug/ml	41274368	1,4-Dichlorobenzene-d4	2305714

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Guanidine	256	000113-00-8	50.00
2	2-Pentanone, 4-hydroxy-4-methyl-	8178	000123-42-2	50.00
3	2-Hexanol, 2-methyl-	8346	000625-23-0	36.00
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\JUL15\10JUL15\GCP06F05.D Vial: 5
Acq On : 07/10/2015 12:01 Operator: TJM
Sample : 1515542005 F9M25 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
3.61	9.32 ug/ml	1074014	1,4-Dichlorobenzene-d4	2305714

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12693	003074-71-3	91.00
2	Decane, 5,6-dimethyl-	38347	001636-43-7	83.00
3	Hexane, 3-ethyl-	7623	000619-99-8	64.00
4	Octane, 4-methyl-	12674	002216-34-4	64.00
5	Hexane, 3-ethyl-2-methyl-	12726	016789-46-1	64.00

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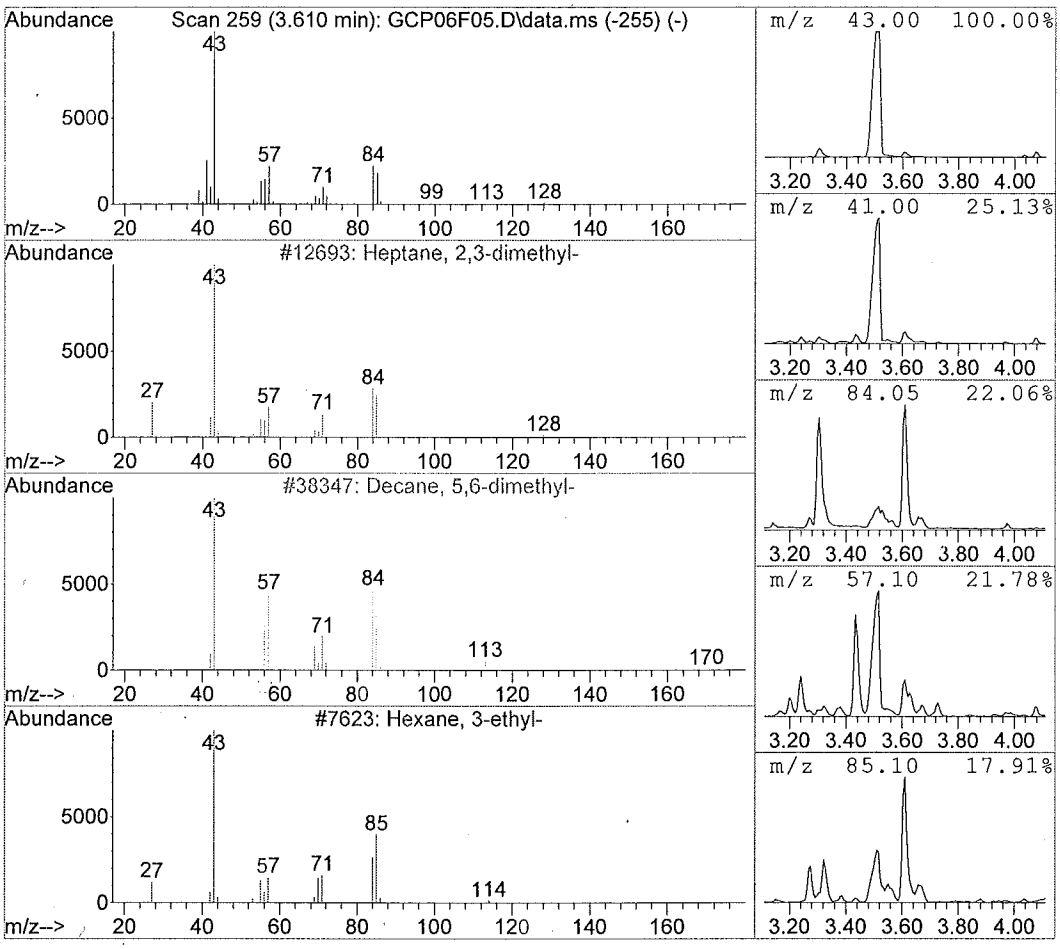


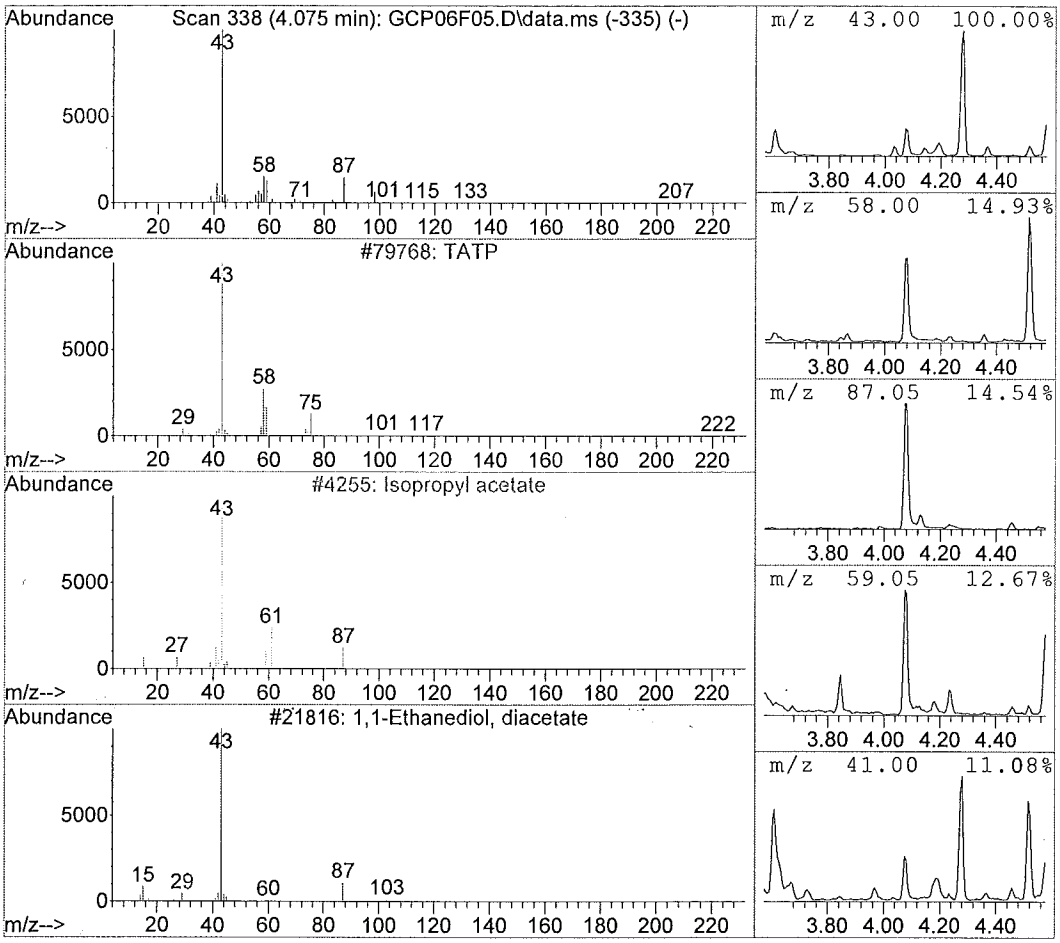
00177

Data File : R:\G\2015\JUL15\10JUL15\GCP06F05.D Vial: 5
Acq On : 07/10/2015 12:01 Operator: TJM
Sample : 1515542005 F9M25 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	6.27 ug/ml	722491	1,4-Dichlorobenzene-d4	2305714

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	TATP	79768	017088-37-8	40.00
2	Isopropyl acetate	4255	000108-21-4	25.00
3	1,1-Ethanediol, diacetate	21816	000542-10-9	17.00
4	1-Butanamine, 2-methyl-	1912	000096-15-1	9.00
5	Isobutyl acetate	8078	000110-19-0	9.00



Library Search Compound Report

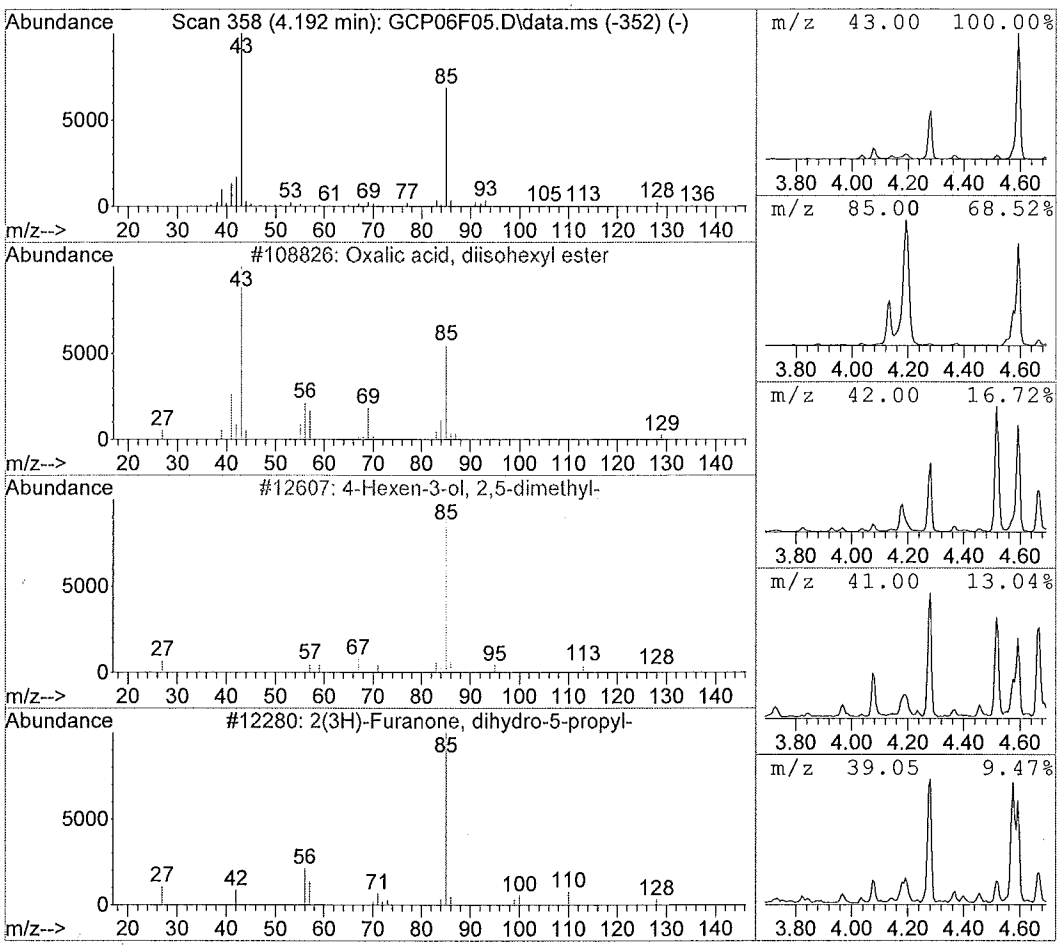
Data File : R:\G\2015\JUL15\10JUL15\GCP06F05.D
Acq On : 07/10/2015 12:01
Sample : 1515542005 F9M25
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 5
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
4.19	5.50 ug/ml	634418	1,4-Dichlorobenzene-d4	2305714

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Oxalic acid, diisohexyl ester	108826	1000309-32-9	39.00
2	4-Hexen-3-ol, 2,5-dimethyl-	12607	060703-31-3	9.00
3	2(3H)-Furanone, dihydro-5-propyl-	12280	000105-21-5	9.00
4	Hexane, 2,3,5-trimethyl-	12708	001069-53-0	9.00
5	Hexane, 2,3,3-trimethyl-	12707	016747-28-7	9.00



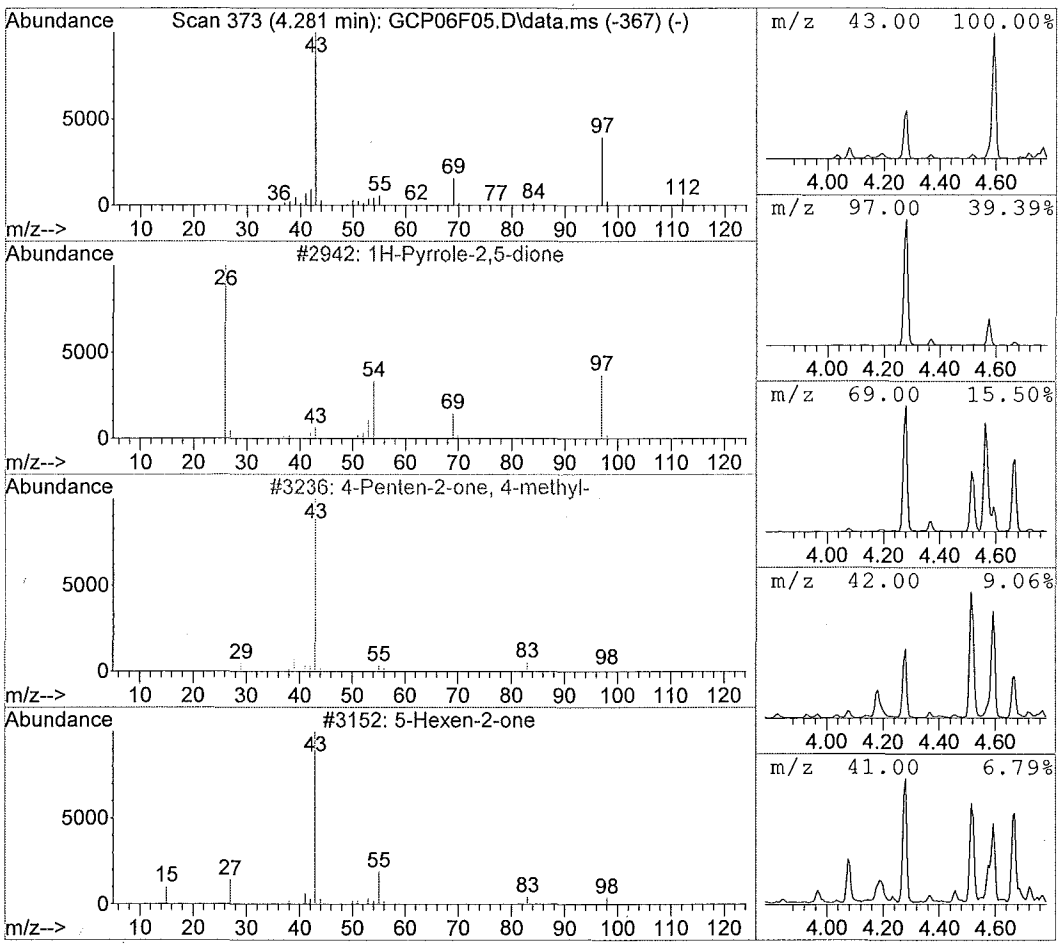
:00179

Data File : R:\G\2015\JUL15\10JUL15\GCP06F05.D Vial: 5
Acq On : 07/10/2015 12:01 Operator: TJM
Sample : 1515542005 F9M25 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	27.02 ug/ml	3114649	1,4-Dichlorobenzene-d4	2305714

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	5-Hexen-2-one, 5-methyl-	6517	003240-09-3	5.00



Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP06F05.D
Acq On : 07/10/2015 12:01
Sample : 1515542005 F9M25
Misc : . SOIL SOM
MS Integration Params: rteint.p

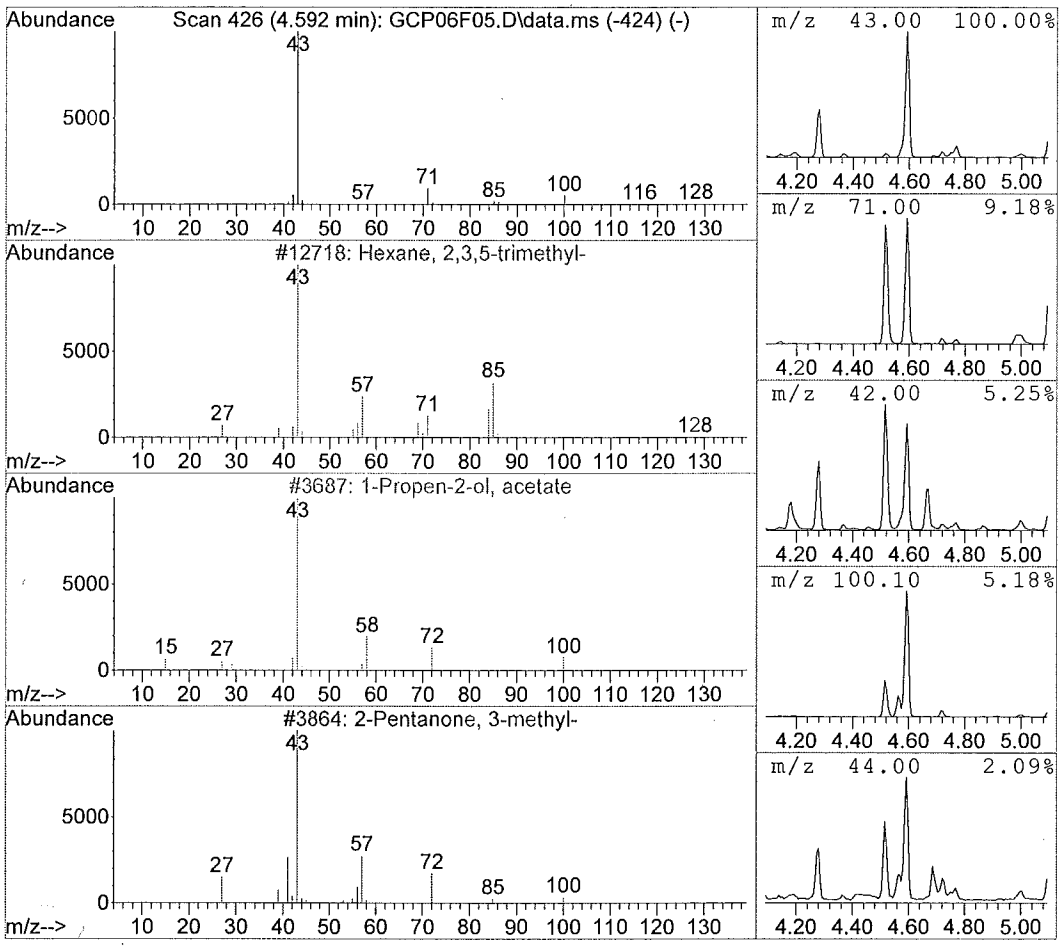
Vial: 5
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

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	40.30 ug/ml	4645501	1,4-Dichlorobenzene-d4	2305714

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	7.00
2	1-Propen-2-ol, acetate	3687	000108-22-5	5.00
3	2-Pentanone, 3-methyl-	3864	000565-61-7	5.00
4	Heptane	3970	000142-82-5	5.00
5	Pentane, 3-ethyl-2,4-dimethyl-	12745	001068-87-7	5.00

BA



: 00191

Library Search Compound Report

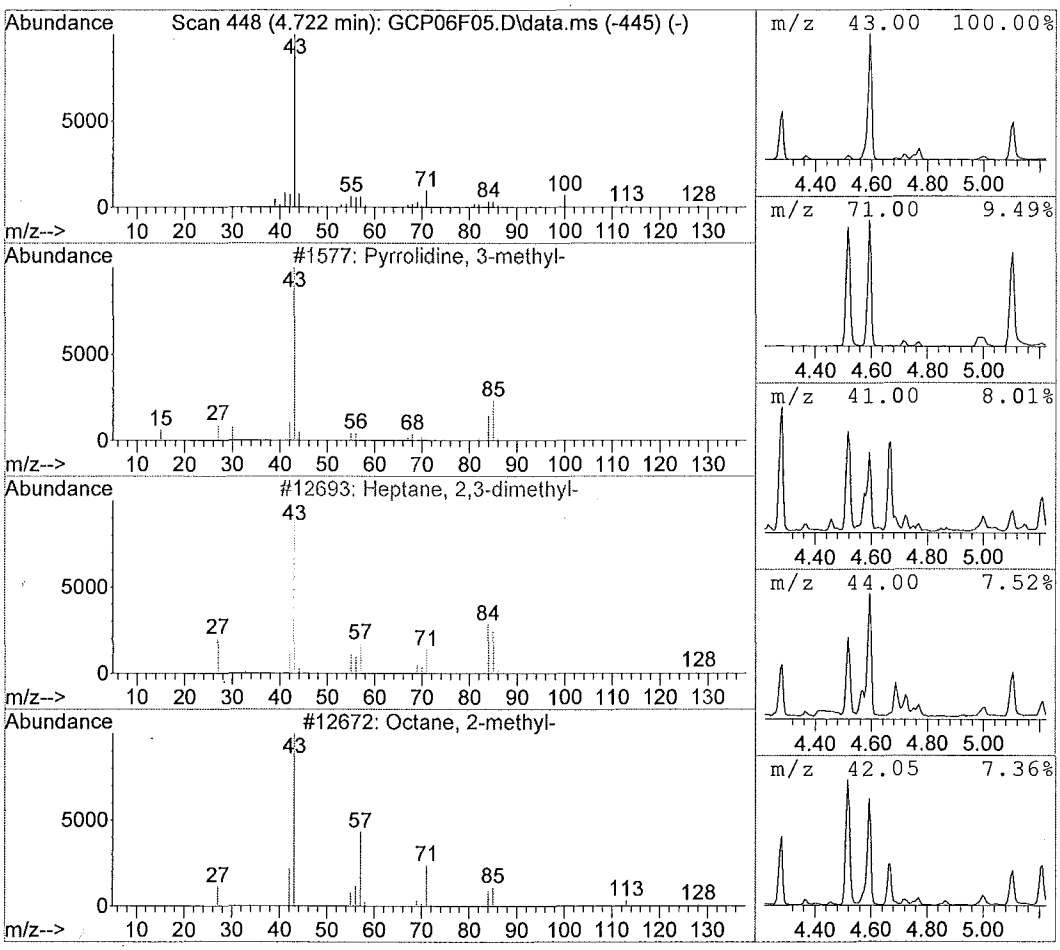
Data File : R:\G\2015\JUL15\10JUL15\GCP06F05.D
Acq On : 07/10/2015 12:01
Sample : 1515542005 F9M25
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 5
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
4.72	4.00 ug/ml	460673	1,4-Dichlorobenzene-d4	2305714

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pyrrolidine, 3-methyl-	1577	034375-89-8	47.00
2	Heptane, 2,3-dimethyl-	12693	003074-71-3	38.00
3	Octane, 2-methyl-	12672	003221-61-2	38.00
4	2,6-Heptanedione	12183	013505-34-5	38.00
5	2-Hexanone, 4-methyl-	7496	000105-42-0	36.00



Library Search Compound Report

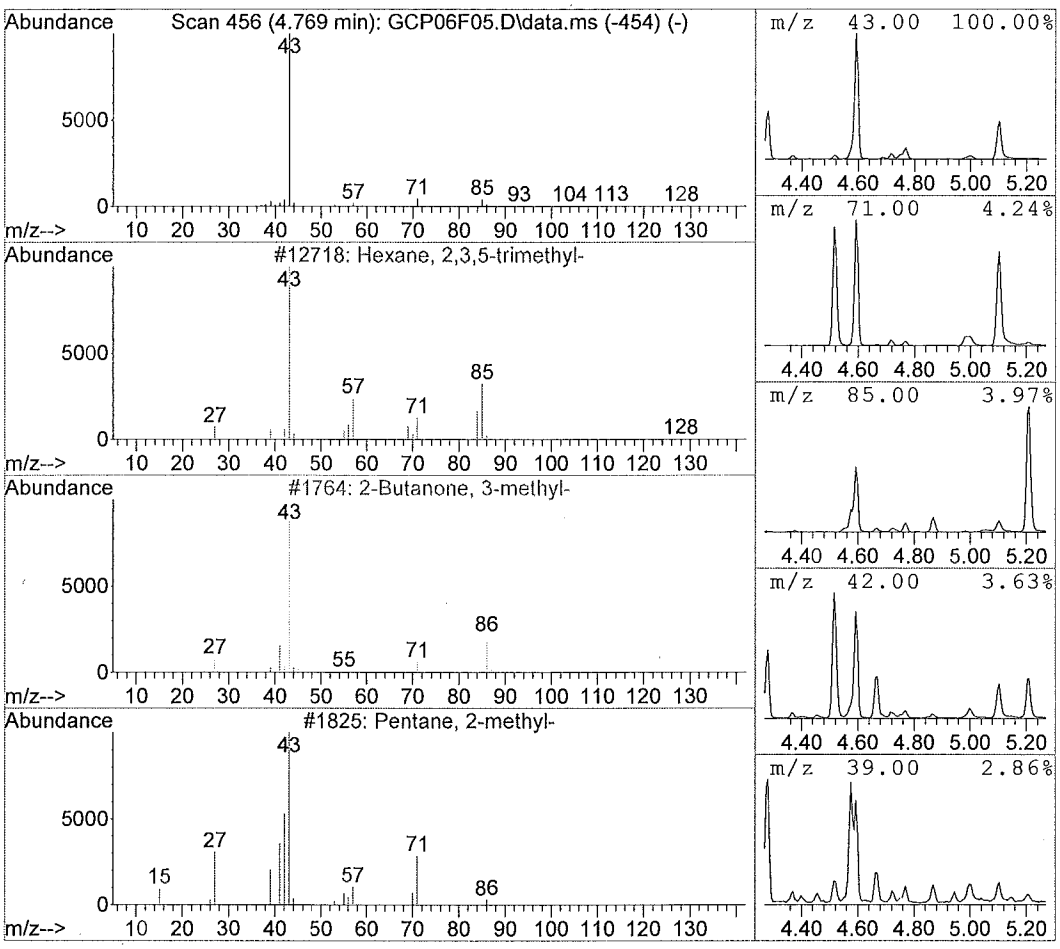
Data File : R:\G\2015\JUL15\10JUL15\GCP06F05.D Vial: 5
Acq On : 07/10/2015 12:01 Operator: TJM
Sample : 1515542005 F9M25 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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	3.83 ug/ml	441869	1,4-Dichlorobenzene-d4	2305714

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	5.00
2	2-Butanone, 3-methyl-	1764	000563-80-4	4.00
3	Pentane, 2-methyl-	1825	000107-83-5	3.00
4	Pyrrolidine, 3-methyl-	1577	034375-89-8	3.00
5	2-Pentanone	1709	000107-87-9	2.00

BA

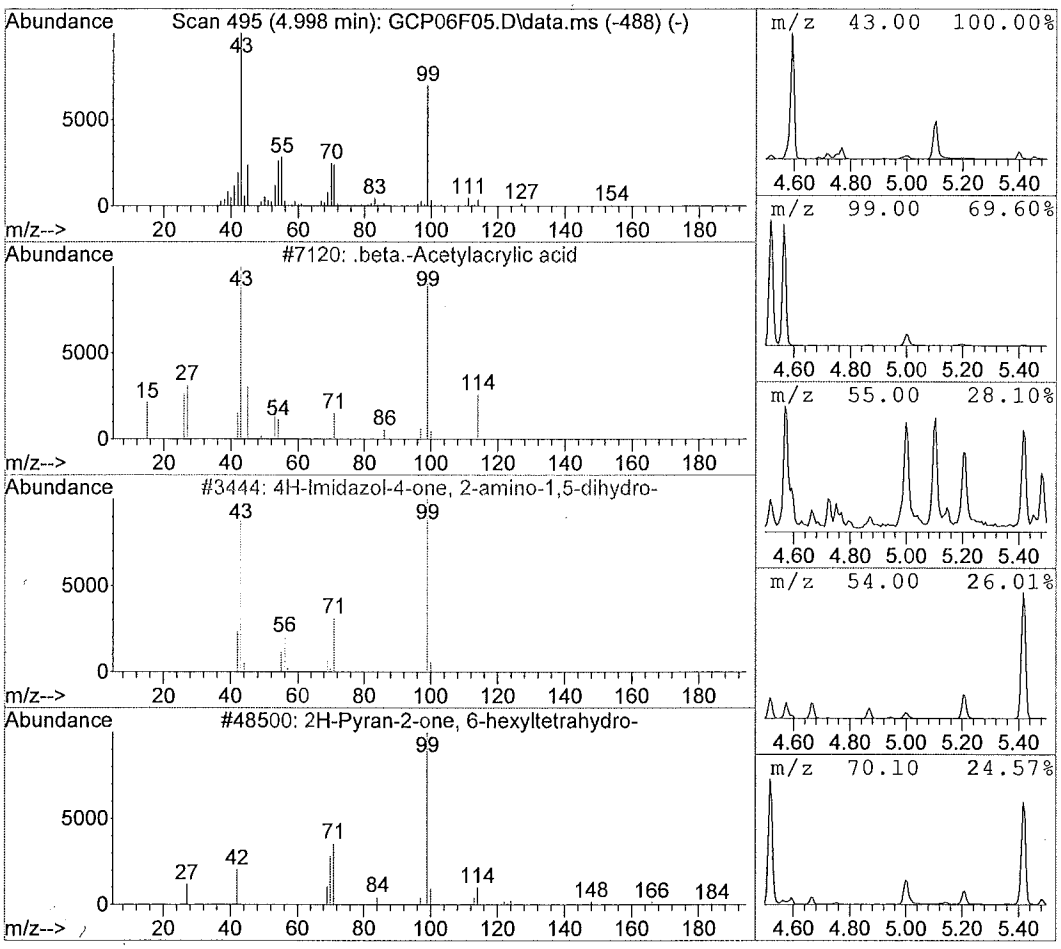


Data File : R:\G\2015\JUL15\10JUL15\GCP06F05.D Vial: 5
Acq On : 07/10/2015 12:01 Operator: TJM
Sample : 1515542005 F9M25 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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
5.00	6.28 ug/ml	724207	1,4-Dichlorobenzene-d4	2305714

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	.beta.-Acetylacrylic acid	7120	004743-82-2	47.00
2	4H-Imidazol-4-one, 2-amino-1,5-dihy	3444	000503-86-6	43.00
3	2H-Pyran-2-one, 6-hexyltetrahydro-	48500	000710-04-3	38.00
4	3-Pentenoic acid, 4-methyl-	7227	000504-85-8	38.00
5	5H-1,4-Dioxepin, 2,3-dihydro-5-meth	7305	038653-36-0	38.00



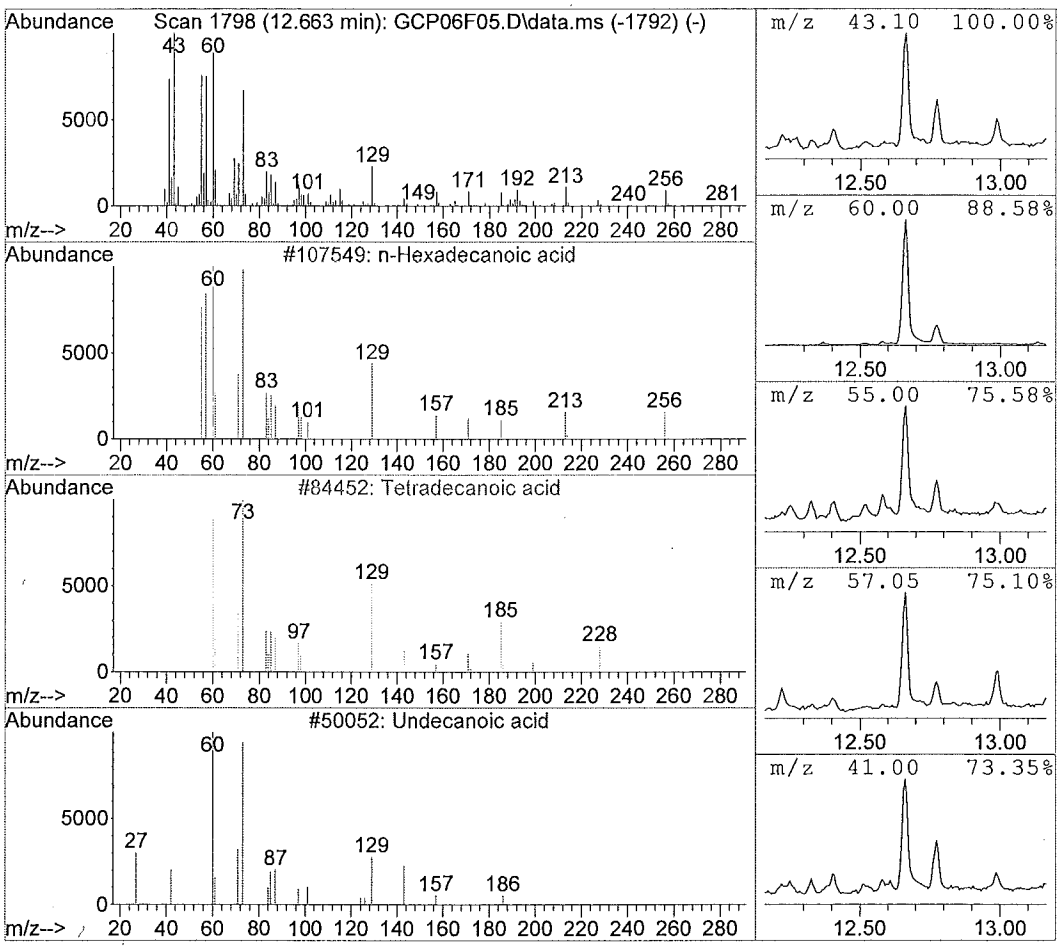
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP06F05.D Vial: 5
Acq On : 07/10/2015 12:01 Operator: TJM
Sample : 1515542005 F9M25 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	9.29 ug/ml	1393033	Phenanthrene-d10	2997536

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	n-Hexadecanoic acid	107549	000057-10-3	98.00
2	Tetradecanoic acid	84452	000544-63-8	86.00
3	Undecanoic acid	50052	000112-37-8	64.00
4	n-Decanoic acid	39473	000334-48-5	64.00
5	Tridecanoic acid	72646	000638-53-9	64.00



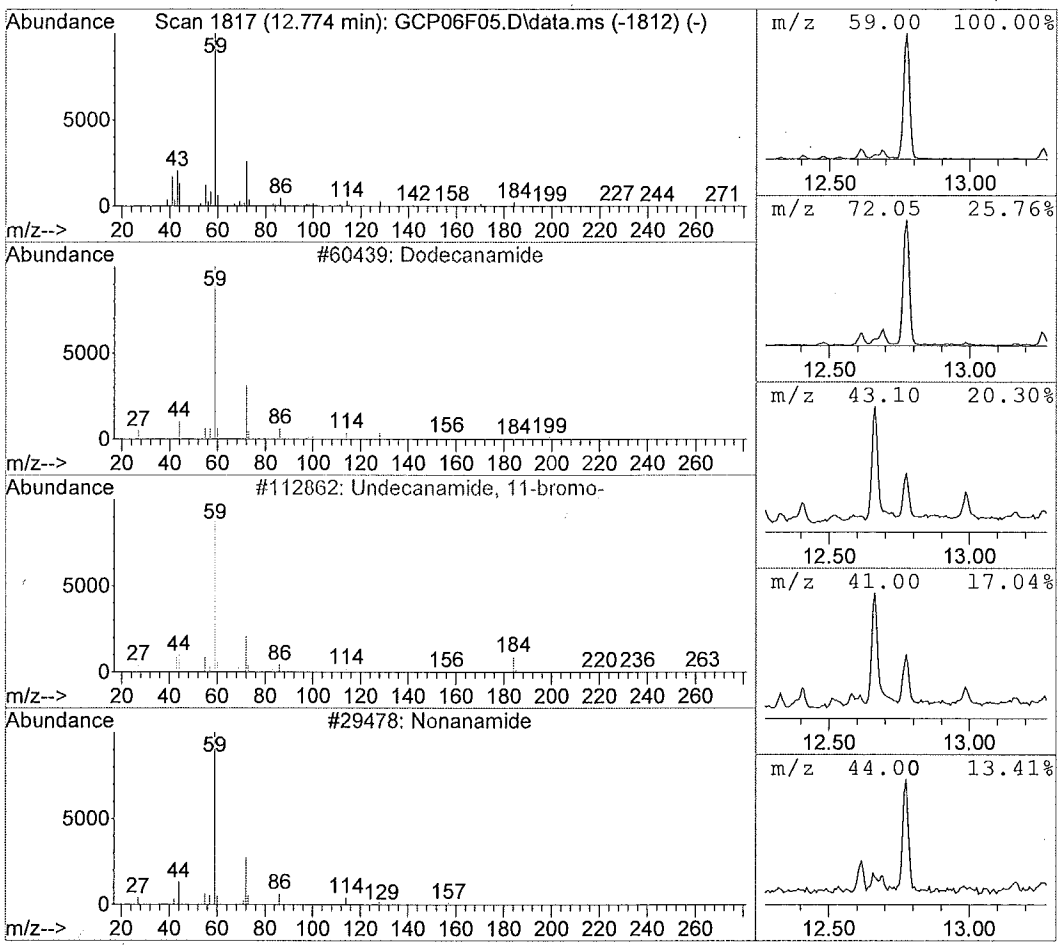
00185

Data File : R:\G\2015\JUL15\10JUL15\GCP06F05.D Vial: 5
Acq On : 07/10/2015 12:01 Operator: TJM
Sample : 1515542005 F9M25 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	3.83 ug/ml	574551	Phenanthrene-d10	2997536

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	83.00
2	Undecanamide, 11-bromo-	112862	005875-26-3	83.00
3	Nonanamide	29478	001120-07-6	83.00
4	Pentanamide	4064	000626-97-1	80.00
5	Tetradecanamide	83609	000638-58-4	74.00



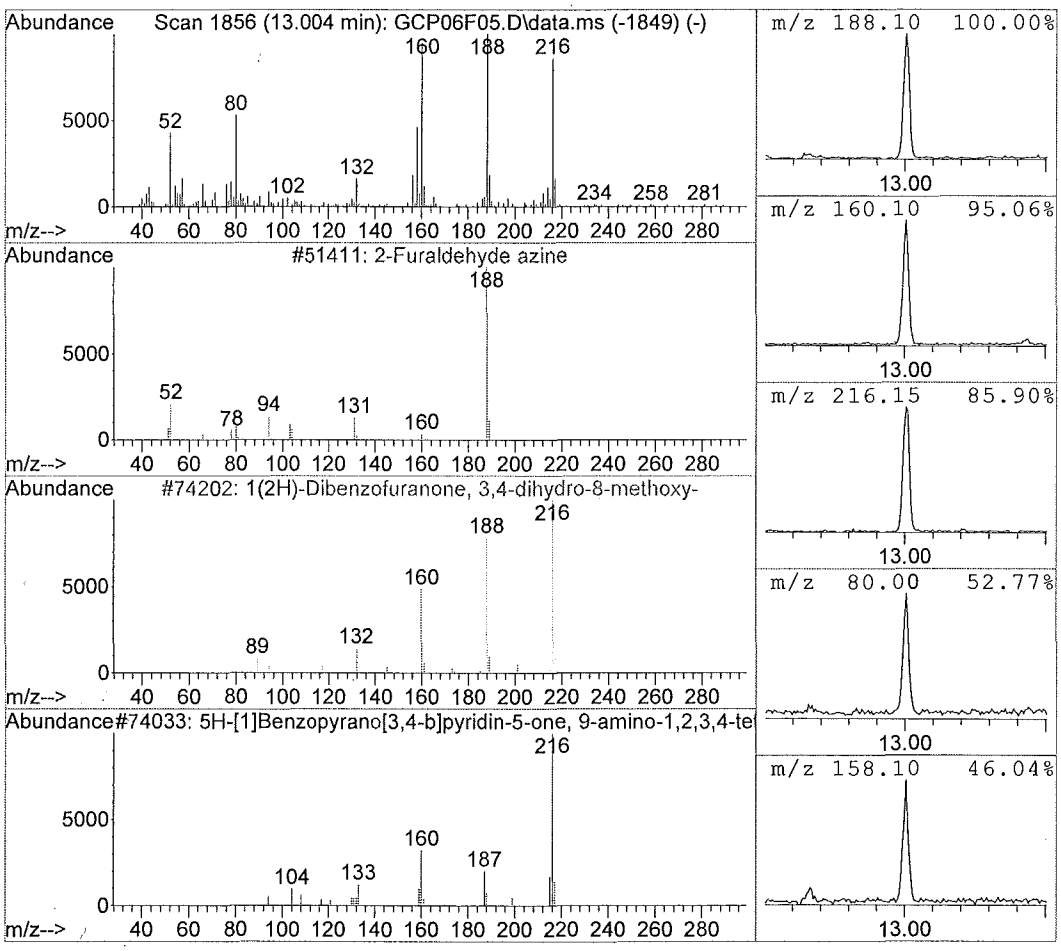
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP06F05.D Vial: 5
Acq On : 07/10/2015 12:01 Operator: TJM
Sample : 1515542005 F9M25 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	2.78 ug/ml	416182	Phenanthrene-d10	2997536

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Furaldehyde azine	51411	005428-37-5	43.00
2	1(2H)-Dibenzofuranone, 3,4-dihydro-	74202	095338-40-2	27.00
3	5H-[1]Benzopyrano[3,4-b]pyridin-5-o	74033	1000337-92-0	22.00
4	4-(4-Ethoxyphenyl)-1H-imidazole	51480	1000311-54-8	18.00
5	4H-1-Benzopyran-8-carboxylic acid,	88751	051786-54-0	12.00



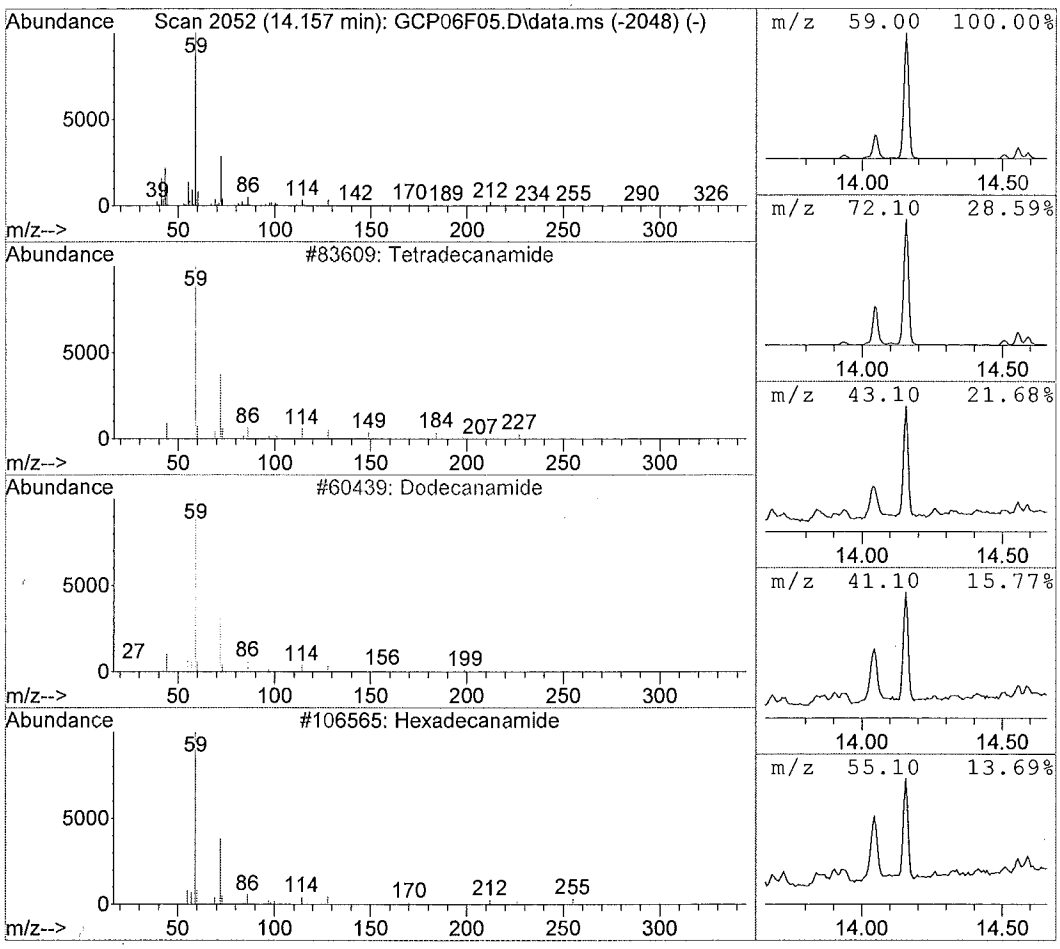
00197

Data File : R:\G\2015\JUL15\10JUL15\GCP06F05.D Vial: 5
Acq On : 07/10/2015 12:01 Operator: TJM
Sample : 1515542005 F9M25 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
14.16	11.87 ug/ml	1913142	Chrysene-d12	3223502

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83609	000638-58-4	90.00
2	Dodecanamide	60439	001120-16-7	90.00
3	Hexadecanamide	106565	000629-54-9	87.00
4	Undecanamide, 11-bromo-	112862	005875-26-3	86.00
5	Pentanamide	4064	000626-97-1	78.00



Library Search Compound Report

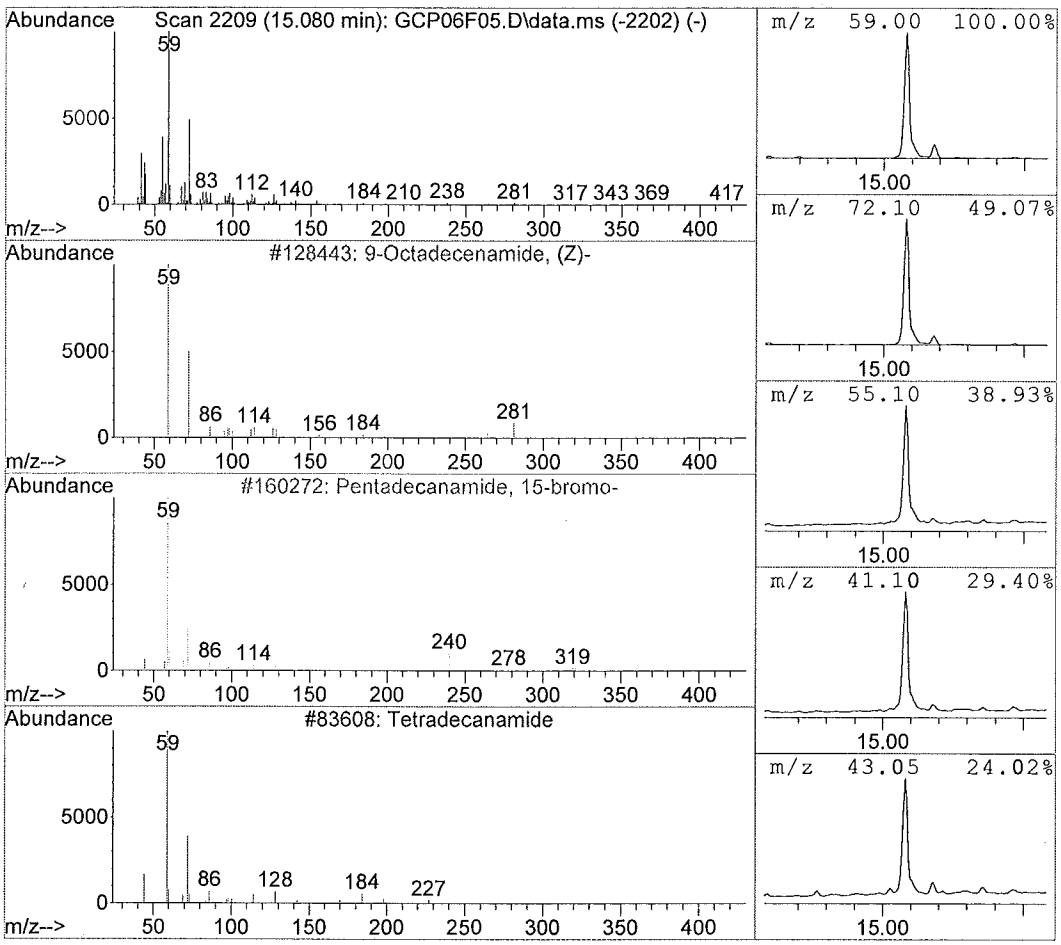
Data File : R:\G\2015\JUL15\10JUL15\GCP06F05.D
Acq On : 07/10/2015 12:01
Sample : 1515542005 F9M25
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 5
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
15.08	63.55 ug/ml	10242418	Chrysene-d12	3223502

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	94.00
2	Pentadecanamide, 15-bromo-	160272	1000163-86-1	80.00
3	Tetradecanamide	83608	000638-58-4	72.00
4	Dodecanamide	60439	001120-16-7	59.00
5	Pentanamide	4064	000626-97-1	59.00



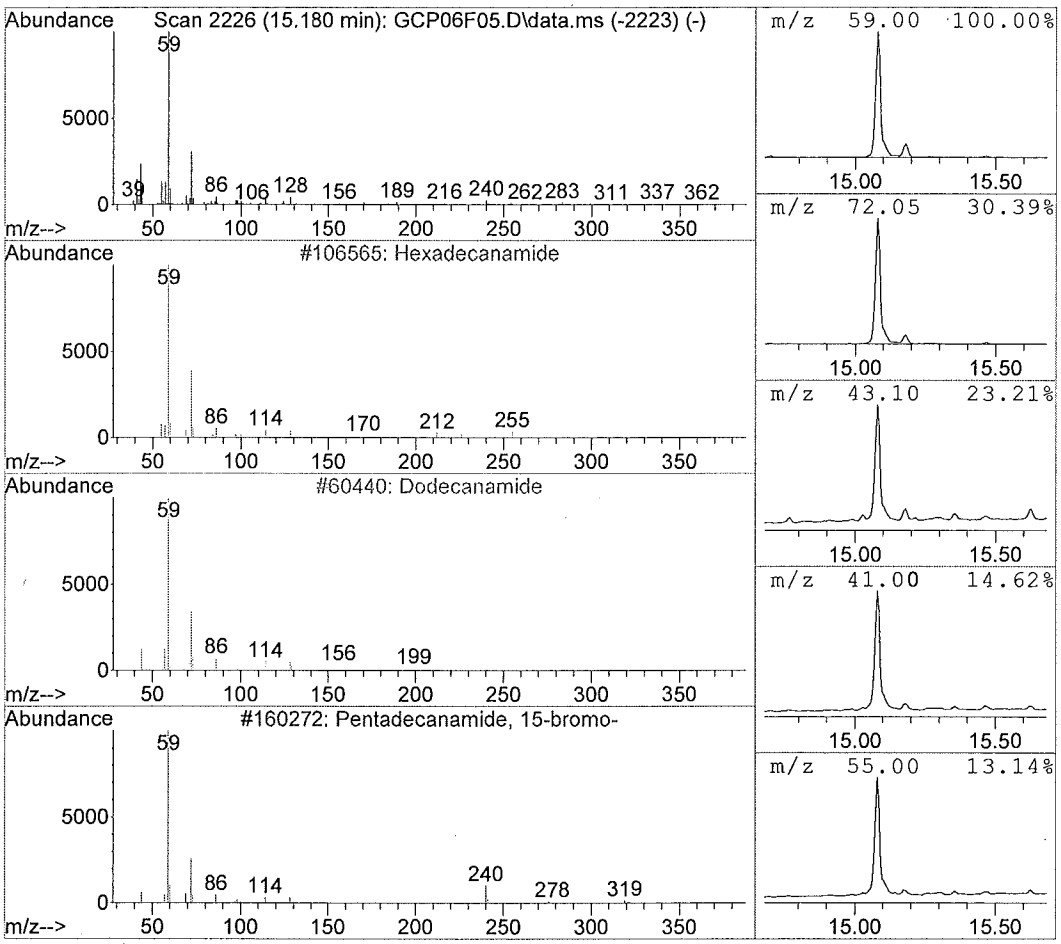
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP06F05.D Vial: 5
Acq On : 07/10/2015 12:01 Operator: TJM
Sample : 1515542005 F9M25 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
15.18	3.11 ug/ml	500914	Chrysene-d12	3223502

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	90.00
2	Dodecanamide	60440	001120-16-7	87.00
3	Pentadecanamide, 15-bromo-	160272	1000163-86-1	83.00
4	Undecanamide, 11-bromo-	112862	005875-26-3	78.00
5	Pentanamide	4064	000626-97-1	59.00



Library Search Compound Report

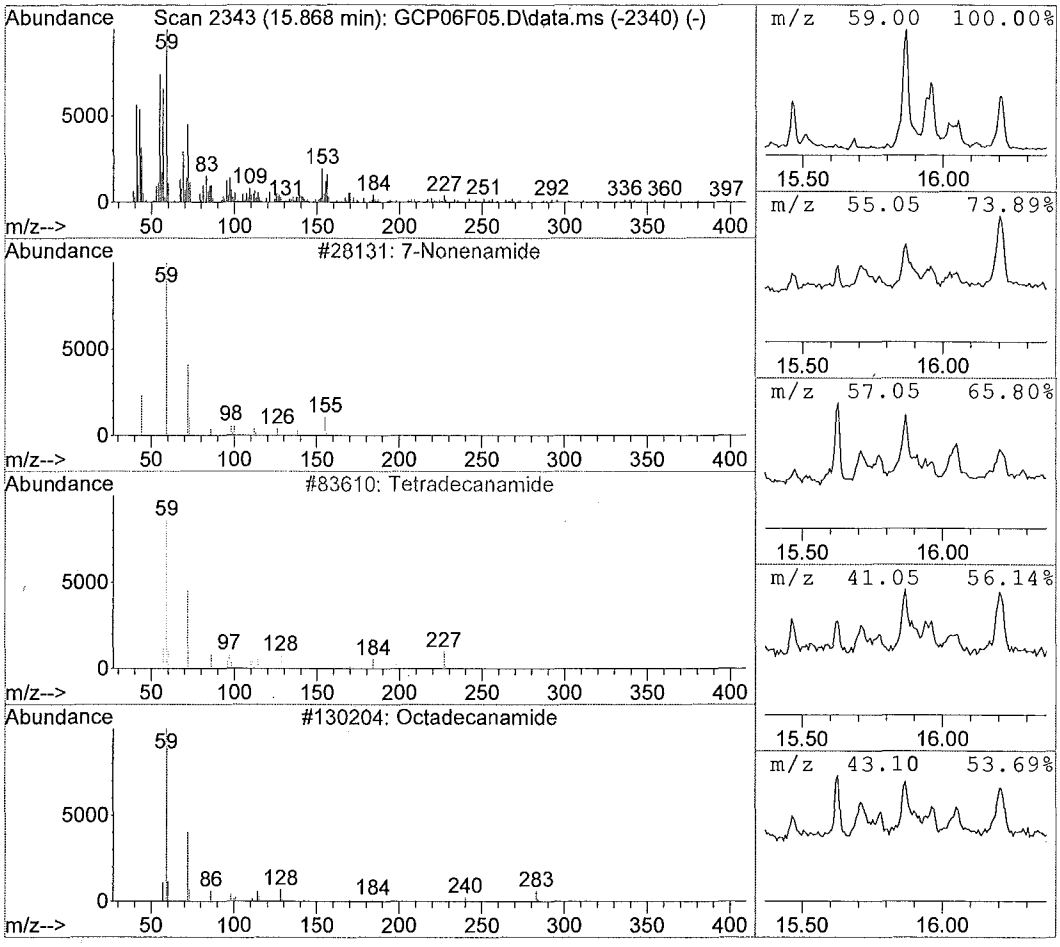
Data File : R:\G\2015\JUL15\10JUL15\GCP06F05.D
Acq On : 07/10/2015 12:01
Sample : 1515542005 F9M25
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 5
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
15.87	4.05 ug/ml	653445	Chrysene-d12	3223502

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	7-Nonenamide	28131	090949-53-4	92.00
2	Tetradecanamide	83610	000638-58-4	86.00
3	Octadecanamide	130204	000124-26-5	50.00
4	Dodecanamide	60439	001120-16-7	50.00
5	Pentanamide	4064	000626-97-1	47.00



: 00191

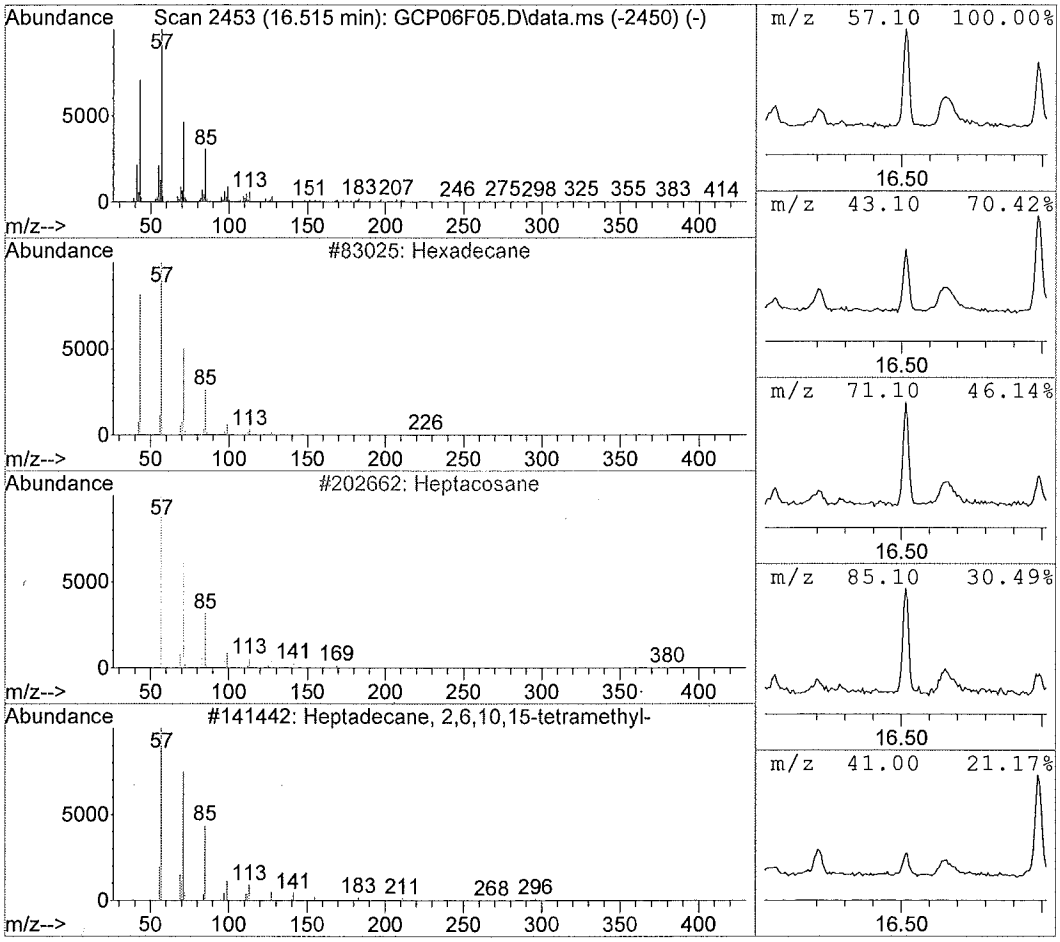
Data File : R:\G\2015\JUL15\10JUL15\GCP06F05.D Vial: 5
Acq On : 07/10/2015 12:01 Operator: TJM
Sample : 1515542005 F9M25 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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
16.52	4.96 ug/ml	800017	Chrysene-d12	3223502

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecane	83025	000544-76-3	95.00
2	Heptacosane	202662	000593-49-7	93.00
3	Heptadecane, 2,6,10,15-tetramethyl-	141442	054833-48-6	83.00
4	Tridecane, 6-propyl-	83030	055045-10-8	81.00
5	Hexacosane	194493	000630-01-3	80.00

SCA



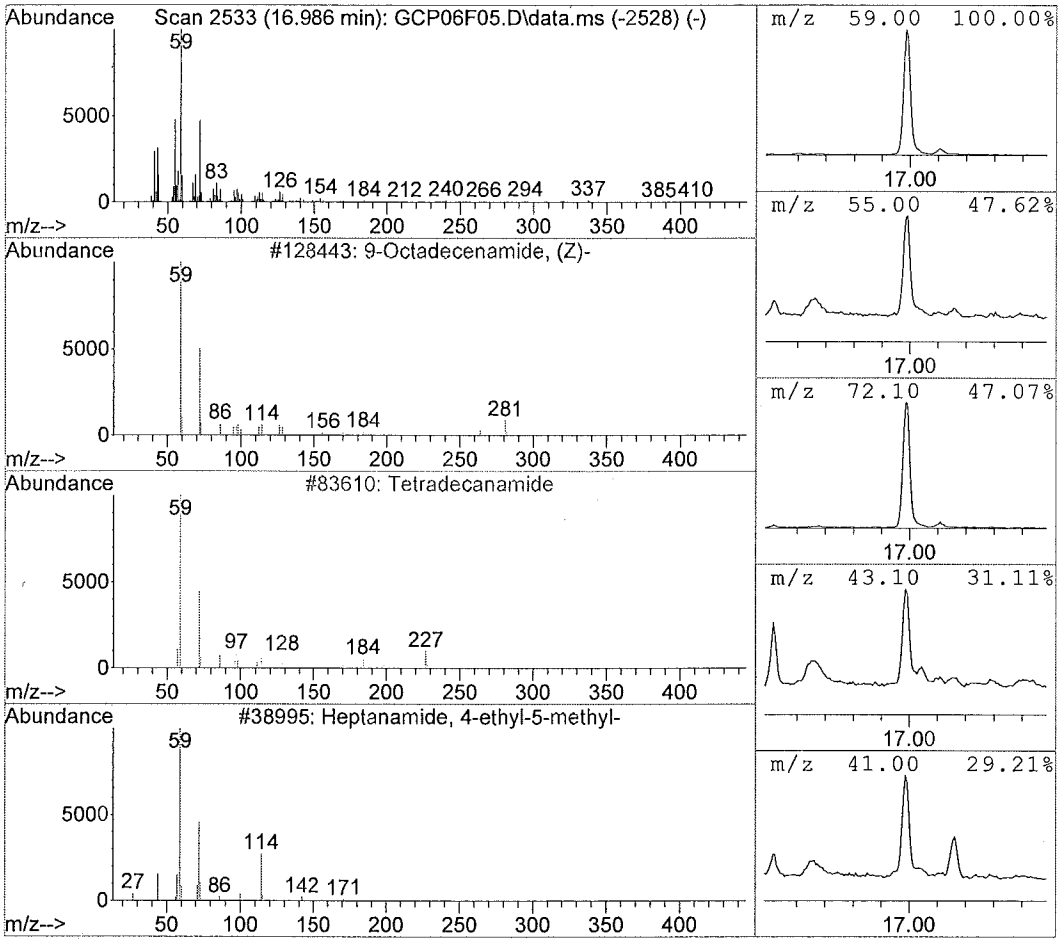
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP06F05.D Vial: 5
Acq On : 07/10/2015 12:01 Operator: TJM
Sample : 1515542005 F9M25 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
16.99	42.79 ug/ml	3420540	Perylene-d12	1598615

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	90.00
2	Tetradecanamide	83610	000638-58-4	78.00
3	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	64.00
4	Hexadecanamide	106565	000629-54-9	64.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	59.00



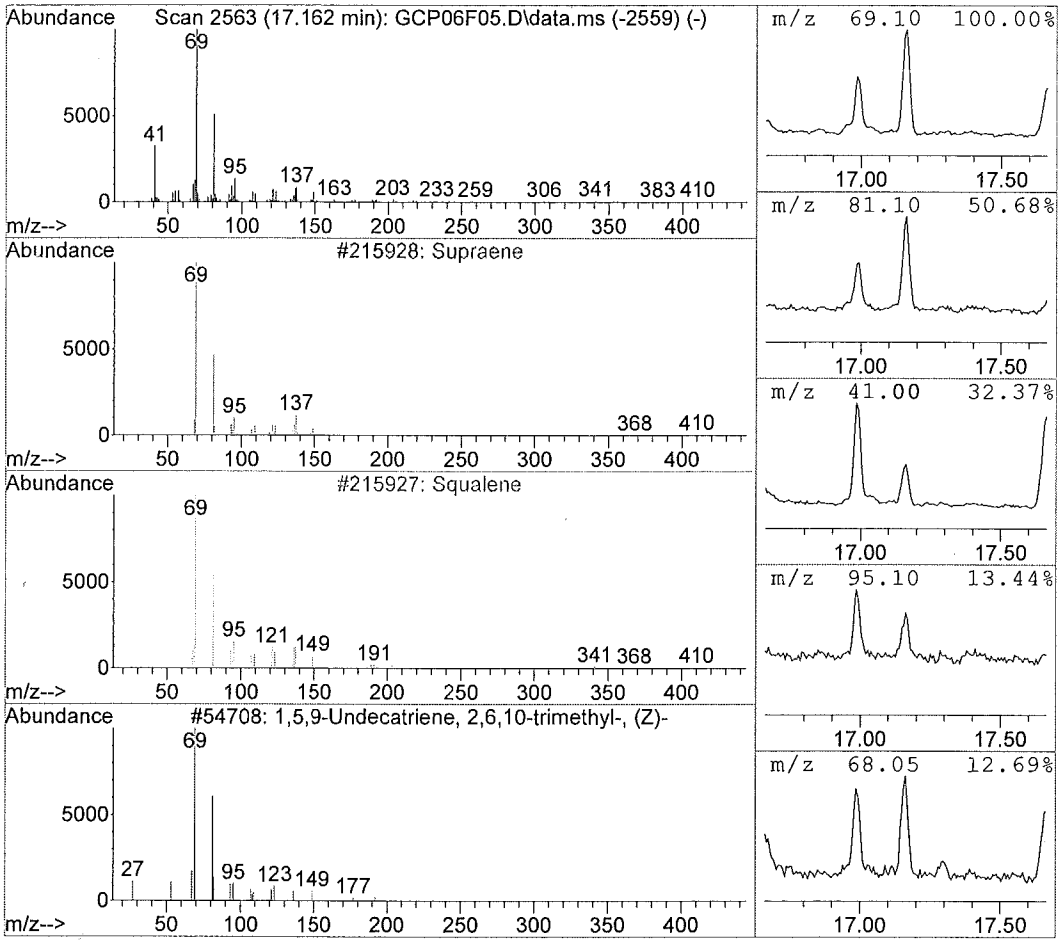
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP06F05.D Vial: 5
Acq On : 07/10/2015 12:01 Operator: TJM
Sample : 1515542005 F9M25 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	11.50 ug/ml	919361	Perylene-d12	1598615

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Supraene	215928	007683-64-9	94.00
2	Squalene	215927	000111-02-4	93.00
3	1,5,9-Undecatriene, 2,6,10-trimethy	54708	062951-96-6	80.00
4	trans-Farnesol	79392	000106-28-5	64.00
5	1,6-Octadiene, 3,5-dimethyl-, trans	16961	074630-87-8	59.00



Library Search Compound Report

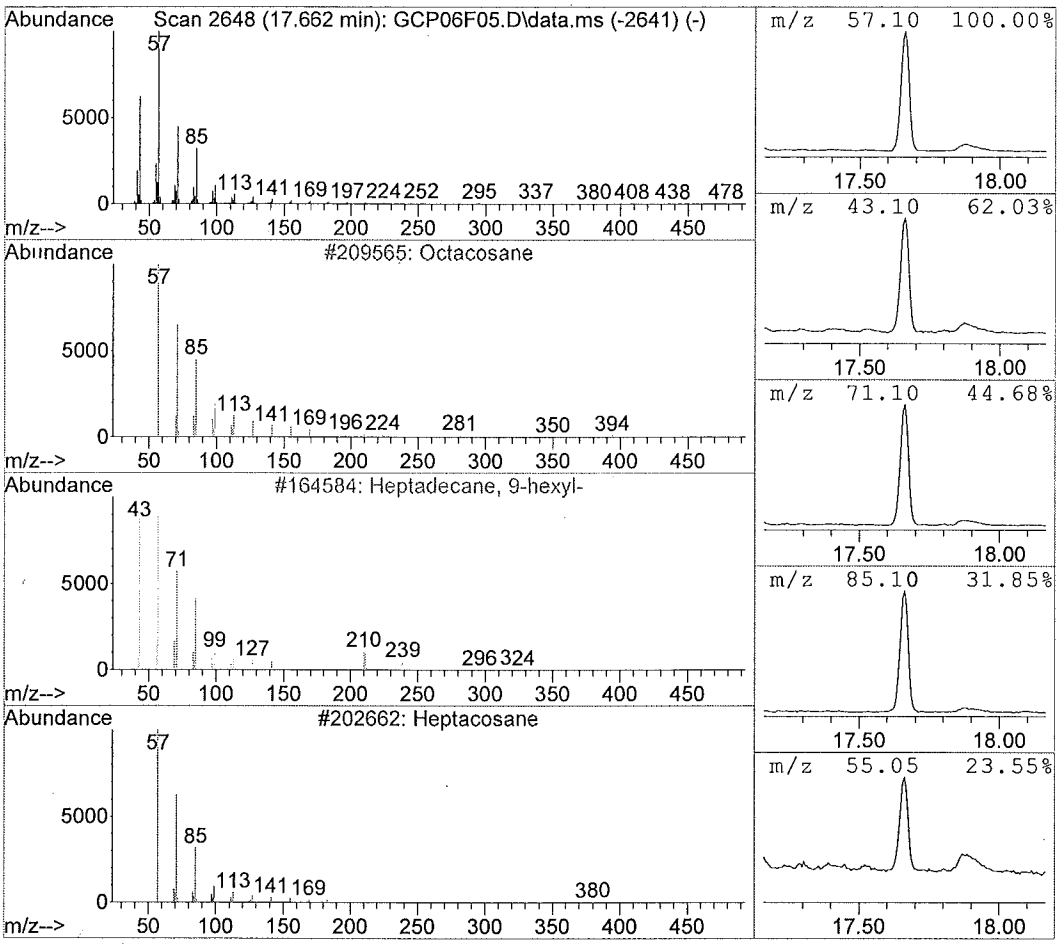
Data File : R:\G\2015\JUL15\10JUL15\GCP06F05.D Vial: 5
Acq On : 07/10/2015 12:01 Operator: TJM
Sample : 1515542005 F9M25 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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	59.60 ug/ml	4763627	Perylene-d12	1598615

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octacosane	209565	000630-02-4	95.00
2	Heptadecane, 9-hexyl-	164584	055124-79-3	93.00
3	Heptacosane	202662	000593-49-7	91.00
4	Hentriacontane	223851	000630-04-6	91.00
5	Heneicosane	141425	000629-94-7	87.00

SCA



00195

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M26

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GCP09F06

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

% Moisture: 15. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

GPC Cleanup: (Y/N) Y pH: 8.1 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.

F9M26

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GCP09F06

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

% Moisture: 15. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

GPC Cleanup: (Y/N) Y pH: 8.1 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	28.	J
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	17.	J
218-01-9	Chrysene	37.	J
117-81-7	Bis(2-ethylhexyl)phthalate	200	U
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	24.	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.

F9M26

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GCP09F06

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

% Moisture: 15. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

GPC Cleanup: (Y/N) Y pH: 8.1 Dilution Factor: 1.0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 2-Propanone, 1-chloro-	2.28	190	J
02		Unknown 1,2,5,6-Tetrahydropyridine, 1-methyl-6-[	2.35	200	J
03		Unknown Nitrosyl chloride	2.66	190	J
04		Unknown Methacrylamide	2.81	170	J
05		Unknown 2-Pentanone, 4-hydroxy-	3.30	550	JB
06		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.52	16000	JB
07		Unknown TATP	4.07	230	J
08		Unknown 2H-Imidazole, 2,2,4,5-tetramethyl-	4.18	250	J
09		Unknown 1H-Pyrrole-2,5-dione	4.28	1200	J
10		Unknown 2H-Pyran-2-one, 6-hexyltetrahydro-	5.00	190	J
11		Unknown 1,2,3-Propanetriol, 1-acetate	5.10	280	J
12		Unknown Fumaric acid, nonyl tetrahydrofurfuryl e	9.66	380	J
13	57-10-3	n-Hexadecanoic acid	12.66	130	JN
14	1120-16-7	Dodecanamide	14.16	380	JN
15	301-02-0	9-Octadecenamide, (Z)-	15.08	2100	JNB
16	301-02-0	9-Octadecenamide, (Z)-	16.99	1300	JN
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	2600	J

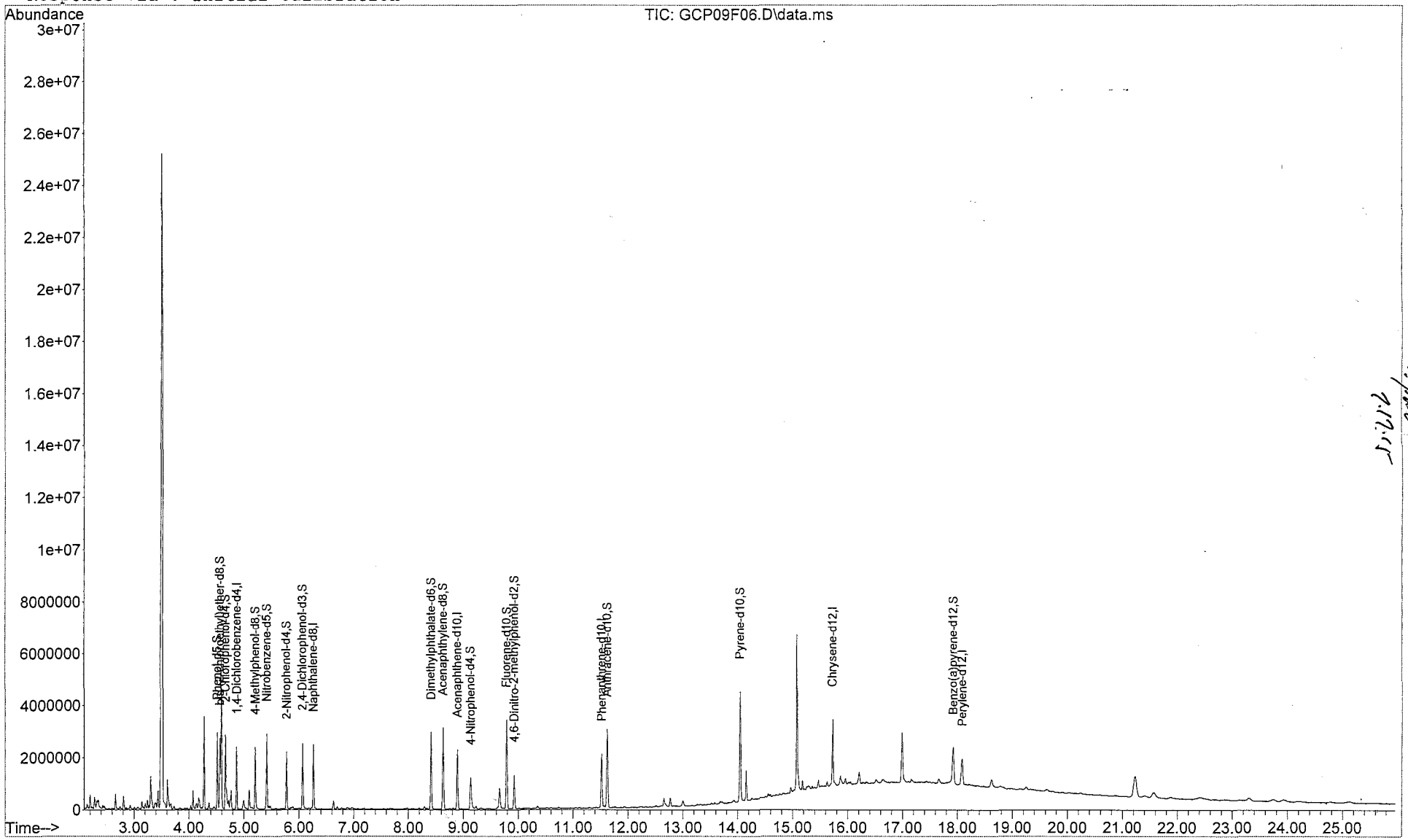
[2] EPA-designated Registry Number.

Quantitation Report

Data File : R:\G\2015\JUL15\10JUL15\GCP09F06.D Vial: 6
Acq On : 07/10/2015 13:54 Operator: TJM
Sample : 1515542006 F9M26 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jul 17 08:46:01 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



GCP09F06.D GSOM01D6.M Fri Jul 17 10:02:15 2015 Page 3

Quantitation Report

Data File : R:\G\2015\JUL15\10JUL15\GCP09F06.D Vial: 6
Acq On : 07/10/2015 13:54 Operator: TJM
Sample : 1515542006 F9M26 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 17 08:46:01 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	313968	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1171933	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	678157	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1131543	20.00 ug/ml
73) Chrysene-d12	15.73	240	1045161	20.00 ug/ml
81) Perylene-d12	18.09	264	680790	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.52	99	819893	30.008ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	605868	28.455ug/mL
7) 2-Chlorophenol-d4	4.66	132	691598	29.980ug/ml
13) 4-Methylphenol-d8	5.20	113	482041	26.378ug/mL
17) Nitrobenzene-d5	5.42	128	312890	30.392ug/ml
21) 2-Nitrophenol-d4	5.77	143	334089	30.701ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	516921	30.507ug/mL
28) 4-Chloroaniline-d4	6.36	131	3627	0.196ug/mL
42) Dimethylphthalate-d6	8.42	166	1445575	33.994ug/mL
45) Acenaphthylene-d8	8.63	160	1785465	30.896ug/mL
50) 4-Nitrophenol-d4	9.13	143	275403	31.746ug/mL
57) Fluorene-d10	9.79	176	1240763	34.166ug/mL
61) 4,6-Dinitro-2-methylphenol	9.93	200	205969	25.645ug/mL
69) Anthracene-d10	11.62	188	1792473	29.871ug/mL
75) Pyrene-d10	14.04	212	1821795	34.928ug/mL
86) Benzo(a)pyrene-d12	17.92	264	960372	29.439ug/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\10JUL15\GCP09F06.D Vial: 6
Acq On : 07/10/2015 13:54 Operator: TJM
Sample : 1515542006 F9M26 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 17 08:46:01 2015 Results File: GSOM01D6.RES

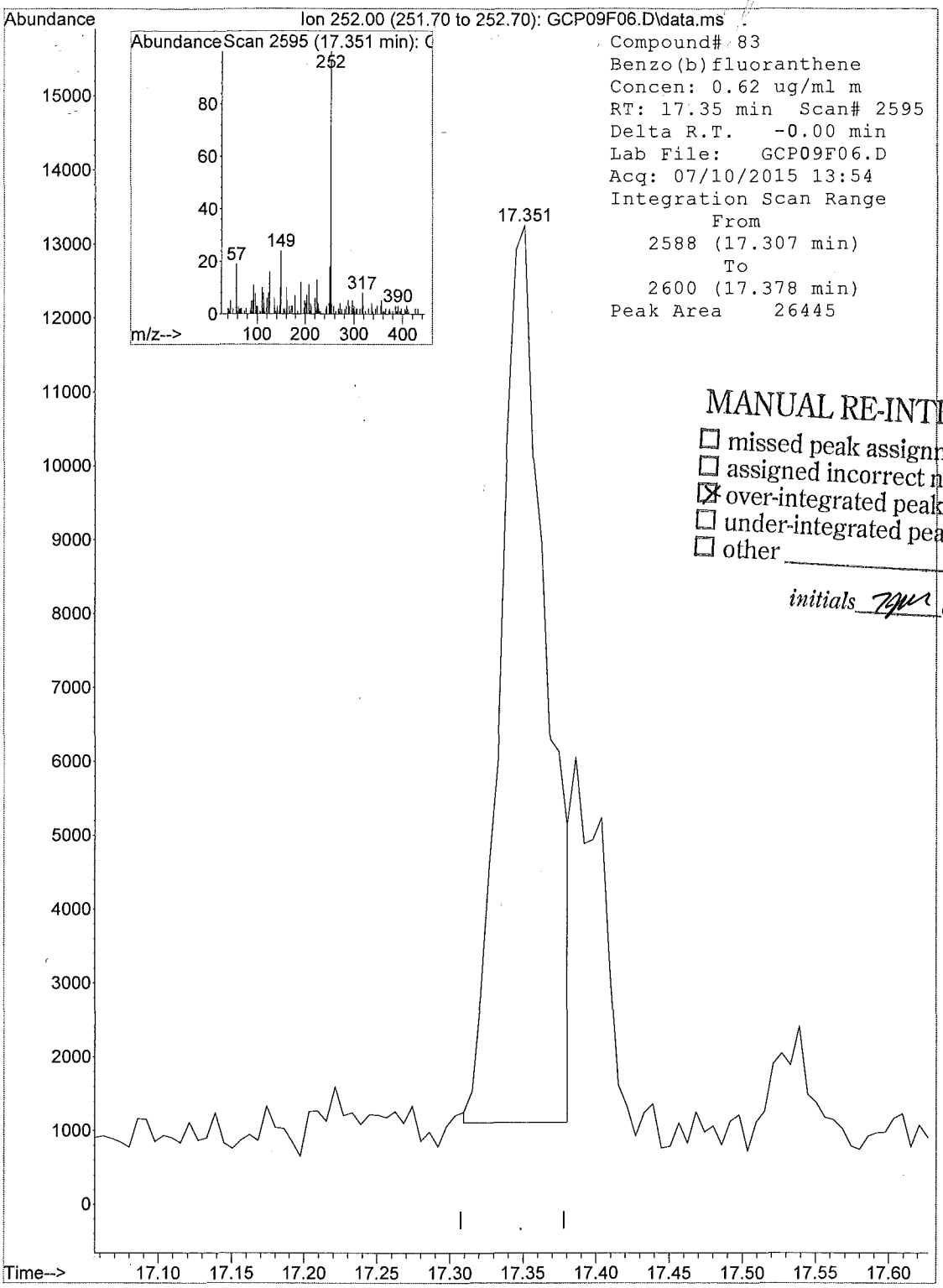
Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration

	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	14.07	202	46640	0.701ug/ml	78
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	15.72	228	26668	0.421ug/ml	82
79)	Chrysene	15.76	228	54416	0.950ug/ml	88
80)	Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	17.35	252	26445	0.620ug/ml m	91
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	

TJM 7.17.15

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

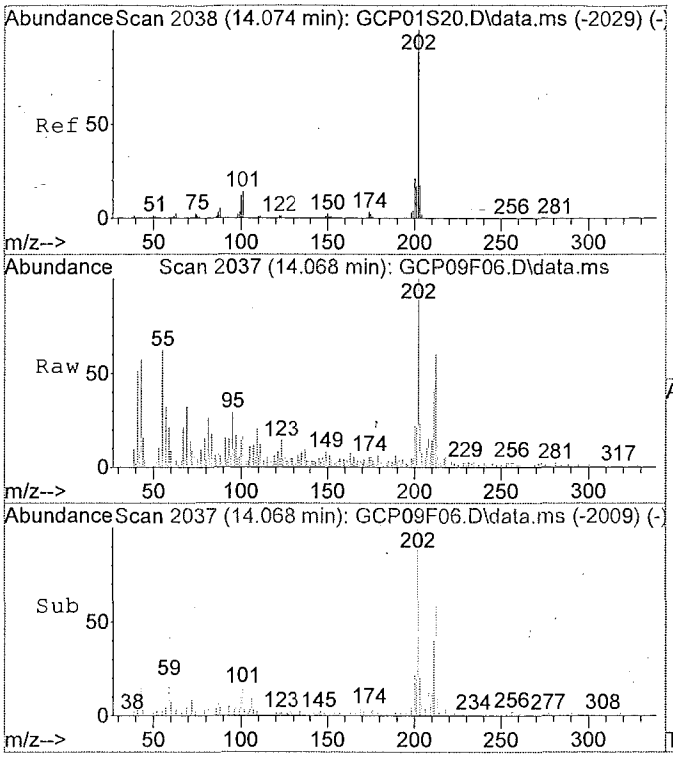
MANUAL INTEGRATION FOR Benzo(b)fluoranthene



MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☒ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

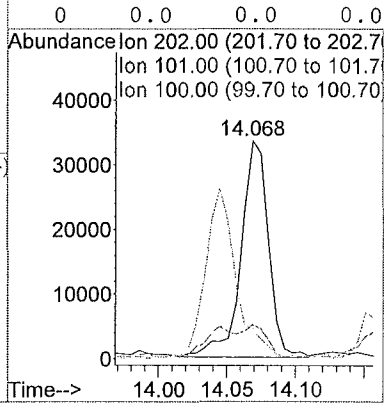
initials TJM *date* 7·17·15

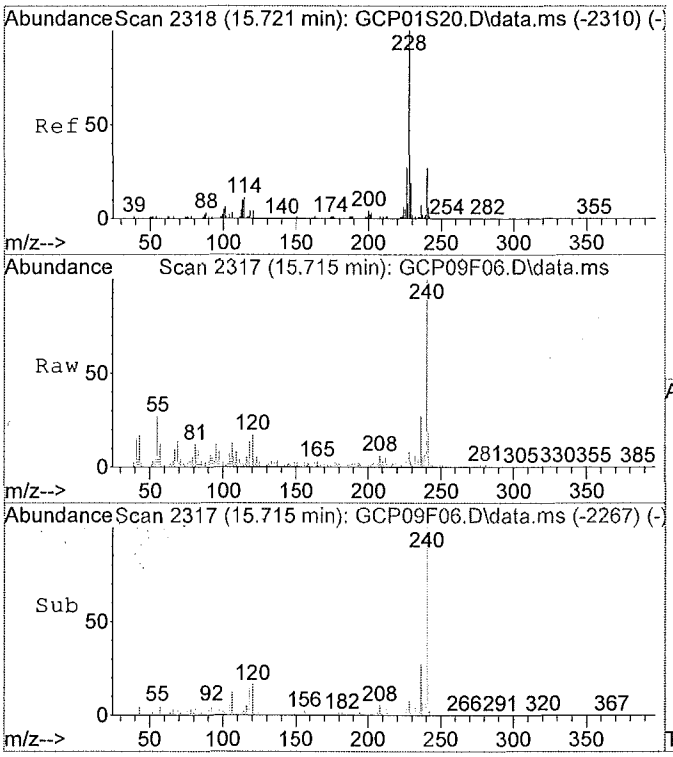


#74
Pyrene
Concen: 0.70 ug/ml
RT: 14.07 min Scan# 2037
Delta R.T. -0.01 min
Lab File: GCP09F06.D
Acq: 07/10/2015 13:54

Tgt Ion:202 Resp: 46640

Ion	Ratio	Lower	Upper
202	100		
101	12.9	12.2	22.7
100	0.0	10.1	18.7#
0	0.0	0.0	0.0

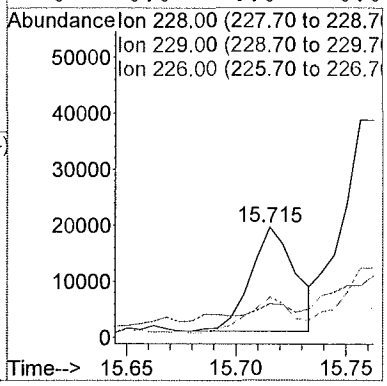


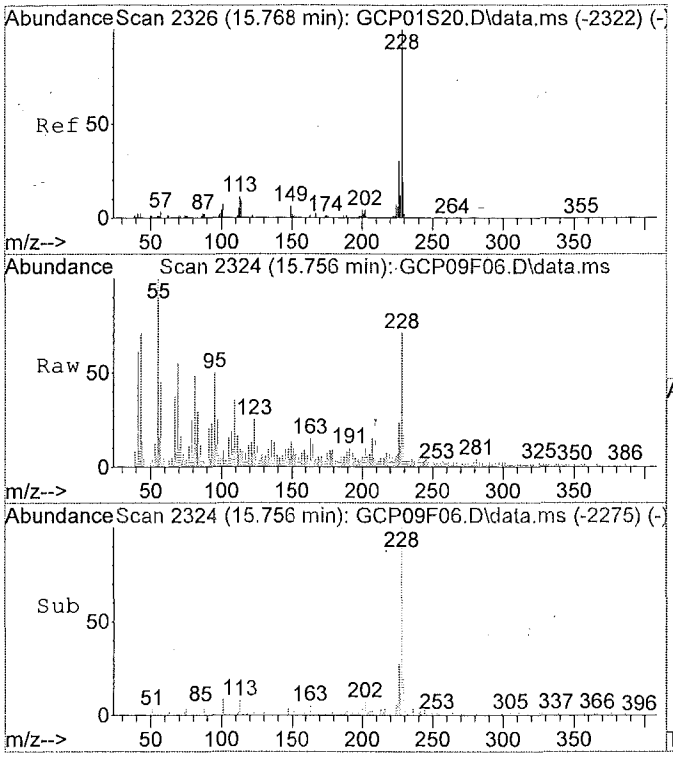


#78
Benzo(a)anthracene
Concen: 0.42 ug/ml
RT: 15.72 min Scan# 2317
Delta R.T. -0.01 min
Lab File: GCP09F06.D
Acq: 07/10/2015 13:54

Tgt Ion:228 Resp: 26668

Ion	Ratio	Lower	Upper
228	100		
229	28.7	13.7	25.5#
226	34.7	18.2	33.8#
0	0.0	0.0	0.0

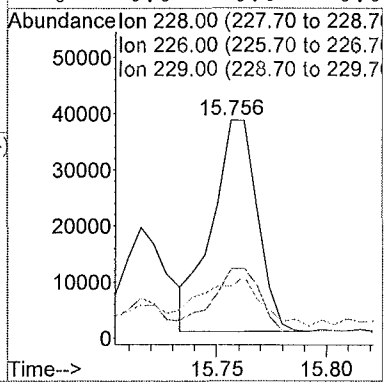


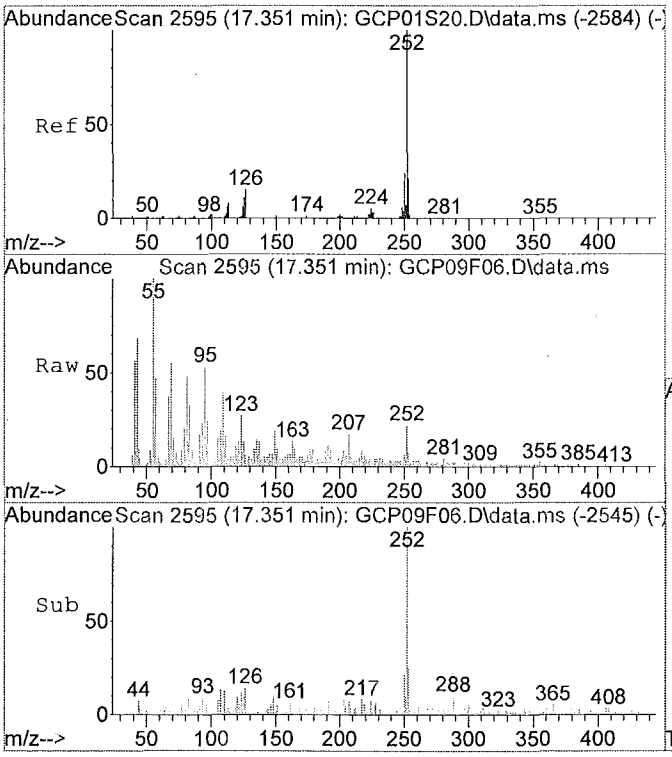


#79
Chrysene
Concen: 0.95 ug/ml
RT: 15.76 min Scan# 2324
Delta R.T. -0.01 min
Lab File: GCP09F06.D
Acq: 07/10/2015 13:54

Tgt Ion:228 Resp: 54416

Ion	Ratio	Lower	Upper
228	100		
226	31.2	20.1	37.3
229	30.0	13.7	25.5#
0	0.0	0.0	0.0

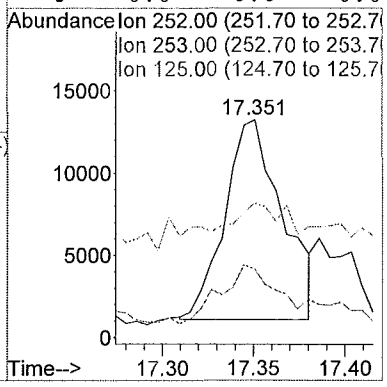




#83
Benzo(b)fluoranthene
Concen: 0.62 ug/ml m
RT: 17.35 min Scan# 2595
Delta R.T. -0.00 min
Lab File: GCP09F06.D
Acq: 07/10/2015 13:54

Tgt Ion:252 Resp: 26445

Ion	Ratio	Lower	Upper
252	100		
253	27.1	15.1	28.1
125	11.4	10.6	19.8
0	0.0	0.0	0.0



Library Search Compound Report

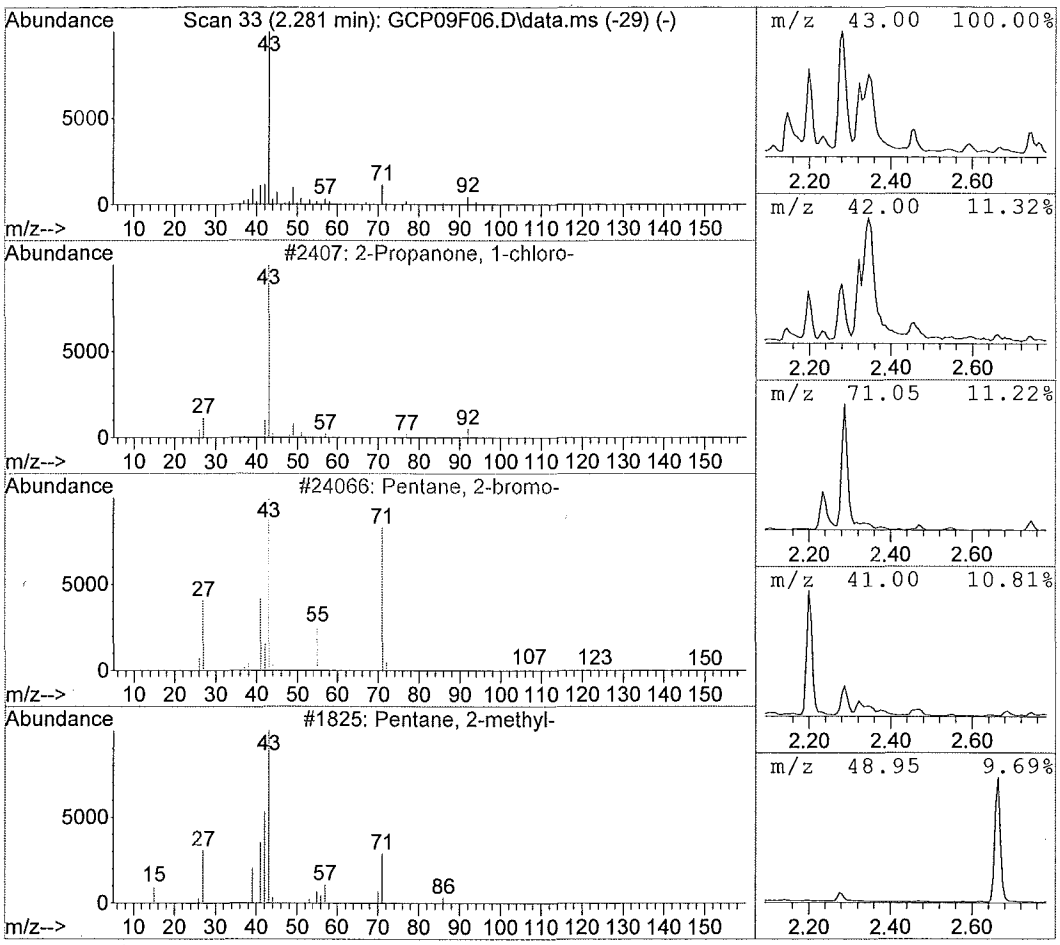
Data File : R:\G\2015\JUL15\10JUL15\GCP09F06.D
Acq On : 07/10/2015 13:54
Sample : 1515542006 F9M26
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 6
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	4.84 ug/ml	566354	1,4-Dichlorobenzene-d4	2340749

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propanone, 1-chloro-	2407	000078-95-5	74.00
2	Pentane, 2-bromo-	24066	000107-81-3	43.00
3	Pentane, 2-methyl-	1825	000107-83-5	9.00
4	Acetic acid, sodium salt	1135	000127-09-3	9.00
5	2-Pentanone	1706	000107-87-9	9.00



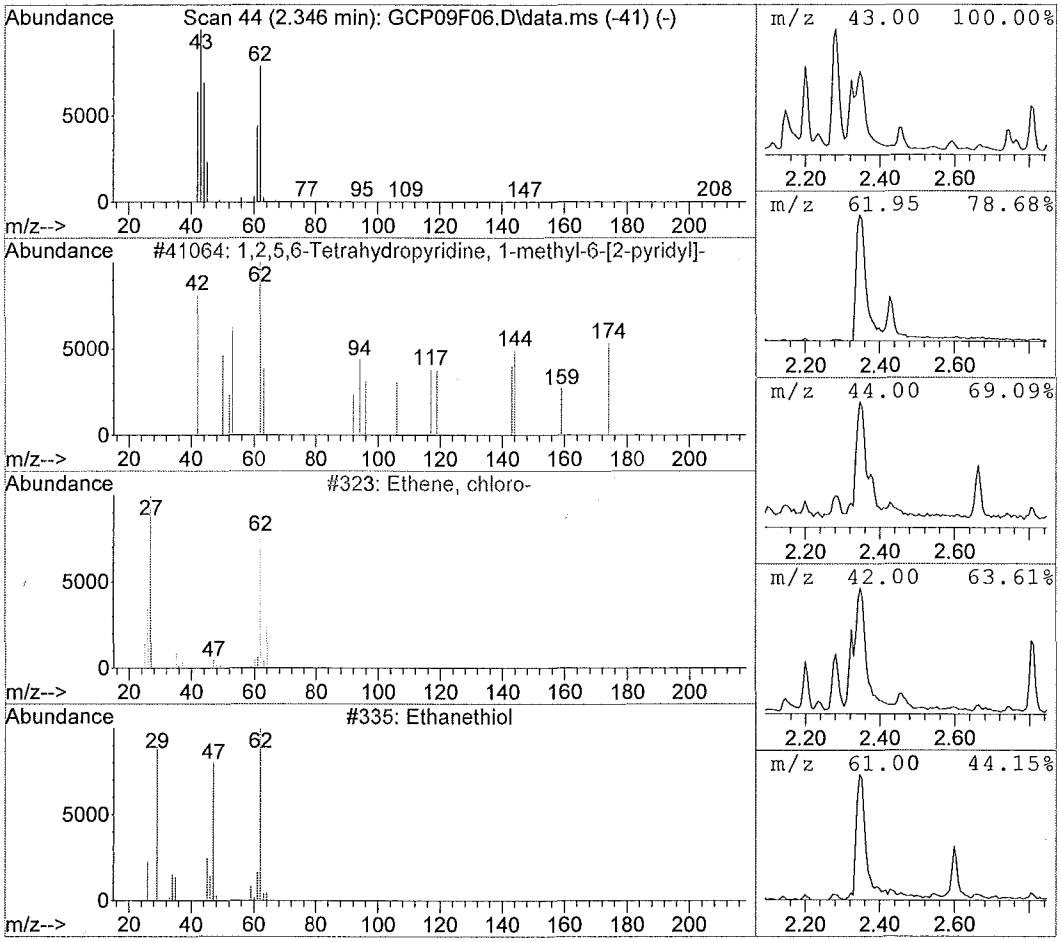
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP09F06.D Vial: 6
Acq On : 07/10/2015 13:54 Operator: TJM
Sample : 1515542006 F9M26 Inst : 5975-G
Misc : . SOIL SOM Injection volume : luL
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	5.15 ug/ml	603053	1,4-Dichlorobenzene-d4	2340749

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2,5,6-Tetrahydropyridine, 1-methy	41064	1000132-27-6	42.00
2	Ethene, chloro-	323	000075-01-4	9.00
3	Ethanethiol	335	000075-08-1	9.00
4	Dimethyl sulfide	336	000075-18-3	9.00
5	N-Acetyl-l-methioninamide	53327	1000130-47-4	9.00



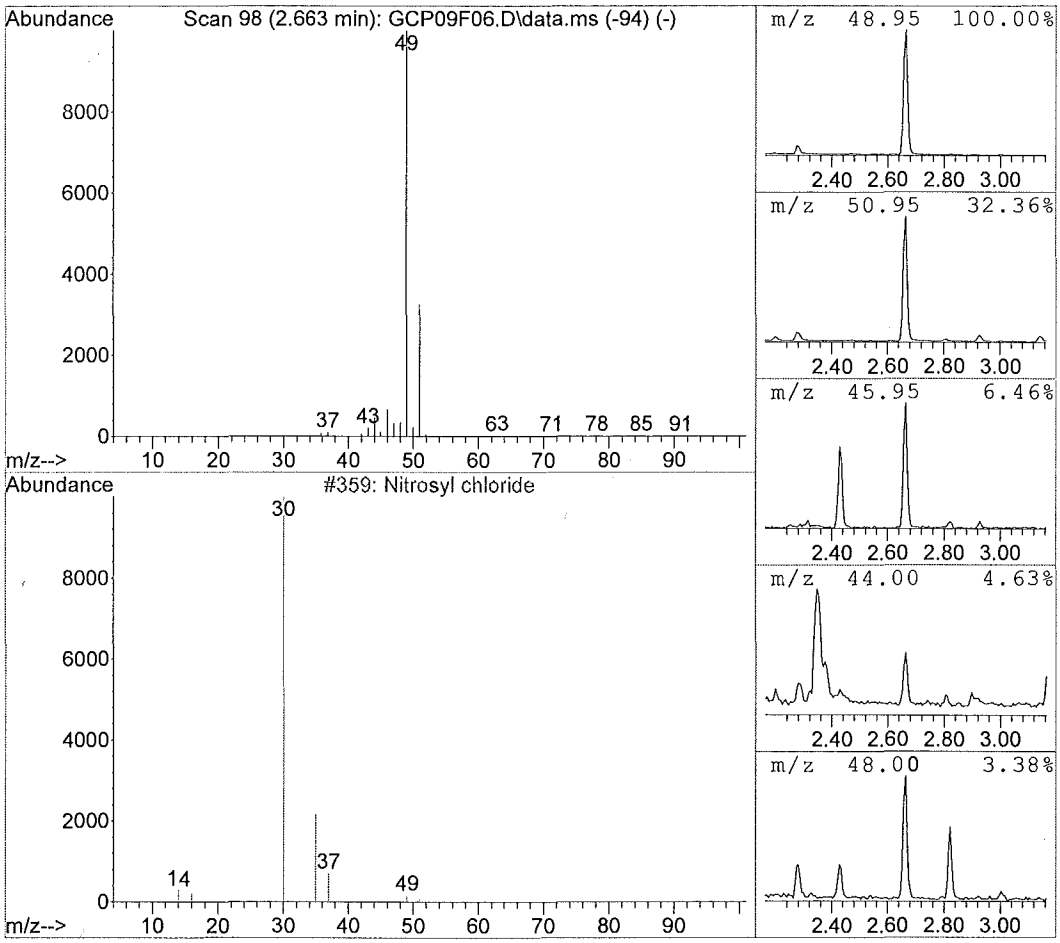
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP09F06.D Vial: 6
Acq On : 07/10/2015 13:54 Operator: TJM
Sample : 1515542006 F9M26 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
2.66	4.71 ug/ml	551782	1,4-Dichlorobenzene-d4	2340749

Hit# of 1	Tentative ID	Ref#	CAS#	Qual
1	Nitrosyl chloride	359	002696-92-6	1.00



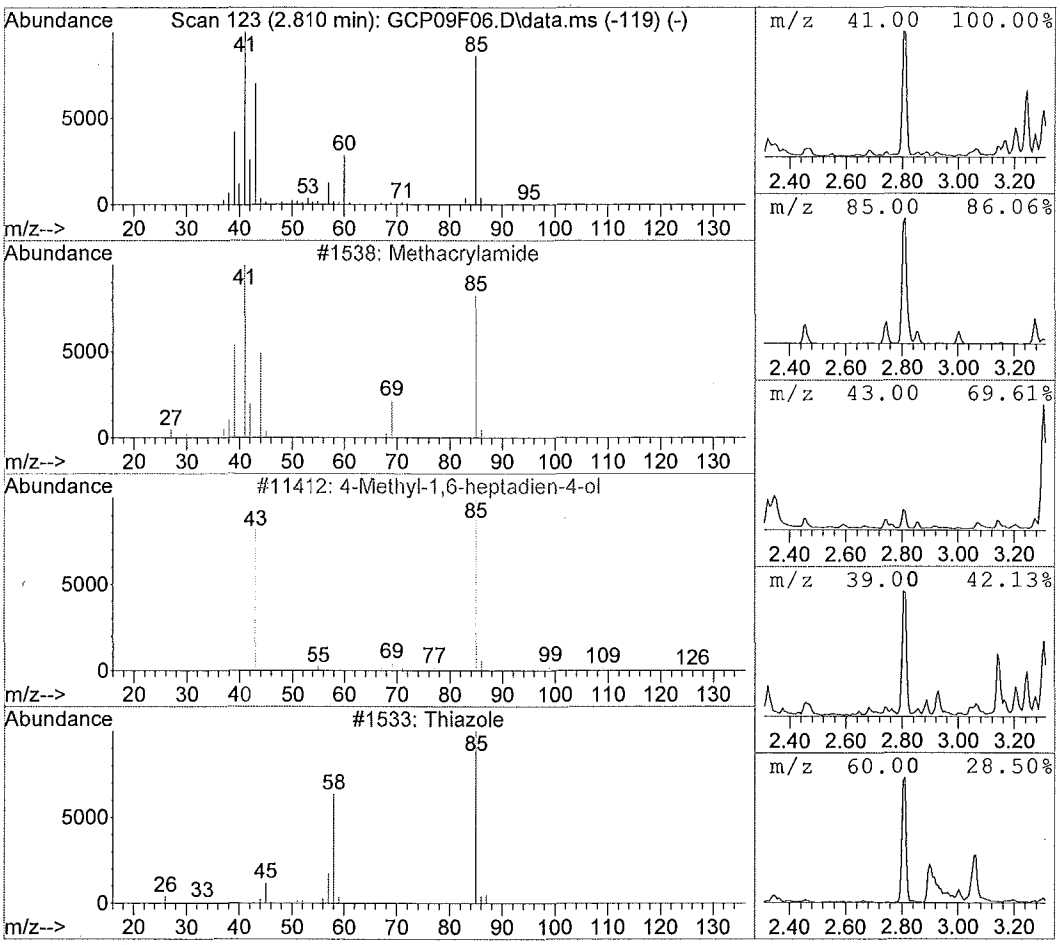
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP09F06.D Vial: 6
Acq On : 07/10/2015 13:54 Operator: TJM
Sample : 1515542006 F9M26 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	4.45 ug/ml	521134	1,4-Dichlorobenzene-d4	2340749

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Methacrylamide	1538	000079-39-0	36.00
2	4-Methyl-1,6-heptadien-4-ol	11412	025201-40-5	25.00
3	Thiazole	1533	000288-47-1	25.00
4	2-Pyrrolidinone	1544	000616-45-5	23.00
5	2,2-Dimethylvaleroyl chloride	23063	015721-22-9	23.00

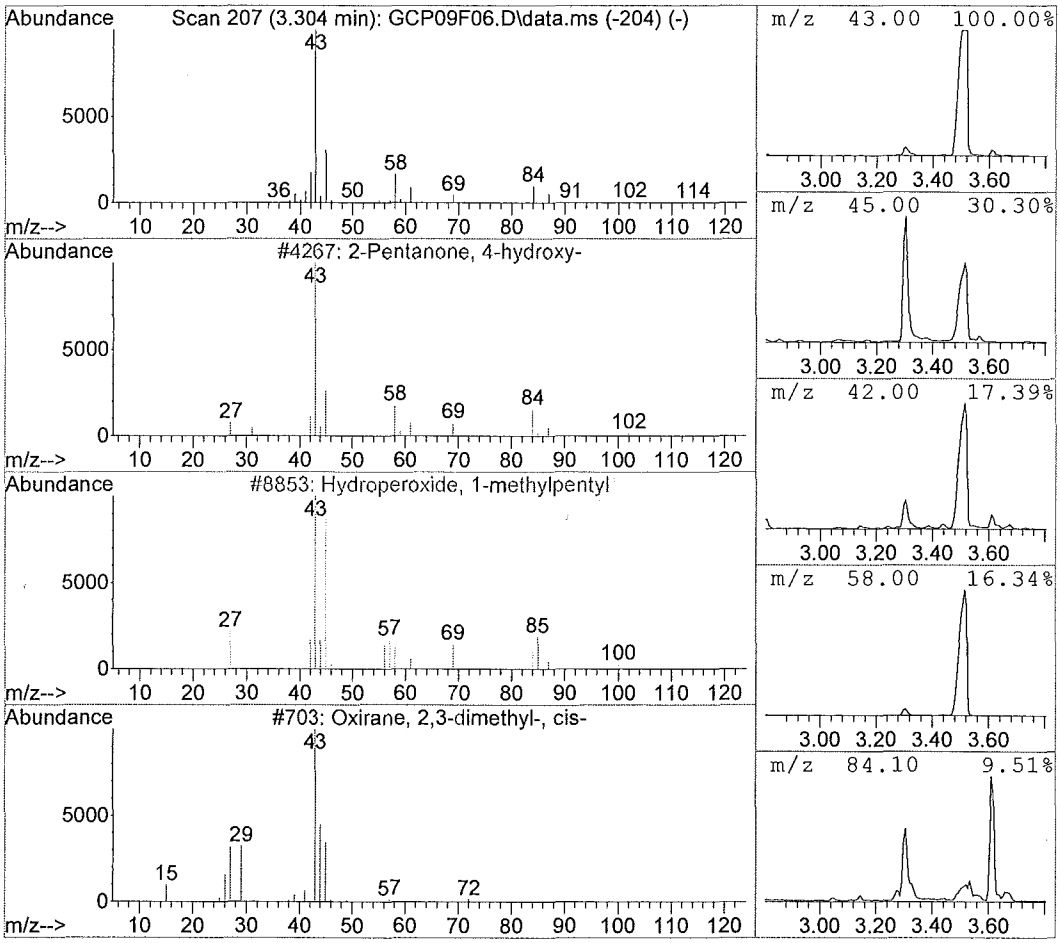


Data File : R:\G\2015\JUL15\10JUL15\GCP09F06.D Vial: 6
Acq On : 07/10/2015 13:54 Operator: TJM
Sample : 1515542006 F9M26 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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	14.00 ug/ml	1638600	1,4-Dichlorobenzene-d4	2340749

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	56.00
2	Hydroperoxide, 1-methylpentyl	8853	024254-55-5	33.00
3	Oxirane, 2,3-dimethyl-, cis-	703	001758-33-4	17.00
4	2,3-Epoxybutane	677	003266-23-7	10.00
5	Acetone	214	000067-64-1	9.00



Library Search Compound Report

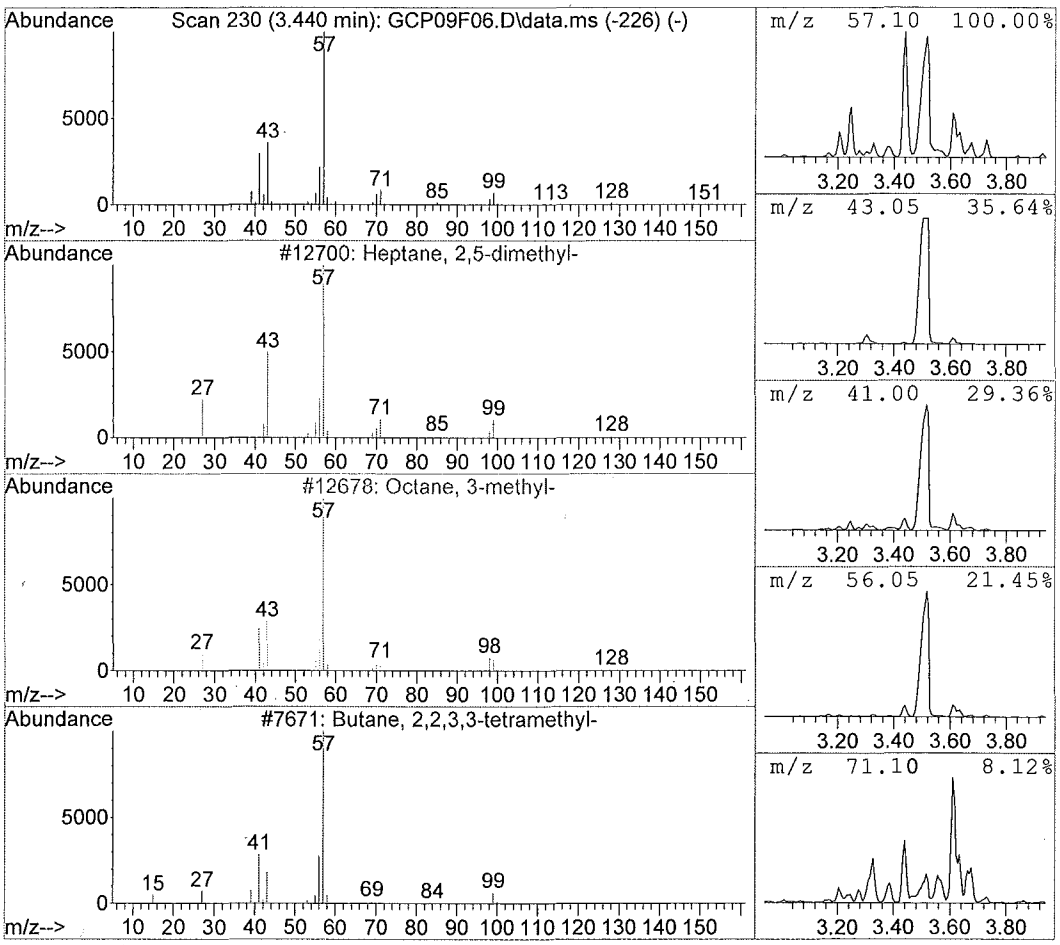
Data File : R:\G\2015\JUL15\10JUL15\GCP09F06.D Vial: 6
Acq On : 07/10/2015 13:54 Operator: TJM
Sample : 1515542006 F9M26 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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
3.44	5.97 ug/ml	698832	1,4-Dichlorobenzene-d4	2340749

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,5-dimethyl-	12700	002216-30-0	86.00
2	Octane, 3-methyl-	12678	002216-33-3	78.00
3	Butane, 2,2,3,3-tetramethyl-	7671	000594-82-1	59.00
4	Butane, 1-chloro-2-methyl-, (S)-	5041	040560-29-0	53.00
5	Pentane, 3-ethyl-2,2-dimethyl-	12748	016747-32-3	47.00

BA



: 00218

Library Search Compound Report

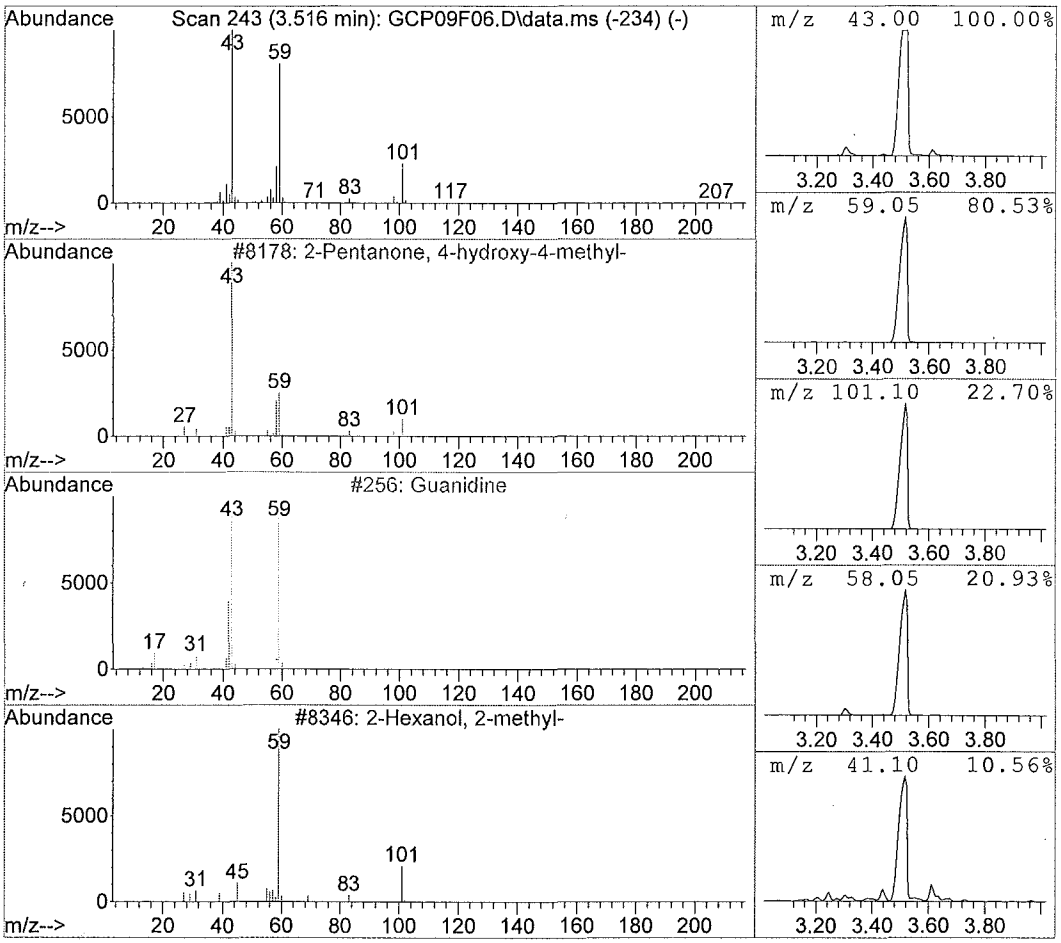
Data File : R:\G\2015\JUL15\10JUL15\GCP09F06.D
Acq On : 07/10/2015 13:54
Sample : 1515542006 F9M26
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 6
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
3.52	414.89 ug/ml	48557478	1,4-Dichlorobenzene-d4	2340749

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	2-Hexanol, 2-methyl-	8346	000625-23-0	36.00
4	3-Octanol	13639	000589-98-0	36.00
5	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00



Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP09F06.D
Acq On : 07/10/2015 13:54
Sample : 1515542006 F9M26
Misc : . SOIL SOM
MS Integration Params: rteint.p

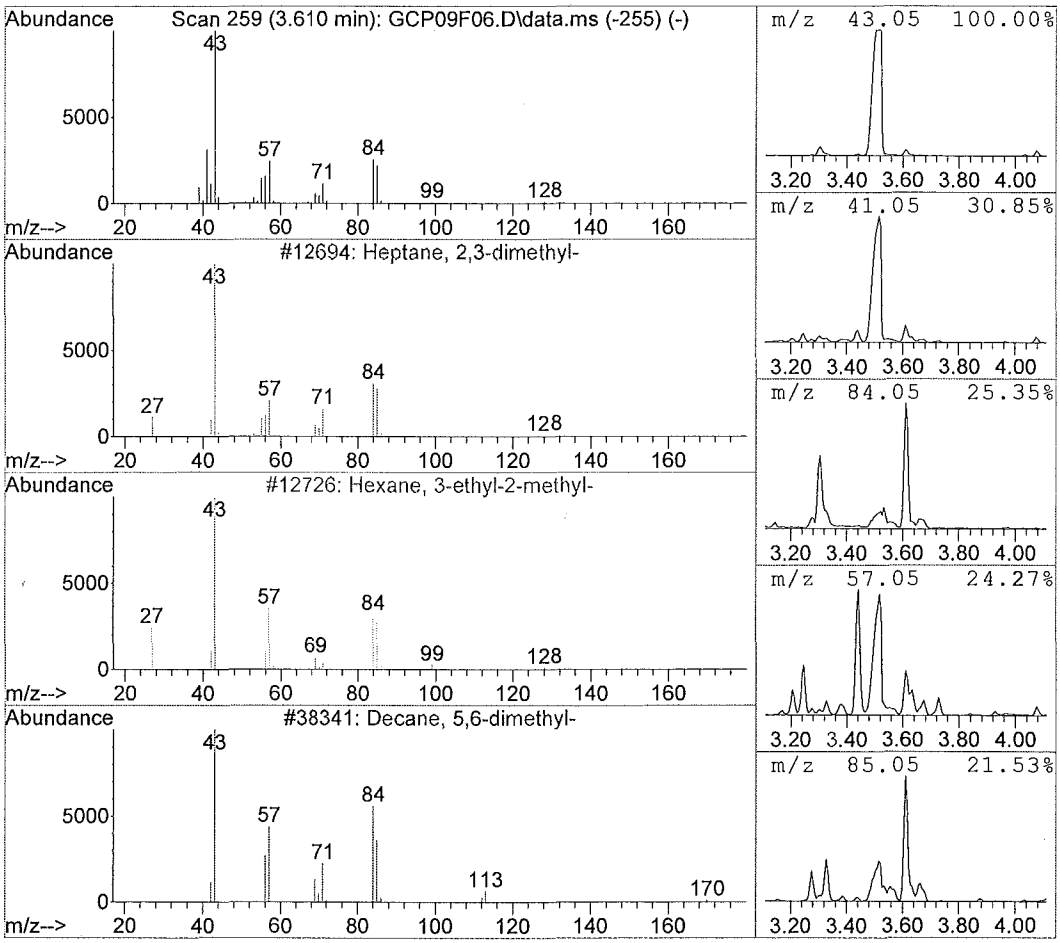
Vial: 6
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

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
3.61	9.76 ug/ml	1142134	1,4-Dichlorobenzene-d4	2340749

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12694	003074-71-3	91.00
2	Hexane, 3-ethyl-2-methyl-	12726	016789-46-1	83.00
3	Decane, 5,6-dimethyl-	38341	001636-43-7	72.00
4	Hexane, 3-ethyl-	7621	000619-99-8	59.00
5	Heptane, 2,4-dimethyl-	12695	002213-23-2	53.00

BA



00212

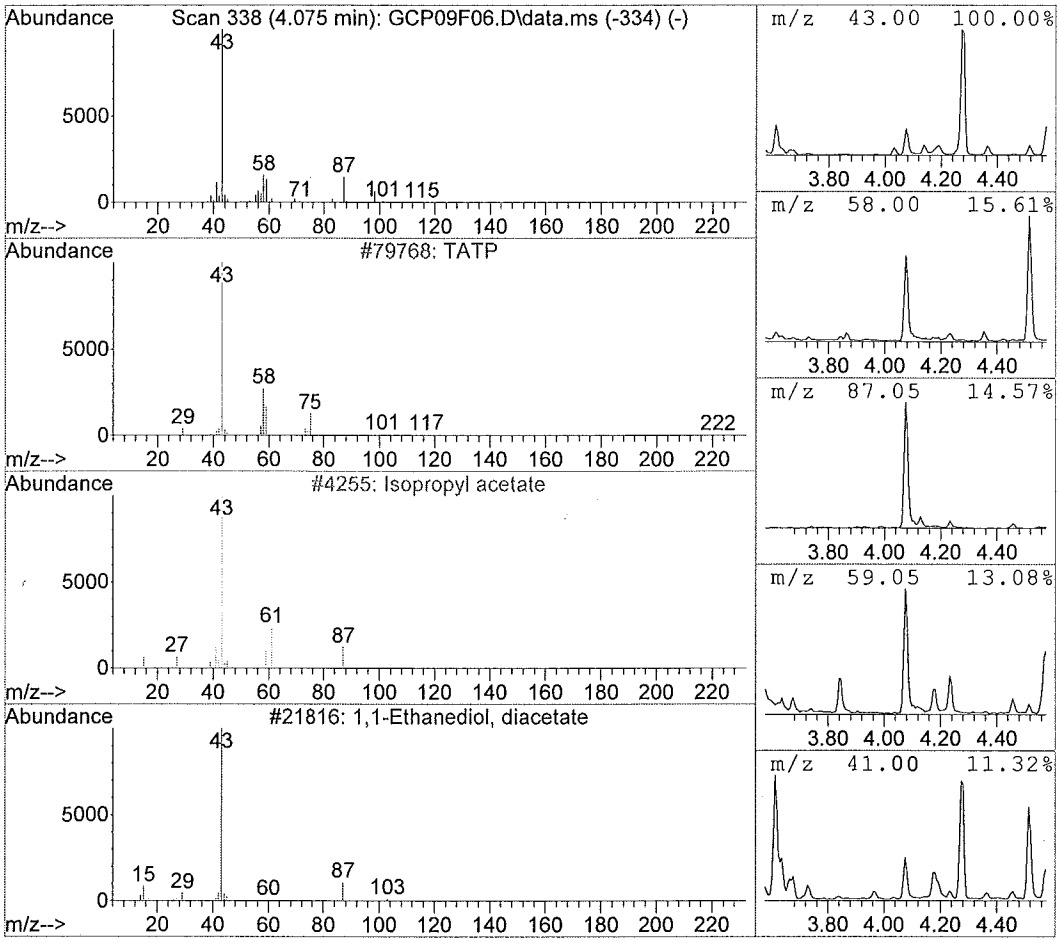
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP09F06.D Vial: 6
Acq On : 07/10/2015 13:54 Operator: TJM
Sample : 1515542006 F9M26 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	5.96 ug/ml	697589	1,4-Dichlorobenzene-d4	2340749

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	TATP	79768	017088-37-8	40.00
2	Isopropyl acetate	4255	000108-21-4	25.00
3	1,1-Ethanediol, diacetate	21816	000542-10-9	17.00
4	1-Butanamine, 2-methyl-	1912	000096-15-1	9.00
5	S-(-)-2-Methylbutylamine	1929	020626-52-2	9.00

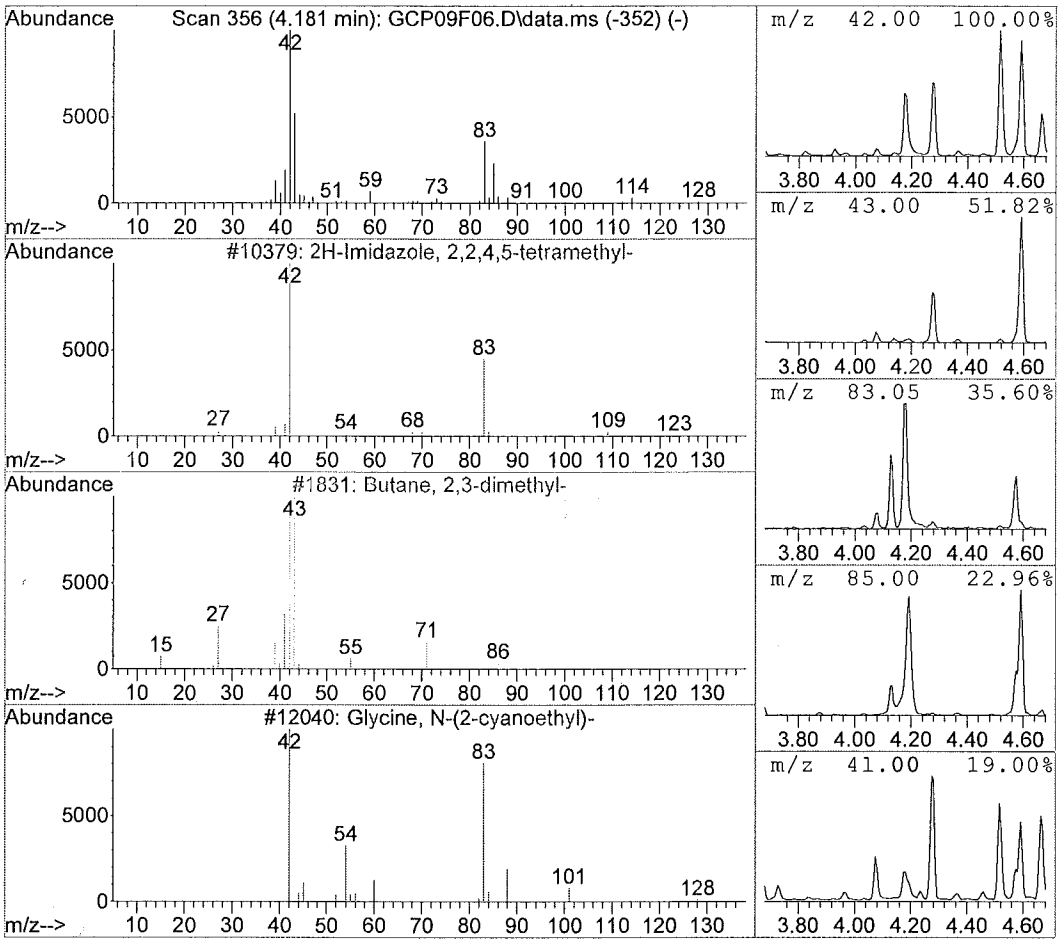


Data File : R:\G\2015\JUL15\10JUL15\GCP09F06.D Vial: 6
Acq On : 07/10/2015 13:54 Operator: TJM
Sample : 1515542006 F9M26 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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
4.18	6.29 ug/ml	736280	1,4-Dichlorobenzene-d4	2340749

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2H-Imidazole, 2,2,4,5-tetramethyl-	10379	1000197-39-7	36.00
2	Butane, 2,3-dimethyl-	1831	000079-29-8	9.00
3	Glycine, N-(2-cyanoethyl)-	12040	003088-42-4	9.00
4	2-Acetyl-2-methyltetrahydrofuran	12272	032318-87-9	9.00
5	2-Oxetanone, 4-methyl-	1675	003068-88-0	9.00



Library Search Compound Report

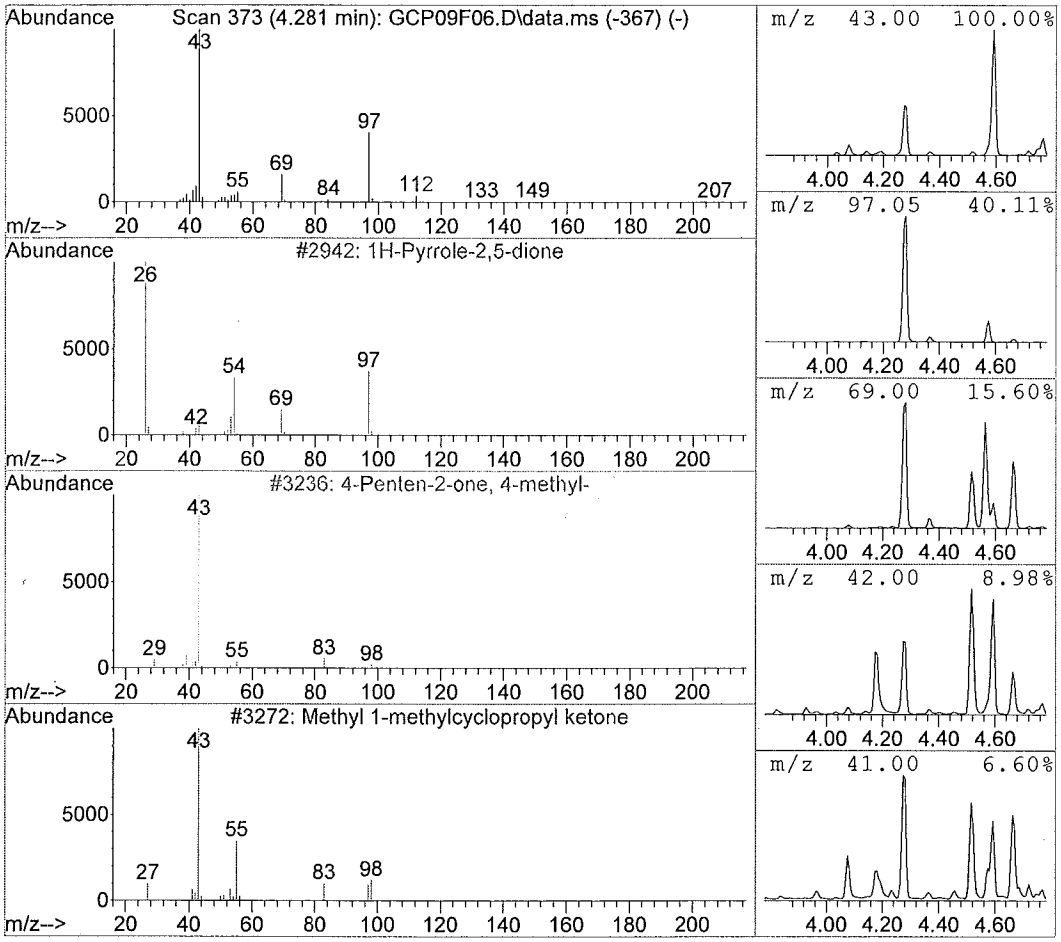
Data File : R:\G\2015\JUL15\10JUL15\GCP09F06.D
Acq On : 07/10/2015 13:54
Sample : 1515542006 F9M26
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 6
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	31.59 ug/ml	3697324	1,4-Dichlorobenzene-d4	2340749

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	Methyl 1-methylcyclopropyl ketone	3272	001567-75-5	9.00
4	2,6,6-Trimethyl-bicyclo[3.1.1]hept-	26216	069460-11-3	9.00
5	5-Hexen-2-one	3158	000109-49-9	9.00



Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP09F06.D
Acq On : 07/10/2015 13:54
Sample : 1515542006 F9M26
Misc : . SOIL SOM
MS Integration Params: rteint.p

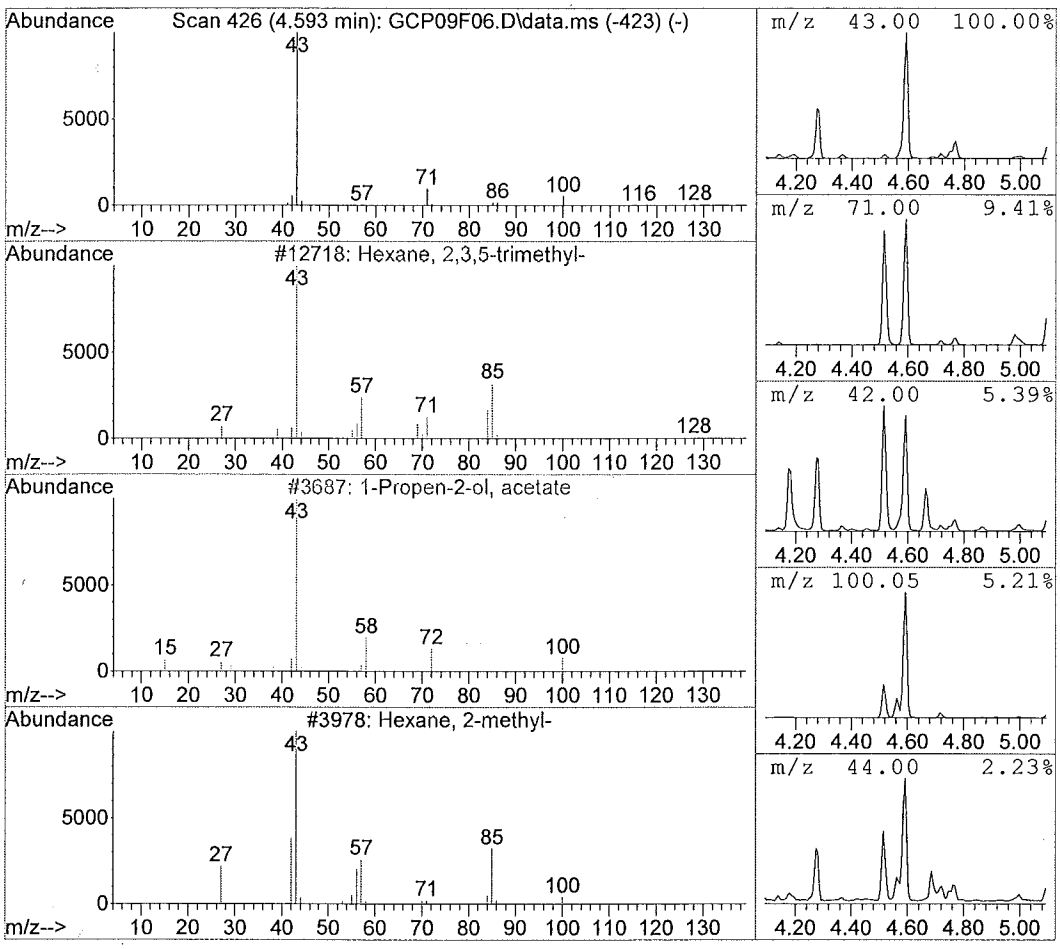
Vial: 6
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

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	45.22 ug/ml	5292420	1,4-Dichlorobenzene-d4	2340749

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	7.00
2	1-Propen-2-ol, acetate	3687	000108-22-5	5.00
3	Hexane, 2-methyl-	3978	000591-76-4	5.00
4	Heptane, 2,4-dimethyl-	12695	002213-23-2	5.00
5	2-Pentanone, 3-methyl-	3864	000565-61-7	5.00

BA



: 00216

Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP09F06.D
Acq On : 07/10/2015 13:54
Sample : 1515542006 F9M26
Misc : . SOIL SOM
MS Integration Params: rteint.p

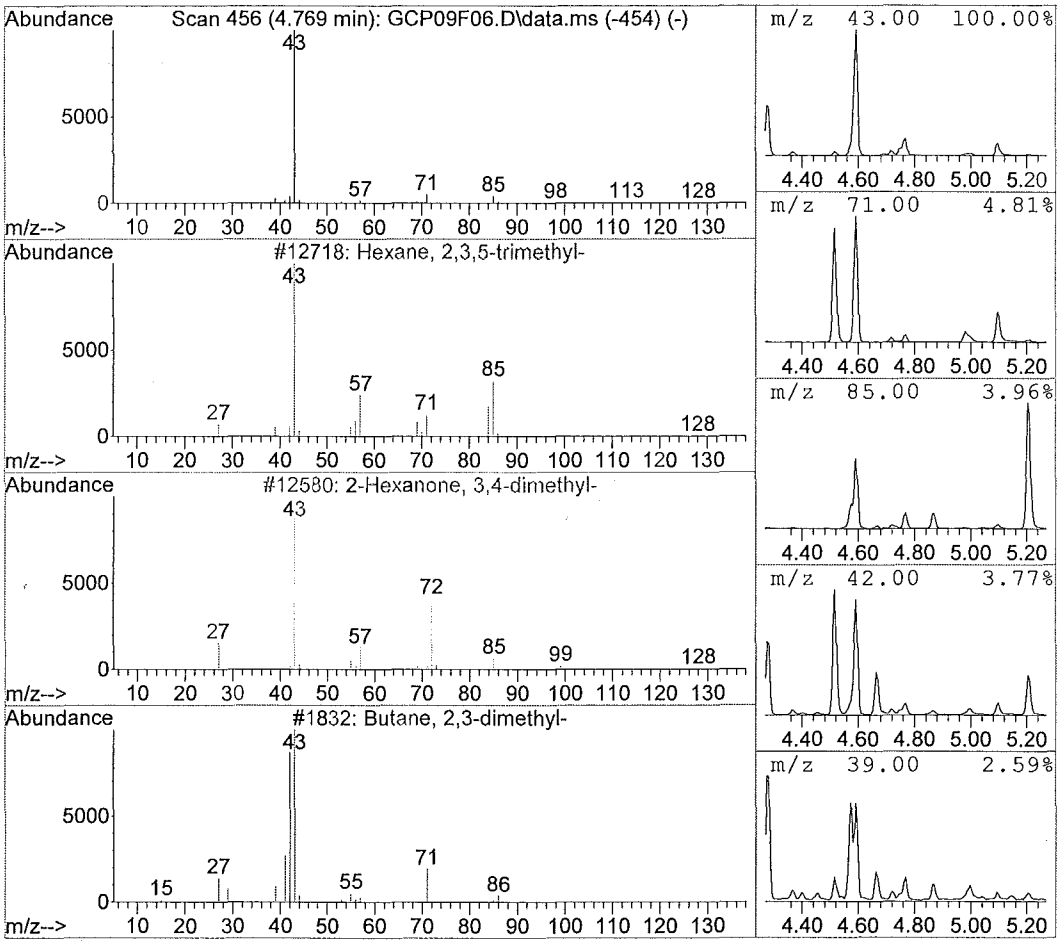
Vial: 6
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

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	5.47 ug/ml	640674	1,4-Dichlorobenzene-d4	2340749

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	5.00
2	2-Hexanone, 3,4-dimethyl-	12580	019550-10-8	4.00
3	Butane, 2,3-dimethyl-	1832	000079-29-8	3.00
4	Pyrrolidine, 3-methyl-	1577	034375-89-8	3.00
5	Octane, 4-methyl-	12674	002216-34-4	2.00

BA



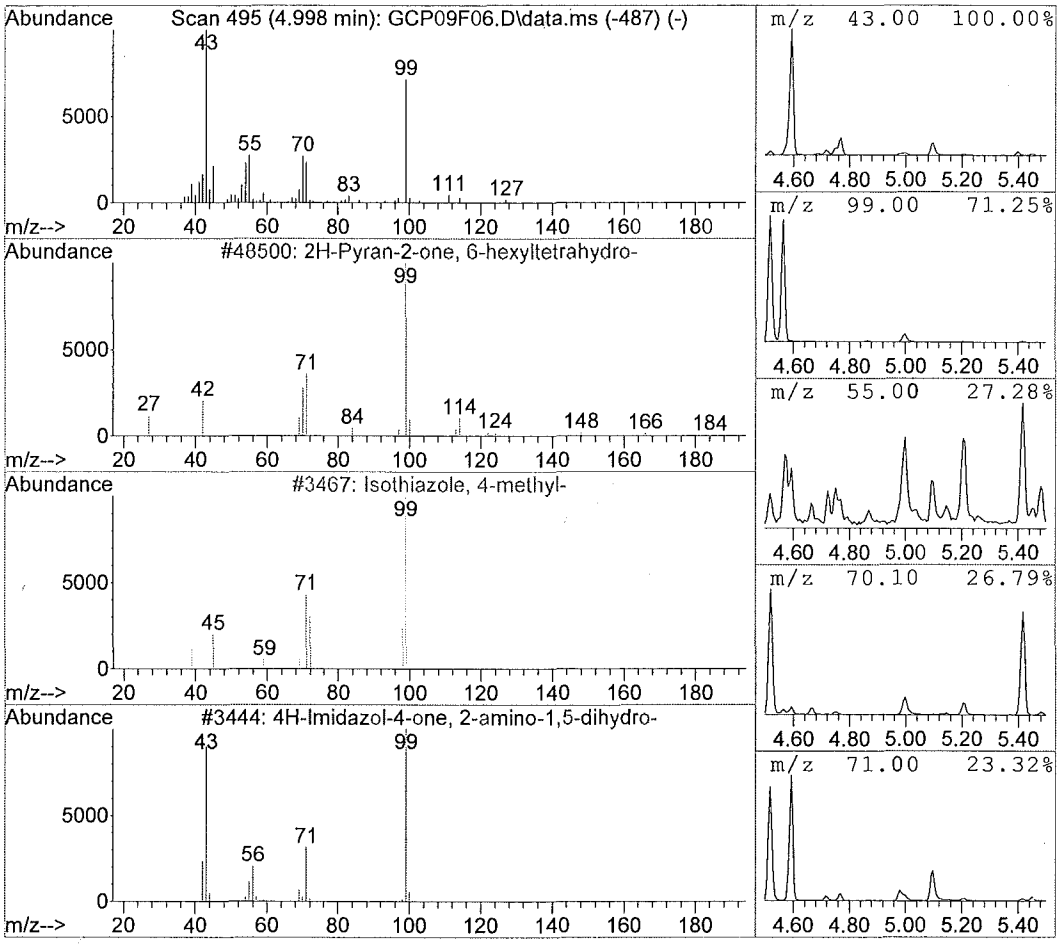
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP09F06.D Vial: 6
Acq On : 07/10/2015 13:54 Operator: TJM
Sample : 1515542006 F9M26 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
5.00	4.91 ug/ml	574373	1,4-Dichlorobenzene-d4	2340749

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2H-Pyran-2-one, 6-hexyltetrahydro-	48500	000710-04-3	37.00
2	Isothiazole, 4-methyl-	3467	000693-90-3	32.00
3	4H-Imidazol-4-one, 2-amino-1,5-dihy	3444	000503-86-6	25.00
4	3,3-Dimethyl-2-pentanol	8368	019781-24-9	25.00
5	.beta.-Acetylacrylic acid	7122	004743-82-2	23.00



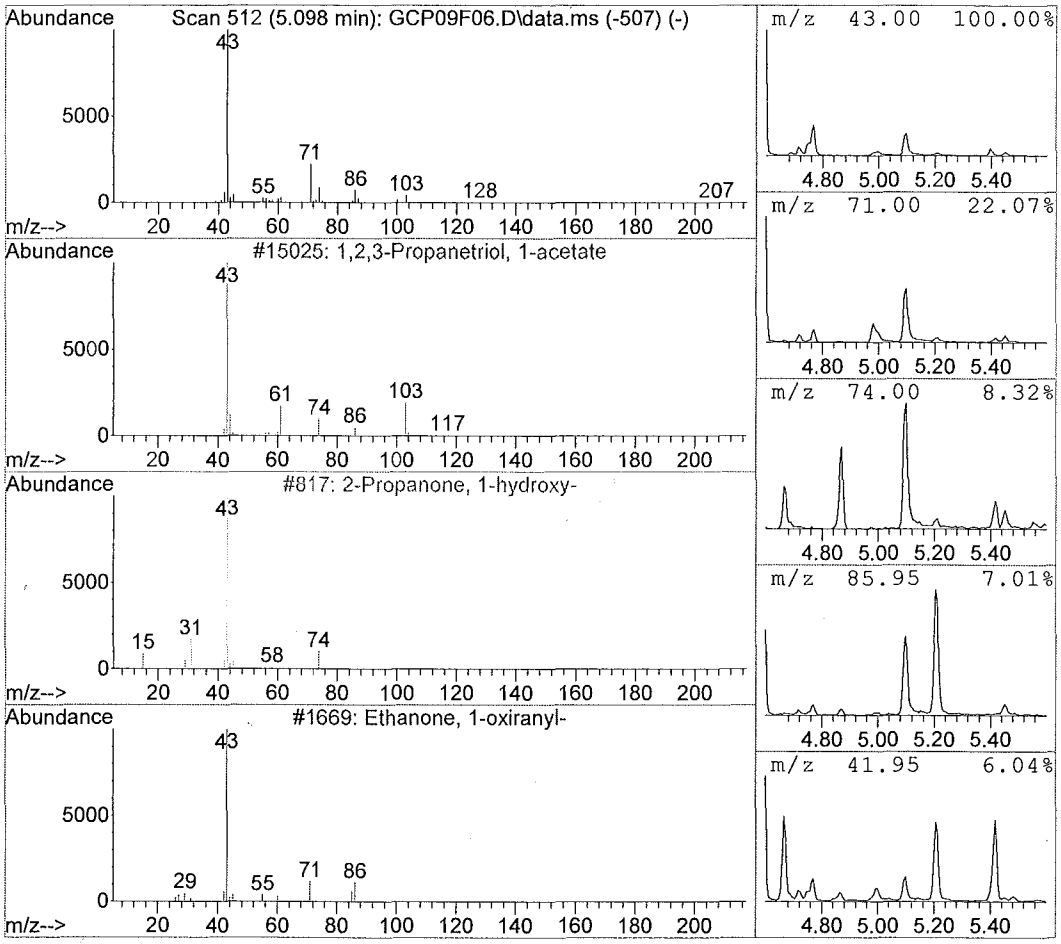
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP09F06.D Vial: 6
Acq On : 07/10/2015 13:54 Operator: TJM
Sample : 1515542006 F9M26 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
5.10	7.15 ug/ml	836347	1,4-Dichlorobenzene-d4	2340749

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	Ethanone, 1-oxiranyl-	1669	004401-11-0	10.00
4	1,2-Epoxy-3-propyl acetate	8036	006387-89-9	9.00
5	Thioacetic acid	914	000507-09-5	9.00



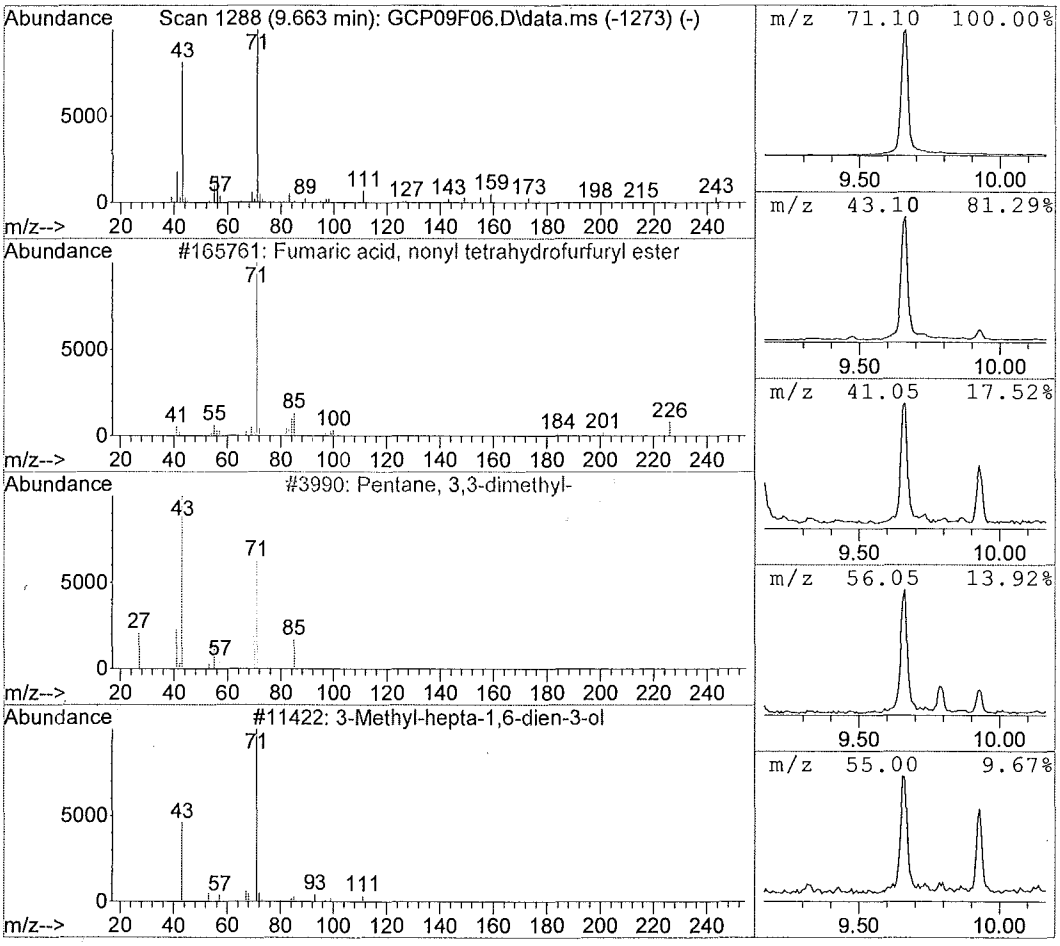
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP09F06.D Vial: 6
Acq On : 07/10/2015 13:54 Operator: TJM
Sample : 1515542006 F9M26 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	9.57 ug/ml	1418099	Acenaphthene-d10	2962910

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Fumaric acid, nonyl tetrahydrofurfu	165761	1000330-58-3	50.00
2	Pentane, 3,3-dimethyl-	3990	000562-49-2	50.00
3	3-Methyl-hepta-1,6-dien-3-ol	11422	034780-69-3	50.00
4	Pentanoic acid, 2,2,4-trimethyl-3-c	132856	1000140-77-5	50.00
5	Propanoic acid, 2-methyl-, 1-(1,1-d	132857	074381-40-1	42.00



Library Search Compound Report

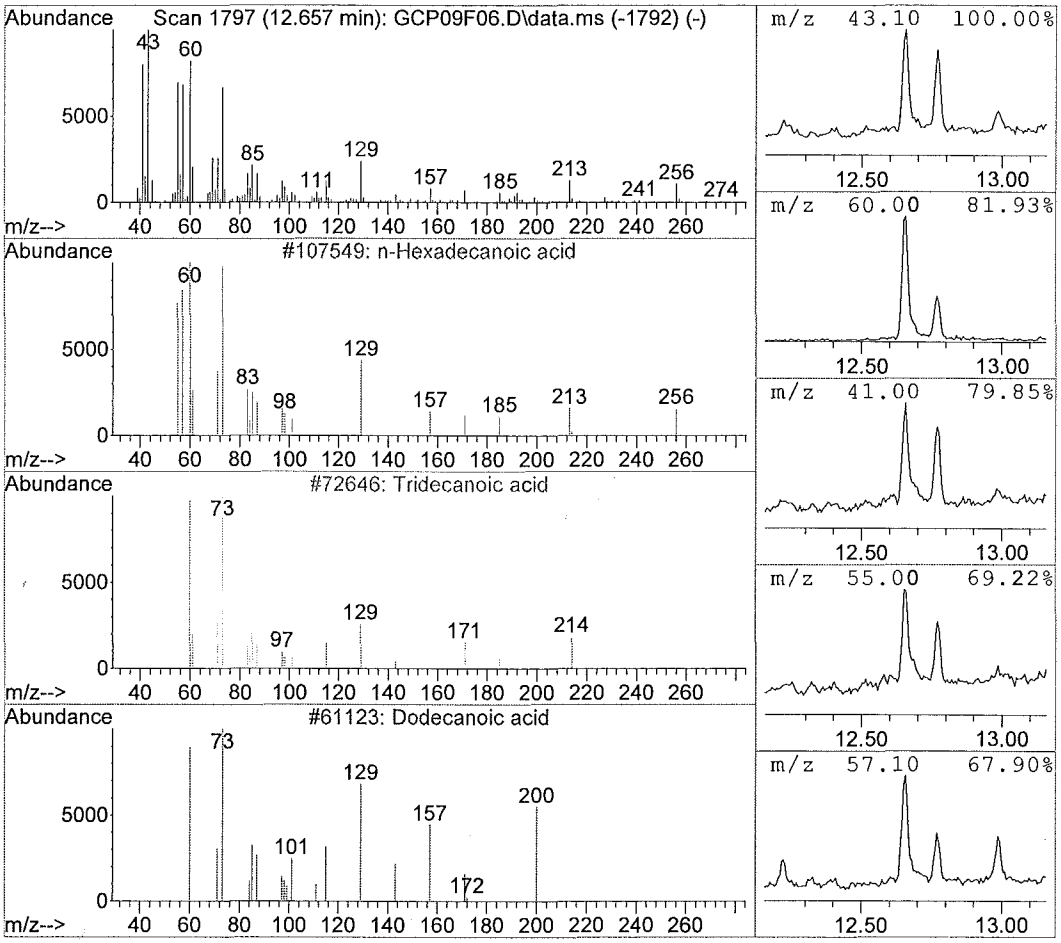
Data File : R:\G\2015\JUL15\10JUL15\GCP09F06.D
Acq On : 07/10/2015 13:54
Sample : 1515542006 F9M26
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 6
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	3.22 ug/ml	486308	Phenanthrene-d10	3016102

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	n-Hexadecanoic acid	107549	000057-10-3	98.00
2	Tridecanoic acid	72646	000638-53-9	72.00
3	Dodecanoic acid	61123	000143-07-7	70.00
4	Undecanoic acid	50051	000112-37-8	64.00
5	Pentadecanoic acid	95855	001002-84-2	49.00



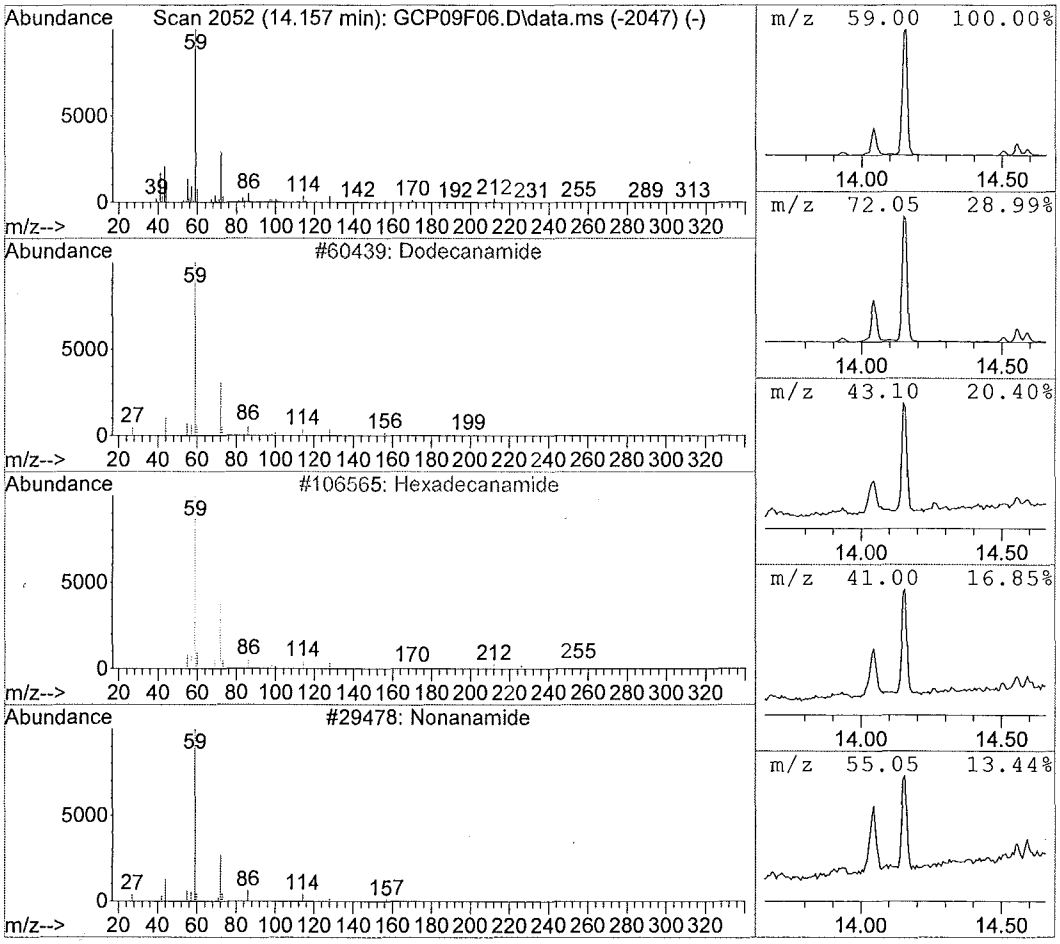
Data File : R:\G\2015\JUL15\10JUL15\GCP09F06.D
Acq On : 07/10/2015 13:54
Sample : 1515542006 F9M26
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 6
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
14.16	9.70 ug/ml	1393671	Chrysene-d12	2872120

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	86.00
4	Tetradecanamide	83609	000638-58-4	78.00
5	Undecanamide, 11-bromo-	112862	005875-26-3	78.00



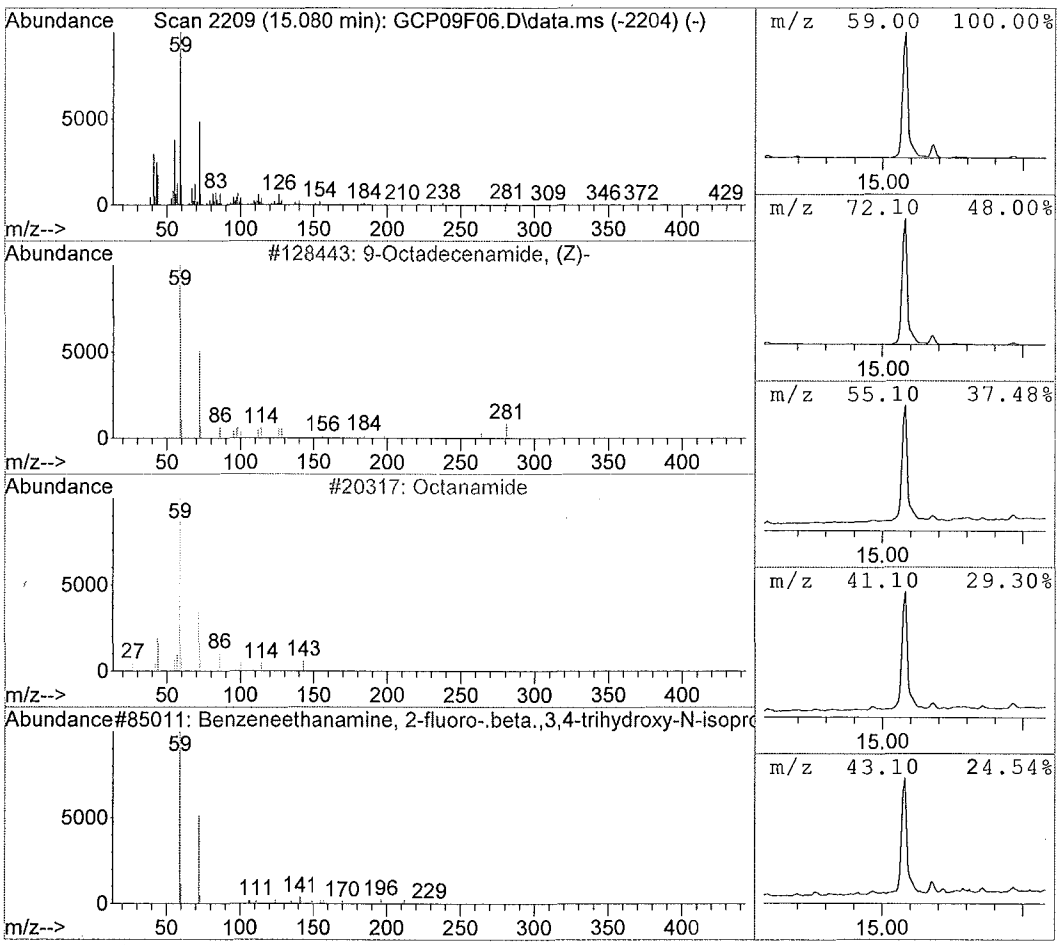
Data File : R:\G\2015\JUL15\10JUL15\GCP09F06.D
Acq On : 07/10/2015 13:54
Sample : 1515542006 F9M26
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 6
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
15.08	53.94 ug/ml	7745962	Chrysene-d12	2872120

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	94.00
2	Octanamide	20317	000629-01-6	72.00
3	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	59.00
4	Dodecanamide	60439	001120-16-7	59.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	56.00



Library Search Compound Report

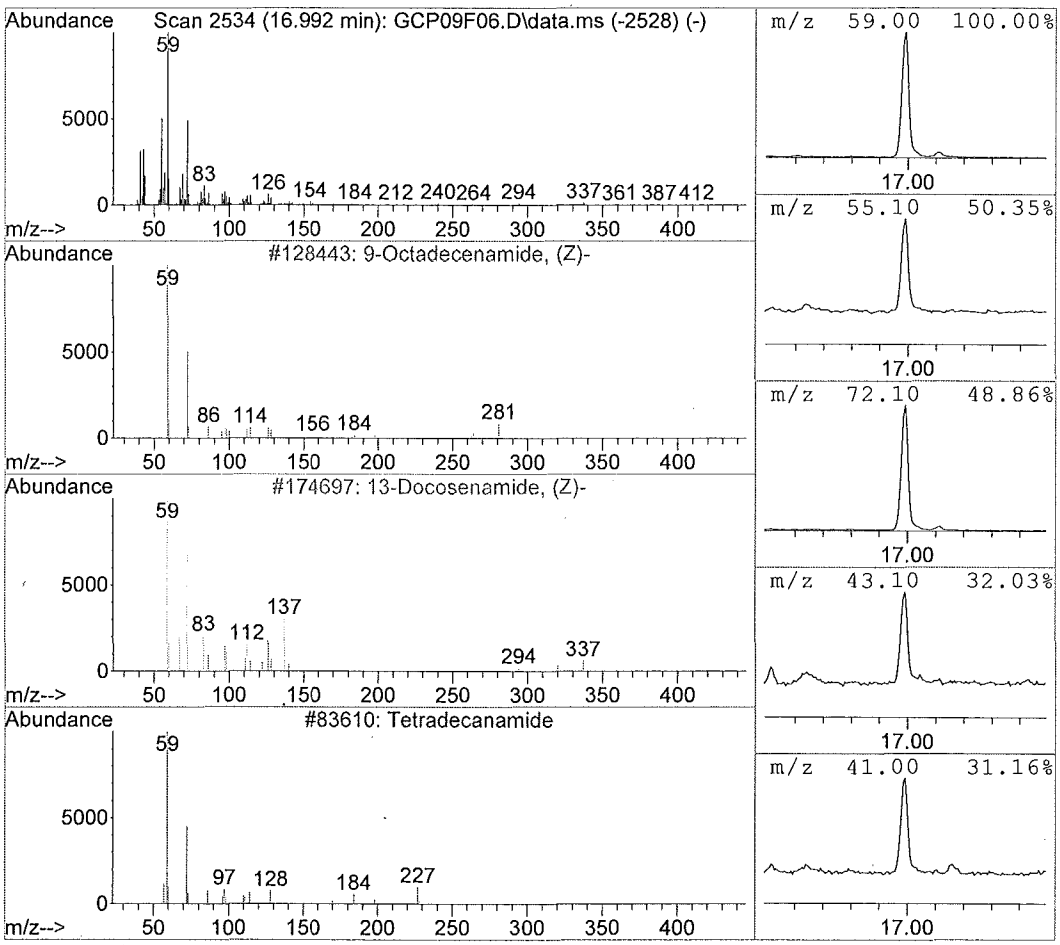
Data File : R:\G\2015\JUL15\10JUL15\GCP09F06.D
Acq On : 07/10/2015 13:54
Sample : 1515542006 F9M26
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 6
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
16.99	33.00 ug/ml	3323269	Perylene-d12	2014326

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	94.00
2	13-Docosenamide, (Z)-	174697	000112-84-5	90.00
3	Tetradecanamide	83610	000638-58-4	72.00
4	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	64.00
5	Octanamide	20317	000629-01-6	53.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M27

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GCP10F07

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

% Moisture: 19. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

GPC Cleanup: (Y/N) Y pH: 8.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	210	U
108-95-2	Phenol	210	U
111-44-4	Bis(2-chloroethyl)ether	210	U
95-57-8	2-Chlorophenol	210	U
95-48-7	2-Methylphenol	210	U
108-60-1	2,2'-Oxybis(1-chloropropane)	210	U
98-86-2	Acetophenone	210	U
106-44-5	4-Methylphenol	210	U
621-64-7	N-Nitroso-di-n-propylamine	210	U
67-72-1	Hexachloroethane	210	U
98-95-3	Nitrobenzene	210	U
78-59-1	Isophorone	210	U
88-75-5	2-Nitrophenol	210	U
105-67-9	2,4-Dimethylphenol	210	U
111-91-1	Bis(2-chloroethoxy)methane	210	U
120-83-2	2,4-Dichlorophenol	210	U
91-20-3	Naphthalene	210	U
106-47-8	4-Chloroaniline	210	U
87-68-3	Hexachlorobutadiene	210	U
105-60-2	Caprolactam	210	U
59-50-7	4-Chloro-3-methylphenol	210	U
91-57-6	2-Methylnaphthalene	210	U
77-47-4	Hexachlorocyclopentadiene	210	U
88-06-2	2,4,6-Trichlorophenol	210	U
95-95-4	2,4,5-Trichlorophenol	210	U
92-52-4	1,1'-Biphenyl	210	U
91-58-7	2-Chloronaphthalene	210	U
88-74-4	2-Nitroaniline	400	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	400	U
83-32-9	Acenaphthene	210	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M27

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GCP10F07

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

% Moisture: 19. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

GPC Cleanup: (Y/N) Y pH: 8.0 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	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	400	U
534-52-1	4,6-Dinitro-2-methylphenol	400	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	400	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	22.	J
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.: F9M27

Lab Name: ALS Environmental | Contract: EPW11037

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

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

Sample wt/vol: 30.3 (g/mL) g | Lab File ID: GCP10F07

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

% Moisture: 19. | Decanted: (Y/N) N | Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) | Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) | GPC Factor: 2.0 | Date Analyzed: 07/10/2015

GPC Cleanup: (Y/N) Y | pH: 8.0 | Dilution Factor: 1.0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 1,3-Dioxolane, 2,2-dimethyl-	2.32	490	J
02		Unknown Nitrosyl chloride	2.66	130	J
03		Unknown 2-Pentanone, 4-hydroxy-	3.30	340	JB
04		Unknown Guanidine	3.51	12000	J
05		Unknown TATP	4.07	150	J
06		Unknown 1H-Pyrrole-2,5-dione	4.27	710	J
07		Unknown 1,3-Dioxolane, 2-(1-propenyl)-	5.00	140	J
08		Unknown 2,2,4-Trimethyl-1,3-pentanediol diisobut	9.66	230	J
09		Unknown Dodecanamide	12.77	93.	J
10	1120-16-7	Dodecanamide	14.15	300	JN
11	301-02-0	9-Octadecenamide, (Z)-	15.07	1700	JNB
12		Unknown Pentadecanamide, 15-bromo-	15.17	100	J
13		Unknown Tetradecanamide	15.86	110	J
14		Unknown Cyclohexanecarboxamide	16.20	190	J
15	301-02-0	9-Octadecenamide, (Z)-	16.98	360	JN
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	2300	J

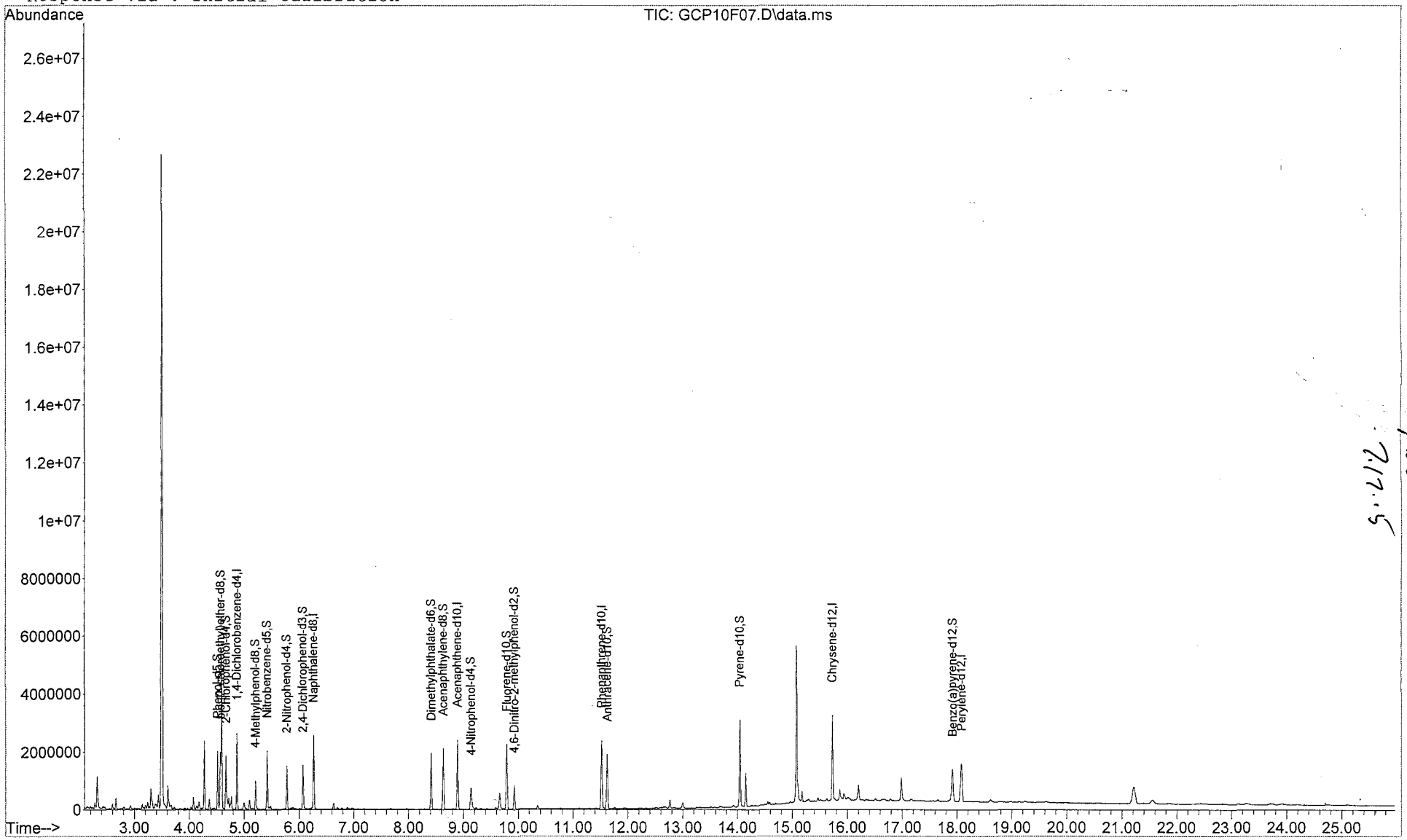
[2] EPA-designated Registry Number.

Quantitation Report

Data File : R:\G\2015\JUL15\10JUL15\GCP10F07.D Vial: 7
Acq On : 07/10/2015 14:28 Operator: TJM
Sample : 1515542007 F9M27 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jul 17 08:46:32 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



7/17/15

Quantitation Report

Data File : R:\G\2015\JUL15\10JUL15\GCP10F07.D Vial: 7
Acq On : 07/10/2015 14:28 Operator: TJM
Sample : 1515542007 F9M27 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 17 08:46:32 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	338723	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1265220	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	728533	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1243213	20.00 ug/ml
73) Chrysene-d12	15.73	240	1207200	20.00 ug/ml
81) Perylene-d12	18.08	264	963819	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.52	99	560373	19.011ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	426130	18.551ug/mL
7) 2-Chlorophenol-d4	4.67	132	460381	18.498ug/ml
13) 4-Methylphenol-d8	5.20	113	204761	10.386ug/mL
17) Nitrobenzene-d5	5.42	128	224057	20.159ug/ml
21) 2-Nitrophenol-d4	5.77	143	238324	20.286ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	334725	18.298ug/mL
28) 4-Chloroaniline-d4	6.34	131	5849	0.293ug/mL
42) Dimethylphthalate-d6	8.42	166	959439	21.002ug/mL
45) Acenaphthylene-d8	8.63	160	1218491	19.627ug/mL
50) 4-Nitrophenol-d4	9.14	143	169627	18.201ug/mL
57) Fluorene-d10	9.79	176	811951	20.812ug/mL
61) 4,6-Dinitro-2-methylphenol	9.93	200	128667	14.581ug/mL
69) Anthracene-d10	11.62	188	1126992	17.094ug/mL
75) Pyrene-d10	14.04	212	1222842	20.298ug/mL
86) Benzo(a)pyrene-d12	17.92	264	749748	16.234ug/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)

00229

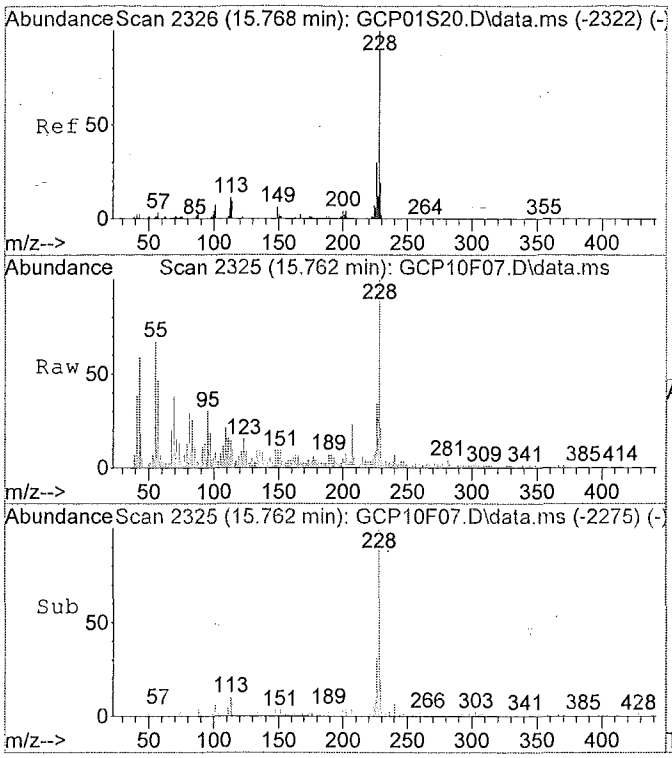
Quantitation Report

Data File : R:\G\2015\JUL15\10JUL15\GCP10F07.D Vial: 7
Acq On : 07/10/2015 14:28 Operator: TJM
Sample : 1515542007 F9M27 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 17 08:46:32 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	15.76	228	35558	0.538ug/ml	95
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	

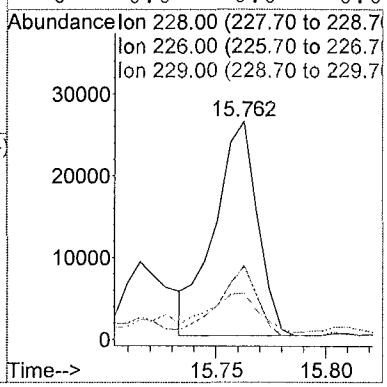
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)



#79
Chrysene
Concen: 0.54 ug/ml
RT: 15.76 min Scan# 2325
Delta R.T. -0.01 min
Lab File: GCP10F07.D
Acq: 07/10/2015 14:28

Tgt Ion:228 Resp: 35558

Ion	Ratio	Lower	Upper
228	100		
226	30.6	20.1	37.3
229	23.1	13.7	25.5
0	0.0	0.0	0.0



Library Search Compound Report

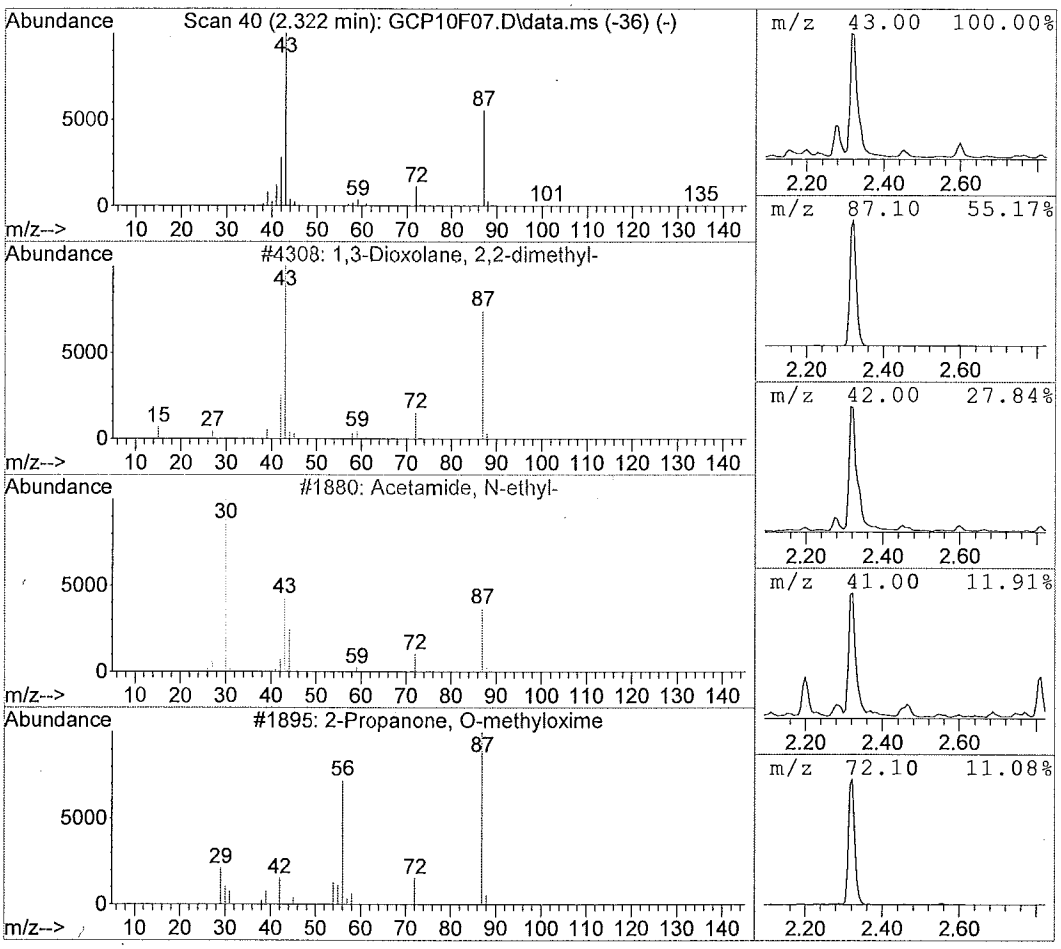
Data File : R:\G\2015\JUL15\10JUL15\GCP10F07.D
Acq On : 07/10/2015 14:28
Sample : 1515542007 F9M27
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 7
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
2.32	12.02 ug/ml	1483610	1,4-Dichlorobenzene-d4	2469552

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,3-Dioxolane, 2,2-dimethyl-	4308	002916-31-6	83.00
2	Acetamide, N-ethyl-	1880	000625-50-3	40.00
3	2-Propanone, O-methyloxime	1895	003376-35-0	23.00
4	Oxazolidin-2-one	1845	000497-25-6	9.00
5	Diacetyl sulphide	8654	003232-39-1	9.00

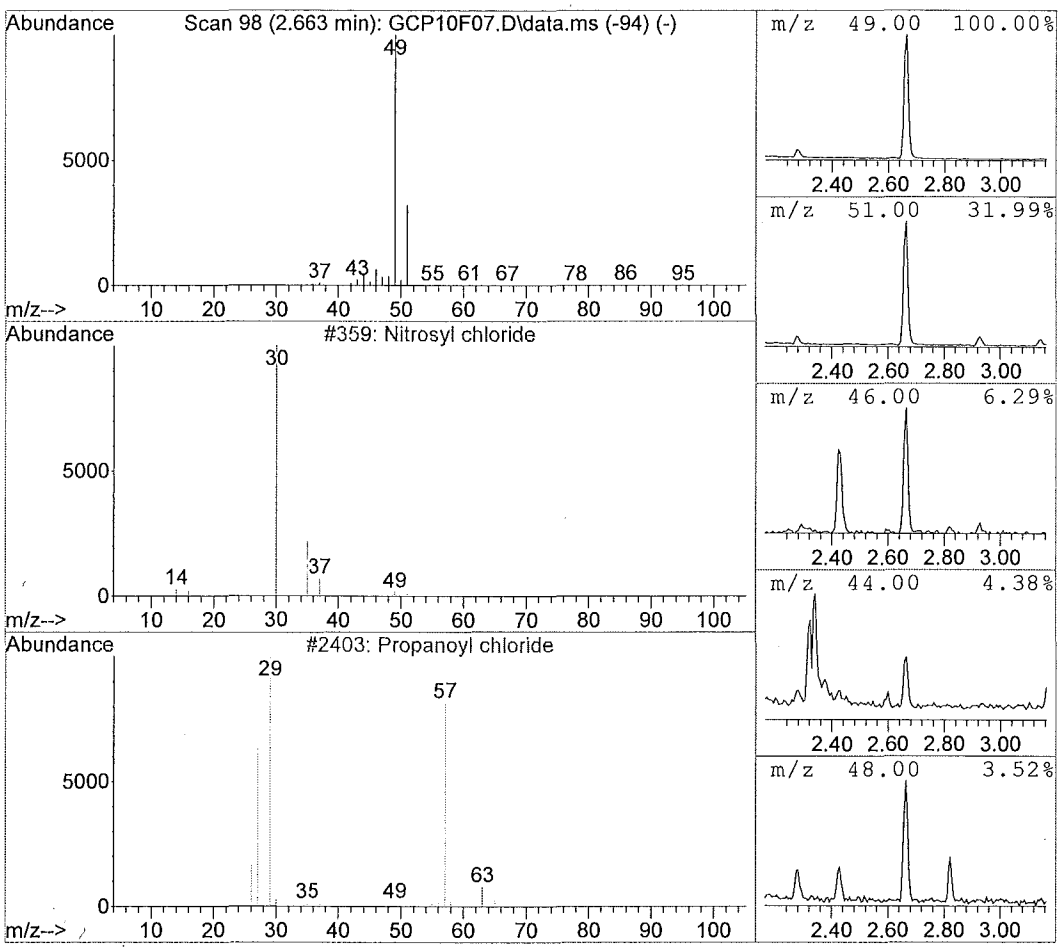


Data File : R:\G\2015\JUL15\10JUL15\GCP10F07.D Vial: 7
Acq On : 07/10/2015 14:28 Operator: TJM
Sample : 1515542007 F9M27 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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
2.66	3.19 ug/ml	393810	1,4-Dichlorobenzene-d4	2469552

Hit# of 2	Tentative ID	Ref#	CAS#	Qual
1	Nitrosyl chloride	359	002696-92-6	1.00
2	Propanoyl chloride	2403	000079-03-8	1.00



Library Search Compound Report

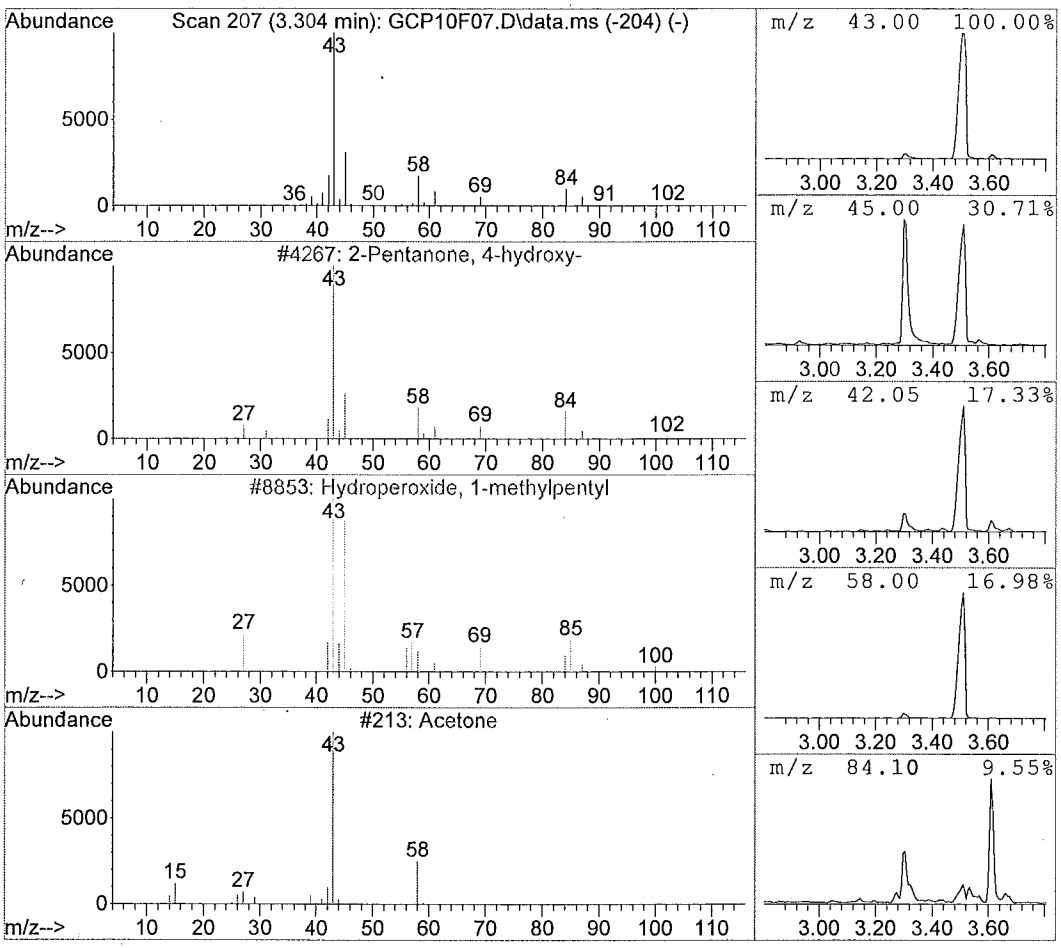
Data File : R:\G\2015\JUL15\10JUL15\GCP10F07.D
Acq On : 07/10/2015 14:28
Sample : 1515542007 F9M27
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 7
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	8.36 ug/ml	1031811	1,4-Dichlorobenzene-d4	2469552

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	56.00
2	Hydroperoxide, 1-methylpentyl	8853	024254-55-5	33.00
3	Acetone	213	000067-64-1	9.00
4	Butane	233	000106-97-8	9.00
5	1,3,4-Oxadiazole, 2-(acetyloxy)-2,5	40039	066398-57-0	9.00



Library Search Compound Report

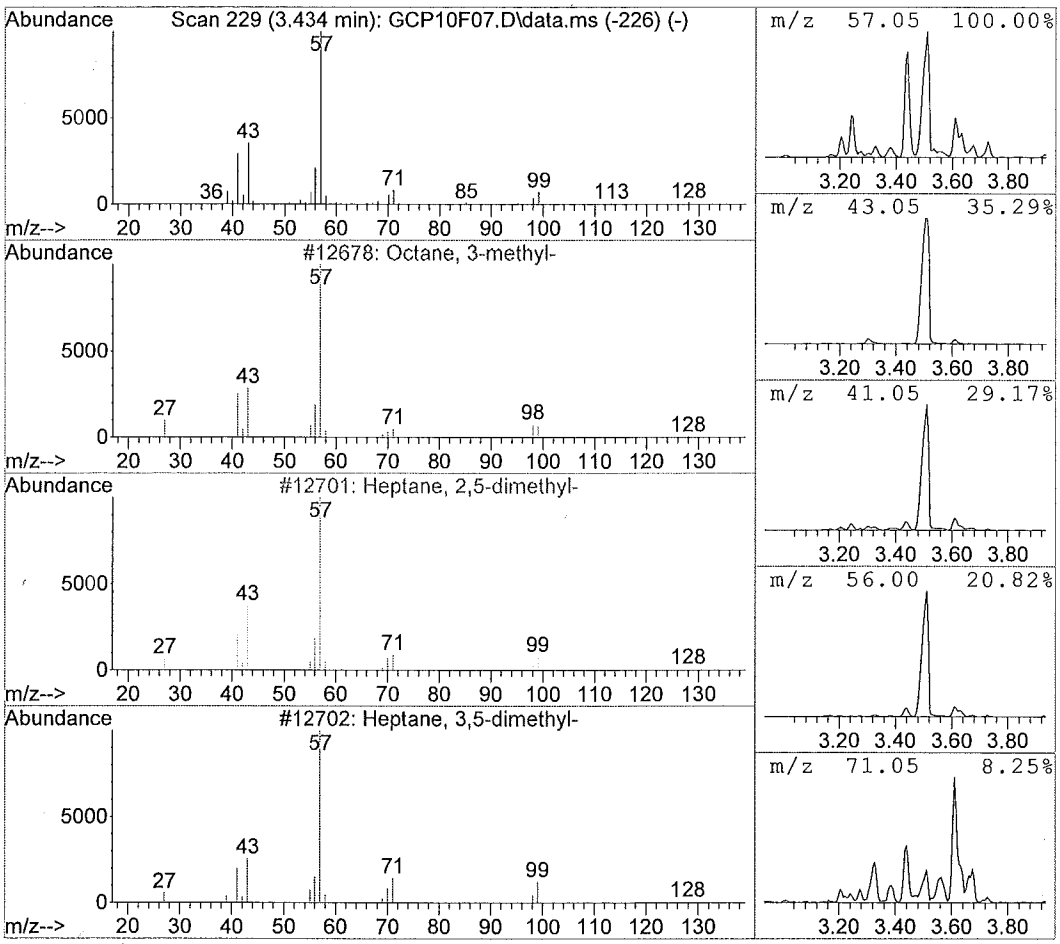
Data File : R:\G\2015\JUL15\10JUL15\GCP10F07.D Vial: 7
Acq On : 07/10/2015 14:28 Operator: TJM
Sample : 1515542007 F9M27 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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
3.43	4.49 ug/ml	554257	1,4-Dichlorobenzene-d4	2469552

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octane, 3-methyl-	12678	002216-33-3	91.00
2	Heptane, 2,5-dimethyl-	12701	002216-30-0	91.00
3	Heptane, 3,5-dimethyl-	12702	000926-82-9	64.00
4	Butane, 2,2,3,3-tetramethyl-	7671	000594-82-1	59.00
5	Hexane, 2,2,3-trimethyl-	12711	016747-25-4	47.00

RA



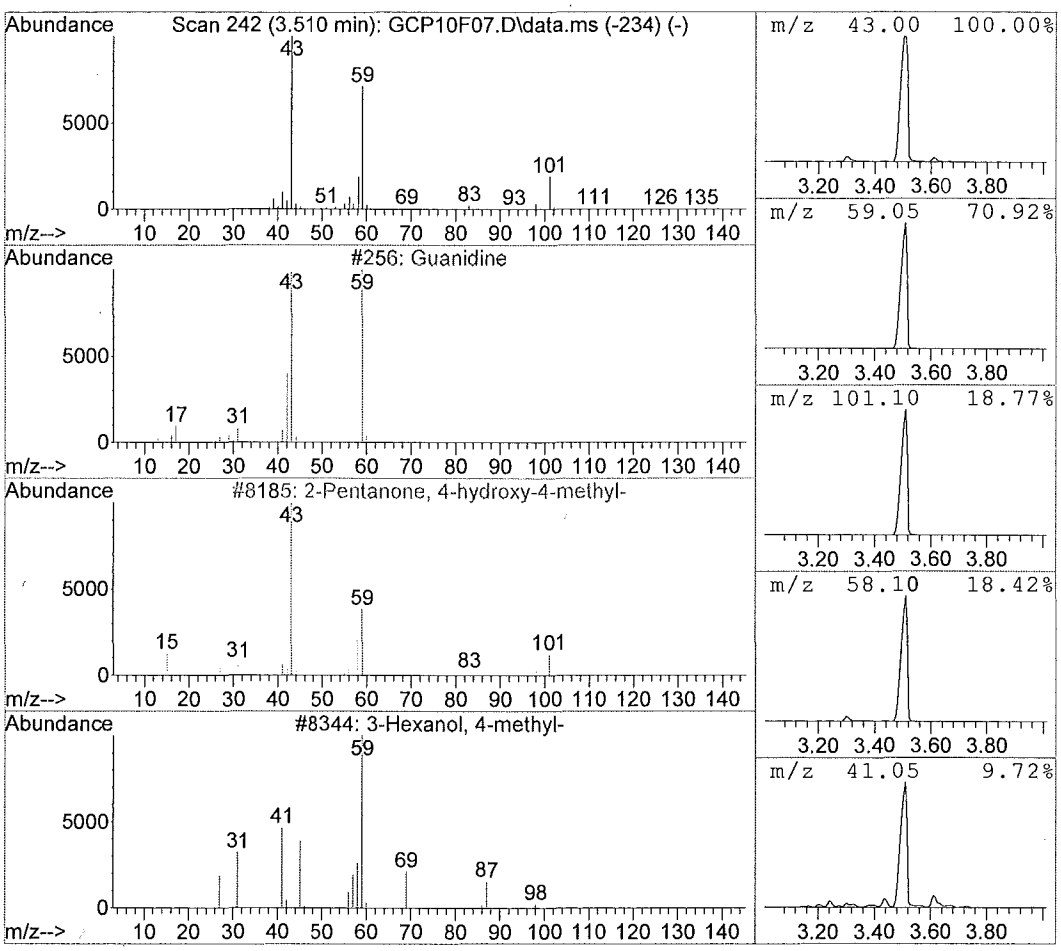
00235

Data File : R:\G\2015\JUL15\10JUL15\GCP10F07.D Vial: 7
Acq On : 07/10/2015 14:28 Operator: TJM
Sample : 1515542007 F9M27 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
3.51	290.72 ug/ml	35896976	1,4-Dichlorobenzene-d4	2469552

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	42.00
3	3-Hexanol, 4-methyl-	8344	000615-29-2	33.00
4	3-Octanol	13639	000589-98-0	33.00
5	2-Hexanol, 2-methyl-	8346	000625-23-0	28.00



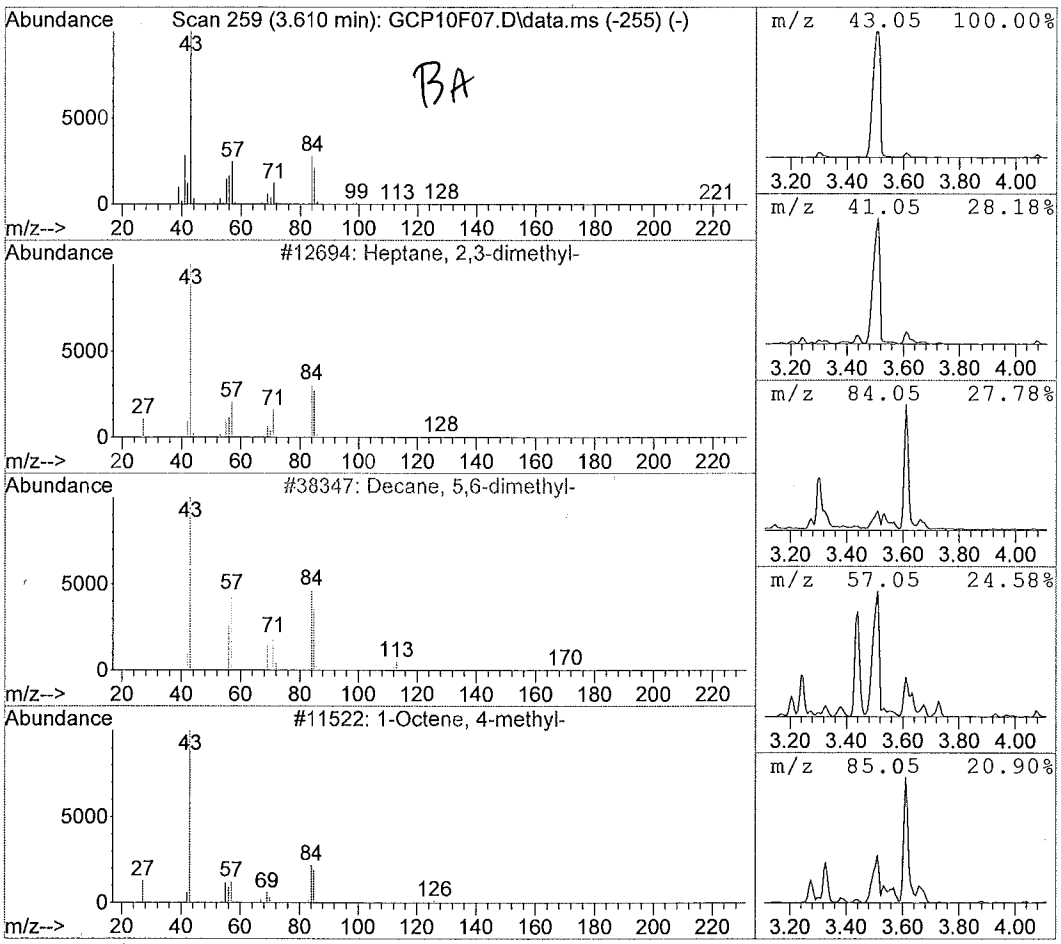
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP10F07.D Vial: 7
Acq On : 07/10/2015 14:28 Operator: TJM
Sample : 1515542007 F9M27 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
3.61	8.44 ug/ml	1042346	1,4-Dichlorobenzene-d4	2469552

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12694	003074-71-3	90.00
2	Decane, 5,6-dimethyl-	38347	001636-43-7	83.00
3	1-Octene, 4-methyl-	11522	013151-12-7	74.00
4	Hexane, 3-ethyl-2-methyl-	12730	016789-46-1	64.00
5	Hexane, 3-ethyl-	7623	000619-99-8	64.00



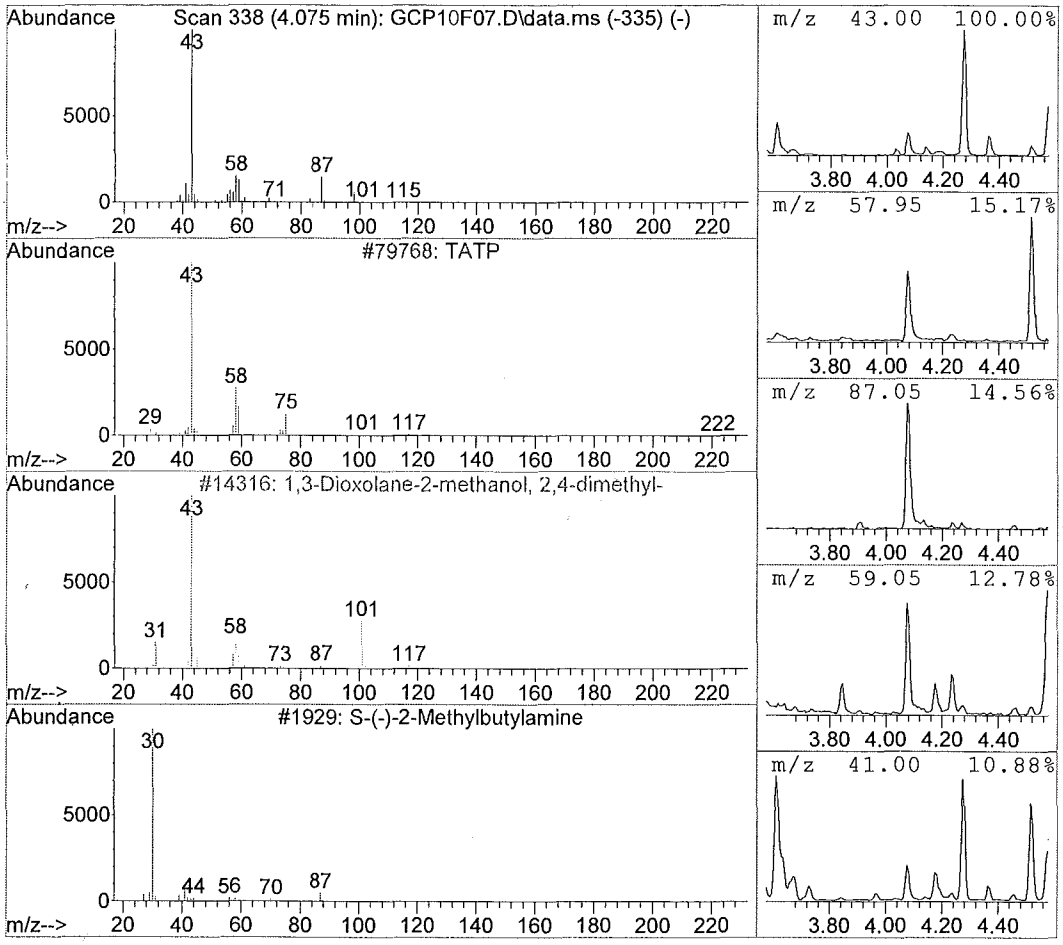
00237

Data File : R:\G\2015\JUL15\10JUL15\GCP10F07.D Vial: 7
Acq On : 07/10/2015 14:28 Operator: TJM
Sample : 1515542007 F9M27 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	3.60 ug/ml	445031	1,4-Dichlorobenzene-d4	2469552

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	TATP	79768	017088-37-8	40.00
2	1,3-Dioxolane-2-methanol, 2,4-dimet	14316	053951-43-2	33.00
3	S-(-)-2-Methylbutylamine	1929	020626-52-2	9.00
4	1-Butanamine, 2-methyl-	1912	000096-15-1	9.00
5	1-Pentanamine	1907	000110-58-7	9.00



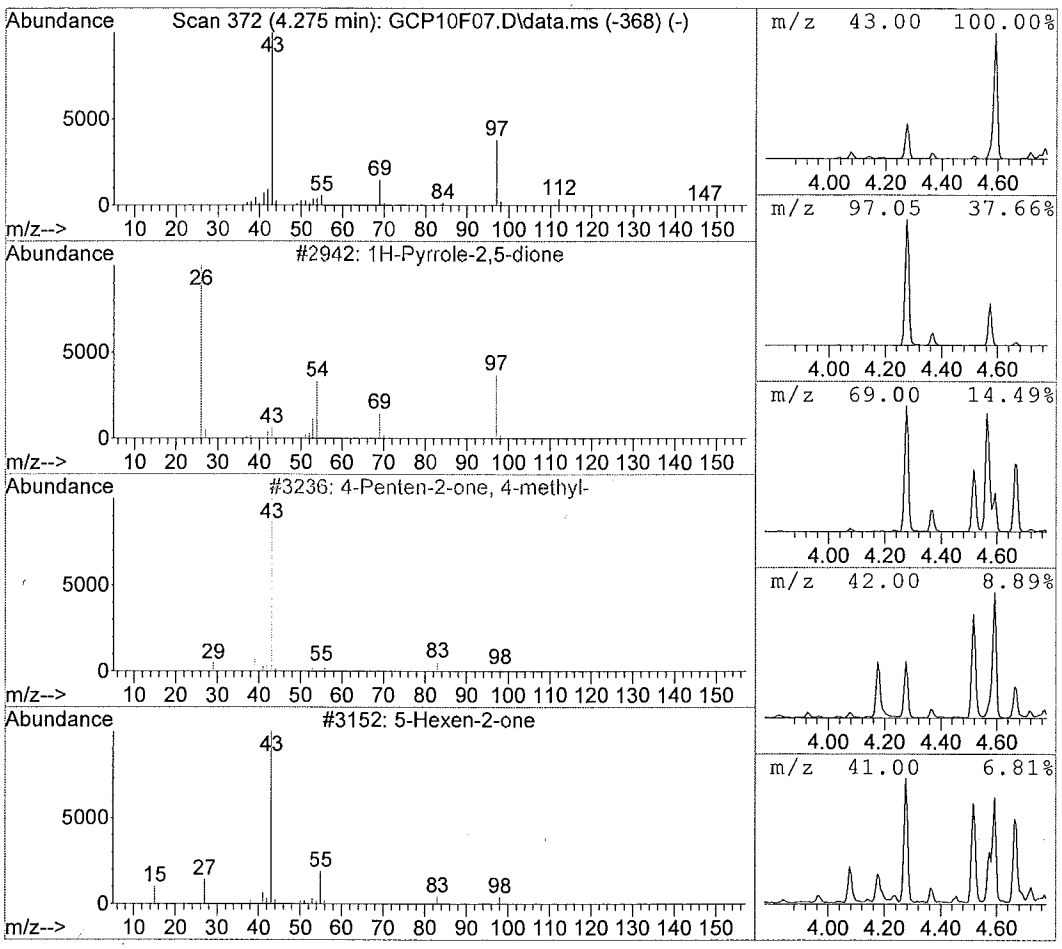
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP10F07.D Vial: 7
Acq On : 07/10/2015 14:28 Operator: TJM
Sample : 1515542007 F9M27 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	17.33 ug/ml	2140454	1,4-Dichlorobenzene-d4	2469552

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	32.00
2	4-Penten-2-one, 4-methyl-	3236	003744-02-3	9.00
3	5-Hexen-2-one	3152	000109-49-9	9.00
4	2,6,6-Trimethyl-bicyclo[3.1.1]hept-	26216	069460-11-3	9.00
5	Methyl 1-methylcyclopropyl ketone	3272	001567-75-5	9.00



: 00239

Library Search Compound Report

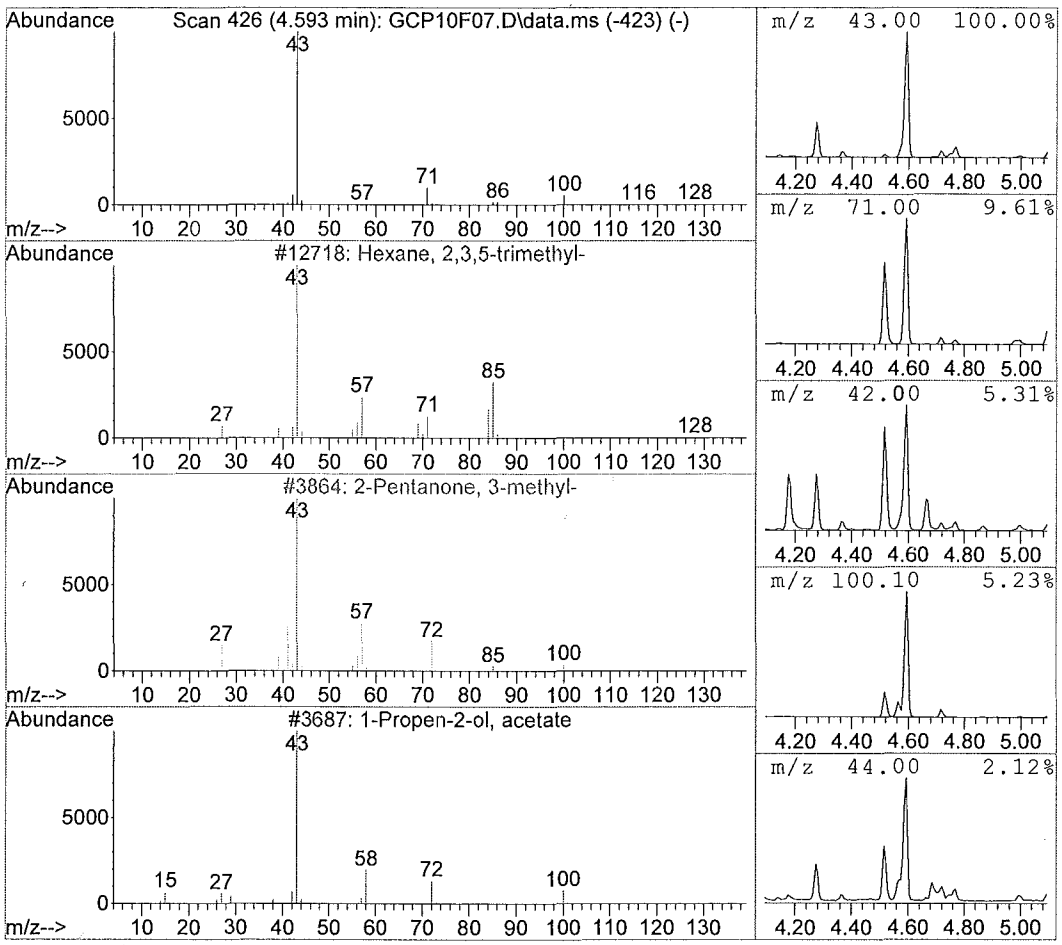
Data File : R:\G\2015\JUL15\10JUL15\GCP10F07.D Vial: 7
Acq On : 07/10/2015 14:28 Operator: TJM
Sample : 1515542007 F9M27 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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	40.08 ug/ml	4948440	1,4-Dichlorobenzene-d4	2469552

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	7.00
2	2-Pentanone, 3-methyl-	3864	000565-61-7	5.00
3	1-Propen-2-ol, acetate	3687	000108-22-5	5.00
4	Heptane, 2,4-dimethyl-	12695	002213-23-2	5.00
5	Heptane	3971	000142-82-5	5.00

BA



00249

Library Search Compound Report

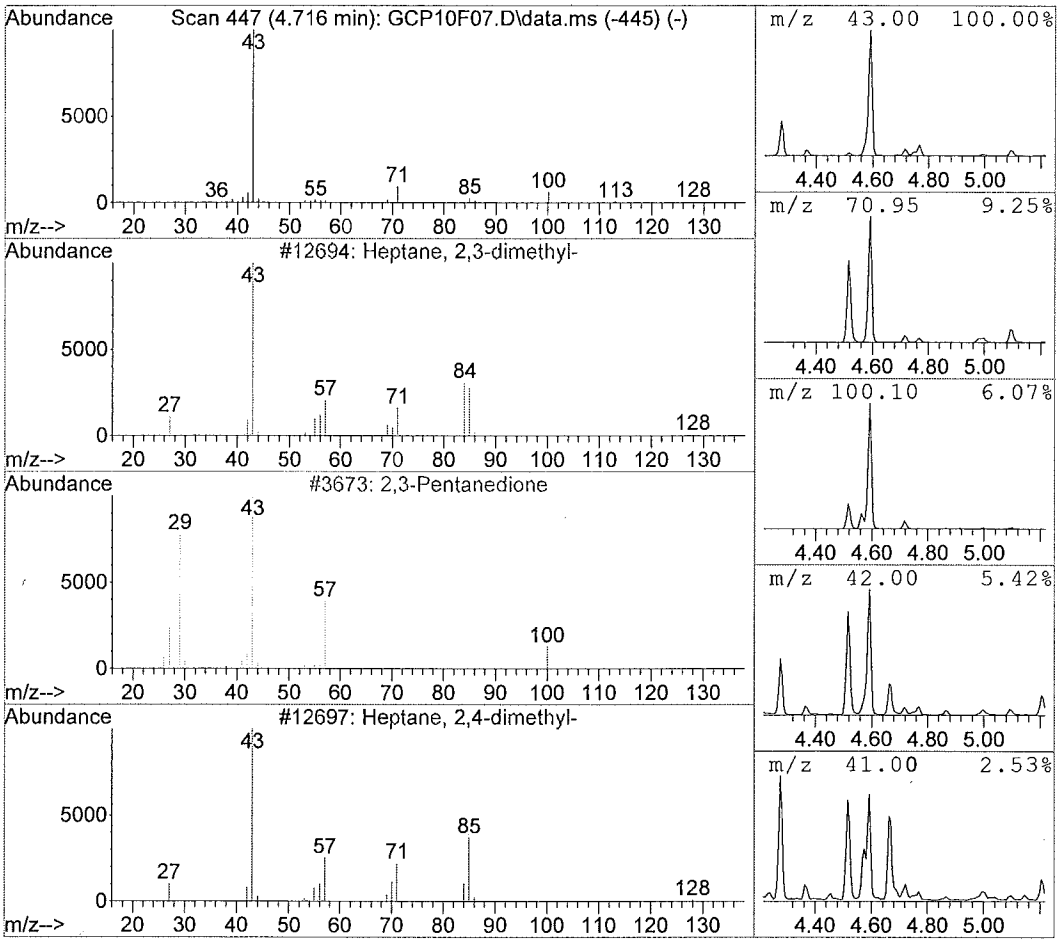
Data File : R:\G\2015\JUL15\10JUL15\GCP10F07.D Vial: 7
Acq On : 07/10/2015 14:28 Operator: TJM
Sample : 1515542007 F9M27 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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
4.72	3.07 ug/ml	379203	1,4-Dichlorobenzene-d4	2469552

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12694	003074-71-3	9.00
2	2,3-Pentanedione	3673	000600-14-6	9.00
3	Heptane, 2,4-dimethyl-	12697	002213-23-2	9.00
4	Heptane, 2,6-dimethyl-	12692	001072-05-5	7.00
5	Octane, 4-methyl-	12674	002216-34-4	7.00

BA



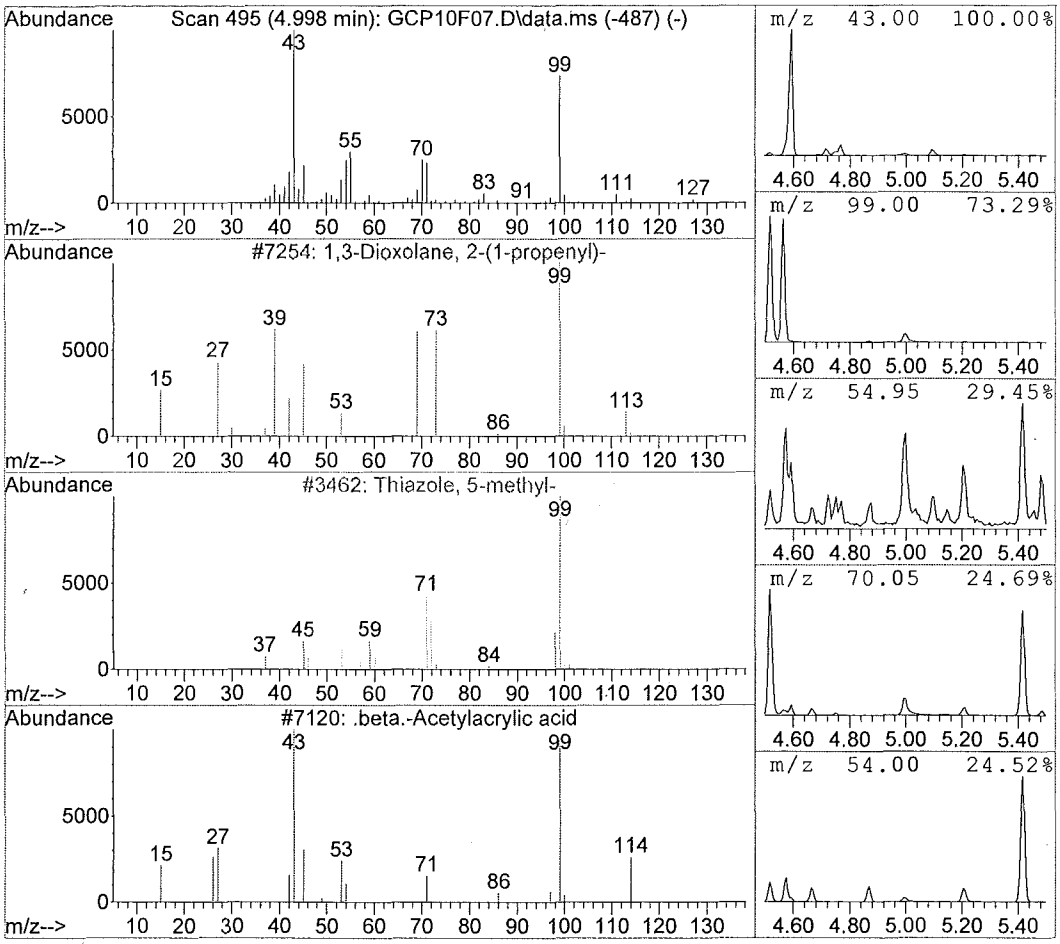
0241

Data File : R:\G\2015\JUL15\10JUL15\GCP10F07.D Vial: 7
Acq On : 07/10/2015 14:28 Operator: TJM
Sample : 1515542007 F9M27 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
5.00	3.31 ug/ml	408152	1,4-Dichlorobenzene-d4	2469552

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,3-Dioxolane, 2-(1-propenyl)-	7254	004528-26-1	47.00
2	Thiazole, 5-methyl-	3462	003581-89-3	47.00
3	.beta.-Acetylacrylic acid	7120	004743-82-2	47.00
4	4H-Imidazol-4-one, 2-amino-1,5-dihy	3444	000503-86-6	46.00
5	2-Piperidinone	3478	000675-20-7	38.00



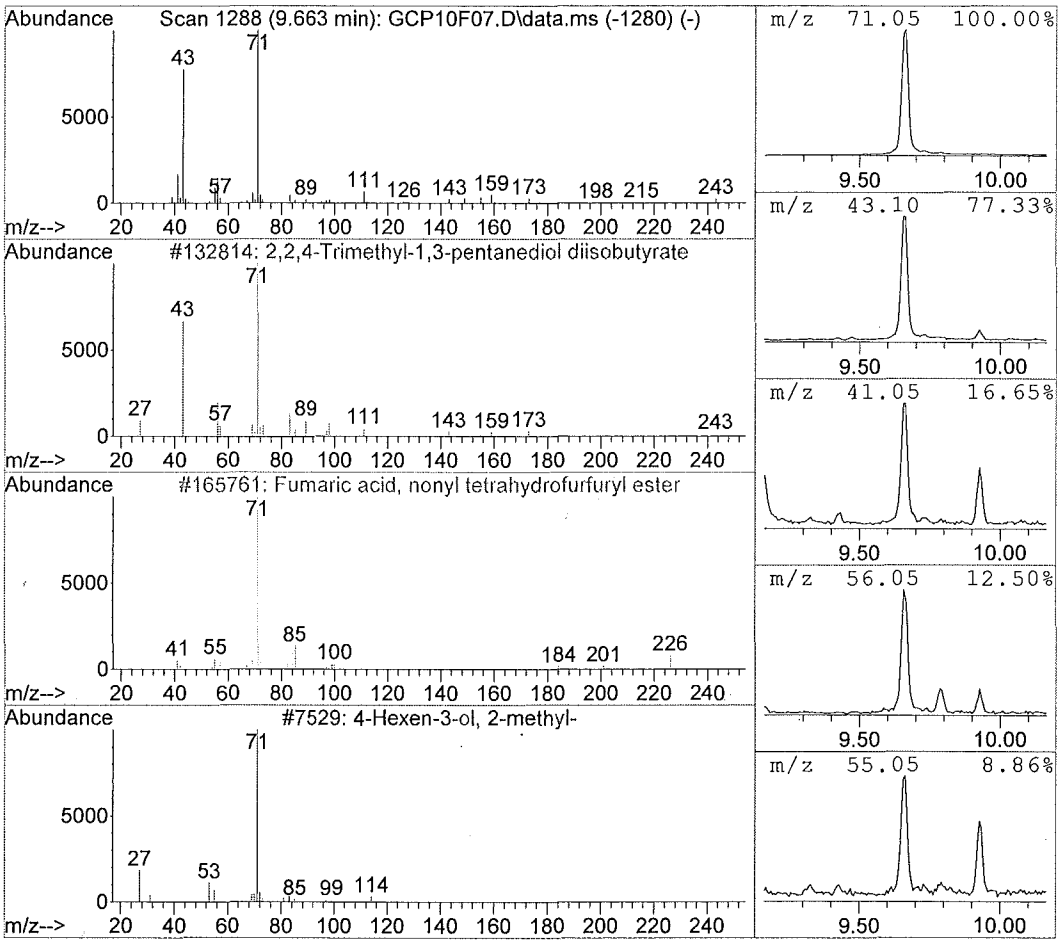
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP10F07.D Vial: 7
Acq On : 07/10/2015 14:28 Operator: TJM
Sample : 1515542007 F9M27 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	5.51 ug/ml	887208	Acenaphthene-d10	3218203

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,2,4-Trimethyl-1,3-pentanediol dii	132814	006846-50-0	56.00
2	Fumaric acid, nonyl tetrahydrofurfu	165761	1000330-58-3	50.00
3	4-Hexen-3-ol, 2-methyl-	7529	004798-60-1	47.00
4	2-Furanmethanol, tetrahydro-, aceta	20687	000637-64-9	45.00
5	Propanoic acid, 2-methyl-, 1-(1,1-d	132857	074381-40-1	45.00



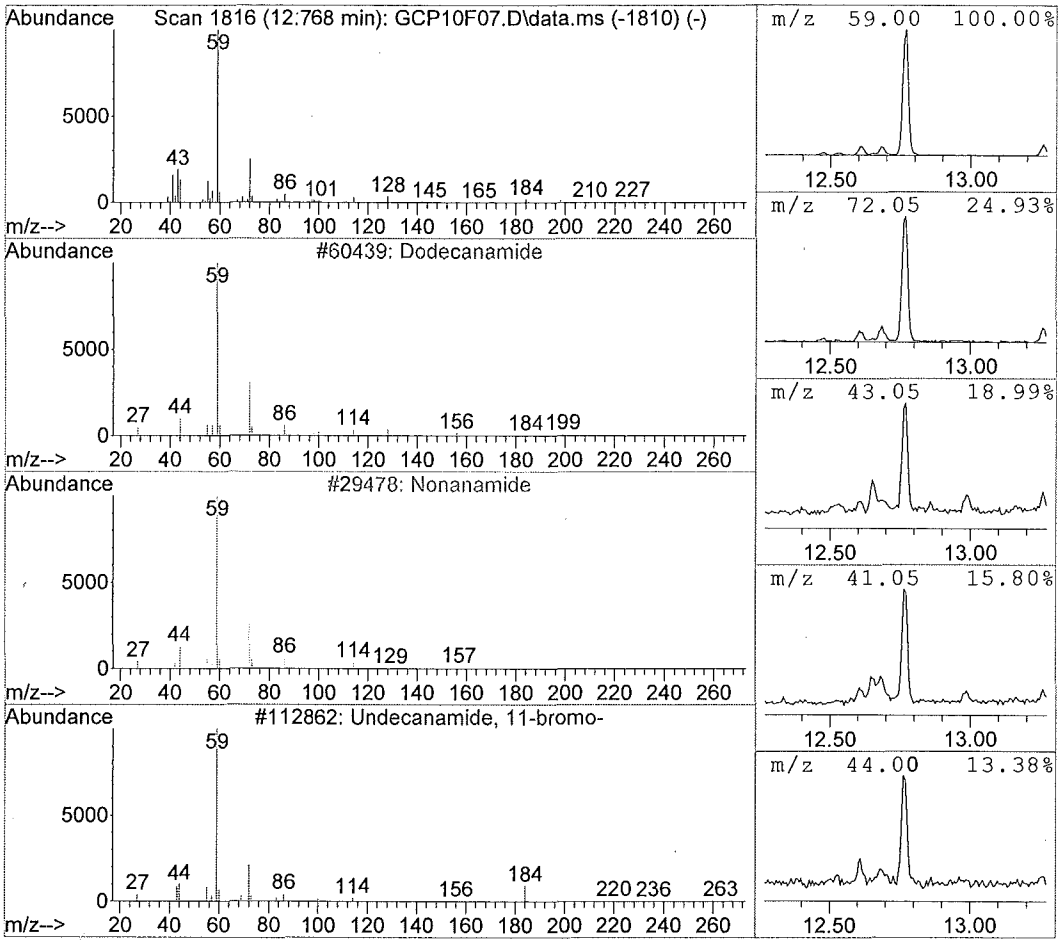
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP10F07.D Vial: 7
Acq On : 07/10/2015 14:28 Operator: TJM
Sample : 1515542007 F9M27 Inst : 5975-G
Misc : . SOIL SOM Injection volume : luL
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	2.26 ug/ml	381907	Phenanthrene-d10	3374563

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	83.00
2	Nonanamide	29478	001120-07-6	83.00
3	Undecanamide, 11-bromo-	112862	005875-26-3	83.00
4	Pentanamide	4064	000626-97-1	80.00
5	Decanamide-	38977	002319-29-1	64.00



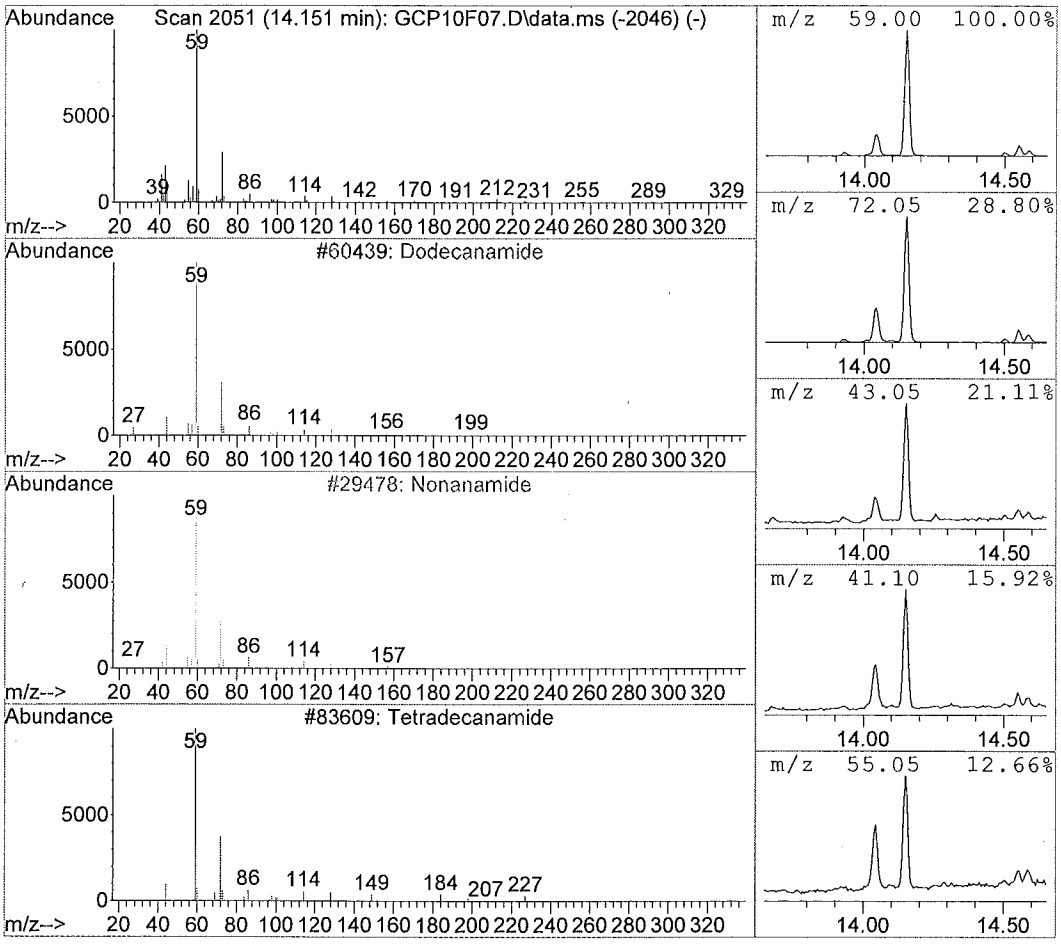
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP10F07.D Vial: 7
Acq On : 07/10/2015 14:28 Operator: TJM
Sample : 1515542007 F9M27 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	7.35 ug/ml	1290997	Chrysene-d12	3510589

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	90.00
2	Nonanamide	29478	001120-07-6	83.00
3	Tetradecanamide	83609	000638-58-4	83.00
4	Undecanamide, 11-bromo-	112862	005875-26-3	83.00
5	Decanamide-	38977	002319-29-1	74.00



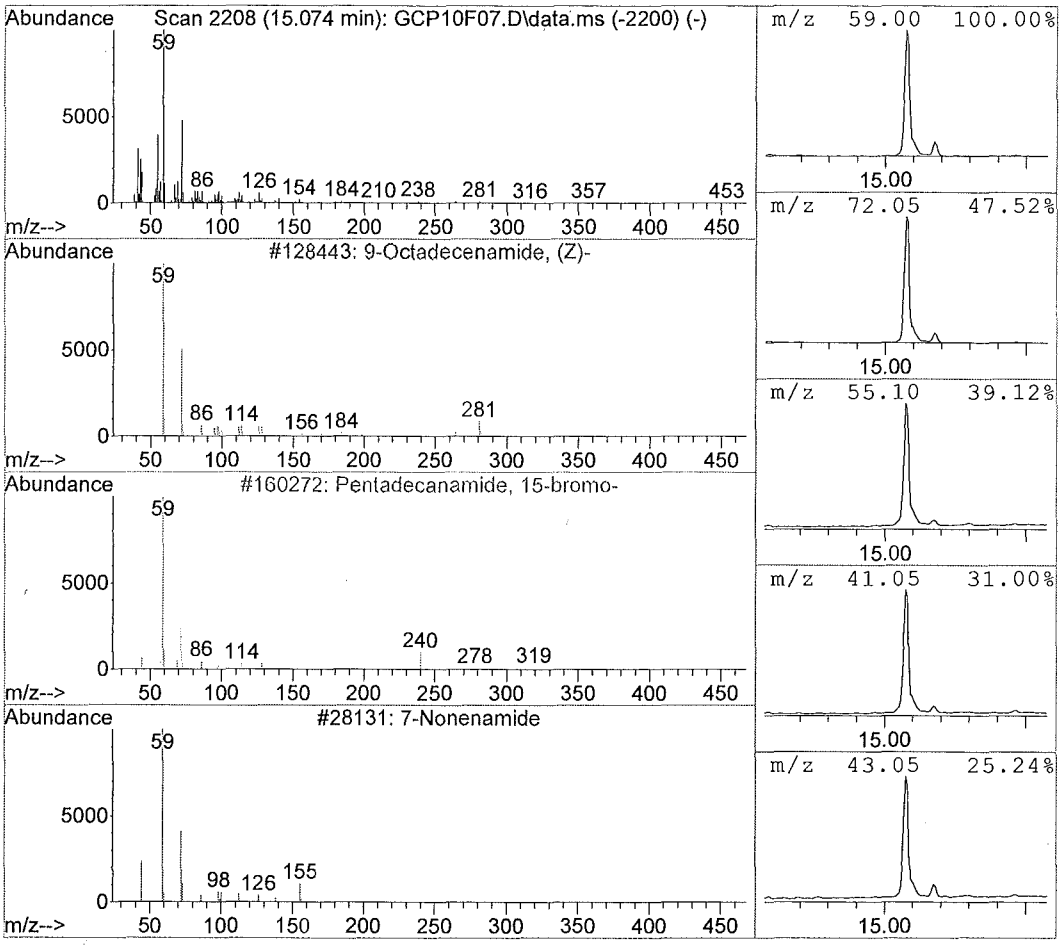
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP10F07.D Vial: 7
Acq On : 07/10/2015 14:28 Operator: TJM
Sample : 1515542007 F9M27 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	42.62 ug/ml	7481199	Chrysene-d12	3510589

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	94.00
2	Pentadecanamide, 15-bromo-	160272	1000163-86-1	78.00
3	7-Nonenamide	28131	090949-53-4	72.00
4	Tetradecanamide	83609	000638-58-4	56.00
5	Octanamide	20317	000629-01-6	56.00



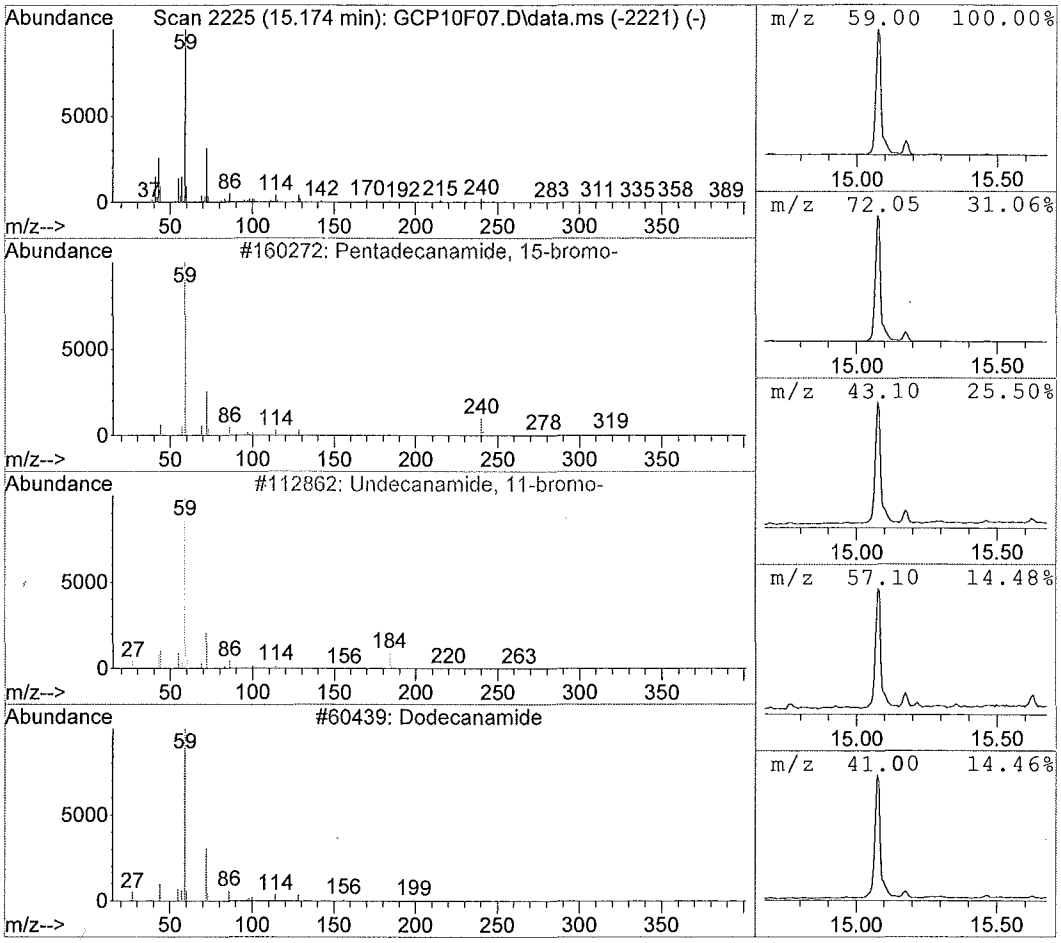
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP10F07.D Vial: 7
Acq On : 07/10/2015 14:28 Operator: TJM
Sample : 1515542007 F9M27 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	2.50 ug/ml	438654	Chrysene-d12	3510589

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentadecanamide, 15-bromo-	160272	1000163-86-1	72.00
2	Undecanamide, 11-bromo-	112862	005875-26-3	72.00
3	Dodecanamide	60439	001120-16-7	64.00
4	Pentanamide	4064	000626-97-1	56.00
5	Nonanamide	29478	001120-07-6	56.00



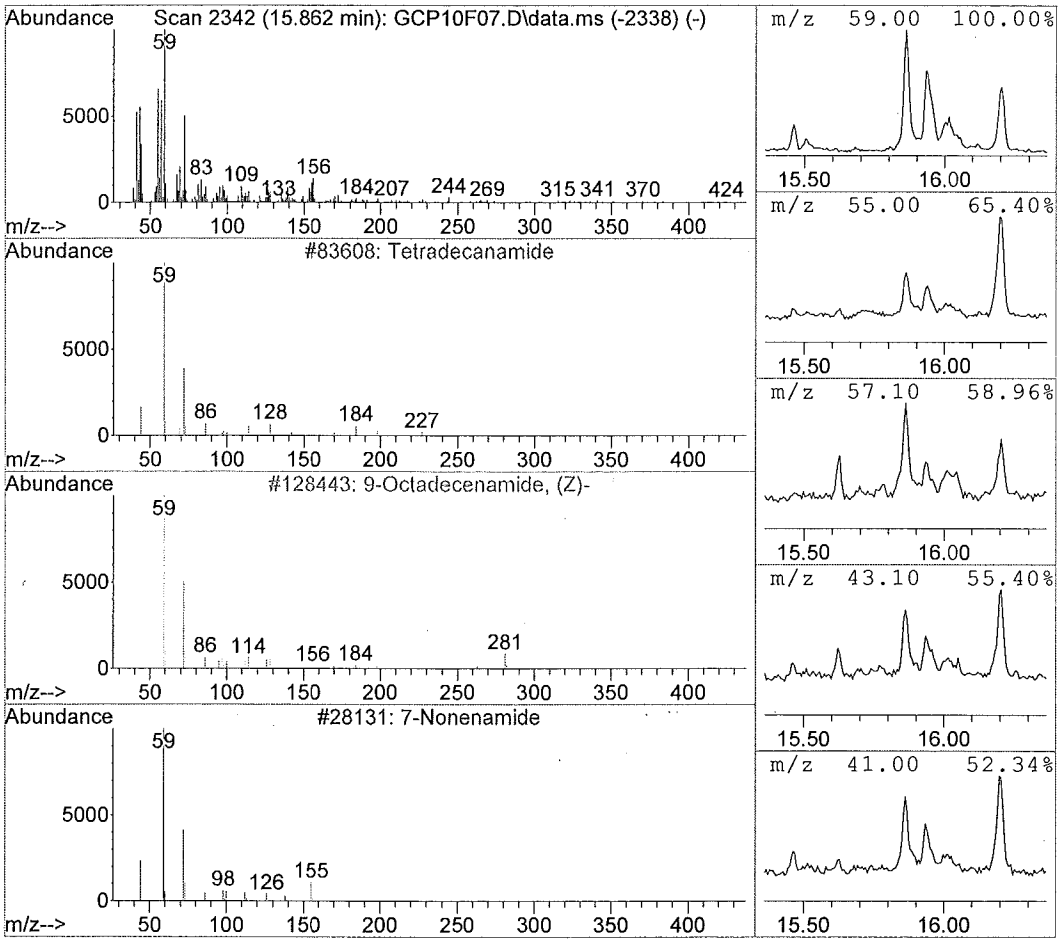
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP10F07.D Vial: 7
Acq On : 07/10/2015 14:28 Operator: TJM
Sample : 1515542007 F9M27 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	2.64 ug/ml	463432	Chrysene-d12	3510589

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83608	000638-58-4	76.00
2	9-Octadecenamide, (Z)-	128443	000301-02-0	72.00
3	7-Nonenamide	28131	090949-53-4	68.00
4	Hexadecanamide	106565	000629-54-9	59.00
5	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	58.00



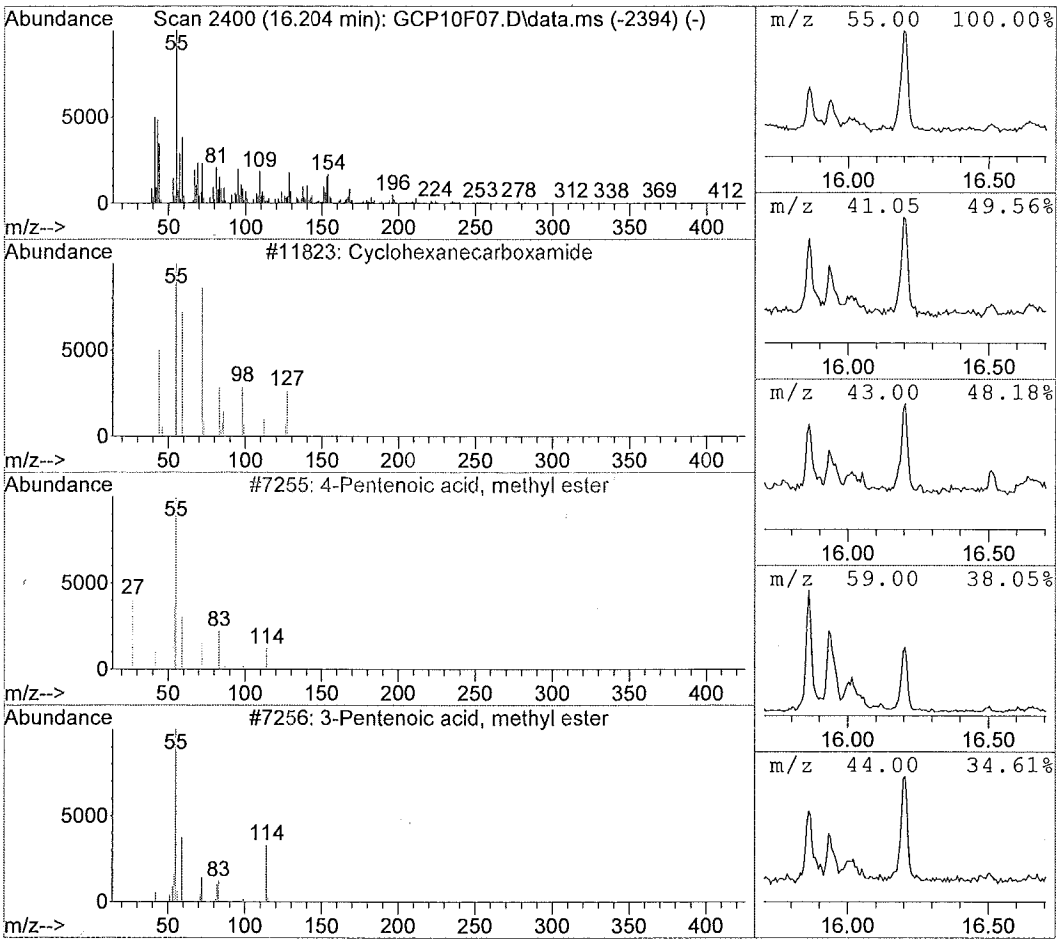
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP10F07.D Vial: 7
Acq On : 07/10/2015 14:28 Operator: TJM
Sample : 1515542007 F9M27 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	4.76 ug/ml	835280	Chrysene-d12	3510589

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexanecarboxamide	11823	001122-56-1	16.00
2	4-Pentenoic acid, methyl ester	7255	000818-57-5	16.00
3	3-Pentenoic acid, methyl ester	7256	000818-58-6	12.00
4	Acetic acid, 2-(2-buten-1-yl)-2-nit	51202	1000159-10-2	9.00
5	2-(4-Nitrobutyryl)cyclooctanone	94695	079630-93-6	9.00



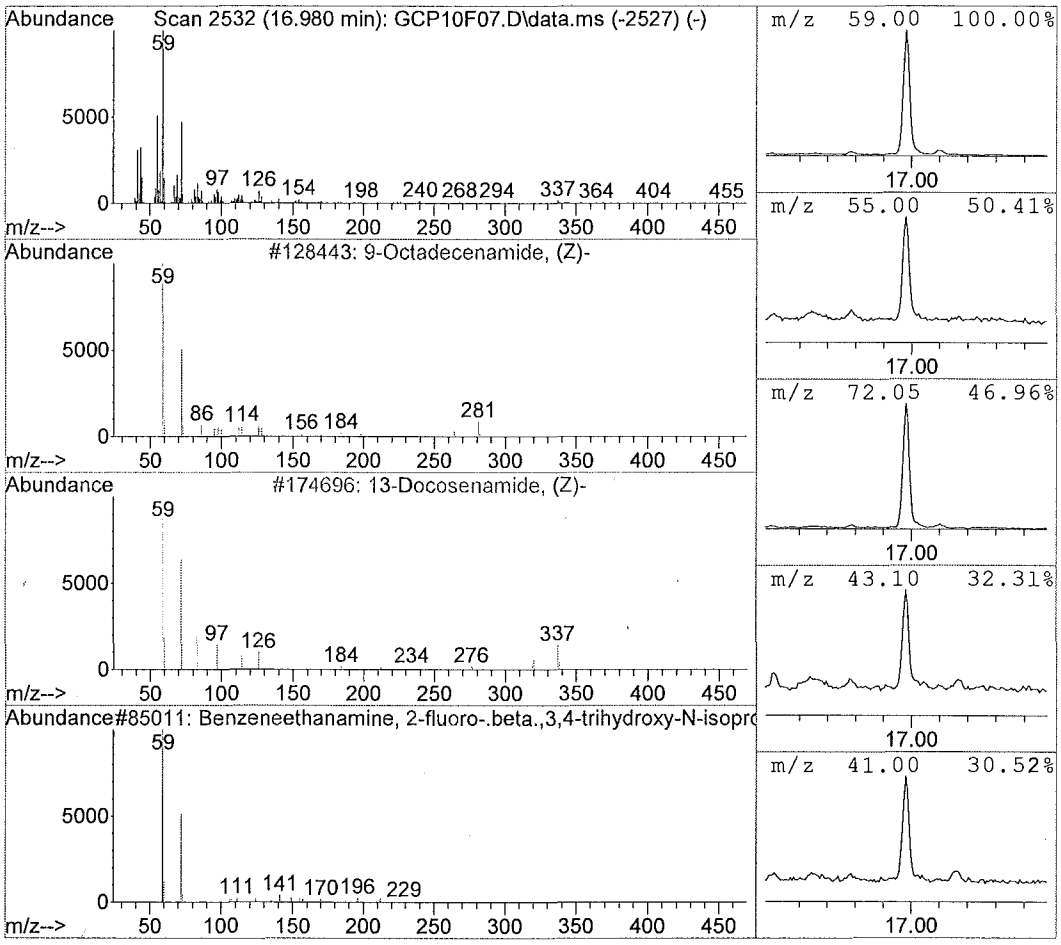
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP10F07.D Vial: 7
Acq On : 07/10/2015 14:28 Operator: TJM
Sample : 1515542007 F9M27 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	8.75 ug/ml	1245725	Perylene-d12	2846866

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	90.00
2	13-Docosenamide, (Z)-	174696	000112-84-5	64.00
3	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	64.00
4	3-Hydroxy-3-methyl-butyric acid, hy	14188	1000193-80-2	59.00
5	7-Nonenamide	28131	090949-53-4	56.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: F9M28

Lab Name: ALS Environmental | Contract: EPW11037

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

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

Sample wt/vol: 30.1 (g/mL) g | Lab File ID: GCP11F10

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

% Moisture: 17. | Decanted: (Y/N) N | Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) | Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) | GPC Factor: 2.0 | Date Analyzed: 07/10/2015

GPC Cleanup: (Y/N) Y | pH: 8.1 | 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	400	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	400	U
83-32-9	Acenaphthene	210	U

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

EPA SAMPLE NO.

F9M28

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GCP11F10

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

% Moisture: 17. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

GPC Cleanup: (Y/N) Y pH: 8.1 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	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	400	U
534-52-1	4,6-Dinitro-2-methylphenol	400	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	400	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	19.	J
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.

F9M28

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GCP11F10

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

% Moisture: 17. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

GPC Cleanup: (Y/N) Y pH: 8.1 Dilution Factor: 1.0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 1,3-Dioxolane, 2,2-dimethyl-	2.32	450	J
02		Unknown 2-Pentanone, 4-hydroxy-	3.30	900	JB
03		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.53	19000	JB
04		Unknown TATP	4.08	430	J
05		Unknown 1H-Pyrrole-2,5-dione	4.27	650	J
06		Unknown 2-Propanone, 1-hydroxy-	5.10	330	J
07		Unknown 2,2,4-Trimethyl-1,3-pentanediol diisobut	9.66	170	J
08	1120-16-7	Dodecanamide	14.15	440	JN
09	301-02-0	9-Octadecenamide, (Z)-	15.08	2500	JNB
10		Unknown Benzeneethanamine, 2-fluoro-.beta.,3,4-t	15.86	190	J
11		Unknown N'-(4-Nitrobenzylidene)-2-pentyl-1-cyclc	16.20	310	J
12	301-02-0	9-Octadecenamide, (Z)-	16.98	390	JN
13	13187-99-0	2-Bromo dodecane	17.66	510	JN
14		Unknown 1,4-Dimethyl-8-isopropylidenetricyclo[5.	21.22	1300	J
15		Unknown Naphthalene, 2,3,4,4a,5,6-hexahydro-1,4a	21.56	440	J
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	1900	J

[2] EPA-designated Registry Number.

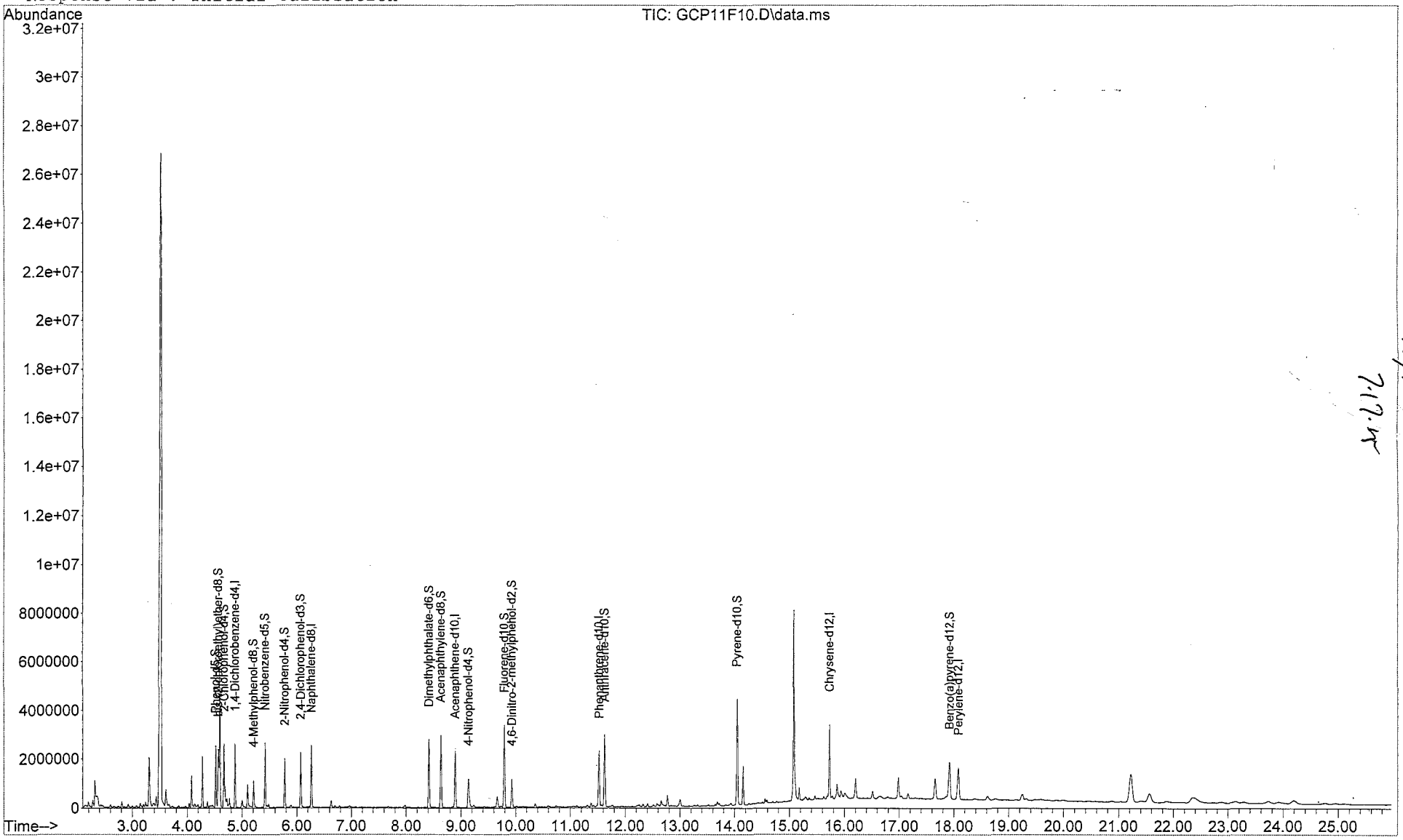
Quantitation Report

Data File : R:\G\2015\JUL15\10JUL15\GCP11F10.D
Acq On : 07/10/2015 15:02
Sample : 1515542010 F9M28
Misc : . SOIL SOM
MS Integration Params: rteint.p

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

Quant Time: Jul 17 08:46:53 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



7.17.15

Quantitation Report

Data File : R:\G\2015\JUL15\10JUL15\GCP11F10.D Vial: 8
Acq On : 07/10/2015 15:02 Operator: TJM
Sample : 1515542010 F9M28 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 17 08:46:53 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	339258	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1218765	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	714859	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1228906	20.00 ug/ml
73) Chrysene-d12	15.73	240	1199706	20.00 ug/ml
81) Perylene-d12	18.08	264	903781	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.52	99	756092	25.610ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	545530	23.711ug/mL
7) 2-Chlorophenol-d4	4.67	132	614036	24.633ug/ml
13) 4-Methylphenol-d8	5.20	113	226937	11.492ug/mL
17) Nitrobenzene-d5	5.42	128	290734	27.155ug/ml
21) 2-Nitrophenol-d4	5.77	143	319401	28.224ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	463276	26.290ug/mL
28) 4-Chloroaniline-d4	6.35	131	2789	0.145ug/mL
42) Dimethylphthalate-d6	8.42	166	1409230	31.438ug/mL
45) Acenaphthylene-d8	8.63	160	1717649	28.196ug/mL
50) 4-Nitrophenol-d4	9.14	143	272541	29.803ug/mL
57) Fluorene-d10	9.79	176	1194337	31.199ug/mL
61) 4,6-Dinitro-2-methylphenol	9.93	200	185031	21.213ug/mL
69) Anthracene-d10	11.62	188	1723448	26.446ug/mL
75) Pyrene-d10	14.04	212	1830594	30.576ug/mL
86) Benzo(a)pyrene-d12	17.92	264	1082602	24.998ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	0.00	77		Not Detected
4) Phenol	0.00	94		Not Detected
5) Bis(2-chloroethyl)ether	0.00	93		Not Detected
8) 2-Chlorophenol	0.00	128		Not Detected
9) 2-Methylphenol	0.00	108		Not Detected
10) 2,2'-Oxybis-(1-chloropropa	0.00	45		Not Detected
11) Acetophenone	0.00	105		Not Detected
12) 4-methylphenol	0.00	108		Not Detected
14) N-Nitroso-di-n-propylamine	0.00	70		Not Detected
15) Hexachloroethane	0.00	117		Not Detected
18) Nitrobenzene	0.00	77		Not Detected
19) Isophorone	0.00	82		Not Detected
20) 2-Nitrophenol	0.00	139		Not Detected
22) 2,4-Dimethylphenol	0.00	107		Not Detected
23) Bis(2-chloroethoxy)methane	0.00	93		Not Detected
24) 2,4-Dichlorophenol	0.00	162		Not Detected
26) Naphthalene	0.00	128		Not Detected
27) 4-Chloroaniline	0.00	127		Not Detected
29) Hexachlorobutadiene	0.00	225		Not Detected
30) Caprolactam	0.00	113		Not Detected
31) 4-Chloro-3-methylphenol	0.00	107		Not Detected
32) 2-Methylnaphthalene	0.00	142		Not Detected
34) 1,2,4,5-Tetrachlorobenzene	0.00	216		Not Detected
35) Hexachlorocyclopentadiene	0.00	237		Not Detected
36) 2,4,6-Trichlorophenol	0.00	196		Not Detected
37) 2,4,5-Trichlorophenol	0.00	196		Not Detected
38) 1,1'-Biphenyl	0.00	154		Not Detected
39) 2-Chloronaphthalene	0.00	162		Not Detected
40) 2-Nitroaniline	0.00	65		Not Detected
41) Dimethylphthalate	0.00	163		Not Detected
43) 2,6-Dinitrotoluene	0.00	165		Not Detected

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

Quantitation Report

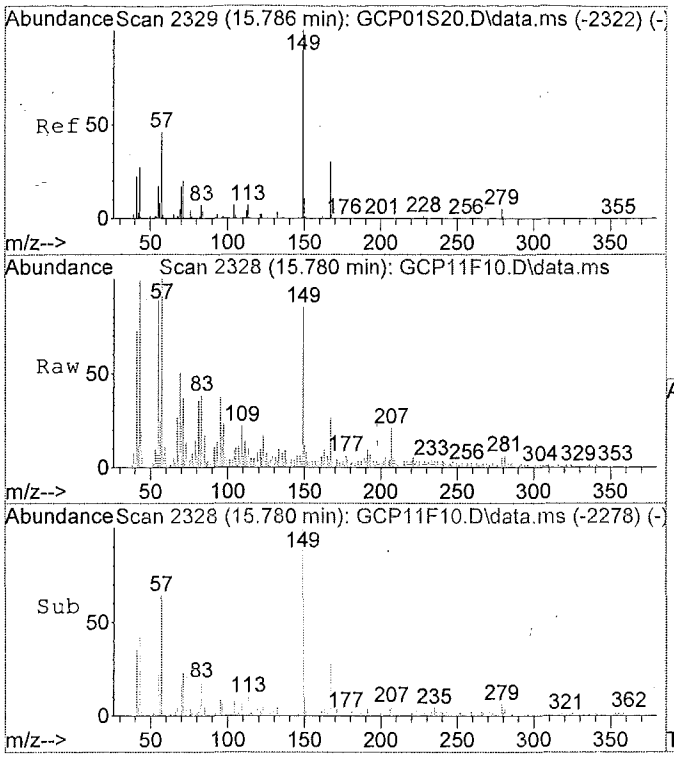
Data File : R:\G\2015\JUL15\10JUL15\GCP11F10.D Vial: 8
Acq On : 07/10/2015 15:02 Operator: TJM
Sample : 1515542010 F9M28 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 17 08:46:53 2015 Results File: GSOM01D6.RES

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	27818	0.469ug/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)

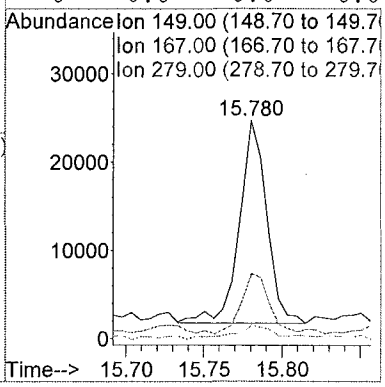
00256



#80
Bis-(2-ethylhexyl)phthalate
Concen: 0.47 ug/ml
RT: 15.78 min Scan# 2328
Delta R.T. -0.01 min
Lab File: GCP11F10.D
Acq: 07/10/2015 15:02

Tgt Ion:149 Resp: 27818

Ion	Ratio	Lower	Upper
149	100		
167	30.5	22.0	40.8
279	9.0	5.0	9.2
0	0.0	0.0	0.0



Library Search Compound Report

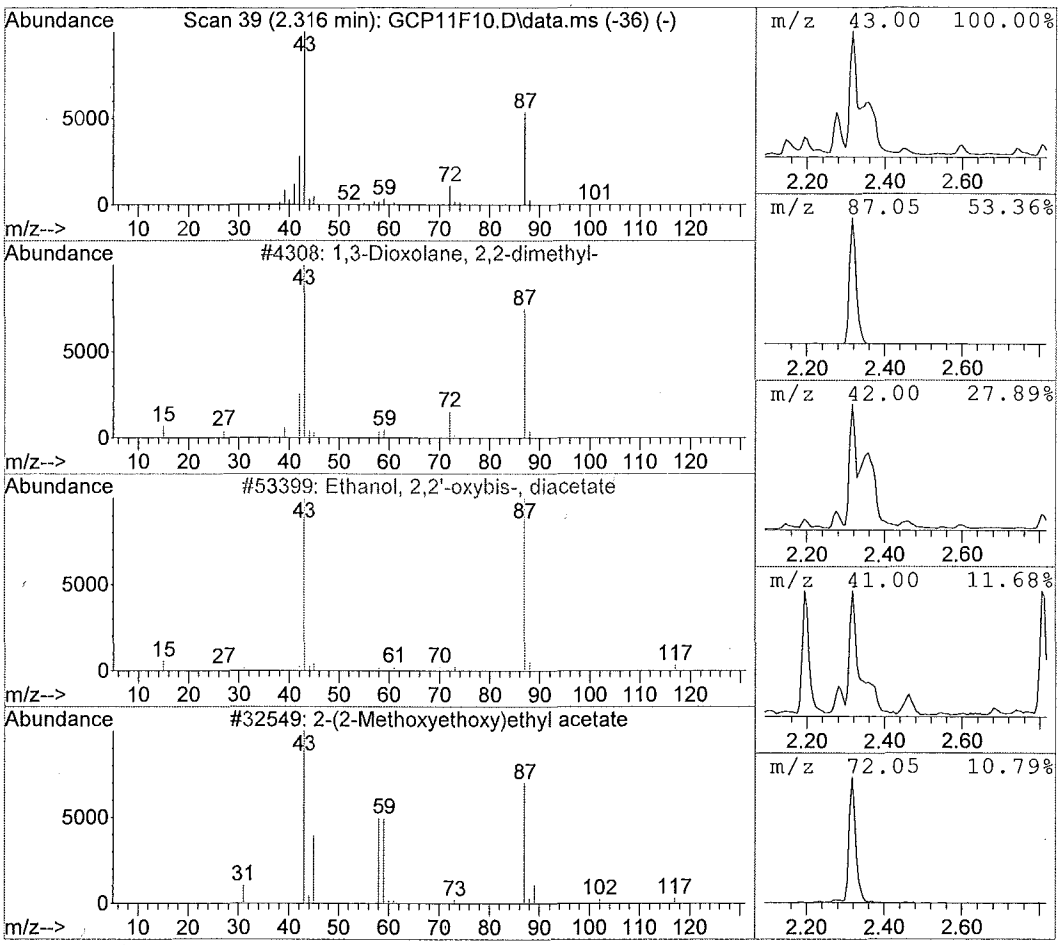
Data File : R:\G\2015\JUL15\10JUL15\GCP11F10.D
Acq On : 07/10/2015 15:02
Sample : 1515542010 F9M28
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 8
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
2.32	11.09 ug/ml	1359909	1,4-Dichlorobenzene-d4	2452611

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,3-Dioxolane, 2,2-dimethyl-	4308	002916-31-6	64.00
2	Ethanol, 2,2'-oxybis-, diacetate	53399	000628-68-2	42.00
3	2-(2-Methoxyethoxy)ethyl acetate	32549	1000351-95-4	28.00
4	Ethanol, 2,2'-[1,2-ethanediylbis(ox	88551	000111-21-7	23.00
5	Acetamide, N-ethyl-	1880	000625-50-3	9.00

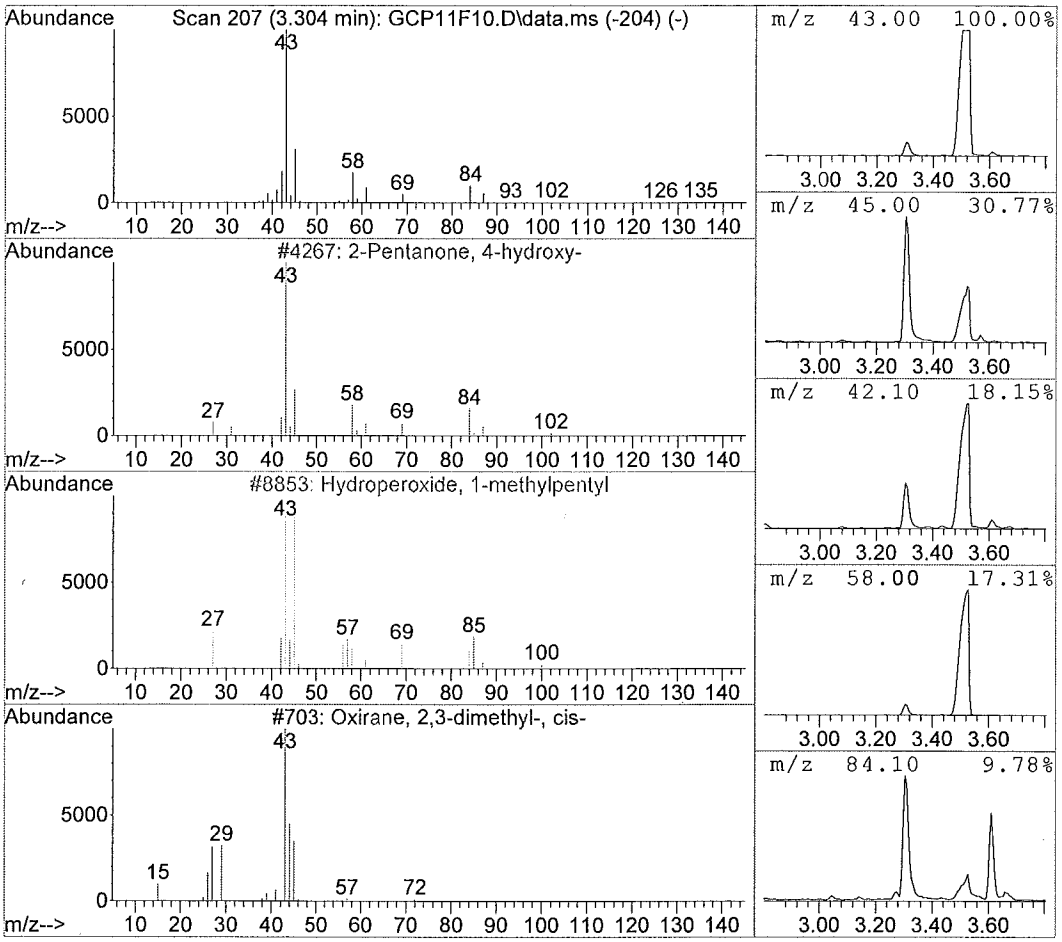


Data File : R:\G\2015\JUL15\10JUL15\GCP11F10.D Vial: 8
Acq On : 07/10/2015 15:02 Operator: TJM
Sample : 1515542010 F9M28 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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	22.30 ug/ml	2734347	1,4-Dichlorobenzene-d4	2452611

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	39.00
2	Hydroperoxide, 1-methylpentyl	8853	024254-55-5	33.00
3	Oxirane, 2,3-dimethyl-, cis-	703	001758-33-4	17.00
4	2,3-Epoxybutane	677	003266-23-7	17.00
5	Acetone	214	000067-64-1	9.00



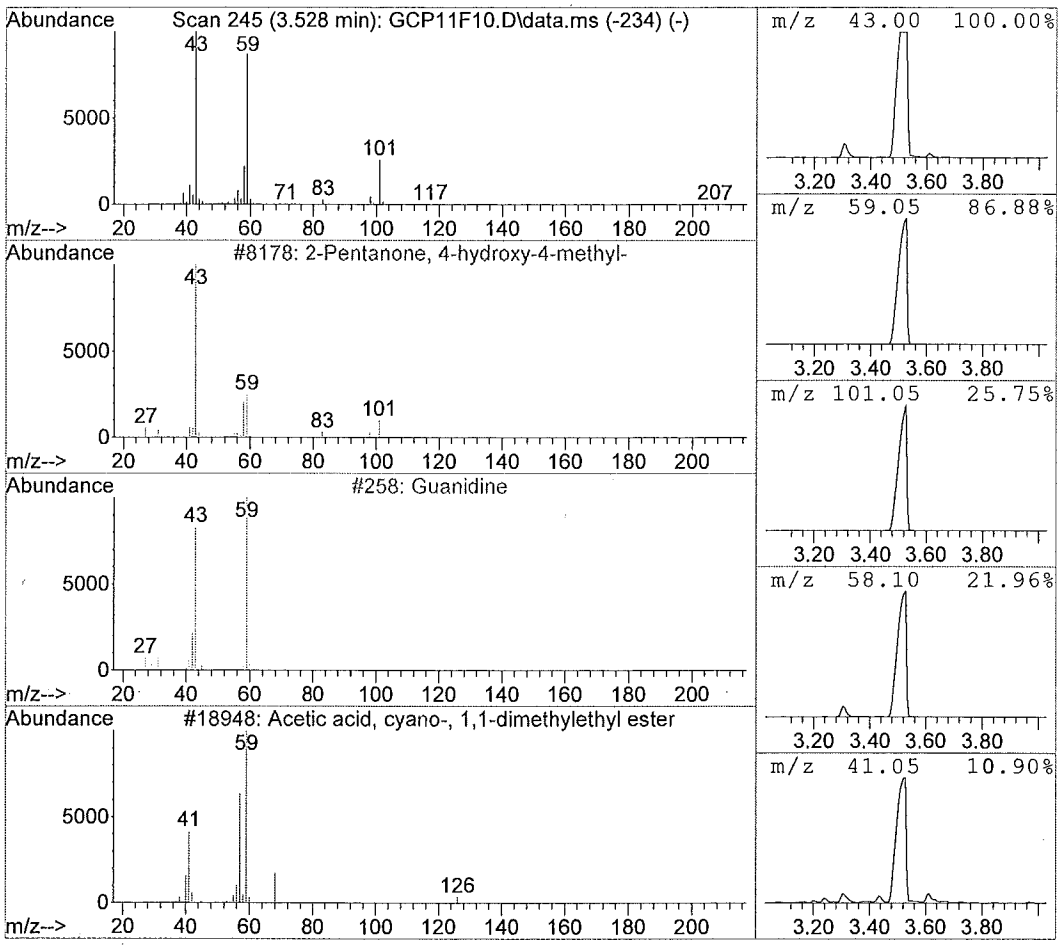
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP11F10.D Vial: 8
Acq On : 07/10/2015 15:02 Operator: TJM
Sample : 1515542010 F9M28 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
3.53	482.45 ug/ml	59162771	1,4-Dichlorobenzene-d4	2452611

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8178	000123-42-2	50.00
2	Guanidine	258	000113-00-8	49.00
3	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	28.00
4	Acetone	217	000067-64-1	9.00
5	2,3-Butanedione, monooxime	4030	000057-71-6	9.00



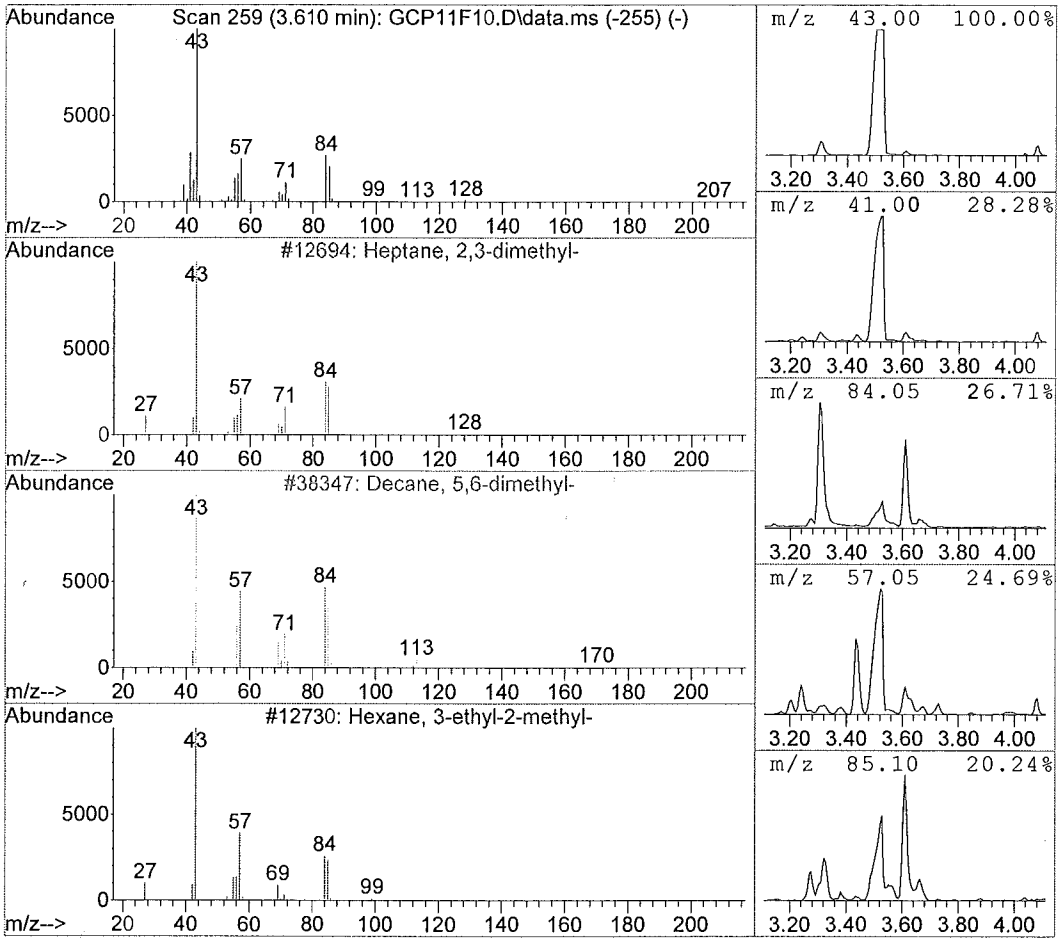
Data File : R:\G\2015\JUL15\10JUL15\GCP11F10.D Vial: 8
Acq On : 07/10/2015 15:02 Operator: TJM
Sample : 1515542010 F9M28 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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
3.61	7.02 ug/ml	860877	1,4-Dichlorobenzene-d4	2452611

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12694	003074-71-3	91.00
2	Decane, 5,6-dimethyl-	38347	001636-43-7	74.00
3	Hexane, 3-ethyl-2-methyl-	12730	016789-46-1	59.00
4	Ether, hexyl pentyl	39799	032357-83-8	53.00
5	Octane, 4-methyl-	12674	002216-34-4	50.00

BA



Library Search Compound Report

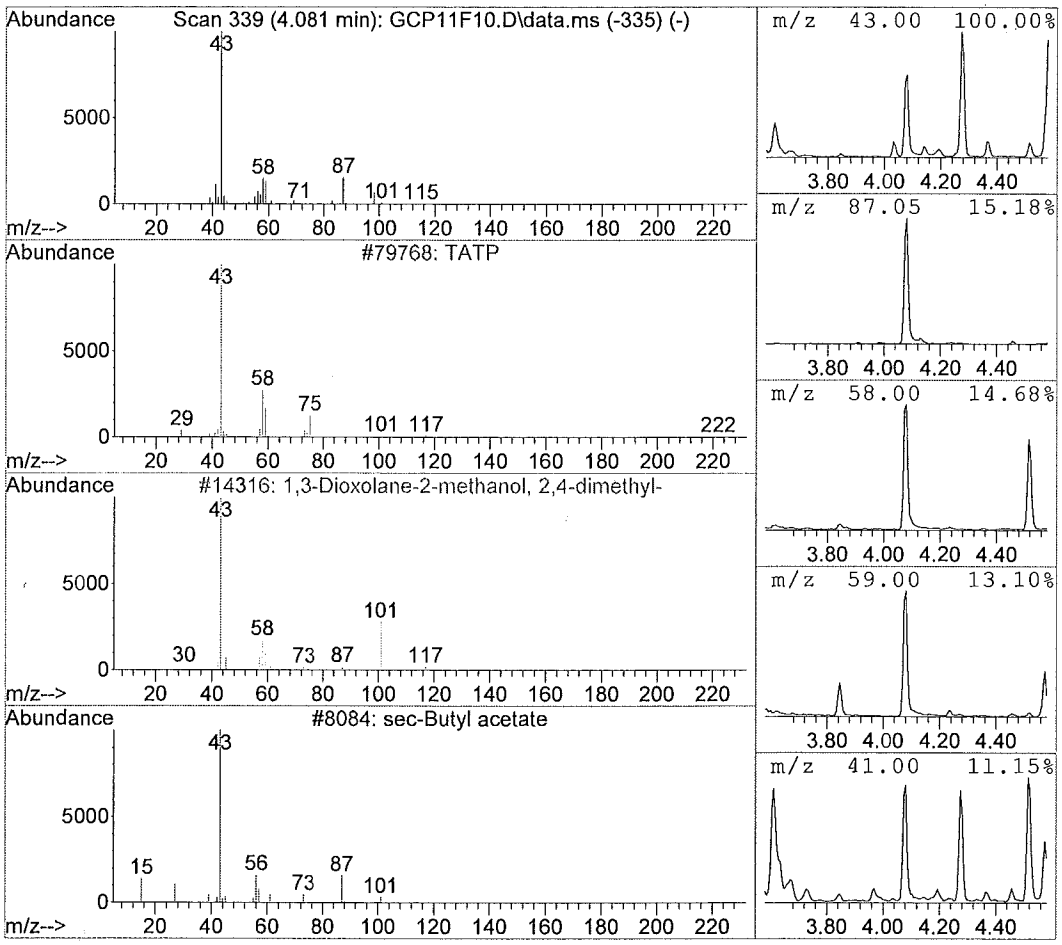
Data File : R:\G\2015\JUL15\10JUL15\GCP11F10.D
Acq On : 07/10/2015 15:02
Sample : 1515542010 F9M28
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 8
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
4.08	10.73 ug/ml	1315547	1,4-Dichlorobenzene-d4	2452611

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	TATP	79768	017088-37-8	50.00
2	1,3-Dioxolane-2-methanol, 2,4-dimet	14316	053951-43-2	33.00
3	sec-Butyl acetate	8084	000105-46-4	25.00
4	S-(-)-2-Methylbutylamine	1929	020626-52-2	9.00
5	1-Pentanamine	1907	000110-58-7	9.00



Library Search Compound Report

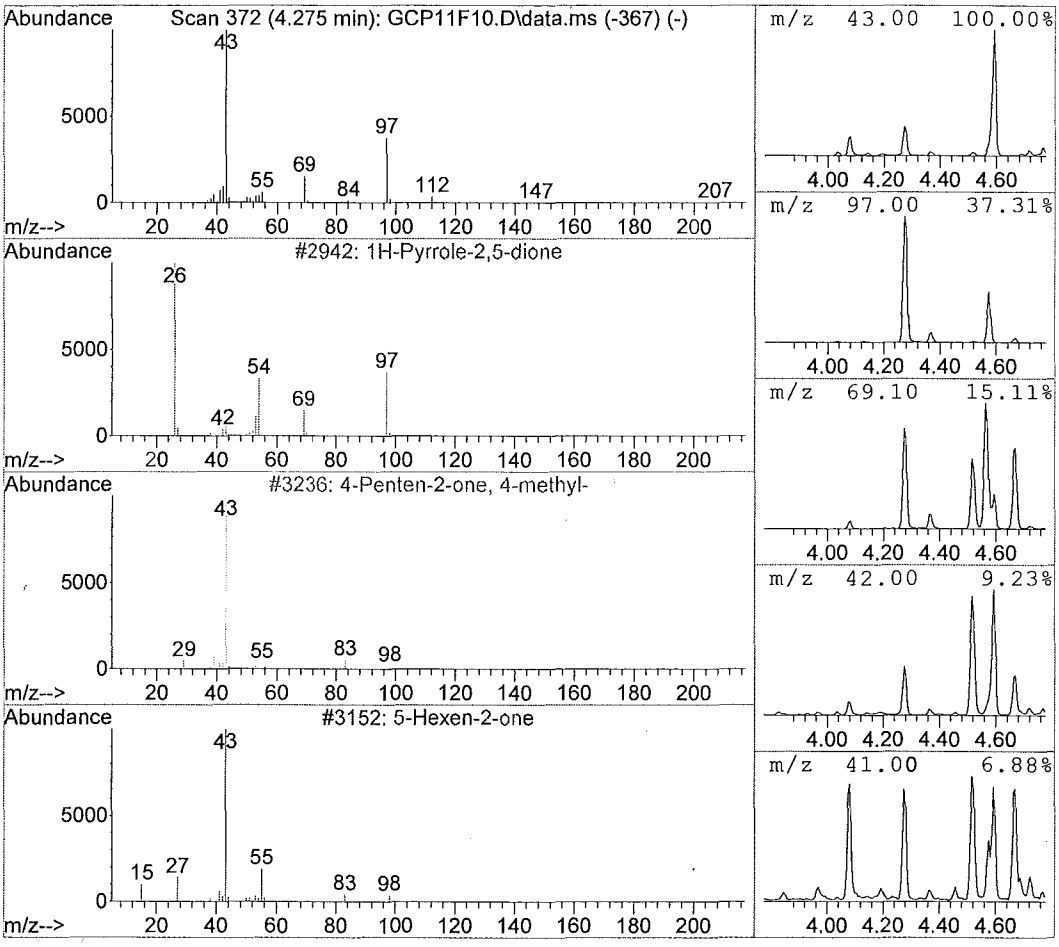
Data File : R:\G\2015\JUL15\10JUL15\GCP11F10.D
Acq On : 07/10/2015 15:02
Sample : 1515542010 F9M28
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 8
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	16.08 ug/ml	1972126	1,4-Dichlorobenzene-d4	2452611

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	37.00
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	5-Hexen-2-one, 5-methyl-	6517	003240-09-3	5.00
5	2-Propyn-1-ol, acetate	3098	000627-09-8	5.00



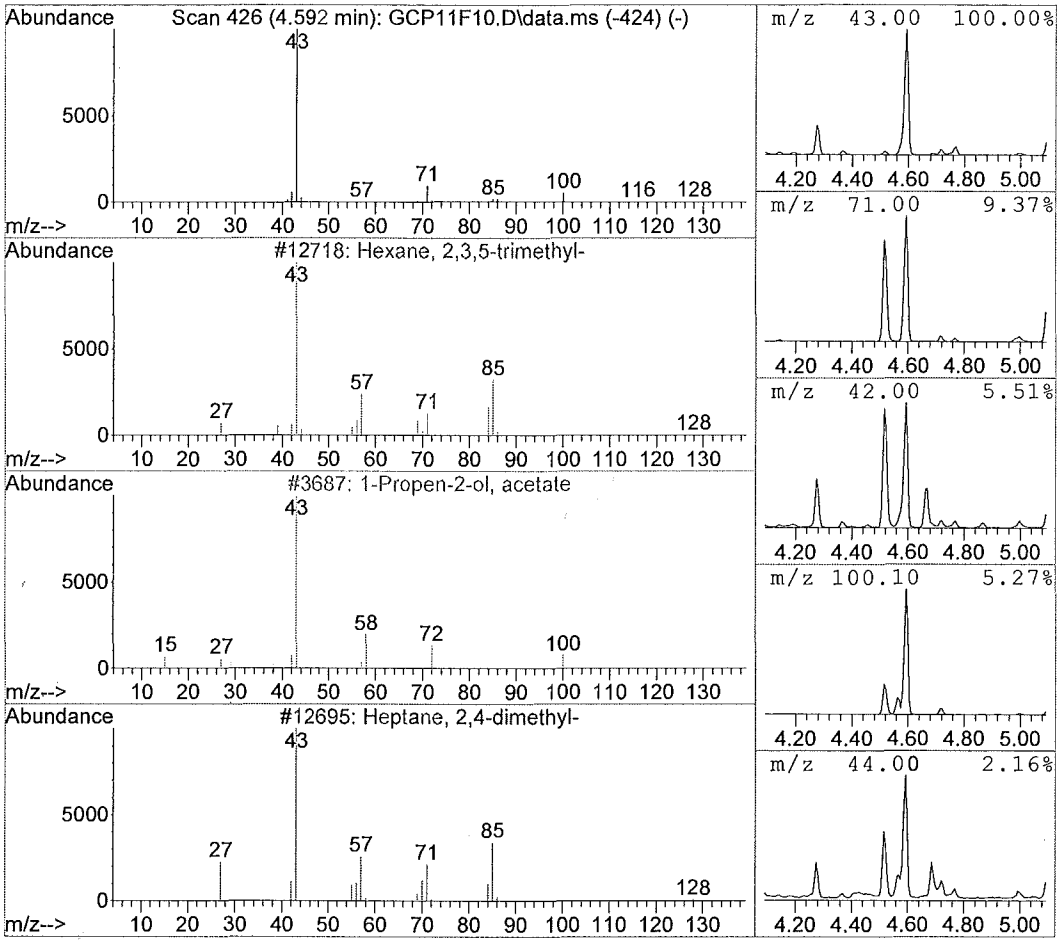
Data File : R:\G\2015\JUL15\10JUL15\GCP11F10.D Vial: 8
Acq On : 07/10/2015 15:02 Operator: TJM
Sample : 1515542010 F9M28 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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	39.21 ug/ml	4808730	1,4-Dichlorobenzene-d4	2452611

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	7.00
2	1-Propen-2-ol, acetate	3687	000108-22-5	5.00
3	Heptane, 2,4-dimethyl-	12695	002213-23-2	5.00
4	Heptane	3971	000142-82-5	5.00
5	Hexane, 2,3,4-trimethyl-	12706	000921-47-1	5.00

BA



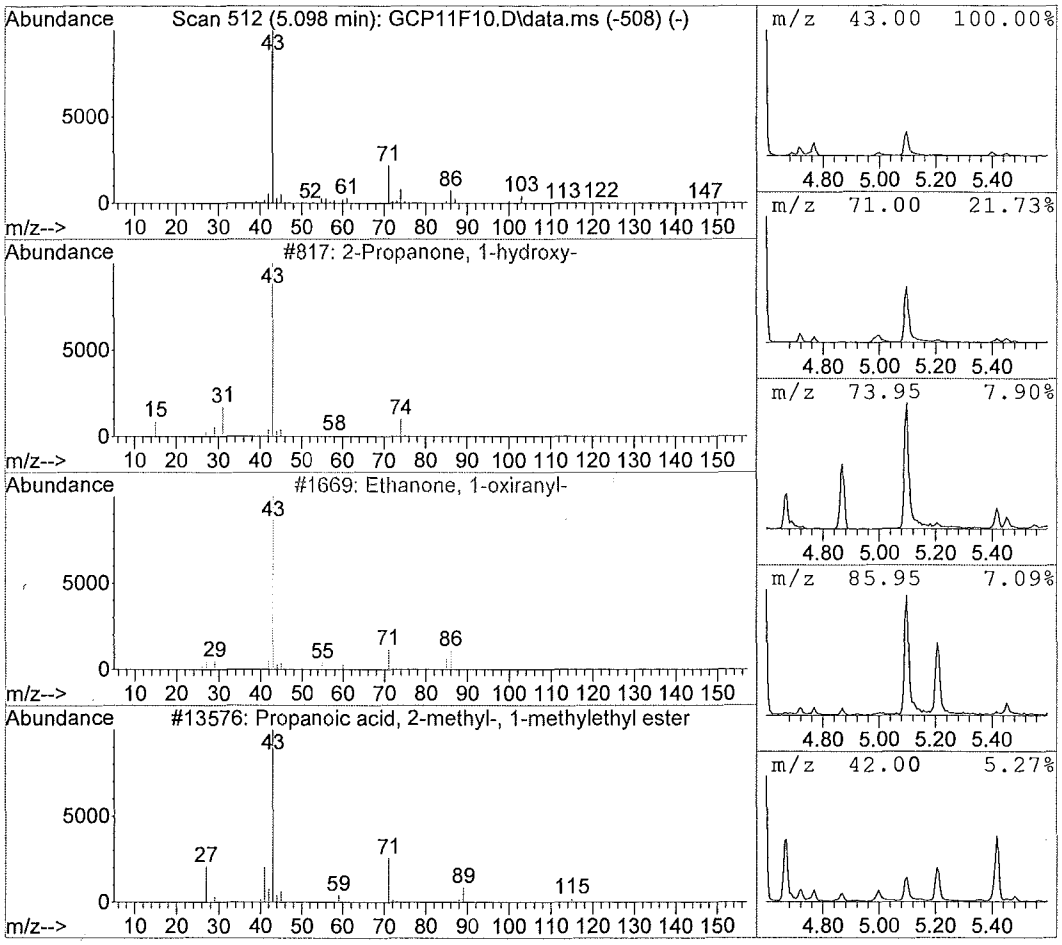
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP11F10.D Vial: 8
Acq On : 07/10/2015 15:02 Operator: TJM
Sample : 1515542010 F9M28 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
5.10	8.26 ug/ml	1013063	1,4-Dichlorobenzene-d4	2452611

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propanone, 1-hydroxy-	817	000116-09-6	22.00
2	Ethanone, 1-oxiranyl-	1669	004401-11-0	10.00
3	Propanoic acid, 2-methyl-, 1-methyl	13576	000617-50-5	9.00
4	2,3-Butanedione	1661	000431-03-8	9.00
5	1,2-Epoxy-3-propyl acetate	8036	006387-89-9	9.00



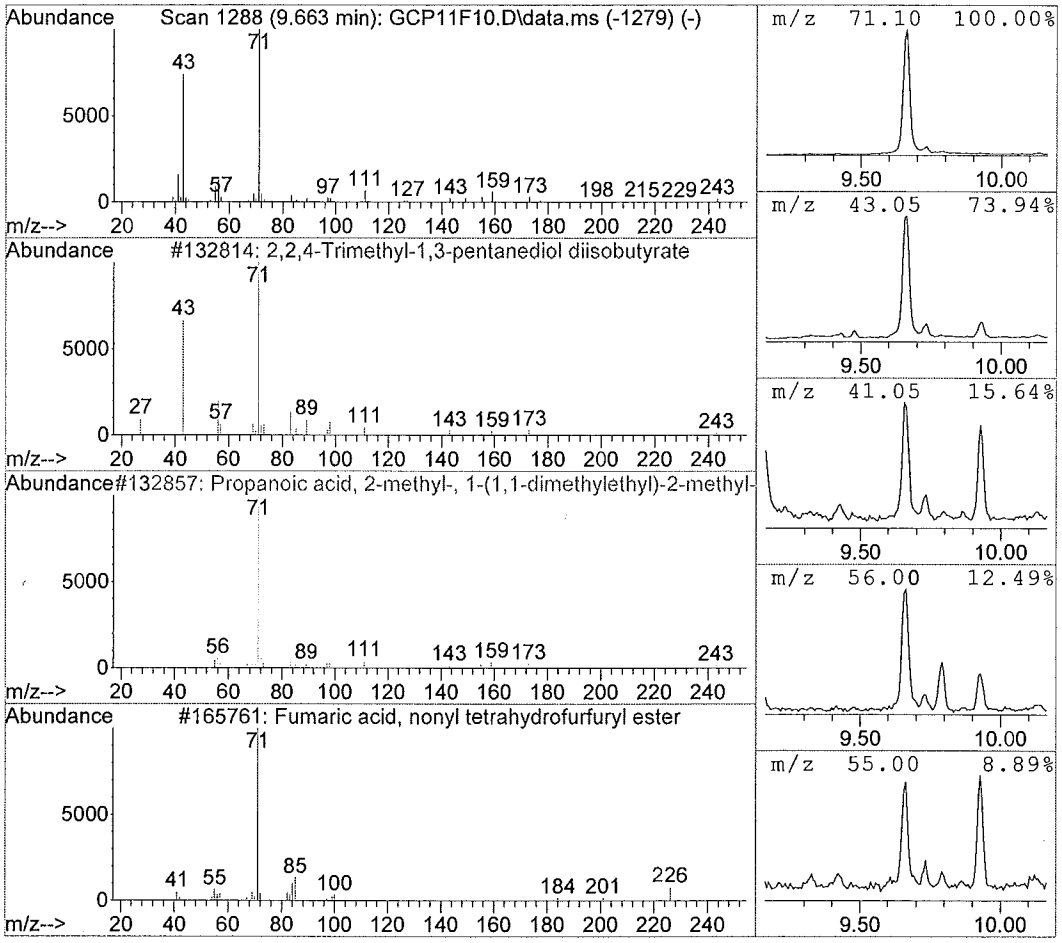
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP11F10.D Vial: 8
Acq On : 07/10/2015 15:02 Operator: TJM
Sample : 1515542010 F9M28 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	4.32 ug/ml	685421	Acenaphthene-d10	3176224

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,2,4-Trimethyl-1,3-pentanediol dii	132814	006846-50-0	56.00
2	Propanoic acid, 2-methyl-, 1-(1,1-d	132857	074381-40-1	45.00
3	Fumaric acid, nonyl tetrahydrofurfu	165761	1000330-58-3	40.00
4	2,2'-Bifuran, octahydro-	19660	001592-33-2	39.00
5	Butane, 2-iodo-3-methyl-	59962	018295-27-7	39.00



Library Search Compound Report

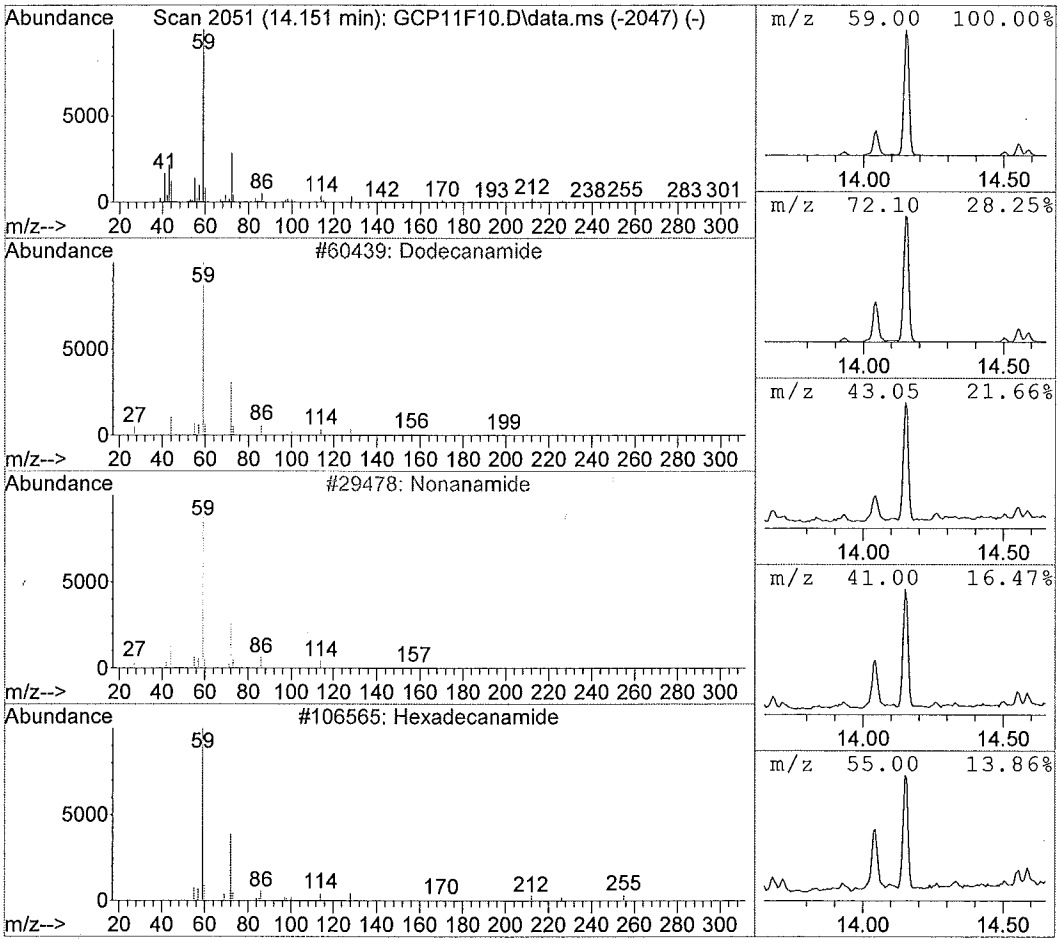
Data File : R:\G\2015\JUL15\10JUL15\GCP11F10.D
Acq On : 07/10/2015 15:02
Sample : 1515542010 F9M28
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 8
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	11.02 ug/ml	1899101	Chrysene-d12	3445749

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	90.00
2	Nonanamide	29478	001120-07-6	87.00
3	Hexadecanamide	106565	000629-54-9	86.00
4	Undecanamide, 11-bromo-	112862	005875-26-3	78.00
5	Decanamide-	38977	002319-29-1	74.00



00257

Library Search Compound Report

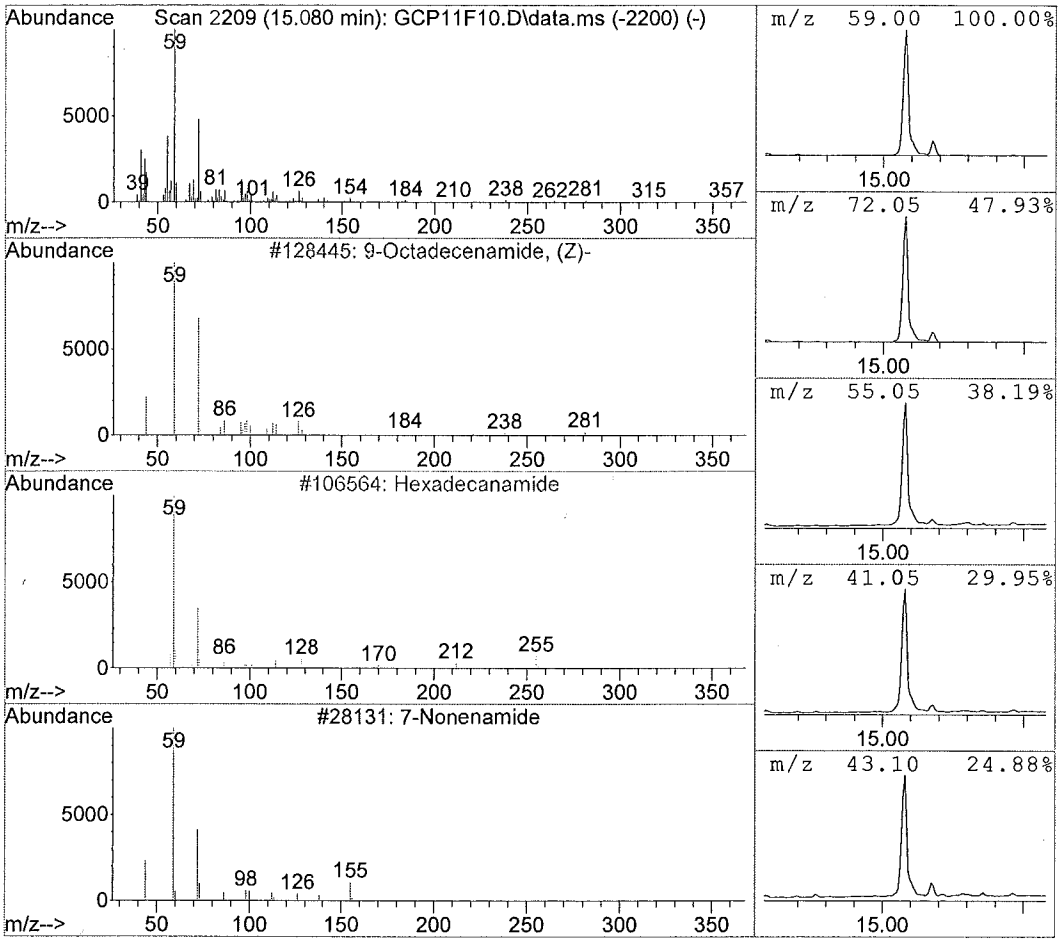
Data File : R:\G\2015\JUL15\10JUL15\GCP11F10.D
Acq On : 07/10/2015 15:02
Sample : 1515542010 F9M28
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 8
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
15.08	61.44 ug/ml	10585796	Chrysene-d12	3445749

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	98.00
2	Hexadecanamide	106564	000629-54-9	80.00
3	7-Nonenamide	28131	090949-53-4	72.00
4	Pentanamide	4064	000626-97-1	64.00
5	Tetradecanamide	83608	000638-58-4	56.00



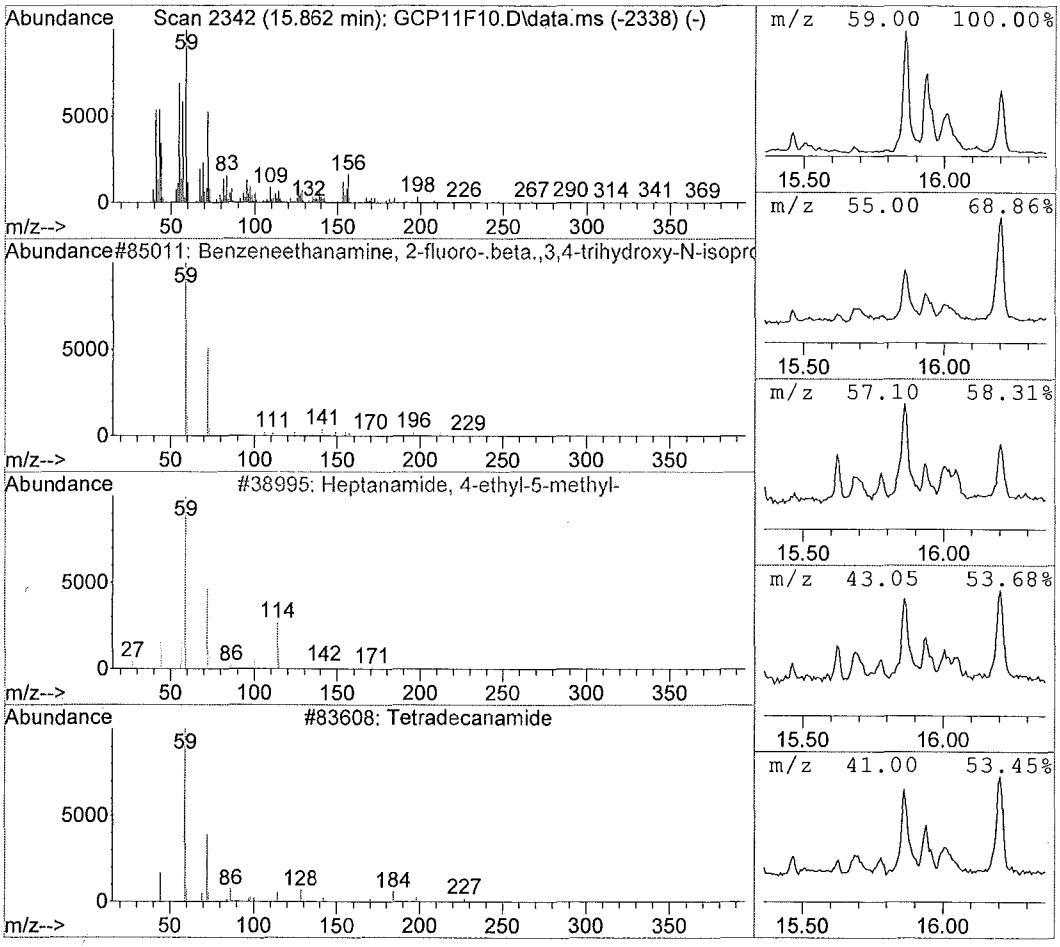
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP11F10.D Vial: 8
Acq On : 07/10/2015 15:02 Operator: TJM
Sample : 1515542010 F9M28 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	4.83 ug/ml	832981	Chrysene-d12	3445749

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	58.00
2	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	52.00
3	Tetradecanamide	83608	000638-58-4	50.00
4	9-Octadecenamide, (Z)-	128443	000301-02-0	50.00
5	Octadecanamide	130204	000124-26-5	49.00



Library Search Compound Report

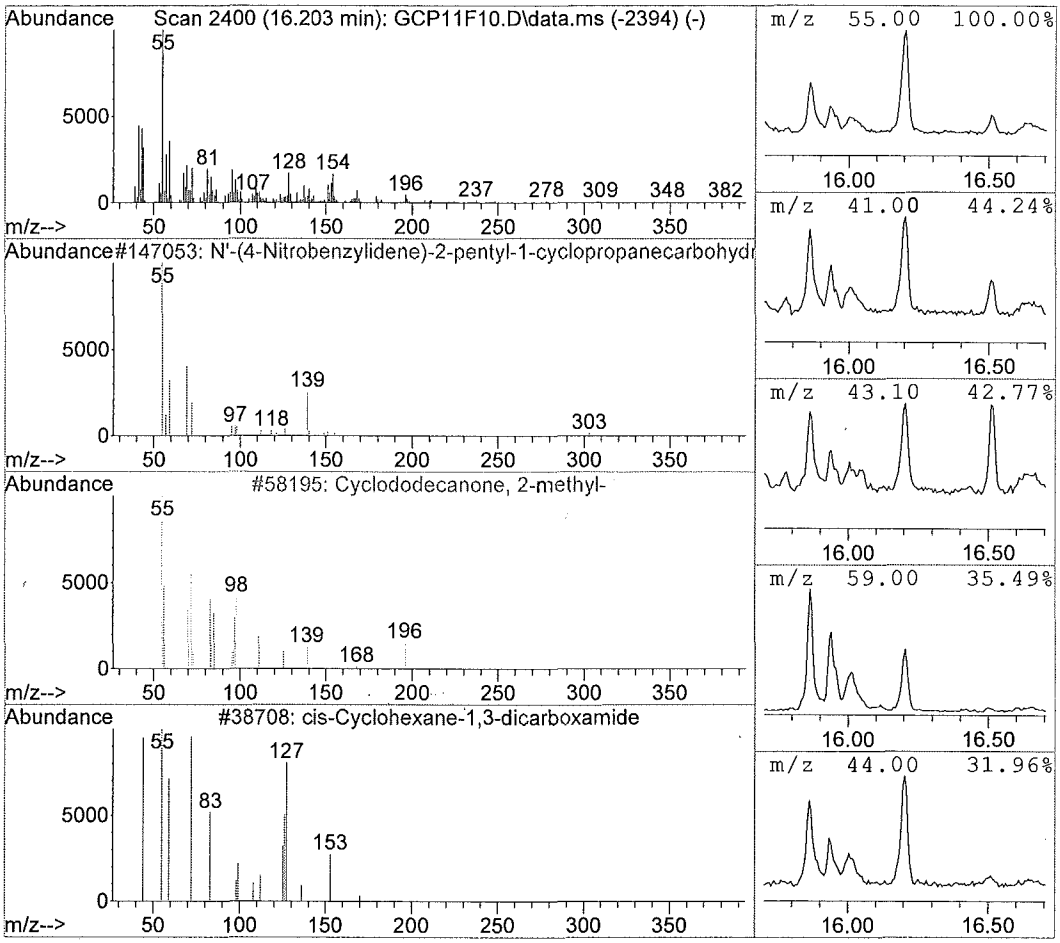
Data File : R:\G\2015\JUL15\10JUL15\GCP11F10.D
Acq On : 07/10/2015 15:02
Sample : 1515542010 F9M28
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 8
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	7.78 ug/ml	1339889	Chrysene-d12	3445749

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	N'-(4-Nitrobenzylidene)-2-pentyl-1-	147053	339027-09-7	16.00
2	Cyclododecanone, 2-methyl-	58195	016837-94-8	14.00
3	cis-Cyclohexane-1,3-dicarboxamide	38708	1000143-74-8	12.00
4	7,7-Dimethyl-2,3-dioxobicyclo[2.2.1	69071	040724-68-3	11.00
5	2-Nonenal, 2-pentyl-	69499	003021-89-4	10.00



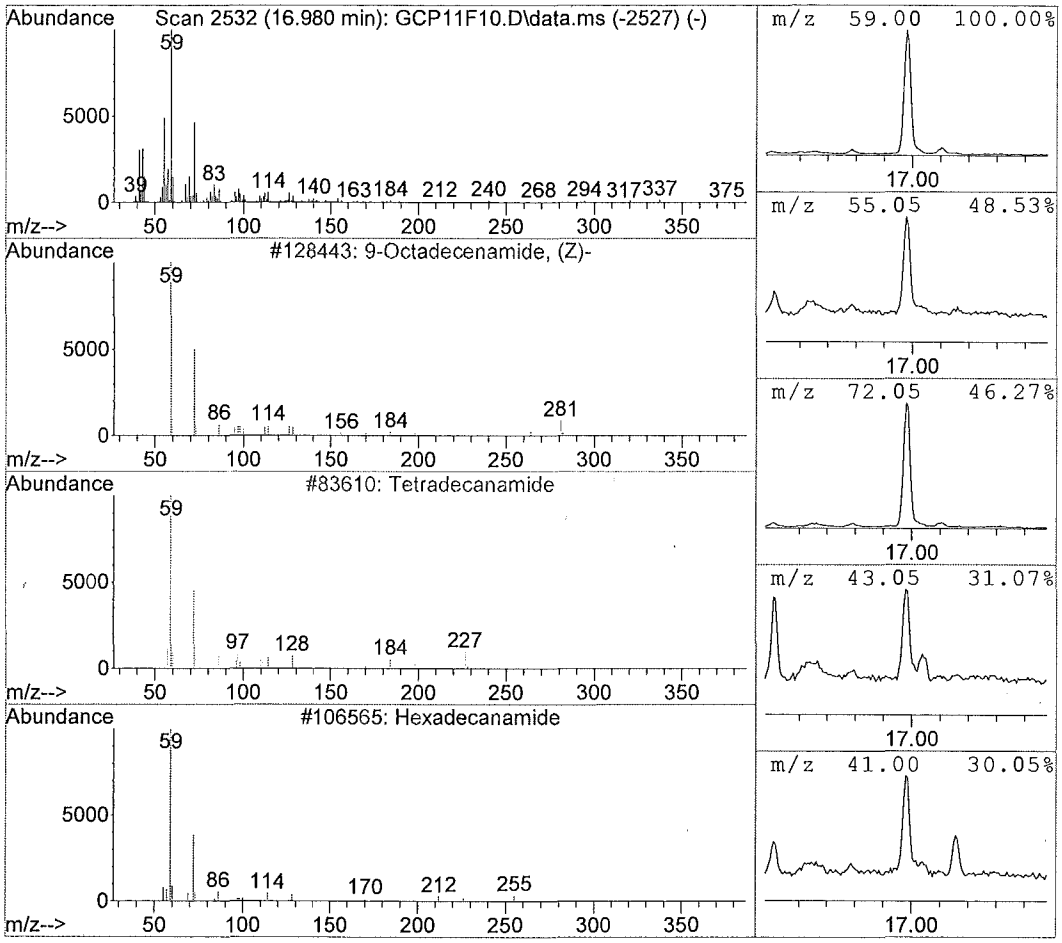
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP11F10.D Vial: 8
Acq On : 07/10/2015 15:02 Operator: TJM
Sample : 1515542010 F9M28 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	9.70 ug/ml	1311165	Perylene-d12	2704305

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	90.00
2	Tetradecanamide	83610	000638-58-4	72.00
3	Hexadecanamide	106565	000629-54-9	56.00
4	Nonanamide	29478	001120-07-6	53.00
5	Dodecanamide	60440	001120-16-7	53.00



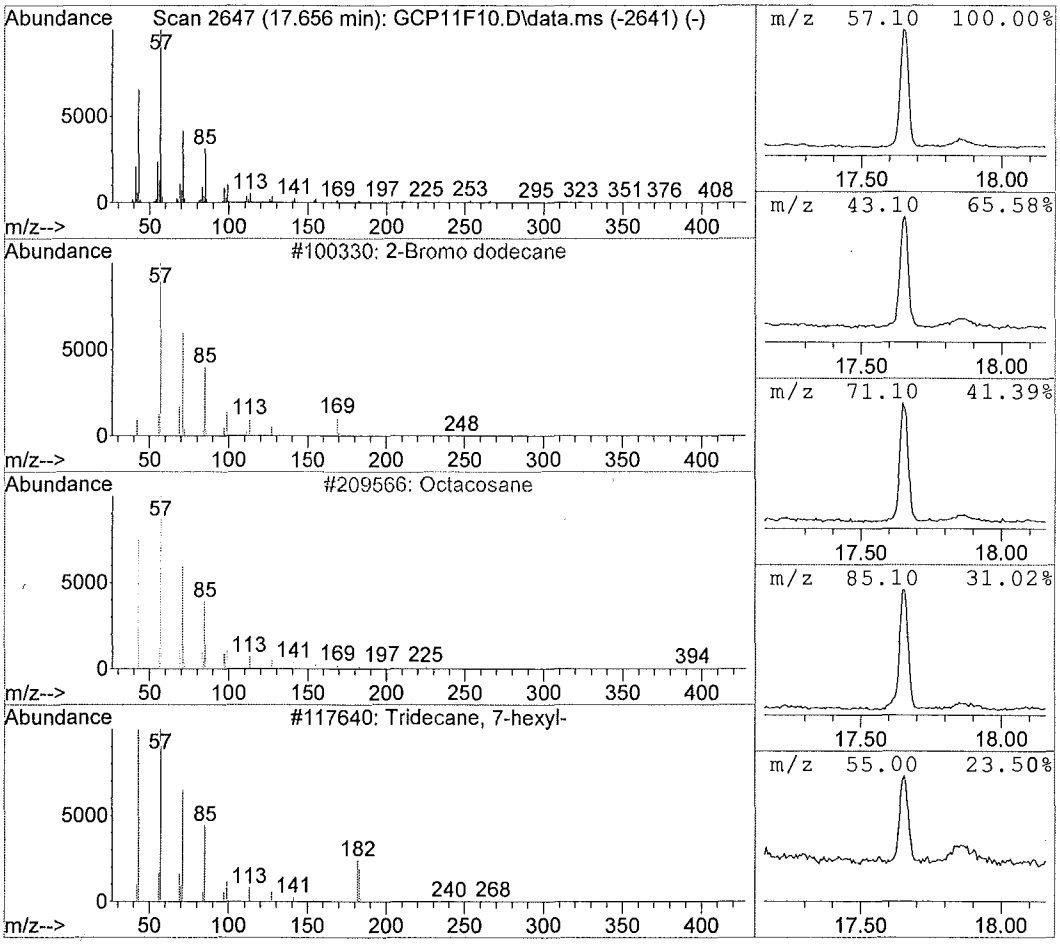
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP11F10.D Vial: 8
Acq On : 07/10/2015 15:02 Operator: TJM
Sample : 1515542010 F9M28 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	12.62 ug/ml	1706498	Perylene-d12	2704305

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Bromo dodecane	100330	013187-99-0	91.00
2	Octacosane	209566	000630-02-4	91.00
3	Tridecane, 7-hexyl-	117640	007225-66-3	87.00
4	Hexadecane	83025	000544-76-3	87.00
5	Hexacosane	194493	000630-01-3	87.00



Library Search Compound Report

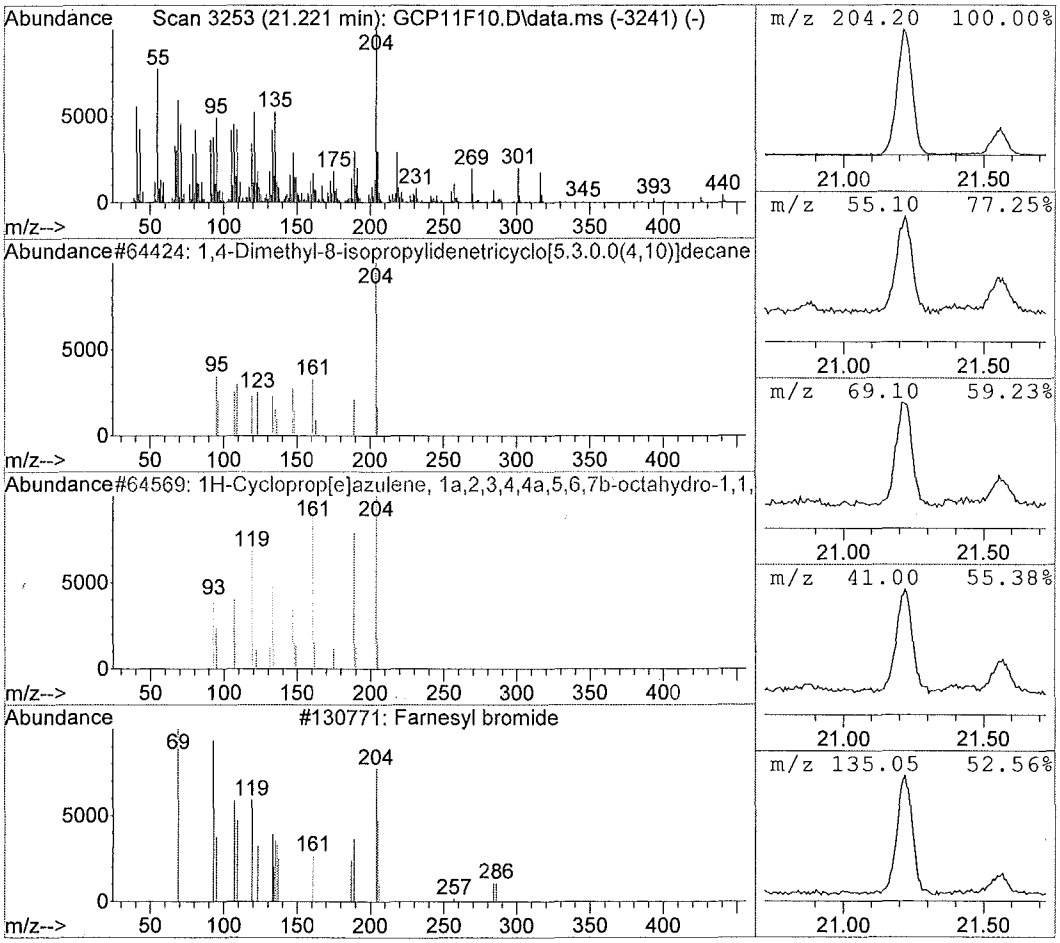
Data File : R:\G\2015\JUL15\10JUL15\GCP11F10.D
Acq On : 07/10/2015 15:02
Sample : 1515542010 F9M28
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 8
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
21.22	32.70 ug/ml	4421578	Perylene-d12	2704305

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,4-Dimethyl-8-isopropylidenetricyc	64424	1000140-07-7	60.00
2	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	64569	000489-40-7	50.00
3	Farnesyl bromide	130771	006874-67-5	46.00
4	2H-Cyclopentacyclooctene, 4,5,6,7,8	64452	1000221-85-8	43.00
5	Aromandendrene	64276	000489-39-4	38.00



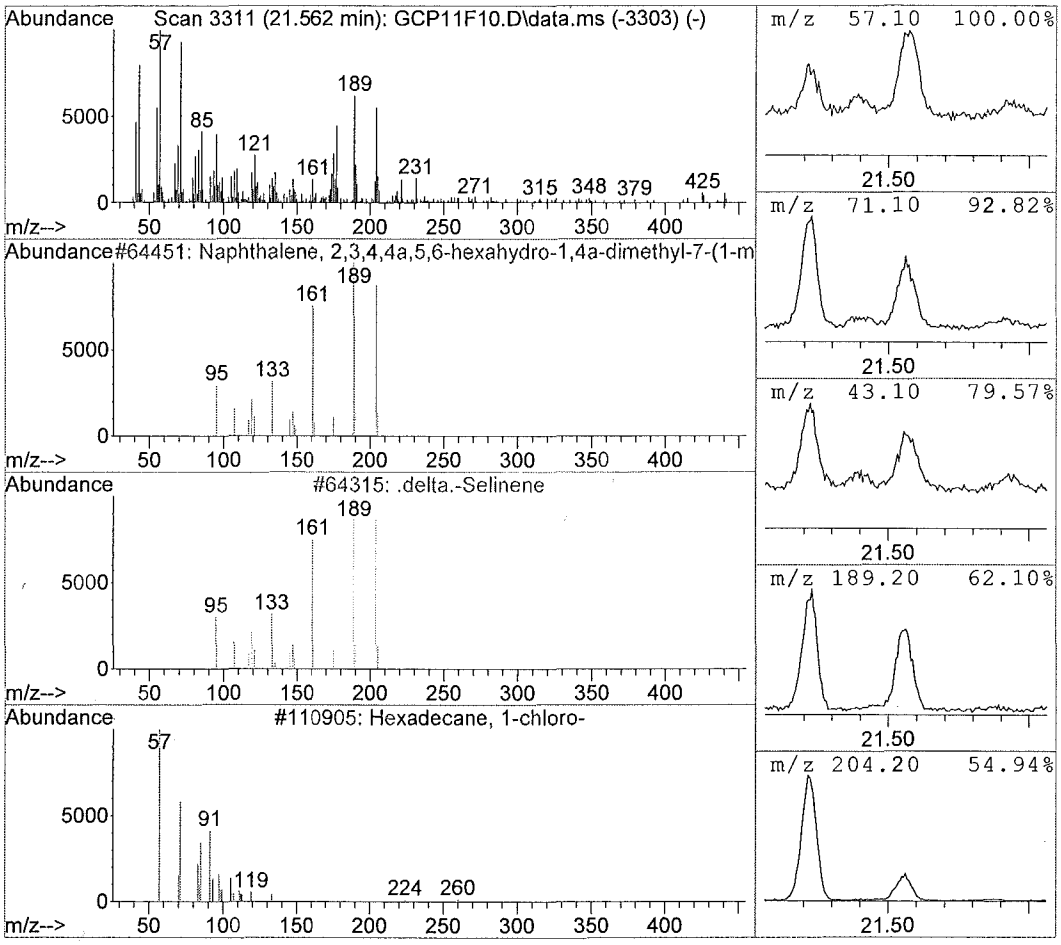
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP11F10.D Vial: 8
Acq On : 07/10/2015 15:02 Operator: TJM
Sample : 1515542010 F9M28 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	10.87 ug/ml	1469903	Perylene-d12	2704305

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, 2,3,4,4a,5,6-hexahydro	64451	000473-14-3	30.00
2	.delta.-Selinene	64315	028624-23-9	30.00
3	Hexadecane, 1-chloro-	110905	004860-03-1	25.00
4	Tridecane, 1-iodo-	152416	035599-77-0	25.00
5	Tridecane, 4-methyl-	59892	026730-12-1	25.00



: 002714

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M29

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GCP12F11

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

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

GPC Cleanup: (Y/N) Y pH: 8.2 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.

F9M29

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GCP12F11

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

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

GPC Cleanup: (Y/N) Y pH: 8.2 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.

F9M29

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GCP12F11

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

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

GPC Cleanup: (Y/N) Y pH: 8.2 Dilution Factor: 1.0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 1,3-Dioxolane, 2,2-dimethyl-	2.32	1400	J
02		Unknown 2-Pentanone, 4-hydroxy-	3.31	1100	JB
03		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.53	23000	JB
04		Unknown TATP	4.08	510	J
05		Unknown 1H-Pyrrole-2,5-dione	4.27	540	J
06	1120-16-7	Dodecanamide	14.15	400	JN
07	301-02-0	9-Octadecenamide, (Z)-	15.08	2900	JNB
08		Unknown E,E,Z-1,3,12-Nonadecatriene-5,14-diol	16.20	220	J
09	301-02-0	9-Octadecenamide, (Z)-	16.98	1500	JN
10		Unknown D-Friedoolean-14-ene, 3-methoxy-, (3.bet	21.22	1300	J
11		Unknown .delta.-Selinene	21.55	290	J
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	2100	J

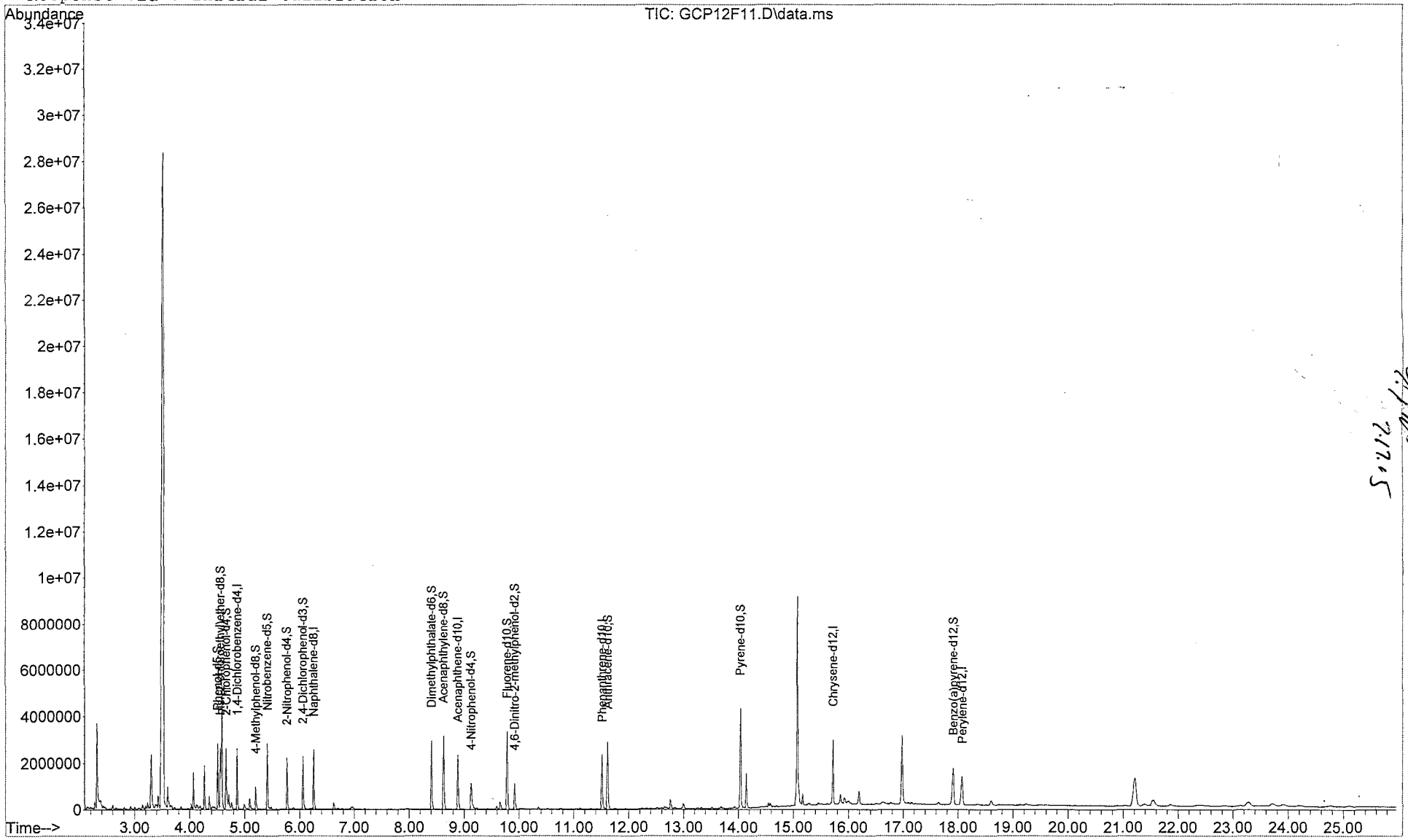
[2] EPA-designated Registry Number.

Quantitation Report

Data File : R:\G\2015\JUL15\10JUL15\GCP12F11.D Vial: 9
Acq On : 07/10/2015 15:35 Operator: TJM
Sample : 1515542011 F9M29 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jul 17 08:47:19 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\10JUL15\GCP12F11.D Vial: 9
Acq On : 07/10/2015 15:35 Operator: TJM
Sample : 1515542011 F9M29 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 17 08:47:19 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	329399	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1226285	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	711024	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1197735	20.00 ug/ml
73) Chrysene-d12	15.73	240	1141429	20.00 ug/ml
81) Perylene-d12	18.08	264	905892	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.52	99	790123	27.564ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	604489	27.060ug/mL
7) 2-Chlorophenol-d4	4.67	132	638643	26.387ug/ml
13) 4-Methylphenol-d8	5.20	113	185749	9.688ug/mL
17) Nitrobenzene-d5	5.42	128	315365	29.275ug/ml
21) 2-Nitrophenol-d4	5.77	143	344502	30.255ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	467888	26.389ug/mL
28) 4-Chloroaniline-d4	6.34	131	6059	0.313ug/mL
42) Dimethylphthalate-d6	8.42	166	1429601	32.064ug/mL
45) Acenaphthylene-d8	8.63	160	1793191	29.595ug/mL
50) 4-Nitrophenol-d4	9.13	143	261375	28.736ug/mL
57) Fluorene-d10	9.79	176	1201747	31.562ug/mL
61) 4,6-Dinitro-2-methylphenol	9.93	200	177139	20.837ug/mL
69) Anthracene-d10	11.62	188	1757177	27.665ug/mL
75) Pyrene-d10	14.04	212	1745126	30.636ug/mL
86) Benzo(a)pyrene-d12	17.92	264	1093350	25.188ug/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)

00279

Quantitation Report

Data File : R:\G\2015\JUL15\10JUL15\GCP12F11.D Vial: 9
Acq On : 07/10/2015 15:35 Operator: TJM
Sample : 1515542011 F9M29 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 17 08:47:19 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

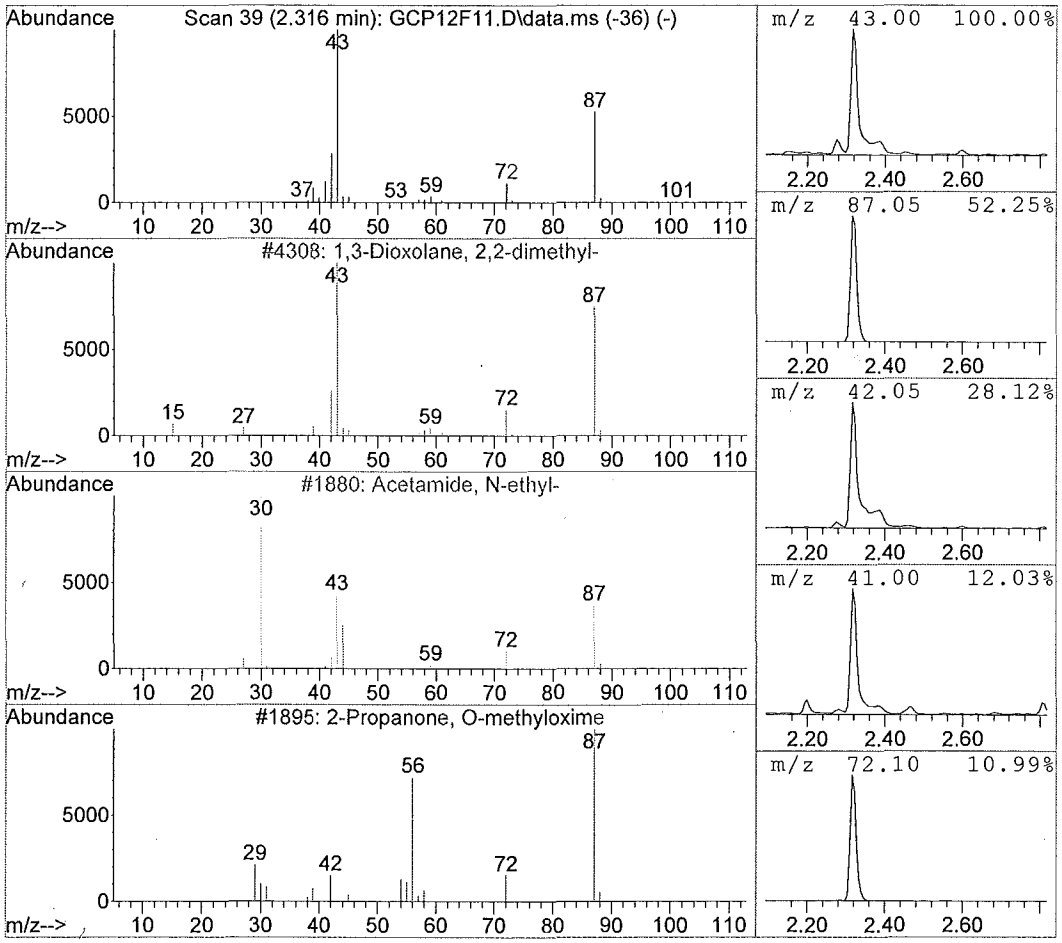
Data File : R:\G\2015\JUL15\10JUL15\GCP12F11.D
Acq On : 07/10/2015 15:35
Sample : 1515542011 F9M29
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 9
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
2.32	37.63 ug/ml	4492681	1,4-Dichlorobenzene-d4	2387750

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,3-Dioxolane, 2,2-dimethyl-	4308	002916-31-6	59.00
2	Acetamide, N-ethyl-	1880	000625-50-3	42.00
3	2-Propanone, O-methyloxime	1895	003376-35-0	37.00
4	Oxazolidin-2-one	1845	000497-25-6	9.00
5	Pentane	706	000109-66-0	9.00



00281

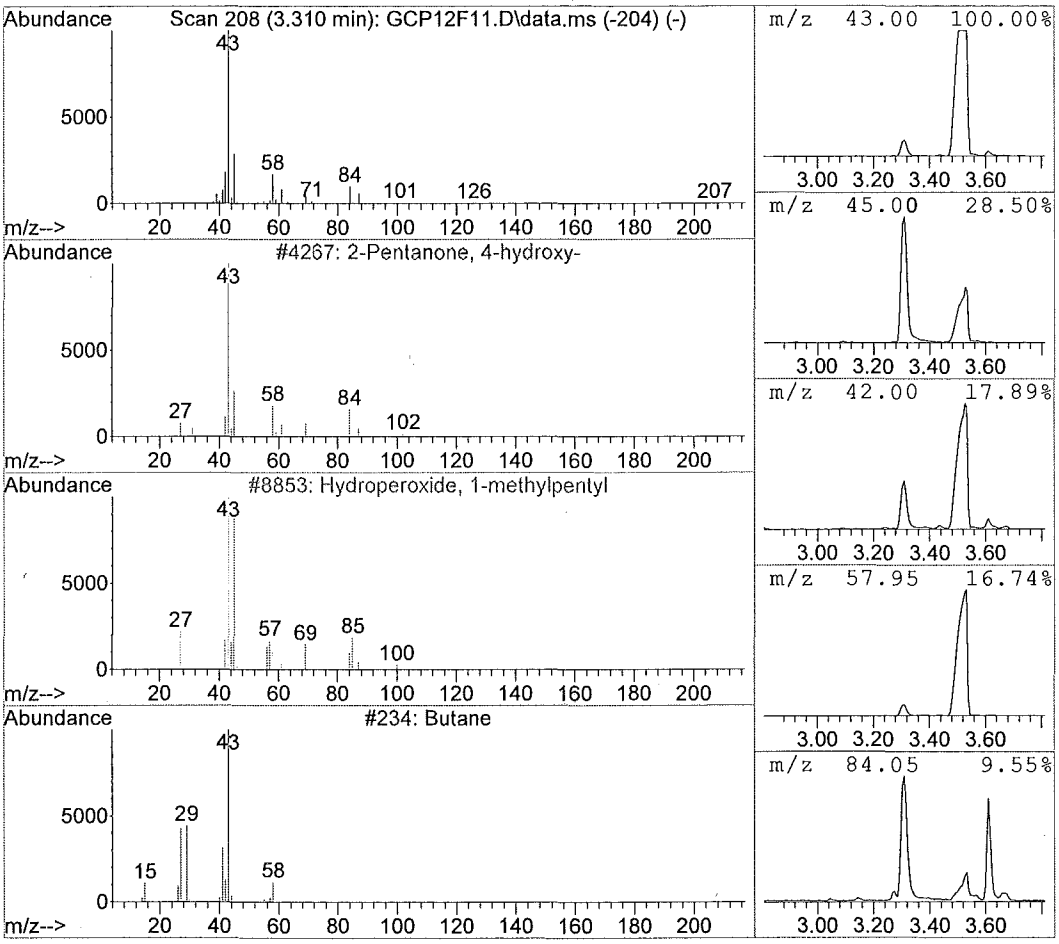
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP12F11.D Vial: 9
Acq On : 07/10/2015 15:35 Operator: TJM
Sample : 1515542011 F9M29 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
3.31	28.12 ug/ml	3357311	1,4-Dichlorobenzene-d4	2387750

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	234	000106-97-8	9.00
4	Acetone	213	000067-64-1	9.00
5	Isopropyl acetate	4253	000108-21-4	9.00



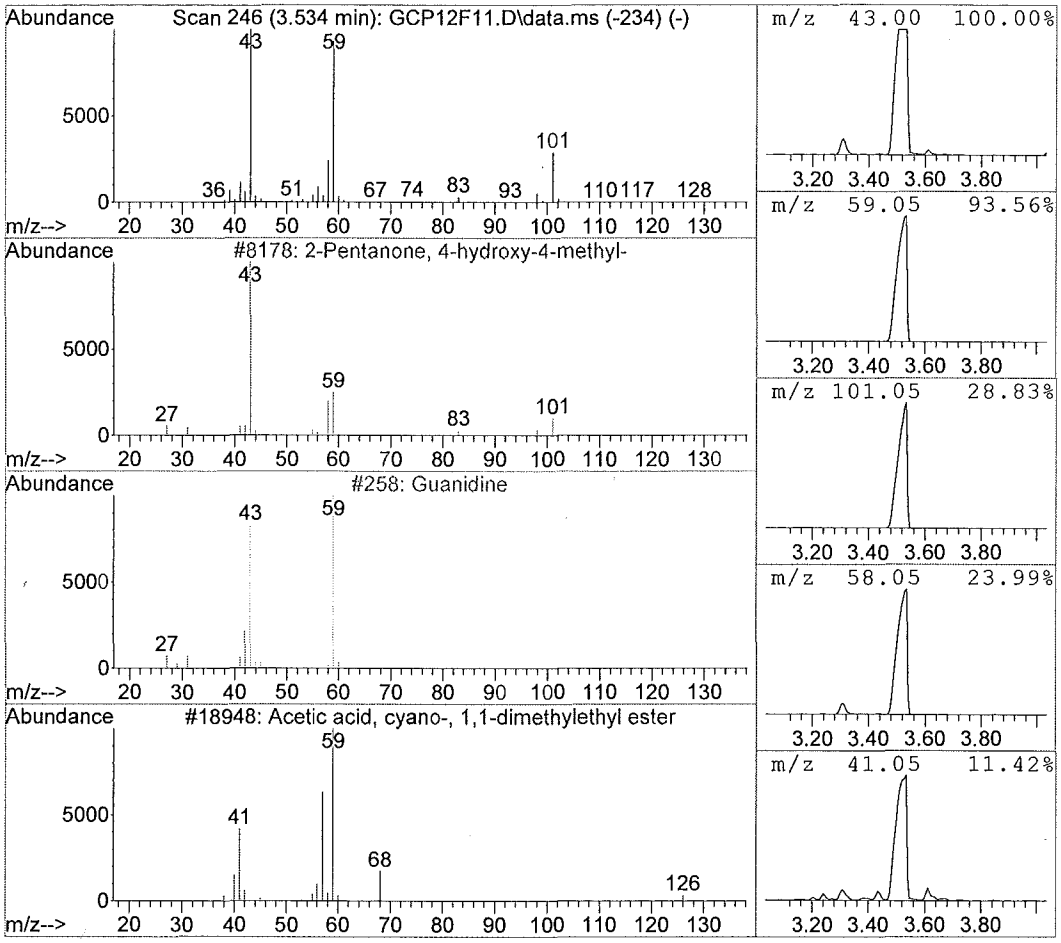
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP12F11.D Vial: 9
Acq On : 07/10/2015 15:35 Operator: TJM
Sample : 1515542011 F9M29 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
3.53	590.49 ug/ml	70496578	1,4-Dichlorobenzene-d4	2387750

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8178	000123-42-2	50.00
2	Guanidine	258	000113-00-8	49.00
3	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	28.00
4	Acetone	217	000067-64-1	9.00
5	Morpholine, 4-methyl-	4076	000109-02-4	9.00



Library Search Compound Report

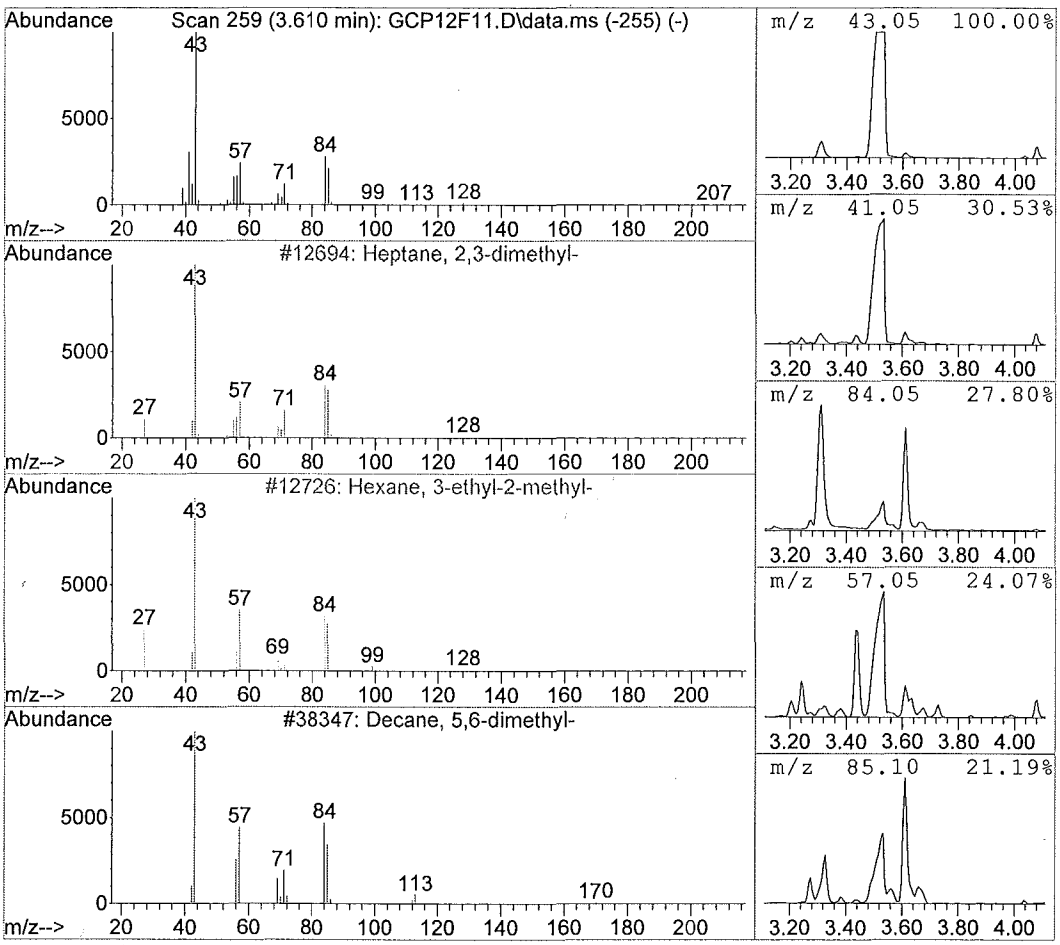
Data File : R:\G\2015\JUL15\10JUL15\GCP12F11.D Vial: 9
Acq On : 07/10/2015 15:35 Operator: TJM
Sample : 1515542011 F9M29 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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
3.61	9.04 ug/ml	1079496	1,4-Dichlorobenzene-d4	2387750

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12694	003074-71-3	91.00
2	Hexane, 3-ethyl-2-methyl-	12726	016789-46-1	87.00
3	Decane, 5,6-dimethyl-	38347	001636-43-7	83.00
4	1-Octene, 4-methyl-	11522	013151-12-7	78.00
5	Hexane, 3-ethyl-	7622	000619-99-8	59.00

BA



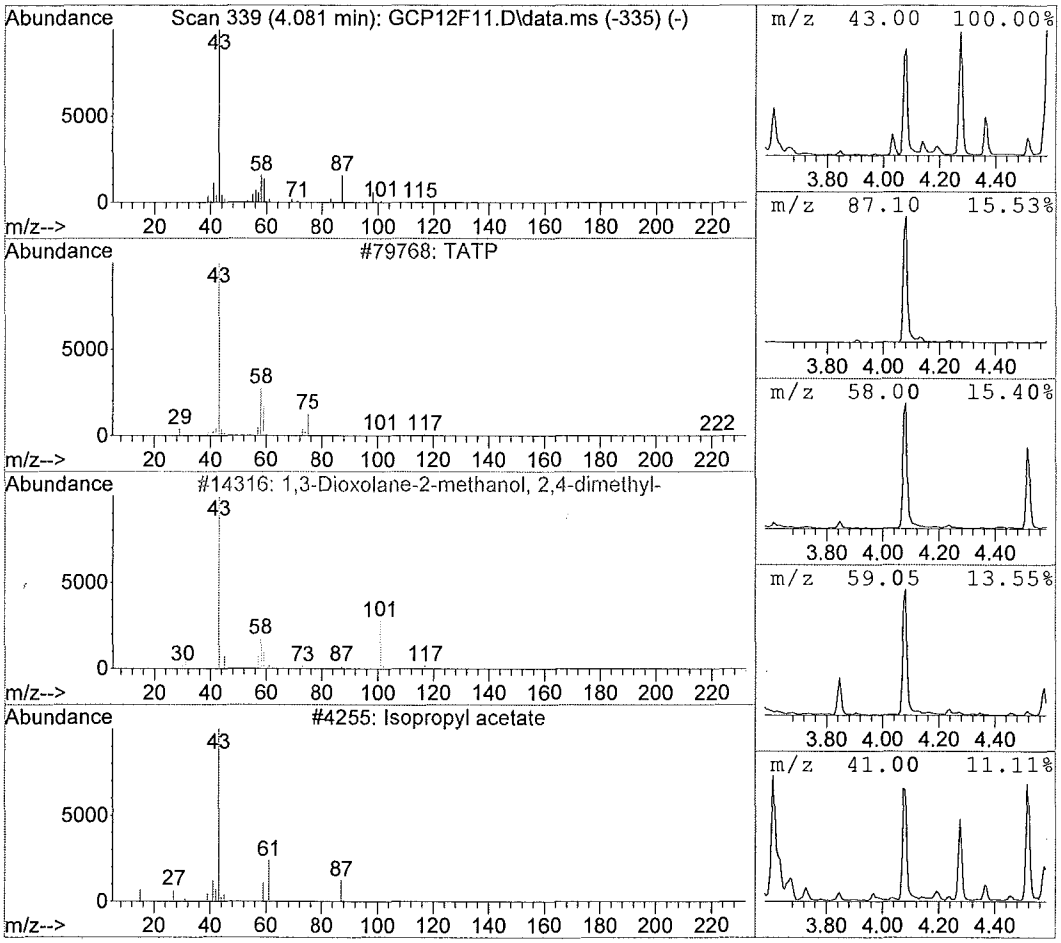
00294

Data File : R:\G\2015\JUL15\10JUL15\GCP12F11.D Vial: 9
Acq On : 07/10/2015 15:35 Operator: TJM
Sample : 1515542011 F9M29 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
4.08	13.40 ug/ml	1599772	1,4-Dichlorobenzene-d4	2387750

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	TATP	79768	017088-37-8	40.00
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	1-Butanamine, 2-methyl-	1912	000096-15-1	9.00



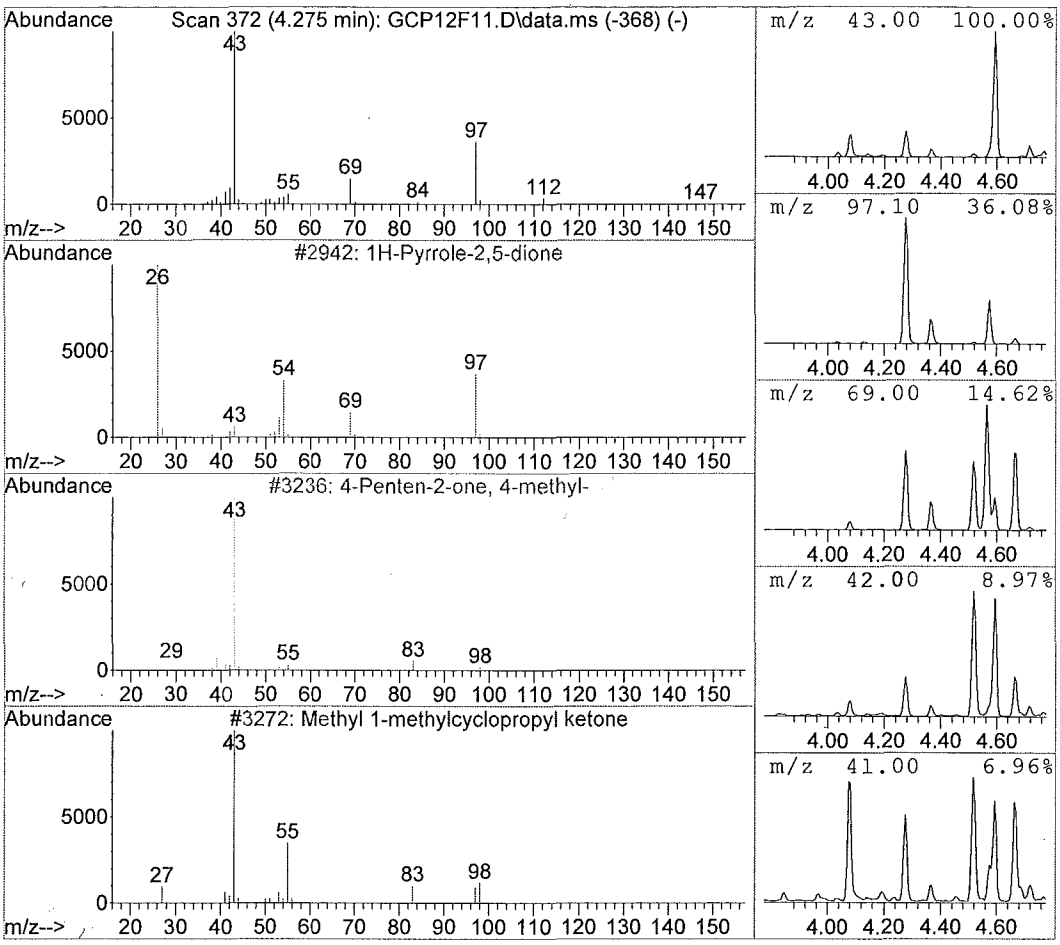
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP12F11.D Vial: 9
Acq On : 07/10/2015 15:35 Operator: TJM
Sample : 1515542011 F9M29 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	14.25 ug/ml	1701197	1,4-Dichlorobenzene-d4	2387750

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	32.00
2	4-Penten-2-one, 4-methyl-	3236	003744-02-3	9.00
3	Methyl 1-methylcyclopropyl ketone	3272	001567-75-5	9.00
4	5-Hexen-2-one	3158	000109-49-9	9.00
5	2-Propyn-1-ol, acetate	3098	000627-09-8	5.00



Library Search Compound Report

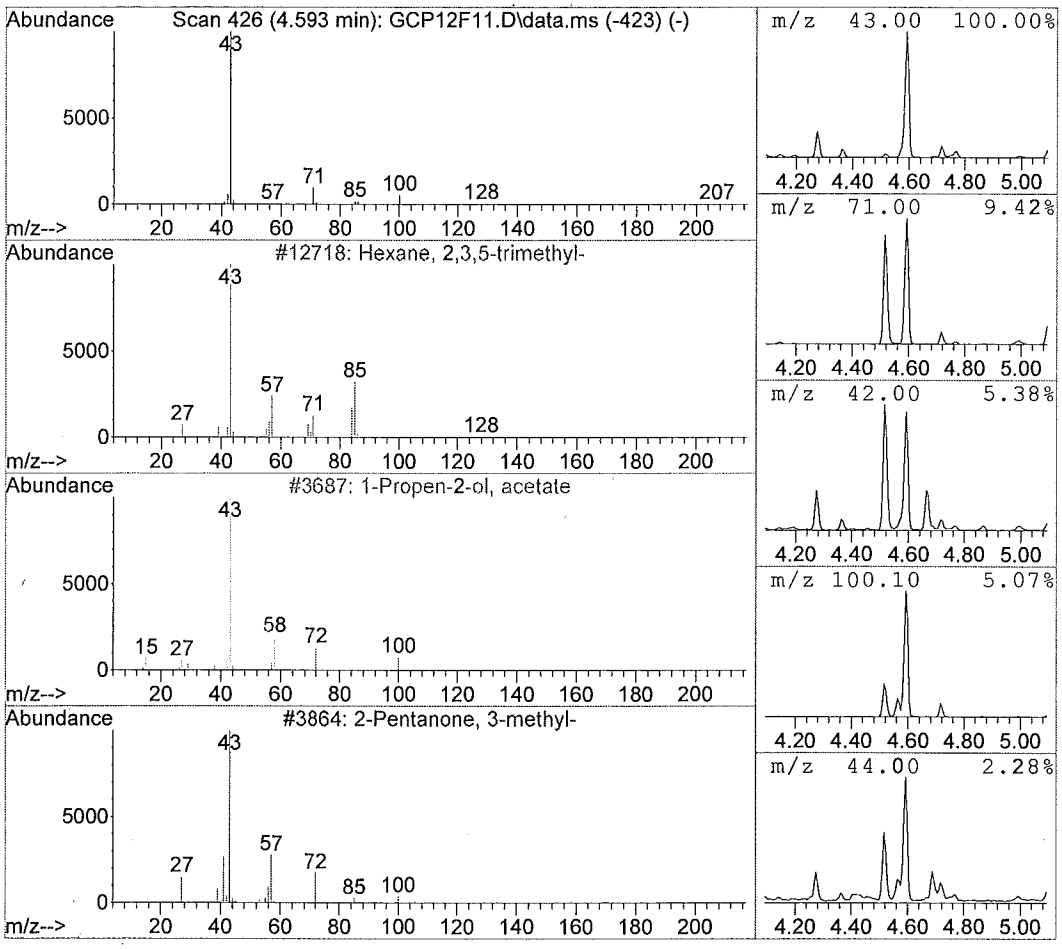
Data File : R:\G\2015\JUL15\10JUL15\GCP12F11.D Vial: 9
Acq On : 07/10/2015 15:35 Operator: TJM
Sample : 1515542011 F9M29 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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	46.22 ug/ml	5518112	1,4-Dichlorobenzene-d4	2387750

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	7.00
2	1-Propen-2-ol, acetate	3687	000108-22-5	5.00
3	2-Pentanone, 3-methyl-	3864	000565-61-7	5.00
4	Hexane, 2,3,4-trimethyl-	12706	000921-47-1	5.00
5	Heptane	3971	000142-82-5	5.00

BA



00287

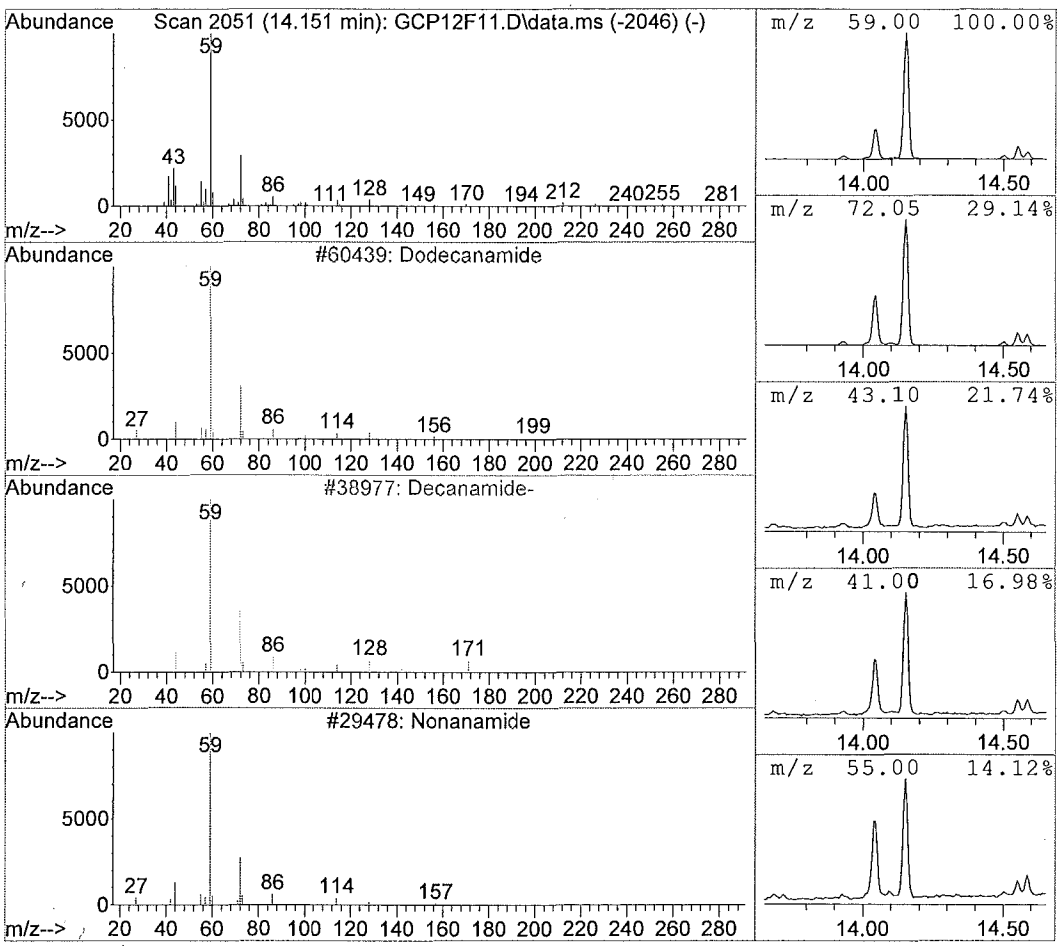
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP12F11.D Vial: 9
Acq On : 07/10/2015 15:35 Operator: TJM
Sample : 1515542011 F9M29 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	10.46 ug/ml	1717023	Chrysene-d12	3282040

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	Nonanamide	29478	001120-07-6	83.00
4	Pentanamide	4064	000626-97-1	78.00
5	Undecanamide, 11-bromo-	112862	005875-26-3	78.00



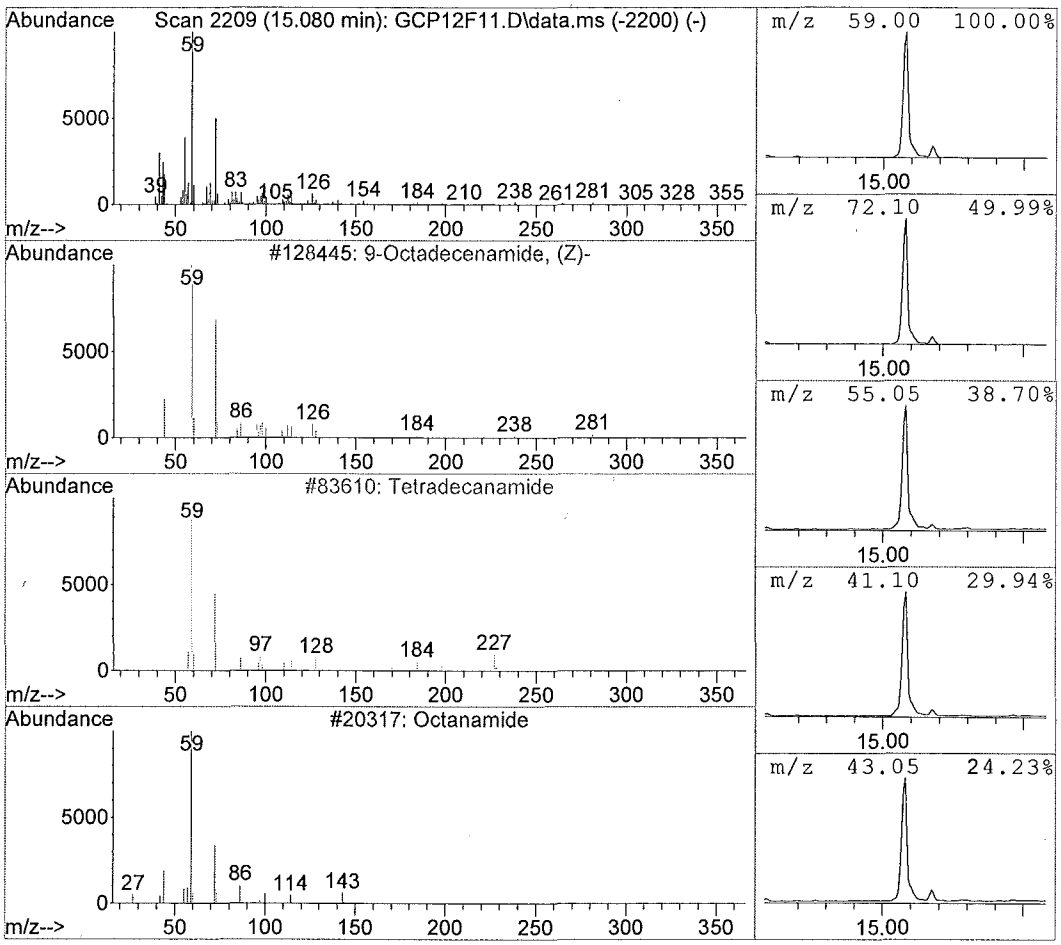
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP12F11.D Vial: 9
Acq On : 07/10/2015 15:35 Operator: TJM
Sample : 1515542011 F9M29 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
15.08	75.31 ug/ml	12358989	Chrysene-d12	3282040

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	98.00
2	Tetradecanamide	83610	000638-58-4	87.00
3	Octanamide	20317	000629-01-6	56.00
4	Hexadecanamide	106565	000629-54-9	56.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	56.00

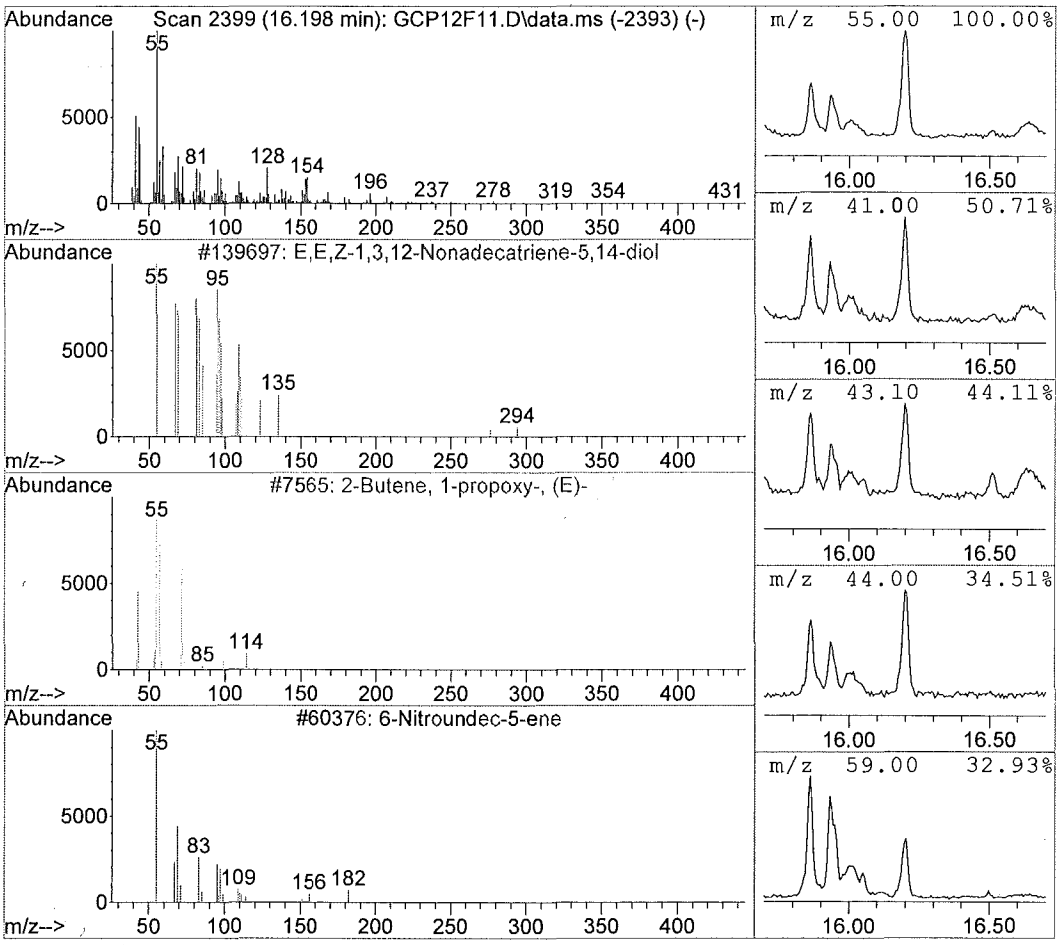


Data File : R:\G\2015\JUL15\10JUL15\GCP12F11.D Vial: 9
Acq On : 07/10/2015 15:35 Operator: TJM
Sample : 1515542011 F9M29 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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	5.87 ug/ml	963867	Chrysene-d12	3282040

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	E,E,Z-1,3,12-Nonadecatriene-5,14-di	139697	1000131-11-4	18.00
2	2-Butene, 1-propoxy-, (E)-	7565	056052-71-2	11.00
3	6-Nitroundec-5-ene	60376	1000192-40-3	11.00
4	2-Butene, 1-propoxy-	7486	018409-01-3	10.00
5	5-Octen-2-ol, 5-methyl-	19991	118989-20-1	10.00

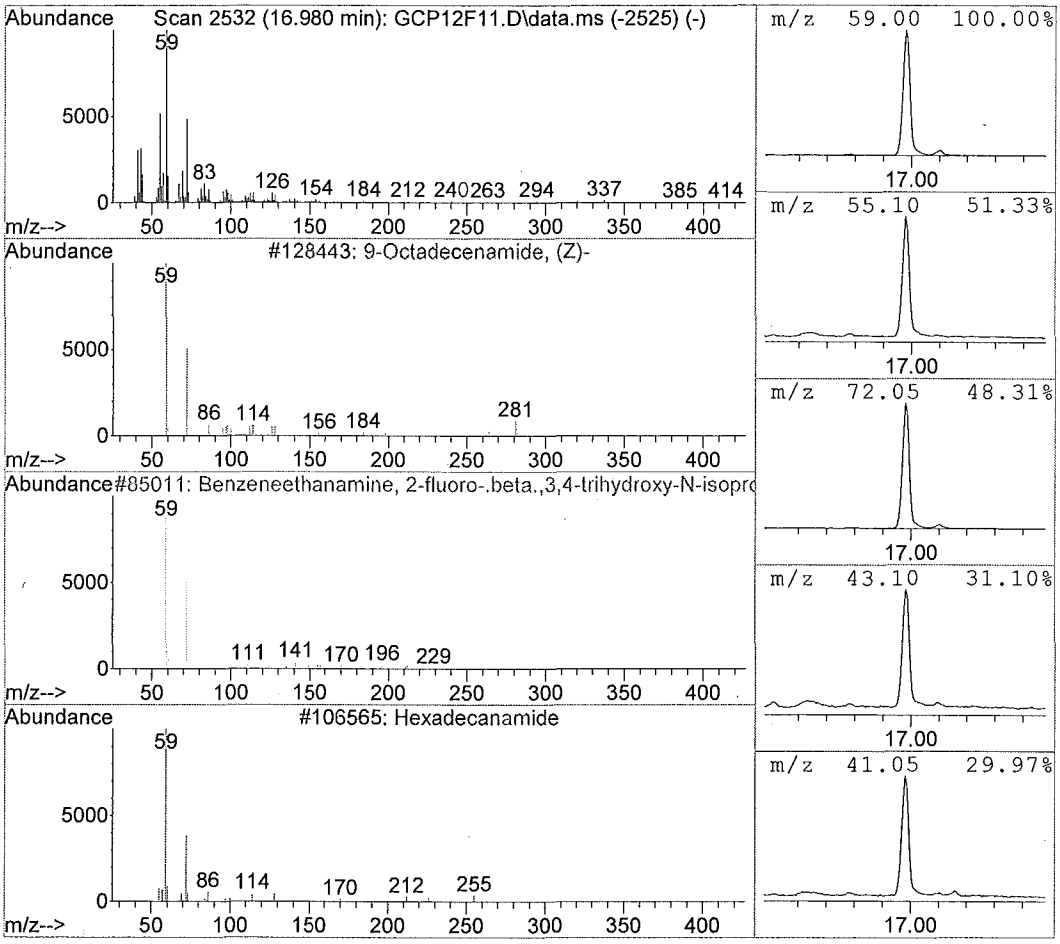


Data File : R:\G\2015\JUL15\10JUL15\GCP12F11.D Vial: 9
Acq On : 07/10/2015 15:35 Operator: TJM
Sample : 1515542011 F9M29 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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	37.97 ug/ml	5100669	Perylene-d12	2686699

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	96.00
2	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	72.00
3	Hexadecanamide	106565	000629-54-9	64.00
4	Decanamide-	38977	002319-29-1	56.00
5	Dodecanamide	60440	001120-16-7	53.00

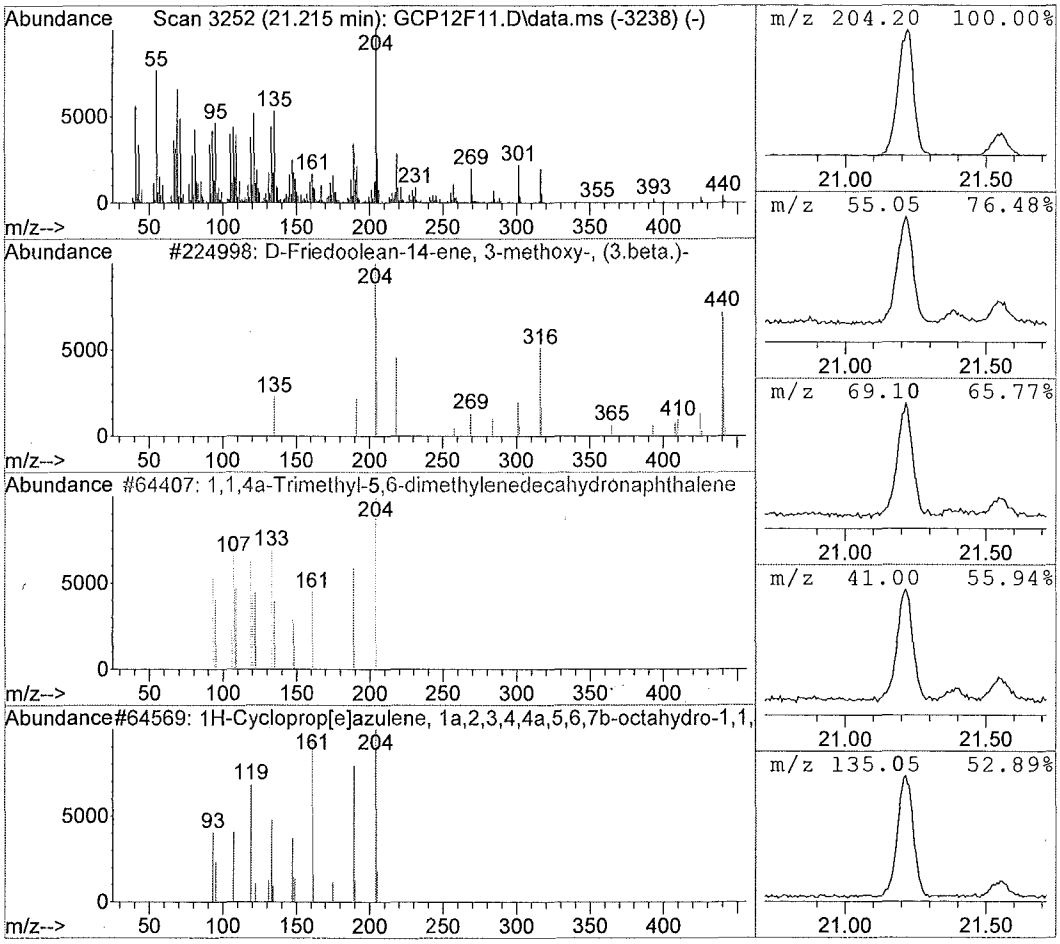


Data File : R:\G\2015\JUL15\10JUL15\GCP12F11.D Vial: 9
Acq On : 07/10/2015 15:35 Operator: TJM
Sample : 1515542011 F9M29 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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
21.22	34.62 ug/ml	4650392	Perylene-d12	2686699

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	D-Friedoolean-14-ene, 3-methoxy-, (	224998	014021-23-9	83.00
2	1,1,4a-Trimethyl-5,6-dimethylenedec	64407	1000193-60-8	59.00
3	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	64569	000489-40-7	50.00
4	1H-3a,7-Methanoazulene, 2,3,6,7,8,8	64540	000560-32-7	38.00
5	Farnesyl bromide	130771	006874-67-5	38.00



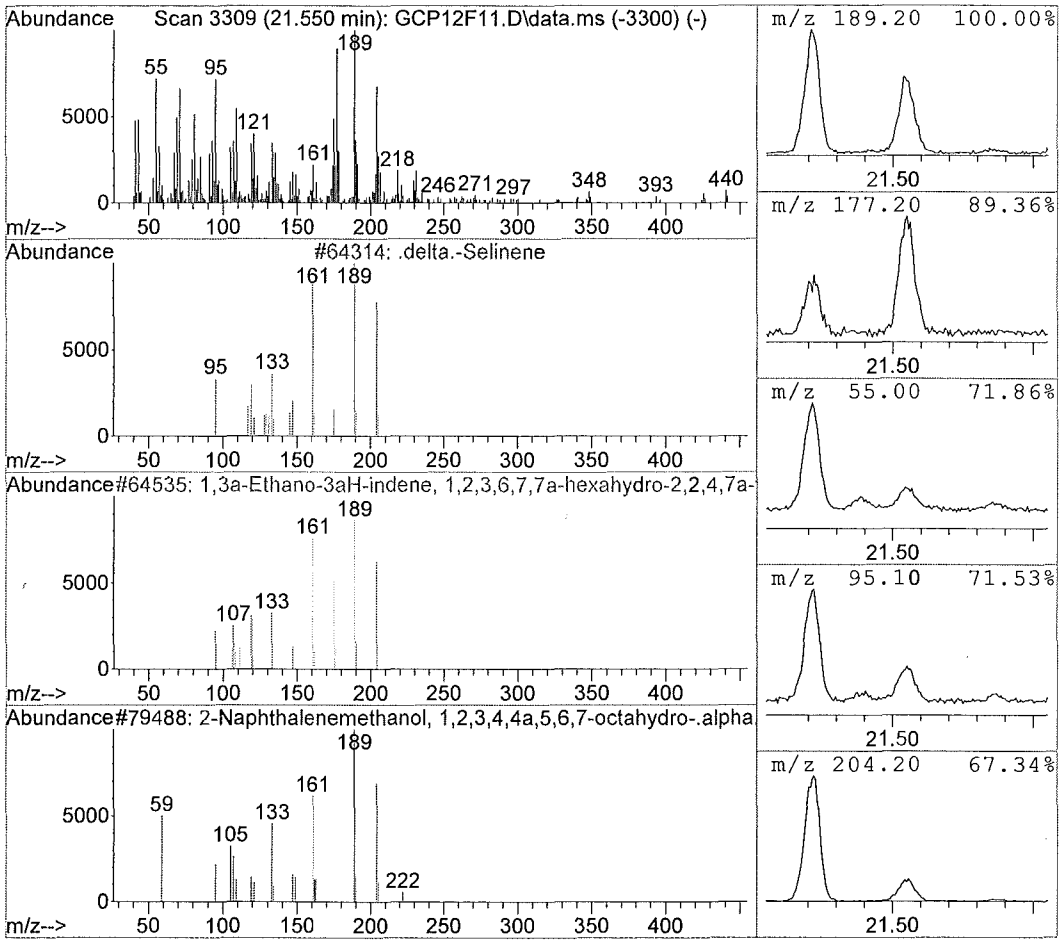
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP12F11.D Vial: 9
Acq On : 07/10/2015 15:35 Operator: TJM
Sample : 1515542011 F9M29 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
21.55	7.64 ug/ml	1026683	Perylene-d12	2686699

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	.delta.-Selinene	64314	028624-23-9	46.00
2	1,3a-Ethano-3aH-indene, 1,2,3,6,7,7	64535	004545-68-0	43.00
3	2-Naphthalenemethanol, 1,2,3,4,4a,5	79488	001209-71-8	42.00
4	Cedrene-V6	64261	1000162-76-8	38.00
5	1H-Cyclopropa[a]naphthalene, 1a,2,3	64566	000489-29-2	38.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M30

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GCP13F12

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

% Moisture: 15. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

GPC Cleanup: (Y/N) Y pH: 8.2 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	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.

F9M30

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GCP13F12

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

% Moisture: 15. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

GPC Cleanup: (Y/N) Y pH: 8.2 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.

