

Data Path : Z:\SVOASRV\HPCHEM1\BNA_E\DATA\BE121418\
 Data File : BE098446.D
 Acq On : 14 Dec 2018 21:31
 Operator : SJ/JU
 Sample : J6335-10
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 BP-TT-AOC22-MW03-20181208

Quant Time: Dec 14 23:33:10 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_E\METHODS\8270-SIM-BE121018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Dec 10 14:59:55 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.85	152	1473	0.40	ng	-0.01
7) Naphthalene-d8	10.65	136	7022	0.40	ng	-0.01
13) Acenaphthene-d10	14.53	164	26737	0.40	ng	0.00
19) Phenanthrene-d10	17.27	188	9049	0.40	ng	-0.01
27) Chrysene-d12	21.46	240	9946	0.40	ng	0.00
34) Perylene-d12	24.00	264	8680	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.44	112	1247	0.36	ng	0.00
5) Phenol-d6	7.03	99	722	0.15	ng	-0.01
8) Nitrobenzene-d5	9.00	82	3162	0.49	ng	-0.01
11) 2-Methylnaphthalene-d10	12.25	152	6139	0.54	ng	-0.02
14) 2,4,6-Tribromophenol	16.02	330	1036	0.11	ng	0.00
15) 2-Fluorobiphenyl	13.14	172	7222	0.06	ng	0.00
25) Fluoranthene-d10	19.31	212	49681	0.43	ng	0.00
29) Terphenyl-d14	19.90	244	5751	0.24	ng	0.00

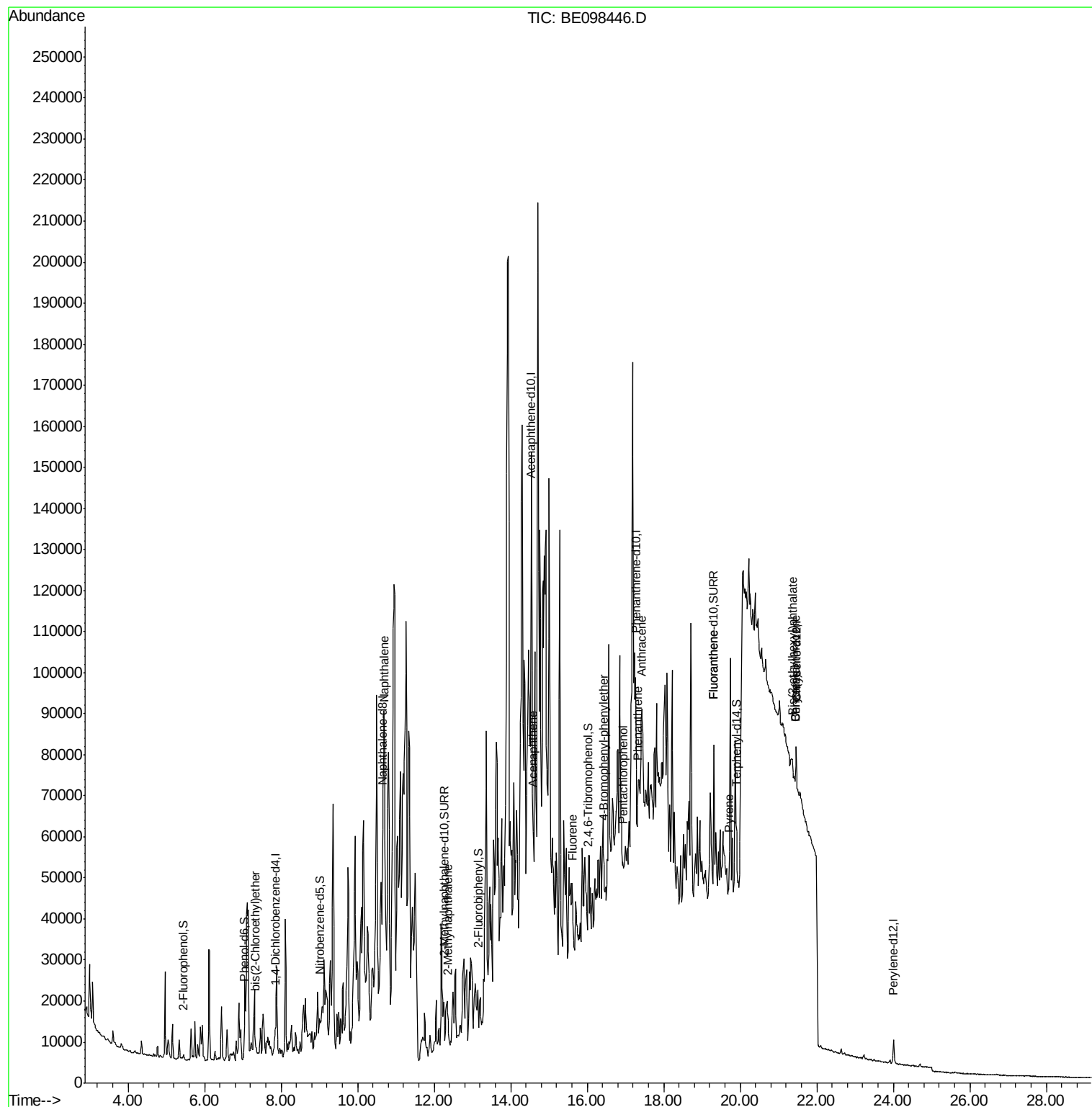
Target Compounds				Qvalue		
6) bis(2-Chloroethyl)ether	7.32	93	180	0.039	ng	# 62
9) Naphthalene	10.70	128	61549	0.871	ng	# 84
12) 2-Methylnaphthalene	12.37	142	1611	0.140	ng	# 1
17) Acenaphthene	14.59	154	1821	0.024	ng	94
18) Fluorene	15.61	166	5767	0.057	ng	# 82
20) 4-Bromophenyl-phenylether	16.44	248	604	0.124	ng	# 1
22) Pentachlorophenol	16.94	266	168	0.218	ng	# 75
23) Phenanthrene	17.31	178	3266	0.149	ng	# 1
24) Anthracene	17.41	178	3336	0.170	ng	# 1
26) Fluoranthene	19.32	202	626	0.022	ng	# 65
28) Pyrene	19.71	202	1141	0.037	ng	# 57
30) Benzo(a)anthracene	21.45	228	2204	0.078	ng	# 1
31) Chrysene	21.45	228	1950	0.066	ng	# 1
32) Bis(2-ethylhexyl)phthalate	21.37	149	5819	0.101	ng	# 82

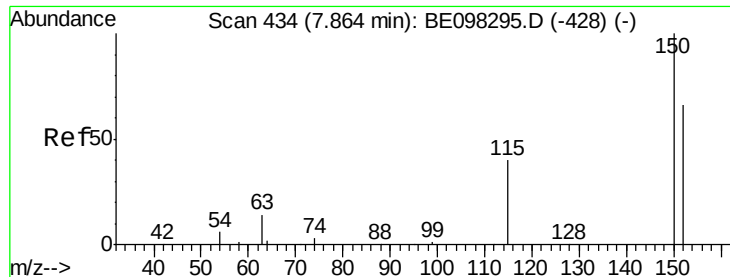
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.85 min Scan# 433

Delta R.T. -0.01 min

Lab File: BE098446.D

Acq: 14 Dec 2018 21:31

Instrument :

BNA_G

ClientSampleId :

BP-TT-AOC22-MW03-20181208

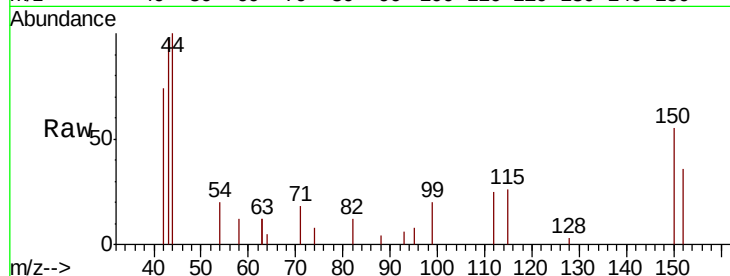
Tgt Ion:152 Resp: 1473

Ion Ratio Lower Upper

152 100

150 151.7 124.2 186.4

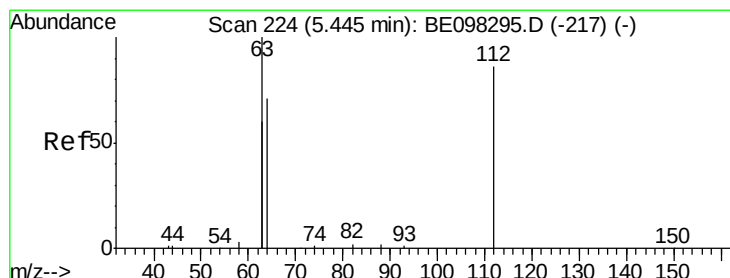
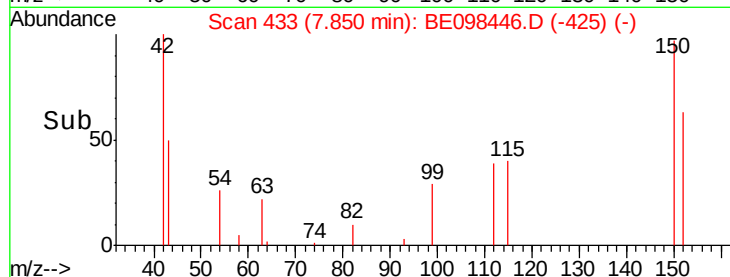
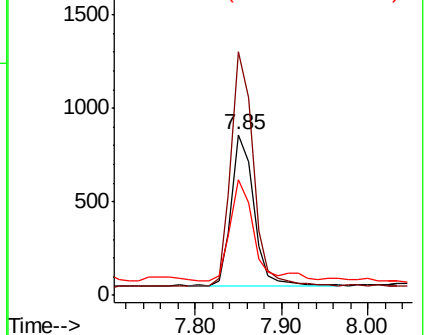
115 71.8 53.9 80.9



