

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE111218\
 Data File : BE098193.D
 Acq On : 12 Nov 2018 16:59
 Operator : SJ/JU
 Sample : J5807-13DL 150X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PT-BNA-SoilDL

Quant Time: Nov 13 09:32:15 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	1062	0.40	ng	0.01
7) Naphthalene-d8	10.67	136	5045	0.40	ng	0.00
13) Acenaphthene-d10	14.53	164	3501	0.40	ng	0.00
19) Phenanthrene-d10	17.28	188	8230	0.40	ng	0.00
27) Chrysene-d12	21.46	240	9630	0.40	ng	0.00
34) Perylene-d12	24.01	264	9013	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.45	112	2738	0.91	ng	0.00
5) Phenol-d6	7.04	99	4944	1.03	ng	0.00
8) Nitrobenzene-d5	9.02	82	3462	0.69	ng	0.00
11) 2-Methylnaphthalene-d10	12.30	152	13	0.00	ng	0.03
14) 2,4,6-Tribromophenol	16.02	330	1605	1.05	ng	0.00
15) 2-Fluorobiphenyl	13.15	172	9307	0.63	ng	0.00
25) Fluoranthene-d10	19.30	212	7	0.00	ng	0.00
29) Terphenyl-d14	19.91	244	15301	0.70	ng	0.00

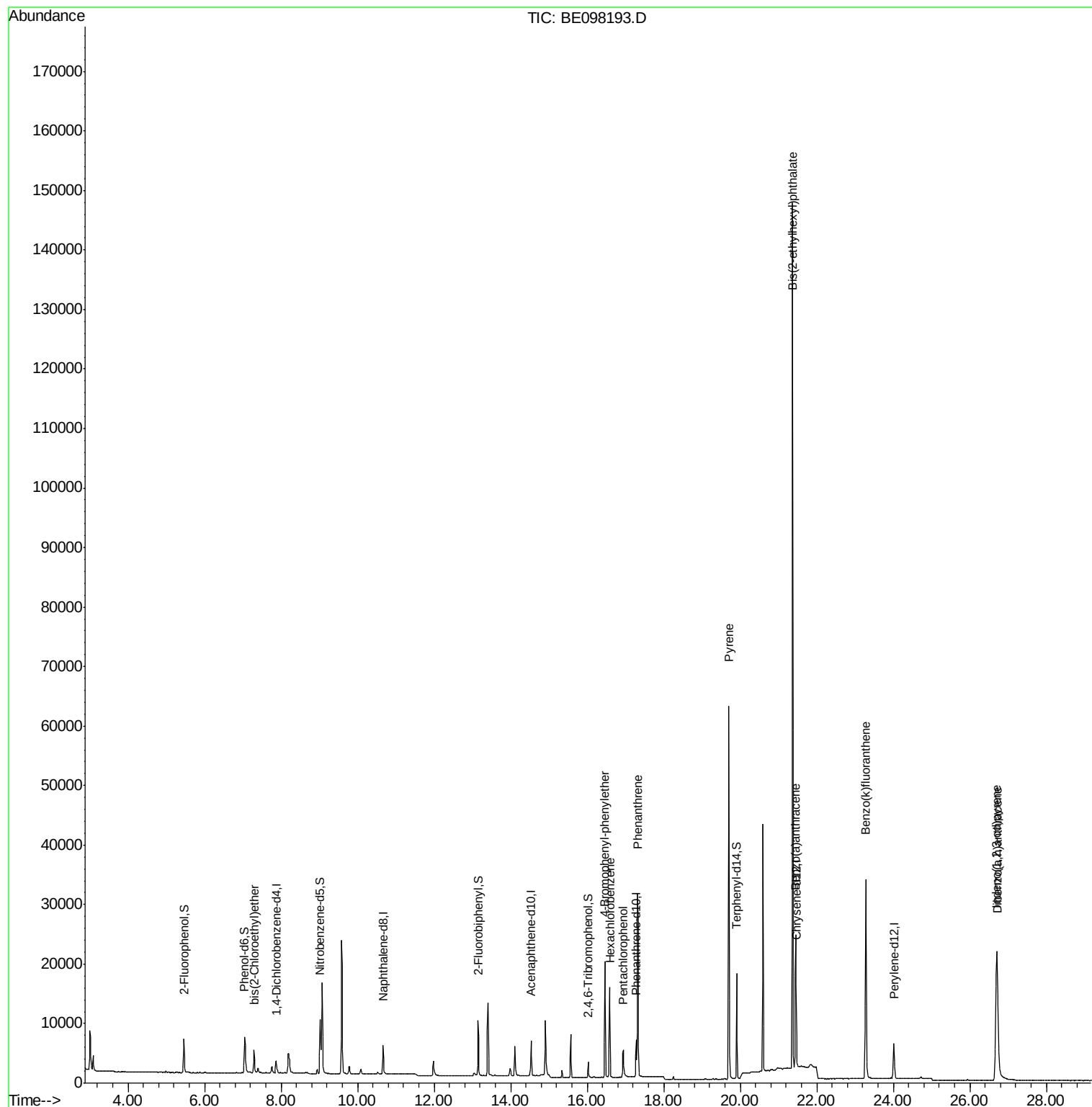
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) bis(2-Chloroethyl)ether	7.29	93	1267	0.326	ng	92
20) 4-Bromophenyl-phenylether	16.46	248	9758	1.946	ng	96
21) Hexachlorobenzene	16.59	284	12401	2.378	ng	98
22) Pentachlorophenol	16.94	266	3111	2.756	ng	90
23) Phenanthrene	17.31	178	34650	1.690	ng	100
28) Pyrene	19.70	202	55917	2.110	ng	99
30) Benzo(a)anthracene	21.45	228	19670	0.719	ng	100
32) Bis(2-ethylhexyl)phthalate	21.37	149	153725	2.705	ng	100
33) Indeno(1,2,3-cd)pyrene	26.69	276	48281	1.895	ng	# 94
36) Benzo(k)fluoranthene	23.28	252	48497	1.798	ng	98
38) Dibenzo(a,h)anthracene	26.72	278	20786	0.995	ng	# 91

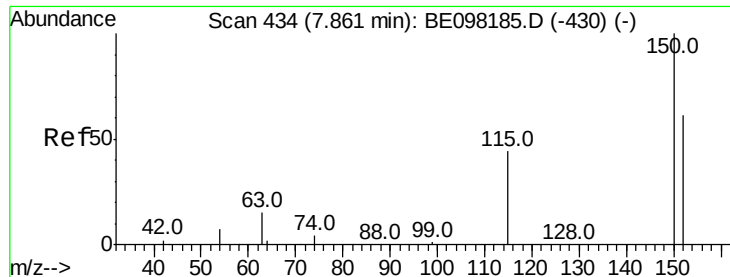
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE098193.D

Acq: 12 Nov 2018 16:59

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SoilDL

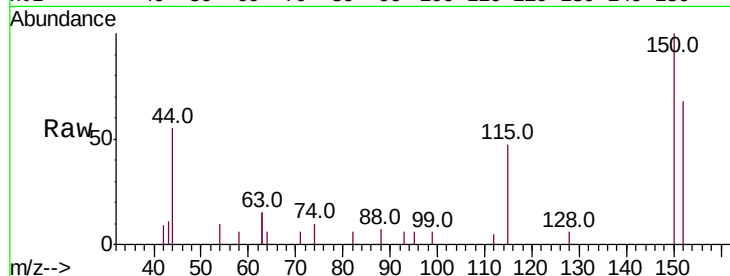
Tot Ion:152 Resp: 1062

Ion Ratio Lower Upper

152 100

150 146.8 127.5 191.3

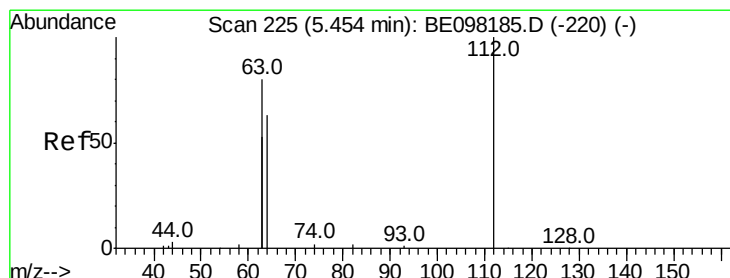
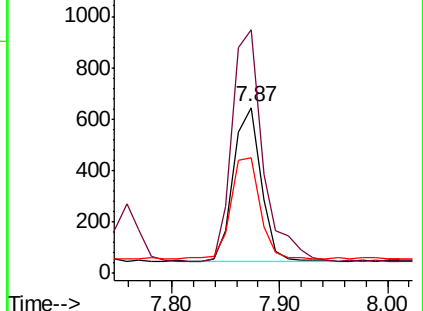
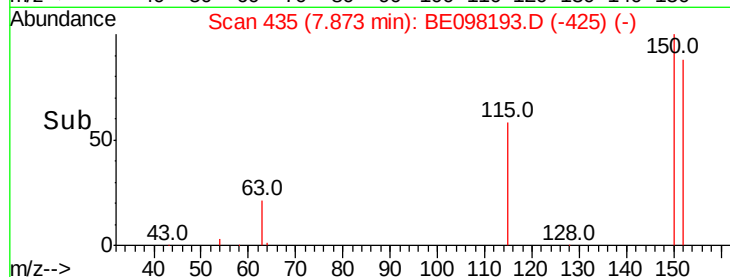
115 69.5 60.3 90.5



