

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA E\DATA\BE120117\
 Data File : BE094898.D
 Acq On : 1 Dec 2017 10:12
 Operator : SJ/JU
 Sample : I6298-16DL 10X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PT-PAH-SOILDL

Quant Time: Dec 01 14:19:06 2017
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE113017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 01 13:33:28 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.48	152	8096	0.40	ng	0.00
7) Naphthalene-d8	11.33	136	17477	0.40	ng	0.00
13) Acenaphthene-d10	15.07	164	10046	0.40	ng	0.00
19) Phenanthrene-d10	17.77	188	25529	0.40	ng	0.00
27) Chrysene-d12	21.89	240	29792	0.40	ng	0.00
34) Perylene-d12	24.56	264	24849	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.95	112	367	0.03	ng	0.00
5) Phenol-d6	7.59	99	656	0.03	ng	0.00
8) Nitrobenzene-d5	9.66	82	383	0.04	ng	0.00
11) 2-Methylnaphthalene-d10	12.87	152	1007	0.04	ng	0.00
14) 2,4,6-Tribromophenol	16.53	330	74	0.14	ng	0.00
15) 2-Fluorobiphenyl	13.71	172	1502	0.03	ng	0.00
25) Fluoranthene-d10	19.76	212	13804	0.04	ng	0.00
29) Terphenyl-d14	20.33	244	2459	0.04	ng	0.00

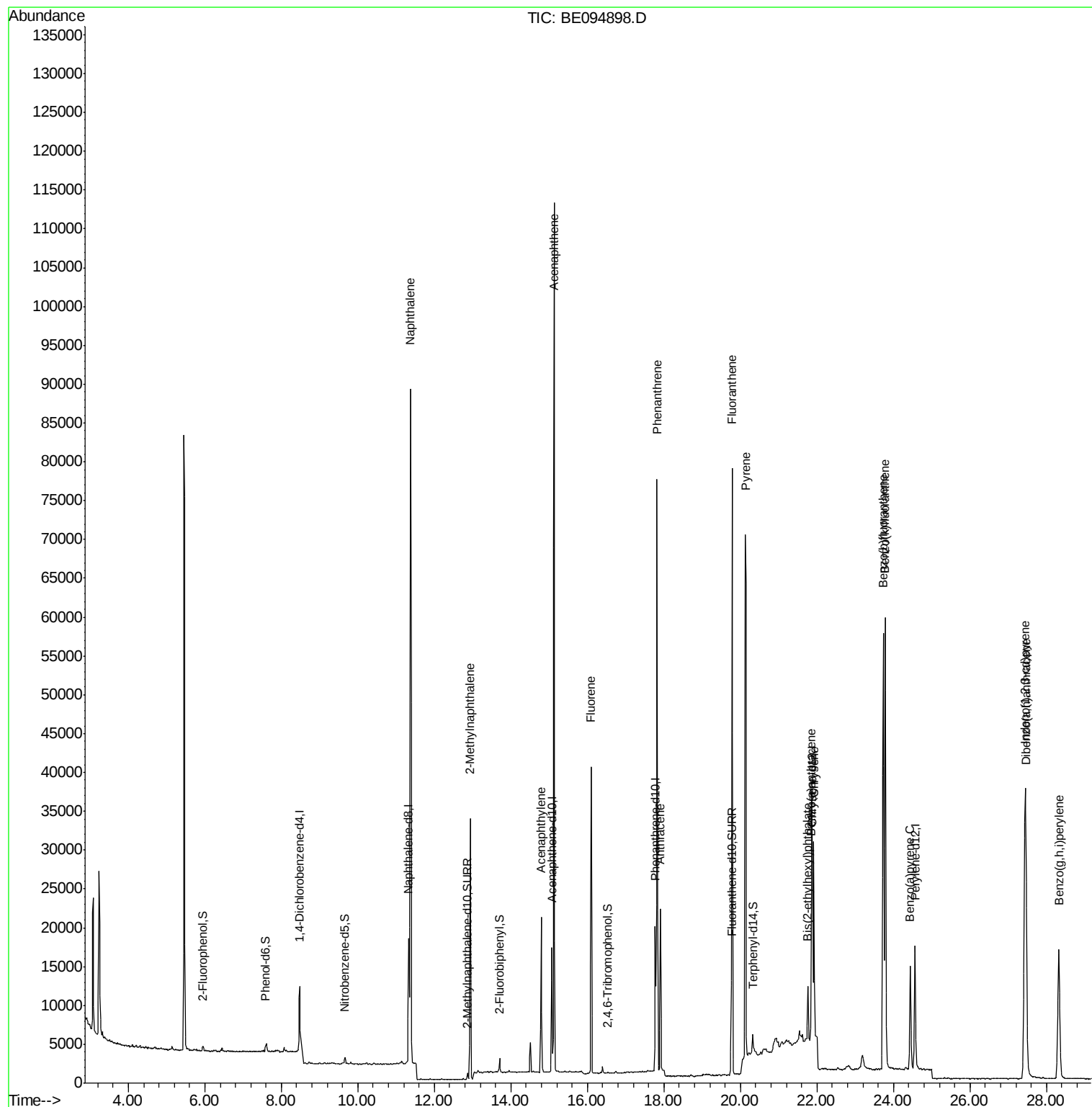
Target Compounds					Qvalue	
9) Naphthalene	11.38	128	144497	0.705	ng	99
12) 2-Methylnaphthalene	12.94	142	33351	0.655	ng	96
16) Acenaphthylene	14.79	152	21479	0.378	ng	99
17) Acenaphthene	15.13	154	57893	1.578	ng	94
18) Fluorene	16.10	166	25850	0.554	ng	# 77
23) Phenanthrene	17.82	178	74525	0.916	ng	98
24) Anthracene	17.91	178	23930	0.277	ng	# 92
26) Fluoranthene	19.79	202	70016	0.670	ng	99
28) Pyrene	20.13	202	88500	0.860	ng	97
30) Benzo(a)anthracene	21.86	228	20670	0.226	ng	# 63
31) Chrysene	21.92	228	24210	0.240	ng	# 64
32) Bis(2-ethylhexyl)phthalate	21.76	149	8901	0.059	ng	# 99
33) Indeno(1,2,3-cd)pyrene	27.44	276	71356	0.864	ng	98
35) Benzo(b)fluoranthene	23.73	252	81930	0.903	ng	# 40
36) Benzo(k)fluoranthene	23.78	252	87249	0.943	ng	# 39
37) Benzo(a)pyrene	24.44	252	23131	0.291	ng	# 34
38) Dibenzo(a,h)anthracene	27.47	278	41044	0.559	ng	# 43
39) Benzo(a,h,i)perylene	28.32	276	40886	0.557	ng	# 53

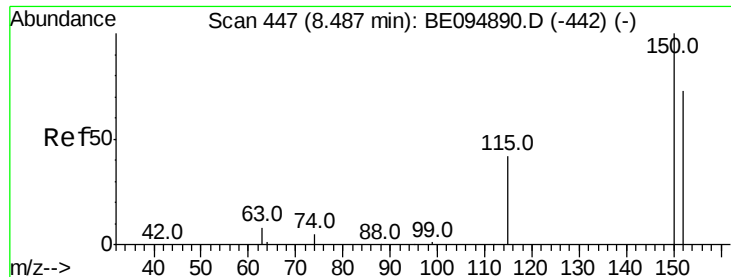
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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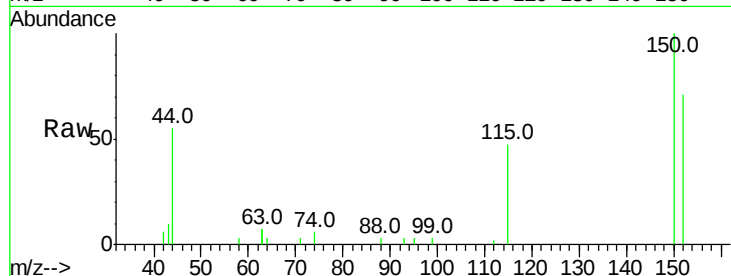


#1

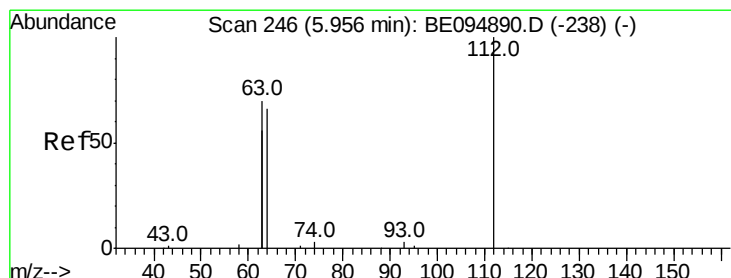
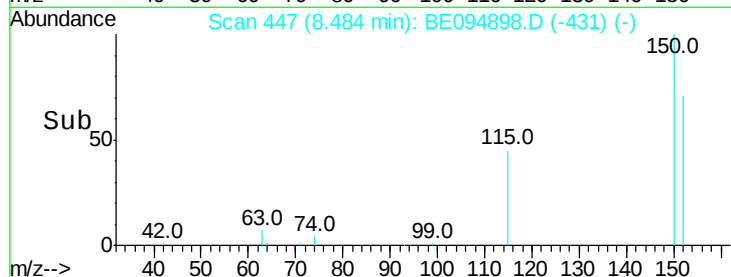
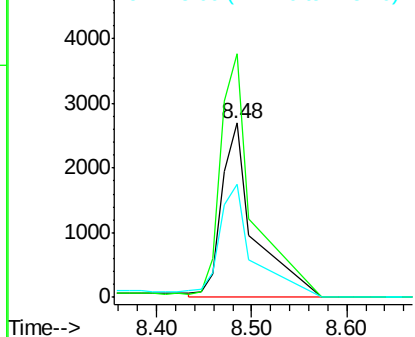
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 8.48 min Scan# 447
Delta R.T. -0.00 min
Lab File: BE094898.D
Acq: 1 Dec 2017 10:12

Instrument :
BNA_E
ClientSampleId :
PT-PAH-SOILD

Tot Ion:152 Resp: 8096
Ion Ratio Lower Upper
152 100
150 139.9 117.2 175.8
115 65.3 57.0 85.6



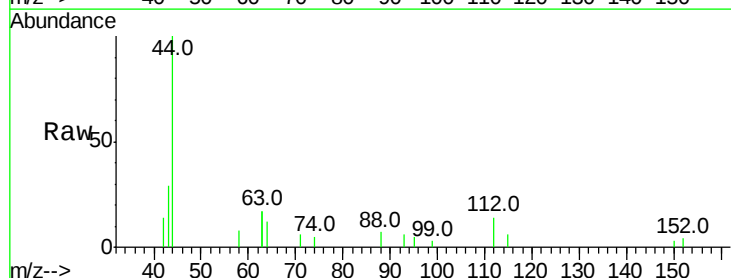
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



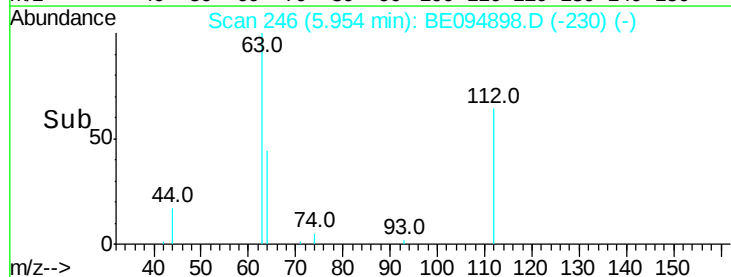
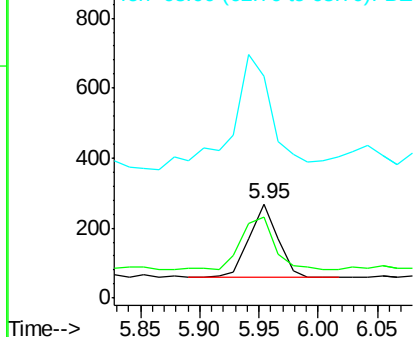
#4

