

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE111218\
 Data File : BE098194.D
 Acq On : 12 Nov 2018 17:36
 Operator : SJ/JU
 Sample : J5807-13DL 500X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PT-BNA-SoilDL

Quant Time: Nov 13 09:34:25 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	7.87	152	1086	0.40	ng	0.01
7) Naphthalene-d8	10.67	136	5328	0.40	ng	0.00
13) Acenaphthene-d10	14.53	164	3448	0.40	ng	0.00
19) Phenanthrene-d10	17.28	188	8258	0.40	ng	0.00
27) Chrysene-d12	21.46	240	9150	0.40	ng	0.00
34) Perylene-d12	24.01	264	8782	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.45	112	768	0.25	ng	0.00
5) Phenol-d6	7.04	99	1382	0.28	ng	0.00
8) Nitrobenzene-d5	9.03	82	1016	0.19	ng	0.01
11) 2-Methylnaphthalene-d10	12.22	152	8	0.00	ng	-0.04
14) 2,4,6-Tribromophenol	16.03	330	366	0.24	ng	0.01
15) 2-Fluorobiphenyl	13.15	172	2705	0.19	ng	0.00
25) Fluoranthene-d10	19.31	212	24	0.00	ng	0.00
29) Terphenyl-d14	19.91	244	4067	0.20	ng	0.00

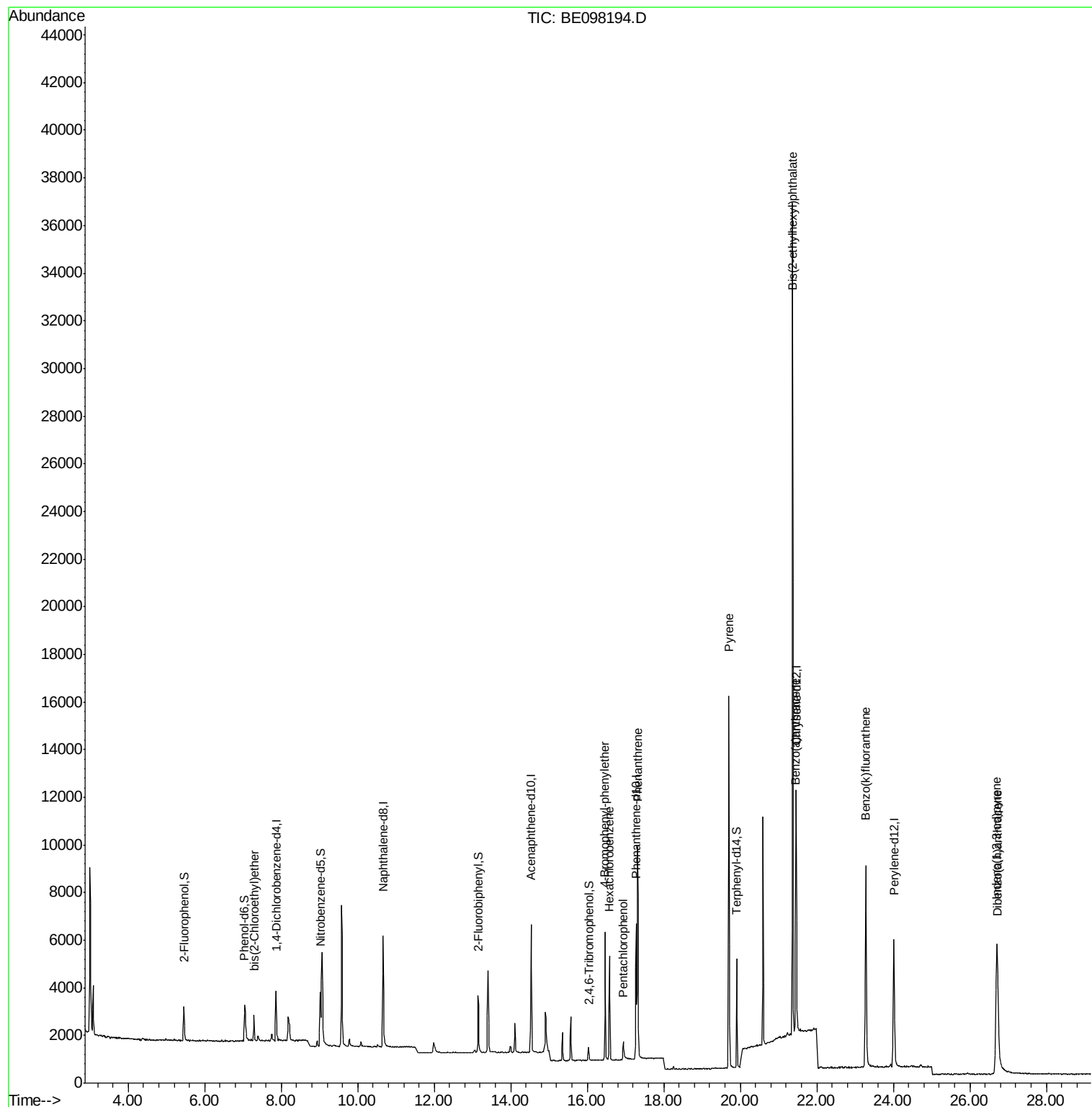
Target Compounds				Qvalue		
6) bis(2-Chloroethyl)ether	7.29	93	398	0.100	ng	96
20) 4-Bromophenyl-phenylether	16.46	248	2672	0.531	ng	95
21) Hexachlorobenzene	16.58	284	3531	0.675	ng	98
22) Pentachlorophenol	16.94	266	540	0.543	ng	98
23) Phenanthrene	17.32	178	10009	0.487	ng	99
28) Pyrene	19.70	202	15271	0.606	ng	99
30) Benzo(a)anthracene	21.45	228	5469	0.210	ng	99
32) Bis(2-ethylhexyl)phthalate	21.37	149	39869	0.738	ng	100
33) Indeno(1,2,3-cd)pyrene	26.70	276	12736	0.526	ng	# 93
36) Benzo(k)fluoranthene	23.28	252	13012	0.495	ng	100
38) Dibenzo(a,h)anthracene	26.73	278	5278	0.259	ng	94

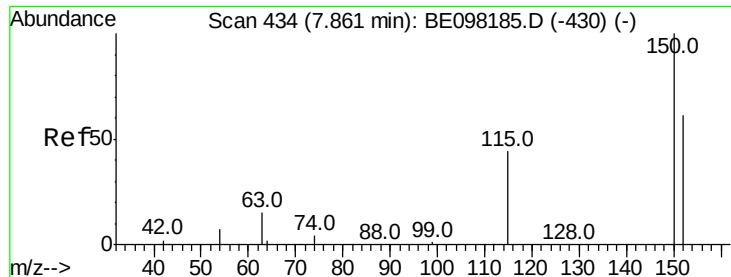
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.87 min Scan# 435

Delta R.T. 0.01 min

Lab File: BE098194.D

Acq: 12 Nov 2018 17:36

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SoilDL

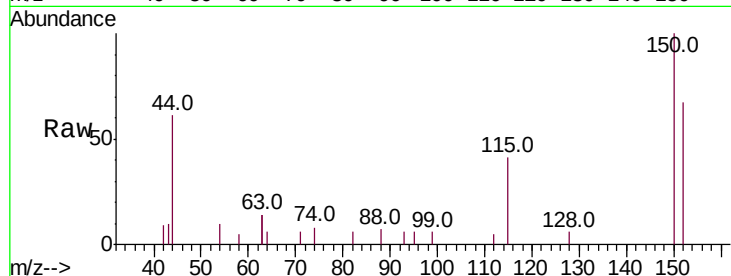
Tot Ion:152 Resp: 1086

Ion Ratio Lower Upper

152 100

150 148.2 127.5 191.3

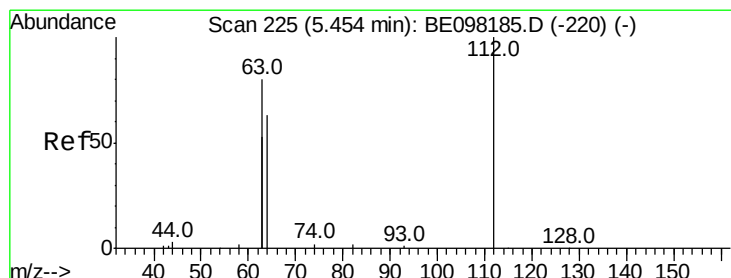
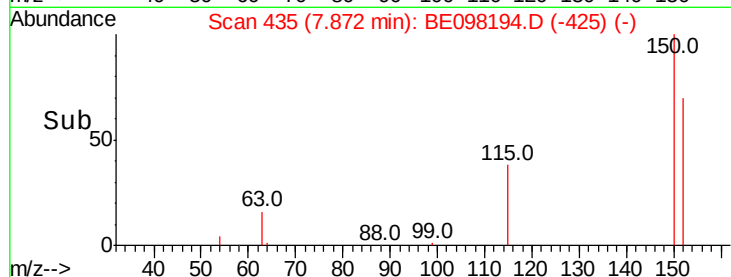
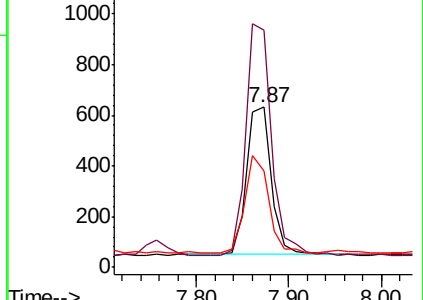
115 60.1 60.3 90.5#