F9M30

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GCP13F12

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

% Moisture: 15. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

GPC Cleanup: (Y/N) Y pH: 8.2 Dilution Factor: 1.0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 1,3-Dioxolane, 2,2-dimethyl-	2.32	840	J
02	625-86-5	Furan, 2,5-dimethyl-	2.42	1700	JNB
03		Unknown 2-Pentanone, 4-hydroxy-	3.31	1200	JB
04		Unknown Guanidine	3.53	25000	J
05		Unknown TATP	4.08	550	J
06		Unknown 1H-Pyrrole-2,5-dione	4.28	590	J
07		Unknown 4H-Imidazol-4-one, 2-amino-1,5-dihydro-	4.52	980	J
08		Unknown Propanoic acid, 2-methyl-, 1-(1,1-dimeth	9.65	520	J
09		Unknown 1-Undecene, 8-methyl-	11.05	210	J
10		Unknown Pentadecanoic acid	11.58	240	J
11	57-10-3	n-Hexadecanoic acid	12.67	560	JN
12	1000245-48-4	E-10-Pentadecenol	13.56	230	JN
13	693-71-0	trans-13-Octadecenoic acid	13.94	740	JN
14	1120-16-7	Dodecanamide	14.17	470	JN
15		Unknown 5-Octadecyne	14.93	360	J
16	301-02-0	9-Octadecenamide, (Z)-	15.09	2900	JNB
17		Unknown 1,3-Dioxolane-4-methanol, 2-ethyl-	16.01	220	J
18		Unknown Cyclohexanecarboxamide	16.21	310	J
19	301-02-0	9-Octadecenamide, (Z)-	16.99	1600	JN
20	1000210-38-4	17-(1,5-Dimethylhexyl)-10,13-dimethyl-2,3,4,7,8,	19.93	1800	JN
21		Unknown 1,1,4a-Trimethyl-5,6-dimethylenedecahydr	21.23	1400	J
22		Unknown Naphthalene, decahydro-4a-methyl-1-methy	21.56	420	J
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	1300	J

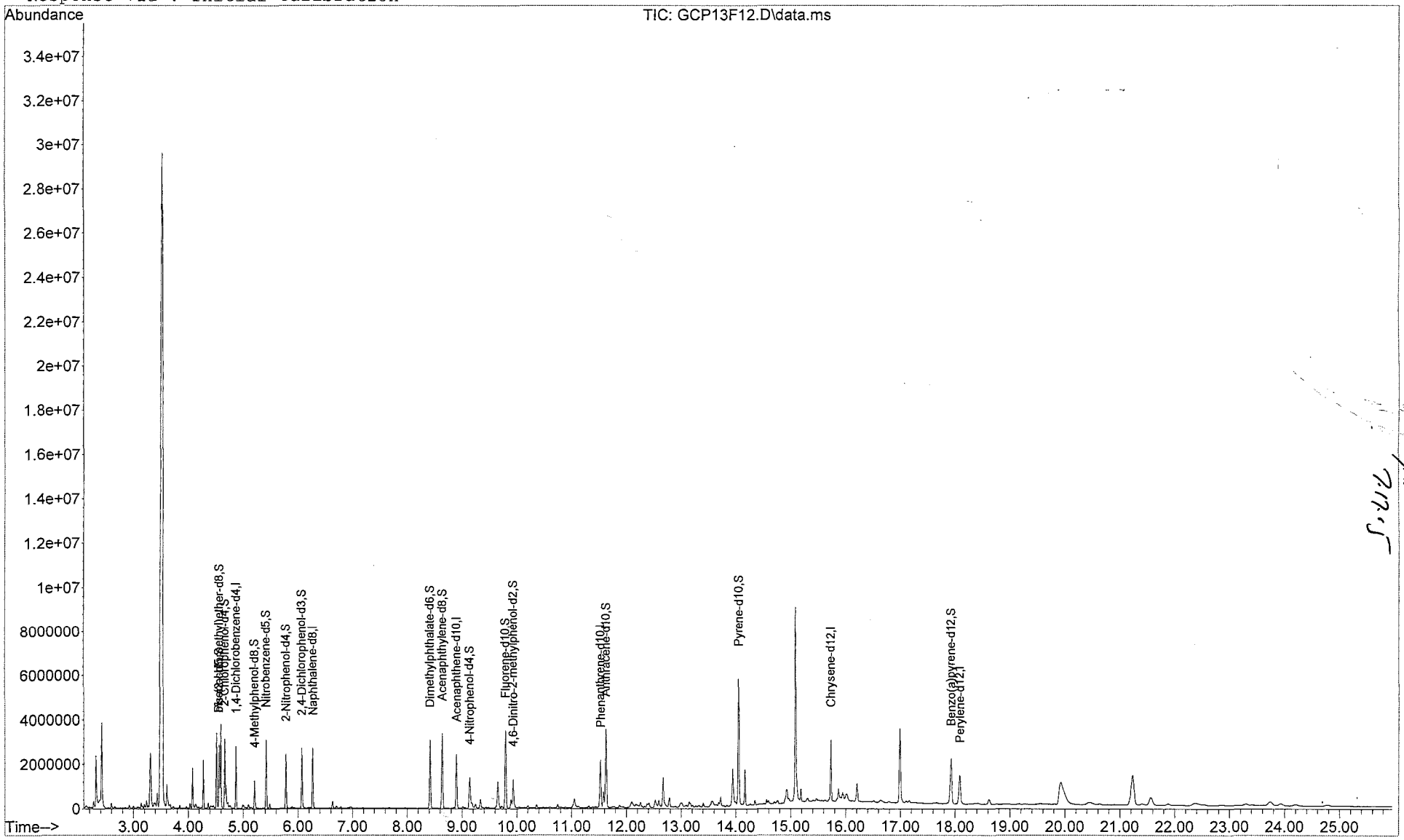
[2] EPA-designated Registry Number.

Quantitation Report

Data File : R:\G\2015\JUL15\10JUL15\GCP13F12.D Vial: 10
Acq On : 07/10/2015 17:02 Operator: TJM
Sample : 1515542012 F9M30 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jul 17 08:47:38 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\10JUL15\GCP13F12.D Vial: 10
Acq On : 07/10/2015 17:02 Operator: TJM
Sample : 1515542012 F9M30 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 17 08:47:38 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	351363	20.00 ug/ml
16) Naphthalene-d8	6.27	136	1308660	20.00 ug/ml
33) Acenaphthene-d10	8.90	164	744954	20.00 ug/ml
59) Phenanthrene-d10	11.53	188	1221186	20.00 ug/ml
73) Chrysene-d12	15.73	240	1136326	20.00 ug/ml
81) Perylene-d12	18.09	264	912937	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.56	99	833194	27.250ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	676311	28.383ug/mL
7) 2-Chlorophenol-d4	4.67	132	762842	29.549ug/ml
13) 4-Methylphenol-d8	5.20	113	262613	12.841ug/mL
17) Nitrobenzene-d5	5.42	128	358646	31.197ug/ml
21) 2-Nitrophenol-d4	5.78	143	393244	32.362ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	544947	28.801ug/mL
28) 4-Chloroaniline-d4	6.33	131	8155	0.395ug/mL
42) Dimethylphthalate-d6	8.42	166	1634173	34.983ug/mL
45) Acenaphthylene-d8	8.64	160	2054209	32.359ug/mL
50) 4-Nitrophenol-d4	9.14	143	310087	32.539ug/mL
57) Fluorene-d10	9.79	176	1369029	34.317ug/mL
61) 4,6-Dinitro-2-methylphenol	9.93	200	207508	23.940ug/mL
69) Anthracene-d10	11.63	188	2147138	33.155ug/mL
75) Pyrene-d10	14.05	212	2007630	35.403ug/mL
86) Benzo(a)pyrene-d12	17.93	264	1442687	32.979ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	0.00	77		Not Detected
4) Phenol	0.00	94		Not Detected
5) Bis(2-chloroethyl)ether	0.00	93		Not Detected
8) 2-Chlorophenol	0.00	128		Not Detected
9) 2-Methylphenol	0.00	108		Not Detected
10) 2,2'-Oxybis-(1-chloropropa	0.00	45		Not Detected
11) Acetophenone	0.00	105		Not Detected
12) 4-methylphenol	0.00	108		Not Detected
14) N-Nitroso-di-n-propylamine	0.00	70		Not Detected
15) Hexachloroethane	0.00	117		Not Detected
18) Nitrobenzene	0.00	77		Not Detected
19) Isophorone	0.00	82		Not Detected
20) 2-Nitrophenol	0.00	139		Not Detected
22) 2,4-Dimethylphenol	0.00	107		Not Detected
23) Bis(2-chloroethoxy)methane	0.00	93		Not Detected
24) 2,4-Dichlorophenol	0.00	162		Not Detected
26) Naphthalene	0.00	128		Not Detected
27) 4-Chloroaniline	0.00	127		Not Detected
29) Hexachlorobutadiene	0.00	225		Not Detected
30) Caprolactam	0.00	113		Not Detected
31) 4-Chloro-3-methylphenol	0.00	107		Not Detected
32) 2-Methylnaphthalene	0.00	142		Not Detected
34) 1,2,4,5-Tetrachlorobenzene	0.00	216		Not Detected
35) Hexachlorocyclopentadiene	0.00	237		Not Detected
36) 2,4,6-Trichlorophenol	0.00	196		Not Detected
37) 2,4,5-Trichlorophenol	0.00	196		Not Detected
38) 1,1'-Biphenyl	0.00	154		Not Detected
39) 2-Chloronaphthalene	0.00	162		Not Detected
40) 2-Nitroaniline	0.00	65		Not Detected
41) Dimethylphthalate	0.00	163		Not Detected
43) 2,6-Dinitrotoluene	0.00	165		Not Detected

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

00299

Quantitation Report

Data File : R:\G\2015\JUL15\10JUL15\GCP13F12.D Vial: 10
Acq On : 07/10/2015 17:02 Operator: TJM
Sample : 1515542012 F9M30 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 17 08:47:38 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)

00299

Library Search Compound Report

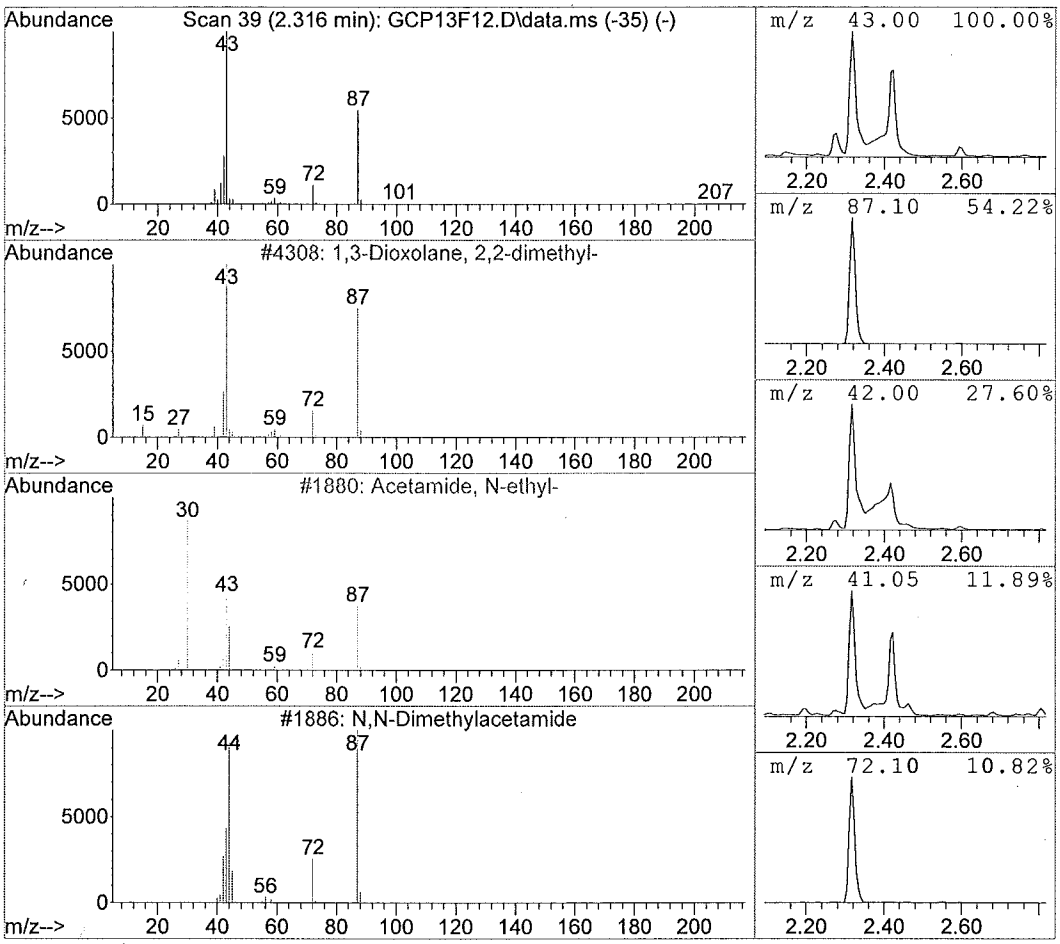
Data File : R:\G\2015\JUL15\10JUL15\GCP13F12.D
Acq On : 07/10/2015 17:02
Sample : 1515542012 F9M30
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 10
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
2.32	21.69 ug/ml	2761268	1,4-Dichlorobenzene-d4	2546368

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,3-Dioxolane, 2,2-dimethyl-	4308	002916-31-6	59.00
2	Acetamide, N-ethyl-	1880	000625-50-3	42.00
3	N,N-Dimethylacetamide	1886	000127-19-5	33.00
4	2-Propanone, O-methyloxime	1895	003376-35-0	25.00
5	Oxazolidin-2-one	1845	000497-25-6	9.00



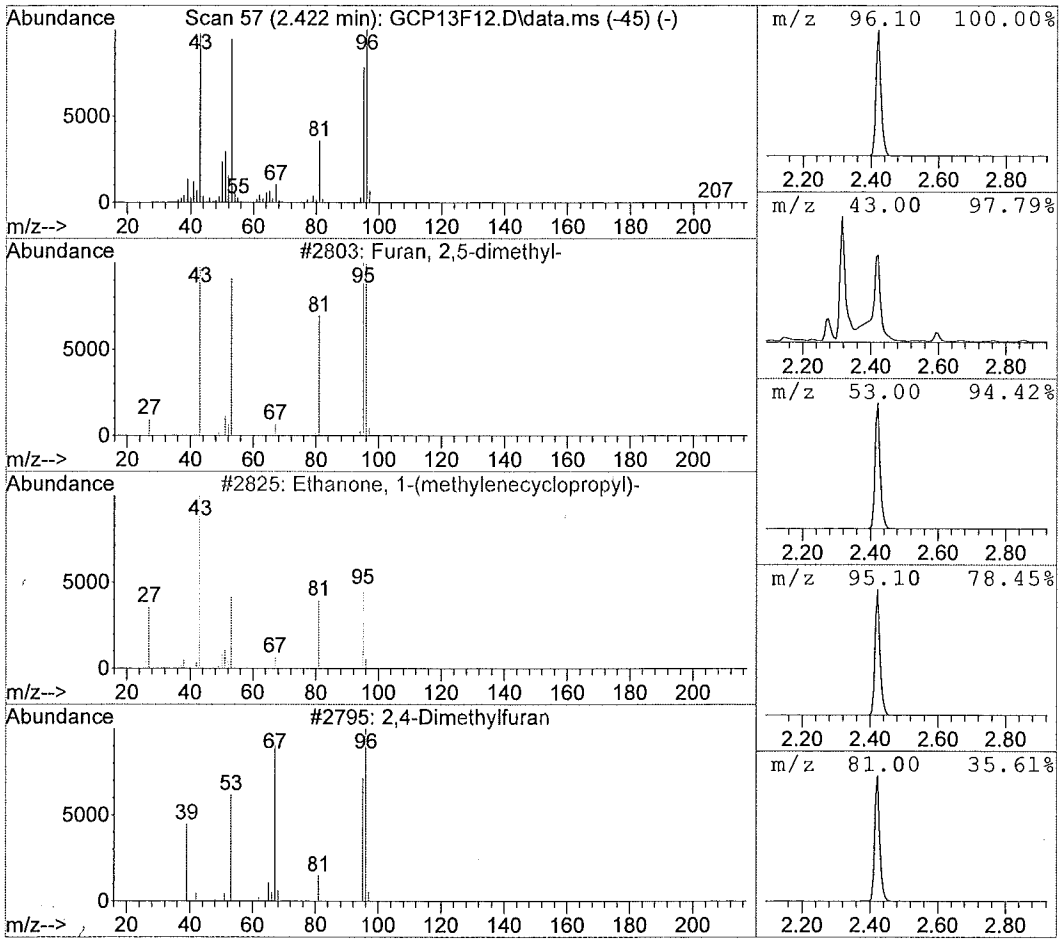
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP13F12.D Vial: 10
Acq On : 07/10/2015 17:02 Operator: TJM
Sample : 1515542012 F9M30 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
2.42	42.74 ug/ml	5441549	1,4-Dichlorobenzene-d4	2546368

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Furan, 2,5-dimethyl-	2803	000625-86-5	90.00
2	Ethanone, 1-(methylenecyclopropyl)-	2825	062266-35-7	64.00
3	2,4-Dimethylfuran	2795	003710-43-8	47.00
4	1H-Pyrazole, 1,5-dimethyl-	2762	000694-31-5	40.00
5	Butanedinitrile	1063	000110-61-2	38.00



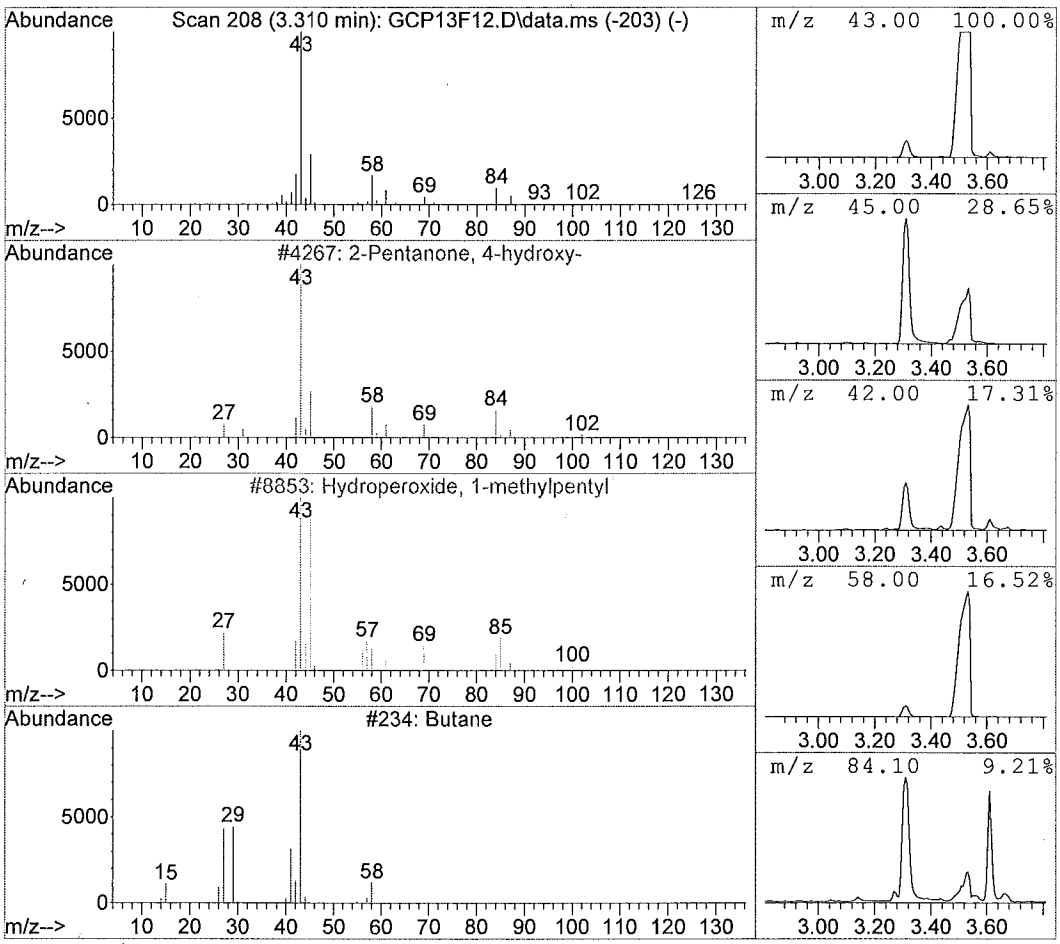
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP13F12.D Vial: 10
Acq On : 07/10/2015 17:02 Operator: TJM
Sample : 1515542012 F9M30 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
3.31	30.25 ug/ml	3851738	1,4-Dichlorobenzene-d4	2546368

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	36.00
2	Hydroperoxide, 1-methylpentyl	8853	024254-55-5	33.00
3	Butane	234	000106-97-8	9.00
4	Acetone	214	000067-64-1	9.00
5	Nitric acid, nonyl ester	52650	020633-13-0	9.00



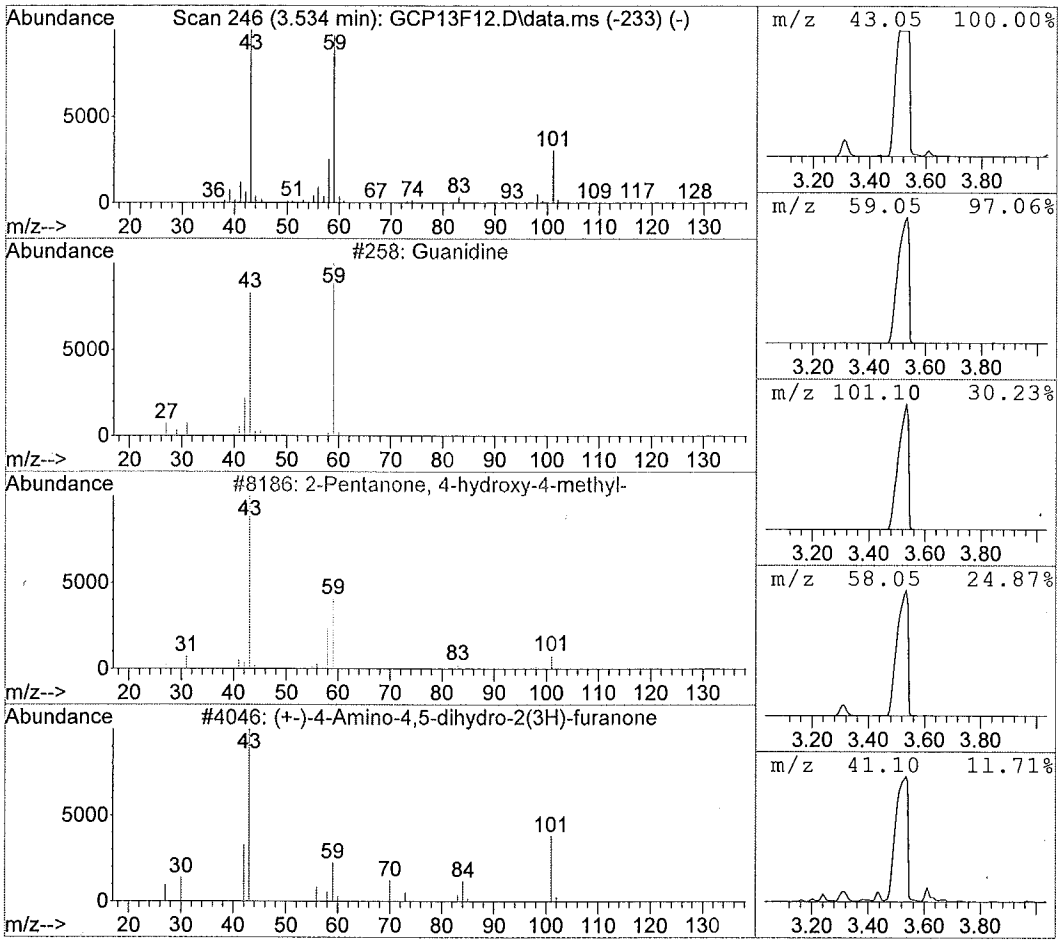
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP13F12.D Vial: 10
Acq On : 07/10/2015 17:02 Operator: TJM
Sample : 1515542012 F9M30 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
3.53	634.81 ug/ml	80822599	1,4-Dichlorobenzene-d4	2546368

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Guanidine	258	000113-00-8	52.00
2	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	50.00
3	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	27.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
5	Acetone	213	000067-64-1	9.00



Library Search Compound Report

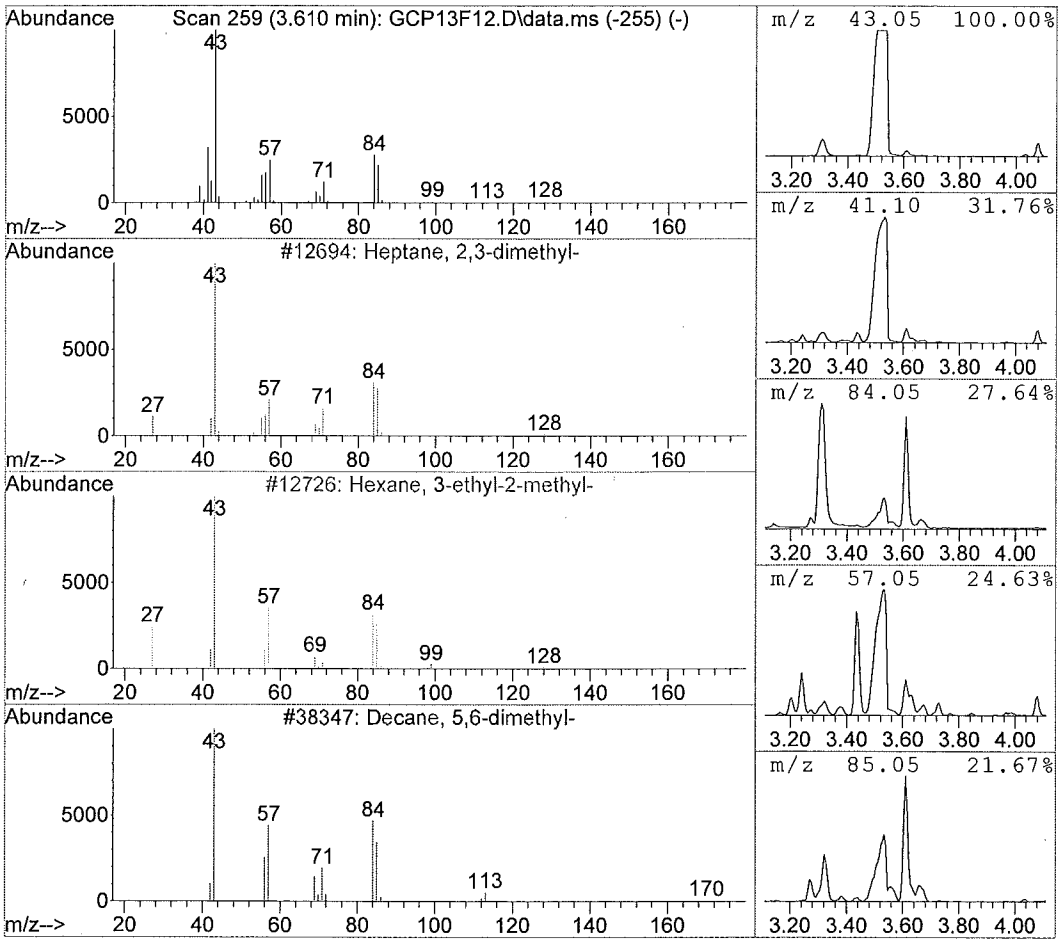
Data File : R:\G\2015\JUL15\10JUL15\GCP13F12.D Vial: 10
Acq On : 07/10/2015 17:02 Operator: TJM
Sample : 1515542012 F9M30 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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
3.61	10.11 ug/ml	1287416	1,4-Dichlorobenzene-d4	2546368

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12694	003074-71-3	91.00
2	Hexane, 3-ethyl-2-methyl-	12726	016789-46-1	87.00
3	Decane, 5,6-dimethyl-	38347	001636-43-7	83.00
4	Hexane, 3-ethyl-	7622	000619-99-8	74.00
5	1-Octene, 4-methyl-	11522	013151-12-7	64.00

BA



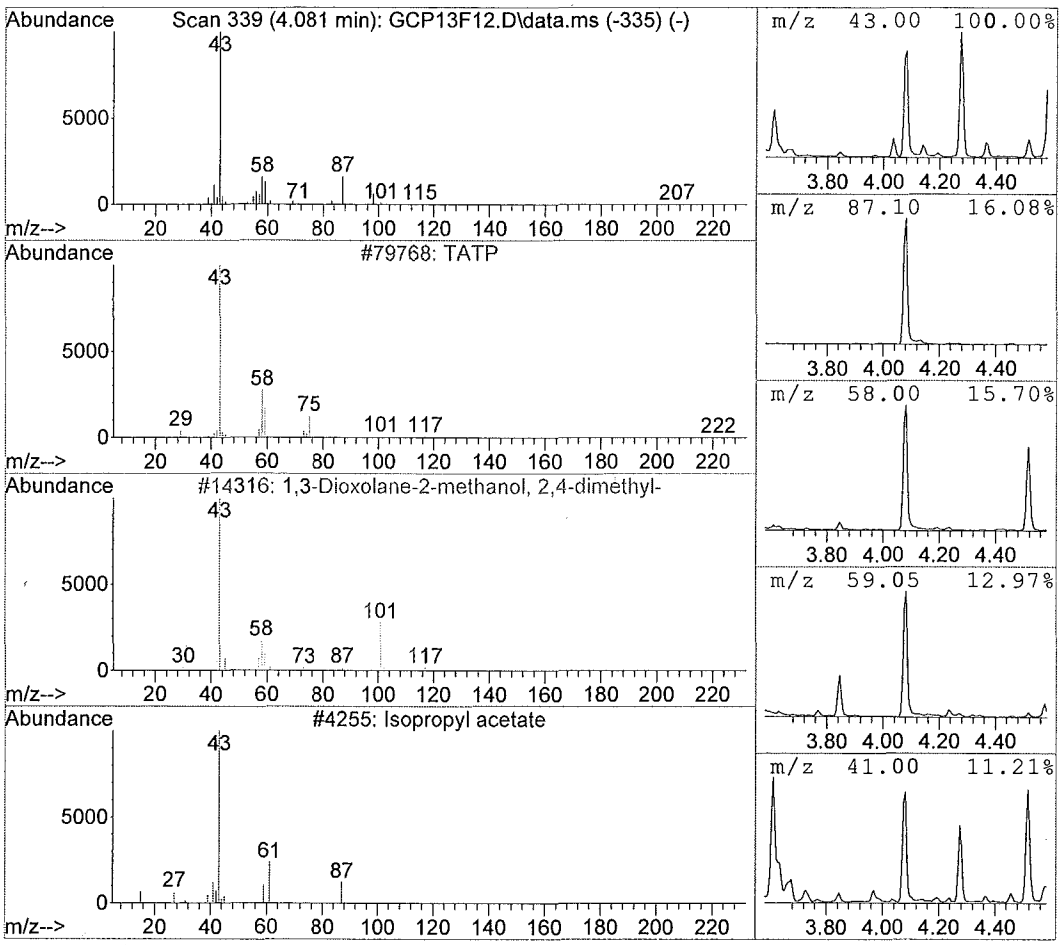
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP13F12.D Vial: 10
Acq On : 07/10/2015 17:02 Operator: TJM
Sample : 1515542012 F9M30 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
4.08	14.18 ug/ml	1805351	1,4-Dichlorobenzene-d4	2546368

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	TATP	79768	017088-37-8	50.00
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	Acetaldehyde, O-ethyloxime-	1897	1000288-34-6	9.00
5	S-(-)-2-Methylbutylamine	1929	020626-52-2	9.00



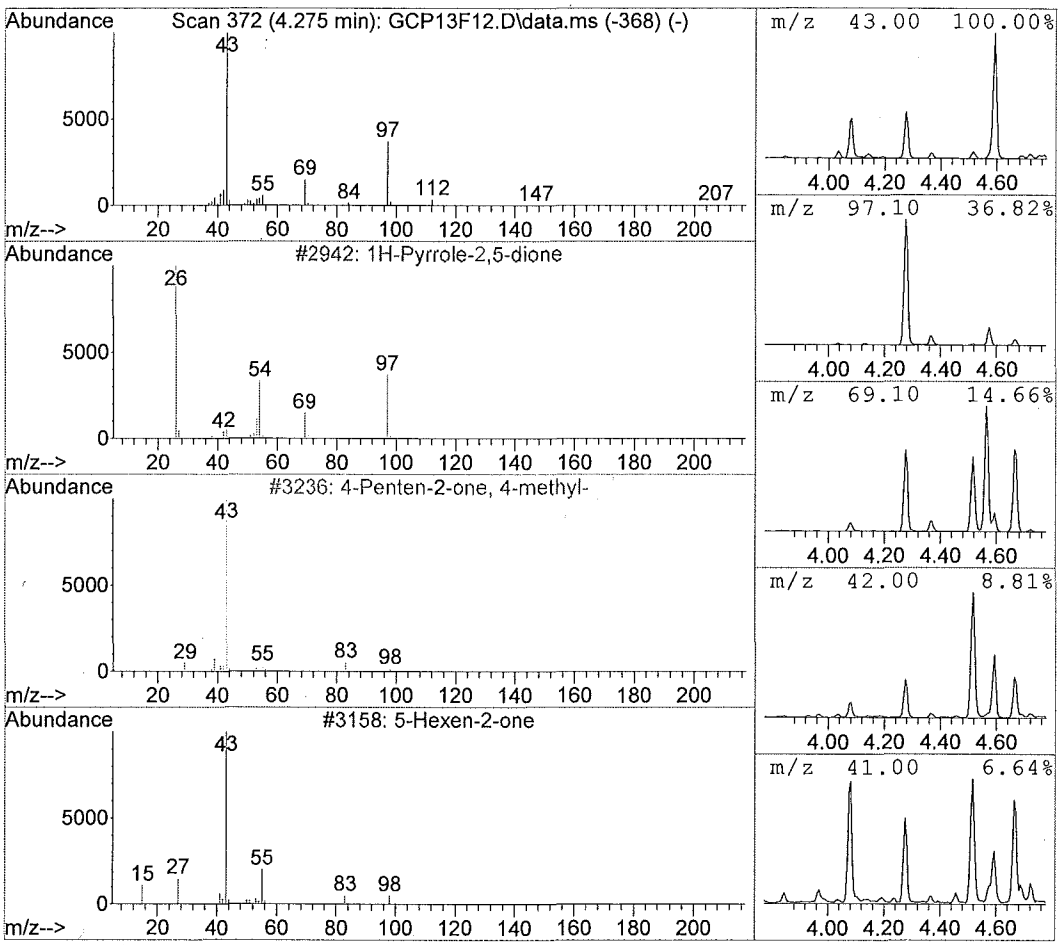
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP13F12.D Vial: 10
Acq On : 07/10/2015 17:02 Operator: TJM
Sample : 1515542012 F9M30 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	15.25 ug/ml	1941223	1,4-Dichlorobenzene-d4	2546368

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	2-Propyn-1-ol, acetate	3098	000627-09-8	5.00
5	5-Hexen-2-one, 5-methyl-	6529	003240-09-3	5.00



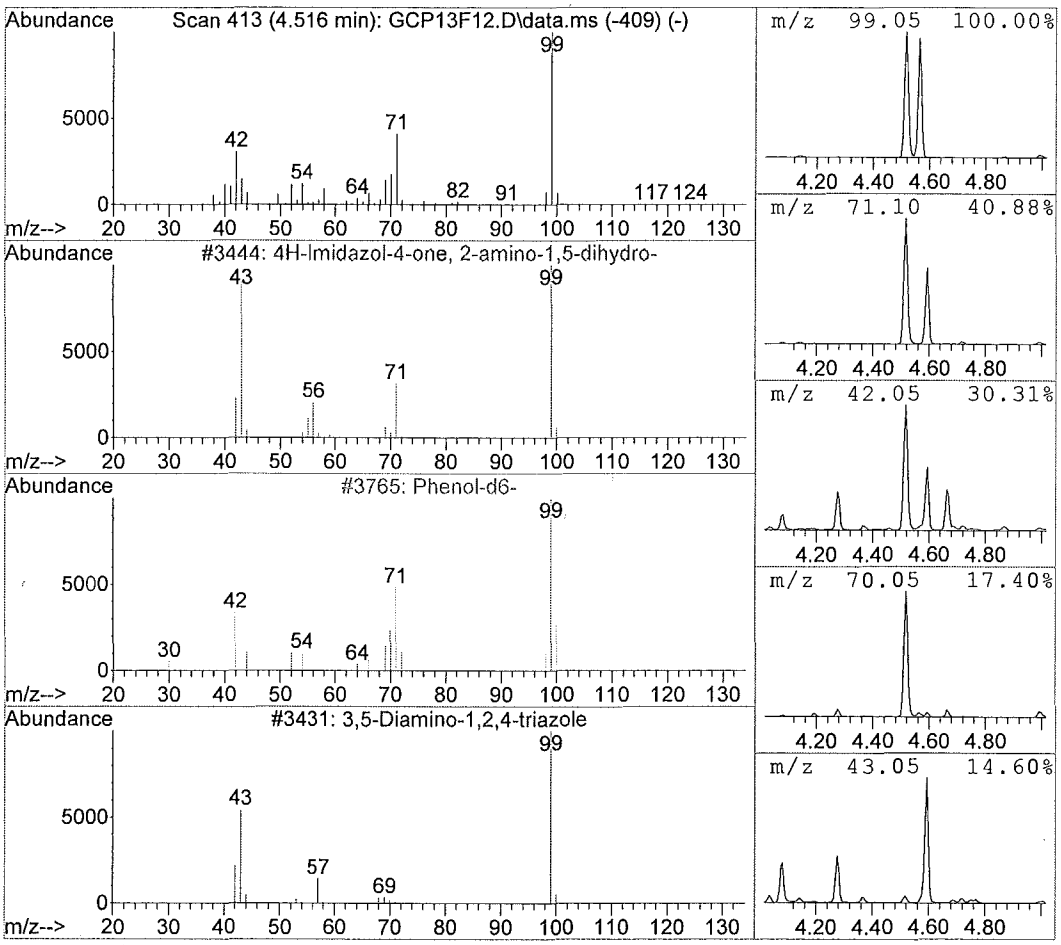
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP13F12.D Vial: 10
Acq On : 07/10/2015 17:02 Operator: TJM
Sample : 1515542012 F9M30 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
4.52	25.15 ug/ml	3201845	1,4-Dichlorobenzene-d4	2546368

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4H-Imidazol-4-one, 2-amino-1,5-dihy	3444	000503-86-6	72.00
2	Phenol-d6-	3765	013127-88-3	64.00
3	3,5-Diamino-1,2,4-triazole	3431	001455-77-2	43.00
4	2-Furancarboxylic acid, tetrahydro-	20637	022073-04-7	38.00
5	2-Thioxo-dihydropyrimidine-4,6-dion	189819	1000304-28-6	25.00



Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP13F12.D
Acq On : 07/10/2015 17:02
Sample : 1515542012 F9M30
Misc : . SOIL SOM
MS Integration Params: rteint.p

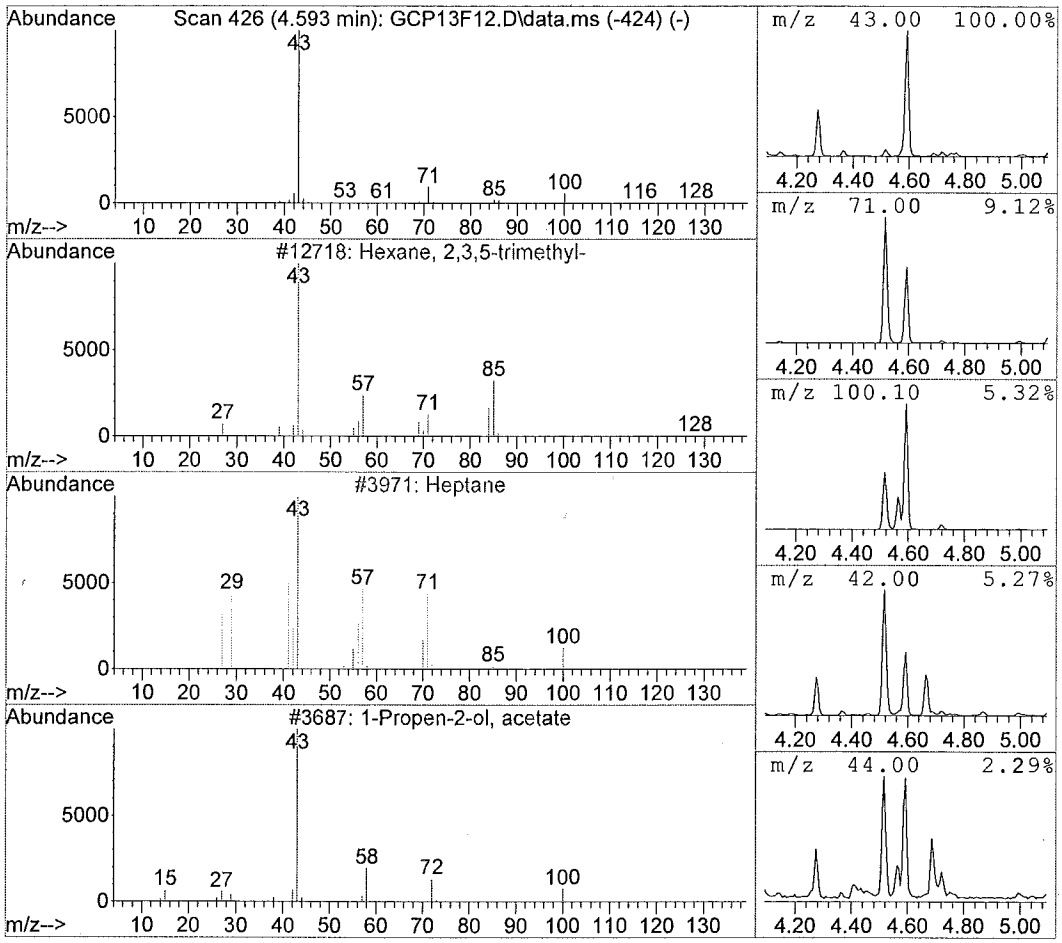
Vial: 10
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

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	23.77 ug/ml	3025987	1,4-Dichlorobenzene-d4	2546368

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	7.00
2	Heptane	3971	000142-82-5	5.00
3	1-Propen-2-ol, acetate	3687	000108-22-5	5.00
4	Pentane, 2-methyl-	1823	000107-83-5	5.00
5	Hexane, 2,3,4-trimethyl-	12706	000921-47-1	5.00

BA



Library Search Compound Report

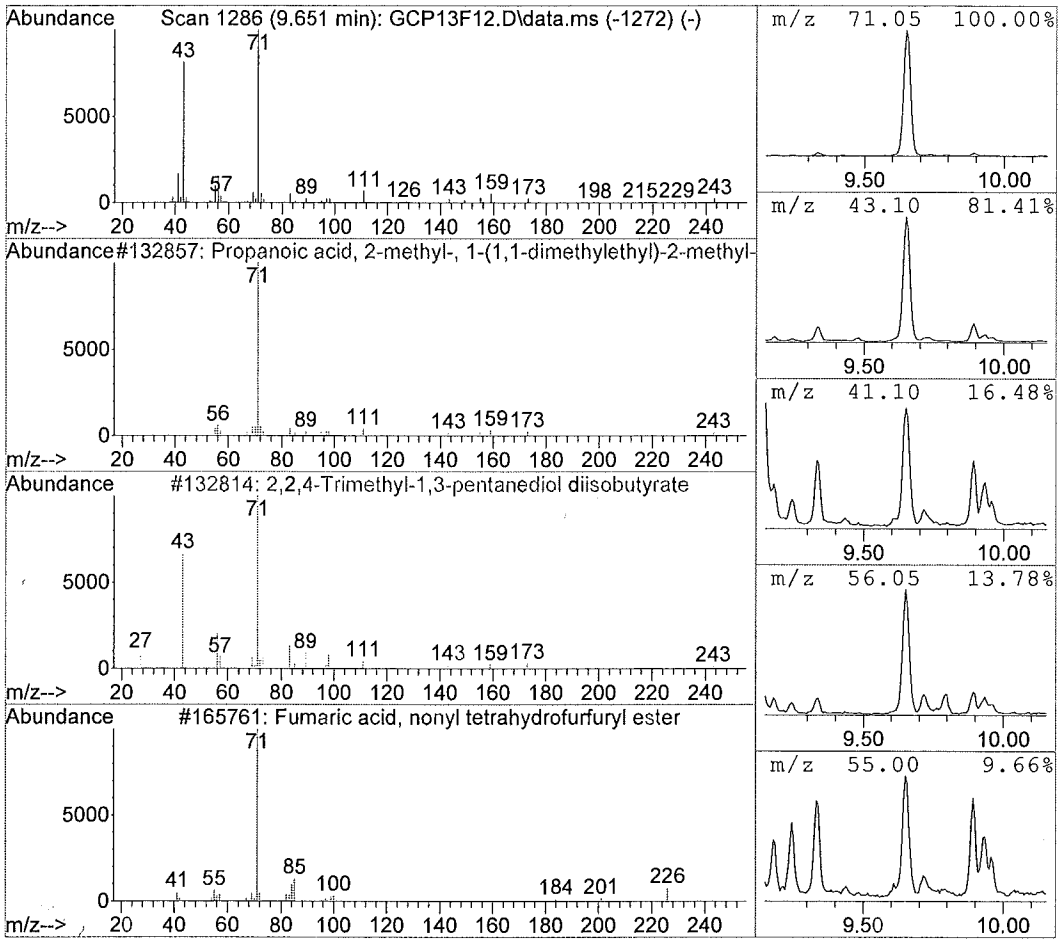
Data File : R:\G\2015\JUL15\10JUL15\GCP13F12.D
Acq On : 07/10/2015 17:02
Sample : 1515542012 F9M30
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 10
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
9.65	13.42 ug/ml	2159965	Acenaphthene-d10	3220148

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propanoic acid, 2-methyl-, 1-(1,1-d	132857	074381-40-1	59.00
2	2,2,4-Trimethyl-1,3-pentanediol dii	132814	006846-50-0	56.00
3	Fumaric acid, nonyl tetrahydrofurfu	165761	1000330-58-3	50.00
4	Pentane, 3-bromo-	24071	001809-10-5	45.00
5	Butanoic acid, 3-butenyl ester	19731	021698-32-8	42.00



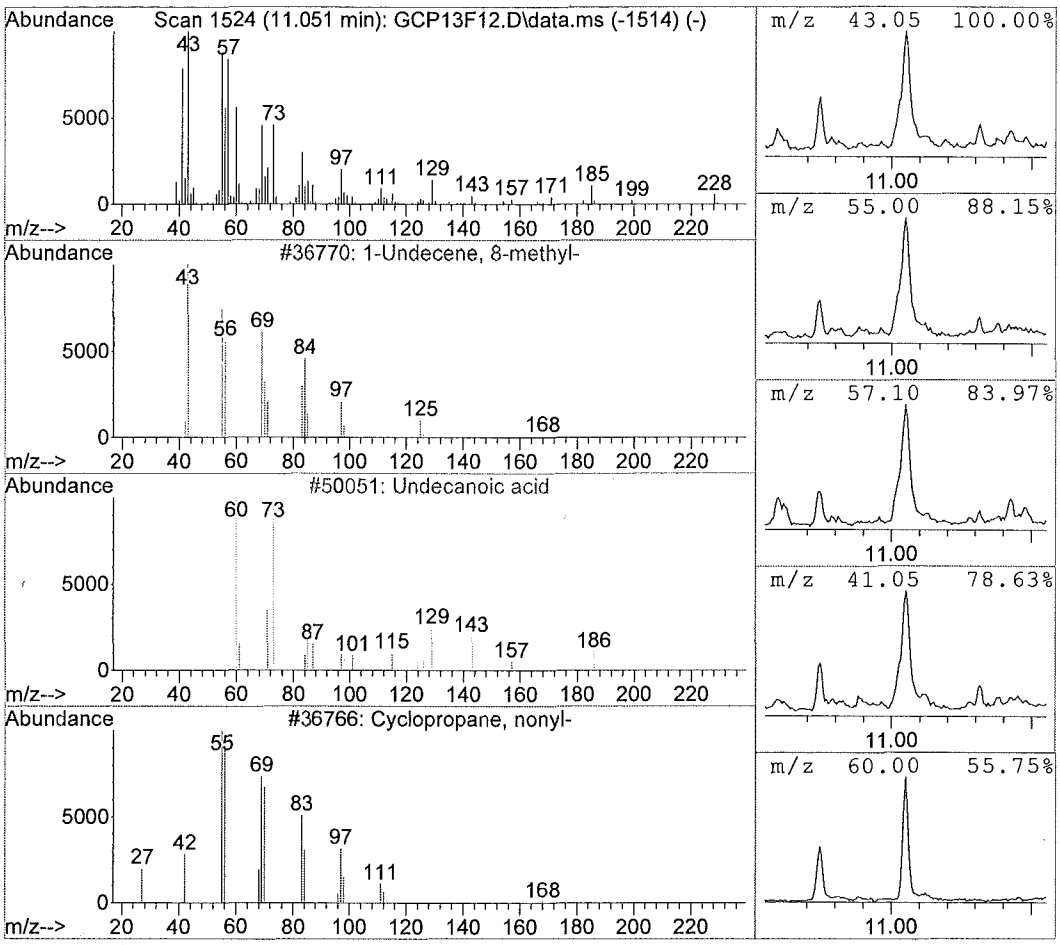
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP13F12.D Vial: 10
Acq On : 07/10/2015 17:02 Operator: TJM
Sample : 1515542012 F9M30 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
11.05	5.37 ug/ml	876577	Phenanthrene-d10	3265172

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Undecene, 8-methyl-	36770	074630-40-3	50.00
2	Undecanoic acid	50051	000112-37-8	45.00
3	Cyclopropane, nonyl-	36766	074663-85-7	41.00
4	Cyclooctane, 1,4-dimethyl-, cis-	18039	013151-99-0	38.00
5	4-Trifluoroacetoxyhexadecane	175130	1000215-97-5	38.00



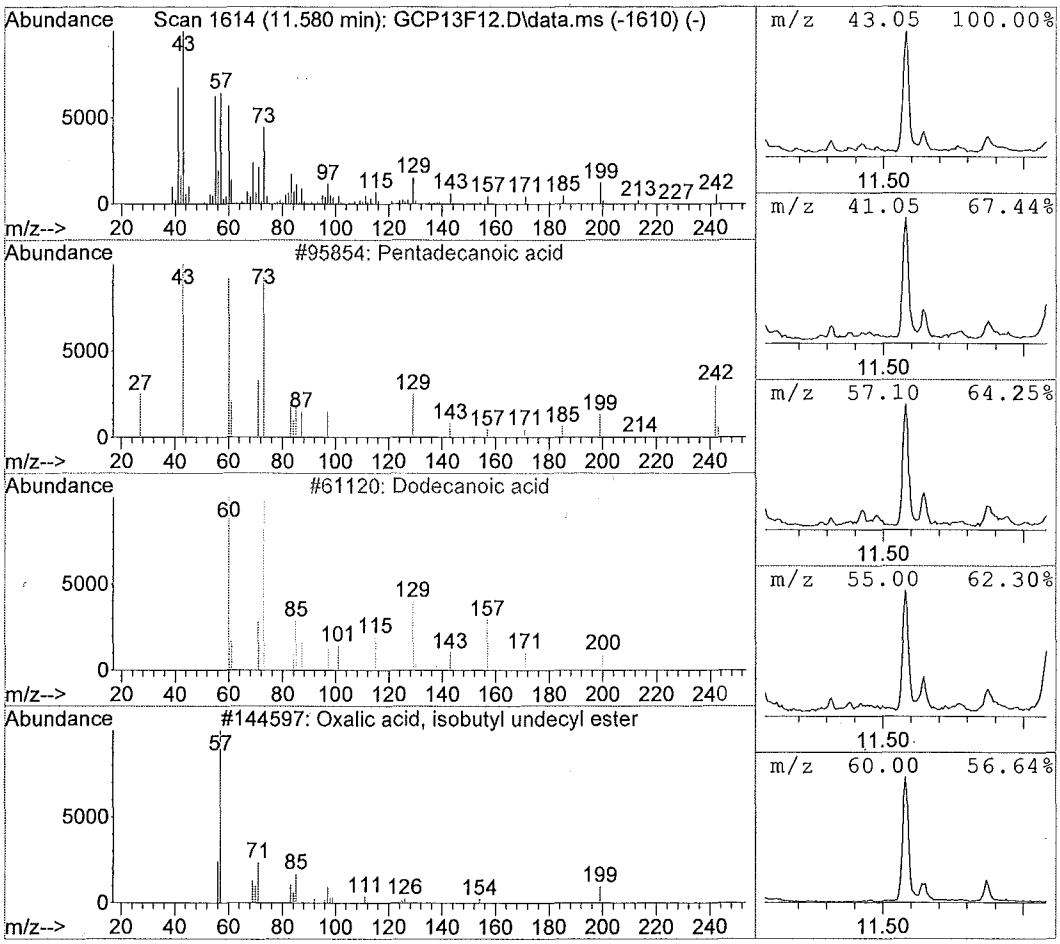
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP13F12.D Vial: 10
Acq On : 07/10/2015 17:02 Operator: TJM
Sample : 1515542012 F9M30 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
11.58	6.10 ug/ml	995910	Phenanthrene-d10	3265172

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentadecanoic acid	95854	001002-84-2	72.00
2	Dodecanoic acid	61120	000143-07-7	43.00
3	Oxalic acid, isobutyl undecyl ester	144597	1000309-37-6	38.00
4	Oxalic acid, isobutyl tetradecyl es	178452	1000309-37-9	30.00
5	Octane, 2,7-dimethyl-	19188	001072-16-8	25.00



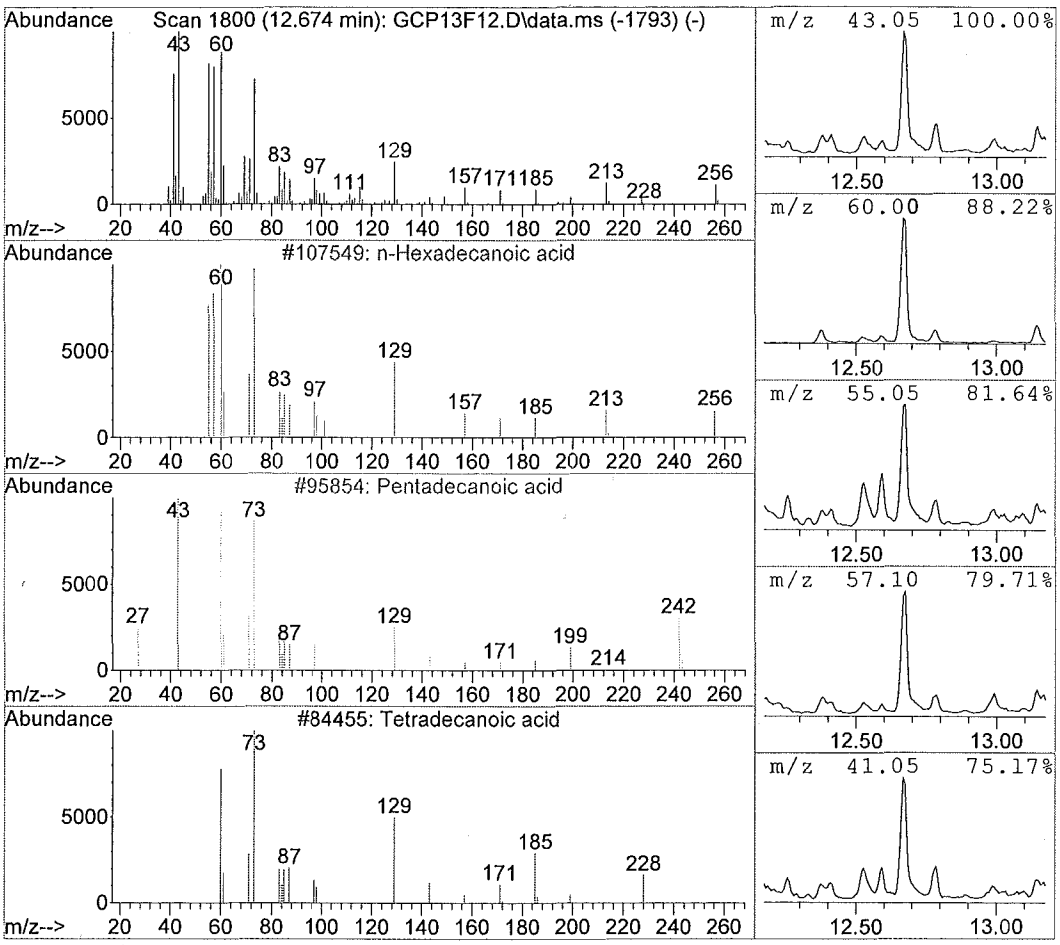
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP13F12.D Vial: 10
Acq On : 07/10/2015 17:02 Operator: TJM
Sample : 1515542012 F9M30 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
12.67	14.28 ug/ml	2330842	Phenanthrene-d10	3265172

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	n-Hexadecanoic acid	107549	000057-10-3	99.00
2	Pentadecanoic acid	95854	001002-84-2	83.00
3	Tetradecanoic acid	84455	000544-63-8	59.00
4	Undecanoic acid	50051	000112-37-8	53.00
5	n-Decanoic acid	39471	000334-48-5	52.00



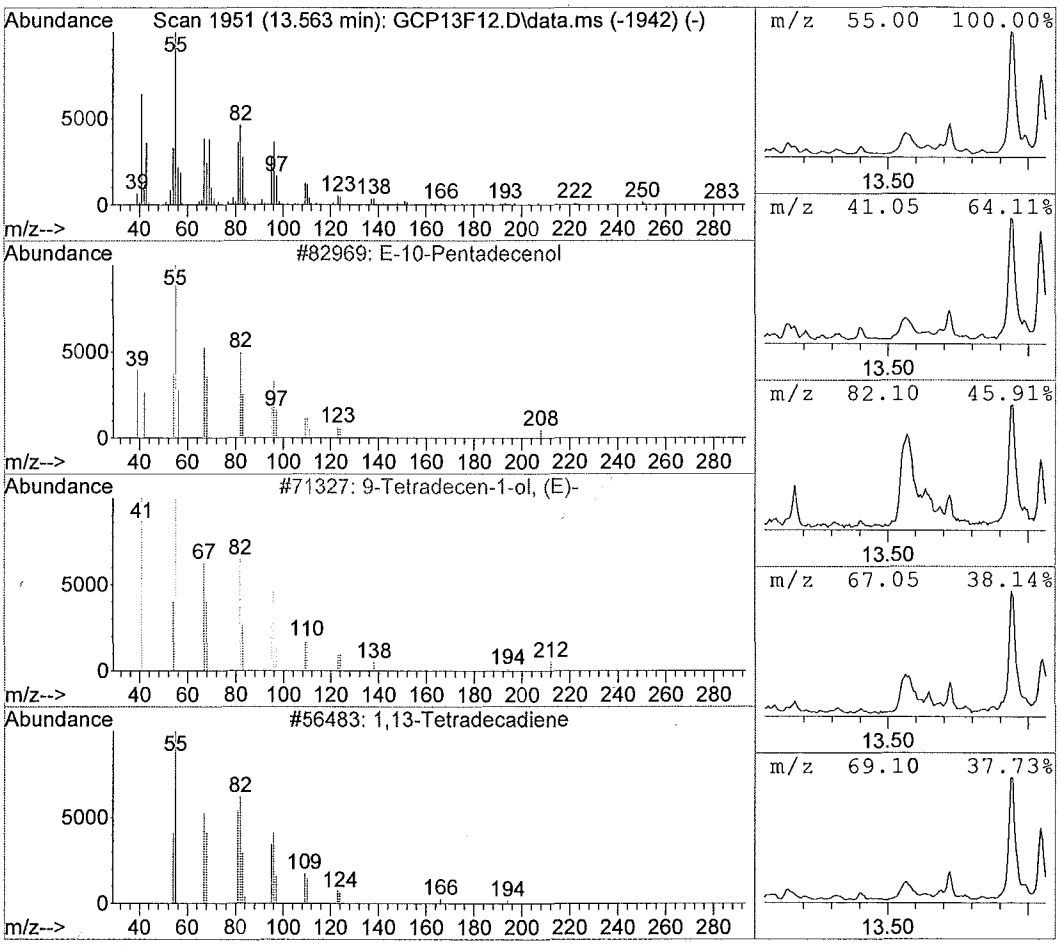
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP13F12.D Vial: 10
Acq On : 07/10/2015 17:02 Operator: TJM
Sample : 1515542012 F9M30 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
13.56	5.80 ug/ml	946499	Phenanthrene-d10	3265172

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	E-10-Pentadecenol	82969	1000245-48-4	90.00
2	9-Tetradecen-1-ol, (E)-	71327	052957-16-1	80.00
3	1,13-Tetradecadiene	56483	021964-49-8	80.00
4	9-Hexadecen-1-ol, (Z)-	94330	010378-01-5	78.00
5	1,15-Hexadecadiene	79558	021964-51-2	74.00



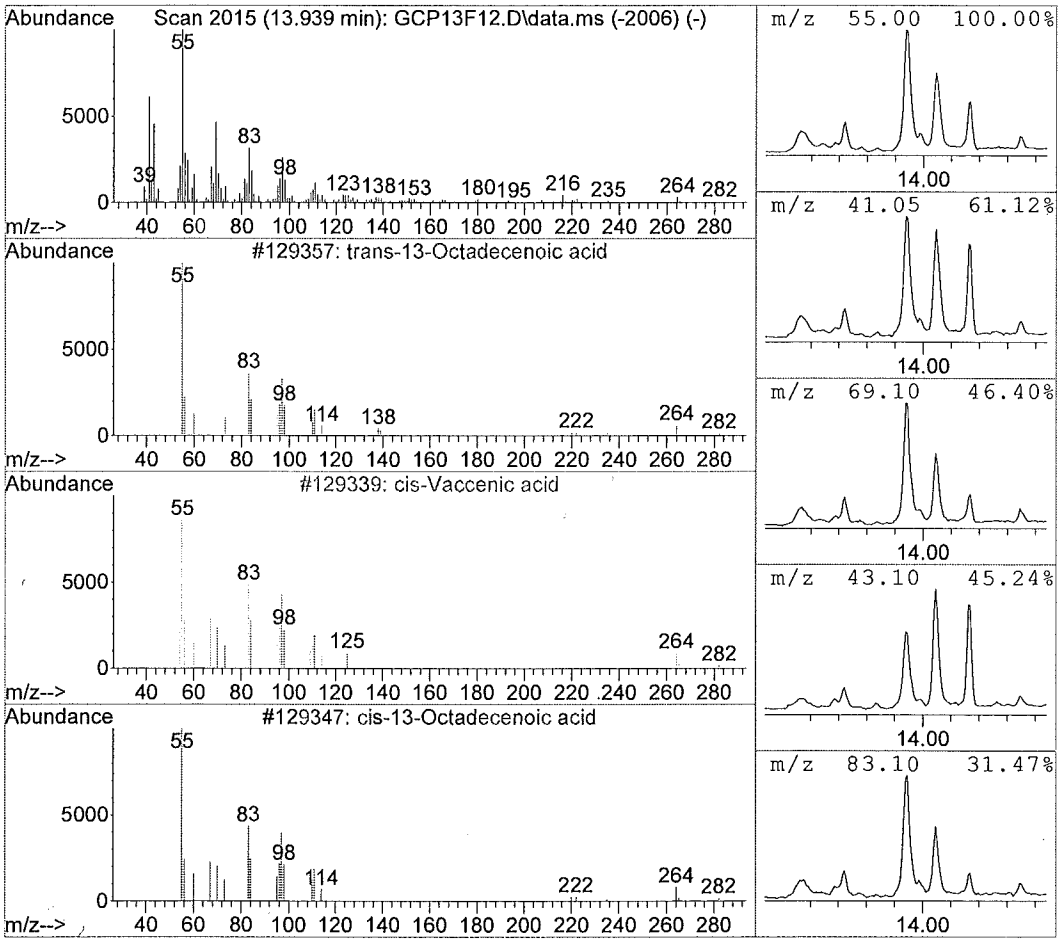
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP13F12.D Vial: 10
Acq On : 07/10/2015 17:02 Operator: TJM
Sample : 1515542012 F9M30 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
13.94	18.96 ug/ml	3053101	Chrysene-d12	3220913

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	trans-13-Octadecenoic acid	129357	000693-71-0	97.00
2	cis-Vaccenic acid	129339	000506-17-2	95.00
3	cis-13-Octadecenoic acid	129347	013126-39-1	91.00
4	cis-9-Hexadecenoic acid	105678	1000333-19-5	91.00
5	Oleic Acid	129335	000112-80-1	87.00



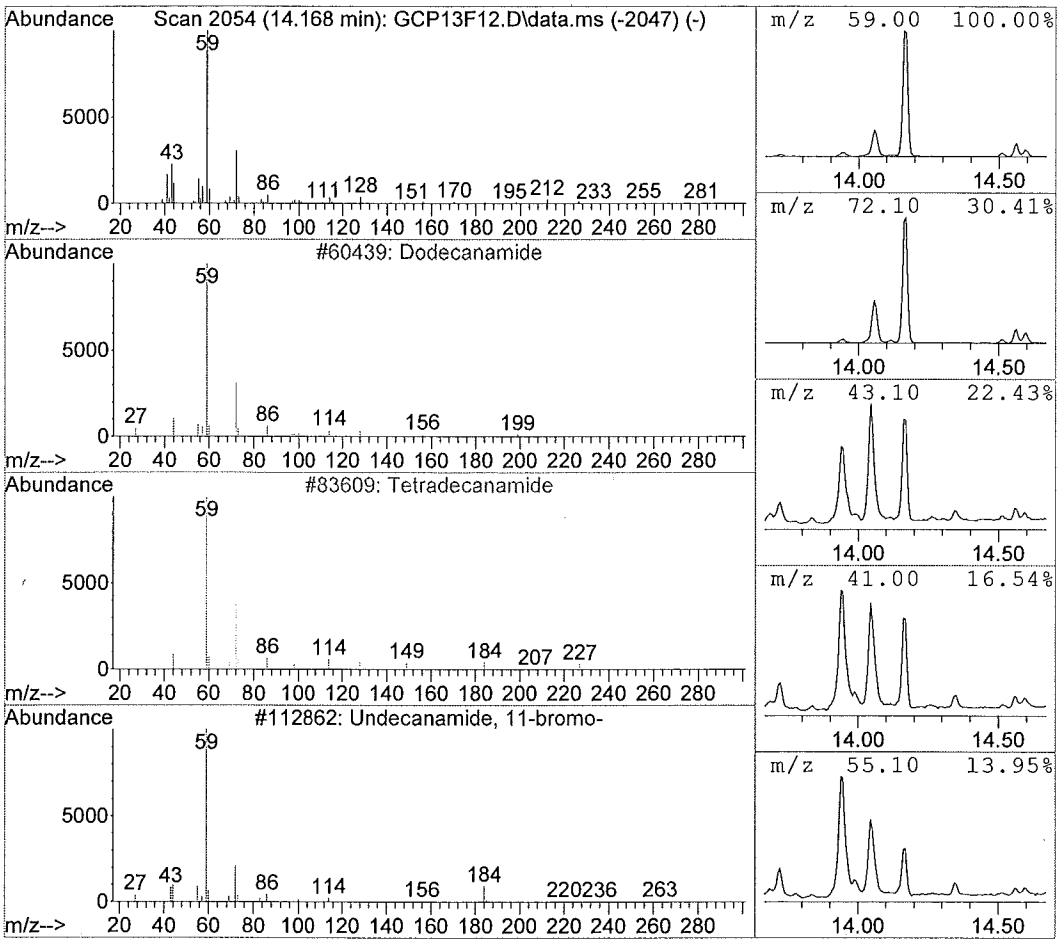
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP13F12.D Vial: 10
Acq On : 07/10/2015 17:02 Operator: TJM
Sample : 1515542012 F9M30 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
14.17	12.19 ug/ml	1962876	Chrysene-d12	3220913

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	90.00
2	Tetradecanamide	83609	000638-58-4	78.00
3	Undecanamide, 11-bromo-	112862	005875-26-3	78.00
4	Nonanamide	29478	001120-07-6	78.00
5	Decanamide-	38977	002319-29-1	74.00



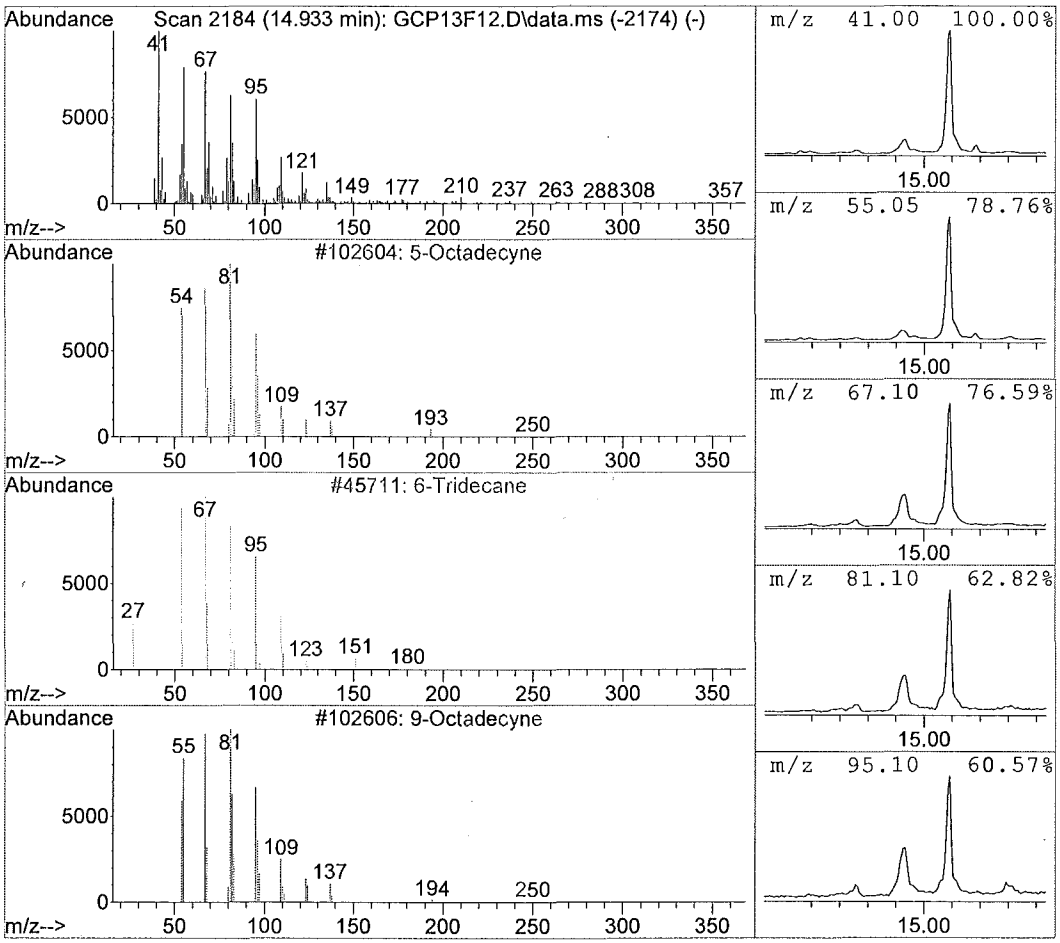
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP13F12.D Vial: 10
Acq On : 07/10/2015 17:02 Operator: TJM
Sample : 1515542012 F9M30 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
14.93	9.20 ug/ml	1482346	Chrysene-d12	3220913

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	5-Octadecyne	102604	071899-42-8	68.00
2	6-Tridecane	45711	042371-66-4	64.00
3	9-Octadecyne	102606	035365-59-4	62.00
4	9,12-Octadecadienoic acid (Z,Z)-	127648	000060-33-3	58.00
5	7-Heptadecyne, 17-chloro-	119360	056554-75-7	53.00



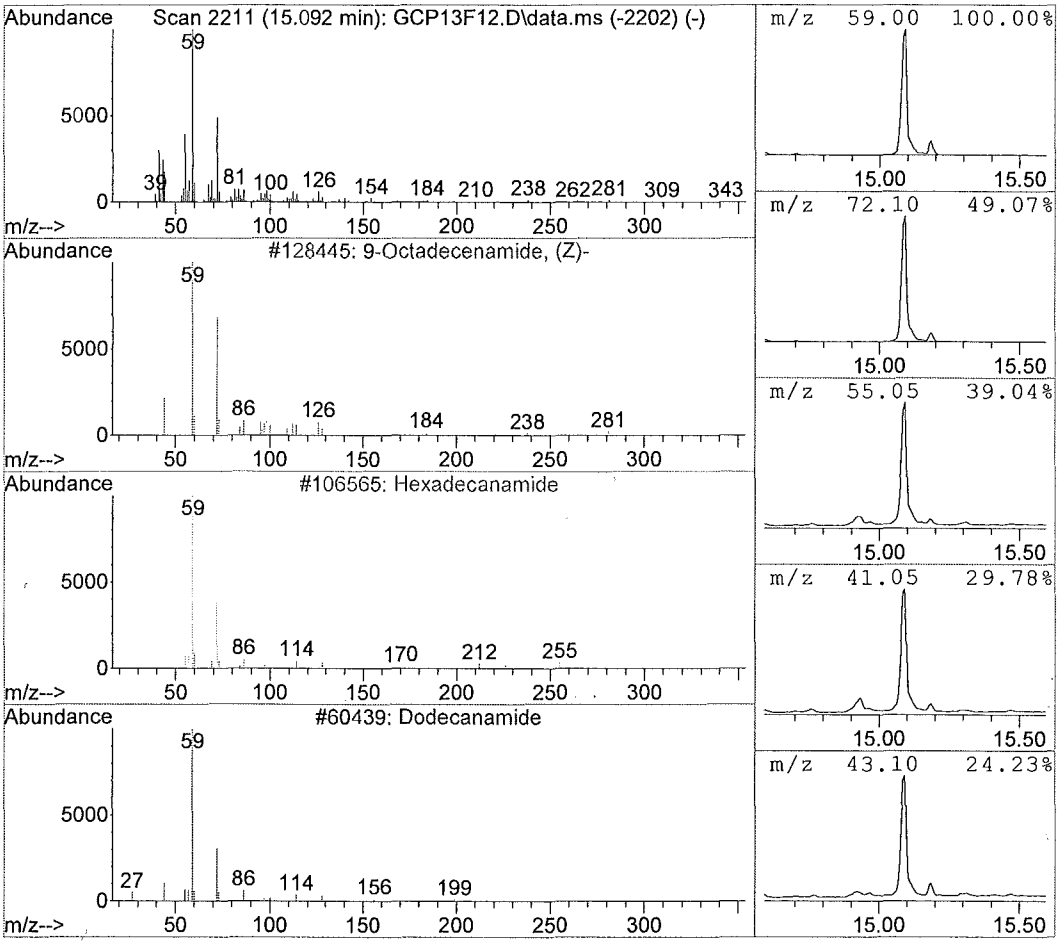
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP13F12.D Vial: 10
Acq On : 07/10/2015 17:02 Operator: TJM
Sample : 1515542012 F9M30 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
15.09	75.37 ug/ml	12137888	Chrysene-d12	3220913

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	98.00
2	Hexadecanamide	106565	000629-54-9	72.00
3	Dodecanamide	60439	001120-16-7	56.00
4	Tridecanoic acid, thiophen-2-ylmeth	162739	1000259-08-5	40.00
5	Pentanamide, 4-methyl-	7815	001119-29-5	40.00

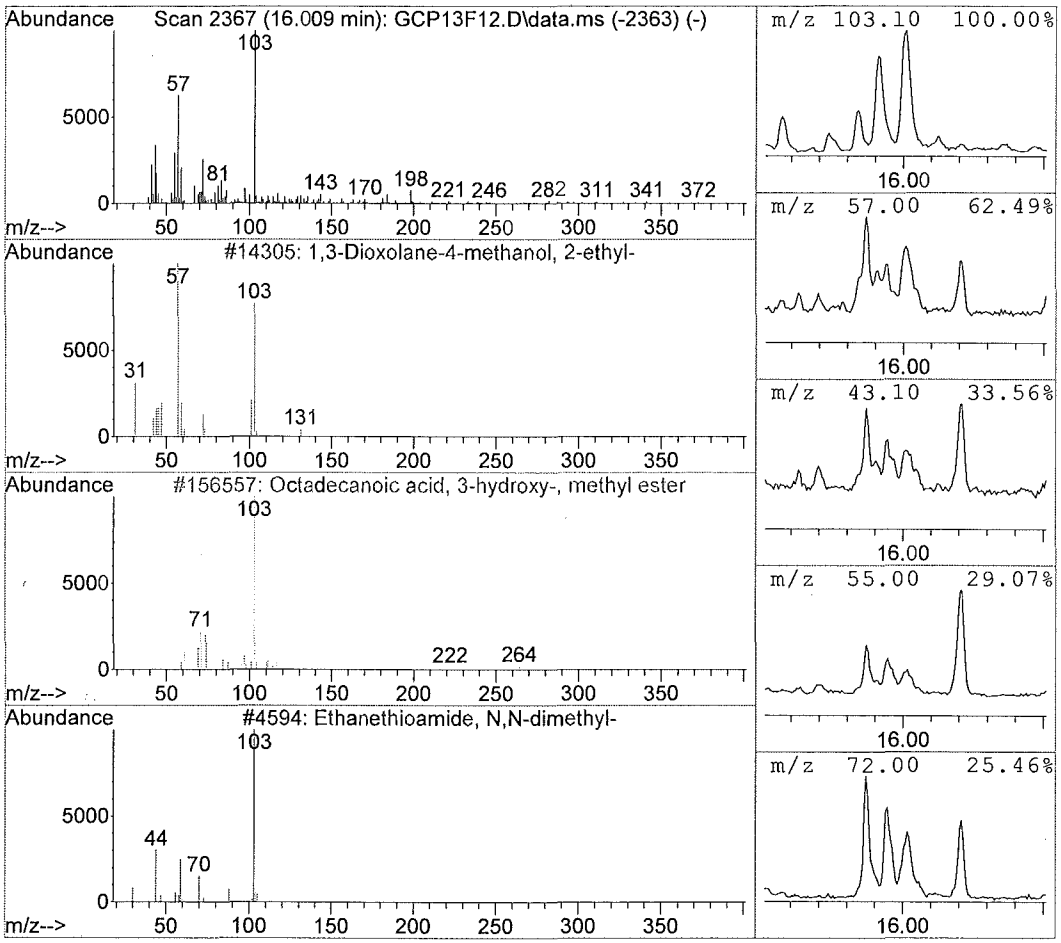


Data File : R:\G\2015\JUL15\10JUL15\GCP13F12.D Vial: 10
Acq On : 07/10/2015 17:02 Operator: TJM
Sample : 1515542012 F9M30 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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
16.01	5.66 ug/ml	910846	Chrysene-d12	3220913

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,3-Dioxolane-4-methanol, 2-ethyl-	14305	053951-44-3	50.00
2	Octadecanoic acid, 3-hydroxy-, meth	156557	002420-36-2	43.00
3	Ethanethioamide, N,N-dimethyl-	4594	000631-67-4	40.00
4	Hexadecanoic acid, 3-hydroxy-, meth	132970	051883-36-4	37.00
5	Dimethyl dl-malate	32436	038115-87-6	36.00



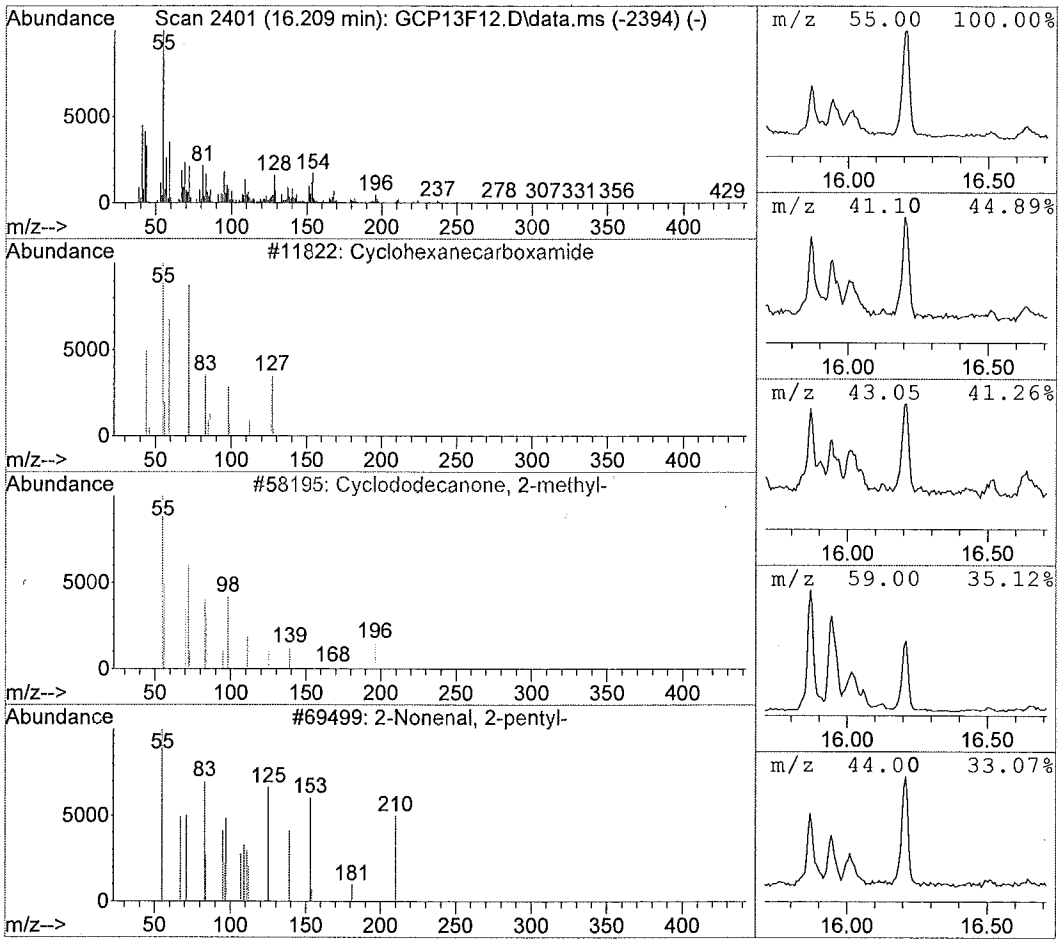
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP13F12.D Vial: 10
Acq On : 07/10/2015 17:02 Operator: TJM
Sample : 1515542012 F9M30 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
16.21	8.08 ug/ml	1300979	Chrysene-d12	3220913

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexanecarboxamide	11822	001122-56-1	12.00
2	Cyclododecanone, 2-methyl-	58195	016837-94-8	11.00
3	2-Nonenal, 2-pentyl-	69499	003021-89-4	10.00
4	Acetamide, N-hexyl-	20319	007501-79-3	10.00
5	Bicyclo[3.3.1]nonane-2,8-dione	26010	160651-01-4	10.00



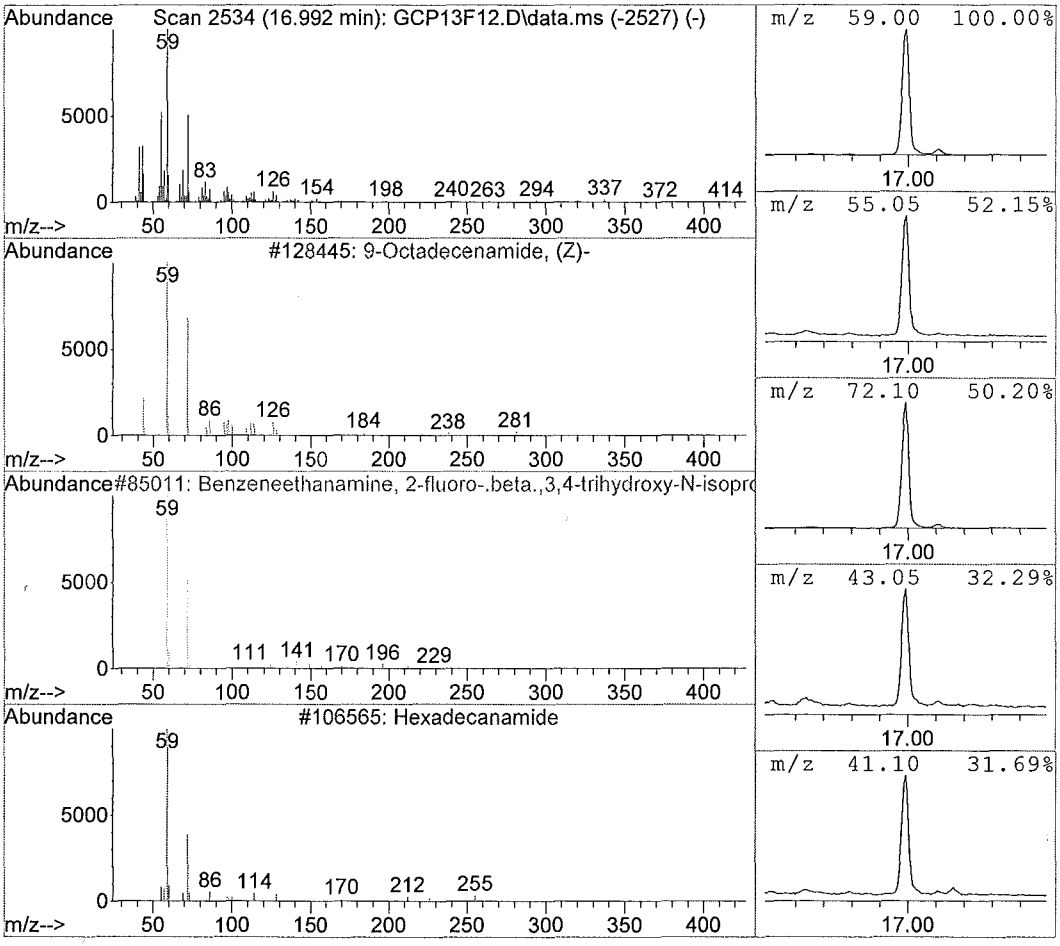
: 09919

Data File : R:\G\2015\JUL15\10JUL15\GCP13F12.D Vial: 10
Acq On : 07/10/2015 17:02 Operator: TJM
Sample : 1515542012 F9M30 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
16.99	40.21 ug/ml	5791167	Perylene-d12	2880120

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	91.00
2	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	64.00
3	Hexadecanamide	106565	000629-54-9	64.00
4	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	64.00
5	Tetradecanamide	83608	000638-58-4	56.00

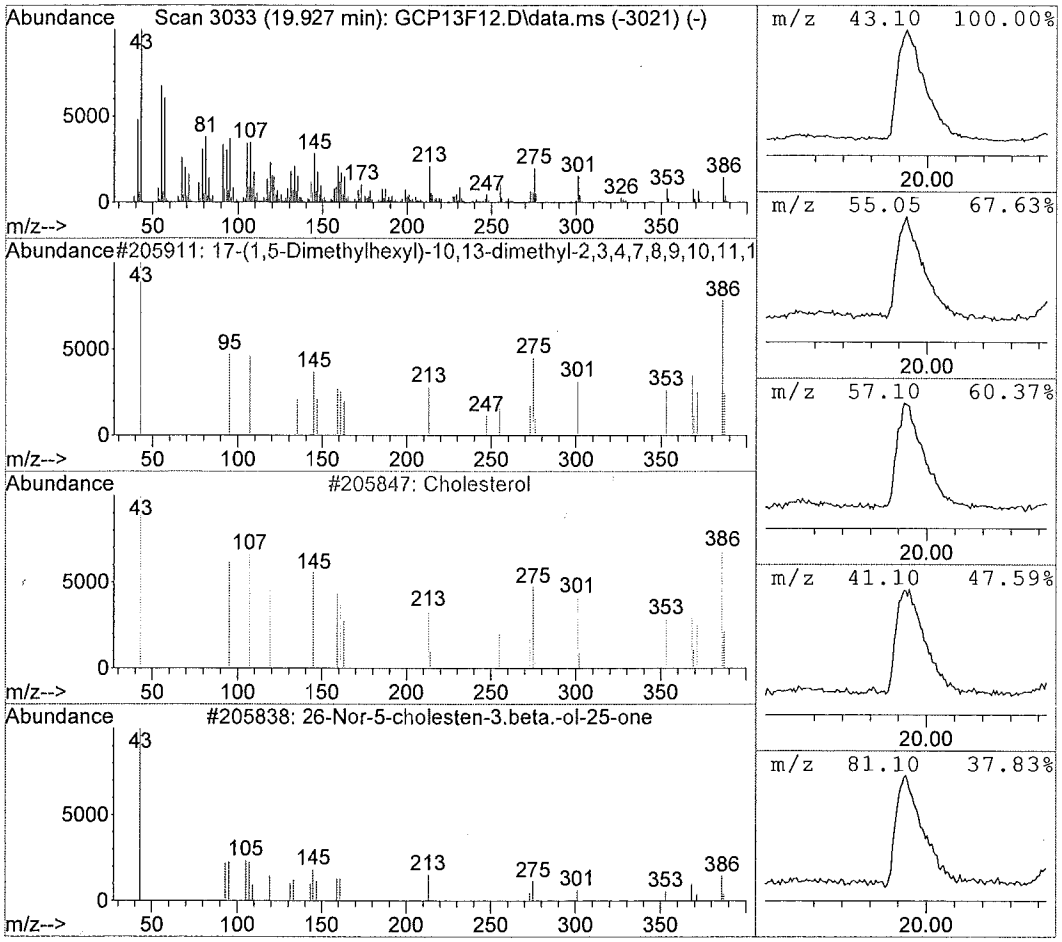


Data File : R:\G\2015\JUL15\10JUL15\GCP13F12.D Vial: 10
Acq On : 07/10/2015 17:02 Operator: TJM
Sample : 1515542012 F9M30 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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
19.93	45.31 ug/ml	6525148	Perylene-d12	2880120

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	17-(1,5-Dimethylhexyl)-10,13-dimeth	205911	1000210-38-4	99.00
2	Cholesterol	205847	000057-88-5	99.00
3	26-Nor-5-cholesten-3.beta.-ol-25-on	205838	007494-34-0	99.00
4	Cholest-5-en-3-ol, (3.alpha.)-	205887	000474-77-1	58.00
5	Cholestane, 4,5-epoxy-, (4.alpha.,5	205901	006079-19-2	55.00

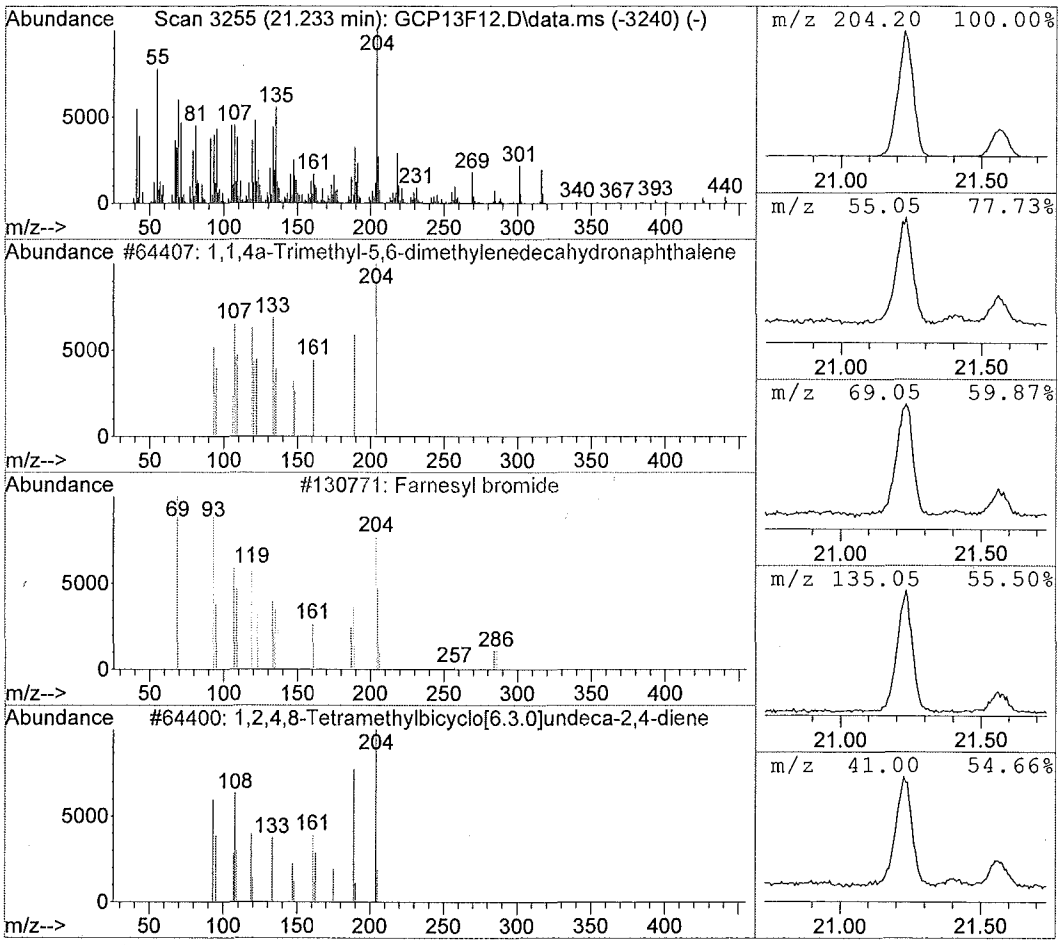


Data File : R:\G\2015\JUL15\10JUL15\GCP13F12.D Vial: 10
Acq On : 07/10/2015 17:02 Operator: TJM
Sample : 1515542012 F9M30 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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
21.23	37.02 ug/ml	5330786	Perylene-d12	2880120

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,1,4a-Trimethyl-5,6-dimethylenedec	64407	1000193-60-8	62.00
2	Farnesyl bromide	130771	006874-67-5	55.00
3	1,2,4,8-Tetramethylbicyclo[6.3.0]un	64400	137235-51-9	49.00
4	Naphthalene, 1,2,3,5,6,7,8,8a-octah	64546	004630-07-3	45.00
5	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	64569	000489-40-7	45.00



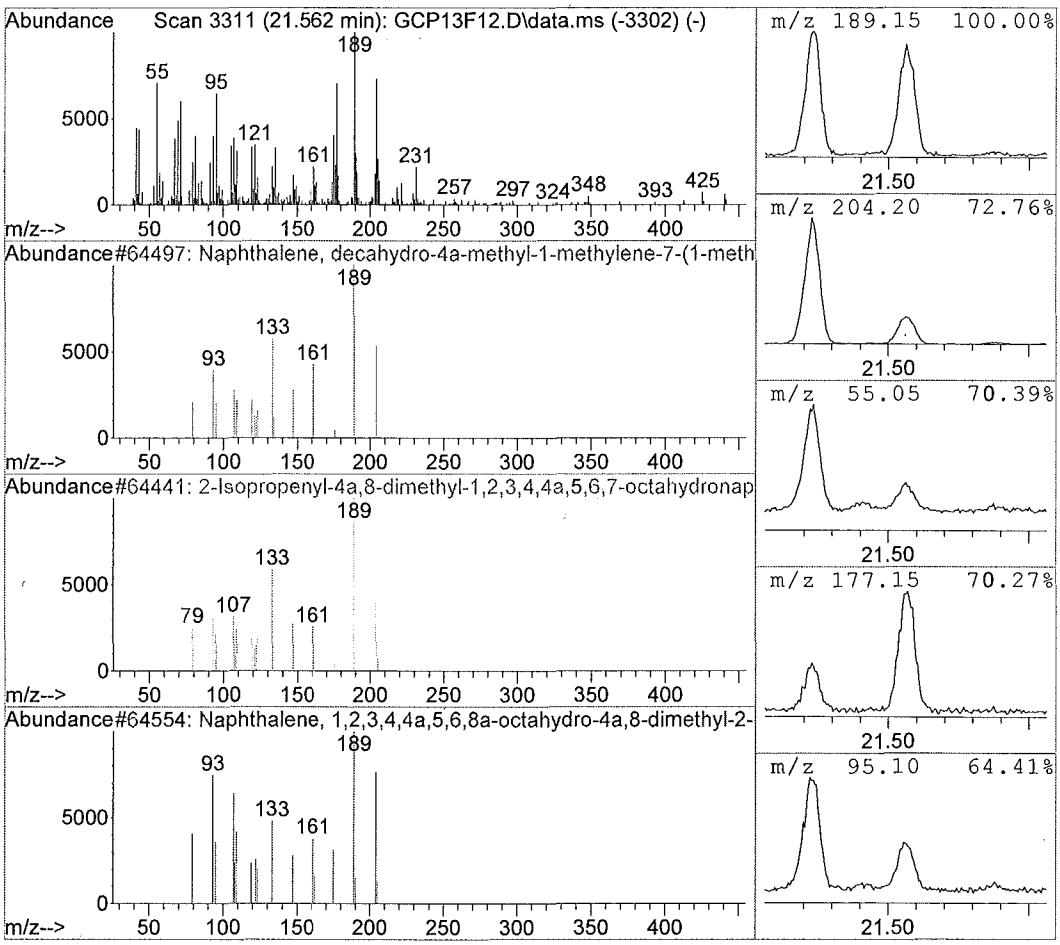
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP13F12.D Vial: 10
Acq On : 07/10/2015 17:02 Operator: TJM
Sample : 1515542012 F9M30 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	10.74 ug/ml	1546793	Perylene-d12	2880120

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, decahydro-4a-methyl-1-	64497	000515-17-3	49.00
2	2-Isopropenyl-4a,8-dimethyl-1,2,3,4	64441	1000192-43-5	46.00
3	Naphthalene, 1,2,3,4,4a,5,6,8a-octa	64554	000473-13-2	42.00
4	1H-3a,7-Methanoazulen-6-ol, octahyd	114222	000077-54-3	35.00
5	Aciphyllene	64263	087745-31-1	30.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M31

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GCP14F13

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

% Moisture: 15. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

GPC Cleanup: (Y/N) Y pH: 7.9 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.

F9M31

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GCP14F13

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

% Moisture: 15. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

GPC Cleanup: (Y/N) Y pH: 7.9 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	21.	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:
F9M31

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542013
Sample wt/vol: 30.3 (g/mL) g Lab File ID: GCP14F13
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 15. Decanted: (Y/N) N Date Received: 06/03/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015
GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 1.0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 1,2-Ethanediol	2.43	360	J
02		Unknown 2-Pentanone, 4-hydroxy-	3.31	1200	JB
03		Unknown Guanidine	3.53	24000	J
04		Unknown 1,3-Dioxolane-2-methanol, 2,4-dimethyl-	4.08	570	J
05		Unknown 1H-Pyrrole-2,5-dione	4.27	800	J
06		Unknown Ethanol, 2-(2-ethoxyethoxy)-	4.69	290	J
07		Unknown 3-Pentenoic acid, 4-methyl-	5.00	380	J
08		Unknown 2-Propanone, 1-hydroxy-	5.10	630	J
09	57-10-3	n-Hexadecanoic acid	12.66	270	JN
10	1120-16-7	Dodecanamide	14.16	430	JN
11	301-02-0	9-Octadecenamide, (Z)-	15.08	2000	JNB
12		Unknown Propionic acid, 2-acetylamino-3,3,3-trif	16.20	250	J
13		Unknown 13-Docosenamide, (Z)-	16.99	2000	J
14		Unknown Dithianone	18.62	900	J
15		Unknown 1,4-Dimethyl-8-isopropylidenetricyclo[5.	21.21	710	J
16		Unknown Terephthalic acid, octyl 2-phenylethyl e	23.30	670	J
17		Unknown 9,19-Cycloergost-24(28)-en-3-ol, 4,14-di	23.74	740	J
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	2800	J

[2] EPA-designated Registry Number.

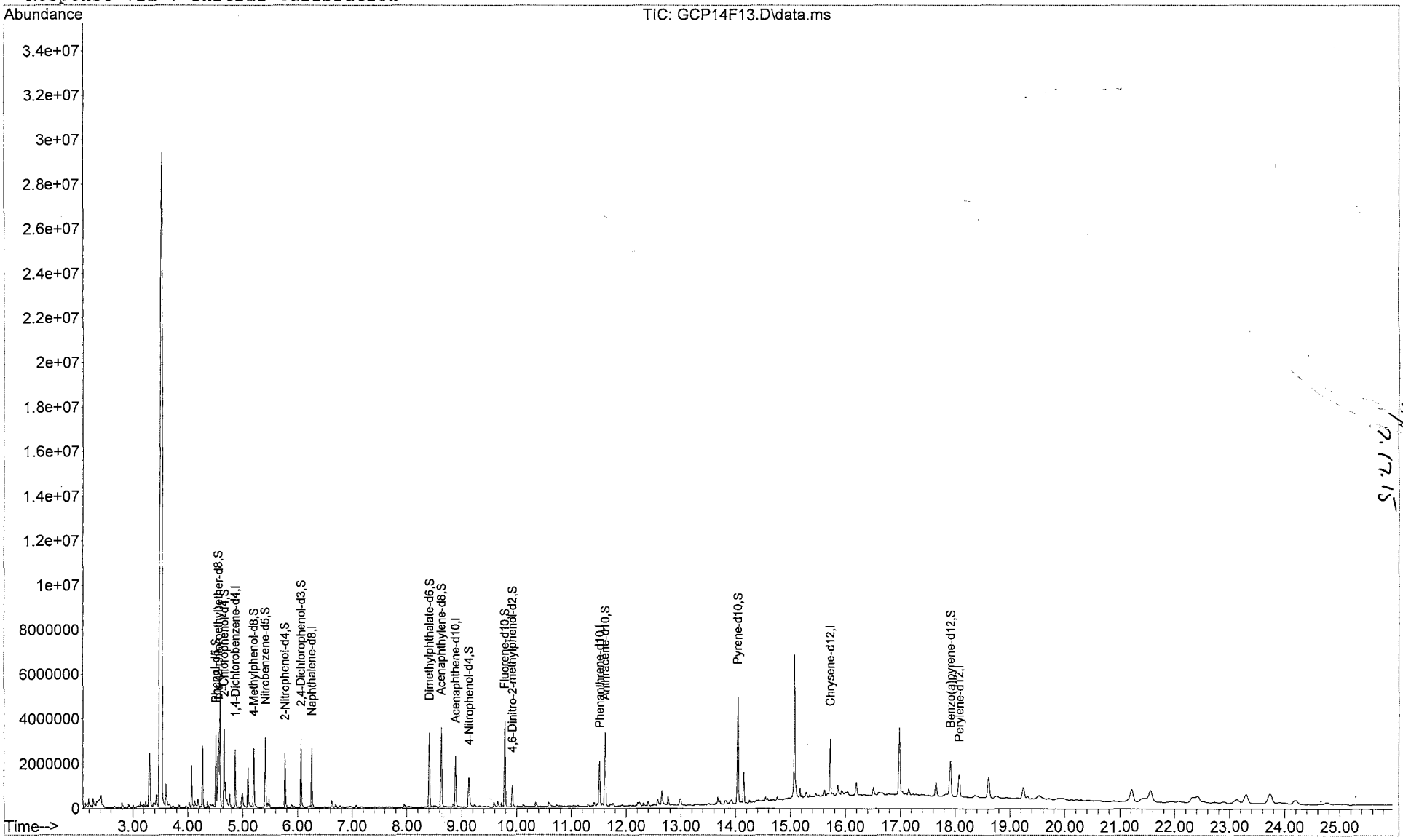
Quantitation Report

Data File : R:\G\2015\JUL15\10JUL15\GCP14F13.D
Acq On : 07/10/2015 17:35
Sample : 1515542013 F9M31
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 11
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jul 17 08:48:44 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\10JUL15\GCP14F13.D Vial: 11
Acq On : 07/10/2015 17:35 Operator: TJM
Sample : 1515542013 F9M31 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 17 08:48:44 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	331580	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1228705	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	694932	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1126867	20.00 ug/ml
73) Chrysene-d12	15.73	240	1075396	20.00 ug/ml
81) Perylene-d12	18.08	264	700905	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.52	99	959017	33.236ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	686997	30.551ug/mL
7) 2-Chlorophenol-d4	4.67	132	805976	33.082ug/ml
13) 4-Methylphenol-d8	5.21	113	544518	28.214ug/mL
17) Nitrobenzene-d5	5.42	128	352941	32.698ug/ml
21) 2-Nitrophenol-d4	5.77	143	376623	33.011ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	606466	34.138ug/mL
28) 4-Chloroaniline-d4	6.32	131	3415	0.176ug/mL
42) Dimethylphthalate-d6	8.42	166	1662377	38.148ug/mL
45) Acenaphthylene-d8	8.63	160	2022658	34.155ug/mL
50) 4-Nitrophenol-d4	9.13	143	300950	33.853ug/mL
57) Fluorene-d10	9.79	176	1382321	37.145ug/mL
61) 4,6-Dinitro-2-methylphenol	9.93	200	153057	19.136ug/mL
69) Anthracene-d10	11.62	188	1965781	32.896ug/mL
75) Pyrene-d10	14.04	212	2049800	38.195ug/mL
86) Benzo(a)pyrene-d12	17.92	264	1087490	32.379ug/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)

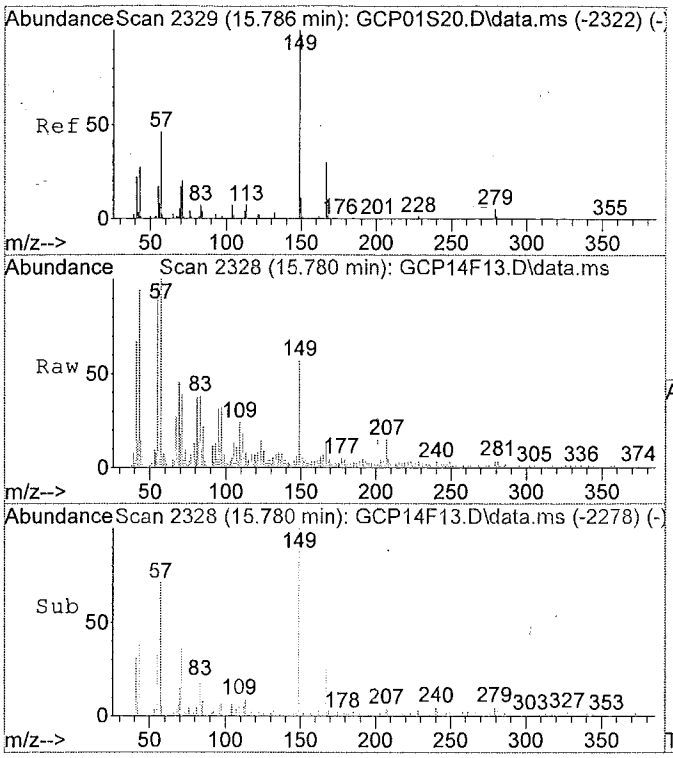
Quantitation Report

Data File : R:\G\2015\JUL15\10JUL15\GCP14F13.D Vial: 11
Acq On : 07/10/2015 17:35 Operator: TJM
Sample : 1515542013 F9M31 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 17 08:48:44 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	28684	0.539ug/ml	93
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	

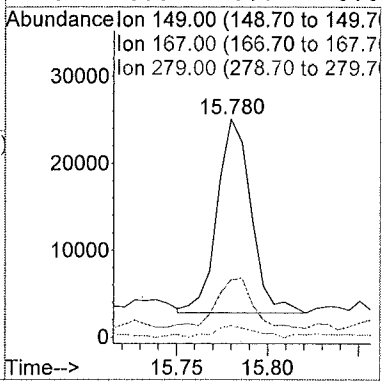
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)



#80
Bis-(2-ethylhexyl)phthalate
Concen: 0.54 ug/ml
RT: 15.78 min Scan# 2328
Delta R.T. -0.01 min
Lab File: GCP14F13.D
Acq: 07/10/2015 17:35

Tgt Ion:149 Resp: 28684

Ion	Ratio	Lower	Upper
149	100		
167	26.9	22.0	40.8
279	6.8	5.0	9.2
0	0.0	0.0	0.0



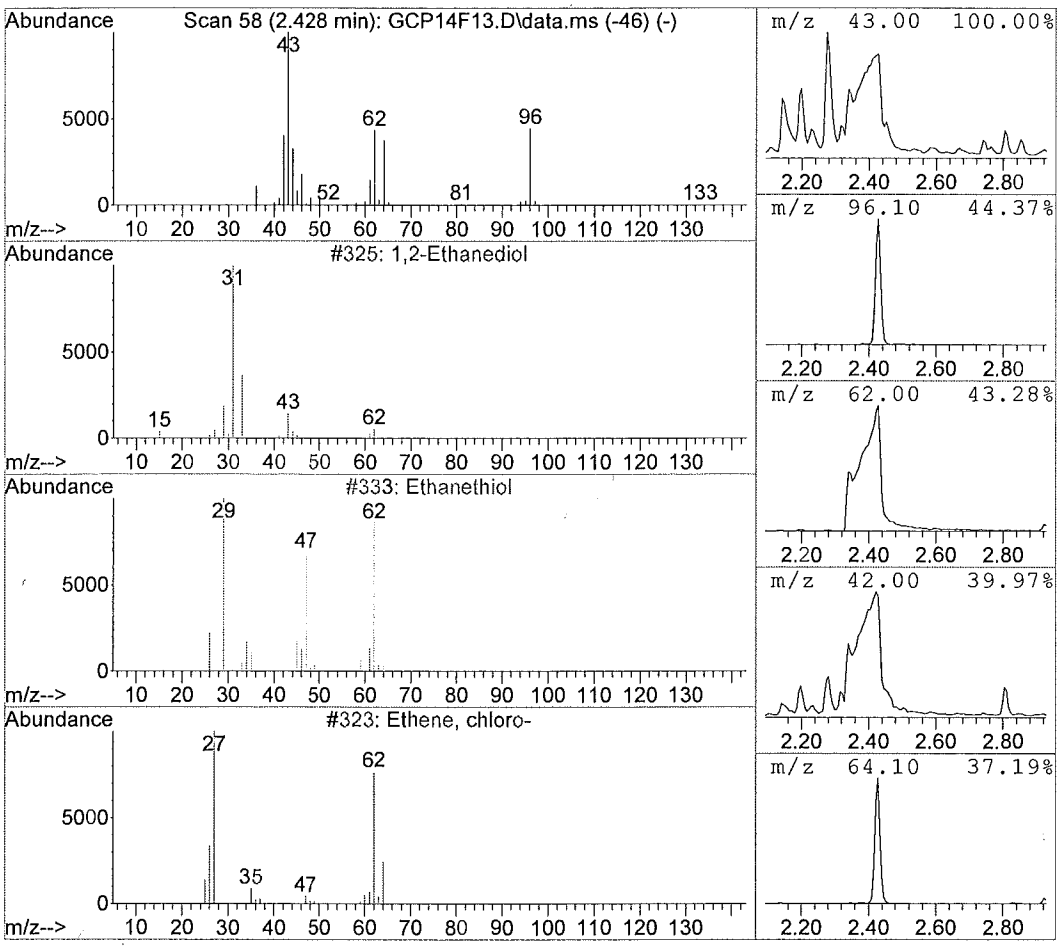
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP14F13.D Vial: 11
Acq On : 07/10/2015 17:35 Operator: TJM
Sample : 1515542013 F9M31 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
2.43	9.25 ug/ml	1154436	1,4-Dichlorobenzene-d4	2497142

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2-Ethanediol	325	000107-21-1	7.00
2	Ethanethiol	333	000075-08-1	5.00
3	Ethene, chloro-	323	000075-01-4	5.00
4	Peroxide, dimethyl	330	000690-02-8	4.00
5	Glyceraldehyde	2255	000056-82-6	4.00



00331

Library Search Compound Report

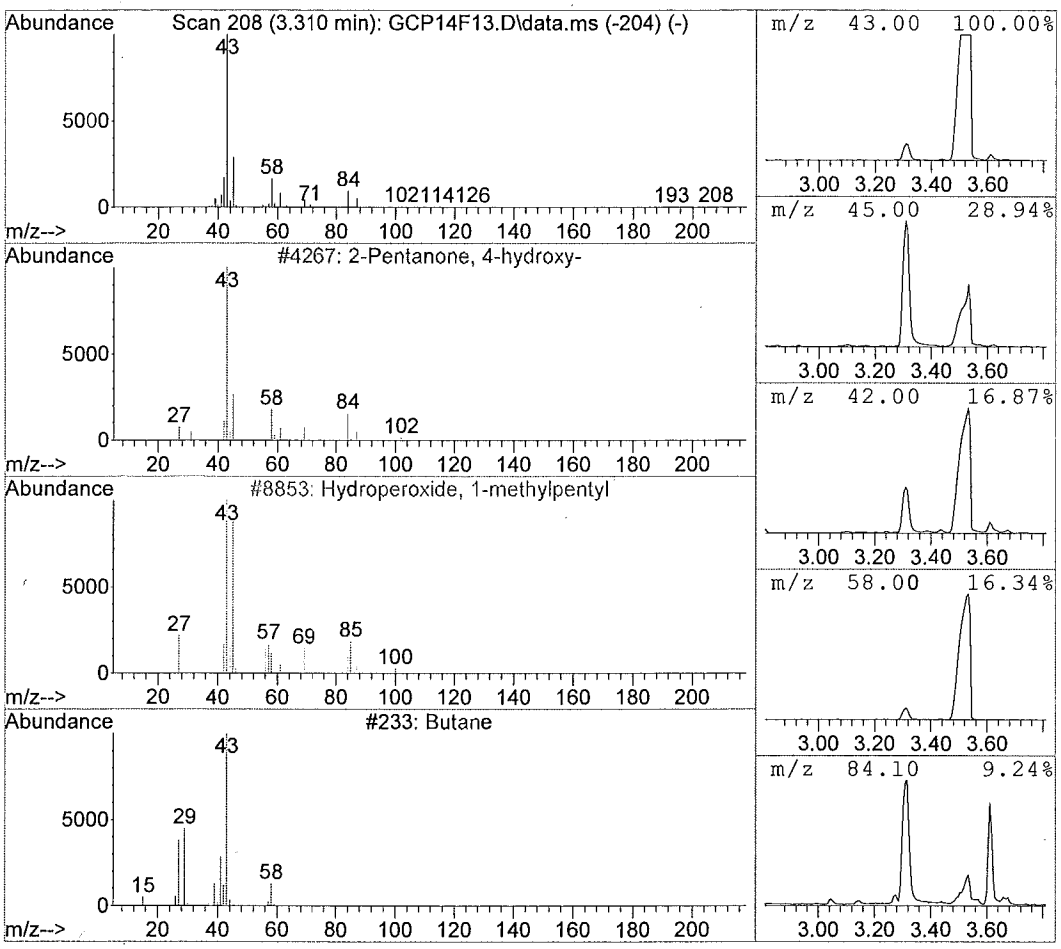
Data File : R:\G\2015\JUL15\10JUL15\GCP14F13.D
Acq On : 07/10/2015 17:35
Sample : 1515542013 F9M31
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 11
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
3.31	30.16 ug/ml	3766154	1,4-Dichlorobenzene-d4	2497142

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	33.00
2	Hydroperoxide, 1-methylpentyl	8853	024254-55-5	33.00
3	Butane	233	000106-97-8	9.00
4	1-Tetrazol-2-ylethanone	6198	051410-11-8	9.00
5	Oxirane, 2,3-dimethyl-, cis-	703	001758-33-4	9.00



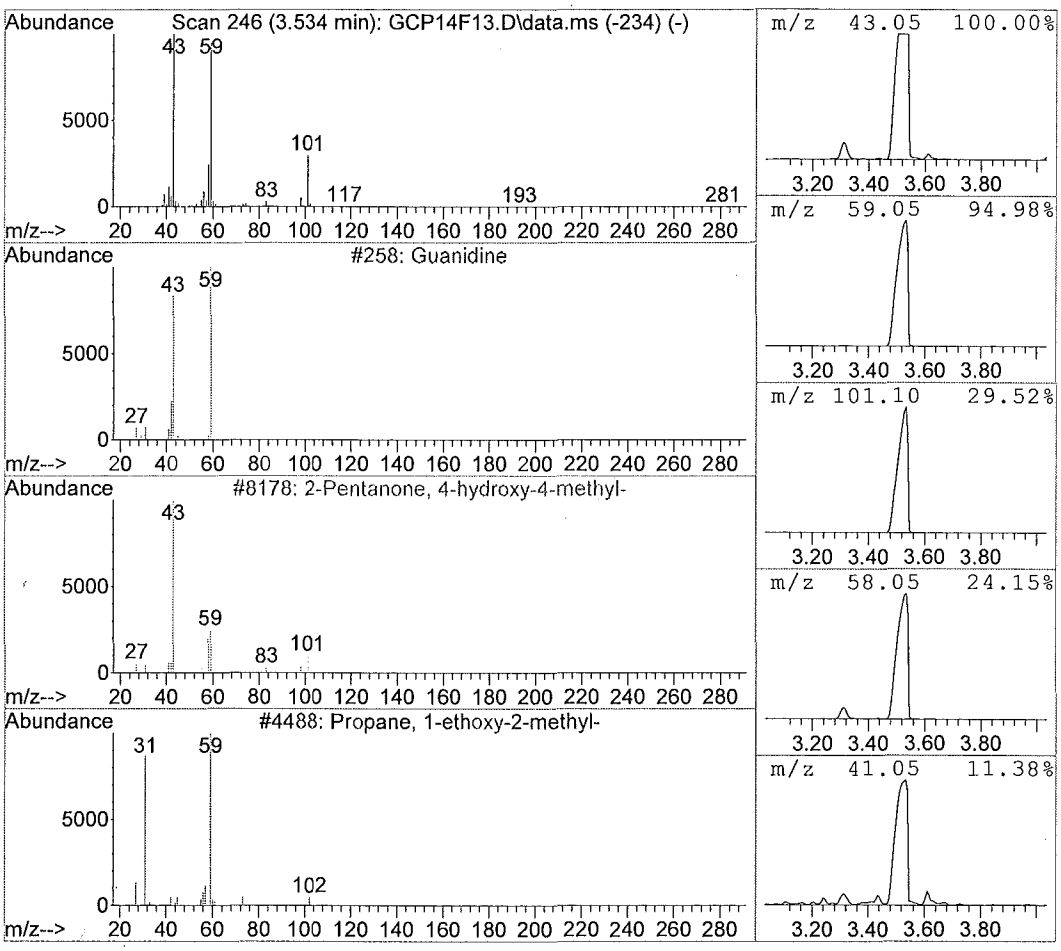
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP14F13.D Vial: 11
Acq On : 07/10/2015 17:35 Operator: TJM
Sample : 1515542013 F9M31 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
3.53	625.13 ug/ml	78052306	1,4-Dichlorobenzene-d4	2497142

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Guanidine	258	000113-00-8	52.00
2	2-Pentanone, 4-hydroxy-4-methyl-	8178	000123-42-2	50.00
3	Propane, 1-ethoxy-2-methyl-	4488	000627-02-1	32.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
5	Propane, 2-ethoxy-2-methyl-	4485	000637-92-3	23.00



Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP14F13.D
Acq On : 07/10/2015 17:35
Sample : 1515542013 F9M31
Misc : . SOIL SOM
MS Integration Params: rteint.p

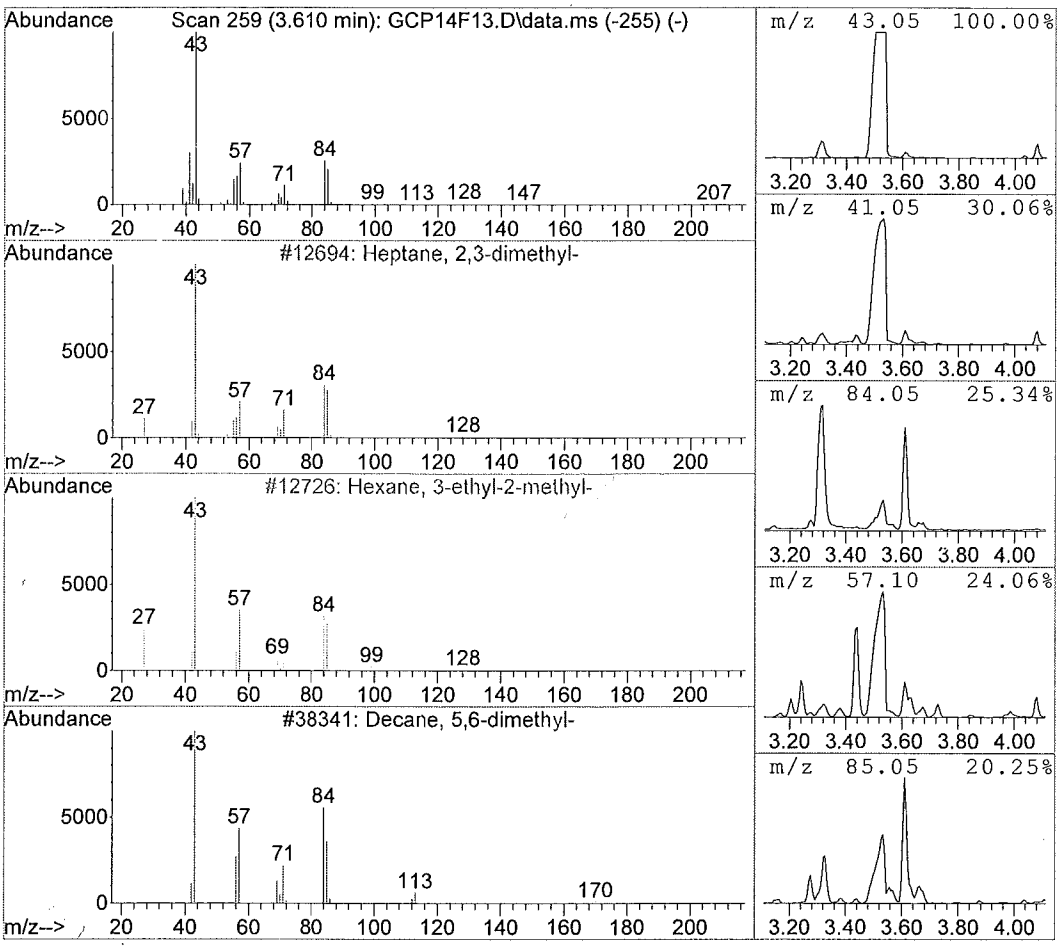
Vial: 11
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

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
3.61	9.16 ug/ml	1144145	1,4-Dichlorobenzene-d4	2497142

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12694	003074-71-3	91.00
2	Hexane, 3-ethyl-2-methyl-	12726	016789-46-1	83.00
3	Decane, 5,6-dimethyl-	38341	001636-43-7	64.00
4	1-Octene, 4-methyl-	11522	013151-12-7	64.00
5	Heptane, 2,4-dimethyl-	12695	002213-23-2	53.00

BA



: 00334

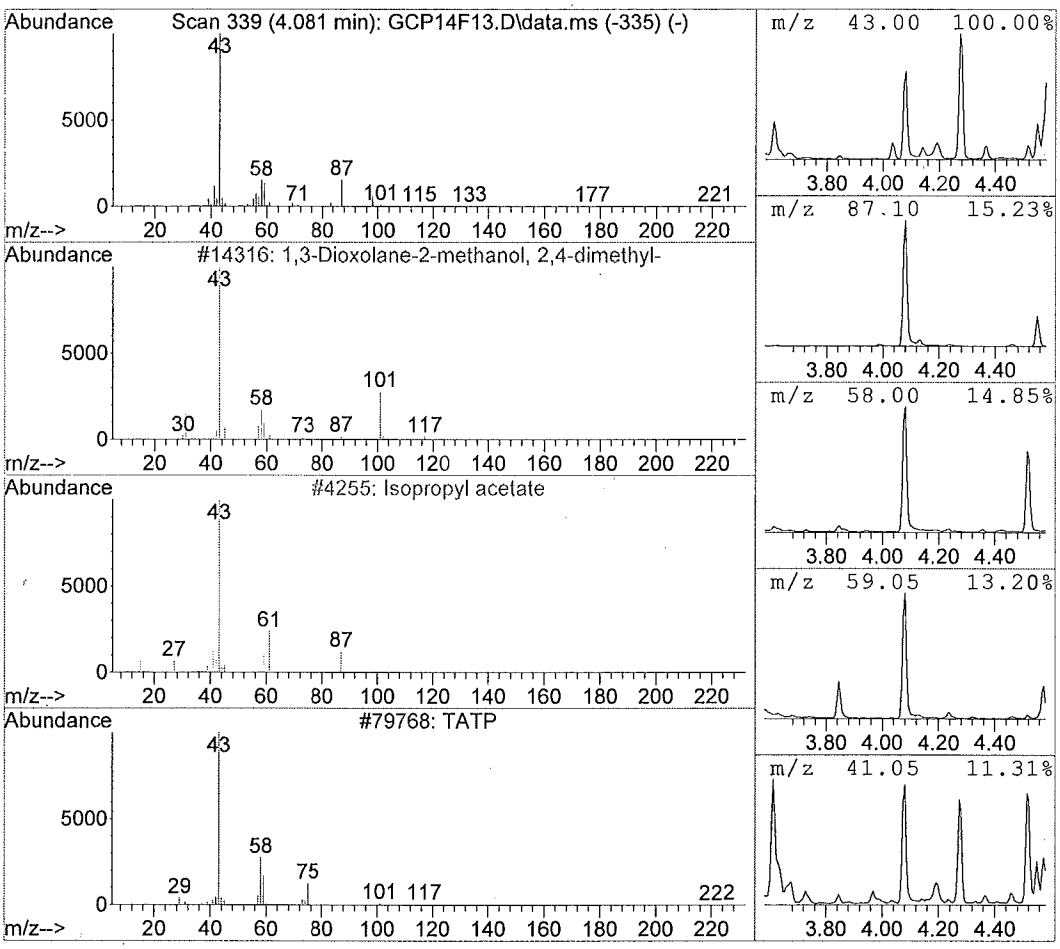
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP14F13.D Vial: 11
Acq On : 07/10/2015 17:35 Operator: TJM
Sample : 1515542013 F9M31 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
4.08	14.53 ug/ml	1814105	1,4-Dichlorobenzene-d4	2497142

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,3-Dioxolane-2-methanol, 2,4-dimet	14316	053951-43-2	33.00
2	Isopropyl acetate	4255	000108-21-4	25.00
3	TATP	79768	017088-37-8	17.00
4	1-Pentanamine	1907	000110-58-7	9.00
5	S-(-)-2-Methylbutylamine	1929	020626-52-2	9.00



: 00335

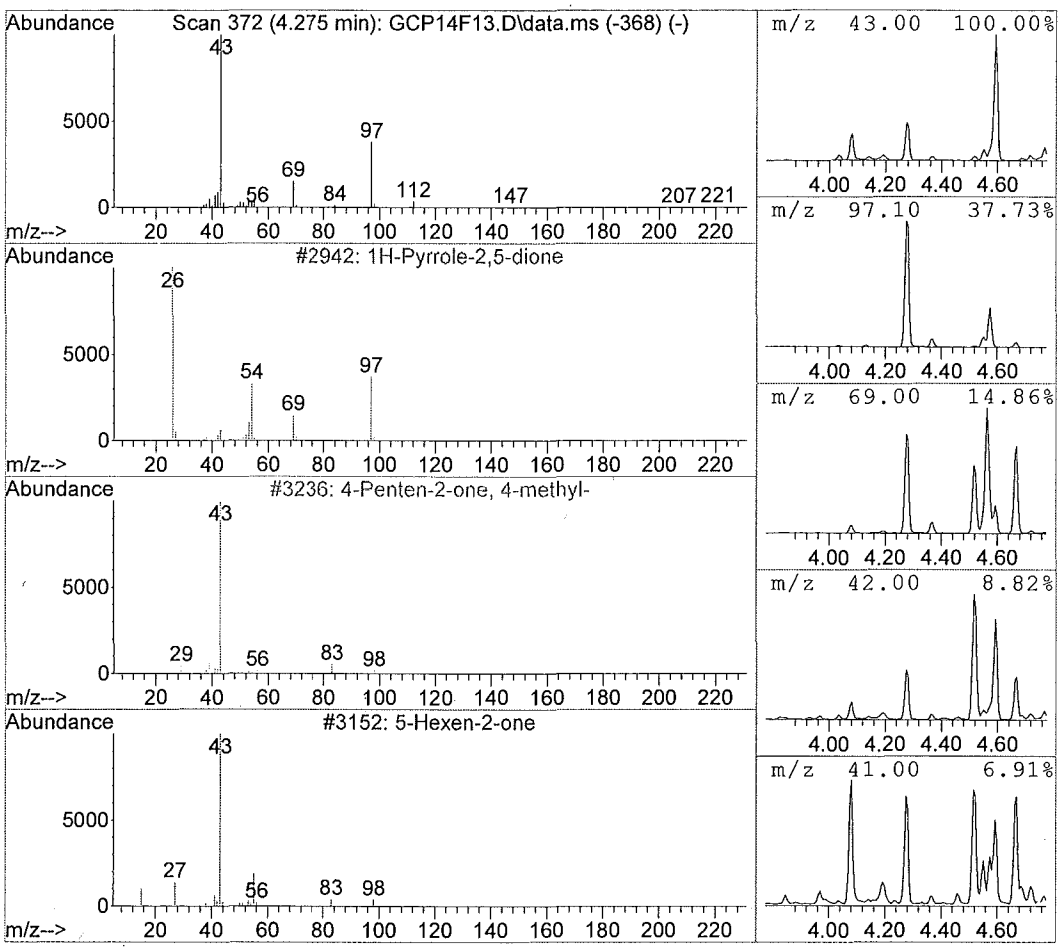
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP14F13.D Vial: 11
Acq On : 07/10/2015 17:35 Operator: TJM
Sample : 1515542013 F9M31 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	20.65 ug/ml	2578099	1,4-Dichlorobenzene-d4	2497142

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	32.00
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	5-Hexen-2-one, 5-methyl-	6517	003240-09-3	5.00



Library Search Compound Report

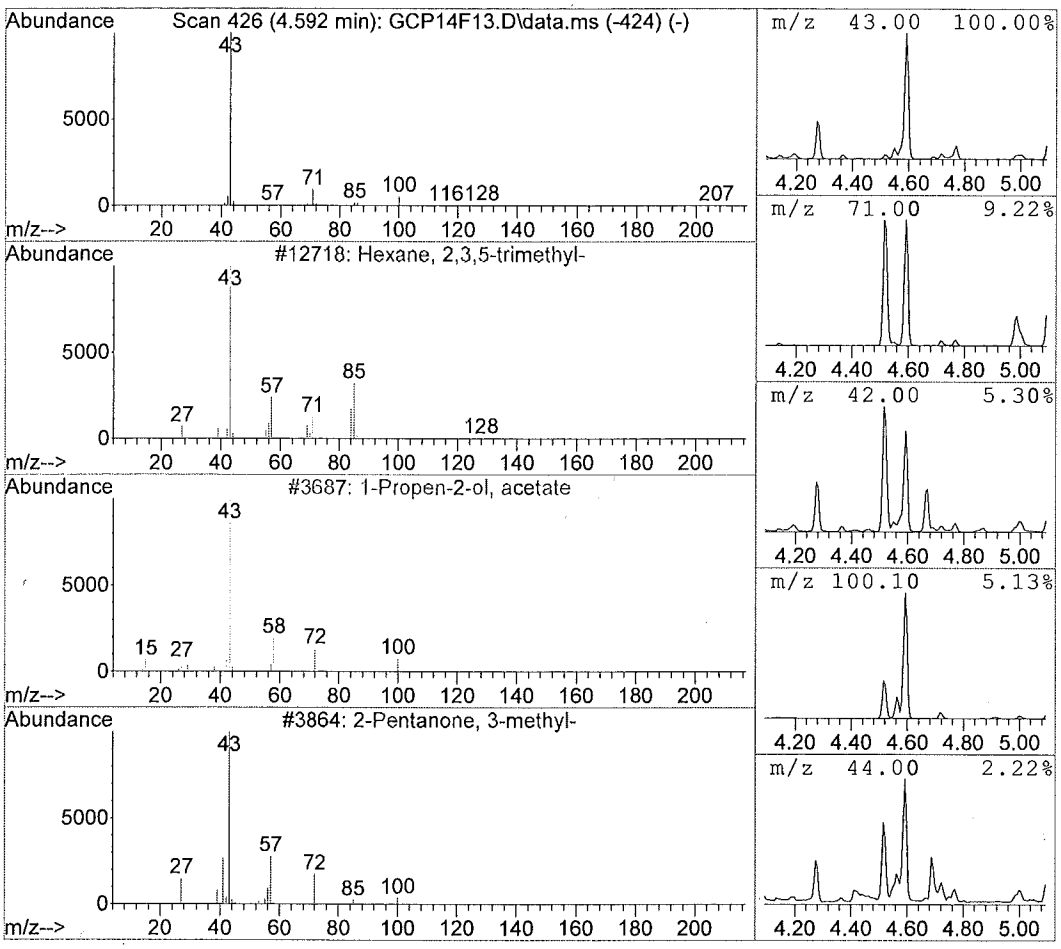
Data File : R:\G\2015\JUL15\10JUL15\GCP14F13.D Vial: 11
Acq On : 07/10/2015 17:35 Operator: TJM
Sample : 1515542013 F9M31 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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	39.98 ug/ml	4992167	1,4-Dichlorobenzene-d4	2497142

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	7.00
2	1-Propen-2-ol, acetate	3687	000108-22-5	5.00
3	2-Pentanone, 3-methyl-	3864	000565-61-7	5.00
4	2,3-Pentanedione	3673	000600-14-6	5.00
5	Heptane	3970	000142-82-5	5.00

BA



00337

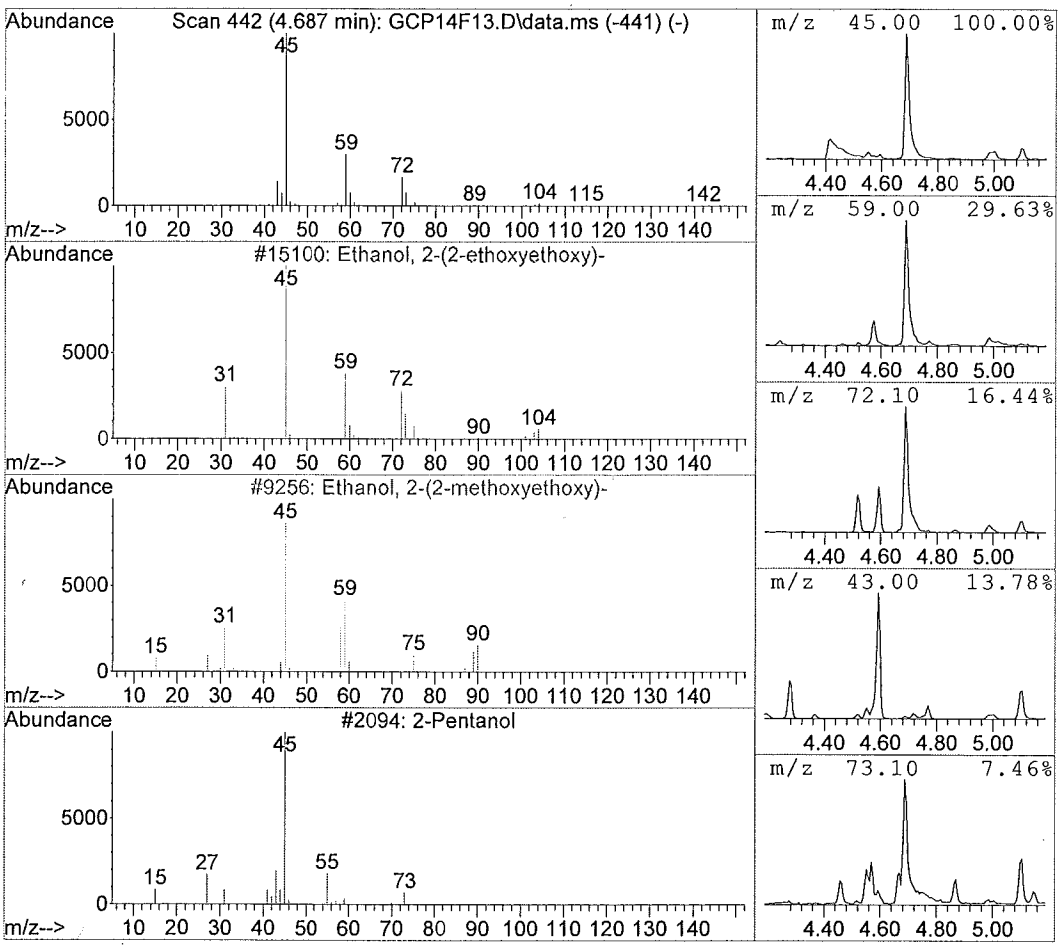
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP14F13.D Vial: 11
Acq On : 07/10/2015 17:35 Operator: TJM
Sample : 1515542013 F9M31 Inst : 5975-G
Misc : . SOIL SOM Injection volume : luL
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	7.41 ug/ml	925312	1,4-Dichlorobenzene-d4	2497142

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethanol, 2-(2-ethoxyethoxy)-	15100	000111-90-0	47.00
2	Ethanol, 2-(2-methoxyethoxy)-	9256	000111-77-3	39.00
3	2-Pentanol	2094	006032-29-7	36.00
4	Methoxyacetic acid, butyl ester	21952	017640-22-1	33.00
5	1-Propanol, 3-mercapto-	2423	019721-22-3	9.00



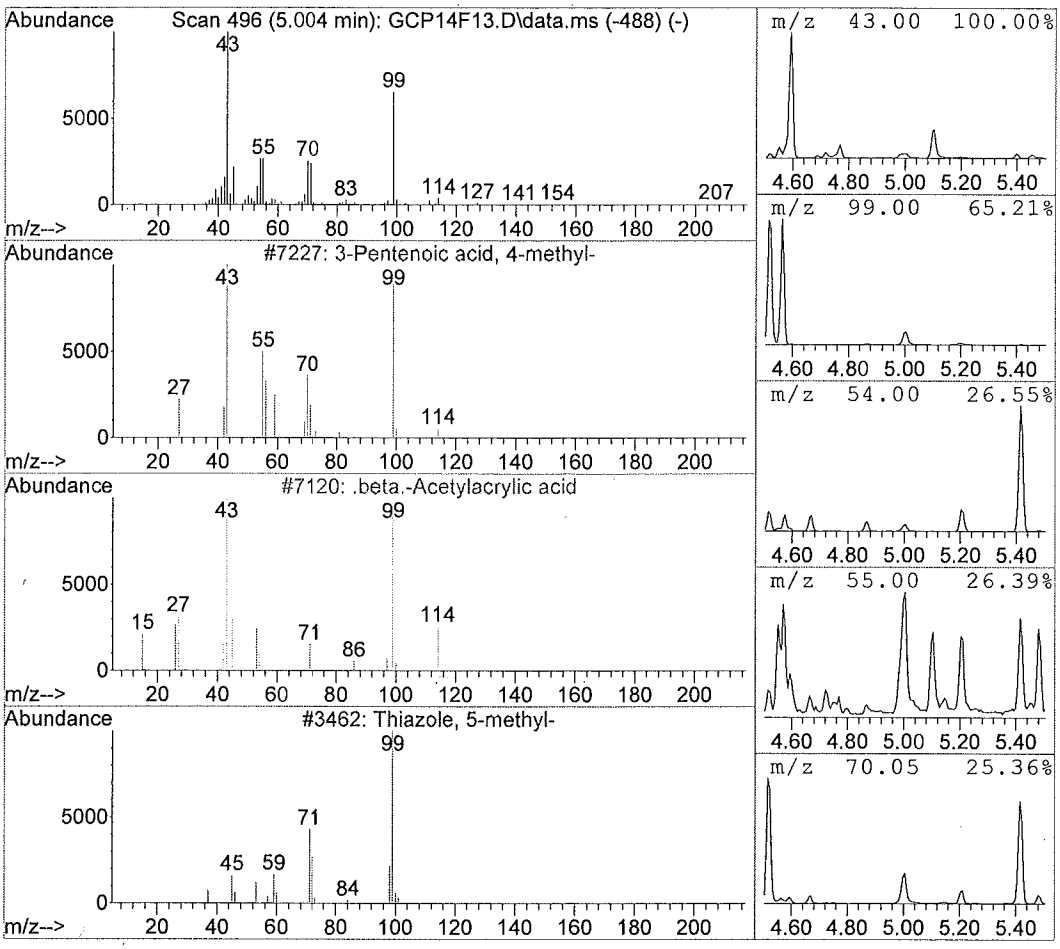
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP14F13.D Vial: 11
Acq On : 07/10/2015 17:35 Operator: TJM
Sample : 1515542013 F9M31 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
5.00	9.79 ug/ml	1221975	1,4-Dichlorobenzene-d4	2497142

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Pentenoic acid, 4-methyl-	7227	000504-85-8	38.00
2	.beta.-Acetylacrylic acid	7120	004743-82-2	37.00
3	Thiazole, 5-methyl-	3462	003581-89-3	37.00
4	Isopentyloxyethyl acetate	41618	204652-53-9	37.00
5	5H-1,4-Dioxepin, 2,3-dihydro-5-meth	7305	038653-36-0	32.00



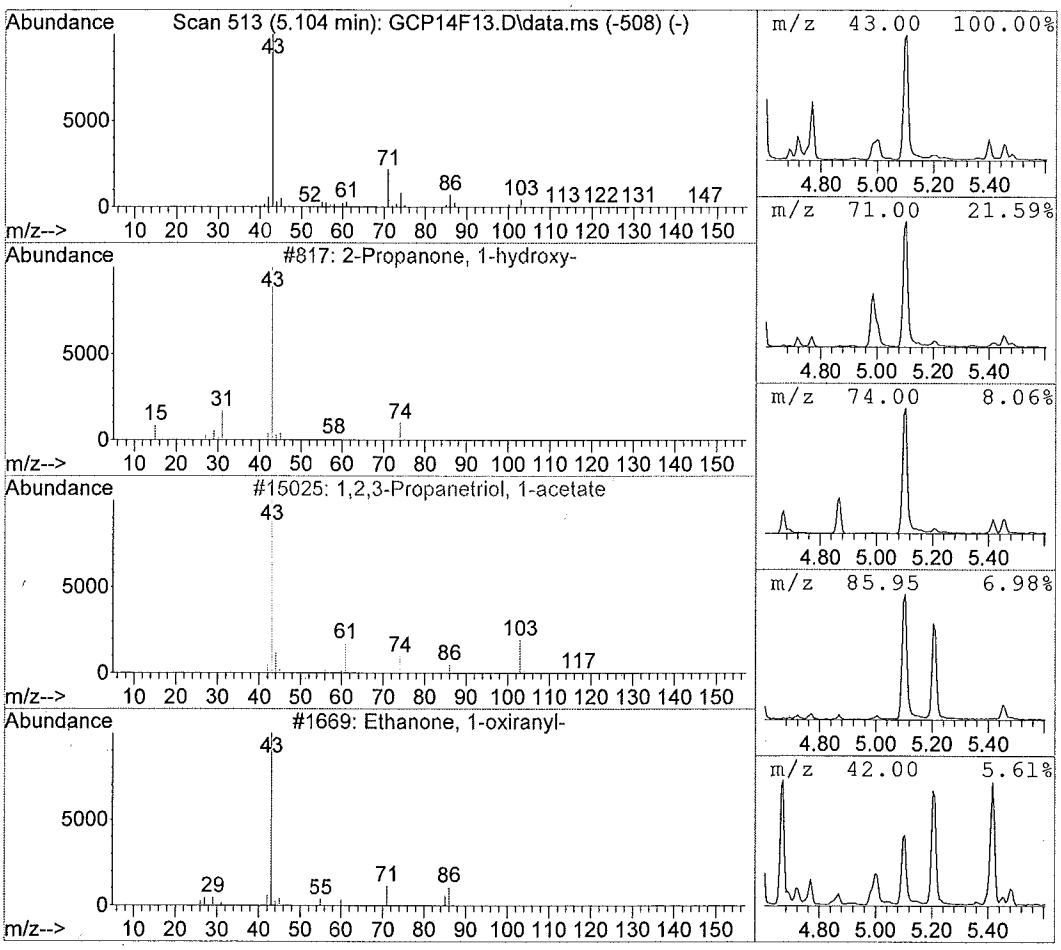
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP14F13.D Vial: 11
Acq On : 07/10/2015 17:35 Operator: TJM
Sample : 1515542013 F9M31 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
5.10	16.11 ug/ml	2011555	1,4-Dichlorobenzene-d4	2497142

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propanone, 1-hydroxy-	817	000116-09-6	22.00
2	1,2,3-Propanetriol, 1-acetate	15025	000106-61-6	17.00
3	Ethanone, 1-oxiranyl-	1669	004401-11-0	10.00
4	Butanoic acid, 3-hydroxy-, methyl e	8724	001487-49-6	10.00
5	Butanoic acid, 3-hydroxy-, methyl e	8732	053562-86-0	10.00



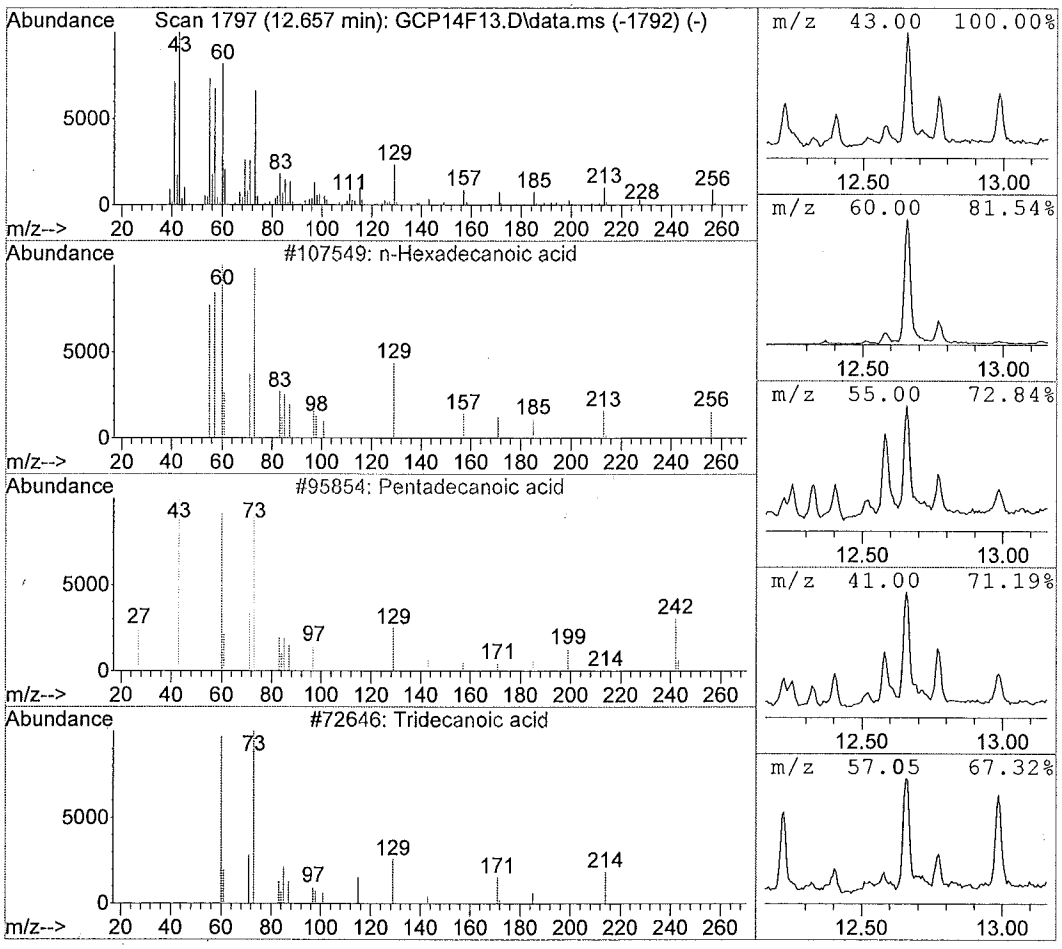
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP14F13.D Vial: 11
Acq On : 07/10/2015 17:35 Operator: TJM
Sample : 1515542013 F9M31 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	7.02 ug/ml	1018197	Phenanthrene-d10	2900601

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	n-Hexadecanoic acid	107549	000057-10-3	98.00
2	Pentadecanoic acid	95854	001002-84-2	87.00
3	Tridecanoic acid	72646	000638-53-9	72.00
4	n-Decanoic acid	39471	000334-48-5	64.00
5	Dodecanoic acid	61122	000143-07-7	30.00



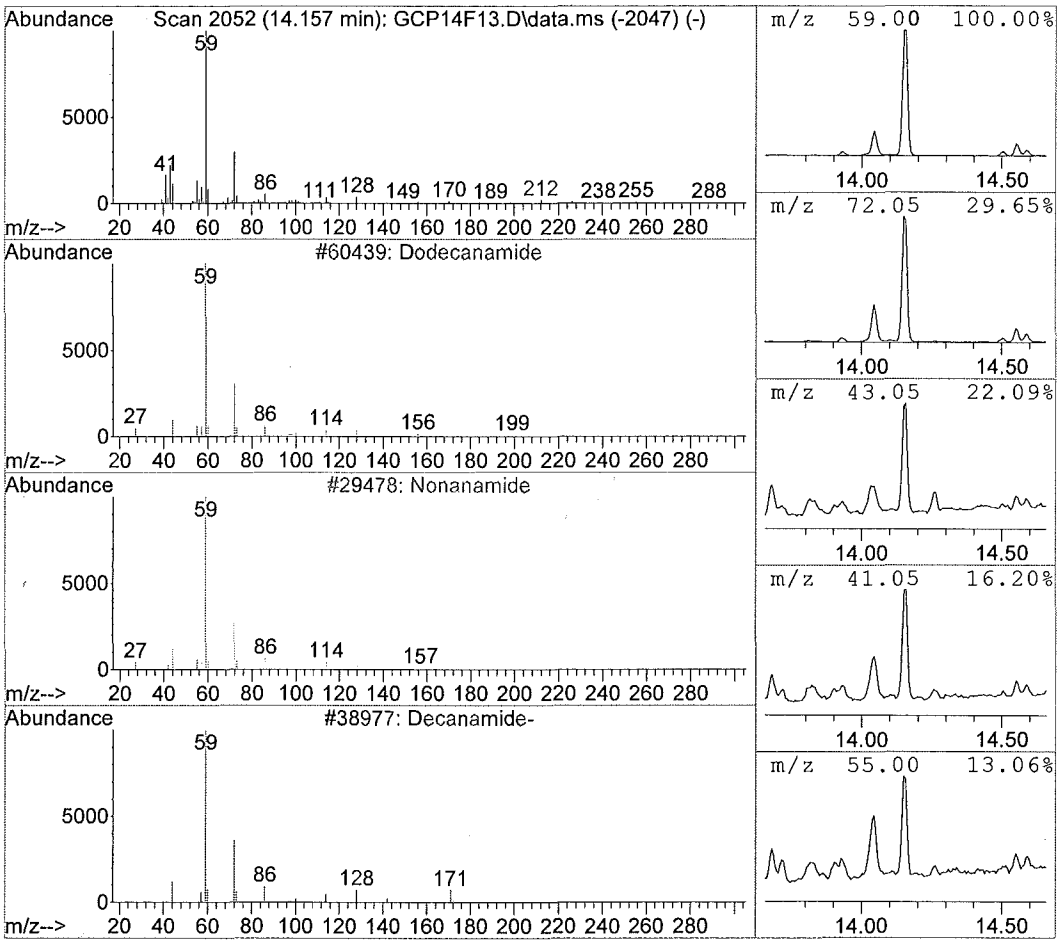
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP14F13.D Vial: 11
Acq On : 07/10/2015 17:35 Operator: TJM
Sample : 1515542013 F9M31 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
14.16	11.10 ug/ml	1663280	Chrysene-d12	2997481

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	Decanamide-	38977	002319-29-1	78.00
4	Undecanamide, 11-bromo-	112862	005875-26-3	72.00
5	Tetradecanamide	83609	000638-58-4	72.00

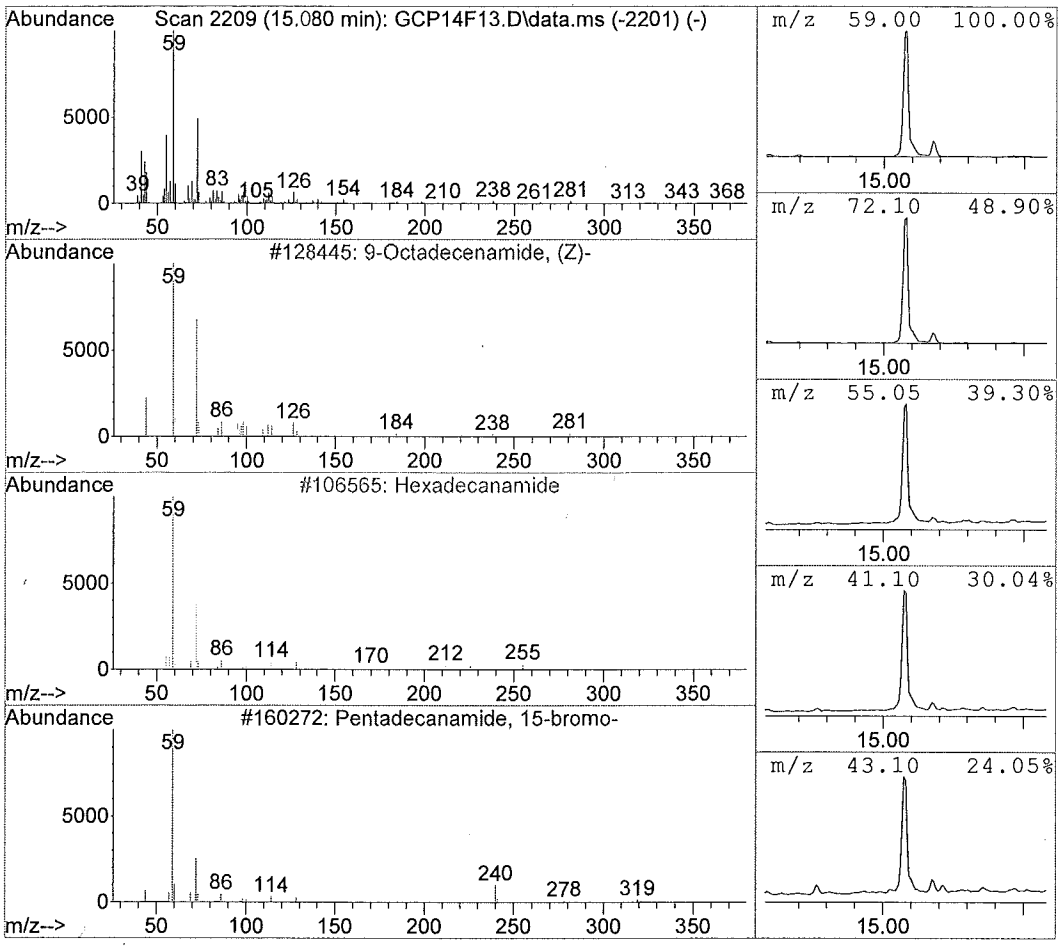


Data File : R:\G\2015\JUL15\10JUL15\GCP14F13.D Vial: 11
Acq On : 07/10/2015 17:35 Operator: TJM
Sample : 1515542013 F9M31 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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
15.08	52.50 ug/ml	7867861	Chrysene-d12	2997481

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Hexadecanamide	106565	000629-54-9	59.00
3	Pentadecanamide, 15-bromo-	160272	1000163-86-1	56.00
4	Octanamide	20317	000629-01-6	56.00
5	Dodecanamide	60439	001120-16-7	56.00



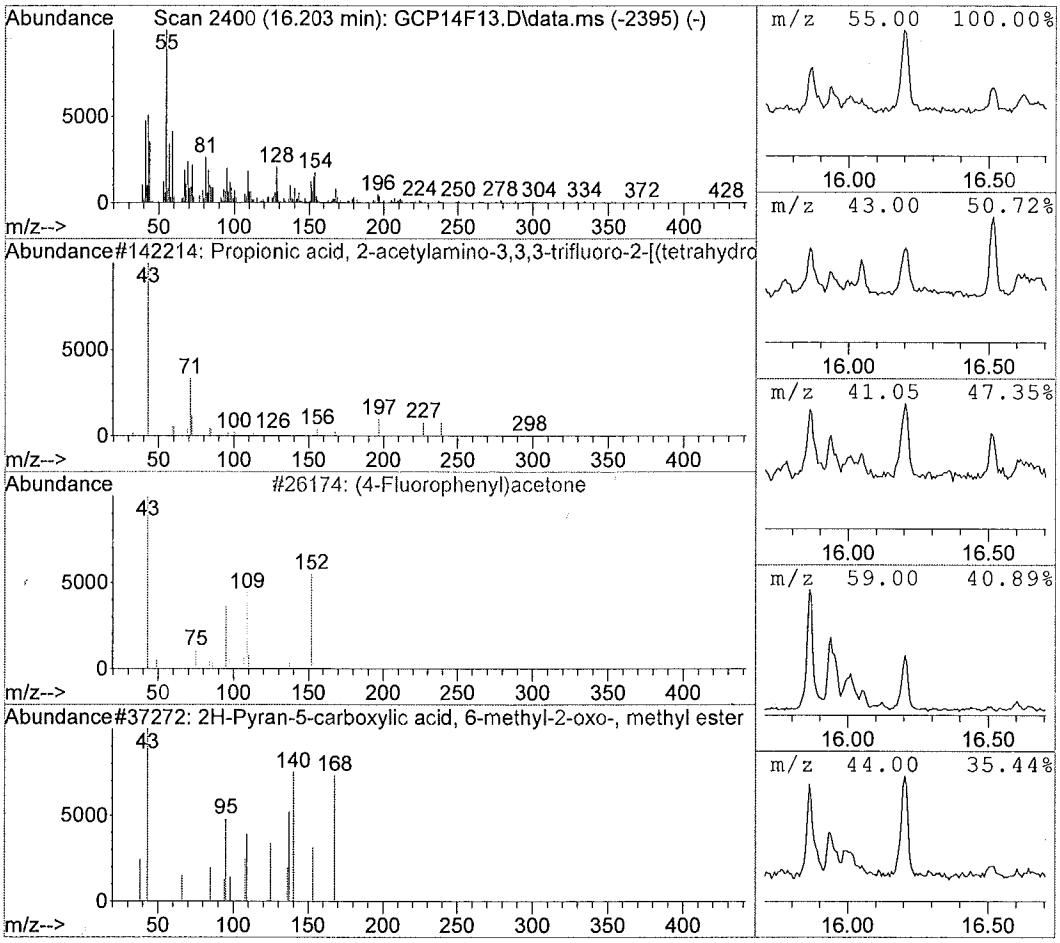
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP14F13.D Vial: 11
Acq On : 07/10/2015 17:35 Operator: TJM
Sample : 1515542013 F9M31 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	6.46 ug/ml	968823	Chrysene-d12	2997481

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propionic acid, 2-acetylamino-3,3,3	142214	1000302-56-4	11.00
2	(4-Fluorophenyl)acetone	26174	000459-03-0	10.00
3	2H-Pyran-5-carboxylic acid, 6-methy	37272	000669-40-9	10.00
4	Cyclohexanecarboxamide	11821	001122-56-1	10.00
5	6,7-Dioxabicyclo[3.2.2]nonane	12239	000283-35-2	10.00



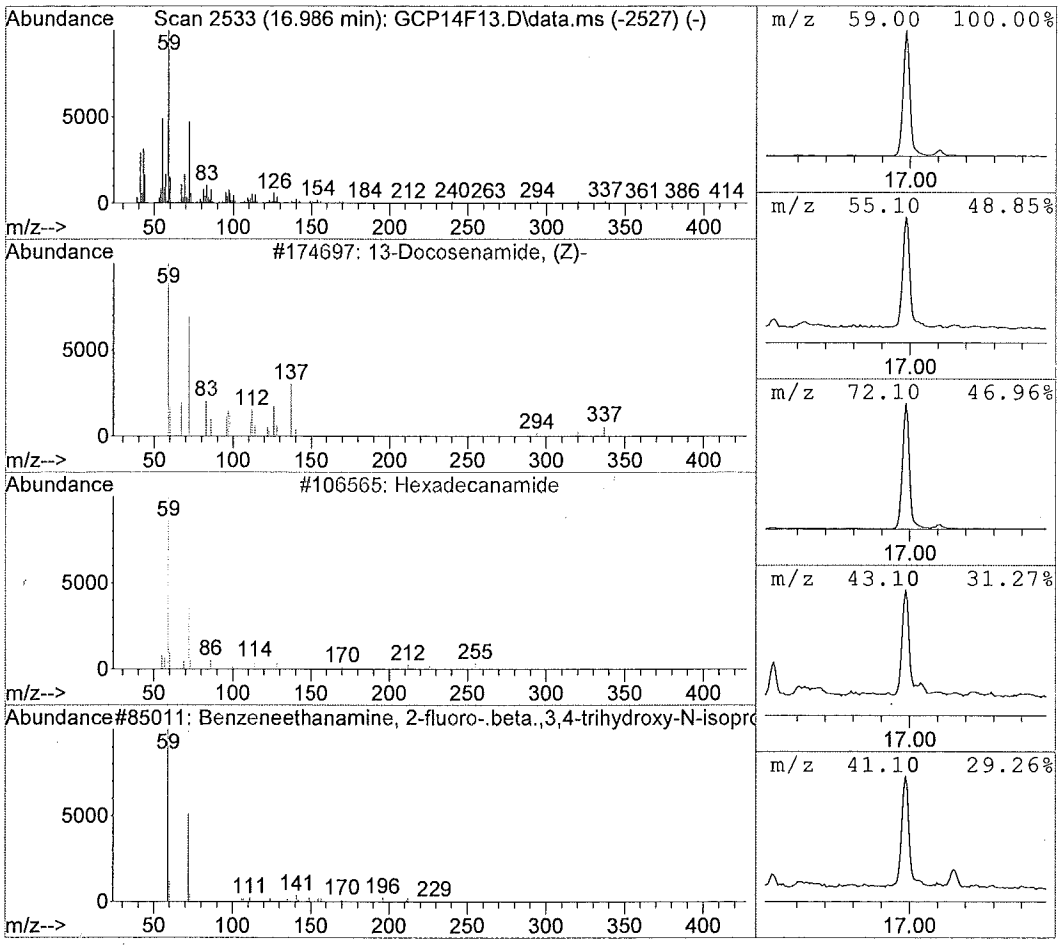
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP14F13.D Vial: 11
Acq On : 07/10/2015 17:35 Operator: TJM
Sample : 1515542013 F9M31 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
16.99	50.49 ug/ml	5145299	Perylene-d12	2037955

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Docosenamide, (Z)-	174697	000112-84-5	70.00
2	Hexadecanamide	106565	000629-54-9	64.00
3	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	59.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	59.00
5	Tetradecanamide	83608	000638-58-4	56.00



: 00345

Library Search Compound Report

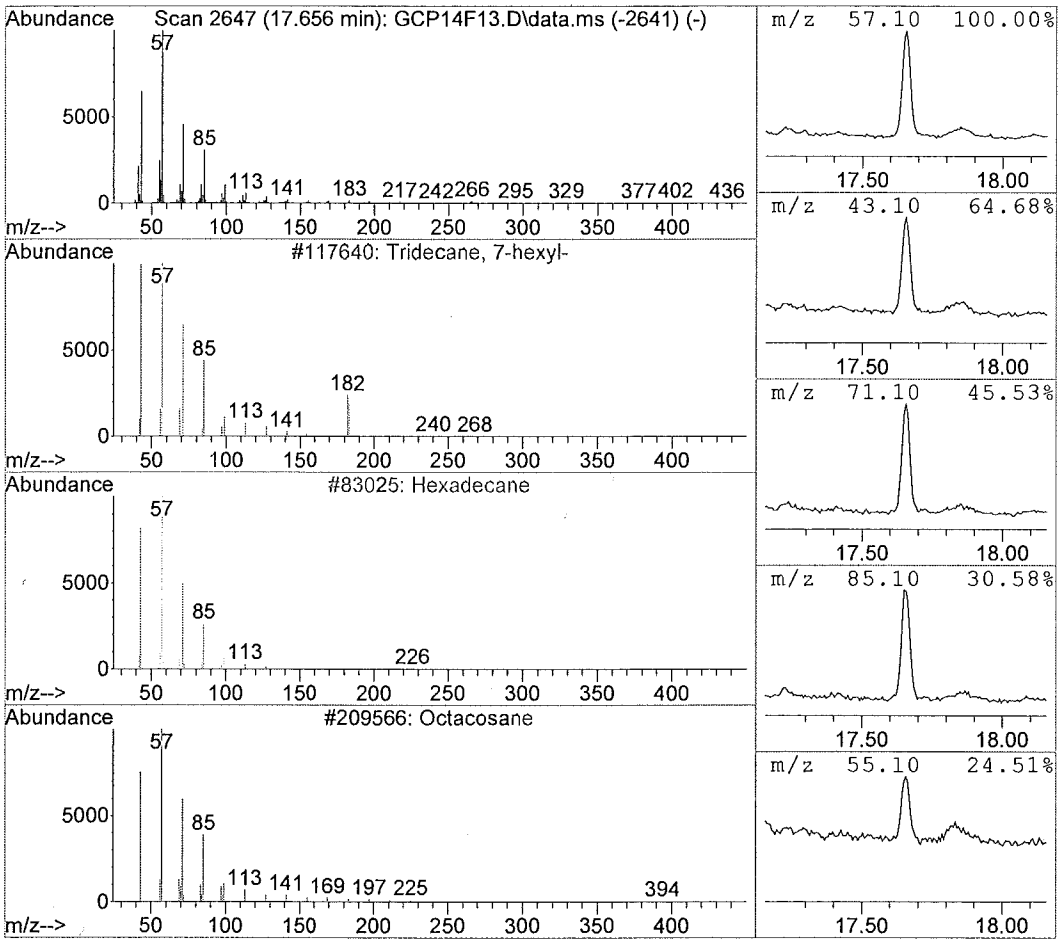
Data File : R:\G\2015\JUL15\10JUL15\GCP14F13.D Vial: 11
Acq On : 07/10/2015 17:35 Operator: TJM
Sample : 1515542013 F9M31 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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	12.83 ug/ml	1307221	Perylene-d12	2037955

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tridecane, 7-hexyl-	117640	007225-66-3	95.00
2	Hexadecane	83025	000544-76-3	91.00
3	Octacosane	209566	000630-02-4	87.00
4	Hentriacontane	223851	000630-04-6	81.00
5	Tridecane, 6-propyl-	83030	055045-10-8	81.00

BA



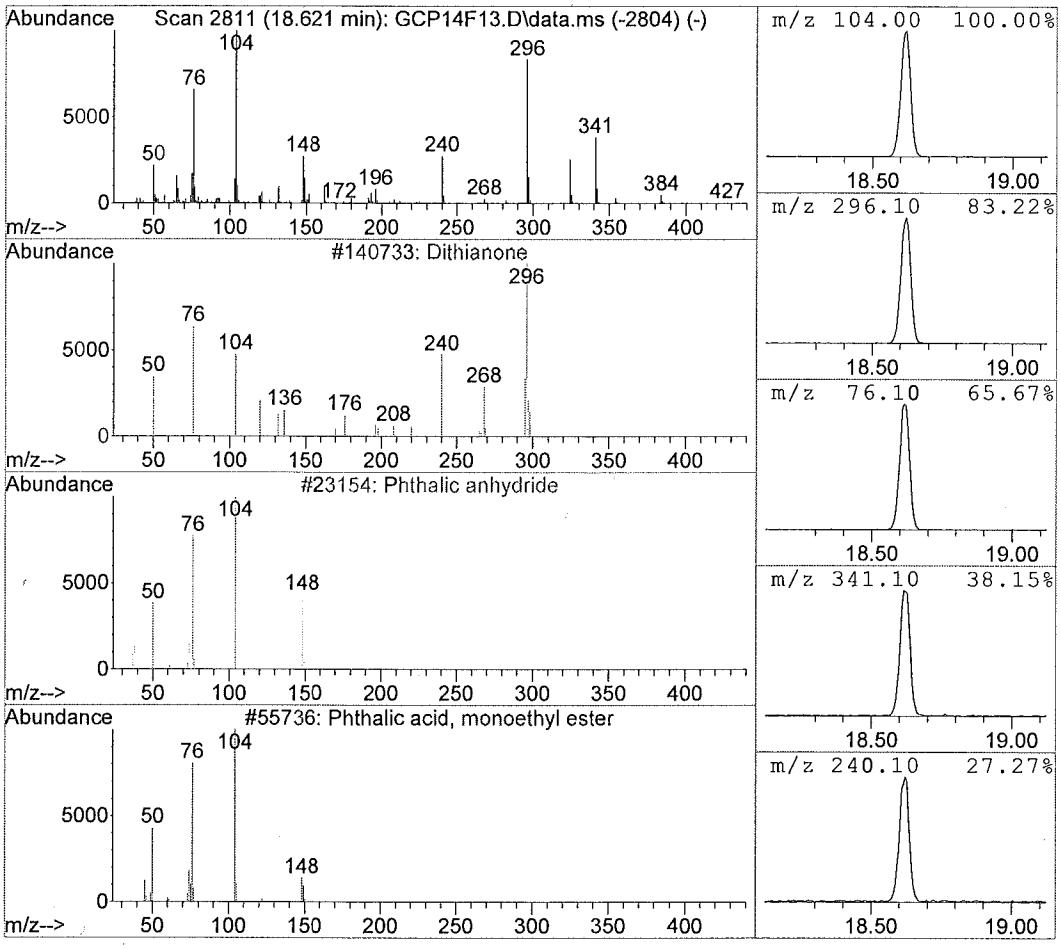
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP14F13.D Vial: 11
Acq On : 07/10/2015 17:35 Operator: TJM
Sample : 1515542013 F9M31 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	23.26 ug/ml	2370110	Perylene-d12	2037955

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dithianone	140733	003347-22-6	35.00
2	Phthalic anhydride	23154	000085-44-9	27.00
3	Phthalic acid, monoethyl ester	55736	002306-33-4	16.00
4	Isoindole-5-carboxylic acid, 1,3-di	140866	333340-81-1	15.00
5	2-Thiazolamine, 4-(4-methoxyphenyl)	141016	1000319-57-2	14.00



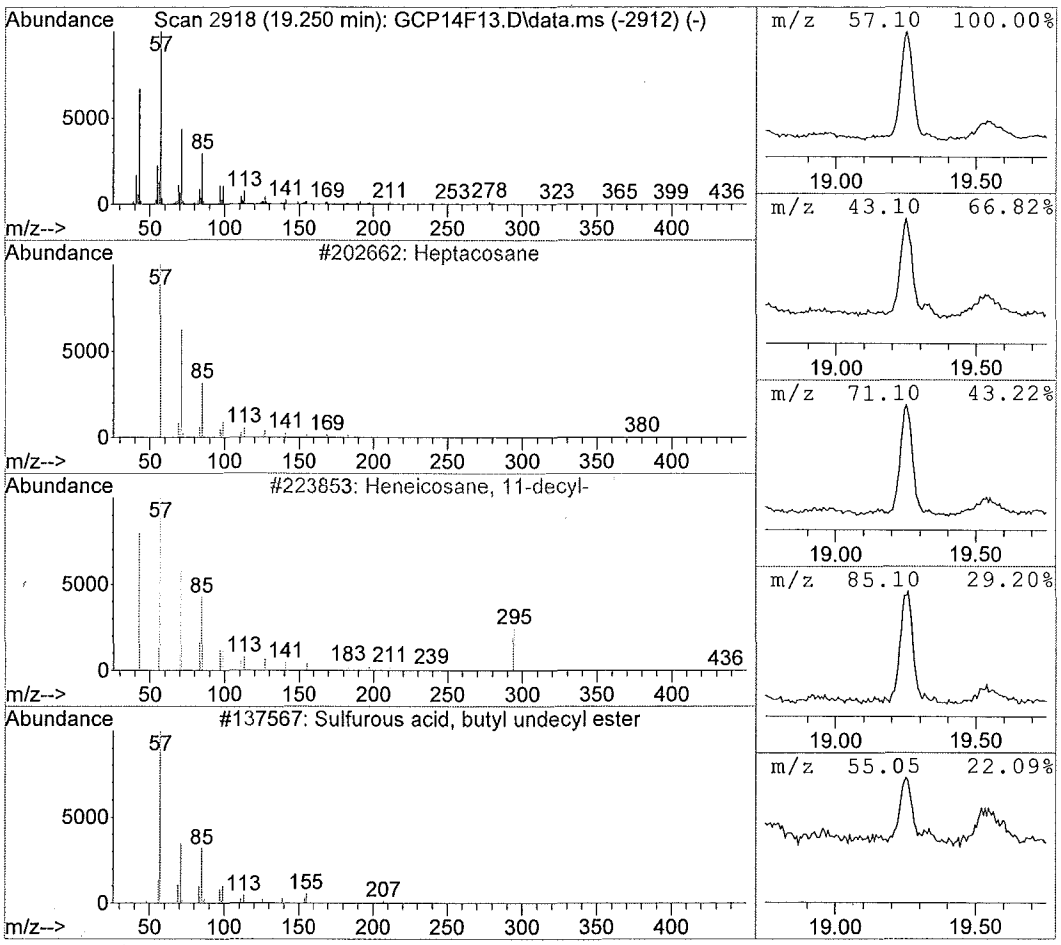
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP14F13.D Vial: 11
Acq On : 07/10/2015 17:35 Operator: TJM
Sample : 1515542013 F9M31 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
19.25	10.99 ug/ml	1119618	Perylene-d12	2037955

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptacosane	202662	000593-49-7	98.00
2	Heneicosane, 11-decyl- SCA	223853	055320-06-4	91.00
3	Sulfurous acid, butyl undecyl ester	137567	1000309-17-8	86.00
4	Hexacosane	194493	000630-01-3	83.00
5	Dodecane, 4,9-dipropyl-	105901	003054-63-5	81.00



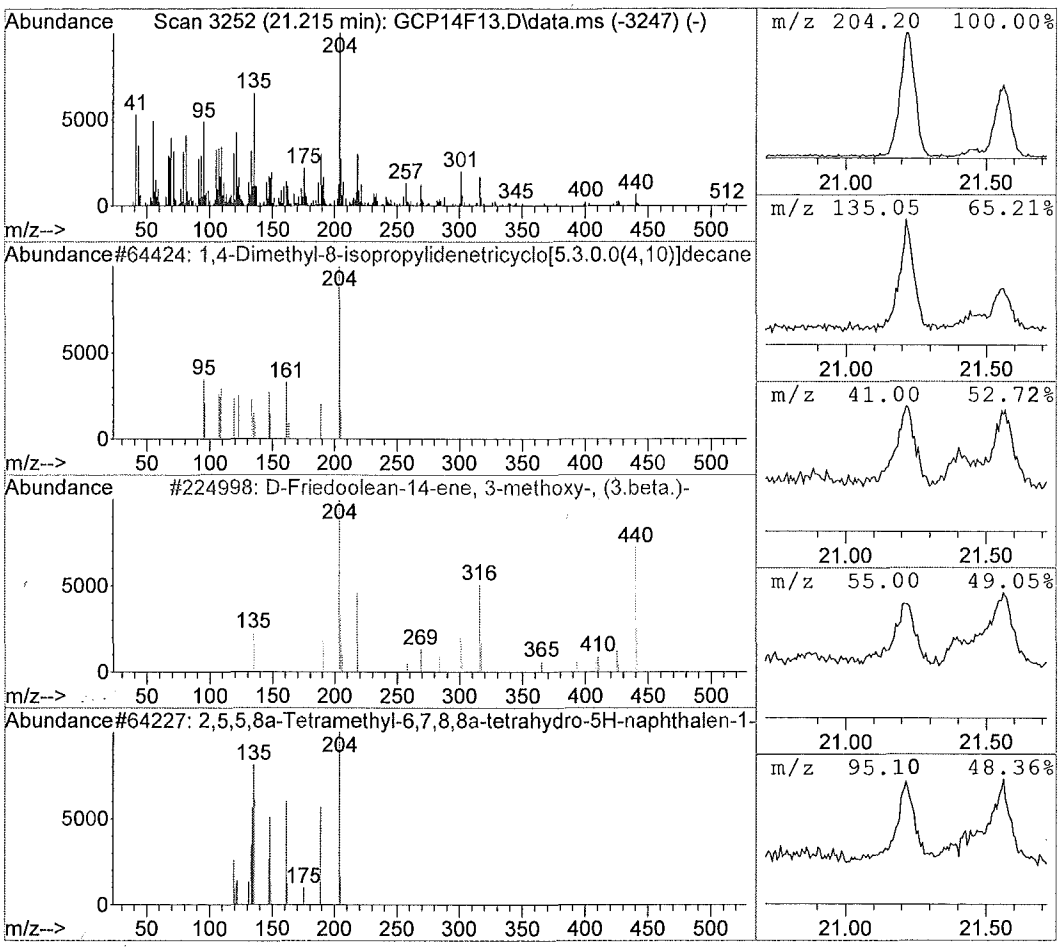
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP14F13.D Vial: 11
Acq On : 07/10/2015 17:35 Operator: TJM
Sample : 1515542013 F9M31 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
21.21	18.29 ug/ml	1864051	Perylene-d12	2037955

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,4-Dimethyl-8-isopropylidenetricyc	64424	1000140-07-7	53.00
2	D-Friedoolean-14-ene, 3-methoxy-, (	224998	014021-23-9	46.00
3	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	43.00
4	Naphthalene, decahydro-4a-methyl-1-	64525	017066-67-0	35.00
5	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	64569	000489-40-7	30.00



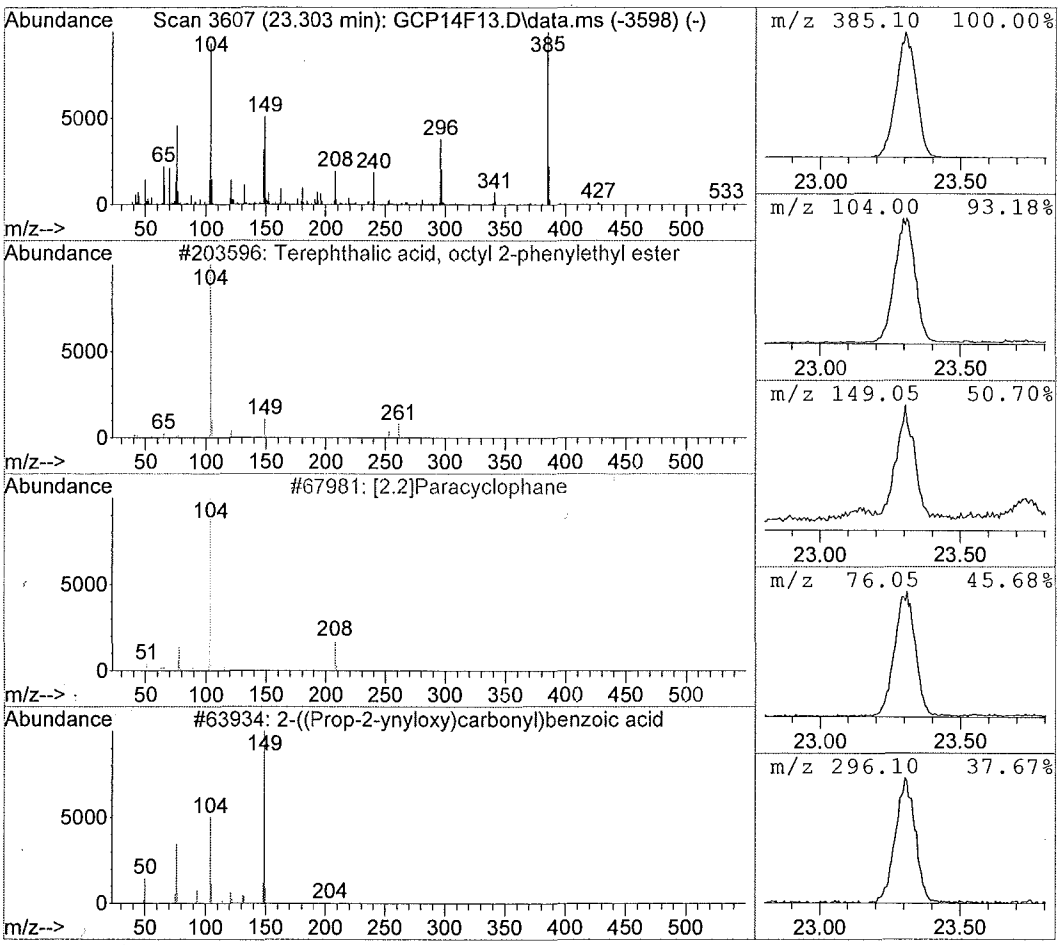
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP14F13.D Vial: 11
Acq On : 07/10/2015 17:35 Operator: TJM
Sample : 1515542013 F9M31 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
23.30	17.28 ug/ml	1761161	Perylene-d12	2037955

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Terephthalic acid, octyl 2-phenylet	203596	1000323-78-2	22.00
2	[2.2]Paracyclophane	67981	001633-22-3	18.00
3	2-((Prop-2-ynyloxy)carbonyl)benzoic	63934	1000373-53-6	12.00
4	Butanedioic acid, 2,3-dihydroxy-, d	66422	013811-71-7	12.00
5	Naphthalene, 1,2,3,4-tetrahydro-2-p	68010	029422-13-7	11.00



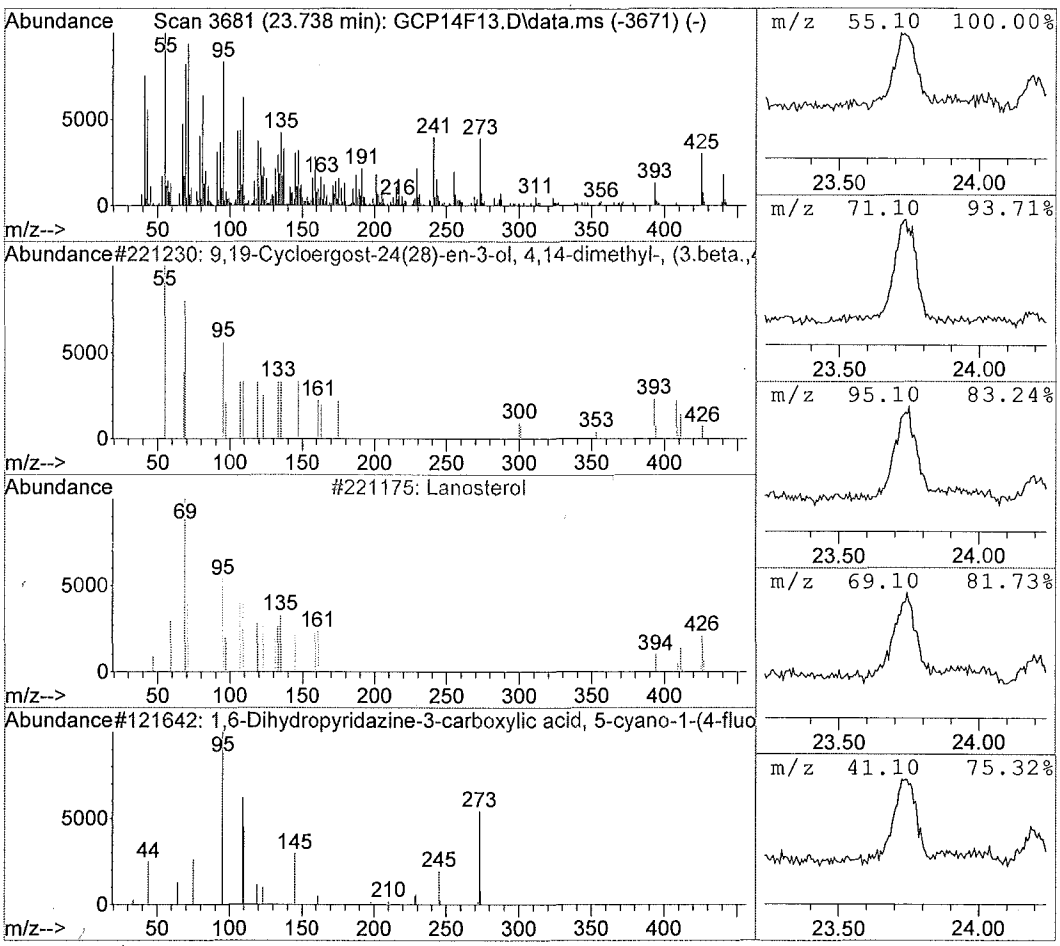
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP14F13.D Vial: 11
Acq On : 07/10/2015 17:35 Operator: TJM
Sample : 1515542013 F9M31 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
23.74	19.14 ug/ml	1950253	Perylene-d12	2037955

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9,19-Cycloergost-24(28)-en-3-ol, 4,	221230	000469-39-6	41.00
2	Lanosterol	221175	000079-63-0	25.00
3	1,6-Dihydropyridazine-3-carboxylic	121642	1000304-05-0	12.00
4	9,19-Cyclolanost-24-en-3-ol, acetat	230831	001259-10-5	12.00
5	4-Ethyl-2-hexynal	10486	071932-97-3	9.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M32

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GCP15F14

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

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

GPC Cleanup: (Y/N) Y pH: 7.9 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.

F9M32

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GCP15F14

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

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

GPC Cleanup: (Y/N) Y pH: 7.9 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	27.	J
129-00-0	Pyrene	34.	J
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	22.	J
218-01-9	Chrysene	38.	J
117-81-7	Bis(2-ethylhexyl)phthalate	200	U
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	40.	J
207-08-9	Benzo(k)fluoranthene	200	U
50-32-8	Benzo(a)pyrene	17.	J
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.

F9M32

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GCP15F14

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

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 1.0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 1,2-Ethanediol	2.36	390	J
02		Unknown 2-Pentanone, 4-hydroxy-	3.30	680	JB
03		Unknown Guanidine	3.52	16000	J
04		Unknown TATP	4.07	360	J
05		Unknown 1H-Pyrrole-2,5-dione	4.27	700	J
06		Unknown Pentanal, 2-methyl-	5.10	270	J
07	638-58-4	Tetradecanamide	12.77	140	JN
08	65078-60-6	4-O-Methylphenylhydrazono-3-methyl-2-pyrazolin-5	13.00	130	JN
09		Unknown Dodecanamide	14.16	460	J
10	301-02-0	9-Octadecenamide, (Z)-	15.08	2500	JNB
11	1120-16-7	Dodecanamide	15.17	130	JN
12		Unknown 7-Nonenamide	15.87	190	J
13		Unknown 9-Octadecenamide	16.20	220	J
14	112-84-5	13-Docosenamide, (Z)-	16.99	1200	JN
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	1400	J

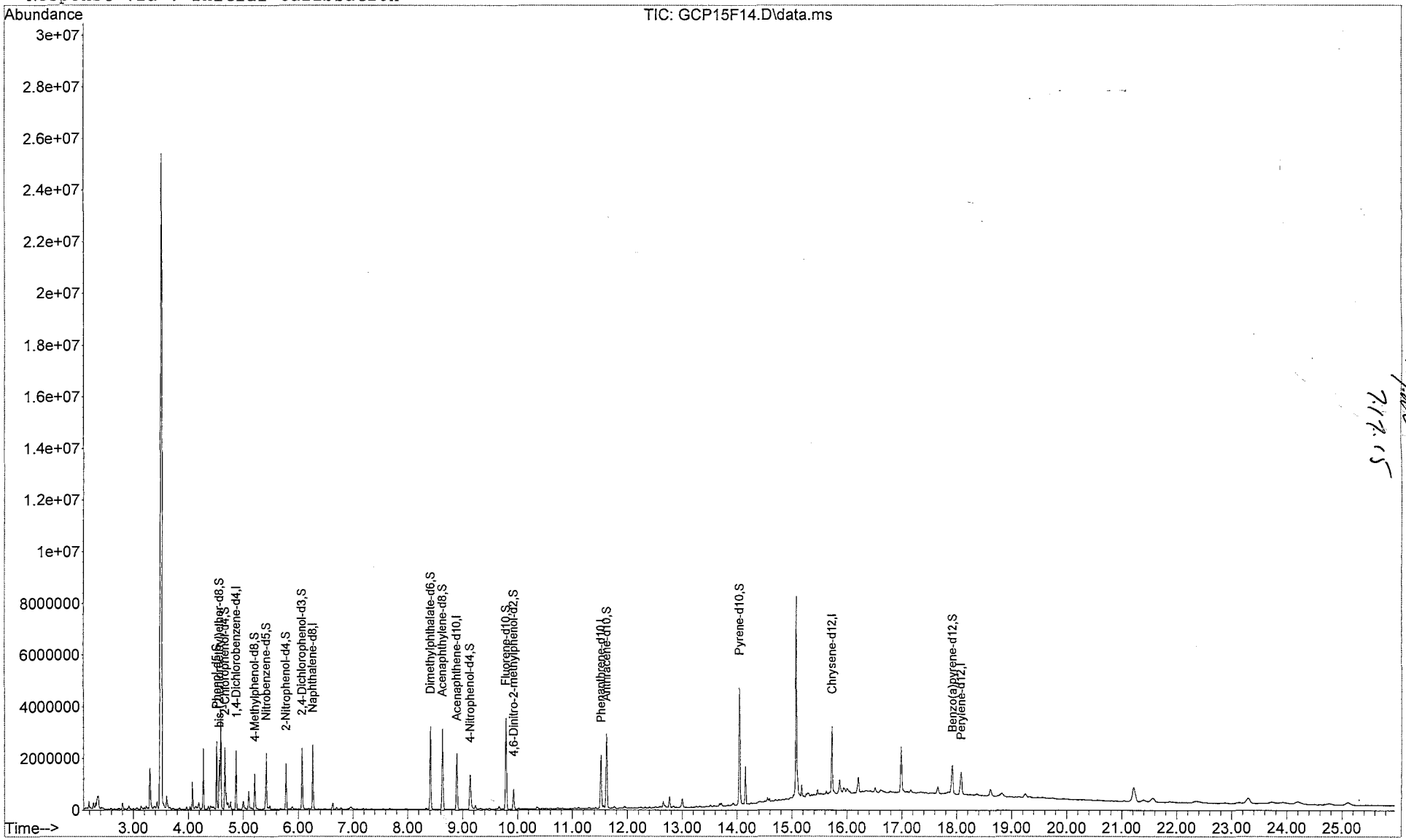
[2] EPA-designated Registry Number.

Quantitation Report

Data File : R:\G\2015\JUL15\10JUL15\GCP15F14.D Vial: 12
Acq On : 07/10/2015 18:07 Operator: TJM
Sample : 1515542014 F9M32 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jul 17 08:50:04 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



7/17/15

Quantitation Report

Data File : R:\G\2015\JUL15\10JUL15\GCP15F14.D Vial: 12
Acq On : 07/10/2015 18:07 Operator: TJM
Sample : 1515542014 F9M32 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 17 08:50:04 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	308974	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1149237	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	667942	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1118112	20.00 ug/ml
73) Chrysene-d12	15.73	240	1061445	20.00 ug/ml
81) Perylene-d12	18.08	264	608420	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.52	99	712724	26.508ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	414418	19.778ug/mL
7) 2-Chlorophenol-d4	4.66	132	542899	23.914ug/ml
13) 4-Methylphenol-d8	5.20	113	268431	14.926ug/mL
17) Nitrobenzene-d5	5.42	128	235647	23.341ug/ml
21) 2-Nitrophenol-d4	5.77	143	260716	24.432ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	490782	29.536ug/mL
28) 4-Chloroaniline-d4	6.35	131	6389	0.352ug/mL
42) Dimethylphthalate-d6	8.42	166	1521157	36.318ug/mL
45) Acenaphthylene-d8	8.63	160	1826121	32.082ug/mL
50) 4-Nitrophenol-d4	9.14	143	293478	34.347ug/mL
57) Fluorene-d10	9.79	176	1289666	36.055ug/mL
61) 4,6-Dinitro-2-methylphenol	9.93	200	120990	15.245ug/mL
69) Anthracene-d10	11.62	188	1722304	29.047ug/mL
75) Pyrene-d10	14.04	212	1976734	37.317ug/mL
86) Benzo(a)pyrene-d12	17.92	264	762294	26.147ug/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\10JUL15\GCP15F14.D Vial: 12
Acq On : 07/10/2015 18:07 Operator: TJM
Sample : 1515542014 F9M32 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 17 08:50:04 2015 Results File: GSOM01D6.RES

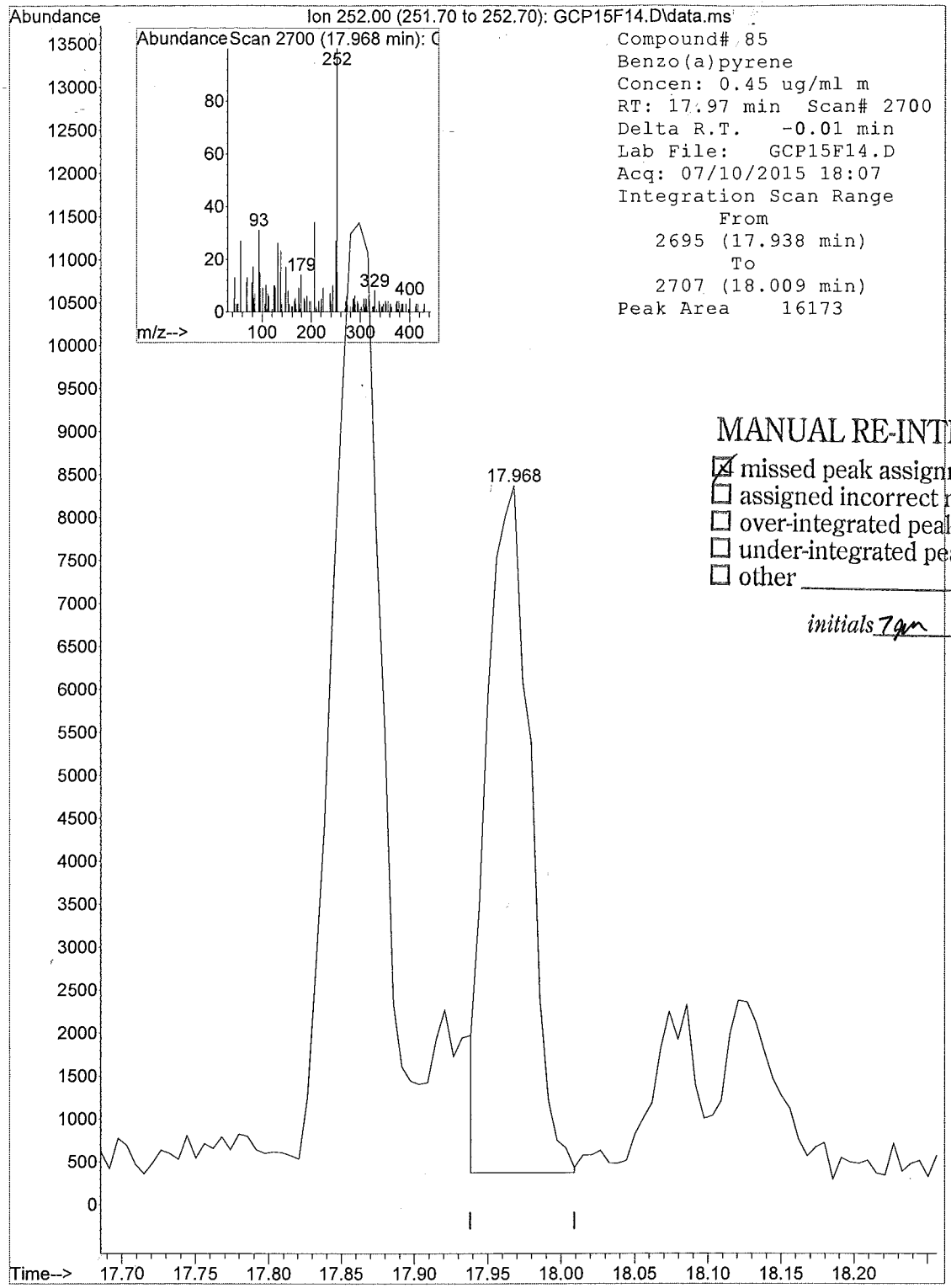
Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration

	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	13.72	202	46196	0.703ug/ml	94
74)	Pyrene	14.07	202	59994	0.888ug/ml	19
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	15.72	228	36406	0.565ug/ml	87
79)	Chrysene	15.76	228	57624	0.991ug/ml	94
80)	Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	17.34	252	39473	1.036ug/ml	85
84)	Benzo(k)fluoranthene	0.00	252		Not Detected	
85)	Benzo(a)pyrene	17.97	252	16173	0.451ug/ml m	97
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)

00357

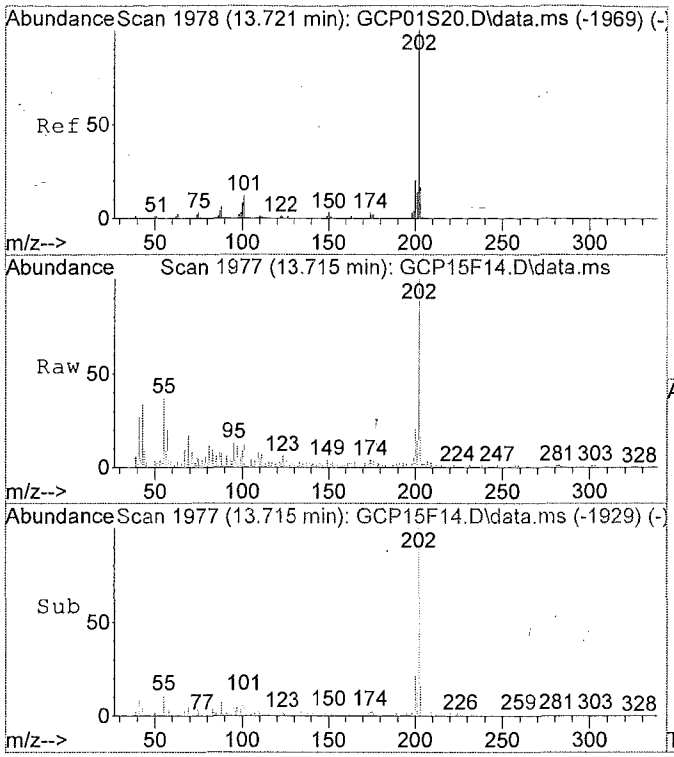
MANUAL INTEGRATION FOR Benzo(a)pyrene



MANUAL RE-INTEGRATION

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

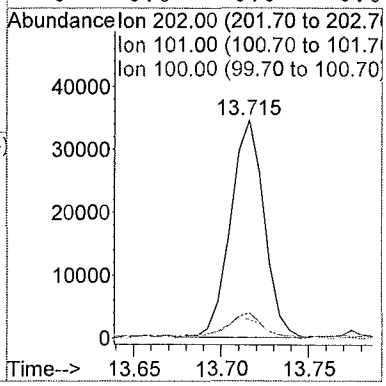
initials TJM *date* 7.17.15

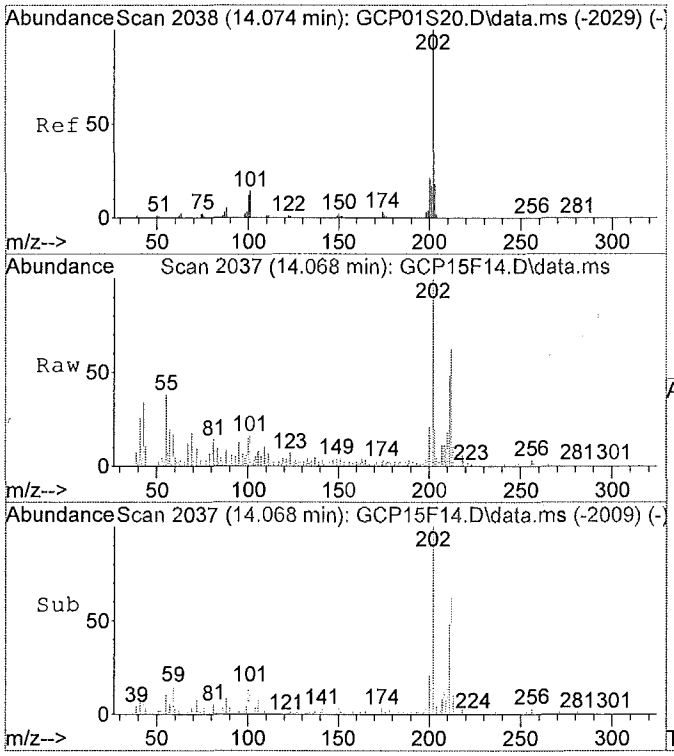


#72
Fluoranthene
Concen: 0.70 ug/ml
RT: 13.72 min Scan# 1977
Delta R.T. -0.01 min
Lab File: GCP15F14.D
Acq: 07/10/2015 18:07

Tgt Ion:202 Resp: 46196

Ion	Ratio	Lower	Upper
202	100		
101	11.3	10.5	19.5
100	11.6	7.4	13.8
0	0.0	0.0	0.0

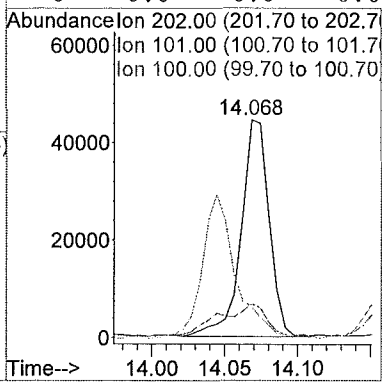


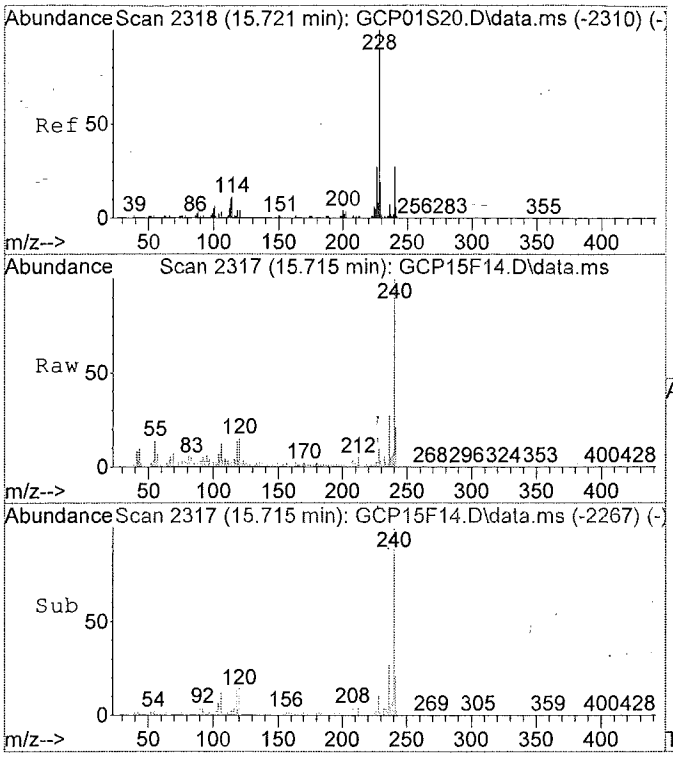


#74
Pyrene
Concen: 0.89 ug/ml
RT: 14.07 min Scan# 2037
Delta R.T. -0.01 min
Lab File: GCP15F14.D
Acq: 07/10/2015 18:07

Tgt Ion:202 Resp: 59994

Ion	Ratio	Lower	Upper
202	100		
101	25.8	12.2	22.7#
100	78.4	10.1	18.7#
0	0.0	0.0	0.0

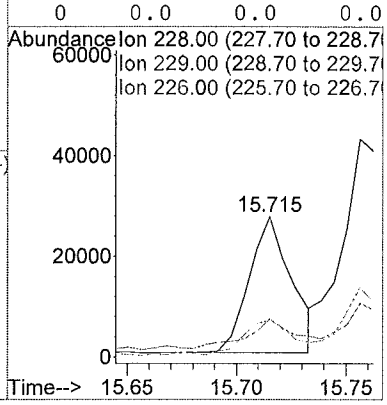


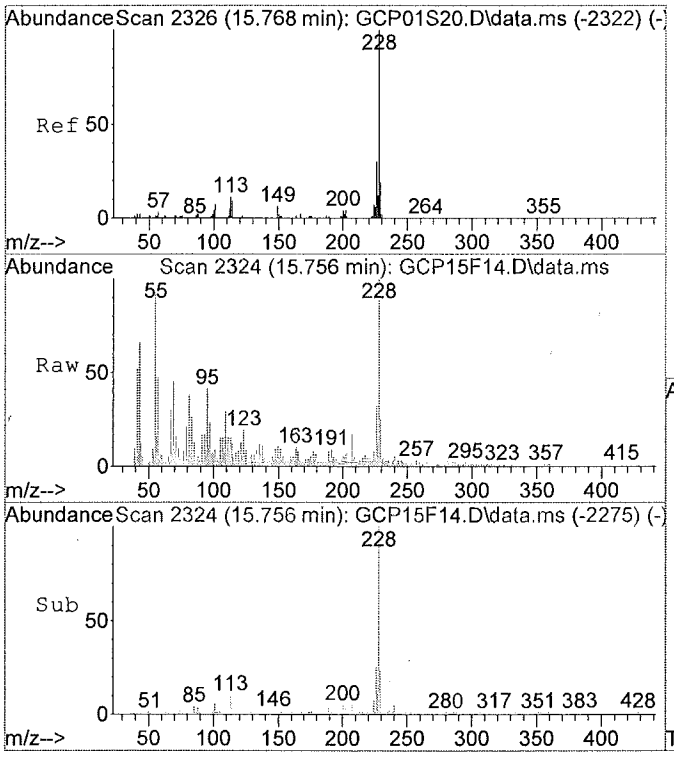


#78
Benzo(a)anthracene
Concen: 0.57 ug/ml
RT: 15.72 min Scan# 2317
Delta R.T. -0.01 min
Lab File: GCP15F14.D
Acq: 07/10/2015 18:07

Tgt Ion:228 Resp: 36406

Ion	Ratio	Lower	Upper
228	100		
229	30.3	13.7	25.5#
226	28.9	18.2	33.8
0	0.0	0.0	0.0

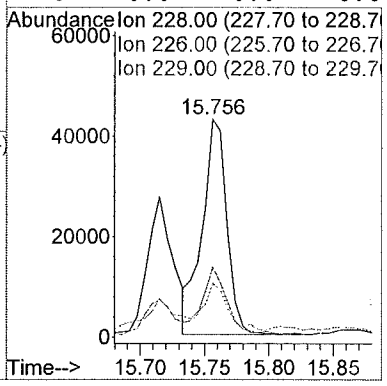


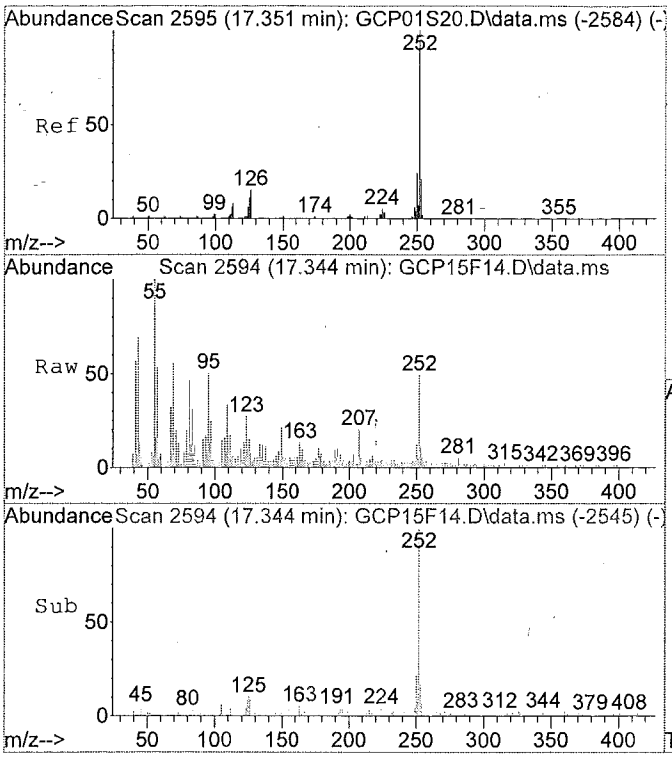


#79
Chrysene
Concen: 0.99 ug/ml
RT: 15.76 min Scan# 2324
Delta R.T. -0.01 min
Lab File: GCP15F14.D
Acq: 07/10/2015 18:07

Tgt Ion:228 Resp: 57624

Ion	Ratio	Lower	Upper
228	100		
226	32.1	20.1	37.3
229	21.7	13.7	25.5
0	0.0	0.0	0.0

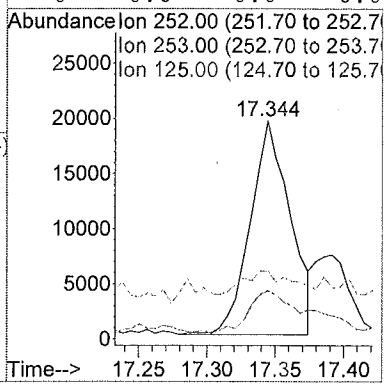


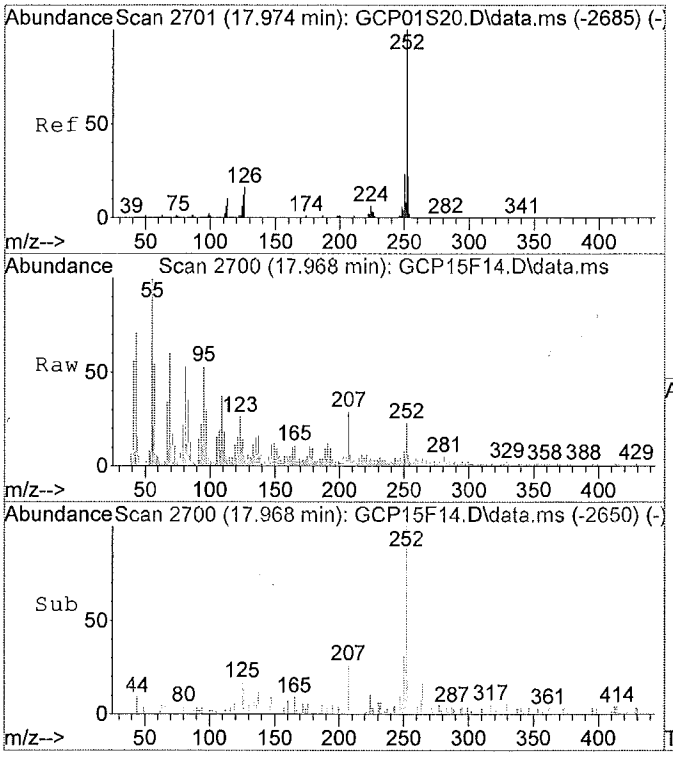


#83
Benzo(b)fluoranthene
Concen: 1.04 ug/ml
RT: 17.34 min Scan# 2594
Delta R.T. -0.01 min
Lab File: GCP15F14.D
Acq: 07/10/2015 18:07

Tgt Ion:252 Resp: 39473

Ion	Ratio	Lower	Upper
252	100		
253	31.7	15.1	28.1#
125	13.0	10.6	19.8
0	0.0	0.0	0.0

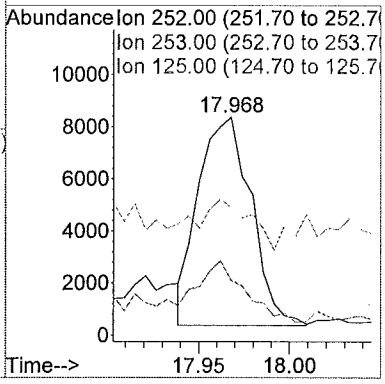




#85
Benzo(a)pyrene
Concen: 0.45 ug/ml m
RT: 17.97 min Scan# 2700
Delta R.T. -0.01 min
Lab File: GCP15F14.D
Acq: 07/10/2015 18:07

Tgt Ion:252 Resp: 16173

Ion	Ratio	Lower	Upper
252	100		
253	35.3	15.2	28.2#
125	31.5	11.8	21.8#
0	0.0	0.0	0.0



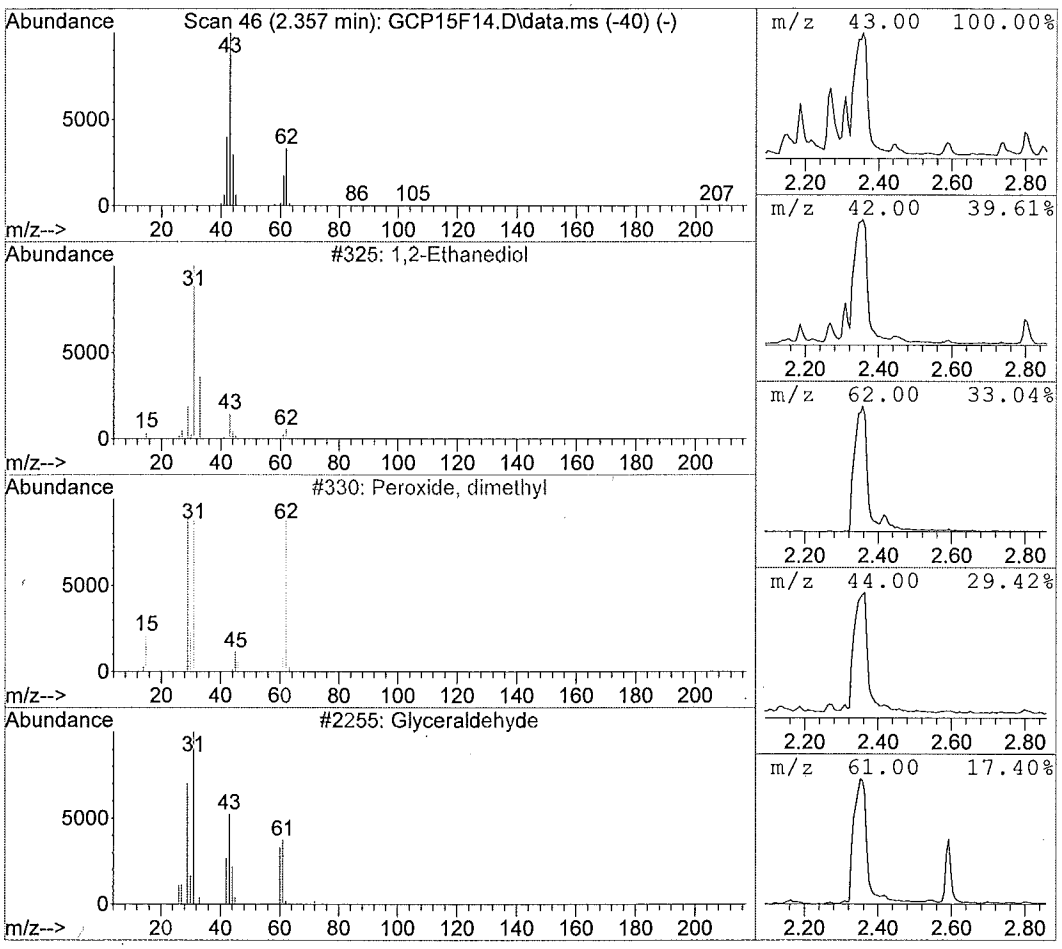
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP15F14.D Vial: 12
Acq On : 07/10/2015 18:07 Operator: TJM
Sample : 1515542014 F9M32 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
2.36	10.15 ug/ml	1167103	1,4-Dichlorobenzene-d4	2300384

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2-Ethanediol	325	000107-21-1	9.00
2	Peroxide, dimethyl	330	000690-02-8	7.00
3	Glyceraldehyde	2255	000056-82-6	4.00
4	Monoethanolamine	306	000141-43-5	3.00
5	Acetic acid, anhydride with formic	1955	002258-42-6	2.00



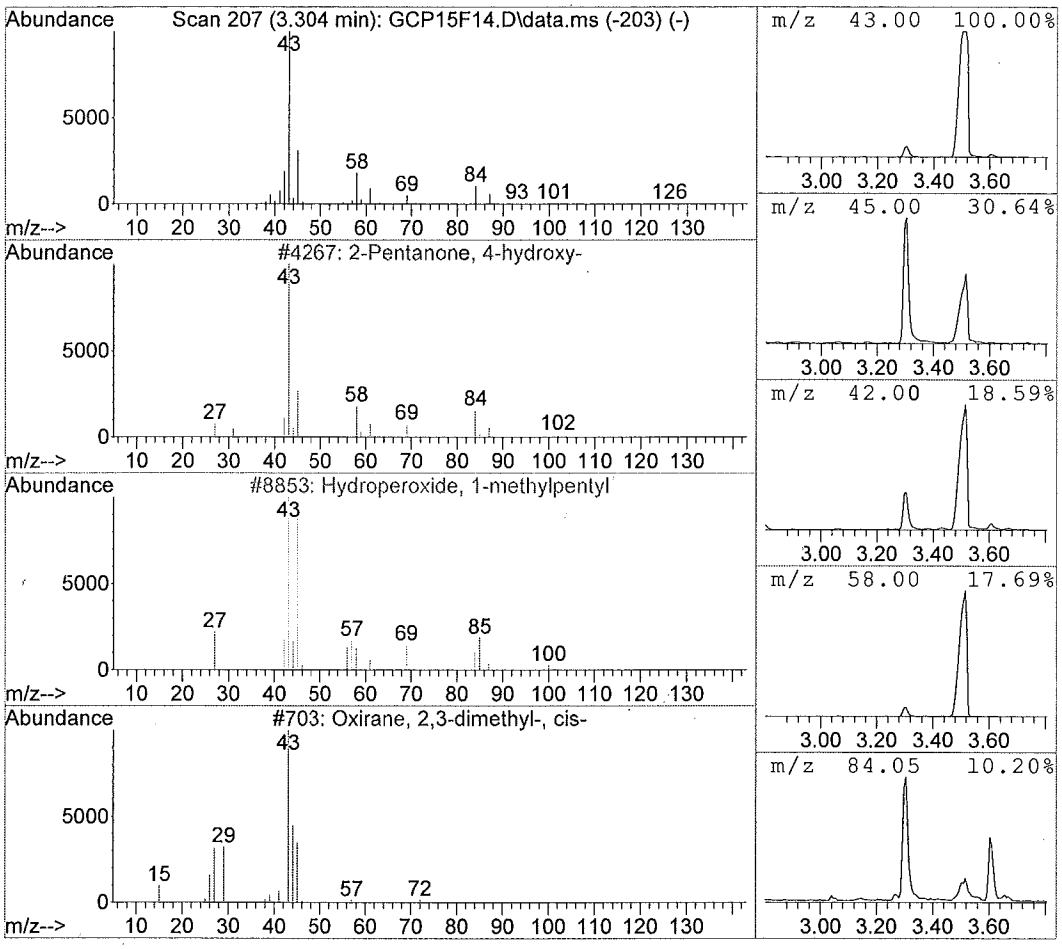
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP15F14.D Vial: 12
Acq On : 07/10/2015 18:07 Operator: TJM
Sample : 1515542014 F9M32 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	17.75 ug/ml	2041433	1,4-Dichlorobenzene-d4	2300384

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	39.00
2	Hydroperoxide, 1-methylpentyl	8853	024254-55-5	33.00
3	Oxirane, 2,3-dimethyl-, cis-	703	001758-33-4	17.00
4	Acetone	213	000067-64-1	9.00
5	Isopropyl acetate	4253	000108-21-4	9.00



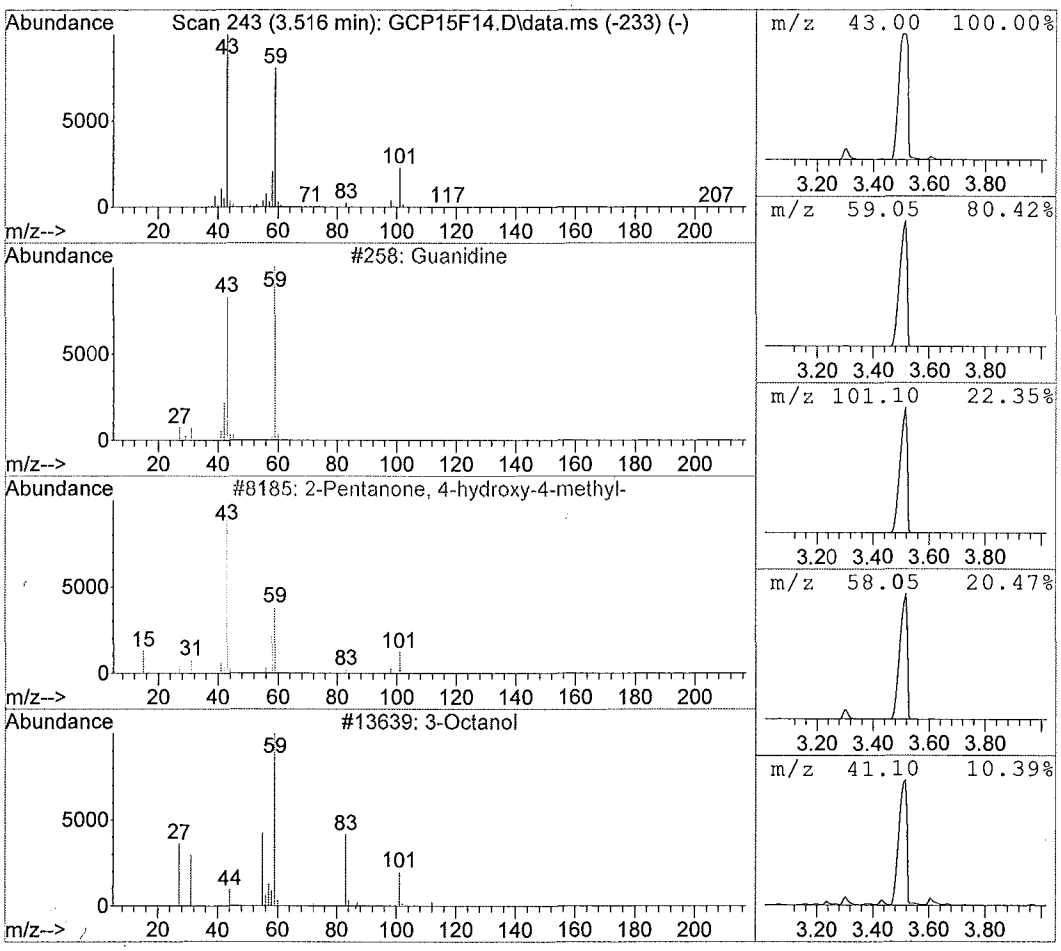
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP15F14.D Vial: 12
Acq On : 07/10/2015 18:07 Operator: TJM
Sample : 1515542014 F9M32 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
3.52	419.72 ug/ml	48275896	1,4-Dichlorobenzene-d4	2300384

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Guanidine	258	000113-00-8	52.00
2	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	50.00
3	3-Octanol	13639	000589-98-0	36.00
4	2-Hexanol, 2-methyl-	8346	000625-23-0	36.00
5	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00



Library Search Compound Report

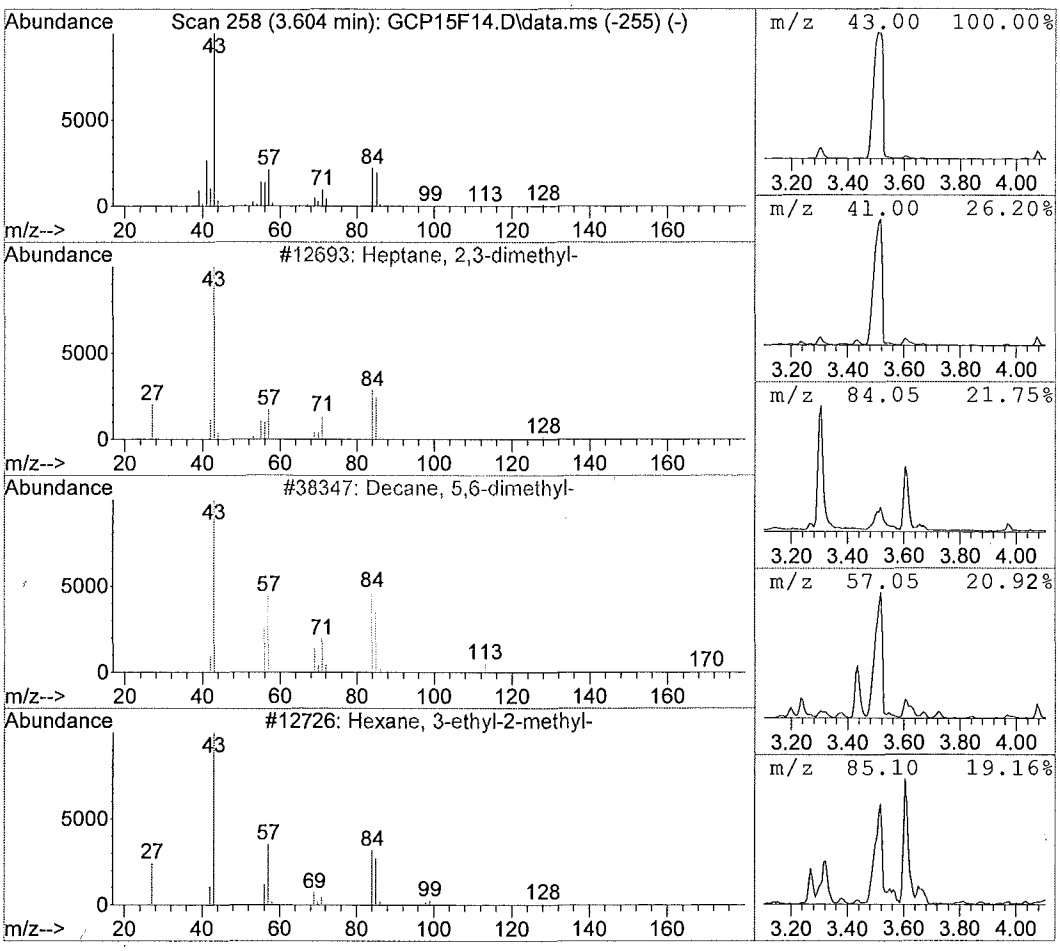
Data File : R:\G\2015\JUL15\10JUL15\GCP15F14.D Vial: 12
Acq On : 07/10/2015 18:07 Operator: TJM
Sample : 1515542014 F9M32 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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	5.15 ug/ml	592845	1,4-Dichlorobenzene-d4	2300384

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12693	003074-71-3	91.00
2	Decane, 5,6-dimethyl-	38347	001636-43-7	83.00
3	Hexane, 3-ethyl-2-methyl-	12726	016789-46-1	72.00
4	Octane, 4-methyl-	12674	002216-34-4	64.00
5	1-Octene, 4-methyl-	11522	013151-12-7	64.00

BA

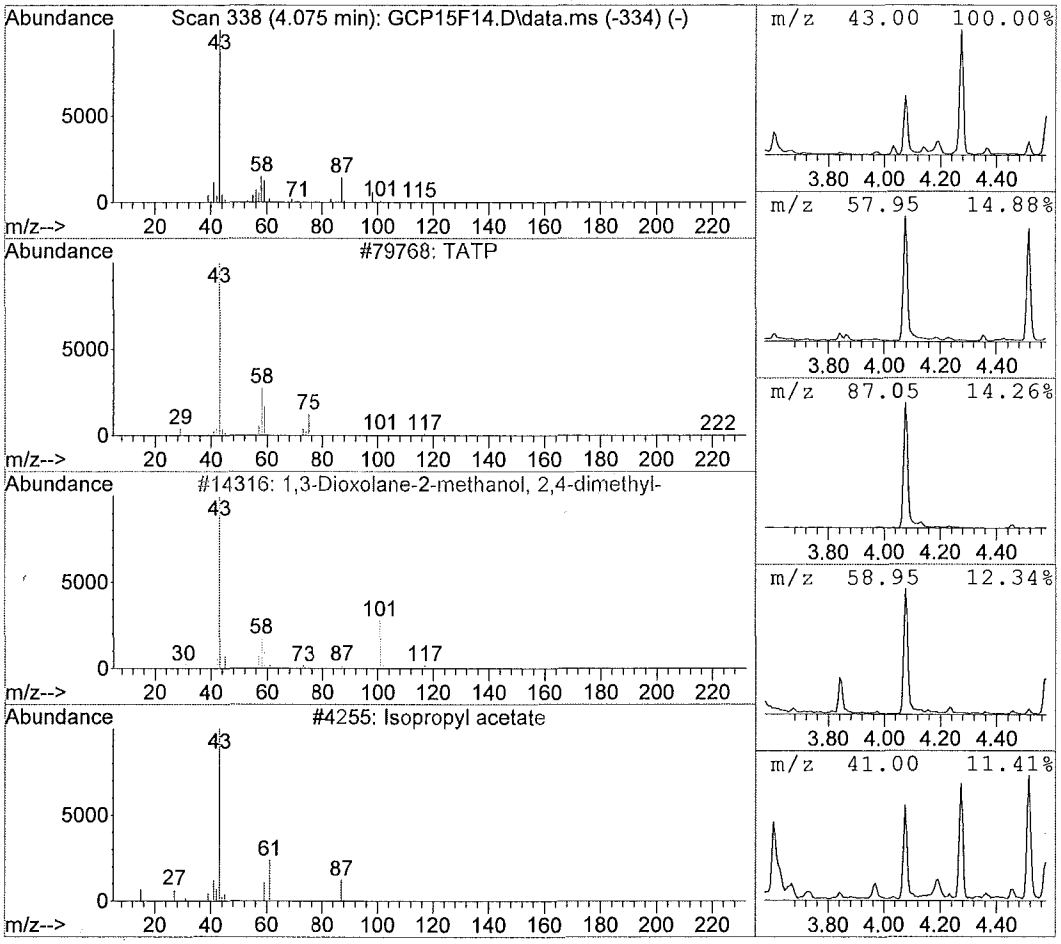


Data File : R:\G\2015\JUL15\10JUL15\GCP15F14.D Vial: 12
Acq On : 07/10/2015 18:07 Operator: TJM
Sample : 1515542014 F9M32 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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	9.26 ug/ml	1064587	1,4-Dichlorobenzene-d4	2300384

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	TATP	79768	017088-37-8	40.00
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

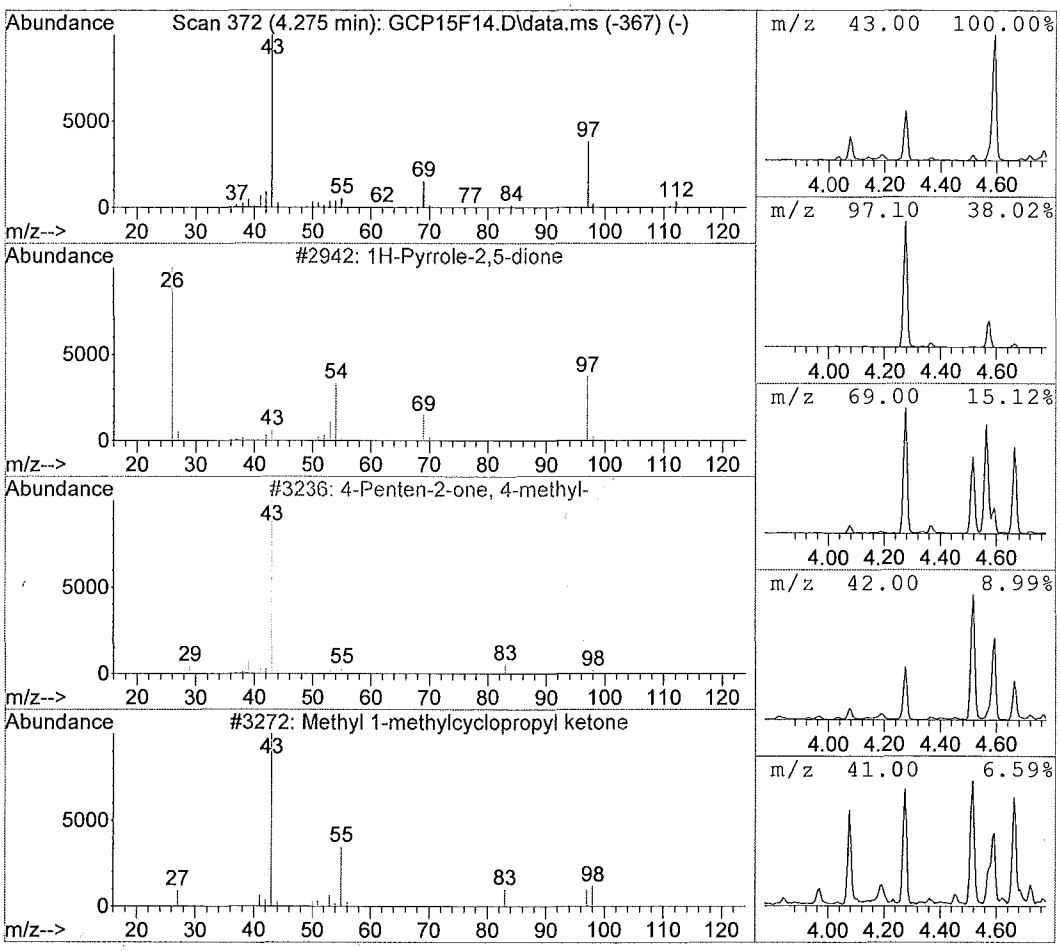
Data File : R:\G\2015\JUL15\10JUL15\GCP15F14.D
Acq On : 07/10/2015 18:07
Sample : 1515542014 F9M32
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 12
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	18.26 ug/ml	2099710	1,4-Dichlorobenzene-d4	2300384

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	32.00
2	4-Penten-2-one, 4-methyl-	3236	003744-02-3	9.00
3	Methyl 1-methylcyclopropyl ketone	3272	001567-75-5	9.00
4	5-Hexen-2-one	3152	000109-49-9	9.00
5	5-Hexen-2-one, 5-methyl-	6517	003240-09-3	5.00



Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP15F14.D
Acq On : 07/10/2015 18:07
Sample : 1515542014 F9M32
Misc : . SOIL SOM
MS Integration Params: rteint.p

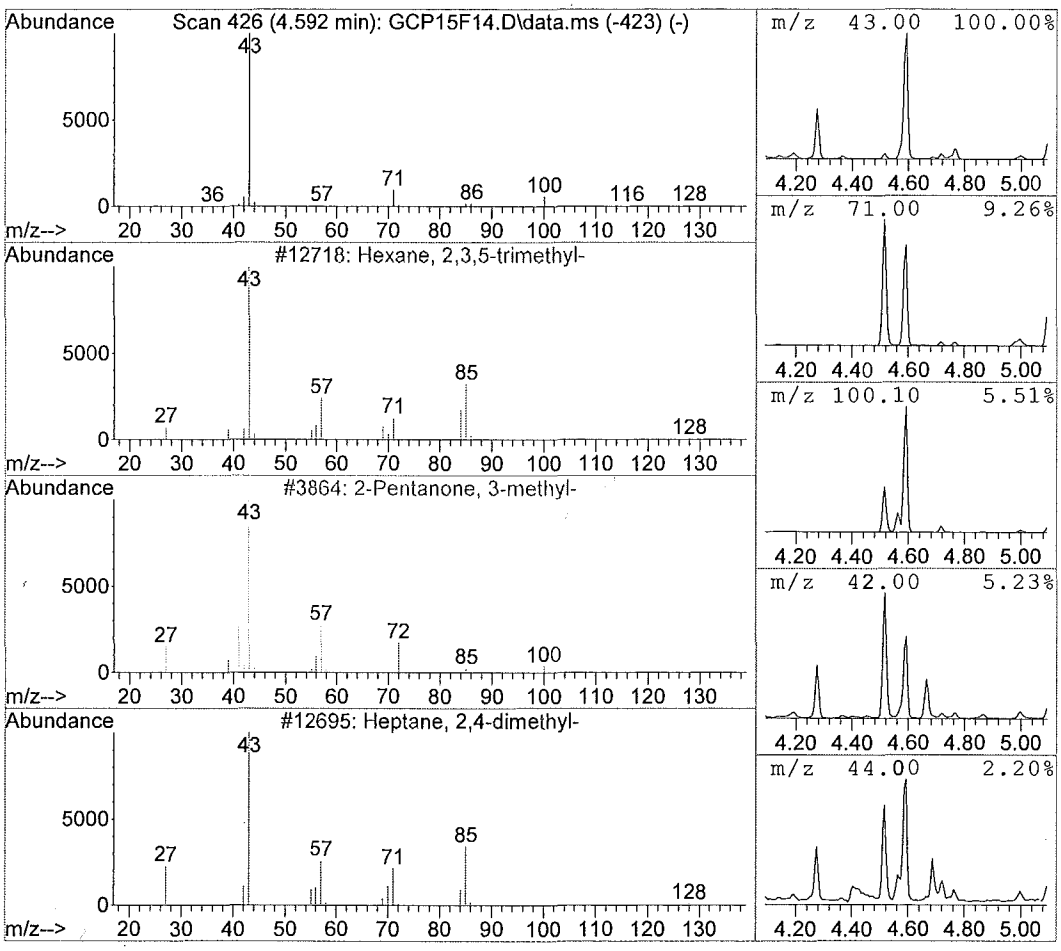
Vial: 12
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

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	30.37 ug/ml	3492958	1,4-Dichlorobenzene-d4	2300384

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	7.00
2	2-Pentanone, 3-methyl-	3864	000565-61-7	5.00
3	Heptane, 2,4-dimethyl-	12695	002213-23-2	5.00
4	1-Propen-2-ol, acetate	3687	000108-22-5	5.00
5	Hexane, 2,3,4-trimethyl-	12706	000921-47-1	5.00

BA



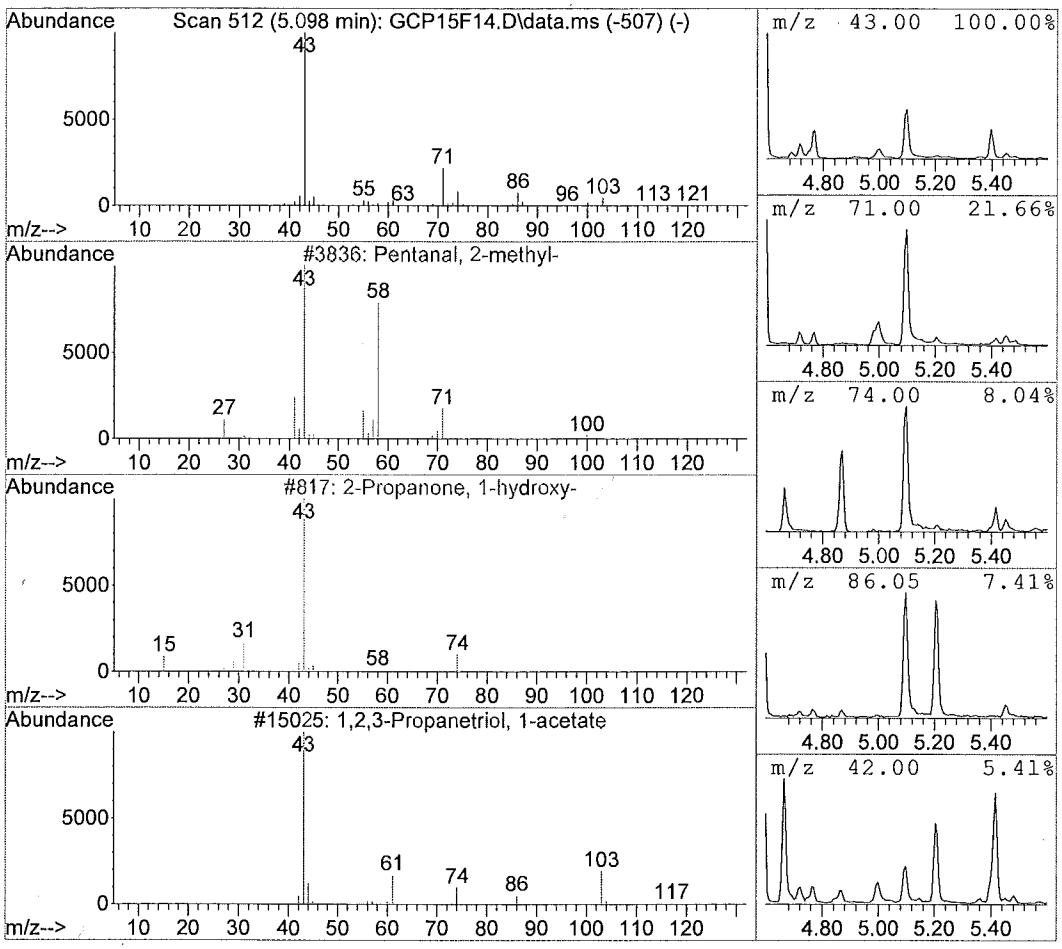
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP15F14.D Vial: 12
Acq On : 07/10/2015 18:07 Operator: TJM
Sample : 1515542014 F9M32 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
5.10	6.92 ug/ml	795370	1,4-Dichlorobenzene-d4	2300384

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentanal, 2-methyl-	3836	000123-15-9	38.00
2	2-Propanone, 1-hydroxy-	817	000116-09-6	22.00
3	1,2,3-Propanetriol, 1-acetate	15025	000106-61-6	17.00
4	Hydroxylamine, O-(3-methylbutyl)-	4618	019411-65-5	9.00
5	2-Butanone, 3-methyl-	1769	000563-80-4	9.00

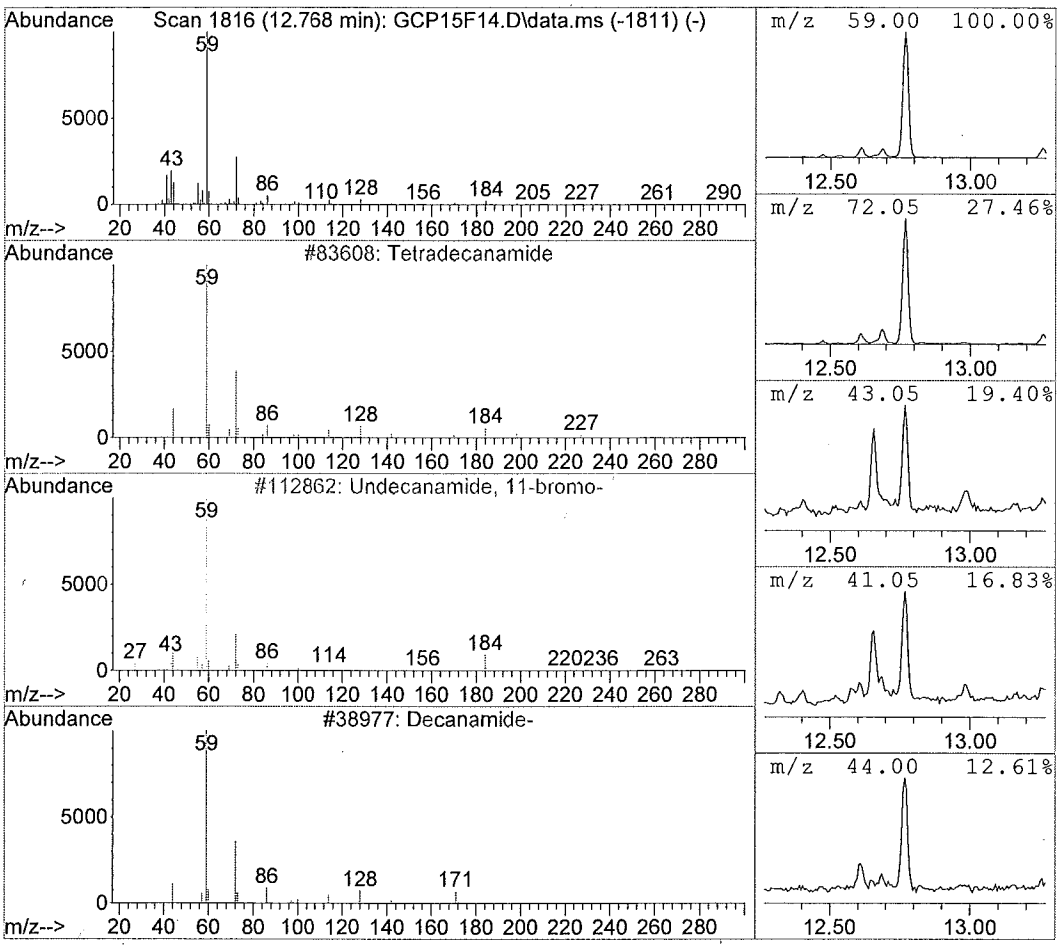


Data File : R:\G\2015\JUL15\10JUL15\GCP15F14.D Vial: 12
Acq On : 07/10/2015 18:07 Operator: TJM
Sample : 1515542014 F9M32 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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	3.64 ug/ml	551951	Phenanthrene-d10	3036404

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83608	000638-58-4	86.00
2	Undecanamide, 11-bromo-	112862	005875-26-3	83.00
3	Decanamide-	38977	002319-29-1	74.00
4	Nonanamide	29478	001120-07-6	74.00
5	Hexadecanamide	106565	000629-54-9	72.00



Library Search Compound Report

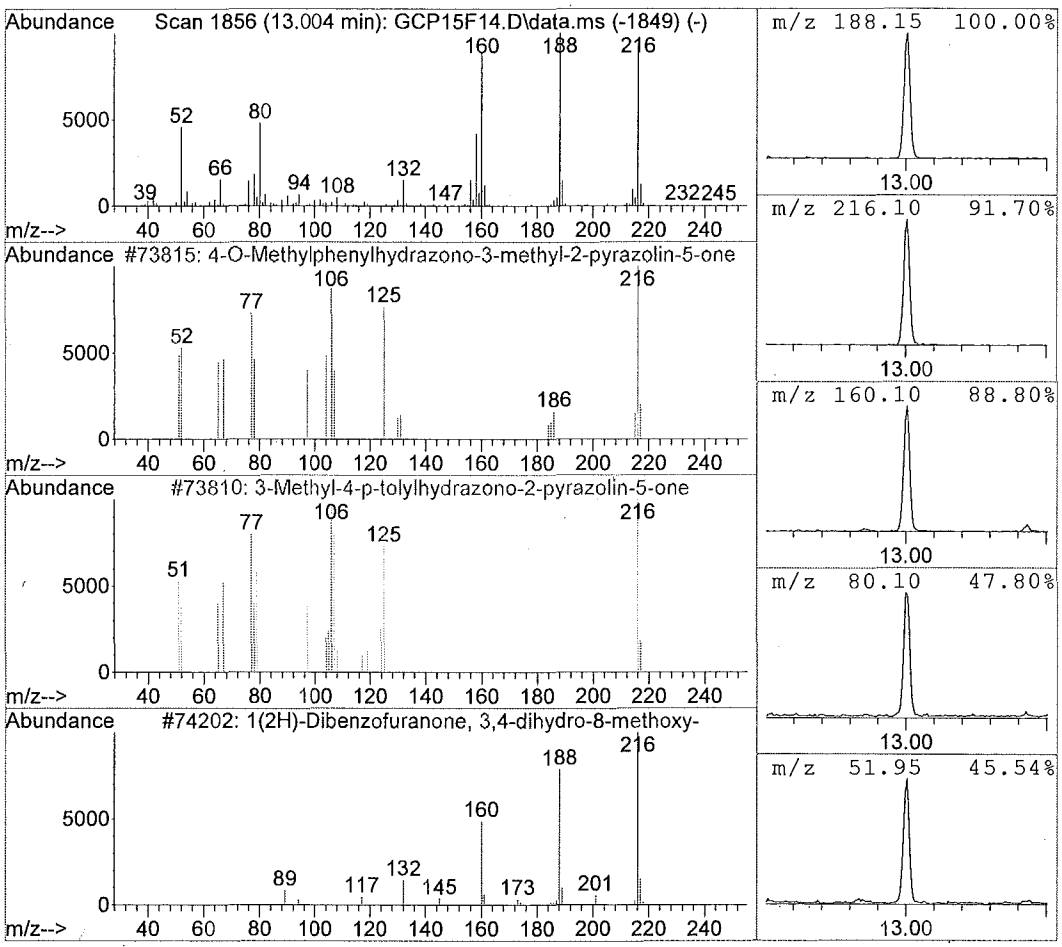
Data File : R:\G\2015\JUL15\10JUL15\GCP15F14.D
Acq On : 07/10/2015 18:07
Sample : 1515542014 F9M32
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 12
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	3.36 ug/ml	509506	Phenanthrene-d10	3036404

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4-O-Methylphenylhydrazono-3-methyl-	73815	065078-60-6	94.00
2	3-Methyl-4-p-tolylhydrazono-2-pyraz	73810	065078-61-7	86.00
3	1(2H)-Dibenzofuranone, 3,4-dihydro-	74202	095338-40-2	45.00
4	4H-Furo[3,2-g][1]benzopyran-4,7,9-t	73956	000483-36-3	22.00
5	1,3-Benzodioxole, 5-(2-cyclohexenon	74200	042866-84-2	22.00



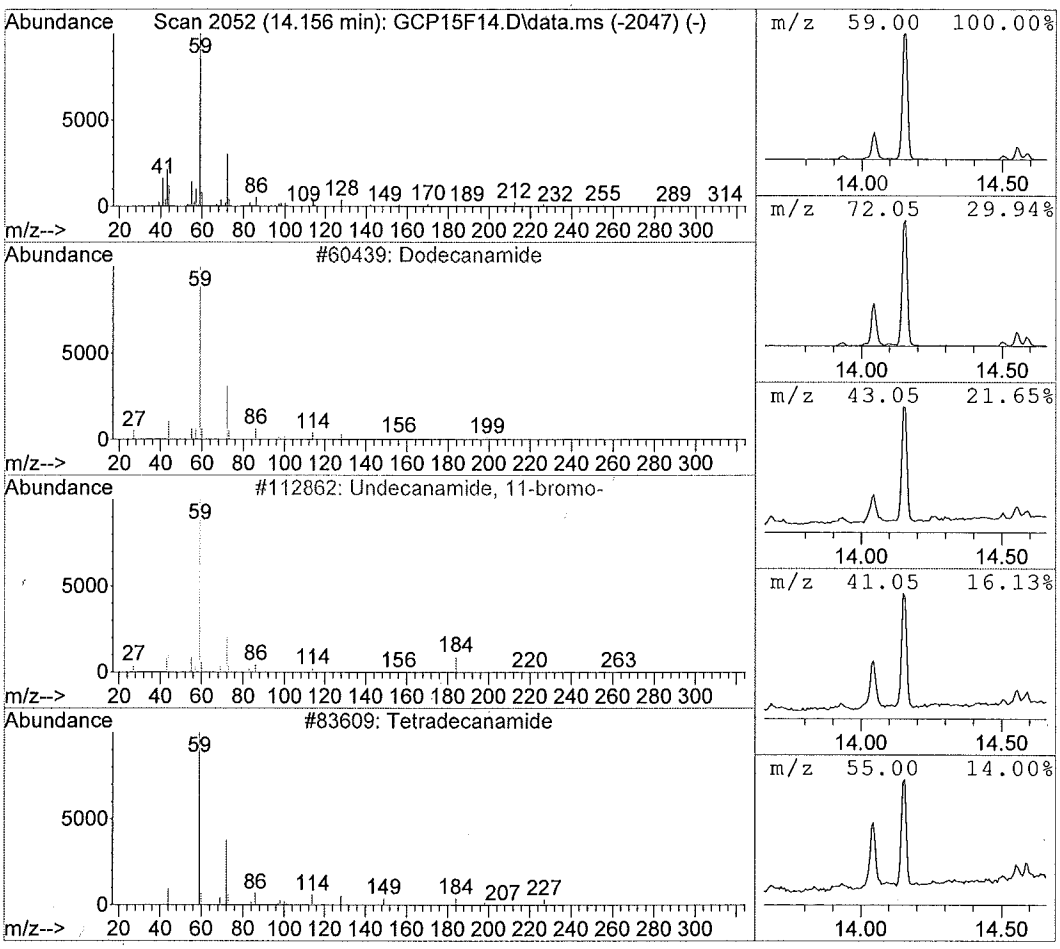
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP15F14.D Vial: 12
Acq On : 07/10/2015 18:07 Operator: TJM
Sample : 1515542014 F9M32 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
14.16	11.88 ug/ml	1813864	Chrysene-d12	3052433

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	83.00
2	Undecanamide, 11-bromo-	112862	005875-26-3	78.00
3	Tetradecanamide	83609	000638-58-4	78.00
4	Nonanamide	29478	001120-07-6	78.00
5	Decanamide-	38977	002319-29-1	74.00



: 00372

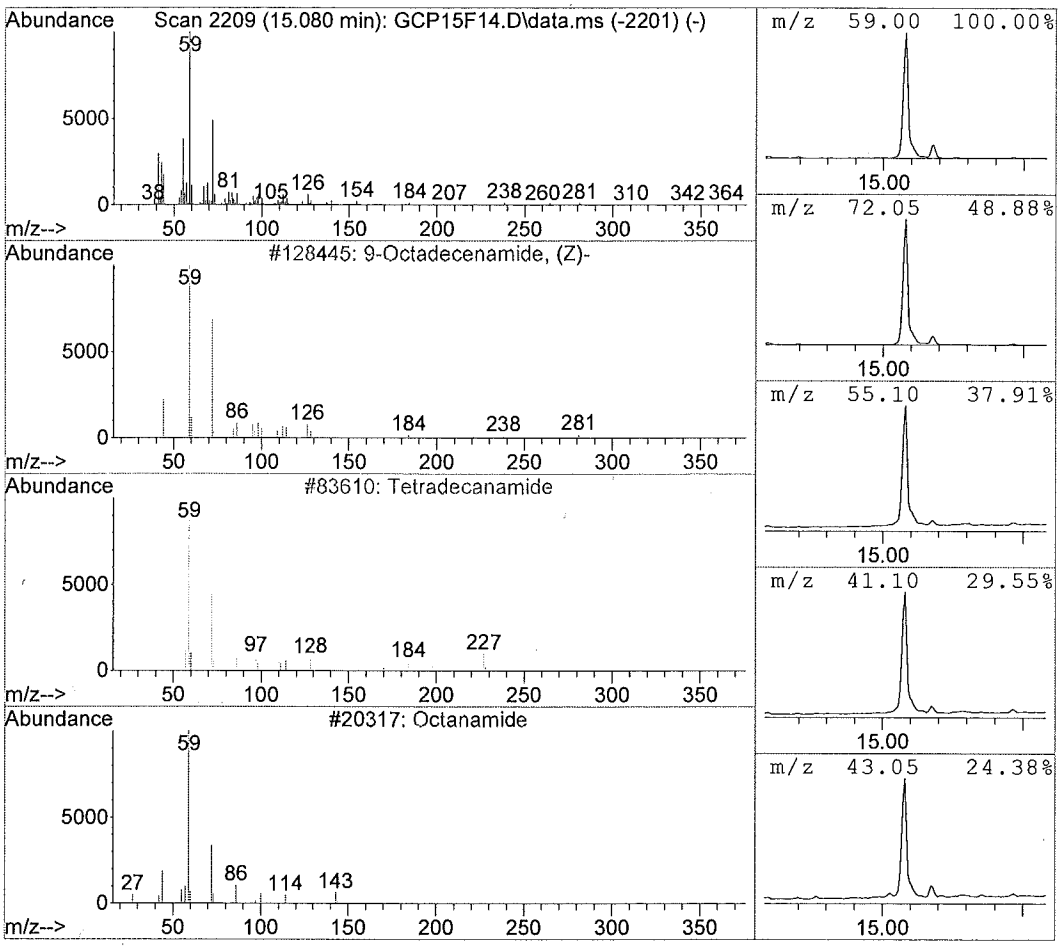
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP15F14.D Vial: 12
Acq On : 07/10/2015 18:07 Operator: TJM
Sample : 1515542014 F9M32 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
15.08	64.50 ug/ml	9843750	Chrysene-d12	3052433

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	92.00
2	Tetradecanamide	83610	000638-58-4	87.00
3	Octanamide	20317	000629-01-6	80.00
4	7-Nonenamide	28131	090949-53-4	72.00
5	Hexadecanamide	106565	000629-54-9	72.00



Library Search Compound Report

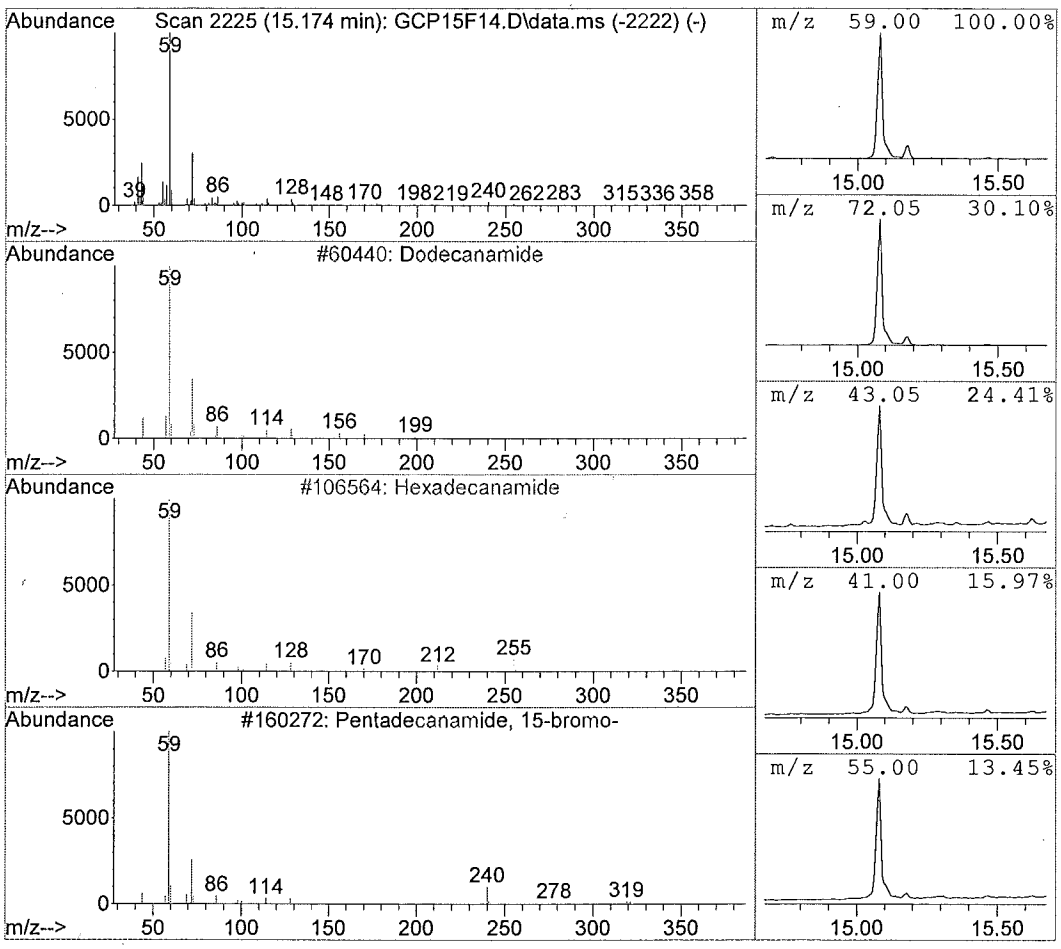
Data File : R:\G\2015\JUL15\10JUL15\GCP15F14.D
Acq On : 07/10/2015 18:07
Sample : 1515542014 F9M32
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 12
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	3.40 ug/ml	518723	Chrysene-d12	3052433

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60440	001120-16-7	91.00
2	Hexadecanamide	106564	000629-54-9	90.00
3	Pentadecanamide, 15-bromo-	160272	1000163-86-1	83.00
4	Nonanamide	29478	001120-07-6	78.00
5	Undecanamide, 11-bromo-	112862	005875-26-3	78.00



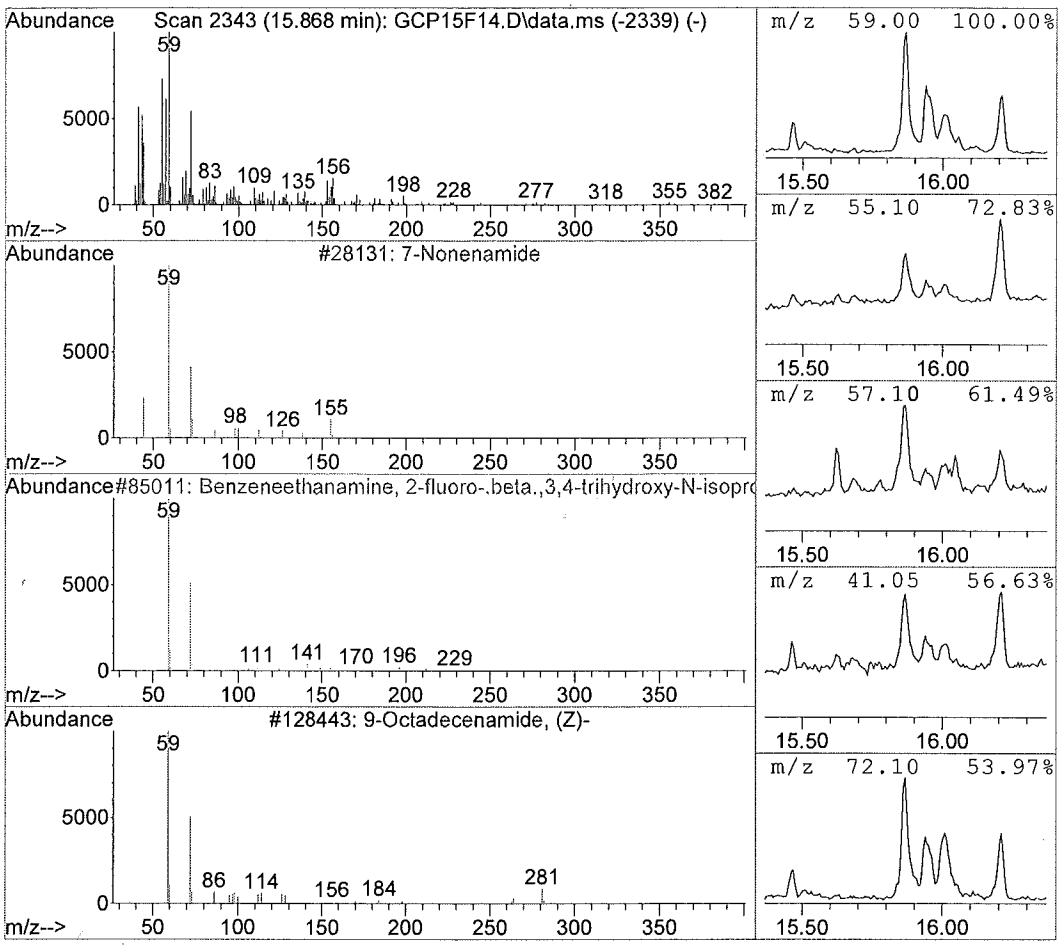
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP15F14.D Vial: 12
Acq On : 07/10/2015 18:07 Operator: TJM
Sample : 1515542014 F9M32 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
15.87	5.02 ug/ml	765515	Chrysene-d12	3052433

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	7-Nonenamide	28131	090949-53-4	62.00
2	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	58.00
3	9-Octadecenamide, (Z)-	128443	000301-02-0	53.00
4	Tetradecanamide	83609	000638-58-4	49.00
5	cis-9,10-Epoxyoctadecanamide	142013	172995-07-2	43.00



00375

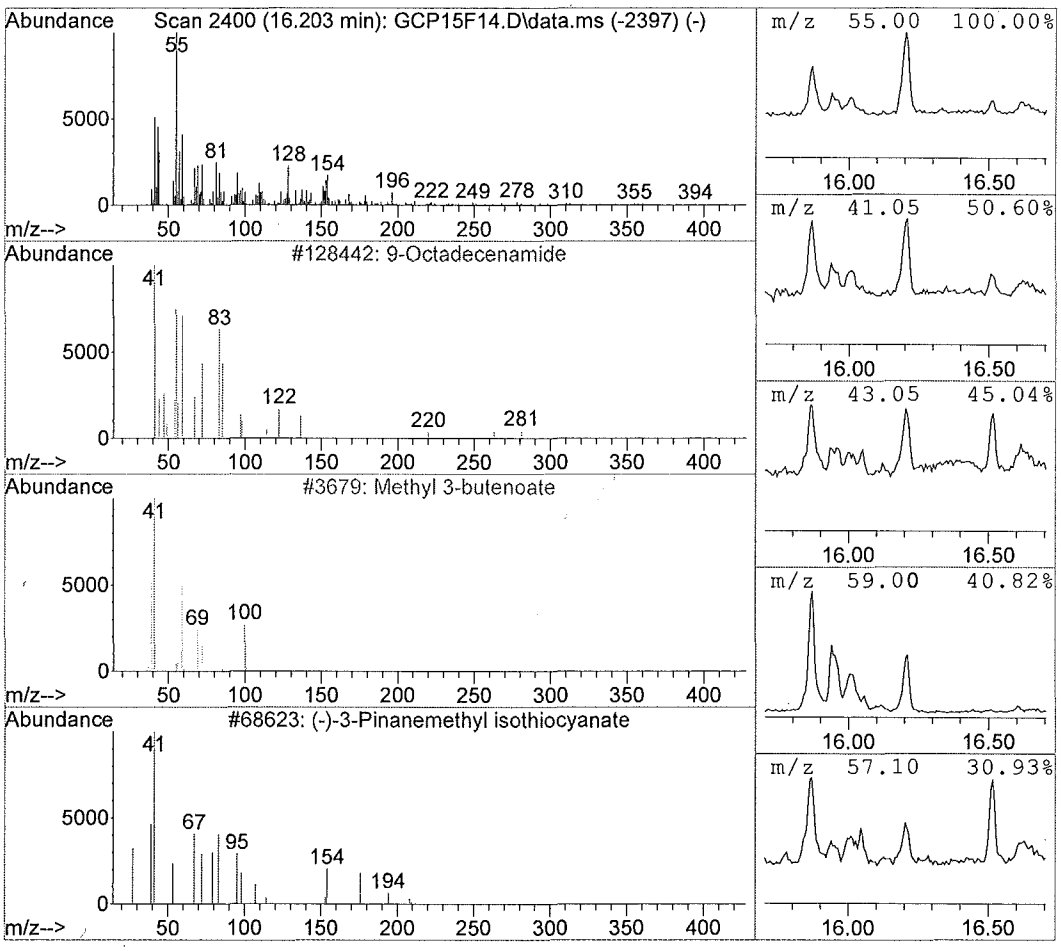
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP15F14.D Vial: 12
Acq On : 07/10/2015 18:07 Operator: TJM
Sample : 1515542014 F9M32 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	5.58 ug/ml	851268	Chrysene-d12	3052433

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide	128442	003322-62-1	25.00
2	Methyl 3-butenoate	3679	003724-55-8	22.00
3	(-)-3-Pinanemethyl isothiocyanate	68623	1000134-66-0	18.00
4	N-(3-Methyl-2,5-dioxo-imidazolidin-	39190	1000287-36-8	14.00
5	(+)-3-Pinanemethyl isothiocyanate	68622	1000134-64-1	14.00



00376

Library Search Compound Report

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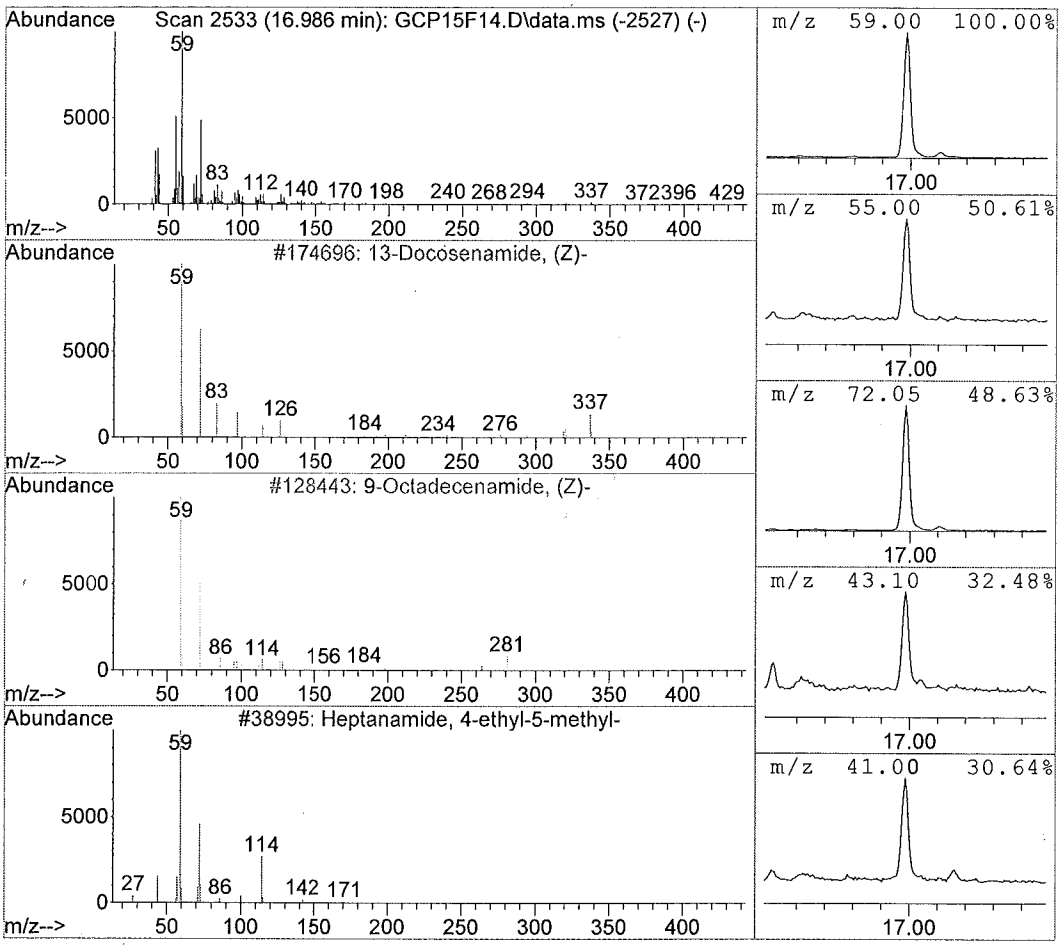
Acq On : 07/10/2015 18:07
Sample : 1515542014 F9M32
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 12
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
16.99	30.62 ug/ml	2854572	Perylene-d12	1864758

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Docosenamide, (Z)-	174696	000112-84-5	87.00
2	9-Octadecenamide, (Z)-	128443	000301-02-0	83.00
3	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	64.00
4	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	64.00
5	Hexadecanamide	106565	000629-54-9	56.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M33

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GCP16F15

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

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

GPC Cleanup: (Y/N) Y pH: 8.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	190	U
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	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.: F9M33

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GCP16F15

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

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

GPC Cleanup: (Y/N) Y pH: 8.1 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	19.	J
117-81-7	Bis(2-ethylhexyl)phthalate	190	U
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	18.	J
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9M33

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GCP16F15

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

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

GPC Cleanup: (Y/N) Y pH: 8.1 Dilution Factor: 1.0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 1,3-Dioxolane, 2,2-dimethyl-	2.31	920	J
02		Unknown 2-Pentanone, 4-hydroxy-	3.30	810	JB
03		Unknown Guanidine	3.52	18000	J
04		Unknown TATP	4.07	390	J
05		Unknown 1H-Pyrrole-2,5-dione	4.27	460	J
06		Unknown Diethyl carbitol	4.69	450	J
07	1120-16-7	Dodecanamide	14.15	360	JN
08	301-02-0	9-Octadecenamide, (Z)-	15.08	2100	JNB
09		Unknown 7-Nonenamide	15.86	140	J
10		Unknown Cyclohexanecarboxamide	16.20	220	J
11	301-02-0	9-Octadecenamide, (Z)-	16.98	1400	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

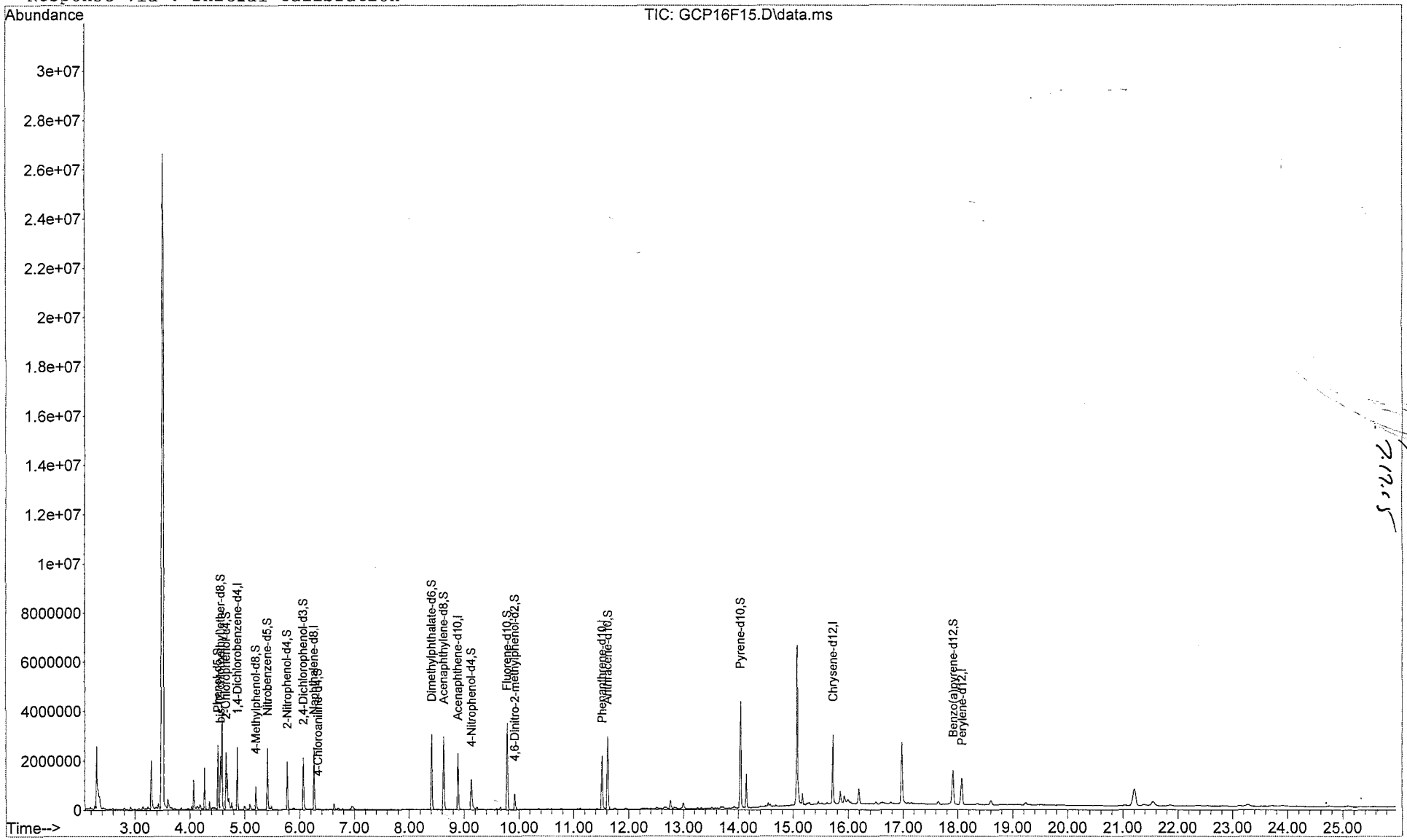
[2] EPA-designated Registry Number.

Quantitation Report

Data File : R:\G\2015\JUL15\10JUL15\GCP16F15.D Vial: 13
Acq On : 07/10/2015 18:41 Operator: TJM
Sample : 1515542015 F9M33 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jul 17 09:33:10 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\10JUL15\GCP16F15.D Vial: 13
Acq On : 07/10/2015 18:41 Operator: TJM
Sample : 1515542015 F9M33 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 17 09:33:10 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	321341	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1193925	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	703681	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1163221	20.00 ug/ml
73) Chrysene-d12	15.73	240	1158870	20.00 ug/ml
81) Perylene-d12	18.08	264	784946	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.52	99	716699	25.630ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	493277	22.635ug/mL
7) 2-Chlorophenol-d4	4.67	132	551323	23.351ug/ml
13) 4-Methylphenol-d8	5.20	113	184609	9.870ug/mL
17) Nitrobenzene-d5	5.42	128	275066	26.226ug/ml
21) 2-Nitrophenol-d4	5.77	143	293003	26.430ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	441464	25.574ug/mL
28) 4-Chloroaniline-d4	6.33	131	16681	0.885ug/mL
42) Dimethylphthalate-d6	8.42	166	1490180	33.772ug/mL
45) Acenaphthylene-d8	8.63	160	1711902	28.548ug/mL
50) 4-Nitrophenol-d4	9.14	143	284606	31.617ug/mL
57) Fluorene-d10	9.79	176	1232783	32.715ug/mL
61) 4,6-Dinitro-2-methylphenol	9.93	200	99770	12.084ug/mL
69) Anthracene-d10	11.62	188	1768444	28.668ug/mL
75) Pyrene-d10	14.04	212	1883429	32.567ug/mL
86) Benzo(a)pyrene-d12	17.92	264	937903	24.936ug/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)

000382

Quantitation Report

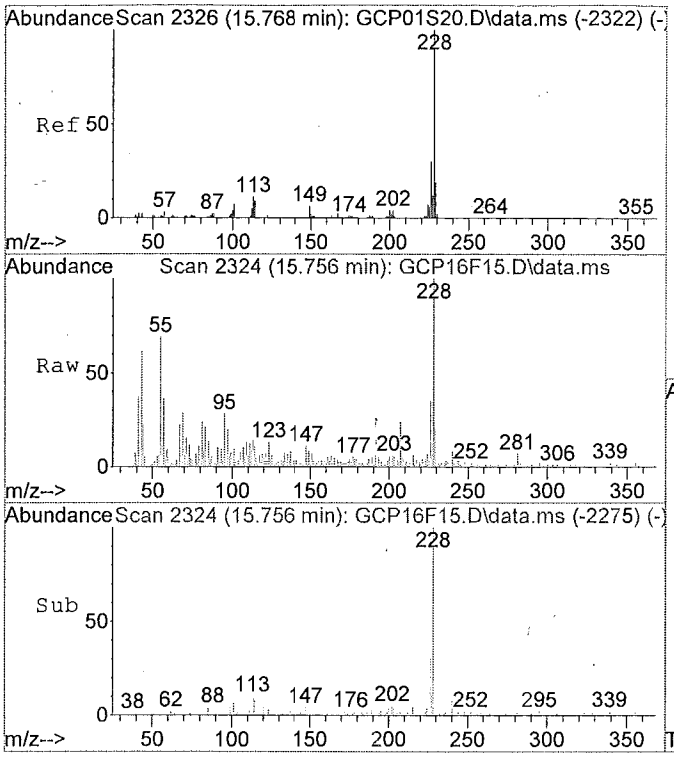
Data File : R:\G\2015\JUL15\10JUL15\GCP16F15.D Vial: 13
Acq On : 07/10/2015 18:41 Operator: TJM
Sample : 1515542015 F9M33 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 17 09:33:10 2015 Results File: GSOM01D6.RES

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	15.76	228	32147	0.506ug/ml	92
80)	Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	17.34	252	24287	0.494ug/ml	94
84)	Benzo(k)fluoranthene	0.00	252		Not Detected	
85)	Benzo(a)pyrene	0.00	252		Not Detected	
87)	Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88)	Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89)	Benzo(g,h,i)perylene	0.00	276		Not Detected	

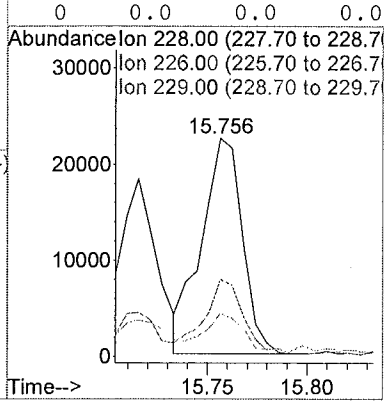
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

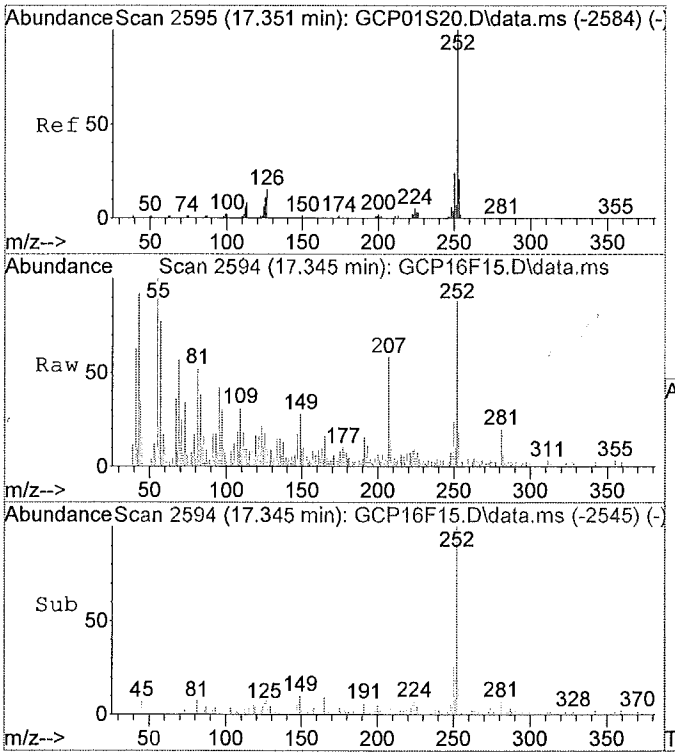
: 88383



#79
Chrysene
Concen: 0.51 ug/ml
RT: 15.76 min Scan# 2324
Delta R.T. -0.01 min
Lab File: GCP16F15.D
Acq: 07/10/2015 18:41

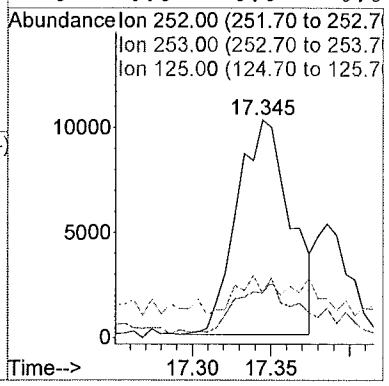
Tgt Ion:228	Resp:	32147	
Ion	Ratio	Lower	Upper
228	100		
226	32.6	20.1	37.3
229	15.7	13.7	25.5
0	0.0	0.0	0.0





#83
Benzo(b)fluoranthene
Concen: 0.49 ug/ml
RT: 17.34 min Scan# 2594
Delta R.T. -0.01 min
Lab File: GCP16F15.D
Acq: 07/10/2015 18:41

Tgt Ion:252	Resp:	24287	
Ion	Ratio	Lower	Upper
252	100		
253	24.0	15.1	28.1
125	12.4	10.6	19.8
0	0.0	0.0	0.0



Library Search Compound Report

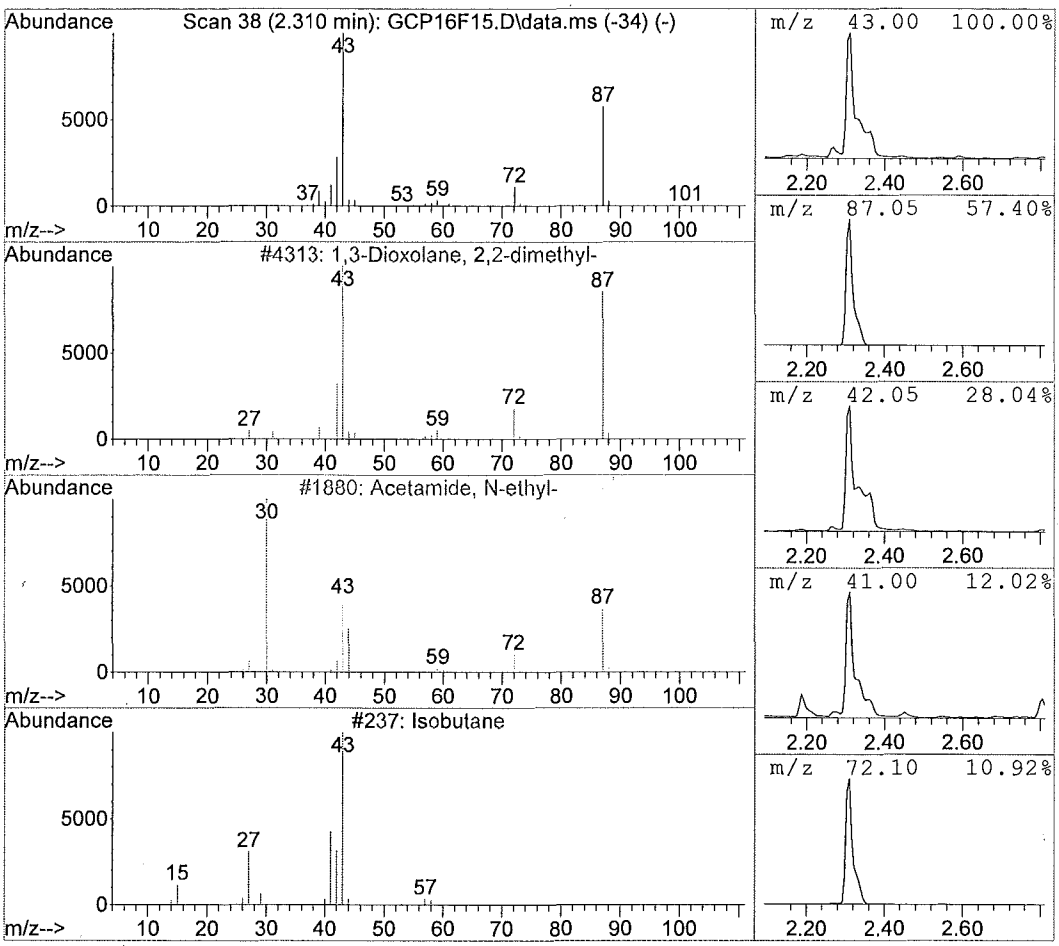
Data File : R:\G\2015\JUL15\10JUL15\GCP16F15.D
Acq On : 07/10/2015 18:41
Sample : 1515542015 F9M33
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 13
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
2.31	24.62 ug/ml	2891737	1,4-Dichlorobenzene-d4	2349410

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,3-Dioxolane, 2,2-dimethyl-	4313	002916-31-6	53.00
2	Acetamide, N-ethyl-	1880	000625-50-3	42.00
3	Isobutane	237	000075-28-5	9.00
4	Oxazolidin-2-one	1845	000497-25-6	9.00
5	2-Propanone, O-methyloxime	1895	003376-35-0	9.00



Library Search Compound Report

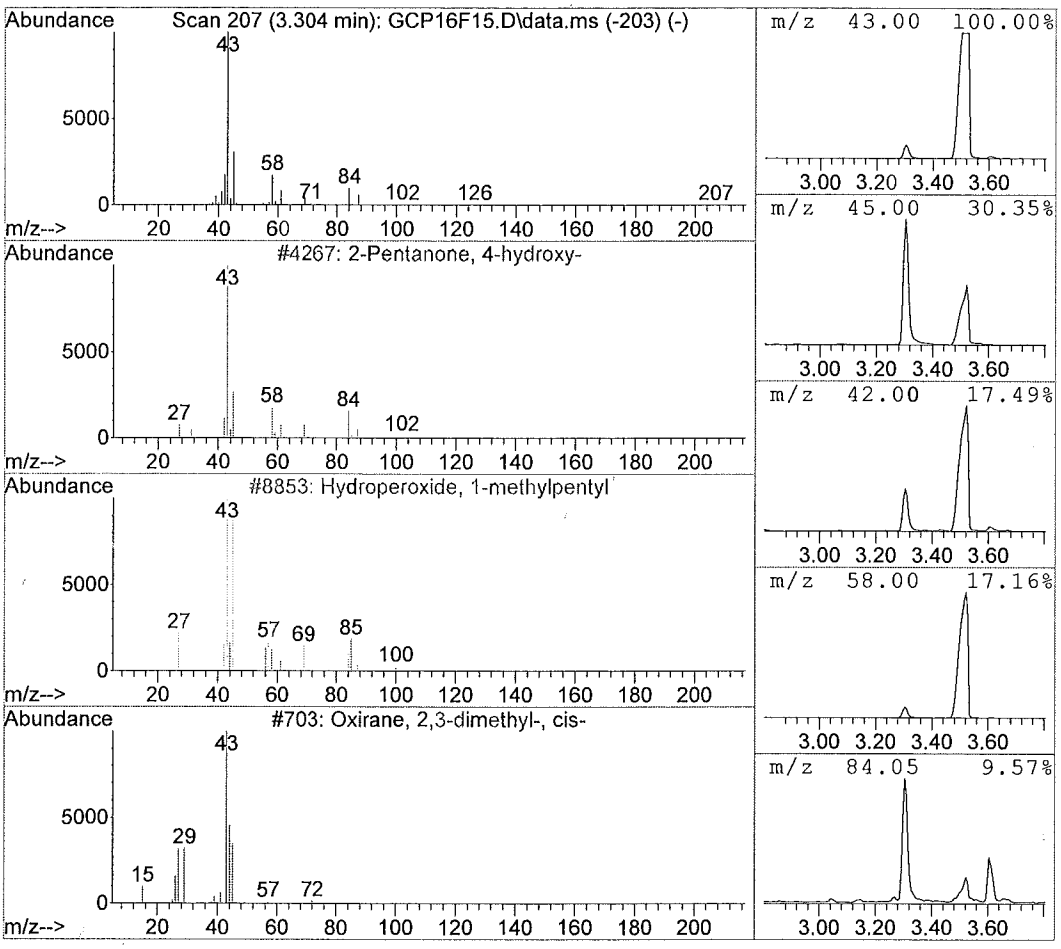
Data File : R:\G\2015\JUL15\10JUL15\GCP16F15.D
Acq On : 07/10/2015 18:41
Sample : 1515542015 F9M33
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 13
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	21.60 ug/ml	2536792	1,4-Dichlorobenzene-d4	2349410

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	40.00
2	Hydroperoxide, 1-methylpentyl	8853	024254-55-5	33.00
3	Oxirane, 2,3-dimethyl-, cis-	703	001758-33-4	17.00
4	Acetone	214	000067-64-1	9.00
5	1-Tetrazol-2-ylethanone	6198	051410-11-8	9.00



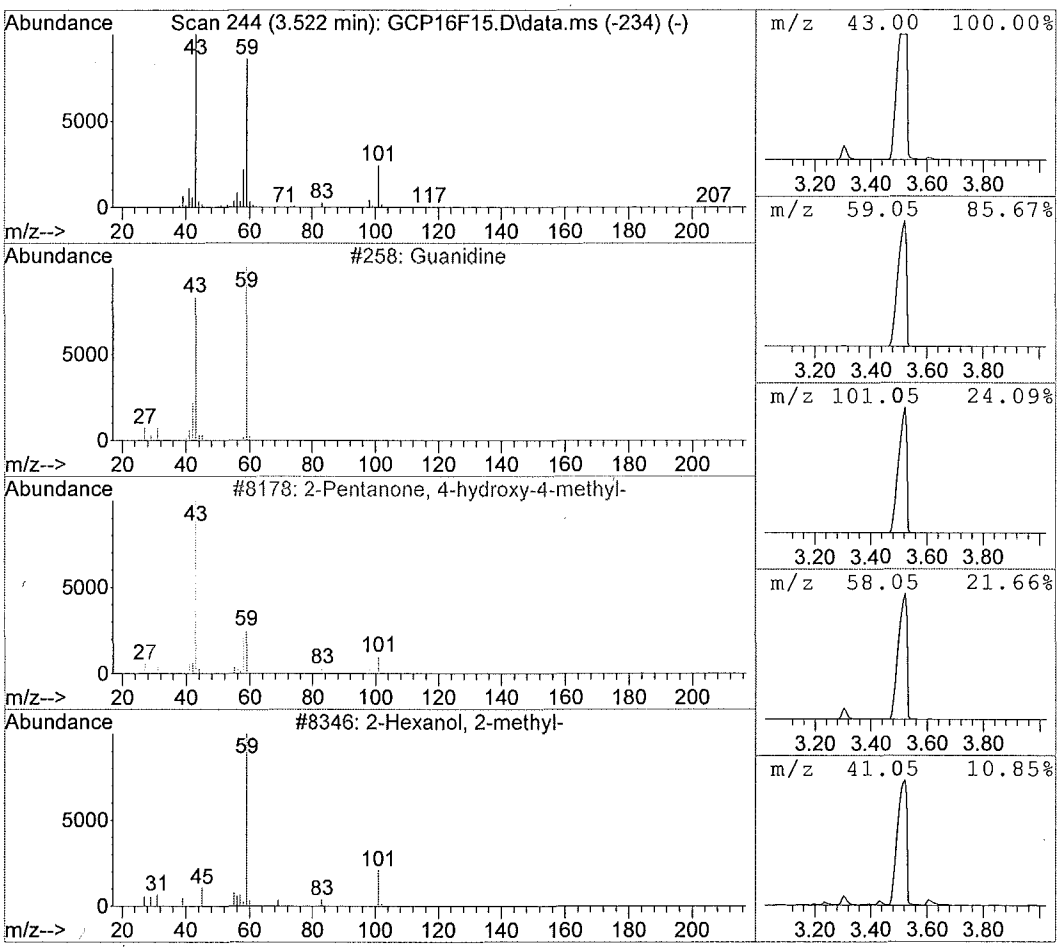
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP16F15.D Vial: 13
Acq On : 07/10/2015 18:41 Operator: TJM
Sample : 1515542015 F9M33 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
3.52	488.34 ug/ml	57365923	1,4-Dichlorobenzene-d4	2349410

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Guanidine	258	000113-00-8	52.00
2	2-Pentanone, 4-hydroxy-4-methyl-	8178	000123-42-2	50.00
3	2-Hexanol, 2-methyl-	8346	000625-23-0	36.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
5	Acetone	213	000067-64-1	9.00



Library Search Compound Report

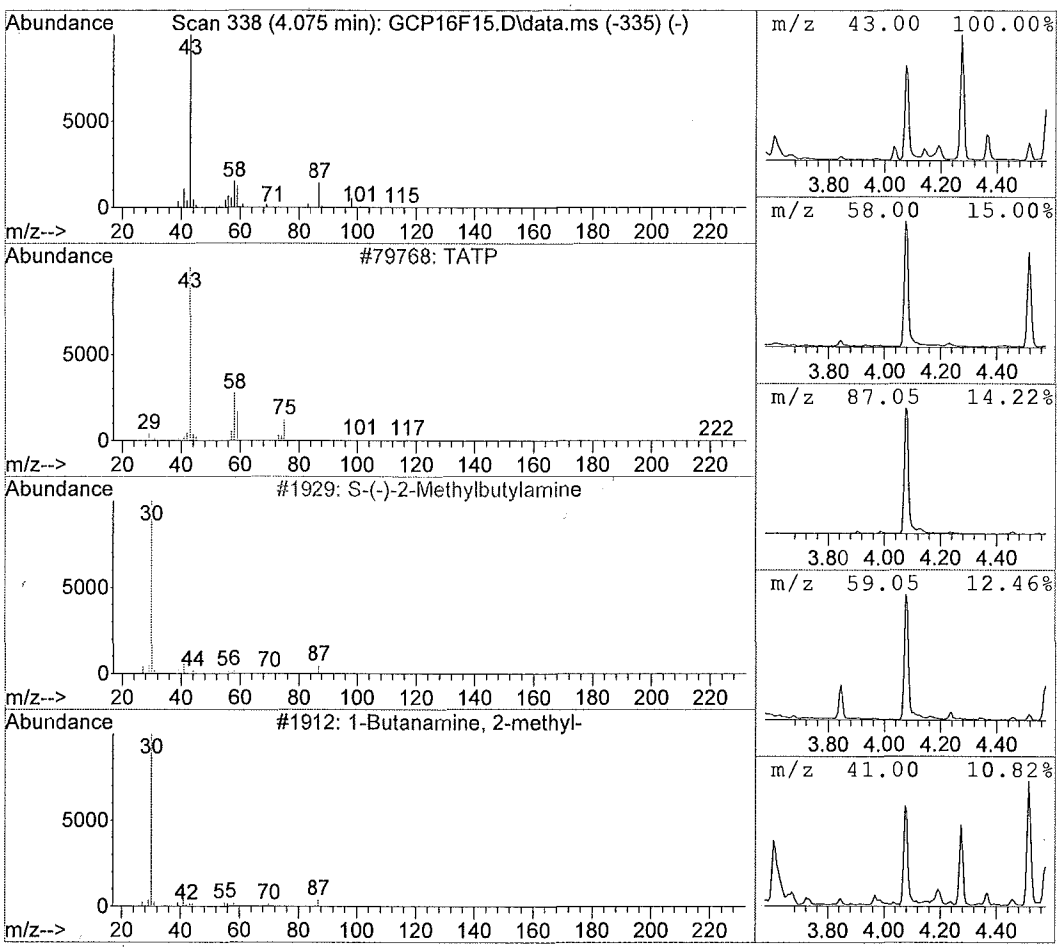
Data File : R:\G\2015\JUL15\10JUL15\GCP16F15.D
Acq On : 07/10/2015 18:41
Sample : 1515542015 F9M33
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 13
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	10.54 ug/ml	1238310	1,4-Dichlorobenzene-d4	2349410

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	TATP	79768	017088-37-8	32.00
2	S-(-)-2-Methylbutylamine	1929	020626-52-2	9.00
3	1-Butanamine, 2-methyl-	1912	000096-15-1	9.00
4	1-Pentanamine	1907	000110-58-7	9.00
5	Acetaldehyde, O-ethyloxime-	1897	1000288-34-6	9.00



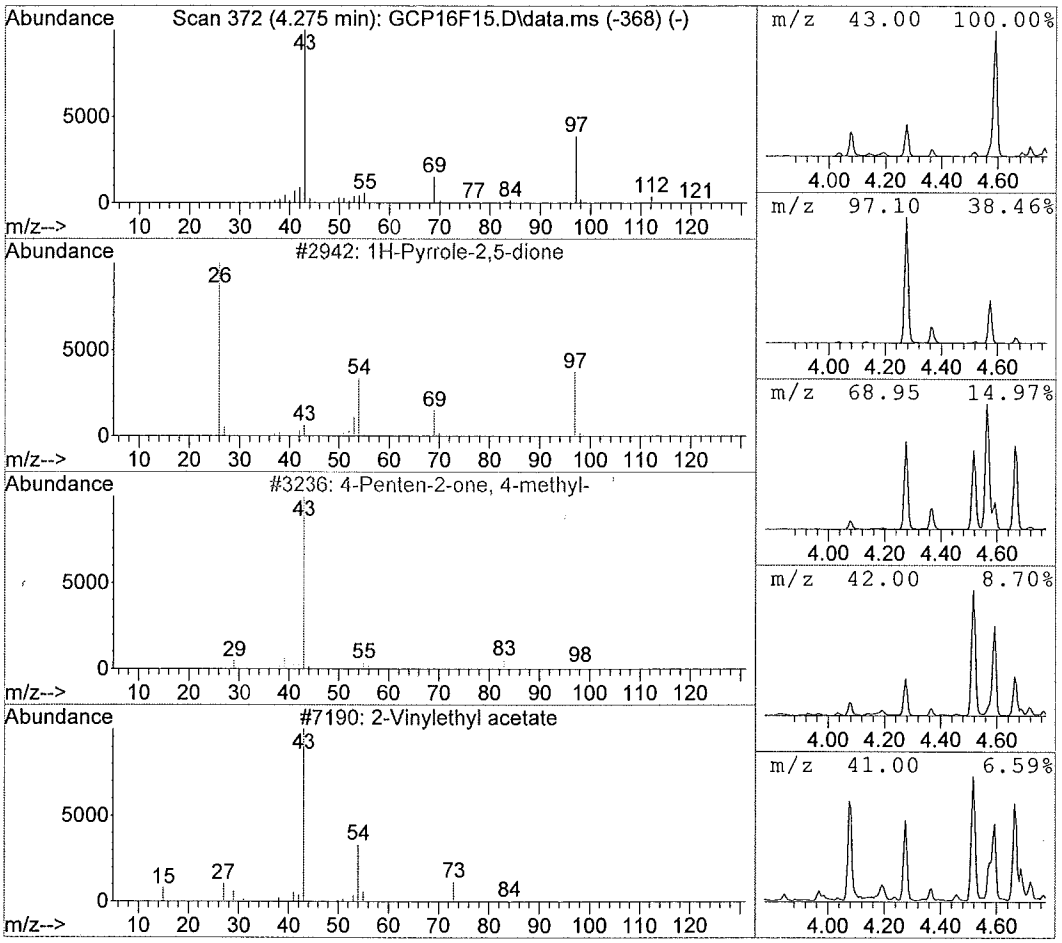
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP16F15.D Vial: 13
Acq On : 07/10/2015 18:41 Operator: TJM
Sample : 1515542015 F9M33 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	12.20 ug/ml	1433646	1,4-Dichlorobenzene-d4	2349410

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-Vinylethyl acetate	7190	001576-84-7	9.00
4	5-Hexen-2-one	3158	000109-49-9	9.00
5	Methyl 1-methylcyclopropyl ketone	3272	001567-75-5	9.00



Library Search Compound Report

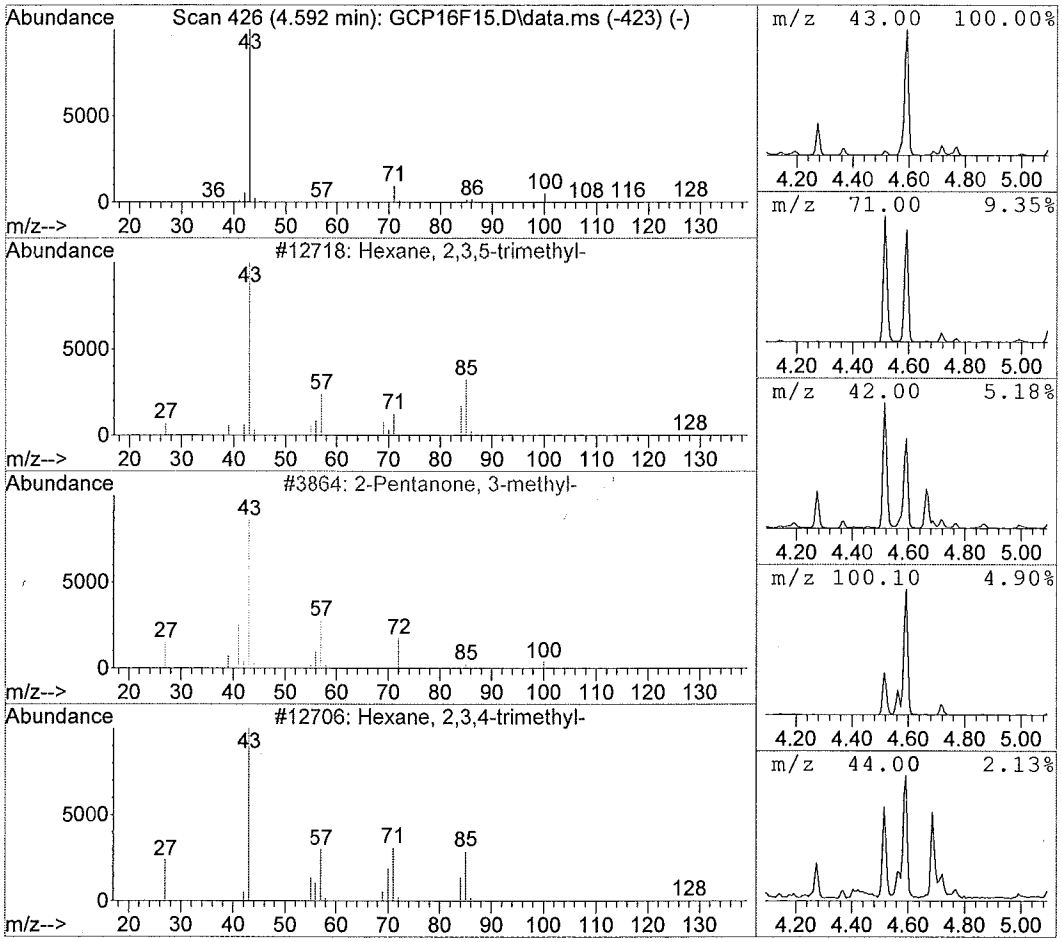
Data File : R:\G\2015\JUL15\10JUL15\GCP16F15.D Vial: 13
Acq On : 07/10/2015 18:41 Operator: TJM
Sample : 1515542015 F9M33 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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	33.26 ug/ml	3907404	1,4-Dichlorobenzene-d4	2349410

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	7.00
2	2-Pentanone, 3-methyl-	3864	000565-61-7	5.00
3	Hexane, 2,3,4-trimethyl-	12706	000921-47-1	5.00
4	Heptane	3970	000142-82-5	5.00
5	Hexane, 2-methyl-	3979	000591-76-4	4.00

BA



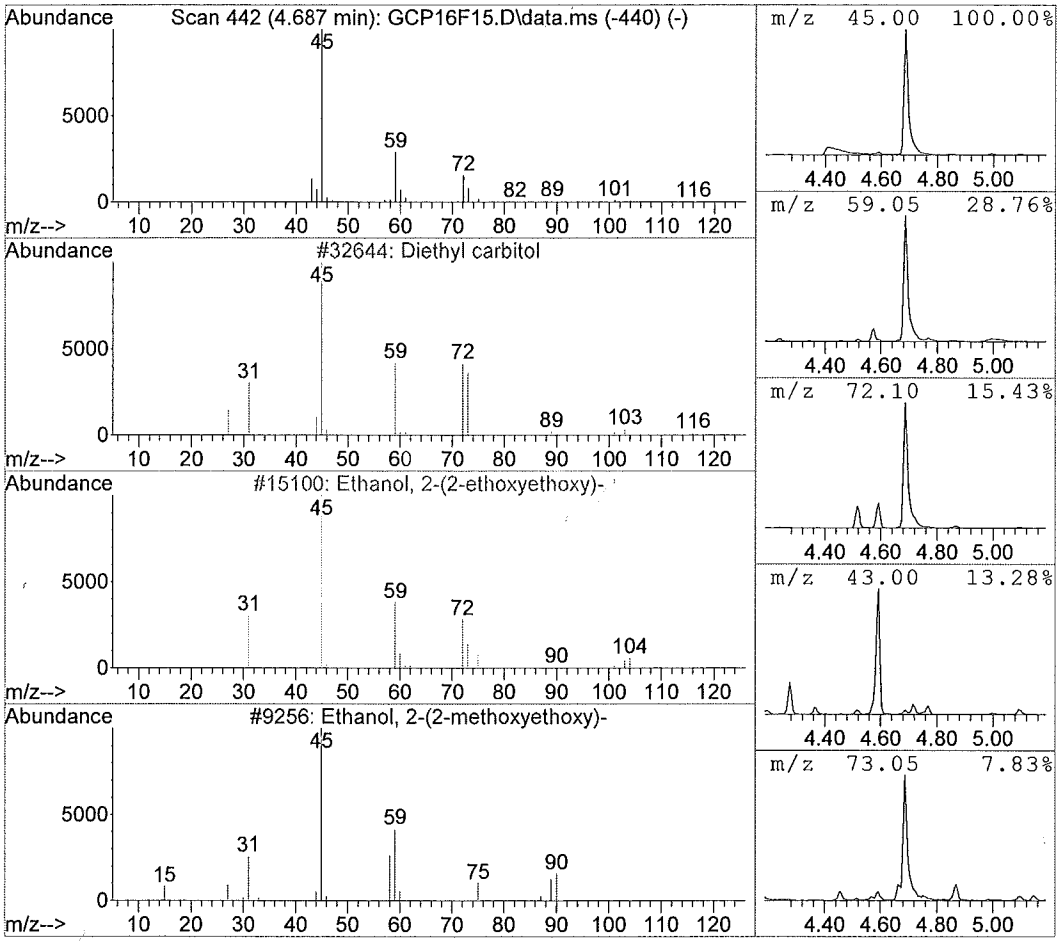
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP16F15.D Vial: 13
Acq On : 07/10/2015 18:41 Operator: TJM
Sample : 1515542015 F9M33 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	12.16 ug/ml	1428403	1,4-Dichlorobenzene-d4	2349410

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Diethyl carbitol	32644	000112-36-7	78.00
2	Ethanol, 2-(2-ethoxyethoxy)-	15100	000111-90-0	64.00
3	Ethanol, 2-(2-methoxyethoxy)-	9256	000111-77-3	39.00
4	1-Propanol, 2-ethoxy-	4766	019089-47-5	36.00
5	2-Propanol, 1-ethoxy-	4768	001569-02-4	9.00



Library Search Compound Report

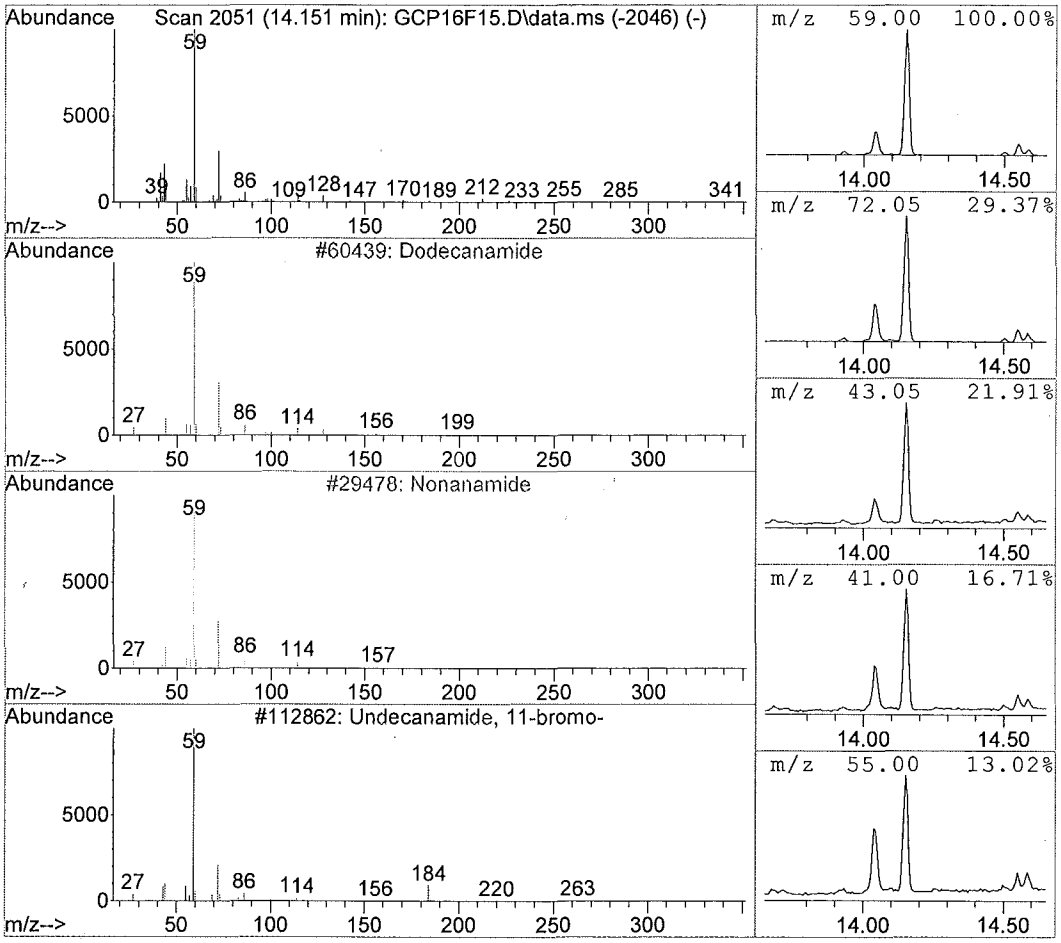
Data File : R:\G\2015\JUL15\10JUL15\GCP16F15.D
Acq On : 07/10/2015 18:41
Sample : 1515542015 F9M33
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 13
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	9.71 ug/ml	1588650	Chrysene-d12	3273507

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	78.00
4	Decanamide-	38977	002319-29-1	74.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	64.00



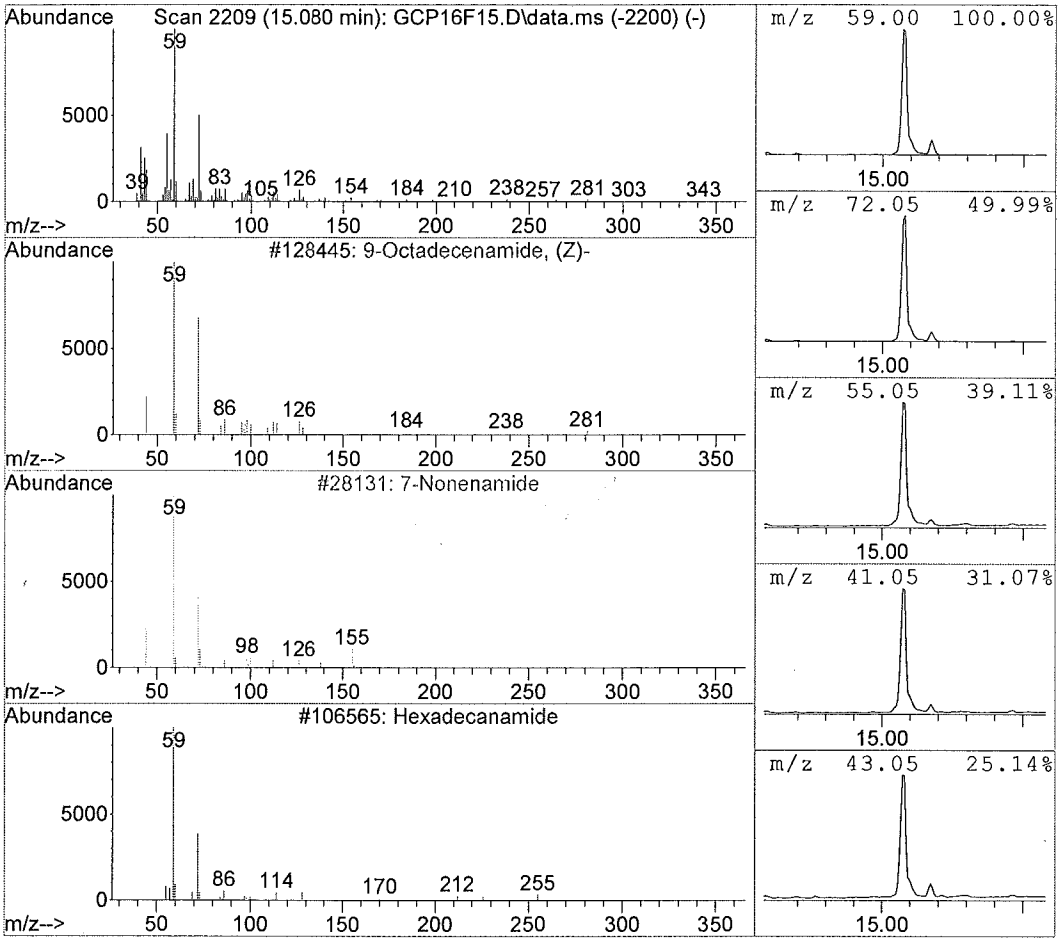
: 00392

Data File : R:\G\2015\JUL15\10JUL15\GCP16F15.D Vial: 13
Acq On : 07/10/2015 18:41 Operator: TJM
Sample : 1515542015 F9M33 Inst : 5975-G
Misc : . SOIL SOM Injection volume : luL
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
15.08	55.96 ug/ml	9159382	Chrysene-d12	3273507

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	72.00
3	Hexadecanamide	106565	000629-54-9	56.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	56.00
5	Octanamide	20317	000629-01-6	56.00



Library Search Compound Report

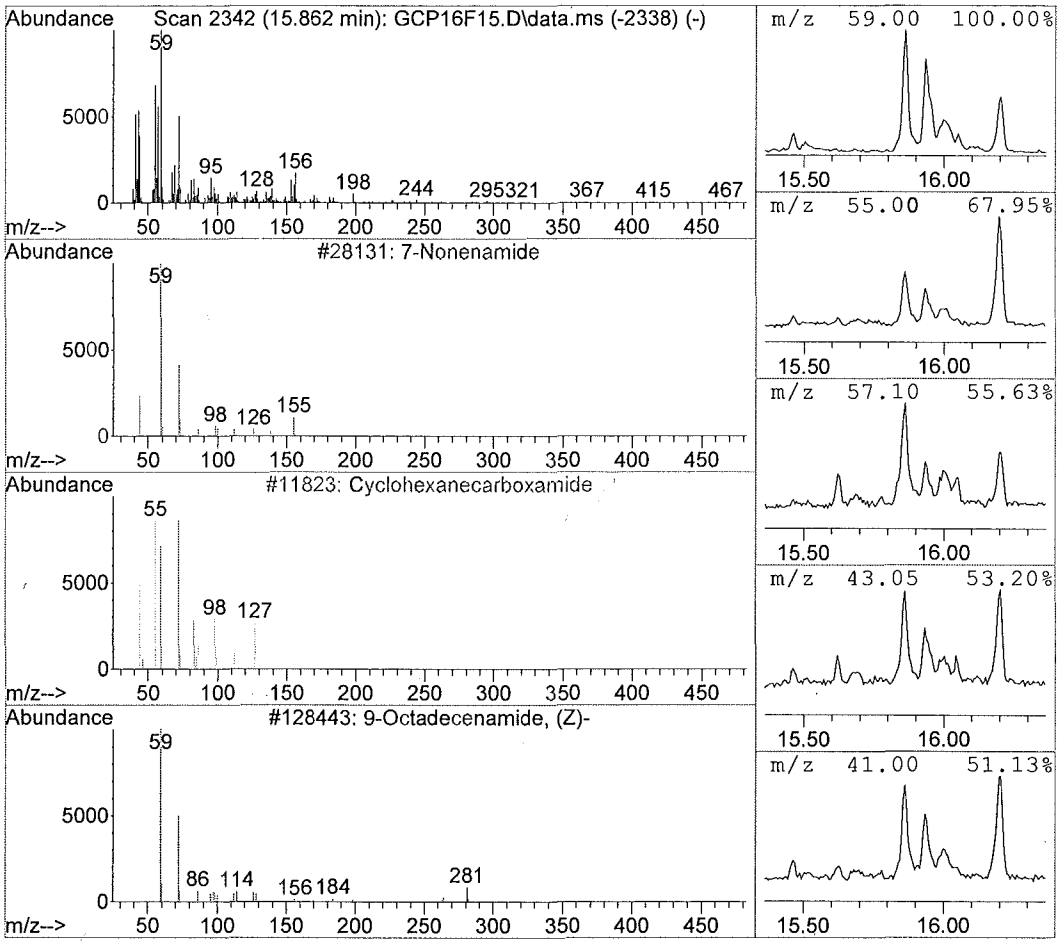
Data File : R:\G\2015\JUL15\10JUL15\GCP16F15.D
Acq On : 07/10/2015 18:41
Sample : 1515542015 F9M33
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 13
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	3.79 ug/ml	620045	Chrysene-d12	3273507

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	7-Nonenamide	28131	090949-53-4	70.00
2	Cyclohexanecarboxamide	11823	001122-56-1	55.00
3	9-Octadecenamide, (Z)-	128443	000301-02-0	52.00
4	Tetradecanamide	83608	000638-58-4	50.00
5	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	49.00



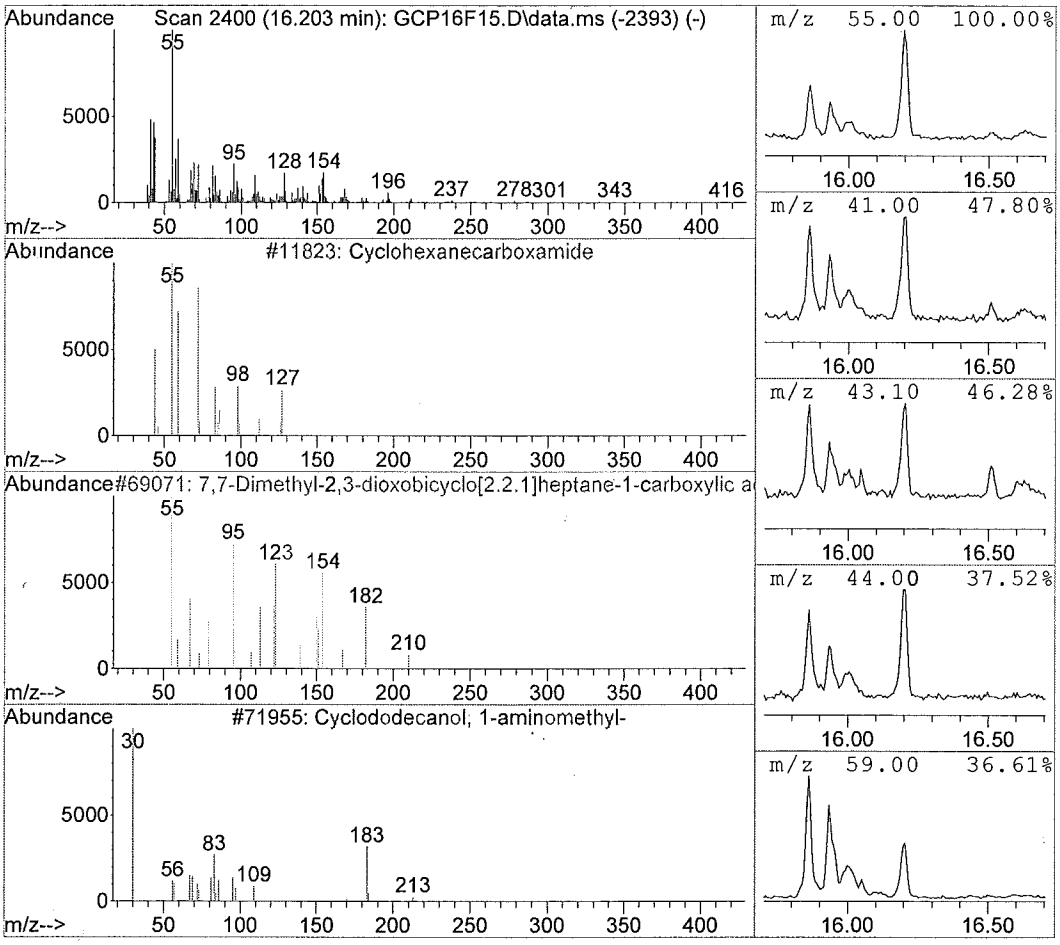
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP16F15.D Vial: 13
Acq On : 07/10/2015 18:41 Operator: TJM
Sample : 1515542015 F9M33 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	5.83 ug/ml	953603	Chrysene-d12	3273507

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexanecarboxamide	11823	001122-56-1	10.00
2	7,7-Dimethyl-2,3-dioxobicyclo[2.2.1	69071	040724-68-3	10.00
3	Cyclododecanol, 1-aminomethyl-	71955	000832-29-1	10.00
4	5-Octen-2-ol, 5-methyl-	19991	118989-20-1	10.00
5	2,2-Dimethylhex-4-enylamine	11896	133885-74-2	10.00



Library Search Compound Report

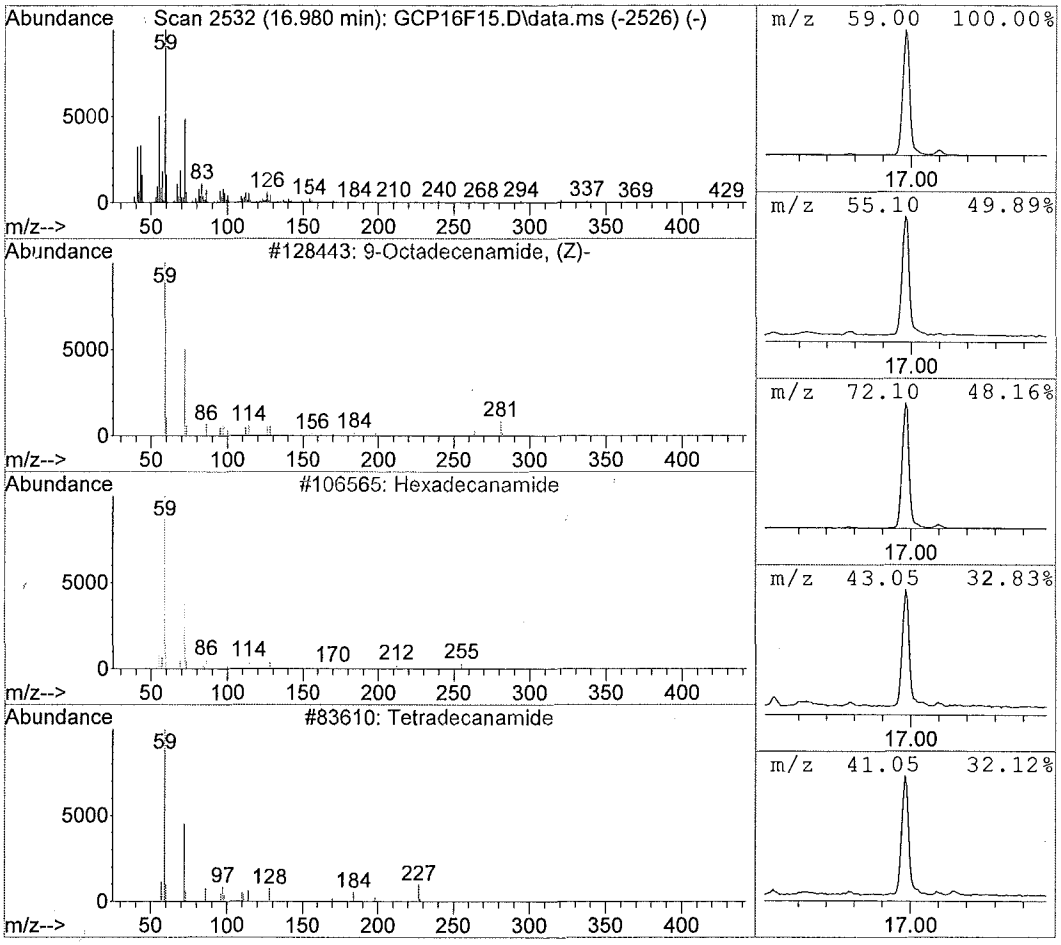
Data File : R:\G\2015\JUL15\10JUL15\GCP16F15.D
Acq On : 07/10/2015 18:41
Sample : 1515542015 F9M33
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 13
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	37.03 ug/ml	4295011	Perylene-d12	2319780

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	90.00
2	Hexadecanamide	106565	000629-54-9	64.00
3	Tetradecanamide	83610	000638-58-4	56.00
4	13-Docosenamide, (Z)-	174695	000112-84-5	56.00
5	Nonanamide	29478	001120-07-6	53.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M34

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GCP17F16

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

% Moisture: 18. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	210	U
108-95-2	Phenol	210	U
111-44-4	Bis(2-chloroethyl)ether	210	U
95-57-8	2-Chlorophenol	210	U
95-48-7	2-Methylphenol	210	U
108-60-1	2,2'-Oxybis(1-chloropropane)	210	U
98-86-2	Acetophenone	210	U
106-44-5	4-Methylphenol	210	U
621-64-7	N-Nitroso-di-n-propylamine	210	U
67-72-1	Hexachloroethane	210	U
98-95-3	Nitrobenzene	210	U
78-59-1	Isophorone	210	U
88-75-5	2-Nitrophenol	210	U
105-67-9	2,4-Dimethylphenol	210	U
111-91-1	Bis(2-chloroethoxy)methane	210	U
120-83-2	2,4-Dichlorophenol	210	U
91-20-3	Naphthalene	210	U
106-47-8	4-Chloroaniline	210	U
87-68-3	Hexachlorobutadiene	210	U
105-60-2	Caprolactam	210	U
59-50-7	4-Chloro-3-methylphenol	210	U
91-57-6	2-Methylnaphthalene	210	U
77-47-4	Hexachlorocyclopentadiene	210	U
88-06-2	2,4,6-Trichlorophenol	210	U
95-95-4	2,4,5-Trichlorophenol	210	U
92-52-4	1,1'-Biphenyl	210	U
91-58-7	2-Chloronaphthalene	210	U
88-74-4	2-Nitroaniline	400	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	400	U
83-32-9	Acenaphthene	210	U

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

EPA SAMPLE NO.

F9M34

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GCP17F16

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

% Moisture: 18. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

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	400	U
100-02-7	4-Nitrophenol	400	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	400	U
534-52-1	4,6-Dinitro-2-methylphenol	400	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	400	U
85-01-8	Phenanthrene	37.	J
120-12-7	Anthracene	210	U
86-74-8	Carbazole	210	U
84-74-2	Di-n-butylphthalate	20.	J
206-44-0	Fluoranthene	58.	J
129-00-0	Pyrene	57.	J
85-68-7	Butylbenzylphthalate	210	U
91-94-1	3,3'-Dichlorobenzidine	210	U
56-55-3	Benzo(a)anthracene	35.	J
218-01-9	Chrysene	44.	J
117-81-7	Bis(2-ethylhexyl)phthalate	150	J
117-84-0	Di-n-octylphthalate	210	U
205-99-2	Benzo(b)fluoranthene	69.	J
207-08-9	Benzo(k)fluoranthene	22.	J
50-32-8	Benzo(a)pyrene	36.	J
193-39-5	Indeno(1,2,3-cd)pyrene	20.	J
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.

F9M34

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GCP17F16

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

% Moisture: 18. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

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 1,3-Dioxolane, 2,2-dimethyl-	2.32	790	J
02		Unknown 2-Pentanone, 4-hydroxy-	3.31	1100	JB
03		Unknown Guanidine	3.53	23000	J
04		Unknown TATP	4.08	520	J
05		Unknown Hexane, 2-bromo-	4.19	250	J
06		Unknown 1H-Pyrrole-2,5-dione	4.27	680	J
07		Unknown Ethanol, 2-(2-ethoxyethoxy)-	4.69	290	J
08		Unknown Propanoic acid, 2-methyl-, 1-methylethyl	5.10	500	J
09	57-10-3	n-Hexadecanoic acid	12.66	450	JN
10		Unknown 1(2H)-Dibenzofuranone, 3,4-dihydro-8-met	13.00	280	J
11	1120-16-7	Dodecanamide	14.16	490	JN
12		Unknown 1,4-Benzenedicarboxylic acid, bis(2-hydr	14.37	230	J
13	301-02-0	9-Octadecenamide, (Z)-	15.08	2800	JNB
14	1120-16-7	Dodecanamide	15.17	150	JN
15		Unknown Tetradecanamide	15.86	280	J
16		Unknown 6-Nitroundec-5-ene	16.20	300	J
17	124-26-5	Octadecanamide	16.99	680	JN
18		Unknown Phthalic anhydride	18.64	4700	J
19	95008-11-0	10-Heneicosene (c,t)	19.50	270	JN
20		Unknown 2-Heptadecanone	21.40	2000	J
21	83-47-6	.gamma.-Sitosterol	22.32	880	JN
22		Unknown Phthalic anhydride	23.34	3200	J
23		Unknown 9,19-Cyclolanost-25-en-3-ol, 24-methyl-,	23.74	790	J
24		Unknown Stearic acid hydrazide	24.77	1500	J
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	5200	J

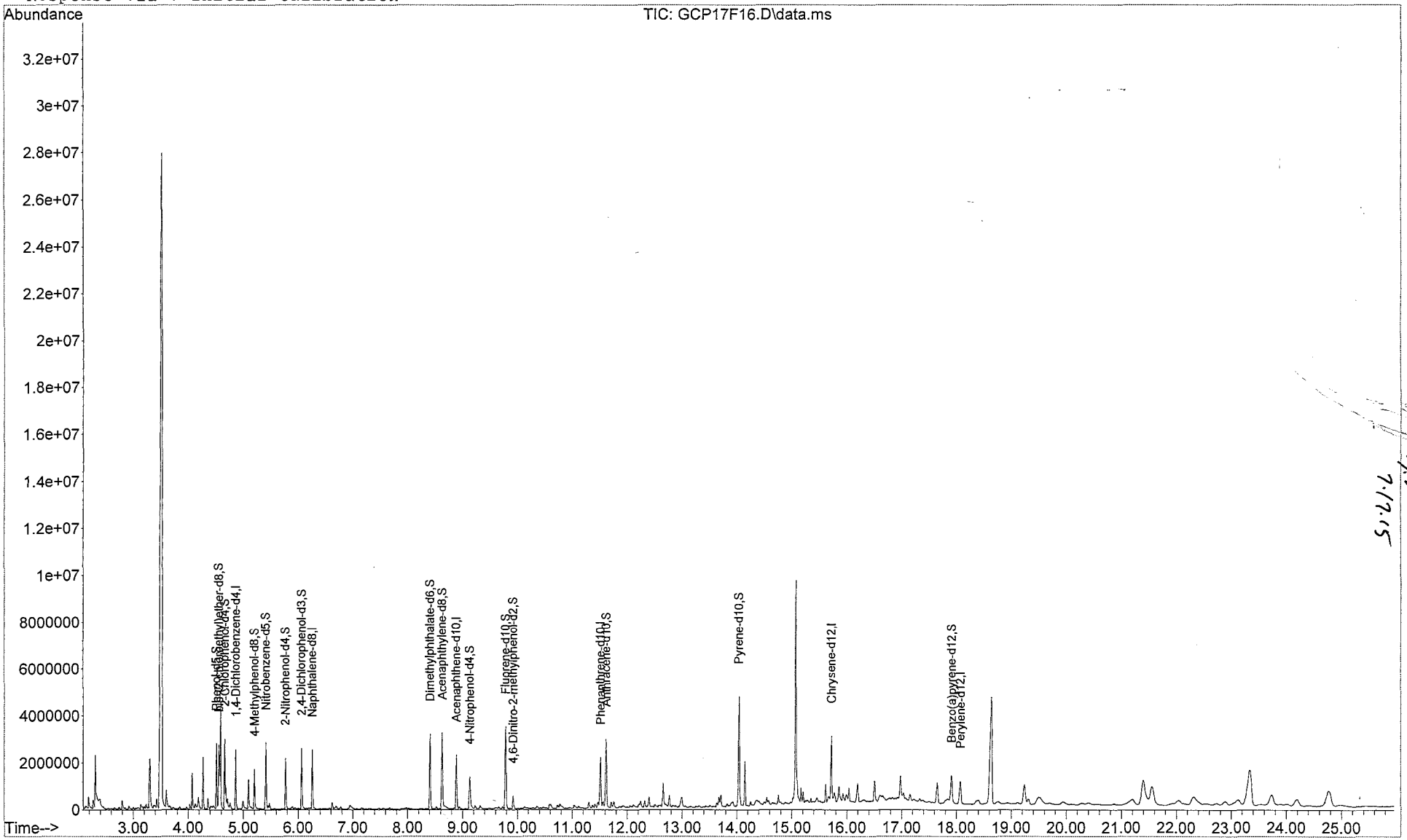
[2] EPA-designated Registry Number.

