



received 07/29/2016
Complaint 200439757

GC/MS Semivolatiles

SIMPAH

Case Narrative

COGCC

Complaint 200439757

Work Order Number: 1607364

1. This report consists of 1 water sample. The sample was received cool and intact by ALS on 07/20/16.
2. The sample was prepared and analyzed according to SW-846, 3rd Edition procedures. Specifically, the water sample was extracted using continuous liquid-liquid extractors, according to SW-846 Method 3520C, utilizing the current revision of SOP 617.
3. The extract was analyzed using GC/MS with a DB-5MS capillary column according to the current revision of SOP 506 based on SW-846 Method 8270D. The samples were analyzed using selective ion monitoring (SIM), in order to achieve lower reporting limits. All positive results were quantitated against the initial calibration standards using the internal standard technique. The identification of positive results was achieved by a comparison of the retention time and a limited number of major ions from the mass spectrum of the sample versus the daily calibration standard.
4. All initial calibration criteria were met. If average response factors were used in the initial calibration, %RSD was $\leq 20\%$. If linear or higher order regression calibrations were used in the initial calibration, the coefficient of determination (r^2) ≥ 0.99 .
5. All initial calibration standards are verified by comparing a second source standard initial calibration verification (ICV) against the calibration curve. All target compounds in the second source verification had a %D $\leq 30\%$.
6. All compounds in the daily (continuing) calibration verifications were within 20%D.
7. All method blank criteria were met.



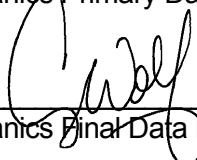
8. A laboratory control spike and laboratory control spike duplicate were not reported with this data package. See SW8270 report for LCS/LCSD results.
9. A matrix spike and matrix spike duplicate were not performed because of insufficient sample. A laboratory control sample and laboratory control sample duplicate were performed instead.
10. The sample was extracted and analyzed within the established holding times.
11. Surrogate recoveries were not calculated for the sample in this data package. See SW8270 report for surrogate recoveries.
12. All internal standard recoveries were within acceptance criteria.
13. Manual integrations are performed when needed to provide consistent and defensible data following the guidelines in the current revision of SOP 939.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.



Emily Lyons
Organics Primary Data Reviewer

7/27/16
Date



Organics Final Data Reviewer

7/28/16
Date

ALS
Data Qualifier Flags
Organics

- U or ND:** This flag indicates that the compound was analyzed for but not detected.
- J:** This flag indicates an estimated value. This flag is used as follows : (1) when estimating a concentration for tentatively identified compounds (TICs) where a 1:1 response is assumed; (2) when the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the reporting limit (RL) but greater than the method detection limit (MDL); (3) when the retention time data indicate the presence of a compound that meets the GC identification criteria, and the result is less than the RL but greater than the MDL; and (4) the reported value is estimated.
- B:** This flag is used when the analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user. This flag shall be used for a tentatively identified compound (TIC) as well as for a positively identified target compound.
- E:** This flag identifies compounds whose concentration exceeds the upper level of the calibration range.
- A:** This flag indicates that a tentatively identified compound is a suspected aldol-condensation product.
- X:** This flag indicates that the analyte was diluted below an accurate quantitation level.
- *:** This flag indicates that a spike recovery is equal to or outside the control criteria used.
- +:** This flag indicates that the relative percent difference (RPD) equals or exceeds the control criteria.

ALS -- Fort Collins

Sample Number(s) Cross-Reference Table

OrderNum: 1607364

Client Name: COGCC

Client Project Name: Complaint 200439757

Client Project Number:

Client PO Number: CT 2016-141

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
754914 Sump	1607364-1		WATER	20-Jul-16	9:21



ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: COGCC

Workorder No: 1607364

Project Manager: ARW

Initials: SDM Date: 7-20-16

1. Does this project require any special handling in addition to standard ALS procedures?		YES	<input checked="" type="radio"/> NO
2. Are custody seals on shipping containers intact?	<input checked="" type="radio"/> NONE	YES	NO
3. Are Custody seals on sample containers intact?	<input checked="" type="radio"/> NONE	YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		<input checked="" type="radio"/> YES	NO
5. Are the COC and bottle labels complete and legible?		<input checked="" type="radio"/> YES	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		<input checked="" type="radio"/> YES	NO
7. Were airbills / shipping documents present and/or removable?	<input checked="" type="radio"/> DROP OFF	YES	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	<input checked="" type="radio"/> N/A	YES	NO
9. Are all aqueous non-preserved samples pH 4-9?	N/A	<input checked="" type="radio"/> YES	NO
10. Is there sufficient sample for the requested analyses?		<input checked="" type="radio"/> YES	NO
11. Were all samples placed in the proper containers for the requested analyses?		<input checked="" type="radio"/> YES	NO
12. Are all samples within holding times for the requested analyses?		<input checked="" type="radio"/> YES	NO
13. Were all sample containers received intact? (not broken or leaking, etc.)		<input checked="" type="radio"/> YES	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: <u>X</u> < green pea _____ > green pea	N/A	YES	<input checked="" type="radio"/> NO
15. Do any water samples contain sediment? Amount Amount of sediment: _____ dusting _____ moderate _____ heavy	N/A	YES	<input checked="" type="radio"/> NO
16. Were the samples shipped on ice?		<input checked="" type="radio"/> YES	NO
17. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: <input checked="" type="radio"/> #2 #4		<input checked="" type="radio"/> YES	NO
Cooler #: <u>1</u>			
Temperature (°C): <u>5.0</u>			
No. of custody seals on cooler: <u>2</u>			
DOT Survey/ Acceptance Information	External µR/hr reading: <u>N/A</u>		
	Background µR/hr reading: <u>11</u>		
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? YES / NO / <input checked="" type="radio"/> NA (If no, see Form 008.)			

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.

14.) Sample 1 bottles 2 & 3 have a headspace X green pea.
SDR >
Sample 1 bottle 1 has a headspace < green pea.

If applicable, was the client contacted? YES / NO / ☒ NA Contact: _____ Date/Time: _____

Project Manager Signature / Date: [Signature] 7/20/16

*IR Gun #2: Oakton, SN 29922500201-0066
*IR Gun #4: Oakton, SN 2372220101-0002

GC/MS Semi-volatiles

Method SW8270SIMD

Method Blank

Lab Name: ALS -- Fort Collins

Work Order Number: 1607364

Client Name: COGCC

ClientProject ID: Complaint 200439757

Lab ID: EX160721-2MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 21-Jul-16

Date Analyzed: 25-Jul-16

Prep Batch: EX160721-2

QCBatchID: EX160721-2-3

Run ID: SV160725-4

Cleanup: NONE

Basis: N/A

File Name: S04502

Sample Aliquot: 1000 ml

Final Volume: 1 ml

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	DF	Result	RptLimit/ LOQ/LOD	MDL/DL	Result Qualifier	EPA Qualifier
91-20-3	NAPHTHALENE	1	0.1	0.1	0.1	U	
91-57-6	2-METHYLNAPHTHALENE	1	0.1	0.1	0.1	U	
90-12-0	1-METHYLNAPHTHALENE	1	0.1	0.1	0.1	U	
208-96-8	ACENAPHTHYLENE	1	0.1	0.1	0.1	U	
83-32-9	ACENAPHTHENE	1	0.1	0.1	0.1	U	
86-73-7	FLUORENE	1	0.1	0.1	0.1	U	
85-01-8	PHENANTHRENE	1	0.1	0.1	0.1	U	
120-12-7	ANTHRACENE	1	0.1	0.1	0.1	U	
206-44-0	FLUORANTHENE	1	0.1	0.1	0.1	U	
129-00-0	PYRENE	1	0.1	0.1	0.1	U	
56-55-3	BENZO(A)ANTHRACENE	1	0.1	0.1	0.1	U	
218-01-9	CHRYSENE	1	0.1	0.1	0.1	U	
205-99-2	BENZO(B)FLUORANTHENE	1	0.1	0.1	0.1	U	
207-08-9	BENZO(K)FLUORANTHENE	1	0.1	0.1	0.1	U	
50-32-8	BENZO(A)PYRENE	1	0.1	0.1	0.1	U	
193-39-5	INDENO(1,2,3-CD)PYRENE	1	0.1	0.1	0.1	U	
53-70-3	DIBENZO(A,H)ANTHRACENE	1	0.1	0.1	0.1	U	
191-24-2	BENZO(G,H,I)PERYLENE	1	0.1	0.1	0.1	U	

