

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE111218\
 Data File : BE098190.D
 Acq On : 12 Nov 2018 14:50
 Operator : SJ/JU
 Sample : J5807-14
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PT-PAH-SOIL

Quant Time: Nov 12 17:11:50 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE111218.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Nov 12 13:32:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.86	152	1108	0.40	ng	0.00
7) Naphthalene-d8	10.67	136	5507	0.40	ng	0.00
13) Acenaphthene-d10	14.53	164	3665	0.40	ng	0.00
19) Phenanthrene-d10	17.28	188	8582	0.40	ng	0.00
27) Chrysene-d12	21.46	240	9798	0.40	ng	0.00
34) Perylene-d12	24.01	264	9404	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.45	112	1214	0.39	ng	0.00
5) Phenol-d6	7.04	99	1997	0.40	ng	0.00
8) Nitrobenzene-d5	9.02	82	2020	0.37	ng	0.00
11) 2-Methylnaphthalene-d10	12.27	152	3368	0.35	ng	0.00
14) 2,4,6-Tribromophenol	16.02	330	568	0.36	ng	0.00
15) 2-Fluorobiphenyl	13.15	172	5254	0.34	ng	0.00
25) Fluoranthene-d10	19.31	212	42467	0.40	ng	0.00
29) Terphenyl-d14	19.91	244	8549	0.38	ng	0.00

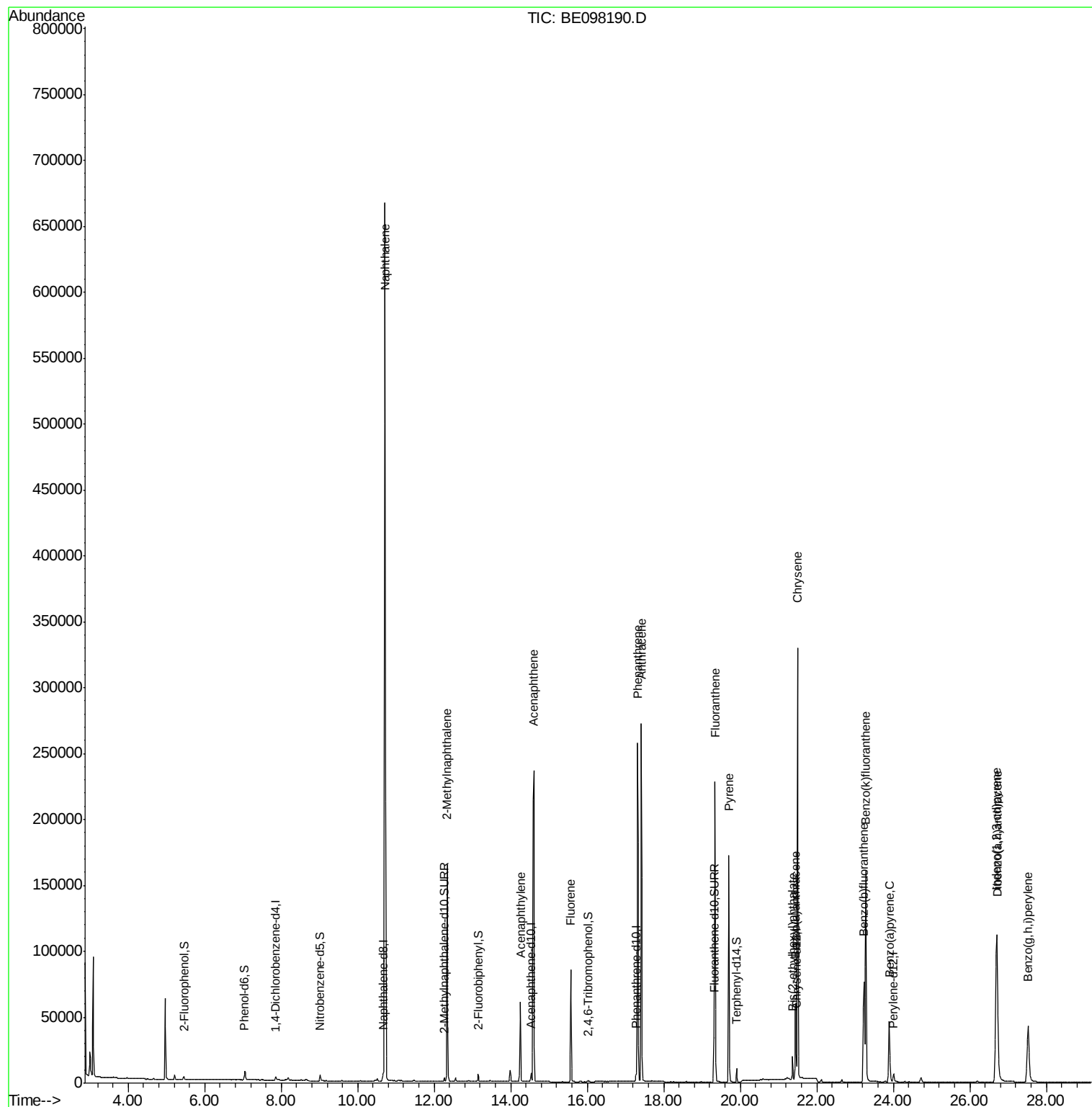
Target Compounds					Qvalue	
9) Naphthalene	10.72	128	1079092	19.268	ng	99
12) 2-Methylnaphthalene	12.34	142	104777	10.785	ng	96
16) Acenaphthylene	14.25	152	73898	4.398	ng	100
17) Acenaphthene	14.60	154	140815	13.724	ng	99
18) Fluorene	15.57	166	59185	4.505	ng	99
23) Phenanthrene	17.32	178	270494	12.654	ng	100
24) Anthracene	17.41	178	275249	13.821	ng	99
26) Fluoranthene	19.34	202	214254	8.095	ng	99
28) Pyrene	19.70	202	153446	5.691	ng	100
30) Benzo(a)anthracene	21.45	228	60117	2.159	ng	99
31) Chrysene	21.50	228	276600	9.783	ng	99
32) Bis(2-ethylhexyl)phthalate	21.37	149	18944	0.328	ng	99
33) Indeno(1,2,3-cd)pyrene	26.70	276	243819	9.404	ng	# 94
35) Benzo(b)fluoranthene	23.23	252	108081	4.051	ng	# 95
36) Benzo(k)fluoranthene	23.28	252	239788	8.518	ng	97
37) Benzo(a)pyrene	23.89	252	80752	3.156	ng	98
38) Dibenzo(a,h)anthracene	26.72	278	82520	3.786	ng	# 89
39) Benzo(a,h,i)perylene	27.53	276	116600	5.125	ng	97

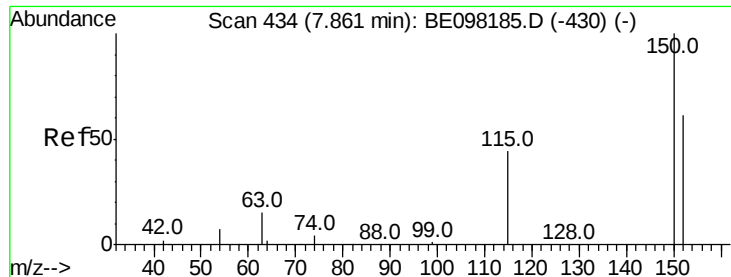
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.86 min Scan# 434

Delta R.T. -0.00 min

Lab File: BE098190.D

Acq: 12 Nov 2018 14:50

Instrument :

BNA_E

ClientSampled :

PT-PAH-SOIL

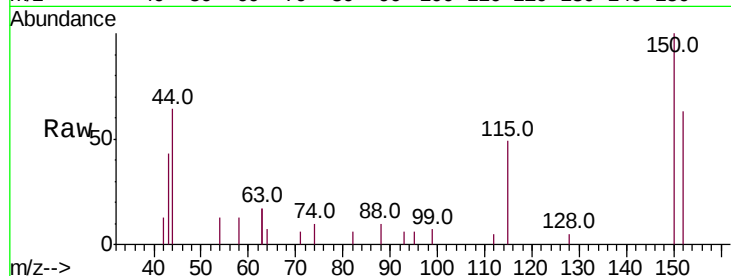
Tot Ion:152 Resp: 1108

Ion Ratio Lower Upper

152 100

150 159.6 127.5 191.3

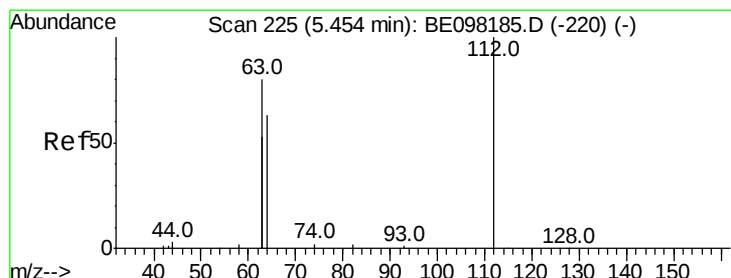
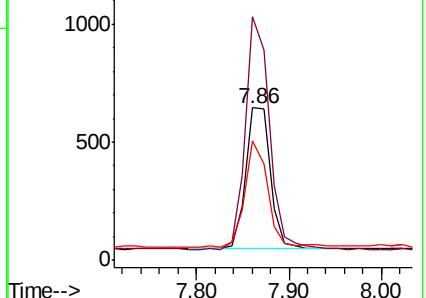
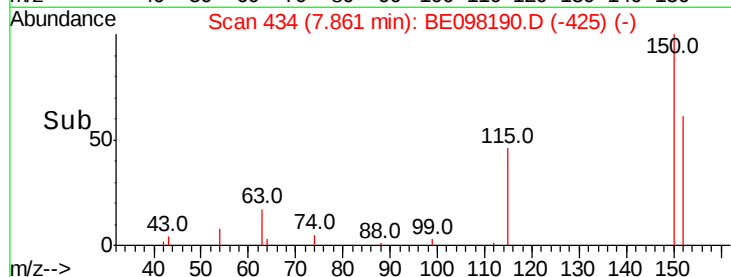
115 78.0 60.3 90.5



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: 0.388 ng

RT: 5.45 min Scan# 225

Delta R.T. -0.00 min

Lab File: BE098190.D

Acq: 12 Nov 2018 14:50

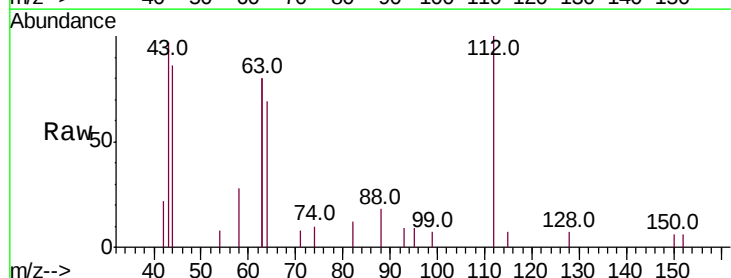
Tgt Ion:112 Resp: 1214

Ion Ratio Lower Upper

112 100

64 74.2 61.7 92.5

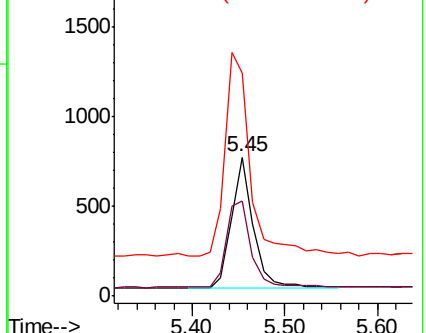
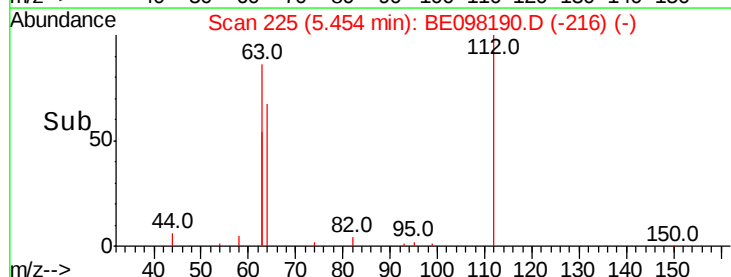
63 181.2 136.2 204.2