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: 0.362 ng

RT: 5.44 min Scan# 224

Delta R.T. -0.00 min

Lab File: BE098446.D

Acq: 14 Dec 2018 21:31

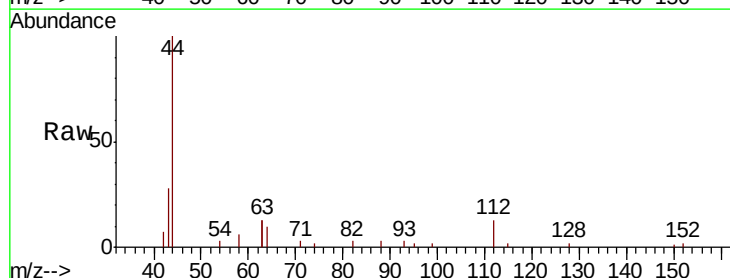
Tgt Ion:112 Resp: 1247

Ion Ratio Lower Upper

112 100

64 46.8 59.8 89.8#

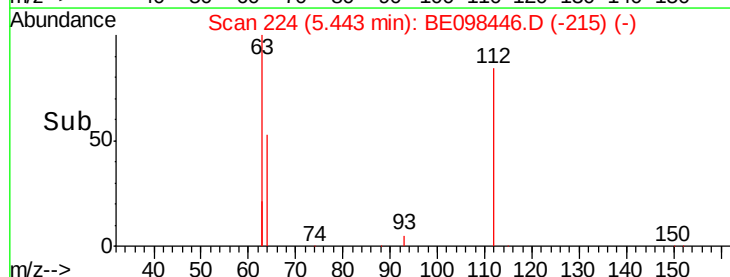
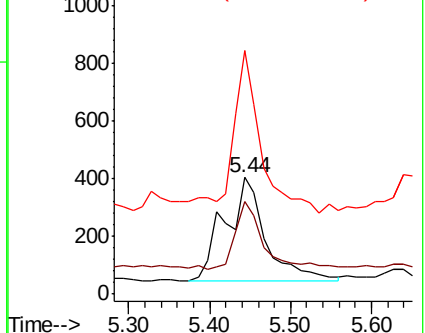
63 106.7 133.7 200.5#

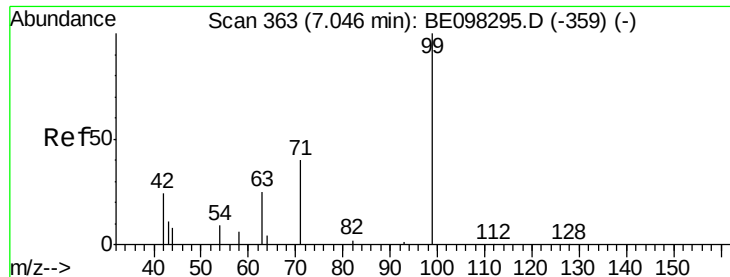


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.148 ng

RT: 7.03 min Scan# 362

Delta R.T. -0.01 min

Lab File: BE098446.D

Acq: 14 Dec 2018 21:31

Instrument :

BNA_G

ClientSampleId :

BP-TT-AOC22-MW03-20181208

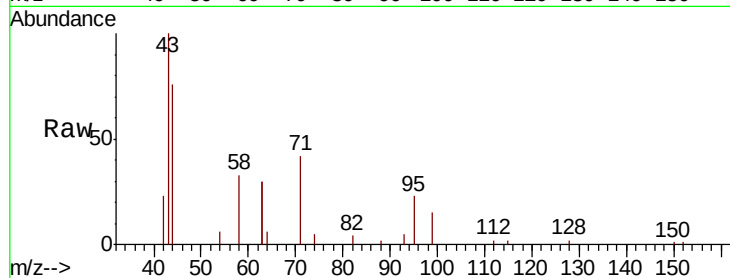
Tgt Ion: 99 Resp: 722

Ion Ratio Lower Upper

99 100

42 215.2 26.3 39.5#

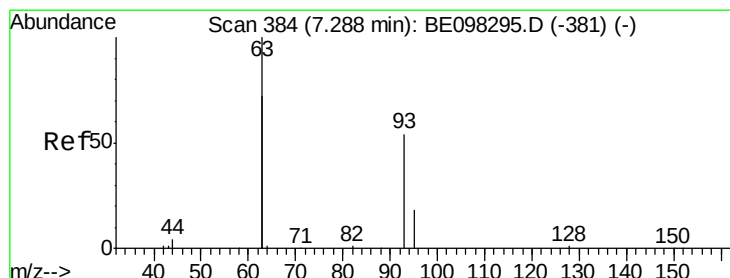
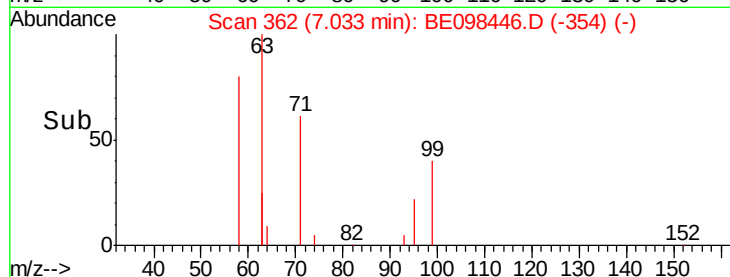
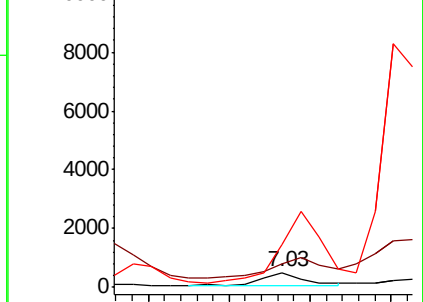
71 626.6 33.6 50.4#



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: 0.039 ng

RT: 7.32 min Scan# 387

Delta R.T. 0.03 min

Lab File: BE098446.D

Acq: 14 Dec 2018 21:31

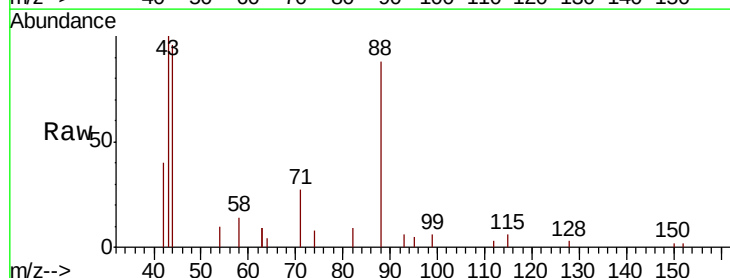
Tgt Ion: 93 Resp: 180

Ion Ratio Lower Upper

93 100

63 255.6 264.4 396.6#

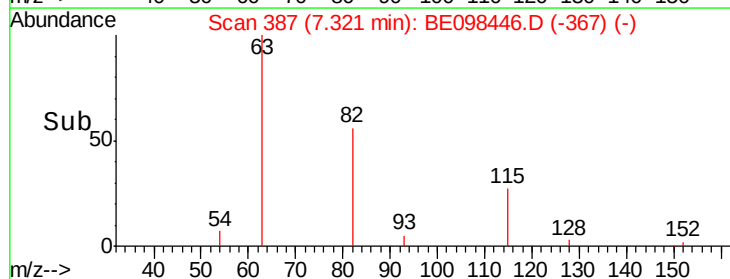
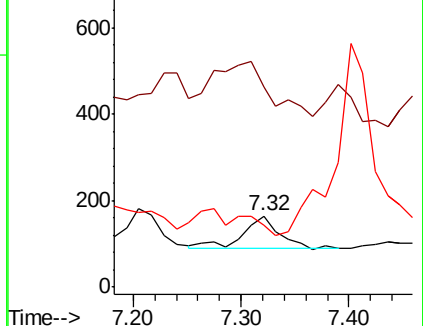
95 0.0 26.6 40.0#

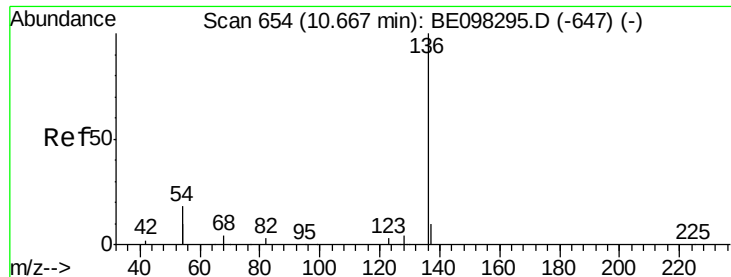


Abundance Ion 93.00 (92.70 to 93.70): BE0

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: 10.65 min Scan# 653

Delta R.T. -0.01 min

Lab File: BE098446.D

Acq: 14 Dec 2018 21:31

Instrument :

BNA_G

ClientSampleId :

BP-TT-AOC22-MW03-20181208

Tgt Ion: 136 Resp: 7022

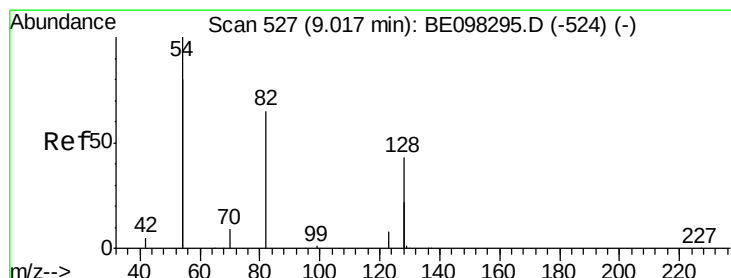
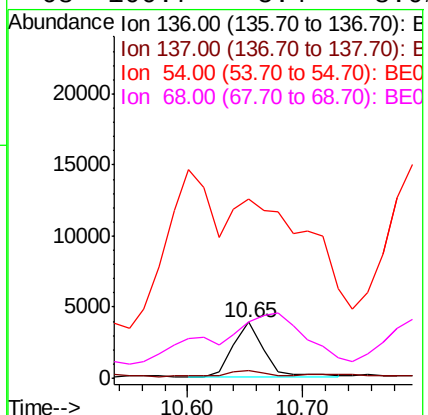
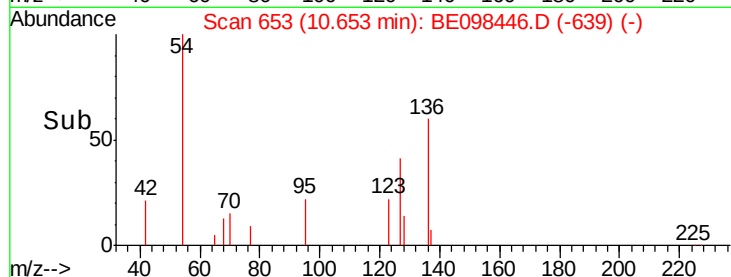
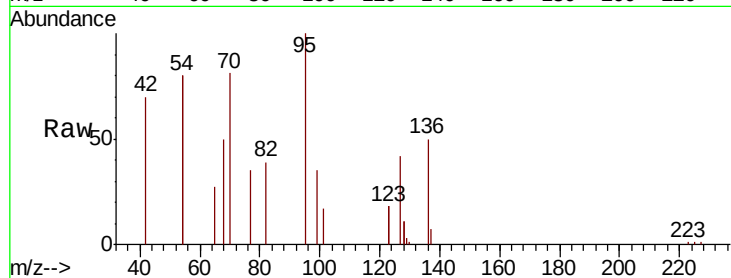
Ion Ratio Lower Upper