Data Package ID: SV1607364-2

Date Printed: Wednesday, July 27, 2016

ALS -- Fort Collins

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LIMS Version: 6.820

GC/MS Semi-volatiles

Method SW8270SIMD

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 1607364

Client Name: COGCC

ClientProject ID: Complaint 200439757

Field ID: 754914 Sump

Lab ID: 1607364-1

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 20-Jul-16

Date Extracted: 21-Jul-16

Date Analyzed: 25-Jul-16

Prep Method: SW3520 Rev C

Prep Batch: EX160721-2

QC Batch ID: EX160721-2-3

Run ID: SV160725-4

Cleanup: NONE

Basis: As Received

File Name: S04506

Analyst: Tyler Knaebel

Sample Aliquot: 1015 ml

Final Volume: 1 ml

Result Units: UG/L

Clean DF: 1

Analysis ReqCode: SIM PAH from S

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/LOQ/LOD	MDL/DL	Result Qualifier	EPA Qualifier
91-20-3	NAPHTHALENE	1	2.7	0.099	0.099		
91-57-6	2-METHYLNAPHTHALENE	1	0.39	0.099	0.099		
90-12-0	1-METHYLNAPHTHALENE	1	0.3	0.099	0.099		
208-96-8	ACENAPHTHYLENE	1	0.16	0.099	0.099		
83-32-9	ACENAPHTHENE	1	0.099	0.099	0.099	U	
86-73-7	FLUORENE	1	0.099	0.099	0.099	U	
85-01-8	PHENANTHRENE	1	0.11	0.099	0.099		
120-12-7	ANTHRACENE	1	0.099	0.099	0.099	U	
206-44-0	FLUORANTHENE	1	0.099	0.099	0.099	U	
129-00-0	PYRENE	1	1.2	0.099	0.099		
56-55-3	BENZO(A)ANTHRACENE	1	0.099	0.099	0.099	U	
218-01-9	CHRYSENE	1	0.099	0.099	0.099	U	
205-99-2	BENZO(B)FLUORANTHENE	1	0.099	0.099	0.099	U	
207-08-9	BENZO(K)FLUORANTHENE	1	0.099	0.099	0.099	U	
50-32-8	BENZO(A)PYRENE	1	0.099	0.099	0.099	U	
193-39-5	INDENO(1,2,3-CD)PYRENE	1	0.099	0.099	0.099	U	
53-70-3	DIBENZO(A,H)ANTHRACENE	1	0.099	0.099	0.099	U	
191-24-2	BENZO(G,H,I)PERYLENE	1	0.099	0.099	0.099	U	

Data Package ID: SV1607364-2

Date Printed: Wednesday, July 27, 2016

ALS -- Fort Collins

LIMS Version: 6.820

Page 1 of 2

Data Path : C:\msdchem\1\data\2016\072516A\
 Data File : S04501.D
 Acq On : 25 Jul 2016 14:10
 Operator : TK HPSV4 sn #: CV11451177
 Sample : SV160725-4CCV
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 25 14:31:36 2016
 Quant Method : C:\msdchem\1\methods\070816S.M
 Quant Title : SW8270D Full Scan Analysis
 QLast Update : Mon Jul 25 14:31:28 2016
 Response via : Initial Calibration

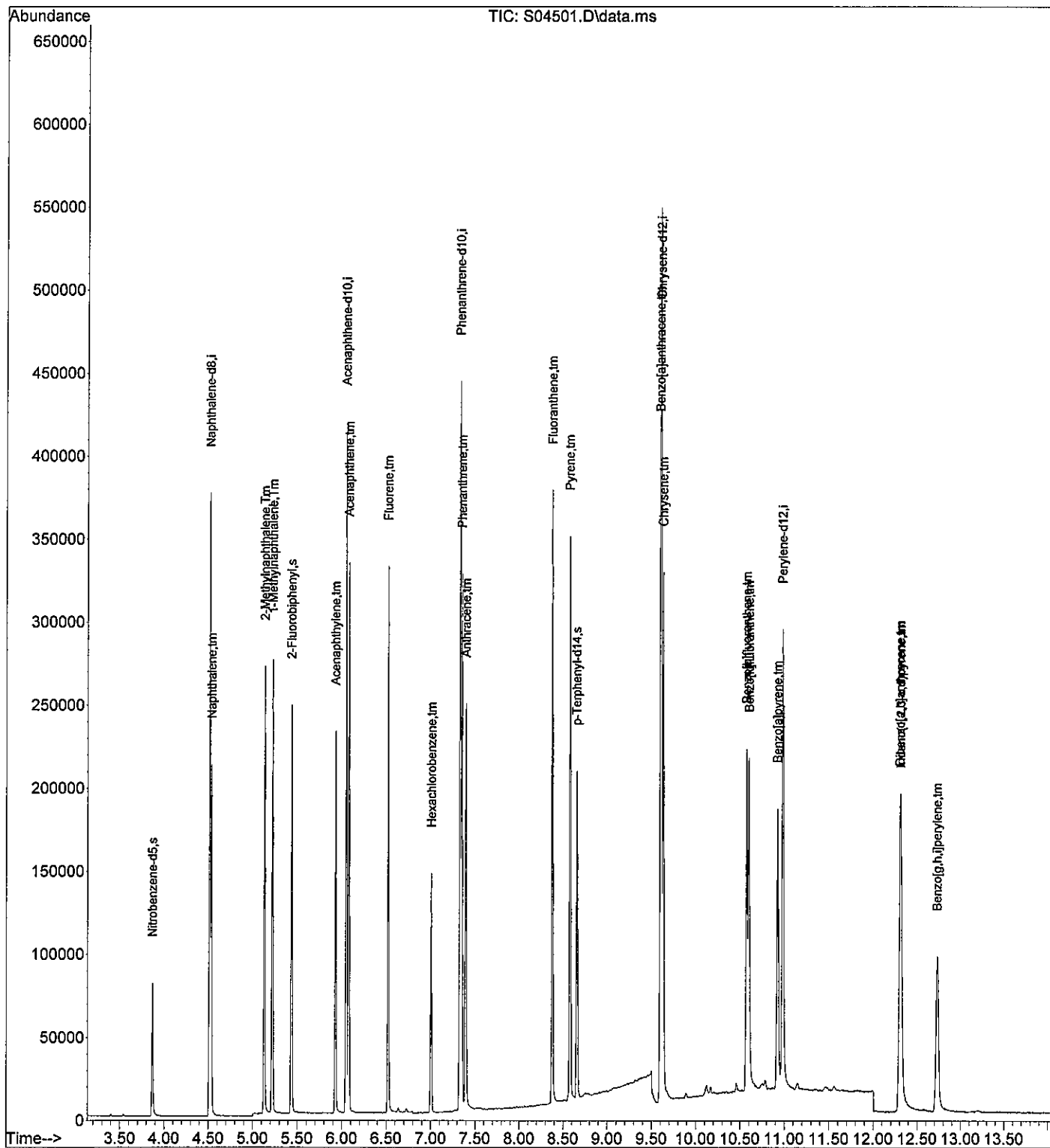
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) Naphthalene-d8	4.515	136	257900	2000.00	ng/ml	# 0.00
6) Acenaphthene-d10	6.047	164	156259	2000.00	ng/ml	# 0.00
11) Phenanthrene-d10	7.331	188	336936	2000.00	ng/ml	# 0.00
16) Chrysene-d12	9.610	240	341384	2000.00	ng/ml	# 0.00
21) Perylene-d12	10.981	264	282676	2000.00	ng/ml	# 0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.869	82	53295	1323.62	ng/ml	0.00
Spiked Amount 2000.000	Range 34	- 111	Recovery	=	66.18%	
7) 2-Fluorobiphenyl	5.435	172	132520	1010.84	ng/ml	0.00
Spiked Amount 2000.000	Range 21	- 106	Recovery	=	50.54%	
18) p-Terphenyl-d14	8.656	244	162070	1143.96	ng/ml	0.00
Spiked Amount 2000.000	Range 33	- 111	Recovery	=	57.20%	
Target Compounds						
						Qvalue
3) Naphthalene	4.534	128	137687	1016.64	ng/ml	100
4) 2-Methylnaphthalene	5.134	142	101777	1072.68	ng/ml	98
5) 1-Methylnaphthalene	5.222	142	90237	1048.43	ng/ml	99
8) Acenaphthylene	5.927	152	139953	1112.60	ng/ml#	100
9) Acenaphthene	6.078	154	96657	999.31	ng/ml	99
10) Fluorene	6.518	166	117711	1023.42	ng/ml	100
12) Hexachlorobenzene	7.008	284	41960	903.17	ng/ml	98
13) Phenanthrene	7.351	178	194896	964.55	ng/ml	100
14) Anthracene	7.397	178	178932	1148.99	ng/ml	99
15) Fluoranthene	8.379	202	210693	1099.46	ng/ml#	99
17) Pyrene	8.577	202	211132	1054.22	ng/ml#	99
19) Benzo[a]anthracene	9.598	228	190520	1161.59	ng/ml	99
20) Chrysene	9.633	228	202581	1018.96	ng/ml	97
22) Benzo[b]fluoranthene	10.574	252	171992	875.56	ng/ml	100
23) Benzo[k]fluoranthene	10.600	252	197266	1013.53	ng/ml	98
24) Benzo[a]pyrene	10.924	252	168145	1015.55	ng/ml#	98
25) Indeno(1,2,3-c,d)pyrene	12.314	276	169962	937.04	ng/ml	99
26) Dibenzo[a,h]anthracene	12.304	278	140524	934.86	ng/ml	99
27) Benzo[g,h,i]perylene	12.728	276	145050	918.77	ng/ml	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