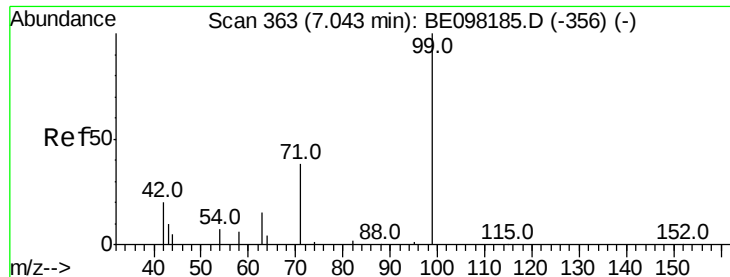


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.397 ng

RT: 7.04 min Scan# 363

Delta R.T. -0.00 min

Lab File: BE098190.D

Acq: 12 Nov 2018 14:50

Instrument :

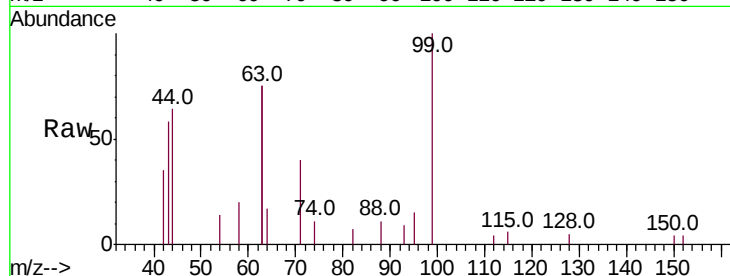
BNA_E

ClientSampleId :

PT-PAH-SOIL

Tot Ion: 99 Resp: 1997

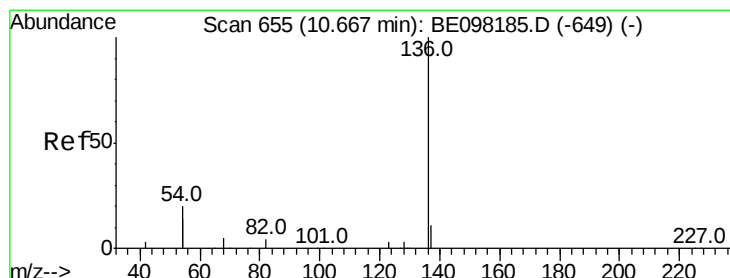
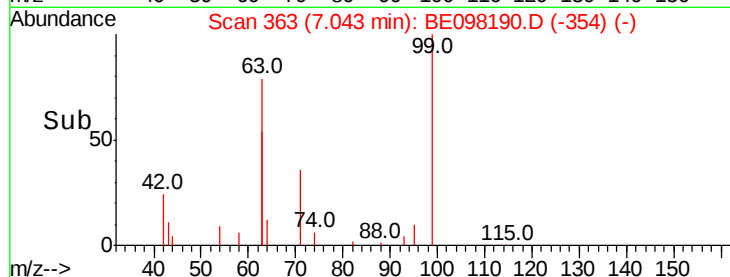
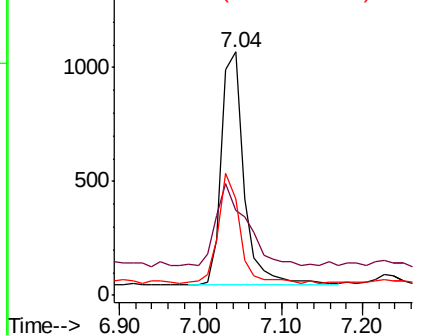
Ion	Ratio	Lower	Upper
99	100		
42	46.4	27.1	40.7#
71	45.7	37.0	55.6



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: 10.67 min Scan# 654

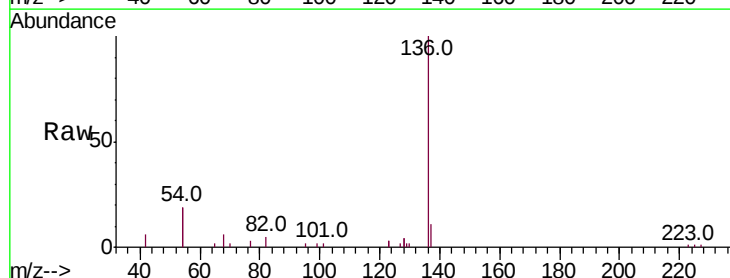
Delta R.T. -0.00 min

Lab File: BE098190.D

Acq: 12 Nov 2018 14:50

Tgt Ion: 136 Resp: 5507

Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.5	14.3
54	38.5	31.3	46.9
68	5.9	4.8	7.2

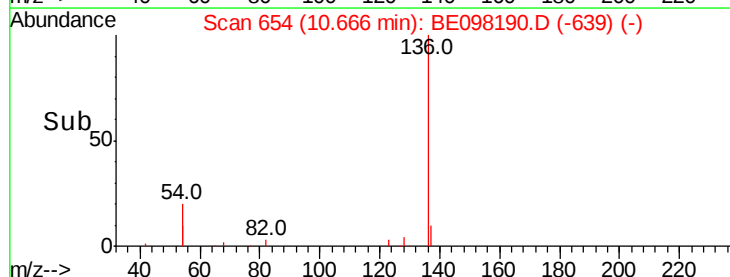
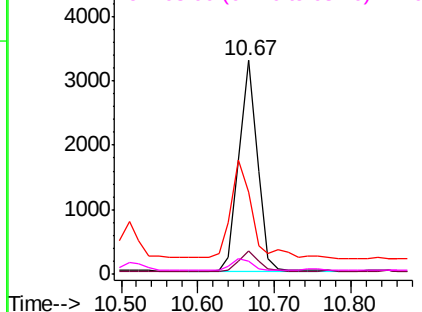


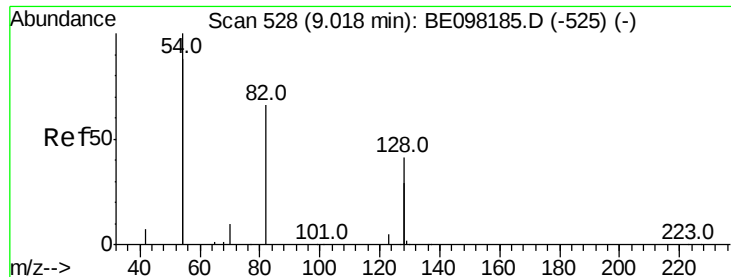
Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.368 ng

RT: 9.02 min Scan# 527

Delta R.T. -0.00 min

Lab File: BE098190.D

Acq: 12 Nov 2018 14:50

Instrument :

BNA_E

ClientSampleId :

PT-PAH-SOIL

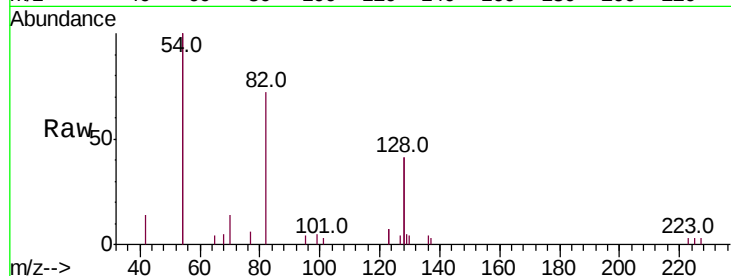
Tot Ion: 82 Resp: 2020

Ion Ratio Lower Upper

82 100

128 115.7 96.1 144.1

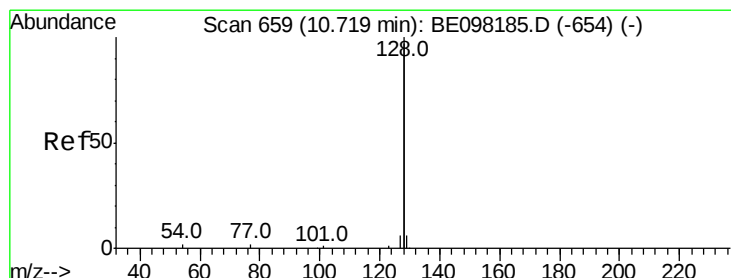
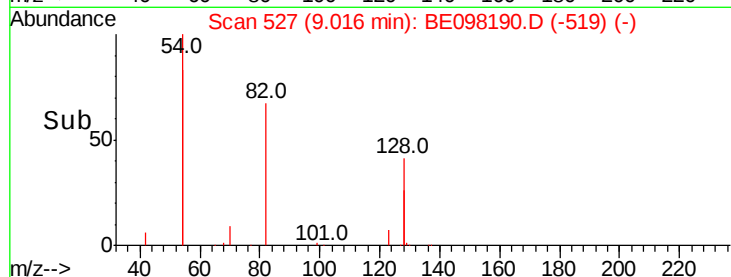
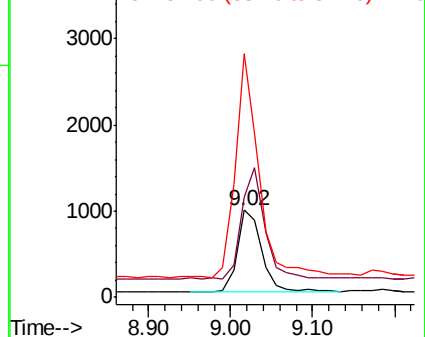
54 279.5 232.0 348.0



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#9

Naphthalene

Concen: 19.268 ng

RT: 10.72 min Scan# 658

Delta R.T. -0.00 min

Lab File: BE098190.D

Acq: 12 Nov 2018 14:50

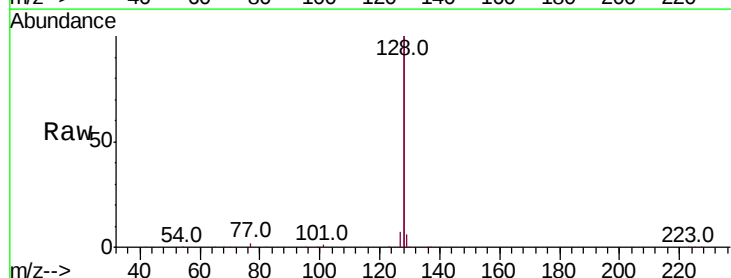
Tgt Ion:128 Resp: 1079092

Ion Ratio Lower Upper

128 100

129 2.8 2.6 4.0

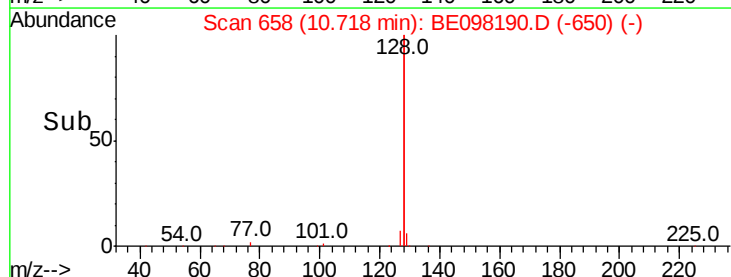
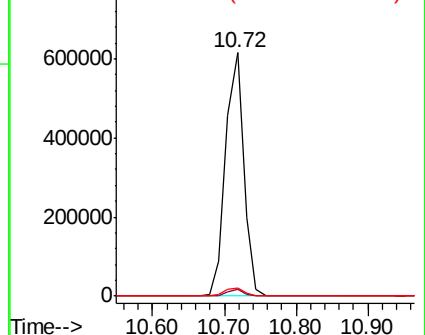
127 3.3 2.8 4.2