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: 0.913 ng

RT: 5.45 min Scan# 225

Delta R.T. 0.00 min

Lab File: BE098193.D

Acq: 12 Nov 2018 16:59

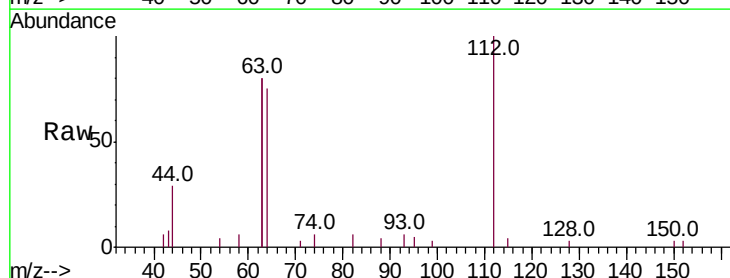
Tgt Ion:112 Resp: 2738

Ion Ratio Lower Upper

112 100

64 79.0 61.7 92.5

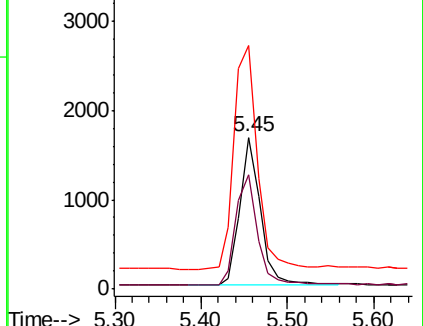
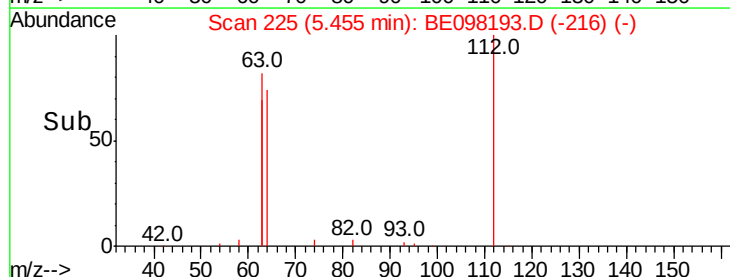
63 172.9 136.2 204.2

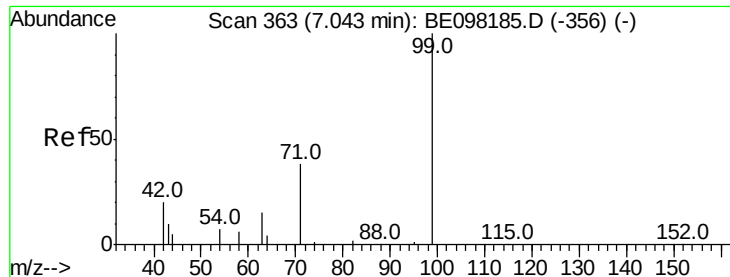


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 1.026 ng

RT: 7.04 min Scan# 363

Delta R.T. 0.00 min

Lab File: BE098193.D

Acq: 12 Nov 2018 16:59

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SoilDL

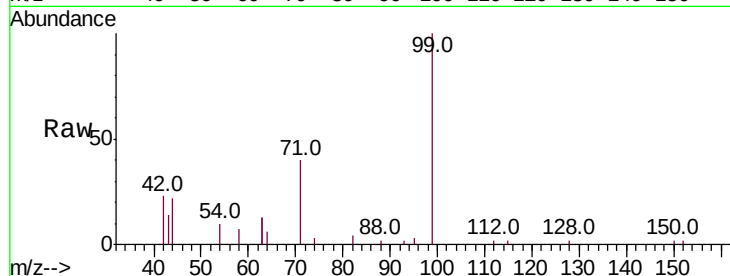
Tot Ion: 99 Resp: 4944

Ion Ratio Lower Upper

99 100

42 32.7 27.1 40.7

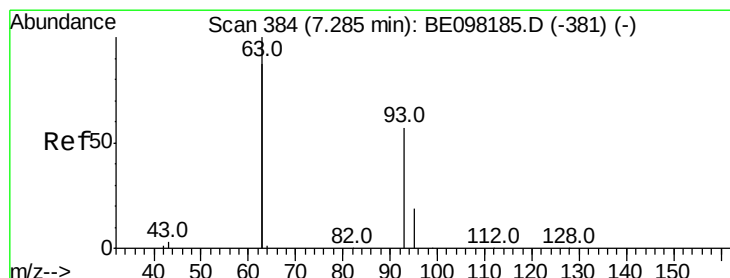
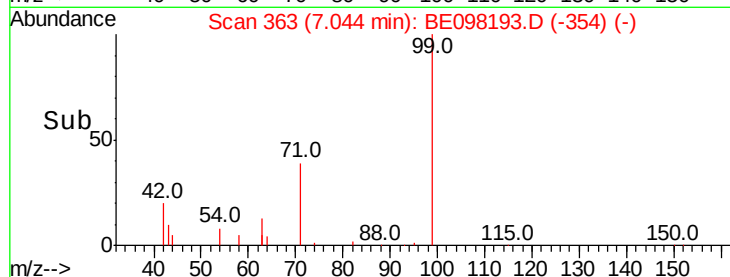
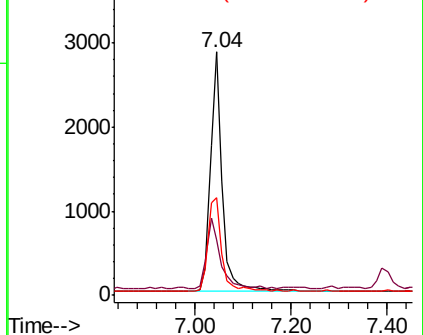
71 45.2 37.0 55.6



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: 0.326 ng

RT: 7.29 min Scan# 384

Delta R.T. 0.00 min

Lab File: BE098193.D

Acq: 12 Nov 2018 16:59

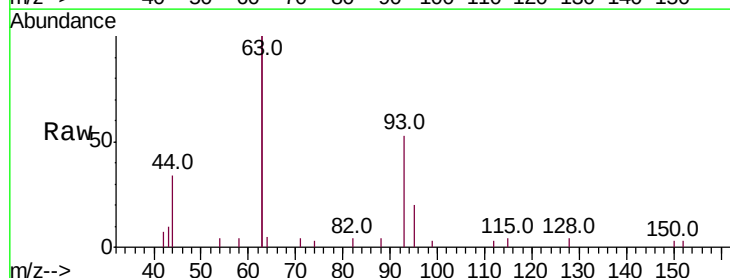
Tgt Ion: 93 Resp: 1267

Ion Ratio Lower Upper

93 100

63 358.3 272.6 409.0

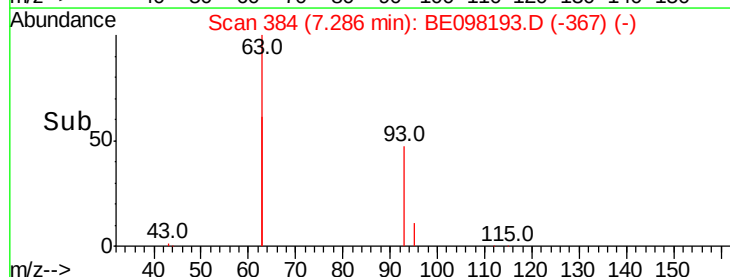
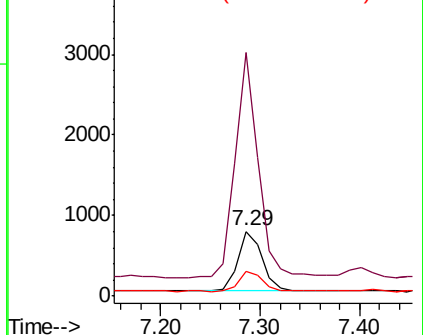
95 32.0 27.1 40.7