Quantitation Report

Data File : R:\G\2015\JUL15\10JUL15\GCP17F16.D Vial: 14
Acq On : 07/10/2015 19:14 Operator: TJM
Sample : 1515542016 F9M34 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jul 17 09:34:13 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\10JUL15\GCP17F16.D Vial: 14
Acq On : 07/10/2015 19:14 Operator: TJM
Sample : 1515542016 F9M34 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 17 09:34:13 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	324879	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1204004	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	687583	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1156451	20.00 ug/ml
73) Chrysene-d12	15.73	240	1128160	20.00 ug/ml
81) Perylene-d12	18.07	264	680481	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.52	99	839053	29.678ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	602592	27.351ug/mL
7) 2-Chlorophenol-d4	4.67	132	684799	28.688ug/ml
13) 4-Methylphenol-d8	5.21	113	321211	16.987ug/mL
17) Nitrobenzene-d5	5.42	128	314820	29.765ug/ml
21) 2-Nitrophenol-d4	5.77	143	334457	29.916ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	533226	30.631ug/mL
28) 4-Chloroaniline-d4	6.36	131	1642	0.086ug/mL
42) Dimethylphthalate-d6	8.42	166	1556955	36.111ug/mL
45) Acenaphthylene-d8	8.63	160	1892127	32.292ug/mL
50) 4-Nitrophenol-d4	9.14	143	287308	32.664ug/mL
57) Fluorene-d10	9.79	176	1306247	35.476ug/mL
61) 4,6-Dinitro-2-methylphenol	9.93	200	85691	10.440ug/mL
69) Anthracene-d10	11.62	188	1703716	27.781ug/mL
75) Pyrene-d10	14.04	212	1918741	34.080ug/mL
86) Benzo(a)pyrene-d12	17.92	264	831527	25.501ug/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

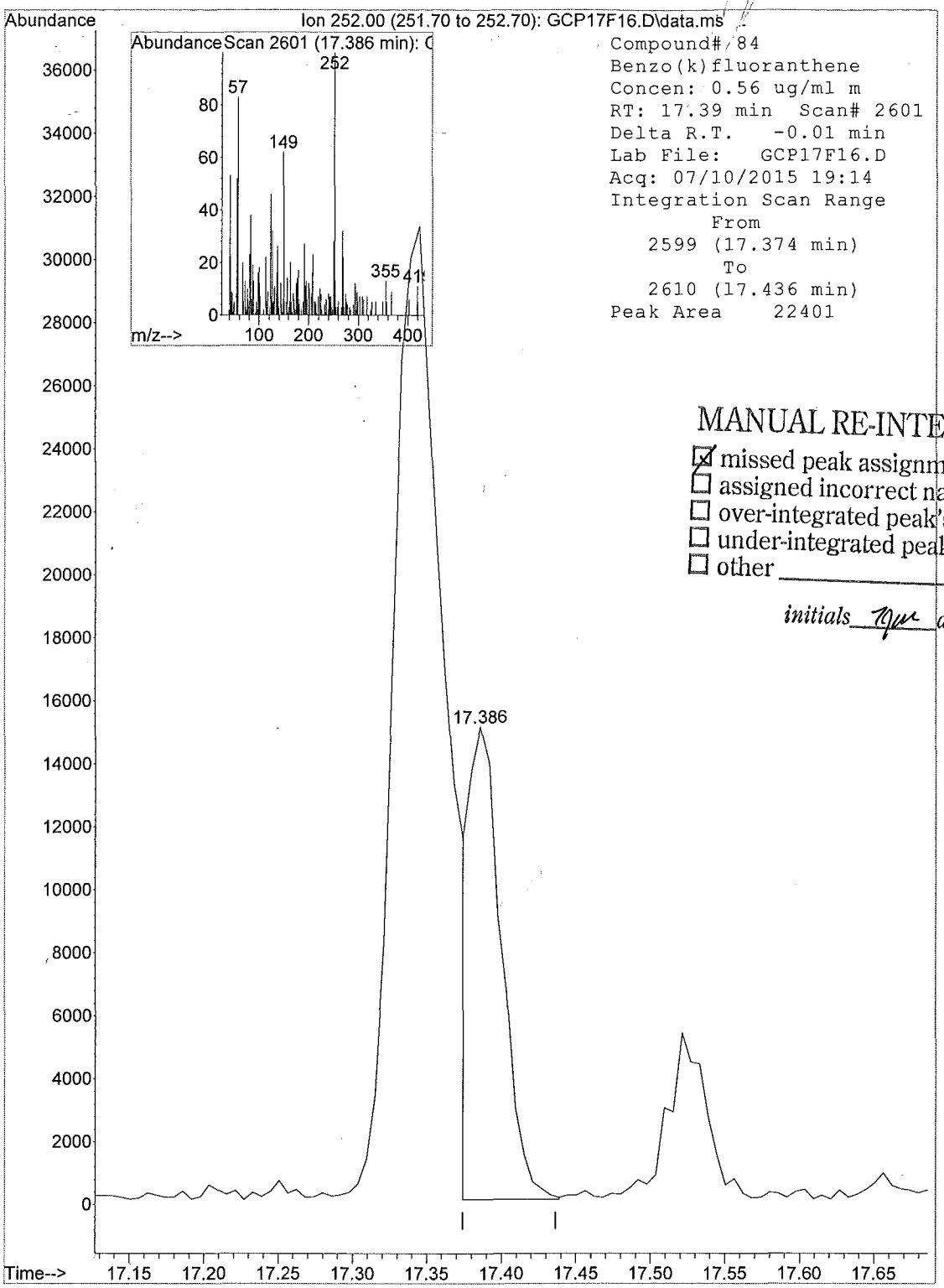
Data File : R:\G\2015\JUL15\10JUL15\GCP17F16.D Vial: 14
Acq On : 07/10/2015 19:14 Operator: TJM
Sample : 1515542016 F9M34 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 17 09:34:13 2015 Results File: GSOM01D6.RES

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	11.56	178	56661	0.919ug/ml	98
68)	Anthracene	0.00	178		Not Detected	
70)	Carbazole	0.00	167		Not Detected	
71)	Di-n-butylphthalate	12.68	149	43213	0.506ug/ml	94
72)	Fluoranthene	13.72	202	98300	1.446ug/ml	99
74)	Pyrene	14.07	202	101821	1.418ug/ml	51
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	15.72	228	59859	0.875ug/ml	86
79)	Chrysene	15.76	228	67513	1.092ug/ml	98
80)	Bis-(2-ethylhexyl)phthalat	15.78	149	202027	3.621ug/ml	94
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	17.34	252	72353	1.698ug/ml	88
84)	Benzo(k)fluoranthene	17.39	252	22401	0.556ug/ml m TJM	87 7.17.15
85)	Benzo(a)pyrene	17.96	252	36188	0.902ug/ml	96
87)	Indeno(1,2,3-c,d)pyrene	20.72	276	17765	0.501ug/ml	71
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)

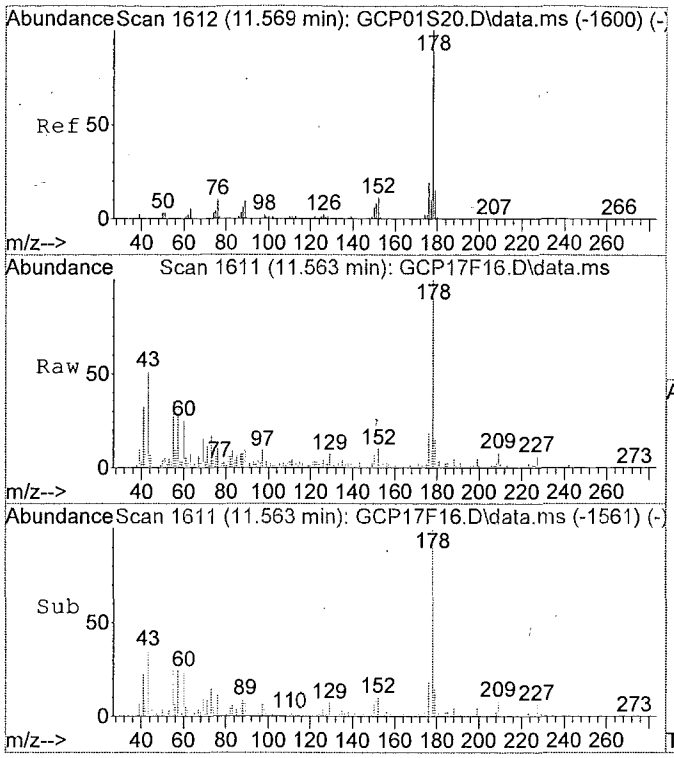
MANUAL INTEGRATION FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- ☒ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

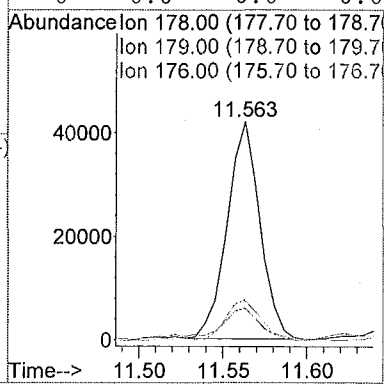
initials TJM *date* 7.17.15

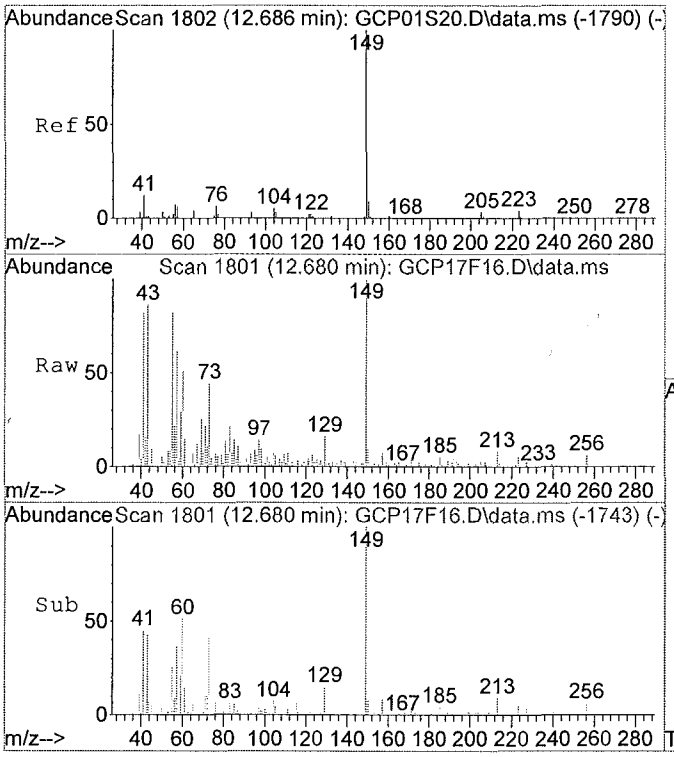


#67
Phenanthrene
Concen: 0.92 ug/ml
RT: 11.56 min Scan# 1611
Delta R.T. -0.01 min
Lab File: GCP17F16.D
Acq: 07/10/2015 19:14

Tgt Ion:178 Resp: 56661

Ion	Ratio	Lower	Upper
178	100		
179	16.1	10.6	19.8
176	19.5	13.2	24.4
0	0.0	0.0	0.0

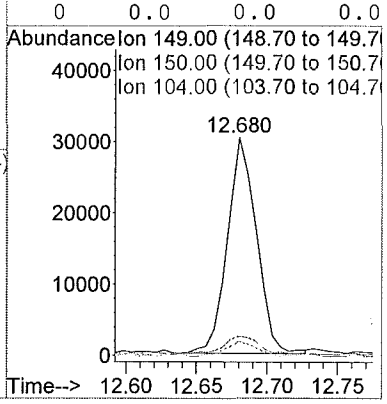


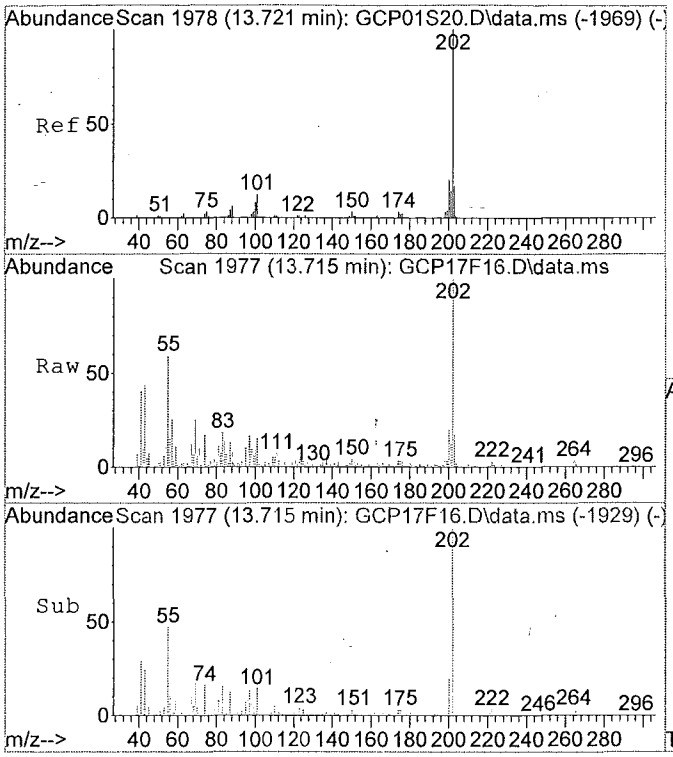


#71
Di-n-butylphthalate
Concen: 0.51 ug/ml
RT: 12.68 min Scan# 1801
Delta R.T. -0.01 min
Lab File: GCP17F16.D
Acq: 07/10/2015 19:14

Tgt Ion:149 Resp: 43213

Ion	Ratio	Lower	Upper
149	100		
150	11.4	6.4	11.8
104	6.5	3.6	6.6
0	0.0	0.0	0.0

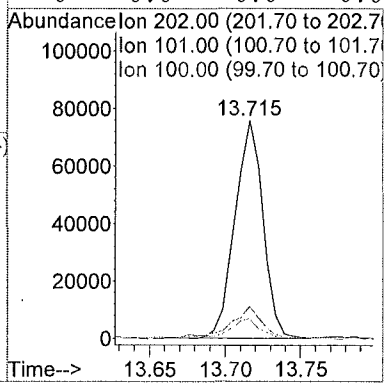


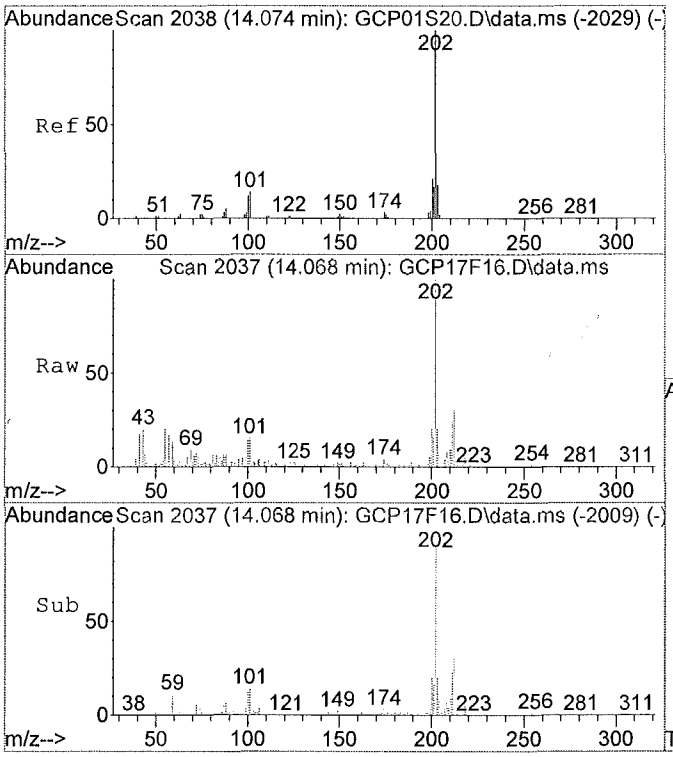


#72
Fluoranthene
Concen: 1.45 ug/ml
RT: 13.72 min Scan# 1977
Delta R.T. -0.01 min
Lab File: GCP17F16.D
Acq: 07/10/2015 19:14

Tgt Ion:202 Resp: 98300

Ion	Ratio	Lower	Upper
202	100		
101	15.1	10.5	19.5
100	10.1	7.4	13.8
0	0.0	0.0	0.0

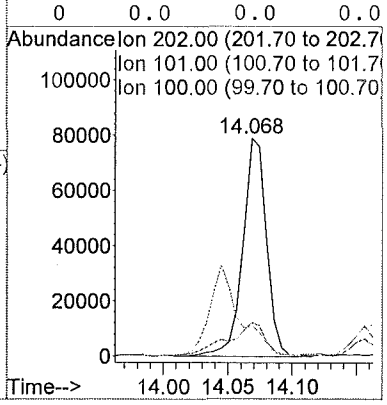


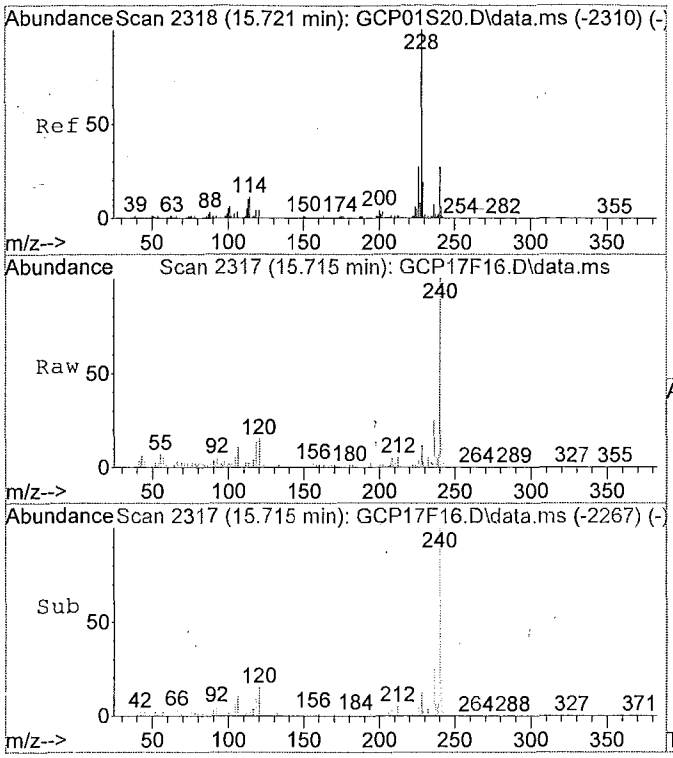


#74
Pyrene
Concen: 1.42 ug/ml
RT: 14.07 min Scan# 2037
Delta R.T. -0.01 min
Lab File: GCP17F16.D
Acq: 07/10/2015 19:14

Tgt Ion:202 Resp: 101821

Ion	Ratio	Lower	Upper
202	100		
101	22.9	12.2	22.7#
100	53.1	10.1	18.7#
0	0.0	0.0	0.0

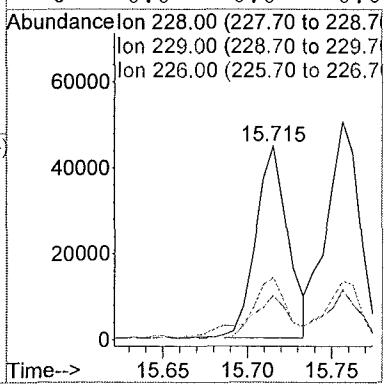


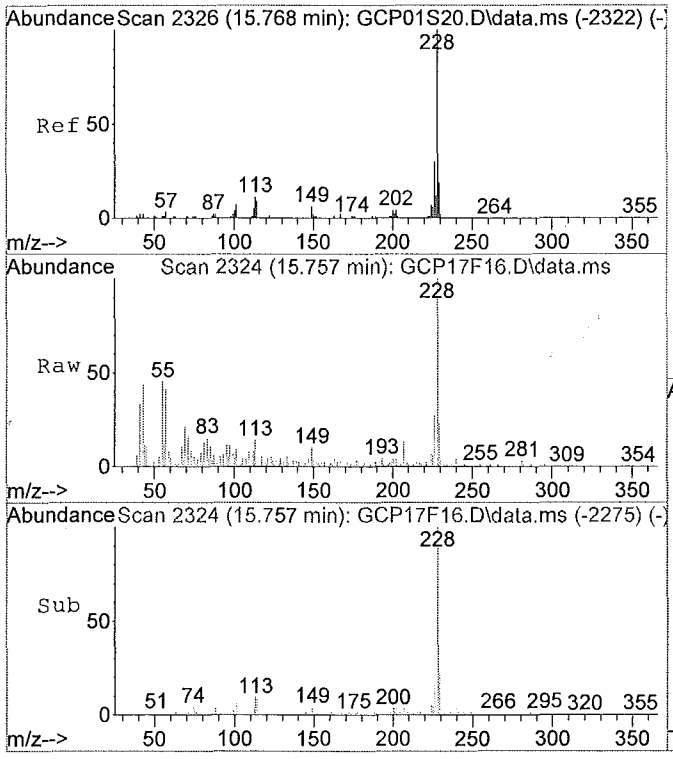


#78
Benzo(a)anthracene
Concen: 0.87 ug/ml
RT: 15.72 min Scan# 2317
Delta R.T. -0.01 min
Lab File: GCP17F16.D
Acq: 07/10/2015 19:14

Tgt Ion:228 Resp: 59859

Ion	Ratio	Lower	Upper
228	100		
229	27.7	13.7	25.5#
226	31.5	18.2	33.8
0	0.0	0.0	0.0

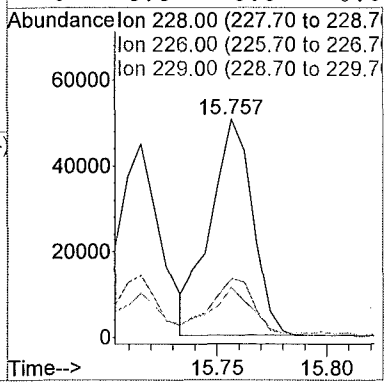


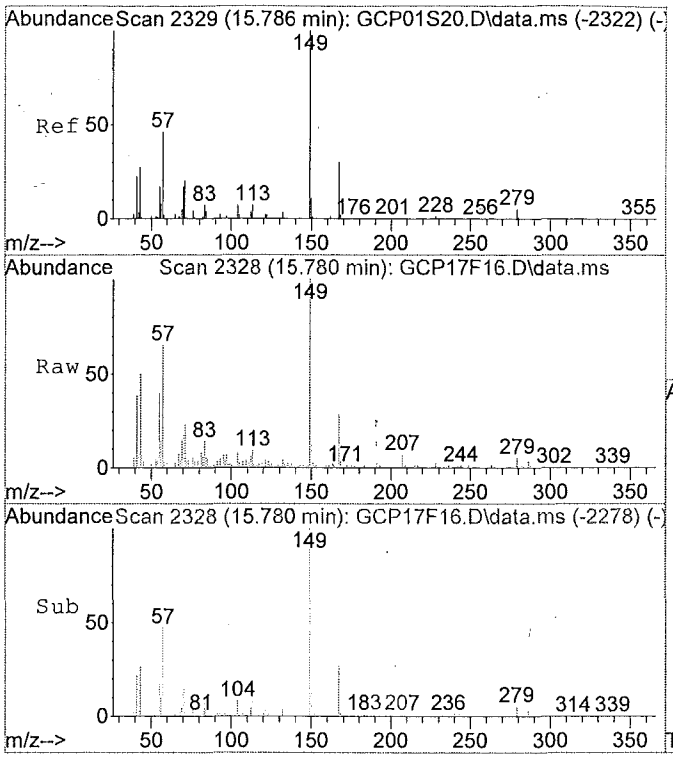


#79
Chrysene
Concen: 1.09 ug/ml
RT: 15.76 min Scan# 2324
Delta R.T. -0.01 min
Lab File: GCP17F16.D
Acq: 07/10/2015 19:14

Tgt Ion:228 Resp: 67513

Ion	Ratio	Lower	Upper
228	100		
226	29.6	20.1	37.3
229	20.7	13.7	25.5
0	0.0	0.0	0.0

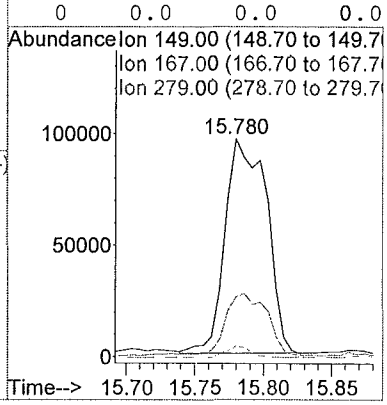


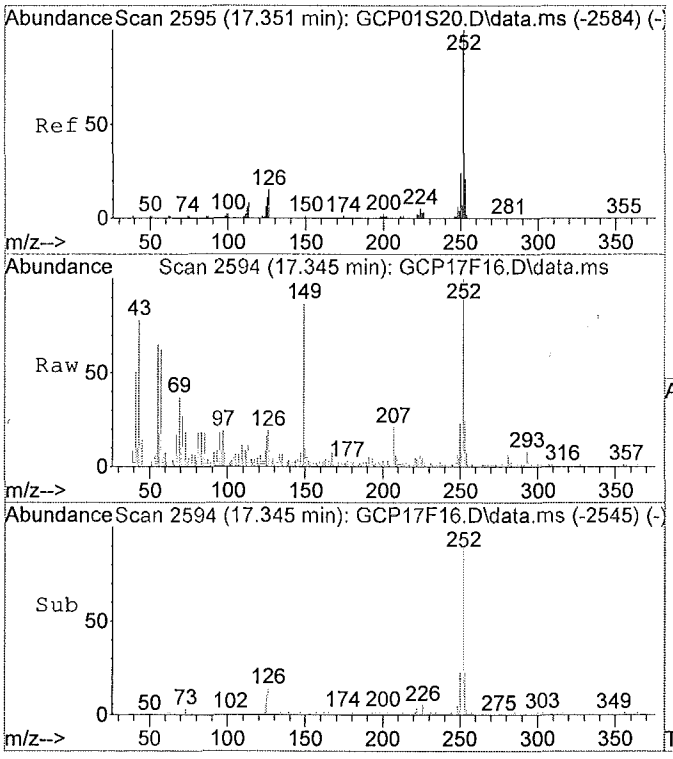


#80
Bis-(2-ethylhexyl)phthalate
Concen: 3.62 ug/ml
RT: 15.78 min Scan# 2328
Delta R.T. -0.01 min
Lab File: GCP17F16.D
Acq: 07/10/2015 19:14

Tgt Ion:149 Resp: 202027

Ion	Ratio	Lower	Upper
149	100		
167	28.7	22.0	40.8
279	2.9	5.0	9.2#
0	0.0	0.0	0.0

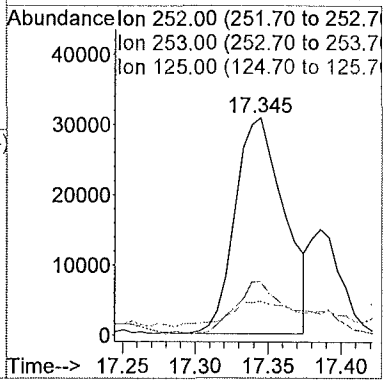


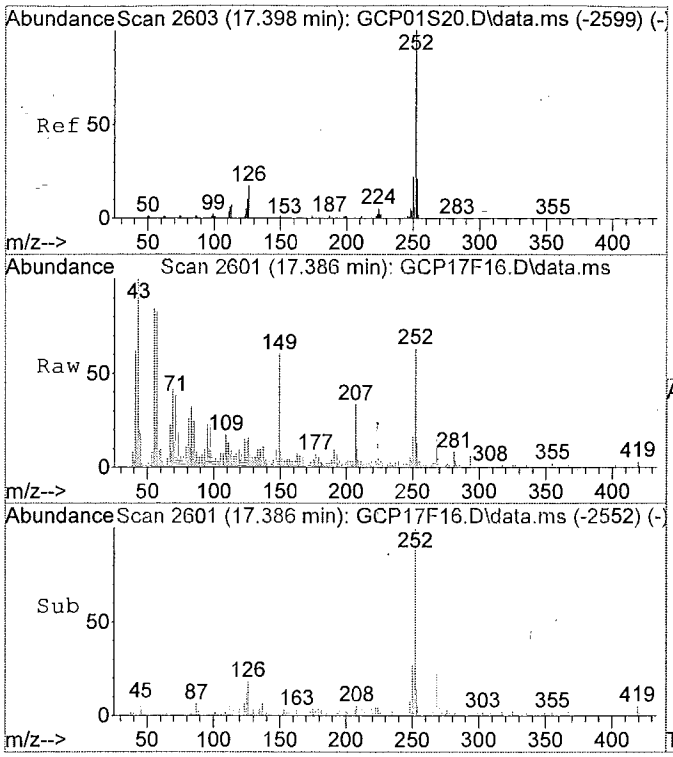


#83
Benzo(b)fluoranthene
Concen: 1.70 ug/ml
RT: 17.34 min Scan# 2594
Delta R.T. -0.01 min
Lab File: GCP17F16.D
Acq: 07/10/2015 19:14

Tgt Ion:252 Resp: 72353

Ion	Ratio	Lower	Upper
252	100		
253	31.5	15.1	28.1#
125	15.1	10.6	19.8
0	0.0	0.0	0.0

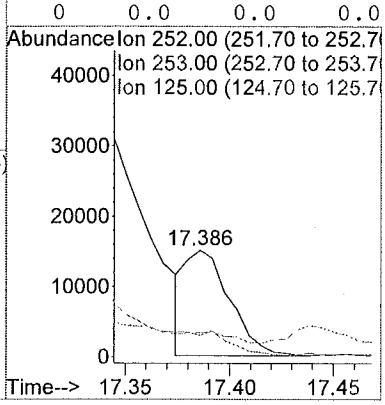


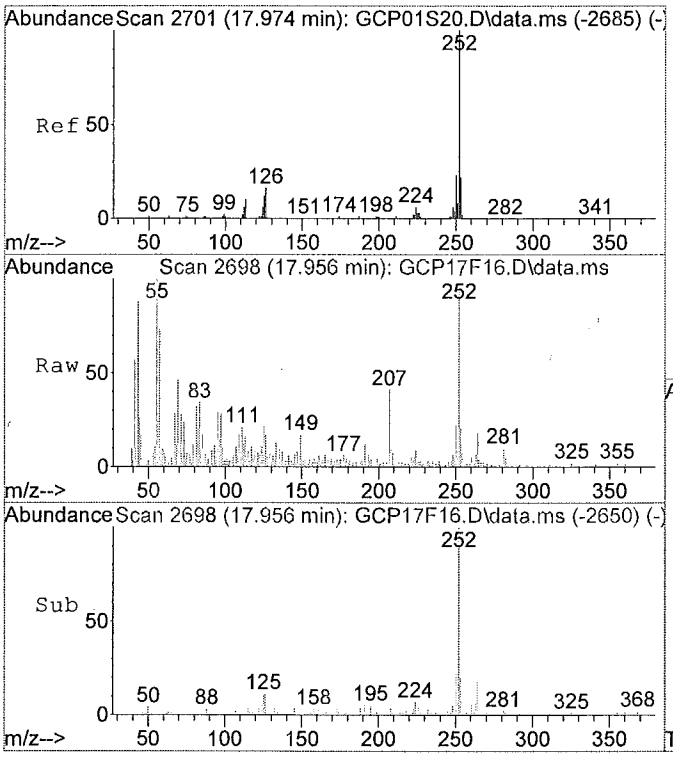


#84
Benzo(k)fluoranthene
Concen: 0.56 ug/ml m
RT: 17.39 min Scan# 2601
Delta R.T. -0.01 min
Lab File: GCP17F16.D
Acq: 07/10/2015 19:14

Tgt Ion:252 Resp: 22401

Ion	Ratio	Lower	Upper
252	100		
253	102.0	15.1	28.1#
125	48.8	10.7	19.9#
0	0.0	0.0	0.0

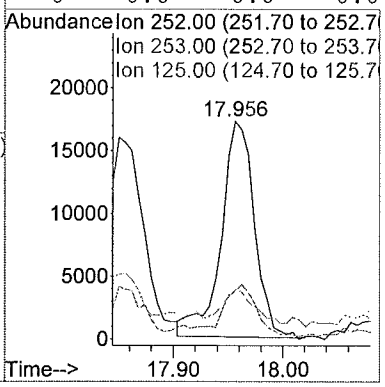


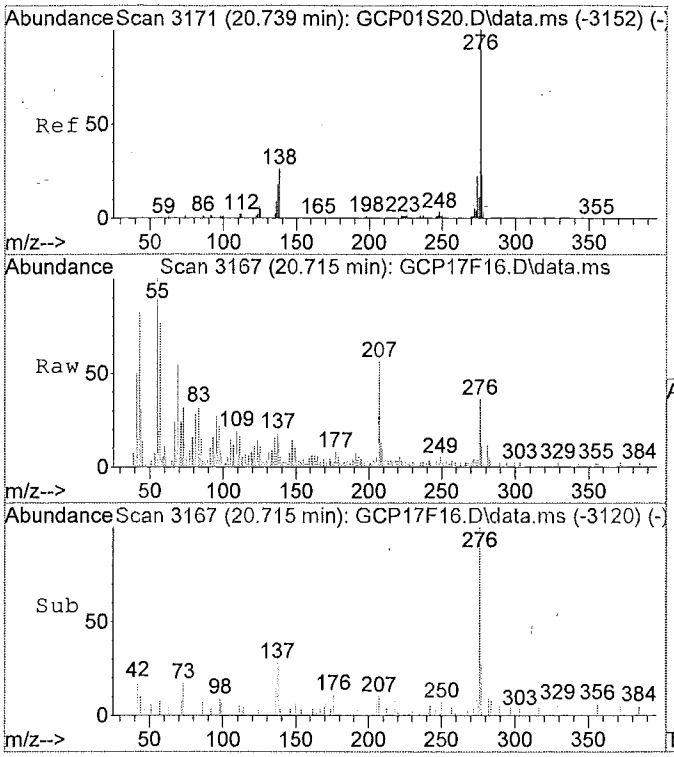


#85
Benzo(a)pyrene
Concen: 0.90 ug/ml
RT: 17.96 min Scan# 2698
Delta R.T. -0.02 min
Lab File: GCP17F16.D
Acq: 07/10/2015 19:14

Tgt Ion:252 Resp: 36188

Ion	Ratio	Lower	Upper
252	100		
253	22.9	15.2	28.2
125	14.6	11.8	21.8
0	0.0	0.0	0.0

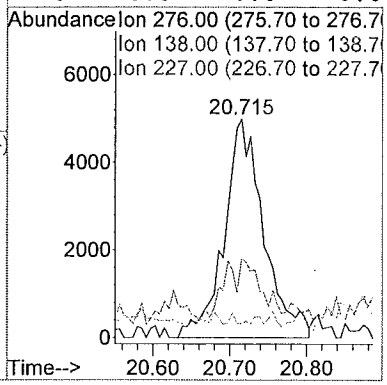




#87
Indeno(1,2,3-c,d)pyrene
Concen: 0.50 ug/ml
RT: 20.72 min Scan# 3167
Delta R.T. -0.02 min
Lab File: GCP17F16.D
Acq: 07/10/2015 19:14

Tgt Ion:276 Resp: 17765

Ion	Ratio	Lower	Upper
276	100		
138	15.9	22.3	41.5#
227	0.6	0.1	0.1#
0	0.0	0.0	0.0



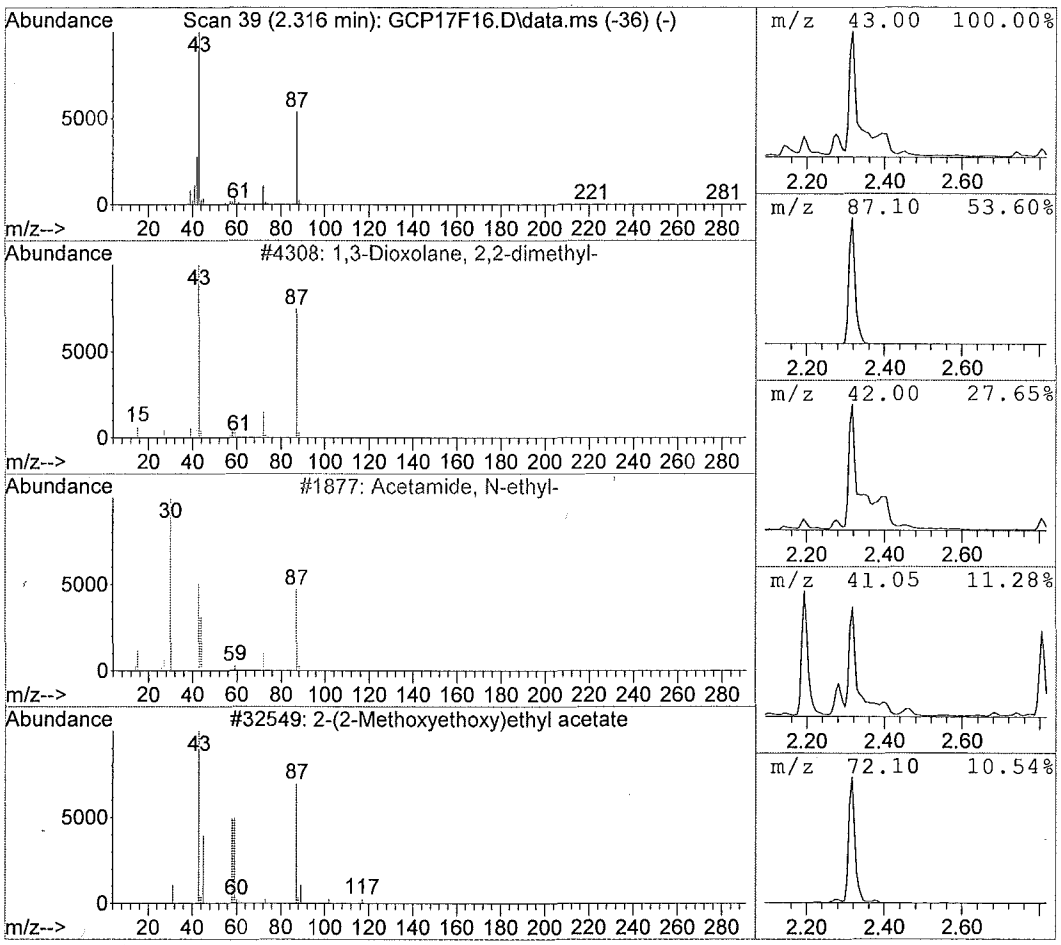
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP17F16.D Vial: 14
Acq On : 07/10/2015 19:14 Operator: TJM
Sample : 1515542016 F9M34 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
2.32	19.68 ug/ml	2324641	1,4-Dichlorobenzene-d4	2362956

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,3-Dioxolane, 2,2-dimethyl-	4308	002916-31-6	64.00
2	Acetamide, N-ethyl-	1877	000625-50-3	40.00
3	2-(2-Methoxyethoxy)ethyl acetate	32549	1000351-95-4	33.00
4	Ethanol, 2,2'-[1,2-ethanediylbis(ox	88551	000111-21-7	25.00
5	2-Propanone, O-methyloxime	1895	003376-35-0	25.00



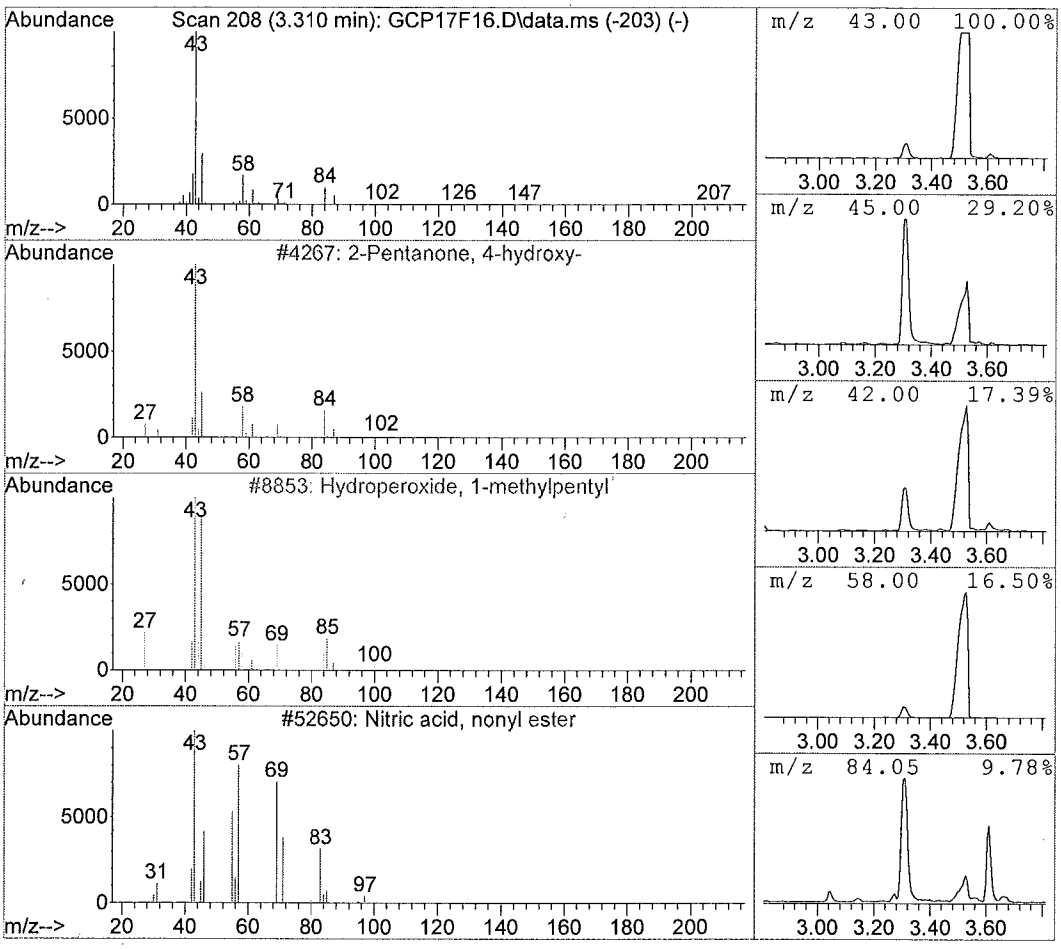
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP17F16.D Vial: 14
Acq On : 07/10/2015 19:14 Operator: TJM
Sample : 1515542016 F9M34 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
3.31	26.64 ug/ml	3147190	1,4-Dichlorobenzene-d4	2362956

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	56.00
2	Hydroperoxide, 1-methylpentyl	8853	024254-55-5	33.00
3	Nitric acid, nonyl ester	52650	020633-13-0	9.00
4	O-Methylisourea	774	002440-60-0	9.00
5	2,3-Epoxybutane	677	003266-23-7	9.00



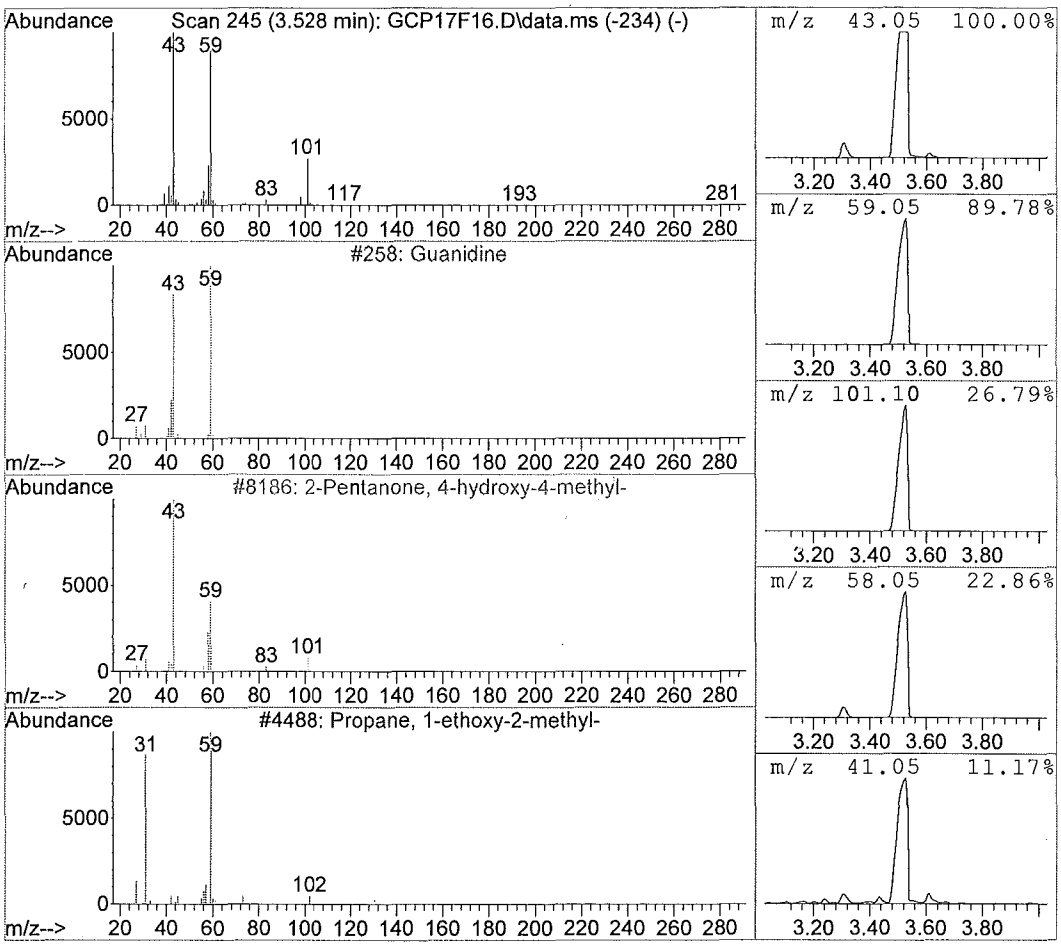
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP17F16.D Vial: 14
Acq On : 07/10/2015 19:14 Operator: TJM
Sample : 1515542016 F9M34 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
3.53	568.98 ug/ml	67223459	1,4-Dichlorobenzene-d4	2362956

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Guanidine	258	000113-00-8	52.00
2	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	50.00
3	Propane, 1-ethoxy-2-methyl-	4488	000627-02-1	37.00
4	2-Hexanol, 2-methyl-	8346	000625-23-0	36.00
5	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	28.00



Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP17F16.D
Acq On : 07/10/2015 19:14
Sample : 1515542016 F9M34
Misc : . SOIL SOM
MS Integration Params: rteint.p

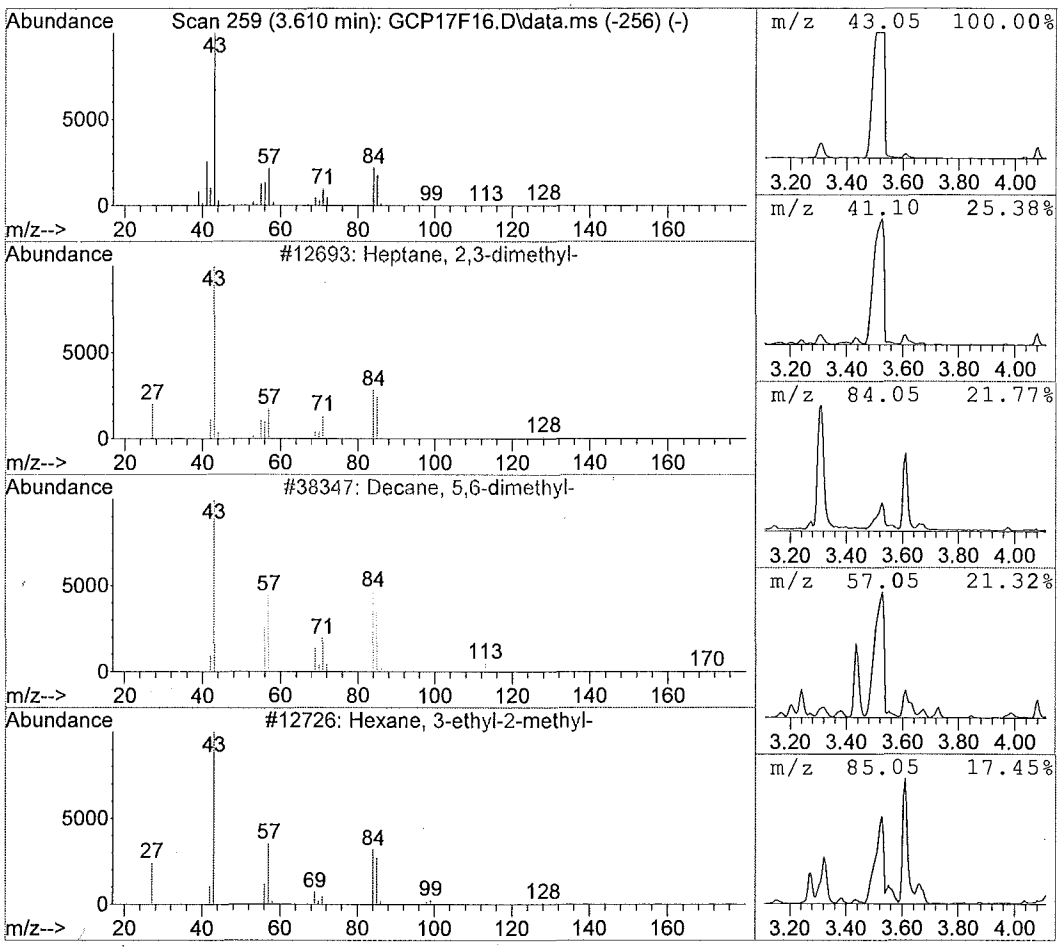
Vial: 14
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

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
3.61	7.72 ug/ml	911672	1,4-Dichlorobenzene-d4	2362956

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12693	003074-71-3	90.00
2	Decane, 5,6-dimethyl-	38347	001636-43-7	83.00
3	Hexane, 3-ethyl-2-methyl-	12726	016789-46-1	64.00
4	Nonane, 5-methyl-	19165	015869-85-9	59.00
5	Octane, 3,4-dimethyl-	19179	015869-92-8	50.00

BA



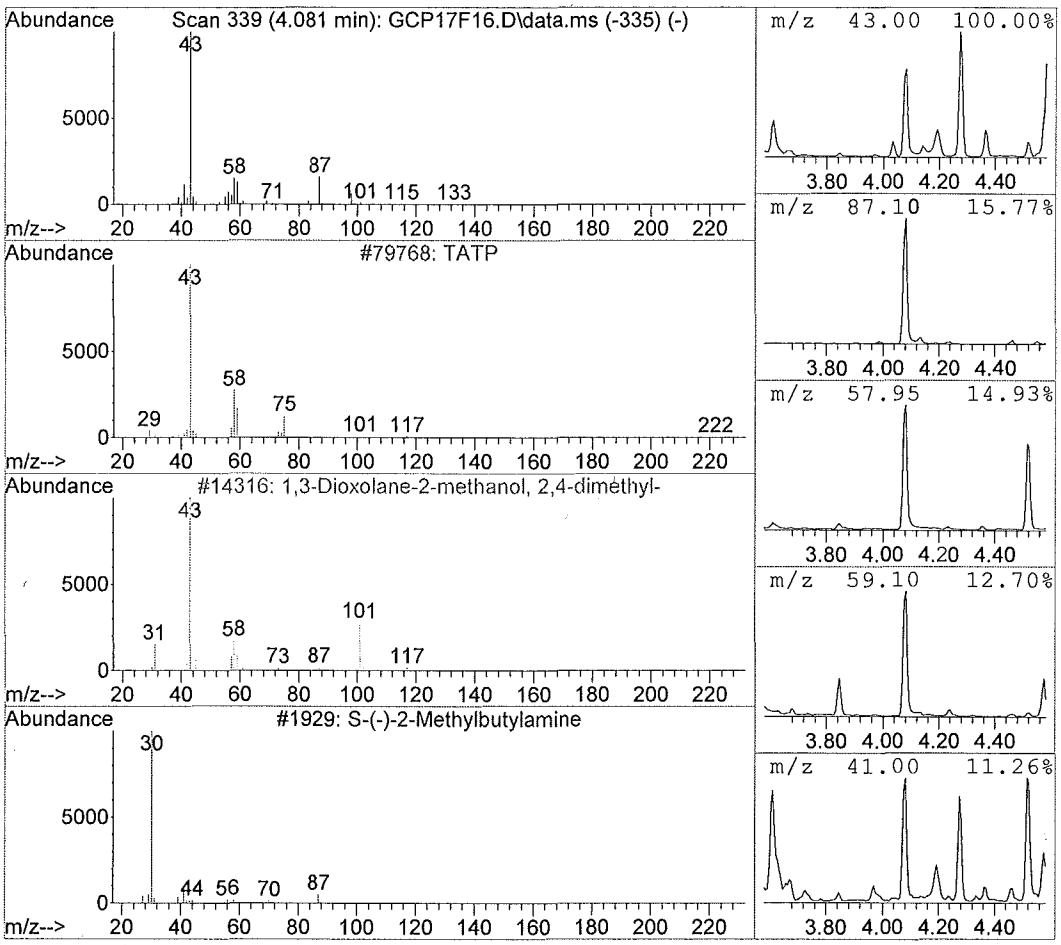
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP17F16.D Vial: 14
Acq On : 07/10/2015 19:14 Operator: TJM
Sample : 1515542016 F9M34 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
4.08	12.92 ug/ml	1526614	1,4-Dichlorobenzene-d4	2362956

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	TATP	79768	017088-37-8	50.00
2	1,3-Dioxolane-2-methanol, 2,4-dimet	14316	053951-43-2	33.00
3	S-(-)-2-Methylbutylamine	1929	020626-52-2	9.00
4	1-Pentanamine	1907	000110-58-7	9.00
5	1-Butanamine, 2-methyl-	1912	000096-15-1	9.00



Library Search Compound Report

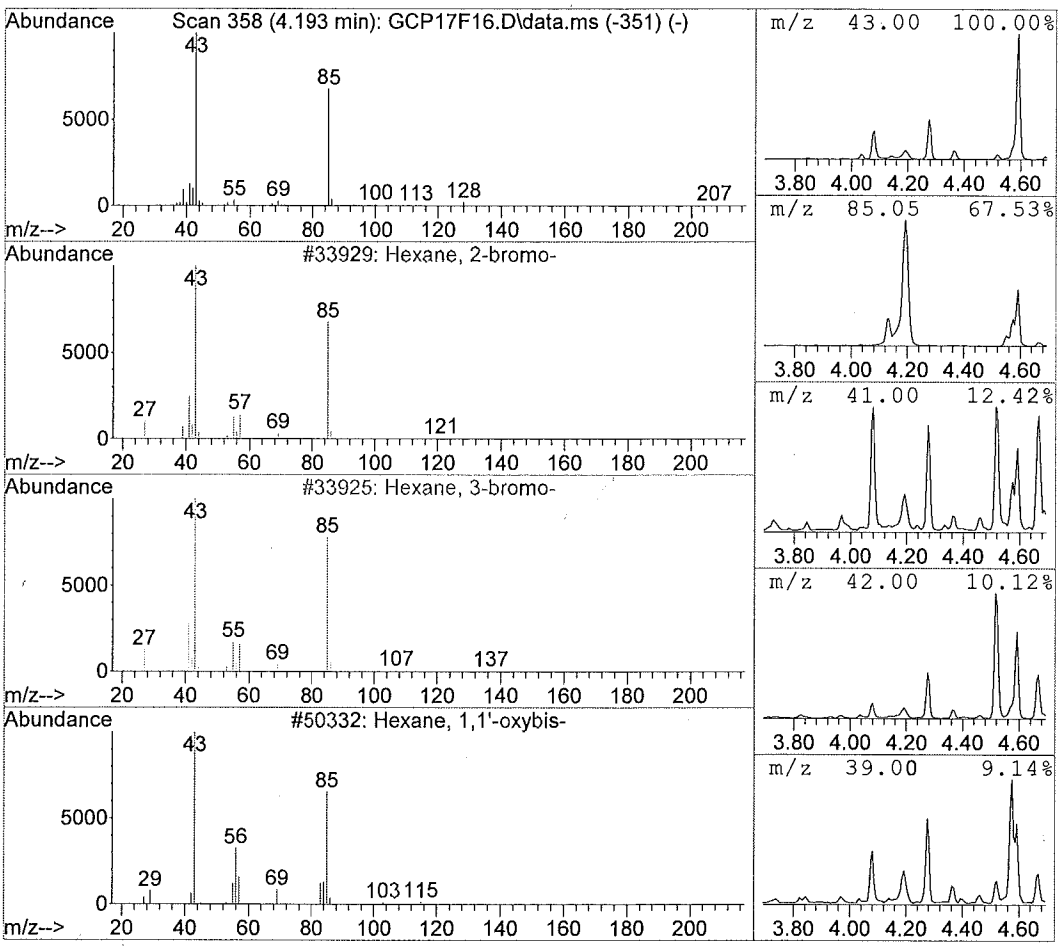
Data File : R:\G\2015\JUL15\10JUL15\GCP17F16.D
Acq On : 07/10/2015 19:14
Sample : 1515542016 F9M34
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 14
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
4.19	6.10 ug/ml	720978	1,4-Dichlorobenzene-d4	2362956

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2-bromo-	33929	003377-86-4	56.00
2	Hexane, 3-bromo-	33925	003377-87-5	56.00
3	Hexane, 1,1'-oxybis-	50332	000112-58-3	56.00
4	5-Iodopentan-2-one	71474	003695-29-2	40.00
5	Oxalic acid, diisohexyl ester	108826	1000309-32-9	39.00



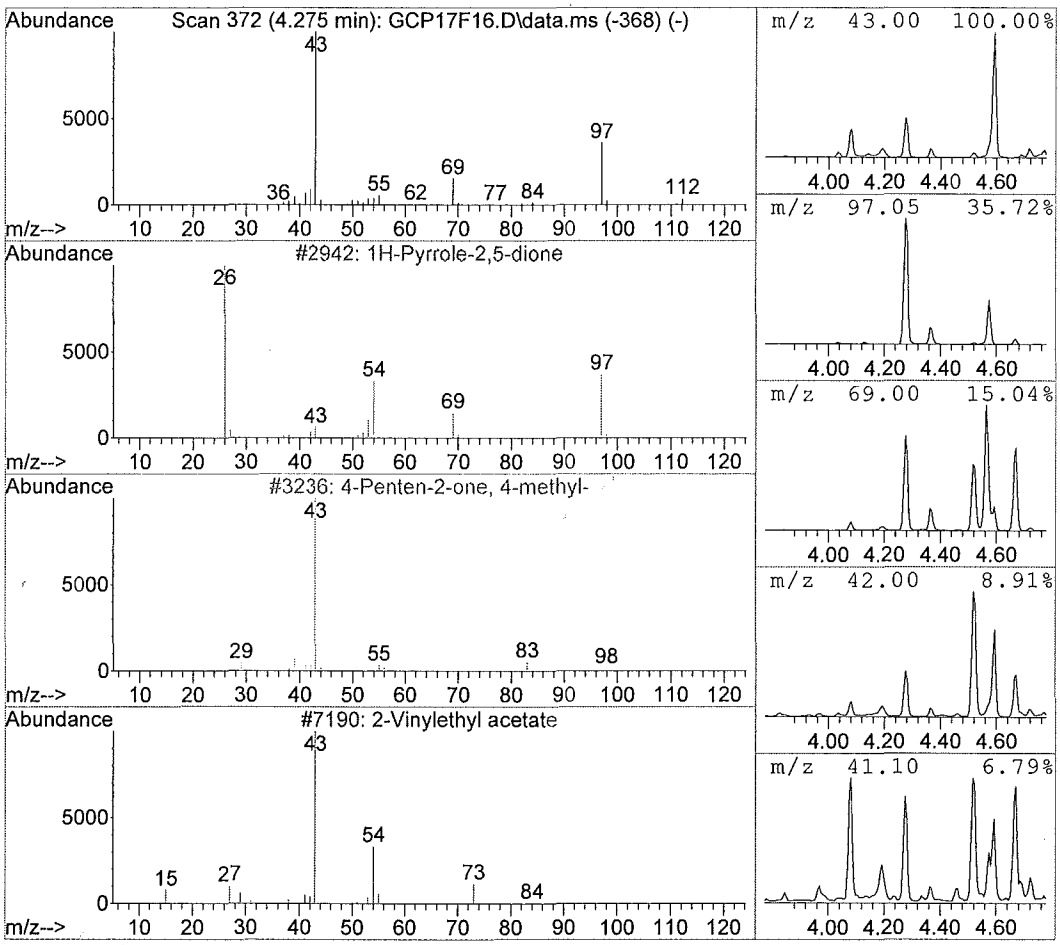
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP17F16.D Vial: 14
Acq On : 07/10/2015 19:14 Operator: TJM
Sample : 1515542016 F9M34 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	16.74 ug/ml	1977816	1,4-Dichlorobenzene-d4	2362956

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	32.00
2	4-Penten-2-one, 4-methyl-	3236	003744-02-3	9.00
3	2-Vinylethyl acetate	7190	001576-84-7	9.00
4	Methyl 1-methylcyclopropyl ketone	3272	001567-75-5	9.00
5	5-Hexen-2-one	3152	000109-49-9	9.00



Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP17F16.D
Acq On : 07/10/2015 19:14
Sample : 1515542016 F9M34
Misc : . SOIL SOM
MS Integration Params: rteint.p

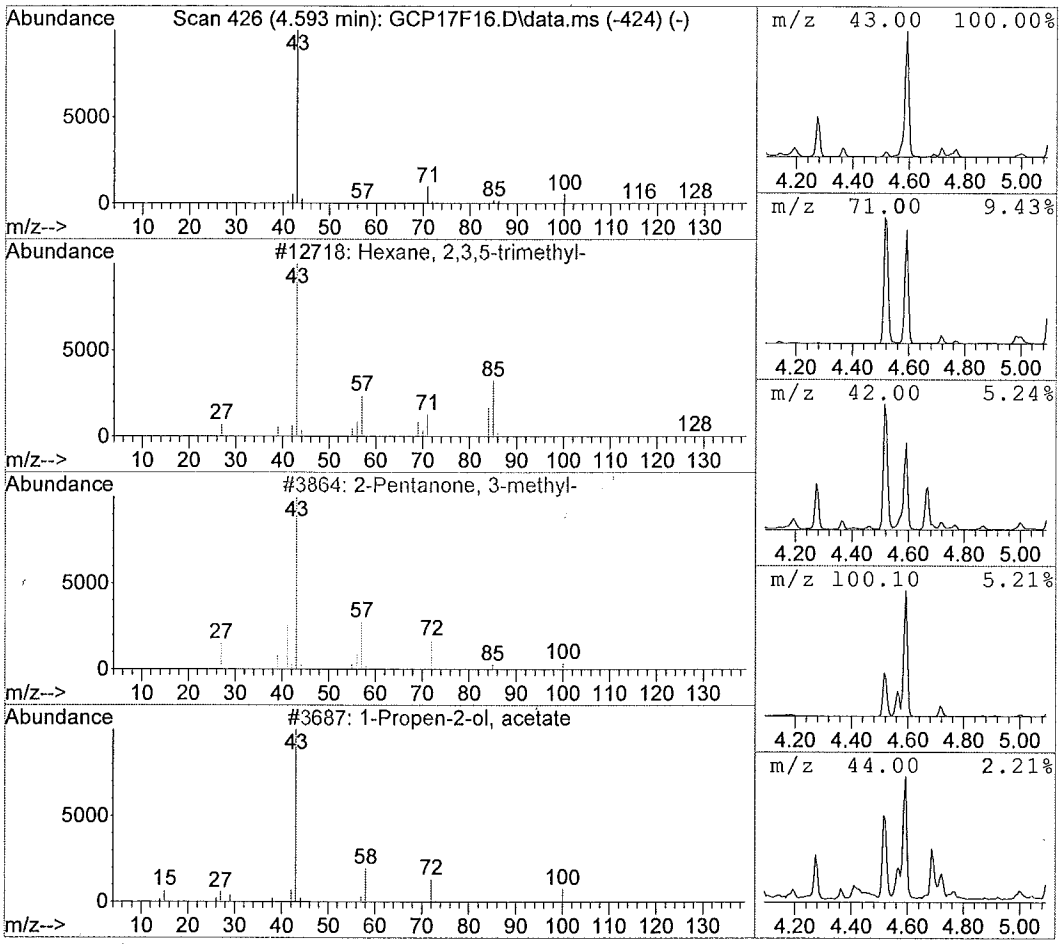
Vial: 14
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

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	30.36 ug/ml	3587363	1,4-Dichlorobenzene-d4	2362956

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	7.00
2	2-Pentanone, 3-methyl-	3864	000565-61-7	5.00
3	1-Propen-2-ol, acetate	3687	000108-22-5	5.00
4	Heptane, 2,4-dimethyl-	12695	002213-23-2	5.00
5	Heptane	3971	000142-82-5	5.00

13A



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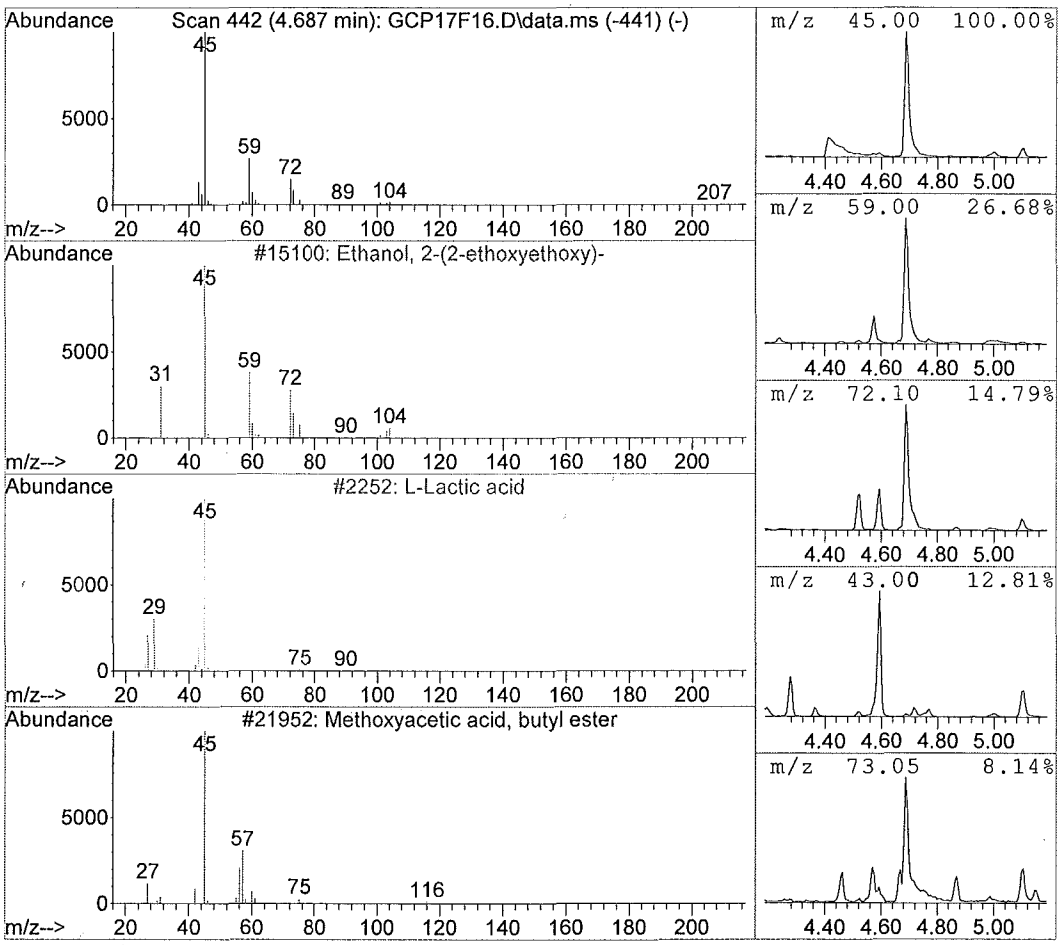
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP17F16.D Vial: 14
Acq On : 07/10/2015 19:14 Operator: TJM
Sample : 1515542016 F9M34 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	7.10 ug/ml	838974	1,4-Dichlorobenzene-d4	2362956

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethanol, 2-(2-ethoxyethoxy)-	15100	000111-90-0	47.00
2	L-Lactic acid	2252	000079-33-4	40.00
3	Methoxyacetic acid, butyl ester	21952	017640-22-1	33.00
4	2-Isopropoxyethylamine	4603	081731-43-3	9.00
5	1-Propanol, 3-mercapto-	2423	019721-22-3	9.00

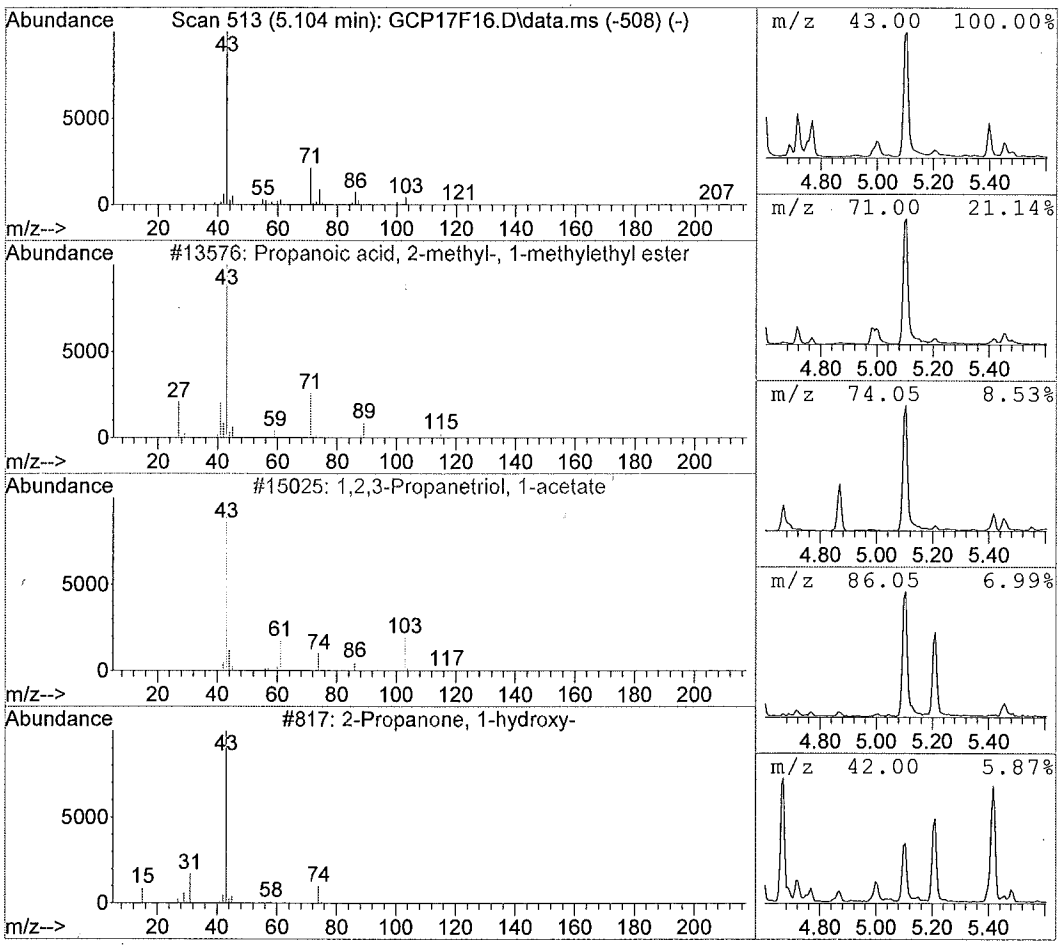


Data File : R:\G\2015\JUL15\10JUL15\GCP17F16.D Vial: 14
Acq On : 07/10/2015 19:14 Operator: TJM
Sample : 1515542016 F9M34 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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
5.10	12.43 ug/ml	1468176	1,4-Dichlorobenzene-d4	2362956

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propanoic acid, 2-methyl-, 1-methyl	13576	000617-50-5	28.00
2	1,2,3-Propanetriol, 1-acetate	15025	000106-61-6	23.00
3	2-Propanone, 1-hydroxy-	817	000116-09-6	22.00
4	Ethanone, 1-oxiranyl-	1669	004401-11-0	10.00
5	Butanal, 2-ethyl-	3806	000097-96-1	9.00



Library Search Compound Report

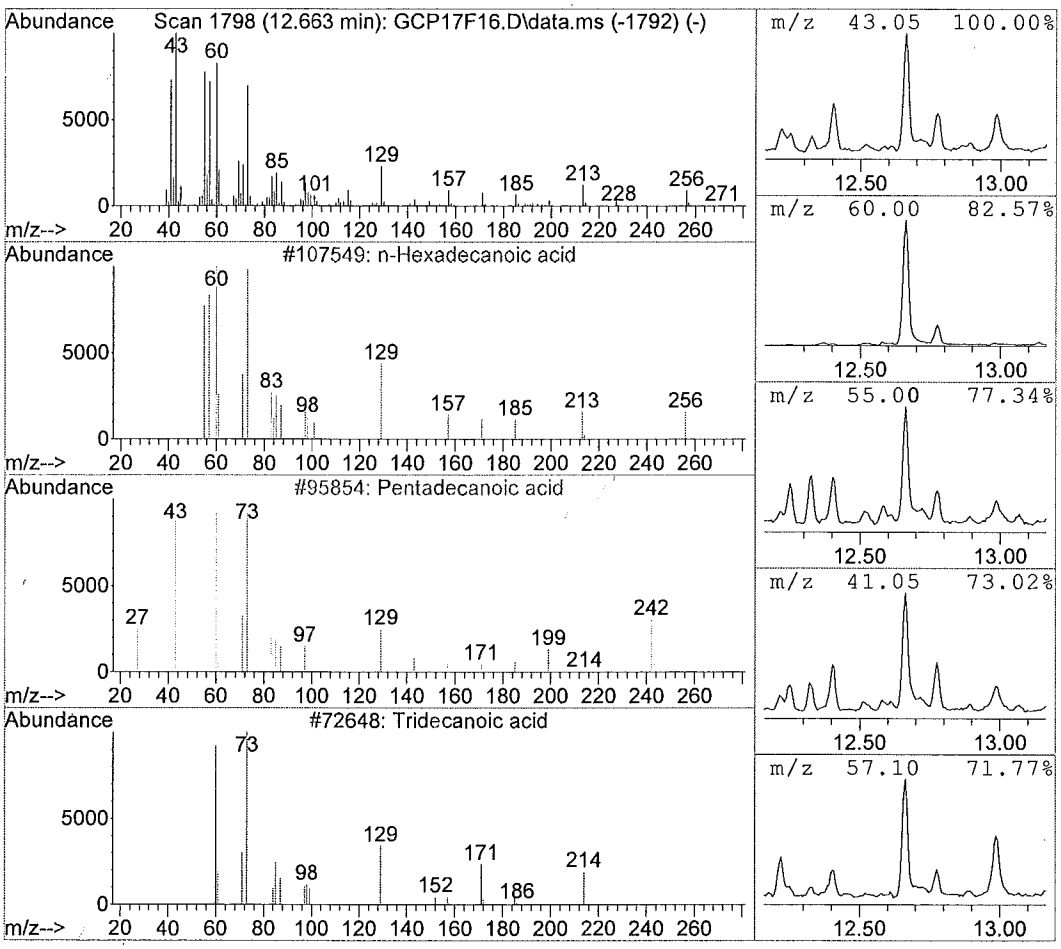
Data File : R:\G\2015\JUL15\10JUL15\GCP17F16.D
Acq On : 07/10/2015 19:14
Sample : 1515542016 F9M34
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 14
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	11.14 ug/ml	1616366	Phenanthrene-d10	2903008

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	n-Hexadecanoic acid	107549	000057-10-3	99.00
2	Pentadecanoic acid	95854	001002-84-2	83.00
3	Tridecanoic acid	72648	000638-53-9	72.00
4	Tetradecanoic acid	84453	000544-63-8	72.00
5	Undecanoic acid	50051	000112-37-8	59.00



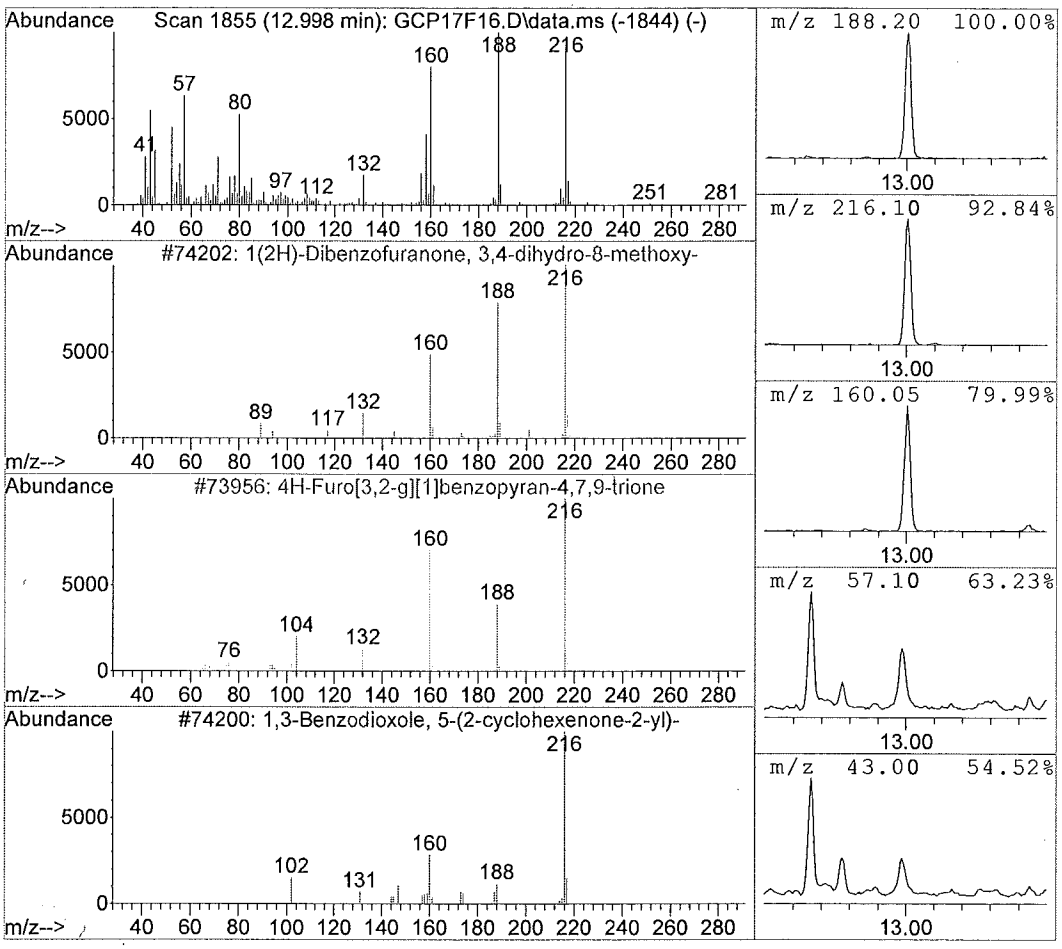
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP17F16.D Vial: 14
Acq On : 07/10/2015 19:14 Operator: TJM
Sample : 1515542016 F9M34 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	7.03 ug/ml	1021055	Phenanthrene-d10	2903008

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1(2H)-Dibenzofuranone, 3,4-dihydro-	74202	095338-40-2	50.00
2	4H-Furo[3,2-g][1]benzopyran-4,7,9-t	73956	000483-36-3	25.00
3	1,3-Benzodioxole, 5-(2-cyclohexenon	74200	042866-84-2	22.00
4	Pyrene, 4-methyl-	74409	003353-12-6	15.00
5	Dibenzothiophene, 1,2,3,4-tetrahydr	51638	016587-33-0	14.00



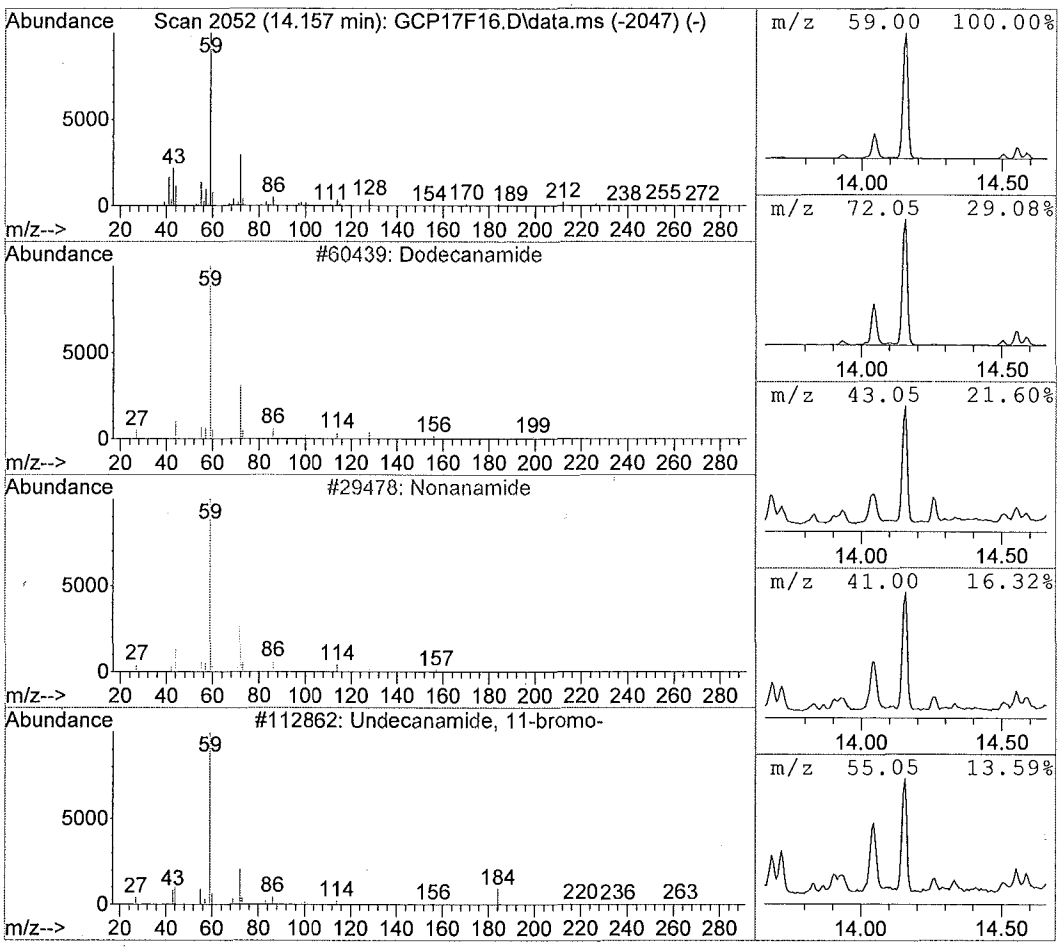
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP17F16.D Vial: 14
Acq On : 07/10/2015 19:14 Operator: TJM
Sample : 1515542016 F9M34 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
14.16	12.18 ug/ml	2218781	Chrysene-d12	3641879

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	90.00
2	Nonanamide	29478	001120-07-6	86.00
3	Undecanamide, 11-bromo-	112862	005875-26-3	78.00
4	Tetradecanamide	83609	000638-58-4	78.00
5	Decanamide-	38977	002319-29-1	74.00



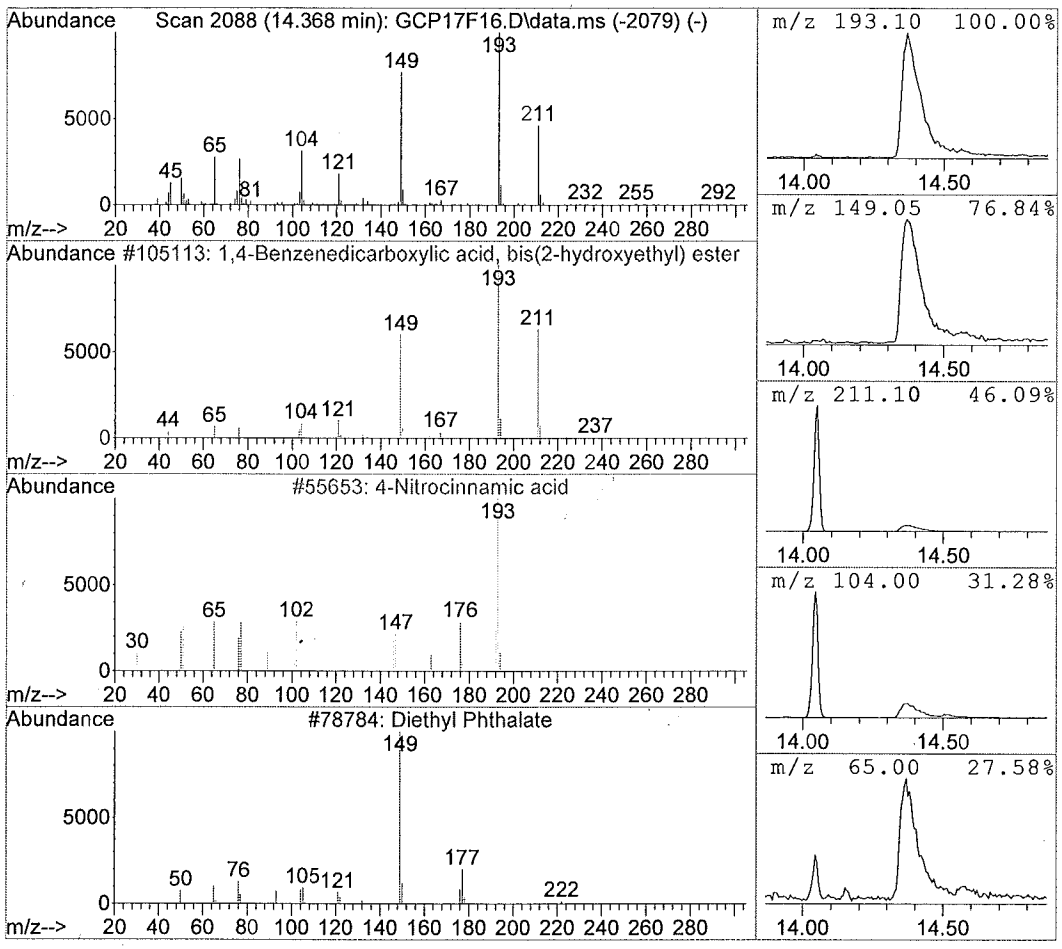
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP17F16.D Vial: 14
Acq On : 07/10/2015 19:14 Operator: TJM
Sample : 1515542016 F9M34 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
14.37	5.81 ug/ml	1057228	Chrysene-d12	3641879

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,4-Benzenedicarboxylic acid, bis(2	105113	000959-26-2	50.00
2	4-Nitrocinnamic acid	55653	000619-89-6	35.00
3	Diethyl Phthalate	78784	000084-66-2	32.00
4	4-(Trifluoroacetyl)benzoic acid	76213	058808-59-6	25.00
5	2,4,6-Trimethoxybenzonitrile	55144	002571-54-2	22.00



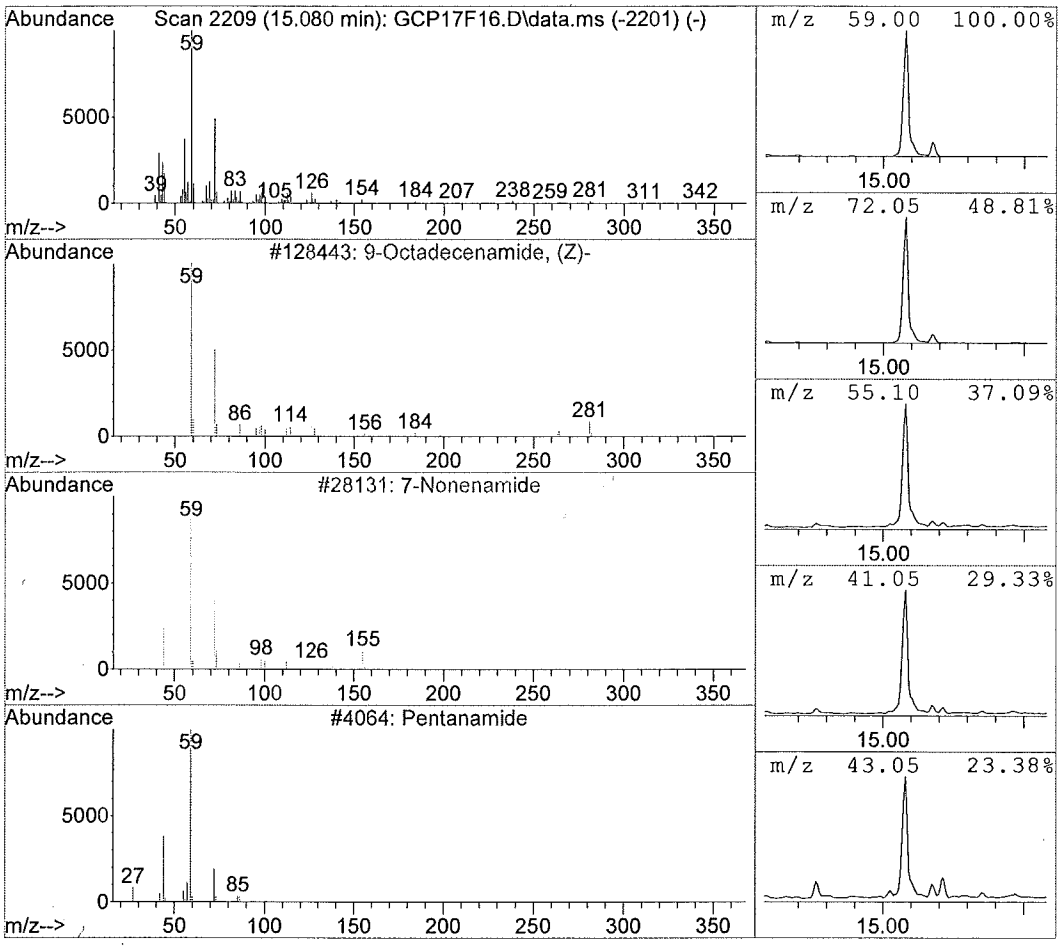
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP17F16.D Vial: 14
Acq On : 07/10/2015 19:14 Operator: TJM
Sample : 1515542016 F9M34 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
15.08	69.15 ug/ml	12592269	Chrysene-d12	3641879

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	93.00
2	7-Nonenamide	28131	090949-53-4	72.00
3	Pentanamide	4064	000626-97-1	59.00
4	Octanamide	20317	000629-01-6	56.00
5	Tetradecanamide	83608	000638-58-4	56.00



Library Search Compound Report

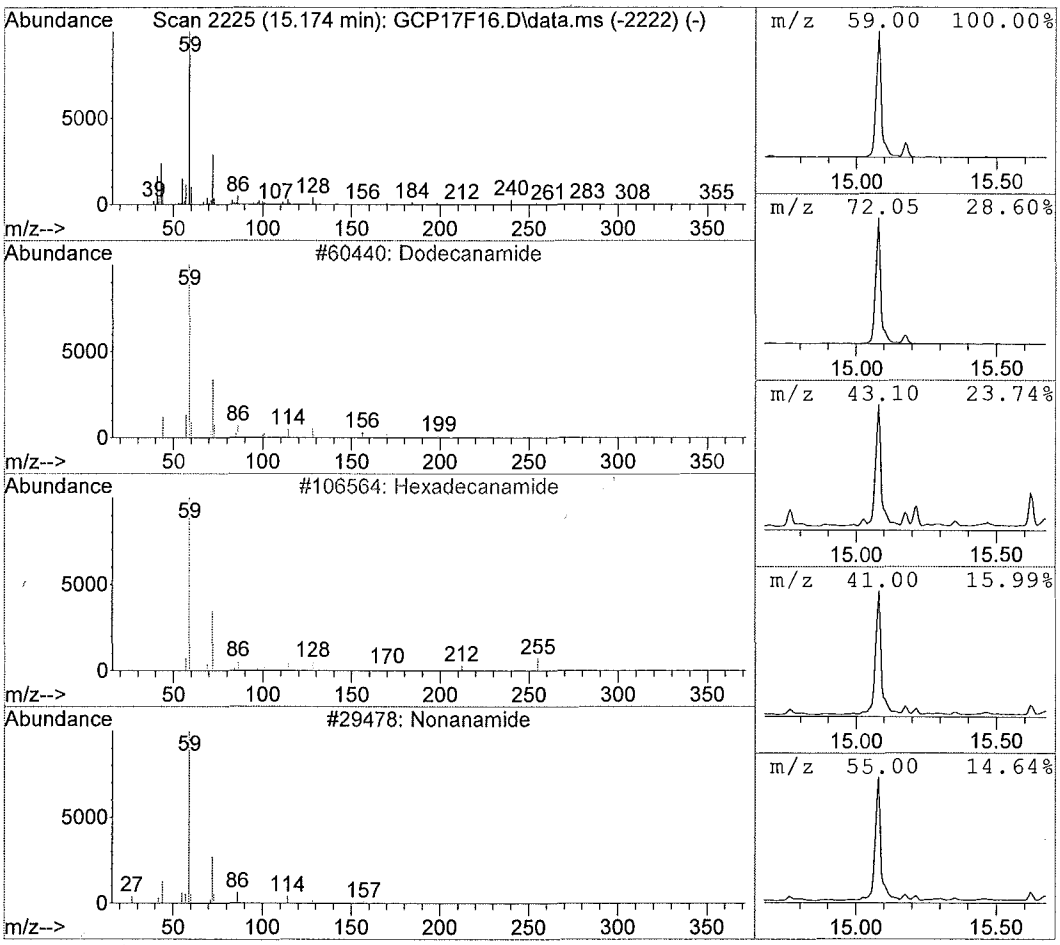
Data File : R:\G\2015\JUL15\10JUL15\GCP17F16.D
Acq On : 07/10/2015 19:14
Sample : 1515542016 F9M34
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 14
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	3.72 ug/ml	677554	Chrysene-d12	3641879

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60440	001120-16-7	86.00
2	Hexadecanamide	106564	000629-54-9	83.00
3	Nonanamide	29478	001120-07-6	80.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	72.00
5	Undecanamide, 11-bromo-	112862	005875-26-3	72.00



Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP17F16.D
Acq On : 07/10/2015 19:14
Sample : 1515542016 F9M34
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 14
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	4.62 ug/ml	842034	Chrysene-d12	3641879

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Eicosane, 10-methyl-	141431	054833-23-7	91.00
2	2-Bromo dodecane	100330	013187-99-0	91.00
3	Hexadecane, 5-butyl-	129495	006912-07-8	91.00
4	Eicosane	129492	000112-95-8	91.00
5	Heneicosane	141425	000629-94-7	90.00

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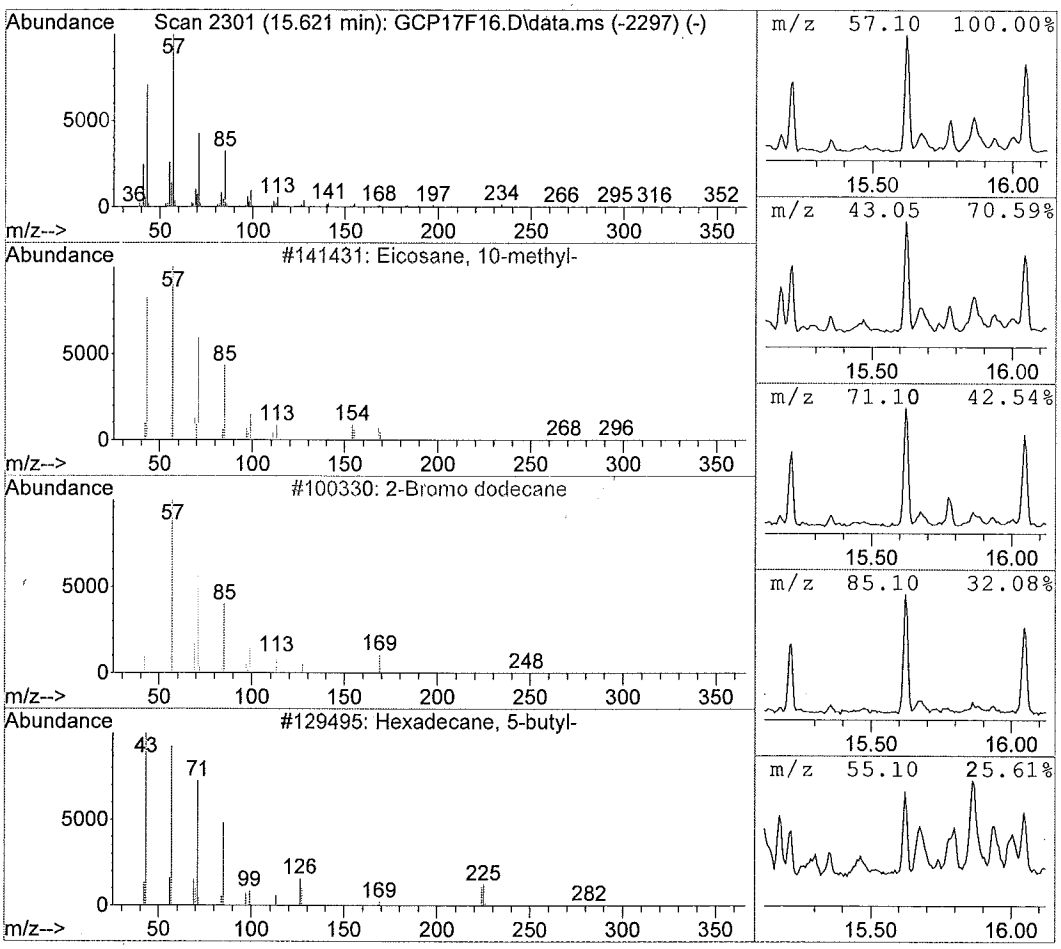


Library Search Compound Report

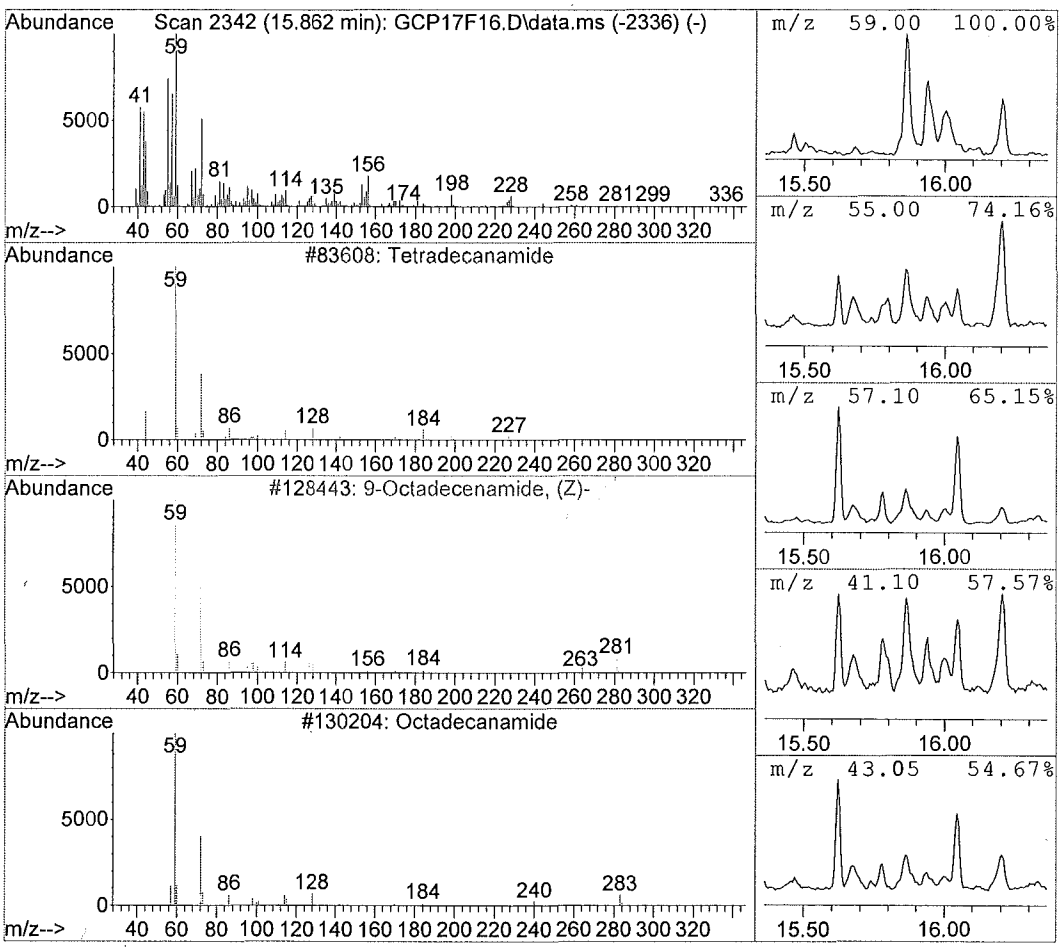
Data File : R:\G\2015\JUL15\10JUL15\GCP17F16.D
Acq On : 07/10/2015 19:14
Sample : 1515542016 F9M34
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 14
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	7.04 ug/ml	1282402	Chrysene-d12	3641879

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83608	000638-58-4	76.00
2	9-Octadecenamide, (Z)-	128443	000301-02-0	53.00
3	Octadecanamide	130204	000124-26-5	53.00
4	Decanamide-	38977	002319-29-1	53.00
5	Hexadecanamide	106565	000629-54-9	53.00



Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP17F16.D
Acq On : 07/10/2015 19:14
Sample : 1515542016 F9M34
Misc : . SOIL SOM
MS Integration Params: rteint.p

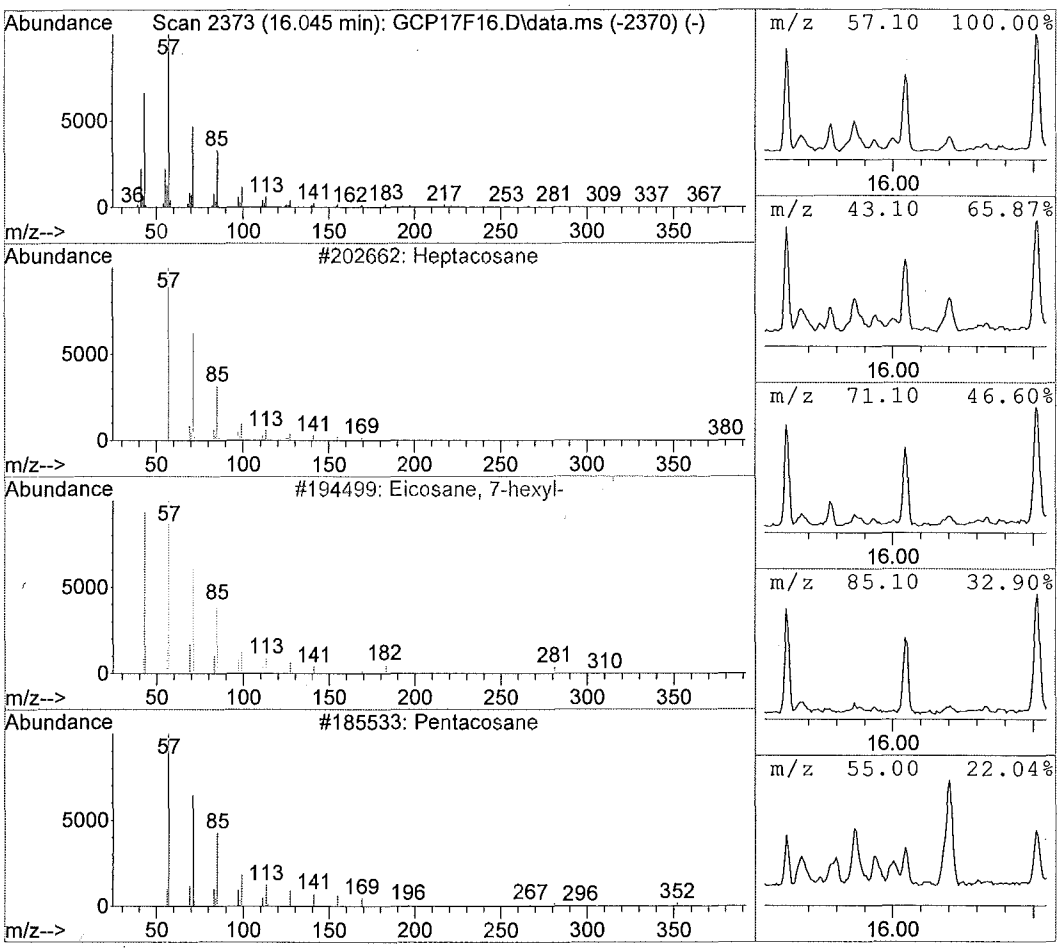
Vial: 14
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

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	3.84 ug/ml	699371	Chrysene-d12	3641879

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptacosane	202662	000593-49-7	90.00
2	Eicosane, 7-hexyl-	194499	055333-99-8	86.00
3	Pentacosane	185533	000629-99-2	83.00
4	Octacosane	209566	000630-02-4	83.00
5	Nonadecane, 2-methyl-	129498	001560-86-7	80.00

SCA



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Library Search Compound Report

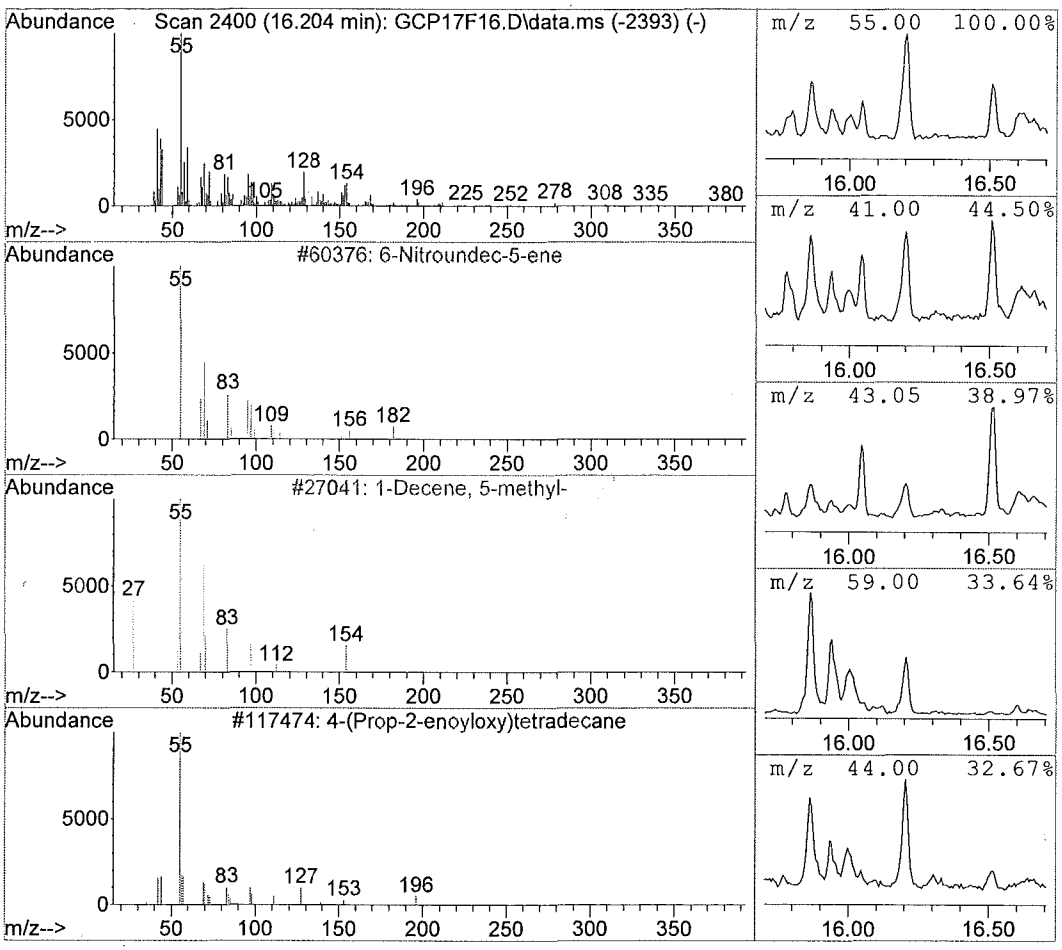
Data File : R:\G\2015\JUL15\10JUL15\GCP17F16.D
Acq On : 07/10/2015 19:14
Sample : 1515542016 F9M34
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 14
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	7.45 ug/ml	1357035	Chrysene-d12	3641879

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	6-Nitroundec-5-ene	60376	1000192-40-3	25.00
2	1-Decene, 5-methyl-	27041	054244-79-0	18.00
3	4-(Prop-2-enoyloxy)tetradecane	117474	1000245-67-2	14.00
4	1-Hexyl-1-nitrocyclohexane	71861	118252-09-8	14.00
5	N-(3-Methyl-2,5-dioxo-imidazolidin-	39190	1000287-36-8	11.00



Library Search Compound Report

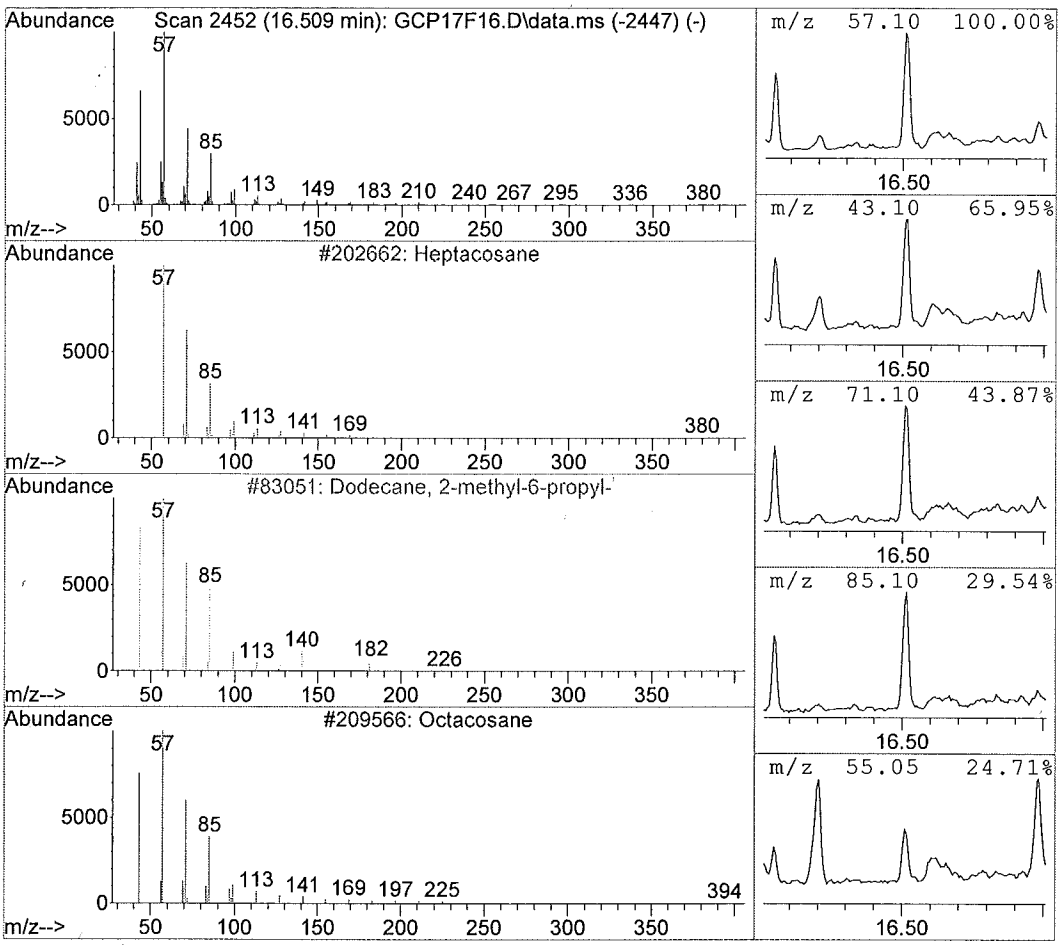
Data File : R:\G\2015\JUL15\10JUL15\GCP17F16.D Vial: 14
Acq On : 07/10/2015 19:14 Operator: TJM
Sample : 1515542016 F9M34 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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	7.33 ug/ml	1334335	Chrysene-d12	3641879

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptacosane	202662	000593-49-7	98.00
2	Dodecane, 2-methyl-6-propyl-	83051	055045-08-4	91.00
3	Octacosane	209566	000630-02-4	87.00
4	Hexacosane	194493	000630-01-3	87.00
5	Hexatriacontane	235973	000630-06-8	86.00

SCA



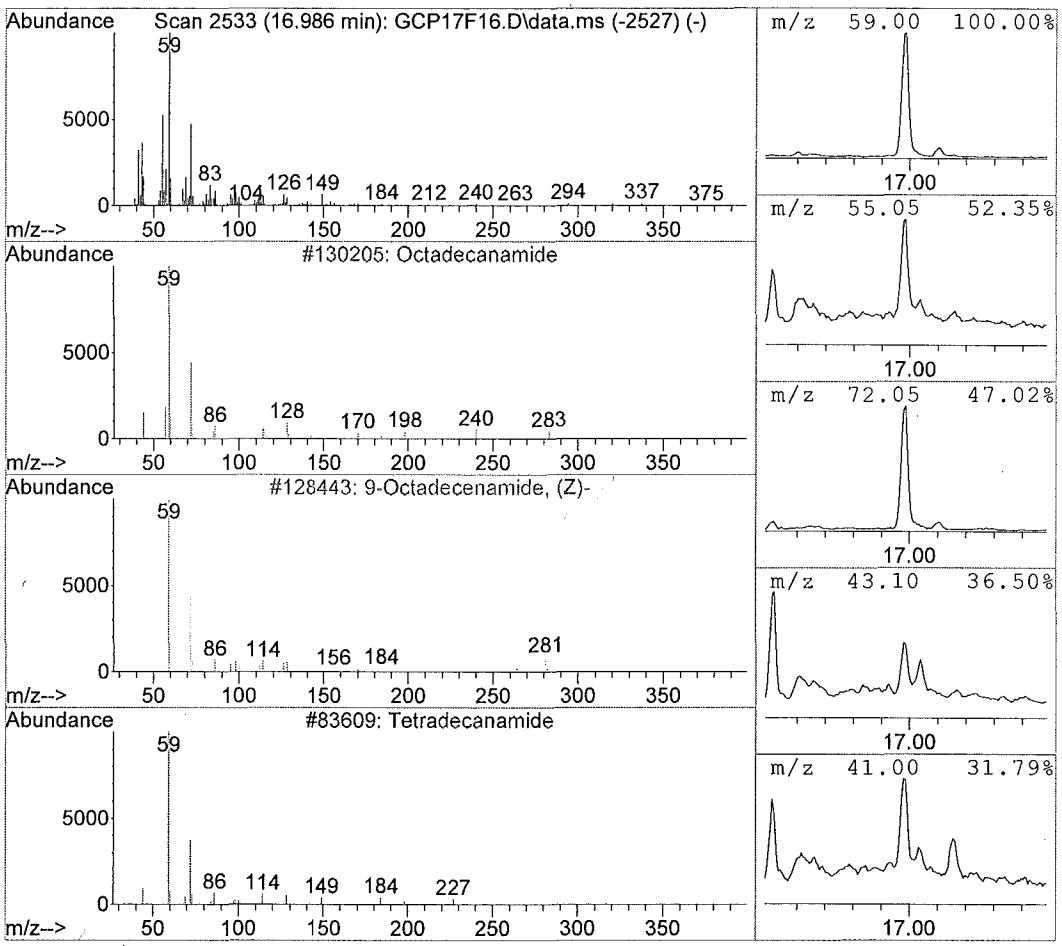
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP17F16.D Vial: 14
Acq On : 07/10/2015 19:14 Operator: TJM
Sample : 1515542016 F9M34 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
16.99	16.78 ug/ml	1685632	Perylene-d12	2009164

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octadecanamide	130205	000124-26-5	87.00
2	9-Octadecenamide, (Z)-	128443	000301-02-0	78.00
3	Tetradecanamide	83609	000638-58-4	72.00
4	Hexadecanamide	106565	000629-54-9	72.00
5	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	64.00



Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP17F16.D
Acq On : 07/10/2015 19:14
Sample : 1515542016 F9M34
Misc : . SOIL SOM
MS Integration Params: rteint.p

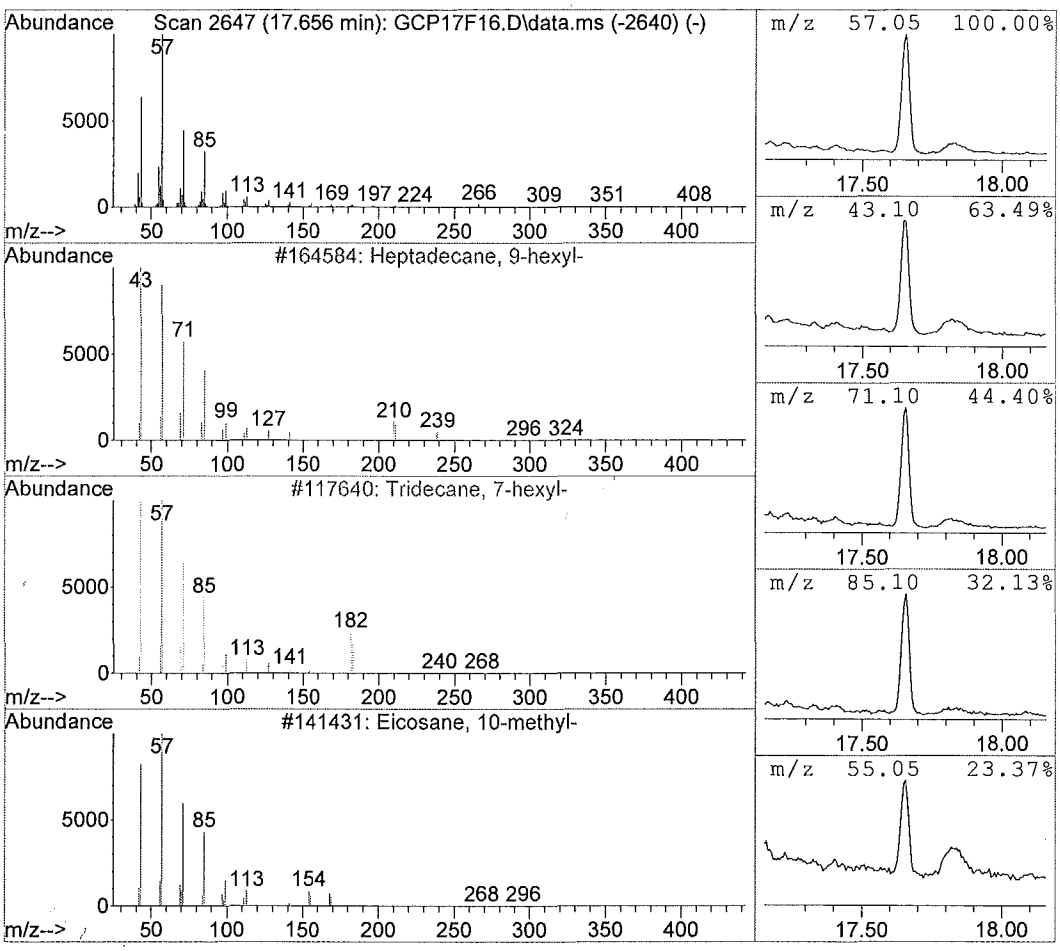
Vial: 14
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

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	18.08 ug/ml	1815986	Perylene-d12	2009164

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptadecane, 9-hexyl-	164584	055124-79-3	94.00
2	Tridecane, 7-hexyl-	117640	007225-66-3	94.00
3	Eicosane, 10-methyl-	141431	054833-23-7	91.00
4	Heneicosane, 11-decyl-	223853	055320-06-4	91.00
5	Dodecane, 2-methyl-6-propyl-	83051	055045-08-4	90.00

3A



: 00432

Library Search Compound Report

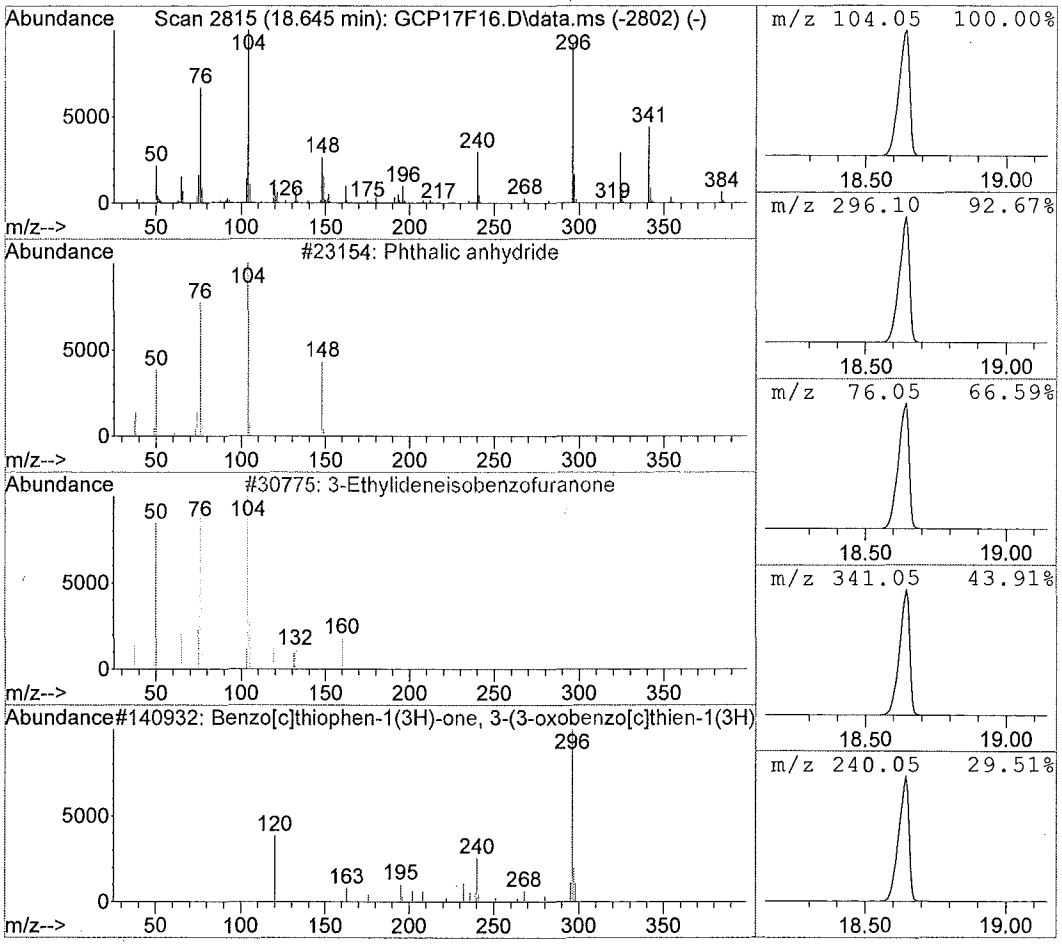
Data File : R:\G\2015\JUL15\10JUL15\GCP17F16.D
Acq On : 07/10/2015 19:14
Sample : 1515542016 F9M34
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 14
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
18.64	117.54 ug/ml	11808154	Perylene-d12	2009164

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	23154	000085-44-9	27.00
2	3-Ethylideneisobenzofuranone	30775	004767-63-9	22.00
3	Benzo[c]thiophen-1(3H)-one, 3-(3-ox	140932	023667-32-5	22.00
4	Spiro[isobenzofuran-1(3H)-one-3,2'-	63945	054103-04-7	22.00
5	3H-2-Benzopyran-3-one, 1,4-dihydro-	23279	004385-35-7	14.00



Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP17F16.D
Acq On : 07/10/2015 19:14
Sample : 1515542016 F9M34
Misc : . SOIL SOM
MS Integration Params: rteint.p

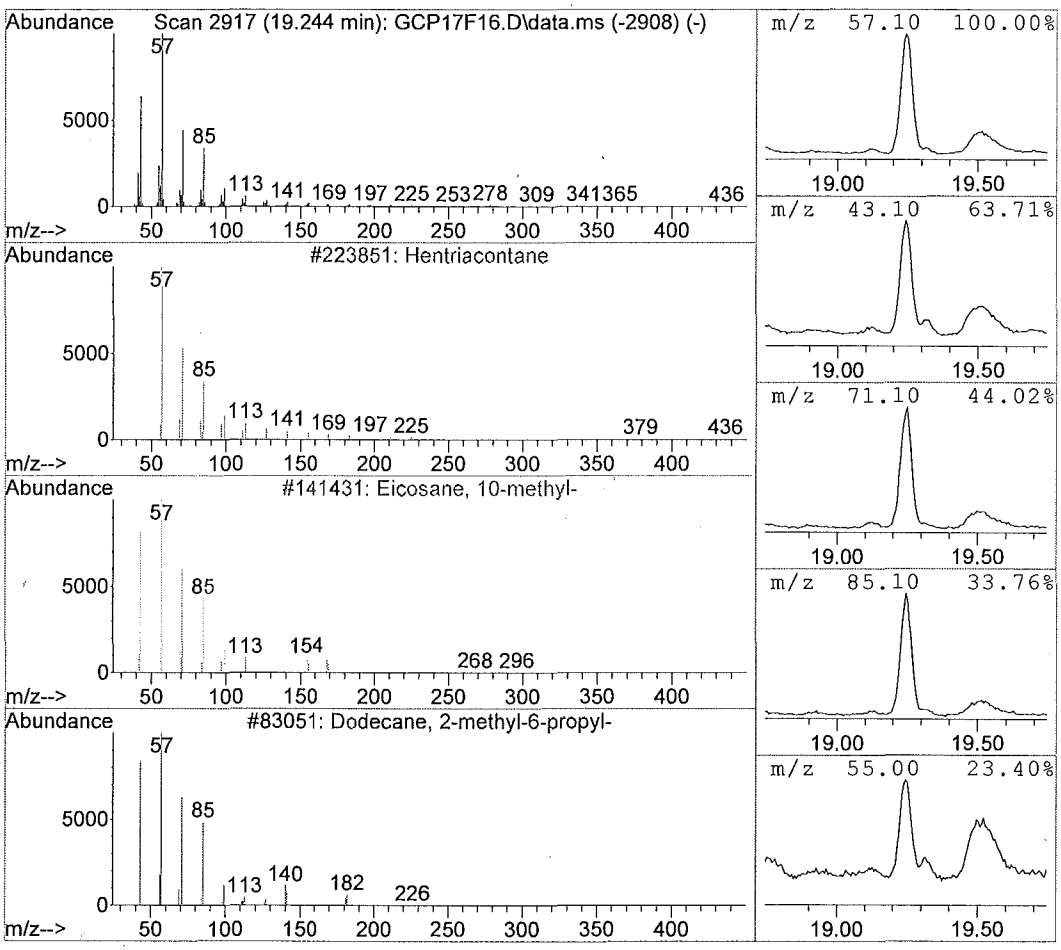
Vial: 14
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

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	22.76 ug/ml	2286454	Perylene-d12	2009164

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hentriacontane	223851	000630-04-6	94.00
2	Eicosane, 10-methyl-	141431	054833-23-7	93.00
3	Dodecane, 2-methyl-6-propyl-	83051	055045-08-4	91.00
4	Heptacosane	202662	000593-49-7	91.00
5	Eicosane, 7-hexyl-	194499	055333-99-8	87.00

5 CA



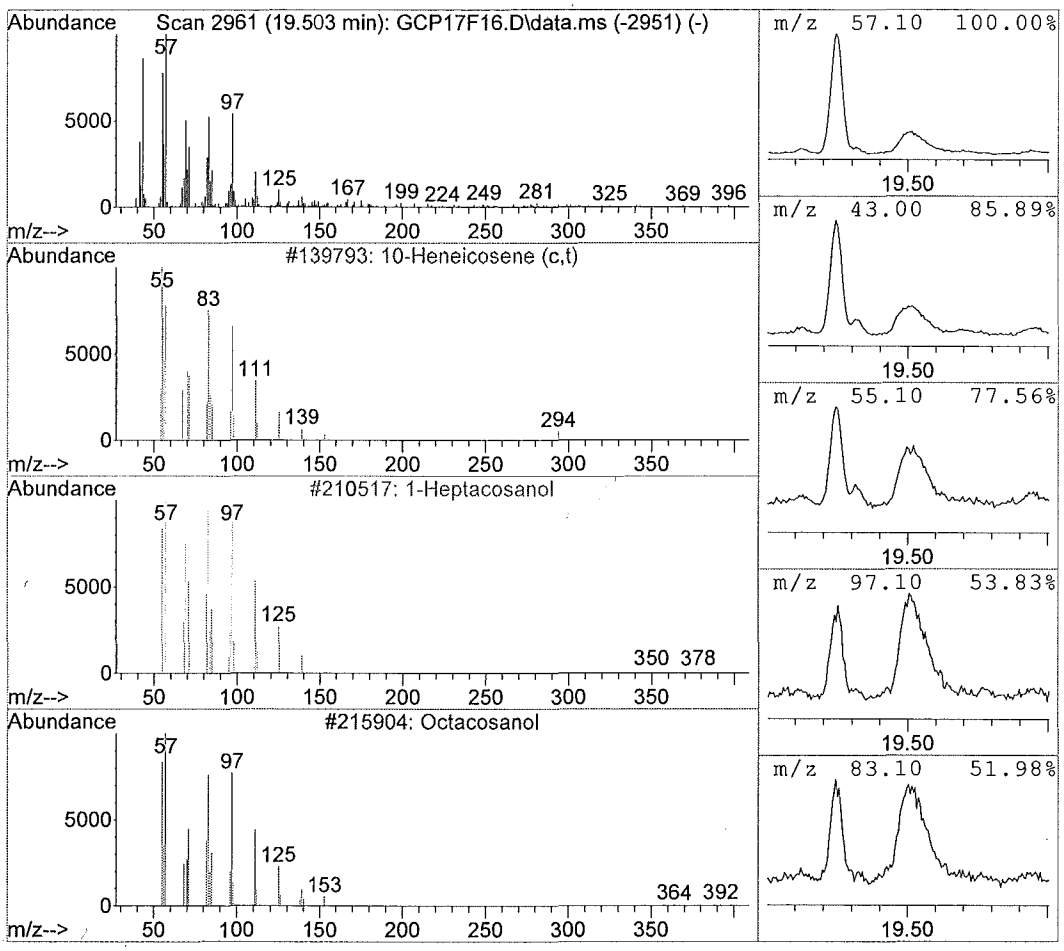
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP17F16.D Vial: 14
Acq On : 07/10/2015 19:14 Operator: TJM
Sample : 1515542016 F9M34 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
19.50	6.75 ug/ml	678204	Perylene-d12	2009164

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	10-Heneicosene (c,t)	139793	095008-11-0	93.00
2	1-Heptacosanol	210517	002004-39-9	91.00
3	Octacosanol	215904	000557-61-9	91.00
4	Octacosyl acetate	227661	018206-97-8	91.00
5	Heptacosyl acetate	224391	1000351-78-2	91.00

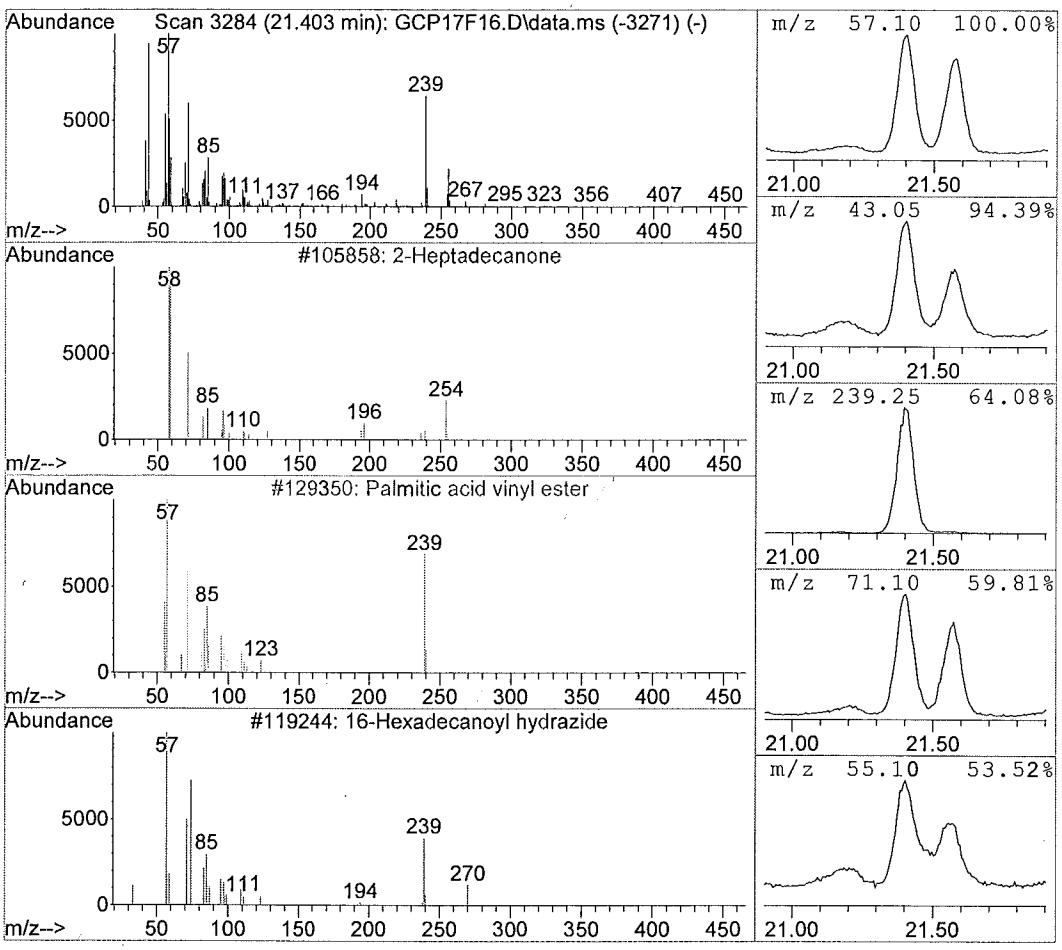


Data File : R:\G\2015\JUL15\10JUL15\GCP17F16.D Vial: 14
Acq On : 07/10/2015 19:14 Operator: TJM
Sample : 1515542016 F9M34 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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
21.40	50.20 ug/ml	5042533	Perylene-d12	2009164

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Heptadecanone	105858	002922-51-2	46.00
2	Palmitic acid vinyl ester	129350	000693-38-9	45.00
3	16-Hexadecanoyl hydrazide	119244	002619-88-7	38.00
4	Octadecane	105886	000593-45-3	35.00
5	trans-1,2-Bis(methyldichlorosilyl)e	104235	065899-10-7	18.00



Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP17F16.D
Acq On : 07/10/2015 19:14
Sample : 1515542016 F9M34
Misc : . SOIL SOM
MS Integration Params: rteint.p

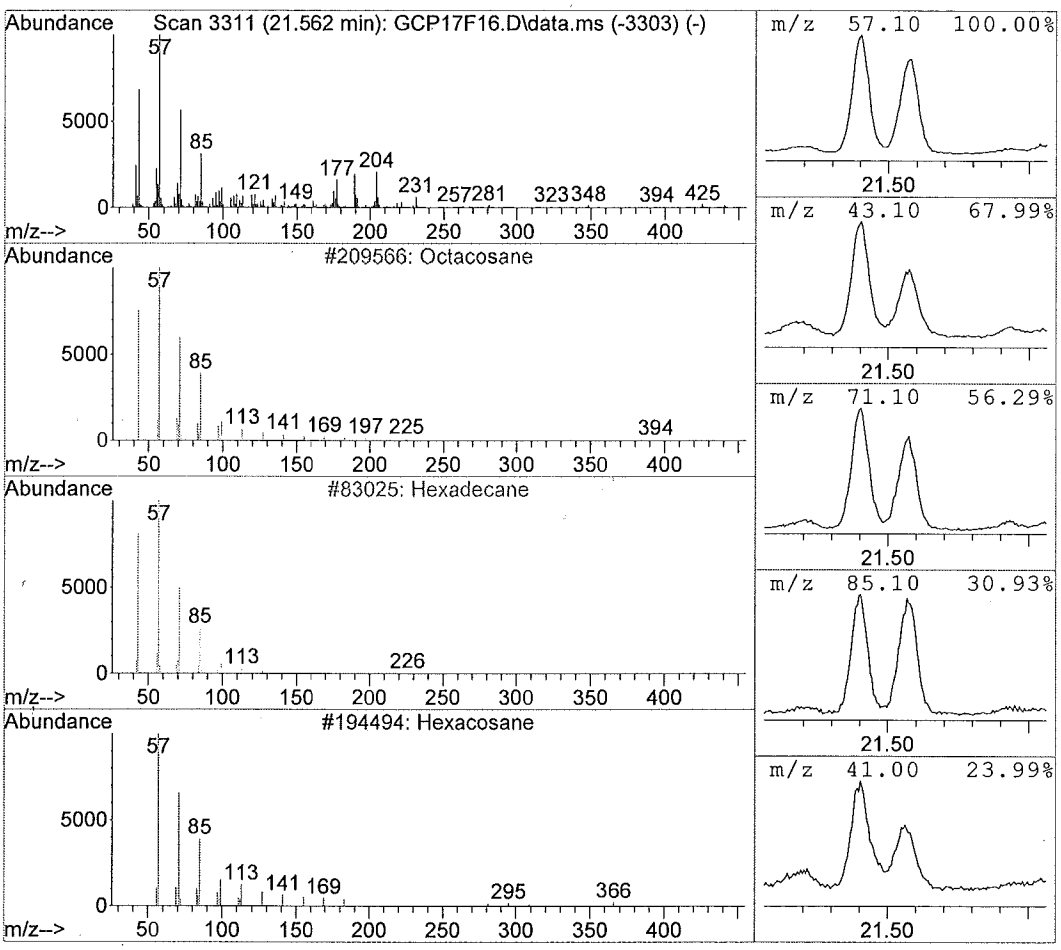
Vial: 14
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

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	35.19 ug/ml	3535106	Perylene-d12	2009164

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octacosane	209566	000630-02-4	95.00
2	Hexadecane	83025	000544-76-3	46.00
3	Hexacosane	194494	000630-01-3	46.00
4	Eicosane, 9-octyl-	209567	013475-77-9	46.00
5	Pentacosane	185533	000629-99-2	46.00

SCA



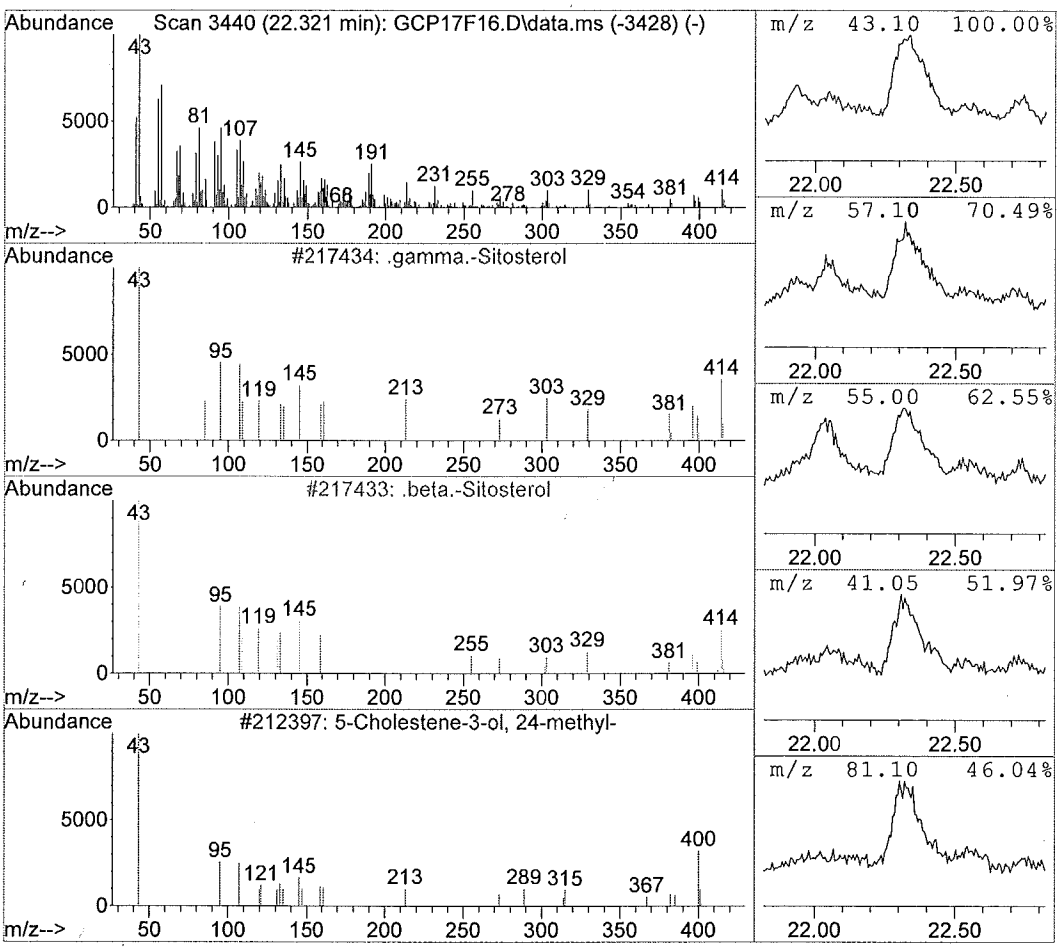
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP17F16.D Vial: 14
Acq On : 07/10/2015 19:14 Operator: TJM
Sample : 1515542016 F9M34 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
22.32	21.80 ug/ml	2189789	Perylene-d12	2009164

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	.gamma.-Sitosterol	217434	000083-47-6	99.00
2	.beta.-Sitosterol	217433	000083-46-5	99.00
3	5-Cholestene-3-ol, 24-methyl-	212397	1000214-17-4	49.00
4	Campesterol	212386	000474-62-4	47.00
5	Isocholesteryl methyl ether	212393	029944-53-4	46.00



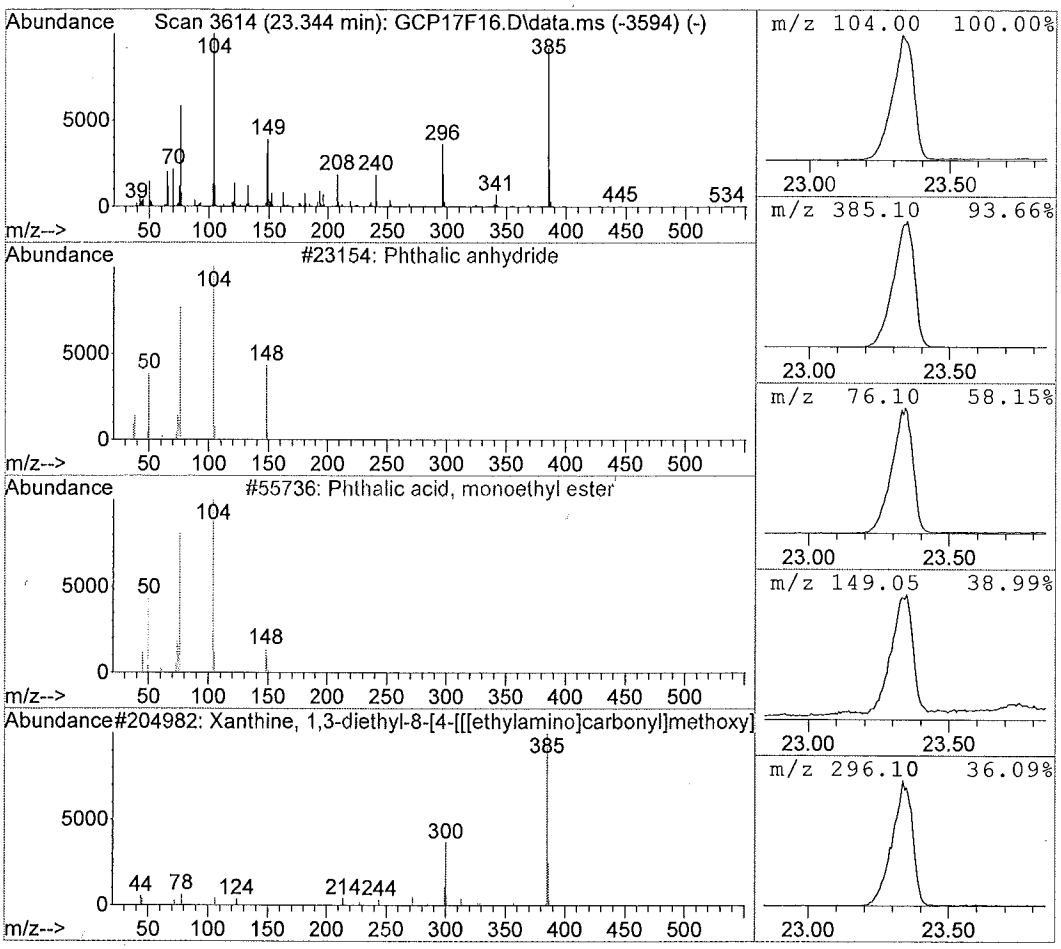
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP17F16.D Vial: 14
Acq On : 07/10/2015 19:14 Operator: TJM
Sample : 1515542016 F9M34 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
23.34	80.20 ug/ml	8056591	Perylene-d12	2009164

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	23154	000085-44-9	27.00
2	Phthalic acid, monoethyl ester	55736	002306-33-4	16.00
3	Xanthine, 1,3-diethyl-8-[4-[[[ethyl	204982	104576-48-9	14.00
4	2-Propenamide, N-[4,5-dihydro-5-oxo	141600	1000350-88-9	14.00
5	Spiro[isobenzofuran-1(3H)-one-3,2'-	63945	054103-04-7	12.00



Library Search Compound Report

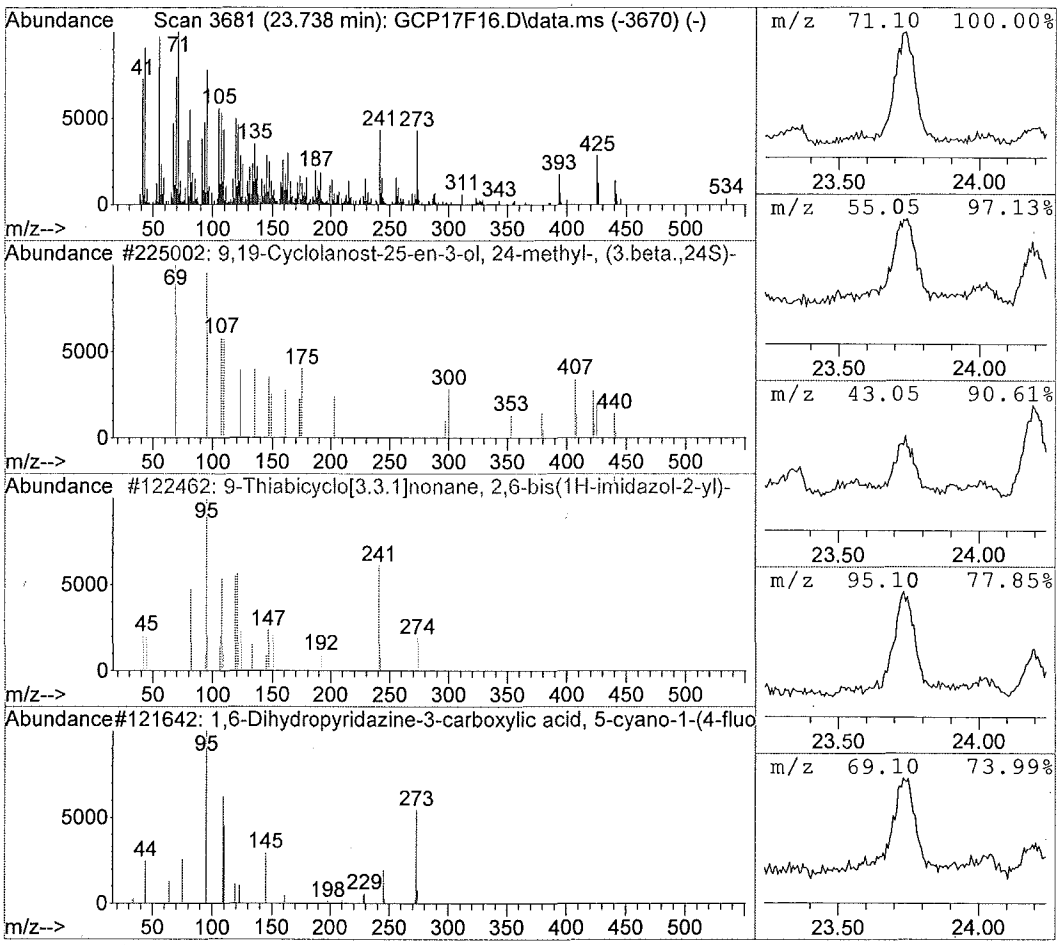
Data File : R:\G\2015\JUL15\10JUL15\GCP17F16.D
Acq On : 07/10/2015 19:14
Sample : 1515542016 F9M34
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 14
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
23.74	19.63 ug/ml	1971929	Perylene-d12	2009164

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9,19-Cyclolanost-25-en-3-ol, 24-met	225002	000511-61-5	51.00
2	9-Thiabicyclo[3.3.1]nonane, 2,6-bis	122462	1000141-52-1	42.00
3	1,6-Dihydropyridazine-3-carboxylic	121642	1000304-05-0	27.00
4	n-Hexyl-N-(4-trifluoroacetyl-phenyl	179032	1000194-85-3	14.00
5	Lanosterol	221175	000079-63-0	11.00



Library Search Compound Report

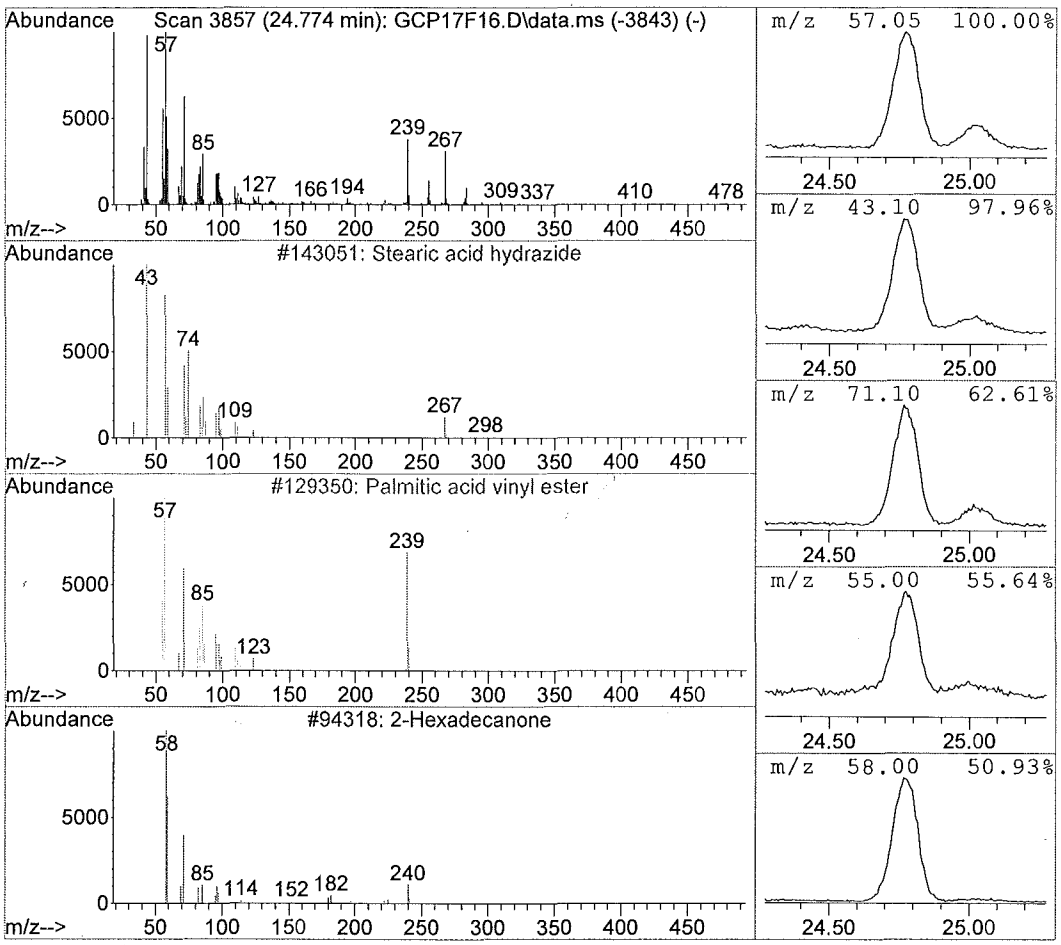
Data File : R:\G\2015\JUL15\10JUL15\GCP17F16.D
Acq On : 07/10/2015 19:14
Sample : 1515542016 F9M34
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 14
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
24.77	37.59 ug/ml	3776542	Perylene-d12	2009164

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Stearic acid hydrazide	143051	004130-54-5	38.00
2	Palmitic acid vinyl ester	129350	000693-38-9	30.00
3	2-Hexadecanone	94318	018787-63-8	27.00
4	16-Hexadecanoyl hydrazide	119244	002619-88-7	25.00
5	Hexadecanal, 2-methyl-	105861	055019-46-0	20.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M35

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GCP18F17

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

% Moisture: 18. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	210	U
108-95-2	Phenol	210	U
111-44-4	Bis(2-chloroethyl)ether	210	U
95-57-8	2-Chlorophenol	210	U
95-48-7	2-Methylphenol	210	U
108-60-1	2,2'-Oxybis(1-chloropropane)	210	U
98-86-2	Acetophenone	210	U
106-44-5	4-Methylphenol	210	U
621-64-7	N-Nitroso-di-n-propylamine	210	U
67-72-1	Hexachloroethane	210	U
98-95-3	Nitrobenzene	210	U
78-59-1	Isophorone	210	U
88-75-5	2-Nitrophenol	210	U
105-67-9	2,4-Dimethylphenol	210	U
111-91-1	Bis(2-chloroethoxy)methane	210	U
120-83-2	2,4-Dichlorophenol	210	U
91-20-3	Naphthalene	210	U
106-47-8	4-Chloroaniline	210	U
87-68-3	Hexachlorobutadiene	210	U
105-60-2	Caprolactam	210	U
59-50-7	4-Chloro-3-methylphenol	210	U
91-57-6	2-Methylnaphthalene	210	U
77-47-4	Hexachlorocyclopentadiene	210	U
88-06-2	2,4,6-Trichlorophenol	210	U
95-95-4	2,4,5-Trichlorophenol	210	U
92-52-4	1,1'-Biphenyl	210	U
91-58-7	2-Chloronaphthalene	210	U
88-74-4	2-Nitroaniline	400	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	400	U
83-32-9	Acenaphthene	210	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M35

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GCP18F17

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

% Moisture: 18. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

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	400	U
100-02-7	4-Nitrophenol	400	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	400	U
534-52-1	4,6-Dinitro-2-methylphenol	400	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	400	U
85-01-8	Phenanthrene	47.	J
120-12-7	Anthracene	210	U
86-74-8	Carbazole	210	U
84-74-2	Di-n-butylphthalate	210	U
206-44-0	Fluoranthene	69.	J
129-00-0	Pyrene	65.	J
85-68-7	Butylbenzylphthalate	210	U
91-94-1	3,3'-Dichlorobenzidine	210	U
56-55-3	Benzo(a)anthracene	42.	J
218-01-9	Chrysene	52.	J
117-81-7	Bis(2-ethylhexyl)phthalate	48.	J
117-84-0	Di-n-octylphthalate	210	U
205-99-2	Benzo(b)fluoranthene	75.	J
207-08-9	Benzo(k)fluoranthene	23.	J
50-32-8	Benzo(a)pyrene	42.	J
193-39-5	Indeno(1,2,3-cd)pyrene	22.	J
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.

F9M35

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GCP18F17

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

% Moisture: 18. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

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 1,3-Dioxolane, 2,2-dimethyl-	2.30	240	J
02		Unknown 1-Propanol, 2-methyl-	2.33	190	J
03		Unknown 2-Pentanone, 4-hydroxy-	3.30	780	JB
04		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.52	18000	JB
05		Unknown TATP	4.08	400	J
06		Unknown Hexane, 3-bromo-	4.19	250	J
07		Unknown 1H-Pyrrole-2,5-dione	4.28	710	J
08		Unknown 2-Pentanone	4.59	1000	J
09		Unknown Ethanone, 1-oxiranyl-	5.10	480	J
10	112-39-0	Hexadecanoic acid, methyl ester	12.40	160	JN
11	57-10-3	n-Hexadecanoic acid	12.66	230	JN
12	1120-16-7	Dodecanamide	14.15	440	JN
13	301-02-0	9-Octadecenamide, (Z)-	15.07	2100	JNB
14		Unknown Tetradecanamide	15.86	190	J
15		Unknown Propanedioic acid, 2-propenyl-, dimethyl	16.20	290	J
16		Unknown E-15-Heptadecenal	16.60	150	J
17	301-02-0	9-Octadecenamide, (Z)-	16.98	490	JN
18		Unknown 1,2,3-Trimethylindene	19.32	260	J
19		Unknown 1-Triacontanol	19.50	360	J
20	83-48-7	Stigmasterol	21.46	280	JN
21	83-46-5	.beta.-Sitosterol	22.32	870	JN
22		Unknown 1,6-Dihydropyridazine-3-carboxylic acid,	23.73	790	J
23		Unknown Stigmast-4-en-3-one	24.20	600	J
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	3300	J

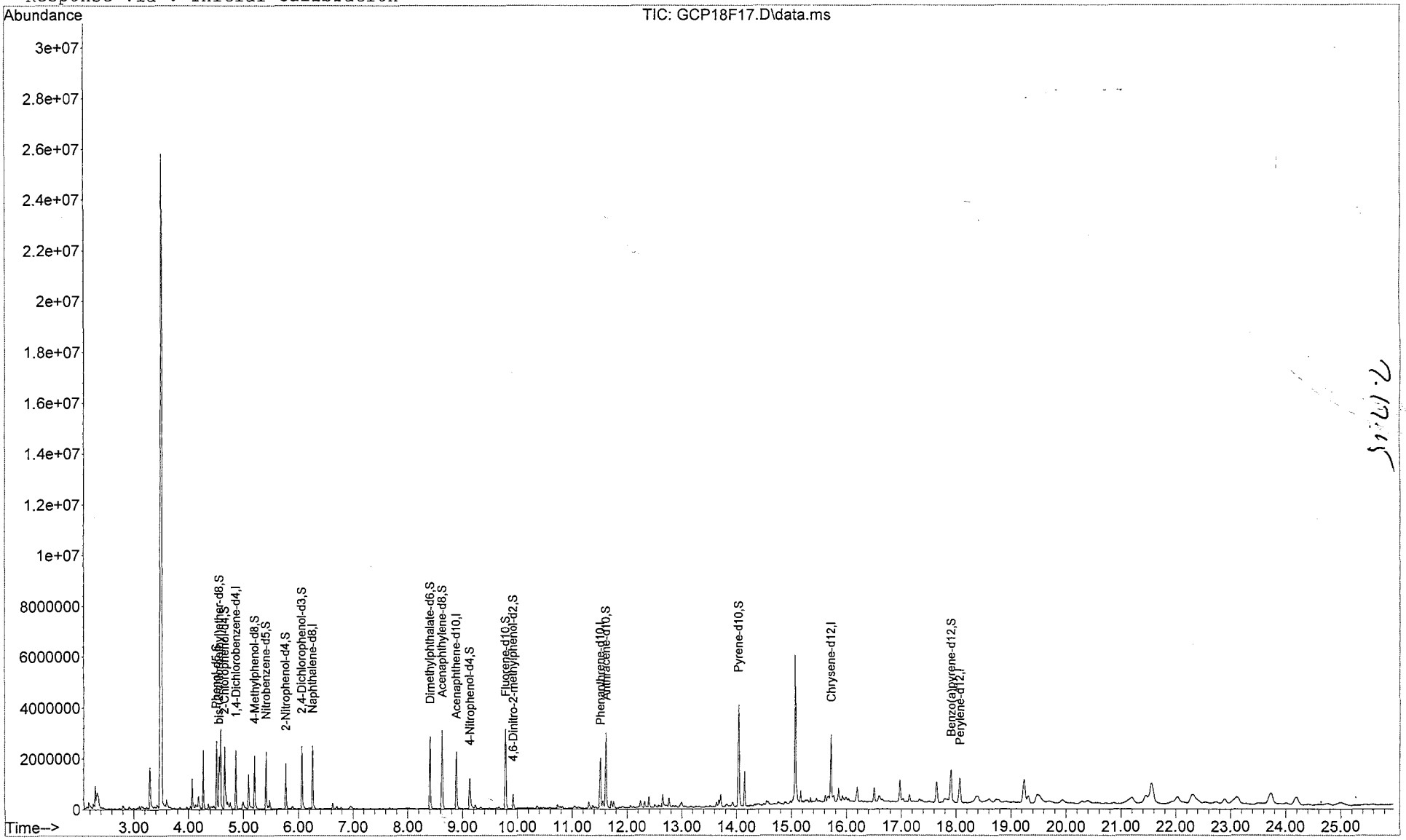
[2] EPA-designated Registry Number.

Quantitation Report

Data File : R:\G\2015\JUL15\10JUL15\GCP18F17.D Vial: 15
Acq On : 07/10/2015 19:47 Operator: TJM
Sample : 1515542017 F9M35 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jul 17 09:35:22 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\10JUL15\GCP18F17.D Vial: 15
Acq On : 07/10/2015 19:47 Operator: TJM
Sample : 1515542017 F9M35 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 17 09:35:22 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	325203	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1182248	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	676744	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1085099	20.00 ug/ml
73) Chrysene-d12	15.73	240	1067375	20.00 ug/ml
81) Perylene-d12	18.07	264	684416	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.52	99	744232	26.298ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	413434	18.746ug/mL
7) 2-Chlorophenol-d4	4.66	132	598873	25.063ug/ml
13) 4-Methylphenol-d8	5.21	113	415343	21.943ug/mL
17) Nitrobenzene-d5	5.42	128	243770	23.471ug/ml
21) 2-Nitrophenol-d4	5.77	143	272272	24.802ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	512808	30.000ug/mL
28) 4-Chloroaniline-d4	6.35	131	986	0.053ug/mL
42) Dimethylphthalate-d6	8.42	166	1418157	33.419ug/mL
45) Acenaphthylene-d8	8.63	160	1736177	30.105ug/mL
50) 4-Nitrophenol-d4	9.14	143	265167	30.630ug/mL
57) Fluorene-d10	9.79	176	1193826	32.942ug/mL
61) 4,6-Dinitro-2-methylphenol	9.93	200	85431	11.092ug/mL
69) Anthracene-d10	11.62	188	1681729	29.225ug/mL
75) Pyrene-d10	14.05	212	1778773	33.393ug/mL
86) Benzo(a)pyrene-d12	17.92	264	880166	26.838ug/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\10JUL15\GCP18F17.D Vial: 15
Acq On : 07/10/2015 19:47 Operator: TJM
Sample : 1515542017 F9M35 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 17 09:35:22 2015 Results File: GSOM01D6.RES

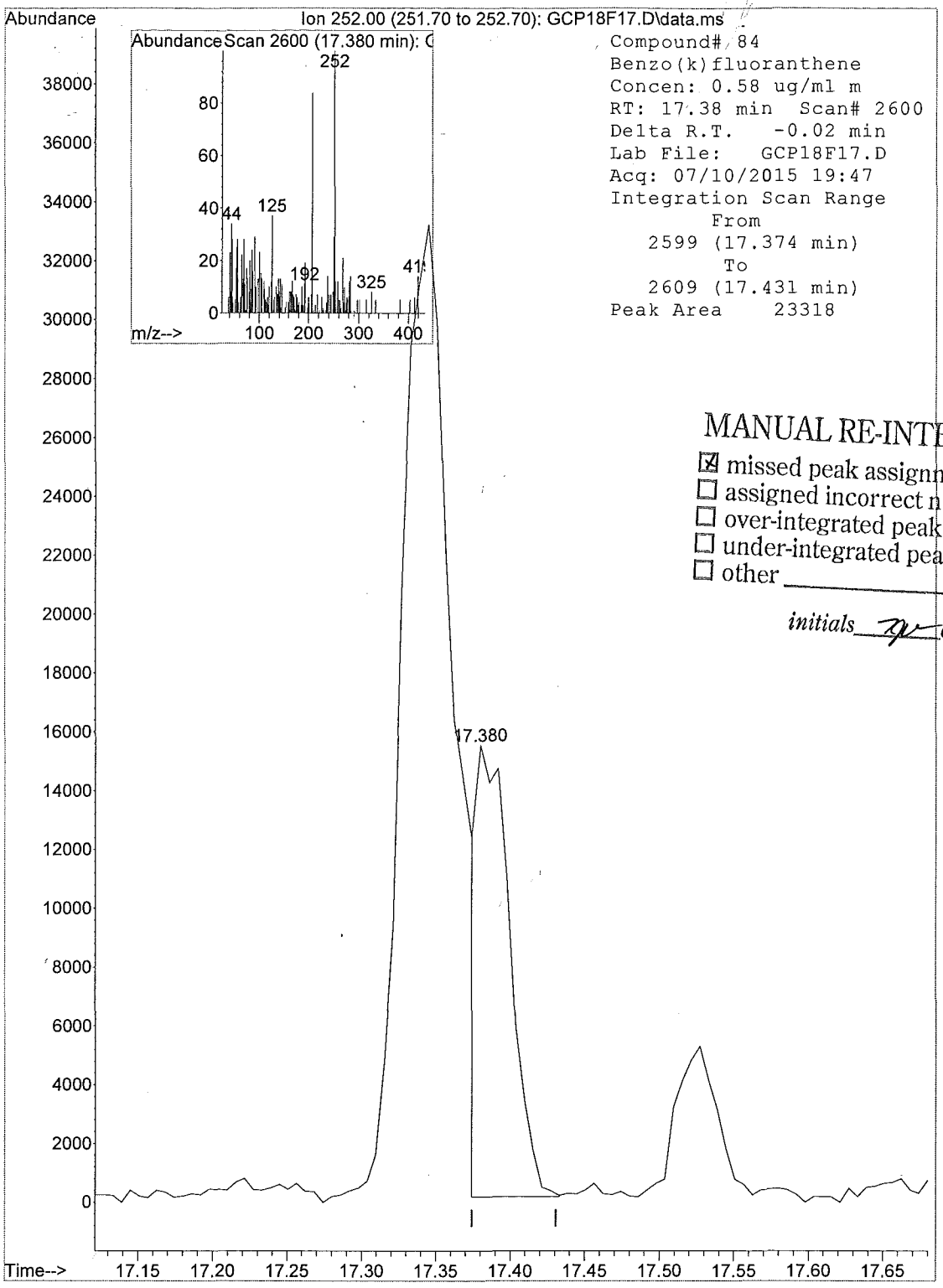
Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration

	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	11.56	178	67902	1.173ug/ml	97
68)	Anthracene	0.00	178		Not Detected	
70)	Carbazole	0.00	167		Not Detected	
71)	Di-n-butylphthalate	0.00	149		Not Detected	
72)	Fluoranthene	13.72	202	109039	1.710ug/ml	99
74)	Pyrene	14.07	202	109200	1.607ug/ml	62
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	15.71	228	68350	1.056ug/ml	85
79)	Chrysene	15.76	228	76068	1.301ug/ml	97
80)	Bis-(2-ethylhexyl)phthalat	15.78	149	63344	1.200ug/ml	93
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	17.34	252	80372	1.875ug/ml	94
84)	Benzo(k)fluoranthene	17.38	252	23318	0.576ug/ml m	94
85)	Benzo(a)pyrene	17.96	252	42192	1.046ug/ml	98
87)	Indeno(1,2,3-c,d)pyrene	20.72	276	19372	0.543ug/ml	97
88)	Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89)	Benzo(g,h,i)perylene	0.00	276		Not Detected	

7.17.15

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

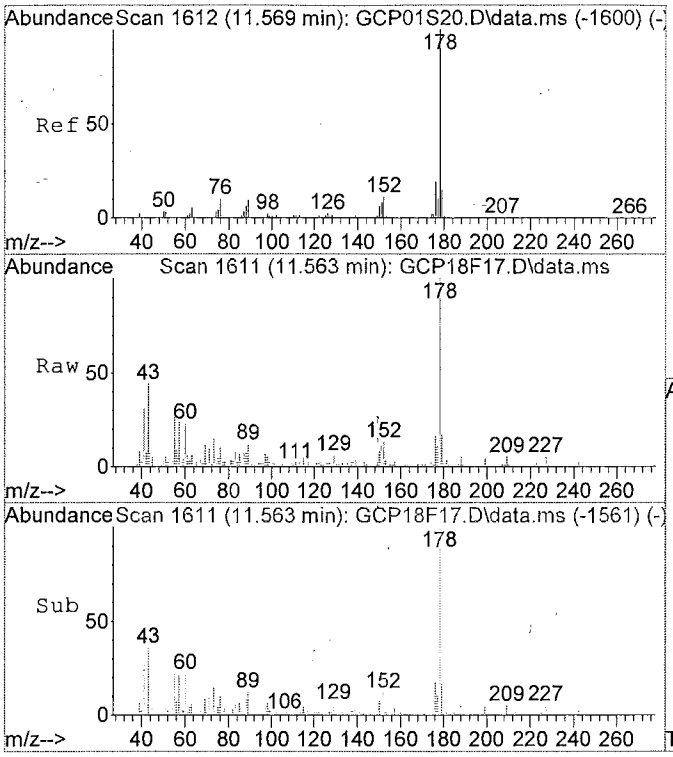
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- ☒ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

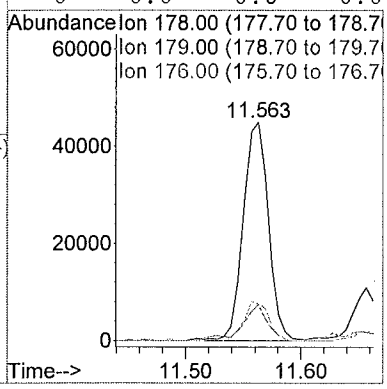
initials ____ *date* 7.17.15

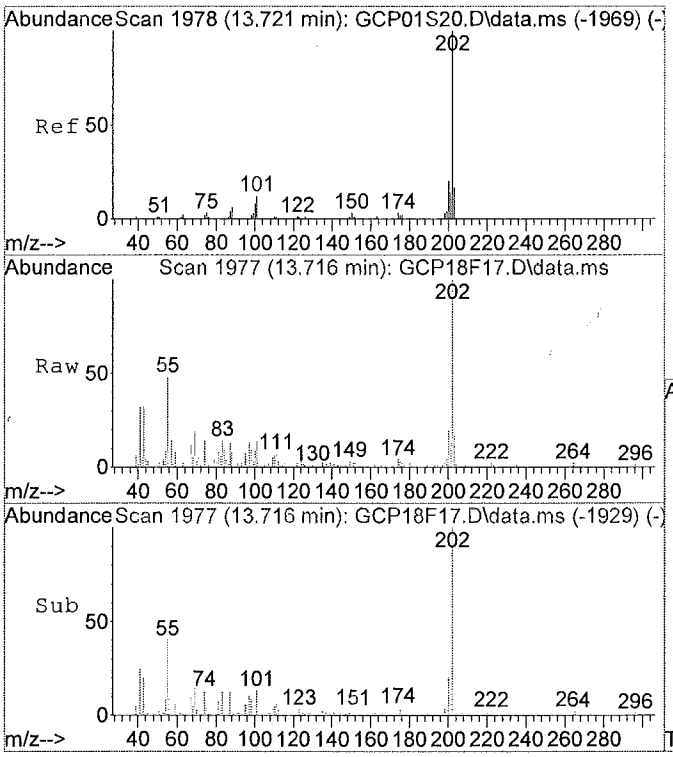


#67
Phenanthrene
Concen: 1.17 ug/ml
RT: 11.56 min Scan# 1611
Delta R.T. -0.01 min
Lab File: GCP18F17.D
Acq: 07/10/2015 19:47

Tgt Ion:178 Resp: 67902

Ion	Ratio	Lower	Upper
178	100		
179	17.1	10.6	19.8
176	17.8	13.2	24.4
0	0.0	0.0	0.0

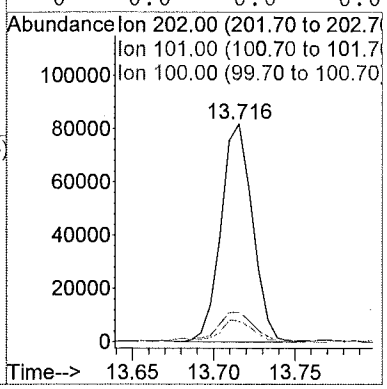


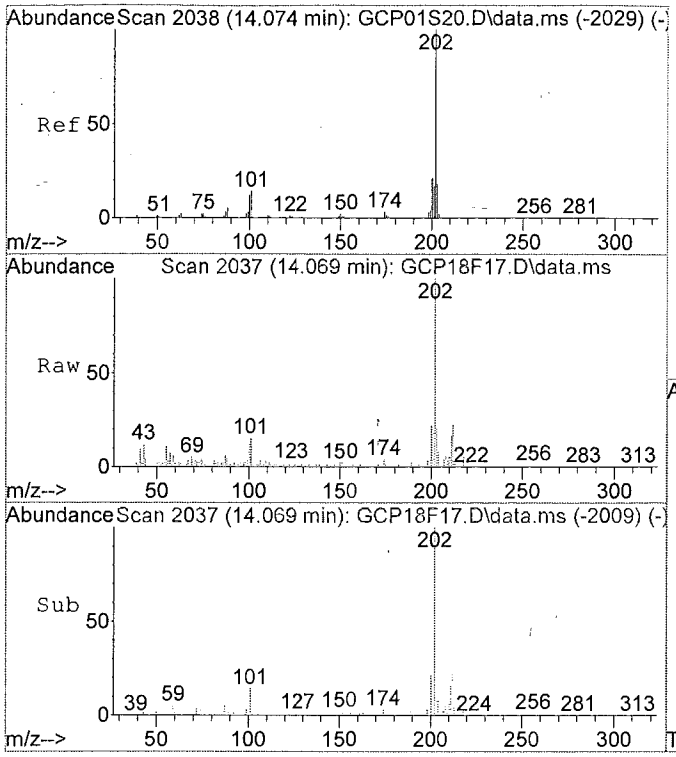


#72
Fluoranthene
Concen: 1.71 ug/ml
RT: 13.72 min Scan# 1977
Delta R.T. -0.01 min
Lab File: GCP18F17.D
Acq: 07/10/2015 19:47

Tgt Ion:202 Resp: 109039

Ion	Ratio	Lower	Upper
202	100		
101	15.0	10.5	19.5
100	11.2	7.4	13.8
0	0.0	0.0	0.0

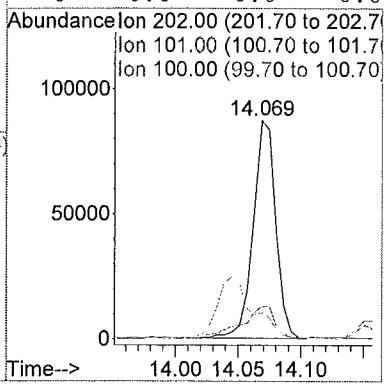


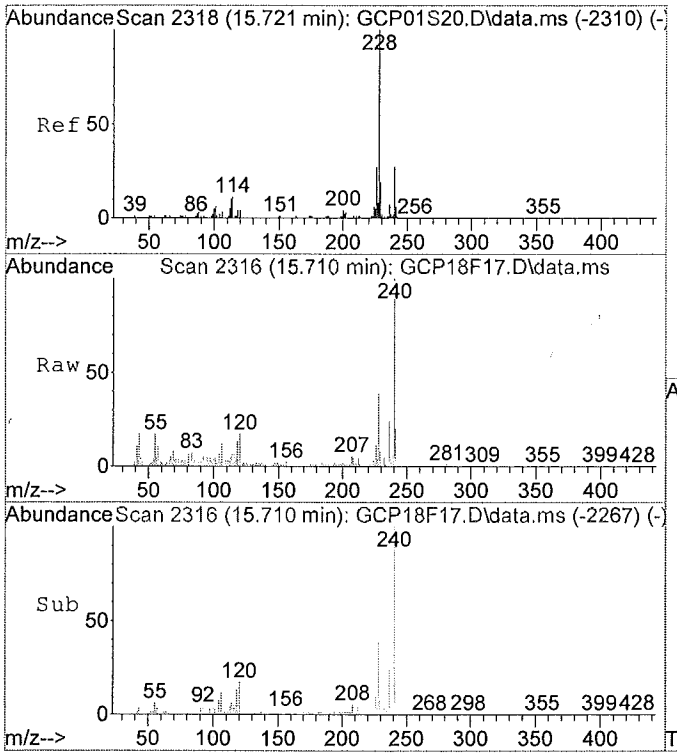


#74
Pyrene
Concen: 1.61 ug/ml
RT: 14.07 min Scan# 2037
Delta R.T. -0.01 min
Lab File: GCP18F17.D
Acq: 07/10/2015 19:47

Tgt Ion:202 Resp: 109200

Ion	Ratio	Lower	Upper
202	100		
101	21.0	12.2	22.7
100	44.8	10.1	18.7#
0	0.0	0.0	0.0

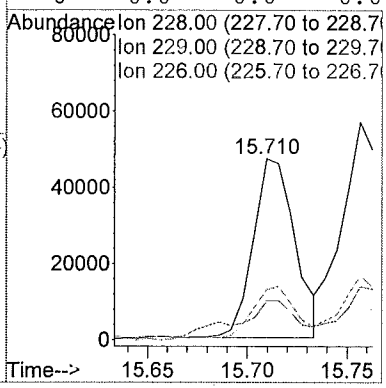


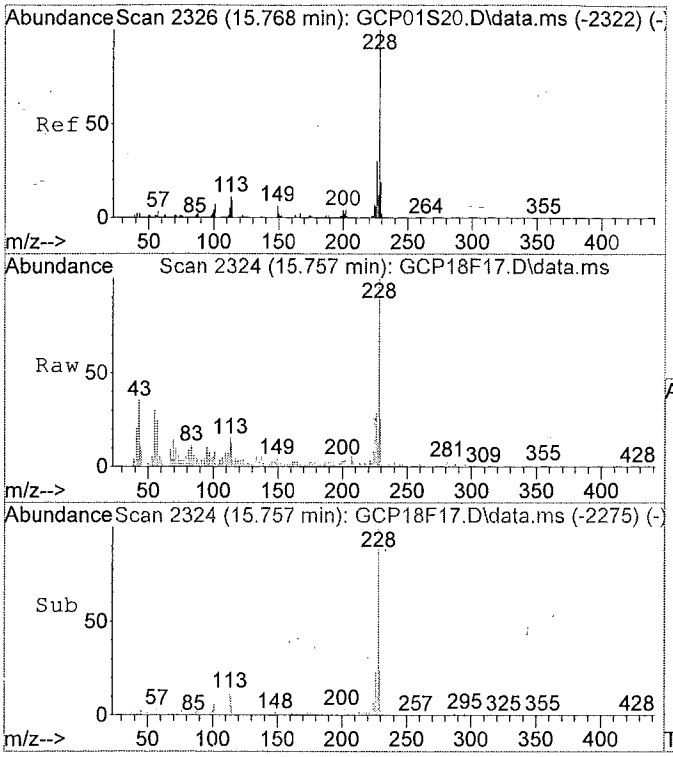


#78
Benzo(a)anthracene
Concen: 1.06 ug/ml
RT: 15.71 min Scan# 2316
Delta R.T. -0.01 min
Lab File: GCP18F17.D
Acq: 07/10/2015 19:47

Tgt Ion:228 Resp: 68350

Ion	Ratio	Lower	Upper
228	100		
229	27.7	13.7	25.5#
226	32.3	18.2	33.8
0	0.0	0.0	0.0

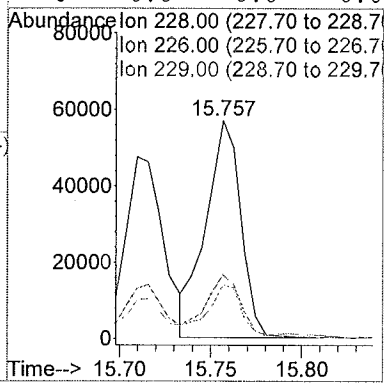


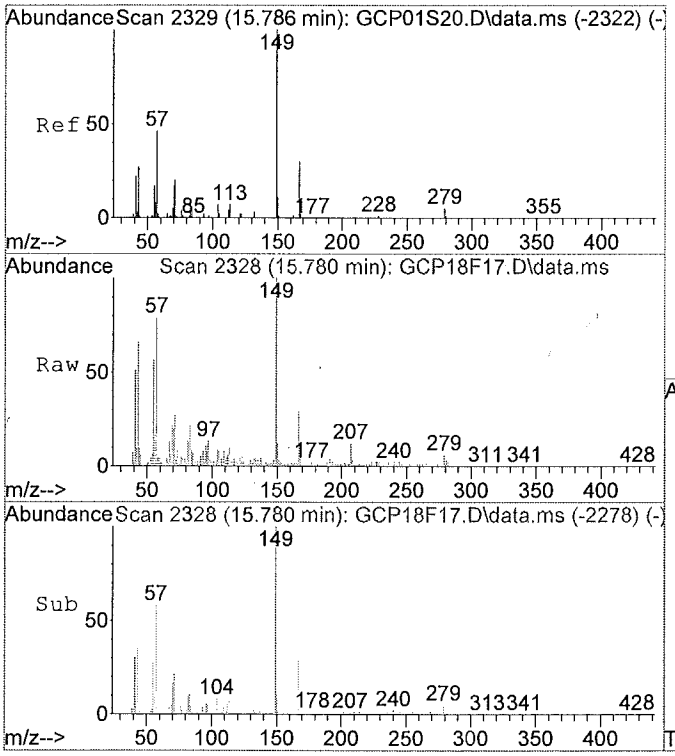


#79
Chrysene
Concen: 1.30 ug/ml
RT: 15.76 min Scan# 2324
Delta R.T. -0.01 min
Lab File: GCP18F17.D
Acq: 07/10/2015 19:47

Tgt Ion:228 Resp: 76068

Ion	Ratio	Lower	Upper
228	100		
226	29.7	20.1	37.3
229	21.3	13.7	25.5
0	0.0	0.0	0.0

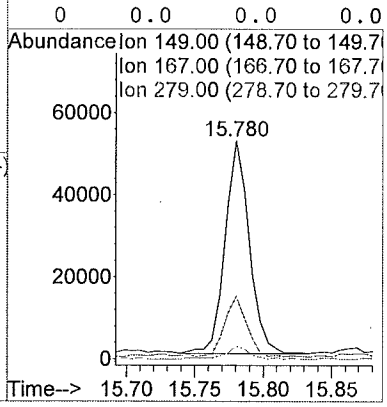


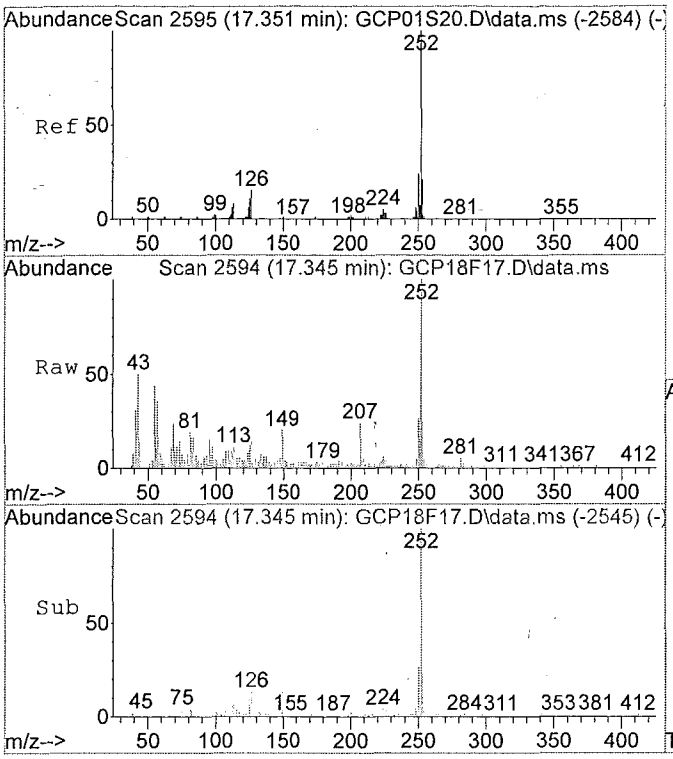


#80
Bis-(2-ethylhexyl)phthalate
Concen: 1.20 ug/ml
RT: 15.78 min Scan# 2328
Delta R.T. -0.01 min
Lab File: GCP18F17.D
Acq: 07/10/2015 19:47

Tgt Ion:149 Resp: 63344

Ion	Ratio	Lower	Upper
149	100		
167	26.9	22.0	40.8
279	5.7	5.0	9.2
0	0.0	0.0	0.0

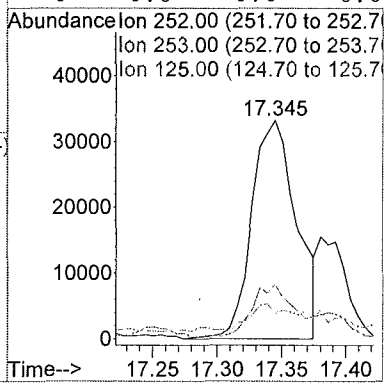


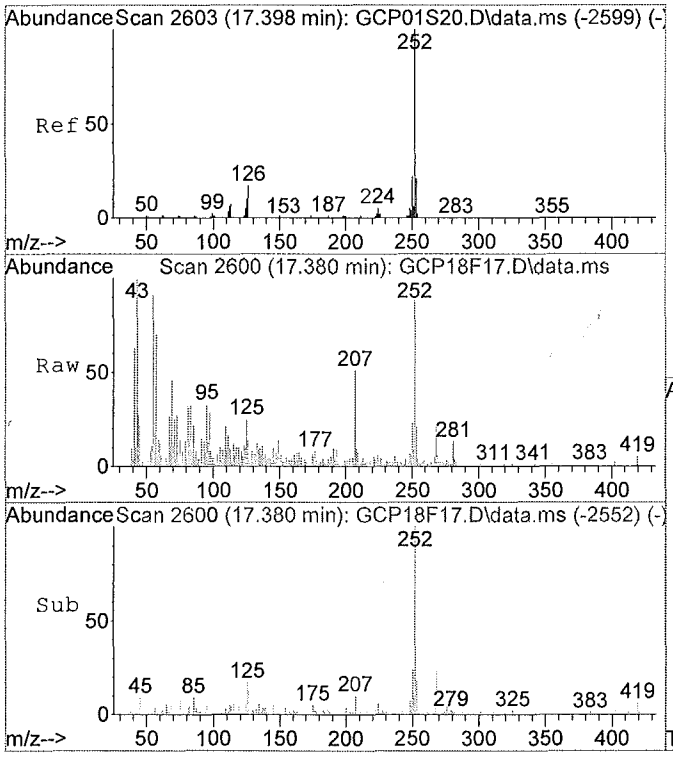


#83
Benzo(b)fluoranthene
Concen: 1.87 ug/ml
RT: 17.34 min Scan# 2594
Delta R.T. -0.01 min
Lab File: GCP18F17.D
Acq: 07/10/2015 19:47

Tgt Ion:252 Resp: 80372

Ion	Ratio	Lower	Upper
252	100		
253	21.3	15.1	28.1
125	10.0	10.6	19.8#
0	0.0	0.0	0.0

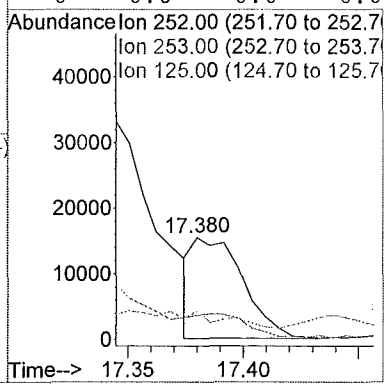


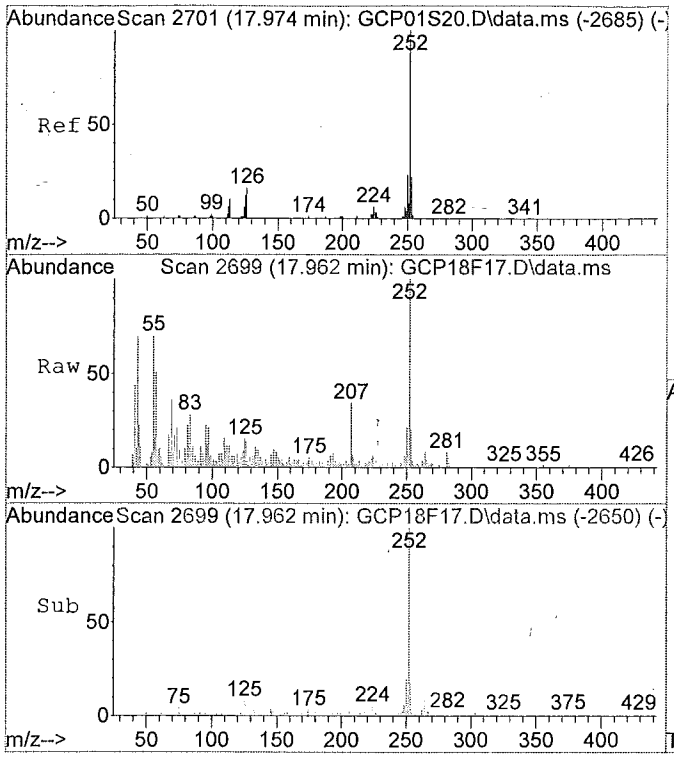


#84
Benzo(k)fluoranthene
Concen: 0.58 ug/ml m
RT: 17.38 min Scan# 2600
Delta R.T. -0.02 min
Lab File: GCP18F17.D
Acq: 07/10/2015 19:47

Tgt Ion:252 Resp: 23318

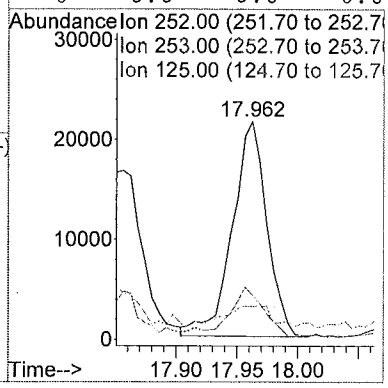
Ion	Ratio	Lower	Upper
252	100		
253	73.3	15.1	28.1#
125	34.4	10.7	19.9#
0	0.0	0.0	0.0

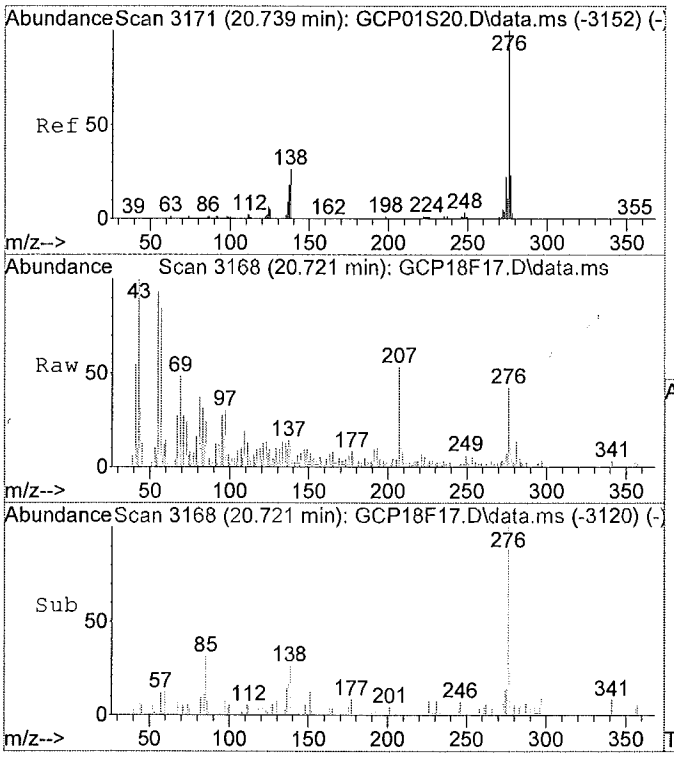




#85
Benzo(a)pyrene
Concen: 1.05 ug/ml
RT: 17.96 min Scan# 2699
Delta R.T. -0.01 min
Lab File: GCP18F17.D
Acq: 07/10/2015 19:47

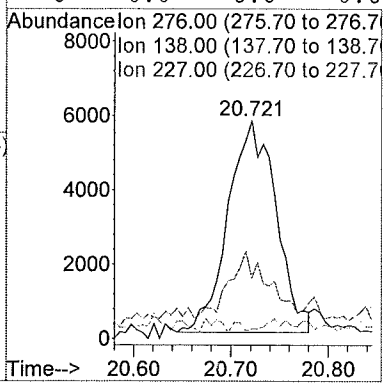
Tgt Ion:252	Resp:	42192	
Ion	Ratio	Lower	Upper
252	100		
253	21.0	15.2	28.2
125	18.2	11.8	21.8
0	0.0	0.0	0.0





#87
Indeno(1,2,3-c,d)pyrene
Concen: 0.54 ug/ml
RT: 20.72 min Scan# 3168
Delta R.T. -0.02 min
Lab File: GCP18F17.D
Acq: 07/10/2015 19:47

Tgt Ion:276	Resp:	19372	
Ion	Ratio	Lower	Upper
276	100		
138	33.7	22.3	41.5
227	1.2	0.1	0.1#
0	0.0	0.0	0.0



: 00453

Library Search Compound Report

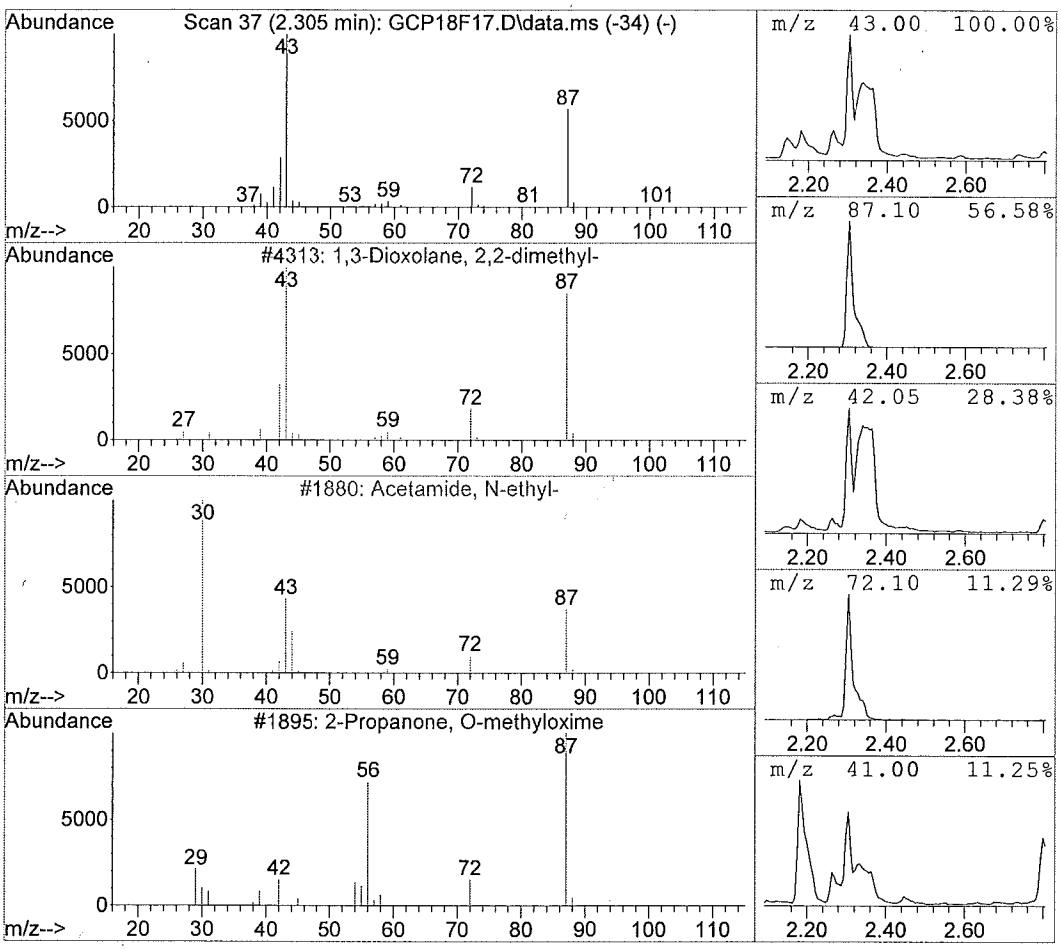
Data File : R:\G\2015\JUL15\10JUL15\GCP18F17.D
Acq On : 07/10/2015 19:47
Sample : 1515542017 F9M35
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 15
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	6.02 ug/ml	713187	1,4-Dichlorobenzene-d4	2370150

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,3-Dioxolane, 2,2-dimethyl-	4313	002916-31-6	64.00
2	Acetamide, N-ethyl-	1880	000625-50-3	40.00
3	2-Propanone, O-methyloxime	1895	003376-35-0	37.00
4	N,N-Dimethylacetamide	1886	000127-19-5	9.00
5	Oxazolidin-2-one	1845	000497-25-6	9.00



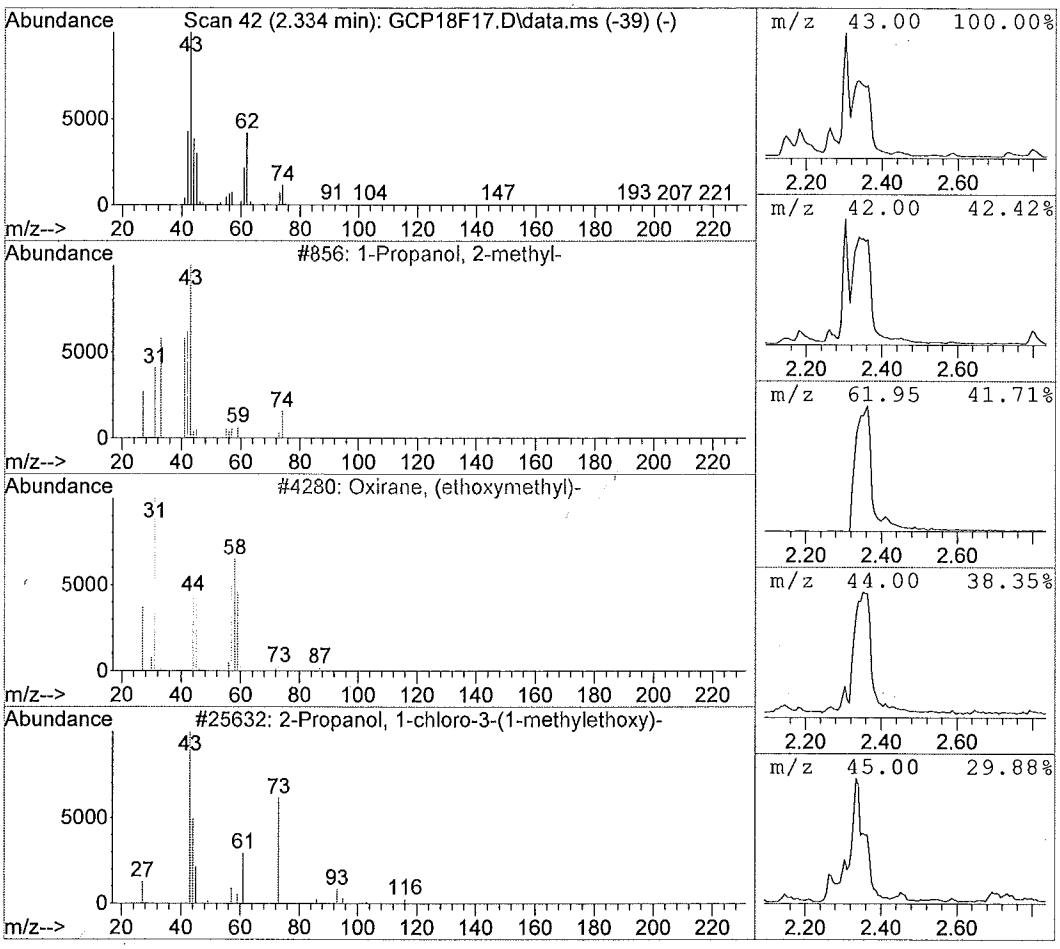
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP18F17.D Vial: 15
Acq On : 07/10/2015 19:47 Operator: TJM
Sample : 1515542017 F9M35 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
2.33	4.83 ug/ml	572738	1,4-Dichlorobenzene-d4	2370150

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Propanol, 2-methyl-	856	000078-83-1	10.00
2	Oxirane, (ethoxymethyl)-	4280	004016-11-9	9.00
3	2-Propanol, 1-chloro-3-(1-methyleth	25632	004288-84-0	9.00
4	Phosphine, acetyldimethyl-	4744	018983-86-3	9.00
5	Pyrimidine-2,4(1H,3H)-dione, 5-amin	28558	1000270-67-7	9.00



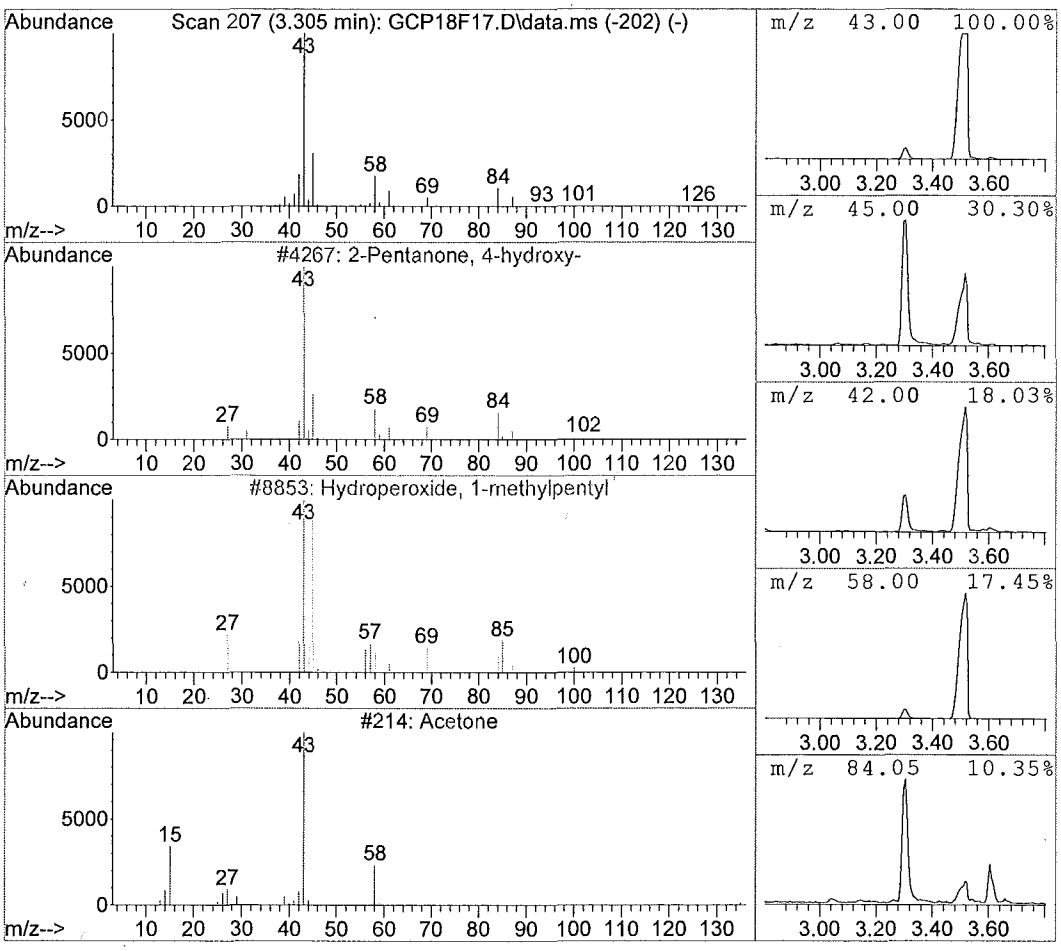
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP18F17.D Vial: 15
Acq On : 07/10/2015 19:47 Operator: TJM
Sample : 1515542017 F9M35 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	19.33 ug/ml	2290448	1,4-Dichlorobenzene-d4	2370150

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	Acetone	214	000067-64-1	9.00
4	1-Tetrazol-2-ylethanone	6198	051410-11-8	9.00
5	1-Propen-2-ol, acetate	3686	000108-22-5	9.00



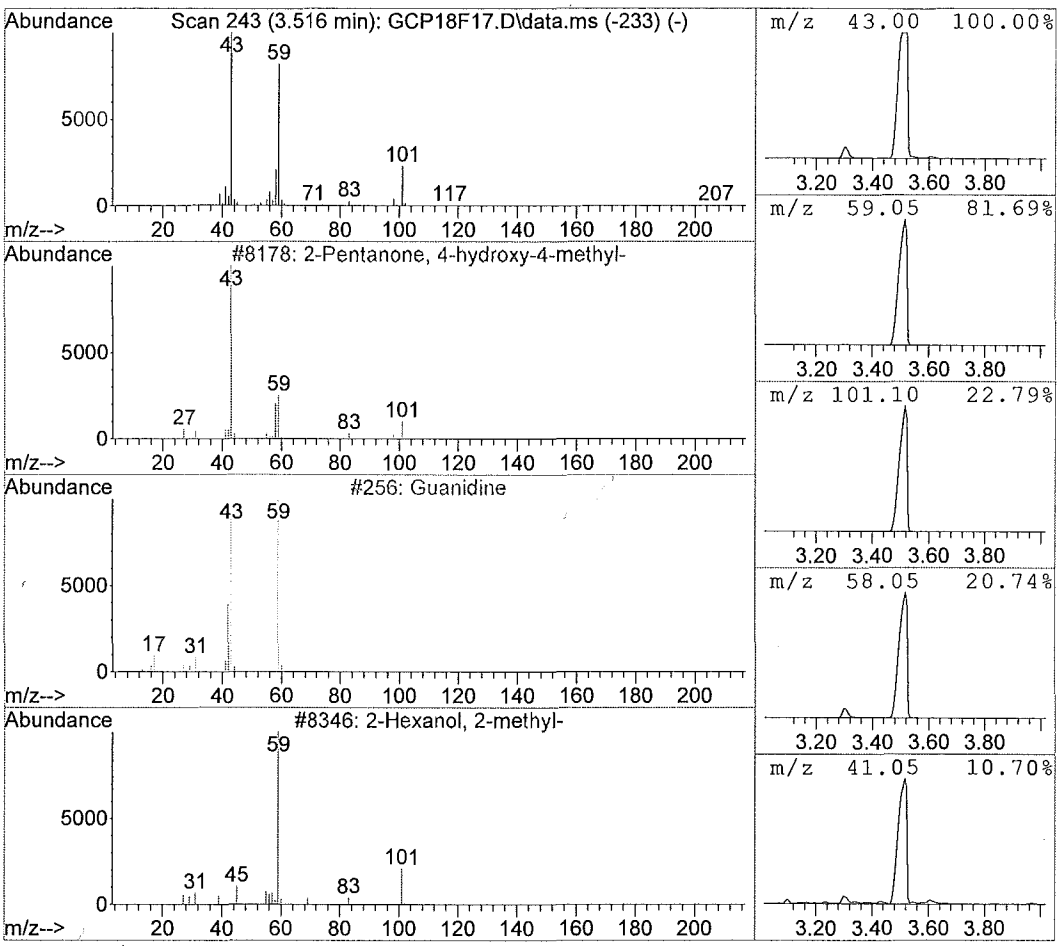
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP18F17.D Vial: 15
Acq On : 07/10/2015 19:47 Operator: TJM
Sample : 1515542017 F9M35 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
3.52	438.82 ug/ml	52003723	1,4-Dichlorobenzene-d4	2370150

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	2-Hexanol, 2-methyl-	8346	000625-23-0	36.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
5	Acetone	217	000067-64-1	9.00



Library Search Compound Report

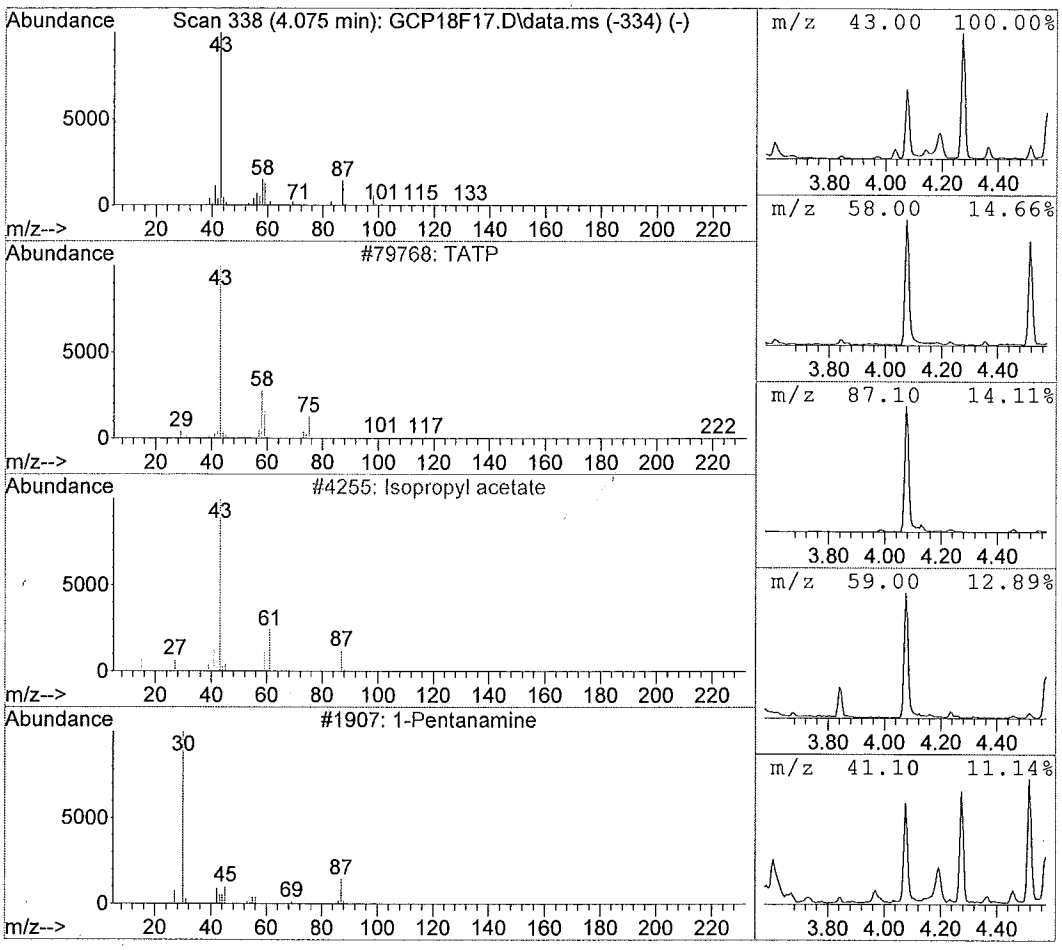
Data File : R:\G\2015\JUL15\10JUL15\GCP18F17.D
Acq On : 07/10/2015 19:47
Sample : 1515542017 F9M35
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 15
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
4.08	9.94 ug/ml	1177531	1,4-Dichlorobenzene-d4	2370150

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	TATP	79768	017088-37-8	50.00
2	Isopropyl acetate	4255	000108-21-4	25.00
3	1-Pentanamine	1907	000110-58-7	9.00
4	Acetaldehyde, O-ethyloxime-	1897	1000288-34-6	9.00
5	S-(-)-2-Methylbutylamine	1929	020626-52-2	9.00



Library Search Compound Report

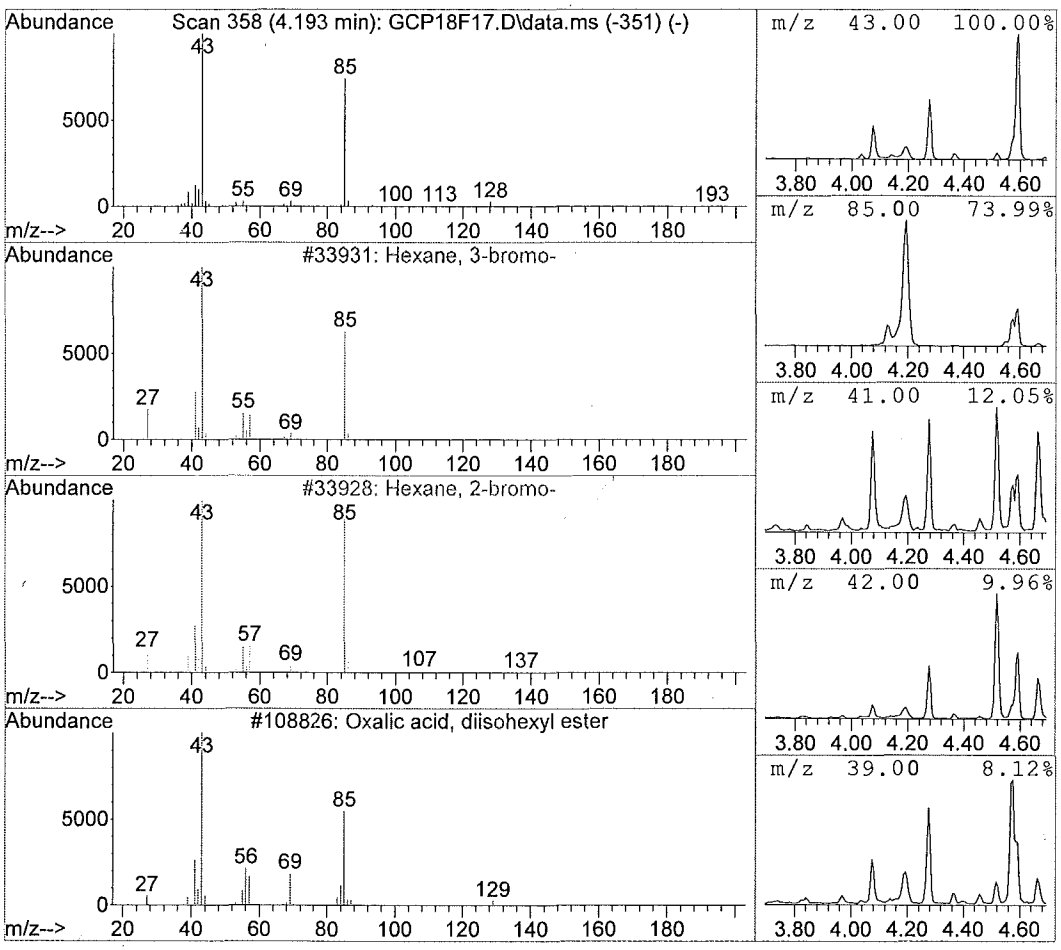
Data File : R:\G\2015\JUL15\10JUL15\GCP18F17.D
Acq On : 07/10/2015 19:47
Sample : 1515542017 F9M35
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 15
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
4.19	6.29 ug/ml	745601	1,4-Dichlorobenzene-d4	2370150

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 3-bromo-	33931	003377-87-5	72.00
2	Hexane, 2-bromo-	33928	003377-86-4	56.00
3	Oxalic acid, diisohexyl ester	108826	1000309-32-9	40.00
4	4-Methoxy-3-buten-2-one	3689	004652-27-1	38.00
5	Acetylacetone	3667	000123-54-6	36.00



Library Search Compound Report

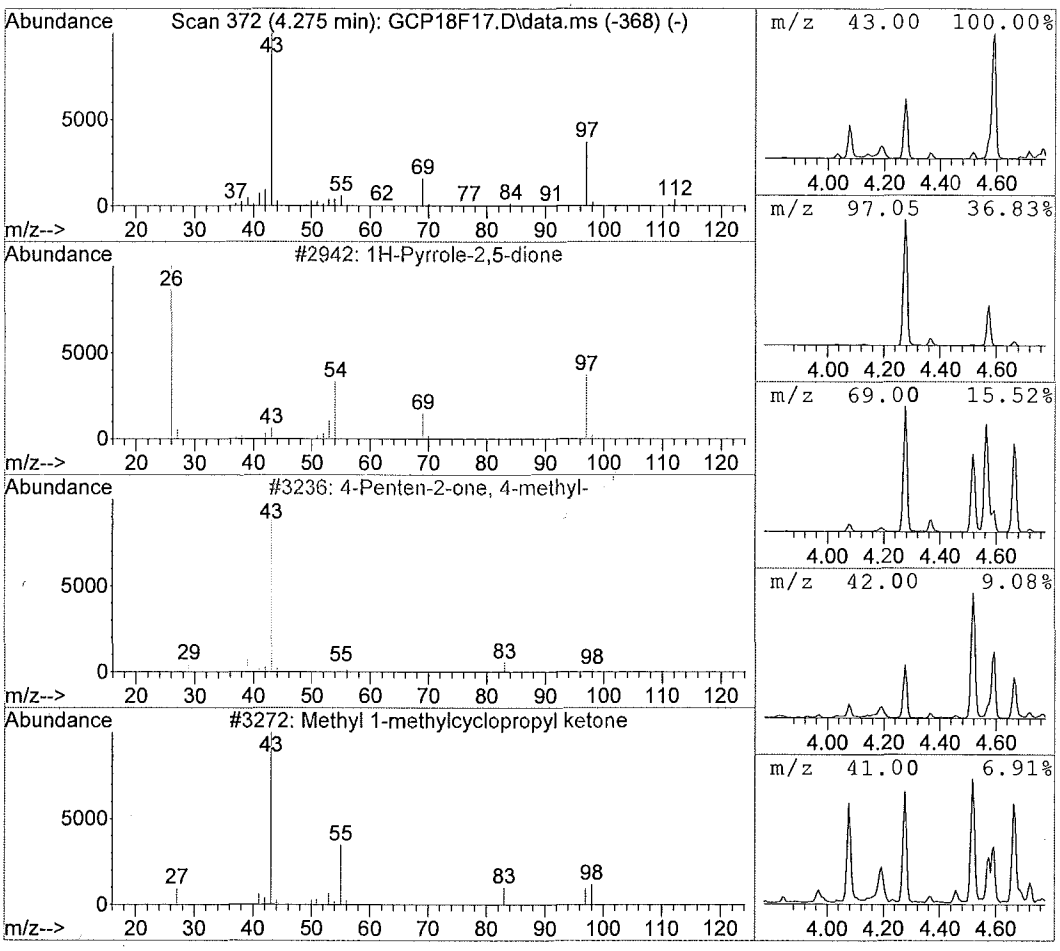
Data File : R:\G\2015\JUL15\10JUL15\GCP18F17.D
Acq On : 07/10/2015 19:47
Sample : 1515542017 F9M35
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 15
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	17.55 ug/ml	2079981	1,4-Dichlorobenzene-d4	2370150

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	37.00
2	4-Penten-2-one, 4-methyl-	3236	003744-02-3	9.00
3	Methyl 1-methylcyclopropyl ketone	3272	001567-75-5	9.00
4	5-Hexen-2-one	3158	000109-49-9	9.00
5	2-Propyn-1-ol, acetate	3098	000627-09-8	5.00



Library Search Compound Report

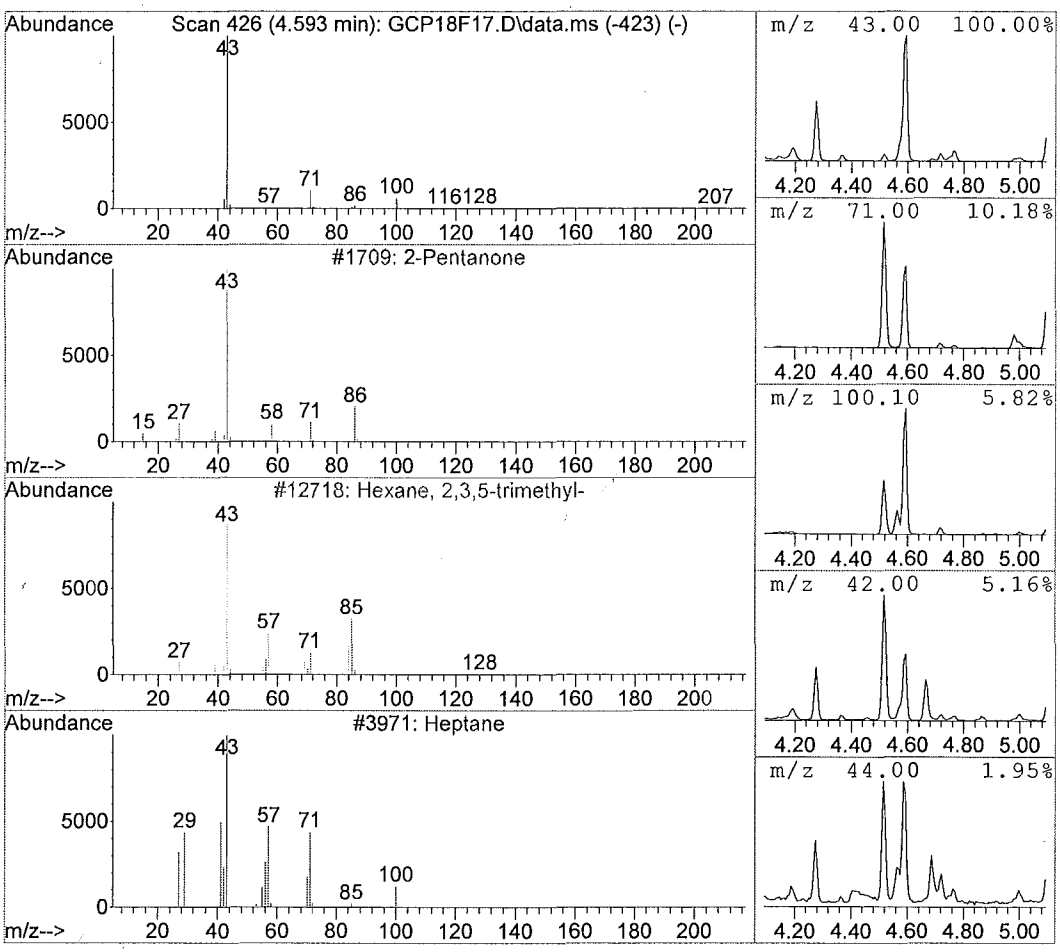
Data File : R:\G\2015\JUL15\10JUL15\GCP18F17.D
Acq On : 07/10/2015 19:47
Sample : 1515542017 F9M35
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 15
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	25.88 ug/ml	3066527	1,4-Dichlorobenzene-d4	2370150

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	Heptane	3971	000142-82-5	7.00
4	1-Propen-2-ol, acetate	3687	000108-22-5	5.00
5	2-Pentanone, 3-methyl-	3864	000565-61-7	5.00



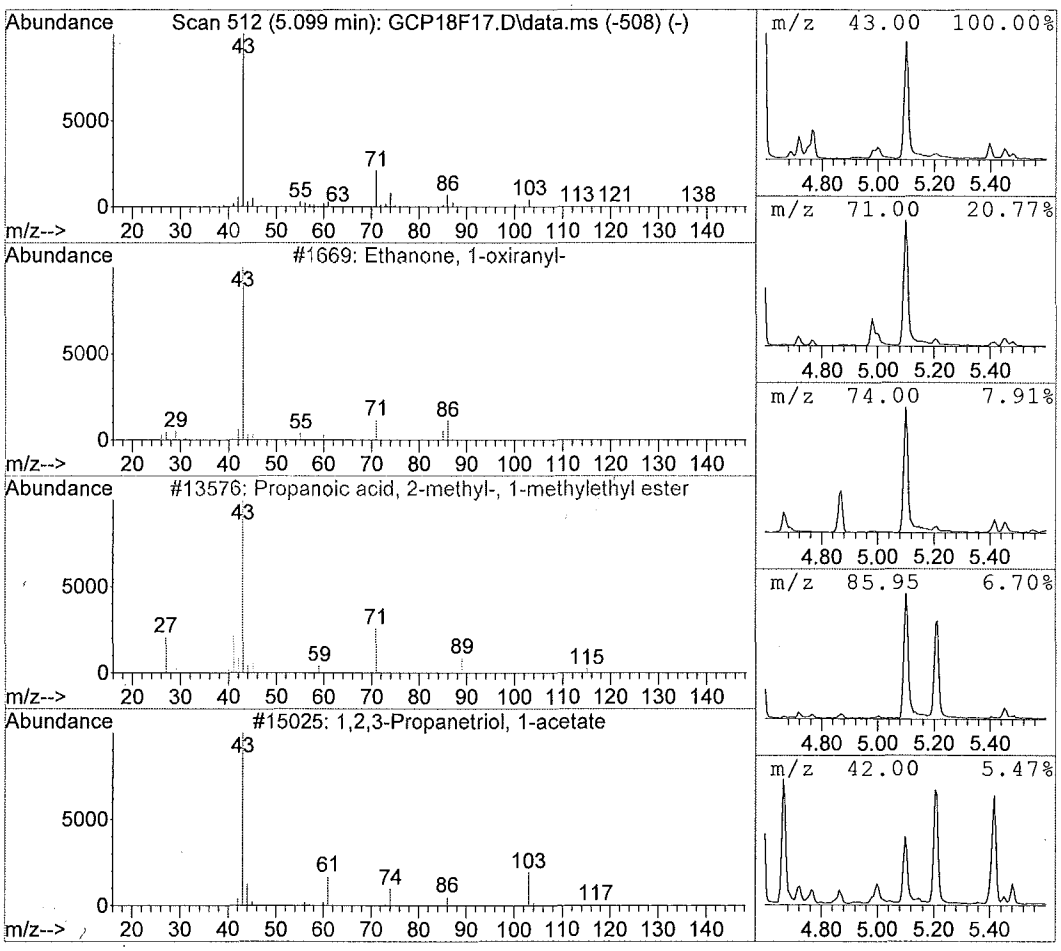
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP18F17.D Vial: 15
Acq On : 07/10/2015 19:47 Operator: TJM
Sample : 1515542017 F9M35 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
5.10	11.86 ug/ml	1405476	1,4-Dichlorobenzene-d4	2370150

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethanone, 1-oxiranyl-	1669	004401-11-0	40.00
2	Propanoic acid, 2-methyl-, 1-methyl	13576	000617-50-5	28.00
3	1,2,3-Propanetriol, 1-acetate	15025	000106-61-6	23.00
4	2-Propanone, 1-hydroxy-	817	000116-09-6	22.00
5	Butanal, 2-ethyl-	3806	000097-96-1	9.00



Library Search Compound Report

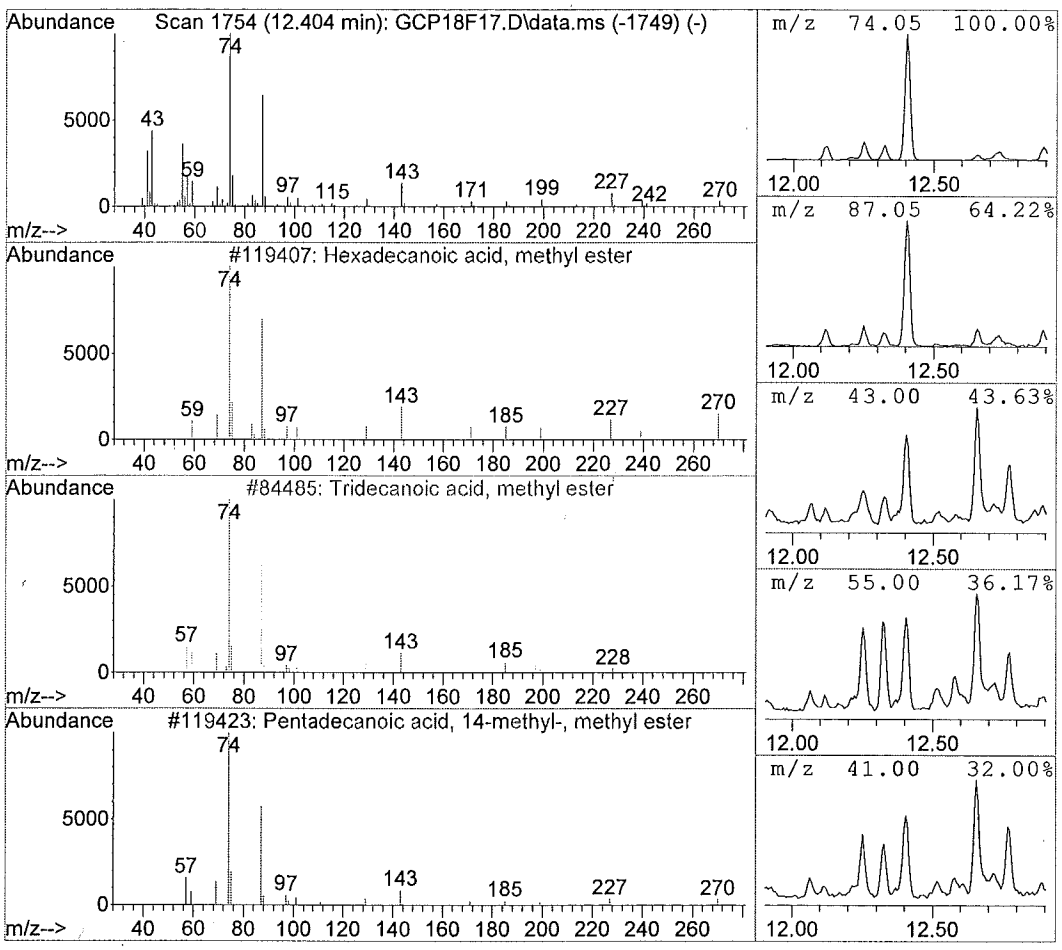
Data File : R:\G\2015\JUL15\10JUL15\GCP18F17.D
Acq On : 07/10/2015 19:47
Sample : 1515542017 F9M35
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 15
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	3.89 ug/ml	575073	Phenanthrene-d10	2954968

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanoic acid, methyl ester	119407	000112-39-0	94.00
2	Tridecanoic acid, methyl ester	84485	001731-88-0	94.00
3	Pentadecanoic acid, 14-methyl-, met	119423	005129-60-2	94.00
4	Dodecanoic acid, methyl ester	72687	000111-82-0	90.00
5	Hexadecanoic acid, 15-methyl-, meth	131317	006929-04-0	90.00



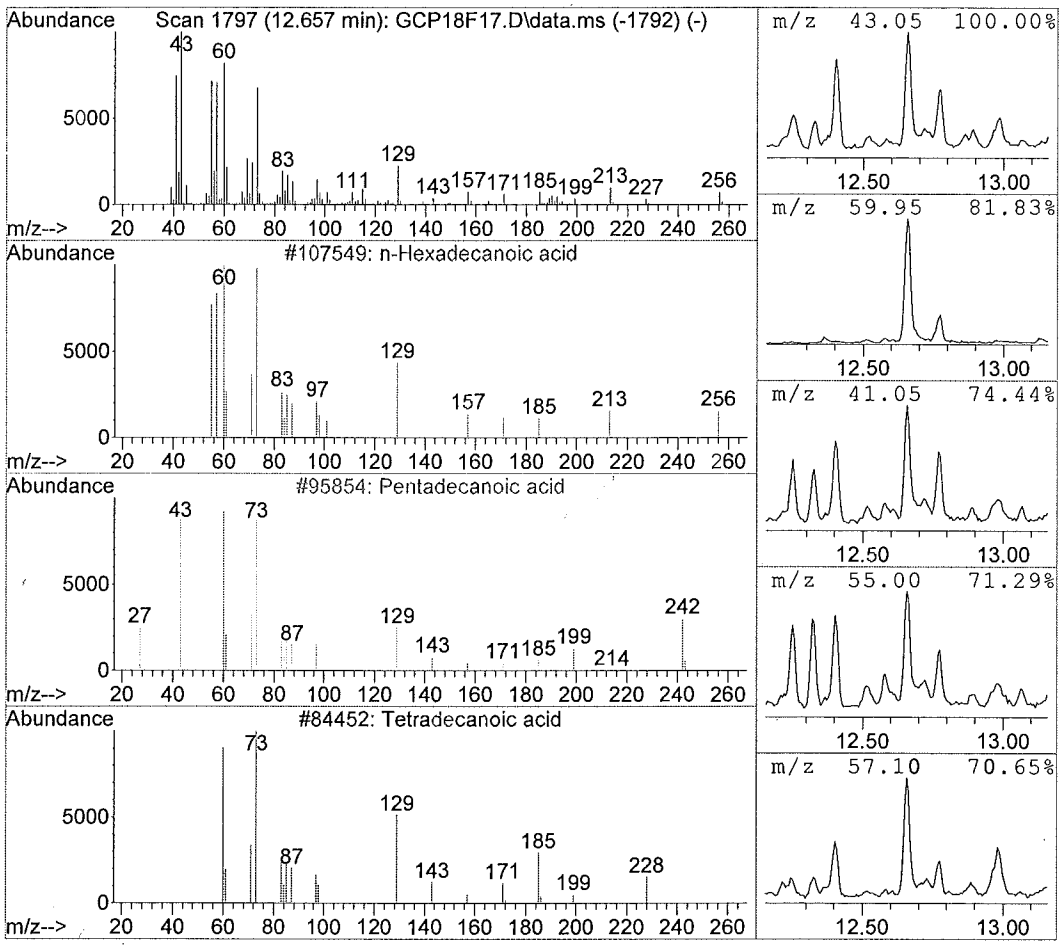
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP18F17.D Vial: 15
Acq On : 07/10/2015 19:47 Operator: TJM
Sample : 1515542017 F9M35 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	5.69 ug/ml	840020	Phenanthrene-d10	2954968

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	n-Hexadecanoic acid	107549	000057-10-3	99.00
2	Pentadecanoic acid	95854	001002-84-2	87.00
3	Tetradecanoic acid	84452	000544-63-8	78.00
4	Tridecanoic acid	72646	000638-53-9	64.00
5	Undecanoic acid	50052	000112-37-8	64.00



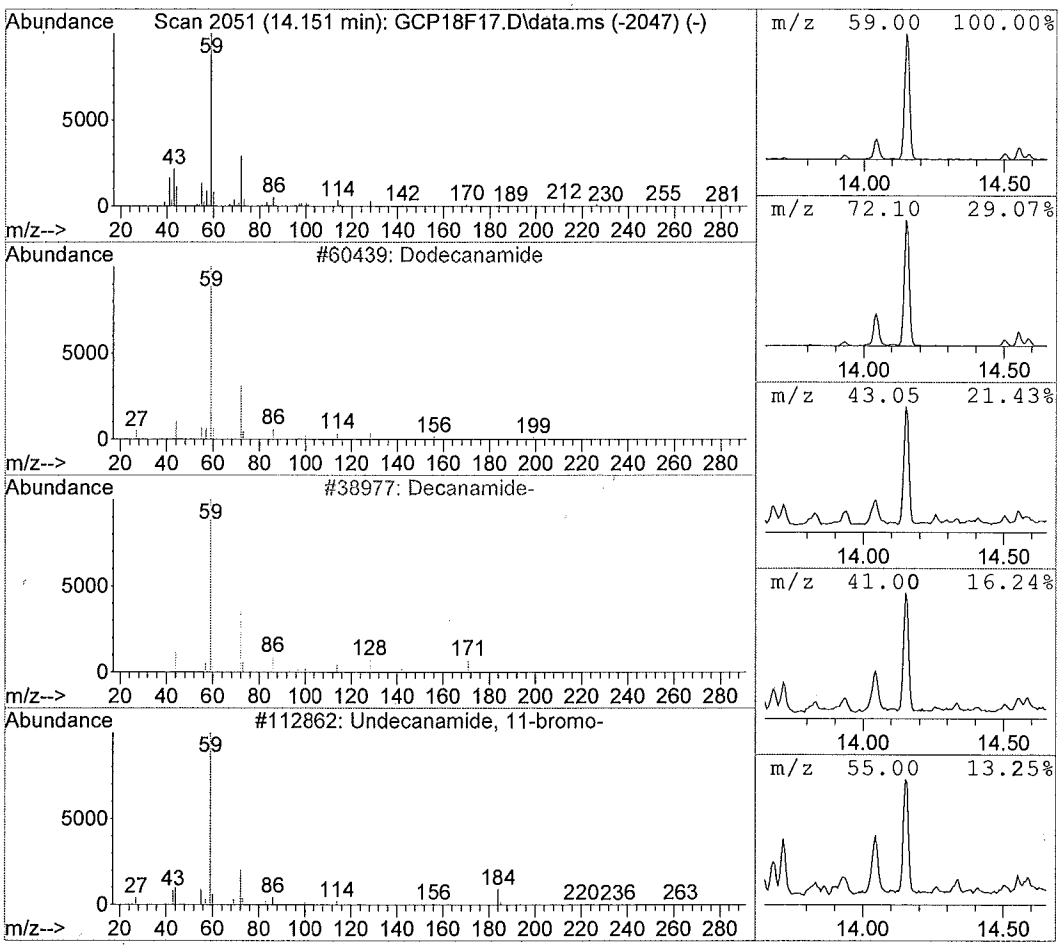
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP18F17.D Vial: 15
Acq On : 07/10/2015 19:47 Operator: TJM
Sample : 1515542017 F9M35 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	10.87 ug/ml	1674864	Chrysene-d12	3081089

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	Nonanamide	29478	001120-07-6	83.00
5	Pentanamide	4064	000626-97-1	78.00



Library Search Compound Report

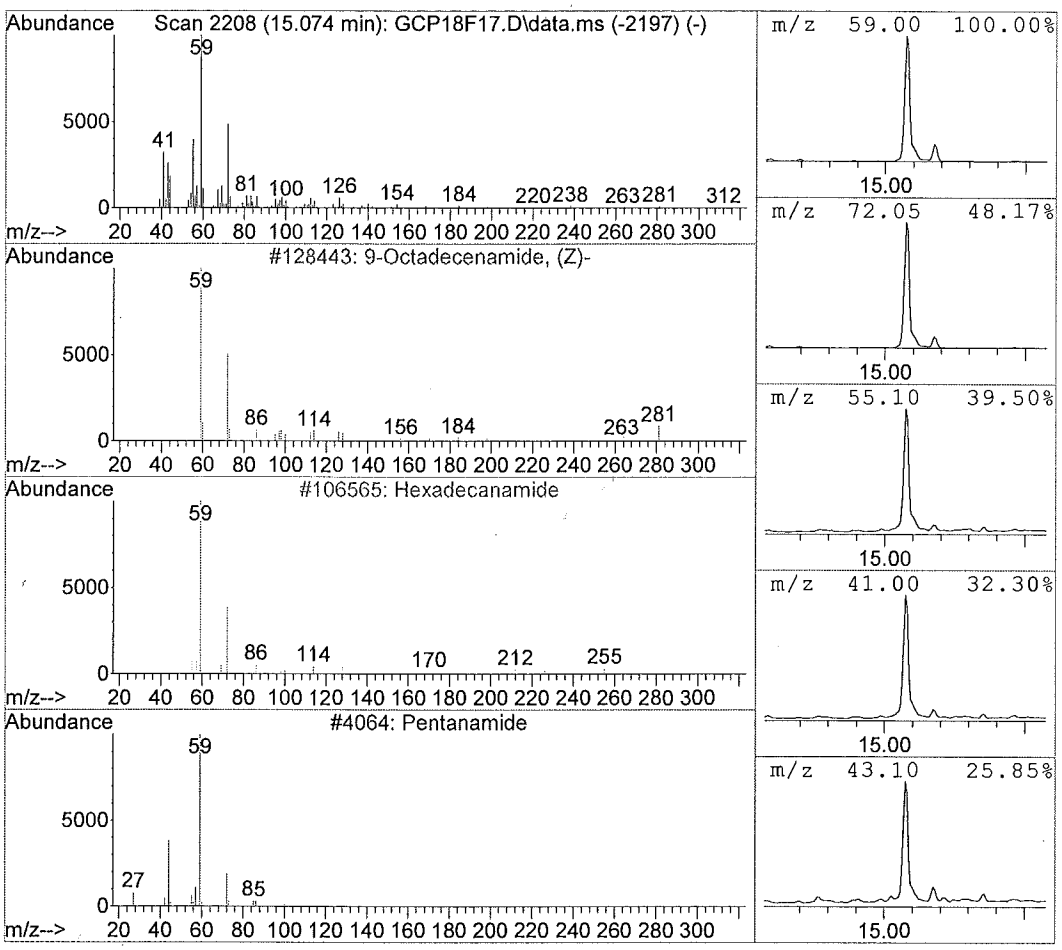
Data File : R:\G\2015\JUL15\10JUL15\GCP18F17.D
Acq On : 07/10/2015 19:47
Sample : 1515542017 F9M35
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 15
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	52.92 ug/ml	8152597	Chrysene-d12	3081089

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	94.00
2	Hexadecanamide	106565	000629-54-9	72.00
3	Pentanamide	4064	000626-97-1	59.00
4	Tetradecanamide	83608	000638-58-4	56.00
5	Nonanamide	29478	001120-07-6	50.00



Library Search Compound Report

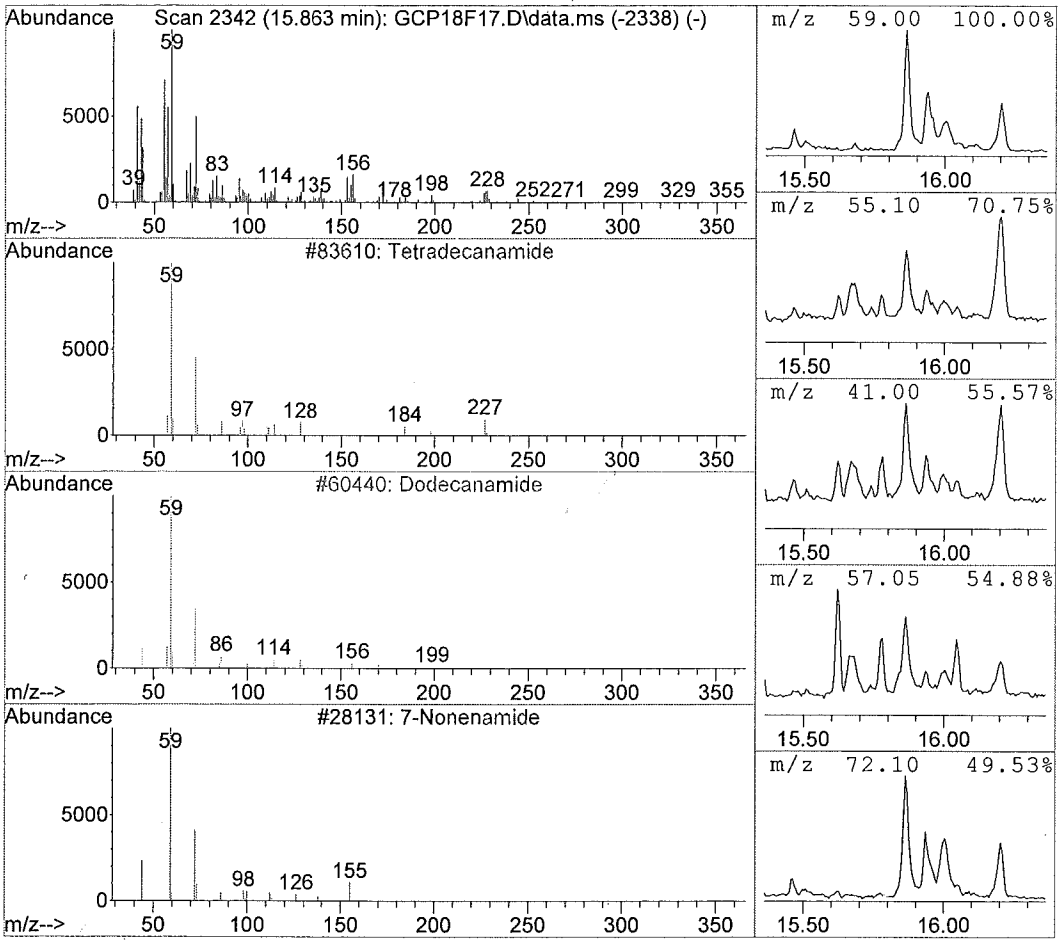
Data File : R:\G\2015\JUL15\10JUL15\GCP18F17.D
Acq On : 07/10/2015 19:47
Sample : 1515542017 F9M35
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 15
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	4.65 ug/ml	716178	Chrysene-d12	3081089

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83610	000638-58-4	76.00
2	Dodecanamide	60440	001120-16-7	76.00
3	7-Nonenamide	28131	090949-53-4	68.00
4	9-Octadecenamide, (Z)-	128445	000301-02-0	64.00
5	Decanamide-	38977	002319-29-1	53.00



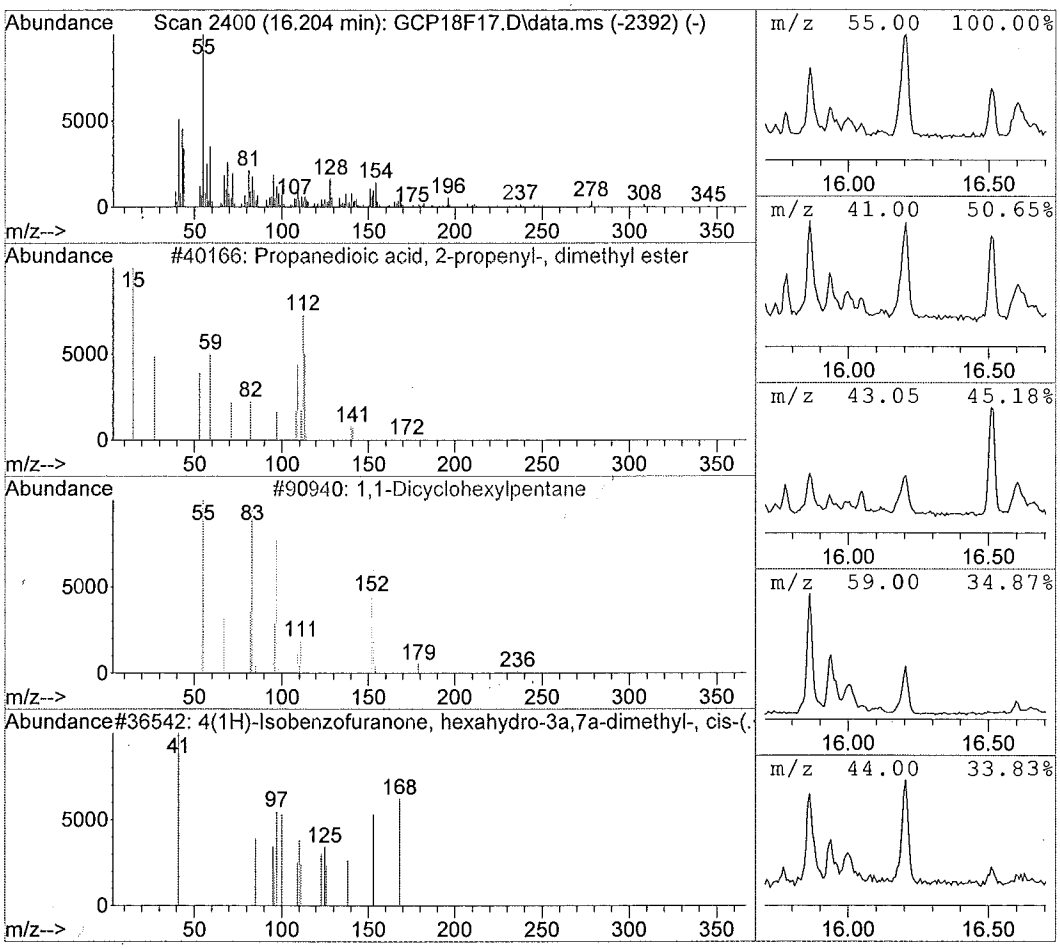
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP18F17.D Vial: 15
Acq On : 07/10/2015 19:47 Operator: TJM
Sample : 1515542017 F9M35 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	7.10 ug/ml	1094109	Chrysene-d12	3081089

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propanedioic acid, 2-propenyl-, dim	40166	040637-56-7	11.00
2	1,1-Dicyclohexylpentane	90940	054833-30-6	11.00
3	4(1H)-Isobenzofuranone, hexahydro-3	36542	054346-05-3	11.00
4	Butanoic acid, 3-methyl-2-methylene	12343	003070-67-5	10.00
5	Acetamide, N-hexyl-	20319	007501-79-3	10.00



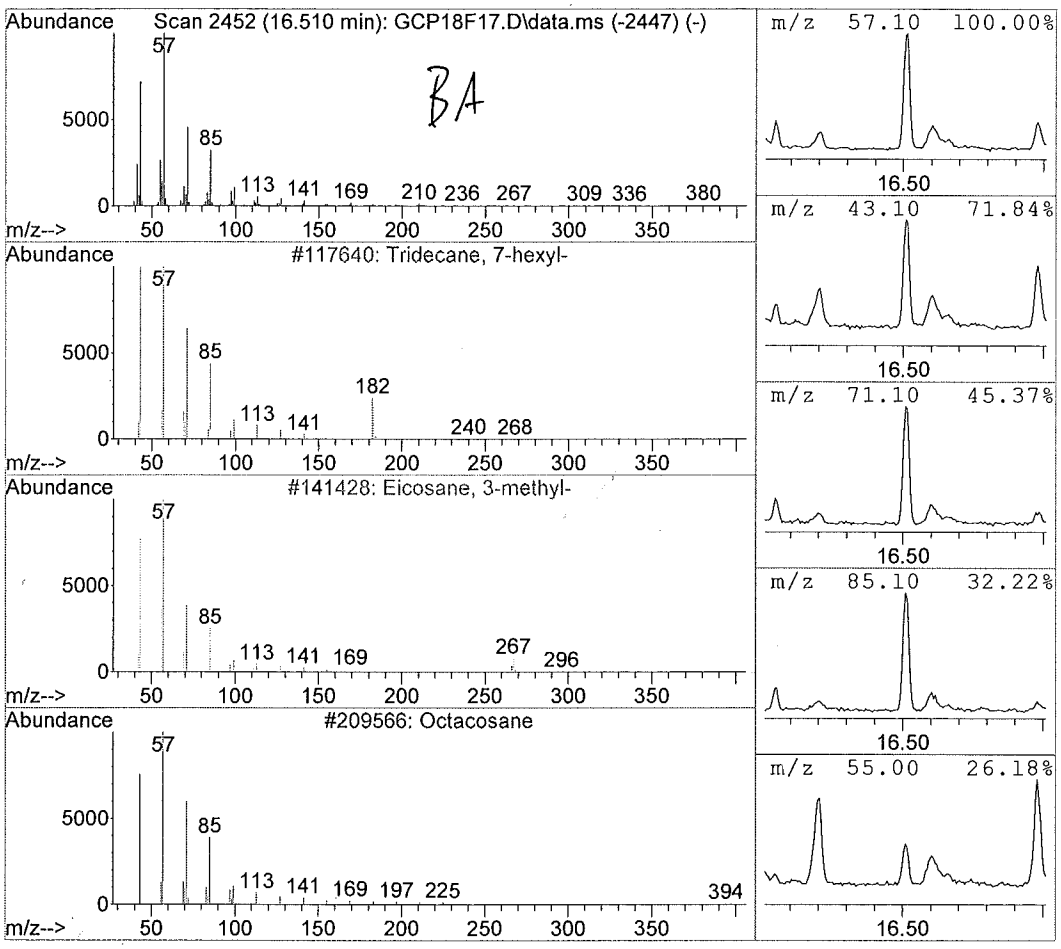
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP18F17.D Vial: 15
Acq On : 07/10/2015 19:47 Operator: TJM
Sample : 1515542017 F9M35 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	5.50 ug/ml	846560	Chrysene-d12	3081089

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tridecane, 7-hexyl-	117640	007225-66-3	94.00
2	Eicosane, 3-methyl-	141428	006418-46-8	93.00
3	Octacosane	209566	000630-02-4	91.00
4	Heptadecane, 3-methyl-	105891	006418-44-6	90.00
5	Tridecane, 2-methyl-	59889	001560-96-9	90.00



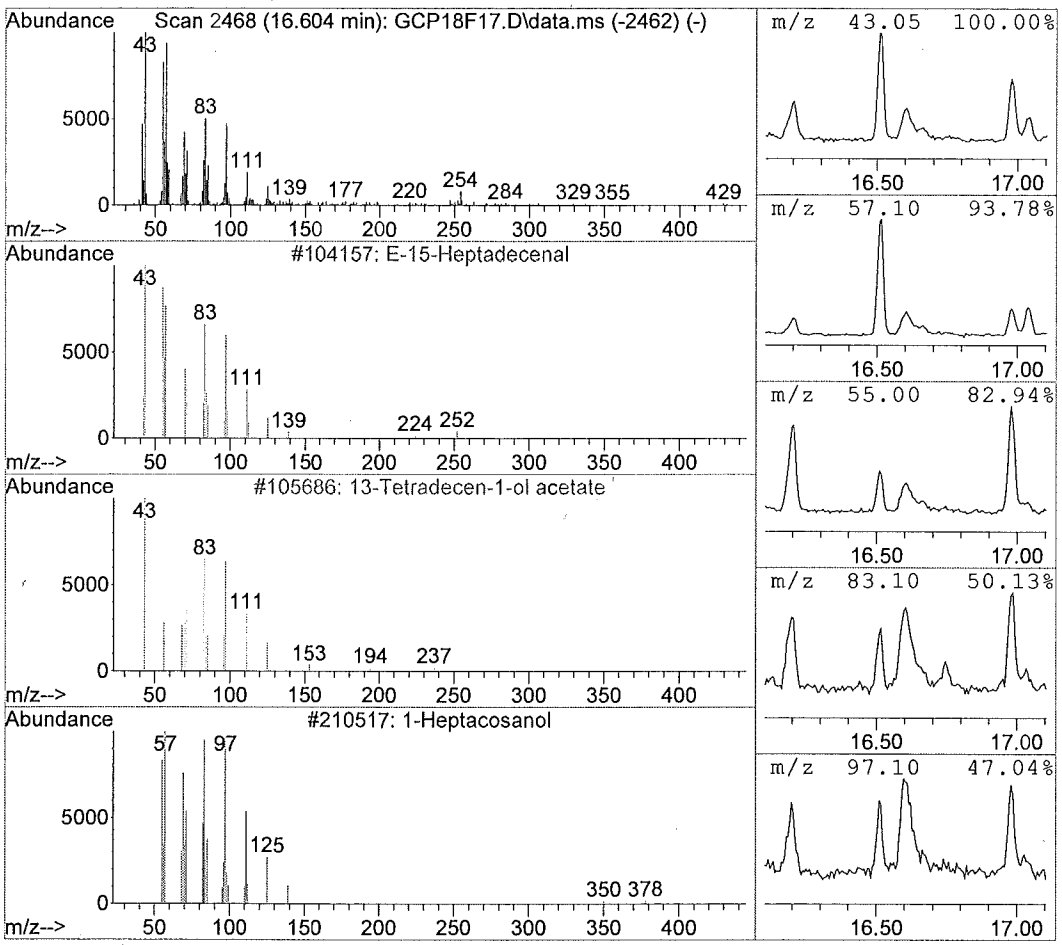
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP18F17.D Vial: 15
Acq On : 07/10/2015 19:47 Operator: TJM
Sample : 1515542017 F9M35 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	3.71 ug/ml	571046	Chrysene-d12	3081089

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	E-15-Heptadecenal	104157	1000130-97-9	76.00
2	13-Tetradecen-1-ol acetate	105686	056221-91-1	74.00
3	1-Heptacosanol	210517	002004-39-9	74.00
4	1-Docosene	151538	001599-67-3	68.00
5	Behenic alcohol	166292	000661-19-8	64.00



Library Search Compound Report

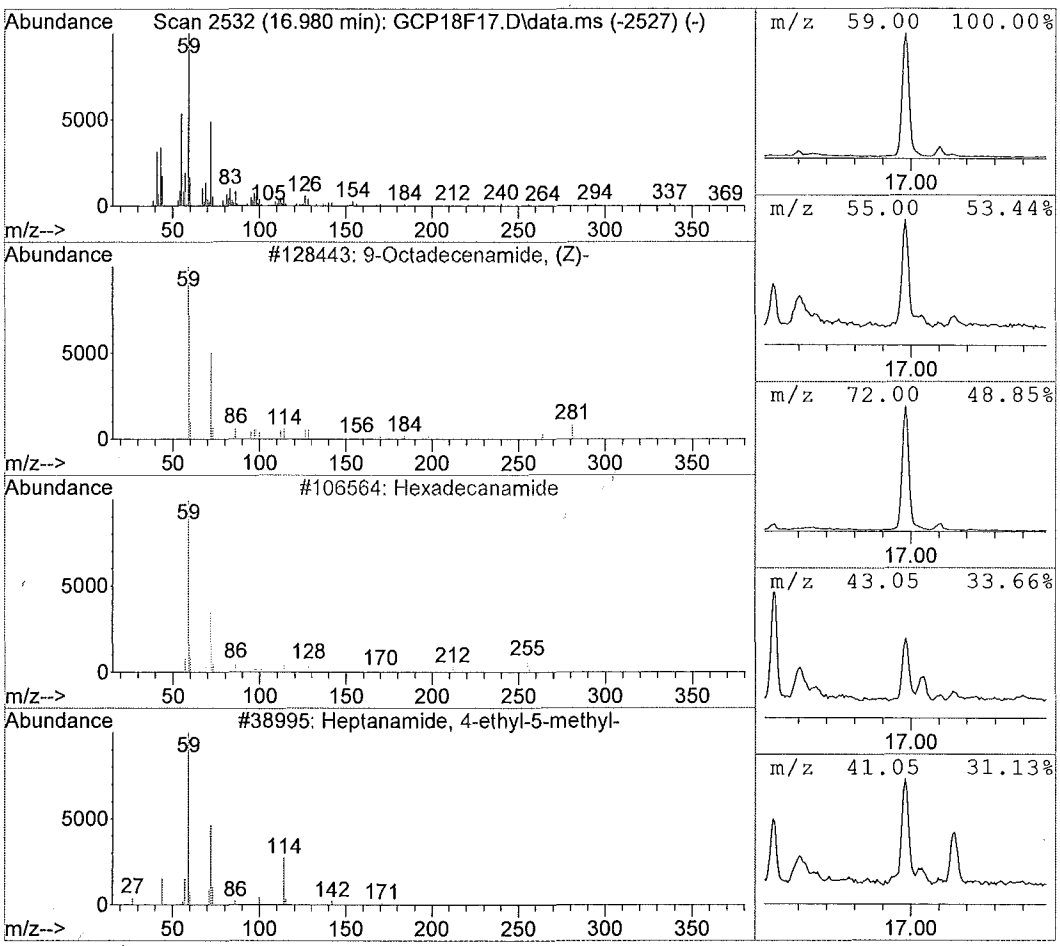
Data File : R:\G\2015\JUL15\10JUL15\GCP18F17.D
Acq On : 07/10/2015 19:47
Sample : 1515542017 F9M35
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 15
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	12.18 ug/ml	1283104	Perylene-d12	2107032

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	86.00
2	Hexadecanamide	106564	000629-54-9	72.00
3	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	56.00
4	Nonanamide	29478	001120-07-6	53.00
5	Tetradecanamide	83608	000638-58-4	50.00



Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP18F17.D
Acq On : 07/10/2015 19:47
Sample : 1515542017 F9M35
Misc : . SOIL SOM
MS Integration Params: rteint.p

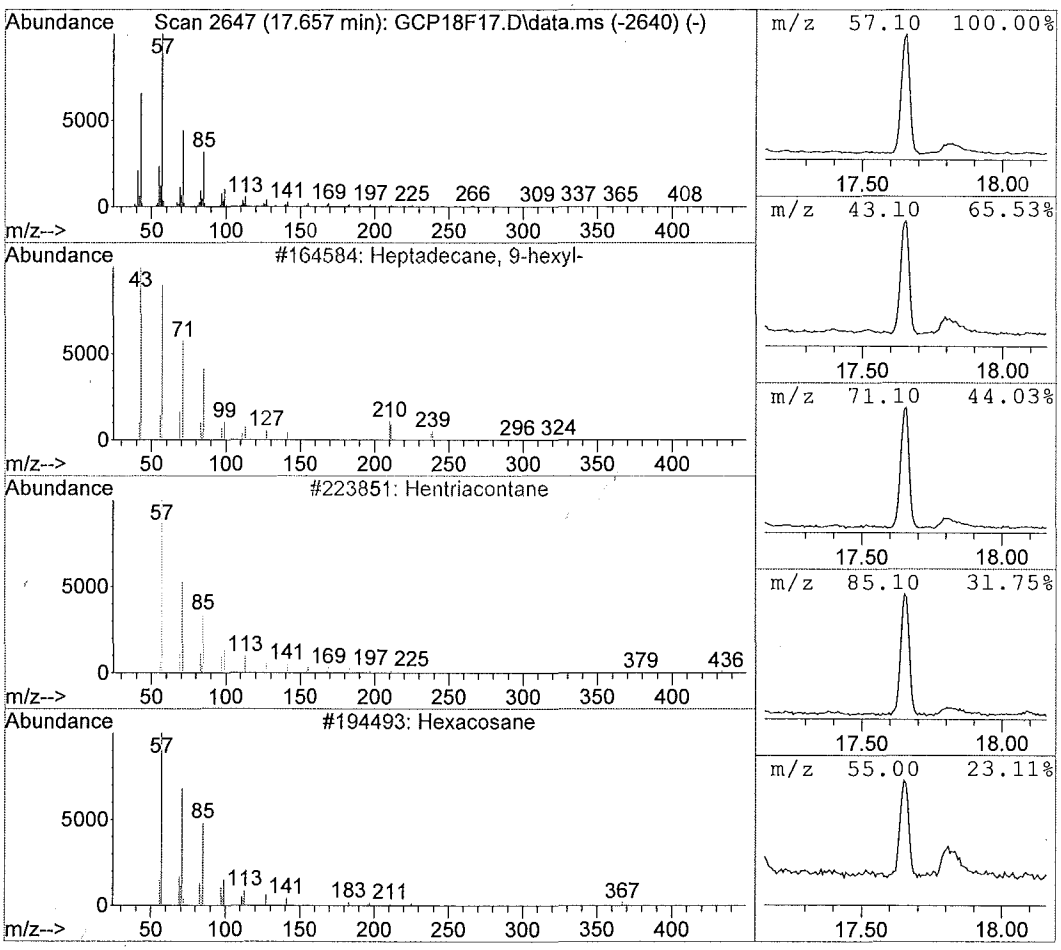
Vial: 15
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

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	16.40 ug/ml	1728145	Perylene-d12	2107032

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptadecane, 9-hexyl-	164584	055124-79-3	93.00
2	Hentriacontane	223851	000630-04-6	91.00
3	Hexacosane	194493	000630-01-3	90.00
4	Eicosane	129492	000112-95-8	90.00
5	Hexadecane, 3-methyl-	94351	006418-43-5	87.00

BA



Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP18F17.D
Acq On : 07/10/2015 19:47
Sample : 1515542017 F9M35
Misc : . SOIL SOM
MS Integration Params: rteint.p

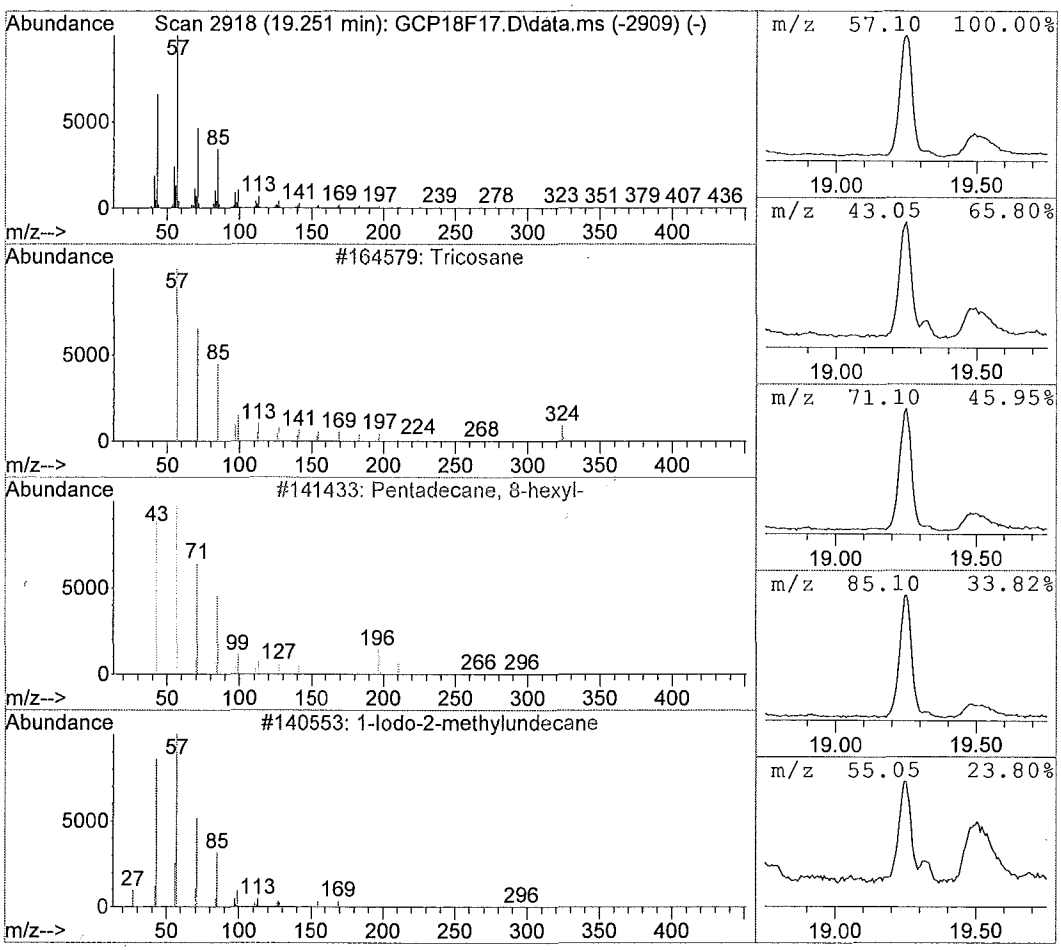
Vial: 15
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

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
19.25	24.32 ug/ml	2562469	Perylene-d12	2107032

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tricosane	164579	000638-67-5	93.00
2	Pentadecane, 8-hexyl-	141433	013475-75-7	91.00
3	1-Iodo-2-methylundecane	140553	073105-67-6	91.00
4	Eicosane, 10-methyl-	141431	054833-23-7	91.00
5	Hentriacontane	223852	000630-04-6	91.00

SCA



Library Search Compound Report

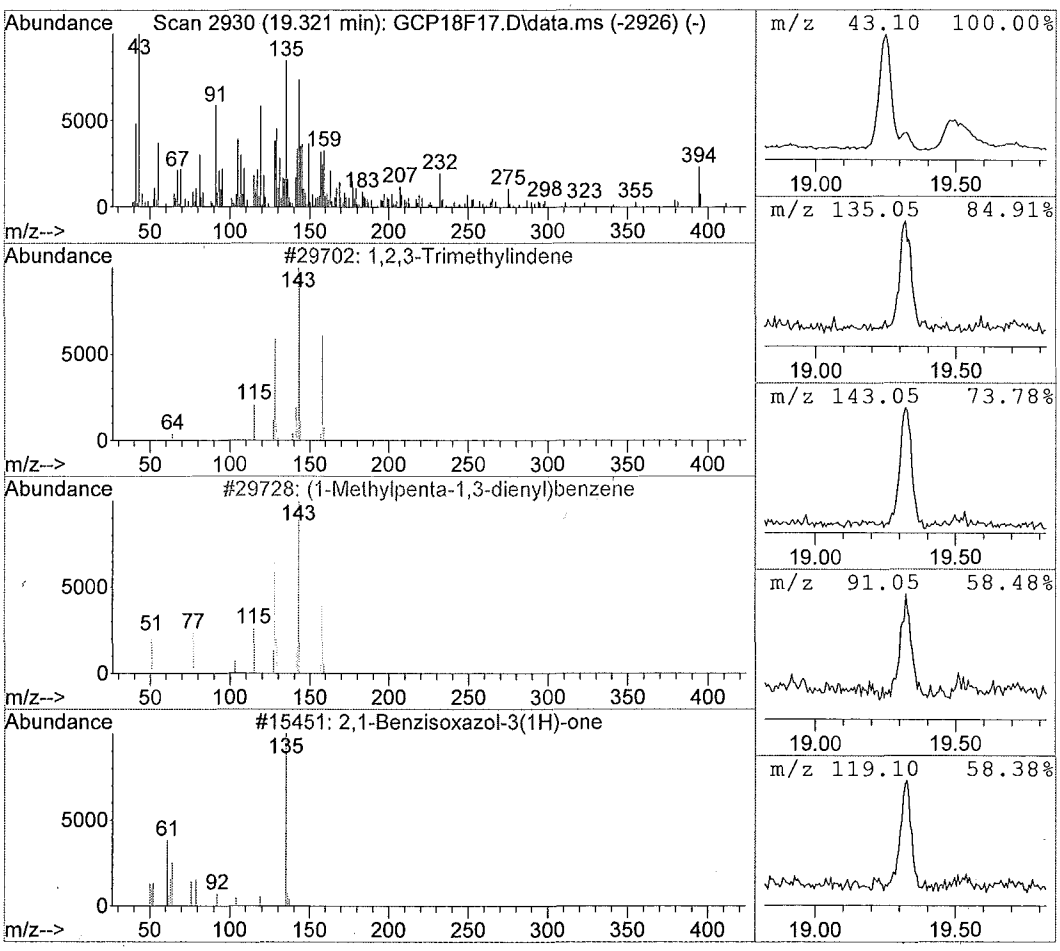
Data File : R:\G\2015\JUL15\10JUL15\GCP18F17.D
Acq On : 07/10/2015 19:47
Sample : 1515542017 F9M35
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 15
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
19.32	6.52 ug/ml	686633	Perylene-d12	2107032

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2,3-Trimethylindene	29702	004773-83-5	25.00
2	(1-Methylpenta-1,3-dienyl)benzene	29728	116669-49-9	22.00
3	2,1-Benzisoxazol-3(1H)-one	15451	031499-90-8	11.00
4	Quinoline, 8-methyl-	20093	000611-32-5	11.00
5	Pyridazin-3(2H)-one, 4,5-dichloro-2	142381	1000276-78-5	11.00



Library Search Compound Report

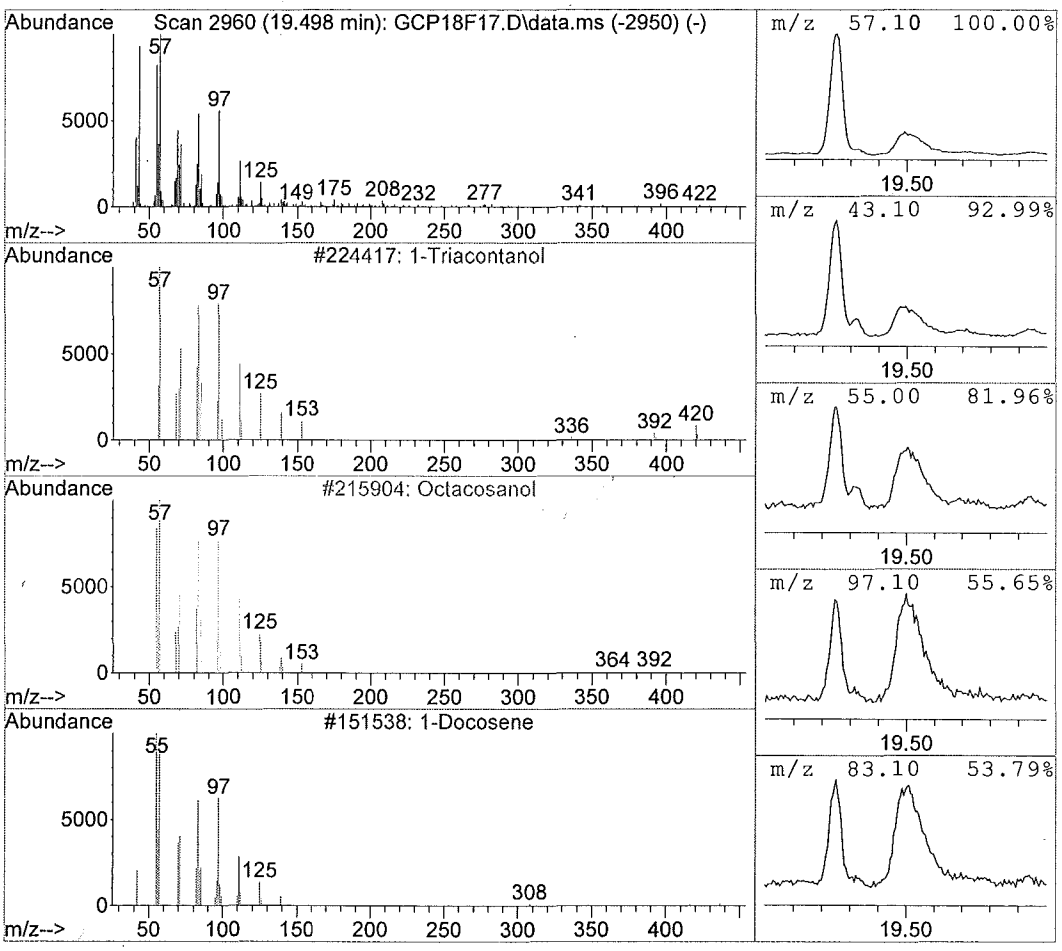
Data File : R:\G\2015\JUL15\10JUL15\GCP18F17.D
Acq On : 07/10/2015 19:47
Sample : 1515542017 F9M35
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 15
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
19.50	9.03 ug/ml	950901	Perylene-d12	2107032

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Triacontanol	224417	000593-50-0	80.00
2	Octacosanol	215904	000557-61-9	80.00
3	1-Docosene	151538	001599-67-3	80.00
4	1-Hexacosanol	203698	000506-52-5	76.00
5	1-Docosanethiol	178721	007773-83-3	76.00



Library Search Compound Report

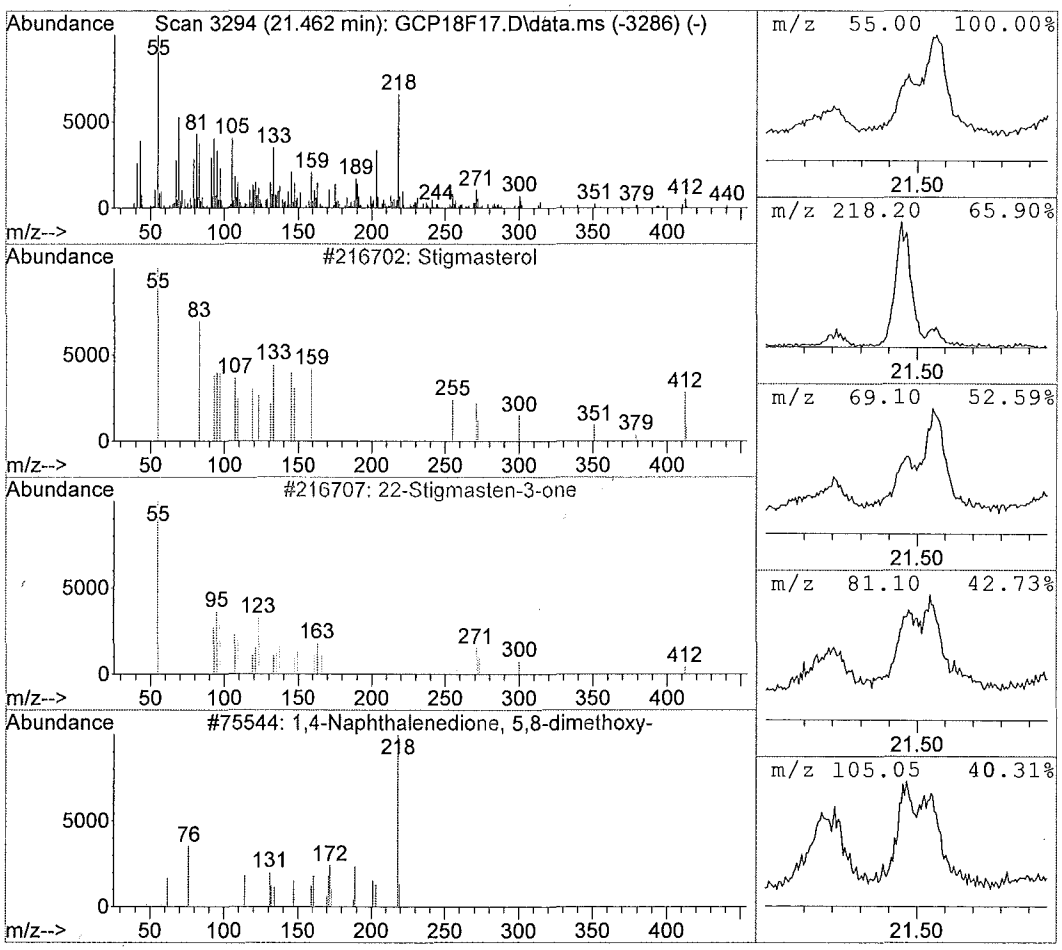
Data File : R:\G\2015\JUL15\10JUL15\GCP18F17.D
Acq On : 07/10/2015 19:47
Sample : 1515542017 F9M35
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 15
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
21.46	6.87 ug/ml	723546	Perylene-d12	2107032

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Stigmasterol	216702	000083-48-7	93.00
2	22-Stigmasten-3-one	216707	004736-95-2	49.00
3	1,4-Naphthalenedione, 5,8-dimethoxy	75544	015013-16-8	25.00
4	5(1H)-Azulenone, 2,4,6,7,8,8a-hexah	75945	006754-66-1	22.00
5	Pyrrolo[2,3-b]indole, 1,2,3,3a,8,8a	75743	046479-70-3	20.00



Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP18F17.D
Acq On : 07/10/2015 19:47
Sample : 1515542017 F9M35
Misc : . SOIL SOM
MS Integration Params: rteint.p

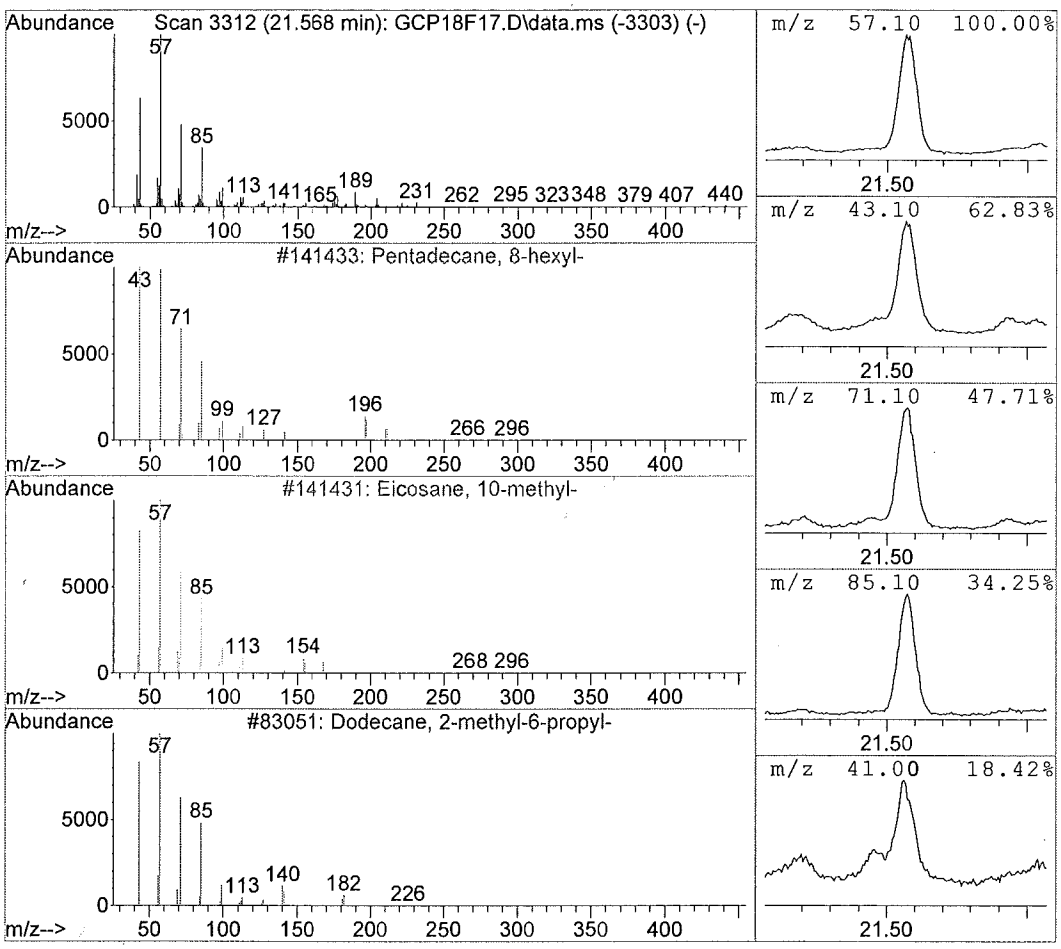
Vial: 15
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

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
21.57	35.34 ug/ml	3723235	Perylene-d12	2107032

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentadecane, 8-hexyl-	141433	013475-75-7	90.00
2	Eicosane, 10-methyl-	141431	054833-23-7	89.00
3	Dodecane, 2-methyl-6-propyl-	83051	055045-08-4	81.00
4	Tridecane, 7-propyl-	83029	055045-09-5	76.00
5	Eicosane, 3-methyl-	141428	006418-46-8	74.00

BA



: 09177

Library Search Compound Report

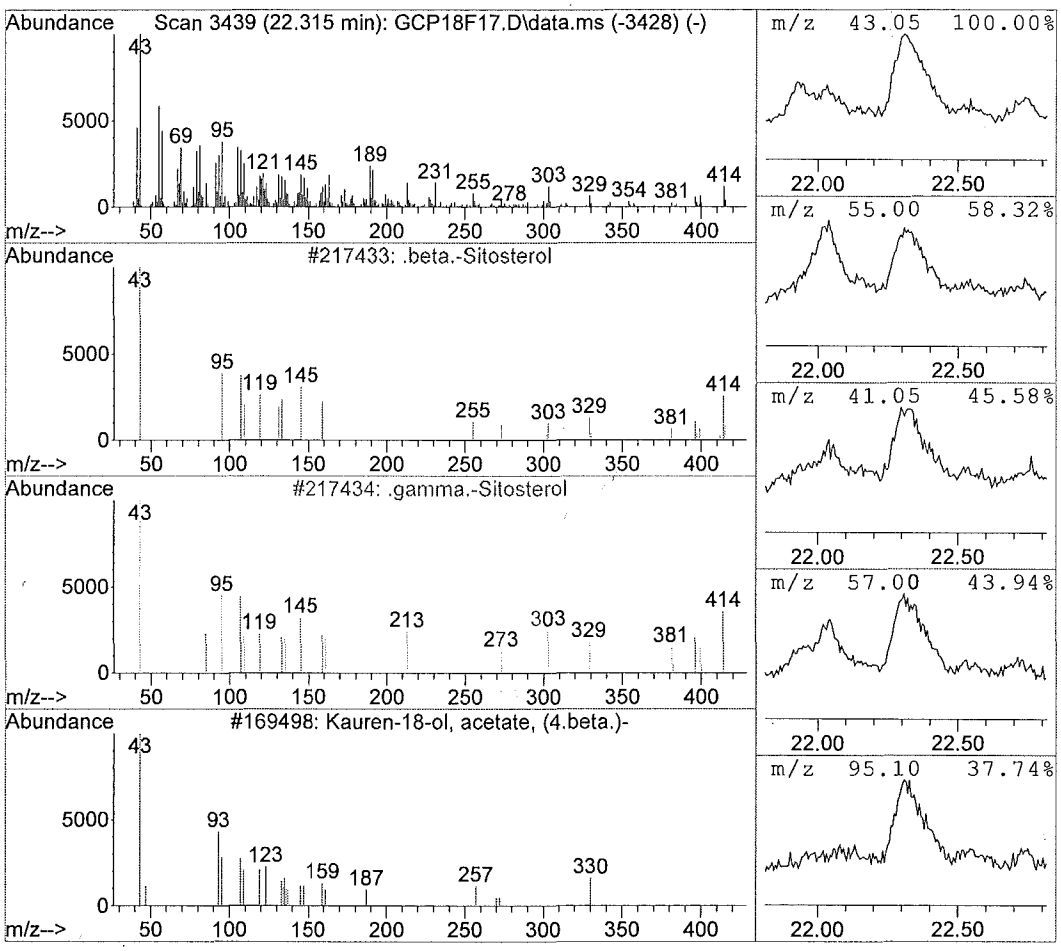
Data File : R:\G\2015\JUL15\10JUL15\GCP18F17.D
Acq On : 07/10/2015 19:47
Sample : 1515542017 F9M35
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 15
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
22.32	21.60 ug/ml	2275110	Perylene-d12	2107032

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	.beta.-Sitosterol	217433	000083-46-5	95.00
2	.gamma.-Sitosterol	217434	000083-47-6	91.00
3	Kauren-18-ol, acetate, (4.beta.)-	169498	072150-74-4	60.00
4	17-(1,5-Dimethylhexyl)-10,13-dimeth	217457	1000210-86-9	49.00
5	Ergost-5-en-3-ol, (3.beta.)-	212394	004651-51-8	38.00



: 00478

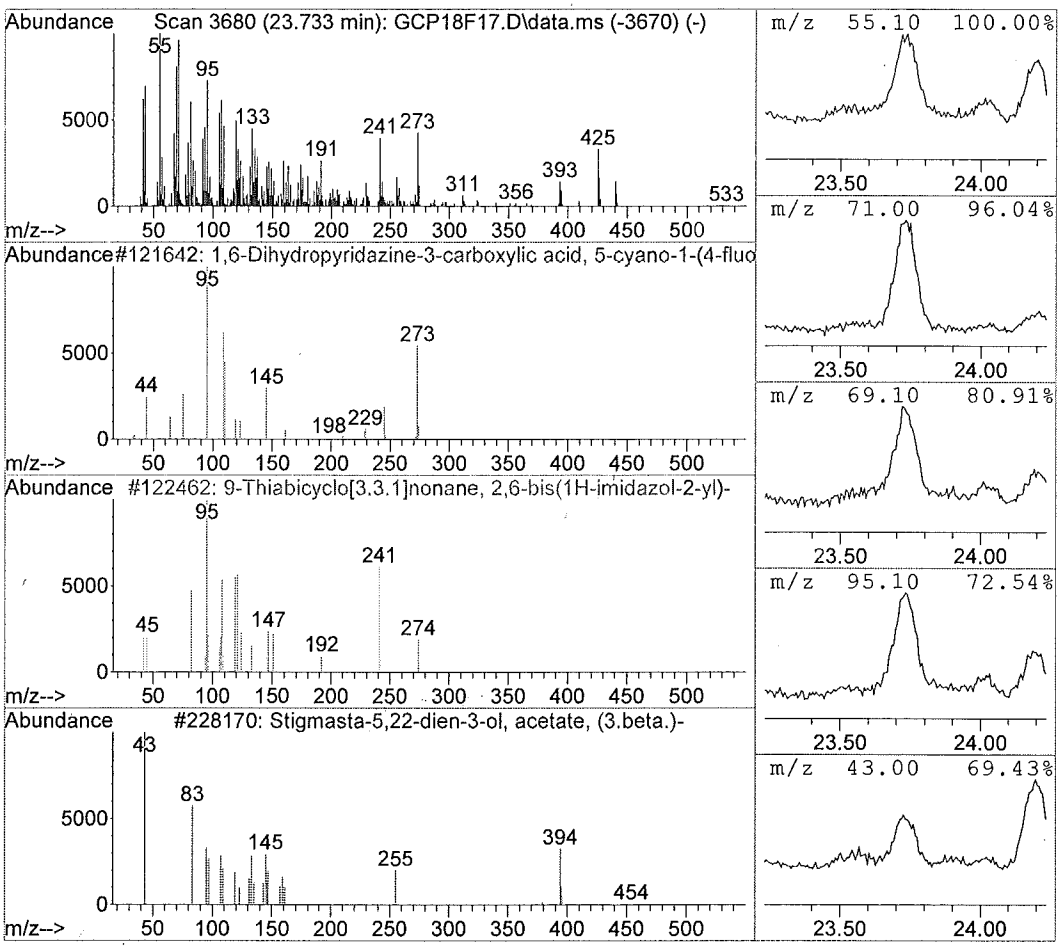
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP18F17.D Vial: 15
Acq On : 07/10/2015 19:47 Operator: TJM
Sample : 1515542017 F9M35 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
23.73	19.53 ug/ml	2057927	Perylene-d12	2107032

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,6-Dihydropyridazine-3-carboxylic	121642	1000304-05-0	38.00
2	9-Thiabicyclo[3.3.1]nonane, 2,6-bis	122462	1000141-52-1	38.00
3	Stigmasta-5,22-dien-3-ol, acetate,	228170	004651-48-3	32.00
4	Olean-12-en-28-al, cyclic 1,2-ethan	235322	054446-81-0	16.00
5	Lanosterol	221175	000079-63-0	15.00



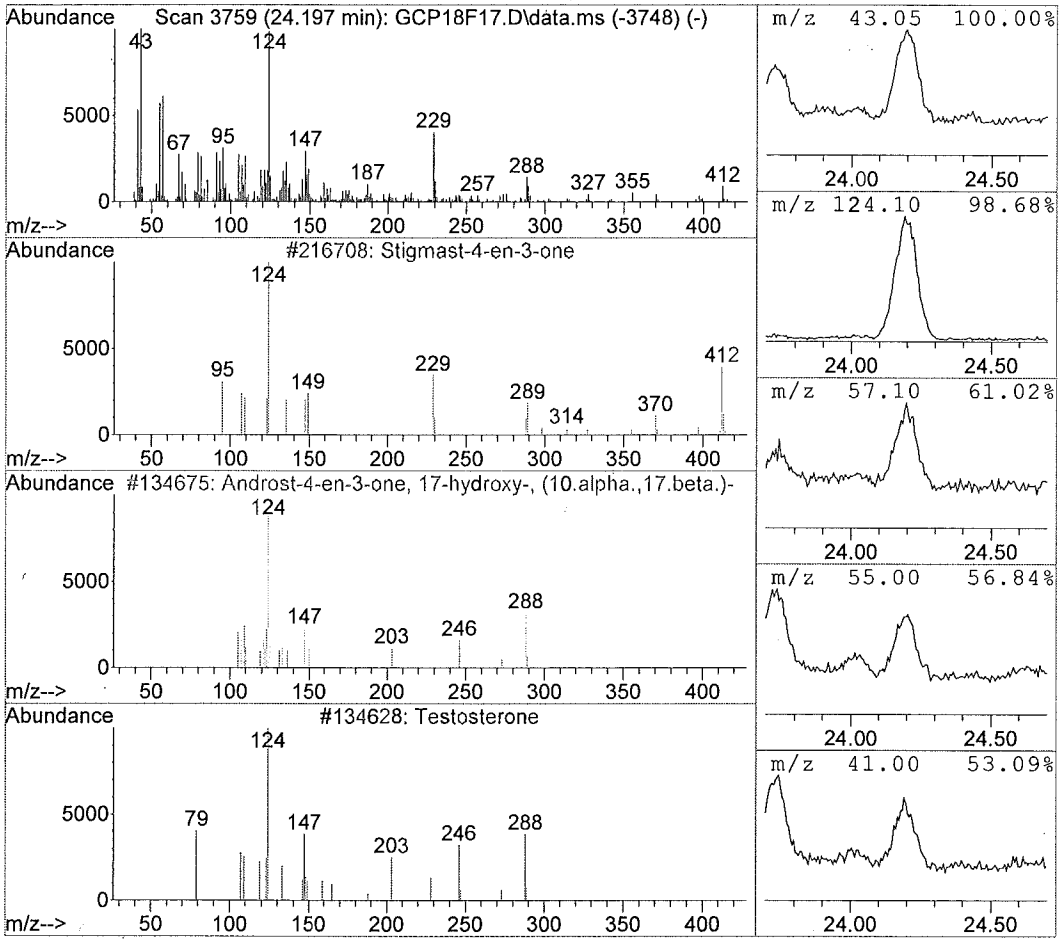
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP18F17.D Vial: 15
Acq On : 07/10/2015 19:47 Operator: TJM
Sample : 1515542017 F9M35 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
24.20	14.89 ug/ml	1568439	Perylene-d12	2107032

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Stigmast-4-en-3-one	216708	001058-61-3	78.00
2	Androst-4-en-3-one, 17-hydroxy-, (1	134675	000604-39-7	60.00
3	Testosterone	134628	000058-22-0	47.00
4	Beta-(O-methoxyphenoxy)cinnamic aci	119122	1000243-81-2	35.00
5	2-Methyl-4,5-pyrimidinediamine	10317	015579-63-2	30.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M37

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GCP19F18

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

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

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	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	74.	J
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.

F9M37

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GCP19F18

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

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

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	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	90.	J
120-12-7	Anthracene	58.	J
86-74-8	Carbazole	24.	J
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	350	
129-00-0	Pyrene	340	
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	210	
218-01-9	Chrysene	240	
117-81-7	Bis(2-ethylhexyl)phthalate	44.	J
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	470	
207-08-9	Benzo(k)fluoranthene	140	J
50-32-8	Benzo(a)pyrene	190	J
193-39-5	Indeno(1,2,3-cd)pyrene	120	J
53-70-3	Dibenzo(a,h)anthracene	29.	J
191-24-2	Benzo(g,h,i)perylene	23.	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.
F9M37

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9M21
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515542018
Sample wt/vol: 30.4 (g/mL) g Lab File ID: GCP19F18
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015
GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 1.0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	814-78-8	3-Buten-2-one, 3-methyl-	2.19	150	JN
02		Unknown 2-Pentanone, 4-hydroxy-	3.30	520	JB
03		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.52	14000	JB
04		Unknown TATP	4.07	280	J
05		Unknown Pentanoic acid, 2,4-dioxo-, methyl ester	4.19	550	J
06		Unknown 1H-Pyrrole-2,5-dione	4.28	910	J
07		Unknown 2,3-Butanedione	4.77	210	J
08		Unknown Isothiazole, 4-methyl-	5.00	210	J
09		Unknown Propanoic acid, 2-methyl-, 1-methylethyl	5.10	1000	J
10		Unknown Thiophene, 3-methyl-	6.95	170	J
11	1000336-31-4	Methyl 13-methyltetradecanoate	11.31	240	JN
12	1120-25-8	9-Hexadecenoic acid, methyl ester, (Z)-	12.25	210	JN
13	1120-25-8	9-Hexadecenoic acid, methyl ester, (Z)-	12.33	210	JN
14	5129-60-2	Pentadecanoic acid, 14-methyl-, methyl ester	12.40	320	JN
15	57-10-3	n-Hexadecanoic acid	12.66	300	JN
16		Unknown Undecanamide, 11-bromo-	12.77	140	J
17		Unknown 1(2H)-Dibenzofuranone, 3,4-dihydro-8-met	13.00	210	J
18	52380-33-3	11-Octadecenoic acid, methyl ester	13.68	120	JN
19	1120-16-7	Dodecanamide	14.16	310	JN
20	301-02-0	9-Octadecenamide, (Z)-	15.08	1700	JNB
21		Unknown Decanamide-	15.18	91.	J
22		Unknown Tetradecanamide	15.87	120	J
23		Unknown Bicyclo[3.1.1]heptan-3-one, 2,6,6-trimet	16.20	210	J
24	79392-43-1	Octadecyl trifluoroacetate	16.60	130	JN
25	638-58-4	Tetradecanamide	16.99	460	JN
26	111-02-4	Squalene	17.16	290	JN
27		Unknown Benzoic acid, 4-methoxy-, 2-(2-furoylhyd	19.33	300	J
28	35599-77-0	Tridecane, 1-iodo-	21.57	1900	JN
29	83-46-5	.beta.-Sitosterol	22.28	1500	JN
30	58-22-0	Testosterone	24.20	840	JN
	E966796[2]	Total Alkanes	N/A	4900	J

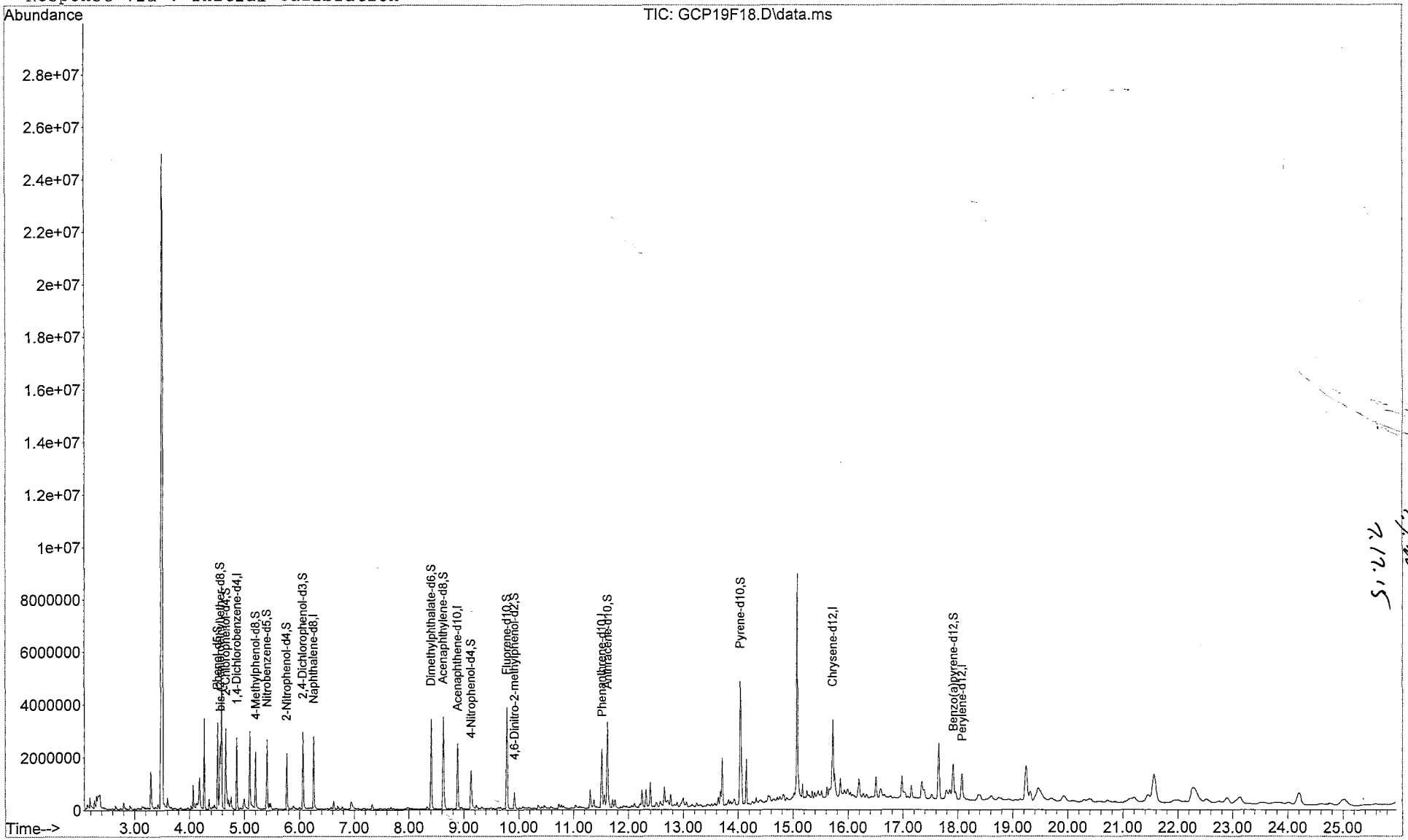
[2] EPA-designated Registry Number.

Quantitation Report

Data File : R:\G\2015\JUL15\10JUL15\GCP19F18.D Vial: 16
Acq On : 07/10/2015 20:20 Operator: TJM
Sample : 1515542018 F9M37 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jul 17 09:37:06 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\10JUL15\GCP19F18.D Vial: 16
Acq On : 07/10/2015 20:20 Operator: TJM
Sample : 1515542018 F9M37 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 17 09:37:06 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	355871	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1322305	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	767186	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1230931	20.00 ug/ml
73) Chrysene-d12	15.73	240	1184609	20.00 ug/ml
81) Perylene-d12	18.08	264	705398	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.52	99	876090	28.290ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	483814	20.047ug/mL
7) 2-Chlorophenol-d4	4.67	132	722534	27.633ug/ml
13) 4-Methylphenol-d8	5.21	113	396552	19.144ug/mL
17) Nitrobenzene-d5	5.42	128	289227	24.899ug/ml
21) 2-Nitrophenol-d4	5.77	143	327313	26.658ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	601739	31.474ug/mL
28) 4-Chloroaniline-d4	6.36	131	904	0.043ug/mL
42) Dimethylphthalate-d6	8.42	166	1694145	35.216ug/mL
45) Acenaphthylene-d8	8.63	160	2092877	32.012ug/mL
50) 4-Nitrophenol-d4	9.14	143	308414	31.425ug/mL
57) Fluorene-d10	9.79	176	1416918	34.489ug/mL
61) 4,6-Dinitro-2-methylphenol	9.93	200	96705	11.069ug/mL
69) Anthracene-d10	11.63	188	1931872	29.595ug/mL
75) Pyrene-d10	14.04	212	2052224	34.714ug/mL
86) Benzo(a)pyrene-d12	17.92	264	929120	27.488ug/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)

20485

Quantitation Report

Data File : R:\G\2015\JUL15\10JUL15\GCP19F18.D Vial: 16
Acq On : 07/10/2015 20:20 Operator: TJM
Sample : 1515542018 F9M37 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 17 09:37:06 2015 Results File: GSOM01D6.RES

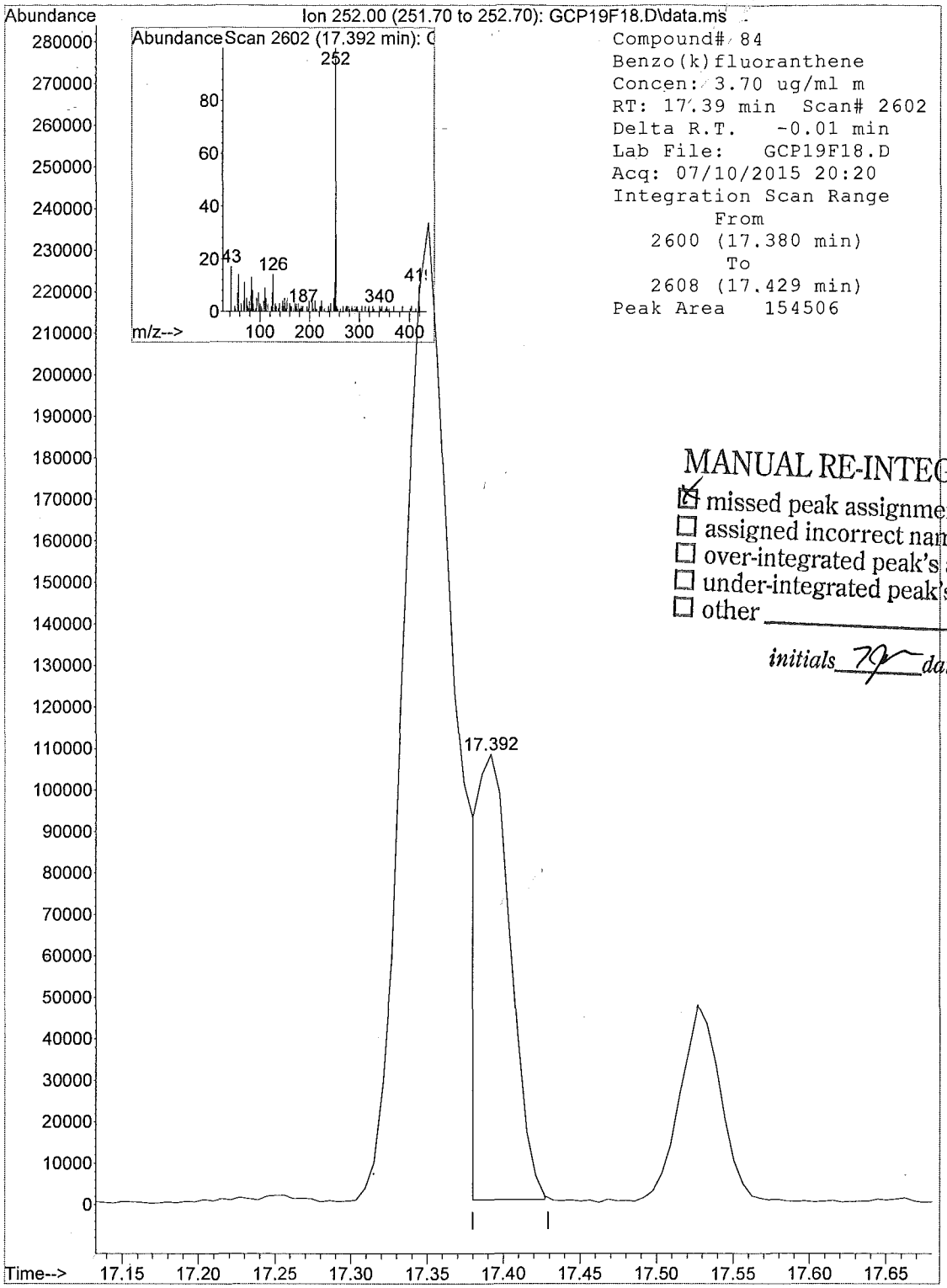
Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44) Acenaphthylene	8.66	152	134305	1.935ug/ml	98
46) 3-Nitroaniline	0.00	138		Not Detected	
47) Acenaphthene	0.00	153		Not Detected	
48) 2,4-Dinitrophenol	0.00	184		Not Detected	
49) 4-Nitrophenol	0.00	109		Not Detected	
51) Dibenzofuran	0.00	168		Not Detected	
52) 2,4-Dinitrotoluene	0.00	165		Not Detected	
53) 2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54) Diethylphthalate	0.00	149		Not Detected	
55) 4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56) Fluorene	0.00	166		Not Detected	
58) 4-Nitroaniline	0.00	138		Not Detected	
60) 4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62) N-Nitrosodiphenylamine	0.00	169		Not Detected	
63) 4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64) Hexachlorobenzene	0.00	284		Not Detected	
65) Atrazine	0.00	200		Not Detected	
66) Pentachlorophenol	0.00	266		Not Detected	
67) Phenanthrene	11.56	178	153798	2.343ug/ml	100
68) Anthracene	11.66	178	101395	1.513ug/ml	95
70) Carbazole	11.97	167	29082	0.634ug/mL	93
71) Di-n-butylphthalate	0.00	149		Not Detected	
72) Fluoranthene	13.72	202	655745	9.064ug/ml	96
74) Pyrene	14.07	202	662081	8.780ug/ml	94
76) Butylbenzylphthalate	0.00	149		Not Detected	
77) 3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78) Benzo(a)anthracene	15.72	228	397442	5.530ug/ml	84
79) Chrysene	15.76	228	396971	6.117ug/ml	95
80) Bis-(2-ethylhexyl)phthalat	15.78	149	66816	1.141ug/ml	94
82) Di-n-octylphthalate	0.00	149		Not Detected	
83) Benzo(b)fluoranthene	17.35	252	542267	12.273ug/ml	98
84) Benzo(k)fluoranthene	17.39	252	154506	3.702ug/ml m	98
85) Benzo(a)pyrene	17.97	252	209295	5.034ug/ml	93
87) Indeno(1,2,3-c,d)pyrene	20.73	276	115773	3.149ug/ml	90
88) Dibenzo(a,h)anthracene	20.79	278	28094	0.764ug/ml m	88
89) Benzo(g,h,i)perylene	21.53	276	21803	0.602ug/ml m	50

7.17.15

(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

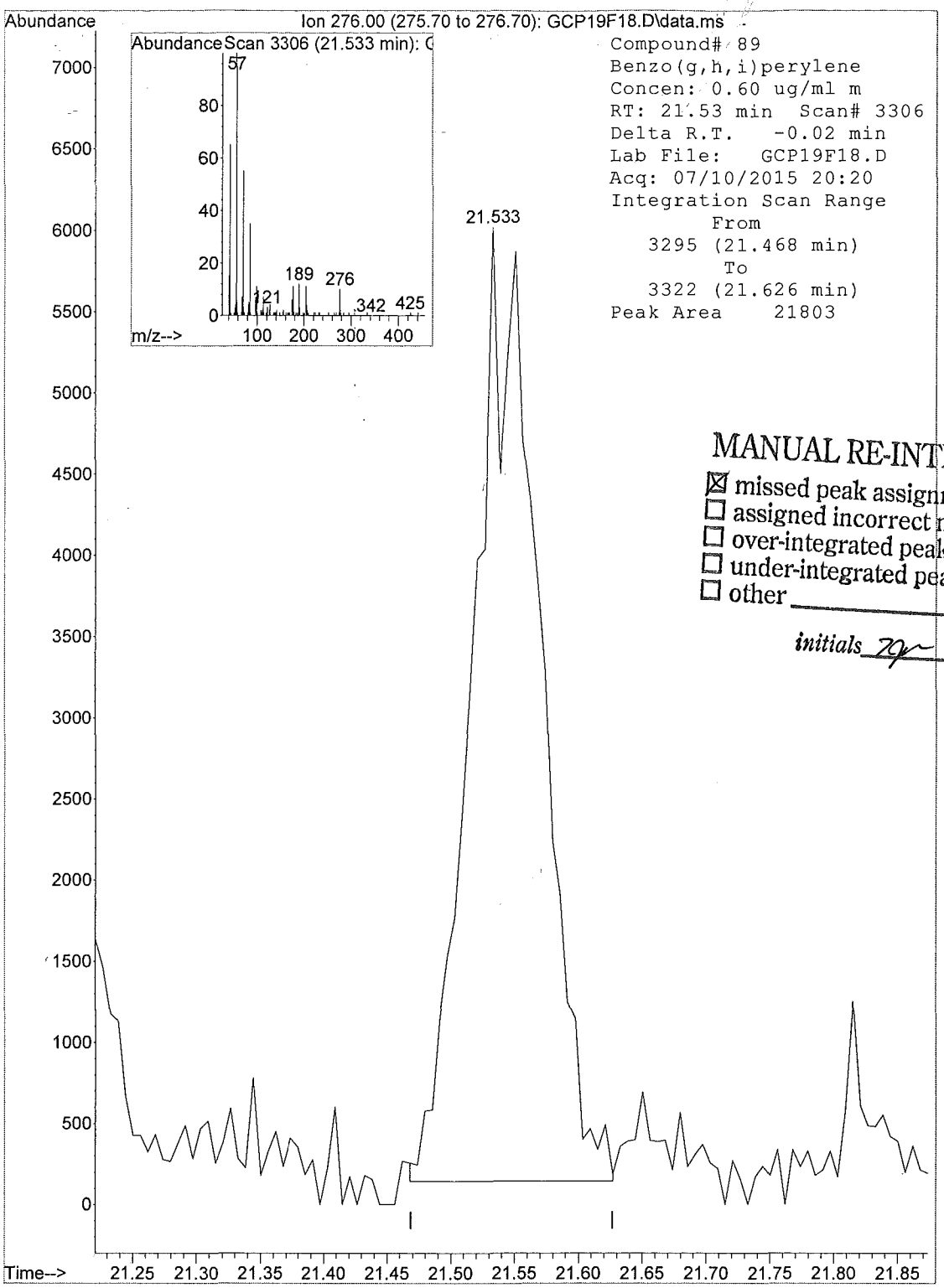


MANUAL RE-INTEGRATION

- ☑ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials JP *date* 7.17.15

M A N U A L I N T E G R A T I O N FOR Benzo(g,h,i)perylene

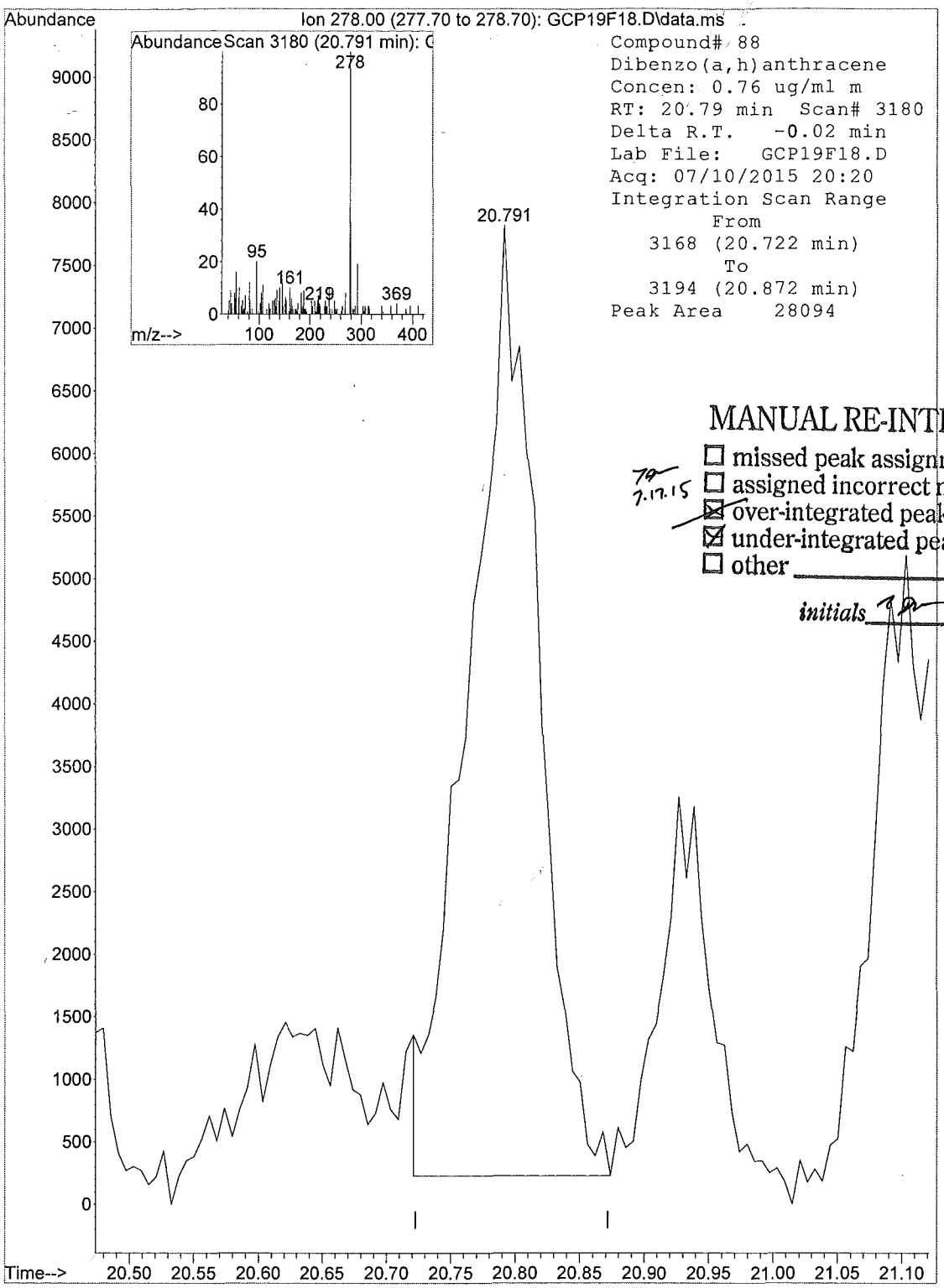


MANUAL RE-INTEGRATION

- ☒ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials ZQ *date* 7.17.15

M A N U A L I N T E G R A T I O N FOR Dibenzo(a,h)anthracene



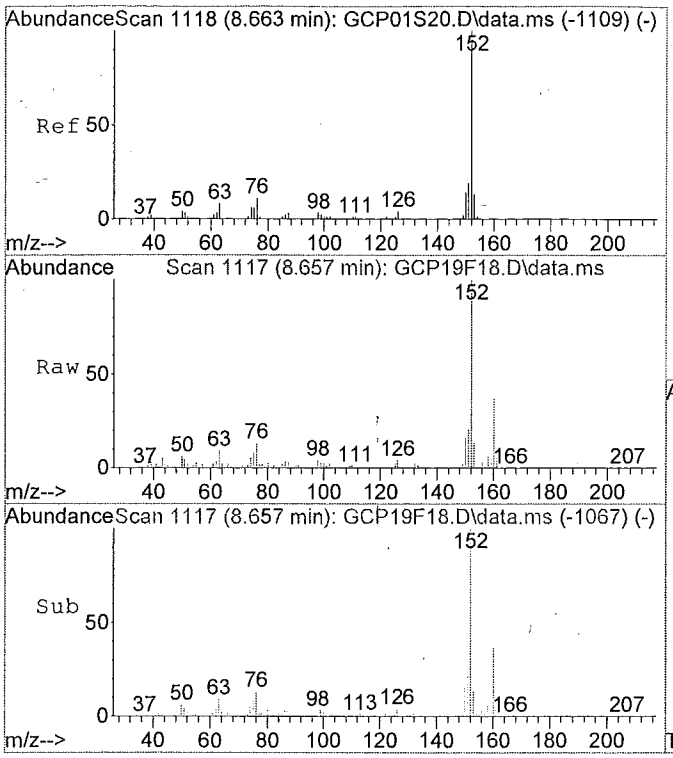
MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☒ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

7.17.15

initials _____ *date* 7.17.15

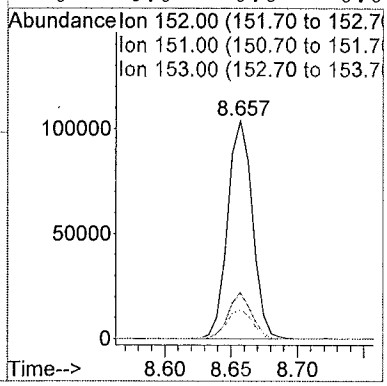
GSOM01D6.M 5975-G GSOM01D6.M 1515542018 F9M37 . SOIL SOM

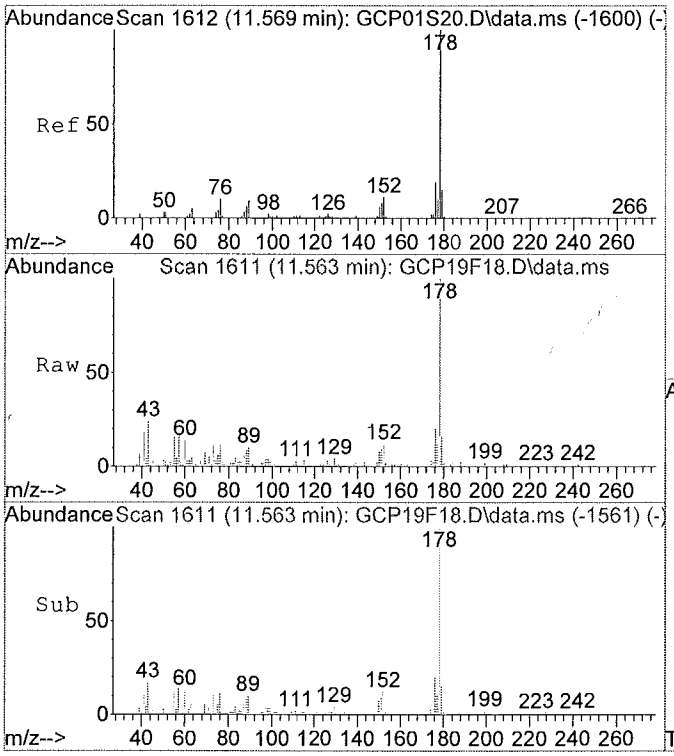


#44
Acenaphthylene
Concen: 1.93 ug/ml
RT: 8.66 min Scan# 1117
Delta R.T. -0.01 min
Lab File: GCP19F18.D
Acq: 07/10/2015 20:20

Tgt Ion:152 Resp: 134305

Ion	Ratio	Lower	Upper
152	100		
151	19.8	13.4	25.0
153	14.2	9.1	16.9
0	0.0	0.0	0.0

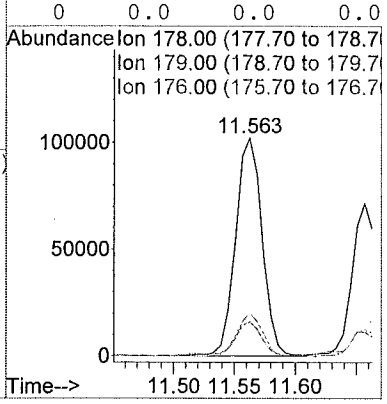


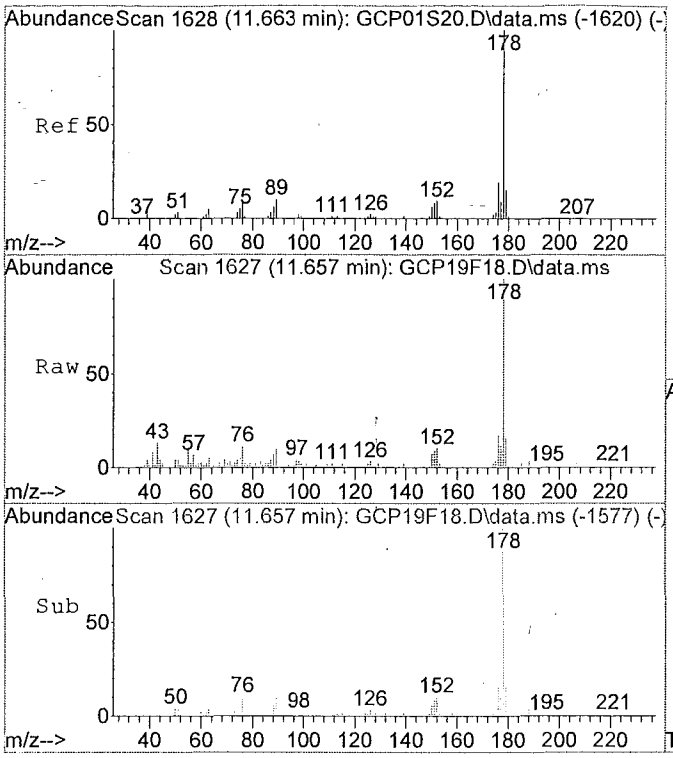


#67
Phenanthrene
Concen: 2.34 ug/ml
RT: 11.56 min Scan# 1611
Delta R.T. -0.01 min
Lab File: GCP19F18.D
Acq: 07/10/2015 20:20

Tgt Ion:178 Resp: 153798

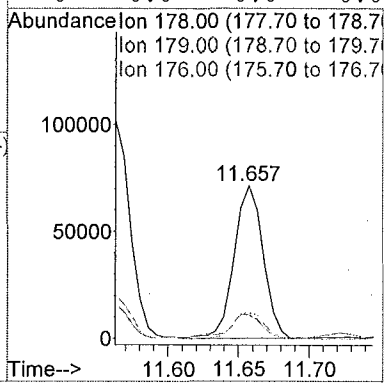
Ion	Ratio	Lower	Upper
178	100		
179	15.3	10.6	19.8
176	19.0	13.2	24.4
0	0.0	0.0	0.0

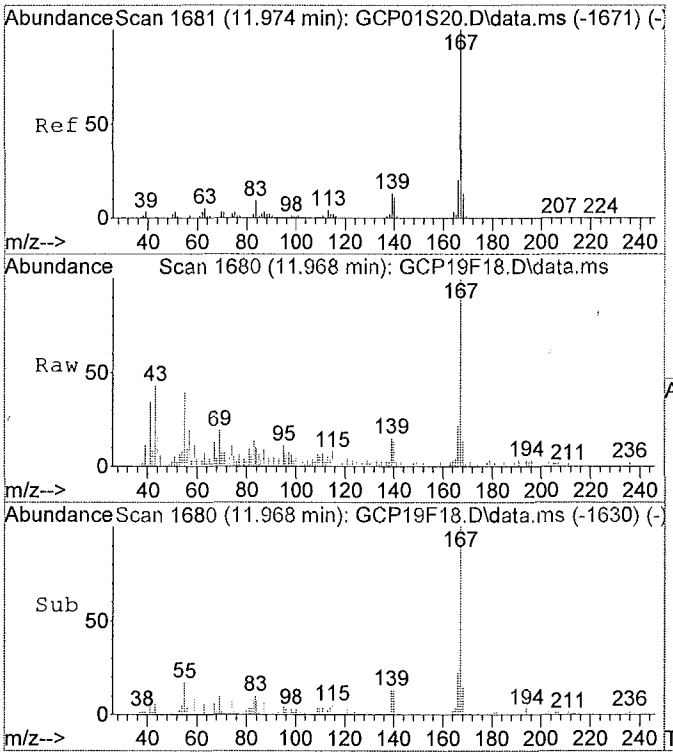




#68
Anthracene
Concen: 1.51 ug/ml
RT: 11.66 min Scan# 1627
Delta R.T. -0.01 min
Lab File: GCP19F18.D
Acq: 07/10/2015 20:20

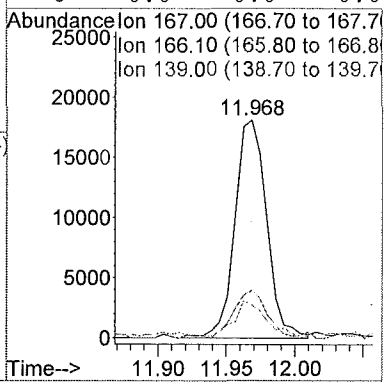
Tgt Ion:178	Resp:	101395	
Ion	Ratio	Lower	Upper
178	100		
179	18.5	10.5	19.5
176	18.7	12.7	23.5
0	0.0	0.0	0.0

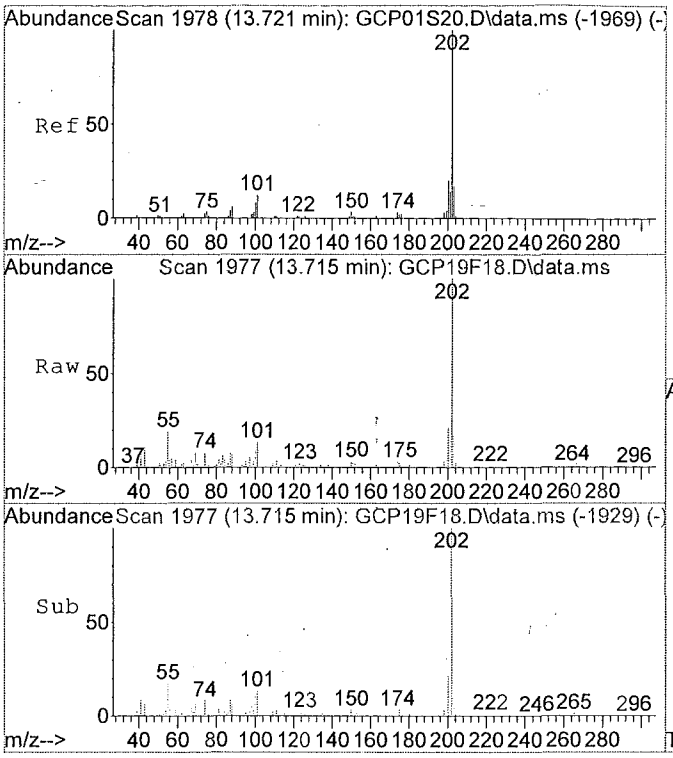




#70
Carbazole
Concen: 0.63 ug/mL
RT: 11.97 min Scan# 1680
Delta R.T. -0.01 min
Lab File: GCP19F18.D
Acq: 07/10/2015 20:20

Tgt Ion:167	Resp:	29082	
Ion	Ratio	Lower	Upper
167	100		
166	22.6	15.8	23.8
139	17.5	11.1	16.7#
0	0.0	0.0	0.0

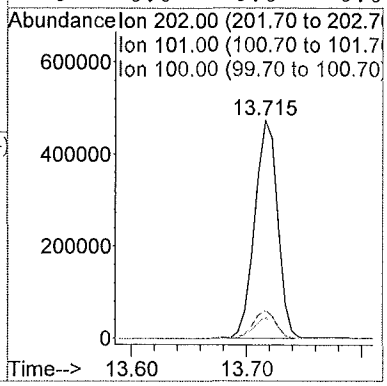


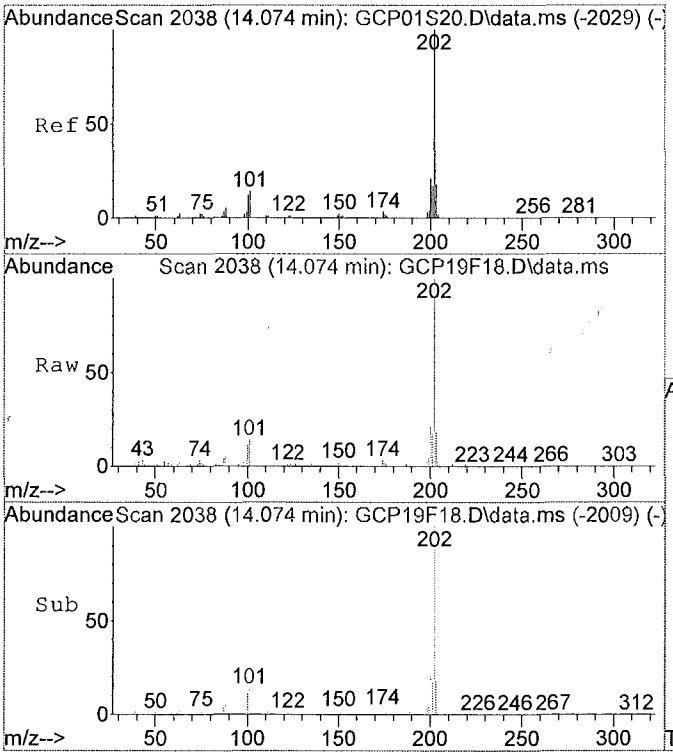


#72
Fluoranthene
Concen: 9.06 ug/ml
RT: 13.72 min Scan# 1977
Delta R.T. -0.01 min
Lab File: GCP19F18.D
Acq: 07/10/2015 20:20

Tgt Ion:202 Resp: 655745

Ion	Ratio	Lower	Upper
202	100		
101	12.7	10.5	19.5
100	9.4	7.4	13.8
0	0.0	0.0	0.0

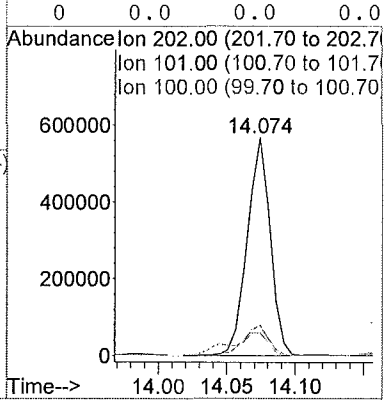


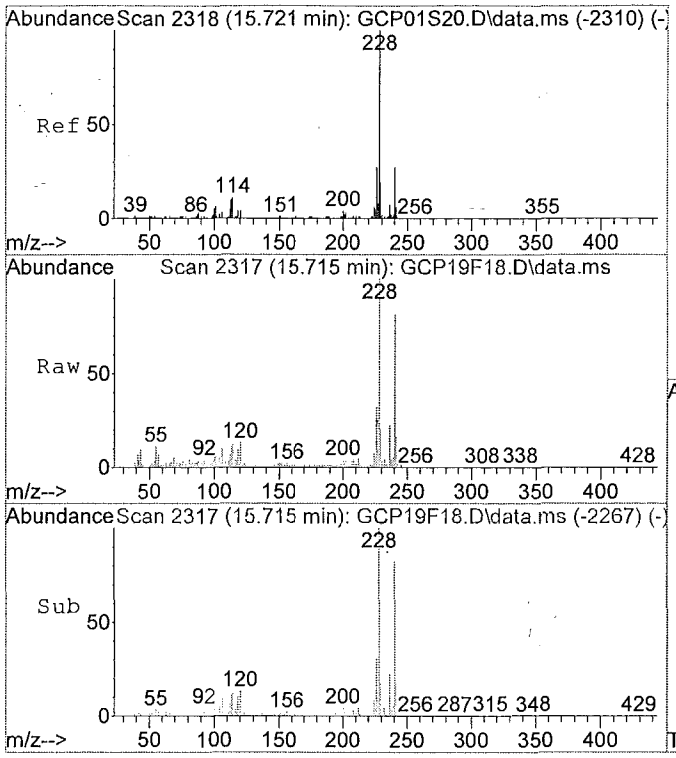


#74
Pyrene
Concen: 8.78 ug/ml
RT: 14.07 min Scan# 2038
Delta R.T. -0.00 min
Lab File: GCP19F18.D
Acq: 07/10/2015 20:20

Tgt Ion:202 Resp: 662081

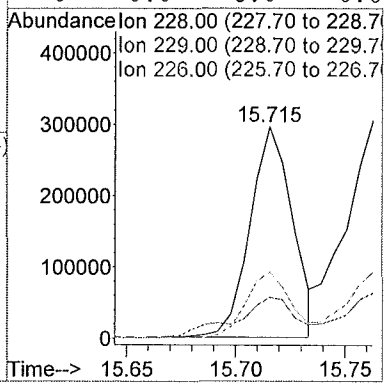
Ion	Ratio	Lower	Upper
202	100		
101	15.7	12.2	22.7
100	17.7	10.1	18.7
0	0.0	0.0	0.0

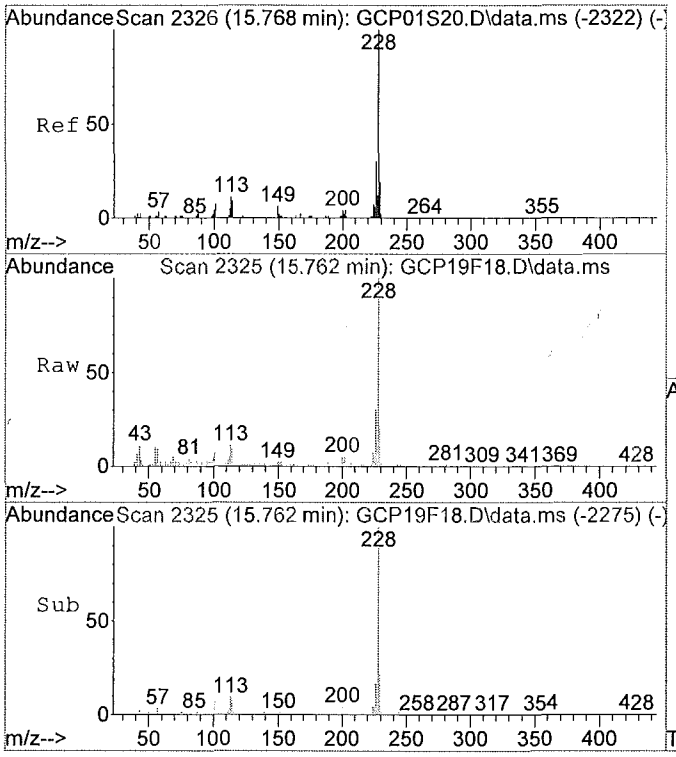




#78
Benzo(a)anthracene
Concen: 5.53 ug/ml
RT: 15.72 min Scan# 2317
Delta R.T. -0.01 min
Lab File: GCP19F18.D
Acq: 07/10/2015 20:20

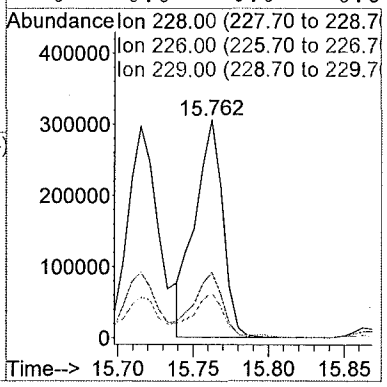
Tgt Ion:228	Resp:	397442	
Ion	Ratio	Lower	Upper
228	100		
229	27.8	13.7	25.5#
226	33.1	18.2	33.8
0	0.0	0.0	0.0

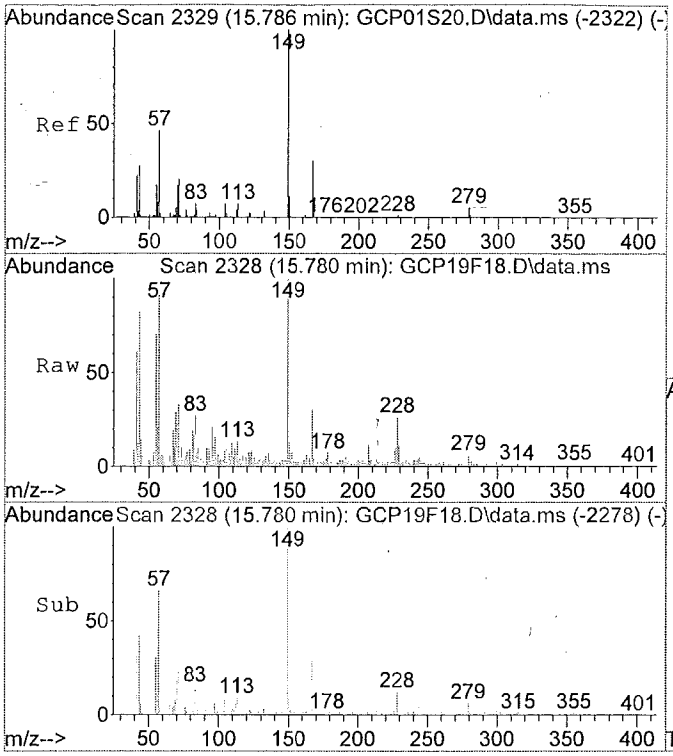




#79
Chrysene
Concen: 6.12 ug/ml
RT: 15.76 min Scan# 2325
Delta R.T. -0.01 min
Lab File: GCP19F18.D
Acq: 07/10/2015 20:20

Tgt Ion:228	Resp:	396971	
Ion	Ratio	Lower	Upper
228	100		
226	30.9	20.1	37.3
229	22.8	13.7	25.5
0	0.0	0.0	0.0

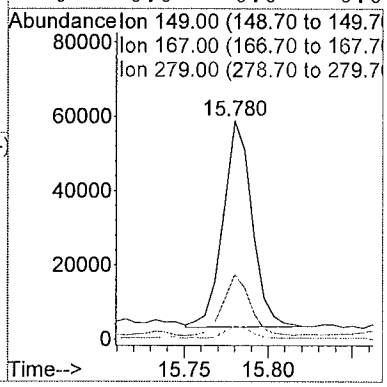


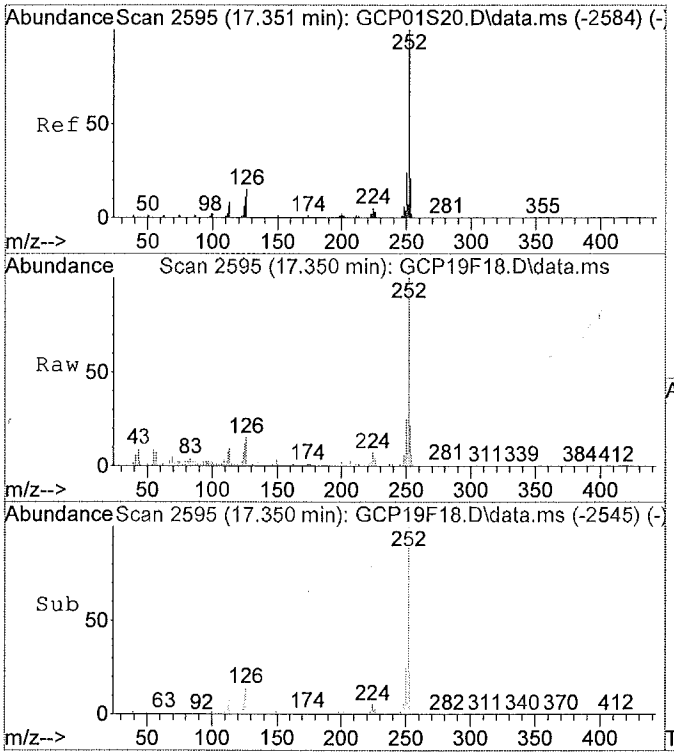


#80
Bis-(2-ethylhexyl)phthalate
Concen: 1.14 ug/ml
RT: 15.78 min Scan# 2328
Delta R.T. -0.01 min
Lab File: GCP19F18.D
Acq: 07/10/2015 20:20

Tgt Ion:149 Resp: 66816

Ion	Ratio	Lower	Upper
149	100		
167	28.0	22.0	40.8
279	5.2	5.0	9.2
0	0.0	0.0	0.0

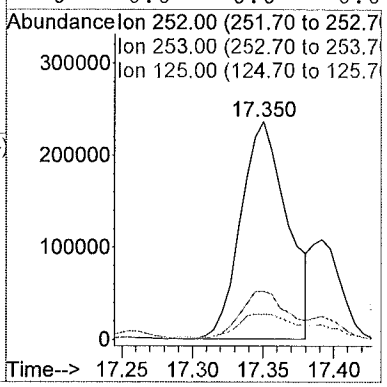


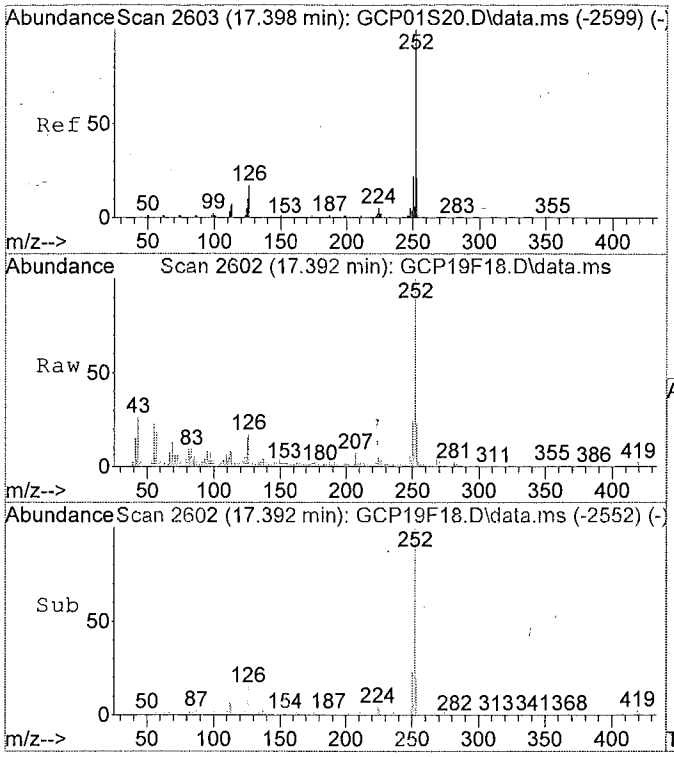


#83
Benzo(b)fluoranthene
Concen: 12.27 ug/ml
RT: 17.35 min Scan# 2595
Delta R.T. -0.00 min
Lab File: GCP19F18.D
Acq: 07/10/2015 20:20

Tgt Ion:252 Resp: 542267

Ion	Ratio	Lower	Upper
252	100		
253	22.4	15.1	28.1
125	16.5	10.6	19.8
0	0.0	0.0	0.0

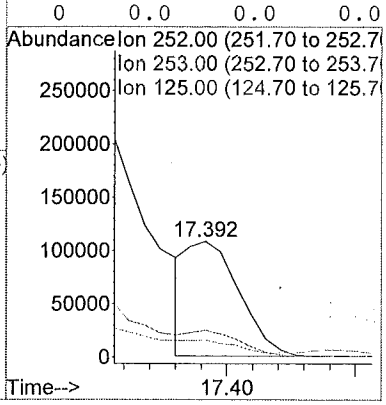


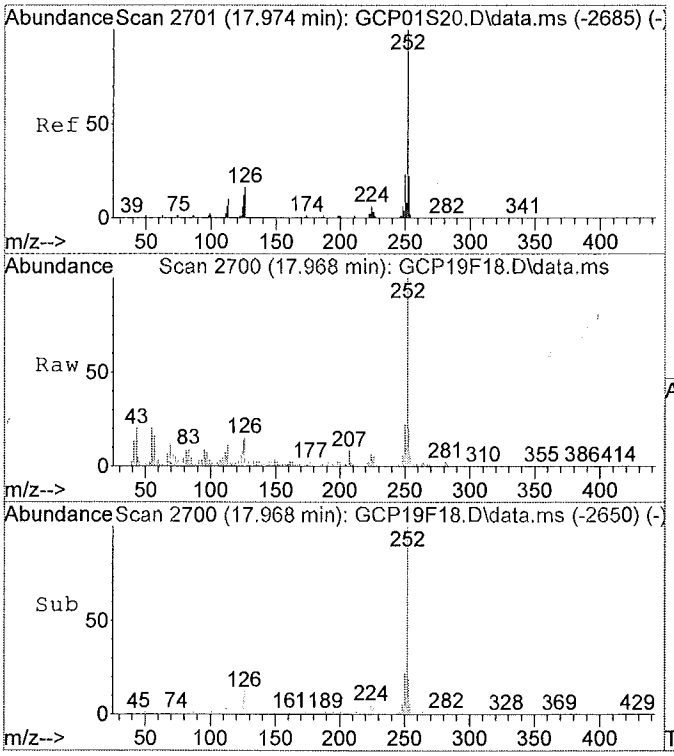


#84
Benzo(k)fluoranthene
Concen: 3.70 ug/ml m
RT: 17.39 min Scan# 2602
Delta R.T. -0.01 min
Lab File: GCP19F18.D
Acq: 07/10/2015 20:20

Tgt Ion:252 Resp: 154506

Ion	Ratio	Lower	Upper
252	100		
253	78.5	15.1	28.1#
125	56.7	10.7	19.9#
0	0.0	0.0	0.0

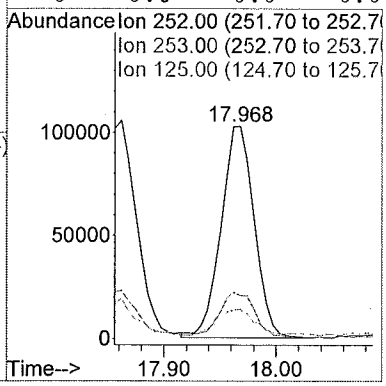


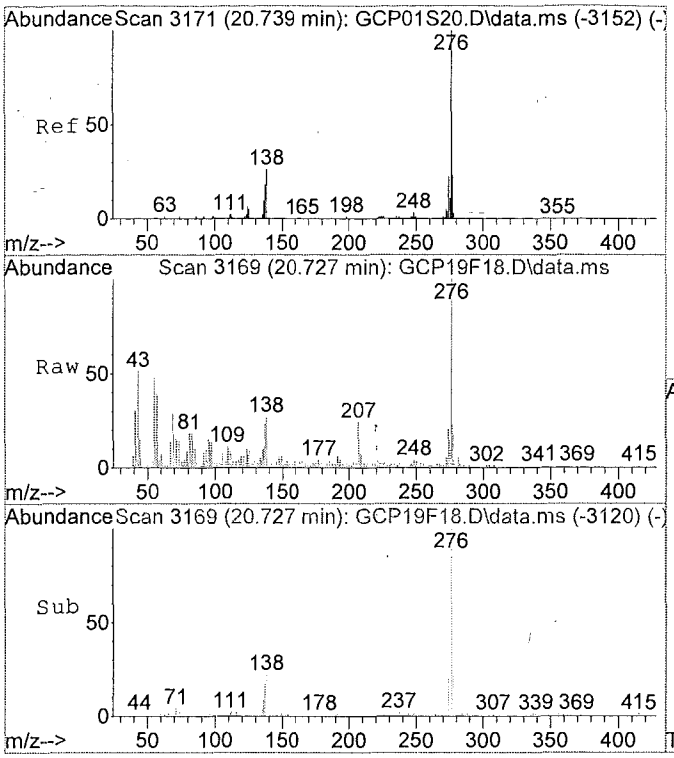


#85
Benzo(a)pyrene
Concen: 5.03 ug/ml
RT: 17.97 min Scan# 2700
Delta R.T. -0.01 min
Lab File: GCP19F18.D
Acq: 07/10/2015 20:20

Tgt Ion:252 Resp: 209295

Ion	Ratio	Lower	Upper
252	100		
253	23.5	15.2	28.2
125	12.3	11.8	21.8
0	0.0	0.0	0.0

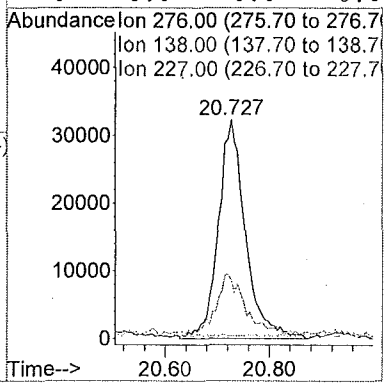


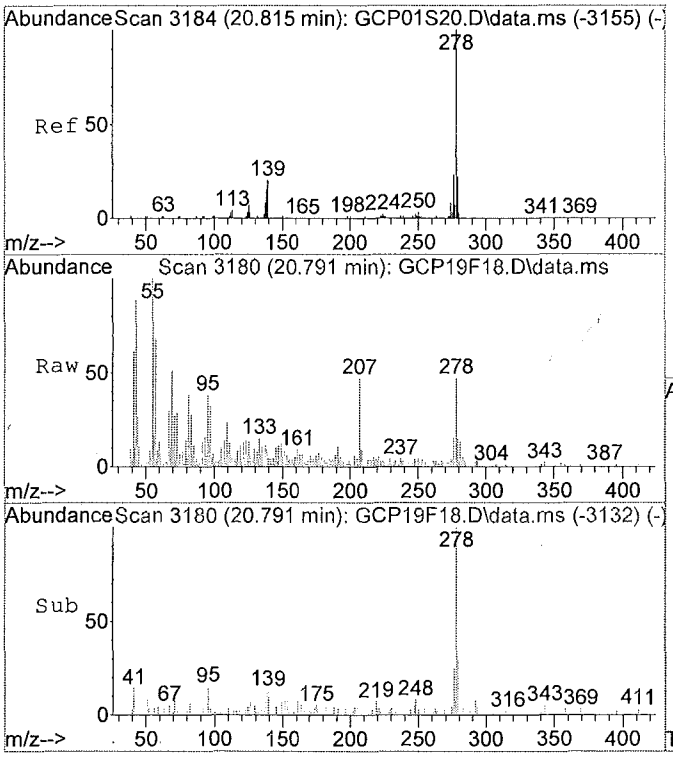


#87
Indeno(1,2,3-c,d)pyrene
Concen: 3.15 ug/ml
RT: 20.73 min Scan# 3169
Delta R.T. -0.01 min
Lab File: GCP19F18.D
Acq: 07/10/2015 20:20

Tgt Ion:276 Resp: 115773

Ion	Ratio	Lower	Upper
276	100		
138	26.4	22.3	41.5
227	0.1	0.1	0.1#
0	0.0	0.0	0.0

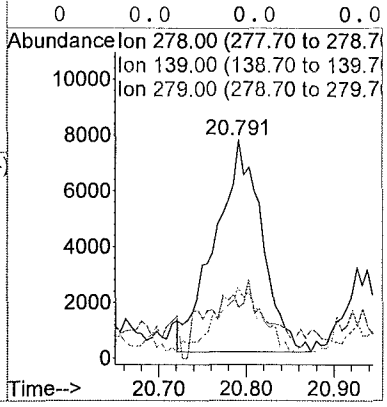


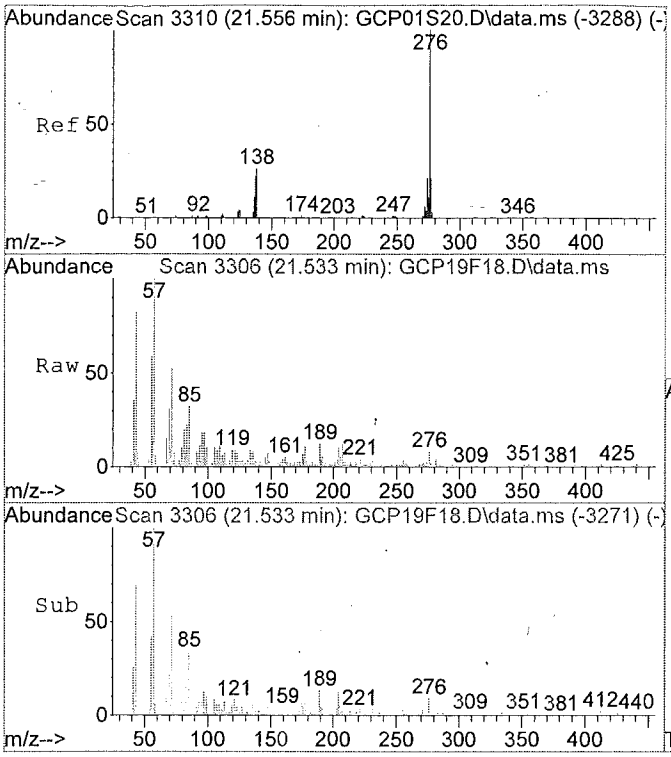


#88
Dibenzo(a,h)anthracene
Concen: 0.76 ug/ml m
RT: 20.79 min Scan# 3180
Delta R.T. -0.02 min
Lab File: GCP19F18.D
Acq: 07/10/2015 20:20

Tgt Ion:278 Resp: 28094

Ion	Ratio	Lower	Upper
278	100		
139	6.7	17.3	32.1#
279	6.2	16.3	30.3#
0	0.0	0.0	0.0

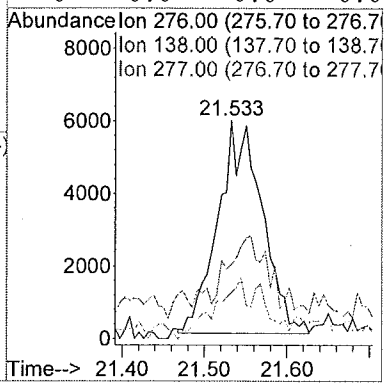




#89
Benzo(g,h,i)perylene
Concen: 0.60 ug/ml m
RT: 21.53 min Scan# 3306
Delta R.T. -0.02 min
Lab File: GCP19F18.D
Acq: 07/10/2015 20:20

Tgt Ion:276 Resp: 21803

Ion	Ratio	Lower	Upper
276	100		
138	0.0	24.1	44.7#
277	20.2	16.7	30.9
0	0.0	0.0	0.0



Library Search Compound Report

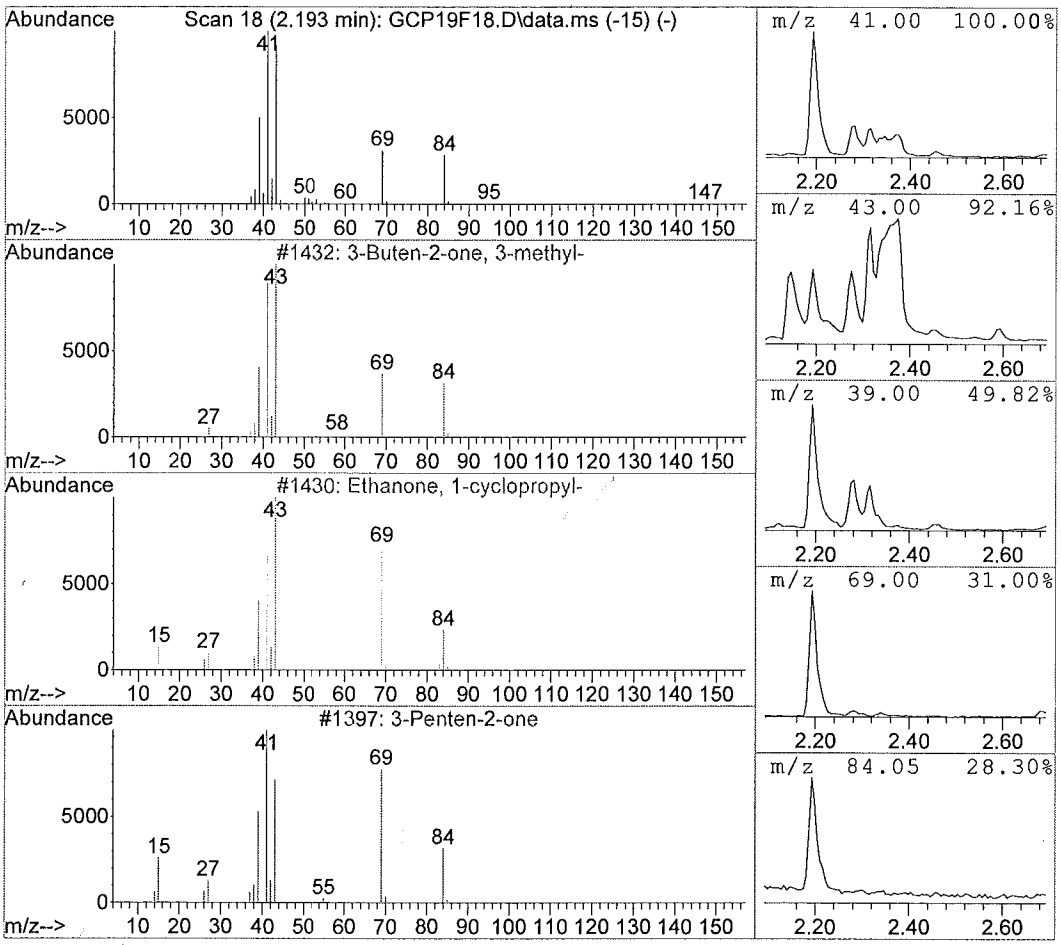
Data File : R:\G\2015\JUL15\10JUL15\GCP19F18.D
Acq On : 07/10/2015 20:20
Sample : 1515542018 F9M37
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 16
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
2.19	3.95 ug/ml	528957	1,4-Dichlorobenzene-d4	2678981

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Buten-2-one, 3-methyl-	1432	000814-78-8	90.00
2	Ethanone, 1-cyclopropyl-	1430	000765-43-5	64.00
3	3-Penten-2-one	1397	000625-33-2	45.00
4	Furan, 2,3-dihydro-5-methyl-	1446	001487-15-6	17.00
5	2,2,6-Trimethyl-4H-1,3-dioxin-4-one	19499	005394-63-8	17.00



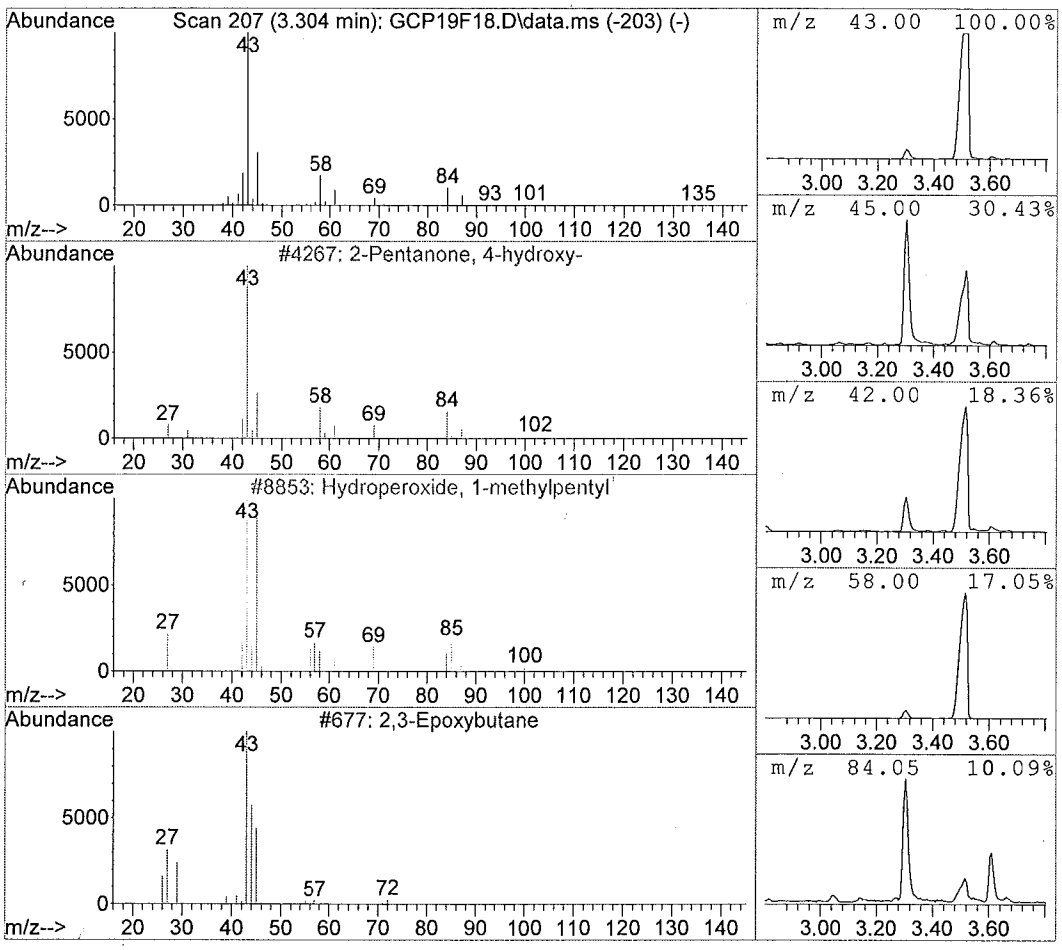
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP19F18.D Vial: 16
Acq On : 07/10/2015 20:20 Operator: TJM
Sample : 1515542018 F9M37 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	13.41 ug/ml	1796301	1,4-Dichlorobenzene-d4	2678981

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	40.00
2	Hydroperoxide, 1-methylpentyl	8853	024254-55-5	33.00
3	2,3-Epoxybutane	677	003266-23-7	17.00
4	Acetone	214	000067-64-1	9.00
5	Butane	234	000106-97-8	7.00



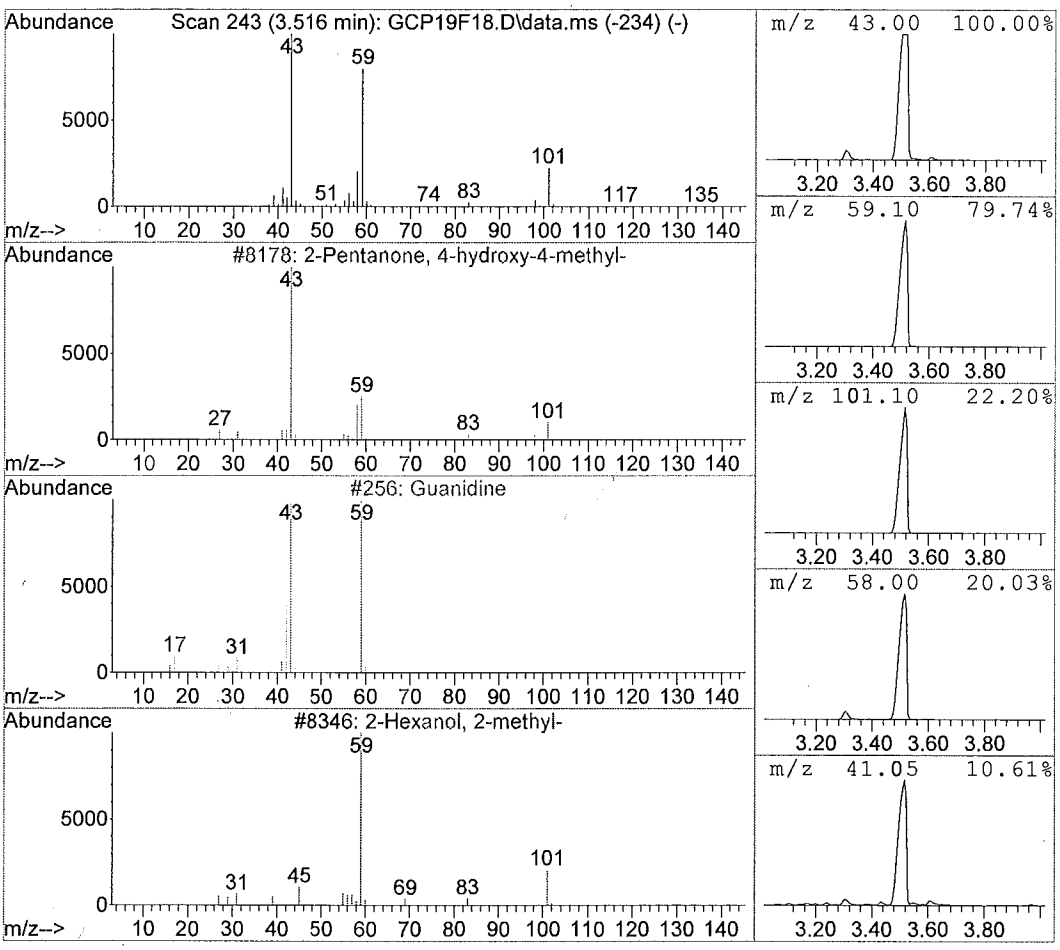
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP19F18.D Vial: 16
Acq On : 07/10/2015 20:20 Operator: TJM
Sample : 1515542018 F9M37 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
3.52	351.22 ug/ml	47045660	1,4-Dichlorobenzene-d4	2678981

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	2-Hexanol, 2-methyl-	8346	000625-23-0	36.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
5	Acetone	213	000067-64-1	9.00



Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP19F18.D
Acq On : 07/10/2015 20:20
Sample : 1515542018 F9M37
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 16
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
3.61	3.75 ug/ml	502645	1,4-Dichlorobenzene-d4	2678981

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octane, 4-methyl-	12674	002216-34-4	74.00
2	Heptane, 2,3-dimethyl-	12683	003074-71-3	58.00
3	1-Octene, 4-methyl-	11522	013151-12-7	50.00
4	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	50.00
5	Hexane, 1-propoxy-	21110	053685-78-2	47.00

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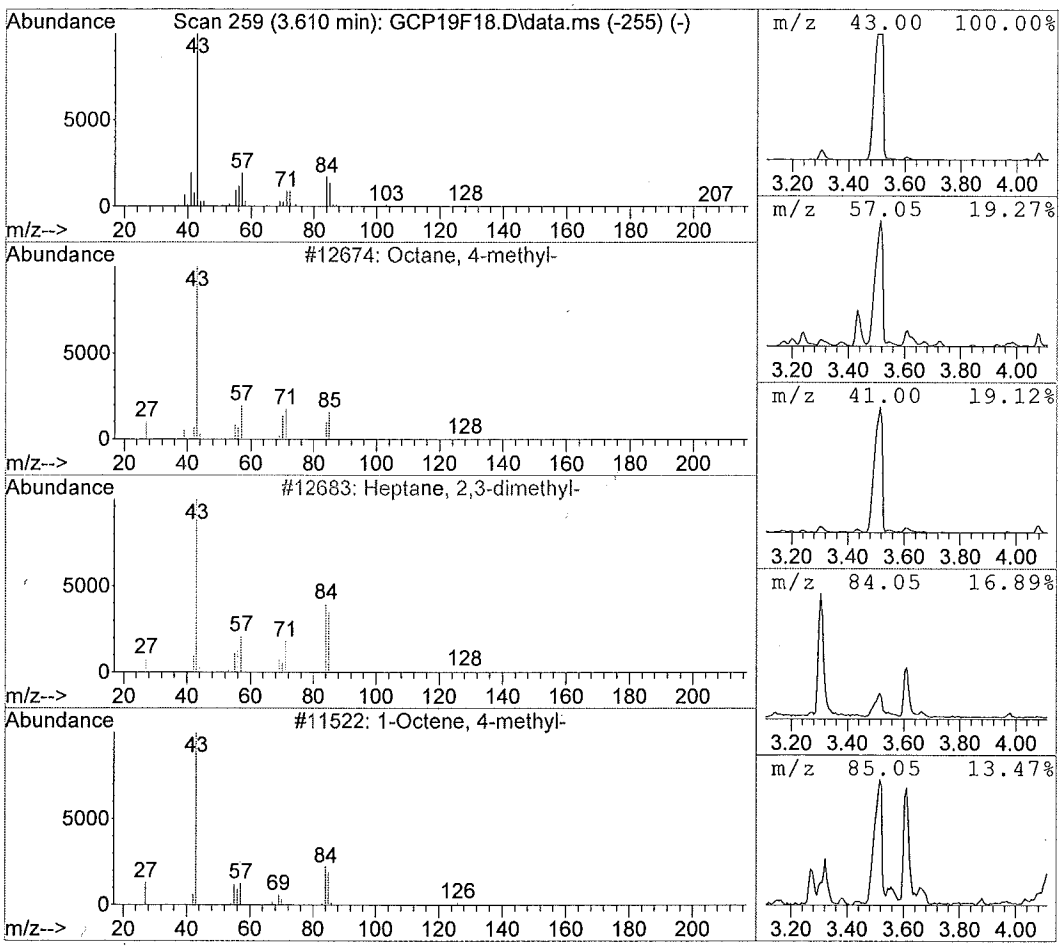

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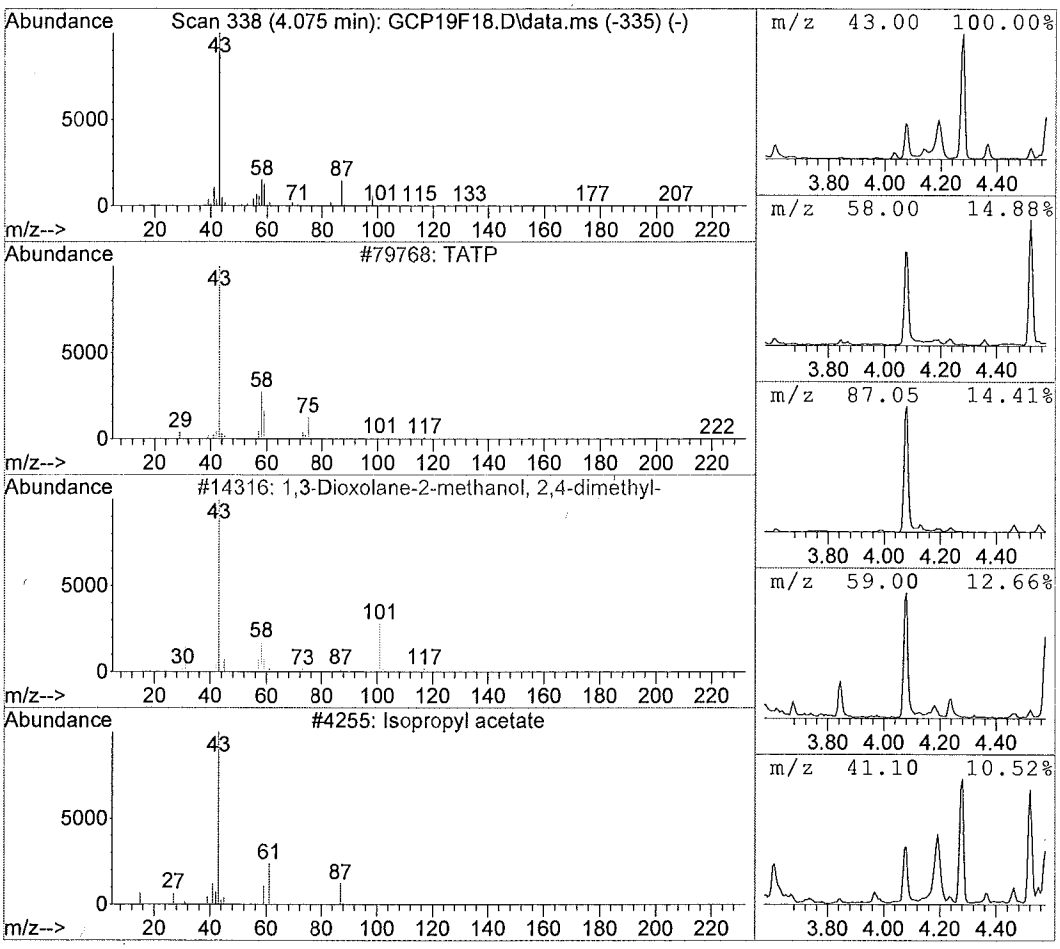
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP19F18.D Vial: 16
Acq On : 07/10/2015 20:20 Operator: TJM
Sample : 1515542018 F9M37 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	7.37 ug/ml	987434	1,4-Dichlorobenzene-d4	2678981

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	TATP	79768	017088-37-8	40.00
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	1,1-Ethanediol, diacetate	21816	000542-10-9	17.00
5	1-Pentanamine	1907	000110-58-7	9.00



Library Search Compound Report

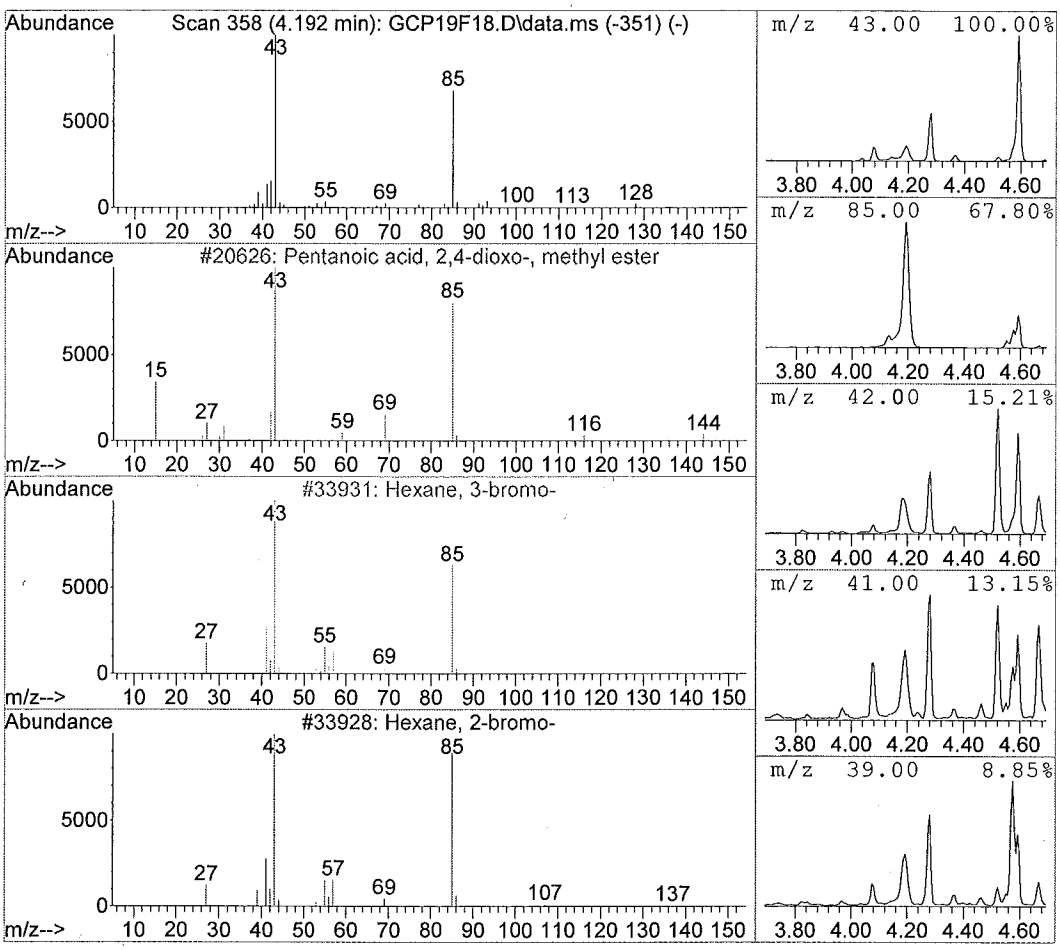
Data File : R:\G\2015\JUL15\10JUL15\GCP19F18.D
Acq On : 07/10/2015 20:20
Sample : 1515542018 F9M37
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 16
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
4.19	14.37 ug/ml	1924817	1,4-Dichlorobenzene-d4	2678981

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentanoic acid, 2,4-dioxo-, methyl	20626	020577-61-1	39.00
2	Hexane, 3-bromo-	33931	003377-87-5	38.00
3	Hexane, 2-bromo-	33928	003377-86-4	38.00
4	Sulfurous acid, isohexyl 2-propyl e	68285	1000309-11-6	38.00
5	5-Iodopentan-2-one	71474	003695-29-2	28.00



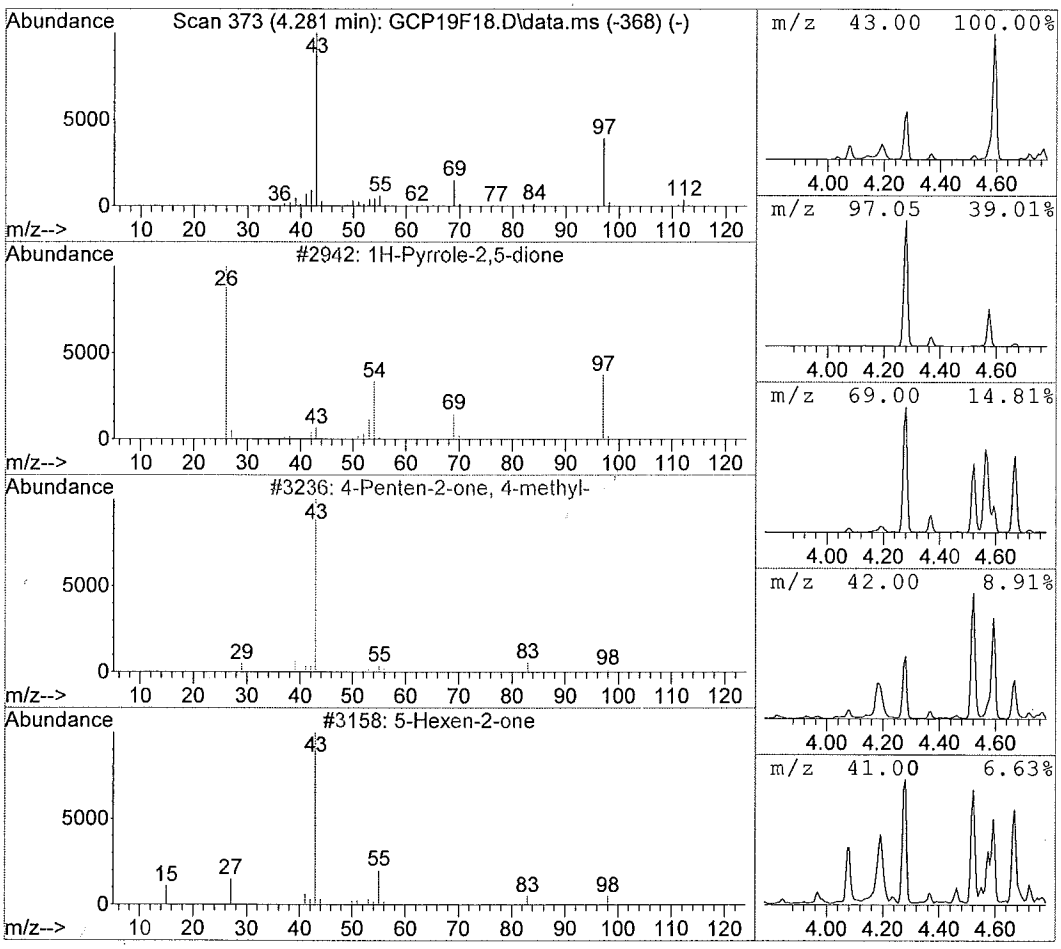
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP19F18.D Vial: 16
Acq On : 07/10/2015 20:20 Operator: TJM
Sample : 1515542018 F9M37 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	23.75 ug/ml	3181280	1,4-Dichlorobenzene-d4	2678981

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	5-Hexen-2-one, 5-methyl-	6517	003240-09-3	5.00



Library Search Compound Report

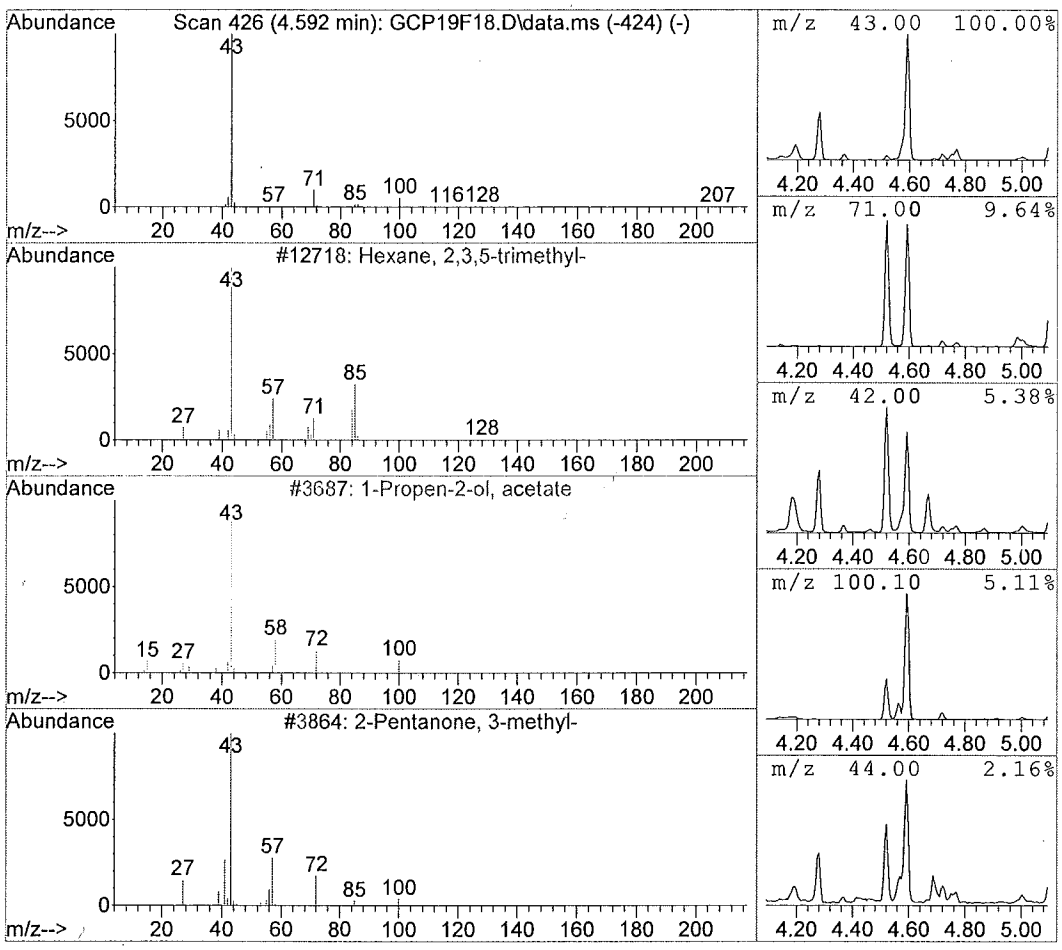
Data File : R:\G\2015\JUL15\10JUL15\GCP19F18.D Vial: 16
Acq On : 07/10/2015 20:20 Operator: TJM
Sample : 1515542018 F9M37 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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	36.81 ug/ml	4930569	1,4-Dichlorobenzene-d4	2678981

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	7.00
2	1-Propen-2-ol, acetate	3687	000108-22-5	5.00
3	2-Pentanone, 3-methyl-	3864	000565-61-7	5.00
4	Heptane	3971	000142-82-5	5.00
5	Hexane, 2,3,4-trimethyl-	12706	000921-47-1	5.00

BA



Library Search Compound Report

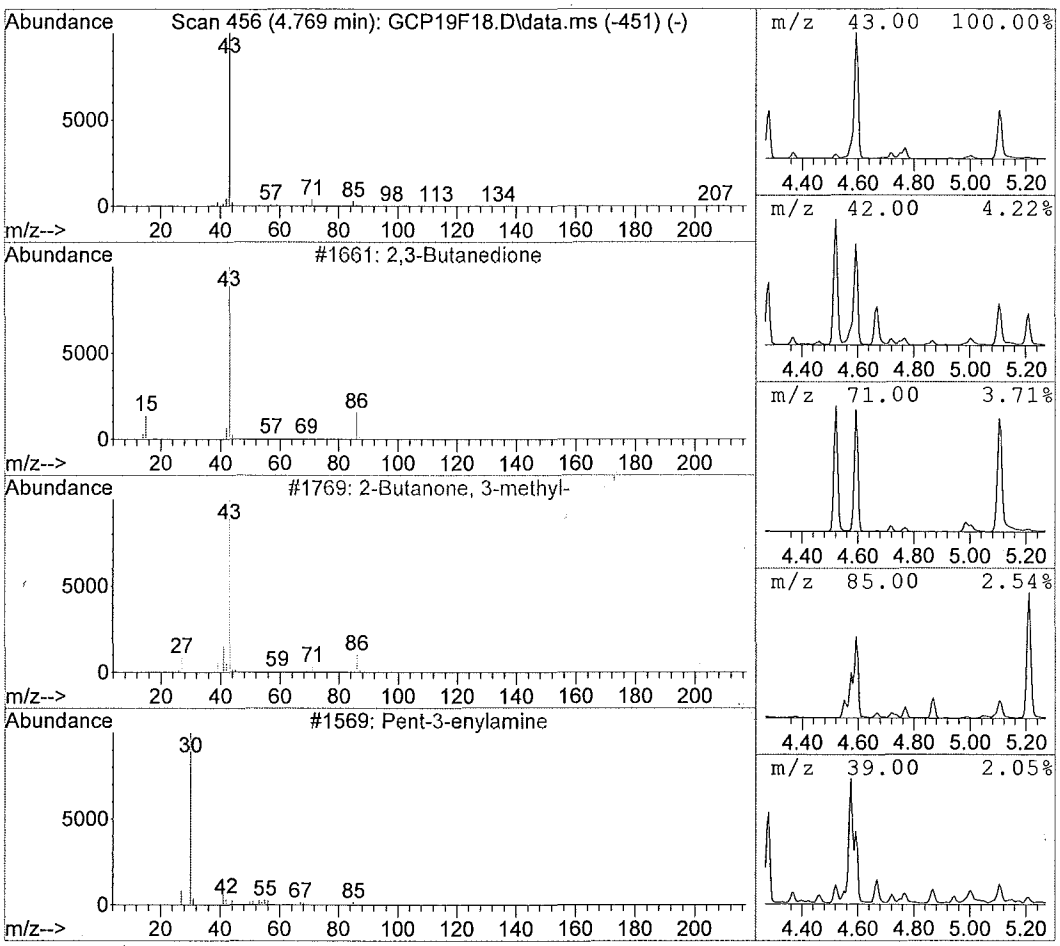
Data File : R:\G\2015\JUL15\10JUL15\GCP19F18.D
Acq On : 07/10/2015 20:20
Sample : 1515542018 F9M37
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 16
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	5.43 ug/ml	727997	1,4-Dichlorobenzene-d4	2678981

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,3-Butanedione	1661	000431-03-8	9.00
2	2-Butanone, 3-methyl-	1769	000563-80-4	4.00
3	Pent-3-enylamine	1569	087156-70-5	3.00
4	Butane, 2,3-dimethyl-	1832	000079-29-8	3.00
5	2-Pentanone, 3-ethyl-	7514	006137-03-7	2.00



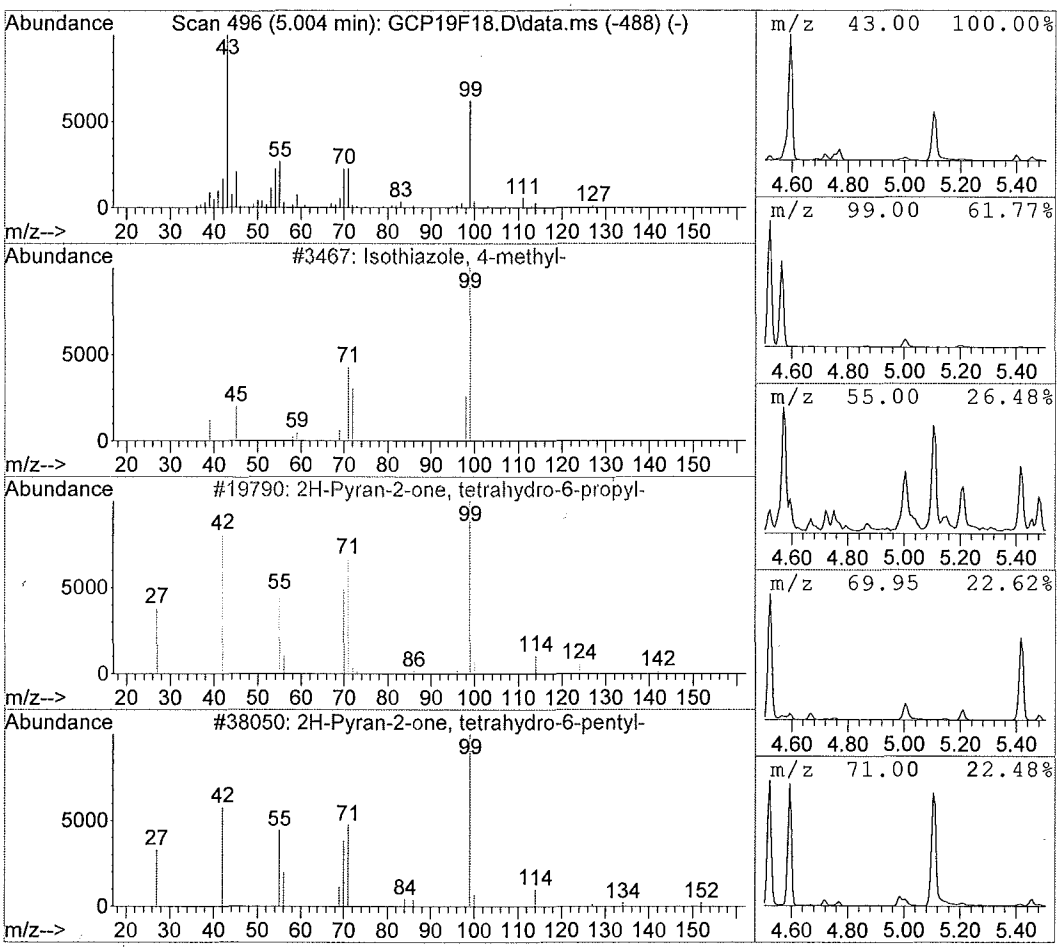
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP19F18.D Vial: 16
Acq On : 07/10/2015 20:20 Operator: TJM
Sample : 1515542018 F9M37 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
5.00	5.43 ug/ml	727307	1,4-Dichlorobenzene-d4	2678981

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Isothiazole, 4-methyl-	3467	000693-90-3	46.00
2	2H-Pyran-2-one, tetrahydro-6-propyl	19790	000698-76-0	43.00
3	2H-Pyran-2-one, tetrahydro-6-pentyl	38050	000705-86-2	37.00
4	Thiazole, 5-methyl-	3461	003581-89-3	37.00
5	4H-Imidazol-4-one, 2-amino-1,5-dihy	3444	000503-86-6	35.00



Library Search Compound Report

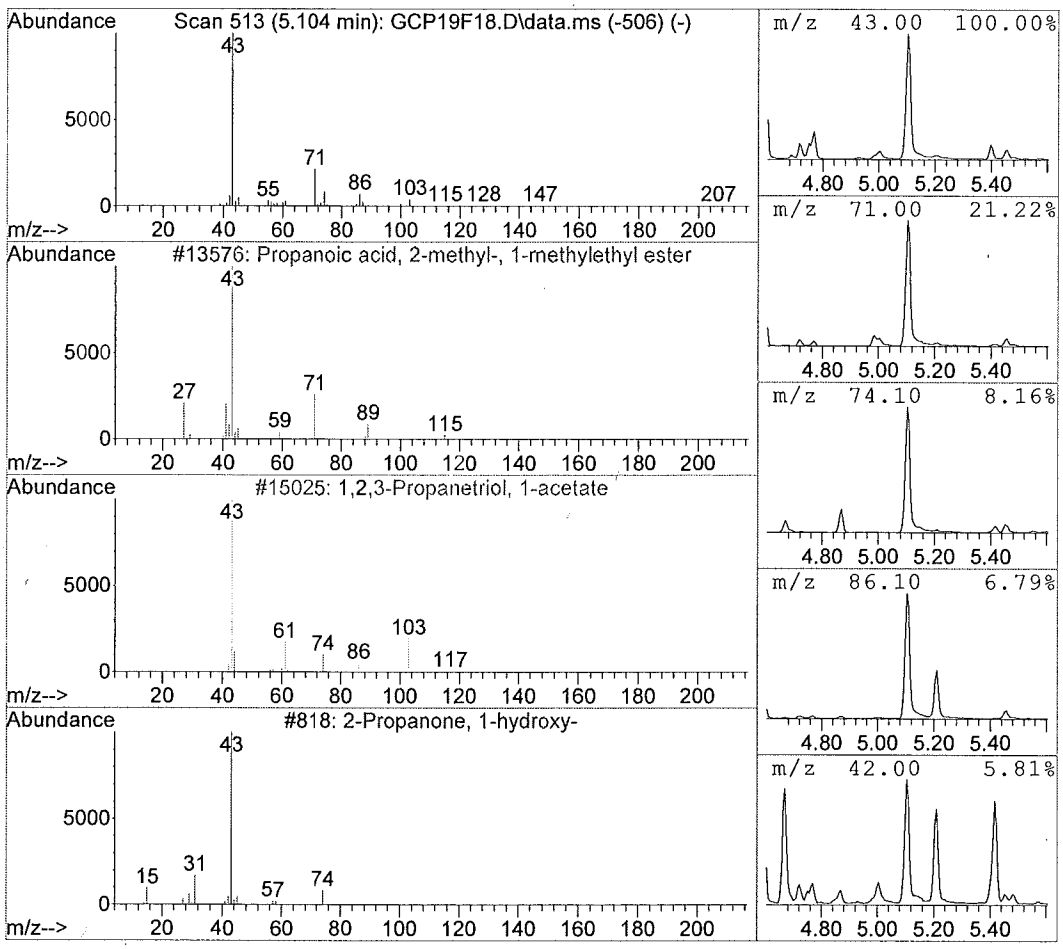
Data File : R:\G\2015\JUL15\10JUL15\GCP19F18.D
Acq On : 07/10/2015 20:20
Sample : 1515542018 F9M37
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 16
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
5.10	26.31 ug/ml	3523665	1,4-Dichlorobenzene-d4	2678981

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propanoic acid, 2-methyl-, 1-methyl	13576	000617-50-5	28.00
2	1,2,3-Propanetriol, 1-acetate	15025	000106-61-6	23.00
3	2-Propanone, 1-hydroxy-	818	000116-09-6	22.00
4	Butanoic acid, 3-hydroxy-, methyl e	8732	053562-86-0	12.00
5	Ethanone, 1-oxiranyl-	1669	004401-11-0	10.00



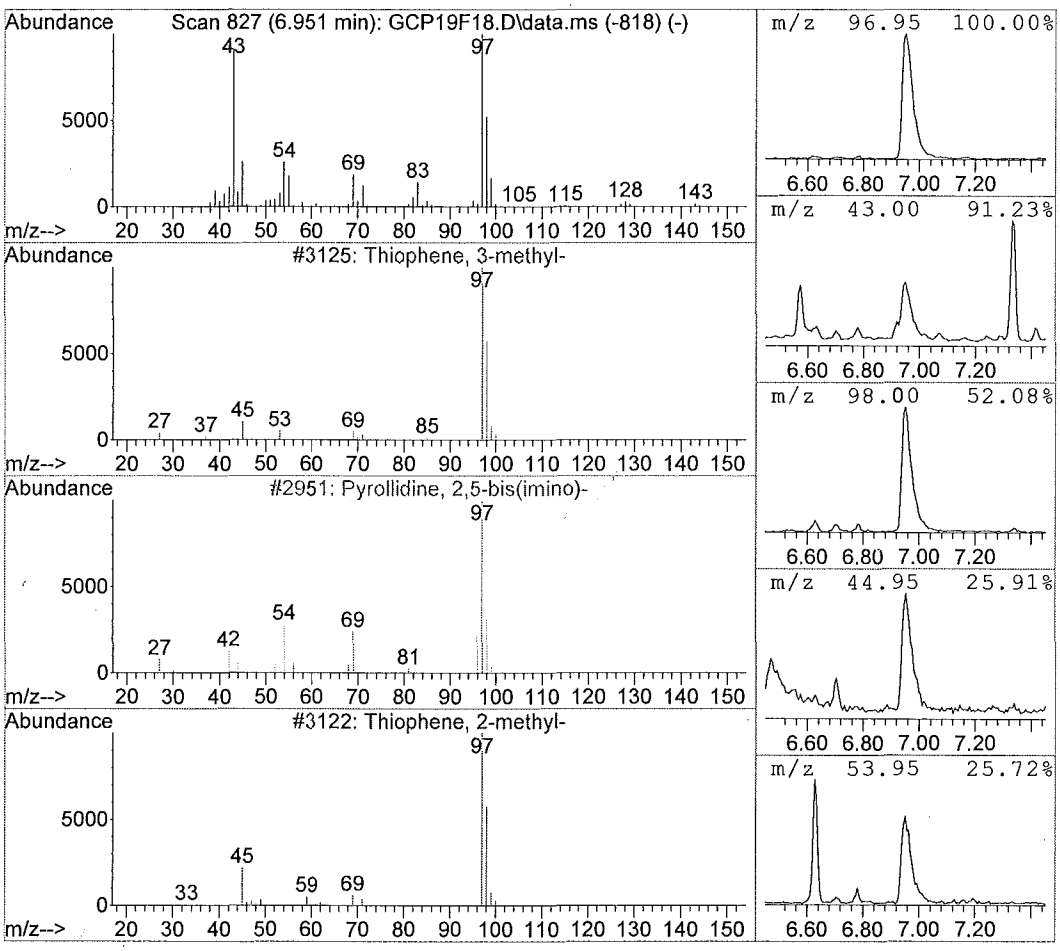
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP19F18.D Vial: 16
Acq On : 07/10/2015 20:20 Operator: TJM
Sample : 1515542018 F9M37 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
6.95	4.40 ug/ml	695397	Naphthalene-d8	3160356

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Thiophene, 3-methyl-	3125	000616-44-4	58.00
2	Pyrollidine, 2,5-bis(imino)-	2951	000503-84-4	43.00
3	Thiophene, 2-methyl-	3122	000554-14-3	42.00
4	2-(2-Thienyl)ethylamine	11788	030433-91-1	40.00
5	2-Thiopheneacetic acid, tetradecyl	175311	1000278-91-9	37.00



Library Search Compound Report

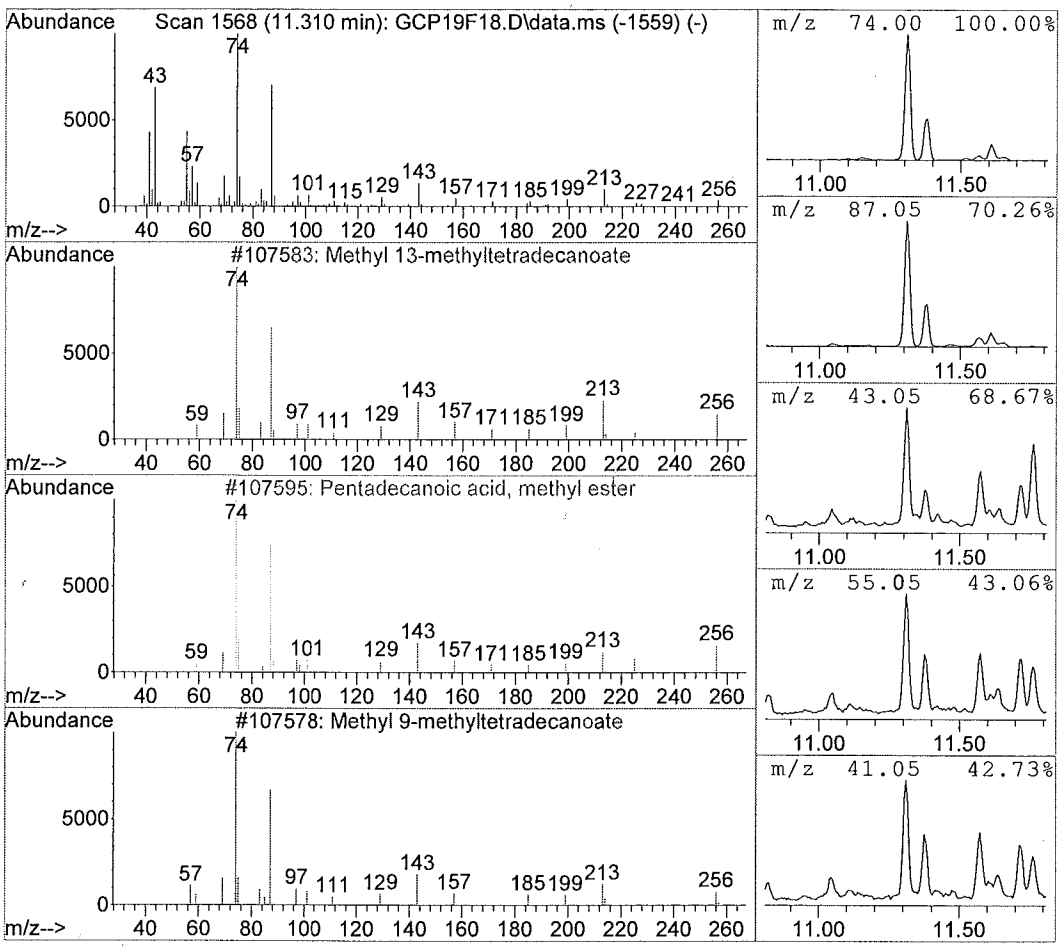
Data File : R:\G\2015\JUL15\10JUL15\GCP19F18.D
Acq On : 07/10/2015 20:20
Sample : 1515542018 F9M37
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 16
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	6.16 ug/ml	1015782	Phenanthrene-d10	3298390

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Methyl 13-methyltetradecanoate	107583	1000336-31-4	96.00
2	Pentadecanoic acid, methyl ester	107595	007132-64-1	94.00
3	Methyl 9-methyltetradecanoate	107578	213617-69-7	90.00
4	Hexadecanoic acid, methyl ester	119408	000112-39-0	86.00
5	Methyl tetradecanoate	95859	000124-10-7	86.00



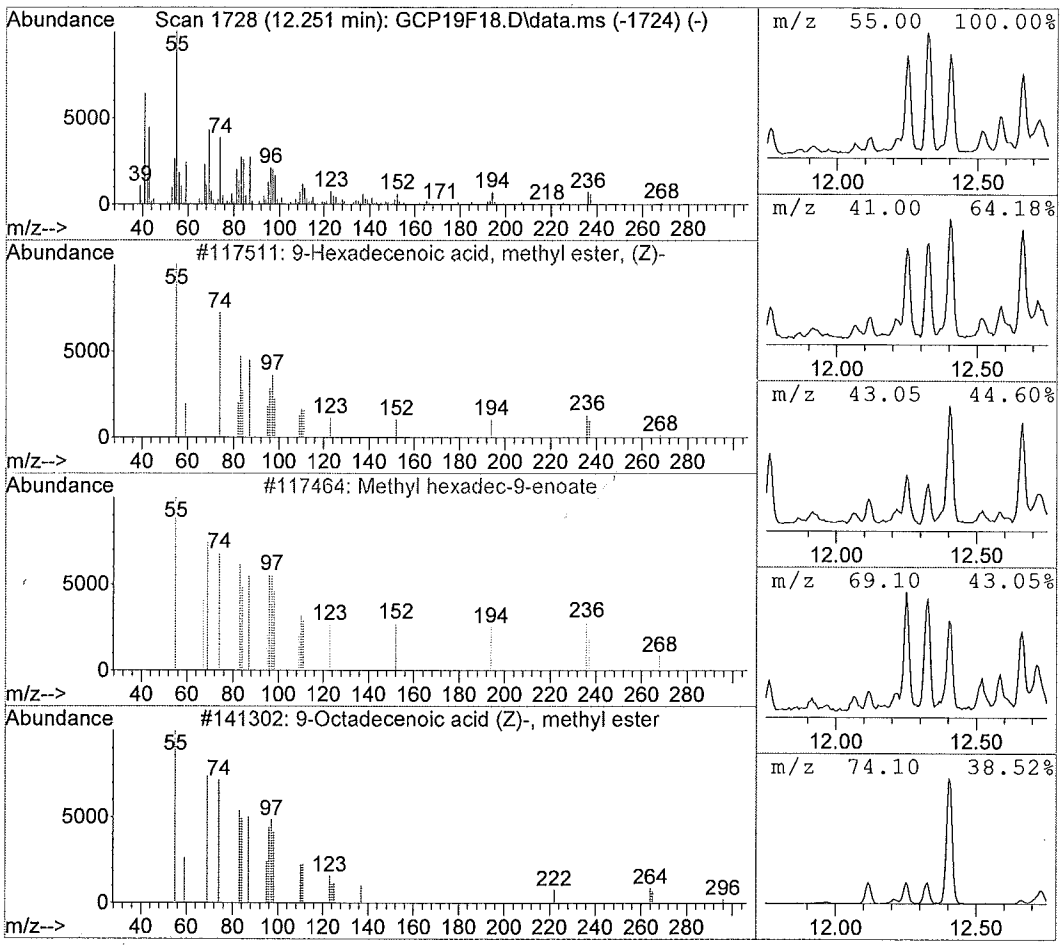
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP19F18.D Vial: 16
Acq On : 07/10/2015 20:20 Operator: TJM
Sample : 1515542018 F9M37 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	5.50 ug/ml	906982	Phenanthrene-d10	3298390

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Hexadecenoic acid, methyl ester,	117511	001120-25-8	99.00
2	Methyl hexadec-9-enoate	117464	010030-74-7	87.00
3	9-Octadecenoic acid (Z)-, methyl es	141302	000112-62-9	83.00
4	Methyl myristoleate	94118	056219-06-8	72.00
5	14-Methylpentadec-9-enoic acid meth	117520	1000365-89-7	72.00



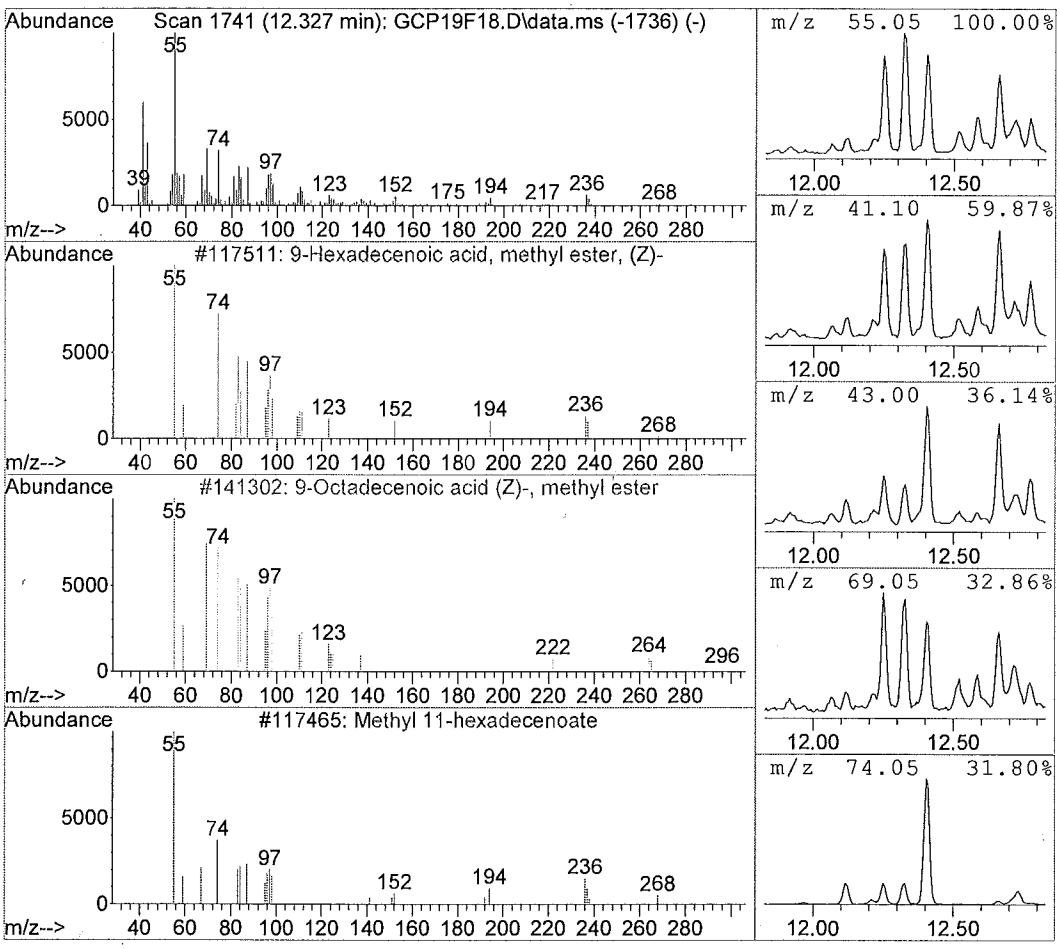
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP19F18.D Vial: 16
Acq On : 07/10/2015 20:20 Operator: TJM
Sample : 1515542018 F9M37 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
12.33	5.53 ug/ml	911422	Phenanthrene-d10	3298390

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Hexadecenoic acid, methyl ester,	117511	001120-25-8	97.00
2	9-Octadecenoic acid (Z)-, methyl es	141302	000112-62-9	87.00
3	Methyl 11-hexadecenoate	117465	1000336-35-5	76.00
4	E-11-Hexadecenoic acid, ethyl ester	129374	1000245-71-9	70.00
5	7-Hexadecenoic acid, methyl ester,	117506	056875-67-3	64.00



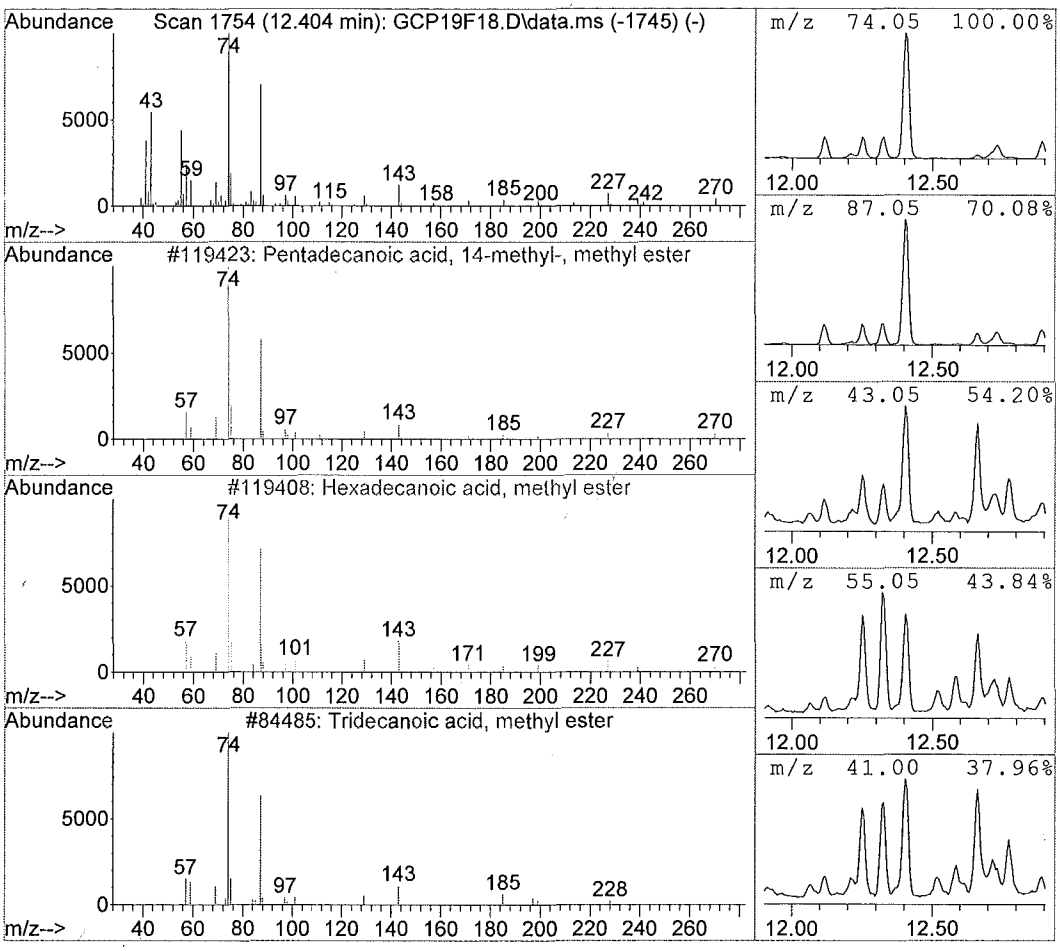
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP19F18.D Vial: 16
Acq On : 07/10/2015 20:20 Operator: TJM
Sample : 1515542018 F9M37 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	8.38 ug/ml	1381618	Phenanthrene-d10	3298390

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	Tridecanoic acid, methyl ester	84485	001731-88-0	90.00
4	Dodecanoic acid, methyl ester	72681	000111-82-0	86.00
5	Pentadecanoic acid, methyl ester	107596	007132-64-1	86.00



Library Search Compound Report

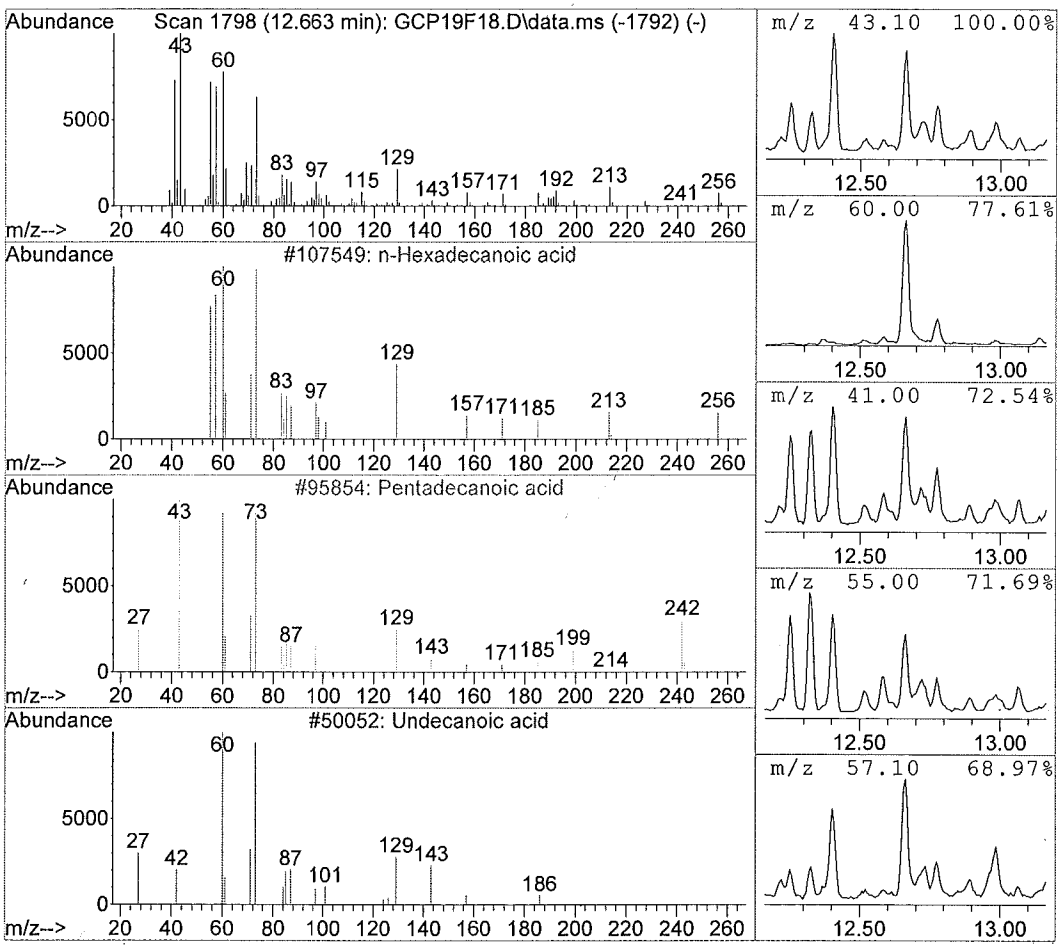
Data File : R:\G\2015\JUL15\10JUL15\GCP19F18.D
Acq On : 07/10/2015 20:20
Sample : 1515542018 F9M37
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 16
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	7.85 ug/ml	1294404	Phenanthrene-d10	3298390

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	n-Hexadecanoic acid	107549	000057-10-3	96.00
2	Pentadecanoic acid	95854	001002-84-2	80.00
3	Undecanoic acid	50052	000112-37-8	72.00
4	Dodecanoic acid	61117	000143-07-7	64.00
5	Tridecanoic acid	72646	000638-53-9	64.00



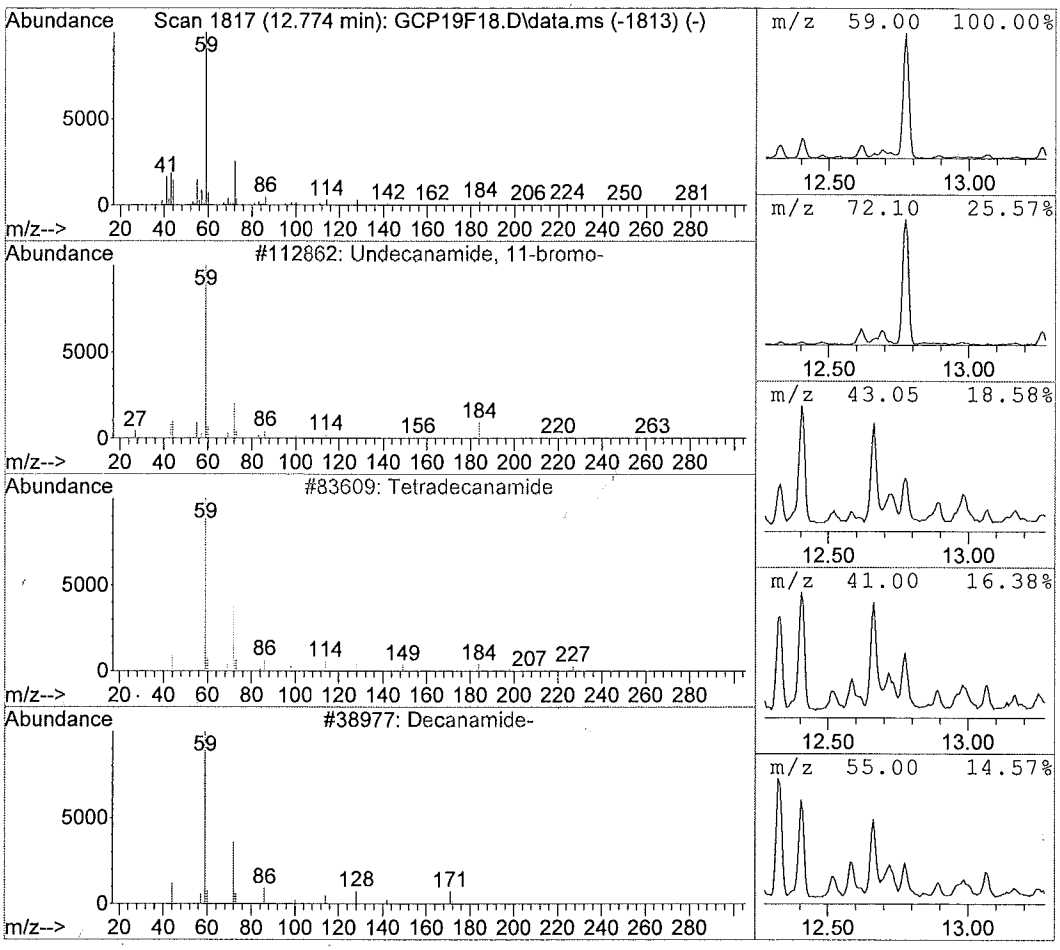
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP19F18.D Vial: 16
Acq On : 07/10/2015 20:20 Operator: TJM
Sample : 1515542018 F9M37 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	3.56 ug/ml	587176	Phenanthrene-d10	3298390

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Undecanamide, 11-bromo-	112862	005875-26-3	83.00
2	Tetradecanamide	83609	000638-58-4	78.00
3	Decanamide-	38977	002319-29-1	78.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	78.00
5	Nonanamide	29478	001120-07-6	78.00



Library Search Compound Report

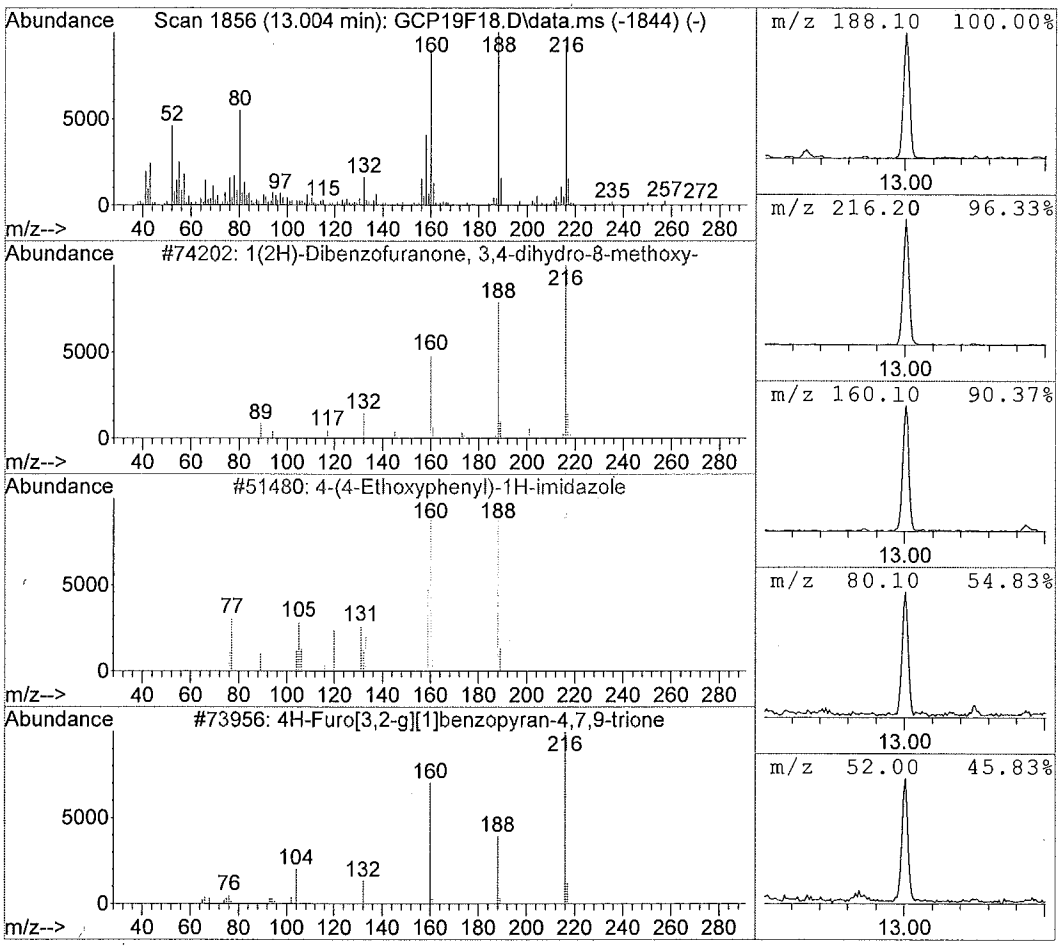
Data File : R:\G\2015\JUL15\10JUL15\GCP19F18.D
Acq On : 07/10/2015 20:20
Sample : 1515542018 F9M37
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 16
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	5.43 ug/ml	894974	Phenanthrene-d10	3298390

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1(2H)-Dibenzofuranone, 3,4-dihydro-	74202	095338-40-2	38.00
2	4-(4-Ethoxyphenyl)-1H-imidazole	51480	1000311-54-8	18.00
3	4H-Furo[3,2-g][1]benzopyran-4,7,9-t	73956	000483-36-3	16.00
4	Pyrimidine, 4-ethoxy-6-(2-hydroxyph	73997	097630-78-9	16.00
5	Pyrene, 1-methyl-	74411	002381-21-7	15.00



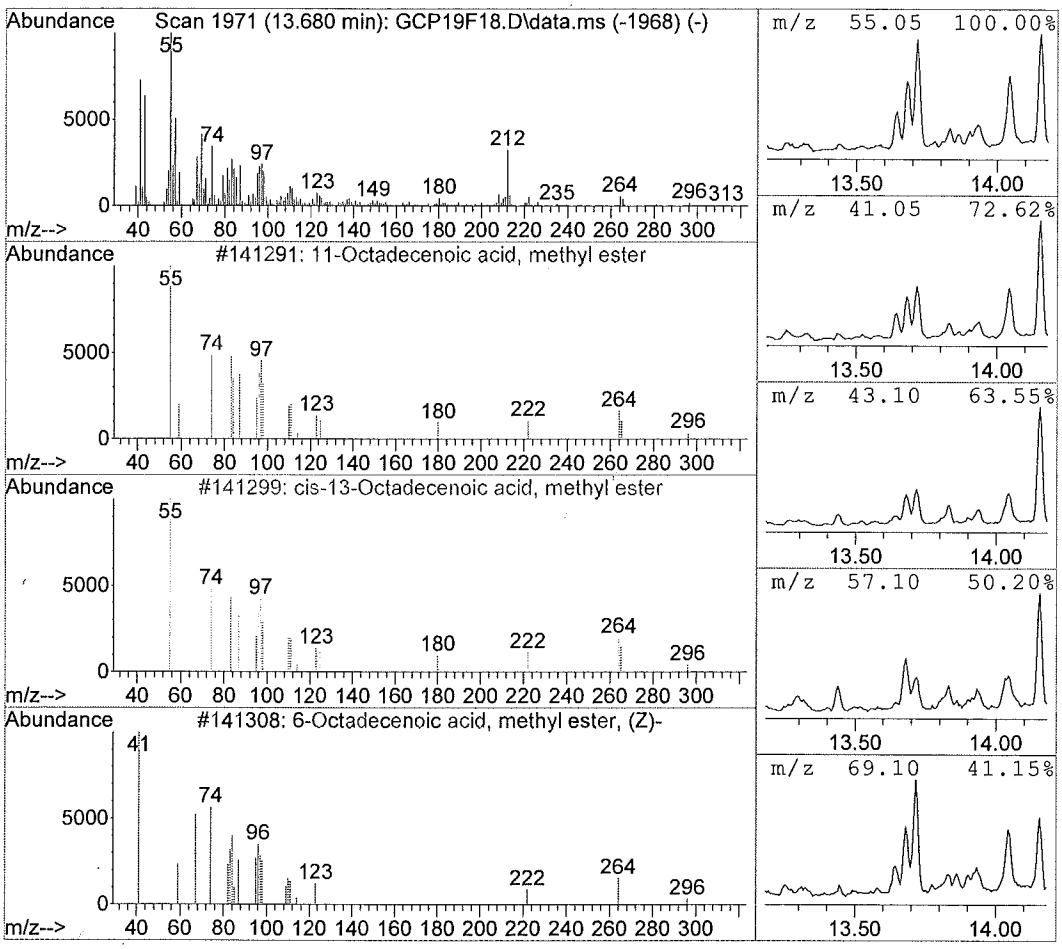
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP19F18.D Vial: 16
Acq On : 07/10/2015 20:20 Operator: TJM
Sample : 1515542018 F9M37 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	3.10 ug/ml	765948	Chrysene-d12	4937903

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	6-Octadecenoic acid, methyl ester,	141308	002777-58-4	98.00
4	trans-13-Octadecenoic acid, methyl	141314	1000333-61-3	98.00
5	10-Octadecenoic acid, methyl ester	141285	013481-95-3	98.00



Library Search Compound Report

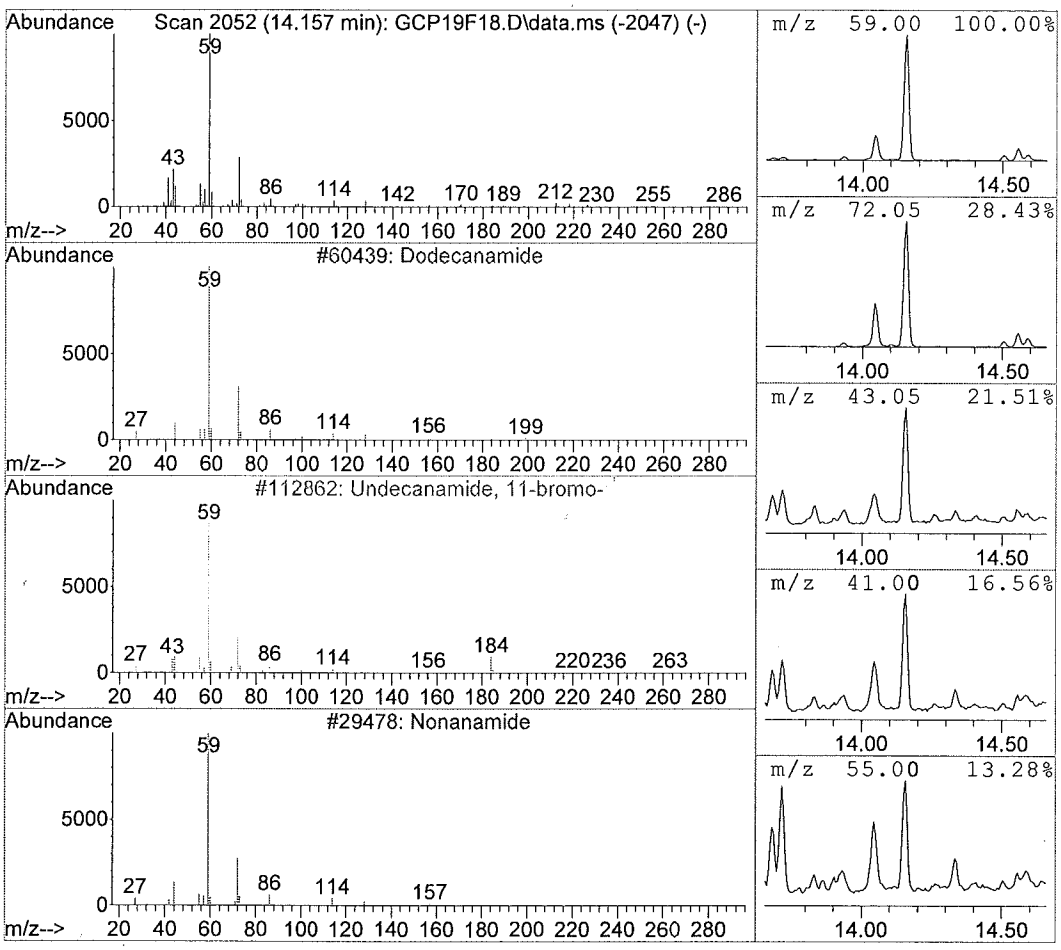
Data File : R:\G\2015\JUL15\10JUL15\GCP19F18.D
Acq On : 07/10/2015 20:20
Sample : 1515542018 F9M37
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 16
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
14.16	8.18 ug/ml	2018806	Chrysene-d12	4937903

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	91.00
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	Decanamide-	38977	002319-29-1	78.00



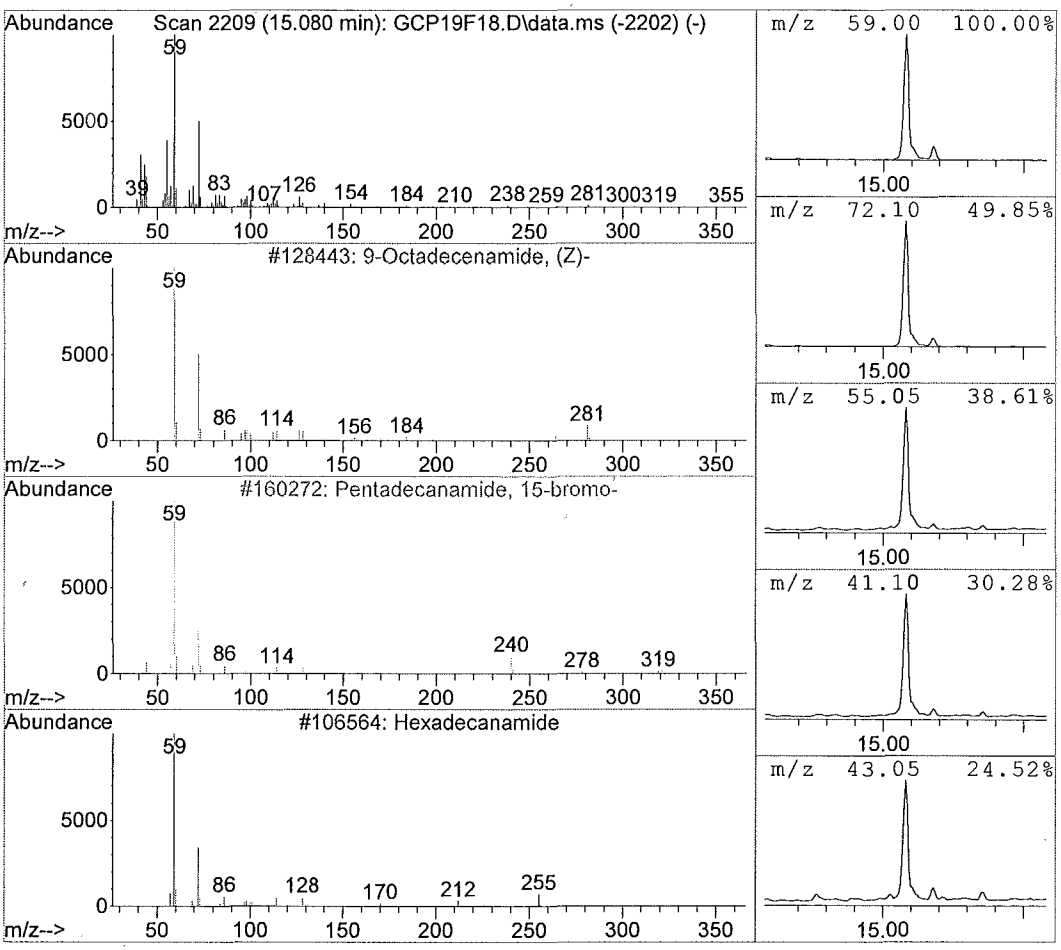
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP19F18.D Vial: 16
Acq On : 07/10/2015 20:20 Operator: TJM
Sample : 1515542018 F9M37 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
15.08	44.57 ug/ml	11004139	Chrysene-d12	4937903

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	94.00
2	Pentadecanamide, 15-bromo-	160272	1000163-86-1	78.00
3	Hexadecanamide	106564	000629-54-9	78.00
4	7-Nonenamide	28131	090949-53-4	72.00
5	Tetradecanamide	83608	000638-58-4	72.00



Library Search Compound Report

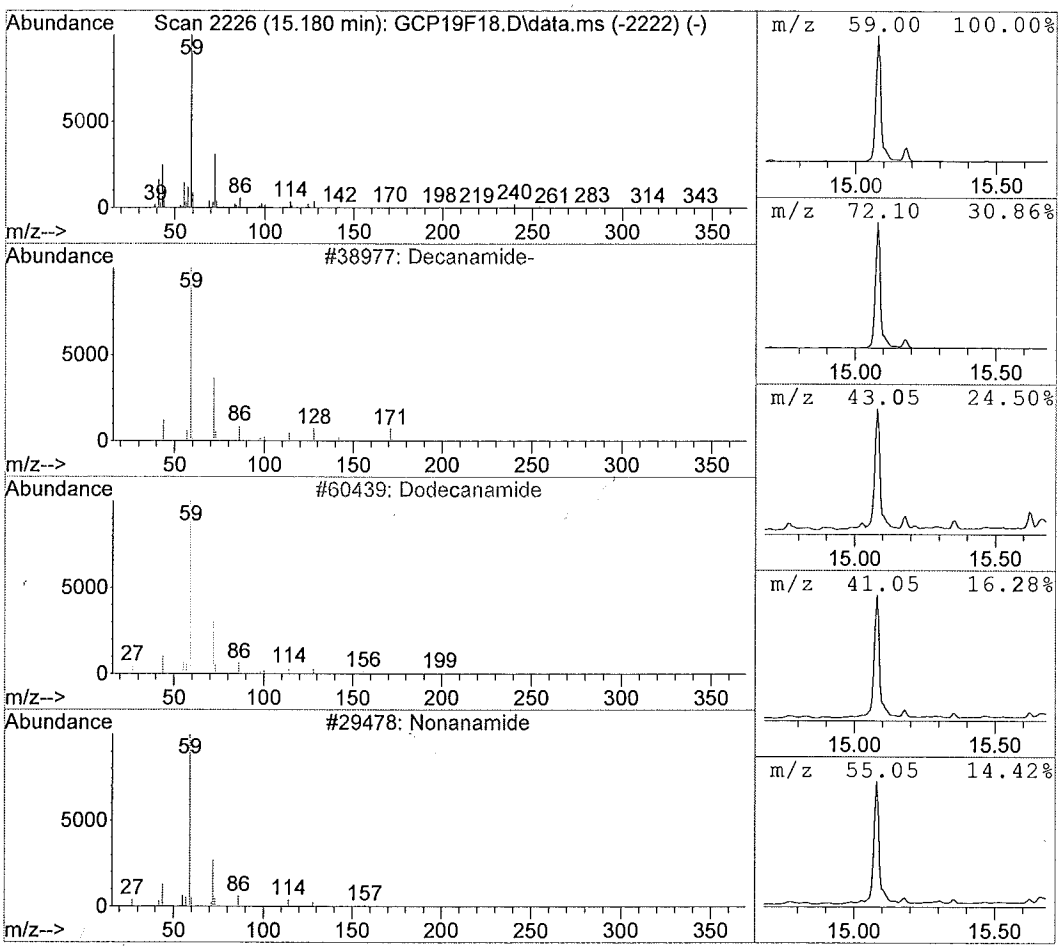
Data File : R:\G\2015\JUL15\10JUL15\GCP19F18.D
Acq On : 07/10/2015 20:20
Sample : 1515542018 F9M37
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 16
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
15.18	2.37 ug/ml	585738	Chrysene-d12	4937903

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Decanamide-	38977	002319-29-1	83.00
2	Dodecanamide	60439	001120-16-7	83.00
3	Nonanamide	29478	001120-07-6	78.00
4	Hexadecanamide	106565	000629-54-9	78.00
5	Tetradecanamide	83609	000638-58-4	78.00



Library Search Compound Report

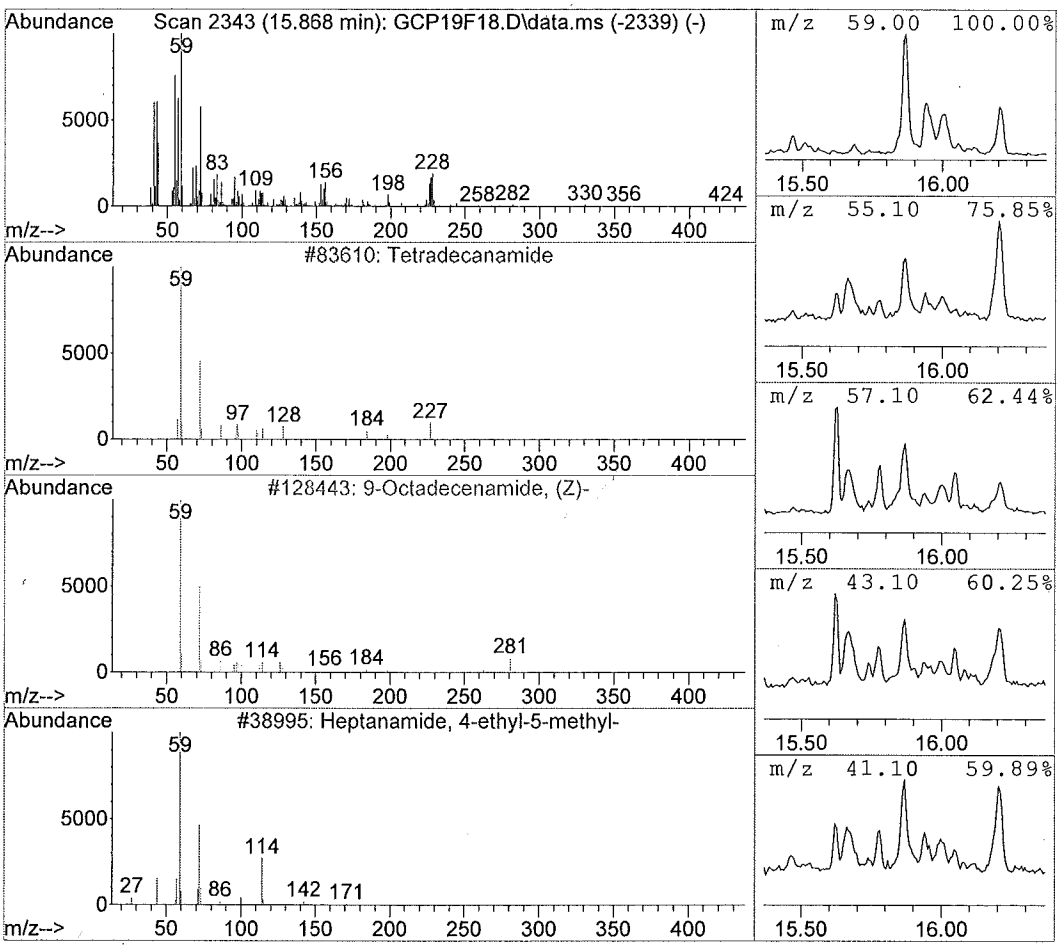
Data File : R:\G\2015\JUL15\10JUL15\GCP19F18.D
Acq On : 07/10/2015 20:20
Sample : 1515542018 F9M37
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 16
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
15.87	3.23 ug/ml	796457	Chrysene-d12	4937903

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83610	000638-58-4	76.00
2	9-Octadecenamide, (Z)-	128443	000301-02-0	53.00
3	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	50.00
4	Octadecanamide	130204	000124-26-5	50.00
5	7-Nonenamide	28131	090949-53-4	46.00



Library Search Compound Report

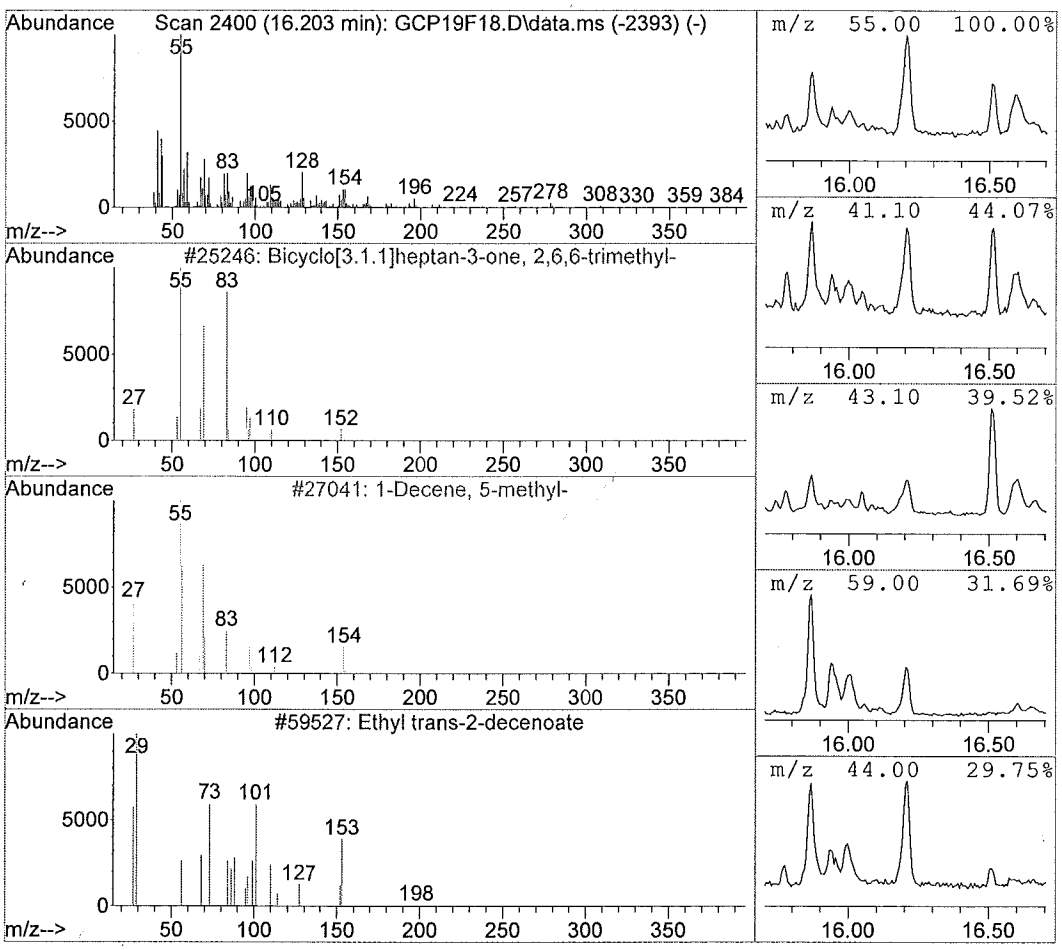
Data File : R:\G\2015\JUL15\10JUL15\GCP19F18.D
Acq On : 07/10/2015 20:20
Sample : 1515542018 F9M37
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 16
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	5.40 ug/ml	1332229	Chrysene-d12	4937903

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Bicyclo[3.1.1]heptan-3-one, 2,6,6-t	25246	018358-53-7	38.00
2	1-Decene, 5-methyl-	27041	054244-79-0	15.00
3	Ethyl trans-2-decenoate	59527	007367-88-6	11.00
4	1,3-Cyclohexanedione, 2-propyl-	27657	054244-73-4	11.00
5	5-Tetradecene, (Z)-	58286	041446-62-2	11.00



: 00522

Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP19F18.D
Acq On : 07/10/2015 20:20
Sample : 1515542018 F9M37
Misc : . SOIL SOM
MS Integration Params: rteint.p

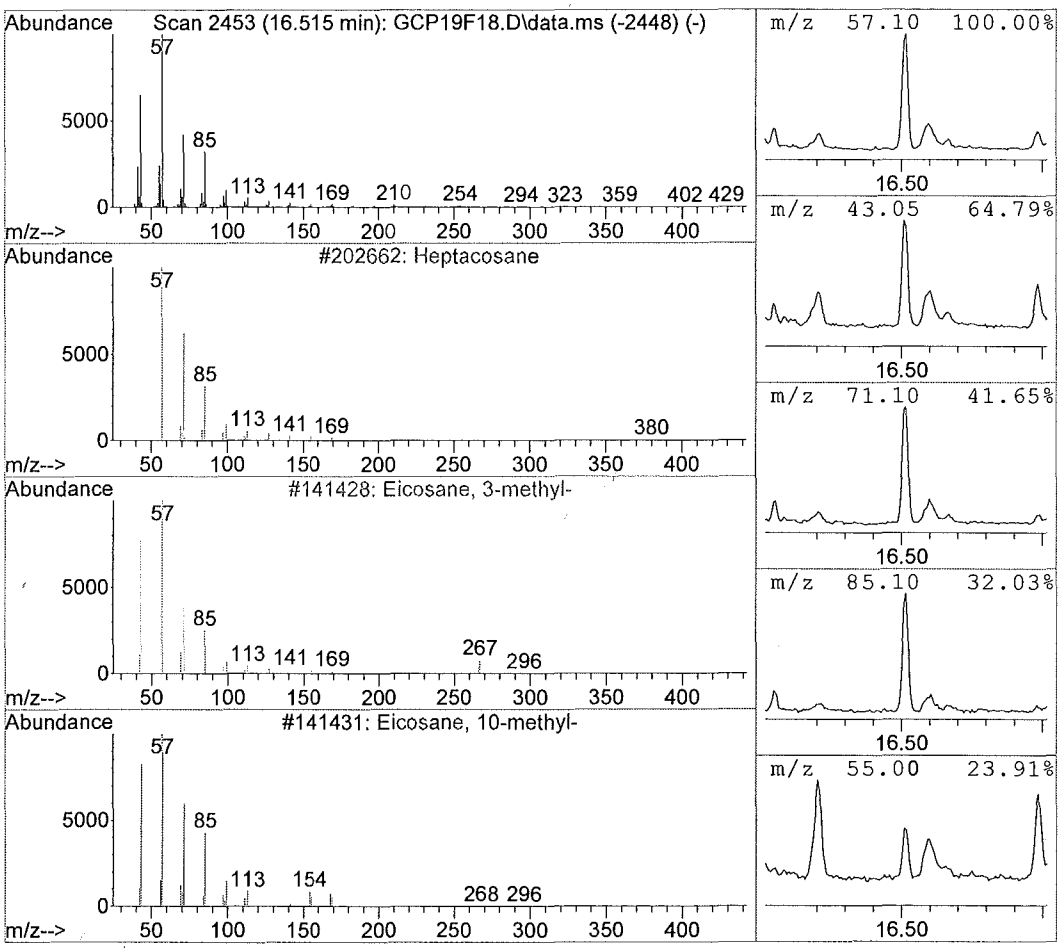
Vial: 16
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

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
16.52	4.78 ug/ml	1180383	Chrysene-d12	4937903

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptacosane	202662	000593-49-7	98.00
2	Eicosane, 3-methyl-	141428	006418-46-8	91.00
3	Eicosane, 10-methyl-	141431	054833-23-7	91.00
4	Octacosane	209566	000630-02-4	90.00
5	Docosane, 11-butyl-	194500	013475-76-8	87.00

SGT



00523

Library Search Compound Report

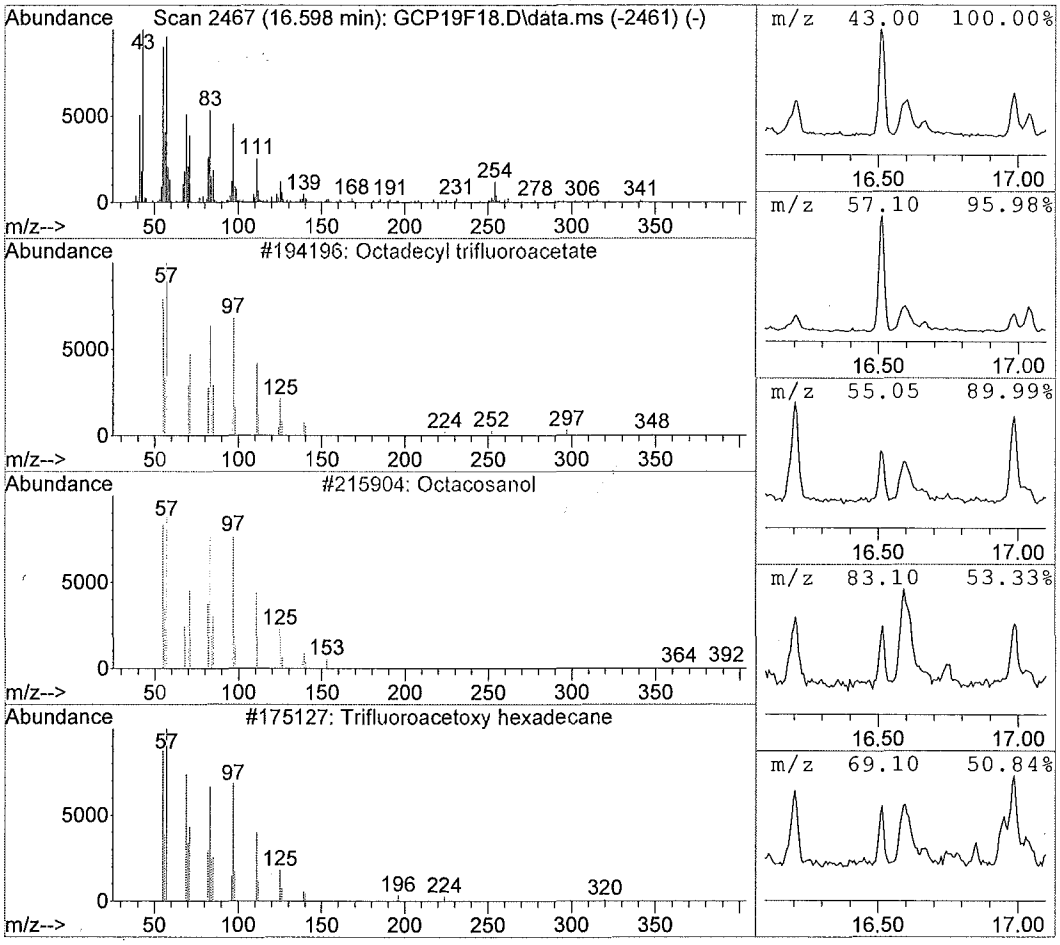
Data File : R:\G\2015\JUL15\10JUL15\GCP19F18.D
Acq On : 07/10/2015 20:20
Sample : 1515542018 F9M37
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 16
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	3.41 ug/ml	841153	Chrysene-d12	4937903

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octadecyl trifluoroacetate	194196	079392-43-1	91.00
2	Octacosanol	215904	000557-61-9	91.00
3	Trifluoroacetoxy hexadecane	175127	006222-03-3	91.00
4	n-Tetracosanol-1	186968	000506-51-4	90.00
5	Cyclotetracosane	174179	000297-03-0	90.00



00521

Library Search Compound Report

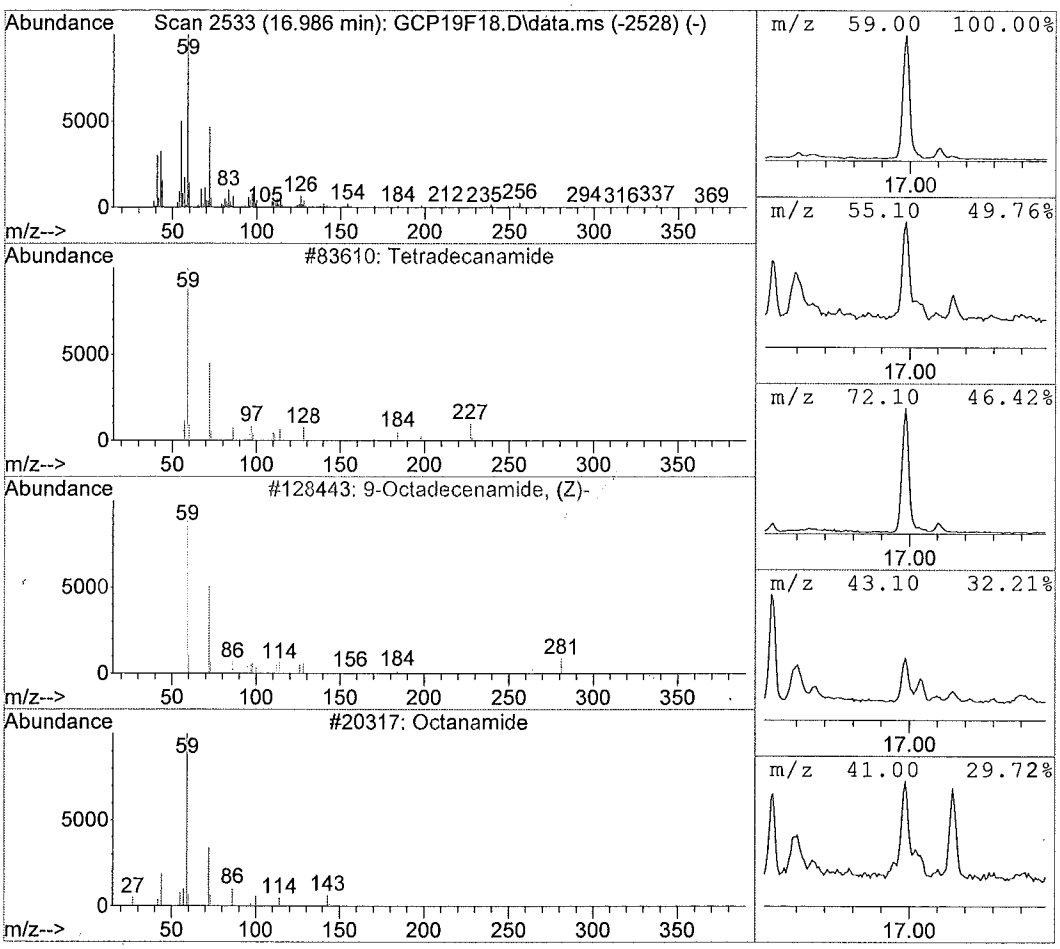
Data File : R:\G\2015\JUL15\10JUL15\GCP19F18.D
Acq On : 07/10/2015 20:20
Sample : 1515542018 F9M37
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 16
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
16.99	12.05 ug/ml	1228514	Perylene-d12	2038950

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83610	000638-58-4	87.00
2	9-Octadecenamide, (Z)-	128443	000301-02-0	83.00
3	Octanamide	20317	000629-01-6	64.00
4	Hexadecanamide	106565	000629-54-9	64.00
5	7-Nonenamide	28131	090949-53-4	56.00



Library Search Compound Report

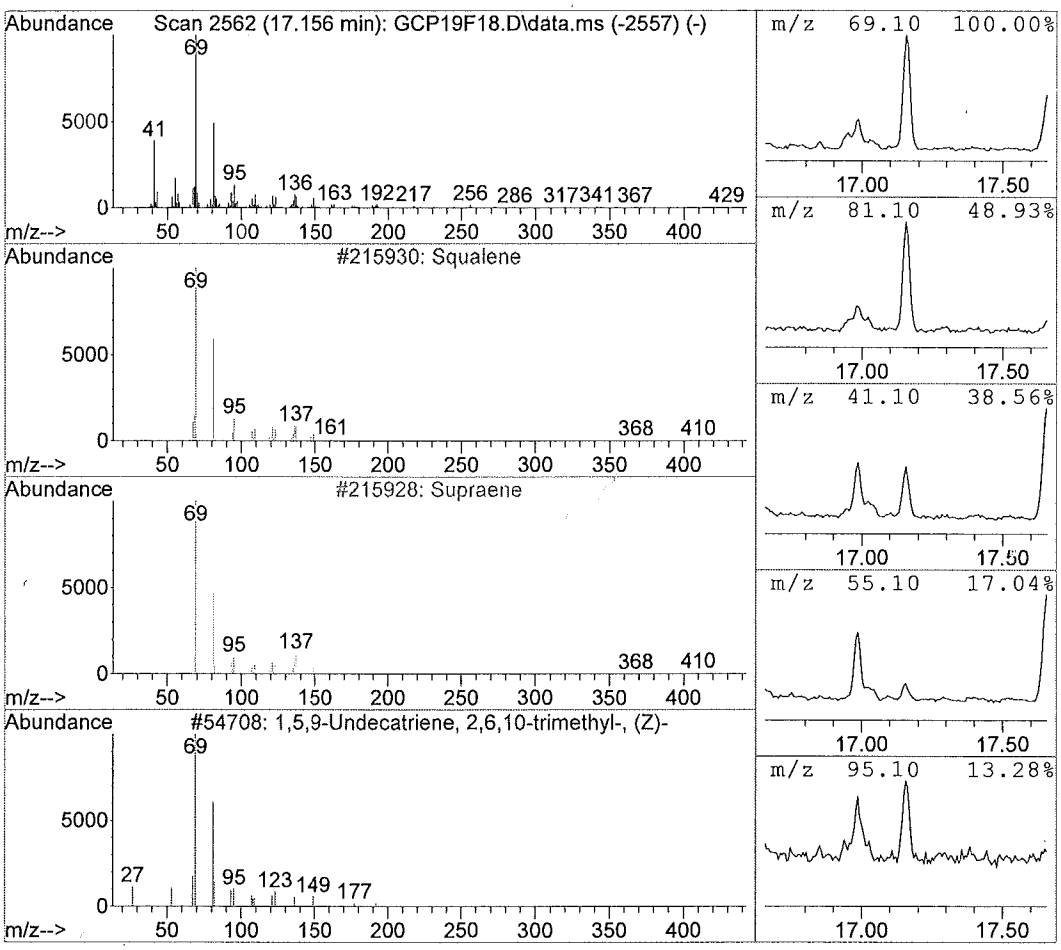
Data File : R:\G\2015\JUL15\10JUL15\GCP19F18.D
Acq On : 07/10/2015 20:20
Sample : 1515542018 F9M37
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 16
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	7.62 ug/ml	777153	Perylene-d12	2038950

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Squalene	215930	000111-02-4	91.00
2	Supraene	215928	007683-64-9	91.00
3	1,5,9-Undecatriene, 2,6,10-trimethy	54708	062951-96-6	86.00
4	2,6,10,14,18-Pentamethyl-2,6,10,14,	178776	075581-03-2	83.00
5	1,5-Heptadiene, 3,3,6-trimethyl-	16931	035387-63-4	53.00



: 00526

Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP19F18.D
Acq On : 07/10/2015 20:20
Sample : 1515542018 F9M37
Misc : . SOIL SOM
MS Integration Params: rteint.p

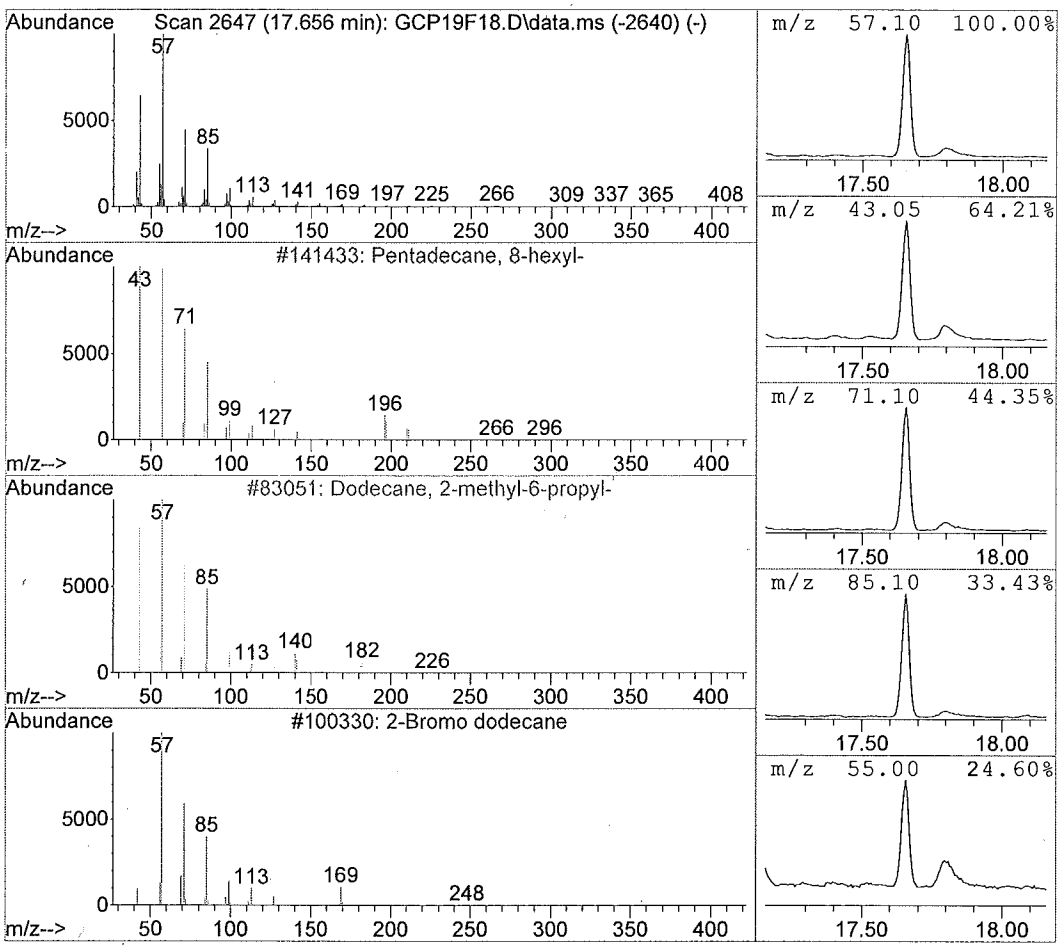
Vial: 16
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

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	38.43 ug/ml	3917809	Perylene-d12	2038950

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentadecane, 8-hexyl-	141433	013475-75-7	94.00
2	Dodecane, 2-methyl-6-propyl-	83051	055045-08-4	91.00
3	2-Bromo dodecane	100330	013187-99-0	90.00
4	Hentriacontane	223851	000630-04-6	90.00
5	Eicosane, 10-methyl-	141431	054833-23-7	87.00

BA



: 00527

Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP19F18.D
Acq On : 07/10/2015 20:20
Sample : 1515542018 F9M37
Misc : . SOIL SOM
MS Integration Params: rteint.p

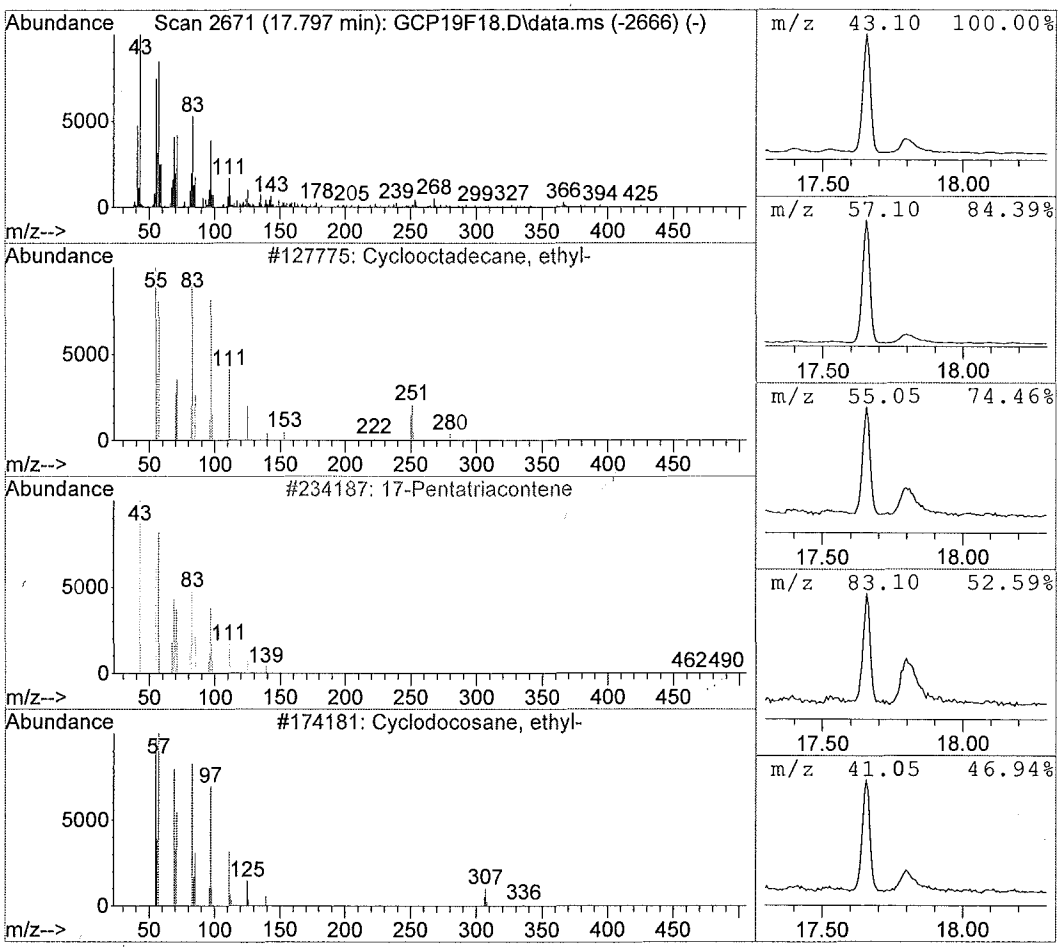
Vial: 16
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

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
17.80	6.08 ug/ml	620025	Perylene-d12	2038950

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclooctadecane, ethyl-	127775	1000151-22-5	95.00
2	17-Pentatriacontene	234187	006971-40-0	91.00
3	Cyclodocosane, ethyl-	174181	1000151-22-6	89.00
4	1-Eicosene	127767	003452-07-1	81.00
5	n-Tetracosanol-1	186968	000506-51-4	76.00

C.A.



