

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM050515\
 Data File : BM001218.D
 Acq On : 05 May 2015 21:16
 Operator : TP/IZ
 Sample : G2078-26
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 PT-PAH-SOIL

Manual Integrations
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Quant Time: May 06 13:11:37 2015

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SIMPAH-BM050515.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed May 06 12:46:35 2015

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.53	152	16705	5.00	ng	0.00
6) Naphthalene-d8	10.30	136	69711	5.00	ng	0.00
12) Acenaphthene-d10	14.19	164	42963	5.00	ng	0.00
18) Phenanthrene-d10	16.95	188	66557	5.00	ng	0.00
24) Chrysene-d12	21.14	240	84757	5.00	ng	0.00
30) Perylene-d12	23.29	264	70920	5.00	ng	0.00

System Monitoring Compounds

4) 2-Fluorophenol	5.11	112	29757	8.52	ng	0.00
5) Phenol-d6	6.71	99	44579	10.04	ng	-0.02
7) Nitrobenzene-d5	8.68	82	27001	6.84	ng	0.00
13) 2,4,6-Tribromophenol	15.69	330	27163	8.82	ng	0.00
14) 2-Fluorobiphenyl	12.80	172	91604	6.97	ng	-0.01
26) Terphenyl-d14	19.59	244	84109	6.93	ng	0.00

Target Compounds

						Qvalue
9) Naphthalene	10.35	128	83455	5.50	ng	99
11) 2-Methylnaphthalene	11.98	142	68888	6.46	ng	96
15) Acenaphthylene	13.90	152	54969	2.97	ng	100
16) Acenaphthene	14.25	154	54240	4.66	ng	98
17) Fluorene	15.23	166	73089	3.86	ng	98
21) Phenanthrene	16.98	178	276889	8.53	ng	99
22) Anthracene	17.07	178	366220	13.22	ng	99
23) Fluoranthene	19.01	202	197370	7.52	ng	100
25) Pyrene	19.37	202	149052	5.50	ng	99
27) Benzo(a)anthracene	21.12	228	159296	6.59	ng	96
28) Chrysene	21.17	228	128262	5.50	ng	96
29) Indeno(1,2,3-cd)pyrene	25.41	276	27267	1.47	ng	97
31) Benzo(b)fluoranthene	22.64	252	132737m	5.85	ng	
32) Benzo(k)fluoranthene	22.68	252	20260m	0.97	ng	
33) Benzo(a)pyrene	23.18	252	17007	0.91	ng	98
34) Dibenzo(a,h)anthracene	25.43	278	13258	0.87	ng	# 94
35) Benzo(g,h,i)perylene	26.07	276	56142	3.55	ng	98

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

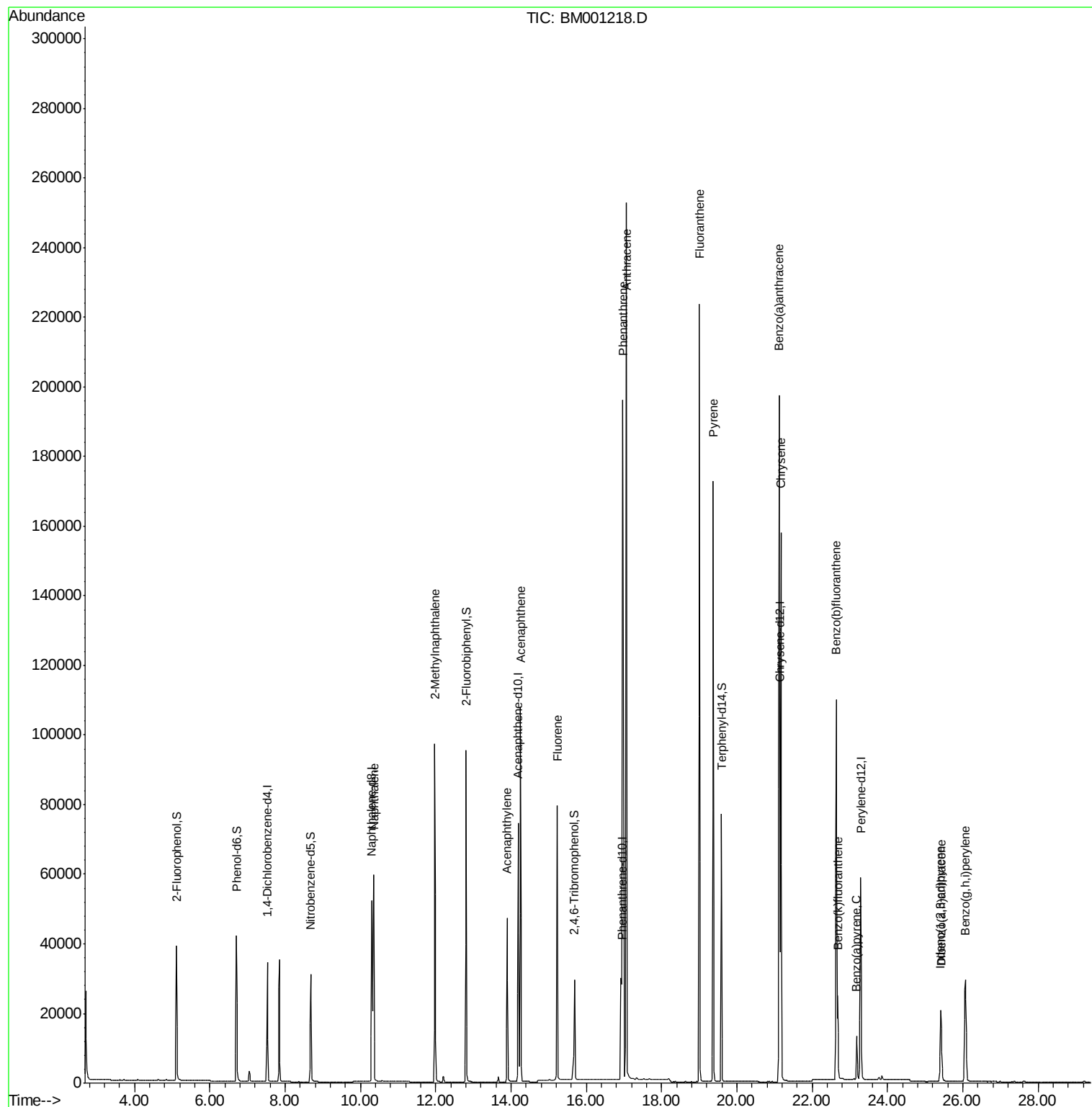
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM050515\
Data File : BM001218.D
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Sample : G2078-26
Misc :
ALS Vial : 13 Sample Multiplier: 1

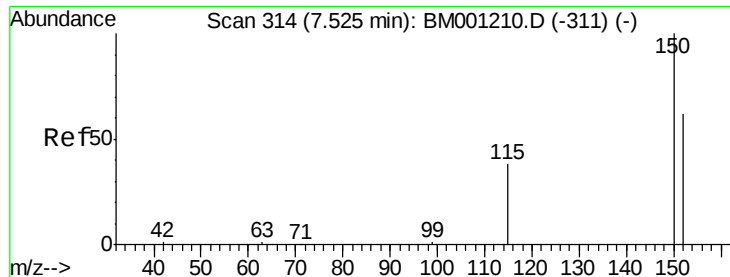
Instrument :
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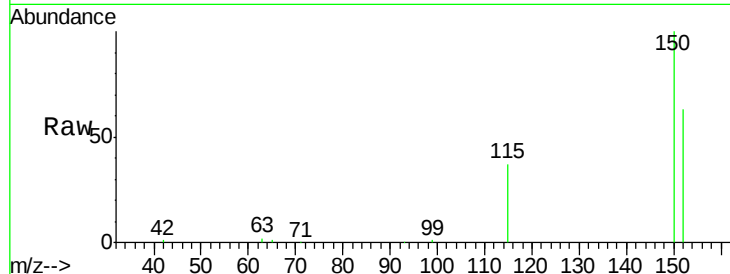




#1

1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.53 min Scan# 314
Delta R.T. 0.00 min
Lab File: BM001218.D
Acq: 05 May 2015 21:16

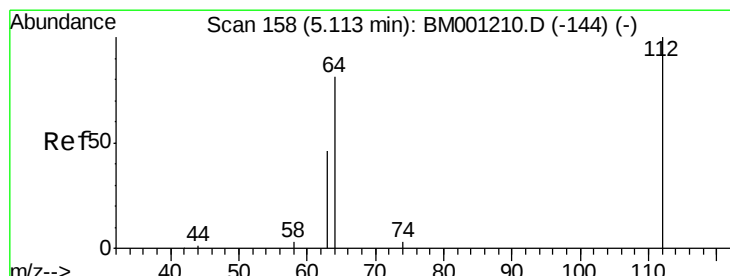
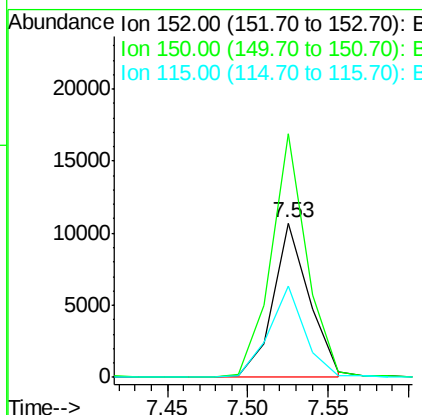
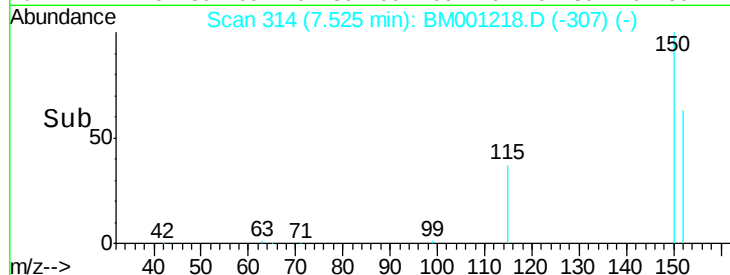
Instrument :
BNA_M
ClientSampleId :
PT-PAH-SOIL



Tgt Ion	Ratio	Lower	Upper
152	100		
150	157.9	122.0	183.0
115	59.0	46.3	69.5

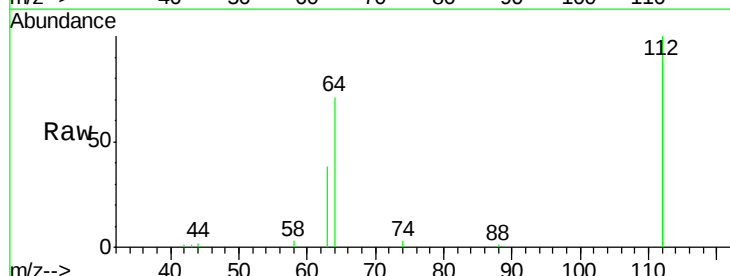
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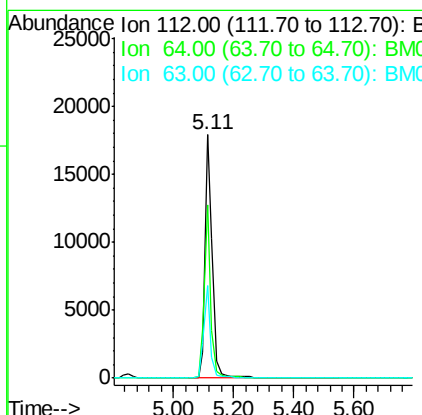
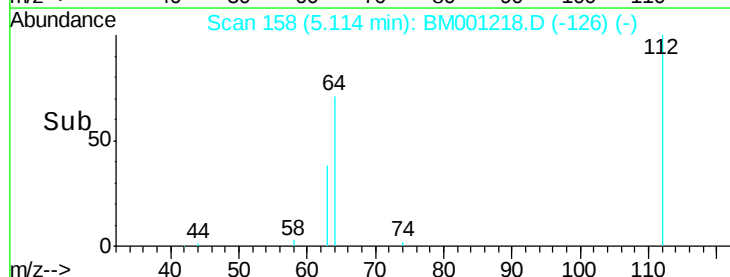