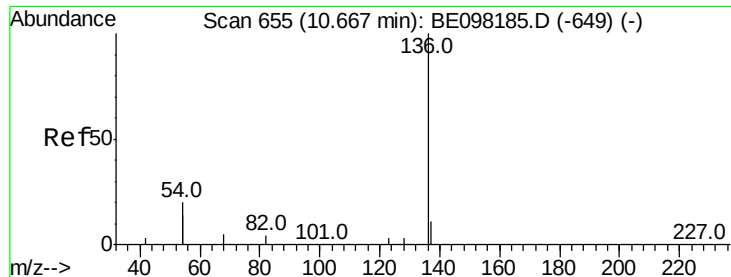


Abundance Ion 93.00 (92.70 to 93.70): BE0

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: BE098193.D

Acq: 12 Nov 2018 16:59

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SoilDL

Tot Ion:136 Resp: 5045

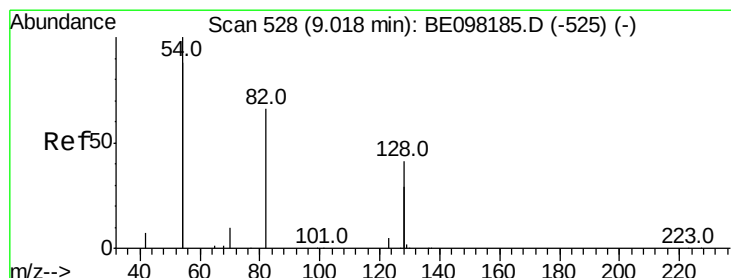
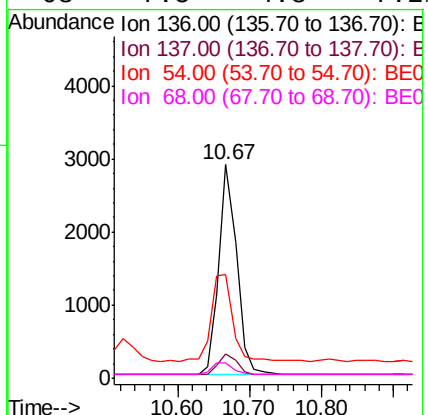
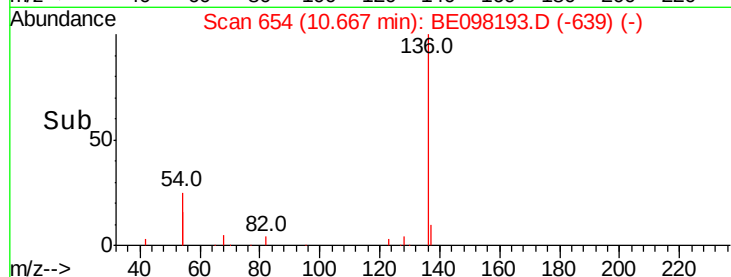
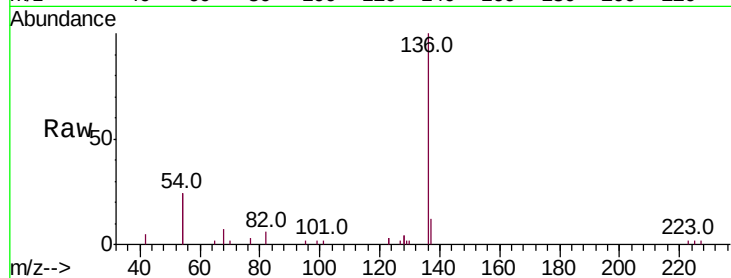
Ion Ratio Lower Upper

136 100

137 11.5 9.5 14.3

54 48.7 31.3 46.9#

68 7.5 4.8 7.2#



#8

Nitrobenzene-d5

Concen: 0.688 ng

RT: 9.02 min Scan# 527

Delta R.T. -0.00 min

Lab File: BE098193.D

Acq: 12 Nov 2018 16:59

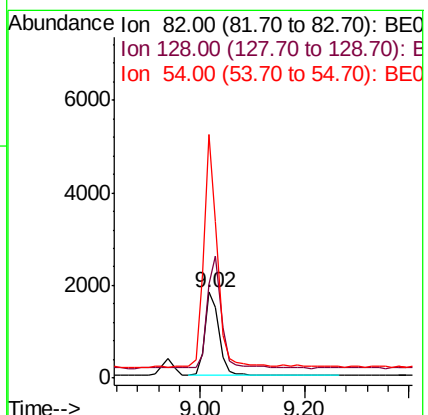
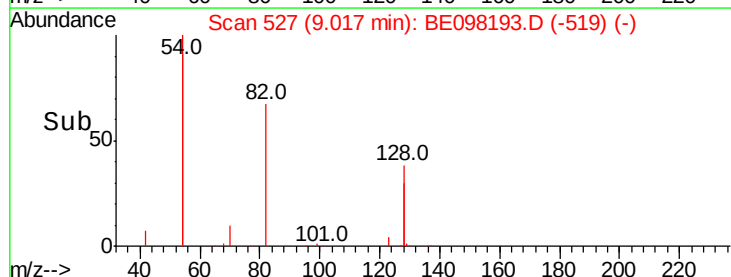
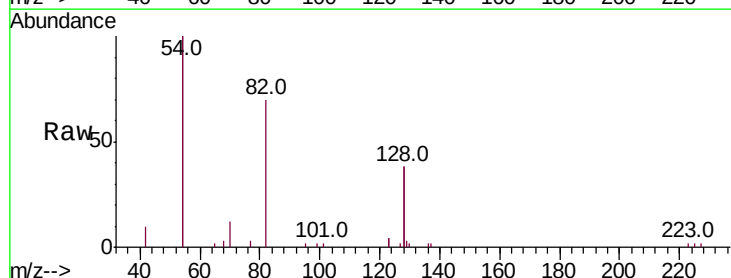
Tgt Ion: 82 Resp: 3462

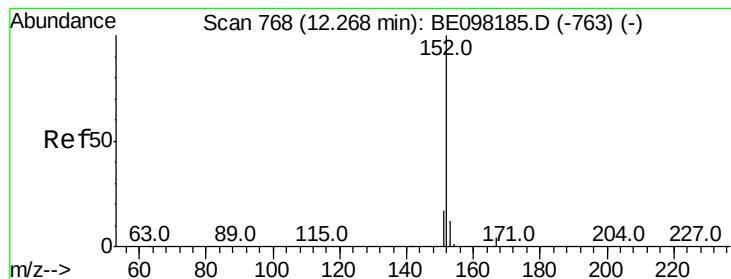
Ion Ratio Lower Upper

82 100

128 109.4 96.1 144.1

54 284.6 232.0 348.0





#11

2-Methylnaphthalene-d10

Concen: 0.001 ng

RT: 12.30 min Scan# 769

Delta R.T. 0.03 min

Lab File: BE098193.D

Acq: 12 Nov 2018 16:59

Instrument :

BNA_E

ClientSampleId :

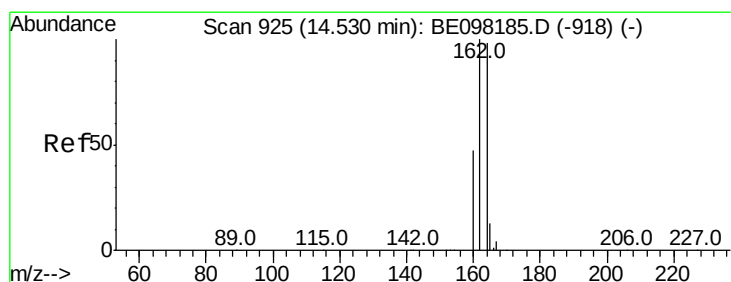
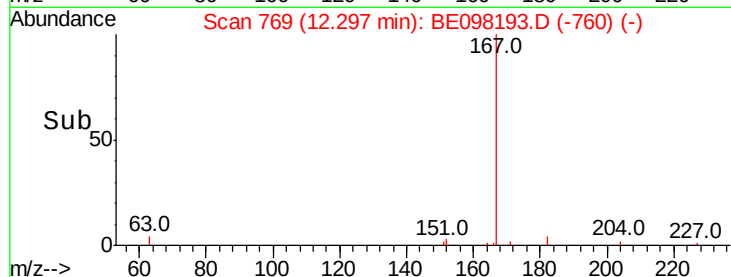
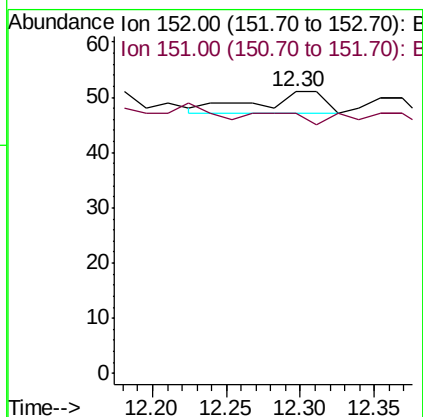
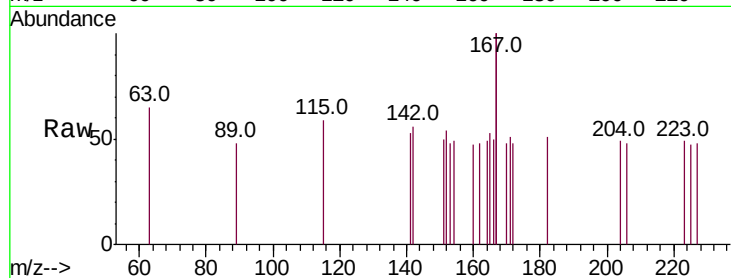
PT-BNA-SoilDL

Tot Ion:152 Resp: 13

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: BE098193.D

Acq: 12 Nov 2018 16:59

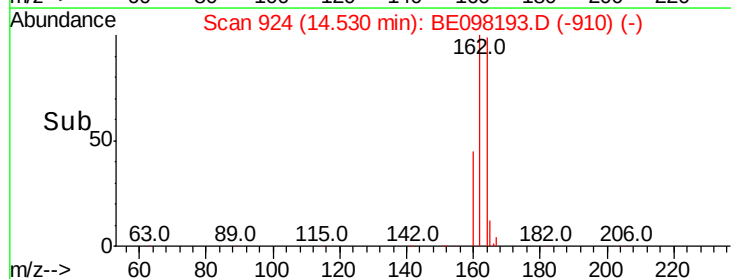
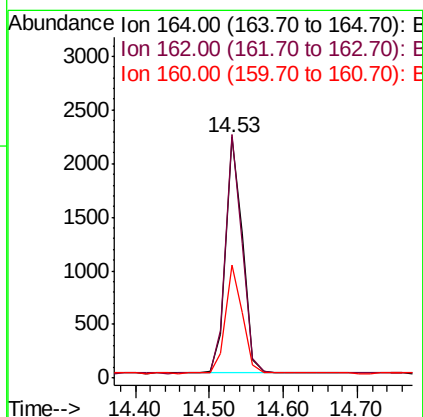
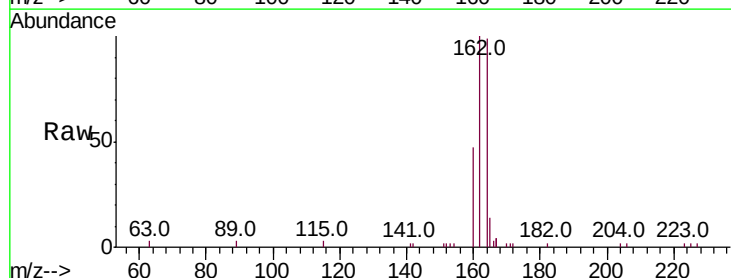
Tgt Ion:164 Resp: 3501