136 100

137 14.8 9.2 13.8#

54 319.4 28.4 42.6#

68 100.7 5.4 8.0#



#8

Nitrobenzene-d5

Concen: 0.495 ng

RT: 9.00 min Scan# 526

Delta R.T. -0.01 min

Lab File: BE098446.D

Acq: 14 Dec 2018 21:31

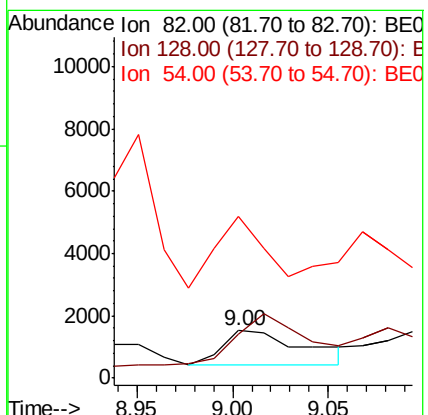
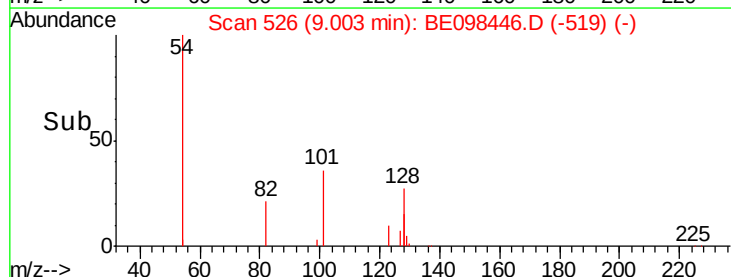
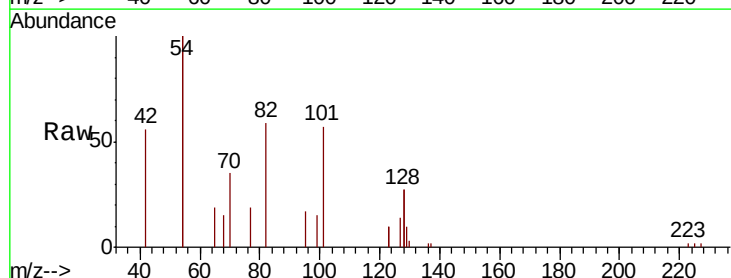
Tgt Ion: 82 Resp: 3162

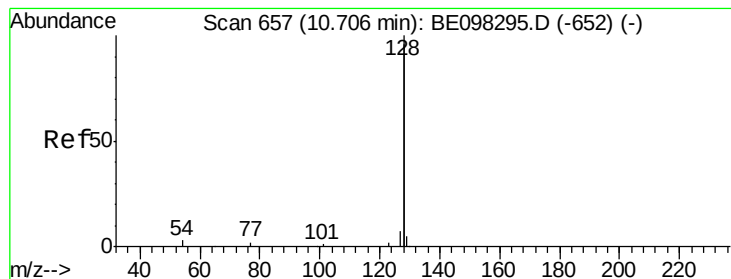
Ion Ratio Lower Upper

82 100

128 93.0 102.4 153.6#

54 340.4 221.8 332.8#





#9

Naphthalene

Concen: 0.871 ng

RT: 10.70 min Scan# 657

Delta R.T. -0.00 min

Lab File: BE098446.D

Acq: 14 Dec 2018 21:31

Instrument :

BNA_G

ClientSampleId :

BP-TT-AOC22-MW03-20181208

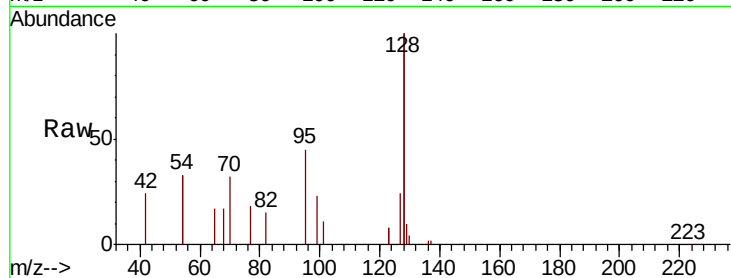
Tgt Ion:128 Resp: 61549

Ion Ratio Lower Upper

128 100

129 5.1 2.5 3.7#

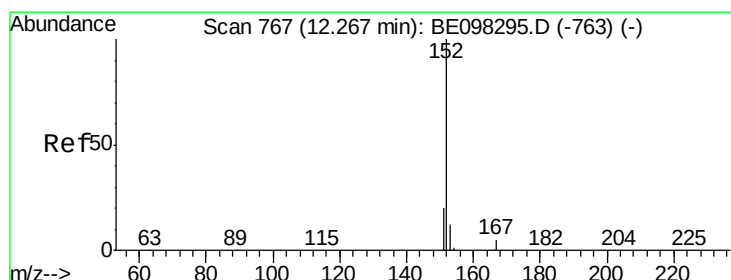
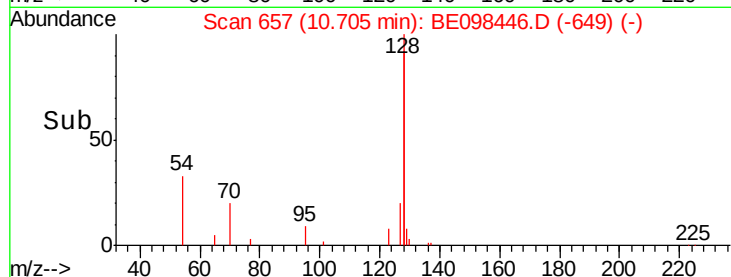
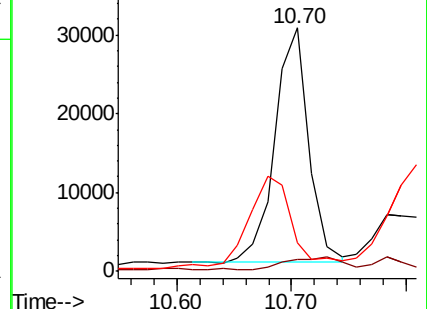
127 11.8 2.7 4.1#



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: 0.538 ng

RT: 12.25 min Scan# 766

Delta R.T. -0.02 min

Lab File: BE098446.D

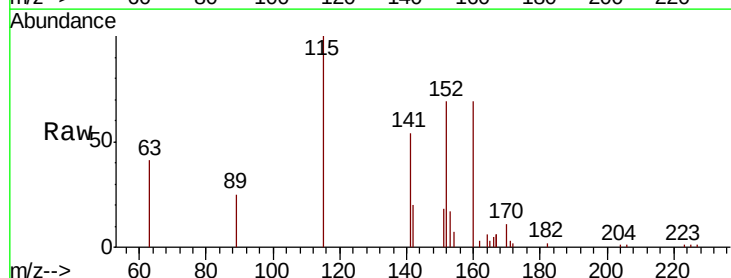
Acq: 14 Dec 2018 21:31

Tgt Ion:152 Resp: 6139

Ion Ratio Lower Upper

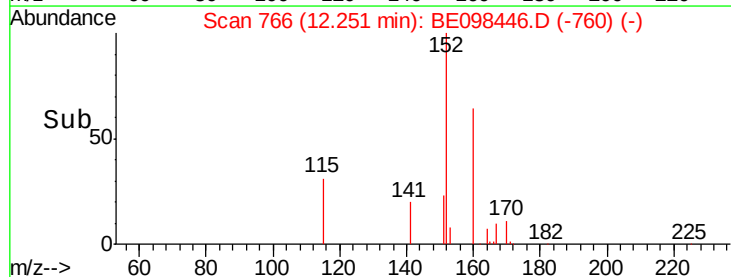
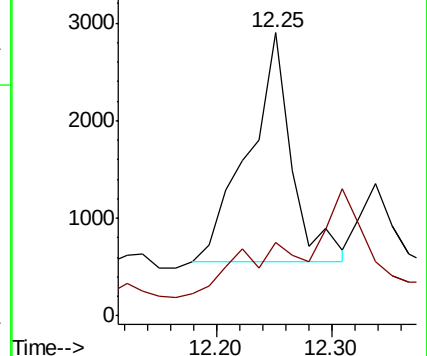
152 100

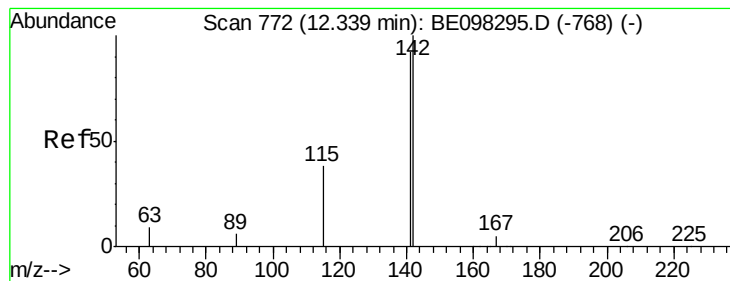
151 0.0 16.2 24.4#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E





#12

2-Methylnaphthalene

Concen: 0.140 ng

RT: 12.37 min Scan# 774

Delta R.T. 0.03 min

Lab File: BE098446.D

Acq: 14 Dec 2018 21:31

Instrument :

BNA_G

ClientSampleId :

BP-TT-AOC22-MW03-20181208

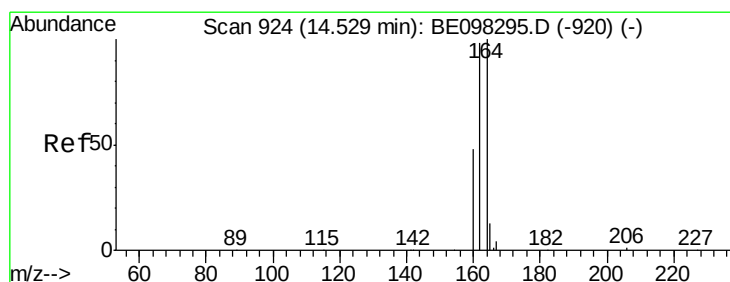
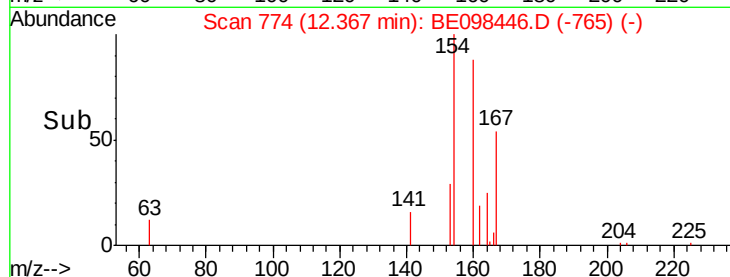
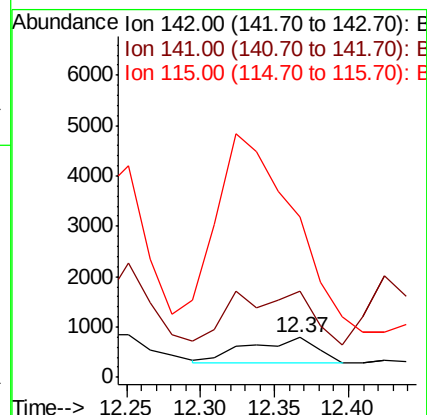
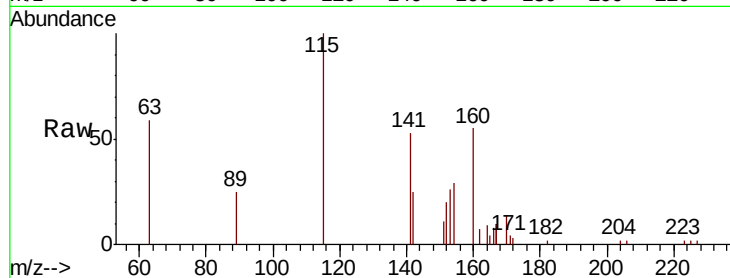
Tgt Ion:142 Resp: 1611