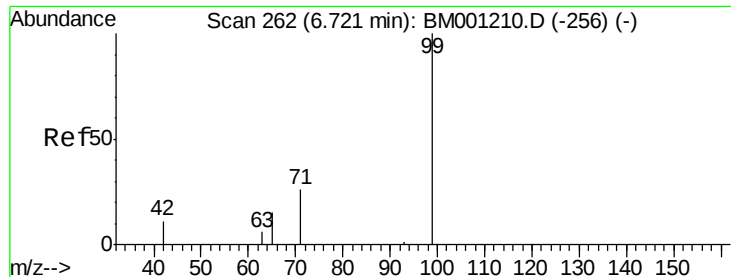
#4

2-Fluorophenol
Concen: 8.52 ng
RT: 5.11 min Scan# 158
Delta R.T. 0.00 min
Lab File: BM001218.D
Acq: 05 May 2015 21:16



Tgt Ion	Ratio	Lower	Upper
112	100		
64	64.3	51.0	76.4
63	35.5	28.8	43.2





#5

Phenol-d6

Concen: 10.04 ng

RT: 6.71 min Scan# 261

Delta R.T. -0.02 min

Lab File: BM001218.D

Acq: 05 May 2015 21:16

Instrument :

BNA_M

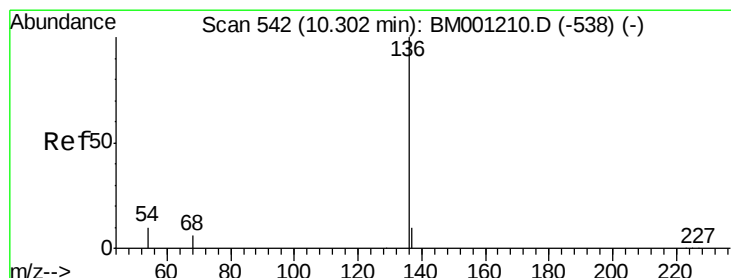
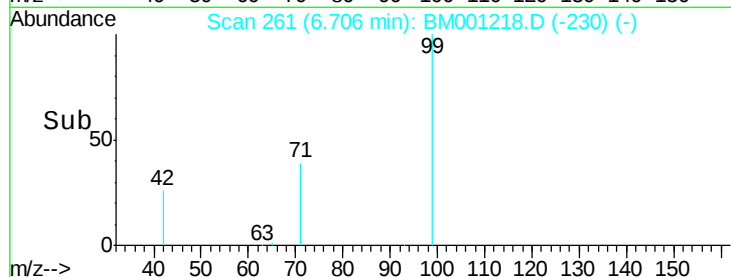
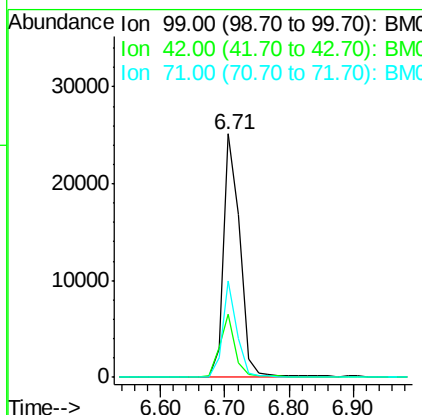
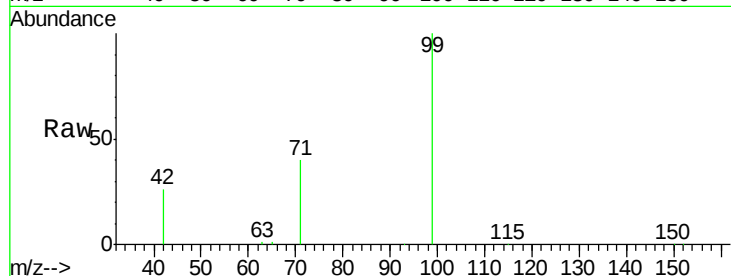
ClientSampleId :

PT-PAH-SOIL

Tgt Ion:	99	Resp:	44579
Ion Ratio	Lower	Upper	
99	100		
42	23.6	19.9	29.9
71	35.0	27.8	41.6

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#6

Naphthalene-d8

Concen: 5.00 ng

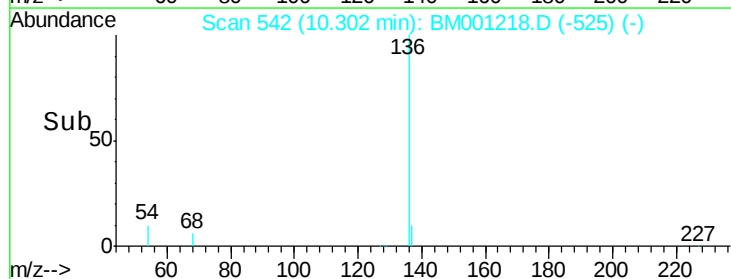
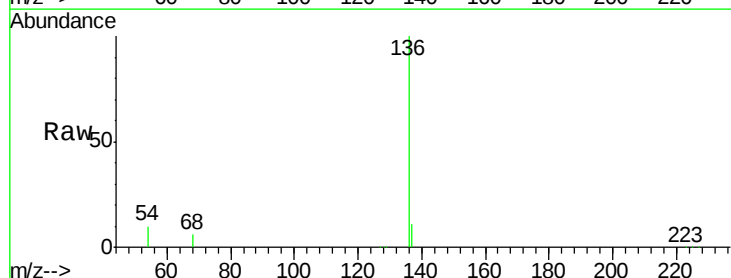
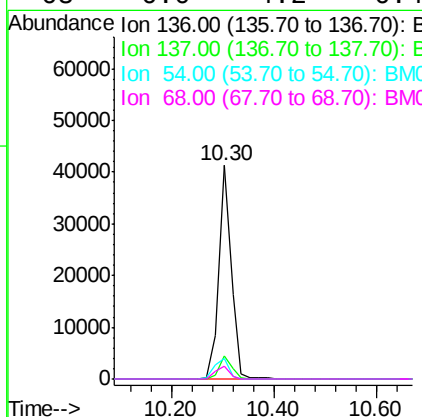
RT: 10.30 min Scan# 542

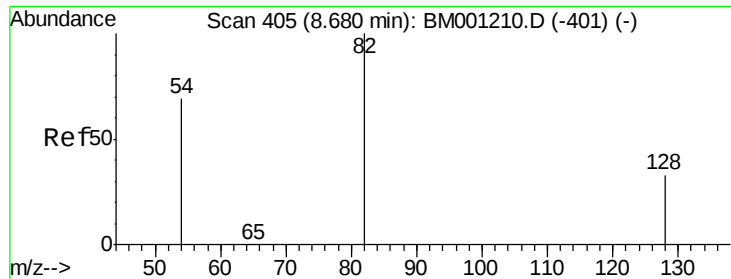
Delta R.T. 0.00 min

Lab File: BM001218.D

Acq: 05 May 2015 21:16

Tgt Ion:	136	Resp:	69711
Ion Ratio	Lower	Upper	
136	100		
137	10.5	8.4	12.6
54	9.8	8.3	12.5
68	6.0	4.2	6.4





#7

Nitrobenzene-d5

Concen: 6.84 ng

RT: 8.68 min Scan# 405

Delta R.T. 0.00 min

Lab File: BM001218.D

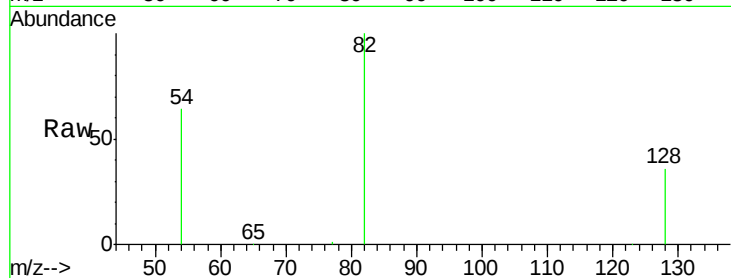
Acq: 05 May 2015 21:16

Instrument :

BNA_M

ClientSampleId :

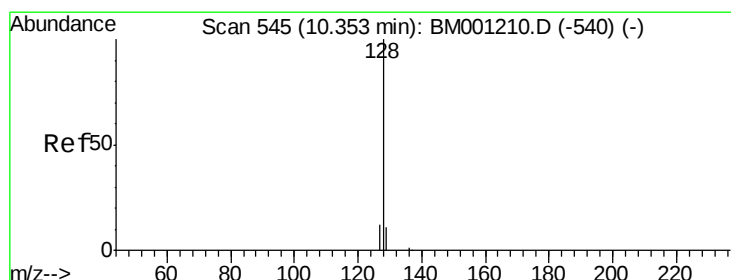
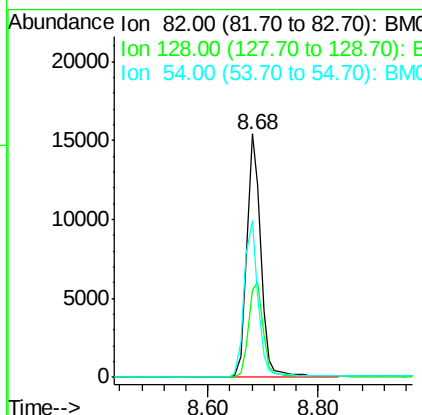
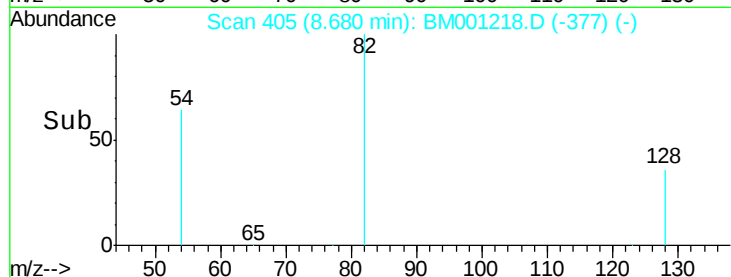
PT-PAH-SOIL



Tgt Ion:	82	Resp:	27001
Ion Ratio	Lower	Upper	
82	100		
128	36.1	27.8	41.6
54	64.3	56.0	84.0