an 7/26/16

Data Path : C:\msdchem\1\data\2016\072516A\
Data File : S04501.D
Acq On : 25 Jul 2016 14:10
Operator : TK HPSV4 sn #: CV11451177
Sample : SV160725-4CCV
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 25 14:31:36 2016
Quant Method : C:\msdchem\1\methods\070816S.M
Quant Title : SW8270D Full Scan Analysis
QLast Update : Mon Jul 25 14:31:28 2016
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\2016\072516A\
 Data File : S04502.D
 Acq On : 25 Jul 2016 14:32
 Operator : TK HPSV4 sn #: CV11451177
 Sample : EX160721-2MB
 Misc : EX160721-2 water
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 25 14:47:44 2016
 Quant Method : C:\msdchem\1\methods\070816S.M
 Quant Title : SW8270D Full Scan Analysis
 QLast Update : Mon Jul 25 14:31:28 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.515	136	231617	2000.00	ng/ml	# 0.00
6) Acenaphthene-d10	6.046	164	136389	2000.00	ng/ml	# 0.00
11) Phenanthrene-d10	7.329	188	285516	2000.00	ng/ml	# 0.00
16) Chrysene-d12	9.608	240	281696	2000.00	ng/ml	# 0.00
21) Perylene-d12	10.980	264	225024	2000.00	ng/ml	# 0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	3.874	82	61	1.69	ng/ml	0.00
Spiked Amount 2000.000	Range 34 - 111		Recovery	=	0.08%#	
7) 2-Fluorobiphenyl	5.486	172	51	0.45	ng/ml	0.05
Spiked Amount 2000.000	Range 21 - 106		Recovery	=	0.02%#	
18) p-Terphenyl-d14	8.661	244	354	3.03	ng/ml	0.00
Spiked Amount 2000.000	Range 33 - 111		Recovery	=	0.15%#	

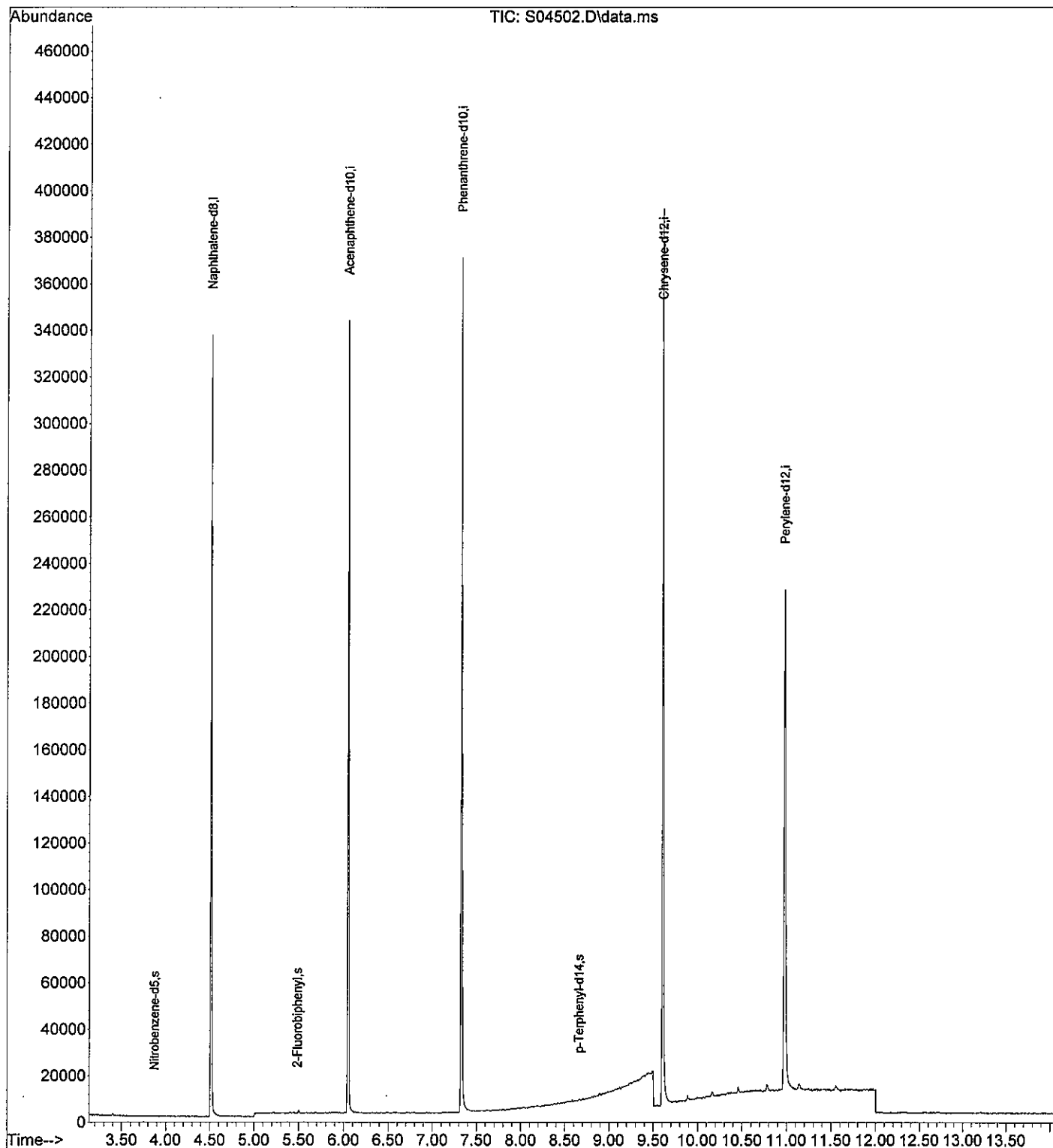
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

an 7/26/16

Data Path : C:\msdchem\1\data\2016\072516A\
Data File : S04502.D
Acq On : 25 Jul 2016 14:32
Operator : TK HPSV4 sn #: CV11451177
Sample : EX160721-2MB
Misc : EX160721-2 water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 25 14:47:44 2016
Quant Method : C:\msdchem\1\methods\070816S.M
Quant Title : SW8270D Full Scan Analysis
QLast Update : Mon Jul 25 14:31:28 2016
Response via : Initial Calibration