Ion Ratio Lower Upper

142 100

141 214.1 71.0 106.6#

115 401.4 32.2 48.2#



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.53 min Scan# 924

Delta R.T. -0.00 min

Lab File: BE098446.D

Acq: 14 Dec 2018 21:31

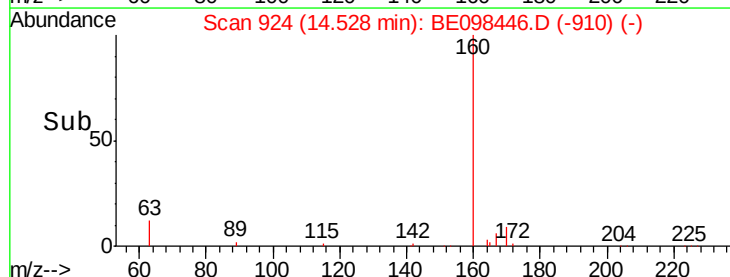
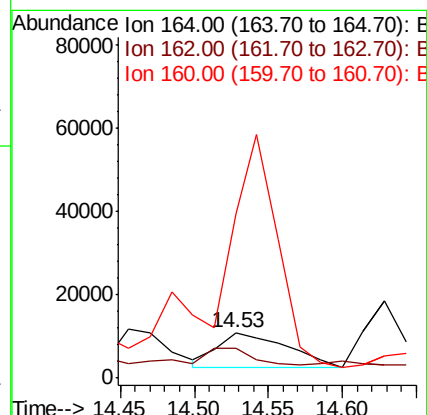
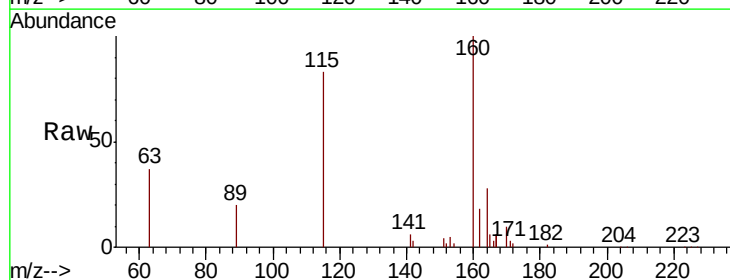
Tgt Ion:164 Resp: 26737

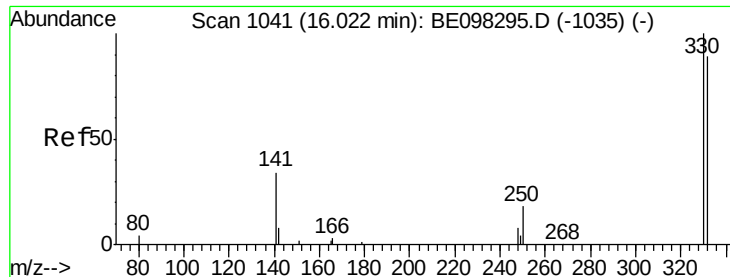
Ion Ratio Lower Upper

164 100

162 65.5 77.6 116.4#

160 360.1 36.0 54.0#

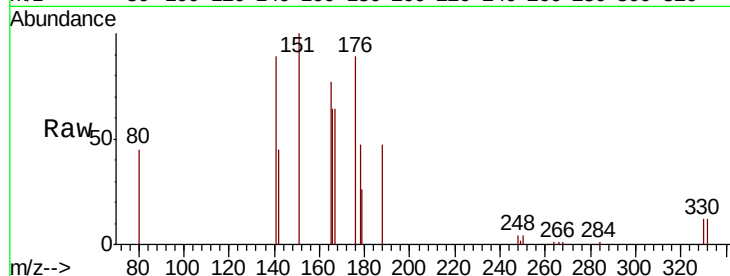




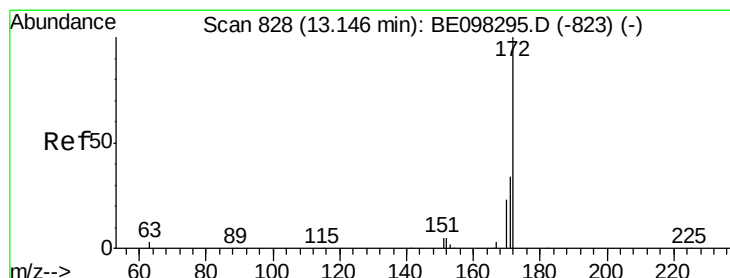
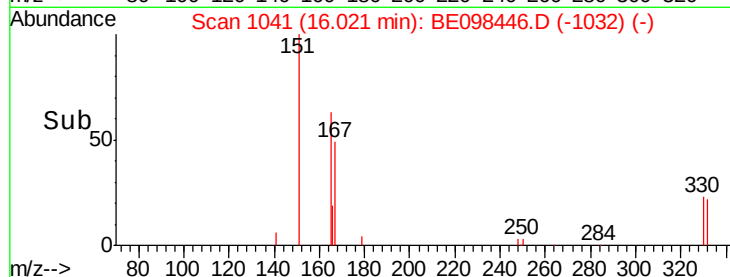
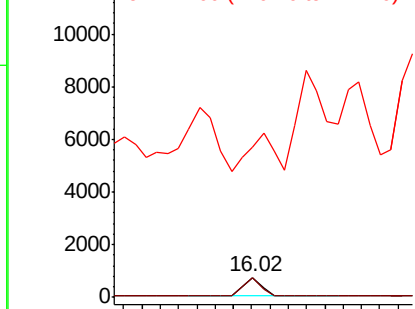
#14
 2,4,6-Tribromophenol
 Concen: 0.106 ng
 RT: 16.02 min Scan# 1041
 Delta R.T. -0.00 min
 Lab File: BE098446.D
 Acq: 14 Dec 2018 21:31

Instrument :
 BNA_G
 ClientSampleId :
 BP-TT-AOC22-MW03-20181208

Tgt Ion:330 Resp: 1036
 Ion Ratio Lower Upper
 330 100
 332 94.7 76.2 114.4
 141 247.5 39.0 58.4#

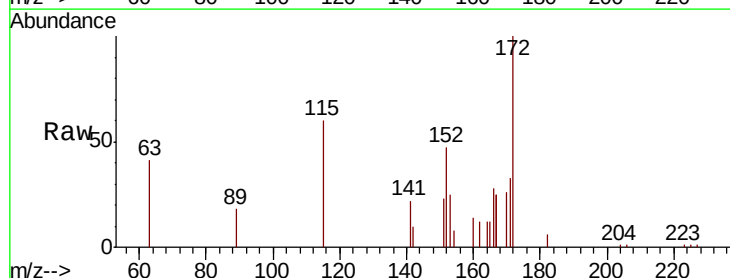


Abundance Ion 330.00 (329.70 to 330.70): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

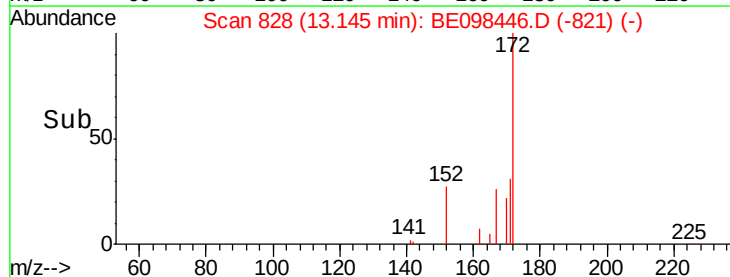
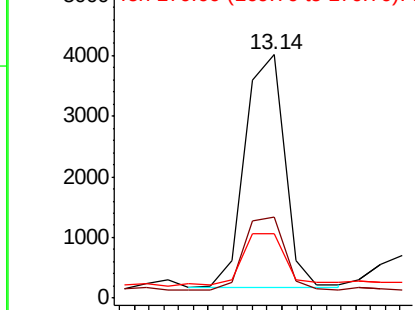


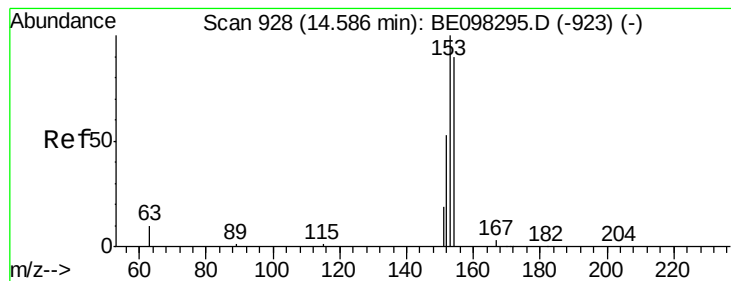
#15
 2-Fluorobiphenyl
 Concen: 0.064 ng
 RT: 13.14 min Scan# 828
 Delta R.T. -0.00 min
 Lab File: BE098446.D
 Acq: 14 Dec 2018 21:31

Tgt Ion:172 Resp: 7222
 Ion Ratio Lower Upper
 172 100
 171 33.3 27.5 41.3
 170 26.4 19.6 29.4



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





#17

Acenaphthene

Concen: 0.024 ng

RT: 14.59 min Scan# 928

Delta R.T. -0.00 min

Lab File: BE098446.D

Acq: 14 Dec 2018 21:31

Instrument :

BNA_G

ClientSampleId :