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#9

Naphthalene

Concen: 5.50 ng

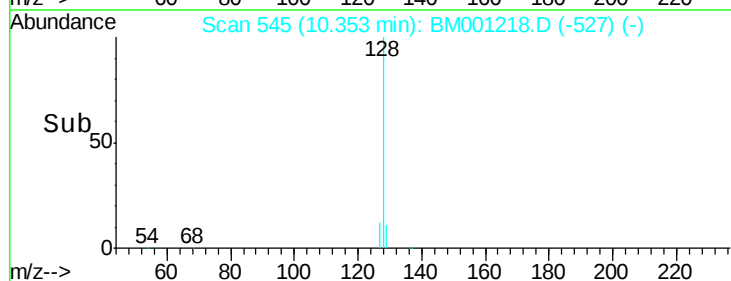
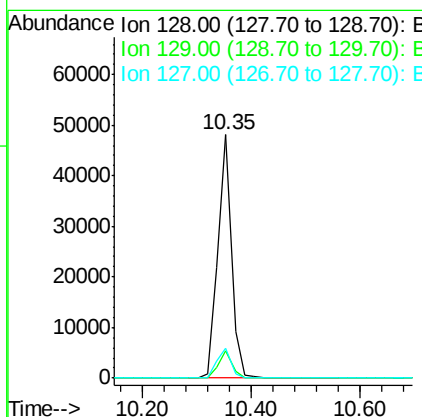
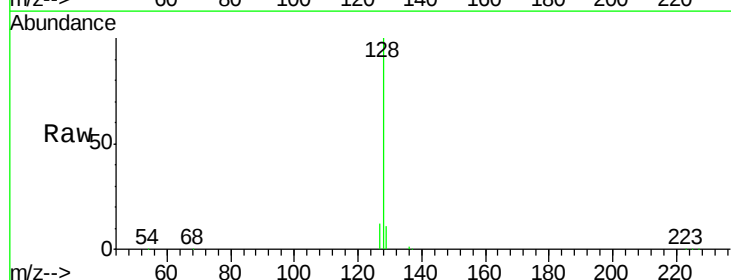
RT: 10.35 min Scan# 545

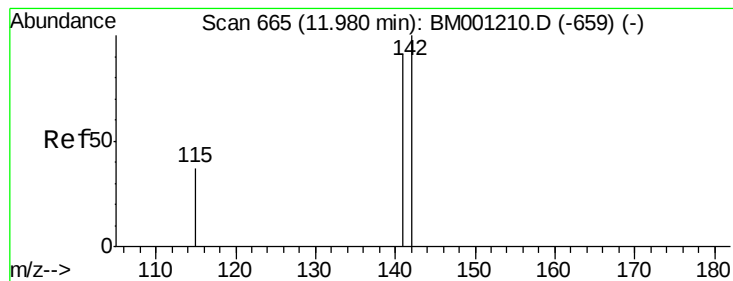
Delta R.T. 0.00 min

Lab File: BM001218.D

Acq: 05 May 2015 21:16

Tgt Ion:	128	Resp:	83455
Ion Ratio	Lower	Upper	
128	100		
129	11.2	9.2	13.8
127	12.0	10.2	15.4





#11

2-Methylnaphthalene

Concen: 6.46 ng

RT: 11.98 min Scan# 665

Delta R.T. 0.00 min

Lab File: BM001218.D

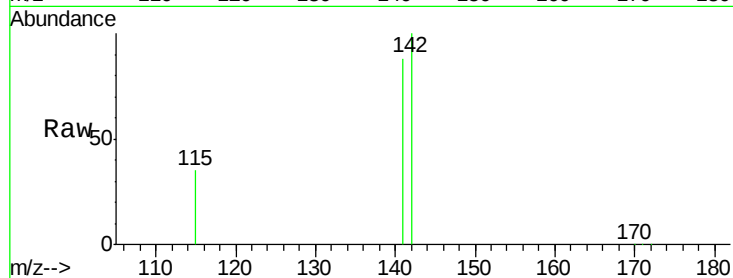
Acq: 05 May 2015 21:16

Instrument :

BNA_M

ClientSampleId :

PT-PAH-SOIL



Tgt Ion:142 Resp: 68888

Ion Ratio Lower Upper

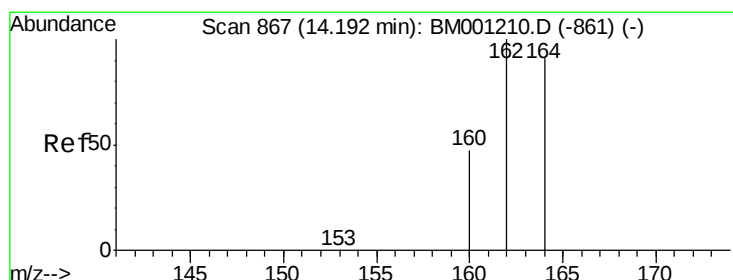
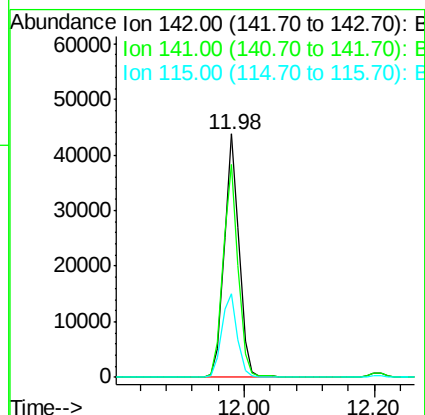
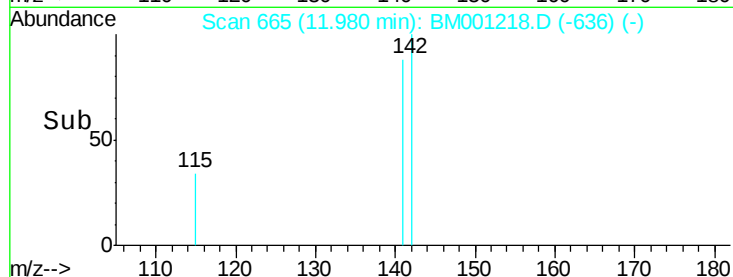
142 100

141 87.6 72.5 108.7

115 34.5 30.3 45.5

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#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.19 min Scan# 867

Delta R.T. 0.00 min

Lab File: BM001218.D

Acq: 05 May 2015 21:16

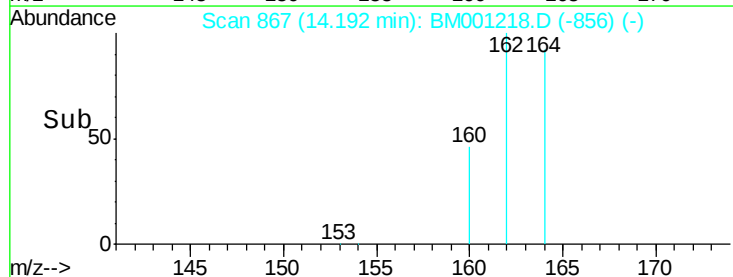
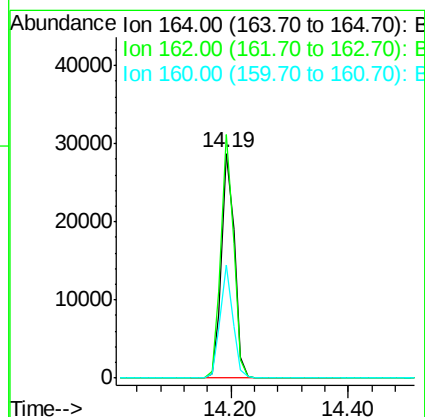
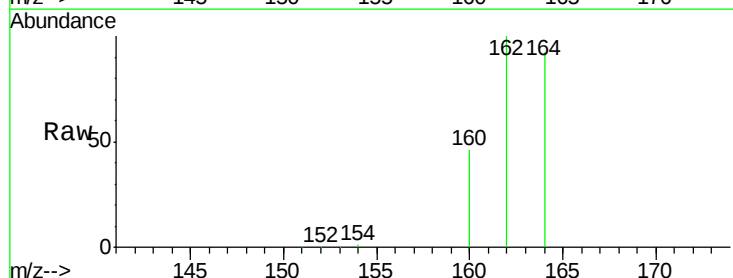
Tgt Ion:164 Resp: 42963

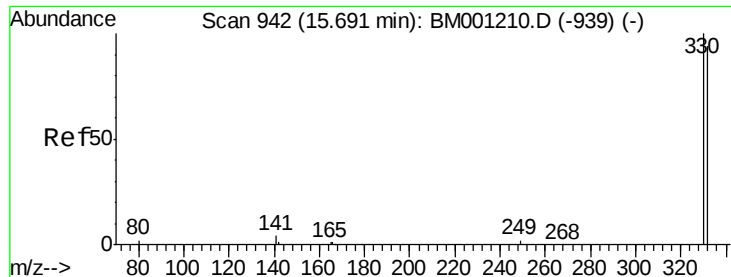
Ion Ratio Lower Upper

164 100

162 108.4 82.7 124.1

160 50.1 35.8 53.8





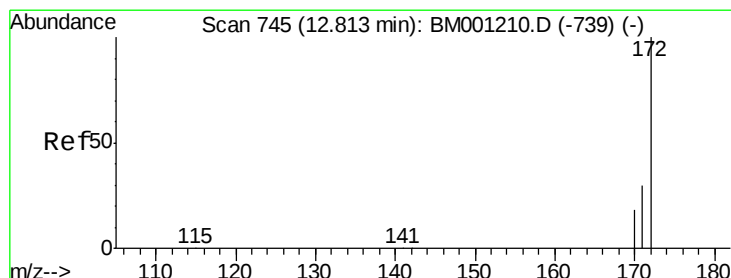
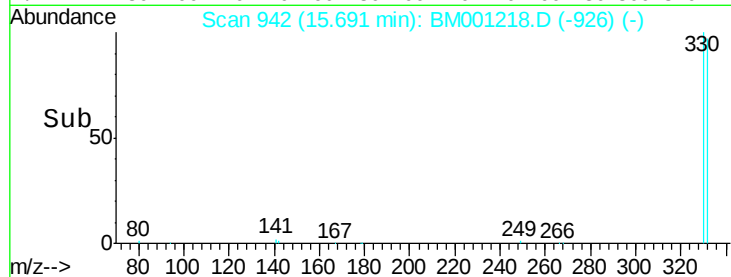
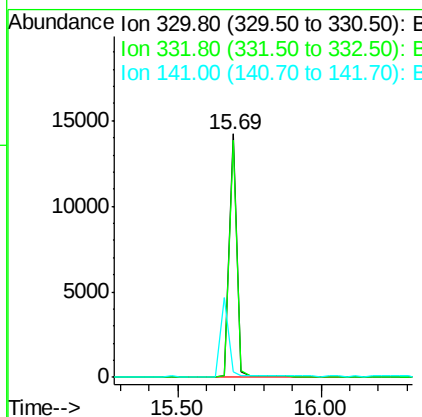
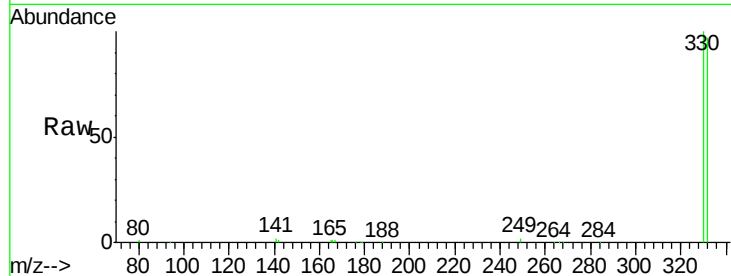
#13
 2,4,6-Tribromophenol
 Concen: 8.82 ng
 RT: 15.69 min Scan# 942
 Delta R.T. 0.00 min
 Lab File: BM001218.D
 Acq: 05 May 2015 21:16

Instrument :
 BNA_M
 ClientSampleId :
 PT-PAH-SOIL

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	27163		
332	97.4	75.4	113.2	
141	0.0	0.0	0.0	