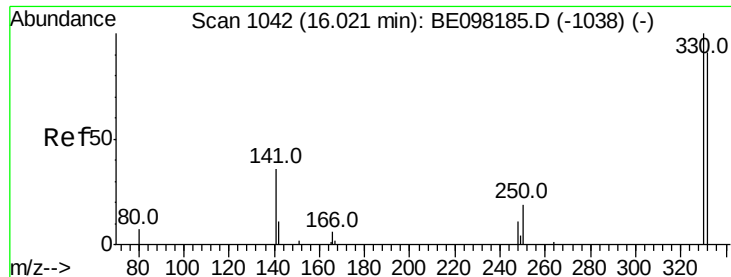
Ion Ratio Lower Upper

164 100

162 101.1 81.8 122.6

160 47.0 39.4 59.0





#14

2,4,6-Tribromophenol

Concen: 1.051 ng

RT: 16.02 min Scan# 1041

Delta R.T. -0.00 min

Lab File: BE098193.D

Acq: 12 Nov 2018 16:59

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SoilDL

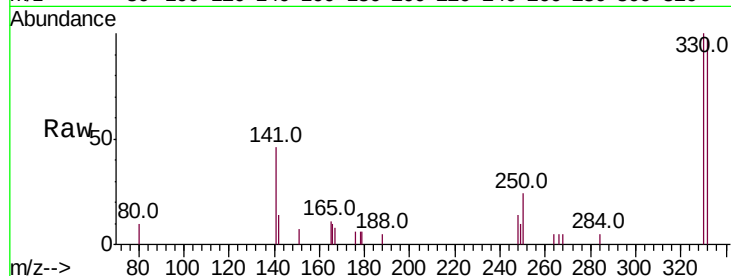
Tot Ion:330 Resp: 1605

Ion Ratio Lower Upper

330 100

332 98.0 77.7 116.5

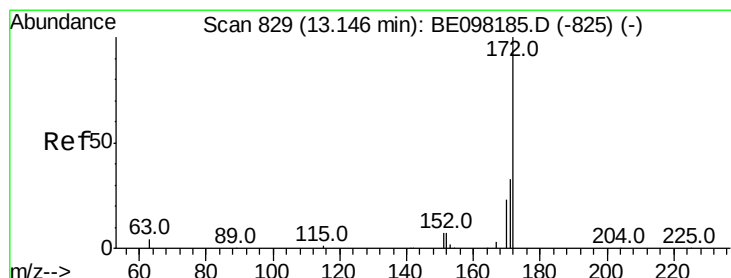
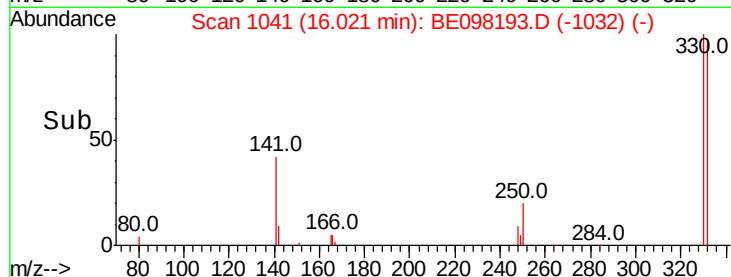
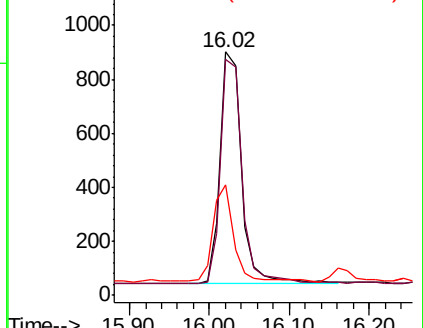
141 41.2 33.6 50.4



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: 0.635 ng

RT: 13.15 min Scan# 828

Delta R.T. 0.00 min

Lab File: BE098193.D

Acq: 12 Nov 2018 16:59

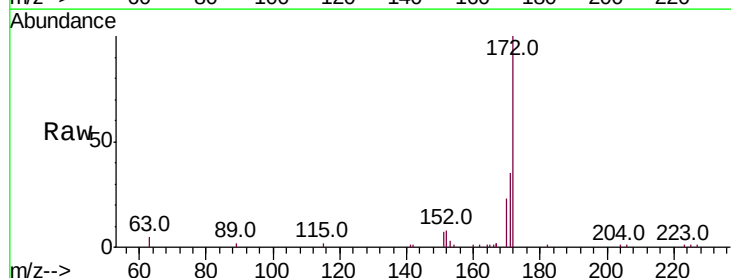
Tgt Ion:172 Resp: 9307

Ion Ratio Lower Upper

172 100

171 35.0 27.3 40.9

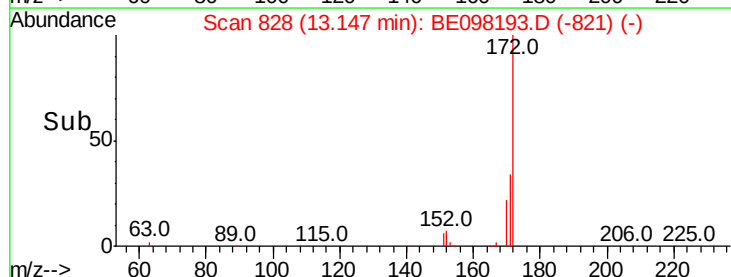
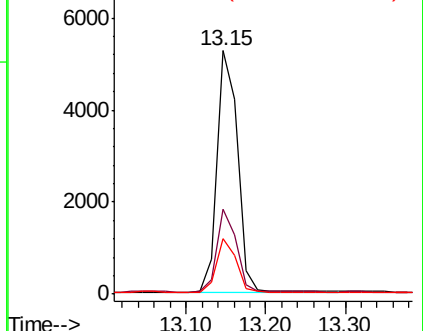
170 22.8 19.4 29.0

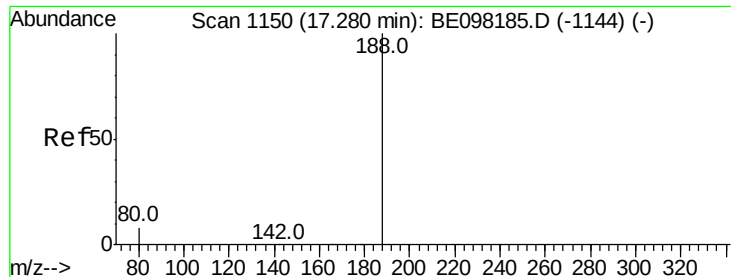


Abundance Ion 172.00 (171.70 to 172.70): E

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: BE098193.D

Acq: 12 Nov 2018 16:59

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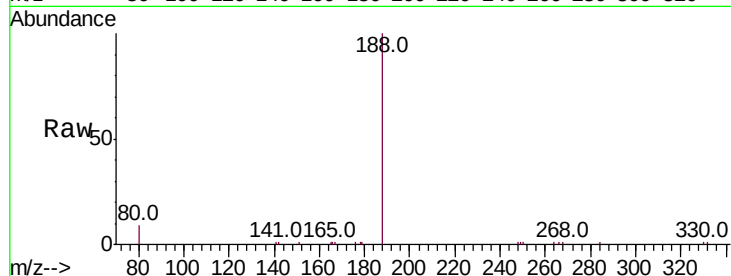
Tot Ion:188 Resp: 8230

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

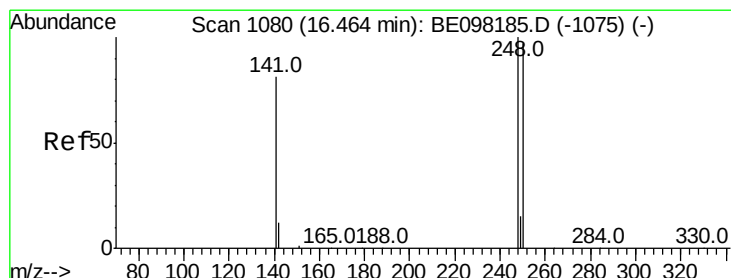
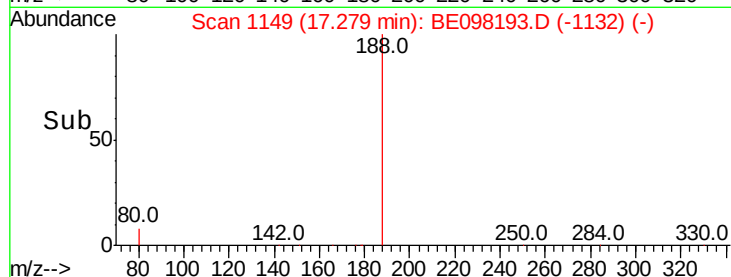
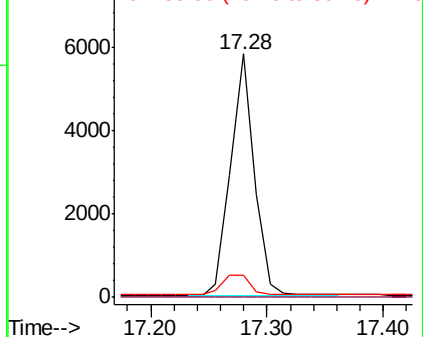
80 8.9 6.7 10.1