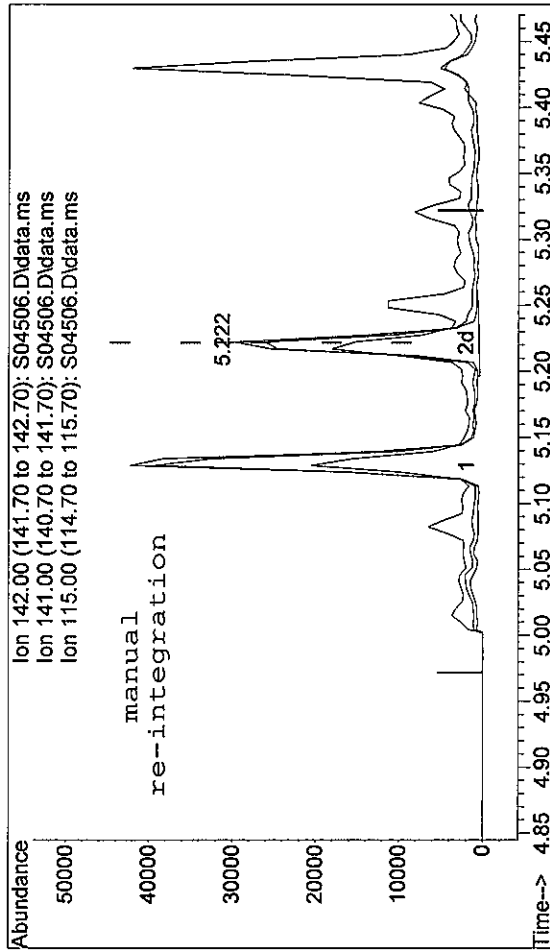
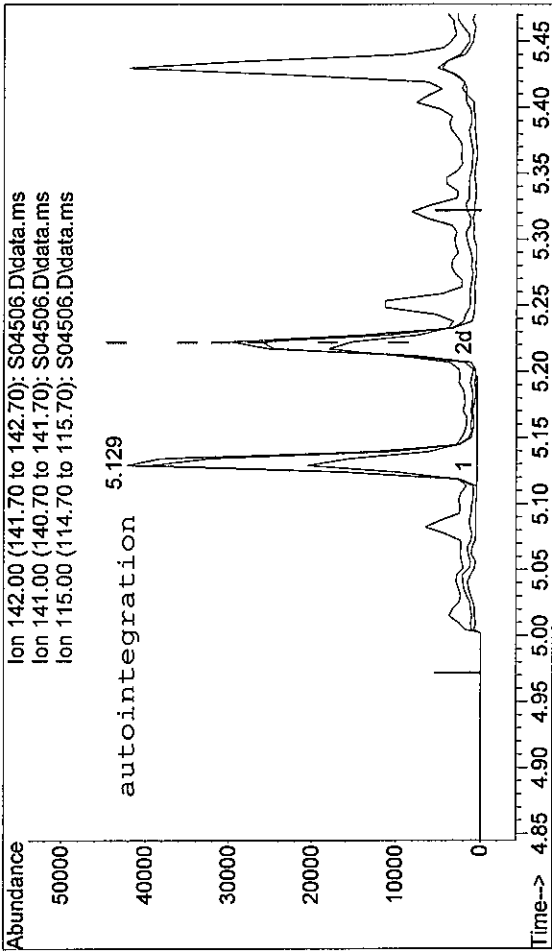
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 Data File : S04506.D
 Acq On : 25 Jul 2016 15:47
 Operator : TK HPSV4 sn #: CV11451177
 Sample : 1607364-1
 Misc : EX160721-2 water
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 25 16:14:30 2016
 Quant Method : C:\msdchem\1\methods\070816S.M
 Quant Title : SW8270D Full Scan Analysis
 QLast Update : Mon Jul 25 14:31:28 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) Naphthalene-d8	4.513	136	242450	2000.00	ng/ml	# 0.00
6) Acenaphthene-d10	6.047	164	149173	2000.00	ng/ml	# 0.00
11) Phenanthrene-d10	7.325	188	308742	2000.00	ng/ml	# 0.00
16) Chrysene-d12	9.598	240	323976	2000.00	ng/ml	#-0.01
21) Perylene-d12	10.966	264	265116	2000.00	ng/ml	#-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5	3.867	82	1915801	50612.34	ng/ml	0.00
Spiked Amount 2000.000	Range 34 - 111		Recovery = 2530.62%#			
7) 2-Fluorobiphenyl	5.435	172	4617298	36892.87	ng/ml	0.00
Spiked Amount 2000.000	Range 21 - 106		Recovery = 1844.64%#			
18) p-Terphenyl-d14	8.656	244	6126647	45568.18	ng/ml	0.00
Spiked Amount 2000.000	Range 33 - 111		Recovery = 2278.41%#			
Target Compounds						
3) Naphthalene	4.532	128	351807	2763.18	ng/ml	Qvalue 99
4) 2-Methylnaphthalene	5.129	142	35721	400.47	ng/ml	92
5) 1-Methylnaphthalene	5.222	142	24776m	306.21	ng/ml	21
8) Acenaphthylene	5.927	152	19049	158.63	ng/ml#	21
9) Acenaphthene	6.171	154	7315	79.22	ng/ml	83
10) Fluorene	6.519	166	17852	162.58	ng/ml#	21
13) Phenanthrene	7.344	178	21496	116.10	ng/ml#	62
14) Anthracene	7.410	178	15119	105.95	ng/ml#	1
15) Fluoranthene	8.340	202	68840m	392.03	ng/ml	20
17) Pyrene	8.577	202	222867	1172.61	ng/ml#	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

an 7/26/16



TIC: S04506.D\data.ms

(5)	1-Methylnaphthalene (Tm)	
5.129min (-0.093)	441.48 ng/ml	
response	35721	
Ion	Exp%	Act%
142.00	100.00	100.00
141.00	91.30	92.29
115.00	46.30	45.88
0.00	0.00	0.00

Reason for manual re-integration?

☒ missed peak assignment

☐ peak saturation (detector shutdown)

☐ over-integrated peak's area

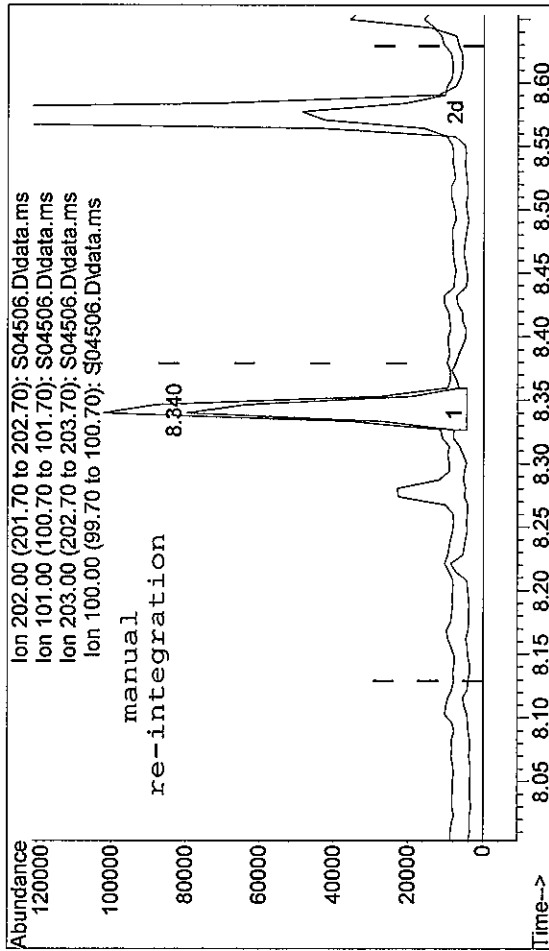
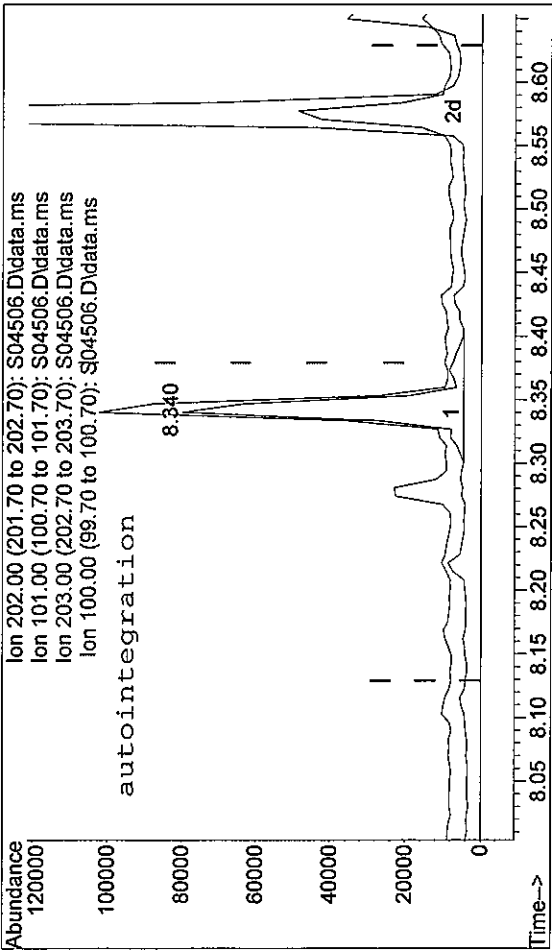
☐ under-integrated peak's area

☐ other ()

initials: TA date: 7 / 26 / 16

TIC: S04506.D\data.ms

(5)	1-Methylnaphthalene (Tm)	
5.222min (+ 0.000)	306.21 ng/ml m	
response	24776	
Ion	Exp%	Act%
142.00	100.00	100.00
141.00	91.30	133.06#
115.00	46.30	66.15#
0.00	0.00	0.00



TIC: S04506.D\data.ms

(15)	Fluoranthene	(tm)
8.340min	(-0.039)	440.98 ng/ml
response	77436	
Ion	Exp%	Act%
202.00	100.00	100.00
101.00	0.00	0.00
203.00	17.10	115.66#
100.00	0.00	0.00

Reason for manual re-integration?