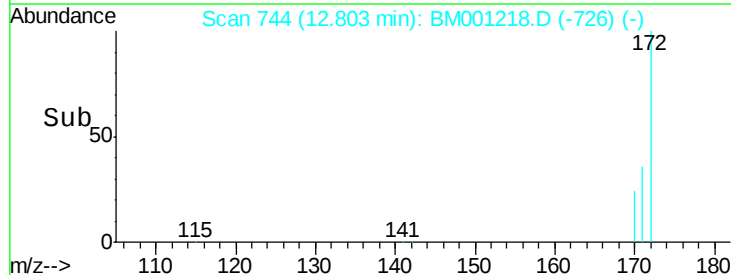
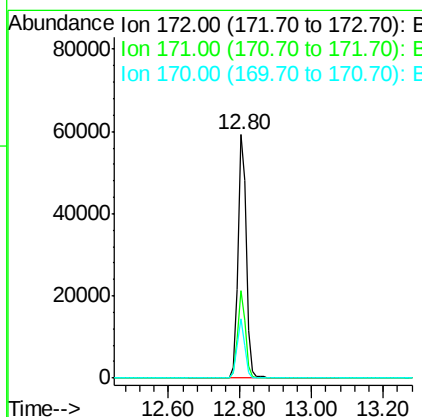
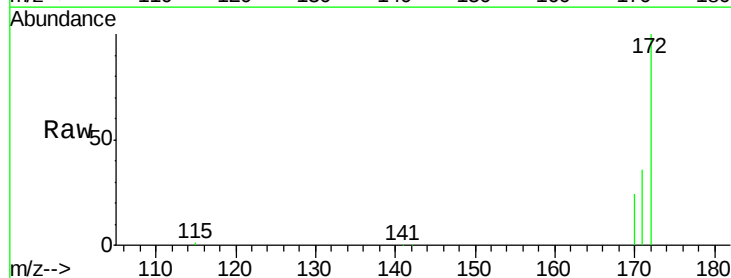
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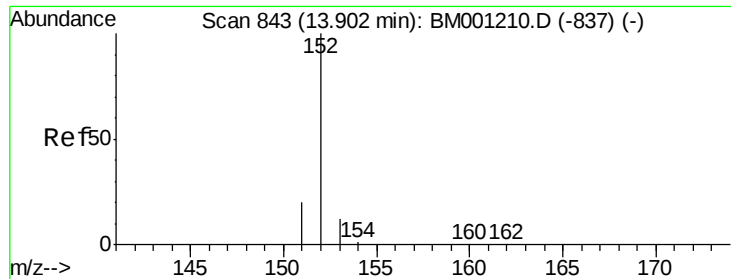
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#14
 2-Fluorobiphenyl
 Concen: 6.97 ng
 RT: 12.80 min Scan# 744
 Delta R.T. -0.01 min
 Lab File: BM001218.D
 Acq: 05 May 2015 21:16

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	91604		
171	36.0	24.6	37.0	
170	24.4	14.5	21.7	





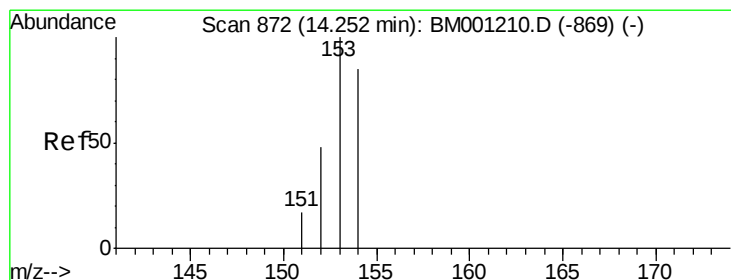
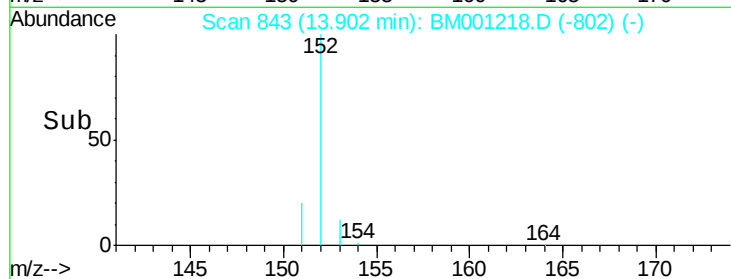
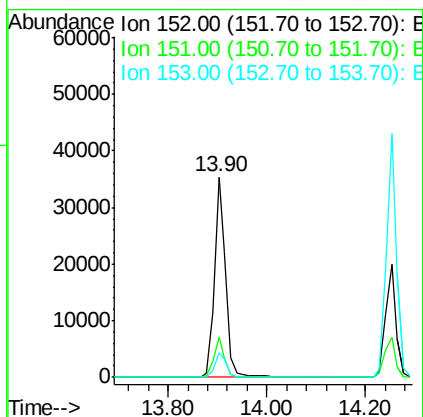
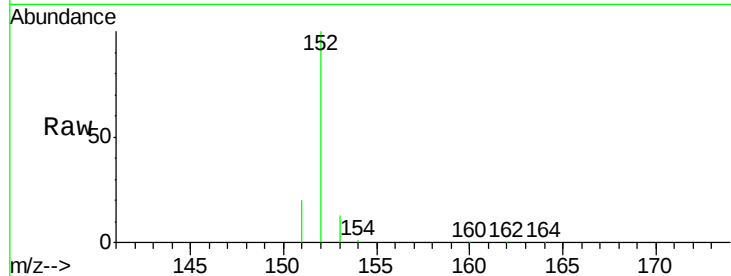
#15
Acenaphthylene
Concen: 2.97 ng
RT: 13.90 min Scan# 843
Delta R.T. 0.00 min
Lab File: BM001218.D
Acq: 05 May 2015 21:16

Instrument :
BNA_M
ClientSampleId :
PT-PAH-SOIL

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.0	15.0	22.6
153	13.0	10.3	15.5

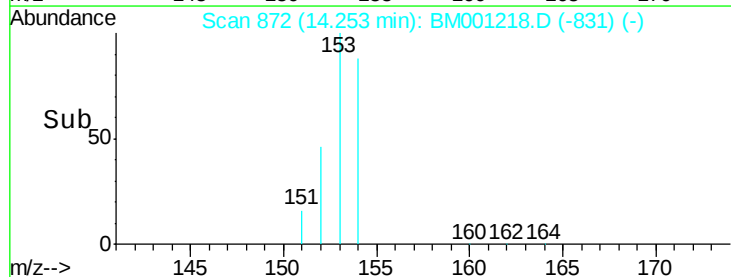
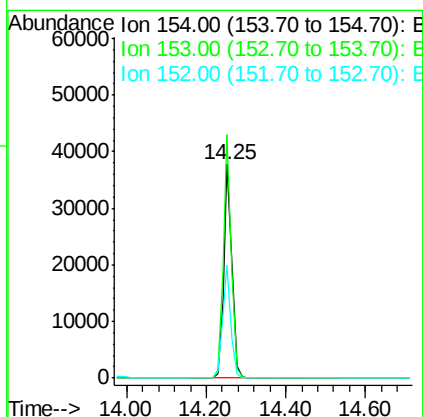
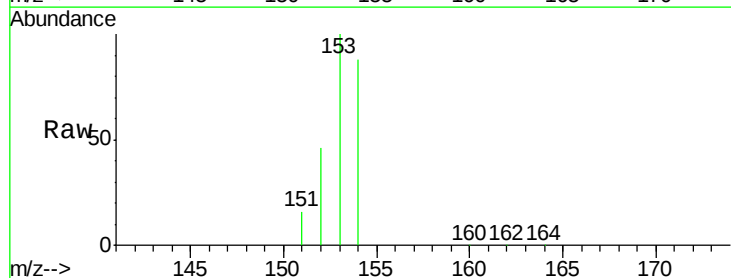
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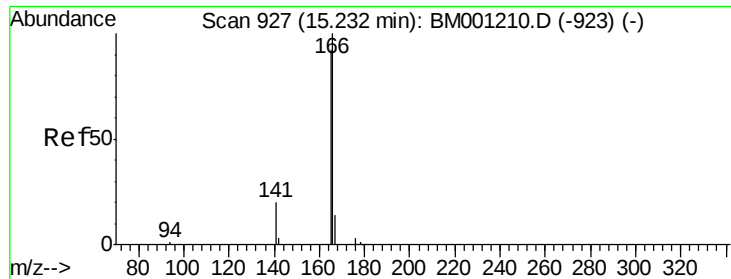
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#16
Acenaphthene
Concen: 4.66 ng
RT: 14.25 min Scan# 872
Delta R.T. 0.00 min
Lab File: BM001218.D
Acq: 05 May 2015 21:16

Tgt Ion	Ratio	Lower	Upper
154	100		
153	111.9	91.0	136.6
152	53.2	43.4	65.0





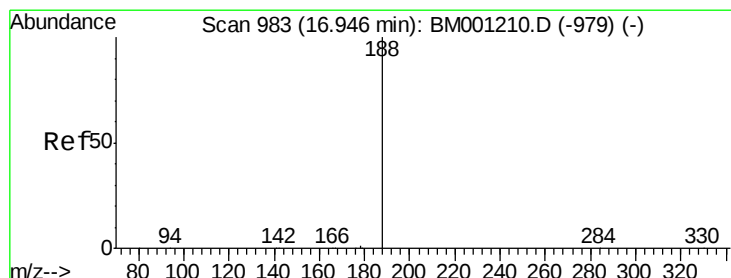
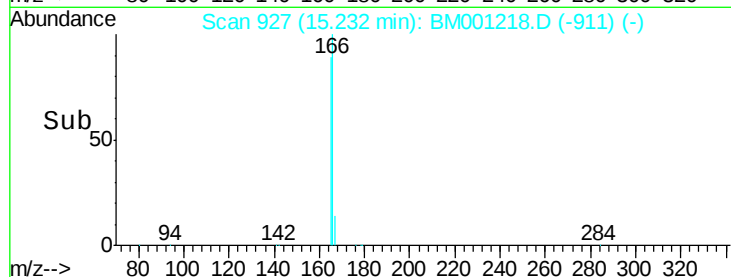
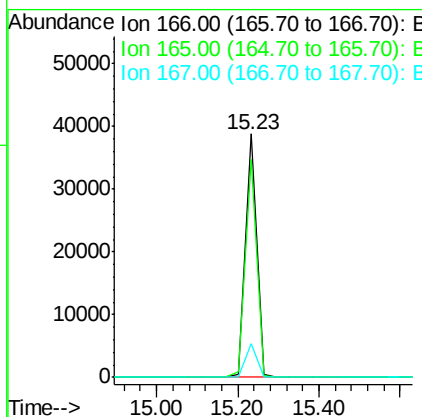
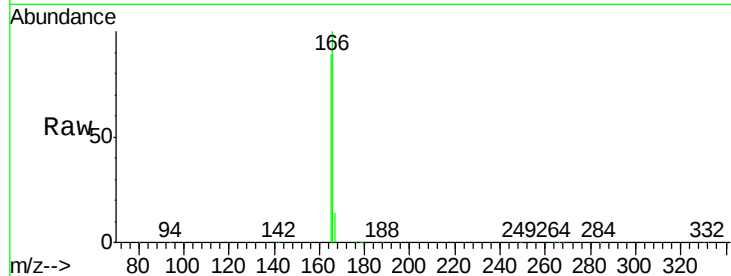
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Fluorene
 Concen: 3.86 ng
 RT: 15.23 min Scan# 927
 Delta R.T. 0.00 min
 Lab File: BM001218.D
 Acq: 05 May 2015 21:16