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: 0.251 ng

RT: 5.45 min Scan# 225

Delta R.T. -0.00 min

Lab File: BE098194.D

Acq: 12 Nov 2018 17:36

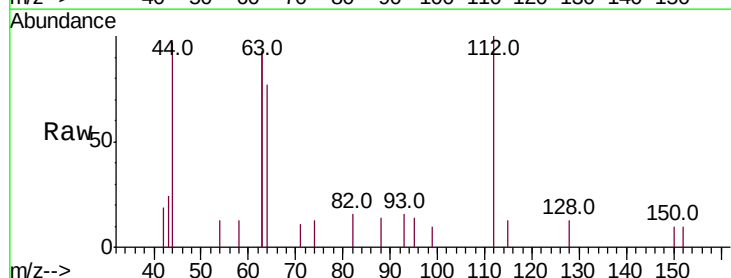
Tgt Ion:112 Resp: 768

Ion Ratio Lower Upper

112 100

64 83.3 61.7 92.5

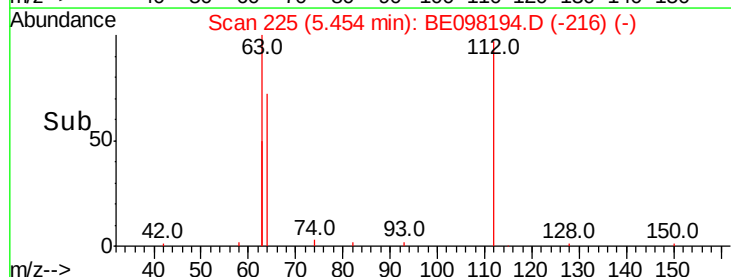
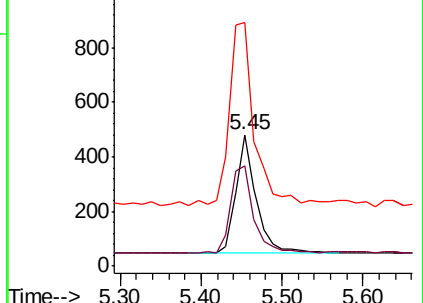
63 189.8 136.2 204.2

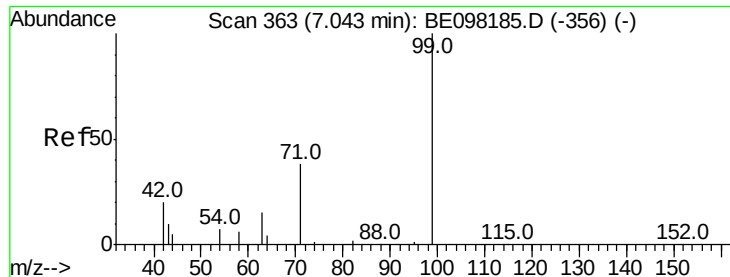


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.281 ng

RT: 7.04 min Scan# 363

Delta R.T. -0.00 min

Lab File: BE098194.D

Acq: 12 Nov 2018 17:36

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SoilDL

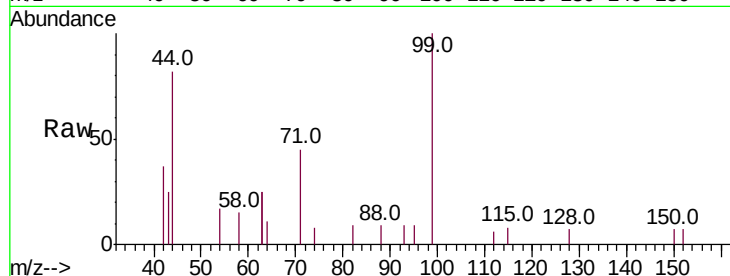
Tot Ion: 99 Resp: 1382

Ion Ratio Lower Upper

99 100

42 36.0 27.1 40.7

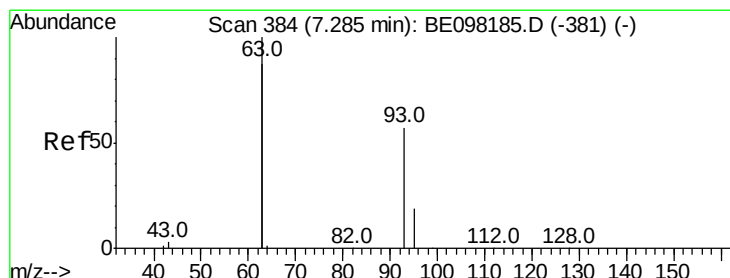
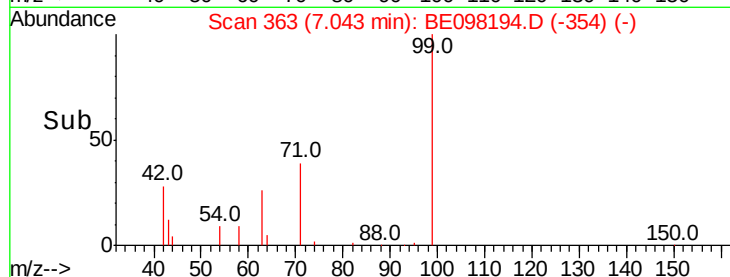
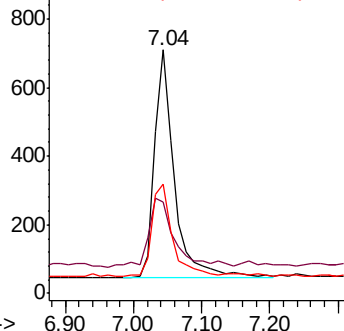
71 41.5 37.0 55.6



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



#6

bis(2-Chloroethyl)ether

Concen: 0.100 ng

RT: 7.29 min Scan# 384

Delta R.T. -0.00 min

Lab File: BE098194.D

Acq: 12 Nov 2018 17:36

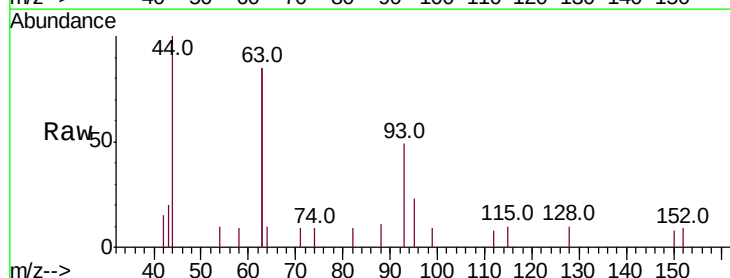
Tgt Ion: 93 Resp: 398

Ion Ratio Lower Upper

93 100

63 333.2 272.6 409.0

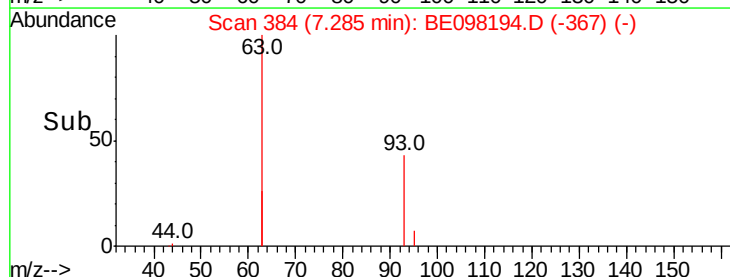
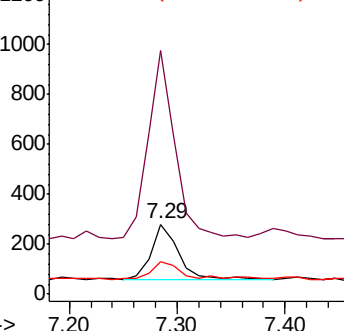
95 37.9 27.1 40.7

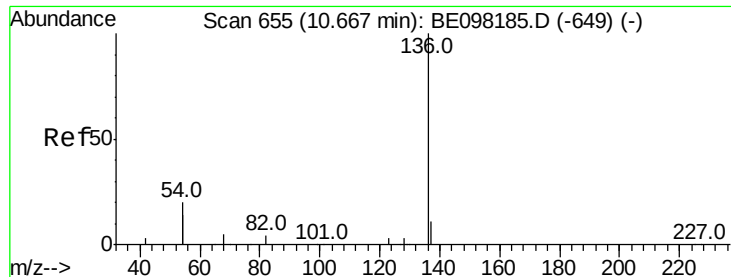


Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.67 min Scan# 654

Delta R.T. -0.00 min

Lab File: BE098194.D

Acq: 12 Nov 2018 17:36

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SoilDL

Tot Ion:136 Resp: 5328

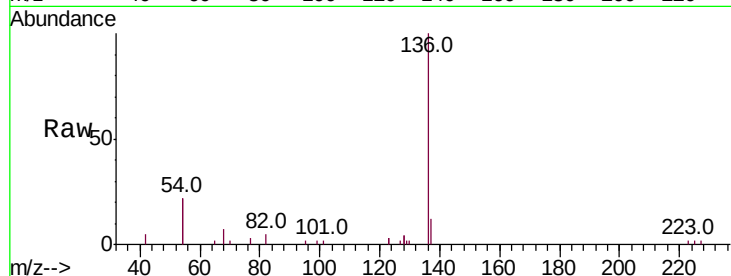
Ion Ratio Lower Upper

136 100

137 12.3 9.5 14.3

54 43.5 31.3 46.9

68 7.1 4.8 7.2

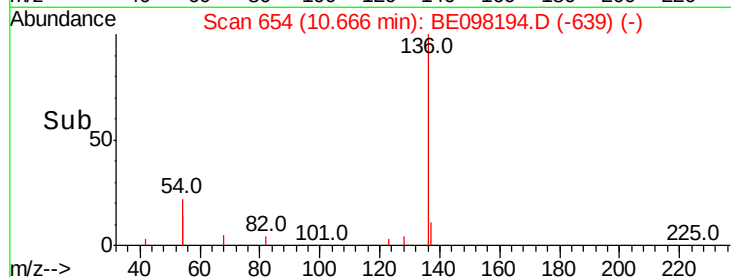


Abundance Ion 136.00 (135.70 to 136.70): E

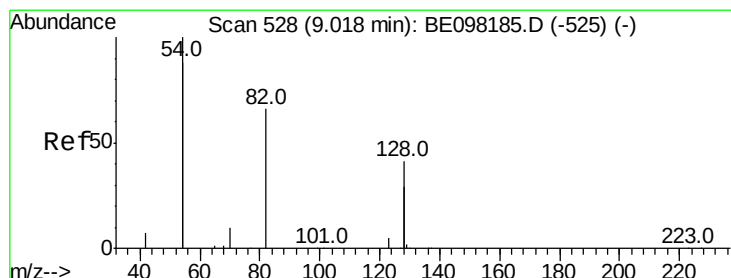
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