00528

Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP19F18.D
Acq On : 07/10/2015 20:20
Sample : 1515542018 F9M37
Misc : . SOIL SOM
MS Integration Params: rteint.p

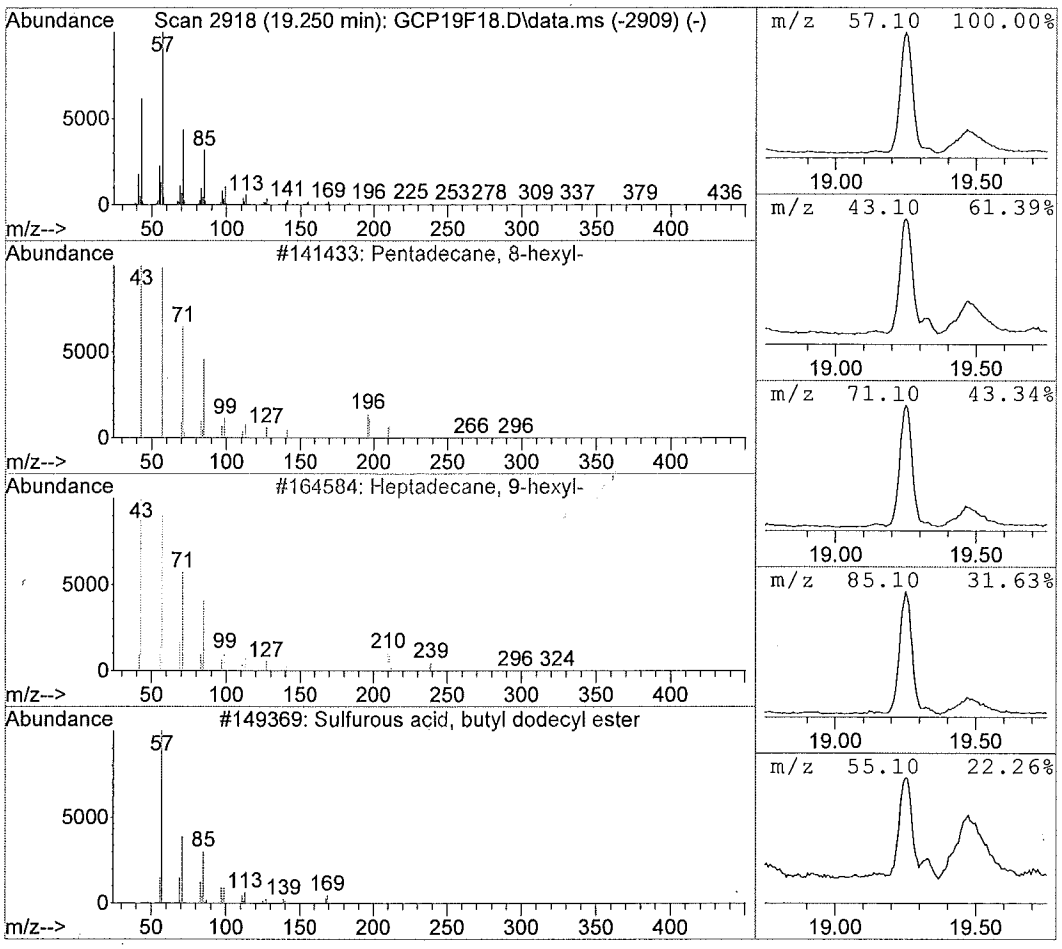
Vial: 16
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

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
19.25	37.51 ug/ml	3824174	Perylene-d12	2038950

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentadecane, 8-hexyl-	141433	013475-75-7	93.00
2	Heptadecane, 9-hexyl-	164584	055124-79-3	93.00
3	Sulfurous acid, butyl dodecyl ester	149369	1000309-17-9	91.00
4	1-Iodo-2-methylundecane	140553	073105-67-6	90.00
5	Heptacosane	202662	000593-49-7	87.00

BA



: 00529

Library Search Compound Report

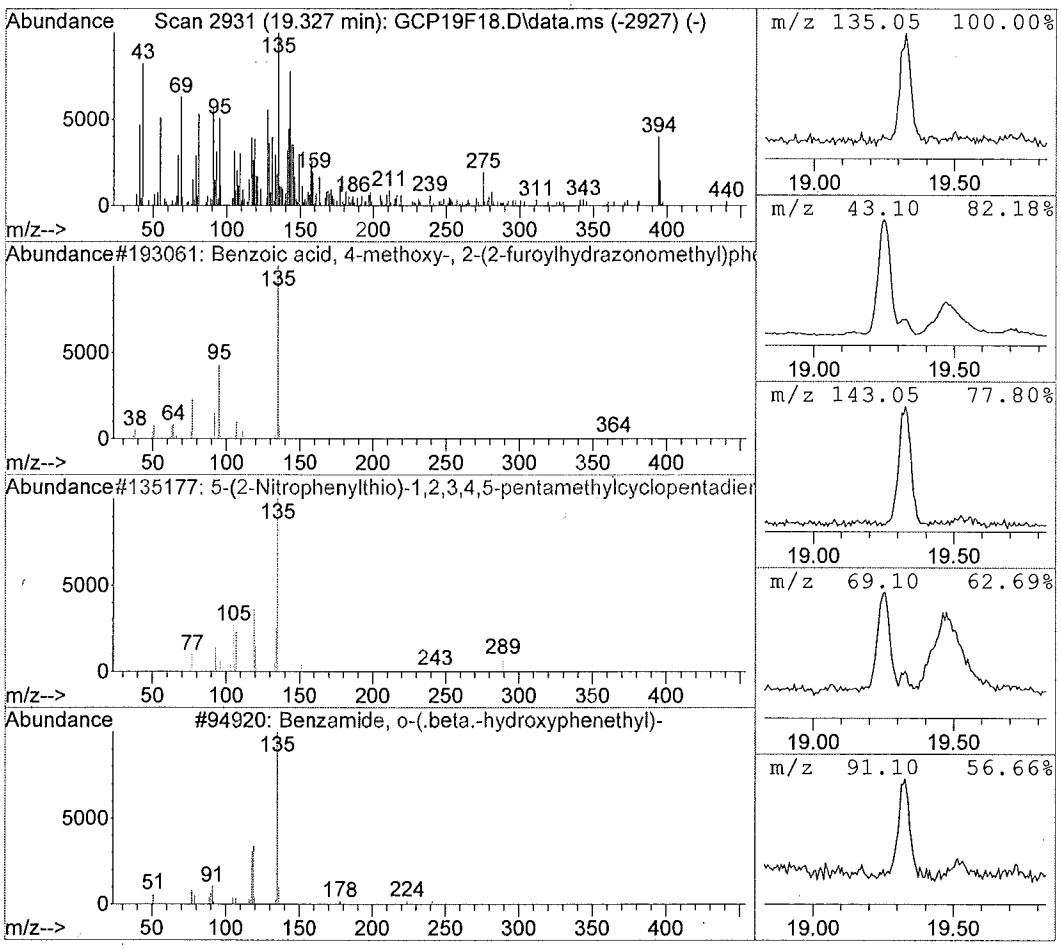
Data File : R:\G\2015\JUL15\10JUL15\GCP19F18.D
Acq On : 07/10/2015 20:20
Sample : 1515542018 F9M37
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 16
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
19.33	7.89 ug/ml	804536	Perylene-d12	2038950

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Benzoic acid, 4-methoxy-, 2-(2-furo	193061	1000296-33-3	11.00
2	5-(2-Nitrophenylthio)-1,2,3,4,5-pen	135177	187338-98-3	11.00
3	Benzamide, o-(.beta.-hydroxypheneth	94920	023966-60-1	10.00
4	2-Aziridinone, 1-(1-adamantyl)-3-(1	122040	026905-18-0	10.00
5	Benzene, 1,1'-sulfonylbis[4-fluoro-	105186	000383-29-9	10.00



Library Search Compound Report

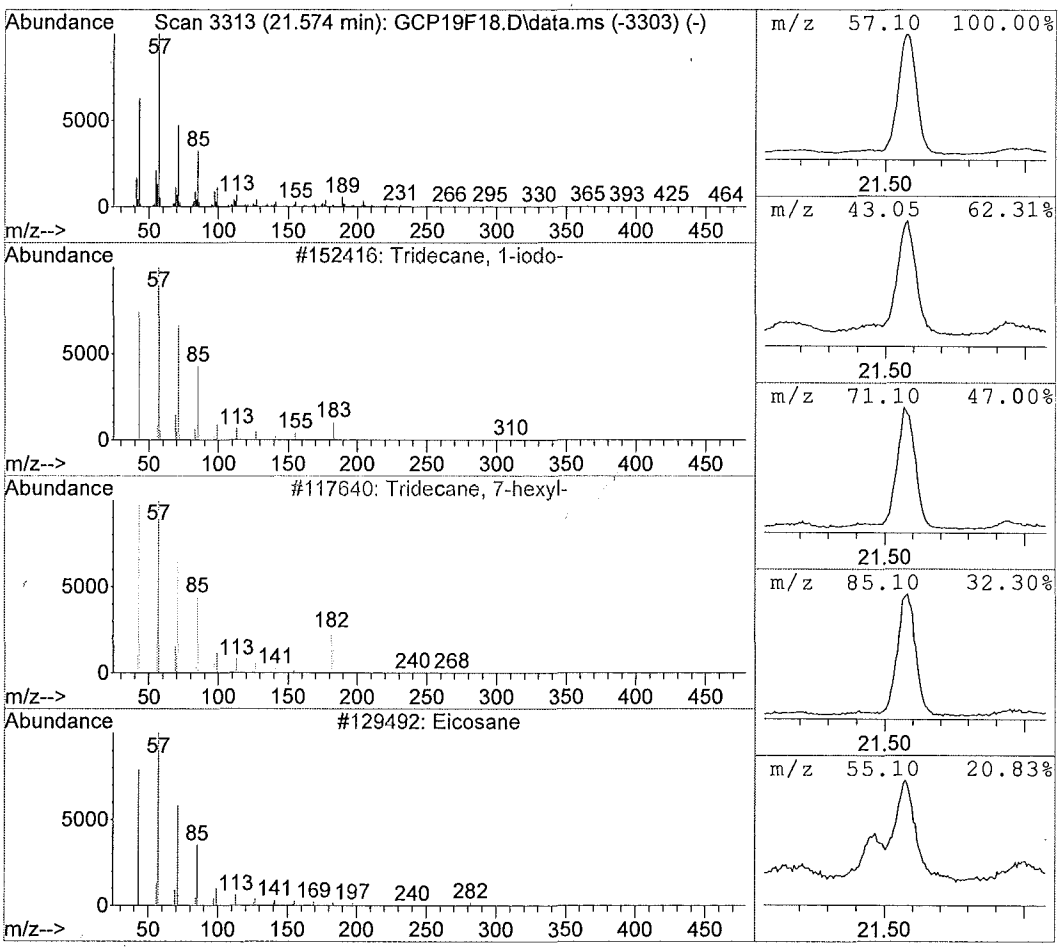
Data File : R:\G\2015\JUL15\10JUL15\GCP19F18.D
Acq On : 07/10/2015 20:20
Sample : 1515542018 F9M37
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 16
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
21.57	48.84 ug/ml	4979414	Perylene-d12	2038950

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tridecane, 1-iodo-	152416	035599-77-0	95.00
2	Tridecane, 7-hexyl-	117640	007225-66-3	91.00
3	Eicosane	129492	000112-95-8	83.00
4	Heptacosane	202662	000593-49-7	83.00
5	3,5-Dimethyldodecane	59888	107770-99-0	83.00



Library Search Compound Report

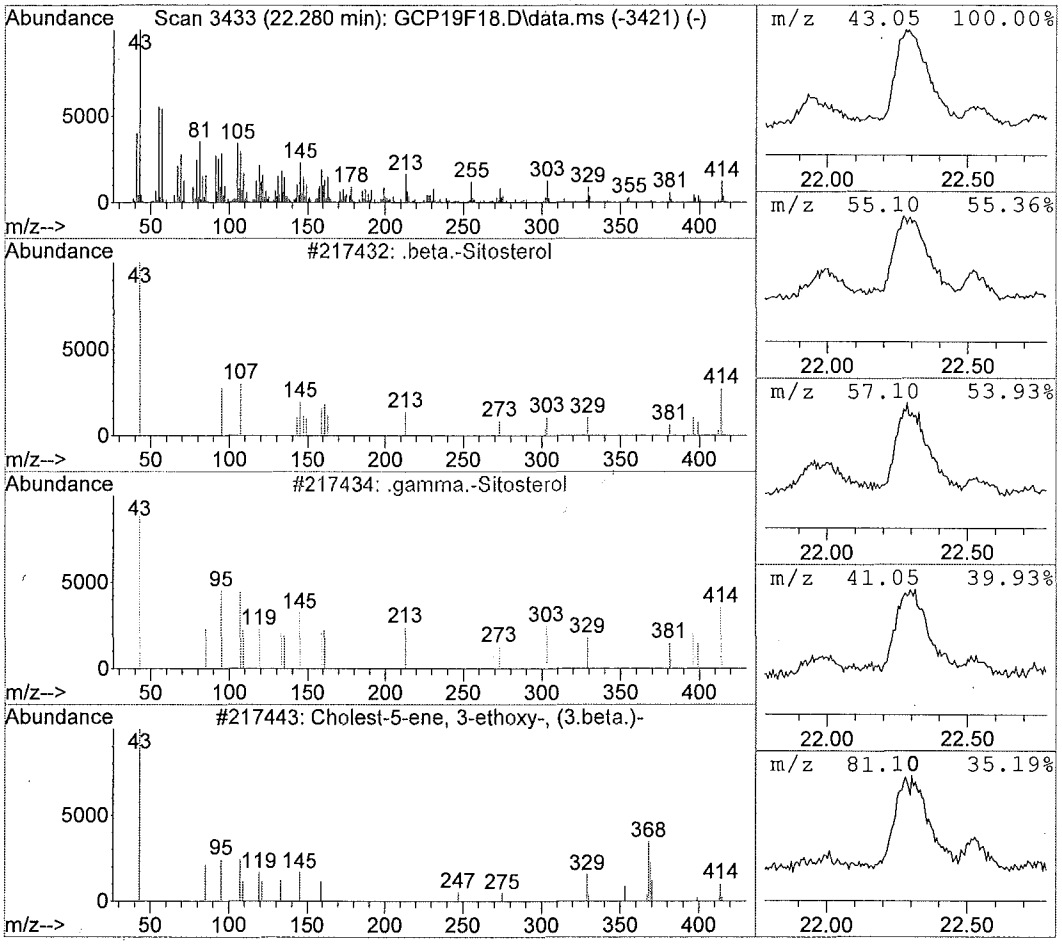
Data File : R:\G\2015\JUL15\10JUL15\GCP19F18.D
Acq On : 07/10/2015 20:20
Sample : 1515542018 F9M37
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 16
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
22.28	38.80 ug/ml	3955702	Perylene-d12	2038950

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	.beta.-Sitosterol	217432	000083-46-5	98.00
2	.gamma.-Sitosterol	217434	000083-47-6	96.00
3	Cholest-5-ene, 3-ethoxy-, (3.beta.)	217443	000986-19-6	64.00
4	Ergost-7-en-3-ol, (3.beta.)-	212395	026047-31-4	59.00
5	Isocholesteryl methyl ether	212393	029944-53-4	58.00



: 00532

Library Search Compound Report

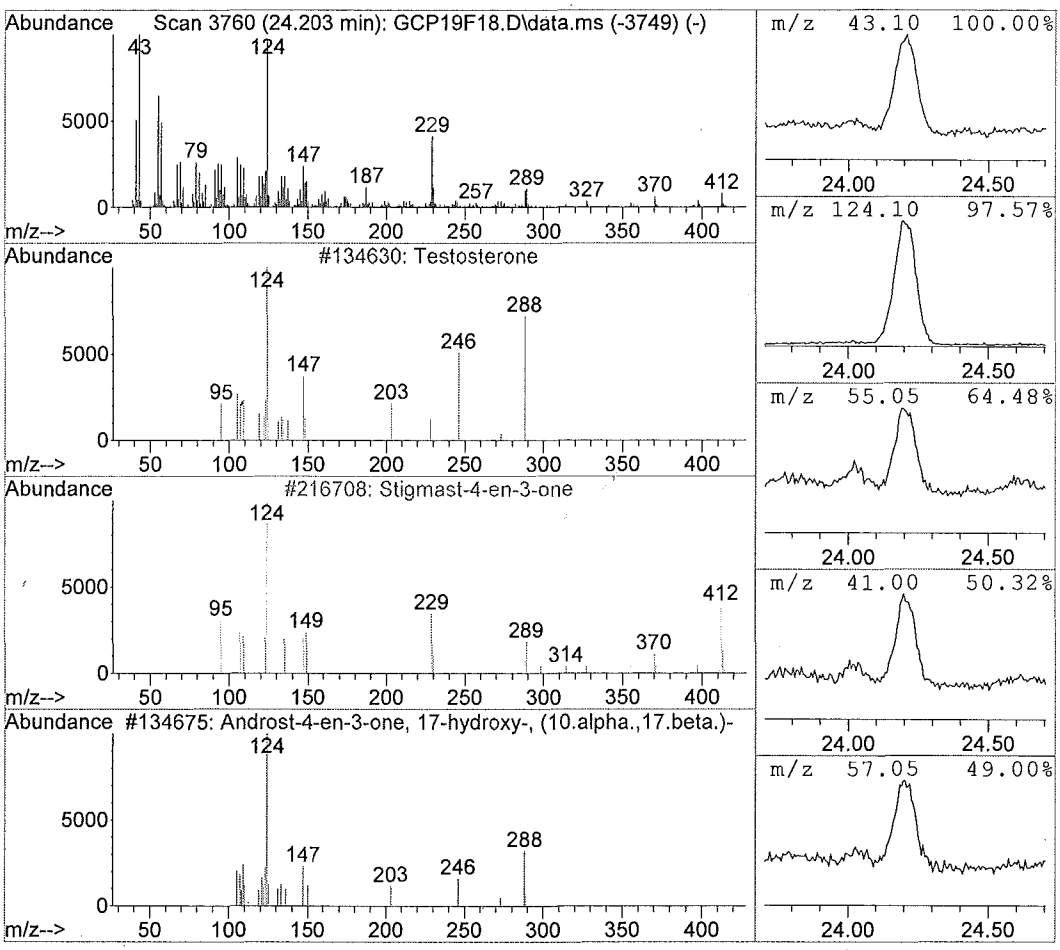
Data File : R:\G\2015\JUL15\10JUL15\GCP19F18.D
Acq On : 07/10/2015 20:20
Sample : 1515542018 F9M37
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 16
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
24.20	21.86 ug/ml	2229041	Perylene-d12	2038950

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Testosterone	134630	000058-22-0	92.00
2	Stigmast-4-en-3-one	216708	001058-61-3	90.00
3	Androst-4-en-3-one, 17-hydroxy-, (1	134675	000604-39-7	53.00
4	Acetamide, N-methyl-N-[4-[3-fluoro-	70813	1000117-63-0	38.00
5	Pregn-4-ene-3,20-dione, 7-methyl-,	167969	002640-71-3	35.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M38

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GCP20F19

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

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

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.: F9M38

Lab Name: ALS Environmental | Contract: EPW11037

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

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

Sample wt/vol: 30.2 (g/mL) g | Lab File ID: GCP20F19

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

% Moisture: 12. | Decanted: (Y/N) N | Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) | Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) | GPC Factor: 2.0 | Date Analyzed: 07/10/2015

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.: F9M38

Lab Name: ALS Environmental | Contract: EPW11037

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

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

Sample wt/vol: 30.2 (g/mL) g | Lab File ID: GCP20F19

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

% Moisture: 12. | Decanted: (Y/N) N | Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) | Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) | GPC Factor: 2.0 | Date Analyzed: 07/10/2015

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 1,3-Dioxolane, 2,2-dimethyl-	2.32	710	J
02		Unknown Oxirane-2-carboxylic acid, methyl ester	2.42	370	J
03		Unknown 2-Pentanone, 4-hydroxy-	3.31	1100	JB
04		Unknown Guanidine	3.53	22000	J
05		Unknown TATP	4.08	520	J
06		Unknown Hexane, 1,1'-oxybis-	4.19	490	J
07		Unknown 1H-Pyrrole-2,5-dione	4.28	830	J
08		Unknown 1-Propanol, 3-mercapto-	4.69	330	J
09		Unknown Ethanone, 1-(3,3-dimethyloxiranyl)-	5.00	260	J
10		Unknown 1,2,3-Propanetriol, 1-acetate	5.11	1100	J
11	1000336-31-4	Methyl 13-methyltetradecanoate	11.31	230	JN
12	112-62-9	9-Octadecenoic acid (Z)-, methyl ester	12.25	310	JN
13	1120-25-8	9-Hexadecenoic acid, methyl ester, (Z)-	12.33	260	JN
14	5129-60-2	Pentadecanoic acid, 14-methyl-, methyl ester	12.40	510	JN
15	57-10-3	n-Hexadecanoic acid	12.67	600	JN
16	2566-97-4	9,12-Octadecadienoic acid, methyl ester, (E,E)-	13.64	220	JN
17	13481-95-3	10-Octadecenoic acid, methyl ester	13.72	250	JN
18	1120-16-7	Dodecanamide	14.16	500	JN
19	301-02-0	9-Octadecenamide, (Z)-	15.08	2600	JNB
20		Unknown 9-Octadecenamide, (Z)-	15.86	210	J
21		Unknown 2-Hexenedioic acid, 2-methoxy-, dimethyl	16.20	390	J
22	1599-67-3	1-Docosene	16.58	220	JN
23	111-02-4	Squalene	17.16	340	JN
24	557-61-9	Octacosanol	17.79	510	JN
25		Unknown 1,7-Dicarbadodecaborane(12)	19.32	450	J
26	18835-33-1	1-Hexacosene	19.47	1400	JN
27	7494-34-0	26-Nor-5-cholesten-3.beta.-ol-25-one	19.90	600	JN
28		Unknown Stigmasterol	21.44	780	J
29	83-47-6	.gamma.-Sitosterol	22.26	1100	JN
30	1058-61-3	Stigmast-4-en-3-one	24.21	1500	JN
	E966796[2]	Total Alkanes	N/A	10000	J

[2] EPA-designated Registry Number.

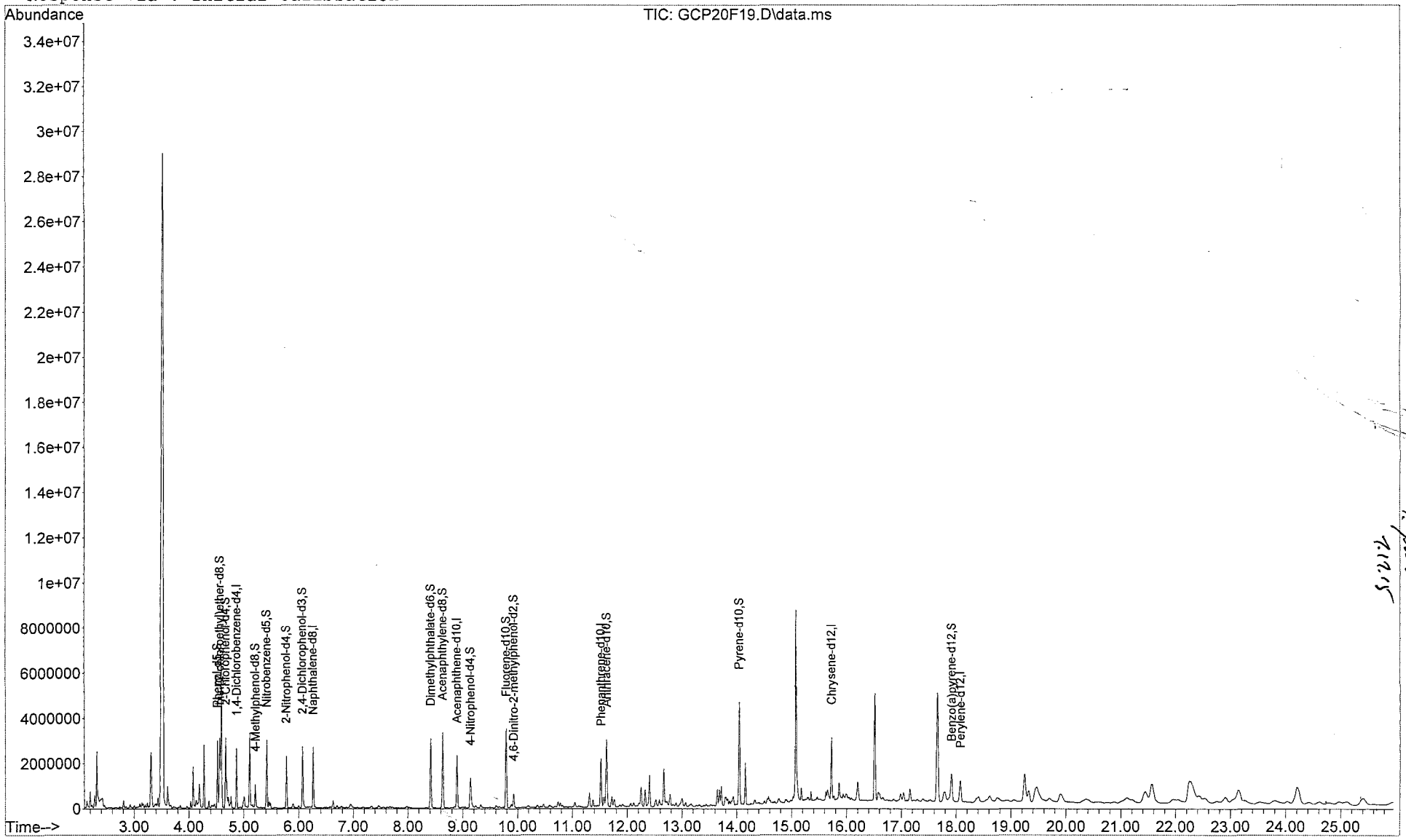
Quantitation Report

Data File : R:\G\2015\JUL15\10JUL15\GCP20F19.D
Acq On : 07/10/2015 20:53
Sample : 1515542019 F9M38
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 17 09:38:08 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\10JUL15\GCP20F19.D Vial: 17
Acq On : 07/10/2015 20:53 Operator: TJM
Sample : 1515542019 F9M38 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 17 09:38:08 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	338950	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1268463	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	708120	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1177880	20.00 ug/ml
73) Chrysene-d12	15.73	240	1110180	20.00 ug/ml
81) Perylene-d12	18.07	264	666215	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.52	99	807058	27.361ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	640748	27.875ug/mL
7) 2-Chlorophenol-d4	4.67	132	733223	29.442ug/ml
13) 4-Methylphenol-d8	5.21	113	177183	8.981ug/mL
17) Nitrobenzene-d5	5.42	128	339567	30.473ug/ml
21) 2-Nitrophenol-d4	5.77	143	357052	30.315ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	560252	30.548ug/mL
28) 4-Chloroaniline-d4	6.27	131	3475	0.174ug/mL
42) Dimethylphthalate-d6	8.42	166	1544565	34.785ug/mL
45) Acenaphthylene-d8	8.63	160	1913236	31.706ug/mL
50) 4-Nitrophenol-d4	9.14	143	283229	31.266ug/mL
57) Fluorene-d10	9.79	176	1299994	34.282ug/mL
61) 4,6-Dinitro-2-methylphenol	9.93	200	93397	11.171ug/mL
69) Anthracene-d10	11.62	188	1720082	27.537ug/mL
75) Pyrene-d10	14.04	212	1845025	33.302ug/mL
86) Benzo(a)pyrene-d12	17.92	264	840508	26.329ug/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\10JUL15\GCP20F19.D Vial: 17
Acq On : 07/10/2015 20:53 Operator: TJM
Sample : 1515542019 F9M38 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 17 09:38:08 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)

: 00539

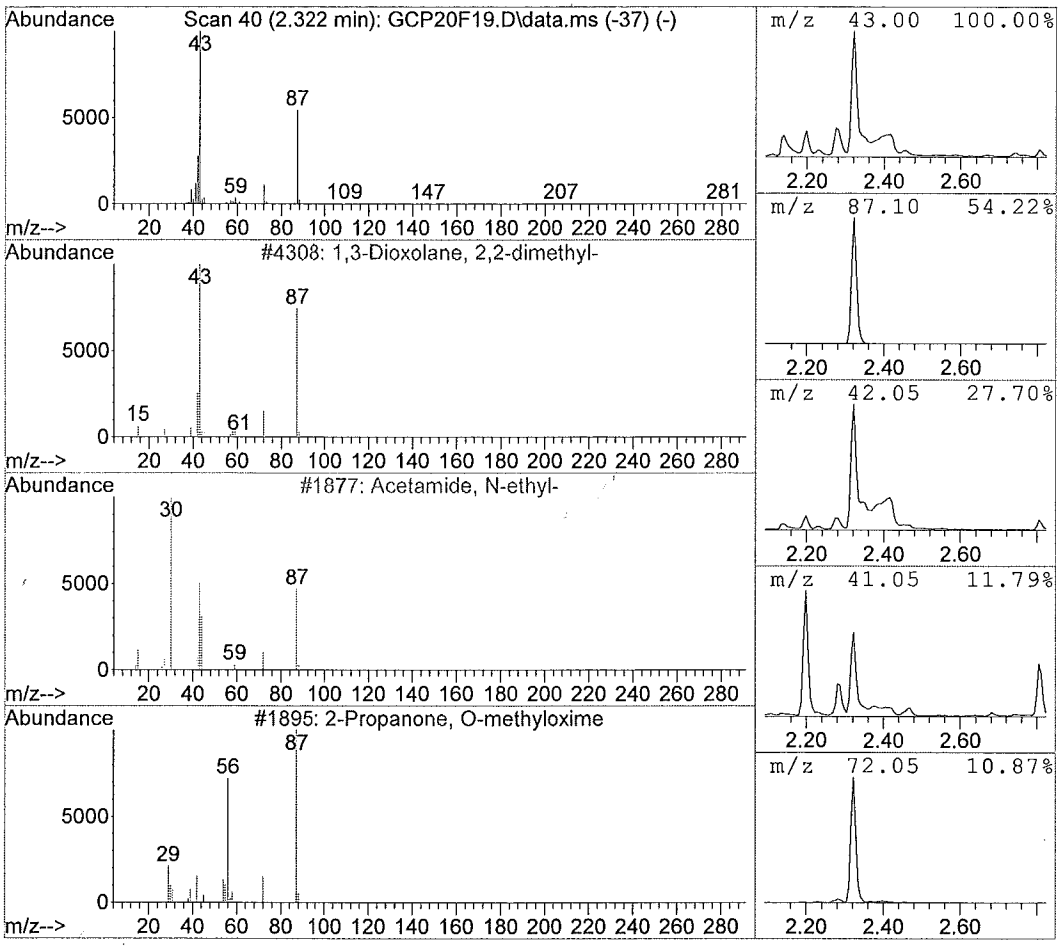
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP20F19.D Vial: 17
Acq On : 07/10/2015 20:53 Operator: TJM
Sample : 1515542019 F9M38 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
2.32	18.70 ug/ml	2376190	1,4-Dichlorobenzene-d4	2541715

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,3-Dioxolane, 2,2-dimethyl-	4308	002916-31-6	78.00
2	Acetamide, N-ethyl-	1877	000625-50-3	40.00
3	2-Propanone, O-methyloxime	1895	003376-35-0	37.00
4	Ethanol, 2,2'-[1,2-ethanediylbis(ox	88551	000111-21-7	25.00
5	Pentane	706	000109-66-0	9.00



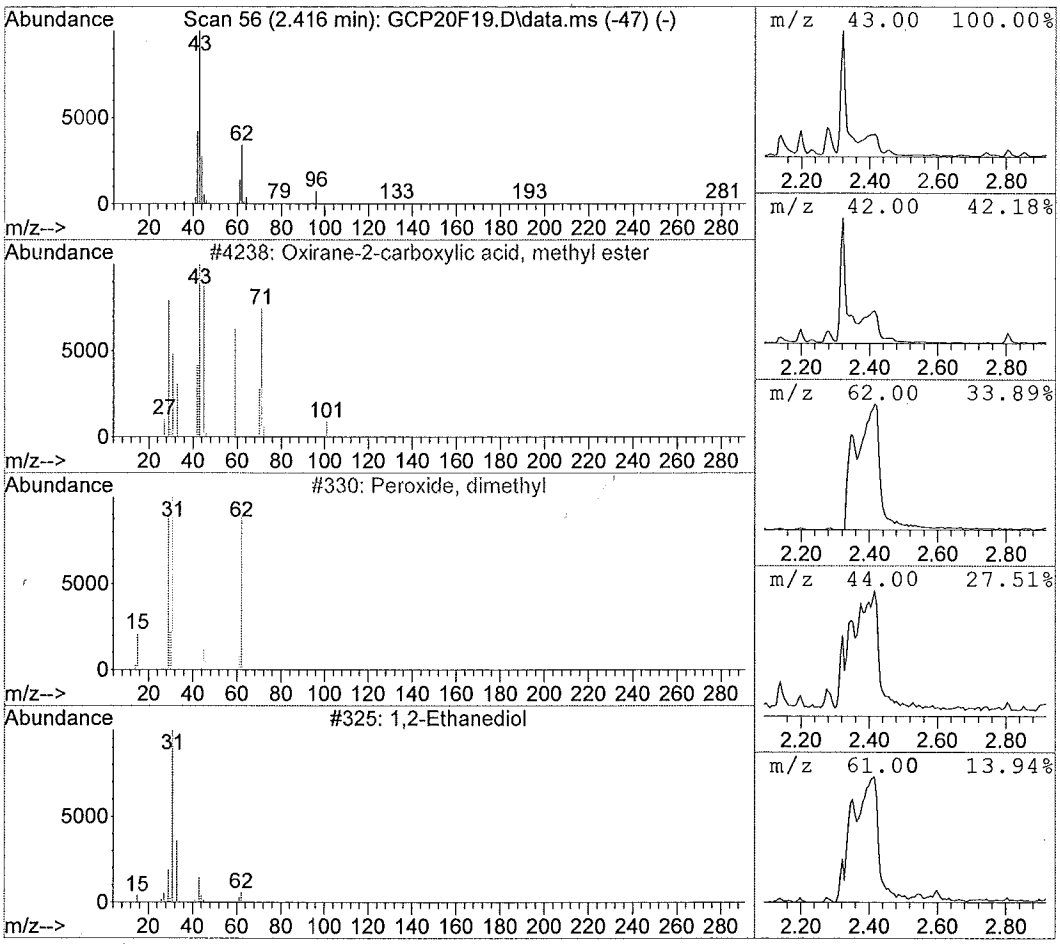
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP20F19.D Vial: 17
Acq On : 07/10/2015 20:53 Operator: TJM
Sample : 1515542019 F9M38 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
2.42	9.80 ug/ml	1245229	1,4-Dichlorobenzene-d4	2541715

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Oxirane-2-carboxylic acid, methyl e	4238	004538-50-5	9.00
2	Peroxide, dimethyl	330	000690-02-8	9.00
3	1,2-Ethanediol	325	000107-21-1	7.00
4	Ethanethiol	333	000075-08-1	5.00
5	Ethene, chloro-	323	000075-01-4	4.00



Library Search Compound Report

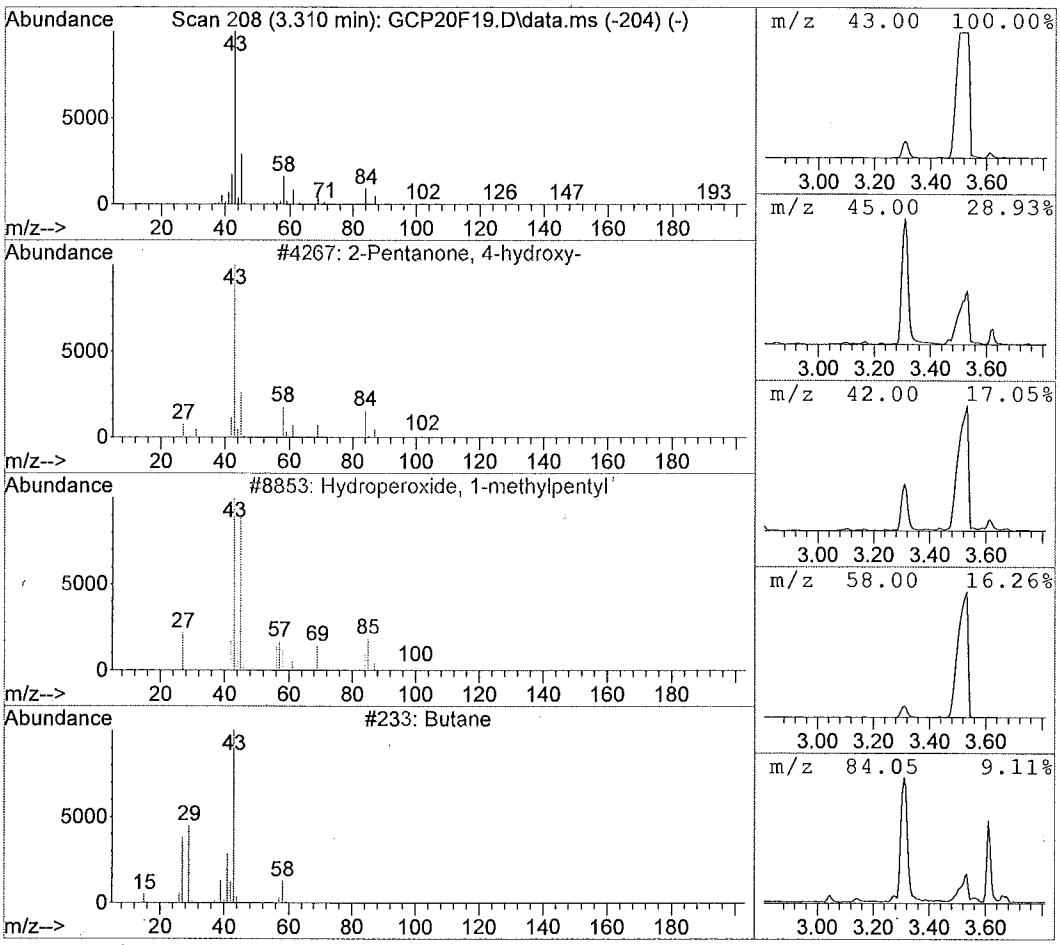
Data File : R:\G\2015\JUL15\10JUL15\GCP20F19.D
Acq On : 07/10/2015 20:53
Sample : 1515542019 F9M38
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 17
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
3.31	27.97 ug/ml	3554791	1,4-Dichlorobenzene-d4	2541715

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	56.00
2	Hydroperoxide, 1-methylpentyl	8853	024254-55-5	33.00
3	Butane	233	000106-97-8	9.00
4	Isopropyl acetate	4253	000108-21-4	9.00
5	2,3-Epoxybutane	677	003266-23-7	9.00



Library Search Compound Report

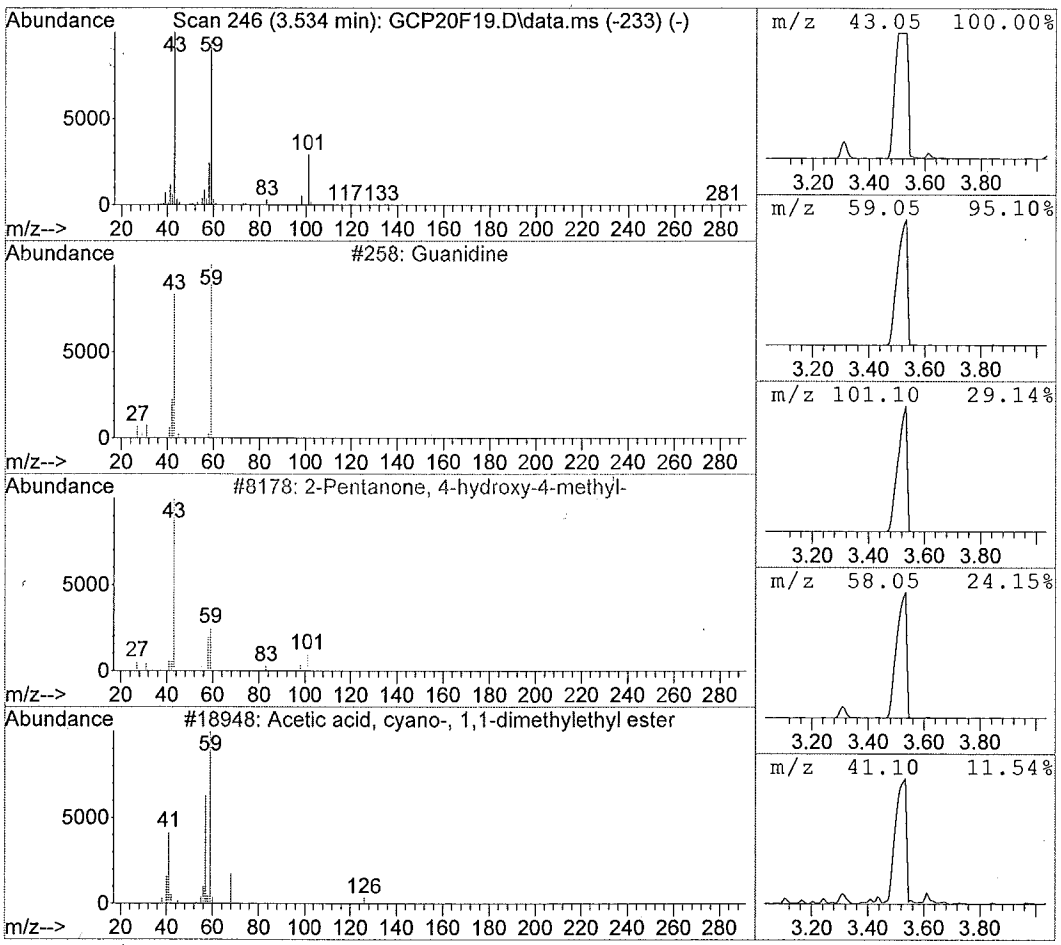
Data File : R:\G\2015\JUL15\10JUL15\GCP20F19.D
Acq On : 07/10/2015 20:53
Sample : 1515542019 F9M38
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 17
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
3.53	577.34 ug/ml	73371814	1,4-Dichlorobenzene-d4	2541715

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Guanidine	258	000113-00-8	52.00
2	2-Pentanone, 4-hydroxy-4-methyl-	8178	000123-42-2	50.00
3	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
4	Acetone	213	000067-64-1	9.00
5	Butane, 1-ethoxy-	4425	000628-81-9	9.00



Library Search Compound Report

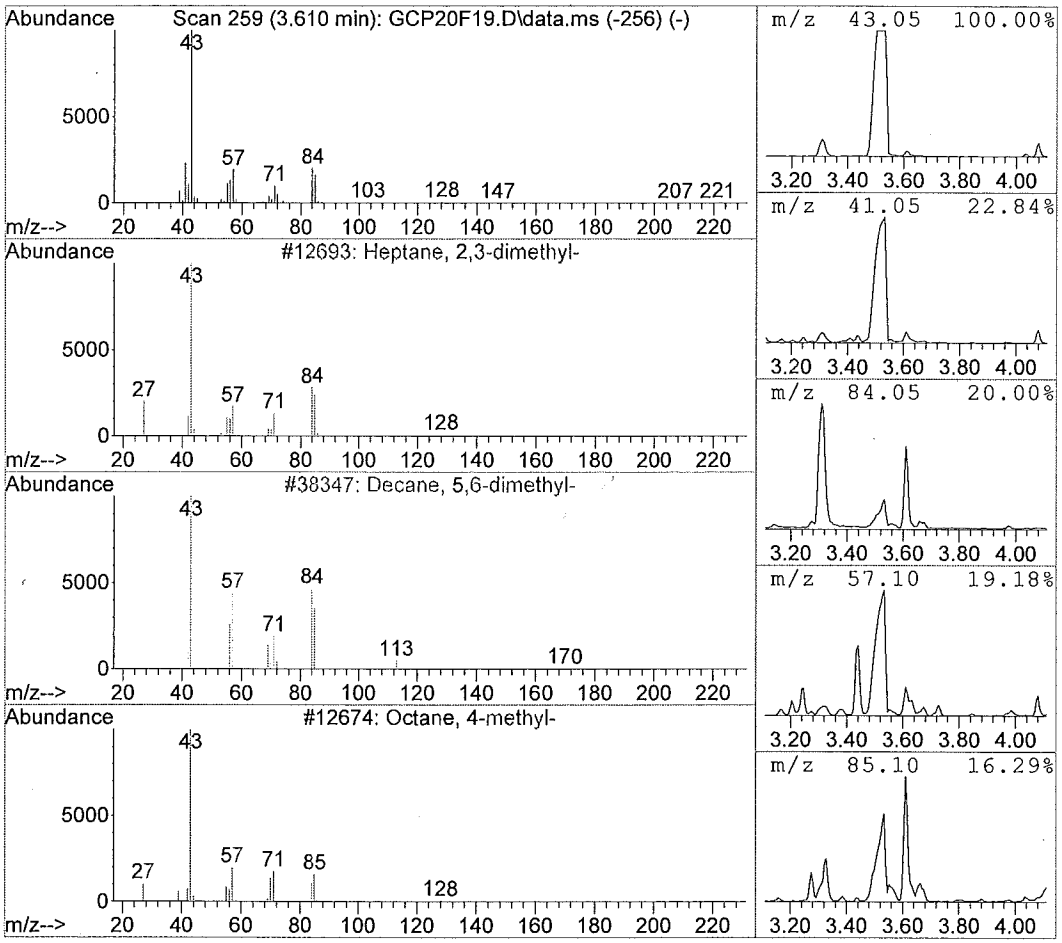
Data File : R:\G\2015\JUL15\10JUL15\GCP20F19.D Vial: 17
Acq On : 07/10/2015 20:53 Operator: TJM
Sample : 1515542019 F9M38 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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
3.61	8.83 ug/ml	1122052	1,4-Dichlorobenzene-d4	2541715

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12693	003074-71-3	83.00
2	Decane, 5,6-dimethyl-	38347	001636-43-7	72.00
3	Octane, 4-methyl-	12674	002216-34-4	64.00
4	Hexane, 3-ethyl-	7622	000619-99-8	59.00
5	Hexane, 3-ethyl-2-methyl-	12726	016789-46-1	53.00

BA



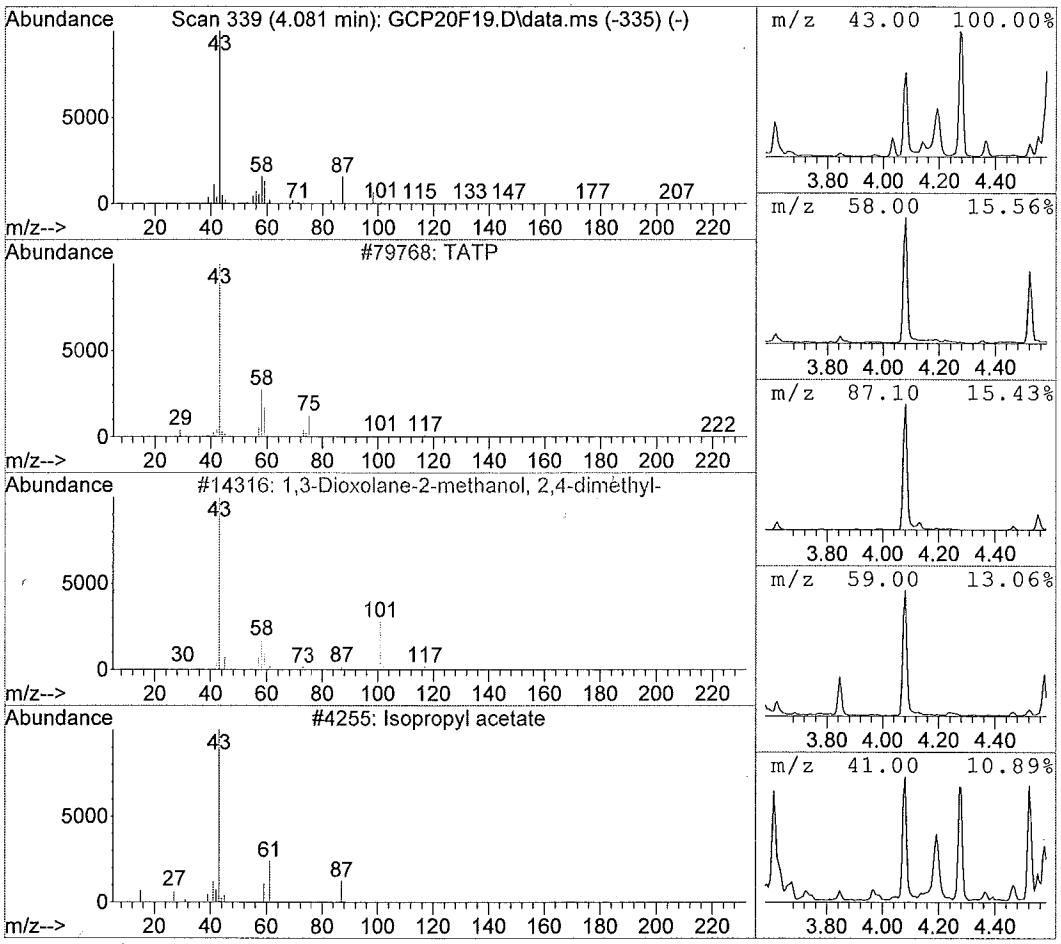
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP20F19.D Vial: 17
Acq On : 07/10/2015 20:53 Operator: TJM
Sample : 1515542019 F9M38 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
4.08	13.72 ug/ml	1743412	1,4-Dichlorobenzene-d4	2541715

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	TATP	79768	017088-37-8	50.00
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	1,1-Ethanediol, diacetate	21816	000542-10-9	17.00
5	Acetaldehyde, O-ethyloxime-	1897	1000288-34-6	9.00



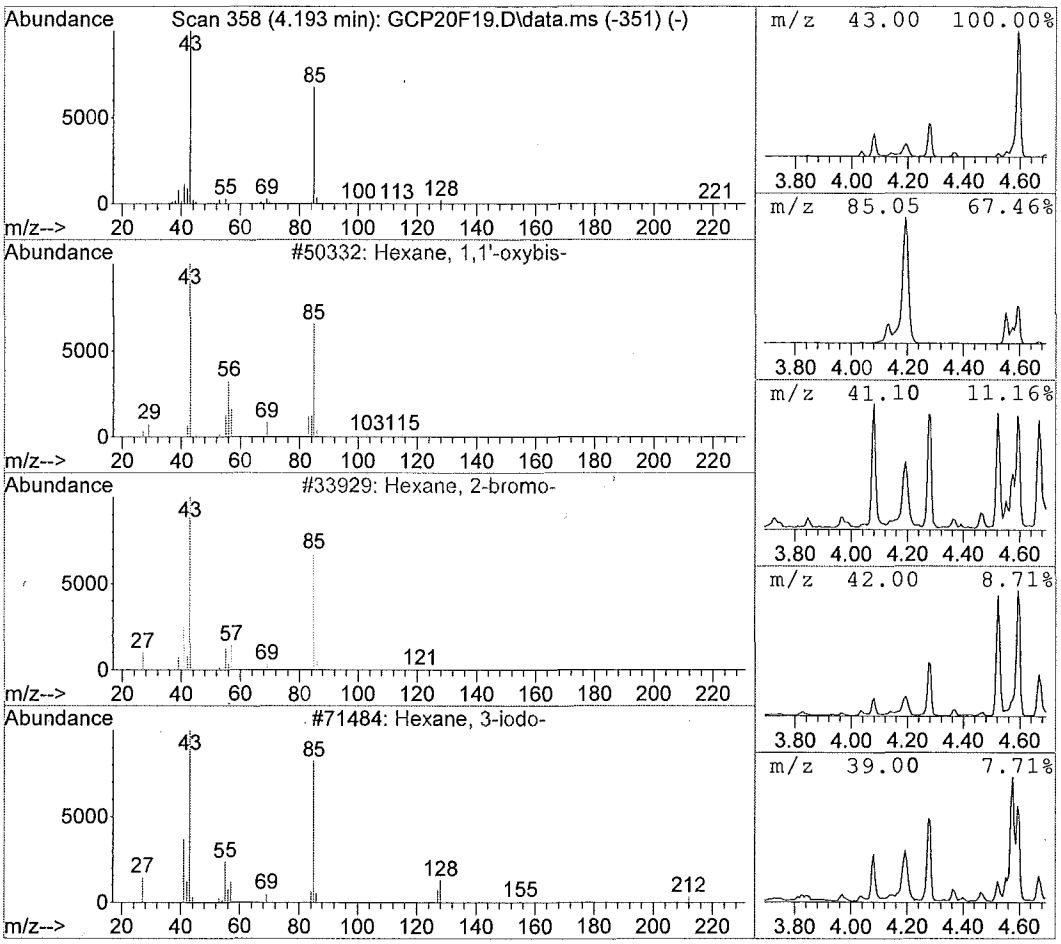
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP20F19.D Vial: 17
Acq On : 07/10/2015 20:53 Operator: TJM
Sample : 1515542019 F9M38 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
4.19	13.09 ug/ml	1663812	1,4-Dichlorobenzene-d4	2541715

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 1,1'-oxybis-	50332	000112-58-3	40.00
2	Hexane, 2-bromo-	33929	003377-86-4	40.00
3	Hexane, 3-iodo-	71484	031294-91-4	36.00
4	2-Pyrrolidinone	1541	000616-45-5	25.00
5	p-Dioxin, 2,3-dihydro-2,5,6-trimeth	12303	003973-27-1	22.00



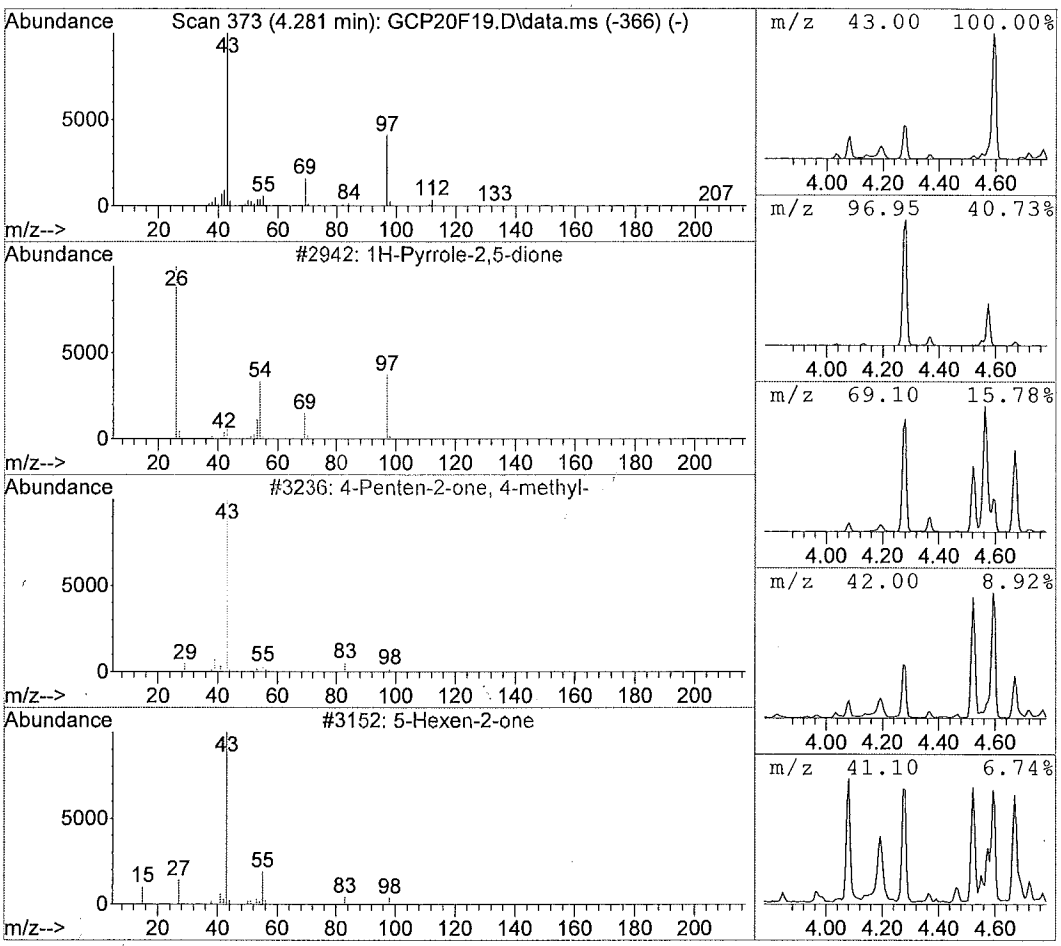
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP20F19.D Vial: 17
Acq On : 07/10/2015 20:53 Operator: TJM
Sample : 1515542019 F9M38 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	21.93 ug/ml	2786988	1,4-Dichlorobenzene-d4	2541715

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



Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP20F19.D
Acq On : 07/10/2015 20:53
Sample : 1515542019 F9M38
Misc : . SOIL SOM
MS Integration Params: rteint.p

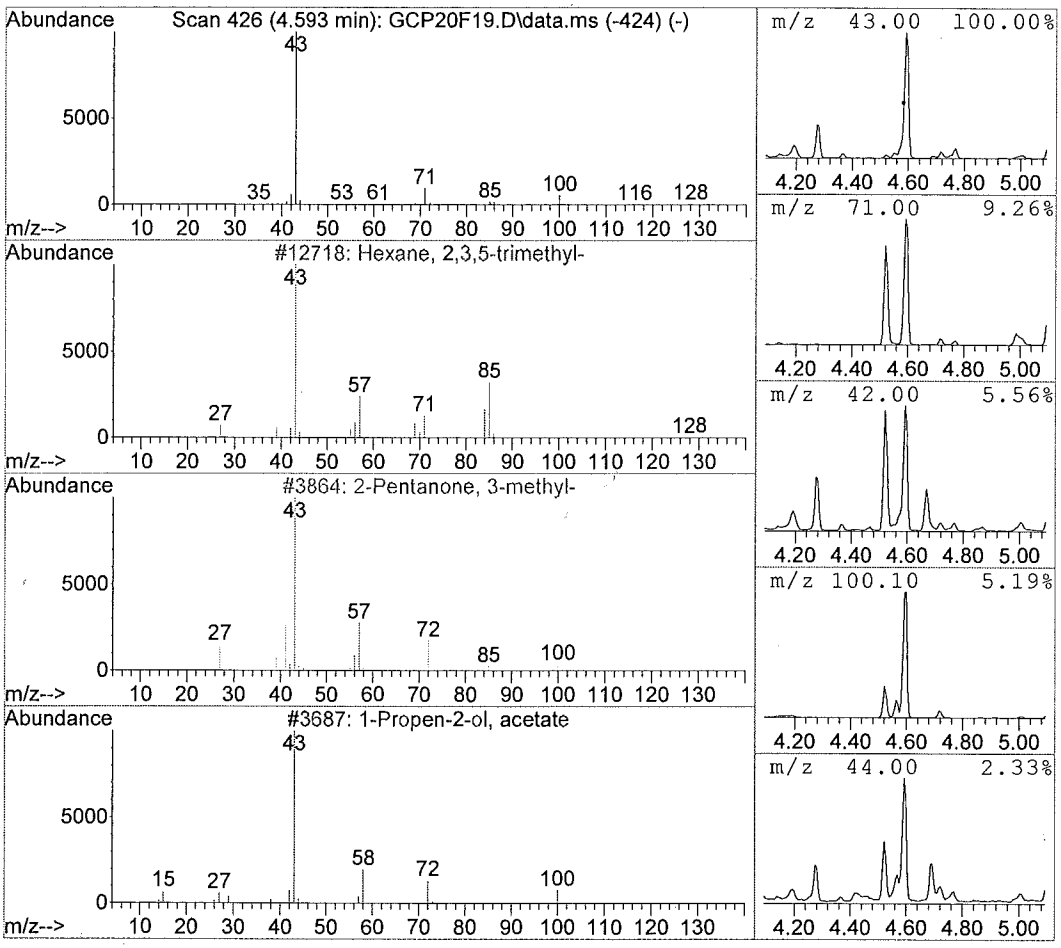
Vial: 17
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

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	49.32 ug/ml	6267794	1,4-Dichlorobenzene-d4	2541715

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	7.00
2	2-Pentanone, 3-methyl-	3864	000565-61-7	5.00
3	1-Propen-2-ol, acetate	3687	000108-22-5	5.00
4	2,3-Pentanedione	3673	000600-14-6	5.00
5	Heptane	3970	000142-82-5	5.00

BA



Library Search Compound Report

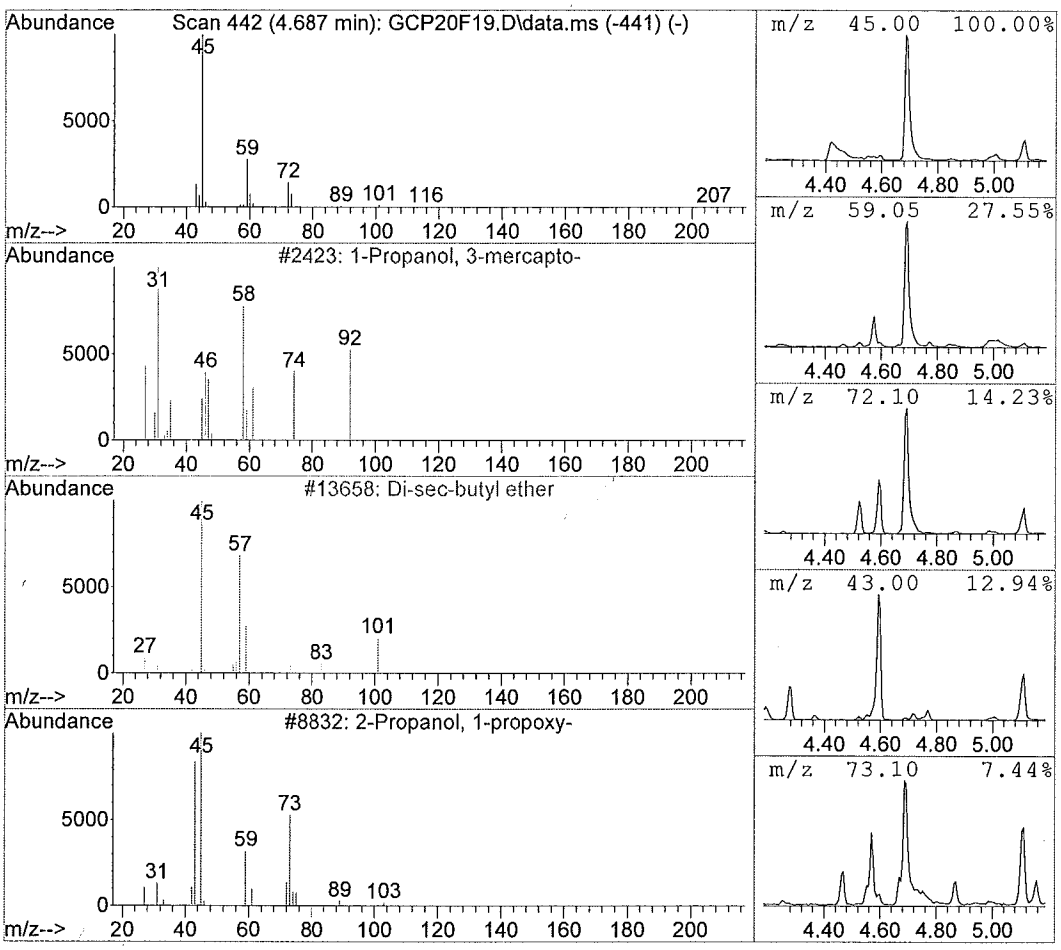
Data File : R:\G\2015\JUL15\10JUL15\GCP20F19.D
Acq On : 07/10/2015 20:53
Sample : 1515542019 F9M38
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 17
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	8.75 ug/ml	1112046	1,4-Dichlorobenzene-d4	2541715

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Propanol, 3-mercapto-	2423	019721-22-3	9.00
2	Di-sec-butyl ether	13658	006863-58-7	9.00
3	2-Propanol, 1-propoxy-	8832	001569-01-3	9.00
4	Ethanol, 2-(2-methoxyethoxy)-	9259	000111-77-3	9.00
5	Hydrazine, ethyl-	275	000624-80-6	9.00



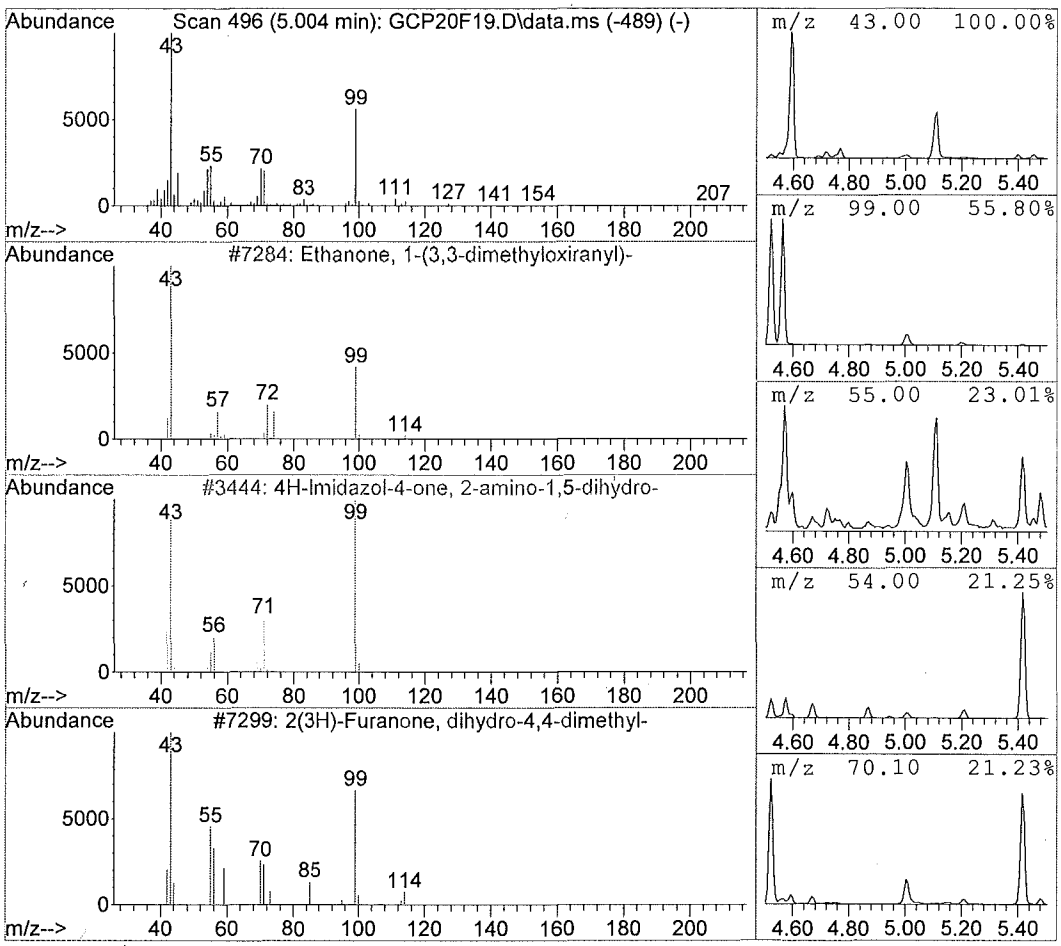
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP20F19.D Vial: 17
Acq On : 07/10/2015 20:53 Operator: TJM
Sample : 1515542019 F9M38 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
5.00	6.86 ug/ml	871871	1,4-Dichlorobenzene-d4	2541715

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethanone, 1-(3,3-dimethyloxiranyl)-	7284	004478-63-1	38.00
2	4H-Imidazol-4-one, 2-amino-1,5-dihy	3444	000503-86-6	35.00
3	2(3H)-Furanone, dihydro-4,4-dimethy	7299	013861-97-7	33.00
4	2H-Pyran-2-one, 6-hexyltetrahydro-	48500	000710-04-3	32.00
5	3-Pentenoic acid, 4-methyl-	7227	000504-85-8	32.00



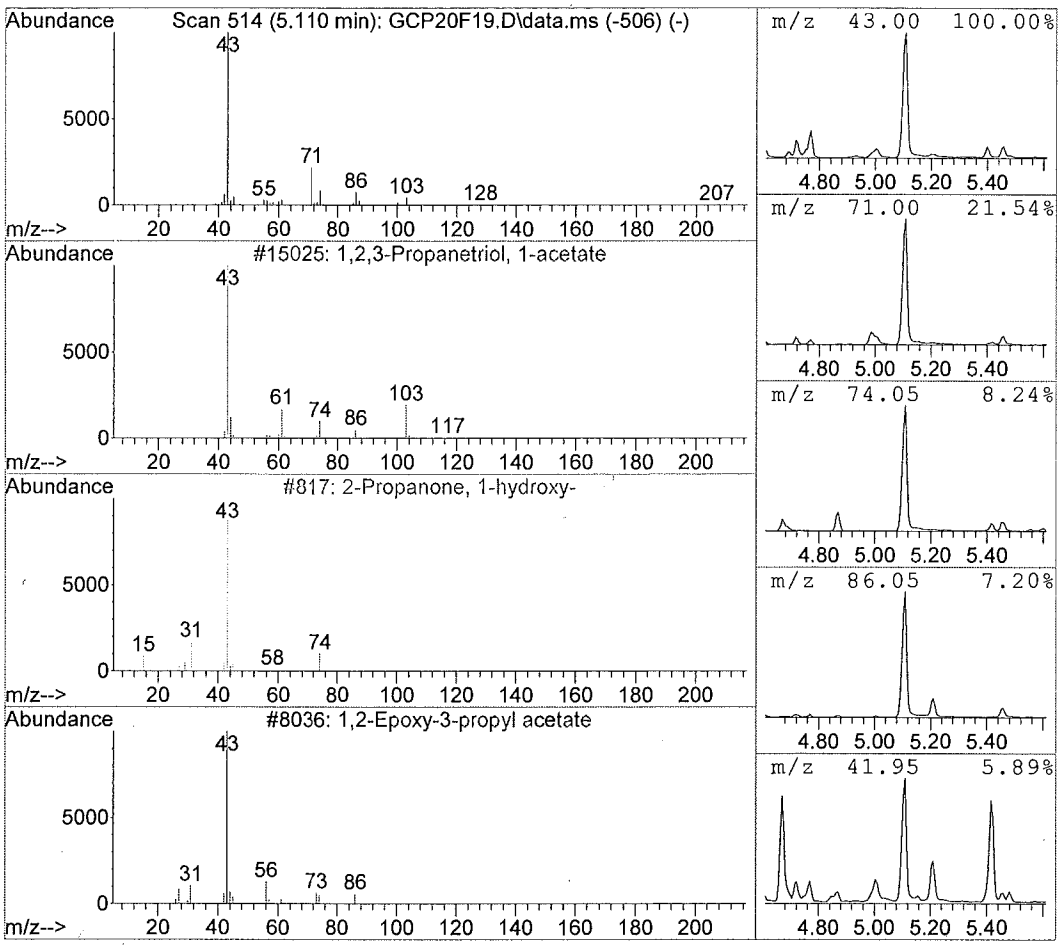
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP20F19.D Vial: 17
Acq On : 07/10/2015 20:53 Operator: TJM
Sample : 1515542019 F9M38 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
5.11	29.90 ug/ml	3799967	1,4-Dichlorobenzene-d4	2541715

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	1,2-Epoxy-3-propyl acetate	8036	006387-89-9	9.00
4	2-Butanol, 3-methyl-, acetate	13487	005343-96-4	9.00
5	Thioacetic acid	914	000507-09-5	9.00



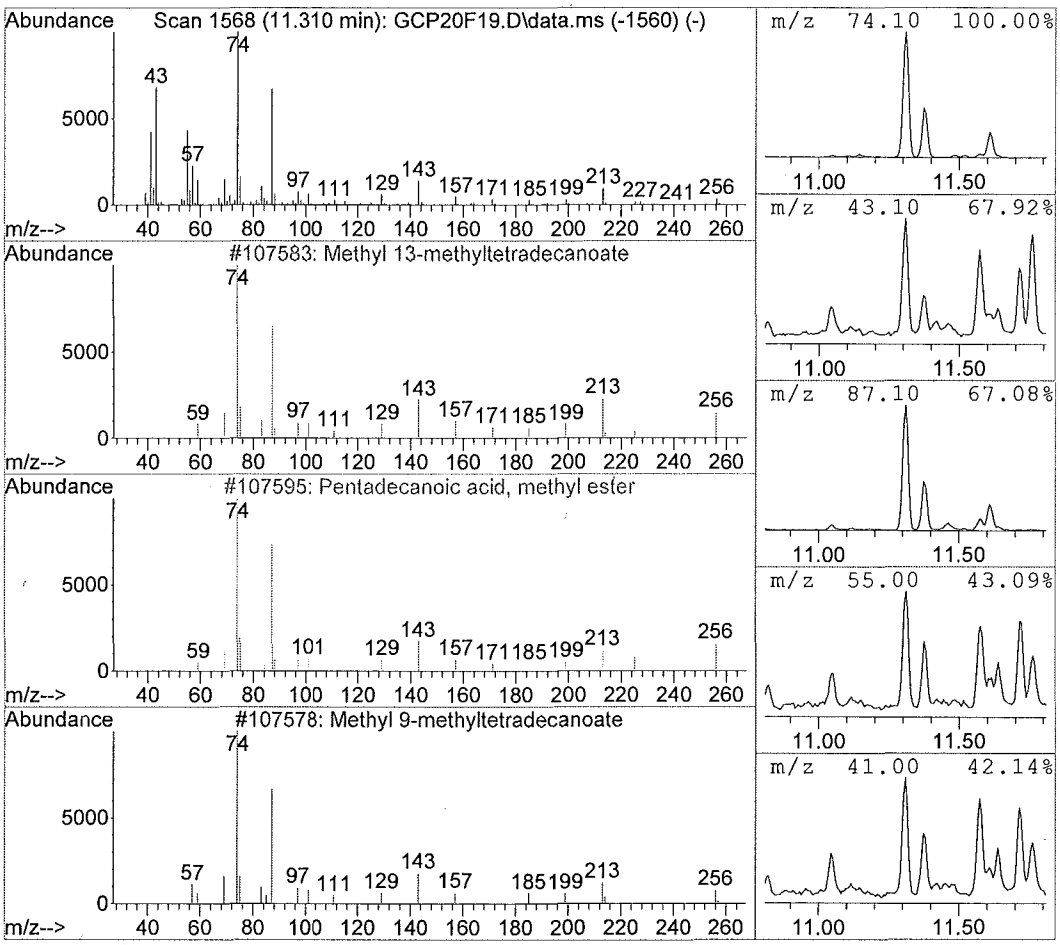
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP20F19.D Vial: 17
Acq On : 07/10/2015 20:53 Operator: TJM
Sample : 1515542019 F9M38 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	6.01 ug/ml	920295	Phenanthrene-d10	3062108

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Methyl 13-methyltetradecanoate	107583	1000336-31-4	97.00
2	Pentadecanoic acid, methyl ester	107595	007132-64-1	96.00
3	Methyl 9-methyltetradecanoate	107578	213617-69-7	91.00
4	Tridecanoic acid, 12-methyl-, methy	95898	005129-58-8	90.00
5	Pentadecanoic acid, 14-methyl-, met	119423	005129-60-2	87.00



Library Search Compound Report

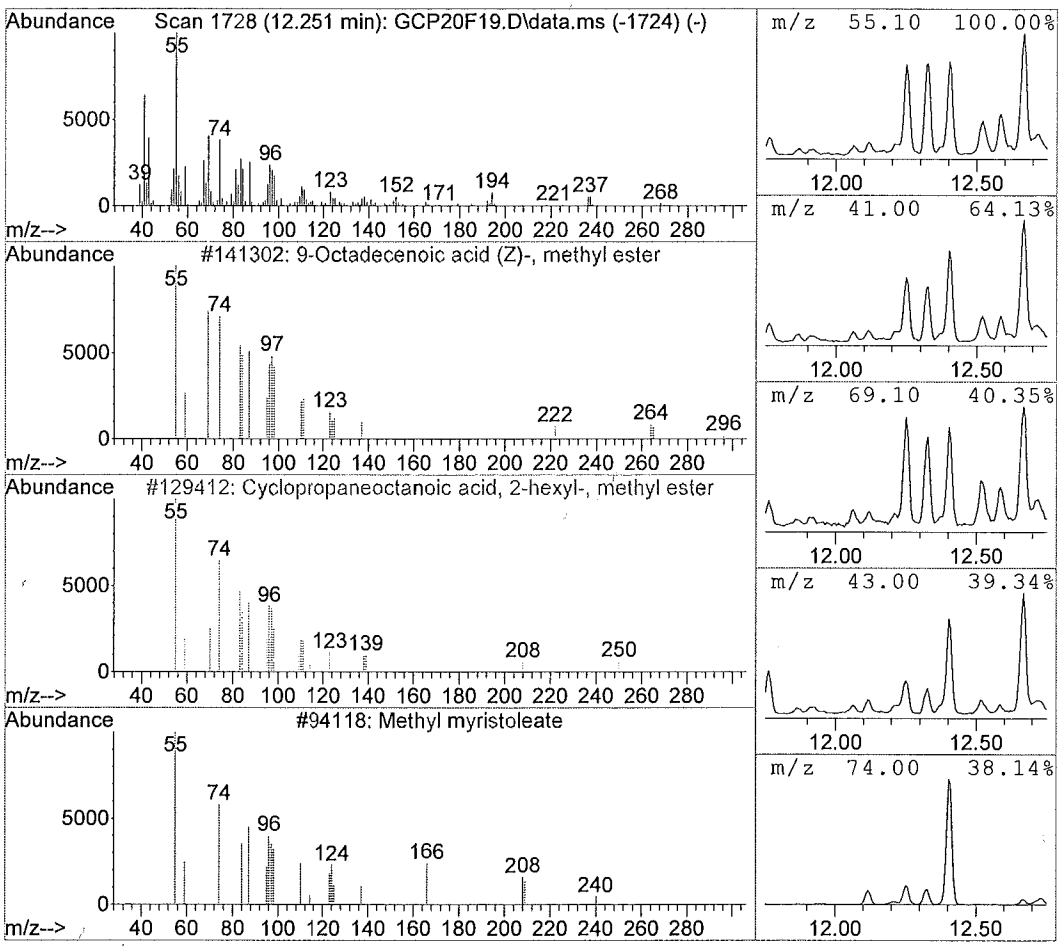
Data File : R:\G\2015\JUL15\10JUL15\GCP20F19.D
Acq On : 07/10/2015 20:53
Sample : 1515542019 F9M38
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 17
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	8.25 ug/ml	1263283	Phenanthrene-d10	3062108

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenoic acid (Z)-, methyl es	141302	000112-62-9	87.00
2	Cyclopropaneoctanoic acid, 2-hexyl-	129412	010152-61-1	83.00
3	Methyl myristoleate	94118	056219-06-8	80.00
4	9-Dodecenoic acid, methyl ester, (E	71096	055030-26-7	72.00
5	9-Hexadecenoic acid, methyl ester,	117511	001120-25-8	68.00



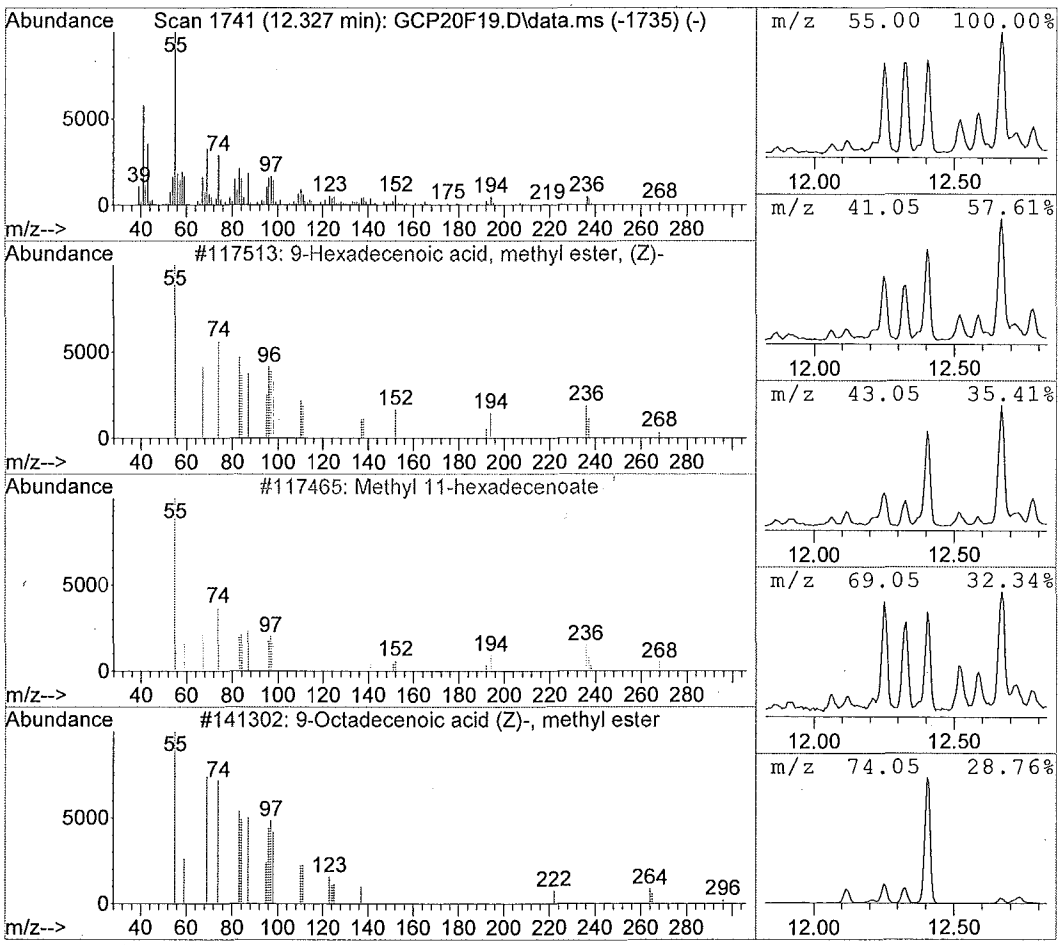
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP20F19.D Vial: 17
Acq On : 07/10/2015 20:53 Operator: TJM
Sample : 1515542019 F9M38 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
12.33	7.00 ug/ml	1071485	Phenanthrene-d10	3062108

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Hexadecenoic acid, methyl ester,	117513	001120-25-8	94.00
2	Methyl 11-hexadecenoate	117465	1000336-35-5	90.00
3	9-Octadecenoic acid (Z)-, methyl es	141302	000112-62-9	83.00
4	Cyclopropaneoctanoic acid, 2-hexyl-	129412	010152-61-1	80.00
5	Hexadecenoic acid, Z-11-	105682	002416-20-8	72.00



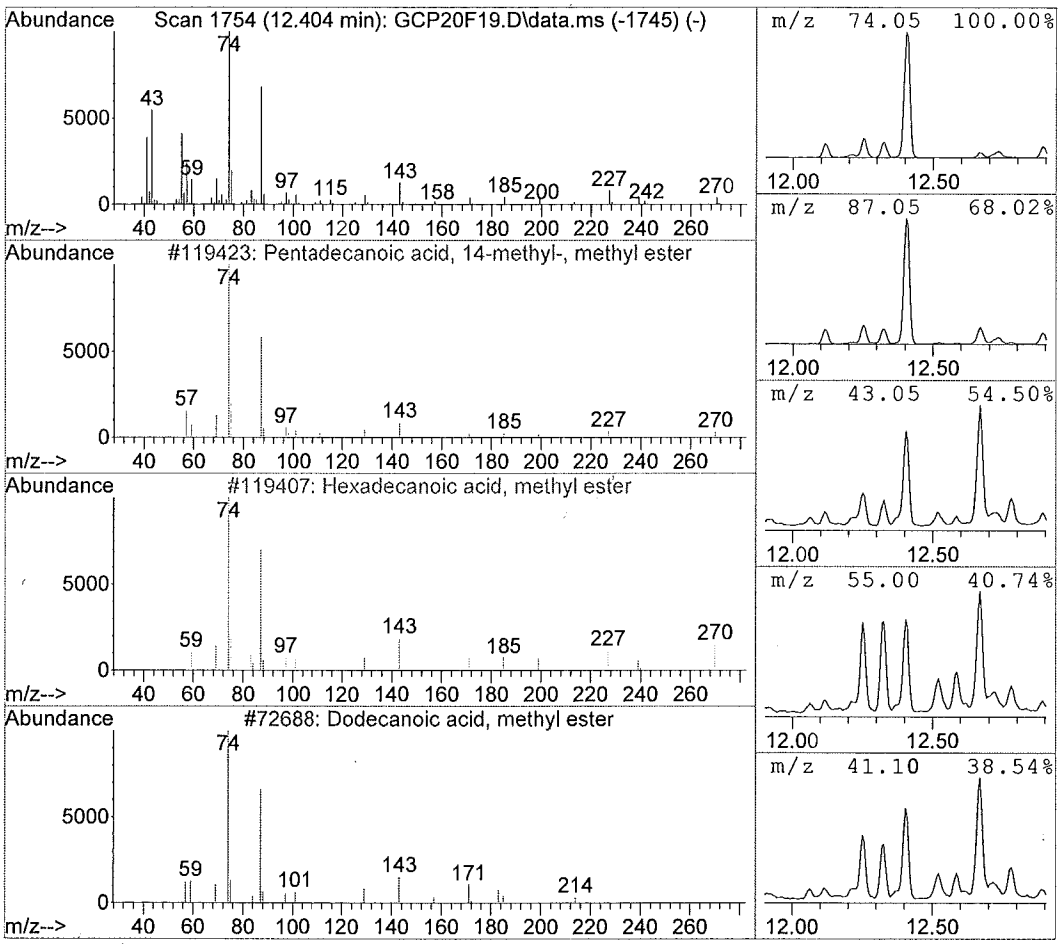
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP20F19.D Vial: 17
Acq On : 07/10/2015 20:53 Operator: TJM
Sample : 1515542019 F9M38 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	13.55 ug/ml	2073848	Phenanthrene-d10	3062108

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentadecanoic acid, 14-methyl-, met	119423	005129-60-2	98.00
2	Hexadecanoic acid, methyl ester	119407	000112-39-0	97.00
3	Dodecanoic acid, methyl ester	72688	000111-82-0	94.00
4	Tridecanoic acid, methyl ester	84485	001731-88-0	93.00
5	Pentadecanoic acid, methyl ester	107596	007132-64-1	90.00



Library Search Compound Report

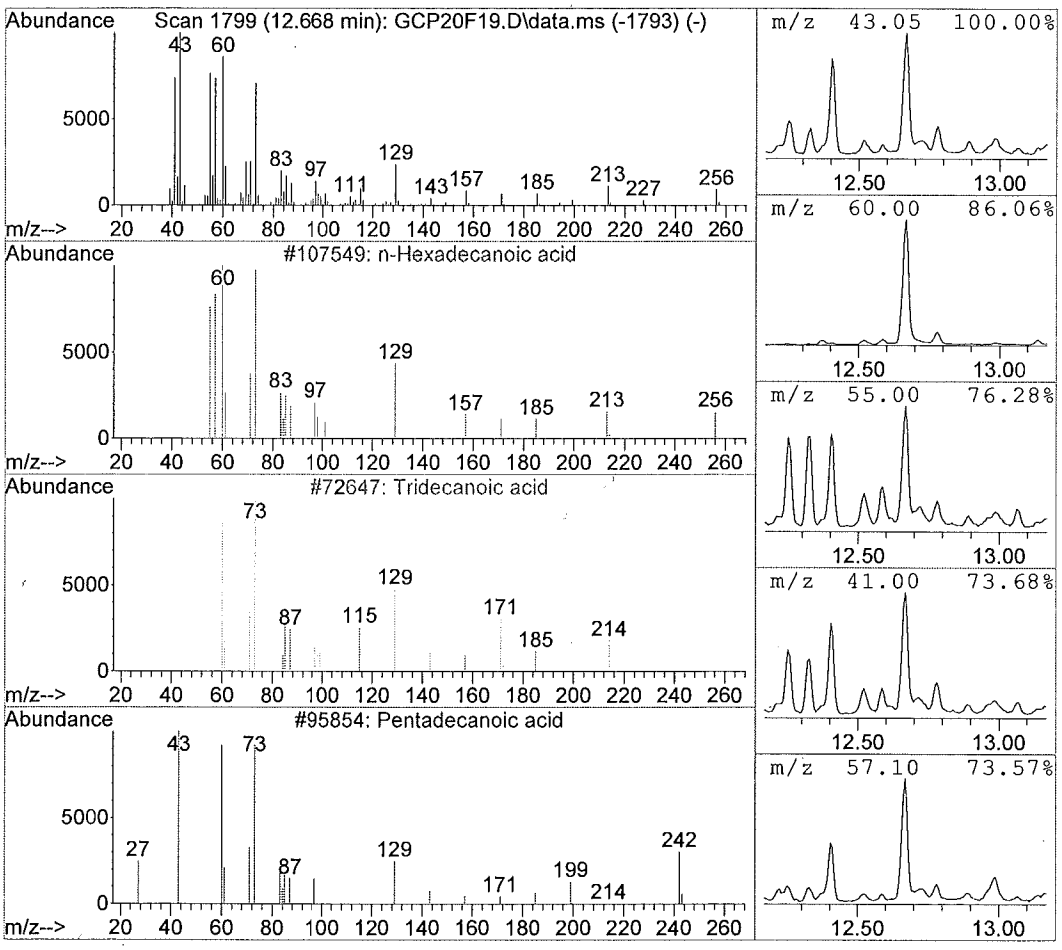
Data File : R:\G\2015\JUL15\10JUL15\GCP20F19.D
Acq On : 07/10/2015 20:53
Sample : 1515542019 F9M38
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 17
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
12.67	16.02 ug/ml	2452612	Phenanthrene-d10	3062108

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	87.00
3	Pentadecanoic acid	95854	001002-84-2	87.00
4	Tetradecanoic acid	84452	000544-63-8	78.00
5	Undecanoic acid	50051	000112-37-8	53.00



Library Search Compound Report

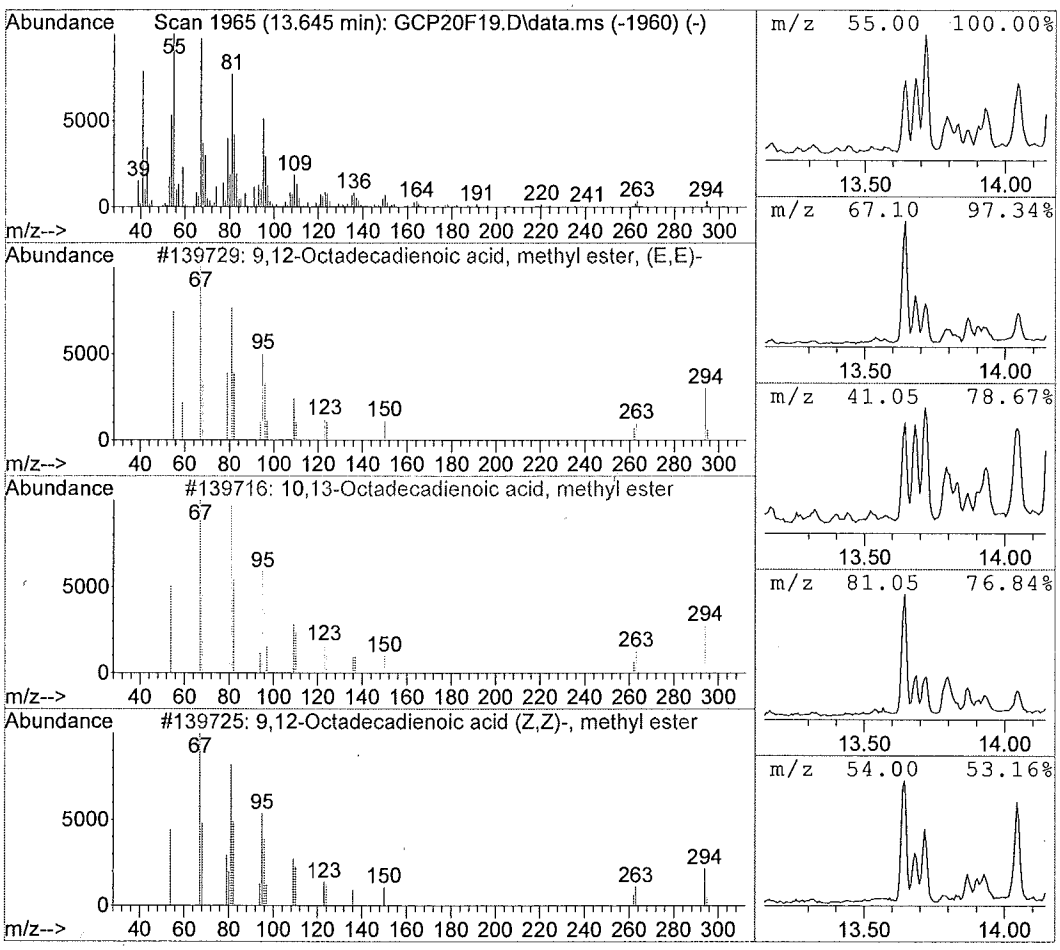
Data File : R:\G\2015\JUL15\10JUL15\GCP20F19.D
Acq On : 07/10/2015 20:53
Sample : 1515542019 F9M38
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 17
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	5.74 ug/ml	936744	Chrysene-d12	3264593

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9,12-Octadecadienoic acid, methyl e	139729	002566-97-4	99.00
2	10,13-Octadecadienoic acid, methyl	139716	056554-62-2	99.00
3	9,12-Octadecadienoic acid (Z,Z)-, m	139725	000112-63-0	99.00
4	Methyl 10-trans,12-cis-octadecadien	139709	1000336-44-2	99.00
5	8,11-Octadecadienoic acid, methyl e	139707	056599-58-7	98.00



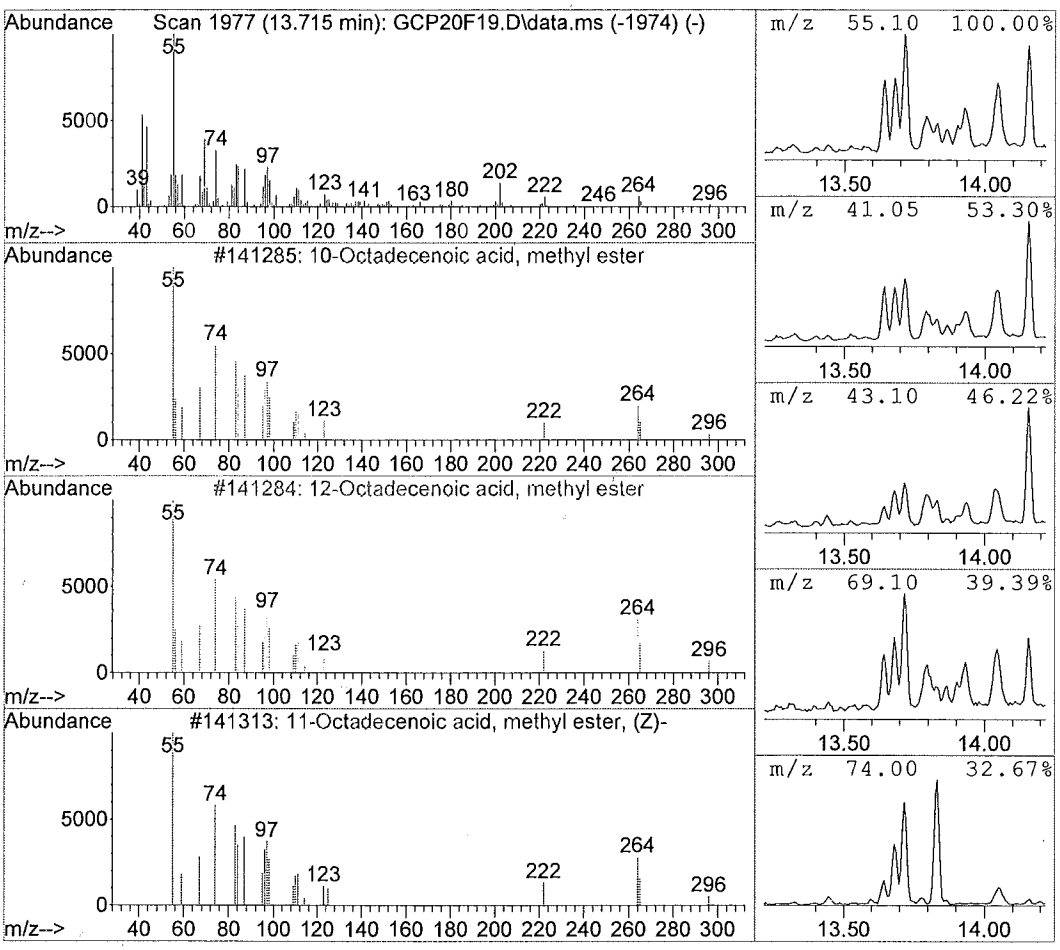
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP20F19.D Vial: 17
Acq On : 07/10/2015 20:53 Operator: TJM
Sample : 1515542019 F9M38 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	6.73 ug/ml	1099269	Chrysene-d12	3264593

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	10-Octadecenoic acid, methyl ester	141285	013481-95-3	99.00
2	12-Octadecenoic acid, methyl ester	141284	056554-46-2	99.00
3	11-Octadecenoic acid, methyl ester,	141313	001937-63-9	99.00
4	14-Octadecenoic acid, methyl ester	141287	056554-48-4	98.00
5	cis-13-Octadecenoic acid, methyl es	141299	1000333-58-3	97.00



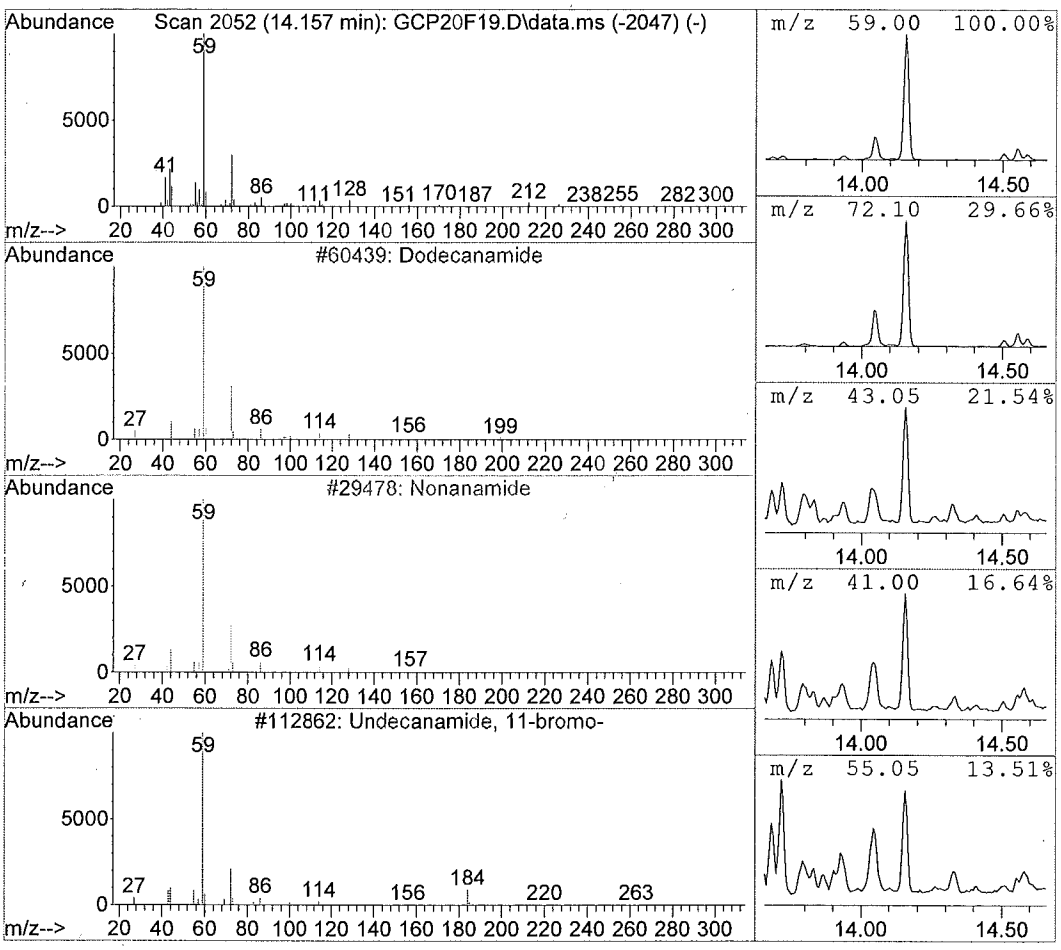
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP20F19.D Vial: 17
Acq On : 07/10/2015 20:53 Operator: TJM
Sample : 1515542019 F9M38 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
14.16	13.14 ug/ml	2144859	Chrysene-d12	3264593

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	91.00
2	Nonanamide	29478	001120-07-6	78.00
3	Undecanamide, 11-bromo-	112862	005875-26-3	78.00
4	Decanamide-	38977	002319-29-1	64.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	64.00



Library Search Compound Report

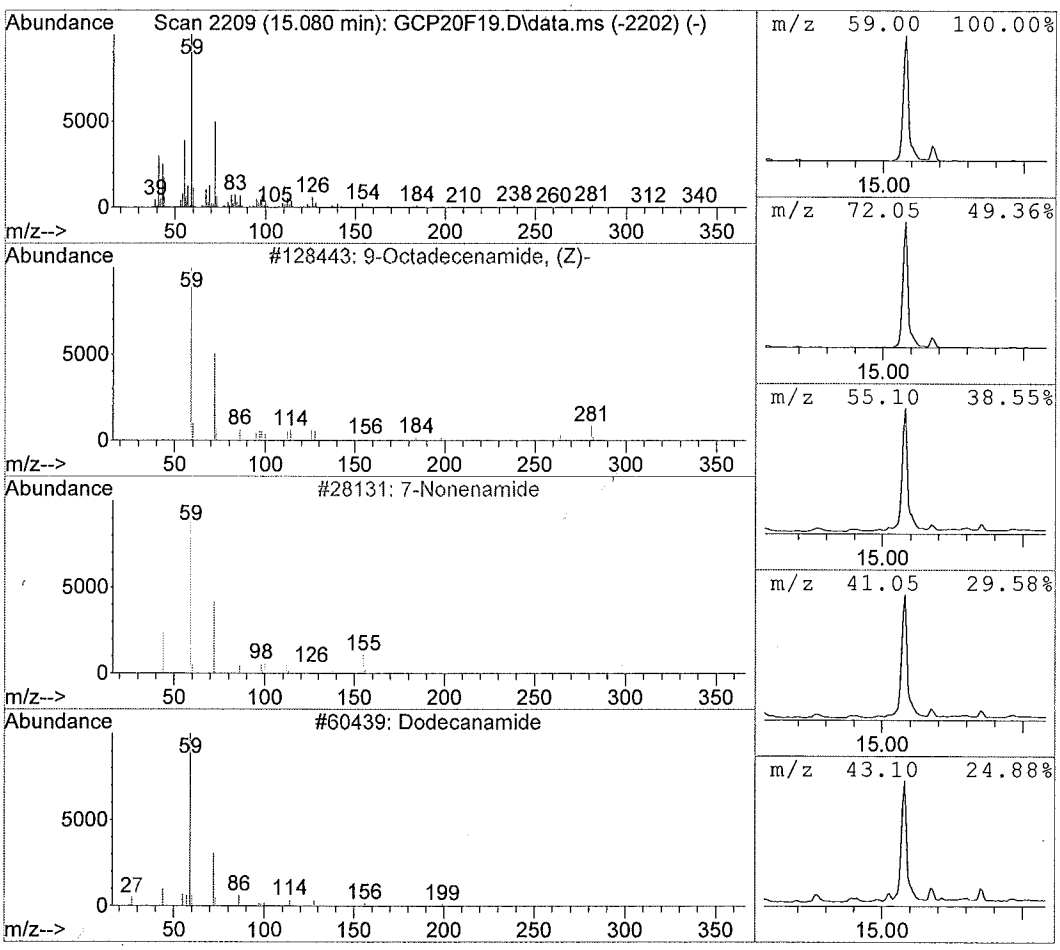
Data File : R:\G\2015\JUL15\10JUL15\GCP20F19.D
Acq On : 07/10/2015 20:53
Sample : 1515542019 F9M38
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 17
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
15.08	69.04 ug/ml	11268631	Chrysene-d12	3264593

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	Dodecanamide	60439	001120-16-7	59.00
4	Hexadecanamide	106565	000629-54-9	56.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	56.00



Library Search Compound Report

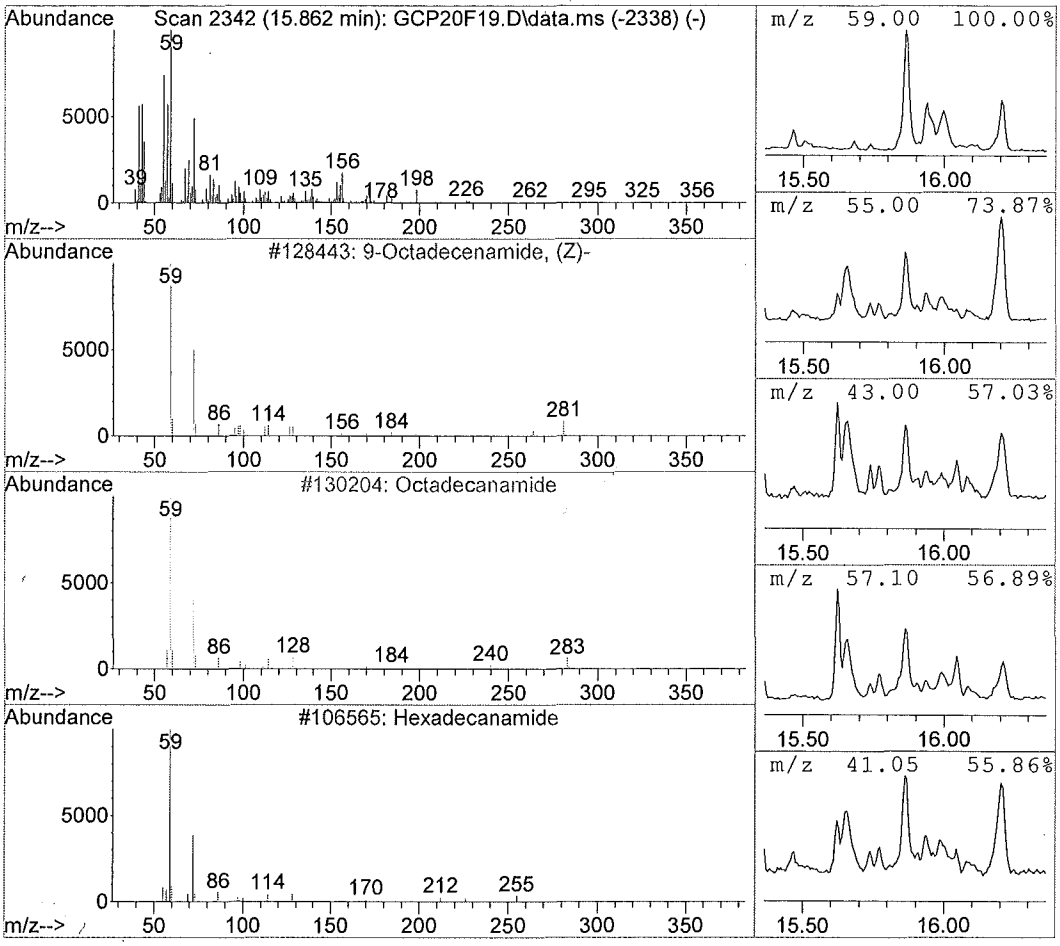
Data File : R:\G\2015\JUL15\10JUL15\GCP20F19.D
Acq On : 07/10/2015 20:53
Sample : 1515542019 F9M38
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 17
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	5.60 ug/ml	914115	Chrysene-d12	3264593

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	72.00
2	Octadecanamide	130204	000124-26-5	59.00
3	Hexadecanamide	106565	000629-54-9	59.00
4	7-Nonenamide	28131	090949-53-4	53.00
5	Decanamide-	38977	002319-29-1	53.00



Library Search Compound Report

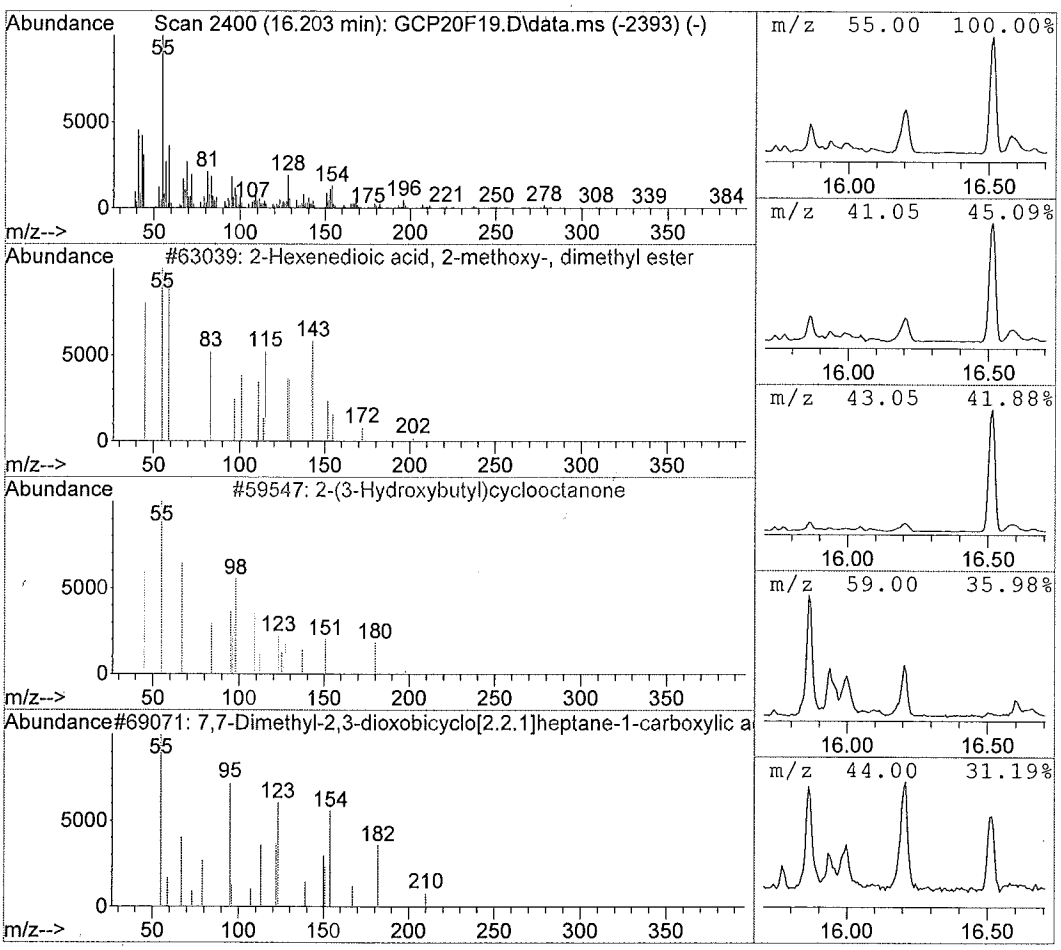
Data File : R:\G\2015\JUL15\10JUL15\GCP20F19.D
Acq On : 07/10/2015 20:53
Sample : 1515542019 F9M38
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 17
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	10.21 ug/ml	1666360	Chrysene-d12	3264593

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Hexenedioic acid, 2-methoxy-, dim	63039	056114-71-7	22.00
2	2-(3-Hydroxybutyl)cyclooctanone	59547	110288-21-6	15.00
3	7,7-Dimethyl-2,3-dioxobicyclo[2.2.1	69071	040724-68-3	15.00
4	3-Pentenoic acid, methyl ester	7256	000818-58-6	14.00
5	Cyclohexanecarboxamide	11823	001122-56-1	12.00



Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP20F19.D
Acq On : 07/10/2015 20:53
Sample : 1515542019 F9M38
Misc : . SOIL SOM
MS Integration Params: rteint.p

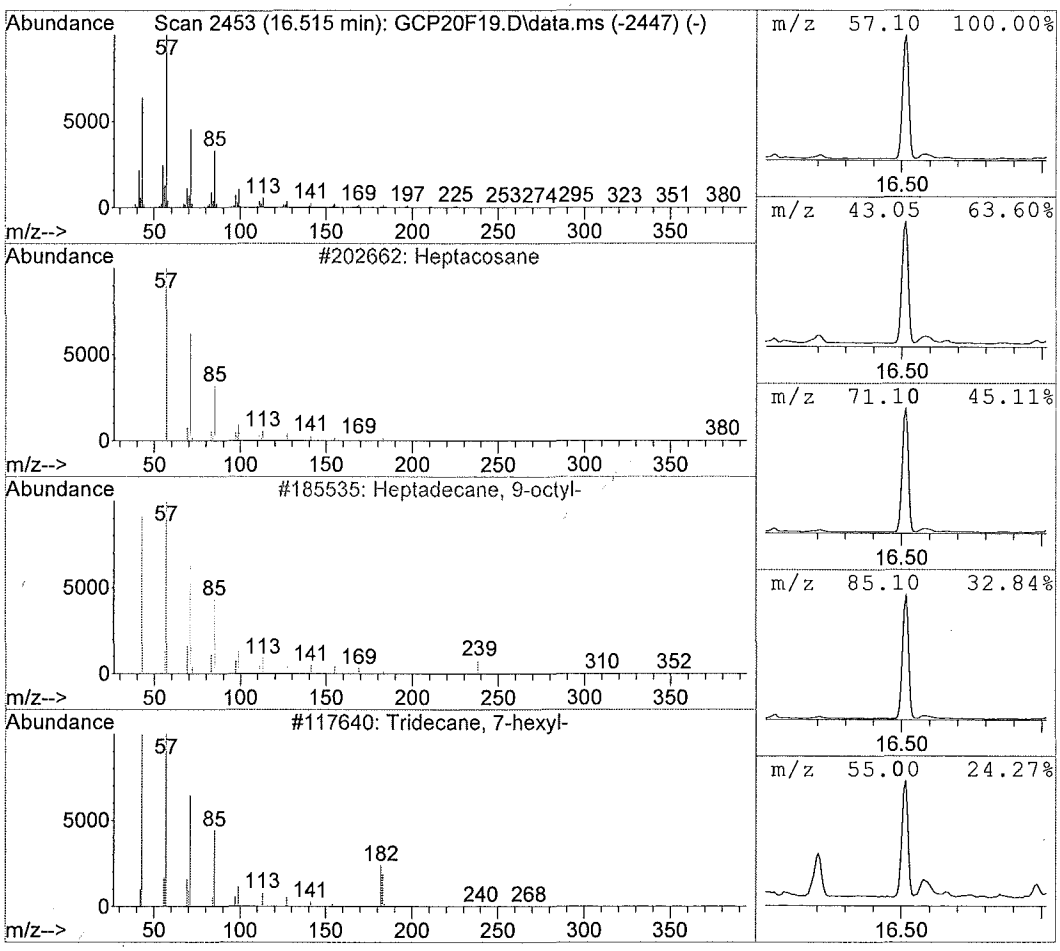
Vial: 17
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

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
16.52	43.14 ug/ml	7041059	Chrysene-d12	3264593

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptacosane	202662	000593-49-7	98.00
2	Heptadecane, 9-octyl-	185535	007225-64-1	97.00
3	Tridecane, 7-hexyl-	117640	007225-66-3	95.00
4	Dodecane, 2-methyl-6-propyl-	83051	055045-08-4	94.00
5	Heptadecane, 2,6,10,14-tetramethyl-	141441	018344-37-1	93.00

SCA



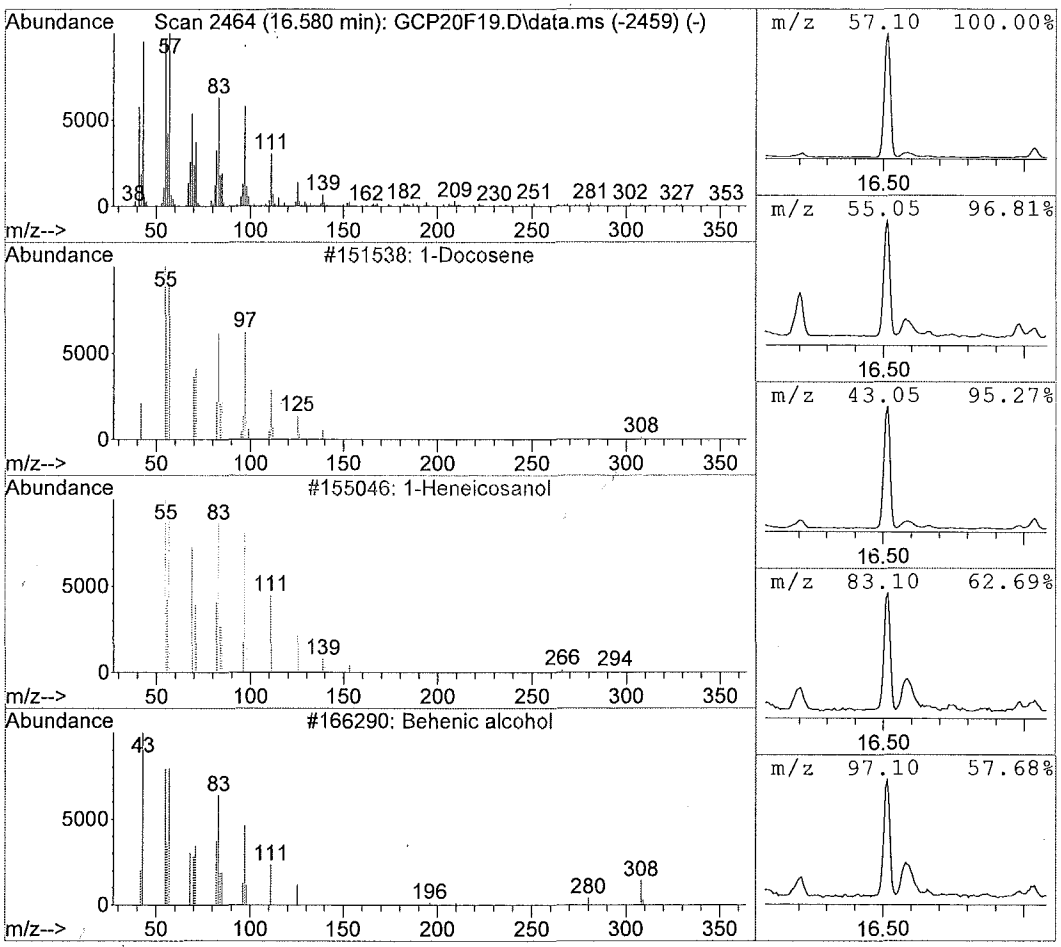
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP20F19.D Vial: 17
Acq On : 07/10/2015 20:53 Operator: TJM
Sample : 1515542019 F9M38 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
16.58	5.85 ug/ml	955693	Chrysene-d12	3264593

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Docosene	151538	001599-67-3	98.00
2	1-Heneicosanol	155046	015594-90-8	91.00
3	Behenic alcohol	166290	000661-19-8	91.00
4	Trifluoroacetoxy hexadecane	175129	006222-03-3	91.00
5	1-Octadecanol	119523	000112-92-5	91.00



Library Search Compound Report

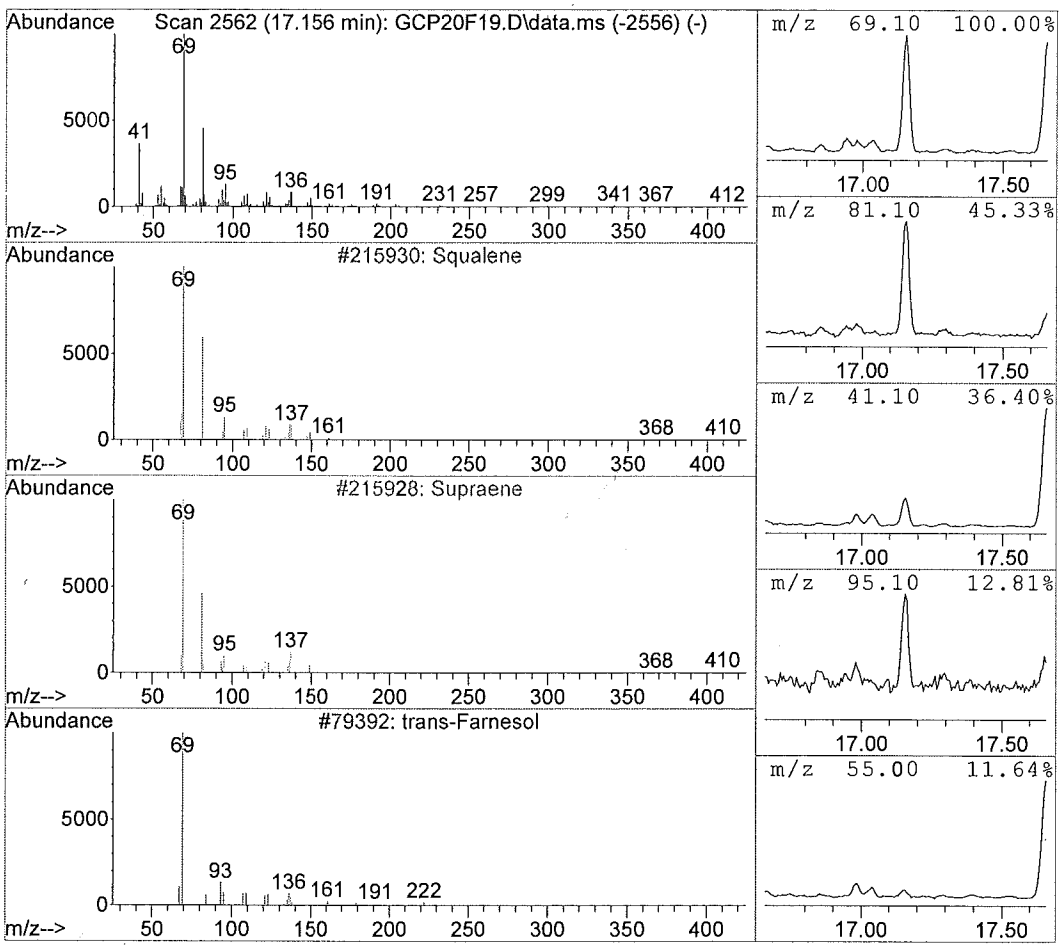
Data File : R:\G\2015\JUL15\10JUL15\GCP20F19.D
Acq On : 07/10/2015 20:53
Sample : 1515542019 F9M38
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 17
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	9.10 ug/ml	935771	Perylene-d12	2057456

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Squalene	215930	000111-02-4	91.00
2	Supraene	215928	007683-64-9	91.00
3	trans-Farnesol	79392	000106-28-5	72.00
4	4-Methyl-1,5-Heptadiene	5950	000998-94-7	53.00
5	Cyclopentane, bromo-	22935	000137-43-9	47.00



Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP20F19.D
Acq On : 07/10/2015 20:53
Sample : 1515542019 F9M38
Misc : . SOIL SOM
MS Integration Params: rteint.p

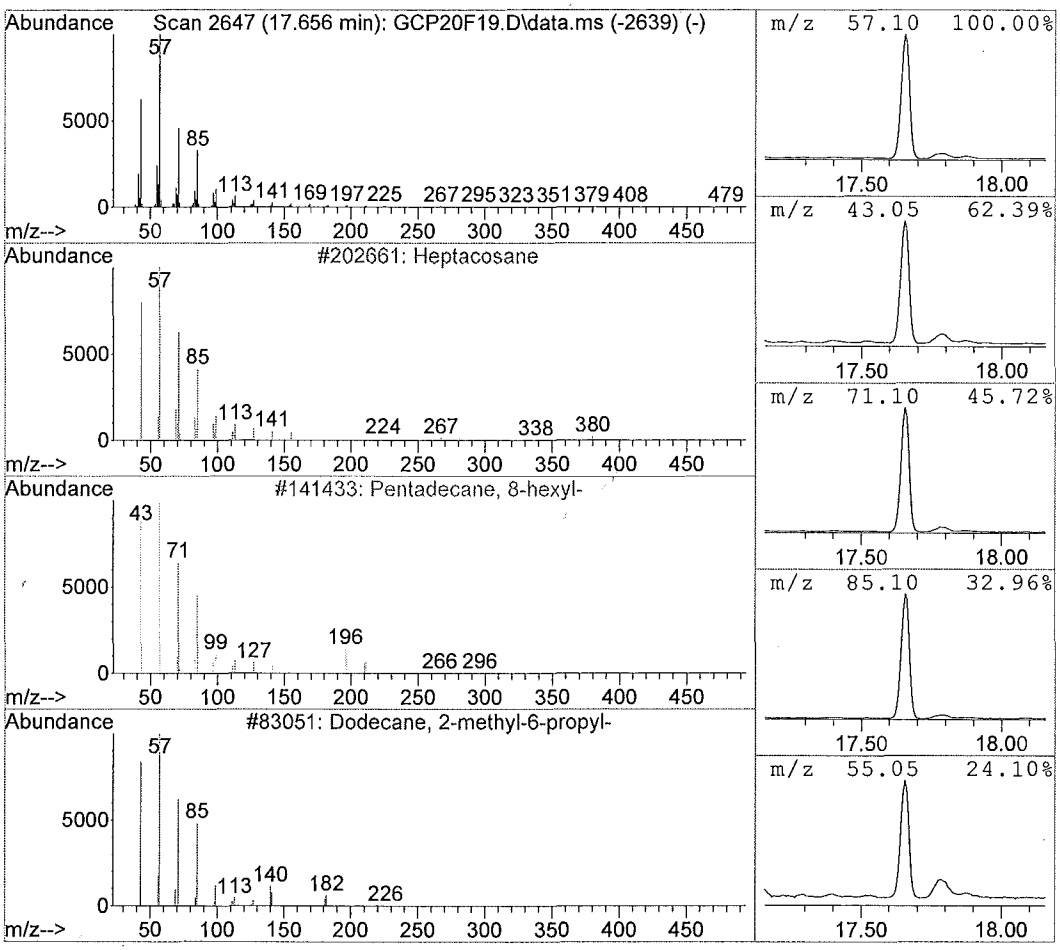
Vial: 17
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

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	94.46 ug/ml	9717278	Perylene-d12	2057456

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptacosane	202661	000593-49-7	98.00
2	Pentadecane, 8-hexyl-	141433	013475-75-7	93.00
3	Dodecane, 2-methyl-6-propyl-	83051	055045-08-4	91.00
4	Hentriacontane	223851	000630-04-6	91.00
5	Eicosane, 3-methyl-	141428	006418-46-8	87.00

SCA



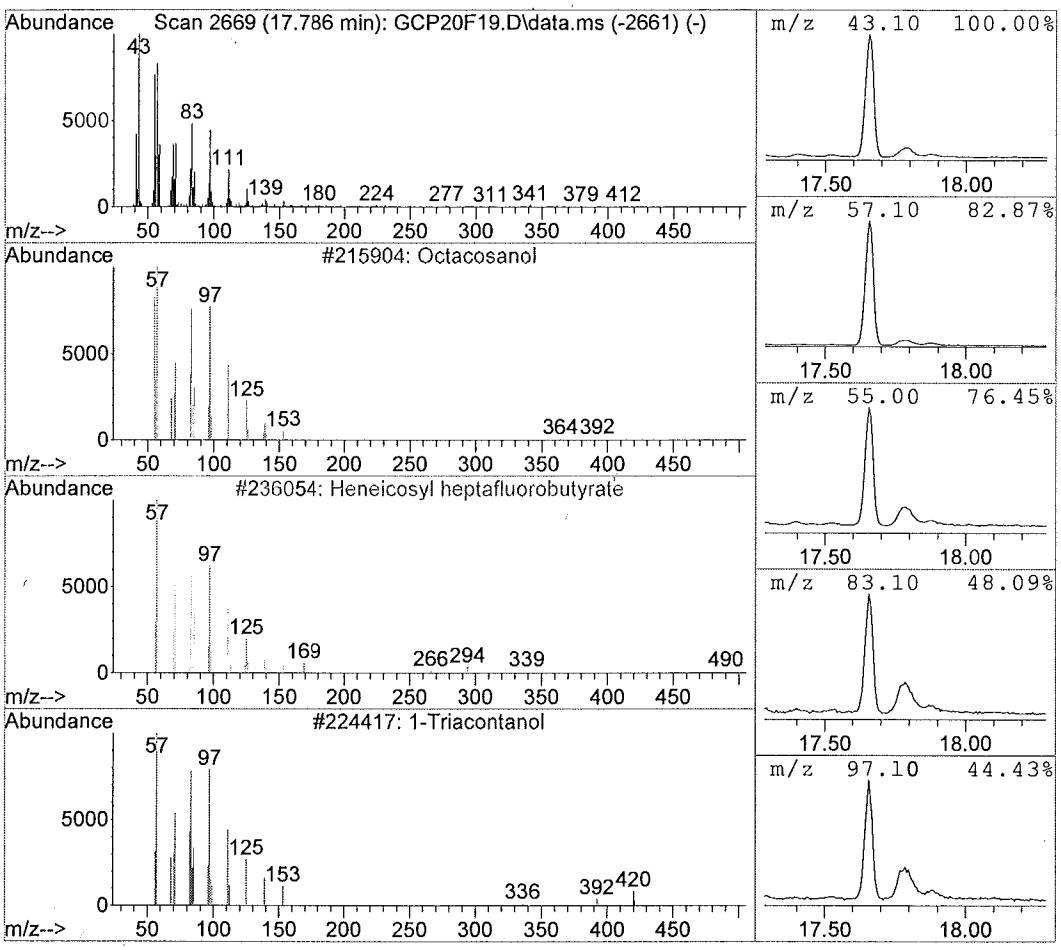
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP20F19.D Vial: 17
Acq On : 07/10/2015 20:53 Operator: TJM
Sample : 1515542019 F9M38 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
17.79	13.63 ug/ml	1402138	Perylene-d12	2057456

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octacosanol	215904	000557-61-9	90.00
2	Heneicosyl heptafluorobutyrate	236054	1000351-83-8	90.00
3	1-Triacontanol	224417	000593-50-0	87.00
4	Heptacosyl acetate	224391	1000351-78-2	87.00
5	Triacontyl acetate	232691	041755-58-2	87.00



Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP20F19.D
Acq On : 07/10/2015 20:53
Sample : 1515542019 F9M38
Misc : . SOIL SOM
MS Integration Params: rteint.p

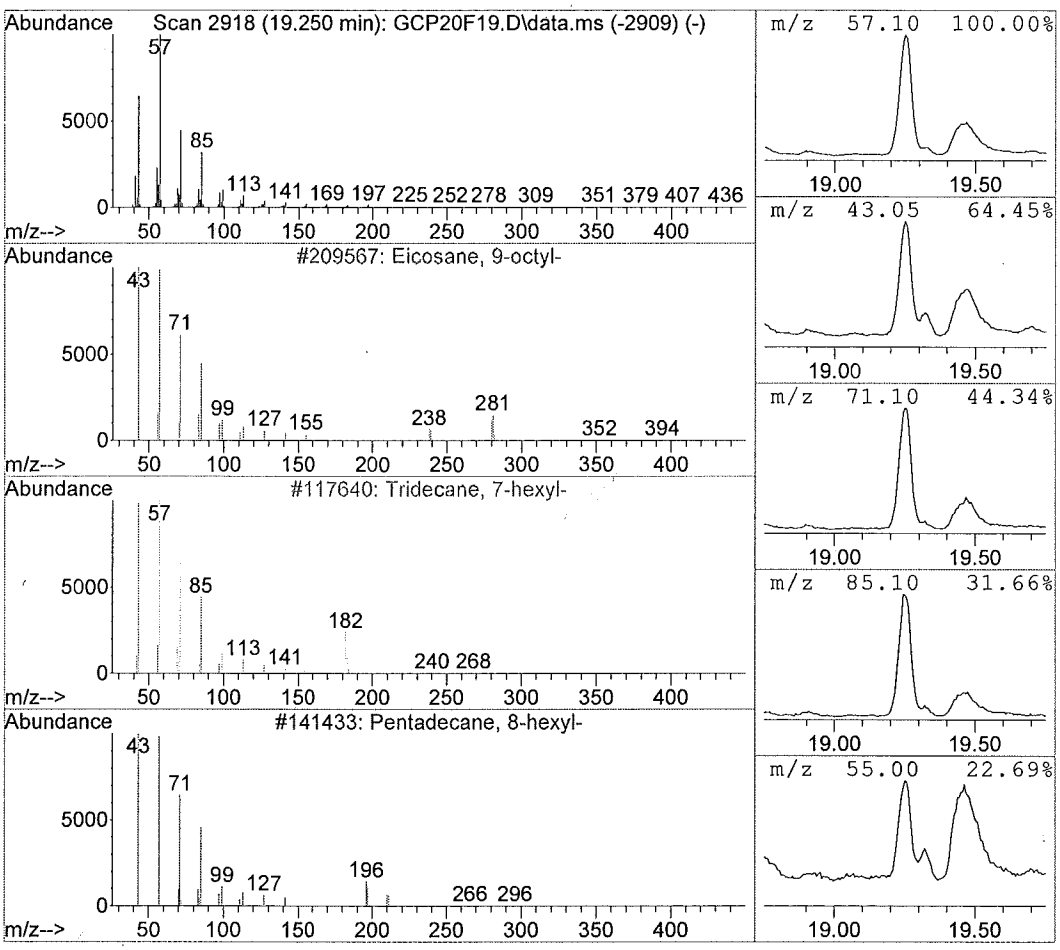
Vial: 17
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

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
19.25	32.31 ug/ml	3323770	Perylene-d12	2057456

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Eicosane, 9-octyl-	209567	013475-77-9	96.00
2	Tridecane, 7-hexyl-	117640	007225-66-3	95.00
3	Pentadecane, 8-hexyl-	141433	013475-75-7	93.00
4	Heptadecane, 9-octyl-	185535	007225-64-1	90.00
5	Eicosane, 10-methyl-	141431	054833-23-7	90.00

BA



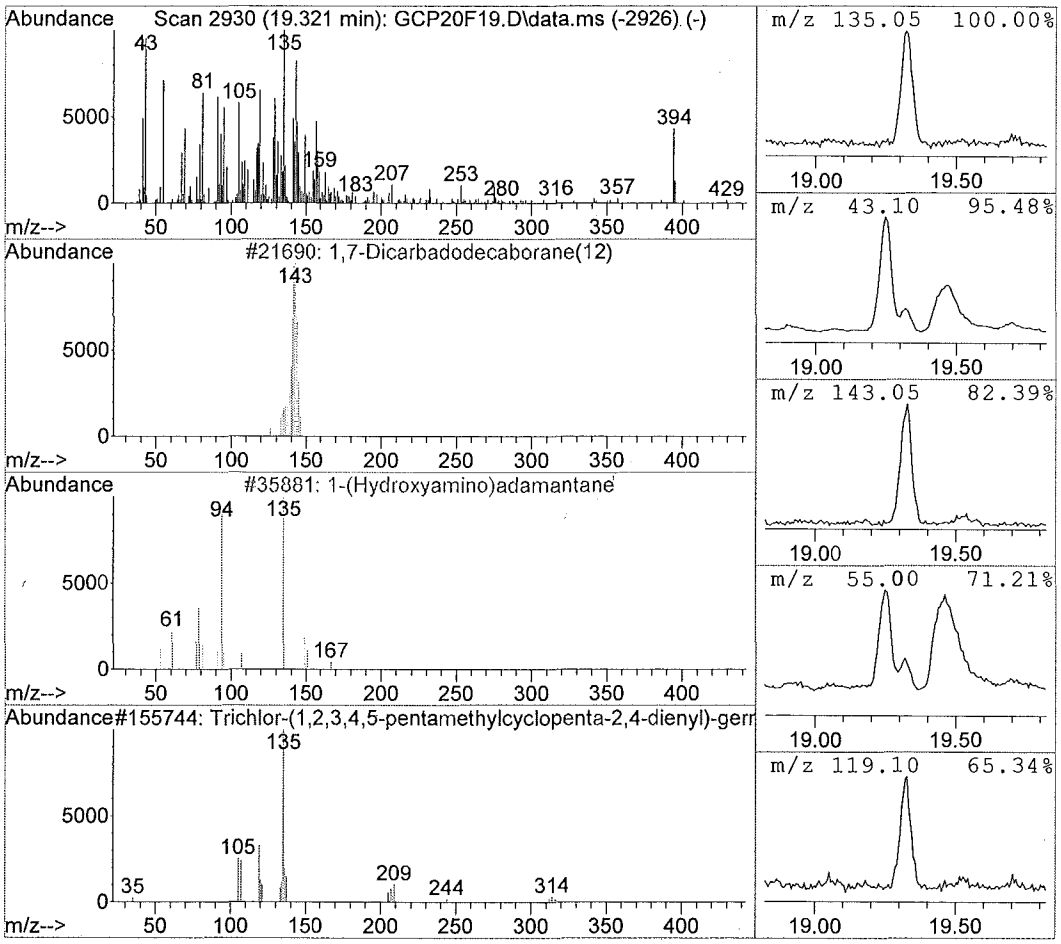
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP20F19.D Vial: 17
Acq On : 07/10/2015 20:53 Operator: TJM
Sample : 1515542019 F9M38 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
19.32	11.79 ug/ml	1212886	Perylene-d12	2057456

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,7-Dicarbadodecaborane(12)	21690	016986-24-6	11.00
2	1-(Hydroxyamino)adamantane	35881	031463-23-7	10.00
3	Trichlor-(1,2,3,4,5-pentamethylcycl	155744	1000288-04-1	10.00
4	1H-Indene, 4,7-dimethyl-	20415	006974-97-6	10.00
5	1-Ethyl-1-isopropoxy-1-silacyclopen	40444	1000282-46-1	10.00



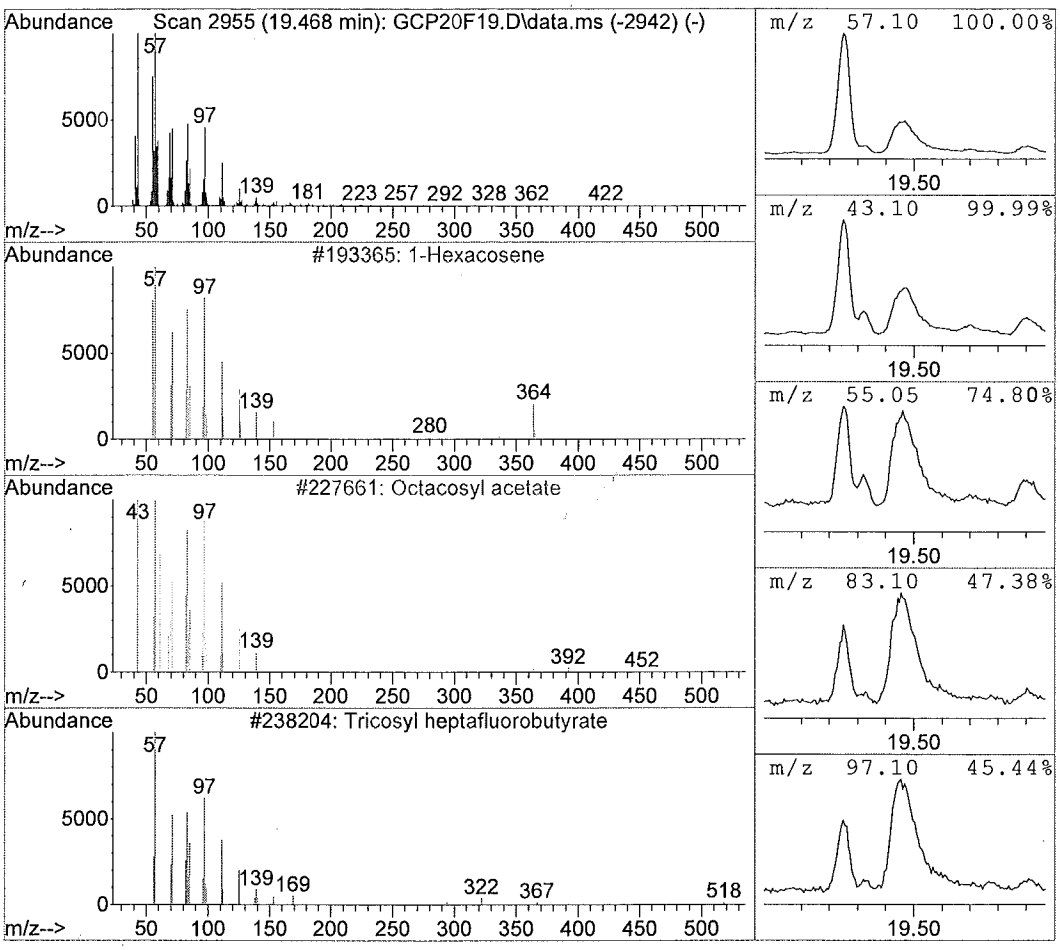
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP20F19.D Vial: 17
Acq On : 07/10/2015 20:53 Operator: TJM
Sample : 1515542019 F9M38 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
19.47	38.02 ug/ml	3911724	Perylene-d12	2057456

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Hexacosene	193365	018835-33-1	87.00
2	Octacosyl acetate	227661	018206-97-8	87.00
3	Tricosyl heptafluorobutyrate	238204	1000351-83-4	83.00
4	Docosyl trifluoroacetate	219709	1000351-75-5	83.00
5	Tetracosyl trifluoroacetate	227109	1000351-76-4	83.00



Library Search Compound Report

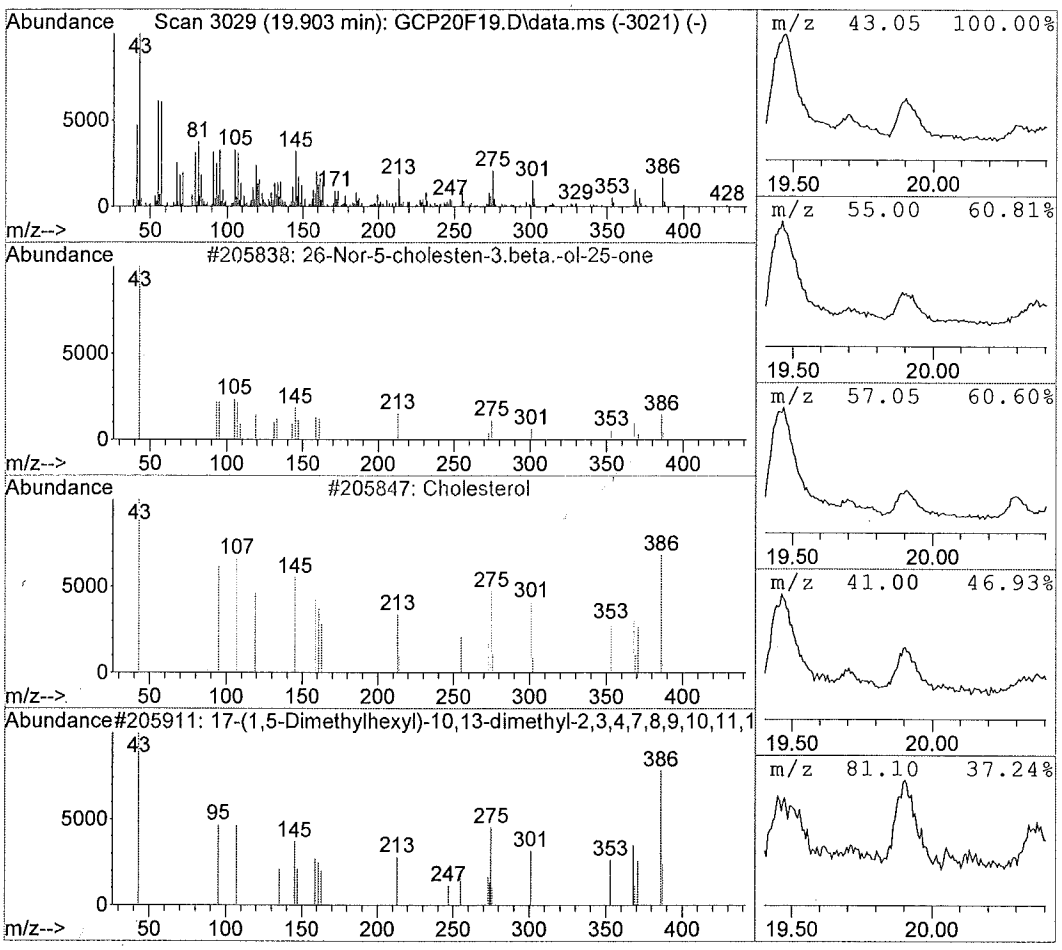
Data File : R:\G\2015\JUL15\10JUL15\GCP20F19.D
Acq On : 07/10/2015 20:53
Sample : 1515542019 F9M38
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 17
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
19.90	15.90 ug/ml	1635395	Perylene-d12	2057456

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	26-Nor-5-cholesten-3.beta.-ol-25-on	205838	007494-34-0	94.00
2	Cholesterol	205847	000057-88-5	83.00
3	17-(1,5-Dimethylhexyl)-10,13-dimeth	205911	1000210-38-4	81.00
4	Cholestane, 4,5-epoxy-, (4.alpha.,5	205901	006079-19-2	48.00
5	Cholestane-3,5-diol, 5-acetate, (3.	226471	041721-93-1	43.00



Library Search Compound Report

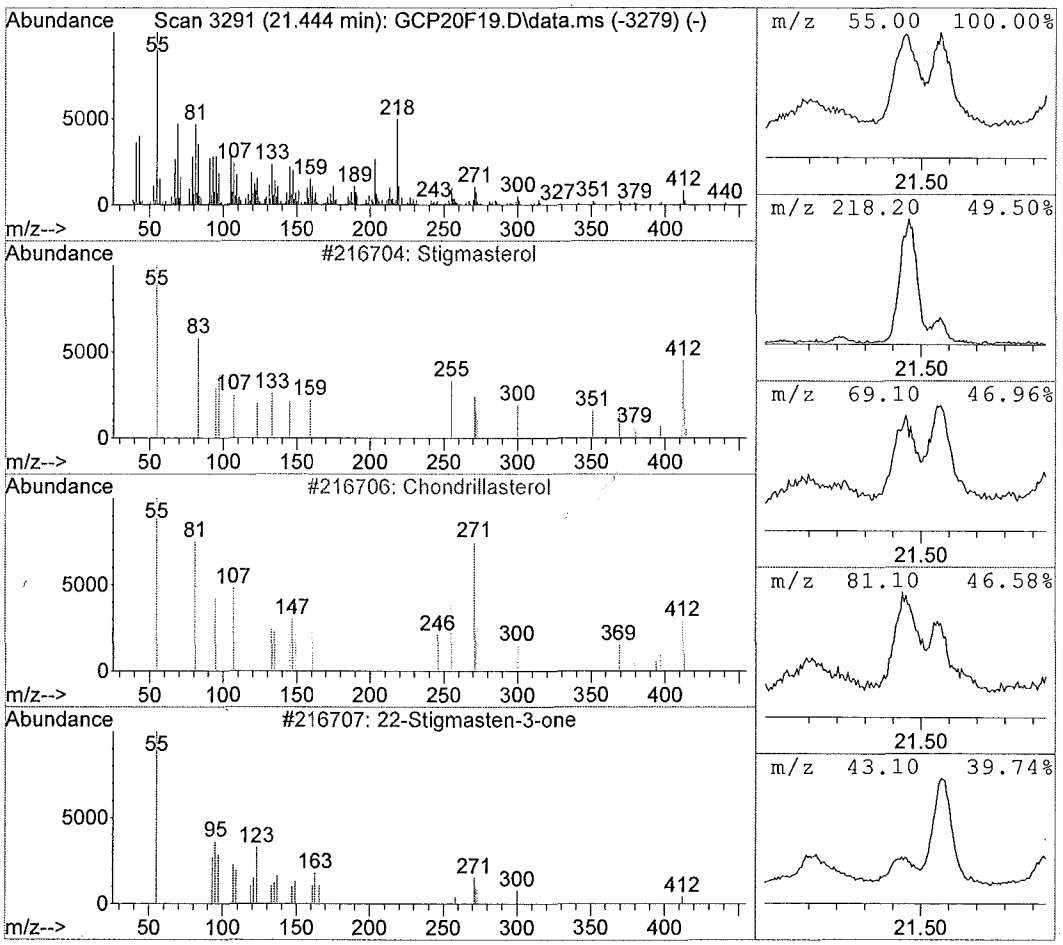
Data File : R:\G\2015\JUL15\10JUL15\GCP20F19.D
Acq On : 07/10/2015 20:53
Sample : 1515542019 F9M38
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 17
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
21.44	20.54 ug/ml	2112946	Perylene-d12	2057456

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Stigmasterol	216704	000083-48-7	59.00
2	Chondrillasterol	216706	000481-17-4	35.00
3	22-Stigmasten-3-one	216707	004736-95-2	30.00
4	1-Methyl-4-(1-methylethenyl)-3-[1-m	216747	1000370-41-5	15.00
5	Methyl (25rs)-3.beta.-acetoxy-5-cho	231420	103160-13-0	13.00



Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP20F19.D
Acq On : 07/10/2015 20:53
Sample : 1515542019 F9M38
Misc : . SOIL SOM
MS Integration Params: rteint.p

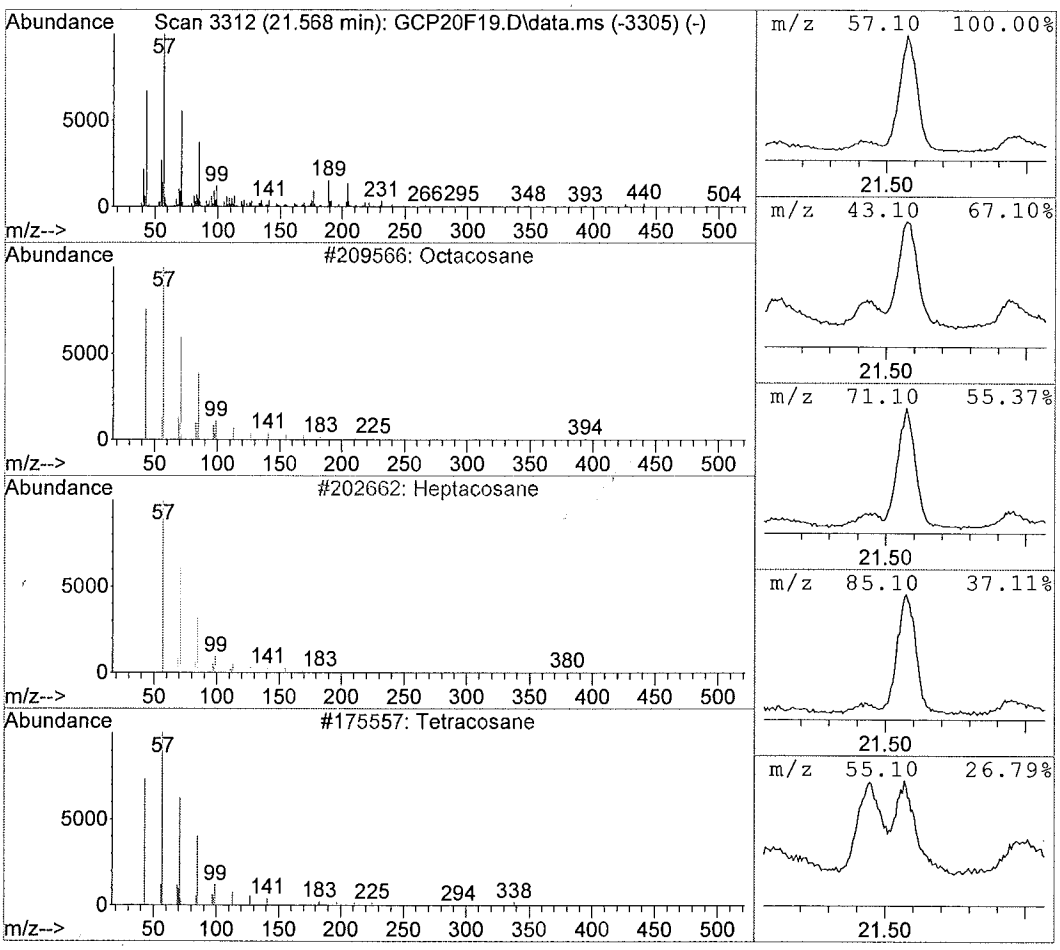
Vial: 17
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

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
21.57	37.12 ug/ml	3818597	Perylene-d12	2057456

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octacosane	209566	000630-02-4	95.00
2	Heptacosane	202662	000593-49-7	64.00
3	Tetracosane	175557	000646-31-1	64.00
4	Heneicosane, 11-decyl-	223853	055320-06-4	64.00
5	Eicosane, 10-methyl-	141431	054833-23-7	64.00

SCA



Library Search Compound Report

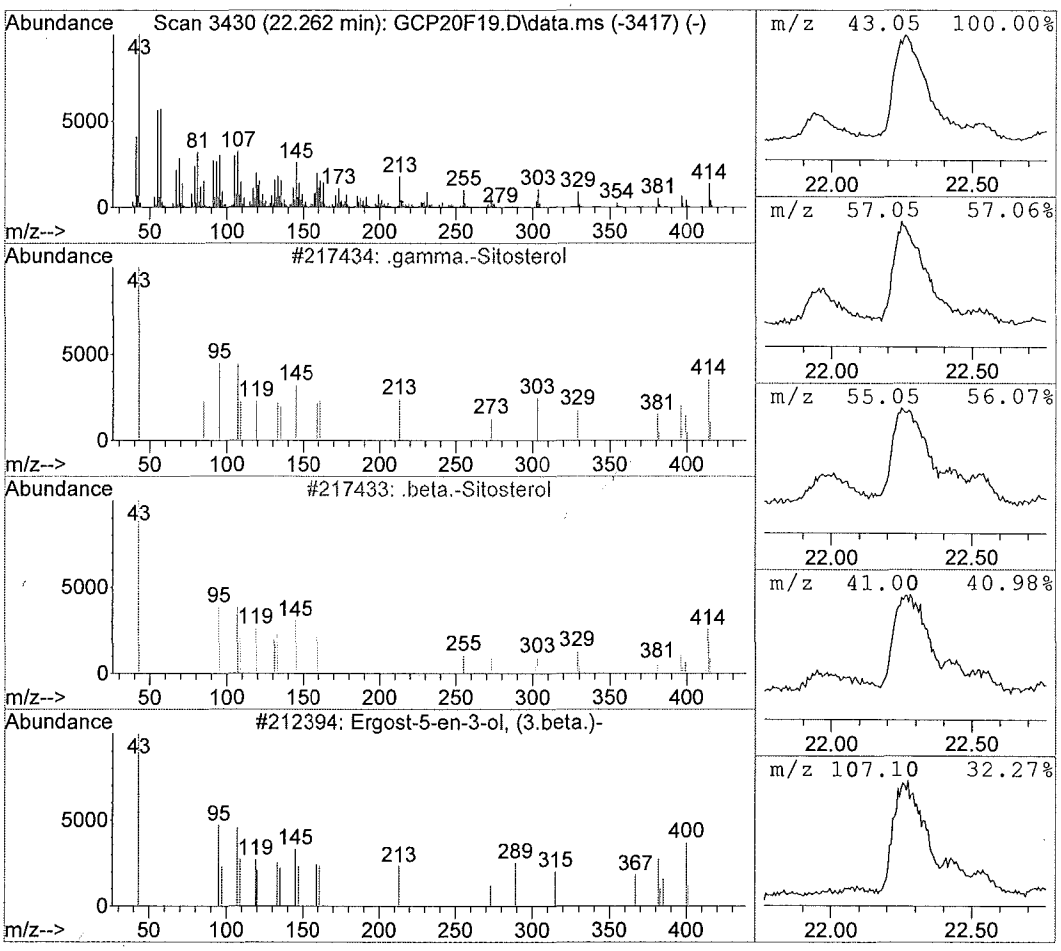
Data File : R:\G\2015\JUL15\10JUL15\GCP20F19.D
Acq On : 07/10/2015 20:53
Sample : 1515542019 F9M38
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 17
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
22.26	28.66 ug/ml	2948658	Perylene-d12	2057456

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	.gamma.-Sitosterol	217434	000083-47-6	99.00
2	.beta.-Sitosterol	217433	000083-46-5	96.00
3	Ergost-5-en-3-ol, (3.beta.)-	212394	004651-51-8	59.00
4	Cholest-5-ene, 3-ethoxy-, (3.beta.)	217443	000986-19-6	58.00
5	Cholest-5-ene, 3-methoxy-, (3.beta.	212402	001174-92-1	50.00



: 00574

Library Search Compound Report

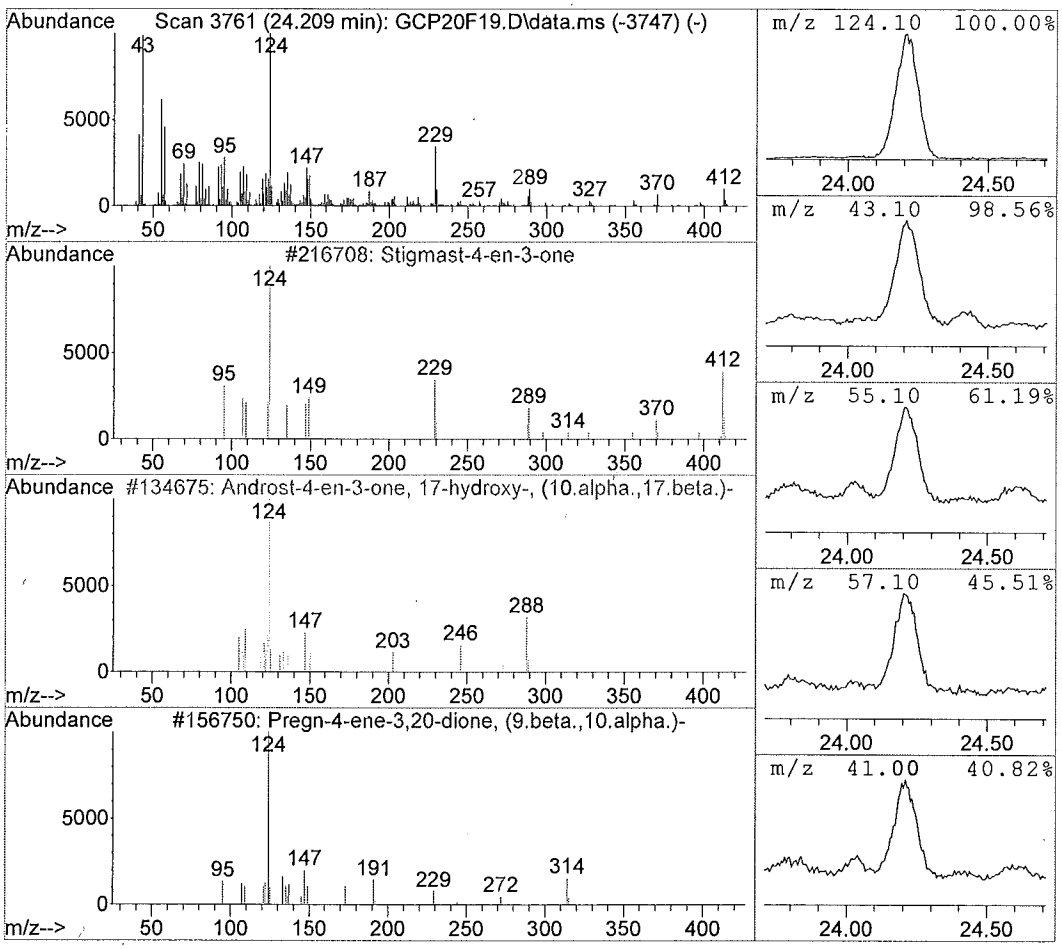
Data File : R:\G\2015\JUL15\10JUL15\GCP20F19.D
Acq On : 07/10/2015 20:53
Sample : 1515542019 F9M38
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 17
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
24.21	39.43 ug/ml	4056212	Perylene-d12	2057456

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Stigmast-4-en-3-one	216708	001058-61-3	94.00
2	Androst-4-en-3-one, 17-hydroxy-, (1	134675	000604-39-7	62.00
3	Pregn-4-ene-3,20-dione, (9.beta.,10	156750	002755-10-4	47.00
4	2,3-Diaminophenol	10327	059649-56-8	43.00
5	1,4-Benzenediol, 2-methyl-	10430	000095-71-6	43.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M39

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GCP21F20

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

% Moisture: 13. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

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	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.

F9M39

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GCP21F20

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

% Moisture: 13. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

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	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	17.	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.

F9M39

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GCP21F20

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

% Moisture: 13. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

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 1,3-Dioxolane, 2,2-dimethyl-	2.31	1400	J
02		Unknown 2-Pentanone, 4-hydroxy-	3.30	820	JB
03		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.52	18000	JB
04		Unknown TATP	4.08	410	J
05		Unknown 5-Iodopentan-2-one	4.19	330	J
06		Unknown 1H-Pyrrole-2,5-dione	4.27	410	J
07		Unknown 3-Hexene-2,5-dione	4.36	250	JB
08		Unknown 2,3-Pentanedione	4.72	280	J
09		Unknown 2-Propanone, 1-hydroxy-	5.10	690	J
10	1000336-31-4	Methyl 13-methyltetradecanoate	11.31	210	JN
11	1120-25-8	9-Hexadecenoic acid, methyl ester, (Z)-	12.25	160	JN
12	1000336-35-5	Methyl 11-hexadecenoate	12.33	160	JN
13	112-39-0	Hexadecanoic acid, methyl ester	12.40	280	JN
14	57-10-3	n-Hexadecanoic acid	12.66	190	JN
15		Unknown 1(2H)-Dibenzofuranone, 3,4-dihydro-8-met	13.00	190	J
16	13481-95-3	10-Octadecenoic acid, methyl ester	13.72	160	JN
17	1120-16-7	Dodecanamide	14.16	420	JN
18	301-02-0	9-Octadecenamide, (Z)-	15.08	2500	JNB
19		Unknown 1-Docosene	15.65	160	J
20		Unknown Cyclohexanecarboxamide	15.86	200	J
21		Unknown Cyclohexanecarboxamide	16.20	290	J
22		Unknown Phthalic acid, monoethyl ester	18.63	2200	J
23		Unknown Oxirane, [(hexadecyloxy)methyl]-	19.47	340	J
24	57-88-5	Cholesterol	19.91	380	JN
25		Unknown Cholestane-3,6-diol, (3.beta.,5.alpha.,6	21.01	980	J
26	502-73-8	16-Hentriacontanone	21.40	1600	JN
27		Unknown Tricyclo[3.3.1.1(3,7)]decane-2,6-dione,	22.89	420	J
28		Unknown Phthalic anhydride	23.32	1600	J
29	1058-61-3	Stigmast-4-en-3-one	24.20	410	JN
30		Unknown Stearic acid hydrazide	24.77	930	J
	E966796[2]	Total Alkanes	N/A	5600	J

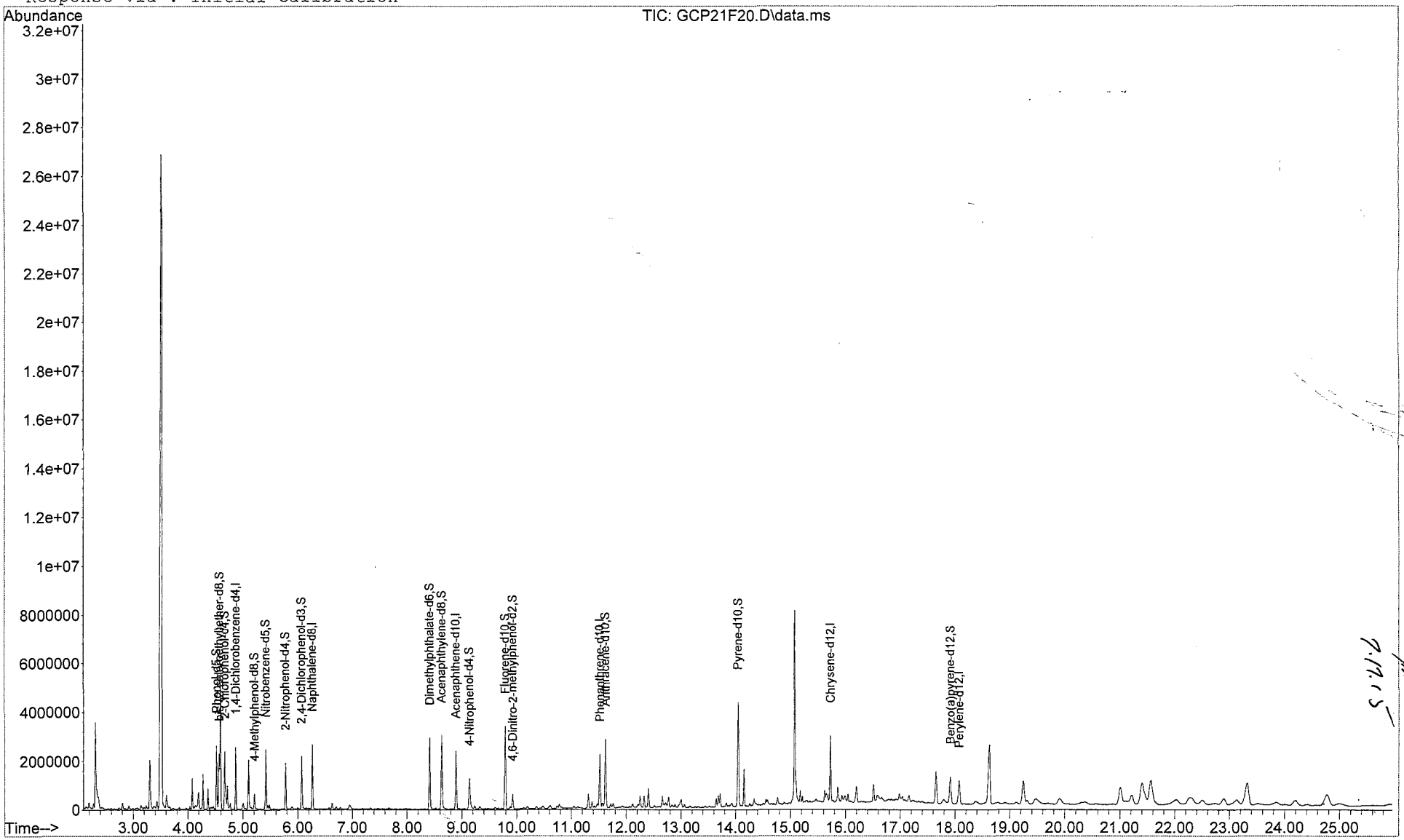
[2] EPA-designated Registry Number.

Quantitation Report

Data File : R:\G\2015\JUL15\10JUL15\GCP21F20.D Vial: 18
Acq On : 07/10/2015 21:26 Operator: TJM
Sample : 1515542020 F9M39 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jul 17 09:38:30 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\10JUL15\GCP21F20.D Vial: 18
Acq On : 07/10/2015 21:26 Operator: TJM
Sample : 1515542020 F9M39 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 17 09:38:30 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	332758	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1264406	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	736827	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1201602	20.00 ug/ml
73) Chrysene-d12	15.73	240	1136234	20.00 ug/ml
81) Perylene-d12	18.07	264	681477	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.52	99	720856	24.894ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	481941	21.356ug/mL
7) 2-Chlorophenol-d4	4.67	132	553059	22.621ug/ml
13) 4-Methylphenol-d8	5.21	113	113370	5.853ug/mL
17) Nitrobenzene-d5	5.42	128	263048	23.682ug/ml
21) 2-Nitrophenol-d4	5.77	143	290830	24.771ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	447440	24.475ug/mL
28) 4-Chloroaniline-d4	6.36	131	1034	0.052ug/mL
42) Dimethylphthalate-d6	8.42	166	1464545	31.697ug/mL
45) Acenaphthylene-d8	8.63	160	1742062	27.744ug/mL
50) 4-Nitrophenol-d4	9.14	143	266023	28.223ug/mL
57) Fluorene-d10	9.79	176	1232298	31.231ug/mL
61) 4,6-Dinitro-2-methylphenol	9.93	200	85083	9.976ug/mL
69) Anthracene-d10	11.62	188	1548179	24.296ug/mL
75) Pyrene-d10	14.04	212	1823580	32.160ug/mL
86) Benzo(a)pyrene-d12	17.92	264	760044	23.275ug/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)

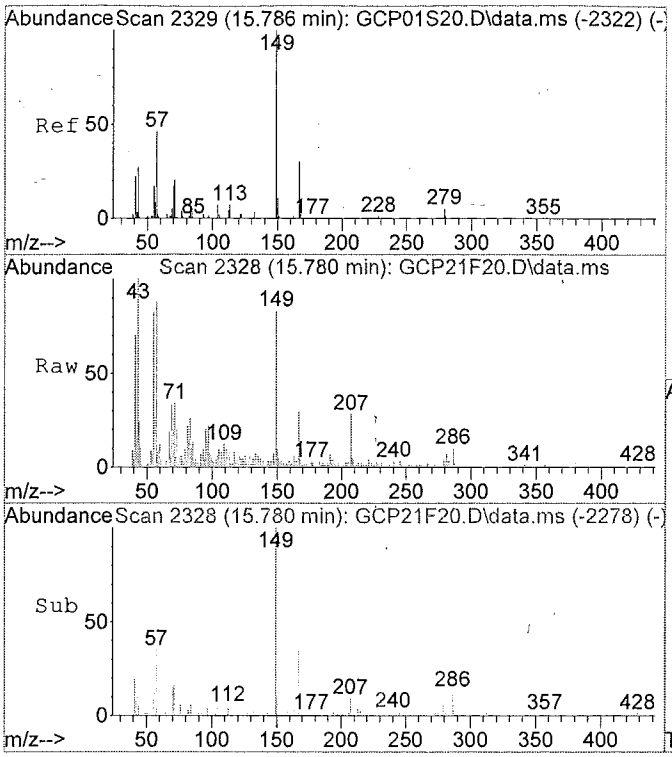
Quantitation Report

Data File : R:\G\2015\JUL15\10JUL15\GCP21F20.D Vial: 18
Acq On : 07/10/2015 21:26 Operator: TJM
Sample : 1515542020 F9M39 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 17 09:38:30 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	24982	0.445ug/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	

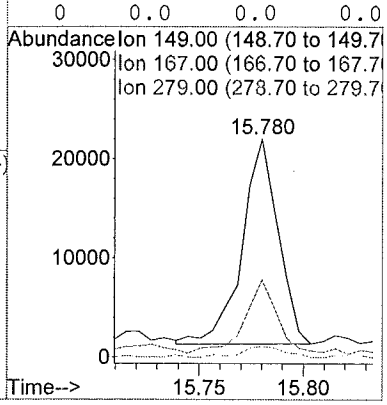
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)



#80
Bis-(2-ethylhexyl)phthalate
Concen: 0.44 ug/ml
RT: 15.78 min Scan# 2328
Delta R.T. -0.01 min
Lab File: GCP21F20.D
Acq: 07/10/2015 21:26

Tgt Ion:149 Resp: 24982

Ion	Ratio	Lower	Upper
149	100		
167	32.5	22.0	40.8
279	6.2	5.0	9.2
0	0.0	0.0	0.0



Library Search Compound Report

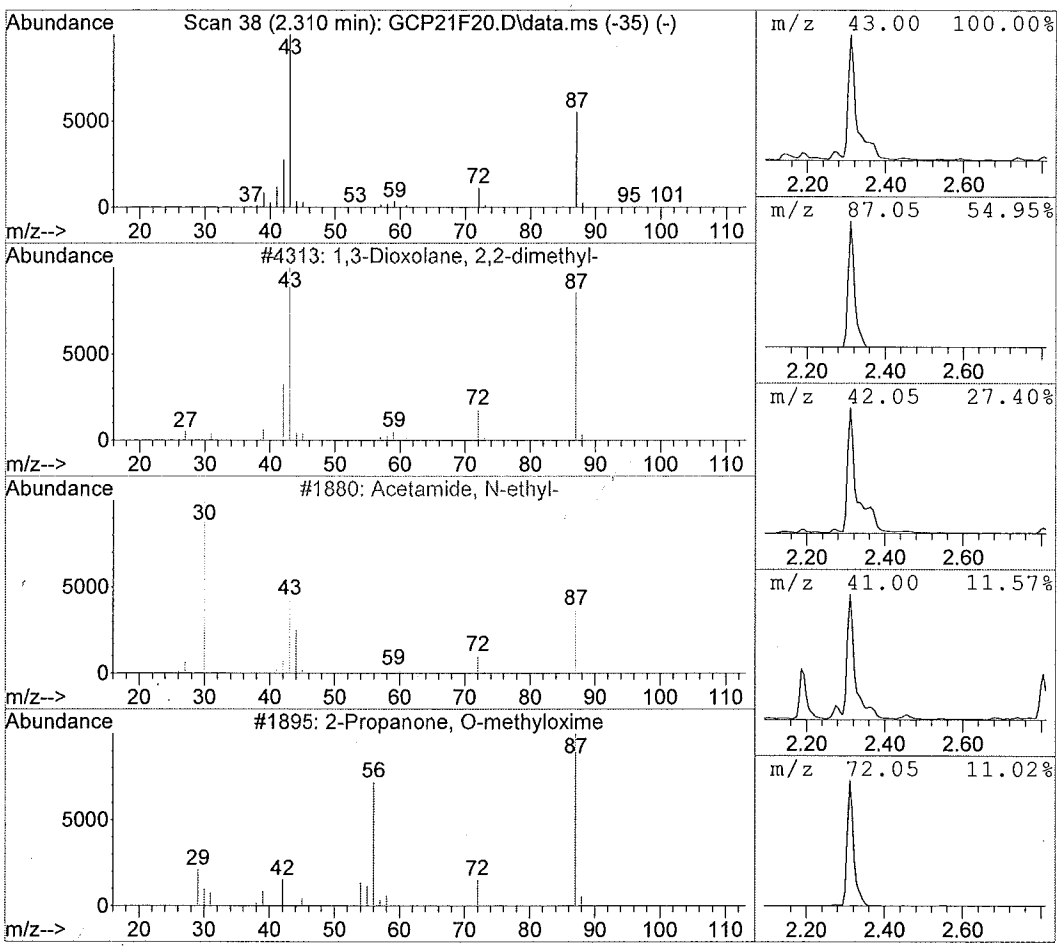
Data File : R:\G\2015\JUL15\10JUL15\GCP21F20.D
Acq On : 07/10/2015 21:26
Sample : 1515542020 F9M39
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 18
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
2.31	36.42 ug/ml	4485900	1,4-Dichlorobenzene-d4	2463573

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,3-Dioxolane, 2,2-dimethyl-	4313	002916-31-6	53.00
2	Acetamide, N-ethyl-	1880	000625-50-3	42.00
3	2-Propanone, O-methyloxime	1895	003376-35-0	37.00
4	Ethanol, 2,2'-[1,2-ethanediylbis(ox	88551	000111-21-7	25.00
5	Pentane	706	000109-66-0	9.00



Library Search Compound Report

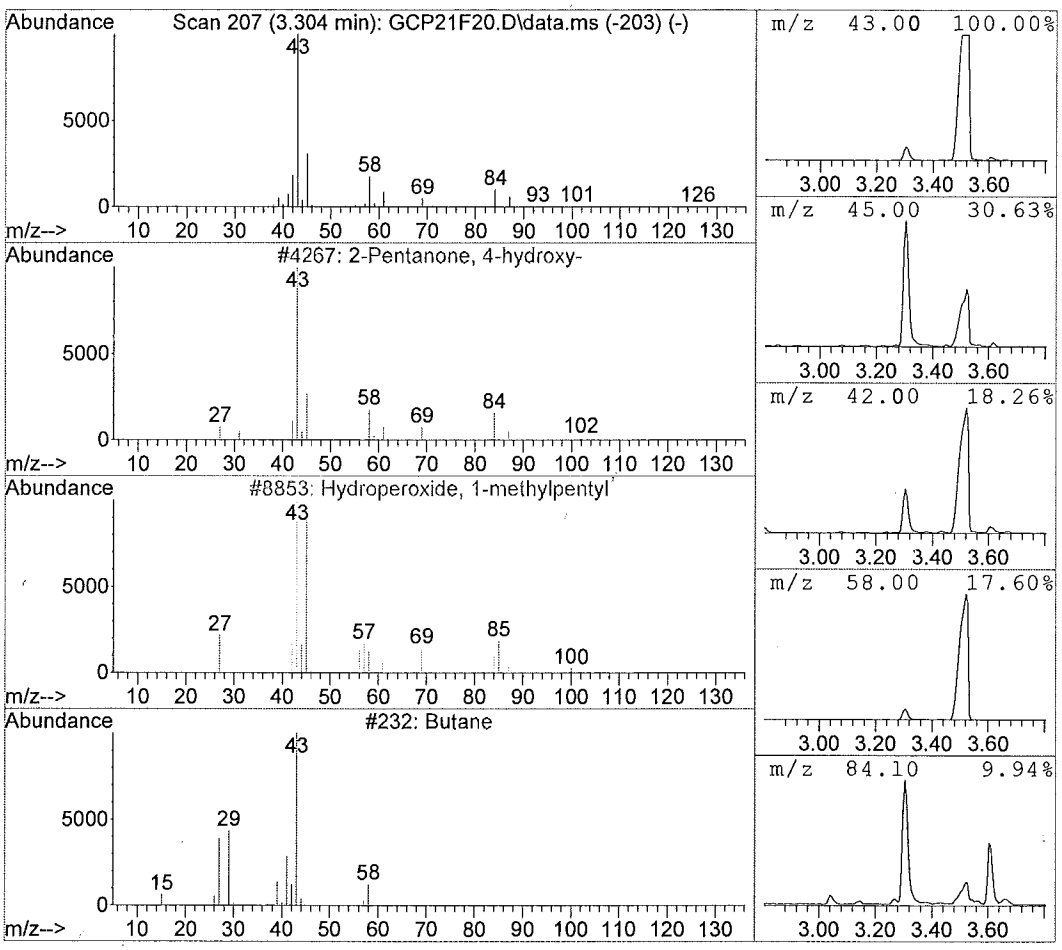
Data File : R:\G\2015\JUL15\10JUL15\GCP21F20.D
Acq On : 07/10/2015 21:26
Sample : 1515542020 F9M39
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 18
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	21.66 ug/ml	2668525	1,4-Dichlorobenzene-d4	2463573

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	40.00
2	Hydroperoxide, 1-methylpentyl	8853	024254-55-5	33.00
3	Butane	232	000106-97-8	25.00
4	Acetone	214	000067-64-1	9.00
5	Propane, 1-(1-methylethoxy)-	4493	000627-08-7	9.00



Library Search Compound Report

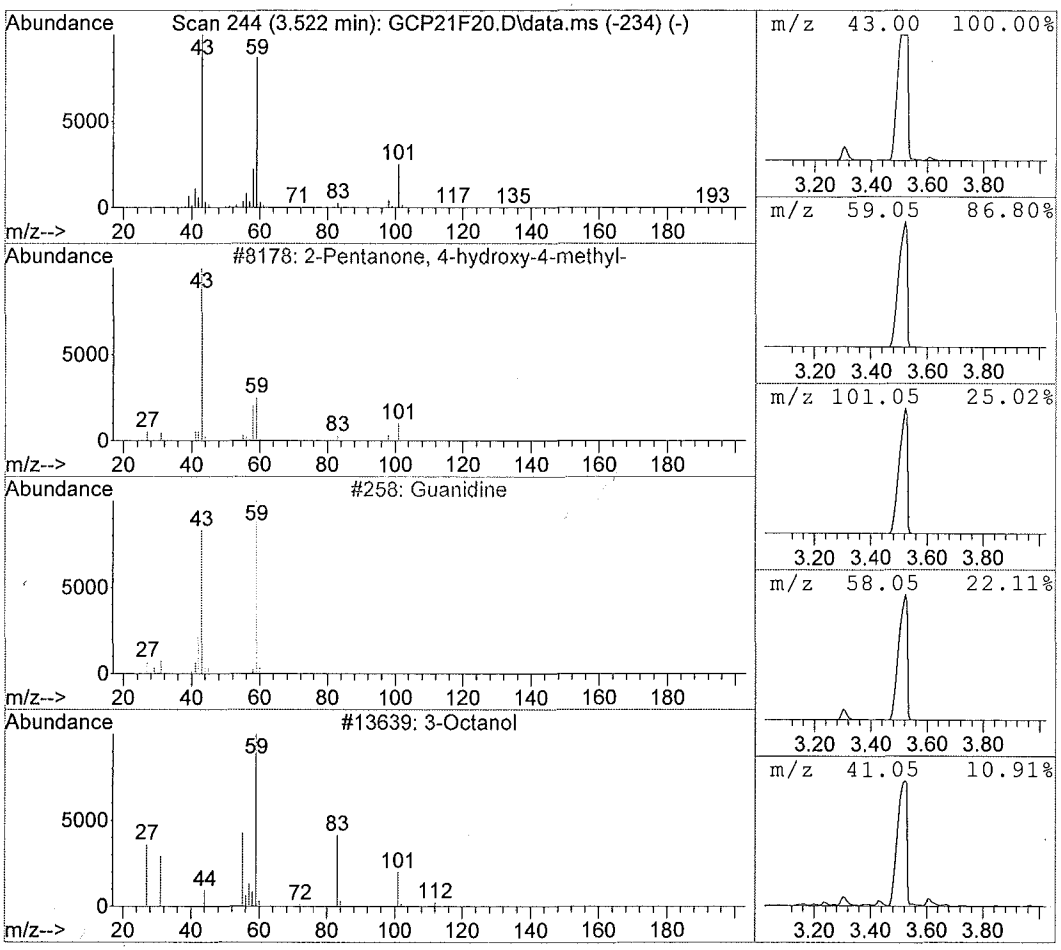
Data File : R:\G\2015\JUL15\10JUL15\GCP21F20.D
Acq On : 07/10/2015 21:26
Sample : 1515542020 F9M39
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 18
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
3.52	481.28 ug/ml	59283560	1,4-Dichlorobenzene-d4	2463573

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8178	000123-42-2	50.00
2	Guanidine	258	000113-00-8	49.00
3	3-Octanol	13639	000589-98-0	36.00
4	2-Hexanol, 2-methyl-	8346	000625-23-0	33.00
5	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	28.00



Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP21F20.D
Acq On : 07/10/2015 21:26
Sample : 1515542020 F9M39
Misc : . SOIL SOM
MS Integration Params: rteint.p

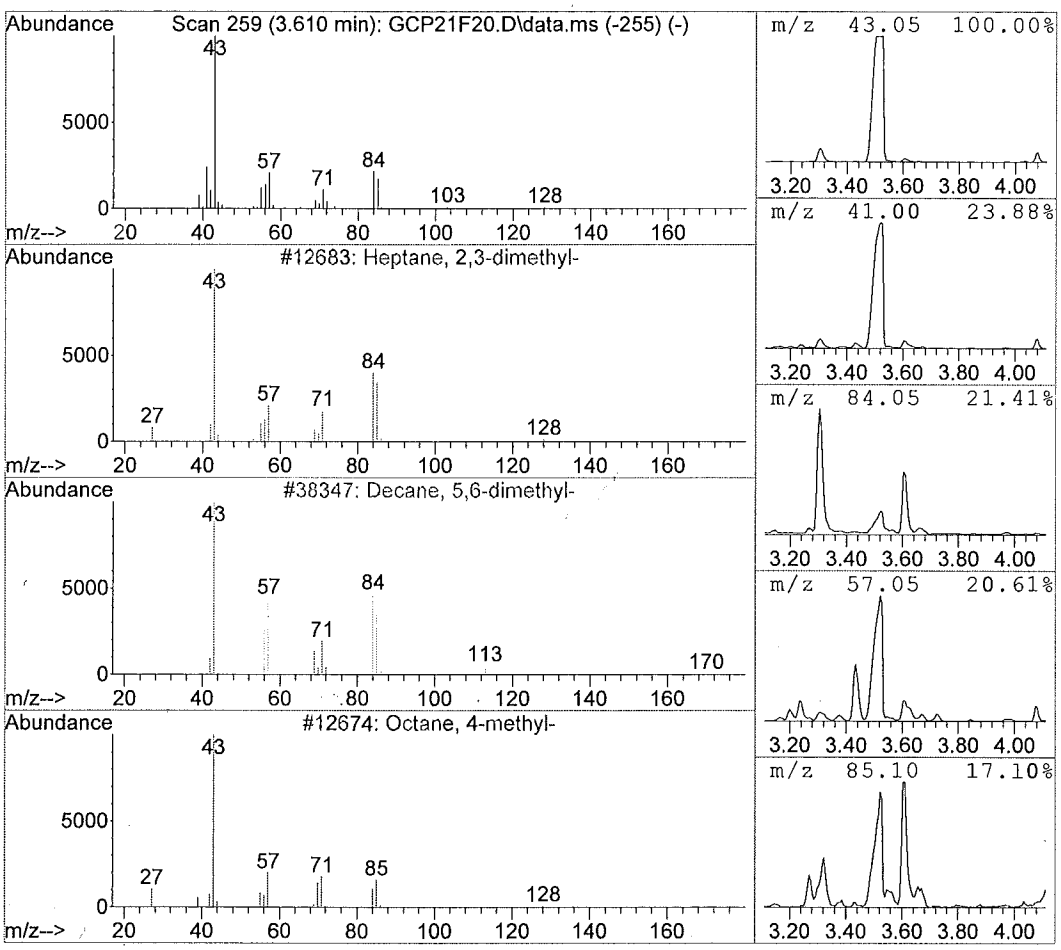
Vial: 18
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

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
3.61	6.15 ug/ml	757835	1,4-Dichlorobenzene-d4	2463573

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12683	003074-71-3	83.00
2	Decane, 5,6-dimethyl-	38347	001636-43-7	78.00
3	Octane, 4-methyl-	12674	002216-34-4	64.00
4	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	59.00
5	Octane	7620	000111-65-9	53.00

BA



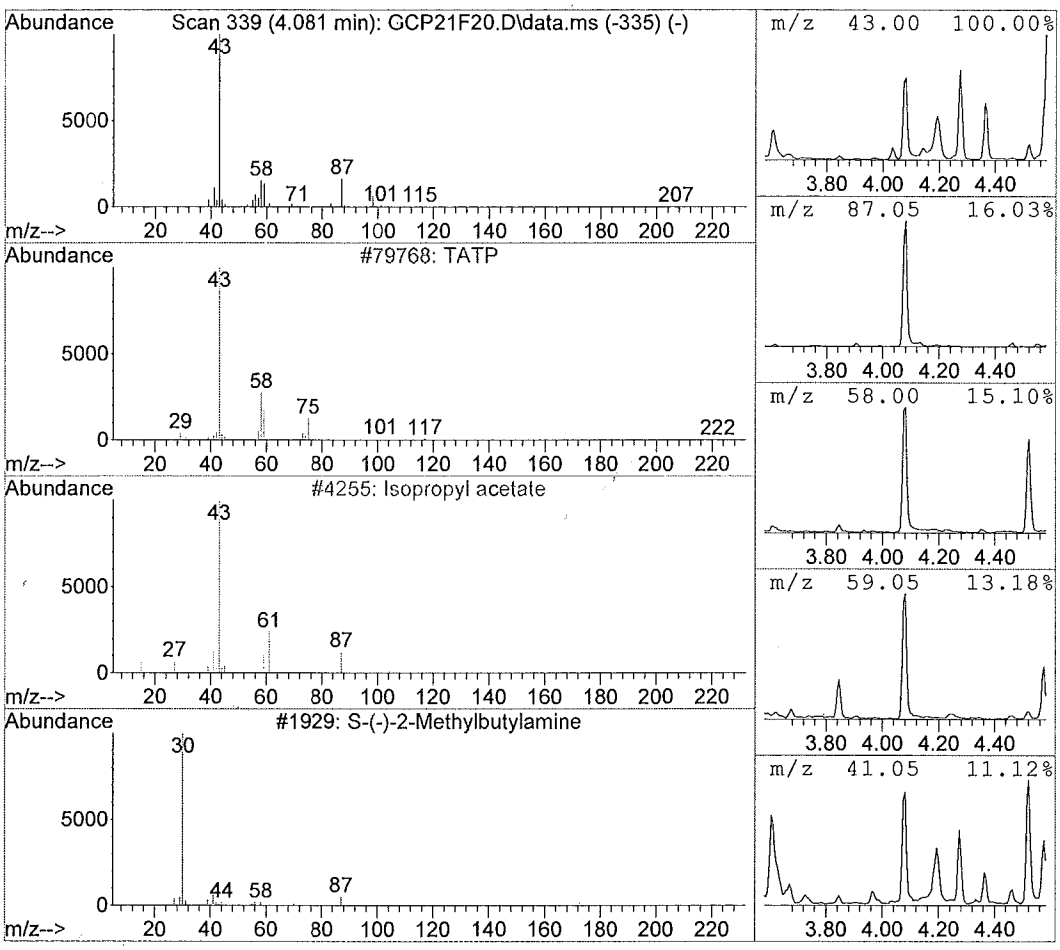
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP21F20.D Vial: 18
Acq On : 07/10/2015 21:26 Operator: TJM
Sample : 1515542020 F9M39 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
4.08	10.71 ug/ml	1318648	1,4-Dichlorobenzene-d4	2463573

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	TATP	79768	017088-37-8	33.00
2	Isopropyl acetate	4255	000108-21-4	25.00
3	S-(-)-2-Methylbutylamine	1929	020626-52-2	9.00
4	Acetamide, N-acetyl-N-methyl-	7755	001113-68-4	9.00
5	1,2-Epoxy-3-propyl acetate	8034	006387-89-9	9.00



Library Search Compound Report

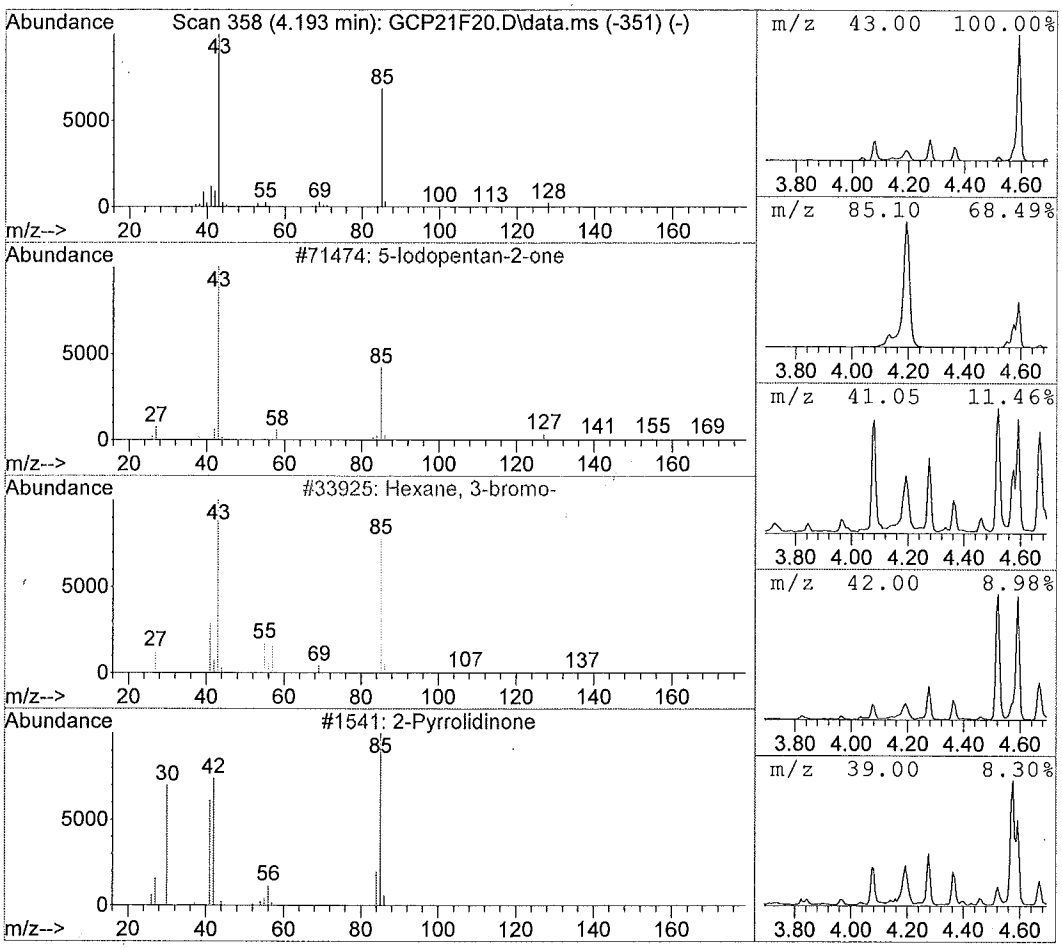
Data File : R:\G\2015\JUL15\10JUL15\GCP21F20.D
Acq On : 07/10/2015 21:26
Sample : 1515542020 F9M39
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 18
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
4.19	8.81 ug/ml	1085696	1,4-Dichlorobenzene-d4	2463573

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	5-Iodopentan-2-one	71474	003695-29-2	39.00
2	Hexane, 3-bromo-	33925	003377-87-5	38.00
3	2-Pyrrolidinone	1541	000616-45-5	37.00
4	4-Methoxy-3-buten-2-one	3689	004652-27-1	28.00
5	Hexane, 2,3,5-trimethyl-	12708	001069-53-0	9.00



00588

Library Search Compound Report

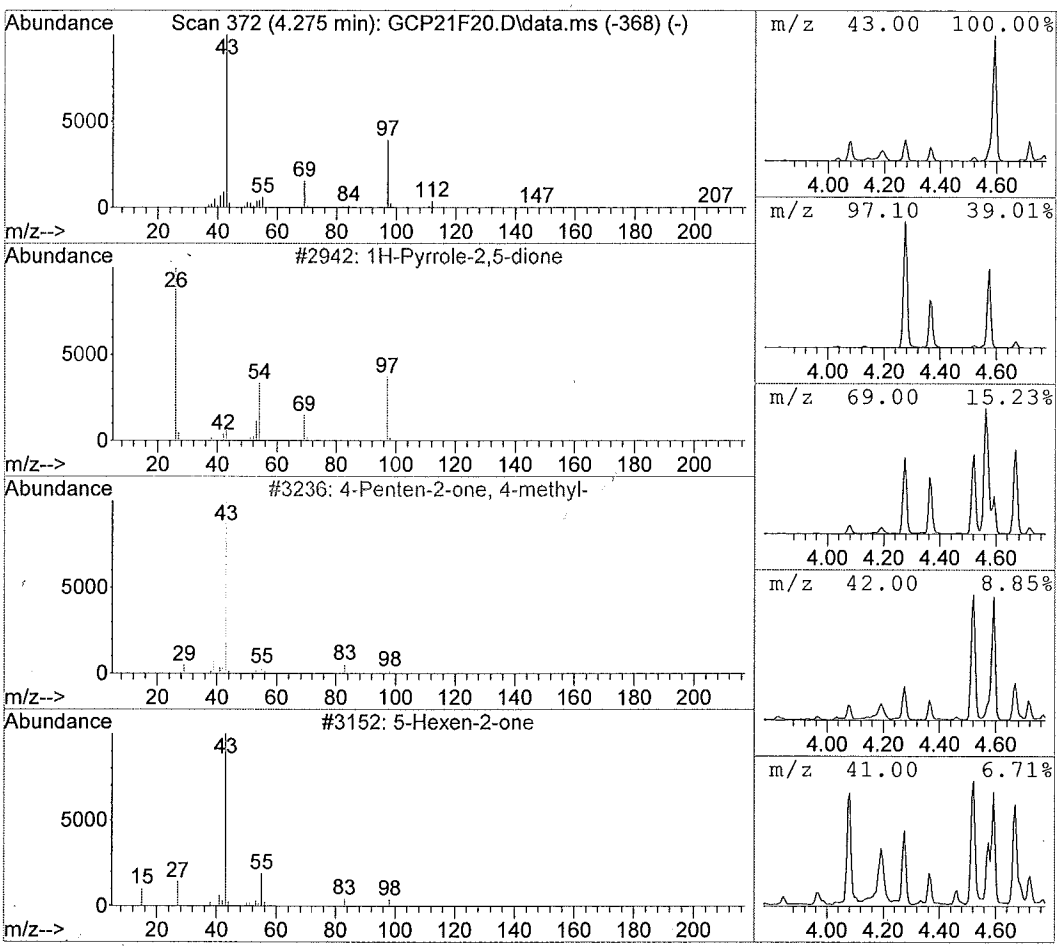
Data File : R:\G\2015\JUL15\10JUL15\GCP21F20.D
Acq On : 07/10/2015 21:26
Sample : 1515542020 F9M39
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 18
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	10.71 ug/ml	1319219	1,4-Dichlorobenzene-d4	2463573

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	40.00
2	4-Penten-2-one, 4-methyl-	3236	003744-02-3	9.00
3	5-Hexen-2-one	3152	000109-49-9	9.00
4	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

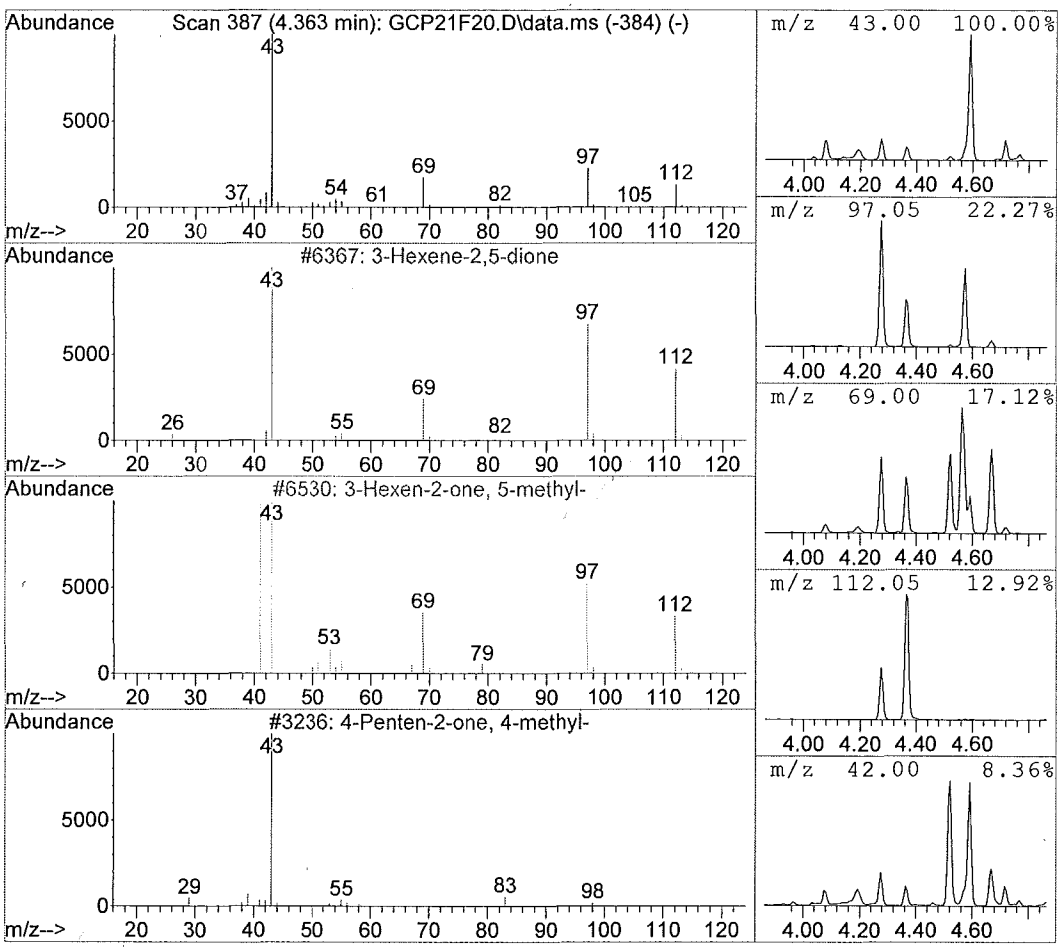
Data File : R:\G\2015\JUL15\10JUL15\GCP21F20.D
Acq On : 07/10/2015 21:26
Sample : 1515542020 F9M39
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 18
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
4.36	6.52 ug/ml	803465	1,4-Dichlorobenzene-d4	2463573

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Hexene-2,5-dione	6367	004436-75-3	78.00
2	3-Hexen-2-one, 5-methyl-	6530	005166-53-0	33.00
3	4-Penten-2-one, 4-methyl-	3236	003744-02-3	9.00
4	1H-Pyrrole-2,5-dione	2942	000541-59-3	9.00
5	Acetic acid, 2-ethylhexyl ester	39552	000103-09-3	9.00



Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP21F20.D
Acq On : 07/10/2015 21:26
Sample : 1515542020 F9M39
Misc : . SOIL SOM
MS Integration Params: rteint.p

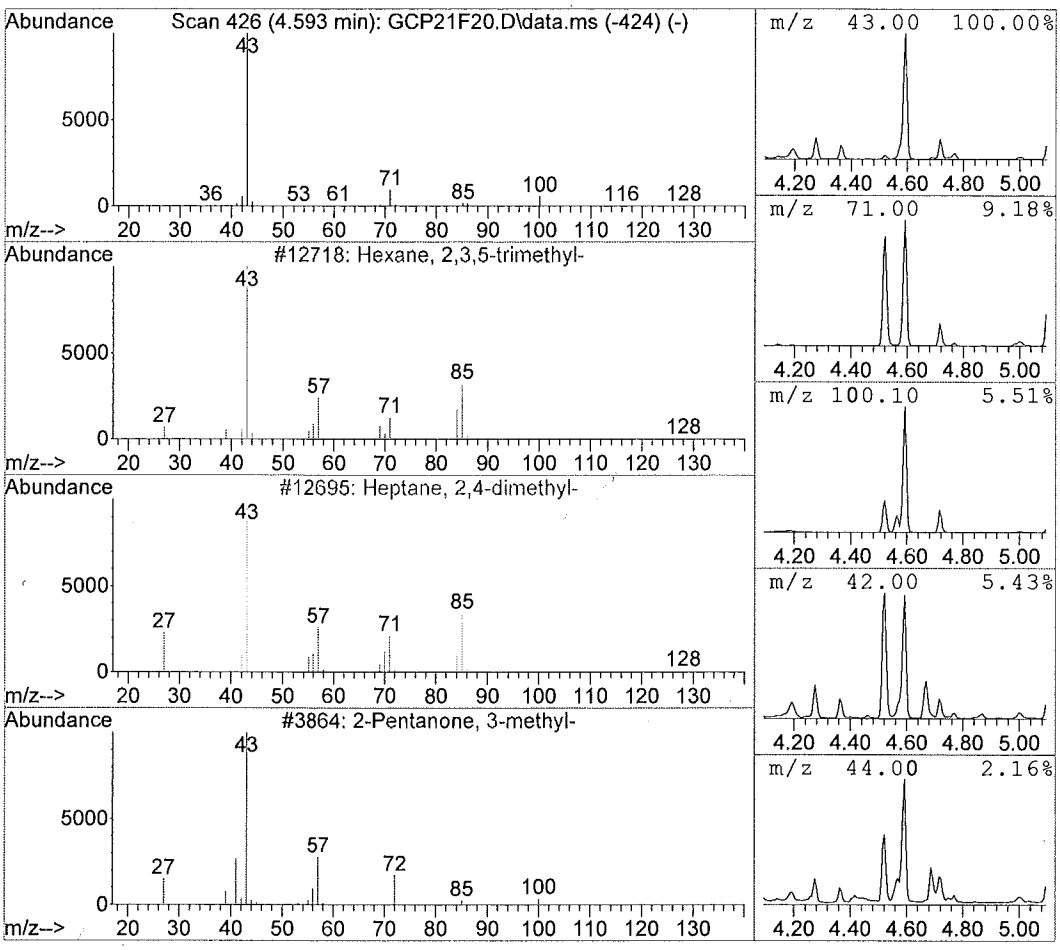
Vial: 18
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

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	36.26 ug/ml	4465848	1,4-Dichlorobenzene-d4	2463573

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	7.00
2	Heptane, 2,4-dimethyl-	12695	002213-23-2	5.00
3	2-Pentanone, 3-methyl-	3864	000565-61-7	5.00
4	1-Propen-2-ol, acetate	3687	000108-22-5	5.00
5	Pentane, 3-ethyl-2,4-dimethyl-	12745	001068-87-7	5.00

BA



Library Search Compound Report

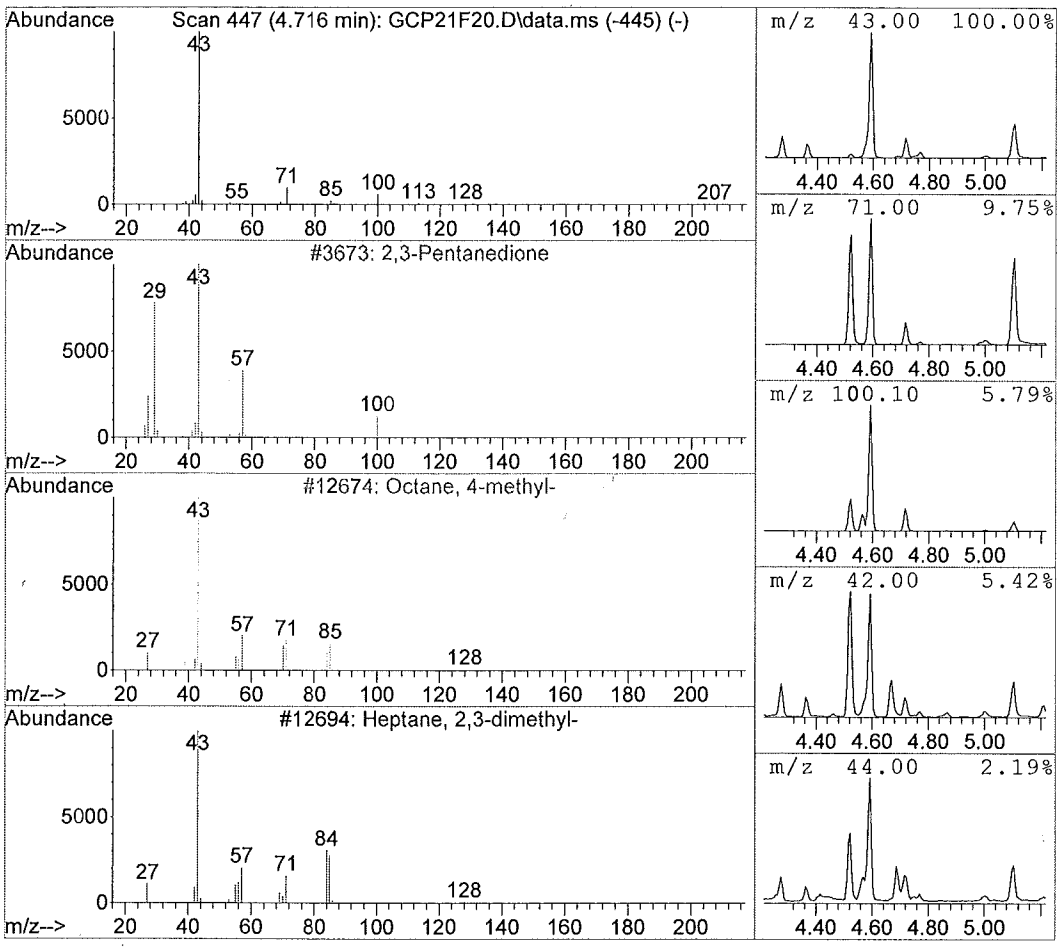
Data File : R:\G\2015\JUL15\10JUL15\GCP21F20.D
Acq On : 07/10/2015 21:26
Sample : 1515542020 F9M39
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 18
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
4.72	7.24 ug/ml	892307	1,4-Dichlorobenzene-d4	2463573

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,3-Pentanedione	3673	000600-14-6	9.00
2	Octane, 4-methyl-	12674	002216-34-4	9.00
3	Heptane, 2,3-dimethyl-	12694	003074-71-3	7.00
4	Heptane, 2,4-dimethyl-	12695	002213-23-2	5.00
5	1-Butanol, 2-methylene-, acetate	12273	055670-09-2	5.00



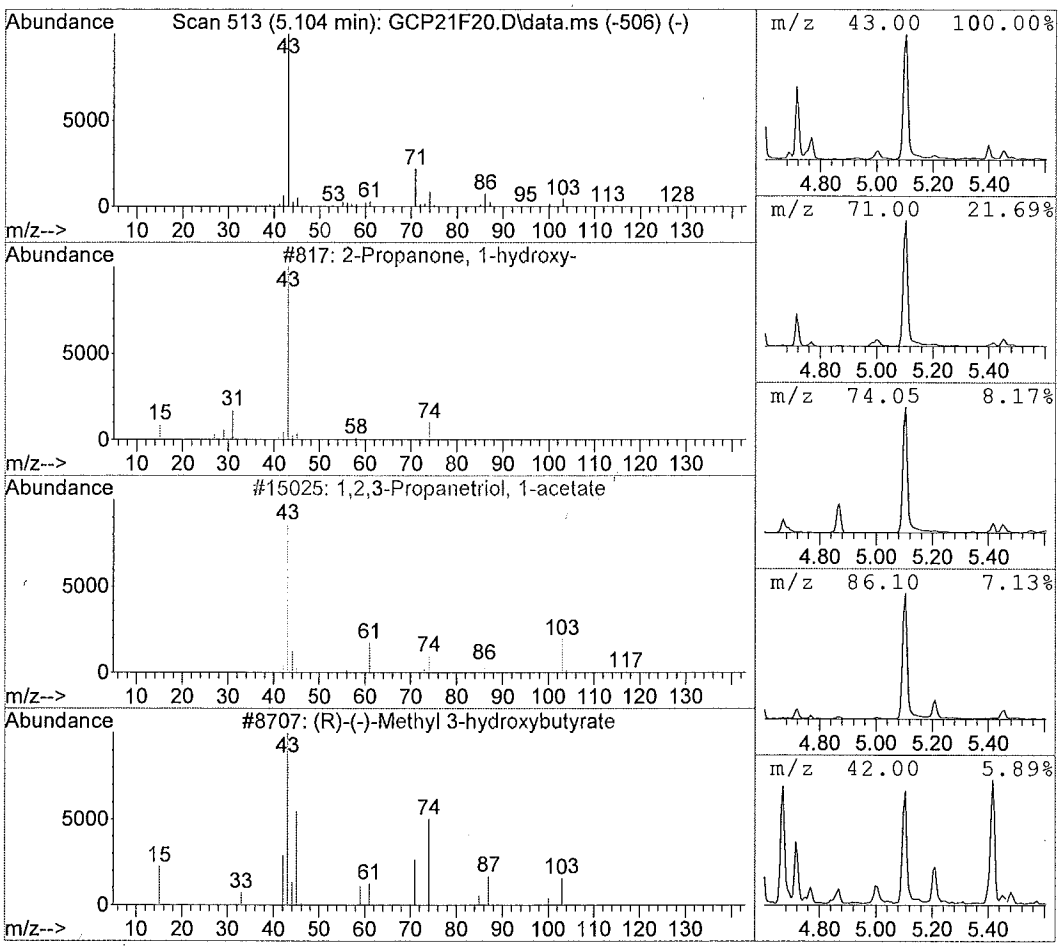
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP21F20.D Vial: 18
Acq On : 07/10/2015 21:26 Operator: TJM
Sample : 1515542020 F9M39 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
5.10	18.24 ug/ml	2247118	1,4-Dichlorobenzene-d4	2463573

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propanone, 1-hydroxy-	817	000116-09-6	22.00
2	1,2,3-Propanetriol, 1-acetate	15025	000106-61-6	17.00
3	(R)-(-)-Methyl 3-hydroxybutyrate	8707	003976-69-0	10.00
4	Butanoic acid, 3-hydroxy-, methyl e	8732	053562-86-0	10.00
5	Butanoic acid, 3-hydroxy-, methyl e	8724	001487-49-6	10.00



Library Search Compound Report

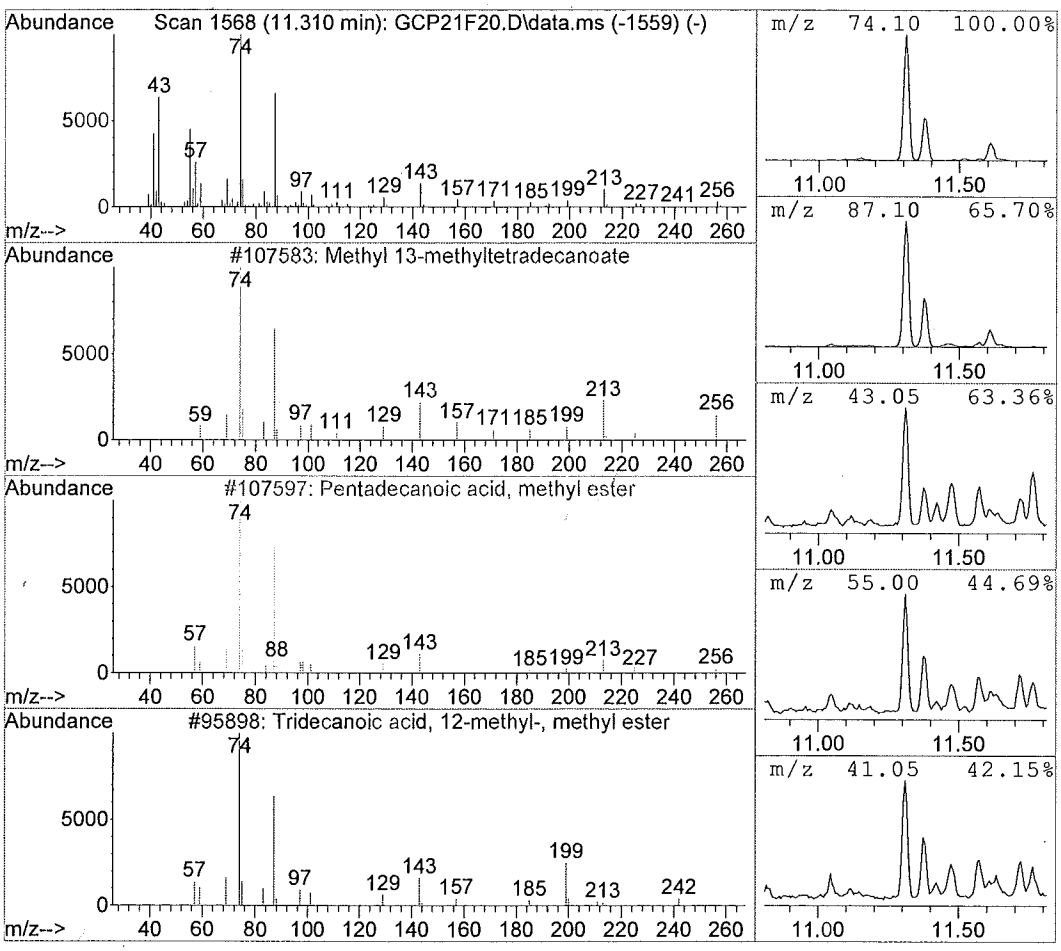
Data File : R:\G\2015\JUL15\10JUL15\GCP21F20.D
Acq On : 07/10/2015 21:26
Sample : 1515542020 F9M39
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 18
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	5.52 ug/ml	851033	Phenanthrene-d10	3083007

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Methyl 13-methyltetradecanoate	107583	1000336-31-4	96.00
2	Pentadecanoic acid, methyl ester	107597	007132-64-1	93.00
3	Tridecanoic acid, 12-methyl-, methy	95898	005129-58-8	86.00
4	Hexadecanoic acid, 15-methyl-, meth	131317	006929-04-0	80.00
5	Undecanoic acid, 10-methyl-, methyl	72720	005129-56-6	80.00



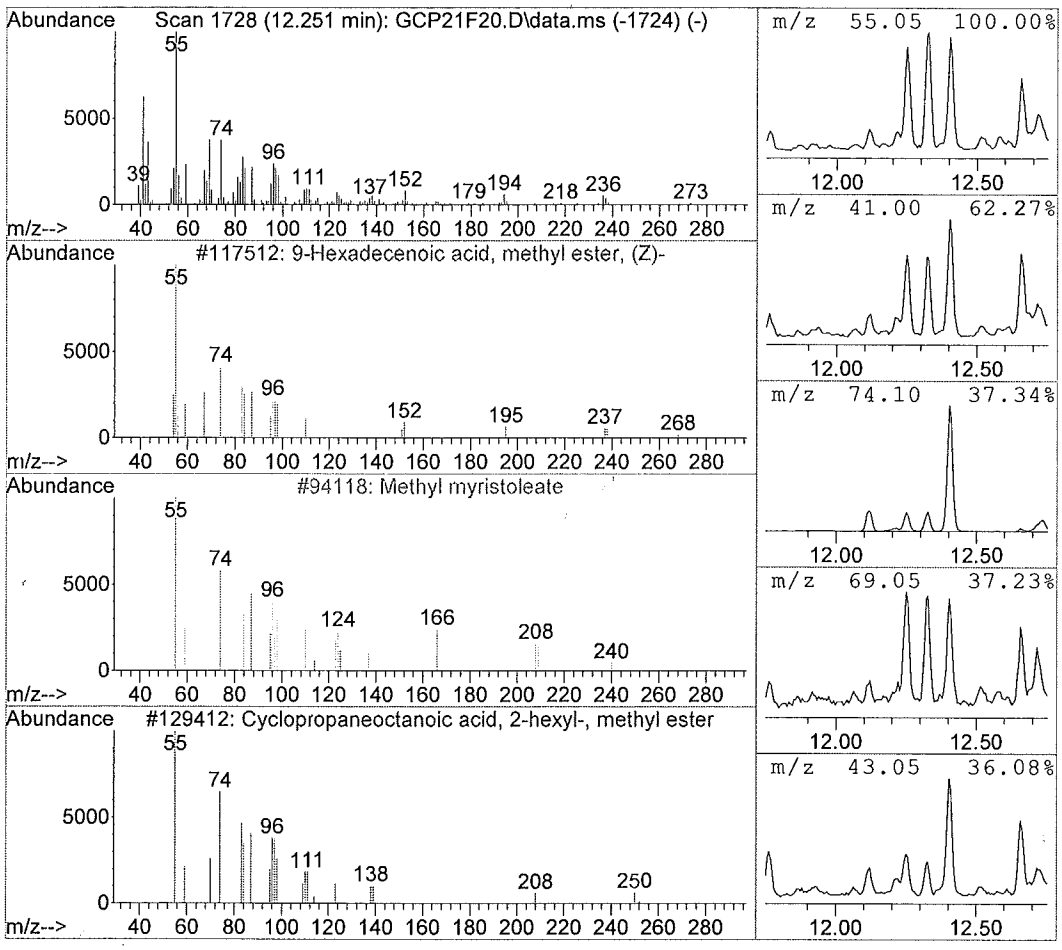
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP21F20.D Vial: 18
Acq On : 07/10/2015 21:26 Operator: TJM
Sample : 1515542020 F9M39 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	4.33 ug/ml	668098	Phenanthrene-d10	3083007

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Hexadecenoic acid, methyl ester,	117512	001120-25-8	93.00
2	Methyl myristoleate	94118	056219-06-8	80.00
3	Cyclopropaneoctanoic acid, 2-hexyl-	129412	010152-61-1	74.00
4	9-Dodecenoic acid, methyl ester, (E	71096	055030-26-7	64.00
5	11-Hexadecenoic acid, methyl ester	117489	055000-42-5	60.00



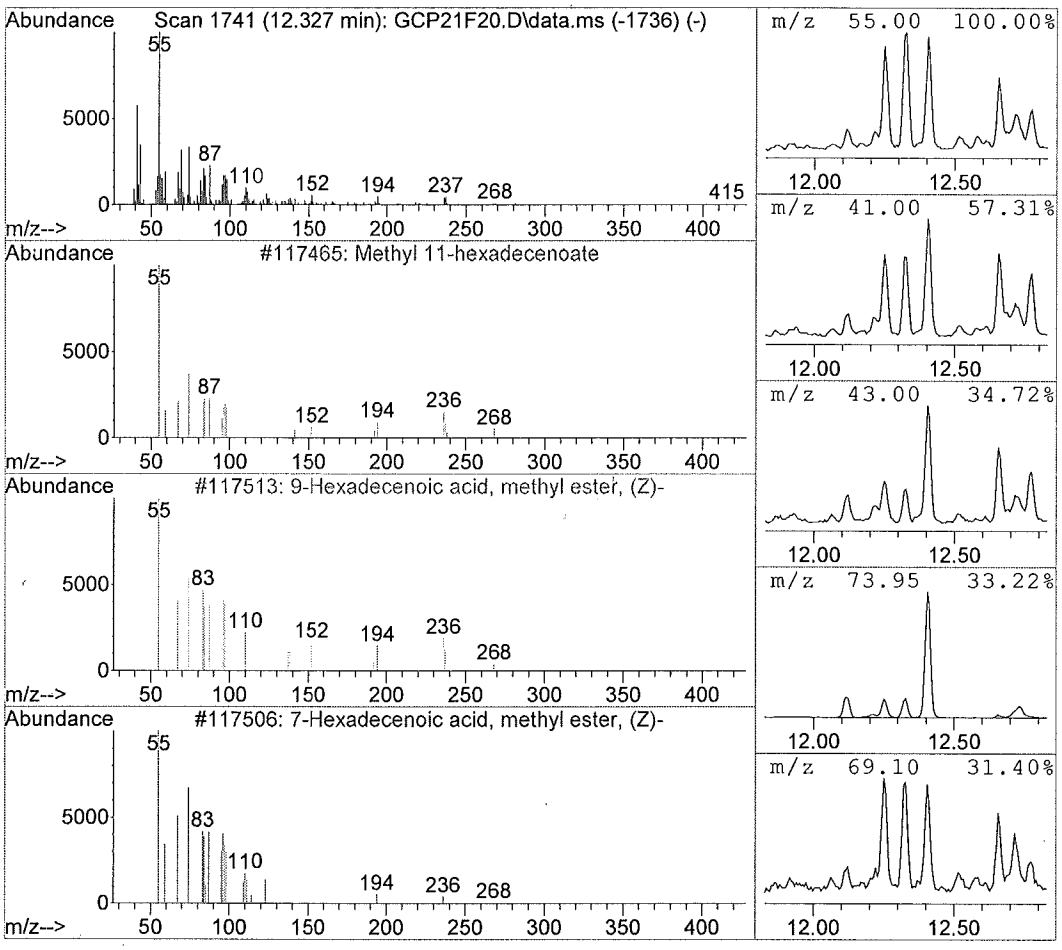
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP21F20.D Vial: 18
Acq On : 07/10/2015 21:26 Operator: TJM
Sample : 1515542020 F9M39 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
12.33	4.20 ug/ml	647050	Phenanthrene-d10	3083007

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Methyl 11-hexadecenoate	117465	1000336-35-5	98.00
2	9-Hexadecenoic acid, methyl ester,	117513	001120-25-8	94.00
3	7-Hexadecenoic acid, methyl ester,	117506	056875-67-3	90.00
4	9-Octadecenoic acid (Z)-, methyl es	141302	000112-62-9	87.00
5	Cyclopropaneoctanoic acid, 2-hexyl-	129412	010152-61-1	80.00



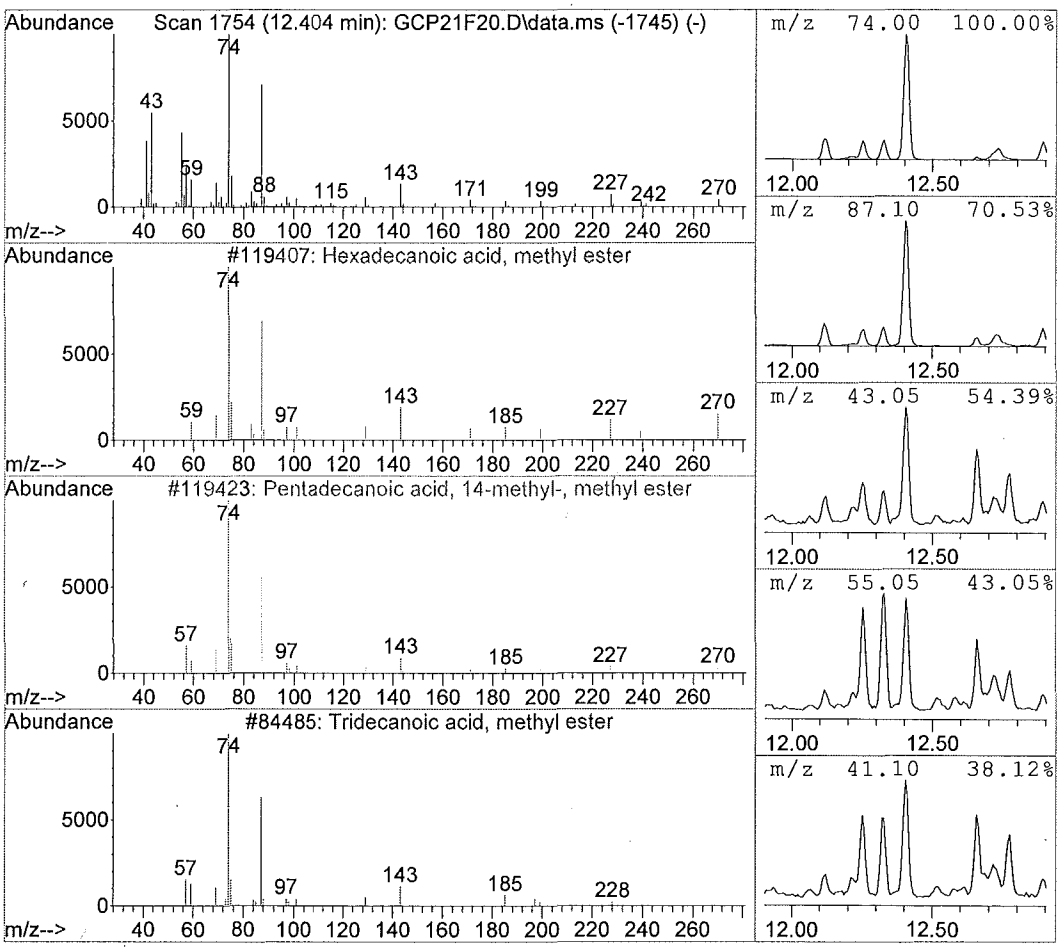
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP21F20.D Vial: 18
Acq On : 07/10/2015 21:26 Operator: TJM
Sample : 1515542020 F9M39 Inst : 5975-G
Misc : . SOIL SOM Injection volume : luL
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	7.44 ug/ml	1146381	Phenanthrene-d10	3083007

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanoic acid, methyl ester	119407	000112-39-0	97.00
2	Pentadecanoic acid, 14-methyl-, met	119423	005129-60-2	97.00
3	Tridecanoic acid, methyl ester	84485	001731-88-0	90.00
4	Methyl tetradecanoate	95859	000124-10-7	90.00
5	Dodecanoic acid, methyl ester	72688	000111-82-0	90.00



Library Search Compound Report

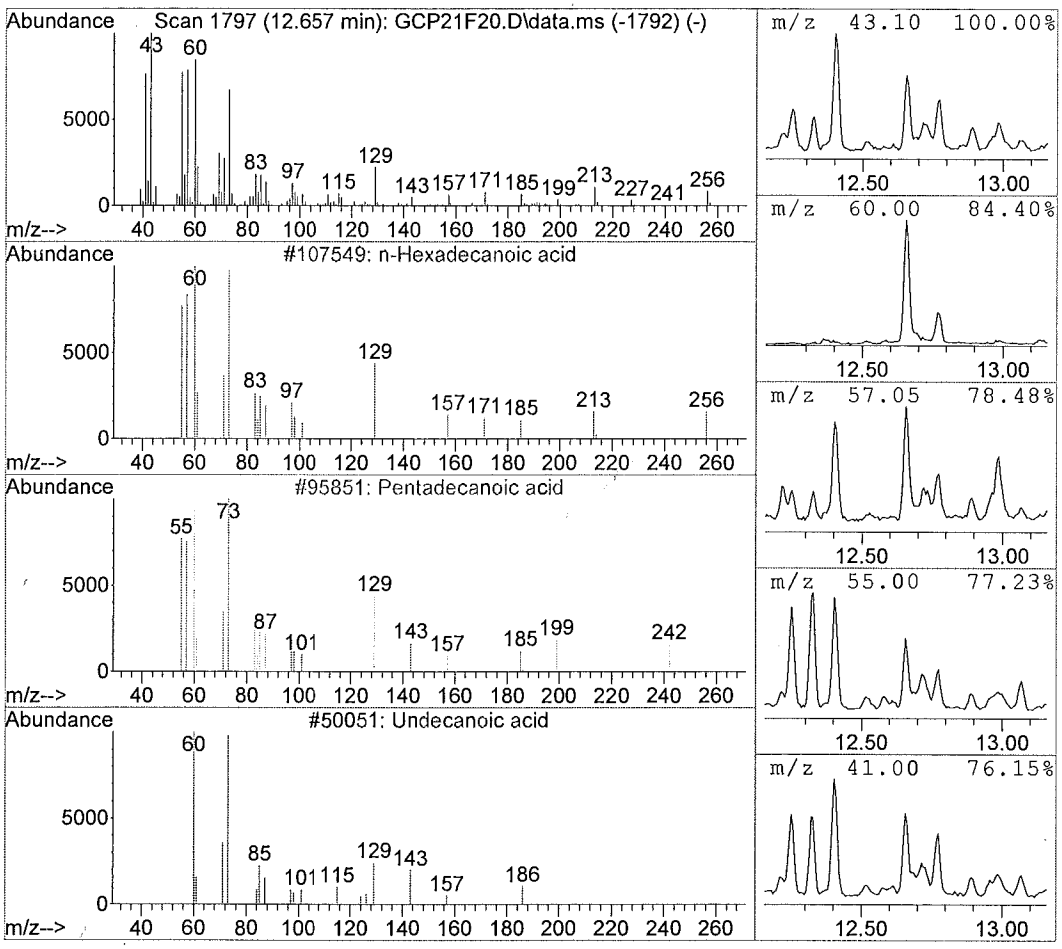
Data File : R:\G\2015\JUL15\10JUL15\GCP21F20.D
Acq On : 07/10/2015 21:26
Sample : 1515542020 F9M39
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 18
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	5.12 ug/ml	789519	Phenanthrene-d10	3083007

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	n-Hexadecanoic acid	107549	000057-10-3	99.00
2	Pentadecanoic acid	95851	001002-84-2	86.00
3	Undecanoic acid	50051	000112-37-8	72.00
4	i-Propyl 14-methyl-pentadecanoate	143170	1000336-62-4	38.00
5	Butanoic acid	2016	000107-92-6	38.00



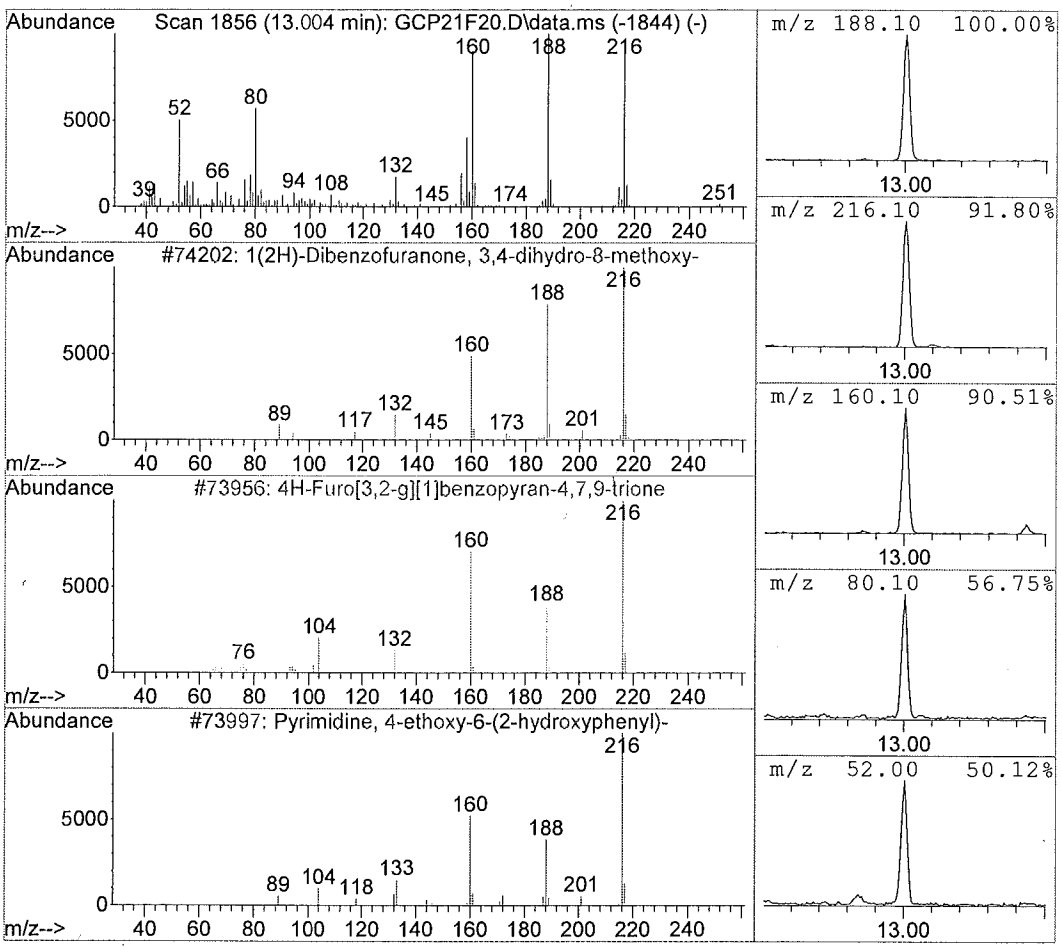
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP21F20.D Vial: 18
Acq On : 07/10/2015 21:26 Operator: TJM
Sample : 1515542020 F9M39 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	5.02 ug/ml	774540	Phenanthrene-d10	3083007

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1(2H)-Dibenzofuranone, 3,4-dihydro-	74202	095338-40-2	30.00
2	4H-Furo[3,2-g][1]benzopyran-4,7,9-t	73956	000483-36-3	30.00
3	Pyrimidine, 4-ethoxy-6-(2-hydroxyph	73997	097630-78-9	27.00
4	Phenanthrene-D10	51752	001517-22-2	22.00
5	1,3-Benzodioxole, 5-(2-cyclohexenon	74200	042866-84-2	22.00



Library Search Compound Report

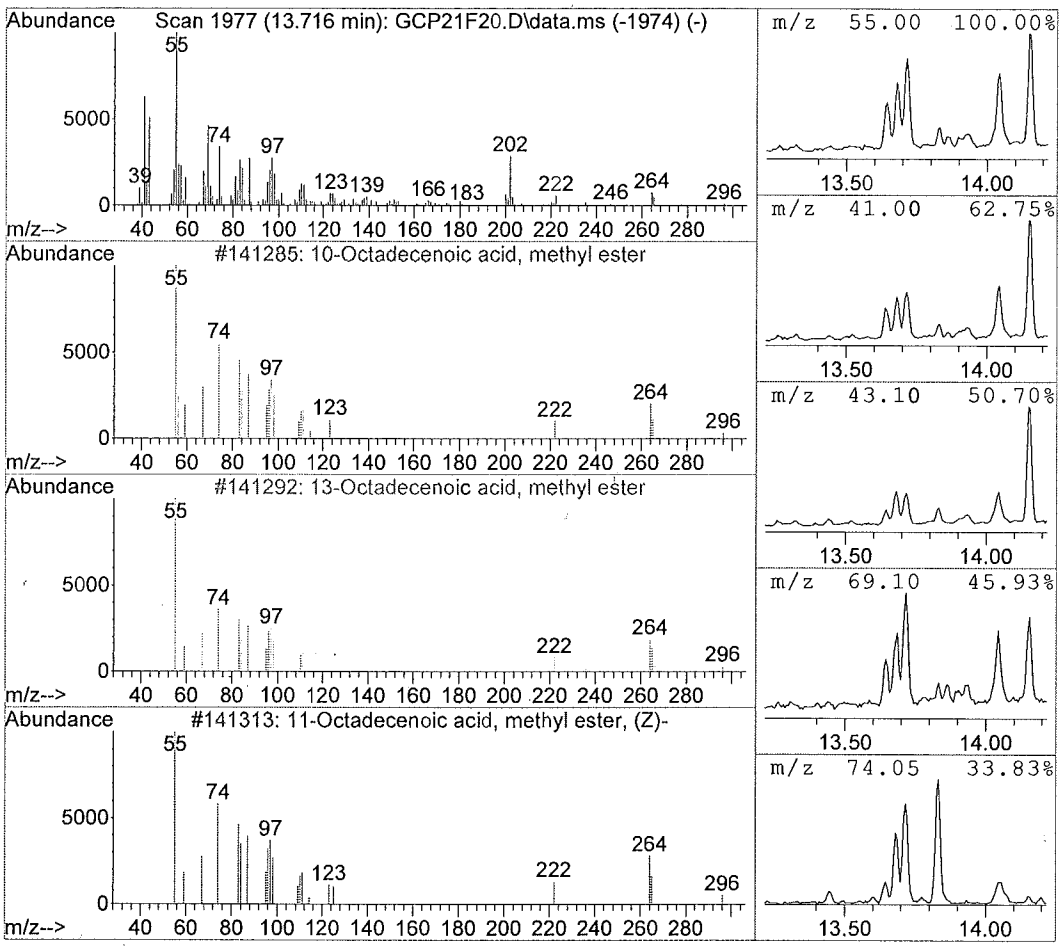
Data File : R:\G\2015\JUL15\10JUL15\GCP21F20.D
Acq On : 07/10/2015 21:26
Sample : 1515542020 F9M39
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 18
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	4.17 ug/ml	696616	Chrysene-d12	3344148

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	10-Octadecenoic acid, methyl ester	141285	013481-95-3	99.00
2	13-Octadecenoic acid, methyl ester	141292	056554-47-3	95.00
3	11-Octadecenoic acid, methyl ester,	141313	001937-63-9	93.00
4	8-Octadecenoic acid, methyl ester	141273	002345-29-1	91.00
5	11-Octadecenoic acid, methyl ester	141290	052380-33-3	87.00



Library Search Compound Report

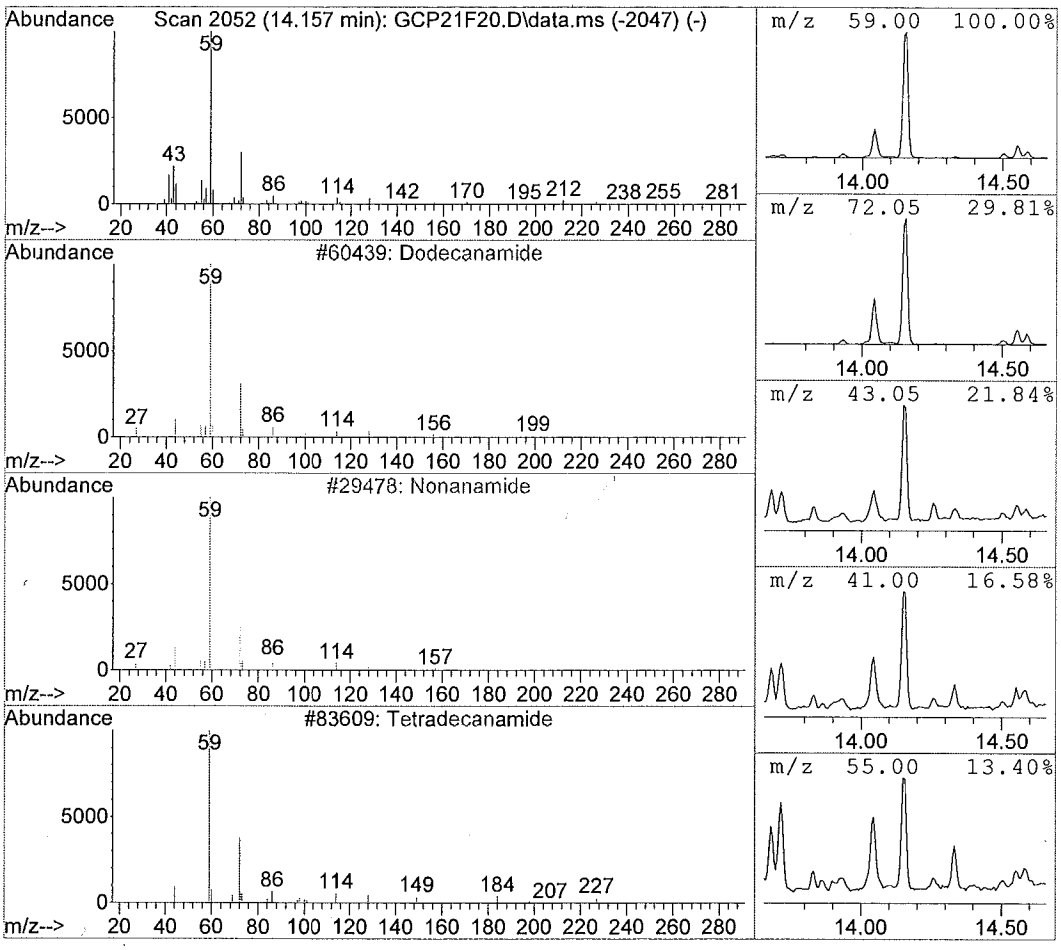
Data File : R:\G\2015\JUL15\10JUL15\GCP21F20.D
Acq On : 07/10/2015 21:26
Sample : 1515542020 F9M39
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 18
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
14.16	11.04 ug/ml	1846577	Chrysene-d12	3344148

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	Tetradecanamide	83609	000638-58-4	78.00
4	Undecanamide, 11-bromo-	112862	005875-26-3	78.00
5	Decanamide-	38977	002319-29-1	74.00



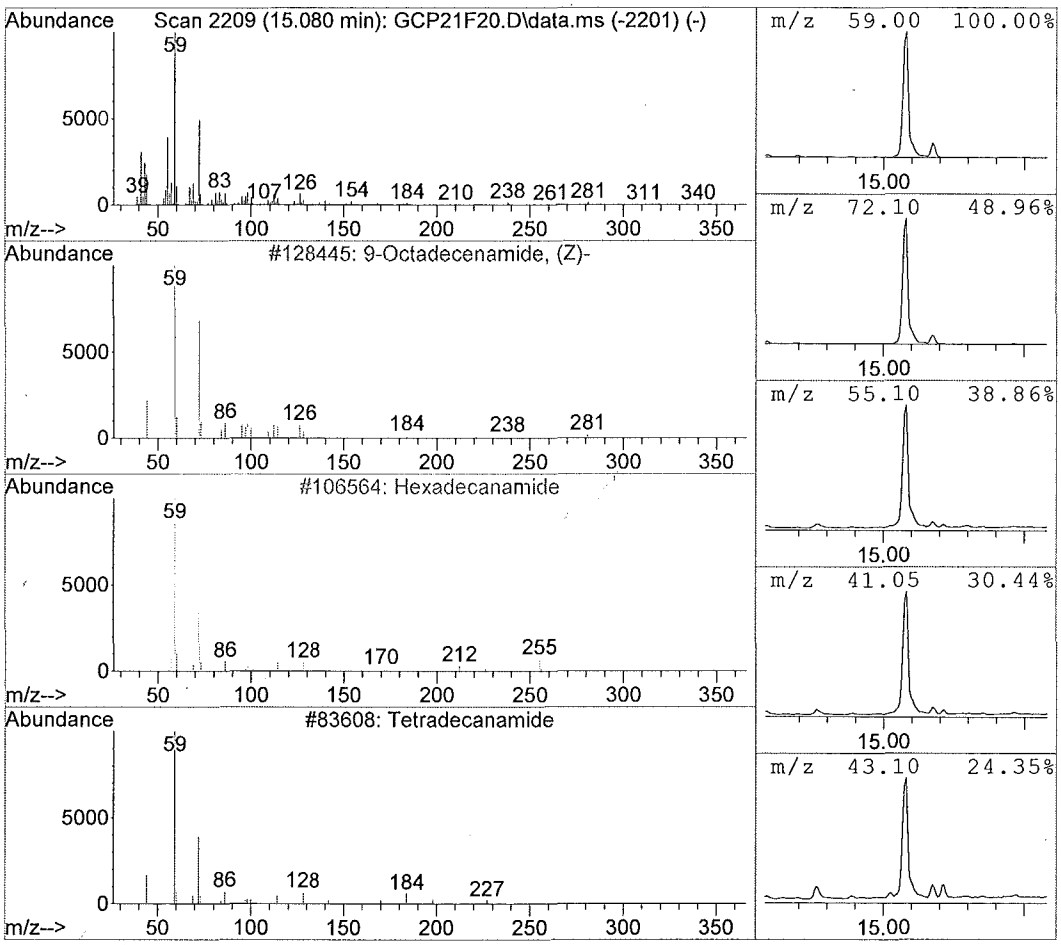
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP21F20.D Vial: 18
Acq On : 07/10/2015 21:26 Operator: TJM
Sample : 1515542020 F9M39 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
15.08	65.35 ug/ml	10926383	Chrysene-d12	3344148

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	96.00
2	Hexadecanamide	106564	000629-54-9	56.00
3	Tetradecanamide	83608	000638-58-4	56.00
4	Octanamide	20317	000629-01-6	53.00
5	Undecanamide, 11-bromo-	112862	005875-26-3	50.00



Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP21F20.D
Acq On : 07/10/2015 21:26
Sample : 1515542020 F9M39
Misc : . SOIL SOM
MS Integration Params: rteint.p

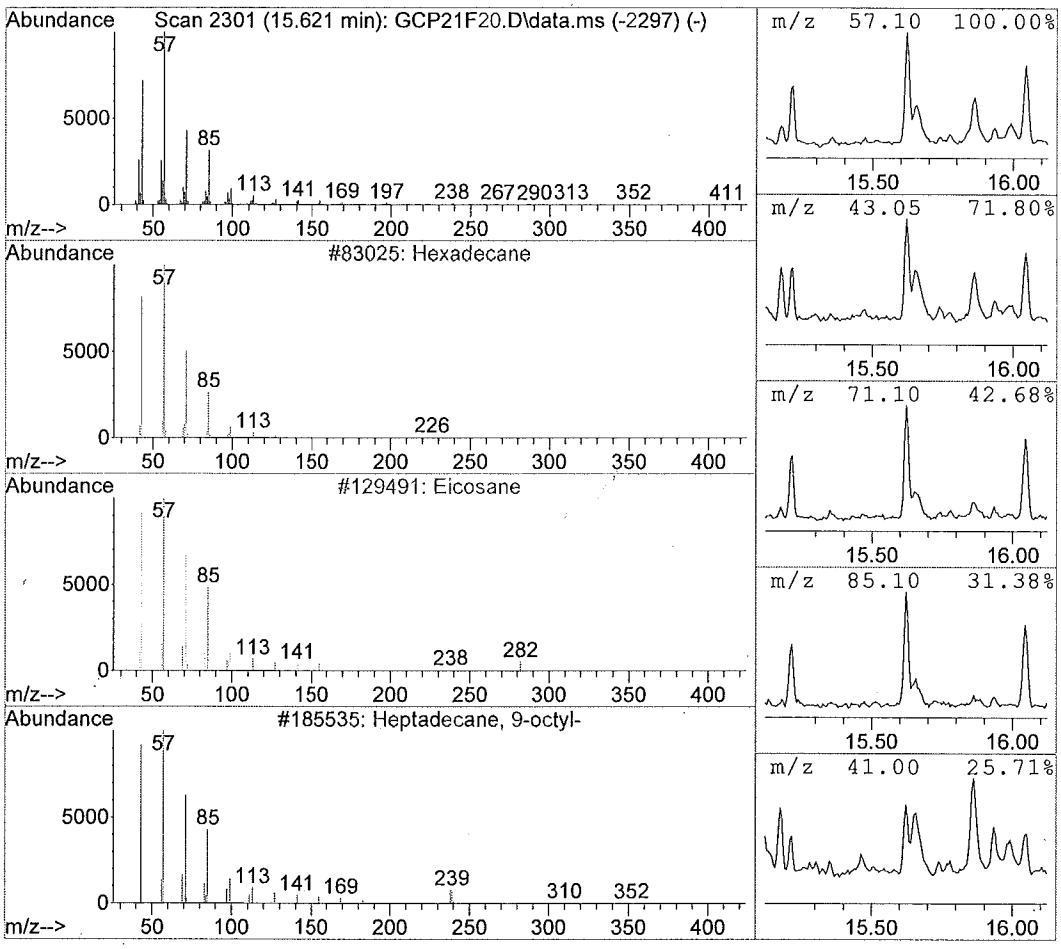
Vial: 18
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

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	3.65 ug/ml	610848	Chrysene-d12	3344148

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecane	83025	000544-76-3	93.00
2	Eicosane	129491	000112-95-8	90.00
3	Heptadecane, 9-octyl-	185535	007225-64-1	87.00
4	Dodecane, 5,8-diethyl-	83038	024251-86-3	87.00
5	3,5-Dimethyldodecane	59888	107770-99-0	87.00

SCA



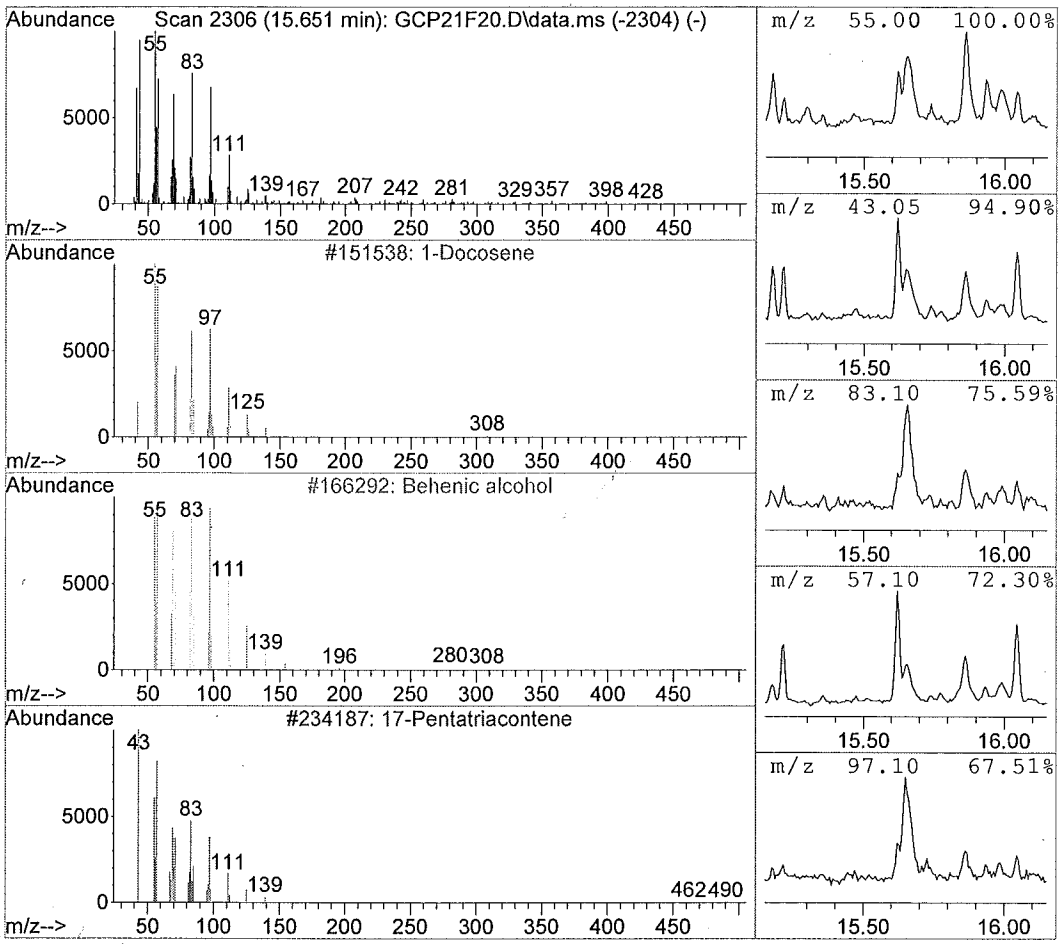
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP21F20.D Vial: 18
Acq On : 07/10/2015 21:26 Operator: TJM
Sample : 1515542020 F9M39 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
15.65	4.20 ug/ml	702446	Chrysene-d12	3344148

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Docosene	151538	001599-67-3	83.00
2	Behenic alcohol	166292	000661-19-8	80.00
3	17-Pentatriacontene	234187	006971-40-0	80.00
4	5-Eicosene, (E)-	127769	074685-30-6	64.00
5	Cyclohexane, 1,1'-(2-propyl-1,3-pro	102610	055030-21-2	58.00



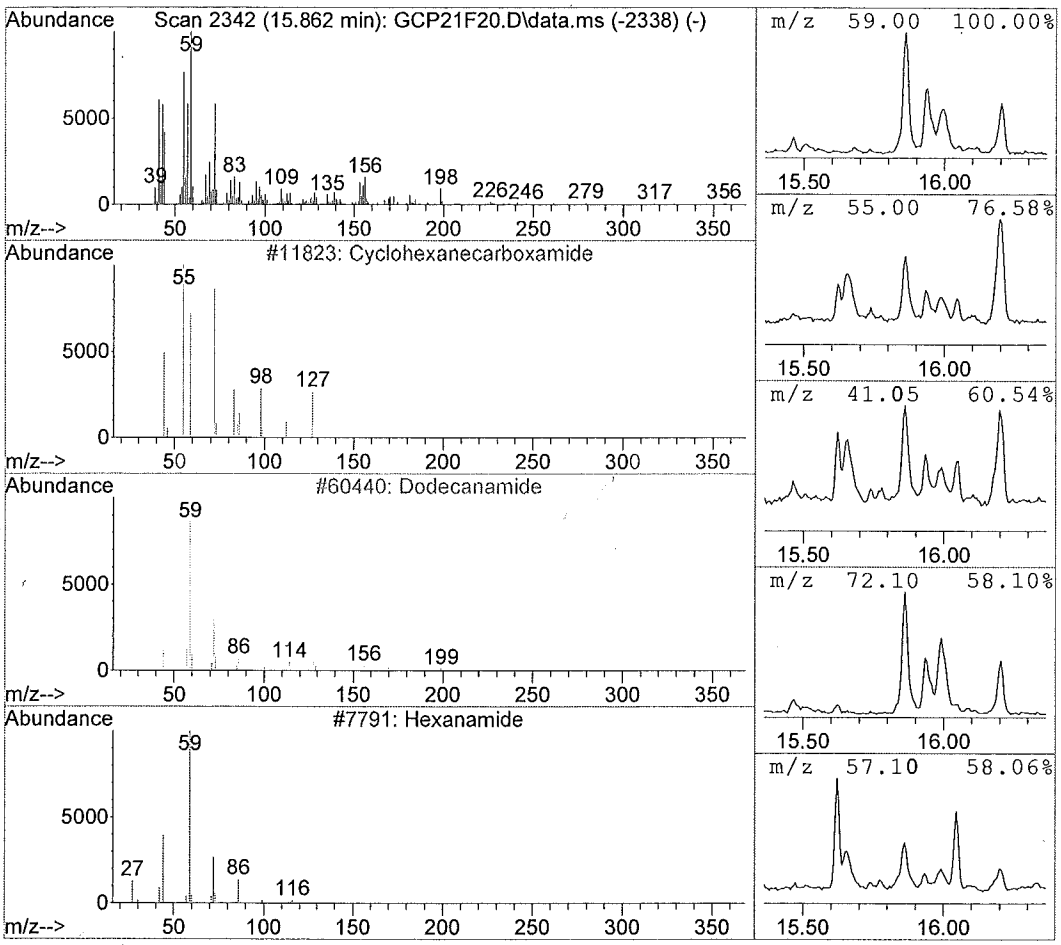
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP21F20.D Vial: 18
Acq On : 07/10/2015 21:26 Operator: TJM
Sample : 1515542020 F9M39 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	5.31 ug/ml	887732	Chrysene-d12	3344148

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexanecarboxamide	11823	001122-56-1	55.00
2	Dodecanamide	60440	001120-16-7	55.00
3	Hexanamide	7791	000628-02-4	52.00
4	N-Methyl-N-methoxycarbonylcarbamic	42015	073830-21-4	50.00
5	7-Nonenamide	28131	090949-53-4	49.00



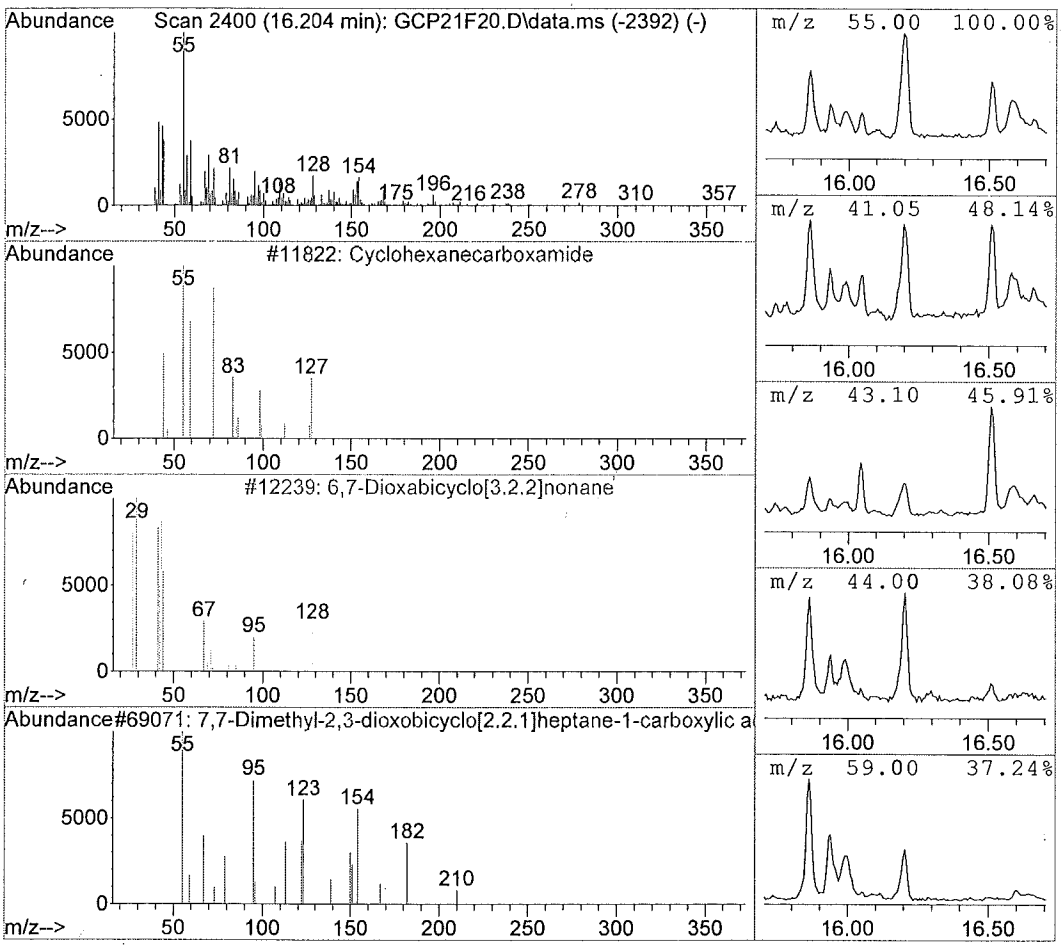
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP21F20.D Vial: 18
Acq On : 07/10/2015 21:26 Operator: TJM
Sample : 1515542020 F9M39 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	7.55 ug/ml	1262154	Chrysene-d12	3344148

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexanecarboxamide	11822	001122-56-1	32.00
2	6,7-Dioxabicyclo[3.2.2]nonane	12239	000283-35-2	30.00
3	7,7-Dimethyl-2,3-dioxobicyclo[2.2.1	69071	040724-68-3	20.00
4	Propanoic acid, 2,3-dibromo-	86285	000600-05-5	12.00
5	N,N'-Hexamethylenebisacetamide	60889	003073-59-4	10.00



Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP21F20.D
Acq On : 07/10/2015 21:26
Sample : 1515542020 F9M39
Misc : . SOIL SOM
MS Integration Params: rteint.p

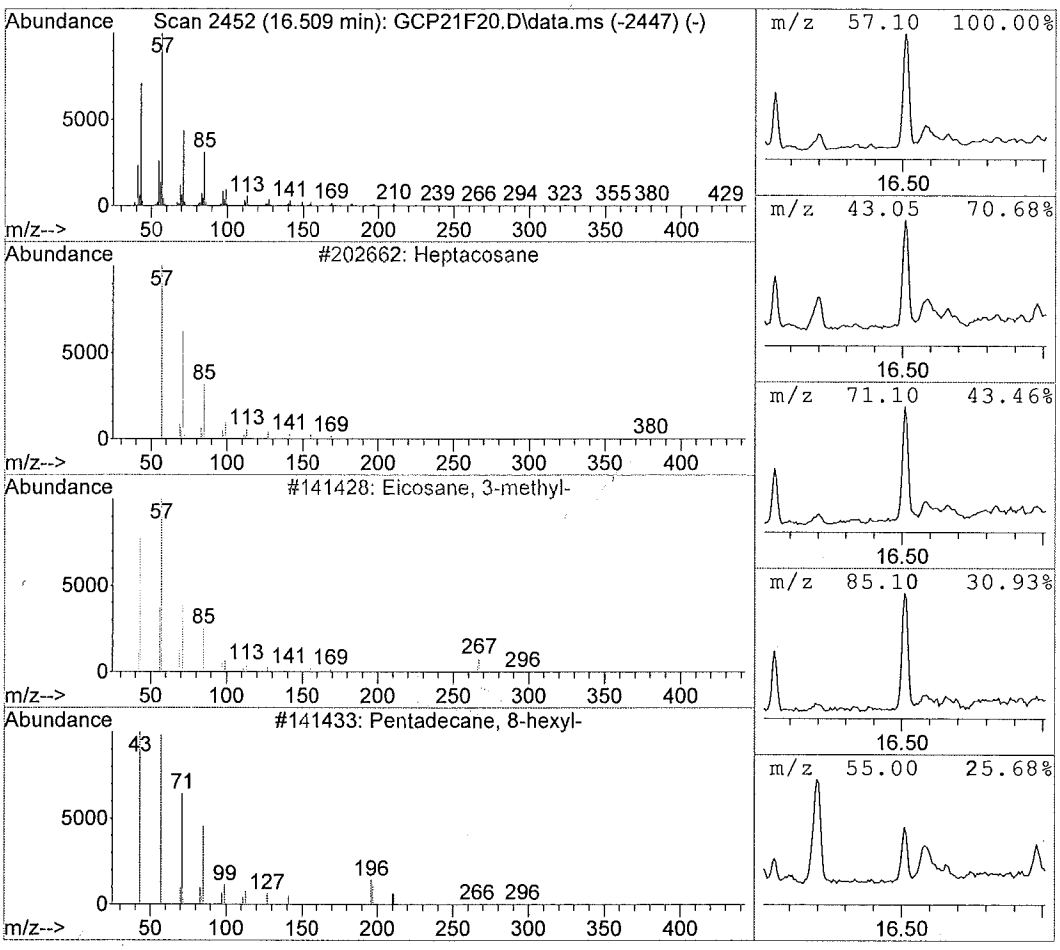
Vial: 18
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

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	6.34 ug/ml	1059358	Chrysene-d12	3344148

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptacosane	202662	000593-49-7	98.00
2	Eicosane, 3-methyl-	141428	006418-46-8	93.00
3	Pentadecane, 8-hexyl-	141433	013475-75-7	91.00
4	Eicosane, 10-methyl-	141431	054833-23-7	91.00
5	Hexadecane, 5-butyl-	129495	006912-07-8	90.00

SCA



Library Search Compound Report

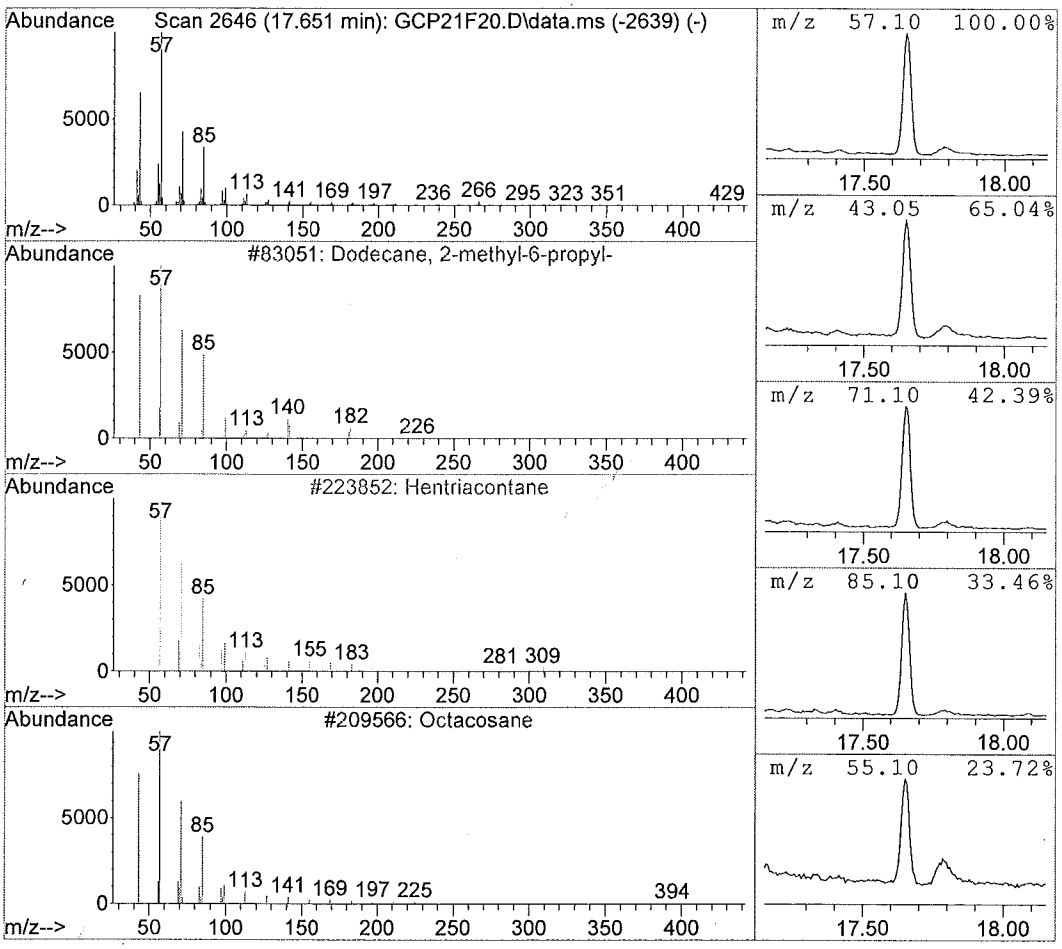
Data File : R:\G\2015\JUL15\10JUL15\GCP21F20.D Vial: 18
Acq On : 07/10/2015 21:26 Operator: TJM
Sample : 1515542020 F9M39 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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	25.52 ug/ml	2678146	Perylene-d12	2099006

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecane, 2-methyl-6-propyl-	83051	055045-08-4	90.00
2	Hentriacontane	223852	000630-04-6	87.00
3	Octacosane	209566	000630-02-4	87.00
4	Heptacosane	202661	000593-49-7	87.00
5	Tetratetracontane	241528	007098-22-8	87.00

3A



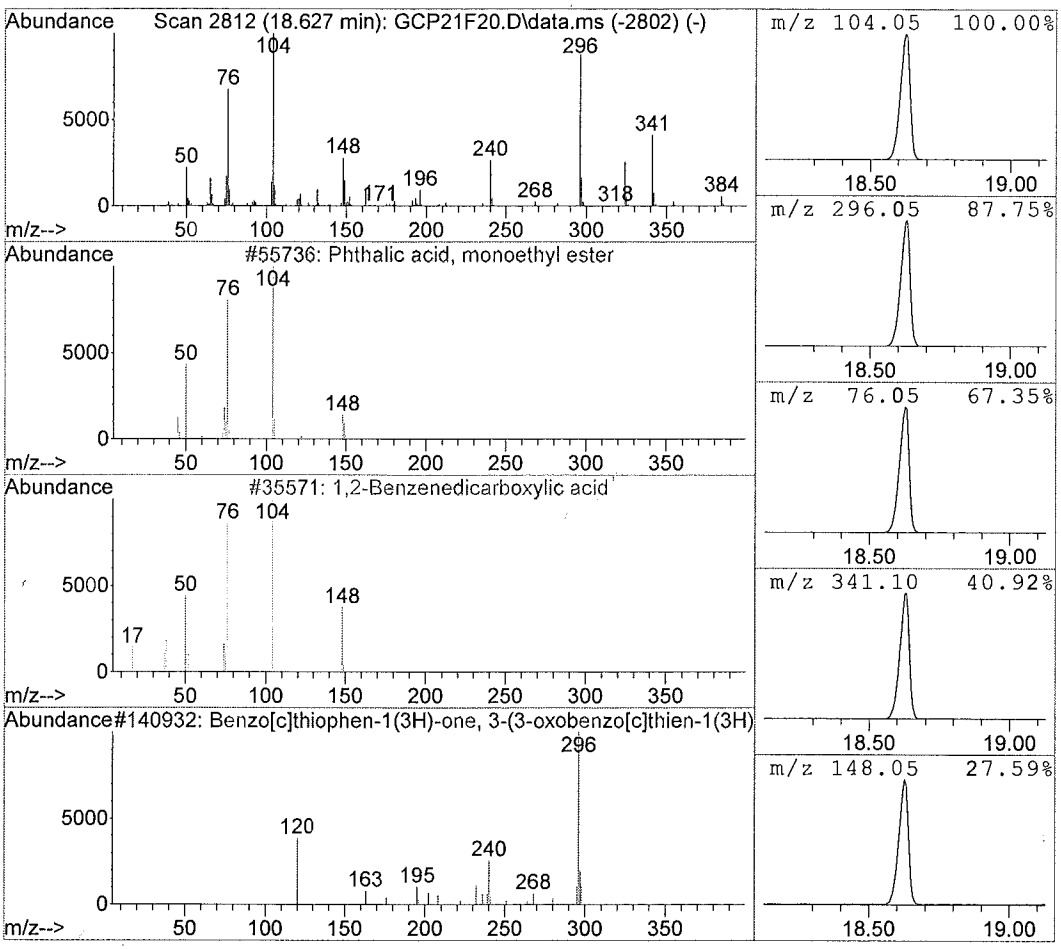
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP21F20.D Vial: 18
Acq On : 07/10/2015 21:26 Operator: TJM
Sample : 1515542020 F9M39 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
18.63	57.02 ug/ml	5984689	Perylene-d12	2099006

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic acid, monoethyl ester	55736	002306-33-4	27.00
2	1,2-Benzenedicarboxylic acid	35571	000088-99-3	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	Phthalic anhydride	23153	000085-44-9	16.00



Library Search Compound Report

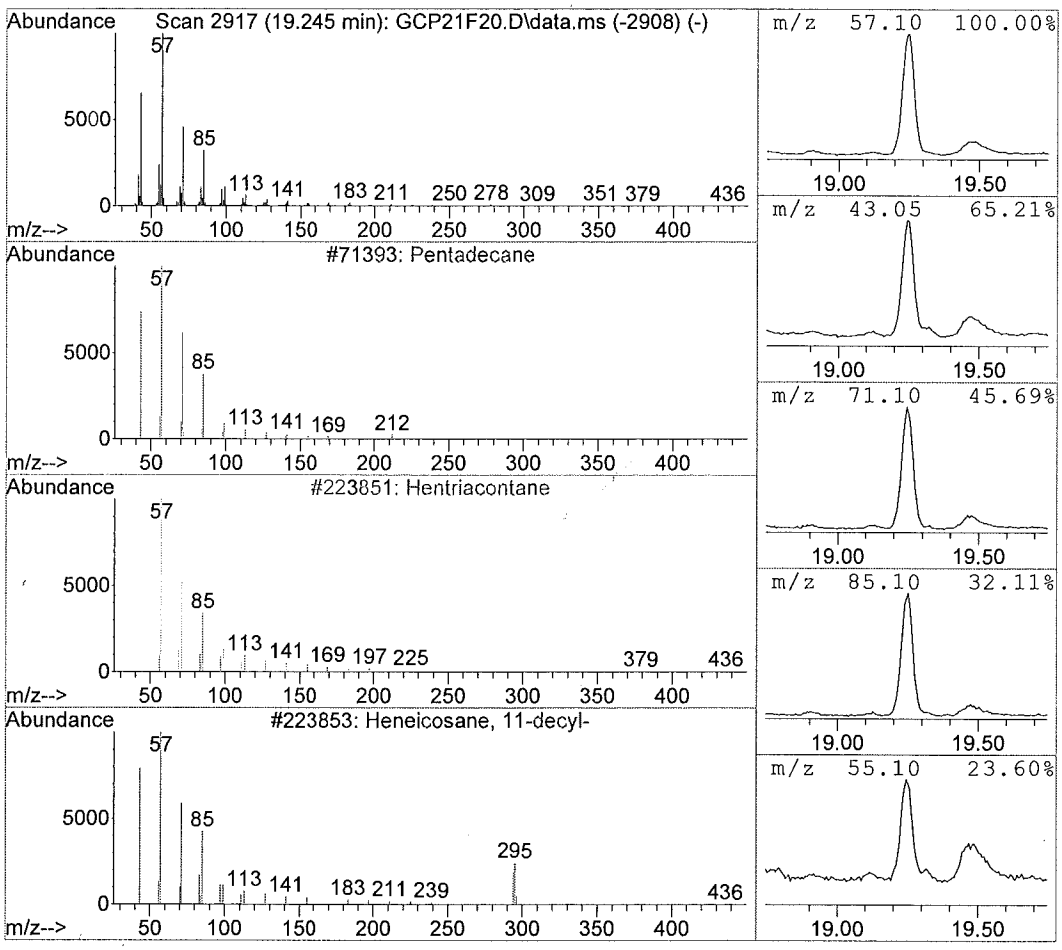
Data File : R:\G\2015\JUL15\10JUL15\GCP21F20.D Vial: 18
Acq On : 07/10/2015 21:26 Operator: TJM
Sample : 1515542020 F9M39 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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	25.45 ug/ml	2670922	Perylene-d12	2099006

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentadecane	71393	000629-62-9	94.00
2	Hentriacontane	223851	000630-04-6	93.00
3	Heneicosane, 11-decyl-	223853	055320-06-4	93.00
4	Pentadecane, 8-hexyl-	141433	013475-75-7	91.00
5	Heneicosane, 11-(1-ethylpropyl)-	194508	055282-11-6	87.00

SCA



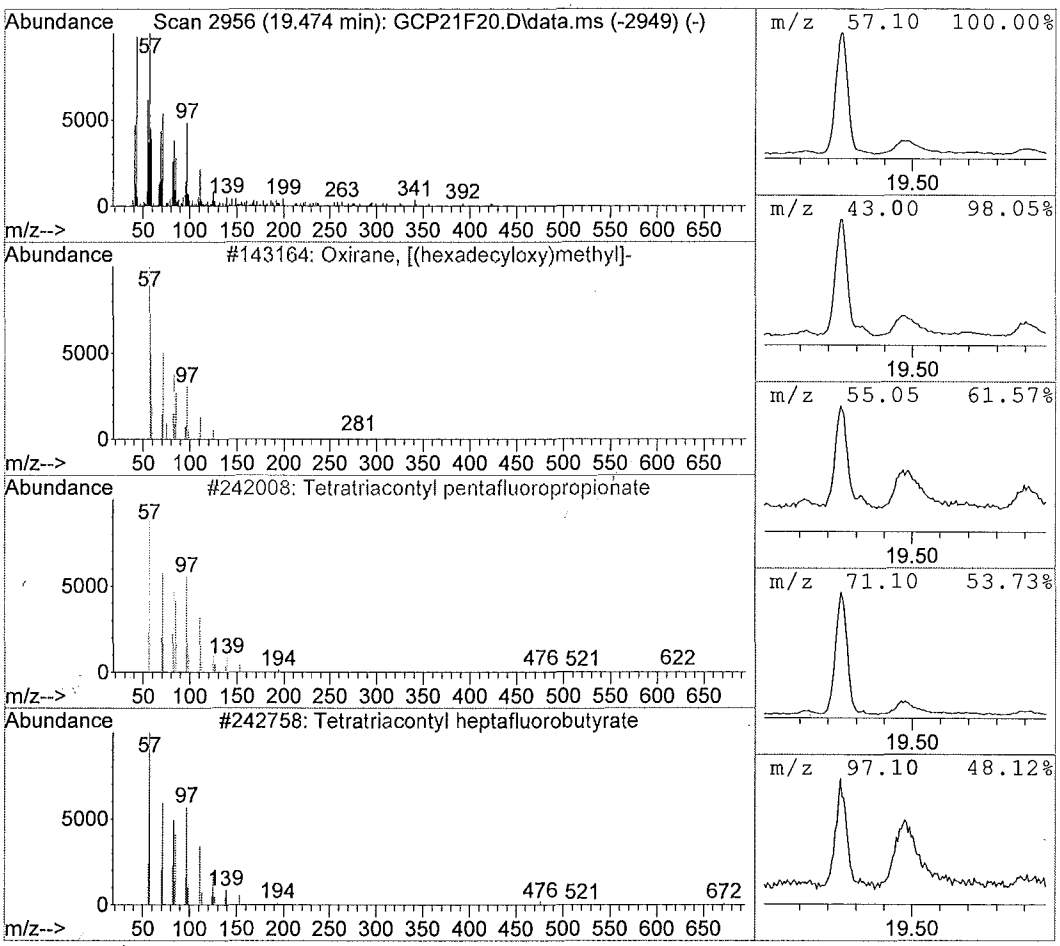
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP21F20.D Vial: 18
Acq On : 07/10/2015 21:26 Operator: TJM
Sample : 1515542020 F9M39 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
19.47	9.04 ug/ml	949160	Perylene-d12	2099006

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Oxirane, [(hexadecyloxy)methyl]-	143164	015965-99-8	52.00
2	Tetratriacontyl pentafluoropropiona	242008	1000351-81-5	49.00
3	Tetratriacontyl heptafluorobutyrate	242758	1000351-84-1	49.00
4	Dotriacontyl pentafluoropropionate	241397	1000351-81-4	43.00
5	1,3-Cyclohexanediamine	7341	003385-21-5	42.00



Library Search Compound Report

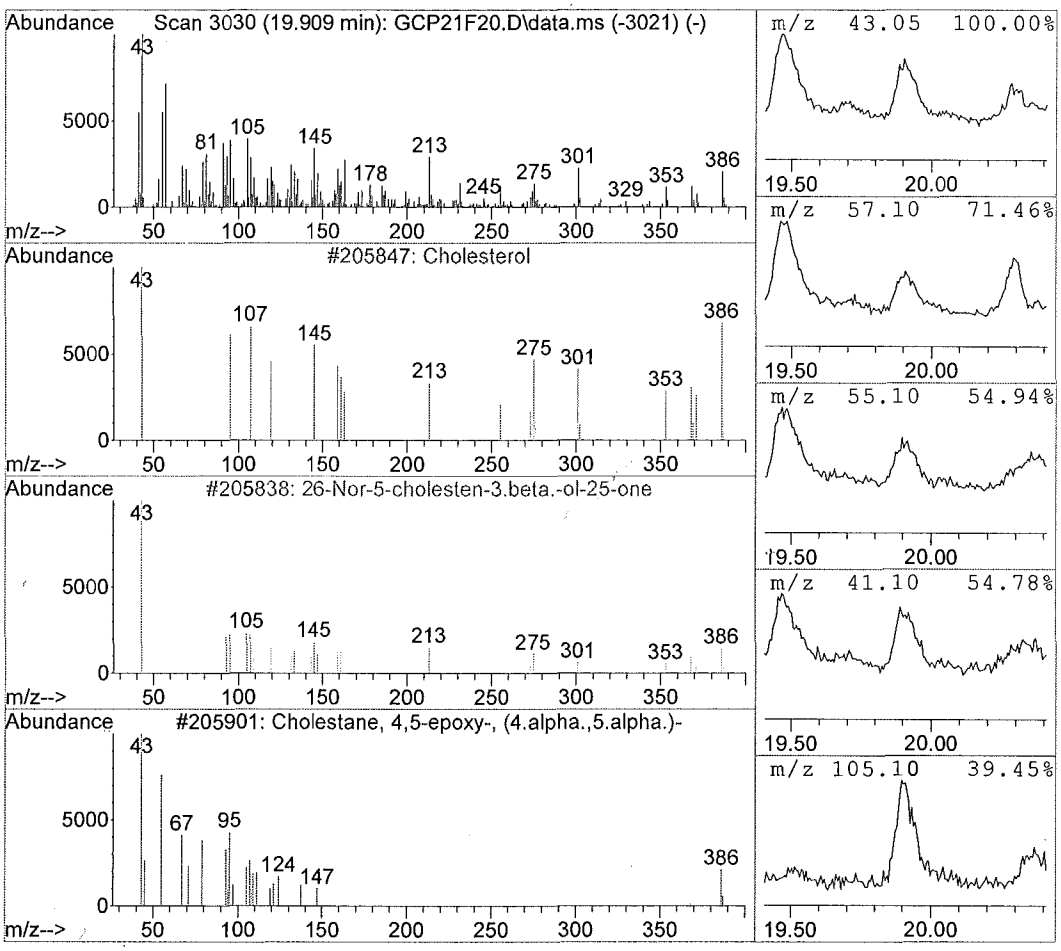
Data File : R:\G\2015\JUL15\10JUL15\GCP21F20.D
Acq On : 07/10/2015 21:26
Sample : 1515542020 F9M39
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 18
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
19.91	10.07 ug/ml	1056954	Perylene-d12	2099006

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cholesterol	205847	000057-88-5	95.00
2	26-Nor-5-cholesten-3.beta.-ol-25-on	205838	007494-34-0	94.00
3	Cholestane, 4,5-epoxy-, (4.alpha.,5	205901	006079-19-2	46.00
4	17-(1,5-Dimethylhexyl)-10,13-dimeth	205911	1000210-38-4	41.00
5	Cholestane-3,5-diol, 5-acetate, (3.	226471	041721-93-1	37.00



Library Search Compound Report

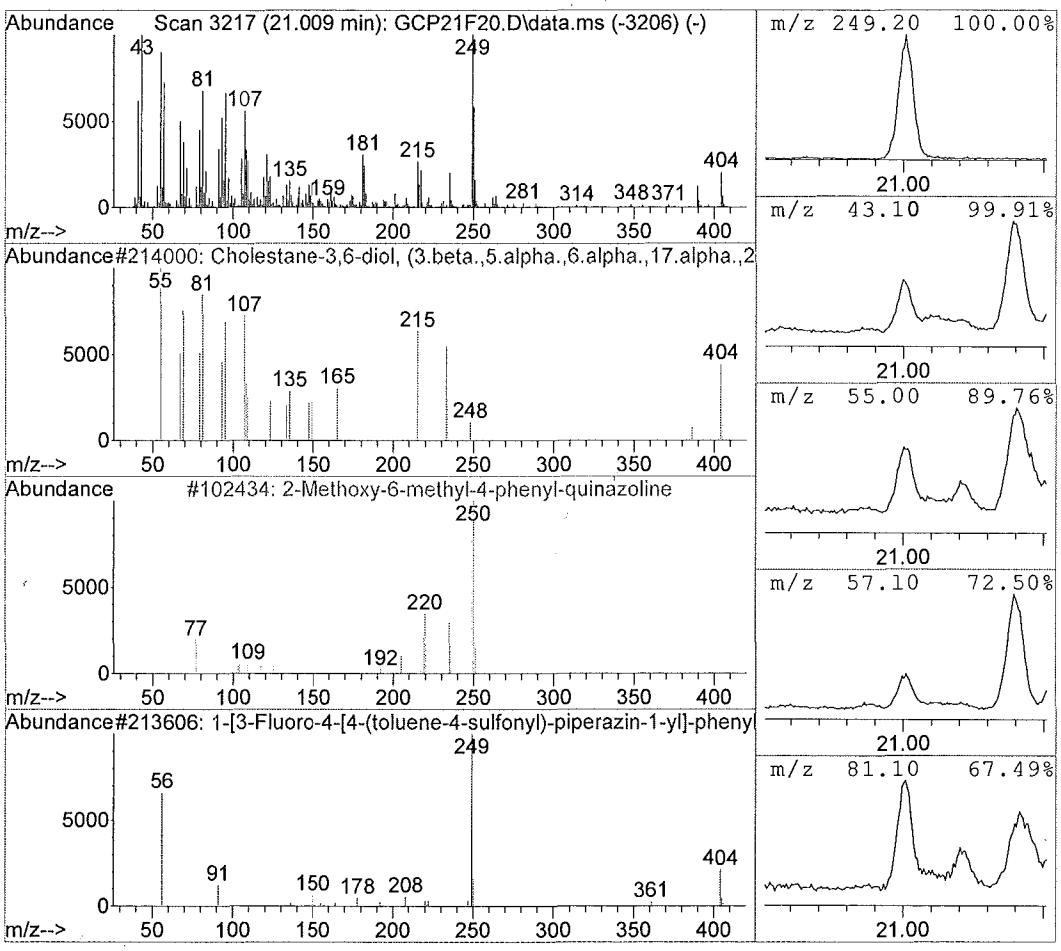
Data File : R:\G\2015\JUL15\10JUL15\GCP21F20.D
Acq On : 07/10/2015 21:26
Sample : 1515542020 F9M39
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 18
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
21.01	25.81 ug/ml	2708918	Perylene-d12	2099006

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cholestane-3,6-diol, (3.beta.,5.alp	214000	041083-77-6	70.00
2	2-Methoxy-6-methyl-4-phenyl-quinazo	102434	1000317-63-5	30.00
3	1-[3-Fluoro-4-[4-(toluene-4-sulfony	213606	333751-65-8	30.00
4	2-Methylphenanthro[3,4-d][1,3]oxazo	101514	098033-24-0	27.00
5	Benzene, 1-nitro-2-hydroxy-4-(p-flu	101252	189214-56-0	22.00



Library Search Compound Report

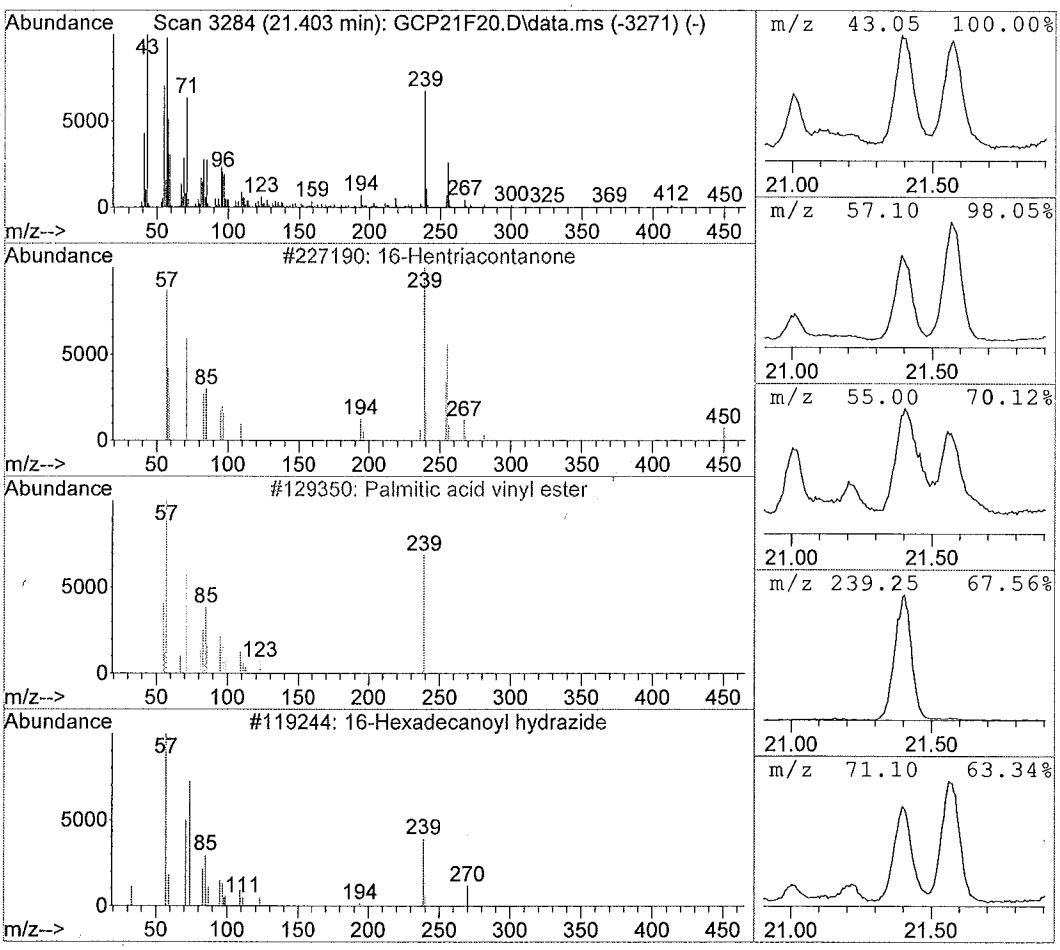
Data File : R:\G\2015\JUL15\10JUL15\GCP21F20.D
Acq On : 07/10/2015 21:26
Sample : 1515542020 F9M39
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 18
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
21.40	43.31 ug/ml	4544972	Perylene-d12	2099006

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	16-Hentriacontanone	227190	000502-73-8	86.00
2	Palmitic acid vinyl ester	129350	000693-38-9	43.00
3	16-Hexadecanoyl hydrazide	119244	002619-88-7	38.00
4	Hexadecanal, 2-methyl-	105861	055019-46-0	27.00
5	2-Nonadecanone	129460	000629-66-3	22.00



: 00514

Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP21F20.D
Acq On : 07/10/2015 21:26
Sample : 1515542020 F9M39
Misc : . SOIL SOM
MS Integration Params: rteint.p

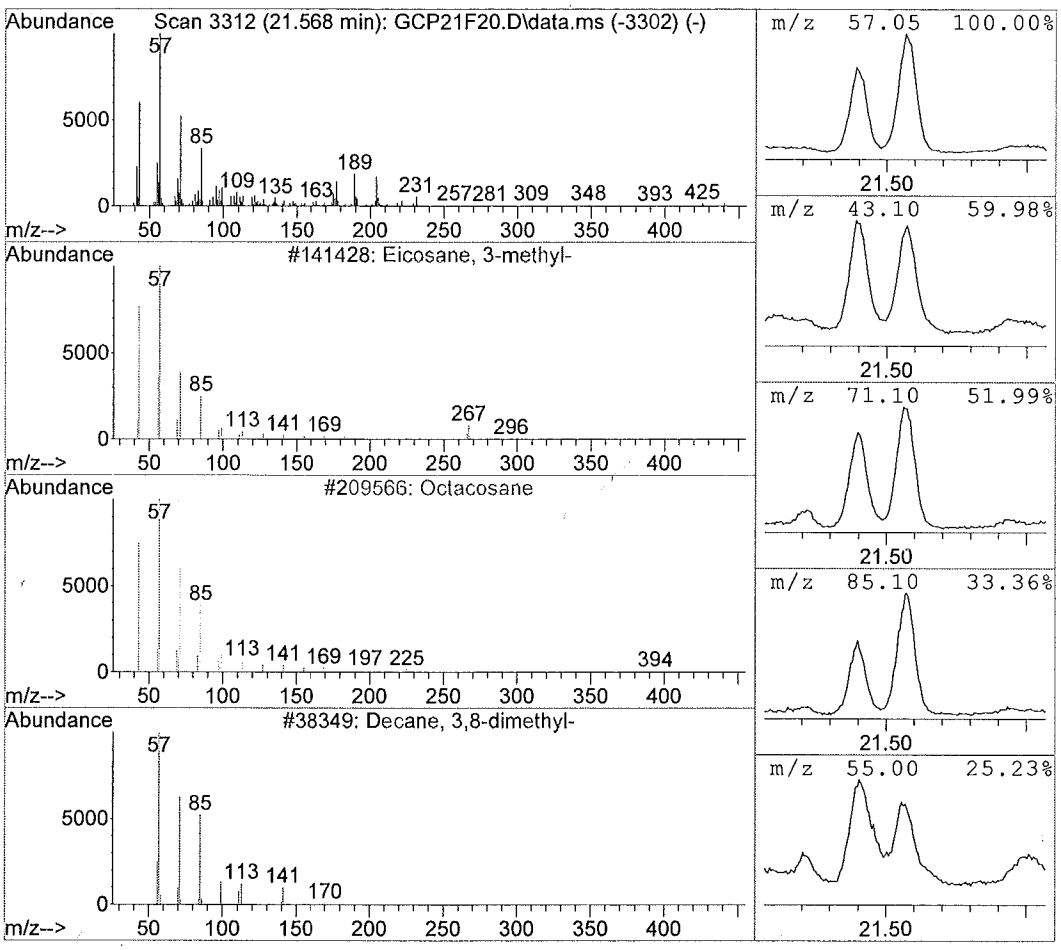
Vial: 18
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

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
21.57	44.60 ug/ml	4680675	Perylene-d12	2099006

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Eicosane, 3-methyl-	141428	006418-46-8	60.00
2	Octacosane	209566	000630-02-4	60.00
3	Decane, 3,8-dimethyl-	38349	017312-55-9	55.00
4	Pentacosane	185533	000629-99-2	53.00
5	Octadecane, 5,14-dibutyl-	194506	055282-13-8	53.00

BA



00615

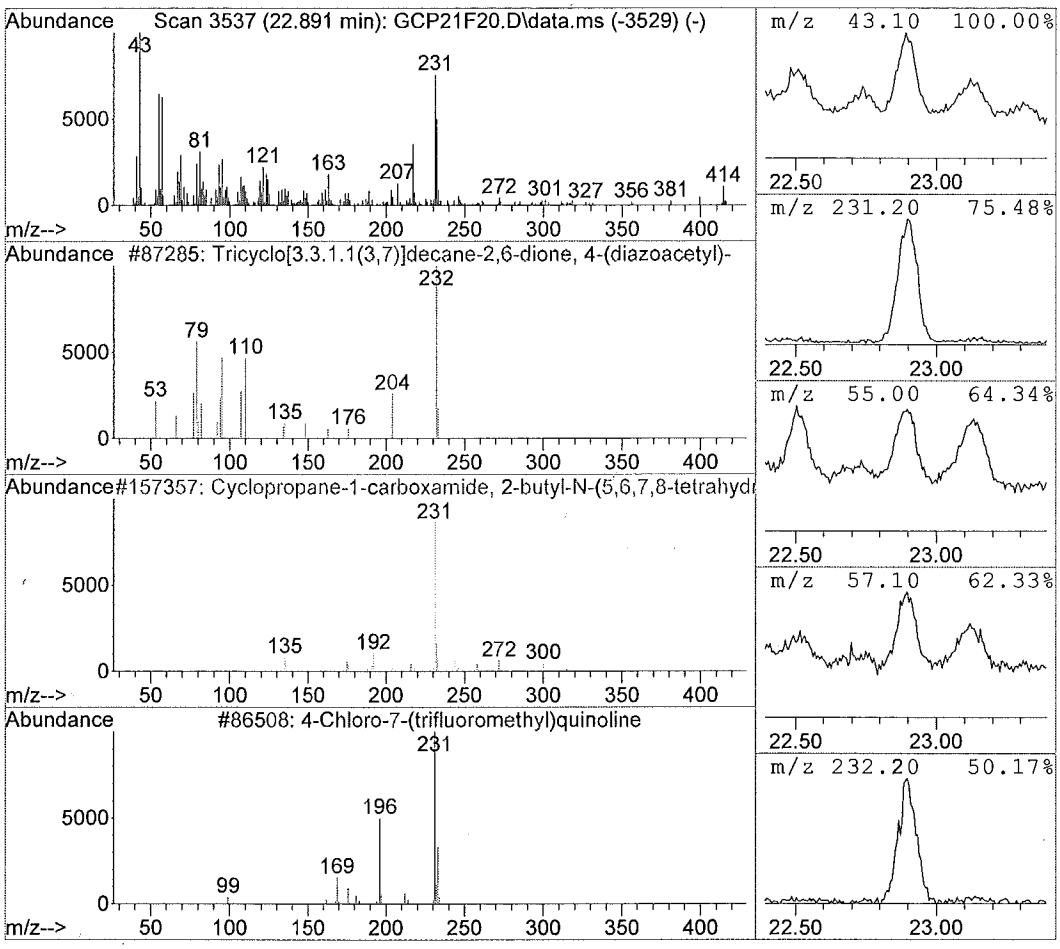
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP21F20.D Vial: 18
Acq On : 07/10/2015 21:26 Operator: TJM
Sample : 1515542020 F9M39 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	11.05 ug/ml	1159520	Perylene-d12	2099006

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tricyclo[3.3.1.1(3,7)]decane-2,6-di	87285	056782-75-3	47.00
2	Cyclopropane-1-carboxamide, 2-butyl	157357	340695-72-9	45.00
3	4-Chloro-7-(trifluoromethyl)quinoli	86508	000346-55-4	38.00
4	Pyrimidine, 2-dimethylamino-4,6-dih	86630	1000261-69-3	35.00
5	Benzene, 1,3,5-tri-tert-butyl-	99271	001460-02-2	35.00



Library Search Compound Report

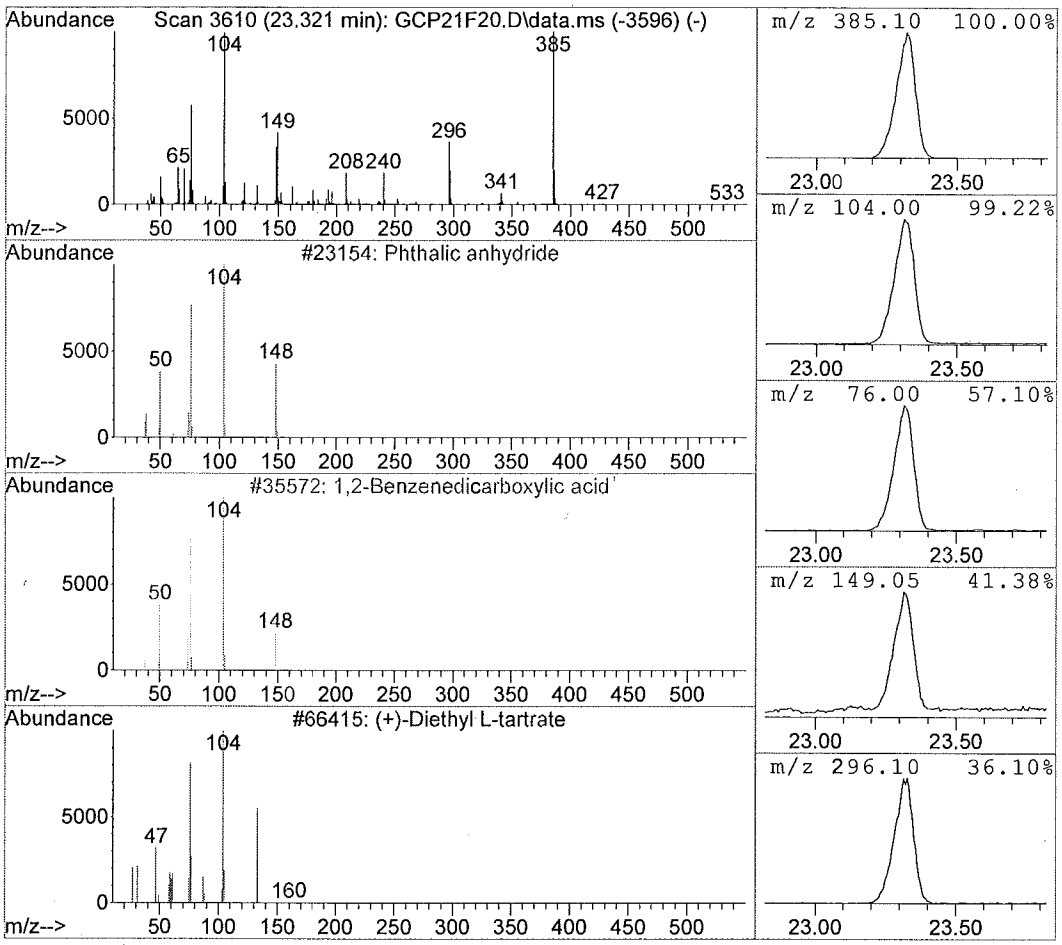
Data File : R:\G\2015\JUL15\10JUL15\GCP21F20.D
Acq On : 07/10/2015 21:26
Sample : 1515542020 F9M39
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 18
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	41.53 ug/ml	4358470	Perylene-d12	2099006

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	(+)-Diethyl L-tartrate	66415	000087-91-2	22.00
4	Bicyclo[4.2.0]octa-1,3,5-triene-7,8	14489	006383-11-5	22.00
5	Xanthine, 1,3-diethyl-8-[4-[[[ethyl	204982	104576-48-9	14.00



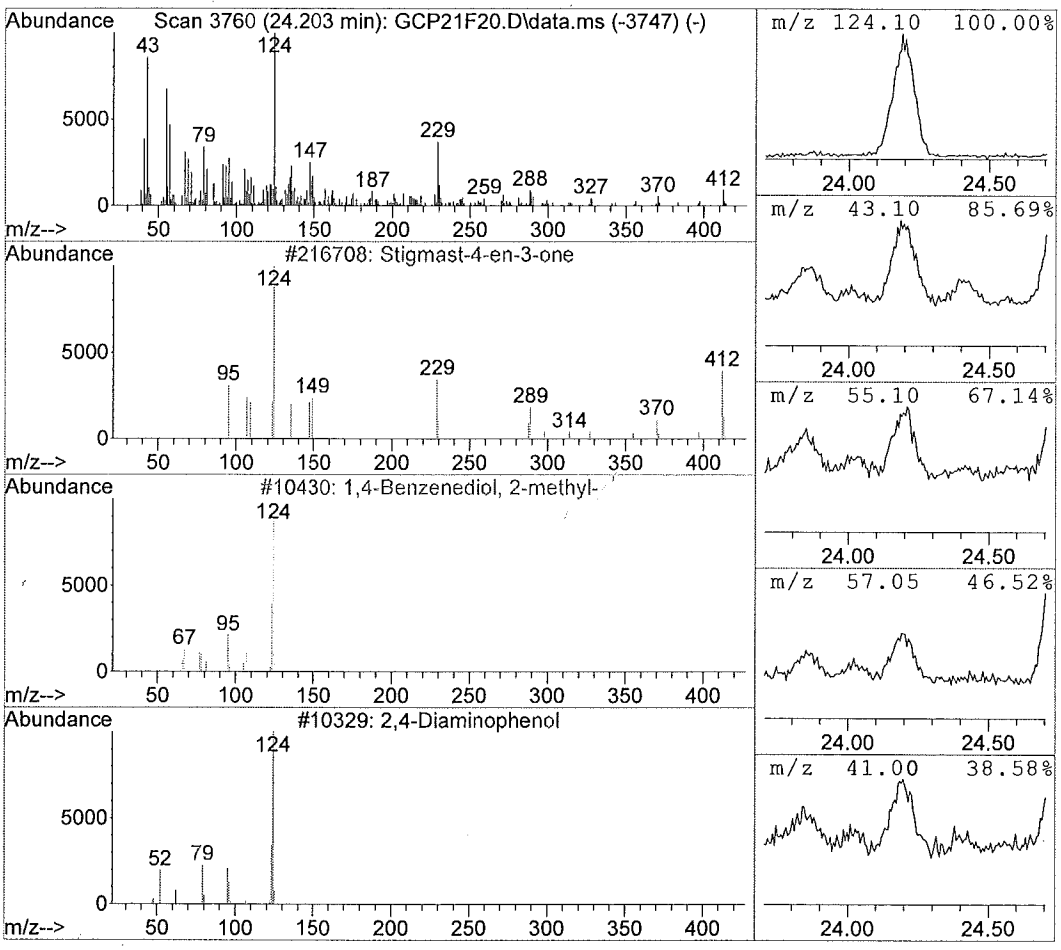
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP21F20.D Vial: 18
Acq On : 07/10/2015 21:26 Operator: TJM
Sample : 1515542020 F9M39 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
24.20	10.87 ug/ml	1140336	Perylene-d12	2099006

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Stigmast-4-en-3-one	216708	001058-61-3	91.00
2	1,4-Benzenediol, 2-methyl-	10430	000095-71-6	46.00
3	2,4-Diaminophenol	10329	000095-86-3	46.00
4	2,3-Diaminophenol	10327	059649-56-8	46.00
5	Testosterone	134627	000058-22-0	46.00



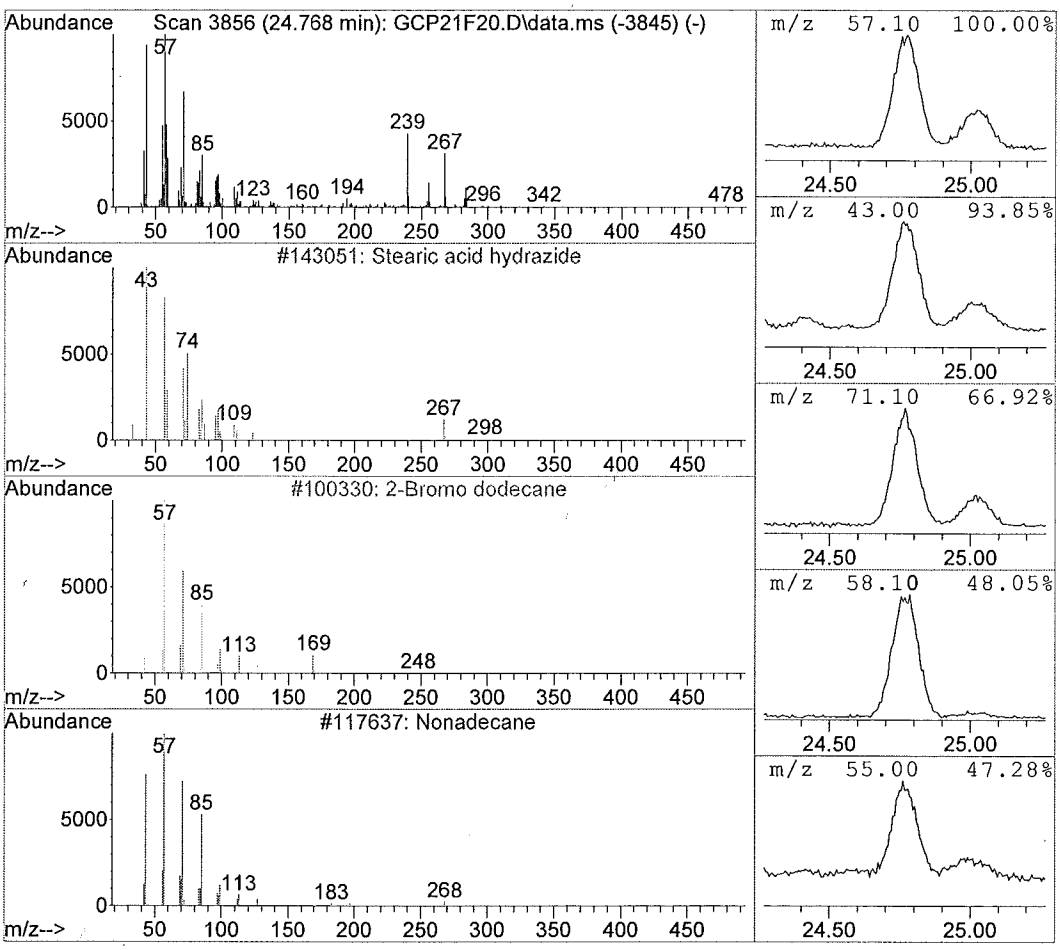
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP21F20.D Vial: 18
Acq On : 07/10/2015 21:26 Operator: TJM
Sample : 1515542020 F9M39 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
24.77	24.50 ug/ml	2571232	Perylene-d12	2099006

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Stearic acid hydrazide	143051	004130-54-5	38.00
2	2-Bromo dodecane	100330	013187-99-0	25.00
3	Nonadecane	117637	000629-92-5	18.00
4	Tetradecane	59882	000629-59-4	15.00
5	Hexadecane	83024	000544-76-3	15.00



1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M40

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GCP22F21

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

% Moisture: 13. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

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	52.	J
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	23.	J
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	47.	J
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	72.	J

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M40

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GCP22F21

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

% Moisture: 13. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

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	28.	J
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	45.	J
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	350	
120-12-7	Anthracene	100	J
86-74-8	Carbazole	84.	J
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	530	
129-00-0	Pyrene	470	
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	320	
218-01-9	Chrysene	330	
117-81-7	Bis(2-ethylhexyl)phthalate	640	
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	570	
207-08-9	Benzo(k)fluoranthene	180	J
50-32-8	Benzo(a)pyrene	280	
193-39-5	Indeno(1,2,3-cd)pyrene	150	J
53-70-3	Dibenzo(a,h)anthracene	41.	J
191-24-2	Benzo(g,h,i)perylene	34.	J
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.: F9M40

Lab Name: ALS Environmental | Contract: EPW11037

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

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

Sample wt/vol: 30.4 (g/mL) g | Lab File ID: GCP22F21

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

% Moisture: 13. | Decanted: (Y/N) N | Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) | Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) | GPC Factor: 2.0 | Date Analyzed: 07/10/2015

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 Phosphine, acetyldimethyl-	2.34	220	J
02		Unknown 2-Pentanone, 4-hydroxy-	3.30	930	JB
03		Unknown Guanidine	3.53	20000	J
04		Unknown TATP	4.08	450	J
05		Unknown Hexane, 3-bromo-	4.19	620	J
06		Unknown 1H-Pyrrole-2,5-dione	4.28	730	J
07		Unknown Propanoic acid, 2-methyl-, 1-methylethyl	5.10	950	J
08	1000336-31-4	Methyl 13-methyltetradecanoate	11.31	230	JN
09	1120-25-8	9-Hexadecenoic acid, methyl ester, (Z)-	12.25	170	JN
10	112-39-0	Hexadecanoic acid, methyl ester	12.40	320	JN
11	57-10-3	n-Hexadecanoic acid	12.66	310	JN
12		Unknown 1(2H)-Dibenzofuranone, 3,4-dihydro-8-met	13.00	180	J
13	301-00-8	9,12,15-Octadecatrienoic acid, methyl ester, (Z,	13.68	160	JN
14	1120-16-7	Dodecanamide	14.16	370	JN
15	301-02-0	9-Octadecenamide, (Z)-	15.08	1700	JNB
16	629-54-9	Hexadecanamide	15.17	110	JN
17		Unknown Tetradecanamide	15.86	260	J
18		Unknown Tetradecanamide	15.99	110	J
19		Unknown Z,Z-4,16-Octadecadien-1-ol acetate	16.20	260	J
20	506-51-4	n-Tetracosanol-1	16.57	120	JN
21		Unknown 9-Octadecenamide, (Z)-	16.98	360	J
22		Unknown Phthalic anhydride	18.62	330	J
23	83-46-5	.beta.-Sitosterol	22.26	1100	JN
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	6000	J

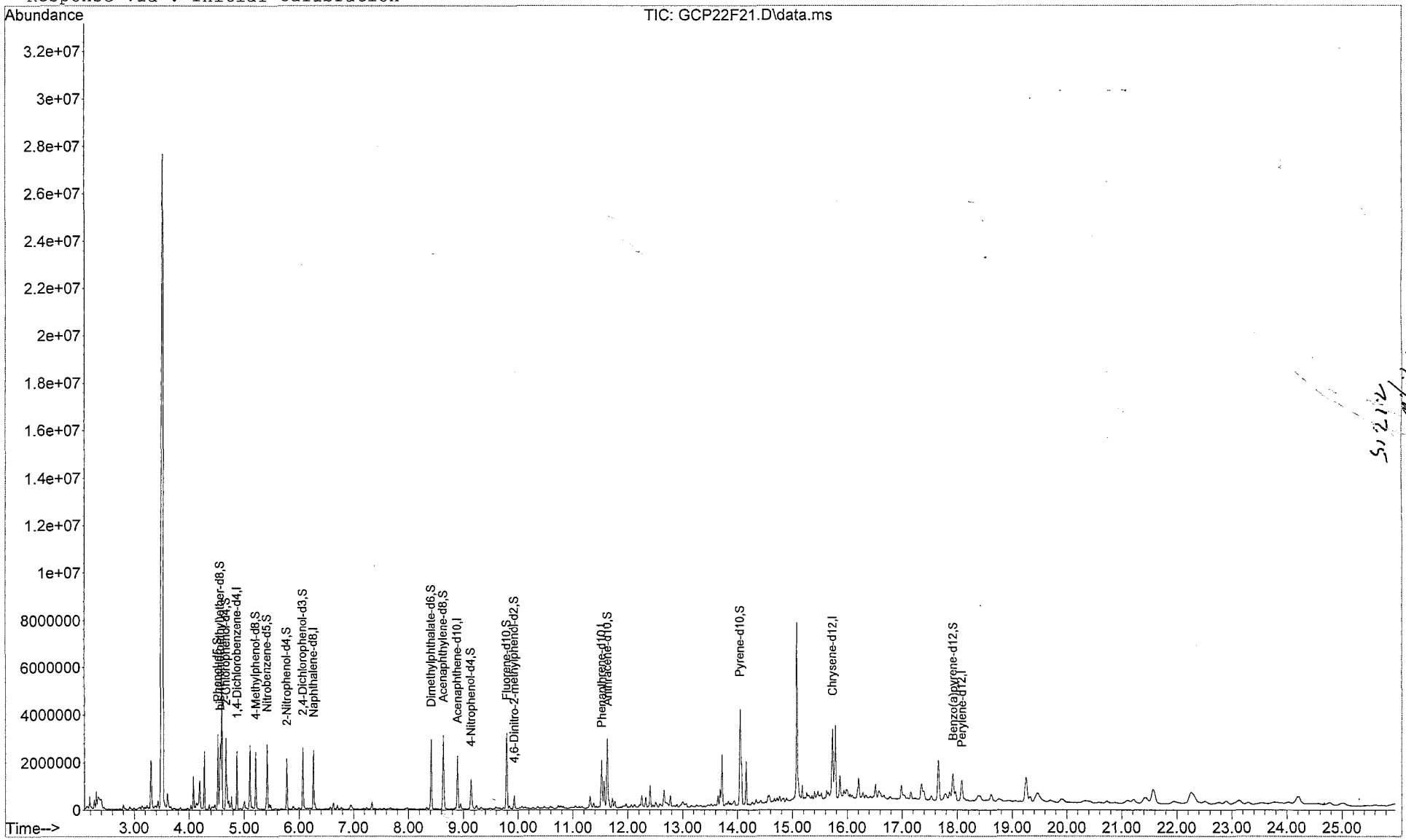
[2] EPA-designated Registry Number.