Instrument :
 BNA_M
 ClientSampled :
 PT-PAH-SOIL

Tgt Ion	Ratio	Lower	Upper
166	100		
165	90.2	74.2	111.2
167	13.5	10.8	16.2

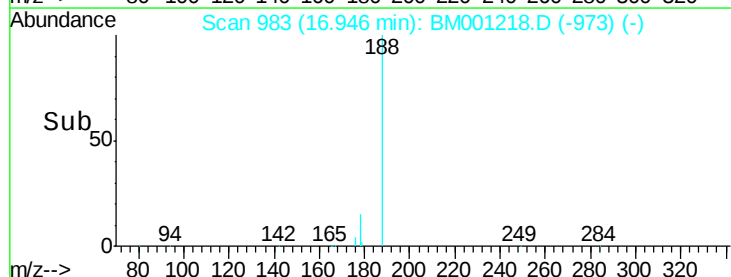
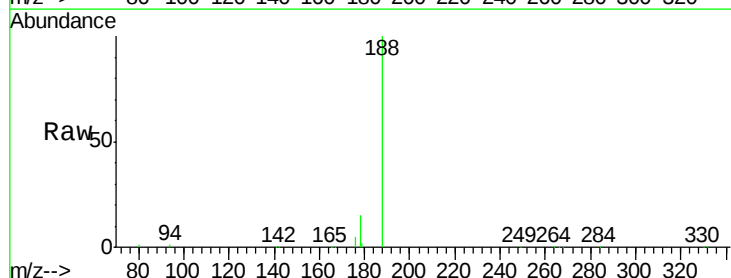
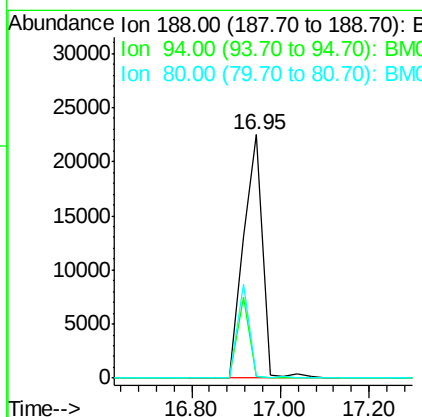
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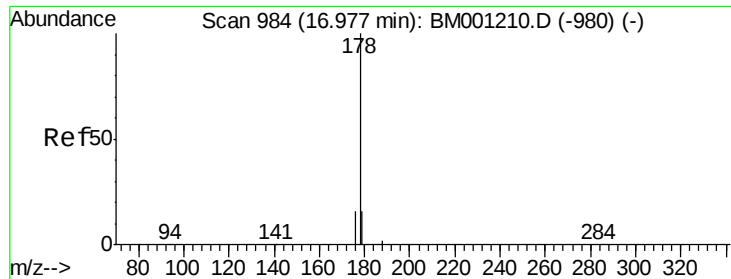
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#18
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 16.95 min Scan# 983
 Delta R.T. 0.00 min
 Lab File: BM001218.D
 Acq: 05 May 2015 21:16

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.7	8.2	12.2#
80	0.7	8.9	13.3#





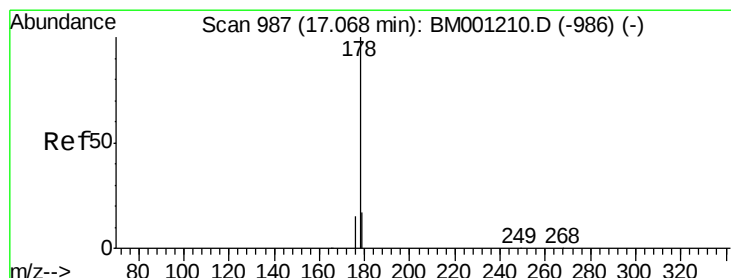
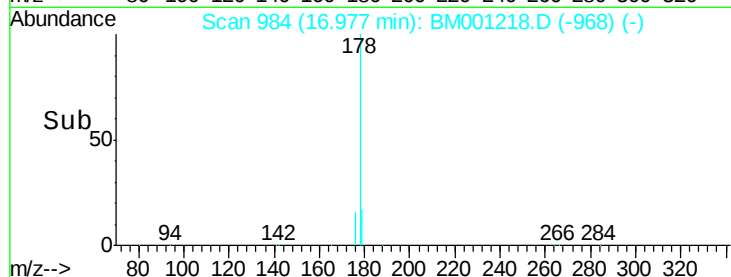
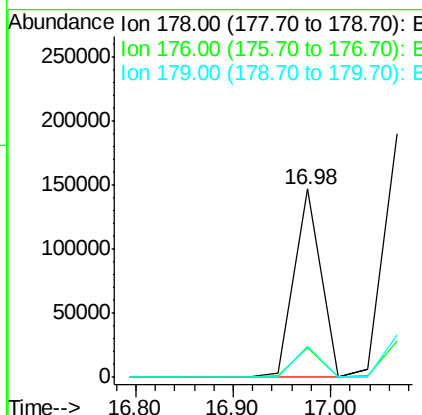
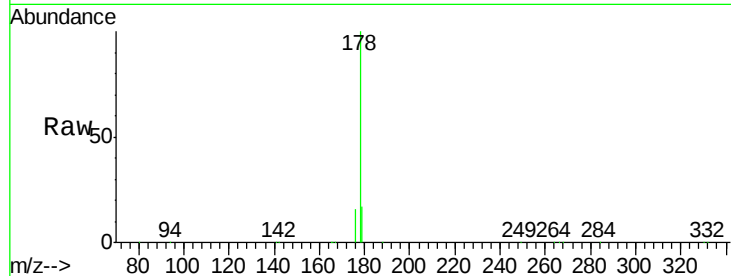
#21
Phenanthrene
Concen: 8.53 ng
RT: 16.98 min Scan# 984
Delta R.T. 0.00 min
Lab File: BM001218.D
Acq: 05 May 2015 21:16

Instrument :
BNA_M
ClientSampleId :
PT-PAH-SOIL

Tgt Ion	Ratio	Lower	Upper
178	100		
176	16.5	13.8	20.6
179	16.4	13.1	19.7

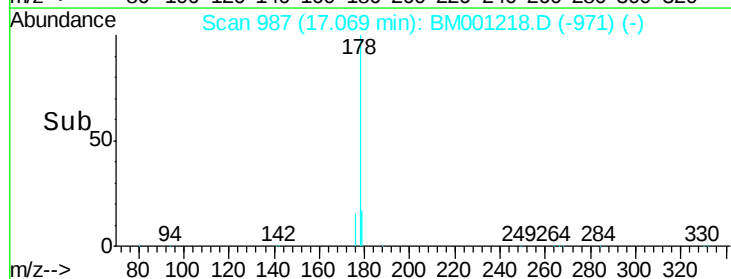
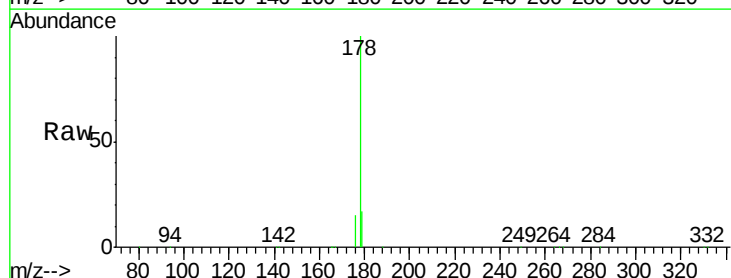
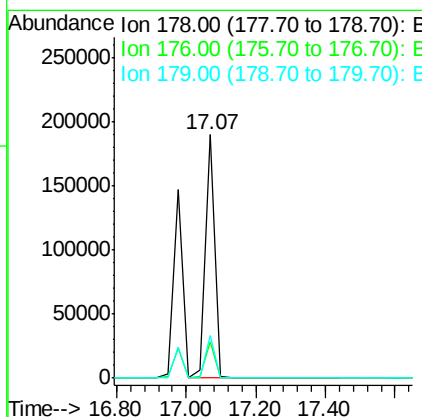
Manual Integrations
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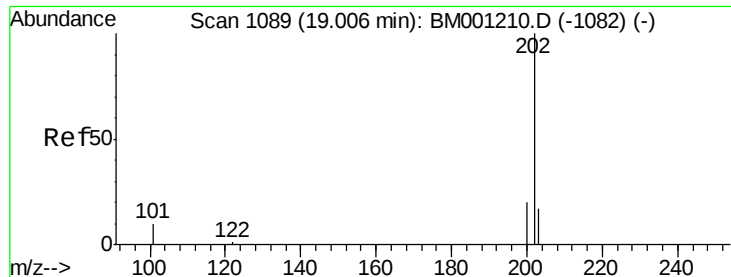
apatel
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#22
Anthracene
Concen: 13.22 ng
RT: 17.07 min Scan# 987
Delta R.T. 0.00 min
Lab File: BM001218.D
Acq: 05 May 2015 21:16

Tgt Ion	Ratio	Lower	Upper
178	100		
176	15.6	12.6	18.8
179	17.0	13.4	20.0





#23

Fluoranthene

Concen: 7.52 ng

RT: 19.01 min Scan# 1089

Delta R.T. 0.00 min

Lab File: BM001218.D

Acq: 05 May 2015 21:16

Instrument :

BNA_M

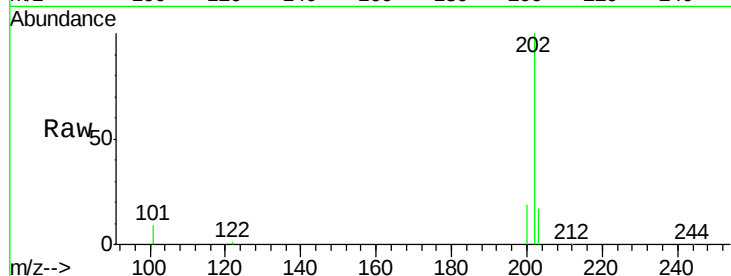
ClientSampleId :

PT-PAH-SOIL

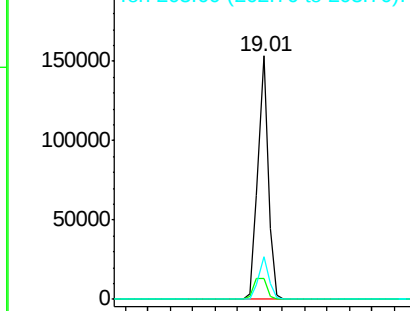
Tgt	Ion	202	Resp:	197370
Ion	Ratio	Lower	Upper	
202	100			
101	11.3	9.0	13.6	
203	17.2	13.6	20.4	

Manual Integrations
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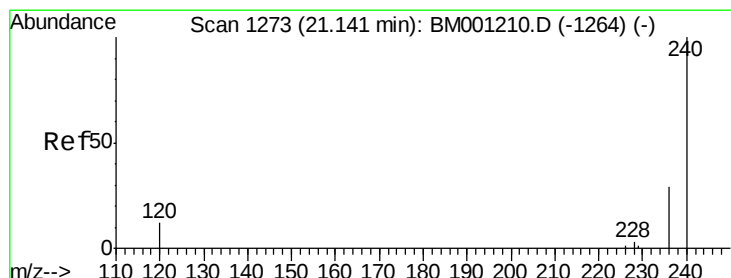
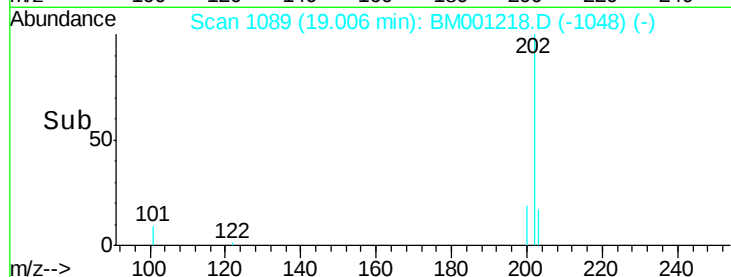
apatel
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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