BP-TT-AOC22-MW03-20181208

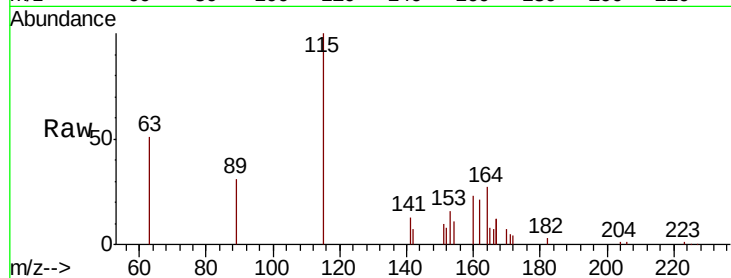
Tgt Ion:154 Resp: 1821

Ion Ratio Lower Upper

154 100

153 123.3 91.8 137.6

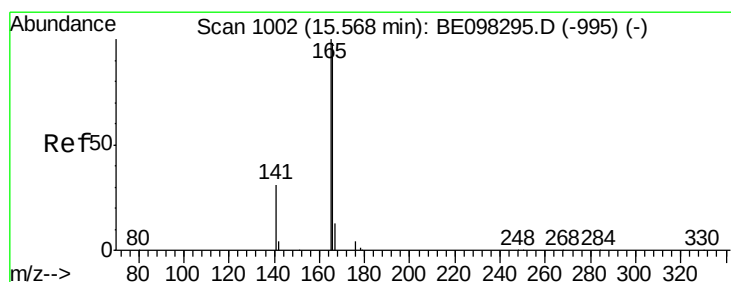
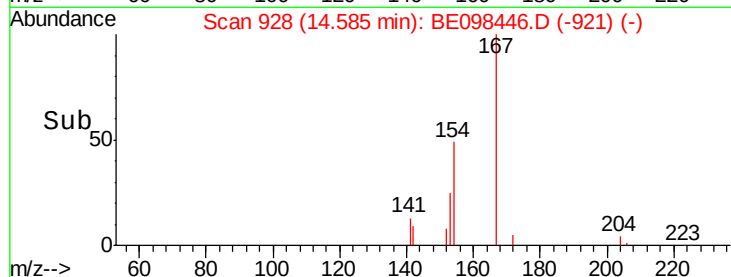
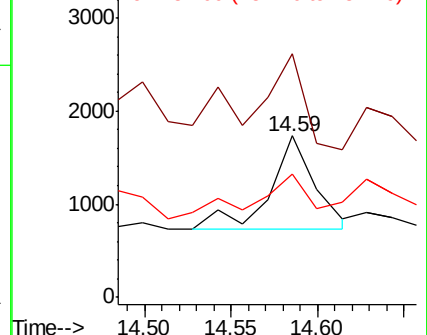
152 58.9 45.5 68.3



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: 0.057 ng

RT: 15.61 min Scan# 1006

Delta R.T. 0.05 min

Lab File: BE098446.D

Acq: 14 Dec 2018 21:31

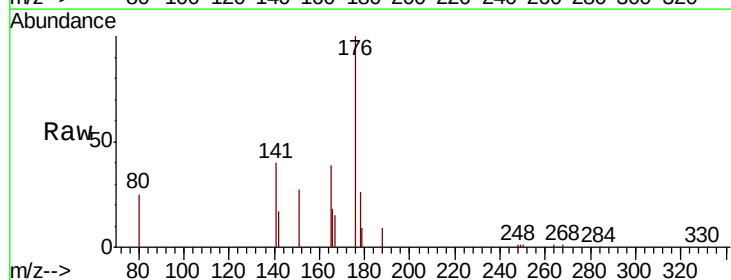
Tgt Ion:166 Resp: 5767

Ion Ratio Lower Upper

166 100

165 112.1 79.3 118.9

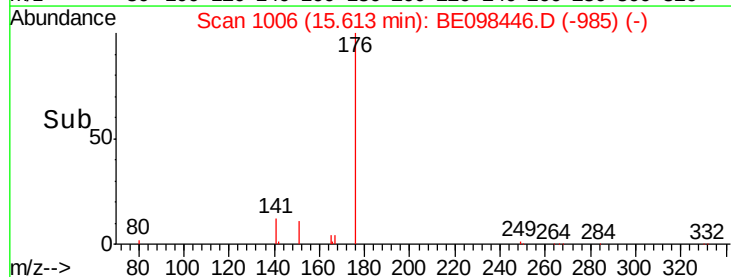
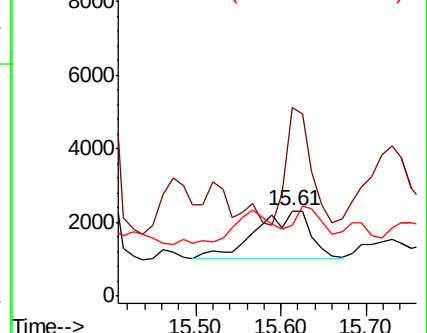
167 35.1 11.3 16.9#

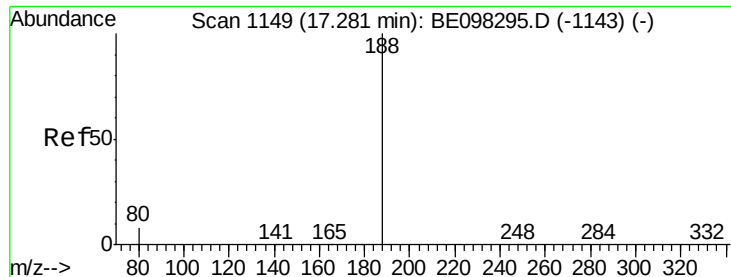


Abundance Ion 166.00 (165.70 to 166.70): E

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: 17.27 min Scan# 1148

Delta R.T. -0.01 min

Lab File: BE098446.D

Acq: 14 Dec 2018 21:31

Instrument :

BNA_G

ClientSampleId :

BP-TT-AOC22-MW03-20181208

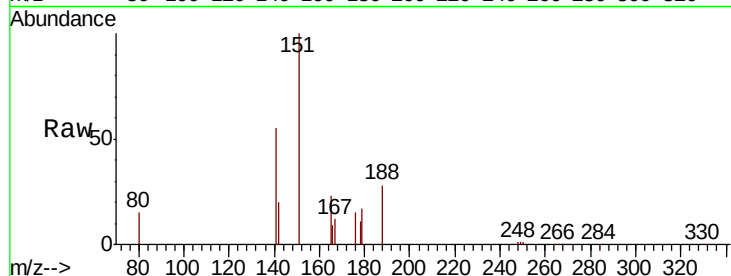
Tgt Ion:188 Resp: 9049

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

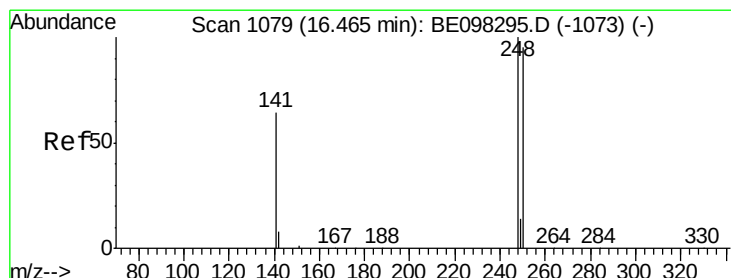
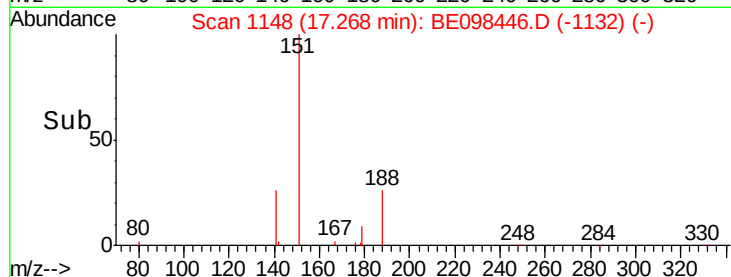
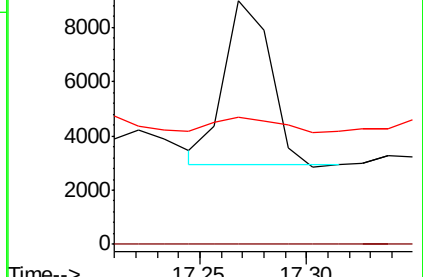
80 52.0 7.2 10.8#



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: 0.124 ng

RT: 16.44 min Scan# 1077

Delta R.T. -0.02 min

Lab File: BE098446.D

Acq: 14 Dec 2018 21:31

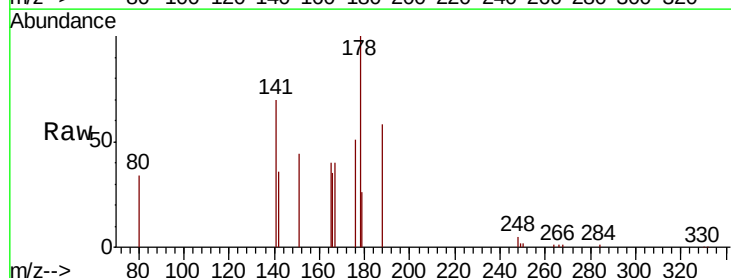
Tgt Ion:248 Resp: 604

Ion Ratio Lower Upper

248 100

250 37.4 71.0 106.6#

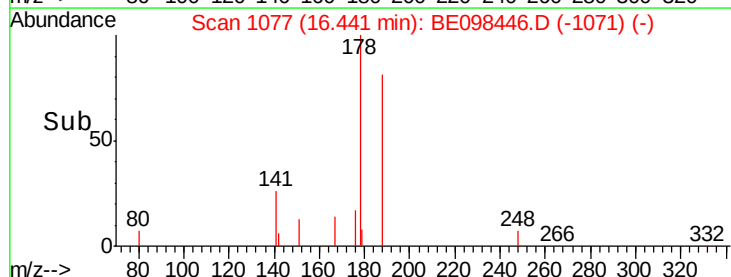
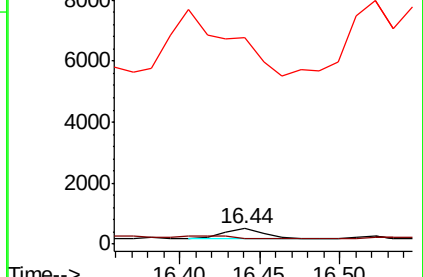
141 1339.3 62.1 93.1#

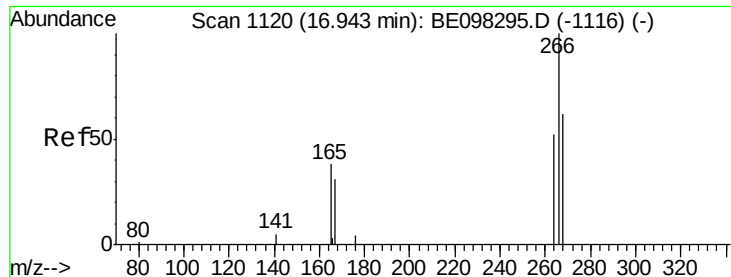


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#22

Pentachlorophenol

Concen: 0.218 ng

RT: 16.94 min Scan# 1120

Delta R.T. -0.00 min

Lab File: BE098446.D

Acq: 14 Dec 2018 21:31

Instrument :

BNA_G

ClientSampleId :