Quantitation Report

Data File : R:\G\2015\JUL15\10JUL15\GCP22F21.D Vial: 19
Acq On : 07/10/2015 21:59 Operator: TJM
Sample : 1515542021 F9M40 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jul 17 09:39:58 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



GCP22F21.D GSOM01D6.M Fri Jul 17 10:06:52 2015 Page 3

Quantitation Report

Data File : R:\G\2015\JUL15\10JUL15\GCP22F21.D Vial: 19
Acq On : 07/10/2015 21:59 Operator: TJM
Sample : 1515542021 F9M40 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 17 09:39:58 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	321685	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1174672	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	672936	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1104870	20.00 ug/ml
73) Chrysene-d12	15.73	240	1034521	20.00 ug/ml
81) Perylene-d12	18.08	264	621099	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.52	99	820159	29.298ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	594748	27.263ug/mL
7) 2-Chlorophenol-d4	4.67	132	690537	29.216ug/ml
13) 4-Methylphenol-d8	5.21	113	437516	23.367ug/mL
17) Nitrobenzene-d5	5.42	128	302459	29.310ug/ml
21) 2-Nitrophenol-d4	5.77	143	323519	29.661ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	519181	30.569ug/mL
28) 4-Chloroaniline-d4	6.36	131	762	0.041ug/mL
42) Dimethylphthalate-d6	8.42	166	1450793	34.381ug/mL
45) Acenaphthylene-d8	8.63	160	1774437	30.943ug/mL
50) 4-Nitrophenol-d4	9.14	143	270058	31.371ug/mL
57) Fluorene-d10	9.79	176	1203355	33.393ug/mL
61) 4,6-Dinitro-2-methylphenol	9.93	200	80884	10.314ug/mL
69) Anthracene-d10	11.63	188	1689994	28.844ug/mL
75) Pyrene-d10	14.05	212	1708690	33.097ug/mL
86) Benzo(a)pyrene-d12	17.92	264	820660	27.574ug/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	6.29	128	81331	1.370ug/ml 99
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	7.24	142	22468	0.598ug/ml 92
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)

: 00624

Quantitation Report

Data File : R:\G\2015\JUL15\10JUL15\GCP22F21.D Vial: 19
Acq On : 07/10/2015 21:59 Operator: TJM
Sample : 1515542021 F9M40 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 17 09:39:58 2015 Results File: GSOM01D6.RES

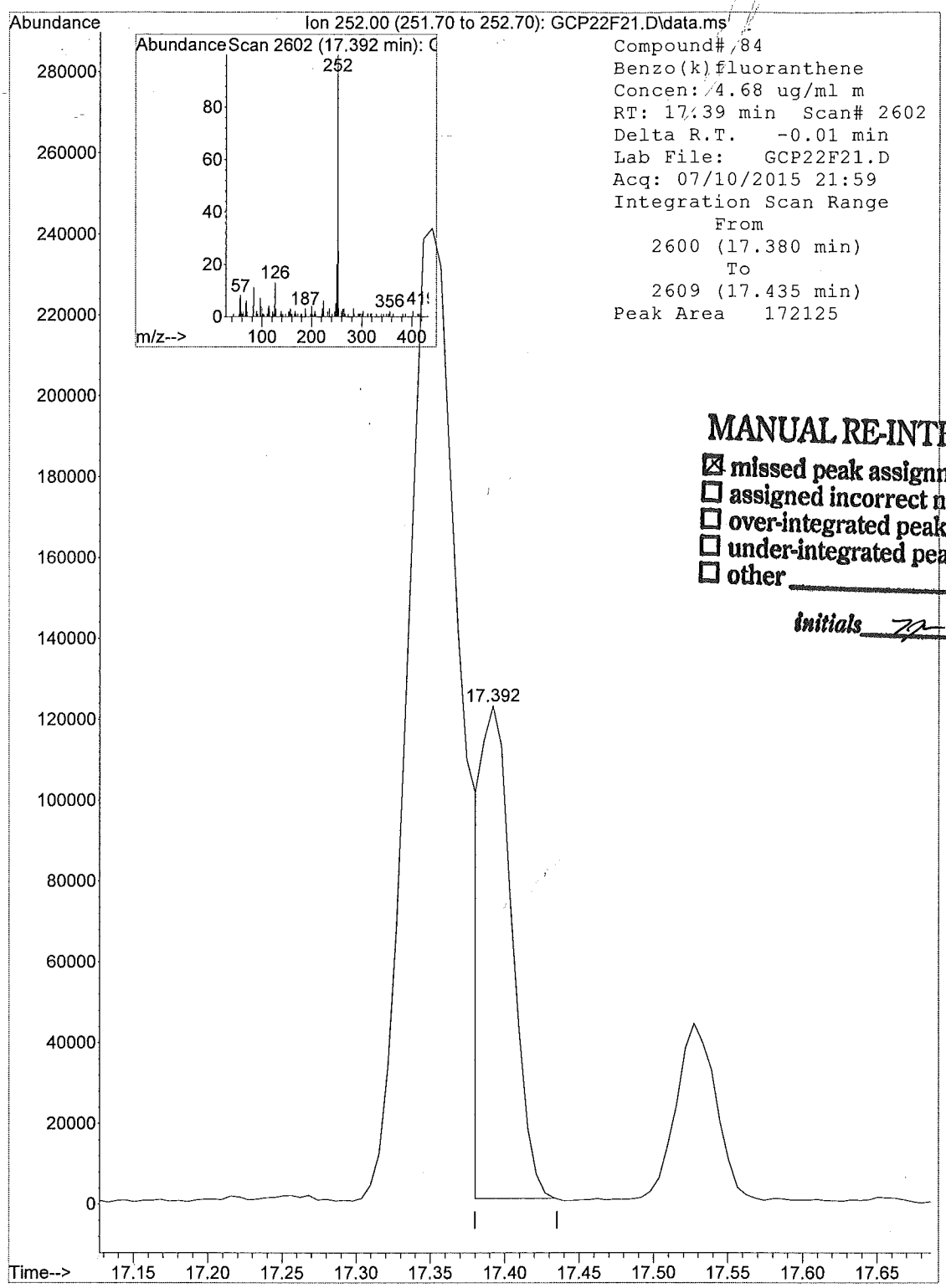
Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44)	Acenaphthylene	8.66	152	75710	1.243ug/ml	98
46)	3-Nitroaniline	0.00	138		Not Detected	
47)	Acenaphthene	8.95	153	70071	1.899ug/ml	93
48)	2,4-Dinitrophenol	0.00	184		Not Detected	
49)	4-Nitrophenol	0.00	109		Not Detected	
51)	Dibenzofuran	9.24	168	35594	0.732ug/ml	94
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	9.84	166	48407	1.196ug/ml	95
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	550251	9.337ug/ml	98
68)	Anthracene	11.66	178	161885	2.692ug/ml	93
70)	Carbazole	11.97	167	91308	2.216ug/mL	97
71)	Di-n-butylphthalate	0.00	149		Not Detected	
72)	Fluoranthene	13.72	202	908033	13.984ug/ml	95
74)	Pyrene	14.07	202	819648	12.447ug/ml	97
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	15.72	228	534525	8.517ug/ml	85
79)	Chrysene	15.76	228	494085	8.718ug/ml	98
80)	Bis-(2-ethylhexyl)phthalat	15.78	149	863284	16.874ug/ml	95
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	17.35	252	586284	15.071ug/ml	96
84)	Benzo(k)fluoranthene	17.39	252	172125	4.685ug/ml m TJM	96 7.17.15
85)	Benzo(a)pyrene	17.97	252	274940	7.510ug/ml	93
87)	Indeno(1,2,3-c,d)pyrene	20.73	276	125348	3.873ug/ml	84
88)	Dibenzo(a,h)anthracene	20.78	278	34982	1.080ug/ml	68
89)	Benzo(g,h,i)perylene	21.54	276	28428	0.892ug/ml	53

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

: 00625

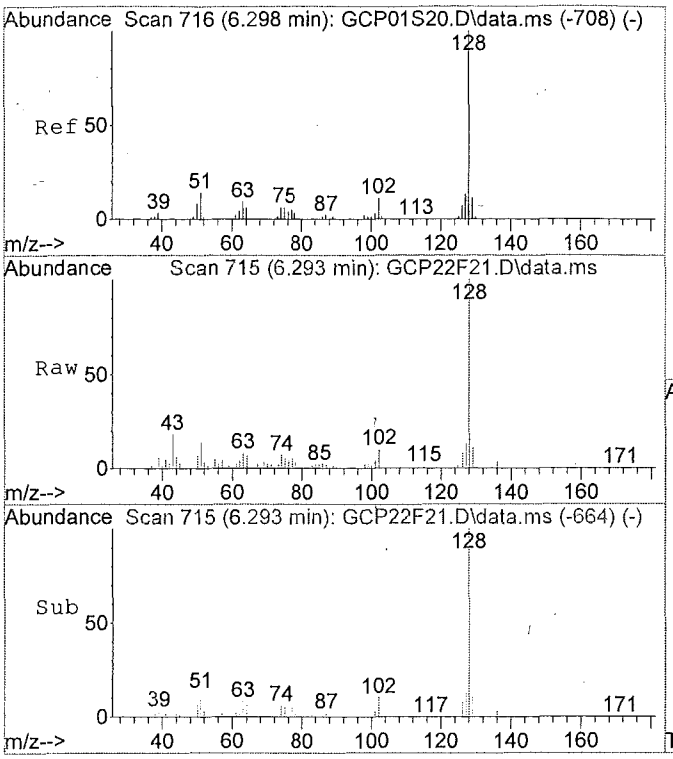
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- ☒ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

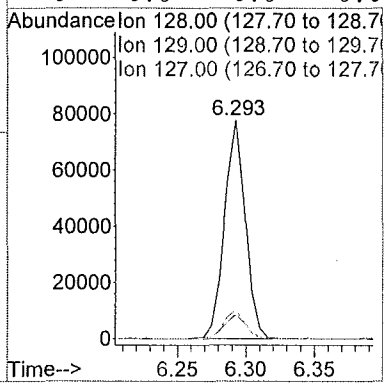
initials ZZ *date* 7.17.15

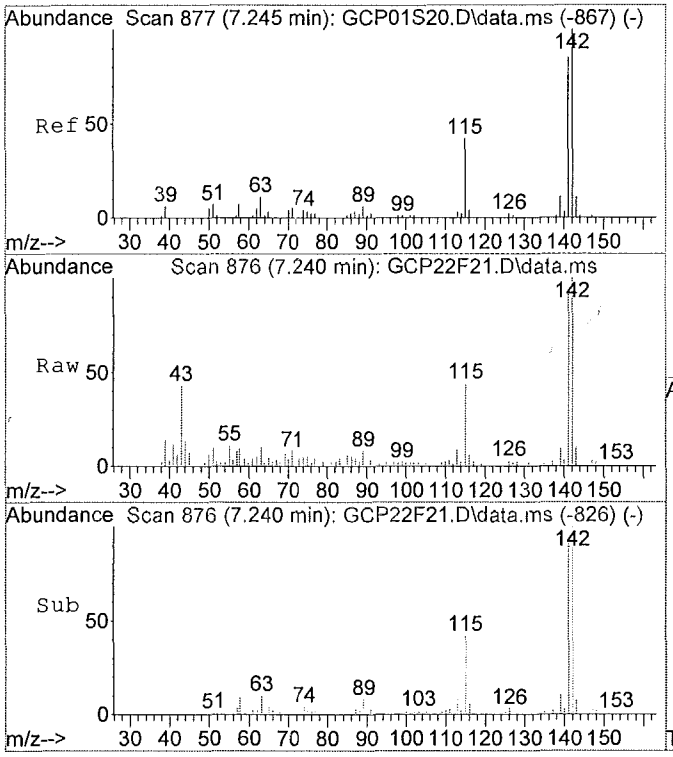


#26
Naphthalene
Concen: 1.37 ug/ml
RT: 6.29 min Scan# 715
Delta R.T. 0.00 min
Lab File: GCP22F21.D
Acq: 07/10/2015 21:59

Tgt Ion:128 Resp: 81331

Ion	Ratio	Lower	Upper
128	100		
129	11.9	7.8	14.4
127	13.0	9.3	17.3
0	0.0	0.0	0.0

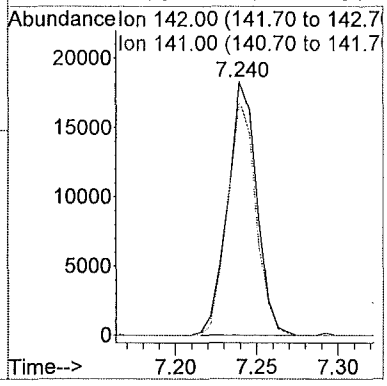


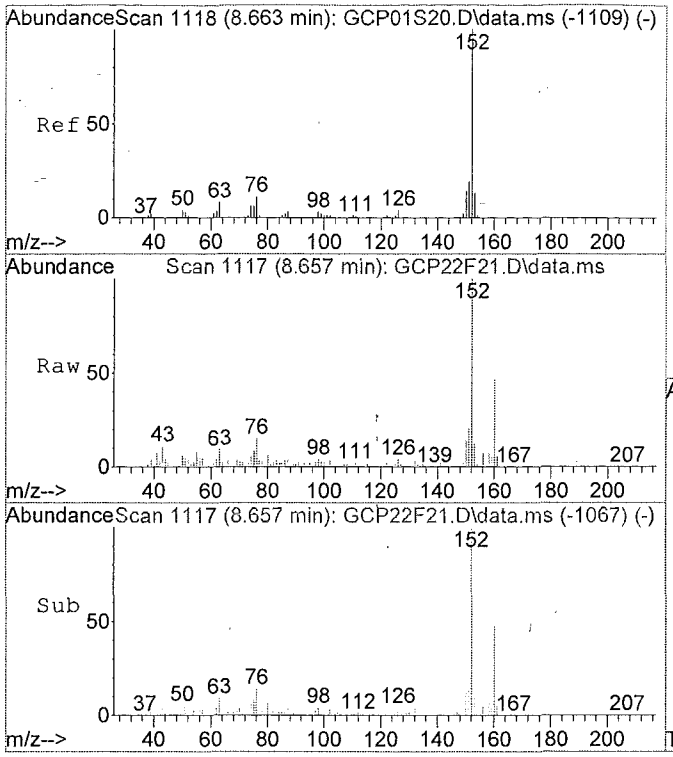


#32
2-Methylnaphthalene
Concen: 0.60 ug/ml
RT: 7.24 min Scan# 876
Delta R.T. -0.01 min
Lab File: GCP22F21.D
Acq: 07/10/2015 21:59

Tgt Ion:142 Resp: 22468

Ion	Ratio	Lower	Upper
142	100		
141	90.1	57.7	107.3
0	0.0	0.0	0.0
0	0.0	0.0	0.0

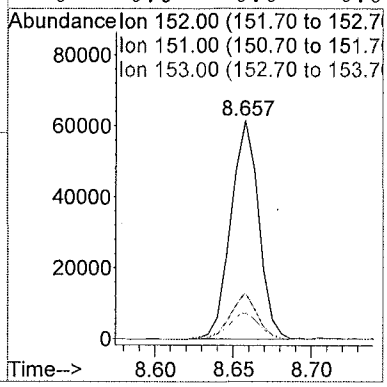


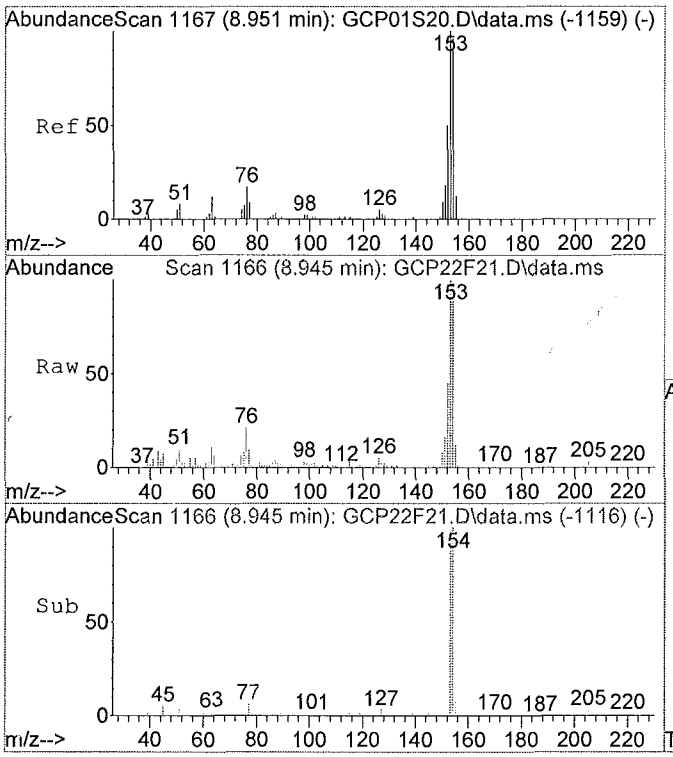


#44
Acenaphthylene
Concen: 1.24 ug/ml
RT: 8.66 min Scan# 1117
Delta R.T. -0.01 min
Lab File: GCP22F21.D
Acq: 07/10/2015 21:59

Tgt Ion:152 Resp: 75710

Ion	Ratio	Lower	Upper
152	100		
151	20.1	13.4	25.0
153	13.7	9.1	16.9
0	0.0	0.0	0.0

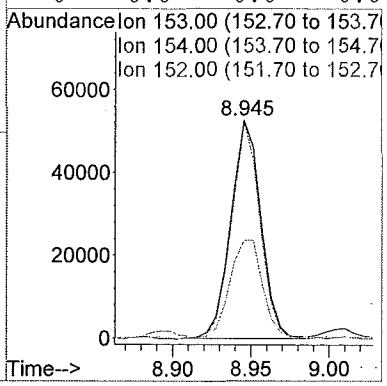


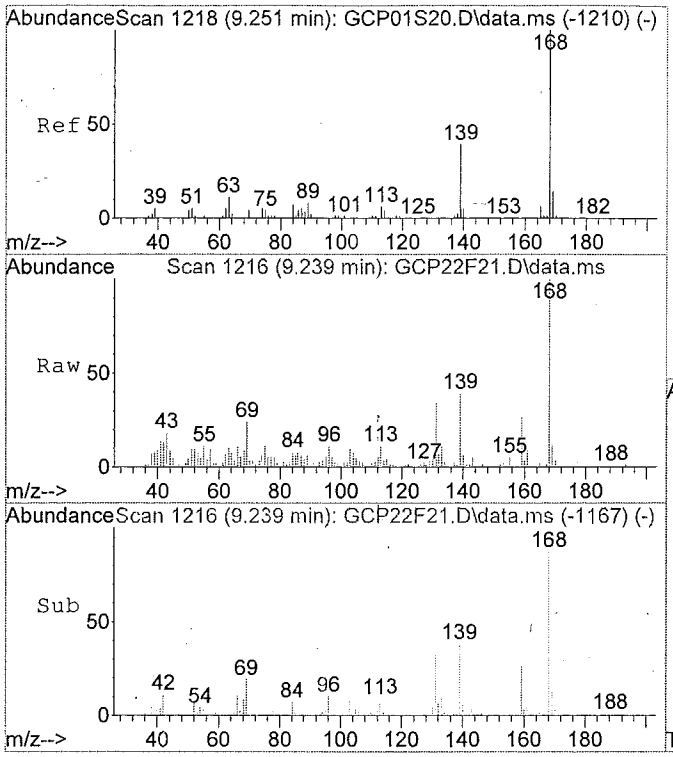


#47
Acenaphthene
Concen: 1.90 ug/ml
RT: 8.95 min Scan# 1166
Delta R.T. -0.01 min
Lab File: GCP22F21.D
Acq: 07/10/2015 21:59

Tgt Ion:153 Resp: 70071

Ion	Ratio	Lower	Upper
153	100		
154	92.9	71.2	132.2
152	50.3	33.5	62.3
0	0.0	0.0	0.0

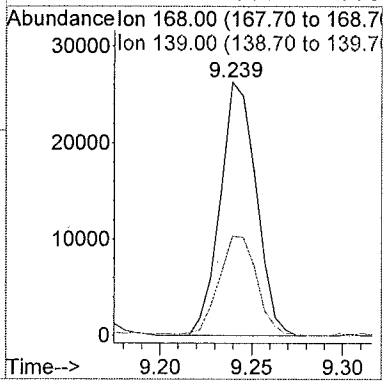


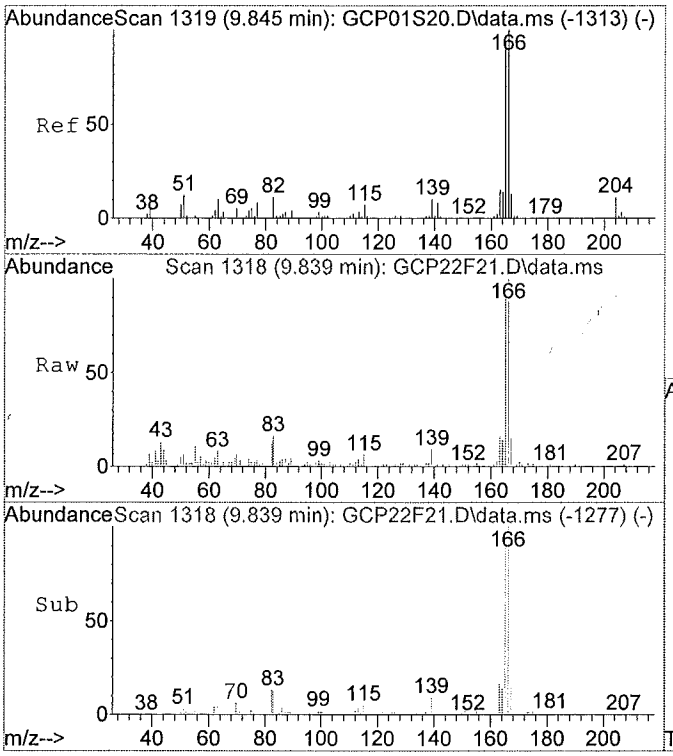


#51
Dibenzofuran
Concen: 0.73 ug/ml
RT: 9.24 min Scan# 1216
Delta R.T. -0.01 min
Lab File: GCP22F21.D
Acq: 07/10/2015 21:59

Tgt Ion:168 Resp: 35594

Ion	Ratio	Lower	Upper
168	100		
139	41.7	26.5	49.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

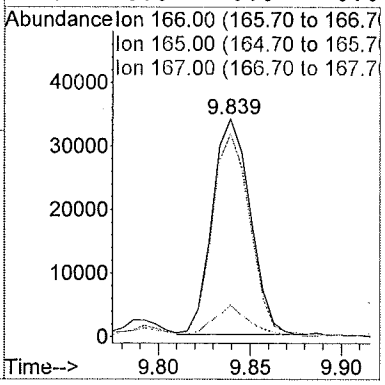


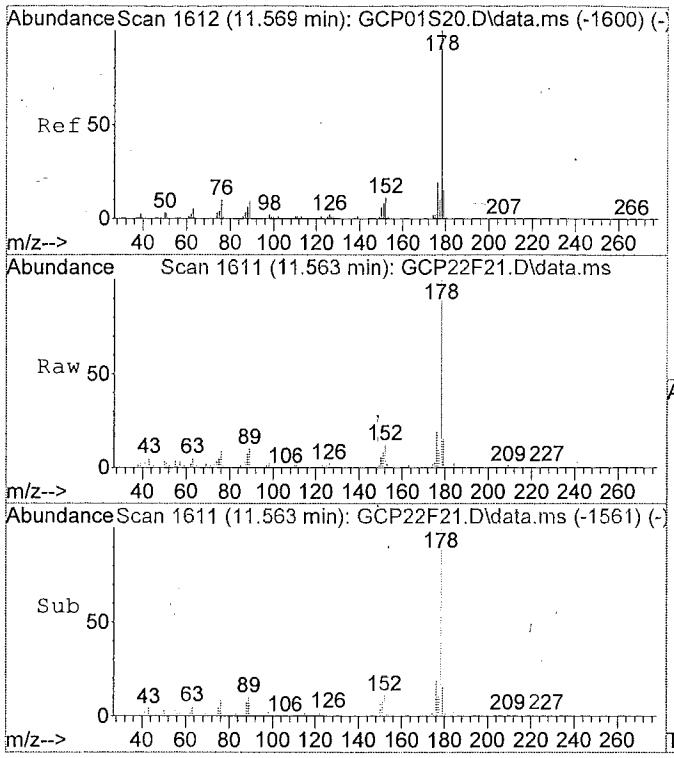


#56
Fluorene
Concen: 1.20 ug/ml
RT: 9.84 min Scan# 1318
Delta R.T. -0.01 min
Lab File: GCP22F21.D
Acq: 07/10/2015 21:59

Tgt Ion:166 Resp: 48407

Ion	Ratio	Lower	Upper
166	100		
165	96.2	63.8	118.4
167	13.5	9.3	17.3
0	0.0	0.0	0.0

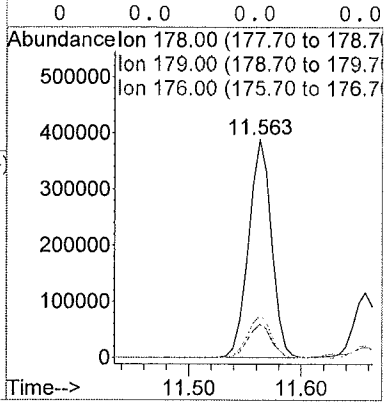


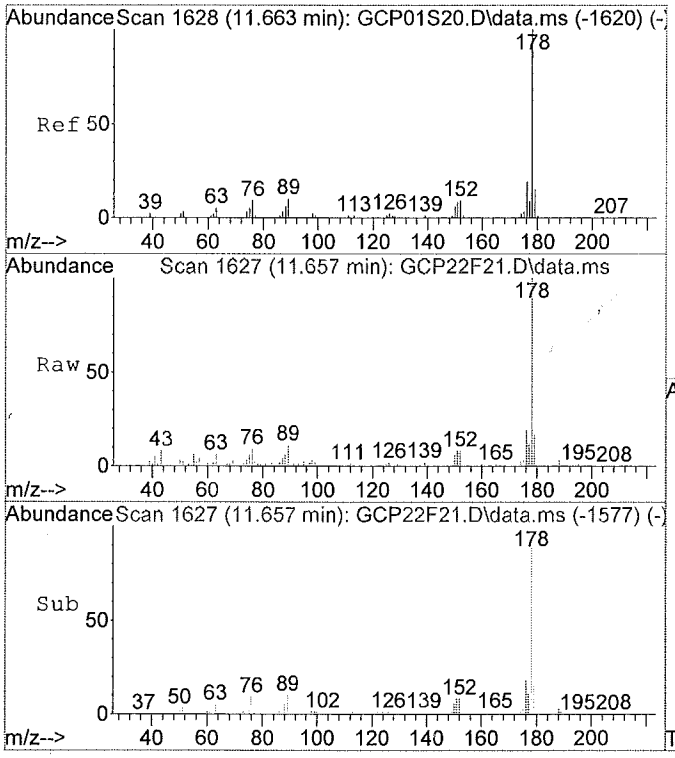


#67
Phenanthrene
Concen: 9.34 ug/ml
RT: 11.56 min Scan# 1611
Delta R.T. -0.01 min
Lab File: GCP22F21.D
Acq: 07/10/2015 21:59

Tgt Ion:178 Resp: 550251

Ion	Ratio	Lower	Upper
178	100		
179	16.0	10.6	19.8
176	19.8	13.2	24.4
0	0.0	0.0	0.0

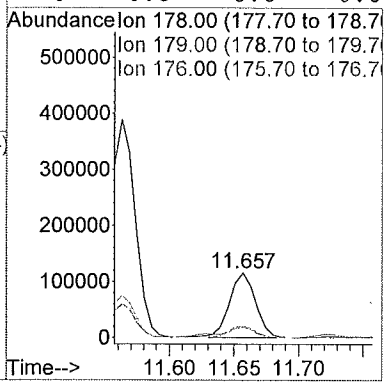


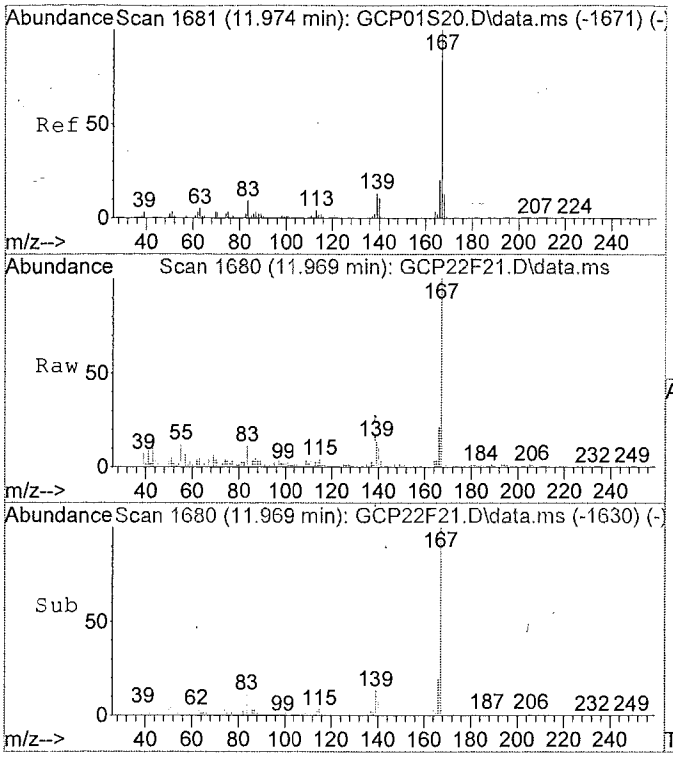


#68
Anthracene
Concen: 2.69 ug/ml
RT: 11.66 min Scan# 1627
Delta R.T. -0.01 min
Lab File: GCP22F21.D
Acq: 07/10/2015 21:59

Tgt Ion:178 Resp: 161885

Ion	Ratio	Lower	Upper
178	100		
179	20.8	10.5	19.5#
176	18.6	12.7	23.5
0	0.0	0.0	0.0

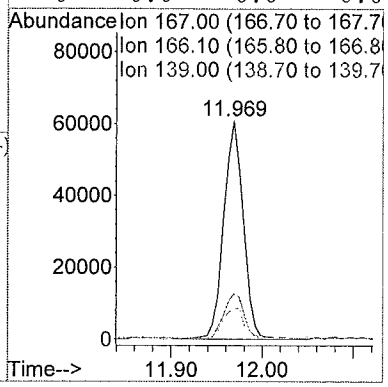


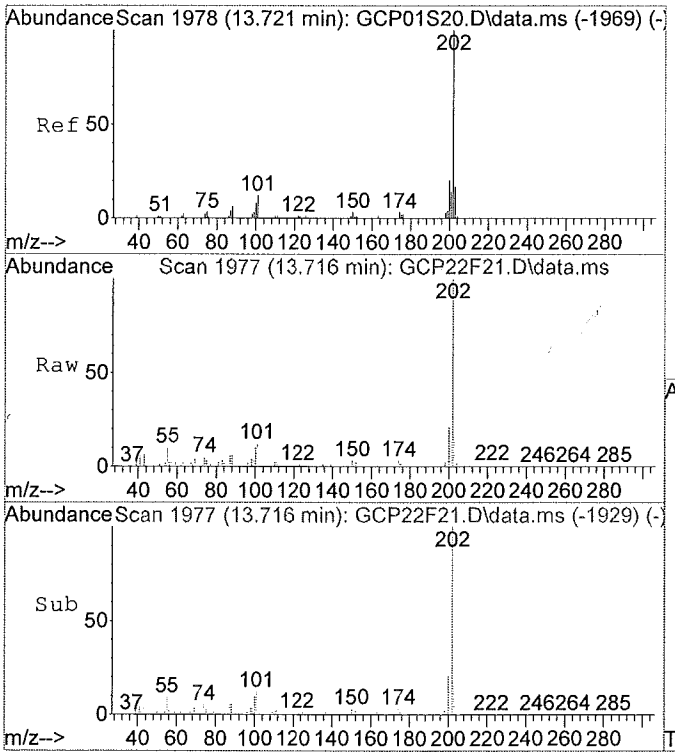


#70
Carbazole
Concen: 2.22 ug/mL
RT: 11.97 min Scan# 1680
Delta R.T. -0.01 min
Lab File: GCP22F21.D
Acq: 07/10/2015 21:59

Tgt Ion:167 Resp: 91308

Ion	Ratio	Lower	Upper
167	100		
166	20.9	15.8	23.8
139	15.1	11.1	16.7
0	0.0	0.0	0.0

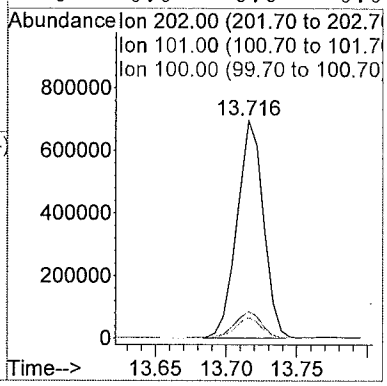


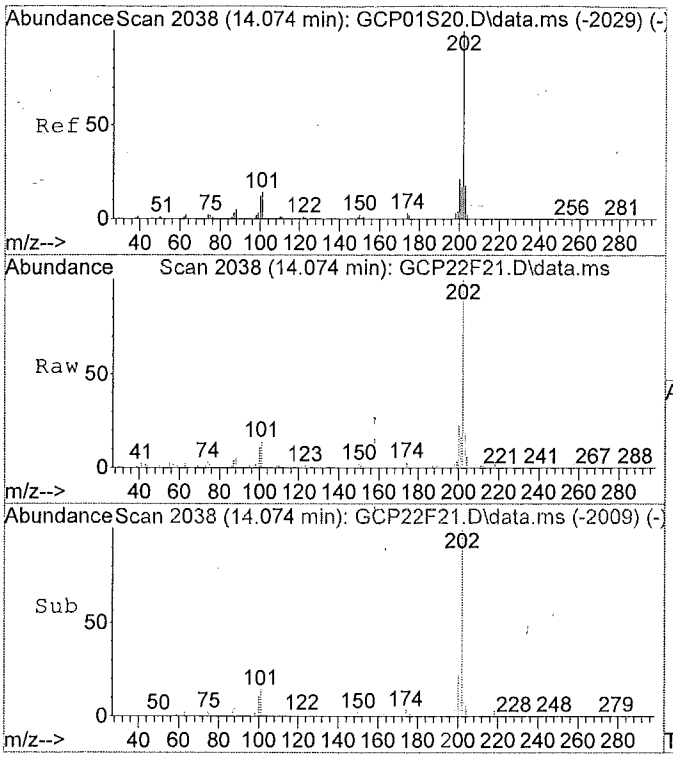


#72
Fluoranthene
Concen: 13.98 ug/ml
RT: 13.72 min Scan# 1977
Delta R.T. -0.01 min
Lab File: GCP22F21.D
Acq: 07/10/2015 21:59

Tgt Ion:202 Resp: 908033

Ion	Ratio	Lower	Upper
202	100		
101	12.6	10.5	19.5
100	9.5	7.4	13.8
0	0.0	0.0	0.0

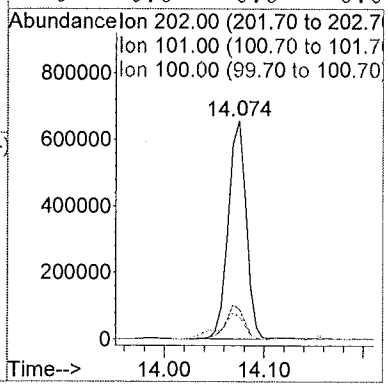


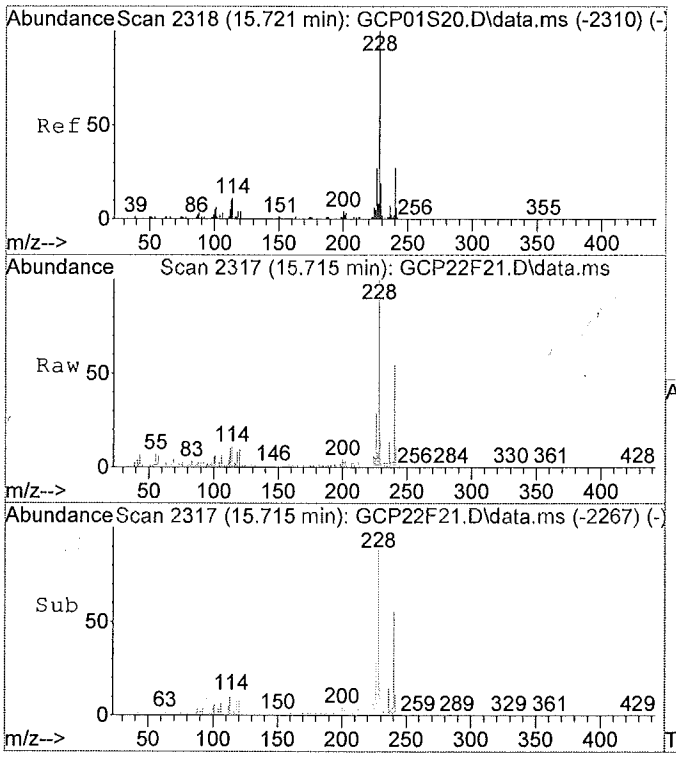


#74
Pyrene
Concen: 12.45 ug/ml
RT: 14.07 min Scan# 2038
Delta R.T. -0.00 min
Lab File: GCP22F21.D
Acq: 07/10/2015 21:59

Tgt Ion:202 Resp: 819648

Ion	Ratio	Lower	Upper
202	100		
101	16.3	12.2	22.7
100	16.0	10.1	18.7
0	0.0	0.0	0.0

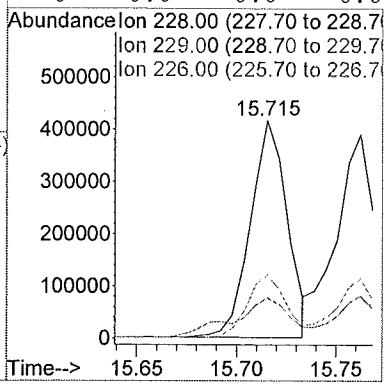


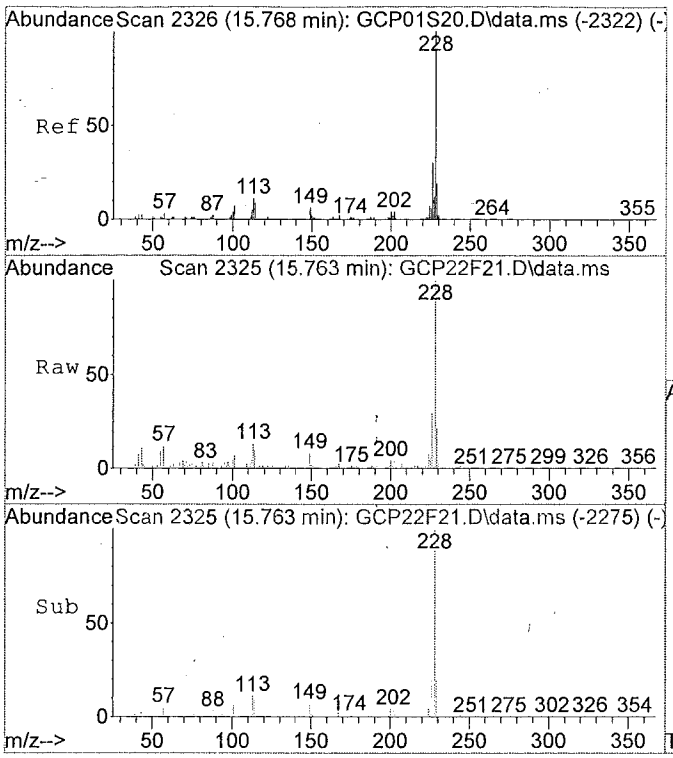


#78
Benzo(a)anthracene
Concen: 8.52 ug/ml
RT: 15.72 min Scan# 2317
Delta R.T. -0.01 min
Lab File: GCP22F21.D
Acq: 07/10/2015 21:59

Tgt Ion:228 Resp: 534525

Ion	Ratio	Lower	Upper
228	100		
229	29.6	13.7	25.5#
226	30.5	18.2	33.8
0	0.0	0.0	0.0

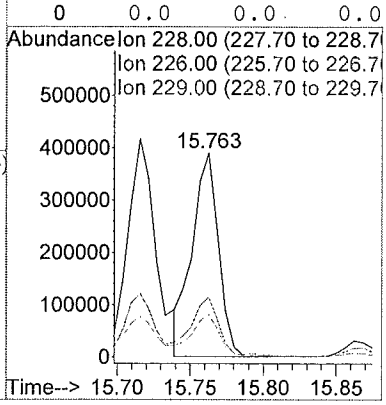


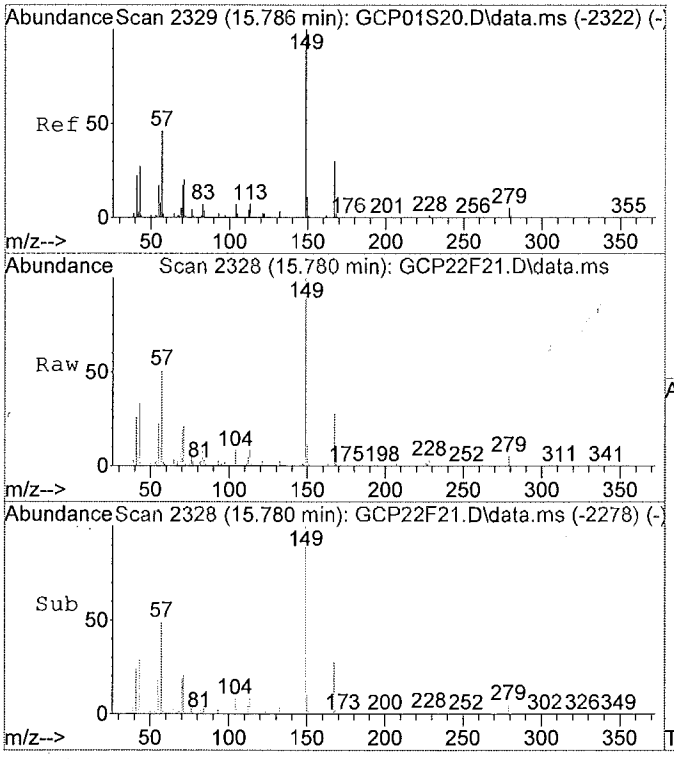


#79
Chrysene
Concen: 8.72 ug/ml
RT: 15.76 min Scan# 2325
Delta R.T. -0.01 min
Lab File: GCP22F21.D
Acq: 07/10/2015 21:59

Tgt Ion:228 Resp: 494085

Ion	Ratio	Lower	Upper
228	100		
226	30.2	20.1	37.3
229	19.4	13.7	25.5
0	0.0	0.0	0.0

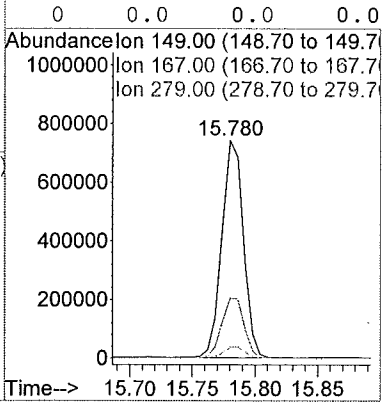


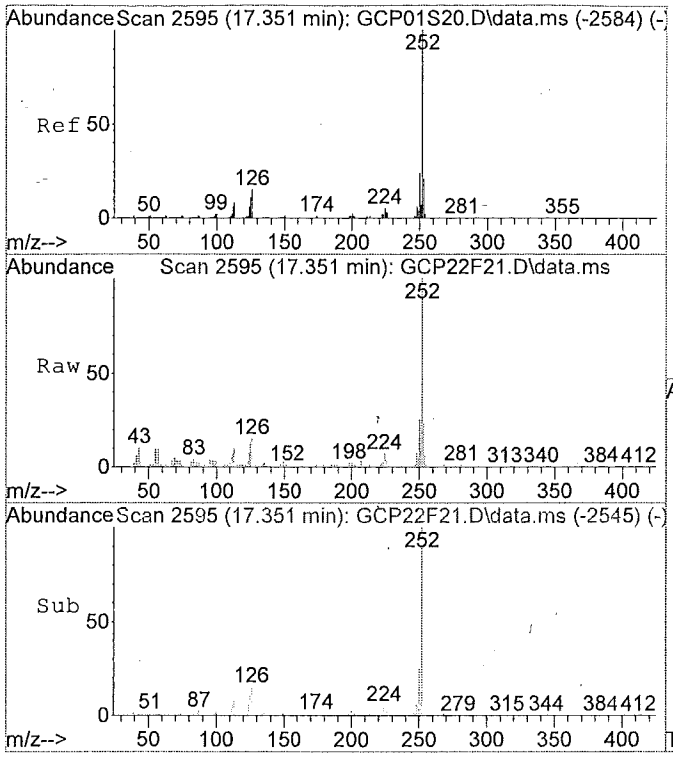


#80
Bis-(2-ethylhexyl)phthalate
Concen: 16.87 ug/ml
RT: 15.78 min Scan# 2328
Delta R.T. -0.01 min
Lab File: GCP22F21.D
Acq: 07/10/2015 21:59

Tgt Ion:149 Resp: 863284

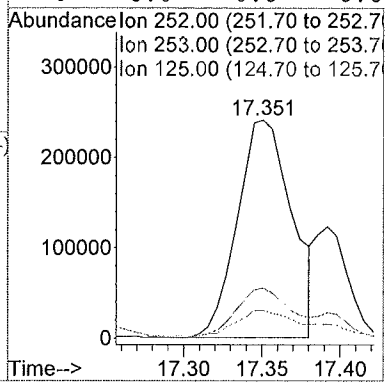
Ion	Ratio	Lower	Upper
149	100		
167	28.7	22.0	40.8
279	5.3	5.0	9.2
0	0.0	0.0	0.0

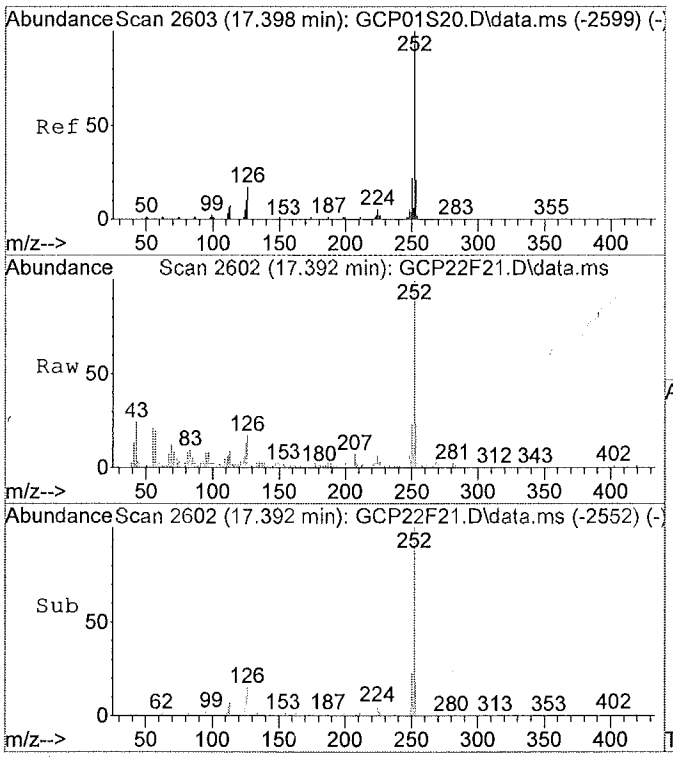




#83
Benzo(b)fluoranthene
Concen: 15.07 ug/ml
RT: 17.35 min Scan# 2595
Delta R.T. 0.00 min
Lab File: GCP22F21.D
Acq: 07/10/2015 21:59

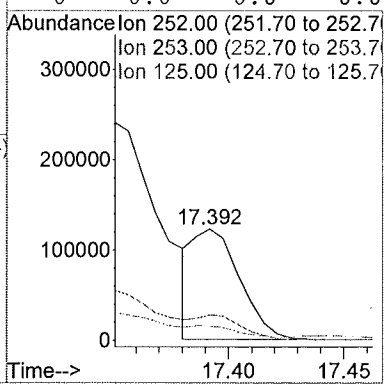
Tgt Ion:252	Resp:	586284	
Ion	Ratio	Lower	Upper
252	100		
253	22.3	15.1	28.1
125	12.3	10.6	19.8
0	0.0	0.0	0.0

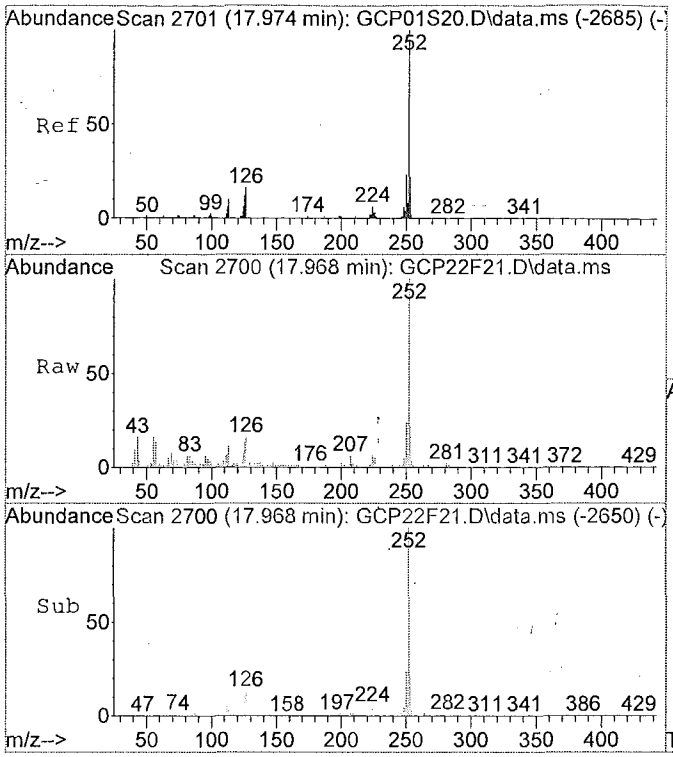




#84
Benzo(k)fluoranthene
Concen: 4.68 ug/ml m
RT: 17.39 min Scan# 2602
Delta R.T. -0.01 min
Lab File: GCP22F21.D
Acq: 07/10/2015 21:59

Tgt Ion:252	Resp:	172125	
Ion	Ratio	Lower	Upper
252	100		
253	75.9	15.1	28.1#
125	41.9	10.7	19.9#
0	0.0	0.0	0.0

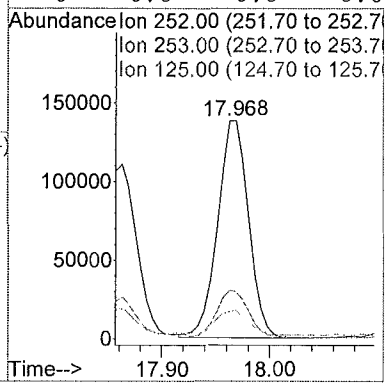


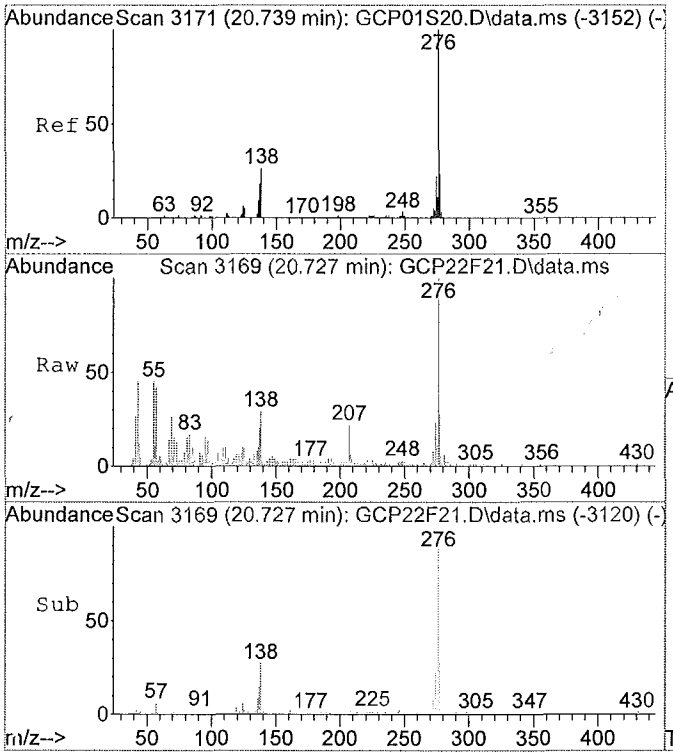


#85
Benzo(a)pyrene
Concen: 7.51 ug/ml
RT: 17.97 min Scan# 2700
Delta R.T. -0.01 min
Lab File: GCP22F21.D
Acq: 07/10/2015 21:59

Tgt Ion:252 Resp: 274940

Ion	Ratio	Lower	Upper
252	100		
253	23.4	15.2	28.2
125	12.0	11.8	21.8
0	0.0	0.0	0.0

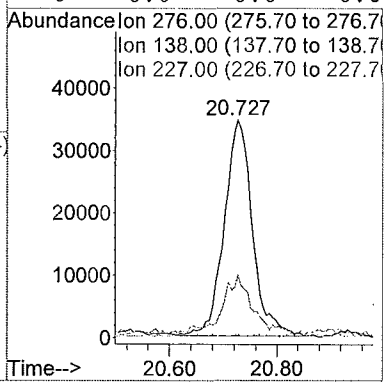


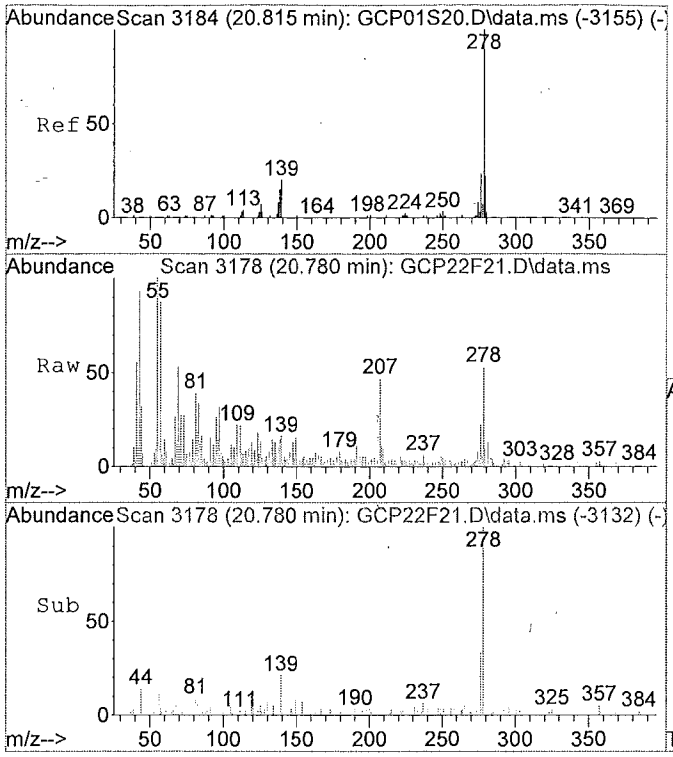


#87
Indeno(1,2,3-c,d)pyrene
Concen: 3.87 ug/ml
RT: 20.73 min Scan# 3169
Delta R.T. -0.01 min
Lab File: GCP22F21.D
Acq: 07/10/2015 21:59

Tgt Ion:276 Resp: 125348

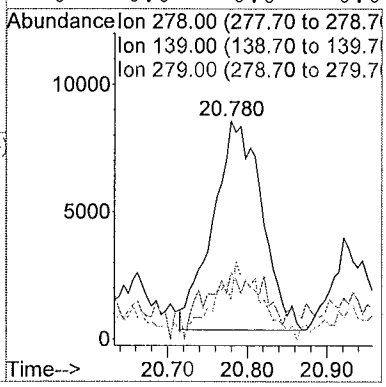
Ion	Ratio	Lower	Upper
276	100		
138	22.8	22.3	41.5
227	0.3	0.1	0.1#
0	0.0	0.0	0.0

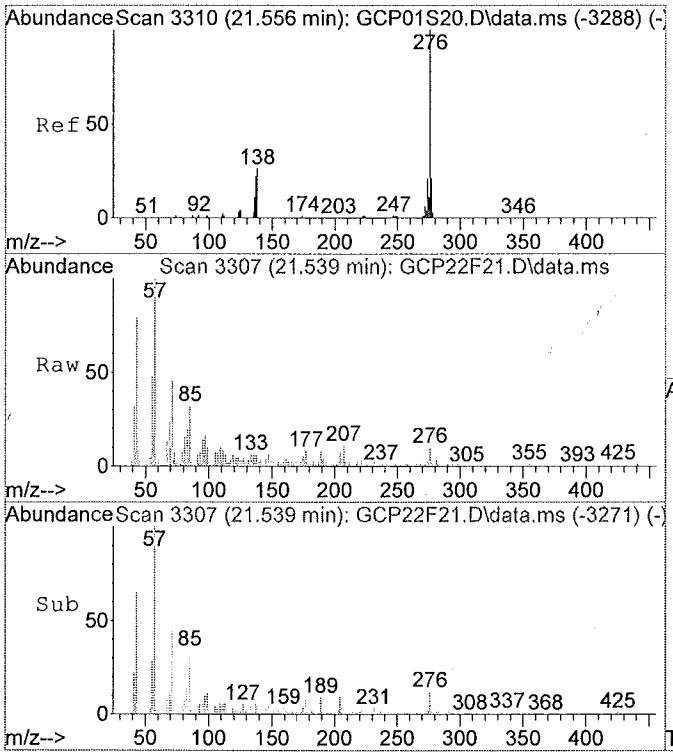




#88
Dibenzo(a,h)anthracene
Concen: 1.08 ug/ml
RT: 20.78 min Scan# 3178
Delta R.T. -0.03 min
Lab File: GCP22F21.D
Acq: 07/10/2015 21:59

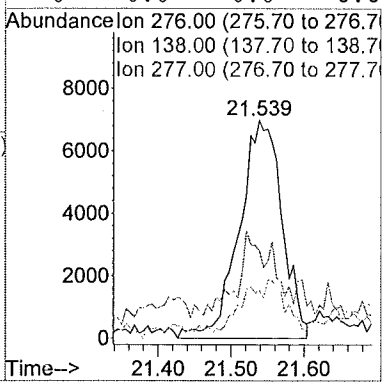
Tgt Ion:278	Resp:	34982	
Ion	Ratio	Lower	Upper
278	100		
139	2.5	17.3	32.1#
279	32.7	16.3	30.3#
0	0.0	0.0	0.0





#89
Benzo(g,h,i)perylene
Concen: 0.89 ug/ml
RT: 21.54 min Scan# 3307
Delta R.T. -0.02 min
Lab File: GCP22F21.D
Acq: 07/10/2015 21:59

Tgt Ion:276	Resp:	28428	
Ion	Ratio	Lower	Upper
276	100		
138	0.0	24.1	44.7#
277	9.6	16.7	30.9#
0	0.0	0.0	0.0



Library Search Compound Report

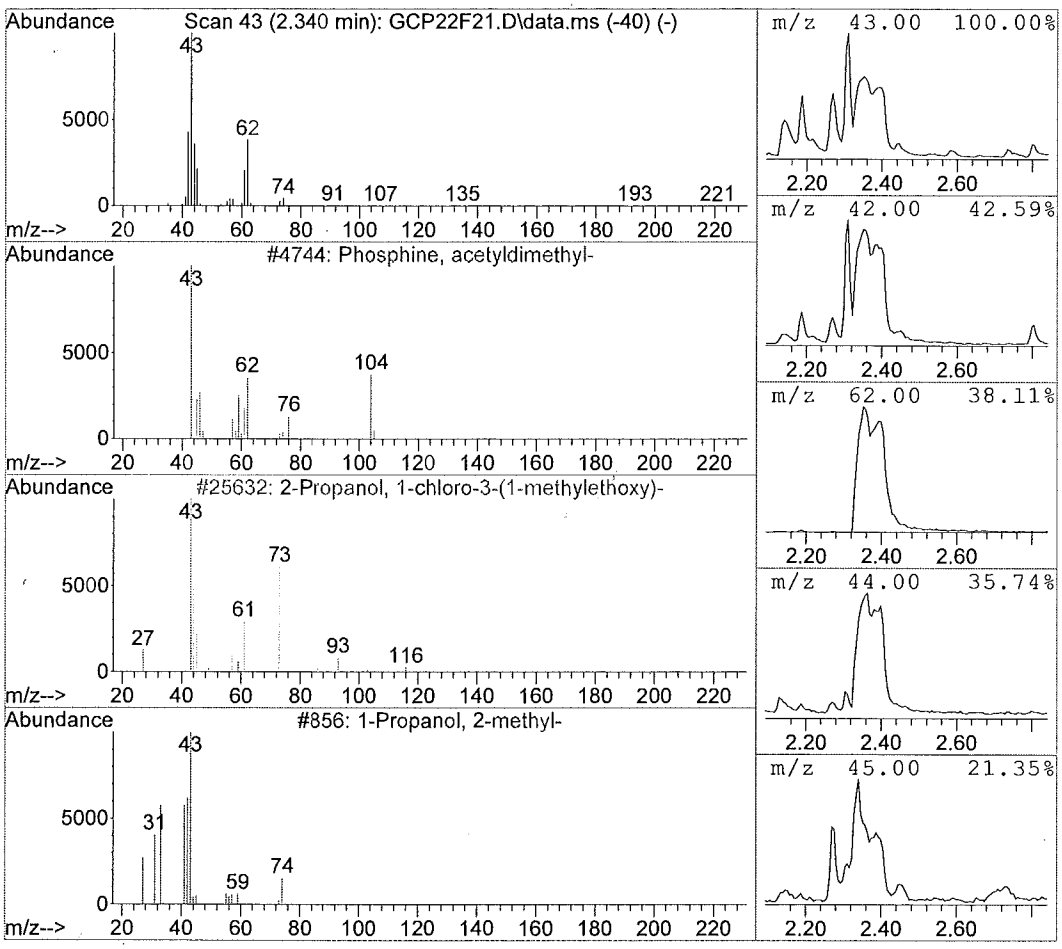
Data File : R:\G\2015\JUL15\10JUL15\GCP22F21.D
Acq On : 07/10/2015 21:59
Sample : 1515542021 F9M40
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 19
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
2.34	5.86 ug/ml	705011	1,4-Dichlorobenzene-d4	2406786

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phosphine, acetyldimethyl-	4744	018983-86-3	38.00
2	2-Propanol, 1-chloro-3-(1-methyleth	25632	004288-84-0	9.00
3	1-Propanol, 2-methyl-	856	000078-83-1	9.00
4	N-Acetylethylenediamine	4210	001001-53-2	9.00
5	Taurultam	15929	038668-01-8	9.00



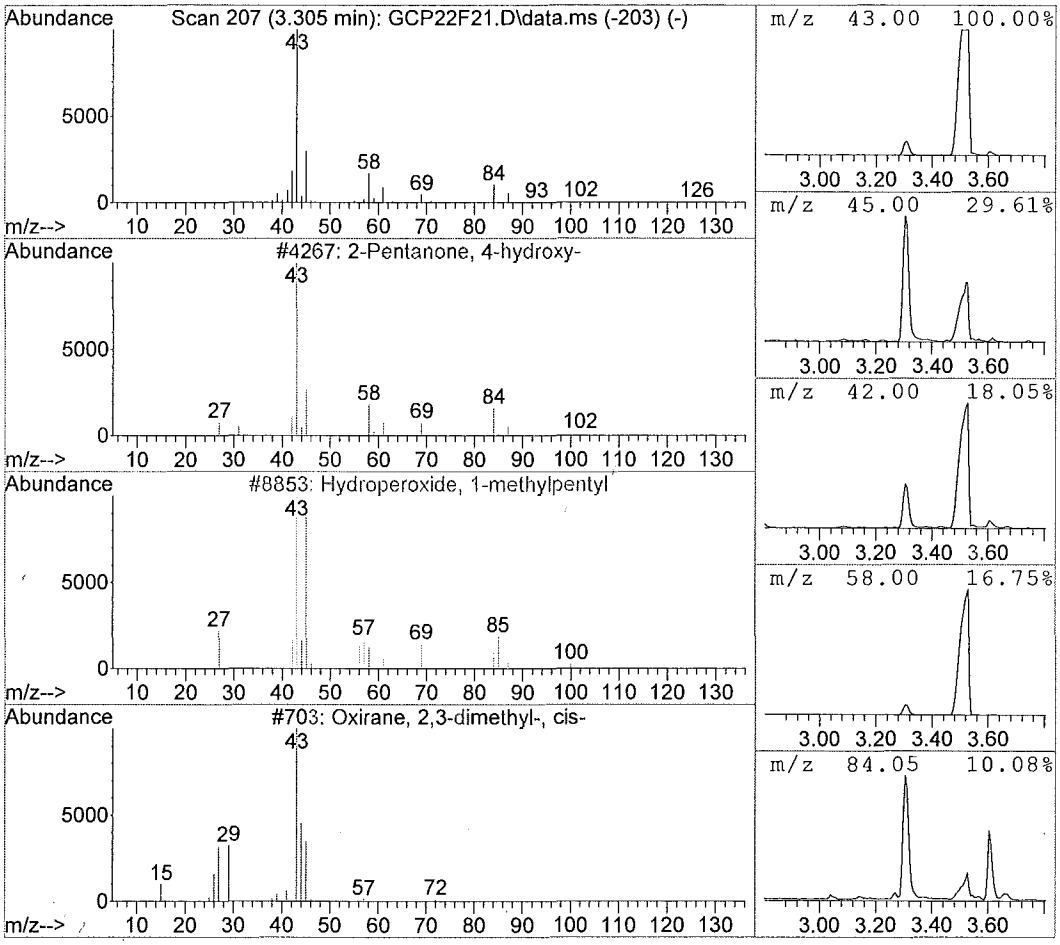
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP22F21.D Vial: 19
Acq On : 07/10/2015 21:59 Operator: TJM
Sample : 1515542021 F9M40 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	24.61 ug/ml	2961760	1,4-Dichlorobenzene-d4	2406786

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	33.00
2	Hydroperoxide, 1-methylpentyl	8853	024254-55-5	33.00
3	Oxirane, 2,3-dimethyl-, cis-	703	001758-33-4	17.00
4	Acetone	214	000067-64-1	9.00
5	1-Tetrazol-2-ylethanone	6198	051410-11-8	9.00



Library Search Compound Report

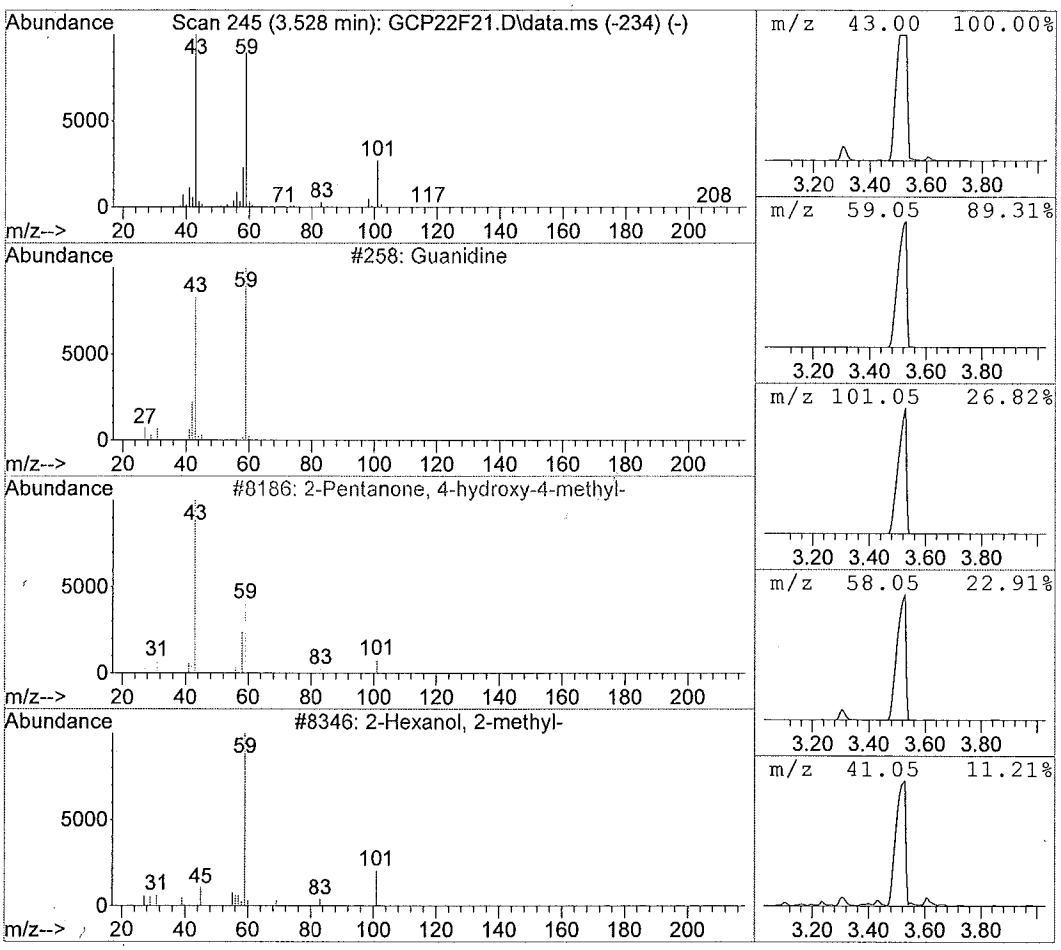
Data File : R:\G\2015\JUL15\10JUL15\GCP22F21.D
Acq On : 07/10/2015 21:59
Sample : 1515542021 F9M40
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 19
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
3.53	518.45 ug/ml	62389712	1,4-Dichlorobenzene-d4	2406786

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Guanidine	258	000113-00-8	52.00
2	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	50.00
3	2-Hexanol, 2-methyl-	8346	000625-23-0	36.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	28.00
5	Silane, dimethyl-	283	001111-74-6	9.00



: 00639

Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP22F21.D
Acq On : 07/10/2015 21:59
Sample : 1515542021 F9M40
Misc : . SOIL SOM
MS Integration Params: rteint.p

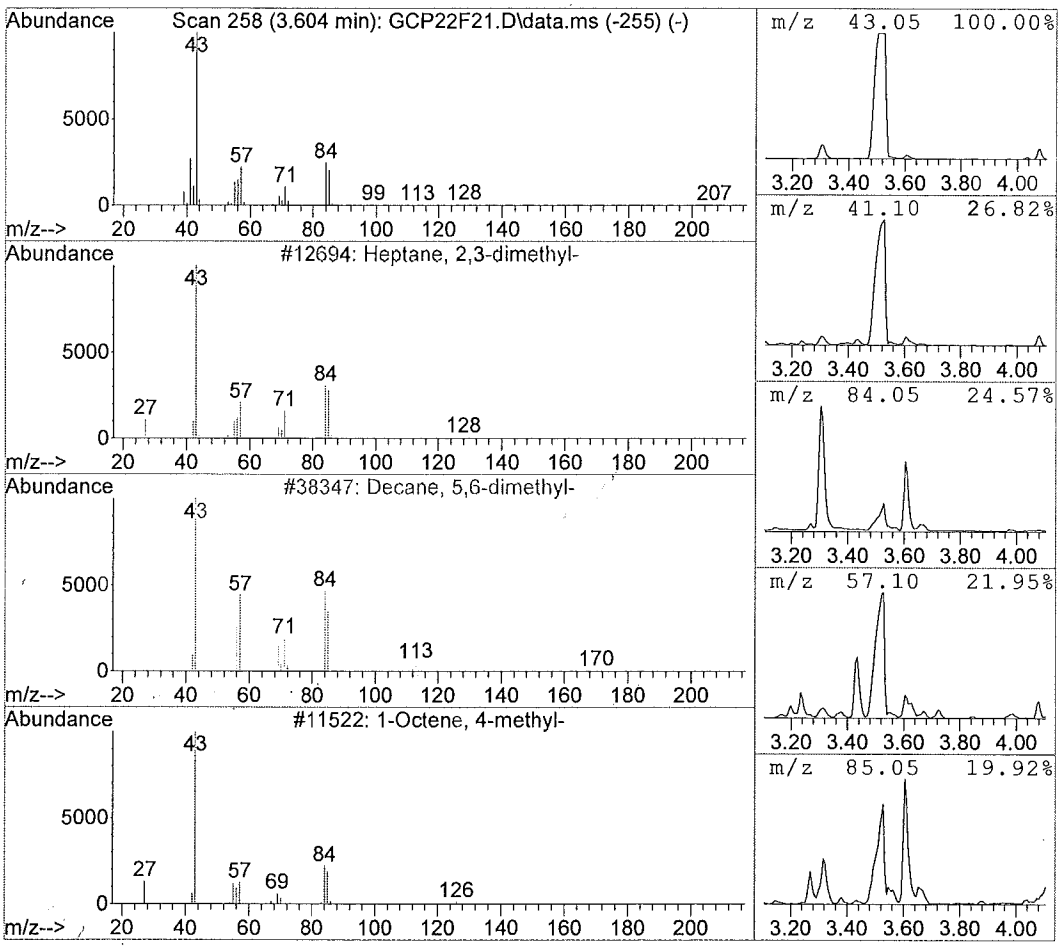
Vial: 19
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

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	6.74 ug/ml	810711	1,4-Dichlorobenzene-d4	2406786

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12694	003074-71-3	80.00
2	Decane, 5,6-dimethyl-	38347	001636-43-7	74.00
3	1-Octene, 4-methyl-	11522	013151-12-7	72.00
4	Hexane, 3-ethyl-	7622	000619-99-8	64.00
5	Hexane, 3-ethyl-2-methyl-	12726	016789-46-1	64.00

BA



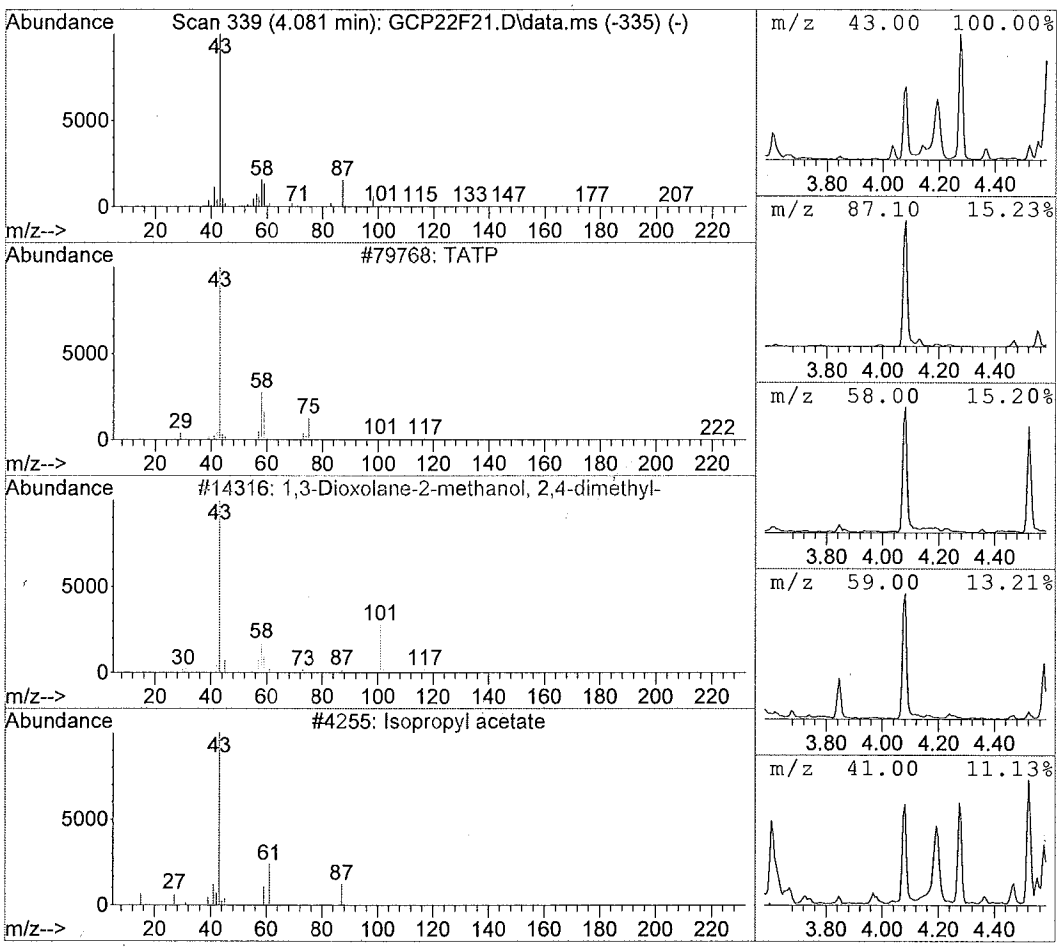
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP22F21.D Vial: 19
Acq On : 07/10/2015 21:59 Operator: TJM
Sample : 1515542021 F9M40 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
4.08	11.87 ug/ml	1428254	1,4-Dichlorobenzene-d4	2406786

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	TATP	79768	017088-37-8	40.00
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	1-Pentanamine	1907	000110-58-7	9.00



Library Search Compound Report

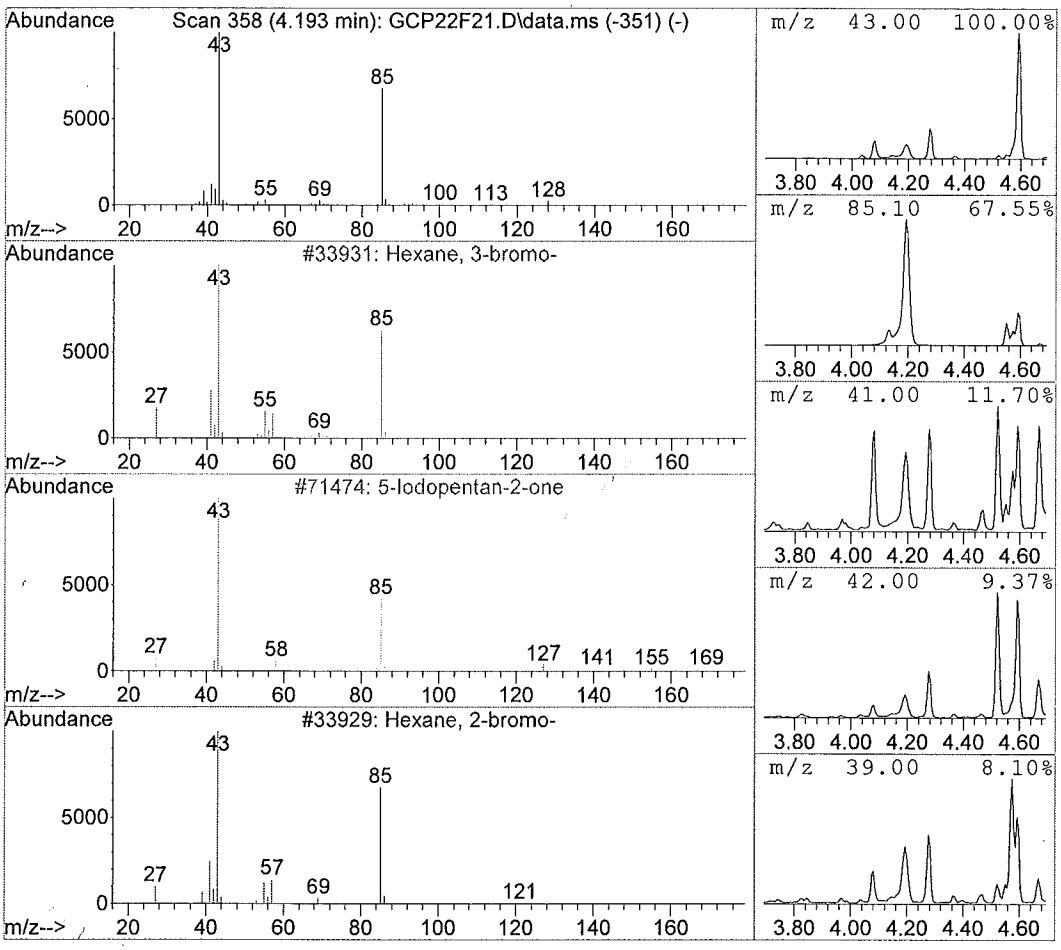
Data File : R:\G\2015\JUL15\10JUL15\GCP22F21.D
Acq On : 07/10/2015 21:59
Sample : 1515542021 F9M40
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 19
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
4.19	16.35 ug/ml	1968022	1,4-Dichlorobenzene-d4	2406786

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 3-bromo-	33931	003377-87-5	50.00
2	5-Iodopentan-2-one	71474	003695-29-2	39.00
3	Hexane, 2-bromo-	33929	003377-86-4	39.00
4	Oxalic acid, diisohexyl ester	108826	1000309-32-9	39.00
5	Hexane, 2,3,5-trimethyl-	12708	001069-53-0	28.00



Library Search Compound Report

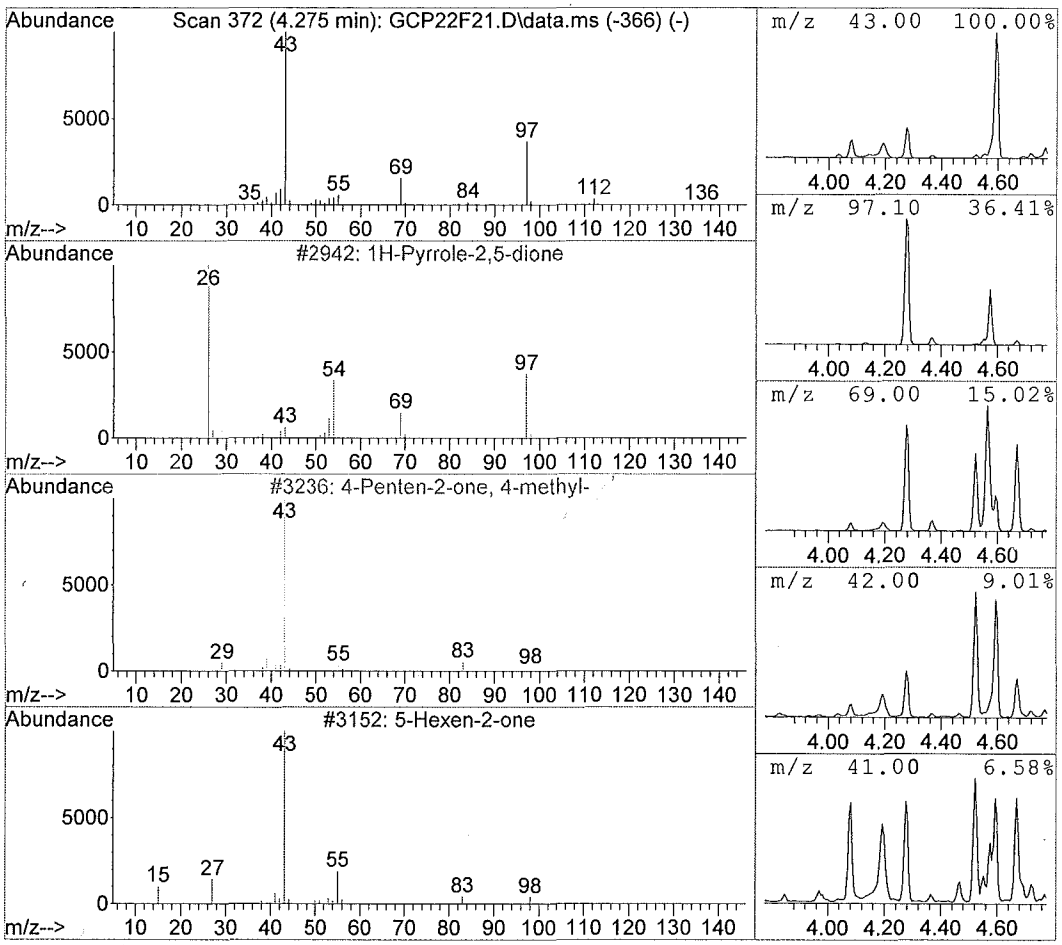
Data File : R:\G\2015\JUL15\10JUL15\GCP22F21.D
Acq On : 07/10/2015 21:59
Sample : 1515542021 F9M40
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 19
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	19.29 ug/ml	2321443	1,4-Dichlorobenzene-d4	2406786

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	37.00
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	5-Hexen-2-one, 5-methyl-	6517	003240-09-3	5.00
5	2-Propyn-1-ol, acetate	3098	000627-09-8	5.00



00543

Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP22F21.D
Acq On : 07/10/2015 21:59
Sample : 1515542021 F9M40
Misc : . SOIL SOM
MS Integration Params: rteint.p

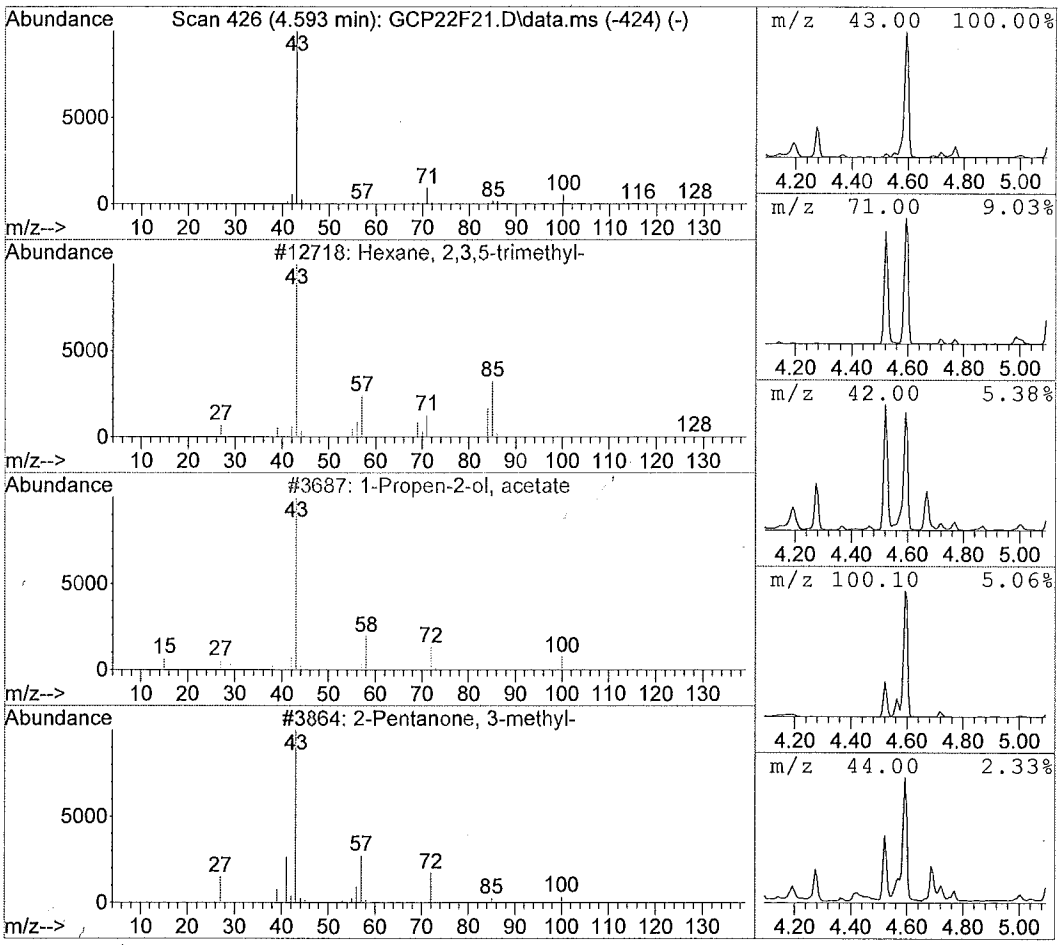
Vial: 19
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

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	49.06 ug/ml	5904411	1,4-Dichlorobenzene-d4	2406786

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	7.00
2	1-Propen-2-ol, acetate	3687	000108-22-5	5.00
3	2-Pentanone, 3-methyl-	3864	000565-61-7	5.00
4	Hexane, 2,3,4-trimethyl-	12706	000921-47-1	5.00
5	Heptane	3970	000142-82-5	5.00

BA



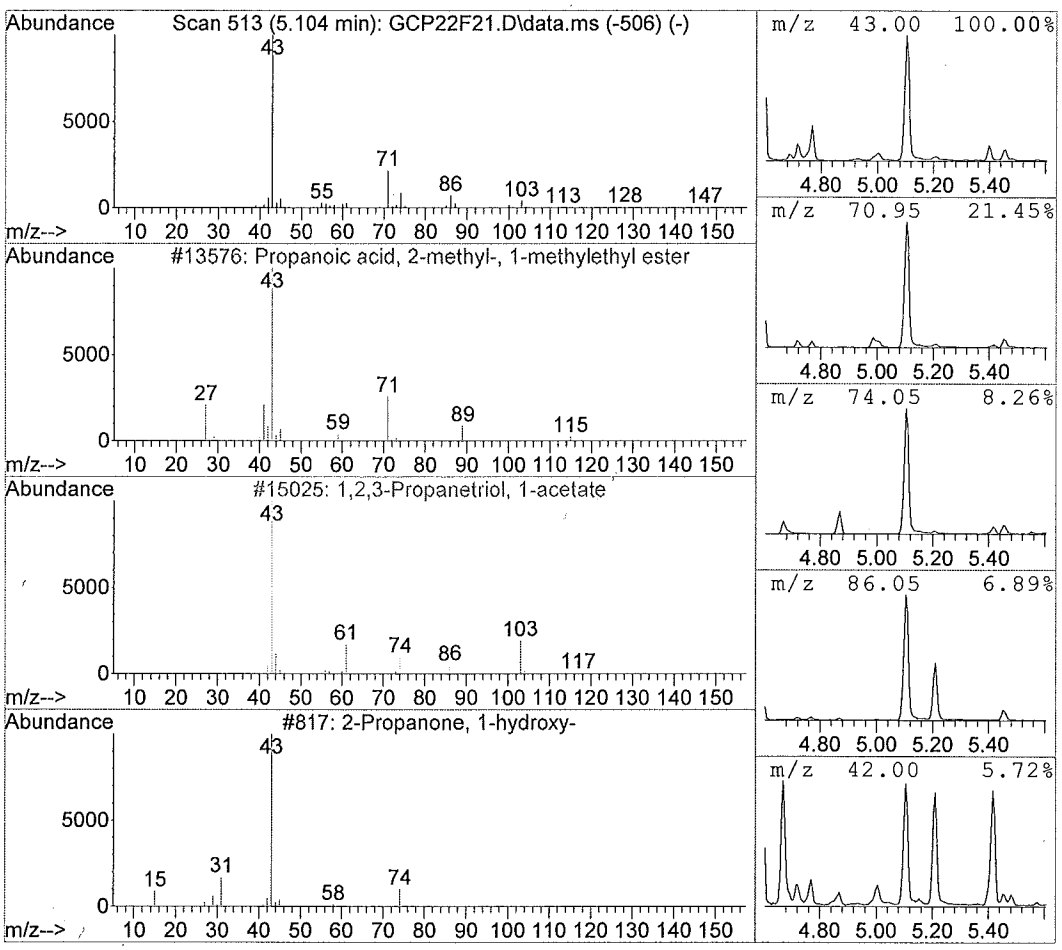
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP22F21.D Vial: 19
Acq On : 07/10/2015 21:59 Operator: TJM
Sample : 1515542021 F9M40 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
5.10	25.31 ug/ml	3045496	1,4-Dichlorobenzene-d4	2406786

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propanoic acid, 2-methyl-, 1-methyl	13576	000617-50-5	28.00
2	1,2,3-Propanetriol, 1-acetate	15025	000106-61-6	23.00
3	2-Propanone, 1-hydroxy-	817	000116-09-6	22.00
4	Ethanone, 1-oxiranyl-	1669	004401-11-0	10.00
5	Butanal, 2-ethyl-	3806	000097-96-1	9.00



Library Search Compound Report

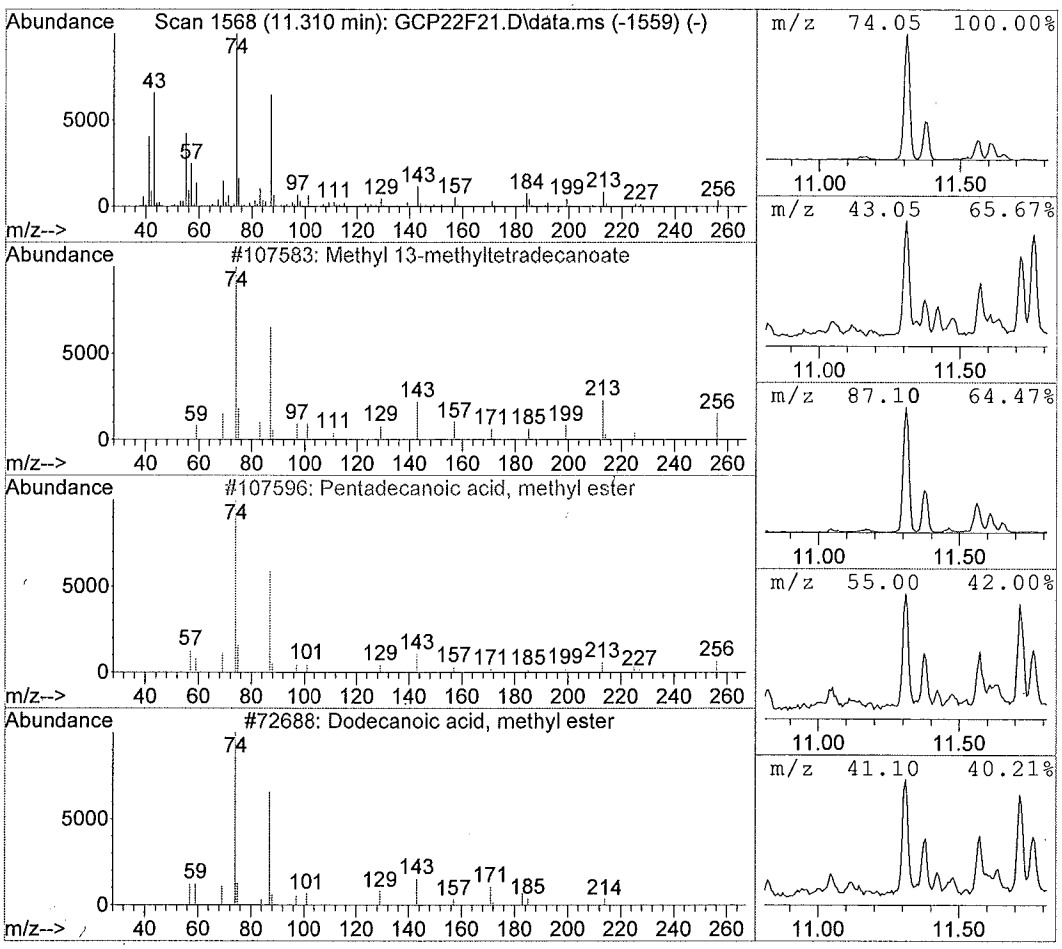
Data File : R:\G\2015\JUL15\10JUL15\GCP22F21.D
Acq On : 07/10/2015 21:59
Sample : 1515542021 F9M40
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 19
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	6.08 ug/ml	890117	Phenanthrene-d10	2928960

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Methyl 13-methyltetradecanoate	107583	1000336-31-4	97.00
2	Pentadecanoic acid, methyl ester	107596	007132-64-1	87.00
3	Dodecanoic acid, methyl ester	72688	000111-82-0	87.00
4	Pentadecanoic acid, 14-methyl-, met	119423	005129-60-2	87.00
5	Hexadecanoic acid, 15-methyl-, meth	131317	006929-04-0	87.00



Library Search Compound Report

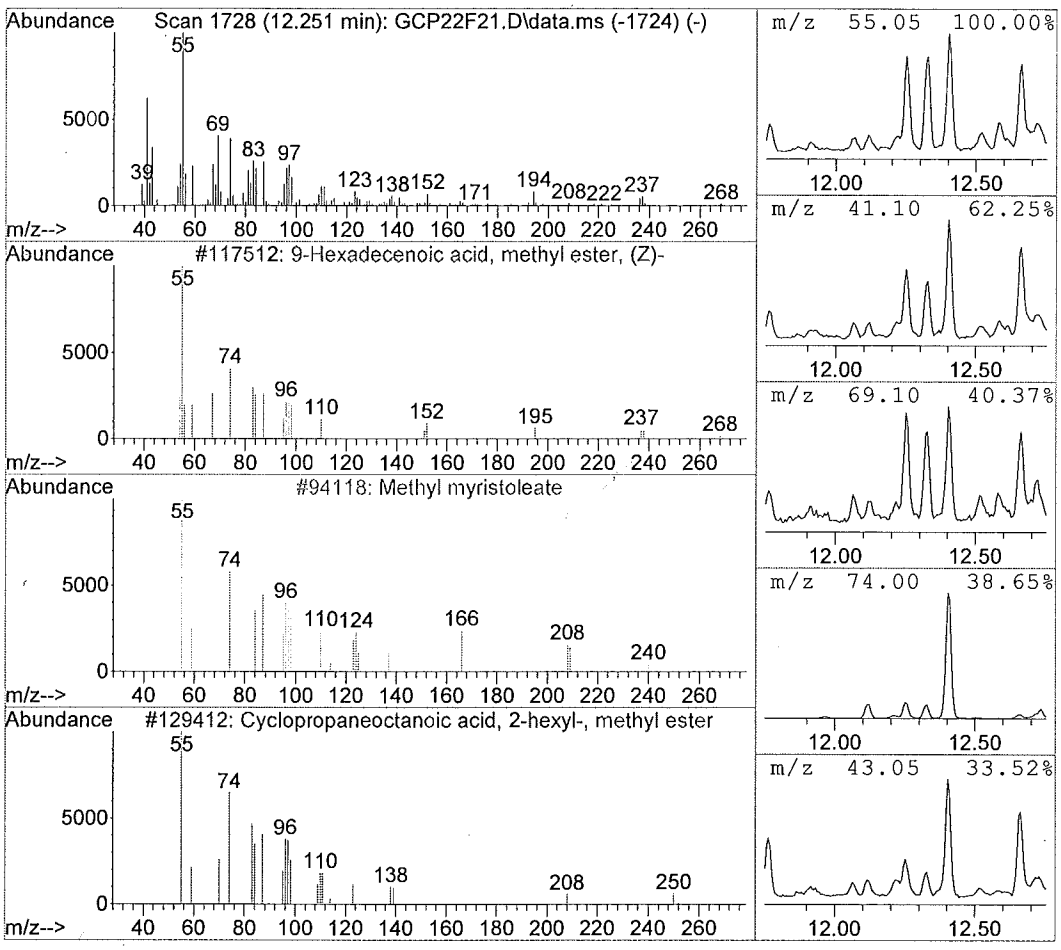
Data File : R:\G\2015\JUL15\10JUL15\GCP22F21.D
Acq On : 07/10/2015 21:59
Sample : 1515542021 F9M40
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 19
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	4.44 ug/ml	649537	Phenanthrene-d10	2928960

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Hexadecenoic acid, methyl ester,	117512	001120-25-8	94.00
2	Methyl myristoleate	94118	056219-06-8	80.00
3	Cyclopropaneoctanoic acid, 2-hexyl-	129412	010152-61-1	80.00
4	Methyl 11-hexadecenoate	117465	1000336-35-5	74.00
5	7-Hexadecenoic acid, methyl ester,	117506	056875-67-3	74.00



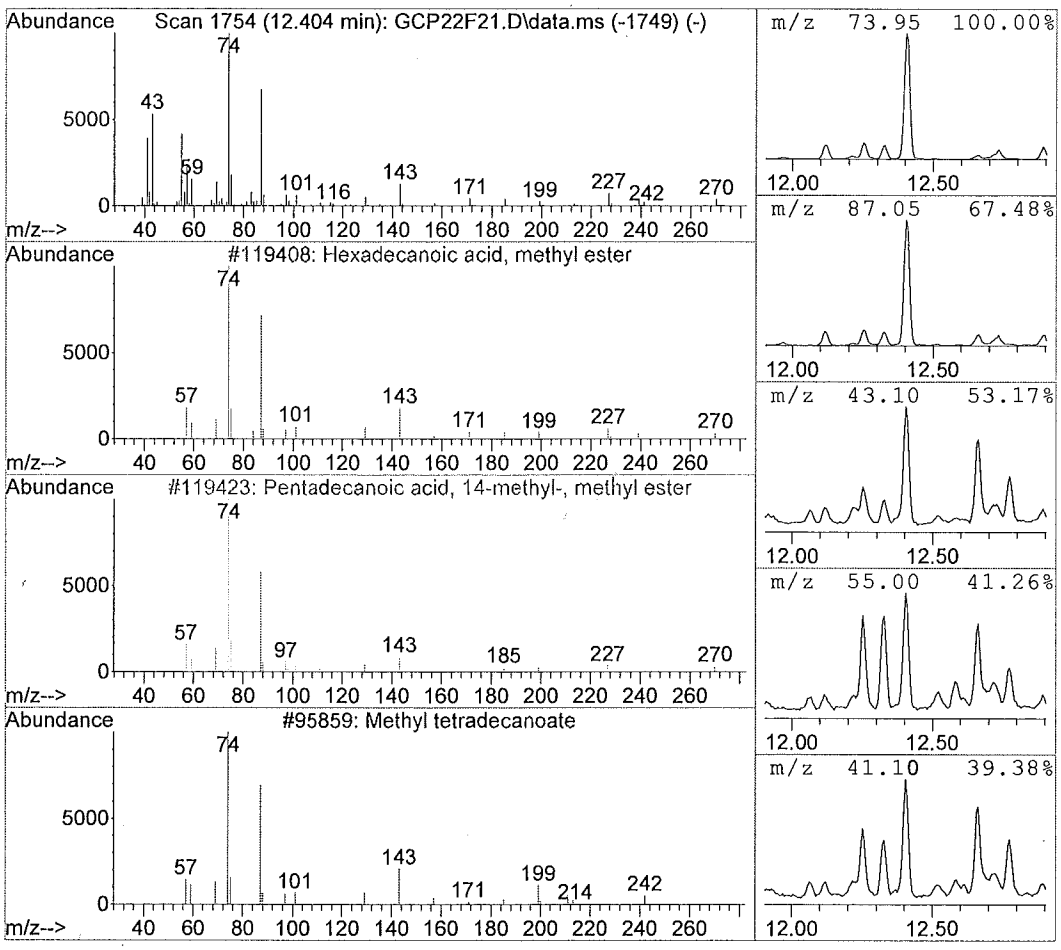
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP22F21.D Vial: 19
Acq On : 07/10/2015 21:59 Operator: TJM
Sample : 1515542021 F9M40 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	8.43 ug/ml	1234226	Phenanthrene-d10	2928960

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanoic acid, methyl ester	119408	000112-39-0	97.00
2	Pentadecanoic acid, 14-methyl-, met	119423	005129-60-2	95.00
3	Methyl tetradecanoate	95859	000124-10-7	91.00
4	Tridecanoic acid, methyl ester	84485	001731-88-0	91.00
5	Dodecanoic acid, methyl ester	72688	000111-82-0	87.00



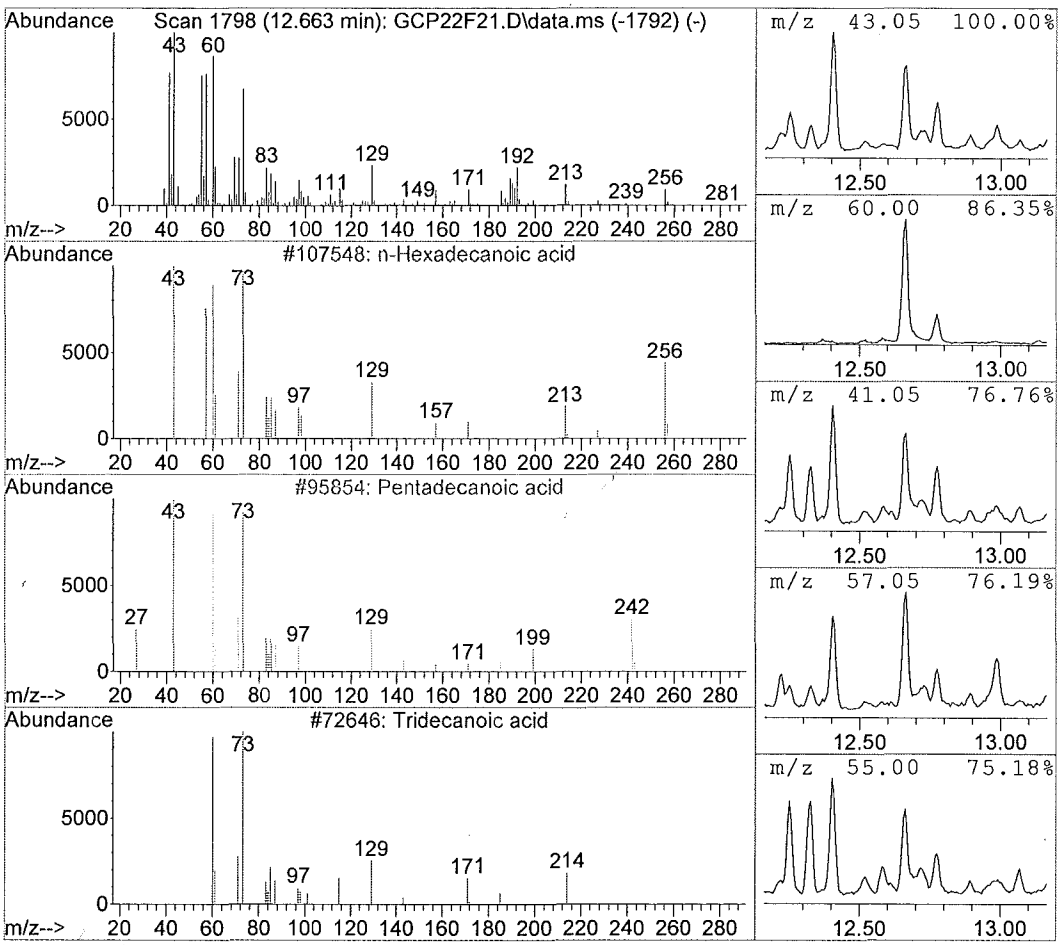
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP22F21.D Vial: 19
Acq On : 07/10/2015 21:59 Operator: TJM
Sample : 1515542021 F9M40 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	8.11 ug/ml	1188323	Phenanthrene-d10	2928960

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	n-Hexadecanoic acid	107548	000057-10-3	97.00
2	Pentadecanoic acid	95854	001002-84-2	52.00
3	Tridecanoic acid	72646	000638-53-9	49.00
4	Tetradecanoic acid	84453	000544-63-8	43.00
5	Undecanoic acid	50051	000112-37-8	43.00



Library Search Compound Report

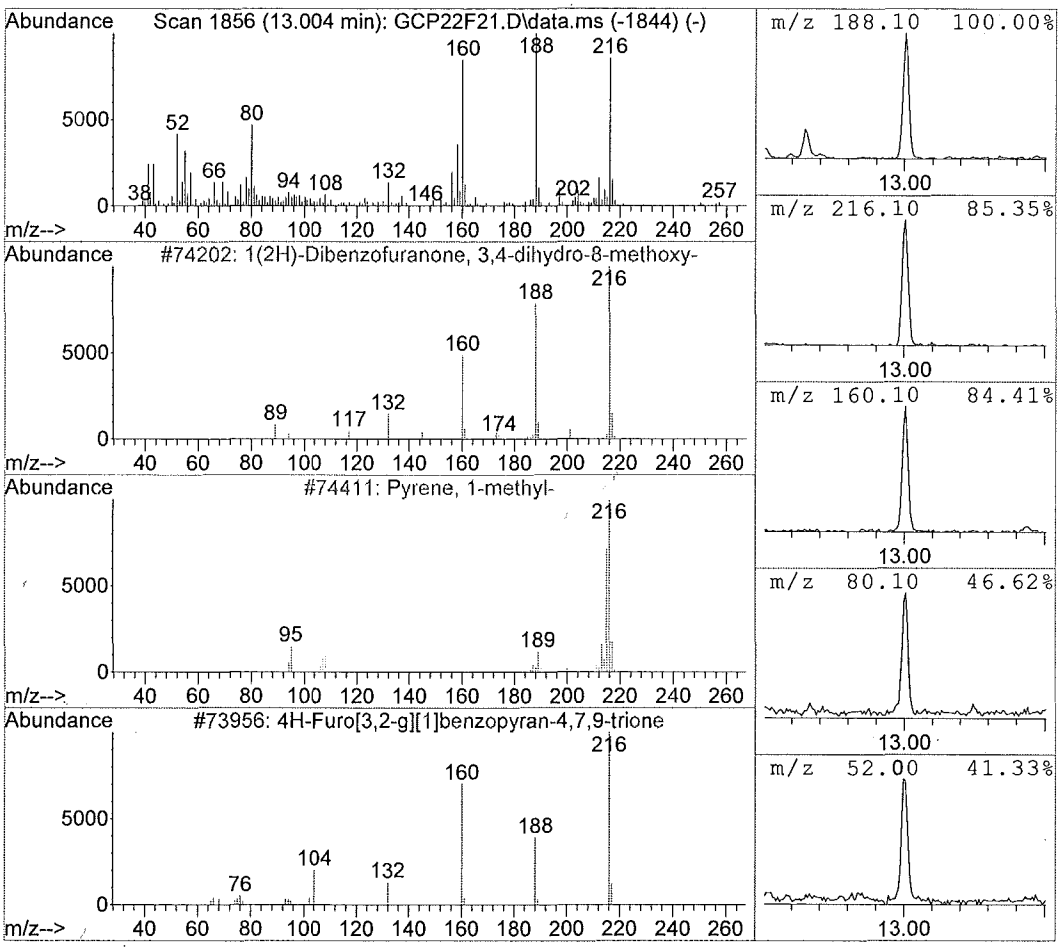
Data File : R:\G\2015\JUL15\10JUL15\GCP22F21.D
Acq On : 07/10/2015 21:59
Sample : 1515542021 F9M40
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 19
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	4.82 ug/ml	706362	Phenanthrene-d10	2928960

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1(2H)-Dibenzofuranone, 3,4-dihydro-	74202	095338-40-2	30.00
2	Pyrene, 1-methyl-	74411	002381-21-7	25.00
3	4H-Furo[3,2-g][1]benzopyran-4,7,9-t	73956	000483-36-3	25.00
4	5H-[1]Benzopyrano[3,4-b]pyridin-5-o	74033	1000337-92-0	22.00
5	11H-Benzo[b]fluorene	74422	000243-17-4	20.00



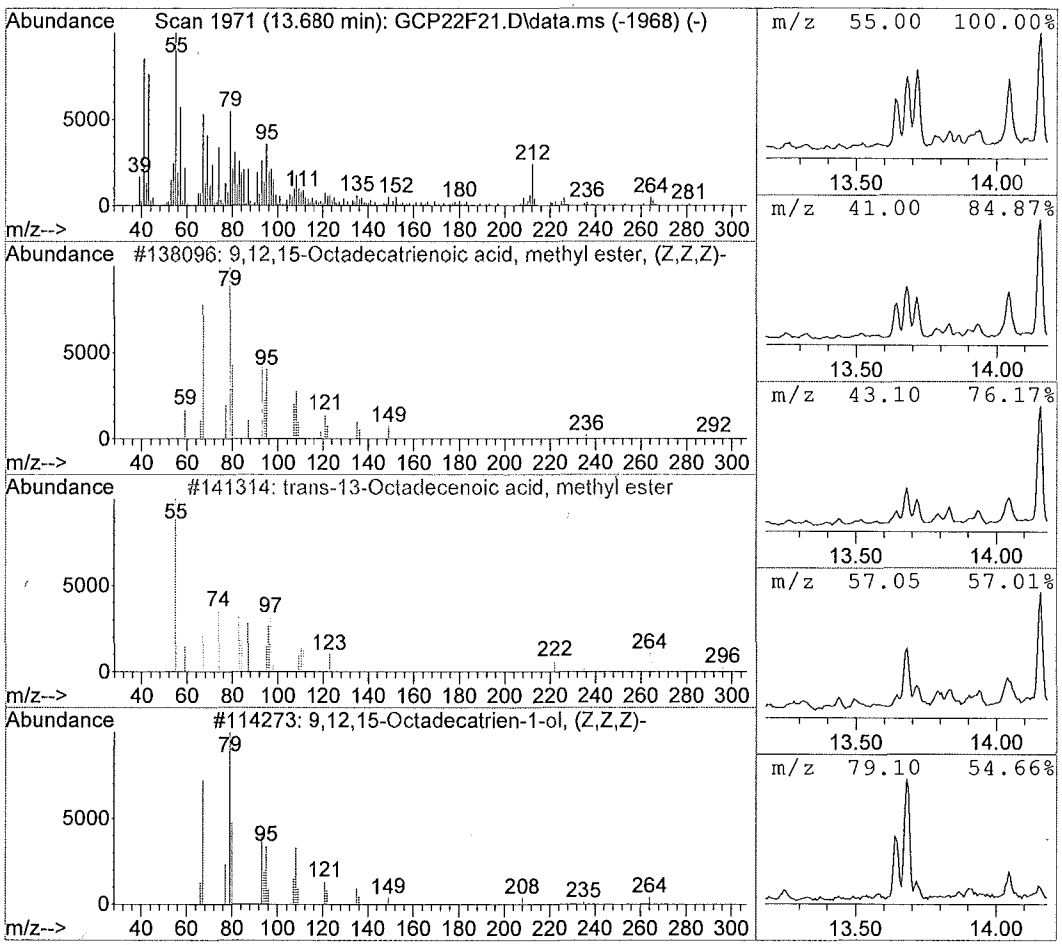
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP22F21.D Vial: 19
Acq On : 07/10/2015 21:59 Operator: TJM
Sample : 1515542021 F9M40 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	4.18 ug/ml	932451	Chrysene-d12	4463981

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9,12,15-Octadecatrienoic acid, meth	138096	000301-00-8	96.00
2	trans-13-Octadecenoic acid, methyl	141314	1000333-61-3	92.00
3	9,12,15-Octadecatrien-1-ol, (Z,Z,Z)	114273	000506-44-5	81.00
4	13-Octadecenoic acid, methyl ester	141286	056554-47-3	64.00
5	4-Hexadecen-6-yne, (E)-	77677	074744-51-7	50.00



Library Search Compound Report

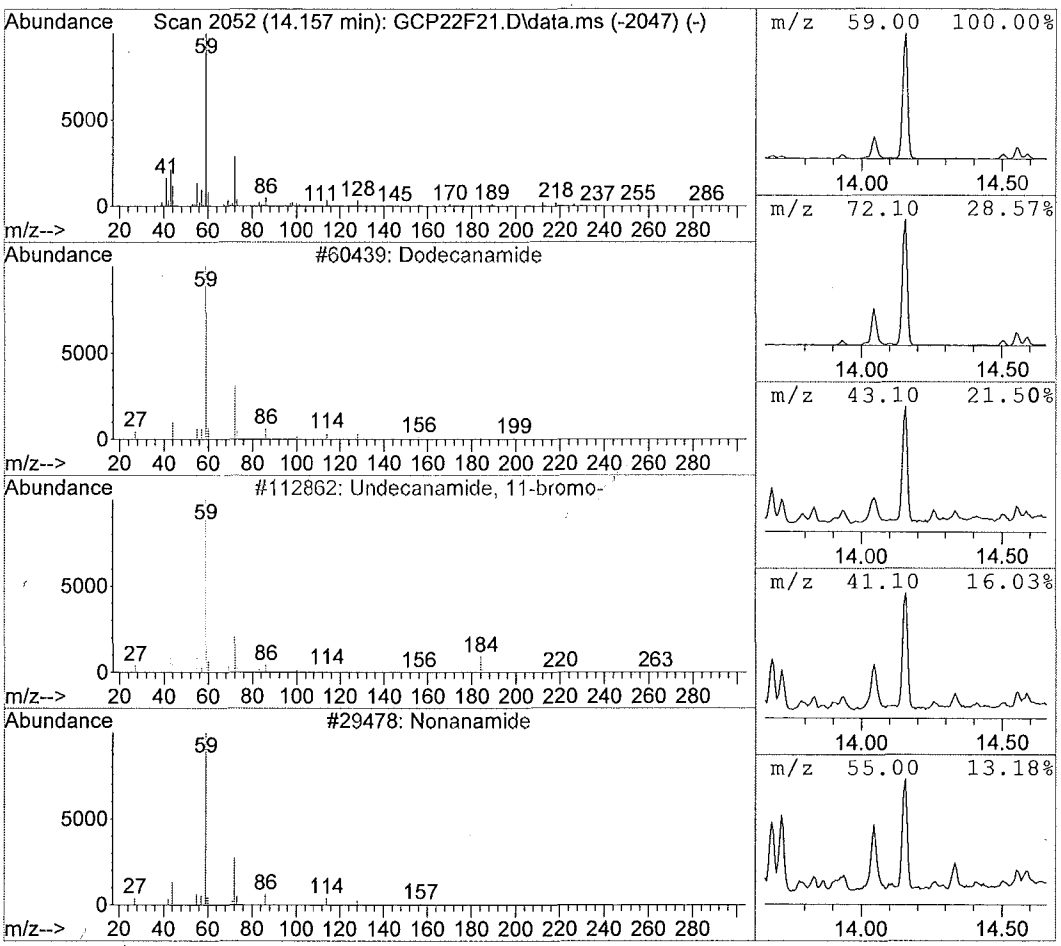
Data File : R:\G\2015\JUL15\10JUL15\GCP22F21.D
Acq On : 07/10/2015 21:59
Sample : 1515542021 F9M40
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 19
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
14.16	9.70 ug/ml	2164814	Chrysene-d12	4463981

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	90.00
2	Undecanamide, 11-bromo-	112862	005875-26-3	86.00
3	Nonanamide	29478	001120-07-6	78.00
4	Tetradecanamide	83609	000638-58-4	78.00
5	Decanamide-	38977	002319-29-1	74.00



Library Search Compound Report

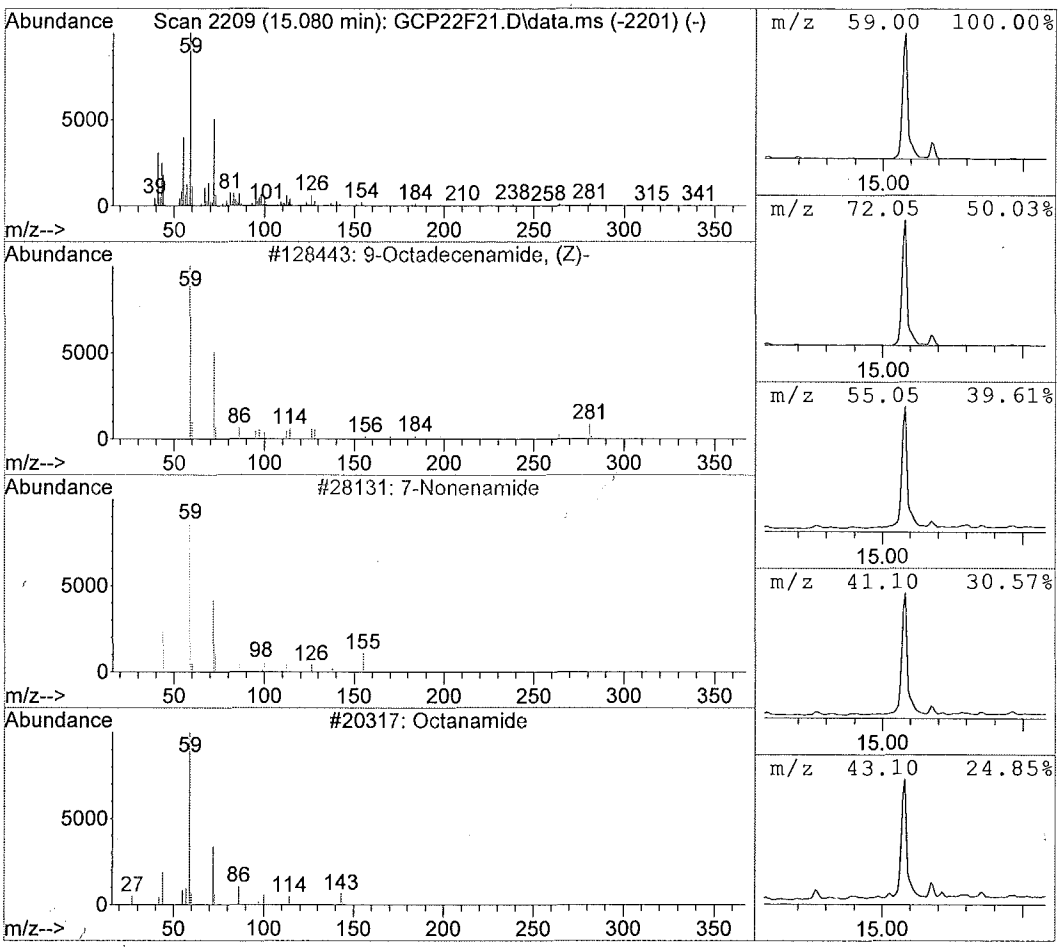
Data File : R:\G\2015\JUL15\10JUL15\GCP22F21.D
Acq On : 07/10/2015 21:59
Sample : 1515542021 F9M40
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 19
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
15.08	44.14 ug/ml	9852166	Chrysene-d12	4463981

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	Octanamide	20317	000629-01-6	72.00
4	Hexadecanamide	106564	000629-54-9	64.00
5	Pentanamide	4064	000626-97-1	59.00



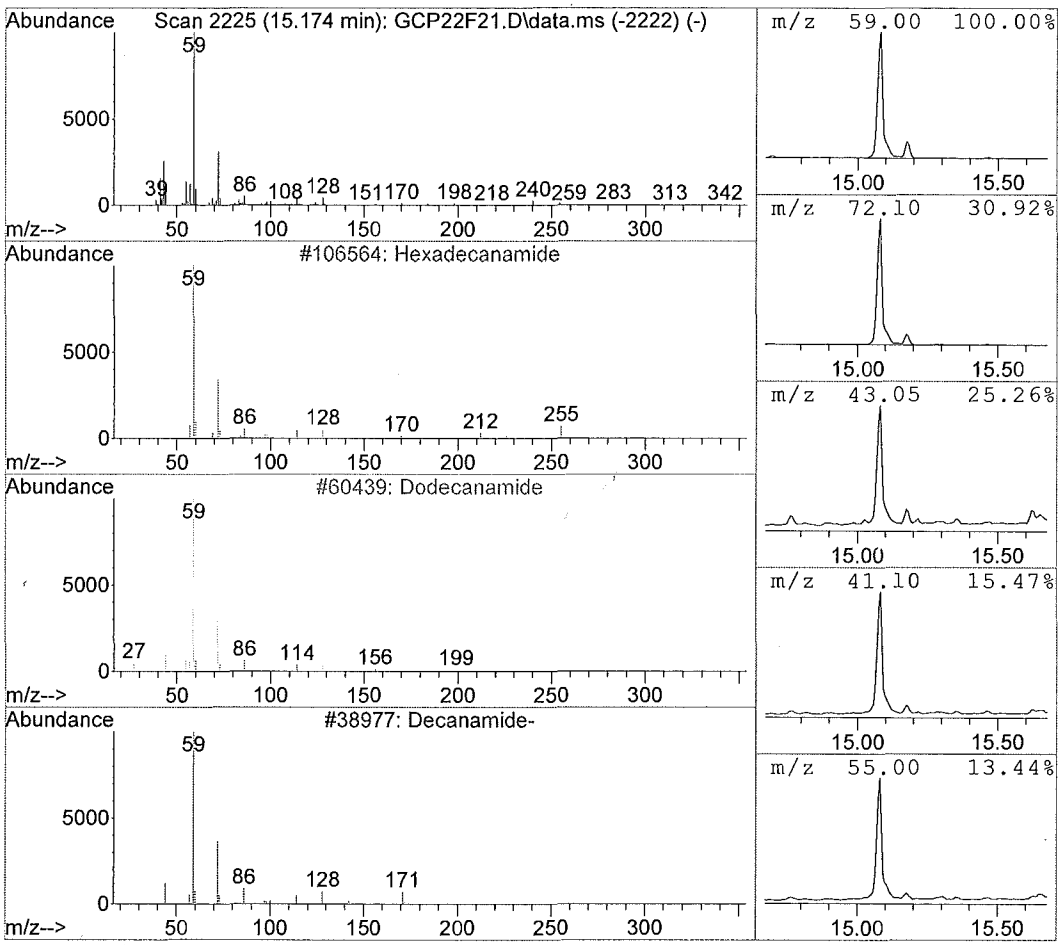
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP22F21.D Vial: 19
Acq On : 07/10/2015 21:59 Operator: TJM
Sample : 1515542021 F9M40 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	2.81 ug/ml	627970	Chrysene-d12	4463981

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	90.00
2	Dodecanamide	60439	001120-16-7	83.00
3	Decanamide-	38977	002319-29-1	83.00
4	Tetradecanamide	83609	000638-58-4	78.00
5	Undecanamide, 11-bromo-	112862	005875-26-3	78.00



Library Search Compound Report

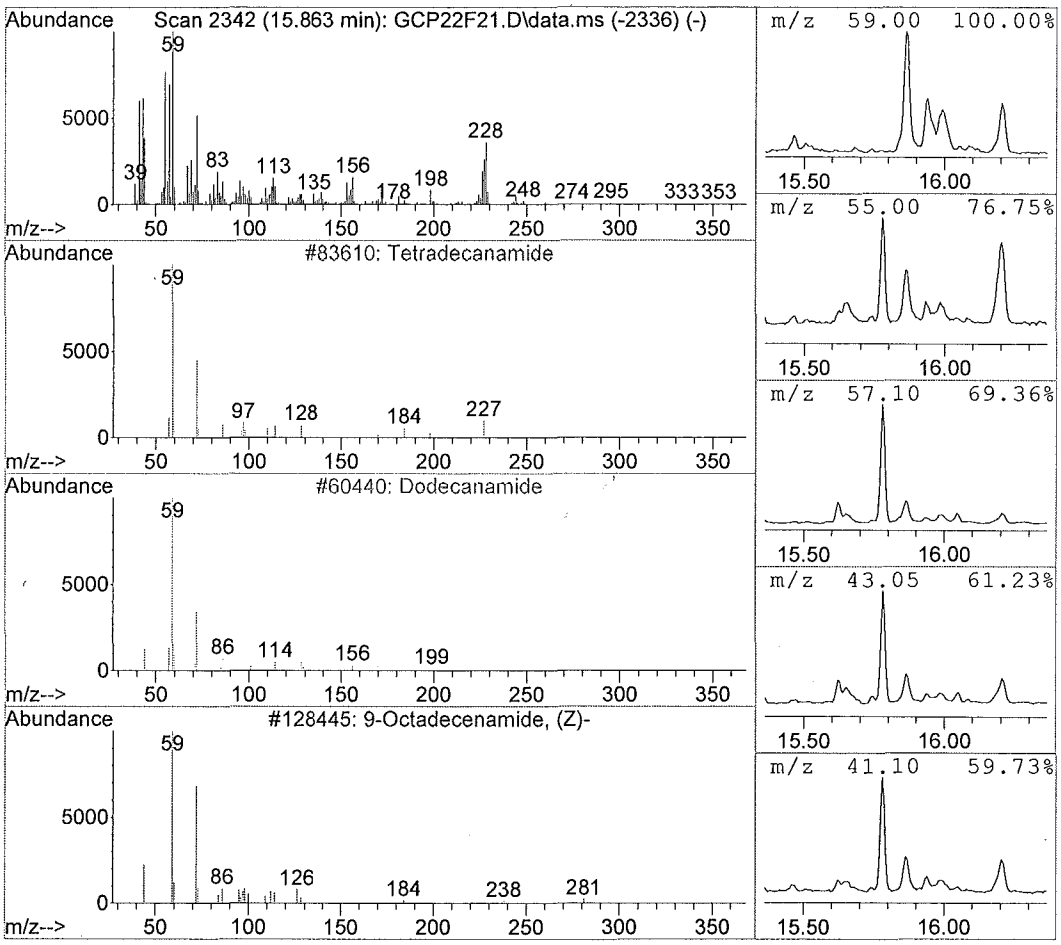
Data File : R:\G\2015\JUL15\10JUL15\GCP22F21.D
Acq On : 07/10/2015 21:59
Sample : 1515542021 F9M40
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 19
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	6.86 ug/ml	1531948	Chrysene-d12	4463981

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83610	000638-58-4	78.00
2	Dodecanamide	60440	001120-16-7	46.00
3	9-Octadecenamide, (Z)-	128445	000301-02-0	43.00
4	Hexanamide	7793	000628-02-4	43.00
5	4-Cyclohexylbutyramide	37471	004441-62-7	43.00



Library Search Compound Report

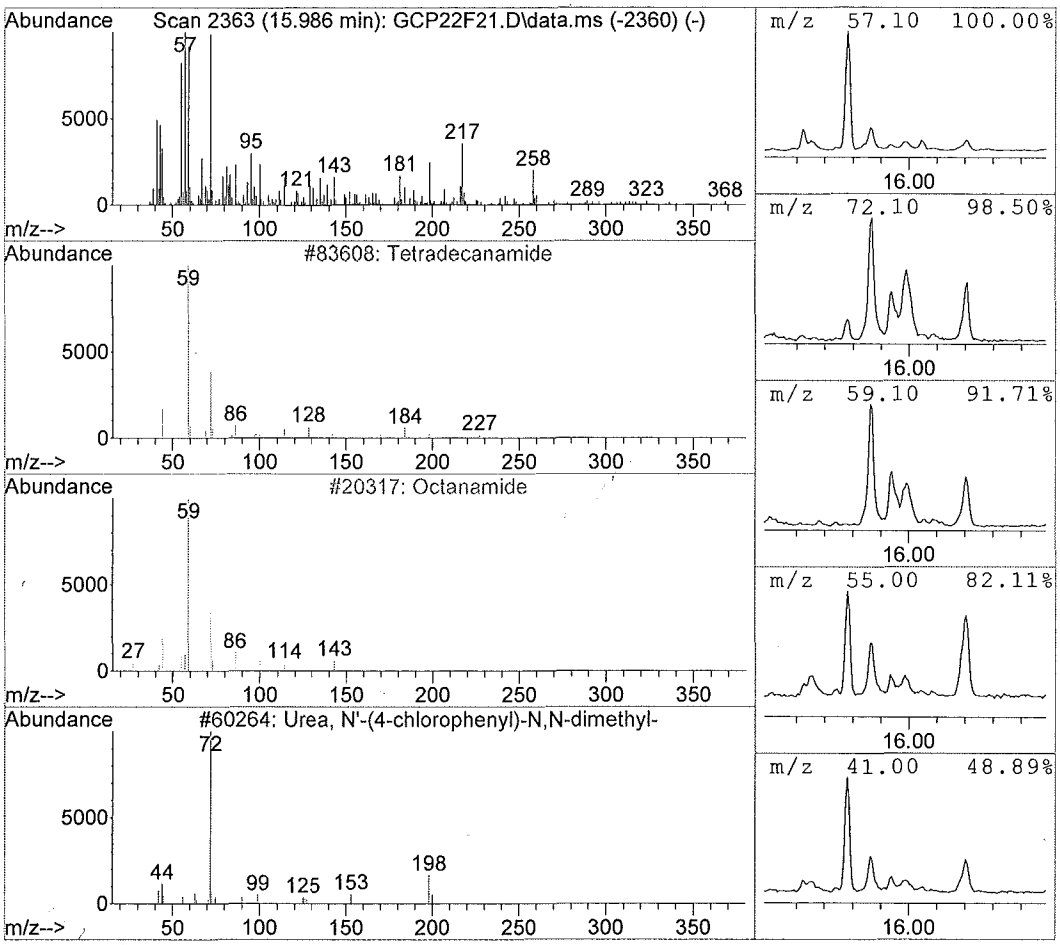
Data File : R:\G\2015\JUL15\10JUL15\GCP22F21.D
Acq On : 07/10/2015 21:59
Sample : 1515542021 F9M40
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 19
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
15.99	2.86 ug/ml	638739	Chrysene-d12	4463981

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83608	000638-58-4	38.00
2	Octanamide	20317	000629-01-6	35.00
3	Urea, N'-(4-chlorophenyl)-N,N-dimet	60264	000150-68-5	25.00
4	Urea, N'-(3-chlorophenyl)-N,N-dimet	60262	000587-34-8	22.00
5	Dodecanoylhydrazide, N2-(1-methylpe	141211	1000262-91-8	18.00



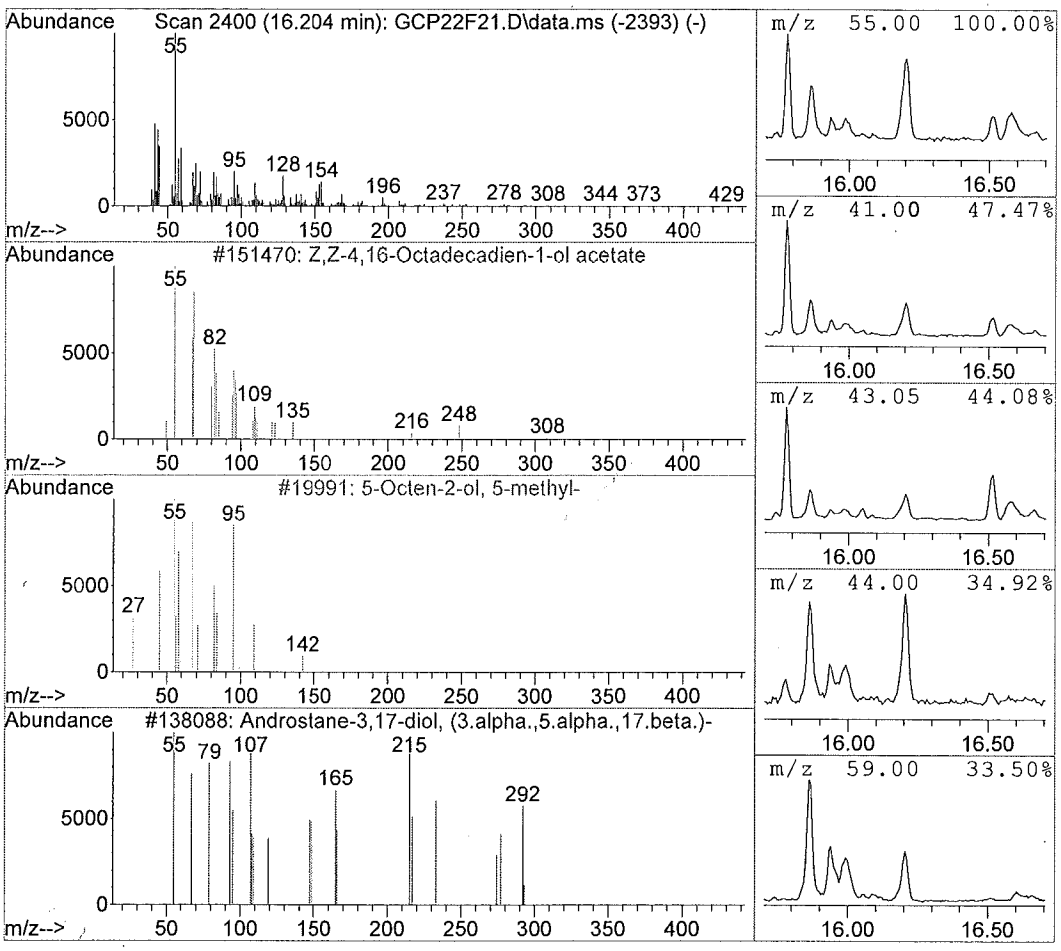
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP22F21.D Vial: 19
Acq On : 07/10/2015 21:59 Operator: TJM
Sample : 1515542021 F9M40 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	7.01 ug/ml	1563578	Chrysene-d12	4463981

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Z,Z-4,16-Octadecadien-1-ol acetate	151470	1000130-95-7	30.00
2	5-Octen-2-ol, 5-methyl-	19991	118989-20-1	22.00
3	Androstane-3,17-diol, (3.alpha.,5.a	138088	001852-53-5	18.00
4	6-Nitroundec-5-ene	60376	1000192-40-3	14.00
5	6,7-Dioxabicyclo[3.2.2]nonane	12239	000283-35-2	14.00



Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP22F21.D
Acq On : 07/10/2015 21:59
Sample : 1515542021 F9M40
Misc : . SOIL SOM
MS Integration Params: rteint.p

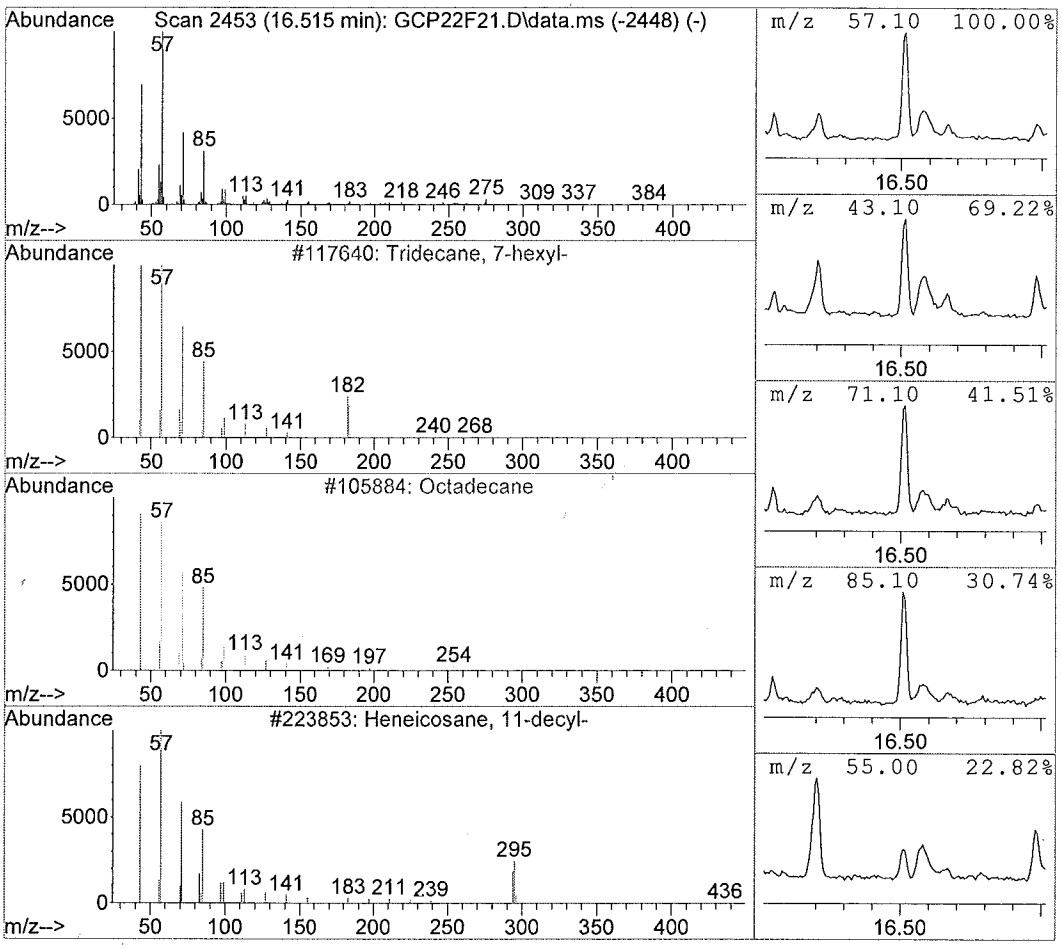
Vial: 19
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

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
16.52	3.70 ug/ml	826022	Chrysene-d12	4463981

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tridecane, 7-hexyl-	117640	007225-66-3	94.00
2	Octadecane	105884	000593-45-3	93.00
3	Heneicosane, 11-decyl-	223853	055320-06-4	86.00
4	Heptacosane	202662	000593-49-7	83.00
5	Docosane, 9-butyl-	194496	055282-14-9	80.00

BA



00658

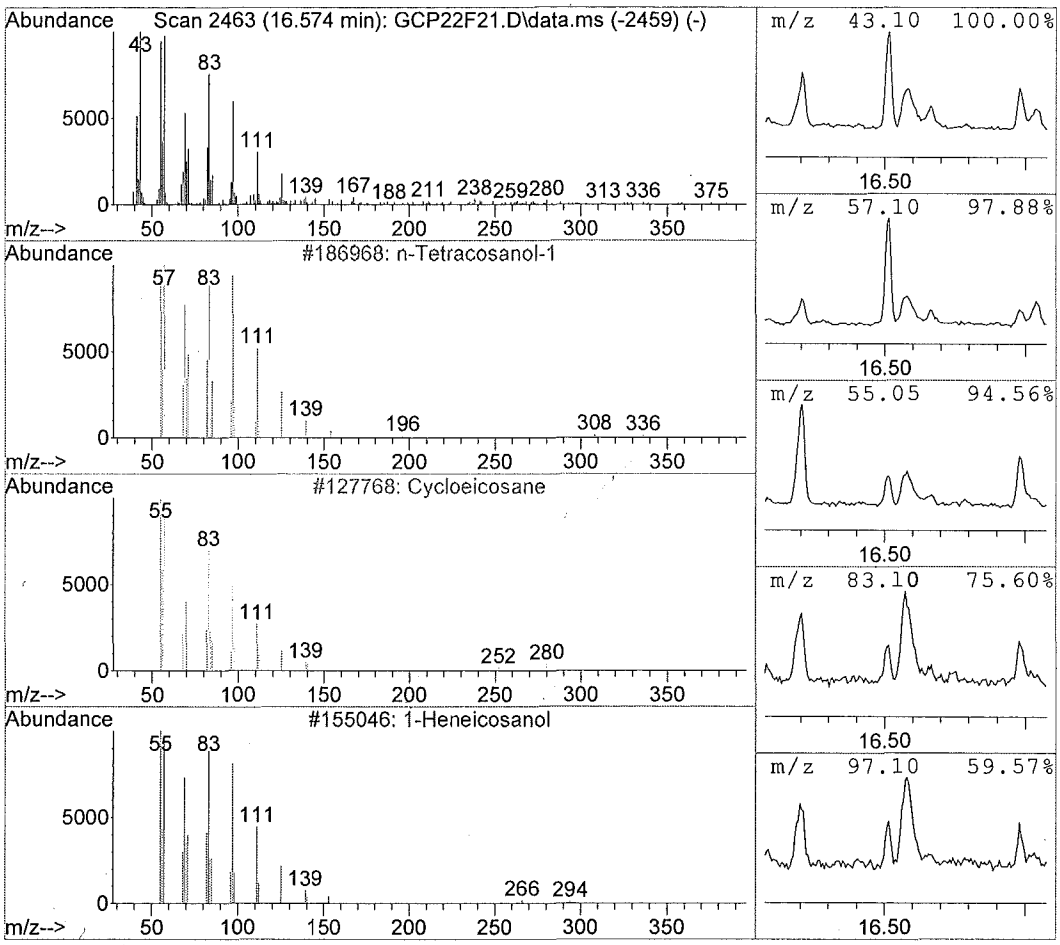
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP22F21.D Vial: 19
Acq On : 07/10/2015 21:59 Operator: TJM
Sample : 1515542021 F9M40 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
16.57	3.26 ug/ml	726521	Chrysene-d12	4463981

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	n-Tetracosanol-1	186968	000506-51-4	91.00
2	Cycloeicosane	127768	000296-56-0	81.00
3	1-Heneicosanol	155046	015594-90-8	72.00
4	1-Docosene	151538	001599-67-3	72.00
5	9-Eicosene, (E)-	127770	074685-29-3	68.00



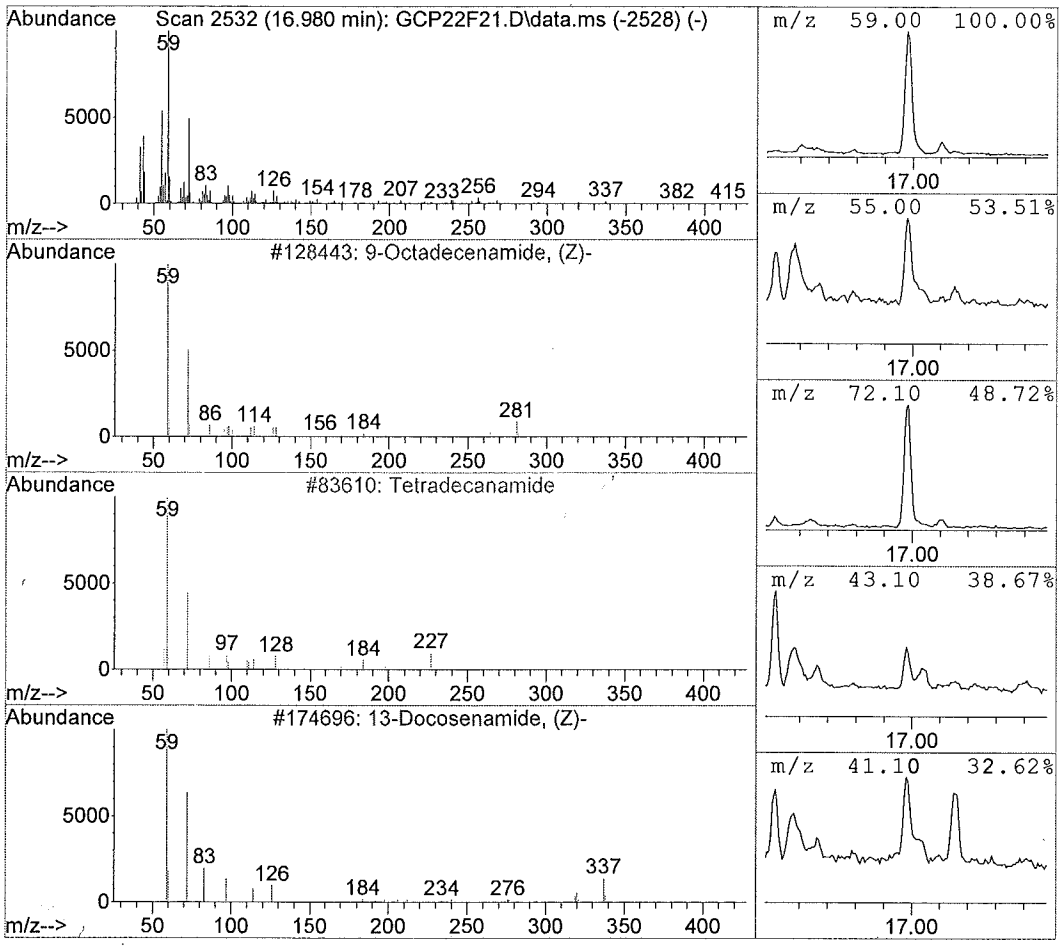
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP22F21.D Vial: 19
Acq On : 07/10/2015 21:59 Operator: TJM
Sample : 1515542021 F9M40 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	9.47 ug/ml	851892	Perylene-d12	1799454

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	80.00
2	Tetradecanamide	83610	000638-58-4	78.00
3	13-Docosenamide, (Z)-	174696	000112-84-5	78.00
4	Hexadecanamide	106565	000629-54-9	72.00
5	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	64.00



Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP22F21.D
Acq On : 07/10/2015 21:59
Sample : 1515542021 F9M40
Misc : . SOIL SOM
MS Integration Params: rteint.p

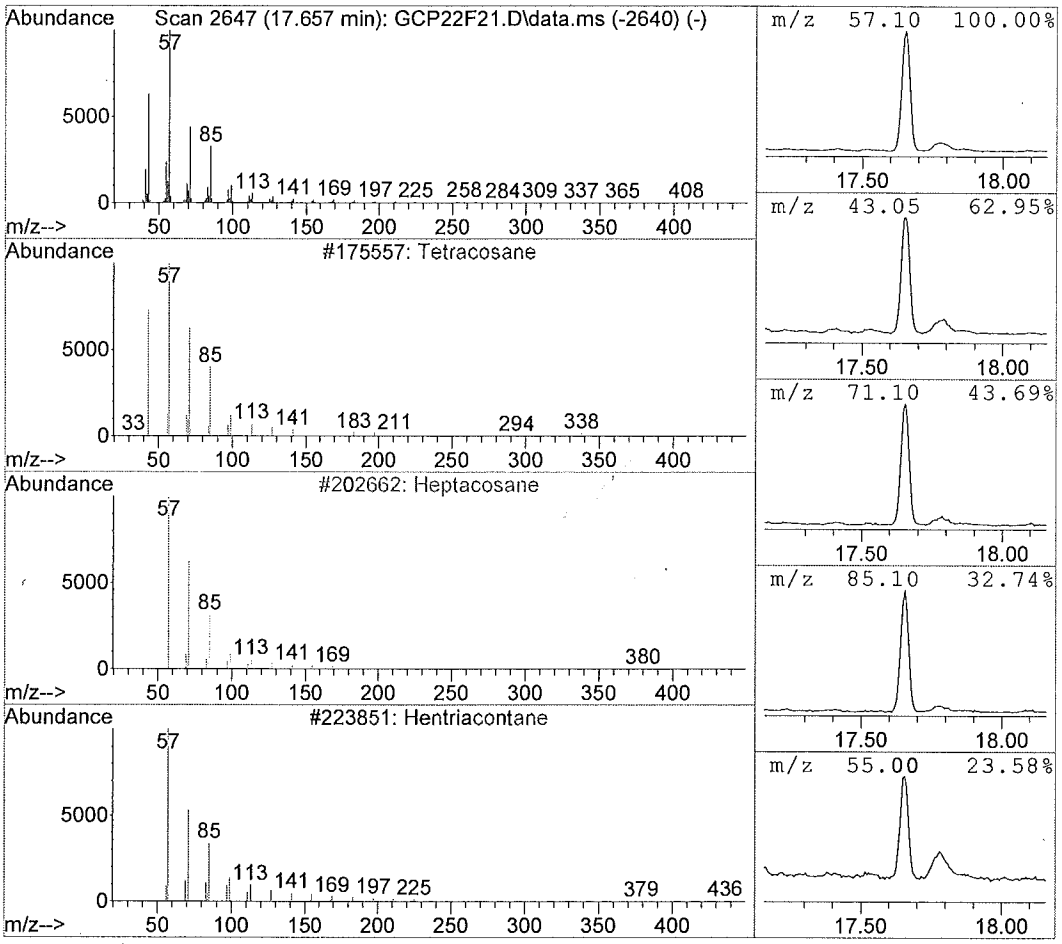
Vial: 19
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

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	38.00 ug/ml	3419348	Perylene-d12	1799454

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetracosane	175557	000646-31-1	91.00
2	Heptacosane	202662	000593-49-7	91.00
3	Hentriacontane	223851	000630-04-6	90.00
4	Sulfurous acid, butyl undecyl ester	137567	1000309-17-8	90.00
5	Heneicosane	141425	000629-94-7	87.00

SCA



: 00661

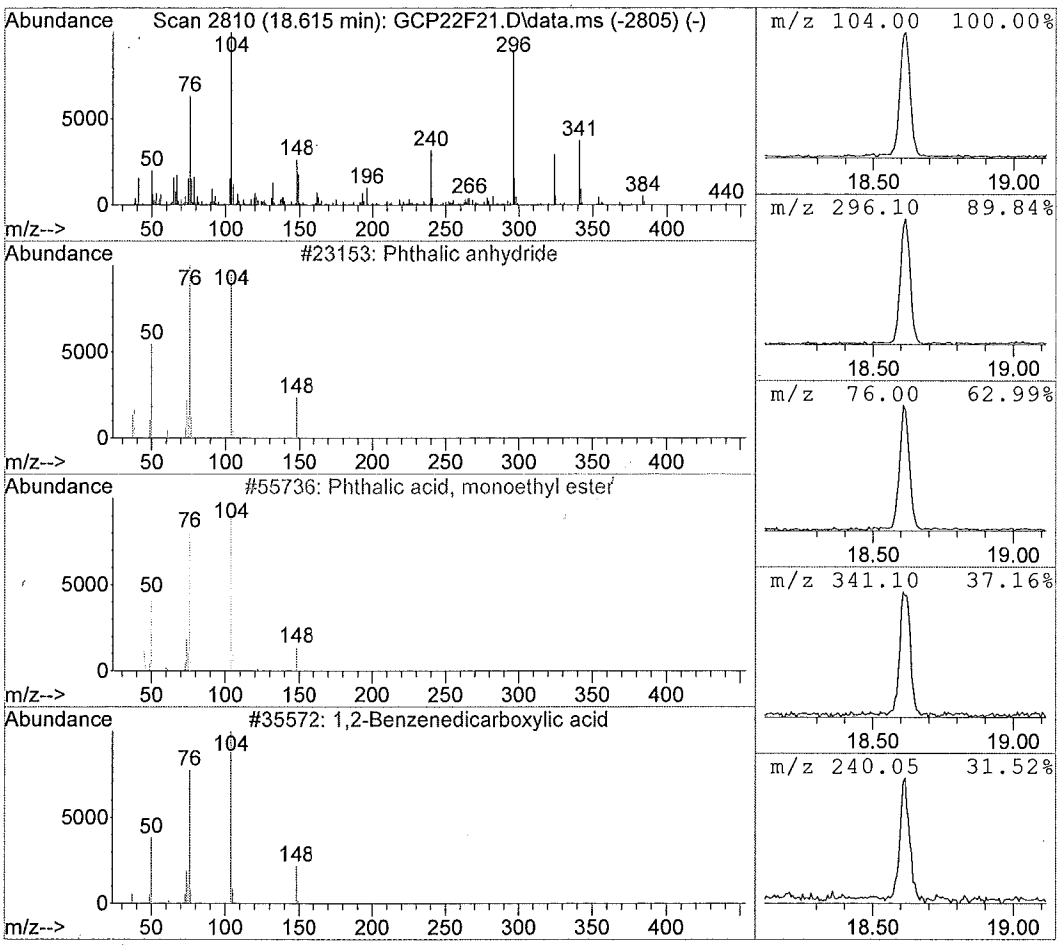
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP22F21.D Vial: 19
Acq On : 07/10/2015 21:59 Operator: TJM
Sample : 1515542021 F9M40 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	8.78 ug/ml	790252	Perylene-d12	1799454

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	23153	000085-44-9	35.00
2	Phthalic acid, monoethyl ester	55736	002306-33-4	35.00
3	1,2-Benzenedicarboxylic acid	35572	000088-99-3	25.00
4	Pyrimidine-2,4,6(1H,3H,5H)-trione,	140864	331739-56-1	22.00
5	Isoindole-5-carboxylic acid, 1,3-di	140866	333340-81-1	18.00



Library Search Compound Report

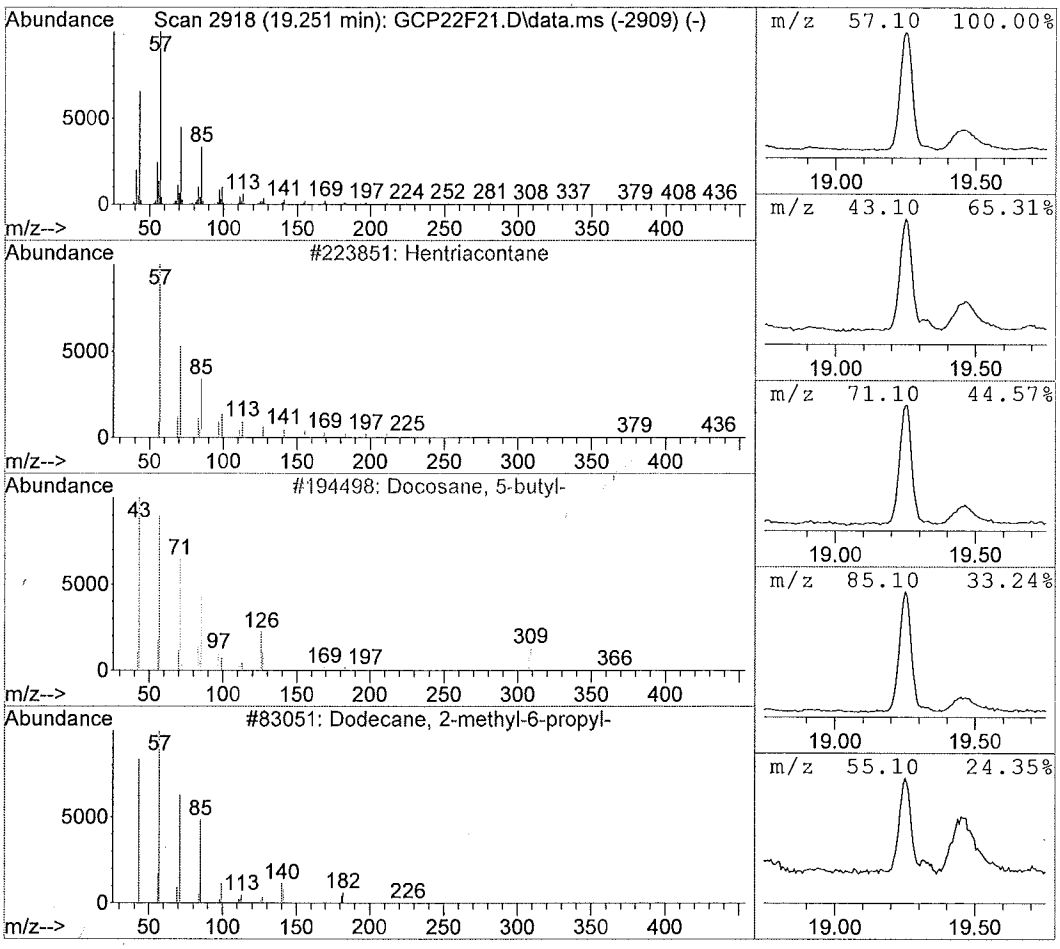
Data File : R:\G\2015\JUL15\10JUL15\GCP22F21.D Vial: 19
Acq On : 07/10/2015 21:59 Operator: TJM
Sample : 1515542021 F9M40 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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
19.25	31.57 ug/ml	2840836	Perylene-d12	1799454

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hentriacontane	223851	000630-04-6	96.00
2	Docosane, 5-butyl-	194498	055282-16-1	93.00
3	Dodecane, 2-methyl-6-propyl-	83051	055045-08-4	91.00
4	Docosane, 11-butyl-	194501	013475-76-8	91.00
5	Docosane, 9-butyl-	194496	055282-14-9	91.00

SCA



Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP22F21.D
Acq On : 07/10/2015 21:59
Sample : 1515542021 F9M40
Misc : . SOIL SOM
MS Integration Params: rteint.p

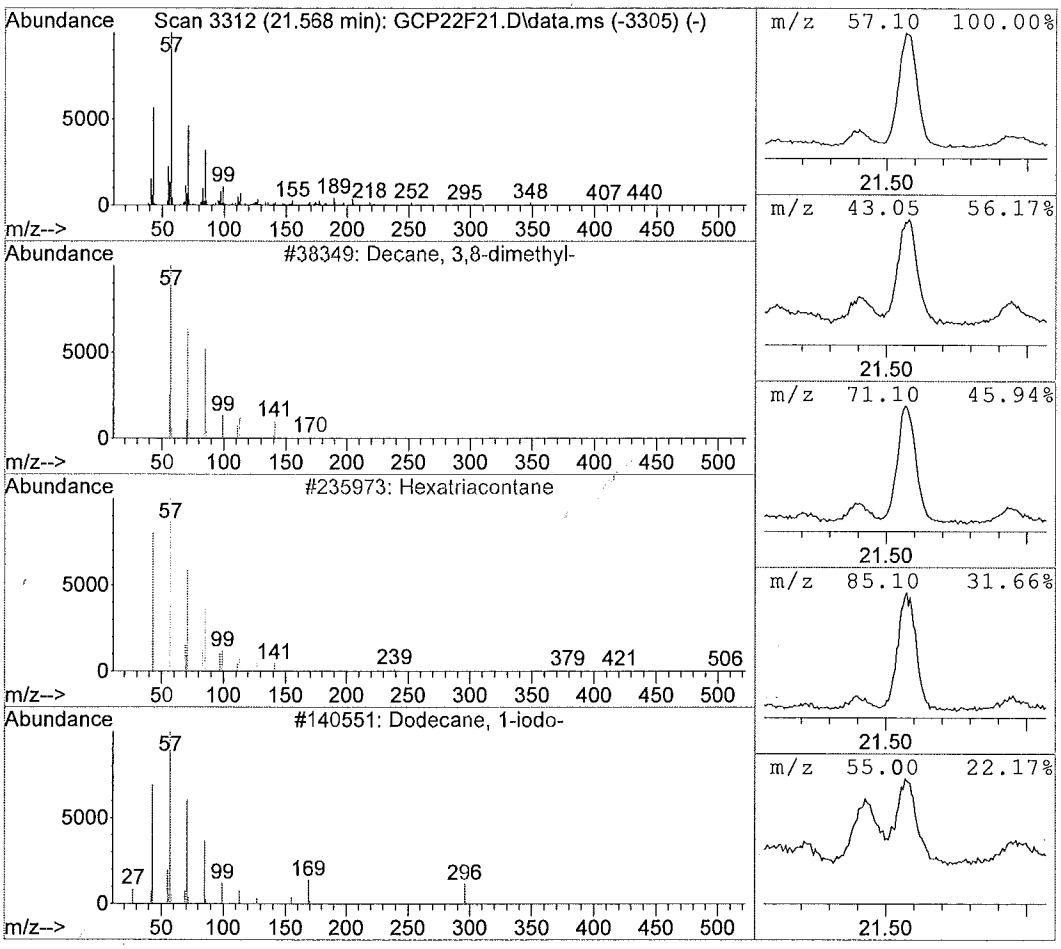
Vial: 19
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

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
21.57	30.29 ug/ml	2725677	Perylene-d12	1799454

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Decane, 3,8-dimethyl-	38349	017312-55-9	83.00
2	Hexatriacontane	235973	000630-06-8	80.00
3	Dodecane, 1-iodo-	140551	004292-19-7	80.00
4	Eicosane	129492	000112-95-8	80.00
5	Hexadecane	83025	000544-76-3	80.00

RA



Library Search Compound Report

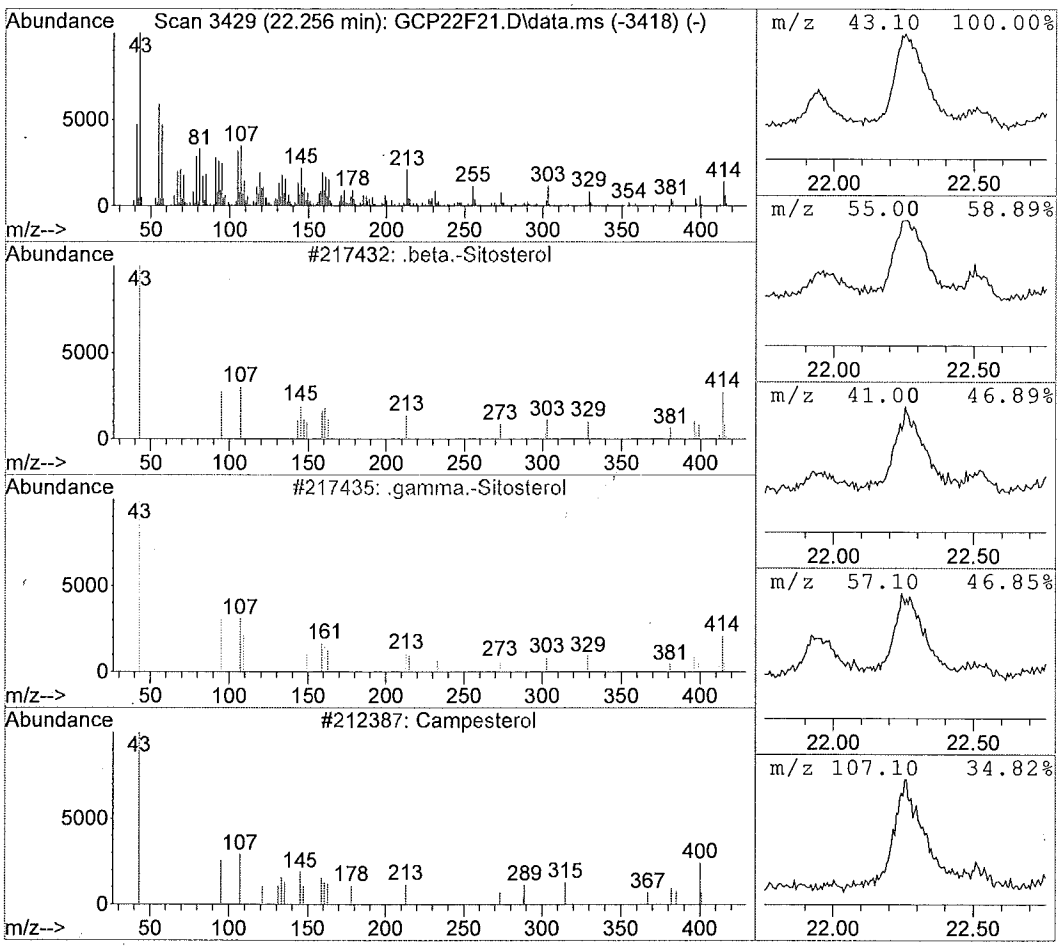
Data File : R:\G\2015\JUL15\10JUL15\GCP22F21.D
Acq On : 07/10/2015 21:59
Sample : 1515542021 F9M40
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 19
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
22.26	29.62 ug/ml	2664548	Perylene-d12	1799454

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	.beta.-Sitosterol	217432	000083-46-5	93.00
2	.gamma.-Sitosterol	217435	000083-47-6	58.00
3	Campesterol	212387	000474-62-4	49.00
4	Isocholesteryl methyl ether	212393	029944-53-4	43.00
5	Ergost-5-en-3-ol, (3.beta.)-	212394	004651-51-8	38.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO:

F9M41

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GCP23F22

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

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

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	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.

F9M41

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GCP23F22

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

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

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	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	17.	J
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	38.	J
129-00-0	Pyrene	39.	J
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	24.	J
218-01-9	Chrysene	29.	J
117-81-7	Bis(2-ethylhexyl)phthalate	240	
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	44.	J
207-08-9	Benzo(k)fluoranthene	200	U
50-32-8	Benzo(a)pyrene	21.	J
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.

F9M41

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GCP23F22

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

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/10/2015

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 1,3-Dioxolane, 2,2-dimethyl-	2.32	1700	J
02		Unknown 1,2-Ethanediol	2.42	370	J
03		Unknown 2-Pentanone, 4-hydroxy-	3.31	1100	JB
04		Unknown Guanidine	3.53	23000	J
05		Unknown TATP	4.08	540	J
06		Unknown 1H-Pyrrole-2,5-dione	4.28	460	J
07		Unknown 1-Hexene-3,5-dione	4.36	280	J
08		Unknown Ethanol, 2-(2-ethoxyethoxy)-	4.69	400	J
09	1120-16-7	Dodecanamide	14.15	440	JN
10	301-02-0	9-Octadecenamide, (Z)-	15.08	2500	JNB
11		Unknown Tetradecanamide	15.86	180	J
12		Unknown 1-Decene, 5-methyl-	16.20	220	J
13	301-02-0	9-Octadecenamide, (Z)-	16.98	470	JN
14		Unknown Phthalic anhydride	18.62	900	J
15		Unknown 1,1,4a-Trimethyl-5,6-dimethylenedecahydr	21.21	500	J
16		Unknown Phthalic anhydride	23.30	790	J
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	1700	J

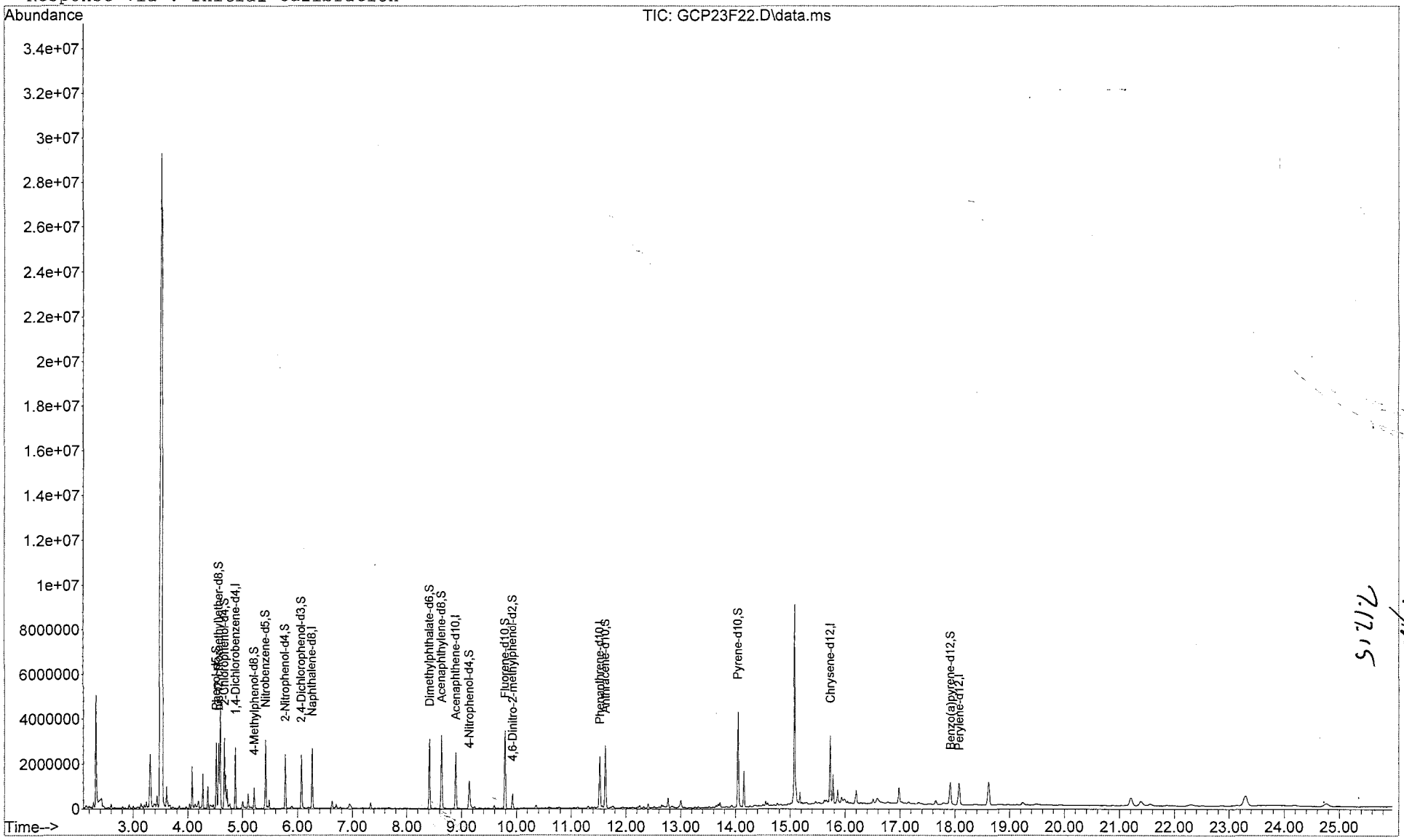
[2] EPA-designated Registry Number.

Quantitation Report

Data File : R:\G\2015\JUL15\10JUL15\GCP23F22.D Vial: 20
Acq On : 07/10/2015 22:32 Operator: TJM
Sample : 1515542022 F9M41 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jul 17 09:41:01 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\10JUL15\GCP23F22.D Vial: 20
Acq On : 07/10/2015 22:32 Operator: TJM
Sample : 1515542022 F9M41 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 17 09:41:01 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	350367	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1313516	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	756640	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1234191	20.00 ug/ml
73) Chrysene-d12	15.73	240	1176421	20.00 ug/ml
81) Perylene-d12	18.07	264	697609	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.52	99	857012	28.108ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	681450	28.680ug/mL
7) 2-Chlorophenol-d4	4.67	132	695364	27.012ug/ml
13) 4-Methylphenol-d8	5.21	113	166259	8.153ug/mL
17) Nitrobenzene-d5	5.42	128	350462	30.372ug/ml
21) 2-Nitrophenol-d4	5.77	143	368805	30.238ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	495478	26.089ug/mL
28) 4-Chloroaniline-d4	6.36	131	1712	0.083ug/mL
42) Dimethylphthalate-d6	8.42	166	1534870	32.350ug/mL
45) Acenaphthylene-d8	8.63	160	1897955	29.435ug/mL
50) 4-Nitrophenol-d4	9.14	143	273404	28.246ug/mL
57) Fluorene-d10	9.79	176	1260325	31.105ug/mL
61) 4,6-Dinitro-2-methylphenol	9.93	200	102287	11.677ug/mL
69) Anthracene-d10	11.62	188	1618505	24.729ug/mL
75) Pyrene-d10	14.04	212	1722199	29.335ug/mL
86) Benzo(a)pyrene-d12	17.92	264	671489	20.088ug/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

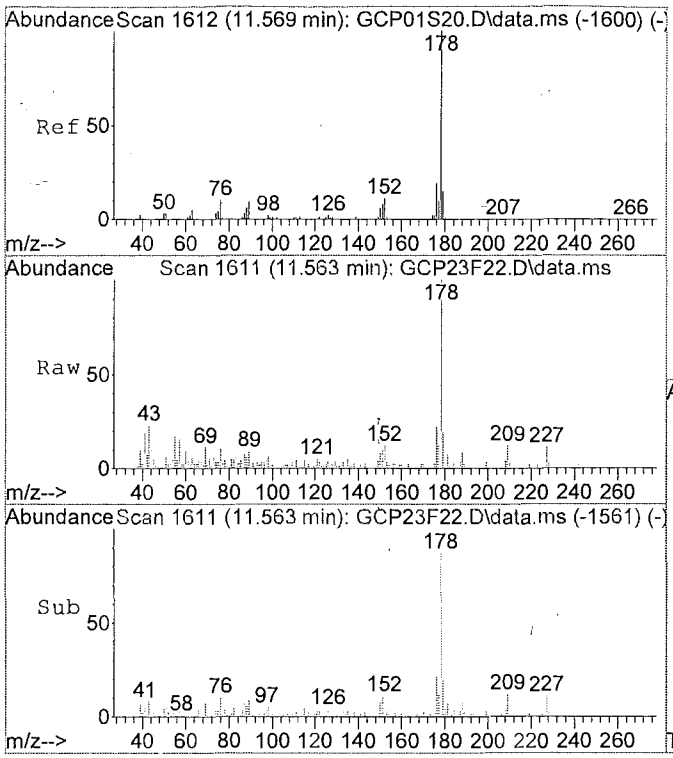
Data File : R:\G\2015\JUL15\10JUL15\GCP23F22.D Vial: 20
Acq On : 07/10/2015 22:32 Operator: TJM
Sample : 1515542022 F9M41 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 17 09:41:01 2015 Results File: GSOM01D6.RES

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	11.56	178	29457	0.447ug/ml	95
68)	Anthracene	0.00	178		Not Detected	
70)	Carbazole	0.00	167		Not Detected	
71)	Di-n-butylphthalate	0.00	149		Not Detected	
72)	Fluoranthene	13.72	202	70249	0.968ug/ml	98
74)	Pyrene	14.07	202	74293	0.992ug/ml	43
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	15.72	228	43643	0.612ug/ml	85
79)	Chrysene	15.76	228	47745	0.741ug/ml	97
80)	Bis-(2-ethylhexyl)phthalat	15.78	149	354481	6.093ug/ml	97
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	17.34	252	49866	1.141ug/ml	96
84)	Benzo(k)fluoranthene	0.00	252		Not Detected	
85)	Benzo(a)pyrene	17.95	252	21967	0.534ug/ml	95
87)	Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88)	Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89)	Benzo(g,h,i)perylene	0.00	276		Not Detected	

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

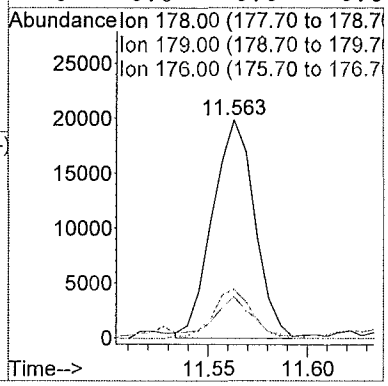
: 09571

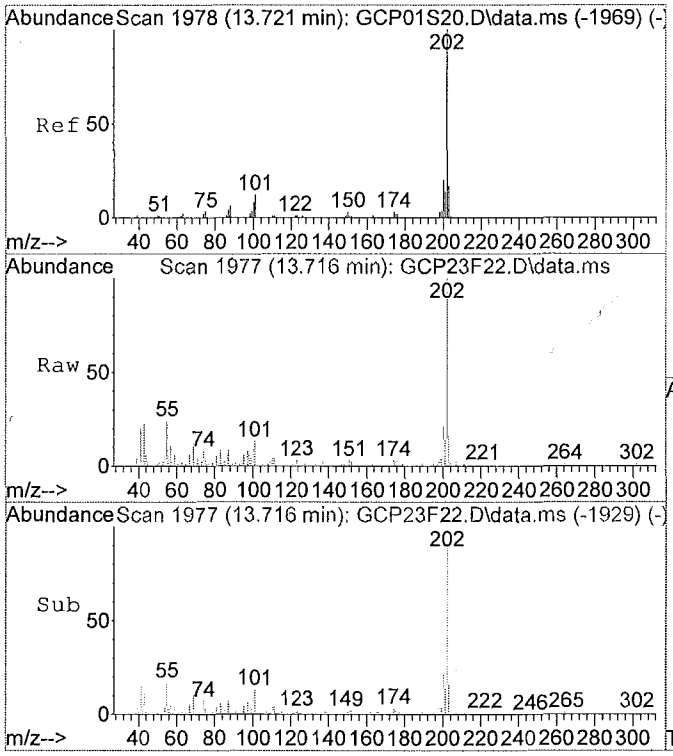


#67
Phenanthrene
Concen: 0.45 ug/ml
RT: 11.56 min Scan# 1611
Delta R.T. -0.01 min
Lab File: GCP23F22.D
Acq: 07/10/2015 22:32

Tgt Ion:178 Resp: 29457

Ion	Ratio	Lower	Upper
178	100		
179	17.7	10.6	19.8
176	20.6	13.2	24.4
0	0.0	0.0	0.0

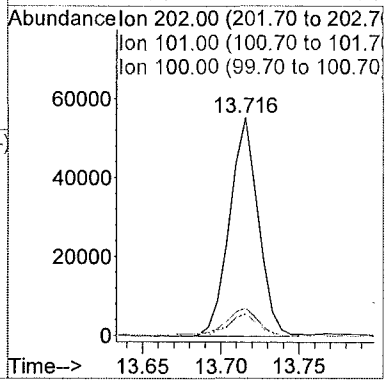


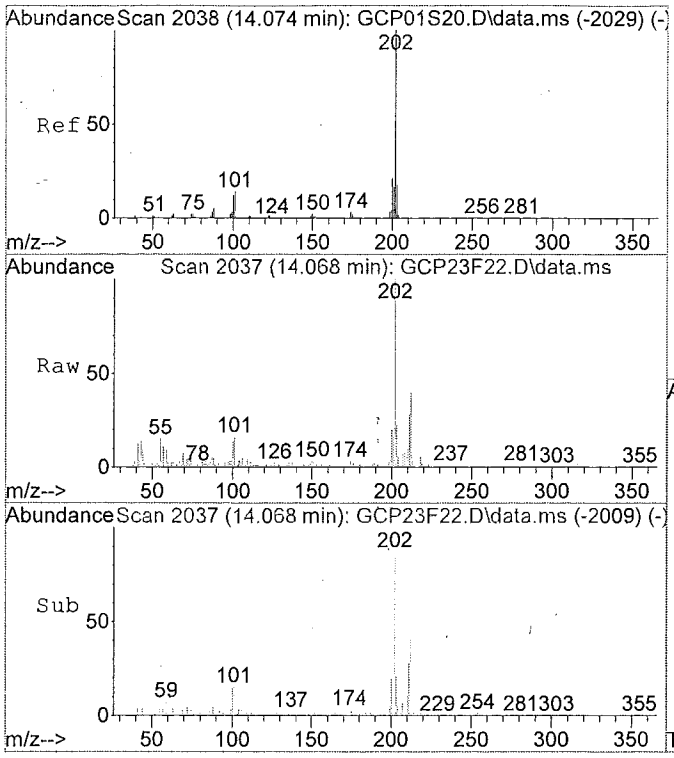


#72
Fluoranthene
Concen: 0.97 ug/ml
RT: 13.72 min Scan# 1977
Delta R.T. -0.01 min
Lab File: GCP23F22.D
Acq: 07/10/2015 22:32

Tgt Ion:202 Resp: 70249

Ion	Ratio	Lower	Upper
202	100		
101	14.8	10.5	19.5
100	11.8	7.4	13.8
0	0.0	0.0	0.0

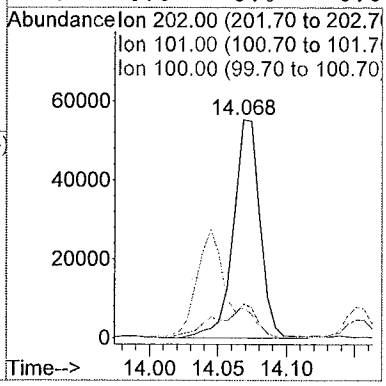


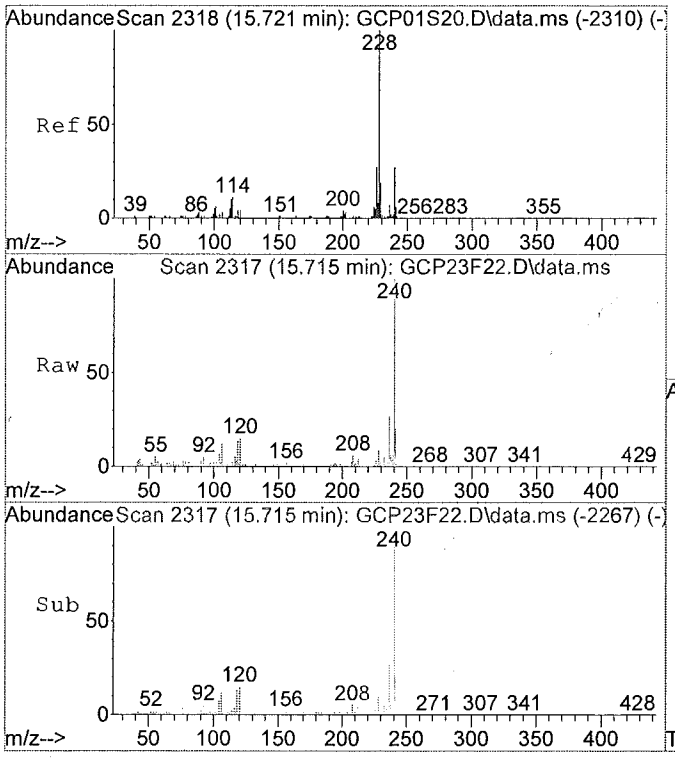


#74
Pyrene
Concen: 0.99 ug/ml
RT: 14.07 min Scan# 2037
Delta R.T. -0.01 min
Lab File: GCP23F22.D
Acq: 07/10/2015 22:32

Tgt Ion:202 Resp: 74293

Ion	Ratio	Lower	Upper
202	100		
101	22.7	12.2	22.7
100	60.6	10.1	18.7#
0	0.0	0.0	0.0

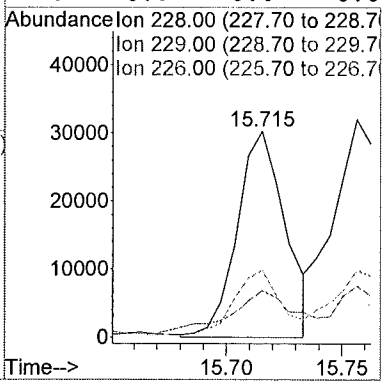


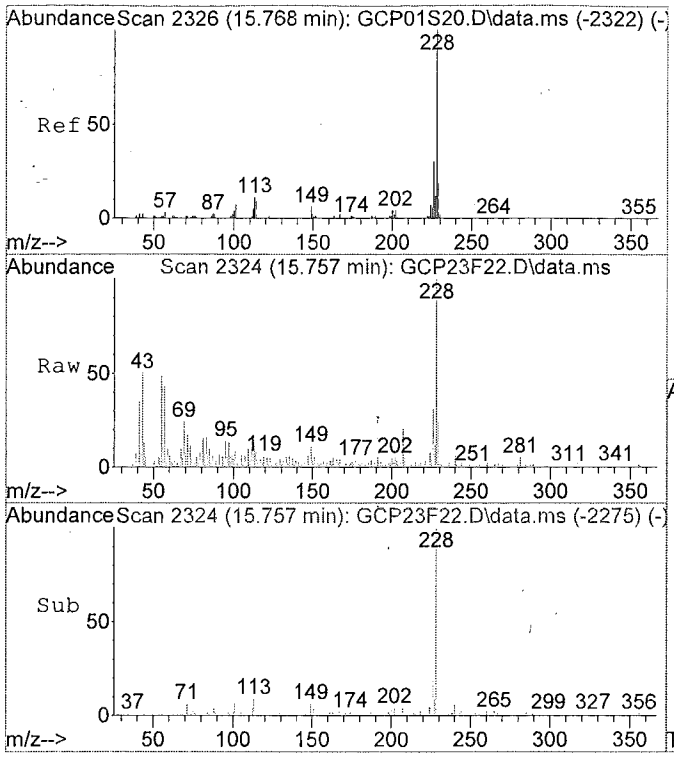


#78
Benzo(a)anthracene
Concen: 0.61 ug/ml
RT: 15.72 min Scan# 2317
Delta R.T. -0.01 min
Lab File: GCP23F22.D
Acq: 07/10/2015 22:32

Tgt Ion:228 Resp: 43643

Ion	Ratio	Lower	Upper
228	100		
229	28.3	13.7	25.5#
226	31.9	18.2	33.8
0	0.0	0.0	0.0

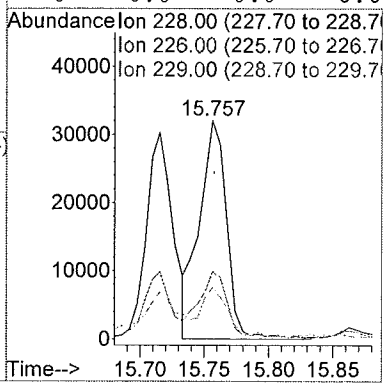


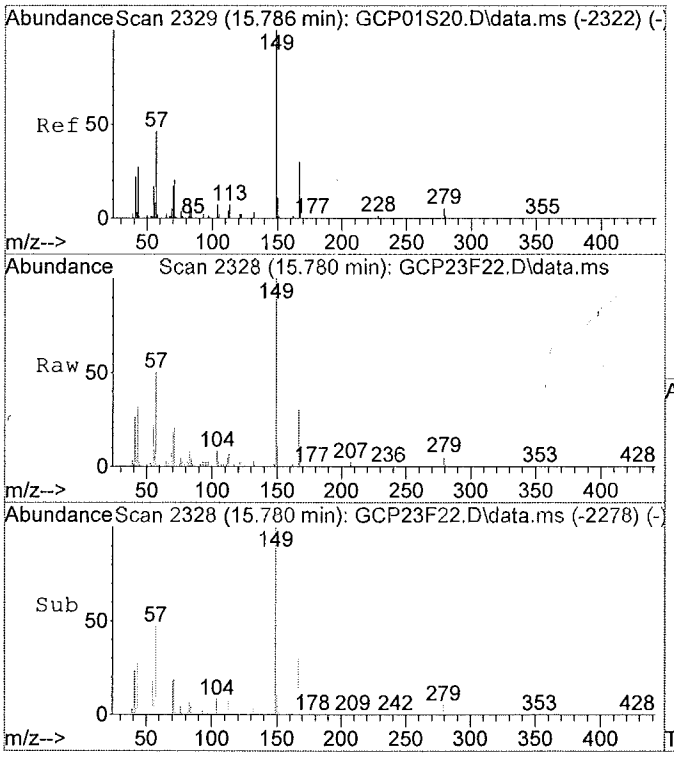


#79
Chrysene
Concen: 0.74 ug/ml
RT: 15.76 min Scan# 2324
Delta R.T. -0.01 min
Lab File: GCP23F22.D
Acq: 07/10/2015 22:32

Tgt Ion:228 Resp: 47745

Ion	Ratio	Lower	Upper
228	100		
226	31.3	20.1	37.3
229	19.1	13.7	25.5
0	0.0	0.0	0.0

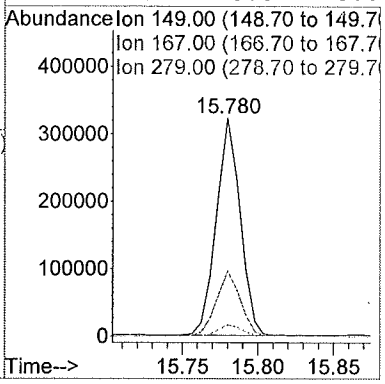


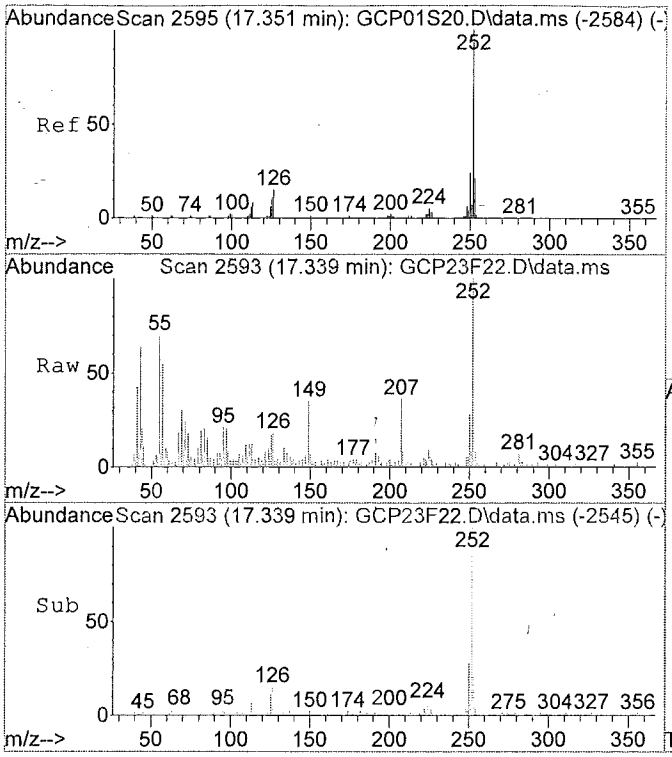


#80
Bis-(2-ethylhexyl)phthalate
Concen: 6.09 ug/ml
RT: 15.78 min Scan# 2328
Delta R.T. -0.01 min
Lab File: GCP23F22.D
Acq: 07/10/2015 22:32

Tgt Ion:149 Resp: 354481

Ion	Ratio	Lower	Upper
149	100		
167	29.8	22.0	40.8
279	5.3	5.0	9.2
0	0.0	0.0	0.0

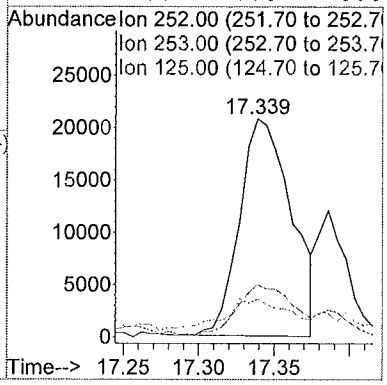


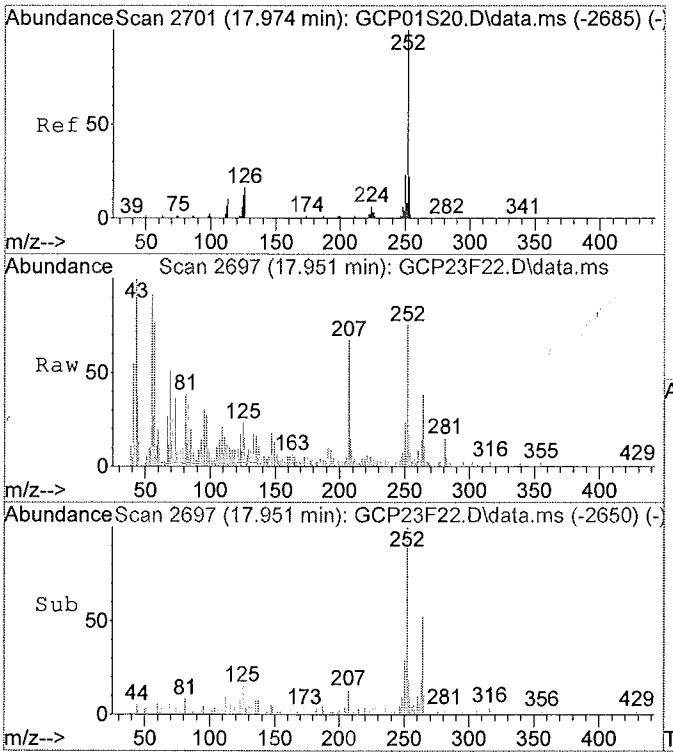


#83
Benzo(b)fluoranthene
Concen: 1.14 ug/ml
RT: 17.34 min Scan# 2593
Delta R.T. -0.01 min
Lab File: GCP23F22.D
Acq: 07/10/2015 22:32

Tgt Ion:252 Resp: 49866

Ion	Ratio	Lower	Upper
252	100		
253	24.3	15.1	28.1
125	14.9	10.6	19.8
0	0.0	0.0	0.0

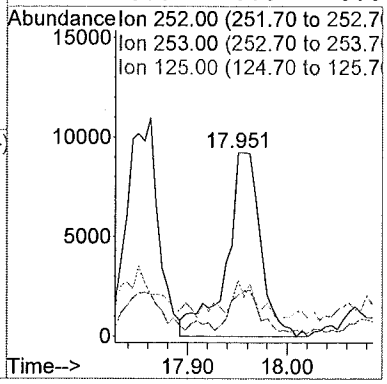




#85
Benzo(a)pyrene
Concen: 0.53 ug/ml
RT: 17.95 min Scan# 2697
Delta R.T. -0.02 min
Lab File: GCP23F22.D
Acq: 07/10/2015 22:32

Tgt Ion:252 Resp: 21967

Ion	Ratio	Lower	Upper
252	100		
253	19.7	15.2	28.2
125	14.0	11.8	21.8
0	0.0	0.0	0.0



Library Search Compound Report

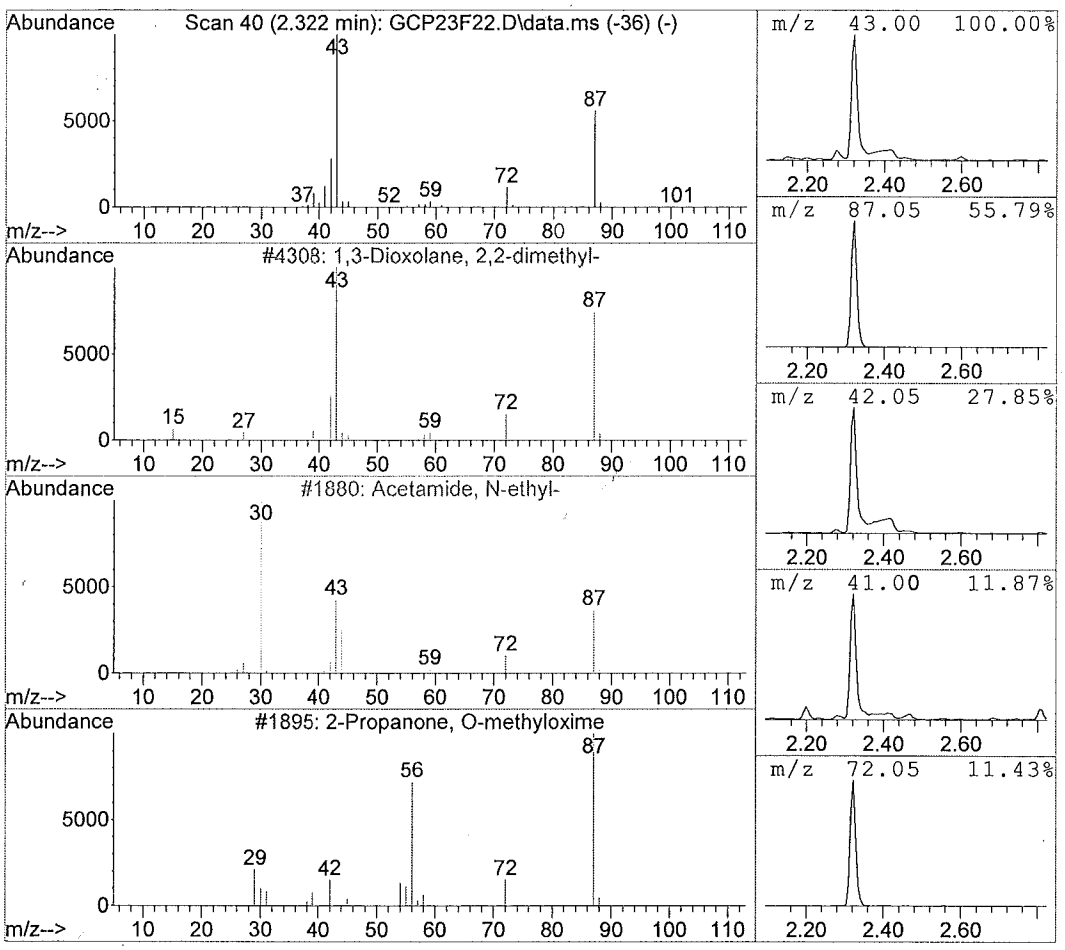
Data File : R:\G\2015\JUL15\10JUL15\GCP23F22.D
Acq On : 07/10/2015 22:32
Sample : 1515542022 F9M41
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 20
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
2.32	42.82 ug/ml	5463741	1,4-Dichlorobenzene-d4	2551922

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,3-Dioxolane, 2,2-dimethyl-	4308	002916-31-6	64.00
2	Acetamide, N-ethyl-	1880	000625-50-3	42.00
3	2-Propanone, O-methyloxime	1895	003376-35-0	37.00
4	Oxazolidin-2-one	1845	000497-25-6	9.00
5	N,N-Dimethylacetamide	1886	000127-19-5	9.00



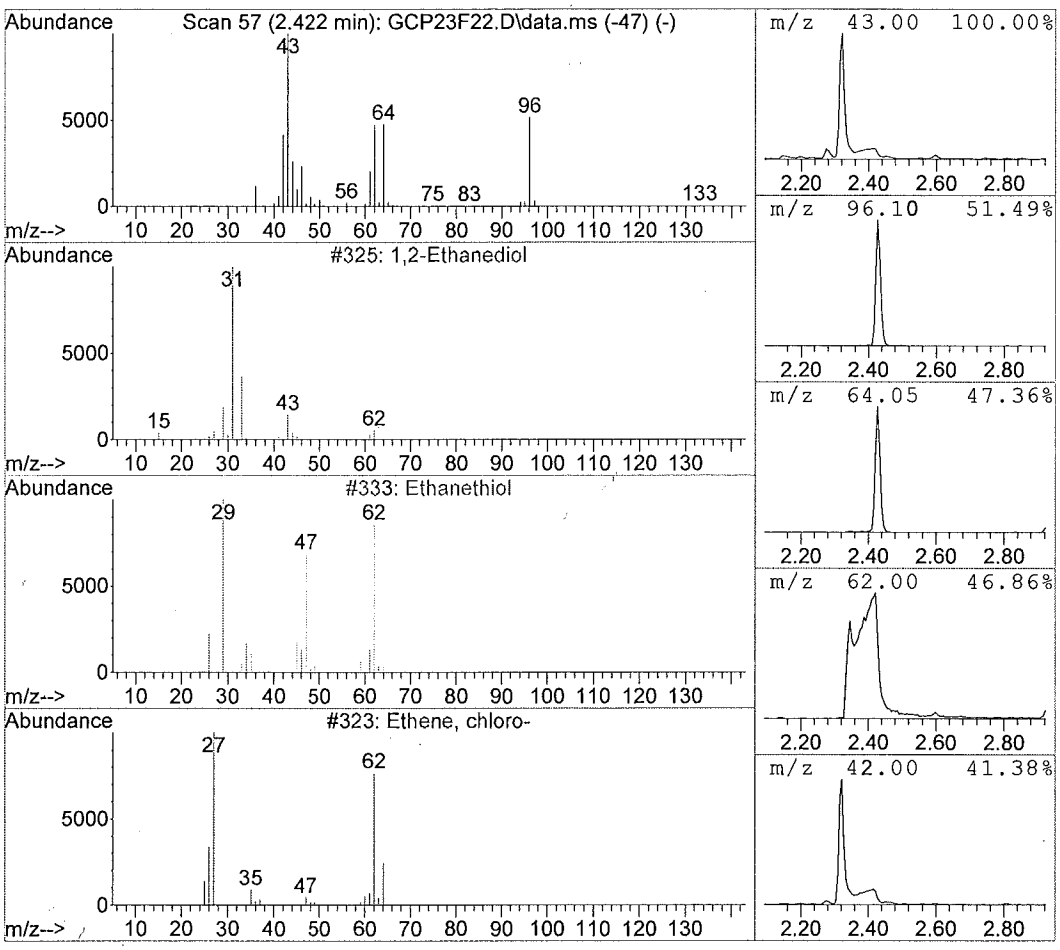
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP23F22.D Vial: 20
Acq On : 07/10/2015 22:32 Operator: TJM
Sample : 1515542022 F9M41 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
2.42	9.52 ug/ml	1215156	1,4-Dichlorobenzene-d4	2551922

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2-Ethanediol	325	000107-21-1	16.00
2	Ethanethiol	333	000075-08-1	9.00
3	Ethene, chloro-	323	000075-01-4	7.00
4	Peroxide, dimethyl	330	000690-02-8	7.00
5	Ethyl Chloride	352	000075-00-3	5.00



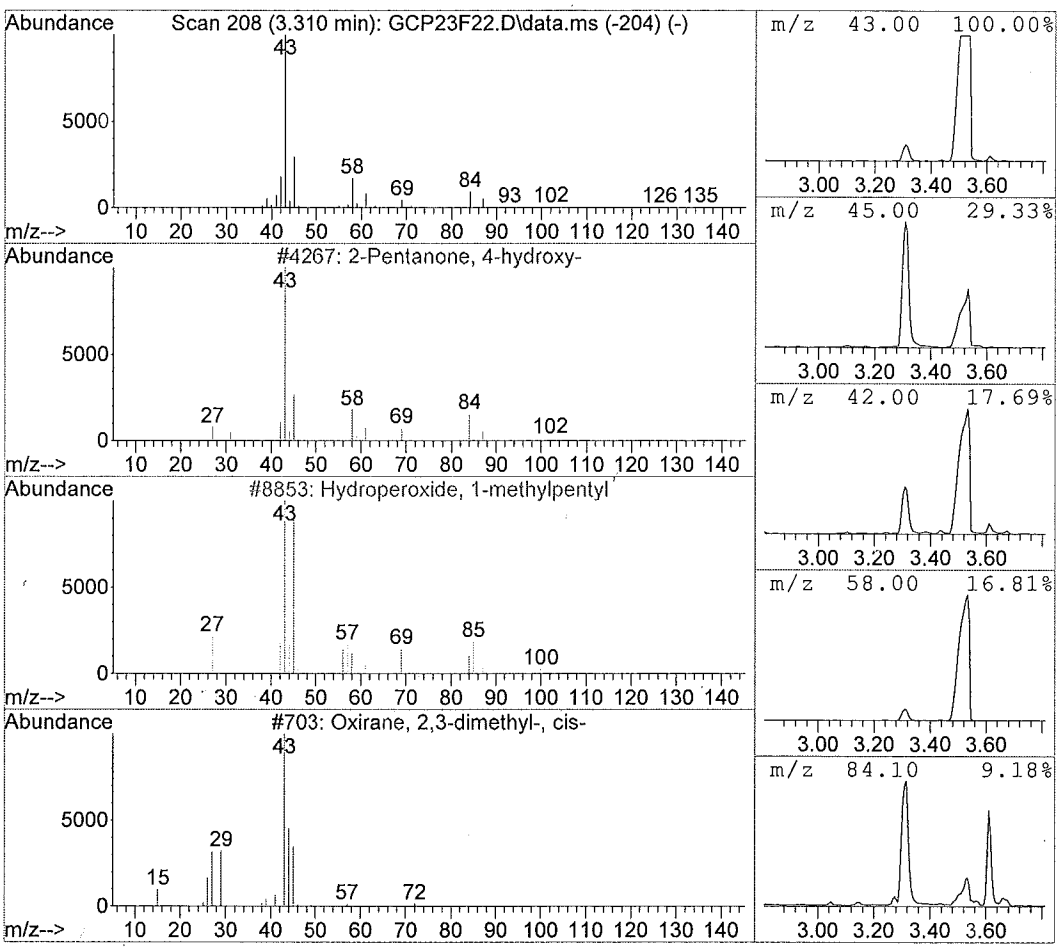
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP23F22.D Vial: 20
Acq On : 07/10/2015 22:32 Operator: TJM
Sample : 1515542022 F9M41 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
3.31	28.92 ug/ml	3690305	1,4-Dichlorobenzene-d4	2551922

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	40.00
2	Hydroperoxide, 1-methylpentyl	8853	024254-55-5	33.00
3	Oxirane, 2,3-dimethyl-, cis-	703	001758-33-4	17.00
4	Acetone	214	000067-64-1	9.00
5	Propane, 1-(1-methylethoxy)-	4493	000627-08-7	9.00



: 00679

Library Search Compound Report

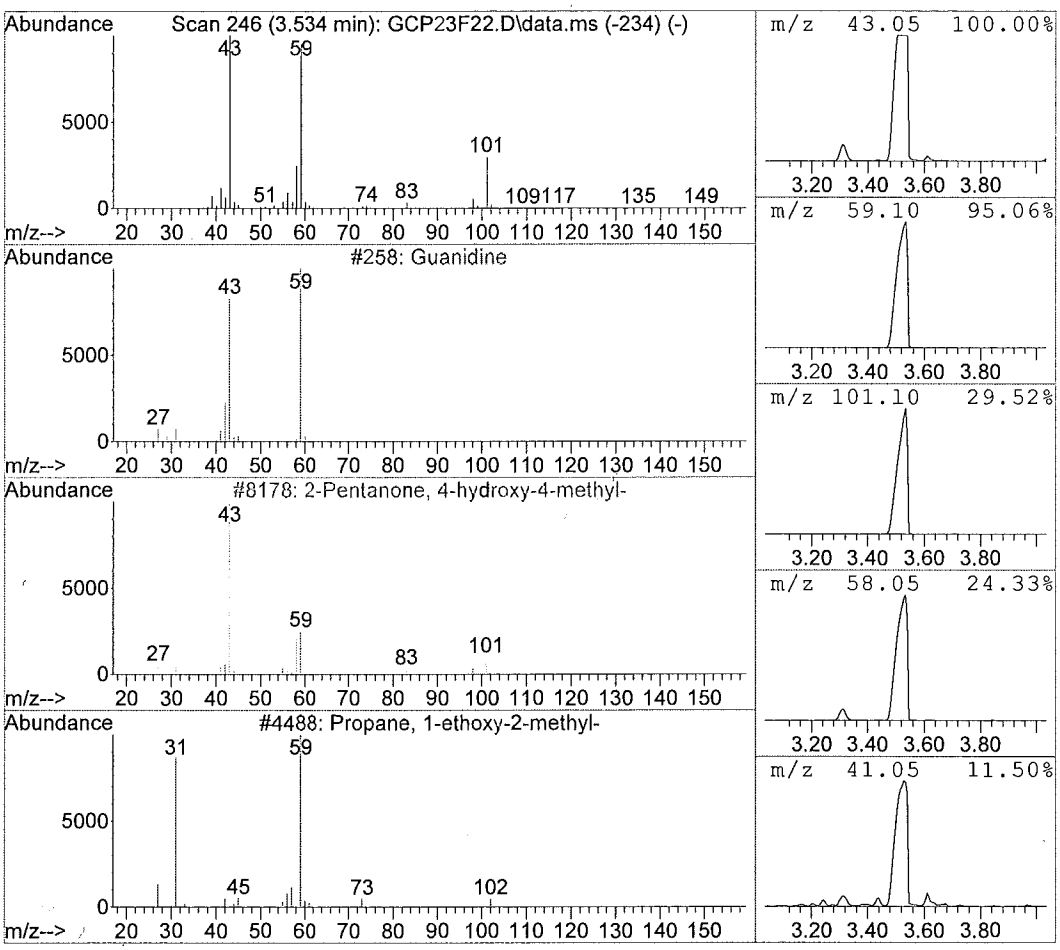
Data File : R:\G\2015\JUL15\10JUL15\GCP23F22.D
Acq On : 07/10/2015 22:32
Sample : 1515542022 F9M41
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 20
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
3.53	603.04 ug/ml	76945493	1,4-Dichlorobenzene-d4	2551922

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Guanidine	258	000113-00-8	52.00
2	2-Pentanone, 4-hydroxy-4-methyl-	8178	000123-42-2	50.00
3	Propane, 1-ethoxy-2-methyl-	4488	000627-02-1	37.00
4	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	27.00
5	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00



Library Search Compound Report

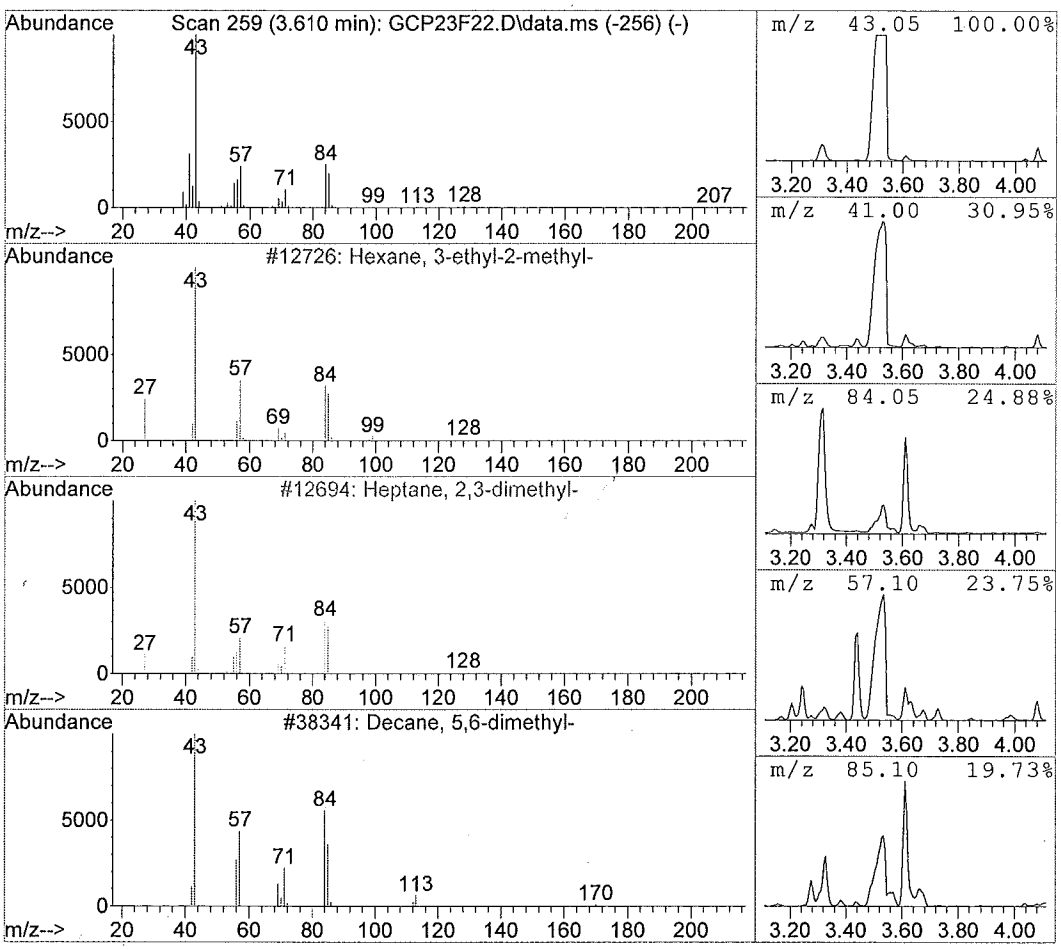
Data File : R:\G\2015\JUL15\10JUL15\GCP23F22.D Vial: 20
Acq On : 07/10/2015 22:32 Operator: TJM
Sample : 1515542022 F9M41 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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
3.61	8.10 ug/ml	1034000	1,4-Dichlorobenzene-d4	2551922

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 3-ethyl-2-methyl-	12726	016789-46-1	87.00
2	Heptane, 2,3-dimethyl-	12694	003074-71-3	86.00
3	Decane, 5,6-dimethyl-	38341	001636-43-7	74.00
4	1-Octene, 4-methyl-	11522	013151-12-7	72.00
5	Heptane, 2,4-dimethyl-	12695	002213-23-2	59.00

BA



Library Search Compound Report

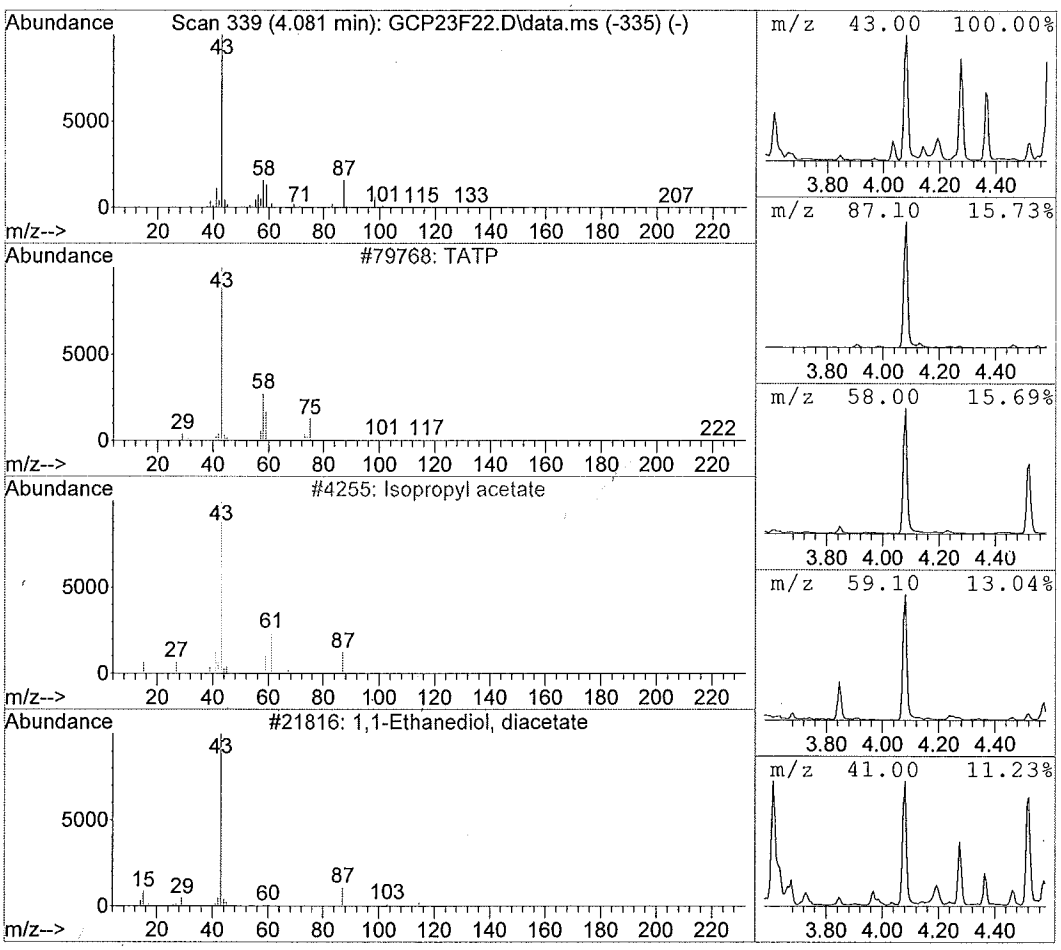
Data File : R:\G\2015\JUL15\10JUL15\GCP23F22.D
Acq On : 07/10/2015 22:32
Sample : 1515542022 F9M41
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 20
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
4.08	13.87 ug/ml	1770199	1,4-Dichlorobenzene-d4	2551922

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	TATP	79768	017088-37-8	50.00
2	Isopropyl acetate	4255	000108-21-4	25.00
3	1,1-Ethanediol, diacetate	21816	000542-10-9	17.00
4	1-Butanamine, 2-methyl-	1912	000096-15-1	9.00
5	S-(-)-2-Methylbutylamine	1929	020626-52-2	9.00



Library Search Compound Report

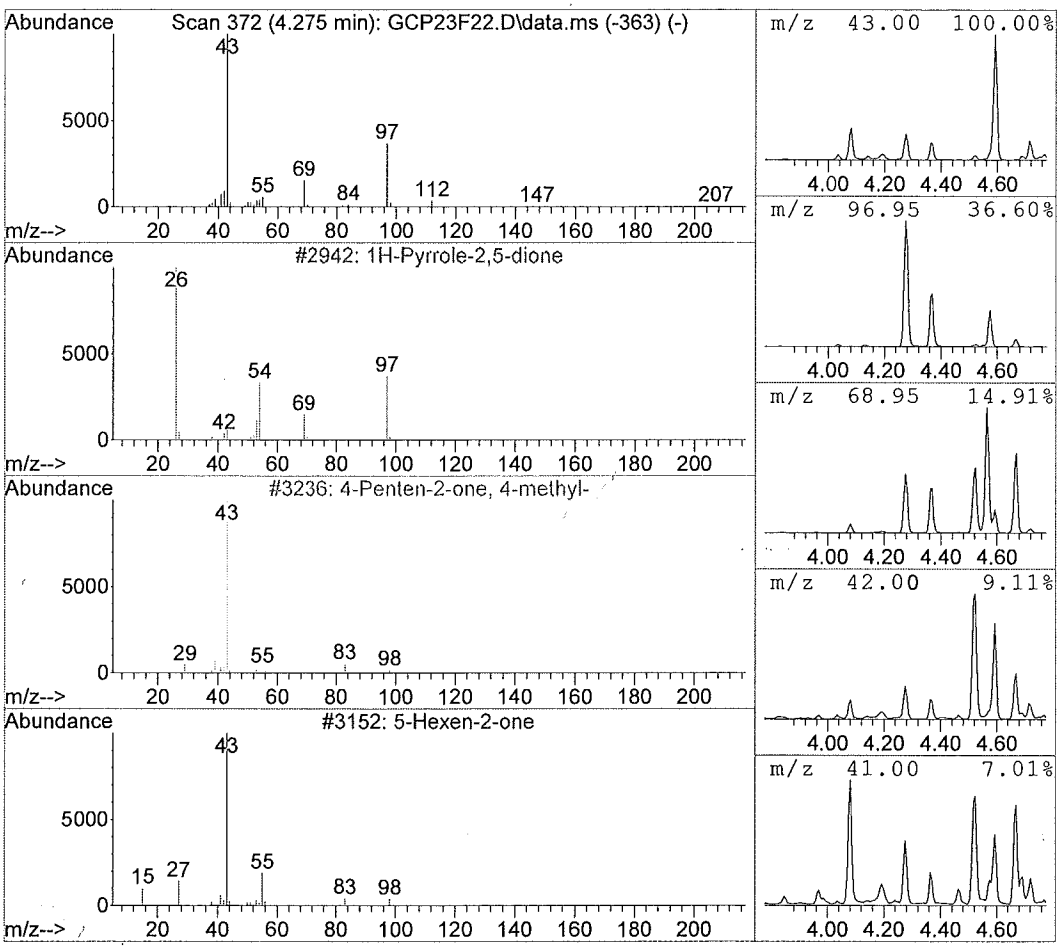
Data File : R:\G\2015\JUL15\10JUL15\GCP23F22.D
Acq On : 07/10/2015 22:32
Sample : 1515542022 F9M41
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 20
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	11.76 ug/ml	1499961	1,4-Dichlorobenzene-d4	2551922

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	37.00
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



Library Search Compound Report

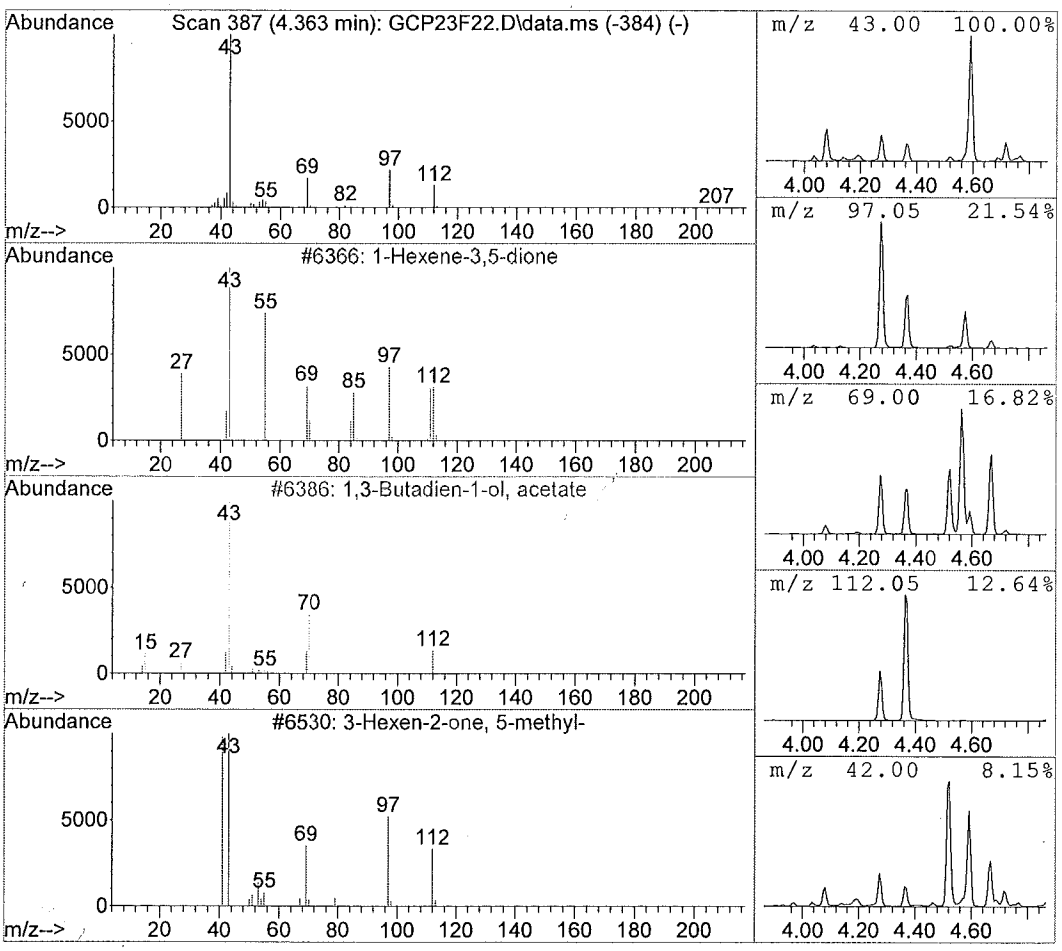
Data File : R:\G\2015\JUL15\10JUL15\GCP23F22.D
Acq On : 07/10/2015 22:32
Sample : 1515542022 F9M41
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 20
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
4.36	7.24 ug/ml	924309	1,4-Dichlorobenzene-d4	2551922

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Hexene-3,5-dione	6366	052204-69-0	42.00
2	1,3-Butadien-1-ol, acetate	6386	001515-76-0	37.00
3	3-Hexen-2-one, 5-methyl-	6530	005166-53-0	36.00
4	1H-Pyrrole-2,5-dione	2942	000541-59-3	9.00
5	3-Hexene-2,5-dione	6367	004436-75-3	9.00



Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP23F22.D
Acq On : 07/10/2015 22:32
Sample : 1515542022 F9M41
Misc : . SOIL SOM
MS Integration Params: rteint.p

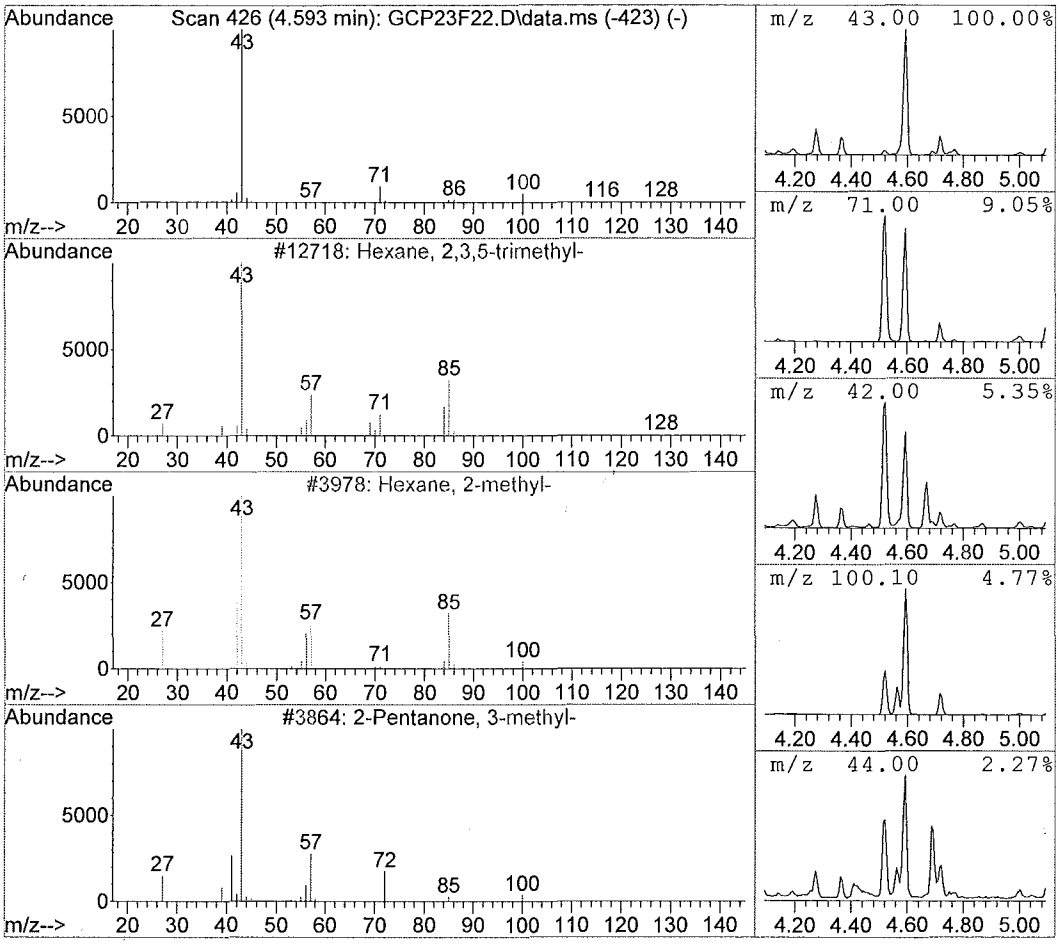
Vial: 20
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

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	34.37 ug/ml	4386015	1,4-Dichlorobenzene-d4	2551922

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	7.00
2	Hexane, 2-methyl-	3978	000591-76-4	5.00
3	2-Pentanone, 3-methyl-	3864	000565-61-7	5.00
4	Hexane, 2,3,4-trimethyl-	12706	000921-47-1	5.00
5	Heptane	3971	000142-82-5	5.00

B4



Library Search Compound Report

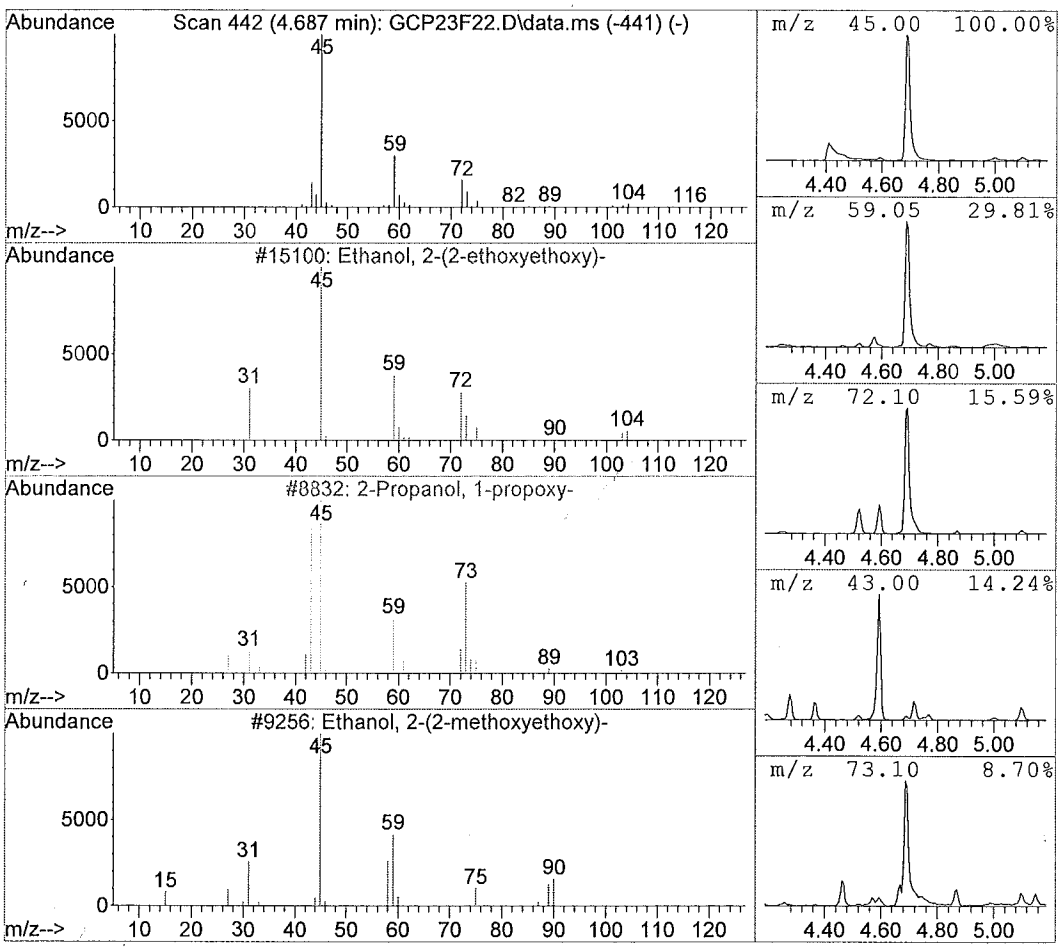
Data File : R:\G\2015\JUL15\10JUL15\GCP23F22.D
Acq On : 07/10/2015 22:32
Sample : 1515542022 F9M41
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 20
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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	10.22 ug/ml	1303992	1,4-Dichlorobenzene-d4	2551922

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethanol, 2-(2-ethoxyethoxy)-	15100	000111-90-0	40.00
2	2-Propanol, 1-propoxy-	8832	001569-01-3	40.00
3	Ethanol, 2-(2-methoxyethoxy)-	9256	000111-77-3	39.00
4	Methoxyacetic acid, butyl ester	21952	017640-22-1	36.00
5	2-Pentanol	2094	006032-29-7	33.00



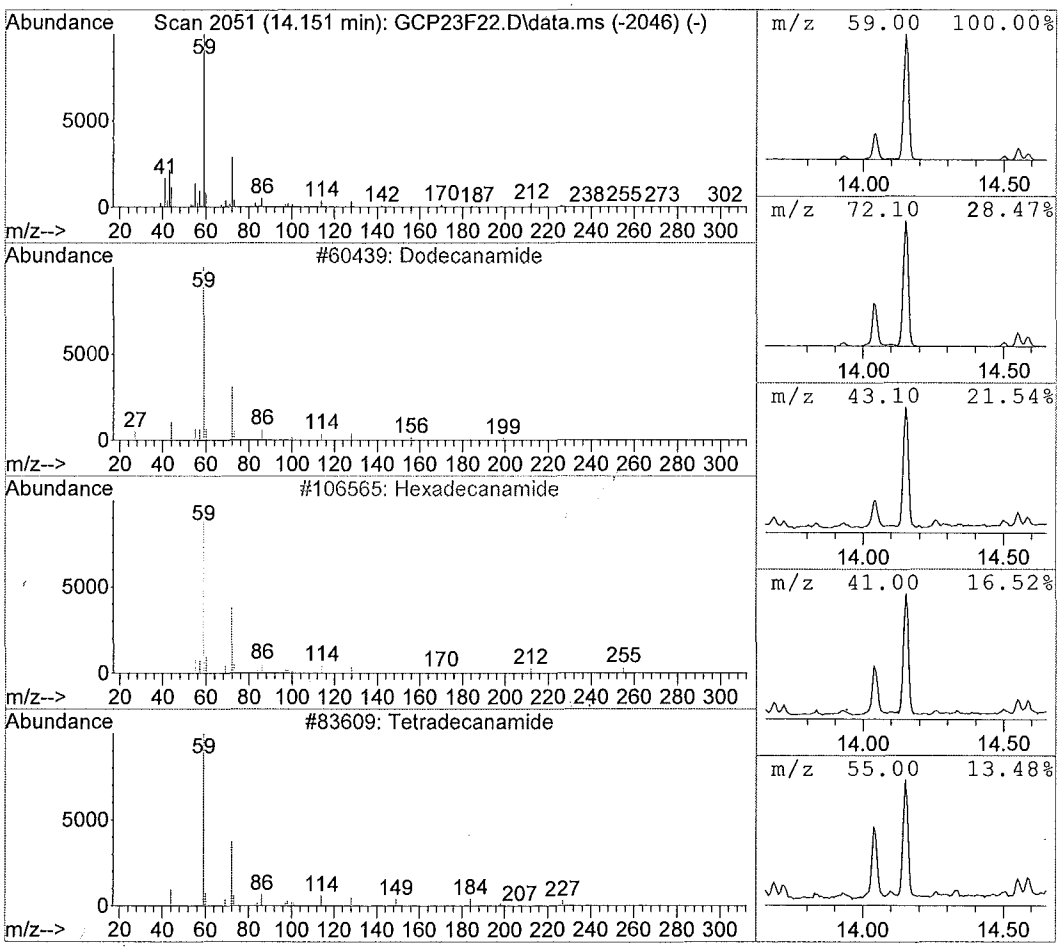
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP23F22.D Vial: 20
Acq On : 07/10/2015 22:32 Operator: TJM
Sample : 1515542022 F9M41 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	11.20 ug/ml	1901696	Chrysene-d12	3396001

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	Tetradecanamide	83609	000638-58-4	78.00
4	Nonanamide	29478	001120-07-6	78.00
5	Undecanamide, 11-bromo-	112862	005875-26-3	78.00



Library Search Compound Report

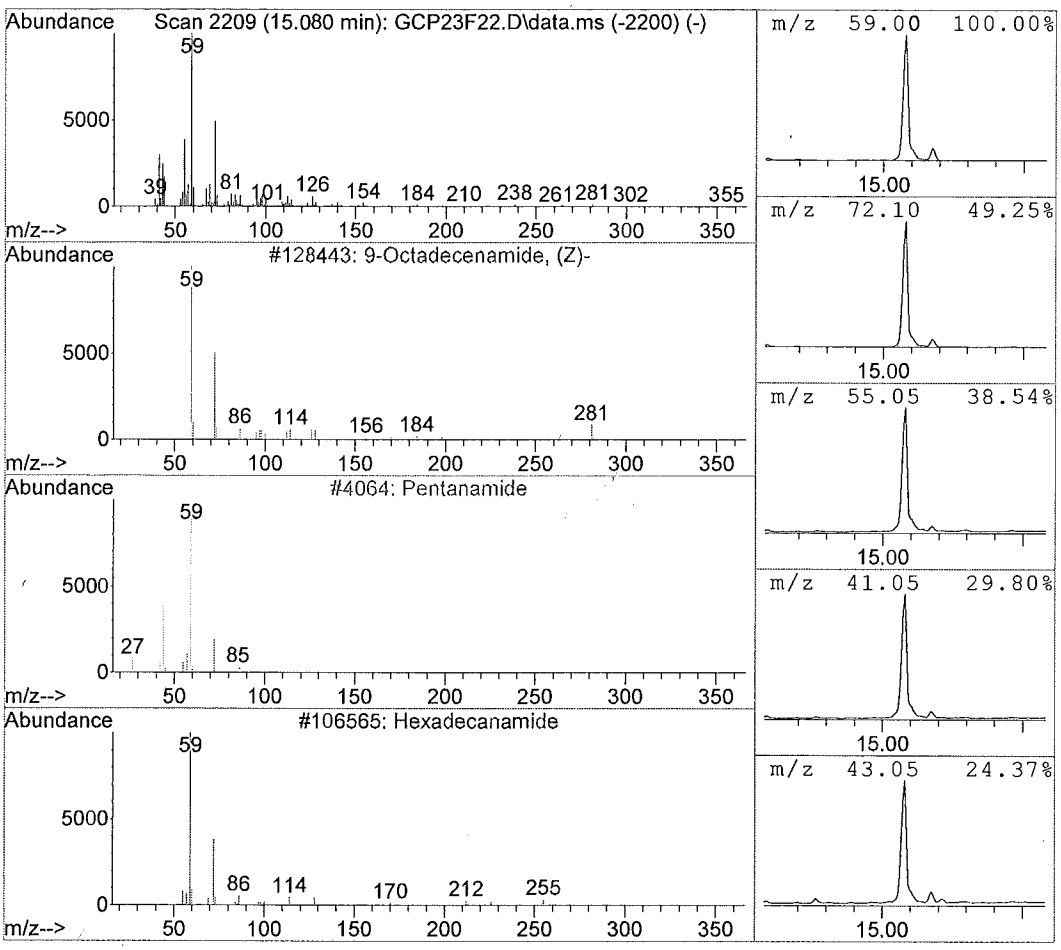
Data File : R:\G\2015\JUL15\10JUL15\GCP23F22.D
Acq On : 07/10/2015 22:32
Sample : 1515542022 F9M41
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 20
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
15.08	63.04 ug/ml	10704833	Chrysene-d12	3396001

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	94.00
2	Pentanamide	4064	000626-97-1	59.00
3	Hexadecanamide	106565	000629-54-9	56.00
4	Nonanamide	29478	001120-07-6	50.00
5	Octanamide	20317	000629-01-6	50.00



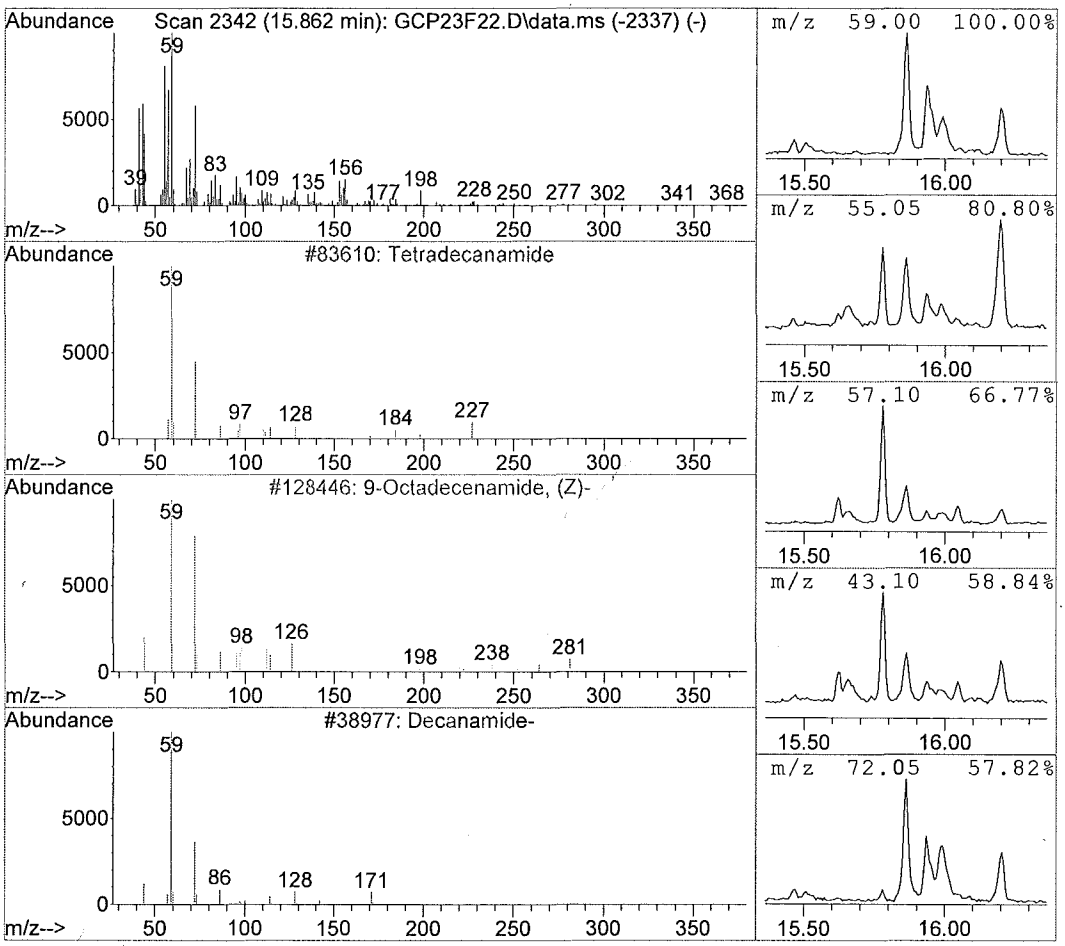
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP23F22.D Vial: 20
Acq On : 07/10/2015 22:32 Operator: TJM
Sample : 1515542022 F9M41 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	4.65 ug/ml	788869	Chrysene-d12	3396001

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83610	000638-58-4	55.00
2	9-Octadecenamide, (Z)-	128446	000301-02-0	53.00
3	Decanamide-	38977	002319-29-1	47.00
4	7-Nonenamide	28131	090949-53-4	46.00
5	Butanamide, 3-methyl-	4078	000541-46-8	43.00



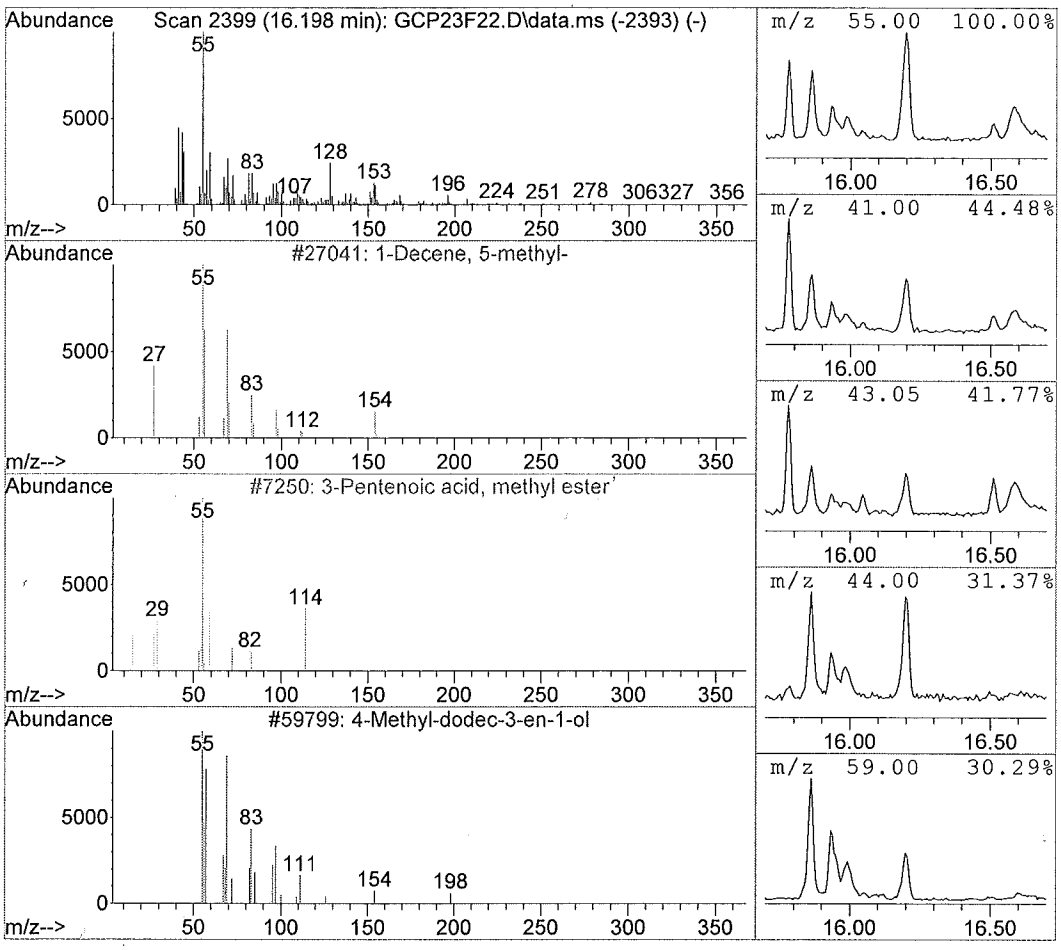
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP23F22.D Vial: 20
Acq On : 07/10/2015 22:32 Operator: TJM
Sample : 1515542022 F9M41 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	5.77 ug/ml	979045	Chrysene-d12	3396001

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Decene, 5-methyl-	27041	054244-79-0	35.00
2	3-Pentenoic acid, methyl ester	7250	000818-58-6	27.00
3	4-Methyl-dodec-3-en-1-ol	59799	1000192-41-0	27.00
4	5-Undecene, (Z)-	27029	000764-96-5	14.00
5	Cyclohexanemethanol, 4-methyl-, tra	12641	003937-49-3	14.00



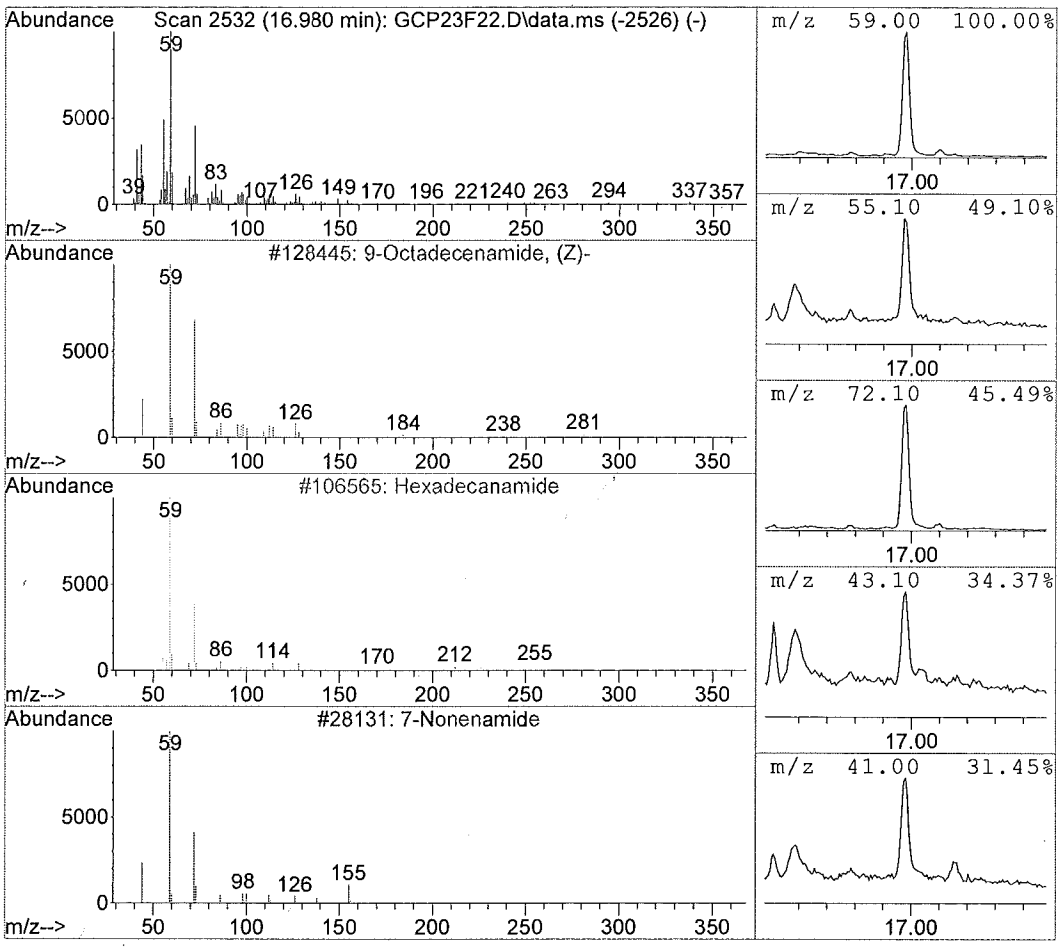
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP23F22.D Vial: 20
Acq On : 07/10/2015 22:32 Operator: TJM
Sample : 1515542022 F9M41 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	11.99 ug/ml	1213535	Perylene-d12	2024706

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	91.00
2	Hexadecanamide	106565	000629-54-9	72.00
3	7-Nonenamide	28131	090949-53-4	64.00
4	Dodecanamide	60440	001120-16-7	56.00
5	Octanamide	20317	000629-01-6	53.00

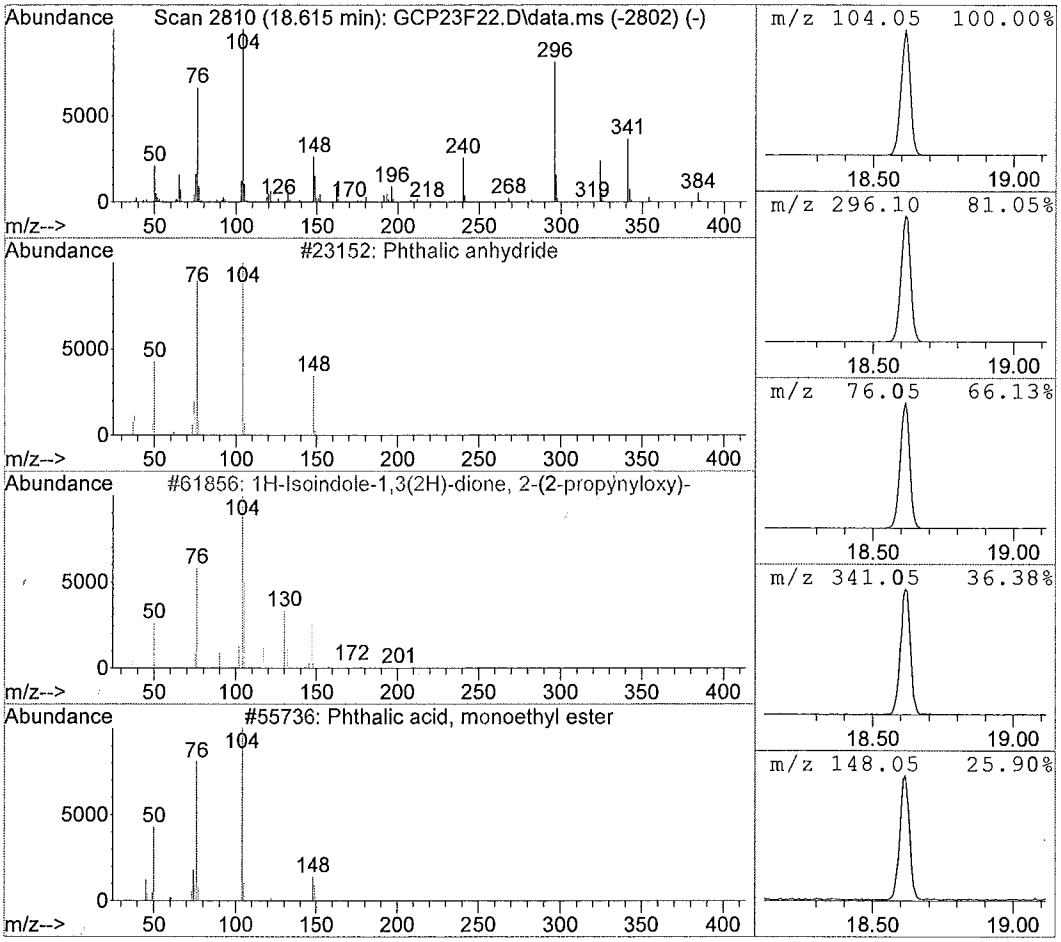


Data File : R:\G\2015\JUL15\10JUL15\GCP23F22.D Vial: 20
Acq On : 07/10/2015 22:32 Operator: TJM
Sample : 1515542022 F9M41 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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	23.20 ug/ml	2348914	Perylene-d12	2024706

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	23152	000085-44-9	35.00
2	1H-Isoindole-1,3(2H)-dione, 2-(2-pr	61856	004616-63-1	27.00
3	Phthalic acid, monoethyl ester	55736	002306-33-4	27.00
4	Benzo[c]thiophen-1(3H)-one, 3-(3-ox	140932	023667-32-5	22.00
5	Xanthine, 1,3-dimethyl-8-[2-[2-meth	140880	1000129-52-7	14.00



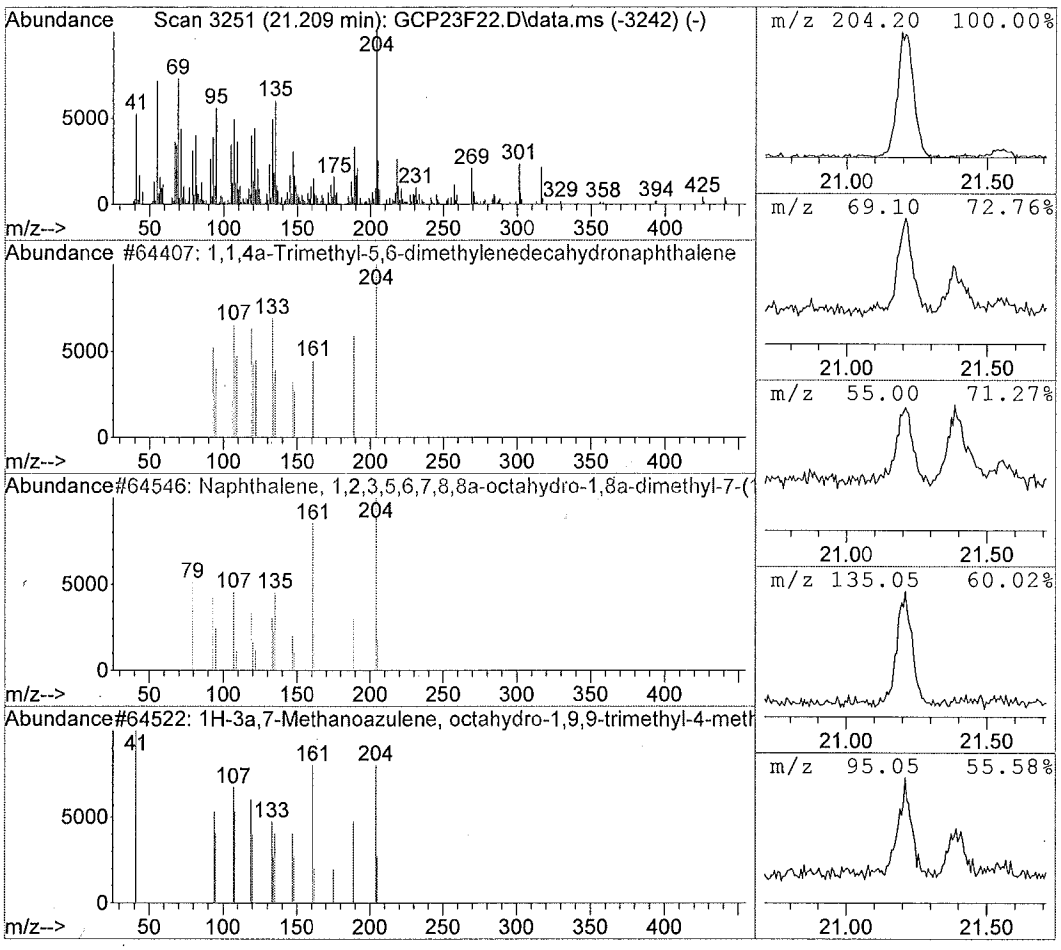
Library Search Compound Report

Data File : R:\G\2015\JUL15\10JUL15\GCP23F22.D Vial: 20
Acq On : 07/10/2015 22:32 Operator: TJM
Sample : 1515542022 F9M41 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
21.21	12.72 ug/ml	1288009	Perylene-d12	2024706

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,1,4a-Trimethyl-5,6-dimethylenedec	64407	1000193-60-8	70.00
2	Naphthalene, 1,2,3,5,6,7,8,8a-octah	64546	004630-07-3	64.00
3	1H-3a,7-Methanoazulene, octahydro-1	64522	000508-55-4	58.00
4	1,2,4,8-Tetramethylbicyclo[6.3.0]un	64400	137235-51-9	49.00
5	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	64569	000489-40-7	46.00



Library Search Compound Report

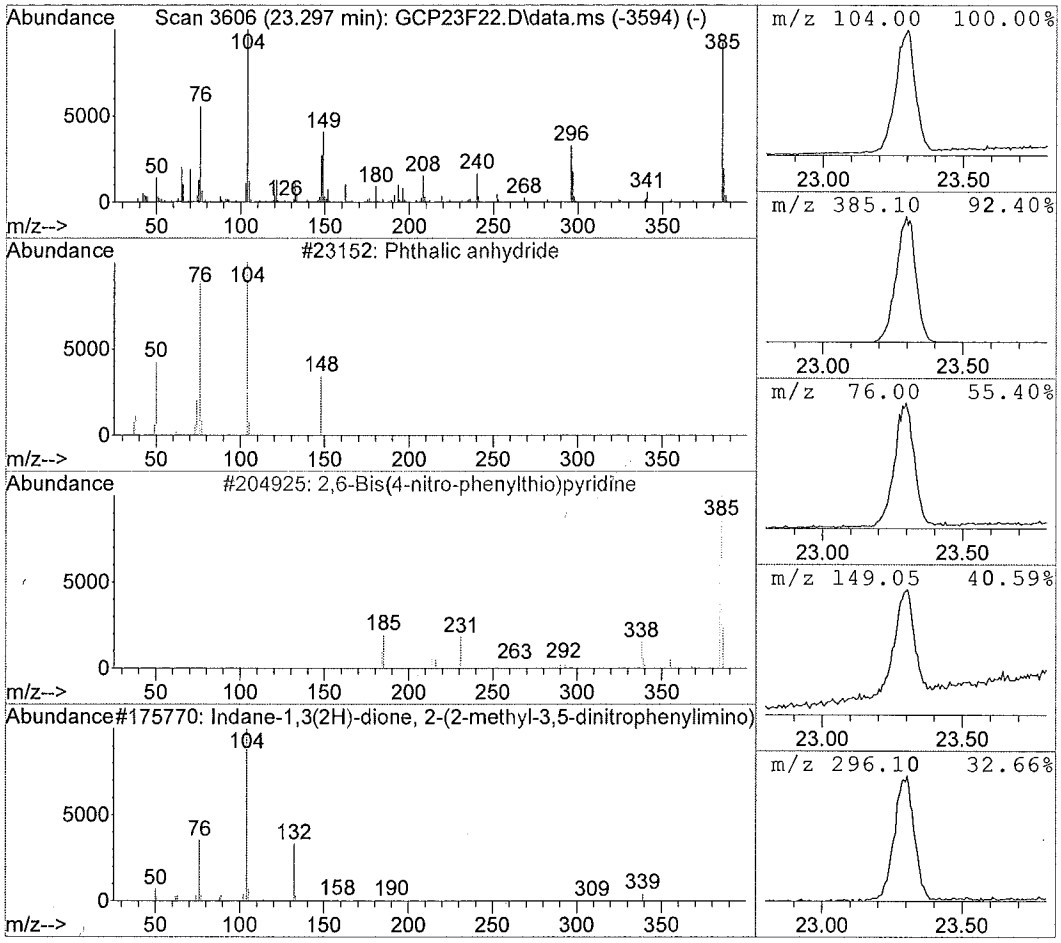
Data File : R:\G\2015\JUL15\10JUL15\GCP23F22.D
Acq On : 07/10/2015 22:32
Sample : 1515542022 F9M41
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 20
Operator: TJM
Inst : 5975-G
Injection volume : 1uL
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
23.30	20.33 ug/ml	2057649	Perylene-d12	2024706

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	23152	000085-44-9	27.00
2	2,6-Bis(4-nitro-phenylthio)pyridine	204925	078649-02-2	25.00
3	Indane-1,3(2H)-dione, 2-(2-methyl-3	175770	1000263-60-8	14.00
4	Xanthine, 1,3-diethyl-8-[4-[[[ethyl	204982	104576-48-9	14.00
5	Picolinyl 8-(5-hexyl-2-furyl)-octan	205200	1000335-93-0	14.00



00693

6E - FORM VI SV-1

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

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

Instrument ID: 5975-G Calibration Date(s): 05/27/2015 05/27/2015

Calibration Time(s): 15:49 19:02

LAB FILE ID: RRF 5.0 = GAX02S05 RRF 10 = GAX03S10

RRF 20 = GAX01S20 RRF 40 = GAX06S40 RRF 80 = GAX07S80

COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	%RSD
Benzaldehyde	0.927	0.886	0.774	0.886	0.712	0.837	10.8
Phenol	1.355	1.454	1.461	1.395	1.389	1.411	3.2
Bis(2-chloroethyl)ether	1.163	1.129	1.199	1.172	1.220	1.177	3.0
2-Chlorophenol	1.244	1.341	1.351	1.293	1.276	1.301	3.4
2-Methylphenol	1.165	1.104	1.084	1.075	1.032	1.092	4.5
2,2'-Oxybis(1-chloropropane)	1.425	1.351	1.350	1.298	1.222	1.329	5.6
Acetophenone	1.659	1.588	1.569	1.534	1.481	1.566	4.2
4-Methylphenol	1.211	1.142	1.134	1.140	1.101	1.146	3.5
N-Nitroso-di-n-propylamine	0.727	0.695	0.686	0.676	0.653	0.687	3.9
Hexachloroethane	0.640	0.600	0.579	0.583	0.571	0.595	4.6
Nitrobenzene	0.333	0.313	0.300	0.304	0.294	0.309	4.9
Isophorone	0.568	0.540	0.522	0.530	0.516	0.535	3.8
2-Nitrophenol	0.191	0.203	0.203	0.196	0.195	0.197	2.8
2,4-Dimethylphenol	0.293	0.314	0.317	0.304	0.307	0.307	3.0
Bis(2-chloroethoxy)methane	0.365	0.359	0.354	0.354	0.340	0.354	2.6
2,4-Dichlorophenol	0.256	0.277	0.284	0.274	0.270	0.272	3.9
Naphthalene	1.087	1.037	0.984	0.983	0.956	1.009	5.2
4-Chloroaniline	0.405	0.397	0.352	0.279	0.235	0.334	22.2
Hexachlorobutadiene	0.185	0.176	0.169	0.172	0.163	0.173	4.8
Caprolactam	0.099	0.096	0.096	0.099	0.098	0.098	1.5
4-Chloro-3-methylphenol	0.247	0.269	0.274	0.270	0.273	0.266	4.1
2-Methylnaphthalene	0.683	0.670	0.657	0.591	0.620	0.645	5.9
Hexachlorocyclopentadiene	0.340	0.358	0.357	0.363	0.342	0.352	3.0
2,4,6-Trichlorophenol	0.330	0.354	0.368	0.354	0.350	0.351	3.9
2,4,5-Trichlorophenol	0.380	0.387	0.378	0.380	0.362	0.377	2.5
1,1'-Biphenyl	1.499	1.442	1.406	1.348	1.272	1.393	6.3
2-Chloronaphthalene	1.174	1.117	1.064	1.054	0.994	1.081	6.3
2-Nitroaniline		0.294	0.293	0.264	0.283	0.284	4.9
Dimethylphthalate	1.287	1.268	1.250	1.246	1.186	1.247	3.0
2,6-Dinitrotoluene	0.296	0.289	0.285	0.289	0.280	0.288	2.1
Acenaphthylene	1.957	1.901	1.799	1.783	1.701	1.828	5.5
3-Nitroaniline		0.314	0.218	0.157	0.135	0.206	39.0
Acenaphthene	1.211	1.169	1.102	1.093	1.053	1.126	5.6
2,4-Dinitrophenol		0.144	0.176	0.188	0.198	0.176	13.5
4-Nitrophenol		0.148	0.156	0.155	0.154	0.153	2.1
Dibenzofuran	1.575	1.563	1.519	1.353	1.381	1.478	7.0

6F - FORM VI SV-2
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

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

Instrument ID: 5975-G Calibration Date(s): 05/27/2015 05/27/2015

Calibration Time(s): 15:49 19:02

LAB FILE ID: RRF 5.0 = GAX02S05 RRF 10 = GAX03S10
RRF 20 = GAX01S20 RRF 40 = GAX06S40 RRF 80 = GAX07S80

COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	%RSD
2,4-Dinitrotoluene	0.406	0.393	0.386	0.391	0.367	0.388	3.7
Diethylphthalate	1.316	1.297	1.307	1.305	1.224	1.290	2.9
Fluorene	1.328	1.281	1.214	1.187	1.121	1.226	6.6
4-Chlorophenyl-phenylether	0.616	0.600	0.588	0.576	0.529	0.582	5.7
4-Nitroaniline		0.294	0.252	0.226	0.180	0.238	20.1
4,6-Dinitro-2-methylphenol		0.138	0.153	0.150	0.154	0.149	4.9
N-Nitrosodiphenylamine[1]	0.554	0.545	0.533	0.507	0.476	0.523	6.1
1,2,4,5-Tetrachlorobenzene	0.528	0.517	0.516	0.451	0.462	0.495	7.1
4-Bromophenyl-phenylether	0.212	0.204	0.206	0.201	0.194	0.203	3.2
Hexachlorobenzene	0.243	0.232	0.222	0.214	0.208	0.224	6.2
Atrazine	0.210	0.208	0.197	0.180	0.161	0.191	11.0
Pentachlorophenol		0.135	0.145	0.140	0.146	0.141	3.8
Phenanthrene	1.186	1.137	1.083	1.048	1.014	1.094	6.3
Anthracene	1.215	1.170	1.107	1.060	1.028	1.116	6.9
Carbazole	0.999	0.894	0.603	0.504	0.375	0.675	39.0
Di-n-butylphthalate	1.407	1.393	1.414	1.375	1.310	1.380	3.0
Fluoranthene	1.217	1.187	1.126	1.076	1.033	1.128	6.8
Pyrene	1.346	1.285	1.214	1.184	1.164	1.238	6.1
Butylbenzylphthalate	0.643	0.652	0.667	0.665	0.652	0.656	1.6
3,3'-Dichlorobenzidine	0.371	0.345	0.315	0.289	0.296	0.323	10.6
Benzo(a)anthracene	1.200	1.164	1.126	1.093	1.100	1.137	4.0
Chrysene	1.097	1.078	1.036	0.993	0.956	1.032	5.7
Bis(2-ethylhexyl)phthalate	0.956	0.971	0.997	0.978	0.924	0.965	2.8
Di-n-octylphthalate	1.664	1.696	1.750	1.715	1.615	1.688	3.0
Benzo(b)fluoranthene	1.202	1.188	1.132	1.152	1.139	1.163	2.7
Benzo(k)fluoranthene	1.186	1.198	1.135	1.067	1.050	1.127	6.0
Benzo(a)pyrene	1.185	1.162	1.110	1.080	1.070	1.121	4.5
Indeno(1,2,3-cd)pyrene	1.066	1.101	1.071	1.102	1.156	1.099	3.3
Dibenzo(a,h)anthracene	1.139	1.137	1.124	1.118	1.121	1.128	0.9
Benzo(g,h,i)perylene	1.128	1.124	1.101	1.107	1.107	1.113	1.1
2,3,4,6-Tetrachlorophenol	0.257	0.282	0.301	0.293	0.288	0.284	5.9

[1] Cannot be separated from Diphenylamine

6G - FORM VI SV-3

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

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

Instrument ID: 5975-G Calibration Date(s): 05/27/2015 05/27/2015

Calibration Time(s): 15:49 19:02

LAB FILE ID: RRF 5.0 = GAX02S05 RRF 10 = GAX03S10

RRF 20 = GAX01S20 RRF 40 = GAX06S40 RRF 80 = GAX07S80

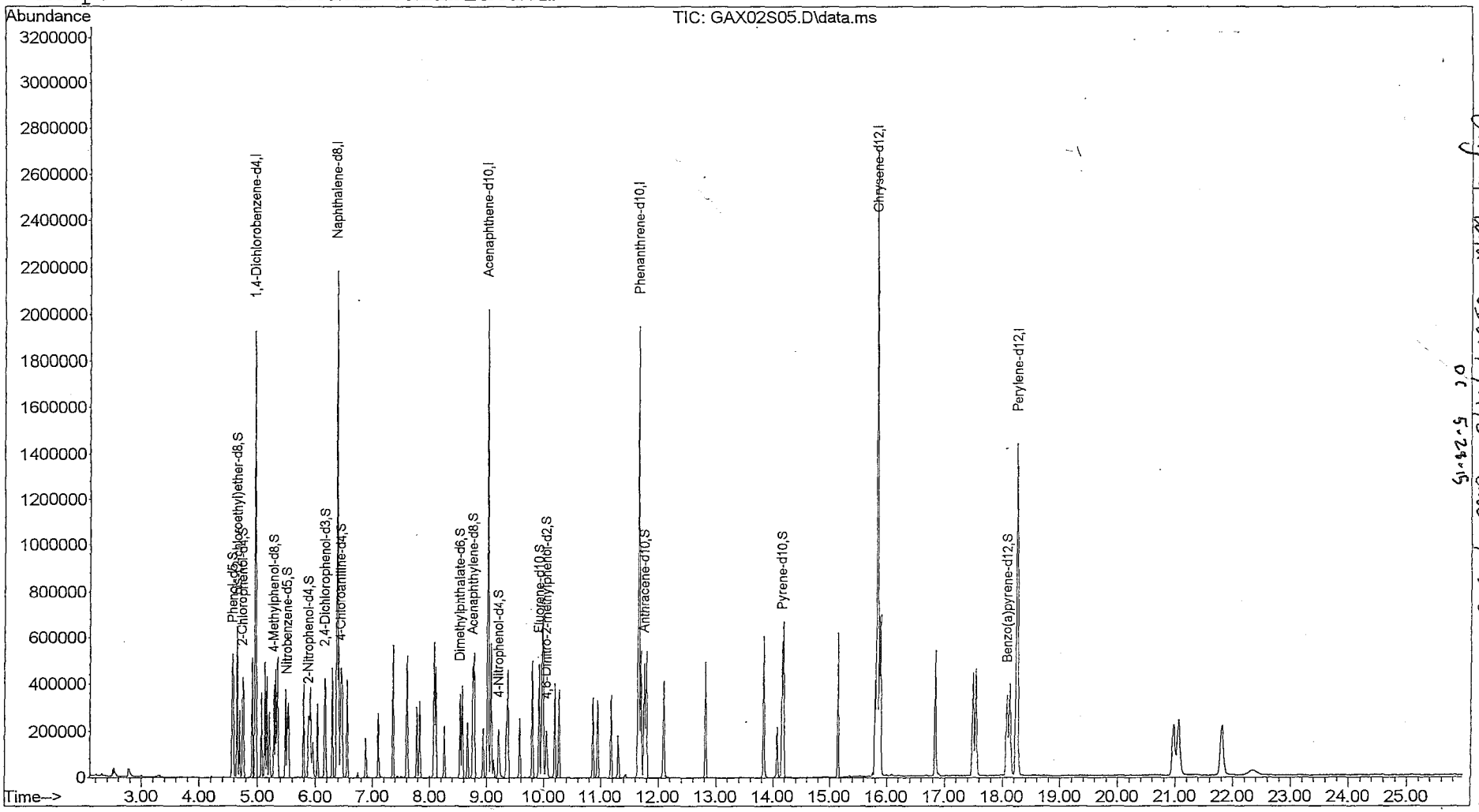
COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	%RSD
Phenol-d5	1.477	1.403	1.423	1.351	1.319	1.395	4.4
Bis(2-chloroethyl)ether-d8	0.902	0.865	0.870	0.817	0.817	0.854	4.3
2-Chlorophenol-d4	1.451	1.374	1.397	1.335	1.290	1.369	4.4
4-Methylphenol-d8	1.128	1.096	1.102	1.056	1.046	1.086	3.1
Nitrobenzene-d5	0.176	0.167	0.170	0.164	0.162	0.168	3.3
2-Nitrophenol-d4	0.197	0.185	0.188	0.184	0.181	0.187	3.3
2,4-Dichlorophenol-d3	0.286	0.277	0.278	0.270	0.259	0.274	3.7
4-Chloroaniline-d4	0.374	0.360	0.307	0.250	0.194	0.297	25.5
Dimethylphthalate-d6	1.270	1.234	1.235	1.195	1.148	1.216	3.8
Acenaphthylene-d8	1.707	1.655	1.663	1.585	1.506	1.623	4.9
4-Nitrophenol-d4		0.255	0.265	0.261	0.255	0.259	2.0
Fluorene-d10	1.108	1.077	1.079	1.032	0.986	1.056	4.5
4,6-Dinitro-2-methylphenol-d2		0.123	0.135	0.133	0.135	0.131	4.4
Anthracene-d10	1.075	1.047	1.039	0.962	0.936	1.012	5.9
Pyrene-d10	0.946	0.922	0.928	0.885	0.866	0.909	3.6
Benzo(a)pyrene-d12	0.930	0.926	0.934	0.882	0.864	0.907	3.5

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX02S05.D Vial: 2
Acq On : 05/27/2015 16:21 Operator: DJC
Sample : SSTD005GX 28167 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 28 10:03:36 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration



Original with SDG: F9K48 Case: 45316
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)

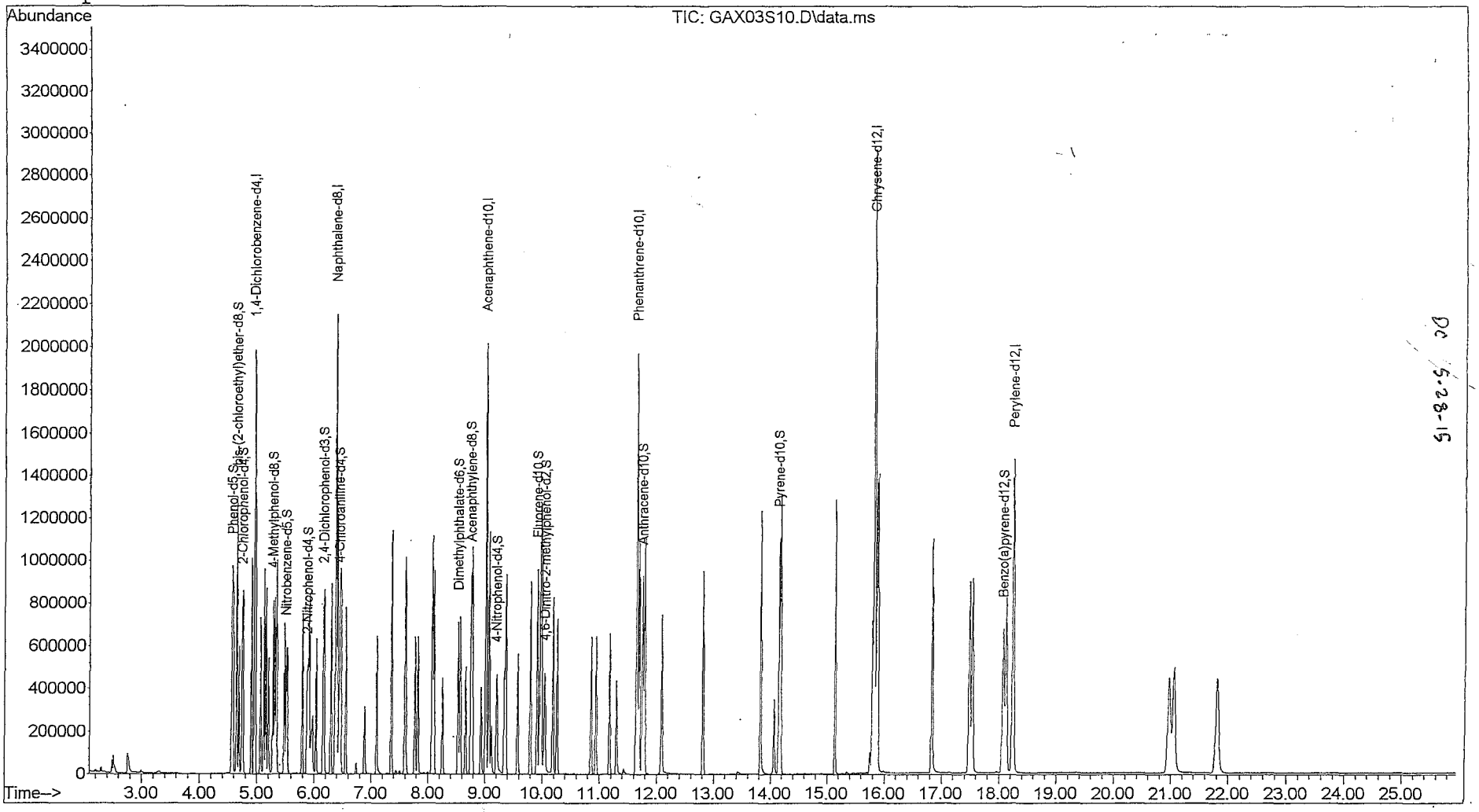
00796

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)

00702

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)

09703

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

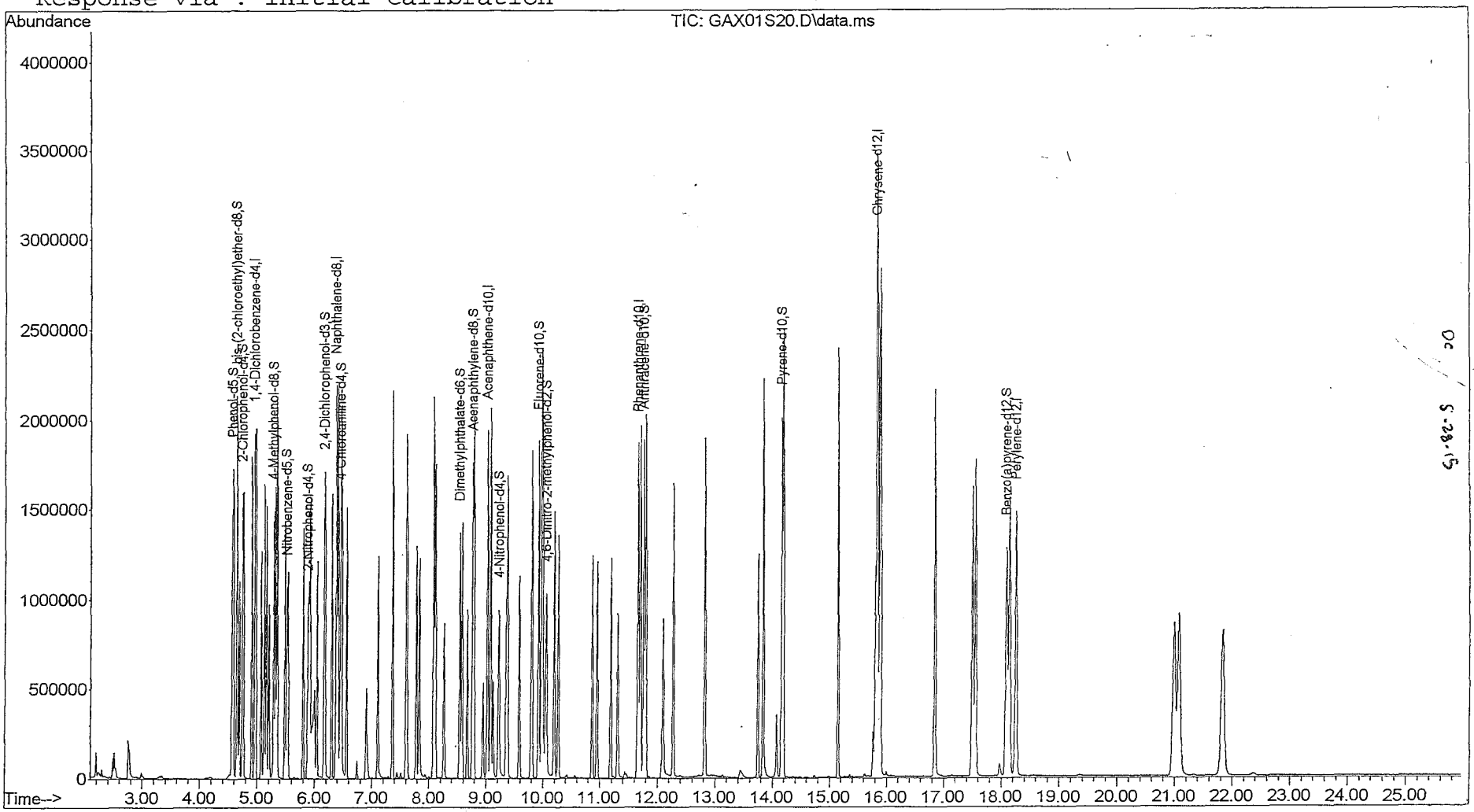
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

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



GAX01S20.D GSOM01D4.M Thu May 28 11:22:42 2015 Page 4

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)

00787

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

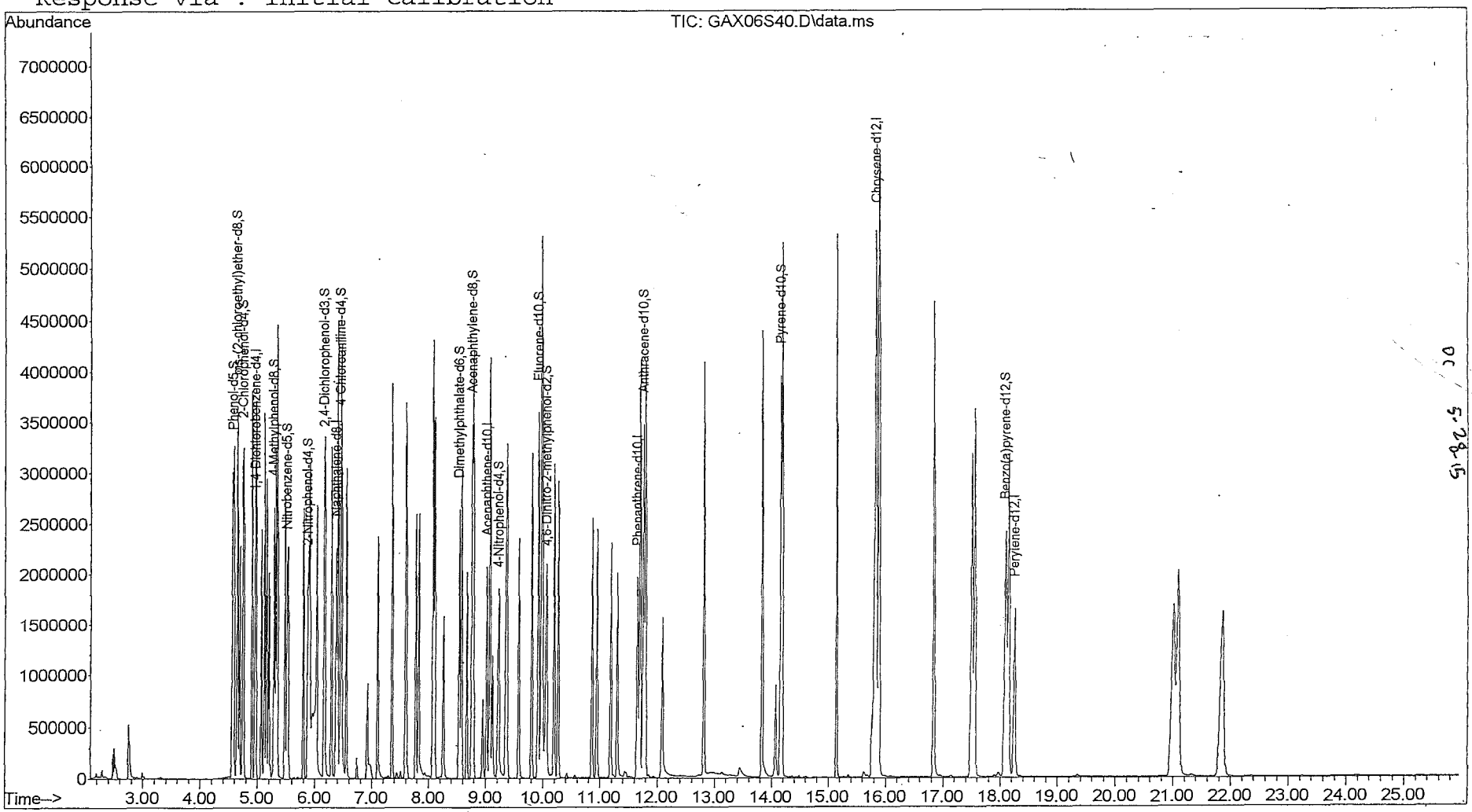
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

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



5-28-15

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)

00719

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	DE 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)

09714

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

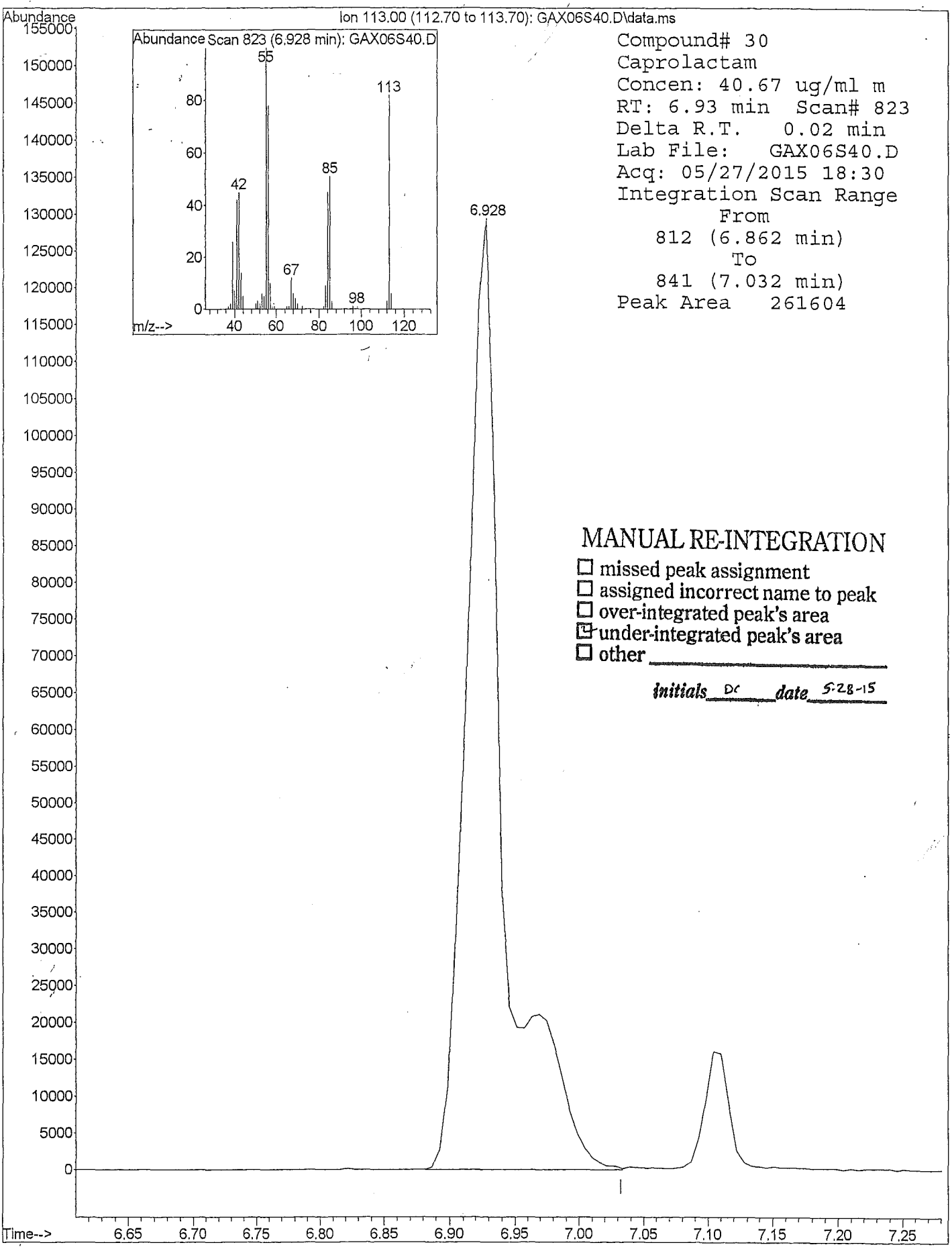
Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration

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)

00712

MANUAL INTEGRATION FOR Caprolactam



Compound# 30
Caprolactam
Concen: 40.67 ug/ml m
RT: 6.93 min Scan# 823
Delta R.T. 0.02 min
Lab File: GAX06S40.D
Acq: 05/27/2015 18:30
Integration Scan Range
From
812 (6.862 min)
To
841 (7.032 min)
Peak Area 261604

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☑ under-integrated peak's area
- ☐ other _____

Initials DC *date* 5-28-15

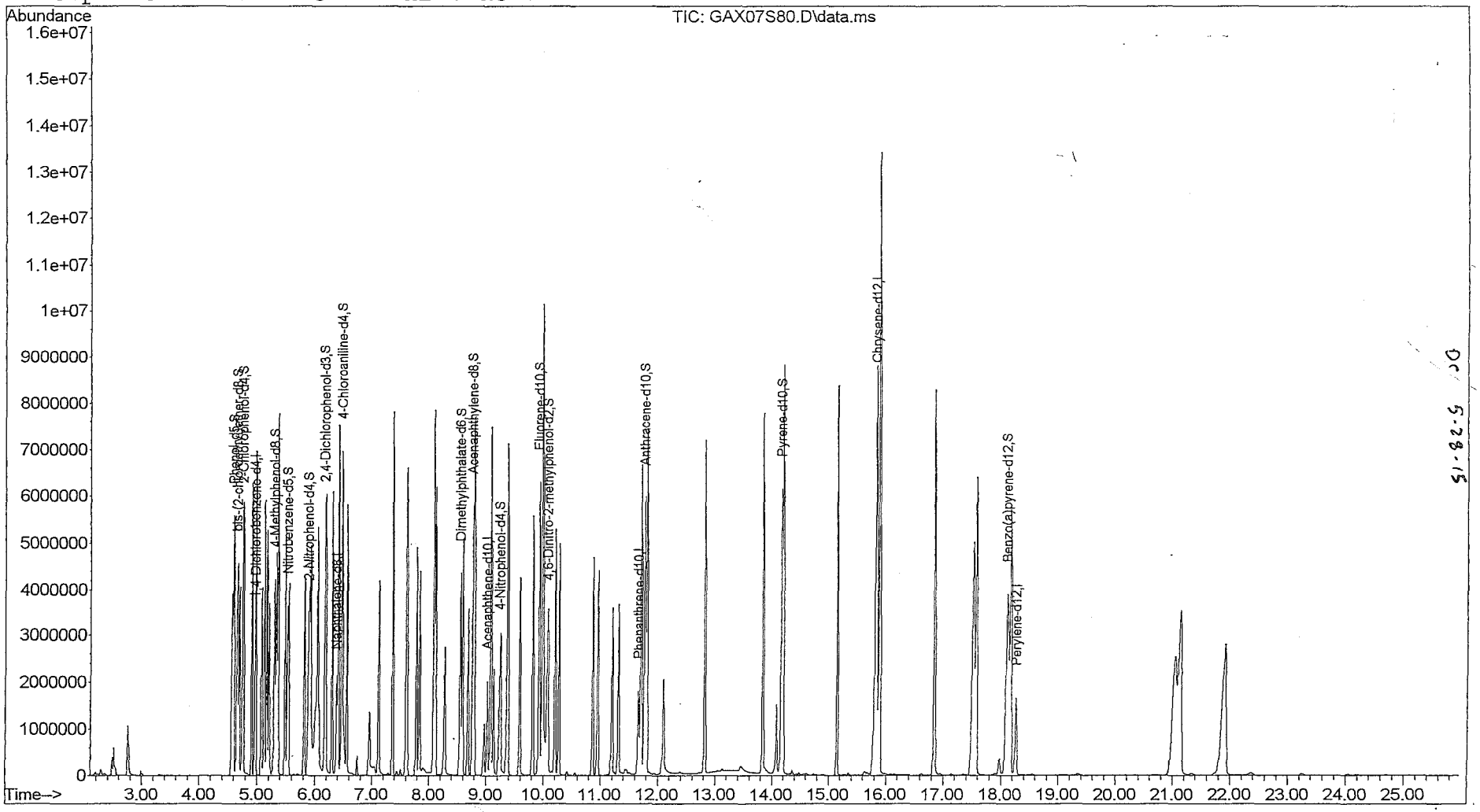
GSOM01D4.M 5975-G GSOM01D4.M SSTD040GX 28170 . X06/19/15

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



GAX07S80.D GSOM01D4.M Thu May 28 11:22:48 2015 Page 4

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	∝ 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

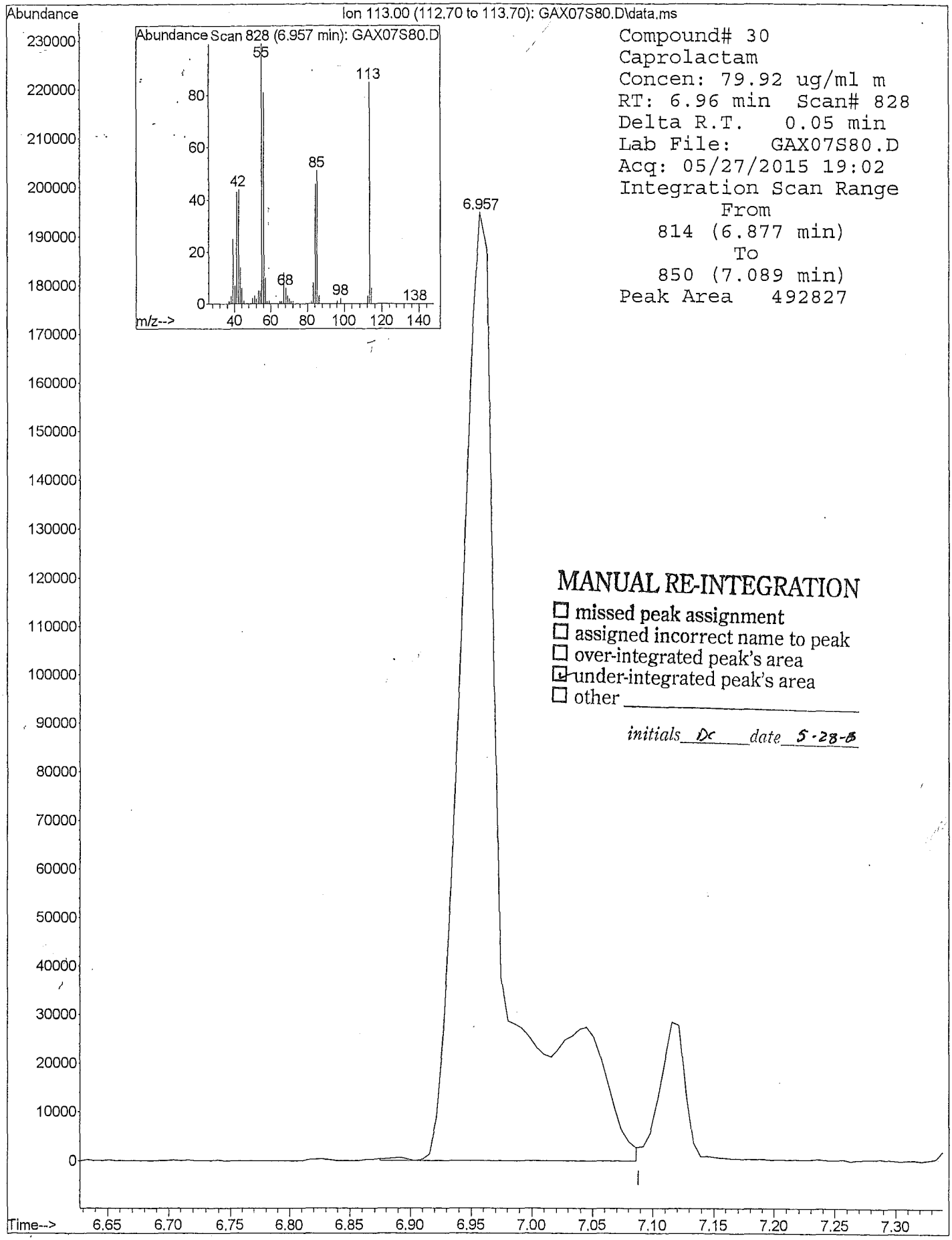
Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX07S80.D Vial: 5
Acq On : 05/27/2015 19:02 Operator: DJC
Sample : SSTD080GX 28171 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 28 11:14:58 2015 Results File: GSOM01D4.RES

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



Compound# 30
Caprolactam
Concen: 79.92 ug/ml m
RT: 6.96 min Scan# 828
Delta R.T. 0.05 min
Lab File: GAX07S80.D
Acq: 05/27/2015 19:02
Integration Scan Range
From
814 (6.877 min)
To
850 (7.089 min)
Peak Area 492827

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☑ under-integrated peak's area
- ☐ other _____

initials DC *date* 5-28-15

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.: F9M21

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.: F9M21

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.: F9M21

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

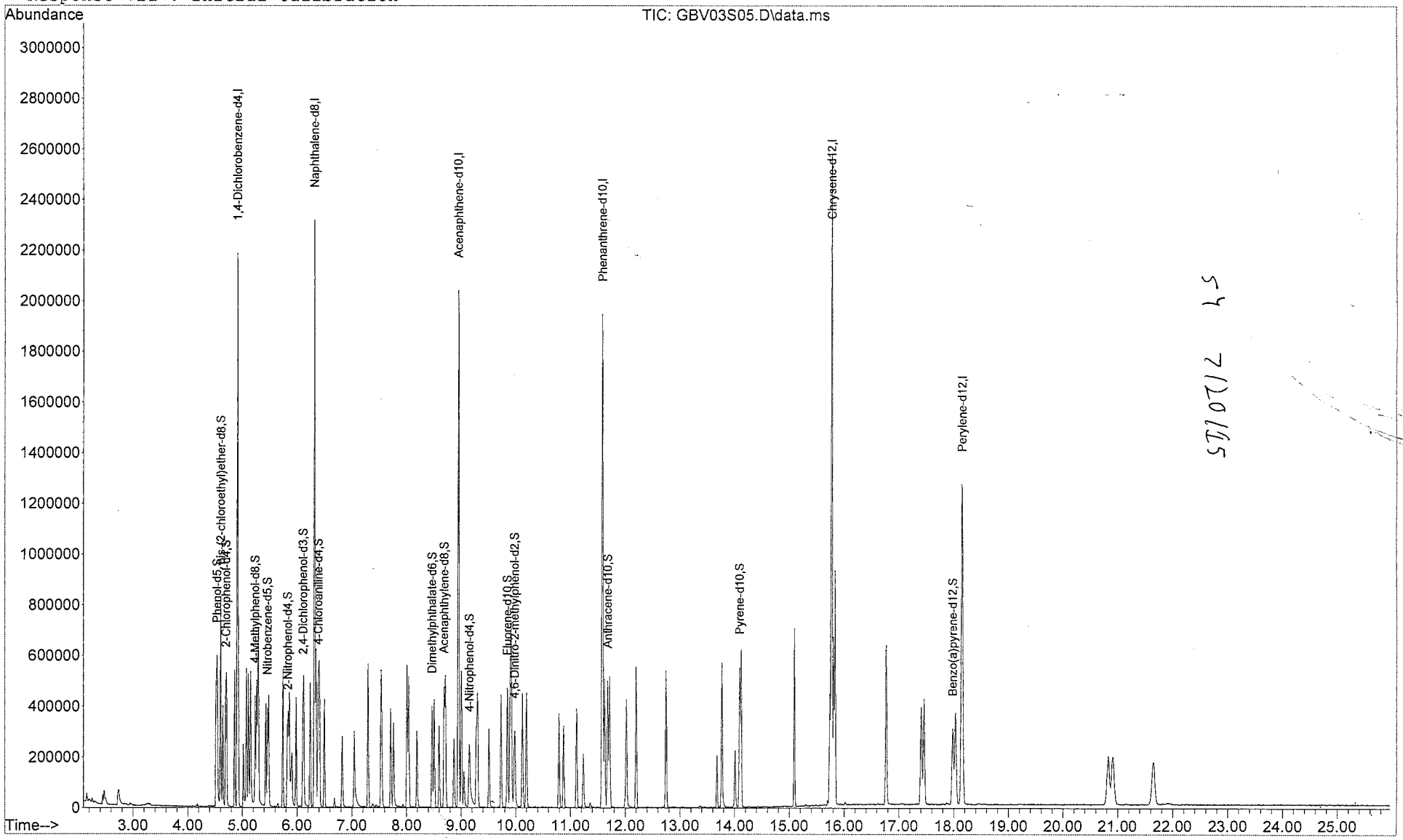
Quantitation Report

Data File : R:\G\2015\JUN15\20JUN15\GBV03S05.D
Acq On : 06/20/2015 11:10
Sample : SSTD005GV 28435
Misc : . X07/19/15
MS Integration Params: rteint.p

Vial: 3
Operator: DJC
Inst : 5975-G
Injection volume : 1uL

Quant Time: Jun 20 11:37:32 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



SY 7/20/15

Quantitation Report

Data File : R:\G\2015\JUN15\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 : 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	4.91	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
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

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

: 09723

Quantitation Report

Data File : R:\G\2015\JUN15\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 : 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	8.72	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
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)

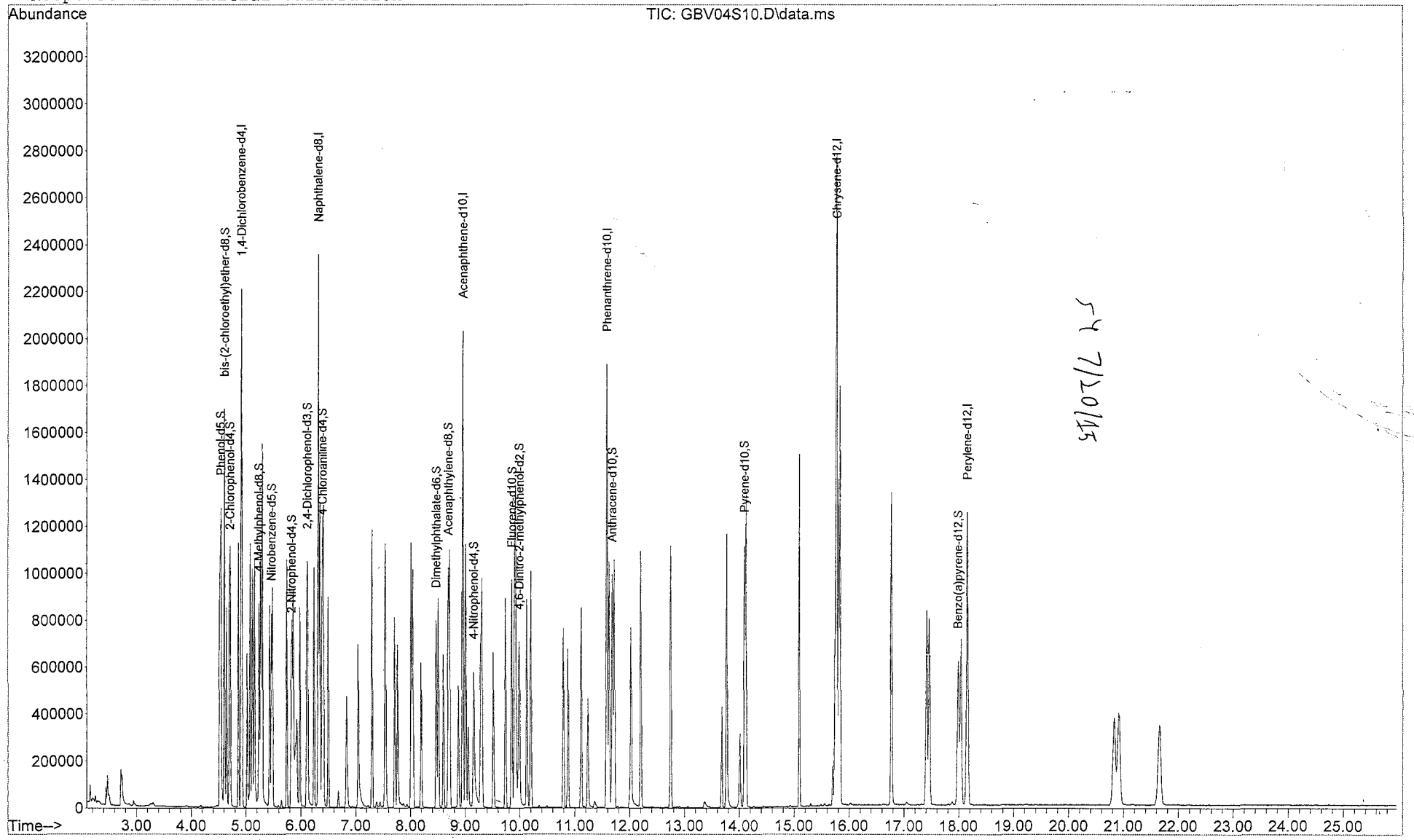
: 00724

Quantitation Report

Data File : R:\G\2015\JUN15\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 : 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\JUN15\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 : 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	4.91	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
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

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

: 09726

Quantitation Report

Data File : R:\G\2015\JUN15\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 : 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	8.72	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
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)

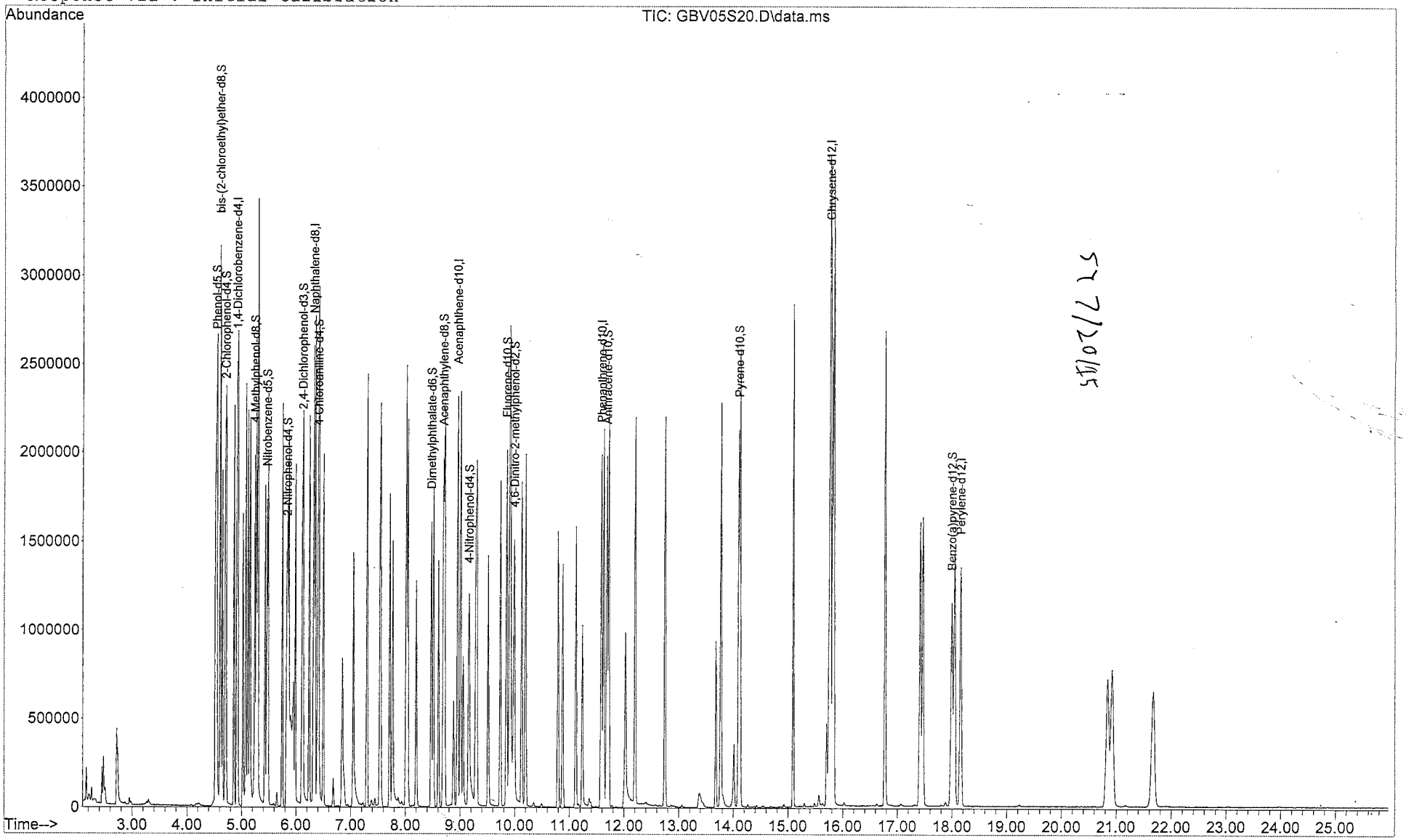
Quantitation Report

Data File : R:\G\2015\JUN15\20JUN15\GBV05S20.D
Acq On : 06/20/2015 12:16
Sample : SSTD020GV 28435 DFTPPGV
Misc : . X07/19/15
MS Integration Params: rteint.p

Vial: 1
Operator: DJC
Inst : 5975-G
Injection volume : 1uL

Quant Time: Jun 20 13:39:18 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



GBV05S20.D GSOM01D6.M Mon Jul 20 07:16:45 2015

Quantitation Report

Data File : R:\G\2015\JUN15\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 : 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	4.91	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
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

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

: 00729

Quantitation Report

Data File : R:\G\2015\JUN15\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 : 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	8.72	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
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)

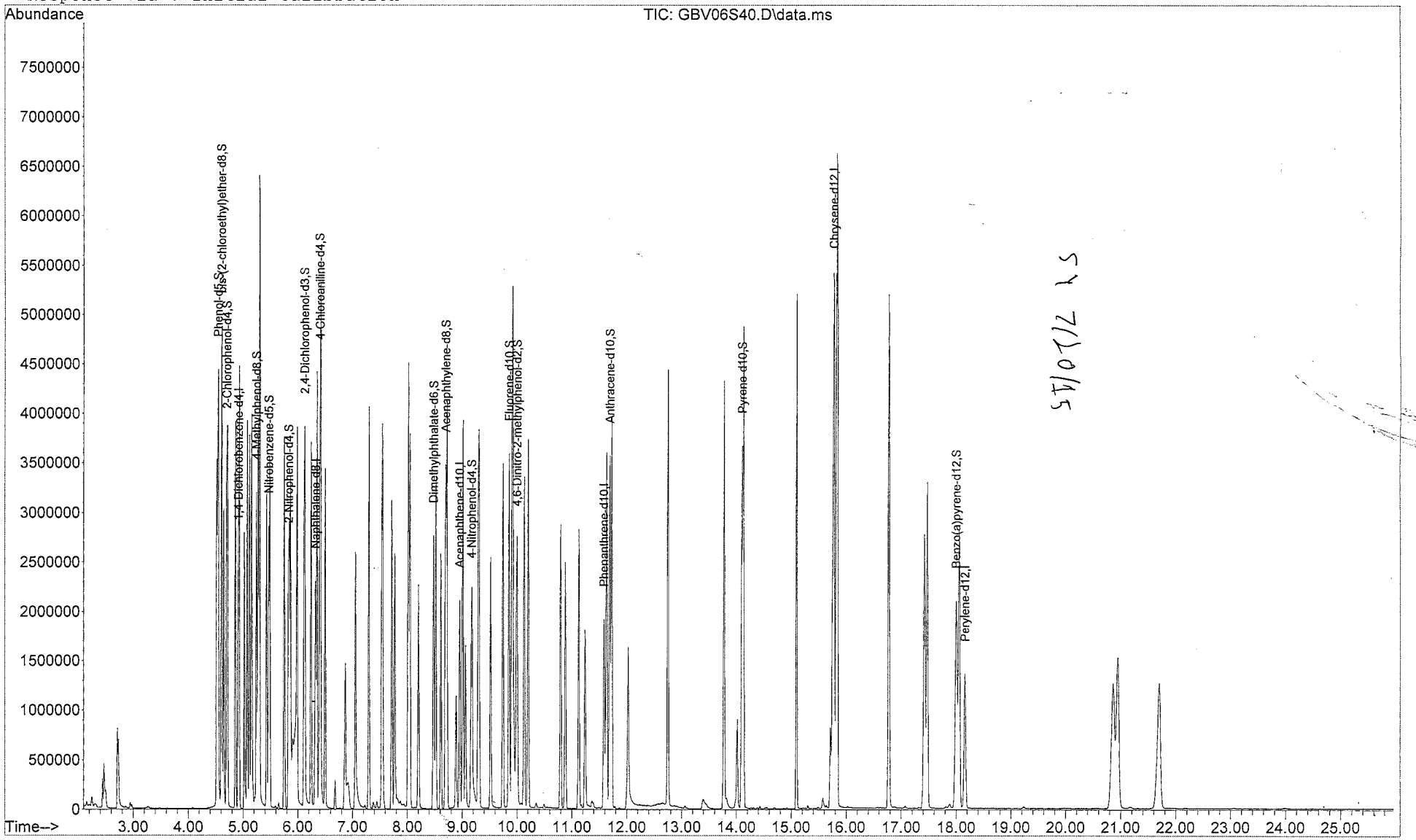
: 00738

Quantitation Report

Data File : R:\G\2015\JUN15\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 : 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\JUN15\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 : 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	4.91	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
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 40
31) 4-Chloro-3-methylphenol	7.05	107	798754	39.818ug/ml 90
32) 2-Methylnaphthalene	7.30	142	1417769	36.574ug/ml 98
34) 1,2,4,5-Tetrachlorobenzene	7.55	216	709316	36.720ug/mL 99
35) Hexachlorocyclopentadiene	7.53	237	567109	41.720ug/ml 99
36) 2,4,6-Trichlorophenol	7.72	196	546717	38.578ug/ml 98
37) 2,4,5-Trichlorophenol	7.77	196	551225	40.542ug/ml 97
38) 1,1'-Biphenyl	8.02	154	1837236	39.291ug/ml 96
39) 2-Chloronaphthalene	8.05	162	1534212	38.088ug/ml 96
40) 2-Nitroaniline	8.20	65	603413	37.211ug/ml 77
41) Dimethylphthalate	8.52	163	1742090	39.358ug/ml 100
43) 2,6-Dinitrotoluene	8.62	165	397732	39.648ug/ml 91

7/20/15

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

: 00732

Quantitation Report

Data File : R:\G\2015\JUN15\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

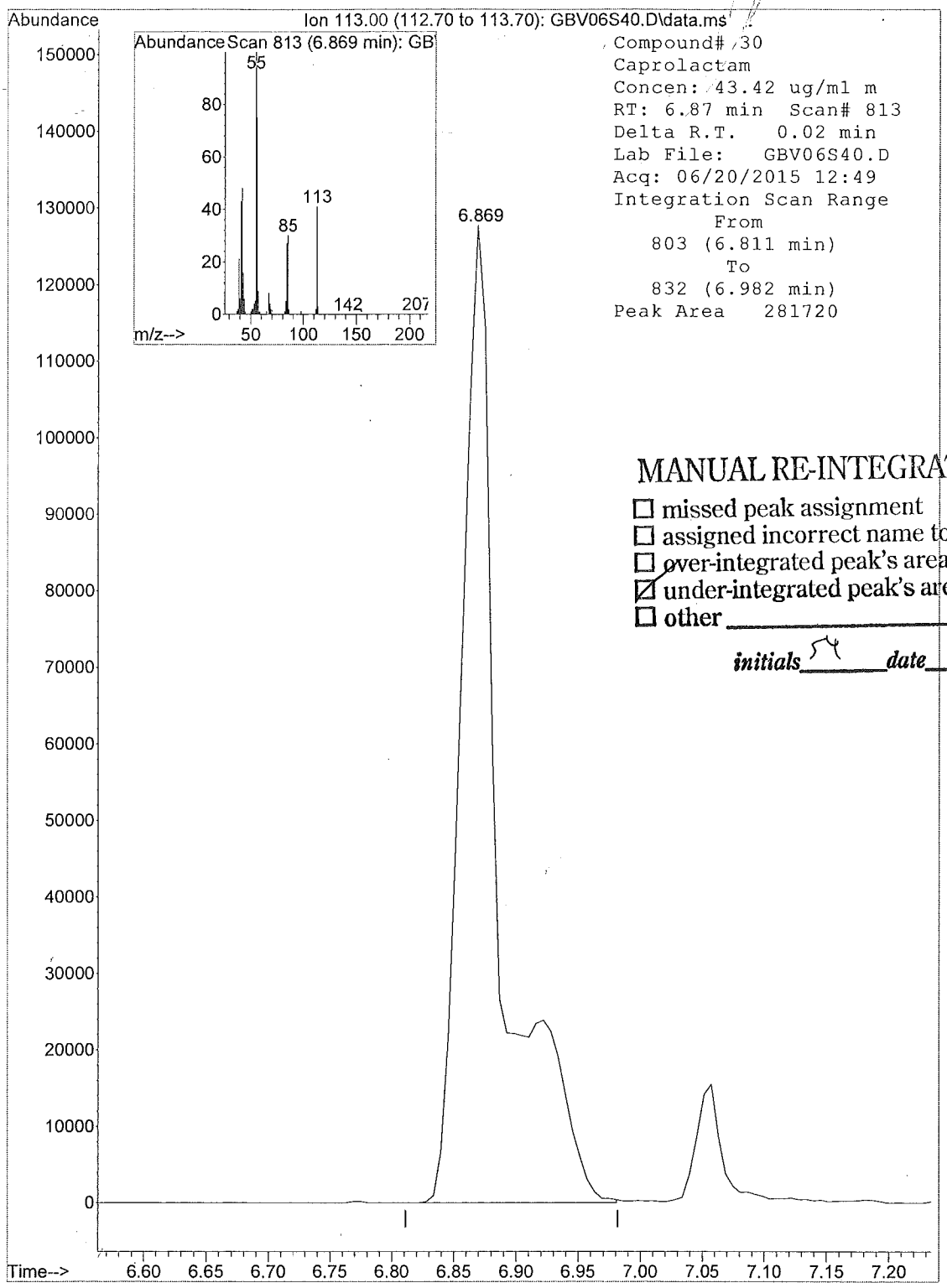
Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44)	Acenaphthylene	8.72	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
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)

: 00733

M A N U A L I N T E G R A T I O N FOR Caprolactam



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* 7/20/15

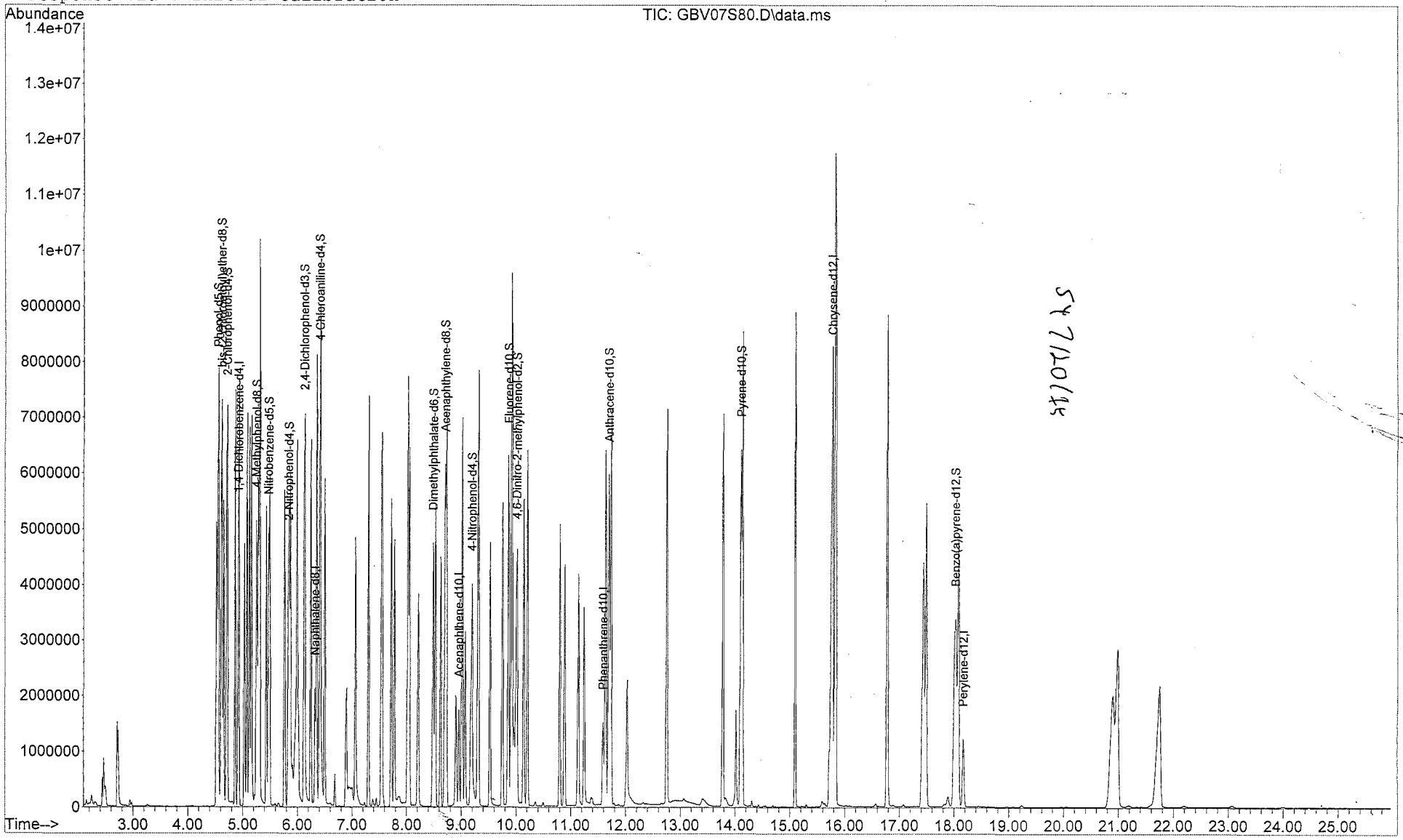
GSOM01D6.M 5975-G GSOM01D6.M SSTD040GV 28436 . X07/19/15

Quantitation Report

Data File : R:\G\2015\JUN15\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 : 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\JUN15\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 : 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	4.92	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
27) 4-Chloroaniline	6.42	127	1371977	74.468ug/ml	88
29) Hexachlorobutadiene	6.50	225	889645	81.499ug/ml	99
30) Caprolactam	6.90	113	488213	84.658ug/ml	m 44
31) 4-Chloro-3-methylphenol	7.06	107	1488509	85.361ug/ml	90
32) 2-Methylnaphthalene	7.30	142	2688249	81.430ug/ml	98
34) 1,2,4,5-Tetrachlorobenzene	7.56	216	1297848	79.407ug/mL	98
35) Hexachlorocyclopentadiene	7.54	237	1026104	86.457ug/ml	99
36) 2,4,6-Trichlorophenol	7.72	196	1021200	84.166ug/ml	99
37) 2,4,5-Trichlorophenol	7.78	196	1032676	87.628ug/ml	99
38) 1,1'-Biphenyl	8.02	154	3095265	76.971ug/ml	97
39) 2-Chloronaphthalene	8.05	162	2684690	78.089ug/ml	97
40) 2-Nitroaniline	8.22	65	1197493	87.522ug/ml	76
41) Dimethylphthalate	8.53	163	3158299	82.934ug/ml	99
43) 2,6-Dinitrotoluene	8.63	165	717048	82.929ug/ml	90

7/20/15

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

00736

Quantitation Report

Data File : R:\G\2015\JUN15\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

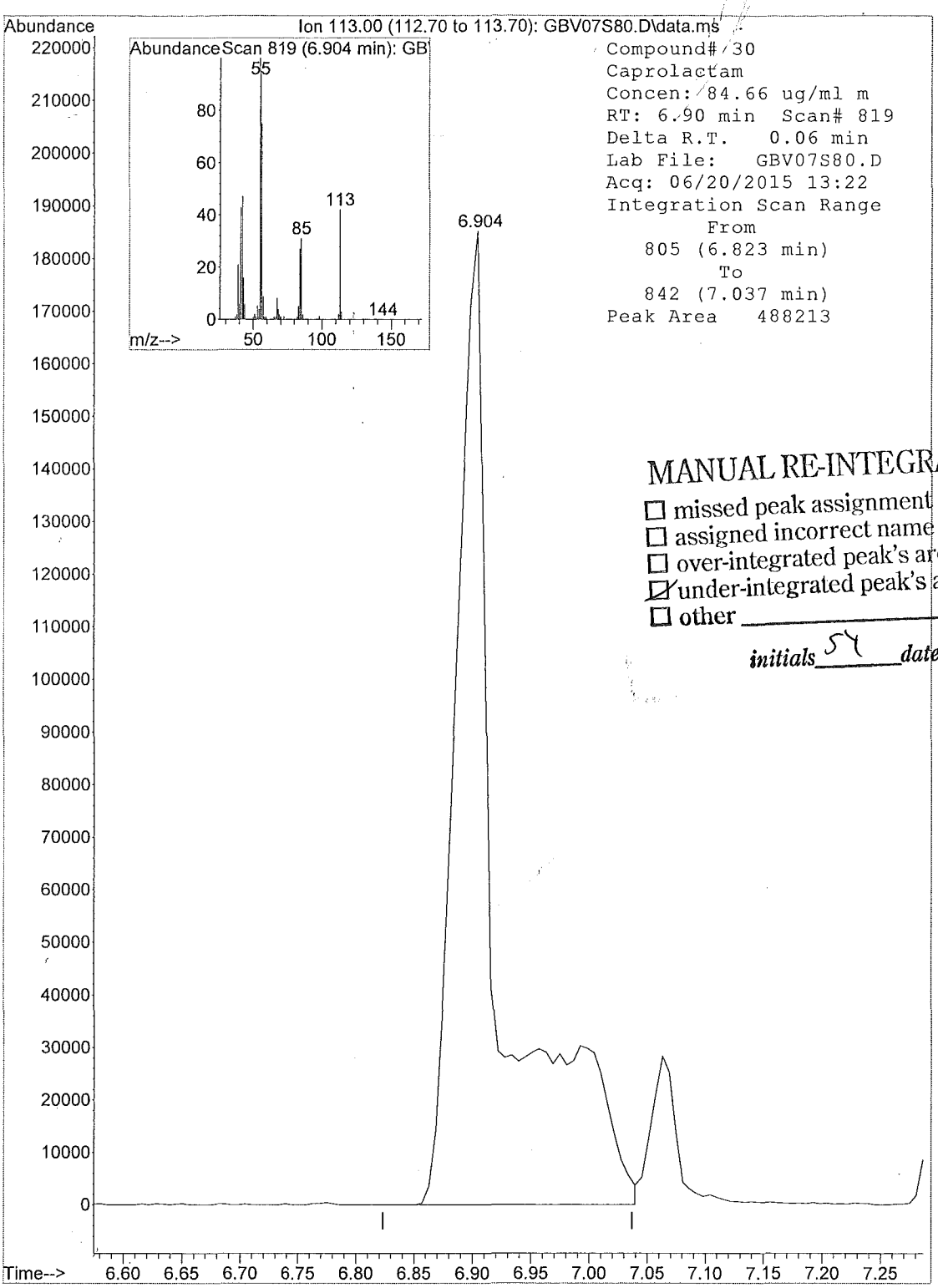
Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44)	Acenaphthylene	8.73	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
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)

00737

M A N U A L I N T E G R A T I O N FOR Caprolactam



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* 7/20/15

7E - FORM VII SV-1
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

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

Instrument ID: 5975-G Calibration Date: 06/12/2015 Time: 16:39

Lab File ID: GBK02S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020GK Init. Calib. Time(s): 15:49 19:02

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Benzaldehyde	0.837	0.745	0.010	-11.0	40.0
Phenol	1.411	1.403	0.800	-0.6	25.0
Bis(2-chloroethyl)ether	1.177	1.163	0.700	-1.2	25.0
2-Chlorophenol	1.301	1.328	0.800	2.1	25.0
2-Methylphenol	1.092	1.046	0.700	-4.3	25.0
2,2'-Oxybis(1-chloropropane)	1.329	1.175	0.010	-11.6	40.0
Acetophenone	1.566	1.598	0.010	2.0	40.0
4-Methylphenol	1.146	1.125	0.600	-1.8	25.0
N-Nitroso-di-n-propylamine	0.687	0.668	0.500	-2.7	25.0
Hexachloroethane	0.595	0.618	0.300	4.0	25.0
Nitrobenzene	0.309	0.301	0.200	-2.6	25.0
Isophorone	0.535	0.529	0.400	-1.2	25.0
2-Nitrophenol	0.197	0.199	0.100	0.8	25.0
2,4-Dimethylphenol	0.307	0.311	0.200	1.3	25.0
Bis(2-chloroethoxy)methane	0.354	0.339	0.300	-4.3	25.0
2,4-Dichlorophenol	0.272	0.284	0.200	4.2	25.0
Naphthalene	1.009	0.992	0.700	-1.7	25.0
4-Chloroaniline	0.334	0.287	0.010	-13.9	40.0
Hexachlorobutadiene	0.173	0.181	0.010	4.5	40.0
Caprolactam	0.098	0.098	0.010	0.1	40.0
4-Chloro-3-methylphenol	0.266	0.274	0.200	3.0	25.0
2-Methylnaphthalene	0.645	0.652	0.400	1.1	25.0
Hexachlorocyclopentadiene	0.352	0.383	0.010	8.8	40.0
2,4,6-Trichlorophenol	0.351	0.362	0.200	3.1	25.0
2,4,5-Trichlorophenol	0.377	0.378	0.200	0.2	25.0
1,1'-Biphenyl	1.393	1.400	0.010	0.5	40.0
2-Chloronaphthalene	1.081	1.105	0.800	2.2	25.0
2-Nitroaniline	0.284	0.276	0.010	-2.6	40.0
Dimethylphthalate	1.247	1.255	0.010	0.7	40.0
2,6-Dinitrotoluene	0.288	0.297	0.200	3.4	25.0
Acenaphthylene	1.828	1.843	0.900	0.8	25.0
3-Nitroaniline	0.206	0.218	0.010	6.0	40.0
Acenaphthene	1.126	1.140	0.900	1.3	25.0

7F - FORM VII SV-2
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

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

Instrument ID: 5975-G Calibration Date: 06/12/2015 Time: 16:39

Lab File ID: GBK02S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020GK Init. Calib. Time(s): 15:49 19:02

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
2,4-Dinitrophenol	0.176	0.185	0.010	4.8	40.0
4-Nitrophenol	0.153	0.147	0.010	-4.1	40.0
Dibenzofuran	1.478	1.501	0.800	1.5	25.0
2,4-Dinitrotoluene	0.388	0.400	0.200	3.0	25.0
Diethylphthalate	1.290	1.305	0.010	1.2	40.0
Fluorene	1.226	1.243	0.900	1.4	25.0
4-Chlorophenyl-phenylether	0.582	0.587	0.400	0.9	25.0
4-Nitroaniline	0.238	0.268	0.010	12.3	40.0
4,6-Dinitro-2-methylphenol	0.149	0.154	0.010	3.3	40.0
N-Nitrosodiphenylamine (1)	0.523	0.523	0.010	0.0	40.0
1,2,4,5-Tetrachlorobenzene	0.495	0.509	0.010	2.8	40.0
4-Bromophenyl-phenylether	0.203	0.203	0.100	-0.4	25.0
Hexachlorobenzene	0.224	0.235	0.100	5.0	25.0
Atrazine	0.191	0.206	0.010	7.9	40.0
Pentachlorophenol	0.141	0.141	0.050	-0.5	25.0
Phenanthrene	1.094	1.095	0.700	0.1	25.0
Anthracene	1.116	1.126	0.700	0.8	25.0
Carbazole	0.675	0.819	0.010	21.3	40.0
Di-n-butylphthalate	1.380	1.448	0.010	4.9	40.0
Fluoranthene	1.128	1.150	0.600	2.0	25.0
Pyrene	1.238	1.241	0.600	0.2	25.0
Butylbenzylphthalate	0.656	0.661	0.010	0.9	40.0
3,3'-Dichlorobenzidine	0.323	0.322	0.010	-0.2	40.0
Benzo(a)anthracene	1.137	1.117	0.800	-1.7	25.0
Chrysene	1.032	1.032	0.700	0.0	25.0
Bis(2-ethylhexyl)phthalate	0.965	1.000	0.010	3.6	40.0
Di-n-octylphthalate	1.688	1.743	0.010	3.2	40.0
Benzo(b)fluoranthene	1.163	1.187	0.700	2.1	25.0
Benzo(k)fluoranthene	1.127	1.133	0.700	0.5	25.0
Benzo(a)pyrene	1.121	1.127	0.700	0.5	25.0
Indeno(1,2,3-cd)pyrene	1.099	1.118	0.500	1.7	25.0
Dibenzo(a,h)anthracene	1.128	1.152	0.400	2.2	25.0
Benzo(g,h,i)perylene	1.113	1.131	0.500	1.6	25.0
2,3,4,6-Tetrachlorophenol	0.284	0.298	0.100	4.8	25.0

(1) Cannot be separated from Diphenylamine

7G - FORM VII SV-3
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

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

Instrument ID: 5975-G Calibration Date: 06/12/2015 Time: 16:39

Lab File ID: GBK02S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020GK Init. Calib. Time(s): 15:49 19:02

GC Column: DB5MS ID: 0.32 (mm)

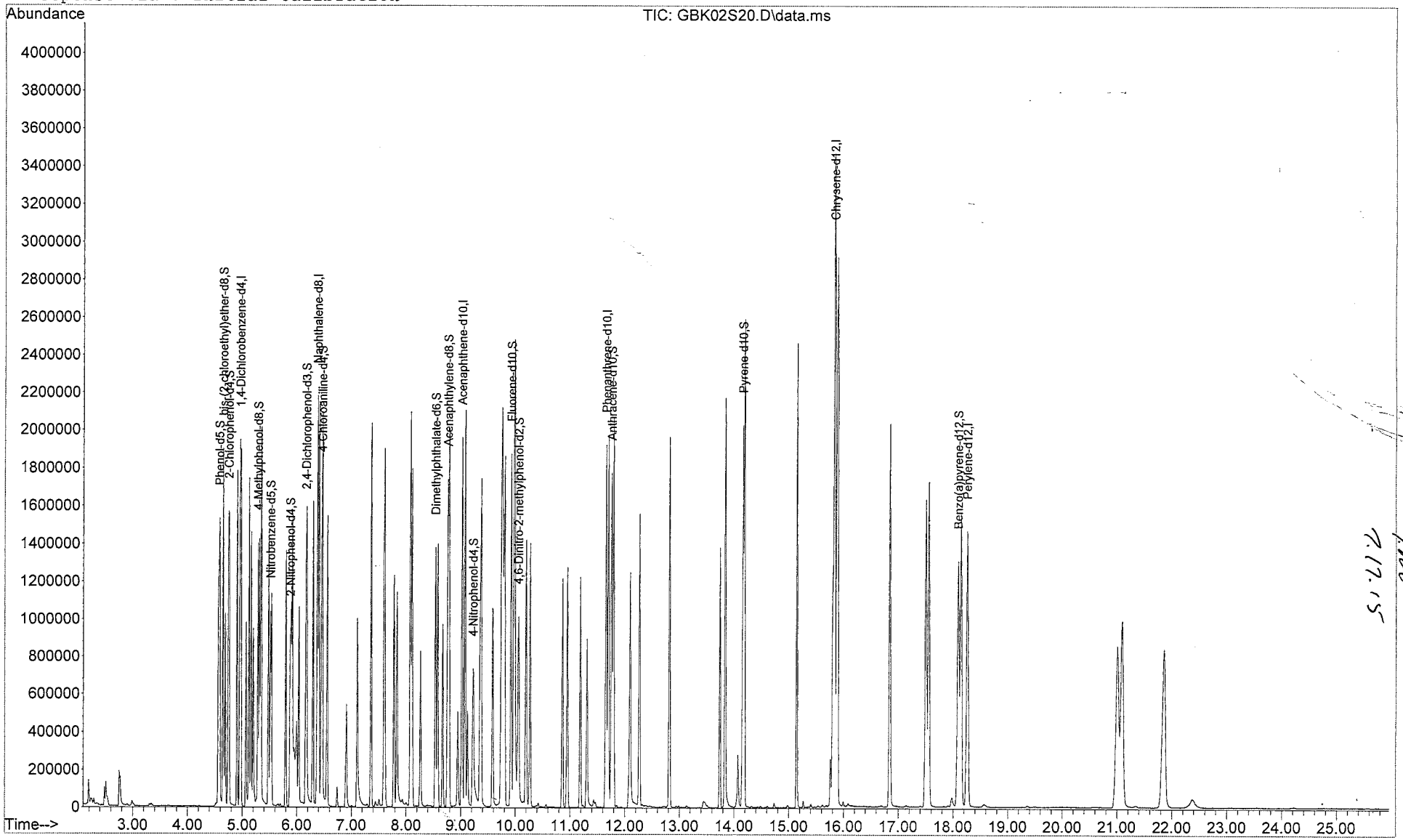
COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	1.395	1.360	0.010	-2.5	25.0
Bis(2-chloroethyl)ether-d8	0.854	0.821	0.010	-3.8	25.0
2-Chlorophenol-d4	1.369	1.386	0.010	1.2	25.0
4-Methylphenol-d8	1.086	1.049	0.010	-3.4	25.0
Nitrobenzene-d5	0.168	0.167	0.010	-0.6	25.0
2-Nitrophenol-d4	0.187	0.189	0.010	1.2	25.0
2,4-Dichlorophenol-d3	0.274	0.278	0.010	1.4	25.0
4-Chloroaniline-d4	0.297	0.243	0.010	-18.2	40.0
Dimethylphthalate-d6	1.216	1.255	0.010	3.2	40.0
Acenaphthylene-d8	1.623	1.654	0.010	1.9	25.0
4-Nitrophenol-d4	0.259	0.253	0.010	-2.2	40.0
Fluorene-d10	1.056	1.086	0.010	2.8	25.0
4,6-Dinitro-2-methylphenol-d2	0.131	0.135	0.010	2.7	40.0
Anthracene-d10	1.012	1.029	0.010	1.7	25.0
Pyrene-d10	0.909	0.924	0.010	1.7	25.0
Benzo(a)pyrene-d12	0.907	0.932	0.010	2.8	25.0

Quantitation Report

Data File : R:\G\2015\JUN15\12JUN15\12JUN15\GBK02S20.D Vial: 1
Acq On : 06/12/2015 16:39 Operator: DJC
Sample : SSTD020GK 28296 DFTPPGK Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 12 17:05:39 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\12JUN15\12JUN15\GBK02S20.D Vial: 1
Acq On : 06/12/2015 16:39 Operator: DJC
Sample : SSTD020GK 28296 DFTPPGK Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 12 17:05:39 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	331787	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1253617	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	697317	20.00 ug/ml
59) Phenanthrene-d10	11.66	188	1142317	20.00 ug/ml
73) Chrysene-d12	15.84	240	1108122	20.00 ug/ml
81) Perylene-d12	18.26	264	1089928	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.58	99	451216	19.502ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	272466	19.233ug/mL
7) 2-Chlorophenol-d4	4.75	132	459900	20.245ug/ml
13) 4-Methylphenol-d8	5.29	113	348026	19.320ug/mL
17) Nitrobenzene-d5	5.52	128	208999	19.871ug/ml
21) 2-Nitrophenol-d4	5.88	143	237175	20.234ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	348283	20.283ug/mL
28) 4-Chloroaniline-d4	6.45	131	304709	16.359ug/mL
42) Dimethylphthalate-d6	8.54	166	875470	20.644ug/mL
45) Acenaphthylene-d8	8.76	160	1153674	20.384ug/mL
50) 4-Nitrophenol-d4	9.22	143	176696	19.566ug/mL
57) Fluorene-d10	9.92	176	757401	20.562ug/mL
61) 4,6-Dinitro-2-methylphenol	10.05	200	154067	20.533ug/mL
69) Anthracene-d10	11.76	188	1175717	20.347ug/mL
75) Pyrene-d10	14.16	212	1024411	20.334ug/mL
86) Benzo(a)pyrene-d12	18.09	264	1016020	20.551ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.56	77	247207	17.806ug/ml 92
4) Phenol	4.59	94	465358	19.882ug/ml 97
5) Bis(2-chloroethyl)ether	4.69	93	385874	19.769ug/ml 86
8) 2-Chlorophenol	4.76	128	440754	20.420ug/ml 93
9) 2-Methylphenol	5.16	108	346915	19.150ug/ml 98
10) 2,2'-Oxybis-(1-chloropropa	5.20	45	389734	17.675ug/ml 100
11) Acetophenone	5.35	105	530292	20.409ug/ml 97
12) 4-methylphenol	5.32	108	373157	19.634ug/ml 94
14) N-Nitroso-di-n-propylamine	5.34	70	221743	19.452ug/ml 95
15) Hexachloroethane	5.48	117	205095	20.794ug/ml 97
18) Nitrobenzene	5.53	77	377069	19.472ug/ml 95
19) Isophorone	5.80	82	662987	19.761ug/ml 97
20) 2-Nitrophenol	5.89	139	249381	20.150ug/ml 99
22) 2,4-Dimethylphenol	5.92	107	390271	20.269ug/ml 89
23) Bis(2-chloroethoxy)methane	6.04	93	424836	19.131ug/ml 99
24) 2,4-Dichlorophenol	6.18	162	355774	20.840ug/ml 98
26) Naphthalene	6.40	128	1243595	19.654ug/ml 100
27) 4-Chloroaniline	6.46	127	359997	17.210ug/ml 96
29) Hexachlorobutadiene	6.56	225	226725	20.900ug/ml 99
30) Caprolactam	6.91	113	122570	20.014ug/ml 70
31) 4-Chloro-3-methylphenol	7.10	107	344018	20.598ug/ml 95
32) 2-Methylnaphthalene	7.36	142	816813	20.219ug/ml 97
34) 1,2,4,5-Tetrachlorobenzene	7.61	216	354797	20.567ug/mL 98
35) Hexachlorocyclopentadiene	7.60	237	267205	21.766ug/ml 99
36) 2,4,6-Trichlorophenol	7.78	196	252560	20.614ug/ml 99
37) 2,4,5-Trichlorophenol	7.83	196	263713	20.039ug/ml 99
38) 1,1'-Biphenyl	8.08	154	976509	20.102ug/ml 96
39) 2-Chloronaphthalene	8.11	162	770462	20.448ug/ml 97
40) 2-Nitroaniline	8.26	65	192742	19.487ug/ml 85
41) Dimethylphthalate	8.58	163	875447	20.131ug/ml 99
43) 2,6-Dinitrotoluene	8.67	165	207377	20.682ug/ml 88

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

00743

Quantitation Report

Data File : R:\G\2015\JUN15\12JUN15\12JUN15\GBK02S20.D Vial: 1
Acq On : 06/12/2015 16:39 Operator: DJC
Sample : SSTD020GK 28296 DFTPPGK Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 12 17:05:39 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	1284854	20.159ug/ml	99
46)	3-Nitroaniline	8.95	138	152210	21.191ug/ml	93
47)	Acenaphthene	9.08	153	795206	20.257ug/ml	93
48)	2,4-Dinitrophenol	9.13	184	128943	20.969ug/ml	100
49)	4-Nitrophenol	9.23	109	102526	19.186ug/ml	91
51)	Dibenzofuran	9.37	168	1046602	20.309ug/ml	98
52)	2,4-Dinitrotoluene	9.35	165	279050	20.608ug/ml	95
53)	2,3,4,6-Tetrachlorophenol	9.59	232	207554	20.951ug/mL	99
54)	Diethylphthalate	9.80	149	910223	20.241ug/ml	97
55)	4-Chlorophenyl-phenylether	9.99	204	409501	20.183ug/ml	98
56)	Fluorene	9.97	166	867113	20.282ug/ml	98
58)	4-Nitroaniline	10.00	138	186555	22.466ug/ml	58
60)	4,6-Dinitro-2-methylphenol	10.06	198	175463	20.661ug/ml	91
62)	N-Nitrosodiphenylamine	10.20	169	597497	20.000ug/ml	99
63)	4-Bromophenyl-phenyl ether	10.86	248	231445	19.926ug/ml	99
64)	Hexachlorobenzene	10.95	284	268339	21.009ug/ml	86
65)	Atrazine	11.19	200	235730	21.578ug/ml	97
66)	Pentachlorophenol	11.31	266	160678	19.898ug/ml	99
67)	Phenanthrene	11.70	178	1251128	20.027ug/ml	99
68)	Anthracene	11.79	178	1285798	20.169ug/ml	100
70)	Carbazole	12.10	167	935400	24.259ug/mL	98
71)	Di-n-butylphthalate	12.82	149	1654344	20.990ug/ml	99
72)	Fluoranthene	13.83	202	1313519	20.390ug/ml	95
74)	Pyrene	14.19	202	1375713	20.049ug/ml	95
76)	Butylbenzylphthalate	15.14	149	732944	20.170ug/ml	90
77)	3,3'-Dichlorobenzidine	15.80	252	357329	19.967ug/ml	99
78)	Benzo(a)anthracene	15.82	228	1238320	19.665ug/ml	100
79)	Chrysene	15.87	228	1143562	20.004ug/ml	99
80)	Bis-(2-ethylhexyl)phthalat	15.89	149	1108504	20.727ug/ml	97
82)	Di-n-octylphthalate	16.84	149	1899377	20.648ug/ml	100
83)	Benzo(b)fluoranthene	17.50	252	1293799	20.421ug/ml	98
84)	Benzo(k)fluoranthene	17.56	252	1234676	20.097ug/ml	98
85)	Benzo(a)pyrene	18.14	252	1228120	20.096ug/ml	97
87)	Indeno(1,2,3-c,d)pyrene	21.00	276	1218398	20.338ug/ml	91
88)	Dibenzo(a,h)anthracene	21.09	278	1255714	20.431ug/ml	96
89)	Benzo(g,h,i)perylene	21.86	276	1232336	20.311ug/ml	95

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

7E - FORM VII SV-1
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

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

Instrument ID: 5975-G Calibration Date: 06/13/2015 Time: 02:54

Lab File ID: GBK21S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020K1 Init. Calib. Time(s): 15:49 19:02

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Benzaldehyde	0.837	0.720	0.010	-14.0	50.0
Phenol	1.411	1.398	0.010	-0.9	50.0
Bis(2-chloroethyl)ether	1.177	1.078	0.010	-8.3	50.0
2-Chlorophenol	1.301	1.322	0.010	1.6	50.0
2-Methylphenol	1.092	1.050	0.010	-3.8	50.0
2,2'-Oxybis(1-chloropropane)	1.329	1.118	0.010	-15.9	50.0
Acetophenone	1.566	1.589	0.010	1.4	50.0
4-Methylphenol	1.146	1.156	0.010	0.9	50.0
N-Nitroso-di-n-propylamine	0.687	0.643	0.010	-6.4	50.0
Hexachloroethane	0.595	0.591	0.010	-0.6	50.0
Nitrobenzene	0.309	0.305	0.010	-1.4	50.0
Isophorone	0.535	0.542	0.010	1.2	50.0
2-Nitrophenol	0.197	0.198	0.010	0.5	50.0
2,4-Dimethylphenol	0.307	0.323	0.010	5.0	50.0
Bis(2-chloroethoxy)methane	0.354	0.341	0.010	-3.8	50.0
2,4-Dichlorophenol	0.272	0.284	0.010	4.1	50.0
Naphthalene	1.009	1.012	0.010	0.3	50.0
4-Chloroaniline	0.334	0.373	0.010	11.7	50.0
Hexachlorobutadiene	0.173	0.183	0.010	5.5	50.0
Caprolactam	0.098	0.104	0.010	6.0	50.0
4-Chloro-3-methylphenol	0.266	0.283	0.010	6.2	50.0
2-Methylnaphthalene	0.645	0.666	0.010	3.4	50.0
Hexachlorocyclopentadiene	0.352	0.210	0.010	-40.5	50.0
2,4,6-Trichlorophenol	0.351	0.363	0.010	3.4	50.0
2,4,5-Trichlorophenol	0.377	0.380	0.010	0.6	50.0
1,1'-Biphenyl	1.393	1.396	0.010	0.2	50.0
2-Chloronaphthalene	1.081	1.090	0.010	0.9	50.0
2-Nitroaniline	0.284	0.277	0.010	-2.3	50.0
Dimethylphthalate	1.247	1.253	0.010	0.5	50.0
2,6-Dinitrotoluene	0.288	0.301	0.010	4.5	50.0
Acenaphthylene	1.828	1.820	0.010	-0.4	50.0
3-Nitroaniline	0.206	0.289	0.010	40.4	50.0
Acenaphthene	1.126	1.129	0.010	0.3	50.0

7F - FORM VII SV-2
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

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

Instrument ID: 5975-G Calibration Date: 06/13/2015 Time: 02:54

Lab File ID: GBK21S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020K1 Init. Calib. Time(s): 15:49 19:02

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
2,4-Dinitrophenol	0.176	0.140	0.010	-20.7	50.0
4-Nitrophenol	0.153	0.156	0.010	1.5	50.0
Dibenzofuran	1.478	1.505	0.010	1.8	50.0
2,4-Dinitrotoluene	0.388	0.407	0.010	4.7	50.0
Diethylphthalate	1.290	1.310	0.010	1.5	50.0
Fluorene	1.226	1.254	0.010	2.3	50.0
4-Chlorophenyl-phenylether	0.582	0.586	0.010	0.7	50.0
4-Nitroaniline	0.238	0.303	0.010	27.3	50.0
4,6-Dinitro-2-methylphenol	0.149	0.129	0.010	-13.5	50.0
N-Nitrosodiphenylamine (1)	0.523	0.535	0.010	2.2	50.0
1,2,4,5-Tetrachlorobenzene	0.495	0.501	0.010	1.2	50.0
4-Bromophenyl-phenylether	0.203	0.201	0.010	-1.2	50.0
Hexachlorobenzene	0.224	0.231	0.010	3.4	50.0
Atrazine	0.191	0.205	0.010	7.2	50.0
Pentachlorophenol	0.141	0.151	0.010	7.1	50.0
Phenanthrene	1.094	1.100	0.010	0.6	50.0
Anthracene	1.116	1.124	0.010	0.7	50.0
Carbazole	0.675	0.924	0.010	36.8	50.0
Di-n-butylphthalate	1.380	1.418	0.010	2.7	50.0
Fluoranthene	1.128	1.175	0.010	4.2	50.0
Pyrene	1.238	1.216	0.010	-1.8	50.0
Butylbenzylphthalate	0.656	0.657	0.010	0.1	50.0
3,3'-Dichlorobenzidine	0.323	0.389	0.010	20.4	50.0
Benzo(a)anthracene	1.137	1.128	0.010	-0.8	50.0
Chrysene	1.032	1.031	0.010	-0.1	50.0
Bis(2-ethylhexyl)phthalate	0.965	0.969	0.010	0.4	50.0
Di-n-octylphthalate	1.688	1.721	0.010	2.0	50.0
Benzo(b)fluoranthene	1.163	1.155	0.010	-0.6	50.0
Benzo(k)fluoranthene	1.127	1.140	0.010	1.2	50.0
Benzo(a)pyrene	1.121	1.117	0.010	-0.4	50.0
Indeno(1,2,3-cd)pyrene	1.099	0.995	0.010	-9.5	50.0
Dibenzo(a,h)anthracene	1.128	1.051	0.010	-6.8	50.0
Benzo(g,h,i)perylene	1.113	0.951	0.010	-14.6	50.0
2,3,4,6-Tetrachlorophenol	0.284	0.305	0.010	7.4	50.0

(1) Cannot be separated from Diphenylamine

7G - FORM VII SV-3
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

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

Instrument ID: 5975-G Calibration Date: 06/13/2015 Time: 02:54

Lab File ID: GBK21S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020K1 Init. Calib. Time(s): 15:49 19:02

GC Column: DB5MS ID: 0.32 (mm)

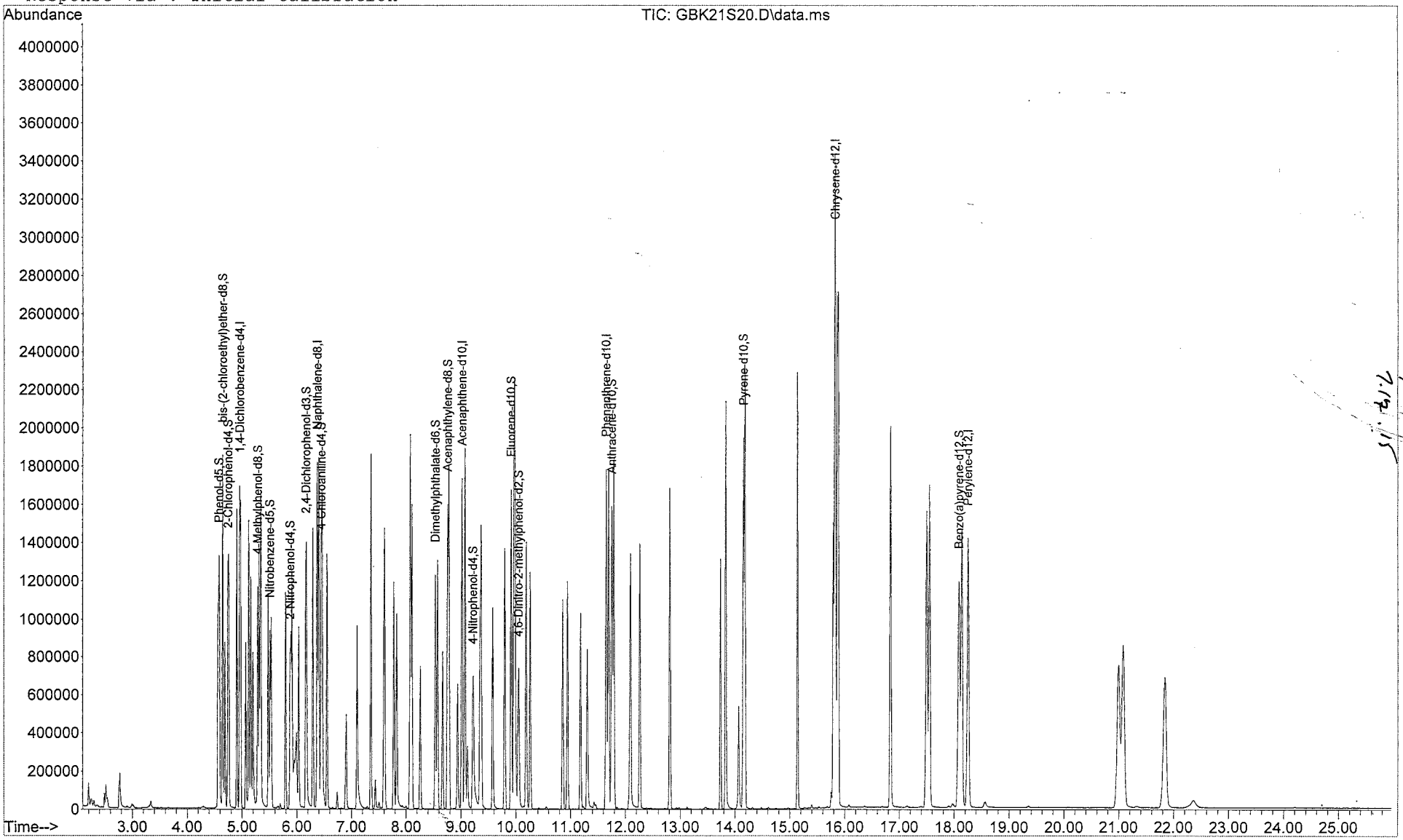
COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	1.395	1.358	0.010	-2.6	50.0
Bis(2-chloroethyl)ether-d8	0.854	0.814	0.010	-4.7	50.0
2-Chlorophenol-d4	1.369	1.372	0.010	0.2	50.0
4-Methylphenol-d8	1.086	1.064	0.010	-2.0	50.0
Nitrobenzene-d5	0.168	0.169	0.010	0.6	50.0
2-Nitrophenol-d4	0.187	0.190	0.010	1.8	50.0
2,4-Dichlorophenol-d3	0.274	0.282	0.010	3.0	50.0
4-Chloroaniline-d4	0.297	0.325	0.010	9.3	50.0
Dimethylphthalate-d6	1.216	1.257	0.010	3.4	50.0
Acenaphthylene-d8	1.623	1.656	0.010	2.0	50.0
4-Nitrophenol-d4	0.259	0.263	0.010	1.7	50.0
Fluorene-d10	1.056	1.093	0.010	3.5	50.0
4,6-Dinitro-2-methylphenol-d2	0.131	0.115	0.010	-12.6	50.0
Anthracene-d10	1.012	1.043	0.010	3.1	50.0
Pyrene-d10	0.909	0.902	0.010	-0.8	50.0
Benzo(a)pyrene-d12	0.907	0.920	0.010	1.4	50.0

Quantitation Report

Data File : R:\G\2015\JUN15\12JUN15\12JUN15\GBK21S20.D Vial: 1
Acq On : 06/13/2015 02:54 Operator: DJC
Sample : SSTD020K1 28296 DFTPPK1 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 13 03:20:52 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\12JUN15\12JUN15\GBK21S20.D Vial: 1
Acq On : 06/13/2015 02:54 Operator: DJC
Sample : SSTD020K1 28296 DFTPPK1 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 13 03:20:52 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	291811	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1085171	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	626489	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1048650	20.00 ug/ml
73) Chrysene-d12	15.83	240	1058348	20.00 ug/ml
81) Perylene-d12	18.26	264	1050044	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	396361	19.478ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	237510	19.062ug/mL
7) 2-Chlorophenol-d4	4.75	132	400252	20.033ug/ml
13) 4-Methylphenol-d8	5.29	113	310509	19.599ug/mL
17) Nitrobenzene-d5	5.51	128	183106	20.111ug/ml
21) 2-Nitrophenol-d4	5.87	143	206599	20.362ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	306225	20.602ug/mL
28) 4-Chloroaniline-d4	6.44	131	352399	21.856ug/mL
42) Dimethylphthalate-d6	8.53	166	787805	20.677ug/mL
45) Acenaphthylene-d8	8.76	160	1037317	20.400ug/mL
50) 4-Nitrophenol-d4	9.22	143	165019	20.339ug/mL
57) Fluorene-d10	9.92	176	684745	20.691ug/mL
61) 4,6-Dinitro-2-methylphenol	10.05	200	120408	17.480ug/mL
69) Anthracene-d10	11.75	188	1094187	20.627ug/mL
75) Pyrene-d10	14.16	212	954313	19.834ug/mL
86) Benzo(a)pyrene-d12	18.09	264	966144	20.284ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.56	77	210030	17.200ug/ml 95
4) Phenol	4.59	94	407877	19.814ug/ml 97
5) Bis(2-chloroethyl)ether	4.69	93	314713	18.332ug/ml 90
8) 2-Chlorophenol	4.76	128	385750	20.320ug/ml 92
9) 2-Methylphenol	5.16	108	306415	19.231ug/ml 99
10) 2,2'-Oxybis-(1-chloropropa	5.20	45	326286	16.824ug/ml 100
11) Acetophenone	5.35	105	463646	20.289ug/ml 97
12) 4-methylphenol	5.31	108	337470	20.189ug/ml 96
14) N-Nitroso-di-n-propylamine	5.33	70	187641	18.716ug/ml 95
15) Hexachloroethane	5.47	117	172398	19.874ug/ml 96
18) Nitrobenzene	5.53	77	330586	19.722ug/ml 96
19) Isophorone	5.79	82	587920	20.244ug/ml 98
20) 2-Nitrophenol	5.89	139	215314	20.098ug/ml 98
22) 2,4-Dimethylphenol	5.91	107	349978	20.998ug/ml 90
23) Bis(2-chloroethoxy)methane	6.03	93	369802	19.238ug/ml 99
24) 2,4-Dichlorophenol	6.17	162	307646	20.818ug/ml 97
26) Naphthalene	6.40	128	1098665	20.058ug/ml 99
27) 4-Chloroaniline	6.45	127	404438	22.336ug/ml 95
29) Hexachlorobutadiene	6.55	225	198089	21.095ug/ml 99
30) Caprolactam	6.90	113	112377	21.198ug/ml 67
31) 4-Chloro-3-methylphenol	7.10	107	307184	21.247ug/ml 95
32) 2-Methylnaphthalene	7.36	142	723180	20.680ug/ml 96
34) 1,2,4,5-Tetrachlorobenzene	7.60	216	313681	20.240ug/mL 99
35) Hexachlorocyclopentadiene	7.59	237	131349	11.909ug/ml 99
36) 2,4,6-Trichlorophenol	7.77	196	227571	20.675ug/ml 98
37) 2,4,5-Trichlorophenol	7.83	196	237968	20.127ug/ml 99
38) 1,1'-Biphenyl	8.07	154	874402	20.035ug/ml 96
39) 2-Chloronaphthalene	8.10	162	682977	20.176ug/ml 98
40) 2-Nitroaniline	8.26	65	173556	19.531ug/ml 82
41) Dimethylphthalate	8.57	163	785172	20.096ug/ml 99
43) 2,6-Dinitrotoluene	8.67	165	188319	20.905ug/ml 88

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

: 00749

Quantitation Report

Data File : R:\G\2015\JUN15\12JUN15\12JUN15\GBK21S20.D Vial: 1
Acq On : 06/13/2015 02:54 Operator: DJC
Sample : SSTD020K1 28296 DFTPPK1 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 13 03:20:52 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	1140487	19.917ug/ml	99
46)	3-Nitroaniline	8.94	138	181195	28.078ug/ml	93
47)	Acenaphthene	9.07	153	707326	20.056ug/ml	93
48)	2,4-Dinitrophenol	9.12	184	87659	15.867ug/ml	100
49)	4-Nitrophenol	9.23	109	97465	20.301ug/ml	91
51)	Dibenzofuran	9.37	168	942687	20.361ug/ml	98
52)	2,4-Dinitrotoluene	9.35	165	254791	20.944ug/ml	98
53)	2,3,4,6-Tetrachlorophenol	9.58	232	191228	21.485ug/mL	97
54)	Diethylphthalate	9.80	149	820388	20.306ug/ml	97
55)	4-Chlorophenyl-phenylether	9.99	204	367282	20.148ug/ml	97
56)	Fluorene	9.97	166	785514	20.451ug/ml	97
58)	4-Nitroaniline	10.00	138	189895	25.454ug/ml	76
60)	4,6-Dinitro-2-methylphenol	10.06	198	134811	17.292ug/ml	91
62)	N-Nitrosodiphenylamine	10.19	169	560533	20.438ug/ml	100
63)	4-Bromophenyl-phenyl ether	10.86	248	210701	19.761ug/ml	99
64)	Hexachlorobenzene	10.94	284	242521	20.684ug/ml	87
65)	Atrazine	11.19	200	215088	21.447ug/ml	97
66)	Pentachlorophenol	11.30	266	158753	21.415ug/ml	99
67)	Phenanthrene	11.70	178	1153298	20.110ug/ml	100
68)	Anthracene	11.79	178	1178411	20.136ug/ml	99
70)	Carbazole	12.09	167	968807	27.370ug/mL	99
71)	Di-n-butylphthalate	12.81	149	1486674	20.547ug/ml	99
72)	Fluoranthene	13.83	202	1231930	20.832ug/ml	95
74)	Pyrene	14.18	202	1287308	19.643ug/ml	95
76)	Butylbenzylphthalate	15.14	149	695100	20.029ug/ml	89
77)	3,3'-Dichlorobenzidine	15.79	252	411520	24.076ug/ml	98
78)	Benzo(a)anthracene	15.82	228	1193563	19.845ug/ml	99
79)	Chrysene	15.87	228	1091087	19.984ug/ml	99
80)	Bis-(2-ethylhexyl)phthalat	15.89	149	1026021	20.087ug/ml	98
82)	Di-n-octylphthalate	16.84	149	1807218	20.393ug/ml	100
83)	Benzo(b)fluoranthene	17.50	252	1213176	19.876ug/ml	98
84)	Benzo(k)fluoranthene	17.55	252	1197452	20.232ug/ml	97
85)	Benzo(a)pyrene	18.14	252	1173231	19.927ug/ml	97
87)	Indeno(1,2,3-c,d)pyrene	21.00	276	1044650	18.100ug/ml	91
88)	Dibenzo(a,h)anthracene	21.08	278	1103320	18.633ug/ml	96
89)	Benzo(g,h,i)perylene	21.84	276	998226	17.078ug/ml	95

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

00750

7E - FORM VII SV-1
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

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

Instrument ID: 5975-G Calibration Date: 07/10/2015 Time: 09:42

Lab File ID: GCP01S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020GP 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	0.968	0.010	-18.2	40.0
Phenol	1.871	1.659	0.800	-11.3	25.0
Bis(2-chloroethyl)ether	1.549	1.417	0.700	-8.5	25.0
2-Chlorophenol	1.382	1.289	0.800	-6.7	25.0
2-Methylphenol	1.274	1.323	0.700	3.9	25.0
2,2'-Oxybis(1-chloropropane)	3.802	3.611	0.010	-5.0	40.0
Acetophenone	1.916	1.831	0.010	-4.4	40.0
4-Methylphenol	1.399	1.296	0.600	-7.4	25.0
N-Nitroso-di-n-propylamine	1.047	0.947	0.500	-9.5	25.0
Hexachloroethane	0.701	0.690	0.300	-1.6	25.0
Nitrobenzene	0.462	0.429	0.200	-7.2	25.0
Isophorone	0.795	0.732	0.400	-8.0	25.0
2-Nitrophenol	0.207	0.190	0.100	-8.0	25.0
2,4-Dimethylphenol	0.392	0.370	0.200	-5.8	25.0
Bis(2-chloroethoxy)methane	0.482	0.452	0.300	-6.1	25.0
2,4-Dichlorophenol	0.309	0.305	0.200	-1.2	25.0
Naphthalene	1.011	1.008	0.700	-0.3	25.0
4-Chloroaniline	0.351	0.292	0.010	-16.9	40.0
Hexachlorobutadiene	0.212	0.215	0.010	1.7	40.0
Caprolactam	0.113	0.106	0.010	-5.8	40.0
4-Chloro-3-methylphenol	0.341	0.314	0.200	-8.1	25.0
2-Methylnaphthalene	0.640	0.642	0.400	0.4	25.0
Hexachlorocyclopentadiene	0.412	0.355	0.010	-13.8	40.0
2,4,6-Trichlorophenol	0.418	0.374	0.200	-10.6	25.0
2,4,5-Trichlorophenol	0.410	0.396	0.200	-3.4	25.0
1,1'-Biphenyl	1.362	1.291	0.010	-5.2	40.0
2-Chloronaphthalene	1.168	1.077	0.800	-7.8	25.0
2-Nitroaniline	0.478	0.448	0.010	-6.3	40.0
Dimethylphthalate	1.309	1.229	0.010	-6.2	40.0
2,6-Dinitrotoluene	0.297	0.276	0.200	-7.3	25.0
Acenaphthylene	1.810	1.757	0.900	-2.9	25.0
3-Nitroaniline	0.217	0.251	0.010	15.6	40.0
Acenaphthene	1.097	1.057	0.900	-3.7	25.0

7F - FORM VII SV-2
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

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

Instrument ID: 5975-G Calibration Date: 07/10/2015 Time: 09:42

Lab File ID: GCP01S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020GP 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	0.169	0.010	-15.3	40.0
4-Nitrophenol	0.198	0.190	0.010	-3.9	40.0
Dibenzofuran	1.444	1.378	0.800	-4.6	25.0
2,4-Dinitrotoluene	0.395	0.371	0.200	-6.0	25.0
Diethylphthalate	1.358	1.299	0.010	-4.3	40.0
Fluorene	1.203	1.200	0.900	-0.3	25.0
4-Chlorophenyl-phenylether	0.607	0.586	0.400	-3.4	25.0
4-Nitroaniline	0.256	0.264	0.010	3.0	40.0
4,6-Dinitro-2-methylphenol	0.165	0.154	0.010	-6.7	40.0
N-Nitrosodiphenylamine (1)	0.565	0.554	0.010	-2.1	40.0
1,2,4,5-Tetrachlorobenzene	0.557	0.496	0.010	-10.9	40.0
4-Bromophenyl-phenylether	0.214	0.200	0.100	-6.4	25.0
Hexachlorobenzene	0.227	0.216	0.100	-5.0	25.0
Atrazine	0.205	0.216	0.010	5.1	40.0
Pentachlorophenol	0.141	0.095	0.050	-32.4	25.0
Phenanthrene	1.067	1.076	0.700	0.9	25.0
Anthracene	1.089	1.090	0.700	0.1	25.0
Carbazole	0.746	0.961	0.010	28.8	40.0
Di-n-butylphthalate	1.476	1.584	0.010	7.3	40.0
Fluoranthene	1.175	1.201	0.600	2.1	25.0
Pyrene	1.273	1.226	0.600	-3.7	25.0
Butylbenzylphthalate	0.679	0.659	0.010	-2.9	40.0
3,3'-Dichlorobenzidine	0.297	0.367	0.010	23.6	40.0
Benzo(a)anthracene	1.213	1.201	0.800	-1.0	25.0
Chrysene	1.096	1.052	0.700	-4.0	25.0
Bis(2-ethylhexyl)phthalate	0.989	0.976	0.010	-1.3	40.0
Di-n-octylphthalate	1.988	1.977	0.010	-0.5	40.0
Benzo(b)fluoranthene	1.253	1.236	0.700	-1.4	25.0
Benzo(k)fluoranthene	1.183	1.189	0.700	0.5	25.0
Benzo(a)pyrene	1.179	1.157	0.700	-1.8	25.0
Indeno(1,2,3-cd)pyrene	1.042	1.055	0.500	1.3	25.0
Dibenzo(a,h)anthracene	1.043	1.030	0.400	-1.3	25.0
Benzo(g,h,i)perylene	1.026	1.021	0.500	-0.5	25.0
2,3,4,6-Tetrachlorophenol	0.332	0.281	0.100	-15.6	25.0

(1) Cannot be separated from Diphenylamine

7G - FORM VII SV-3
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

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

Instrument ID: 5975-G Calibration Date: 07/10/2015 Time: 09:42

Lab File ID: GCP01S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020GP Init. Calib. Time(s): 11:10 13:22

GC Column: DB5MS ID: 0.32 (mm)

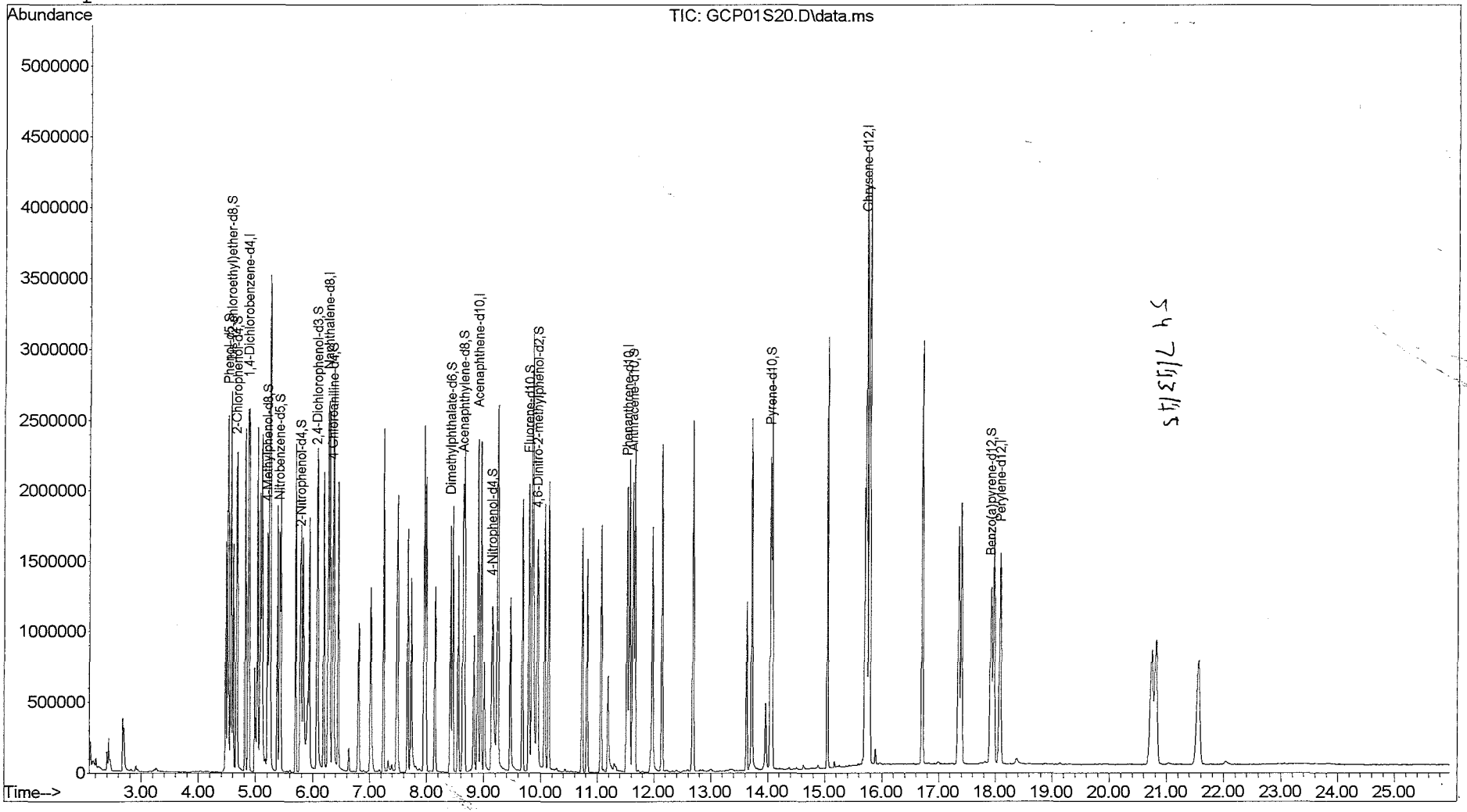
COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	1.740	1.630	0.010	-6.3	25.0
Bis(2-chloroethyl)ether-d8	1.356	1.235	0.010	-9.0	25.0
2-Chlorophenol-d4	1.470	1.405	0.010	-4.4	25.0
4-Methylphenol-d8	1.164	1.134	0.010	-2.6	25.0
Nitrobenzene-d5	0.176	0.169	0.010	-3.8	25.0
2-Nitrophenol-d4	0.186	0.179	0.010	-3.6	25.0
2,4-Dichlorophenol-d3	0.289	0.294	0.010	1.8	25.0
4-Chloroaniline-d4	0.316	0.248	0.010	-21.4	40.0
Dimethylphthalate-d6	1.254	1.200	0.010	-4.3	40.0
Acenaphthylene-d8	1.704	1.614	0.010	-5.3	25.0
4-Nitrophenol-d4	0.256	0.231	0.010	-9.9	40.0
Fluorene-d10	1.071	1.030	0.010	-3.8	25.0
4,6-Dinitro-2-methylphenol-d2	0.142	0.136	0.010	-4.3	40.0
Anthracene-d10	1.061	1.043	0.010	-1.6	25.0
Pyrene-d10	0.998	0.952	0.010	-4.6	25.0
Benzo(a)pyrene-d12	0.958	0.933	0.010	-2.6	25.0

Quantitation Report

Data File : C:\msdchem\1\data\20...15\10JUL15\GCP01S20.D Vial: 1
Acq On : 07/10/2015 09:42 Operator: TJM
Sample : SSTD020GP 28634 DFTPPGP Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 10 10:08:08 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jul 13 09:08:56 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\20...15\10JUL15\GCP01S20.D Vial: 1
Acq On : 07/10/2015 09:42 Operator: TJM
Sample : SSTD020GP 28634 DFTPPGP Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jul 10 10:08:08 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jul 13 09:08:56 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.87	152	341485	20.00 ug/ml
16) Naphthalene-d8	6.27	136	1254526	20.00 ug/ml
33) Acenaphthene-d10	8.90	164	740719	20.00 ug/ml
59) Phenanthrene-d10	11.53	188	1179846	20.00 ug/ml
73) Chrysene-d12	15.73	240	1223555	20.00 ug/ml
81) Perylene-d12	18.09	264	1048038	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.51	99	556707	18.734ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	421700	18.209ug/mL
7) 2-Chlorophenol-d4	4.66	132	479648	19.117ug/ml
13) 4-Methylphenol-d8	5.20	113	387210	19.481ug/mL
17) Nitrobenzene-d5	5.42	128	212130	19.248ug/ml
21) 2-Nitrophenol-d4	5.78	143	224687	19.288ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	369418	20.366ug/mL
28) 4-Chloroaniline-d4	6.35	131	311302	15.723ug/mL
42) Dimethylphthalate-d6	8.42	166	888942	19.138ug/mL
45) Acenaphthylene-d8	8.64	160	1195407	18.938ug/mL
50) 4-Nitrophenol-d4	9.14	143	170829	18.028ug/mL
57) Fluorene-d10	9.79	176	762918	19.233ug/mL
61) 4,6-Dinitro-2-methylphenol	9.94	200	160248	19.136ug/mL
69) Anthracene-d10	11.63	188	1230932	19.674ug/mL
75) Pyrene-d10	14.04	212	1164755	19.075ug/mL
86) Benzo(a)pyrene-d12	17.92	264	978082	19.476ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.47	77	330514	16.357ug/ml 87
4) Phenol	4.52	94	566560	17.739ug/ml 72
5) Bis(2-chloroethyl)ether	4.60	93	483854	18.291ug/ml 89
8) 2-Chlorophenol	4.67	128	440168	18.651ug/ml 82
9) 2-Methylphenol	5.08	108	451855	20.780ug/ml 100
10) 2,2'-Oxybis-(1-chloropropa	5.11	45	1233010	18.996ug/ml 100
11) Acetophenone	5.26	105	625311	19.119ug/ml 40
12) 4-methylphenol	5.23	108	442479	18.526ug/ml 100
14) N-Nitroso-di-n-propylamine	5.25	70	323283	18.093ug/ml 61
15) Hexachloroethane	5.38	117	235617	19.678ug/ml 99
18) Nitrobenzene	5.44	77	537586	18.562ug/ml 86
19) Isophorone	5.70	82	917807	18.402ug/ml 86
20) 2-Nitrophenol	5.80	139	238468	18.409ug/ml 71
22) 2,4-Dimethylphenol	5.82	107	463570	18.844ug/ml 81
23) Bis(2-chloroethoxy)methane	5.94	93	567592	18.786ug/ml 100
24) 2,4-Dichlorophenol	6.09	162	383058	19.770ug/ml 97
26) Naphthalene	6.30	128	1264769	19.942ug/ml 99

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

09755

Quantitation Report

Data File : C:\msdchem\1\data\20...15\10JUL15\GCP01S20.D Vial: 1
Acq On : 07/10/2015 09:42 Operator: TJM
Sample : SSTD020GP 28634 DFTPPGP Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jul 10 10:08:08 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jul 13 09:08:56 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.36	127	365701	16.616ug/ml	87
29)	Hexachlorobutadiene	6.45	225	269994	20.342ug/ml	98
30)	Caprolactam	6.81	113	133202	18.848ug/ml	31
31)	4-Chloro-3-methylphenol	7.02	107	393572	18.386ug/ml	91
32)	2-Methylnaphthalene	7.25	142	806022	20.083ug/ml	98
34)	1,2,4,5-Tetrachlorobenzene	7.49	216	367562	17.817ug/mL	98
35)	Hexachlorocyclopentadiene	7.47	237	262954	17.248ug/ml	98
36)	2,4,6-Trichlorophenol	7.67	196	276977	17.872ug/ml	99
37)	2,4,5-Trichlorophenol	7.73	196	293347	19.323ug/ml	98
38)	1,1'-Biphenyl	7.96	154	956308	18.956ug/ml	98
39)	2-Chloronaphthalene	7.99	162	797512	18.439ug/ml	97
40)	2-Nitroaniline	8.15	65	331887	18.748ug/ml	74
41)	Dimethylphthalate	8.46	163	910170	18.769ug/ml	98
43)	2,6-Dinitrotoluene	8.55	165	204110	18.538ug/ml	85
44)	Acenaphthylene	8.66	152	1301390	19.415ug/ml	99
46)	3-Nitroaniline	8.83	138	186007	23.129ug/ml	87
47)	Acenaphthene	8.95	153	782782	19.269ug/ml	94
48)	2,4-Dinitrophenol	9.02	184	125447	16.941ug/ml	100
49)	4-Nitrophenol	9.15	109	141093	19.230ug/ml	78
51)	Dibenzofuran	9.25	168	1020787	19.083ug/ml	94
52)	2,4-Dinitrotoluene	9.24	165	274837	18.797ug/ml	27
53)	2,3,4,6-Tetrachlorophenol	9.47	232	207823	16.887ug/mL	95
54)	Diethylphthalate	9.68	149	962260	19.131ug/ml	96
55)	4-Chlorophenyl-phenylether	9.86	204	434376	19.322ug/ml	100
56)	Fluorene	9.85	166	888964	19.949ug/ml	98
58)	4-Nitroaniline	9.88	138	195609	20.593ug/ml	84
60)	4,6-Dinitro-2-methylphenol	9.95	198	181897	18.665ug/ml	84
62)	N-Nitrosodiphenylamine	10.07	169	653154	19.580ug/ml	94
63)	4-Bromophenyl-phenyl ether	10.73	248	236184	18.726ug/ml	97
64)	Hexachlorobenzene	10.82	284	254551	18.998ug/ml	94
65)	Atrazine	11.07	200	254520	21.024ug/ml	98
66)	Pentachlorophenol	11.19	266	112349	13.530ug/ml	97
67)	Phenanthrene	11.57	178	1269947	20.181ug/ml	99
68)	Anthracene	11.66	178	1285496	20.017ug/ml	99
70)	Carbazole	11.97	167	1133338	25.762ug/mL	99
71)	Di-n-butylphthalate	12.69	149	1868546	21.458ug/ml	99
72)	Fluoranthene	13.72	202	1416622	20.429ug/ml	95
74)	Pyrene	14.07	202	1499724	19.256ug/ml	95
76)	Butylbenzylphthalate	15.05	149	806852	19.419ug/ml	90
77)	3,3'-Dichlorobenzidine	15.70	252	448793	24.713ug/ml	98
78)	Benzo(a)anthracene	15.72	228	1469124	19.792ug/ml	98
79)	Chrysene	15.77	228	1286713	19.196ug/ml	98
80)	Bis-(2-ethylhexyl)phthalat	15.79	149	1193966	19.732ug/ml	96

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

Quantitation Report

Data File : C:\msdchem\1\data\20...15\10JUL15\GCP01S20.D Vial: 1
Acq On : 07/10/2015 09:42 Operator: TJM
Sample : SSTD020GP 28634 DFTPPGP Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jul 10 10:08:08 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jul 13 09:08:56 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.71	149	2072119	19.894ug/ml	96
83) Benzo(b)fluoranthene	17.35	252	1294973	19.727ug/ml	95
84) Benzo(k)fluoranthene	17.40	252	1245934	20.096ug/ml	95
85) Benzo(a)pyrene	17.97	252	1212629	19.631ug/ml	95
87) Indeno(1,2,3-c,d)pyrene	20.74	276	1106182	20.253ug/ml	87
88) Dibenzo(a,h)anthracene	20.82	278	1079314	19.747ug/ml	95
89) Benzo(g,h,i)perylene	21.56	276	1070443	19.906ug/ml	92

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

: 00757

7E - FORM VII SV-1
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

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

Instrument ID: 5975-G Calibration Date: 07/10/2015 Time: 13:21

Lab File ID: GCP08S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020G1 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	0.999	0.010	-15.6	40.0
Phenol	1.871	1.737	0.800	-7.1	25.0
Bis(2-chloroethyl)ether	1.549	1.524	0.700	-1.6	25.0
2-Chlorophenol	1.382	1.326	0.800	-4.1	25.0
2-Methylphenol	1.274	1.327	0.700	4.2	25.0
2,2'-Oxybis(1-chloropropane)	3.802	3.717	0.010	-2.2	40.0
Acetophenone	1.916	1.827	0.010	-4.6	40.0
4-Methylphenol	1.399	1.296	0.600	-7.4	25.0
N-Nitroso-di-n-propylamine	1.047	1.003	0.500	-4.2	25.0
Hexachloroethane	0.701	0.698	0.300	-0.4	25.0
Nitrobenzene	0.462	0.434	0.200	-6.1	25.0
Isophorone	0.795	0.731	0.400	-8.0	25.0
2-Nitrophenol	0.207	0.190	0.100	-8.2	25.0
2,4-Dimethylphenol	0.392	0.367	0.200	-6.3	25.0
Bis(2-chloroethoxy)methane	0.482	0.450	0.300	-6.7	25.0
2,4-Dichlorophenol	0.309	0.299	0.200	-3.3	25.0
Naphthalene	1.011	0.997	0.700	-1.4	25.0
4-Chloroaniline	0.351	0.276	0.010	-21.4	40.0
Hexachlorobutadiene	0.212	0.204	0.010	-3.5	40.0
Caprolactam	0.113	0.103	0.010	-8.1	40.0
4-Chloro-3-methylphenol	0.341	0.314	0.200	-8.0	25.0
2-Methylnaphthalene	0.640	0.623	0.400	-2.7	25.0
Hexachlorocyclopentadiene	0.412	0.394	0.010	-4.2	40.0
2,4,6-Trichlorophenol	0.418	0.384	0.200	-8.1	25.0
2,4,5-Trichlorophenol	0.410	0.412	0.200	0.5	25.0
1,1'-Biphenyl	1.362	1.334	0.010	-2.1	40.0
2-Chloronaphthalene	1.168	1.116	0.800	-4.5	25.0
2-Nitroaniline	0.478	0.474	0.010	-0.9	40.0
Dimethylphthalate	1.309	1.316	0.010	0.5	40.0
2,6-Dinitrotoluene	0.297	0.280	0.200	-5.9	25.0
Acenaphthylene	1.810	1.800	0.900	-0.5	25.0
3-Nitroaniline	0.217	0.206	0.010	-5.3	40.0
Acenaphthene	1.097	1.090	0.900	-0.6	25.0

7F - FORM VII SV-2
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

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

Instrument ID: 5975-G Calibration Date: 07/10/2015 Time: 13:21

Lab File ID: GCP08S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020G1 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	0.182	0.010	-8.9	40.0
4-Nitrophenol	0.198	0.209	0.010	5.6	40.0
Dibenzofuran	1.444	1.436	0.800	-0.6	25.0
2,4-Dinitrotoluene	0.395	0.383	0.200	-3.1	25.0
Diethylphthalate	1.358	1.501	0.010	10.5	40.0
Fluorene	1.203	1.229	0.900	2.2	25.0
4-Chlorophenyl-phenylether	0.607	0.589	0.400	-3.0	25.0
4-Nitroaniline	0.256	0.222	0.010	-13.5	40.0
4,6-Dinitro-2-methylphenol	0.165	0.159	0.010	-3.7	40.0
N-Nitrosodiphenylamine (1)	0.565	0.552	0.010	-2.4	40.0
1,2,4,5-Tetrachlorobenzene	0.557	0.512	0.010	-8.1	40.0
4-Bromophenyl-phenylether	0.214	0.204	0.100	-4.6	25.0
Hexachlorobenzene	0.227	0.210	0.100	-7.3	25.0
Atrazine	0.205	0.218	0.010	6.2	40.0
Pentachlorophenol	0.141	0.104	0.050	-26.1	25.0
Phenanthrene	1.067	1.081	0.700	1.3	25.0
Anthracene	1.089	1.088	0.700	0.0	25.0
Carbazole	0.746	0.935	0.010	25.4	40.0
Di-n-butylphthalate	1.476	1.492	0.010	1.1	40.0
Fluoranthene	1.175	1.185	0.600	0.8	25.0
Pyrene	1.273	1.244	0.600	-2.3	25.0
Butylbenzylphthalate	0.679	0.664	0.010	-2.3	40.0
3,3'-Dichlorobenzidine	0.297	0.330	0.010	11.1	40.0
Benzo(a)anthracene	1.213	1.218	0.800	0.4	25.0
Chrysene	1.096	1.068	0.700	-2.5	25.0
Bis(2-ethylhexyl)phthalate	0.989	0.994	0.010	0.5	40.0
Di-n-octylphthalate	1.988	1.992	0.010	0.2	40.0
Benzo(b)fluoranthene	1.253	1.262	0.700	0.7	25.0
Benzo(k)fluoranthene	1.183	1.138	0.700	-3.8	25.0
Benzo(a)pyrene	1.179	1.163	0.700	-1.3	25.0
Indeno(1,2,3-cd)pyrene	1.042	1.081	0.500	3.7	25.0
Dibenzo(a,h)anthracene	1.043	1.050	0.400	0.7	25.0
Benzo(g,h,i)perylene	1.026	1.064	0.500	3.7	25.0
2,3,4,6-Tetrachlorophenol	0.332	0.306	0.100	-8.0	25.0

(1) Cannot be separated from Diphenylamine

7G - FORM VII SV-3
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

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

Instrument ID: 5975-G Calibration Date: 07/10/2015 Time: 13:21

Lab File ID: GCP08S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020G1 Init. Calib. Time(s): 11:10 13:22

GC Column: DB5MS ID: 0.32 (mm)

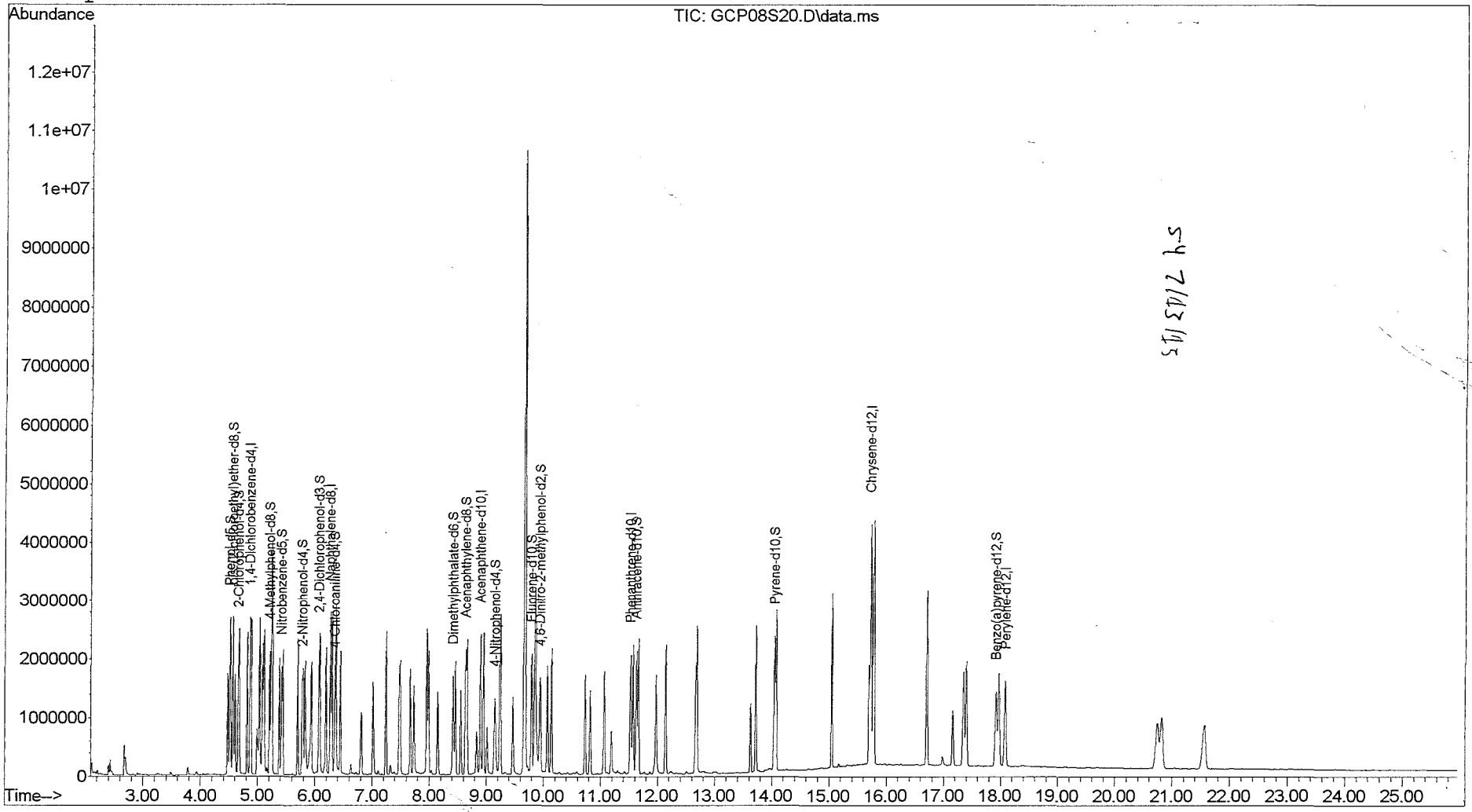
COMPOUND	$\overline{\text{RRF}}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	1.740	1.677	0.010	-3.7	25.0
Bis(2-chloroethyl)ether-d8	1.356	1.284	0.010	-5.3	25.0
2-Chlorophenol-d4	1.470	1.432	0.010	-2.6	25.0
4-Methylphenol-d8	1.164	1.167	0.010	0.2	25.0
Nitrobenzene-d5	0.176	0.167	0.010	-5.0	25.0
2-Nitrophenol-d4	0.186	0.174	0.010	-6.5	25.0
2,4-Dichlorophenol-d3	0.289	0.289	0.010	-0.1	25.0
4-Chloroaniline-d4	0.316	0.226	0.010	-28.2	40.0
Dimethylphthalate-d6	1.254	1.210	0.010	-3.6	40.0
Acenaphthylene-d8	1.704	1.696	0.010	-0.5	25.0
4-Nitrophenol-d4	0.256	0.228	0.010	-10.7	40.0
Fluorene-d10	1.071	1.058	0.010	-1.2	25.0
4,6-Dinitro-2-methylphenol-d2	0.142	0.139	0.010	-2.0	40.0
Anthracene-d10	1.061	1.058	0.010	-0.2	25.0
Pyrene-d10	0.998	0.971	0.010	-2.7	25.0
Benzo(a)pyrene-d12	0.958	0.939	0.010	-2.0	25.0

Quantitation Report

Data File : C:\msdchem\1\data\20...15\10JUL15\GCP08S20.D Vial: 1
Acq On : 07/10/2015 13:21 Operator: TJM
Sample : SSTD020G1 28634 DFTPPG1 Inst : 5975-G
Misc : . X07/19/15 NEW LINER Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 10 13:47:23 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jul 13 09:12:25 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\20...15\10JUL15\GCP08S20.D Vial: 1
Acq On : 07/10/2015 13:21 Operator: TJM
Sample : SSTD020G1 28634 DFTPPG1 Inst : 5975-G
Misc : . X07/19/15 NEW LINER Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jul 10 13:47:23 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jul 13 09:12:25 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.87	152	351129	20.00 ug/ml
16) Naphthalene-d8	6.27	136	1308949	20.00 ug/ml
33) Acenaphthene-d10	8.90	164	728122	20.00 ug/ml
59) Phenanthrene-d10	11.53	188	1171319	20.00 ug/ml
73) Chrysene-d12	15.73	240	1170798	20.00 ug/ml
81) Perylene-d12	18.09	264	1017729	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.51	99	588750	19.268ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	450976	18.939ug/mL
7) 2-Chlorophenol-d4	4.66	132	502644	19.483ug/ml
13) 4-Methylphenol-d8	5.21	113	409612	20.042ug/mL
17) Nitrobenzene-d5	5.42	128	218398	18.993ug/ml
21) 2-Nitrophenol-d4	5.78	143	227243	18.697ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	378144	19.981ug/mL
28) 4-Chloroaniline-d4	6.35	131	296470	14.351ug/mL
42) Dimethylphthalate-d6	8.42	166	880727	19.290ug/mL
45) Acenaphthylene-d8	8.64	160	1234593	19.897ug/mL
50) 4-Nitrophenol-d4	9.15	143	166308	17.855ug/mL
57) Fluorene-d10	9.79	176	770478	19.760ug/mL
61) 4,6-Dinitro-2-methylphenol	9.94	200	162916	19.596ug/mL
69) Anthracene-d10	11.63	188	1239435	19.954ug/mL
75) Pyrene-d10	14.05	212	1137156	19.462ug/mL
86) Benzo(a)pyrene-d12	17.92	264	955864	19.601ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.47	77	350899	16.889ug/ml 86
4) Phenol	4.52	94	609863	18.570ug/ml 71
5) Bis(2-chloroethyl)ether	4.60	93	535169	19.675ug/ml 91
8) 2-Chlorophenol	4.68	128	465552	19.185ug/ml 81
9) 2-Methylphenol	5.09	108	466093	20.846ug/ml 99
10) 2,2'-Oxybis-(1-chloropropa	5.11	45	1305014	19.553ug/ml 100
11) Acetophenone	5.26	105	641350	19.071ug/ml 37
12) 4-methylphenol	5.24	108	455042	18.529ug/ml 97
14) N-Nitroso-di-n-propylamine	5.25	70	352163	19.167ug/ml 63
15) Hexachloroethane	5.38	117	245133	19.911ug/ml 98
18) Nitrobenzene	5.44	77	567600	18.783ug/ml 84
19) Isophorone	5.70	82	957116	18.392ug/ml 85
20) 2-Nitrophenol	5.80	139	248270	18.369ug/ml 72
22) 2,4-Dimethylphenol	5.83	107	480997	18.739ug/ml 83
23) Bis(2-chloroethoxy)methane	5.94	93	588476	18.668ug/ml 99
24) 2,4-Dichlorophenol	6.09	162	391045	19.343ug/ml 97
26) Naphthalene	6.30	128	1305391	19.727ug/ml 99