Time-->



#8

Nitrobenzene-d5

Concen: 0.191 ng

RT: 9.03 min Scan# 528

Delta R.T. 0.01 min

Lab File: BE098194.D

Acq: 12 Nov 2018 17:36

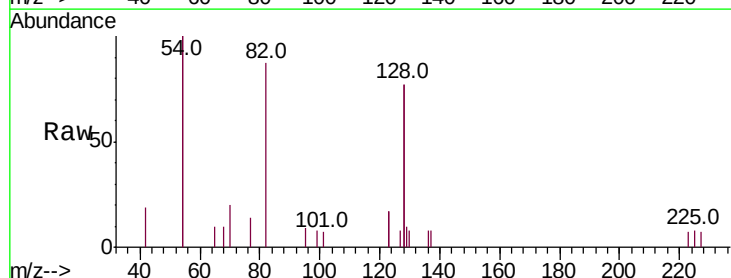
Tgt Ion: 82 Resp: 1016

Ion Ratio Lower Upper

82 100

128 175.4 96.1 144.1#

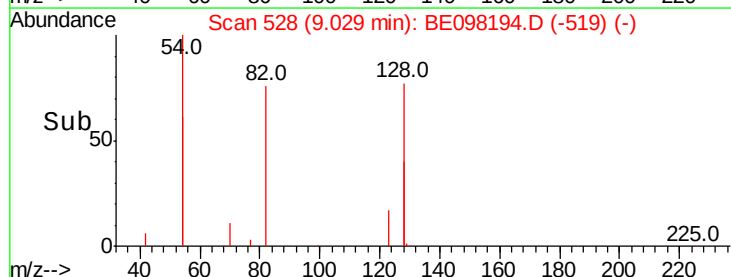
54 229.2 232.0 348.0#



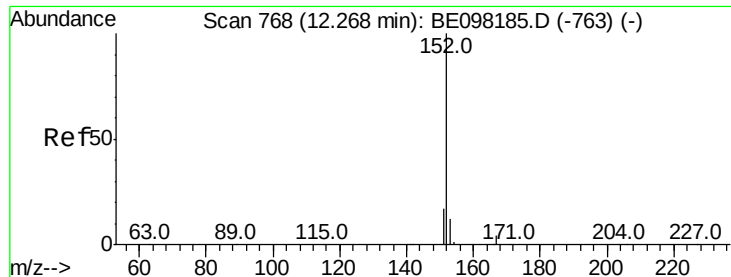
Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0



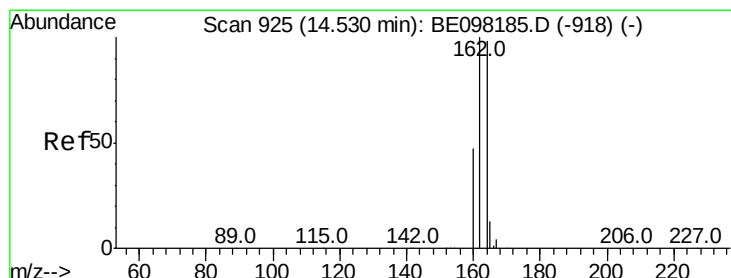
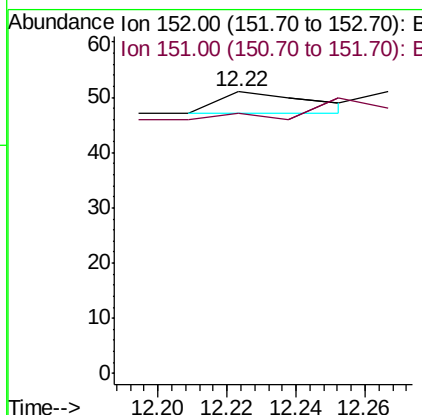
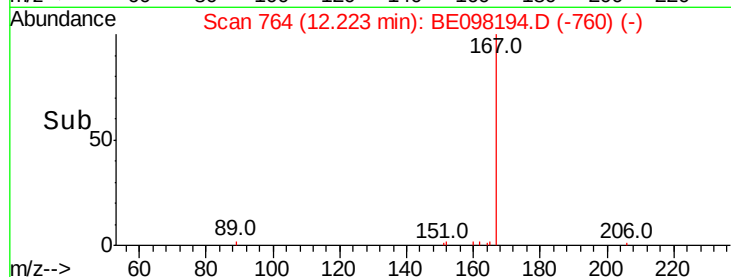
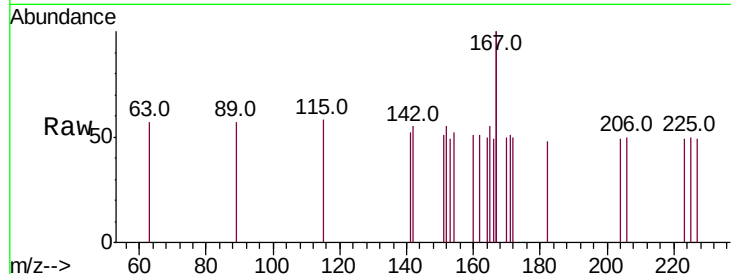
Time-->



#11
2-Methylnaphthalene-d10
Concen: 0.001 ng
RT: 12.22 min Scan# 764
Delta R.T. -0.04 min
Lab File: BE098194.D
Acq: 12 Nov 2018 17:36

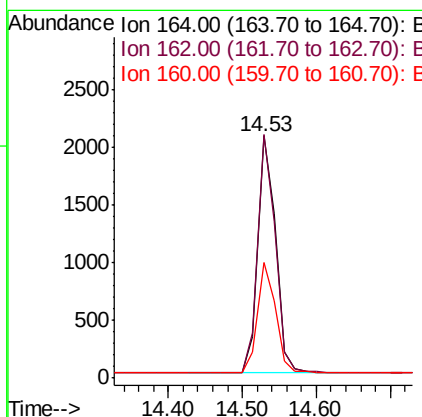
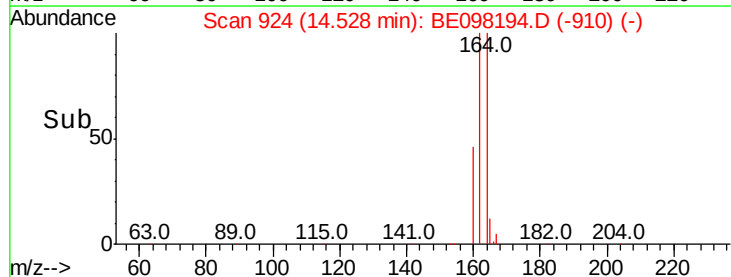
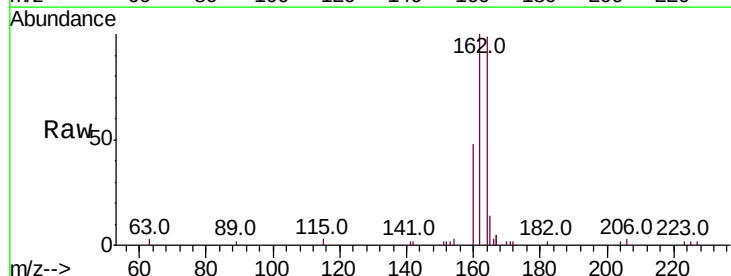
Instrument :
BNA_E
ClientSampleId :
PT-BNA-SoilDL

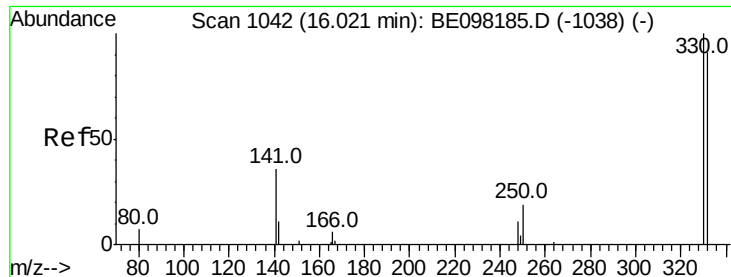
Tot Ion:152 Resp: 8
Ion Ratio Lower Upper
152 100
151 0.0 15.4 23.2#



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.53 min Scan# 924
Delta R.T. -0.00 min
Lab File: BE098194.D
Acq: 12 Nov 2018 17:36

Tgt Ion:164 Resp: 3448
Ion Ratio Lower Upper
164 100
162 100.6 81.8 122.6
160 47.8 39.4 59.0