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: 1.946 ng

RT: 16.46 min Scan# 1079

Delta R.T. -0.00 min

Lab File: BE098193.D

Acq: 12 Nov 2018 16:59

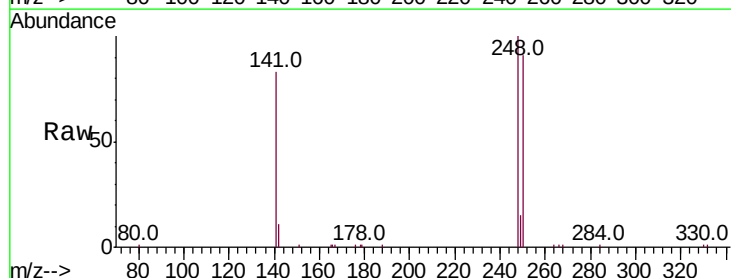
Tgt Ion:248 Resp: 9758

Ion Ratio Lower Upper

248 100

250 90.7 77.6 116.4

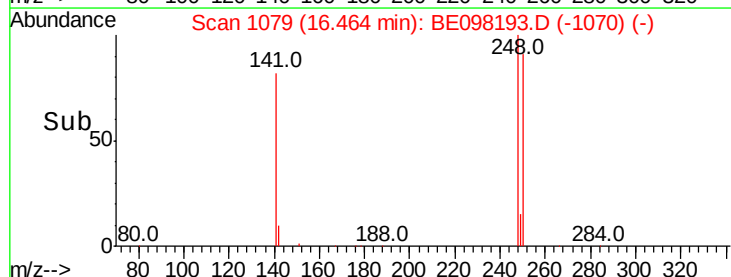
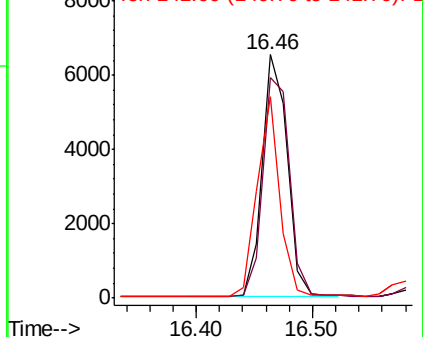
141 82.6 65.8 98.8

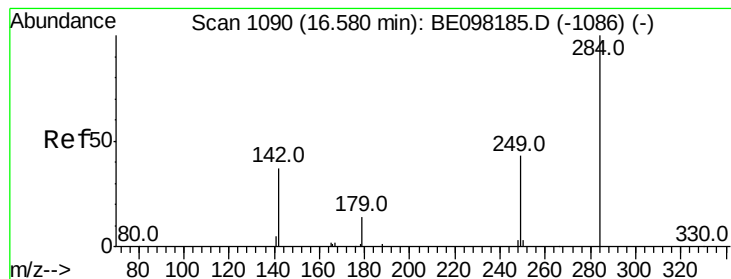


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 2.378 ng

RT: 16.59 min Scan# 1090

Delta R.T. 0.01 min

Lab File: BE098193.D

Acq: 12 Nov 2018 16:59

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SoilDL

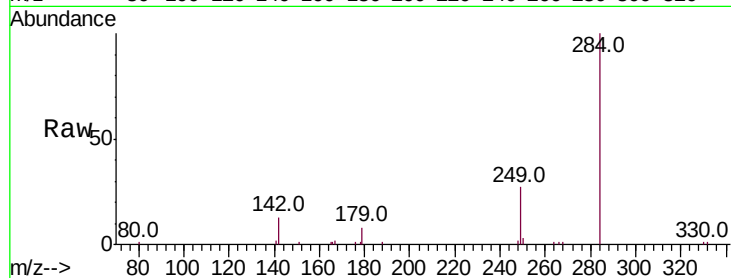
Tot Ion:284 Resp: 12401

Ion Ratio Lower Upper

284 100

142 32.4 26.5 39.7

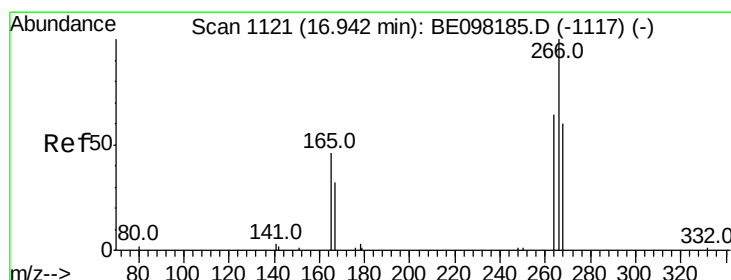
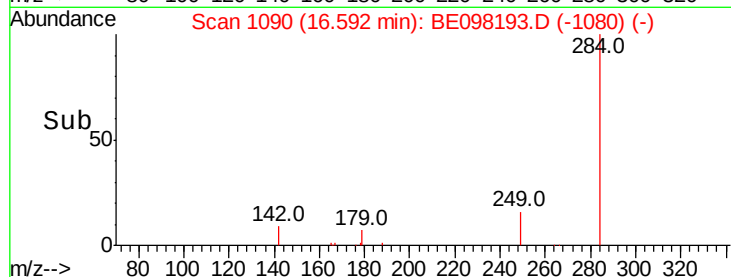
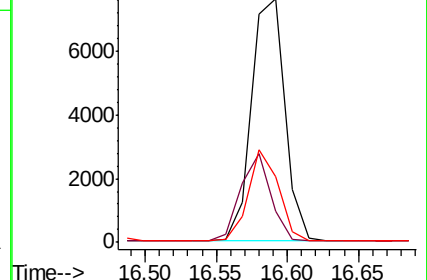
249 33.8 28.4 42.6



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: 2.756 ng

RT: 16.94 min Scan# 1120

Delta R.T. 0.00 min

Lab File: BE098193.D

Acq: 12 Nov 2018 16:59

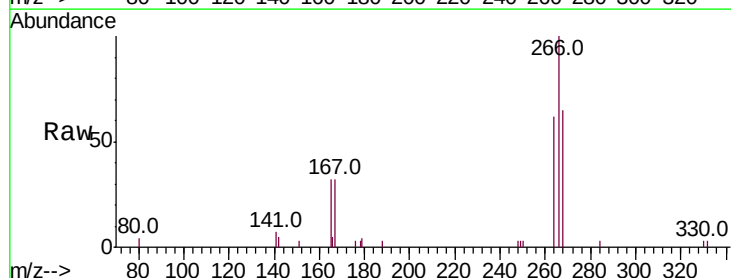
Tgt Ion:266 Resp: 3111

Ion Ratio Lower Upper

266 100

264 61.5 57.6 86.4

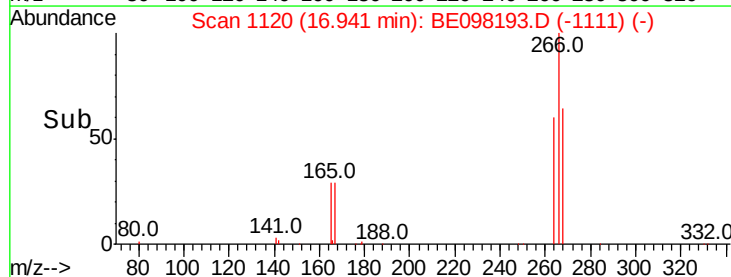
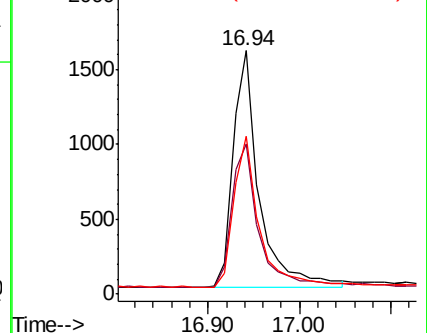
268 64.9 56.8 85.2

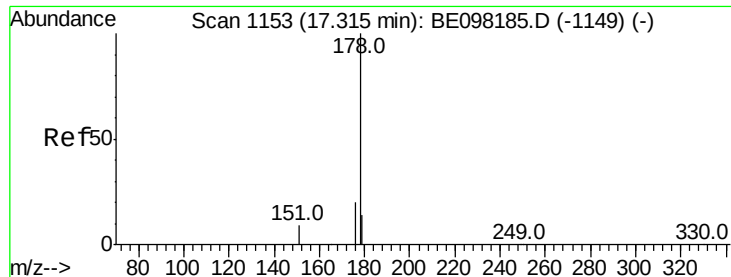


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 1.690 ng

RT: 17.31 min Scan# 1152

Delta R.T. -0.00 min

Lab File: BE098193.D

Acq: 12 Nov 2018 16:59

Instrument :

BNA_E

ClientSampleID :