BP-TT-AOC22-MW03-20181208

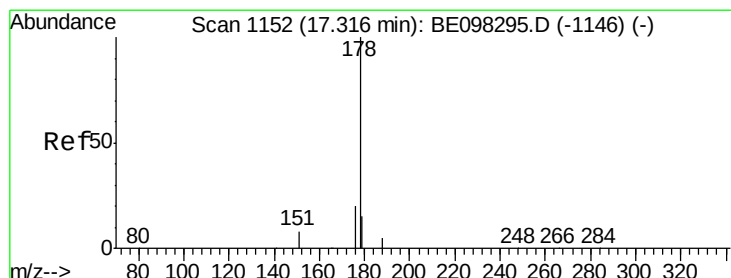
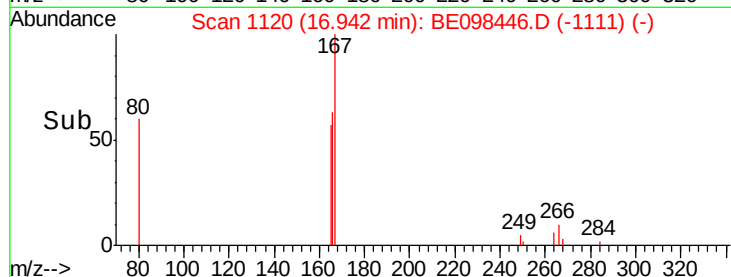
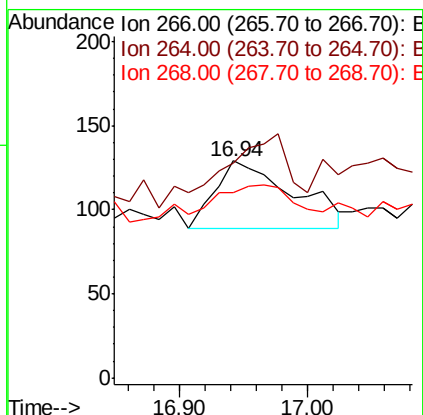
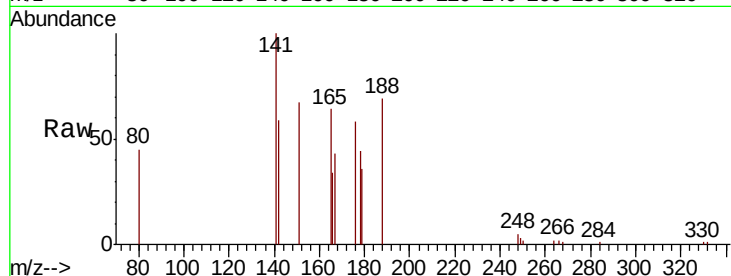
Tgt Ion:266 Resp: 168

Ion Ratio Lower Upper

266 100

264 99.2 59.0 88.4#

268 85.3 55.1 82.7#



#23

Phenanthrene

Concen: 0.149 ng

RT: 17.31 min Scan# 1152

Delta R.T. -0.00 min

Lab File: BE098446.D

Acq: 14 Dec 2018 21:31

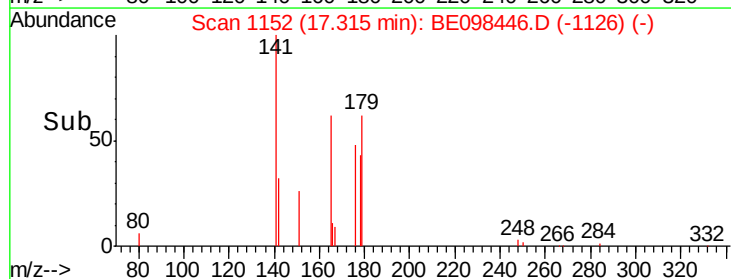
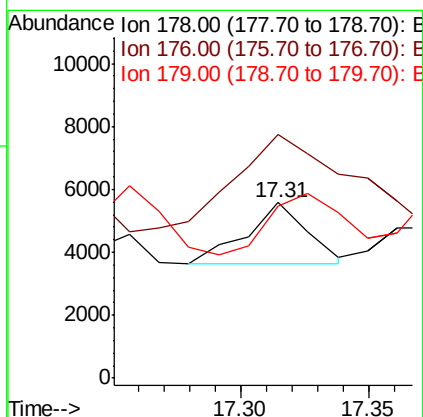
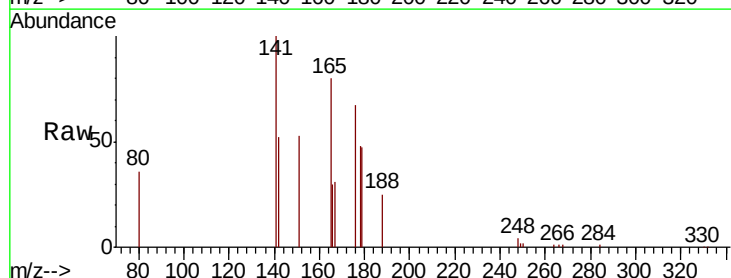
Tgt Ion:178 Resp: 3266

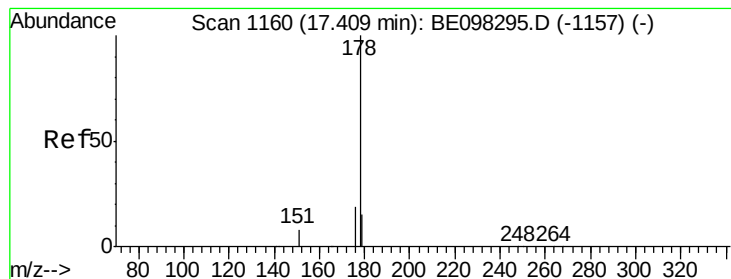
Ion Ratio Lower Upper

178 100

176 353.3 15.9 23.9#

179 120.4 12.3 18.5#





#24

Anthracene

Concen: 0.170 ng

RT: 17.41 min Scan# 1160

Delta R.T. -0.00 min

Lab File: BE098446.D

Acq: 14 Dec 2018 21:31

Instrument :

BNA_G

ClientSampleId :

BP-TT-AOC22-MW03-20181208

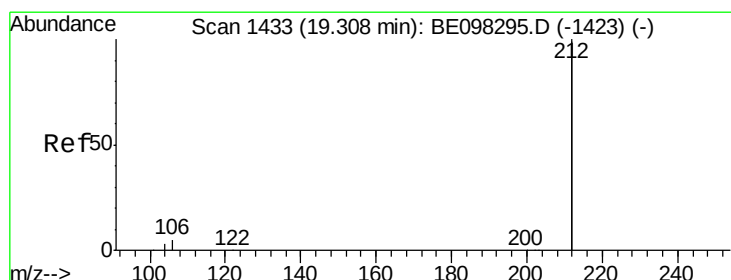
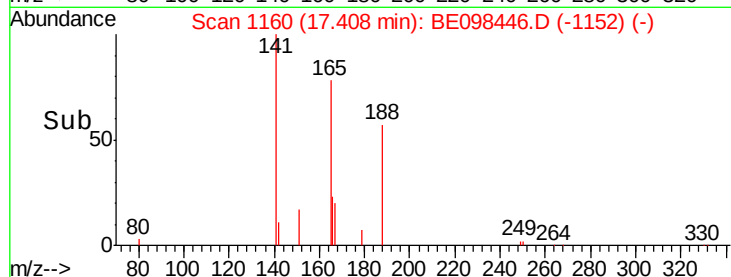
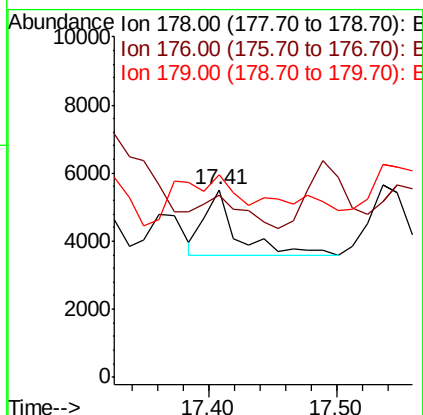
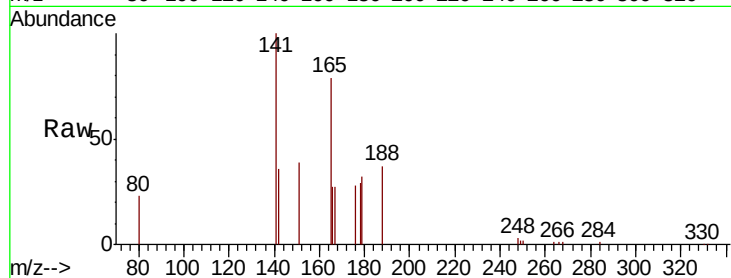
Tgt Ion:178 Resp: 3336

Ion Ratio Lower Upper

178 100

176 63.6 15.0 22.4#

179 175.8 12.3 18.5#



#25

Fluoranthene-d10

Concen: 0.428 ng

RT: 19.31 min Scan# 1433

Delta R.T. 0.00 min

Lab File: BE098446.D

Acq: 14 Dec 2018 21:31

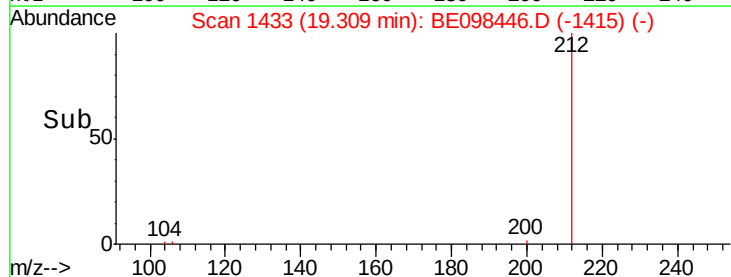
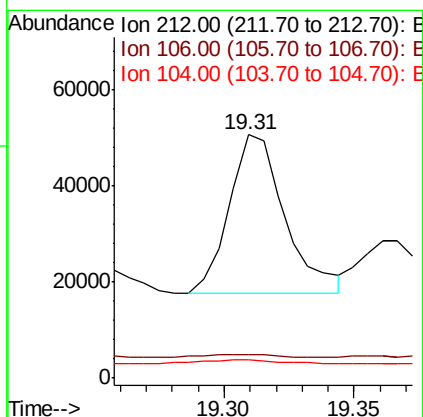
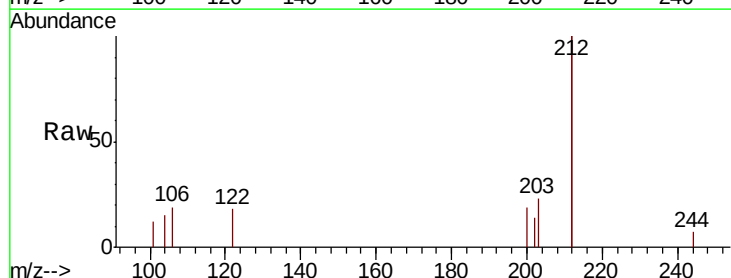
Tgt Ion:212 Resp: 49681