#14

2,4,6-Tribromophenol

Concen: 0.243 ng

RT: 16.03 min Scan# 1042

Delta R.T. 0.01 min

Lab File: BE098194.D

Acq: 12 Nov 2018 17:36

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SoilDL

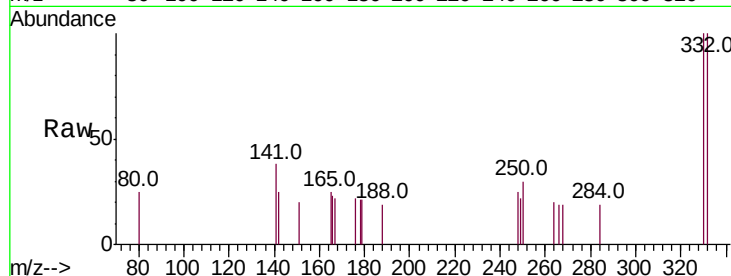
Tot Ion:330 Resp: 366

Ion Ratio Lower Upper

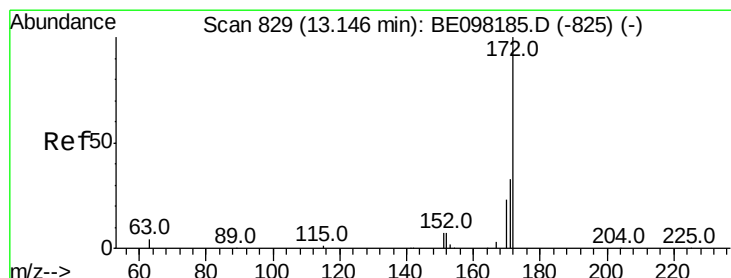
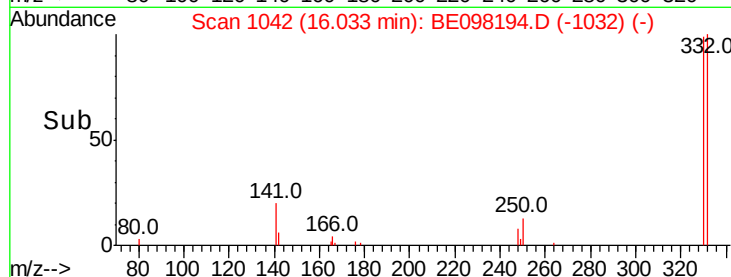
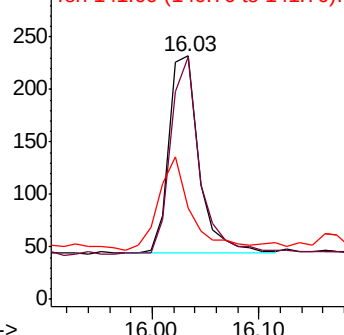
330 100

332 100.8 77.7 116.5

141 50.8 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: 0.187 ng

RT: 13.15 min Scan# 828

Delta R.T. -0.00 min

Lab File: BE098194.D

Acq: 12 Nov 2018 17:36

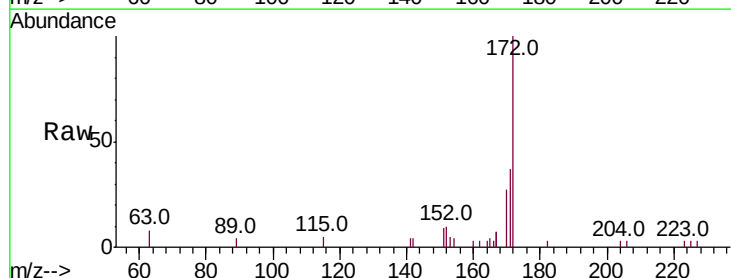
Tgt Ion:172 Resp: 2705

Ion Ratio Lower Upper

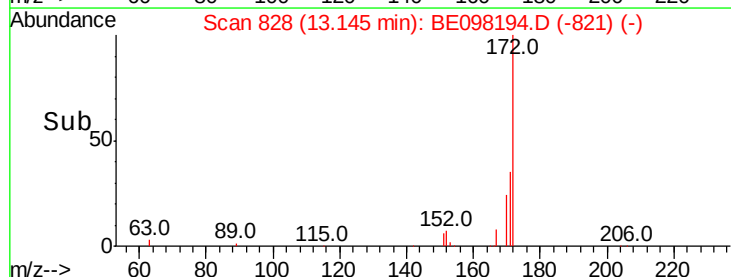
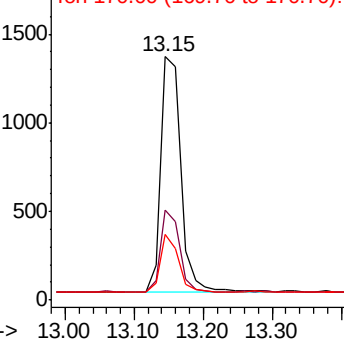
172 100

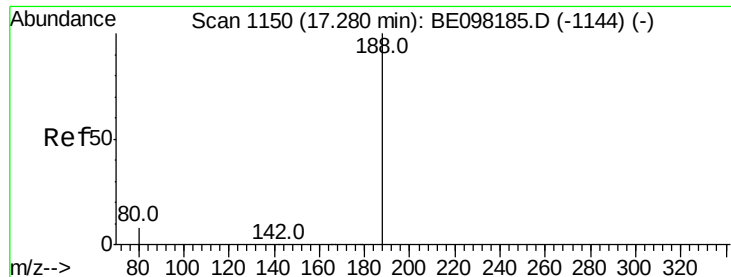
171 36.9 27.3 40.9

170 26.9 19.4 29.0



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





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.28 min Scan# 1149

Delta R.T. 0.00 min

Lab File: BE098194.D

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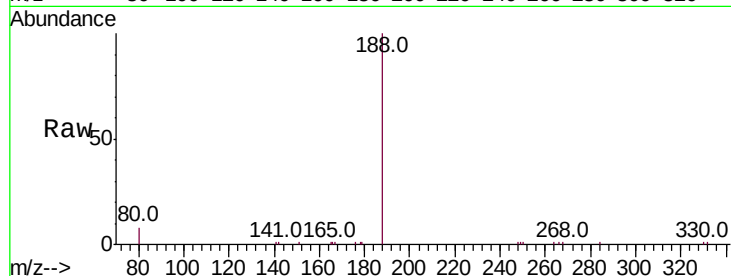
Tot Ion:188 Resp: 8258

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

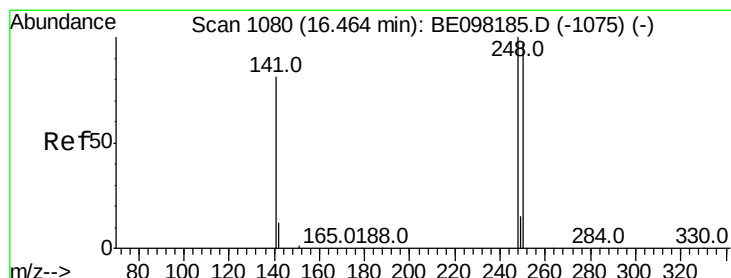
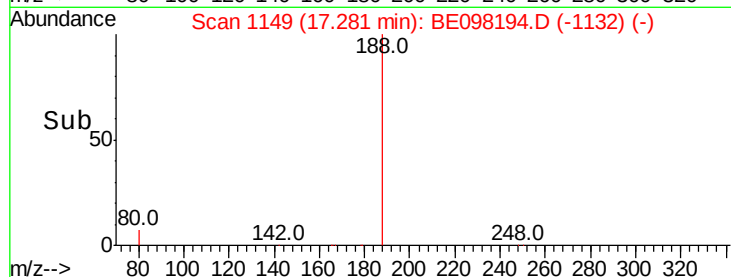
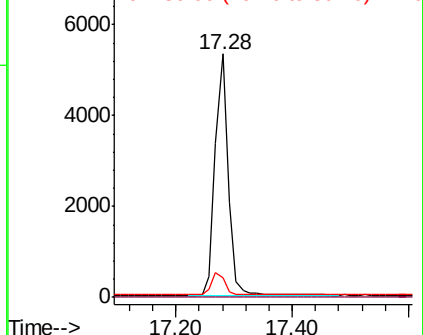
80 8.0 6.7 10.1



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



#20

4-Bromophenyl-phenylether

Concen: 0.531 ng

RT: 16.46 min Scan# 1079

Delta R.T. 0.00 min

Lab File: BE098194.D

Acq: 12 Nov 2018 17:36

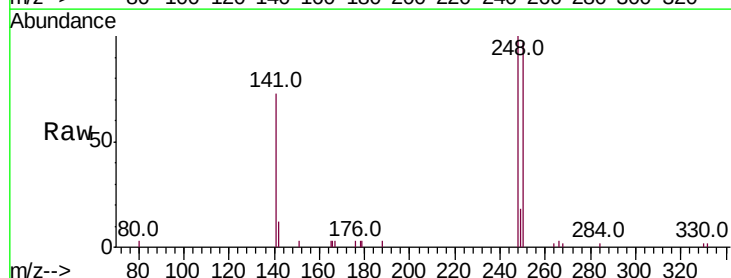
Tgt Ion:248 Resp: 2672

Ion Ratio Lower Upper

248 100

250 96.9 77.6 116.4

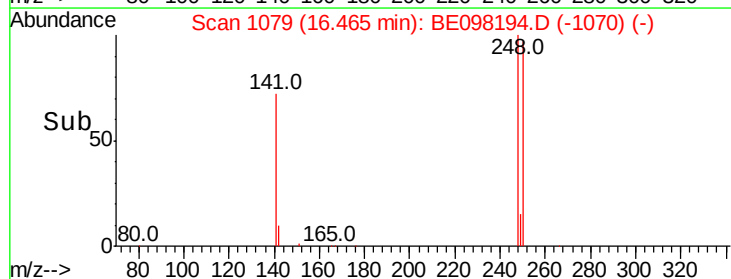
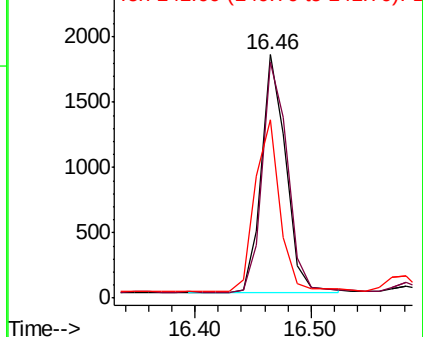
141 73.5 65.8 98.8