- ☐ missed peak assignment
- ☐ peak saturation (detector shutdown)
- ☒ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other ()

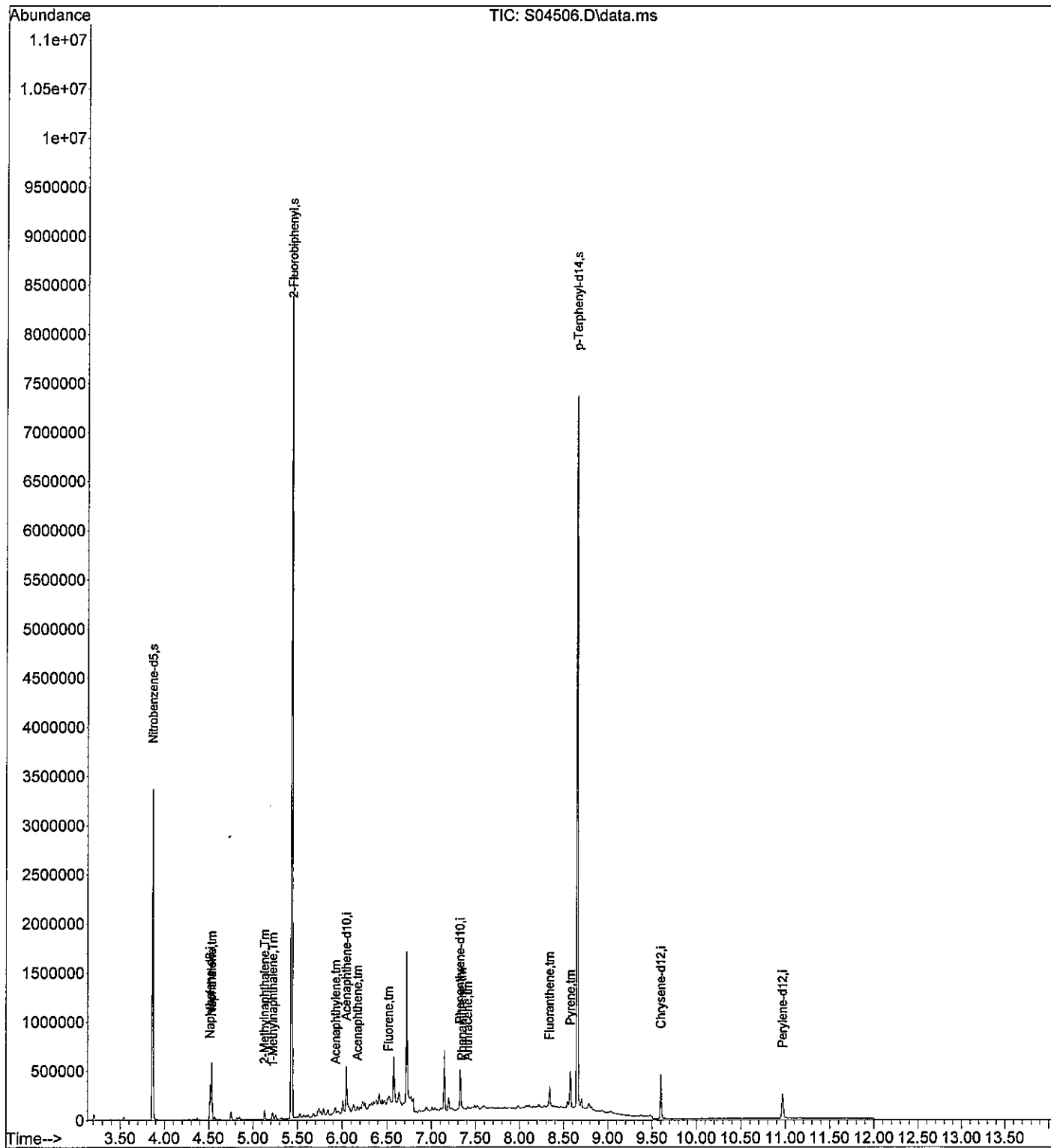
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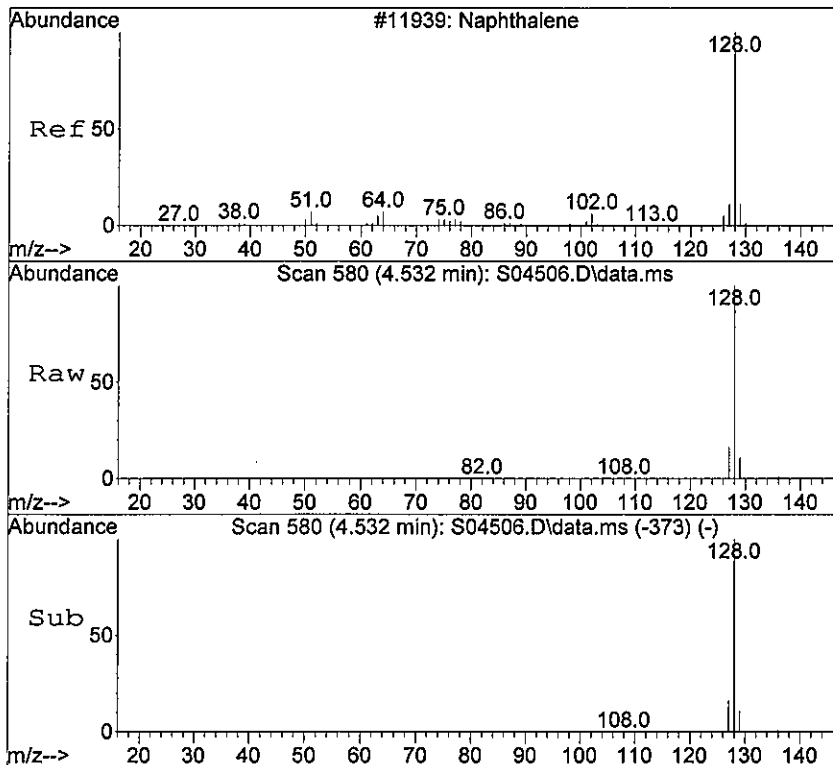
TIC: S04506.D\data.ms

(15)	Fluoranthene	(tm)
8.340min	(-0.039)	392.03 ng/ml m
response	68840	
Ion	Exp%	Act%
202.00	100.00	100.00
101.00	0.00	0.00
203.00	17.10	130.10#
100.00	0.00	0.00

Data Path : C:\msdchem\1\data\2016\072516A\
Data File : S04506.D
Acq On : 25 Jul 2016 15:47
Operator : TK HPSV4 sn #: CV11451177
Sample : 1607364-1
Misc : EX160721-2 water
ALS Vial : 7 Sample Multiplier: 1

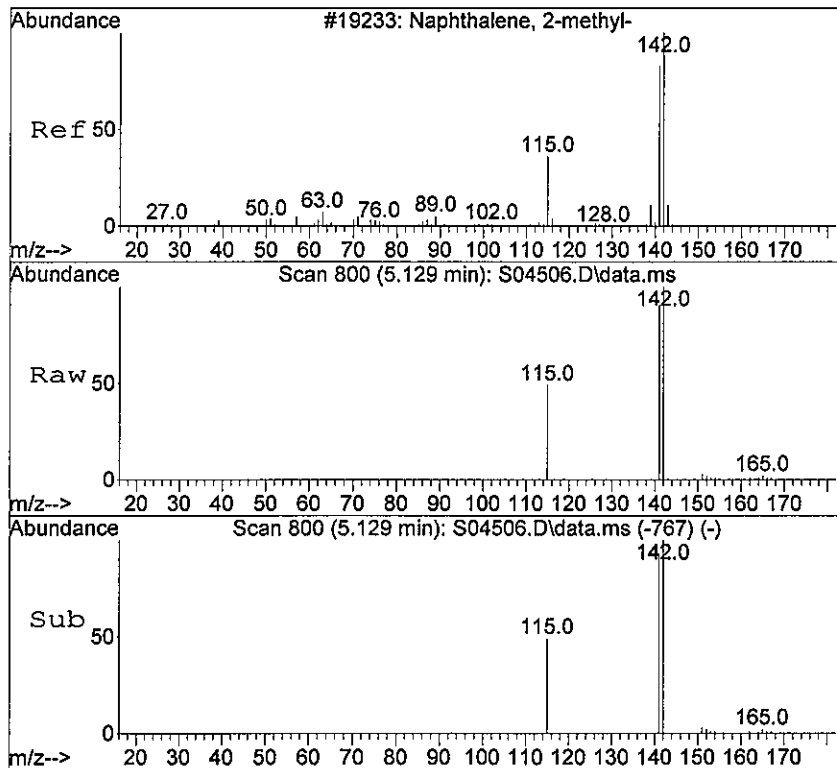
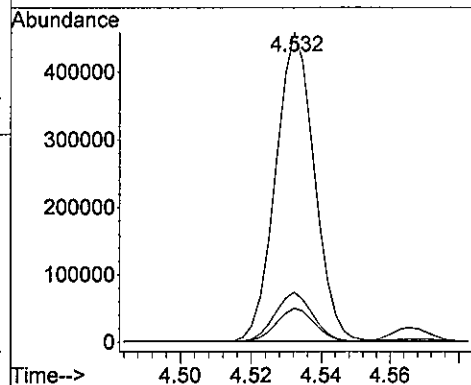
Quant Time: Jul 25 16:14:30 2016
Quant Method : C:\msdchem\1\methods\070816S.M
Quant Title : SW8270D Full Scan Analysis
QLast Update : Mon Jul 25 14:31:28 2016
Response via : Initial Calibration