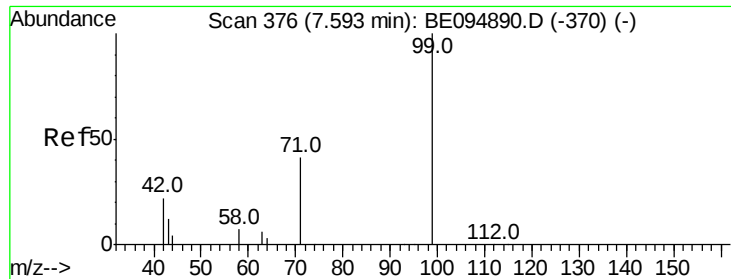
2-Fluorophenol
Concen: 0.029 ng
RT: 5.95 min Scan# 246
Delta R.T. -0.00 min
Lab File: BE094898.D
Acq: 1 Dec 2017 10:12

Tgt Ion:112 Resp: 367
Ion Ratio Lower Upper
112 100
64 83.7 60.1 90.1
63 207.1 116.8 175.2#



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BE0
Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.035 ng

RT: 7.59 min Scan# 376

Delta R.T. -0.00 min

Lab File: BE094898.D

Acq: 1 Dec 2017 10:12

Instrument :

BNA_E

ClientSampleId :

PT-PAH-SOILDL

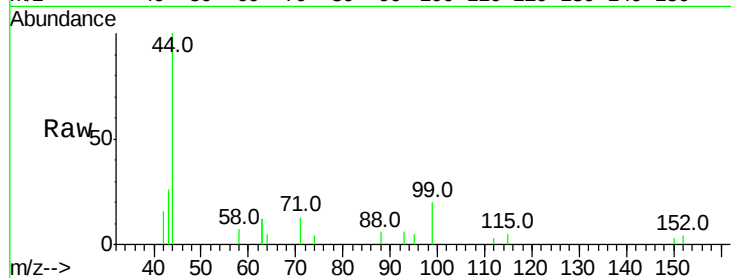
Tot Ion: 99 Resp: 656

Ion Ratio Lower Upper

99 100

42 51.8 20.2 30.2#

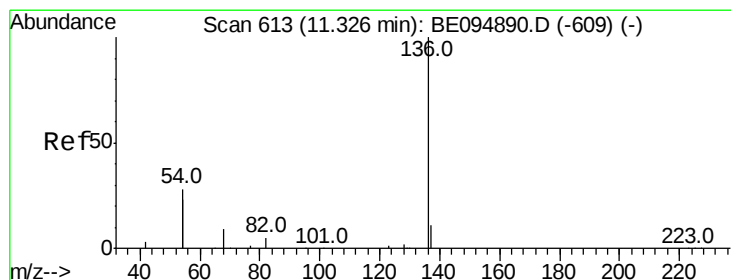
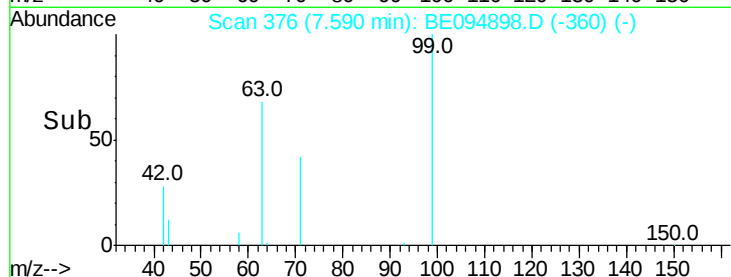
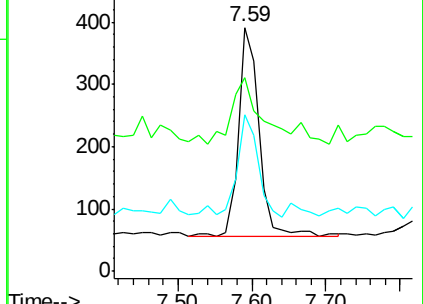
71 51.1 28.4 42.6#



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 11.33 min Scan# 613

Delta R.T. 0.00 min

Lab File: BE094898.D

Acq: 1 Dec 2017 10:12

Tgt Ion:136 Resp: 17477

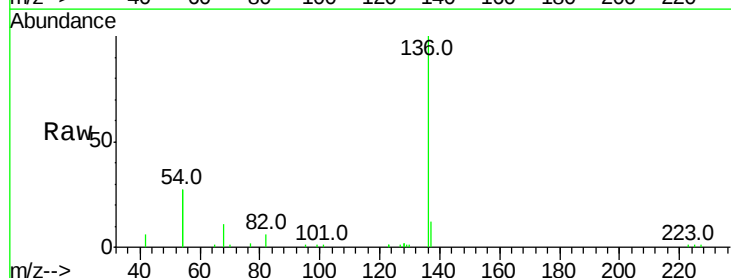
Ion Ratio Lower Upper

136 100

137 11.7 9.5 14.3

54 53.5 29.1 43.7#

68 10.7 6.2 9.2#

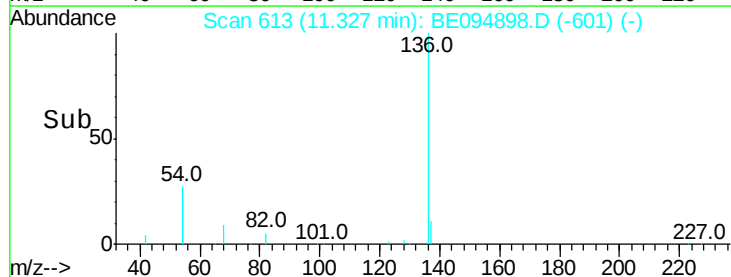
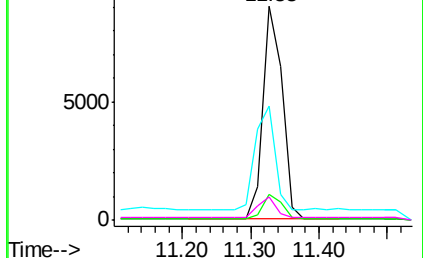


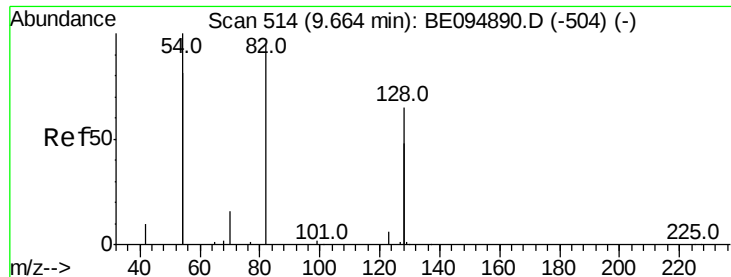
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0





#8

Nitrobenzene-d5

Concen: 0.037 ng

RT: 9.66 min Scan# 514

Delta R.T. 0.00 min

Lab File: BE094898.D

Acq: 1 Dec 2017 10:12

Instrument :

BNA_E

ClientSampleId :

PT-PAH-SOILD

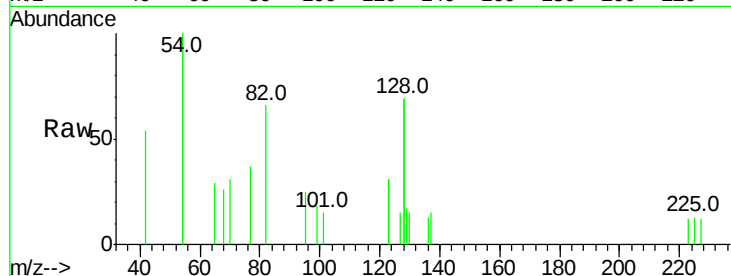
Tot Ion: 82 Resp: 383

Ion Ratio Lower Upper

82 100

128 209.5 150.0 225.0

54 301.8 154.2 231.4#

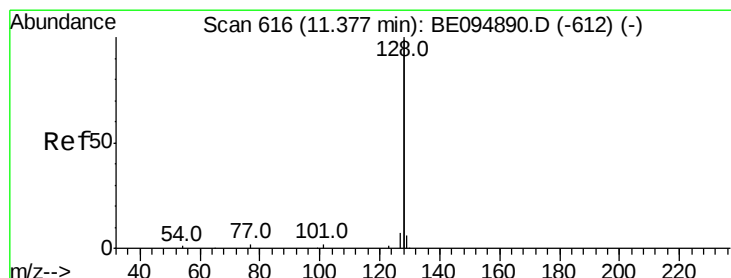
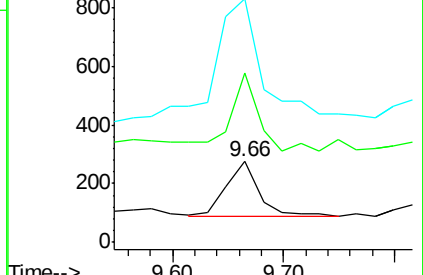
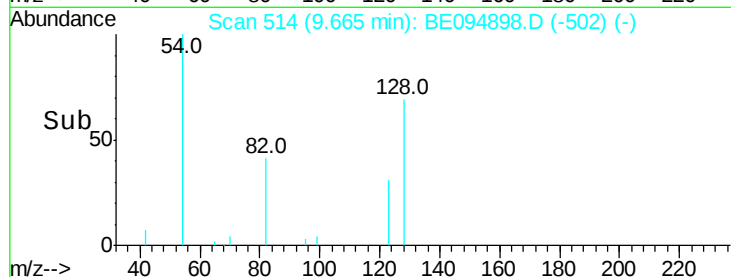


Abundance Ion 82.00 (81.70 to 82.70): BE094898.D (-502) (-)

Ion 128.00 (127.70 to 128.70): BE094898.D (-502) (-)

Ion 54.00 (53.70 to 54.70): BE094898.D (-502) (-)

Time-->



#9

Naphthalene

Concen: 0.705 ng

RT: 11.38 min Scan# 616

Delta R.T. 0.00 min

Lab File: BE094898.D

Acq: 1 Dec 2017 10:12

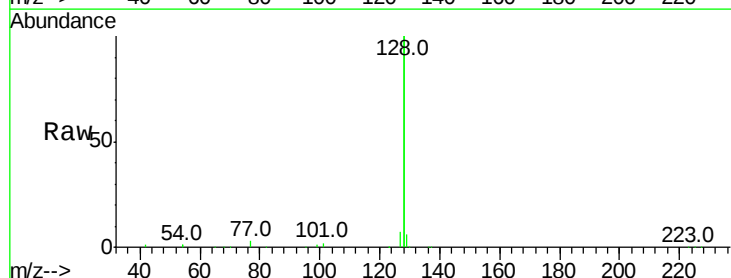
Tgt Ion: 128 Resp: 144497

Ion Ratio Lower Upper

128 100

129 2.8 2.6 3.8

127 3.5 2.8 4.2

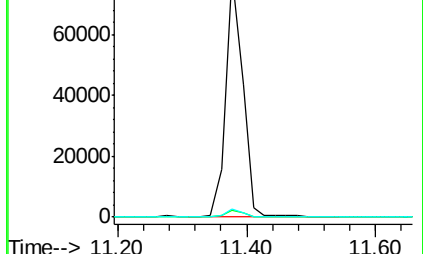
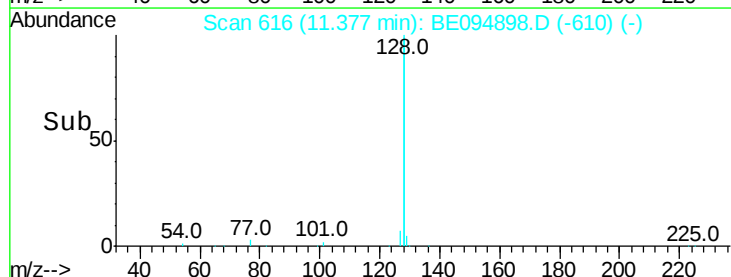


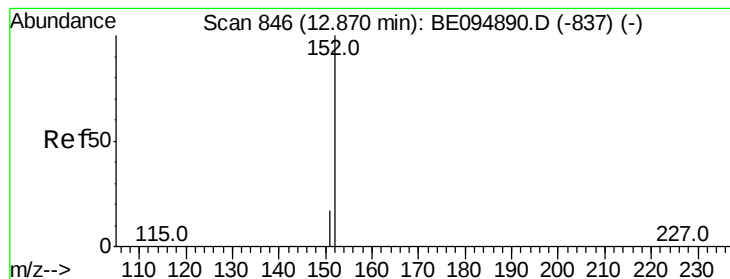
Abundance Ion 128.00 (127.70 to 128.70): BE094898.D (-610) (-)

Ion 129.00 (128.70 to 129.70): BE094898.D (-610) (-)

Ion 127.00 (126.70 to 127.70): BE094898.D (-610) (-)