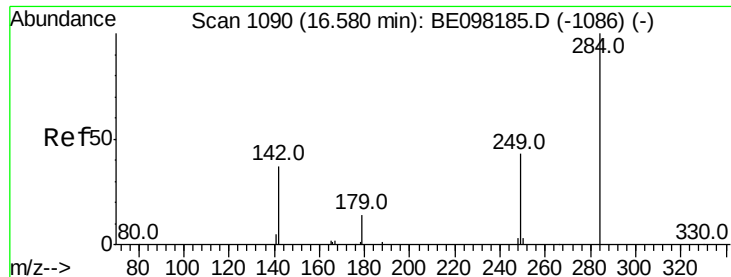


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 0.675 ng

RT: 16.58 min Scan# 1089

Delta R.T. 0.00 min

Lab File: BE098194.D

Acq: 12 Nov 2018 17:36

Instrument :

BNA_E

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PT-BNA-SoilDL

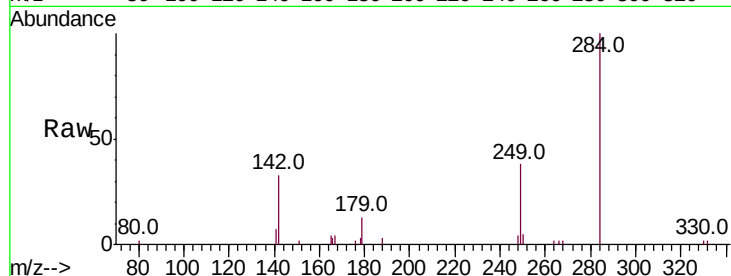
Tot Ion:284 Resp: 3531

Ion Ratio Lower Upper

284 100

142 32.8 26.5 39.7

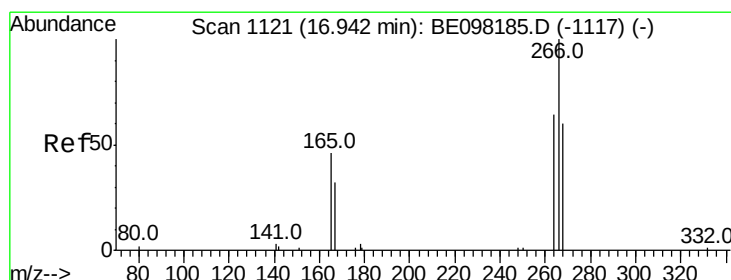
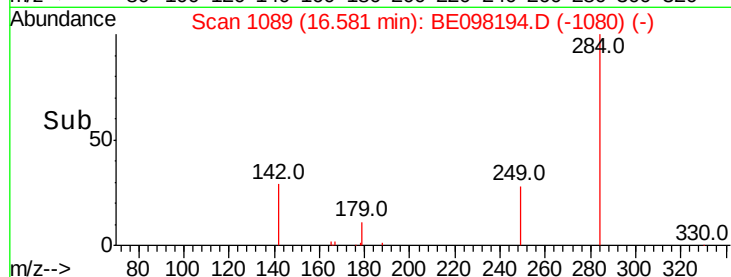
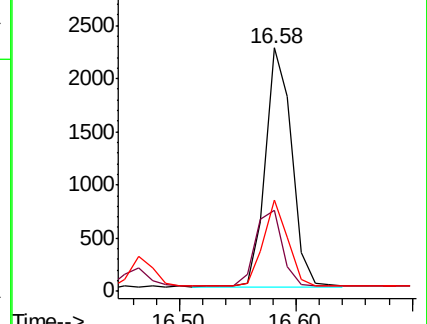
249 33.8 28.4 42.6



Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E



#22

Pentachlorophenol

Concen: 0.543 ng

RT: 16.94 min Scan# 1120

Delta R.T. 0.00 min

Lab File: BE098194.D

Acq: 12 Nov 2018 17:36

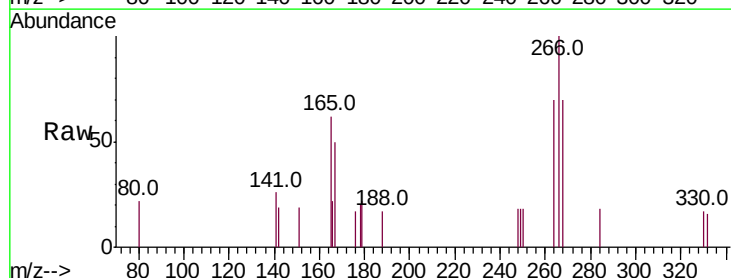
Tgt Ion:266 Resp: 540

Ion Ratio Lower Upper

266 100

264 69.9 57.6 86.4

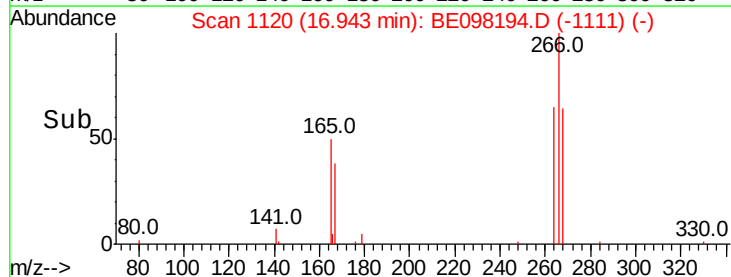
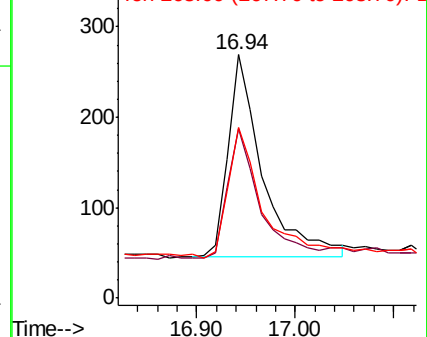
268 70.3 56.8 85.2

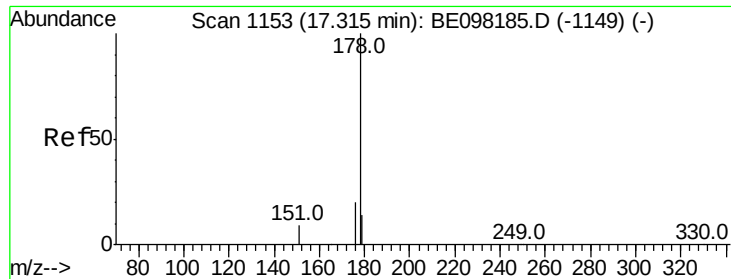


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.487 ng

RT: 17.32 min Scan# 1152

Delta R.T. 0.00 min

Lab File: BE098194.D

Acq: 12 Nov 2018 17:36

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SoilDL

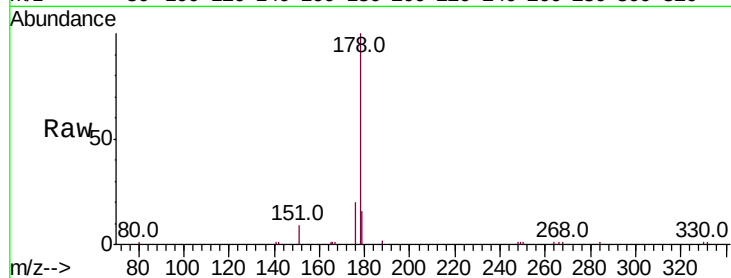
Tot Ion:178 Resp: 10009

Ion Ratio Lower Upper

178 100

176 18.9 15.8 23.8

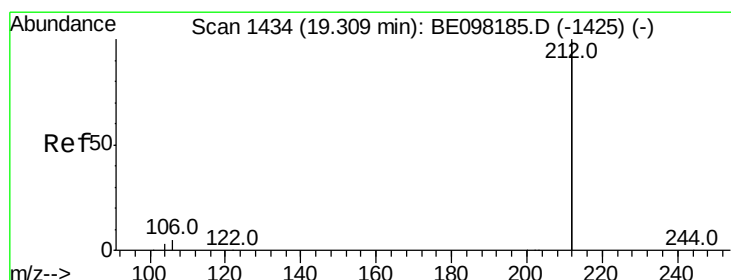
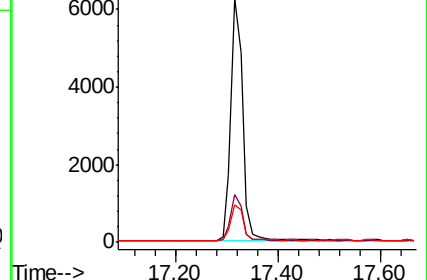
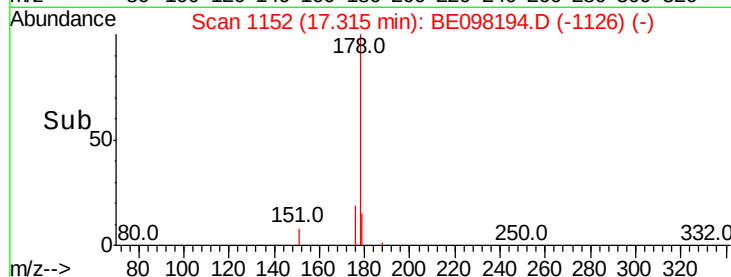
179 15.5 12.3 18.5