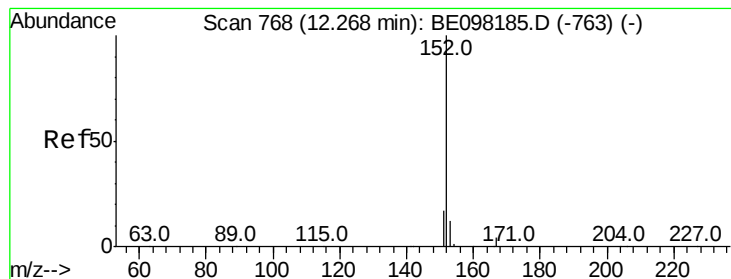


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

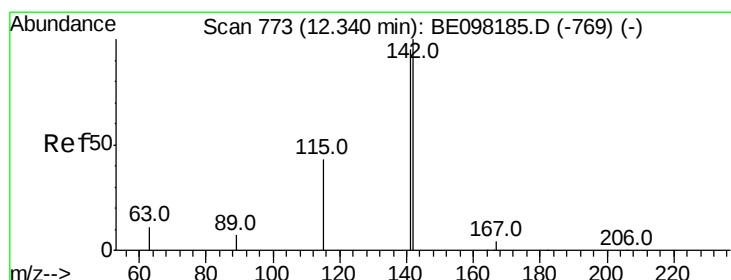
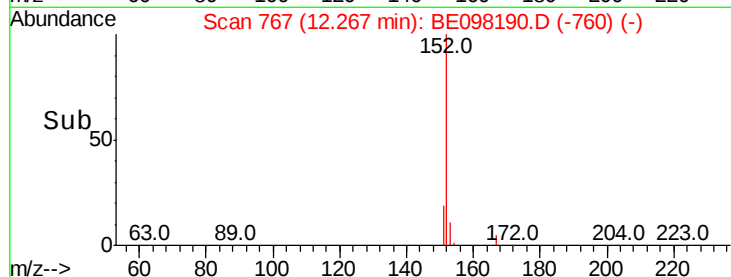
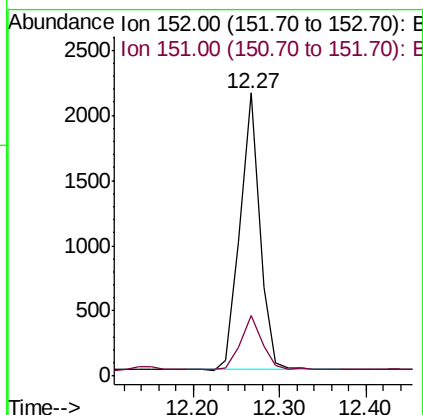
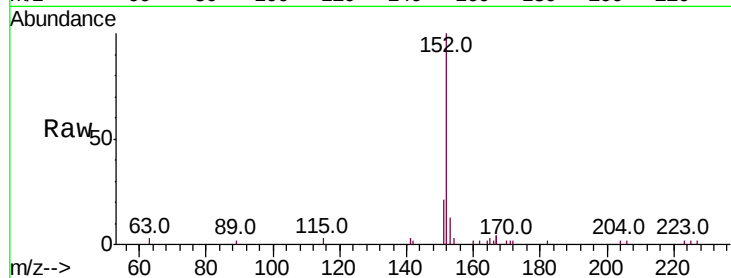




#11
 2-Methylnaphthalene-d10
 Concen: 0.349 ng
 RT: 12.27 min Scan# 767
 Delta R.T. -0.00 min
 Lab File: BE098190.D
 Acq: 12 Nov 2018 14:50

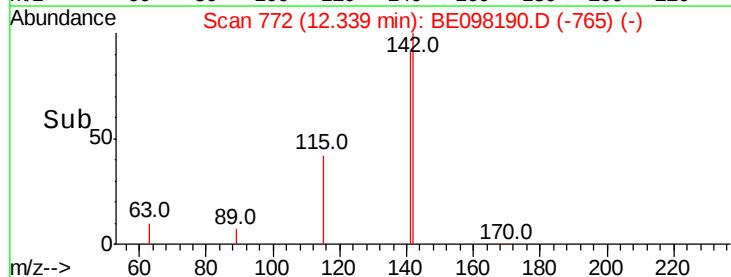
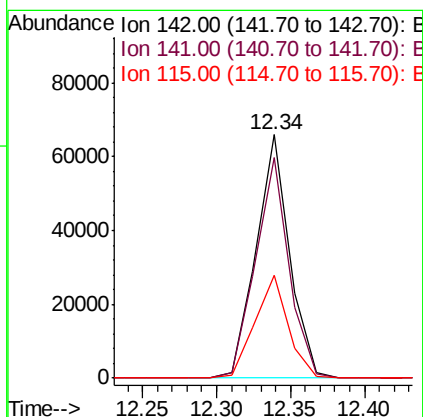
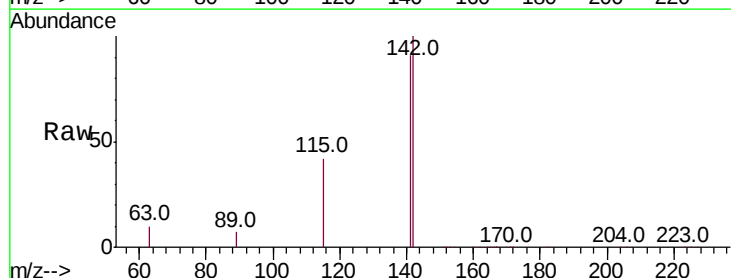
Instrument :
 BNA_E
 ClientSampleId :
 PT-PAH-SOIL

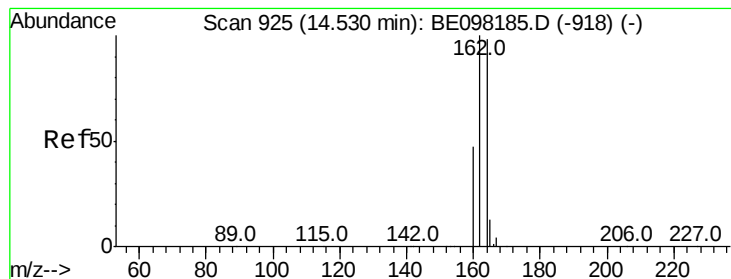
Tot Ion:152 Resp: 3368
 Ion Ratio Lower Upper
 152 100
 151 20.7 15.4 23.2



#12
 2-Methylnaphthalene
 Concen: 10.785 ng
 RT: 12.34 min Scan# 772
 Delta R.T. -0.00 min
 Lab File: BE098190.D
 Acq: 12 Nov 2018 14:50

Tgt Ion:142 Resp: 104777
 Ion Ratio Lower Upper
 142 100
 141 90.7 76.3 114.5
 115 42.5 35.8 53.8





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.53 min Scan# 924

Delta R.T. -0.00 min

Lab File: BE098190.D

Acq: 12 Nov 2018 14:50

Instrument :

BNA_E

ClientSampleId :

PT-PAH-SOIL

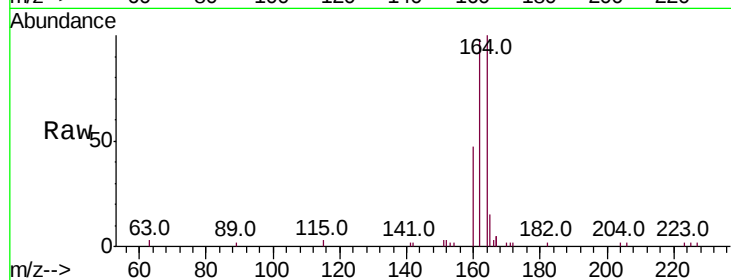
Tot Ion:164 Resp: 3665

Ion Ratio Lower Upper

164 100

162 98.0 81.8 122.6

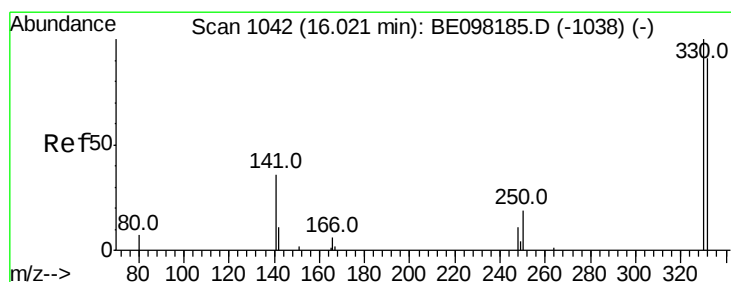
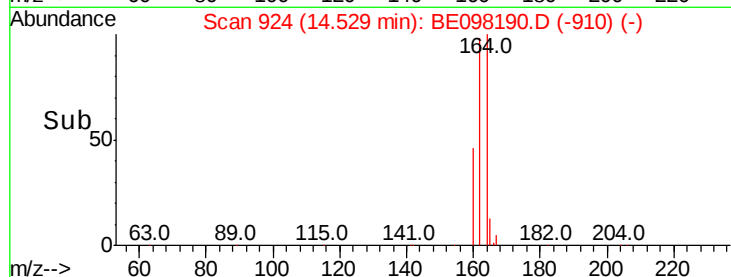
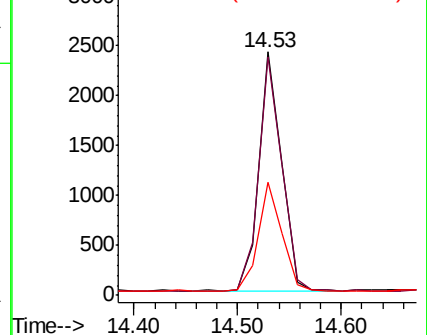
160 46.7 39.4 59.0



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#14

2,4,6-Tribromophenol

Concen: 0.355 ng

RT: 16.02 min Scan# 1041

Delta R.T. 0.00 min

Lab File: BE098190.D

Acq: 12 Nov 2018 14:50

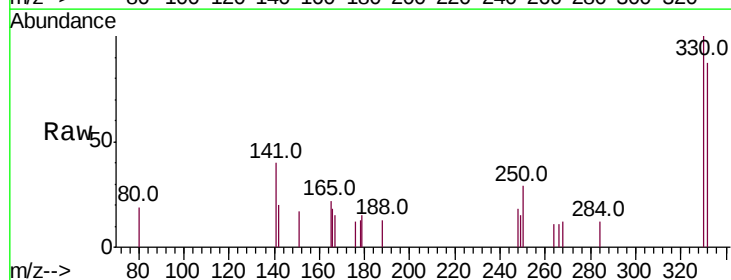
Tgt Ion:330 Resp: 568

Ion Ratio Lower Upper

330 100

332 89.8 77.7 116.5

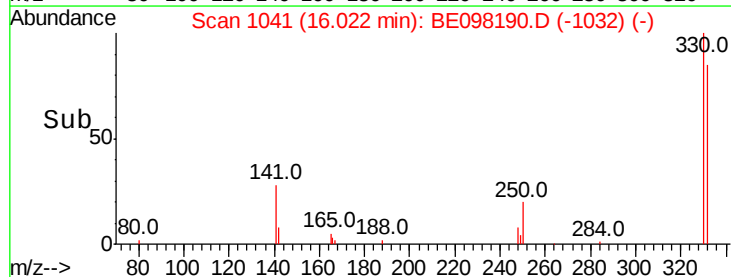
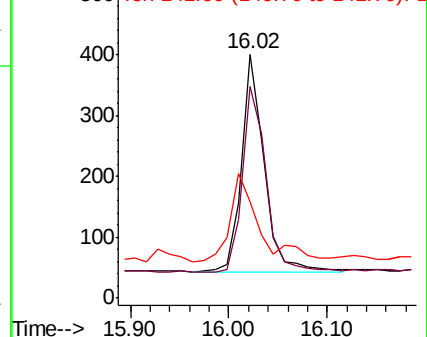
141 51.9 33.6 50.4#

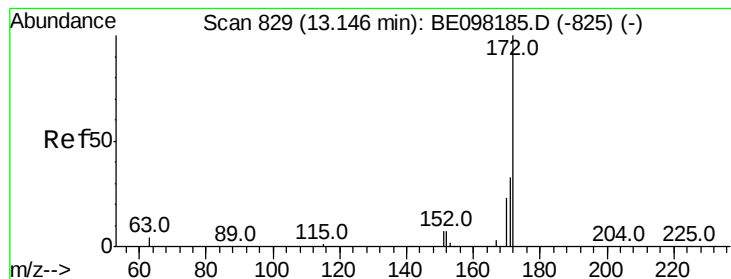


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#15

2-Fluorobiphenyl

Concen: 0.342 ng

RT: 13.15 min Scan# 828

Delta R.T. -0.00 min

Lab File: BE098190.D

Acq: 12 Nov 2018 14:50

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ClientSampleId :