Time-->





#11

2-Methylnaphthalene-d10

Concen: 0.036 ng

RT: 12.87 min Scan# 846

Delta R.T. 0.00 min

Lab File: BE094898.D

Acq: 1 Dec 2017 10:12

Instrument :

BNA_E

ClientSampleId :

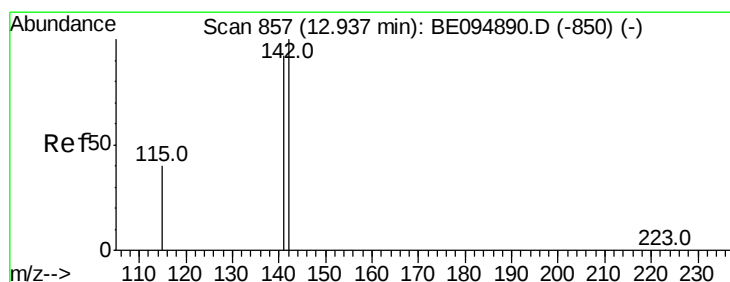
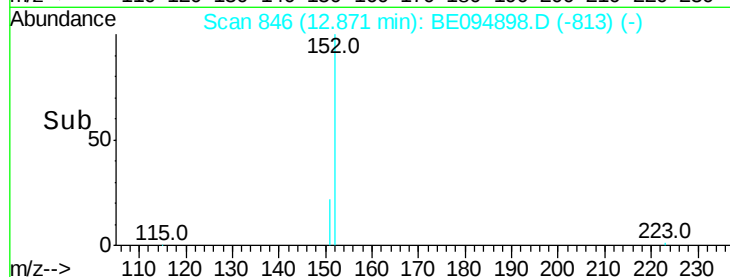
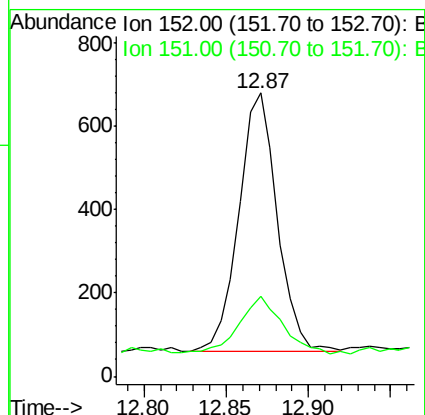
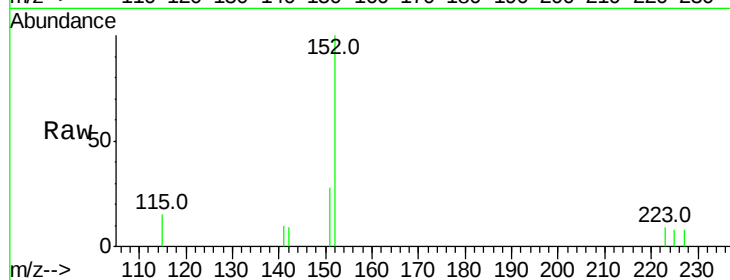
PT-PAH-SOILDL

Tot Ion:152 Resp: 1007

Ion Ratio Lower Upper

152 100

151 24.8 15.4 23.0#



#12

2-Methylnaphthalene

Concen: 0.655 ng

RT: 12.94 min Scan# 857

Delta R.T. 0.00 min

Lab File: BE094898.D

Acq: 1 Dec 2017 10:12

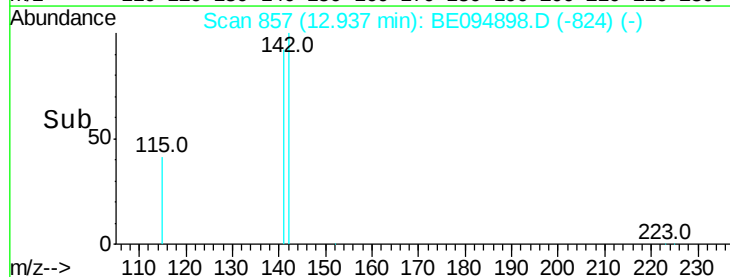
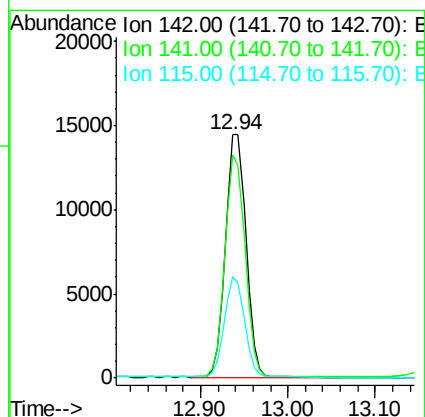
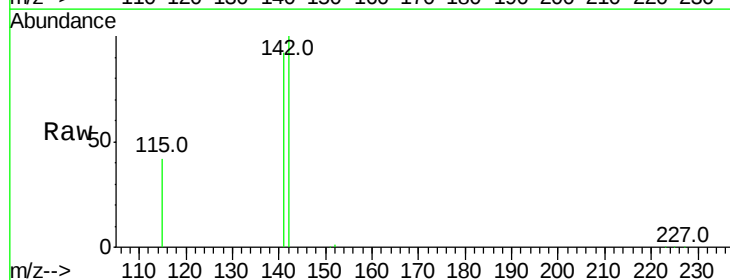
Tgt Ion:142 Resp: 33351

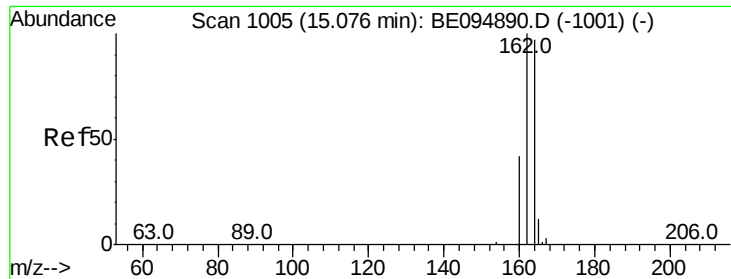
Ion Ratio Lower Upper

142 100

141 91.6 70.4 105.6

115 41.5 31.7 47.5

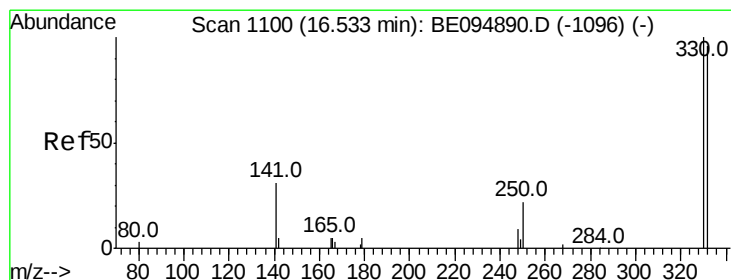
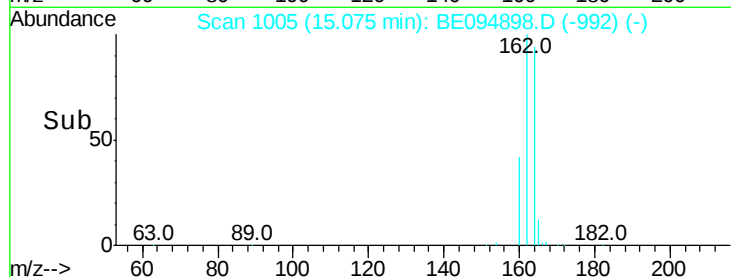
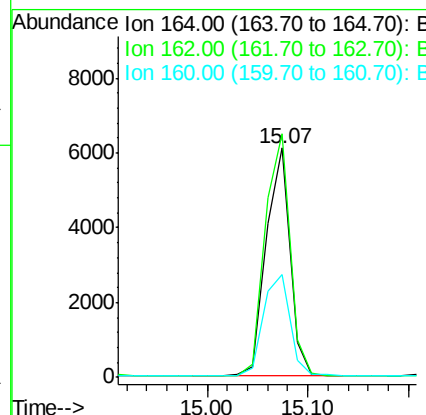
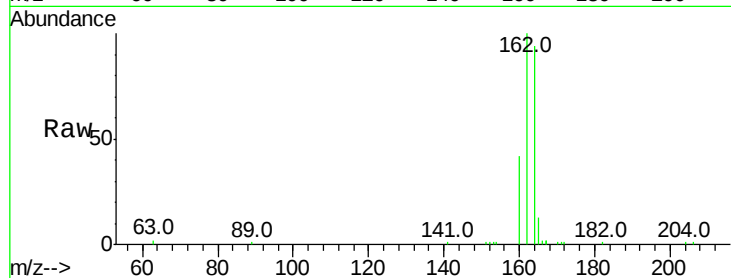




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 15.07 min Scan# 1005
Delta R.T. -0.00 min
Lab File: BE094898.D
Acq: 1 Dec 2017 10:12

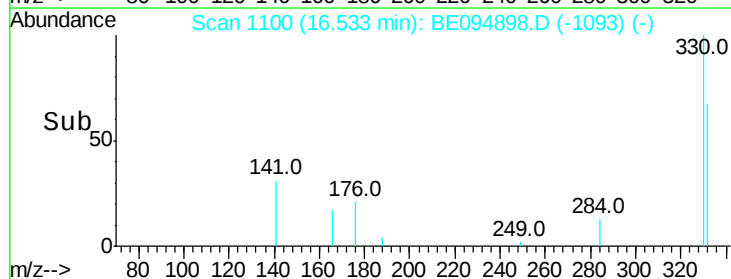
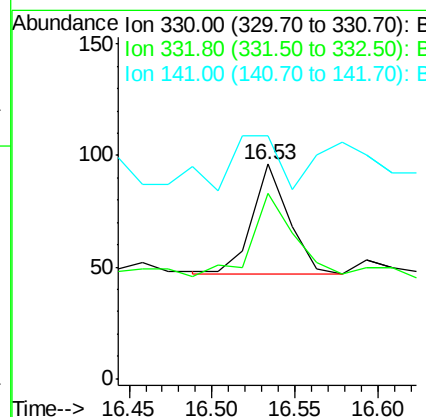
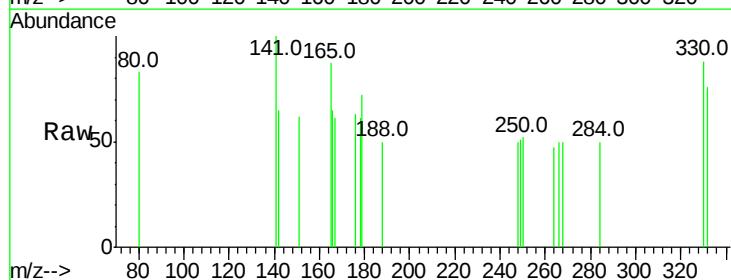
Instrument :
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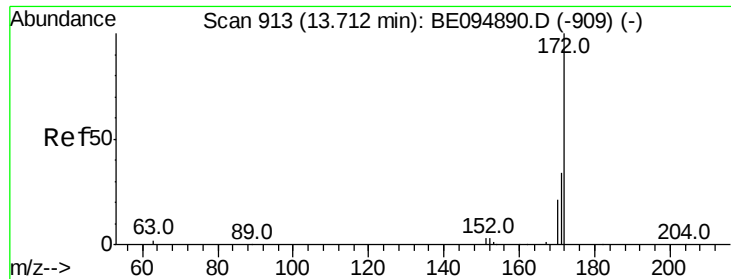
Tot Ion:164 Resp: 10046
Ion Ratio Lower Upper
164 100
162 106.2 83.1 124.7
160 44.8 37.1 55.7



#14
2,4,6-Tribromophenol
Concen: 0.139 ng
RT: 16.53 min Scan# 1100
Delta R.T. 0.00 min
Lab File: BE094898.D
Acq: 1 Dec 2017 10:12

Tgt Ion:330 Resp: 74
Ion Ratio Lower Upper
330 100
332 106.8 152.7 229.1#
141 73.0 33.7 50.5#