Time-->



#24

Chrysene-d12

Concen: 5.00 ng

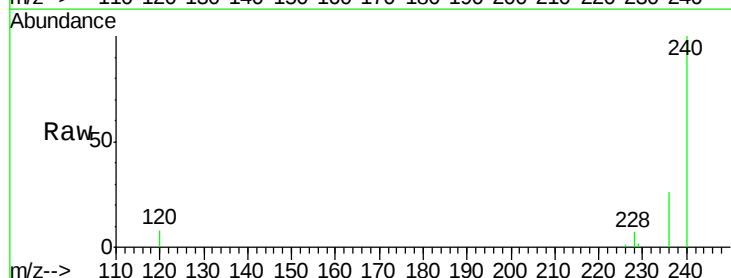
RT: 21.14 min Scan# 1273

Delta R.T. 0.00 min

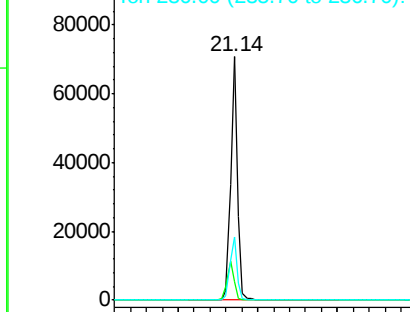
Lab File: BM001218.D

Acq: 05 May 2015 21:16

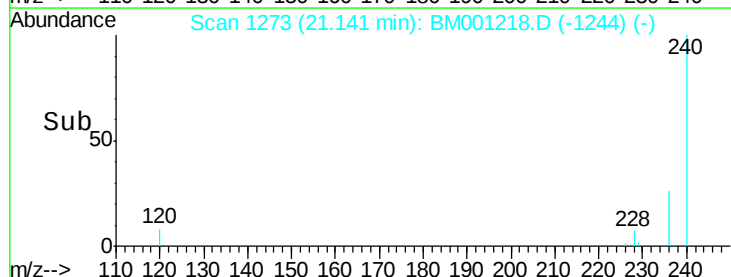
Tgt	Ion	240	Resp:	84757
Ion	Ratio	Lower	Upper	
240	100			
120	7.7	9.6	14.4#	
236	26.0	22.9	34.3	

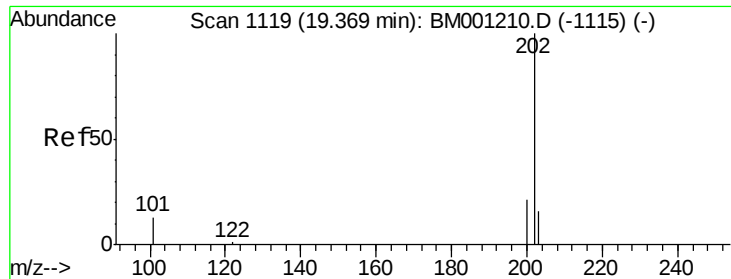


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E



Time-->





#25

Pyrene

Concen: 5.50 ng

RT: 19.37 min Scan# 1119

Delta R.T. 0.00 min

Lab File: BM001218.D

Acq: 05 May 2015 21:16

Instrument :

BNA_M

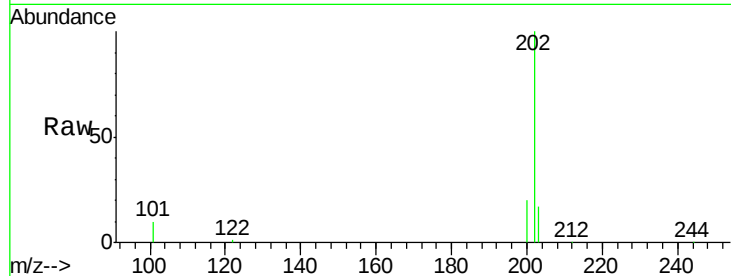
ClientSampleId :

PT-PAH-SOIL

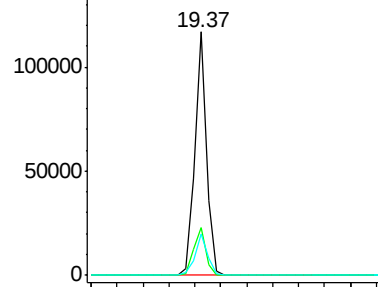
Tgt Ion:	202	Resp:	149052
Ion Ratio	Lower	Upper	
202	100		
200	20.5	16.3	24.5
203	17.9	13.8	20.8

Manual Integrations
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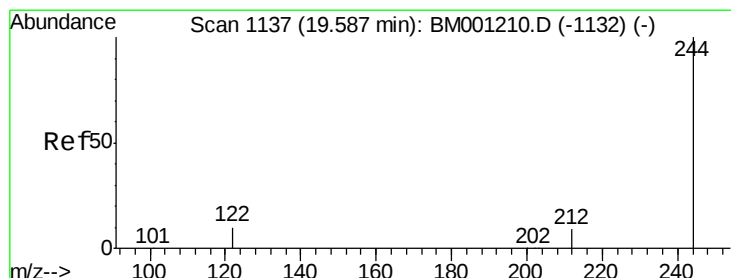
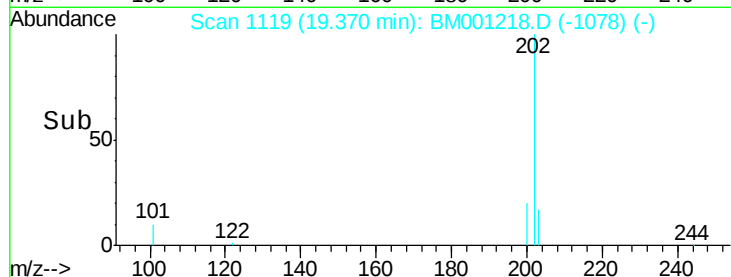
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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



Time--> 19.20 19.40 19.60



#26

Terphenyl-d14

Concen: 6.93 ng

RT: 19.59 min Scan# 1137

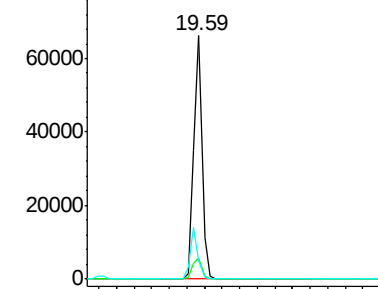
Delta R.T. 0.00 min

Lab File: BM001218.D

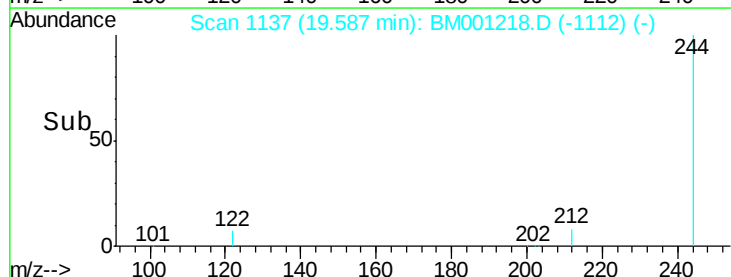
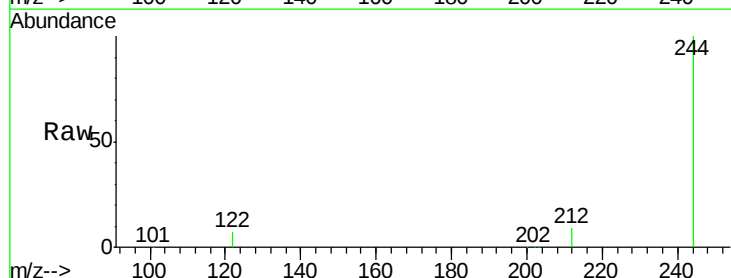
Acq: 05 May 2015 21:16

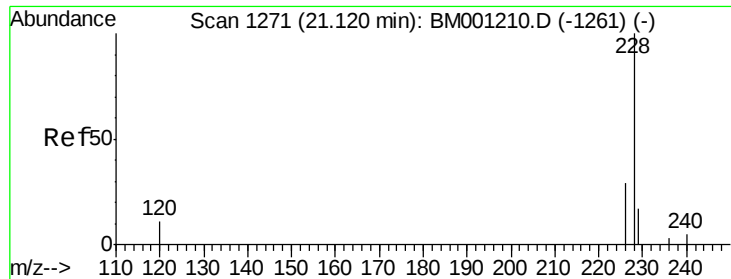
Tgt Ion:	244	Resp:	84109
Ion Ratio	Lower	Upper	
244	100		
212	8.5	7.4	11.0
122	7.3	8.2	12.4#

Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



Time--> 19.40 19.60 19.80





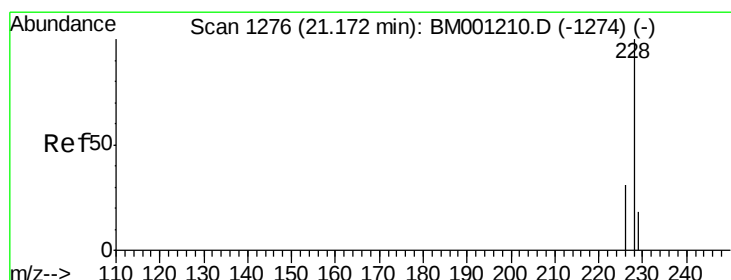
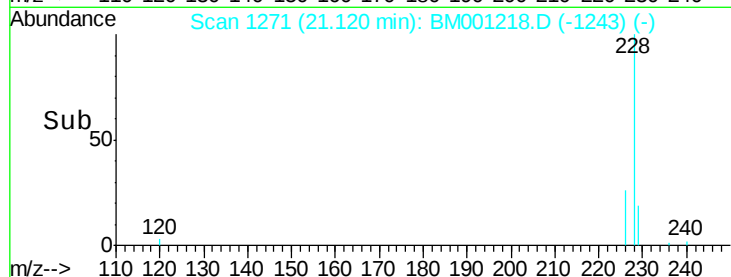
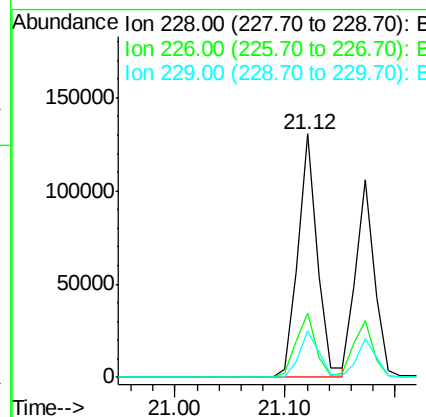
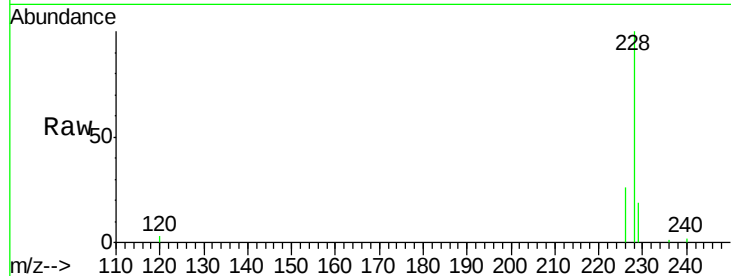
#27
Benzo(a)anthracene
Concen: 6.59 ng
RT: 21.12 min Scan# 1271
Delta R.T. 0.00 min
Lab File: BM001218.D
Acq: 05 May 2015 21:16