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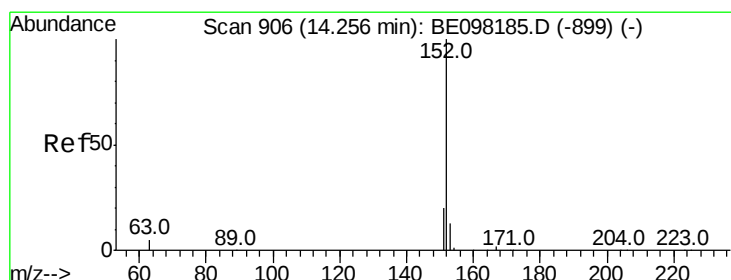
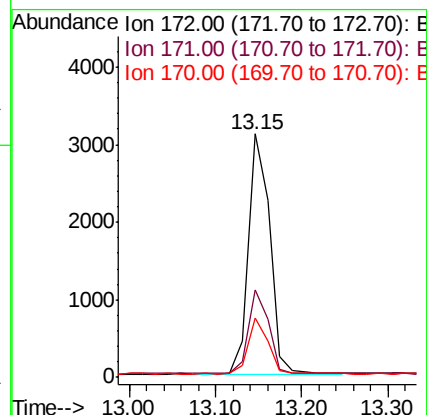
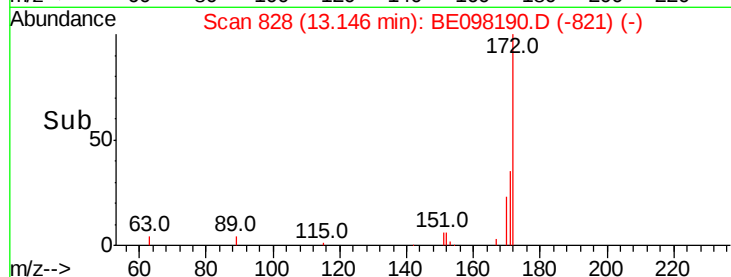
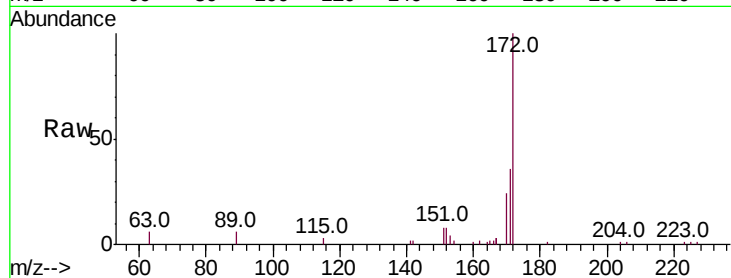
Tot Ion:172 Resp: 5254

Ion Ratio Lower Upper

172 100

171 35.7 27.3 40.9

170 24.4 19.4 29.0



#16

Acenaphthylene

Concen: 4.398 ng

RT: 14.25 min Scan# 905

Delta R.T. -0.00 min

Lab File: BE098190.D

Acq: 12 Nov 2018 14:50

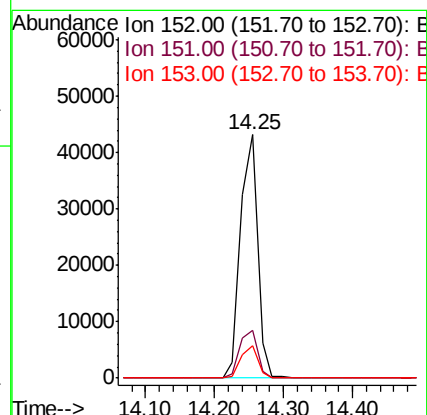
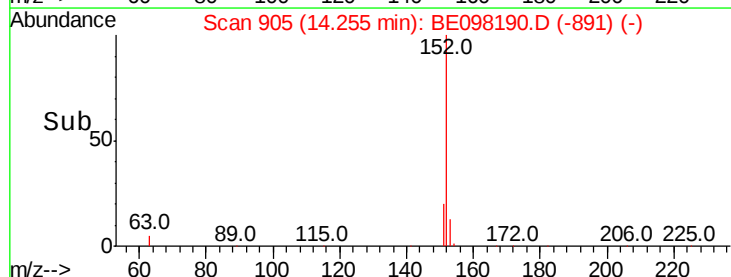
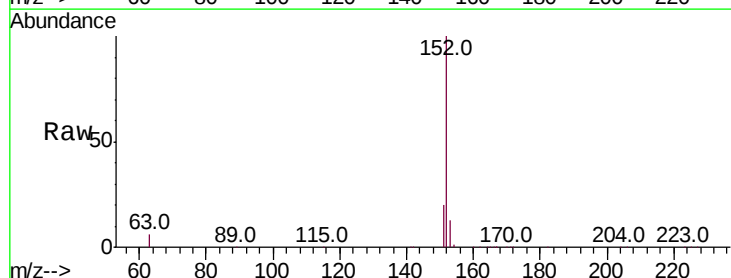
Tgt Ion:152 Resp: 73898

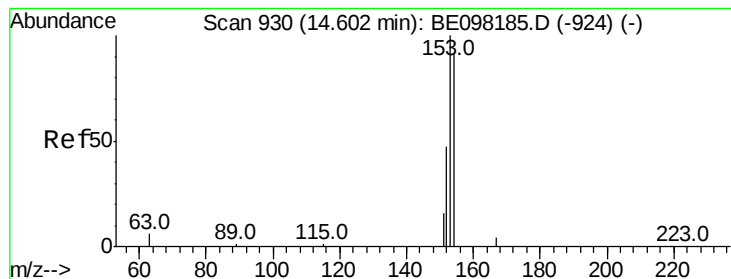
Ion Ratio Lower Upper

152 100

151 20.4 16.4 24.6

153 13.1 10.6 15.8





#17

Acenaphthene

Concen: 13.724 ng

RT: 14.60 min Scan# 929

Delta R.T. -0.00 min

Lab File: BE098190.D

Acq: 12 Nov 2018 14:50

Instrument :

BNA_E

ClientSampleId :

PT-PAH-SOIL

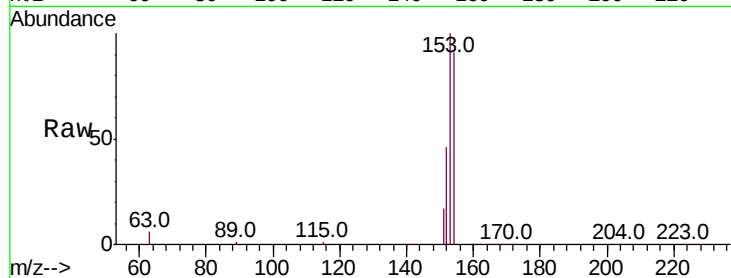
Tot Ion:154 Resp: 140815

Ion Ratio Lower Upper

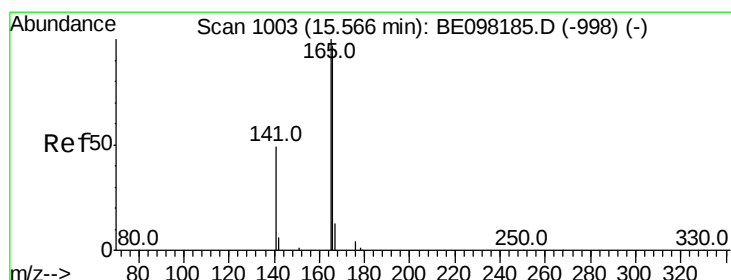
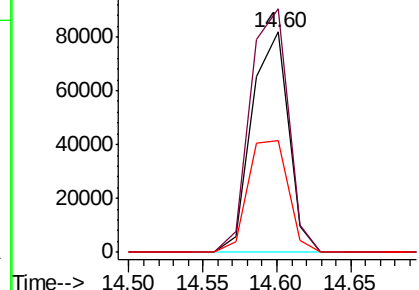
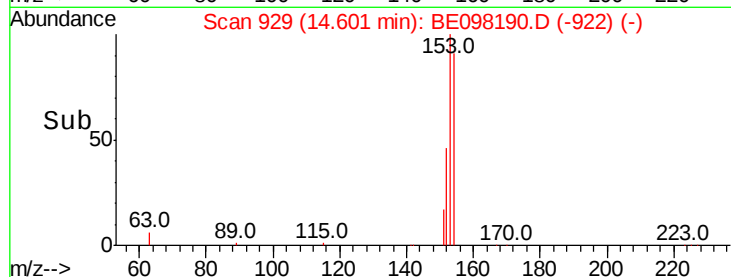
154 100

153 114.9 92.1 138.1

152 55.7 46.2 69.2



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: 4.505 ng

RT: 15.57 min Scan# 1002

Delta R.T. 0.00 min

Lab File: BE098190.D

Acq: 12 Nov 2018 14:50

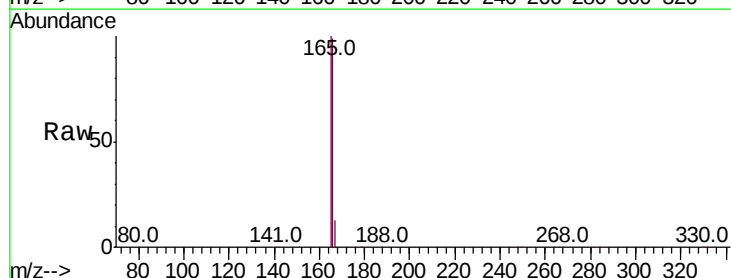
Tgt Ion:166 Resp: 59185

Ion Ratio Lower Upper

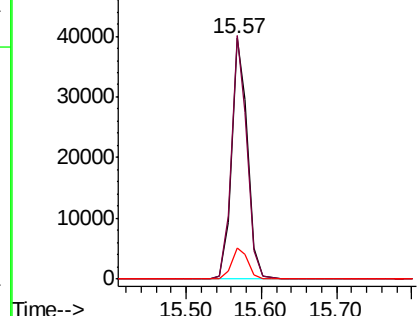
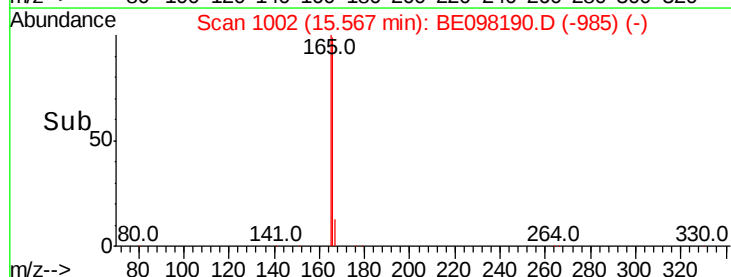
166 100

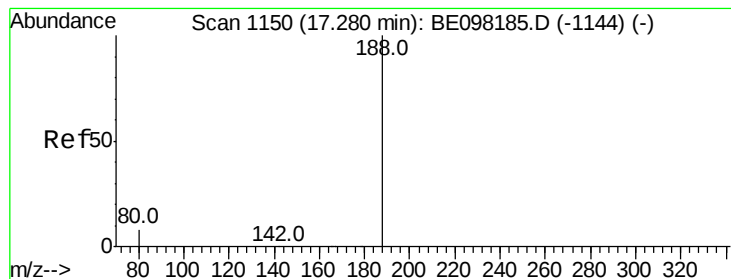
165 98.7 80.1 120.1

167 13.3 10.8 16.2



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: 17.28 min Scan# 1149

Delta R.T. 0.00 min

Lab File: BE098190.D

Acq: 12 Nov 2018 14:50

Instrument :

BNA_E

ClientSampleId :

PT-PAH-SOIL

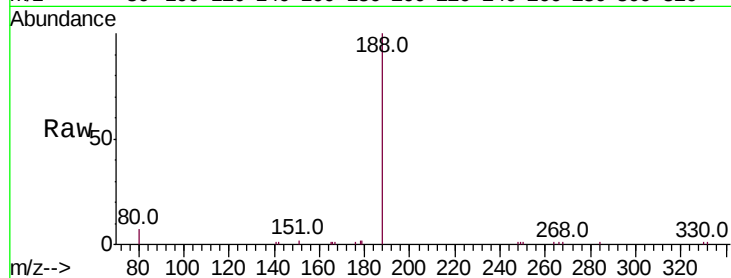
Tot Ion:188 Resp: 8582

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

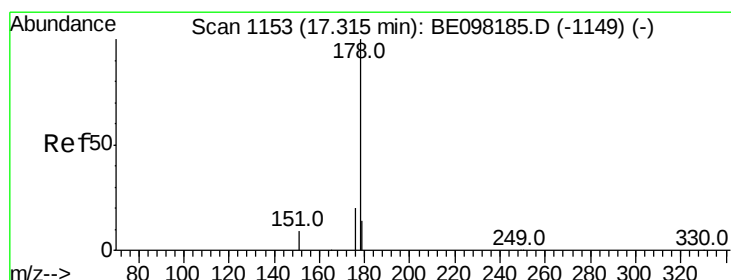
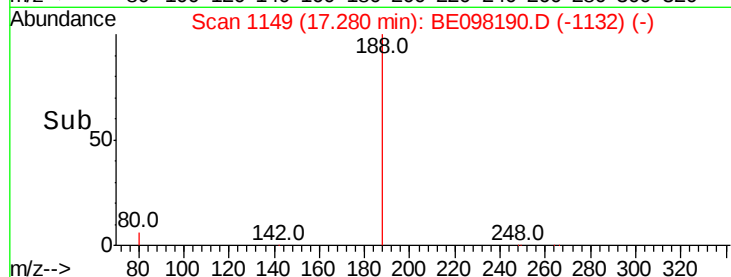
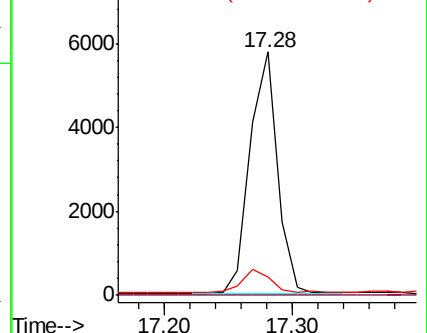
80 7.4 6.7 10.1