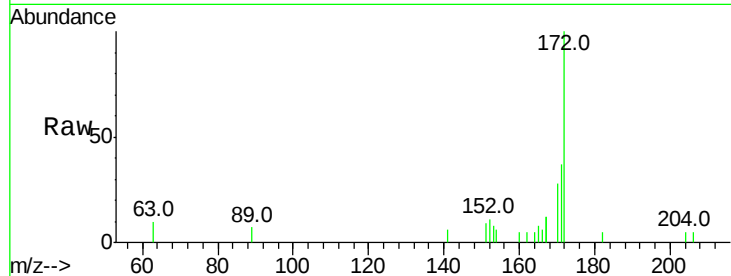




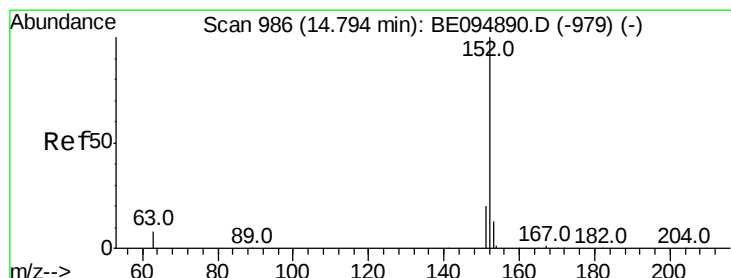
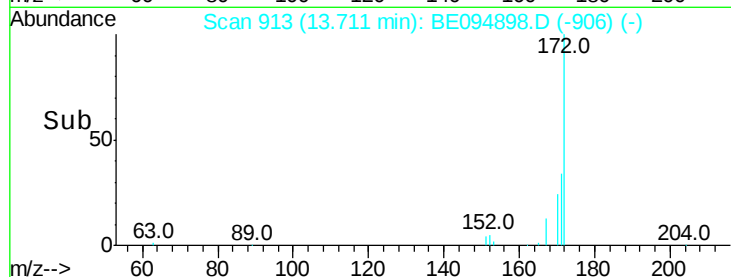
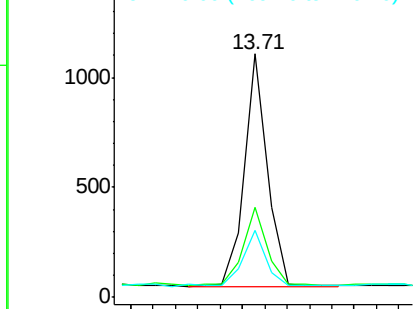
#15
2-Fluorobiphenyl
Concen: 0.035 ng
RT: 13.71 min Scan# 913
Delta R.T. -0.00 min
Lab File: BE094898.D
Acq: 1 Dec 2017 10:12

Instrument :
BNA_E
ClientSampleId :
PT-PAH-SOILD

Tot Ion:172 Resp: 1502
Ion Ratio Lower Upper
172 100
171 37.1 29.9 44.9
170 27.7 21.8 32.8

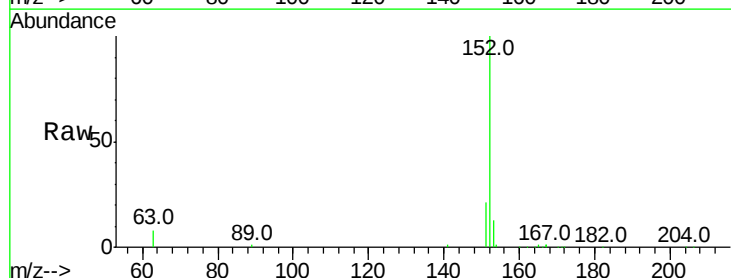


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

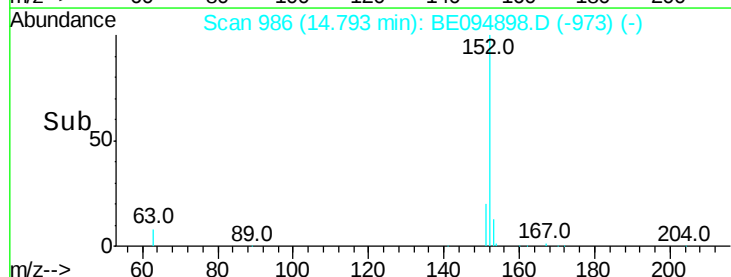
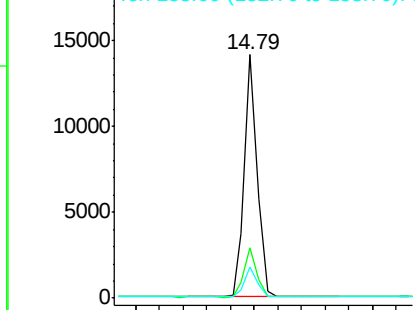


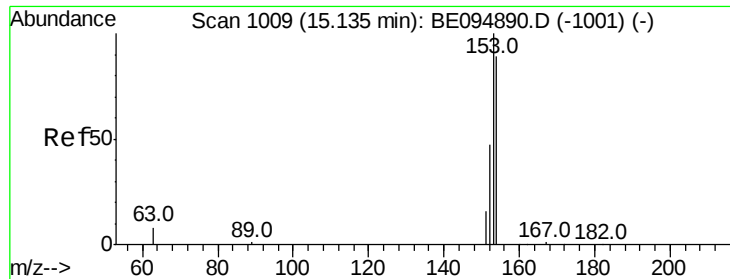
#16
Acenaphthylene
Concen: 0.378 ng
RT: 14.79 min Scan# 986
Delta R.T. -0.00 min
Lab File: BE094898.D
Acq: 1 Dec 2017 10:12

Tgt Ion:152 Resp: 21479
Ion Ratio Lower Upper
152 100
151 20.1 15.7 23.5
153 12.6 10.5 15.7



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





#17

Acenaphthene

Concen: 1.578 ng

RT: 15.13 min Scan# 1009

Delta R.T. -0.00 min

Lab File: BE094898.D

Acq: 1 Dec 2017 10:12

Instrument :

BNA_E

ClientSampleId :

PT-PAH-SOILDL

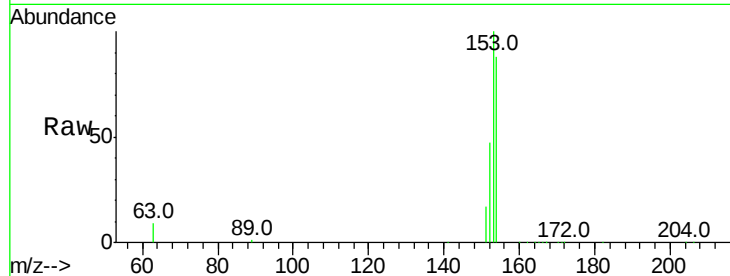
Tot Ion:154 Resp: 57893

Ion Ratio Lower Upper

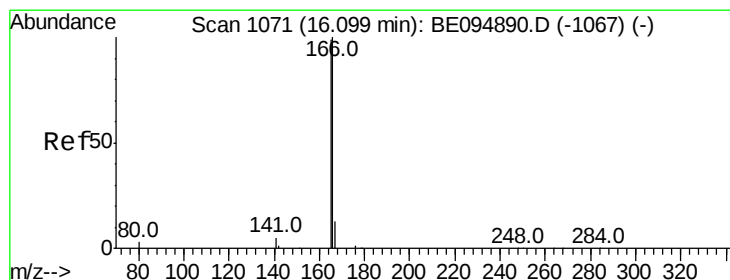
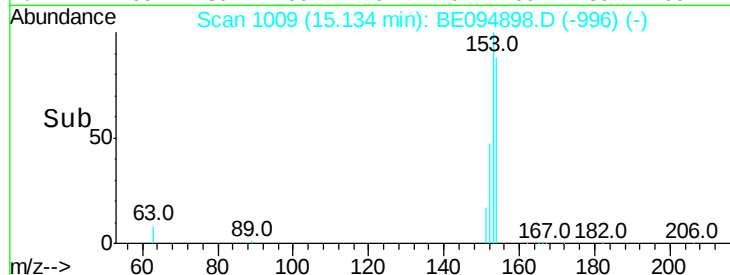
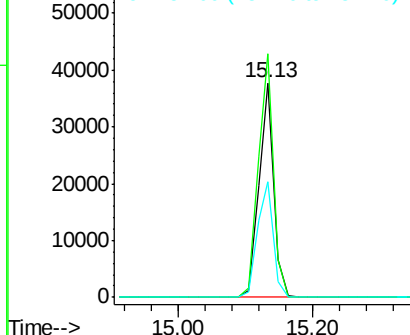
154 100

153 116.5 89.2 133.8

152 57.6 42.0 63.0



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#18

Fluorene

Concen: 0.554 ng

RT: 16.10 min Scan# 1071

Delta R.T. 0.00 min

Lab File: BE094898.D

Acq: 1 Dec 2017 10:12

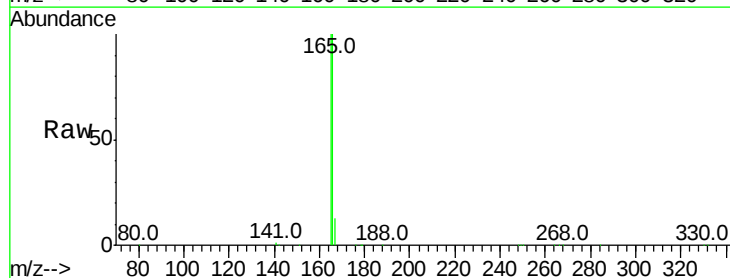
Tgt Ion:166 Resp: 25850

Ion Ratio Lower Upper

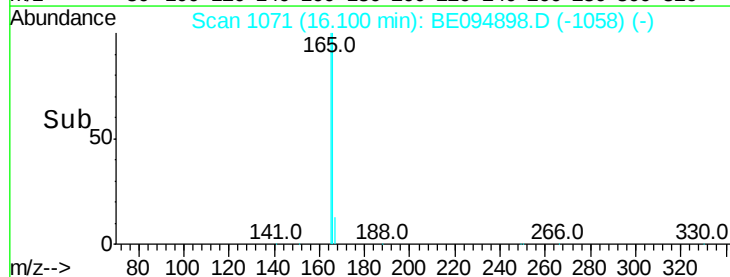
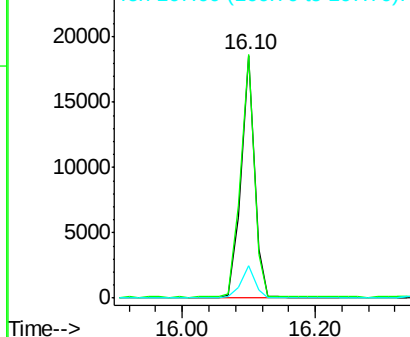
166 100

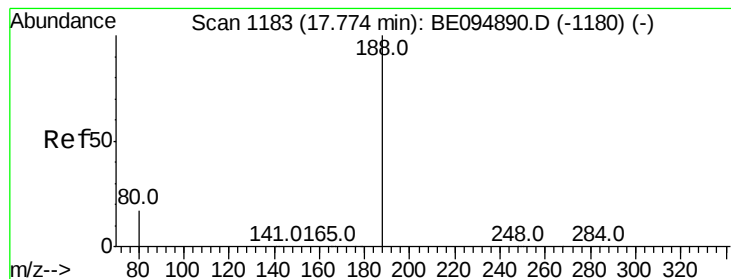
165 102.0 77.8 116.6

167 13.0 42.4 63.6#



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.77 min Scan# 1183

Delta R.T. 0.00 min

Lab File: BE094898.D

Acq: 1 Dec 2017 10:12

Instrument :

BNA_E

ClientSampleId :