Instrument :
BNA_M
ClientSampleId :
PT-PAH-SOIL

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	159296		
226	26.3	23.0	34.6	
229	19.1	14.1	21.1	

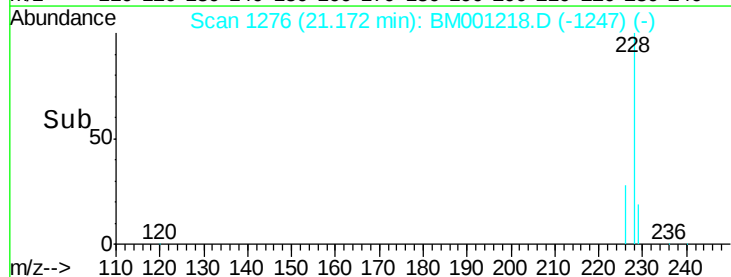
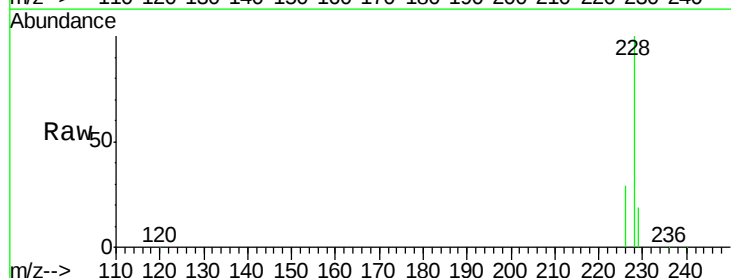
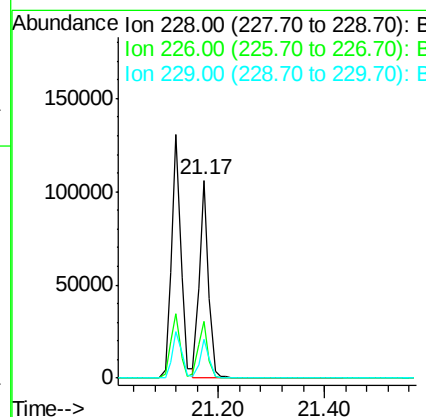
Manual Integrations
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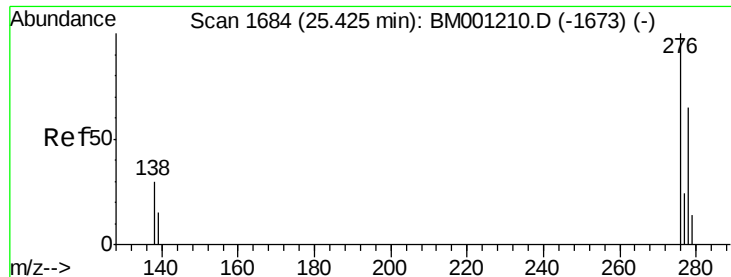
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#28
Chrysene
Concen: 5.50 ng
RT: 21.17 min Scan# 1276
Delta R.T. 0.00 min
Lab File: BM001218.D
Acq: 05 May 2015 21:16

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	128262		
226	28.6	24.9	37.3	
229	19.5	14.4	21.6	





#29

Indeno(1,2,3-cd)pyrene

Concen: 1.47 ng

RT: 25.41 min Scan# 1683

Delta R.T. -0.01 min

Lab File: BM001218.D

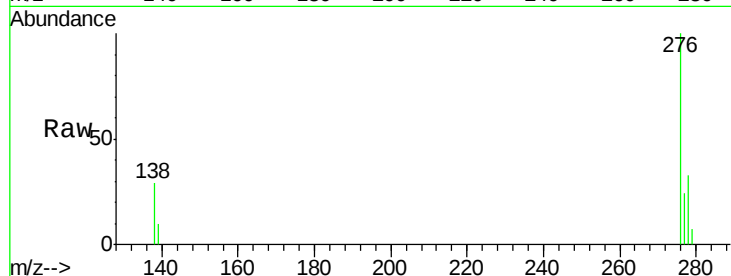
Acq: 05 May 2015 21:16

Instrument :

BNA_M

ClientSampleId :

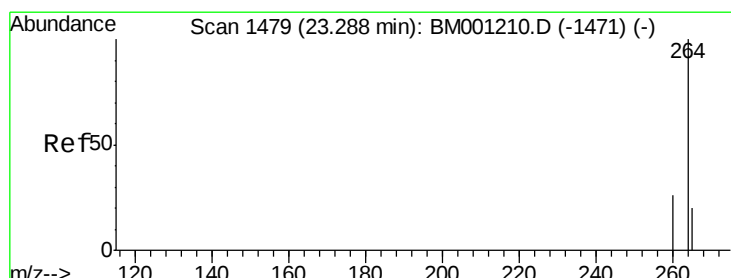
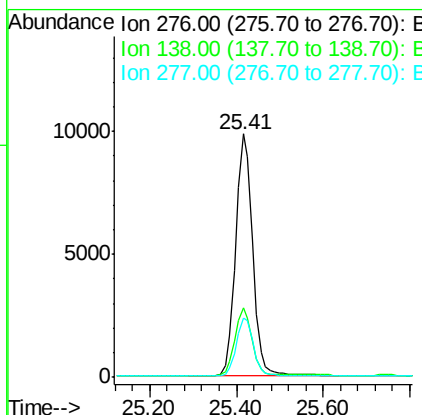
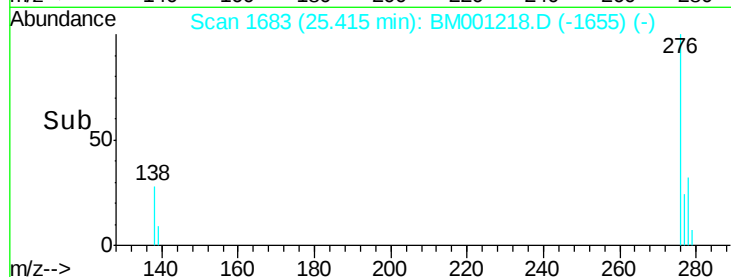
PT-PAH-SOIL



Tgt Ion:	276	Resp:	27267
Ion Ratio	Lower	Upper	
276	100		
138	28.1	24.3	36.5
277	24.2	19.6	29.4

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#30

Perylene-d12

Concen: 5.00 ng

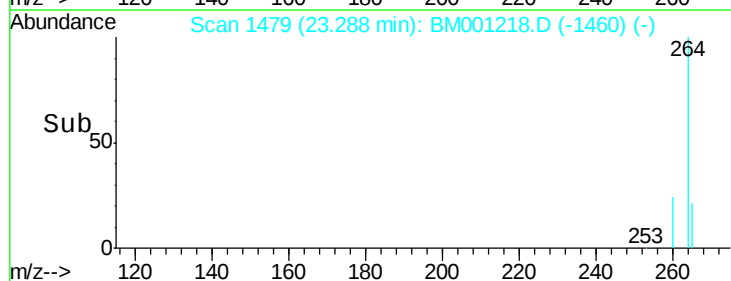
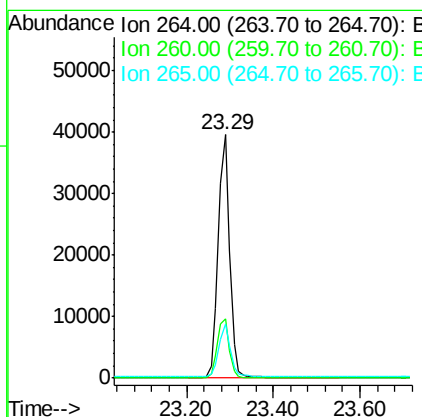
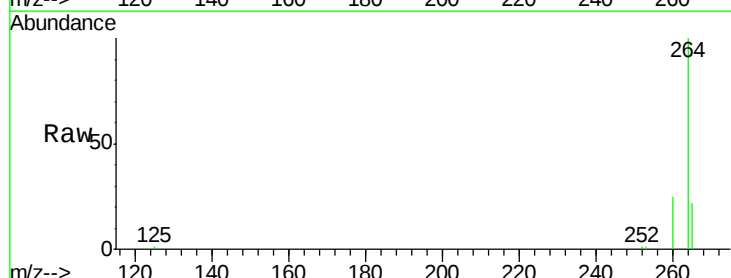
RT: 23.29 min Scan# 1479

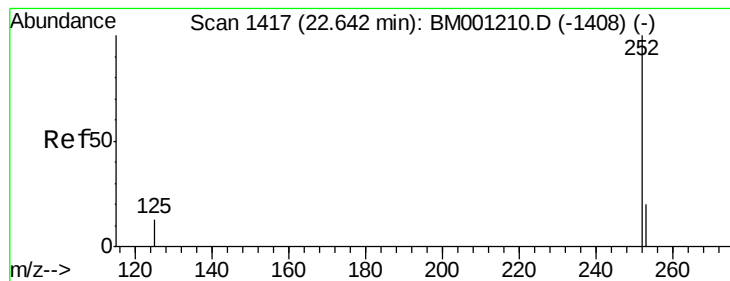
Delta R.T. 0.00 min

Lab File: BM001218.D

Acq: 05 May 2015 21:16

Tgt Ion:	264	Resp:	70920
Ion Ratio	Lower	Upper	
264	100		
260	24.6	20.5	30.7
265	22.1	16.8	25.2





#31

Benzo(b)fluoranthene

Concen: 5.85 ng m

RT: 22.64 min Scan# 1417

Delta R.T. 0.00 min

Lab File: BM001218.D

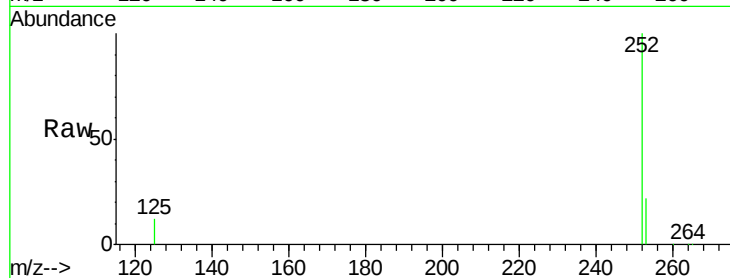
Acq: 05 May 2015 21:16

Instrument :

BNA_M

ClientSampleId :