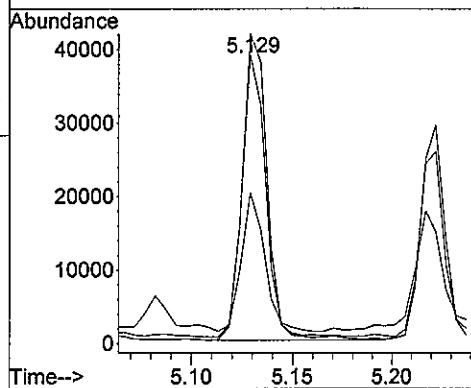
#3
Naphthalene
Concen: 2763.18 ng/ml
RT: 4.532 min Scan# 580
Delta R.T. -0.002 min
Lab File: S04506.D
Acq: 25 Jul 2016 15:47

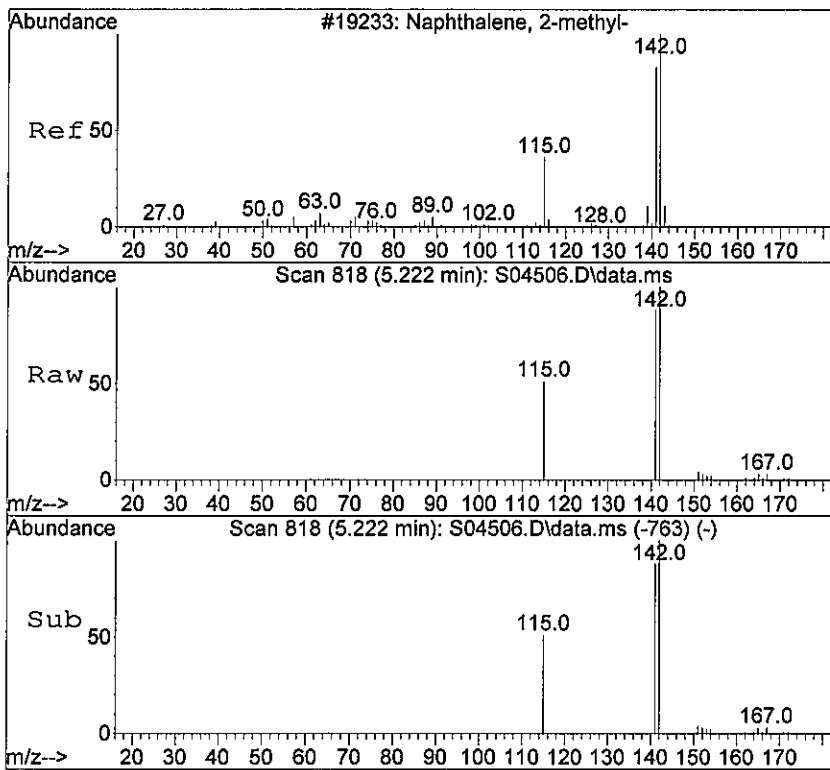
Tgt Ion:	128	Resp:	351807
Ion Ratio	Lower	Upper	
128	100		
129	10.6	8.5	12.7
127	15.8	12.2	18.2



#4
2-Methylnaphthalene
Concen: 400.47 ng/ml
RT: 5.129 min Scan# 800
Delta R.T. -0.005 min
Lab File: S04506.D
Acq: 25 Jul 2016 15:47

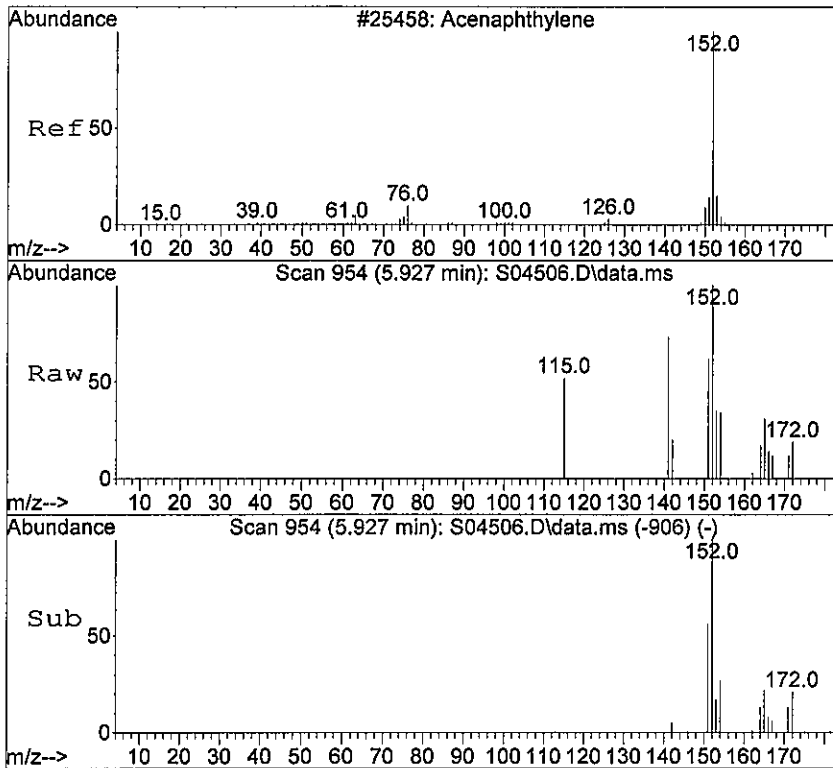
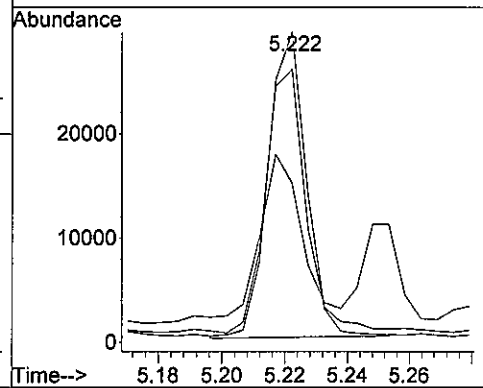
Tgt Ion:	142	Resp:	35721
Ion Ratio	Lower	Upper	
142	100		
141	92.3	69.8	104.8
115	51.7	35.3	52.9





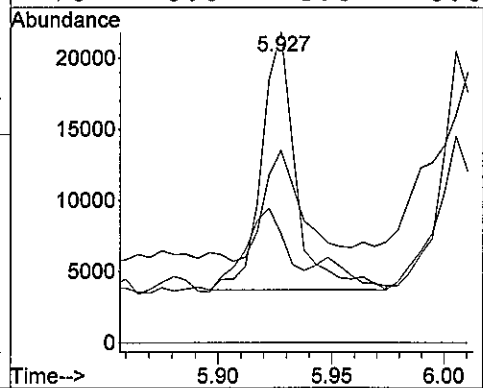
#5
1-Methylnaphthalene
Concen: 306.21 ng/ml m
RT: 5.222 min Scan# 818
Delta R.T. 0.000 min
Lab File: S04506.D
Acq: 25 Jul 2016 15:47