PT-PAH-SOILDL

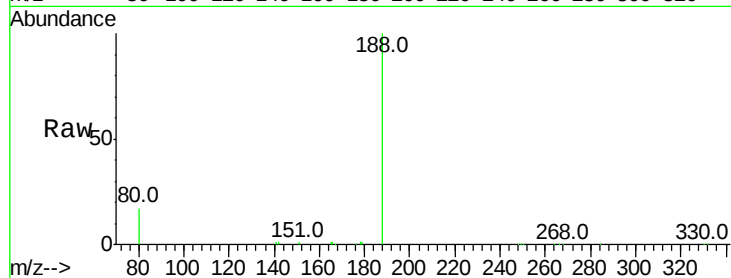
Tot Ion:188 Resp: 25529

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

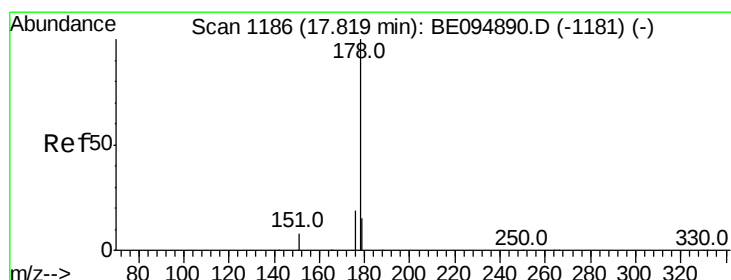
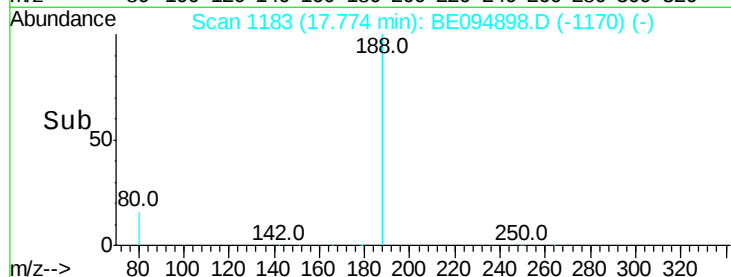
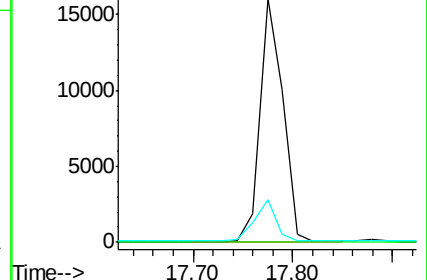
80 17.4 3.6 5.4#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#23

Phenanthrene

Concen: 0.916 ng

RT: 17.82 min Scan# 1186

Delta R.T. 0.00 min

Lab File: BE094898.D

Acq: 1 Dec 2017 10:12

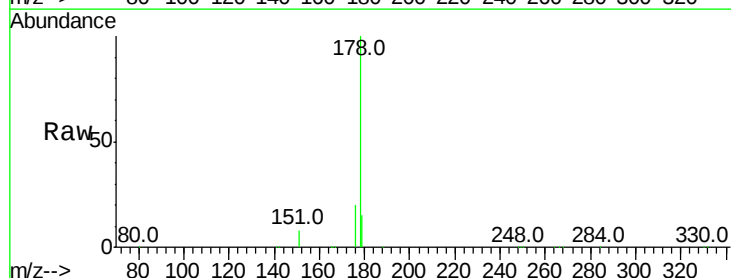
Tgt Ion:178 Resp: 74525

Ion Ratio Lower Upper

178 100

176 20.3 15.1 22.7

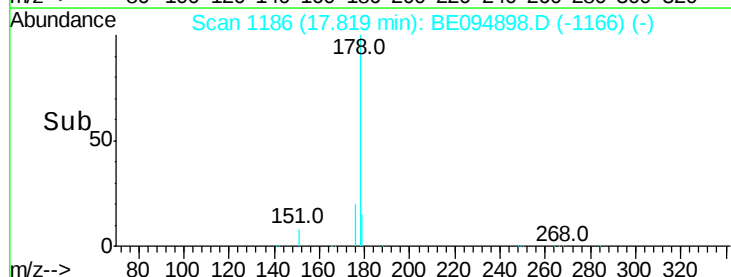
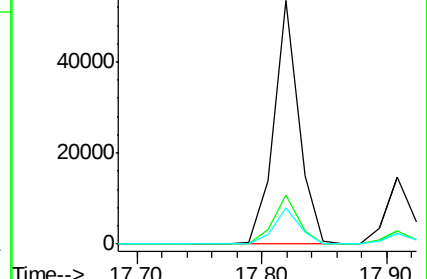
179 15.2 11.8 17.6

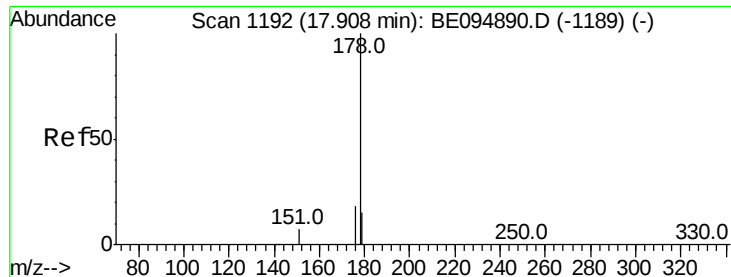


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Anthracene

Concen: 0.277 ng

RT: 17.91 min Scan# 1192

Delta R.T. 0.00 min

Lab File: BE094898.D

Acq: 1 Dec 2017 10:12

Instrument :

BNA_E

ClientSampleID :

PT-PAH-SOILD

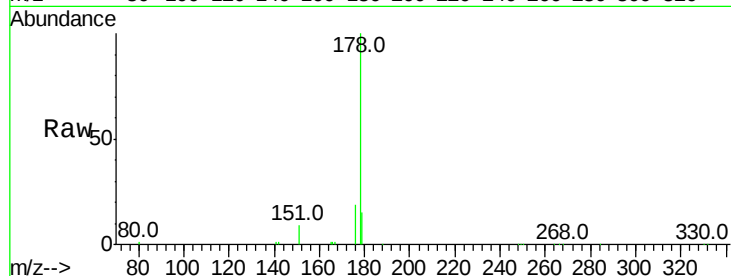
Tot Ion:178 Resp: 23930

Ion Ratio Lower Upper

178 100

176 20.8 12.8 19.2#

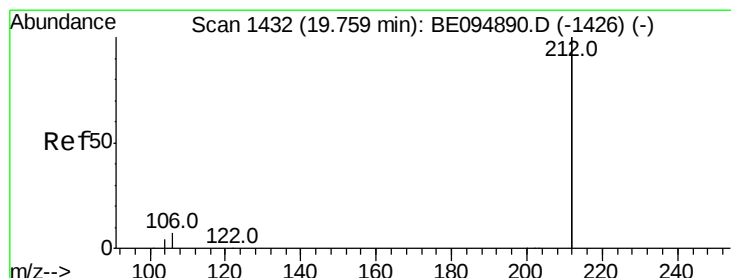
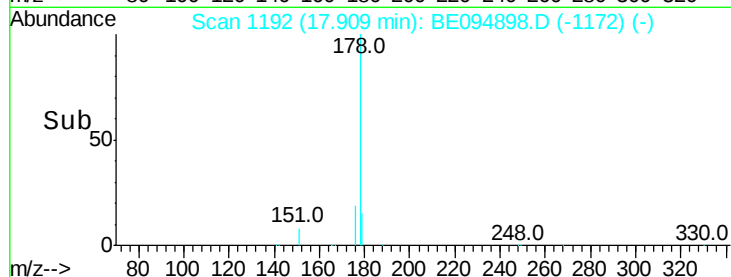
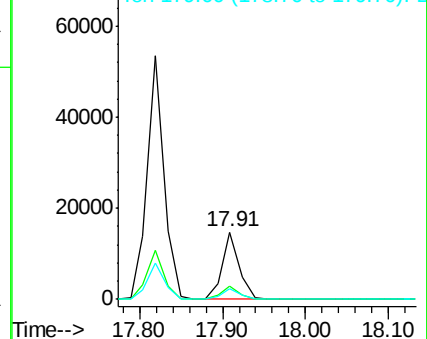
179 18.0 13.0 19.6



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#25

Fluoranthene-d10

Concen: 0.040 ng

RT: 19.76 min Scan# 1432

Delta R.T. 0.00 min

Lab File: BE094898.D

Acq: 1 Dec 2017 10:12

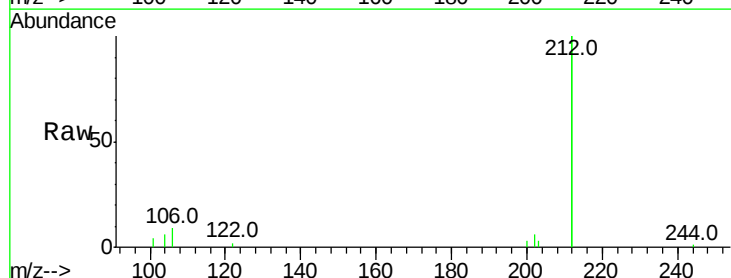
Tgt Ion:212 Resp: 13804

Ion Ratio Lower Upper

212 100

106 4.5 2.8 4.2#

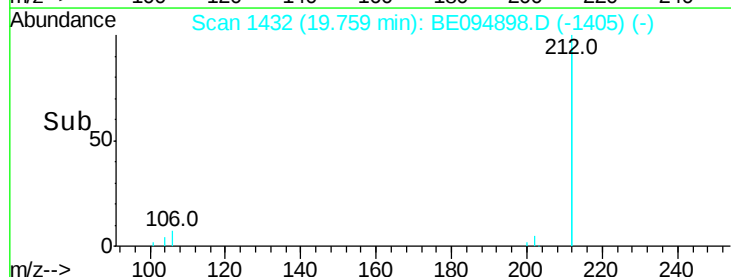
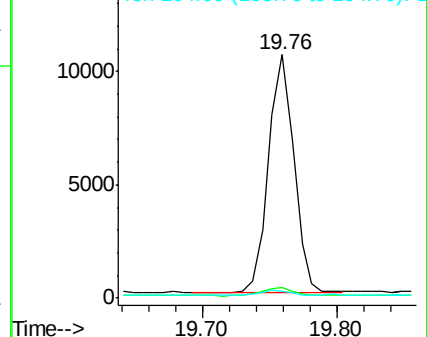
104 2.5 1.6 2.4#

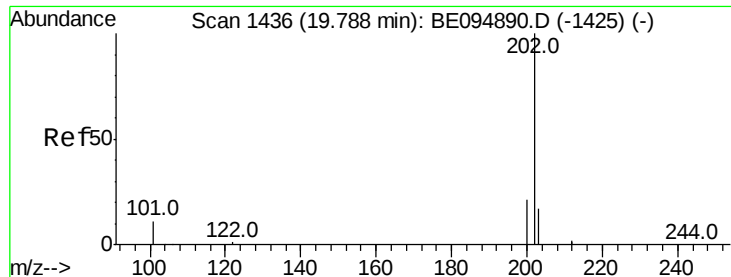


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E

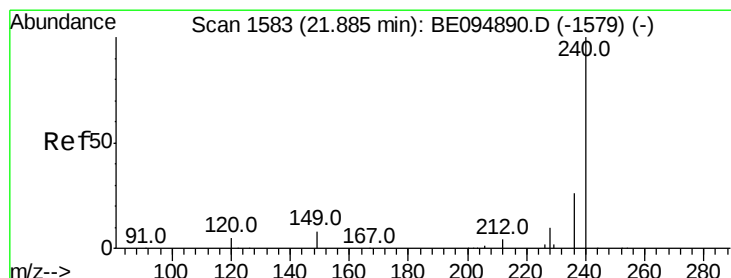
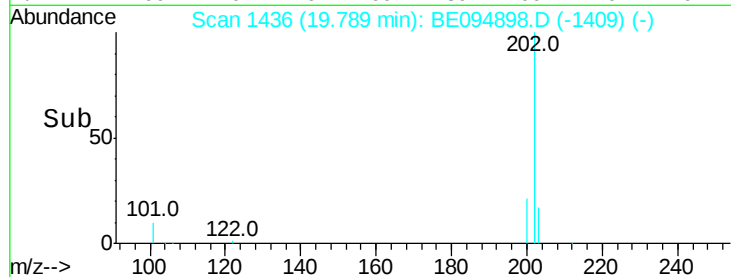
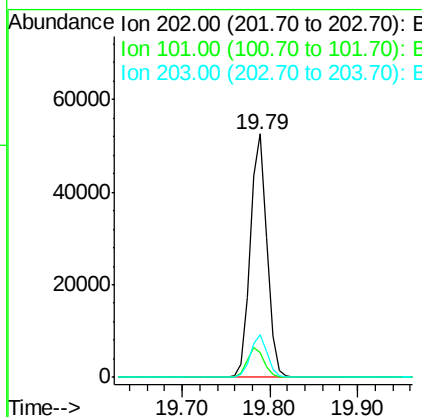
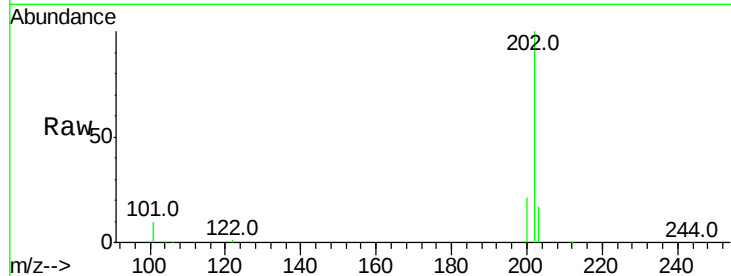