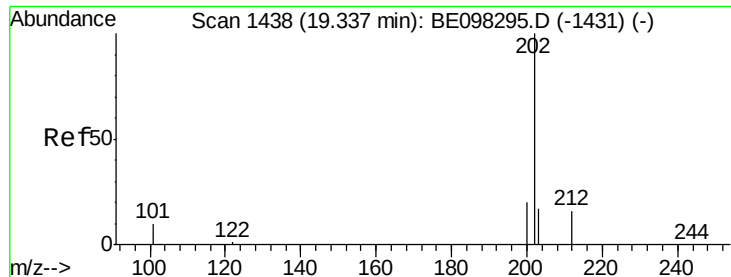
Ion Ratio Lower Upper

212 100

106 1.9 2.2 3.2#

104 3.7 1.3 1.9#

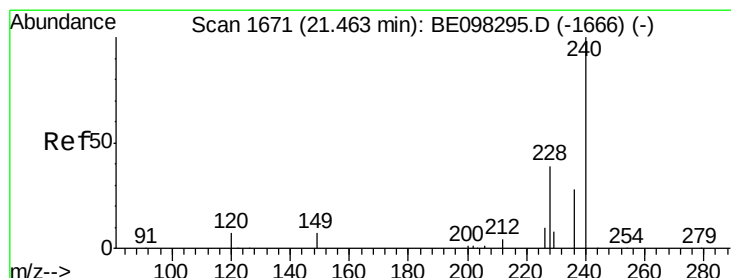
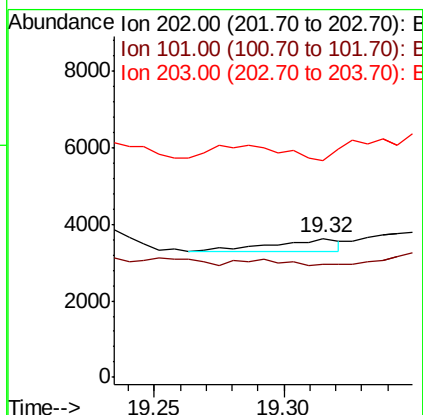
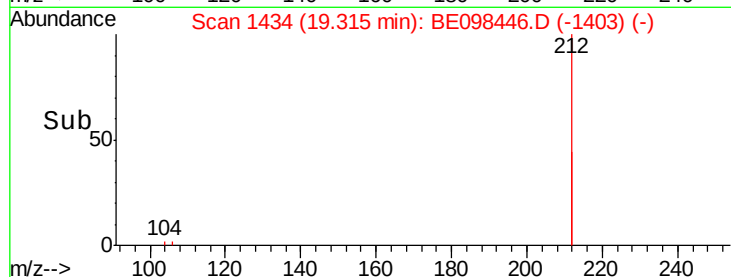
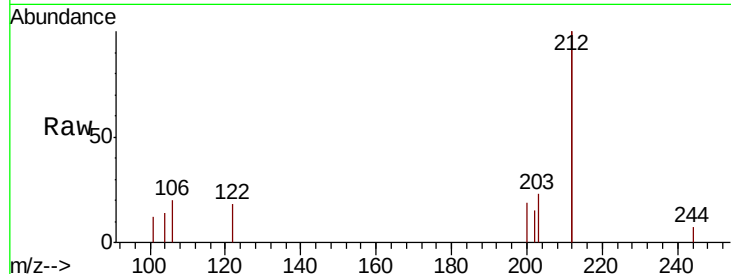




#26
Fluoranthene
Concen: 0.022 ng
RT: 19.32 min Scan# 1434
Delta R.T. -0.02 min
Lab File: BE098446.D
Acq: 14 Dec 2018 21:31

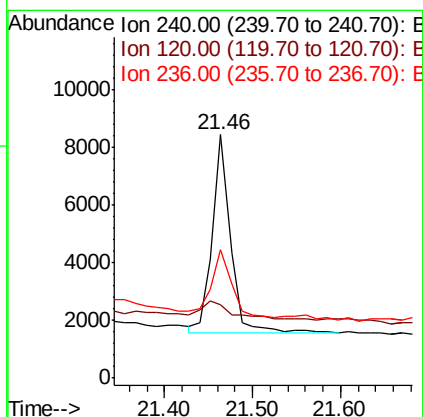
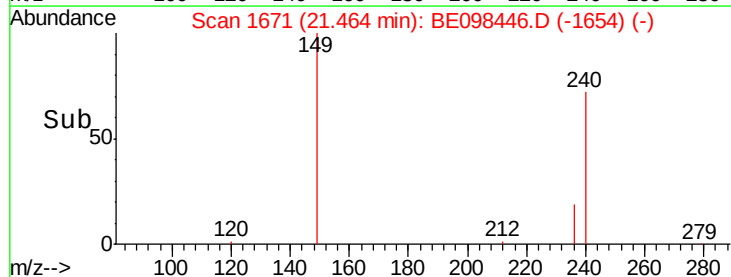
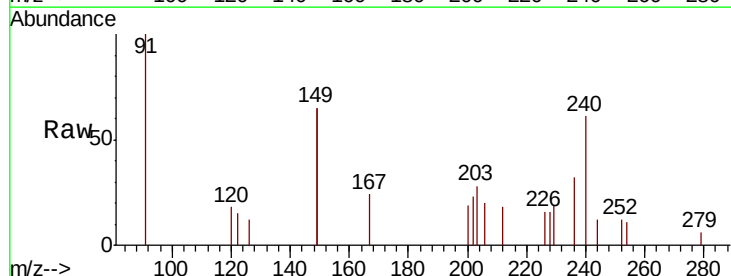
Instrument :
BNA_G
ClientSampleId :
BP-TT-AOC22-MW03-20181208

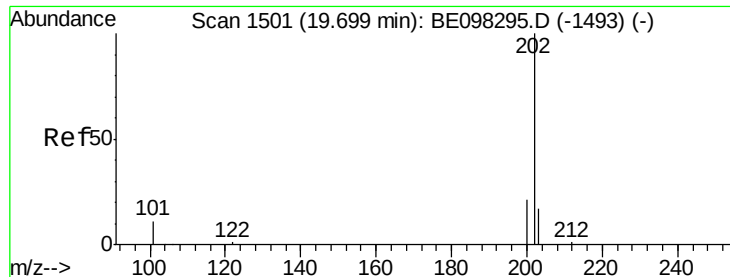
Tgt Ion: 202 Resp: 626
Ion Ratio Lower Upper
202 100
101 0.0 8.0 12.0#
203 0.0 13.8 20.6#



#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.46 min Scan# 1671
Delta R.T. 0.00 min
Lab File: BE098446.D
Acq: 14 Dec 2018 21:31

Tgt Ion: 240 Resp: 9946
Ion Ratio Lower Upper
240 100
120 30.4 9.5 14.3#
236 52.7 22.7 34.1#





#28

Pyrene

Concen: 0.037 ng

RT: 19.71 min Scan# 1502

Delta R.T. 0.01 min

Lab File: BE098446.D

Acq: 14 Dec 2018 21:31

Instrument :

BNA_G

ClientSampleId :

BP-TT-AOC22-MW03-20181208

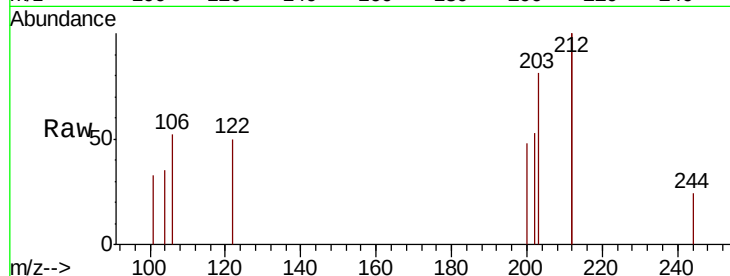
Tgt Ion:202 Resp: 1141

Ion Ratio Lower Upper

202 100

200 0.0 16.7 25.1#

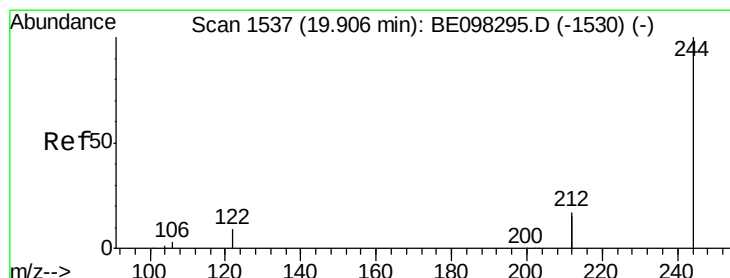
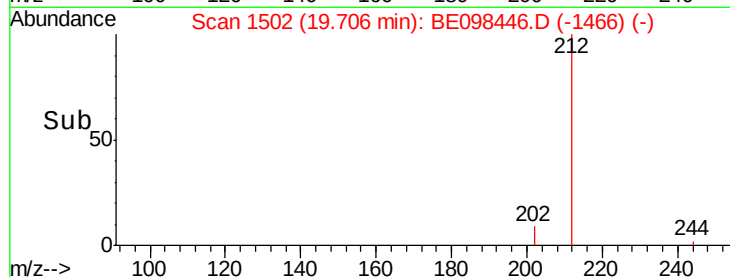
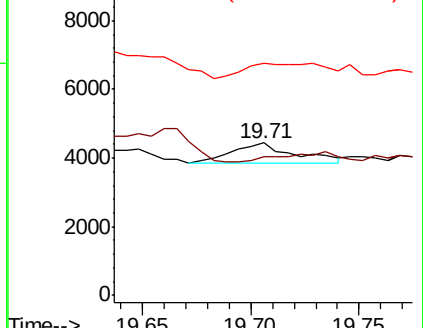
203 0.0 14.1 21.1#



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: 0.238 ng

RT: 19.90 min Scan# 1536

Delta R.T. -0.00 min

Lab File: BE098446.D

Acq: 14 Dec 2018 21:31

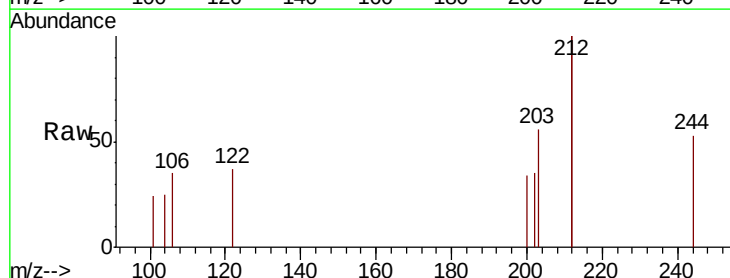
Tgt Ion:244 Resp: 5751

Ion Ratio Lower Upper

244 100

212 377.8 27.4 41.0#

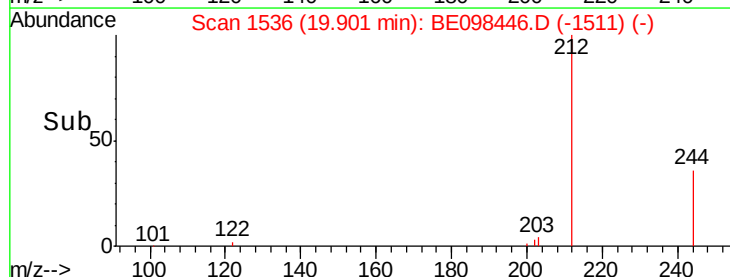
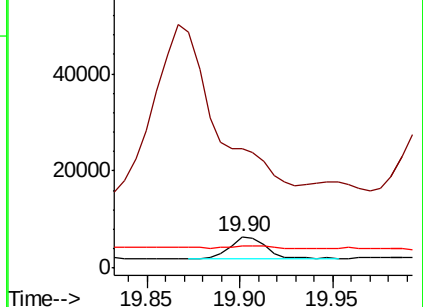
122 69.4 8.3 12.5#