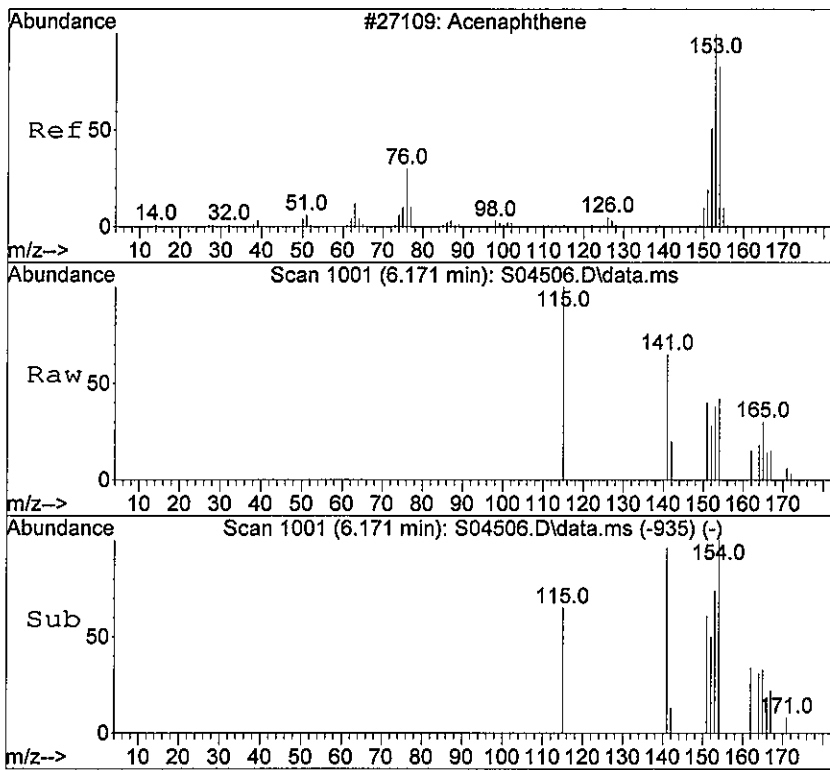
Tgt Ion	Ratio	Resp	Lower	Upper
142	100	24776		
141	133.1	73.0	109.6#	
115	66.1	37.0	55.6#	



#8
Acenaphthylene
Concen: 158.63 ng/ml
RT: 5.927 min Scan# 954
Delta R.T. 0.000 min
Lab File: S04506.D
Acq: 25 Jul 2016 15:47

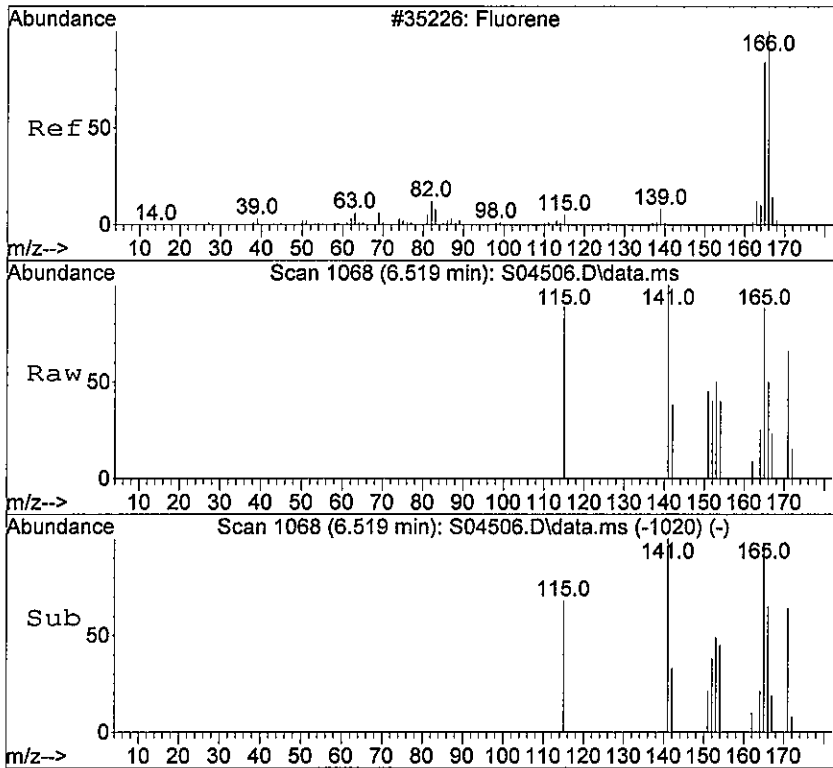
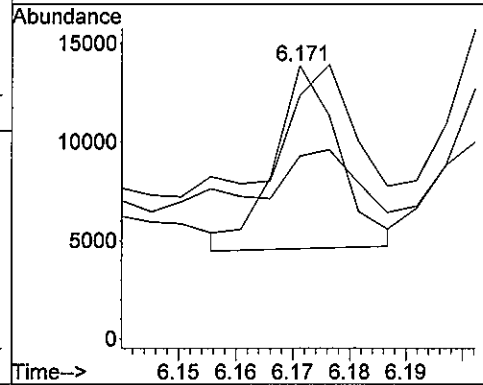
Tgt Ion	Ratio	Resp	Lower	Upper
152	100	19049		
151	53.0	17.4	26.2#	
153	53.6	10.4	15.6#	
76	0.0	0.0	0.0	





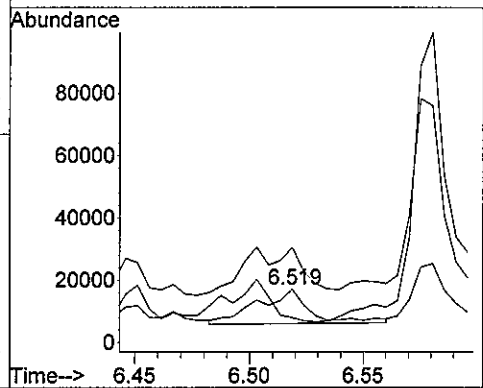
#9
Acenaphthene
Concen: 79.22 ng/ml
RT: 6.171 min Scan# 1001
Delta R.T. 0.094 min
Lab File: S04506.D
Acq: 25 Jul 2016 15:47

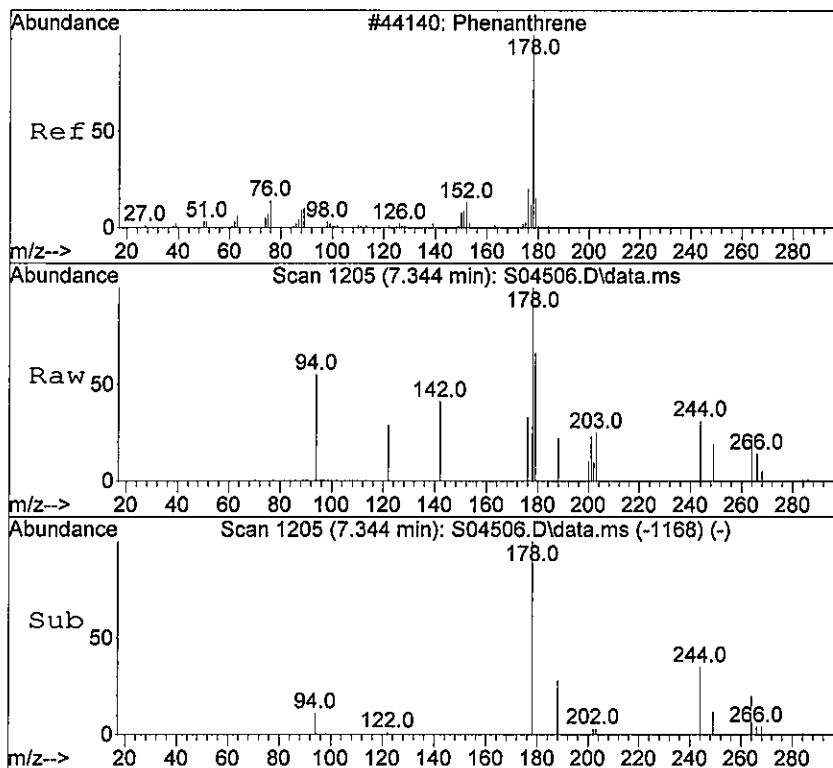
Tgt Ion: 154 Resp: 7315
Ion Ratio Lower Upper
154 100
153 90.9 88.2 132.4
152 43.4 42.7 64.1



#10
Fluorene
Concen: 162.58 ng/ml
RT: 6.519 min Scan# 1068
Delta R.T. 0.000 min
Lab File: S04506.D
Acq: 25 Jul 2016 15:47