#26
 Fluoranthene
 Concen: 0.670 ng
 RT: 19.79 min Scan# 1436
 Delta R.T. 0.00 min
 Lab File: BE094898.D
 Acq: 1 Dec 2017 10:12

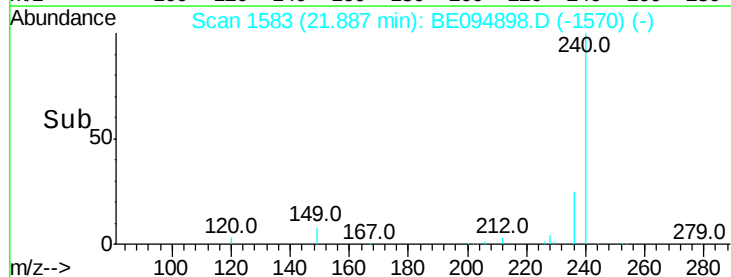
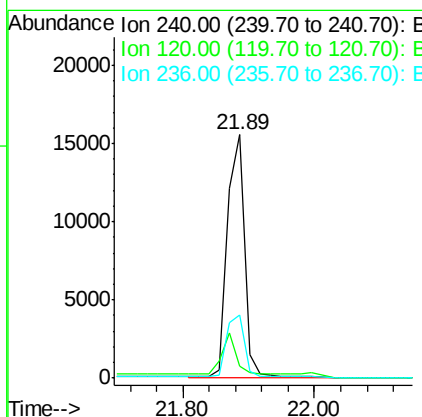
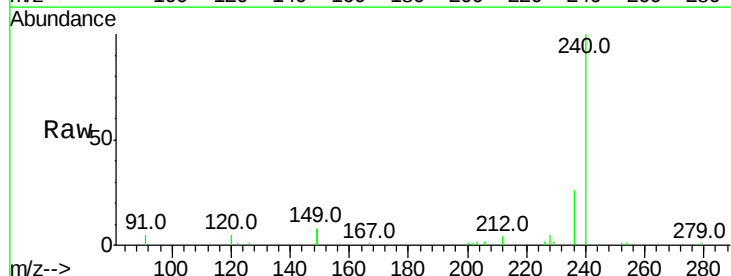
Instrument :
 BNA_E
 ClientSampleID :
 PT-PAH-SOILD

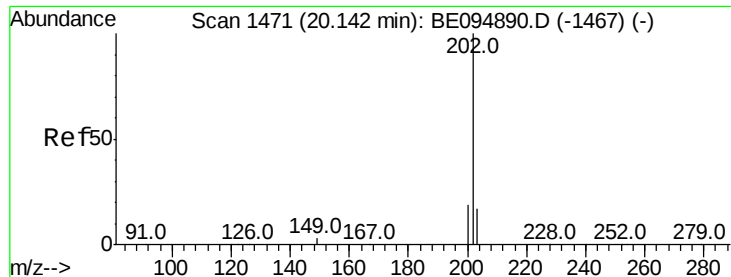
Tot Ion:202 Resp: 70016
 Ion Ratio Lower Upper
 202 100
 101 12.1 9.8 14.8
 203 17.3 13.7 20.5



#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.89 min Scan# 1583
 Delta R.T. 0.00 min
 Lab File: BE094898.D
 Acq: 1 Dec 2017 10:12

Tgt Ion:240 Resp: 29792
 Ion Ratio Lower Upper
 240 100
 120 5.1 5.5 8.3#
 236 25.8 20.7 31.1





#28

Pvrene

Concen: 0.860 ng

RT: 20.13 min Scan# 1470

Delta R.T. -0.01 min

Lab File: BE094898.D

Acq: 1 Dec 2017 10:12

Instrument :

BNA_E

ClientSampleId :

PT-PAH-SOILDL

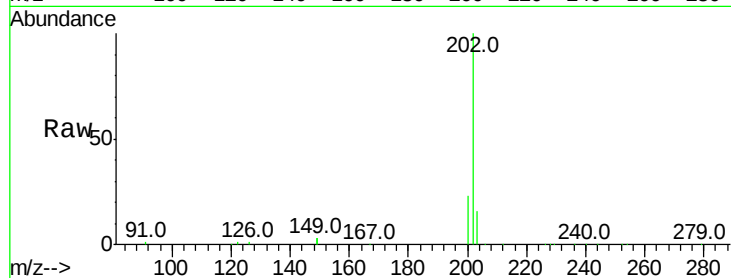
Tot Ion:202 Resp: 88500

Ion Ratio Lower Upper

202 100

200 21.4 16.6 25.0

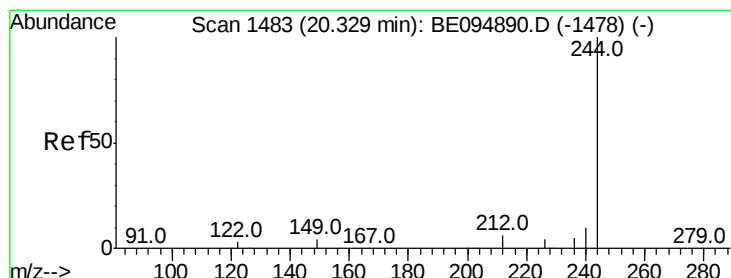
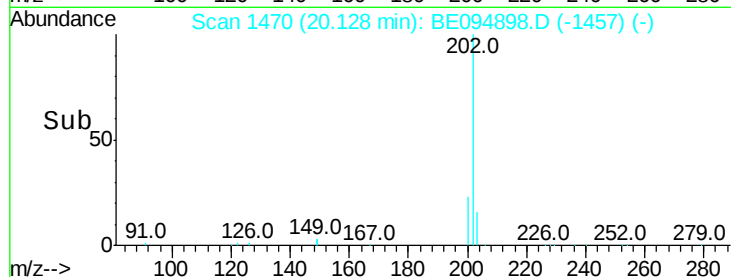
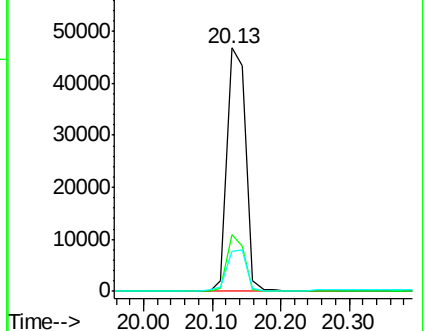
203 19.0 13.8 20.8



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



#29

Terphenyl-d14

Concen: 0.045 ng

RT: 20.33 min Scan# 1483

Delta R.T. 0.00 min

Lab File: BE094898.D

Acq: 1 Dec 2017 10:12

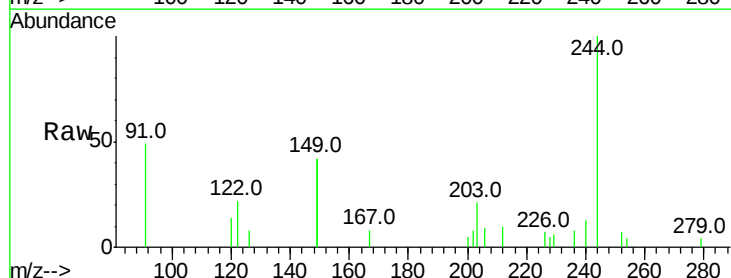
Tgt Ion:244 Resp: 2459

Ion Ratio Lower Upper

244 100

212 9.5 25.4 38.0#

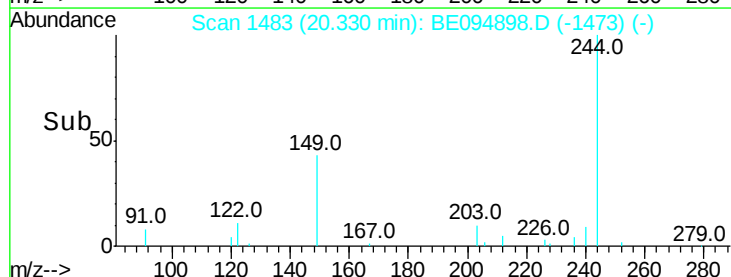
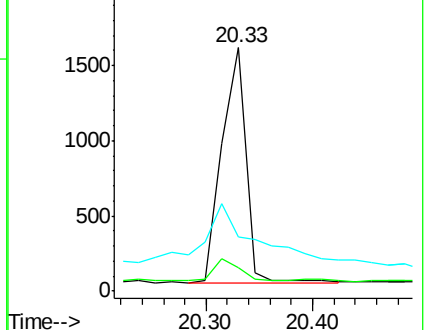
122 22.2 8.1 12.1#

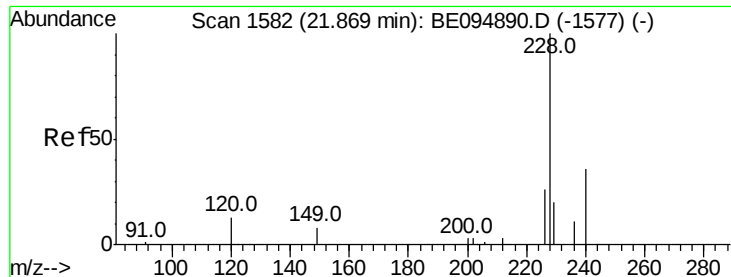


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#30

Benzo(a)anthracene

Concen: 0.226 ng

RT: 21.86 min Scan# 1581

Delta R.T. -0.01 min

Lab File: BE094898.D

Acq: 1 Dec 2017 10:12

Instrument :

BNA_E

ClientSampleId :

PT-PAH-SOILD

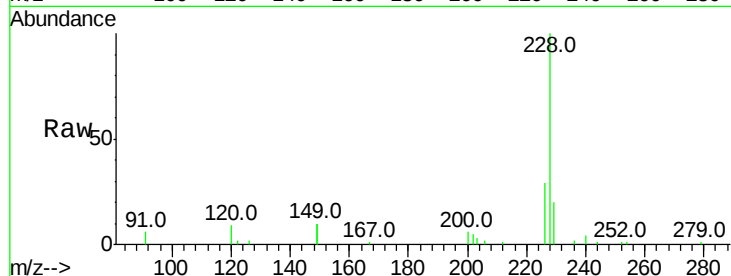
Tot Ion:228 Resp: 20670

Ion Ratio Lower Upper

228 100

226 28.8 40.0 60.0#

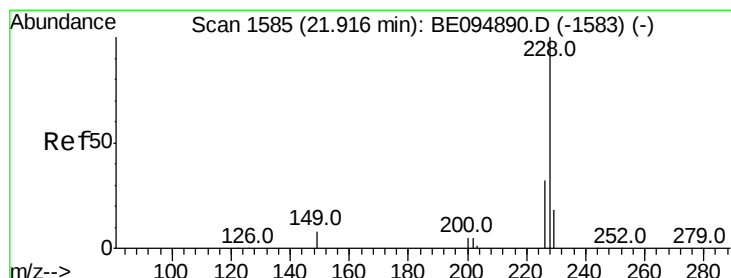
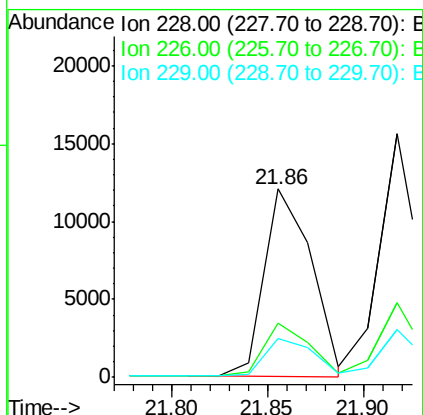
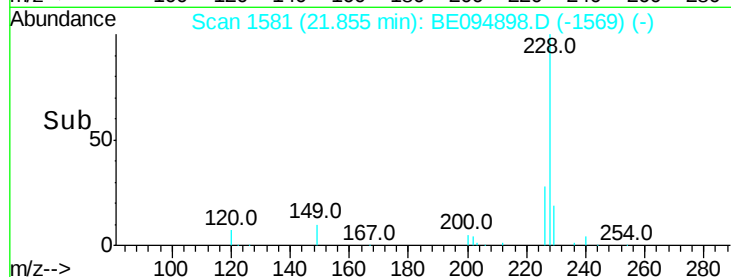
229 20.3 40.0 60.0#