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: 12.654 ng

RT: 17.32 min Scan# 1152

Delta R.T. 0.00 min

Lab File: BE098190.D

Acq: 12 Nov 2018 14:50

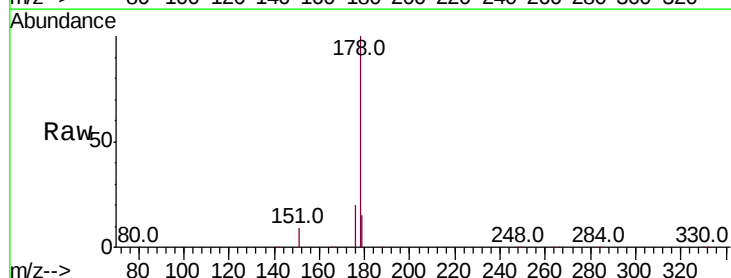
Tgt Ion:178 Resp: 270494

Ion Ratio Lower Upper

178 100

176 19.7 15.8 23.8

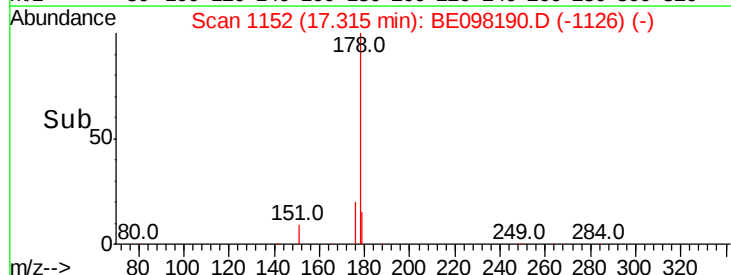
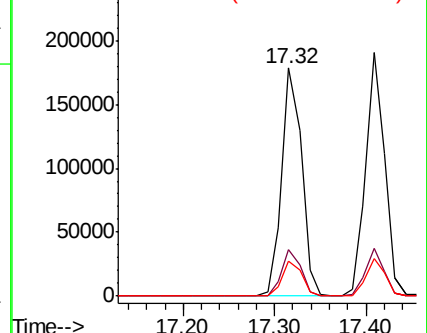
179 15.5 12.3 18.5

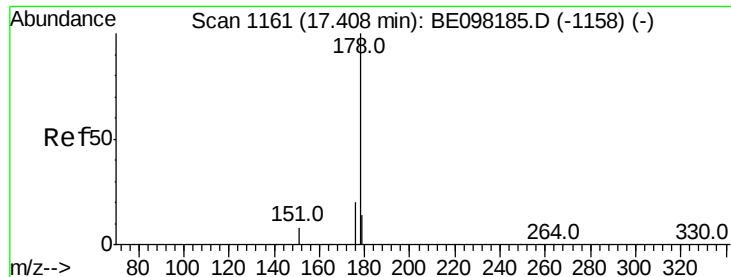


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Anthracene

Concen: 13.821 ng

RT: 17.41 min Scan# 1160

Delta R.T. 0.00 min

Lab File: BE098190.D

Acq: 12 Nov 2018 14:50

Instrument :

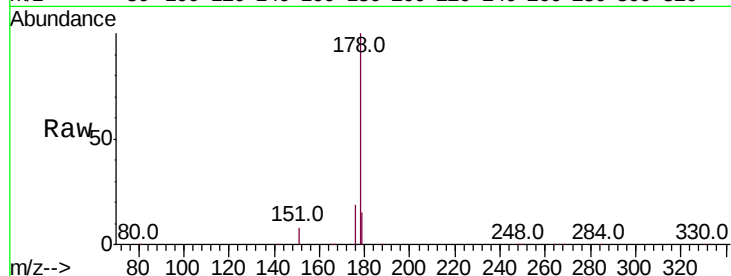
BNA_E

ClientSampleId :

PT-PAH-SOIL

Tot Ion:178 Resp: 275249

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.7	23.5
179	15.4	12.1	18.1

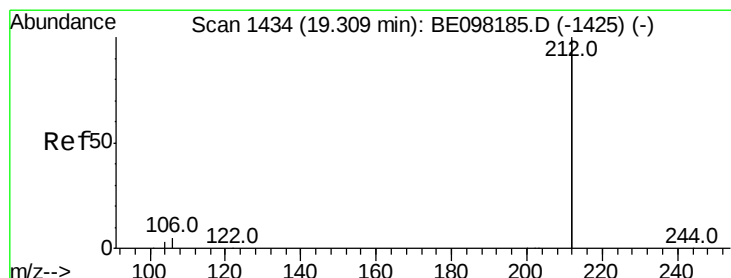
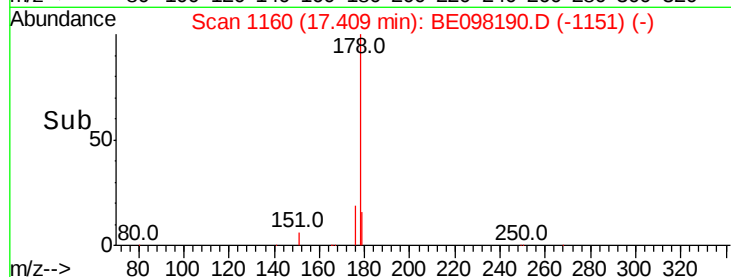
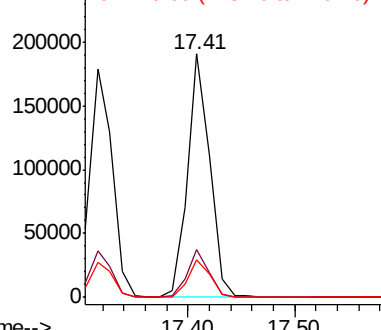


Abundance

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: 0.396 ng

RT: 19.31 min Scan# 1433

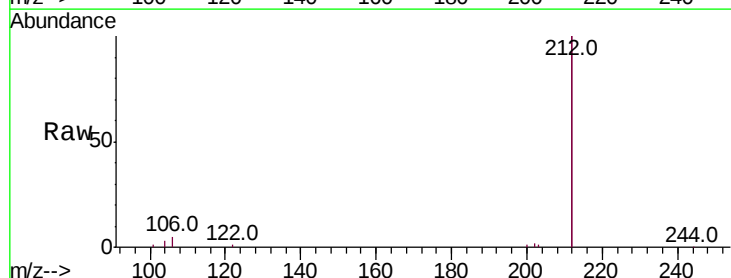
Delta R.T. -0.00 min

Lab File: BE098190.D

Acq: 12 Nov 2018 14:50

Tgt Ion:212 Resp: 42467

Ion	Ratio	Lower	Upper
212	100		
106	2.4	1.8	2.8
104	1.4	1.1	1.7

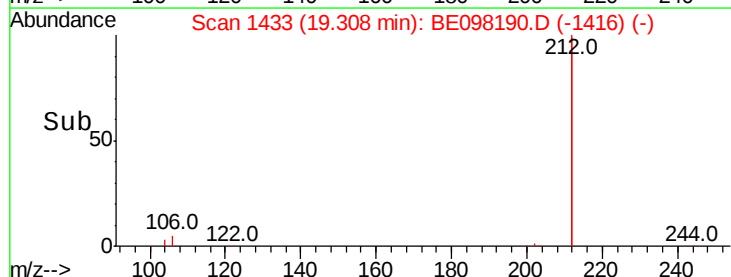
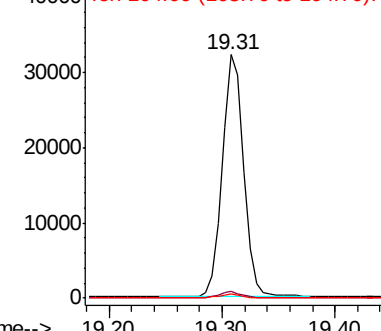


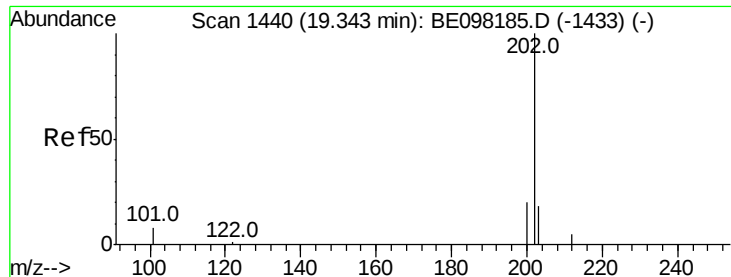
Abundance

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

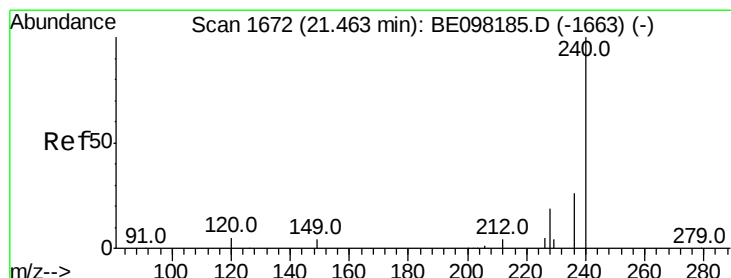
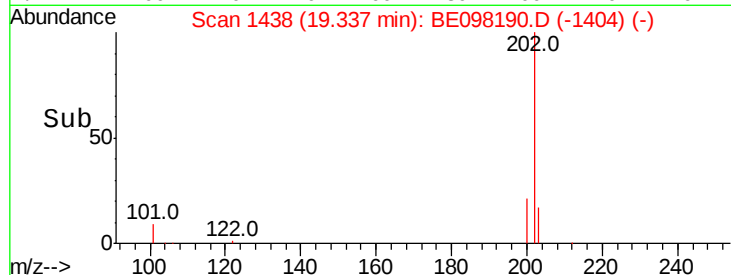
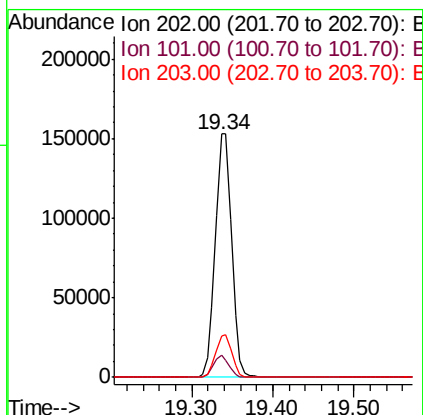
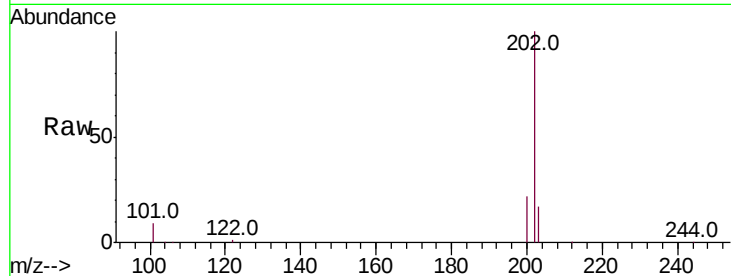




#26
 Fluoranthene
 Concen: 8.095 ng
 RT: 19.34 min Scan# 1438
 Delta R.T. -0.01 min
 Lab File: BE098190.D
 Acq: 12 Nov 2018 14:50