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

00762

Quantitation Report

Data File : C:\msdchem\1\data\20...15\10JUL15\GCP08S20.D Vial: 1
Acq On : 07/10/2015 13:21 Operator: TJM
Sample : SSTD020G1 28634 DFTPPG1 Inst : 5975-G
Misc : . X07/19/15 NEW LINER Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jul 10 13:47:23 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jul 13 09:12:25 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.36	127	361209	15.730ug/ml	86
29)	Hexachlorobutadiene	6.45	225	267350	19.305ug/ml	99
30)	Caprolactam	6.82	113	135473	18.373ug/ml	28
31)	4-Chloro-3-methylphenol	7.02	107	410938	18.399ug/ml	90
32)	2-Methylnaphthalene	7.25	142	815007	19.463ug/ml	99
34)	1,2,4,5-Tetrachlorobenzene	7.49	216	372559	18.371ug/mL	98
35)	Hexachlorocyclopentadiene	7.47	237	287185	19.164ug/ml	99
36)	2,4,6-Trichlorophenol	7.67	196	279901	18.374ug/ml	99
37)	2,4,5-Trichlorophenol	7.73	196	299902	20.096ug/ml	98
38)	1,1'-Biphenyl	7.96	154	971428	19.589ug/ml	99
39)	2-Chloronaphthalene	7.99	162	812461	19.109ug/ml	97
40)	2-Nitroaniline	8.15	65	344901	19.820ug/ml	74
41)	Dimethylphthalate	8.46	163	958248	20.102ug/ml	99
43)	2,6-Dinitrotoluene	8.56	165	203744	18.825ug/ml	84
44)	Acenaphthylene	8.66	152	1310584	19.890ug/ml	99
46)	3-Nitroaniline	8.83	138	149681	18.934ug/ml	82
47)	Acenaphthene	8.95	153	793924	19.881ug/ml	93
48)	2,4-Dinitrophenol	9.02	184	132601	18.217ug/ml	100
49)	4-Nitrophenol	9.16	109	152270	21.112ug/ml	77
51)	Dibenzofuran	9.25	168	1045265	19.879ug/ml	94
52)	2,4-Dinitrotoluene	9.24	165	278579	19.382ug/ml	27
53)	2,3,4,6-Tetrachlorophenol	9.47	232	222491	18.392ug/mL	97
54)	Diethylphthalate	9.69	149	1093078	22.108ug/ml	96
55)	4-Chlorophenyl-phenylether	9.86	204	428547	19.393ug/ml	97
56)	Fluorene	9.85	166	895084	20.434ug/ml	99
58)	4-Nitroaniline	9.89	138	161596	17.307ug/ml	91
60)	4,6-Dinitro-2-methylphenol	9.95	198	186311	19.257ug/ml	83
62)	N-Nitrosodiphenylamine	10.07	169	646504	19.522ug/ml	95
63)	4-Bromophenyl-phenyl ether	10.73	248	238920	19.081ug/ml	95
64)	Hexachlorobenzene	10.82	284	246527	18.533ug/ml	95
65)	Atrazine	11.07	200	255310	21.243ug/ml	96
66)	Pentachlorophenol	11.19	266	121875	14.784ug/ml	98
67)	Phenanthrene	11.57	178	1265695	20.260ug/ml	100
68)	Anthracene	11.66	178	1274847	19.995ug/ml	99
70)	Carbazole	11.97	167	1095420	25.081ug/mL	99
71)	Di-n-butylphthalate	12.69	149	1747484	20.214ug/ml	99
72)	Fluoranthene	13.72	202	1387817	20.160ug/ml	95
74)	Pyrene	14.07	202	1456775	19.547ug/ml	95
76)	Butylbenzylphthalate	15.05	149	777016	19.544ug/ml	89
77)	3,3'-Dichlorobenzidine	15.70	252	386077	22.217ug/ml	98
78)	Benzo(a)anthracene	15.72	228	1426369	20.082ug/ml	98
79)	Chrysene	15.77	228	1250156	19.491ug/ml	98
80)	Bis-(2-ethylhexyl)phthalat	15.79	149	1164220	20.108ug/ml	96

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

Quantitation Report

Data File : C:\msdchem\1\data\20...15\10JUL15\GCP08S20.D Vial: 1
Acq On : 07/10/2015 13:21 Operator: TJM
Sample : SSTD020G1 28634 DFTPPG1 Inst : 5975-G
Misc : . X07/19/15 NEW LINER Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jul 10 13:47:23 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jul 13 09:12:25 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.71	149	2027055	20.041ug/ml	96
83) Benzo(b)fluoranthene	17.36	252	1284446	20.150ug/ml	95
84) Benzo(k)fluoranthene	17.40	252	1158096	19.235ug/ml	96
85) Benzo(a)pyrene	17.97	252	1183534	19.730ug/ml	95
87) Indeno(1,2,3-c,d)pyrene	20.74	276	1099785	20.736ug/ml	89
88) Dibenzo(a,h)anthracene	20.82	278	1068975	20.141ug/ml	95
89) Benzo(g,h,i)perylene	21.57	276	1082690	20.734ug/ml	92

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

: 09764

7E - FORM VII SV-1

SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

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

Instrument ID: 5975-G Calibration Date: 07/10/2015 Time: 23:06

Lab File ID: GCP24S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020P2 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	0.978	0.010	-17.4	50.0
Phenol	1.871	1.702	0.010	-9.0	50.0
Bis(2-chloroethyl)ether	1.549	1.428	0.010	-7.8	50.0
2-Chlorophenol	1.382	1.300	0.010	-5.9	50.0
2-Methylphenol	1.274	1.294	0.010	1.6	50.0
2,2'-Oxybis(1-chloropropane)	3.802	3.759	0.010	-1.1	50.0
Acetophenone	1.916	1.853	0.010	-3.3	50.0
4-Methylphenol	1.399	1.265	0.010	-9.6	50.0
N-Nitroso-di-n-propylamine	1.047	0.986	0.010	-5.8	50.0
Hexachloroethane	0.701	0.498	0.010	-28.9	50.0
Nitrobenzene	0.462	0.436	0.010	-5.5	50.0
Isophorone	0.795	0.766	0.010	-3.6	50.0
2-Nitrophenol	0.207	0.188	0.010	-8.8	50.0
2,4-Dimethylphenol	0.392	0.378	0.010	-3.6	50.0
Bis(2-chloroethoxy)methane	0.482	0.458	0.010	-4.9	50.0
2,4-Dichlorophenol	0.309	0.300	0.010	-3.0	50.0
Naphthalene	1.011	0.995	0.010	-1.5	50.0
4-Chloroaniline	0.351	0.353	0.010	0.5	50.0
Hexachlorobutadiene	0.212	0.215	0.010	1.6	50.0
Caprolactam	0.113	0.109	0.010	-3.3	50.0
4-Chloro-3-methylphenol	0.341	0.327	0.010	-4.2	50.0
2-Methylnaphthalene	0.640	0.637	0.010	-0.4	50.0
Hexachlorocyclopentadiene	0.412	0.066	0.010	-83.9	50.0
2,4,6-Trichlorophenol	0.418	0.406	0.010	-2.9	50.0
2,4,5-Trichlorophenol	0.410	0.412	0.010	0.5	50.0
1,1'-Biphenyl	1.362	1.332	0.010	-2.3	50.0
2-Chloronaphthalene	1.168	1.104	0.010	-5.5	50.0
2-Nitroaniline	0.478	0.474	0.010	-0.9	50.0
Dimethylphthalate	1.309	1.299	0.010	-0.8	50.0
2,6-Dinitrotoluene	0.297	0.286	0.010	-3.9	50.0
Acenaphthylene	1.810	1.819	0.010	0.5	50.0
3-Nitroaniline	0.217	0.304	0.010	39.8	50.0
Acenaphthene	1.097	1.100	0.010	0.3	50.0

7F - FORM VII SV-2
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

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

Instrument ID: 5975-G Calibration Date: 07/10/2015 Time: 23:06

Lab File ID: GCP24S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020P2 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	0.080	0.010	-60.0	50.0
4-Nitrophenol	0.198	0.212	0.010	7.0	50.0
Dibenzofuran	1.444	1.438	0.010	-0.5	50.0
2,4-Dinitrotoluene	0.395	0.387	0.010	-1.9	50.0
Diethylphthalate	1.358	1.382	0.010	1.7	50.0
Fluorene	1.203	1.252	0.010	4.1	50.0
4-Chlorophenyl-phenylether	0.607	0.617	0.010	1.6	50.0
4-Nitroaniline	0.256	0.303	0.010	18.1	50.0
4,6-Dinitro-2-methylphenol	0.165	0.084	0.010	-49.3	50.0
N-Nitrosodiphenylamine (1)	0.565	0.556	0.010	-1.7	50.0
1,2,4,5-Tetrachlorobenzene	0.557	0.515	0.010	-7.5	50.0
4-Bromophenyl-phenylether	0.214	0.198	0.010	-7.4	50.0
Hexachlorobenzene	0.227	0.210	0.010	-7.5	50.0
Atrazine	0.205	0.207	0.010	0.9	50.0
Pentachlorophenol	0.141	0.102	0.010	-27.5	50.0
Phenanthrene	1.067	1.047	0.010	-1.8	50.0
Anthracene	1.089	1.085	0.010	-0.4	50.0
Carbazole	0.746	0.933	0.010	25.1	50.0
Di-n-butylphthalate	1.476	1.466	0.010	-0.7	50.0
Fluoranthene	1.175	1.183	0.010	0.7	50.0
Pyrene	1.273	1.269	0.010	-0.3	50.0
Butylbenzylphthalate	0.679	0.684	0.010	0.8	50.0
3,3'-Dichlorobenzidine	0.297	0.371	0.010	25.0	50.0
Benzo(a)anthracene	1.213	1.190	0.010	-1.9	50.0
Chrysene	1.096	1.060	0.010	-3.3	50.0
Bis(2-ethylhexyl)phthalate	0.989	1.014	0.010	2.5	50.0
Di-n-octylphthalate	1.988	2.932	0.010	47.5	50.0
Benzo(b)fluoranthene	1.253	1.422	0.010	13.5	50.0
Benzo(k)fluoranthene	1.183	1.369	0.010	15.7	50.0
Benzo(a)pyrene	1.179	1.203	0.010	2.1	50.0
Indeno(1,2,3-cd)pyrene	1.042	0.627	0.010	-39.9	50.0
Dibenzo(a,h)anthracene	1.043	0.673	0.010	-35.5	50.0
Benzo(g,h,i)perylene	1.026	0.528	0.010	-48.5	50.0
2,3,4,6-Tetrachlorophenol	0.332	0.309	0.010	-7.0	50.0

(1) Cannot be separated from Diphenylamine

7G - FORM VII SV-3
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

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

Instrument ID: 5975-G Calibration Date: 07/10/2015 Time: 23:06

Lab File ID: GCP24S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020P2 Init. Calib. Time(s): 11:10 13:22

GC Column: DB5MS ID: 0.32 (mm)

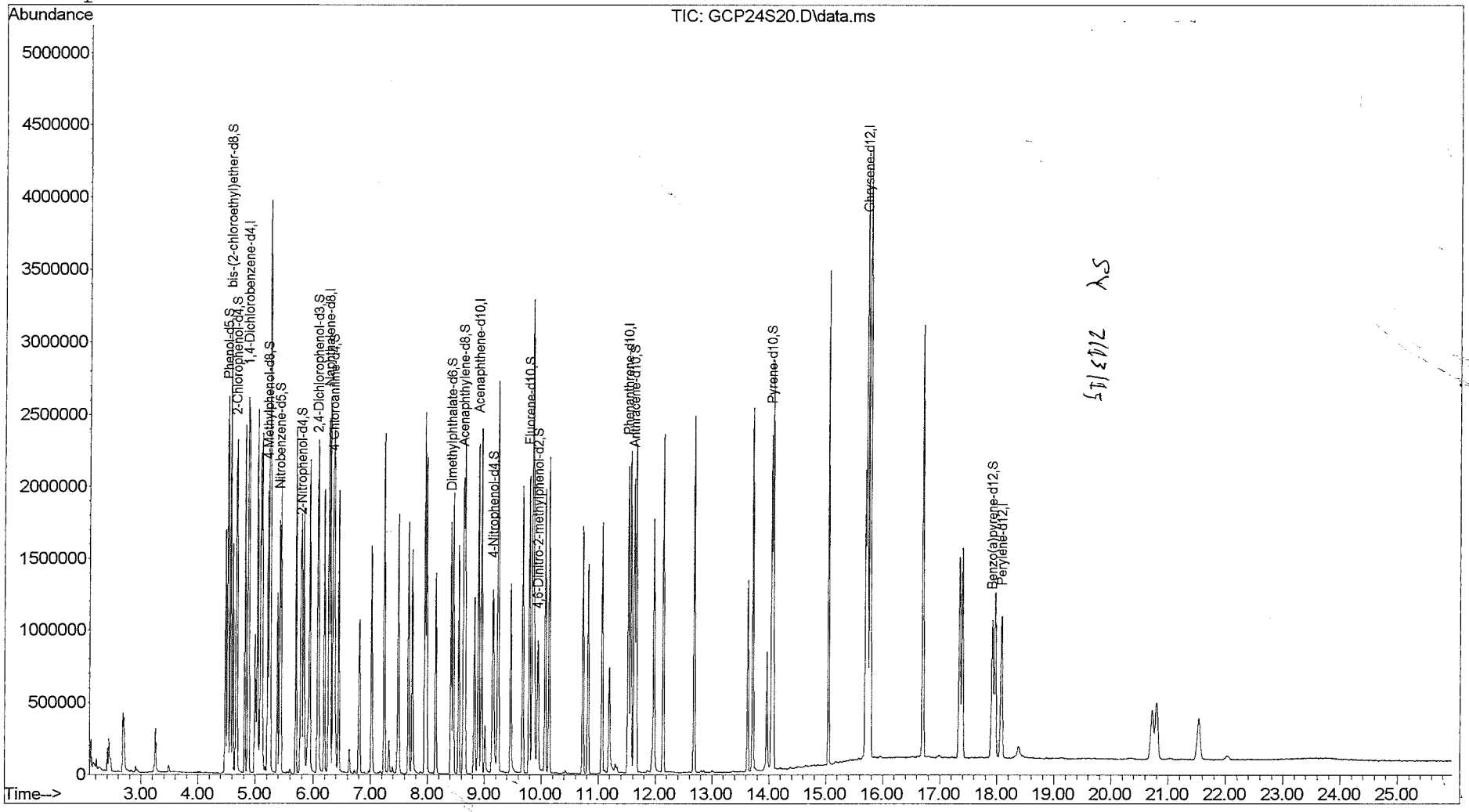
COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	1.740	1.672	0.010	-3.9	50.0
Bis(2-chloroethyl)ether-d8	1.356	1.321	0.010	-2.6	50.0
2-Chlorophenol-d4	1.470	1.422	0.010	-3.2	50.0
4-Methylphenol-d8	1.164	1.169	0.010	0.4	50.0
Nitrobenzene-d5	0.176	0.168	0.010	-4.5	50.0
2-Nitrophenol-d4	0.186	0.178	0.010	-3.9	50.0
2,4-Dichlorophenol-d3	0.289	0.291	0.010	0.6	50.0
4-Chloroaniline-d4	0.316	0.345	0.010	9.2	50.0
Dimethylphthalate-d6	1.254	1.265	0.010	0.9	50.0
Acenaphthylene-d8	1.704	1.677	0.010	-1.6	50.0
4-Nitrophenol-d4	0.256	0.235	0.010	-8.0	50.0
Fluorene-d10	1.071	1.076	0.010	0.5	50.0
4,6-Dinitro-2-methylphenol-d2	0.142	0.076	0.010	-46.6	50.0
Anthracene-d10	1.061	1.043	0.010	-1.7	50.0
Pyrene-d10	0.998	0.982	0.010	-1.6	50.0
Benzo(a)pyrene-d12	0.958	0.964	0.010	0.6	50.0

Quantitation Report

Data File : C:\msdchem\1\data\20...15\10JUL15\GCP24S20.D Vial: 1
Acq On : 07/10/2015 23:06 Operator: TJM
Sample : SSTD020P2 28634 DFTPPP2 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 10 23:32:23 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jul 13 09:18:47 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\20...15\10JUL15\GCP24S20.D Vial: 1
Acq On : 07/10/2015 23:06 Operator: TJM
Sample : SSTD020P2 28634 DFTPPP2 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jul 10 23:32:23 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jul 13 09:18:47 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.87	152	338817	20.00 ug/ml
16) Naphthalene-d8	6.27	136	1248915	20.00 ug/ml
33) Acenaphthene-d10	8.90	164	713133	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1210299	20.00 ug/ml
73) Chrysene-d12	15.73	240	1186524	20.00 ug/ml
81) Perylene-d12	18.08	264	719680	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.51	99	566470	19.212ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	447408	19.472ug/mL
7) 2-Chlorophenol-d4	4.66	132	481878	19.357ug/ml
13) 4-Methylphenol-d8	5.21	113	395993	20.080ug/mL
17) Nitrobenzene-d5	5.42	128	209461	19.091ug/ml
21) 2-Nitrophenol-d4	5.78	143	222910	19.222ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	363484	20.129ug/mL
28) 4-Chloroaniline-d4	6.34	131	430488	21.840ug/mL
42) Dimethylphthalate-d6	8.42	166	902103	20.173ug/mL
45) Acenaphthylene-d8	8.63	160	1195724	19.676ug/mL
50) 4-Nitrophenol-d4	9.15	143	167882	18.403ug/mL
57) Fluorene-d10	9.79	176	767600	20.100ug/mL
61) 4,6-Dinitro-2-methylphenol	9.93	200	91683	10.673ug/mL
69) Anthracene-d10	11.63	188	1261831	19.660ug/mL
75) Pyrene-d10	14.05	212	1165270	19.679ug/mL
86) Benzo(a)pyrene-d12	17.92	264	693530	20.111ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.48	77	331389	16.530ug/ml 85
4) Phenol	4.52	94	576641	18.197ug/ml 71
5) Bis(2-chloroethyl)ether	4.60	93	483789	18.432ug/ml 86
8) 2-Chlorophenol	4.68	128	440565	18.815ug/ml 80
9) 2-Methylphenol	5.09	108	438267	20.314ug/ml 99
10) 2,2'-Oxybis-(1-chloropropa	5.11	45	1273650	19.777ug/ml 100
11) Acetophenone	5.26	105	627683	19.343ug/ml 38
12) 4-methylphenol	5.23	108	428594	18.086ug/ml 98
14) N-Nitroso-di-n-propylamine	5.25	70	333958	18.837ug/ml 61
15) Hexachloroethane	5.38	117	168844	14.212ug/ml 97
18) Nitrobenzene	5.44	77	545035	18.903ug/ml 85
19) Isophorone	5.70	82	956862	19.271ug/ml 86
20) 2-Nitrophenol	5.79	139	235132	18.233ug/ml 72
22) 2,4-Dimethylphenol	5.83	107	472170	19.279ug/ml 81
23) Bis(2-chloroethoxy)methane	5.93	93	571823	19.011ug/ml 100
24) 2,4-Dichlorophenol	6.09	162	374287	19.404ug/ml 97
26) Naphthalene	6.29	128	1243253	19.691ug/ml 99

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

: 00769

Quantitation Report

Data File : C:\msdchem\1\data\20...15\10JUL15\GCP24S20.D Vial: 1
Acq On : 07/10/2015 23:06 Operator: TJM
Sample : SSTD020P2 28634 DFTPPP2 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jul 10 23:32:23 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jul 13 09:18:47 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.35	127	440378	20.099ug/ml	86
29)	Hexachlorobutadiene	6.45	225	268548	20.324ug/ml	99
30)	Caprolactam	6.81	113	136029	19.335ug/ml	26
31)	4-Chloro-3-methylphenol	7.02	107	408268	19.158ug/ml	90
32)	2-Methylnaphthalene	7.25	142	795957	19.922ug/ml	99
34)	1,2,4,5-Tetrachlorobenzene	7.49	216	367371	18.496ug/mL	99
35)	Hexachlorocyclopentadiene	7.47	237	47207	3.216ug/ml	98
36)	2,4,6-Trichlorophenol	7.67	196	289790	19.423ug/ml	97
37)	2,4,5-Trichlorophenol	7.73	196	293711	20.095ug/ml	99
38)	1,1'-Biphenyl	7.96	154	949540	19.550ug/ml	99
39)	2-Chloronaphthalene	7.99	162	786971	18.899ug/ml	97
40)	2-Nitroaniline	8.15	65	337697	19.814ug/ml	74
41)	Dimethylphthalate	8.46	163	926161	19.838ug/ml	98
43)	2,6-Dinitrotoluene	8.55	165	203835	19.229ug/ml	86
44)	Acenaphthylene	8.66	152	1297050	20.099ug/ml	99
46)	3-Nitroaniline	8.83	138	216516	27.964ug/ml	84
47)	Acenaphthene	8.95	153	784489	20.058ug/ml	94
48)	2,4-Dinitrophenol	9.01	184	57031	8.000ug/ml	100
49)	4-Nitrophenol	9.16	109	151176	21.401ug/ml	76
51)	Dibenzofuran	9.25	168	1025171	19.907ug/ml	93
52)	2,4-Dinitrotoluene	9.23	165	276188	19.620ug/ml	27
53)	2,3,4,6-Tetrachlorophenol	9.47	232	220329	18.596ug/mL	96
54)	Diethylphthalate	9.67	149	985195	20.344ug/ml	95
55)	4-Chlorophenyl-phenylether	9.86	204	439693	20.315ug/ml	98
56)	Fluorene	9.85	166	893117	20.817ug/ml	99
58)	4-Nitroaniline	9.88	138	216061	23.626ug/ml	98
60)	4,6-Dinitro-2-methylphenol	9.95	198	101443	10.147ug/ml	80
62)	N-Nitrosodiphenylamine	10.07	169	672628	19.657ug/ml	93
63)	4-Bromophenyl-phenyl ether	10.73	248	239489	18.510ug/ml	97
64)	Hexachlorobenzene	10.82	284	254390	18.508ug/ml	95
65)	Atrazine	11.07	200	250657	20.184ug/ml	98
66)	Pentachlorophenol	11.19	266	123490	14.497ug/ml	98
67)	Phenanthrene	11.57	178	1267659	19.638ug/ml	99
68)	Anthracene	11.66	178	1312855	19.928ug/ml	99
70)	Carbazole	11.97	167	1129386	25.026ug/mL	99
71)	Di-n-butylphthalate	12.69	149	1774724	19.868ug/ml	99
72)	Fluoranthene	13.72	202	1432084	20.133ug/ml	95
74)	Pyrene	14.07	202	1506102	19.941ug/ml	94
76)	Butylbenzylphthalate	15.04	149	812080	20.155ug/ml	89
77)	3,3'-Dichlorobenzidine	15.69	252	440356	25.005ug/ml	99
78)	Benzo(a)anthracene	15.72	228	1412152	19.618ug/ml	98
79)	Chrysene	15.76	228	1257366	19.344ug/ml	99
80)	Bis-(2-ethylhexyl)phthalat	15.78	149	1203329	20.508ug/ml	95

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

Quantitation Report

Data File : C:\msdchem\1\data\20...15\10JUL15\GCP24S20.D Vial: 1
Acq On : 07/10/2015 23:06 Operator: TJM
Sample : SSTD020P2 28634 DFTPPP2 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jul 10 23:32:23 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Mon Jul 13 09:18:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.70	149	2110250	29.505ug/ml	96
83) Benzo(b)fluoranthene	17.34	252	1023219	22.699ug/ml	96
84) Benzo(k)fluoranthene	17.40	252	985305	23.143ug/ml	96
85) Benzo(a)pyrene	17.97	252	865813	20.411ug/ml	95
87) Indeno(1,2,3-c,d)pyrene	20.72	276	451158	12.029ug/ml	87
88) Dibenzo(a,h)anthracene	20.80	278	484410	12.907ug/ml	95
89) Benzo(g,h,i)perylene	21.54	276	380337	10.300ug/ml	92

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

: 00771

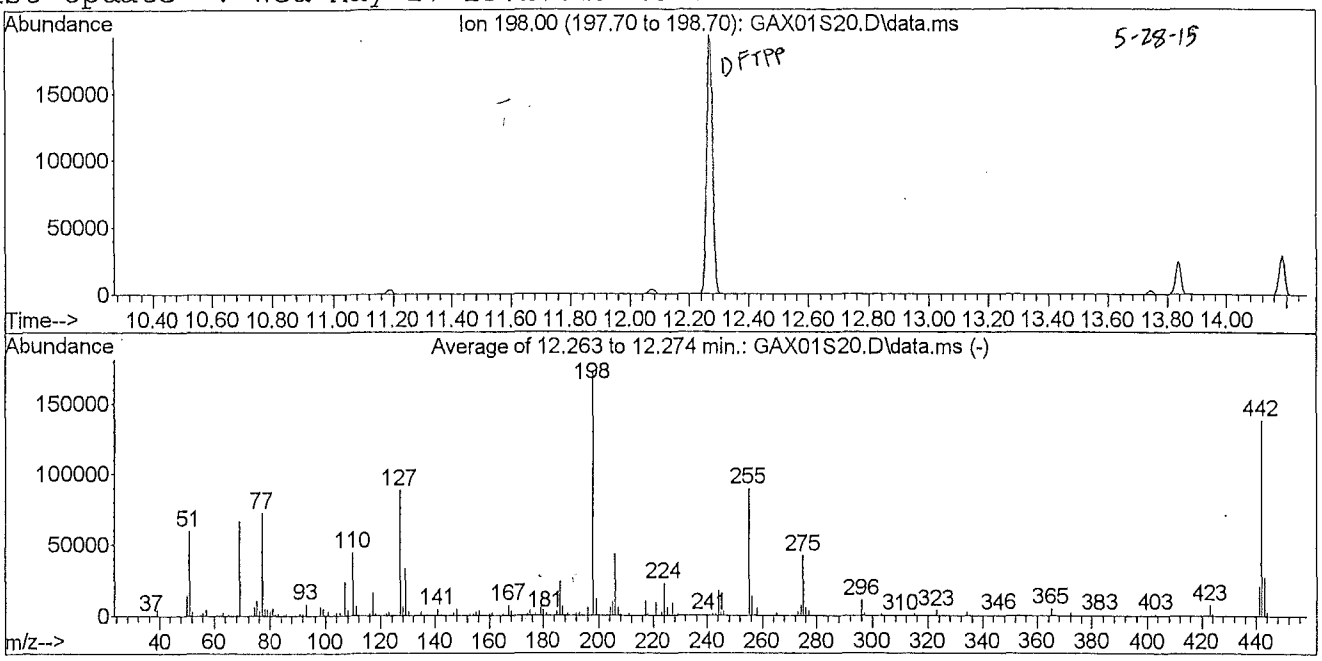
DFTPP

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

00173

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

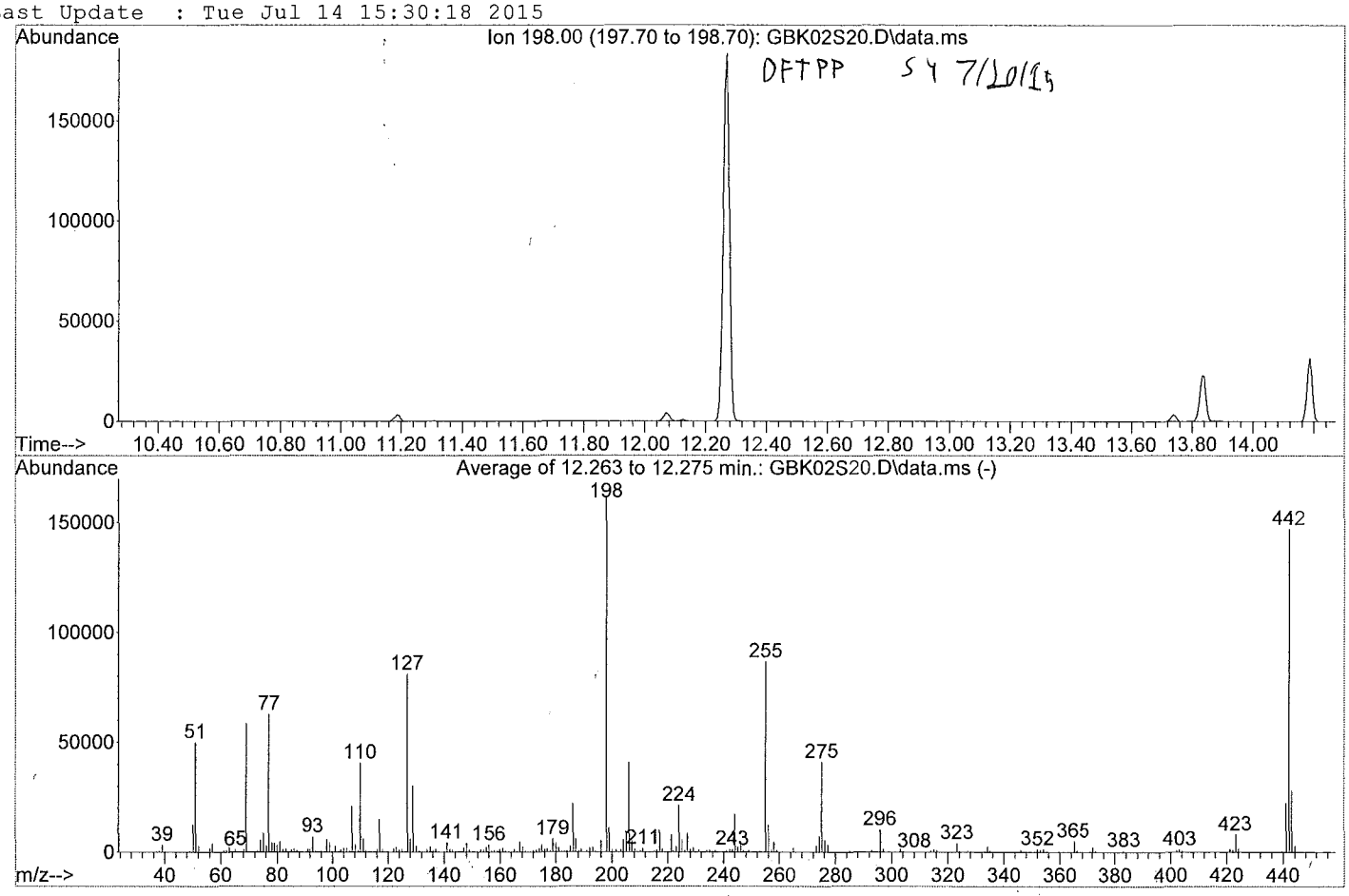
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
352.10	905	391.00	160	435.60	65		
353.05	737	392.10	57	436.50	117		
354.10	1171	401.00	58	437.20	97		
355.05	280	402.05	729	437.65	154		
365.05	4828	403.05	1106	438.40	153		
366.05	628	404.10	388	439.70	145		
371.05	343	421.05	1065	441.10	20965		
372.10	2005	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\12JUN15\
Data File : GBK02S20.D
Acq On : 06/12/2015 16:39
Operator : DJC
Sample : SSTD020GK 28296 DFTPPGK
Inst : 5975-G
Misc : . X06/19/15
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : R:\G\METHODS\GSOM01D6.M
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015



Average of scans 1730, 1731, 1732 Background subtracted with scan 1723

Spectrum Information: Average of 12.263 to 12.275 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	30.8	49717	PASS
68	69	0.00	2	1.9	1087	PASS
69	198	0.00	100	36.2	58467	PASS
70	69	0.00	2	0.4	216	PASS
127	198	10	80	50.1	80848	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	161451	PASS
199	198	5	9	6.7	10774	PASS
275	198	10	60	25.3	40811	PASS
365	198	1	100	3.0	4857	PASS
441	443	0.01	100	79.6	22245	PASS
442	198	50	100	91.0	146840	PASS
443	442	15	24	19.0	27941	PASS

0075

Average of 12.263 to 12.275 min.: GBK02S20.D\data.ms
SSTD020GK 28296 DFTPPGK
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.10	82	54.95	114	69.00	58467	81.00	4648
38.00	599	56.00	1579	69.90	216	82.05	1137
39.00	3094	57.00	3753	71.00	71	83.05	1234
40.00	390	57.95	141	73.05	558	83.80	135
41.05	211	61.00	713	74.05	5468	85.00	958
43.05	26	62.00	878	75.00	8491	86.00	1389
49.05	478	63.00	2071	76.10	2989	87.00	705
50.10	12350	64.05	318	77.10	62589	88.00	342
51.10	49717	65.05	1058	78.10	4105	88.90	139
52.10	2633	67.00	57	79.00	4049	89.10	103
52.90	52	68.10	1087	79.95	3158	91.05	1220

Average of 12.263 to 12.275 min.: GBK02S20.D\data.ms
SSTD020GK 28296 DFTPPGK
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
92.00	1087	102.05	159	113.00	257	126.20	221
93.00	6859	102.95	935	115.05	254	127.00	80848
94.00	476	103.95	1674	116.00	1295	128.00	6044
94.95	158	105.00	1594	117.00	14747	129.00	30205
96.00	376	106.10	370	118.00	1211	130.05	2625
97.00	85	107.00	20799	118.95	158	131.05	590
97.15	139	108.05	3307	119.95	291	132.05	209
98.00	5520	109.15	834	122.05	1424	132.90	56
99.00	4114	110.00	40456	123.00	2079	133.95	961
99.95	359	111.00	6022	123.95	1035	135.00	2390
101.00	2656	111.95	745	125.05	1074	135.90	394

Average of 12.263 to 12.275 min.: GBK02S20.D\data.ms
SSTD020GK 28296 DFTPPGK
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
136.05	737	147.05	1842	157.05	596	168.05	2211
137.00	1240	148.00	4070	158.00	776	169.05	607
137.90	127	149.00	824	159.00	571	169.80	58
140.05	167	150.00	283	159.95	1303	170.10	204
141.00	4139	150.95	493	161.00	1616	170.85	198
142.05	1217	151.70	208	162.00	501	171.10	122
143.00	961	152.05	183	162.90	152	172.00	692
144.00	217	153.05	1162	164.05	116	173.05	883
145.00	254	154.05	913	165.00	1153	174.05	1583
145.90	200	155.05	2025	166.05	399	175.05	3105
146.15	424	156.05	3258	167.10	4588	176.05	1062

Average of 12.263 to 12.275 min.: GBK02S20.D\data.ms
SSTD020GK 28296 DFTPPGK
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
176.90	1443	188.05	604	198.00	161451	208.90	118
178.05	562	189.00	1210	199.00	10774	209.05	276
179.00	5828	189.80	56	200.00	771	210.15	669
180.00	3938	190.05	179	200.80	62	211.05	1500
181.00	1967	191.05	603	201.45	848	211.70	170
182.00	314	192.00	1753	203.05	996	212.20	67
182.95	228	193.05	2053	204.10	5587	212.90	50
183.95	504	194.05	485	205.10	9416	215.05	464
185.05	2690	194.90	82	206.10	40483	216.05	842
186.10	21976	195.20	212	207.10	5199	217.05	9902
187.05	5943	196.05	5086	208.05	1200	218.00	1207

Average of 12.263 to 12.275 min.: GBK02S20.D\data.ms
SSTD020GK 28296 DFTPPGK
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
219.00	77	231.05	862	243.10	1077	253.05	453
221.10	7692	233.00	59	244.10	17036	255.10	86368
221.90	677	233.95	634	245.05	2303	256.10	12412
223.05	2237	235.00	665	246.05	2969	257.15	923
224.10	21096	236.00	439	247.00	675	258.05	4505
225.10	5463	237.05	690	248.00	176	259.00	739
226.10	636	238.00	61	249.00	740	260.95	113
227.05	8393	239.05	327	250.00	60	264.00	204
228.00	1294	240.05	260	251.05	220	265.00	1728
229.05	1828	241.05	597	251.80	75	266.00	326

09776

230.05	309	242.10	1067	252.20	54	271.00	186

Average of 12.263 to 12.275 min.: GBK02S20.D\data.ms
SSTD020GK 28296 DFTPPGK
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
272.15	227	286.00	64	303.10	1248	323.10	3900
273.10	2780	289.10	75	304.05	337	324.00	238
274.10	7145	290.10	54	308.10	121	324.15	465
275.10	40811	292.00	133	310.00	62	327.00	594
276.10	5420	293.05	756	313.10	63	328.05	389
277.10	3197	294.05	196	314.05	625	332.05	255
278.05	447	295.00	133	315.05	1175	333.10	434
279.00	55	296.05	10009	316.05	675	334.10	2423
282.95	363	297.00	1329	317.00	66	335.00	649
284.00	242	298.00	52	321.10	350	341.00	312
285.05	593	301.95	122	322.00	216	341.20	168

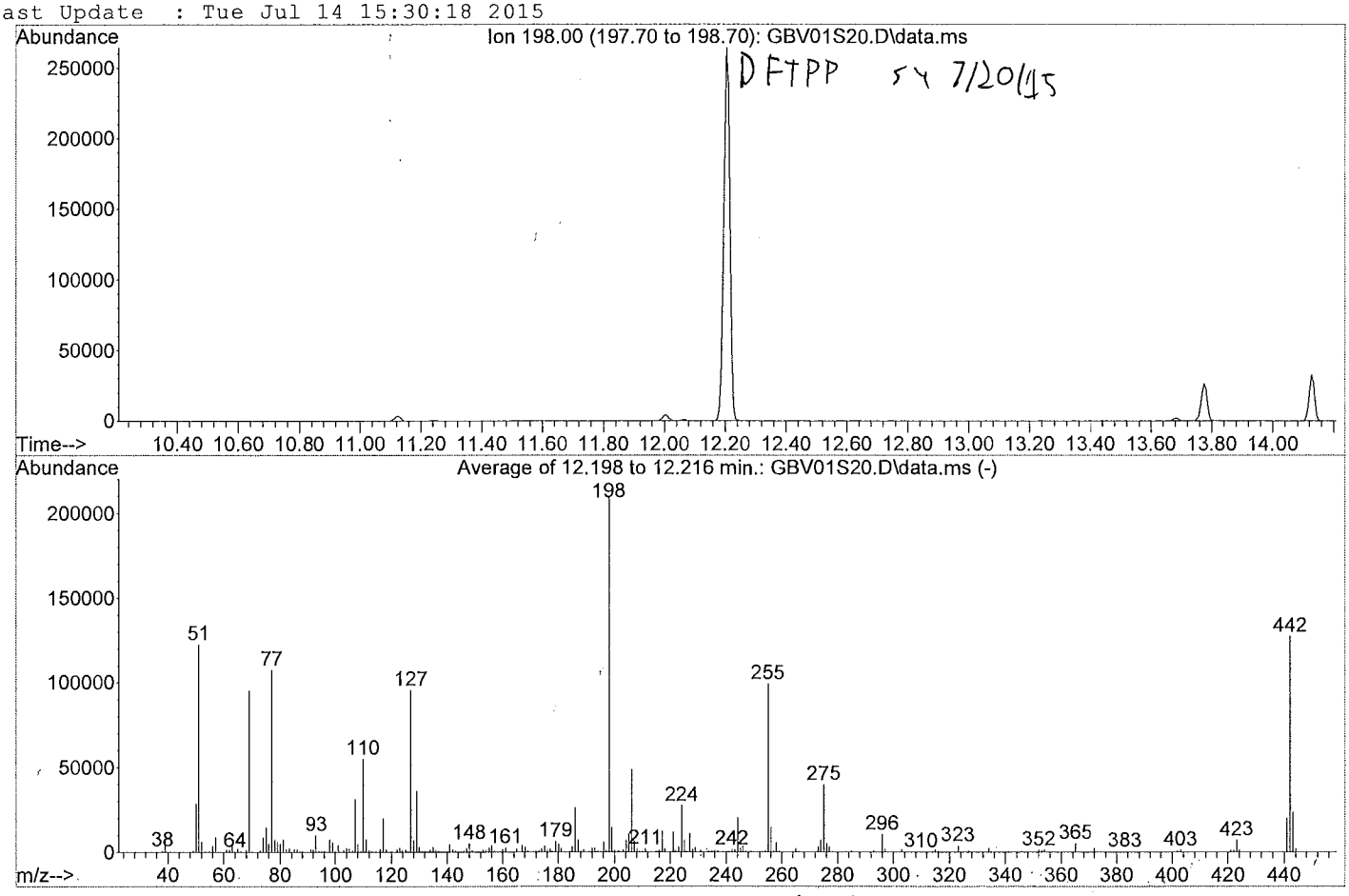
Average of 12.263 to 12.275 min.: GBK02S20.D\data.ms
SSTD020GK 28296 DFTPPGK
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
346.05	704	372.05	2145	421.05	1216	439.00	205
346.95	174	373.05	538	422.05	992	439.30	183
351.10	55	383.05	529	423.10	7881	439.60	403
352.05	1214	383.90	58	424.15	1604	441.10	22245
353.05	808	390.00	252	425.10	102	442.10	146840
354.10	1170	391.00	128	436.00	51	443.10	27941
355.05	226	392.10	61	436.50	81	444.10	2708
365.05	4857	401.10	55	437.10	88	445.00	122
366.05	702	402.05	874	437.55	141		
370.00	68	403.05	1108	437.90	96		
371.10	303	404.05	438	438.75	258		

Data Path : R:\G\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 : R:\G\METHODS\GSOM01D6.M
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 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

:0078

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

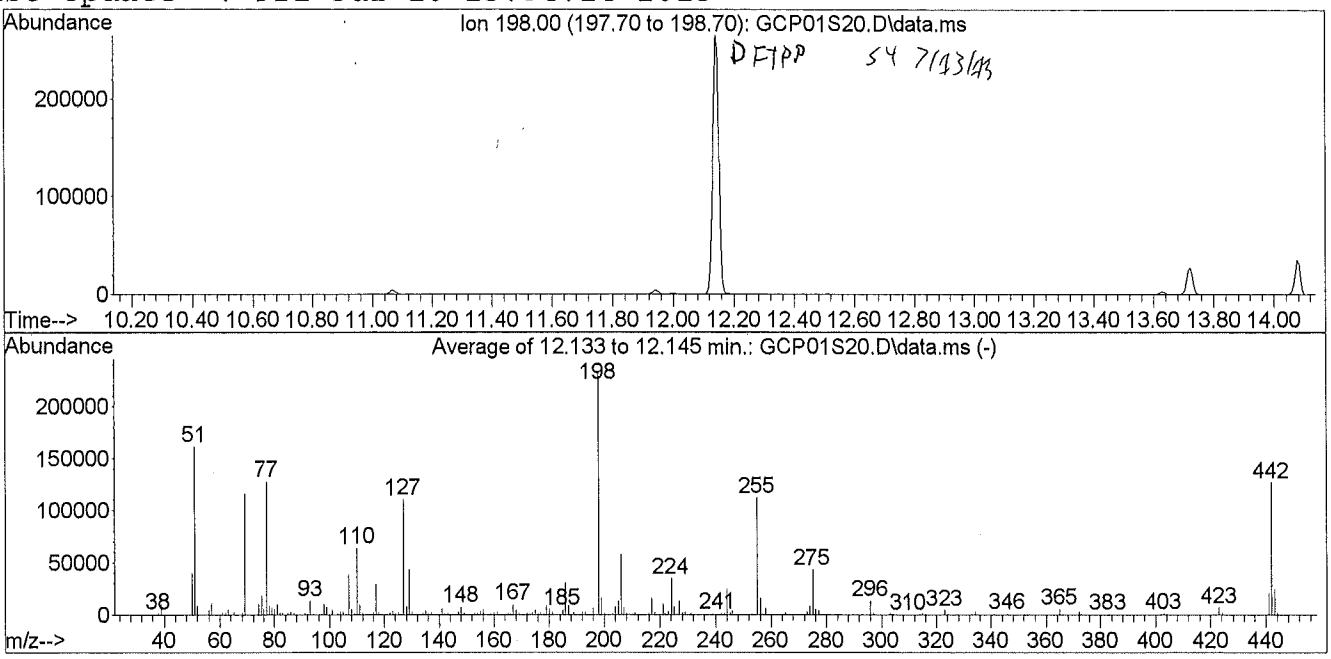
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
420.90	955	434.80	135	444.90	90		
422.00	1008	435.40	48				
423.05	7009	435.65	141				
424.00	1280	436.00	60				
425.05	147	436.90	118				
430.00	43	438.10	66				
432.30	59	438.60	45				
432.60	94	441.05	19783				
433.60	80	442.10	127242				
434.00	40	443.10	23684				
434.20	48	444.05	2251				

DFTPP

Data Path : C:\msdchem\1\data\2015\JUL15\10JUL15\
Data File : GCP01S20.D
Acq On : 07/10/2015 09:42
Operator : TJM
Sample : SSTD020GP 28634 DFTPPGP
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 Jul 10 13:54:14 2015



Average of scans 1708, 1709, 1710

Background subtracted with scan 1698

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	68.8	161004	PASS
68	69	0.00	2	1.5	1704	PASS
69	198	0.00	100	49.2	115208	PASS
70	69	0.00	2	0.4	475	PASS
127	198	10	80	47.2	110344	PASS
197	198	0.00	2	0.2	370	PASS
198	198	100	100	100.0	233941	PASS
199	198	5	9	6.9	16065	PASS
275	198	10	60	18.3	42864	PASS
365	198	1	100	2.3	5347	PASS
441	443	0.01	100	84.7	20297	PASS
442	198	50	100	54.0	126443	PASS
443	442	15	24	18.9	23960	PASS

: 88791

Average of 12.133 to 12.145 min.: GCP01S20.D\data.ms
SSTD020GP 28634 DFTPPGP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.90	159	53.00	511	62.95	5016	74.00	10213
36.95	398	54.95	439	64.00	764	75.00	17877
37.90	1177	56.00	4582	65.00	2786	76.05	6046
39.00	10858	57.00	10436	66.00	72	77.05	127144
39.90	153	57.90	340	67.00	341	78.10	8518
41.00	79	58.10	152	68.05	1704	79.00	7050
44.95	271	58.90	94	69.00	115208	80.00	6014
48.95	1034	59.15	122	70.05	475	81.00	9904
49.95	39753	60.00	165	70.90	144	82.00	2104
51.00	161004	61.00	1796	71.15	193	82.95	1967
52.00	8732	62.00	1854	73.05	647	84.00	133

Average of 12.133 to 12.145 min.: GCP01S20.D\data.ms
SSTD020GP 28634 DFTPPGP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
84.95	1789	96.05	851	107.00	37883	118.85	226
86.00	2521	97.00	453	108.00	5444	120.05	493
87.00	1202	98.00	10161	109.05	1363	121.05	203
87.95	456	99.00	7570	110.00	63352	122.00	1963
89.00	323	100.00	892	111.00	9448	123.00	3142
90.95	1699	101.05	4567	112.00	1188	124.00	1546
92.00	1643	101.95	290	112.95	421	125.05	1607
92.95	13103	102.95	1271	114.90	84	126.05	700
94.05	901	104.00	2700	116.00	1778	127.00	110344
94.95	103	105.00	2639	117.00	29093	128.00	8433
95.20	56	105.95	828	117.95	2039	129.00	43195

Average of 12.133 to 12.145 min.: GCP01S20.D\data.ms
SSTD020GP 28634 DFTPPGP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
129.95	3500	139.95	154	151.05	643	160.05	1867
130.95	907	141.00	5378	151.40	253	161.05	2726
132.00	342	142.05	1806	151.70	144	161.80	176
132.70	51	143.05	1162	152.15	381	162.05	599
133.00	82	144.05	502	153.00	1523	163.05	299
134.00	1361	144.95	305	154.00	1393	164.00	437
135.00	3378	146.05	961	155.05	3476	165.00	1645
136.00	1484	146.95	2505	156.05	5124	166.00	1142
137.10	1712	148.00	6811	156.95	885	167.05	9300
137.90	133	149.05	1261	157.95	950	168.00	4514
138.10	35	150.00	409	158.95	881	169.05	1016

Average of 12.133 to 12.145 min.: GCP01S20.D\data.ms
SSTD020GP 28634 DFTPPGP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
169.90	226	179.00	8648	189.05	2189	199.00	16065
170.10	109	180.05	5560	189.95	416	200.05	1420
170.60	90	181.00	2666	191.00	826	200.80	158
171.00	543	181.90	420	192.05	2500	201.20	161
172.00	1186	182.80	105	193.05	2664	201.55	1018
173.05	1328	183.05	214	194.00	840	202.10	178
174.00	2057	184.00	819	195.10	625	203.00	1512
175.05	4319	185.00	4473	196.00	6599	204.05	7558
176.05	1287	186.05	30309	196.70	363	205.05	13205
177.00	2064	187.05	8543	197.00	370	206.10	56981
178.05	866	188.05	729	198.00	233941	207.00	6861

: 08782

Average of 12.133 to 12.145 min.: GCP01S20.D\data.ms
SSTD020GP 28634 DFTPPGP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
208.00	1724	218.05	1802	227.00	13238	237.90	67
209.00	656	218.90	135	228.00	1907	238.80	71
210.00	299	219.15	198	229.00	2735	238.95	482
210.30	592	220.10	278	229.95	429	239.90	338
211.05	2000	221.05	10220	231.10	1131	241.00	760
211.90	317	221.70	744	232.90	74	242.05	1556
213.00	107	222.00	1135	233.10	91	243.05	1513
213.20	95	223.05	3475	234.00	812	244.10	24179
215.00	599	224.10	34256	235.00	762	245.10	2969
216.00	1467	225.05	7613	236.05	768	246.00	3850
217.00	15356	226.05	930	237.00	869	247.05	866

Average of 12.133 to 12.145 min.: GCP01S20.D\data.ms
SSTD020GP 28634 DFTPPGP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
248.05	263	257.05	1152	269.90	150	279.00	78
248.95	543	258.05	6598	270.30	71	283.00	386
249.90	91	259.00	1087	270.85	315	283.80	77
251.05	371	260.05	176	271.80	73	284.00	239
251.70	135	260.95	145	272.00	351	285.05	849
252.20	344	263.70	56	273.05	3448	286.10	104
252.80	213	263.95	138	274.00	8211	288.90	131
253.10	541	265.00	2402	275.00	42864	290.95	203
253.95	913	265.90	294	276.05	5655	291.80	101
255.00	111723	266.10	137	277.05	3873	291.95	240
256.05	16311	267.55	133	277.95	648	293.00	838

Average of 12.133 to 12.145 min.: GCP01S20.D\data.ms
SSTD020GP 28634 DFTPPGP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
294.00	288	312.90	54	327.85	327	352.05	1187
295.05	175	314.00	808	328.10	178	353.05	790
296.00	13227	314.95	1666	331.95	389	354.05	1046
296.95	1536	316.10	773	332.95	470	355.00	321
301.20	60	319.90	104	334.05	2461	365.00	5347
301.95	295	321.00	400	335.05	693	365.95	630
303.05	1545	322.10	113	341.05	592	369.95	198
304.05	460	323.00	4119	342.10	135	370.90	80
308.00	168	324.10	788	345.95	703	371.10	121
309.00	181	324.85	111	346.85	155	372.05	2269
310.00	253	326.95	757	351.00	98	373.05	511

Average of 12.133 to 12.145 min.: GCP01S20.D\data.ms
SSTD020GP 28634 DFTPPGP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
374.00	67	421.00	955	433.00	88	441.00	20297
382.90	481	421.95	784	433.20	186	442.00	126443
383.10	169	423.00	6482	433.90	115	443.05	23960
384.00	83	424.05	1322	434.40	74	444.05	2202
389.80	202	425.10	78	434.80	72	445.00	151
390.10	128	428.50	149	435.00	59		
390.95	220	429.40	68	435.30	174		
392.00	53	431.30	56	435.70	68		
401.95	839	431.80	59	436.00	67		
403.00	1192	432.10	91	436.70	140		
404.05	525	432.50	53	437.50	78		

: 09783

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK93

Lab Name: ALS Environmental Contract: EPW11037

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

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450193

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBK03BLK

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

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2015

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	170	U
108-95-2	Phenol	170	U
111-44-4	Bis(2-chloroethyl)ether	170	U
95-57-8	2-Chlorophenol	170	U
95-48-7	2-Methylphenol	170	U
108-60-1	2,2'-Oxybis(1-chloropropane)	170	U
98-86-2	Acetophenone	170	U
106-44-5	4-Methylphenol	170	U
621-64-7	N-Nitroso-di-n-propylamine	170	U
67-72-1	Hexachloroethane	170	U
98-95-3	Nitrobenzene	170	U
78-59-1	Isophorone	170	U
88-75-5	2-Nitrophenol	170	U
105-67-9	2,4-Dimethylphenol	170	U
111-91-1	Bis(2-chloroethoxy)methane	170	U
120-83-2	2,4-Dichlorophenol	170	U
91-20-3	Naphthalene	170	U
106-47-8	4-Chloroaniline	170	U
87-68-3	Hexachlorobutadiene	170	U
105-60-2	Caprolactam	170	U
59-50-7	4-Chloro-3-methylphenol	170	U
91-57-6	2-Methylnaphthalene	170	U
77-47-4	Hexachlorocyclopentadiene	170	U
88-06-2	2,4,6-Trichlorophenol	170	U
95-95-4	2,4,5-Trichlorophenol	170	U
92-52-4	1,1'-Biphenyl	170	U
91-58-7	2-Chloronaphthalene	170	U
88-74-4	2-Nitroaniline	330	U
131-11-3	Dimethylphthalate	170	U
606-20-2	2,6-Dinitrotoluene	170	U
208-96-8	Acenaphthylene	170	U
99-09-2	3-Nitroaniline	330	U
83-32-9	Acenaphthene	170	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK93

Lab Name: ALS Environmental Contract: EPW11037

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

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450193

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBK03BLK

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

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2015

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	330	U
100-02-7	4-Nitrophenol	330	U
132-64-9	Dibenzofuran	170	U
121-14-2	2,4-Dinitrotoluene	170	U
84-66-2	Diethylphthalate	170	U
86-73-7	Fluorene	170	U
7005-72-3	4-Chlorophenyl-phenylether	170	U
100-01-6	4-Nitroaniline	330	U
534-52-1	4,6-Dinitro-2-methylphenol	330	U
86-30-6	N-Nitrosodiphenylamine[1]	170	U
95-94-3	1,2,4,5-Tetrachlorobenzene	170	U
101-55-3	4-Bromophenyl-phenylether	170	U
118-74-1	Hexachlorobenzene	170	U
1912-24-9	Atrazine	170	U
87-86-5	Pentachlorophenol	330	U
85-01-8	Phenanthrene	170	U
120-12-7	Anthracene	170	U
86-74-8	Carbazole	170	U
84-74-2	Di-n-butylphthalate	170	U
206-44-0	Fluoranthene	170	U
129-00-0	Pyrene	170	U
85-68-7	Butylbenzylphthalate	170	U
91-94-1	3,3'-Dichlorobenzidine	170	U
56-55-3	Benzo(a)anthracene	170	U
218-01-9	Chrysene	170	U
117-81-7	Bis(2-ethylhexyl)phthalate	170	U
117-84-0	Di-n-octylphthalate	170	U
205-99-2	Benzo(b)fluoranthene	170	U
207-08-9	Benzo(k)fluoranthene	170	U
50-32-8	Benzo(a)pyrene	170	U
193-39-5	Indeno(1,2,3-cd)pyrene	170	U
53-70-3	Dibenzo(a,h)anthracene	170	U
191-24-2	Benzo(g,h,i)perylene	170	U
58-90-2	2,3,4,6-Tetrachlorophenol	170	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK93

Lab Name: ALS Environmental Contract: EPW11037

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

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450193

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBK03BLK

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

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2015

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

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	625-86-5	Furan, 2,5-dimethyl-	2.50	1000	JN
02		Unknown 2-Pentanone, 4-hydroxy-	3.38	310	J
03		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.60	8800	J
04		Unknown 2-(2-Methoxyethoxy)ethyl acetate	4.16	150	J
05		Unknown 3-Hexene-2,5-dione	4.36	360	J
06		Unknown 6-Amino-2,4-dithiouracil	6.82	87.	J
07	629-54-9	Hexadecanamide	14.25	130	JN
08	301-02-0	9-Octadecenamide, (Z)-	15.17	860	JN
09		Unknown 2,6-Octadienoic acid, 3-methyl-, methyl	16.32	130	J
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	930	J

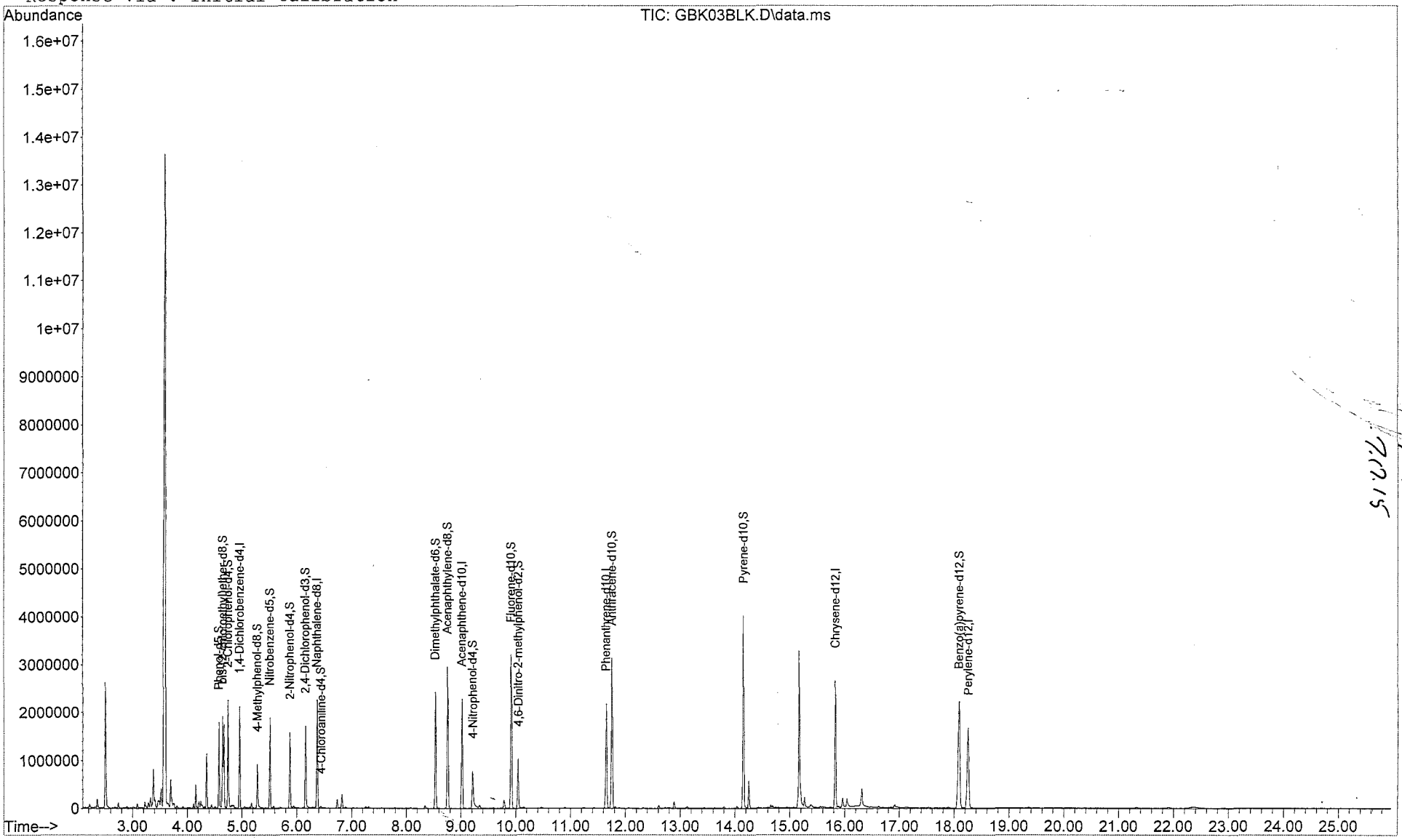
[2] EPA-designated Registry Number.

Quantitation Report

Data File : R:\G\2015\JUN15\12JUN15\12JUN15\GBK03BLK.D Vial: 2
Acq On : 06/12/2015 17:14 Operator: DJC
Sample : 450193 SBLK93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 17 07:57:25 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\12JUN15\12JUN15\GBK03BLK.D Vial: 2
Acq On : 06/12/2015 17:14 Operator: DJC
Sample : 450193 SBLK93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 17 07:57:25 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	355500	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1388256	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	802233	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1296788	20.00 ug/ml
73) Chrysene-d12	15.83	240	1247962	20.00 ug/ml
81) Perylene-d12	18.26	264	1232287	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.58	99	720256	29.054ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	414455	27.304ug/mL
7) 2-Chlorophenol-d4	4.75	132	696745	28.626ug/ml
13) 4-Methylphenol-d8	5.28	113	246850	12.790ug/mL
17) Nitrobenzene-d5	5.51	128	357718	30.712ug/ml
21) 2-Nitrophenol-d4	5.87	143	411573	31.707ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	500359	26.313ug/mL
28) 4-Chloroaniline-d4	6.44	131	21123	1.024ug/mL
42) Dimethylphthalate-d6	8.53	166	1583422	32.455ug/mL
45) Acenaphthylene-d8	8.76	160	1972433	30.293ug/mL
50) 4-Nitrophenol-d4	9.22	143	317666	30.576ug/mL
57) Fluorene-d10	9.92	176	1357755	32.040ug/mL
61) 4,6-Dinitro-2-methylphenol	10.05	200	266915	31.335ug/mL
69) Anthracene-d10	11.76	188	2074633	31.626ug/mL
75) Pyrene-d10	14.16	212	1852985	32.660ug/mL
86) Benzo(a)pyrene-d12	18.09	264	1754157	31.382ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	0.00	77		Not Detected
4) Phenol	0.00	94		Not Detected
5) Bis(2-chloroethyl)ether	0.00	93		Not Detected
8) 2-Chlorophenol	0.00	128		Not Detected
9) 2-Methylphenol	0.00	108		Not Detected
10) 2,2'-Oxybis-(1-chloropropa	0.00	45		Not Detected
11) Acetophenone	0.00	105		Not Detected
12) 4-methylphenol	0.00	108		Not Detected
14) N-Nitroso-di-n-propylamine	0.00	70		Not Detected
15) Hexachloroethane	0.00	117		Not Detected
18) Nitrobenzene	0.00	77		Not Detected
19) Isophorone	0.00	82		Not Detected
20) 2-Nitrophenol	0.00	139		Not Detected
22) 2,4-Dimethylphenol	0.00	107		Not Detected
23) Bis(2-chloroethoxy)methane	0.00	93		Not Detected
24) 2,4-Dichlorophenol	0.00	162		Not Detected
26) Naphthalene	0.00	128		Not Detected
27) 4-Chloroaniline	0.00	127		Not Detected
29) Hexachlorobutadiene	0.00	225		Not Detected
30) Caprolactam	0.00	113		Not Detected
31) 4-Chloro-3-methylphenol	0.00	107		Not Detected
32) 2-Methylnaphthalene	0.00	142		Not Detected
34) 1,2,4,5-Tetrachlorobenzene	0.00	216		Not Detected
35) Hexachlorocyclopentadiene	0.00	237		Not Detected
36) 2,4,6-Trichlorophenol	0.00	196		Not Detected
37) 2,4,5-Trichlorophenol	0.00	196		Not Detected
38) 1,1'-Biphenyl	0.00	154		Not Detected
39) 2-Chloronaphthalene	0.00	162		Not Detected
40) 2-Nitroaniline	0.00	65		Not Detected
41) Dimethylphthalate	0.00	163		Not Detected
43) 2,6-Dinitrotoluene	0.00	165		Not Detected

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

00788

Quantitation Report

Data File : R:\G\2015\JUN15\12JUN15\12JUN15\GBK03BLK.D Vial: 2
Acq On : 06/12/2015 17:14 Operator: DJC
Sample : 450193 SBLK93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 17 07:57:25 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)

00789

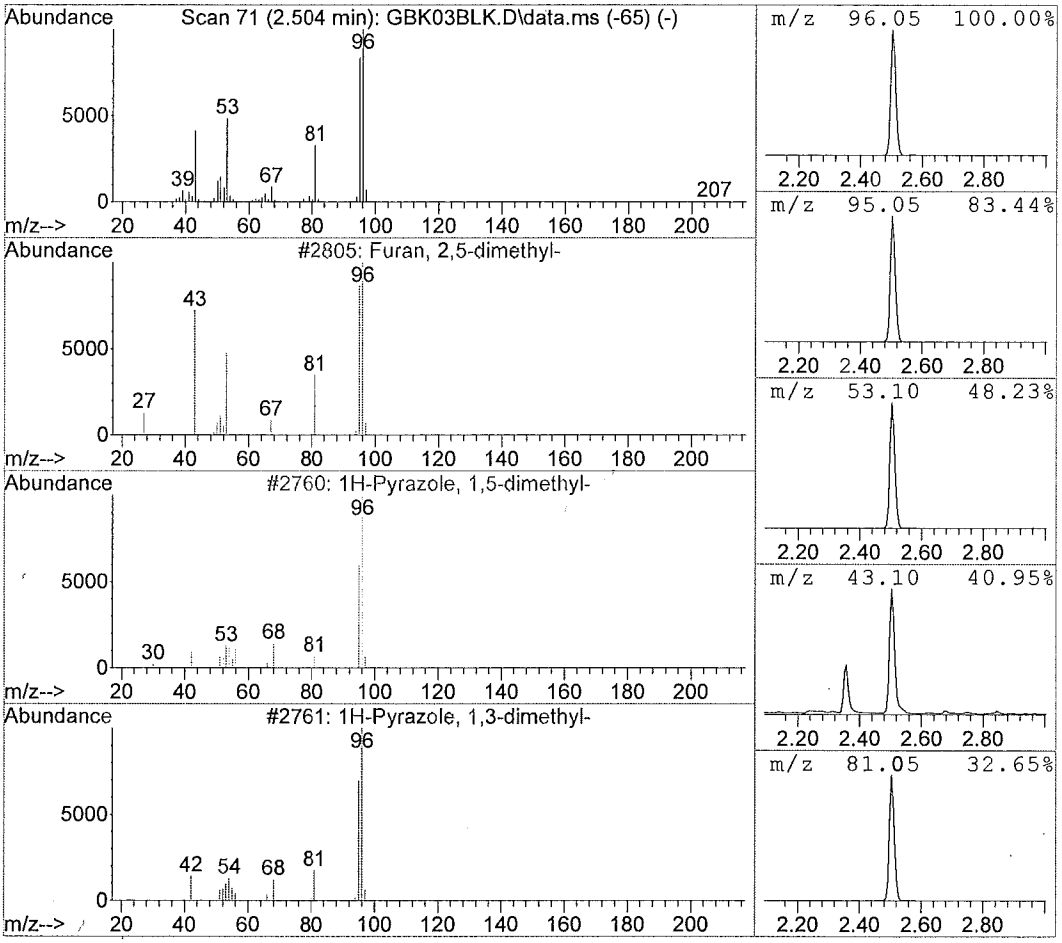
Library Search Compound Report

Data File : R:\G\2015\JUN15\12JUN15\12JUN15\GBK03BLK.D Vial: 2
Acq On : 06/12/2015 17:14 Operator: DJC
Sample : 450193 SBLK93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p 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	30.65 ug/ml	3051650	1,4-Dichlorobenzene-d4	1991154

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Furan, 2,5-dimethyl-	2805	000625-86-5	94.00
2	1H-Pyrazole, 1,5-dimethyl-	2760	000694-31-5	38.00
3	1H-Pyrazole, 1,3-dimethyl-	2761	000694-48-4	38.00
4	2-Cyclopenten-1-one, 3-methyl-	2821	002758-18-1	38.00
5	3,5-Dimethylpyrazole	2748	000067-51-6	35.00



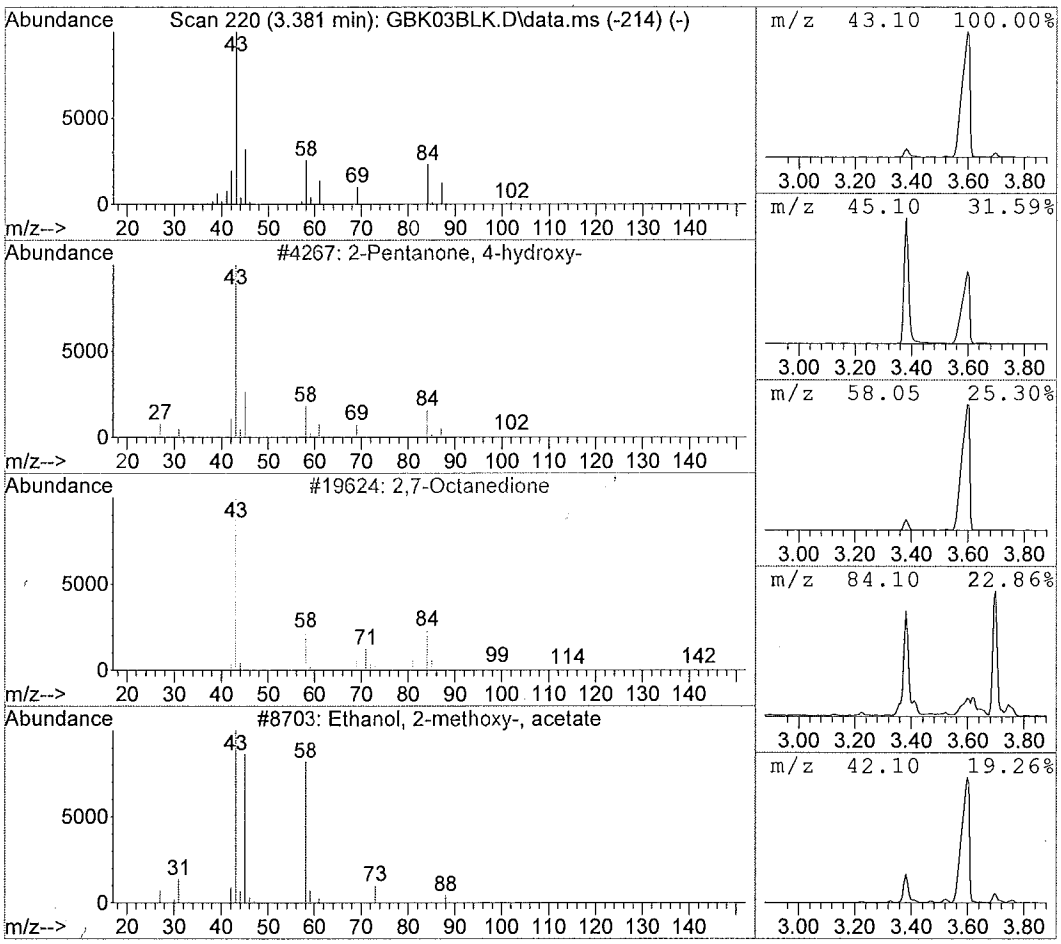
Library Search Compound Report

Data File : R:\G\2015\JUN15\12JUN15\12JUN15\GBK03BLK.D Vial: 2
Acq On : 06/12/2015 17:14 Operator: DJC
Sample : 450193 SBLK93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p 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	9.44 ug/ml	940302	1,4-Dichlorobenzene-d4	1991154

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	56.00
2	2,7-Octanedione	19624	001626-09-1	25.00
3	Ethanol, 2-methoxy-, acetate	8703	000110-49-6	12.00
4	Isopropyl acetate	4254	000108-21-4	10.00
5	Acetone	217	000067-64-1	9.00



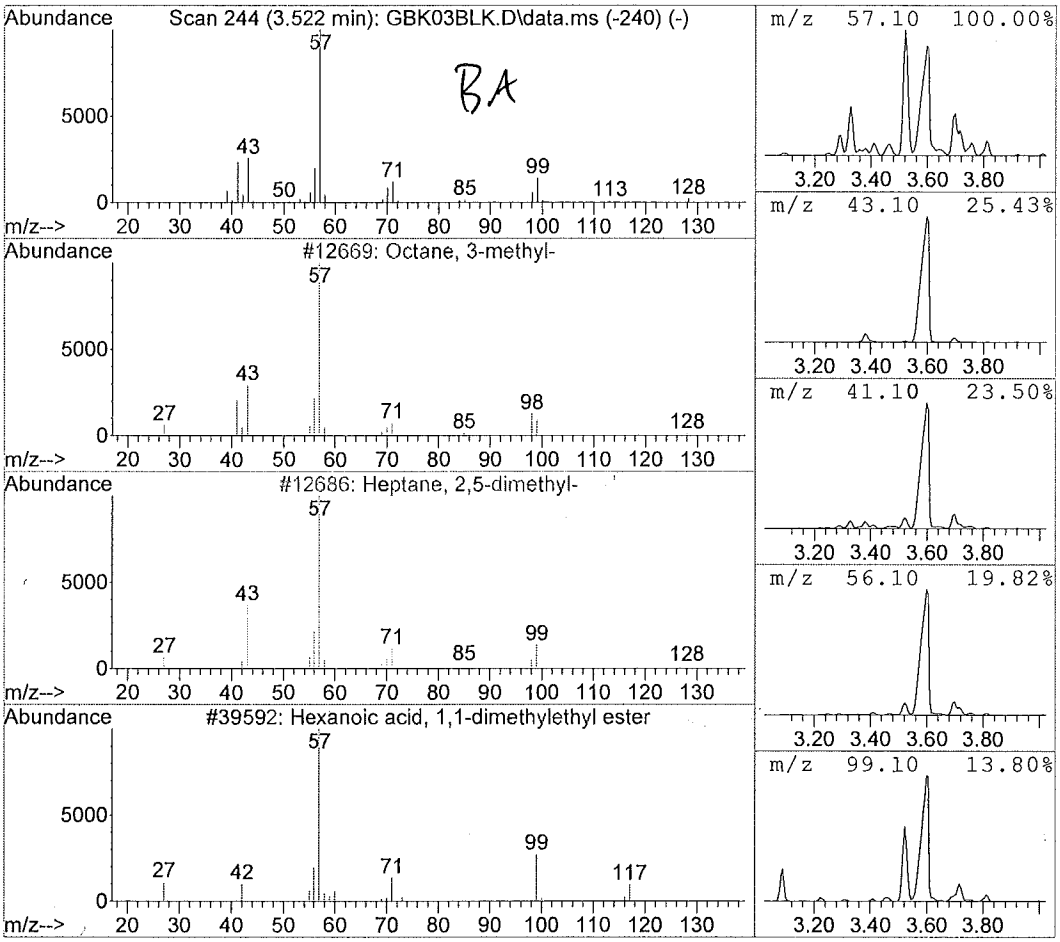
Library Search Compound Report

Data File : R:\G\2015\JUN15\12JUN15\12JUN15\GBK03BLK.D Vial: 2
Acq On : 06/12/2015 17:14 Operator: DJC
Sample : 450193 SBLK93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p 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
3.52	4.34 ug/ml	431945	1,4-Dichlorobenzene-d4	1991154

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octane, 3-methyl-	12669	002216-33-3	91.00
2	Heptane, 2,5-dimethyl-	12686	002216-30-0	86.00
3	Hexanoic acid, 1,1-dimethylethyl es	39592	002492-18-4	72.00
4	2,2,4,4-Tetramethyloctane	38352	062183-79-3	64.00
5	Heptane, 3,5-dimethyl-	12698	000926-82-9	59.00



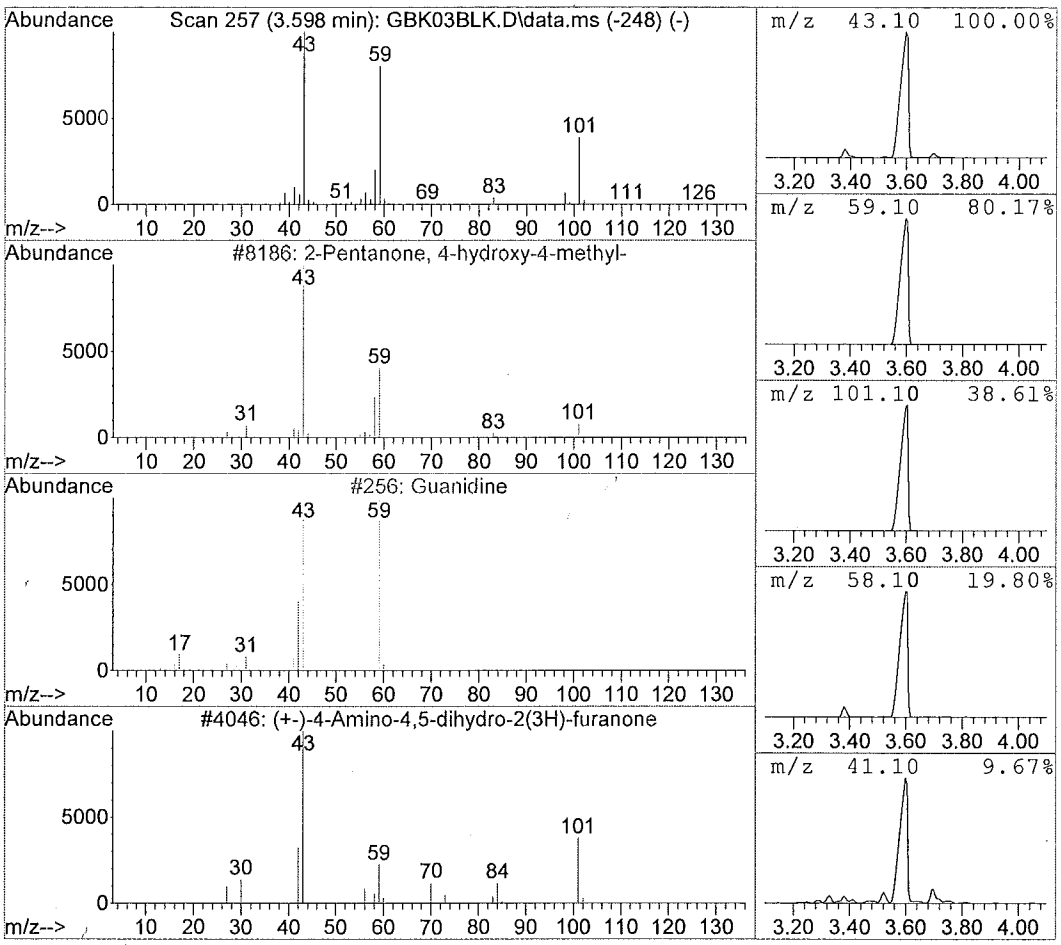
Library Search Compound Report

Data File : R:\G\2015\JUN15\12JUN15\12JUN15\GBK03BLK.D Vial: 2
Acq On : 06/12/2015 17:14 Operator: DJC
Sample : 450193 SBLK93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p 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	262.62 ug/ml	26146317	1,4-Dichlorobenzene-d4	1991154

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	50.00
2	Guanidine	256	000113-00-8	43.00
3	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	35.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	23.00
5	Propanamide, N-ethyl-	4082	005129-72-6	10.00



Library Search Compound Report

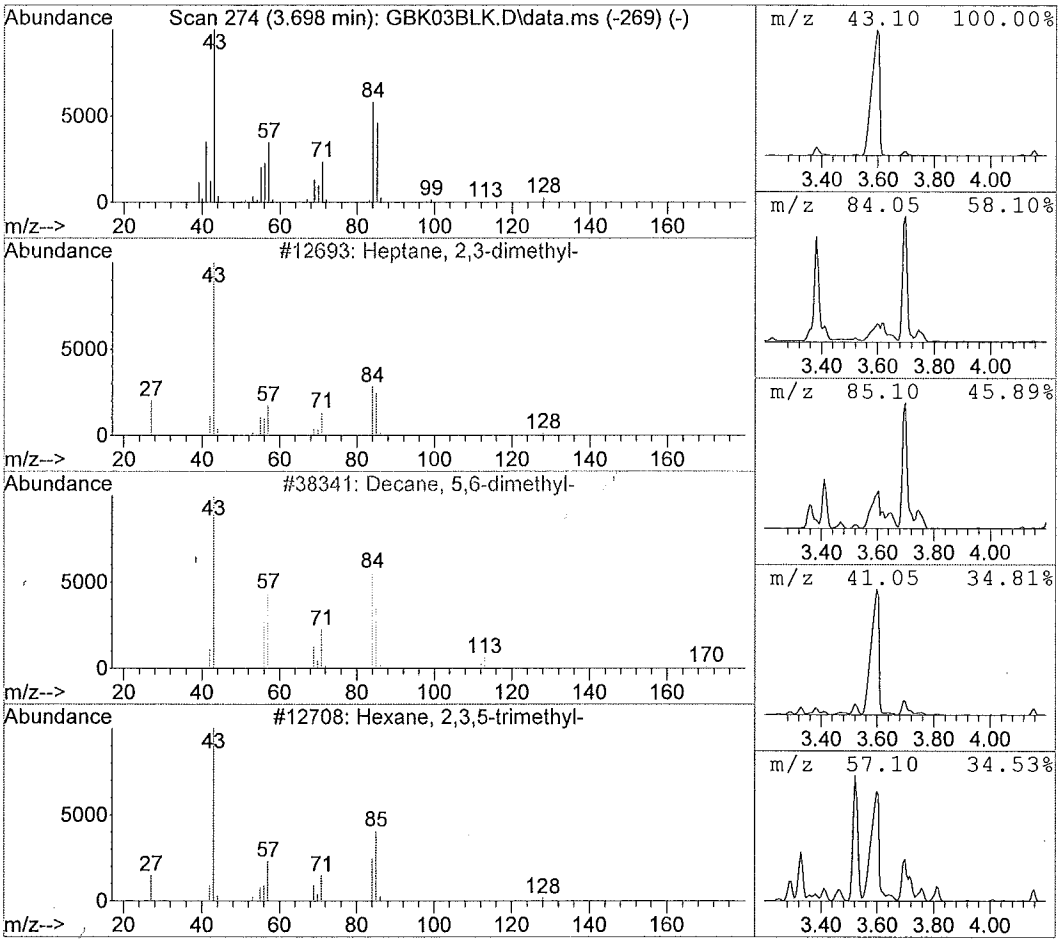
Data File : R:\G\2015\JUN15\12JUN15\12JUN15\GBK03BLK.D Vial: 2
Acq On : 06/12/2015 17:14 Operator: DJC
Sample : 450193 SBLK93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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	8.18 ug/ml	814164	1,4-Dichlorobenzene-d4	1991154

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12693	003074-71-3	74.00
2	Decane, 5,6-dimethyl-	38341	001636-43-7	64.00
3	Hexane, 2,3,5-trimethyl-	12708	001069-53-0	58.00
4	Octane, 3,4-dimethyl-	19179	015869-92-8	50.00
5	Hexane, 2,4-dimethyl-	7633	000589-43-5	50.00

BA



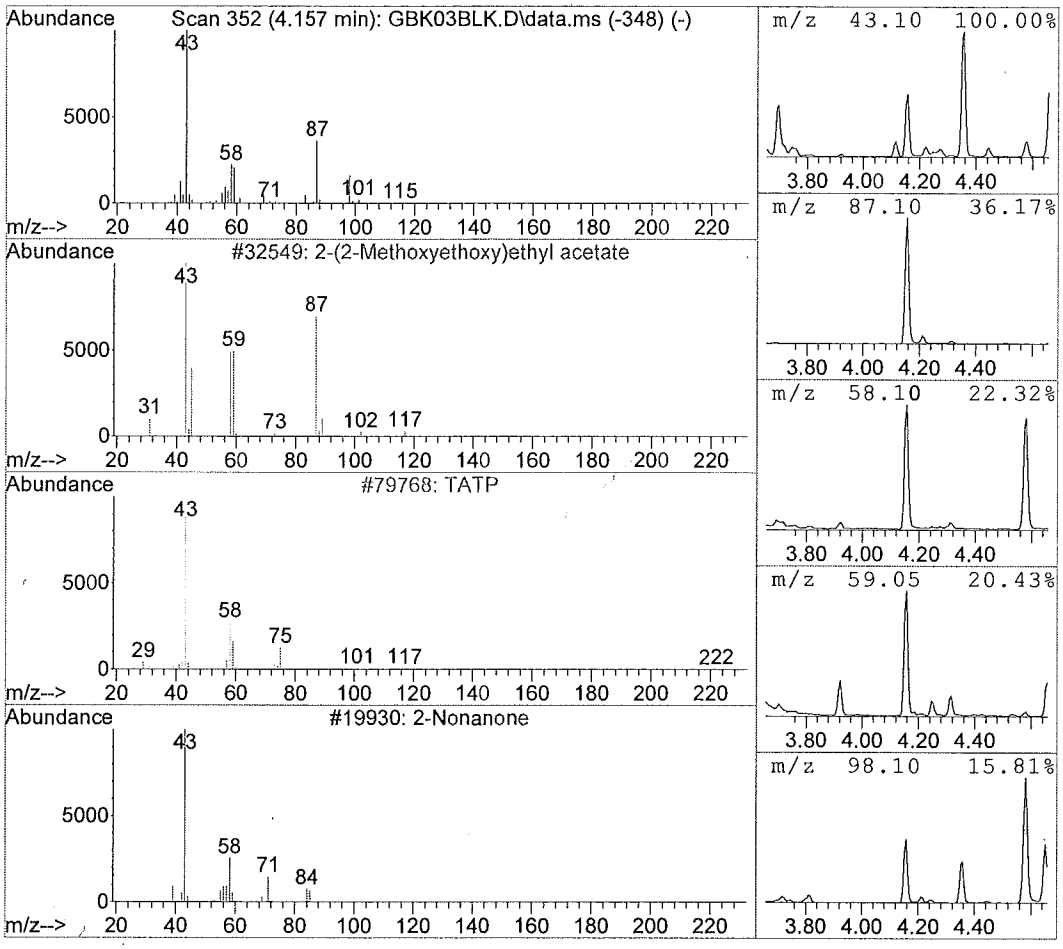
Library Search Compound Report

Data File : R:\G\2015\JUN15\12JUN15\12JUN15\GBK03BLK.D Vial: 2
Acq On : 06/12/2015 17:14 Operator: DJC
Sample : 450193 SBLK93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p 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	4.56 ug/ml	454153	1,4-Dichlorobenzene-d4	1991154

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-(2-Methoxyethoxy)ethyl acetate	32549	1000351-95-4	53.00
2	TATP	79768	017088-37-8	38.00
3	2-Nonanone	19930	000821-55-6	35.00
4	2-Pentanone, 4-hydroxy-4-methyl-	8178	000123-42-2	28.00
5	2-Hexanone, 6-(acetyloxy)-	30005	004305-26-4	17.00



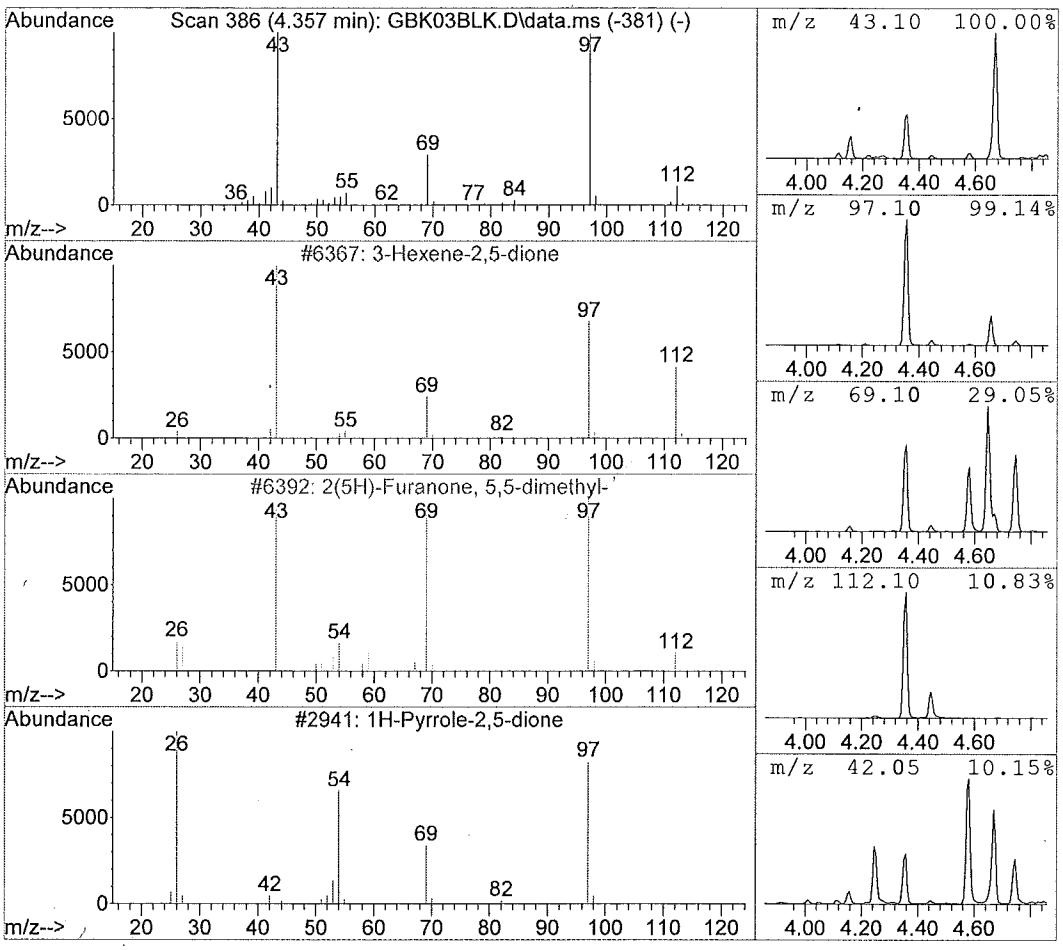
Library Search Compound Report

Data File : R:\G\2015\JUN15\12JUN15\12JUN15\GBK03BLK.D Vial: 2
Acq On : 06/12/2015 17:14 Operator: DJC
Sample : 450193 SBLK93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p 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	10.79 ug/ml	1074137	1,4-Dichlorobenzene-d4	1991154

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Hexene-2,5-dione	6367	004436-75-3	78.00
2	2(5H)-Furanone, 5,5-dimethyl-	6392	020019-64-1	64.00
3	1H-Pyrrole-2,5-dione	2941	000541-59-3	40.00
4	4-Methyl-2-pyrazolin-5-one	3041	013315-23-6	36.00
5	5-Hexen-2-one, 5-methyl-	6529	003240-09-3	10.00



Library Search Compound Report

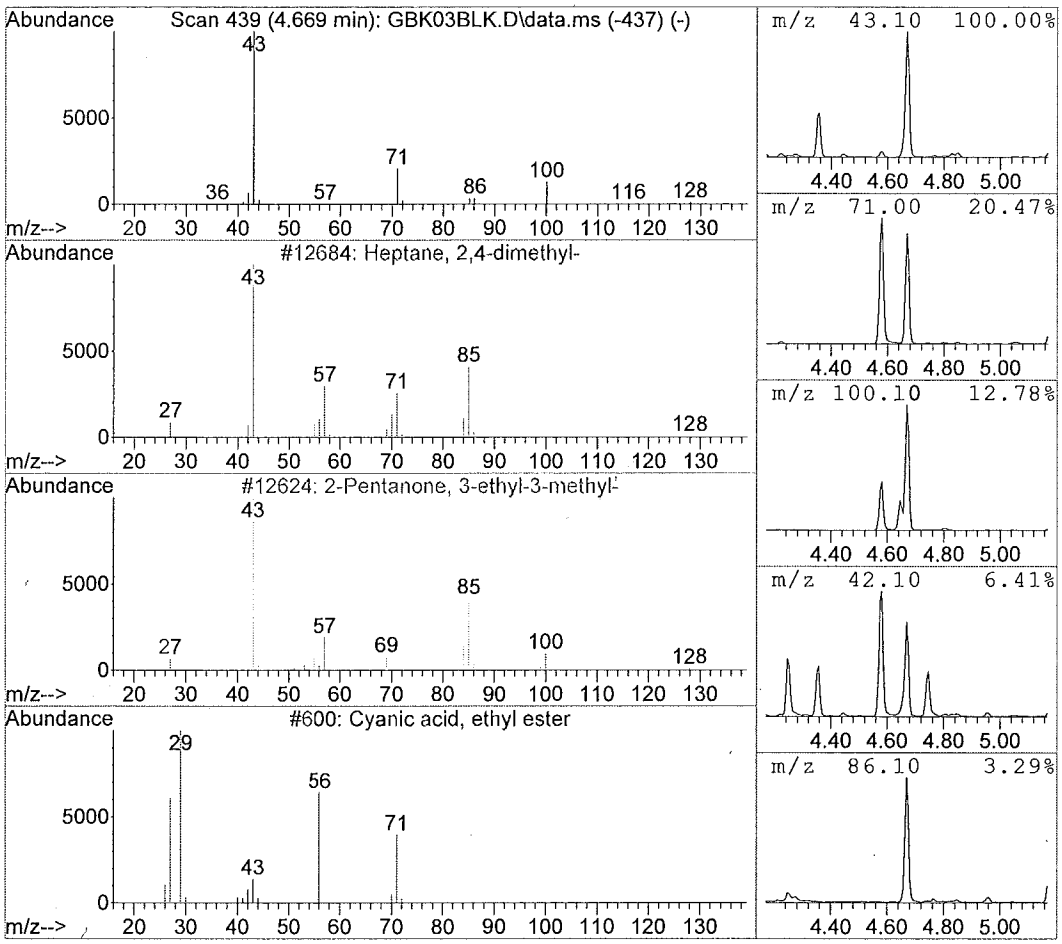
Data File : R:\G\2015\JUN15\12JUN15\12JUN15\GBK03BLK.D Vial: 2
Acq On : 06/12/2015 17:14 Operator: DJC
Sample : 450193 SBLK93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

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
4.67	15.25 ug/ml	1518004	1,4-Dichlorobenzene-d4	1991154

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,4-dimethyl-	12684	002213-23-2	45.00
2	2-Pentanone, 3-ethyl-3-methyl-	12624	019780-65-5	9.00
3	Cyanic acid, ethyl ester	600	000627-48-5	9.00
4	Heptane, 2,3-dimethyl-	12694	003074-71-3	9.00
5	Pentane, 2-methyl-	1823	000107-83-5	9.00

BA



: 00757

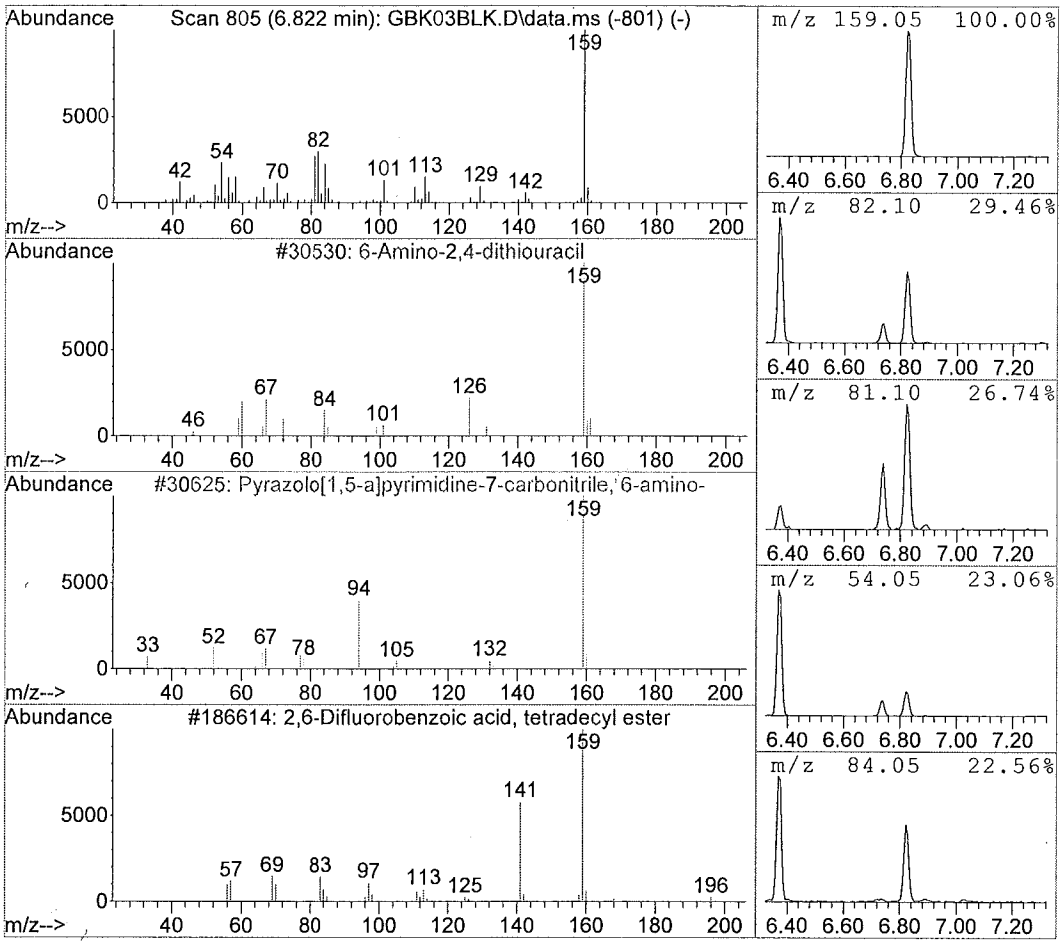
Library Search Compound Report

Data File : R:\G\2015\JUN15\12JUN15\12JUN15\GBK03BLK.D Vial: 2
Acq On : 06/12/2015 17:14 Operator: DJC
Sample : 450193 SBLK93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p 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
6.82	2.62 ug/ml	355463	Naphthalene-d8	2708404

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	6-Amino-2,4-dithiouracil	30530	006632-70-8	38.00
2	Pyrazolo[1,5-a]pyrimidine-7-carboni	30625	1000267-04-4	35.00
3	2,6-Difluorobenzoic acid, tetradecy	186614	1000292-39-4	32.00
4	3-Amino-2-naphthol	30395	005417-63-0	32.00
5	2,5-Difluorobenzoic acid, eicosyl e	224255	1000338-81-8	32.00



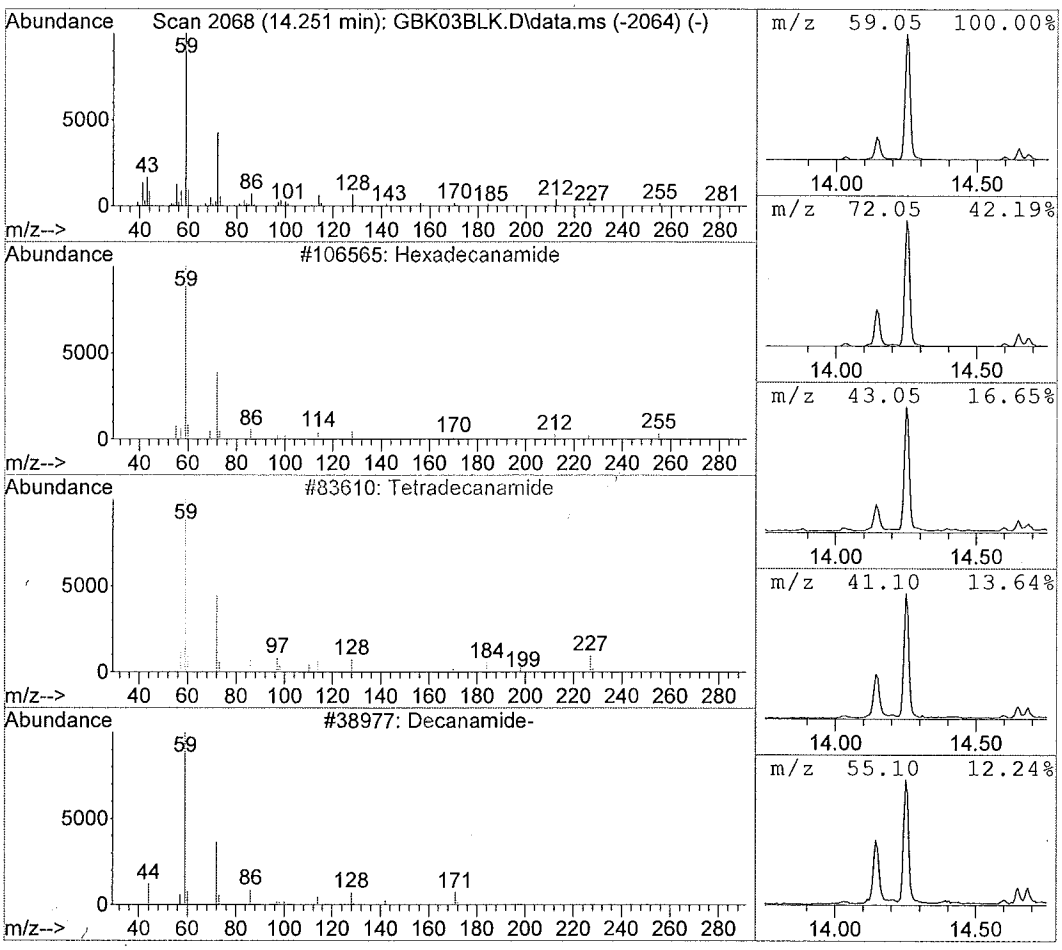
Library Search Compound Report

Data File : R:\G\2015\JUN15\12JUN15\12JUN15\GBK03BLK.D Vial: 2
Acq On : 06/12/2015 17:14 Operator: DJC
Sample : 450193 SBLK93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p 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	3.92 ug/ml	692135	Chrysene-d12	3533280

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	95.00
2	Tetradecanamide	83610	000638-58-4	90.00
3	Decanamide-	38977	002319-29-1	78.00
4	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	72.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	64.00



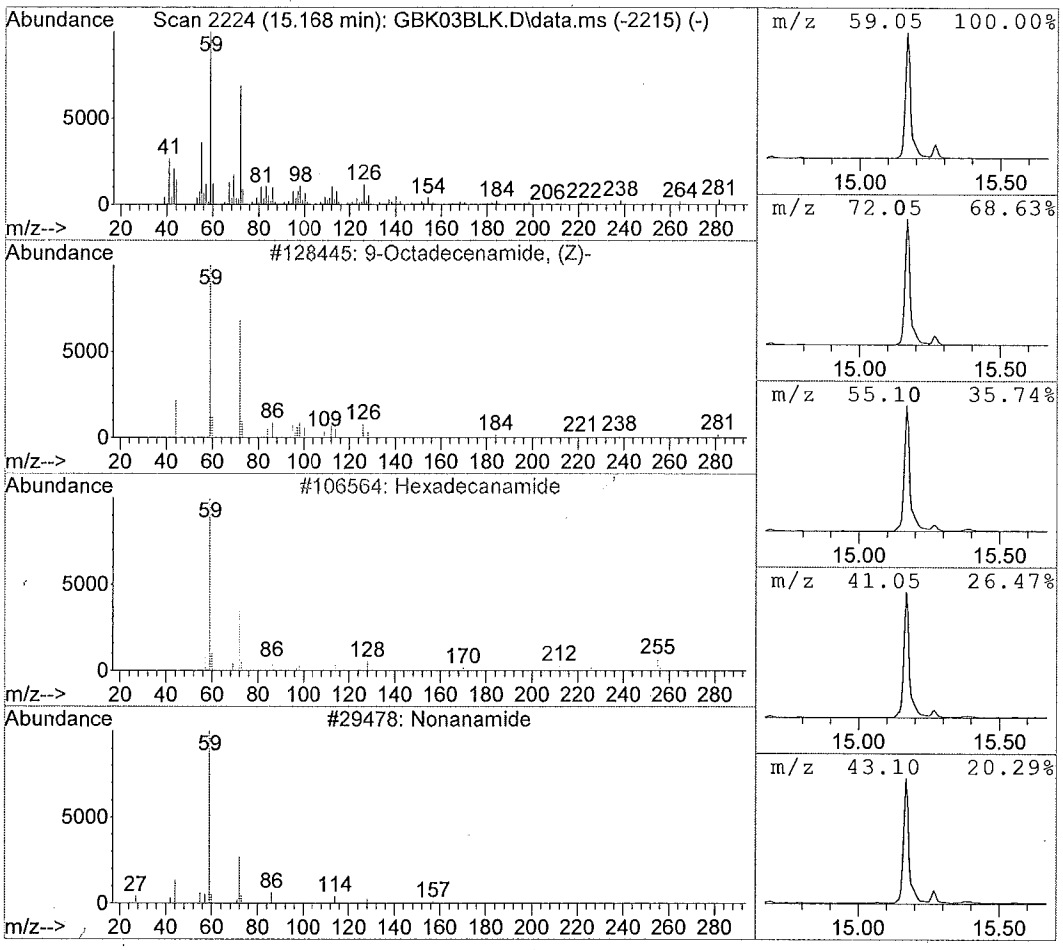
Library Search Compound Report

Data File : R:\G\2015\JUN15\12JUN15\12JUN15\GBK03BLK.D Vial: 2
Acq On : 06/12/2015 17:14 Operator: DJC
Sample : 450193 SBLK93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p 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	25.90 ug/ml	4575867	Chrysene-d12	3533280

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Hexadecanamide	106564	000629-54-9	56.00
3	Nonanamide	29478	001120-07-6	53.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	50.00
5	Pentanamide, 4-methyl-	7815	001119-29-5	50.00



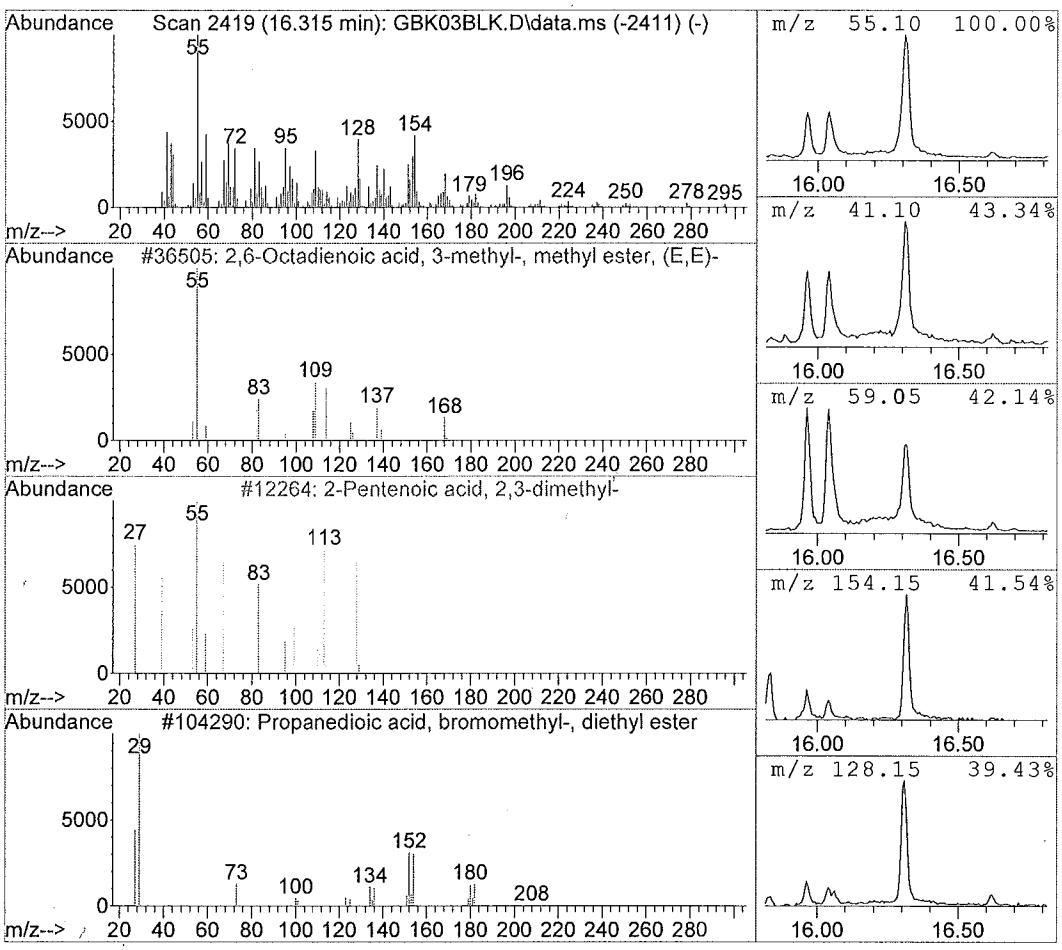
Library Search Compound Report

Data File : R:\G\2015\JUN15\12JUN15\12JUN15\GBK03BLK.D Vial: 2
Acq On : 06/12/2015 17:14 Operator: DJC
Sample : 450193 SBLK93 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p 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	3.89 ug/ml	686993	Chrysene-d12	3533280

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,6-Octadienoic acid, 3-methyl-, me	36505	055283-13-1	11.00
2	2-Pentenoic acid, 2,3-dimethyl-	12264	122630-51-7	10.00
3	Propanedioic acid, bromomethyl-, di	104290	029263-94-3	9.00
4	2-(6'-Methoxycarbonyl-5'-methyl-2'-	96940	085547-38-2	9.00
5	2,6-Decadienoic acid, 3-methyl-, et	69363	055283-34-6	9.00

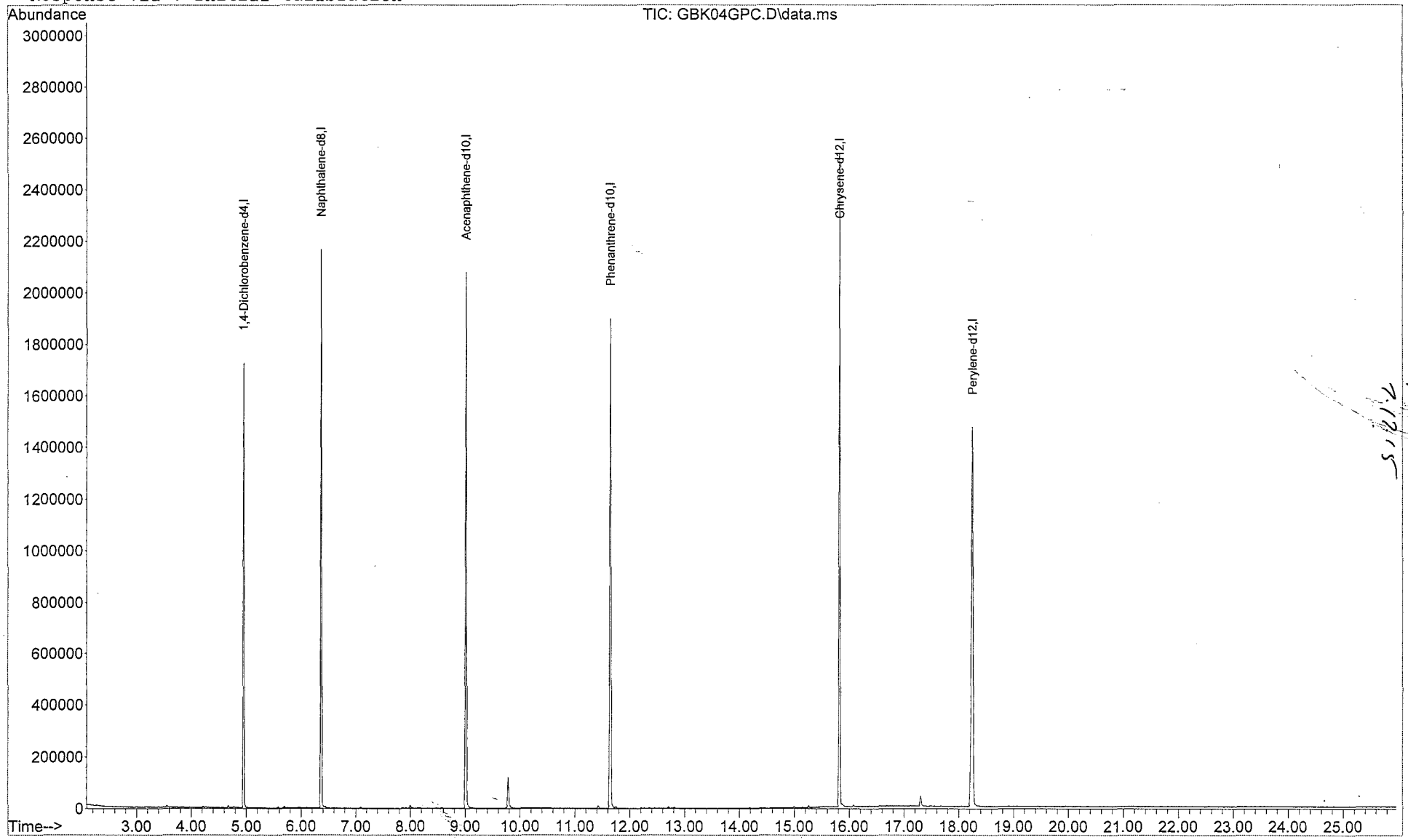


Quantitation Report

Data File : R:\G\2015\JUN15\12JUN15\12JUN15\GBK04GPC.D Vial: 3
Acq On : 06/12/2015 17:46 Operator: DJC
Sample : 450810 GBLK10 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 17 07:58:10 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\12JUN15\12JUN15\GBK04GPC.D Vial: 3
Acq On : 06/12/2015 17:46 Operator: DJC
Sample : 450810 GBLK10 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 17 07:58:10 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	336300	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1290188	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	731462	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1147202	20.00 ug/ml
73) Chrysene-d12	15.83	240	1119840	20.00 ug/ml
81) Perylene-d12	18.25	264	1113965	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	0.00	99	0	0.000ug/ml
6) bis-(2-chloroethyl)ether-d	0.00	67	0	0.000ug/mL
7) 2-Chlorophenol-d4	0.00	132	0	0.000ug/ml
13) 4-Methylphenol-d8	0.00	113	0	0.000ug/mL
17) Nitrobenzene-d5	0.00	128	0	0.000ug/ml
21) 2-Nitrophenol-d4	0.00	143	0	0.000ug/mL
25) 2,4-Dichlorophenol-d3	0.00	165	0	0.000ug/mL
28) 4-Chloroaniline-d4	0.00	131	0	0.000ug/mL
42) Dimethylphthalate-d6	0.00	166	0	0.000ug/mL
45) Acenaphthylene-d8	0.00	160	0	0.000ug/mL
50) 4-Nitrophenol-d4	0.00	143	0	0.000ug/mL
57) Fluorene-d10	9.90	176	320	0.008ug/mL
61) 4,6-Dinitro-2-methylphenol	0.00	200	0	0.000ug/mL
69) Anthracene-d10	0.00	188	0	0.000ug/mL
75) Pyrene-d10	0.00	212	0	0.000ug/mL
86) Benzo(a)pyrene-d12	0.00	264	0	0.000ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	0.00	77		Not Detected
4) Phenol	0.00	94		Not Detected
5) Bis(2-chloroethyl)ether	0.00	93		Not Detected
8) 2-Chlorophenol	0.00	128		Not Detected
9) 2-Methylphenol	0.00	108		Not Detected
10) 2,2'-Oxybis-(1-chloropropa	0.00	45		Not Detected
11) Acetophenone	0.00	105		Not Detected
12) 4-methylphenol	0.00	108		Not Detected
14) N-Nitroso-di-n-propylamine	0.00	70		Not Detected
15) Hexachloroethane	0.00	117		Not Detected
18) Nitrobenzene	0.00	77		Not Detected
19) Isophorone	0.00	82		Not Detected
20) 2-Nitrophenol	0.00	139		Not Detected
22) 2,4-Dimethylphenol	0.00	107		Not Detected
23) Bis(2-chloroethoxy)methane	0.00	93		Not Detected
24) 2,4-Dichlorophenol	0.00	162		Not Detected
26) Naphthalene	0.00	128		Not Detected
27) 4-Chloroaniline	0.00	127		Not Detected
29) Hexachlorobutadiene	0.00	225		Not Detected
30) Caprolactam	0.00	113		Not Detected
31) 4-Chloro-3-methylphenol	0.00	107		Not Detected
32) 2-Methylnaphthalene	0.00	142		Not Detected
34) 1,2,4,5-Tetrachlorobenzene	0.00	216		Not Detected
35) Hexachlorocyclopentadiene	0.00	237		Not Detected
36) 2,4,6-Trichlorophenol	0.00	196		Not Detected
37) 2,4,5-Trichlorophenol	0.00	196		Not Detected
38) 1,1'-Biphenyl	0.00	154		Not Detected
39) 2-Chloronaphthalene	0.00	162		Not Detected
40) 2-Nitroaniline	0.00	65		Not Detected
41) Dimethylphthalate	0.00	163		Not Detected
43) 2,6-Dinitrotoluene	0.00	165		Not Detected

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

Quantitation Report

Data File : R:\G\2015\JUN15\12JUN15\12JUN15\GBK04GPC.D Vial: 3
Acq On : 06/12/2015 17:46 Operator: DJC
Sample : 450810 GBLK10 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 17 07:58:10 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)

2M - FORM II SV-SIM2

SOIL SEMIVOLATILE SIM DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

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

	EPA SAMPLE NO.	SDMC17 (FLN) #	SDMC18 (2MN) #	TOT OUT
01	F9M21	95	87	0
02	F9M22	74	66	0
03	F9M23	1136 D	0 D	0
04	F9M24	0 D	0 D	0
05	F9M25	100	93	0
06	F9M26	94	87	0
07	F9M27	64	63	0
08	F9M28	92	85	0
09	F9M29	86	84	0
10	F9M30	106	93	0
11	F9M31	107	101	0
12	F9M32	102	83	0
13	F9M33	90	76	0
14	F9M34	104	96	0
15	F9M35	96	79	0
16	F9M37	0 D	0 D	0
17	F9M38	105	97	0
18	F9M39	105	87	0
19	F9M40	0 D	0 D	0
20	F9M41	57	80	0
21	SBLK93	84	92	0
22				
23				
24				
25				
26				
27				
28				
29				
30				

Column to be used to flag recovery values
* Values outside of contract required QC limits
D DMC diluted out

4D - FORM IV SV-SIM
SEMIVOLATILE SIM METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK93

Lab Name: ALS Environmental Contract: EPW11037

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

Lab File ID: DGB03BLK Lab Sample ID: 450193

Instrument ID: 5975-D Date Extracted: 06/08/2015

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 06/15/2015

Time Analyzed: 15:32 Extraction: (Type) SONC GPC Cleanup: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	F9M21	1515542001	DFN03F01	07/16/2015
02	F9M22	1515542002	DFN04F02	07/16/2015
03	F9M23	1515542003	DGB07F03	06/15/2015
04	F9M24	1515542004	DGB08F04	06/15/2015
05	F9M25	1515542005	DFN05F05	07/16/2015
06	F9M26	1515542006	DFN06F06	07/16/2015
07	F9M27	1515542007	DFN12F07	07/16/2015
08	F9M28	1515542010	DFN13F10	07/16/2015
09	F9M29	1515542011	DFN14F11	07/16/2015
10	F9M30	1515542012	DFN15F12	07/16/2015
11	F9M31	1515542013	DFN16F13	07/16/2015
12	F9M32	1515542014	DFN17F14	07/16/2015
13	F9M33	1515542015	DFN18F15	07/16/2015
14	F9M34	1515542016	DFN19F16	07/16/2015
15	F9M35	1515542017	DFN20F17	07/16/2015
16	F9M37	1515542018	DGB22F18	06/16/2015
17	F9M38	1515542019	DFN21F19	07/16/2015
18	F9M39	1515542020	DFN22F20	07/16/2015
19	F9M40	1515542021	DGB25F21	06/16/2015
20	F9M41	1515542022	DGB26F22	06/16/2015
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

5B - FORM V SV

SEMIVOLATILE ORGANIC SIM INSTRUMENT PERFORMANCE CHECK DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

EPA SAMPLE NO.: SSTD0.1DG

Lab Name: ALS Environmental Contract: EPW11037

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

Lab File ID: DDG01SP1 DFTPP Injection Date: 03/25/2015

Instrument ID: 5975-D DFTPP Injection Time: 09:26

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
	DFTPP is not required for SIM analysis	

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0.1DG	SSTD0.1DG	DDG01SP1	03/25/2015	09:26
02	SSTD0.2DG	SSTD0.2DG	DDG02SP2	03/25/2015	09:55
03	SSTD0.4DG	SSTD0.4DG	DDG03SP4	03/25/2015	10:25
04	SSTD0.8DG	SSTD0.8DG	DDG04SP8	03/25/2015	10:55
05	SSTD001DG	SSTD001DG	DDG05S01	03/25/2015	11:25
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					

5B - FORM V SV

SEMIVOLATILE ORGANIC SIM INSTRUMENT PERFORMANCE CHECK DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

EPA SAMPLE NO.: SSTD0.4DB

Lab Name: ALS Environmental Contract: EPW11037

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

Lab File ID: DGB01SP4 DFTPP Injection Date: 06/15/2015

Instrument ID: 5975-D DFTPP Injection Time: 15:02

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
	DFTPP is not required for SIM analysis	

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0.4DB	SSTD0.4DB	DGB01SP4	06/15/2015	15:02
02	SBLK93	450193	DGB03BLK	06/15/2015	15:32
03	F9M23	1515542003	DGB07F03	06/15/2015	17:33
04	F9M24	1515542004	DGB08F04	06/15/2015	18:04
05	SSTD0.4D1	SSTD0.4D1	DGB20SP4	06/16/2015	00:01
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.: SSTD0.4D1

Lab Name: ALS Environmental Contract: EPW11037

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

Lab File ID: DGB20SP4 DFTPP Injection Date: 06/16/2015

Instrument ID: 5975-D DFTPP Injection Time: 00:01

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
	DFTPP is not required for SIM analysis	

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0.4D1	SSTD0.4D1	DGB20SP4	06/16/2015	00:01
02	F9M37	1515542018	DGB22F18	06/16/2015	01:00
03	F9M40	1515542021	DGB25F21	06/16/2015	02:28
04	F9M41	1515542022	DGB26F22	06/16/2015	02:58
05	SSTD0.4D2	SSTD0.4D2	DGB27SP4	06/16/2015	03:28
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.: SSTD0.4DN

Lab Name: ALS Environmental Contract: EPW11037

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

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	F9M21	1515542001	DFN03F01	07/16/2015	09:14
03	F9M22	1515542002	DFN04F02	07/16/2015	09:45
04	F9M25	1515542005	DFN05F05	07/16/2015	10:15
05	F9M26	1515542006	DFN06F06	07/16/2015	10:46
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					

5B - FORM V SV

SEMIVOLATILE ORGANIC SIM INSTRUMENT PERFORMANCE CHECK DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

EPA SAMPLE NO.: SSTD0.4N1

Lab Name: ALS Environmental Contract: EPW11037

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

Lab File ID: DFN11SP4 DFTPP Injection Date: 07/16/2015

Instrument ID: 5975-D DFTPP Injection Time: 13:17

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	SSTD0.4N1	SSTD0.4N1	DFN11SP4	07/16/2015	13:17
02	F9M27	1515542007	DFN12F07	07/16/2015	13:48
03	F9M28	1515542010	DFN13F10	07/16/2015	14:18
04	F9M29	1515542011	DFN14F11	07/16/2015	14:48
05	F9M30	1515542012	DFN15F12	07/16/2015	15:18
06	F9M31	1515542013	DFN16F13	07/16/2015	15:49
07	F9M32	1515542014	DFN17F14	07/16/2015	16:19
08	F9M33	1515542015	DFN18F15	07/16/2015	16:49
09	F9M34	1515542016	DFN19F16	07/16/2015	17:19
10	F9M35	1515542017	DFN20F17	07/16/2015	17:50
11	F9M38	1515542019	DFN21F19	07/16/2015	18:20
12	F9M39	1515542020	DFN22F20	07/16/2015	18:50
13	SSTD0.4N2	SSTD0.4N2	DFN23SP4	07/16/2015	19:20
14					
15					
16					
17					
18					
19					
20					
21					

8E - FORM VIII SV-SIM1

SEMIVOLATILE SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

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

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4DB Date Analyzed: 06/15/2015

Lab File ID (Standard): DGB01SP4 Time Analyzed: 15:02

Instrument ID: 5975-D

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD					236119		6.06		152944		8.72	
	UPPER LIMIT					472238		6.56		305888		9.22	
	LOWER LIMIT					118060		5.56		76472		8.22	
	EPA SAMPLE NO.												
01	SBLK93					187221		6.06		137158		8.72	
02	F9M23					239016		6.06		158307		8.72	
03	F9M24					237413		6.06		153813		8.72	
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.

8F - FORM VIII SV-SIM2

SEMIVOLATILE SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

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

EPA Sample No.(SSTD0.4##): SSTD0.4DB Date Analyzed: 06/15/2015

Lab File ID (Standard): DGB01SP4 Time Analyzed: 15:02

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	272281	11.36	295425	15.51	272680	18.01
	UPPER LIMIT	544562	11.86	590850	16.01	545360	18.51
	LOWER LIMIT	136141	10.86	147713	15.01	136340	17.51
	EPA SAMPLE NO.						
01	SBLK93	237916	11.36	246266	15.51	264194	18.00
02	F9M23	284997	11.36	326676	15.51	308058	18.01
03	F9M24	279942	11.36	311018	15.51	305426	18.00
04							
05							
06							
07							
08							
09							
10							
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12							
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19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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

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

8E - FORM VIII SV-SIM1

SEMIVOLATILE SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

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

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4D1 Date Analyzed: 06/16/2015

Lab File ID (Standard): DGB20SP4 Time Analyzed: 00:01

Instrument ID: 5975-D

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD					212362		6.06		134800		8.72	
	UPPER LIMIT					424724		6.56		269600		9.22	
	LOWER LIMIT					106181		5.56		67400		8.22	
	EPA SAMPLE NO.												
01	F9M37					186946		6.06		119323		8.72	
02	F9M40					206775		6.06		133686		8.72	
03	F9M41					213497		6.06		155473		8.72	
04													
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07													
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21													
22													

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

8F - FORM VIII SV-SIM2

SEMIVOLATILE SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

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

EPA Sample No.(SSTD0.4##): SSTD0.4D1 Date Analyzed: 06/16/2015

Lab File ID (Standard): DGB20SP4 Time Analyzed: 00:01

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

		IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	240084		11.35		259737		15.51		253922		18.00	
	UPPER LIMIT	480168		11.85		519474		16.01		507844		18.50	
	LOWER LIMIT	120042		10.85		129869		15.01		126961		17.50	
	EPA SAMPLE NO.												
01	F9M37	209492		11.35		226056		15.51		217200		18.00	
02	F9M40	236964		11.35		265502		15.51		257766		17.99	
03	F9M41	308791		11.35		319966		15.51		311473		17.99	
04													
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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.

8E - FORM VIII SV-SIM1

SEMIVOLATILE SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

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

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4DN 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	F9M21					181716		5.77		124624		8.38	
02	F9M22					179035		5.77		119730		8.38	
03	F9M25					175669		5.77		119782		8.38	
04	F9M26					178293		5.78		121240		8.38	
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21													
22													

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

8F - FORM VIII SV-SIM2

SEMIVOLATILE SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

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

EPA Sample No.(SSTD0.4##): SSTD0.4DN 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	F9M21	205862		10.99		242440		15.21		259646		17.47	
02	F9M22	201571		10.99		227431		15.21		235389		17.47	
03	F9M25	198971		10.99		233674		15.21		258188		17.47	
04	F9M26	201579		11.00		239004		15.21		268283		17.48	
05													
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21													
22													

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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

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

8E - FORM VIII SV-SIM1

SEMIVOLATILE SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

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

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4N1 Date Analyzed: 07/16/2015

Lab File ID (Standard): DFN11SP4 Time Analyzed: 13:17

Instrument ID: 5975-D

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD					215942		5.78		138233		8.38	
	UPPER LIMIT					431884		6.28		276466		8.88	
	LOWER LIMIT					107971		5.28		69117		7.88	
	EPA SAMPLE NO.												
01	F9M27					174650		5.78		121536		8.38	
02	F9M28					177196		5.77		128050		8.38	
03	F9M29					176990		5.78		125428		8.38	
04	F9M30					165740		5.78		120506		8.38	
05	F9M31					175919		5.78		131642		8.38	
06	F9M32					167793		5.78		115135		8.38	
07	F9M33					212983		5.78		153562		8.38	
08	F9M34					167388		5.78		115080		8.38	
09	F9M35					163099		5.78		108565		8.38	
10	F9M38					172048		5.78		125207		8.38	
11	F9M39					153255		5.78		111766		8.38	
12													
13													
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17													
18													
19													
20													
21													
22													

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

8F - FORM VIII SV-SIM2

SEMIVOLATILE SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

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

EPA Sample No.(SSTD0.4##): SSTD0.4N1 Date Analyzed: 07/16/2015

Lab File ID (Standard): DFN11SP4 Time Analyzed: 13:17

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	249965		11.00		288289		15.21		286468		17.47	
	UPPER LIMIT	499930		11.50		576578		15.71		572936		17.97	
	LOWER LIMIT	124983		10.50		144145		14.71		143234		16.97	
	EPA SAMPLE NO.												
01	F9M27	197128		11.00		220702		15.21		239667		17.47	
02	F9M28	204606		10.99		233227		15.21		252204		17.48	
03	F9M29	201098		11.00		226784		15.21		260399		17.47	
04	F9M30	192449		10.99		216141		15.21		247966		17.47	
05	F9M31	210653		10.99		239901		15.21		259795		17.48	
06	F9M32	193808		10.99		228172		15.21		244162		17.48	
07	F9M33	248666		10.99		283486		15.21		302827		17.48	
08	F9M34	193409		10.99		222540		15.21		233252		17.48	
09	F9M35	186087		10.99		209503		15.21		219175		17.47	
10	F9M38	200117		11.00		232468		15.21		244206		17.48	
11	F9M39	181157		11.00		207573		15.21		220249		17.48	
12													
13													
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18													
19													
20													
21													
22													

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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

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

1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M21

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DFN03F01

Extraction: (Type) SONC

% Moisture: 18. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/16/2015

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 2.0

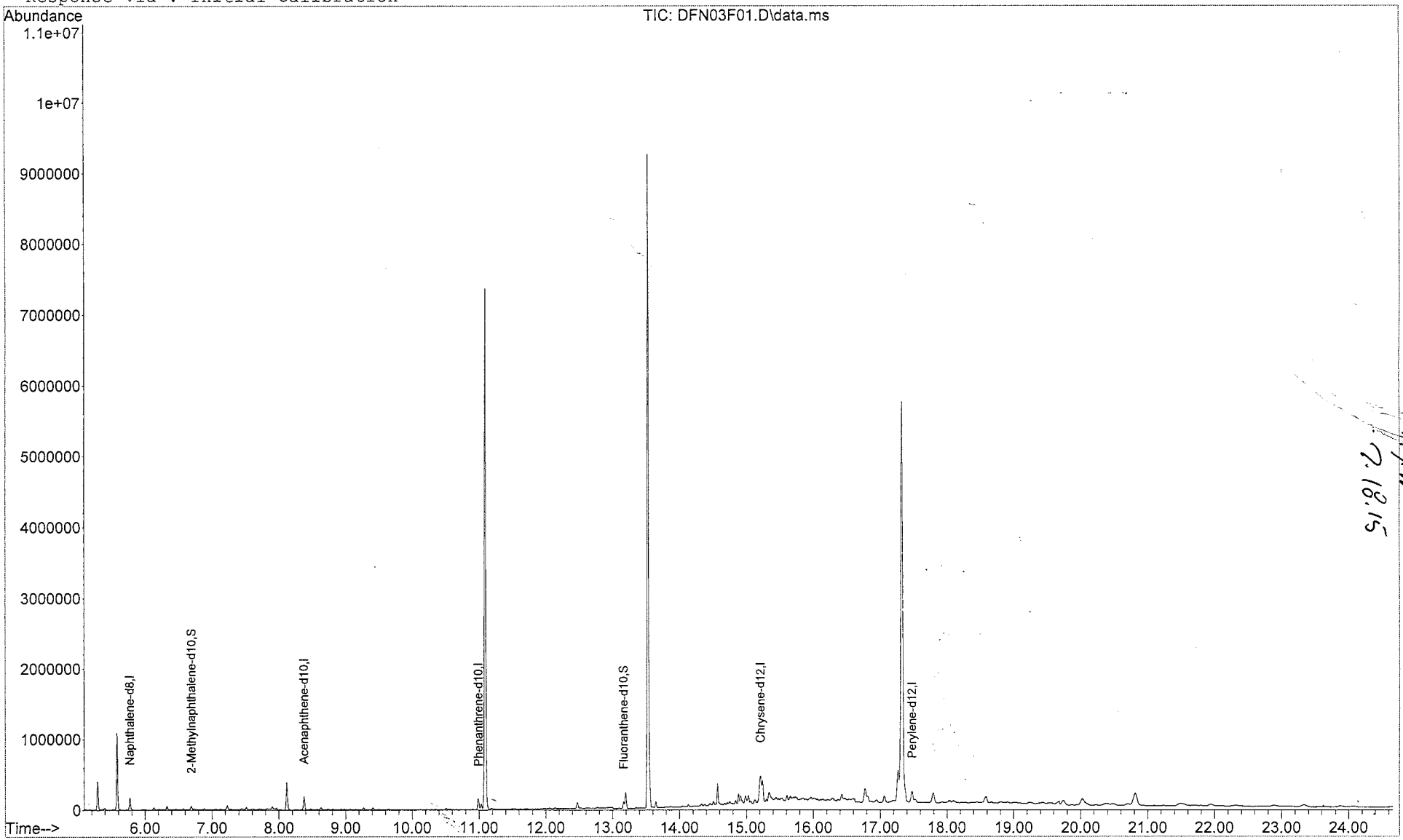
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	8.1	U
91-57-6	2-Methylnaphthalene	1.7	J
208-96-8	Acenaphthylene	2.5	J
83-32-9	Acenaphthene	8.1	U
86-73-7	Fluorene	8.1	U
87-86-5	Pentachlorophenol	16.	U
85-01-8	Phenanthrene	9.6	
120-12-7	Anthracene	6.3	J
206-44-0	Fluoranthene	21.	
129-00-0	Pyrene	32.	
56-55-3	Benzo(a)anthracene	20.	
218-01-9	Chrysene	29.	
205-99-2	Benzo(b)fluoranthene	26.	
207-08-9	Benzo(k)fluoranthene	6.2	J
50-32-8	Benzo(a)pyrene	20.	
193-39-5	Indeno(1,2,3-cd)pyrene	27.	
53-70-3	Dibenzo(a,h)anthracene	6.9	J
191-24-2	Benzo(g,h,i)perylene	46.	

Quantitation Report

Data File : R:\D\2015\JUL15\16JUL15DPM\DFN03F01.D Vial: 2
Acq On : 07/16/2015 09:14 Operator: DJC
Sample : 1515542001 F9M21 (2) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jul 18 12:23:25 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



7.18.15

Quantitation Report

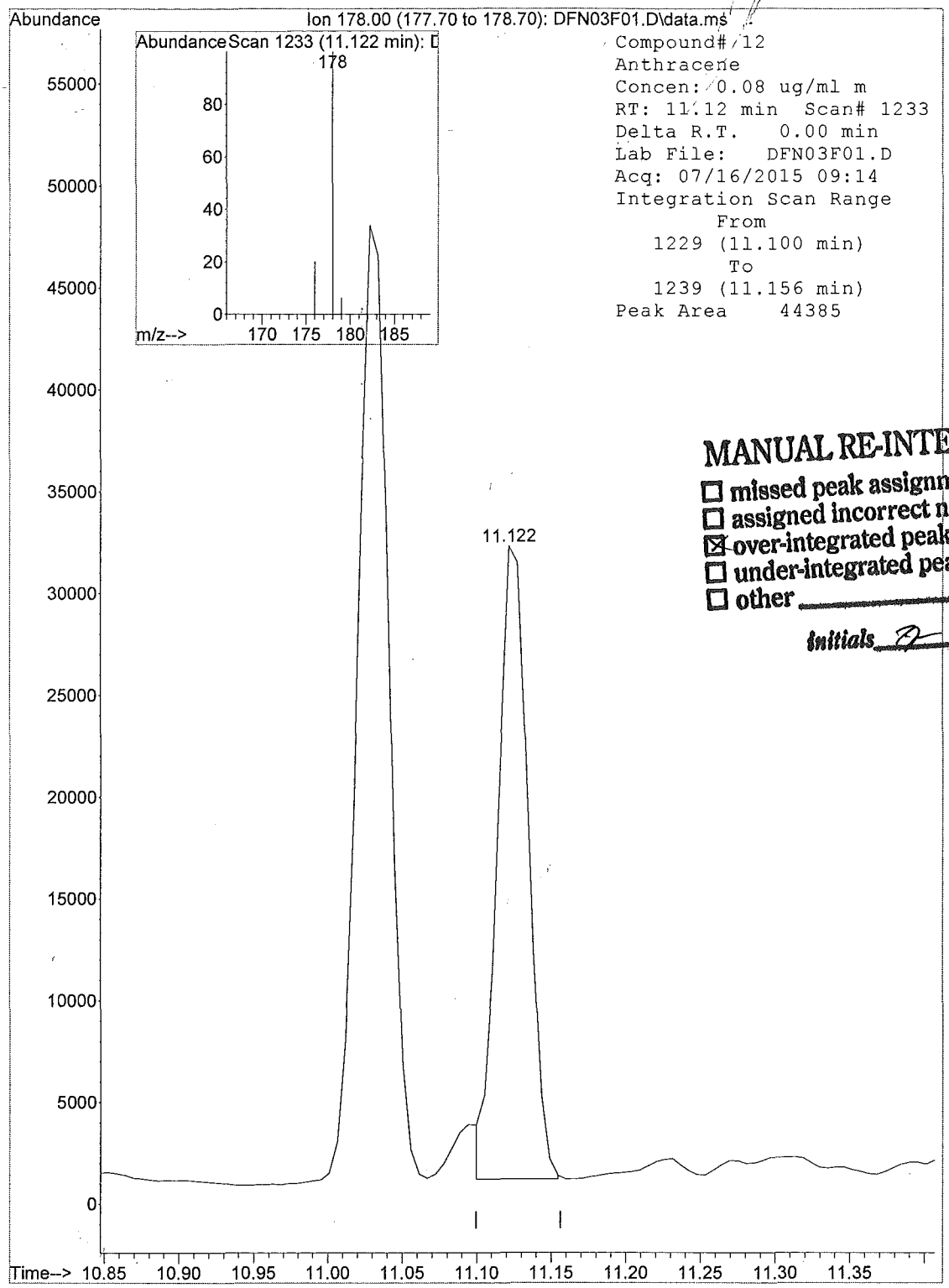
Data File : R:\D\2015\JUL15\16JUL15DPM\DFN03F01.D Vial: 2
Acq On : 07/16/2015 09:14 Operator: DJC
Sample : 1515542001 F9M21 (2) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 18 12:23:25 2015 Results File: DSOM_SIMJ2.RES

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		Qvalue
1) Naphthalene-d8	5.77	136	181716	0.40 ug/ml		
5) Acenaphthene-d10	8.38	164	124624	0.40 ug/ml		
9) Phenanthrene-d10	10.99	188	205862	0.40 ug/ml		
15) Chrysene-d12	15.21	240	242440	0.40 ug/ml		
19) Perylene-d12	17.47	264	259646	0.40 ug/ml		
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	6.69	152	50908	0.174ug/mL		
13) Fluoranthene-d10	13.16	212	106821	0.190ug/mL		
Target Compounds						Qvalue
2) Naphthalene	0.00	128		Not Detected		
4) 2-Methylnaphthalene	6.74	142	6495	0.021ug/ml		98
6) Acenaphthylene	8.14	152	16888	0.031ug/ml		75
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	70007	0.118ug/ml		97
12) Anthracene	11.12	178	44385	0.077ug/ml	m	99 7.18.15
14) Fluoranthene	13.19	202	176767	0.262ug/ml		94
16) Pyrene	13.55	202	298451	0.392ug/ml		76
17) Benzo(a)anthracene	15.20	228	161704	0.250ug/ml		57
18) Chrysene	15.24	228	246059	0.360ug/ml		29
20) Benzo(b)fluoranthene	16.77	252	260044	0.321ug/ml		96
21) Benzo(k)fluoranthene	16.81	252	64198	0.077ug/ml	m	95 7.18.15
22) Benzo(a)pyrene	17.37	252	193273	0.250ug/ml		92
23) Indeno(1,2,3-c,d)pyrene	20.03	276	220633	0.326ug/ml		100
24) Dibenzo(a,h)anthracene	20.08	278	63033	0.084ug/ml		75
25) Benzo(g,h,i)perylene	20.81	276	431915	0.567ug/ml		72

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

MANUAL INTEGRATION FOR Anthracene

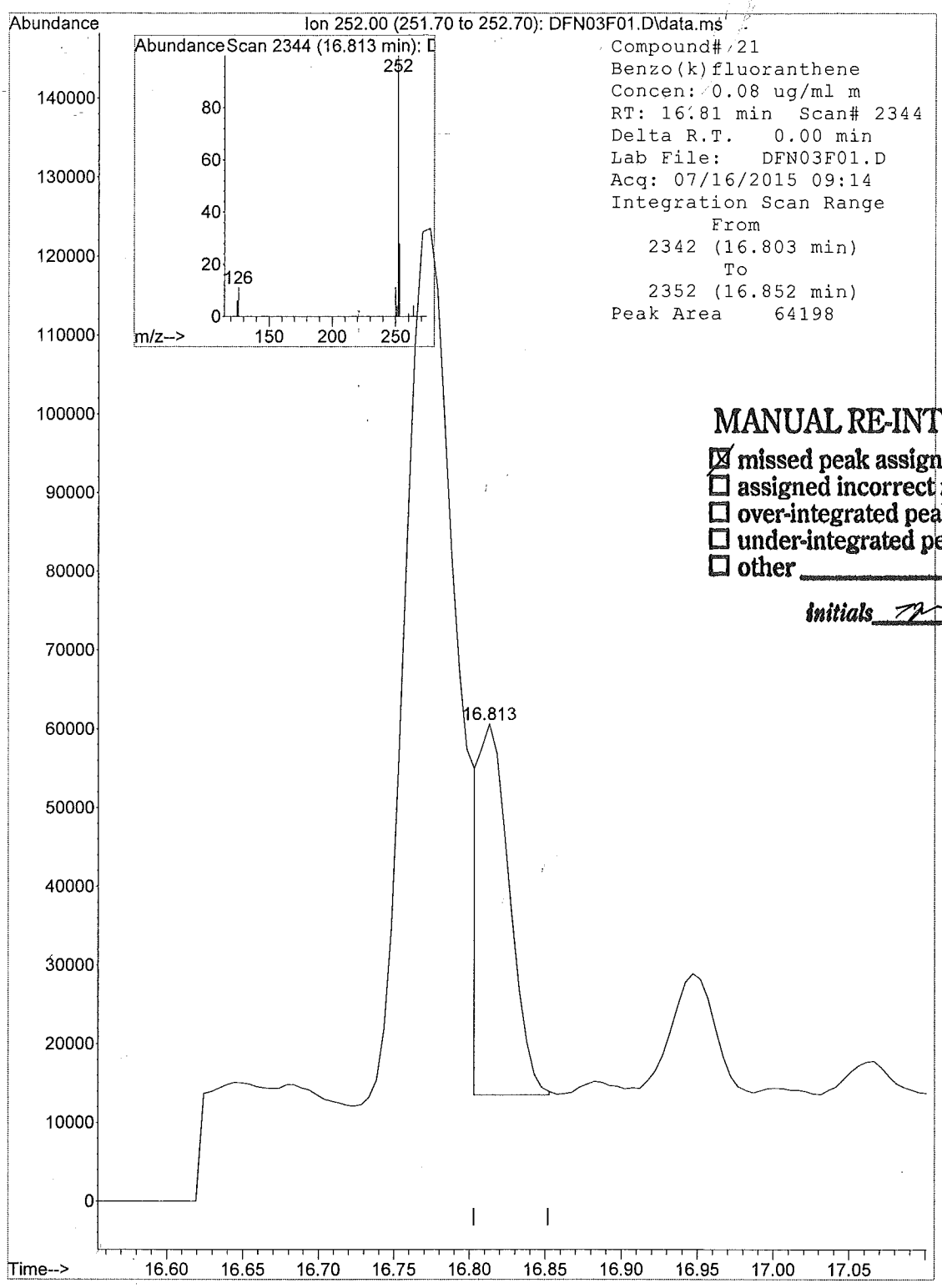


MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☒ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials D *date* 7.18.15

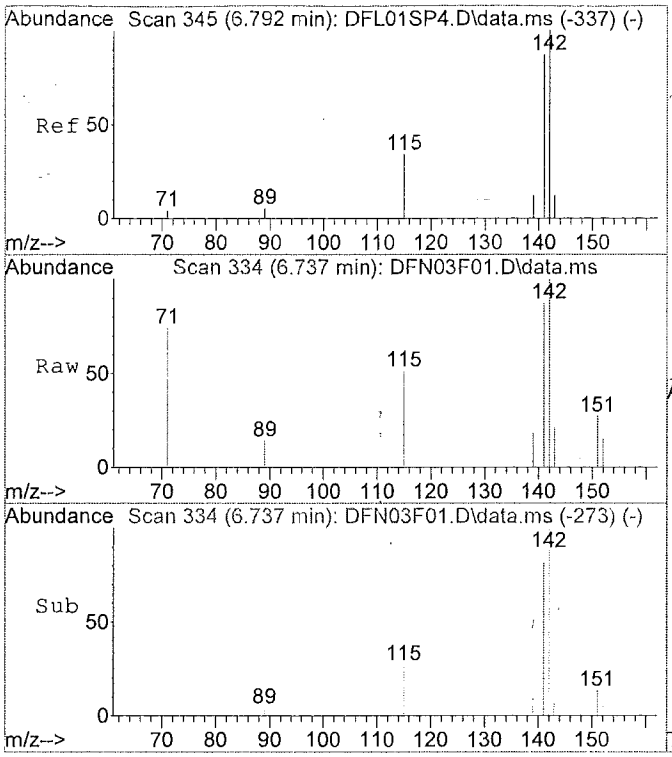
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- ☒ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

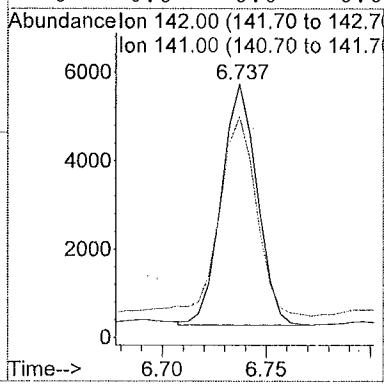
initials ___ *date* 7.18.15

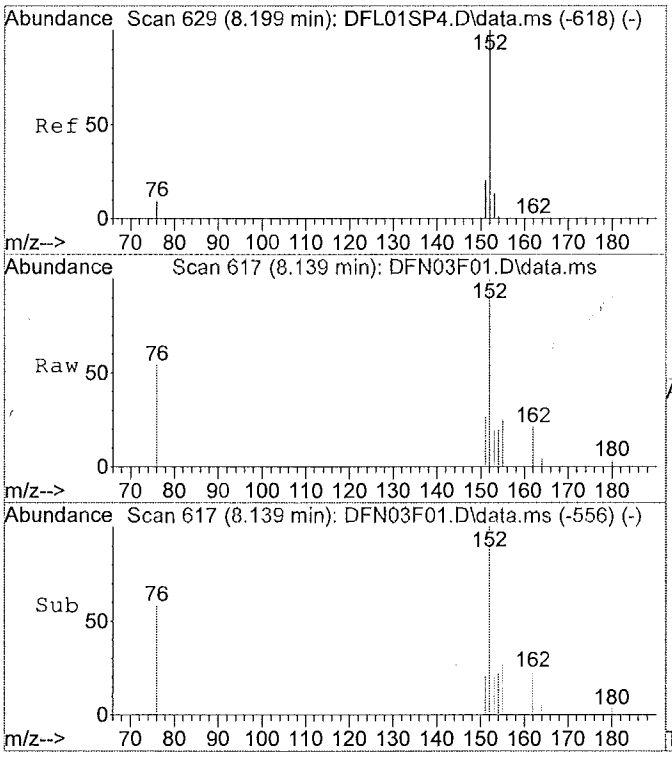


#4
2-Methylnaphthalene
Concen: 0.02 ug/ml
RT: 6.74 min Scan# 334
Delta R.T. 0.00 min
Lab File: DFN03F01.D
Acq: 07/16/2015 09:14

Tgt Ion:142 Resp: 6495

Ion	Ratio	Lower	Upper
142	100		
141	89.4	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

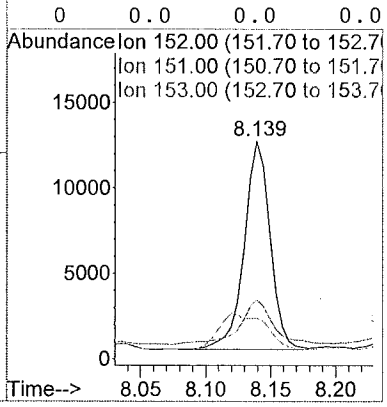


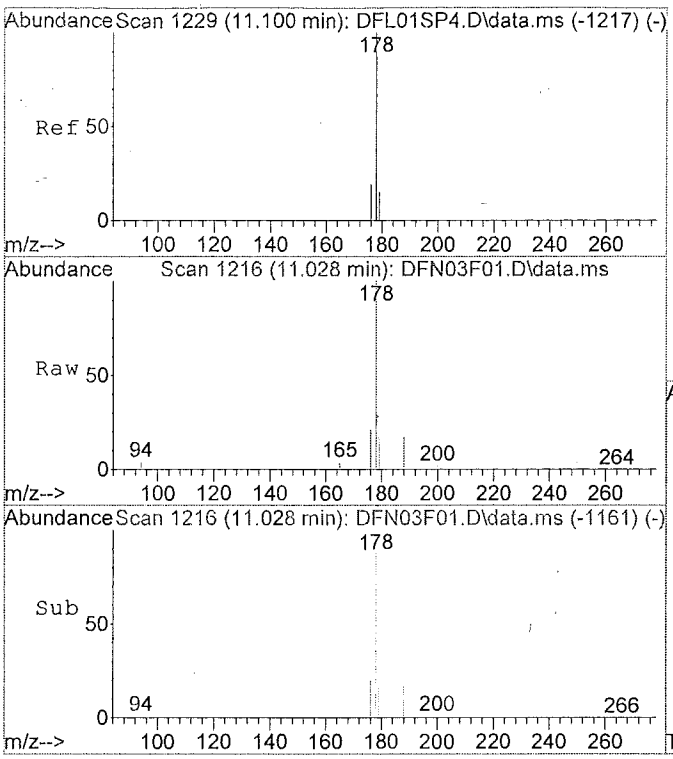


#6
Acenaphthylene
Concen: 0.03 ug/ml
RT: 8.14 min Scan# 617
Delta R.T. 0.00 min
Lab File: DFN03F01.D
Acq: 07/16/2015 09:14

Tgt Ion:152 Resp: 16888

Ion	Ratio	Lower	Upper
152	100		
151	27.6	15.5	28.7
153	31.6	8.8	16.4#
0	0.0	0.0	0.0

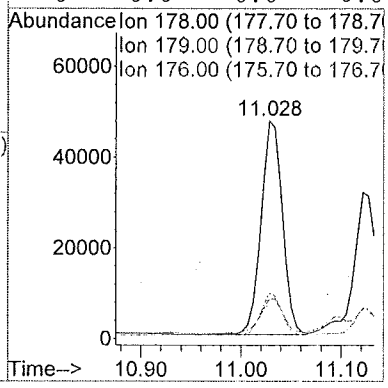


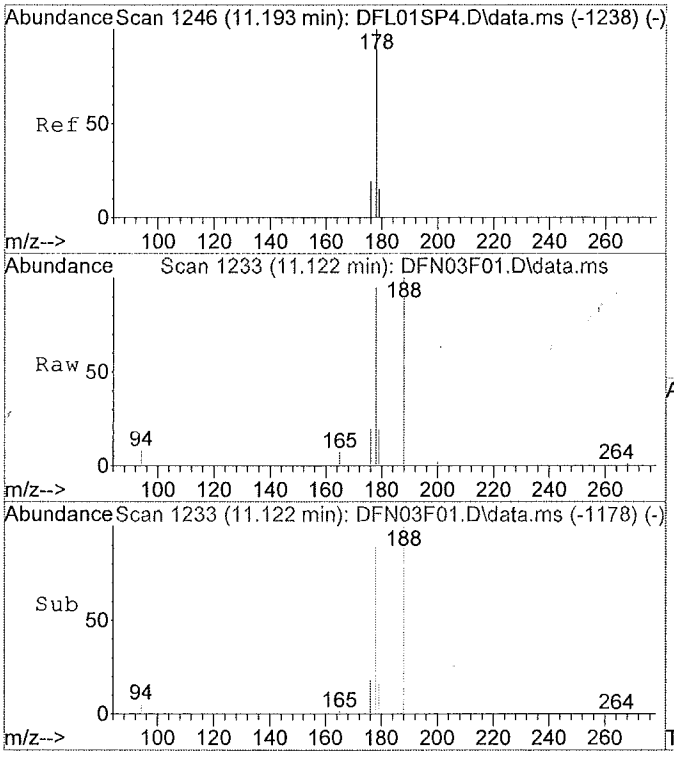


#11
Phenanthrene
Concen: 0.12 ug/ml
RT: 11.03 min Scan# 1216
Delta R.T. 0.00 min
Lab File: DFN03F01.D
Acq: 07/16/2015 09:14

Tgt Ion:178 Resp: 70007

Ion	Ratio	Lower	Upper
178	100		
179	18.1	11.1	20.5
176	20.2	14.1	26.1
0	0.0	0.0	0.0

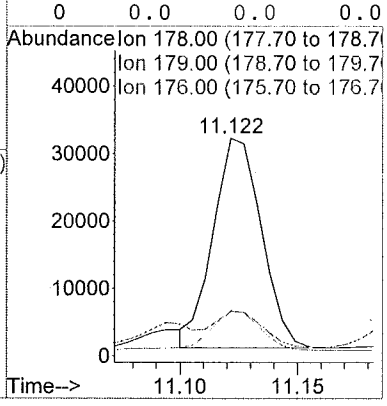


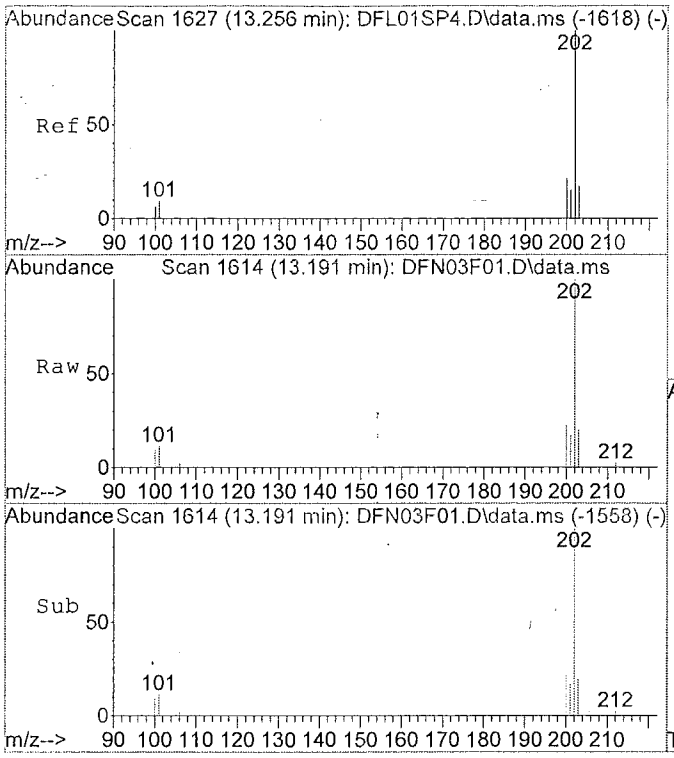


#12
Anthracene
Concen: 0.08 ug/ml m
RT: 11.12 min Scan# 1233
Delta R.T. 0.00 min
Lab File: DFN03F01.D
Acq: 07/16/2015 09:14

Tgt Ion:178 Resp: 44385

Ion	Ratio	Lower	Upper
178	100		
179	17.9	11.6	21.6
176	20.7	13.9	25.7
0	0.0	0.0	0.0

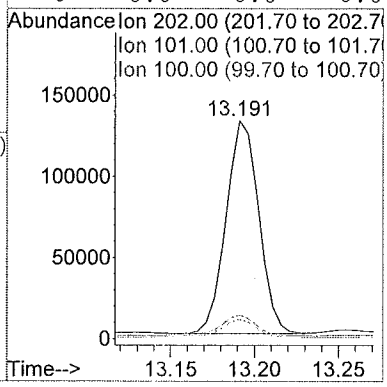


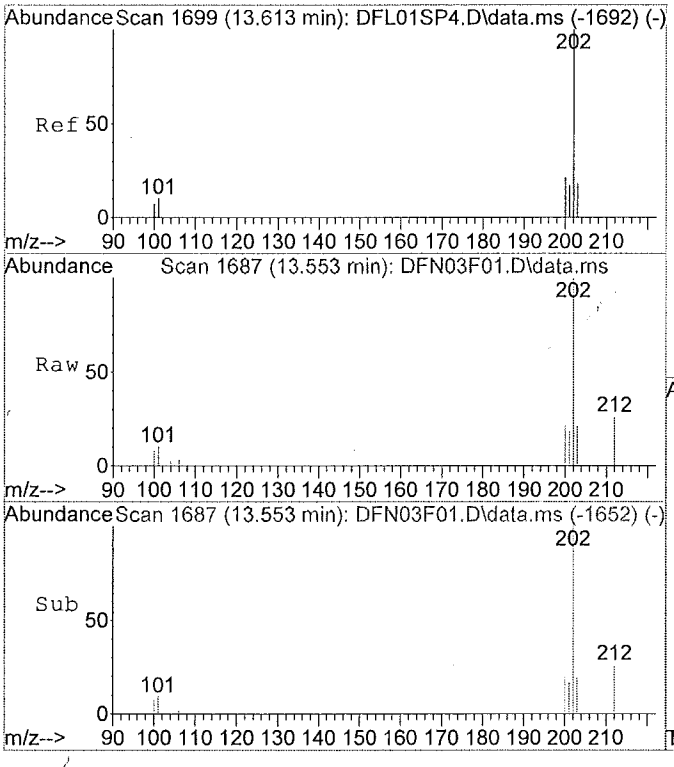


#14
Fluoranthene
Concen: 0.26 ug/ml
RT: 13.19 min Scan# 1614
Delta R.T. 0.00 min
Lab File: DFN03F01.D
Acq: 07/16/2015 09:14

Tgt Ion:202 Resp: 176767

Ion	Ratio	Lower	Upper
202	100		
101	10.9	9.4	17.6
100	9.5	0.0	0.0#
0	0.0	0.0	0.0

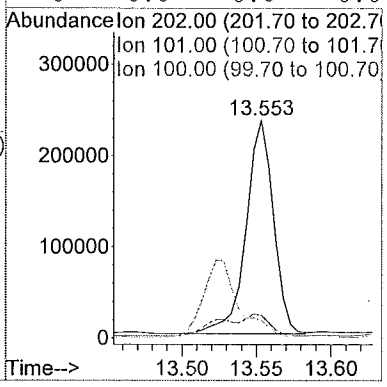


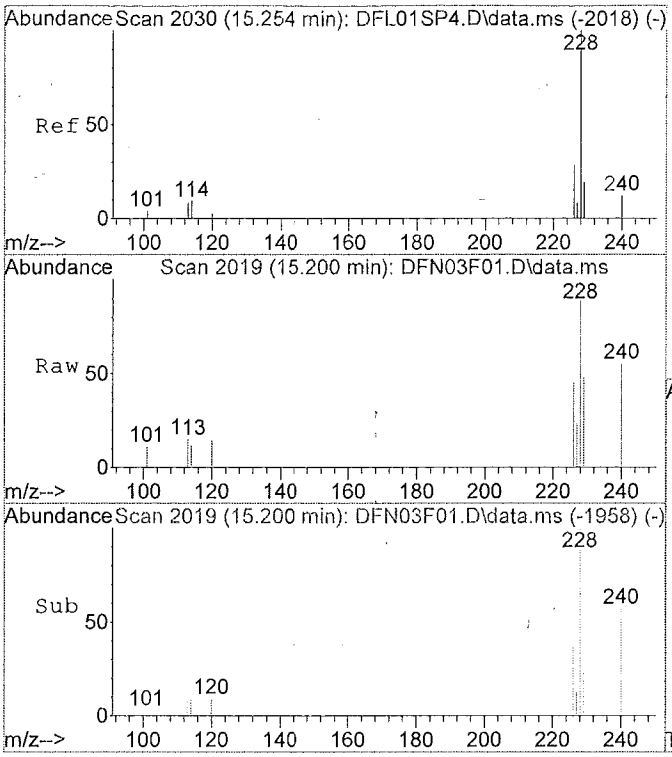


#16
Pyrene
Concen: 0.39 ug/ml
RT: 13.55 min Scan# 1687
Delta R.T. 0.01 min
Lab File: DFN03F01.D
Acq: 07/16/2015 09:14

Tgt Ion:202 Resp: 298451

Ion	Ratio	Lower	Upper
202	100		
101	8.9	10.6	19.6#
100	0.0	9.4	17.4#
0	0.0	0.0	0.0

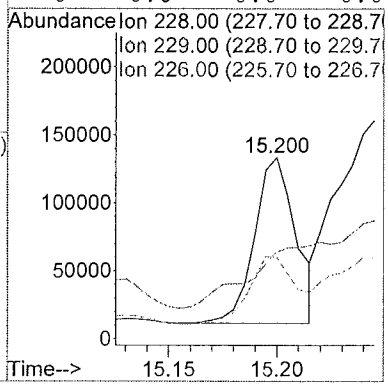


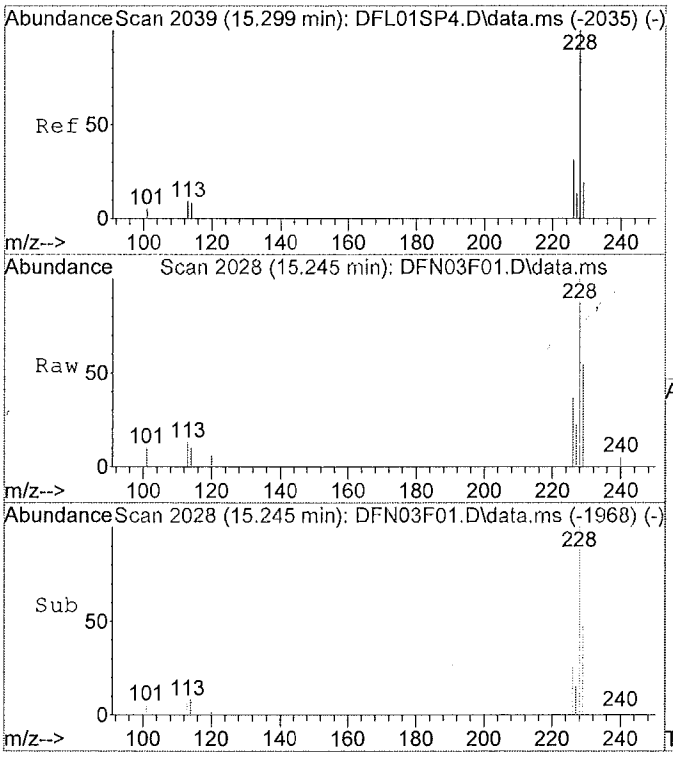


#17
Benzo(a)anthracene
Concen: 0.25 ug/ml
RT: 15.20 min Scan# 2019
Delta R.T. 0.01 min
Lab File: DFN03F01.D
Acq: 07/16/2015 09:14

Tgt Ion:228 Resp: 161704

Ion	Ratio	Lower	Upper
228	100		
229	0.0	14.5	26.9#
226	47.9	18.5	34.3#
0	0.0	0.0	0.0

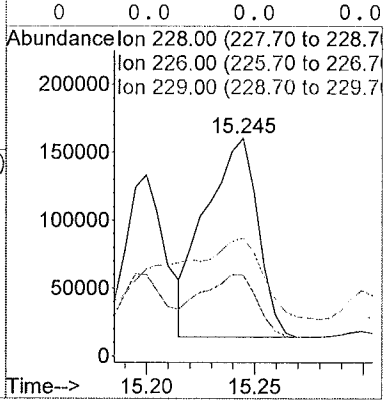


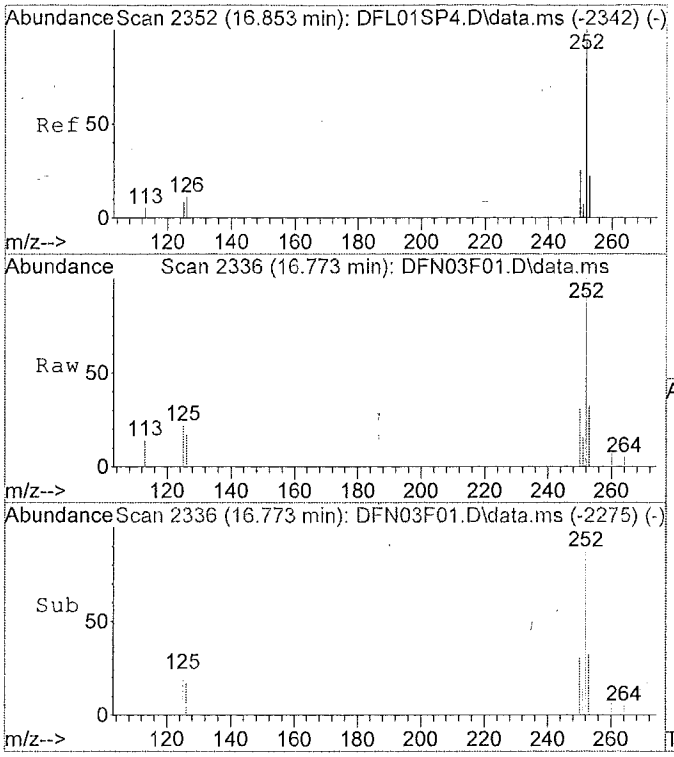


#18
Chrysene
Concen: 0.36 ug/ml
RT: 15.24 min Scan# 2028
Delta R.T. 0.00 min
Lab File: DFN03F01.D
Acq: 07/16/2015 09:14

Tgt Ion:228 Resp: 246059

Ion	Ratio	Lower	Upper
228	100		
226	33.5	19.7	36.7
229	92.9	14.5	26.9#
0	0.0	0.0	0.0

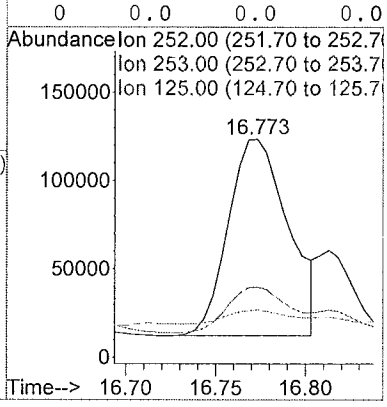


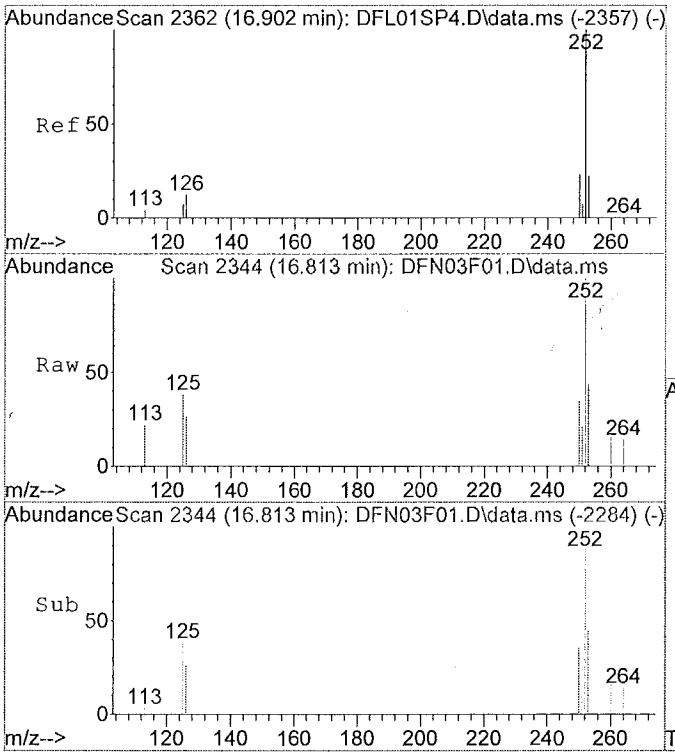


#20
Benzo(b)fluoranthene
Concen: 0.32 ug/ml
RT: 16.77 min Scan# 2336
Delta R.T. 0.01 min
Lab File: DFN03F01.D
Acq: 07/16/2015 09:14

Tgt Ion:252 Resp: 260044

Ion	Ratio	Lower	Upper
252	100		
253	23.5	15.3	28.3
125	0.0	0.0	0.0
0	0.0	0.0	0.0

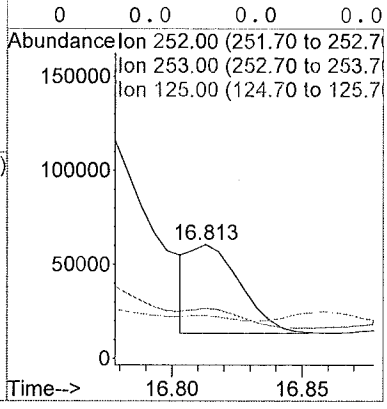


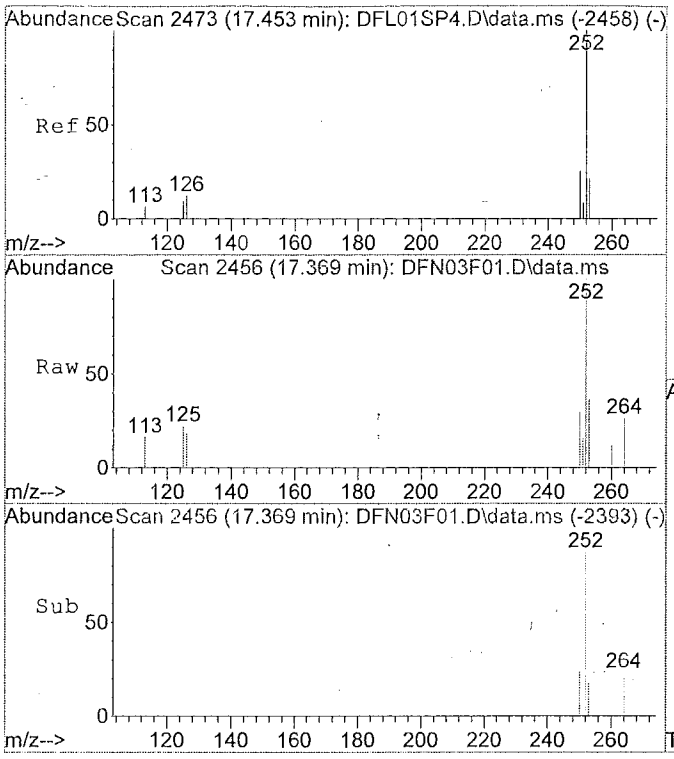


#21
Benzo(k)fluoranthene
Concen: 0.08 ug/ml m
RT: 16.81 min Scan# 2344
Delta R.T. 0.00 min
Lab File: DFN03F01.D
Acq: 07/16/2015 09:14

Tgt Ion:252 Resp: 64198

Ion	Ratio	Lower	Upper
252	100		
253	95.4	15.0	27.8#
125	0.0	0.0	0.0
0	0.0	0.0	0.0

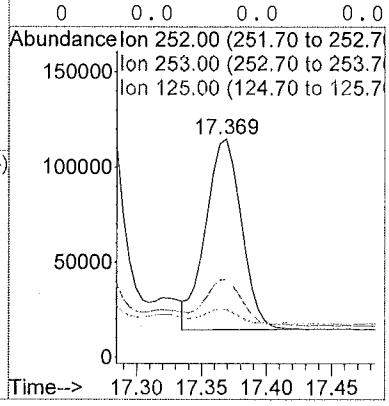


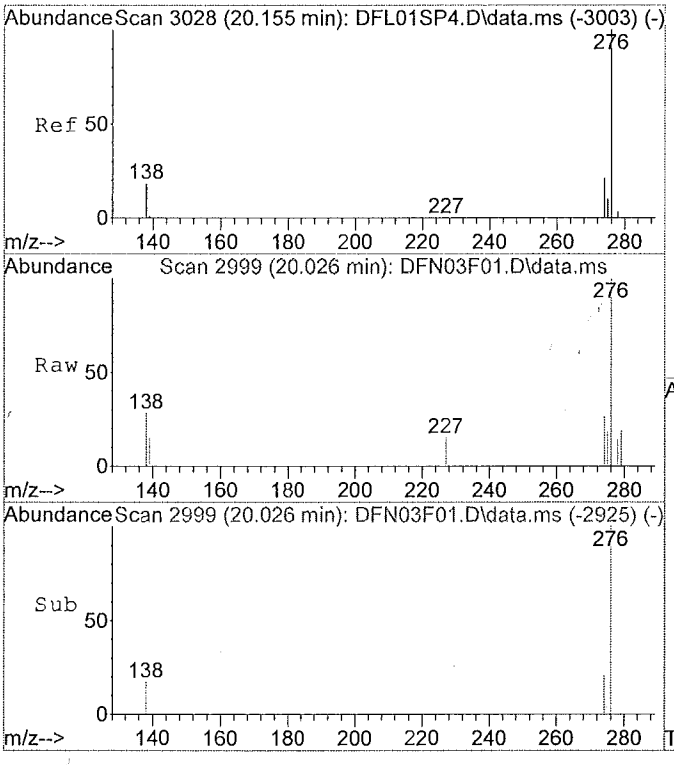


#22
Benzo(a)pyrene
Concen: 0.25 ug/ml
RT: 17.37 min Scan# 2456
Delta R.T. 0.01 min
Lab File: DFN03F01.D
Acq: 07/16/2015 09:14

Tgt Ion:252 Resp: 193273

Ion	Ratio	Lower	Upper
252	100		
253	25.1	15.0	27.8
125	7.2	0.0	0.0#
0	0.0	0.0	0.0

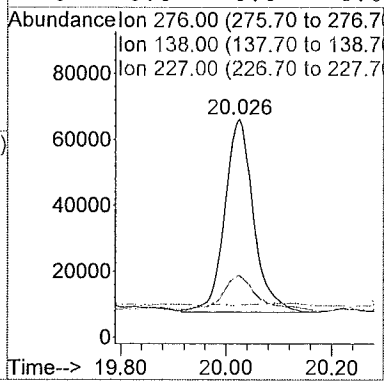


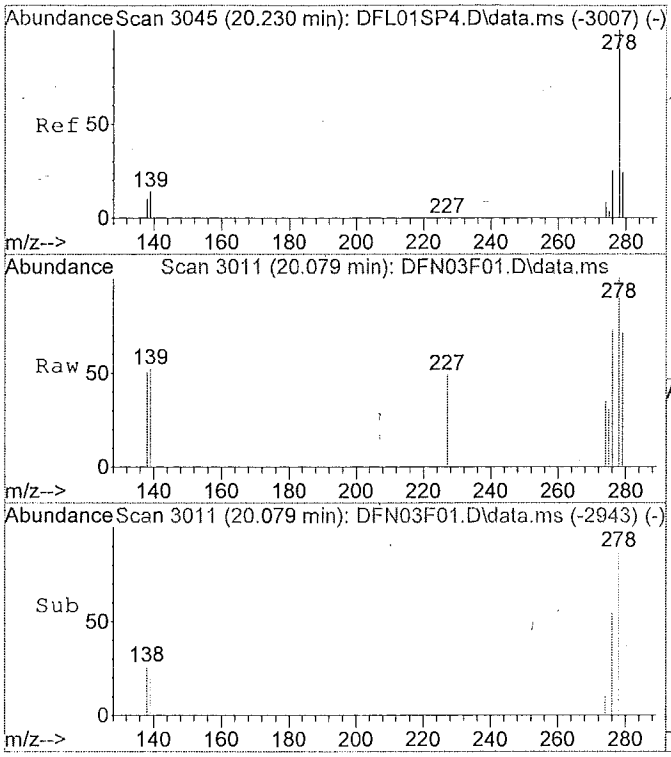


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.33 ug/ml
RT: 20.03 min Scan# 2999
Delta R.T. 0.03 min
Lab File: DFN03F01.D
Acq: 07/16/2015 09:14

Tgt Ion:276 Resp: 220633

Ion	Ratio	Lower	Upper
276	100		
138	18.9	0.0	0.0#
227	0.3	0.0	0.0#
0	0.0	0.0	0.0

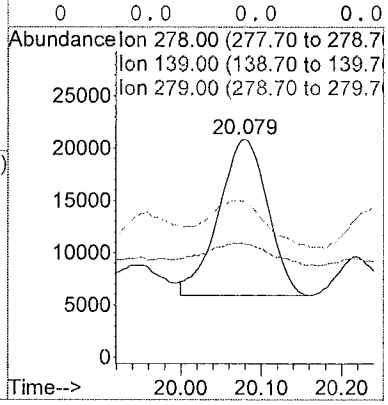


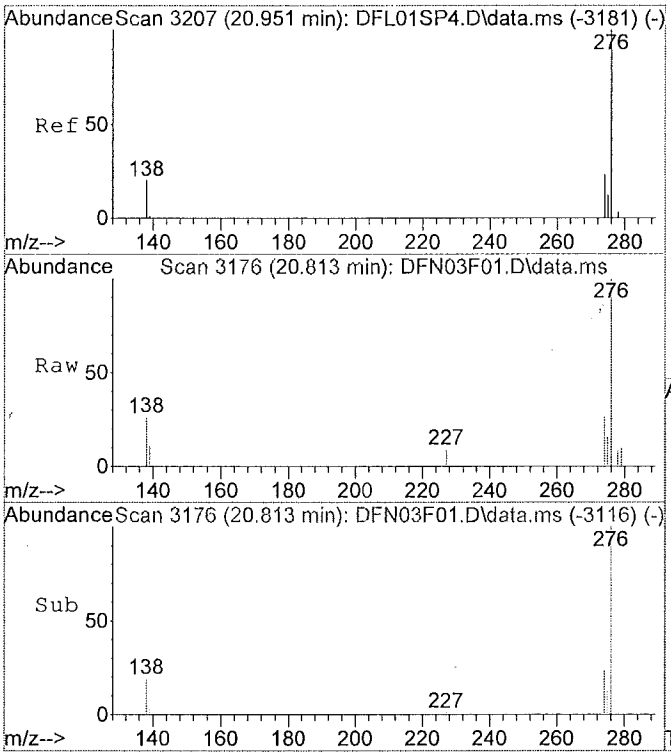


#24
Dibenzo(a,h)anthracene
Concen: 0.08 ug/ml
RT: 20.08 min Scan# 3011
Delta R.T. 0.00 min
Lab File: DFN03F01.D
Acq: 07/16/2015 09:14

Tgt Ion:278 Resp: 63033

Ion	Ratio	Lower	Upper
278	100		
139	19.0	0.0	0.0#
279	34.4	15.8	29.3#
0	0.0	0.0	0.0

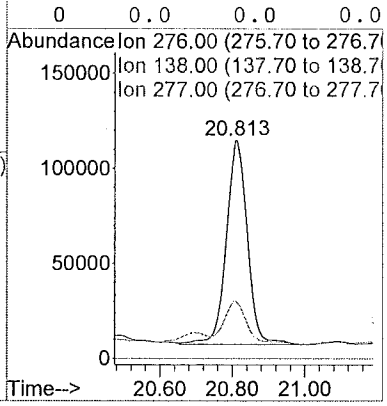




#25
Benzo(g,h,i)perylene
Concen: 0.57 ug/ml
RT: 20.81 min Scan# 3176
Delta R.T. 0.04 min
Lab File: DFN03F01.D
Acq: 07/16/2015 09:14

Tgt Ion:276 Resp: 431915

Ion	Ratio	Lower	Upper
276	100		
138	19.3	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.

F9M22

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DFN04F02

Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/16/2015

GPC Cleanup: (Y/N) Y pH: 8.1 Dilution Factor: 2.0

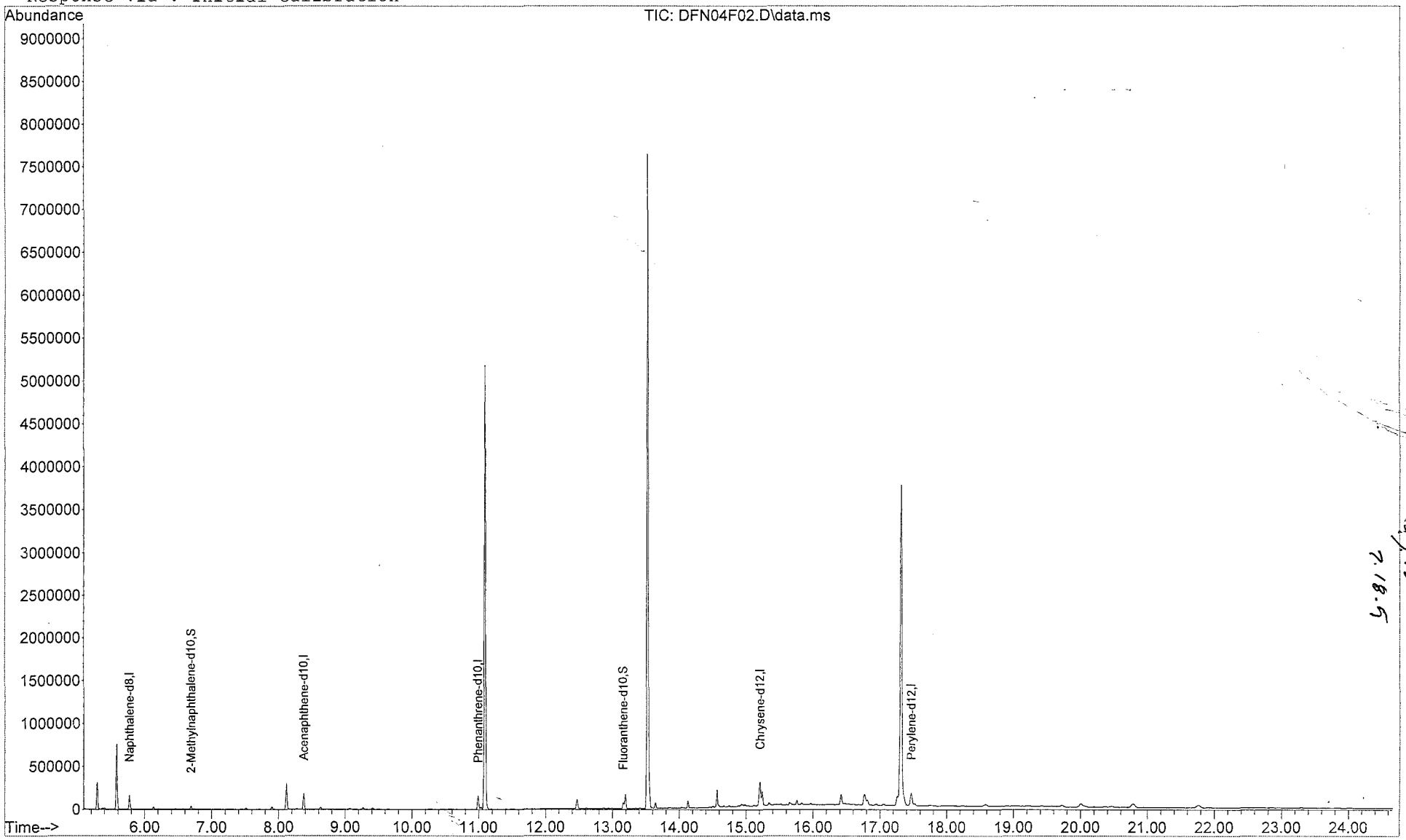
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	7.5	U
91-57-6	2-Methylnaphthalene	7.5	U
208-96-8	Acenaphthylene	7.5	U
83-32-9	Acenaphthene	7.5	U
86-73-7	Fluorene	7.5	U
87-86-5	Pentachlorophenol	15.	U
85-01-8	Phenanthrene	3.2	J
120-12-7	Anthracene	3.3	J
206-44-0	Fluoranthene	16.	
129-00-0	Pyrene	18.	
56-55-3	Benzo(a)anthracene	13.	
218-01-9	Chrysene	15.	
205-99-2	Benzo(b)fluoranthene	16.	
207-08-9	Benzo(k)fluoranthene	4.9	J
50-32-8	Benzo(a)pyrene	8.9	
193-39-5	Indeno(1,2,3-cd)pyrene	11.	
53-70-3	Dibenzo(a,h)anthracene	2.8	J
191-24-2	Benzo(g,h,i)perylene	10.	

Quantitation Report

Data File : R:\D\2015\JUL15\16JUL15DPM\DFN04F02.D Vial: 3
Acq On : 07/16/2015 09:45 Operator: DJC
Sample : 1515542002 F9M22 (2) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jul 18 12:24:15 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



Quantitation Report

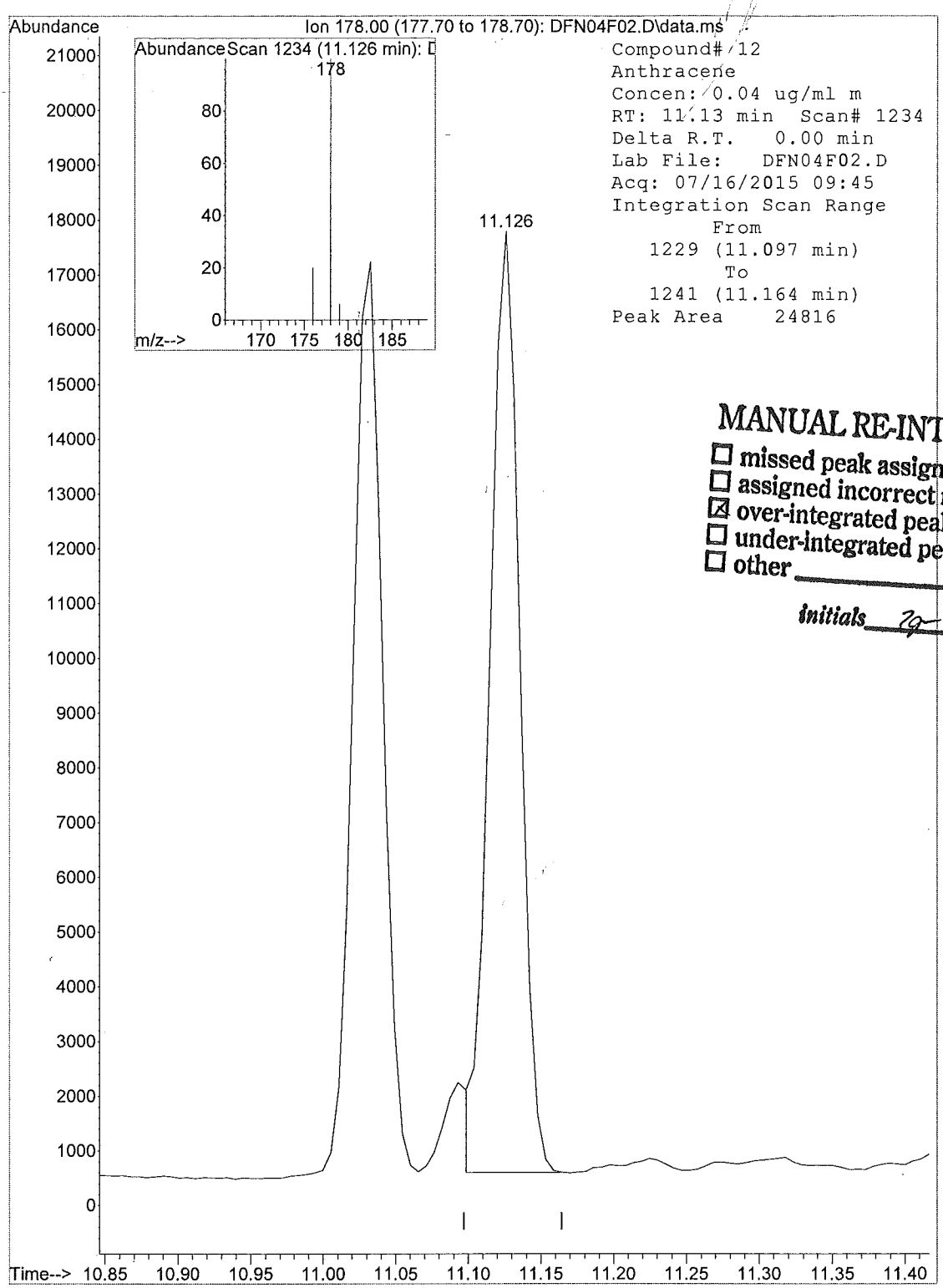
Data File : R:\D\2015\JUL15\16JUL15DPM\DFN04F02.D Vial: 3
Acq On : 07/16/2015 09:45 Operator: DJC
Sample : 1515542002 F9M22 (2) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 18 12:24:15 2015 Results File: DSOM_SIMJ2.RES

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	5.77	136	179035	0.40	ug/ml		
5) Acenaphthene-d10	8.38	164	119730	0.40	ug/ml		
9) Phenanthrene-d10	10.99	188	201571	0.40	ug/ml		
15) Chrysene-d12	15.21	240	227431	0.40	ug/ml		
19) Perylene-d12	17.47	264	235389	0.40	ug/ml		
System Monitoring Compounds							
3) 2-Methylnaphthalene-d10	6.69	152	38240	0.132	ug/mL		
13) Fluoranthene-d10	13.16	212	81868	0.149	ug/mL		
Target Compounds							Qvalue
2) Naphthalene	0.00	128		Not Detected			
4) 2-Methylnaphthalene	0.00	142		Not Detected			
6) Acenaphthylene	0.00	152		Not Detected			
7) Acenaphthene	0.00	153		Not Detected			
8) Fluorene	0.00	166		Not Detected			
10) Pentachlorophenol	0.00	266		Not Detected			
11) Phenanthrene	11.03	178	24090	0.042	ug/ml		96
12) Anthracene	11.13	178	24816	0.044	ug/ml	m	97 7.18.15
14) Fluoranthene	13.19	202	136299	0.206	ug/ml		91
16) Pyrene	13.55	202	170941	0.240	ug/ml		41
17) Benzo(a)anthracene	15.20	228	104353	0.172	ug/ml		87
18) Chrysene	15.24	228	126846	0.198	ug/ml		93
20) Benzo(b)fluoranthene	16.77	252	152865	0.208	ug/ml		100
21) Benzo(k)fluoranthene	16.81	252	48992	0.064	ug/ml	m	99 7.18.15
22) Benzo(a)pyrene	17.36	252	82555	0.118	ug/ml		96
23) Indeno(1,2,3-c,d)pyrene	20.01	276	89070	0.145	ug/ml		100
24) Dibenzo(a,h)anthracene	20.06	278	25236	0.037	ug/ml		90
25) Benzo(g,h,i)perylene	20.79	276	93363	0.135	ug/ml		72

(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

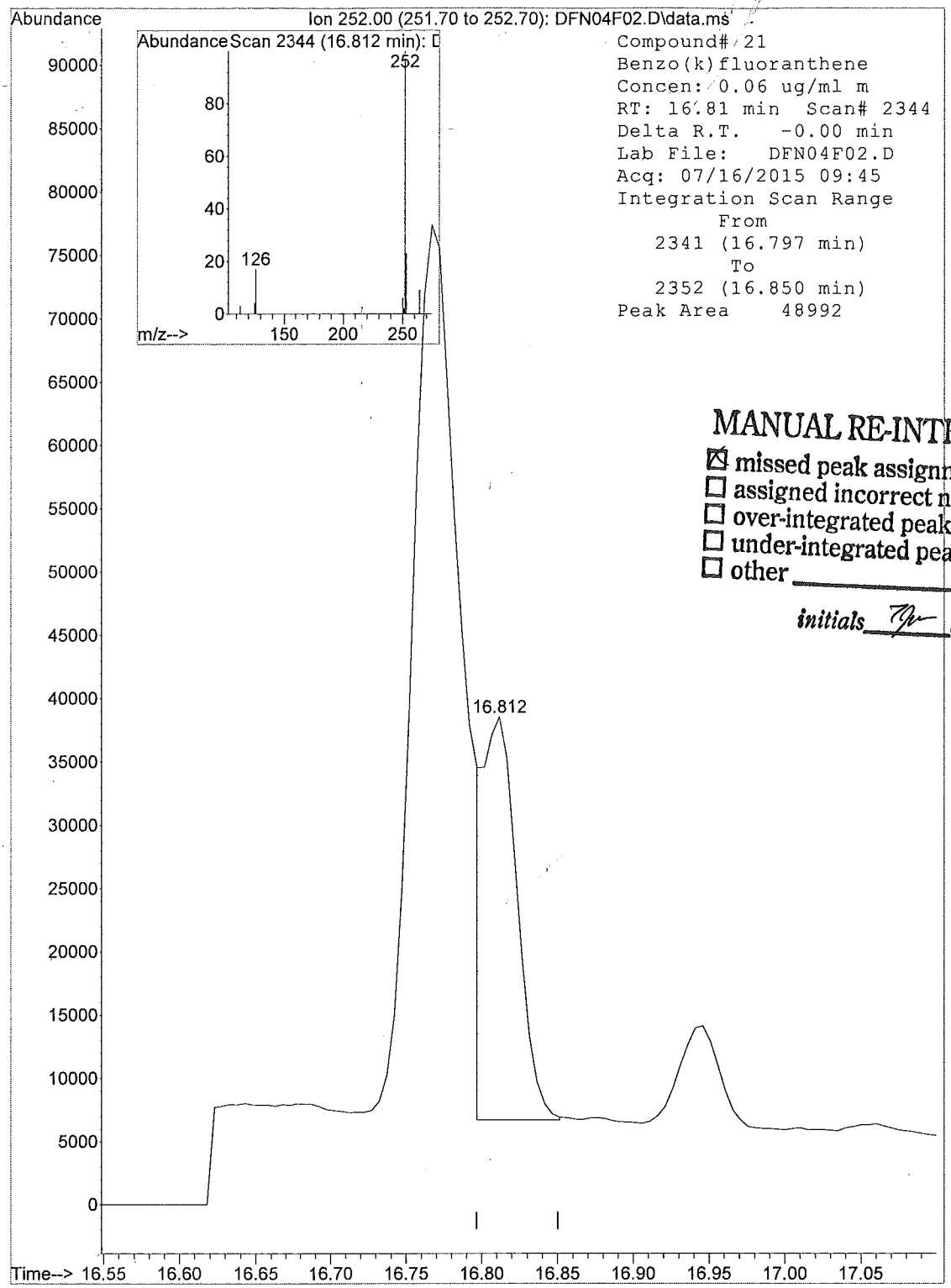


MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☒ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials ZJ *date* 7.18.15

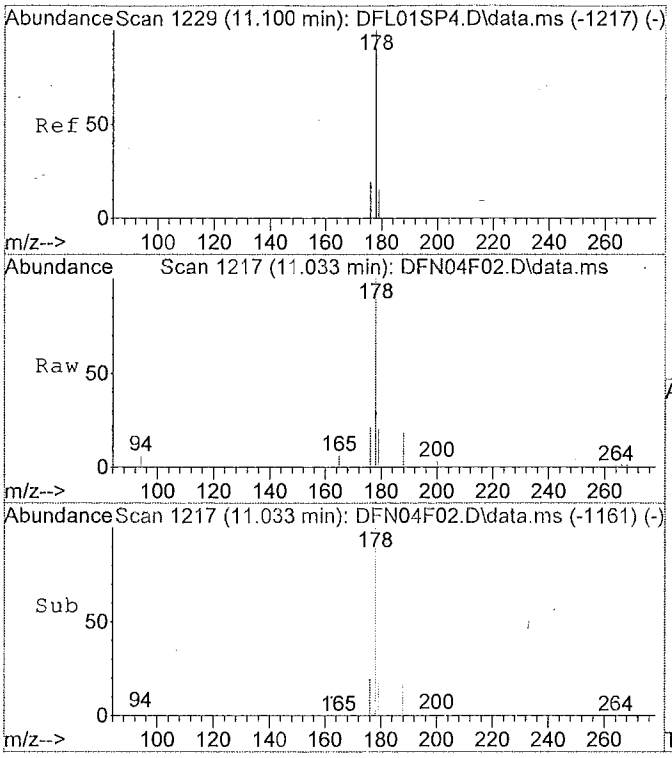
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- ☒ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

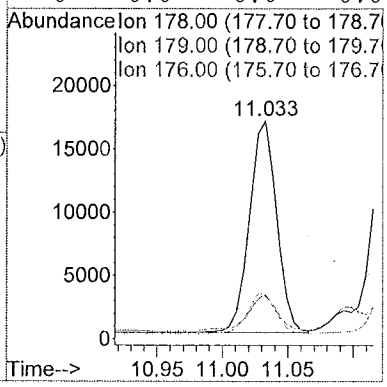
initials _____ *date* 7.18.15

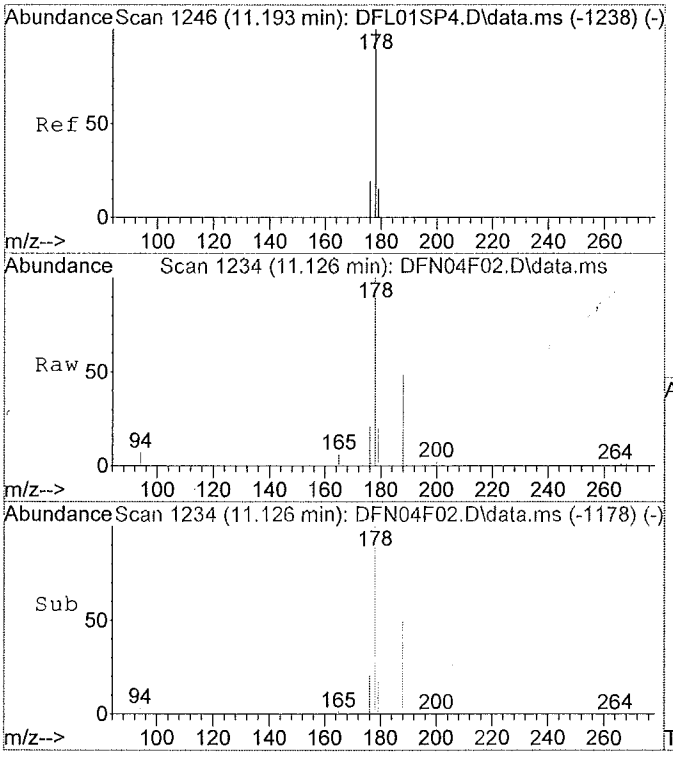


#11
Phenanthrene
Concen: 0.04 ug/ml
RT: 11.03 min Scan# 1217
Delta R.T. 0.00 min
Lab File: DFN04F02.D
Acq: 07/16/2015 09:45

Tgt Ion:178 Resp: 24090

Ion	Ratio	Lower	Upper
178	100		
179	19.1	11.1	20.5
176	20.2	14.1	26.1
0	0.0	0.0	0.0

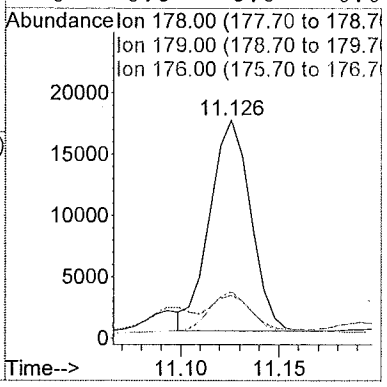


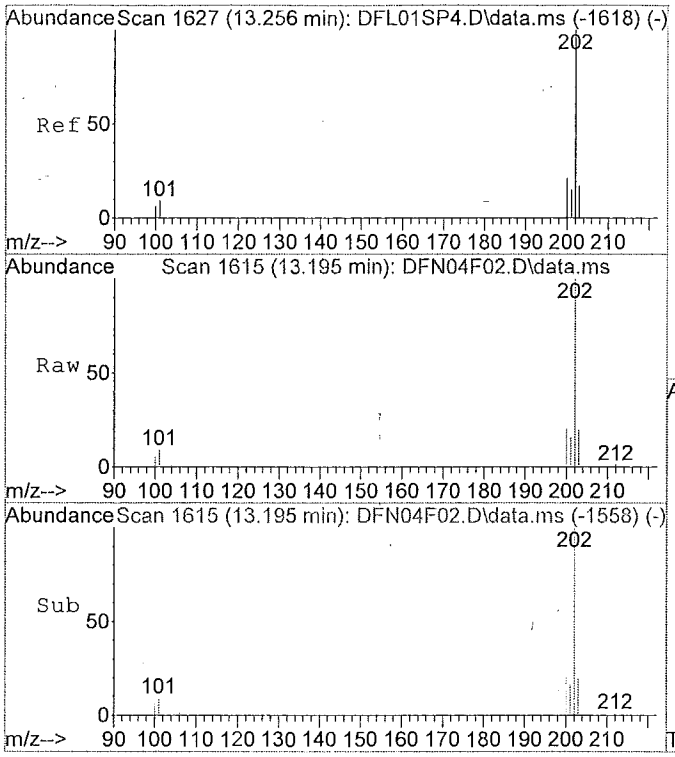


#12
Anthracene
Concen: 0.04 ug/ml m
RT: 11.13 min Scan# 1234
Delta R.T. 0.00 min
Lab File: DFN04F02.D
Acq: 07/16/2015 09:45

Tgt Ion:178 Resp: 24816

Ion	Ratio	Lower	Upper
178	100		
179	15.2	11.6	21.6
176	22.1	13.9	25.7
0	0.0	0.0	0.0

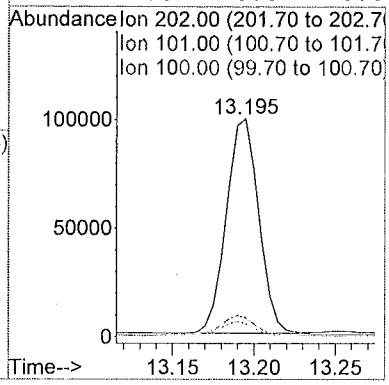


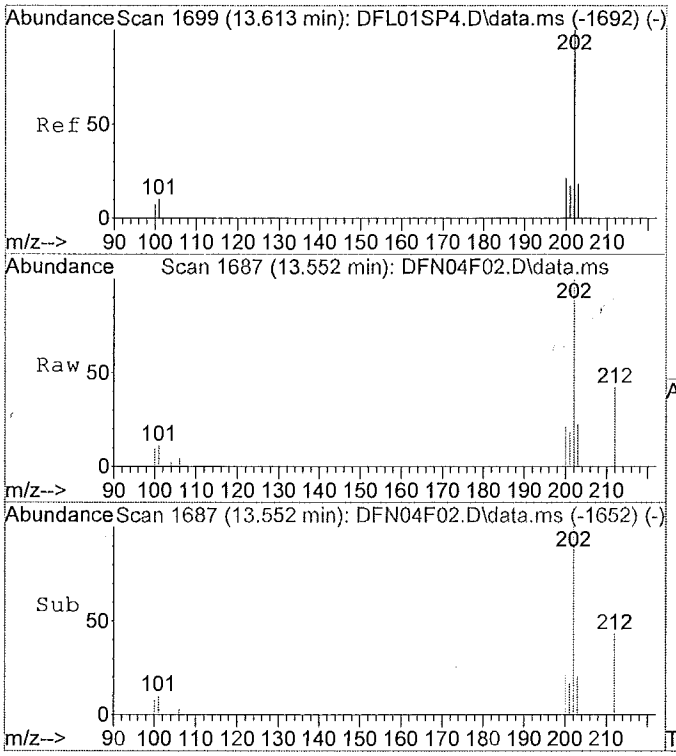


#14
Fluoranthene
Concen: 0.21 ug/ml
RT: 13.19 min Scan# 1615
Delta R.T. 0.00 min
Lab File: DFN04F02.D
Acq: 07/16/2015 09:45

Tgt Ion:202 Resp: 136299

Ion	Ratio	Lower	Upper
202	100		
101	9.9	9.4	17.6
100	7.9	0.0	0.0#
0	0.0	0.0	0.0

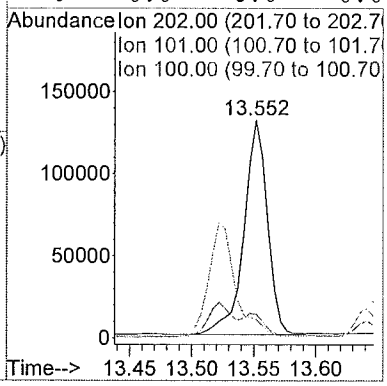


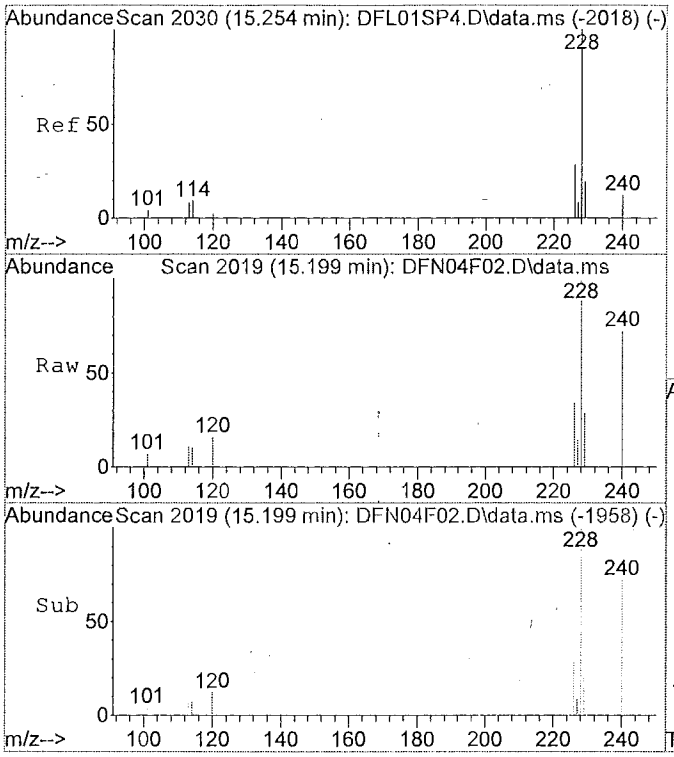


#16
Pyrene
Concen: 0.24 ug/ml
RT: 13.55 min Scan# 1687
Delta R.T. 0.00 min
Lab File: DFN04F02.D
Acq: 07/16/2015 09:45

Tgt Ion:202 Resp: 170941

Ion	Ratio	Lower	Upper
202	100		
101	16.0	10.6	19.6
100	62.5	9.4	17.4#
0	0.0	0.0	0.0

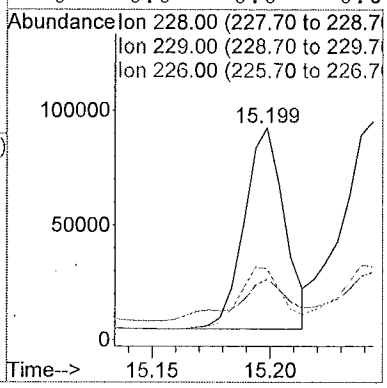


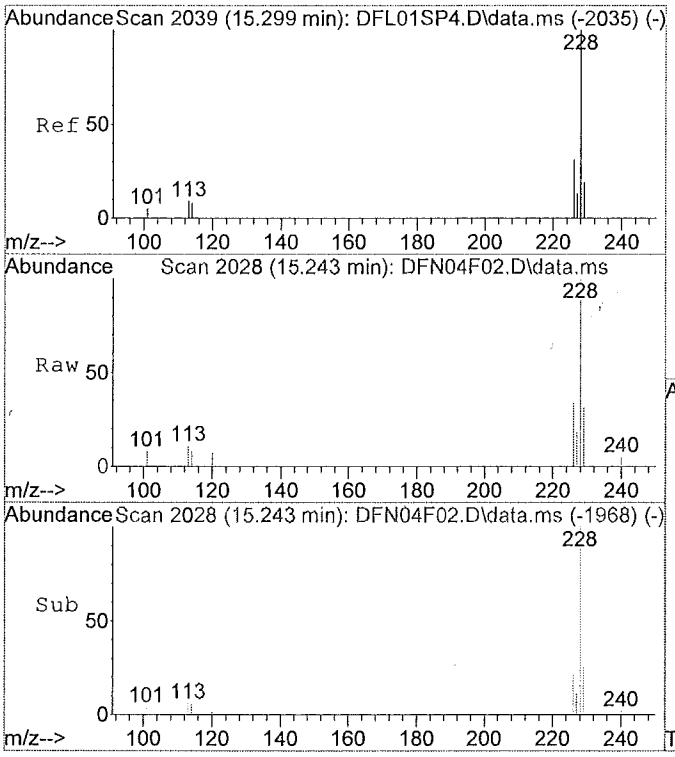


#17
Benzo(a)anthracene
Concen: 0.17 ug/ml
RT: 15.20 min Scan# 2019
Delta R.T. 0.00 min
Lab File: DFN04F02.D
Acq: 07/16/2015 09:45

Tgt Ion:228 Resp: 104353

Ion	Ratio	Lower	Upper
228	100		
229	26.6	14.5	26.9
226	33.1	18.5	34.3
0	0.0	0.0	0.0

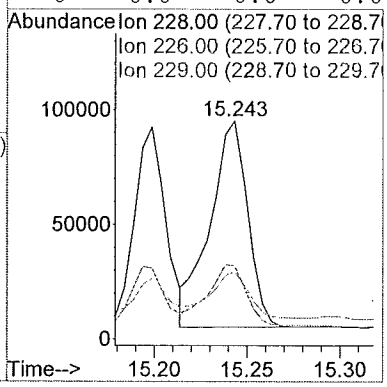


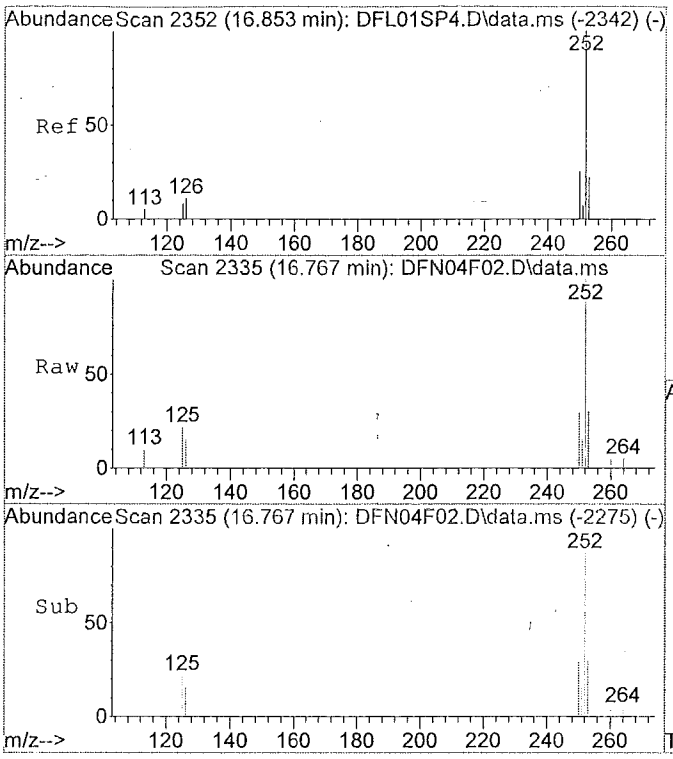


#18
Chrysene
Concen: 0.20 ug/ml
RT: 15.24 min Scan# 2028
Delta R.T. -0.00 min
Lab File: DFN04F02.D
Acq: 07/16/2015 09:45

Tgt Ion:228 Resp: 126846

Ion	Ratio	Lower	Upper
228	100		
226	32.8	19.7	36.7
229	23.2	14.5	26.9
0	0.0	0.0	0.0

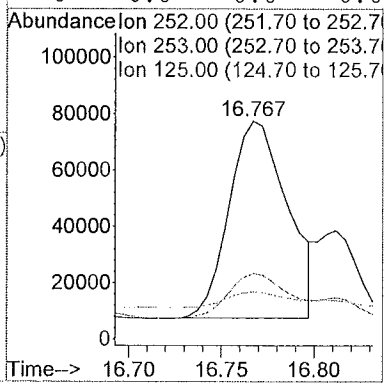


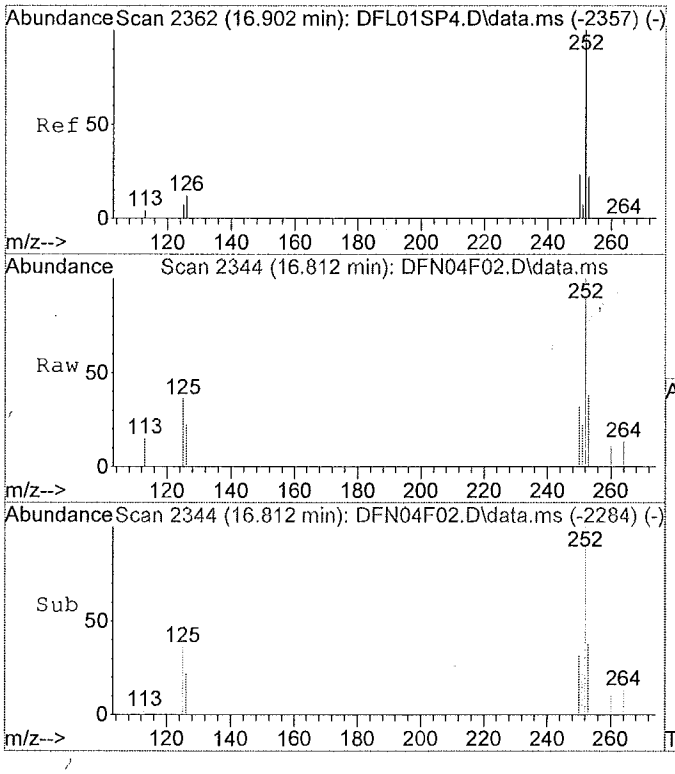


#20
Benzo(b)fluoranthene
Concen: 0.21 ug/ml
RT: 16.77 min Scan# 2335
Delta R.T. 0.00 min
Lab File: DFN04F02.D
Acq: 07/16/2015 09:45

Tgt Ion:252 Resp: 152865

Ion	Ratio	Lower	Upper
252	100		
253	22.0	15.3	28.3
125	4.6	0.0	0.0#
0	0.0	0.0	0.0

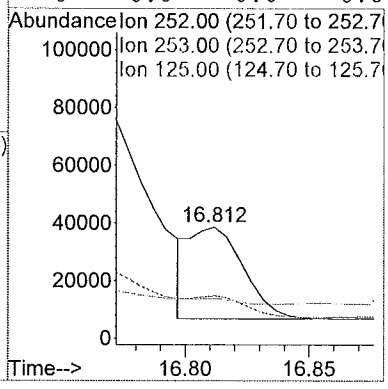


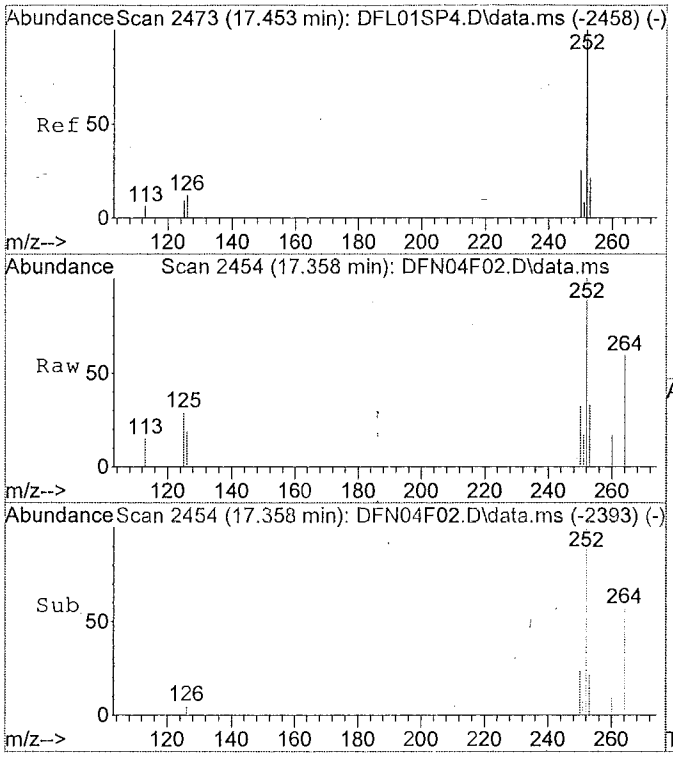


#21
Benzo(k)fluoranthene
Concen: 0.06 ug/ml m
RT: 16.81 min Scan# 2344
Delta R.T. -0.00 min
Lab File: DFN04F02.D
Acq: 07/16/2015 09:45

Tgt Ion:252 Resp: 48992

Ion	Ratio	Lower	Upper
252	100		
253	68.7	15.0	27.8#
125	14.4	0.0	0.0#
0	0.0	0.0	0.0

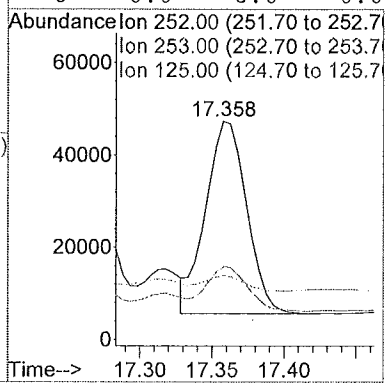


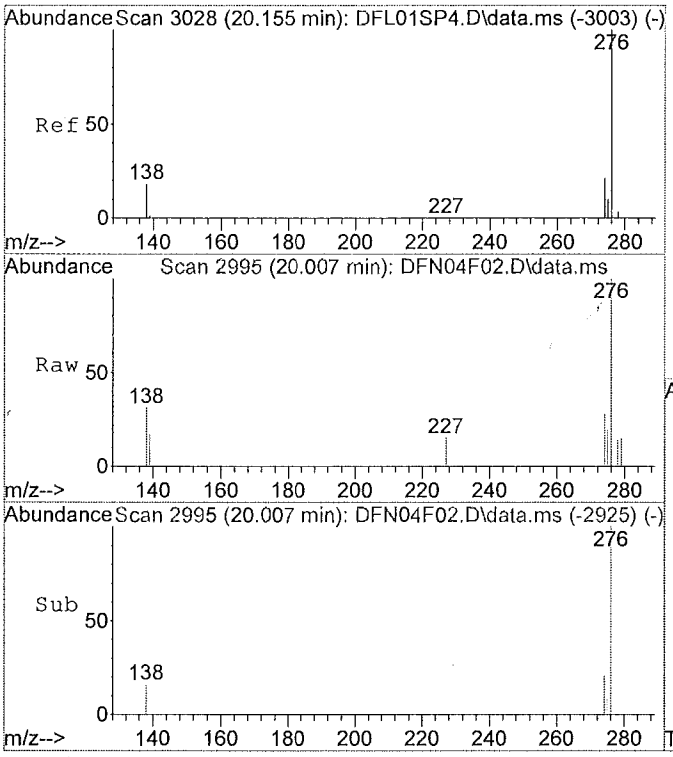


#22
Benzo(a)pyrene
Concen: 0.12 ug/ml
RT: 17.36 min Scan# 2454
Delta R.T. 0.00 min
Lab File: DFN04F02.D
Acq: 07/16/2015 09:45

Tgt Ion:252 Resp: 82555

Ion	Ratio	Lower	Upper
252	100		
253	23.3	15.0	27.8
125	7.6	0.0	0.0#
0	0.0	0.0	0.0

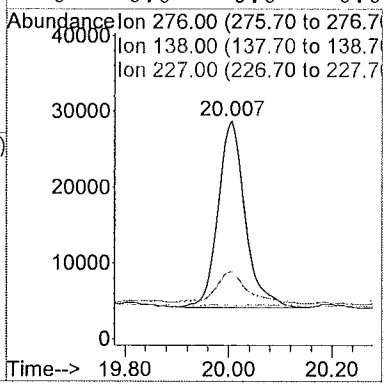


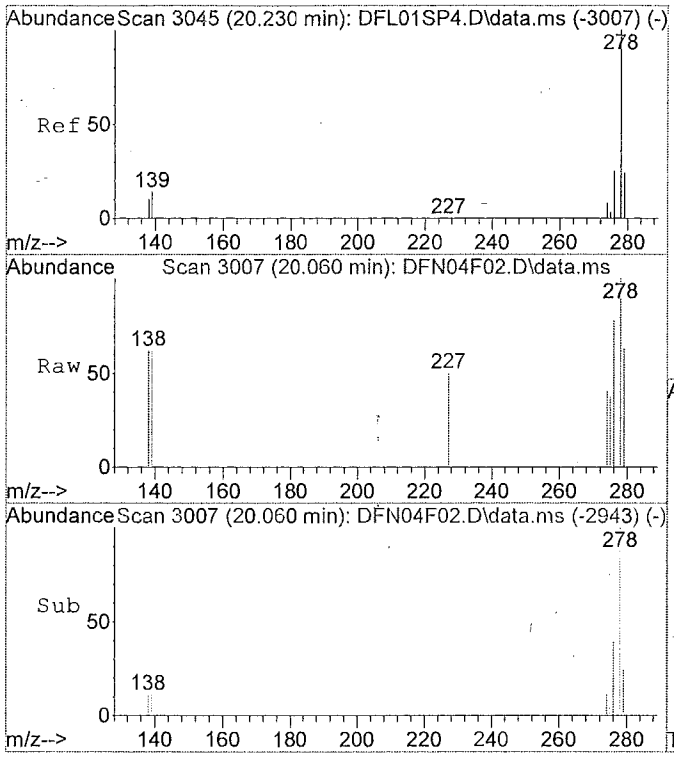


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.15 ug/ml
RT: 20.01 min Scan# 2995
Delta R.T. 0.01 min
Lab File: DFN04F02.D
Acq: 07/16/2015 09:45

Tgt Ion:276 Resp: 89070

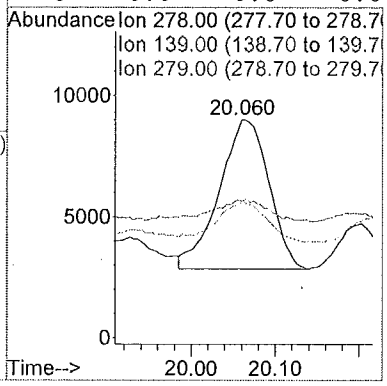
Ion	Ratio	Lower	Upper
276	100		
138	17.6	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

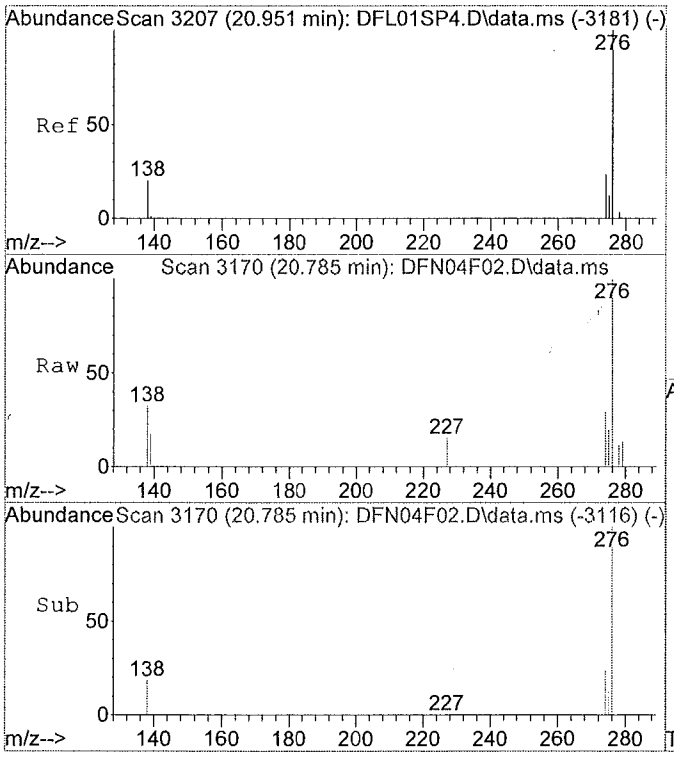




#24
Dibenzo(a,h)anthracene
Concen: 0.04 ug/ml
RT: 20.06 min Scan# 3007
Delta R.T. -0.01 min
Lab File: DFN04F02.D
Acq: 07/16/2015 09:45

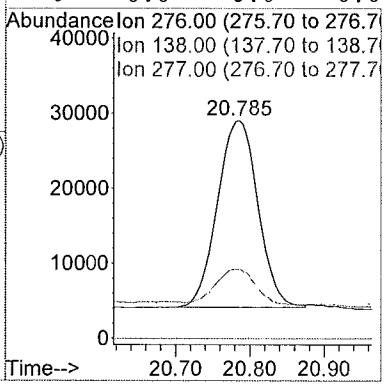
Tgt Ion:278	Resp:	25236	
Ion	Ratio	Lower	Upper
278	100		
139	14.4	0.0	0.0#
279	27.1	15.8	29.3
0	0.0	0.0	0.0





#25
Benzo(g,h,i)perylene
Concen: 0.14 ug/ml
RT: 20.79 min Scan# 3170
Delta R.T. 0.01 min
Lab File: DFN04F02.D
Acq: 07/16/2015 09:45

Tgt Ion:276	Resp:	93363	
Ion	Ratio	Lower	Upper
276	100		
138	19.2	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.

F9M23

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DGB07F03

Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2015

GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 200.0

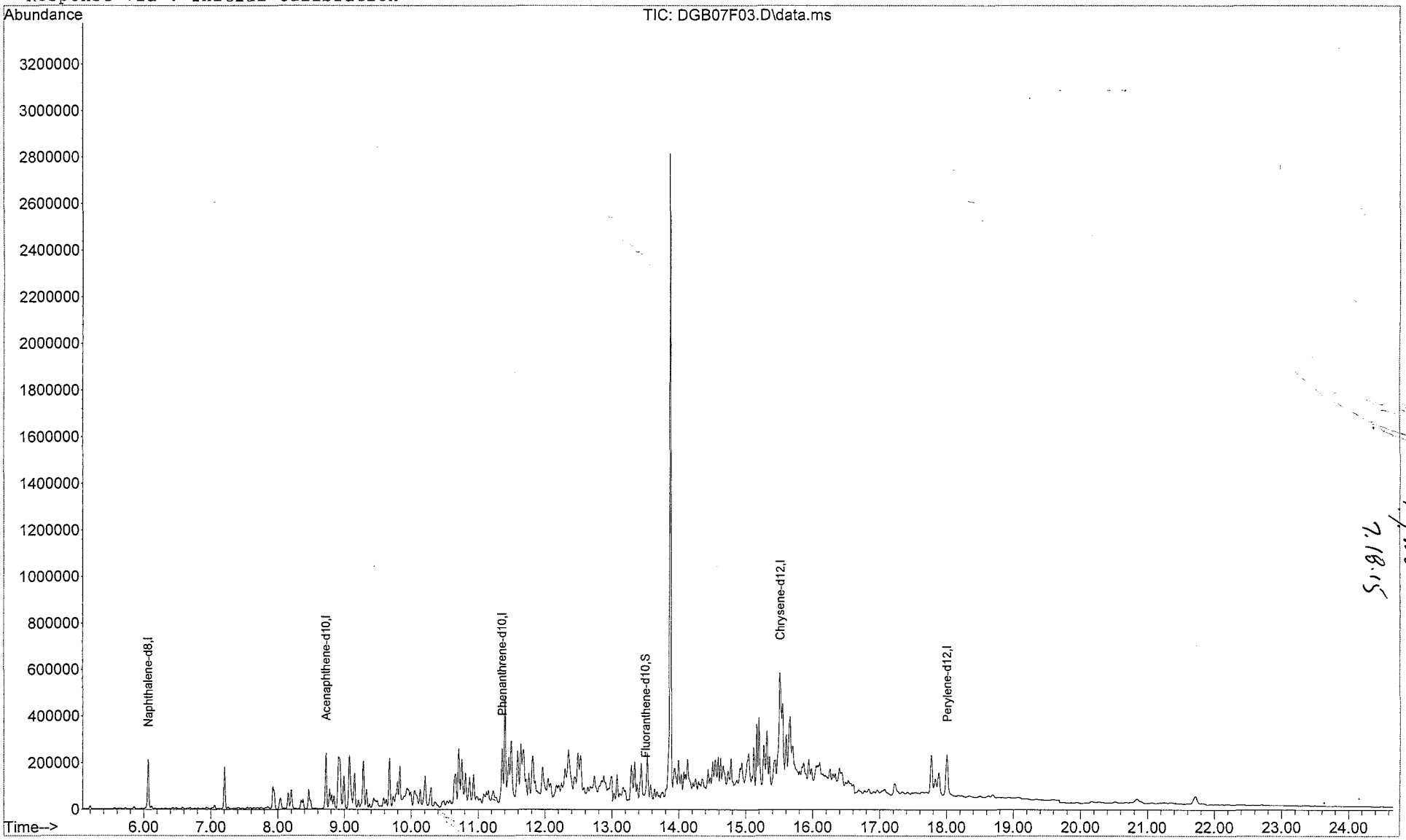
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	770	U
91-57-6	2-Methylnaphthalene	160	J
208-96-8	Acenaphthylene	770	U
83-32-9	Acenaphthene	730	J
86-73-7	Fluorene	1500	
87-86-5	Pentachlorophenol	1600	U
85-01-8	Phenanthrene	4800	
120-12-7	Anthracene	2100	
206-44-0	Fluoranthene	1400	
129-00-0	Pyrene	16000	E
56-55-3	Benzo(a)anthracene	1600	
218-01-9	Chrysene	1900	
205-99-2	Benzo(b)fluoranthene	510	J
207-08-9	Benzo(k)fluoranthene	770	U
50-32-8	Benzo(a)pyrene	940	
193-39-5	Indeno(1,2,3-cd)pyrene	470	J
53-70-3	Dibenzo(a,h)anthracene	770	U
191-24-2	Benzo(g,h,i)perylene	720	J

Quantitation Report

Data File : R:\D\2015\JUN15\15JUN15\15JUN15\DGB07F03.D Vial: 6
Acq On : 06/15/2015 17:33 Operator: SY
Sample : 1515542003 F9M23 (200) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 17 14:57:46 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



Quantitation Report

Data File : R:\D\2015\JUN15\15JUN15\15JUN15\DGB07F03.D Vial: 6
Acq On : 06/15/2015 17:33 Operator: SY
Sample : 1515542003 F9M23 (200) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 17 14:57:46 2015 Results File: DSOM_SIMJ2.RES

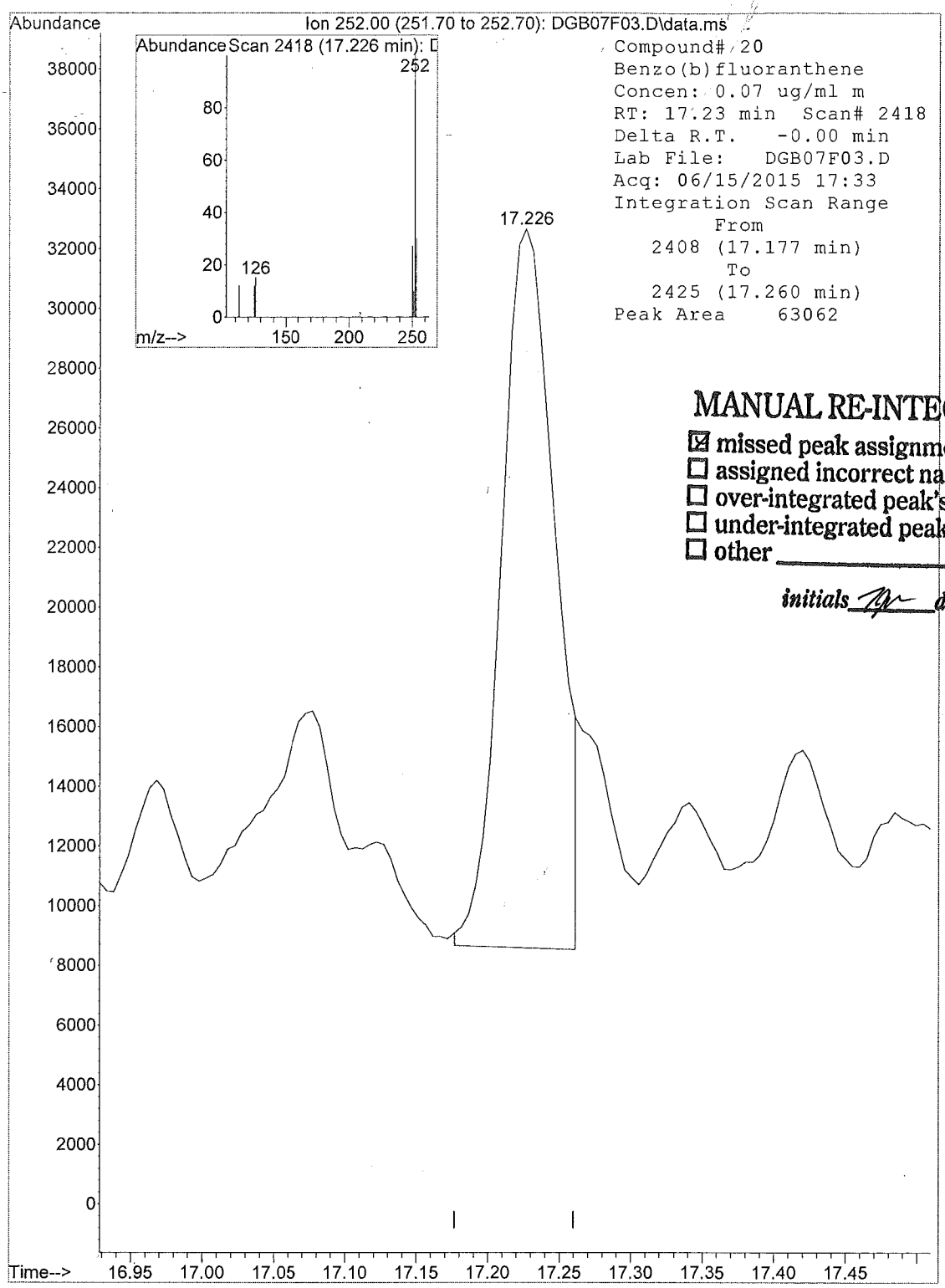
Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.06	136	239016	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	158307	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	284997	0.40 ug/ml	
15) Chrysene-d12	15.51	240	326676	0.40 ug/ml	
19) Perylene-d12	18.01	264	308058	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.00	152	919	0.002ug/mL	
13) Fluoranthene-d10	13.49	212	17705	0.023ug/mL	
Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	7.05	142	8095	0.020ug/ml	93
6) Acenaphthylene	0.00	152		Not Detected	
7) Acenaphthene	8.78	153	41699	0.094ug/ml	98
8) Fluorene	9.67	166	99671	0.194ug/ml	93
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.40	178	505006	0.615ug/ml	97
12) Anthracene	11.50	178	212565	0.266ug/ml	53
14) Fluoranthene	13.52	202	168745	0.181ug/ml	99
16) Pyrene	13.87	202	2103595	2.052ug/ml	87
17) Benzo(a)anthracene	15.50	228	178381	0.205ug/ml	39
18) Chrysene	15.55	228	223984	0.243ug/ml	61
20) Benzo(b)fluoranthene	17.23	252	63062	0.066ug/ml m	67
21) Benzo(k)fluoranthene	0.00	252		Not Detected	
22) Benzo(a)pyrene	17.88	252	109925	0.120ug/ml	86
23) Indeno(1,2,3-c,d)pyrene	20.84	276	47980	0.060ug/ml	100
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	21.71	276	83625	0.093ug/ml	69

7.18.15

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

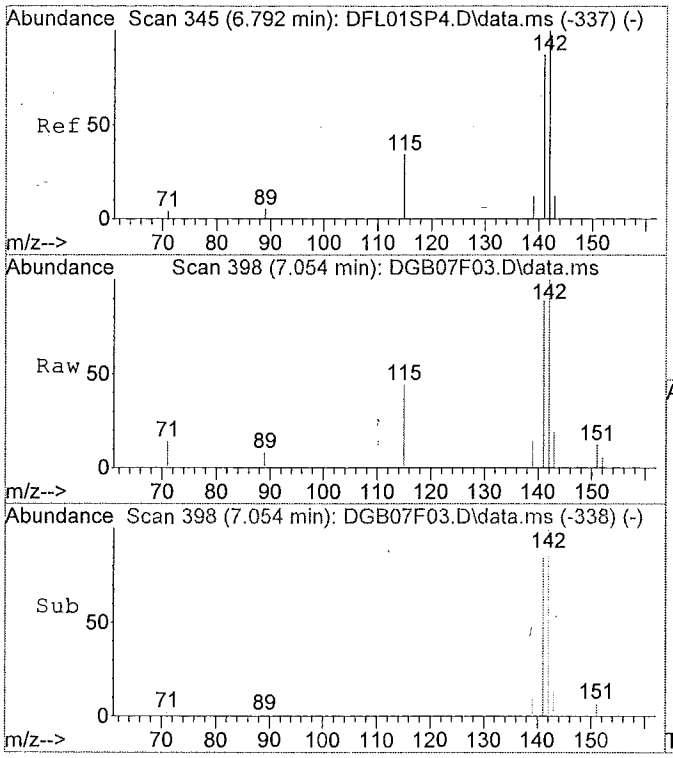
M A N U A L I N T E G R A T I O N FOR Benzo(b)fluoranthene



MANUAL RE-INTEGRATION

- ☑ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

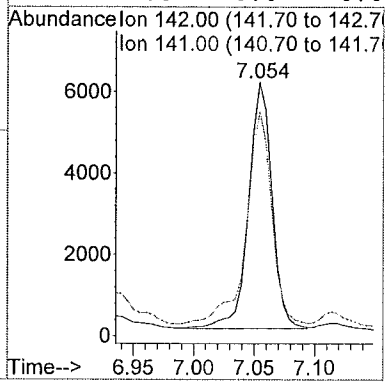
initials _____ *date* 7.18.15

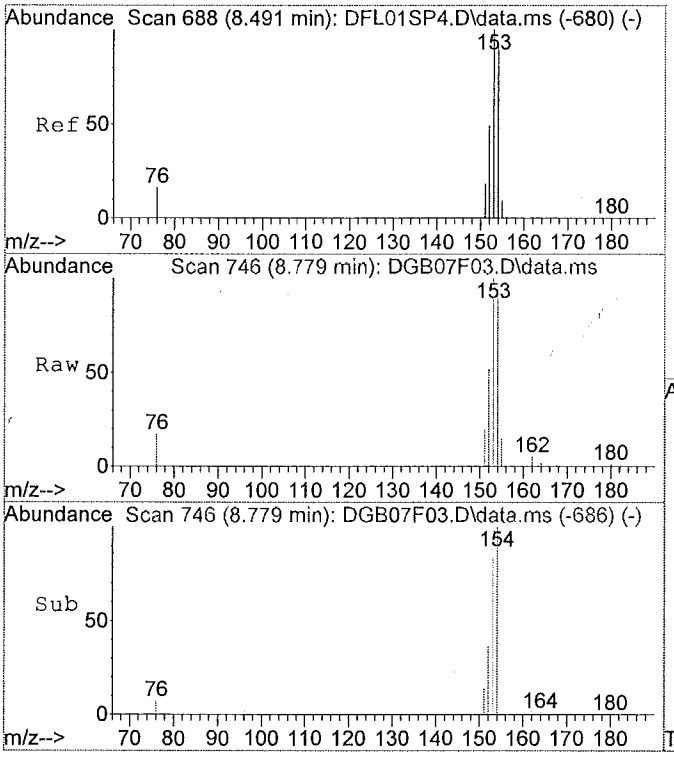


#4
2-Methylnaphthalene
Concen: 0.02 ug/ml
RT: 7.05 min Scan# 398
Delta R.T. -0.00 min
Lab File: DGB07F03.D
Acq: 06/15/2015 17:33

Tgt Ion:142 Resp: 8095

Ion	Ratio	Lower	Upper
142	100		
141	93.7	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

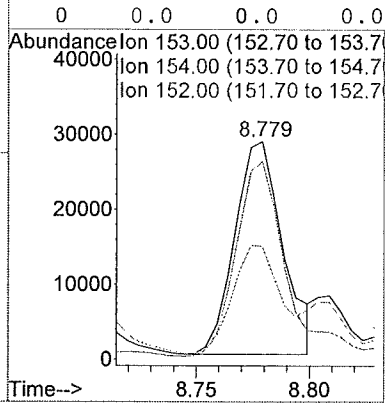


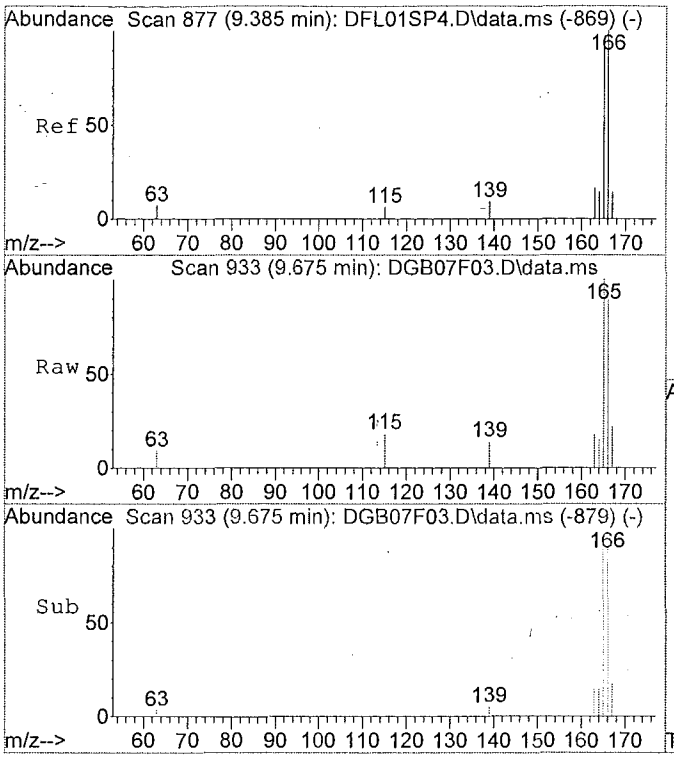


#7
Acenaphthene
Concen: 0.09 ug/ml
RT: 8.78 min Scan# 746
Delta R.T. -0.00 min
Lab File: DGB07F03.D
Acq: 06/15/2015 17:33

Tgt Ion:153 Resp: 41699

Ion	Ratio	Lower	Upper
153	100		
154	96.6	65.1	120.9
152	50.4	35.2	65.4
0	0.0	0.0	0.0

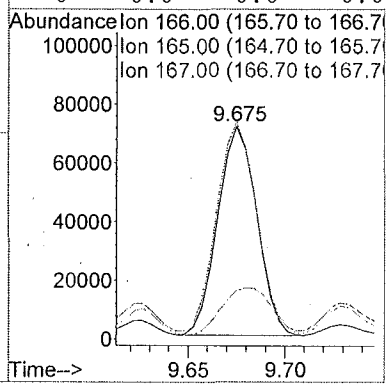


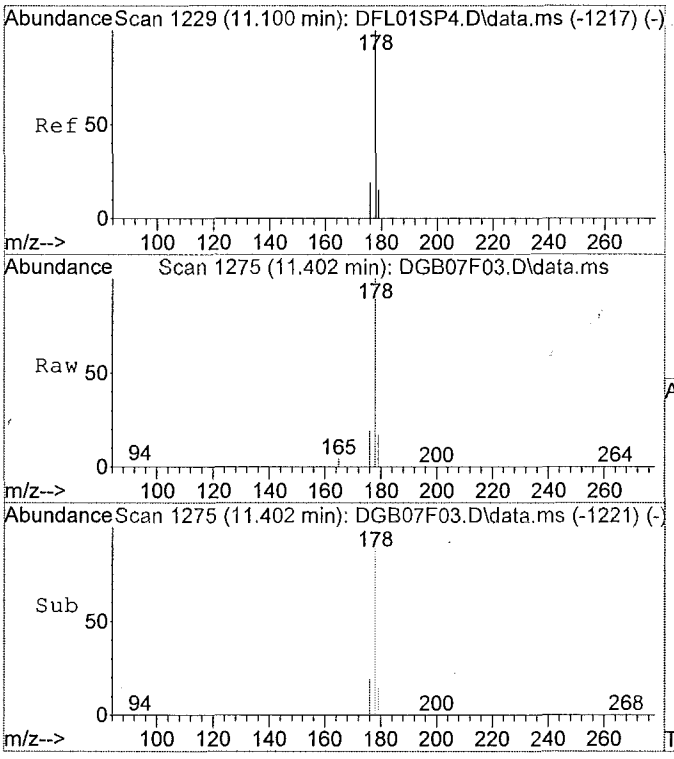


#8
Fluorene
Concen: 0.19 ug/ml
RT: 9.67 min Scan# 933
Delta R,T. -0.00 min
Lab File: DGB07F03.D
Acq: 06/15/2015 17:33

Tgt Ion:166 Resp: 99671

Ion	Ratio	Lower	Upper
166	100		
165	101.4	66.3	123.1
167	28.8	0.0	0.0#
0	0.0	0.0	0.0

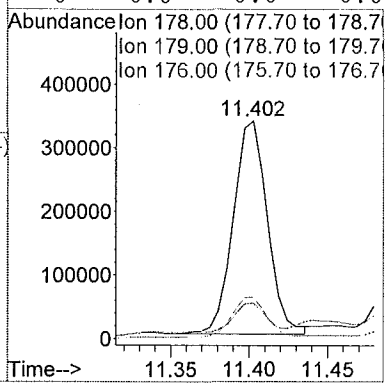


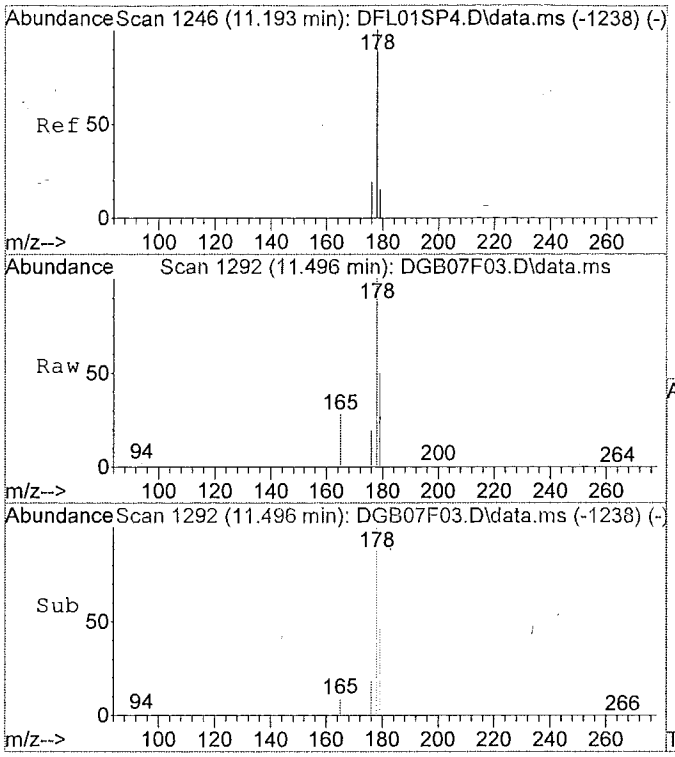


#11
Phenanthrene
Concen: 0.62 ug/ml
RT: 11.40 min Scan# 1275
Delta R.T. -0.01 min
Lab File: DGB07F03.D
Acq: 06/15/2015 17:33

Tgt Ion:178 Resp: 505006

Ion	Ratio	Lower	Upper
178	100		
179	14.1	11.1	20.5
176	19.0	14.1	26.1
0	0.0	0.0	0.0

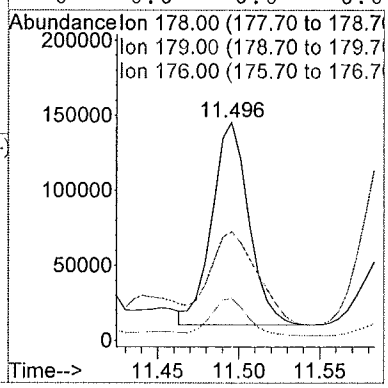


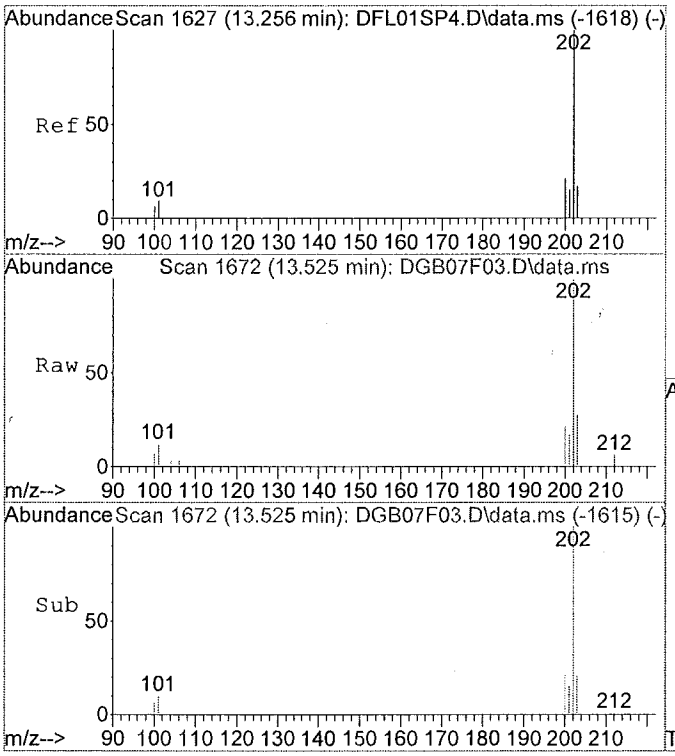


#12
Anthracene
Concen: 0.27 ug/ml
RT: 11.50 min Scan# 1292
Delta R.T. -0.01 min
Lab File: DGB07F03.D
Acq: 06/15/2015 17:33

Tgt Ion:178 Resp: 212565

Ion	Ratio	Lower	Upper
178	100		
179	60.0	11.6	21.6#
176	18.6	13.9	25.7
0	0.0	0.0	0.0

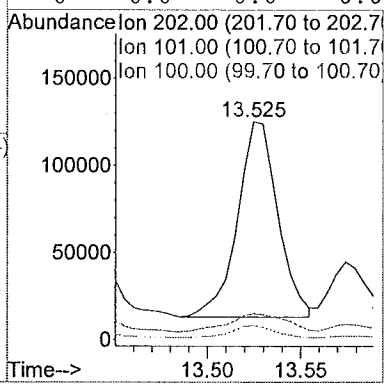


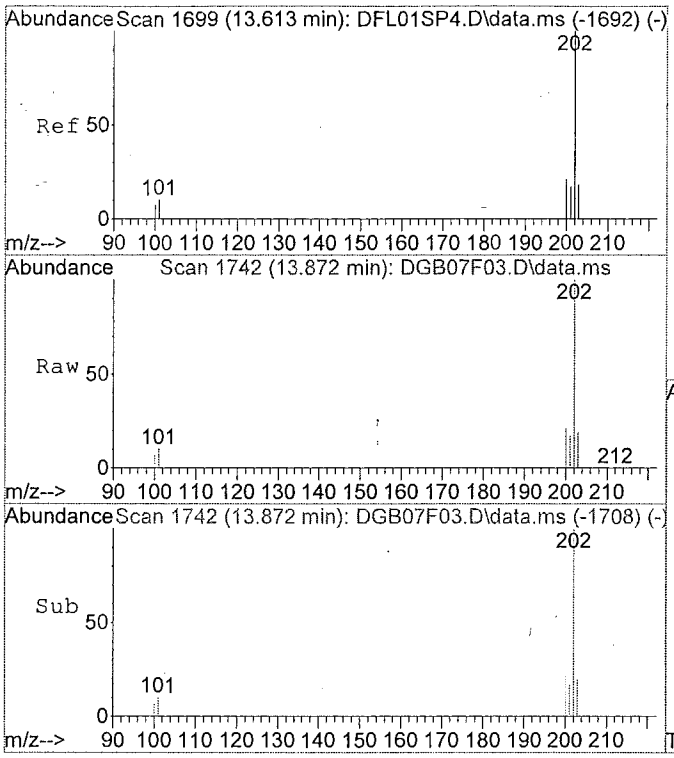


#14
Fluoranthene
Concen: 0.18 ug/ml
RT: 13.52 min Scan# 1672
Delta R.T. -0.01 min
Lab File: DGB07F03.D
Acq: 06/15/2015 17:33

Tgt Ion:202 Resp: 168745

Ion	Ratio	Lower	Upper
202	100		
101	13.1	9.4	17.6
100	6.3	0.0	0.0#
0	0.0	0.0	0.0

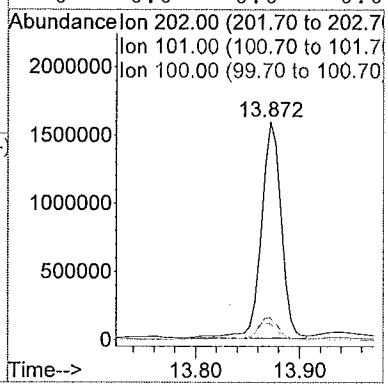


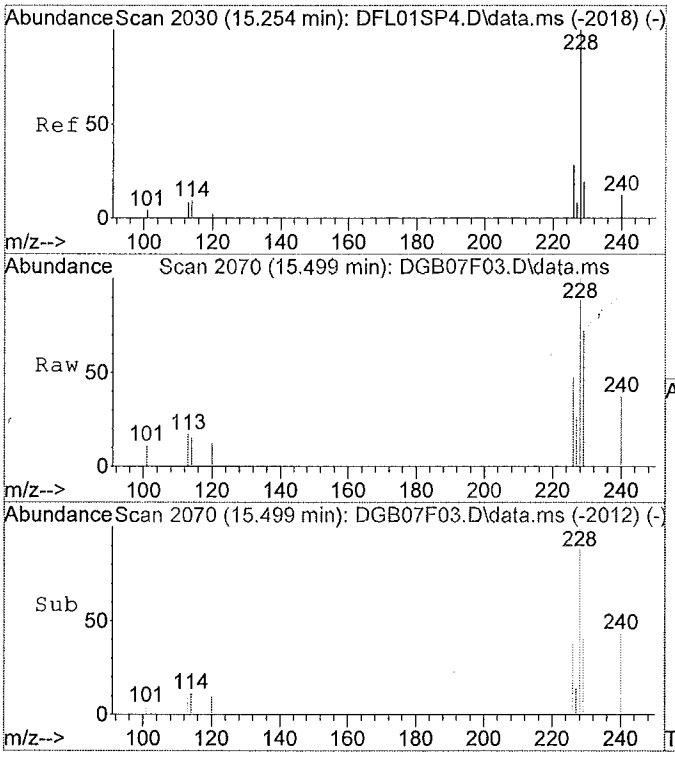


#16
Pyrene
Concen: 2.05 ug/ml
RT: 13.87 min Scan# 1742
Delta R.T. -0.00 min
Lab File: DGB07F03.D
Acq: 06/15/2015 17:33

Tgt Ion:202 Resp: 2103595

Ion	Ratio	Lower	Upper
202	100		
101	10.3	10.6	19.6#
100	7.6	9.4	17.4#
0	0.0	0.0	0.0

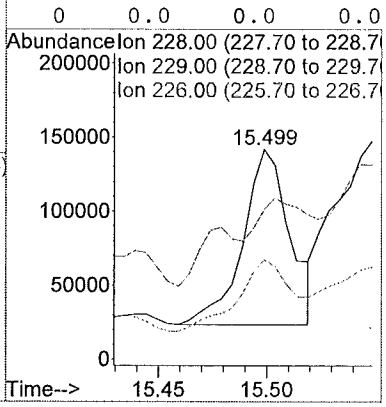


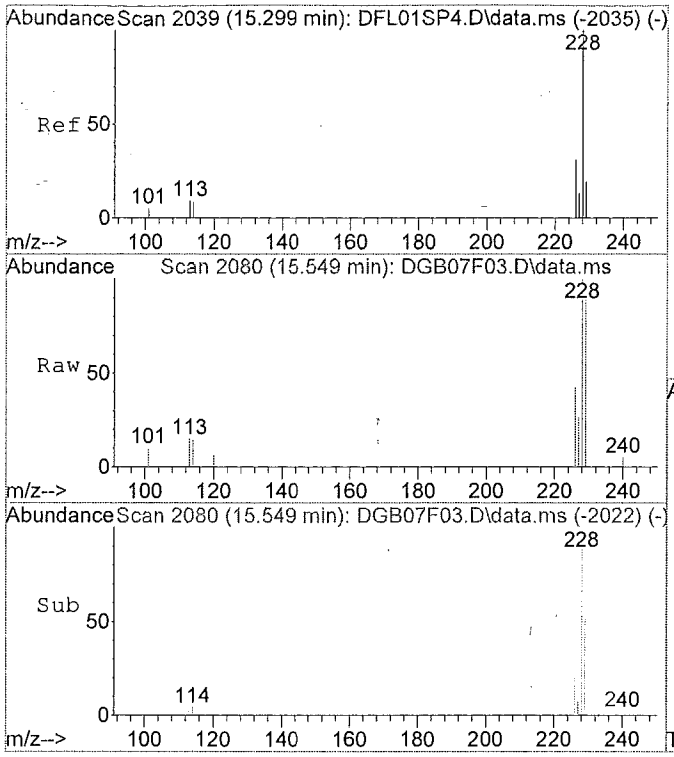


#17
Benzo(a)anthracene
Concen: 0.20 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DGB07F03.D
Acq: 06/15/2015 17:33

Tgt Ion:228 Resp: 178381

Ion	Ratio	Lower	Upper
228	100		
229	60.9	14.5	26.9#
226	47.7	18.5	34.3#
0	0.0	0.0	0.0

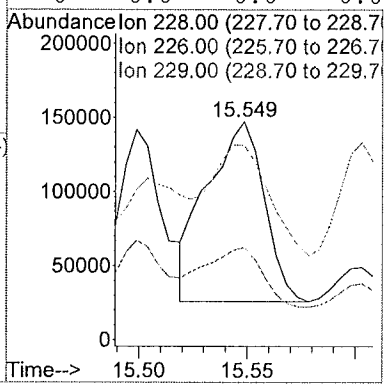


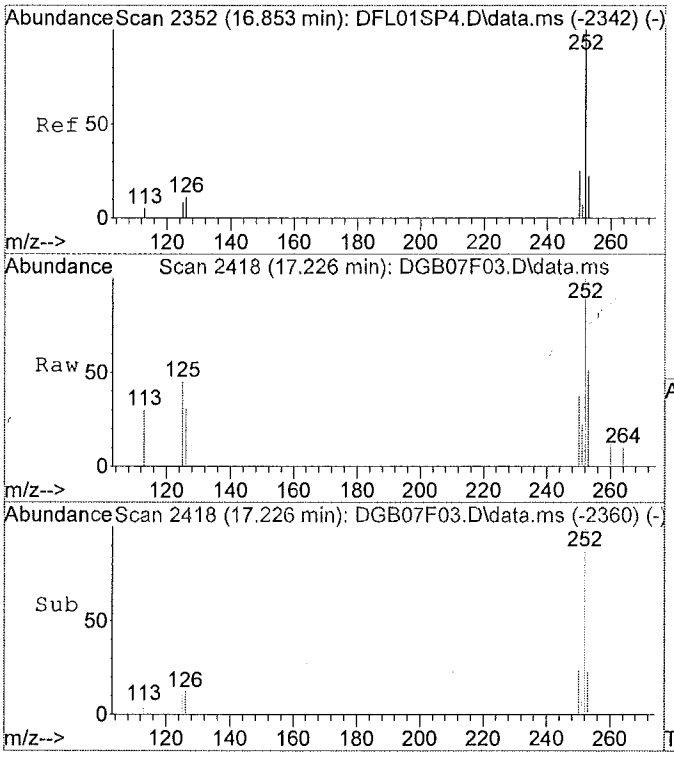


#18
Chrysene
Concen: 0.24 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DGB07F03.D
Acq: 06/15/2015 17:33

Tgt Ion:228 Resp: 223984

Ion	Ratio	Lower	Upper
228	100		
226	33.9	19.7	36.7
229	57.2	14.5	26.9#
0	0.0	0.0	0.0

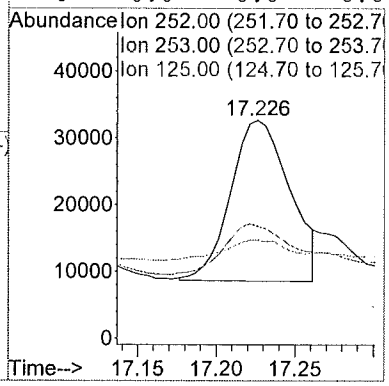


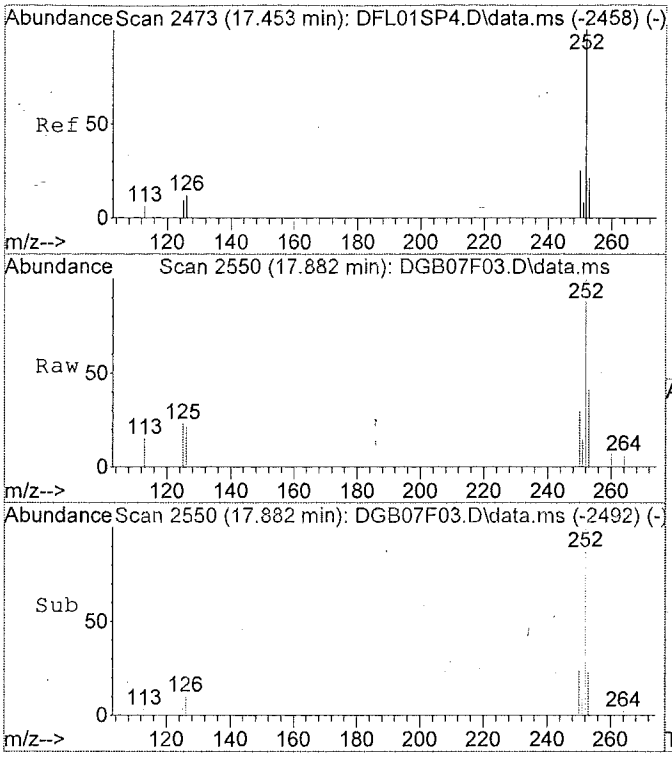


#20
Benzo(b)fluoranthene
Concen: 0.07 ug/ml m
RT: 17.23 min Scan# 2418
Delta R.T. -0.00 min
Lab File: DGB07F03.D
Acq: 06/15/2015 17:33

Tgt Ion:252 Resp: 63062

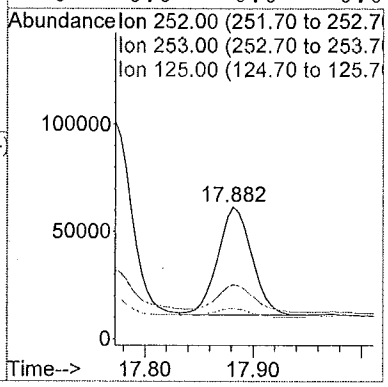
Ion	Ratio	Lower	Upper
252	100		
253	43.4	15.3	28.3#
125	13.4	0.0	0.0#
0	0.0	0.0	0.0

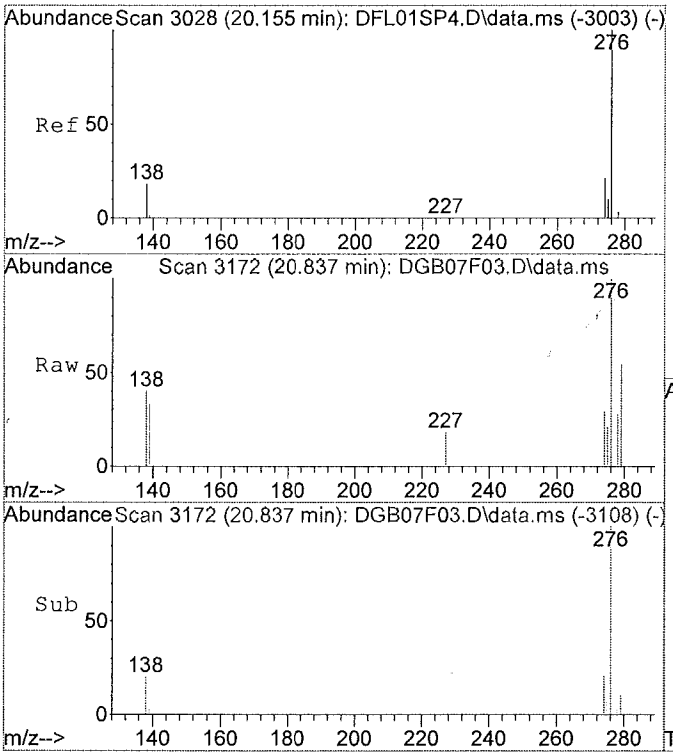




#22
Benzo(a)pyrene
Concen: 0.12 ug/ml
RT: 17.88 min Scan# 2550
Delta R.T. -0.01 min
Lab File: DGB07F03.D
Acq: 06/15/2015 17:33

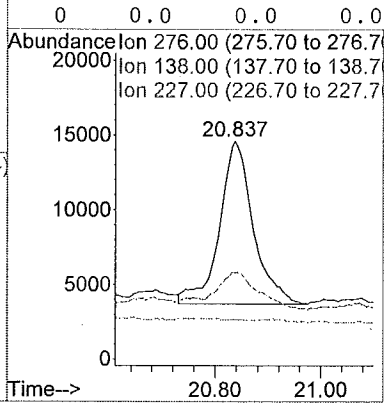
Tgt Ion:252	Resp:	109925	
Ion	Ratio	Lower	Upper
252	100		
253	28.2	15.0	27.8#
125	8.4	0.0	0.0#
0	0.0	0.0	0.0

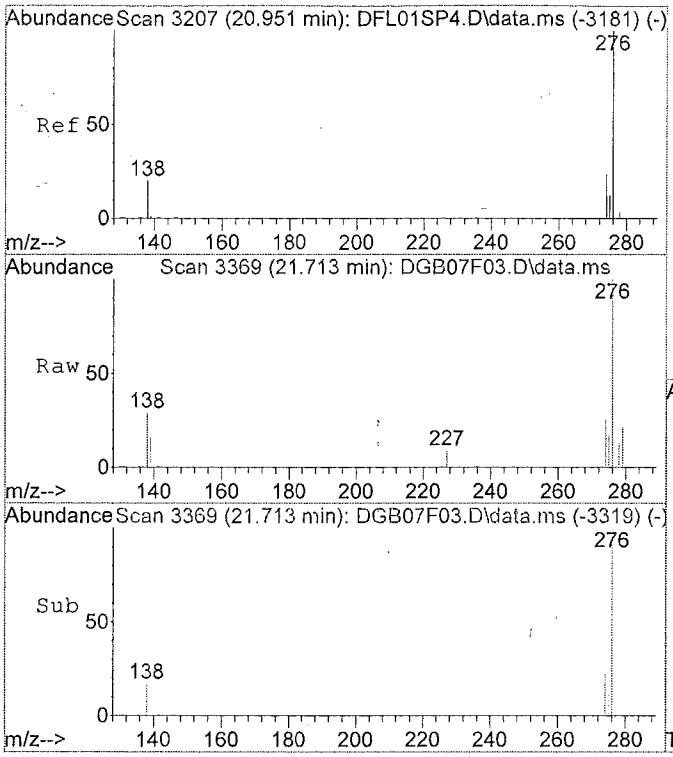




#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.06 ug/ml
RT: 20.84 min Scan# 3172
Delta R.T. -0.01 min
Lab File: DGB07F03.D
Acq: 06/15/2015 17:33

Tgt Ion:276	Resp:	47980	
Ion	Ratio	Lower	Upper
276	100		
138	27.7	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

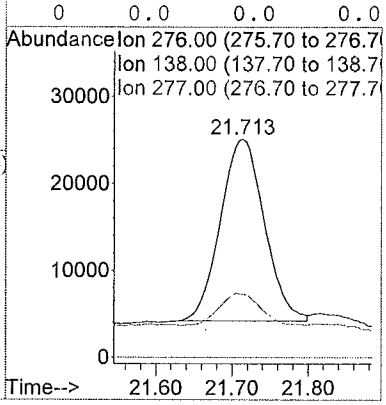




#25
Benzo(g,h,i)perylene
Concen: 0.09 ug/ml
RT: 21.71 min Scan# 3369
Delta R.T. -0.01 min
Lab File: DGB07F03.D
Acq: 06/15/2015 17:33

Tgt Ion:276 Resp: 83625

Ion	Ratio	Lower	Upper
276	100		
138	16.1	16.2	30.0#
277	0.0	16.5	30.7#
0	0.0	0.0	0.0



1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO:

F9M24

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DGB08F04

Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2015

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 60.0

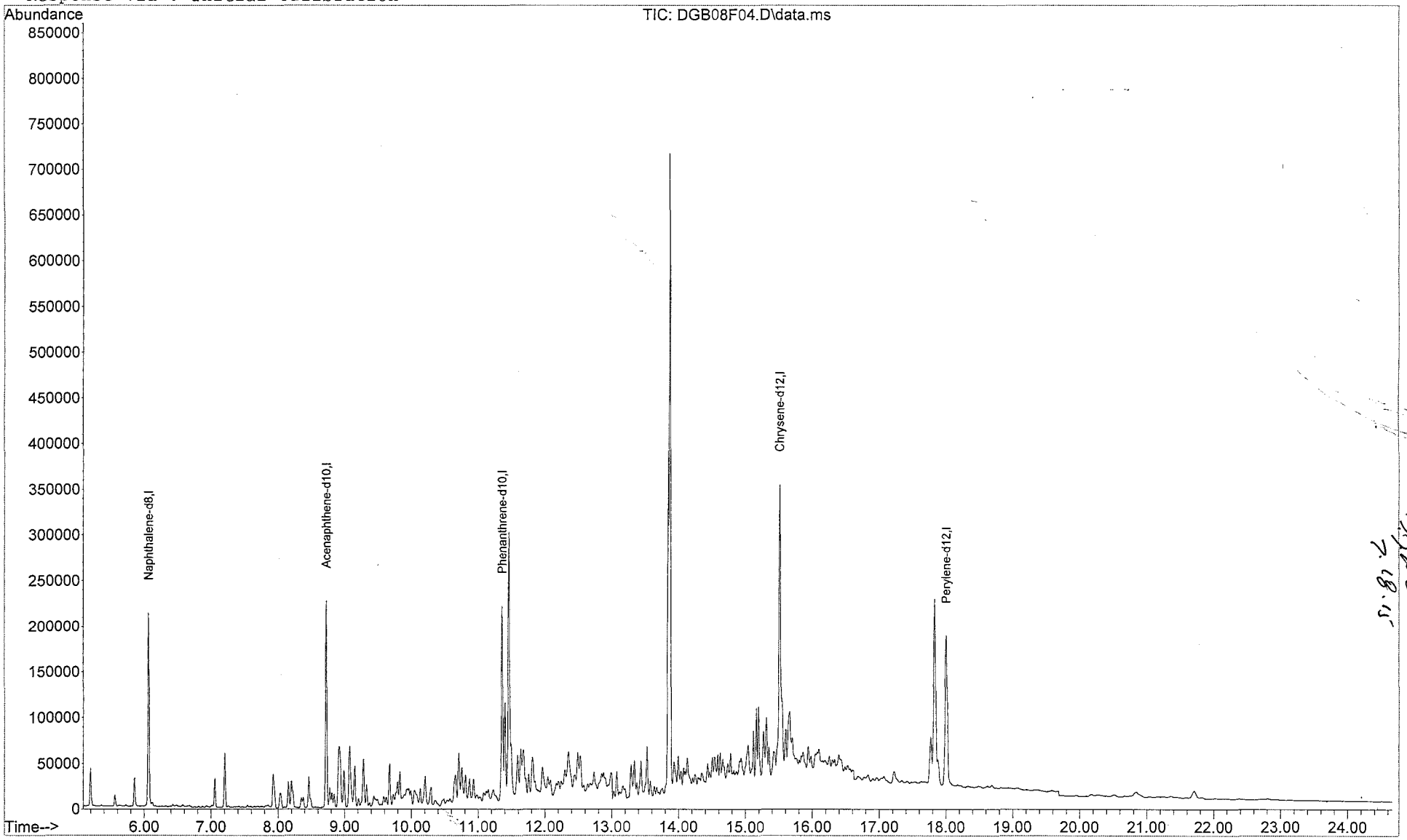
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	230	U
91-57-6	2-Methylnaphthalene	93.	J
208-96-8	Acenaphthylene	230	U
83-32-9	Acenaphthene	56.	J
86-73-7	Fluorene	97.	J
87-86-5	Pentachlorophenol	470	U
85-01-8	Phenanthrene	350	
120-12-7	Anthracene	130	J
206-44-0	Fluoranthene	110	J
129-00-0	Pyrene	1300	
56-55-3	Benzo(a)anthracene	120	J
218-01-9	Chrysene	150	J
205-99-2	Benzo(b)fluoranthene	230	U
207-08-9	Benzo(k)fluoranthene	230	U
50-32-8	Benzo(a)pyrene	73.	J
193-39-5	Indeno(1,2,3-cd)pyrene	230	U
53-70-3	Dibenzo(a,h)anthracene	230	U
191-24-2	Benzo(g,h,i)perylene	53.	J

Quantitation Report

Data File : R:\D\2015\JUN15\15JUN15\15JUN15\DGB08F04.D Vial: 7
Acq On : 06/15/2015 18:04 Operator: SY
Sample : 1515542004 F9M24 (60) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 17 14:58:23 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



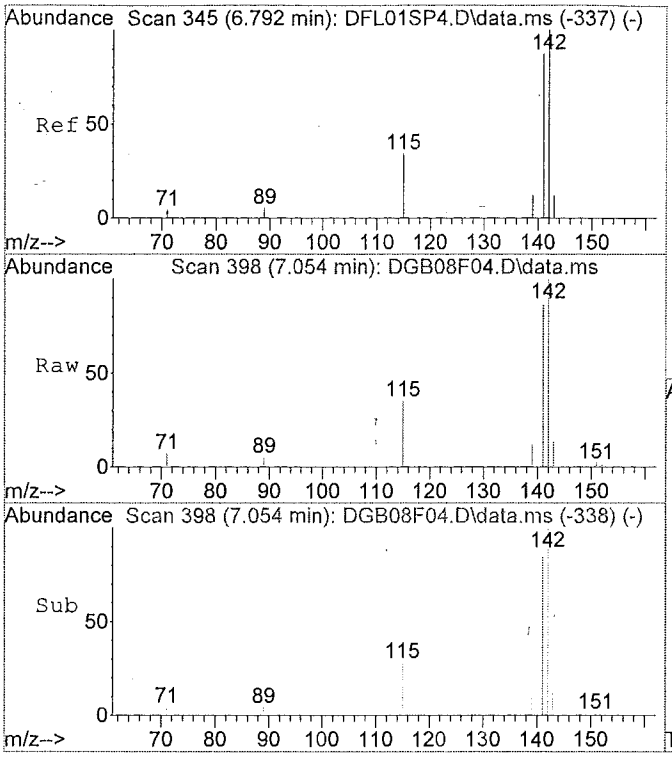
Quantitation Report

Data File : R:\D\2015\JUN15\15JUN15\DGB08F04.p Vial: 7
Acq On : 06/15/2015 18:04 Operator: SY
Sample : 1515542004 F9M24 (60) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 17 14:58:23 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

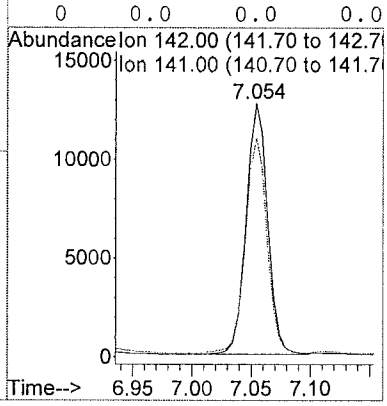
Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.06	136	237413	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	153813	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	279942	0.40 ug/ml	
15) Chrysene-d12	15.51	240	311018	0.40 ug/ml	
19) Perylene-d12	18.00	264	305426	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.00	152	2092	0.005ug/mL	
13) Fluoranthene-d10	13.49	212	10799	0.014ug/mL	
Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	7.05	142	16030	0.040ug/ml	99
6) Acenaphthylene	0.00	152		Not Detected	
7) Acenaphthene	8.77	153	10400	0.024ug/ml	97
8) Fluorene	9.67	166	20932	0.042ug/ml	90
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.40	178	120490	0.149ug/ml	97
12) Anthracene	11.50	178	44942	0.057ug/ml	51
14) Fluoranthene	13.52	202	44535	0.049ug/ml	98
16) Pyrene	13.87	202	544300	0.558ug/ml	88
17) Benzo(a)anthracene	15.50	228	42196	0.051ug/ml	33
18) Chrysene	15.54	228	57160	0.065ug/ml	60
20) Benzo(b)fluoranthene	0.00	252		Not Detected	
21) Benzo(k)fluoranthene	0.00	252		Not Detected	
22) Benzo(a)pyrene	17.88	252	28639	0.031ug/ml	87
23) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	21.70	276	20555	0.023ug/ml	69

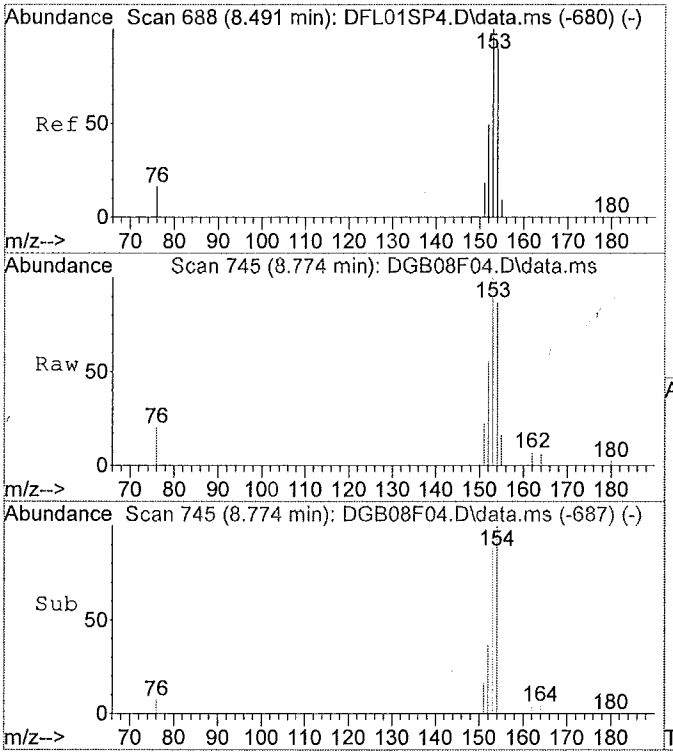
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)



#4
2-Methylnaphthalene
Concen: 0.04 ug/ml
RT: 7.05 min Scan# 398
Delta R.T. -0.01 min
Lab File: DGB08F04.D
Acq: 06/15/2015 18:04

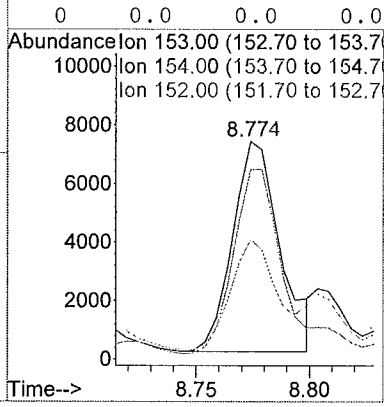
Tgt Ion:142	Resp:	16030	
Ion	Ratio	Lower	Upper
142	100		
141	86.5	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

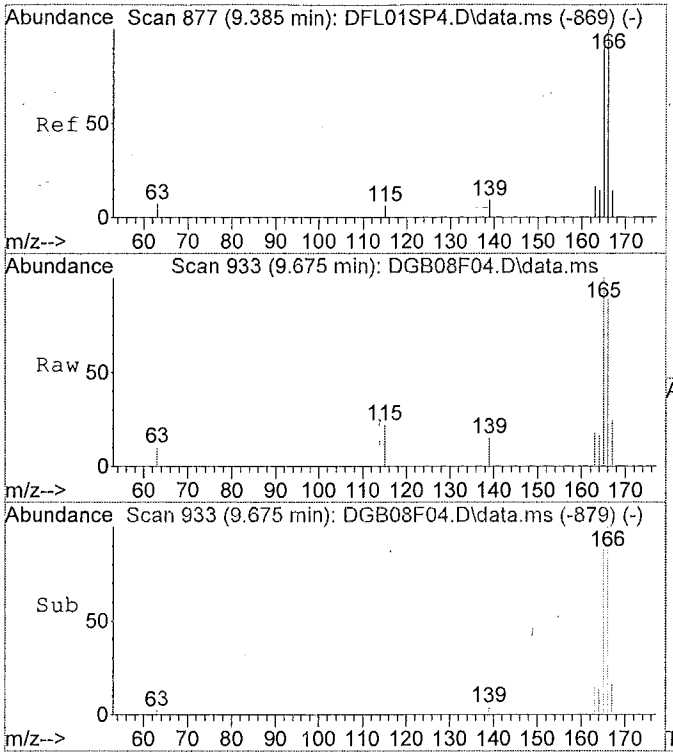




#7
Acenaphthene
Concen: 0.02 ug/ml
RT: 8.77 min Scan# 745
Delta R.T. -0.01 min
Lab File: DGB08F04.D
Acq: 06/15/2015 18:04

Tgt Ion:153	Resp:	10400	
Ion	Ratio	Lower	Upper
153	100		
154	96.0	65.1	120.9
152	52.7	35.2	65.4
0	0.0	0.0	0.0

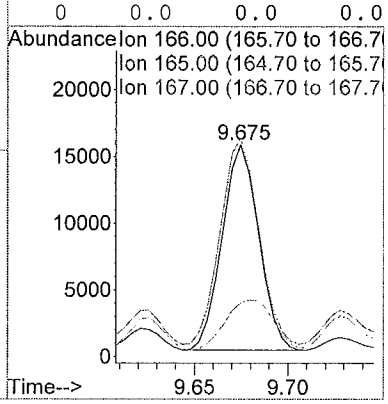


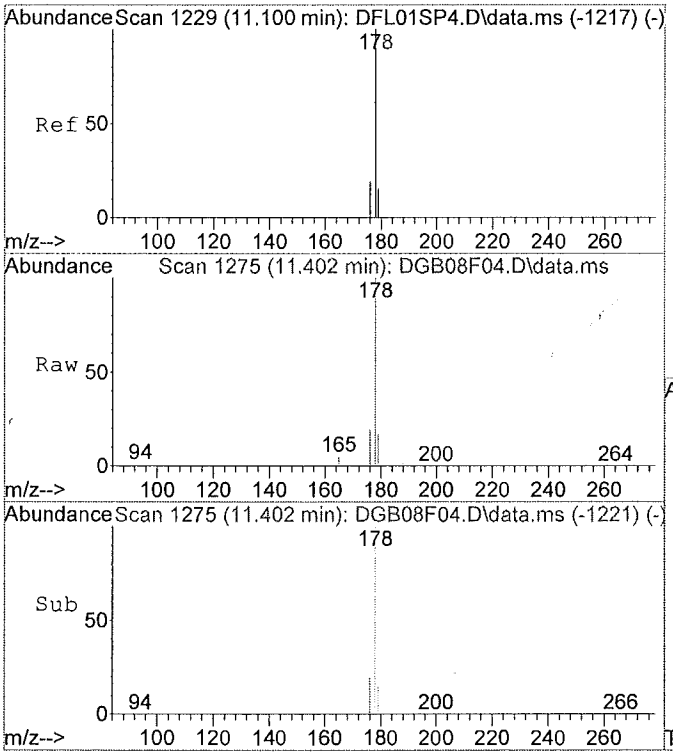


#8
Fluorene
Concen: 0.04 ug/ml
RT: 9.67 min Scan# 933
Delta R.T. -0.00 min
Lab File: DGB08F04.D
Acq: 06/15/2015 18:04

Tgt Ion:166 Resp: 20932

Ion	Ratio	Lower	Upper
166	100		
165	104.7	66.3	123.1
167	32.2	0.0	0.0#
0	0.0	0.0	0.0

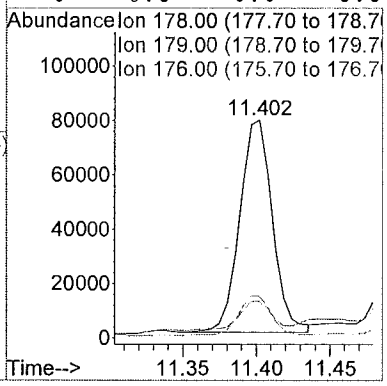


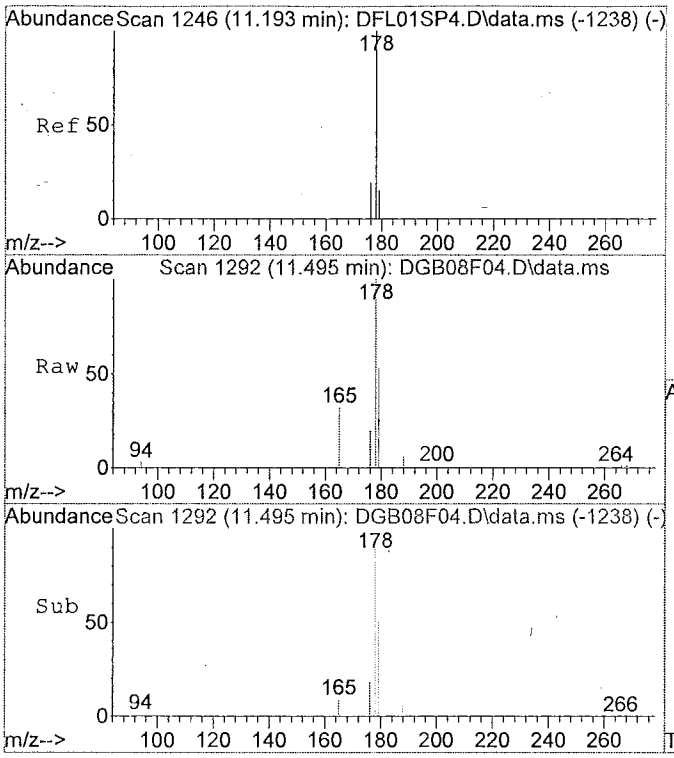


#11
Phenanthrene
Concen: 0.15 ug/ml
RT: 11.40 min Scan# 1275
Delta R.T. -0.01 min
Lab File: DGB08F04.D
Acq: 06/15/2015 18:04

Tgt Ion:178 Resp: 120490

Ion	Ratio	Lower	Upper
178	100		
179	14.1	11.1	20.5
176	19.0	14.1	26.1
0	0.0	0.0	0.0

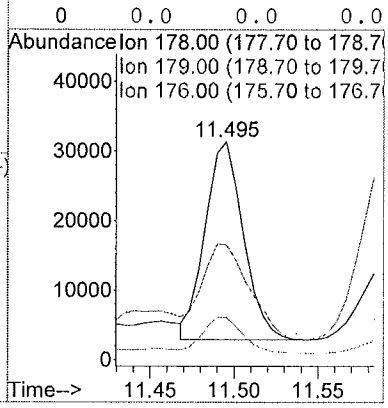


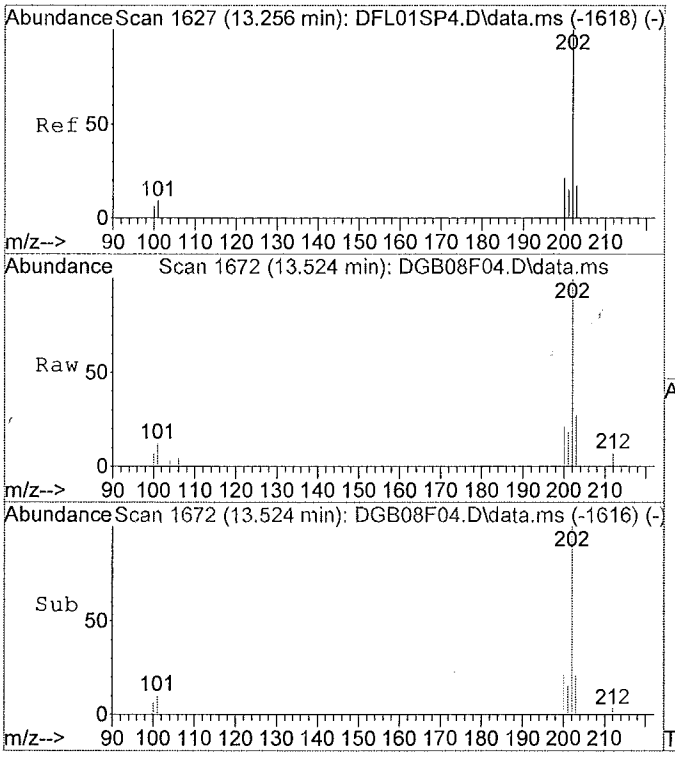


#12
Anthracene
Concen: 0.06 ug/ml
RT: 11.50 min Scan# 1292
Delta R.T. -0.01 min
Lab File: DGB08F04.D
Acq: 06/15/2015 18:04

Tgt Ion:178 Resp: 44942

Ion	Ratio	Lower	Upper
178	100		
179	62.1	11.6	21.6#
176	19.0	13.9	25.7
0	0.0	0.0	0.0

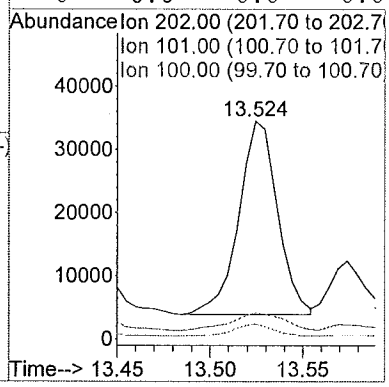


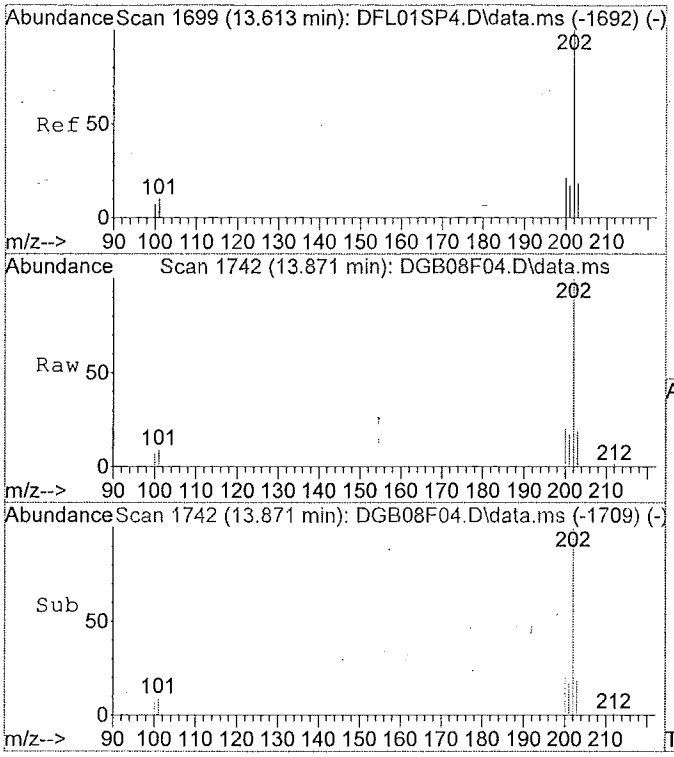


#14
Fluoranthene
Concen: 0.05 ug/ml
RT: 13.52 min Scan# 1672
Delta R.T. -0.01 min
Lab File: DGB08F04.D
Acq: 06/15/2015 18:04

Tgt Ion:202 Resp: 44535

Ion	Ratio	Lower	Upper
202	100		
101	12.5	9.4	17.6
100	6.3	0.0	0.0#
0	0.0	0.0	0.0

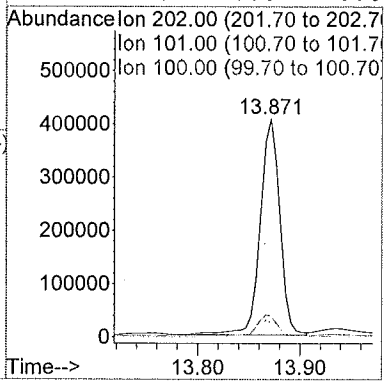


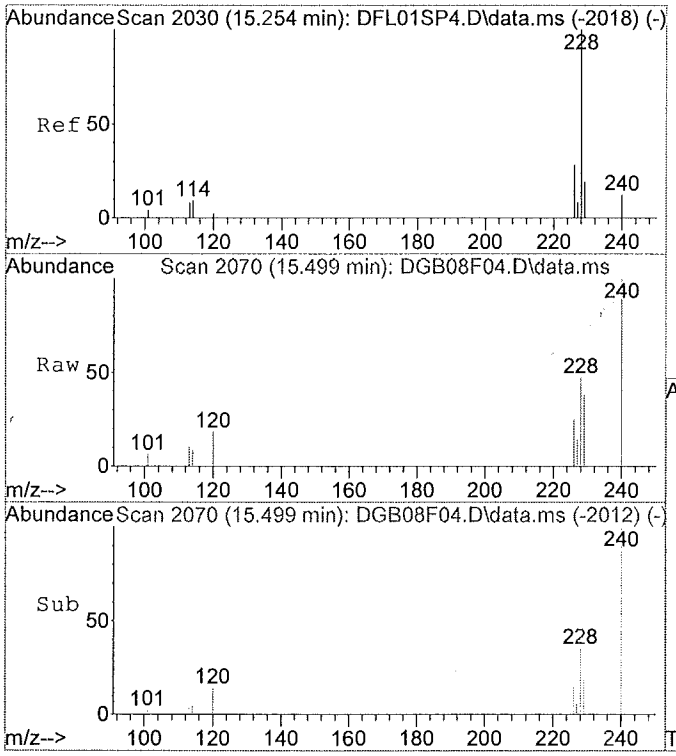


#16
Pyrene
Concen: 0.56 ug/ml
RT: 13.87 min Scan# 1742
Delta R.T. -0.01 min
Lab File: DGB08F04.D
Acq: 06/15/2015 18:04

Tgt Ion:202 Resp: 544300

Ion	Ratio	Lower	Upper
202	100		
101	10.4	10.6	19.6#
100	8.4	9.4	17.4#
0	0.0	0.0	0.0

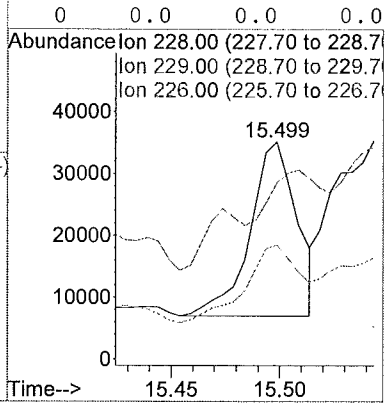


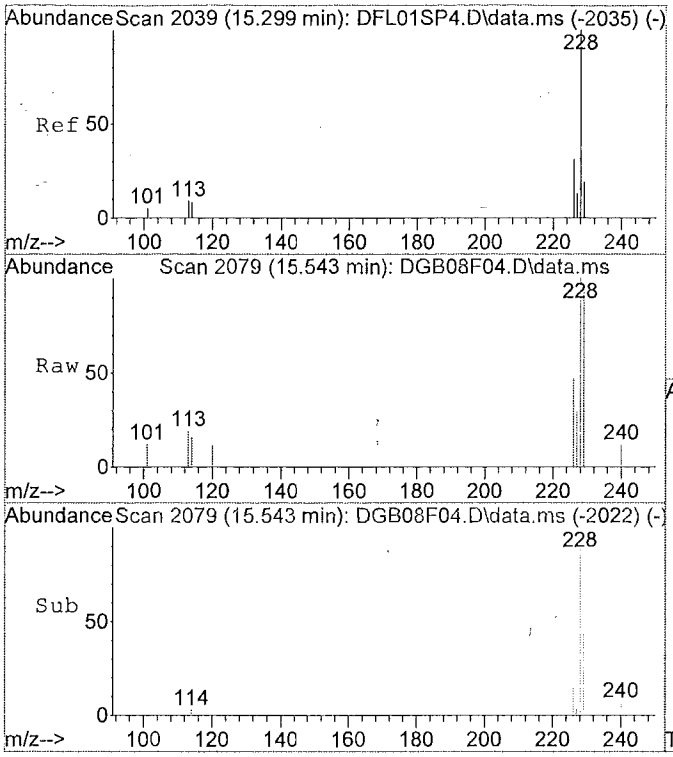


#17
Benzo(a)anthracene
Concen: 0.05 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DGB08F04.D
Acq: 06/15/2015 18:04

Tgt Ion:228 Resp: 42196

Ion	Ratio	Lower	Upper
228	100		
229	61.9	14.5	26.9#
226	51.8	18.5	34.3#
0	0.0	0.0	0.0

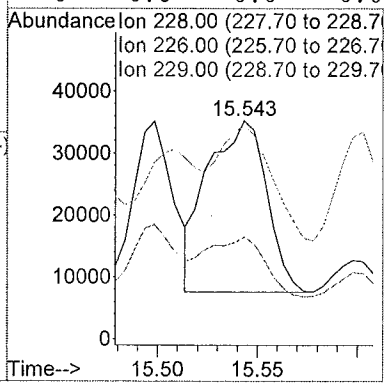


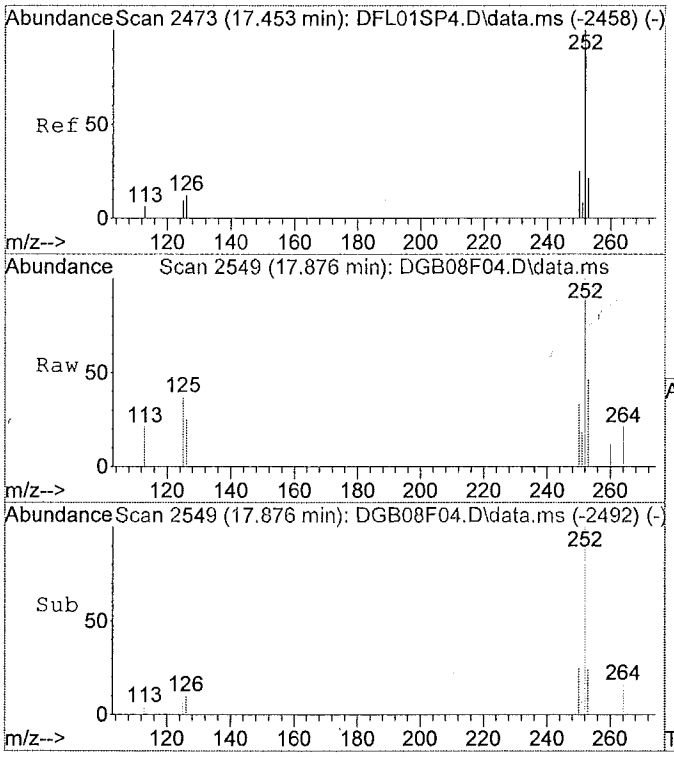


#18
Chrysene
Concen: 0.07 ug/ml
RT: 15.54 min Scan# 2079
Delta R.T. -0.01 min
Lab File: DGB08F04.D
Acq: 06/15/2015 18:04

Tgt Ion:228 Resp: 57160

Ion	Ratio	Lower	Upper
228	100		
226	32.2	19.7	36.7
229	59.6	14.5	26.9#
0	0.0	0.0	0.0

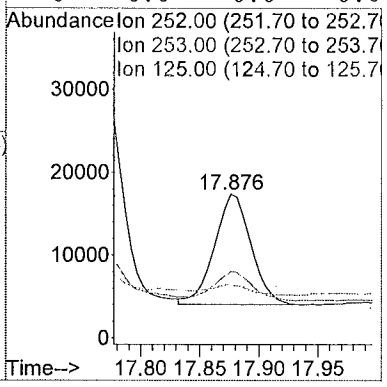


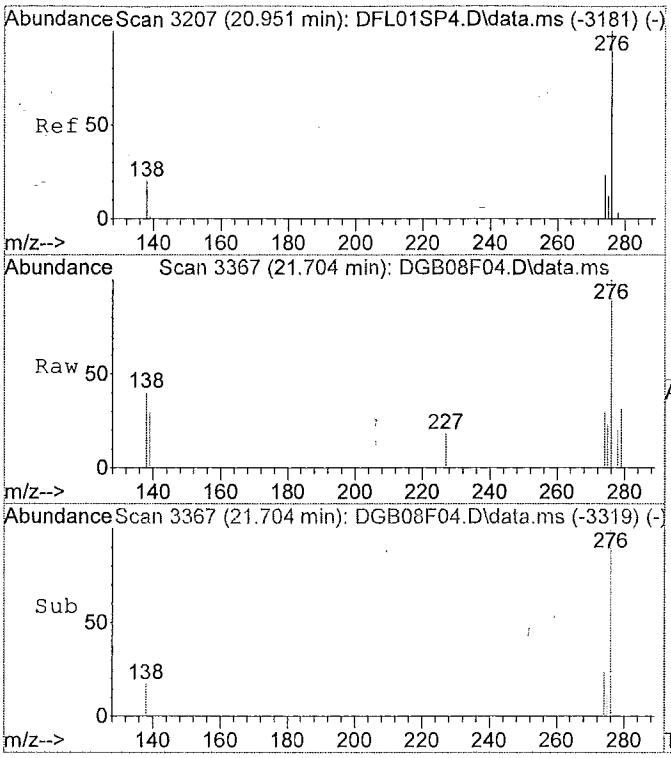


#22
Benzo(a)pyrene
Concen: 0.03 ug/ml
RT: 17.88 min Scan# 2549
Delta R.T. -0.01 min
Lab File: DGB08F04.D
Acq: 06/15/2015 18:04

Tgt Ion:252 Resp: 28639

Ion	Ratio	Lower	Upper
252	100		
253	27.4	15.0	27.8
125	10.2	0.0	0.0#
0	0.0	0.0	0.0

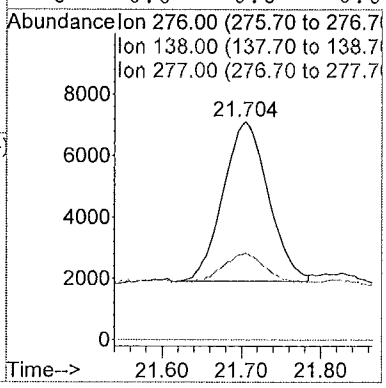




#25
Benzo(g,h,i)perylene
Concen: 0.02 ug/ml
RT: 21.70 min Scan# 3367
Delta R.T. -0.02 min
Lab File: DGB08F04.D
Acq: 06/15/2015 18:04

Tgt Ion:276 Resp: 20555

Ion	Ratio	Lower	Upper
276	100		
138	16.8	16.2	30.0
277	0.0	16.5	30.7#
0	0.0	0.0	0.0

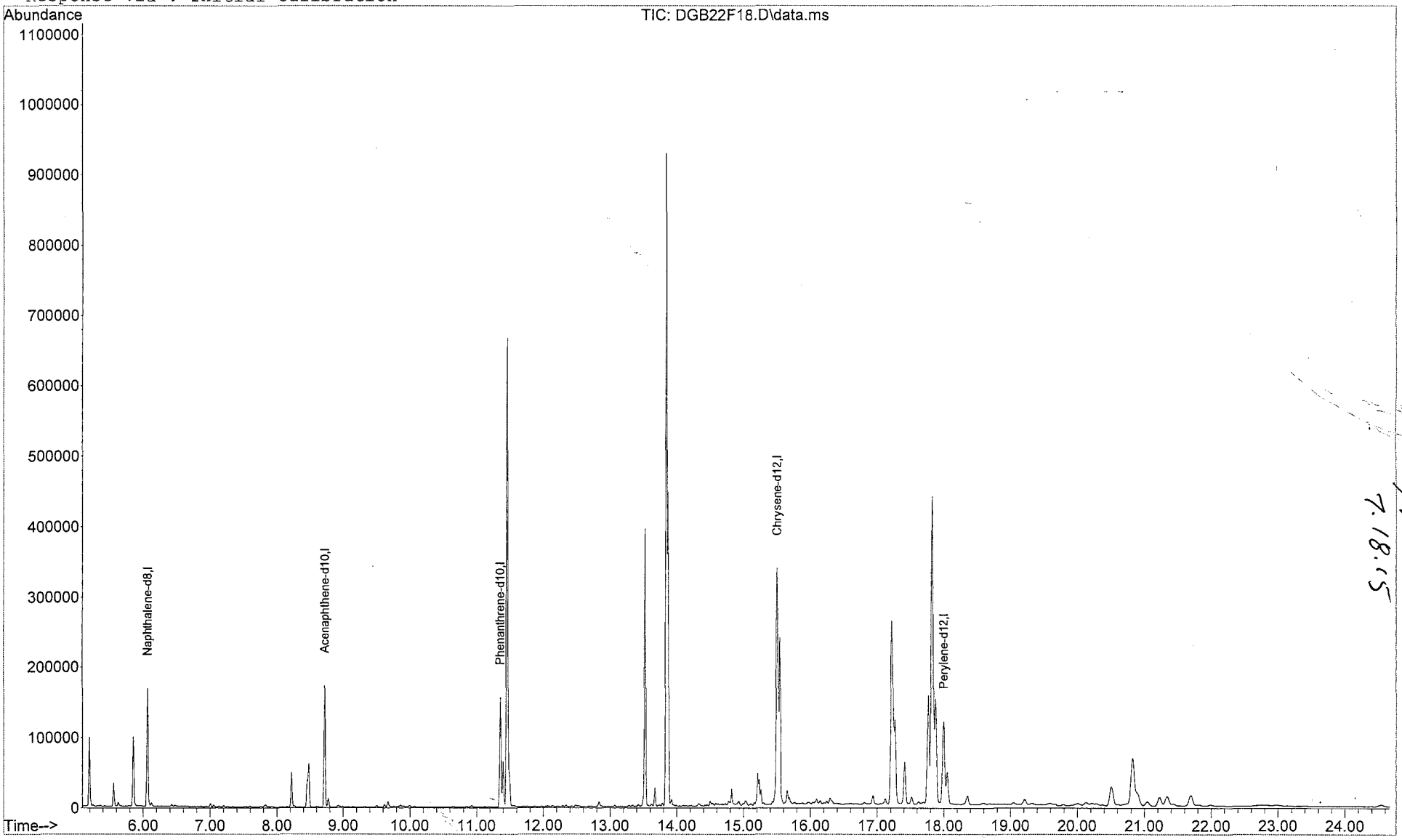


Quantitation Report

Data File : R:\D\2015\JUN15\15JUN15\15JUN15\DGB22F18.D Vial: 19
Acq On : 06/16/2015 01:00 Operator: SY
Sample : 1515542018 F9M37 (20) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 17 15:06:47 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M25

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DFN05F05

Extraction: (Type) SONC

% Moisture: 24. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/16/2015

GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 2.0

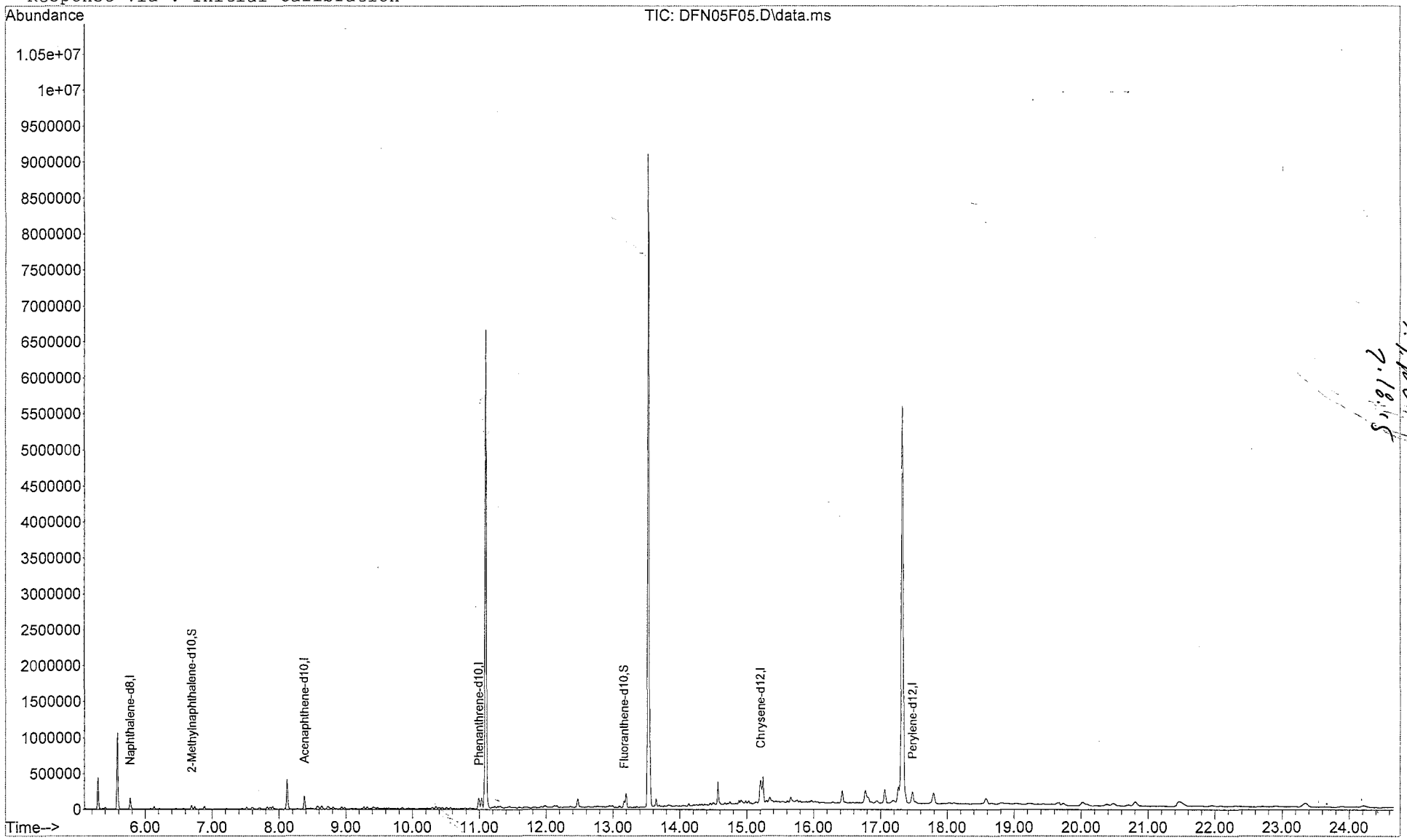
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	1.9	J
91-57-6	2-Methylnaphthalene	5.3	J
208-96-8	Acenaphthylene	3.0	J
83-32-9	Acenaphthene	8.5	U
86-73-7	Fluorene	2.7	J
87-86-5	Pentachlorophenol	17.	U
85-01-8	Phenanthrene	22.	
120-12-7	Anthracene	9.8	
206-44-0	Fluoranthene	22.	
129-00-0	Pyrene	61.	
56-55-3	Benzo(a)anthracene	20.	
218-01-9	Chrysene	36.	
205-99-2	Benzo(b)fluoranthene	24.	
207-08-9	Benzo(k)fluoranthene	5.8	J
50-32-8	Benzo(a)pyrene	15.	
193-39-5	Indeno(1,2,3-cd)pyrene	15.	
53-70-3	Dibenzo(a,h)anthracene	4.8	J
191-24-2	Benzo(g,h,i)perylene	16.	

Quantitation Report

Data File : R:\D\2015\JUL15\16JUL15DPM\DFN05F05.D Vial: 4
Acq On : 07/16/2015 10:15 Operator: DJC
Sample : 1515542005 F9M25 (2) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jul 18 12:25:37 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



Quantitation Report

Data File : R:\D\2015\JUL15\16JUL15DPM\DFN05F05.D Vial: 4
Acq On : 07/16/2015 10:15 Operator: DJC
Sample : 1515542005 F9M25 (2) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 18 12:25:37 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

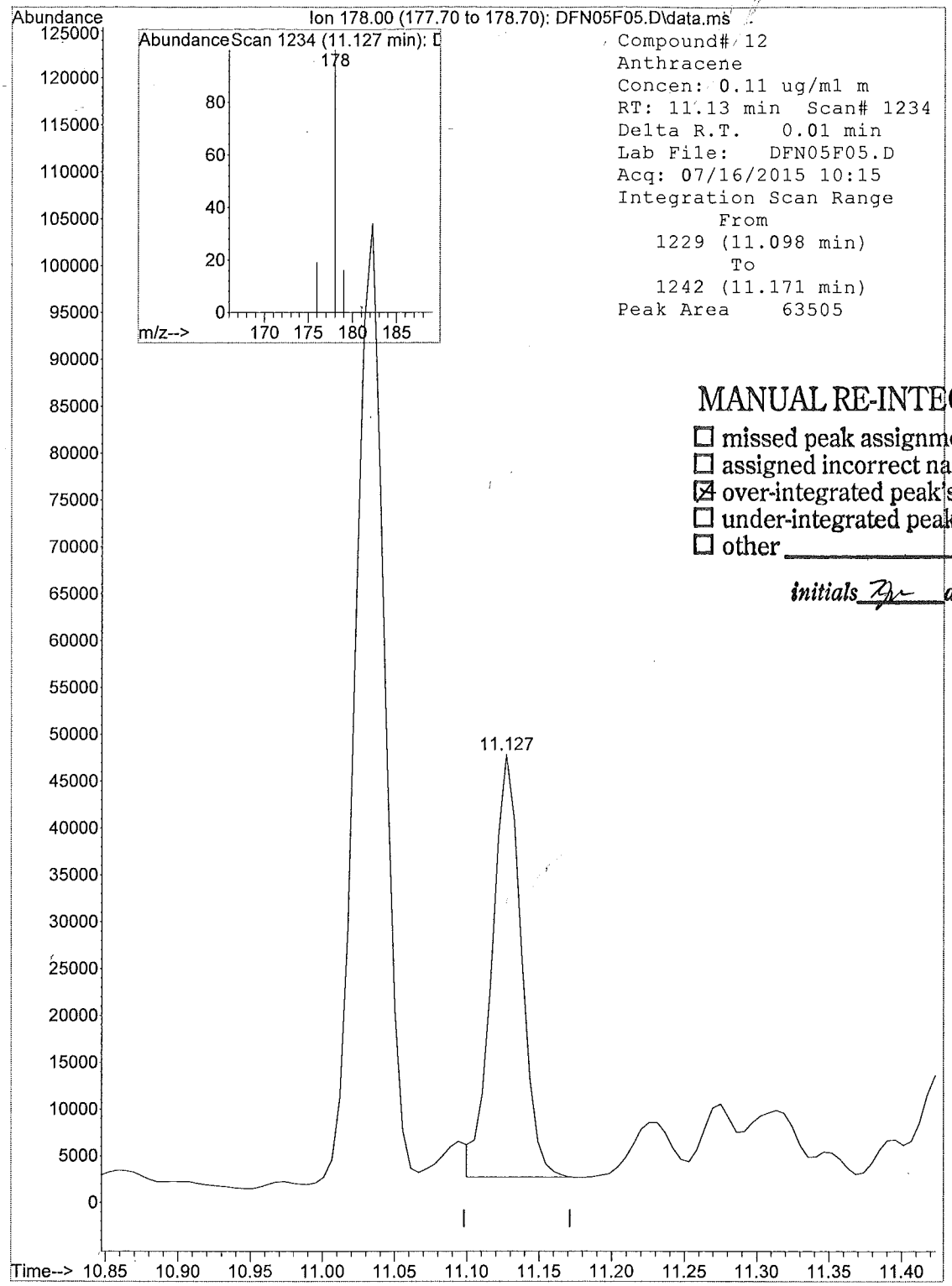
Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.77	136	175669	0.40 ug/ml	
5) Acenaphthene-d10	8.38	164	119782	0.40 ug/ml	
9) Phenanthrene-d10	10.99	188	198971	0.40 ug/ml	
15) Chrysene-d12	15.21	240	233674	0.40 ug/ml	
19) Perylene-d12	17.47	264	258188	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.69	152	52871	0.187ug/mL	
13) Fluoranthene-d10	13.16	212	108641	0.200ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.80	128	10101	0.022ug/ml	95
4) 2-Methylnaphthalene	6.74	142	18135	0.061ug/ml	99
6) Acenaphthylene	8.14	152	17984	0.034ug/ml	65
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	9.32	166	12167	0.031ug/ml	93
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.03	178	145309	0.254ug/ml	98
12) Anthracene	11.13	178	63505	0.114ug/ml m	88
14) Fluoranthene	13.20	202	166391	0.255ug/ml	98
16) Pyrene	13.55	202	521249	0.711ug/ml	80
17) Benzo(a)anthracene	15.20	228	144914	0.233ug/ml	72
18) Chrysene	15.24	228	275107	0.418ug/ml	90
20) Benzo(b)fluoranthene	16.77	252	223387	0.278ug/ml	98
21) Benzo(k)fluoranthene	16.81	252	55779	0.067ug/ml m	97
22) Benzo(a)pyrene	17.36	252	137590	0.179ug/ml	93
23) Indeno(1,2,3-c,d)pyrene	20.03	276	120483	0.179ug/ml	100
24) Dibenzo(a,h)anthracene	20.08	278	41816	0.056ug/ml	90
25) Benzo(g,h,i)perylene	20.81	276	141155	0.187ug/ml	70

7.18.15

7.18.15

(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



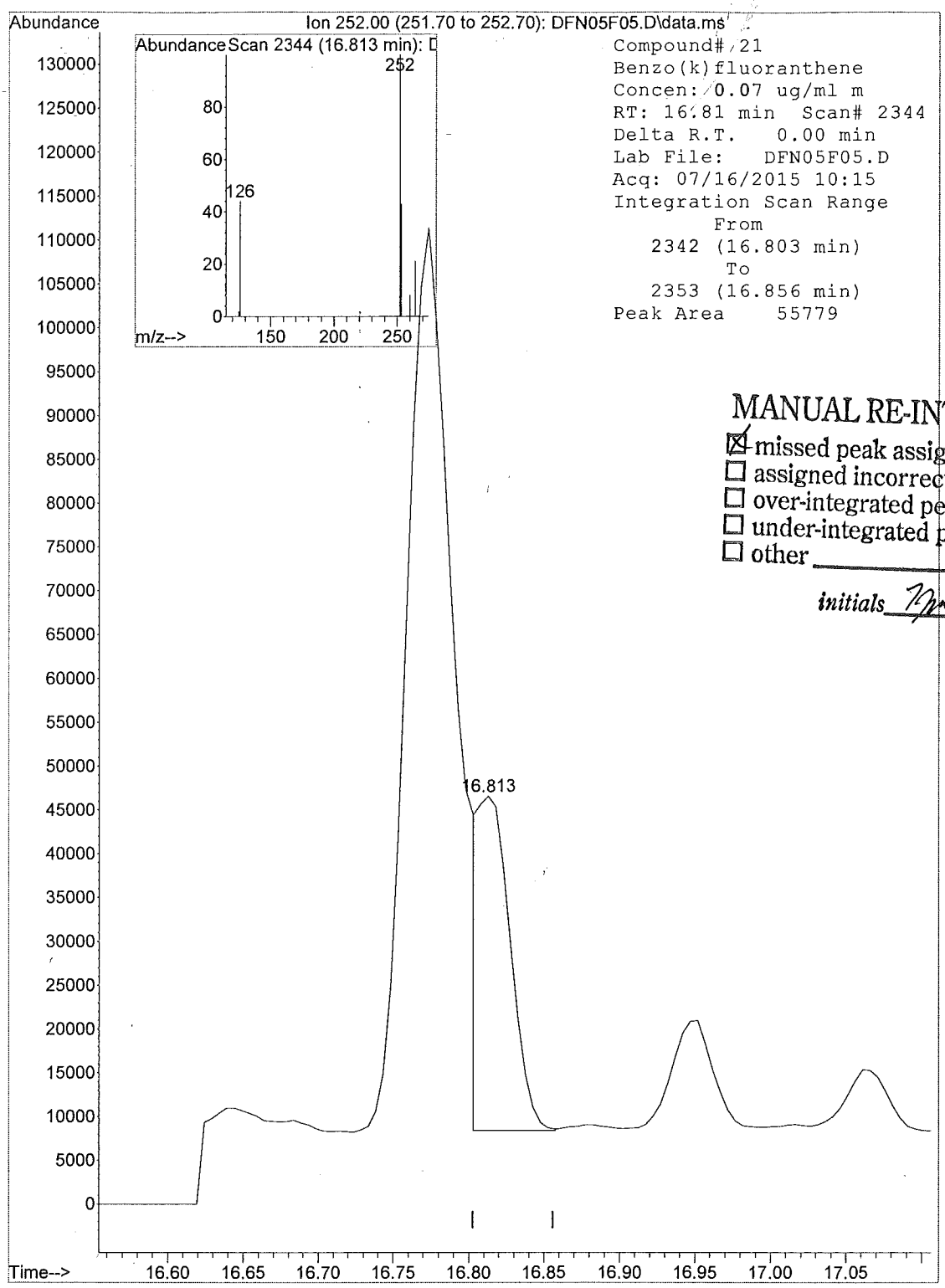
Compound# 12
Anthracene
Concen: 0.11 ug/ml m
RT: 11.13 min Scan# 1234
Delta R.T. 0.01 min
Lab File: DFN05F05.D
Acq: 07/16/2015 10:15
Integration Scan Range
From
1229 (11.098 min)
To
1242 (11.171 min)
Peak Area 63505

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☒ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials ZJ *date* 7.18.15

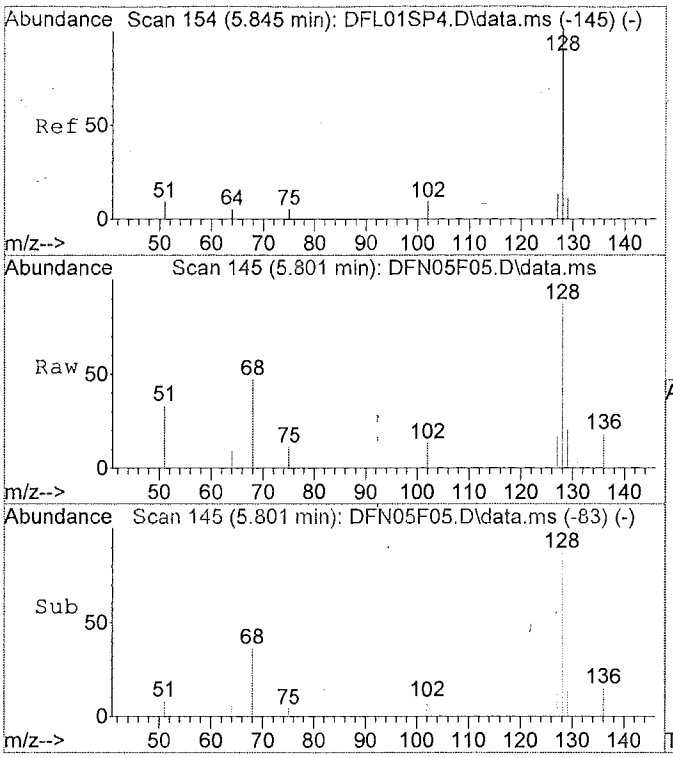
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

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

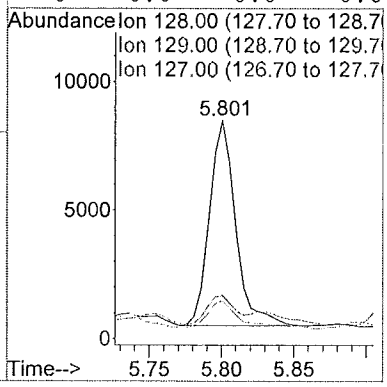
initials MR *date* 7.18.15

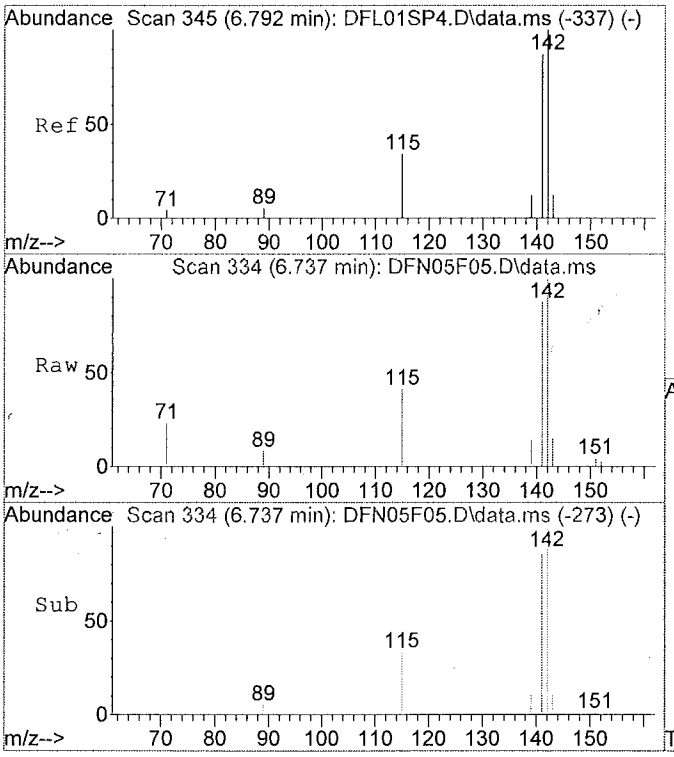


#2
Naphthalene
Concen: 0.02 ug/ml
RT: 5.80 min Scan# 145
Delta R.T. 0.01 min
Lab File: DFN05F05.D
Acq: 07/16/2015 10:15

Tgt Ion:128 Resp: 10101

Ion	Ratio	Lower	Upper
128	100		
129	14.7	0.0	0.0#
127	17.8	11.1	20.5
0	0.0	0.0	0.0

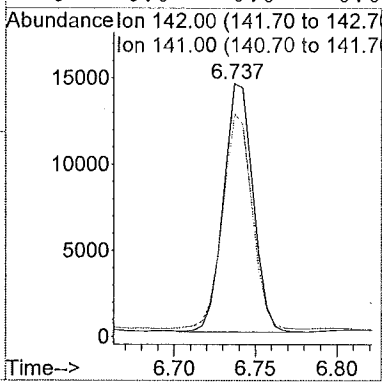


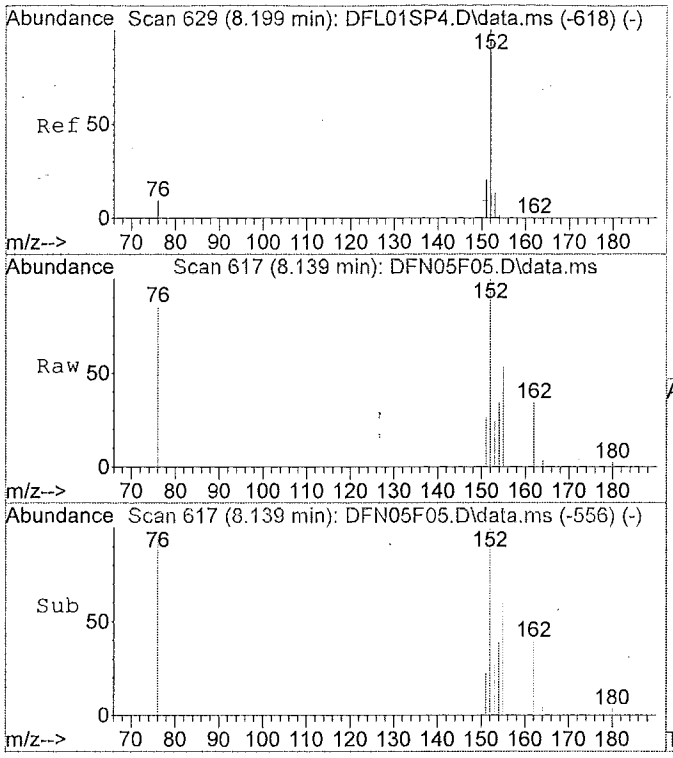


#4
2-Methylnaphthalene
Concen: 0.06 ug/ml
RT: 6.74 min Scan# 334
Delta R.T. 0.00 min
Lab File: DFN05F05.D
Acq: 07/16/2015 10:15

Tgt Ion:142 Resp: 18135

Ion	Ratio	Lower	Upper
142	100		
141	86.2	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

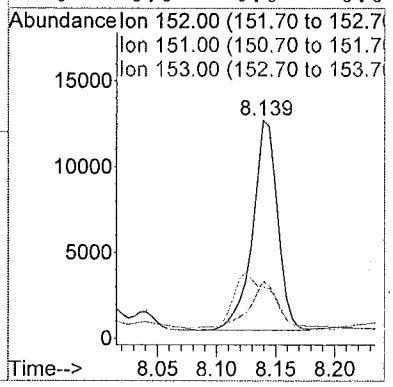


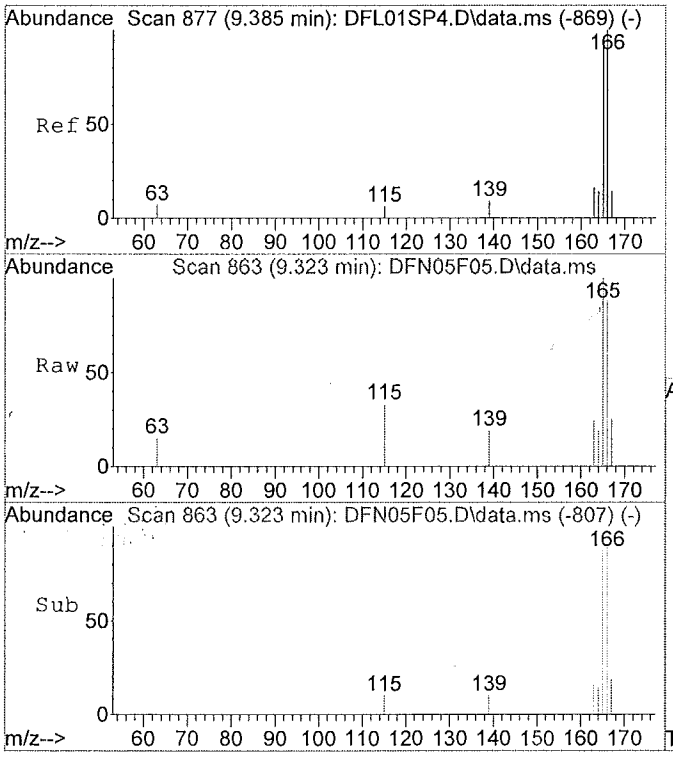


#6
Acenaphthylene
Concen: 0.03 ug/ml
RT: 8.14 min Scan# 617
Delta R.T. 0.00 min
Lab File: DFN05F05.D
Acq: 07/16/2015 10:15

Tgt Ion:152 Resp: 17984

Ion	Ratio	Lower	Upper
152	100		
151	26.9	15.5	28.7
153	44.1	8.8	16.4#
0	0.0	0.0	0.0

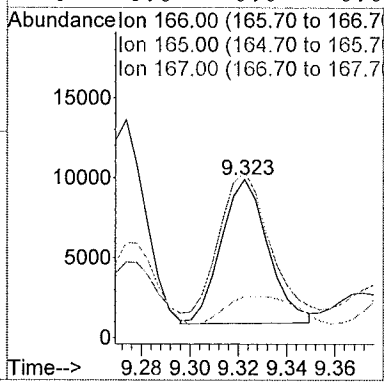


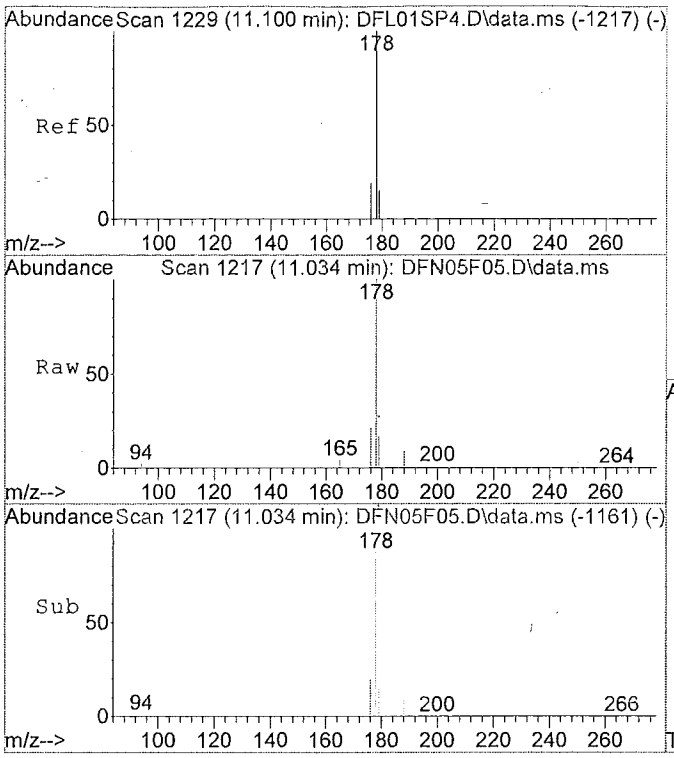


#8
Fluorene
Concen: 0.03 ug/ml
RT: 9.32 min Scan# 863
Delta R.T. 0.00 min
Lab File: DFN05F05.D
Acq: 07/16/2015 10:15

Tgt Ion:166 Resp: 12167

Ion	Ratio	Lower	Upper
166	100		
165	101.4	66.3	123.1
167	28.7	0.0	0.0#
0	0.0	0.0	0.0

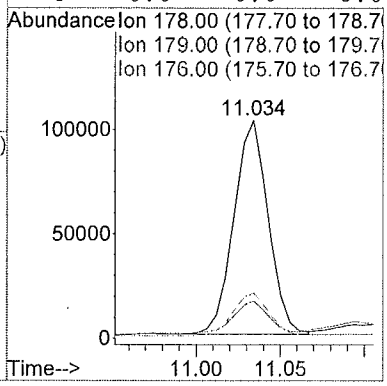


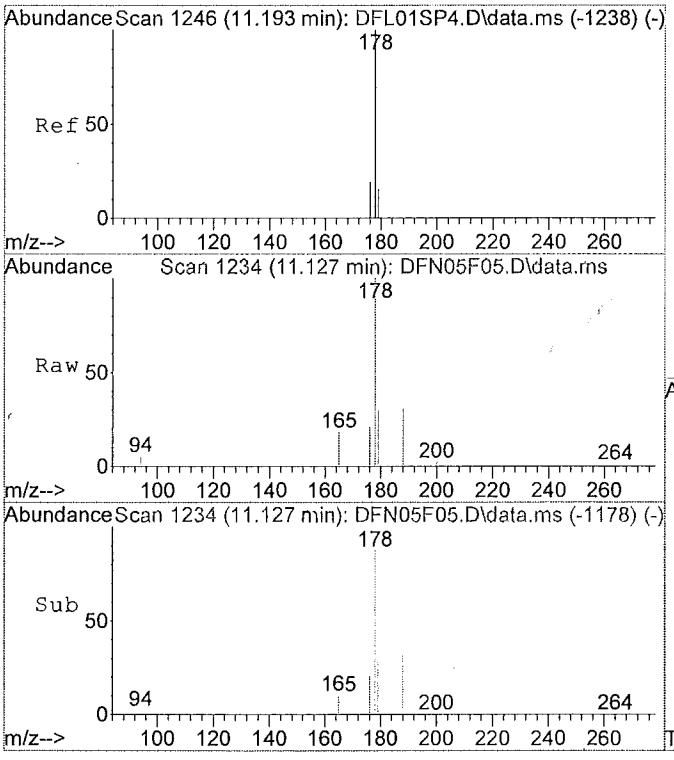


#11
Phenanthrene
Concen: 0.25 ug/ml
RT: 11.03 min Scan# 1217
Delta R.T. 0.01 min
Lab File: DFN05F05.D
Acq: 07/16/2015 10:15

Tgt Ion:178 Resp: 145309

Ion	Ratio	Lower	Upper
178	100		
179	15.2	11.1	20.5
176	21.4	14.1	26.1
0	0.0	0.0	0.0

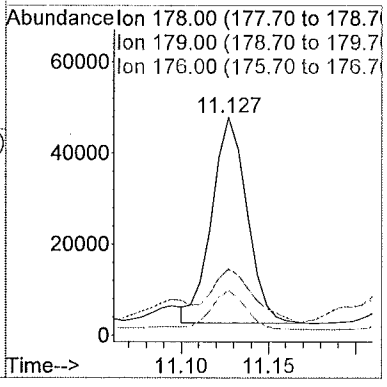


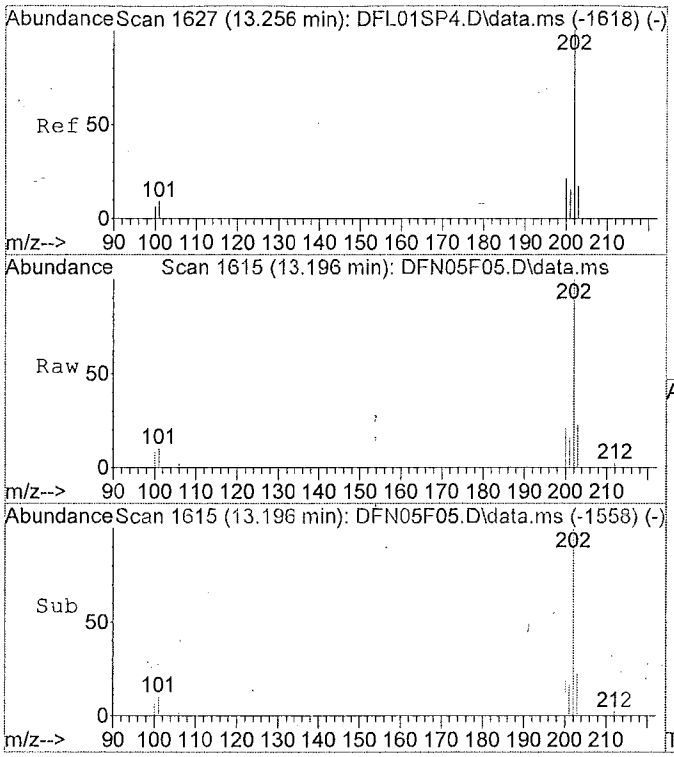


#12
Anthracene
Concen: 0.11 ug/ml m
RT: 11.13 min Scan# 1234
Delta R.T. 0.01 min
Lab File: DFN05F05.D
Acq: 07/16/2015 10:15

Tgt Ion:178 Resp: 63505

Ion	Ratio	Lower	Upper
178	100		
179	30.3	11.6	21.6#
176	21.2	13.9	25.7
0	0.0	0.0	0.0

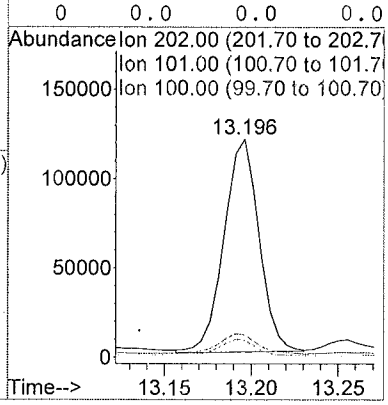


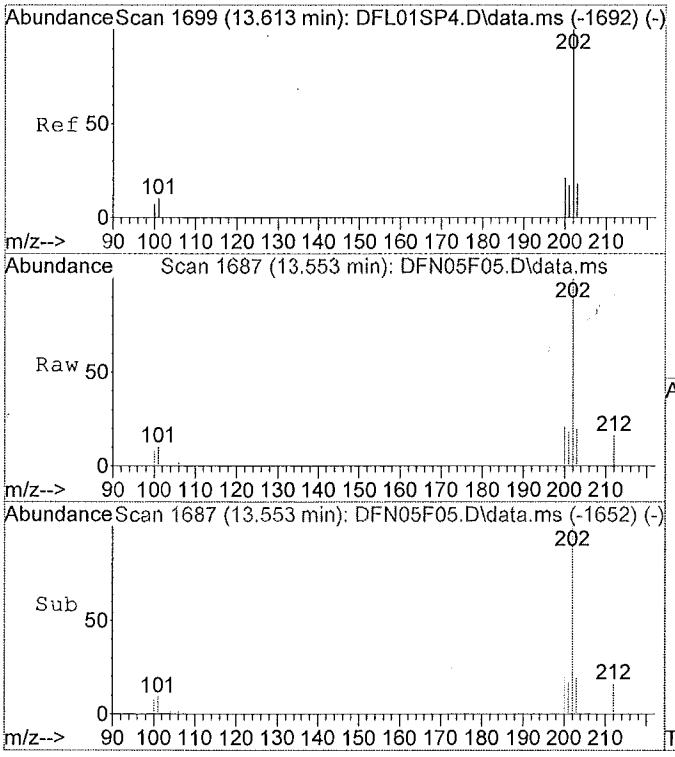


#14
Fluoranthene
Concen: 0.26 ug/ml
RT: 13.20 min Scan# 1615
Delta R.T. 0.01 min
Lab File: DFN05F05.D
Acq: 07/16/2015 10:15

Tgt Ion:202 Resp: 166391

Ion	Ratio	Lower	Upper
202	100		
101	12.8	9.4	17.6
100	9.4	0.0	0.0#
0	0.0	0.0	0.0

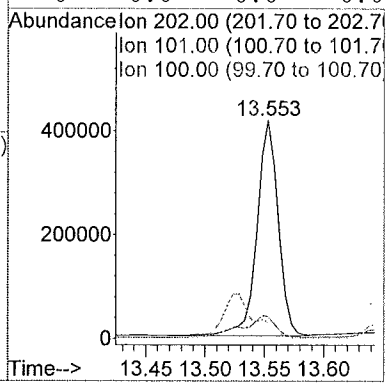


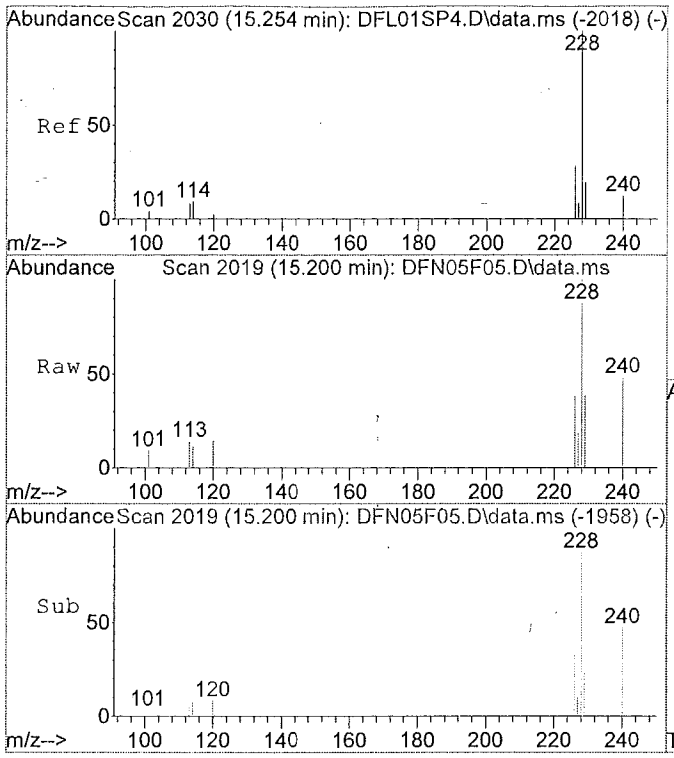


#16
Pyrene
Concen: 0.71 ug/ml
RT: 13.55 min Scan# 1687
Delta R.T. 0.01 min
Lab File: DFN05F05.D
Acq: 07/16/2015 10:15

Tgt Ion:202 Resp: 521249

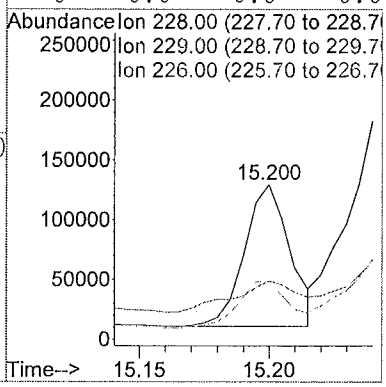
Ion	Ratio	Lower	Upper
202	100		
101	15.6	10.6	19.6
100	30.2	9.4	17.4#
0	0.0	0.0	0.0

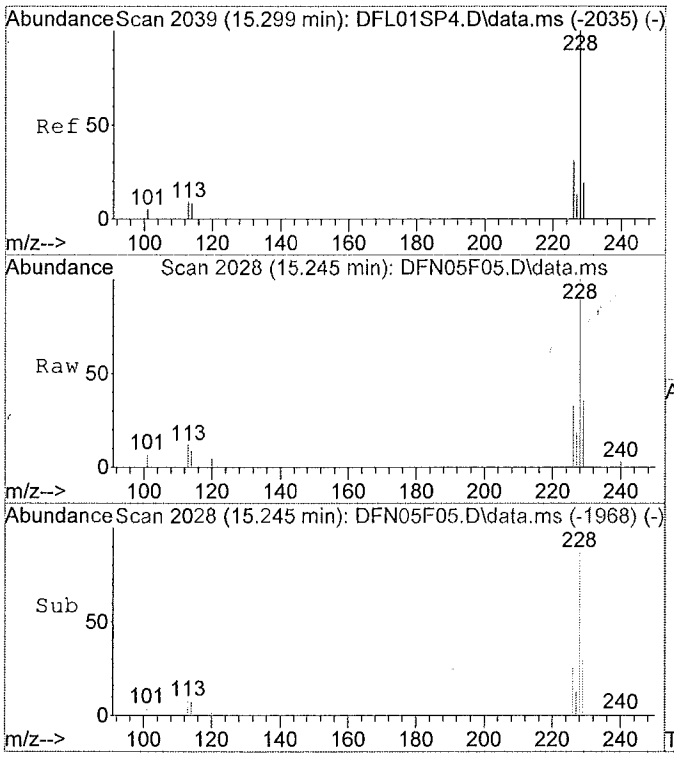




#17
Benzo(a)anthracene
Concen: 0.23 ug/ml
RT: 15.20 min Scan# 2019
Delta R.T. 0.01 min
Lab File: DFN05F05.D
Acq: 07/16/2015 10:15

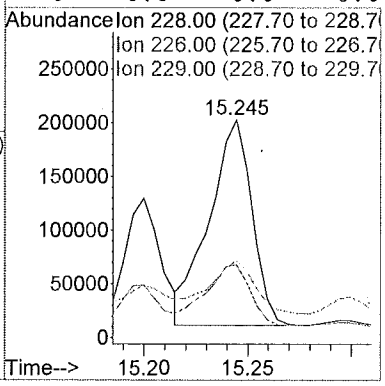
Tgt Ion:228	Resp:	144914	
Ion	Ratio	Lower	Upper
228	100		
229	38.0	14.5	26.9#
226	37.3	18.5	34.3#
0	0.0	0.0	0.0

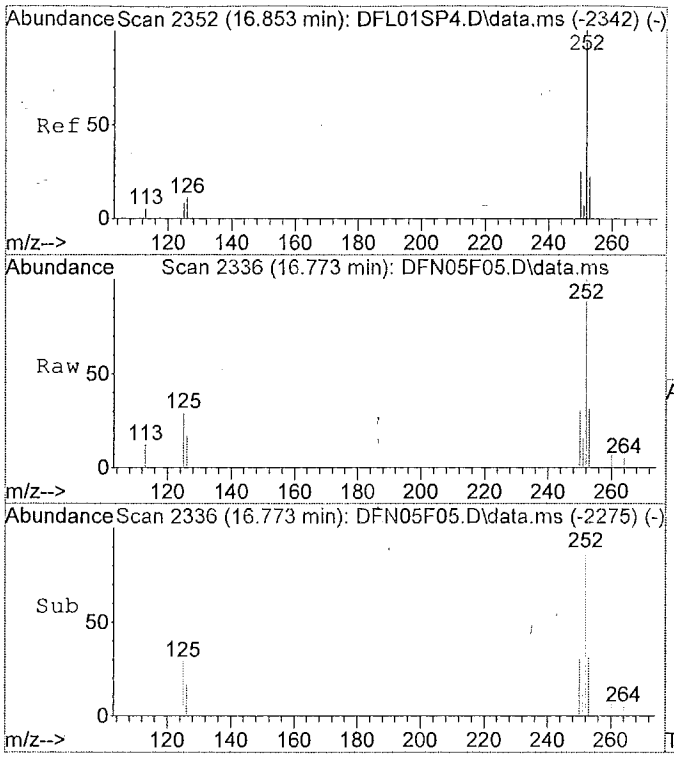




#18
Chrysene
Concen: 0.42 ug/ml
RT: 15.24 min Scan# 2028
Delta R.T. 0.00 min
Lab File: DFN05F05.D
Acq: 07/16/2015 10:15

Tgt Ion:228	Resp:	275107	
Ion	Ratio	Lower	Upper
228	100		
226	30.7	19.7	36.7
229	29.0	14.5	26.9#
0	0.0	0.0	0.0

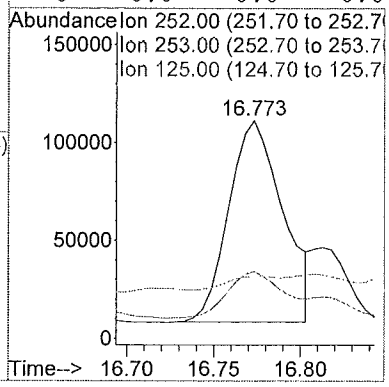


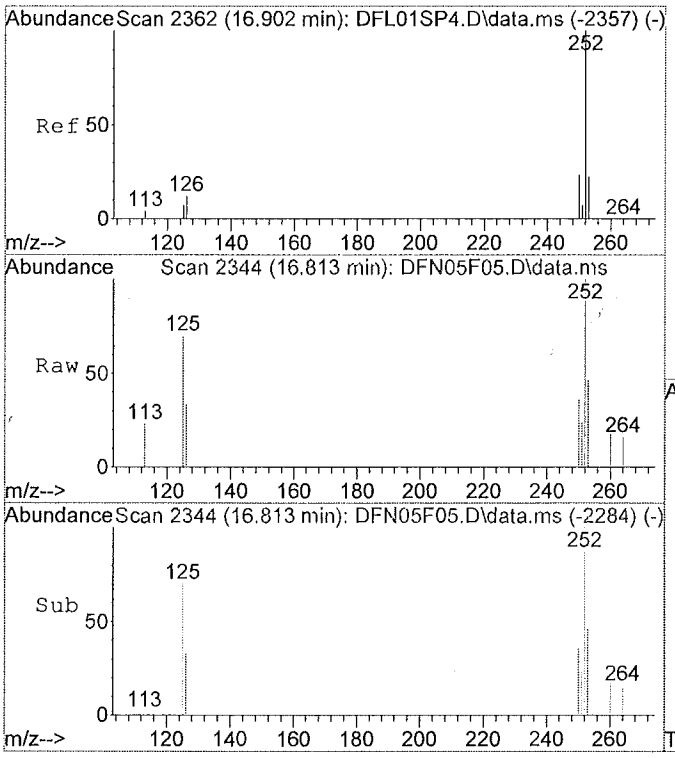


#20
Benzo(b)fluoranthene
Concen: 0.28 ug/ml
RT: 16.77 min Scan# 2336
Delta R.T. 0.01 min
Lab File: DFN05F05.D
Acq: 07/16/2015 10:15

Tgt Ion:252 Resp: 223387

Ion	Ratio	Lower	Upper
252	100		
253	22.6	15.3	28.3
125	0.0	0.0	0.0
0	0.0	0.0	0.0

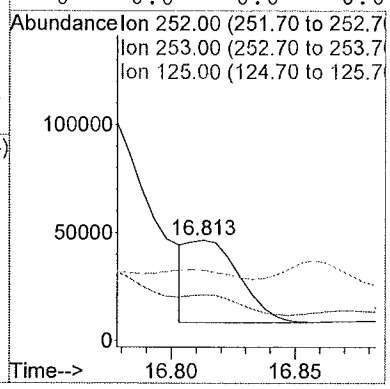


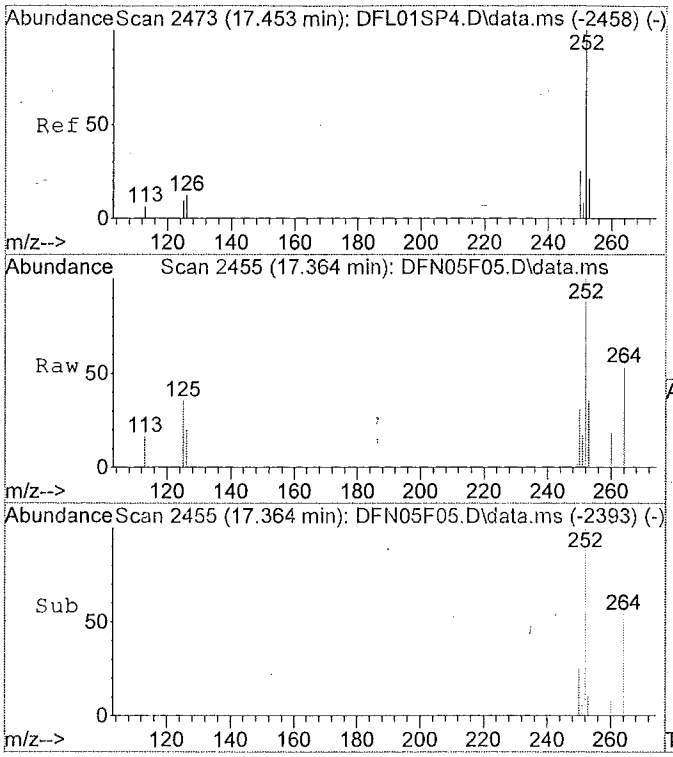


#21
Benzo(k)fluoranthene
Concen: 0.07 ug/ml m
RT: 16.81 min Scan# 2344
Delta R.T. 0.00 min
Lab File: DFN05F05.D
Acq: 07/16/2015 10:15

Tgt Ion:252 Resp: 55779

Ion	Ratio	Lower	Upper
252	100		
253	90.5	15.0	27.8#
125	0.0	0.0	0.0
0	0.0	0.0	0.0

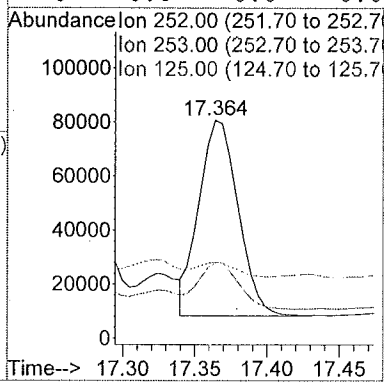


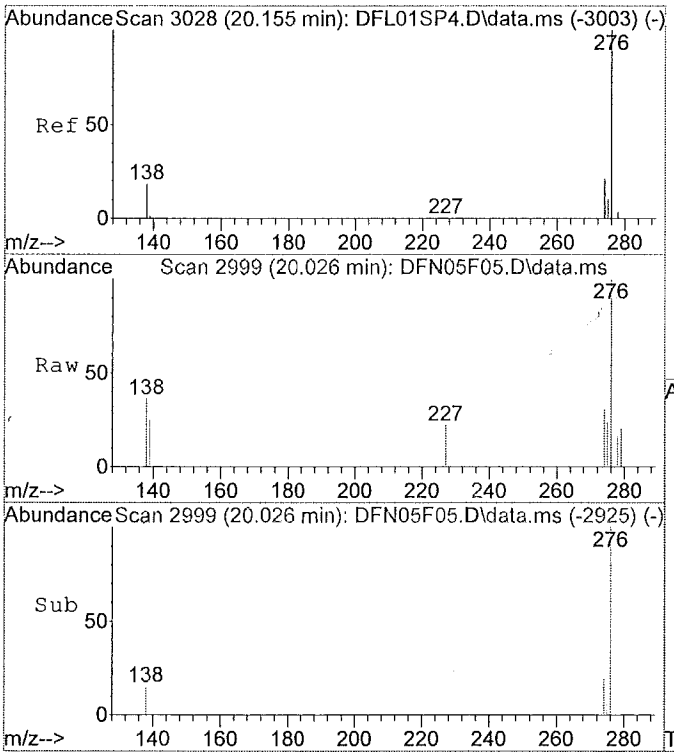


#22
Benzo(a)pyrene
Concen: 0.18 ug/ml
RT: 17.36 min Scan# 2455
Delta R.T. 0.01 min
Lab File: DFN05F05.D
Acq: 07/16/2015 10:15

Tgt Ion:252 Resp: 137590

Ion	Ratio	Lower	Upper
252	100		
253	24.7	15.0	27.8
125	7.6	0.0	0.0#
0	0.0	0.0	0.0

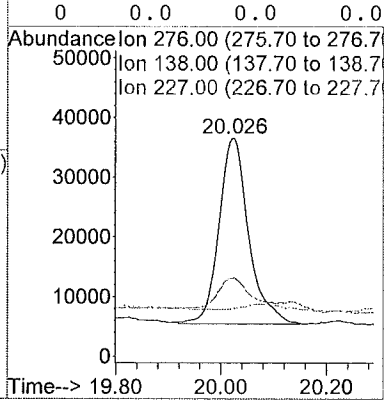


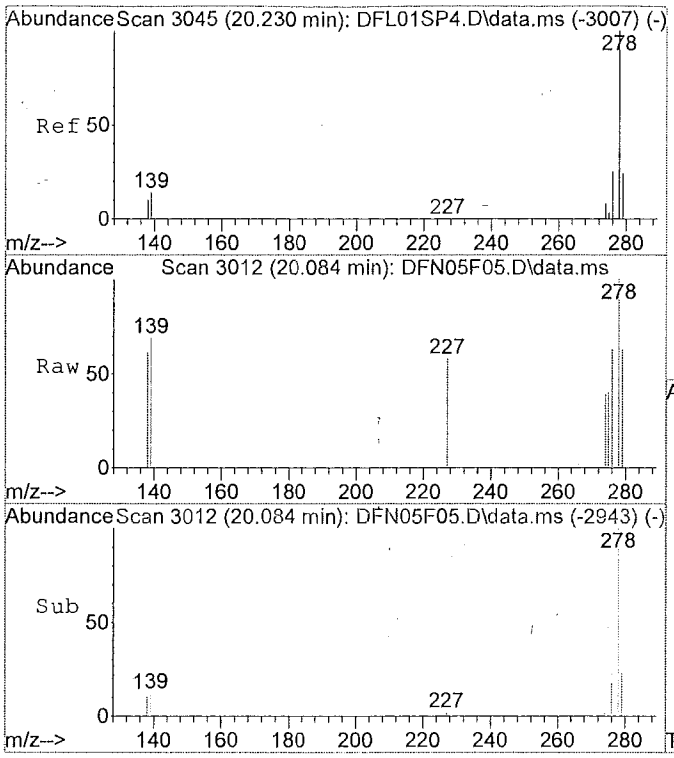


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.18 ug/ml
RT: 20.03 min Scan# 2999
Delta R.T. 0.03 min
Lab File: DFN05F05.D
Acq: 07/16/2015 10:15

Tgt Ion:276 Resp: 120483

Ion	Ratio	Lower	Upper
276	100		
138	16.6	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

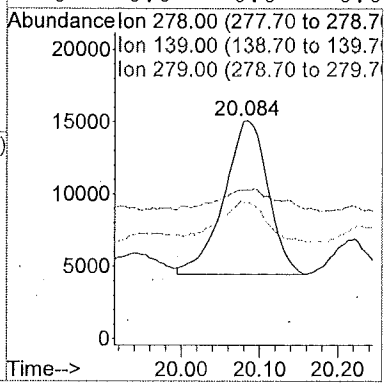


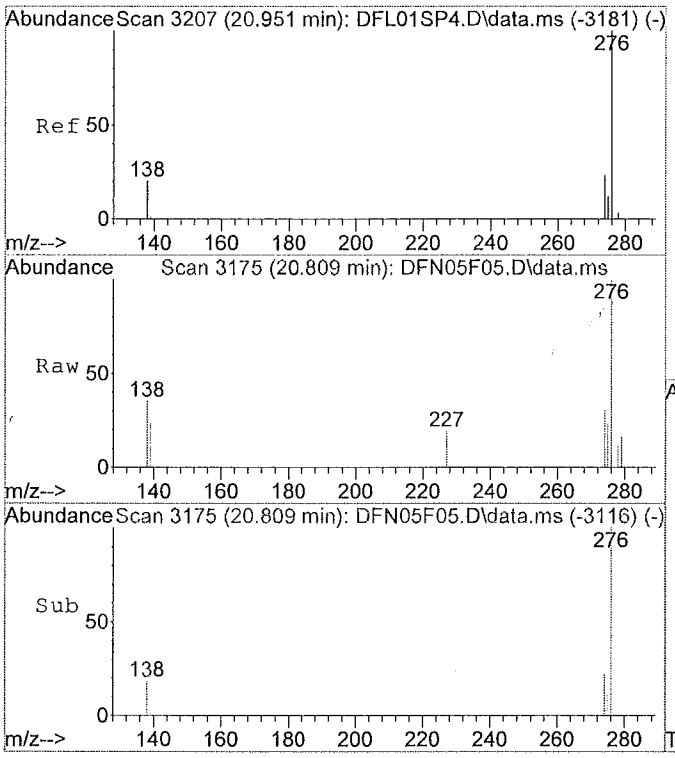


#24
Dibenzo(a,h)anthracene
Concen: 0.06 ug/ml
RT: 20.08 min Scan# 3012
Delta R.T. 0.01 min
Lab File: DFN05F05.D
Acq: 07/16/2015 10:15

Tgt Ion:278 Resp: 41816

Ion	Ratio	Lower	Upper
278	100		
139	12.1	0.0	0.0#
279	27.1	15.8	29.3
0	0.0	0.0	0.0

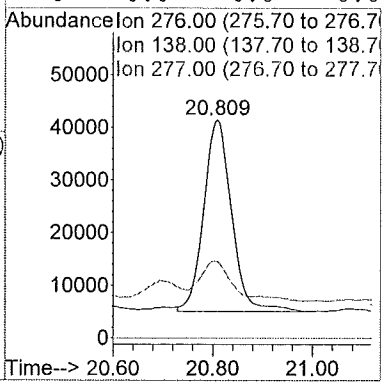




#25
Benzo(g,h,i)perylene
Concen: 0.19 ug/ml
RT: 20.81 min Scan# 3175
Delta R.T. 0.03 min
Lab File: DFN05F05.D
Acq: 07/16/2015 10:15

Tgt Ion:276 Resp: 141155

Ion	Ratio	Lower	Upper
276	100		
138	17.9	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.

F9M26

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DFN06F06

Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/16/2015

GPC Cleanup: (Y/N) Y pH: 8.1 Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	7.8	U
91-57-6	2-Methylnaphthalene	7.8	U
208-96-8	Acenaphthylene	2.1	J
83-32-9	Acenaphthene	7.8	U
86-73-7	Fluorene	7.8	U
87-86-5	Pentachlorophenol	16.	U
85-01-8	Phenanthrene	12.	
120-12-7	Anthracene	5.4	J
206-44-0	Fluoranthene	15.	
129-00-0	Pyrene	24.	
56-55-3	Benzo(a)anthracene	17.	
218-01-9	Chrysene	37.	
205-99-2	Benzo(b)fluoranthene	21.	
207-08-9	Benzo(k)fluoranthene	5.2	J
50-32-8	Benzo(a)pyrene	14.	
193-39-5	Indeno(1,2,3-cd)pyrene	14.	
53-70-3	Dibenzo(a,h)anthracene	4.9	J
191-24-2	Benzo(g,h,i)perylene	16.	