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#31

Chrysene

Concen: 0.240 ng

RT: 21.92 min Scan# 1585

Delta R.T. 0.00 min

Lab File: BE094898.D

Acq: 1 Dec 2017 10:12

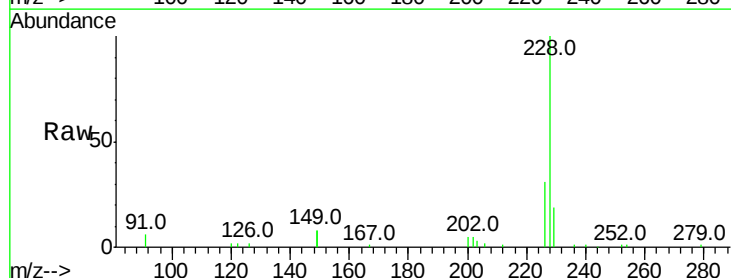
Tgt Ion:228 Resp: 24210

Ion Ratio Lower Upper

228 100

226 30.6 40.0 60.0#

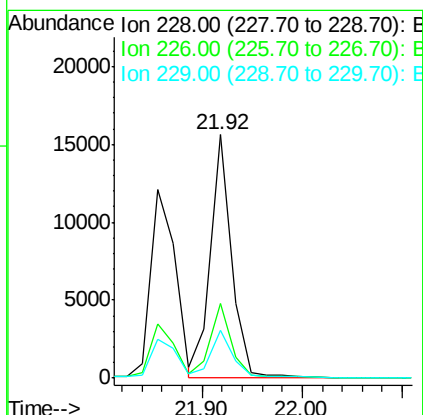
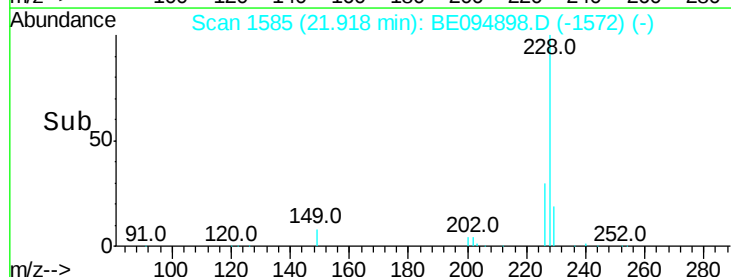
229 19.4 40.0 60.0#

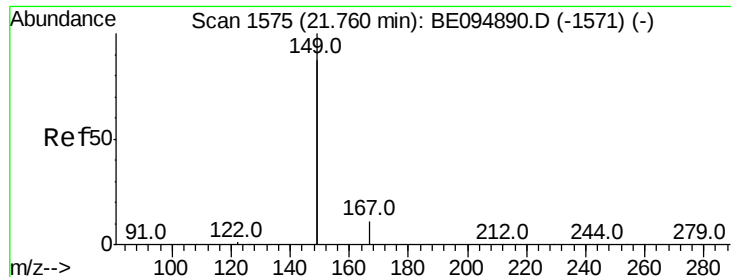


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.059 ng

RT: 21.76 min Scan# 1575

Delta R.T. 0.00 min

Lab File: BE094898.D

Acq: 1 Dec 2017 10:12

Instrument :

BNA_E

ClientSampleId :

PT-PAH-SOILDL

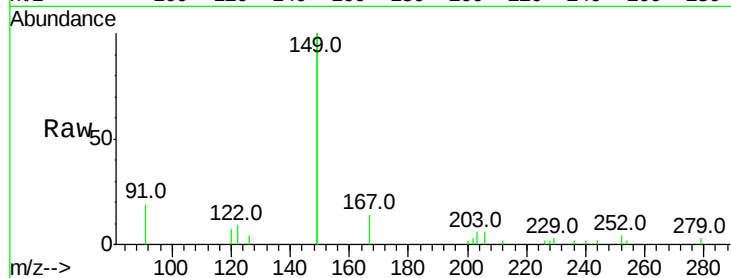
Tot Ion:149 Resp: 8901

Ion Ratio Lower Upper

149 100

167 6.4 5.4 8.0

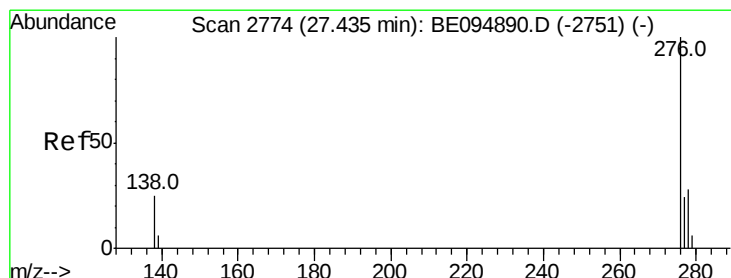
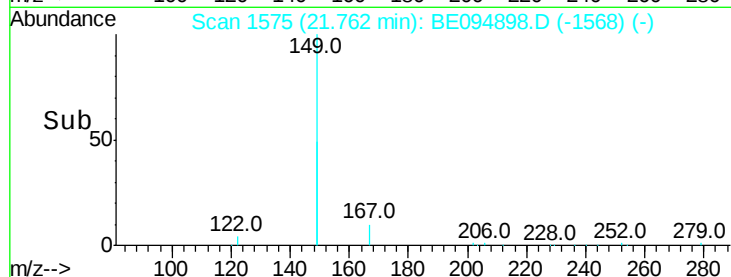
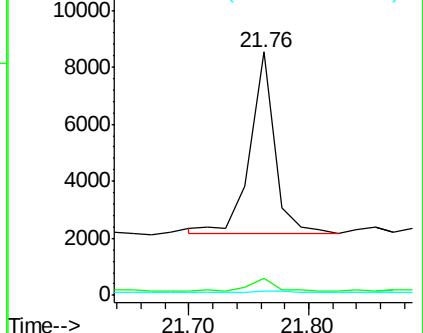
279 1.3 0.7 1.1#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#33

Indeno(1,2,3-cd)pyrene

Concen: 0.864 ng

RT: 27.44 min Scan# 2775

Delta R.T. 0.00 min

Lab File: BE094898.D

Acq: 1 Dec 2017 10:12

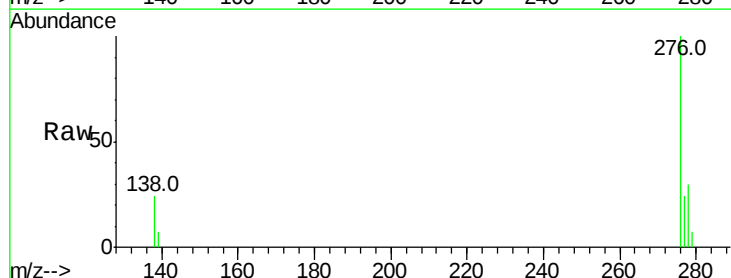
Tgt Ion:276 Resp: 71356

Ion Ratio Lower Upper

276 100

138 26.7 22.5 33.7

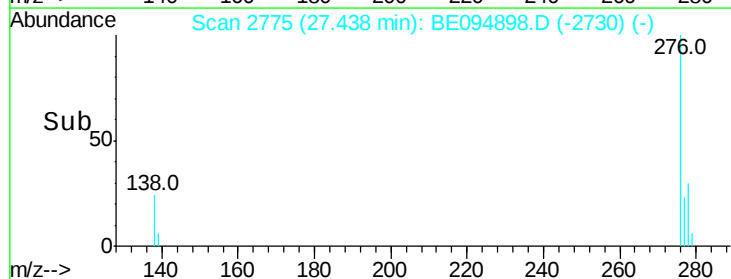
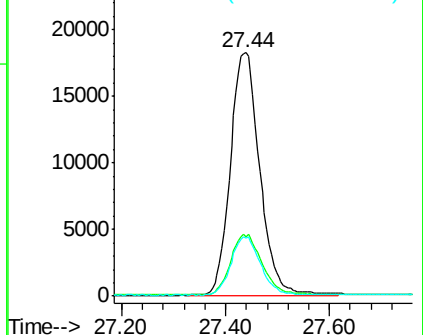
277 24.2 19.9 29.9

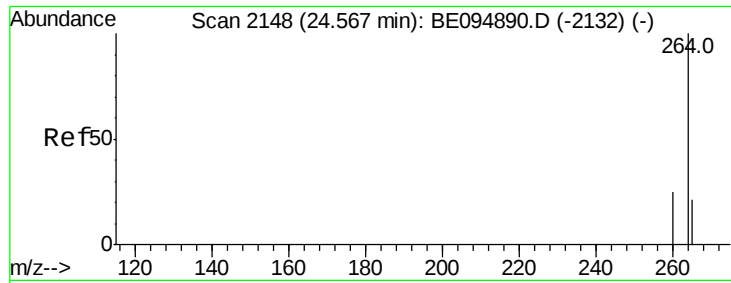


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

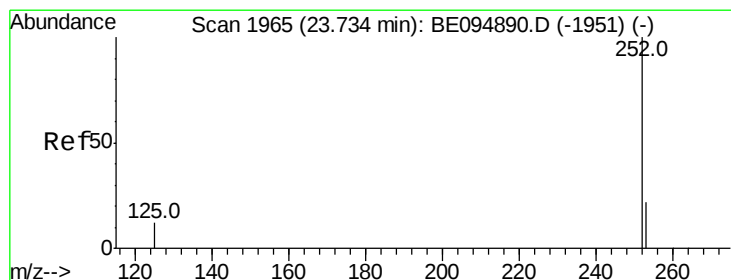
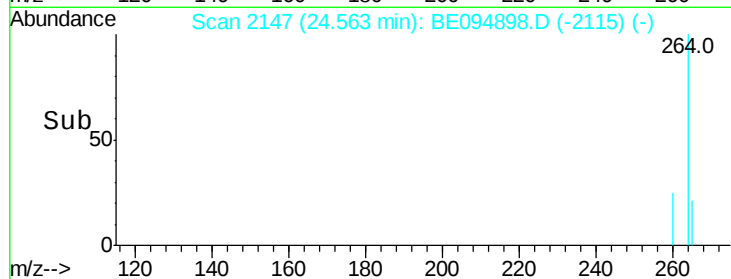
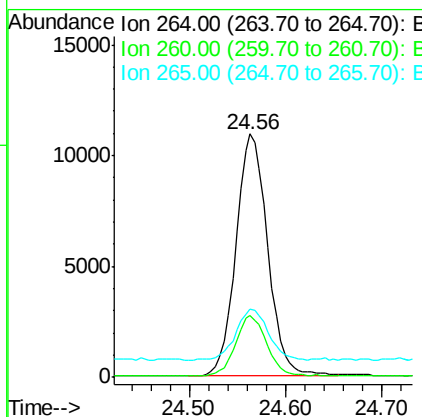
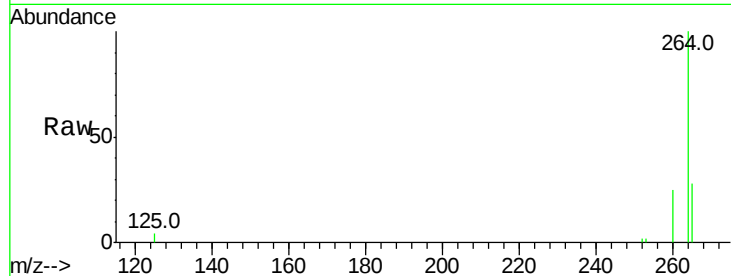




#34
 Pervlene-d12
 Concen: 0.400 ng
 RT: 24.56 min Scan# 2147
 Delta R.T. -0.00 min
 Lab File: BE094898.D
 Acq: 1 Dec 2017 10:12