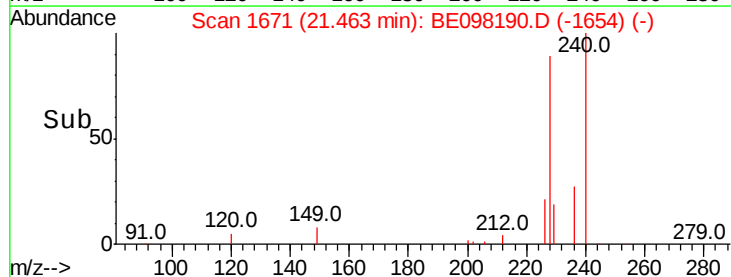
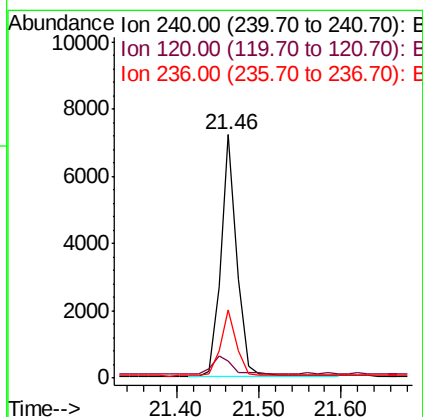
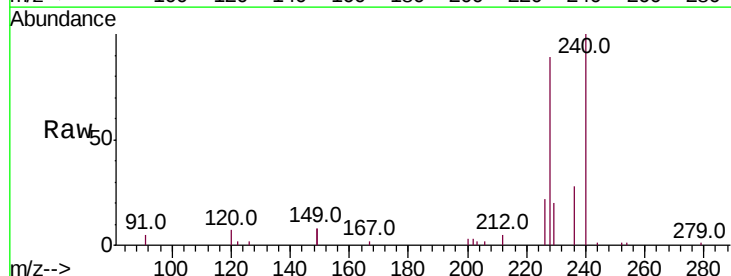
Instrument :
 BNA_E
 ClientSampleId :
 PT-PAH-SOIL

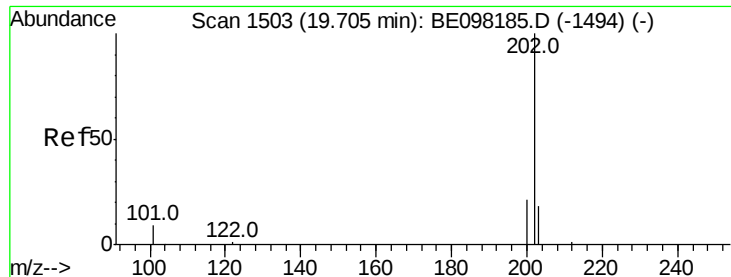
Tot Ion:202 Resp: 214254
 Ion Ratio Lower Upper
 202 100
 101 8.6 7.0 10.6
 203 17.3 13.7 20.5



#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.46 min Scan# 1671
 Delta R.T. -0.00 min
 Lab File: BE098190.D
 Acq: 12 Nov 2018 14:50

Tgt Ion:240 Resp: 9798
 Ion Ratio Lower Upper
 240 100
 120 6.8 4.8 7.2
 236 28.2 21.4 32.0

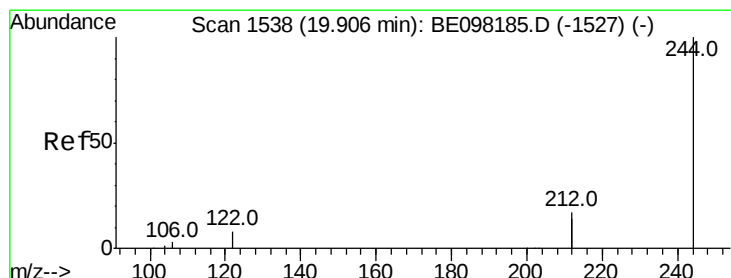
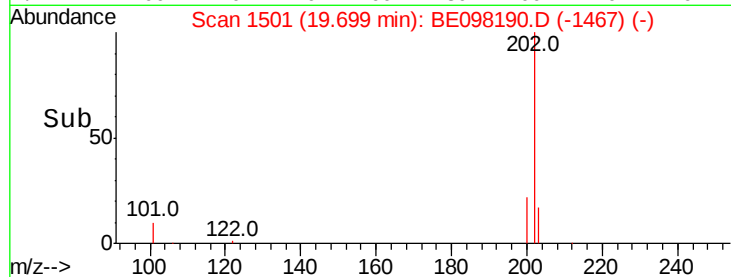
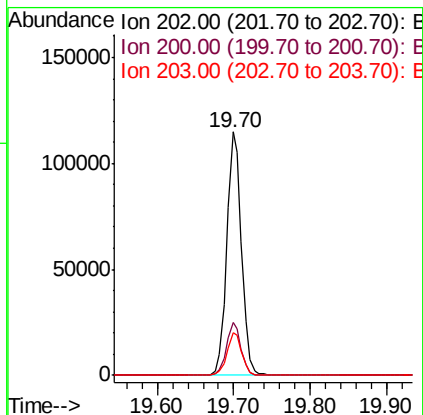
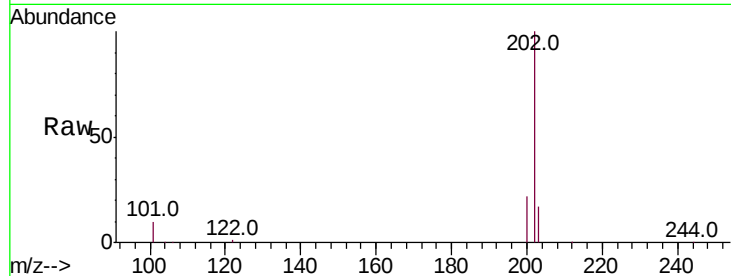




#28
Pvrene
Concen: 5.691 ng
RT: 19.70 min Scan# 1501
Delta R.T. -0.01 min
Lab File: BE098190.D
Acq: 12 Nov 2018 14:50

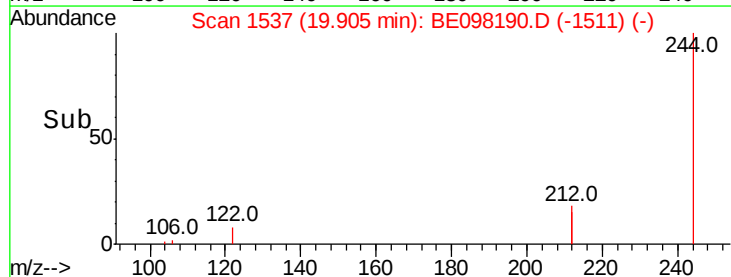
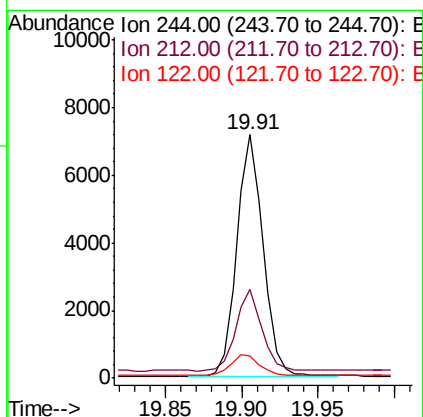
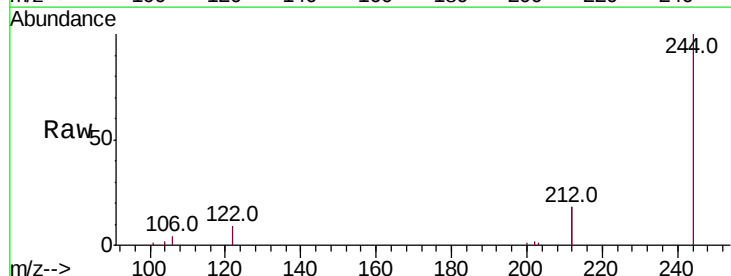
Instrument :
BNA_E
ClientSampleId :
PT-PAH-SOIL

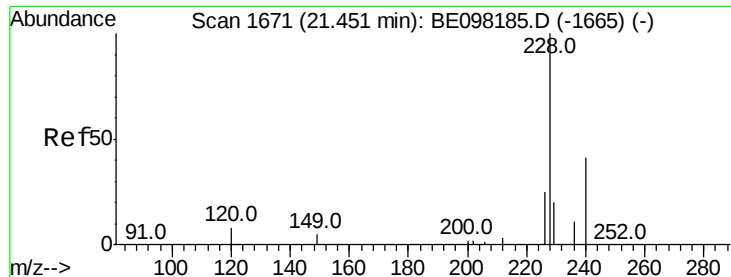
Tot Ion:202 Resp: 153446
Ion Ratio Lower Upper
202 100
200 21.5 17.2 25.8
203 17.5 14.2 21.4



#29
Terphenyl-d14
Concen: 0.384 ng
RT: 19.91 min Scan# 1537
Delta R.T. -0.00 min
Lab File: BE098190.D
Acq: 12 Nov 2018 14:50

Tgt Ion:244 Resp: 8549
Ion Ratio Lower Upper
244 100
212 36.5 26.8 40.2
122 9.2 7.0 10.6

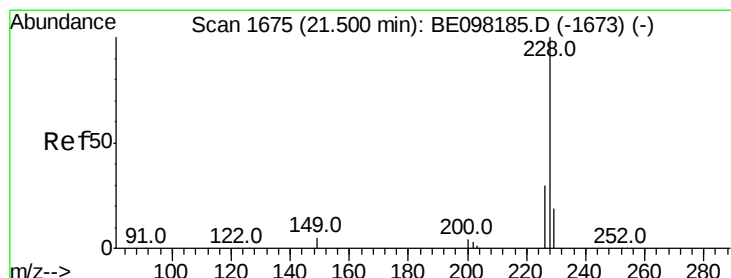
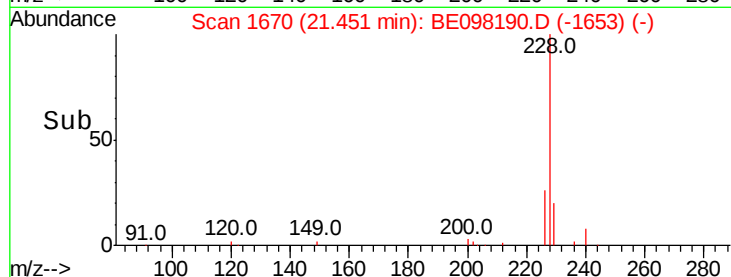
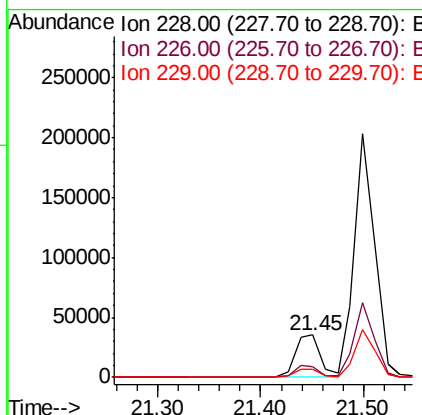
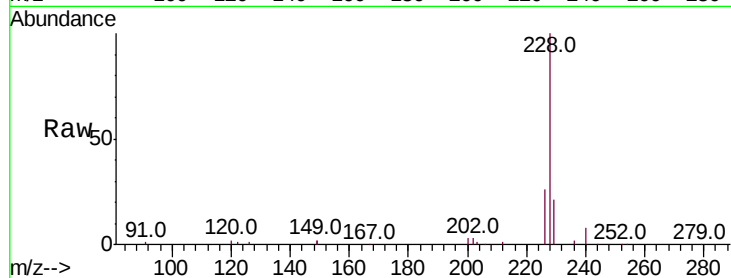




#30
Benzo(a)anthracene
Concen: 2.159 ng
RT: 21.45 min Scan# 1670
Delta R.T. -0.00 min
Lab File: BE098190.D
Acq: 12 Nov 2018 14:50