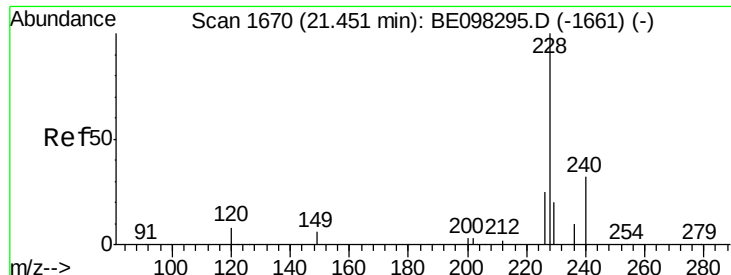


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#30

Benzo(a)anthracene

Concen: 0.078 ng

RT: 21.45 min Scan# 1670

Delta R.T. 0.00 min

Lab File: BE098446.D

Acq: 14 Dec 2018 21:31

Instrument :

BNA_G

ClientSampleId :

BP-TT-AOC22-MW03-20181208

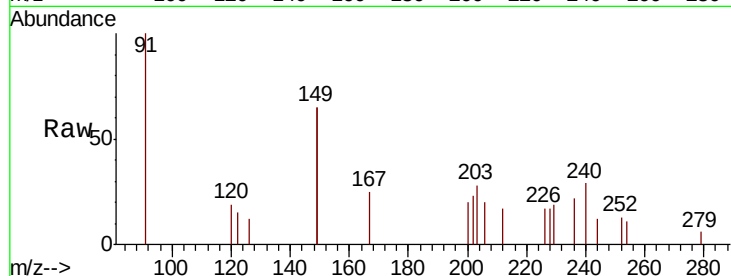
Tgt Ion:228 Resp: 2204

Ion Ratio Lower Upper

228 100

226 98.5 21.8 32.8#

229 111.1 16.3 24.5#

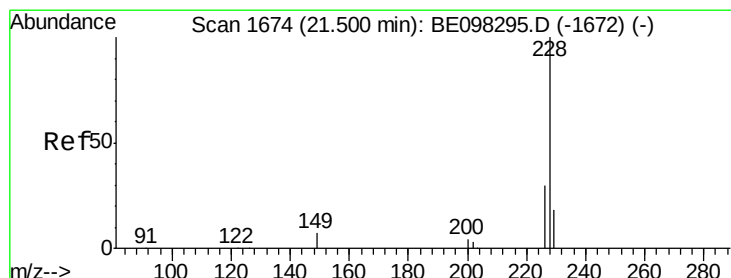
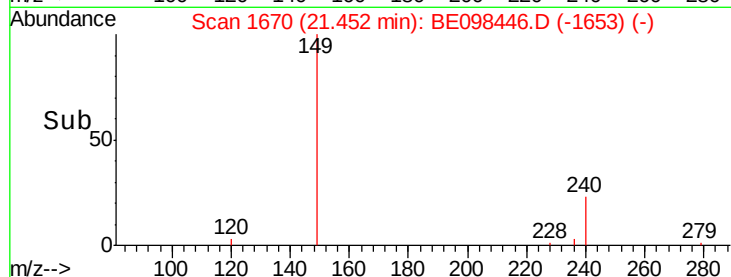
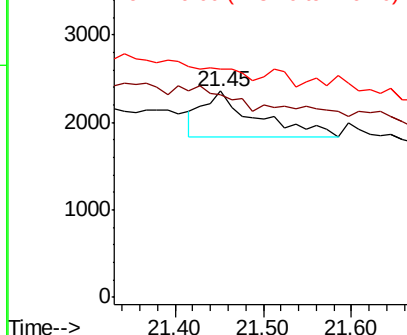


Abundance

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: 0.066 ng

RT: 21.45 min Scan# 1670

Delta R.T. -0.05 min

Lab File: BE098446.D

Acq: 14 Dec 2018 21:31

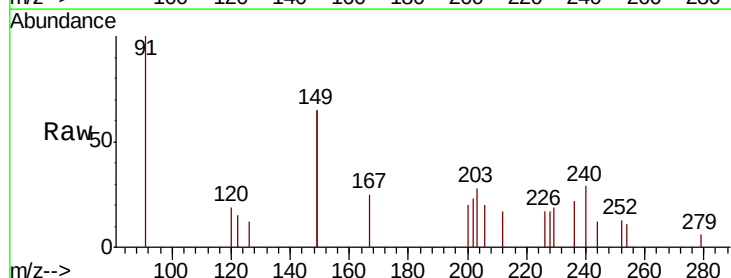
Tgt Ion:228 Resp: 1950

Ion Ratio Lower Upper

228 100

226 98.5 23.4 35.0#

229 111.1 16.2 24.4#

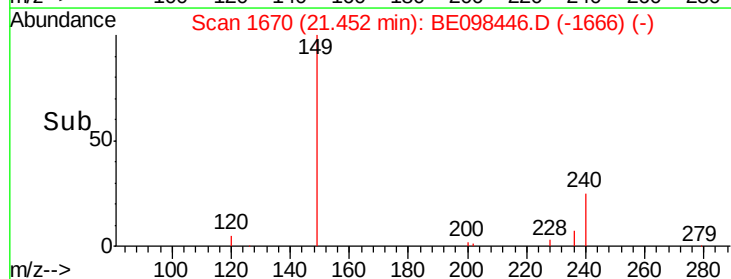
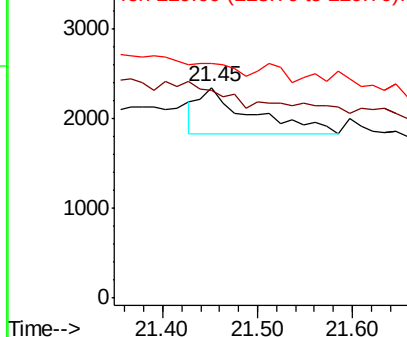


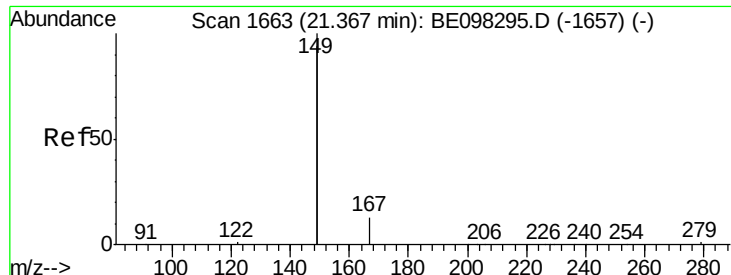
Abundance

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

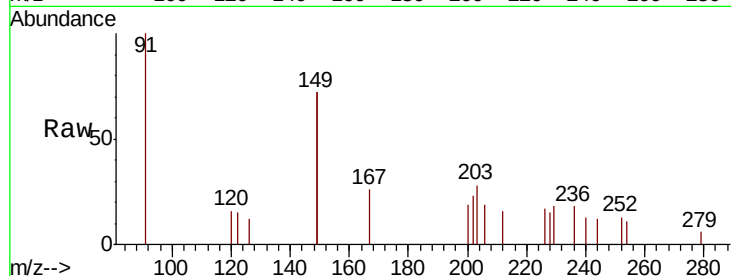




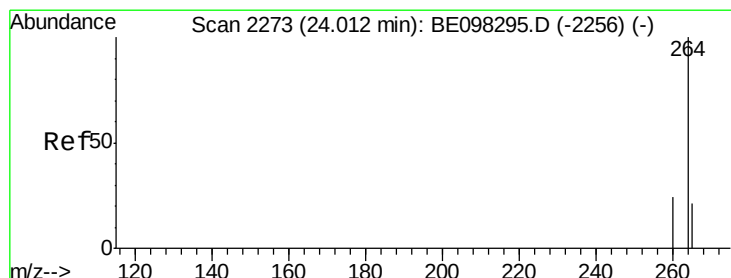
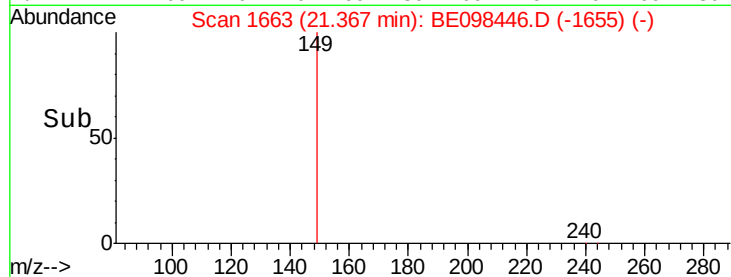
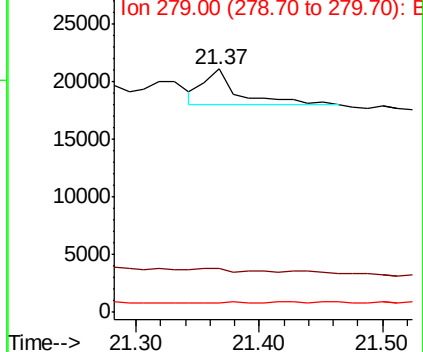
#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.101 ng
 RT: 21.37 min Scan# 1663
 Delta R.T. 0.00 min
 Lab File: BE098446.D
 Acq: 14 Dec 2018 21:31

Instrument :
 BNA_G
 ClientSampleId :
 BP-TT-AOC22-MW03-20181208

Tgt Ion:149 Resp: 5819
 Ion Ratio Lower Upper
 149 100
 167 0.0 5.7 8.5#
 279 1.5 1.0 1.4#

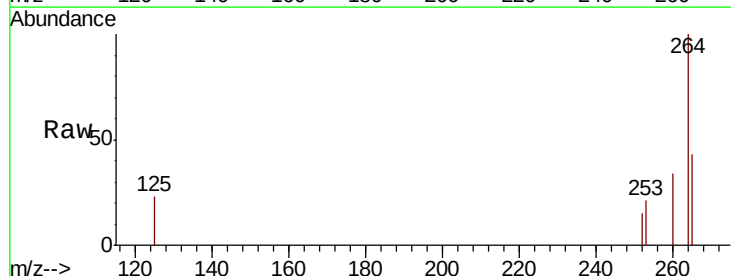


Abundance Ion 149.00 (148.70 to 149.70): E
 Ion 167.00 (166.70 to 167.70): E
 Ion 279.00 (278.70 to 279.70): E



#34
 Perylene-d12
 Concen: 0.400 ng
 RT: 24.00 min Scan# 2271
 Delta R.T. -0.01 min
 Lab File: BE098446.D
 Acq: 14 Dec 2018 21:31

Tgt Ion:264 Resp: 8680
 Ion Ratio Lower Upper
 264 100
 260 33.6 20.2 30.2#
 265 43.4 25.2 37.8#



Abundance Ion 264.00 (263.70 to 264.70): E
 Ion 260.00 (259.70 to 260.70): E
 Ion 265.00 (264.70 to 265.70): E