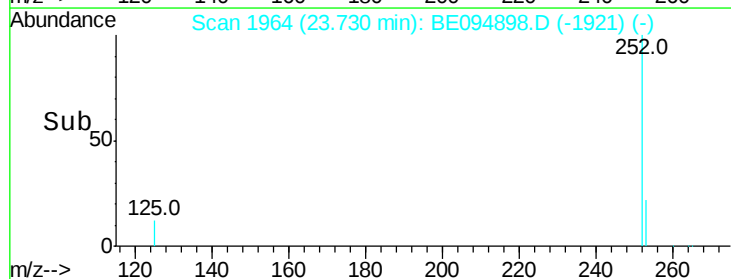
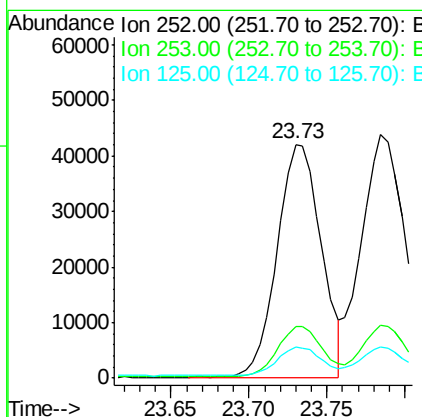
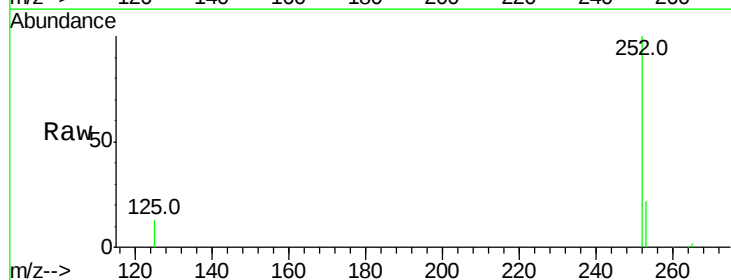
Instrument :
 BNA_E
 ClientSampleId :
 PT-PAH-SOILDL

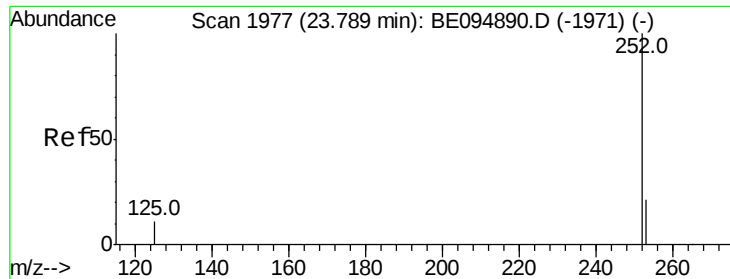
Tot Ion:264 Resp: 24849
 Ion Ratio Lower Upper
 264 100
 260 25.2 20.5 30.7
 265 28.0 22.8 34.2



#35
 Benzo(b)fluoranthene
 Concen: 0.903 ng
 RT: 23.73 min Scan# 1964
 Delta R.T. -0.00 min
 Lab File: BE094898.D
 Acq: 1 Dec 2017 10:12

Tgt Ion:252 Resp: 81930
 Ion Ratio Lower Upper
 252 100
 253 22.3 48.0 72.0#
 125 13.3 56.0 84.0#





#36

Benzo(k)fluoranthene

Concen: 0.943 ng

RT: 23.78 min Scan# 1976

Delta R.T. -0.00 min

Lab File: BE094898.D

Acq: 1 Dec 2017 10:12

Instrument :

BNA_E

ClientSampleId :

PT-PAH-SOILDL

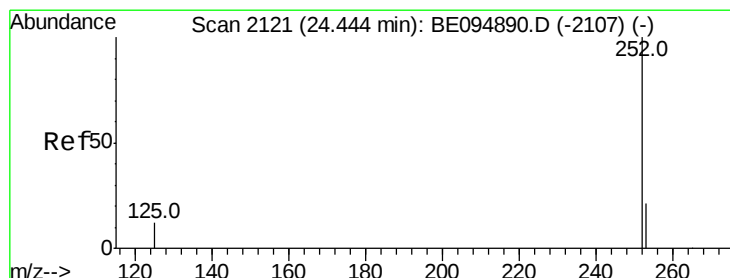
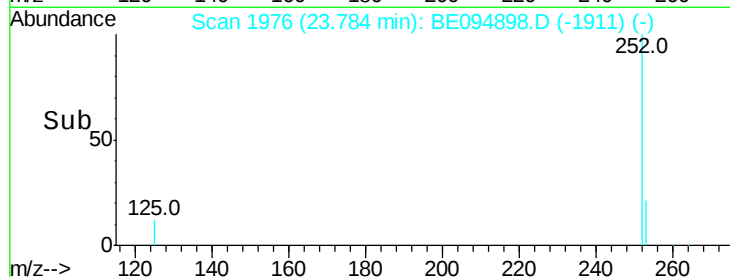
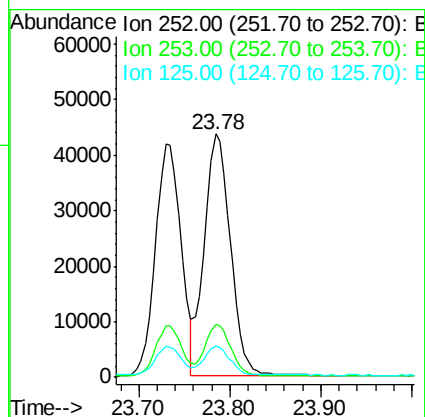
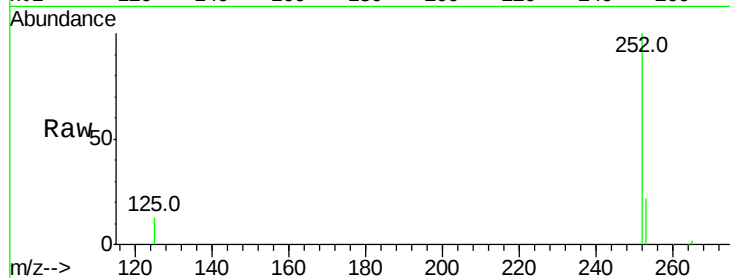
Tot Ion:252 Resp: 87249

Ion Ratio Lower Upper

252 100

253 21.9 48.0 72.0#

125 12.8 56.0 84.0#



#37

Benzo(a)pyrene

Concen: 0.291 ng

RT: 24.44 min Scan# 2120

Delta R.T. -0.00 min

Lab File: BE094898.D

Acq: 1 Dec 2017 10:12

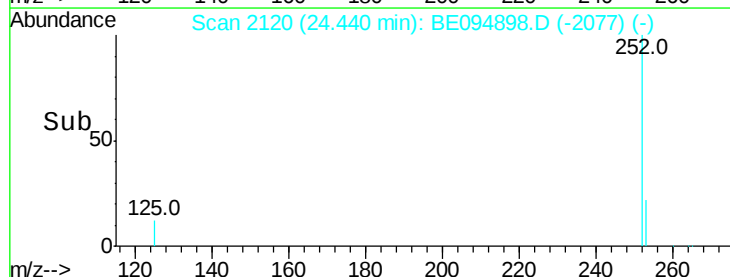
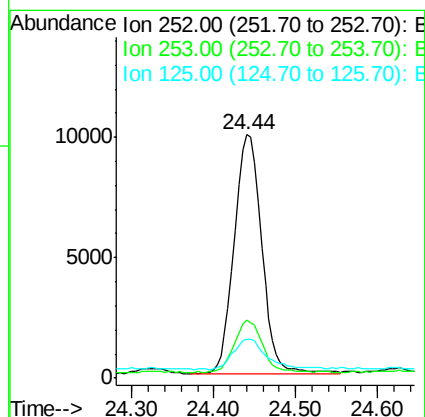
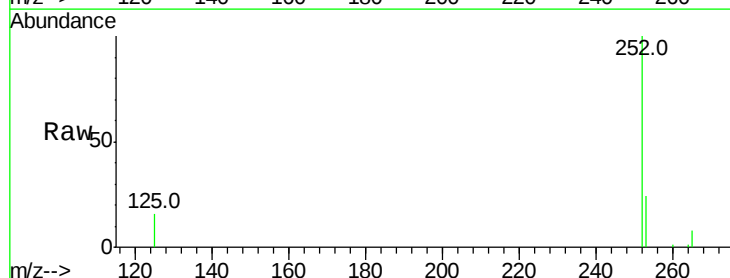
Tgt Ion:252 Resp: 23131

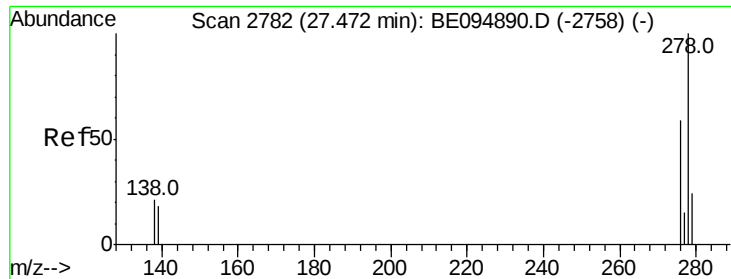
Ion Ratio Lower Upper

252 100

253 23.6 52.0 78.0#

125 15.8 68.0 102.0#





#38

Dibenzo(a,h)anthracene

Concen: 0.559 ng

RT: 27.47 min Scan# 2781

Delta R.T. -0.01 min

Lab File: BE094898.D

Acq: 1 Dec 2017 10:12

Instrument :

BNA_E

ClientSampleId :

PT-PAH-SOILDL

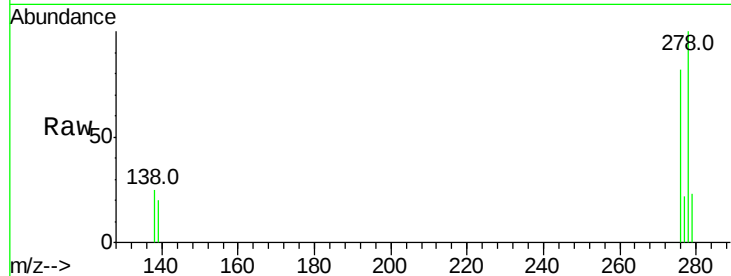
Tot Ion:278 Resp: 41044

Ion Ratio Lower Upper

278 100

139 19.8 56.0 84.0#

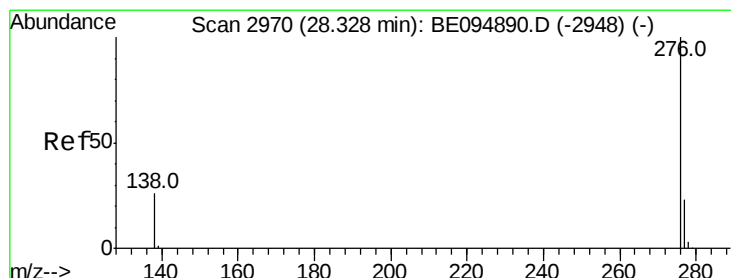
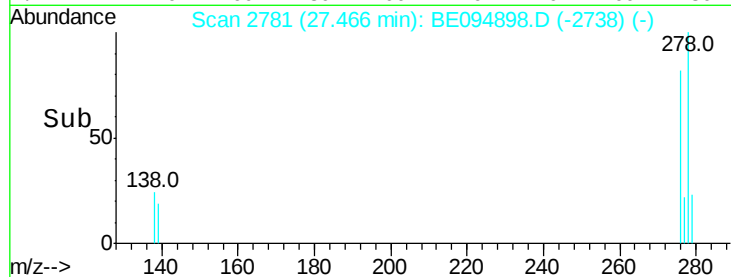
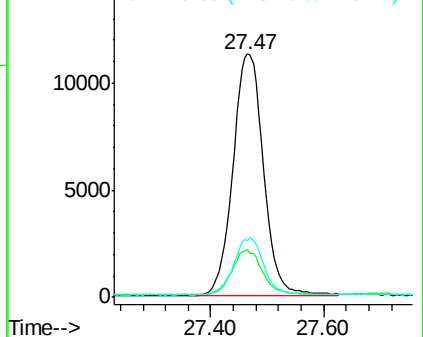
279 23.4 52.0 78.0#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#39

Benzo(g,h,i)perylene

Concen: 0.557 ng

RT: 28.32 min Scan# 2969

Delta R.T. -0.01 min

Lab File: BE094898.D

Acq: 1 Dec 2017 10:12

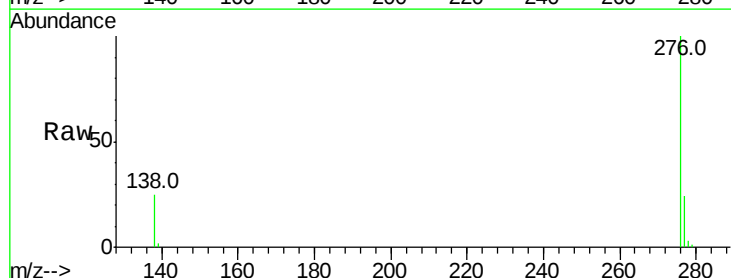
Tgt Ion:276 Resp: 40886

Ion Ratio Lower Upper

276 100

277 24.4 52.0 78.0#

138 24.7 44.0 66.0#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