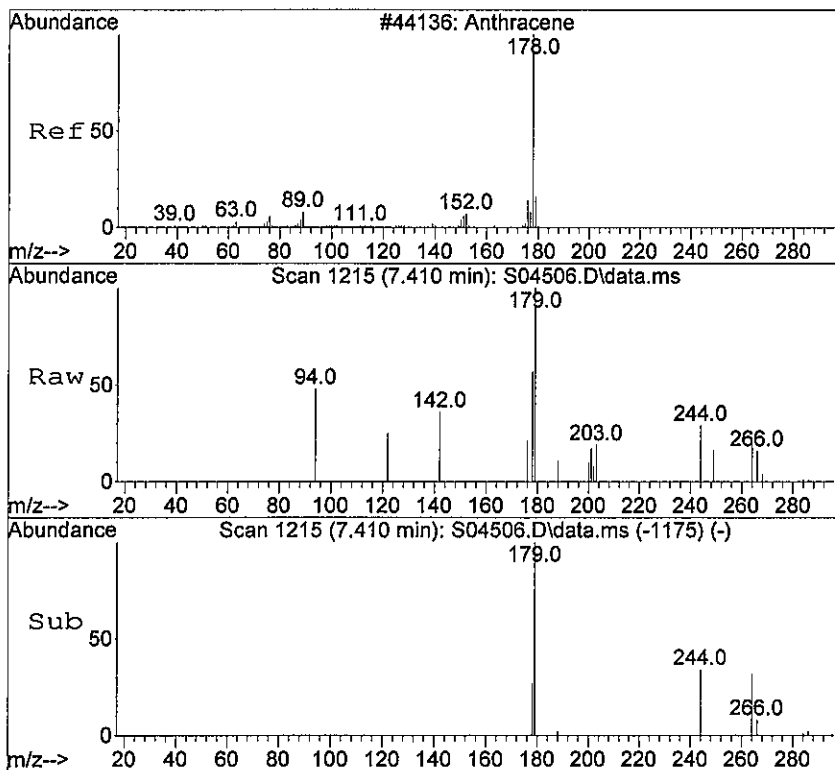
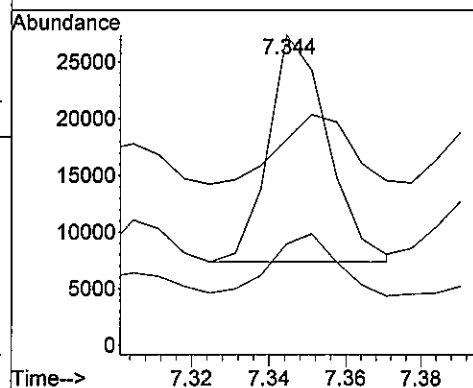
Tgt Ion: 166 Resp: 17852
Ion Ratio Lower Upper
166 100
165 156.0 76.2 114.4#
167 93.5 10.7 16.1#





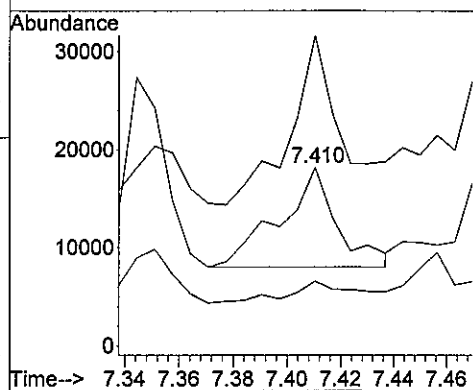
#13
Phenanthrene
Concen: 116.10 ng/ml
RT: 7.344 min Scan# 1205
Delta R.T. -0.006 min
Lab File: S04506.D
Acq: 25 Jul 2016 15:47

Tgt Ion:178 Resp: 21496
Ion Ratio Lower Upper
178 100
179 36.4 12.2 18.2#
176 31.6 15.1 22.7#

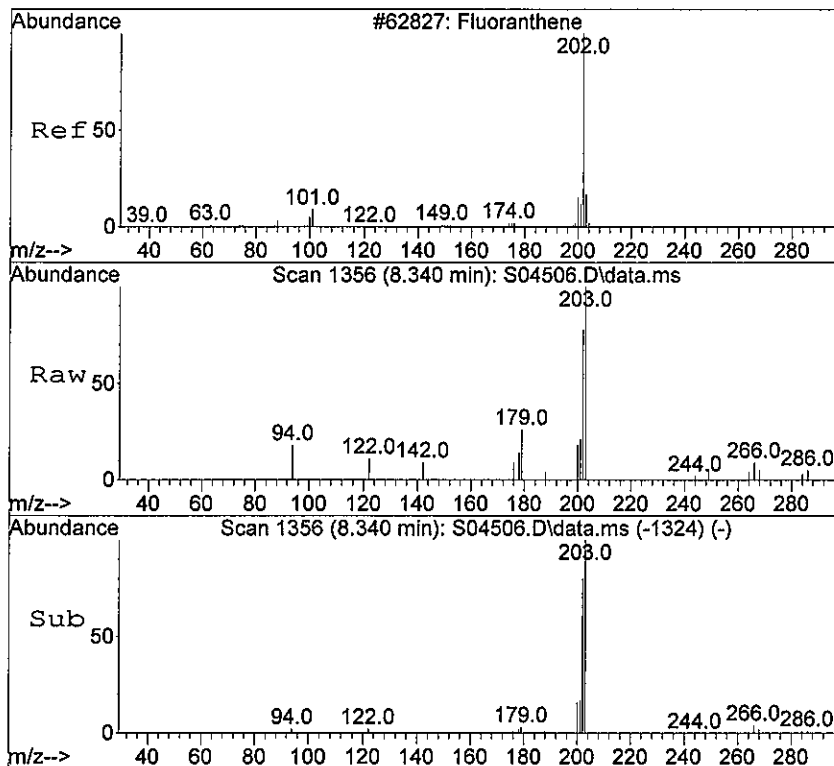


#14
Anthracene
Concen: 105.95 ng/ml
RT: 7.410 min Scan# 1215
Delta R.T. 0.013 min
Lab File: S04506.D
Acq: 25 Jul 2016 15:47

Tgt Ion:178 Resp: 15119
Ion Ratio Lower Upper
178 100
179 153.2 12.0 18.0#
176 22.1 14.9 22.3

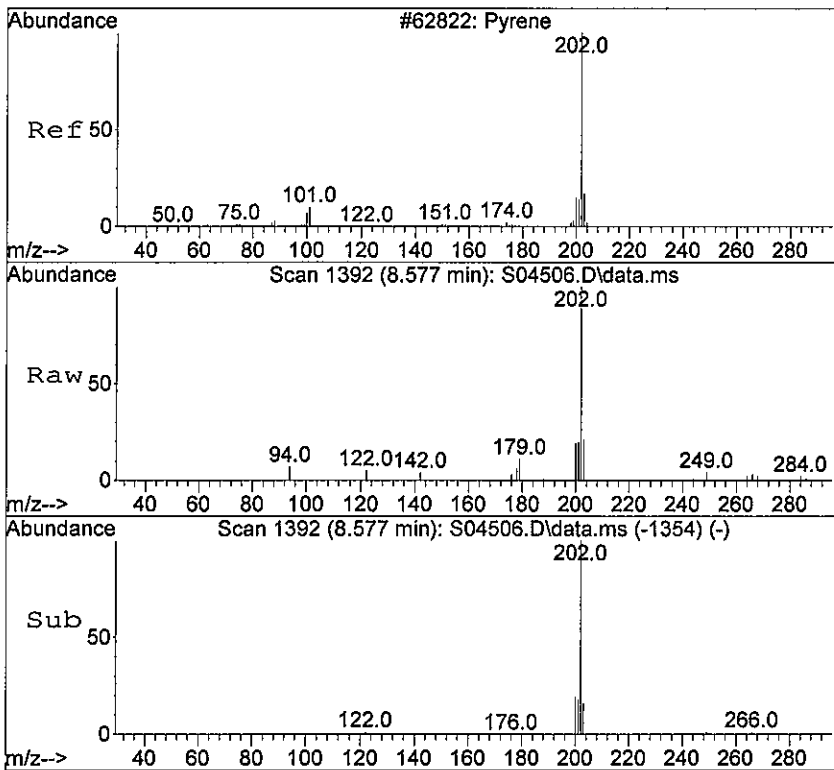
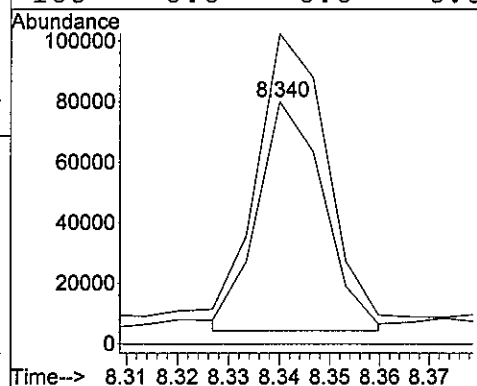


✓ VC



#15
Fluoranthene
Concen: 392.03 ng/ml m
RT: 8.340 min Scan# 1356
Delta R.T. -0.039 min
Lab File: S04506.D
Acq: 25 Jul 2016 15:47

Tgt Ion: 202	Resp: 68840
Ion Ratio	Lower Upper
202 100	
101 0.0	0.0 0.0
203 130.1	13.7 20.5#
100 0.0	0.0 0.0



#17
Pyrene
Concen: 1172.61 ng/ml
RT: 8.577 min Scan# 1392
Delta R.T. 0.000 min
Lab File: S04506.D
Acq: 25 Jul 2016 15:47

Tgt Ion: 202	Resp: 222867
Ion Ratio	Lower Upper
202 100	
200 20.8	15.9 23.9
203 18.7	14.1 21.1
101 0.0	0.0 0.0