PT-BNA-SoilDL

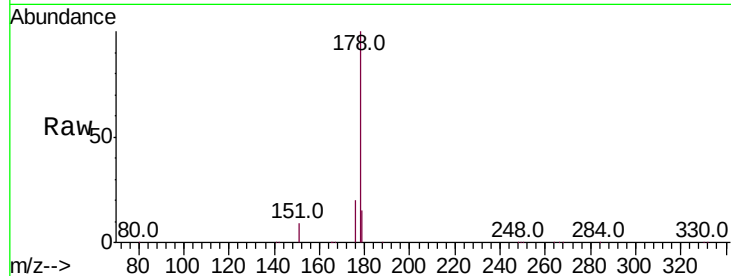
Tot Ion:178 Resp: 34650

Ion Ratio Lower Upper

178 100

176 19.6 15.8 23.8

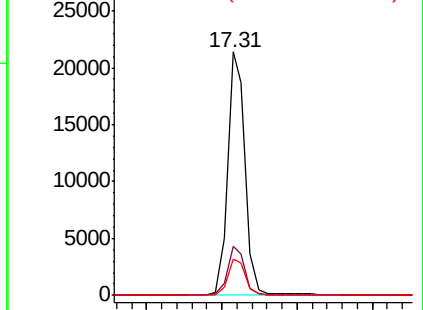
179 15.1 12.3 18.5



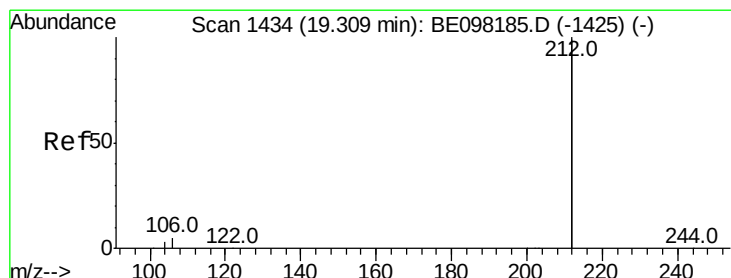
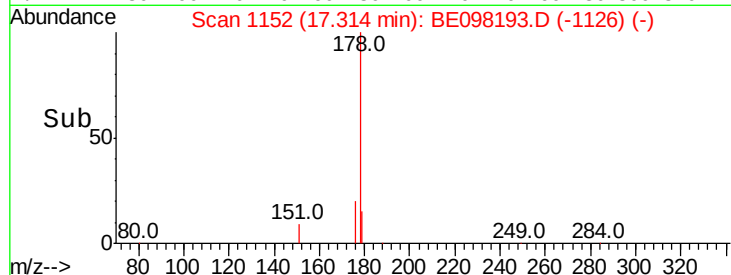
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->



#25

Fluoranthene-d10

Concen: 0.000 ng

RT: 19.30 min Scan# 1432

Delta R.T. -0.01 min

Lab File: BE098193.D

Acq: 12 Nov 2018 16:59

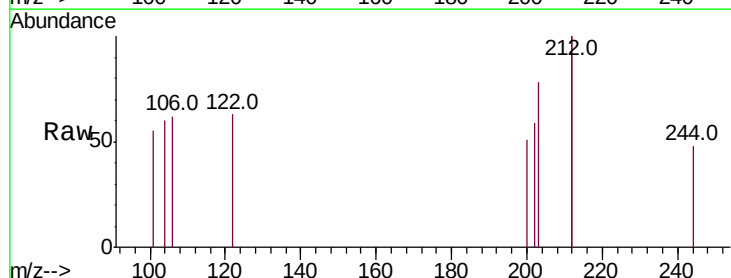
Tgt Ion:212 Resp: 7

Ion Ratio Lower Upper

212 100

106 114.3 1.8 2.8#

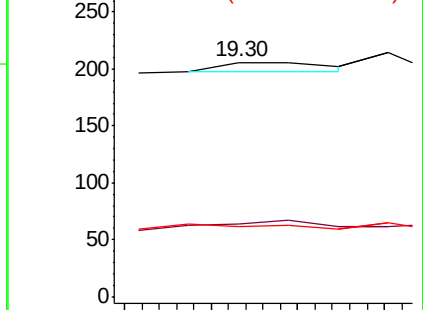
104 57.1 1.1 1.7#



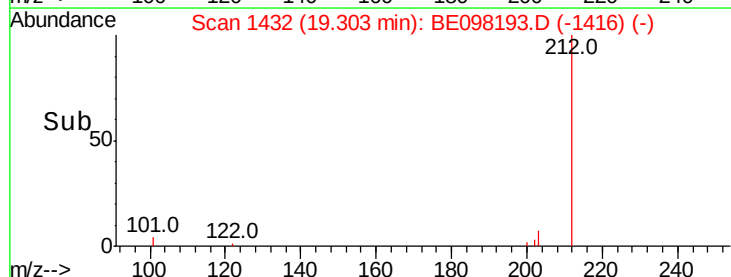
Abundance Ion 212.00 (211.70 to 212.70): E

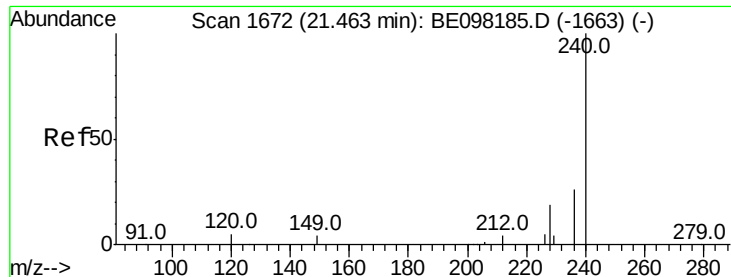
Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E



Time-->





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.46 min Scan# 1671

Delta R.T. 0.00 min

Lab File: BE098193.D

Acq: 12 Nov 2018 16:59

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SoilDL

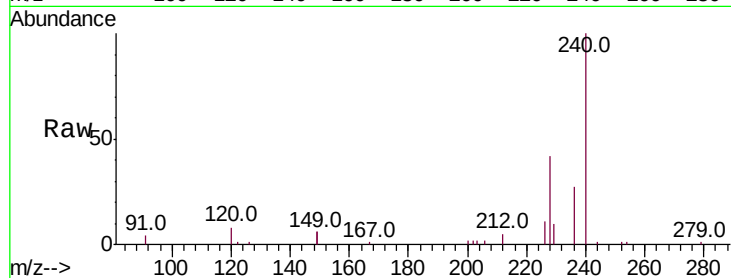
Tot Ion:240 Resp: 9630

Ion Ratio Lower Upper

240 100

120 7.7 4.8 7.2#

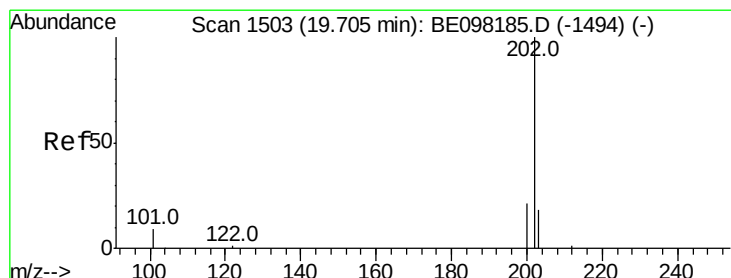
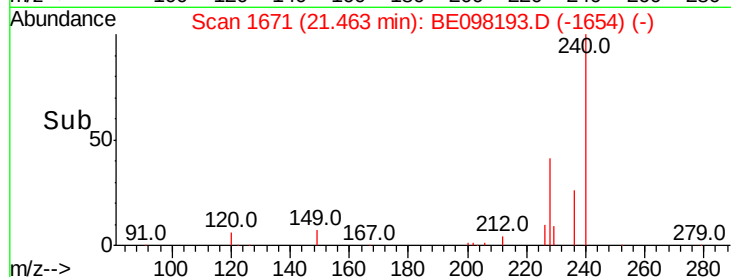
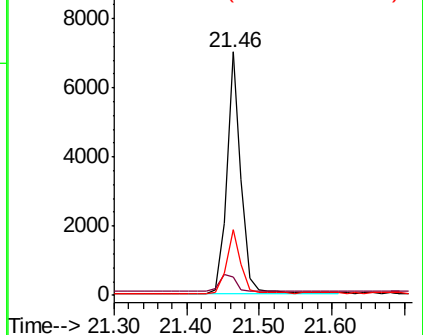
236 26.9 21.4 32.0



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: 2.110 ng

RT: 19.70 min Scan# 1501

Delta R.T. -0.01 min

Lab File: BE098193.D

Acq: 12 Nov 2018 16:59

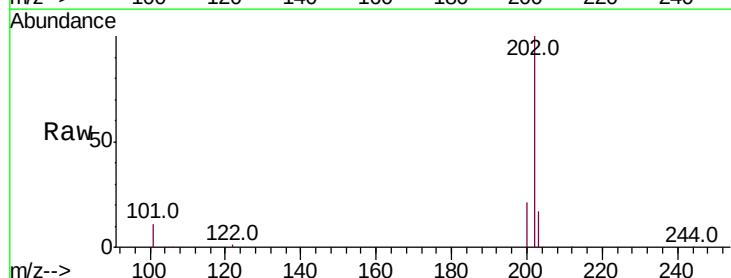
Tgt Ion:202 Resp: 55917

Ion Ratio Lower Upper

202 100

200 21.3 17.2 25.8

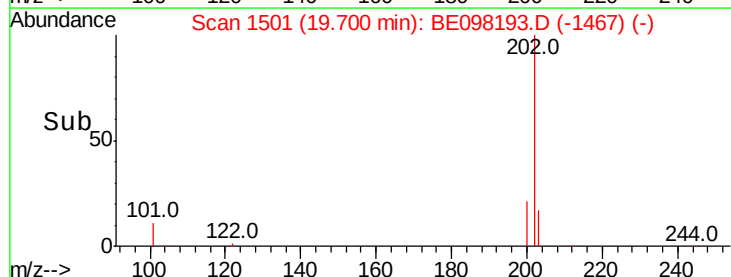
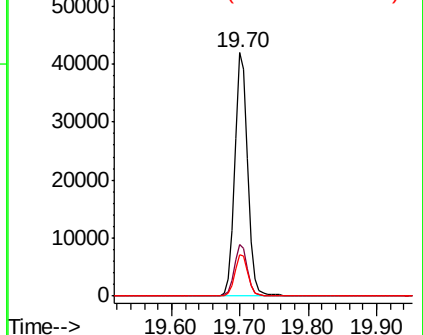
203 17.3 14.2 21.4