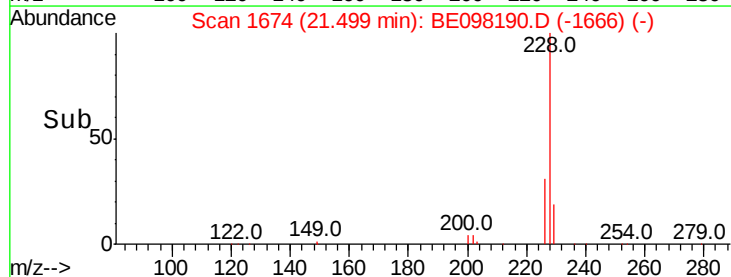
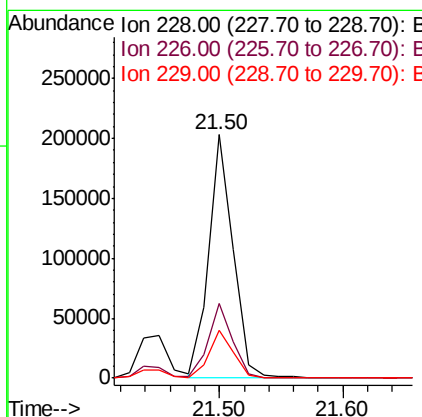
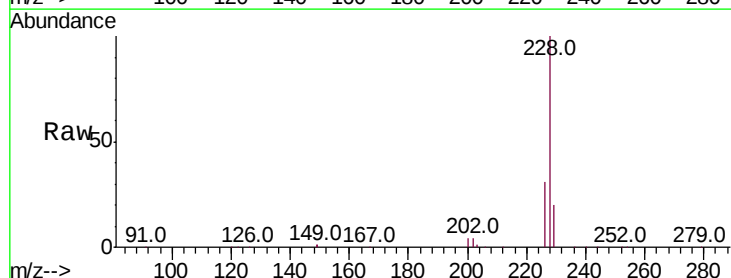
Instrument :
BNA_E
ClientSampleId :
PT-PAH-SOIL

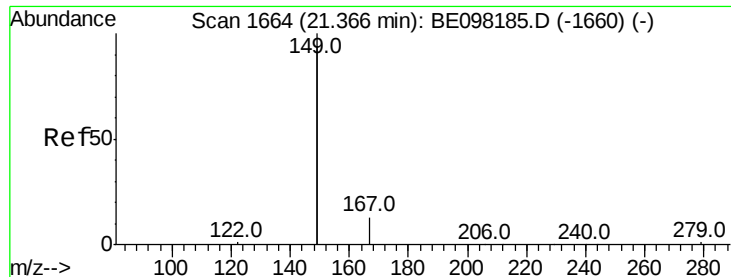
Tot Ion:228 Resp: 60117
Ion Ratio Lower Upper
228 100
226 26.1 20.7 31.1
229 20.6 16.2 24.4



#31
Chrysene
Concen: 9.783 ng
RT: 21.50 min Scan# 1674
Delta R.T. -0.00 min
Lab File: BE098190.D
Acq: 12 Nov 2018 14:50

Tgt Ion:228 Resp: 276600
Ion Ratio Lower Upper
228 100
226 30.6 24.6 36.8
229 19.5 16.0 24.0





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.328 ng

RT: 21.37 min Scan# 1663

Delta R.T. -0.00 min

Lab File: BE098190.D

Acq: 12 Nov 2018 14:50

Instrument :

BNA_E

ClientSampleId :

PT-PAH-SOIL

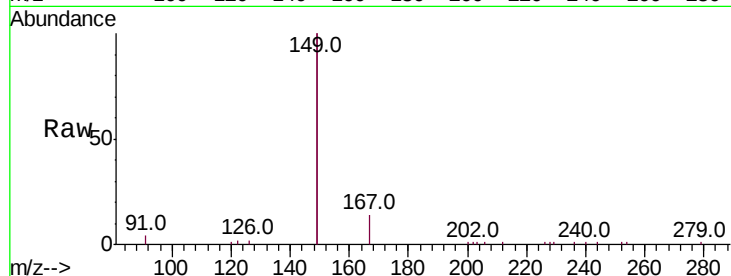
Tot Ion:149 Resp: 18944

Ion Ratio Lower Upper

149 100

167 6.7 5.6 8.4

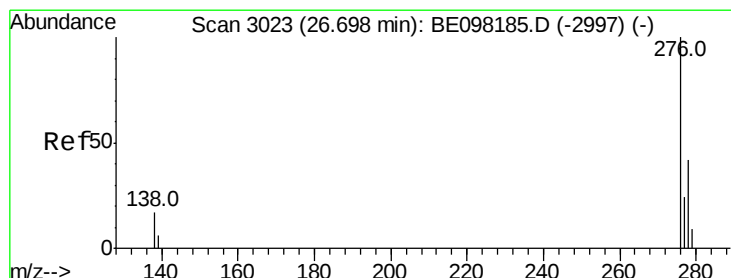
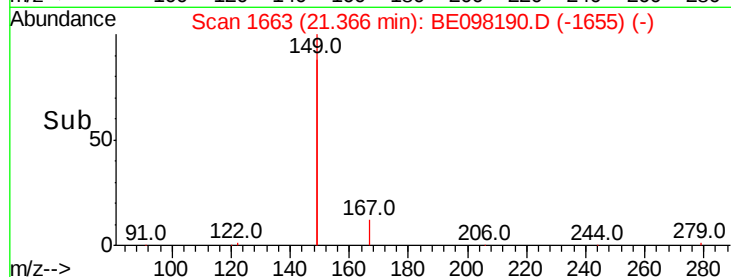
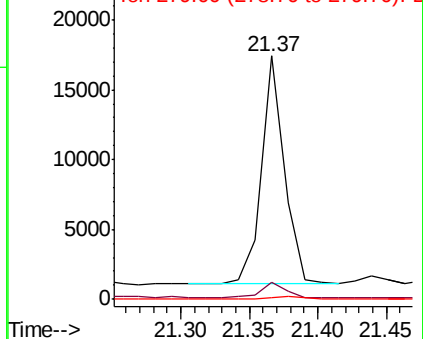
279 1.1 0.9 1.3



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: 9.404 ng

RT: 26.70 min Scan# 3022

Delta R.T. 0.00 min

Lab File: BE098190.D

Acq: 12 Nov 2018 14:50

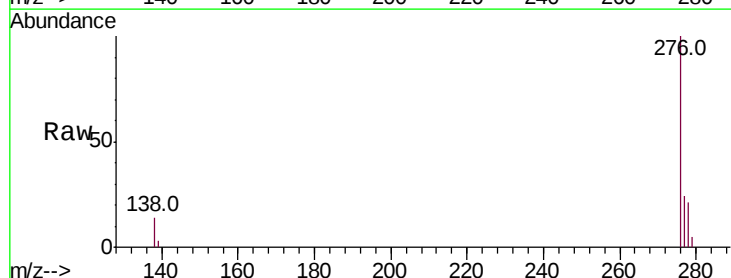
Tgt Ion:276 Resp: 243819

Ion Ratio Lower Upper

276 100

138 15.1 6.4 9.6#

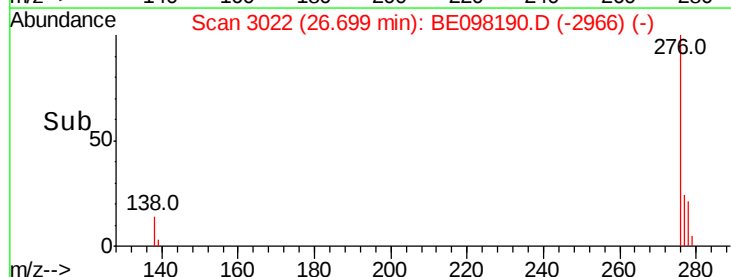
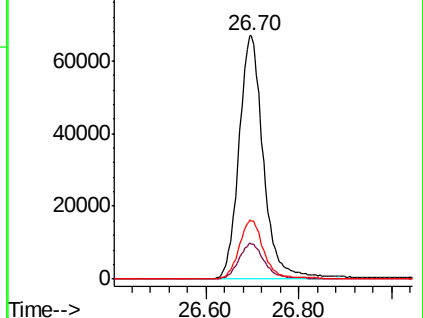
277 24.1 18.9 28.3

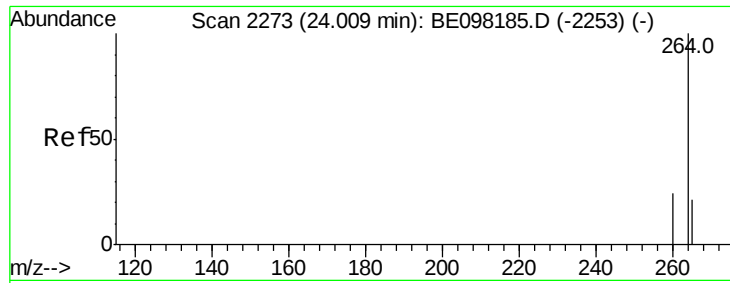


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

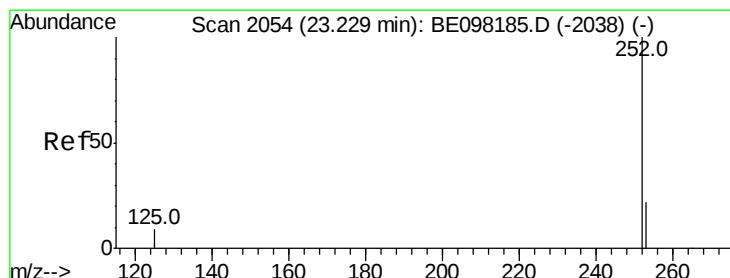
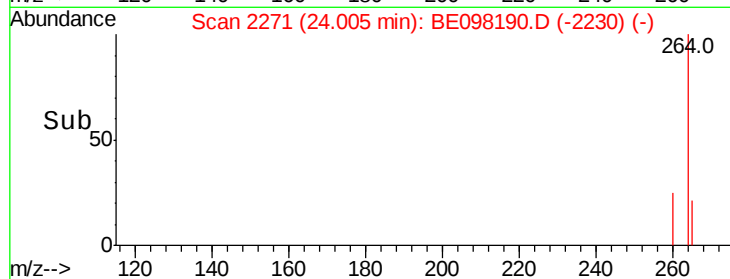
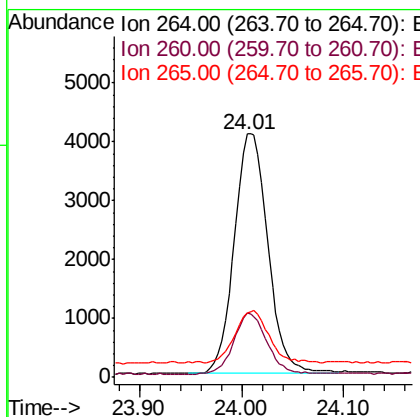
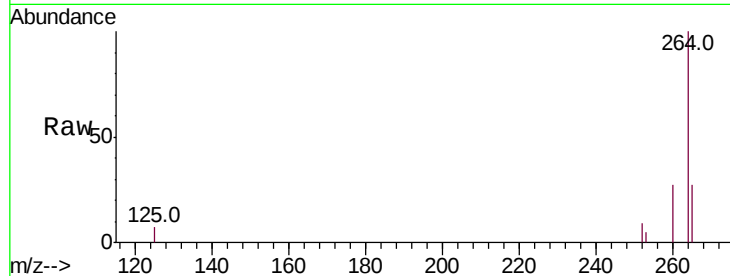




#34
Pervlene-d12
Concen: 0.400 ng
RT: 24.01 min Scan# 2271
Delta R.T. -0.00 min
Lab File: BE098190.D
Acq: 12 Nov 2018 14:50