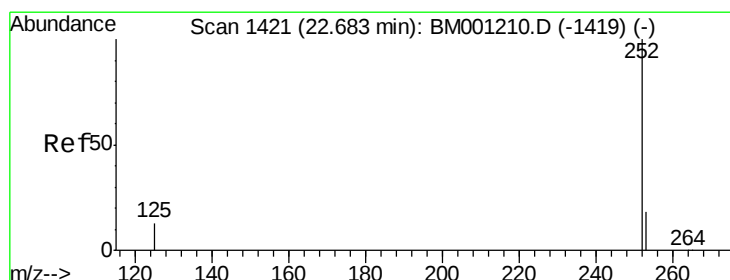
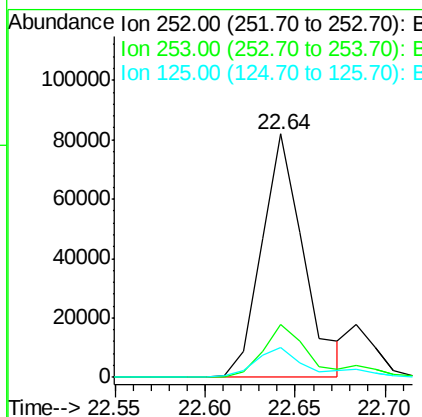
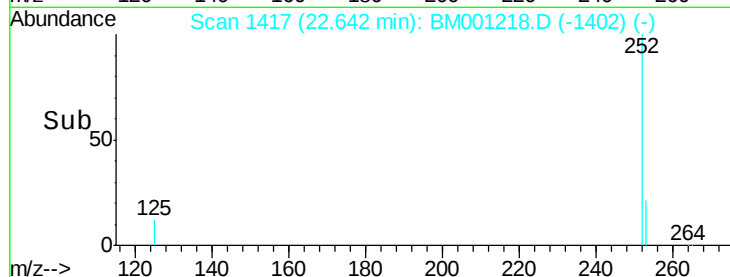
PT-PAH-SOIL



Tgt Ion:	252	Resp:	132737
Ion Ratio	Lower	Upper	
252	100		
253	21.6	17.1	25.7
125	12.4	10.9	16.3

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#32

Benzo(k)fluoranthene

Concen: 0.97 ng m

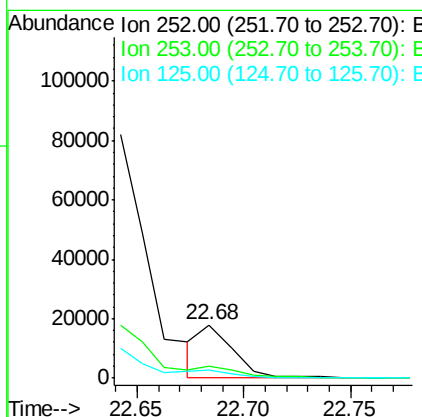
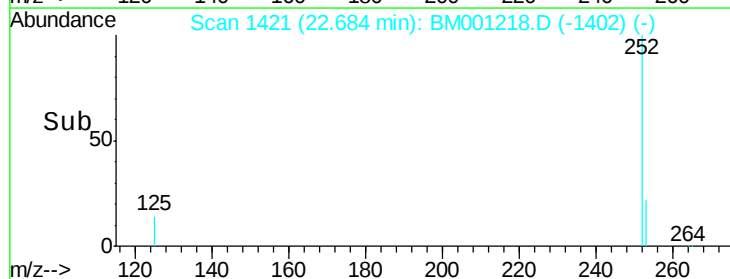
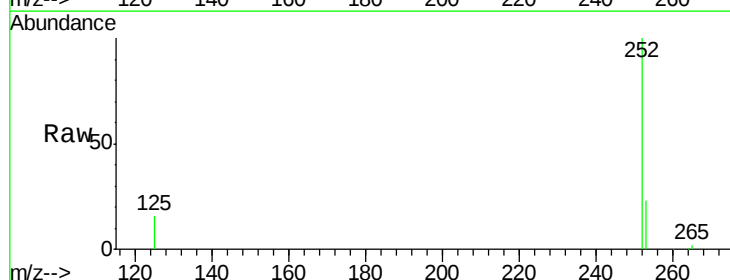
RT: 22.68 min Scan# 1421

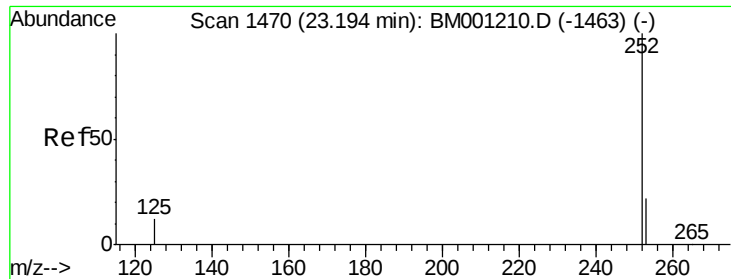
Delta R.T. 0.00 min

Lab File: BM001218.D

Acq: 05 May 2015 21:16

Tgt Ion:	252	Resp:	20260
Ion Ratio	Lower	Upper	
252	100		
253	23.0	17.3	25.9
125	15.6	10.2	15.4#





#33

Benzo(a)pyrene

Concen: 0.91 ng

RT: 23.18 min Scan# 1469

Delta R.T. -0.01 min

Lab File: BM001218.D

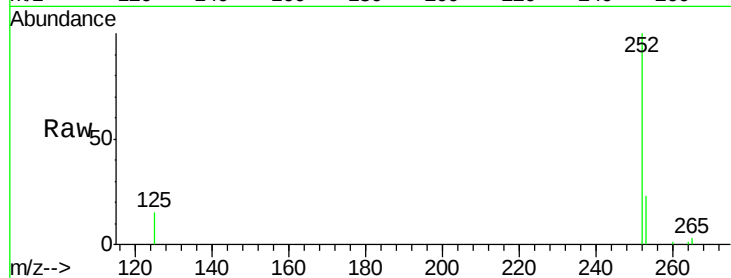
Acq: 05 May 2015 21:16

Instrument :

BNA_M

ClientSampleId :

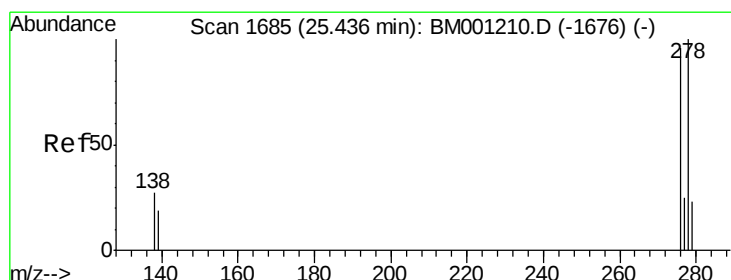
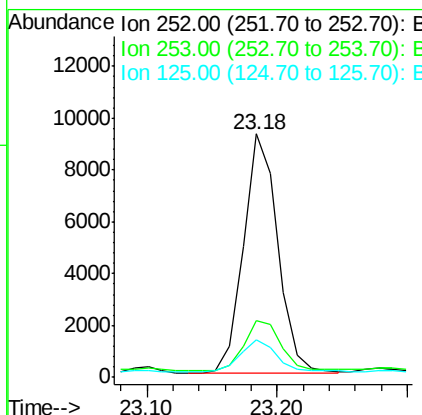
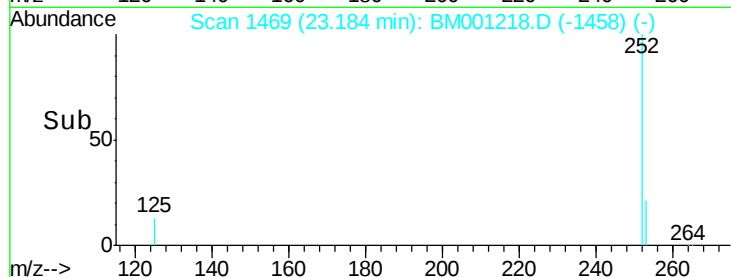
PT-PAH-SOIL



Tgt Ion:	252	Resp:	17007
Ion Ratio	Lower	Upper	
252	100		
253	23.3	18.6	28.0
125	15.5	10.6	16.0

Manual Integrations
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#34

Dibenzo(a,h)anthracene

Concen: 0.87 ng

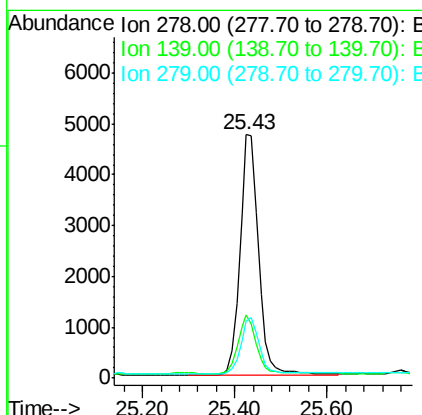
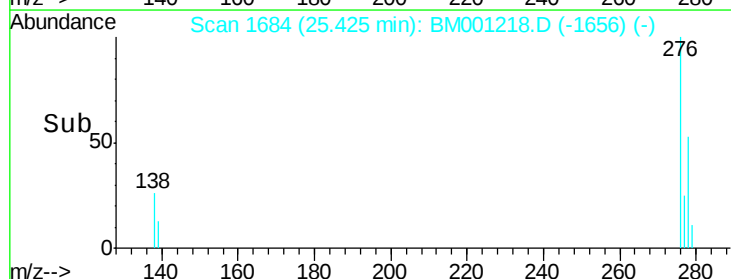
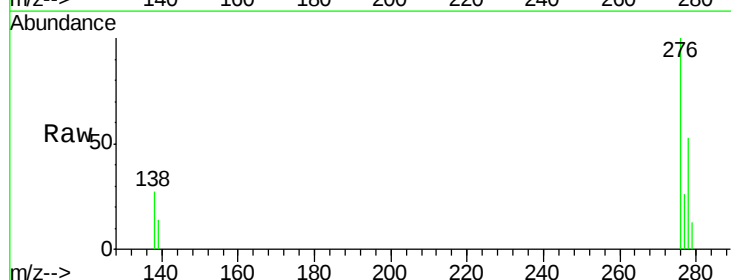
RT: 25.43 min Scan# 1684

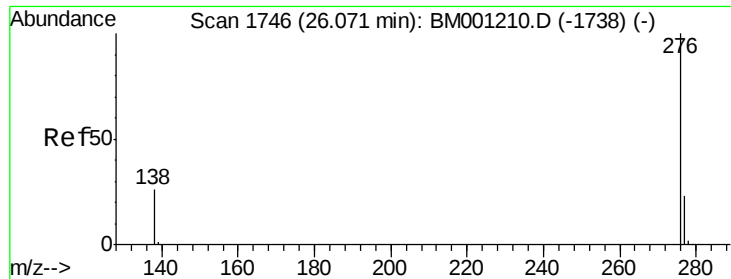
Delta R.T. -0.01 min

Lab File: BM001218.D

Acq: 05 May 2015 21:16

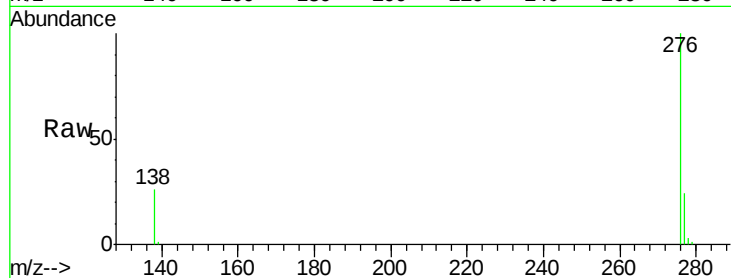
Tgt Ion:	278	Resp:	13258
Ion Ratio	Lower	Upper	
278	100		
139	25.8	16.2	24.4#
279	23.5	19.5	29.3





#35
 Benzo(g,h,i)perylene
 Concen: 3.55 ng
 RT: 26.07 min Scan# 1746
 Delta R.T. 0.00 min
 Lab File: BM001218.D
 Acq: 05 May 2015 21:16

Instrument :
 BNA_M
 ClientSampleId :
 PT-PAH-SOIL



Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.7	19.0	28.6
138	25.7	21.8	32.8

Manual Integrations
 APPROVED

apatel
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