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



#25

Fluoranthene-d10

Concen: 0.000 ng

RT: 19.31 min Scan# 1434

Delta R.T. 0.01 min

Lab File: BE098194.D

Acq: 12 Nov 2018 17:36

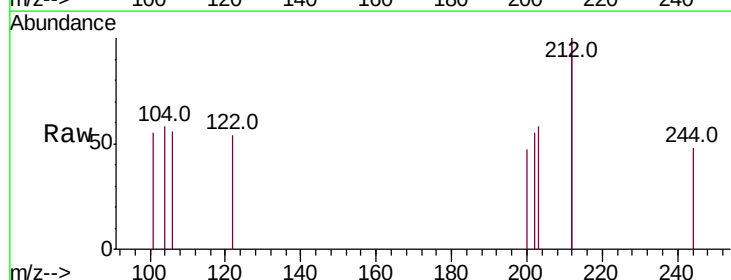
Tgt Ion:212 Resp: 24

Ion Ratio Lower Upper

212 100

106 0.0 1.8 2.8#

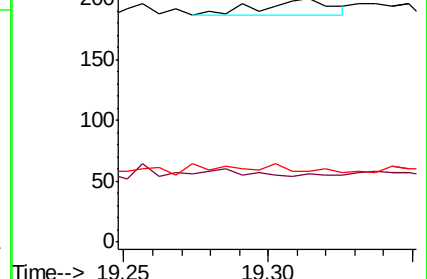
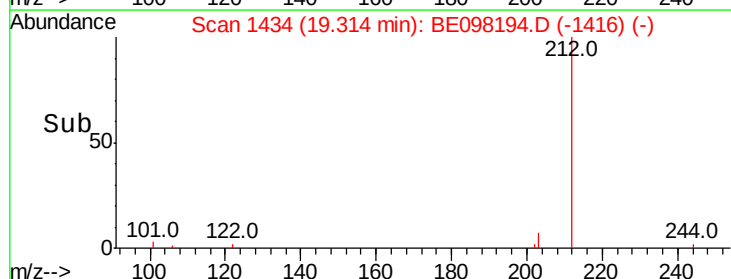
104 0.0 1.1 1.7#

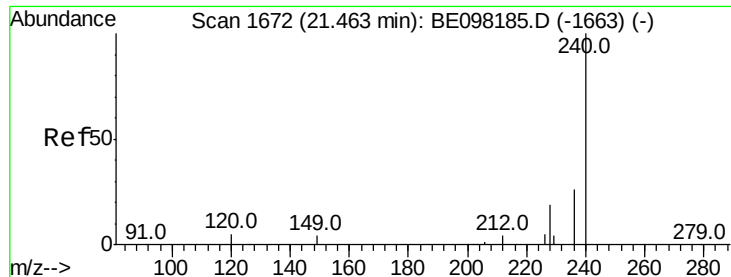


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.46 min Scan# 1671

Delta R.T. -0.00 min

Lab File: BE098194.D

Acq: 12 Nov 2018 17:36

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SoilDL

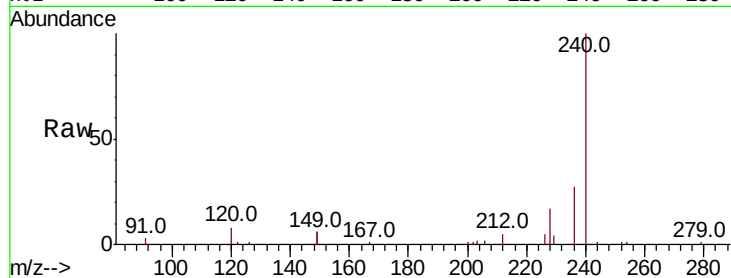
Tot Ion:240 Resp: 9150

Ion Ratio Lower Upper

240 100

120 7.8 4.8 7.2#

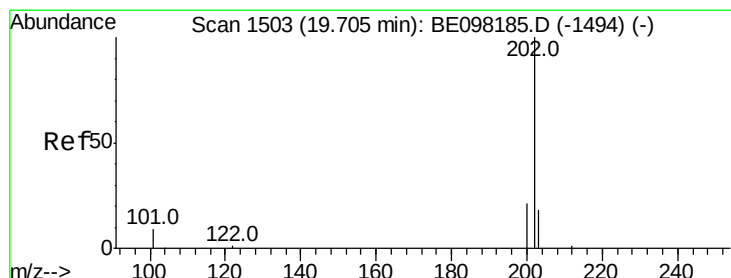
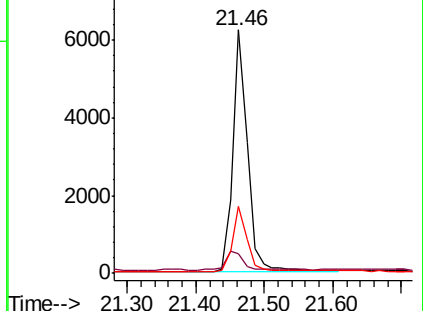
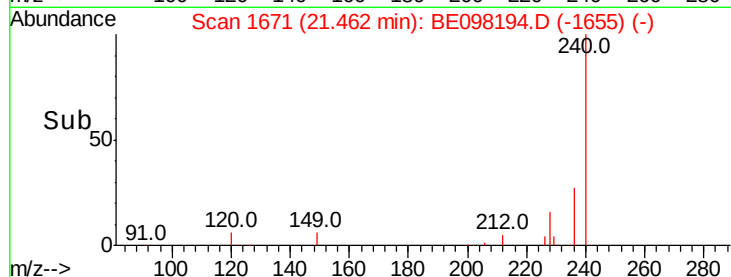
236 27.3 21.4 32.0



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



#28

Pyrene

Concen: 0.606 ng

RT: 19.70 min Scan# 1502

Delta R.T. -0.00 min

Lab File: BE098194.D

Acq: 12 Nov 2018 17:36

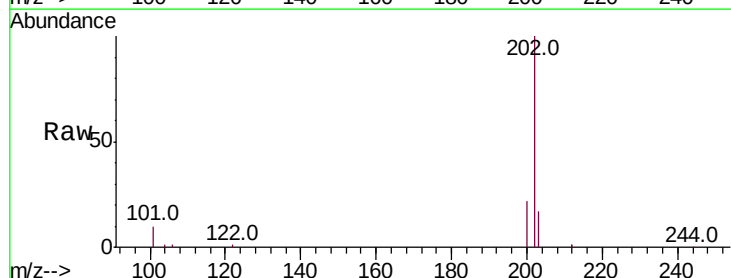
Tgt Ion:202 Resp: 15271

Ion Ratio Lower Upper

202 100

200 21.2 17.2 25.8

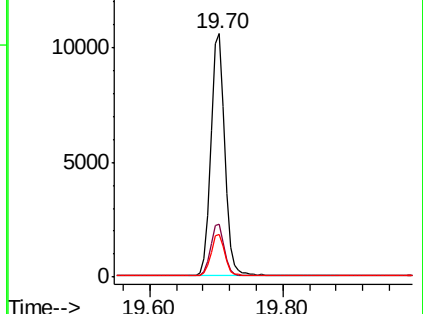
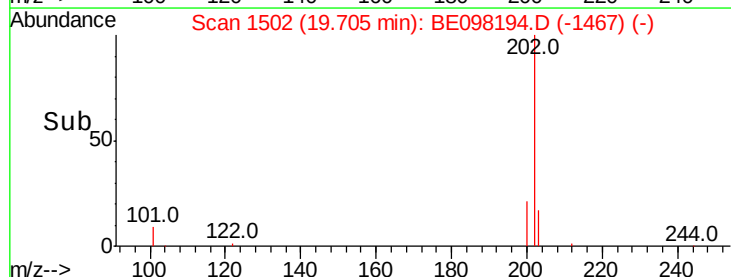
203 17.0 14.2 21.4