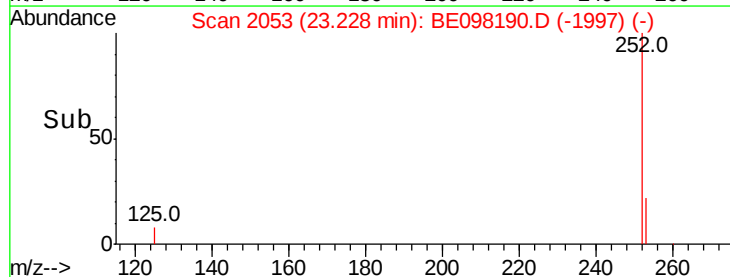
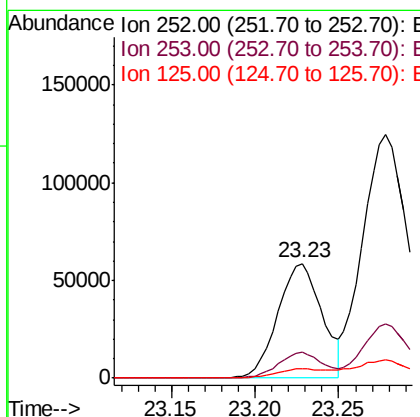
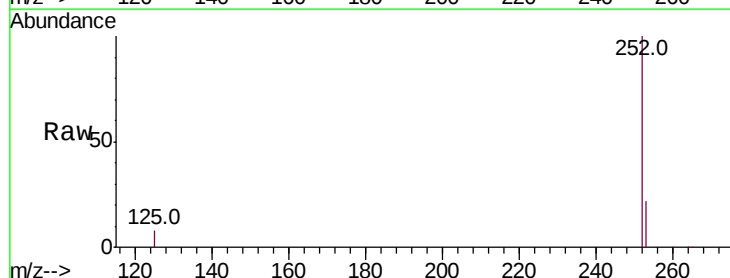
Instrument :
BNA_E
ClientSampleId :
PT-PAH-SOIL

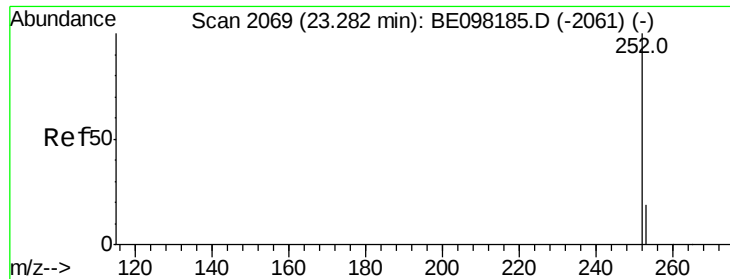
Tot Ion:264 Resp: 9404
Ion Ratio Lower Upper
264 100
260 26.5 19.9 29.9
265 26.7 21.3 31.9



#35
Benzo(b)fluoranthene
Concen: 4.051 ng
RT: 23.23 min Scan# 2053
Delta R.T. -0.00 min
Lab File: BE098190.D
Acq: 12 Nov 2018 14:50

Tgt Ion:252 Resp: 108081
Ion Ratio Lower Upper
252 100
253 22.4 19.4 29.0
125 8.2 8.6 12.8#

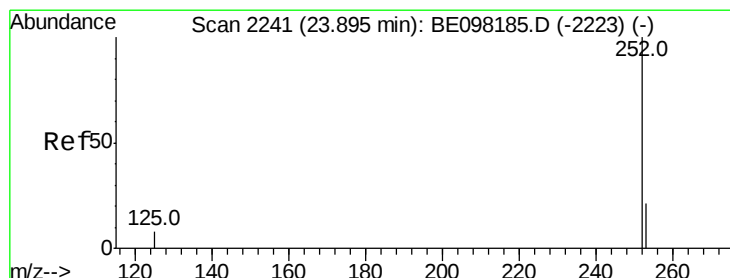
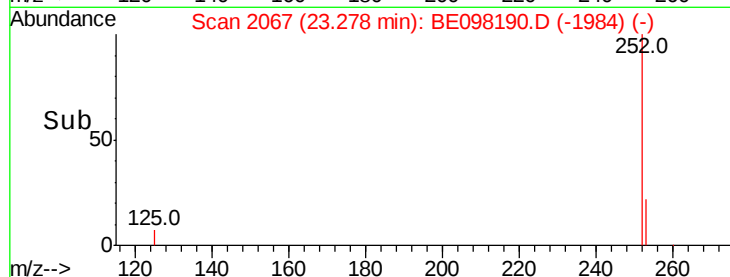
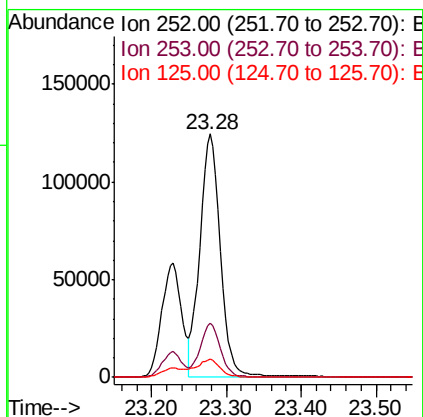
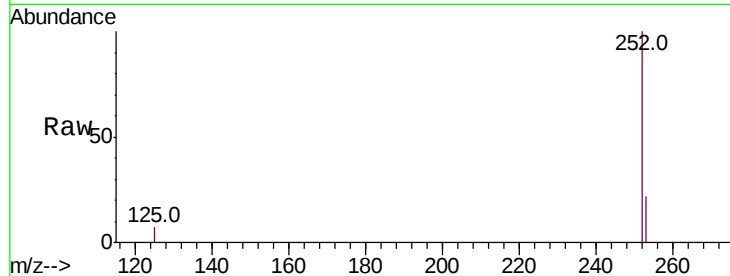




#36
Benzo(k)fluoranthene
Concen: 8.518 ng
RT: 23.28 min Scan# 2067
Delta R.T. -0.00 min
Lab File: BE098190.D
Acq: 12 Nov 2018 14:50

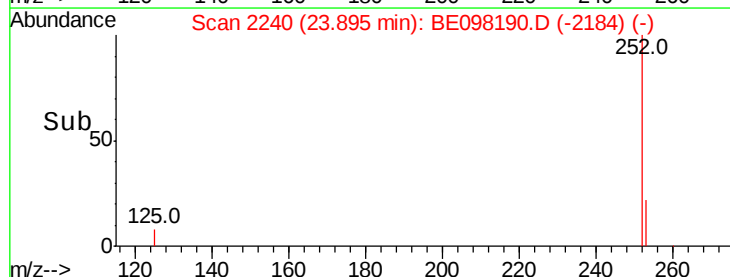
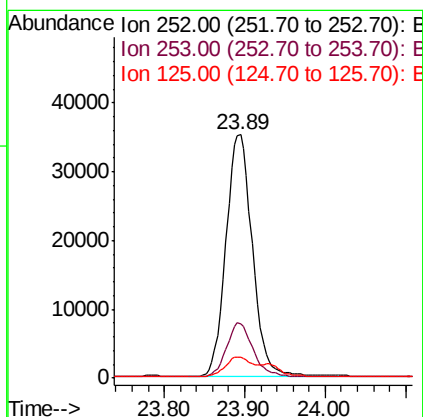
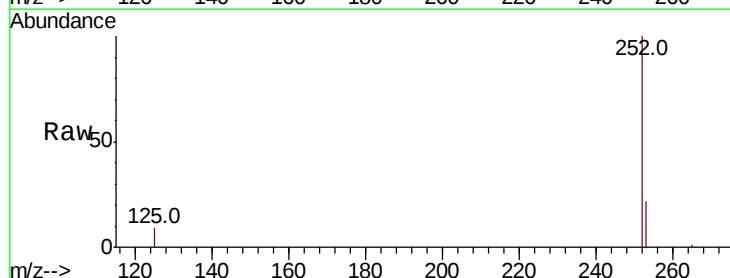
Instrument :
BNA_E
ClientSampleId :
PT-PAH-SOIL

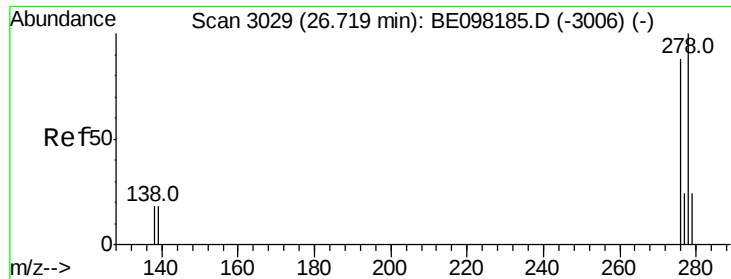
Tot Ion:252 Resp: 239788
Ion Ratio Lower Upper
252 100
253 22.2 18.6 28.0
125 7.4 7.4 11.0



#37
Benzo(a)pyrene
Concen: 3.156 ng
RT: 23.89 min Scan# 2240
Delta R.T. -0.00 min
Lab File: BE098190.D
Acq: 12 Nov 2018 14:50

Tgt Ion:252 Resp: 80752
Ion Ratio Lower Upper
252 100
253 22.3 18.6 27.8
125 8.7 8.0 12.0





#38

Dibenzo(a,h)anthracene

Concen: 3.786 ng

RT: 26.72 min Scan# 3027

Delta R.T. -0.00 min

Lab File: BE098190.D

Acq: 12 Nov 2018 14:50

Instrument :

BNA_E

ClientSampleId :

PT-PAH-SOIL

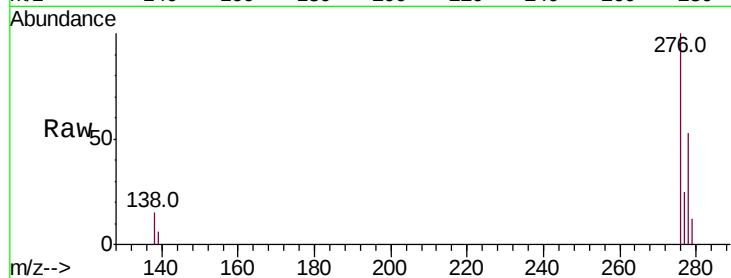
Tot Ion:278 Resp: 82520

Ion Ratio Lower Upper

278 100

139 12.2 16.4 24.6#

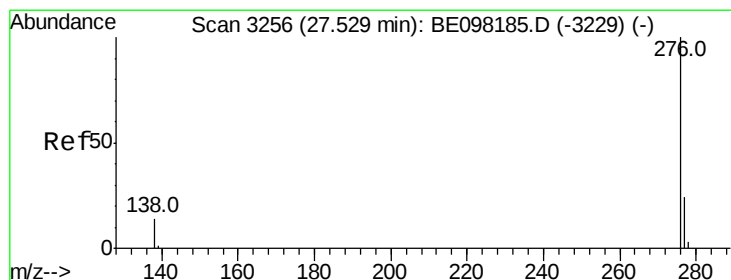
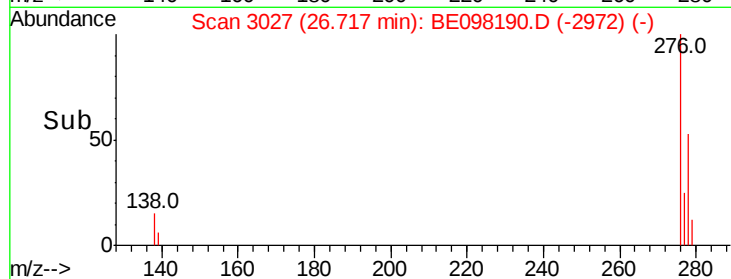
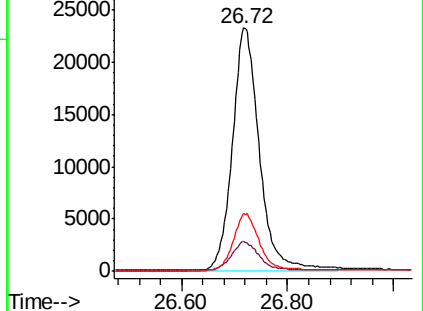
279 23.7 21.3 31.9



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: 5.125 ng

RT: 27.53 min Scan# 3254

Delta R.T. -0.00 min

Lab File: BE098190.D

Acq: 12 Nov 2018 14:50

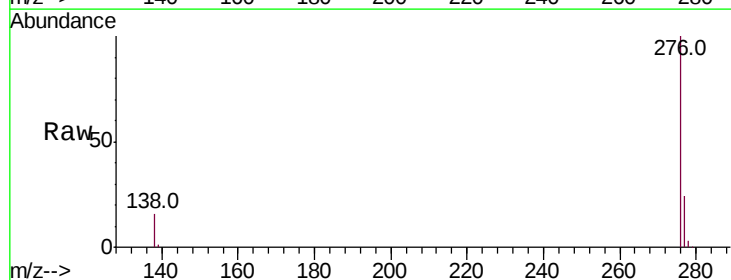
Tgt Ion:276 Resp: 116600

Ion Ratio Lower Upper

276 100

277 23.8 20.4 30.6

138 15.5 13.2 19.8



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