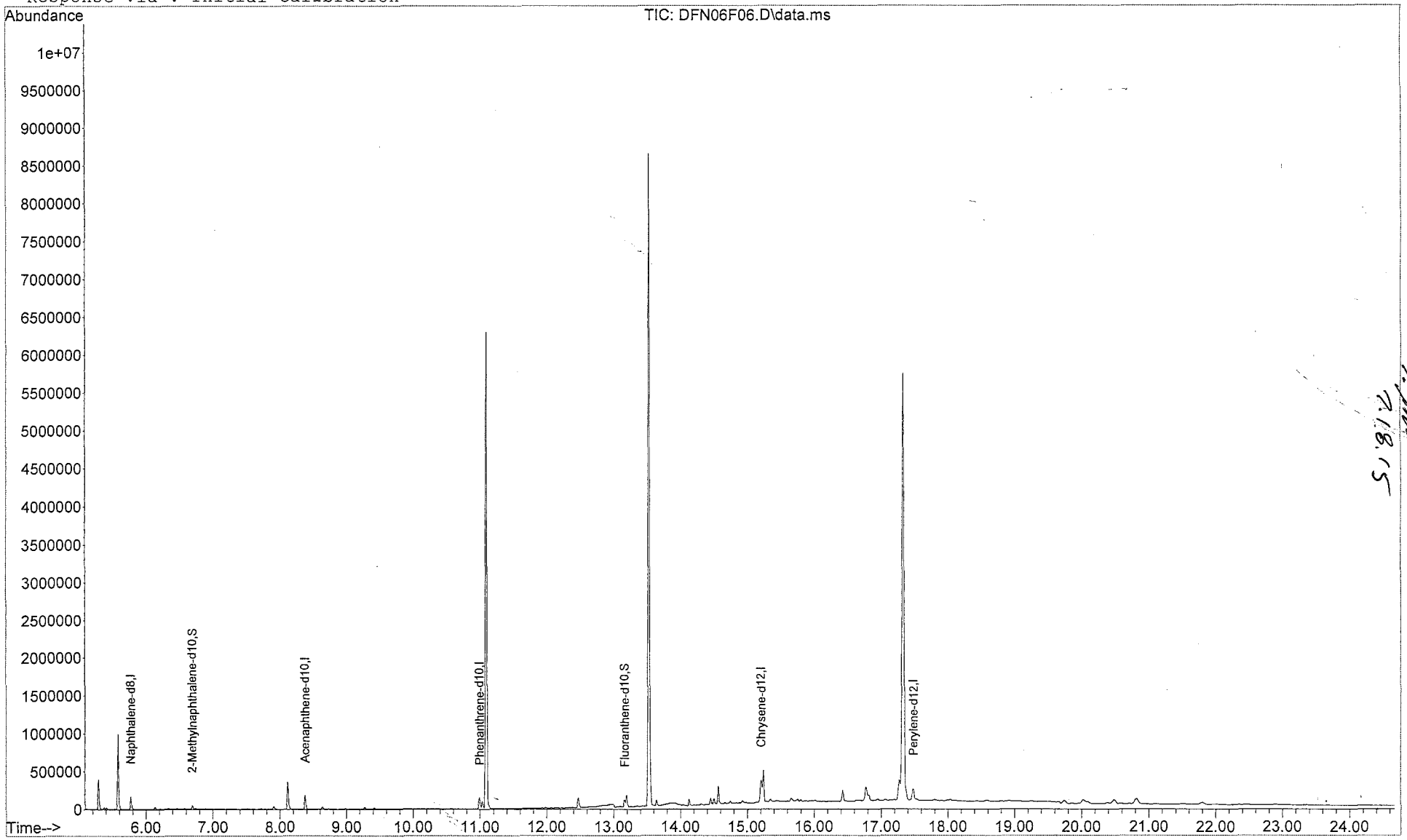
Quantitation Report

Data File : R:\D\2015\JUL15\16JUL15DPM\DFN06F06.D
Acq On : 07/16/2015 10:46
Sample : 1515542006 F9M26 (2)
Misc : . SOIL SIM
MS Integration Params: rteint.p

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

Quant Time: Jul 18 12:26:33 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



Quantitation Report

Data File : R:\D\2015\JUL15\16JUL15DPM\DFN06F06.D Vial: 5
Acq On : 07/16/2015 10:46 Operator: DJC
Sample : 1515542006 F9M26 (2) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 18 12:26:33 2015 Results File: DSOM_SIMJ2.RES

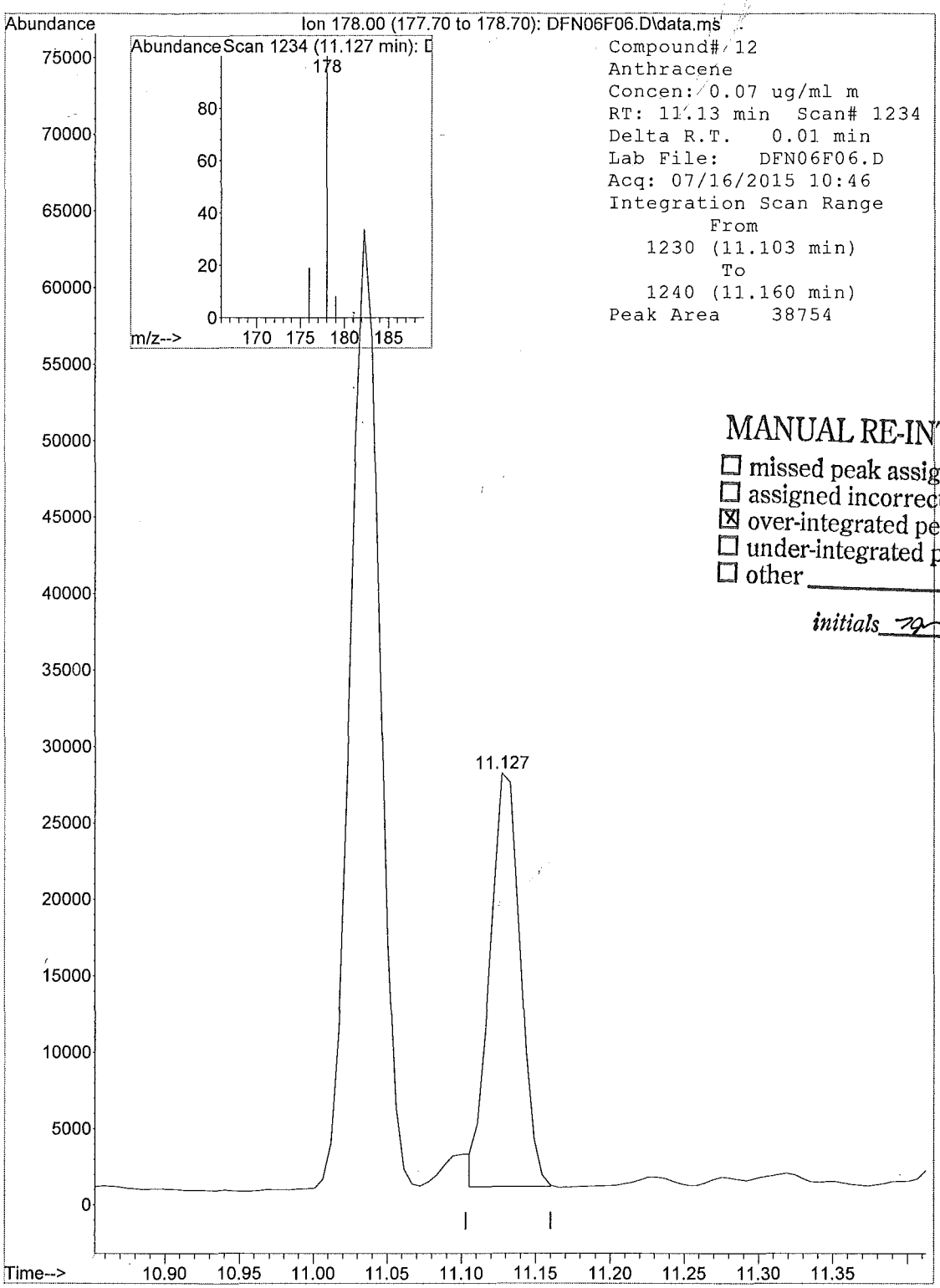
Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.78	136	178293	0.40 ug/ml	
5) Acenaphthene-d10	8.38	164	121240	0.40 ug/ml	
9) Phenanthrene-d10	11.00	188	201579	0.40 ug/ml	
15) Chrysene-d12	15.21	240	239004	0.40 ug/ml	
19) Perylene-d12	17.48	264	268283	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.69	152	49798	0.173ug/mL	
13) Fluoranthene-d10	13.17	212	104088	0.189ug/mL	
Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	0.00	142		Not Detected	
6) Acenaphthylene	8.14	152	13849	0.026ug/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	88943	0.153ug/ml	99
12) Anthracene	11.13	178	38754	0.069ug/ml m	98 7.18.15
14) Fluoranthene	13.20	202	122839	0.186ug/ml	89
16) Pyrene	13.56	202	232003	0.309ug/ml	75
17) Benzo(a)anthracene	15.20	228	139955	0.220ug/ml	91
18) Chrysene	15.24	228	314624	0.467ug/ml	90
20) Benzo(b)fluoranthene	16.78	252	227452	0.272ug/ml	98
21) Benzo(k)fluoranthene	16.82	252	57596	0.066ug/ml m	97 7.18.15
22) Benzo(a)pyrene	17.37	252	138969	0.174ug/ml	95
23) Indeno(1,2,3-c,d)pyrene	20.03	276	125073	0.179ug/ml	100
24) Dibenzo(a,h)anthracene	20.10	278	48289	0.062ug/ml	89
25) Benzo(g,h,i)perylene	20.82	276	162710	0.207ug/ml	71

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

: 00079

M A N U A L I N T E G R A T I O N FOR Anthracene

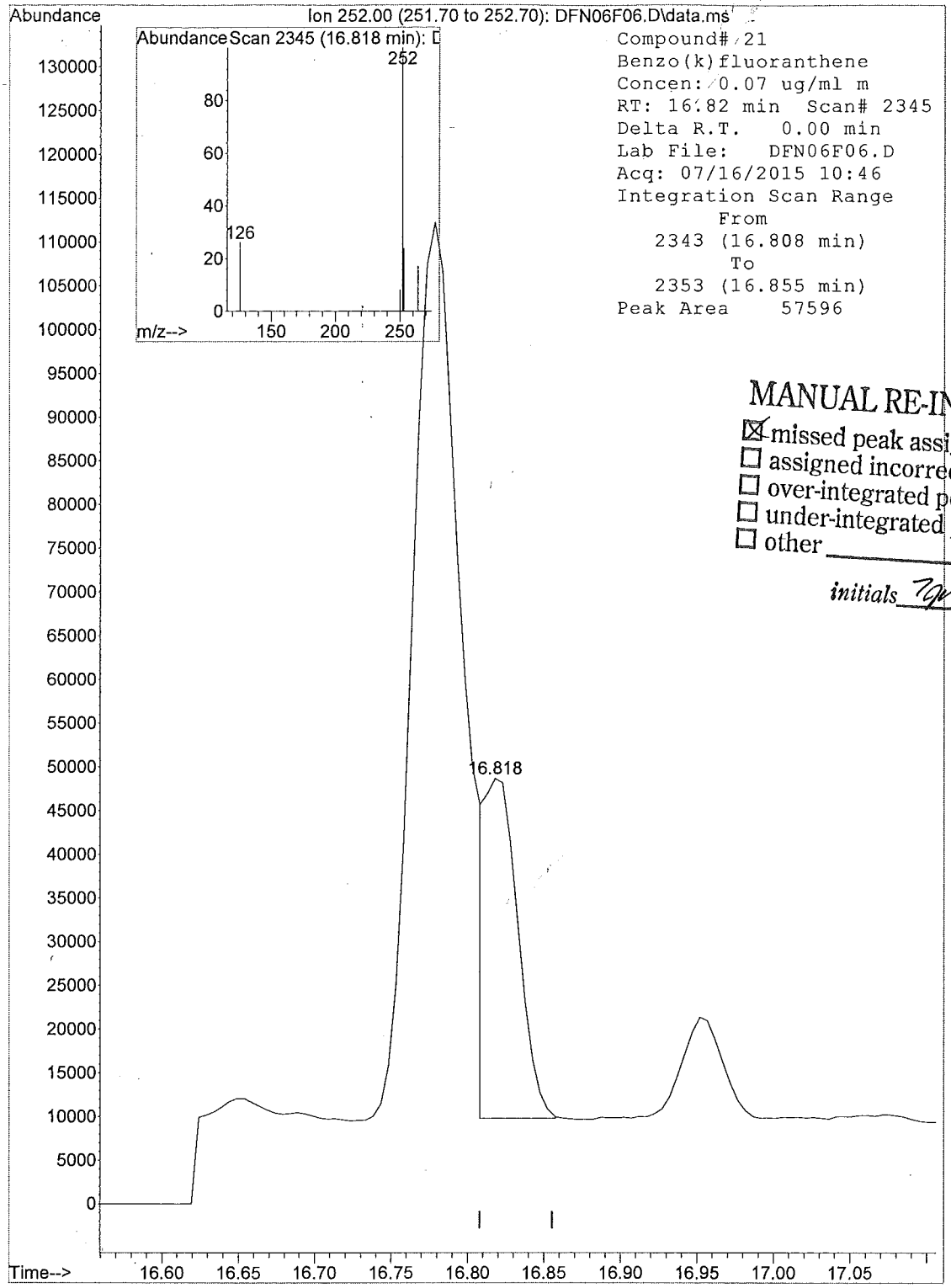


MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☒ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials TG *date* 7.18.15

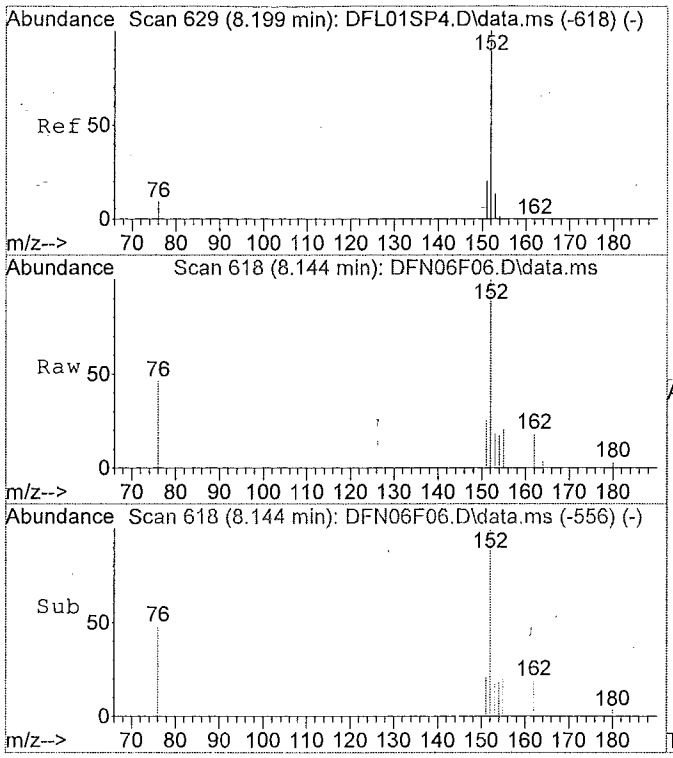
MANUAL INTEGRATION FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- ☒ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

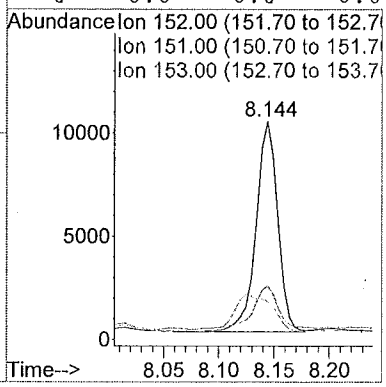
initials TJM date 7.18.15

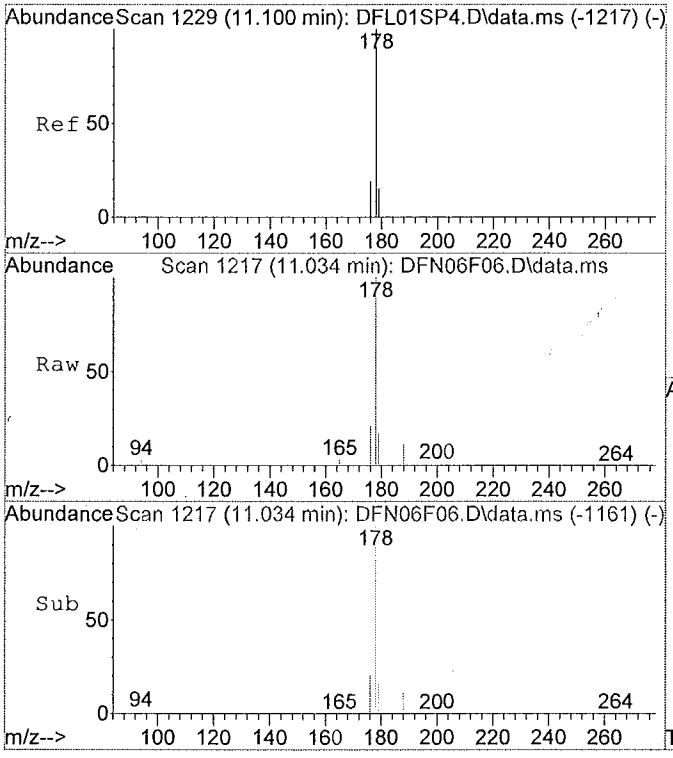


#6
Acenaphthylene
Concen: 0.03 ug/ml
RT: 8.14 min Scan# 618
Delta R.T. 0.01 min
Lab File: DFN06F06.D
Acq: 07/16/2015 10:46

Tgt Ion:152 Resp: 13849

Ion	Ratio	Lower	Upper
152	100		
151	25.6	15.5	28.7
153	30.1	8.8	16.4#
0	0.0	0.0	0.0

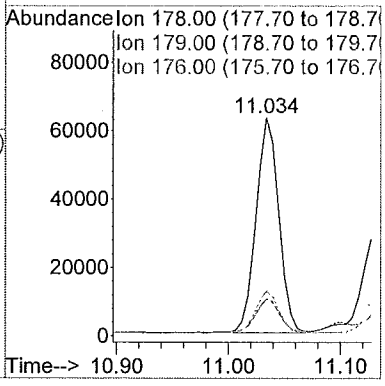


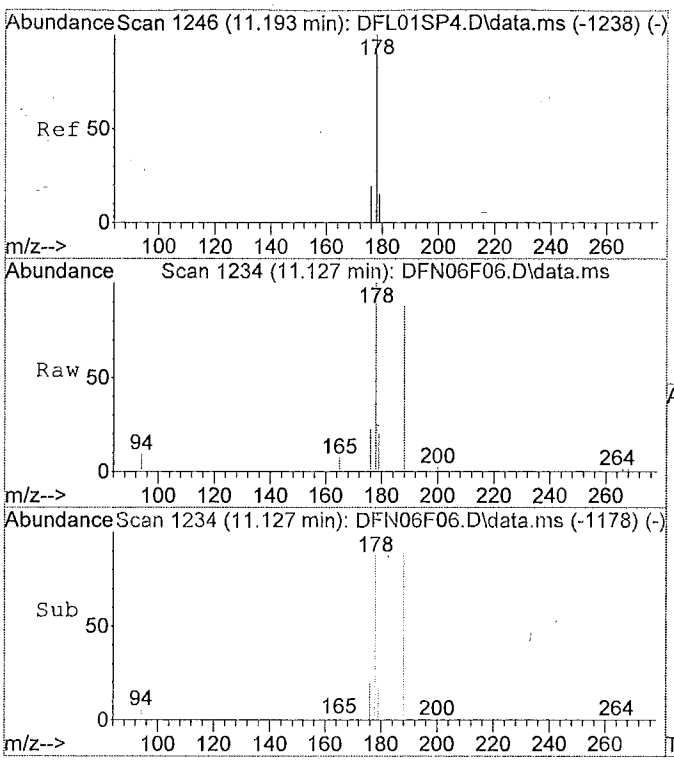


#11
Phenanthrene
Concen: 0.15 ug/ml
RT: 11.03 min Scan# 1217
Delta R.T. 0.01 min
Lab File: DFN06F06.D
Acq: 07/16/2015 10:46

Tgt Ion:178 Resp: 88943

Ion	Ratio	Lower	Upper
178	100		
179	16.5	11.1	20.5
176	20.2	14.1	26.1
0	0.0	0.0	0.0

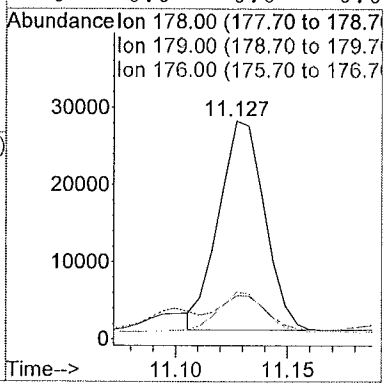


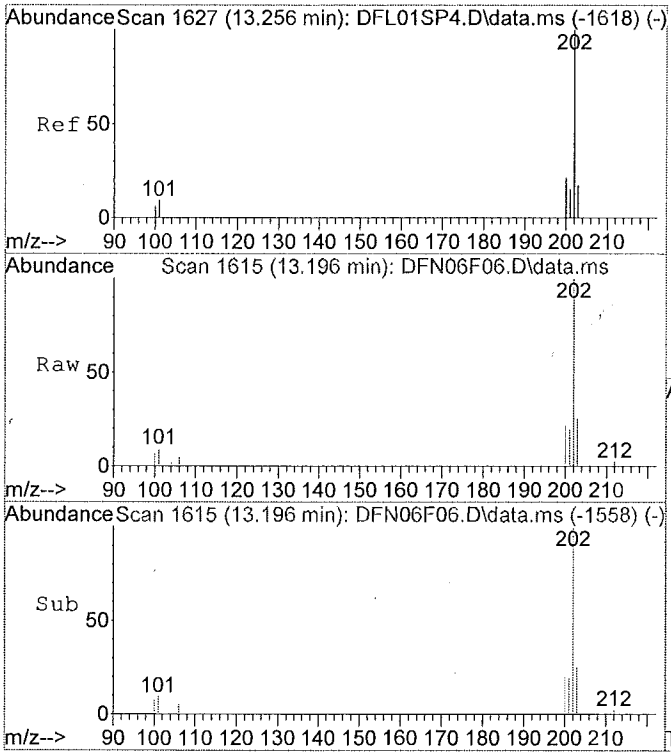


#12
Anthracene
Concen: 0.07 ug/ml m
RT: 11.13 min Scan# 1234
Delta R.T. 0.01 min
Lab File: DFN06F06.D
Acq: 07/16/2015 10:46

Tgt Ion:178 Resp: 38754

Ion	Ratio	Lower	Upper
178	100		
179	16.4	11.6	21.6
176	21.6	13.9	25.7
0	0.0	0.0	0.0

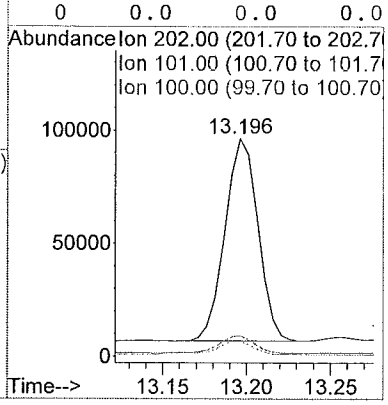


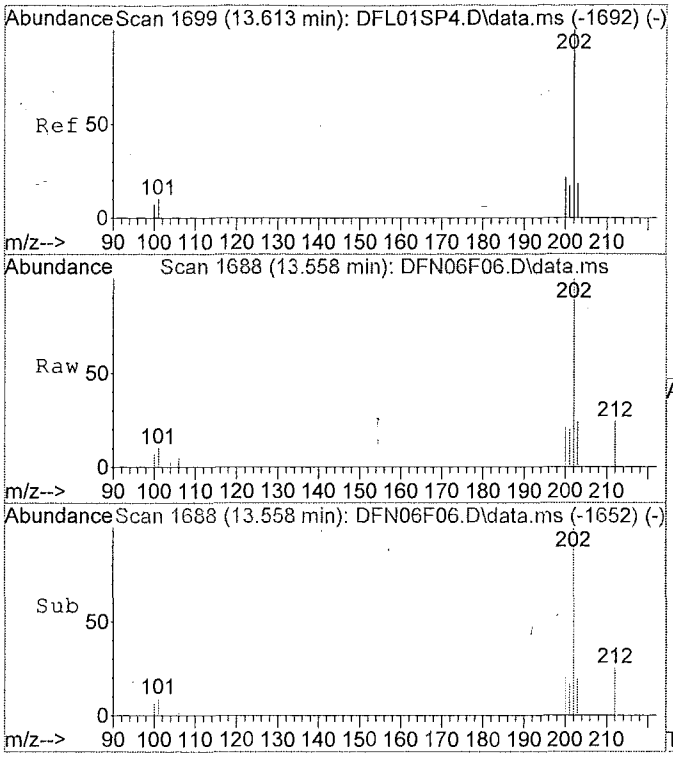


#14
Fluoranthene
Concen: 0.19 ug/ml
RT: 13.20 min Scan# 1615
Delta R.T. 0.01 min
Lab File: DFN06F06.D
Acq: 07/16/2015 10:46

Tgt Ion:202 Resp: 122839

Ion	Ratio	Lower	Upper
202	100		
101	8.9	9.4	17.6#
100	8.0	0.0	0.0#
0	0.0	0.0	0.0

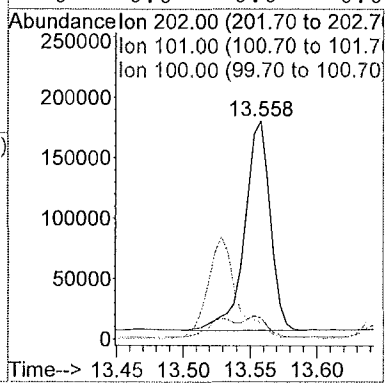


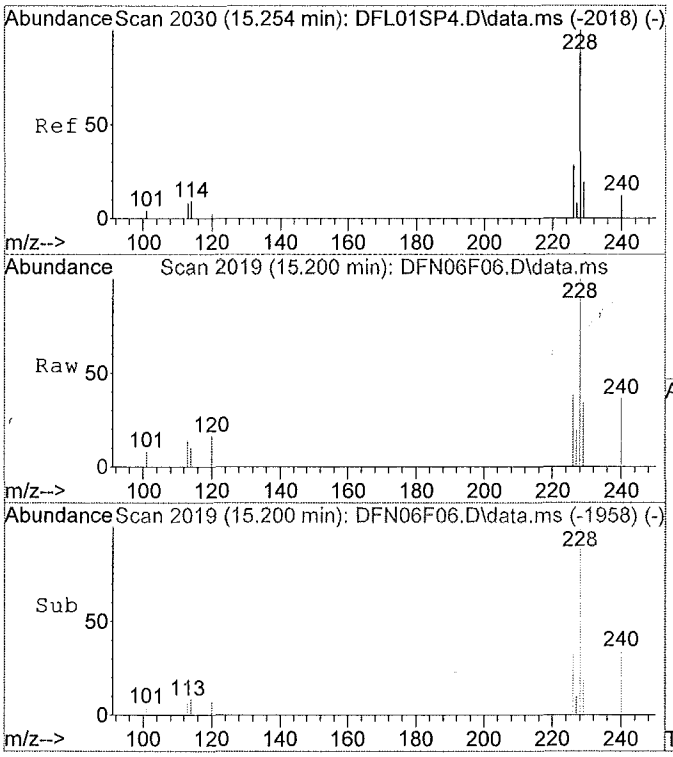


#16
Pyrene
Concen: 0.31 ug/ml
RT: 13.56 min Scan# 1688
Delta R.T. 0.01 min
Lab File: DFN06F06.D
Acq: 07/16/2015 10:46

Tgt Ion:202 Resp: 232003

Ion	Ratio	Lower	Upper
202	100		
101	8.0	10.6	19.6#
100	0.0	9.4	17.4#
0	0.0	0.0	0.0

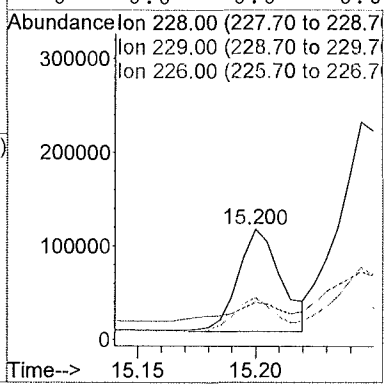


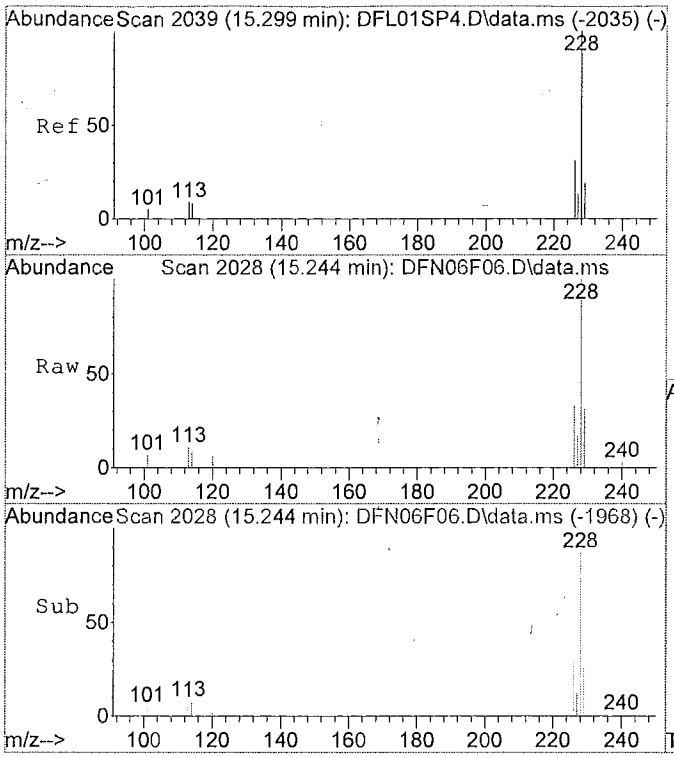


#17
Benzo(a)anthracene
Concen: 0.22 ug/ml
RT: 15.20 min Scan# 2019
Delta R.T. 0.01 min
Lab File: DFN06F06.D
Acq: 07/16/2015 10:46

Tgt Ion:228 Resp: 139955

Ion	Ratio	Lower	Upper
228	100		
229	24.7	14.5	26.9
226	31.0	18.5	34.3
0	0.0	0.0	0.0

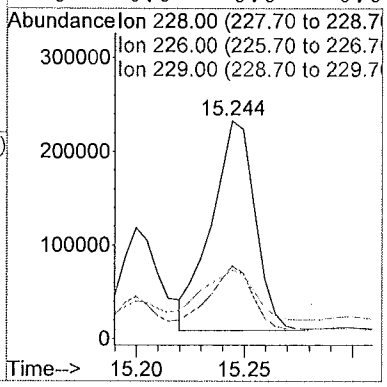


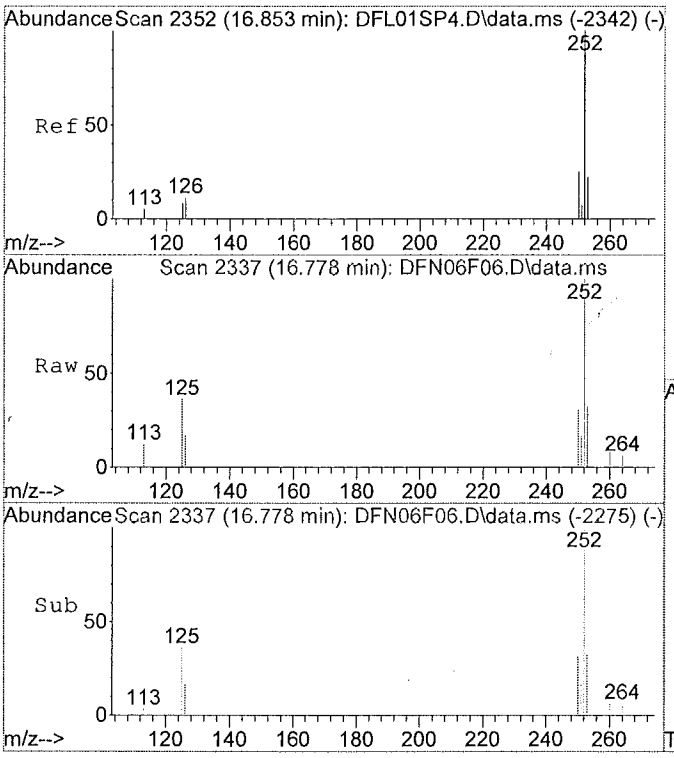


#18
Chrysene
Concen: 0.47 ug/ml
RT: 15.24 min Scan# 2028
Delta R.T. 0.00 min
Lab File: DFN06F06.D
Acq: 07/16/2015 10:46

Tgt Ion:228 Resp: 314624

Ion	Ratio	Lower	Upper
228	100		
226	29.9	19.7	36.7
229	29.5	14.5	26.9#
0	0.0	0.0	0.0

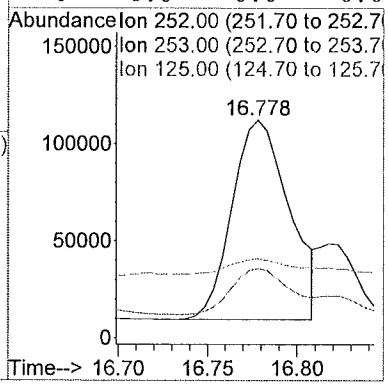


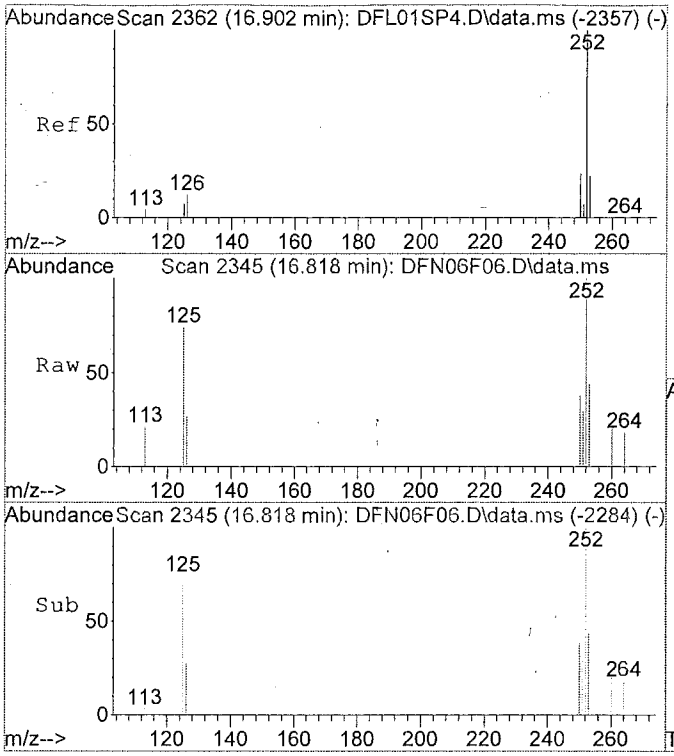


#20
Benzo(b)fluoranthene
Concen: 0.27 ug/ml
RT: 16.78 min Scan# 2337
Delta R.T. 0.01 min
Lab File: DFN06F06.D
Acq: 07/16/2015 10:46

Tgt Ion:252 Resp: 227452

Ion	Ratio	Lower	Upper
252	100		
253	22.6	15.3	28.3
125	0.0	0.0	0.0
0	0.0	0.0	0.0

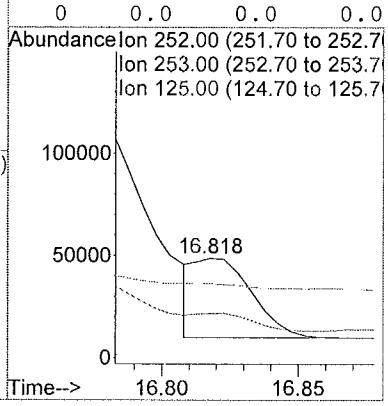


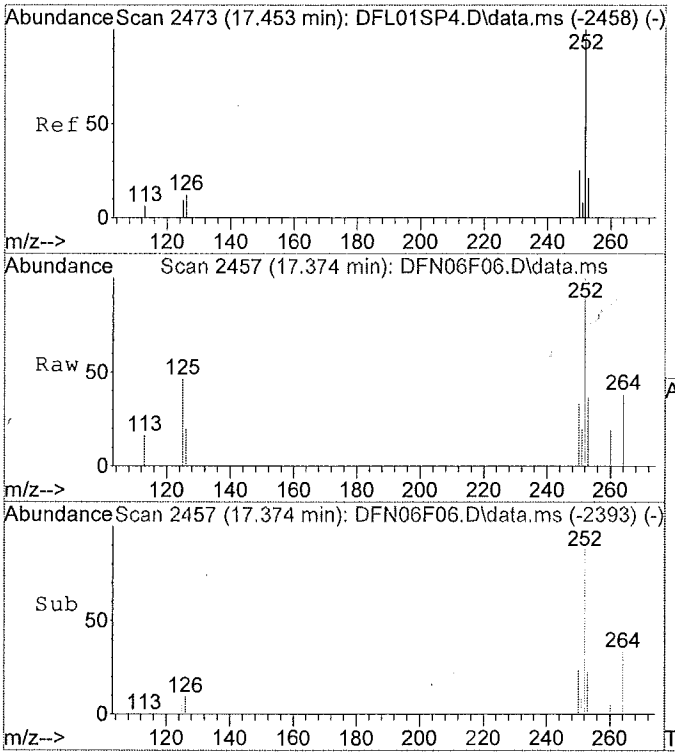


#21
Benzo(k)fluoranthene
Concen: 0.07 ug/ml m
RT: 16.82 min Scan# 2345
Delta R.T. 0.00 min
Lab File: DFN06F06.D
Acq: 07/16/2015 10:46

Tgt Ion:252 Resp: 57596

Ion	Ratio	Lower	Upper
252	100		
253	89.2	15.0	27.8#
125	0.0	0.0	0.0
0	0.0	0.0	0.0

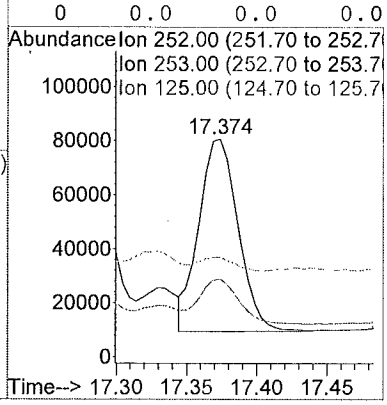


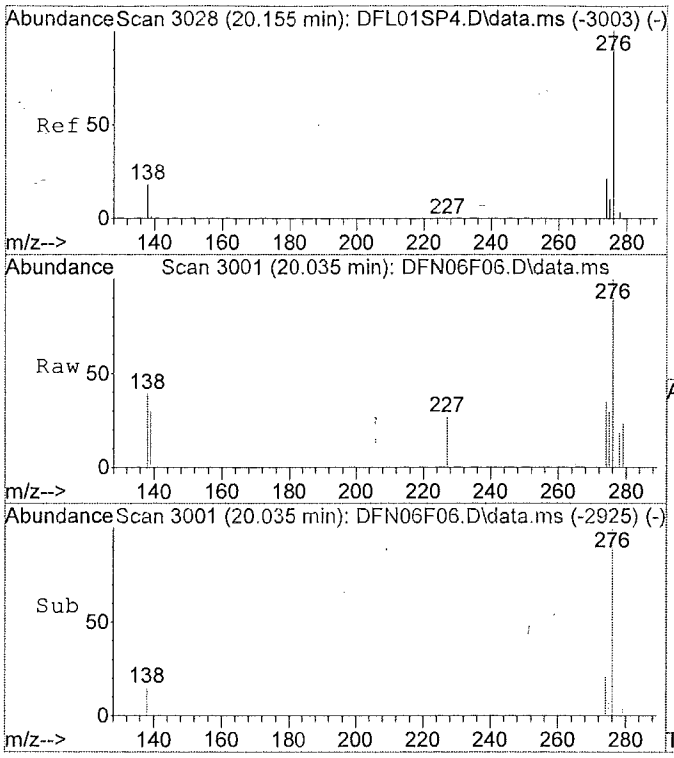


#22
Benzo(a)pyrene
Concen: 0.17 ug/ml
RT: 17.37 min Scan# 2457
Delta R.T. 0.02 min
Lab File: DFN06F06.D
Acq: 07/16/2015 10:46

Tgt Ion:252 Resp: 138969

Ion	Ratio	Lower	Upper
252	100		
253	23.8	15.0	27.8
125	6.8	0.0	0.0#
0	0.0	0.0	0.0

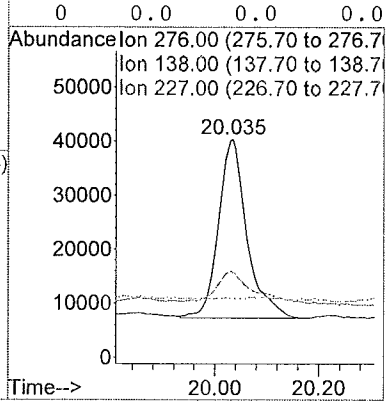


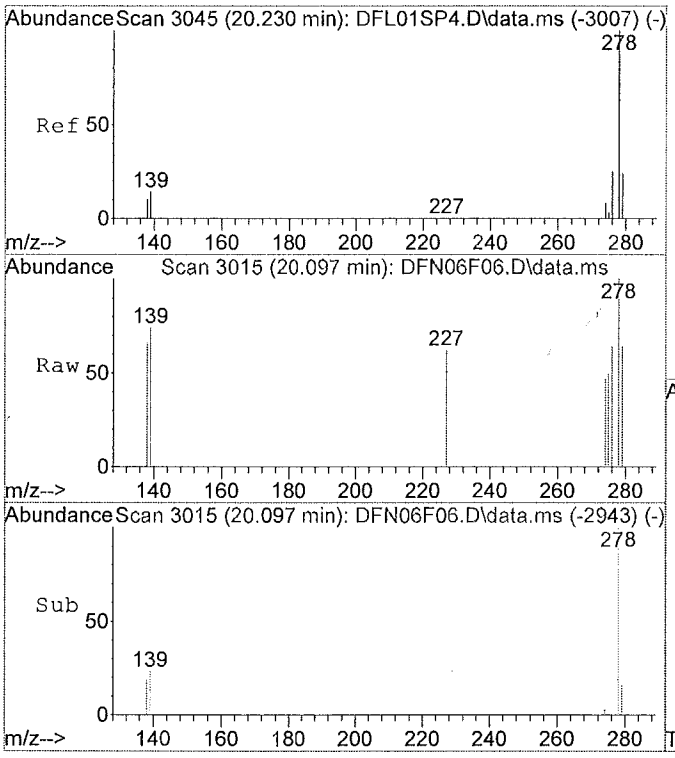


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.18 ug/ml
RT: 20.03 min Scan# 3001
Delta R.T. 0.04 min
Lab File: DFN06F06.D
Acq: 07/16/2015 10:46

Tgt Ion:276 Resp: 125073

Ion	Ratio	Lower	Upper
276	100		
138	22.7	0.0	0.0#
227	0.1	0.0	0.0#
0	0.0	0.0	0.0

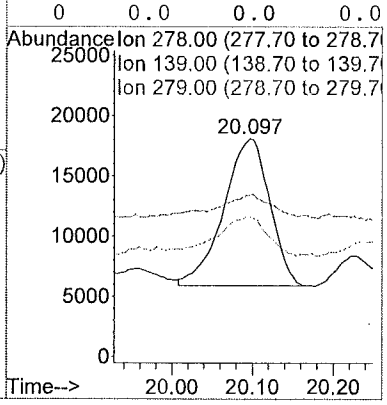


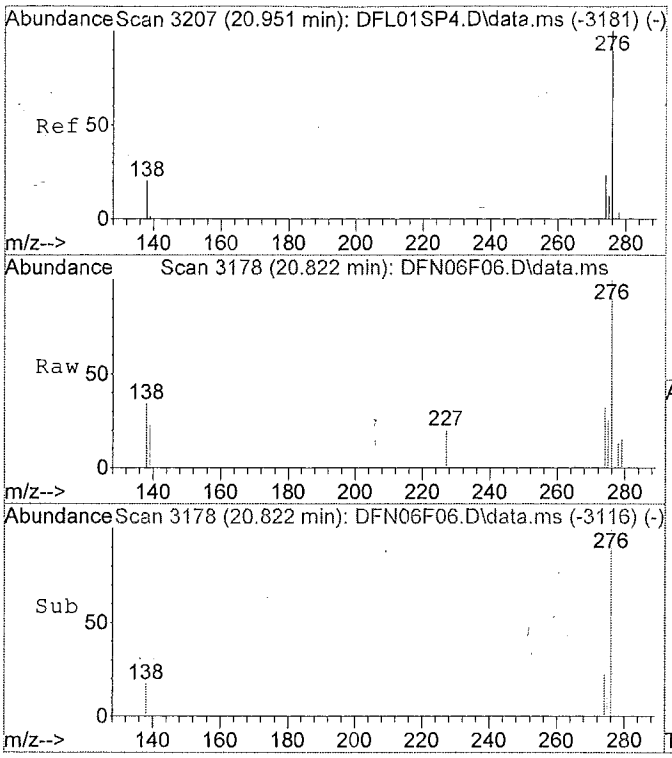


#24
Dibenzo(a,h)anthracene
Concen: 0.06 ug/ml
RT: 20.10 min Scan# 3015
Delta R.T. 0.02 min
Lab File: DFN06F06.D
Acq: 07/16/2015 10:46

Tgt Ion:278 Resp: 48289

Ion	Ratio	Lower	Upper
278	100		
139	13.4	0.0	0.0#
279	27.7	15.8	29.3
0	0.0	0.0	0.0





#25
Benzo(g,h,i)perylene
Concen: 0.21 ug/ml
RT: 20.82 min Scan# 3178
Delta R.T. 0.04 min
Lab File: DFN06F06.D
Acq: 07/16/2015 10:46

Tgt Ion:276 Resp: 162710

Ion	Ratio	Lower	Upper
276	100		
138	18.9	16.2	30.0
277	0.0	16.5	30.7#
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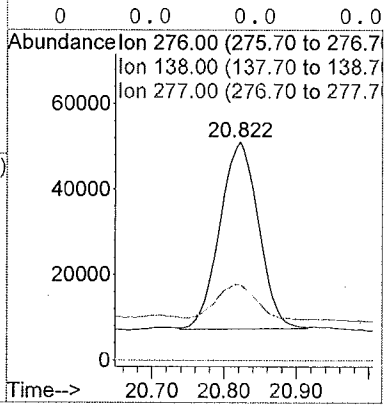


1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M27

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFN12F07

Extraction: (Type) SONC

% Moisture: 19. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/16/2015

GPC Cleanup: (Y/N) Y pH: 8.0 Dilution Factor: 1.0

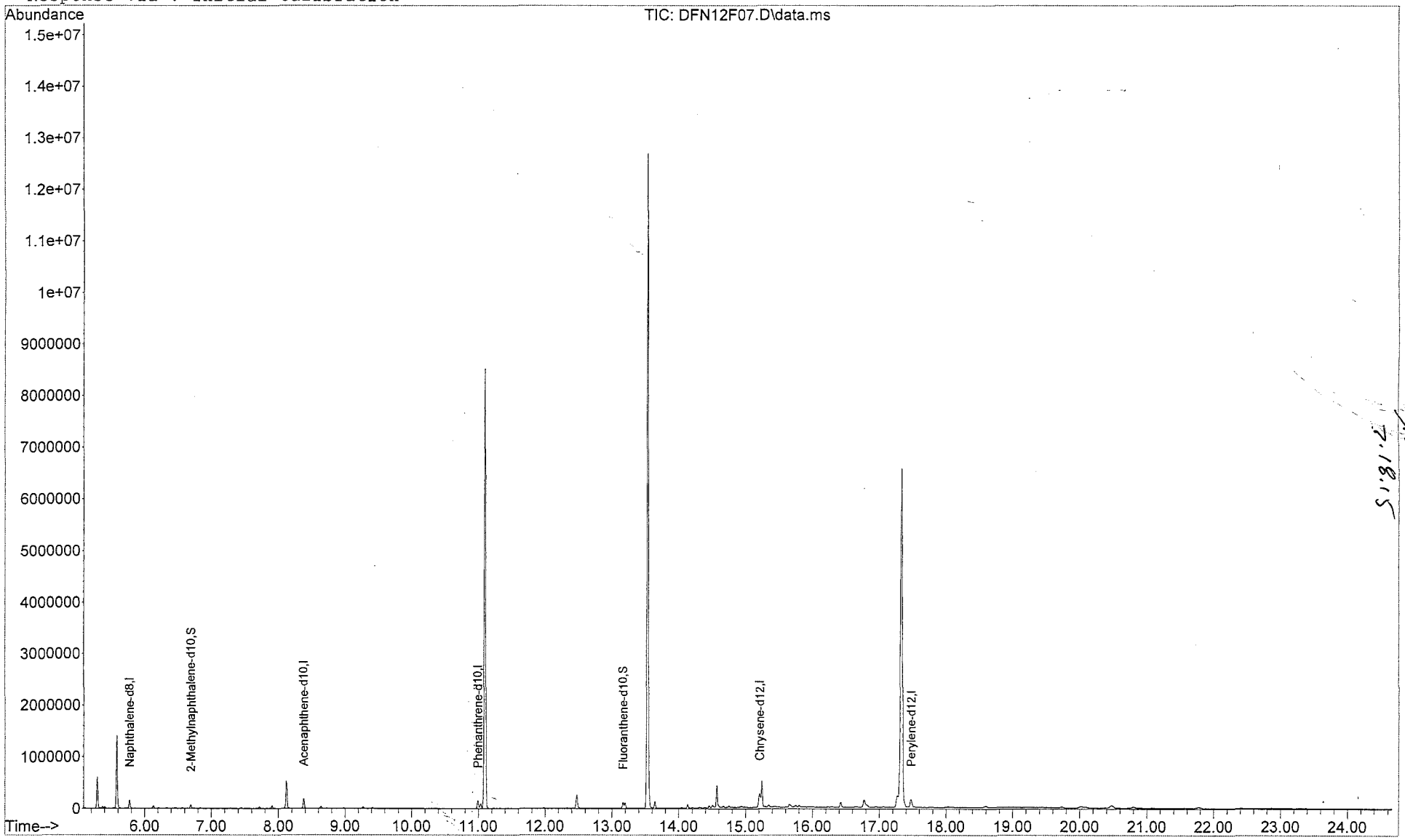
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	4.0	U
91-57-6	2-Methylnaphthalene	4.0	U
208-96-8	Acenaphthylene	4.0	U
83-32-9	Acenaphthene	4.0	U
86-73-7	Fluorene	4.0	U
87-86-5	Pentachlorophenol	8.2	U
85-01-8	Phenanthrene	6.8	
120-12-7	Anthracene	1.6	J
206-44-0	Fluoranthene	5.3	
129-00-0	Pyrene	12.	
56-55-3	Benzo(a)anthracene	7.3	
218-01-9	Chrysene	25.	
205-99-2	Benzo(b)fluoranthene	9.5	
207-08-9	Benzo(k)fluoranthene	1.5	J
50-32-8	Benzo(a)pyrene	5.2	
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	
53-70-3	Dibenzo(a,h)anthracene	2.3	J
191-24-2	Benzo(g,h,i)perylene	2.8	J

Quantitation Report

Data File : R:\D\2015\JUL15\16JUL15DPM\DFN12F07.D Vial: 6
Acq On : 07/16/2015 13:48 Operator: DJC
Sample : 1515542007 F9M27 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jul 18 12:27:51 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\JUL15\16JUL15DPM\DFN12F07.D Vial: 6
Acq On : 07/16/2015 13:48 Operator: DJC
Sample : 1515542007 F9M27 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 18 12:27:51 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

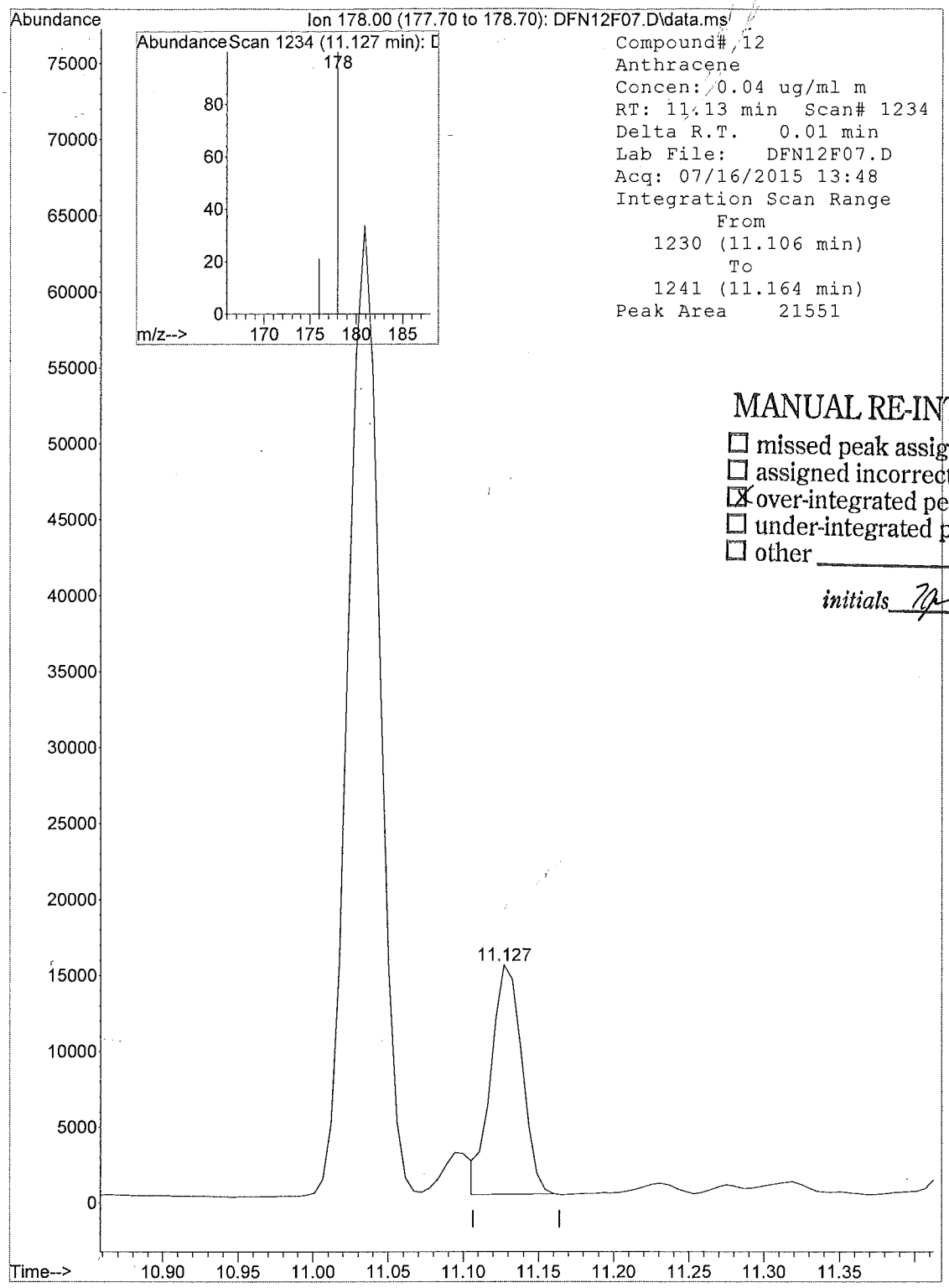
Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.78	136	174650	0.40 ug/ml	
5) Acenaphthene-d10	8.38	164	121536	0.40 ug/ml	
9) Phenanthrene-d10	11.00	188	197128	0.40 ug/ml	
15) Chrysene-d12	15.21	240	220702	0.40 ug/ml	
19) Perylene-d12	17.47	264	239667	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.69	152	71240	0.253ug/mL	
13) Fluoranthene-d10	13.17	212	137064	0.254ug/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	11.03	178	94194	0.166ug/ml	99
12) Anthracene	11.13	178	21551	0.039ug/ml m	94
14) Fluoranthene	13.20	202	84106	0.130ug/ml	92
16) Pyrene	13.56	202	195972	0.283ug/ml	9
17) Benzo(a)anthracene	15.20	228	104533	0.178ug/ml	85
18) Chrysene	15.24	228	382072	0.614ug/ml	94
20) Benzo(b)fluoranthene	16.77	252	173376	0.232ug/ml	98
21) Benzo(k)fluoranthene	16.81	252	29201	0.038ug/ml m	97
22) Benzo(a)pyrene	17.37	252	91457	0.128ug/ml	92
23) Indeno(1,2,3-c,d)pyrene	20.02	276	75652	0.121ug/ml	100
24) Dibenzo(a,h)anthracene	20.08	278	39157	0.057ug/ml	95
25) Benzo(g,h,i)perylene	20.80	276	48290	0.069ug/ml	75

7.18.15

7.18.15

(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

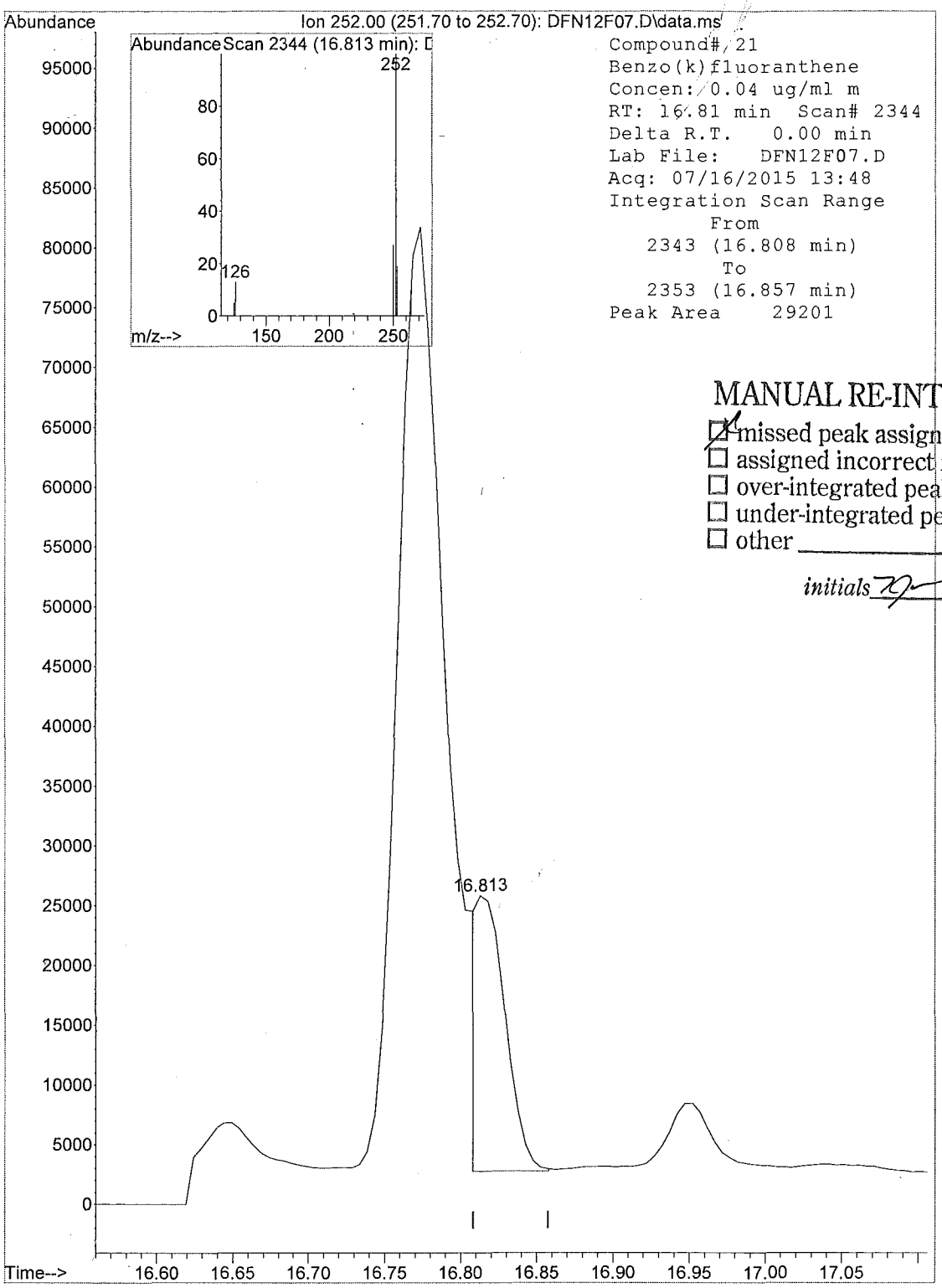


MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☒ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials ZP *date* 7.18.15

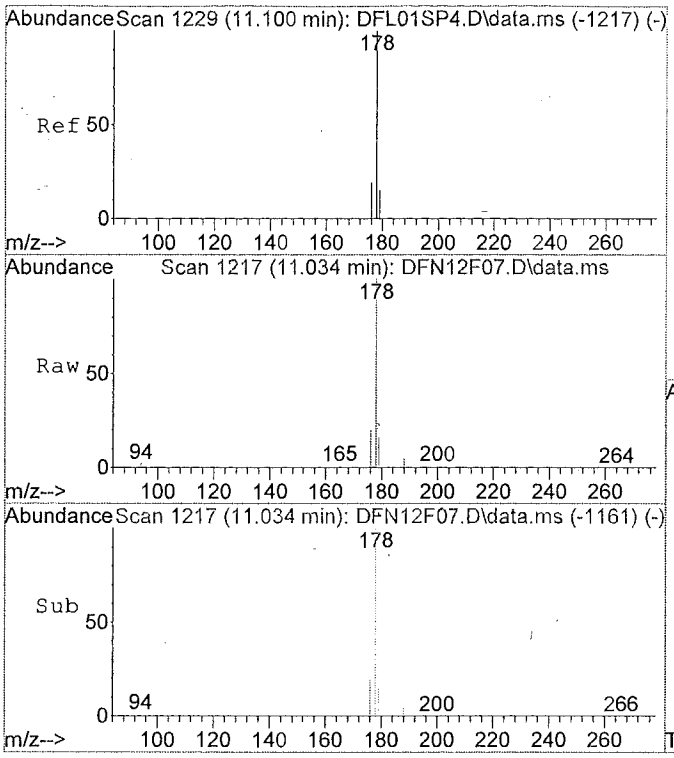
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- ☒ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

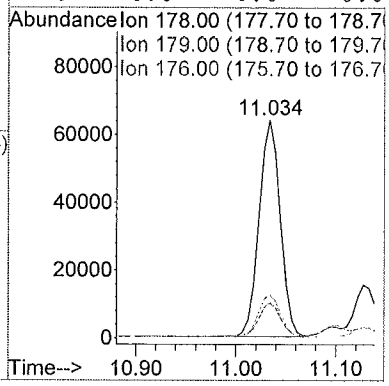
initials ZJ *date* 7.18.15

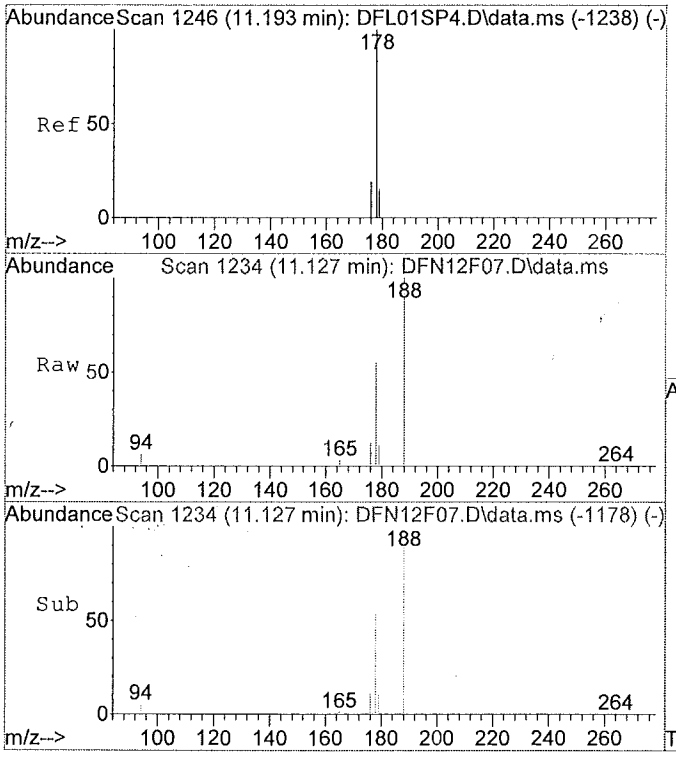


#11
Phenanthrene
Concen: 0.17 ug/ml
RT: 11.03 min Scan# 1217
Delta R.T. 0.01 min
Lab File: DFN12F07.D
Acq: 07/16/2015 13:48

Tgt Ion:178 Resp: 94194

Ion	Ratio	Lower	Upper
178	100		
179	15.8	11.1	20.5
176	20.5	14.1	26.1
0	0.0	0.0	0.0

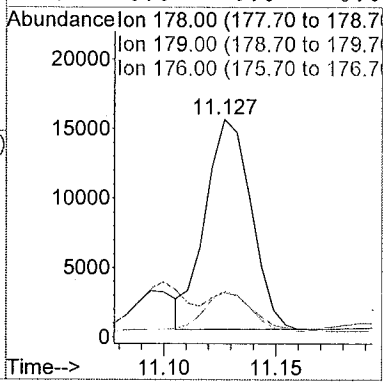


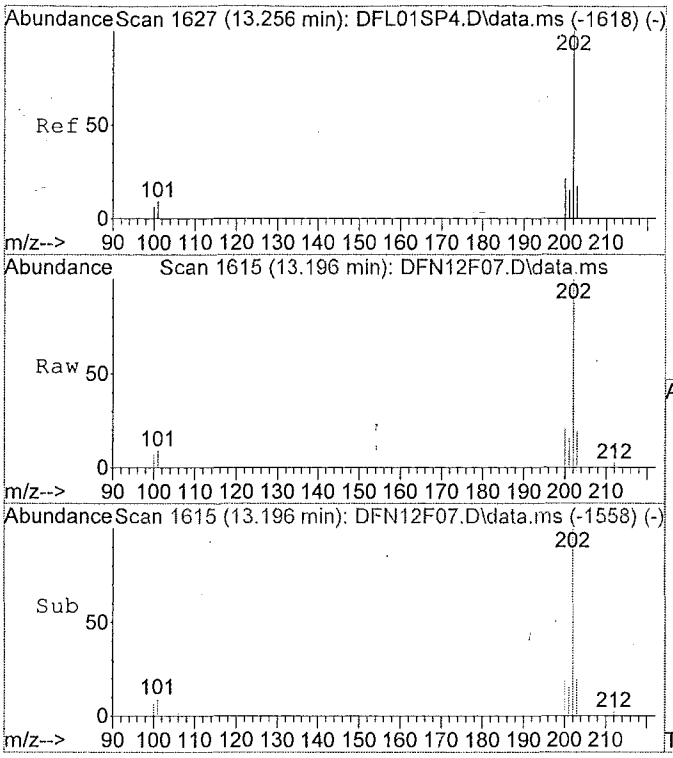


#12
Anthracene
Concen: 0.04 ug/ml m
RT: 11.13 min Scan# 1234
Delta R.T. 0.01 min
Lab File: DFN12F07.D
Acq: 07/16/2015 13:48

Tgt Ion:178 Resp: 21551

Ion	Ratio	Lower	Upper
178	100		
179	15.2	11.6	21.6
176	21.6	13.9	25.7
0	0.0	0.0	0.0

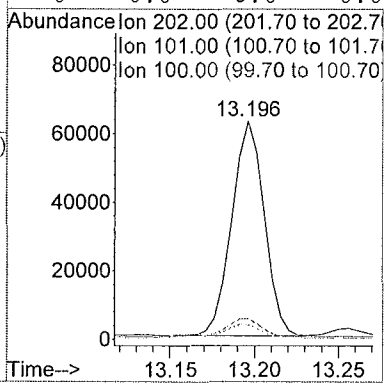


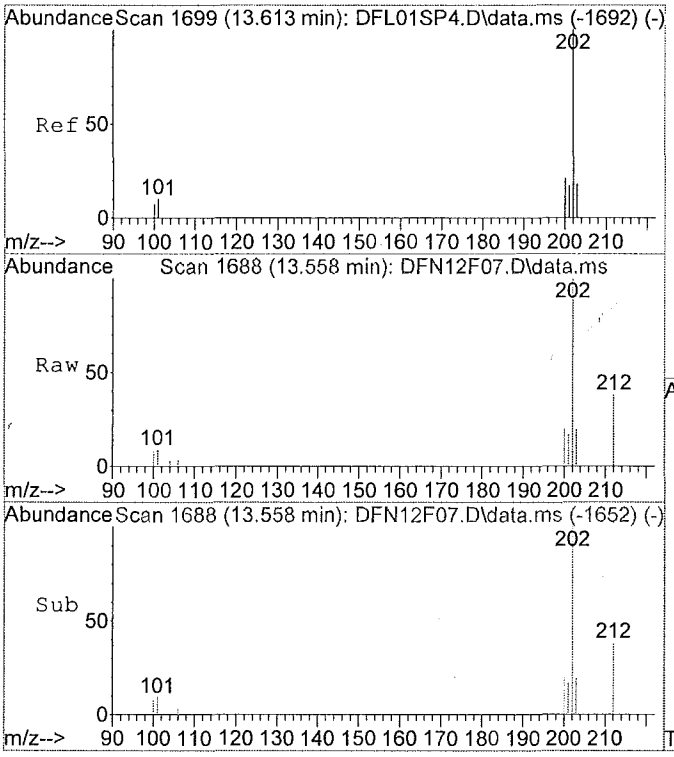


#14
Fluoranthene
Concen: 0.13 ug/ml
RT: 13.20 min Scan# 1615
Delta R.T. 0.01 min
Lab File: DFN12F07.D
Acq: 07/16/2015 13:48

Tgt Ion:202 Resp: 84106

Ion	Ratio	Lower	Upper
202	100		
101	10.4	9.4	17.6
100	6.5	0.0	0.0#
0	0.0	0.0	0.0

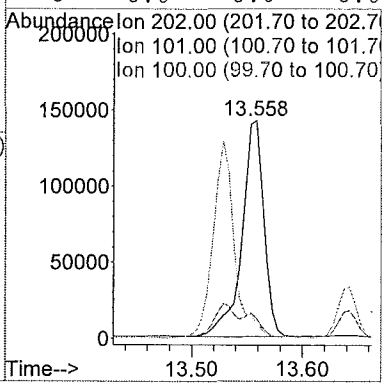


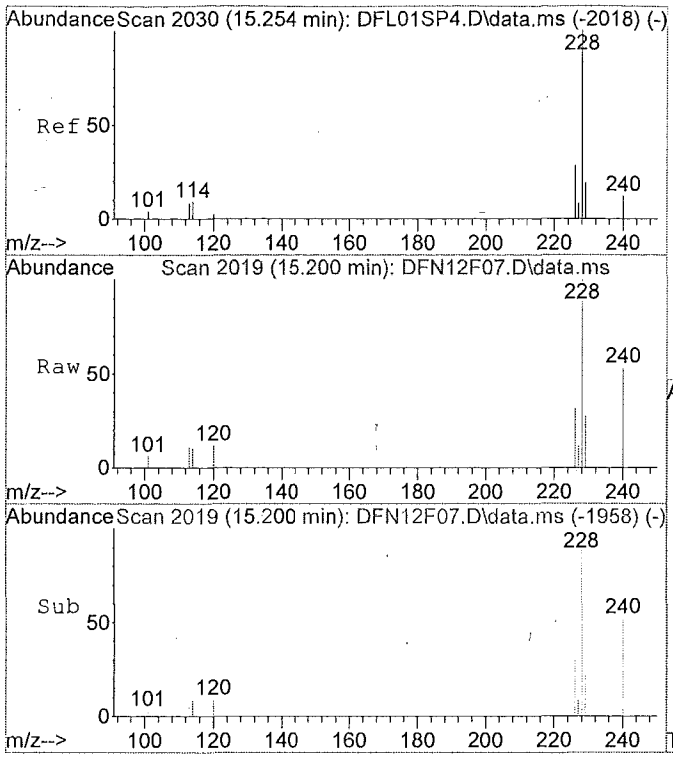


#16
Pyrene
Concen: 0.28 ug/ml
RT: 13.56 min Scan# 1688
Delta R.T. 0.01 min
Lab File: DFN12F07.D
Acq: 07/16/2015 13:48

Tgt Ion:202 Resp: 195972

Ion	Ratio	Lower	Upper
202	100		
101	15.9	10.6	19.6
100	90.4	9.4	17.4#
0	0.0	0.0	0.0

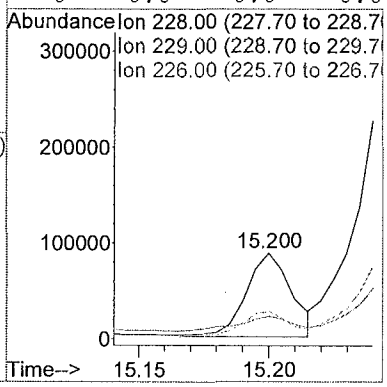


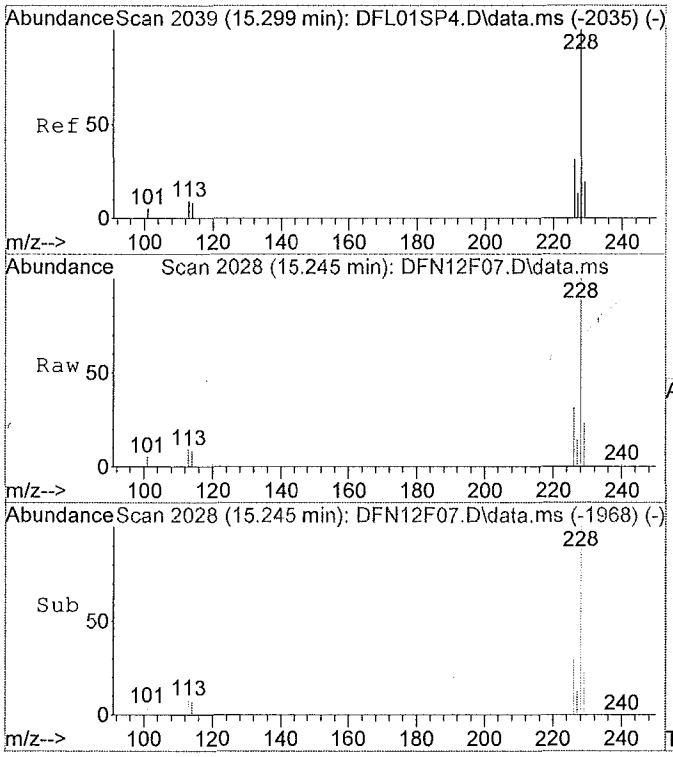


#17
Benzo(a)anthracene
Concen: 0.18 ug/ml
RT: 15.20 min Scan# 2019
Delta R.T. 0.01 min
Lab File: DFN12F07.D
Acq: 07/16/2015 13:48

Tgt Ion:228 Resp: 104533

Ion	Ratio	Lower	Upper
228	100		
229	31.3	14.5	26.9#
226	30.8	18.5	34.3
0	0.0	0.0	0.0

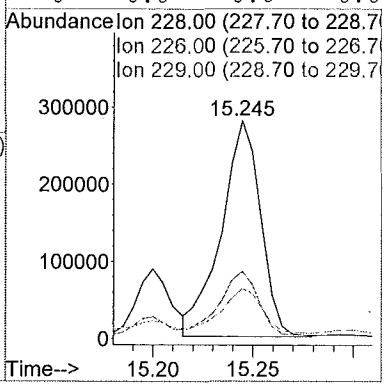


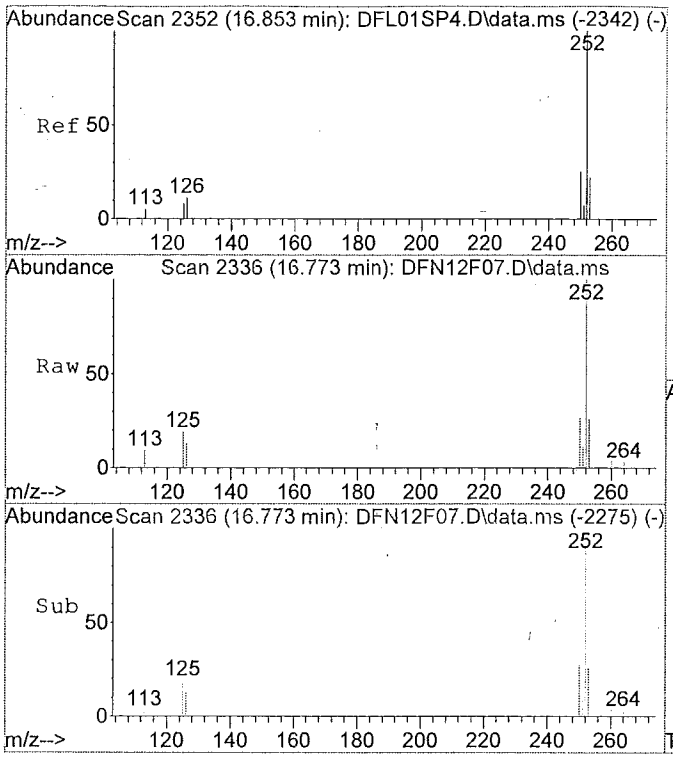


#18
Chrysene
Concen: 0.61 ug/ml
RT: 15.24 min Scan# 2028
Delta R.T. 0.00 min
Lab File: DFN12F07.D
Acq: 07/16/2015 13:48

Tgt Ion:228 Resp: 382072

Ion	Ratio	Lower	Upper
228	100		
226	31.3	19.7	36.7
229	23.4	14.5	26.9
0	0.0	0.0	0.0

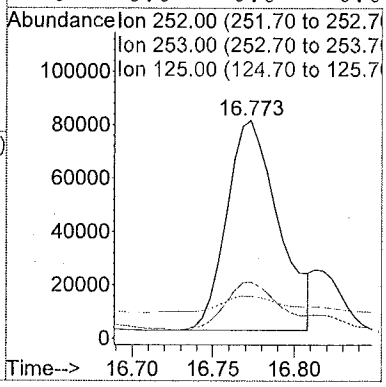


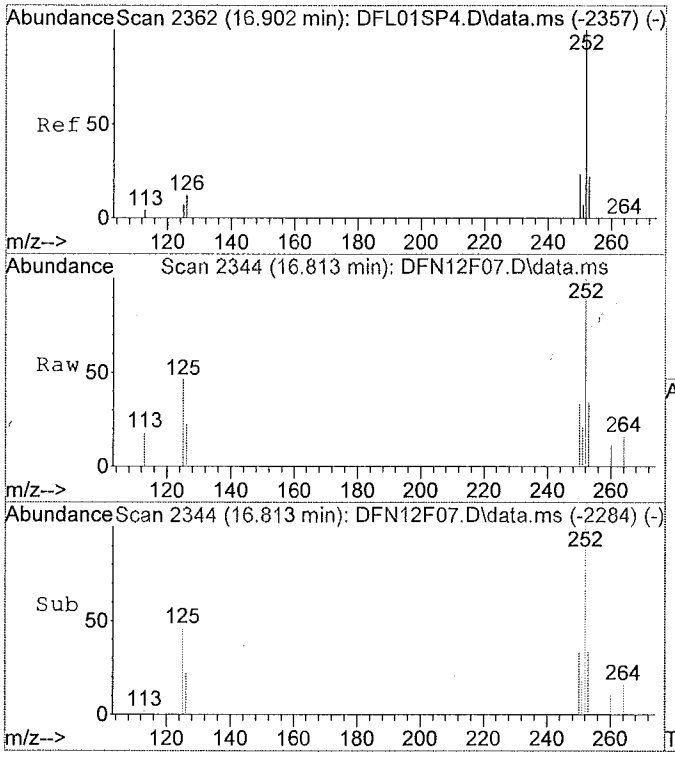


#20
Benzo(b)fluoranthene
Concen: 0.23 ug/ml
RT: 16.77 min Scan# 2336
Delta R.T. 0.01 min
Lab File: DFN12F07.D
Acq: 07/16/2015 13:48

Tgt Ion:252 Resp: 173376

Ion	Ratio	Lower	Upper
252	100		
253	22.8	15.3	28.3
125	9.4	0.0	0.0#
0	0.0	0.0	0.0

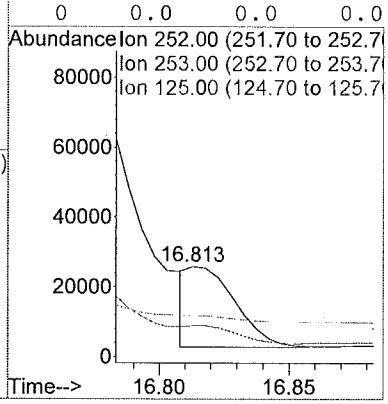


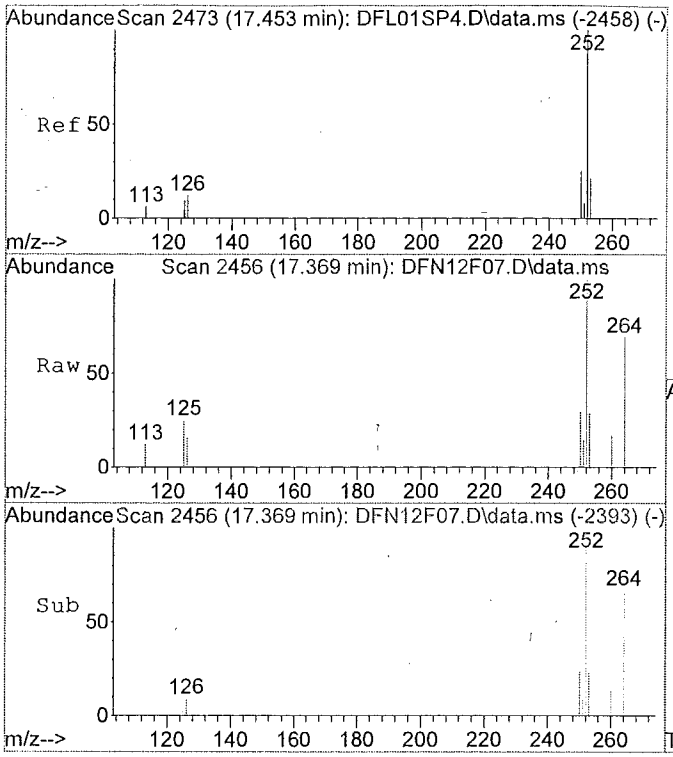


#21
Benzo(k)fluoranthene
Concen: 0.04 ug/ml m
RT: 16.81 min Scan# 2344
Delta R.T. 0.00 min
Lab File: DFN12F07.D
Acq: 07/16/2015 13:48

Tgt Ion:252 Resp: 29201

Ion	Ratio	Lower	Upper
252	100		
253	135.3	15.0	27.8#
125	55.6	0.0	0.0#
0	0.0	0.0	0.0

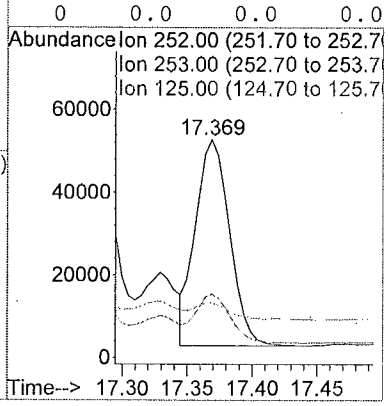


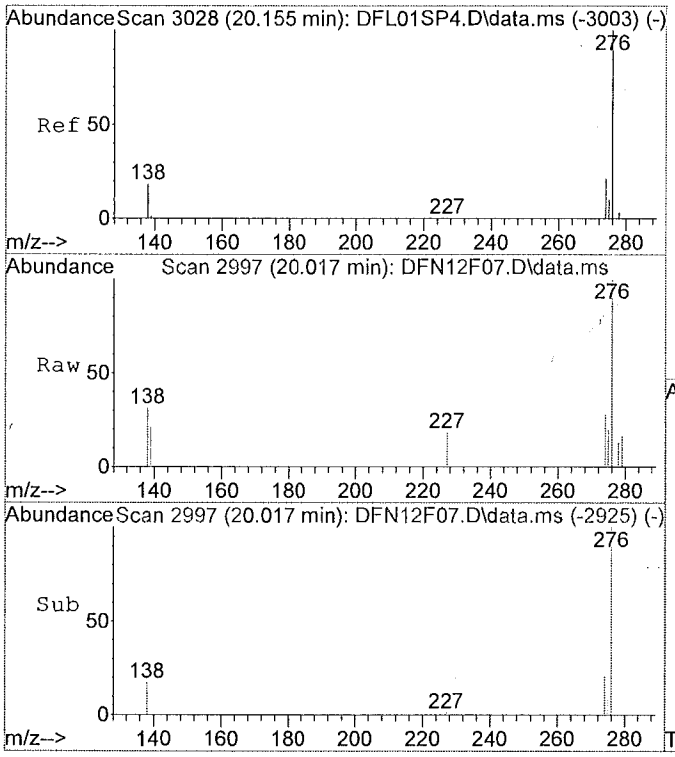


#22
Benzo(a)pyrene
Concen: 0.13 ug/ml
RT: 17.37 min Scan# 2456
Delta R.T. 0.02 min
Lab File: DFN12F07.D
Acq: 07/16/2015 13:48

Tgt Ion:252 Resp: 91457

Ion	Ratio	Lower	Upper
252	100		
253	25.1	15.0	27.8
125	8.0	0.0	0.0#
0	0.0	0.0	0.0

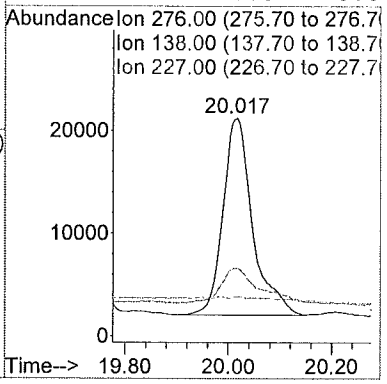


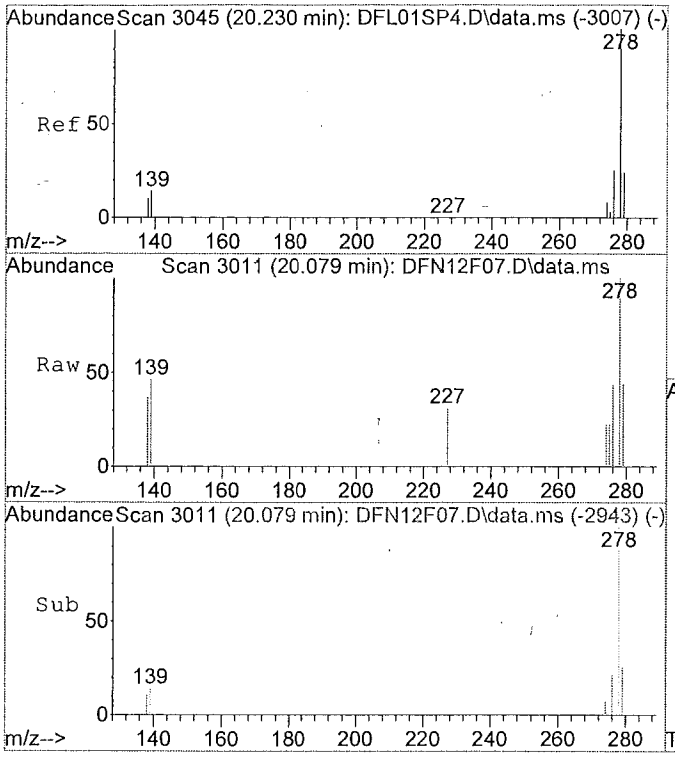


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.12 ug/ml
RT: 20.02 min Scan# 2997
Delta R.T. 0.02 min
Lab File: DFN12F07.D
Acq: 07/16/2015 13:48

Tgt Ion:276 Resp: 75652

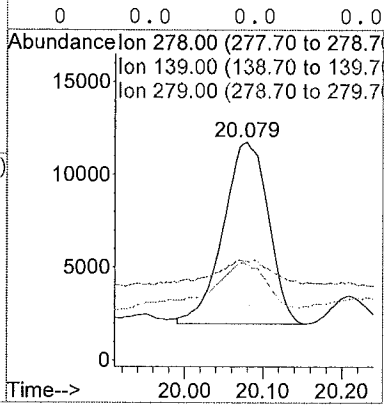
Ion	Ratio	Lower	Upper
276	100		
138	19.4	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

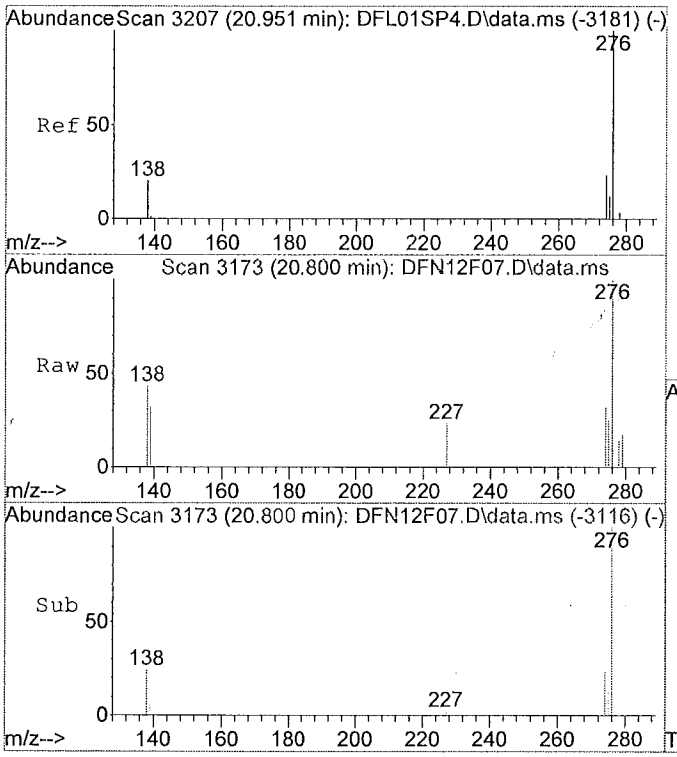




#24
Dibenzo(a,h)anthracene
Concen: 0.06 ug/ml
RT: 20.08 min Scan# 3011
Delta R.T. 0.00 min
Lab File: DFN12F07.D
Acq: 07/16/2015 13:48

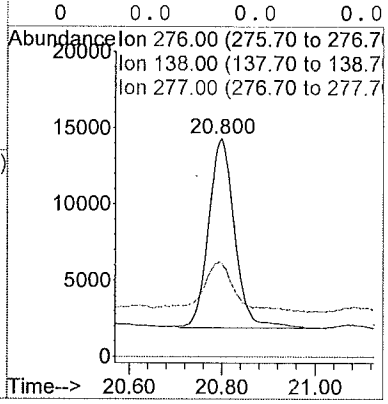
Tgt Ion:278	Resp:	39157	
Ion	Ratio	Lower	Upper
278	100		
139	6.8	0.0	0.0#
279	24.7	15.8	29.3
0	0.0	0.0	0.0





#25
Benzo(g,h,i)perylene
Concen: 0.07 ug/ml
RT: 20.80 min Scan# 3173
Delta R.T. 0.02 min
Lab File: DFN12F07.D
Acq: 07/16/2015 13:48

Tgt Ion:276	Resp:	48290	
Ion	Ratio	Lower	Upper
276	100		
138	23.6	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.

F9M28

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DFN13F10

Extraction: (Type) SONC

% Moisture: 17. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/16/2015

GPC Cleanup: (Y/N) Y pH: 8.1 Dilution Factor: 1.0

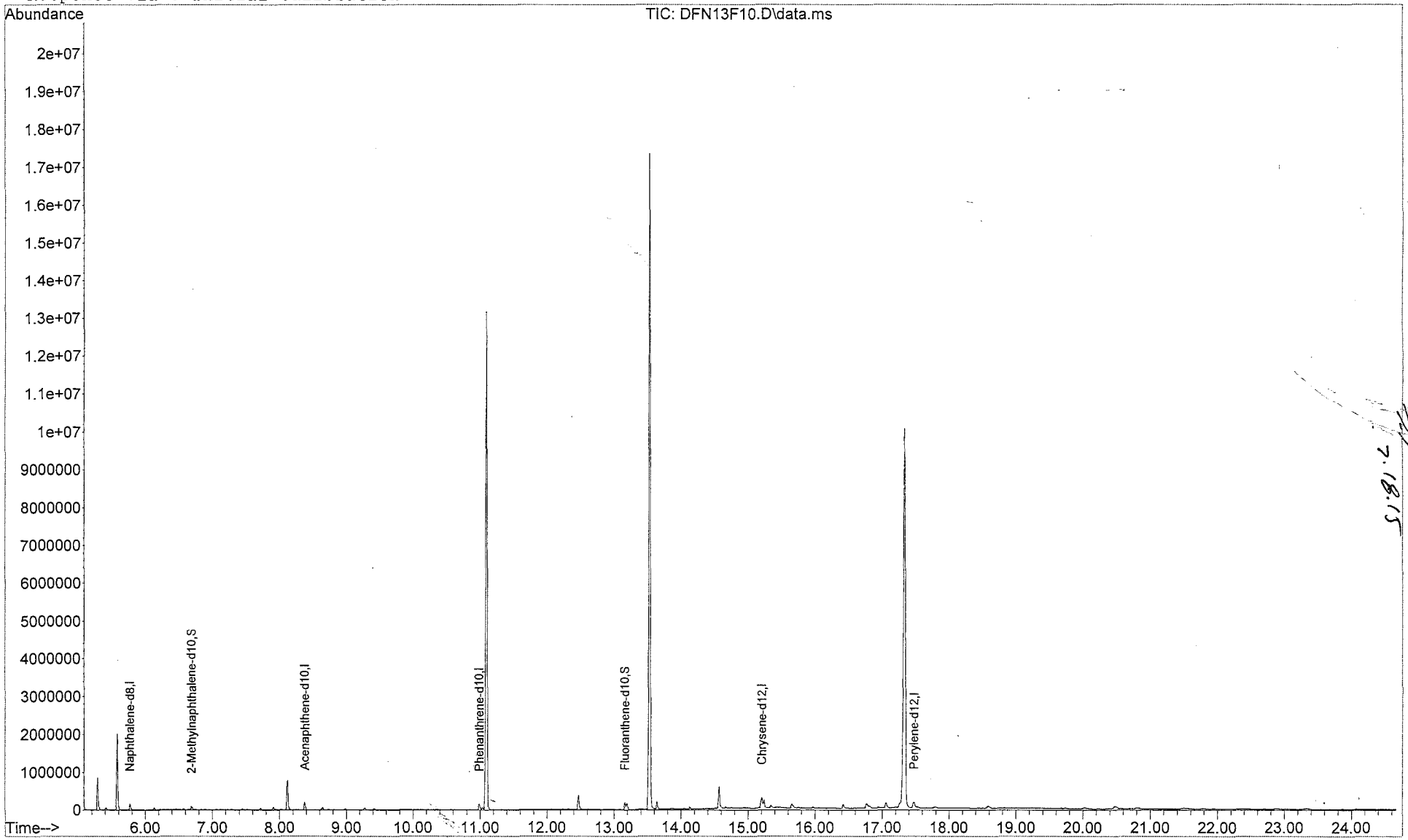
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	0.86	J
91-57-6	2-Methylnaphthalene	1.1	J
208-96-8	Acenaphthylene	4.0	U
83-32-9	Acenaphthene	4.0	U
86-73-7	Fluorene	4.0	U
87-86-5	Pentachlorophenol	8.1	U
85-01-8	Phenanthrene	3.8	J
120-12-7	Anthracene	2.0	J
206-44-0	Fluoranthene	7.0	
129-00-0	Pyrene	9.3	
56-55-3	Benzo(a)anthracene	6.5	
218-01-9	Chrysene	9.5	
205-99-2	Benzo(b)fluoranthene	7.6	
207-08-9	Benzo(k)fluoranthene	1.8	J
50-32-8	Benzo(a)pyrene	4.2	
193-39-5	Indeno(1,2,3-cd)pyrene	4.9	
53-70-3	Dibenzo(a,h)anthracene	1.4	J
191-24-2	Benzo(g,h,i)perylene	2.5	J

Quantitation Report

Data File : R:\D\2015\JUL15\16JUL15DPM\DFN13F10.D Vial: 7
Acq On : 07/16/2015 14:18 Operator: DJC
Sample : 1515542010 F9M28 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jul 18 12:28:50 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



Quantitation Report

Data File : R:\D\2015\JUL15\16JUL15DPM\DFN13F10.D Vial: 7
Acq On : 07/16/2015 14:18 Operator: DJC
Sample : 1515542010 F9M28 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 18 12:28:50 2015 Results File: DSOM_SIMJ2.RES

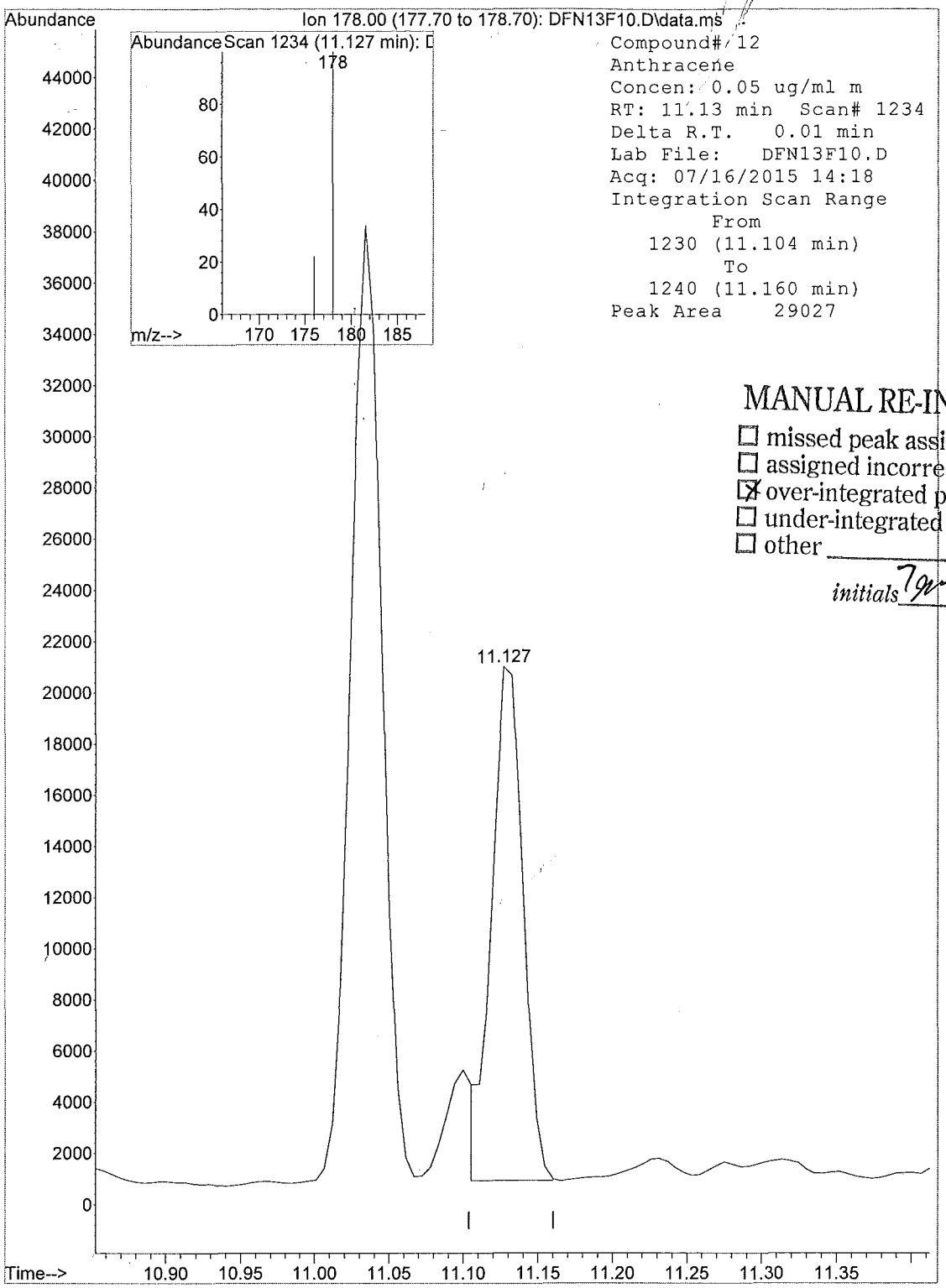
Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.77	136	177196	0.40 ug/ml	
5) Acenaphthene-d10	8.38	164	128050	0.40 ug/ml	
9) Phenanthrene-d10	10.99	188	204606	0.40 ug/ml	
15) Chrysene-d12	15.21	240	233227	0.40 ug/ml	
19) Perylene-d12	17.48	264	252204	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.69	152	96957	0.339ug/mL	
13) Fluoranthene-d10	13.17	212	206540	0.369ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.80	128	9865	0.021ug/ml	97
4) 2-Methylnaphthalene	6.74	142	8156	0.027ug/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	11.03	178	55104	0.094ug/ml	97
12) Anthracene	11.13	178	29027	0.051ug/ml m	95
14) Fluoranthene	13.20	202	116592	0.174ug/ml	93
16) Pyrene	13.56	202	169997	0.232ug/ml m	1
17) Benzo(a)anthracene	15.20	228	99747	0.160ug/ml	90
18) Chrysene	15.24	228	155046	0.236ug/ml	99
20) Benzo(b)fluoranthene	16.78	252	147726	0.188ug/ml	98
21) Benzo(k)fluoranthene	16.82	252	36794	0.045ug/ml m	97
22) Benzo(a)pyrene	17.37	252	78737	0.105ug/ml	91
23) Indeno(1,2,3-c,d)pyrene	20.02	276	80725	0.123ug/ml	100
24) Dibenzo(a,h)anthracene	20.08	278	25770	0.035ug/ml	89
25) Benzo(g,h,i)perylene	20.81	276	45619	0.062ug/ml	57

7.18.15

(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



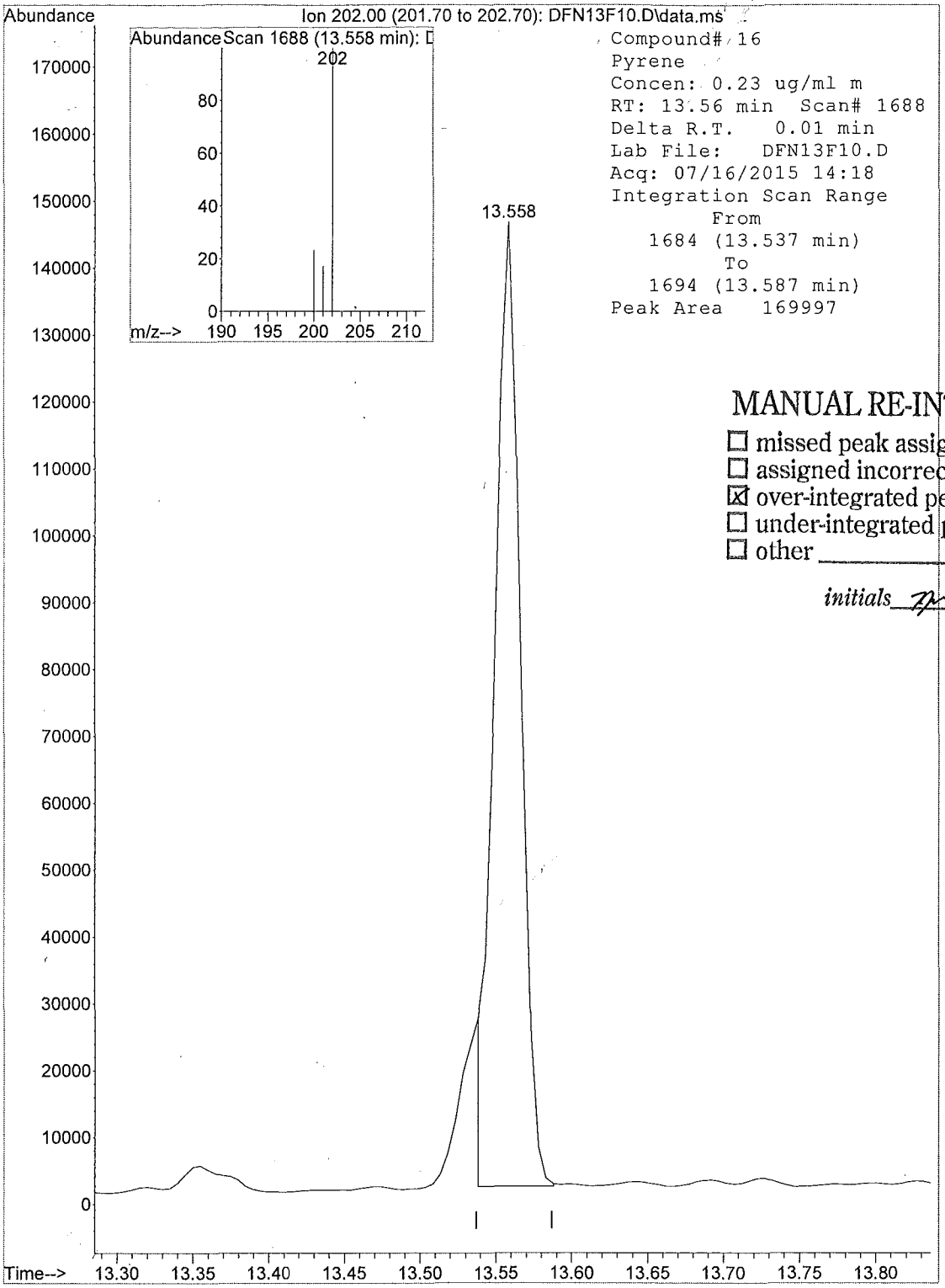
MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☒ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials TJM *date* 7.18.15

DSOM_SIMJ2.M 5975-D DSOM_SIMJ2.M 1515542010 F9M28 . SOIL SIM

M A N U A L I N T E G R A T I O N FOR Pyrene



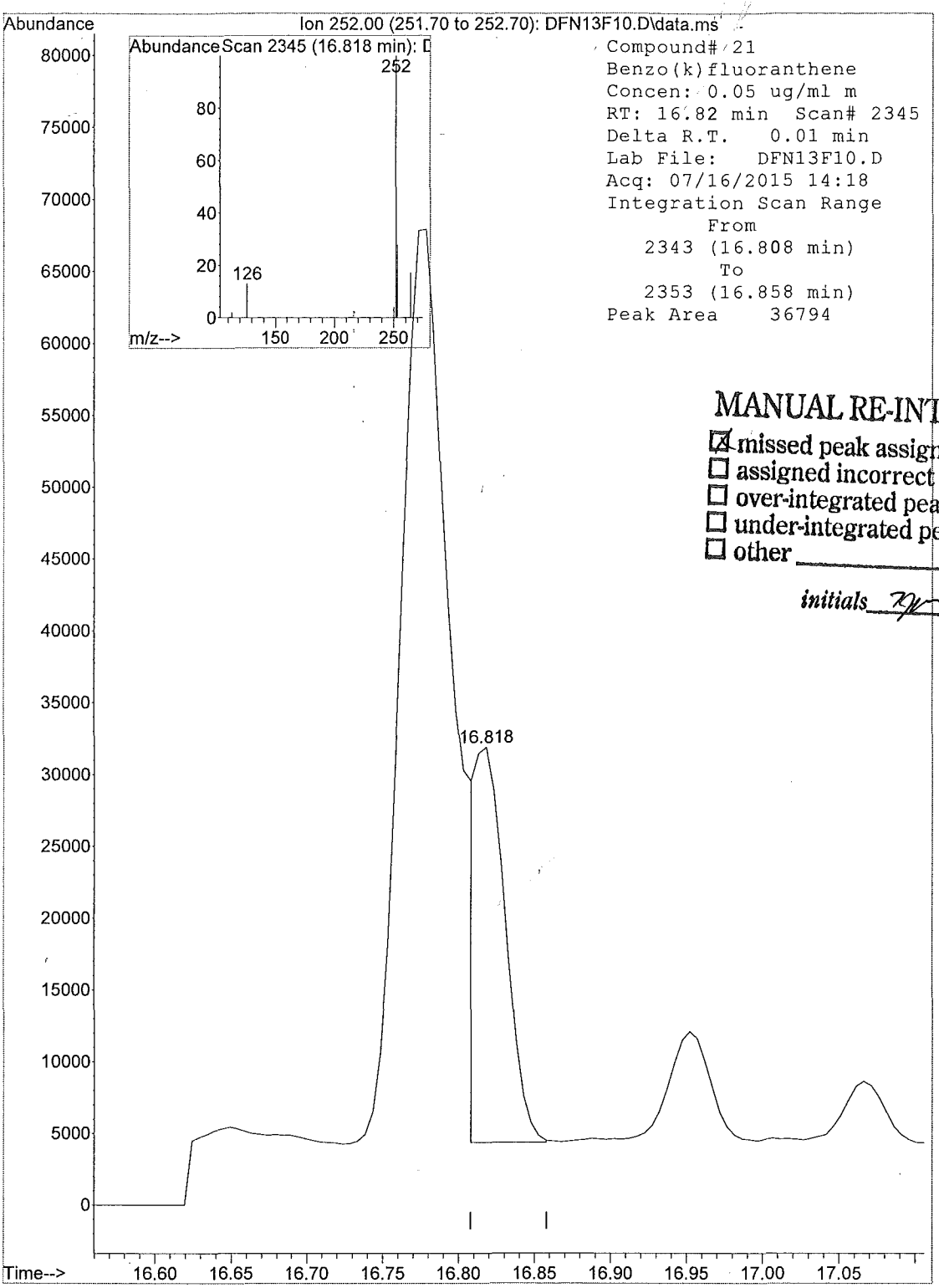
Compound# 16
Pyrene
Concen: 0.23 ug/ml m
RT: 13.56 min Scan# 1688
Delta R.T. 0.01 min
Lab File: DFN13F10.D
Acq: 07/16/2015 14:18
Integration Scan Range
From
1684 (13.537 min)
To
1694 (13.587 min)
Peak Area 169997

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☒ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials ZA *date* 7.16.15

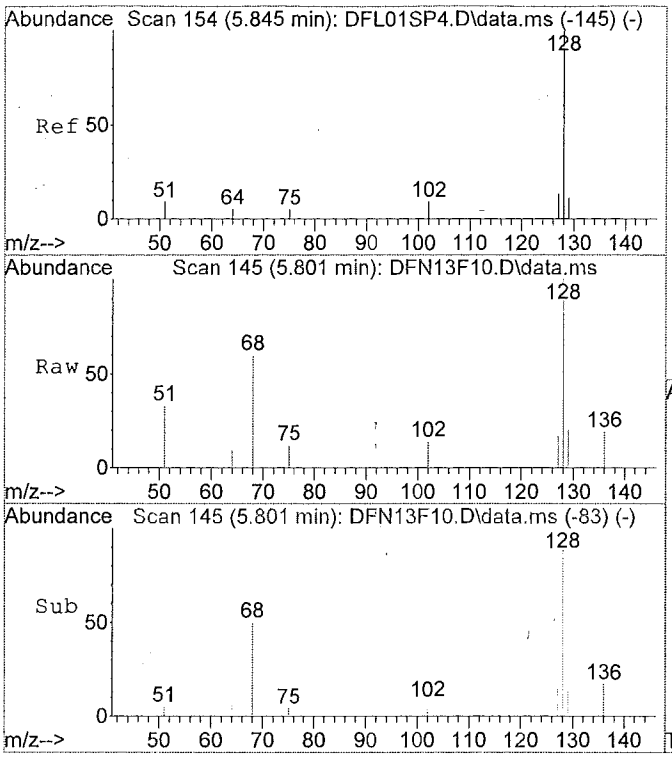
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- ☒ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

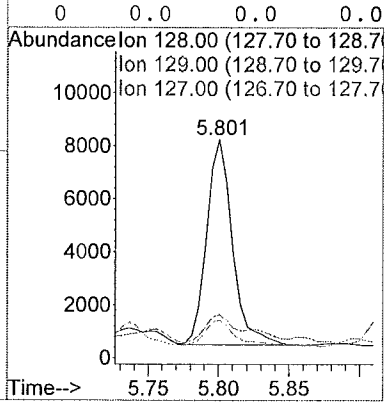
initials ZJ *date* 7.18.15

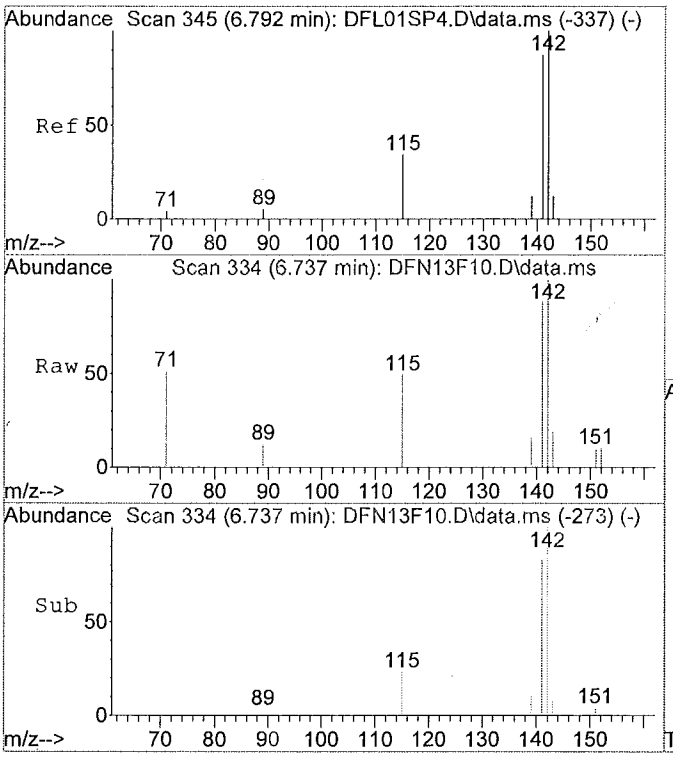


#2
Naphthalene
Concen: 0.02 ug/ml
RT: 5.80 min Scan# 145
Delta R.T. 0.01 min
Lab File: DFN13F10.D
Acq: 07/16/2015 14:18

Tgt Ion:128 Resp: 9865

Ion	Ratio	Lower	Upper
128	100		
129	20.3	0.0	0.0#
127	17.3	11.1	20.5
0	0.0	0.0	0.0

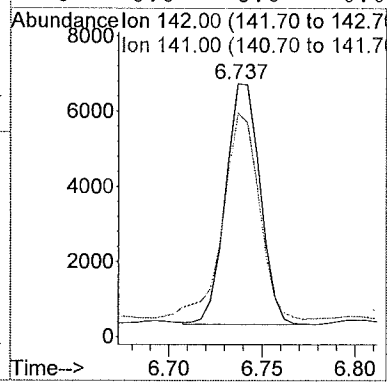


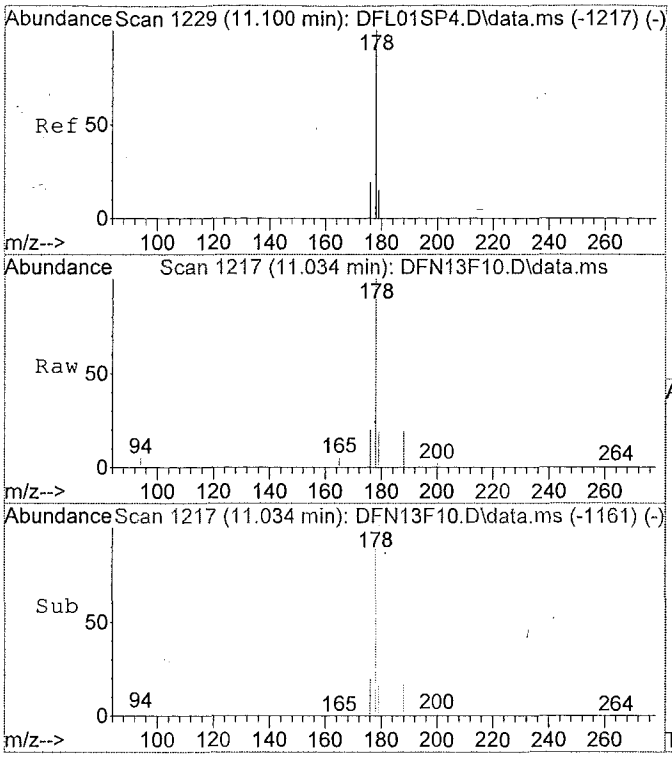


#4
2-Methylnaphthalene
Concen: 0.03 ug/ml
RT: 6.74 min Scan# 334
Delta R.T. 0.00 min
Lab File: DFN13F10.D
Acq: 07/16/2015 14:18

Tgt Ion:142 Resp: 8156

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

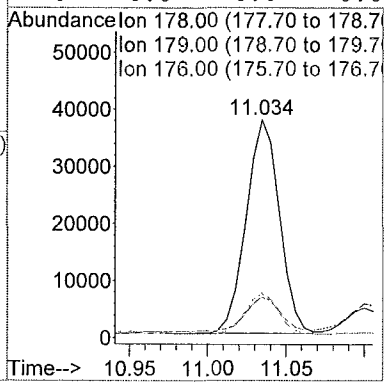


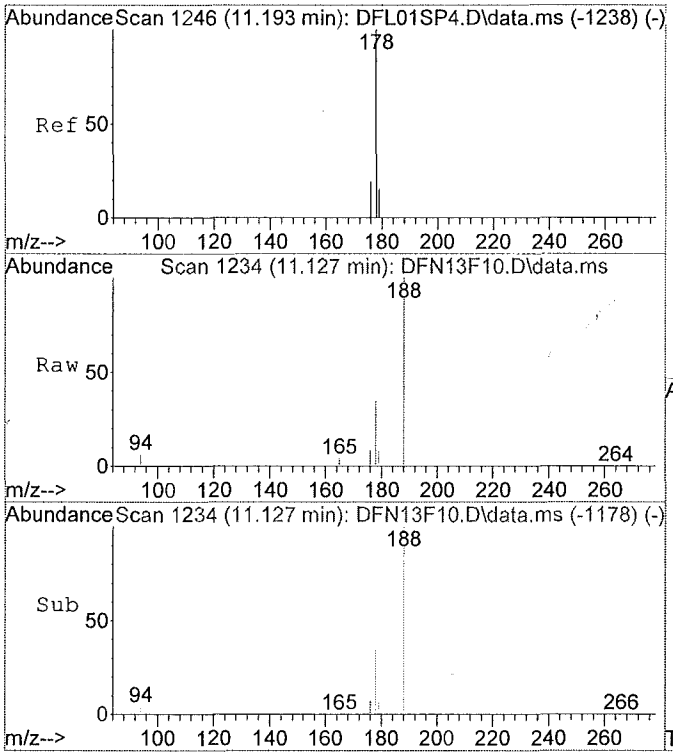


#11
Phenanthrene
Concen: 0.09 ug/ml
RT: 11.03 min Scan# 1217
Delta R.T. 0.01 min
Lab File: DFN13F10.D
Acq: 07/16/2015 14:18

Tgt Ion:178 Resp: 55104

Ion	Ratio	Lower	Upper
178	100		
179	18.0	11.1	20.5
176	19.9	14.1	26.1
0	0.0	0.0	0.0

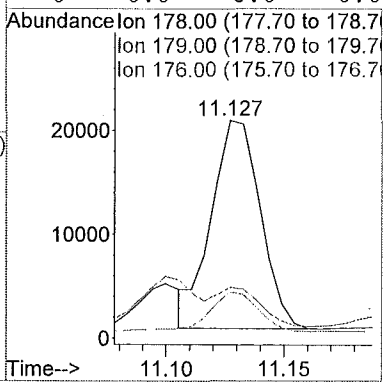


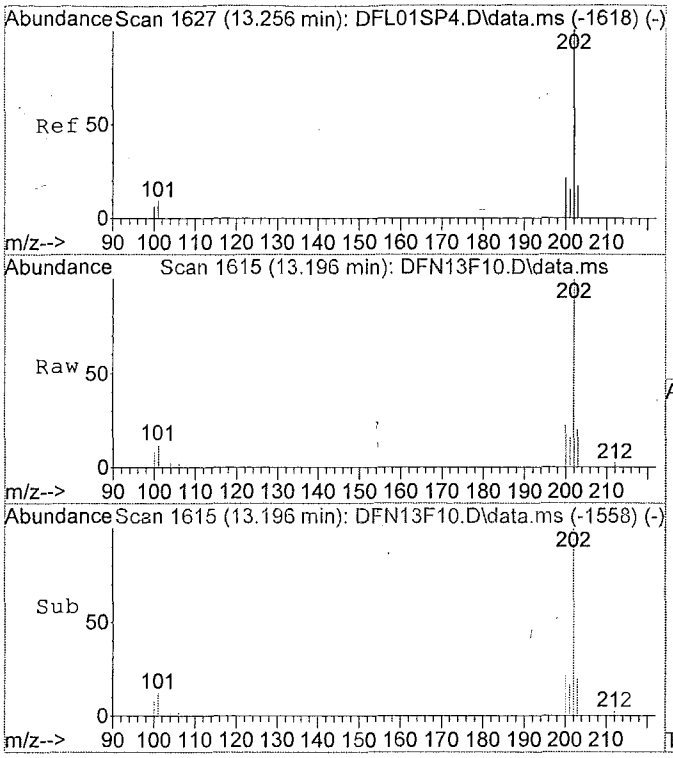


#12
Anthracene
Concen: 0.05 ug/ml m
RT: 11.13 min Scan# 1234
Delta R.T. 0.01 min
Lab File: DFN13F10.D
Acq: 07/16/2015 14:18

Tgt Ion:178 Resp: 29027

Ion	Ratio	Lower	Upper
178	100		
179	16.8	11.6	21.6
176	21.4	13.9	25.7
0	0.0	0.0	0.0

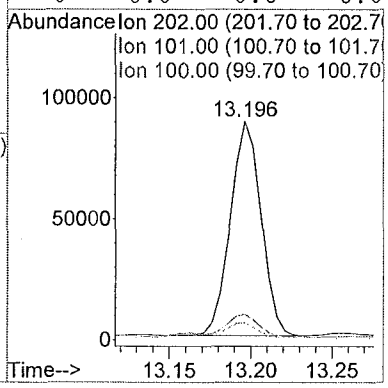


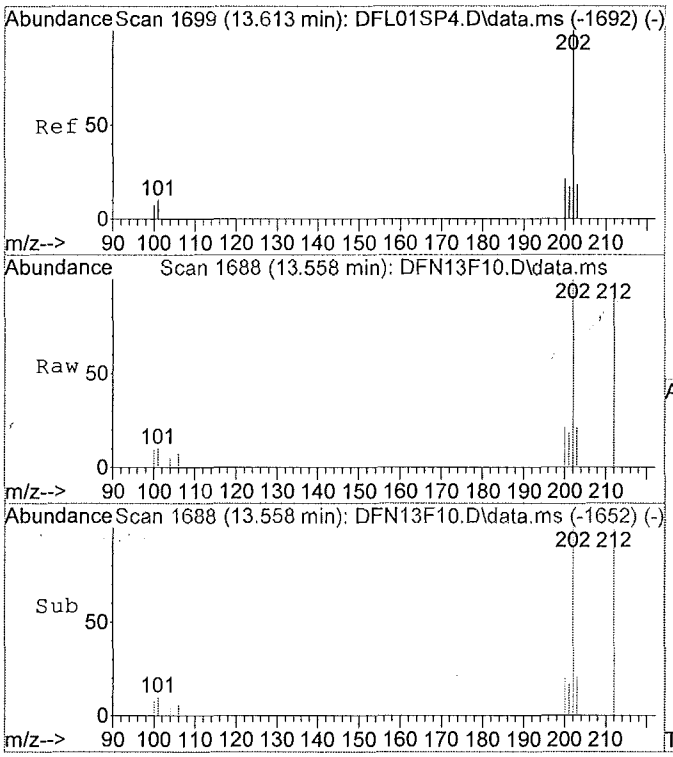


#14
Fluoranthene
Concen: 0.17 ug/ml
RT: 13.20 min Scan# 1615
Delta R.T. 0.01 min
Lab File: DFN13F10.D
Acq: 07/16/2015 14:18

Tgt Ion:202 Resp: 116592

Ion	Ratio	Lower	Upper
202	100		
101	10.8	9.4	17.6
100	7.2	0.0	0.0#
0	0.0	0.0	0.0

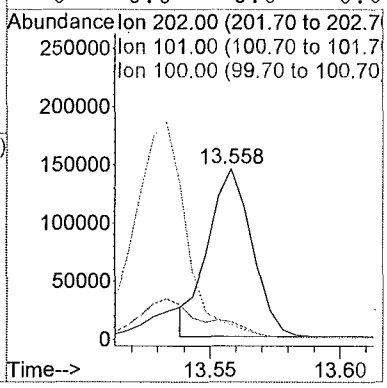


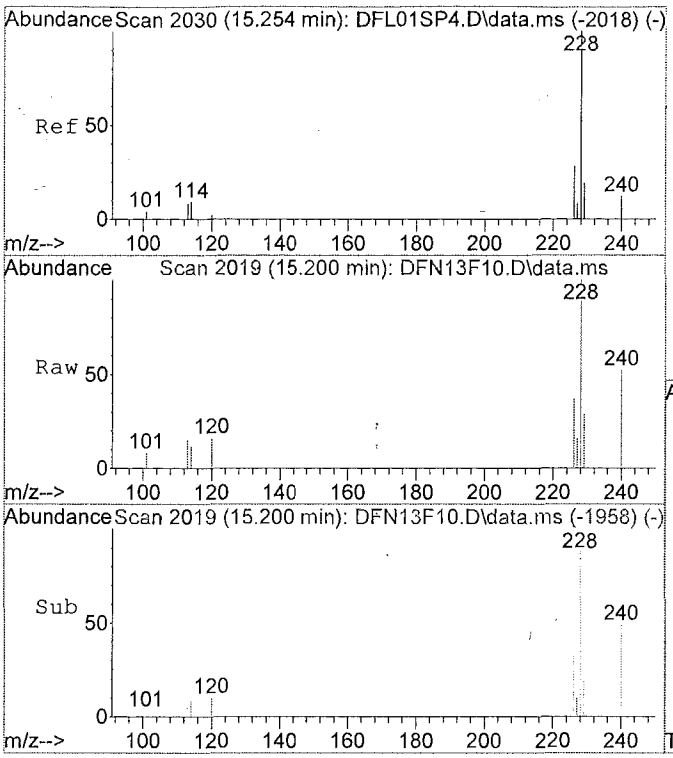


#16
Pyrene
Concen: 0.23 ug/ml m
RT: 13.56 min Scan# 1688
Delta R.T. 0.01 min
Lab File: DFN13F10.D
Acq: 07/16/2015 14:18

Tgt Ion:202 Resp: 169997

Ion	Ratio	Lower	Upper
202	100		
101	36.5	10.6	19.6#
100	153.6	9.4	17.4#
0	0.0	0.0	0.0

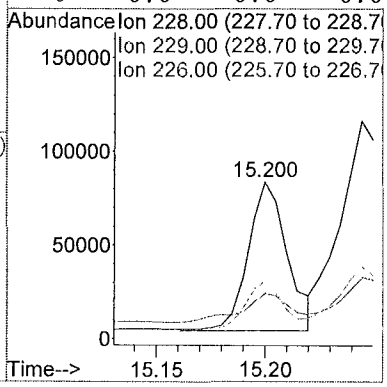


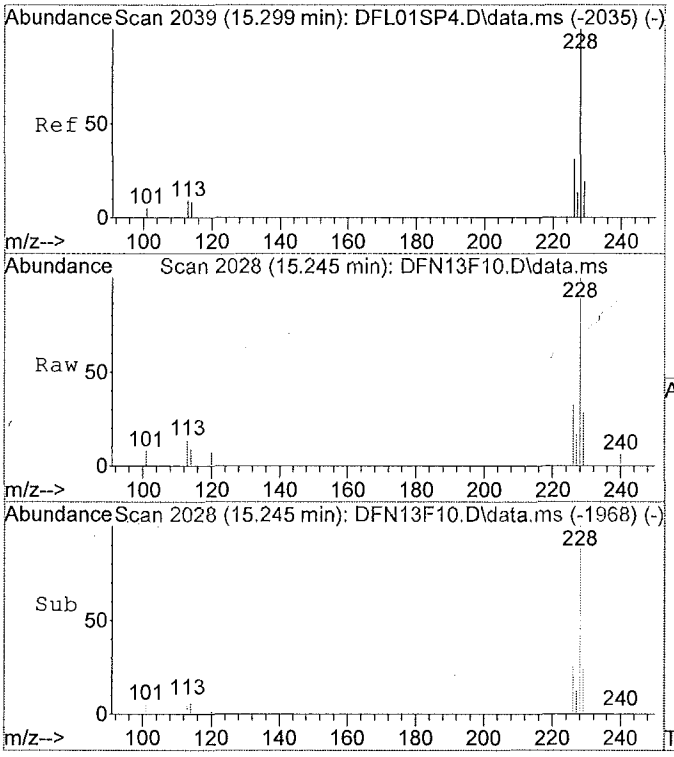


#17
Benzo(a)anthracene
Concen: 0.16 ug/ml
RT: 15.20 min Scan# 2019
Delta R.T. 0.01 min
Lab File: DFN13F10.D
Acq: 07/16/2015 14:18

Tgt Ion:228 Resp: 99747

Ion	Ratio	Lower	Upper
228	100		
229	25.5	14.5	26.9
226	31.8	18.5	34.3
0	0.0	0.0	0.0

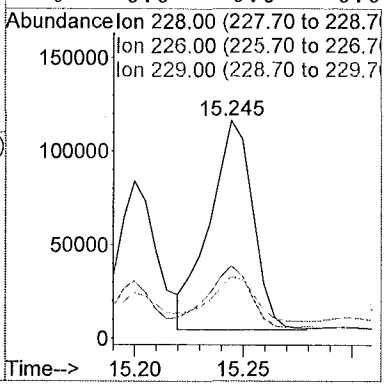


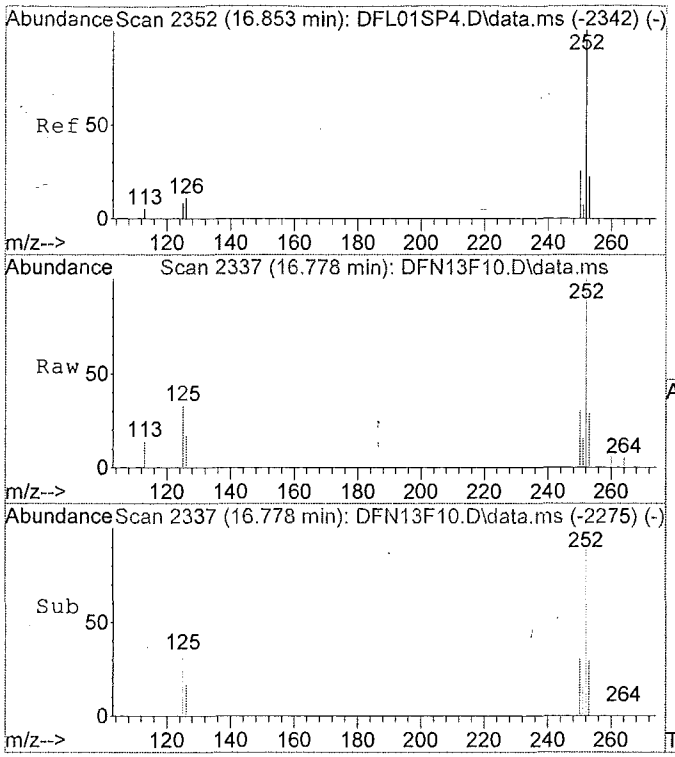


#18
Chrysene
Concen: 0.24 ug/ml
RT: 15.24 min Scan# 2028
Delta R.T. 0.00 min
Lab File: DFN13F10.D
Acq: 07/16/2015 14:18

Tgt Ion:228 Resp: 155046

Ion	Ratio	Lower	Upper
228	100		
226	28.1	19.7	36.7
229	21.7	14.5	26.9
0	0.0	0.0	0.0

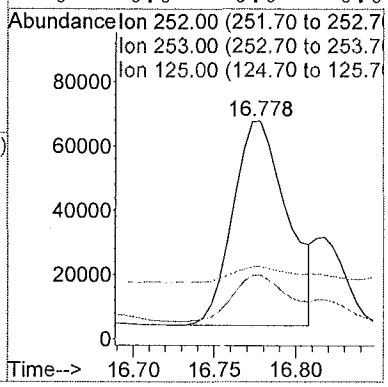


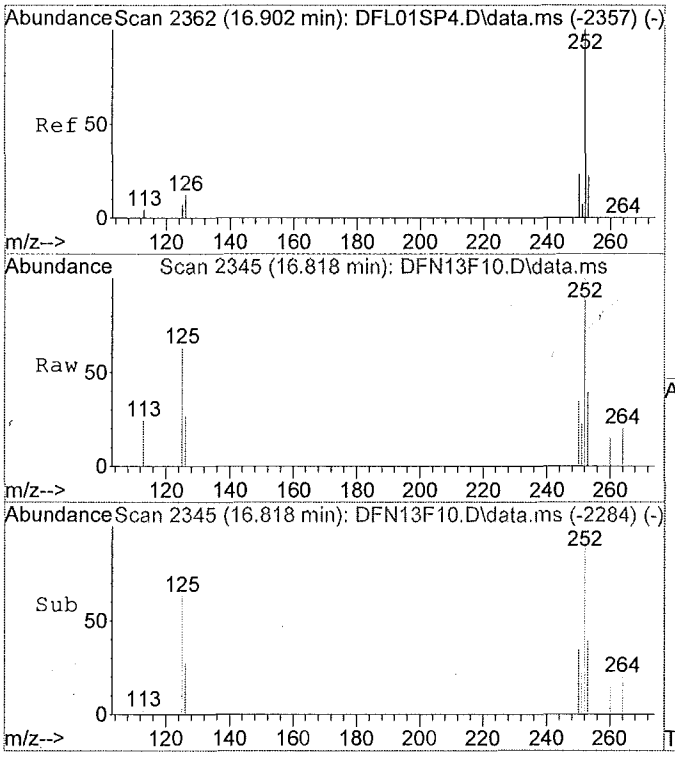


#20
Benzo(b)fluoranthene
Concen: 0.19 ug/ml
RT: 16.78 min Scan# 2337
Delta R.T. 0.01 min
Lab File: DFN13F10.D
Acq: 07/16/2015 14:18

Tgt Ion:252 Resp: 147726

Ion	Ratio	Lower	Upper
252	100		
253	22.6	15.3	28.3
125	0.0	0.0	0.0
0	0.0	0.0	0.0

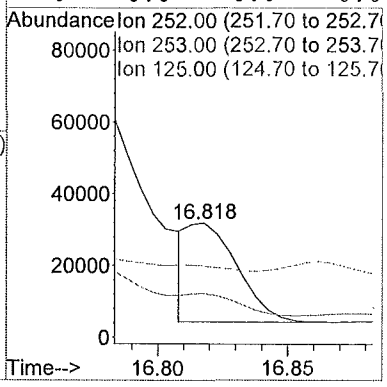


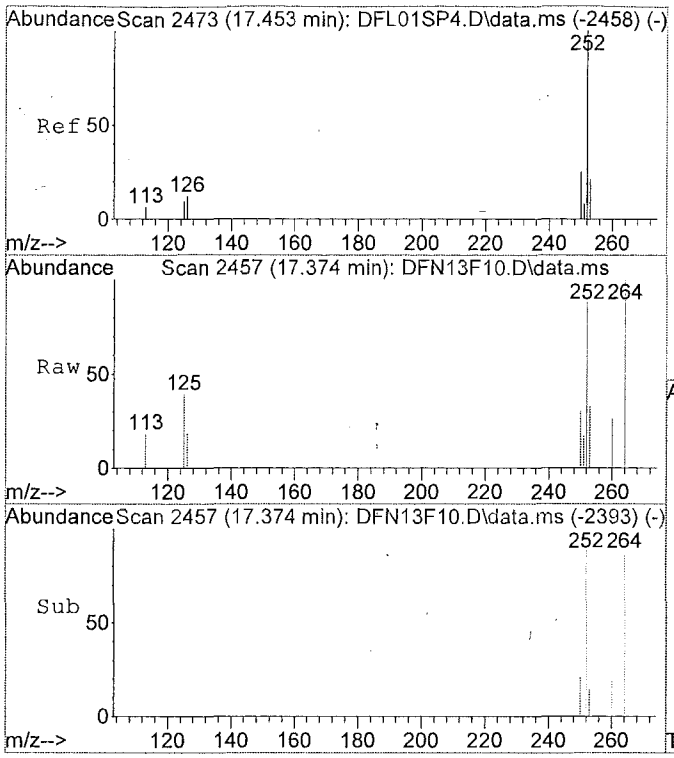


#21
Benzo(k)fluoranthene
Concen: 0.05 ug/ml m
RT: 16.82 min Scan# 2345
Delta R.T. 0.01 min
Lab File: DFN13F10.D
Acq: 07/16/2015 14:18

Tgt Ion:252 Resp: 36794

Ion	Ratio	Lower	Upper
252	100		
253	90.8	15.0	27.8#
125	0.0	0.0	0.0
0	0.0	0.0	0.0

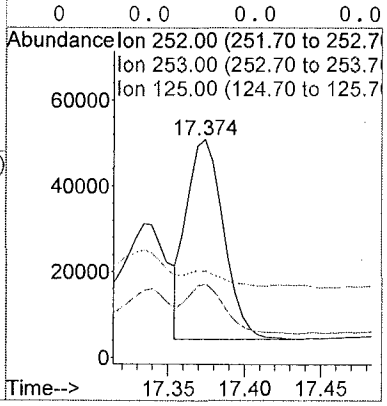


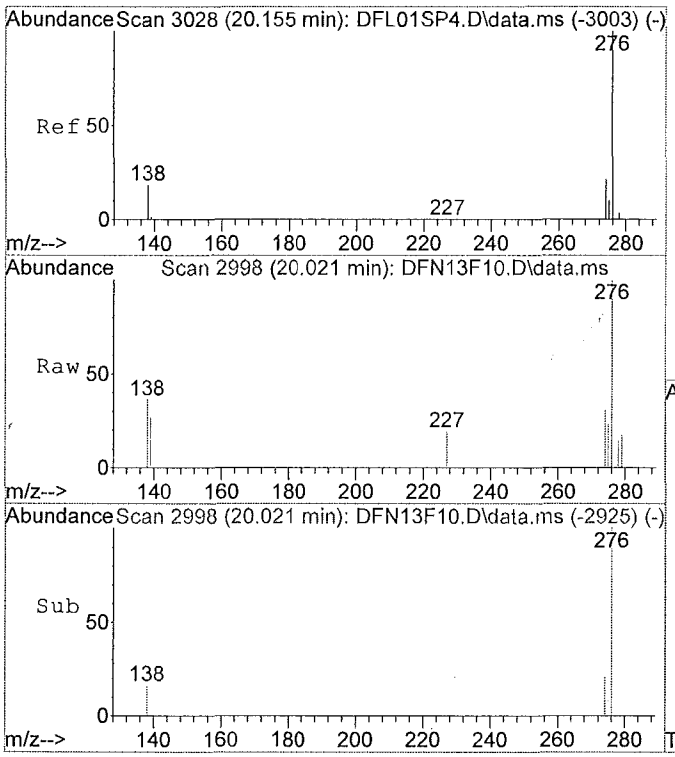


#22
Benzo(a)pyrene
Concen: 0.10 ug/ml
RT: 17.37 min Scan# 2457
Delta R.T. 0.02 min
Lab File: DFN13F10.D
Acq: 07/16/2015 14:18

Tgt Ion:252 Resp: 78737

Ion	Ratio	Lower	Upper
252	100		
253	25.5	15.0	27.8
125	8.2	0.0	0.0#
0	0.0	0.0	0.0

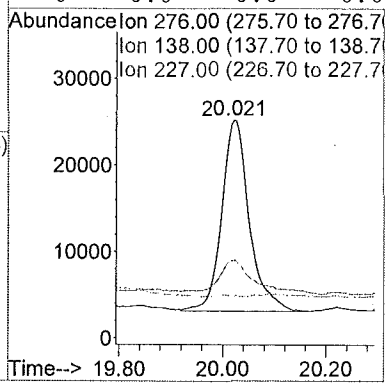


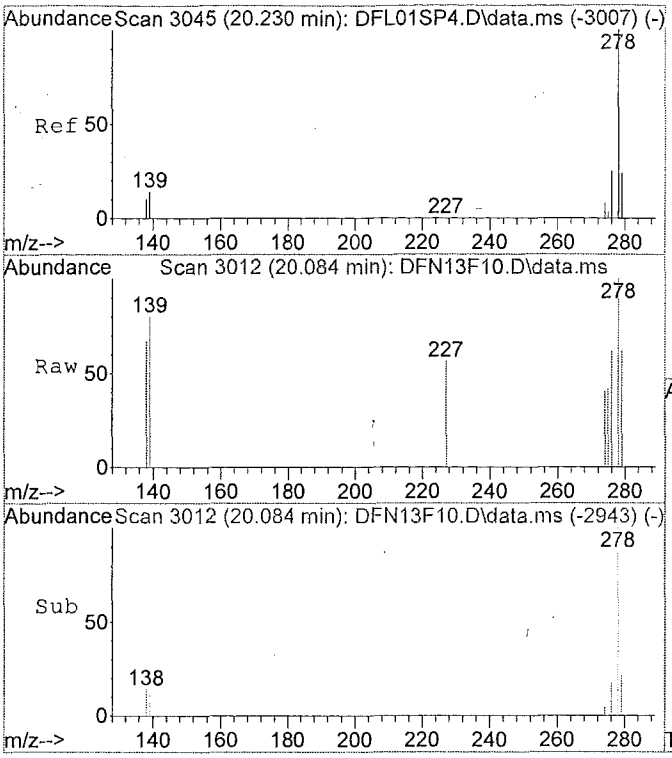


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.12 ug/ml
RT: 20.02 min Scan# 2998
Delta R.T. 0.03 min
Lab File: DFN13F10.D
Acq: 07/16/2015 14:18

Tgt Ion:276 Resp: 80725

Ion	Ratio	Lower	Upper
276	100		
138	22.4	0.0	0.0#
227	0.1	0.0	0.0#
0	0.0	0.0	0.0

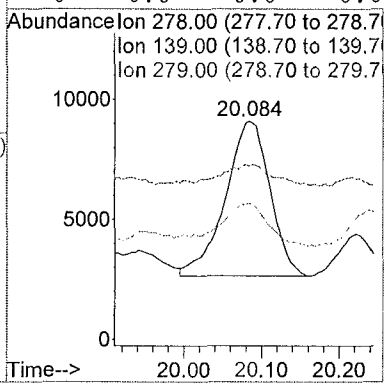


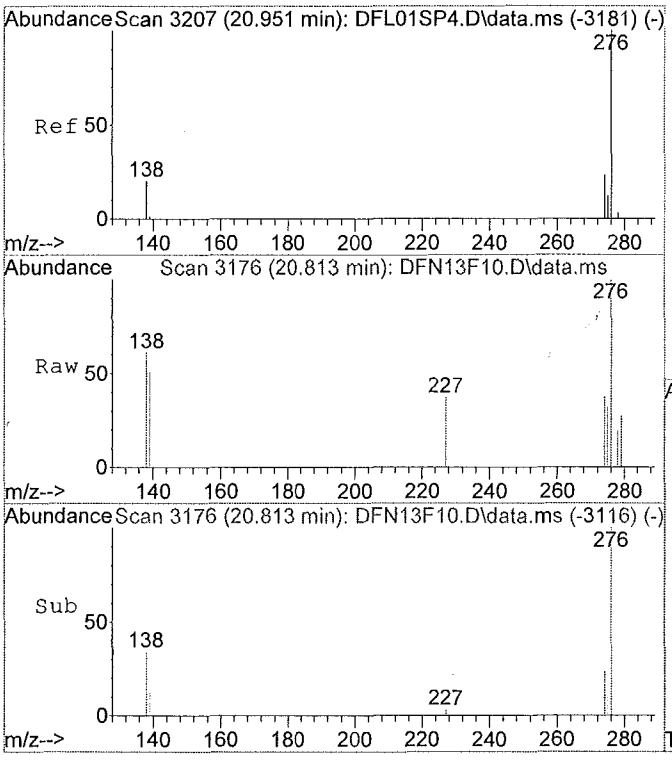


#24
Dibenzo(a,h)anthracene
Concen: 0.04 ug/ml
RT: 20.08 min Scan# 3012
Delta R.T. 0.01 min
Lab File: DFN13F10.D
Acq: 07/16/2015 14:18

Tgt Ion:278 Resp: 25770

Ion	Ratio	Lower	Upper
278	100		
139	14.3	0.0	0.0#
279	27.9	15.8	29.3
0	0.0	0.0	0.0

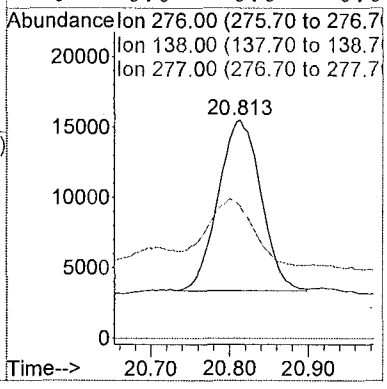




#25
Benzo(g,h,i)perylene
Concen: 0.06 ug/ml
RT: 20.81 min Scan# 3176
Delta R.T. 0.04 min
Lab File: DFN13F10.D
Acq: 07/16/2015 14:18

Tgt Ion:276 Resp: 45619

Ion	Ratio	Lower	Upper
276	100		
138	41.7	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.

F9M29

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFN14F11

Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/16/2015

GPC Cleanup: (Y/N) Y pH: 8.2 Dilution Factor: 1.0

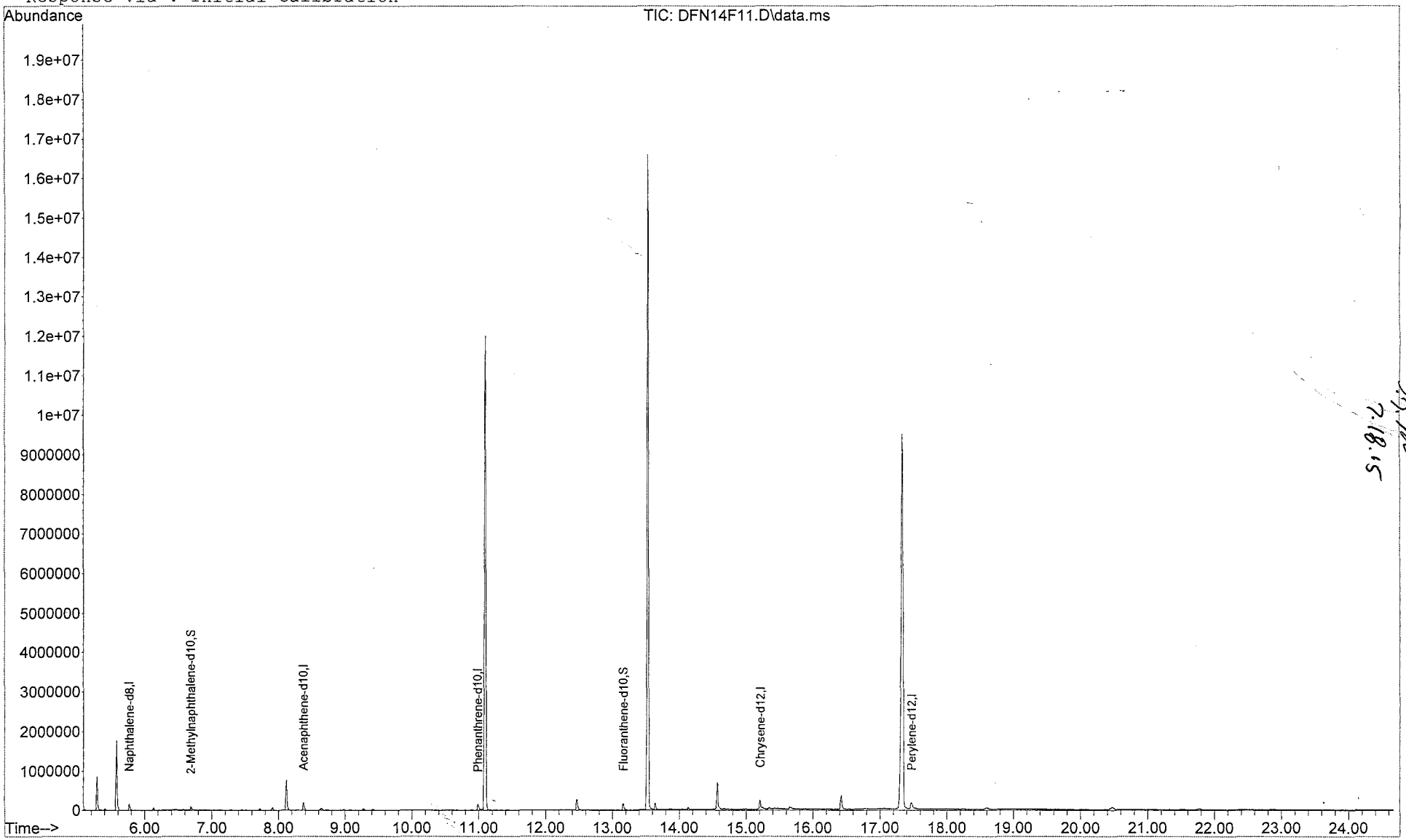
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.8	U
91-57-6	2-Methylnaphthalene	3.8	U
208-96-8	Acenaphthylene	3.8	U
83-32-9	Acenaphthene	3.8	U
86-73-7	Fluorene	3.8	U
87-86-5	Pentachlorophenol	7.7	U
85-01-8	Phenanthrene	1.3	J
120-12-7	Anthracene	3.8	U
206-44-0	Fluoranthene	0.77	J
129-00-0	Pyrene	1.6	J
56-55-3	Benzo(a)anthracene	1.0	J
218-01-9	Chrysene	1.9	J
205-99-2	Benzo(b)fluoranthene	0.96	J
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	0.78	J
53-70-3	Dibenzo(a,h)anthracene	3.8	U
191-24-2	Benzo(g,h,i)perylene	3.8	U

Quantitation Report

Data File : R:\D\2015\JUL15\16JUL15DPM\DFN14F11.D Vial: 8
Acq On : 07/16/2015 14:48 Operator: DJC
Sample : 1515542011 F9M29 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jul 18 12:30:02 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



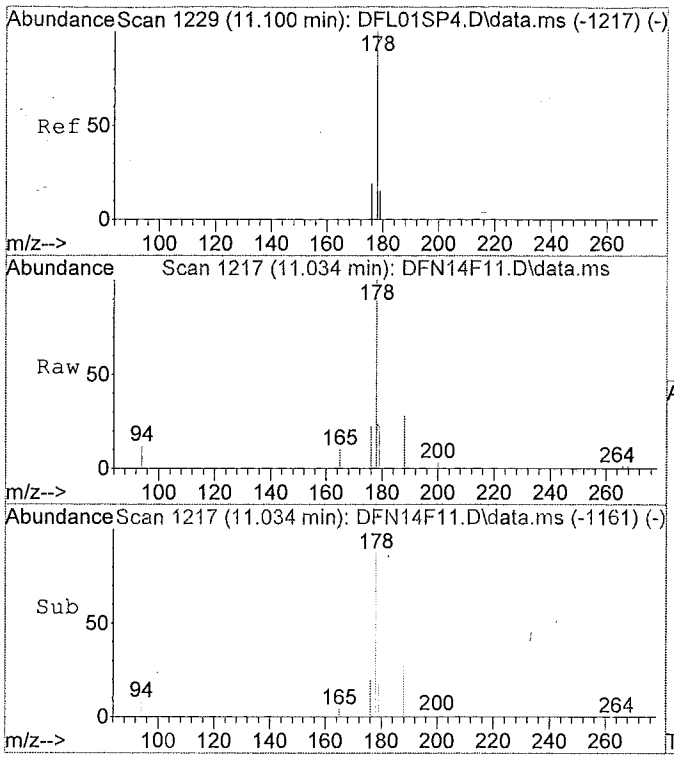
Quantitation Report

Data File : R:\D\2015\JUL15\16JUL15DPM\DFN14F11.D Vial: 8
Acq On : 07/16/2015 14:48 Operator: DJC
Sample : 1515542011 F9M29 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 18 12:30:02 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Qvalue
1) Naphthalene-d8	5.78	136	176990	0.40 ug/ml	
5) Acenaphthene-d10	8.38	164	125428	0.40 ug/ml	
9) Phenanthrene-d10	11.00	188	201098	0.40 ug/ml	
15) Chrysene-d12	15.21	240	226784	0.40 ug/ml	
19) Perylene-d12	17.47	264	260399	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.69	152	96226	0.337ug/mL	
13) Fluoranthene-d10	13.17	212	189679	0.345ug/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	11.03	178	19957	0.034ug/ml	94
12) Anthracene	0.00	178		Not Detected	
14) Fluoranthene	13.20	202	13199	0.020ug/ml	96
16) Pyrene	13.56	202	29806	0.042ug/ml	65
17) Benzo(a)anthracene	15.20	228	15961	0.026ug/ml	91
18) Chrysene	15.24	228	30934	0.048ug/ml	96
20) Benzo(b)fluoranthene	16.77	252	20388	0.025ug/ml	94
21) Benzo(k)fluoranthene	0.00	252		Not Detected	
22) Benzo(a)pyrene	0.00	252		Not Detected	
23) Indeno(1,2,3-c,d)pyrene	20.02	276	13845	0.020ug/ml	100
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	0.00	276		Not Detected	

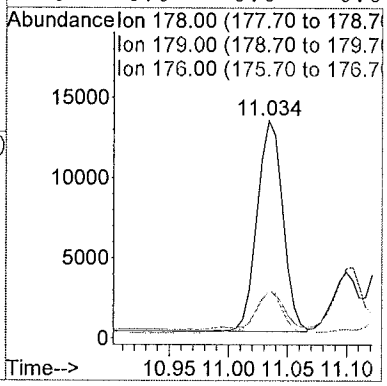
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

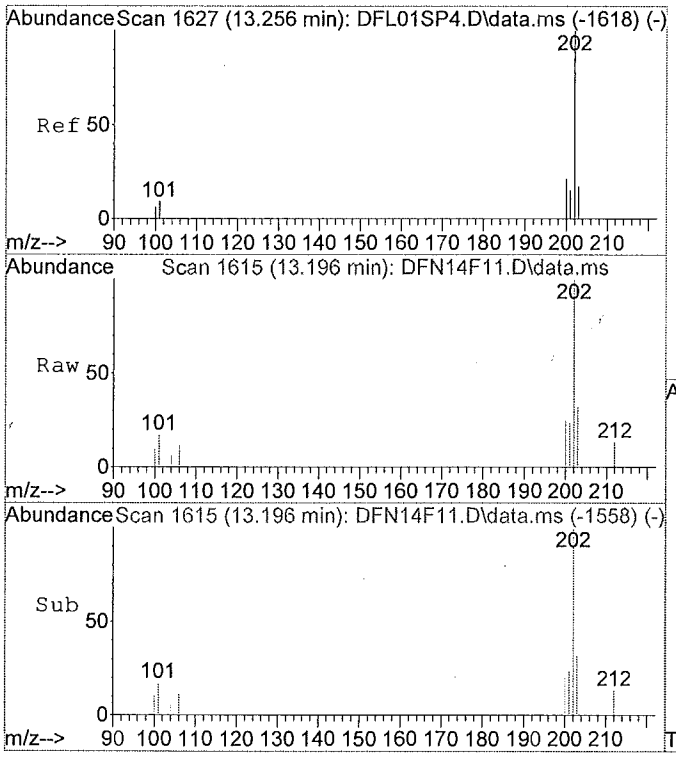


#11
Phenanthrene
Concen: 0.03 ug/ml
RT: 11.03 min Scan# 1217
Delta R.T. 0.01 min
Lab File: DFN14F11.D
Acq: 07/16/2015 14:48

Tgt Ion:178 Resp: 19957

Ion	Ratio	Lower	Upper
178	100		
179	20.6	11.1	20.5#
176	20.7	14.1	26.1
0	0.0	0.0	0.0

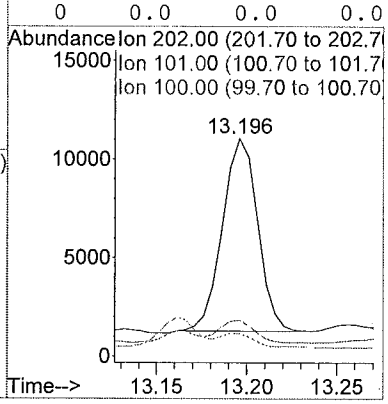


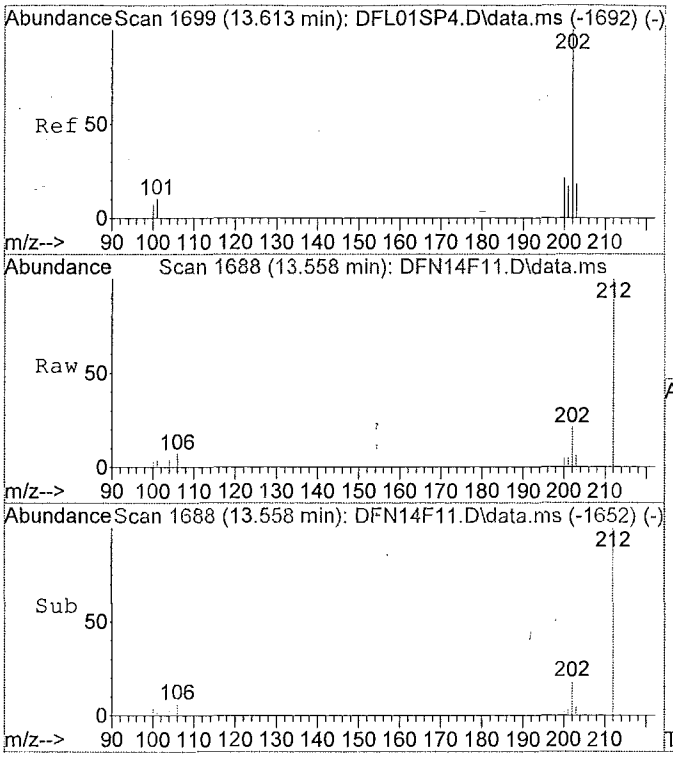


#14
Fluoranthene
Concen: 0.02 ug/ml
RT: 13.20 min Scan# 1615
Delta R.T. 0.00 min
Lab File: DFN14F11.D
Acq: 07/16/2015 14:48

Tgt Ion:202 Resp: 13199

Ion	Ratio	Lower	Upper
202	100		
101	11.7	9.4	17.6
100	7.5	0.0	0.0#
0	0.0	0.0	0.0

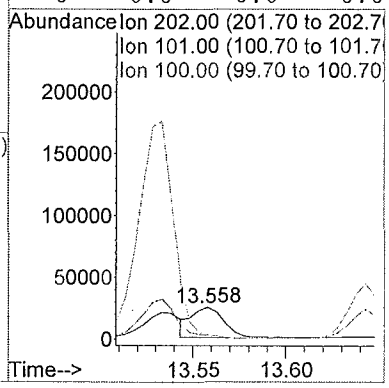


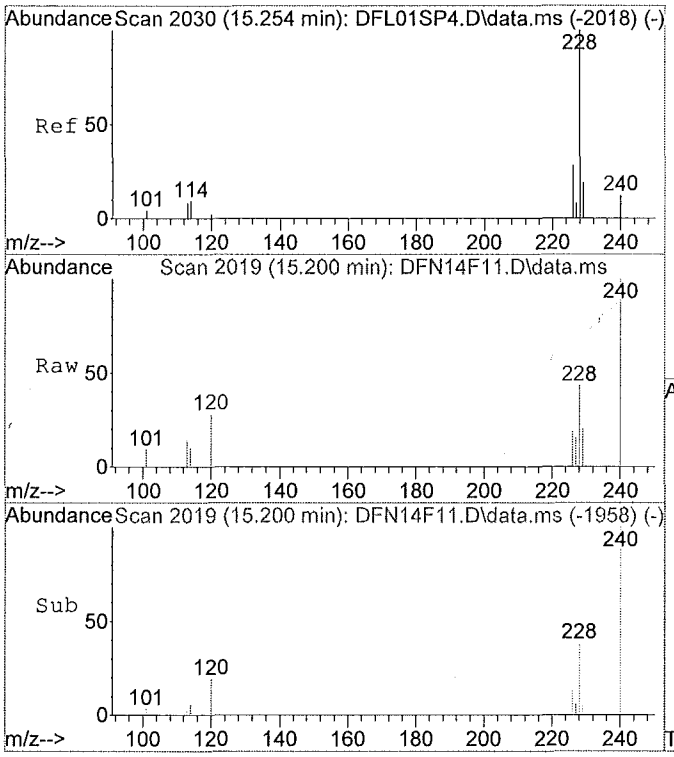


#16
Pyrene
Concen: 0.04 ug/ml
RT: 13.56 min Scan# 1688
Delta R.T. 0.01 min
Lab File: DFN14F11.D
Acq: 07/16/2015 14:48

Tgt Ion:202 Resp: 29806

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

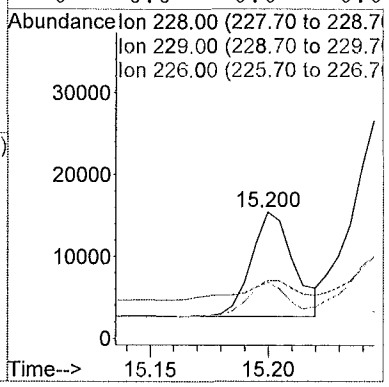


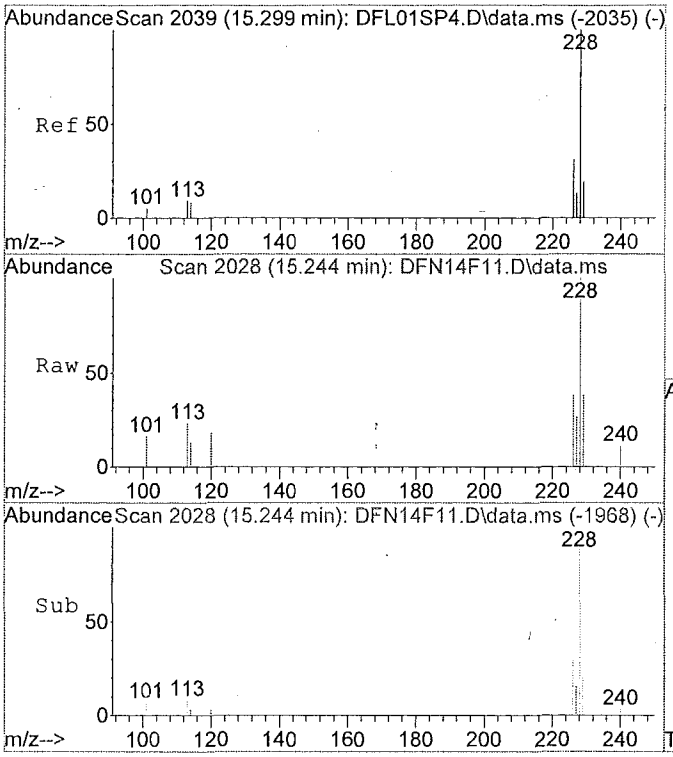


#17
Benzo(a)anthracene
Concen: 0.03 ug/ml
RT: 15.20 min Scan# 2019
Delta R.T. 0.00 min
Lab File: DFN14F11.D
Acq: 07/16/2015 14:48

Tgt Ion:228 Resp: 15961

Ion	Ratio	Lower	Upper
228	100		
229	23.7	14.5	26.9
226	32.2	18.5	34.3
0	0.0	0.0	0.0

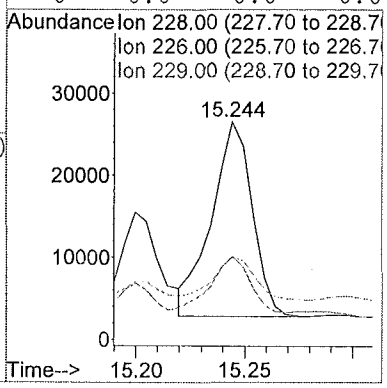


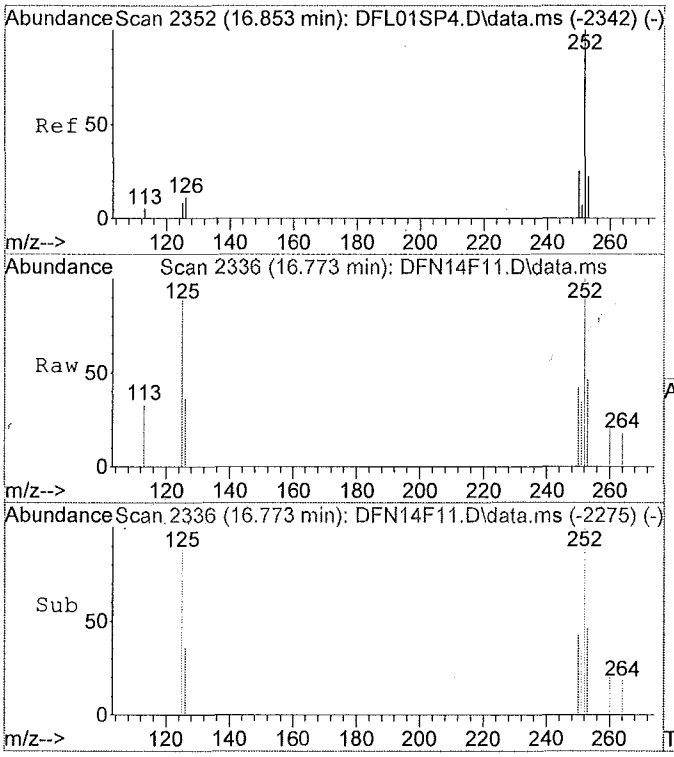


#18
Chrysene
Concen: 0.05 ug/ml
RT: 15.24 min Scan# 2028
Delta R.T. -0.00 min
Lab File: DFN14F11.D
Acq: 07/16/2015 14:48

Tgt Ion:228 Resp: 30934

Ion	Ratio	Lower	Upper
228	100		
226	29.4	19.7	36.7
229	23.3	14.5	26.9
0	0.0	0.0	0.0

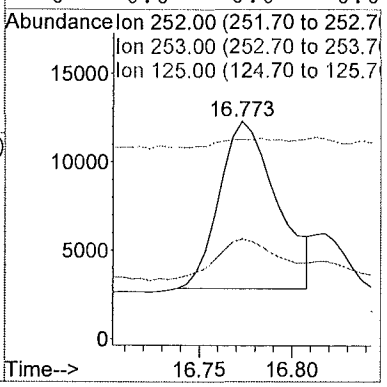


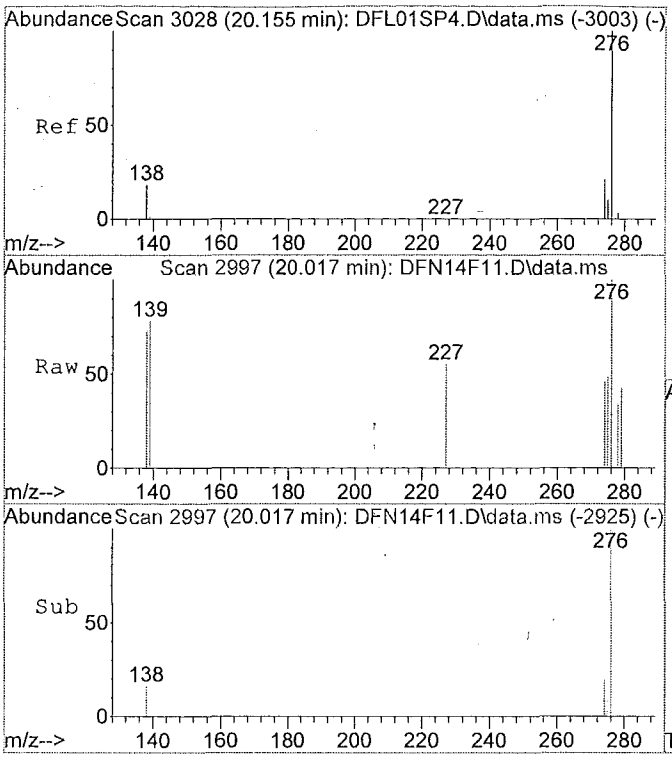


#20
Benzo(b)fluoranthene
Concen: 0.03 ug/ml
RT: 16.77 min Scan# 2336
Delta R.T. 0.01 min
Lab File: DFN14F11.D
Acq: 07/16/2015 14:48

Tgt Ion:252 Resp: 20388

Ion	Ratio	Lower	Upper
252	100		
253	18.9	15.3	28.3
125	0.0	0.0	0.0
0	0.0	0.0	0.0

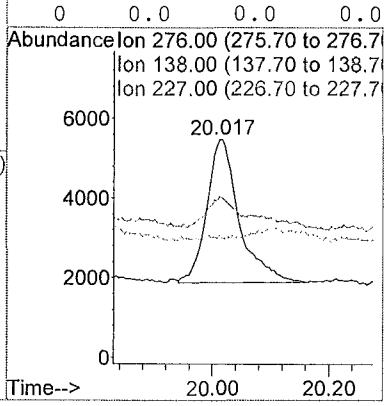




#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.02 ug/ml
RT: 20.02 min Scan# 2997
Delta R.T. 0.02 min
Lab File: DFN14F11.D
Acq: 07/16/2015 14:48

Tgt Ion:276 Resp: 13845

Ion	Ratio	Lower	Upper
276	100		
138	18.0	0.0	0.0#
227	0.4	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.

F9M30

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFN15F12

Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/16/2015

GPC Cleanup: (Y/N) Y pH: 8.2 Dilution Factor: 1.0

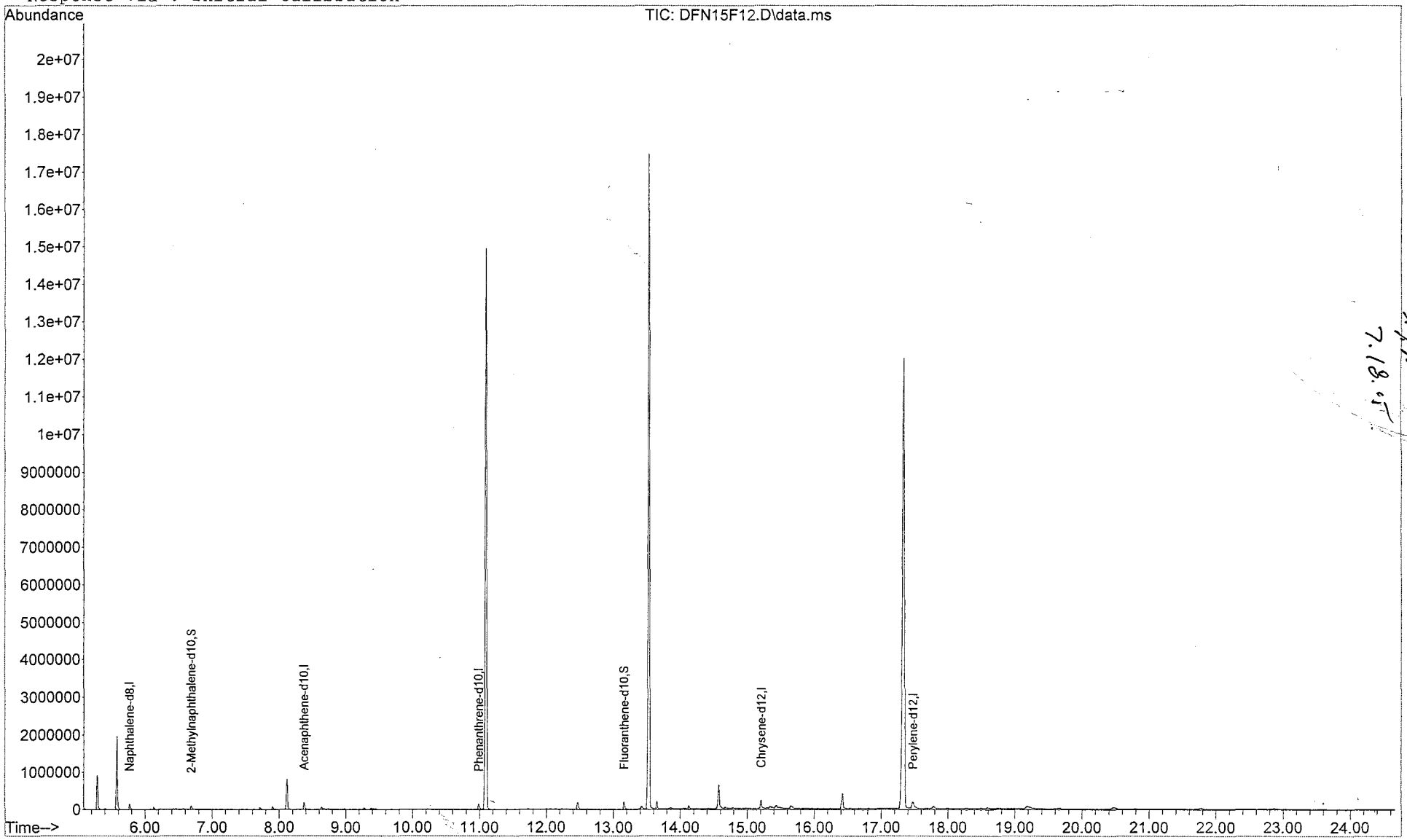
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.9	U
91-57-6	2-Methylnaphthalene	3.9	U
208-96-8	Acenaphthylene	3.9	U
83-32-9	Acenaphthene	3.9	U
86-73-7	Fluorene	3.9	U
87-86-5	Pentachlorophenol	7.8	U
85-01-8	Phenanthrene	3.9	U
120-12-7	Anthracene	3.9	U
206-44-0	Fluoranthene	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\JUL15\16JUL15DPM\DFN15F12.D Vial: 9
Acq On : 07/16/2015 15:18 Operator: DJC
Sample : 1515542012 F9M30 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jul 18 12:30:37 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



7.18.15

Quantitation Report

Data File : R:\D\2015\JUL15\16JUL15DPM\DFN15F12.D Vial: 9
Acq On : 07/16/2015 15:18 Operator: DJC
Sample : 1515542012 F9M30 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 18 12:30:37 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 1 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	5.78	136	165740	0.40 ug/ml
5) Acenaphthene-d10	8.38	164	120506	0.40 ug/ml
9) Phenanthrene-d10	10.99	188	192449	0.40 ug/ml
15) Chrysene-d12	15.21	240	216141	0.40 ug/ml
19) Perylene-d12	17.47	264	247966	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	6.69	152	99590	0.372ug/mL
13) Fluoranthene-d10	13.17	212	222552	0.423ug/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)

00922

1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: F9M31

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFN16F13

Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/16/2015

GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 1.0

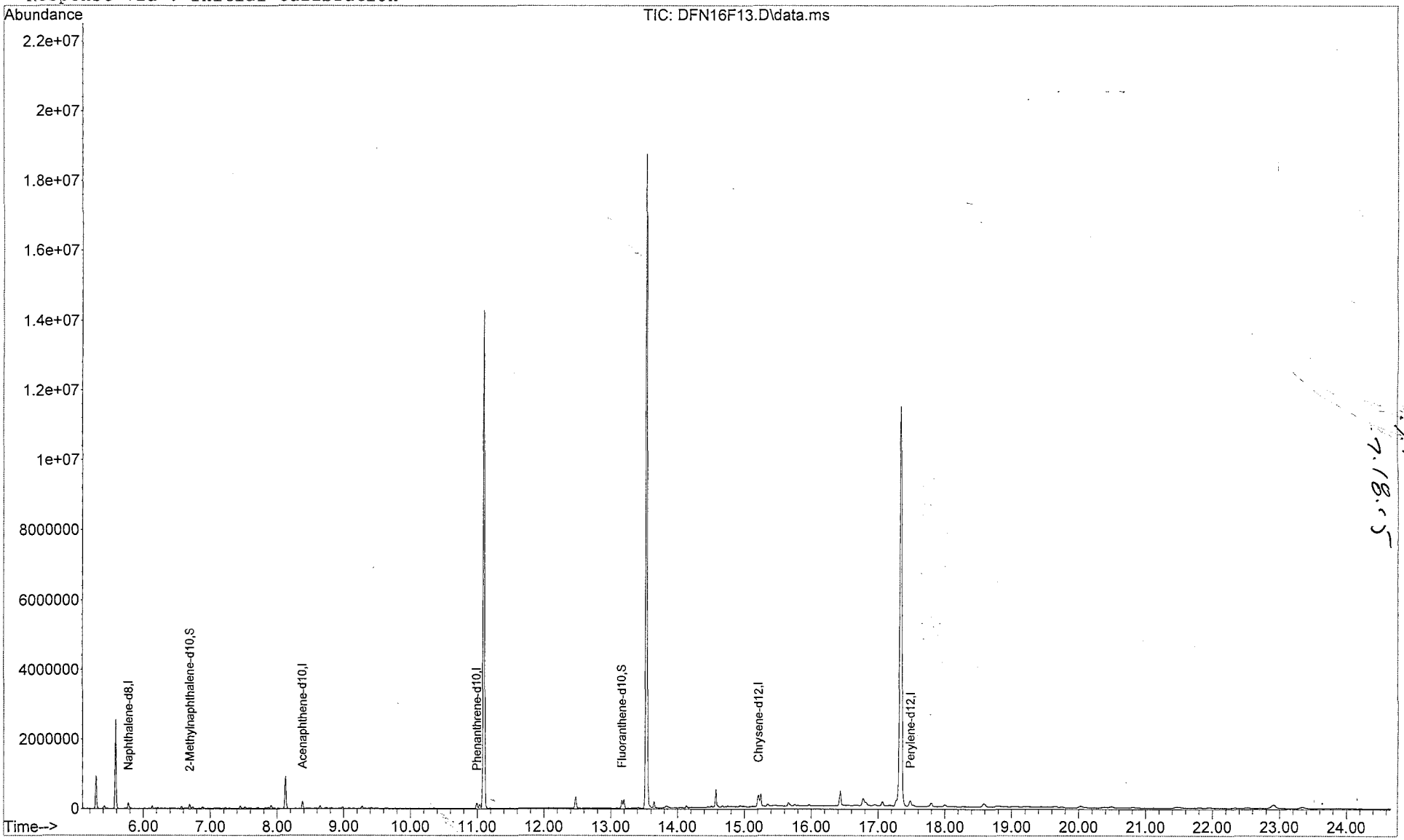
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	2.0	J
91-57-6	2-Methylnaphthalene	3.3	J
208-96-8	Acenaphthylene	1.6	J
83-32-9	Acenaphthene	3.9	U
86-73-7	Fluorene	3.9	U
87-86-5	Pentachlorophenol	7.8	U
85-01-8	Phenanthrene	6.8	
120-12-7	Anthracene	3.8	J
206-44-0	Fluoranthene	11.	
129-00-0	Pyrene	16.	
56-55-3	Benzo(a)anthracene	9.5	
218-01-9	Chrysene	15.	
205-99-2	Benzo(b)fluoranthene	12.	
207-08-9	Benzo(k)fluoranthene	3.3	J
50-32-8	Benzo(a)pyrene	6.7	
193-39-5	Indeno(1,2,3-cd)pyrene	6.6	
53-70-3	Dibenzo(a,h)anthracene	2.0	J
191-24-2	Benzo(g,h,i)perylene	1.5	J

Quantitation Report

Data File : R:\D\2015\JUL15\16JUL15DPM\DFN16F13.D Vial: 10
Acq On : 07/16/2015 15:49 Operator: DJC
Sample : 1515542013 F9M31 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jul 18 12:31:37 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



Quantitation Report

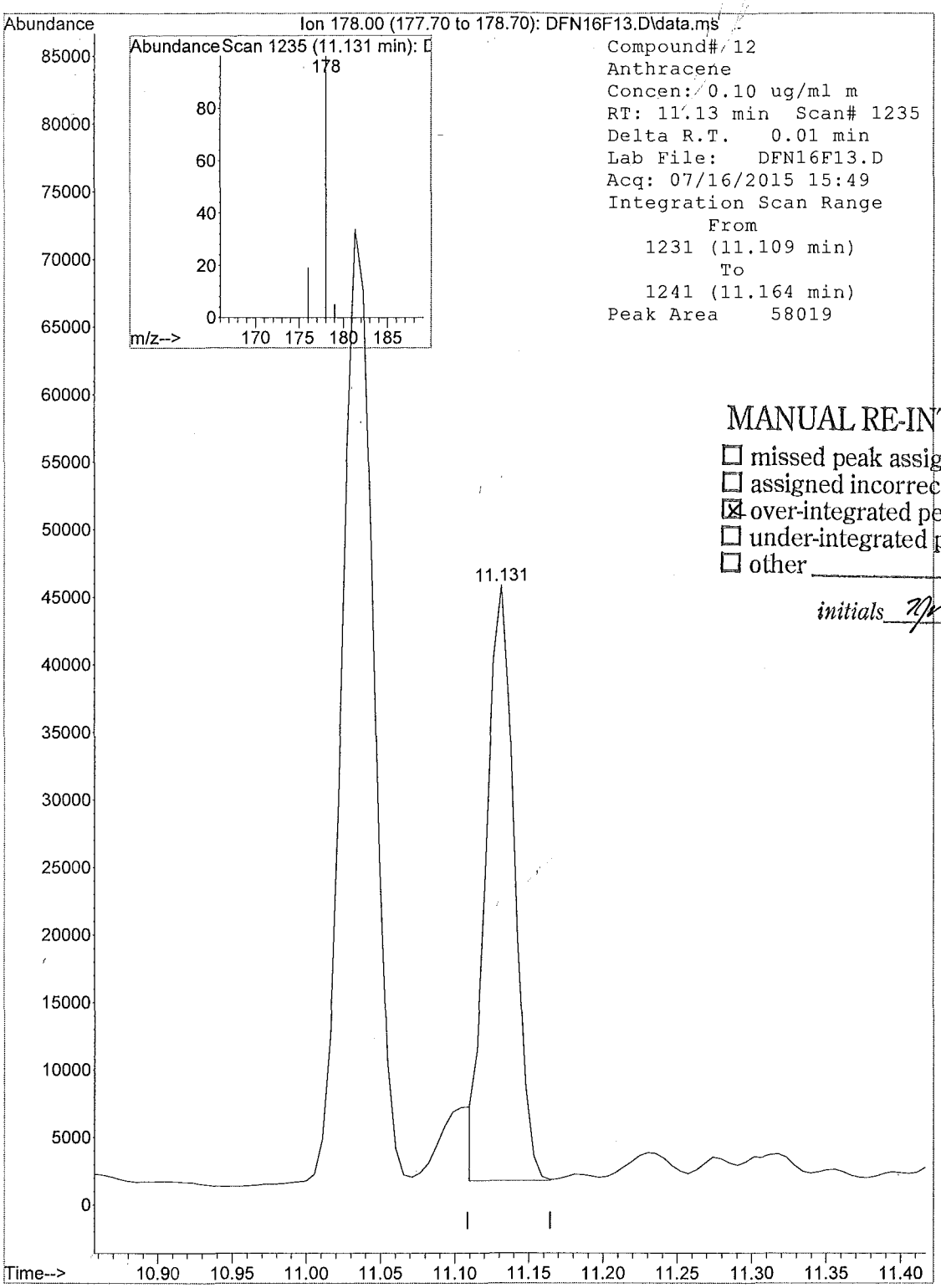
Data File : R:\D\2015\JUL15\16JUL15DPM\DFN16F13.D Vial: 10
Acq On : 07/16/2015 15:49 Operator: DJC
Sample : 1515542013 F9M31 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 18 12:31:37 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.78	136	175919	0.40 ug/ml	
5) Acenaphthene-d10	8.38	164	131642	0.40 ug/ml	
9) Phenanthrene-d10	10.99	188	210653	0.40 ug/ml	
15) Chrysene-d12	15.21	240	239901	0.40 ug/ml	
19) Perylene-d12	17.48	264	259795	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.69	152	114611	0.404ug/mL	
13) Fluoranthene-d10	13.17	212	246083	0.427ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.80	128	23429	0.051ug/ml	95
4) 2-Methylnaphthalene	6.74	142	24776	0.084ug/ml	99
6) Acenaphthylene	8.14	152	23468	0.041ug/ml	65
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	106387	0.175ug/ml	99
12) Anthracene	11.13	178	58019	0.098ug/ml m	97 7.18.15
14) Fluoranthene	13.19	202	191670	0.278ug/ml	92
16) Pyrene	13.56	202	308421	0.410ug/ml	1
17) Benzo(a)anthracene	15.20	228	155459	0.243ug/ml	89
18) Chrysene	15.25	228	258082	0.382ug/ml	98
20) Benzo(b)fluoranthene	16.78	252	257300	0.318ug/ml	97
21) Benzo(k)fluoranthene	16.82	252	70957	0.085ug/ml m	97 7.18.15
22) Benzo(a)pyrene	17.37	252	132722	0.172ug/ml	94
23) Indeno(1,2,3-c,d)pyrene	20.03	276	114049	0.168ug/ml	100
24) Dibenzo(a,h)anthracene	20.10	278	37801	0.050ug/ml	93
25) Benzo(g,h,i)perylene	20.82	276	30264	0.040ug/ml	12

(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



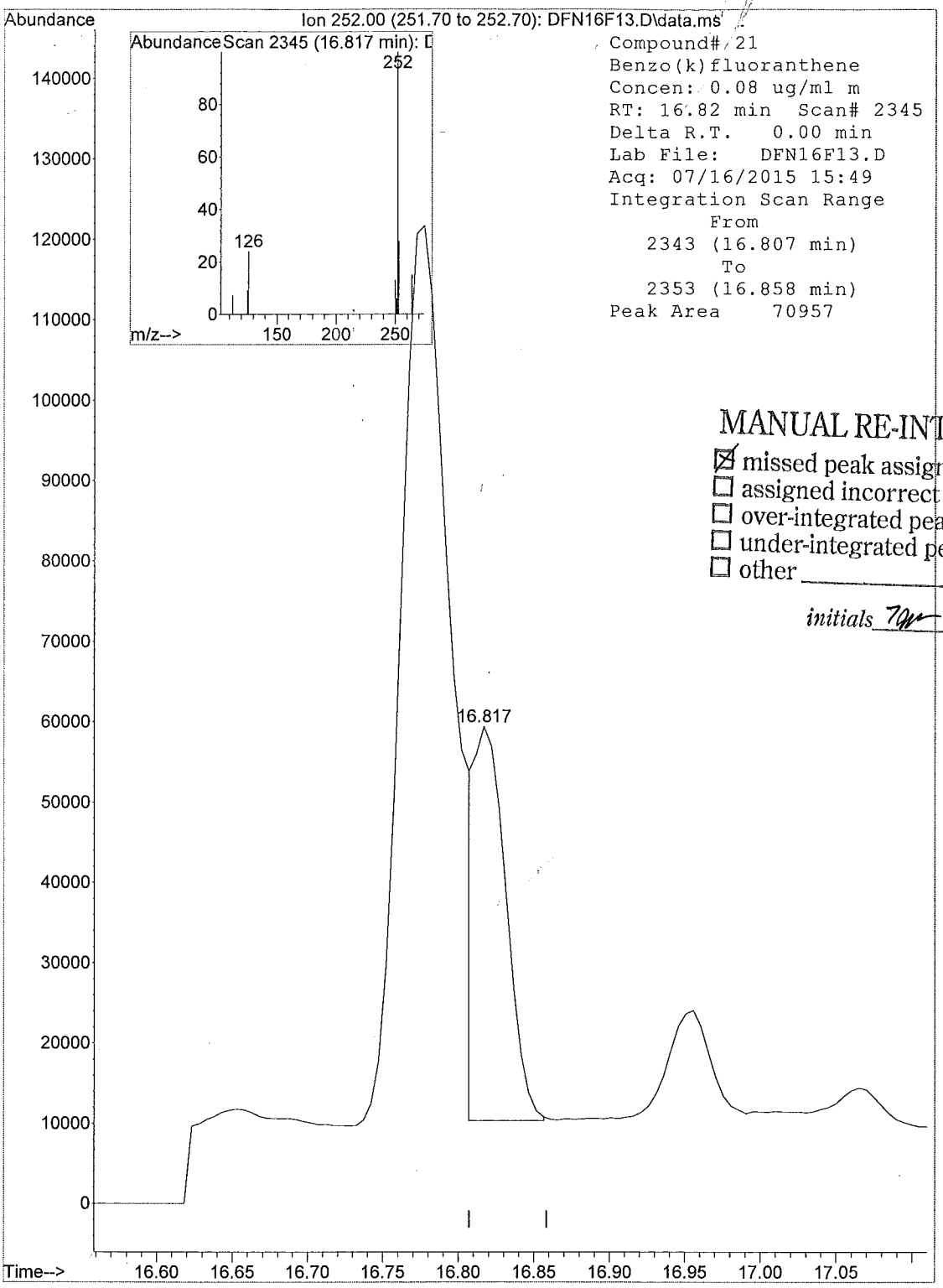
MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☒ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials NJR *date* 7.18.15

DSOM_SIMJ2.M 5975-D DSOM_SIMJ2.M 1515542013 F9M31 . SOIL SIM

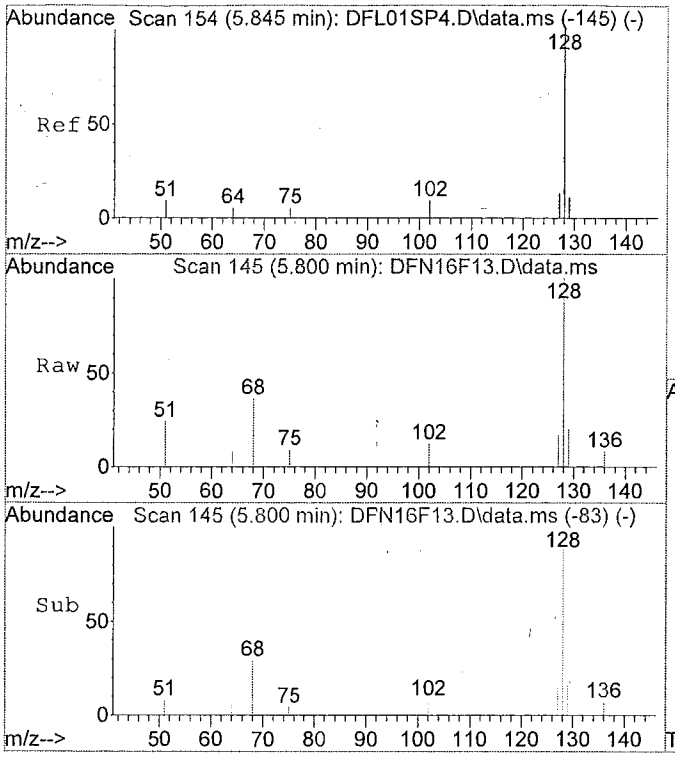
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- ☒ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

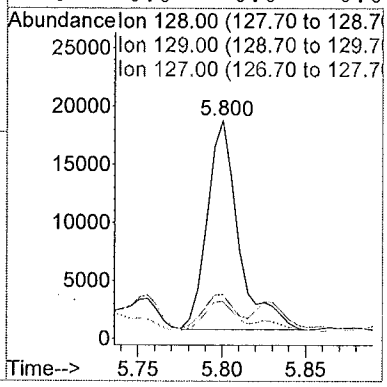
initials 7M *date* 7.18.15

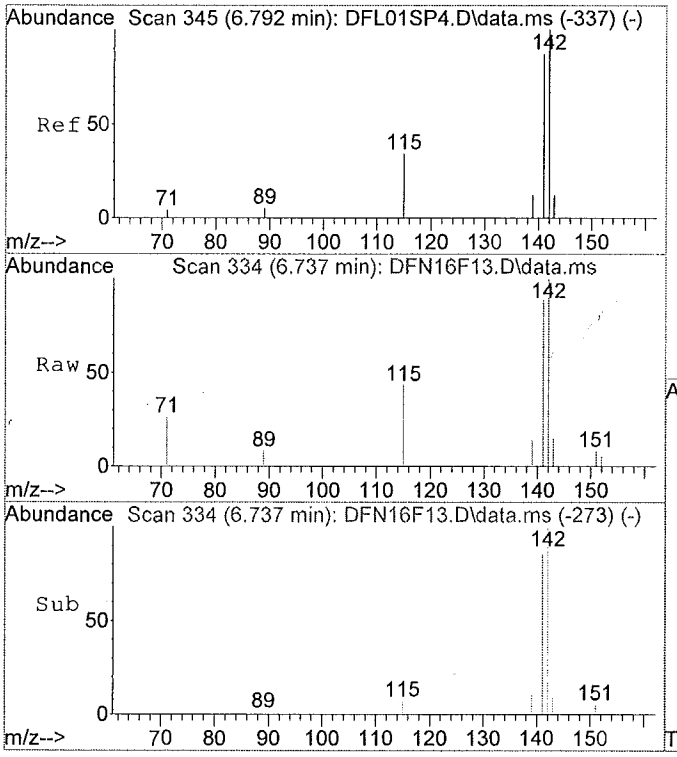


#2
Naphthalene
Concen: 0.05 ug/ml
RT: 5.80 min Scan# 145
Delta R.T. 0.00 min
Lab File: DFN16F13.D
Acq: 07/16/2015 15:49

Tgt Ion:128 Resp: 23429

Ion	Ratio	Lower	Upper
128	100		
129	17.4	0.0	0.0#
127	13.6	11.1	20.5
0	0.0	0.0	0.0

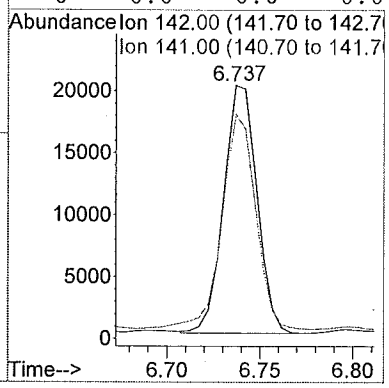


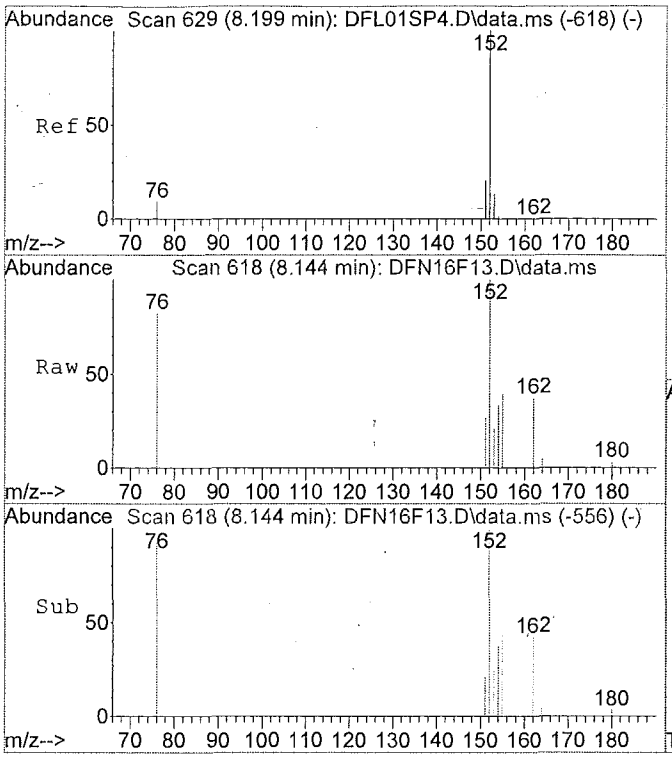


#4
2-Methylnaphthalene
Concen: 0.08 ug/ml
RT: 6.74 min Scan# 334
Delta R.T. -0.00 min
Lab File: DFN16F13.D
Acq: 07/16/2015 15:49

Tgt Ion:142 Resp: 24776

Ion	Ratio	Lower	Upper
142	100		
141	88.2	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

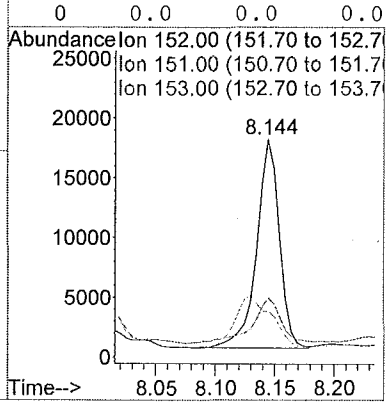


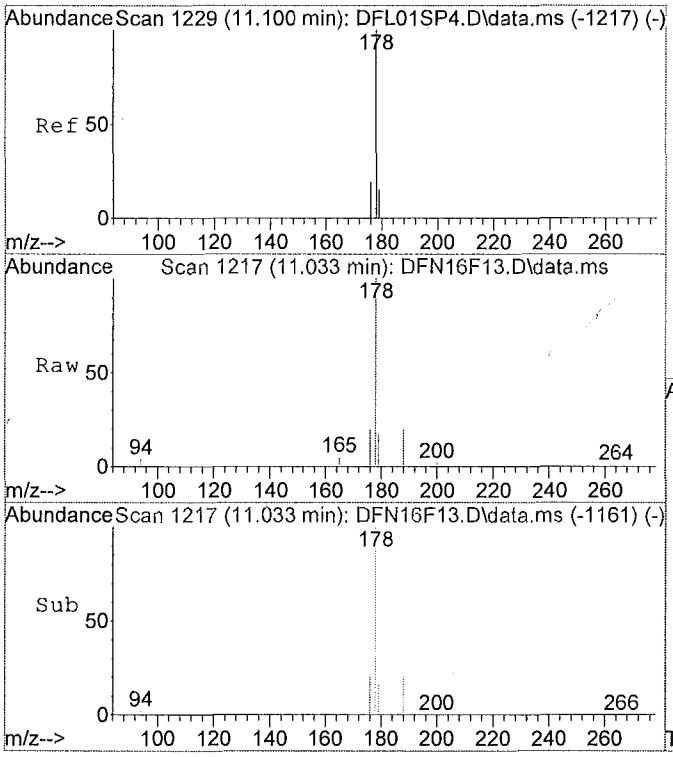


#6
Acenaphthylene
Concen: 0.04 ug/ml
RT: 8.14 min Scan# 618
Delta R.T. 0.00 min
Lab File: DFN16F13.D
Acq: 07/16/2015 15:49

Tgt Ion:152 Resp: 23468

Ion	Ratio	Lower	Upper
152	100		
151	27.4	15.5	28.7
153	42.6	8.8	16.4#
0	0.0	0.0	0.0

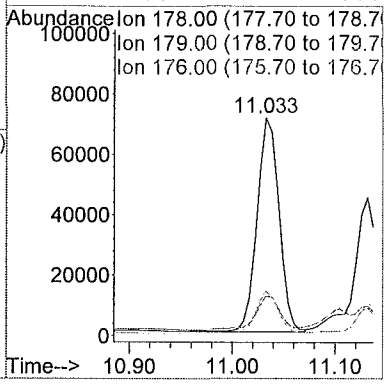


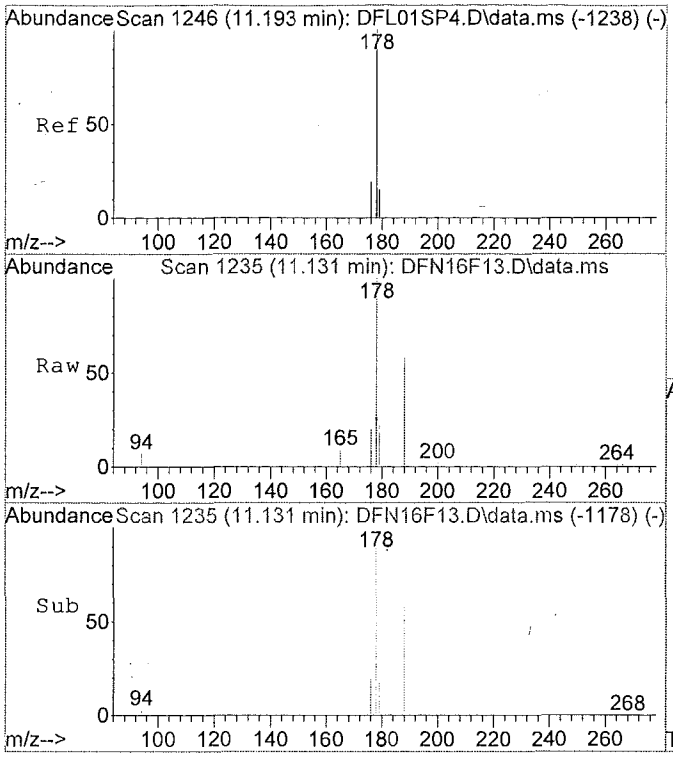


#11
Phenanthrene
Concen: 0.18 ug/ml
RT: 11.03 min Scan# 1217
Delta R.T. 0.00 min
Lab File: DFN16F13.D
Acq: 07/16/2015 15:49

Tgt Ion:178 Resp: 106387

Ion	Ratio	Lower	Upper
178	100		
179	17.2	11.1	20.5
176	20.1	14.1	26.1
0	0.0	0.0	0.0

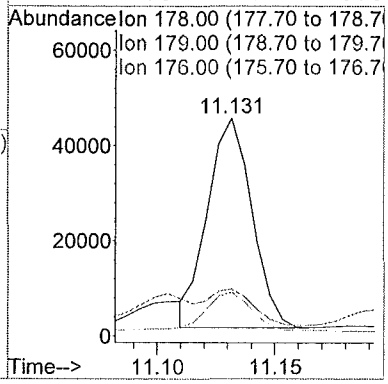


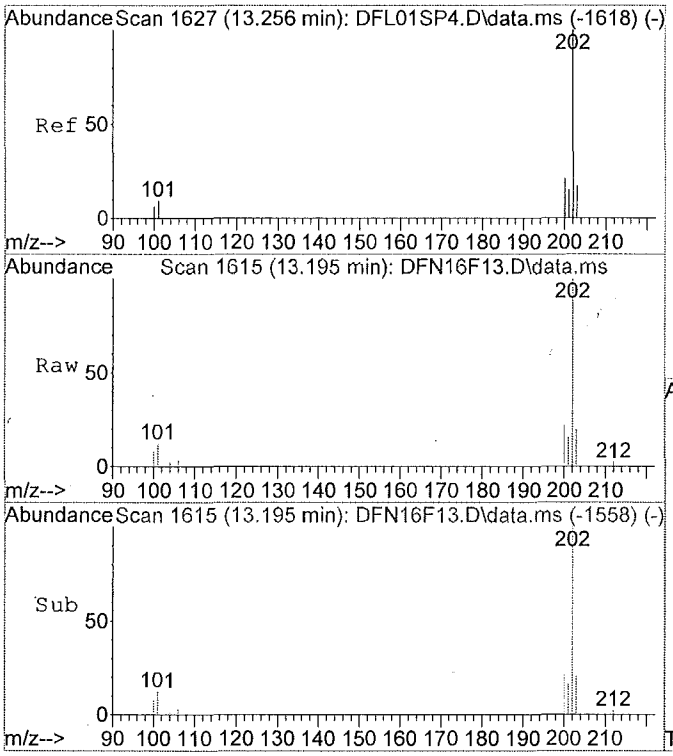


#12
Anthracene
Concen: 0.10 ug/ml m
RT: 11.13 min Scan# 1235
Delta R.T. 0.01 min
Lab File: DFN16F13.D
Acq: 07/16/2015 15:49

Tgt Ion:178 Resp: 58019

Ion	Ratio	Lower	Upper
178	100		
179	17.3	11.6	21.6
176	21.4	13.9	25.7
0	0.0	0.0	0.0

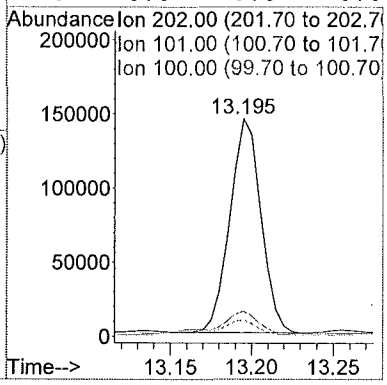


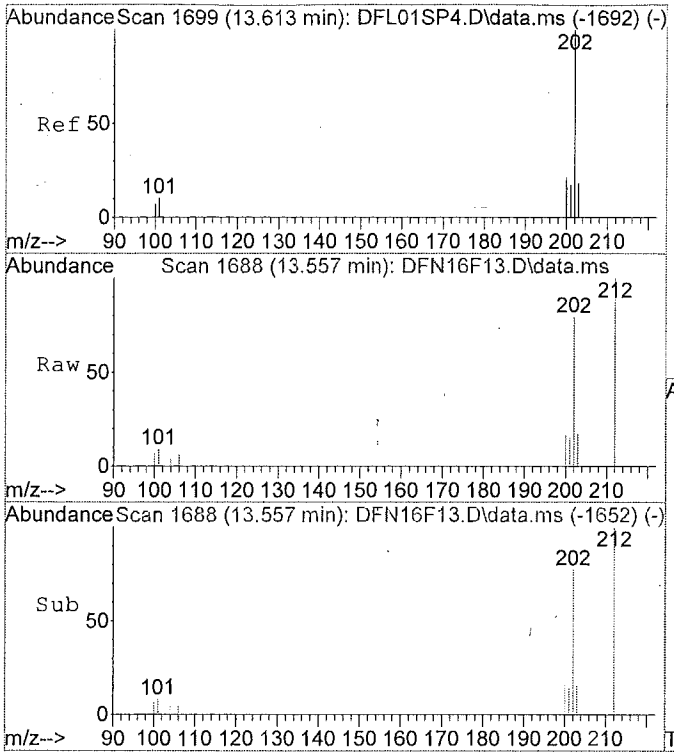


#14
Fluoranthene
Concen: 0.28 ug/ml
RT: 13.19 min Scan# 1615
Delta R.T. 0.00 min
Lab File: DFN16F13.D
Acq: 07/16/2015 15:49

Tgt Ion:202 Resp: 191670

Ion	Ratio	Lower	Upper
202	100		
101	10.3	9.4	17.6
100	6.8	0.0	0.0#
0	0.0	0.0	0.0

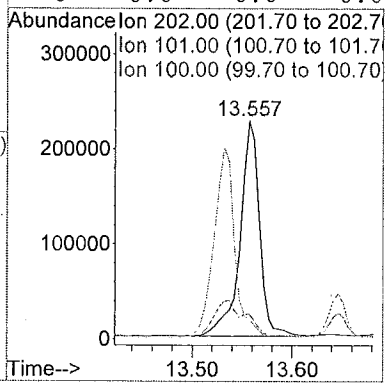


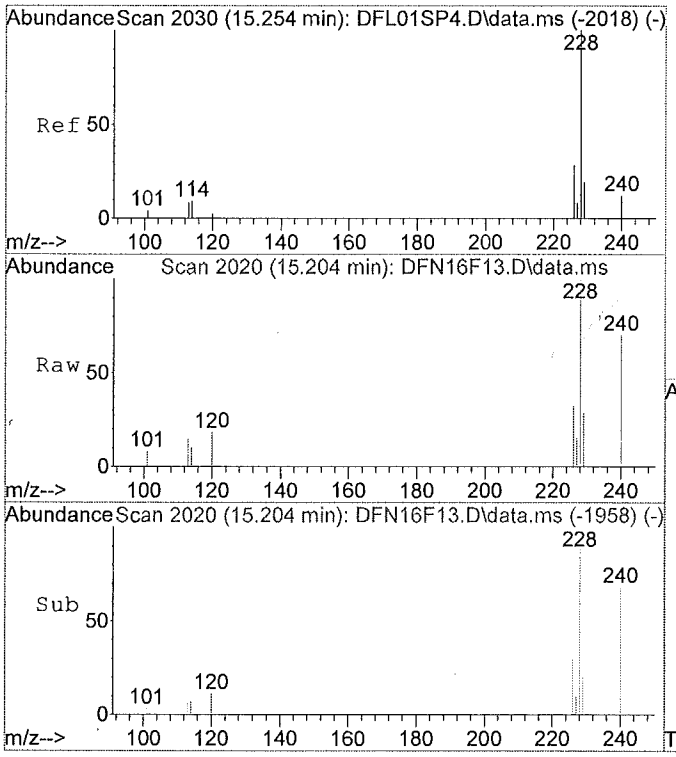


#16
Pyrene
Concen: 0.41 ug/ml
RT: 13.56 min Scan# 1688
Delta R.T. 0.01 min
Lab File: DFN16F13.D
Acq: 07/16/2015 15:49

Tgt Ion:202 Resp: 308421

Ion	Ratio	Lower	Upper
202	100		
101	27.6	10.6	19.6#
100	95.4	9.4	17.4#
0	0.0	0.0	0.0

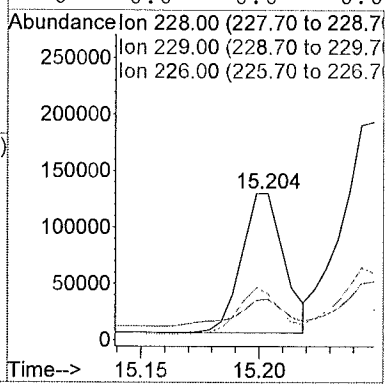


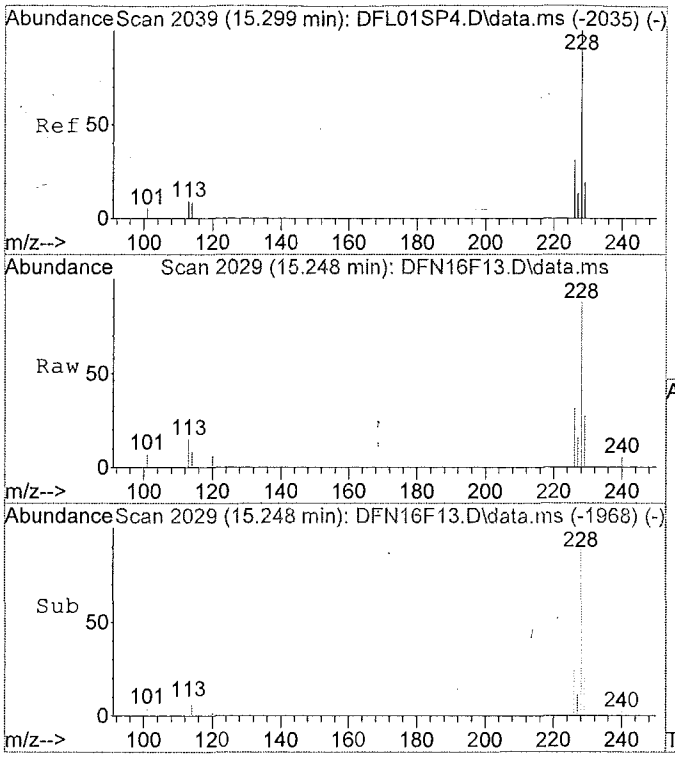


#17
Benzo(a)anthracene
Concen: 0.24 ug/ml
RT: 15.20 min Scan# 2020
Delta R.T. 0.01 min
Lab File: DFN16F13.D
Acq: 07/16/2015 15:49

Tgt Ion:228 Resp: 155459

Ion	Ratio	Lower	Upper
228	100		
229	25.1	14.5	26.9
226	32.9	18.5	34.3
0	0.0	0.0	0.0

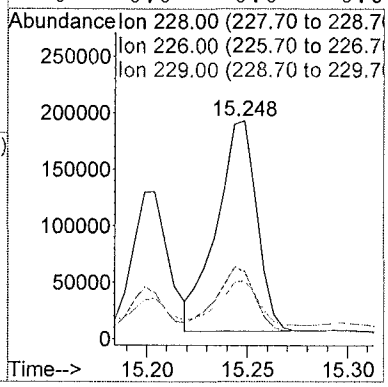


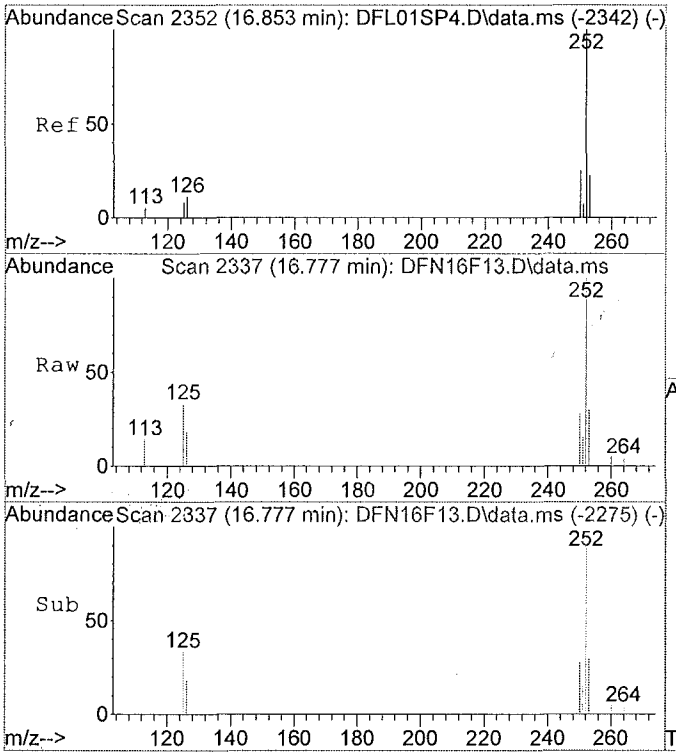


#18
Chrysene
Concen: 0.38 ug/ml
RT: 15.25 min Scan# 2029
Delta R.T. 0.00 min
Lab File: DFN16F13.D
Acq: 07/16/2015 15:49

Tgt Ion:228 Resp: 258082

Ion	Ratio	Lower	Upper
228	100		
226	29.1	19.7	36.7
229	22.3	14.5	26.9
0	0.0	0.0	0.0

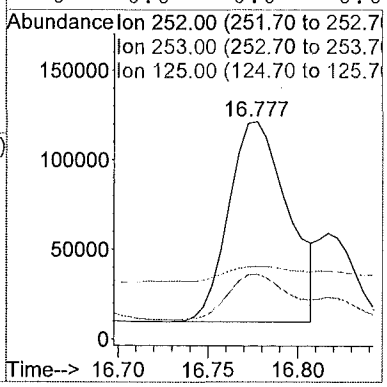


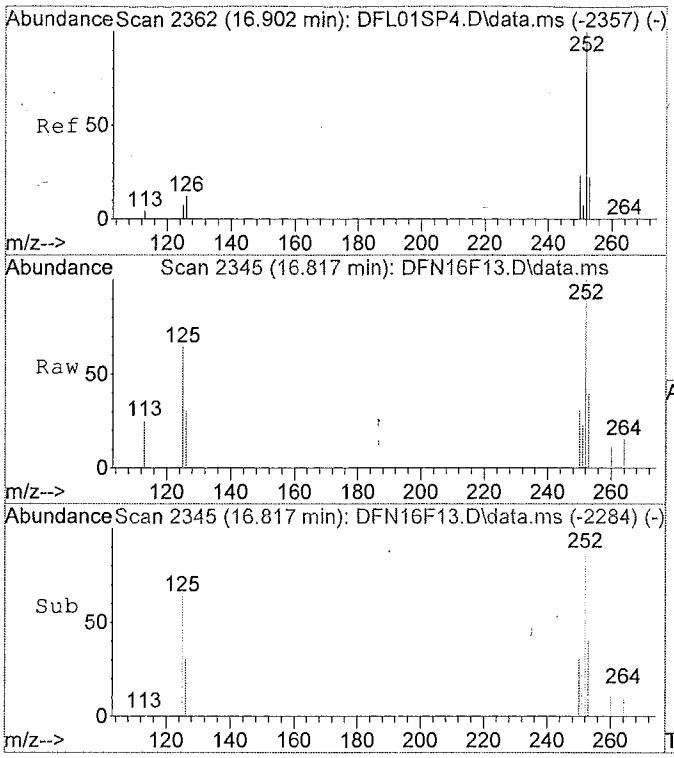


#20
Benzo(b)fluoranthene
Concen: 0.32 ug/ml
RT: 16.78 min Scan# 2337
Delta R.T. 0.01 min
Lab File: DFN16F13.D
Acq: 07/16/2015 15:49

Tgt Ion:252 Resp: 257300

Ion	Ratio	Lower	Upper
252	100		
253	23.0	15.3	28.3
125	0.0	0.0	0.0
0	0.0	0.0	0.0

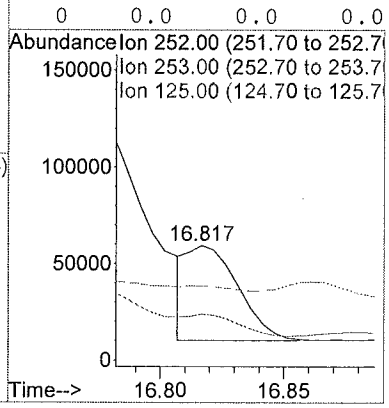


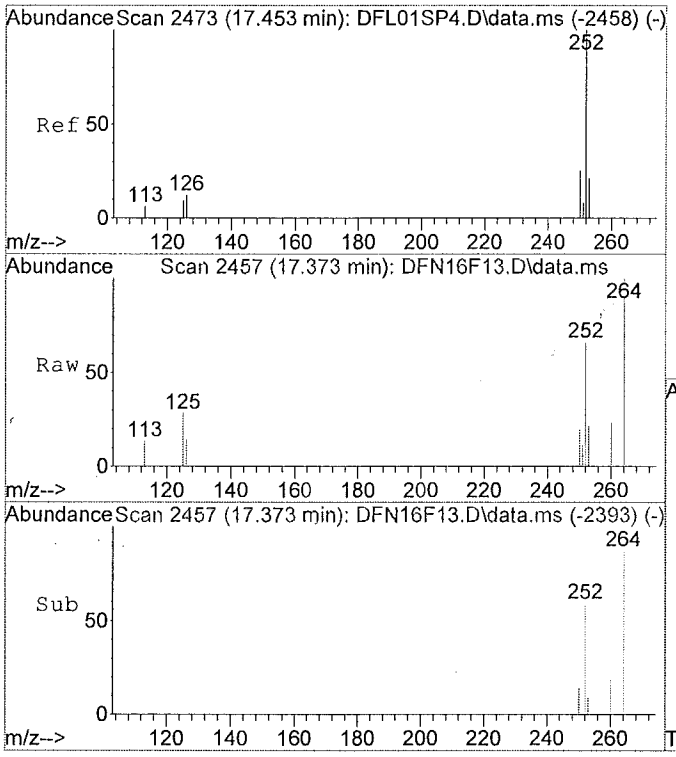


#21
Benzo(k)fluoranthene
Concen: 0.08 ug/ml m
RT: 16.82 min Scan# 2345
Delta R.T. 0.00 min
Lab File: DFN16F13.D
Acq: 07/16/2015 15:49

Tgt Ion:252 Resp: 70957

Ion	Ratio	Lower	Upper
252	100		
253	83.5	15.0	27.8#
125	0.0	0.0	0.0
0	0.0	0.0	0.0

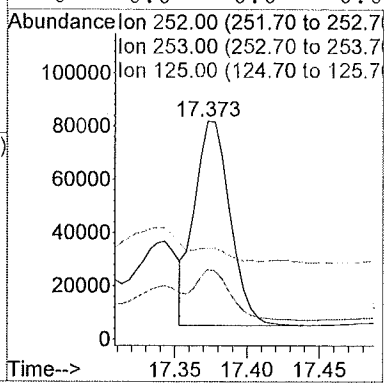


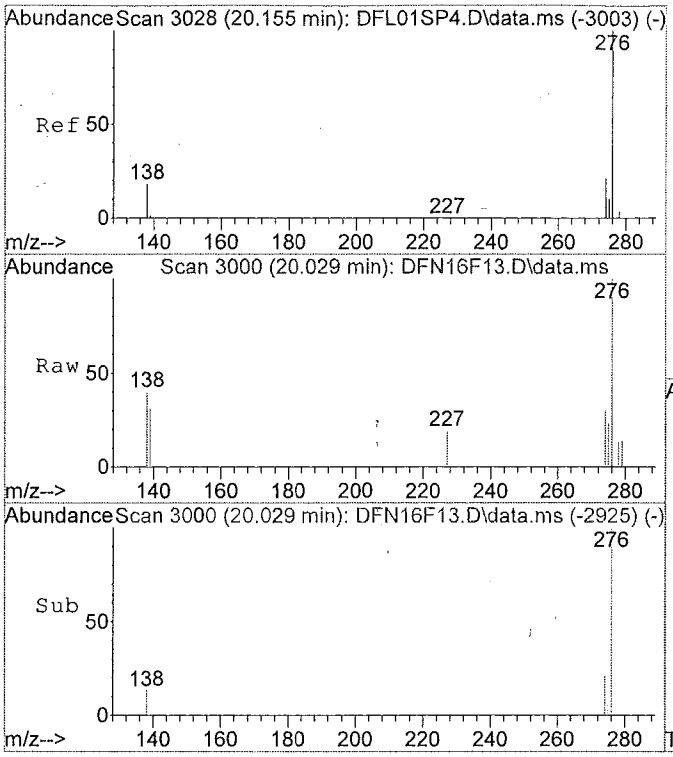


#22
Benzo(a)pyrene
Concen: 0.17 ug/ml
RT: 17.37 min Scan# 2457
Delta R.T. 0.02 min
Lab File: DFN16F13.D
Acq: 07/16/2015 15:49

Tgt Ion:252 Resp: 132722

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

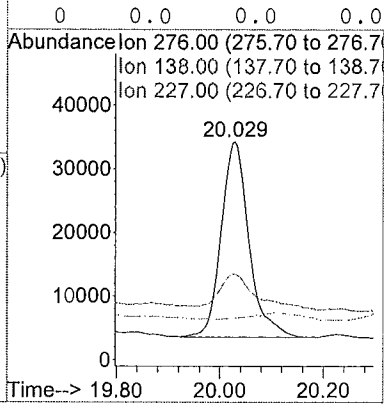


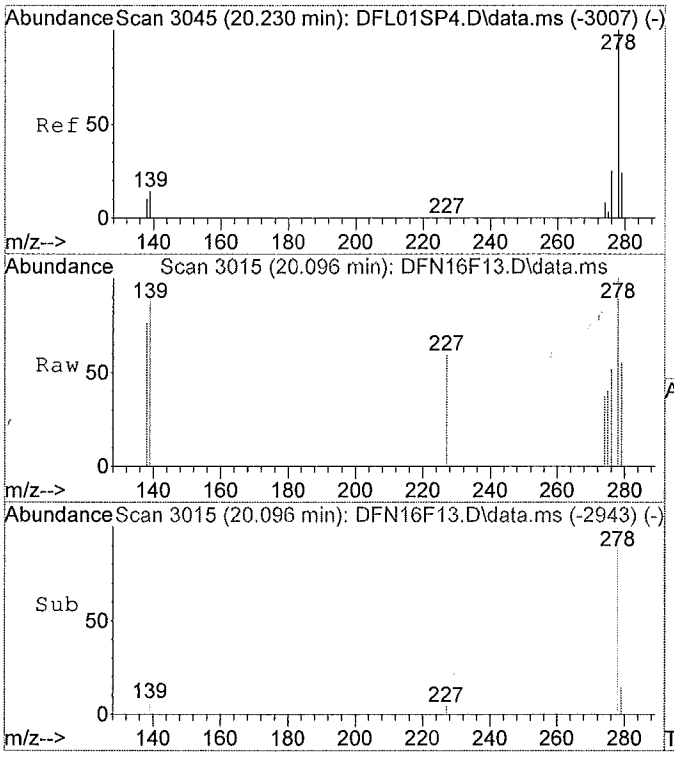


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.17 ug/ml
RT: 20.03 min Scan# 3000
Delta R.T. 0.03 min
Lab File: DFN16F13.D
Acq: 07/16/2015 15:49

Tgt Ion:276 Resp: 114049

Ion	Ratio	Lower	Upper
276	100		
138	16.7	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

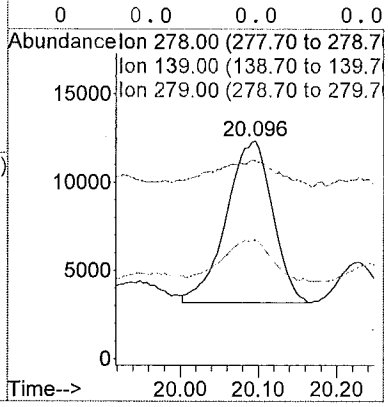


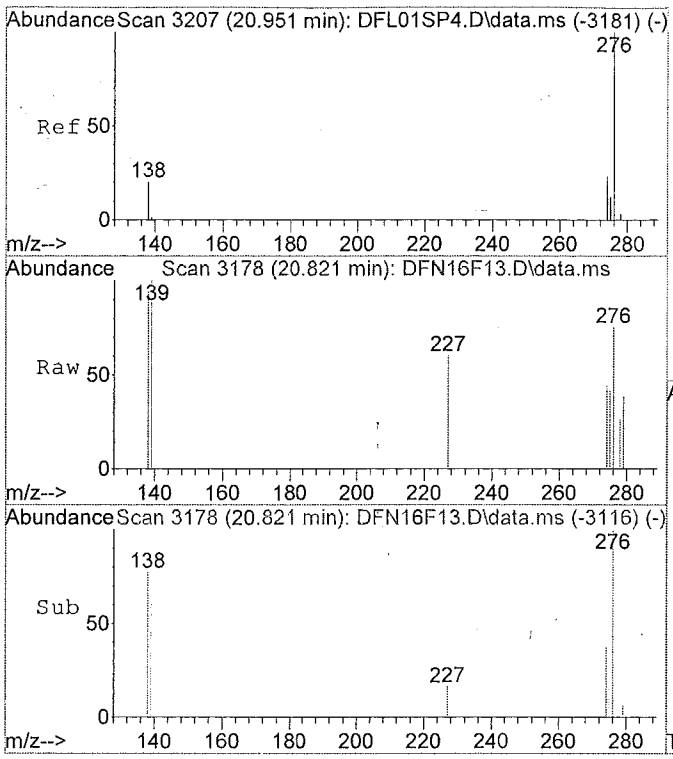


#24
Dibenzo(a,h)anthracene
Concen: 0.05 ug/ml
RT: 20.10 min Scan# 3015
Delta R.T. 0.02 min
Lab File: DFN16F13.D
Acq: 07/16/2015 15:49

Tgt Ion:278 Resp: 37801

Ion	Ratio	Lower	Upper
278	100		
139	21.9	0.0	0.0#
279	25.9	15.8	29.3
0	0.0	0.0	0.0

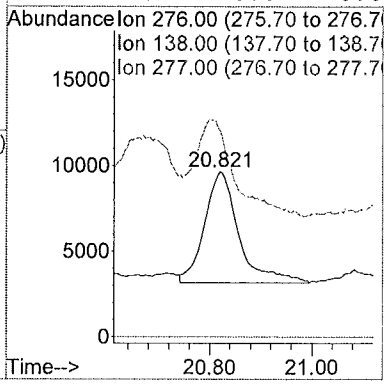




#25
Benzo(g,h,i)perylene
Concen: 0.04 ug/ml
RT: 20.82 min Scan# 3178
Delta R.T. 0.04 min
Lab File: DFN16F13.D
Acq: 07/16/2015 15:49

Tgt Ion:276 Resp: 30264

Ion	Ratio	Lower	Upper
276	100		
138	85.3	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.

F9M32

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFN17F14

Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/16/2015

GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 2.0

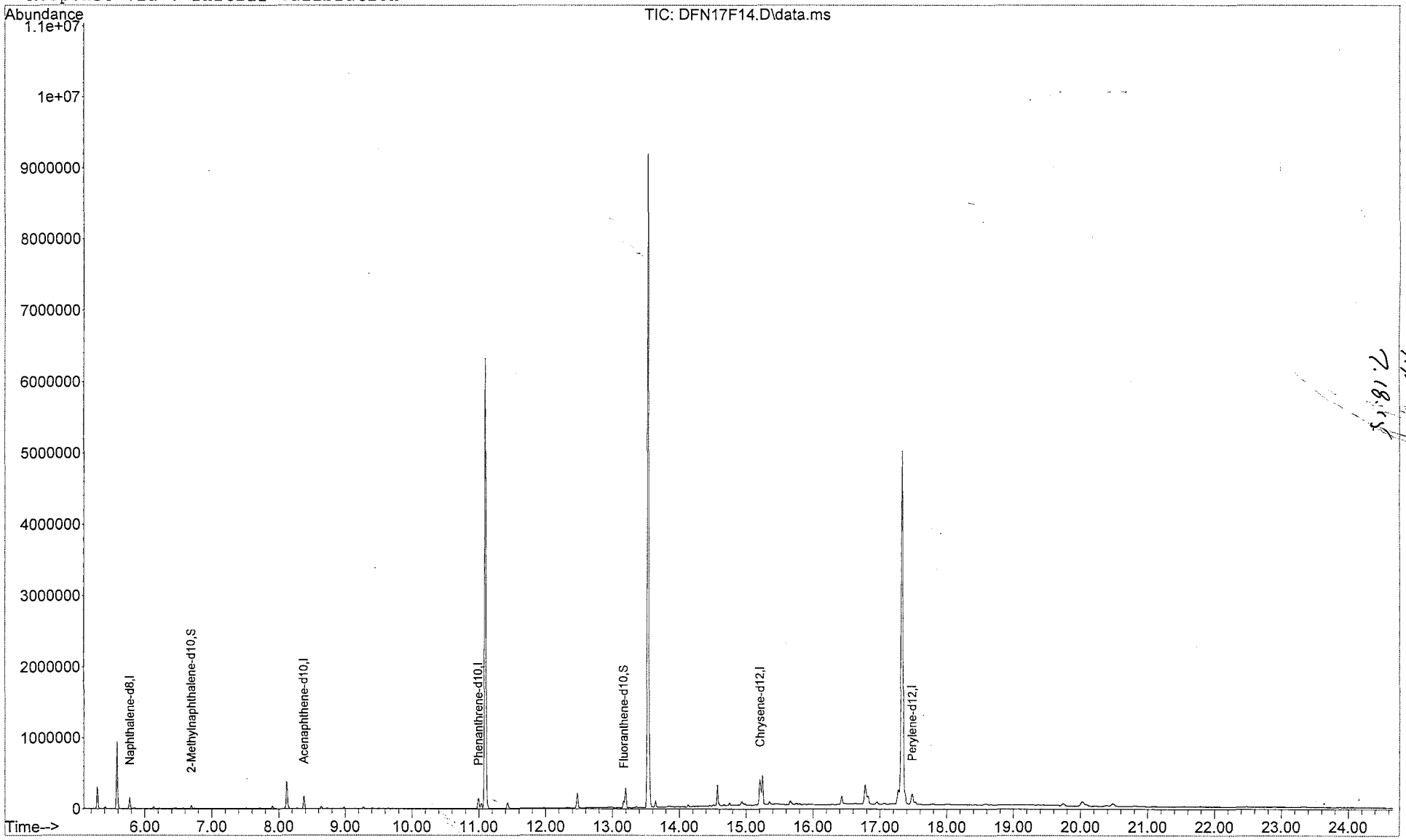
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	7.6	U
91-57-6	2-Methylnaphthalene	7.6	U
208-96-8	Acenaphthylene	4.2	J
83-32-9	Acenaphthene	7.6	U
86-73-7	Fluorene	7.6	U
87-86-5	Pentachlorophenol	15.	U
85-01-8	Phenanthrene	9.5	
120-12-7	Anthracene	7.9	
206-44-0	Fluoranthene	27.	
129-00-0	Pyrene	32.	
56-55-3	Benzo(a)anthracene	24.	
218-01-9	Chrysene	37.	
205-99-2	Benzo(b)fluoranthene	33.	
207-08-9	Benzo(k)fluoranthene	8.9	
50-32-8	Benzo(a)pyrene	17.	
193-39-5	Indeno(1,2,3-cd)pyrene	19.	
53-70-3	Dibenzo(a,h)anthracene	5.5	J
191-24-2	Benzo(g,h,i)perylene	2.9	J

Quantitation Report

Data File : R:\D\2015\JUL15\16JUL15DPM\DFN17F14.D Vial: 11
Acq On : 07/16/2015 16:19 Operator: DJC
Sample : 1515542014 F9M32 (2) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jul 18 12:32:13 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



Quantitation Report

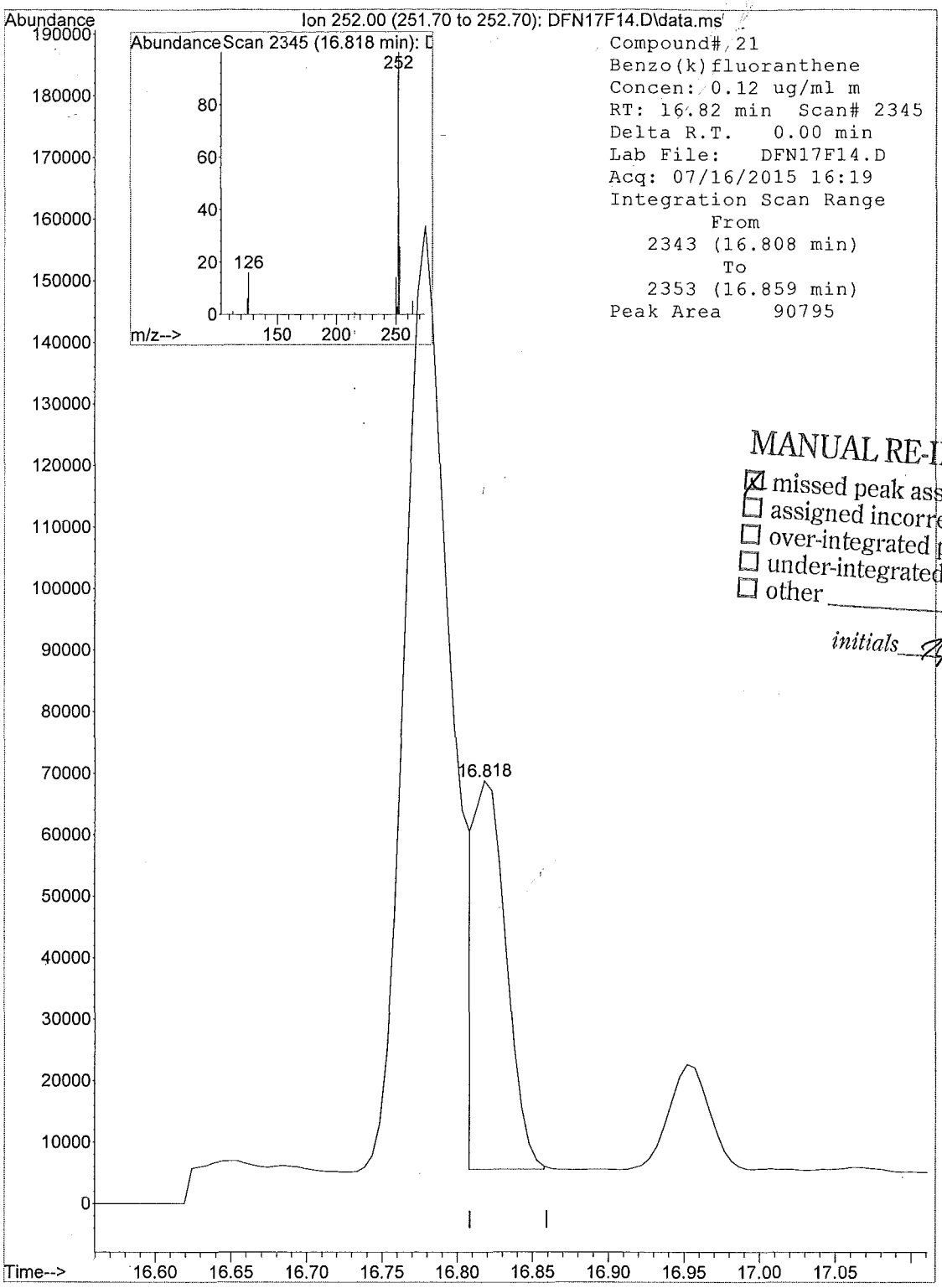
Data File : R:\D\2015\JUL15\16JUL15DPM\DFN17F14.D Vial: 11
Acq On : 07/16/2015 16:19 Operator: DJC
Sample : 1515542014 F9M32 (2) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 18 12:32:13 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.78	136	167793	0.40 ug/ml	
5) Acenaphthene-d10	8.38	164	115135	0.40 ug/ml	
9) Phenanthrene-d10	10.99	188	193808	0.40 ug/ml	
15) Chrysene-d12	15.21	240	228172	0.40 ug/ml	
19) Perylene-d12	17.48	264	244162	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.69	152	44944	0.166ug/mL	
13) Fluoranthene-d10	13.17	212	108647	0.205ug/mL	
Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	0.00	142		Not Detected	
6) Acenaphthylene	8.14	152	27377	0.054ug/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	11.03	178	68661	0.123ug/ml	98
12) Anthracene	11.13	178	55418	0.102ug/ml	97
14) Fluoranthene	13.20	202	220527	0.347ug/ml	89
16) Pyrene	13.56	202	294261	0.411ug/ml	77
17) Benzo(a)anthracene	15.20	228	188721	0.310ug/ml	88
18) Chrysene	15.24	228	311632	0.485ug/ml	94
20) Benzo(b)fluoranthene	16.78	252	324548	0.426ug/ml	99
21) Benzo(k)fluoranthene	16.82	252	90795	0.115ug/ml m	98 7.18.15
22) Benzo(a)pyrene	17.37	252	155614	0.214ug/ml	96
23) Indeno(1,2,3-c,d)pyrene	20.03	276	155398	0.244ug/ml	100
24) Dibenzo(a,h)anthracene	20.08	278	50390	0.072ug/ml	90
25) Benzo(g,h,i)perylene	20.81	276	26931	0.038ug/ml	73

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

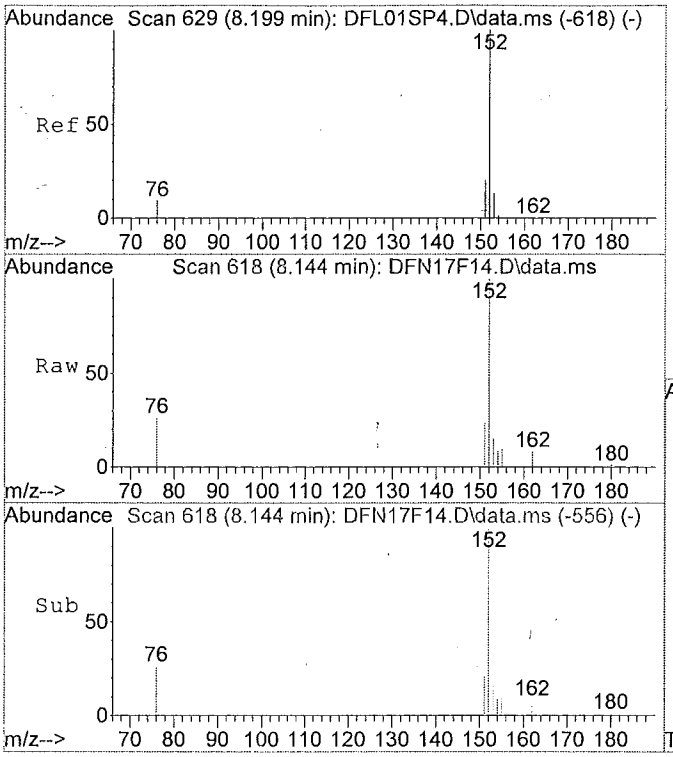
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

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

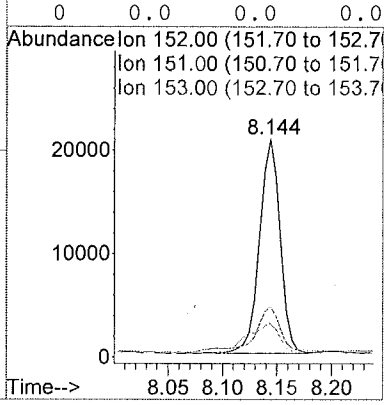
initials ZM *date* 7.18.15

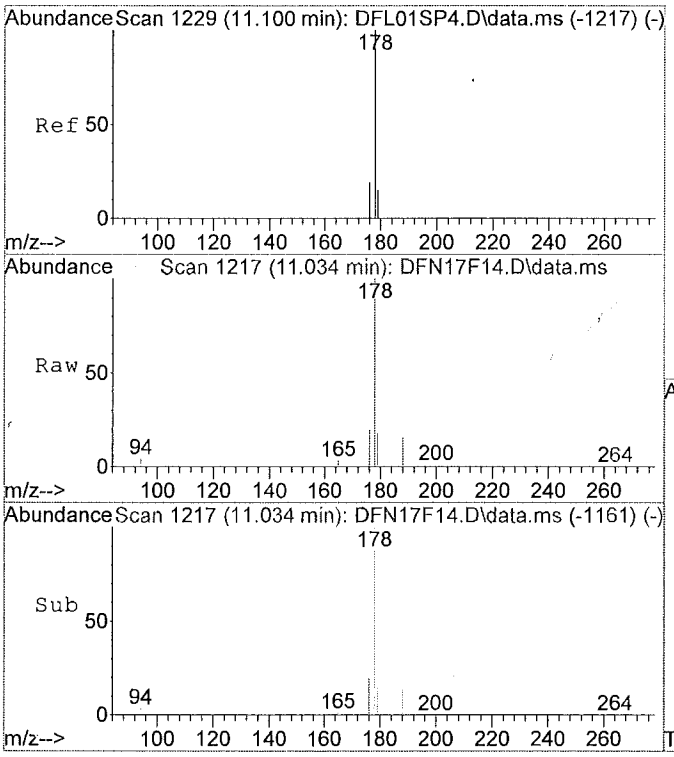


#6
Acenaphthylene
Concen: 0.05 ug/ml
RT: 8.14 min Scan# 618
Delta R.T. 0.00 min
Lab File: DFN17F14.D
Acq: 07/16/2015 16:19

Tgt Ion:152 Resp: 27377

Ion	Ratio	Lower	Upper
152	100		
151	27.7	15.5	28.7
153	22.7	8.8	16.4#
0	0.0	0.0	0.0

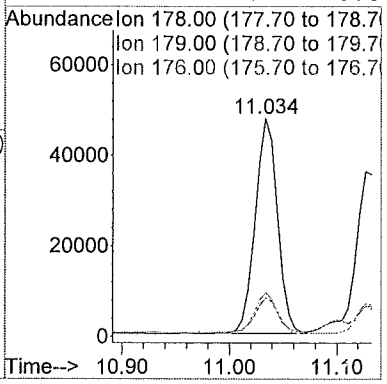


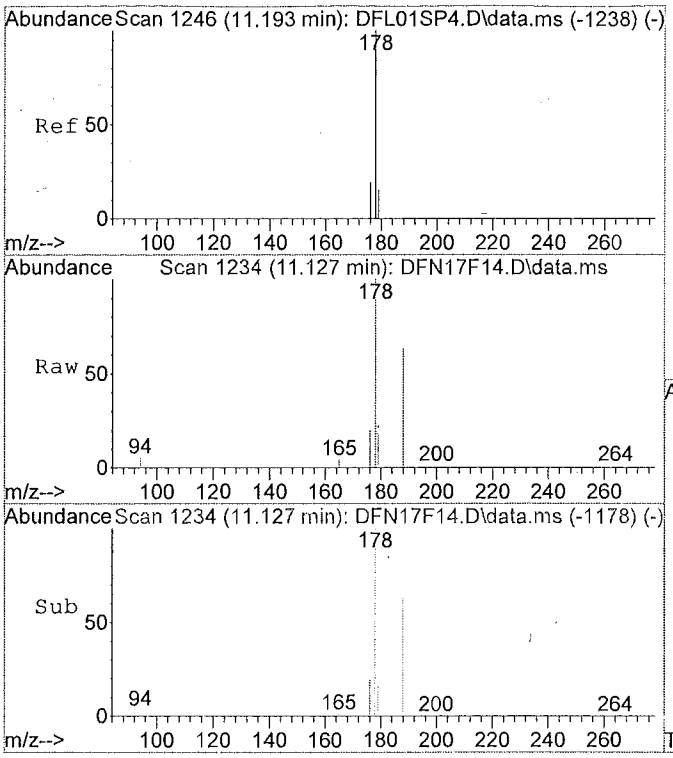


#11
Phenanthrene
Concen: 0.12 ug/ml
RT: 11.03 min Scan# 1217
Delta R.T. 0.01 min
Lab File: DFN17F14.D
Acq: 07/16/2015 16:19

Tgt Ion:178 Resp: 68661

Ion	Ratio	Lower	Upper
178	100		
179	17.1	11.1	20.5
176	19.5	14.1	26.1
0	0.0	0.0	0.0

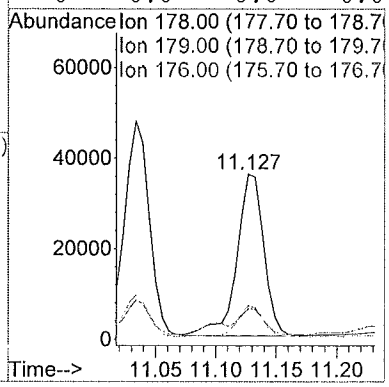


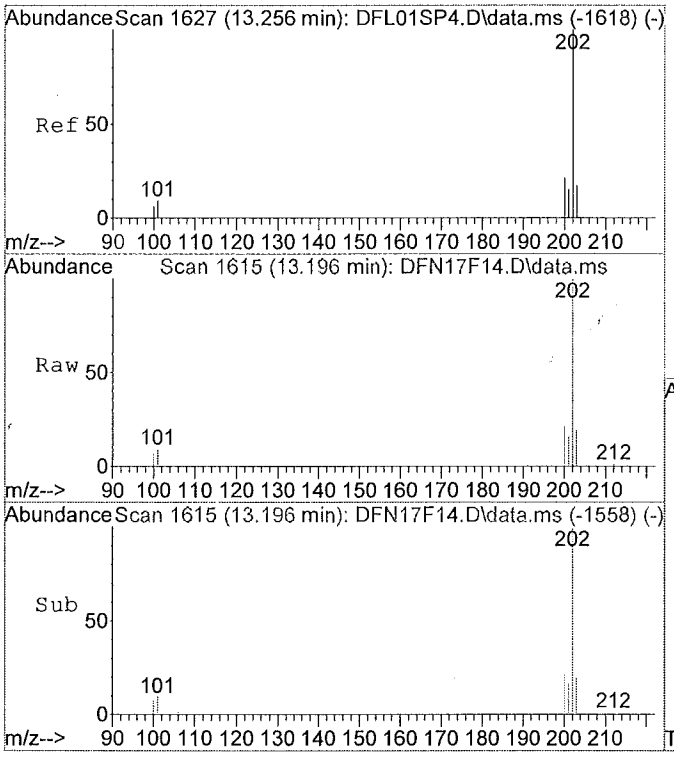


#12
Anthracene
Concen: 0.10 ug/ml
RT: 11.13 min Scan# 1234
Delta R.T. 0.01 min
Lab File: DFN17F14.D
Acq: 07/16/2015 16:19

Tgt Ion:178 Resp: 55418

Ion	Ratio	Lower	Upper
178	100		
179	14.5	11.6	21.6
176	18.9	13.9	25.7
0	0.0	0.0	0.0

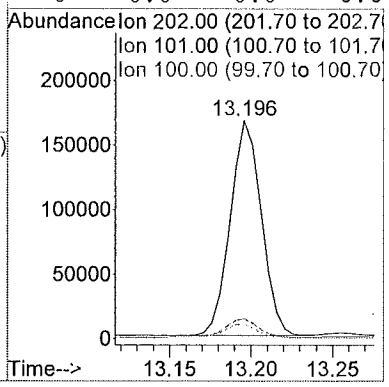


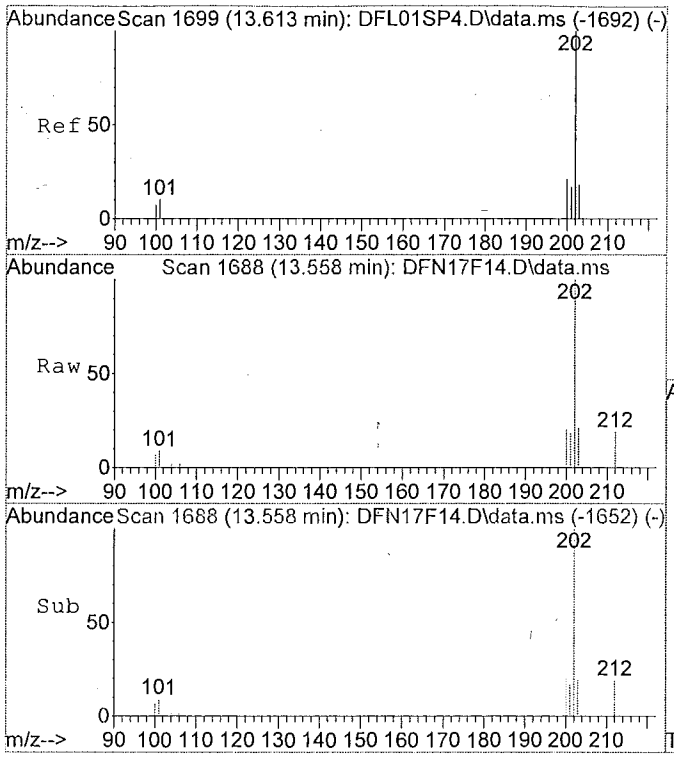


#14
Fluoranthene
Concen: 0.35 ug/ml
RT: 13.20 min Scan# 1615
Delta R.T. 0.00 min
Lab File: DFN17F14.D
Acq: 07/16/2015 16:19

Tgt Ion:202 Resp: 220527

Ion	Ratio	Lower	Upper
202	100		
101	9.2	9.4	17.6#
100	7.0	0.0	0.0#
0	0.0	0.0	0.0

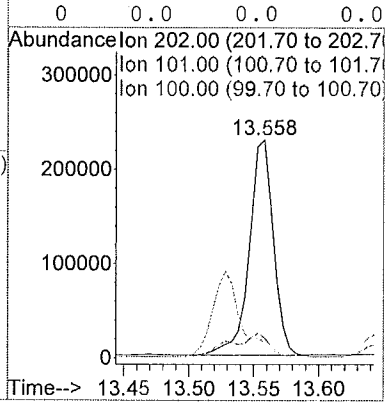


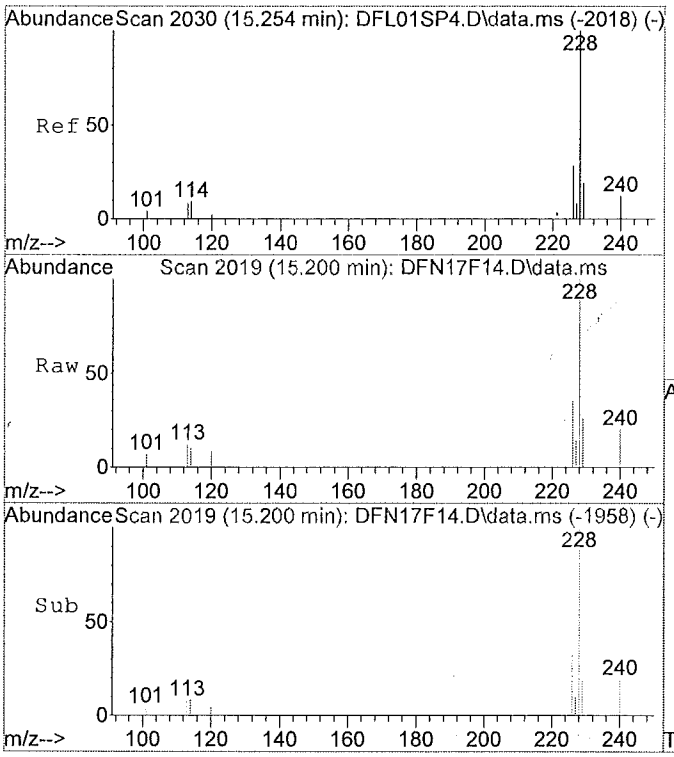


#16
Pyrene
Concen: 0.41 ug/ml
RT: 13.56 min Scan# 1688
Delta R.T. 0.01 min
Lab File: DFN17F14.D
Acq: 07/16/2015 16:19

Tgt Ion:202 Resp: 294261

Ion	Ratio	Lower	Upper
202	100		
101	9.7	10.6	19.6#
100	0.0	9.4	17.4#
0	0.0	0.0	0.0

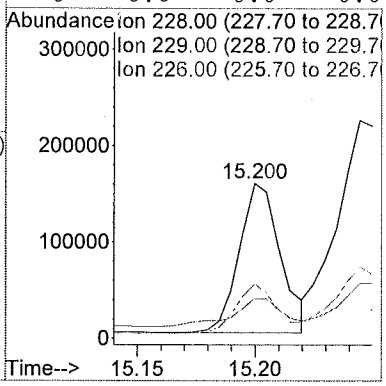


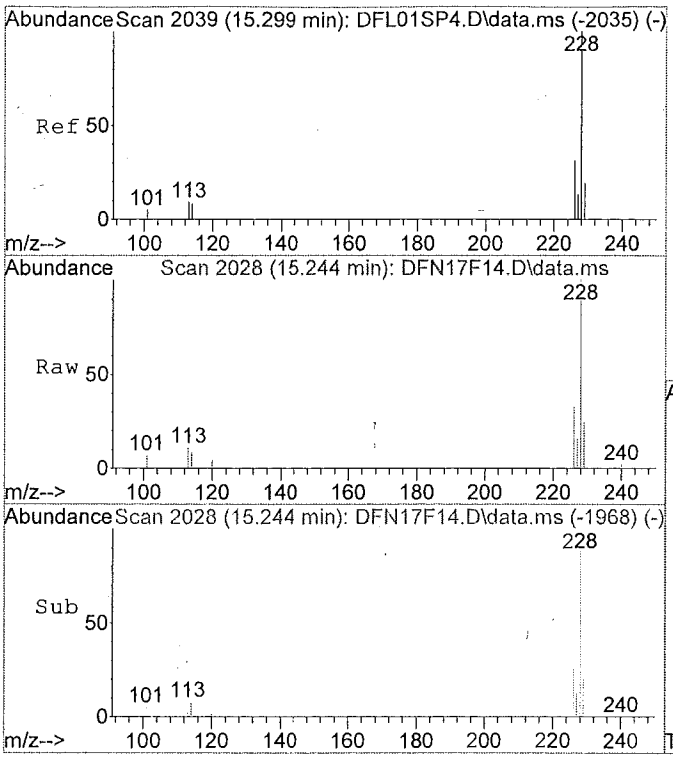


#17
Benzo(a)anthracene
Concen: 0.31 ug/ml
RT: 15.20 min Scan# 2019
Delta R.T. 0.00 min
Lab File: DFN17F14.D
Acq: 07/16/2015 16:19

Tgt Ion:228 Resp: 188721

Ion	Ratio	Lower	Upper
228	100		
229	26.1	14.5	26.9
226	33.0	18.5	34.3
0	0.0	0.0	0.0

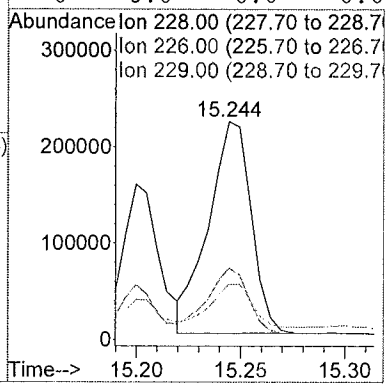


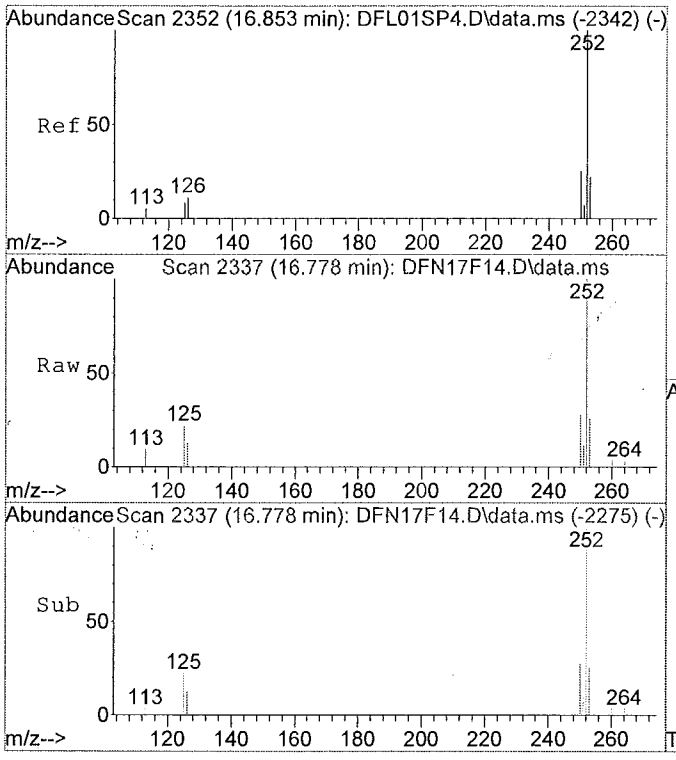


#18
Chrysene
Concen: 0.48 ug/ml
RT: 15.24 min Scan# 2028
Delta R.T. -0.00 min
Lab File: DFN17F14.D
Acq: 07/16/2015 16:19

Tgt Ion:228 Resp: 311632

Ion	Ratio	Lower	Upper
228	100		
226	31.9	19.7	36.7
229	22.6	14.5	26.9
0	0.0	0.0	0.0

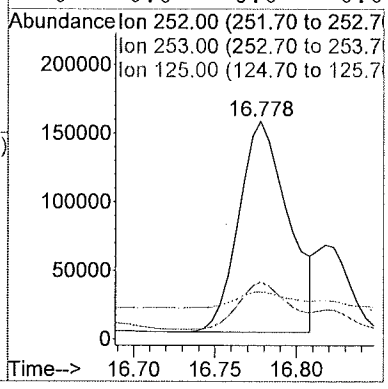


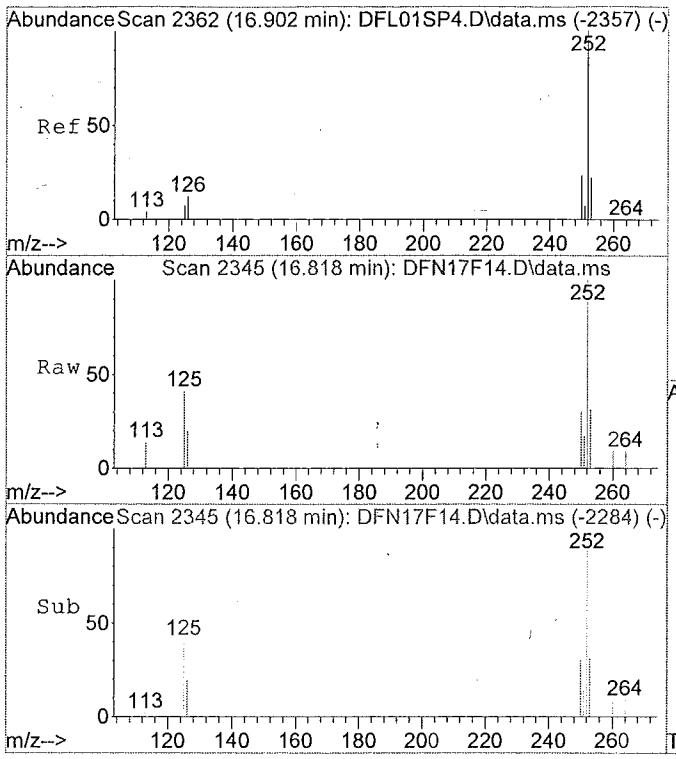


#20
Benzo(b)fluoranthene
Concen: 0.43 ug/ml
RT: 16.78 min Scan# 2337
Delta R.T. 0.01 min
Lab File: DFN17F14.D
Acq: 07/16/2015 16:19

Tgt Ion:252 Resp: 324548

Ion	Ratio	Lower	Upper
252	100		
253	22.3	15.3	28.3
125	6.0	0.0	0.0#
0	0.0	0.0	0.0

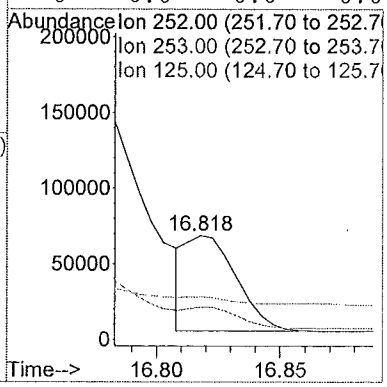


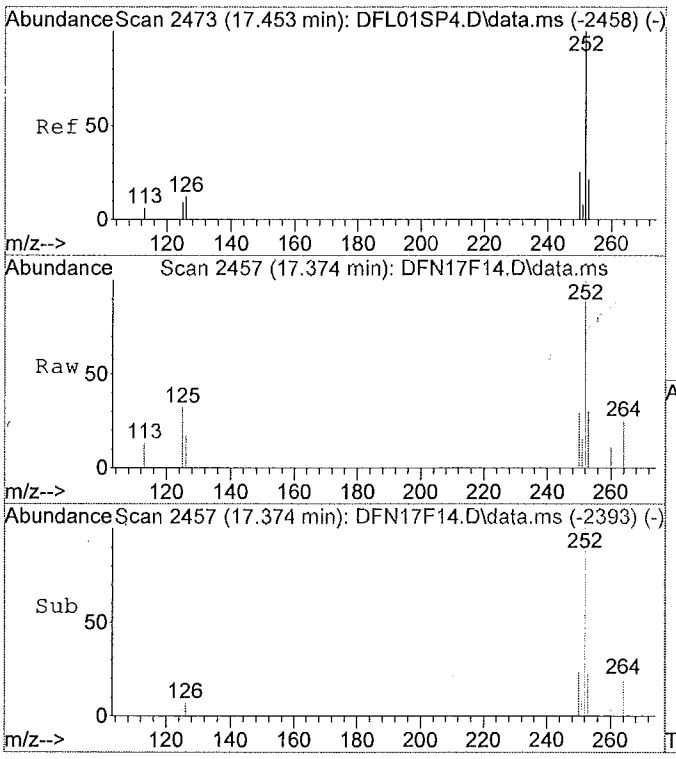


#21
Benzo(k)fluoranthene
Concen: 0.12 ug/ml m
RT: 16.82 min Scan# 2345
Delta R.T. 0.00 min
Lab File: DFN17F14.D
Acq: 07/16/2015 16:19

Tgt Ion:252 Resp: 90795

Ion	Ratio	Lower	Upper
252	100		
253	79.5	15.0	27.8#
125	21.6	0.0	0.0#
0	0.0	0.0	0.0

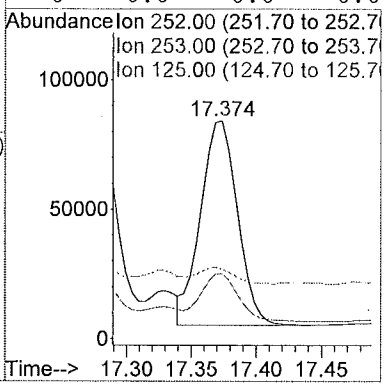


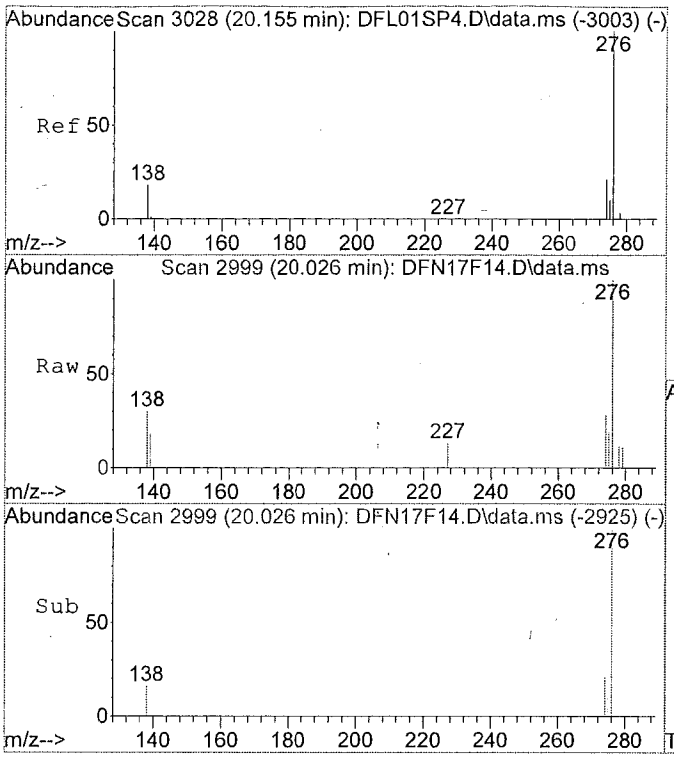


#22
Benzo(a)pyrene
Concen: 0.21 ug/ml
RT: 17.37 min Scan# 2457
Delta R.T. 0.02 min
Lab File: DFN17F14.D
Acq: 07/16/2015 16:19

Tgt Ion:252 Resp: 155614

Ion	Ratio	Lower	Upper
252	100		
253	23.4	15.0	27.8
125	8.1	0.0	0.0#
0	0.0	0.0	0.0

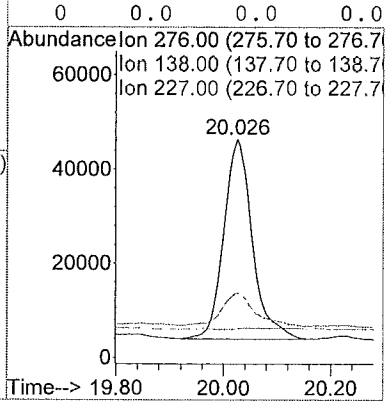


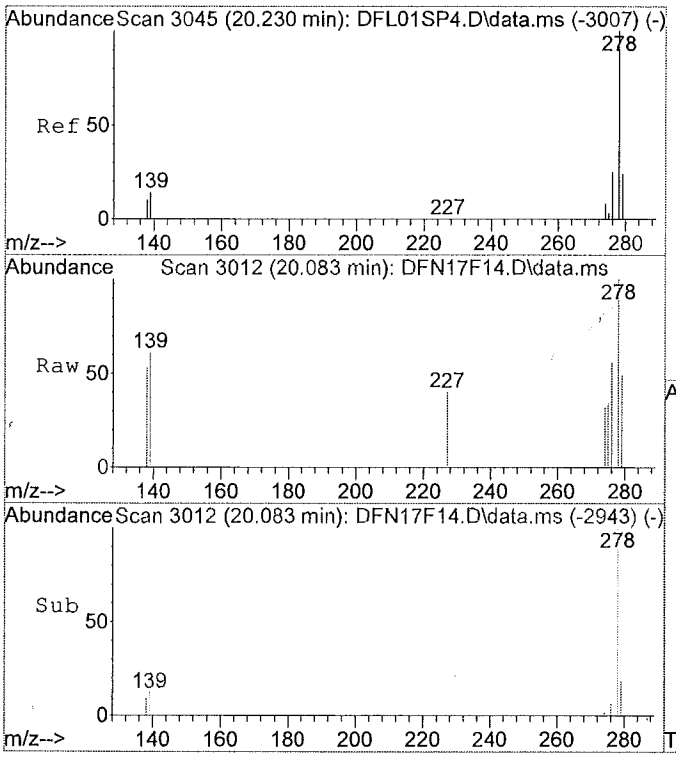


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.24 ug/ml
RT: 20.03 min Scan# 2999
Delta R.T. 0.03 min
Lab File: DFN17F14.D
Acq: 07/16/2015 16:19

Tgt Ion:276 Resp: 155398

Ion	Ratio	Lower	Upper
276	100		
138	19.7	0.0	0.0#
227	0.6	0.0	0.0#
0	0.0	0.0	0.0

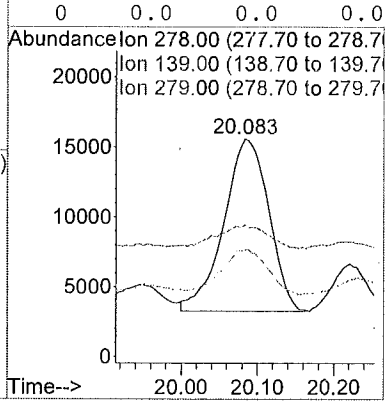


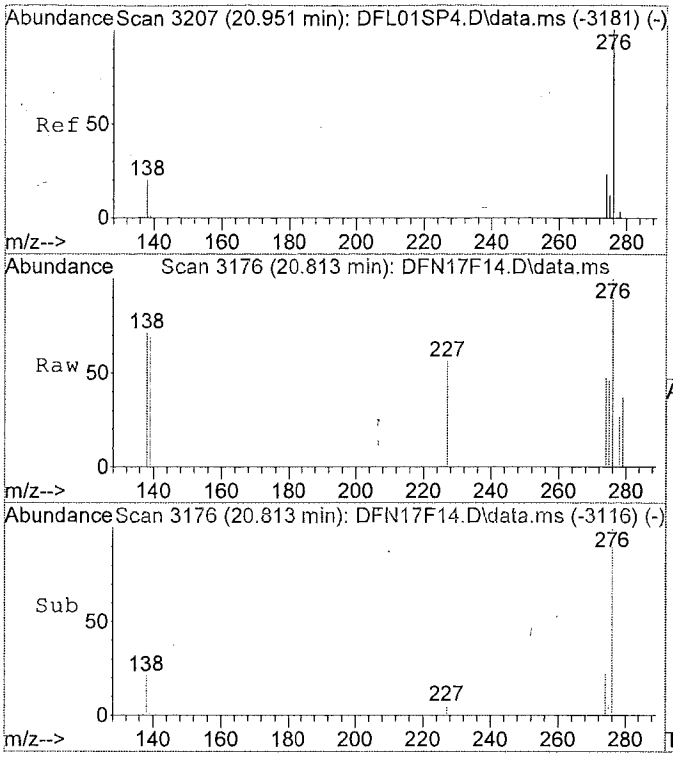


#24
Dibenzo(a,h)anthracene
Concen: 0.07 ug/ml
RT: 20.08 min Scan# 3012
Delta R.T. 0.01 min
Lab File: DFN17F14.D
Acq: 07/16/2015 16:19

Tgt Ion:278 Resp: 50390

Ion	Ratio	Lower	Upper
278	100		
139	14.9	0.0	0.0#
279	27.2	15.8	29.3
0	0.0	0.0	0.0

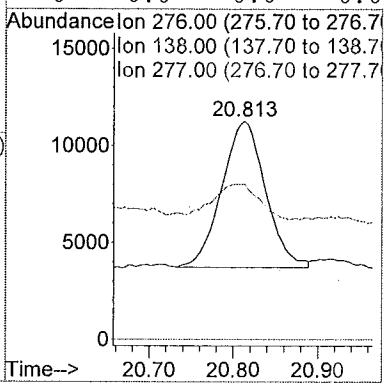




#25
Benzo(g,h,i)perylene
Concen: 0.04 ug/ml
RT: 20.81 min Scan# 3176
Delta R.T. 0.04 min
Lab File: DFN17F14.D
Acq: 07/16/2015 16:19

Tgt Ion:276 Resp: 26931

Ion	Ratio	Lower	Upper
276	100		
138	25.8	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.

F9M33

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DFN18F15

Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/16/2015

GPC Cleanup: (Y/N) Y pH: 8.1 Dilution Factor: 1.0

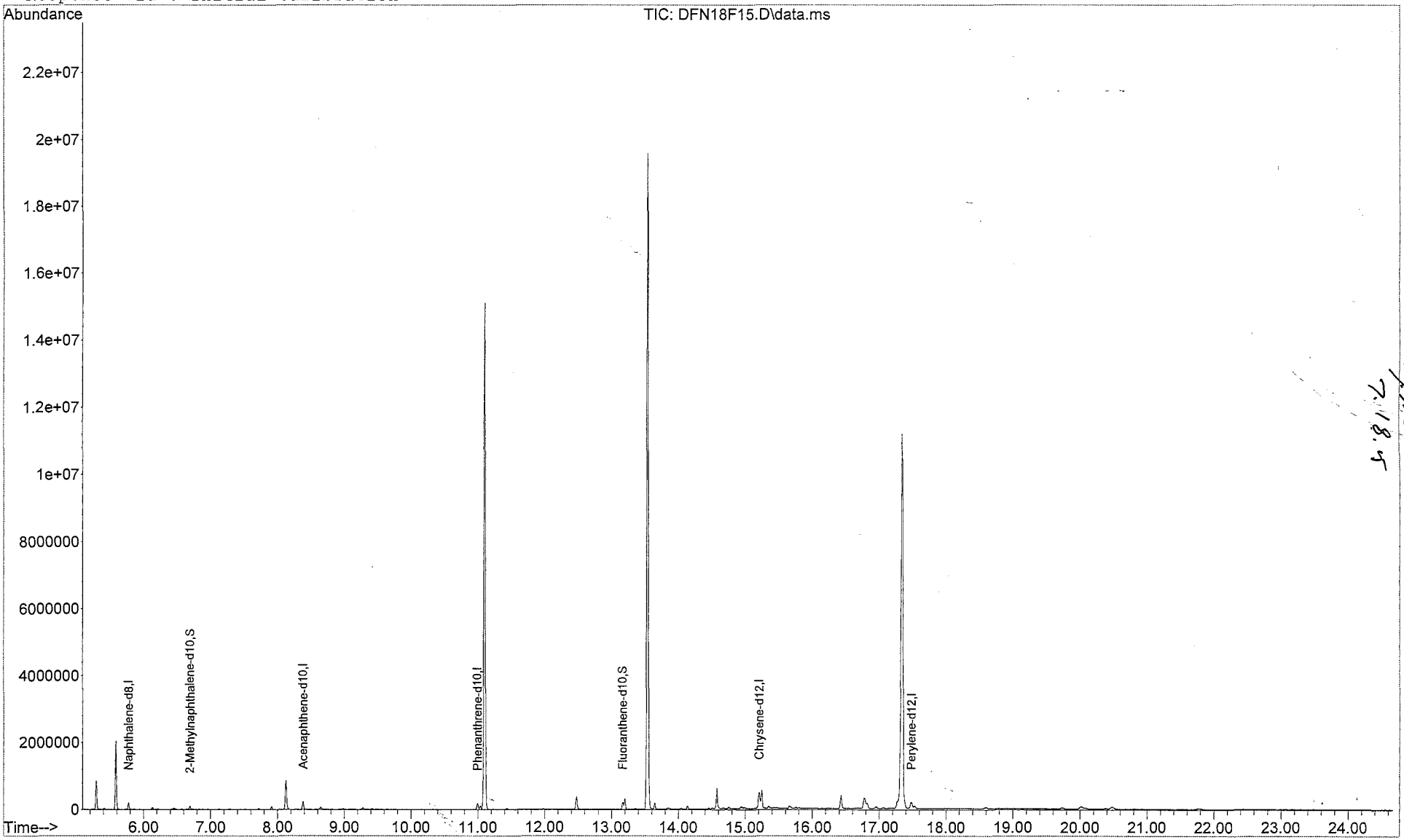
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.7	U
91-57-6	2-Methylnaphthalene	3.7	U
208-96-8	Acenaphthylene	3.0	J
83-32-9	Acenaphthene	3.7	U
86-73-7	Fluorene	3.7	U
87-86-5	Pentachlorophenol	7.5	U
85-01-8	Phenanthrene	5.5	
120-12-7	Anthracene	3.9	
206-44-0	Fluoranthene	12.	
129-00-0	Pyrene	15.	
56-55-3	Benzo(a)anthracene	13.	
218-01-9	Chrysene	18.	
205-99-2	Benzo(b)fluoranthene	16.	
207-08-9	Benzo(k)fluoranthene	4.4	
50-32-8	Benzo(a)pyrene	8.4	
193-39-5	Indeno(1,2,3-cd)pyrene	8.4	
53-70-3	Dibenzo(a,h)anthracene	2.5	J
191-24-2	Benzo(g,h,i)perylene	3.7	U

Quantitation Report

Data File : R:\D\2015\JUL15\16JUL15DPM\DFN18F15.D Vial: 12
Acq On : 07/16/2015 16:49 Operator: DJC
Sample : 1515542015 F9M33 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jul 18 12:32:58 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



7.18.15

DFN18F15.D DSOM_SIMJ2.M Sat Jul 18 12:38:52 2015 Page 2

Quantitation Report

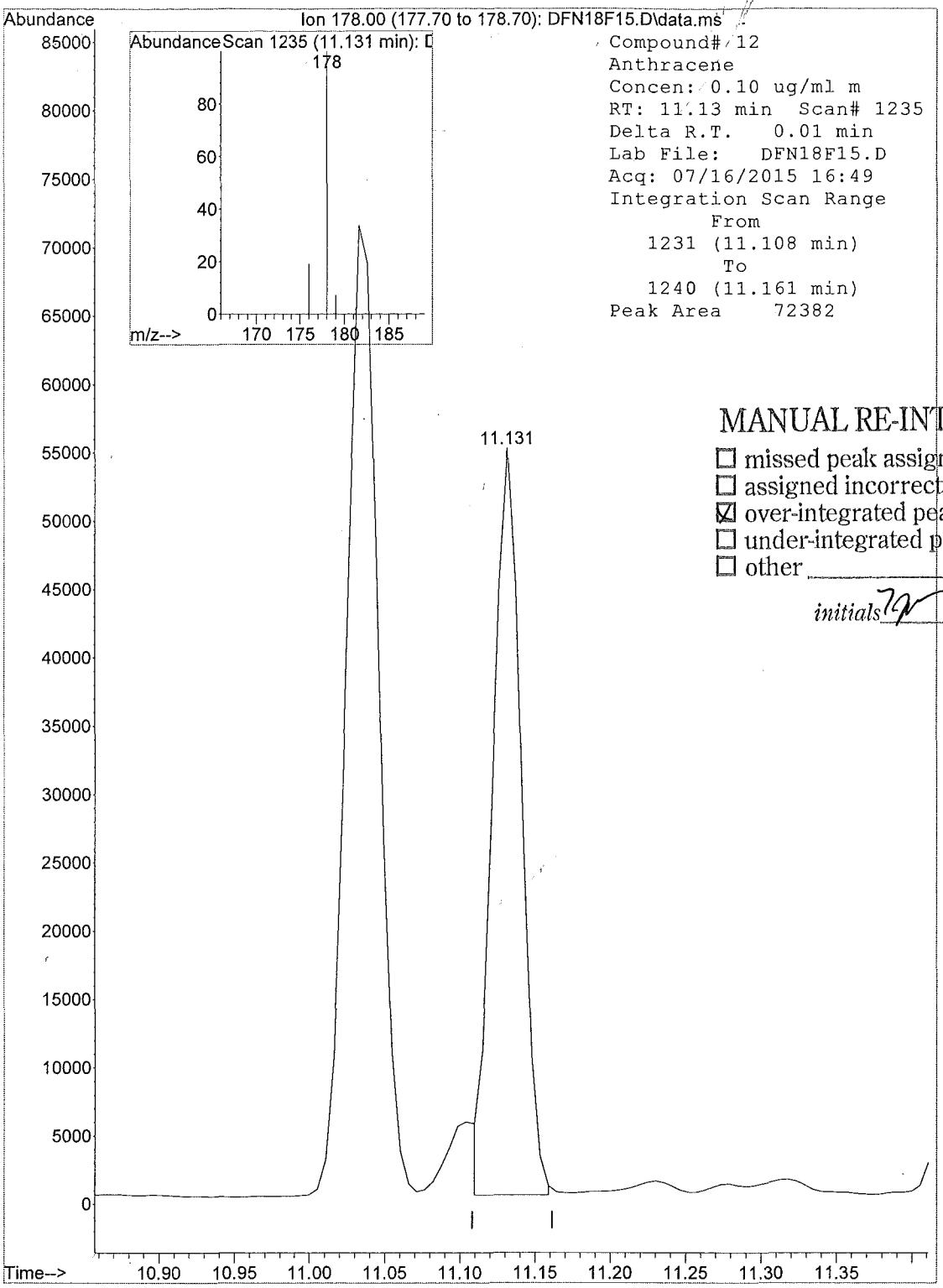
Data File : R:\D\2015\JUL15\16JUL15DPM\DFN18F15.D Vial: 12
Acq On : 07/16/2015 16:49 Operator: DJC
Sample : 1515542015 F9M33 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 18 12:32:58 2015 Results File: DSOM_SIMJ2.RES

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	212983	0.40 ug/ml		
5) Acenaphthene-d10	8.38	164	153562	0.40 ug/ml		
9) Phenanthrene-d10	10.99	188	248666	0.40 ug/ml		
15) Chrysene-d12	15.21	240	283486	0.40 ug/ml		
19) Perylene-d12	17.48	264	302827	0.40 ug/ml		
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	6.69	152	103858	0.302ug/mL		
13) Fluoranthene-d10	13.17	212	244528	0.360ug/mL		
Target Compounds					Qvalue	
2) Naphthalene	0.00	128		Not Detected		
4) 2-Methylnaphthalene	0.00	142		Not Detected		
6) Acenaphthylene	8.14	152	54218	0.081ug/ml	91	
7) Acenaphthene	0.00	153		Not Detected		
8) Fluorene	0.00	166		Not Detected		
10) Pentachlorophenol	0.00	266		Not Detected		
11) Phenanthrene	11.03	178	105897	0.148ug/ml	99	
12) Anthracene	11.13	178	72382	0.104ug/ml m	95	7.18.15
14) Fluoranthene	13.19	202	252079	0.309ug/ml	90	
16) Pyrene	13.56	202	352573	0.396ug/ml	12	
17) Benzo(a)anthracene	15.20	228	258686	0.342ug/ml	89	
18) Chrysene	15.25	228	394212	0.494ug/ml	94	
20) Benzo(b)fluoranthene	16.78	252	397627	0.421ug/ml	99	
21) Benzo(k)fluoranthene	16.82	252	116310	0.119ug/ml m	98	7.18.15
22) Benzo(a)pyrene	17.37	252	202465	0.225ug/ml	96	
23) Indeno(1,2,3-c,d)pyrene	20.02	276	176513	0.224ug/ml	100	
24) Dibenzo(a,h)anthracene	20.08	278	58150	0.067ug/ml	95	
25) Benzo(g,h,i)perylene	0.00	276		Not Detected		

(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



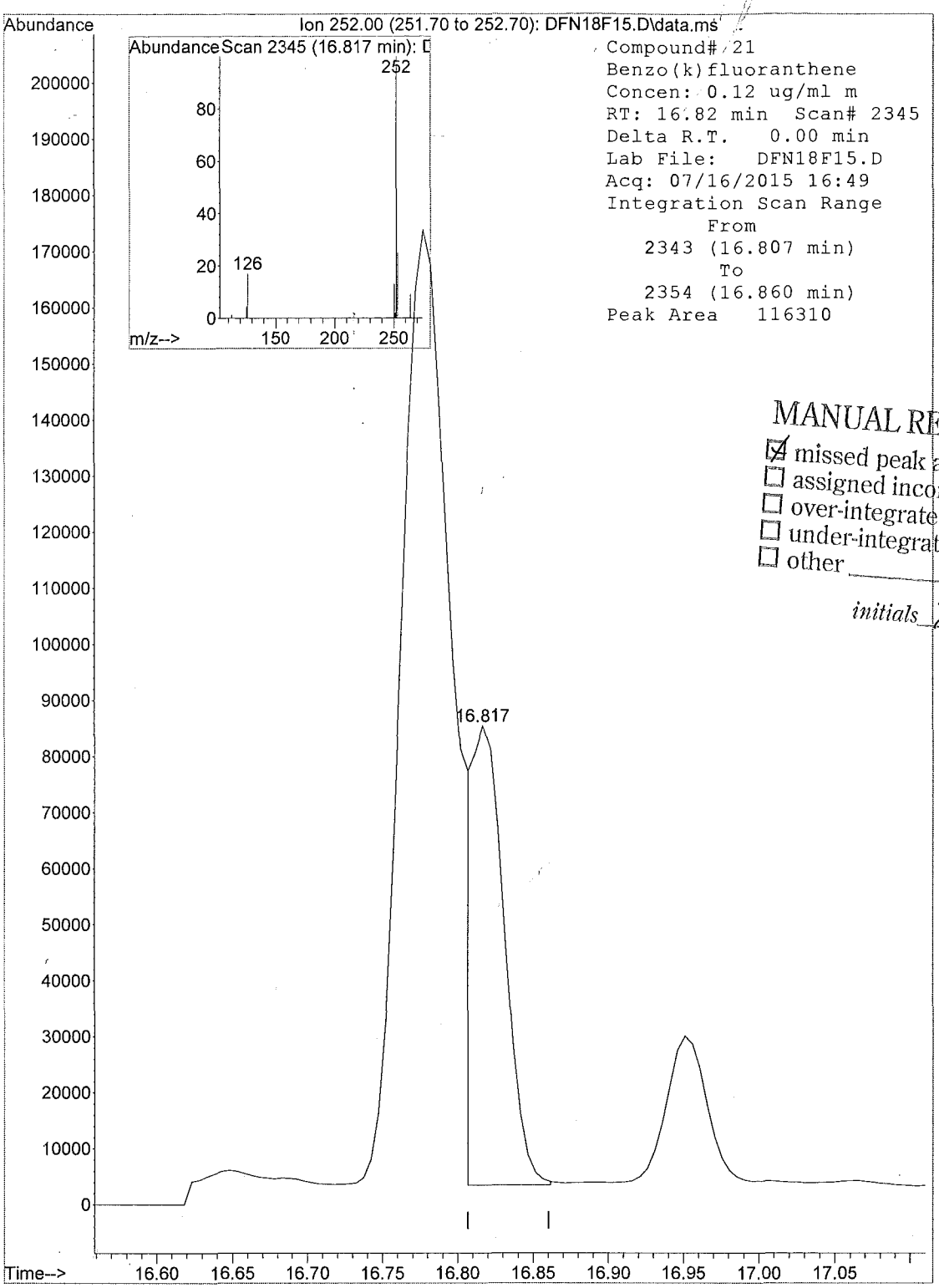
MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☒ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials TP *date* 7.18.15

DSOM_SIMJ2.M 5975-D DSOM_SIMJ2.M 1515542015 F9M33 . SOIL SIM

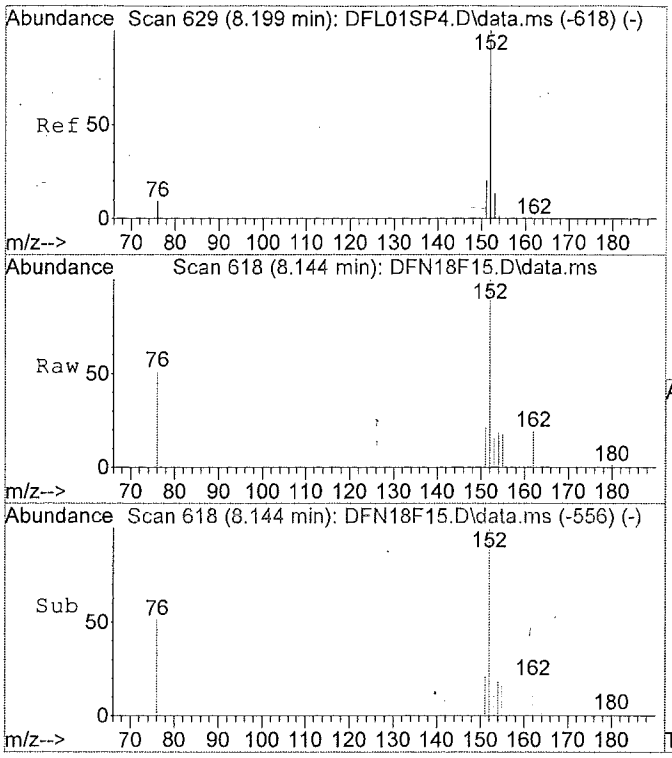
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- ☑ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

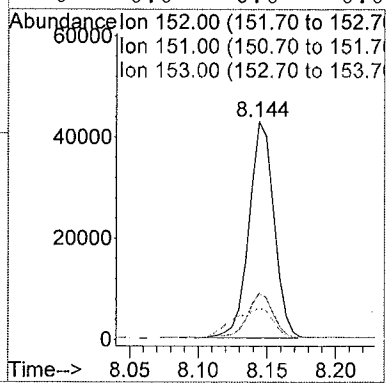
initials ZJK *date* 7.18.15

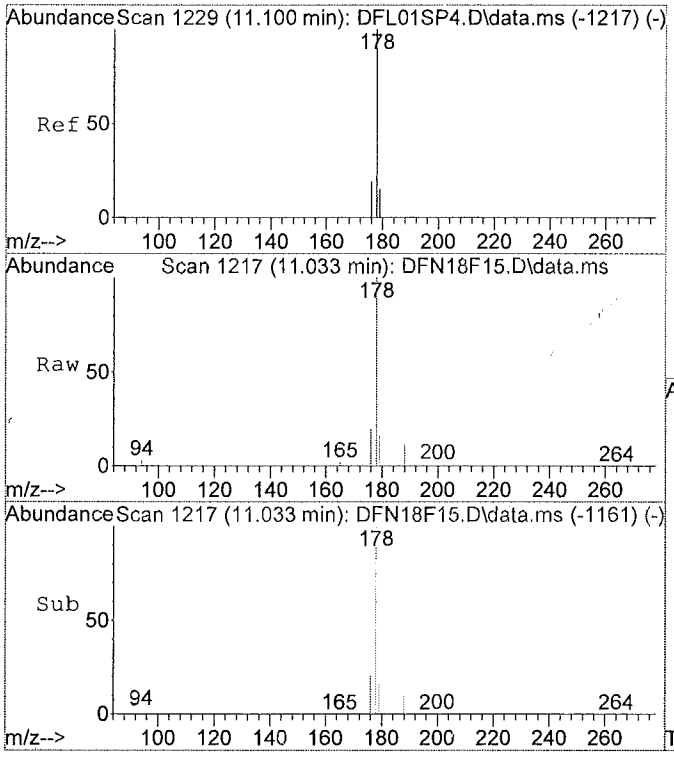


#6
Acenaphthylene
Concen: 0.08 ug/ml
RT: 8.14 min Scan# 618
Delta R,T. 0.00 min
Lab File: DFN18F15.D
Acq: 07/16/2015 16:49

Tgt Ion:152 Resp: 54218

Ion	Ratio	Lower	Upper
152	100		
151	22.0	15.5	28.7
153	22.2	8.8	16.4#
0	0.0	0.0	0.0

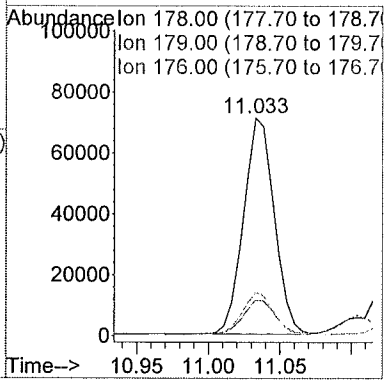


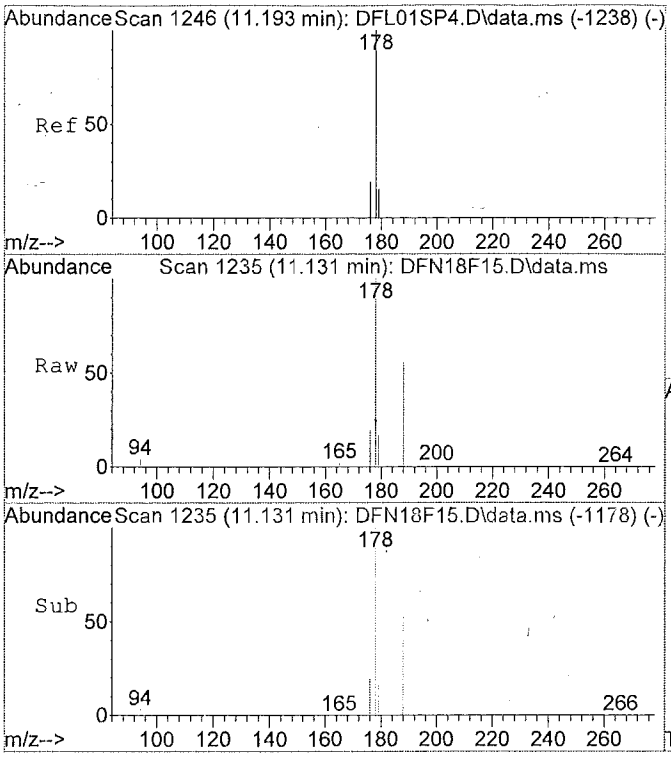


#11
Phenanthrene
Concen: 0.15 ug/ml
RT: 11.03 min Scan# 1217
Delta R.T. 0.00 min
Lab File: DFN18F15.D
Acq: 07/16/2015 16:49

Tgt Ion:178 Resp: 105897

Ion	Ratio	Lower	Upper
178	100		
179	16.6	11.1	20.5
176	19.6	14.1	26.1
0	0.0	0.0	0.0

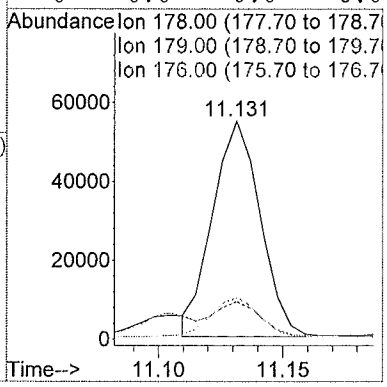


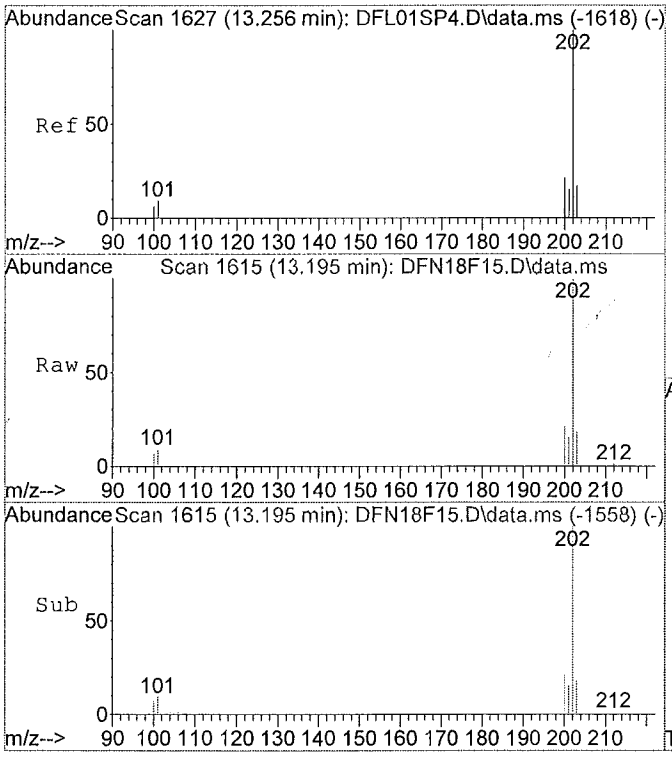


#12
Anthracene
Concen: 0.10 ug/ml m
RT: 11.13 min Scan# 1235
Delta R,T. 0.01 min
Lab File: DFN18F15.D
Acq: 07/16/2015 16:49

Tgt Ion:178 Resp: 72382

Ion	Ratio	Lower	Upper
178	100		
179	15.3	11.6	21.6
176	19.9	13.9	25.7
0	0.0	0.0	0.0

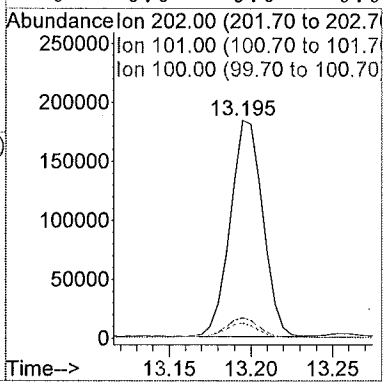


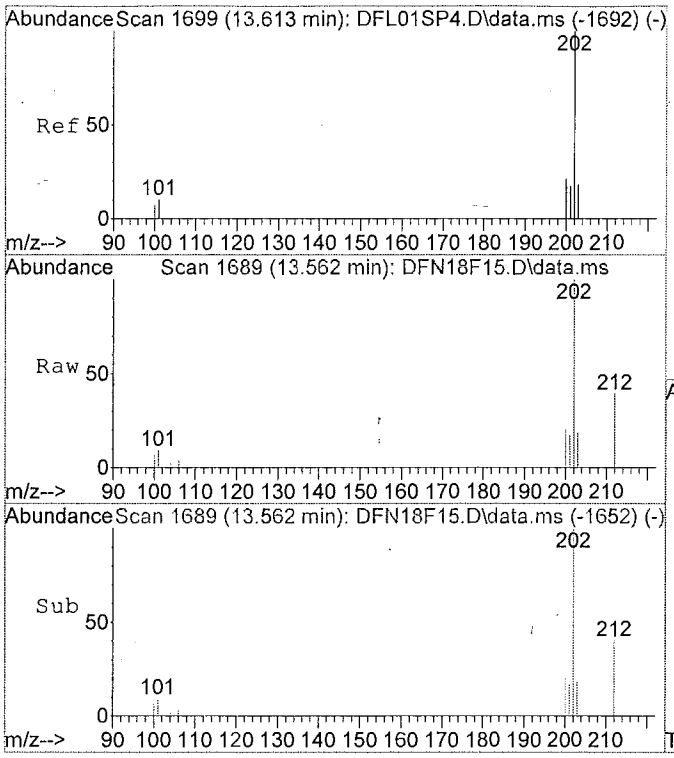


#14
Fluoranthene
Concen: 0.31 ug/ml
RT: 13.19 min Scan# 1615
Delta R.T. 0.00 min
Lab File: DFN18F15.D
Acq: 07/16/2015 16:49

Tgt Ion:202 Resp: 252079

Ion	Ratio	Lower	Upper
202	100		
101	9.4	9.4	17.6#
100	7.7	0.0	0.0#
0	0.0	0.0	0.0

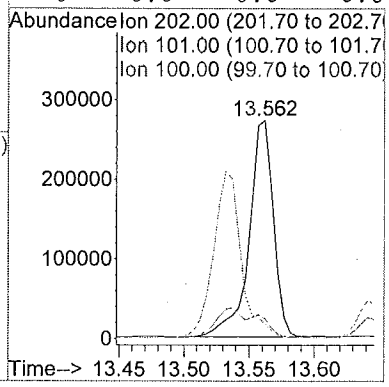


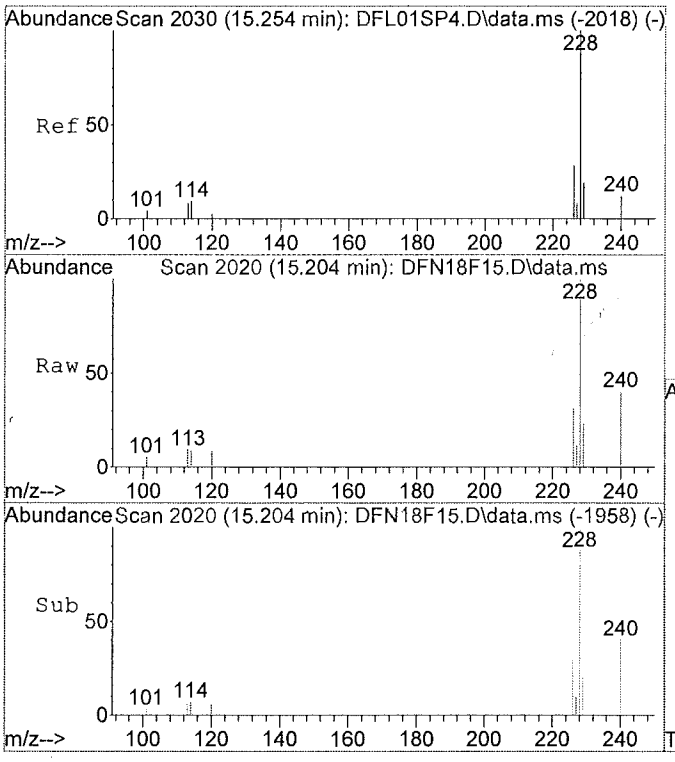


#16
Pyrene
Concen: 0.40 ug/ml
RT: 13.56 min Scan# 1689
Delta R.T. 0.01 min
Lab File: DFN18F15.D
Acq: 07/16/2015 16:49

Tgt Ion:202 Resp: 352573

Ion	Ratio	Lower	Upper
202	100		
101	15.3	10.6	19.6
100	88.2	9.4	17.4#
0	0.0	0.0	0.0

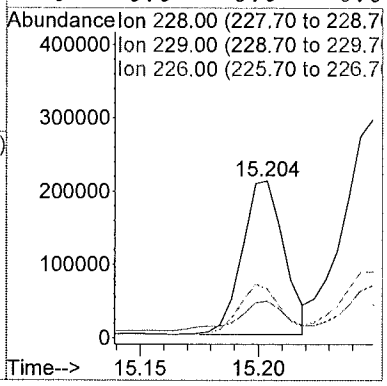


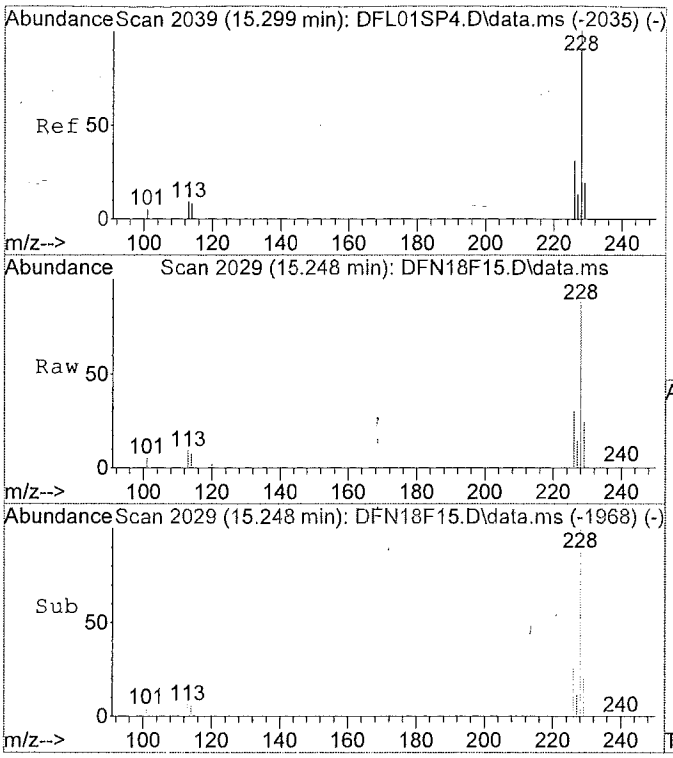


#17
Benzo(a)anthracene
Concen: 0.34 ug/ml
RT: 15.20 min Scan# 2020
Delta R.T. 0.01 min
Lab File: DFN18F15.D
Acq: 07/16/2015 16:49

Tgt Ion:228 Resp: 258686

Ion	Ratio	Lower	Upper
228	100		
229	25.4	14.5	26.9
226	32.7	18.5	34.3
0	0.0	0.0	0.0

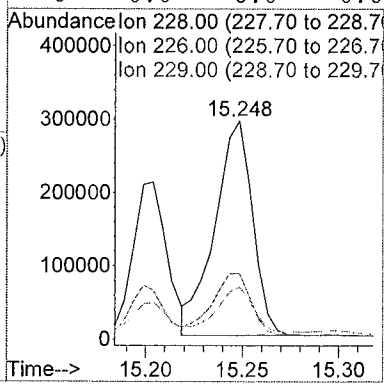


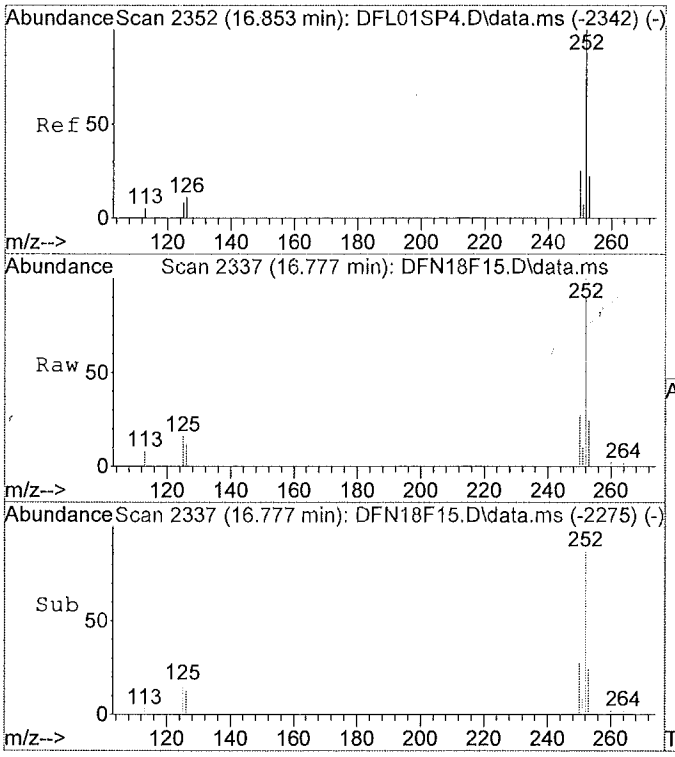


#18
Chrysene
Concen: 0.49 ug/ml
RT: 15.25 min Scan# 2029
Delta R.T. 0.00 min
Lab File: DFN18F15.D
Acq: 07/16/2015 16:49

Tgt Ion:228 Resp: 394212

Ion	Ratio	Lower	Upper
228	100		
226	31.7	19.7	36.7
229	23.1	14.5	26.9
0	0.0	0.0	0.0

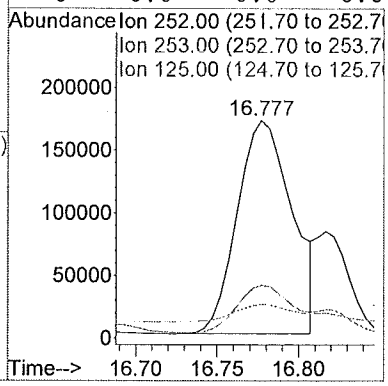


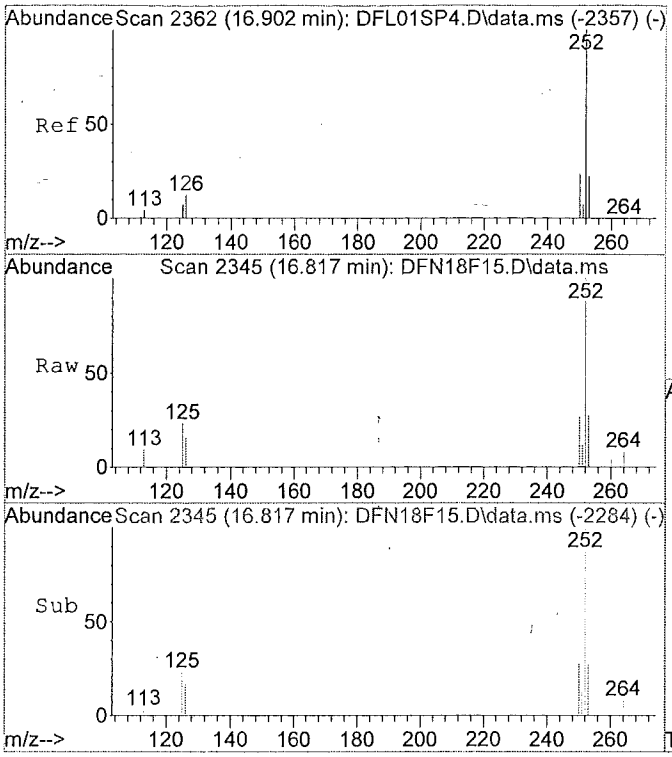


#20
Benzo(b)fluoranthene
Concen: 0.42 ug/ml
RT: 16.78 min Scan# 2337
Delta R.T. 0.01 min
Lab File: DFN18F15.D
Acq: 07/16/2015 16:49

Tgt Ion:252 Resp: 397627

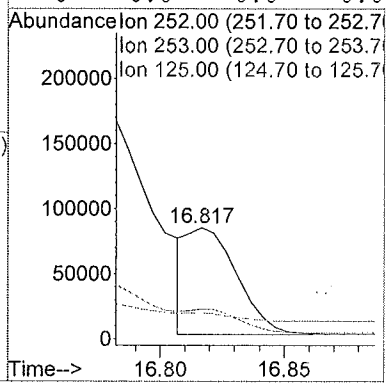
Ion	Ratio	Lower	Upper
252	100		
253	22.3	15.3	28.3
125	11.1	0.0	0.0#
0	0.0	0.0	0.0

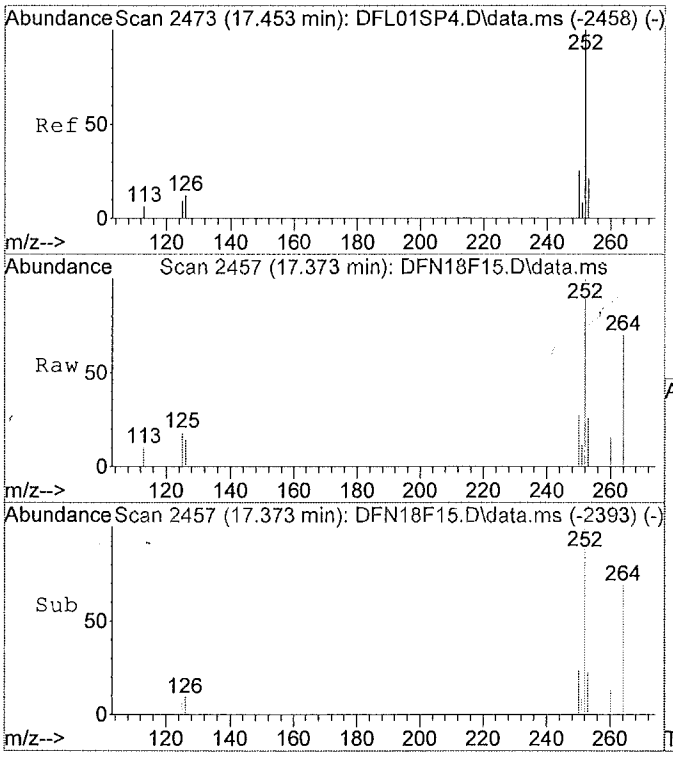




#21
Benzo(k)fluoranthene
Concen: 0.12 ug/ml m
RT: 16.82 min Scan# 2345
Delta R.T. 0.00 min
Lab File: DFN18F15.D
Acq: 07/16/2015 16:49

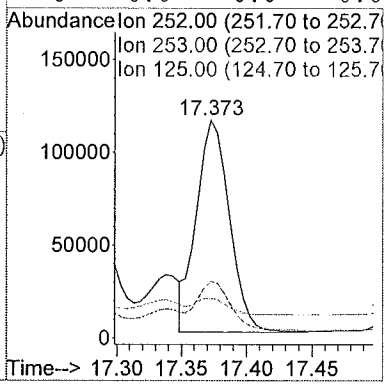
Tgt Ion:252	Resp:	116310	
Ion	Ratio	Lower	Upper
252	100		
253	76.3	15.0	27.8#
125	38.0	0.0	0.0#
0	0.0	0.0	0.0

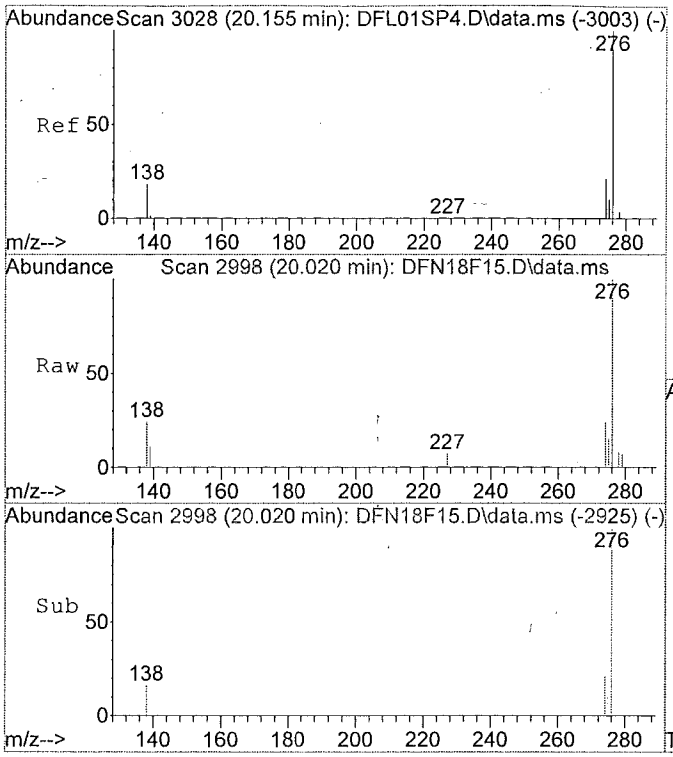




#22
Benzo(a)pyrene
Concen: 0.22 ug/ml
RT: 17.37 min Scan# 2457
Delta R.T. 0.02 min
Lab File: DFN18F15.D
Acq: 07/16/2015 16:49

Tgt Ion:252	Resp:	202465	
Ion	Ratio	Lower	Upper
252	100		
253	23.1	15.0	27.8
125	8.2	0.0	0.0#
0	0.0	0.0	0.0

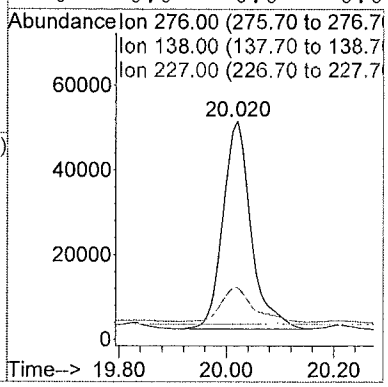


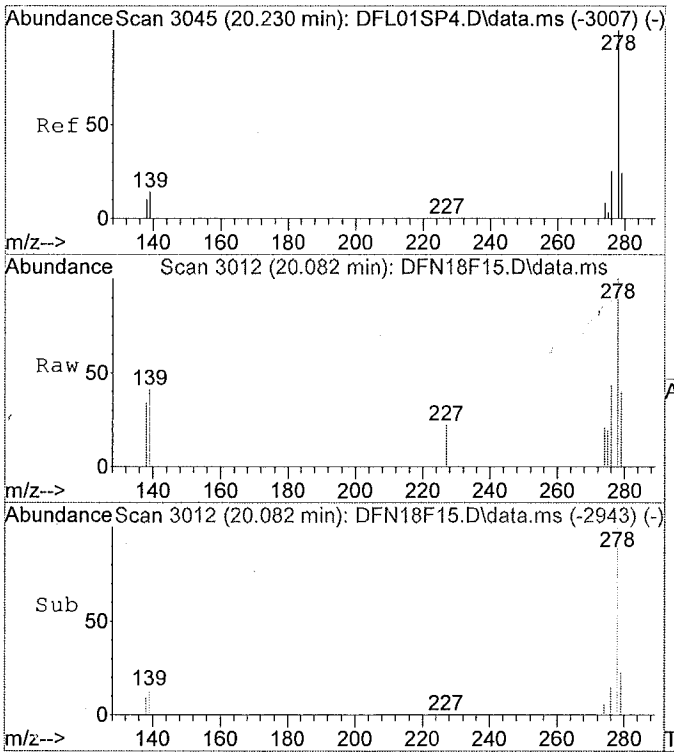


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.22 ug/ml
RT: 20.02 min Scan# 2998
Delta R.T. 0.03 min
Lab File: DFN18F15.D
Acq: 07/16/2015 16:49

Tgt Ion:276 Resp: 176513

Ion	Ratio	Lower	Upper
276	100		
138	19.7	0.0	0.0#
227	0.1	0.0	0.0#
0	0.0	0.0	0.0

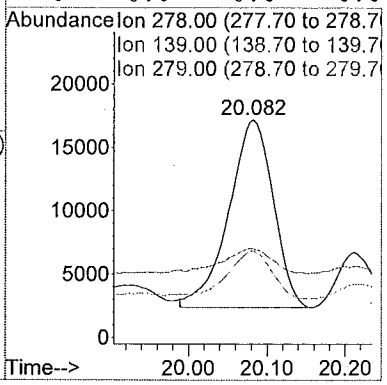




#24
Dibenzo(a,h)anthracene
Concen: 0.07 ug/ml
RT: 20.08 min Scan# 3012
Delta R.T. 0.01 min
Lab File: DFN18F15.D
Acq: 07/16/2015 16:49

Tgt Ion:278 Resp: 58150

Ion	Ratio	Lower	Upper
278	100		
139	14.3	0.0	0.0#
279	25.0	15.8	29.3
0	0.0	0.0	0.0



00957

1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M34

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFN19F16

Extraction: (Type) SONC

% Moisture: 18. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/16/2015

GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 2.0

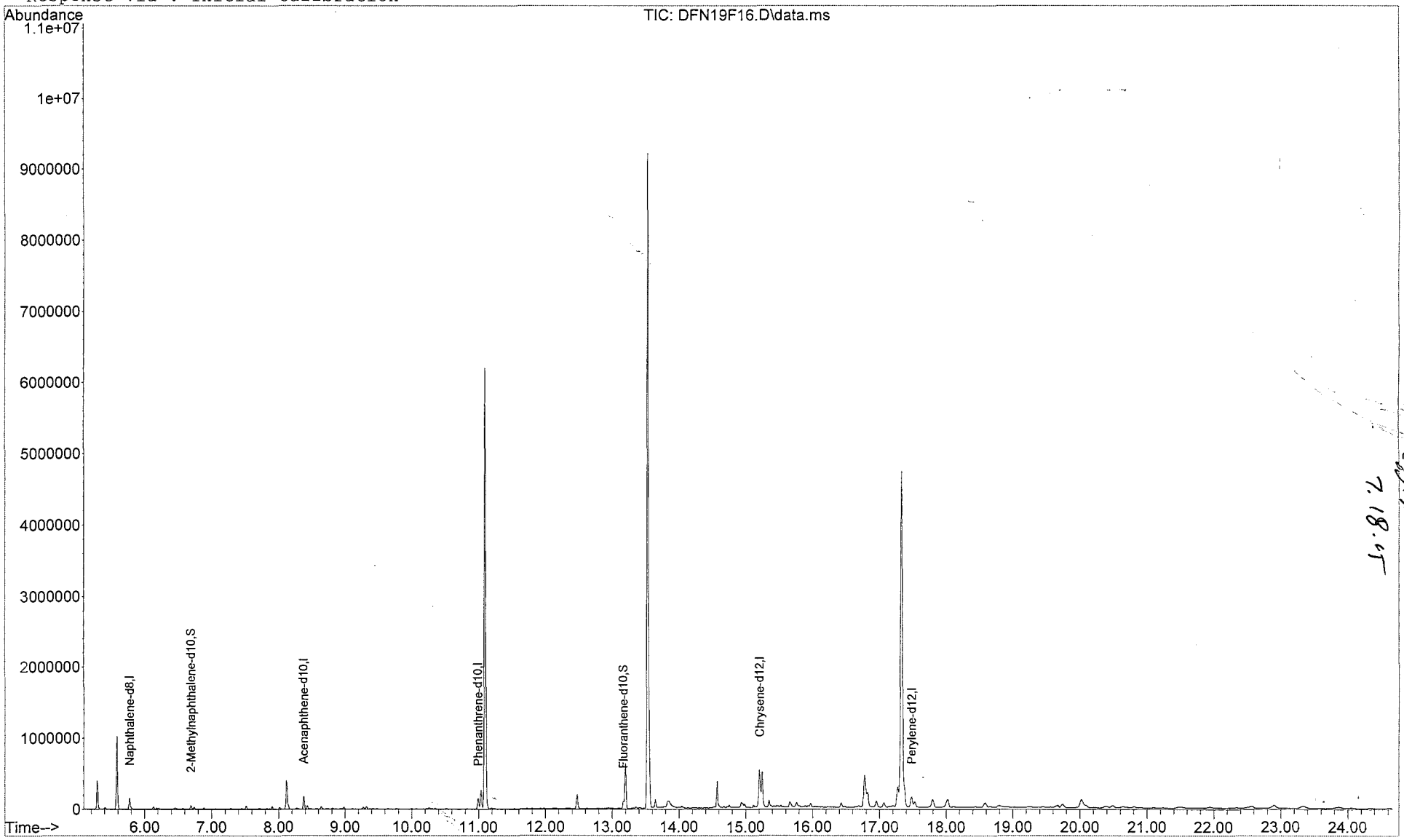
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	2.9	J
91-57-6	2-Methylnaphthalene	3.7	J
208-96-8	Acenaphthylene	6.6	J
83-32-9	Acenaphthene	5.6	J
86-73-7	Fluorene	3.9	J
87-86-5	Pentachlorophenol	16.	U
85-01-8	Phenanthrene	39.	
120-12-7	Anthracene	10.	
206-44-0	Fluoranthene	63.	
129-00-0	Pyrene	60.	
56-55-3	Benzo(a)anthracene	42.	
218-01-9	Chrysene	49.	
205-99-2	Benzo(b)fluoranthene	64.	
207-08-9	Benzo(k)fluoranthene	17.	
50-32-8	Benzo(a)pyrene	35.	
193-39-5	Indeno(1,2,3-cd)pyrene	35.	
53-70-3	Dibenzo(a,h)anthracene	8.3	
191-24-2	Benzo(g,h,i)perylene	2.9	J

Quantitation Report

Data File : R:\D\2015\JUL15\16JUL15DPM\DFN19F16.D Vial: 13
Acq On : 07/16/2015 17:19 Operator: DJC
Sample : 1515542016 F9M34 (2) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jul 18 12:33:48 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



7.18.15

Quantitation Report

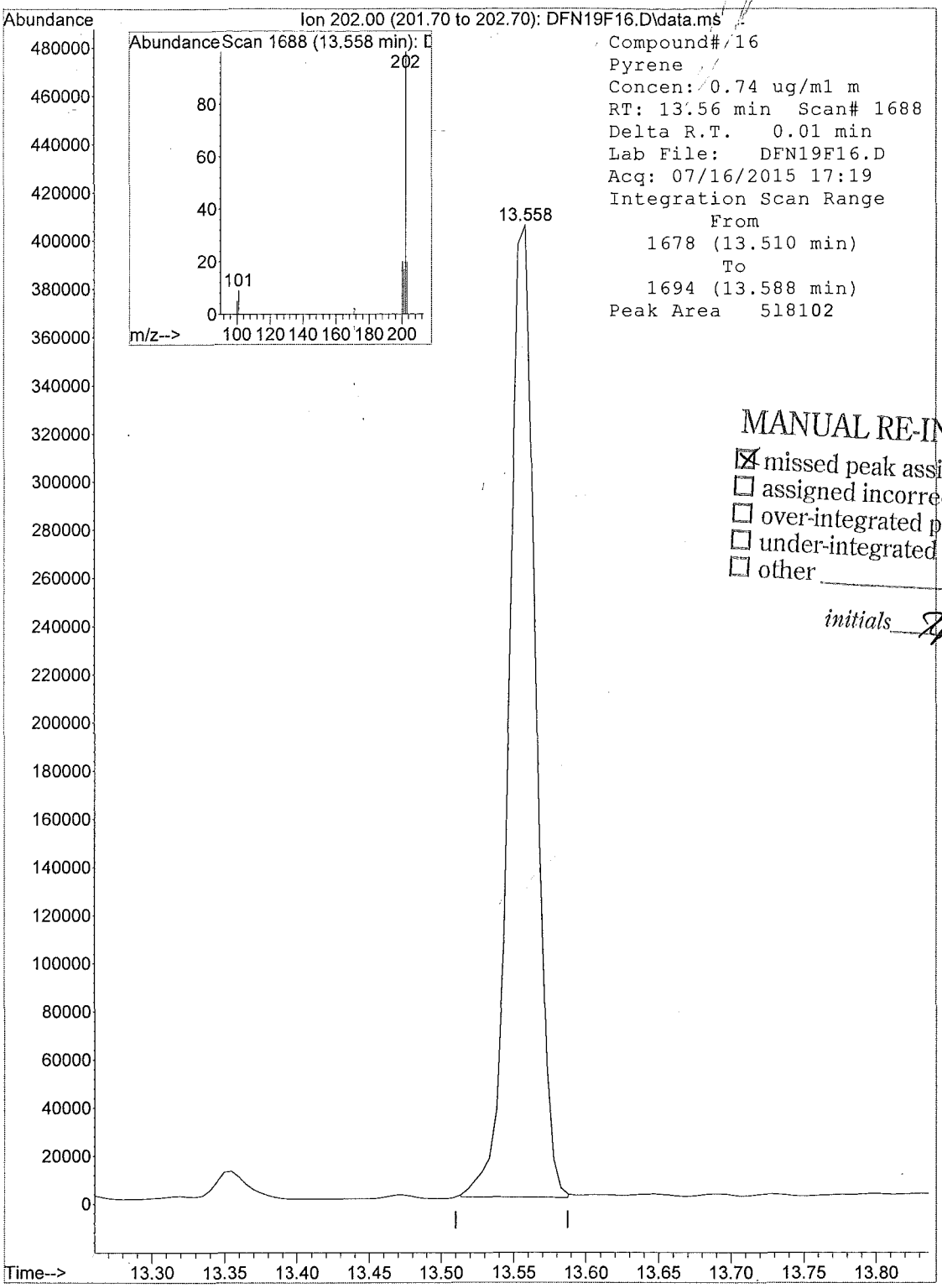
Data File : R:\D\2015\JUL15\16JUL15DPM\DFN19F16.D Vial: 13
Acq On : 07/16/2015 17:19 Operator: DJC
Sample : 1515542016 F9M34 (2) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 18 12:33:48 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.78	136	167388	0.40 ug/ml	
5) Acenaphthene-d10	8.38	164	115080	0.40 ug/ml	
9) Phenanthrene-d10	10.99	188	193409	0.40 ug/ml	
15) Chrysene-d12	15.21	240	222540	0.40 ug/ml	
19) Perylene-d12	17.48	264	233252	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.69	152	52047	0.193ug/mL	
13) Fluoranthene-d10	13.17	212	110027	0.208ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.80	128	15939	0.037ug/ml	93
4) 2-Methylnaphthalene	6.74	142	13025	0.046ug/ml	99
6) Acenaphthylene	8.14	152	40948	0.081ug/ml	92
7) Acenaphthene	8.43	153	22244	0.069ug/ml	96
8) Fluorene	9.32	166	18261	0.049ug/ml	98
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.03	178	269195	0.483ug/ml	99
12) Anthracene	11.13	178	69148	0.128ug/ml	96
14) Fluoranthene	13.20	202	495348	0.781ug/ml	92
16) Pyrene	13.56	202	518102	0.742ug/ml m	94 7.18.15
17) Benzo(a)anthracene	15.20	228	306527	0.517ug/ml	85
18) Chrysene	15.24	228	378369	0.603ug/ml	94
20) Benzo(b)fluoranthene	16.77	252	573051	0.788ug/ml	99
21) Benzo(k)fluoranthene	16.82	252	162641	0.216ug/ml m	98 7.18.15
22) Benzo(a)pyrene	17.37	252	299804	0.432ug/ml	98
23) Indeno(1,2,3-c,d)pyrene	20.02	276	262829	0.432ug/ml	100
24) Dibenzo(a,h)anthracene	20.09	278	69306	0.103ug/ml	93
25) Benzo(g,h,i)perylene	20.81	276	24750	0.036ug/ml	52

(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

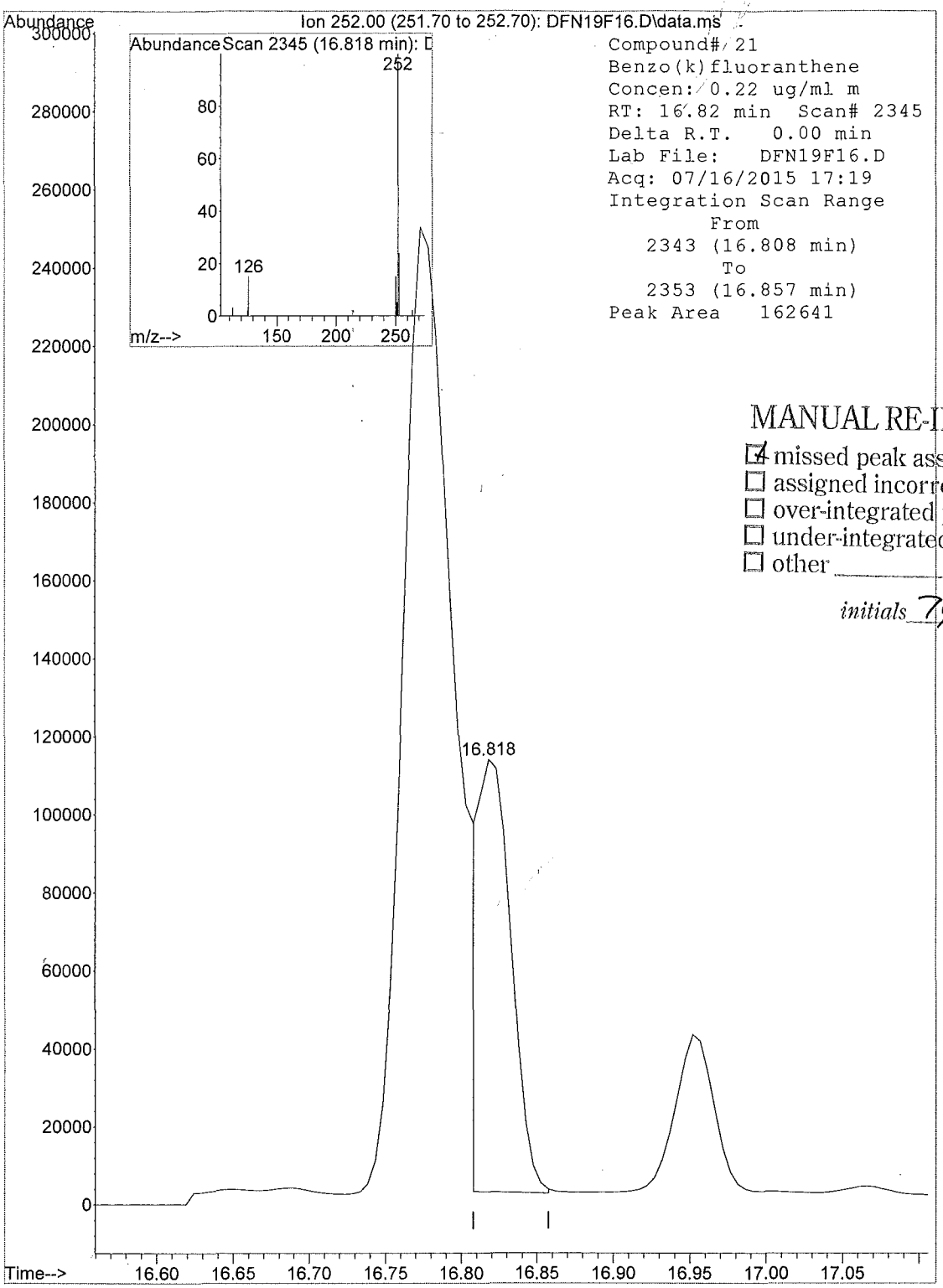


MANUAL RE-INTEGRATION

- ☒ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials _____ *date* 7.18.15

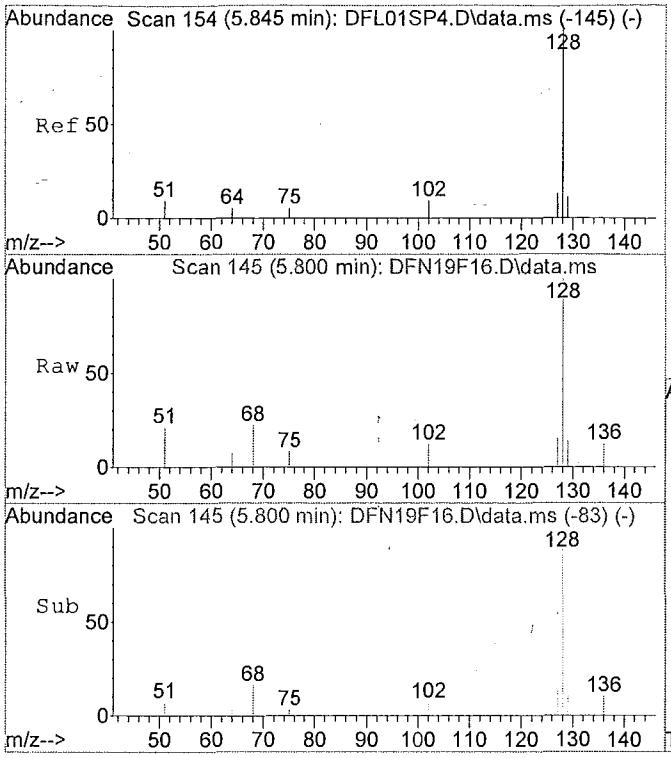
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- ☒ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

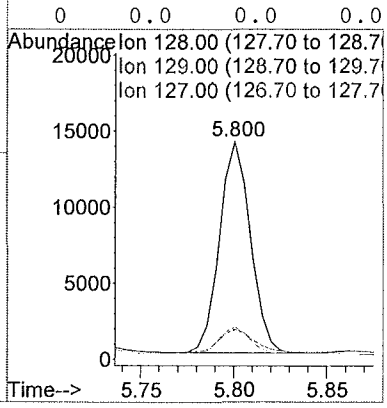
initials JV *date* 7.18.15

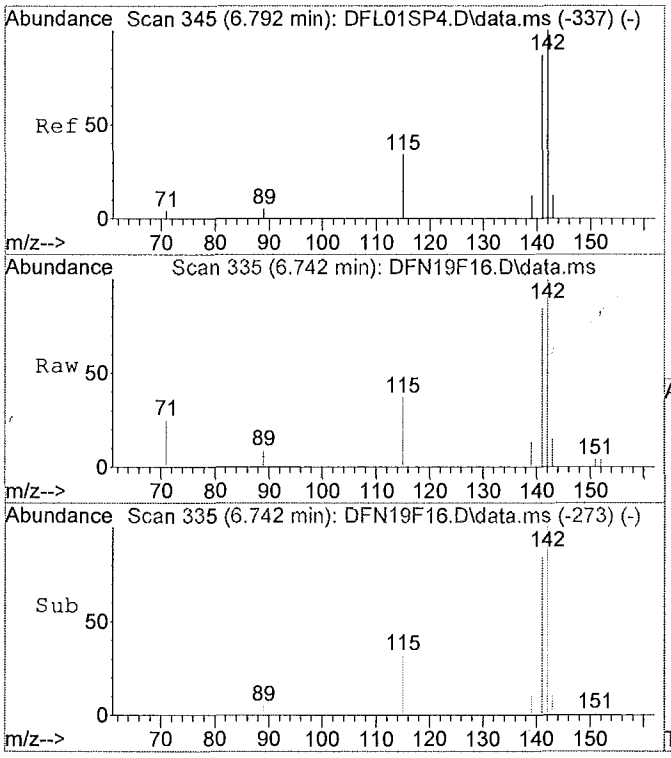


#2
Naphthalene
Concen: 0.04 ug/ml
RT: 5.80 min Scan# 145
Delta R.T. 0.00 min
Lab File: DFN19F16.D
Acq: 07/16/2015 17:19

Tgt Ion:128 Resp: 15939

Ion	Ratio	Lower	Upper
128	100		
129	12.4	0.0	0.0#
127	12.7	11.1	20.5
0	0.0	0.0	0.0

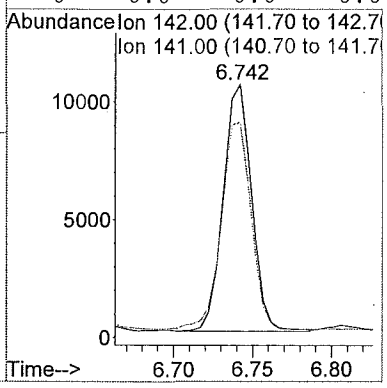


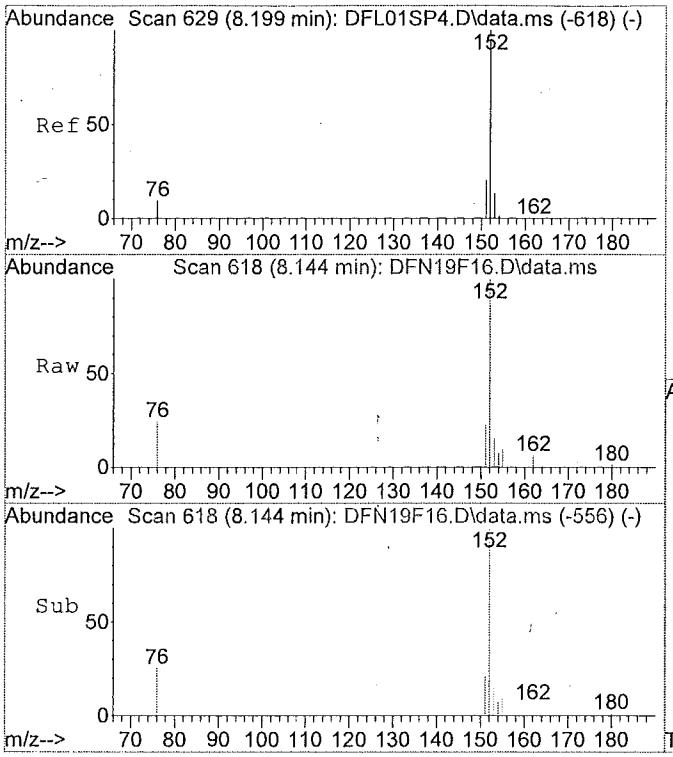


#4
2-Methylnaphthalene
Concen: 0.05 ug/ml
RT: 6.74 min Scan# 335
Delta R.T. 0.00 min
Lab File: DFN19F16.D
Acq: 07/16/2015 17:19

Tgt Ion:142 Resp: 13025

Ion	Ratio	Lower	Upper
142	100		
141	88.3	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

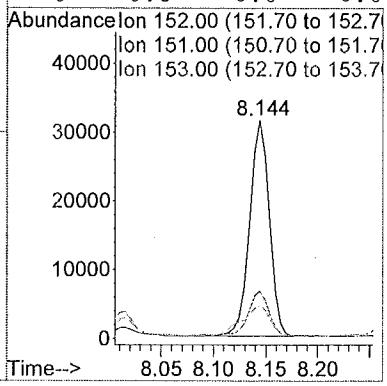


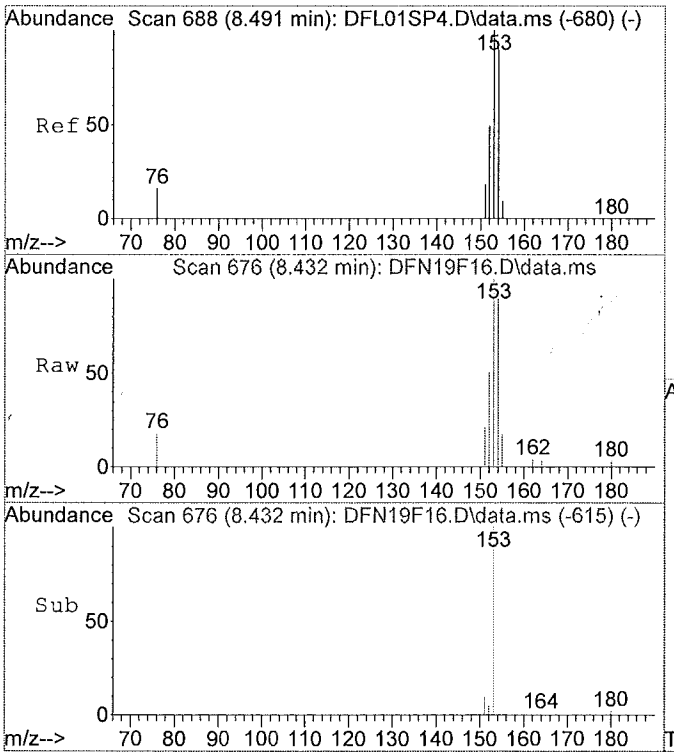


#6
Acenaphthylene
Concen: 0.08 ug/ml
RT: 8.14 min Scan# 618
Delta R.T. 0.00 min
Lab File: DFN19F16.D
Acq: 07/16/2015 17:19

Tgt Ion:152 Resp: 40948

Ion	Ratio	Lower	Upper
152	100		
151	21.7	15.5	28.7
153	21.0	8.8	16.4#
0	0.0	0.0	0.0

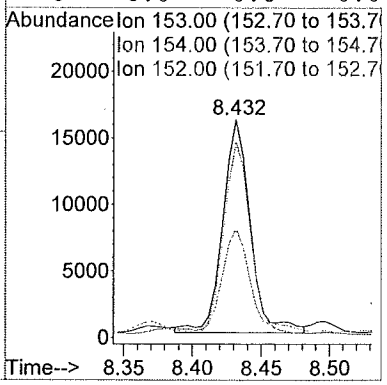


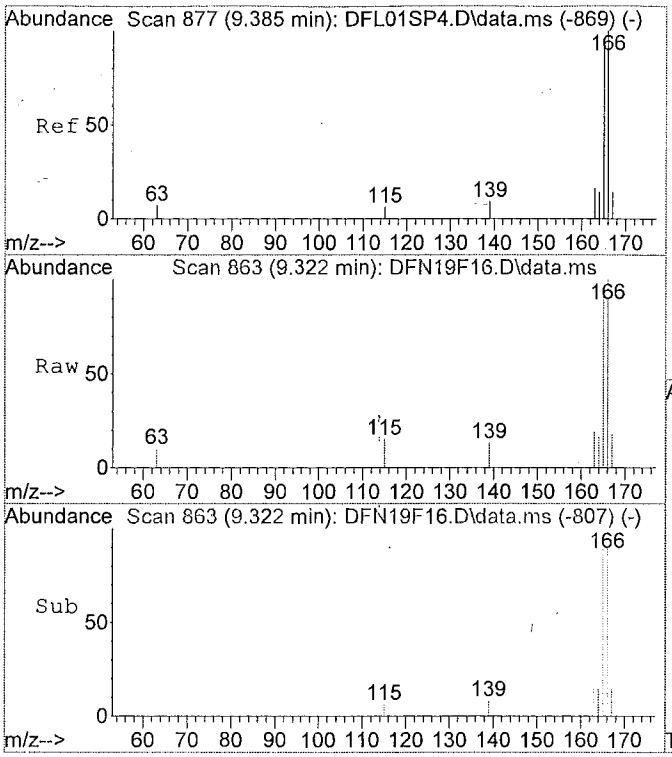


#7
Acenaphthene
Concen: 0.07 ug/ml
RT: 8.43 min Scan# 676
Delta R.T. 0.00 min
Lab File: DFN19F16.D
Acq: 07/16/2015 17:19

Tgt Ion:153 Resp: 22244

Ion	Ratio	Lower	Upper
153	100		
154	87.4	65.1	120.9
152	50.3	35.2	65.4
0	0.0	0.0	0.0

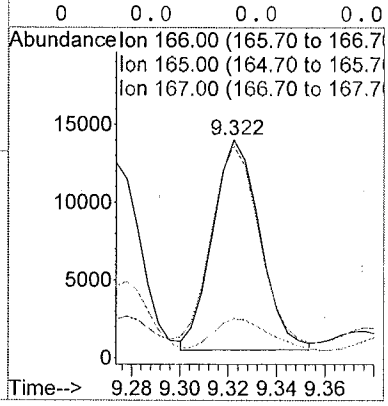


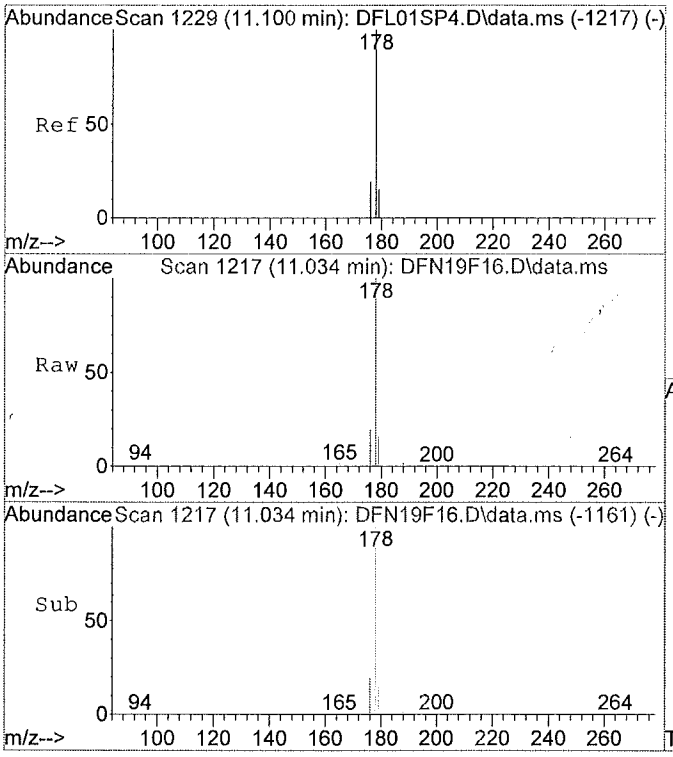


#8
Fluorene
Concen: 0.05 ug/ml
RT: 9.32 min Scan# 863
Delta R.T. 0.00 min
Lab File: DFN19F16.D
Acq: 07/16/2015 17:19

Tgt Ion:166 Resp: 18261

Ion	Ratio	Lower	Upper
166	100		
165	97.0	66.3	123.1
167	17.2	0.0	0.0#
0	0.0	0.0	0.0

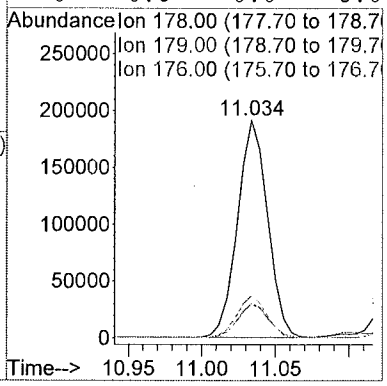


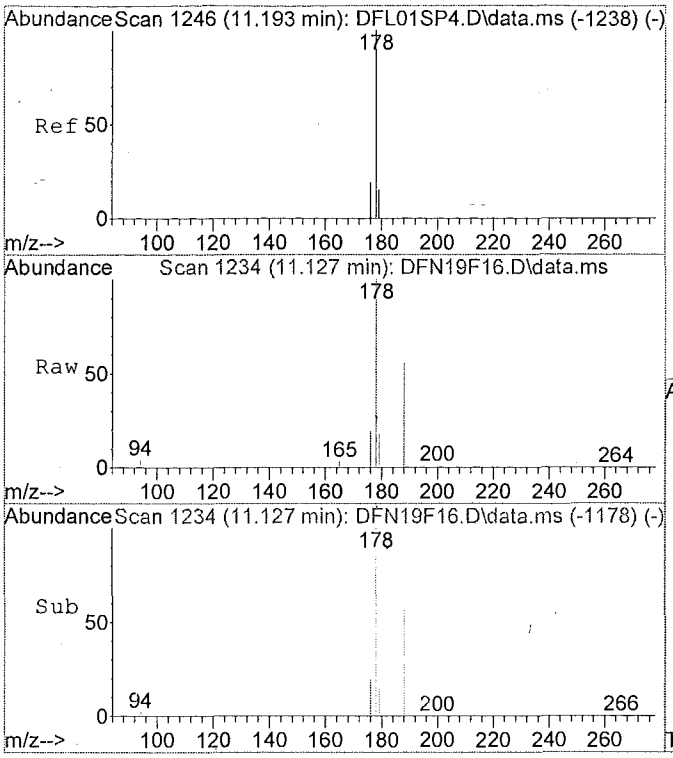


#11
Phenanthrene
Concen: 0.48 ug/ml
RT: 11.03 min Scan# 1217
Delta R.T. 0.01 min
Lab File: DFN19F16.D
Acq: 07/16/2015 17:19

Tgt Ion:178 Resp: 269195

Ion	Ratio	Lower	Upper
178	100		
179	15.6	11.1	20.5
176	19.2	14.1	26.1
0	0.0	0.0	0.0

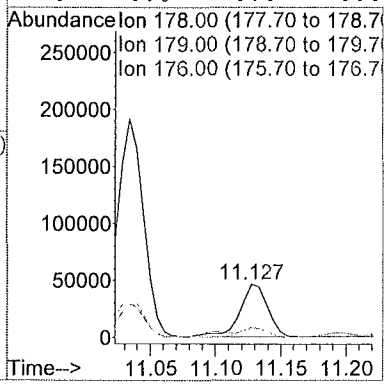


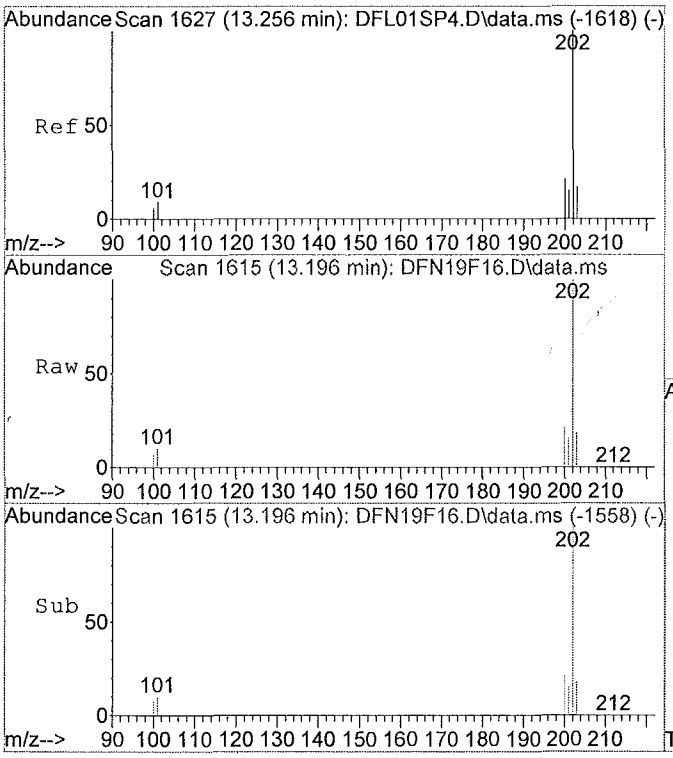


#12
Anthracene
Concen: 0.13 ug/ml
RT: 11.13 min Scan# 1234
Delta R.T. 0.01 min
Lab File: DFN19F16.D
Acq: 07/16/2015 17:19

Tgt Ion:178 Resp: 69148

Ion	Ratio	Lower	Upper
178	100		
179	15.3	11.6	21.6
176	17.9	13.9	25.7
0	0.0	0.0	0.0

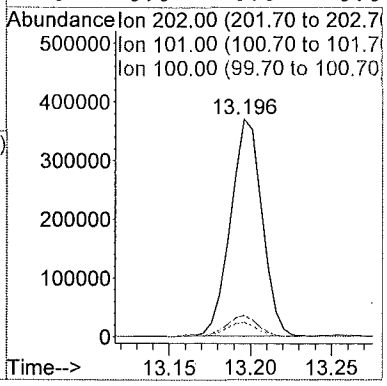


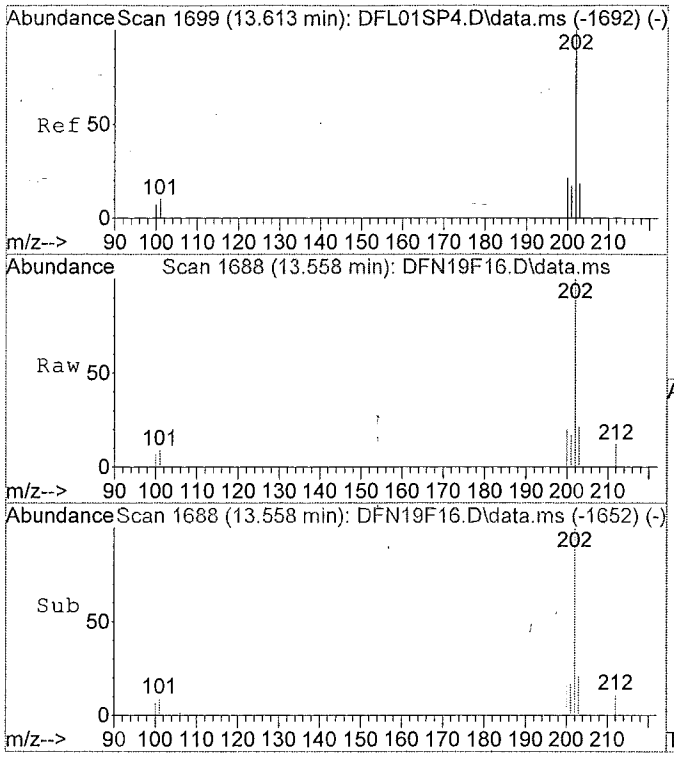


#14
Fluoranthene
Concen: 0.78 ug/ml
RT: 13.20 min Scan# 1615
Delta R.T. 0.00 min
Lab File: DFN19F16.D
Acq: 07/16/2015 17:19

Tgt Ion:202 Resp: 495348

Ion	Ratio	Lower	Upper
202	100		
101	10.2	9.4	17.6
100	7.2	0.0	0.0#
0	0.0	0.0	0.0

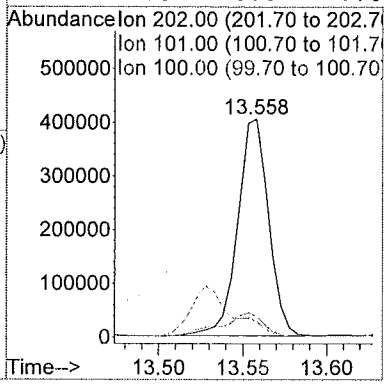


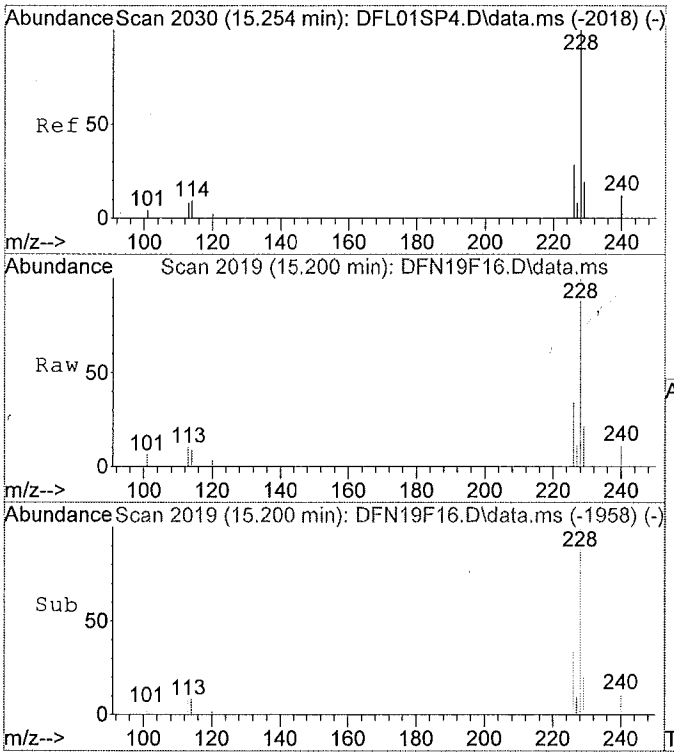


#16
Pyrene
Concen: 0.74 ug/ml m
RT: 13.56 min Scan# 1688
Delta R.T. 0.01 min
Lab File: DFN19F16.D
Acq: 07/16/2015 17:19

Tgt Ion:202 Resp: 518102

Ion	Ratio	Lower	Upper
202	100		
101	0.1	10.6	19.6#
100	0.1	9.4	17.4#
0	0.0	0.0	0.0

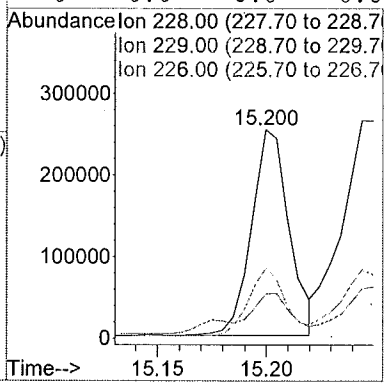


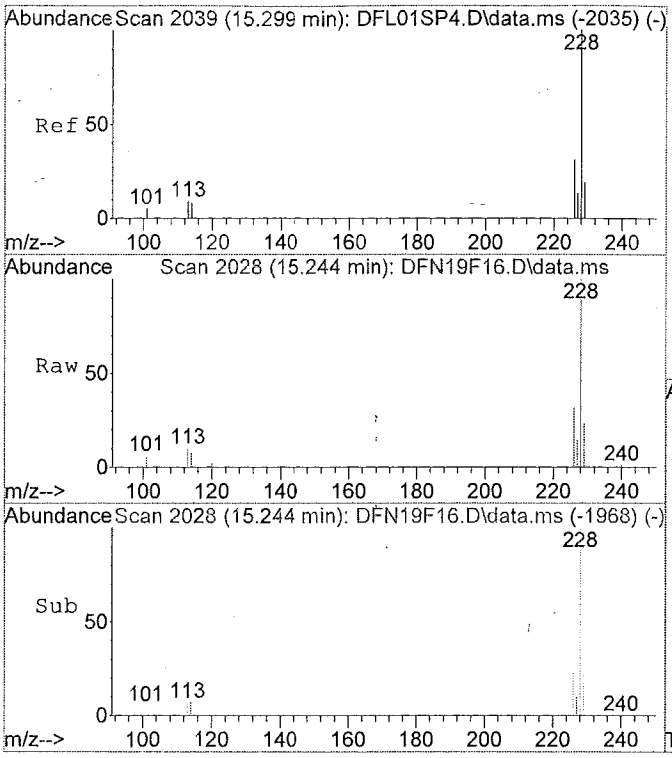


#17
Benzo(a)anthracene
Concen: 0.52 ug/ml
RT: 15.20 min Scan# 2019
Delta R.T. 0.00 min
Lab File: DFN19F16.D
Acq: 07/16/2015 17:19

Tgt Ion:228 Resp: 306527

Ion	Ratio	Lower	Upper
228	100		
229	29.7	14.5	26.9#
226	32.6	18.5	34.3
0	0.0	0.0	0.0

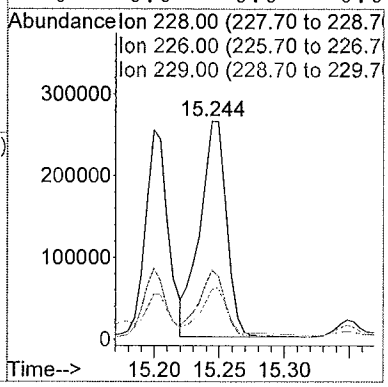


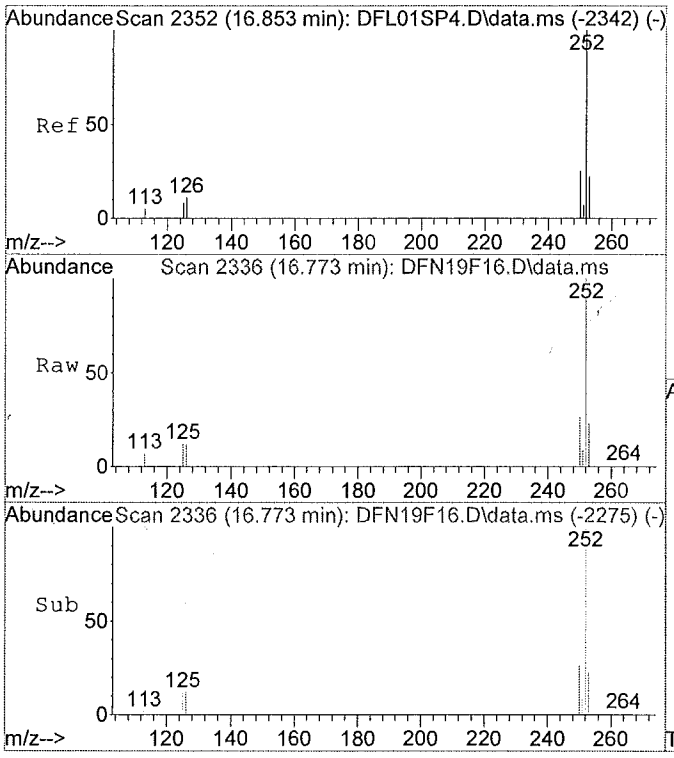


#18
Chrysene
Concen: 0.60 ug/ml
RT: 15.24 min Scan# 2028
Delta R.T. -0.00 min
Lab File: DFN19F16.D
Acq: 07/16/2015 17:19

Tgt Ion:228 Resp: 378369

Ion	Ratio	Lower	Upper
228	100		
226	31.0	19.7	36.7
229	24.0	14.5	26.9
0	0.0	0.0	0.0

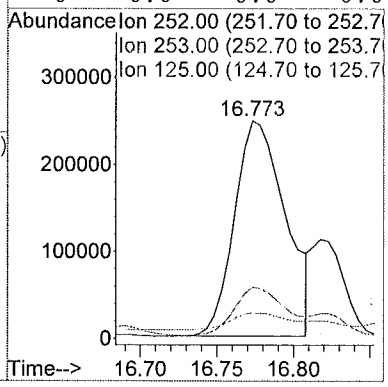


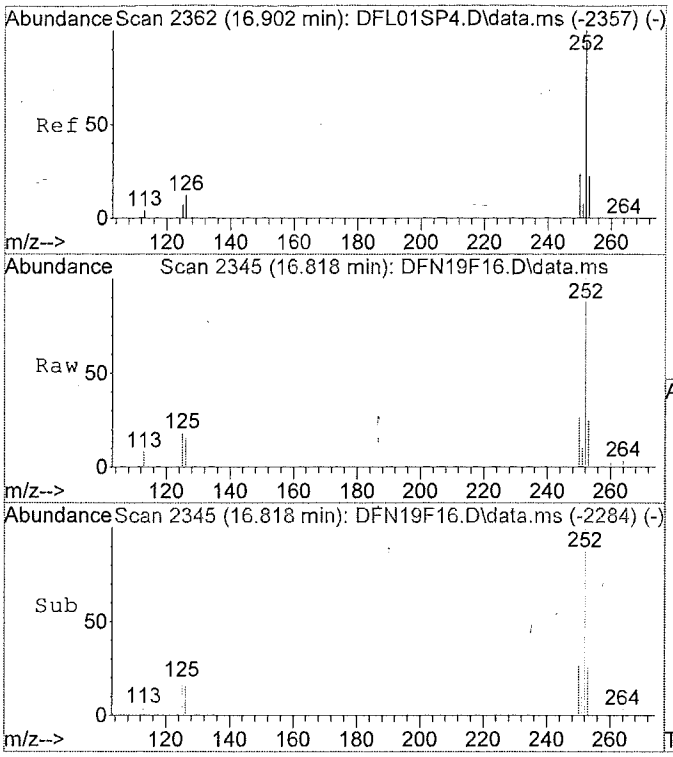


#20
Benzo(b)fluoranthene
Concen: 0.79 ug/ml
RT: 16.77 min Scan# 2336
Delta R.T. 0.01 min
Lab File: DFN19F16.D
Acq: 07/16/2015 17:19

Tgt Ion:252 Resp: 573051

Ion	Ratio	Lower	Upper
252	100		
253	22.4	15.3	28.3
125	8.5	0.0	0.0#
0	0.0	0.0	0.0

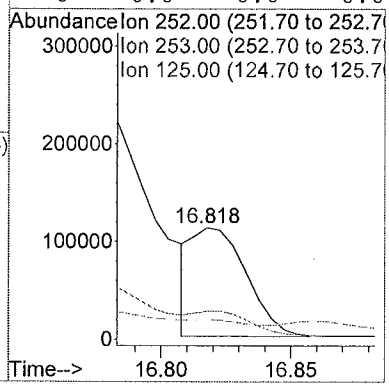


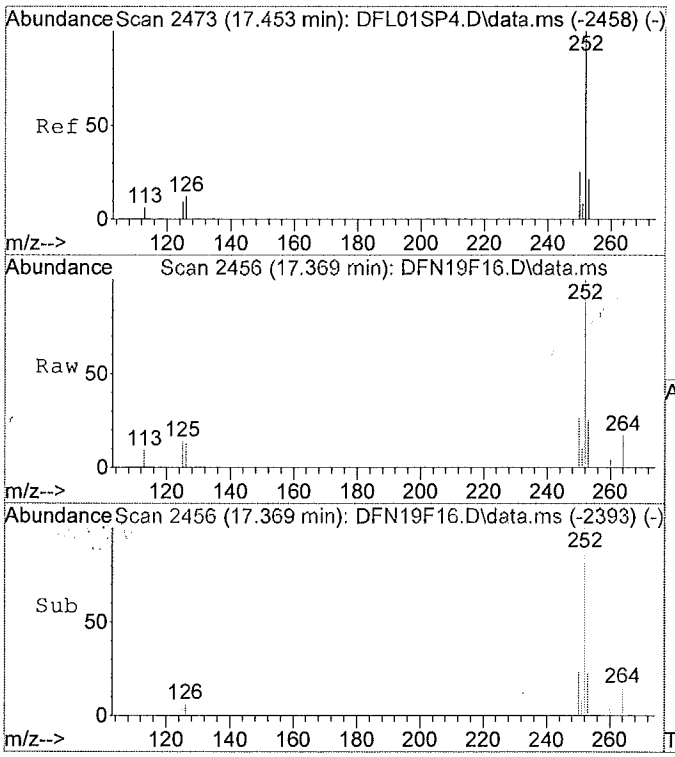


#21
Benzo(k)fluoranthene
Concen: 0.22 ug/ml m
RT: 16.82 min Scan# 2345
Delta R.T. 0.00 min
Lab File: DFN19F16.D
Acq: 07/16/2015 17:19

Tgt Ion:252 Resp: 162641

Ion	Ratio	Lower	Upper
252	100		
253	78.8	15.0	27.8#
125	30.0	0.0	0.0#
0	0.0	0.0	0.0

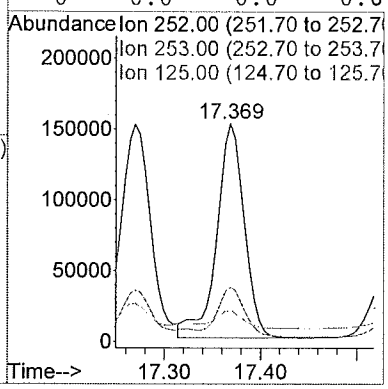


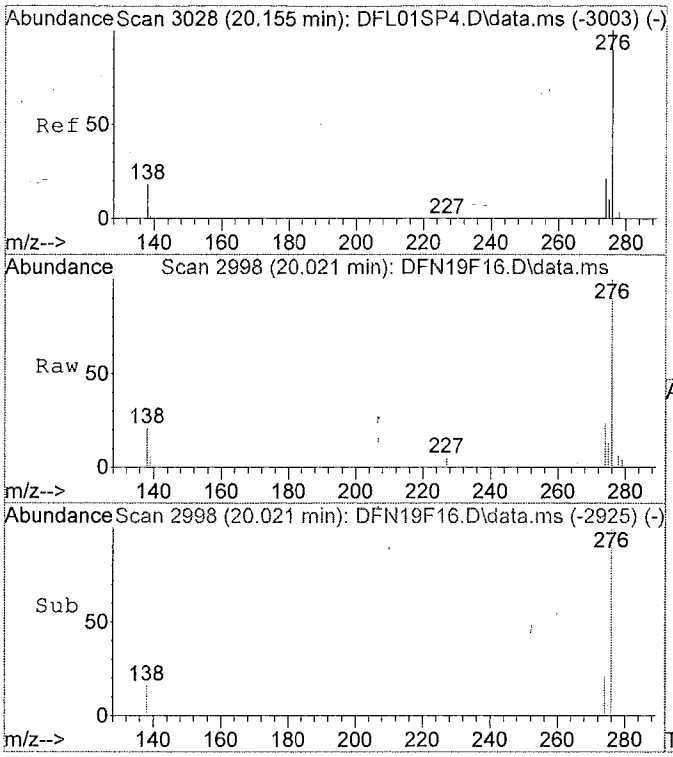


#22
Benzo(a)pyrene
Concen: 0.43 ug/ml
RT: 17.37 min Scan# 2456
Delta R.T. 0.01 min
Lab File: DFN19F16.D
Acq: 07/16/2015 17:19

Tgt Ion:252 Resp: 299804

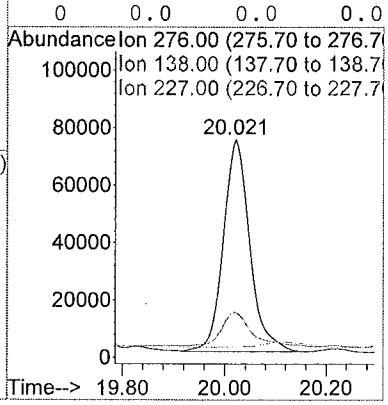
Ion	Ratio	Lower	Upper
252	100		
253	22.5	15.0	27.8
125	8.4	0.0	0.0#
0	0.0	0.0	0.0

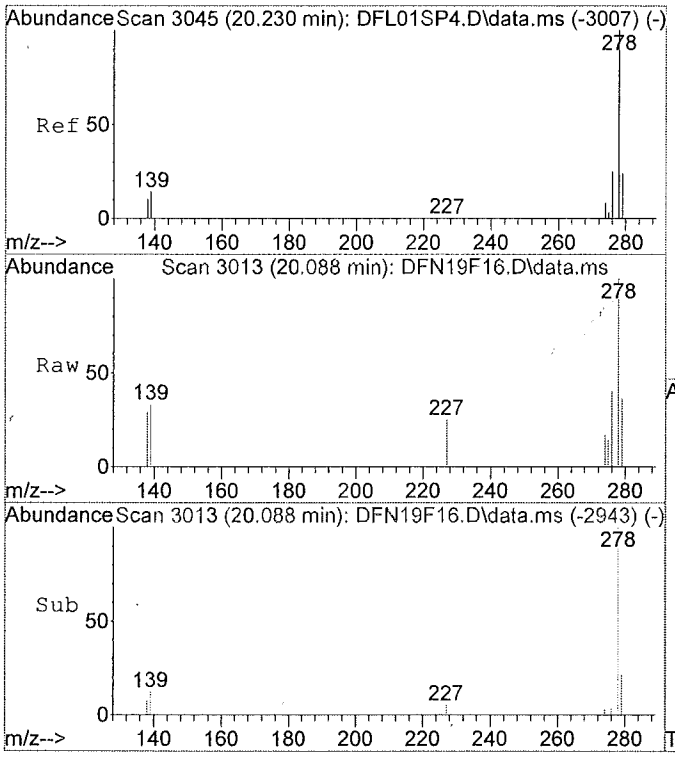




#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.43 ug/ml
RT: 20.02 min Scan# 2998
Delta R.T. 0.03 min
Lab File: DFN19F16.D
Acq: 07/16/2015 17:19

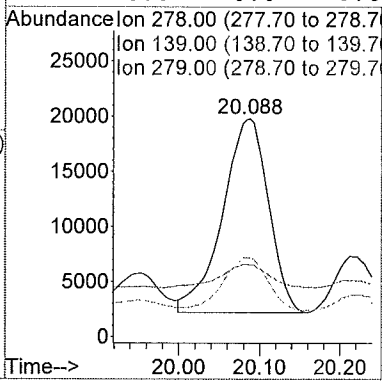
Tgt Ion:276	Resp:	262829	
Ion	Ratio	Lower	Upper
276	100		
138	18.8	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

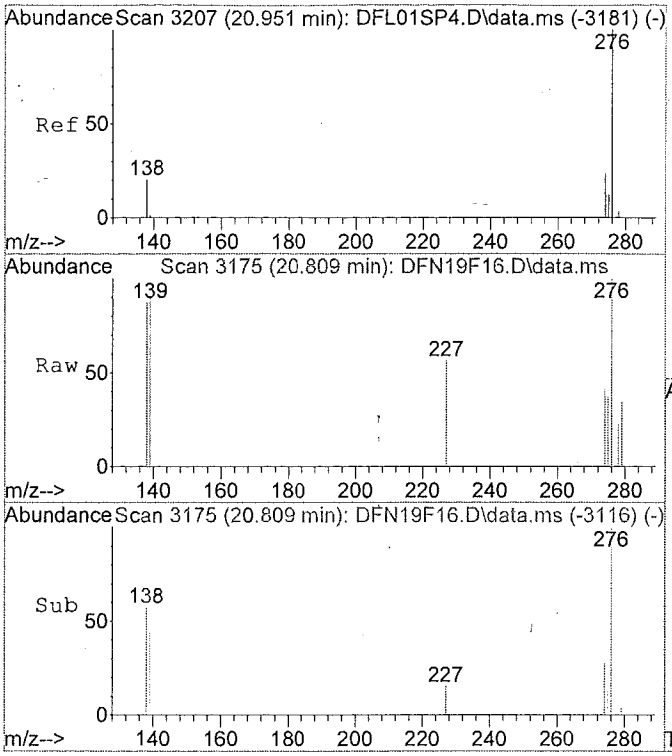




#24
Dibenzo(a,h)anthracene
Concen: 0.10 ug/ml
RT: 20.09 min Scan# 3013
Delta R.T. 0.01 min
Lab File: DFN19F16.D
Acq: 07/16/2015 17:19

Tgt Ion:278	Resp:	69306	
Ion	Ratio	Lower	Upper
278	100		
139	13.2	0.0	0.0#
279	26.0	15.8	29.3
0	0.0	0.0	0.0

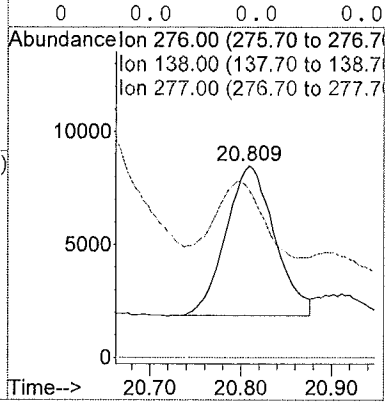




#25
Benzo(g,h,i)perylene
Concen: 0.04 ug/ml
RT: 20.81 min Scan# 3175
Delta R.T. 0.03 min
Lab File: DFN19F16.D
Acq: 07/16/2015 17:19

Tgt Ion:276 Resp: 24750

Ion	Ratio	Lower	Upper
276	100		
138	46.7	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.