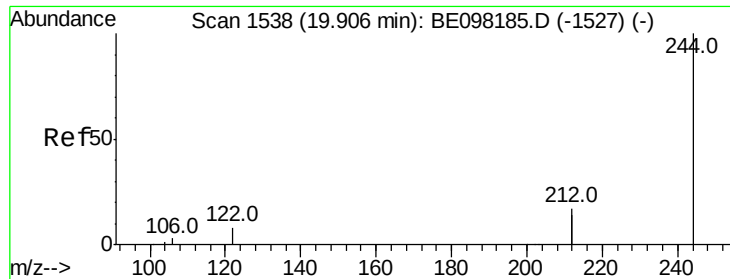


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.196 ng

RT: 19.91 min Scan# 1537

Delta R.T. -0.00 min

Lab File: BE098194.D

Acq: 12 Nov 2018 17:36

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SoilDL

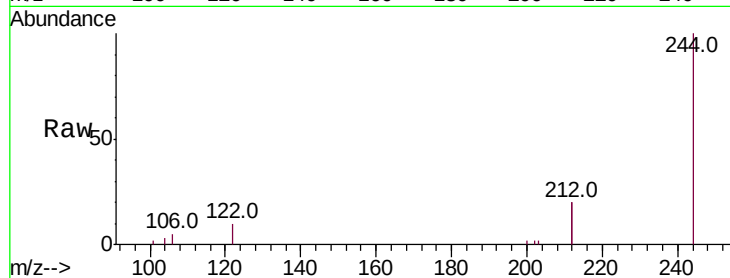
Tot Ion:244 Resp: 4067

Ion Ratio Lower Upper

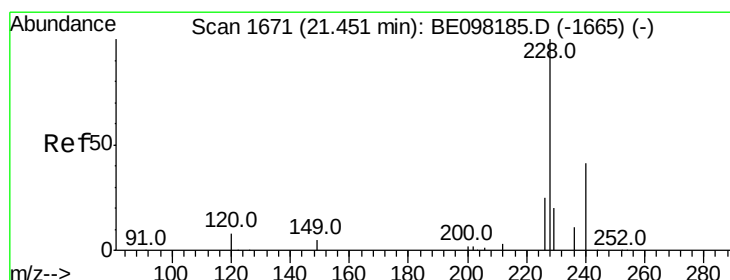
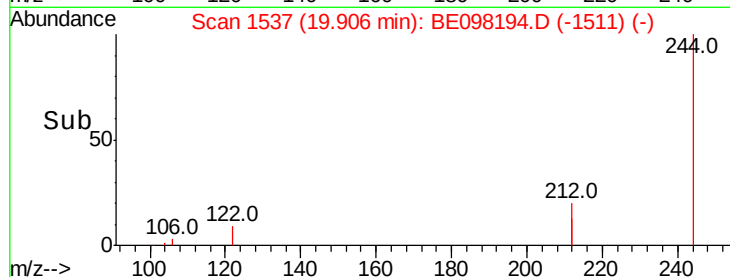
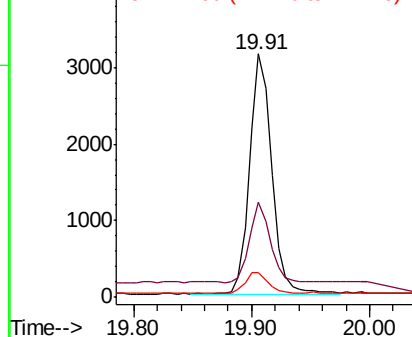
244 100

212 39.0 26.8 40.2

122 10.1 7.0 10.6



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: 0.210 ng

RT: 21.45 min Scan# 1670

Delta R.T. -0.00 min

Lab File: BE098194.D

Acq: 12 Nov 2018 17:36

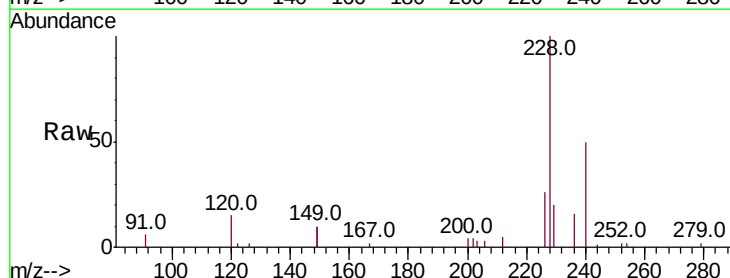
Tgt Ion:228 Resp: 5469

Ion Ratio Lower Upper

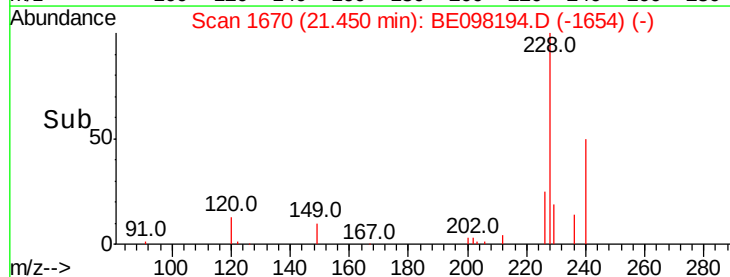
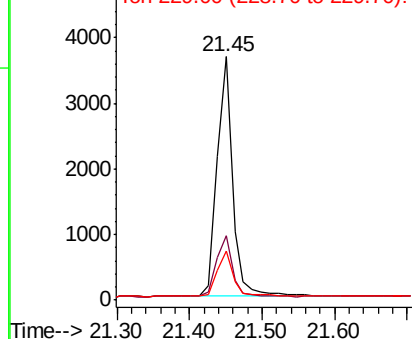
228 100

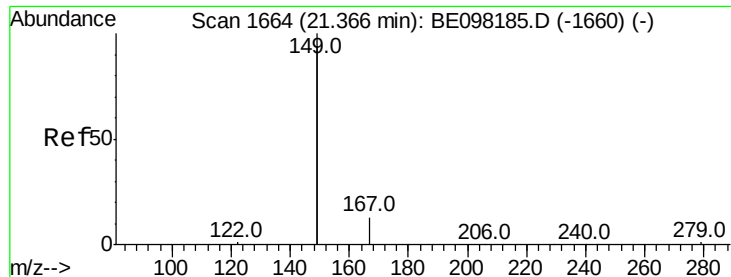
226 26.4 20.7 31.1

229 20.0 16.2 24.4



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

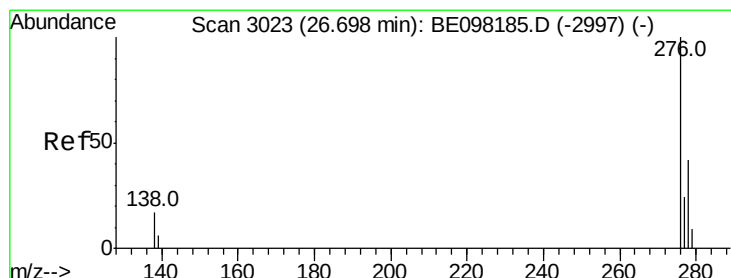
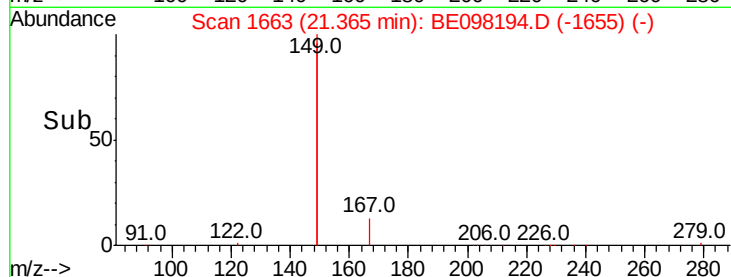
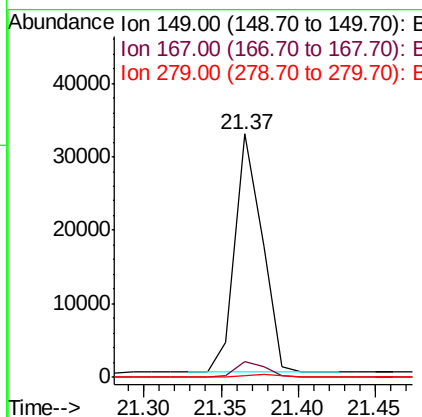
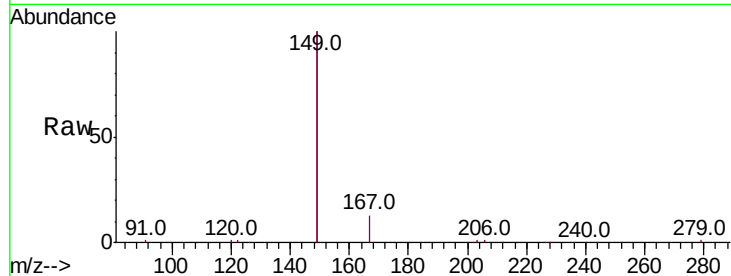




#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.738 ng
 RT: 21.37 min Scan# 1663
 Delta R.T. -0.00 min
 Lab File: BE098194.D
 Acq: 12 Nov 2018 17:36

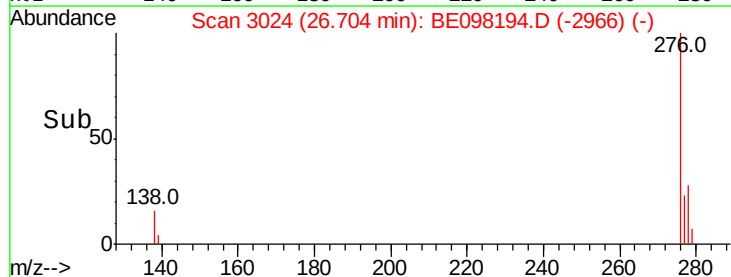
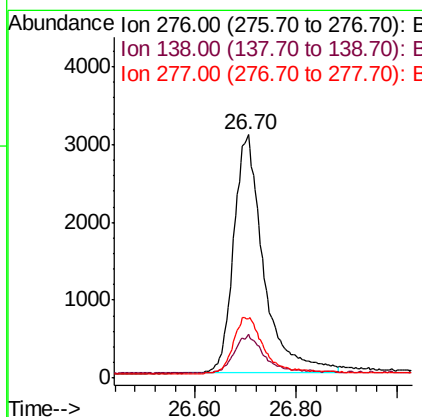
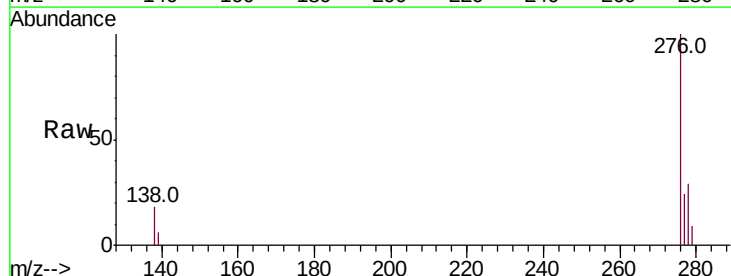
Instrument :
 BNA_E
 ClientSampleId :
 PT-BNA-SoilDL