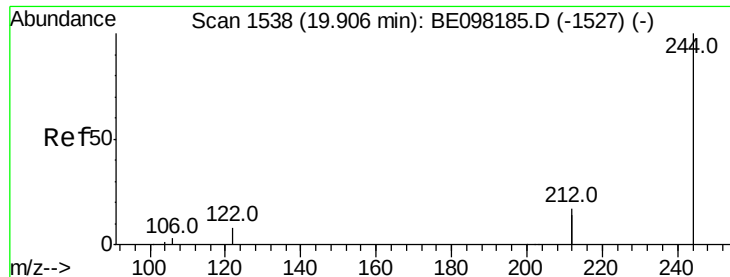


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.700 ng

RT: 19.91 min Scan# 1537

Delta R.T. 0.00 min

Lab File: BE098193.D

Acq: 12 Nov 2018 16:59

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SoilDL

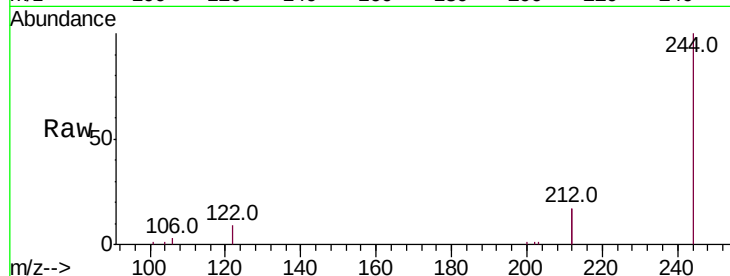
Tot Ion:244 Resp: 15301

Ion Ratio Lower Upper

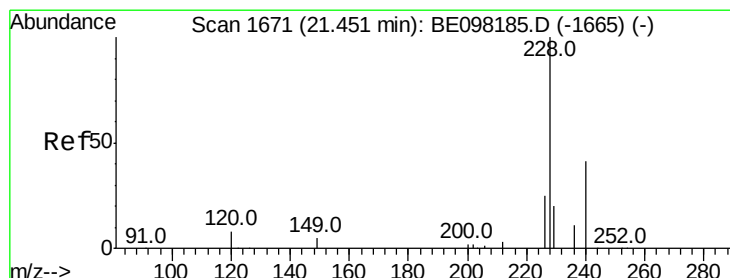
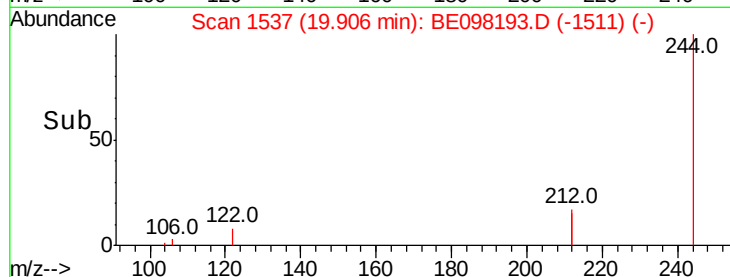
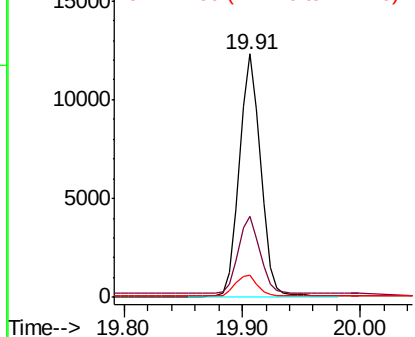
244 100

212 33.1 26.8 40.2

122 8.9 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: 0.719 ng

RT: 21.45 min Scan# 1670

Delta R.T. 0.00 min

Lab File: BE098193.D

Acq: 12 Nov 2018 16:59

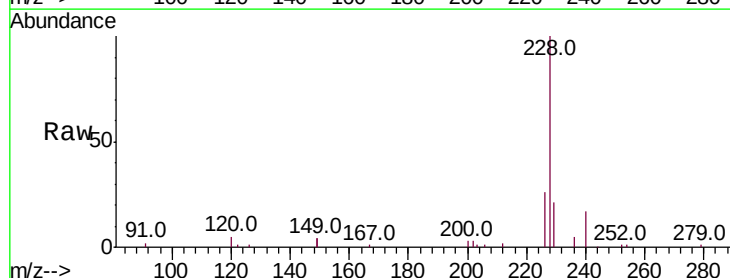
Tgt Ion:228 Resp: 19670

Ion Ratio Lower Upper

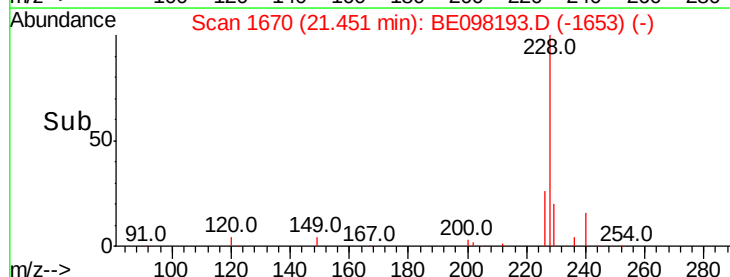
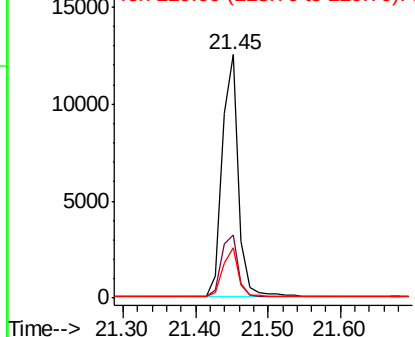
228 100

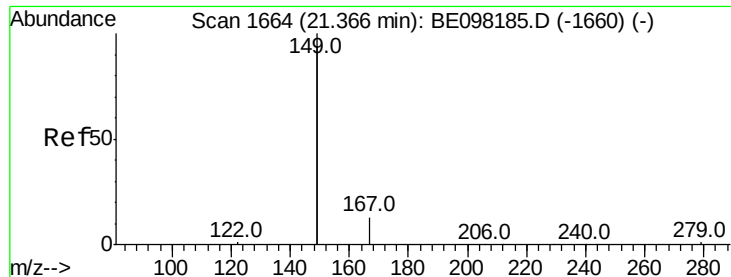
226 26.1 20.7 31.1

229 20.5 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: 2.705 ng

RT: 21.37 min Scan# 1663

Delta R.T. 0.00 min

Lab File: BE098193.D

Acq: 12 Nov 2018 16:59

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SoilDL

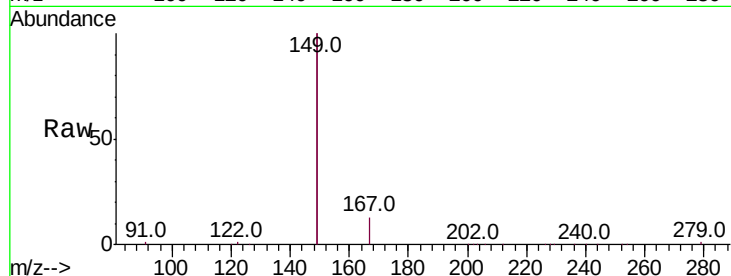
Tot Ion:149 Resp: 153725

Ion Ratio Lower Upper

149 100

167 6.9 5.6 8.4

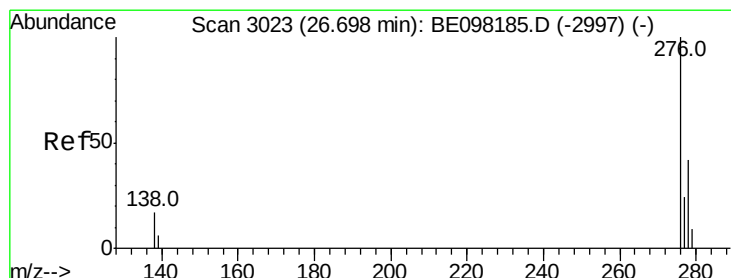
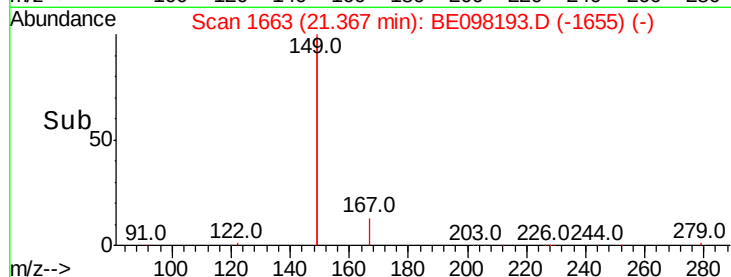
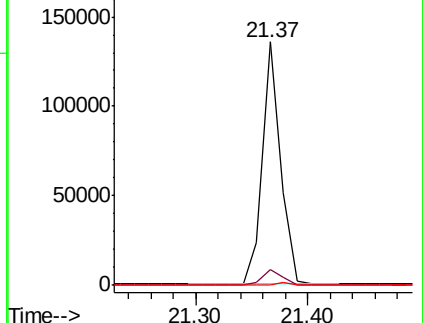
279 1.1 0.9 1.3