F9M35

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DFN20F17

Extraction: (Type) SONC

% Moisture: 18. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/16/2015

GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 3.0

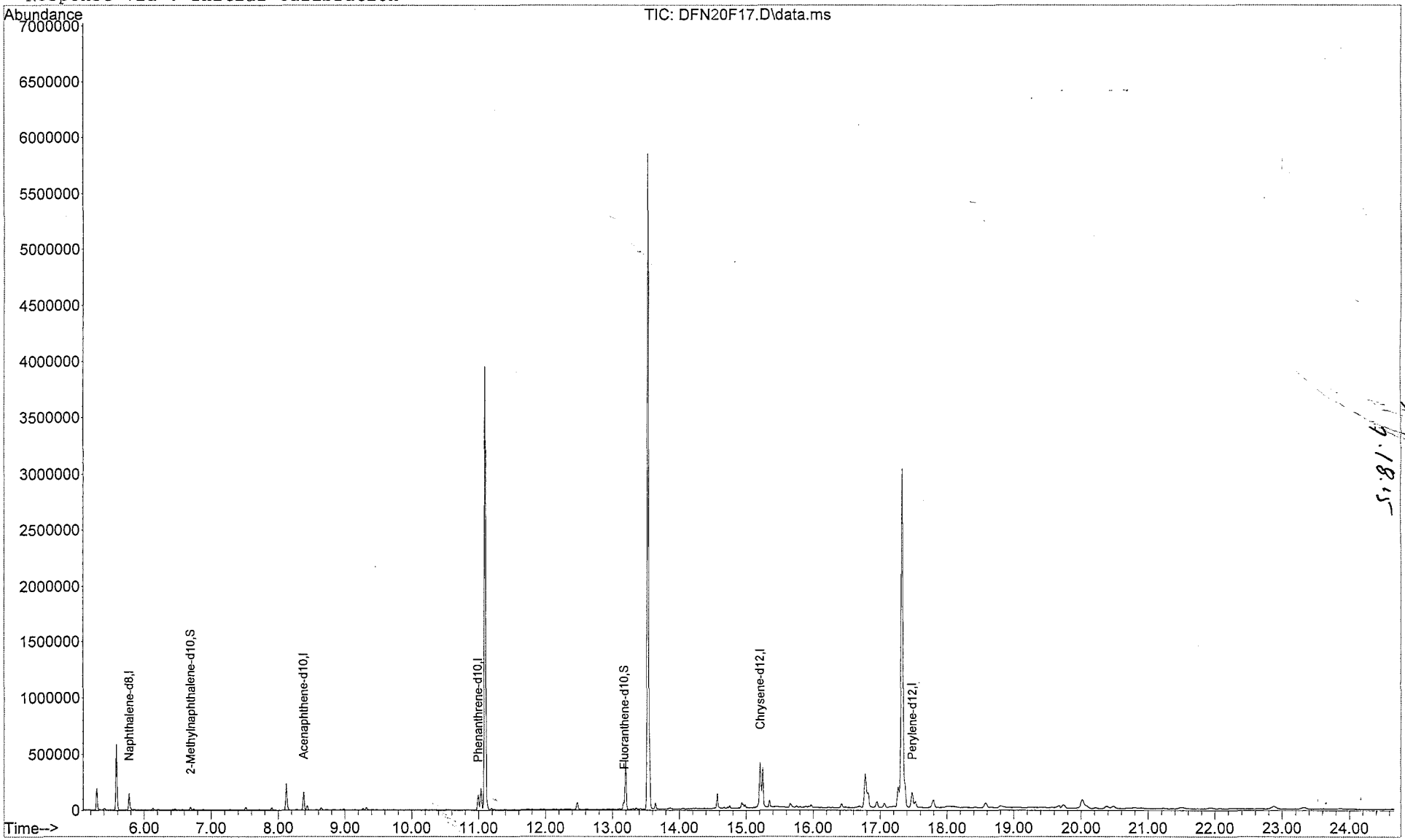
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	2.9	J
91-57-6	2-Methylnaphthalene	12.	U
208-96-8	Acenaphthylene	4.6	J
83-32-9	Acenaphthene	7.1	J
86-73-7	Fluorene	4.1	J
87-86-5	Pentachlorophenol	24.	U
85-01-8	Phenanthrene	45.	
120-12-7	Anthracene	11.	J
206-44-0	Fluoranthene	70.	
129-00-0	Pyrene	65.	
56-55-3	Benzo(a)anthracene	48.	
218-01-9	Chrysene	53.	
205-99-2	Benzo(b)fluoranthene	68.	
207-08-9	Benzo(k)fluoranthene	17.	
50-32-8	Benzo(a)pyrene	40.	
193-39-5	Indeno(1,2,3-cd)pyrene	38.	
53-70-3	Dibenzo(a,h)anthracene	9.0	J
191-24-2	Benzo(g,h,i)perylene	2.9	J

Quantitation Report

Data File : R:\D\2015\JUL15\16JUL15DPM\DFN20F17.D Vial: 14
Acq On : 07/16/2015 17:50 Operator: DJC
Sample : 1515542017 F9M35 (3) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jul 18 12:34:37 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



Quantitation Report

Data File : R:\D\2015\JUL15\16JUL15DPM\DFN20F17.D Vial: 14
Acq On : 07/16/2015 17:50 Operator: DJC
Sample : 1515542017 F9M35 (3) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 18 12:34:37 2015 Results File: DSOM_SIMJ2.RES

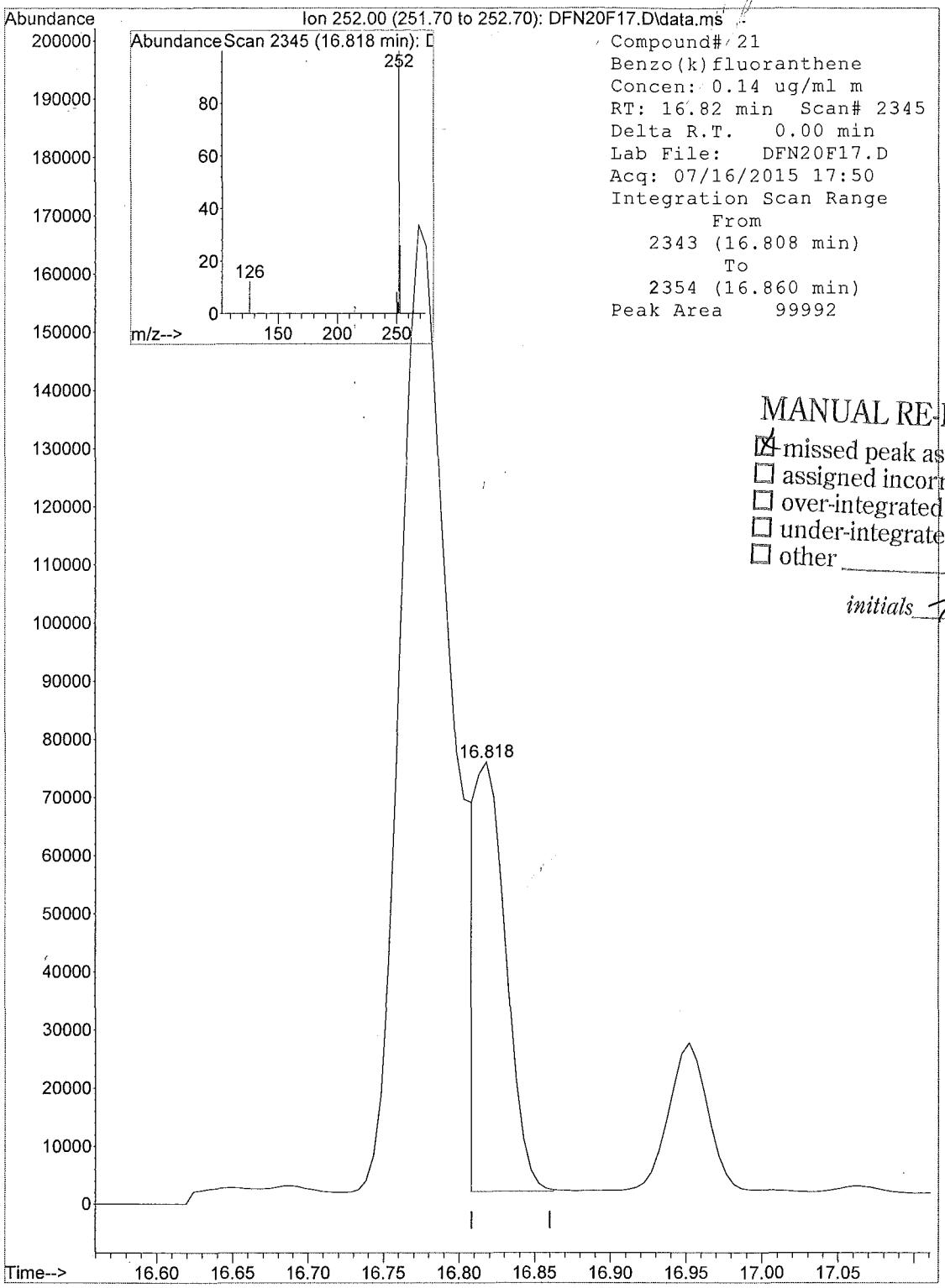
Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.78	136	163099	0.40 ug/ml	
5) Acenaphthene-d10	8.38	164	108565	0.40 ug/ml	
9) Phenanthrene-d10	10.99	188	186087	0.40 ug/ml	
15) Chrysene-d12	15.21	240	209503	0.40 ug/ml	
19) Perylene-d12	17.47	264	219175	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.69	152	27758	0.105ug/mL	
13) Fluoranthene-d10	13.17	212	65169	0.128ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.80	128	10093	0.024ug/ml	94
4) 2-Methylnaphthalene	0.00	142		Not Detected	
6) Acenaphthylene	8.14	152	17945	0.038ug/ml	92
7) Acenaphthene	8.43	153	18003	0.059ug/ml	99
8) Fluorene	9.32	166	11949	0.034ug/ml	96
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.03	178	199313	0.372ug/ml	99
12) Anthracene	11.13	178	47319	0.091ug/ml	97
14) Fluoranthene	13.20	202	353086	0.579ug/ml	91
16) Pyrene	13.55	202	356148	0.542ug/ml	90
17) Benzo(a)anthracene	15.20	228	221700	0.397ug/ml	95
18) Chrysene	15.24	228	259928	0.440ug/ml	94
20) Benzo(b)fluoranthene	16.77	252	383459	0.561ug/ml	99
21) Benzo(k)fluoranthene	16.82	252	99992	0.141ug/ml m 7pm	99 7.18.15
22) Benzo(a)pyrene	17.37	252	218822	0.335ug/ml	98
23) Indeno(1,2,3-c,d)pyrene	20.02	276	178668	0.313ug/ml	100
24) Dibenzo(a,h)anthracene	20.08	278	47280	0.075ug/ml	88
25) Benzo(g,h,i)perylene	20.80	276	15574	0.024ug/ml	57

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

: 00974

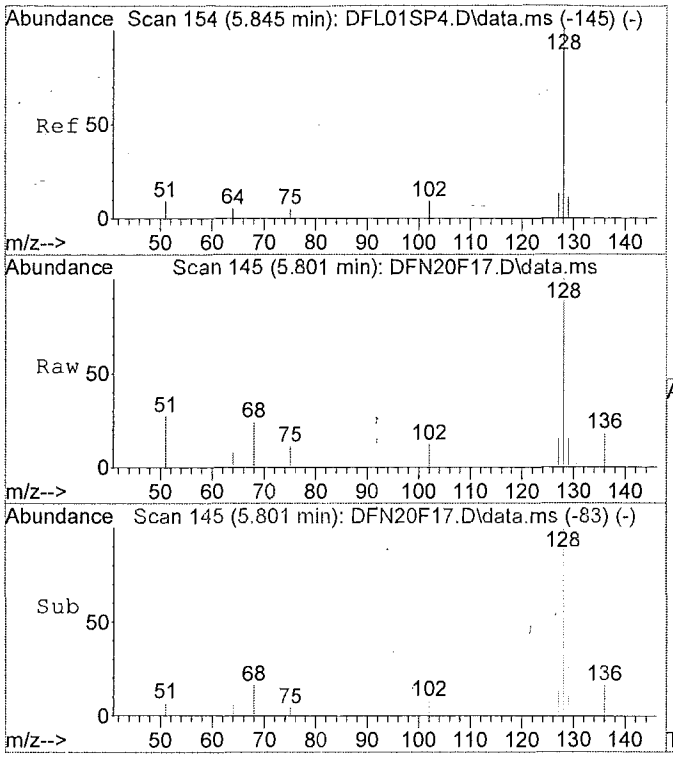
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- ☒ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

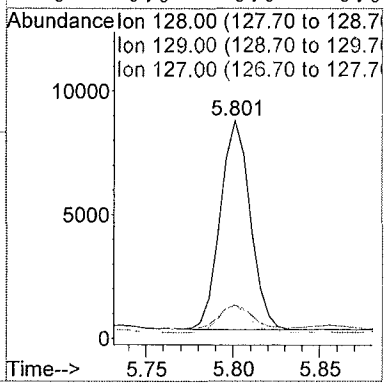
initials TJM *date* 7.18.15

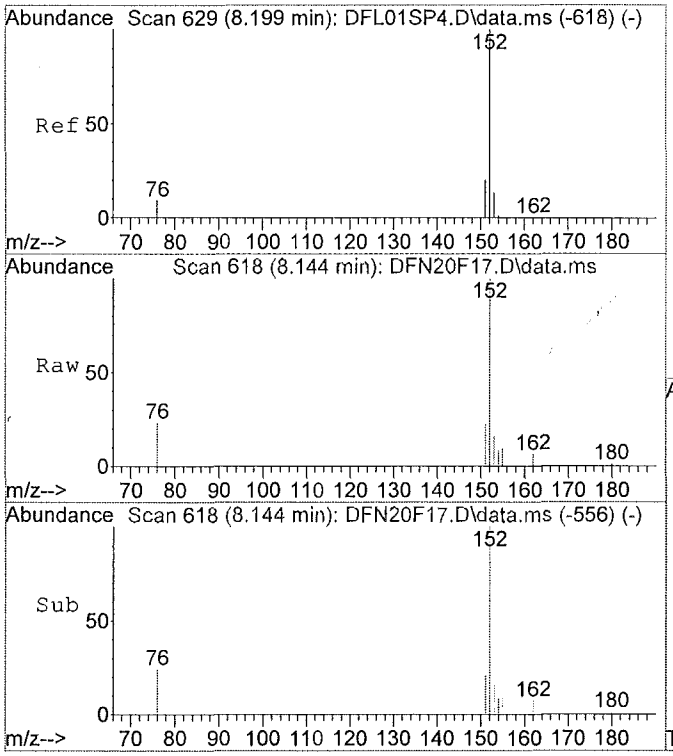


#2
Naphthalene
Concen: 0.02 ug/ml
RT: 5.80 min Scan# 145
Delta R.T. 0.00 min
Lab File: DFN20F17.D
Acq: 07/16/2015 17:50

Tgt Ion:128 Resp: 10093

Ion	Ratio	Lower	Upper
128	100		
129	12.9	0.0	0.0#
127	13.4	11.1	20.5
0	0.0	0.0	0.0

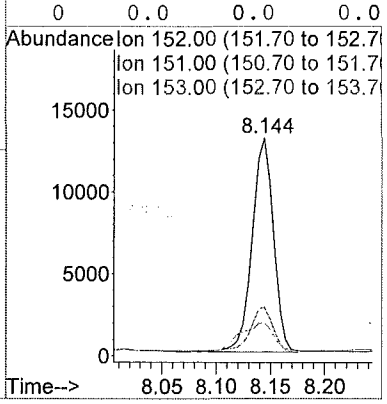


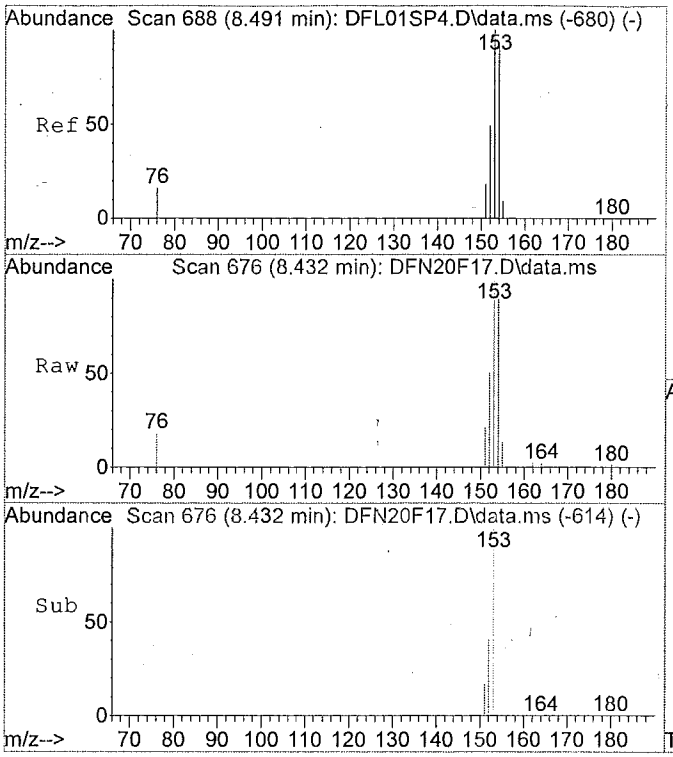


#6
Acenaphthylene
Concen: 0.04 ug/ml
RT: 8.14 min Scan# 618
Delta R.T. 0.00 min
Lab File: DFN20F17.D
Acq: 07/16/2015 17:50

Tgt Ion:152 Resp: 17945

Ion	Ratio	Lower	Upper
152	100		
151	21.8	15.5	28.7
153	21.3	8.8	16.4#
0	0.0	0.0	0.0

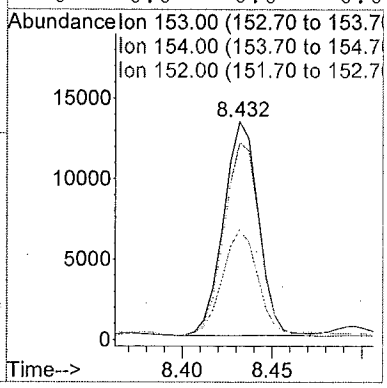


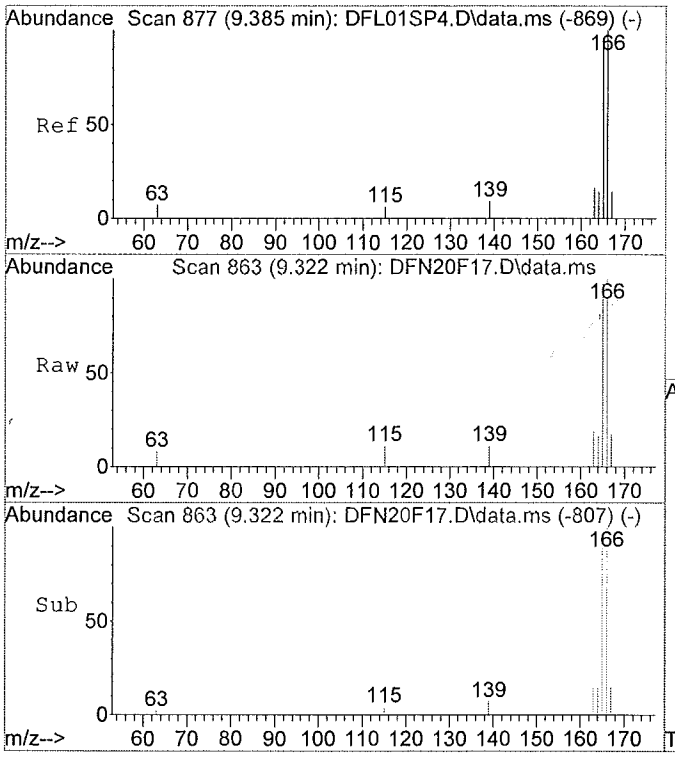


#7
Acenaphthene
Concen: 0.06 ug/ml
RT: 8.43 min Scan# 676
Delta R.T. 0.00 min
Lab File: DFN20F17.D
Acq: 07/16/2015 17:50

Tgt Ion:153 Resp: 18003

Ion	Ratio	Lower	Upper
153	100		
154	92.4	65.1	120.9
152	51.1	35.2	65.4
0	0.0	0.0	0.0

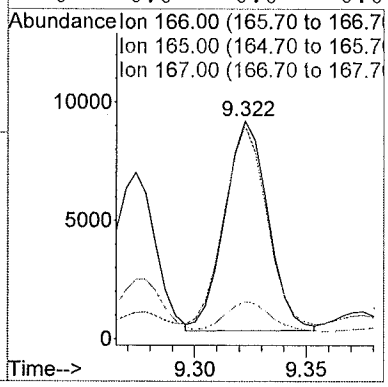


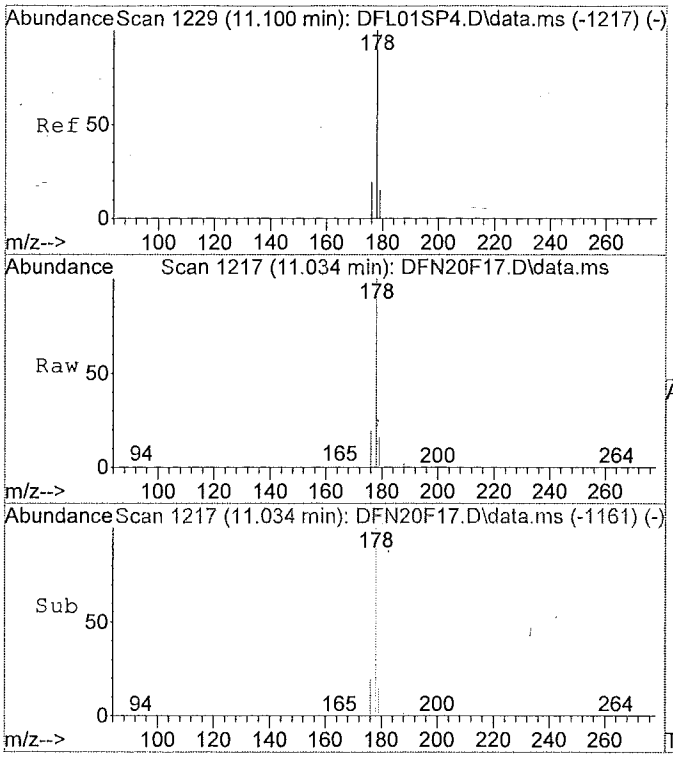


#8
Fluorene
Concen: 0.03 ug/ml
RT: 9.32 min Scan# 863
Delta R.T. 0.00 min
Lab File: DFN20F17.D
Acq: 07/16/2015 17:50

Tgt Ion:166 Resp: 11949

Ion	Ratio	Lower	Upper
166	100		
165	91.1	66.3	123.1
167	15.0	0.0	0.0#
0	0.0	0.0	0.0

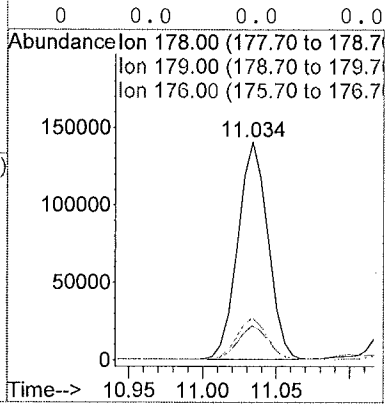


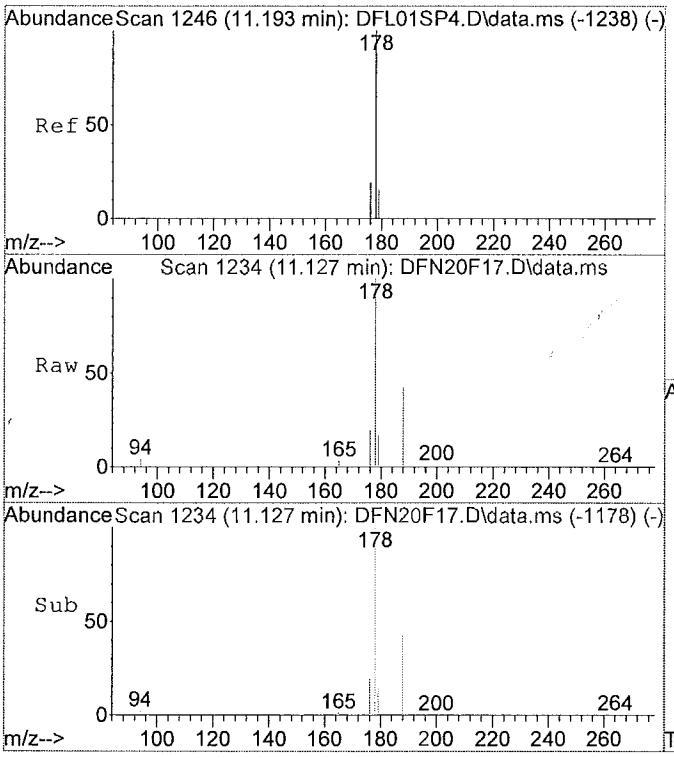


#11
Phenanthrene
Concen: 0.37 ug/ml
RT: 11.03 min Scan# 1217
Delta R.T. 0.01 min
Lab File: DFN20F17.D
Acq: 07/16/2015 17:50

Tgt Ion:178 Resp: 199313

Ion	Ratio	Lower	Upper
178	100		
179	15.5	11.1	20.5
176	19.3	14.1	26.1
0	0.0	0.0	0.0

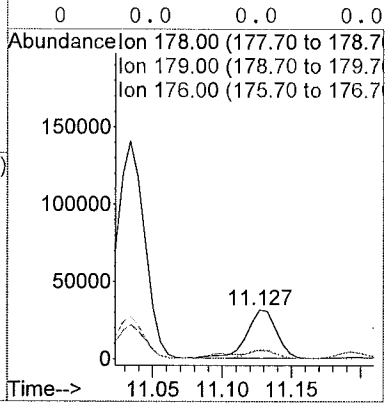


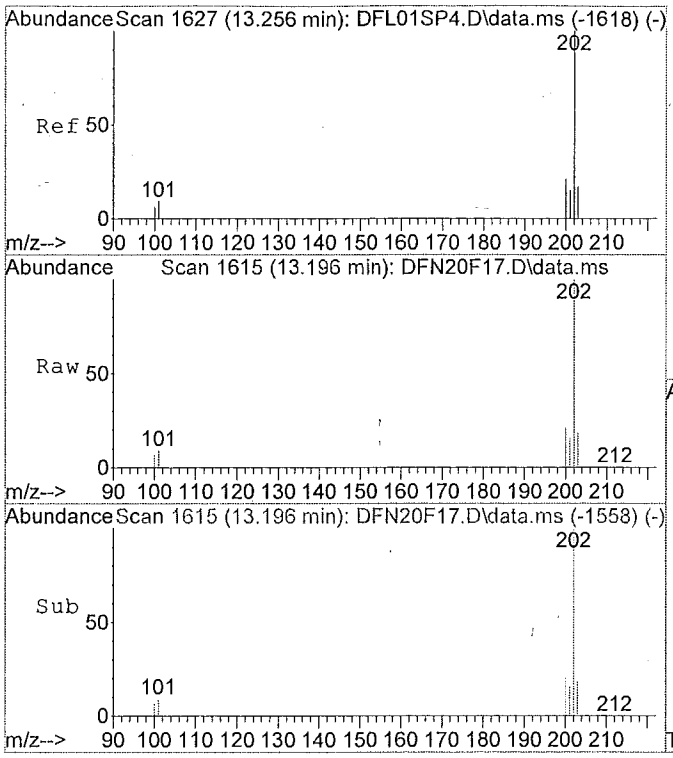


#12
Anthracene
Concen: 0.09 ug/ml
RT: 11.13 min Scan# 1234
Delta R.T. 0.01 min
Lab File: DFN20F17.D
Acq: 07/16/2015 17:50

Tgt Ion:178 Resp: 47319

Ion	Ratio	Lower	Upper
178	100		
179	15.1	11.6	21.6
176	18.3	13.9	25.7
0	0.0	0.0	0.0

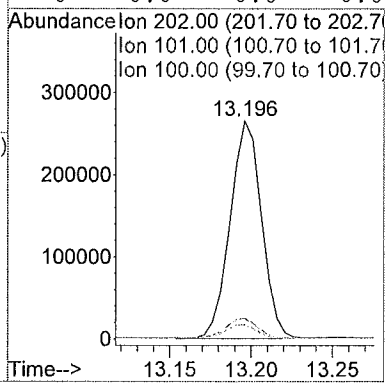


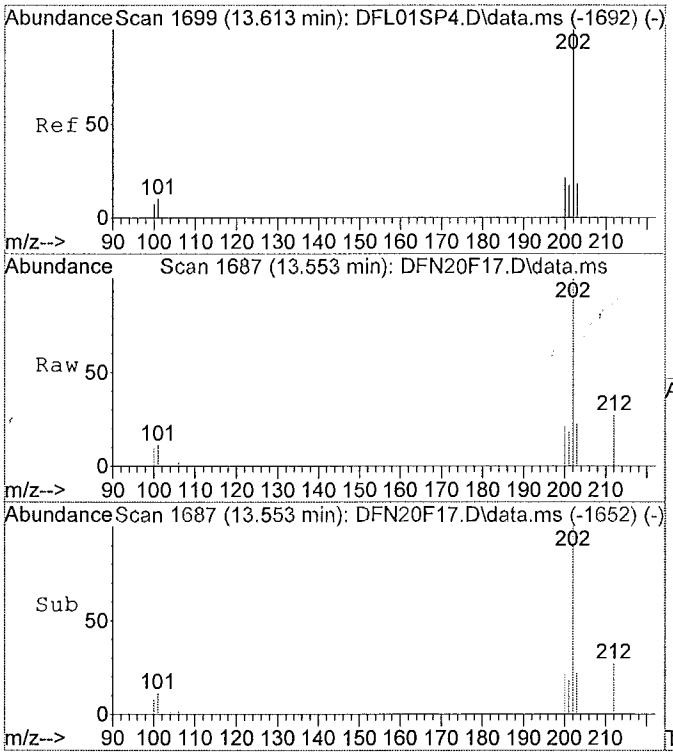


#14
Fluoranthene
Concen: 0.58 ug/ml
RT: 13.20 min Scan# 1615
Delta R.T. 0.00 min
Lab File: DFN20F17.D
Acq: 07/16/2015 17:50

Tgt Ion:202 Resp: 353086

Ion	Ratio	Lower	Upper
202	100		
101	9.7	9.4	17.6
100	6.9	0.0	0.0#
0	0.0	0.0	0.0

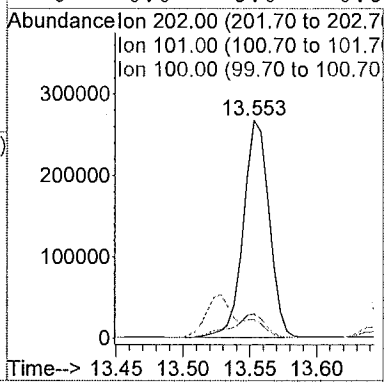


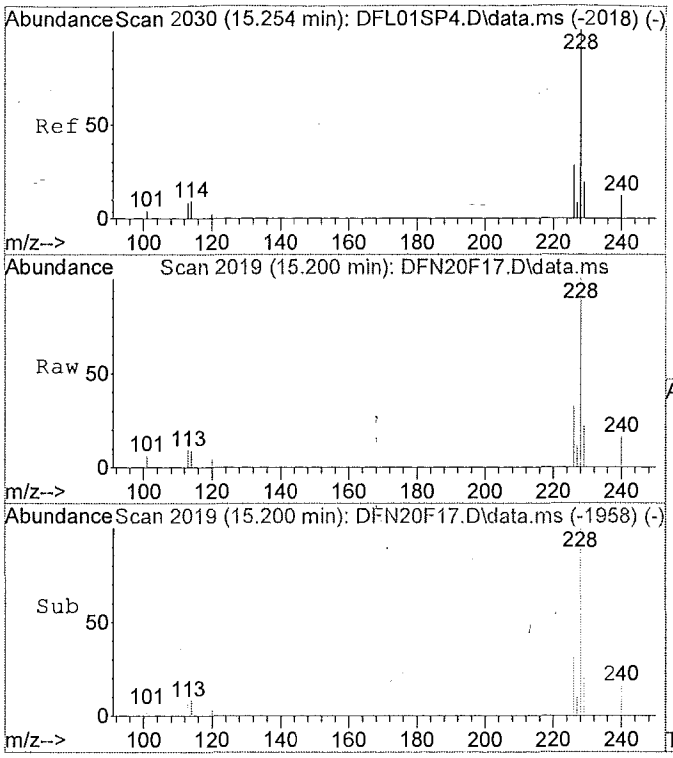


#16
Pyrene
Concen: 0.54 ug/ml
RT: 13.55 min Scan# 1687
Delta R.T. 0.00 min
Lab File: DFN20F17.D
Acq: 07/16/2015 17:50

Tgt Ion:202 Resp: 356148

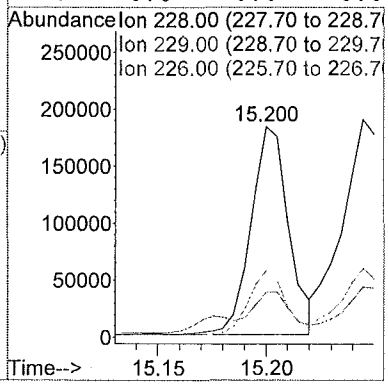
Ion	Ratio	Lower	Upper
202	100		
101	14.1	10.6	19.6
100	20.7	9.4	17.4#
0	0.0	0.0	0.0

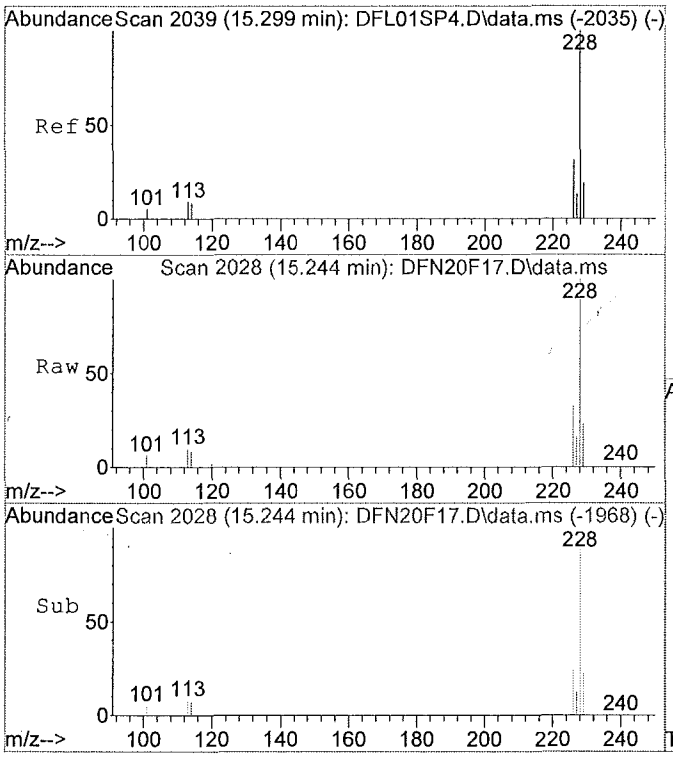




#17
Benzo(a)anthracene
Concen: 0.40 ug/ml
RT: 15.20 min Scan# 2019
Delta R.T. 0.00 min
Lab File: DFN20F17.D
Acq: 07/16/2015 17:50

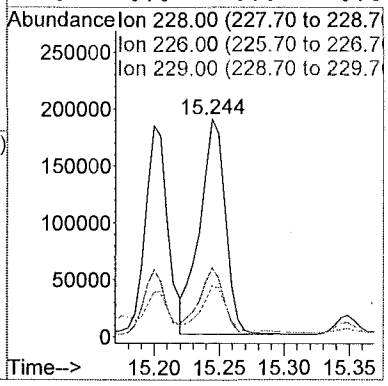
Tgt Ion:228	Resp:	221700	
Ion	Ratio	Lower	Upper
228	100		
229	20.5	14.5	26.9
226	31.2	18.5	34.3
0	0.0	0.0	0.0

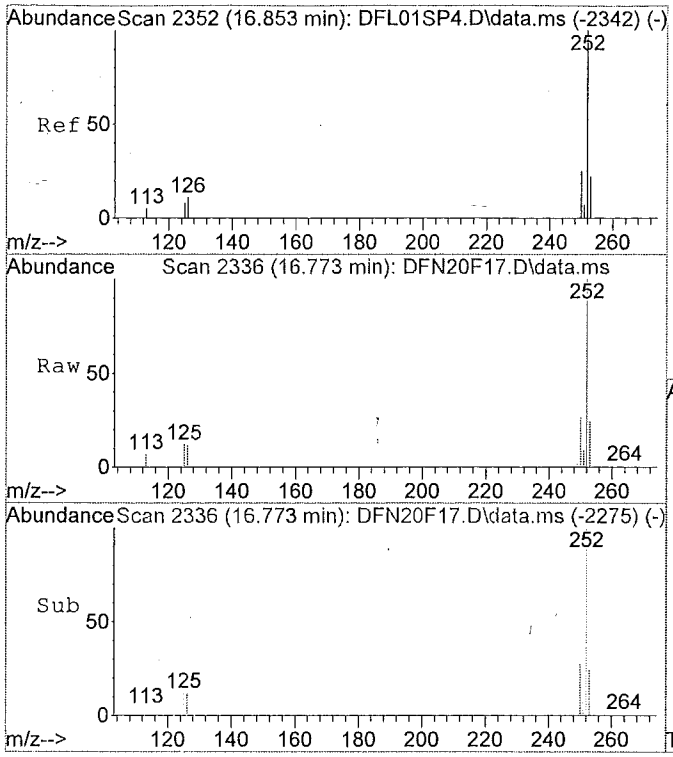




#18
Chrysene
Concen: 0.44 ug/ml
RT: 15.24 min Scan# 2028
Delta R.T. 0.00 min
Lab File: DFN20F17.D
Acq: 07/16/2015 17:50

Tgt Ion:228	Resp:	259928	
Ion	Ratio	Lower	Upper
228	100		
226	31.0	19.7	36.7
229	23.5	14.5	26.9
0	0.0	0.0	0.0

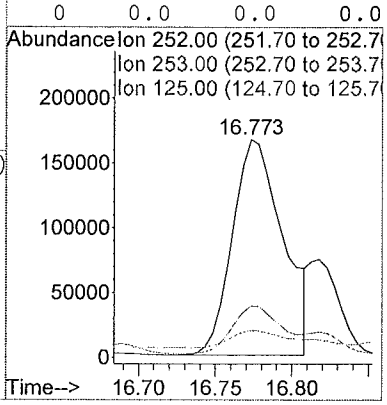


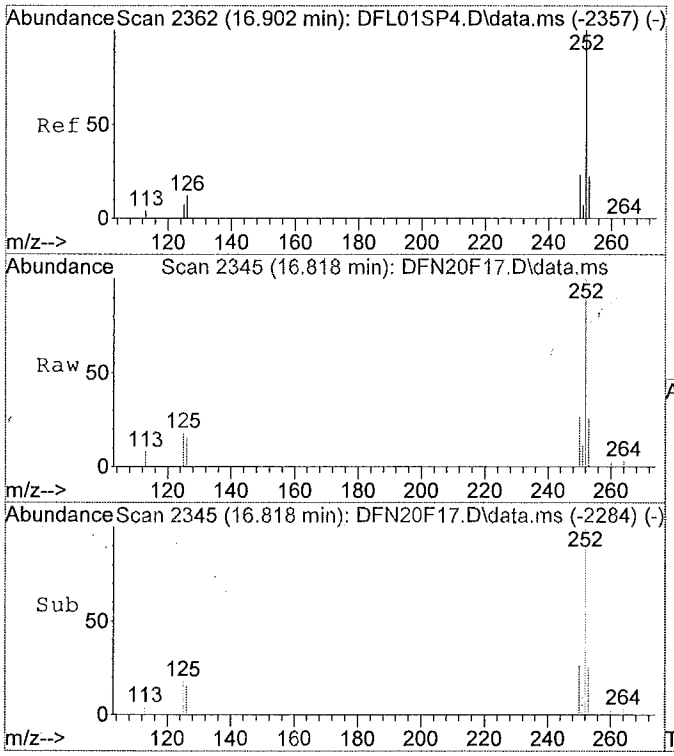


#20
Benzo(b)fluoranthene
Concen: 0.56 ug/ml
RT: 16.77 min Scan# 2336
Delta R.T. 0.01 min
Lab File: DFN20F17.D
Acq: 07/16/2015 17:50

Tgt Ion:252 Resp: 383459

Ion	Ratio	Lower	Upper
252	100		
253	21.1	15.3	28.3
125	10.8	0.0	0.0#
0	0.0	0.0	0.0

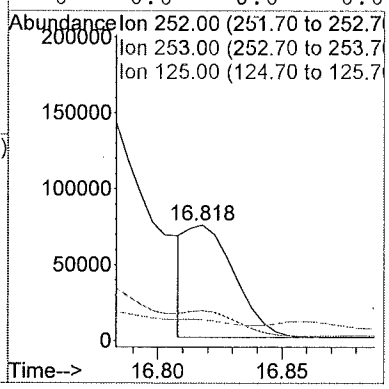


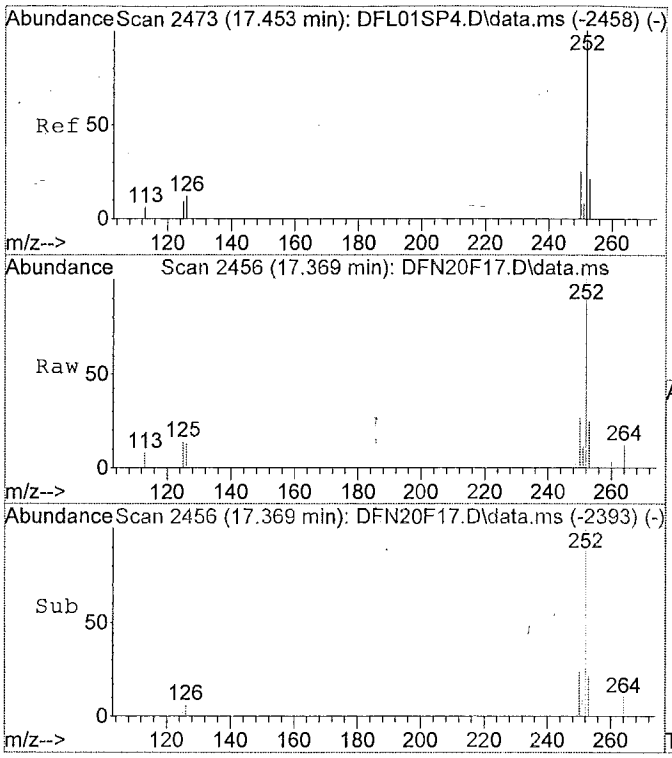


#21
Benzo(k)fluoranthene
Concen: 0.14 ug/ml m
RT: 16.82 min Scan# 2345
Delta R.T. 0.00 min
Lab File: DFN20F17.D
Acq: 07/16/2015 17:50

Tgt Ion:252 Resp: 99992

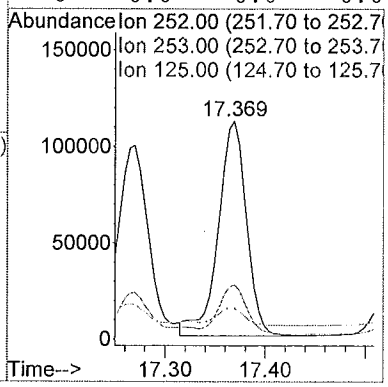
Ion	Ratio	Lower	Upper
252	100		
253	81.1	15.0	27.8#
125	41.4	0.0	0.0#
0	0.0	0.0	0.0

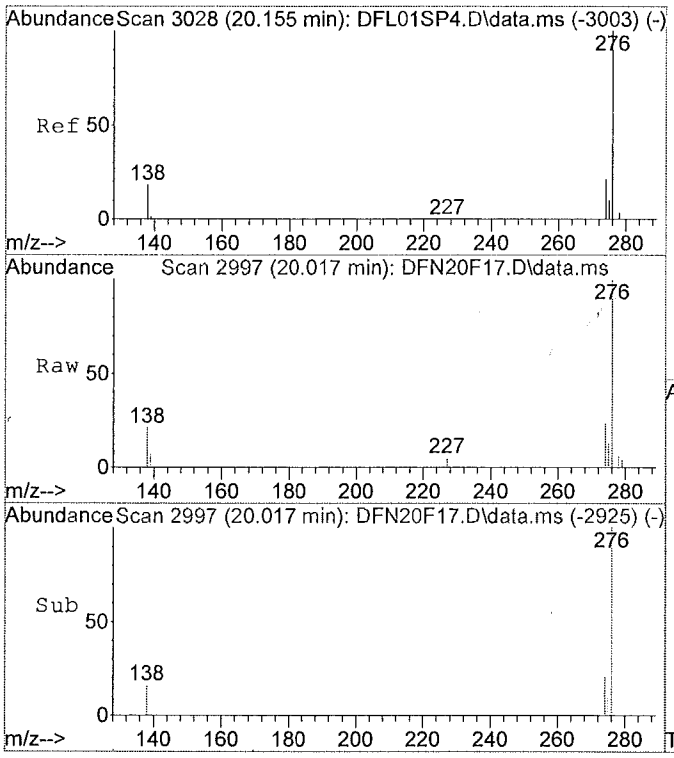




#22
Benzo(a)pyrene
Concen: 0.34 ug/ml
RT: 17.37 min Scan# 2456
Delta R.T. 0.01 min
Lab File: DFN20F17.D
Acq: 07/16/2015 17:50

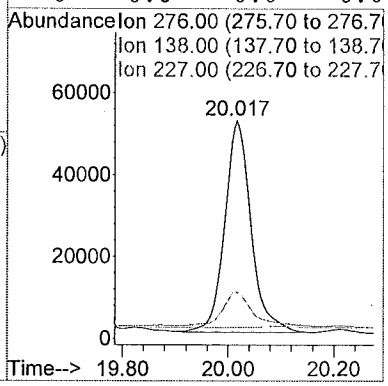
Tgt Ion:252	Resp:	218822	
Ion	Ratio	Lower	Upper
252	100		
253	22.5	15.0	27.8
125	8.2	0.0	0.0#
0	0.0	0.0	0.0

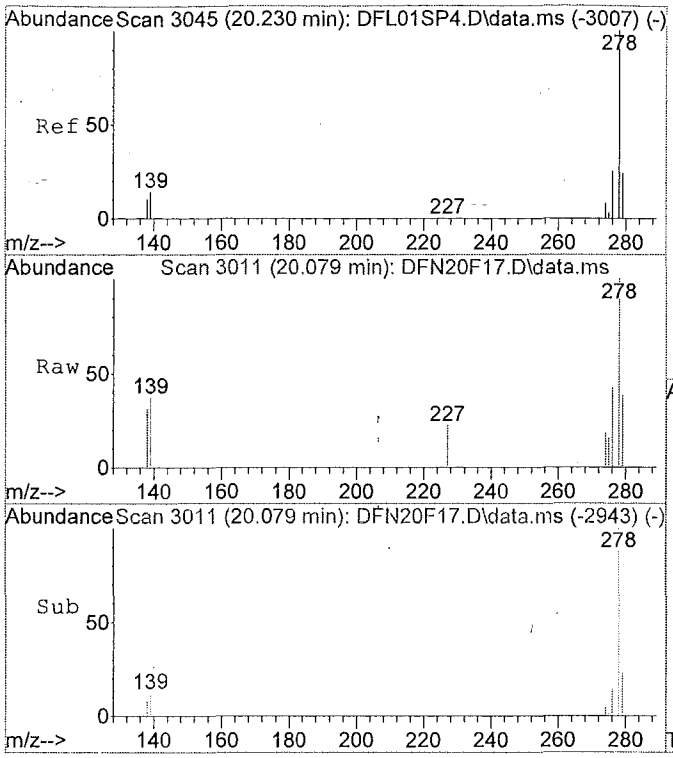




#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.31 ug/ml
RT: 20.02 min Scan# 2997
Delta R.T. 0.02 min
Lab File: DFN20F17.D
Acq: 07/16/2015 17:50

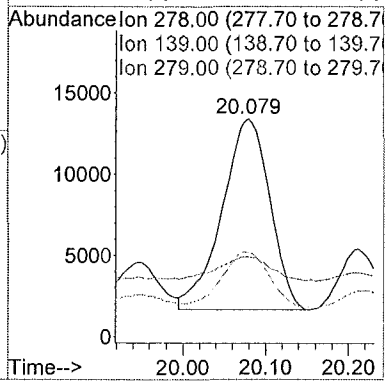
Tgt Ion:276	Resp:	178668	
Ion	Ratio	Lower	Upper
276	100		
138	19.1	0.0	0.0#
227	0.2	0.0	0.0#
0	0.0	0.0	0.0

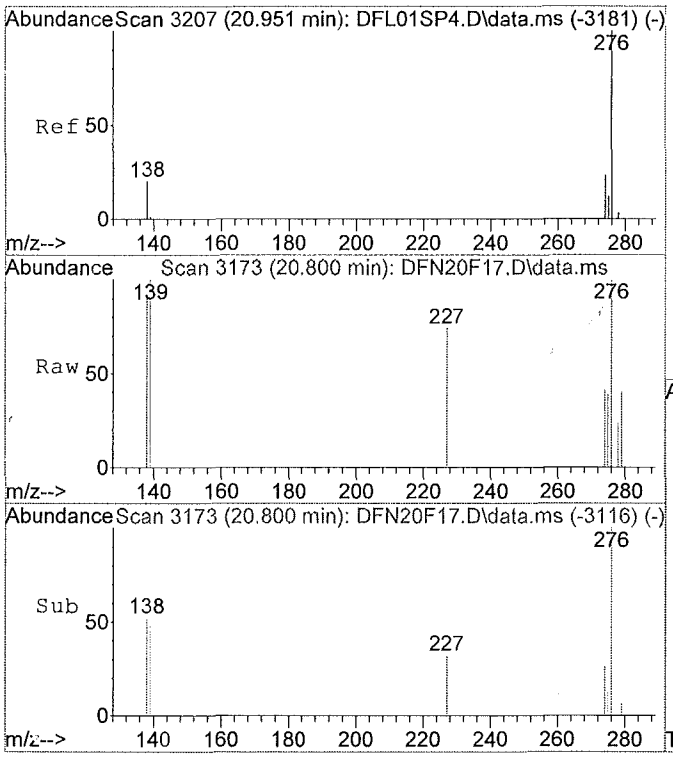




#24
Dibenzo(a,h)anthracene
Concen: 0.07 ug/ml
RT: 20.08 min Scan# 3011
Delta R.T. 0.00 min
Lab File: DFN20F17.D
Acq: 07/16/2015 17:50

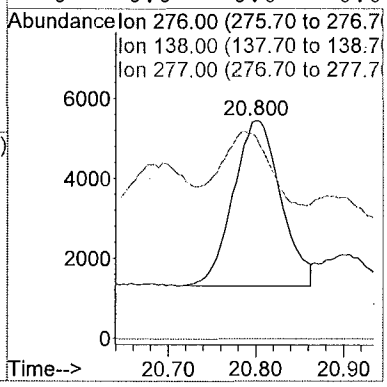
Tgt Ion:278	Resp:	47280	
Ion	Ratio	Lower	Upper
278	100		
139	13.4	0.0	0.0#
279	28.1	15.8	29.3
0	0.0	0.0	0.0





#25
Benzo(g,h,i)perylene
Concen: 0.02 ug/ml
RT: 20.80 min Scan# 3173
Delta R.T. 0.02 min
Lab File: DFN20F17.D
Acq: 07/16/2015 17:50

Tgt Ion:276	Resp:	15574	
Ion	Ratio	Lower	Upper
276	100		
138	41.2	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.

F9M37

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DGB22F18

Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/16/2015

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 20.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	76.	U
91-57-6	2-Methylnaphthalene	76.	U
208-96-8	Acenaphthylene	84.	
83-32-9	Acenaphthene	76.	U
86-73-7	Fluorene	76.	U
87-86-5	Pentachlorophenol	150	U
85-01-8	Phenanthrene	86.	
120-12-7	Anthracene	66.	J
206-44-0	Fluoranthene	340	
129-00-0	Pyrene	340	
56-55-3	Benzo(a)anthracene	250	
218-01-9	Chrysene	250	
205-99-2	Benzo(b)fluoranthene	410	
207-08-9	Benzo(k)fluoranthene	120	
50-32-8	Benzo(a)pyrene	210	
193-39-5	Indeno(1,2,3-cd)pyrene	230	
53-70-3	Dibenzo(a,h)anthracene	47.	J
191-24-2	Benzo(g,h,i)perylene	46.	J

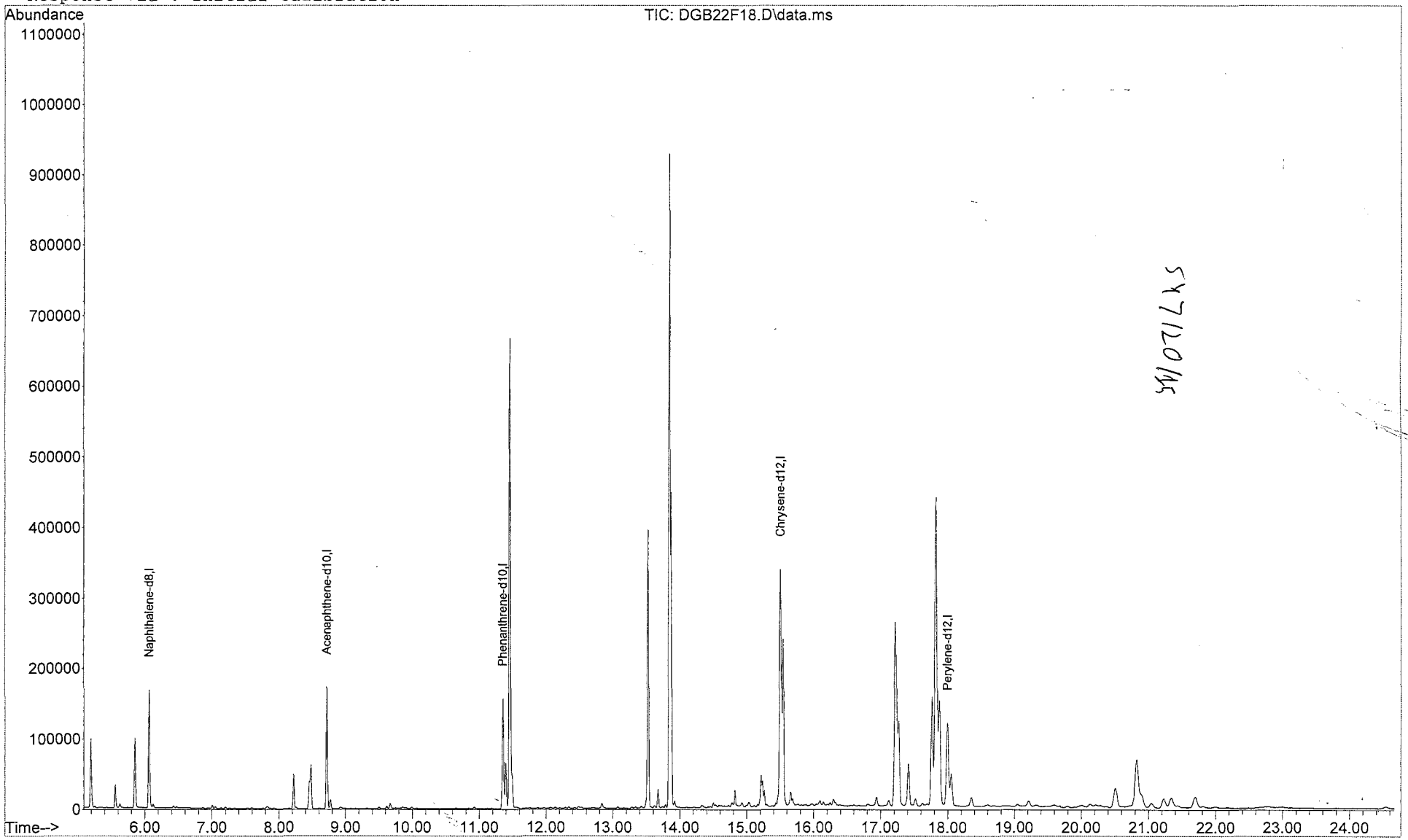
Quantitation Report

Data File : R:\D\2015\JUN15\15JUN15\DGB22F18.D
Acq On : 06/16/2015 01:00
Sample : 1515542018 F9M37 (20)
Misc : . X6-19-15
MS Integration Params: rteint.p

Vial: 19
Operator: SY
Inst : 5975-D
Injection volume : 1uL

Quant Time: Jun 16 01:25:05 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

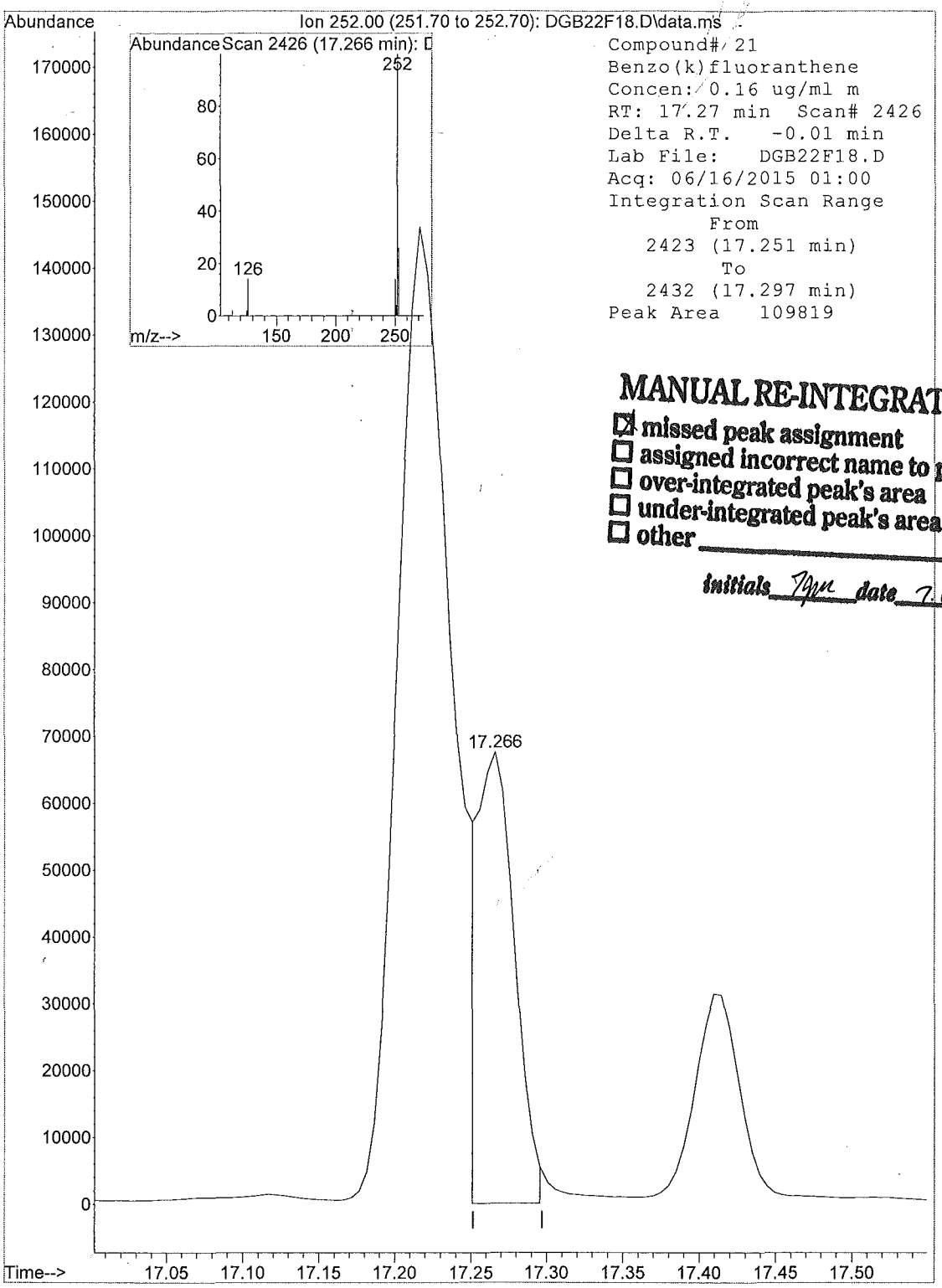
Data File : R:\D\2015\JUN15\15JUN15\15JUN15\DGB22F18.D Vial: 19
Acq On : 06/16/2015 01:00 Operator: SY
Sample : 1515542018 F9M37 (20) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 17 15:06:47 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.06	136	186946	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	119323	0.40 ug/ml	
9) Phenanthrene-d10	11.35	188	209492	0.40 ug/ml	
15) Chrysene-d12	15.51	240	226056	0.40 ug/ml	
19) Perylene-d12	18.00	264	217200	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.00	152	5364	0.018ug/mL	
13) Fluoranthene-d10	13.42	212	866	0.002ug/mL	
Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	0.00	142		Not Detected	
6) Acenaphthylene	8.48	152	56775	0.109ug/ml	97
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.40	178	67019	0.111ug/ml	99
12) Anthracene	11.49	178	50036	0.085ug/ml	98
14) Fluoranthene	13.52	202	305996	0.446ug/ml	89
16) Pyrene	13.87	202	314481	0.443ug/ml	93
17) Benzo(a)anthracene	15.49	228	193395	0.321ug/ml	89
18) Chrysene	15.54	228	205444	0.323ug/ml	95
20) Benzo(b)fluoranthene	17.22	252	357178	0.528ug/ml	99
21) Benzo(k)fluoranthene	17.27	252	109819	0.157ug/ml m	99 7.18.15
22) Benzo(a)pyrene	17.87	252	177640	0.275ug/ml	96
23) Indeno(1,2,3-c,d)pyrene	20.82	276	170435	0.301ug/ml	100
24) Dibenzo(a,h)anthracene	20.89	278	38418	0.061ug/ml	91
25) Benzo(g,h,i)perylene	21.70	276	37911	0.060ug/ml	75

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

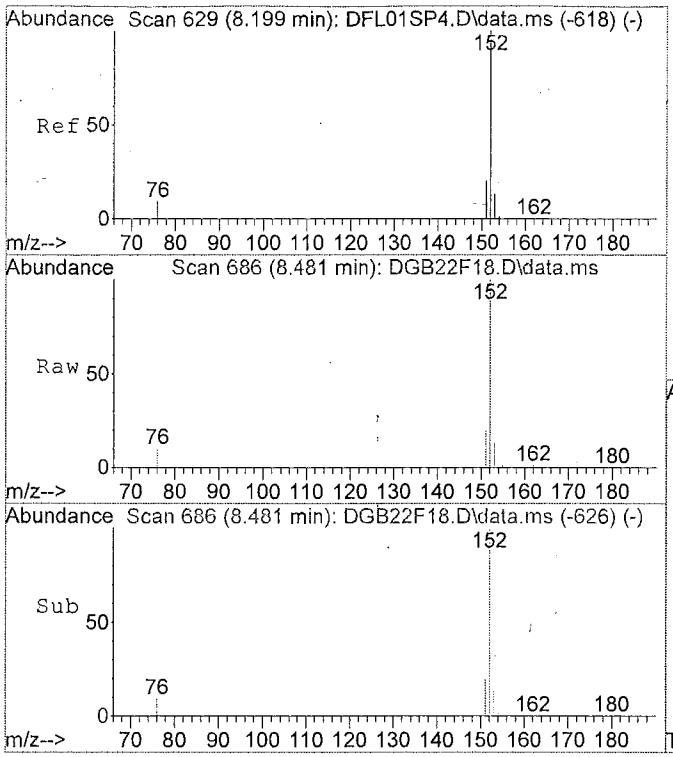
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- ☒ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

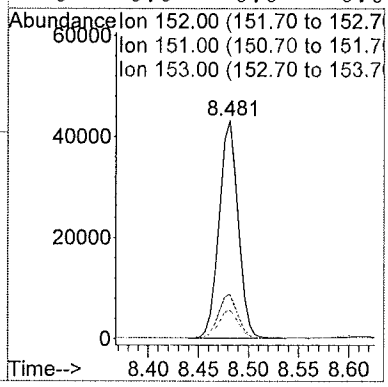
initials Jyn *date* 7.18.15

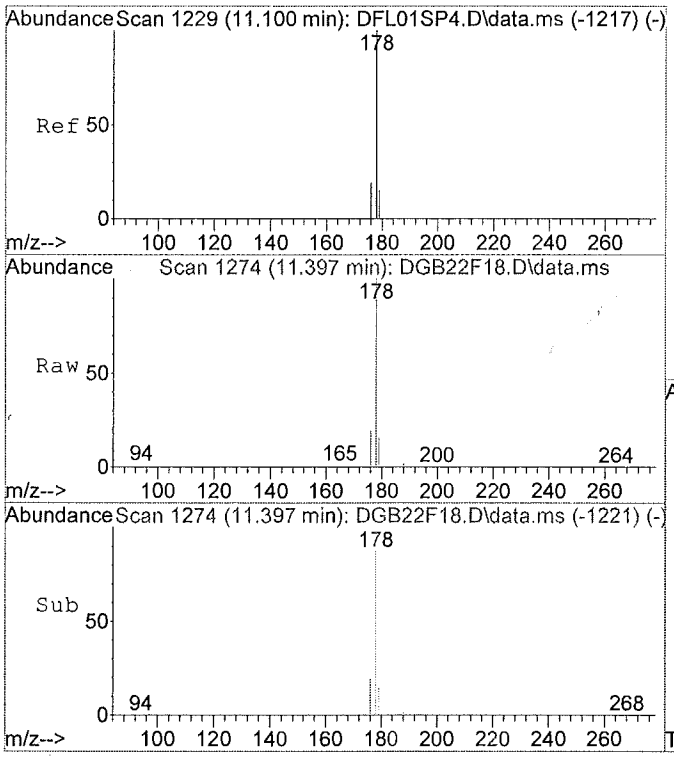


#6
Acenaphthylene
Concen: 0.11 ug/ml
RT: 8.48 min Scan# 686
Delta R.T. -0.00 min
Lab File: DGB22F18.D
Acq: 06/16/2015 01:00

Tgt Ion:152 Resp: 56775

Ion	Ratio	Lower	Upper
152	100		
151	20.3	15.5	28.7
153	13.4	8.8	16.4
0	0.0	0.0	0.0

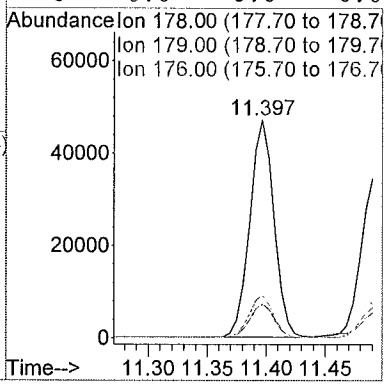


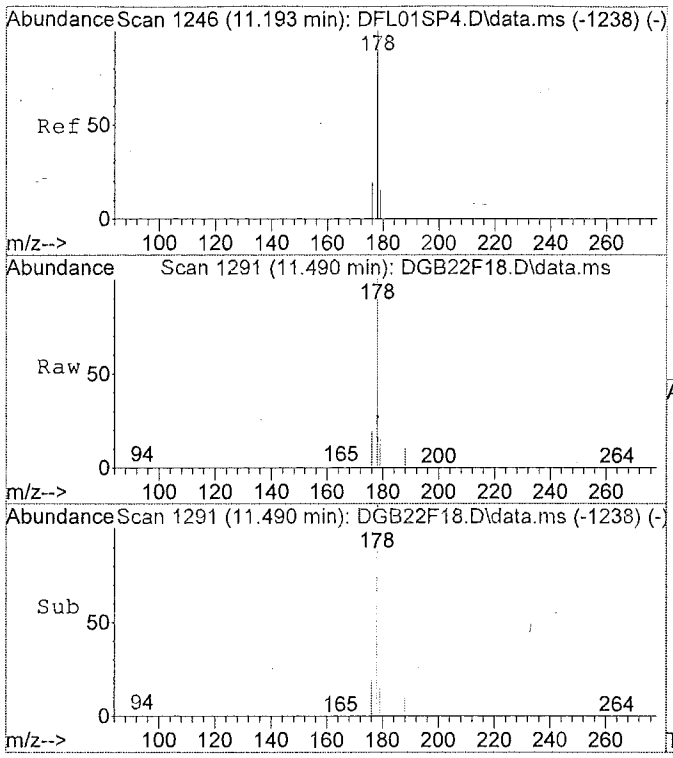


#11
Phenanthrene
Concen: 0.11 ug/ml
RT: 11.40 min Scan# 1274
Delta R.T. -0.01 min
Lab File: DGB22F18.D
Acq: 06/16/2015 01:00

Tgt Ion:178 Resp: 67019

Ion	Ratio	Lower	Upper
178	100		
179	15.6	11.1	20.5
176	19.4	14.1	26.1
0	0.0	0.0	0.0

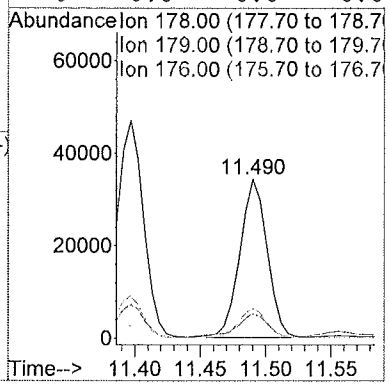


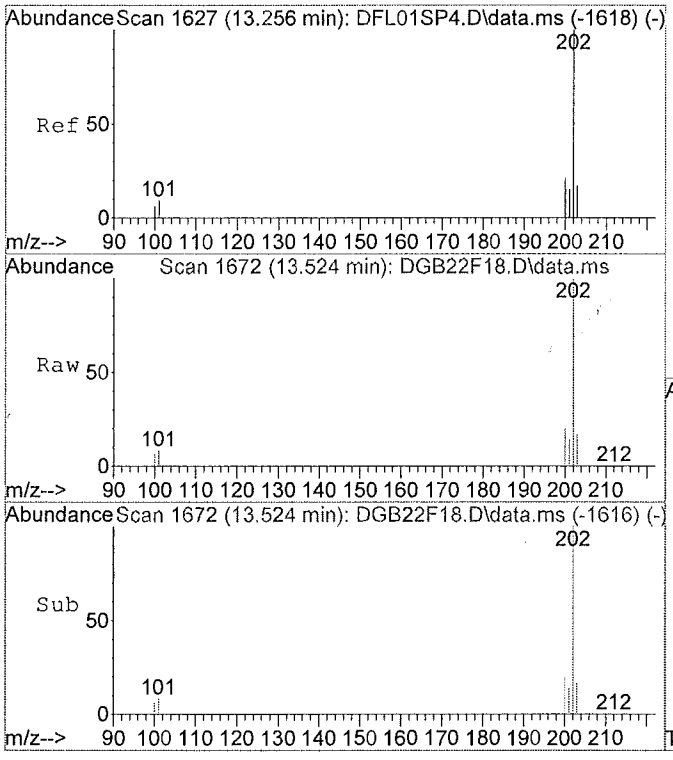


#12
Anthracene
Concen: 0.09 ug/ml
RT: 11.49 min Scan# 1291
Delta R.T. -0.01 min
Lab File: DGB22F18.D
Acq: 06/16/2015 01:00

Tgt Ion:178 Resp: 50036

Ion	Ratio	Lower	Upper
178	100		
179	17.2	11.6	21.6
176	18.5	13.9	25.7
0	0.0	0.0	0.0

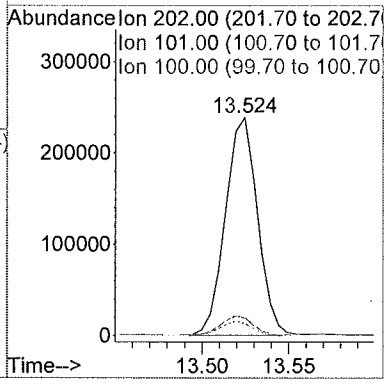


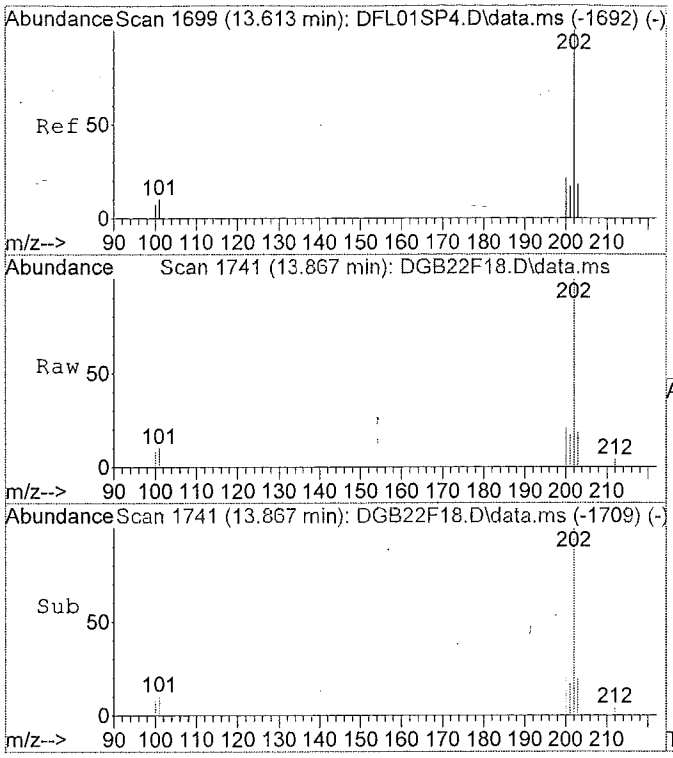


#14
Fluoranthene
Concen: 0.45 ug/ml
RT: 13.52 min Scan# 1672
Delta R.T. -0.01 min
Lab File: DGB22F18.D
Acq: 06/16/2015 01:00

Tgt Ion:202 Resp: 305996

Ion	Ratio	Lower	Upper
202	100		
101	9.1	9.4	17.6#
100	6.5	0.0	0.0#
0	0.0	0.0	0.0

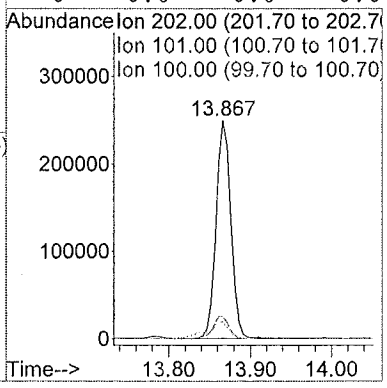


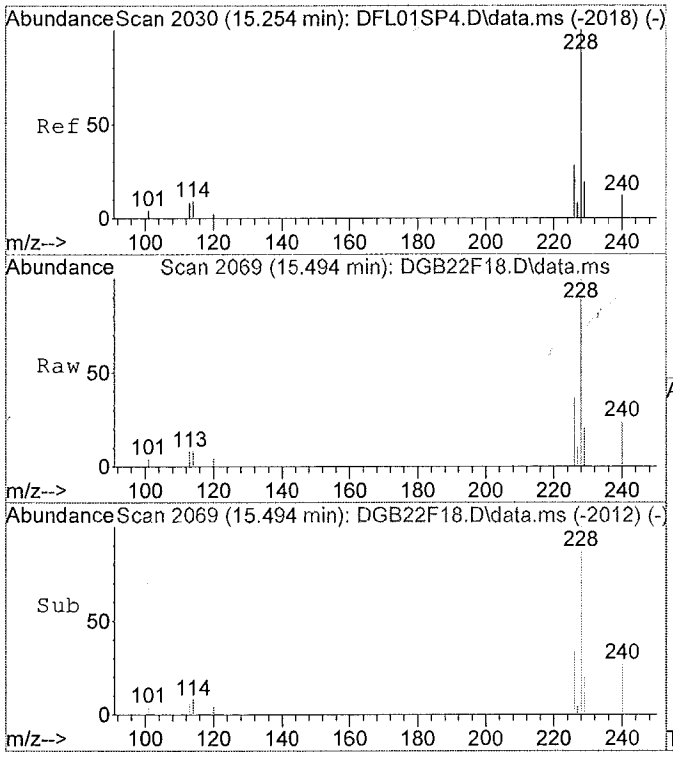


#16
Pyrene
Concen: 0.44 ug/ml
RT: 13.87 min Scan# 1741
Delta R.T. -0.01 min
Lab File: DGB22F18.D
Acq: 06/16/2015 01:00

Tgt Ion:202 Resp: 314481

Ion	Ratio	Lower	Upper
202	100		
101	11.2	10.6	19.6
100	11.3	9.4	17.4
0	0.0	0.0	0.0

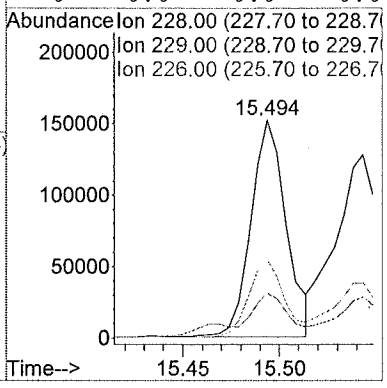


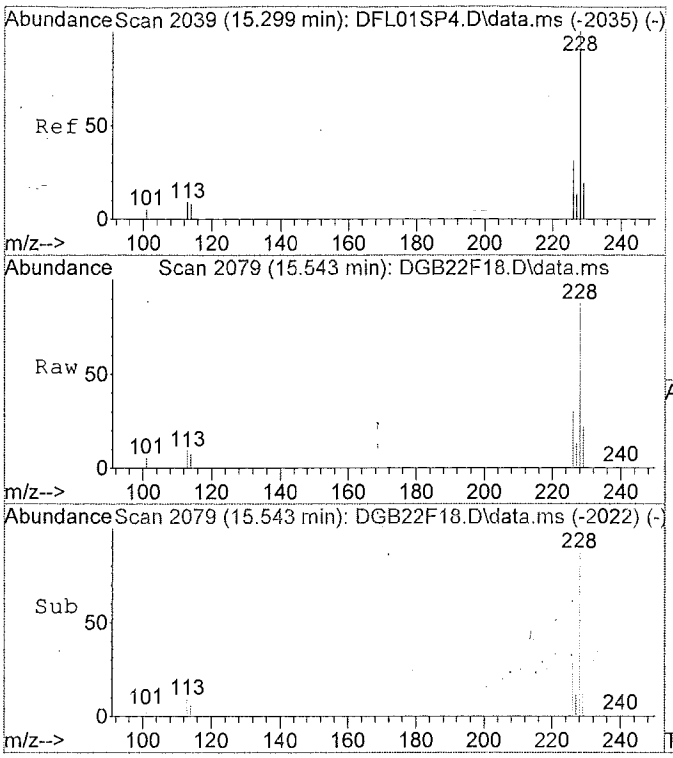


#17
Benzo(a)anthracene
Concen: 0.32 ug/ml
RT: 15.49 min Scan# 2069
Delta R.T. -0.01 min
Lab File: DGB22F18.D
Acq: 06/16/2015 01:00

Tgt Ion:228 Resp: 193395

Ion	Ratio	Lower	Upper
228	100		
229	20.8	14.5	26.9
226	36.1	18.5	34.3#
0	0.0	0.0	0.0

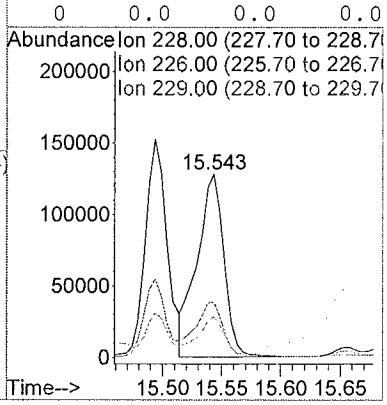


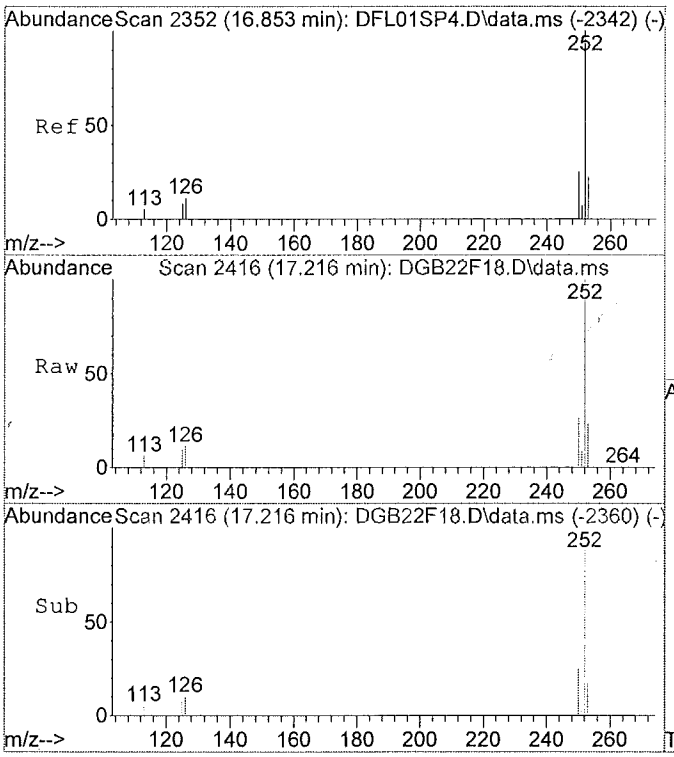


#18
Chrysene
Concen: 0.32 ug/ml
RT: 15.54 min Scan# 2079
Delta R.T. -0.01 min
Lab File: DGB22F18.D
Acq: 06/16/2015 01:00

Tgt Ion:228 Resp: 205444

Ion	Ratio	Lower	Upper
228	100		
226	31.0	19.7	36.7
229	22.5	14.5	26.9
0	0.0	0.0	0.0

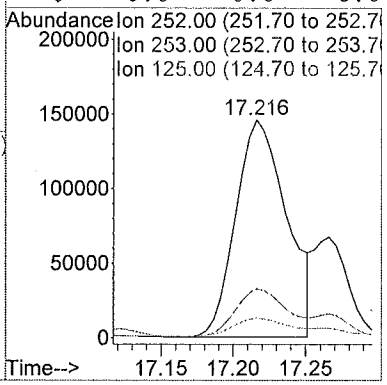


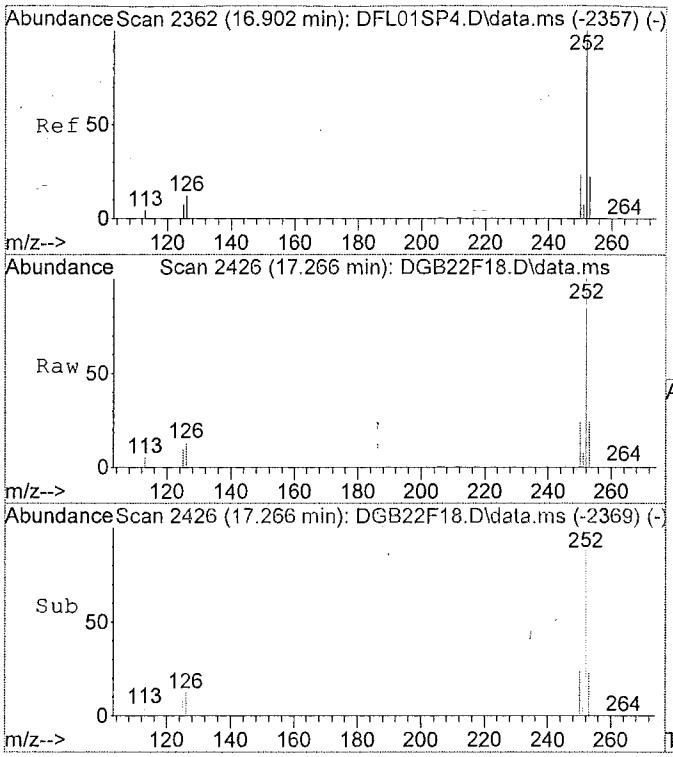


#20
Benzo(b)fluoranthene
Concen: 0.53 ug/ml
RT: 17.22 min Scan# 2416
Delta R.T. -0.01 min
Lab File: DGB22F18.D
Acq: 06/16/2015 01:00

Tgt Ion:252 Resp: 357178

Ion	Ratio	Lower	Upper
252	100		
253	22.1	15.3	28.3
125	9.3	0.0	0.0#
0	0.0	0.0	0.0

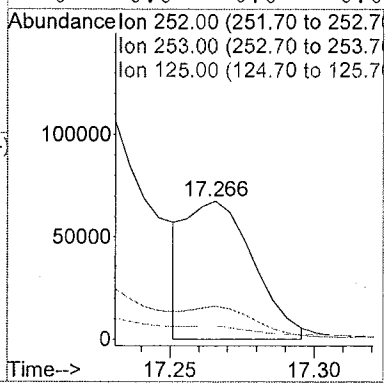


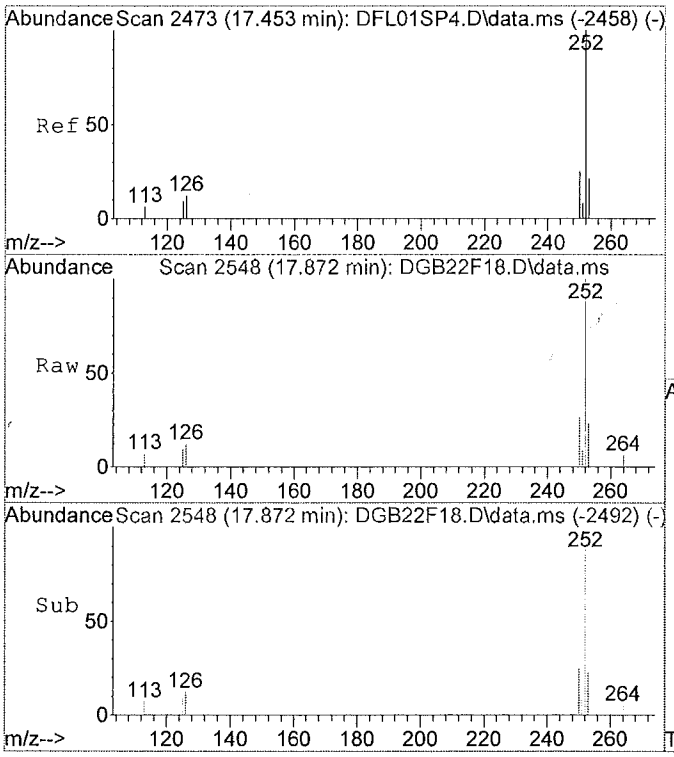


#21
Benzo(k)fluoranthene
Concen: 0.16 ug/ml m
RT: 17.27 min Scan# 2426
Delta R.T. -0.01 min
Lab File: DGB22F18.D
Acq: 06/16/2015 01:00

Tgt Ion:252 Resp: 109819

Ion	Ratio	Lower	Upper
252	100		
253	71.9	15.0	27.8#
125	30.4	0.0	0.0#
0	0.0	0.0	0.0

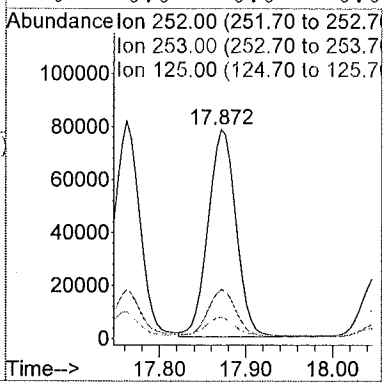


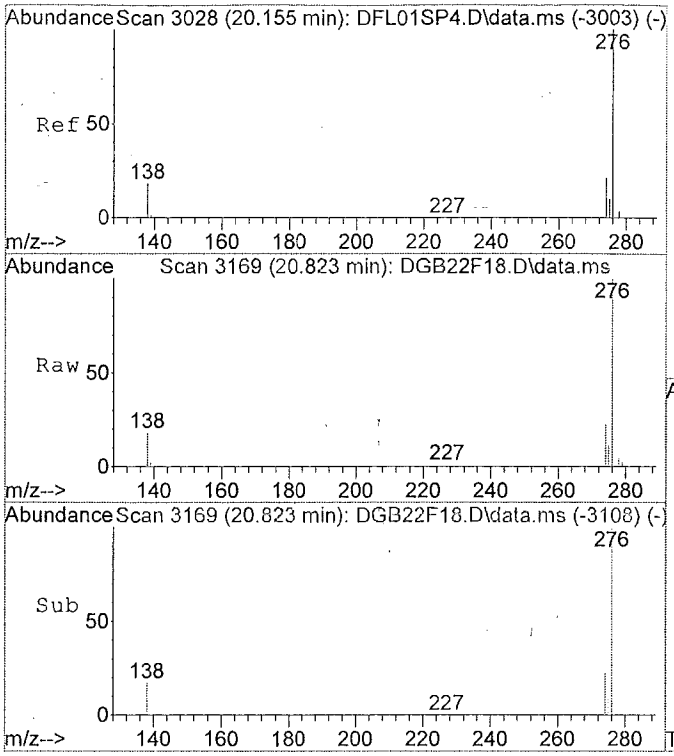


#22
Benzo(a)pyrene
Concen: 0.27 ug/ml
RT: 17.87 min Scan# 2548
Delta R.T. -0.02 min
Lab File: DGB22F18.D
Acq: 06/16/2015 01:00

Tgt Ion:252 Resp: 177640

Ion	Ratio	Lower	Upper
252	100		
253	23.1	15.0	27.8
125	9.1	0.0	0.0#
0	0.0	0.0	0.0

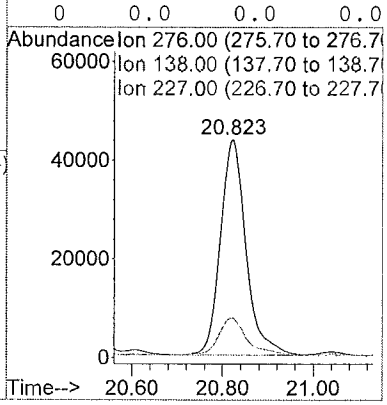


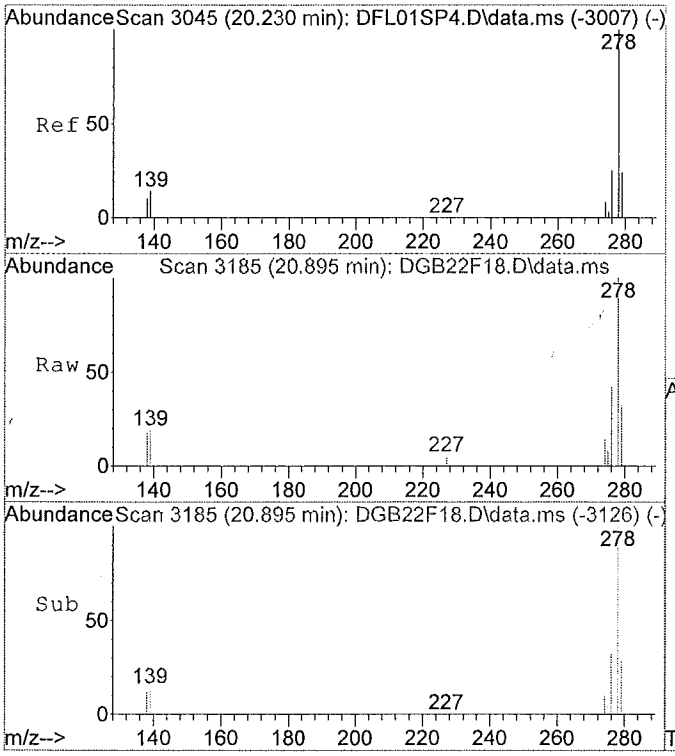


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.30 ug/ml
RT: 20.82 min Scan# 3169
Delta R.T. -0.03 min
Lab File: DGB22F18.D
Acq: 06/16/2015 01:00

Tgt Ion:276 Resp: 170435

Ion	Ratio	Lower	Upper
276	100		
138	19.2	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

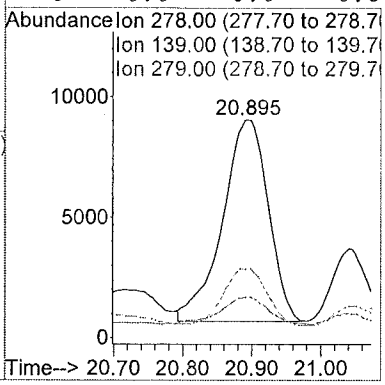


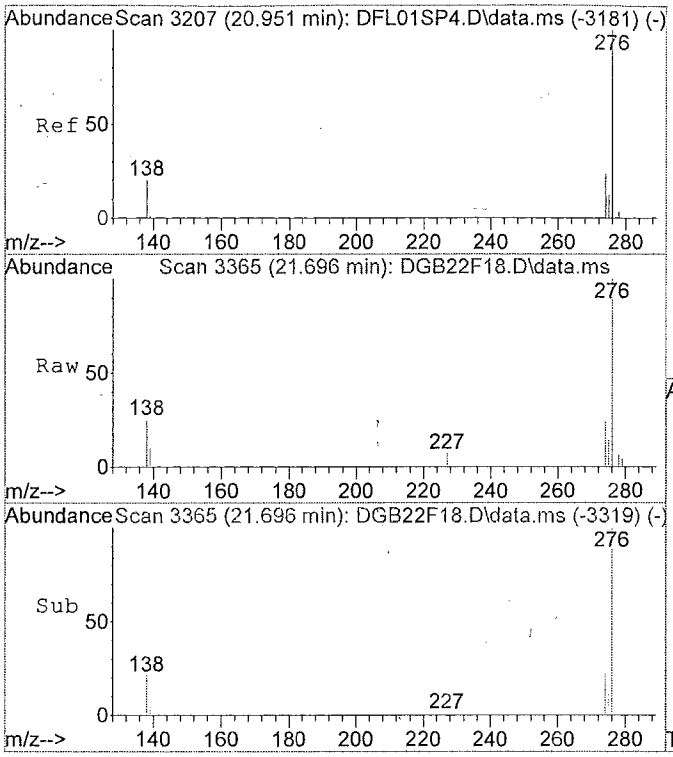


#24
Dibenzo(a,h)anthracene
Concen: 0.06 ug/ml
RT: 20.89 min Scan# 3185
Delta R.T. -0.04 min
Lab File: DGB22F18.D
Acq: 06/16/2015 01:00

Tgt Ion:278 Resp: 38418

Ion	Ratio	Lower	Upper
278	100		
139	14.9	0.0	0.0#
279	26.9	15.8	29.3
0	0.0	0.0	0.0

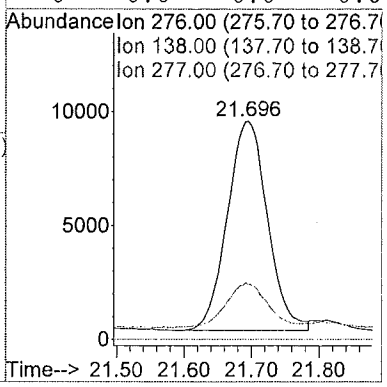




#25
Benzo(g,h,i)perylene
Concen: 0.06 ug/ml
RT: 21.70 min Scan# 3365
Delta R.T. -0.03 min
Lab File: DGB22F18.D
Acq: 06/16/2015 01:00

Tgt Ion:276 Resp: 37911

Ion	Ratio	Lower	Upper
276	100		
138	22.3	16.2	30.0
277	0.0	16.5	30.7#
0	0.0	0.0	0.0



1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M38

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFN21F19

Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/16/2015

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 1.0

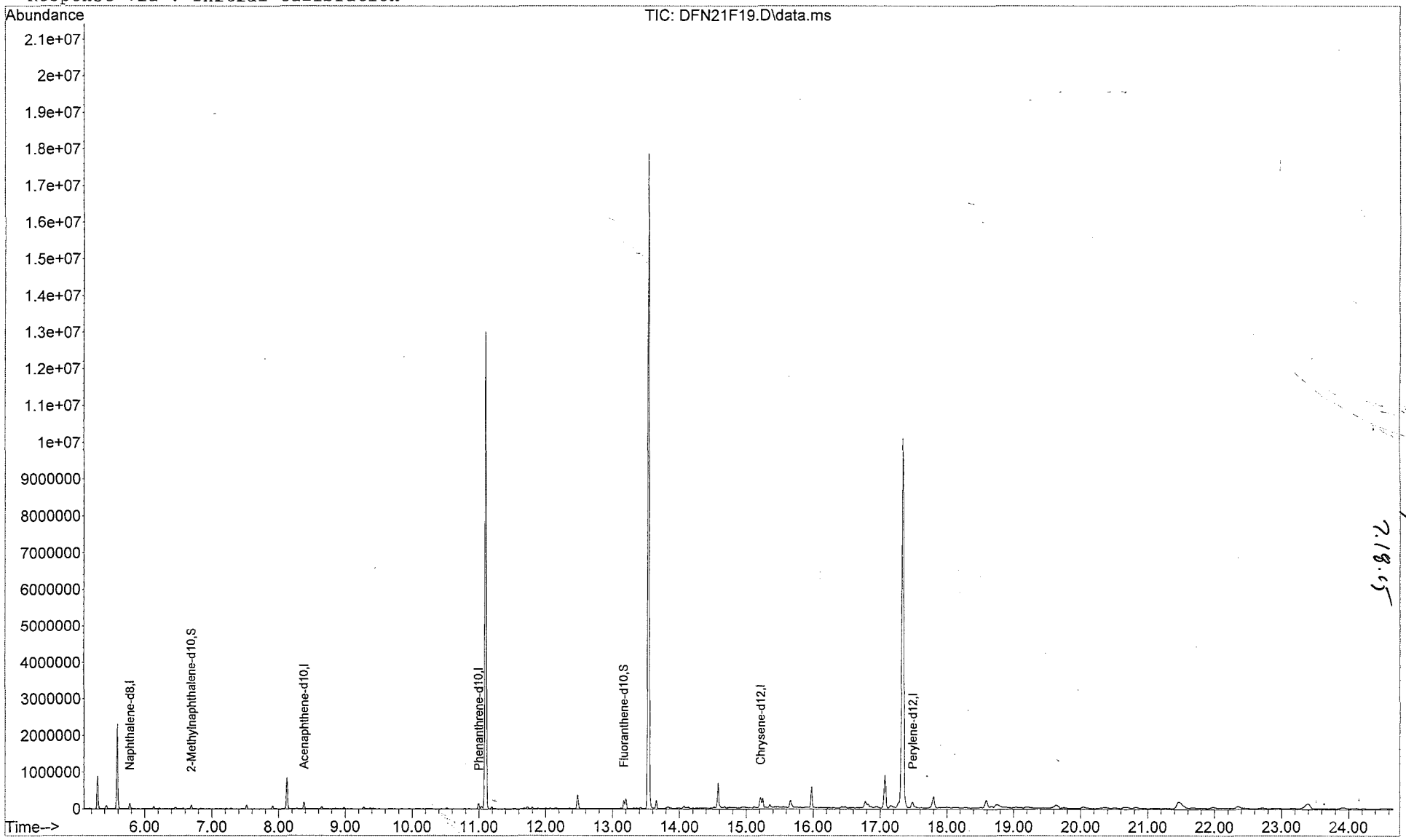
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	0.92	J
91-57-6	2-Methylnaphthalene	3.7	U
208-96-8	Acenaphthylene	1.6	J
83-32-9	Acenaphthene	3.7	U
86-73-7	Fluorene	3.7	U
87-86-5	Pentachlorophenol	7.6	U
85-01-8	Phenanthrene	5.0	
120-12-7	Anthracene	1.7	J
206-44-0	Fluoranthene	10.	
129-00-0	Pyrene	11.	
56-55-3	Benzo(a)anthracene	6.0	
218-01-9	Chrysene	11.	
205-99-2	Benzo(b)fluoranthene	11.	
207-08-9	Benzo(k)fluoranthene	3.0	J
50-32-8	Benzo(a)pyrene	5.4	
193-39-5	Indeno(1,2,3-cd)pyrene	6.2	
53-70-3	Dibenzo(a,h)anthracene	1.5	J
191-24-2	Benzo(g,h,i)perylene	0.89	J

Quantitation Report

Data File : R:\D\2015\JUL15\16JUL15DPM\DFN21F19.D Vial: 15
Acq On : 07/16/2015 18:20 Operator: DJC
Sample : 1515542019 F9M38 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jul 18 12:35:23 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



7.18.15

Quantitation Report

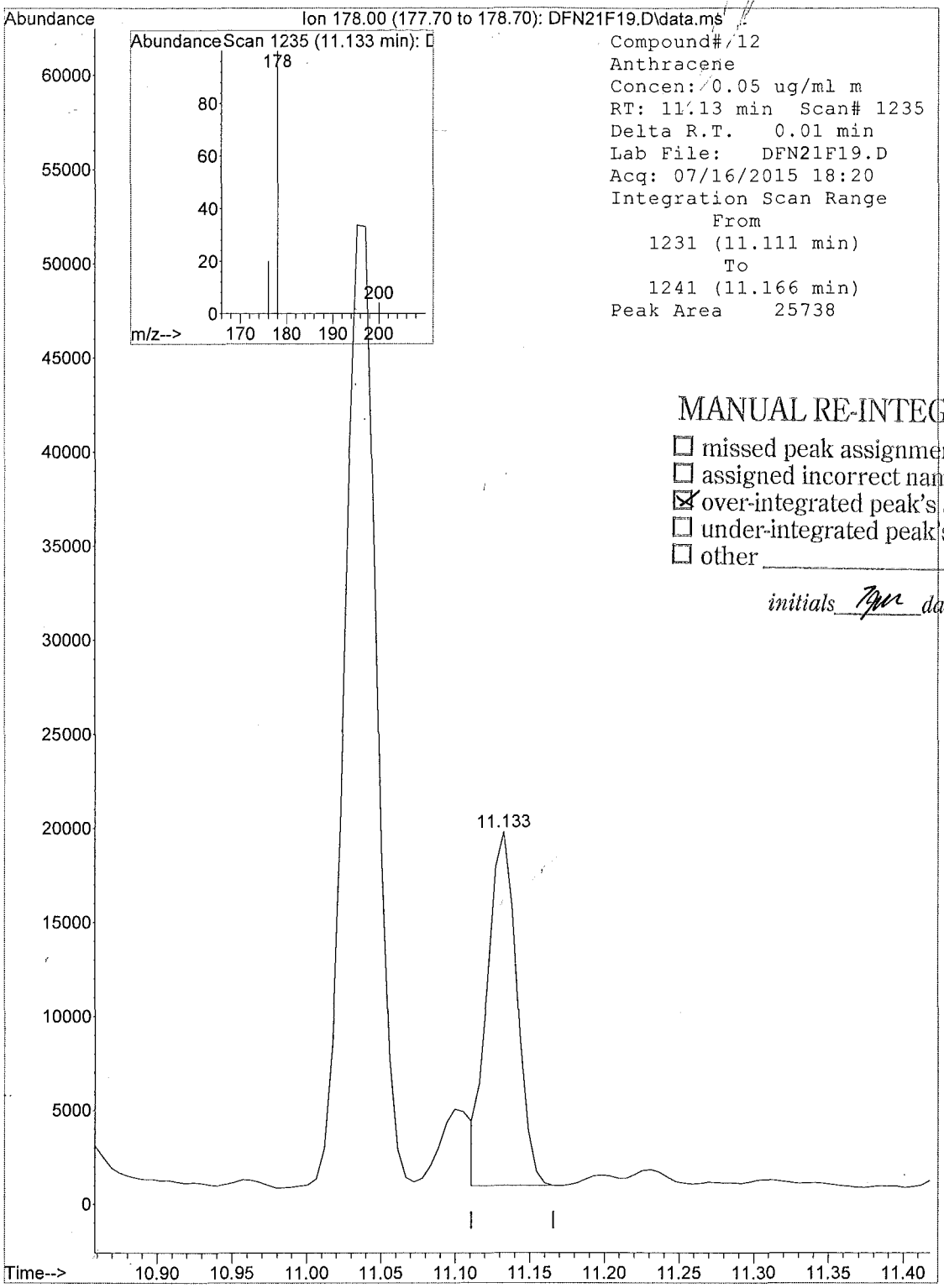
Data File : R:\D\2015\JUL15\16JUL15DPM\DFN21F19.D Vial: 15
Acq On : 07/16/2015 18:20 Operator: DJC
Sample : 1515542019 F9M38 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 18 12:35:23 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		
1) Naphthalene-d8	5.78	136	172048	0.40	ug/ml		
5) Acenaphthene-d10	8.38	164	125207	0.40	ug/ml		
9) Phenanthrene-d10	11.00	188	200117	0.40	ug/ml		
15) Chrysene-d12	15.21	240	232468	0.40	ug/ml		
19) Perylene-d12	17.48	264	244206	0.40	ug/ml		
System Monitoring Compounds							
3) 2-Methylnaphthalene-d10	6.69	152	107798	0.388	ug/mL		
13) Fluoranthene-d10	13.17	212	230543	0.42	lug/mL		
Target Compounds							Qvalue
2) Naphthalene	5.80	128	10953	0.024	ug/ml		90
4) 2-Methylnaphthalene	0.00	142		Not Detected			
6) Acenaphthylene	8.14	152	23291	0.043	ug/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	76999	0.134	ug/ml		99
12) Anthracene	11.13	178	25738	0.046	ug/ml	m	77 7.13.15
14) Fluoranthene	13.20	202	182368	0.278	ug/ml		74
16) Pyrene	13.56	202	212642	0.292	ug/ml		1
17) Benzo(a)anthracene	15.20	228	98346	0.159	ug/ml		84
18) Chrysene	15.25	228	192050	0.293	ug/ml		95
20) Benzo(b)fluoranthene	16.78	252	219743	0.289	ug/ml		99
21) Benzo(k)fluoranthene	16.82	252	62092	0.079	ug/ml	m	98 7.18.15
22) Benzo(a)pyrene	17.37	252	104707	0.144	ug/ml		91
23) Indeno(1,2,3-c,d)pyrene	20.03	276	104407	0.164	ug/ml		100
24) Dibenzo(a,h)anthracene	20.10	278	28069	0.040	ug/ml		92
25) Benzo(g,h,i)perylene	20.84	276	16876	0.024	ug/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 Anthracene

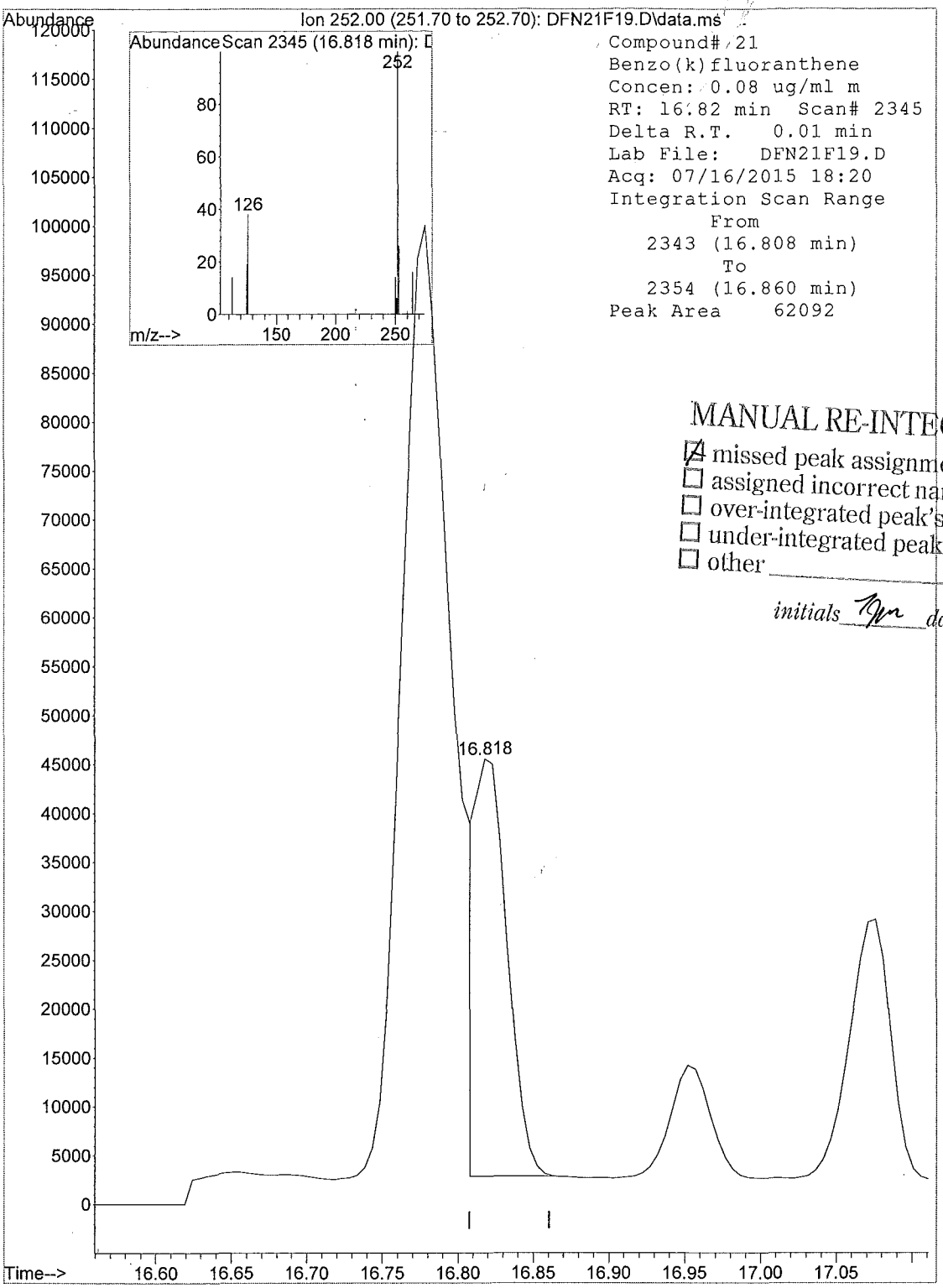


MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☒ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials TJM *date* 7.18.5

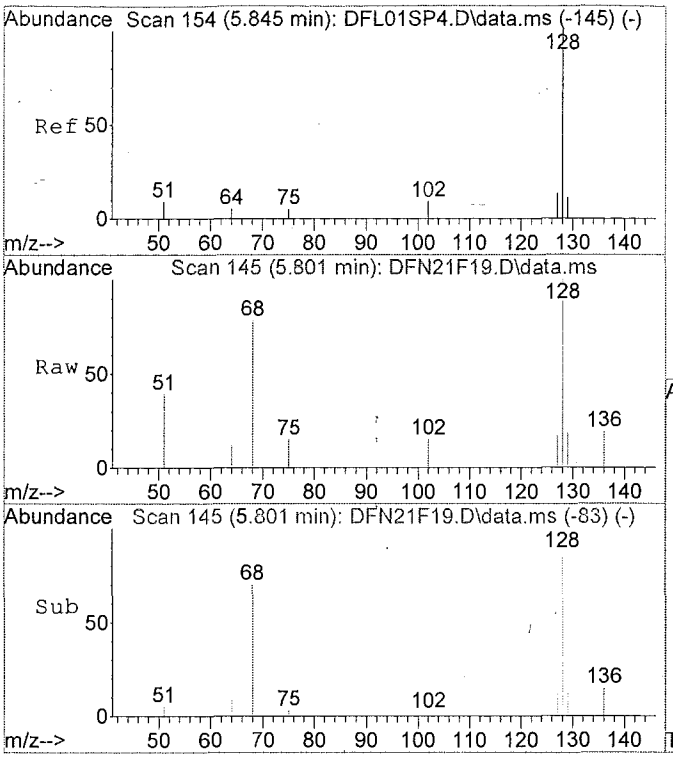
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

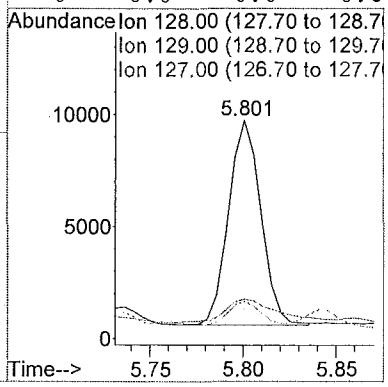
- [x] missed peak assignment
- [ ] assigned incorrect name to peak
- [ ] over-integrated peak's area
- [ ] under-integrated peak's area
- [ ] other _____

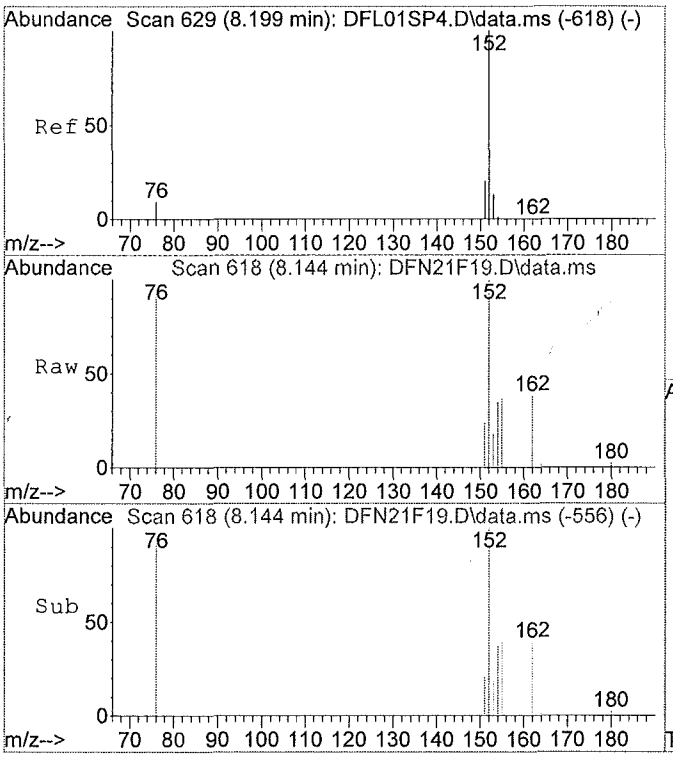
initials TJM *date* 7.18.5



#2
Naphthalene
Concen: 0.02 ug/ml
RT: 5.80 min Scan# 145
Delta R.T. 0.01 min
Lab File: DFN21F19.D
Acq: 07/16/2015 18:20

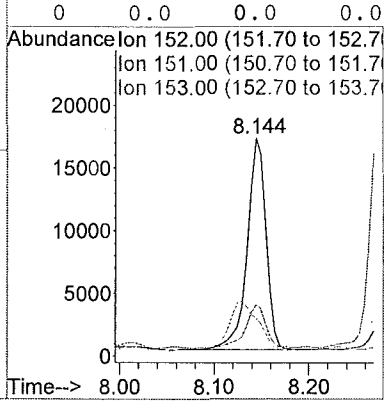
Tgt Ion:128	Resp:	10953	
Ion	Ratio	Lower	Upper
128	100		
129	18.6	0.0	0.0#
127	11.6	11.1	20.5
0	0.0	0.0	0.0

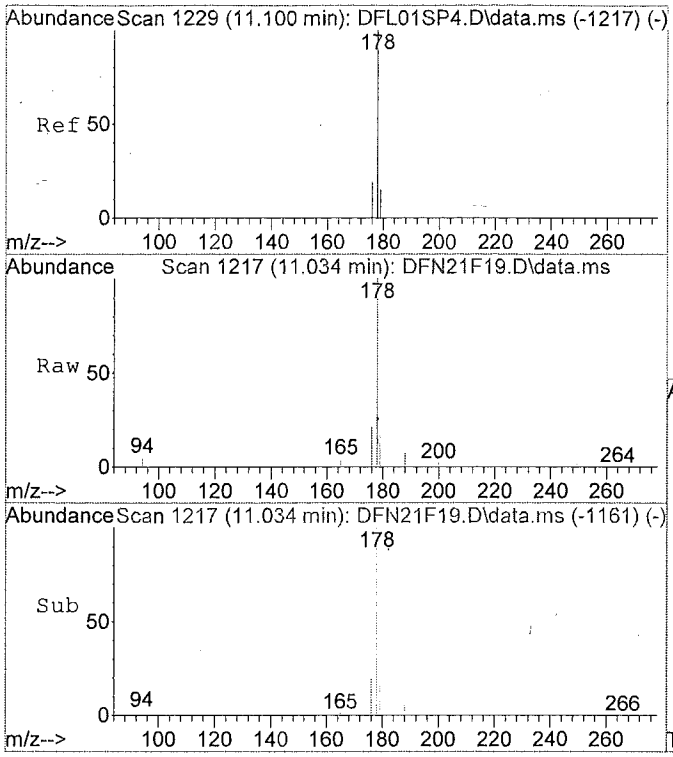




#6
Acenaphthylene
Concen: 0.04 ug/ml
RT: 8.14 min Scan# 618
Delta R.T. 0.01 min
Lab File: DFN21F19.D
Acq: 07/16/2015 18:20

Tgt Ion:152	Resp:	23291	
Ion	Ratio	Lower	Upper
152	100		
151	22.3	15.5	28.7
153	34.7	8.8	16.4#
0	0.0	0.0	0.0

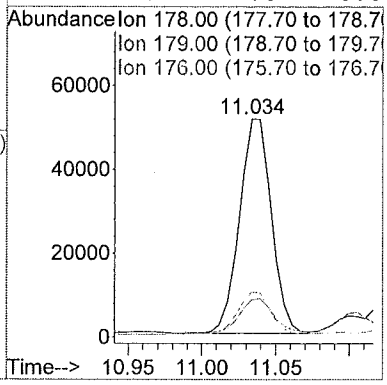


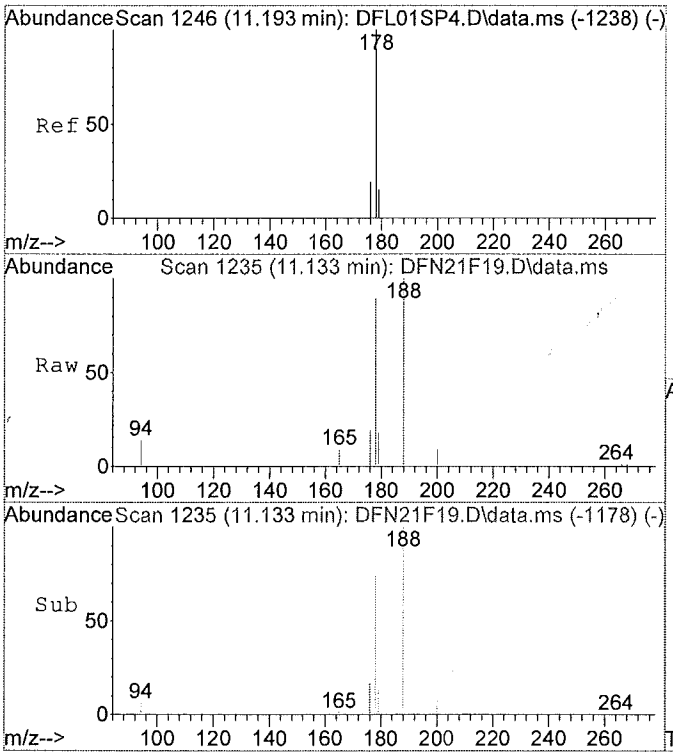


#11
Phenanthrene
Concen: 0.13 ug/ml
RT: 11.03 min Scan# 1217
Delta R.T. 0.01 min
Lab File: DFN21F19.D
Acq: 07/16/2015 18:20

Tgt Ion:178 Resp: 76999

Ion	Ratio	Lower	Upper
178	100		
179	16.4	11.1	20.5
176	20.3	14.1	26.1
0	0.0	0.0	0.0

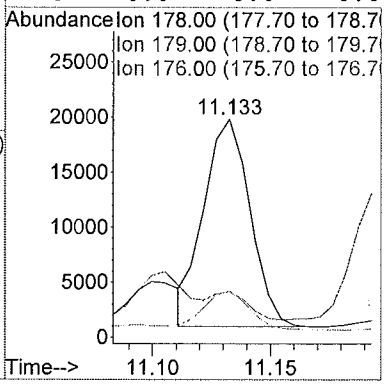


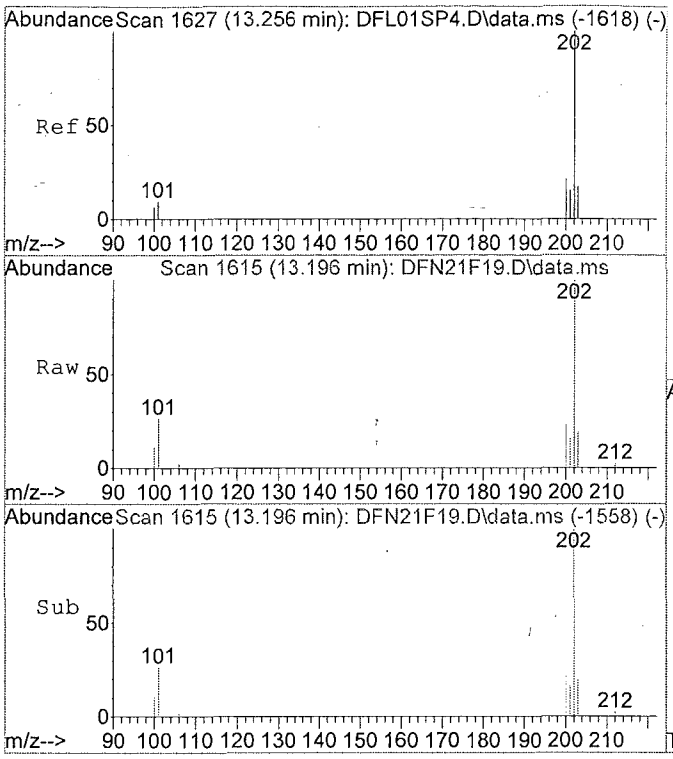


#12
Anthracene
Concen: 0.05 ug/ml m
RT: 11.13 min Scan# 1235
Delta R.T. 0.01 min
Lab File: DFN21F19.D
Acq: 07/16/2015 18:20

Tgt Ion:178 Resp: 25738

Ion	Ratio	Lower	Upper
178	100		
179	0.0	11.6	21.6#
176	19.3	13.9	25.7
0	0.0	0.0	0.0

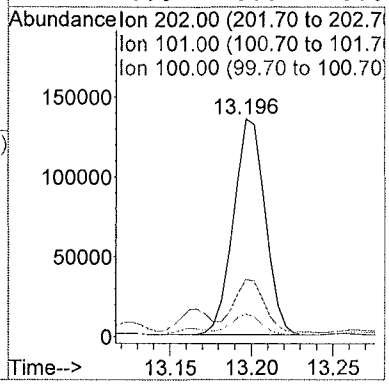


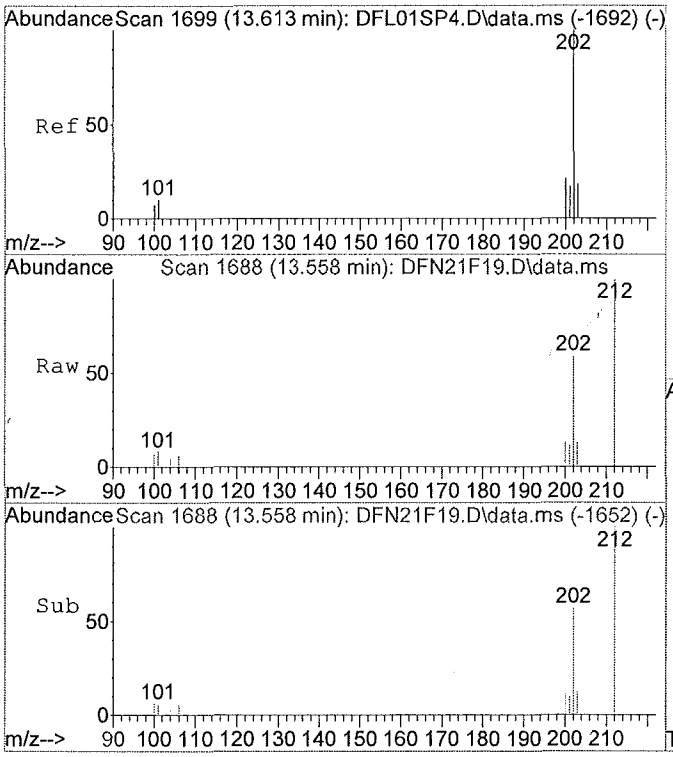


#14
Fluoranthene
Concen: 0.28 ug/ml
RT: 13.20 min Scan# 1615
Delta R.T. 0.01 min
Lab File: DFN21F19.D
Acq: 07/16/2015 18:20

Tgt Ion:202 Resp: 182368

Ion	Ratio	Lower	Upper
202	100		
101	23.9	9.4	17.6#
100	9.6	0.0	0.0#
0	0.0	0.0	0.0

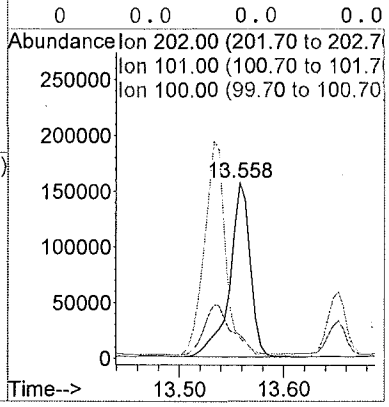


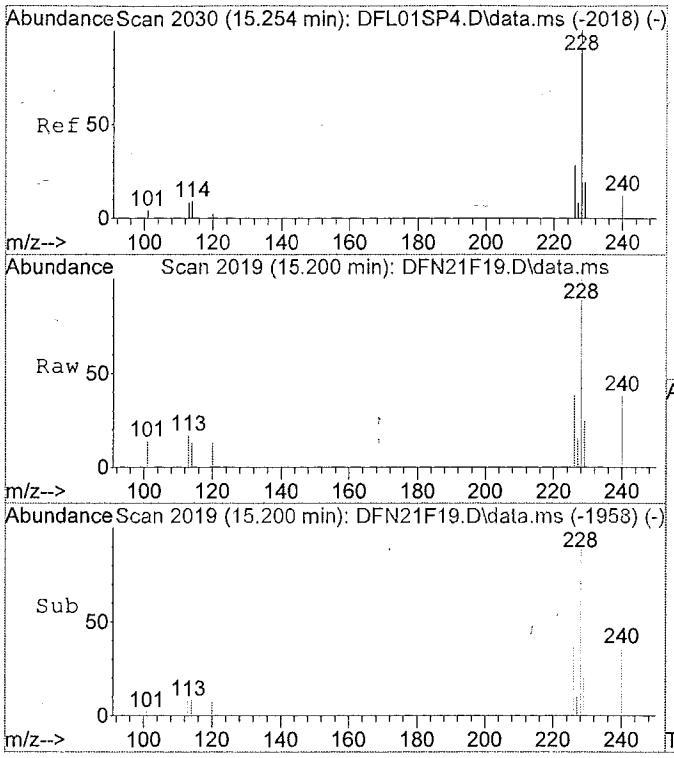


#16
Pyrene
Concen: 0.29 ug/ml
RT: 13.56 min Scan# 1688
Delta R.T. 0.01 min
Lab File: DFN21F19.D
Acq: 07/16/2015 18:20

Tgt Ion:202 Resp: 212642

Ion	Ratio	Lower	Upper
202	100		
101	39.8	10.6	19.6#
100	130.6	9.4	17.4#
0	0.0	0.0	0.0

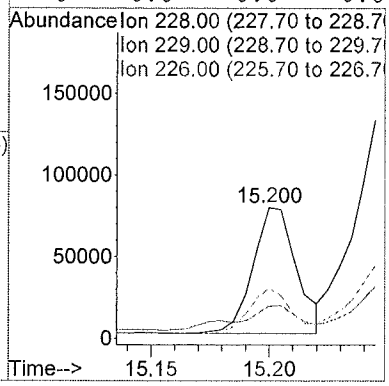


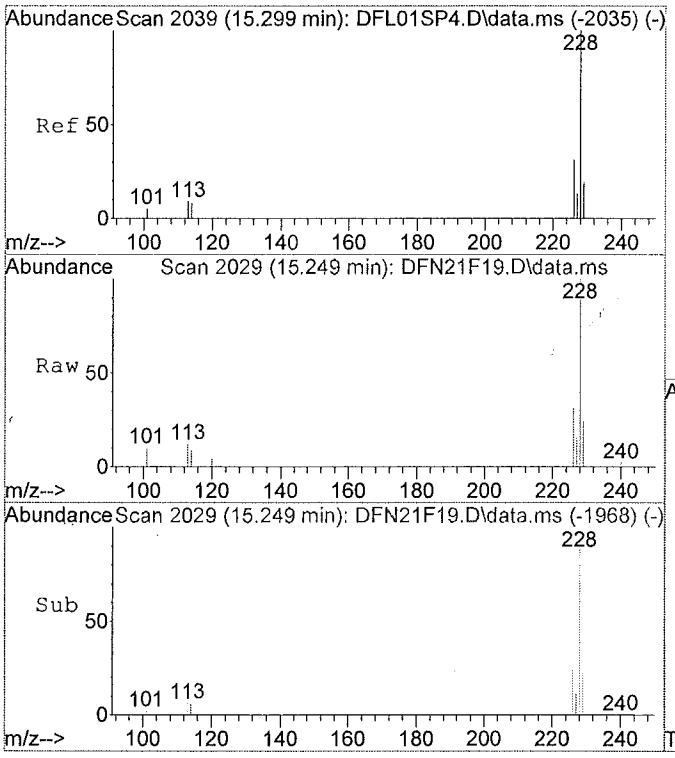


#17
Benzo(a)anthracene
Concen: 0.16 ug/ml
RT: 15.20 min Scan# 2019
Delta R.T. 0.01 min
Lab File: DFN21F19.D
Acq: 07/16/2015 18:20

Tgt Ion:228 Resp: 98346

Ion	Ratio	Lower	Upper
228	100		
229	26.4	14.5	26.9
226	36.1	18.5	34.3#
0	0.0	0.0	0.0

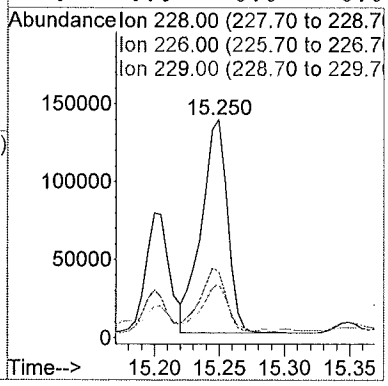


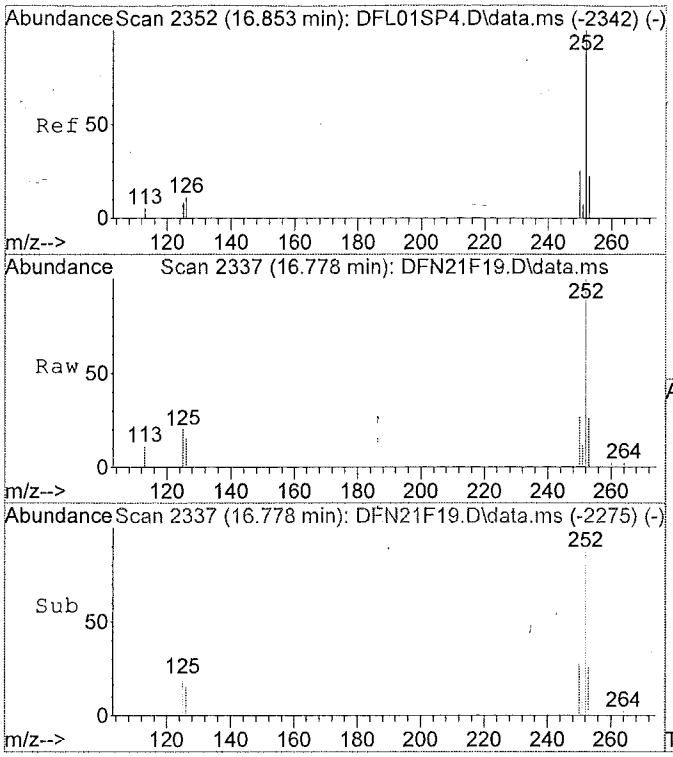


#18
Chrysene
Concen: 0.29 ug/ml
RT: 15.25 min Scan# 2029
Delta R.T. 0.01 min
Lab File: DFN21F19.D
Acq: 07/16/2015 18:20

Tgt Ion:228 Resp: 192050

Ion	Ratio	Lower	Upper
228	100		
226	32.3	19.7	36.7
229	20.3	14.5	26.9
0	0.0	0.0	0.0

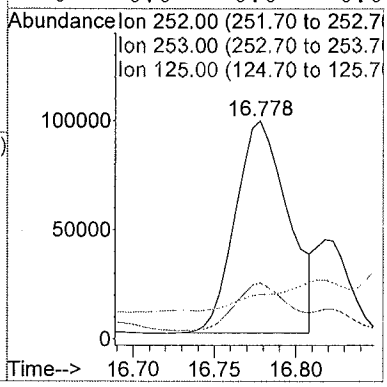


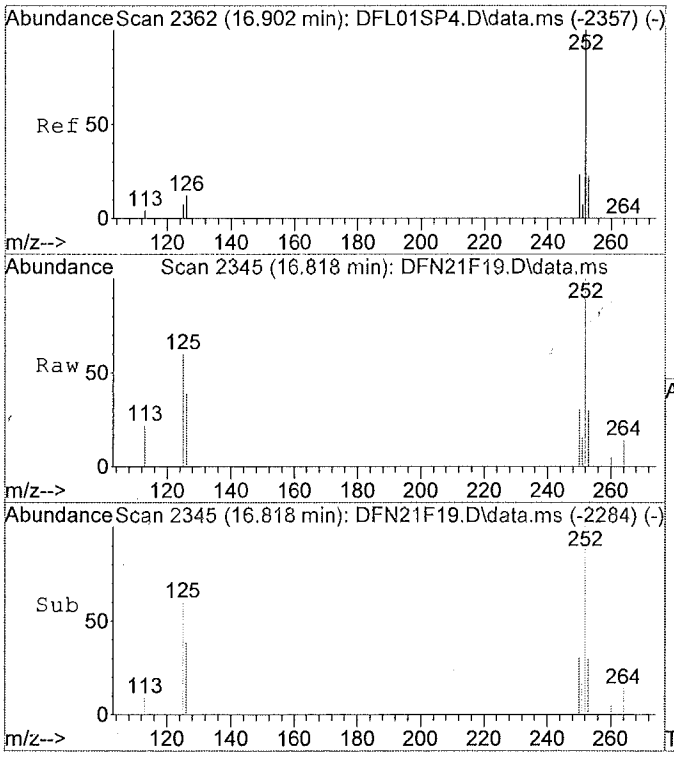


#20
Benzo(b)fluoranthene
Concen: 0.29 ug/ml
RT: 16.78 min Scan# 2337
Delta R.T. 0.01 min
Lab File: DFN21F19.D
Acq: 07/16/2015 18:20

Tgt Ion:252 Resp: 219743

Ion	Ratio	Lower	Upper
252	100		
253	22.2	15.3	28.3
125	0.0	0.0	0.0
0	0.0	0.0	0.0

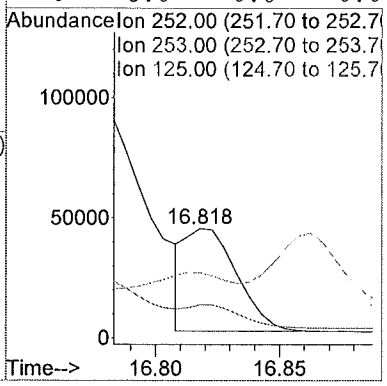


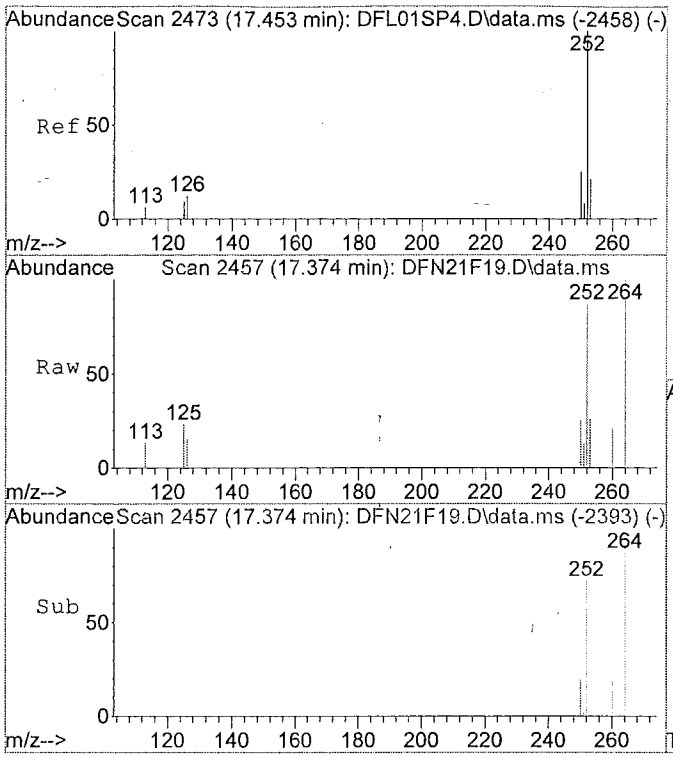


#21
Benzo(k)fluoranthene
Concen: 0.08 ug/ml m
RT: 16.82 min Scan# 2345
Delta R.T. 0.01 min
Lab File: DFN21F19.D
Acq: 07/16/2015 18:20

Tgt Ion:252 Resp: 62092

Ion	Ratio	Lower	Upper
252	100		
253	78.6	15.0	27.8#
125	0.0	0.0	0.0
0	0.0	0.0	0.0

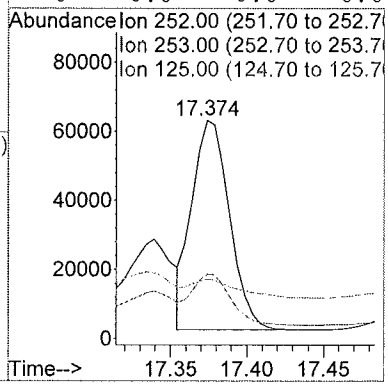


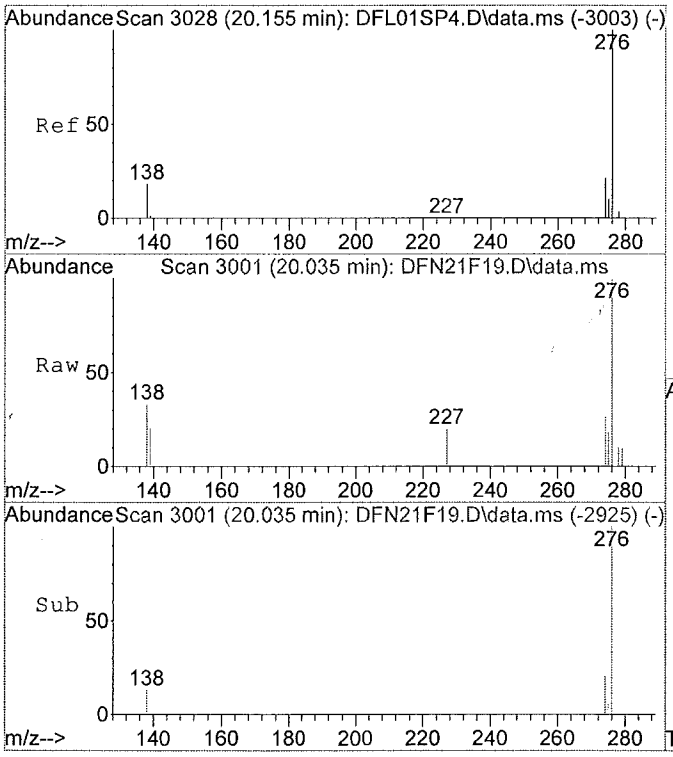


#22
Benzo(a)pyrene
Concen: 0.14 ug/ml
RT: 17.37 min Scan# 2457
Delta R.T. 0.02 min
Lab File: DFN21F19.D
Acq: 07/16/2015 18:20

Tgt Ion:252 Resp: 104707

Ion	Ratio	Lower	Upper
252	100		
253	25.8	15.0	27.8
125	12.5	0.0	0.0#
0	0.0	0.0	0.0

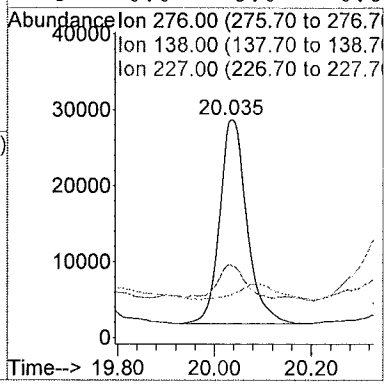




#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.16 ug/ml
RT: 20.03 min Scan# 3001
Delta R.T. 0.04 min
Lab File: DFN21F19.D
Acq: 07/16/2015 18:20

Tgt Ion:276 Resp: 104407

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



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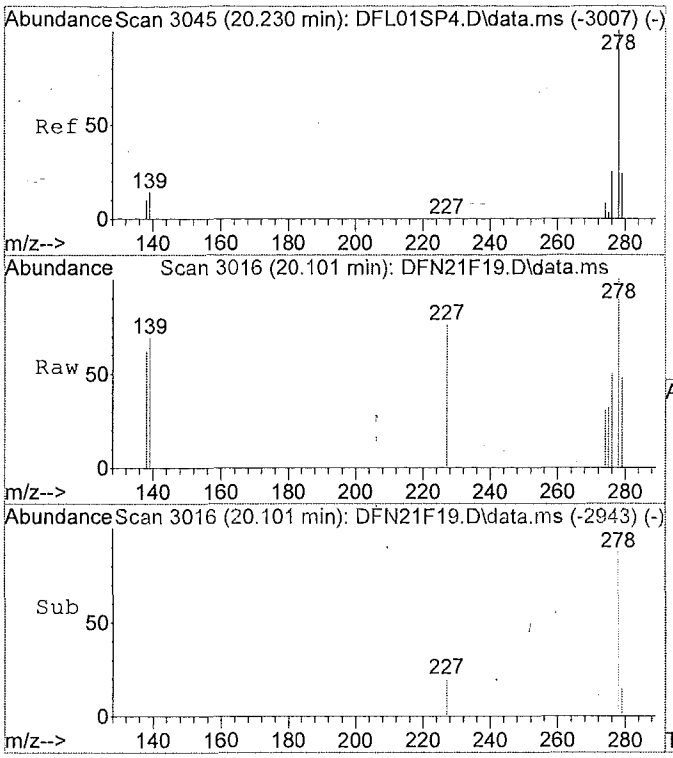
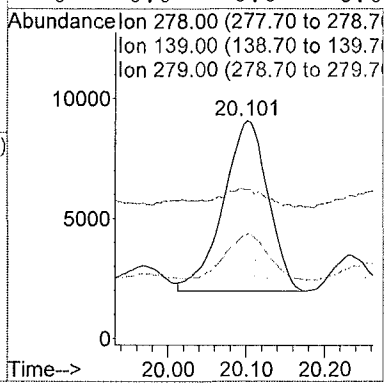
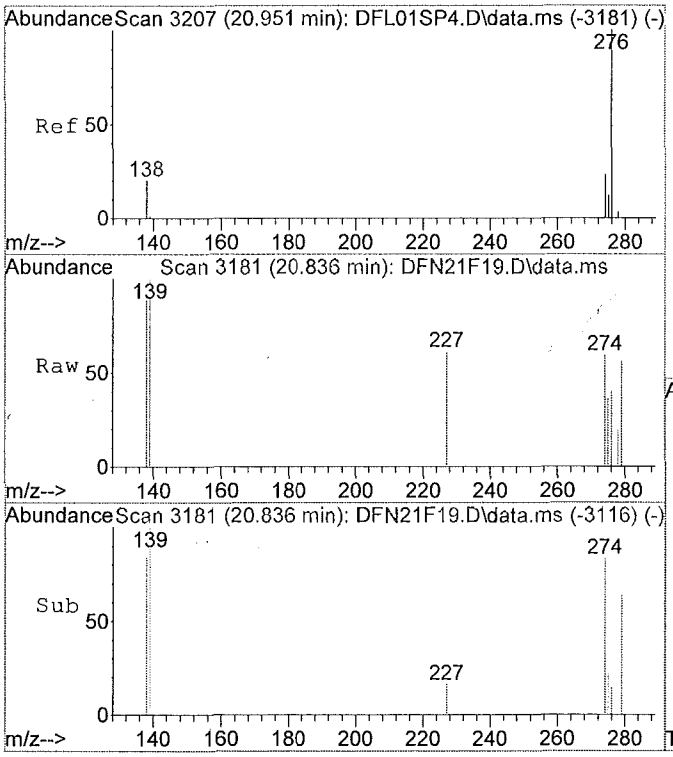


#24
Dibenzo(a,h)anthracene
Concen: 0.04 ug/ml
RT: 20.10 min Scan# 3016
Delta R.T. 0.03 min
Lab File: DFN21F19.D
Acq: 07/16/2015 18:20

Tgt Ion:278 Resp: 28069

Ion	Ratio	Lower	Upper
278	100		
139	10.2	0.0	0.0#
279	26.3	15.8	29.3
0	0.0	0.0	0.0

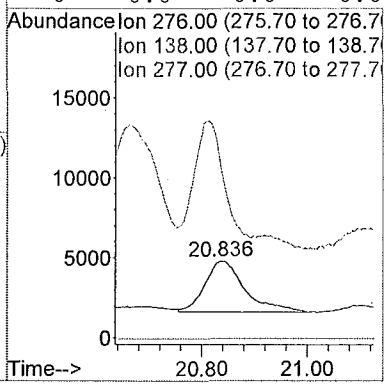




#25
Benzo(g,h,i)perylene
Concen: 0.02 ug/ml
RT: 20.84 min Scan# 3181
Delta R.T. 0.06 min
Lab File: DFN21F19.D
Acq: 07/16/2015 18:20

Tgt Ion:276 Resp: 16876

Ion	Ratio	Lower	Upper
276	100		
138	172.2	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.

F9M39

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DFN22F20

Extraction: (Type) SONC

% Moisture: 13. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/16/2015

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

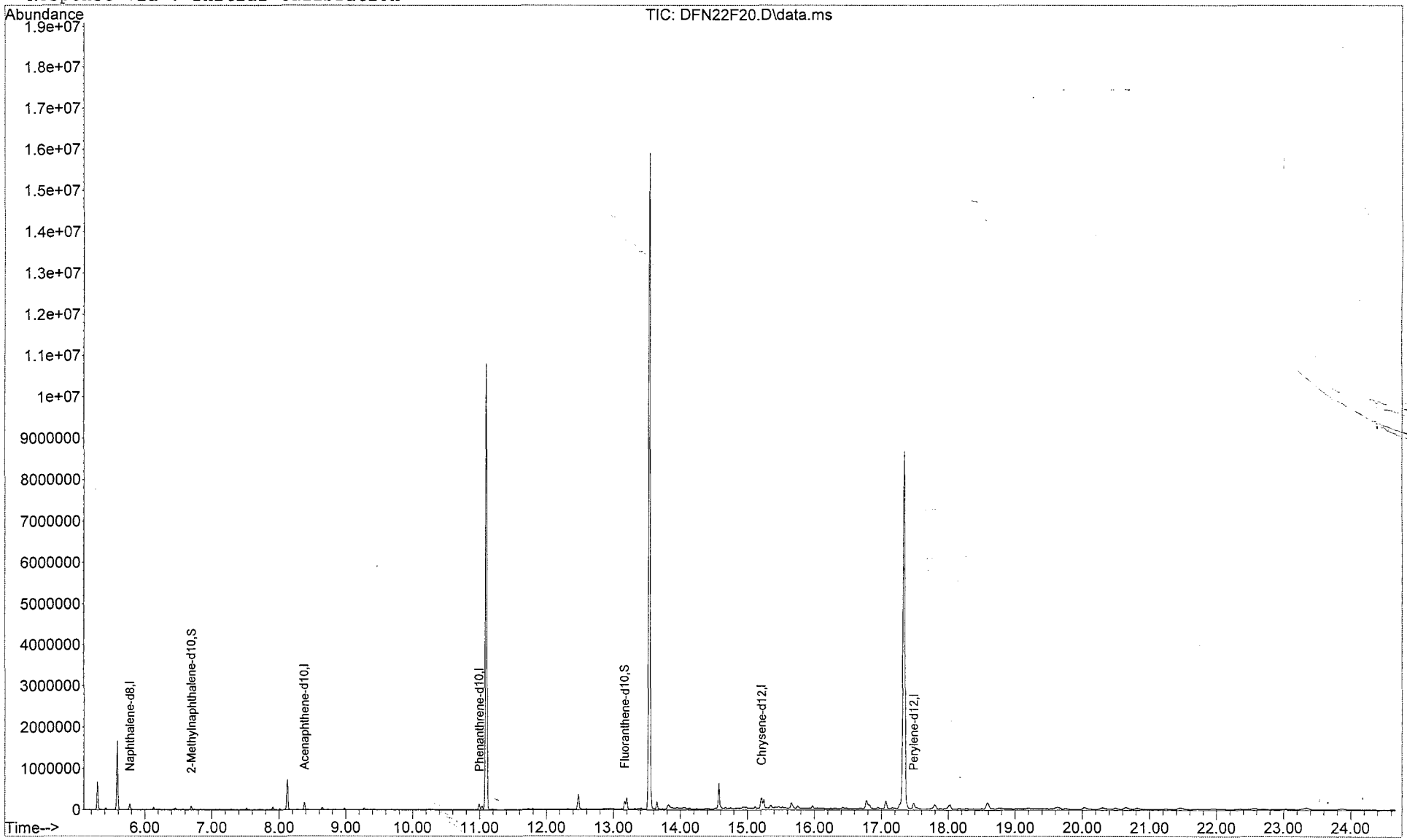
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.8	U
91-57-6	2-Methylnaphthalene	0.89	J
208-96-8	Acenaphthylene	1.0	J
83-32-9	Acenaphthene	3.8	U
86-73-7	Fluorene	3.8	U
87-86-5	Pentachlorophenol	7.6	U
85-01-8	Phenanthrene	7.0	
120-12-7	Anthracene	1.4	J
206-44-0	Fluoranthene	13.	
129-00-0	Pyrene	13.	
56-55-3	Benzo(a)anthracene	7.6	
218-01-9	Chrysene	10.	
205-99-2	Benzo(b)fluoranthene	14.	
207-08-9	Benzo(k)fluoranthene	3.7	J
50-32-8	Benzo(a)pyrene	6.4	
193-39-5	Indeno(1,2,3-cd)pyrene	7.4	
53-70-3	Dibenzo(a,h)anthracene	1.7	J
191-24-2	Benzo(g,h,i)perylene	0.96	J

Quantitation Report

Data File : R:\D\2015\JUL15\16JUL15DPM\DFN22F20.D Vial: 16
Acq On : 07/16/2015 18:50 Operator: DJC
Sample : 1515542020 F9M39 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jul 18 12:36:21 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



Quantitation Report

Data File : R:\D\2015\JUL15\16JUL15DPM\DFN22F20.D Vial: 16
Acq On : 07/16/2015 18:50 Operator: DJC
Sample : 1515542020 F9M39 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 18 12:36:21 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

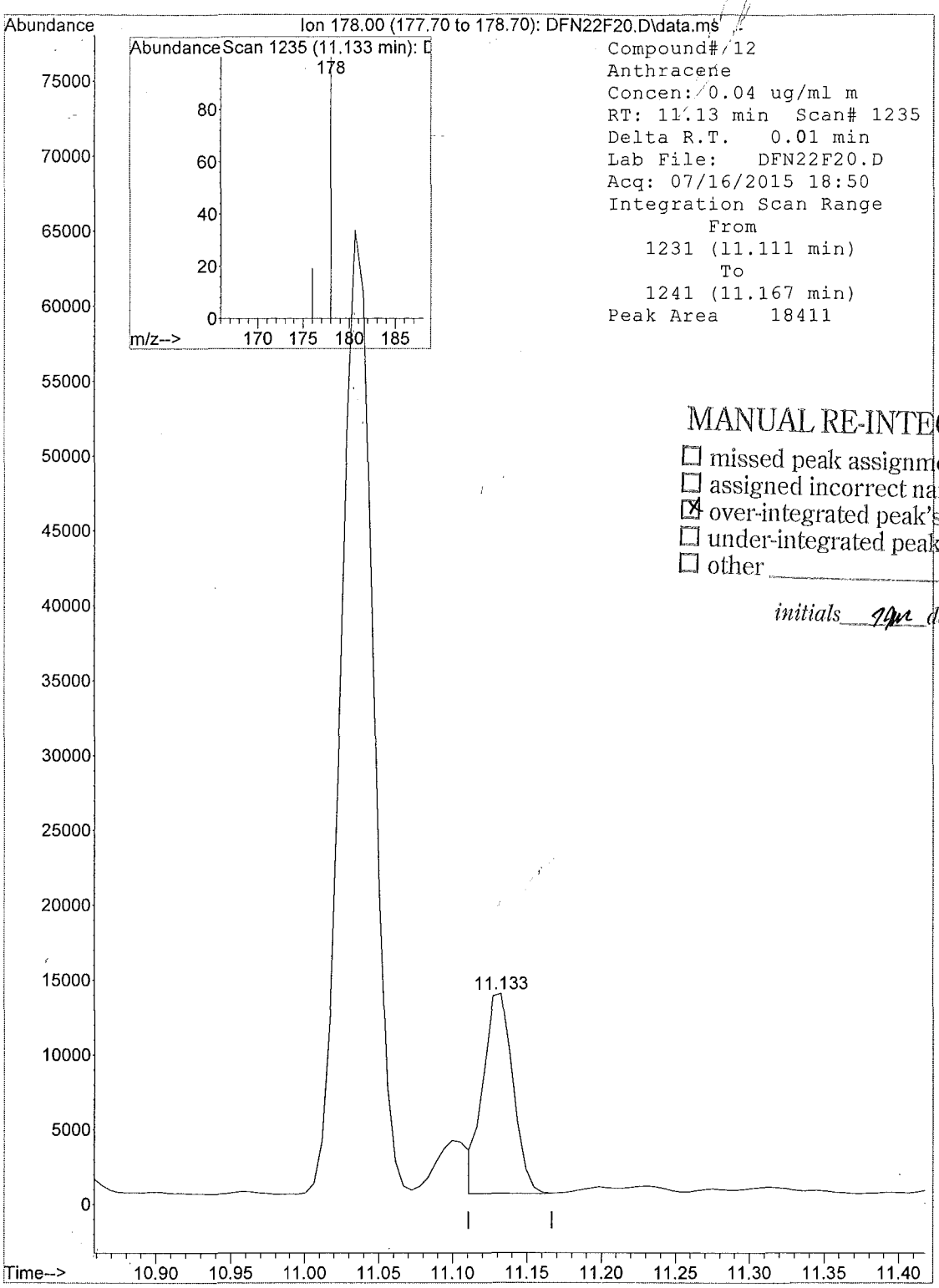
Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.78	136	153255	0.40 ug/ml	
5) Acenaphthene-d10	8.38	164	111766	0.40 ug/ml	
9) Phenanthrene-d10	11.00	188	181157	0.40 ug/ml	
15) Chrysene-d12	15.21	240	207573	0.40 ug/ml	
19) Perylene-d12	17.48	264	220249	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.69	152	85910	0.347ug/mL	
13) Fluoranthene-d10	13.17	212	208935	0.422ug/mL	
Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	6.74	142	6020	0.023ug/ml	93
6) Acenaphthylene	8.14	152	13220	0.027ug/ml	62
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	96279	0.185ug/ml	98
12) Anthracene	11.13	178	18411	0.036ug/ml m	85
14) Fluoranthene	13.20	202	210780	0.355ug/ml	94
16) Pyrene	13.56	202	229260	0.352ug/ml	1
17) Benzo(a)anthracene	15.20	228	110721	0.200ug/ml	89
18) Chrysene	15.24	228	160607	0.275ug/ml	96
20) Benzo(b)fluoranthene	16.78	252	244187	0.356ug/ml	99
21) Benzo(k)fluoranthene	16.82	252	69592	0.098ug/ml m	98
22) Benzo(a)pyrene	17.37	252	110222	0.168ug/ml	94
23) Indeno(1,2,3-c,d)pyrene	20.03	276	111834	0.195ug/ml	100
24) Dibenzo(a,h)anthracene	20.10	278	28151	0.044ug/ml	90
25) Benzo(g,h,i)perylene	20.83	276	16360	0.025ug/ml	1

7.18.15

7.18.15

(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

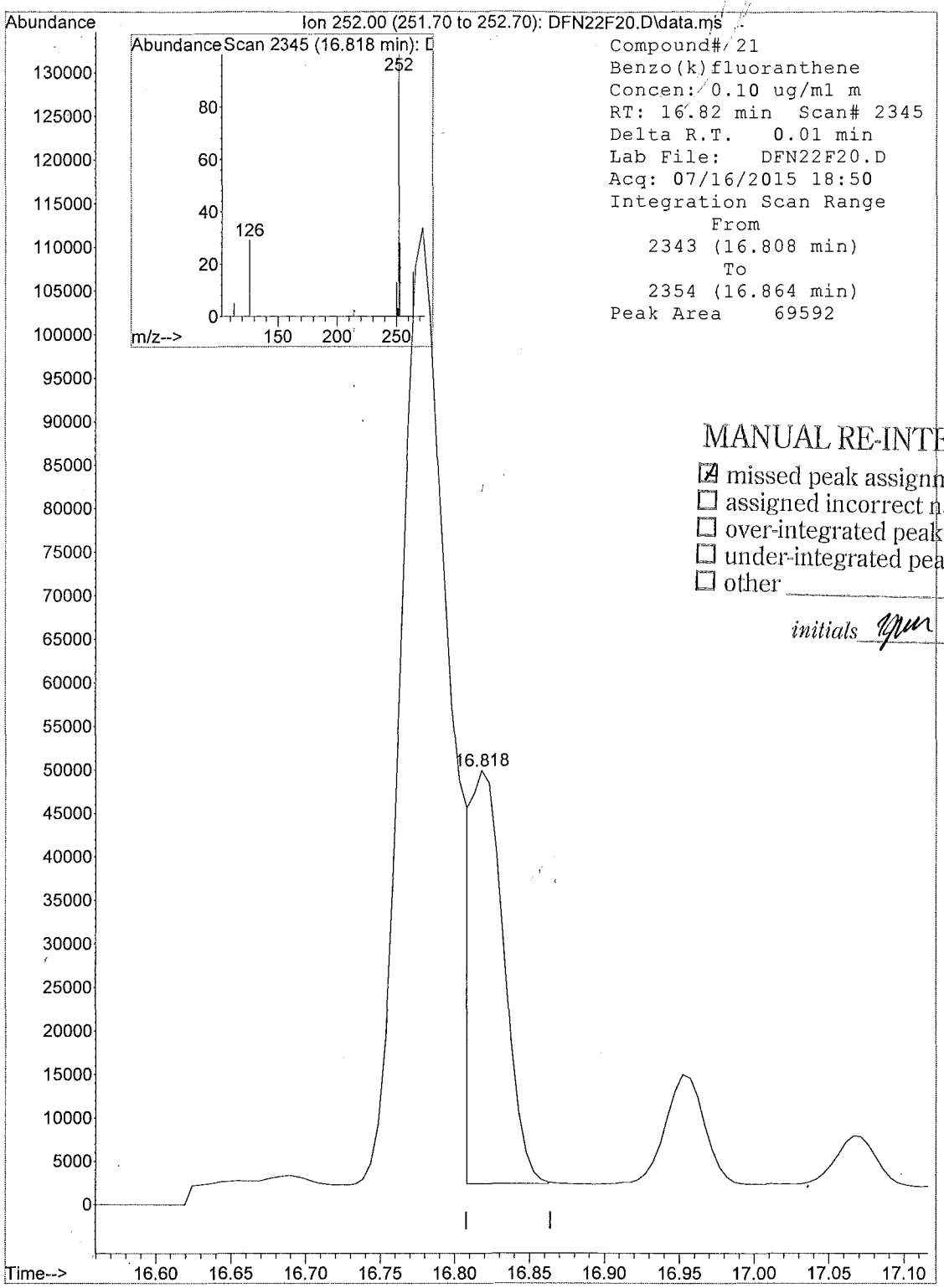


MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☒ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials JM *date* 7.18.15

M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene

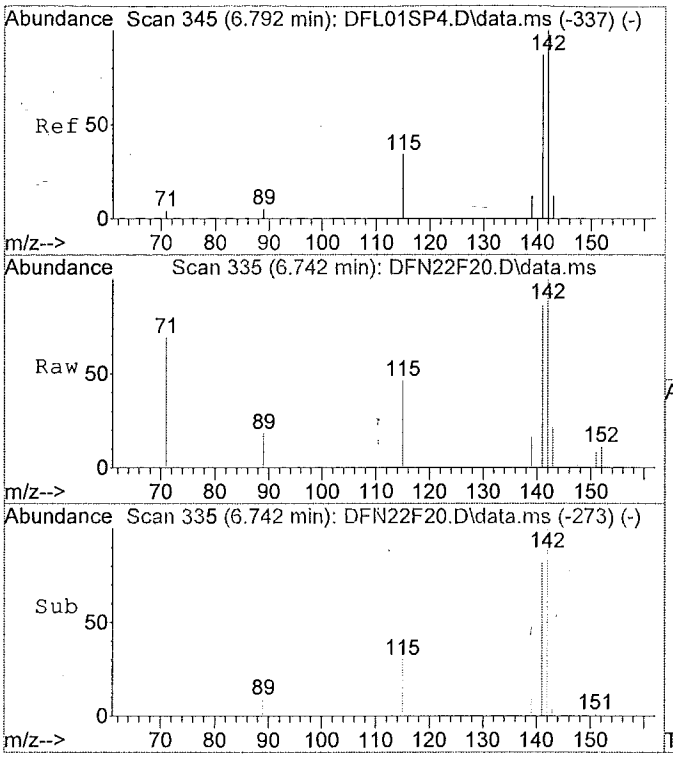


MANUAL RE-INTEGRATION

- ☒ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials ____ *date* 7.18.15

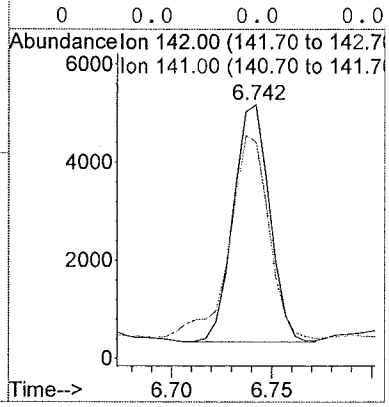
DSOM_SIMJ2.M 5975-D DSOM_SIMJ2.M 1515542020 F9M39 . SOIL SIM

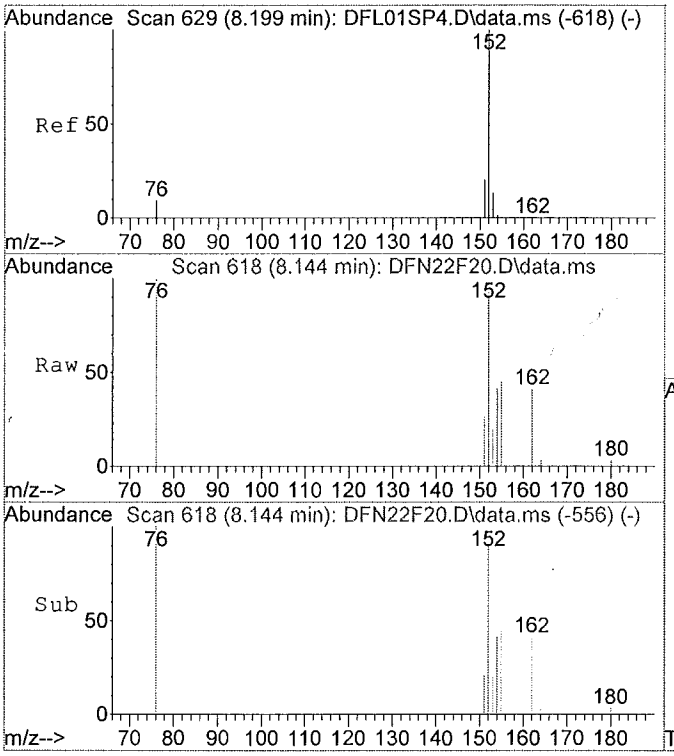


#4
2-Methylnaphthalene
Concen: 0.02 ug/ml
RT: 6.74 min Scan# 335
Delta R.T. 0.01 min
Lab File: DFN22F20.D
Acq: 07/16/2015 18:50

Tgt Ion:142 Resp: 6020

Ion	Ratio	Lower	Upper
142	100		
141	93.5	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

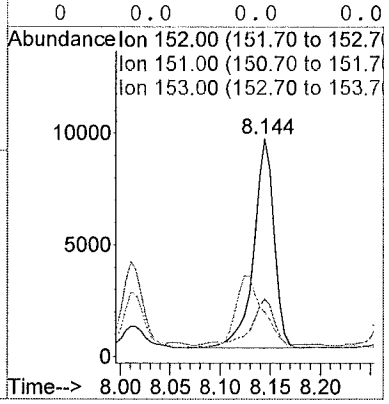


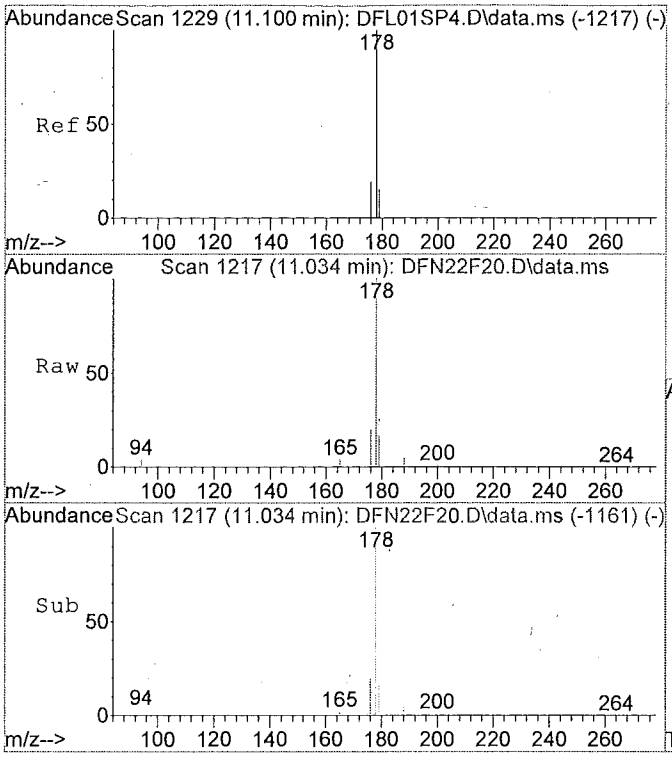


#6
Acenaphthylene
Concen: 0.03 ug/ml
RT: 8.14 min Scan# 618
Delta R.T. 0.01 min
Lab File: DFN22F20.D
Acq: 07/16/2015 18:50

Tgt Ion:152 Resp: 13220

Ion	Ratio	Lower	Upper
152	100		
151	24.9	15.5	28.7
153	49.4	8.8	16.4#
0	0.0	0.0	0.0

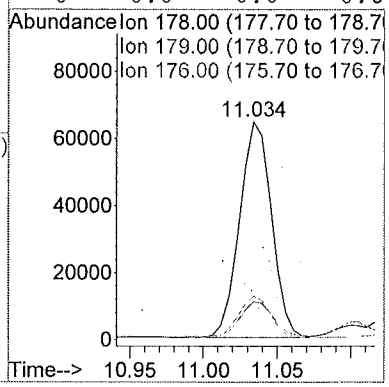


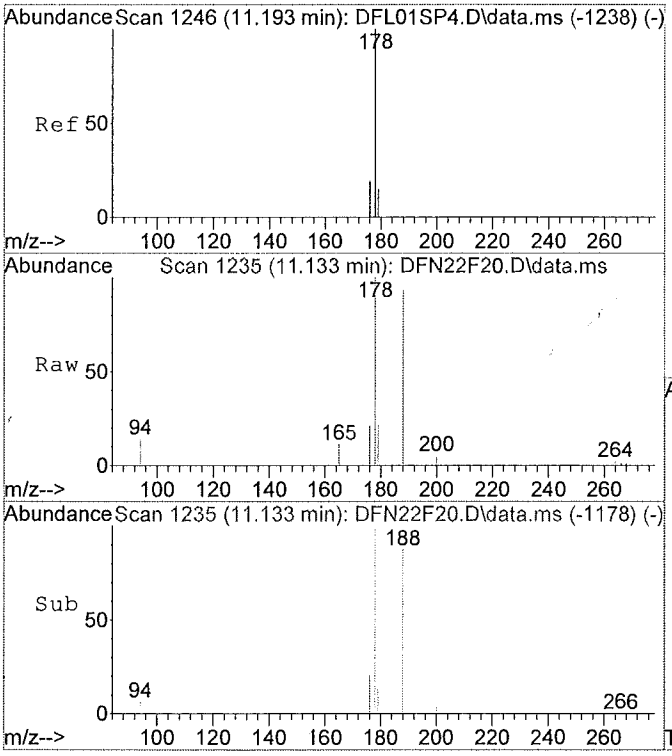


#11
Phenanthrene
Concen: 0.18 ug/ml
RT: 11.03 min Scan# 1217
Delta R.T. 0.01 min
Lab File: DFN22F20.D
Acq: 07/16/2015 18:50

Tgt Ion:178 Resp: 96279

Ion	Ratio	Lower	Upper
178	100		
179	17.0	11.1	20.5
176	19.8	14.1	26.1
0	0.0	0.0	0.0

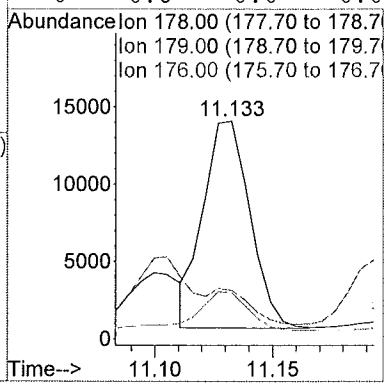


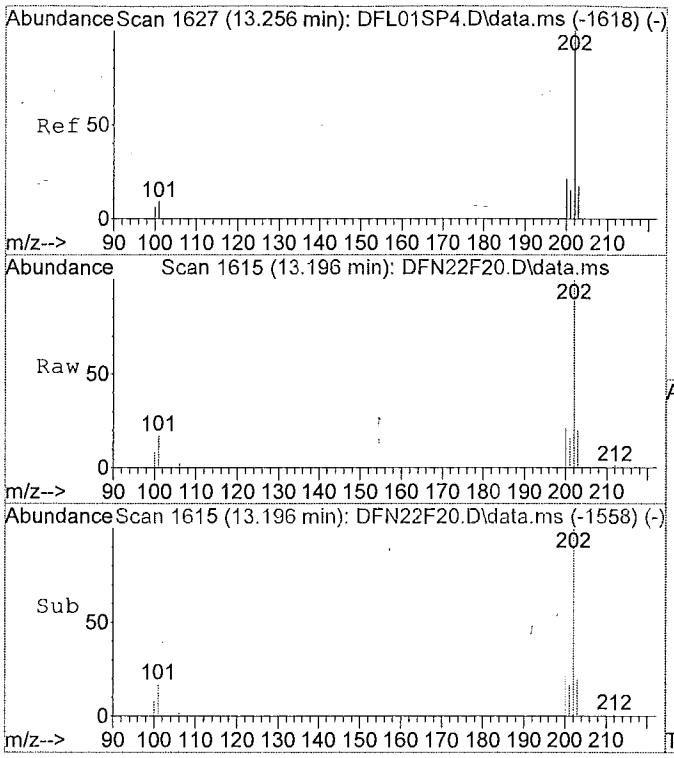


#12
Anthracene
Concen: 0.04 ug/ml m
RT: 11.13 min Scan# 1235
Delta R.T. 0.01 min
Lab File: DFN22F20.D
Acq: 07/16/2015 18:50

Tgt Ion:178 Resp: 18411

Ion	Ratio	Lower	Upper
178	100		
179	35.5	11.6	21.6#
176	21.4	13.9	25.7
0	0.0	0.0	0.0

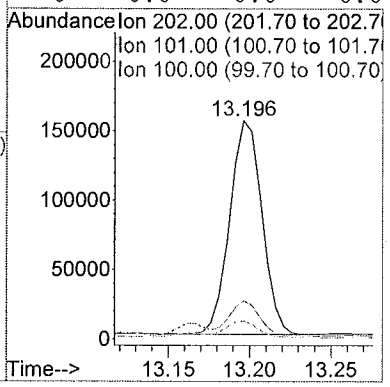


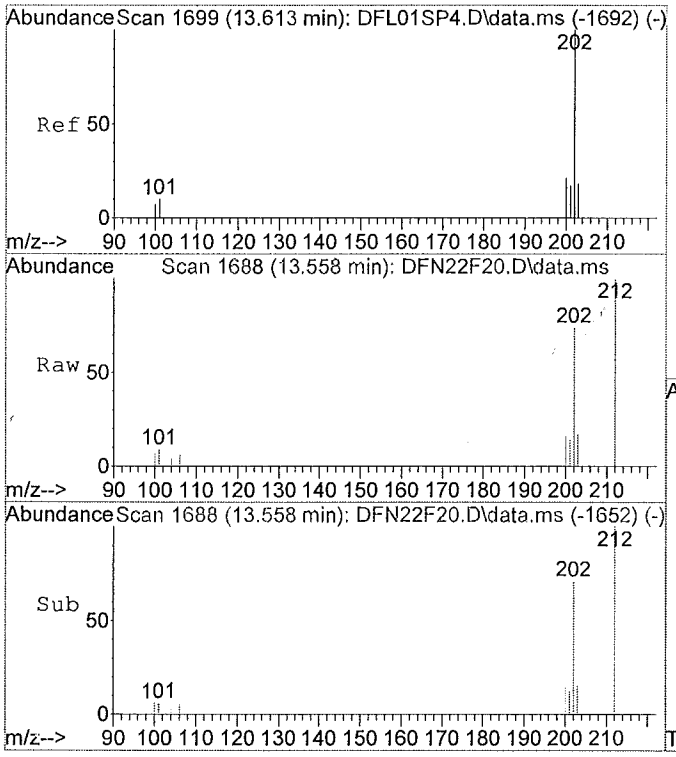


#14
Fluoranthene
Concen: 0.35 ug/ml
RT: 13.20 min Scan# 1615
Delta R.T. 0.01 min
Lab File: DFN22F20.D
Acq: 07/16/2015 18:50

Tgt Ion:202 Resp: 210780

Ion	Ratio	Lower	Upper
202	100		
101	15.7	9.4	17.6
100	7.6	0.0	0.0#
0	0.0	0.0	0.0

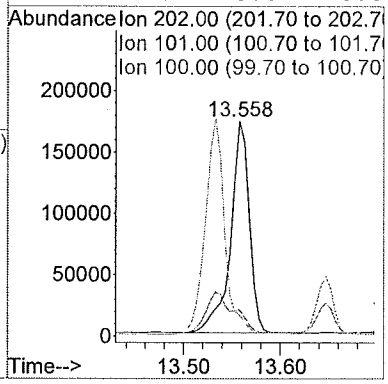


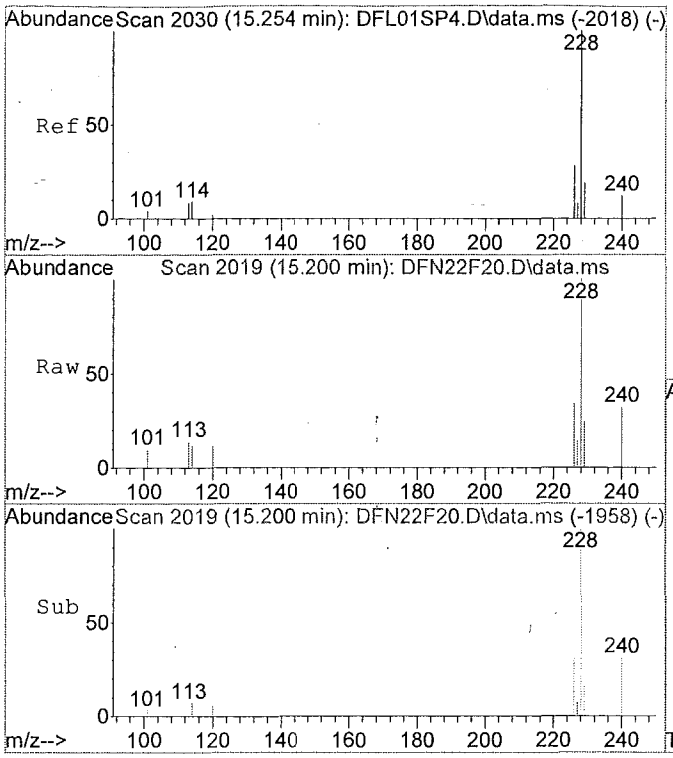


#16
Pyrene
Concen: 0.35 ug/ml
RT: 13.56 min Scan# 1688
Delta R.T. 0.01 min
Lab File: DFN22F20.D
Acq: 07/16/2015 18:50

Tgt Ion:202 Resp: 229260

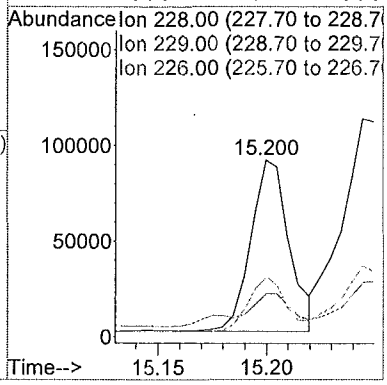
Ion	Ratio	Lower	Upper
202	100		
101	29.9	10.6	19.6#
100	108.7	9.4	17.4#
0	0.0	0.0	0.0

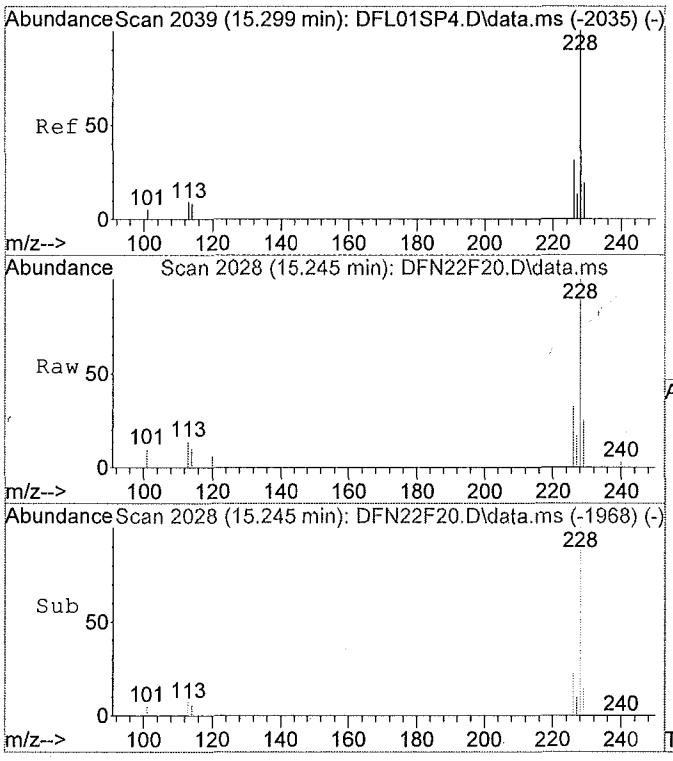




#17
Benzo(a)anthracene
Concen: 0.20 ug/ml
RT: 15.20 min Scan# 2019
Delta R.T. 0.01 min
Lab File: DFN22F20.D
Acq: 07/16/2015 18:50

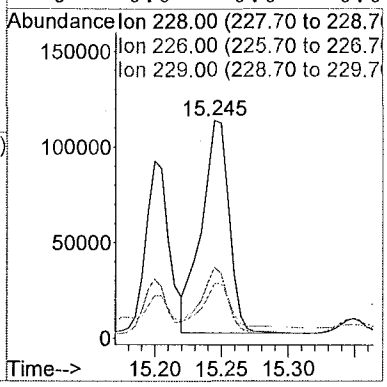
Tgt Ion:228	Resp:	110721	
Ion	Ratio	Lower	Upper
228	100		
229	24.8	14.5	26.9
226	32.5	18.5	34.3
0	0.0	0.0	0.0

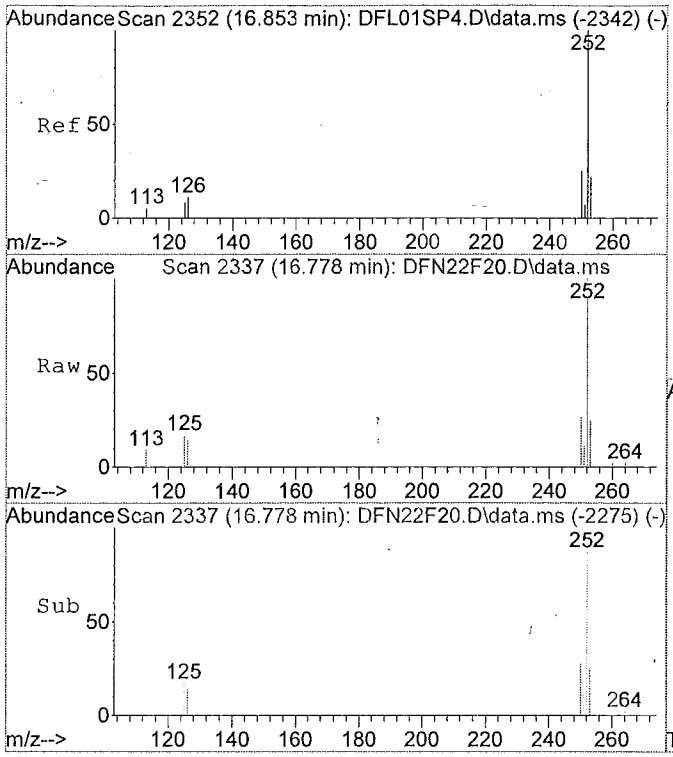




#18
Chrysene
Concen: 0.27 ug/ml
RT: 15.24 min Scan# 2028
Delta R.T. 0.00 min
Lab File: DFN22F20.D
Acq: 07/16/2015 18:50

Tgt Ion:228	Resp:	160607	
Ion	Ratio	Lower	Upper
228	100		
226	31.0	19.7	36.7
229	21.6	14.5	26.9
0	0.0	0.0	0.0

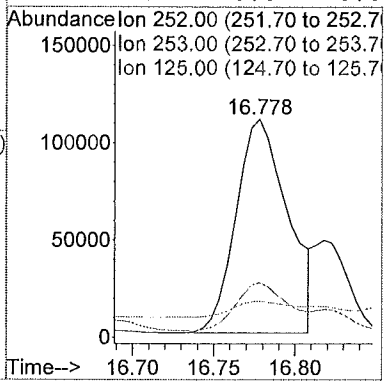


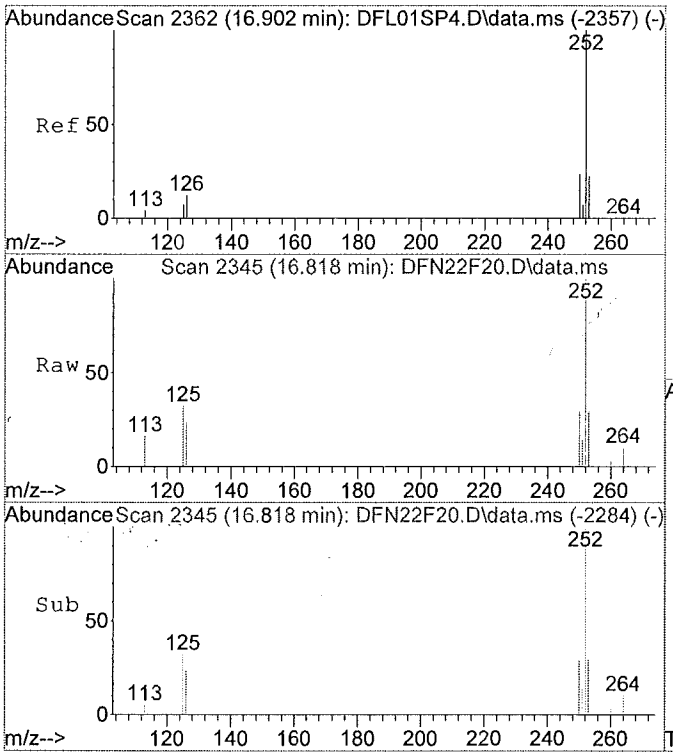


#20
Benzo(b)fluoranthene
Concen: 0.36 ug/ml
RT: 16.78 min Scan# 2337
Delta R.T. 0.01 min
Lab File: DFN22F20.D
Acq: 07/16/2015 18:50

Tgt Ion:252 Resp: 244187

Ion	Ratio	Lower	Upper
252	100		
253	22.5	15.3	28.3
125	7.6	0.0	0.0#
0	0.0	0.0	0.0

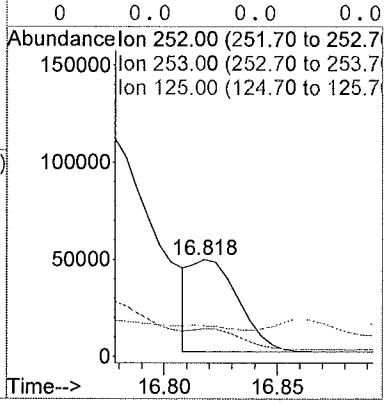


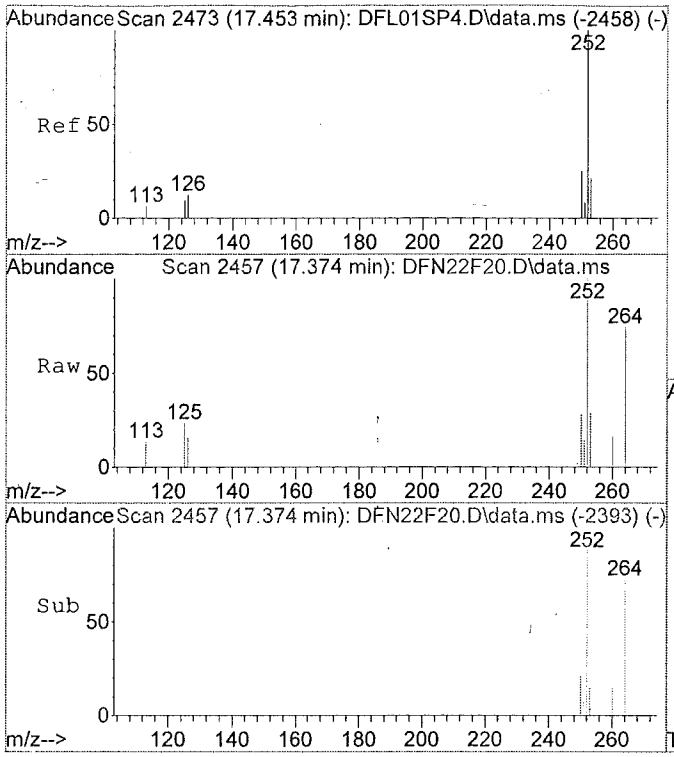


#21
Benzo(k)fluoranthene
Concen: 0.10 ug/ml m
RT: 16.82 min Scan# 2345
Delta R.T. 0.01 min
Lab File: DFN22F20.D
Acq: 07/16/2015 18:50

Tgt Ion:252 Resp: 69592

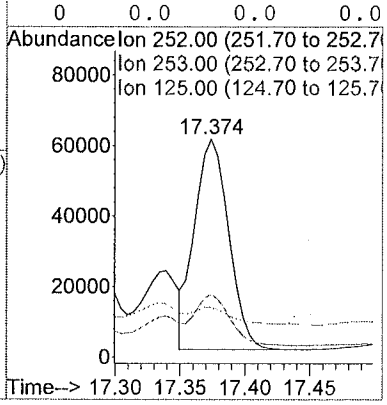
Ion	Ratio	Lower	Upper
252	100		
253	78.8	15.0	27.8#
125	26.6	0.0	0.0#
0	0.0	0.0	0.0

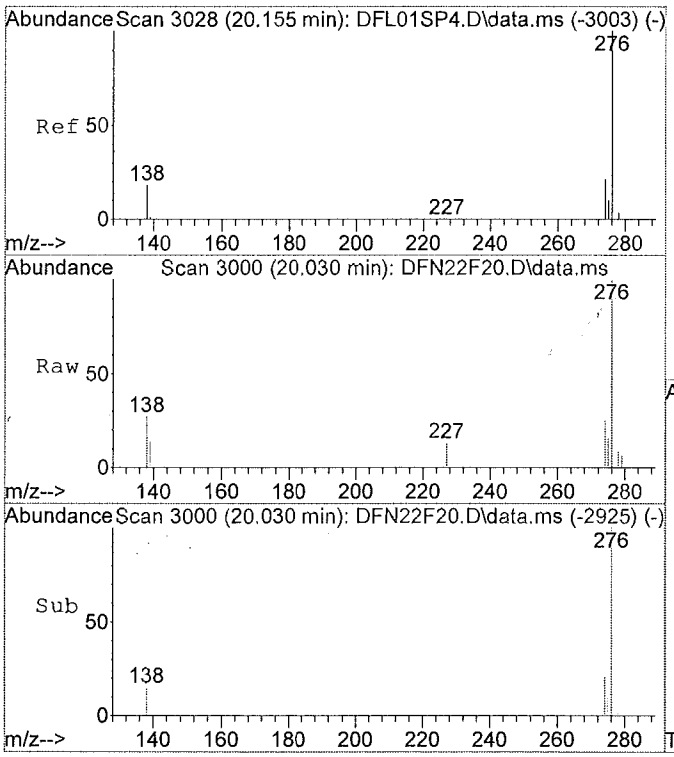




#22
Benzo(a)pyrene
Concen: 0.17 ug/ml
RT: 17.37 min Scan# 2457
Delta R.T. 0.02 min
Lab File: DFN22F20.D
Acq: 07/16/2015 18:50

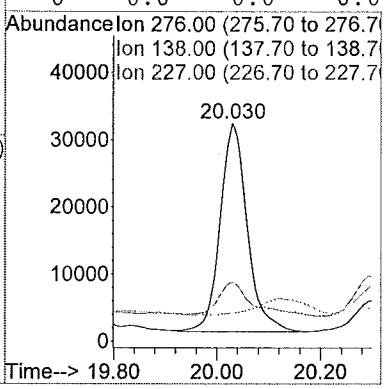
Tgt Ion:252	Resp:	110222	
Ion	Ratio	Lower	Upper
252	100		
253	24.3	15.0	27.8
125	9.8	0.0	0.0#
0	0.0	0.0	0.0

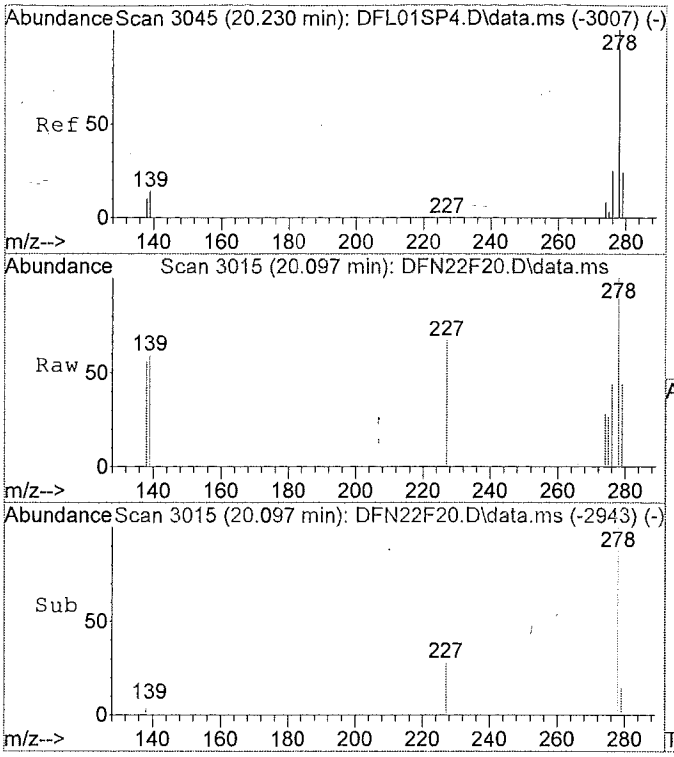




#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.19 ug/ml
RT: 20.03 min Scan# 3000
Delta R.T. 0.04 min
Lab File: DFN22F20.D
Acq: 07/16/2015 18:50

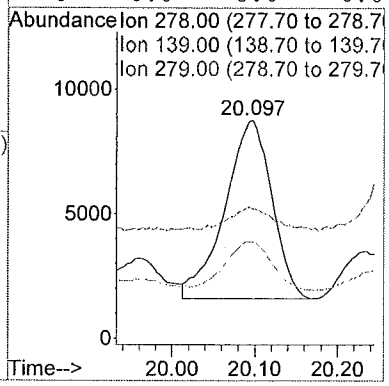
Tgt Ion:276	Resp:	111834	
Ion	Ratio	Lower	Upper
276	100		
138	20.7	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

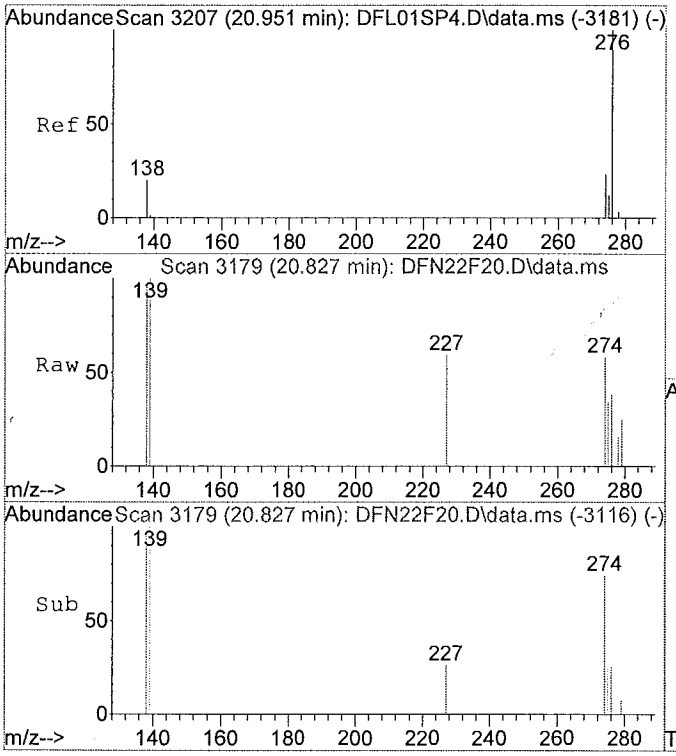




#24
Dibenzo(a,h)anthracene
Concen: 0.04 ug/ml
RT: 20.10 min Scan# 3015
Delta R.T. 0.02 min
Lab File: DFN22F20.D
Acq: 07/16/2015 18:50

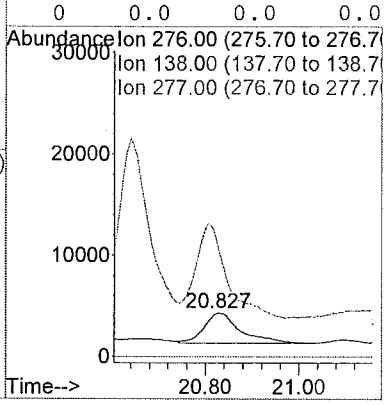
Tgt Ion:278	Resp:	28151	
Ion	Ratio	Lower	Upper
278	100		
139	10.5	0.0	0.0#
279	27.5	15.8	29.3
0	0.0	0.0	0.0





#25
Benzo(g,h,i)perylene
Concen: 0.03 ug/ml
RT: 20.83 min Scan# 3179
Delta R.T. 0.05 min
Lab File: DFN22F20.D
Acq: 07/16/2015 18:50

Tgt Ion:276	Resp:	16360	
Ion	Ratio	Lower	Upper
276	100		
138	262.9	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.

F9M40

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DGB25F21

Extraction: (Type) SONC

% Moisture: 13. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/16/2015

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 20.0

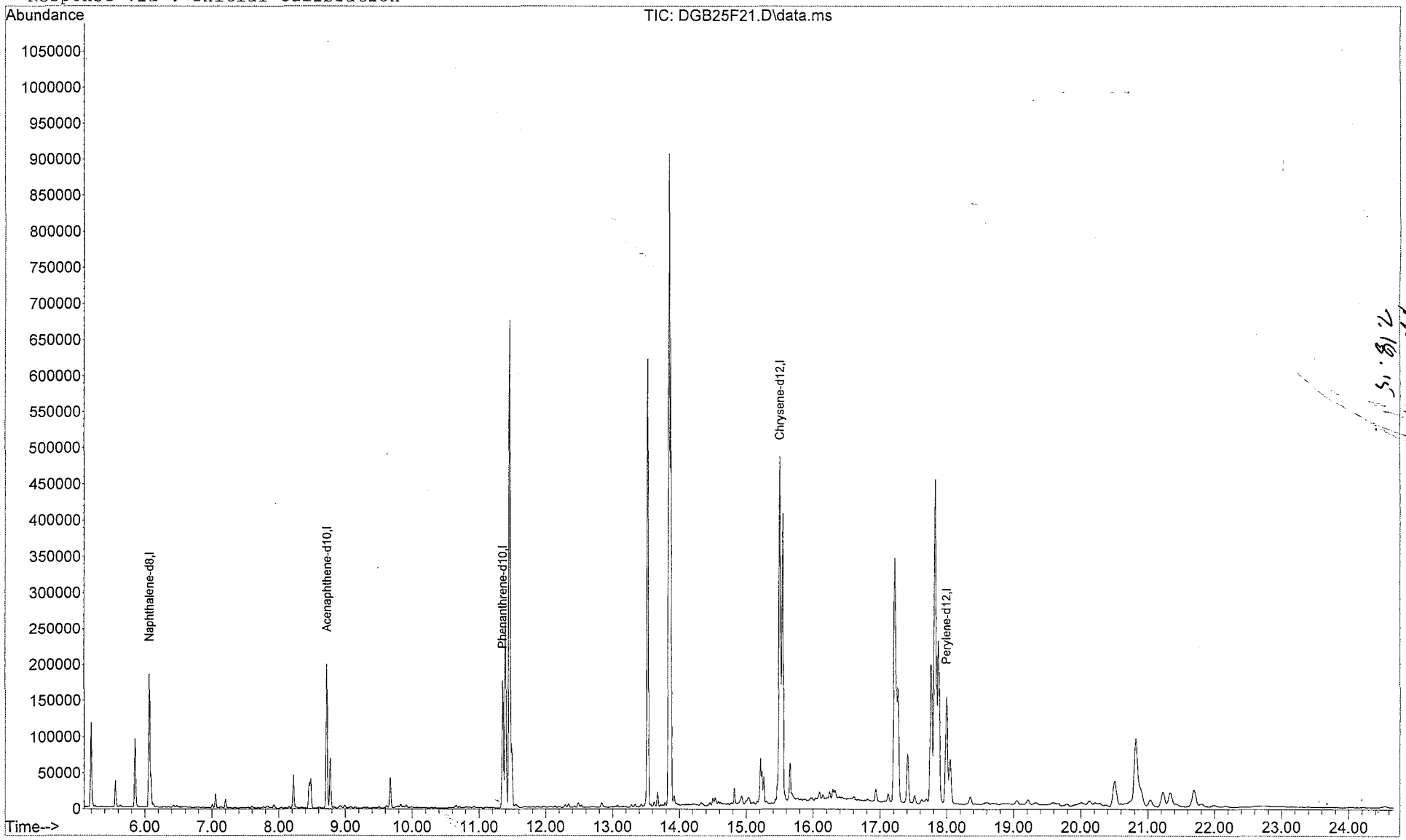
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	48.	J
91-57-6	2-Methylnaphthalene	21.	J
208-96-8	Acenaphthylene	48.	J
83-32-9	Acenaphthene	66.	J
86-73-7	Fluorene	41.	J
87-86-5	Pentachlorophenol	150	U
85-01-8	Phenanthrene	310	
120-12-7	Anthracene	100	
206-44-0	Fluoranthene	490	
129-00-0	Pyrene	420	
56-55-3	Benzo(a)anthracene	330	
218-01-9	Chrysene	310	
205-99-2	Benzo(b)fluoranthene	440	
207-08-9	Benzo(k)fluoranthene	130	
50-32-8	Benzo(a)pyrene	270	
193-39-5	Indeno(1,2,3-cd)pyrene	260	
53-70-3	Dibenzo(a,h)anthracene	57.	J
191-24-2	Benzo(g,h,i)perylene	60.	J

Quantitation Report

Data File : R:\D\2015\JUN15\15JUN15\15JUN15\DGB25F21.D Vial: 22
Acq On : 06/16/2015 02:28 Operator: SY
Sample : 1515542021 F9M40 (20) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 17 15:08:32 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



Quantitation Report

Data File : R:\D\2015\JUN15\15JUN15\15JUN15\DGB25F21.D Vial: 22
Acq On : 06/16/2015 02:28 Operator: SY
Sample : 1515542021 F9M40 (20) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 17 15:08:32 2015 Results File: DSOM_SIMJ2.RES

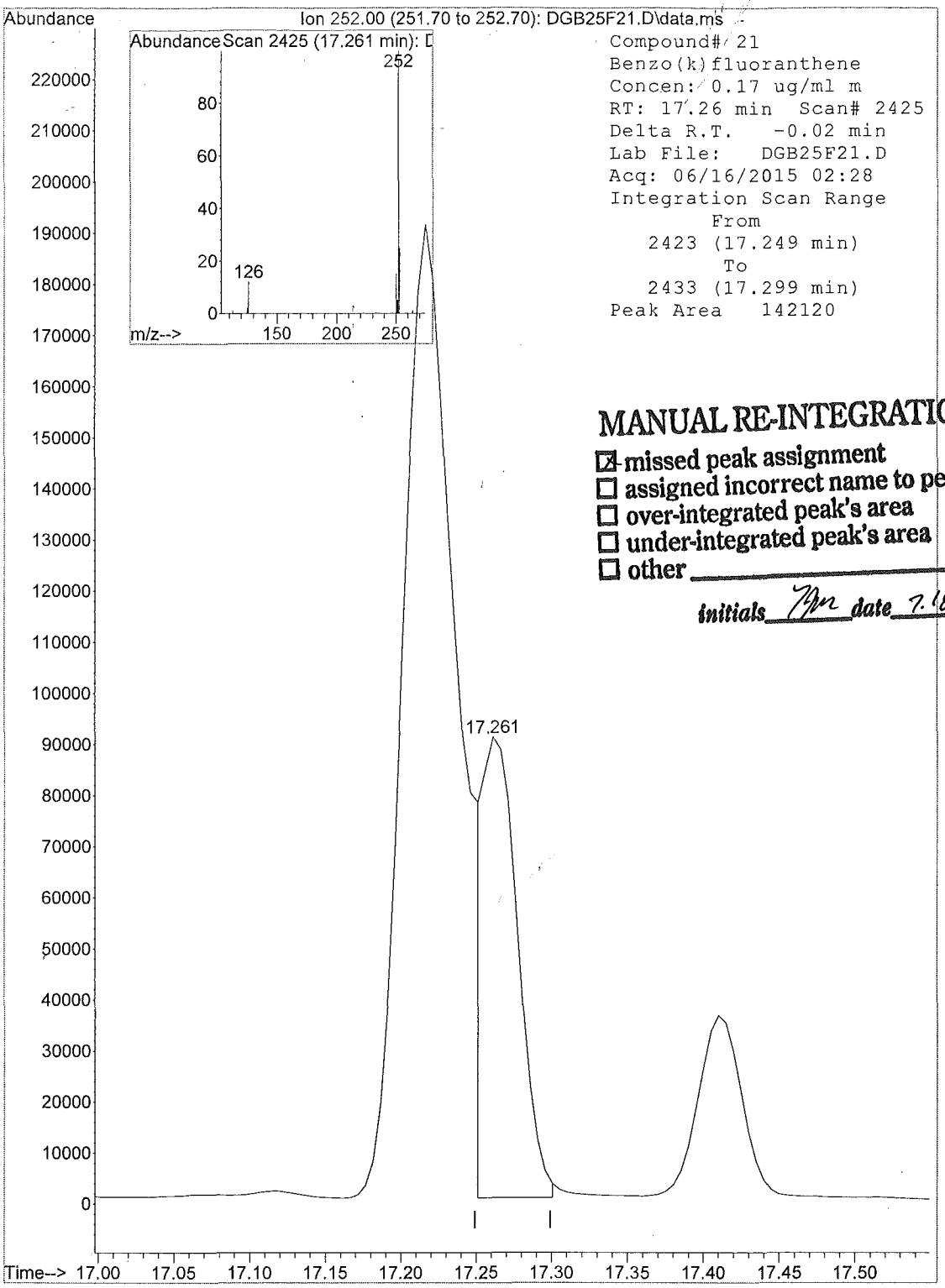
Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.06	136	206775	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	133686	0.40 ug/ml	
9) Phenanthrene-d10	11.35	188	236964	0.40 ug/ml	
15) Chrysene-d12	15.51	240	265502	0.40 ug/ml	
19) Perylene-d12	17.99	264	257766	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.00	152	5353	0.016ug/mL	
13) Fluoranthene-d10	13.49	212	10975	0.017ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.09	128	34181	0.063ug/ml	94
4) 2-Methylnaphthalene	7.05	142	9631	0.028ug/ml	98
6) Acenaphthylene	8.48	152	37005	0.063ug/ml	96
7) Acenaphthene	8.77	153	32618	0.087ug/ml	99
8) Fluorene	9.67	166	23448	0.054ug/ml	98
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.40	178	283988	0.416ug/ml	98
12) Anthracene	11.49	178	88210	0.133ug/ml	94
14) Fluoranthene	13.52	202	504660	0.650ug/ml	87
16) Pyrene	13.87	202	458510	0.550ug/ml	91
17) Benzo(a)anthracene	15.49	228	310329	0.438ug/ml	94
18) Chrysene	15.54	228	310238	0.415ug/ml	96
20) Benzo(b)fluoranthene	17.22	252	473268	0.589ug/ml	99
21) Benzo(k)fluoranthene	17.26	252	142120	0.171ug/ml m	98 7.18.15
22) Benzo(a)pyrene	17.87	252	272470	0.355ug/ml	96
23) Indeno(1,2,3-c,d)pyrene	20.82	276	229780	0.342ug/ml	100
24) Dibenzo(a,h)anthracene	20.89	278	55854	0.075ug/ml	89
25) Benzo(g,h,i)perylene	21.69	276	60235	0.080ug/ml	72

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

: 01021

M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene

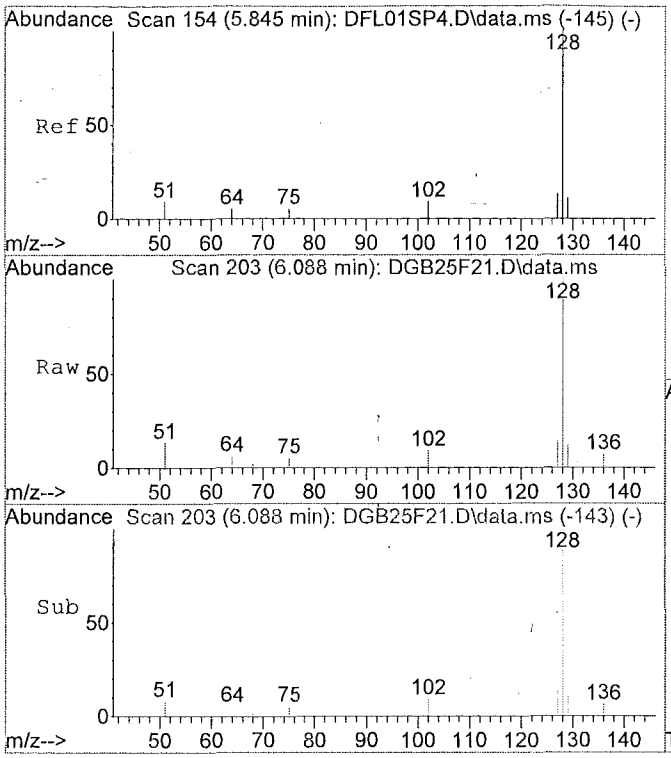


Compound# 21
Benzo(k)fluoranthene
Concen: 0.17 ug/ml m
RT: 17.26 min Scan# 2425
Delta R.T. -0.02 min
Lab File: DGB25F21.D
Acq: 06/16/2015 02:28
Integration Scan Range
From
2423 (17.249 min)
To
2433 (17.299 min)
Peak Area 142120

MANUAL RE-INTEGRATION

- ☒ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

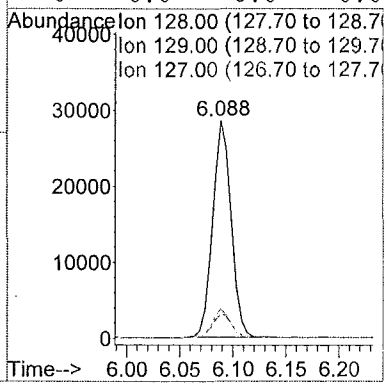
initials [illegible] *date* 7.18.15

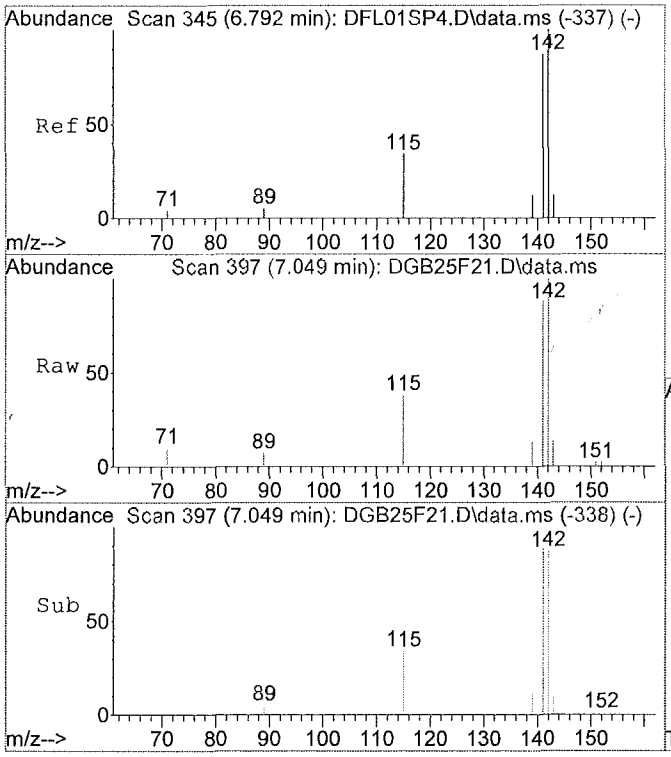


#2
Naphthalene
Concen: 0.06 ug/ml
RT: 6.09 min Scan# 203
Delta R.T. -0.00 min
Lab File: DGB25F21.D
Acq: 06/16/2015 02:28

Tgt Ion:128 Resp: 34181

Ion	Ratio	Lower	Upper
128	100		
129	11.0	0.0	0.0#
127	13.1	11.1	20.5
0	0.0	0.0	0.0

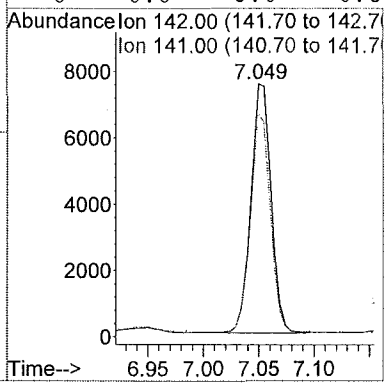


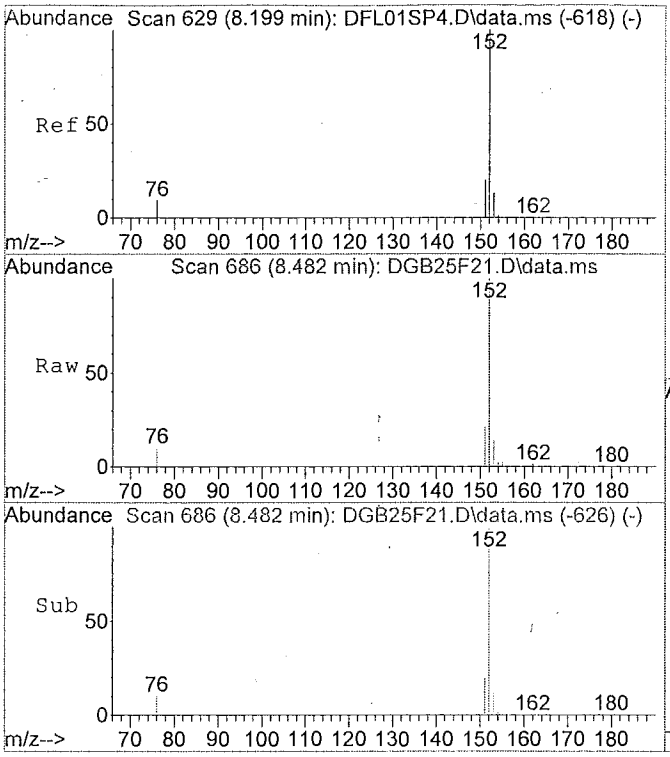


#4
2-Methylnaphthalene
Concen: 0.03 ug/ml
RT: 7.05 min Scan# 397
Delta R.T. -0.01 min
Lab File: DGB25F21.D
Acq: 06/16/2015 02:28

Tgt Ion:142 Resp: 9631

Ion	Ratio	Lower	Upper
142	100		
141	85.4	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

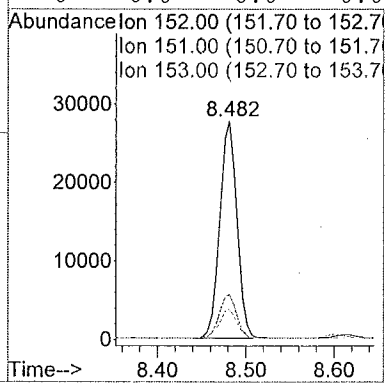


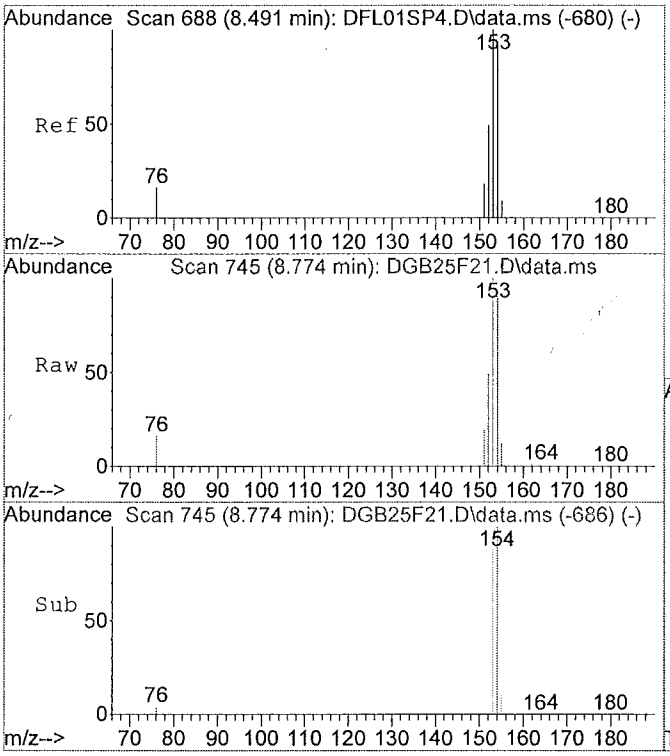


#6
Acenaphthylene
Concen: 0.06 ug/ml
RT: 8.48 min Scan# 686
Delta R.T. -0.00 min
Lab File: DGB25F21.D
Acq: 06/16/2015 02:28

Tgt Ion:152 Resp: 37005

Ion	Ratio	Lower	Upper
152	100		
151	20.3	15.5	28.7
153	14.0	8.8	16.4
0	0.0	0.0	0.0

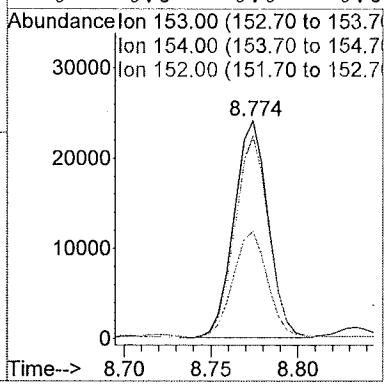


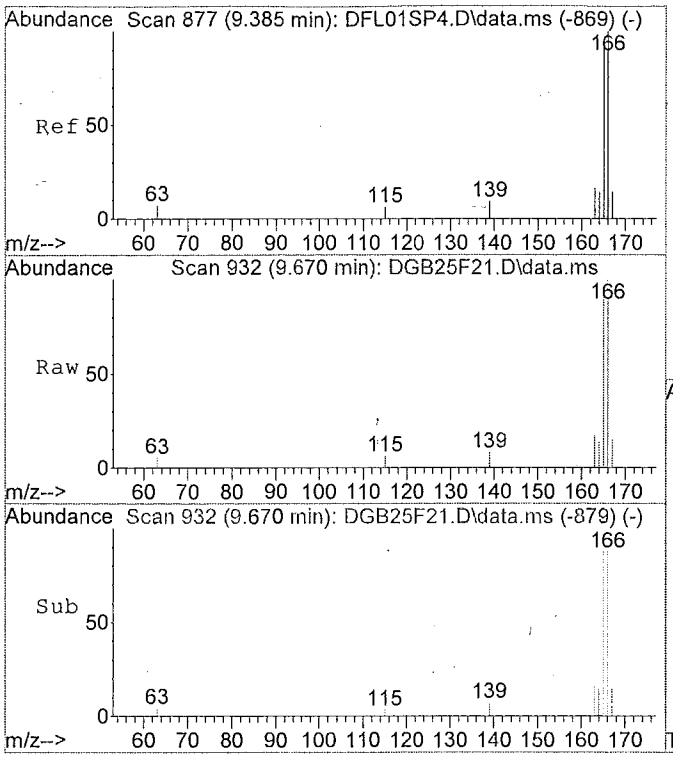


#7
Acenaphthene
Concen: 0.09 ug/ml
RT: 8.77 min Scan# 745
Delta R.T. -0.01 min
Lab File: DGB25F21.D
Acq: 06/16/2015 02:28

Tgt Ion:153 Resp: 32618

Ion	Ratio	Lower	Upper
153	100		
154	92.1	65.1	120.9
152	49.4	35.2	65.4
0	0.0	0.0	0.0

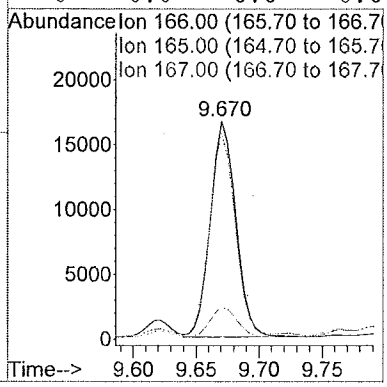


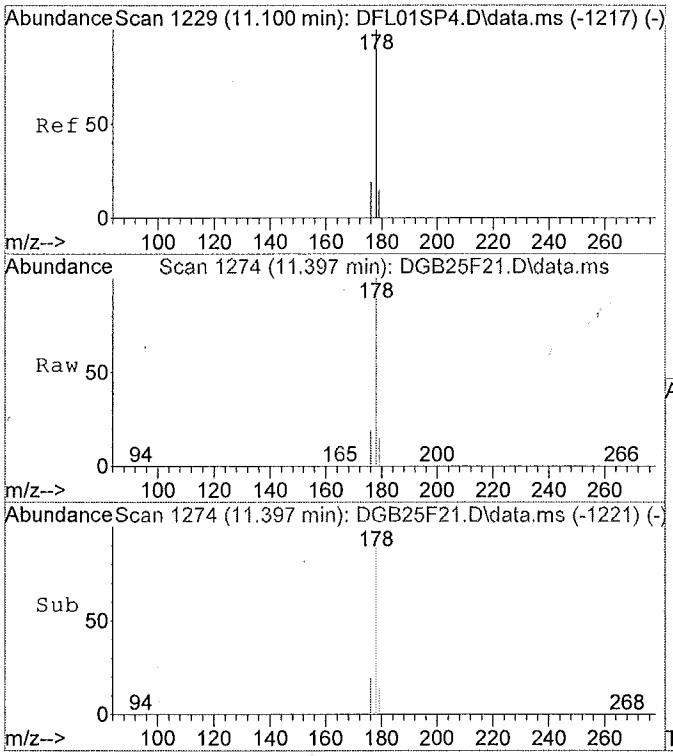


#8
Fluorene
Concen: 0.05 ug/ml
RT: 9.67 min Scan# 932
Delta R.T. -0.01 min
Lab File: DGB25F21.D
Acq: 06/16/2015 02:28

Tgt Ion:166 Resp: 23448

Ion	Ratio	Lower	Upper
166	100		
165	92.3	66.3	123.1
167	14.3	0.0	0.0#
0	0.0	0.0	0.0

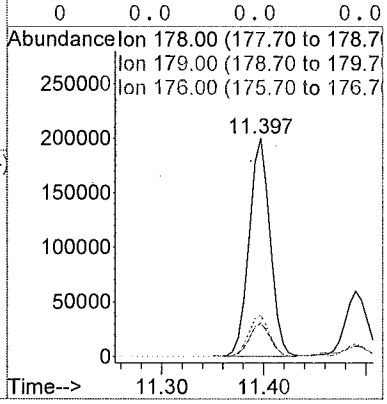




#11
Phenanthrene
Concen: 0.42 ug/ml
RT: 11.40 min Scan# 1274
Delta R.T. -0.01 min
Lab File: DGB25F21.D
Acq: 06/16/2015 02:28

Tgt Ion:178 Resp: 283988

Ion	Ratio	Lower	Upper
178	100		
179	15.4	11.1	20.5
176	19.1	14.1	26.1
0	0.0	0.0	0.0



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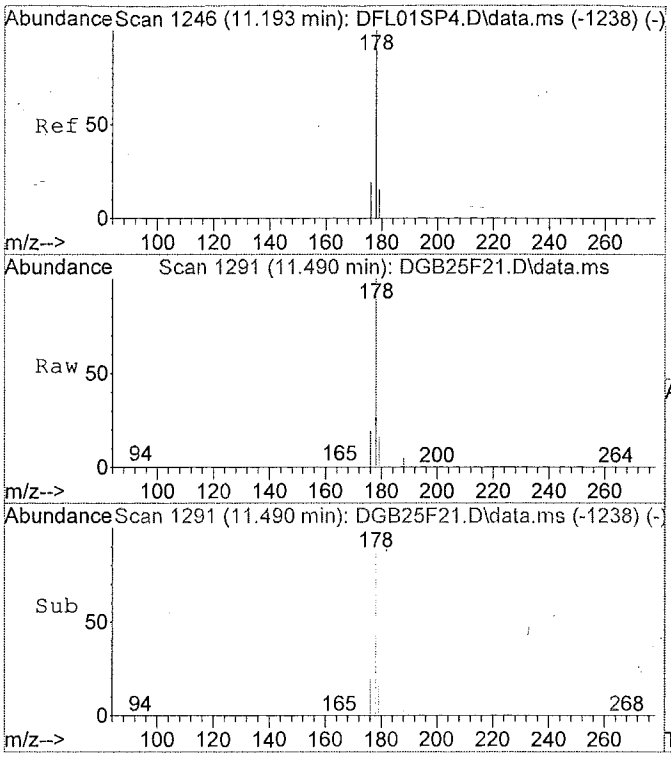
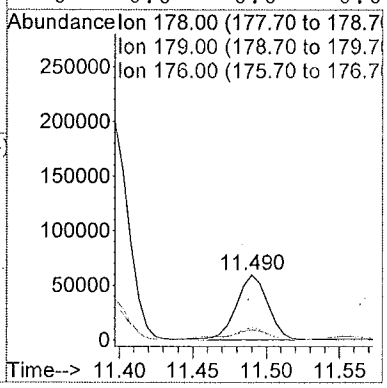
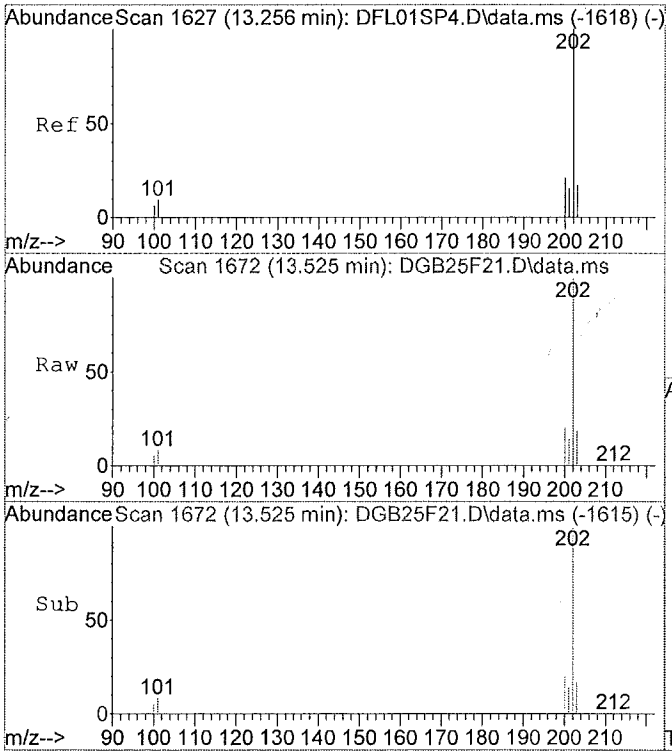


#12
Anthracene
Concen: 0.13 ug/ml
RT: 11.49 min Scan# 1291
Delta R.T. -0.01 min
Lab File: DGB25F21.D
Acq: 06/16/2015 02:28

Tgt Ion:178 Resp: 88210

Ion	Ratio	Lower	Upper
178	100		
179	20.3	11.6	21.6
176	18.1	13.9	25.7
0	0.0	0.0	0.0

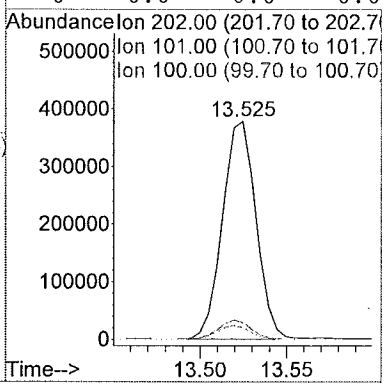


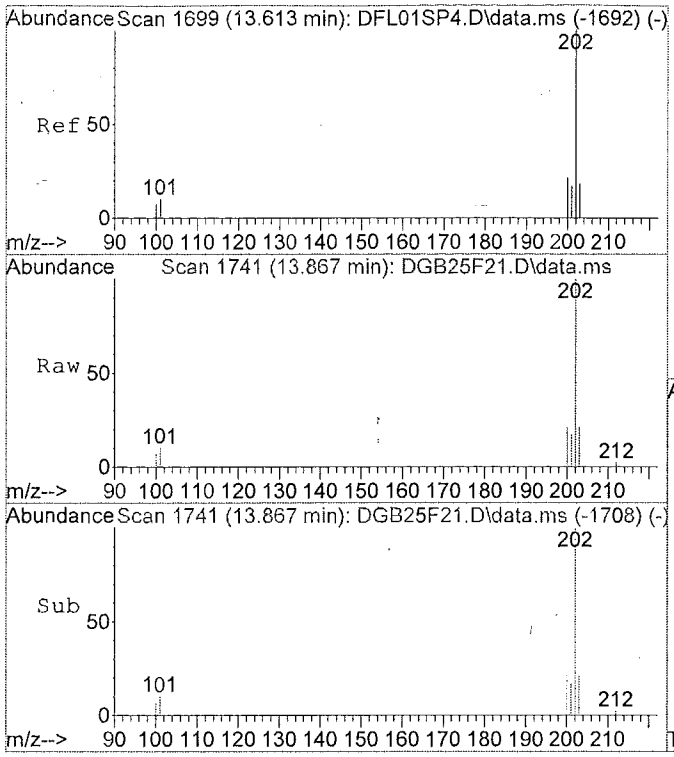


#14
Fluoranthene
Concen: 0.65 ug/ml
RT: 13.52 min Scan# 1672
Delta R.T. -0.01 min
Lab File: DGB25F21.D
Acq: 06/16/2015 02:28

Tgt Ion:202 Resp: 504660

Ion	Ratio	Lower	Upper
202	100		
101	8.5	9.4	17.6#
100	6.2	0.0	0.0#
0	0.0	0.0	0.0

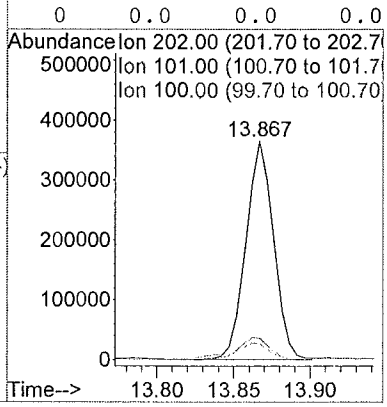


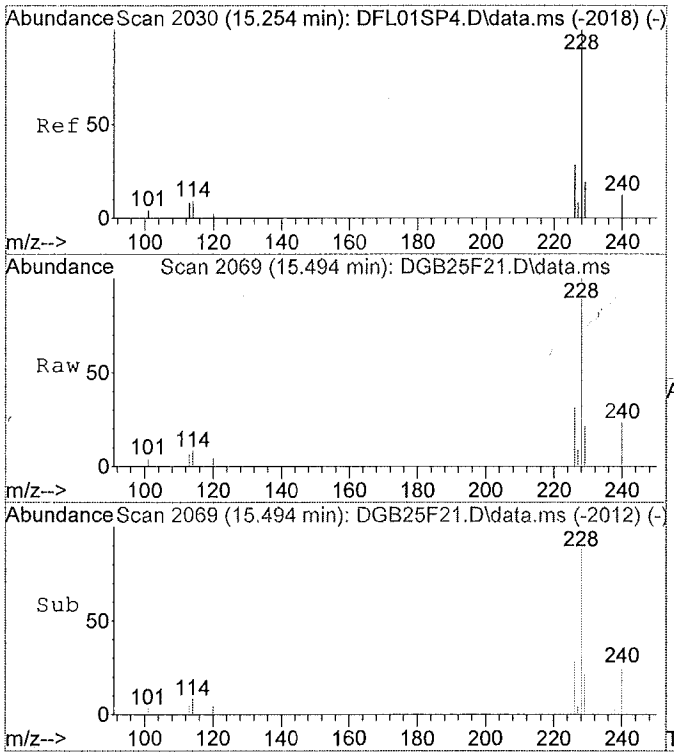


#16
Pyrene
Concen: 0.55 ug/ml
RT: 13.87 min Scan# 1741
Delta R.T. -0.01 min
Lab File: DGB25F21.D
Acq: 06/16/2015 02:28

Tgt Ion:202 Resp: 458510

Ion	Ratio	Lower	Upper
202	100		
101	11.0	10.6	19.6
100	10.0	9.4	17.4
0	0.0	0.0	0.0

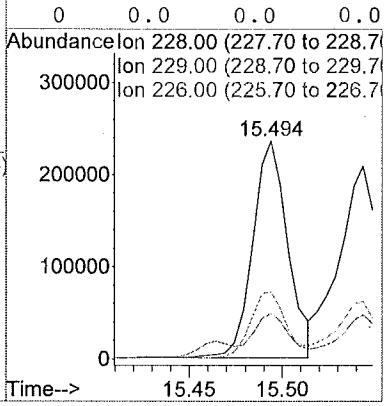


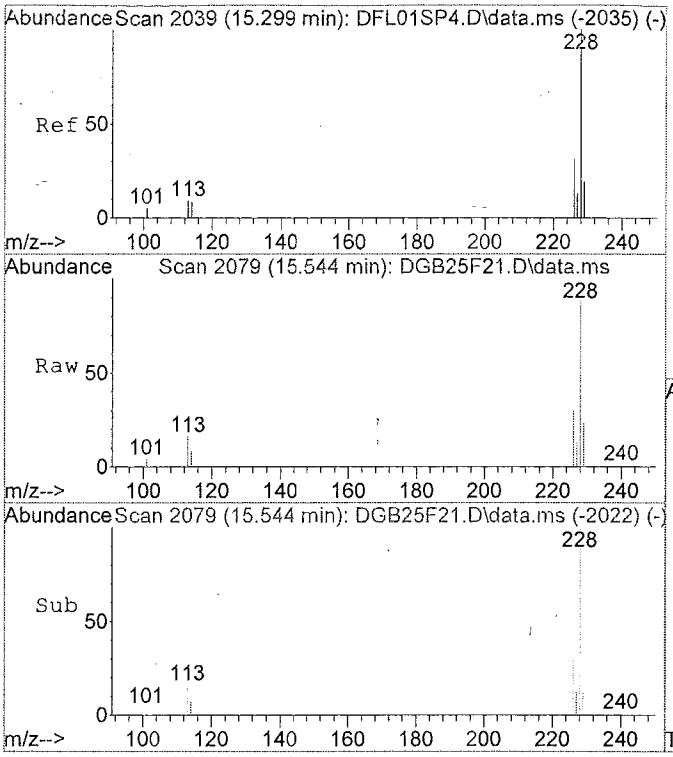


#17
Benzo(a)anthracene
Concen: 0.44 ug/ml
RT: 15.49 min Scan# 2069
Delta R.T. -0.01 min
Lab File: DGB25F21.D
Acq: 06/16/2015 02:28

Tgt Ion:228 Resp: 310329

Ion	Ratio	Lower	Upper
228	100		
229	20.0	14.5	26.9
226	31.7	18.5	34.3
0	0.0	0.0	0.0

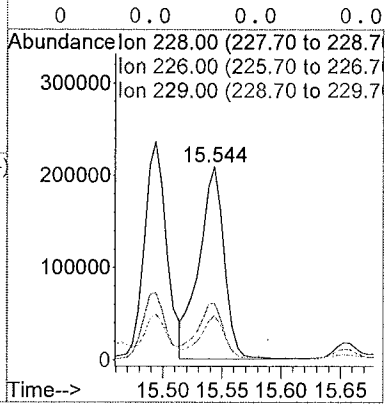


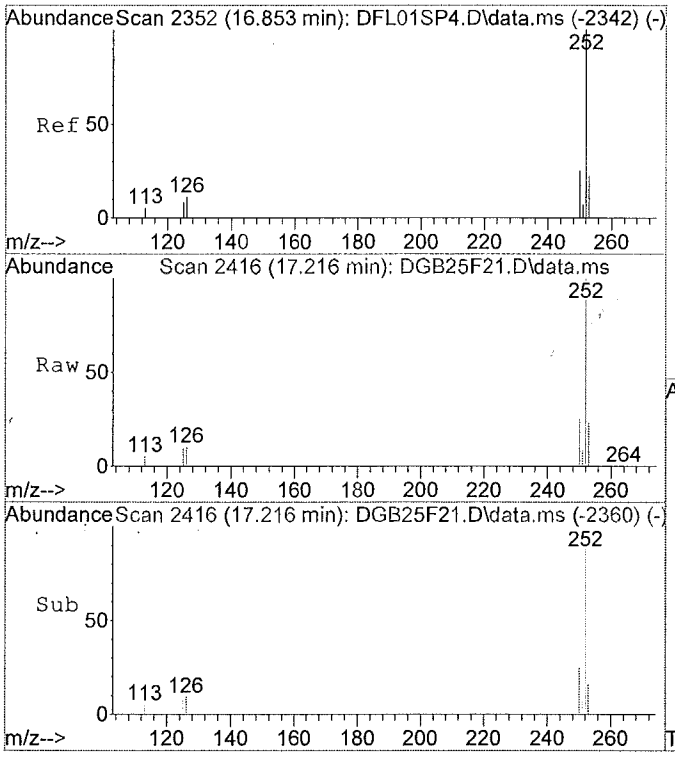


#18
Chrysene
Concen: 0.41 ug/ml
RT: 15.54 min Scan# 2079
Delta R.T. -0.01 min
Lab File: DGB25F21.D
Acq: 06/16/2015 02:28

Tgt Ion:228 Resp: 310238

Ion	Ratio	Lower	Upper
228	100		
226	30.6	19.7	36.7
229	22.4	14.5	26.9
0	0.0	0.0	0.0

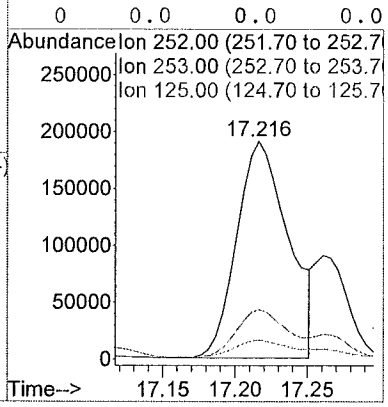




#20
Benzo(b)fluoranthene
Concen: 0.59 ug/ml
RT: 17.22 min Scan# 2416
Delta R.T. -0.01 min
Lab File: DGB25F21.D
Acq: 06/16/2015 02:28

Tgt Ion:252 Resp: 473268

Ion	Ratio	Lower	Upper
252	100		
253	22.2	15.3	28.3
125	10.9	0.0	0.0#
0	0.0	0.0	0.0



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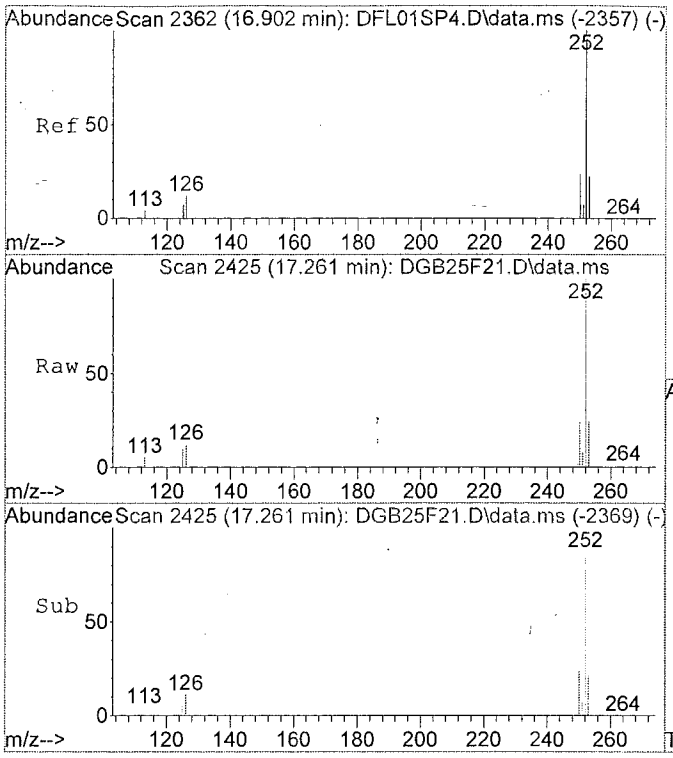
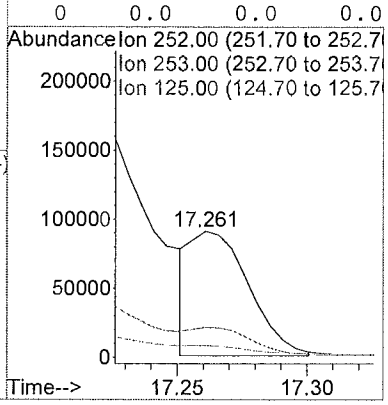
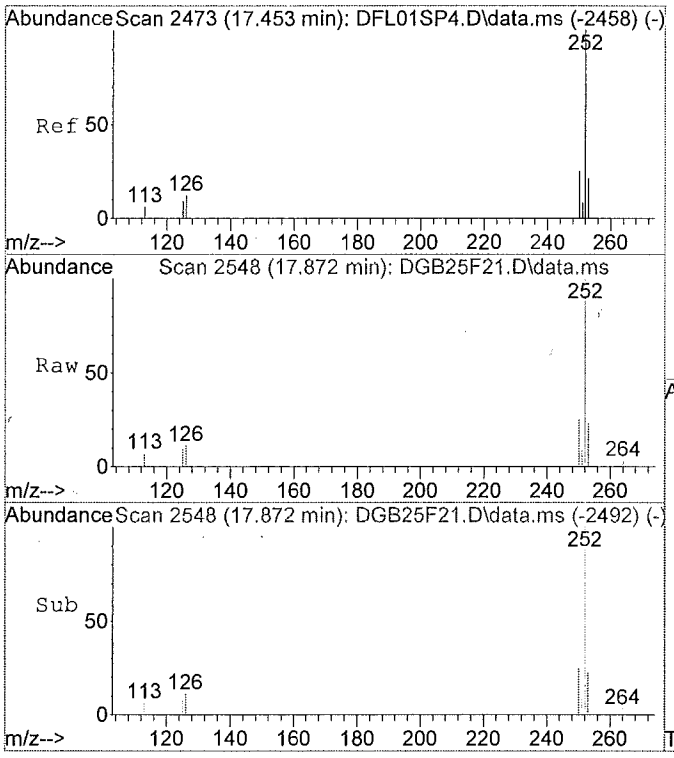


#21
Benzo(k)fluoranthene
Concen: 0.17 ug/ml m
RT: 17.26 min Scan# 2425
Delta R.T. -0.02 min
Lab File: DGB25F21.D
Acq: 06/16/2015 02:28

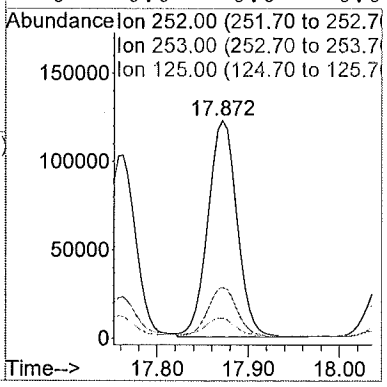
Tgt Ion:252	Resp:	142120	
Ion	Ratio	Lower	Upper
252	100		
253	73.8	15.0	27.8#
125	36.4	0.0	0.0#
0	0.0	0.0	0.0

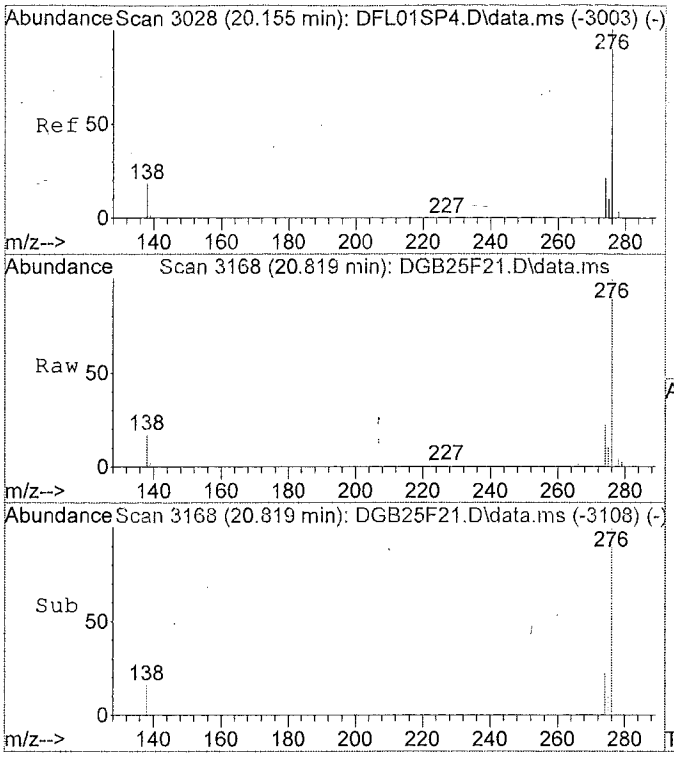




#22
Benzo(a)pyrene
Concen: 0.35 ug/ml
RT: 17.87 min Scan# 2548
Delta R.T. -0.02 min
Lab File: DGB25F21.D
Acq: 06/16/2015 02:28

Tgt Ion:252	Resp:	272470	
Ion	Ratio	Lower	Upper
252	100		
253	23.3	15.0	27.8
125	8.6	0.0	0.0#
0	0.0	0.0	0.0

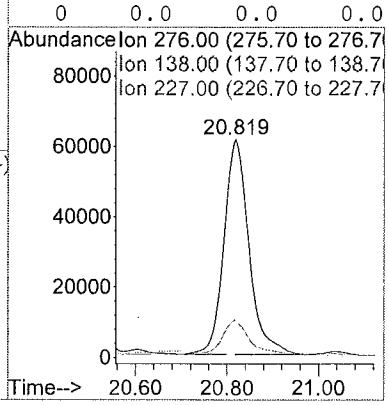


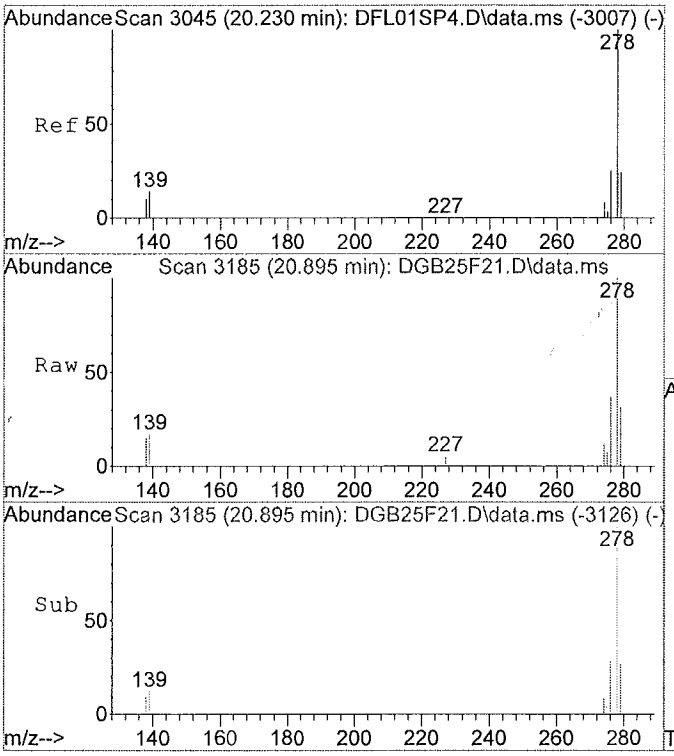


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.34 ug/ml
RT: 20.82 min Scan# 3168
Delta R.T. -0.03 min
Lab File: DGB25F21.D
Acq: 06/16/2015 02:28

Tgt Ion:276 Resp: 229780

Ion	Ratio	Lower	Upper
276	100		
138	18.3	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

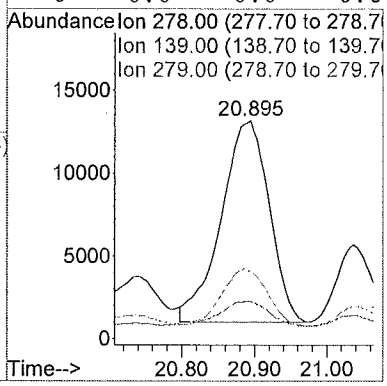


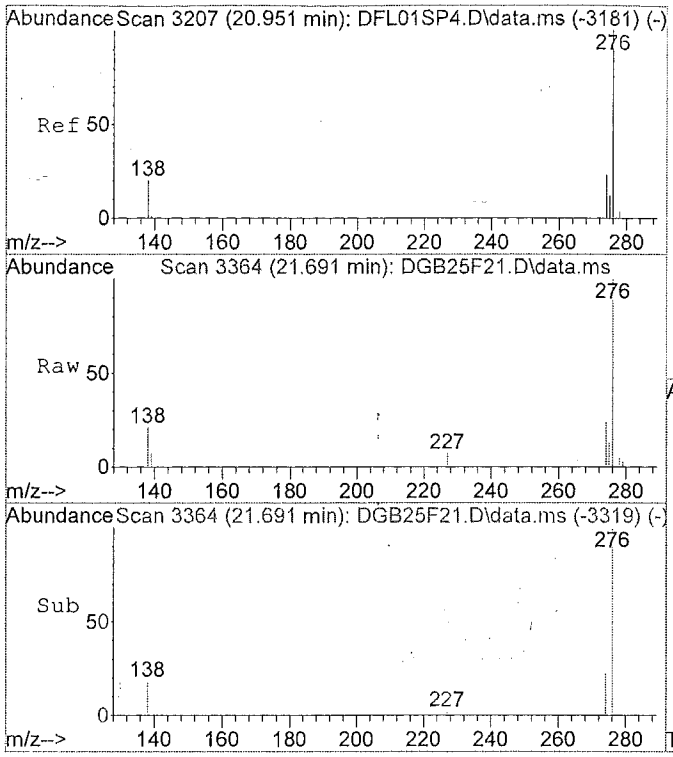


#24
Dibenzo(a,h)anthracene
Concen: 0.08 ug/ml
RT: 20.89 min Scan# 3185
Delta R.T. -0.04 min
Lab File: DGB25F21.D
Acq: 06/16/2015 02:28

Tgt Ion:278 Resp: 55854

Ion	Ratio	Lower	Upper
278	100		
139	12.7	0.0	0.0#
279	27.7	15.8	29.3
0	0.0	0.0	0.0

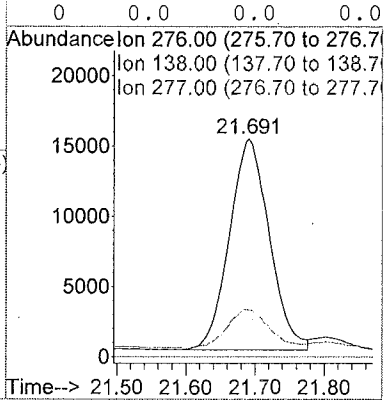




#25
Benzo(g,h,i)perylene
Concen: 0.08 ug/ml
RT: 21.69 min Scan# 3364
Delta R.T. -0.03 min
Lab File: DGB25F21.D
Acq: 06/16/2015 02:28

Tgt Ion:276 Resp: 60235

Ion	Ratio	Lower	Upper
276	100		
138	19.1	16.2	30.0
277	0.0	16.5	30.7#
0	0.0	0.0	0.0



1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M41

Lab Name: ALS Environmental Contract: EPW11037

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

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

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DGB26F22

Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/03/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/16/2015

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 5.0

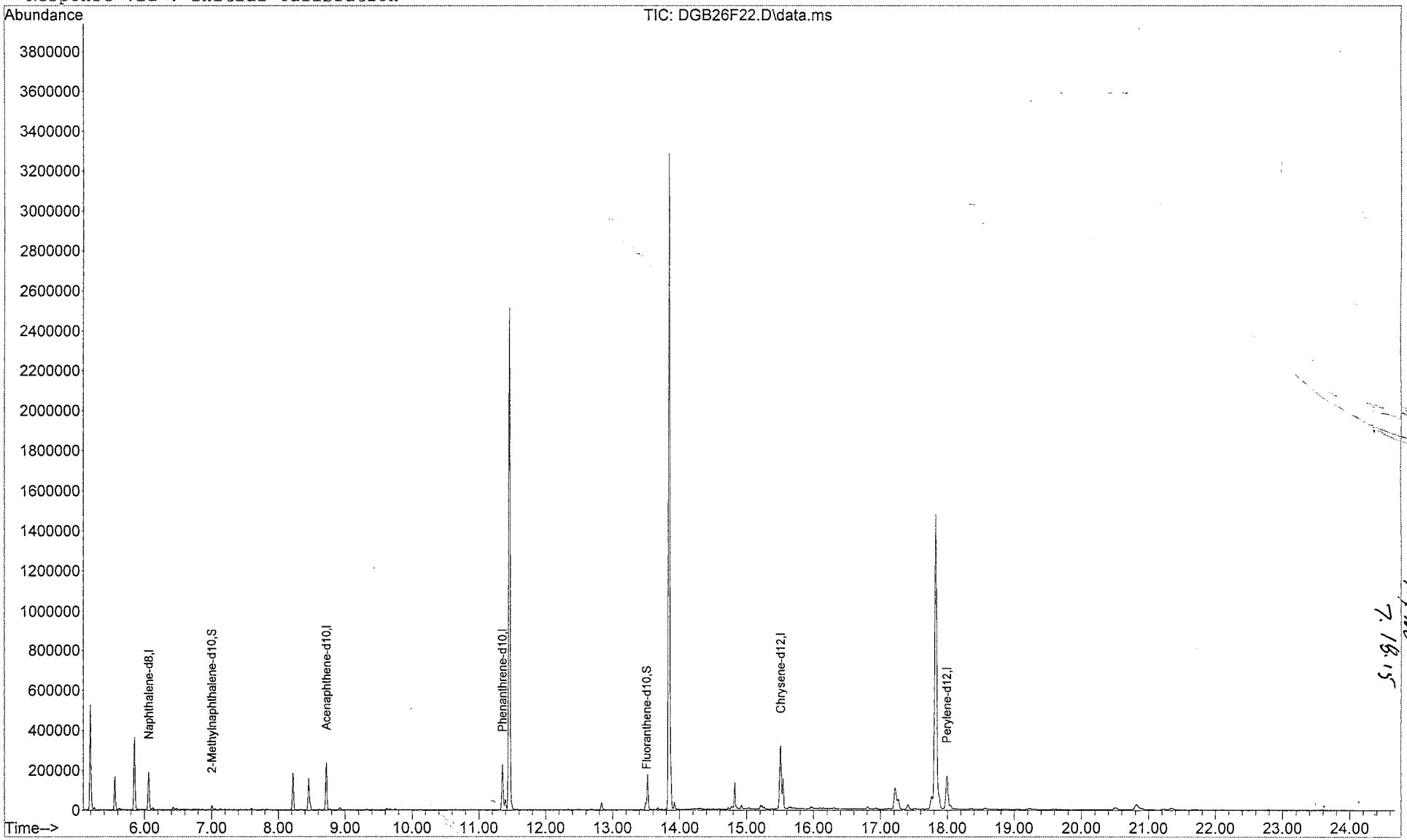
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	19.	U
91-57-6	2-Methylnaphthalene	19.	U
208-96-8	Acenaphthylene	6.5	J
83-32-9	Acenaphthene	19.	U
86-73-7	Fluorene	19.	U
87-86-5	Pentachlorophenol	39.	U
85-01-8	Phenanthrene	12.	J
120-12-7	Anthracene	5.5	J
206-44-0	Fluoranthene	27.	
129-00-0	Pyrene	29.	
56-55-3	Benzo(a)anthracene	20.	
218-01-9	Chrysene	22.	
205-99-2	Benzo(b)fluoranthene	30.	
207-08-9	Benzo(k)fluoranthene	8.4	J
50-32-8	Benzo(a)pyrene	14.	J
193-39-5	Indeno(1,2,3-cd)pyrene	16.	J
53-70-3	Dibenzo(a,h)anthracene	19.	U
191-24-2	Benzo(g,h,i)perylene	19.	U

Quantitation Report

Data File : R:\D\2015\JUN15\15JUN15\15JUN15\DGB26F22.D Vial: 23
Acq On : 06/16/2015 02:58 Operator: SY
Sample : 1515542022 F9M41 (5) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 17 15:09:13 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



Quantitation Report

Data File : R:\D\2015\JUN15\15JUN15\15JUN15\DGB26F22.D Vial: 23
Acq On : 06/16/2015 02:58 Operator: SY
Sample : 1515542022 F9M41 (5) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 17 15:09:13 2015 Results File: DSOM_SIMJ2.RES

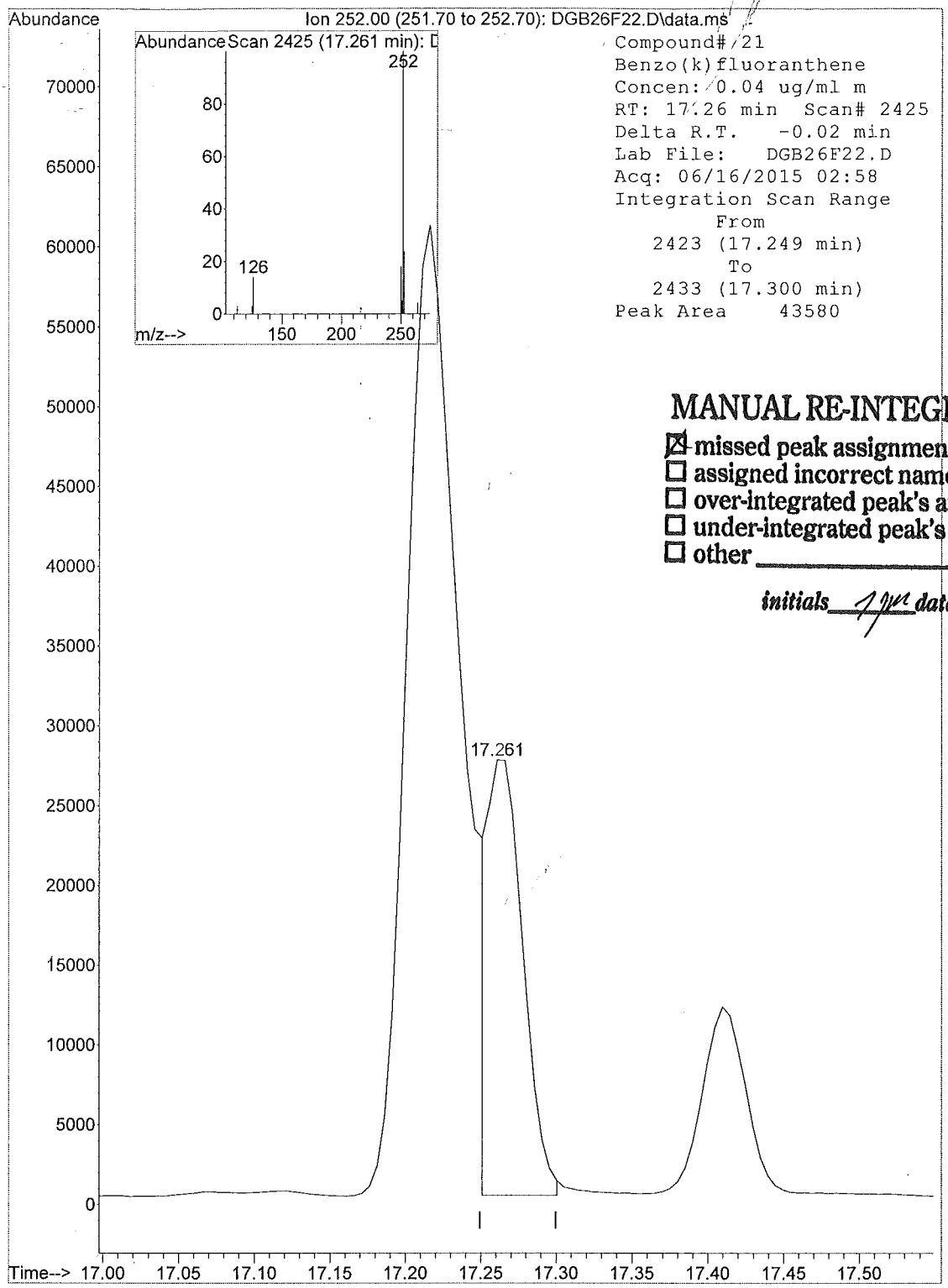
Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.06	136	213497	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	155473	0.40 ug/ml	
9) Phenanthrene-d10	11.35	188	308791	0.40 ug/ml	
15) Chrysene-d12	15.51	240	319966	0.40 ug/ml	
19) Perylene-d12	17.99	264	311473	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.00	152	22100	0.064ug/mL	
13) Fluoranthene-d10	13.49	212	38673	0.046ug/mL	
Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	0.00	142		Not Detected	
6) Acenaphthylene	8.48	152	22626	0.033ug/ml	94
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.40	178	55272	0.062ug/ml	99
12) Anthracene	11.49	178	24213	0.028ug/ml	96
14) Fluoranthene	13.52	202	137820	0.136ug/ml	89
16) Pyrene	13.87	202	148259	0.148ug/ml	73
17) Benzo(a)anthracene	15.49	228	86326	0.101ug/ml	86
18) Chrysene	15.54	228	100961	0.112ug/ml	96
20) Benzo(b)fluoranthene	17.22	252	147720	0.152ug/ml	99
21) Benzo(k)fluoranthene	17.26	252	43580	0.043ug/ml m	99
22) Benzo(a)pyrene	17.87	252	68114	0.073ug/ml	95
23) Indeno(1,2,3-c,d)pyrene	20.82	276	67289	0.083ug/ml	100
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	0.00	276		Not Detected	

7.18.15

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

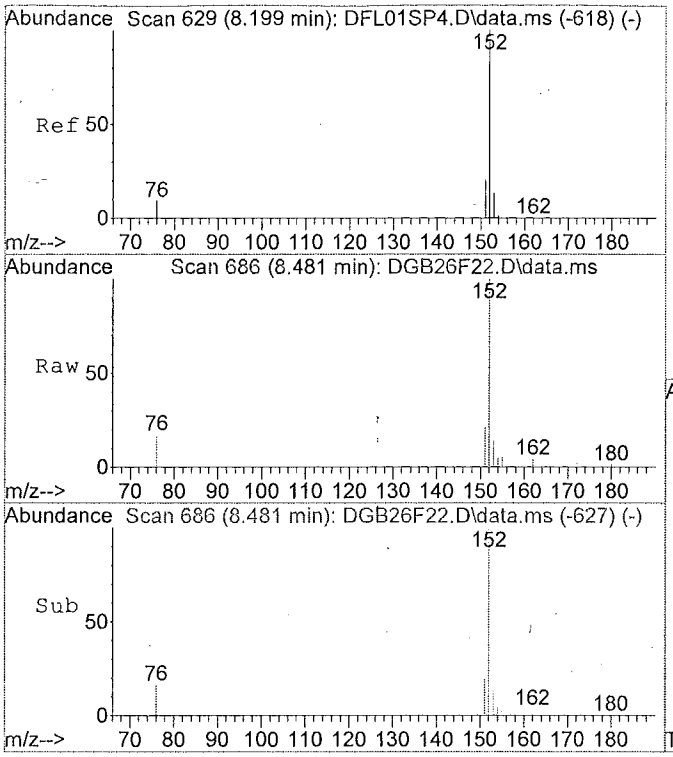
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- ☒ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

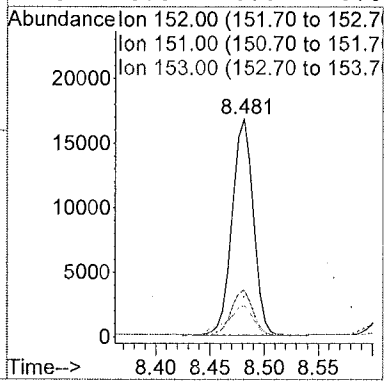
initials MJ *date* 7.18.15

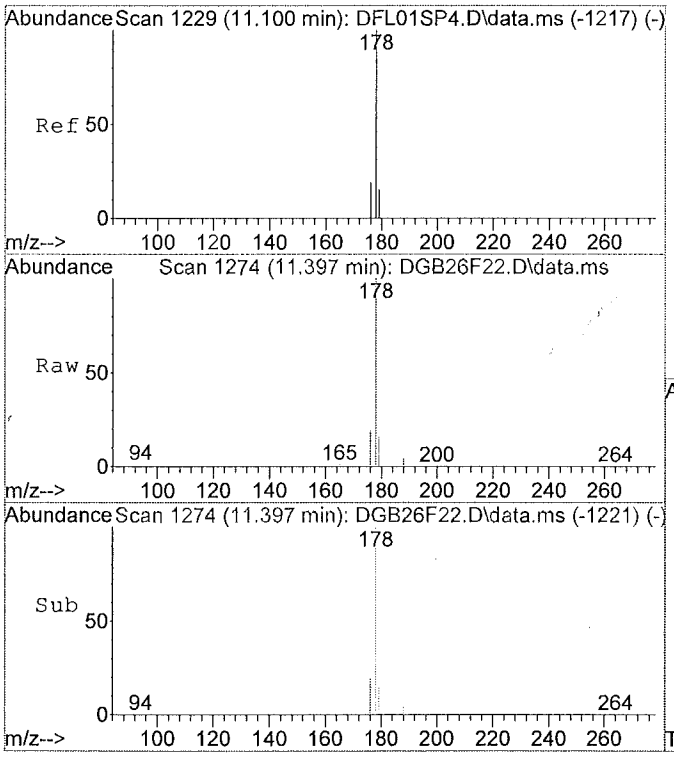


#6
Acenaphthylene
Concen: 0.03 ug/ml
RT: 8.48 min Scan# 686
Delta R.T. -0.00 min
Lab File: DGB26F22.D
Acq: 06/16/2015 02:58

Tgt Ion:152 Resp: 22626

Ion	Ratio	Lower	Upper
152	100		
151	20.7	15.5	28.7
153	17.4	8.8	16.4#
0	0.0	0.0	0.0

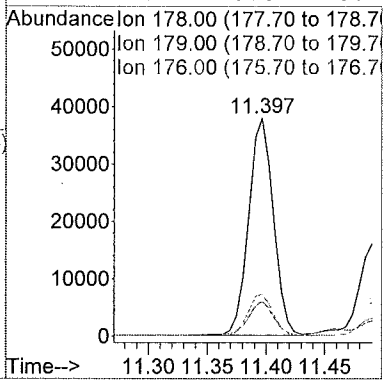


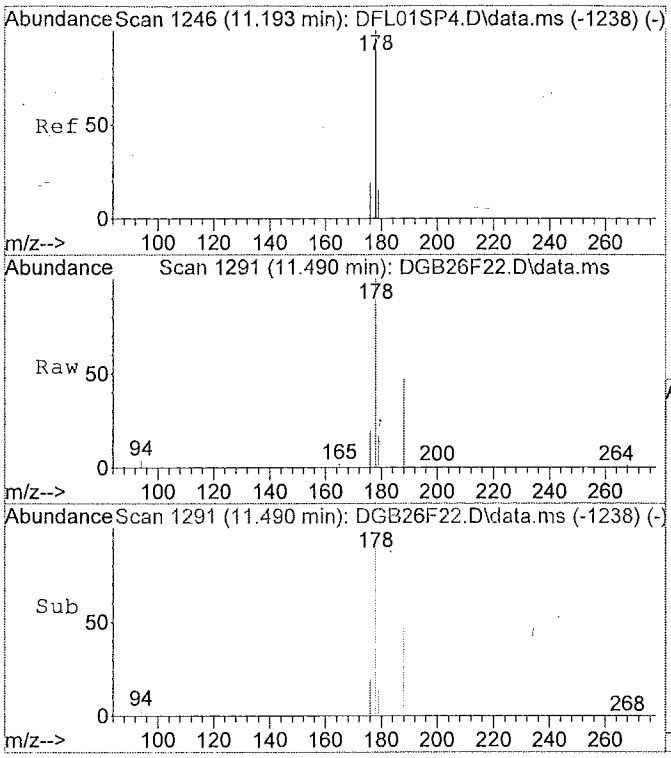


#11
Phenanthrene
Concen: 0.06 ug/ml
RT: 11.40 min Scan# 1274
Delta R.T. -0.01 min
Lab File: DGB26F22.D
Acq: 06/16/2015 02:58

Tgt Ion:178 Resp: 55272

Ion	Ratio	Lower	Upper
178	100		
179	16.1	11.1	20.5
176	19.4	14.1	26.1
0	0.0	0.0	0.0

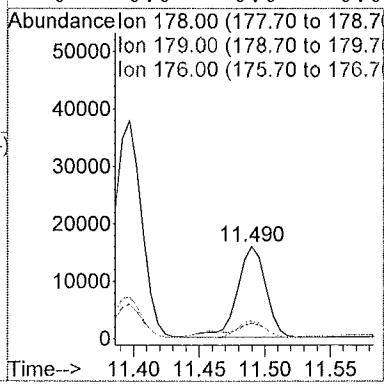


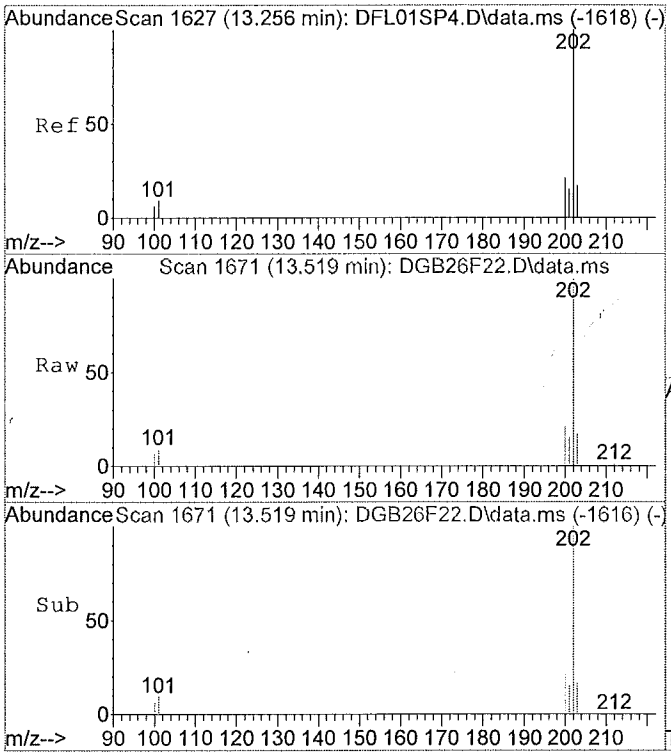


#12
Anthracene
Concen: 0.03 ug/ml
RT: 11.49 min Scan# 1291
Delta R.T. -0.01 min
Lab File: DGB26F22.D
Acq: 06/16/2015 02:58

Tgt Ion:178 Resp: 24213

Ion	Ratio	Lower	Upper
178	100		
179	14.4	11.6	21.6
176	18.6	13.9	25.7
0	0.0	0.0	0.0

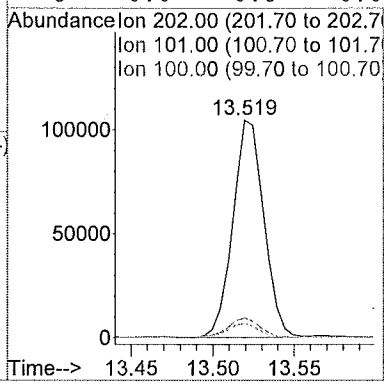


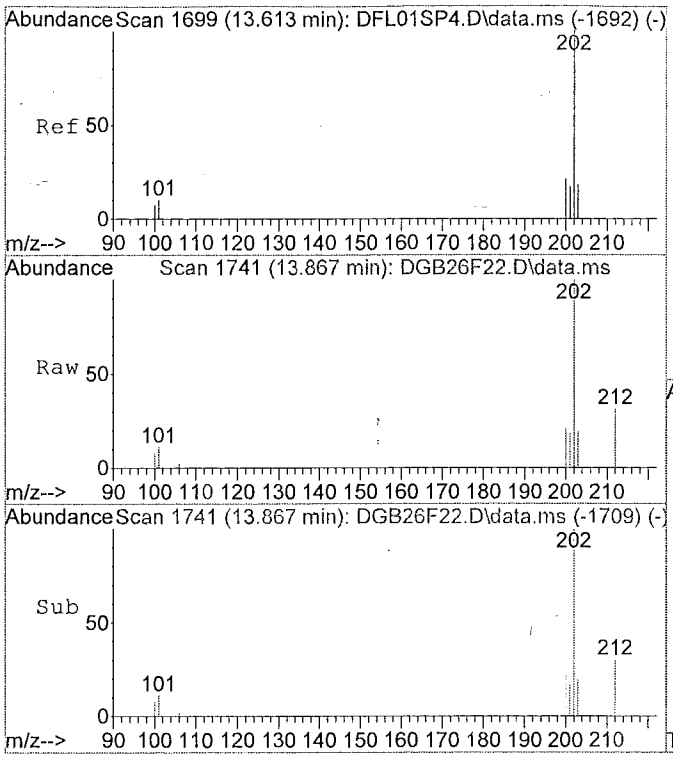


#14
Fluoranthene
Concen: 0.14 ug/ml
RT: 13.52 min Scan# 1671
Delta R.T. -0.01 min
Lab File: DGB26F22.D
Acq: 06/16/2015 02:58

Tgt Ion:202 Resp: 137820

Ion	Ratio	Lower	Upper
202	100		
101	9.1	9.4	17.6#
100	6.8	0.0	0.0#
0	0.0	0.0	0.0

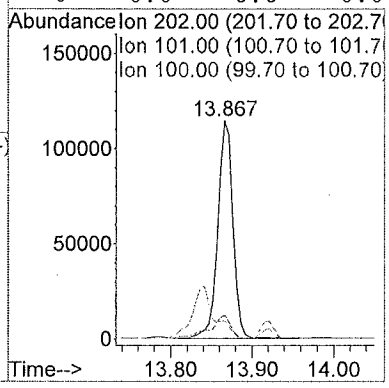


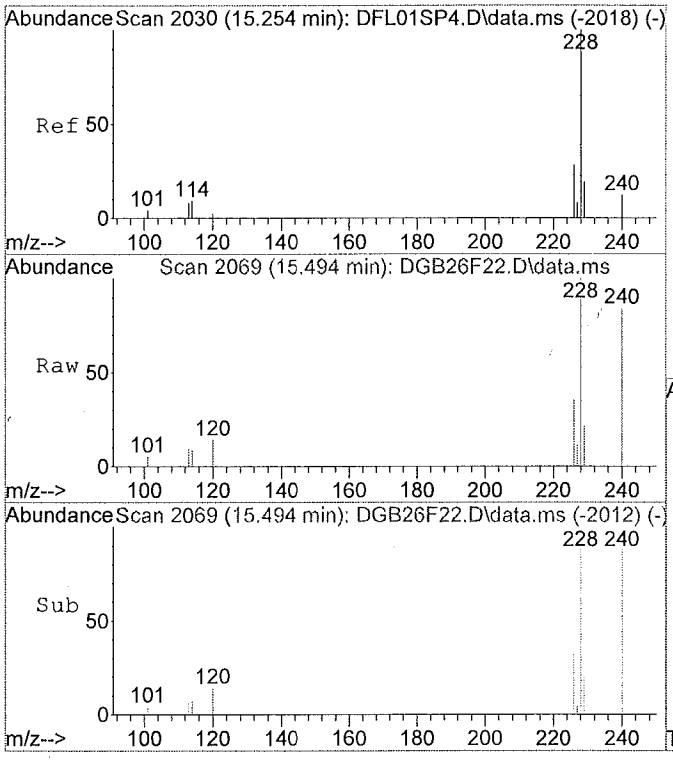


#16
Pyrene
Concen: 0.15 ug/ml
RT: 13.87 min Scan# 1741
Delta R.T. -0.01 min
Lab File: DGB26F22.D
Acq: 06/16/2015 02:58

Tgt Ion:202 Resp: 148259

Ion	Ratio	Lower	Upper
202	100		
101	14.9	10.6	19.6
100	35.9	9.4	17.4#
0	0.0	0.0	0.0

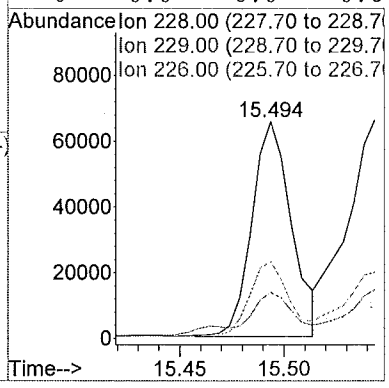


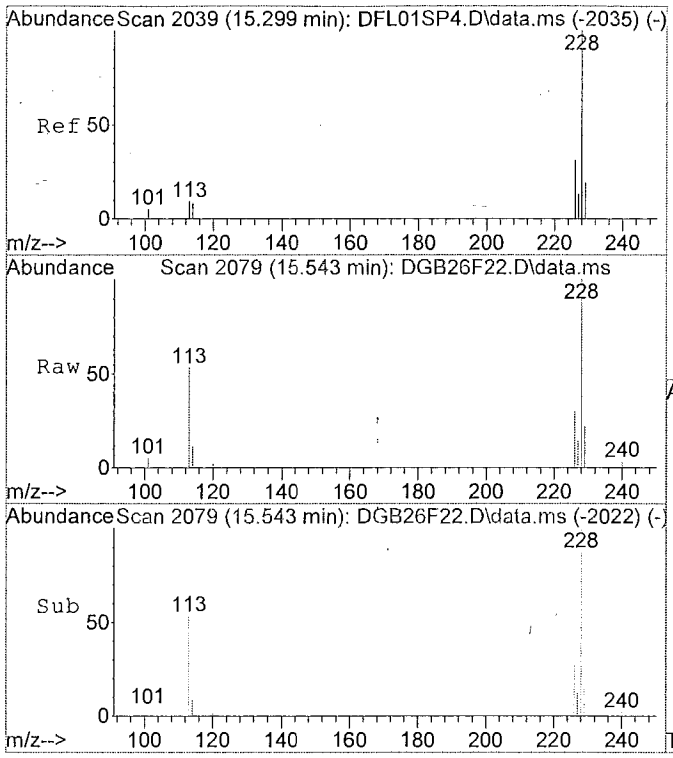


#17
Benzo(a)anthracene
Concen: 0.10 ug/ml
RT: 15.49 min Scan# 2069
Delta R.T. -0.01 min
Lab File: DGB26F22.D
Acq: 06/16/2015 02:58

Tgt Ion:228 Resp: 86326

Ion	Ratio	Lower	Upper
228	100		
229	25.6	14.5	26.9
226	35.0	18.5	34.3#
0	0.0	0.0	0.0

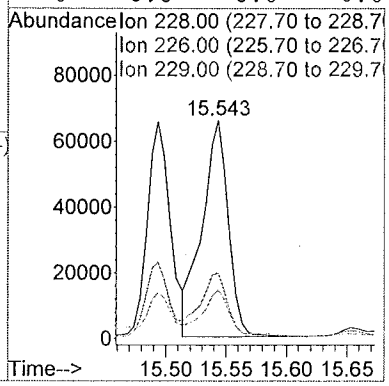


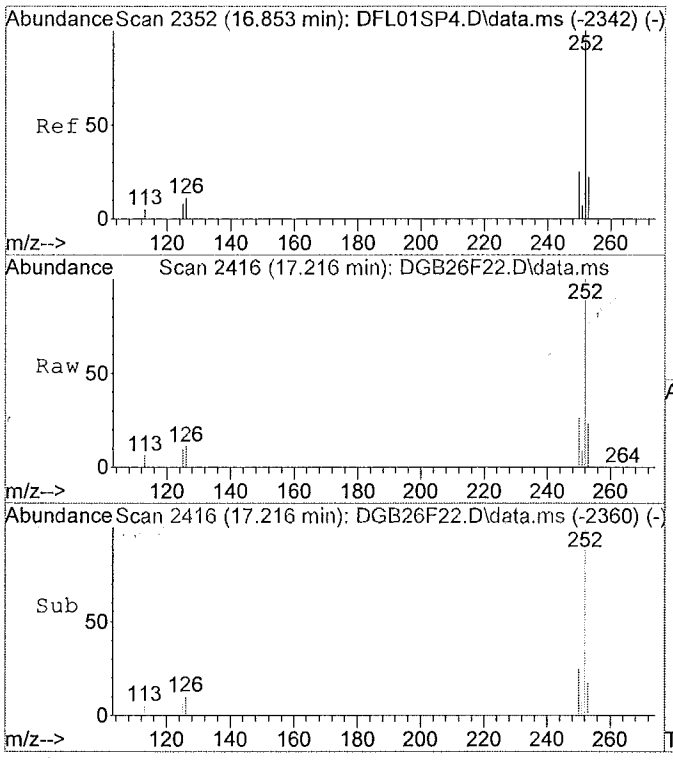


#18
Chrysene
Concen: 0.11 ug/ml
RT: 15.54 min Scan# 2079
Delta R.T. -0.01 min
Lab File: DGB26F22.D
Acq: 06/16/2015 02:58

Tgt Ion:228 Resp: 100961

Ion	Ratio	Lower	Upper
228	100		
226	30.8	19.7	36.7
229	19.1	14.5	26.9
0	0.0	0.0	0.0

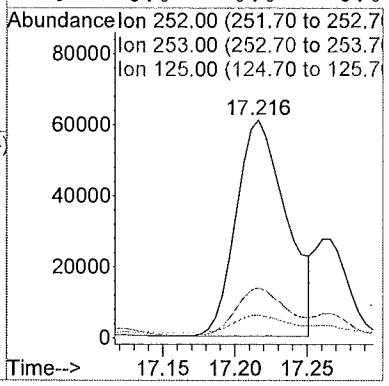




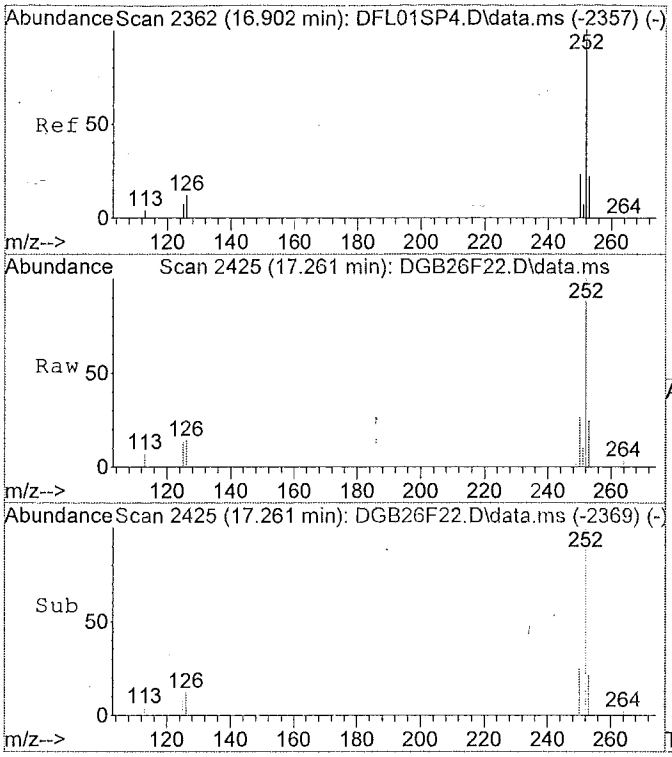
#20
Benzo(b)fluoranthene
Concen: 0.15 ug/ml
RT: 17.22 min Scan# 2416
Delta R.T. -0.01 min
Lab File: DGB26F22.D
Acq: 06/16/2015 02:58

Tgt Ion:252 Resp: 147720

Ion	Ratio	Lower	Upper
252	100		
253	22.1	15.3	28.3
125	8.5	0.0	0.0#
0	0.0	0.0	0.0



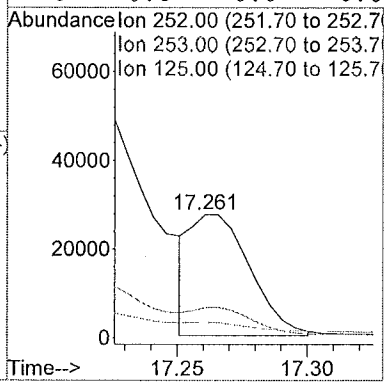
01630

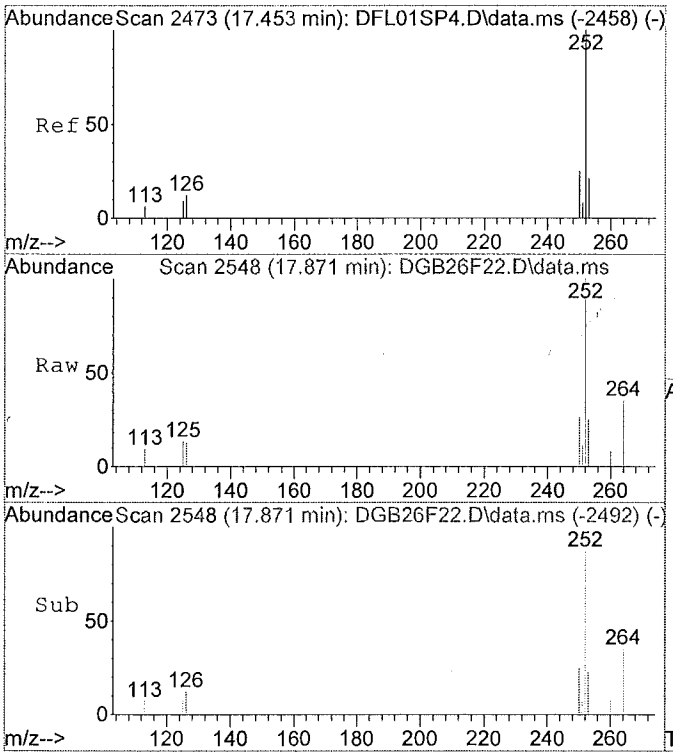


#21
Benzo(k)fluoranthene
Concen: 0.04 ug/ml m
RT: 17.26 min Scan# 2425
Delta R.T. -0.02 min
Lab File: DGB26F22.D
Acq: 06/16/2015 02:58

Tgt Ion:252 Resp: 43580

Ion	Ratio	Lower	Upper
252	100		
253	74.8	15.0	27.8#
125	28.8	0.0	0.0#
0	0.0	0.0	0.0

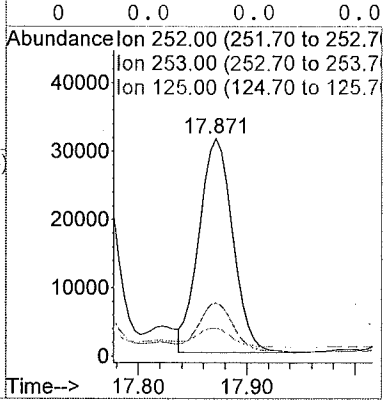


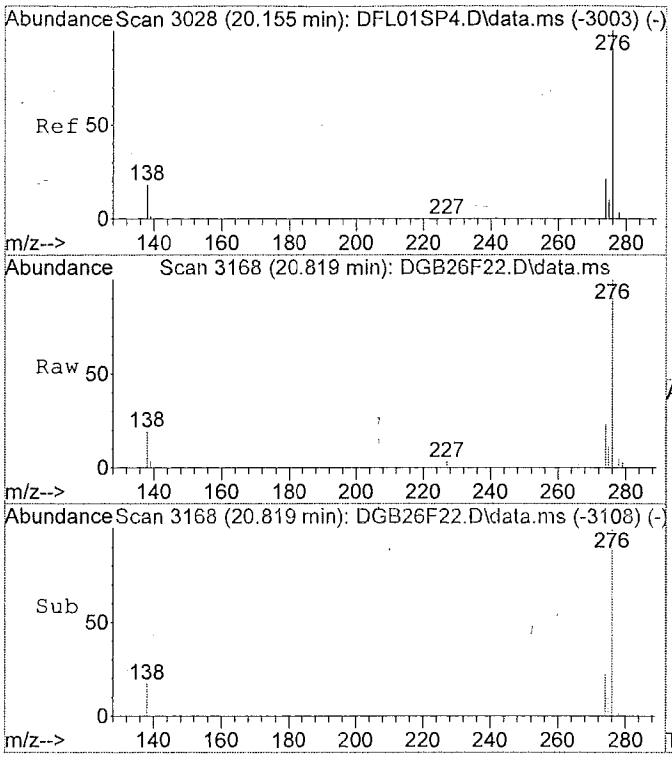


#22
Benzo(a)pyrene
Concen: 0.07 ug/ml
RT: 17.87 min Scan# 2548
Delta R.T. -0.02 min
Lab File: DGB26F22.D
Acq: 06/16/2015 02:58

Tgt Ion:252 Resp: 68114

Ion	Ratio	Lower	Upper
252	100		
253	23.6	15.0	27.8
125	9.7	0.0	0.0#
0	0.0	0.0	0.0

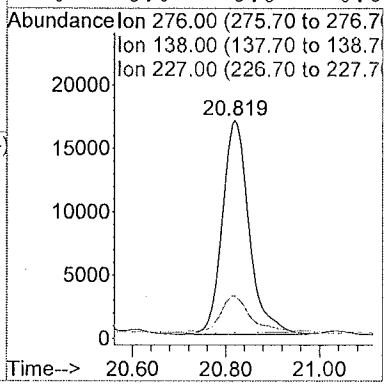




#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.08 ug/ml
RT: 20.82 min Scan# 3168
Delta R.T. -0.03 min
Lab File: DGB26F22.D
Acq: 06/16/2015 02:58

Tgt Ion:276 Resp: 67289

Ion	Ratio	Lower	Upper
276	100		
138	18.5	0.0	0.0#
227	0.1	0.0	0.0#
0	0.0	0.0	0.0



6H - FORM VI SV-SIM
SEMIVOLATILE ORGANICS SIM INITIAL CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

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

Instrument ID: 5975-D Calibration Date(s): 03/25/2015 03/25/2015

Calibration Time(s): 09:26 11:25

LAB FILE ID: RRF 0.1 = DDG01SP1 RRF 0.2 = DDG02SP2
RRF 0.4 = DDG03SP4 RRF 0.8 = DDG04SP8 RRF 1.0 = DDG05S01

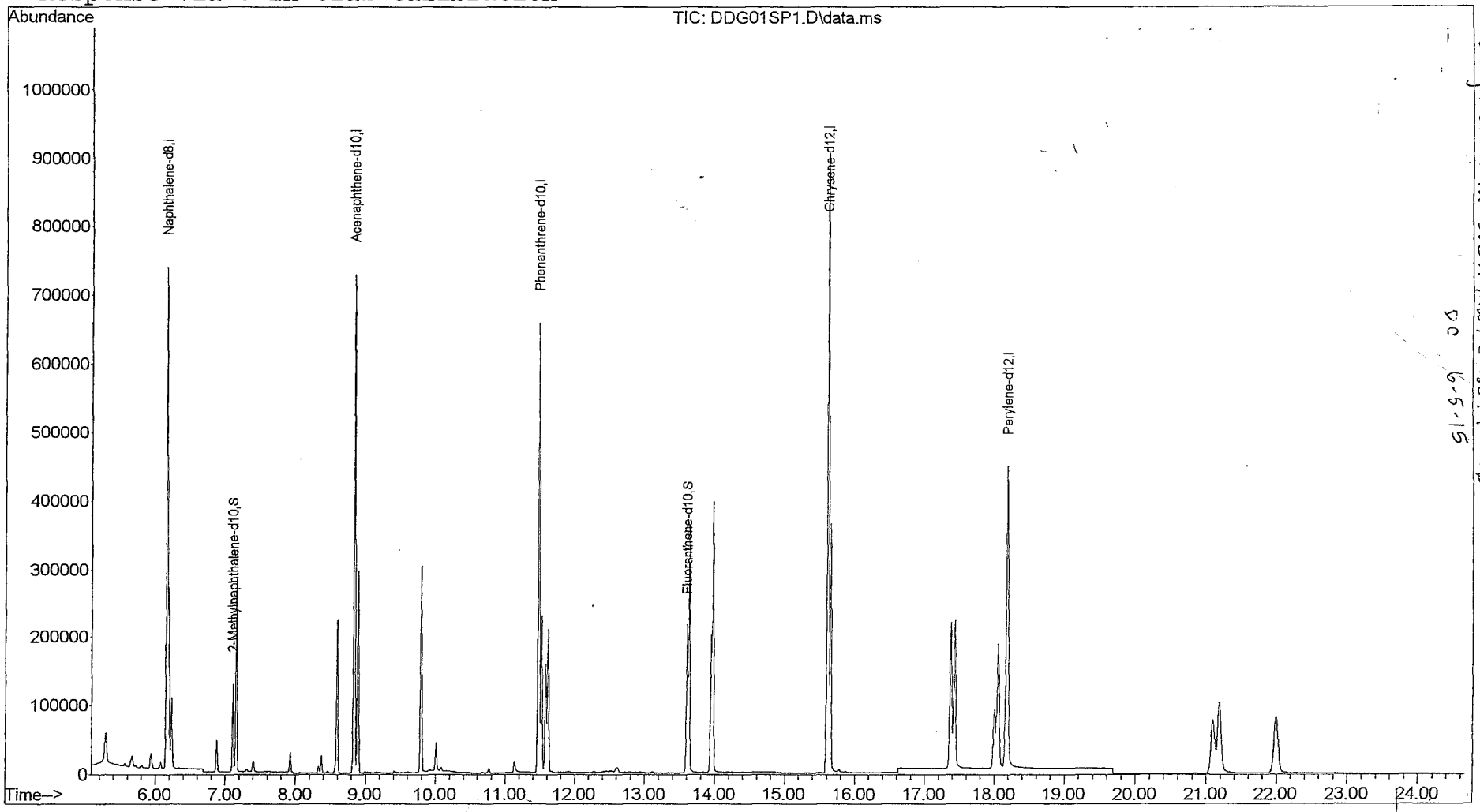
COMPOUND	RRF 0.1	RRF 0.2	RRF 0.4	RRF 0.8	RRF 1.0	$\overline{RRF}$	%RSD
Naphthalene	1.070	1.060	1.047	1.004	1.034	1.043	2.5
2-Methylnaphthalene	0.678	0.680	0.672	0.652	0.676	0.672	1.7
Acenaphthylene	1.712	1.721	1.747	1.737	1.836	1.750	2.8
Acenaphthene	1.121	1.125	1.118	1.093	1.144	1.120	1.6
Fluorene	1.280	1.294	1.298	1.276	1.346	1.299	2.1
Pentachlorophenol		0.056	0.056	0.061	0.068	0.060	9.2
Phenanthrene	1.131	1.155	1.151	1.137	1.185	1.152	1.8
Anthracene	1.055	1.099	1.118	1.135	1.193	1.120	4.5
Fluoranthene	1.292	1.281	1.291	1.320	1.370	1.311	2.8
Pyrene	1.283	1.240	1.247	1.229	1.277	1.255	1.9
Benzo(a)anthracene	1.071	1.062	1.060	1.047	1.093	1.067	1.6
Chrysene	1.126	1.135	1.131	1.101	1.143	1.127	1.4
Benzo(b)fluoranthene	1.217	1.236	1.239	1.236	1.306	1.247	2.8
Benzo(k)fluoranthene	1.226	1.279	1.305	1.295	1.353	1.292	3.6
Benzo(a)pyrene	1.103	1.165	1.201	1.211	1.276	1.191	5.3
Indeno(1,2,3-cd)pyrene	0.970	1.023	1.043	1.058	1.119	1.043	5.2
Dibenzo(a,h)anthracene	1.077	1.103	1.168	1.179	1.241	1.153	5.6
Benzo(g,h,i)perylene	1.118	1.158	1.177	1.174	1.236	1.172	3.6
Fluoranthene-d10	1.098	1.079	1.076	1.082	1.134	1.094	2.2
2-Methylnaphthalene-d10	0.656	0.654	0.647	0.624	0.646	0.645	1.9

Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG01SP1.D Vial: 1
Acq On : 03/25/2015 09:26 Operator: DJC
Sample : SSTD0.1DG 27491 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Mar 25 10:15:56 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration



Original with SDG; F9KW7 Case: 45316
DC 6-5-15

DDG01SP1.D DSOM_SIMJ2.M Fri Jun 05 09:23:07 2015 Page 2

Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG01SP1.D Vial: 1
Acq On : 03/25/2015 09:26 Operator: DJC
Sample : SSTD0.1DG 27491 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Mar 25 10:15:56 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.16	136	826415	0.40 ug/ml	
5) Acenaphthene-d10	8.83	164	500325	0.40 ug/ml	
9) Phenanthrene-d10	11.47	188	876849	0.40 ug/ml	
15) Chrysene-d12	15.61	240	937520	0.40 ug/ml	
19) Perylene-d12	18.17	264	804866	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.11	152	135515	0.100ug/mL	
13) Fluoranthene-d10	13.60	212	240674	0.100ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.19	128	221005	0.100ug/ml	93
4) 2-Methylnaphthalene	7.16	142	140108	0.100ug/ml	97
6) Acenaphthylene	8.59	152	214086	0.100ug/ml	96
7) Acenaphthene	8.89	153	140194	0.100ug/ml	98
8) Fluorene	9.79	166	160159	0.100ug/ml	100
10) Pentachlorophenol	0.00	266		No Calib #	
11) Phenanthrene	11.52	178	247892	0.100ug/ml	98
12) Anthracene	11.61	178	231218	0.100ug/ml	96
14) Fluoranthene	13.63	202	283310	0.100ug/ml	91
16) Pyrene	13.97	202	300663	0.100ug/ml	92
17) Benzo(a)anthracene	15.60	228	251019	0.100ug/ml	99
18) Chrysene	15.65	228	263840	0.100ug/ml	98
20) Benzo(b)fluoranthene	17.37	252	244834	0.100ug/ml	100
21) Benzo(k)fluoranthene	17.42	252	246626	0.100ug/ml	99
22) Benzo(a)pyrene	18.05	252	221886	0.100ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	21.09	276	195170	0.100ug/ml	100
24) Dibenzo(a,h)anthracene	21.19	278	216701	0.100ug/ml	99
25) Benzo(g,h,i)perylene	21.99	276	224998	0.100ug/ml	72

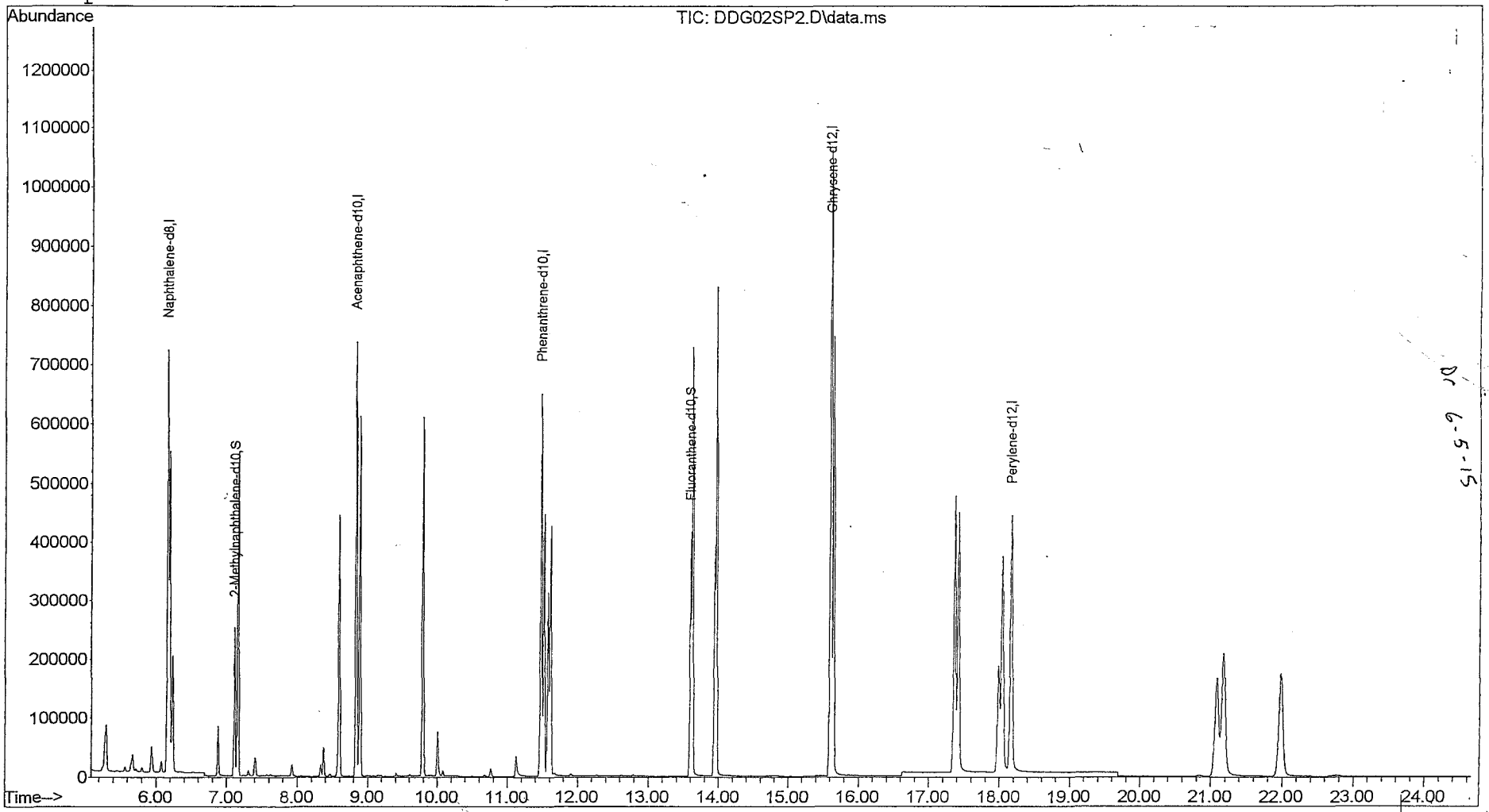
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG02SP2.D Vial: 2
Acq On : 03/25/2015 09:55 Operator: DJC
Sample : SSTD0.2DG 27492 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Mar 25 10:22:59 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG02SP2.D Vial: 2
Acq On : 03/25/2015 09:55 Operator: DJC
Sample : SSTD0.2DG 27492 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Mar 25 10:22:59 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.16	136	829500	0.40 ug/ml	
5) Acenaphthene-d10	8.83	164	499450	0.40 ug/ml	
9) Phenanthrene-d10	11.47	188	862919	0.40 ug/ml	
15) Chrysene-d12	15.61	240	943009	0.40 ug/ml	
19) Perylene-d12	18.16	264	803959	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.11	152	271205	0.200ug/mL	
13) Fluoranthene-d10	13.60	212	465423	0.198ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.19	128	439776	0.199ug/ml	93
4) 2-Methylnaphthalene	7.16	142	282058	0.200ug/ml	97
6) Acenaphthylene	8.59	152	429820	0.201ug/ml	96
7) Acenaphthene	8.89	153	281062	0.200ug/ml	98
8) Fluorene	9.79	166	323083	0.201ug/ml	98
10) Pentachlorophenol	11.12	266	24051	0.200ug/ml	100
11) Phenanthrene	11.52	178	498239	0.202ug/ml	97
12) Anthracene	11.61	178	474196	0.204ug/ml	96
14) Fluoranthene	13.62	202	552655	0.199ug/ml	91
16) Pyrene	13.97	202	584822	0.197ug/ml	92
17) Benzo(a)anthracene	15.59	228	500525	0.199ug/ml	99
18) Chrysene	15.64	228	535322	0.201ug/ml	99
20) Benzo(b)fluoranthene	17.36	252	496663	0.202ug/ml	100
21) Benzo(k)fluoranthene	17.41	252	513953	0.204ug/ml	100
22) Benzo(a)pyrene	18.04	252	468152	0.205ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	21.09	276	411348	0.205ug/ml	100
24) Dibenzo(a,h)anthracene	21.17	278	443264	0.202ug/ml	98
25) Benzo(g,h,i)perylene	21.98	276	465413	0.203ug/ml	72

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

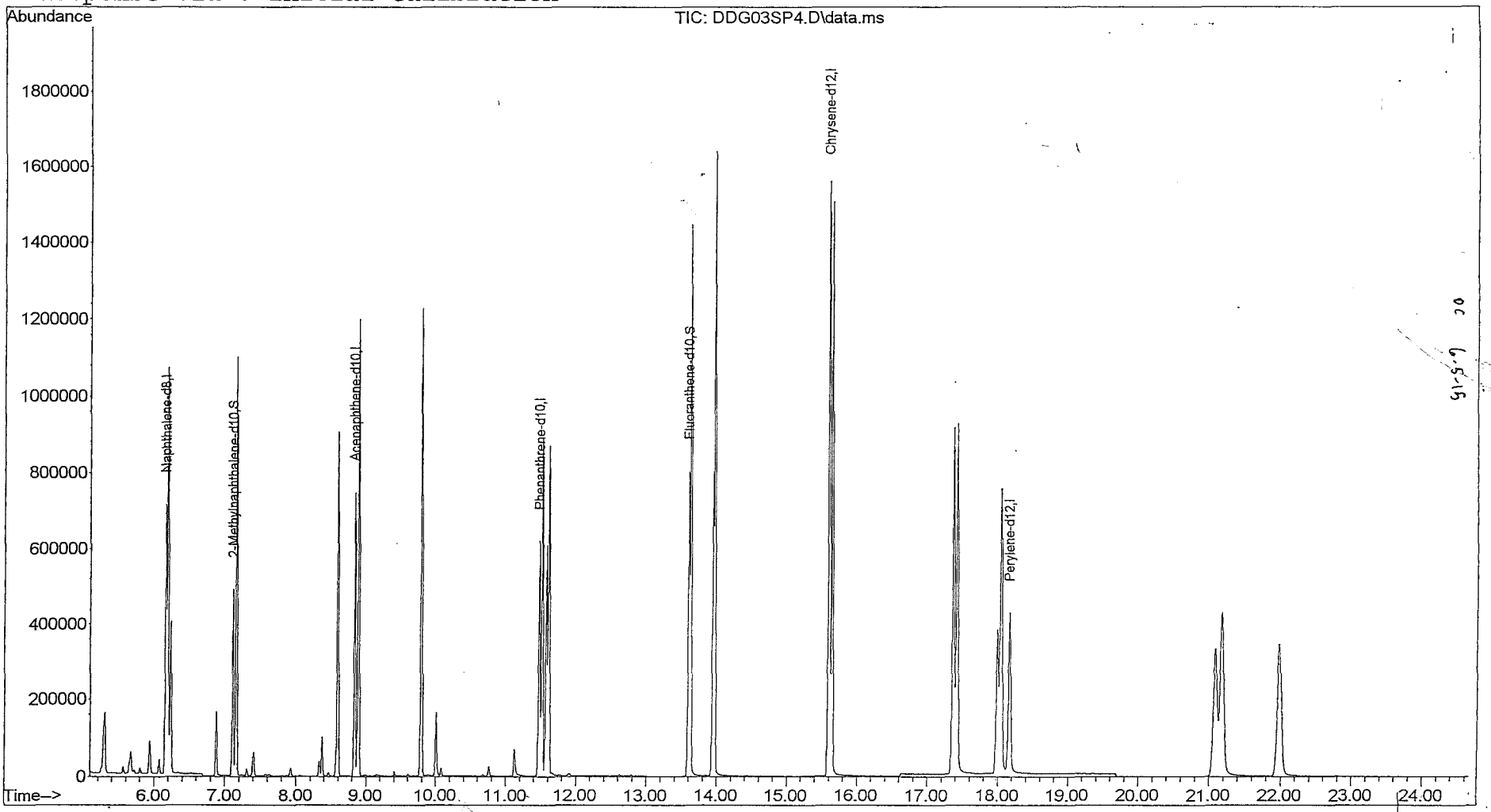
01946

Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG03SP4.D Vial: 3
Acq On : 03/25/2015 10:25 Operator: DJC
Sample : SSTD0.4DG 27493 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Mar 25 10:53:15 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG03SP4.D Vial: 3
Acq On : 03/25/2015 10:25 Operator: DJC
Sample : SSTD0.4DG 27493 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Mar 25 10:53:15 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.16	136	829952	0.40 ug/ml	
5) Acenaphthene-d10	8.83	164	496519	0.40 ug/ml	
9) Phenanthrene-d10	11.47	188	848812	0.40 ug/ml	
15) Chrysene-d12	15.61	240	931096	0.40 ug/ml	
19) Perylene-d12	18.16	264	790297	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.11	152	536757	0.395ug/mL	
13) Fluoranthene-d10	13.59	212	913687	0.396ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.19	128	868862	0.393ug/ml	93
4) 2-Methylnaphthalene	7.16	142	557588	0.396ug/ml	97
6) Acenaphthylene	8.59	152	867224	0.407ug/ml	96
7) Acenaphthene	8.89	153	555337	0.398ug/ml	98
8) Fluorene	9.79	166	644612	0.403ug/ml	98
10) Pentachlorophenol	11.12	266	47584	0.402ug/ml	100
11) Phenanthrene	11.51	178	976988	0.403ug/ml	97
12) Anthracene	11.61	178	948693	0.415ug/ml	96
14) Fluoranthene	13.62	202	1095908	0.401ug/ml	91
16) Pyrene	13.97	202	1160679	0.395ug/ml	92
17) Benzo(a)anthracene	15.59	228	986511	0.397ug/ml	99
18) Chrysene	15.64	228	1052641	0.400ug/ml	98
20) Benzo(b)fluoranthene	17.36	252	978791	0.404ug/ml	98
21) Benzo(k)fluoranthene	17.41	252	1031697	0.417ug/ml	99
22) Benzo(a)pyrene	18.04	252	949466	0.424ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	21.08	276	824139	0.419ug/ml	100
24) Dibenzo(a,h)anthracene	21.18	278	922854	0.429ug/ml	98
25) Benzo(g,h,i)perylene	21.98	276	930201	0.414ug/ml	72

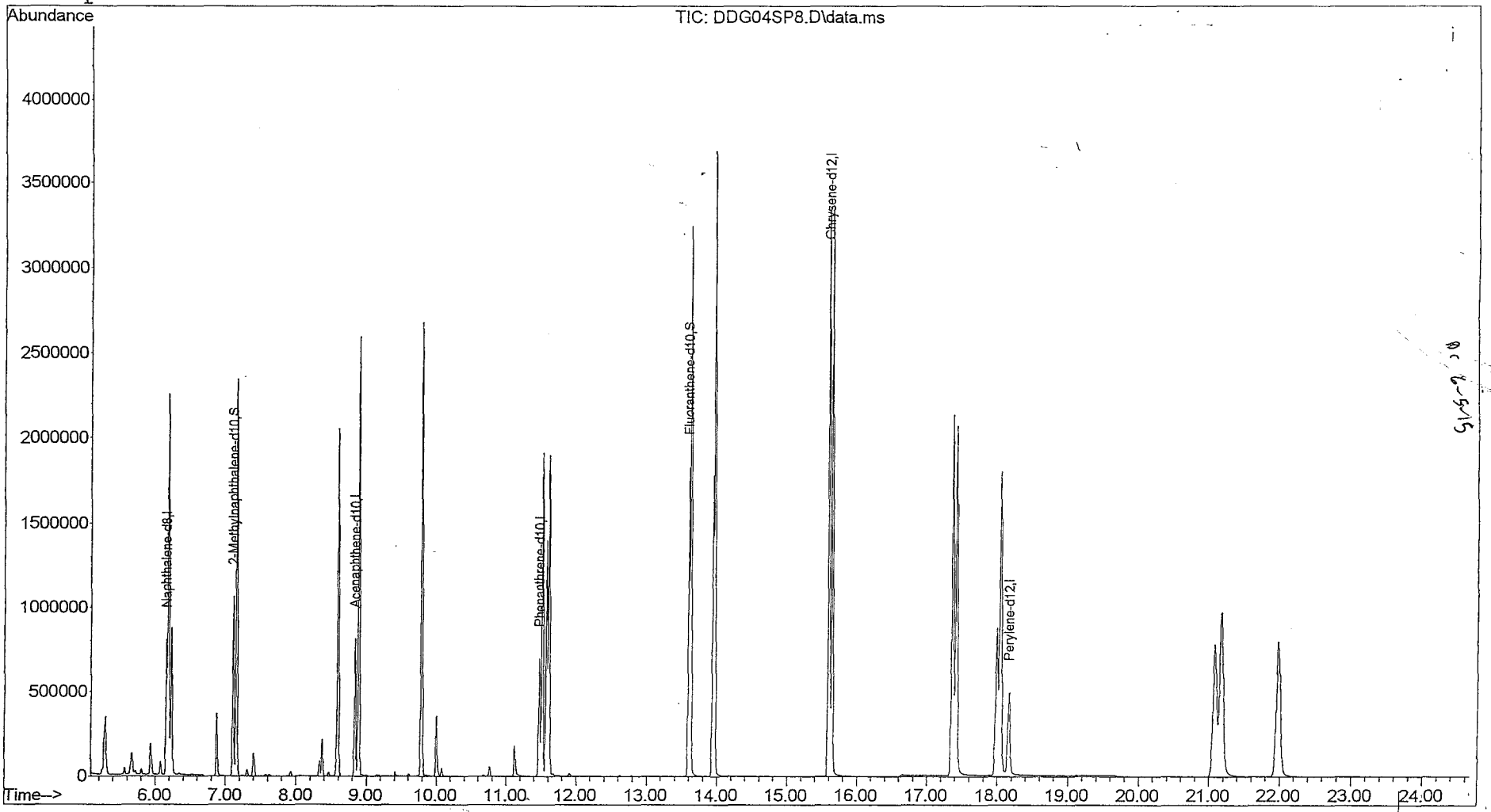
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG04SP8.D Vial: 4
Acq On : 03/25/2015 10:55 Operator: DJC
Sample : SSTD0.8DG 27494 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Mar 25 11:20:22 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG04SP8.D Vial: 4
Acq On : 03/25/2015 10:55 Operator: DJC
Sample : SSTD0.8DG 27494 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Mar 25 11:20:22 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.16	136	920941	0.40 ug/ml	
5) Acenaphthene-d10	8.83	164	551221	0.40 ug/ml	
9) Phenanthrene-d10	11.47	188	930295	0.40 ug/ml	
15) Chrysene-d12	15.61	240	1059796	0.40 ug/ml	
19) Perylene-d12	18.16	264	900237	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.11	152	1150033	0.766ug/mL	
13) Fluoranthene-d10	13.60	212	2013973	0.799ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.19	128	1849404	0.759ug/ml	93
4) 2-Methylnaphthalene	7.16	142	1201438	0.771ug/ml	97
6) Acenaphthylene	8.59	152	1914904	0.805ug/ml	96
7) Acenaphthene	8.89	153	1204425	0.779ug/ml	98
8) Fluorene	9.79	166	1407005	0.791ug/ml	97
10) Pentachlorophenol	11.12	266	113063	0.870ug/ml	100
11) Phenanthrene	11.51	178	2115316	0.794ug/ml	97
12) Anthracene	11.61	178	2112202	0.833ug/ml	96
14) Fluoranthene	13.62	202	2456577	0.820ug/ml	91
16) Pyrene	13.97	202	2604313	0.782ug/ml	91
17) Benzo(a)anthracene	15.59	228	2220157	0.788ug/ml	99
18) Chrysene	15.64	228	2333590	0.779ug/ml	99
20) Benzo(b)fluoranthene	17.36	252	2225635	0.804ug/ml	100
21) Benzo(k)fluoranthene	17.41	252	2331572	0.816ug/ml	100
22) Benzo(a)pyrene	18.04	252	2180024	0.838ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	21.08	276	1904485	0.836ug/ml	100
24) Dibenzo(a,h)anthracene	21.17	278	2122556	0.845ug/ml	98
25) Benzo(g,h,i)perylene	21.98	276	2112907	0.816ug/ml	72

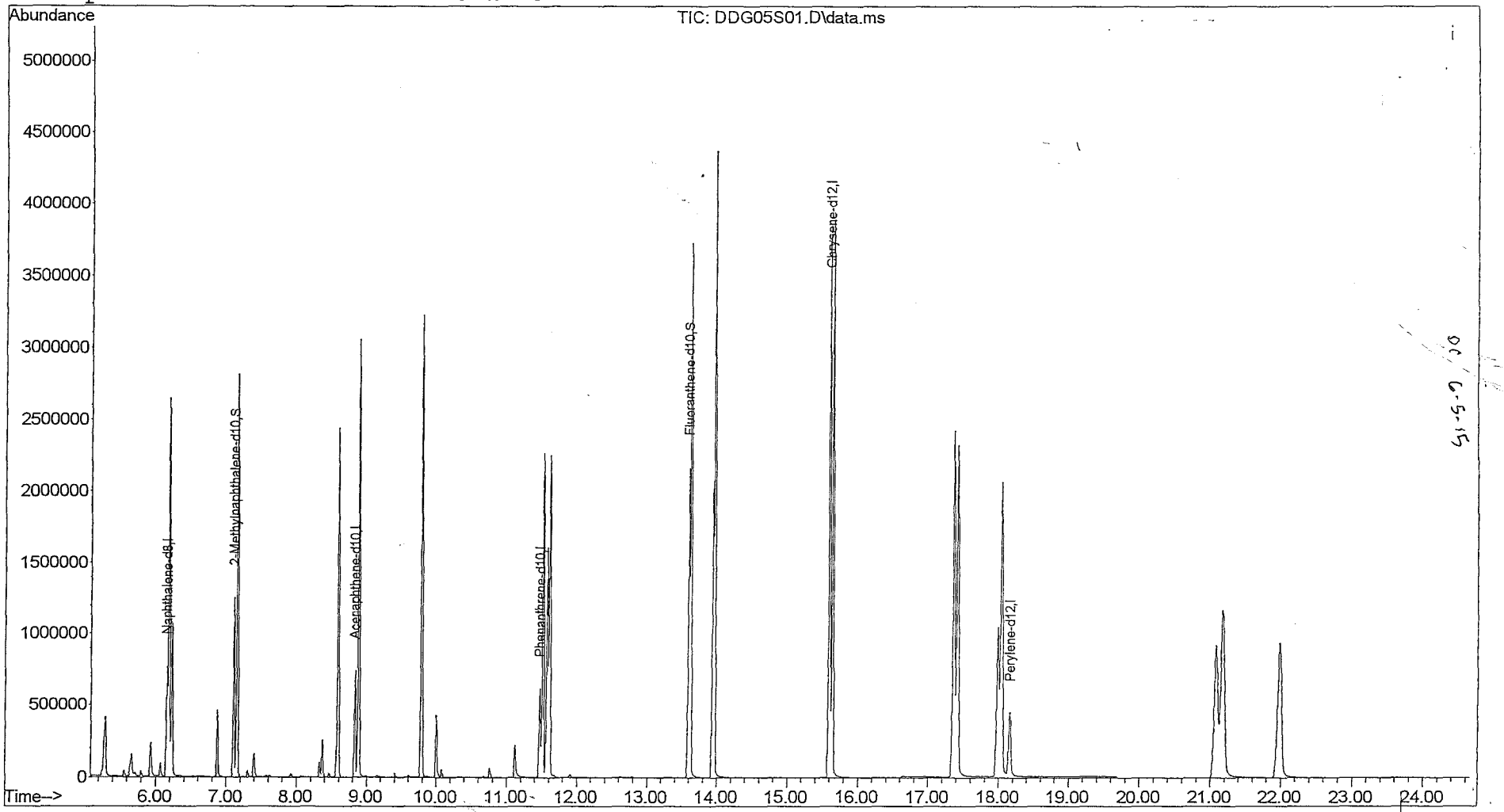
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG05S01.D Vial: 5
Acq On : 03/25/2015 11:25 Operator: DJC
Sample : SSTD001DG 27495 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Mar 25 11:50:19 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG05S01.D Vial: 5
Acq On : 03/25/2015 11:25 Operator: DJC
Sample : SSTD001DG 27495 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Mar 25 11:50:19 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.16	136	848708	0.40 ug/ml	
5) Acenaphthene-d10	8.83	164	499984	0.40 ug/ml	
9) Phenanthrene-d10	11.47	188	848866	0.40 ug/ml	
15) Chrysene-d12	15.61	240	967696	0.40 ug/ml	
19) Perylene-d12	18.16	264	809238	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.11	152	1370896	1.001ug/mL	
13) Fluoranthene-d10	13.59	212	2406449	1.046ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.19	128	2194653	0.990ug/ml	93
4) 2-Methylnaphthalene	7.16	142	1433760	1.008ug/ml	97
6) Acenaphthylene	8.59	152	2294412	1.062ug/ml	96
7) Acenaphthene	8.89	153	1429745	1.026ug/ml	98
8) Fluorene	9.79	166	1682594	1.046ug/ml	97
10) Pentachlorophenol	11.12	266	143501	1.176ug/ml	100
11) Phenanthrene	11.51	178	2514177	1.036ug/ml	97
12) Anthracene	11.61	178	2532691	1.083ug/ml	96
14) Fluoranthene	13.62	202	2908132	1.057ug/ml	91
16) Pyrene	13.97	202	3088951	1.022ug/ml	91
17) Benzo(a)anthracene	15.59	228	2644584	1.031ug/ml	99
18) Chrysene	15.64	228	2764927	1.018ug/ml	98
20) Benzo(b)fluoranthene	17.36	252	2644337	1.061ug/ml	100
21) Benzo(k)fluoranthene	17.41	252	2738771	1.061ug/ml	99
22) Benzo(a)pyrene	18.04	252	2582631	1.091ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	21.08	276	2264899	1.094ug/ml	100
24) Dibenzo(a,h)anthracene	21.17	278	2511813	1.097ug/ml	98
25) Benzo(g,h,i)perylene	21.98	276	2501128	1.069ug/ml	72

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

01052

7H - FORM VII SV-SIM
SEMIVOLATILE SIM CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

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

Instrument ID: 5975-D Calibration Date: 06/15/2015 Time: 15:02

Lab File ID: DGB01SP4 Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4DB Init. Calib. Time(s): 09:26 11:25

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.043	0.885	0.700	-15.2	25.0
2-Methylnaphthalene	0.672	0.590	0.400	-12.1	25.0
Acenaphthylene	1.750	1.494	0.900	-14.6	25.0
Acenaphthene	1.120	0.956	0.900	-14.6	25.0
Fluorene	1.299	1.089	0.900	-16.2	25.0
Pentachlorophenol	0.060	0.062	0.050	3.3	25.0
Phenanthrene	1.152	0.932	0.700	-19.1	25.0
Anthracene	1.120	0.917	0.700	-18.1	25.0
Fluoranthene	1.311	1.127	0.600	-14.0	25.0
Pyrene	1.255	1.098	0.600	-12.5	25.0
Benzo(a)anthracene	1.067	0.989	0.800	-7.3	25.0
Chrysene	1.127	0.951	0.700	-15.6	25.0
Benzo(b)fluoranthene	1.247	1.048	0.700	-16.0	25.0
Benzo(k)fluoranthene	1.292	1.040	0.700	-19.5	25.0
Benzo(a)pyrene	1.191	0.994	0.700	-16.6	25.0
Indeno(1,2,3-cd)pyrene	1.043	0.959	0.500	-8.0	25.0
Dibenzo(a,h)anthracene	1.153	0.982	0.400	-14.9	25.0
Benzo(g,h,i)perylene	1.172	1.013	0.500	-13.6	25.0
Fluoranthene-d10	1.094	0.991	0.010	-9.4	25.0
2-Methylnaphthalene-d10	0.645	0.582	0.010	-9.9	25.0

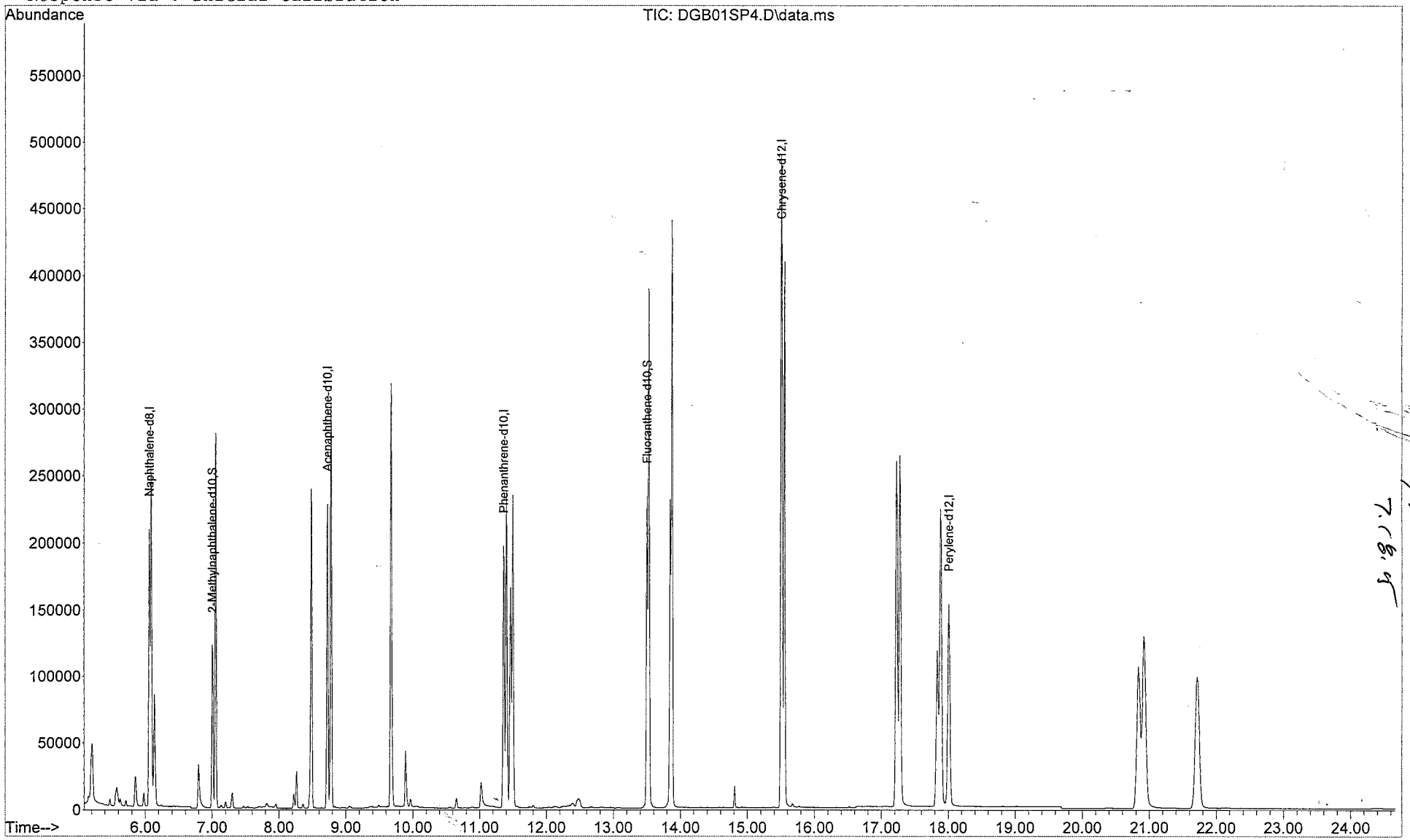
Quantitation Report

Data File : R:\D\2015\JUN15\15JUN15\DGB01SP4.D
Acq On : 06/15/2015 15:02
Sample : SSTD0.4DB 28297
Misc : . X6-19-15
MS Integration Params: rteint.p

Vial: 1
Operator: SY
Inst : 5975-D
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 15 15:27:41 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\15JUN15\DGB01SP4.D Vial: 1
Acq On : 06/15/2015 15:02 Operator: SY
Sample : SSTD0.4DB 28297 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 15 15:27:41 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	236119	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	152944	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	272281	0.40 ug/ml	
15) Chrysene-d12	15.51	240	295425	0.40 ug/ml	
19) Perylene-d12	18.01	264	272680	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.00	152	137312	0.360ug/mL	
13) Fluoranthene-d10	13.50	212	269769	0.362ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.09	128	208890	0.339ug/ml	97
4) 2-Methylnaphthalene	7.05	142	139360	0.352ug/ml	98
6) Acenaphthylene	8.48	152	228572	0.342ug/ml	97
7) Acenaphthene	8.78	153	146252	0.341ug/ml	99
8) Fluorene	9.67	166	166488	0.335ug/ml	100
10) Pentachlorophenol	11.02	266	16895	0.413ug/ml	100
11) Phenanthrene	11.40	178	253791	0.324ug/ml	99
12) Anthracene	11.50	178	249675	0.327ug/ml	97
14) Fluoranthene	13.53	202	306978	0.344ug/ml	87
16) Pyrene	13.87	202	324484	0.350ug/ml	88
17) Benzo(a)anthracene	15.50	228	292067	0.371ug/ml	98
18) Chrysene	15.55	228	280881	0.337ug/ml	96
20) Benzo(b)fluoranthene	17.23	252	285695	0.336ug/ml	100
21) Benzo(k)fluoranthene	17.28	252	283507	0.322ug/ml	99
22) Benzo(a)pyrene	17.89	252	271011	0.334ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	20.84	276	261525	0.368ug/ml	100
24) Dibenzo(a,h)anthracene	20.92	278	267781	0.341ug/ml	98
25) Benzo(g,h,i)perylene	21.71	276	276220	0.346ug/ml	70

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

01055

7H - FORM VII SV-SIM
SEMIVOLATILE SIM CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

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

Instrument ID: 5975-D Calibration Date: 06/16/2015 Time: 00:01

Lab File ID: DGB20SP4 Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4D1 Init. Calib. Time(s): 09:26 11:25

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.043	0.886	0.700	-15.1	25.0
2-Methylnaphthalene	0.672	0.589	0.400	-12.3	25.0
Acenaphthylene	1.750	1.524	0.900	-12.9	25.0
Acenaphthene	1.120	0.964	0.900	-13.9	25.0
Fluorene	1.299	1.107	0.900	-14.8	25.0
Pentachlorophenol	0.060	0.055	0.050	-7.7	25.0
Phenanthrene	1.152	0.936	0.700	-18.7	25.0
Anthracene	1.120	0.928	0.700	-17.1	25.0
Fluoranthene	1.311	1.098	0.600	-16.2	25.0
Pyrene	1.255	1.071	0.600	-14.7	25.0
Benzo(a)anthracene	1.067	1.010	0.800	-5.3	25.0
Chrysene	1.127	0.956	0.700	-15.2	25.0
Benzo(b)fluoranthene	1.247	1.045	0.700	-16.2	25.0
Benzo(k)fluoranthene	1.292	1.010	0.700	-21.8	25.0
Benzo(a)pyrene	1.191	0.995	0.700	-16.5	25.0
Indeno(1,2,3-cd)pyrene	1.043	0.936	0.500	-10.2	25.0
Dibenzo(a,h)anthracene	1.153	0.944	0.400	-18.2	25.0
Benzo(g,h,i)perylene	1.172	0.971	0.500	-17.2	25.0
Fluoranthene-d10	1.094	0.952	0.010	-13.0	25.0
2-Methylnaphthalene-d10	0.645	0.578	0.010	-10.4	25.0

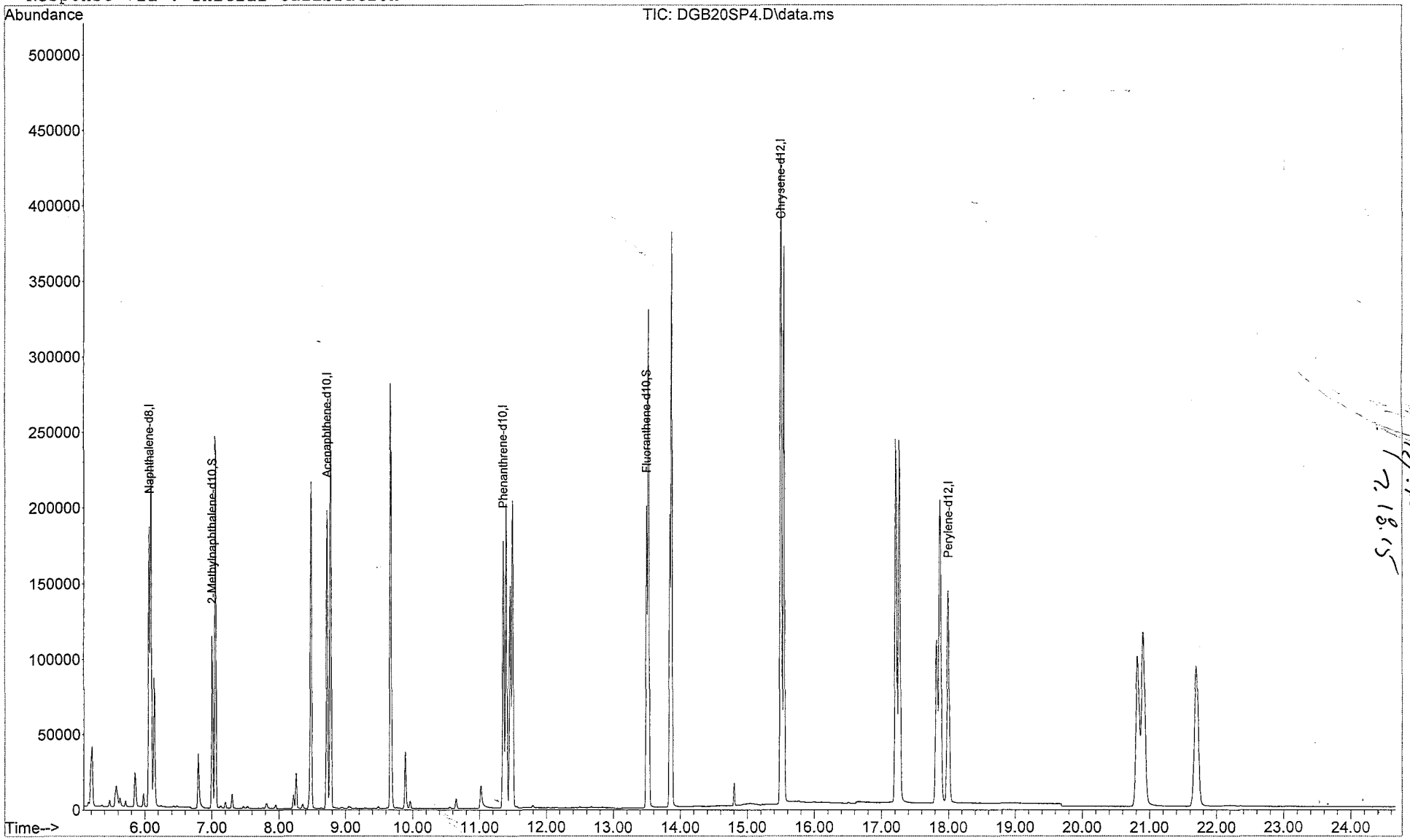
Quantitation Report

Data File : R:\D\2015\JUN15\15JUN15\DGB20SP4.D
Acq On : 06/16/2015 00:01
Sample : SSTD0.4D1 28297
Misc : . X6-19-15
MS Integration Params: rteint.p

Vial: 1
Operator: SY
Inst : 5975-D
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 16 00:25:53 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\JUN15\15JUN15\DGB20SP4.D Vial: 1
Acq On : 06/16/2015 00:01 Operator: SY
Sample : SSTD0.4D1 28297 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 16 00:25:53 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	212362	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	134800	0.40 ug/ml	
9) Phenanthrene-d10	11.35	188	240084	0.40 ug/ml	
15) Chrysene-d12	15.51	240	259737	0.40 ug/ml	
19) Perylene-d12	18.00	264	253922	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.00	152	122778	0.358ug/mL	
13) Fluoranthene-d10	13.49	212	228557	0.348ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.09	128	188113	0.340ug/ml	94
4) 2-Methylnaphthalene	7.05	142	125148	0.351ug/ml	98
6) Acenaphthylene	8.48	152	205420	0.348ug/ml	97
7) Acenaphthene	8.77	153	129959	0.344ug/ml	99
8) Fluorene	9.67	166	149161	0.341ug/ml	100
10) Pentachlorophenol	11.02	266	13302	0.369ug/ml	100
11) Phenanthrene	11.40	178	224768	0.325ug/ml	98
12) Anthracene	11.49	178	222812	0.331ug/ml	97
14) Fluoranthene	13.52	202	263632	0.335ug/ml	88
16) Pyrene	13.87	202	278195	0.341ug/ml	88
17) Benzo(a)anthracene	15.49	228	262445	0.379ug/ml	98
18) Chrysene	15.54	228	248186	0.339ug/ml	97
20) Benzo(b)fluoranthene	17.21	252	265433	0.335ug/ml	100
21) Benzo(k)fluoranthene	17.27	252	256482	0.313ug/ml	99
22) Benzo(a)pyrene	17.87	252	252592	0.334ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	20.82	276	237731	0.359ug/ml	100
24) Dibenzo(a,h)anthracene	20.91	278	239641	0.327ug/ml	99
25) Benzo(g,h,i)perylene	21.70	276	246499	0.331ug/ml	71

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

: 01059

7H - FORM VII SV-SIM
SEMIVOLATILE SIM CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

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

Instrument ID: 5975-D Calibration Date: 06/16/2015 Time: 03:28

Lab File ID: DGB27SP4 Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4D2 Init. Calib. Time(s): 09:26 11:25

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.043	0.986	0.010	-5.5	50.0
2-Methylnaphthalene	0.672	0.650	0.010	-3.2	50.0
Acenaphthylene	1.750	1.716	0.010	-2.0	50.0
Acenaphthene	1.120	1.086	0.010	-3.1	50.0
Fluorene	1.299	1.239	0.010	-4.6	50.0
Pentachlorophenol	0.060	0.064	0.010	7.1	50.0
Phenanthrene	1.152	1.077	0.010	-6.5	50.0
Anthracene	1.120	1.061	0.010	-5.3	50.0
Fluoranthene	1.311	1.251	0.010	-4.6	50.0
Pyrene	1.255	1.215	0.010	-3.2	50.0
Benzo(a)anthracene	1.067	1.138	0.010	6.7	50.0
Chrysene	1.127	1.082	0.010	-4.0	50.0
Benzo(b)fluoranthene	1.247	1.183	0.010	-5.1	50.0
Benzo(k)fluoranthene	1.292	1.128	0.010	-12.7	50.0
Benzo(a)pyrene	1.191	1.125	0.010	-5.5	50.0
Indeno(1,2,3-cd)pyrene	1.043	1.149	0.010	10.2	50.0
Dibenzo(a,h)anthracene	1.153	1.177	0.010	2.1	50.0
Benzo(g,h,i)perylene	1.172	1.208	0.010	3.0	50.0
Fluoranthene-d10	1.094	1.083	0.010	-1.0	50.0
2-Methylnaphthalene-d10	0.645	0.639	0.010	-1.0	50.0

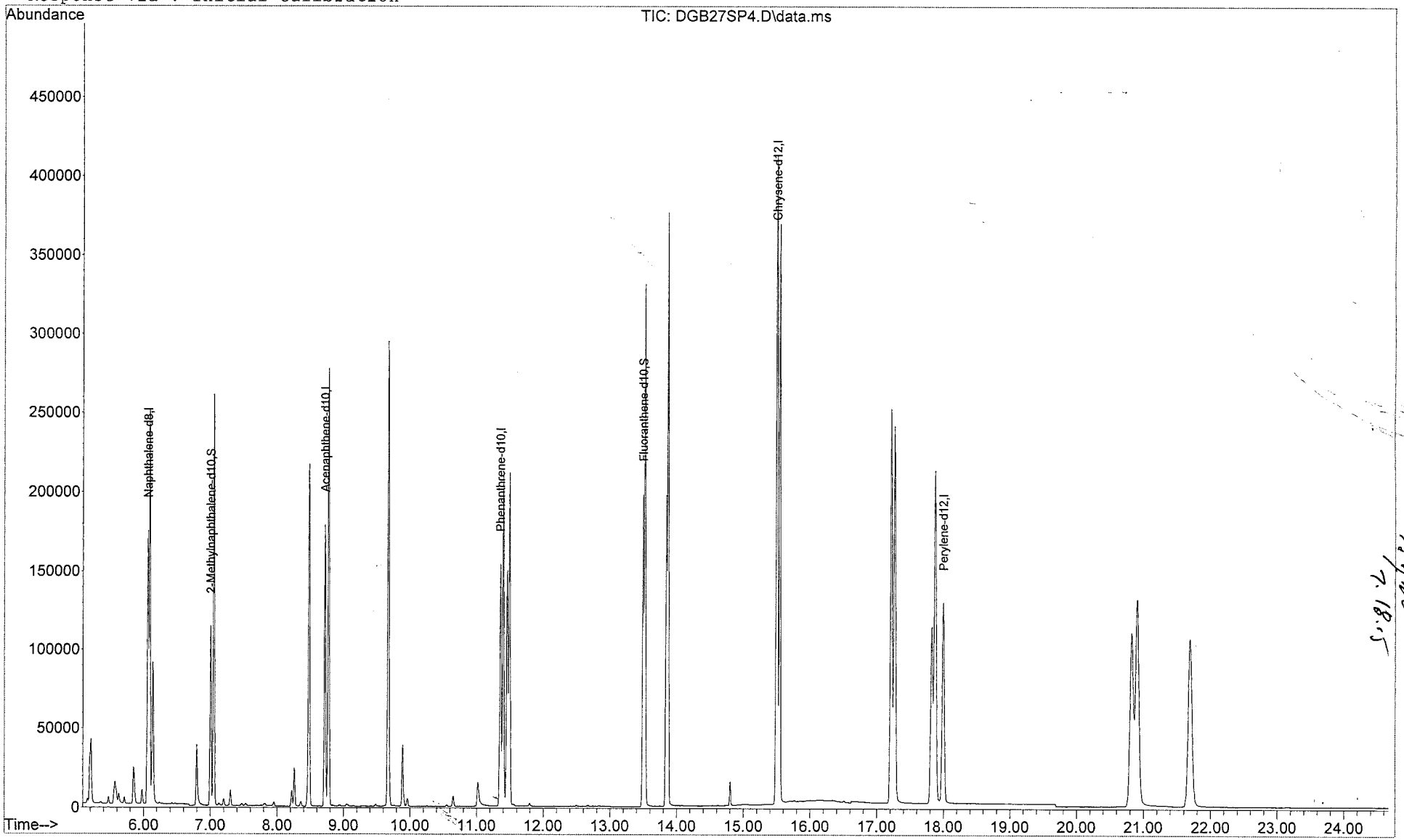
Quantitation Report

Data File : R:\D\2015\JUN15\15JUN15\DGB27SP4.D
Acq On : 06/16/2015 03:28
Sample : SSTD0.4D2 28297
Misc : . X6-19-15
MS Integration Params: rteint.p

Vial: 24
Operator: SY
Inst : 5975-D
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 16 03:53:06 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



Quantitation Report

Data File : R:\D\2015\JUN15\15JUN15\DGB27SP4.D Vial: 24
Acq On : 06/16/2015 03:28 Operator: SY
Sample : SSTD0.4D2 28297 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 16 03:53:06 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	197634	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	122097	0.40 ug/ml	
9) Phenanthrene-d10	11.35	188	211878	0.40 ug/ml	
15) Chrysene-d12	15.51	240	230943	0.40 ug/ml	
19) Perylene-d12	18.00	264	229415	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.00	152	126224	0.396ug/mL	
13) Fluoranthene-d10	13.49	212	229435	0.396ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.09	128	194799	0.378ug/ml	94
4) 2-Methylnaphthalene	7.05	142	128548	0.387ug/ml	98
6) Acenaphthylene	8.48	152	209510	0.392ug/ml	97
7) Acenaphthene	8.77	153	132579	0.388ug/ml	99
8) Fluorene	9.67	166	151239	0.381ug/ml	100
10) Pentachlorophenol	11.02	266	13622	0.428ug/ml	100
11) Phenanthrene	11.40	178	228089	0.374ug/ml	98
12) Anthracene	11.49	178	224762	0.379ug/ml	97
14) Fluoranthene	13.52	202	265019	0.382ug/ml	88
16) Pyrene	13.87	202	280626	0.387ug/ml	88
17) Benzo(a)anthracene	15.49	228	262807	0.427ug/ml	98
18) Chrysene	15.54	228	249811	0.384ug/ml	97
20) Benzo(b)fluoranthene	17.21	252	271454	0.380ug/ml	100
21) Benzo(k)fluoranthene	17.27	252	258767	0.349ug/ml	99
22) Benzo(a)pyrene	17.87	252	258188	0.378ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	20.82	276	263519	0.441ug/ml	100
24) Dibenzo(a,h)anthracene	20.90	278	270117	0.408ug/ml	98
25) Benzo(g,h,i)perylene	21.69	276	277157	0.412ug/ml	70

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

7H - FORM VII SV-SIM
SEMIVOLATILE SIM CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

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

Instrument ID: 5975-D Calibration Date: 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)

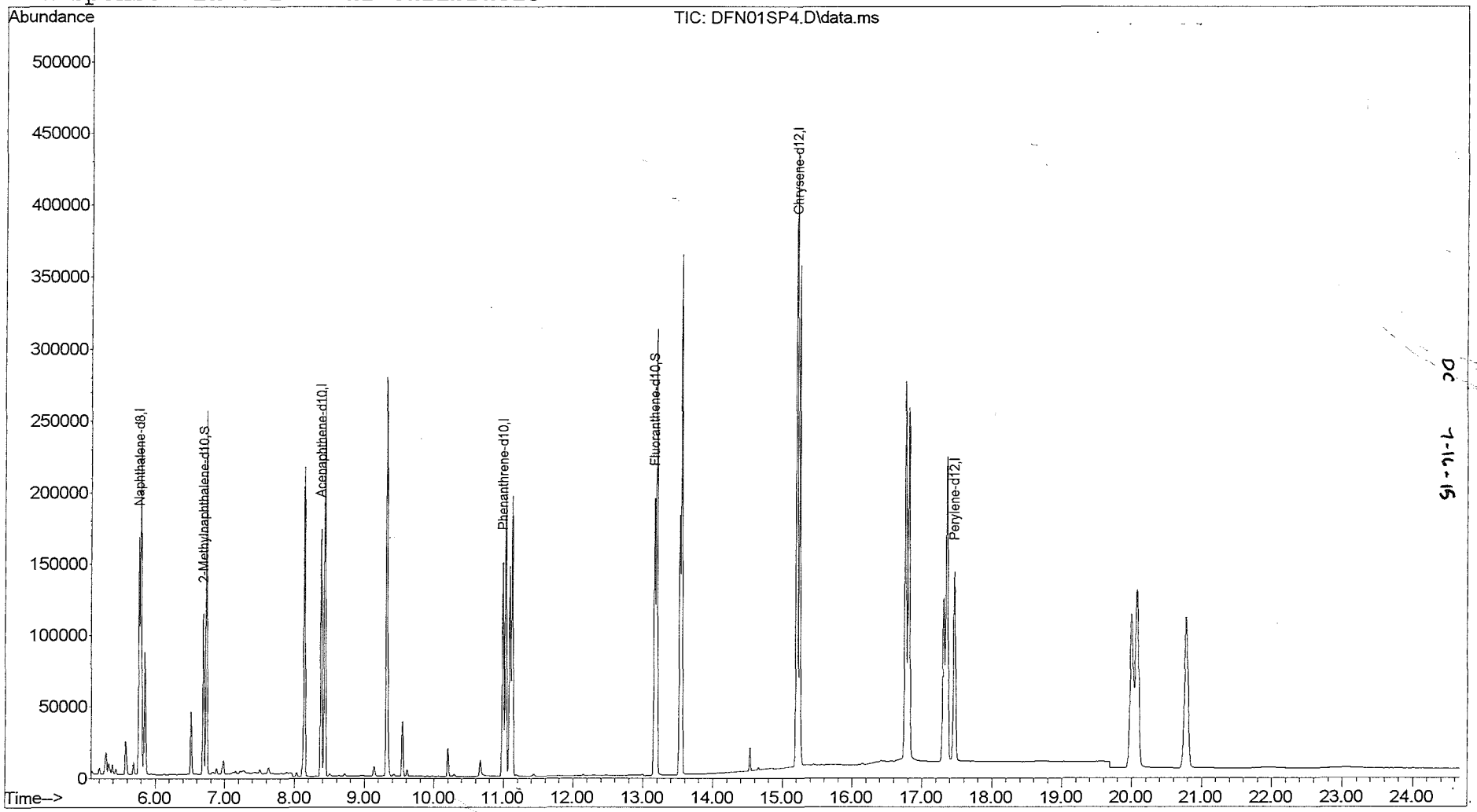
COMPOUND	$\overline{RRF}$	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.043	1.015	0.700	-2.7	25.0
2-Methylnaphthalene	0.672	0.677	0.400	0.8	25.0
Acenaphthylene	1.750	1.756	0.900	0.3	25.0
Acenaphthene	1.120	1.117	0.900	-0.3	25.0
Fluorene	1.299	1.290	0.900	-0.7	25.0
Pentachlorophenol	0.060	0.044	0.050	-26.2	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 : C:\msdchem\1\DATA\20...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

Quant Time: Jul 16 09:06:55 2015 Results File: DSOM_SIMJ2.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 17:56:41 2015
Response via : Initial Calibration



DC 7-16-15

Quantitation Report

Data File : C:\msdchem\1\DATA\20...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 : 1
MS Integration Params: rteint.p
Quant Time: Jul 16 09:06:55 2015 Results File: DSOM_SIMJ2.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 17:56:41 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)

7H - FORM VII SV-SIM
SEMIVOLATILE SIM CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

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

Instrument ID: 5975-D Calibration Date: 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)

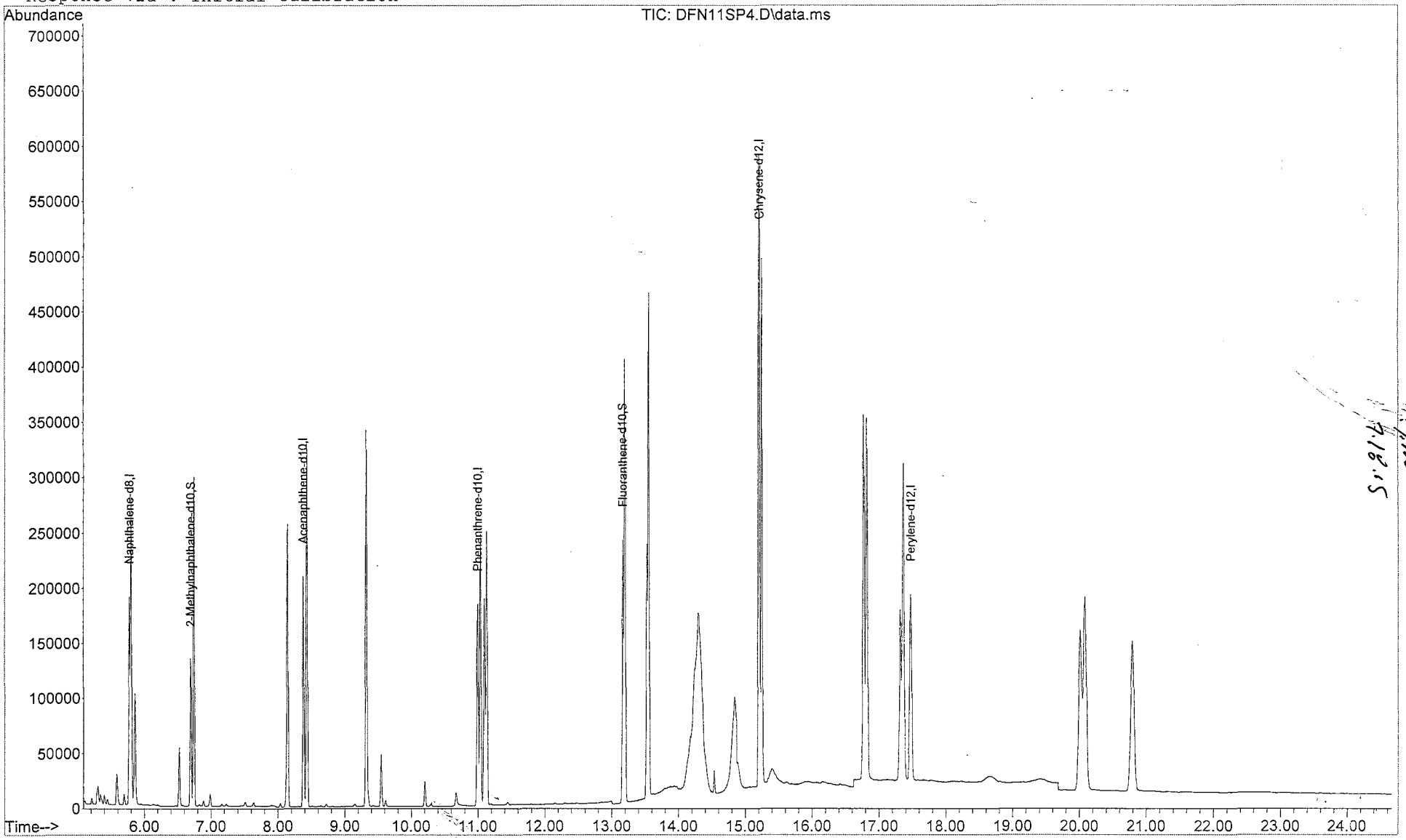
COMPOUND	$\overline{RRF}$	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.043	1.010	0.700	-3.2	25.0
2-Methylnaphthalene	0.672	0.681	0.400	1.4	25.0
Acenaphthylene	1.750	1.761	0.900	0.6	25.0
Acenaphthene	1.120	1.114	0.900	-0.5	25.0
Fluorene	1.299	1.287	0.900	-0.9	25.0
Pentachlorophenol	0.060	0.040	0.050	-32.7	25.0
Phenanthrene	1.152	1.068	0.700	-7.3	25.0
Anthracene	1.120	1.058	0.700	-5.6	25.0
Fluoranthene	1.311	1.264	0.600	-3.6	25.0
Pyrene	1.255	1.175	0.600	-6.4	25.0
Benzo(a)anthracene	1.067	1.154	0.800	8.2	25.0
Chrysene	1.127	1.055	0.700	-6.4	25.0
Benzo(b)fluoranthene	1.247	1.157	0.700	-7.2	25.0
Benzo(k)fluoranthene	1.292	1.117	0.700	-13.5	25.0
Benzo(a)pyrene	1.191	1.101	0.700	-7.6	25.0
Indeno(1,2,3-cd)pyrene	1.043	1.132	0.500	8.5	25.0
Dibenzo(a,h)anthracene	1.153	1.121	0.400	-2.8	25.0
Benzo(g,h,i)perylene	1.172	1.098	0.500	-6.3	25.0
Fluoranthene-d10	1.094	1.118	0.010	2.2	25.0
2-Methylnaphthalene-d10	0.645	0.672	0.010	4.0	25.0

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 Via1: 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)

: 91867

7H - FORM VII SV-SIM
SEMIVOLATILE SIM CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

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

Instrument ID: 5975-D Calibration Date: 07/16/2015 Time: 19:20

Lab File ID: DFN23SP4 Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4N2 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	1.011	0.010	-3.0	50.0
2-Methylnaphthalene	0.672	0.683	0.010	1.6	50.0
Acenaphthylene	1.750	1.759	0.010	0.5	50.0
Acenaphthene	1.120	1.114	0.010	-0.6	50.0
Fluorene	1.299	1.286	0.010	-1.0	50.0
Pentachlorophenol	0.060	0.025	0.010	-58.5	50.0
Phenanthrene	1.152	1.069	0.010	-7.1	50.0
Anthracene	1.120	1.059	0.010	-5.5	50.0
Fluoranthene	1.311	1.264	0.010	-3.6	50.0
Pyrene	1.255	1.176	0.010	-6.3	50.0
Benzo(a)anthracene	1.067	1.159	0.010	8.7	50.0
Chrysene	1.127	1.070	0.010	-5.0	50.0
Benzo(b)fluoranthene	1.247	1.152	0.010	-7.6	50.0
Benzo(k)fluoranthene	1.292	1.135	0.010	-12.1	50.0
Benzo(a)pyrene	1.191	1.105	0.010	-7.2	50.0
Indeno(1,2,3-cd)pyrene	1.043	1.041	0.010	-0.2	50.0
Dibenzo(a,h)anthracene	1.153	1.065	0.010	-7.7	50.0
Benzo(g,h,i)perylene	1.172	0.967	0.010	-17.5	50.0
Fluoranthene-d10	1.094	1.126	0.010	2.9	50.0
2-Methylnaphthalene-d10	0.645	0.673	0.010	4.3	50.0

Continuing Calibration Report 5975-D

Method Path : C:\msdchem\1\methods\
Method File : DSOM_SIMJ2.M
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jul 17 06:51:56 2015
Response Via : Initial Calibration

CC Data File: DFN23SP4.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%
1	I	Naphthalene-d8	1.000	1.000	0.0	21#
2	PC	Naphthalene	1.043	1.011	3.0	20#
3	S	2-Methylnaphthalene-d10	0.645	0.673	-4.3	22#
4	PC	2-Methylnaphthalene	0.672	0.683	-1.6	21#
5	I	Acenaphthene-d10	1.000	1.000	0.0	22#
6	PC	Acenaphthylene	1.750	1.759	-0.5	23#
7	PCM	Acenaphthene	1.120	1.114	0.6	22#
8	PC	Fluorene	1.299	1.286	1.0	22#
9	I	Phenanthrene-d10	1.000	1.000	0.0	24#
10	PCM	Pentachlorophenol	0.060	0.025#	58.5#	11#
11	PC	Phenanthrene	1.152	1.069	7.1	22#
12	PC	Anthracene	1.120	1.059	5.5	22#
13	S	Fluoranthene-d10	1.094	1.126	-2.9	25#
14	PC	Fluoranthene	1.311	1.264	3.6	23#
15	I	Chrysene-d12	1.000	1.000	0.0	25#
16	PCM	Pyrene	1.255	1.176	6.3	23#
17	PC	Benzo(a)anthracene	1.067	1.159	-8.7	27#
18	PC	Chrysene	1.127	1.070	5.0	23#
19	I	Perylene-d12	1.000	1.000	0.0	30#
20	PC	Benzo(b)fluoranthene	1.247	1.152	7.6	28#
21	PC	Benzo(k)fluoranthene	1.292	1.135	12.1	26#
22	PC	Benzo(a)pyrene	1.191	1.105	7.2	27#
23	PC	Indeno(1,2,3-c,d)pyrene	1.043	1.041	0.2	30#
24	PC	Dibenzo(a,h)anthracene	1.154	1.065	7.7	27#
25	PC	Benzo(g,h,i)perylene	1.173	0.967	17.5	25#

(#) = Out of Range SPCC's out = 1 CCC's out = 1

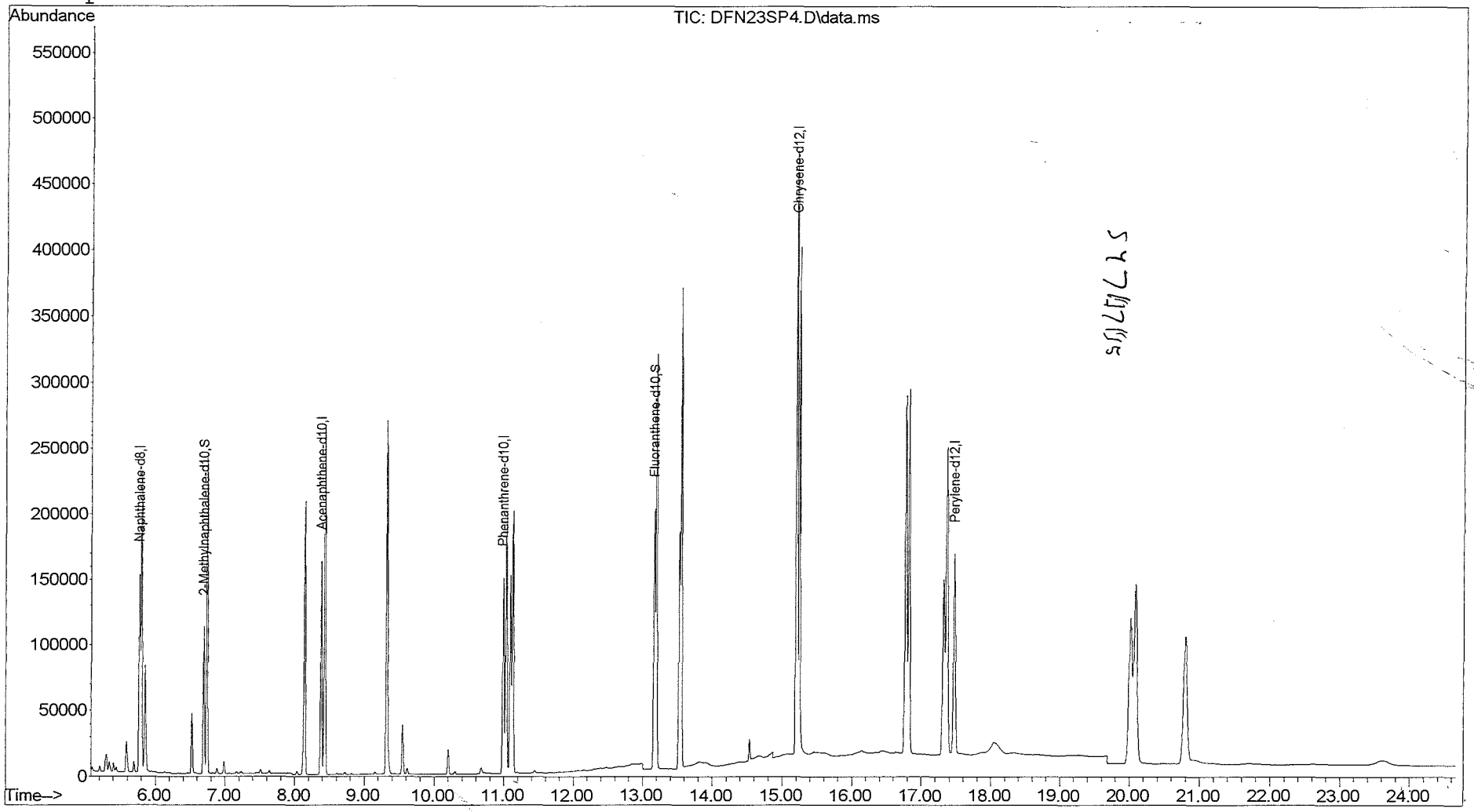
:01969

Quantitation Report

Data File : C:\msdchem\1\DATA\20...16JUL15DPM\DFN23SP4.D Vial: 1
Acq On : 07/16/2015 19:20 Operator: DJC
Sample : SSTD0.4N1 28658 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 16 19:45:08 2015 Results File: DSOM_SIMJ2.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jul 17 06:51:56 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\DATA\20...16JUL15DPM\DFN23SP4.D Vial: 1
Acq On : 07/16/2015 19:20 Operator: DJC
Sample : SSTD0.4N1 28658 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jul 16 19:45:08 2015 Results File: DSOM_SIMJ2.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jul 17 06:51:56 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.77	136	173967	0.40 ug/ml	
5) Acenaphthene-d10	8.38	164	111385	0.40 ug/ml	
9) Phenanthrene-d10	10.99	188	201015	0.40 ug/ml	
15) Chrysene-d12	15.21	240	228892	0.40 ug/ml	
19) Perylene-d12	17.47	264	235865	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.69	152	117147	0.417ug/mL	
13) Fluoranthene-d10	13.17	212	226271	0.412ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.80	128	175951	0.388ug/ml	94
4) 2-Methylnaphthalene	6.74	142	118755	0.407ug/ml	99
6) Acenaphthylene	8.14	152	195916	0.402ug/ml	97
7) Acenaphthene	8.43	153	124044	0.398ug/ml	98
8) Fluorene	9.32	166	143275	0.396ug/ml	100
10) Pentachlorophenol	10.68	266	5015	0.166ug/ml	100
11) Phenanthrene	11.03	178	214957	0.371ug/ml	98
12) Anthracene	11.13	178	212782	0.378ug/ml	97
14) Fluoranthene	13.20	202	254108	0.386ug/ml	88
16) Pyrene	13.55	202	269232	0.375ug/ml	89
17) Benzo(a)anthracene	15.20	228	265284	0.435ug/ml	98
18) Chrysene	15.24	228	244992	0.380ug/ml	97
20) Benzo(b)fluoranthene	16.77	252	271661	0.370ug/ml	100
21) Benzo(k)fluoranthene	16.82	252	267730	0.352ug/ml	99
22) Benzo(a)pyrene	17.36	252	260612	0.371ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	20.02	276	245523	0.399ug/ml	100
24) Dibenzo(a,h)anthracene	20.08	278	251135	0.369ug/ml	98
25) Benzo(g,h,i)perylene	20.80	276	228062	0.330ug/ml	71

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

01071

1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: SBLK93

Lab Name: ALS Environmental Contract: EPW11037

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

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450193

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DGB03BLK

Extraction: (Type) SONC

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/08/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2015

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

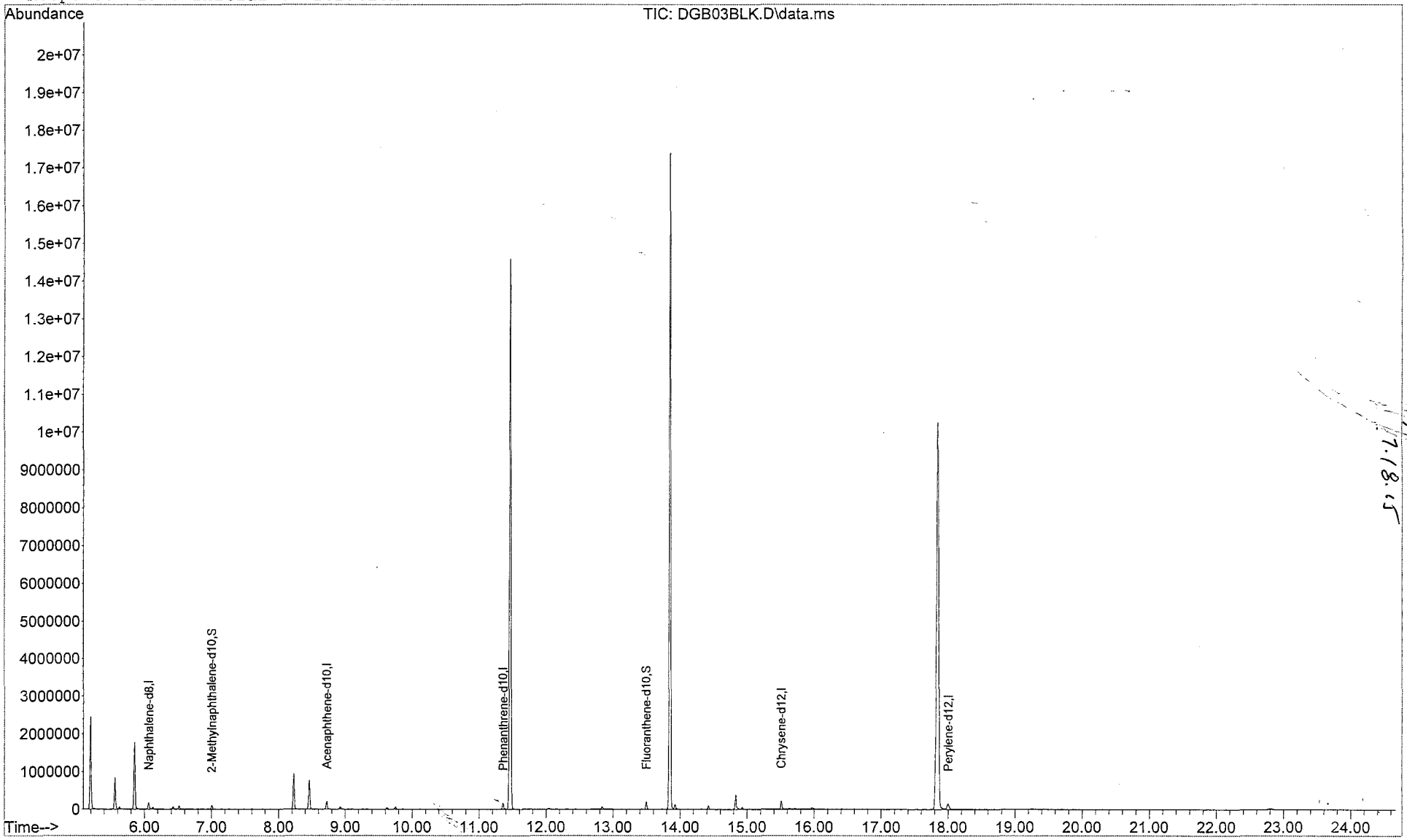
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.3	U
91-57-6	2-Methylnaphthalene	3.3	U
208-96-8	Acenaphthylene	3.3	U
83-32-9	Acenaphthene	3.3	U
86-73-7	Fluorene	3.3	U
87-86-5	Pentachlorophenol	6.7	U
85-01-8	Phenanthrene	3.3	U
120-12-7	Anthracene	3.3	U
206-44-0	Fluoranthene	3.3	U
129-00-0	Pyrene	3.3	U
56-55-3	Benzo(a)anthracene	3.3	U
218-01-9	Chrysene	3.3	U
205-99-2	Benzo(b)fluoranthene	3.3	U
207-08-9	Benzo(k)fluoranthene	3.3	U
50-32-8	Benzo(a)pyrene	3.3	U
193-39-5	Indeno(1,2,3-cd)pyrene	3.3	U
53-70-3	Dibenzo(a,h)anthracene	3.3	U
191-24-2	Benzo(g,h,i)perylene	3.3	U

Quantitation Report

Data File : R:\D\2015\JUN15\15JUN15\15JUN15\DGB03BLK.D Vial: 2
Acq On : 06/15/2015 15:32 Operator: SY
Sample : 450193 SBLK93 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 17 14:55:23 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



7.18.15

Quantitation Report

Data File : R:\D\2015\JUN15\15JUN15\15JUN15\DGB03BLK.D Vial: 2
Acq On : 06/15/2015 15:32 Operator: SY
Sample : 450193 SBLK93 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 17 14:55:23 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.06	136	187221	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	137158	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	237916	0.40 ug/ml
15) Chrysene-d12	15.51	240	246266	0.40 ug/ml
19) Perylene-d12	18.00	264	264194	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.00	152	110616	0.366ug/mL
13) Fluoranthene-d10	13.49	212	219827	0.338ug/mL
Target Compounds				Qvalue
2) Naphthalene	0.00	128		Not Detected
4) 2-Methylnaphthalene	0.00	142		Not Detected
6) Acenaphthylene	0.00	152		Not Detected
7) Acenaphthene	0.00	153		Not Detected
8) Fluorene	0.00	166		Not Detected
10) Pentachlorophenol	0.00	266		Not Detected
11) Phenanthrene	0.00	178		Not Detected
12) Anthracene	0.00	178		Not Detected
14) Fluoranthene	0.00	202		Not Detected
16) Pyrene	0.00	202		Not Detected
17) Benzo(a)anthracene	0.00	228		Not Detected
18) Chrysene	0.00	228		Not Detected
20) Benzo(b)fluoranthene	0.00	252		Not Detected
21) Benzo(k)fluoranthene	0.00	252		Not Detected
22) Benzo(a)pyrene	0.00	252		Not Detected
23) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected
25) Benzo(g,h,i)perylene	0.00	276		Not Detected

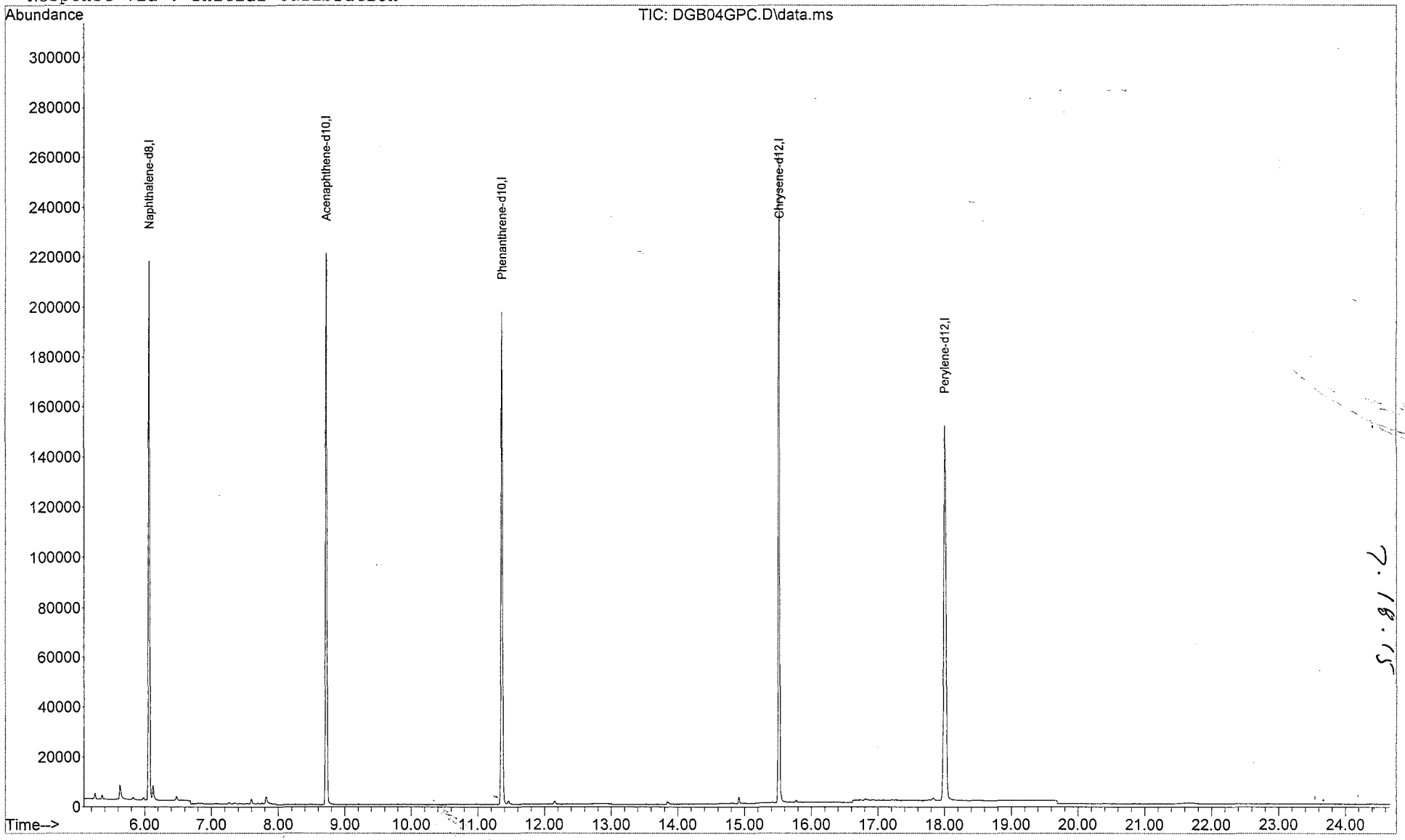
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : R:\D\2015\JUN15\15JUN15\15JUN15\DGB04GPC.D Vial: 3
Acq On : 06/15/2015 16:03 Operator: SY
Sample : 450810 GBLK10 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 15 16:27:55 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



7.16.15

Quantitation Report

Data File : R:\D\2015\JUN15\15JUN15\DGB04GPC.D Vial: 3
Acq On : 06/15/2015 16:03 Operator: SY
Sample : 450810 GBLK10 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 15 16:27:55 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.06	136	242147	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	155358	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	279131	0.40 ug/ml
15) Chrysene-d12	15.51	240	301360	0.40 ug/ml
19) Perylene-d12	18.00	264	285361	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.04	152	75	0.000ug/mL
13) Fluoranthene-d10	0.00	212	0	0.000ug/mL
Target Compounds				Qvalue
2) Naphthalene	0.00	128		Not Detected
4) 2-Methylnaphthalene	0.00	142		Not Detected
6) Acenaphthylene	0.00	152		Not Detected
7) Acenaphthene	0.00	153		Not Detected
8) Fluorene	0.00	166		Not Detected
10) Pentachlorophenol	0.00	266		Not Detected
11) Phenanthrene	0.00	178		Not Detected
12) Anthracene	0.00	178		Not Detected
14) Fluoranthene	0.00	202		Not Detected
16) Pyrene	0.00	202		Not Detected
17) Benzo(a)anthracene	0.00	228		Not Detected
18) Chrysene	0.00	228		Not Detected
20) Benzo(b)fluoranthene	0.00	252		Not Detected
21) Benzo(k)fluoranthene	0.00	252		Not Detected
22) Benzo(a)pyrene	0.00	252		Not Detected
23) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected
25) Benzo(g,h,i)perylene	0.00	276		Not Detected

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

91076

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-G

File Name	Date and Time Injected	OP	Method	ALS BOT	Run Length	Dil Fac	Sample name	Misc info
GBK01S20	06/12/2015 13:51	DJC	GSOM01D4	1	25.96	1	SSTD020GK 28296 DFTPPGK	X06/19/15
GBK02S20	06/12/2015 16:39	DJC	GSOM01D4	1	25.96	1	SSTD020GK 28296 DFTPPGK	X06/19/15
GBK03BLK	06/12/2015 17:14	DJC	GSOM01D4	2	25.96	1	450193 SBLK93	SOIL SOM
GBK04GPC	06/12/2015 17:46	DJC	GSOM01D4	3	25.96	1	450810 GBLK10	SOIL SOM
GBK05F01	06/12/2015 18:19	DJC	GSOM01D4	4	25.96	1	1515542001 F9M21 (30)	SOIL SOM
GBK06F02	06/12/2015 18:52	DJC	GSOM01D4	5	25.96	1	1515542002 F9M22 (10)	SOIL SOM
GBK07F03	06/12/2015 19:24	DJC	GSOM01D4	6	25.96	1	1515542003 F9M23 (30)	SOIL SOM
GBK08F04	06/12/2015 19:57	DJC	GSOM01D4	7	25.96	1	1515542004 F9M24 (30)	SOIL SOM
GBK09F05	06/12/2015 20:29	DJC	GSOM01D4	8	25.96	1	1515542005 F9M25 (20)	SOIL SOM
GBK10F06	06/12/2015 21:02	DJC	GSOM01D4	9	25.96	1	1515542006 F9M26 (20)	SOIL SOM
GBK11F07	06/12/2015 21:34	DJC	GSOM01D4	10	25.96	1	1515542007 F9M27 (5)	SOIL SOM
GBK12F10	06/12/2015 22:06	DJC	GSOM01D4	11	25.96	1	1515542010 F9M28 (10)	SOIL SOM
GBK13F11	06/12/2015 22:38	DJC	GSOM01D4	12	25.96	1	1515542011 F9M29 (5)	SOIL SOM
GBK14F12	06/12/2015 23:10	DJC	GSOM01D4	13	25.96	1	1515542012 F9M30 (5)	SOIL SOM
GBK15F13	06/12/2015 23:42	DJC	GSOM01D4	14	25.96	1	1515542013 F9M31 (10)	SOIL SOM
GBK16F14	06/13/2015 00:14	DJC	GSOM01D4	15	25.96	1	1515542014 F9M32 (10)	SOIL SOM
GBK17F15	06/13/2015 00:46	DJC	GSOM01D4	16	25.96	1	1515542015 F9M33 (5)	SOIL SOM
GBK18F16	06/13/2015 01:18	DJC	GSOM01D4	17	25.96	1	1515542016 F9M34 (10)	SOIL SOM
GBK19F17	06/13/2015 01:50	DJC	GSOM01D4	18	25.96	1	1515542017 F9M35 (10)	SOIL SOM
GBK20S20	06/13/2015 02:22	DJC	GSOM01D4	1	25.96	1	SSTD020K1 28296 DFTPPK1	X06/19/15
GBK21S20	06/13/2015 02:54	DJC	GSOM01D4	1	25.96	1	SSTD020K1 28296 DFTPPK1	X06/19/15
GBK22S20	06/13/2015 03:27	DJC	GSOM01D4	1	25.96	1	SSTD020K1 28296 DFTPPK1	X06/19/15
GBK23S20	06/13/2015 03:59	DJC	GSOM01D4	1	25.96	1	SSTD020K1 28296 DFTPPK1	X06/19/15
GBK24F18	06/13/2015 04:31	DJC	GSOM01D4	19	25.96	1	1515542018 F9M37 (10)	SOIL SOM
GBK25F19	06/13/2015 05:04	DJC	GSOM01D4	20	25.96	1	1515542019 F9M38 (10)	SOIL SOM
GBK26F20	06/13/2015 05:36	DJC	GSOM01D4	21	25.96	1	1515542020 F9M39 (5)	SOIL SOM
GBK27F21	06/13/2015 06:09	DJC	GSOM01D4	22	25.96	1	1515542021 F9M40 (10)	SOIL SOM
GBK28F22	06/13/2015 06:41	DJC	GSOM01D4	23	25.96	1	1515542022 F9M41 (5)	SOIL SOM
GBK29S20	06/13/2015 07:14	DJC	GSOM01D4	24	25.96	1	SSTD020K2 28296 DFTPPK2	X06/19/15
GBK30S20	06/13/2015 07:47	DJC	GSOM01D4	24	25.96	1	SSTD020K2 28296 DFTPPK2	X06/19/15
GBK31S20	06/13/2015 08:20	DJC	GSOM01D4	24	25.96	1	SSTD020K2 28296 DFTPPK2	X06/19/15
GBK32S20	06/13/2015 08:53	DJC	GSOM01D4	24	25.96	1	SSTD020K2 28296 DFTPPK2	X06/19/15
GBK33S20	06/13/2015 09:26	DJC	GSOM01D4	24	25.96	1	SSTD020K2 28296 DFTPPK2	X06/19/15

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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
GCP01S20	07/10/2015 09:42	TJM	GSOM01D6	1	25.96	1	SSTD020GP 28634 DFTPPGP	X07/19/15
GCP02F01	07/10/2015 10:20	TJM	GSOM01D6	2	25.96	1	1515542001 F9M21	SOIL SOM
GCP03F02	07/10/2015 10:54	TJM	GSOM01D6	3	25.96	1	1515542002 F9M22	SOIL SOM
GCP05F04	07/10/2015 11:27	TJM	GSOM01D6	4	25.96	1	1515542004 F9M24 (5)½ or 1/3	SOIL SOM
GCP06F05	07/10/2015 12:01	TJM	GSOM01D6	5	25.96	1	1515542005 F9M25	SOIL SOM
~~GCP07F06~~	~~07/10/2015 12:34~~	~~TJM~~	~~GSOM01D6~~	~~6~~	~~25.96~~	~~1~~	~~1515542006 F9M26~~	~~SOIL SOM~~
GCP08S20	07/10/2015 13:21	TJM	GSOM01D6	1	25.96	1	SSTD020G1 28634 DFTPPG1	X07/19/15 NEW L
GCP09F06	07/10/2015 13:54	TJM	GSOM01D6	6	25.96	1	1515542006 F9M26 2x or Straight	SOIL SOM
GCP10F07	07/10/2015 14:28	TJM	GSOM01D6	7	25.96	1	1515542007 F9M27	SOIL SOM
GCP11F10	07/10/2015 15:02	TJM	GSOM01D6	8	25.96	1	1515542010 F9M28	SOIL SOM
GCP12F11	07/10/2015 15:35	TJM	GSOM01D6	9	25.96	1	1515542011 F9M29	SOIL SOM
GCP13F12	07/10/2015 17:02	TJM	GSOM01D6	10	25.96	1	1515542012 F9M30	SOIL SOM
GCP14F13	07/10/2015 17:35	TJM	GSOM01D6	11	25.96	1	1515542013 F9M31	SOIL SOM
GCP15F14	07/10/2015 18:07	TJM	GSOM01D6	12	25.96	1	1515542014 F9M32 2x ~~or Straight~~	SOIL SOM
GCP16F15	07/10/2015 18:41	TJM	GSOM01D6	13	25.96	1	1515542015 F9M33	SOIL SOM
GCP17F16	07/10/2015 19:14	TJM	GSOM01D6	14	25.96	1	1515542016 F9M34 2x	SOIL SOM
GCP18F17	07/10/2015 19:47	TJM	GSOM01D6	15	25.96	1	1515542017 F9M35 ~~2x~~ or 3x	SOIL SOM
GCP19F18	07/10/2015 20:20	TJM	GSOM01D6	16	25.96	1	1515542018 F9M37 4x	SOIL SOM
GCP20F19	07/10/2015 20:53	TJM	GSOM01D6	17	25.96	1	1515542019 F9M38	SOIL SOM
GCP21F20	07/10/2015 21:26	TJM	GSOM01D6	18	25.96	1	1515542020 F9M39	SOIL SOM
GCP22F21	07/10/2015 21:59	TJM	GSOM01D6	19	25.96	1	1515542021 F9M40 4x or 6x	SOIL SOM
GCP23F22	07/10/2015 22:32	TJM	GSOM01D6	20	25.96	1	1515542022 F9M41 2x	SOIL SOM
GCP24S20	07/10/2015 23:06	TJM	GSOM01D6	1	25.96	1	SSTD020P2 28634 DFTPPP2	X07/19/15

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DATACHEM LABORATORIES - GC\MS SEMIVOLATILE ANALYSIS
INJECTION LOGBOOK
INSTRUMENT 5975-D

File Name	Date and Time Injected	OP	Method	ALS BOT	Run Length	Dil Fac	Sample name	Misc info
DDG01SP1	03/25/2015 09:26	DJC	DSOM_SIMJ1	1	24.66	1	SSTD0.1DG 27491	X:04/24/15
DDG02SP2	03/25/2015 09:55	DJC	DSOM_SIMJ1	2	24.66	1	SSTD0.2DG 27492	X:04/24/15
DDG03SP4	03/25/2015 10:25	DJC	DSOM_SIMJ1	3	24.66	1	SSTD0.4DG 27493	X:04/24/15
DDG04SP8	03/25/2015 10:55	DJC	DSOM_SIMJ1	4	24.66	1	SSTD0.8DG 27494	X:04/24/15
DDG05S01	03/25/2015 11:25	DJC	DSOM_SIMJ1	5	24.66	1	SSTD001DG 27495	X:04/24/15
DDG06S16	03/25/2015 11:55	DJC	DSOM_SIMJ1	6	24.66	1	SSTD1.6DG 27496	X:04/24/15
DDG07S32	03/25/2015 12:25	DJC	DSOM_SIMJ1	7	24.66	1	SSTD3.2DG 27497	X:04/24/15
DDG08GPC	03/25/2015 12:55	DJC	DSOM_SIMJ1	8	24.66	1	437579 GPCBLK	SOIL SIM
DDG09BLK	03/25/2015 13:24	DJC	DSOM_SIMJ1	9	24.66	1	437348 SBLK48	SOIL SIM
DDG10BLK	03/25/2015 13:54	DJC	DSOM_SIMJ1	10	24.66	1	437978 SBLK78	WATER SIM
DDG11C03	03/25/2015 14:24	DJC	DSOM_SIMJ1	11	24.66	1	1506563003 X1K60	SOIL SIM
DDG12C03	03/25/2015 14:54	DJC	DSOM_SIMJ1	12	24.66	1	1506558003 X1K55	WATER SIM
DDG13C03	03/25/2015 15:23	DJC	DSOM_SIMJ1	13	24.66	1	1506558003 X1K55 (3)	WATER SIM
DDG14SP4	03/25/2015 15:53	DJC	DSOM_SIMJ1	3	24.66	1	SSTD0.4G1 27493	X:04/24/15
DDG15GPC	03/25/2015 16:23	DJC	DSOM_SIMJ1	14	24.66	1	438538 GPCBLK	SOIL SIM
DDG16BLK	03/25/2015 16:53	DJC	DSOM_SIMJ1	15	24.66	1	438356 SBLK56	SOIL SIM
DDG17BLK	03/25/2015 17:23	DJC	DSOM_SIMJ1	16	24.66	1	438649 SBLK49	WATER SIM
DDG18C03	03/25/2015 17:53	DJC	DSOM_SIMJ1	17	24.66	1	1507830003 X1L96	SOIL SIM
DDG19C03	03/25/2015 18:22	DJC	DSOM_SIMJ1	18	24.66	1	1507829003 X1L91	WATER SIM
DDG20C03	03/25/2015 18:52	DJC	DSOM_SIMJ1	19	24.66	1	1507829003 X1L91 (3)	WATER SIM
DDG21SP4	03/25/2015 19:22	DJC	DSOM_SIMJ1	3	24.66	1	SSTD0.4G2 27493	X:04/24/15
DDG22SP4	03/25/2015 19:52	DJC	DSOM_SIMJ1	3	24.66	1	SSTD0.4G2 27493	X:04/24/15
DDH01S20	03/25/2015 20:24	DJC	DSOM03NEW	21	25.96	1	SSTD020DH 27500 DFTPPDH	X:04/24/15
DDH02S05	03/25/2015 20:57	DJC	DSOM03NEW	22	25.96	1	SSTD005DH 27498	X:04/24/15
DDH03S10	03/25/2015 21:31	DJC	DSOM03NEW	23	25.96	1	SSTD010DH 27499	X:04/24/15
DDH04S40	03/25/2015 22:04	DJC	DSOM03NEW	24	25.96	1	SSTD040DH 27502	X:04/24/15
DDH05S80	03/25/2015 22:37	DJC	DSOM03NEW	25	25.96	1	SSTD080DH 27503	X:04/24/15
DDH06S16	03/25/2015 23:10	DJC	DSOM03NEW	26	25.96	1	SSTD160DH 27504	X:04/24/15
DDH07GPC	03/25/2015 23:44	DJC	DSOM03NEW	27	25.96	1	437579 GPCBLK	SOIL SOM
DDH08BLK	03/26/2015 00:17	DJC	DSOM03NEW	28	25.96	1	437348 SBLK48	SOIL SOM
DDH09BLK	03/26/2015 00:50	DJC	DSOM03NEW	29	25.96	1	437978 SBLK78	WATER SOM
DDH10C02	03/26/2015 01:23	DJC	DSOM03NEW	30	25.96	1	1506563002 X1K59	SOIL SOM
DDH11C02	03/26/2015 01:56	DJC	DSOM03NEW	31	25.96	1	1506558002 X1K54	WATER SOM
DDH12S20	03/26/2015 02:29	DJC	DSOM03NEW	21	25.96	1	SSTD020H1 27500 DFTPPH1	X:04/24/15
DDH13S20	03/26/2015 03:02	DJC	DSOM03NEW	21	25.96	1	SSTD020H1 27500 DFTPPH1	X:04/24/15

DATACHEM LABORATORIES - GC\MS SEMIVOLATILE ANALYSIS
INJECTION LOGBOOK
INSTRUMENT 5975-D

File Name	Date and Time Injected	OP	Method	ALS BOT	Run Length	Dil Fac	Sample name	Misc info
DGB01SP4	06/15/2015 15:02	SY	DSOM_SIMJ2	1	24.66	1	SSTD0.4DB 28297	X6-19-15
DGB03BLK	06/15/2015 15:32	SY	DSOM_SIMJ2	2	24.66	1	450193 SBLK93	X6-19-15
DGB04GPC	06/15/2015 16:03	SY	DSOM_SIMJ2	3	24.66	1	450810 GBLK10	X6-19-15
DGB05F01	06/15/2015 16:33	SY	DSOM_SIMJ2	4	24.66	1	1515542001 F9M21 (30)	X6-19-15
DGB06F02	06/15/2015 17:03	SY	DSOM_SIMJ2	5	24.66	1	1515542002 F9M22 (10)	X6-19-15
DGB07F03	06/15/2015 17:33	SY	DSOM_SIMJ2	6	24.66	1	1515542003 F9M23 (200)	X6-19-15
DGB08F04	06/15/2015 18:04	SY	DSOM_SIMJ2	7	24.66	1	1515542004 F9M24 (60)	X6-19-15
DGB09F05	06/15/2015 18:34	SY	DSOM_SIMJ2	8	24.66	1	1515542005 F9M25 (20)	X6-19-15
DGB10F06	06/15/2015 19:04	SY	DSOM_SIMJ2	9	24.66	1	1515542006 F9M26 (20)	X6-19-15
DGB11F07	06/15/2015 19:33	SY	DSOM_SIMJ2	10	24.66	1	1515542007 F9M27 (5)	X6-19-15
DGB12F10	06/15/2015 20:03	SY	DSOM_SIMJ2	11	24.66	1	1515542010 F9M28 (10)	X6-19-15
DGB13F11	06/15/2015 20:33	SY	DSOM_SIMJ2	12	24.66	1	1515542011 F9M29 (5)	X6-19-15
DGB14F12	06/15/2015 21:03	SY	DSOM_SIMJ2	13	24.66	1	1515542012 F9M30 (5)	X6-19-15
DGB15F13	06/15/2015 21:32	SY	DSOM_SIMJ2	14	24.66	1	1515542013 F9M31 (10)	X6-19-15
DGB16F14	06/15/2015 22:02	SY	DSOM_SIMJ2	15	24.66	1	1515542014 F9M32 (10)	X6-19-15
DGB17F15	06/15/2015 22:32	SY	DSOM_SIMJ2	16	24.66	1	1515542015 F9M33 (5)	X6-19-15
DGB18F16	06/15/2015 23:01	SY	DSOM_SIMJ2	17	24.66	1	1515542016 F9M34 (10	X6-19-15
DGB19F17	06/15/2015 23:31	SY	DSOM_SIMJ2	18	24.66	1	1515542017 F9M35 (10)	X6-19-15
DGB20SP4	06/16/2015 00:01	SY	DSOM_SIMJ2	1	24.66	1	SSTD0.4D1 28297	X6-19-15
DGB21SP4	06/16/2015 00:30	SY	DSOM_SIMJ2	1	24.66	1	SSTD0.4D1 28297	X6-19-15
DGB22F18	06/16/2015 01:00	SY	DSOM_SIMJ2	19	24.66	1	1515542018 F9M37 (20)	X6-19-15
DGB23F19	06/16/2015 01:29	SY	DSOM_SIMJ2	20	24.66	1	1515542019 F9M38 (10)	X6-19-15
DGB24F20	06/16/2015 01:59	SY	DSOM_SIMJ2	21	24.66	1	1515542020 F9M39 (5)	X6-19-15
DGB25F21	06/16/2015 02:28	SY	DSOM_SIMJ2	22	24.66	1	1515542021 F9M40 (20)	X6-19-15
DGB26F22	06/16/2015 02:58	SY	DSOM_SIMJ2	23	24.66	1	1515542022 F9M41 (5)	X6-19-15
DGB27SP4	06/16/2015 03:28	SY	DSOM_SIMJ2	24	24.66	1	SSTD0.4D2 28297	X6-19-15
DGB28SP4	06/16/2015 03:57	SY	DSOM_SIMJ2	24	24.66	1	SSTD0.4D2 28297	X6-19-15
DGB29SP4	06/16/2015 04:27	SY	DSOM_SIMJ2	24	24.66	1	SSTD0.4D2 28297	X6-19-15
DGB30SP4	06/16/2015 04:57	SY	DSOM_SIMJ2	24	24.66	1	SSTD0.4D2 28297	X6-19-15

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
DFN12F07	07/16/2015 13:48	DJC	DSOM_SIMJ2	6	24.66	1	1515542007 F9M27	SOIL SIM
DFN13F10	07/16/2015 14:18	DJC	DSOM_SIMJ2	7	24.66	1	1515542010 F9M28	SOIL SIM
DFN14F11	07/16/2015 14:48	DJC	DSOM_SIMJ2	8	24.66	1	1515542011 F9M29	SOIL SIM
DFN15F12	07/16/2015 15:18	DJC	DSOM_SIMJ2	9	24.66	1	1515542012 F9M30	SOIL SIM
DFN16F13	07/16/2015 15:49	DJC	DSOM_SIMJ2	10	24.66	1	1515542013 F9M31	SOIL SIM
DFN17F14	07/16/2015 16:19	DJC	DSOM_SIMJ2	11	24.66	1	1515542014 F9M32 (2)	SOIL SIM
DFN18F15	07/16/2015 16:49	DJC	DSOM_SIMJ2	12	24.66	1	1515542015 F9M33	SOIL SIM
DFN19F16	07/16/2015 17:19	DJC	DSOM_SIMJ2	13	24.66	1	1515542016 F9M34 (2)	SOIL SIM
DFN20F17	07/16/2015 17:50	DJC	DSOM_SIMJ2	14	24.66	1	1515542017 F9M35 (3)	SOIL SIM
DFN21F19	07/16/2015 18:20	DJC	DSOM_SIMJ2	15	24.66	1	1515542019 F9M38	SOIL SIM
DFN22F20	07/16/2015 18:50	DJC	DSOM_SIMJ2	16	24.66	1	1515542020 F9M39	SOIL SIM
DFN23SP4	07/16/2015 19:20	DJC	DSOM_SIMJ2	1	24.66	1	SSTD0.4N1 28658	X7-19-15
DFN24SP4	07/16/2015 19:50	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 45346 SDG F9M21 Fraction SVOA

DELIVERABLES CHECK - All forms are present and have been checked for completeness and accuracy. All raw data such as quantitation reports, chromatograms, and spectra are included and are in the correct order.

Signature Thomas J. Mason Date 7.20.15

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 Thomas J. Mason Date 7.20.15

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 [illegible] Date 7/20/15

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 [illegible] Date 7/20/15

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 Dennis Hall Date 07/20/2015