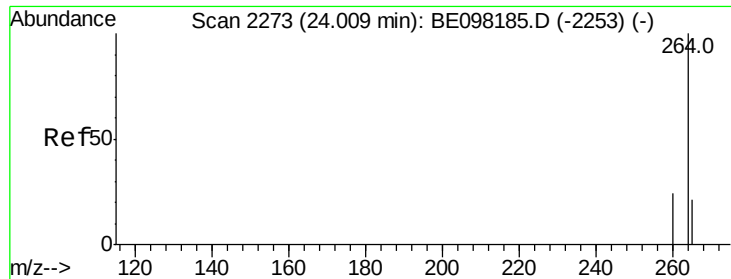
Tot Ion:149 Resp: 39869
 Ion Ratio Lower Upper
 149 100
 167 7.0 5.6 8.4
 279 1.1 0.9 1.3



#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.526 ng
 RT: 26.70 min Scan# 3024
 Delta R.T. 0.01 min
 Lab File: BE098194.D
 Acq: 12 Nov 2018 17:36

Tgt Ion:276 Resp: 12736
 Ion Ratio Lower Upper
 276 100
 138 15.5 6.4 9.6#
 277 22.7 18.9 28.3



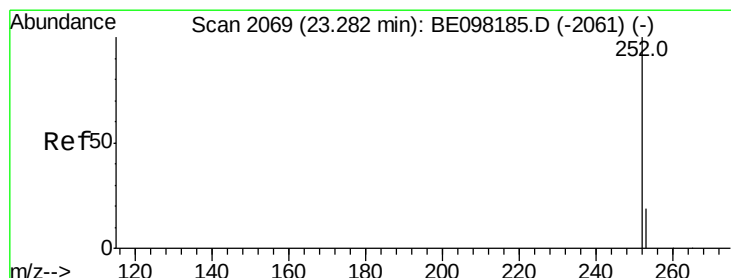
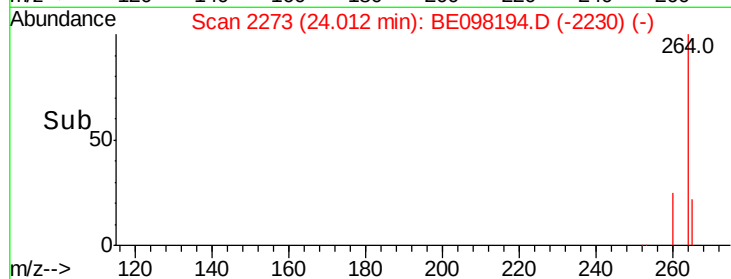
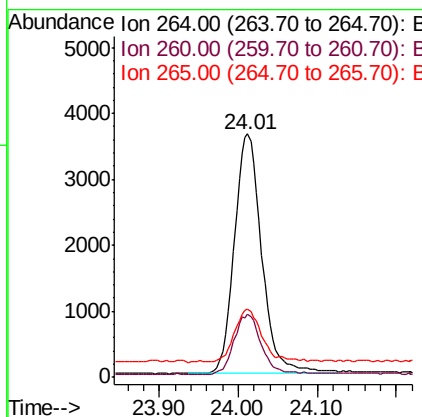
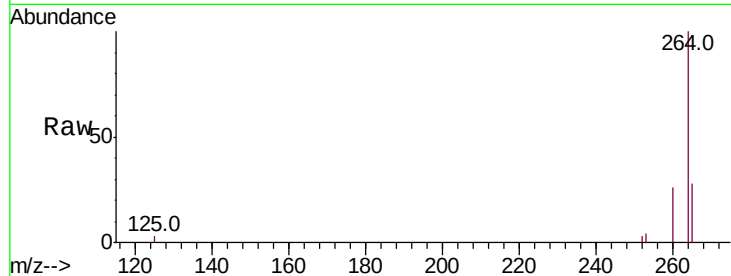


#34
Pervlene-d12
Concen: 0.400 ng
RT: 24.01 min Scan# 2273
Delta R.T. 0.00 min
Lab File: BE098194.D
Acq: 12 Nov 2018 17:36

Instrument :
BNA_E
ClientSampleId :
PT-BNA-SoilDL

Tot Ion:264 Resp: 8782

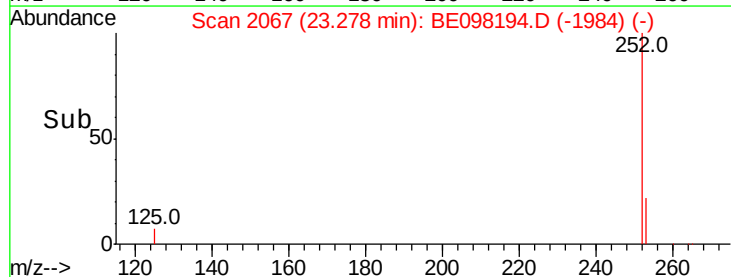
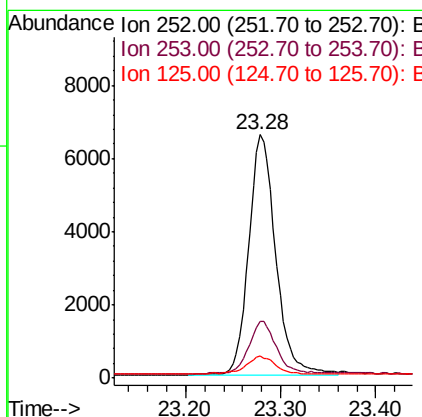
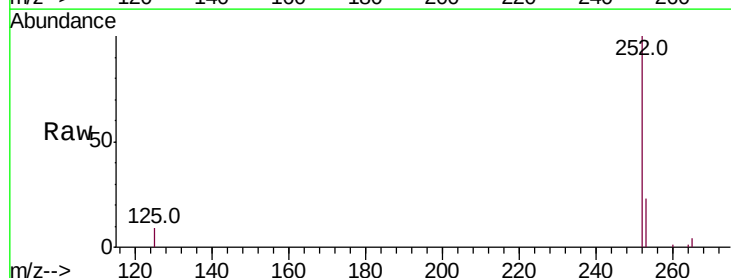
Ion	Ratio	Lower	Upper
264	100		
260	25.9	19.9	29.9
265	28.0	21.3	31.9

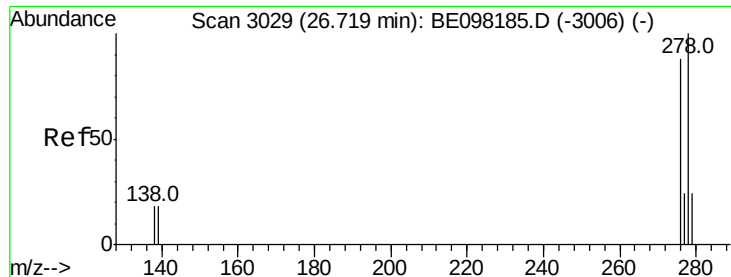


#36
Benzo(k)fluoranthene
Concen: 0.495 ng
RT: 23.28 min Scan# 2067
Delta R.T. -0.00 min
Lab File: BE098194.D
Acq: 12 Nov 2018 17:36

Tgt Ion:252 Resp: 13012

Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.6	28.0
125	8.9	7.4	11.0





#38

Dibenzo(a,h)anthracene

Concen: 0.259 ng

RT: 26.73 min Scan# 3031

Delta R.T. 0.01 min

Lab File: BE098194.D

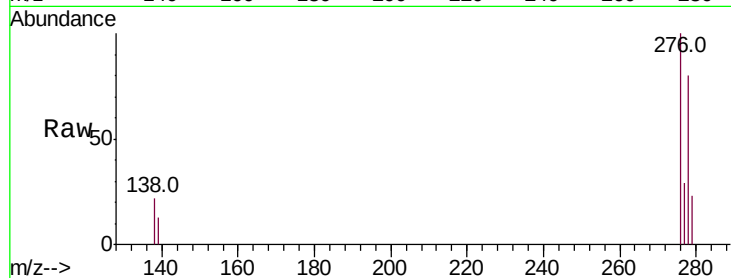
Acq: 12 Nov 2018 17:36

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SoilDL



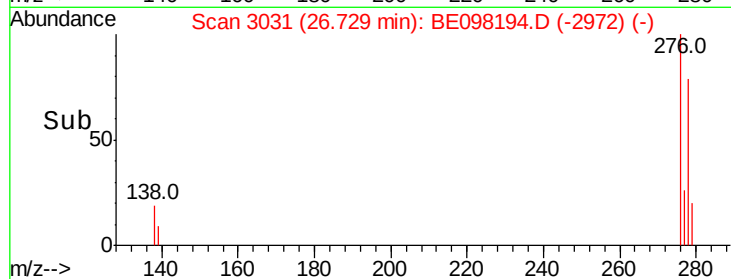
Tot Ion:278 Resp: 5278

Ion Ratio Lower Upper

278 100

139 16.6 16.4 24.6

279 28.8 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