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: 1.895 ng

RT: 26.69 min Scan# 3021

Delta R.T. -0.00 min

Lab File: BE098193.D

Acq: 12 Nov 2018 16:59

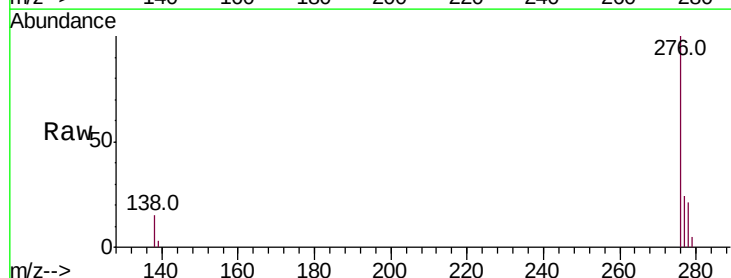
Tgt Ion:276 Resp: 48281

Ion Ratio Lower Upper

276 100

138 15.6 6.4 9.6#

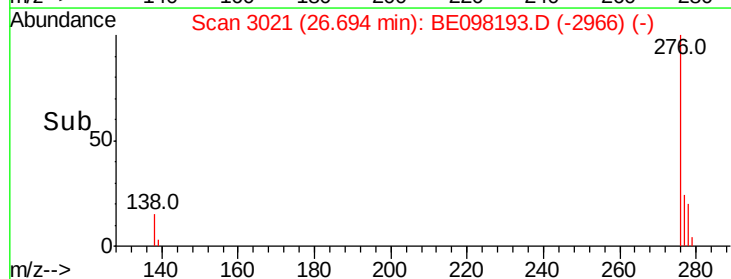
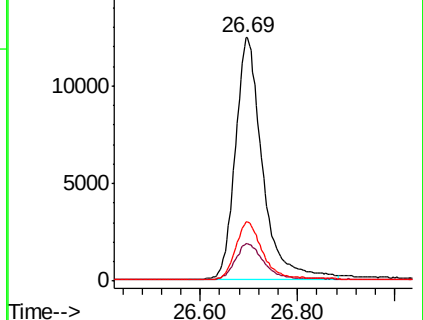
277 24.0 18.9 28.3

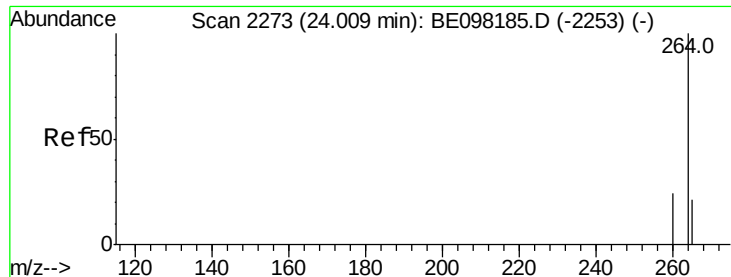


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

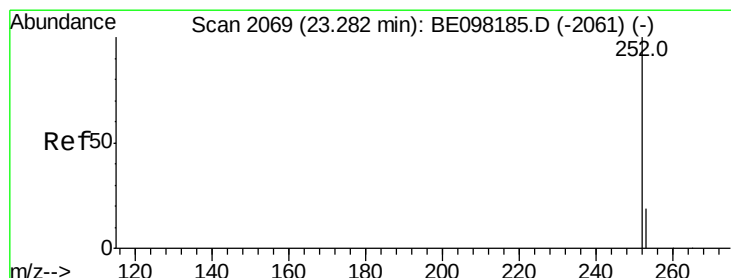
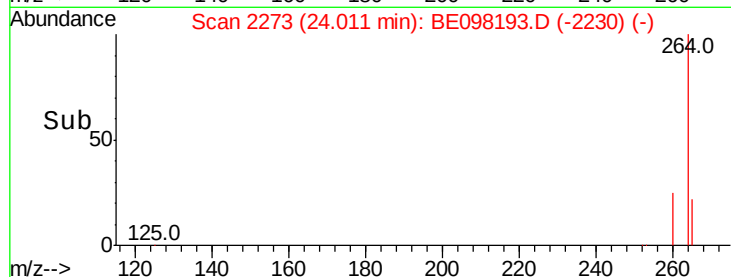
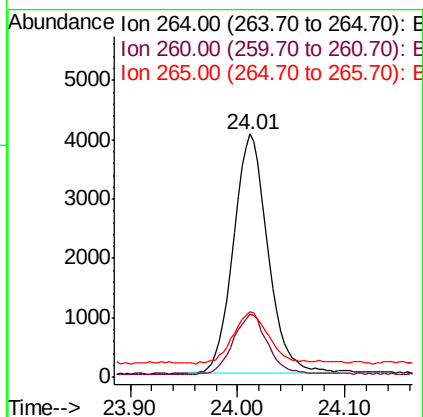
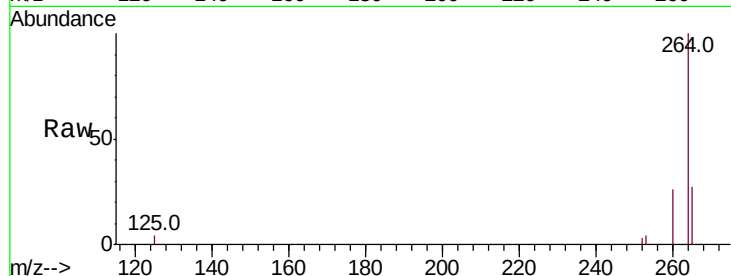




#34
Pervlene-d12
Concen: 0.400 ng
RT: 24.01 min Scan# 2273
Delta R.T. 0.00 min
Lab File: BE098193.D
Acq: 12 Nov 2018 16:59

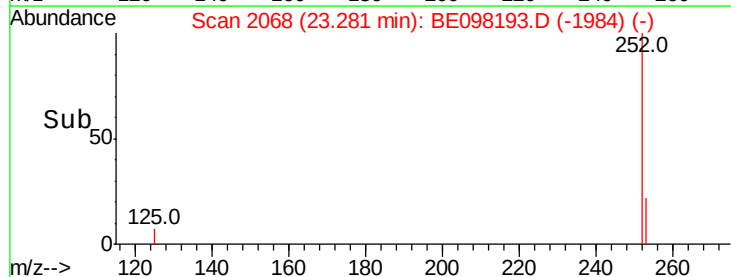
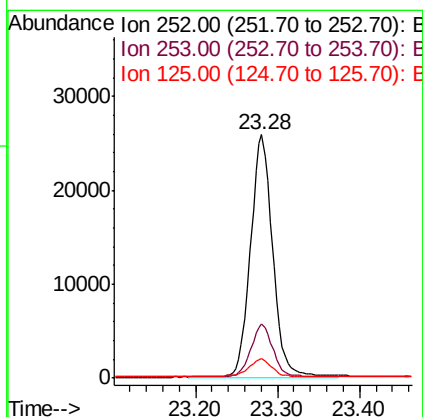
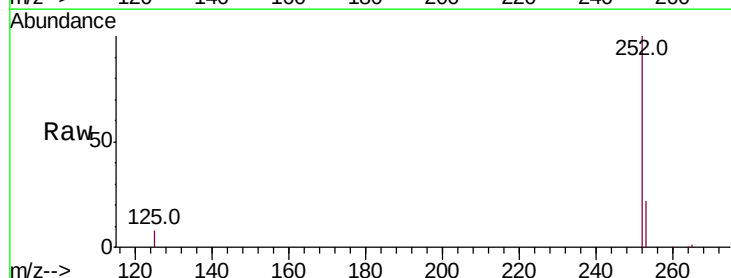
Instrument :
BNA_E
ClientSampleID :
PT-BNA-SoilDL

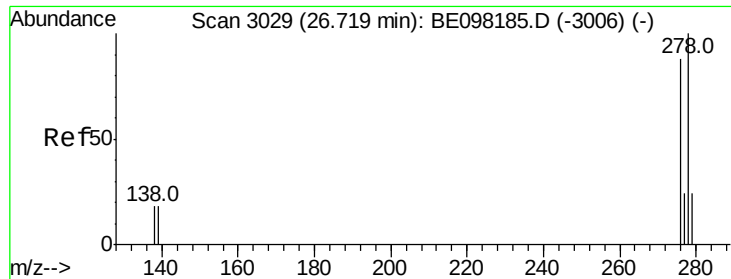
Tot Ion:264 Resp: 9013
Ion Ratio Lower Upper
264 100
260 26.0 19.9 29.9
265 27.1 21.3 31.9



#36
Benzo(k)fluoranthene
Concen: 1.798 ng
RT: 23.28 min Scan# 2068
Delta R.T. -0.00 min
Lab File: BE098193.D
Acq: 12 Nov 2018 16:59

Tgt Ion:252 Resp: 48497
Ion Ratio Lower Upper
252 100
253 22.3 18.6 28.0
125 8.1 7.4 11.0





#38

Dibenzo(a,h)anthracene

Concen: 0.995 ng

RT: 26.72 min Scan# 3028

Delta R.T. -0.00 min

Lab File: BE098193.D

Acq: 12 Nov 2018 16:59

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SoilDL

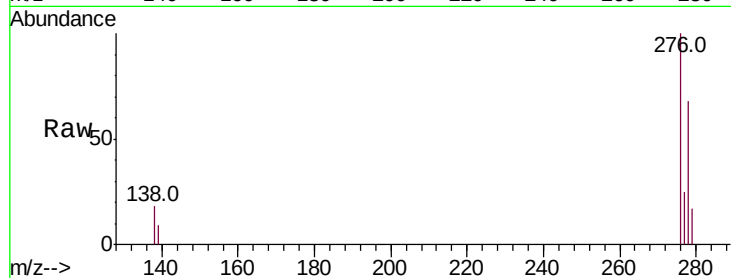
Tot Ion:278 Resp: 20786

Ion Ratio Lower Upper

278 100

139 13.3 16.4 24.6#

279 24.4 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

