

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF091417\
 Data File : BF098552.D
 Acq On : 15 Sep 2017 2:36
 Operator : SJ/JU
 Sample : I5222-05 2X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SP-2

Quant Time: Sep 15 05:06:19 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF091117.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 12 02:14:50 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.65	152	131108	20.00	ng	-0.02
21) Naphthalene-d8	7.93	136	551970	20.00	ng	-0.02
38) Acenaphthene-d10	9.68	164	248266	20.00	ng	-0.02
63) Phenanthrene-d10	11.16	188	407480	20.00	ng	-0.02
75) Chrysene-d12	13.79	240	296261	20.00	ng	-0.02
86) Perylene-d12	15.19	264	293366	20.00	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.25	112	501171	56.52	ng	-0.02
7) Phenol-d6	6.30	99	630453	56.00	ng	-0.02
23) Nitrobenzene-d5	7.22	82	366053	36.97	ng	-0.02
41) 2,4,6-Tribromophenol	10.47	330	103132	62.24	ng	-0.02
44) 2-Fluorobiphenyl	9.00	172	623684	42.58	ng	-0.03
78) Terphenyl-d14	12.74	244	438441	31.94	ng	-0.02

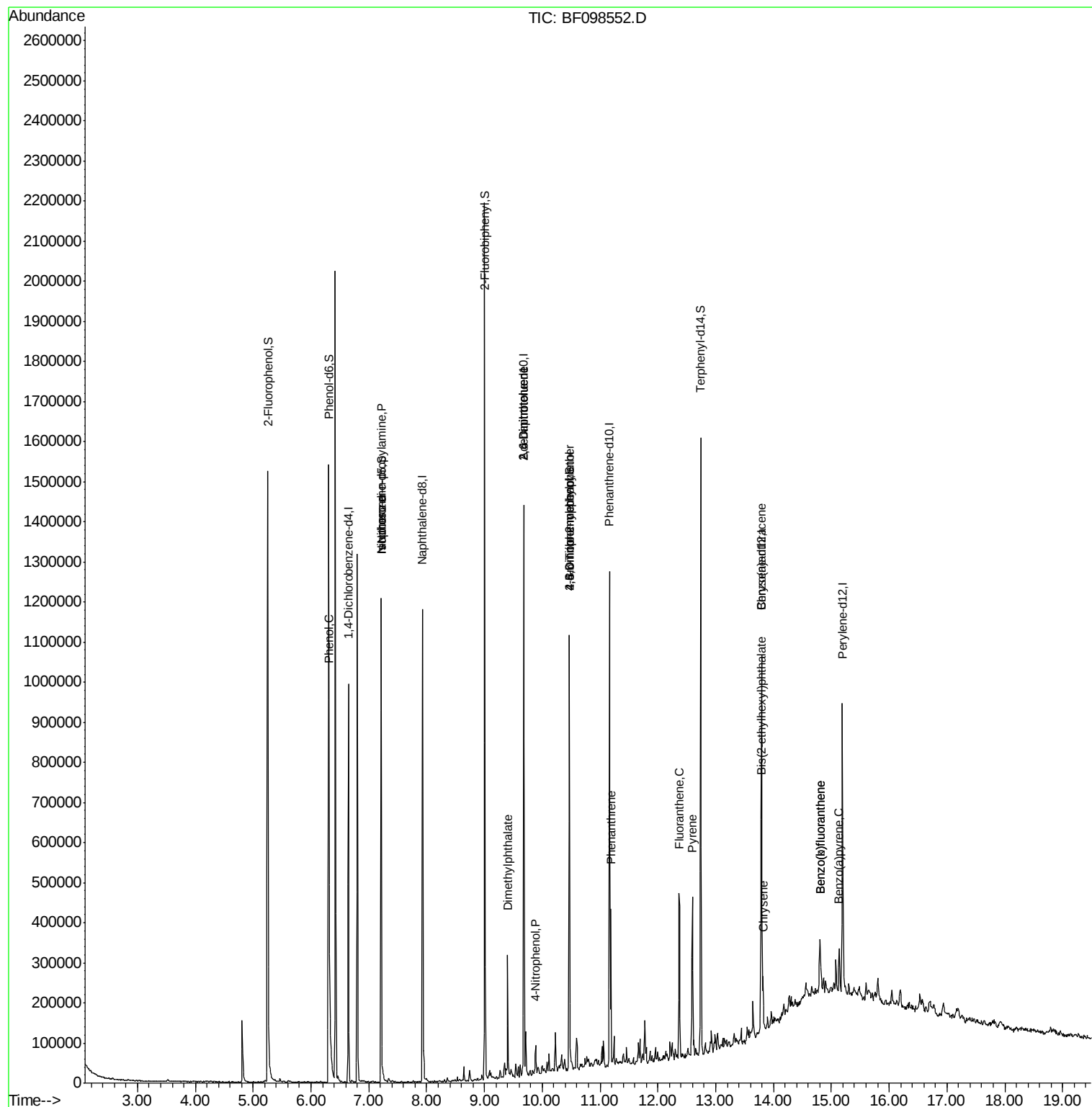
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.32	94	27109	2.073	ng	# 52
19) n-Nitroso-di-n-propylamine	7.22	70	48016	6.780	ng	# 83
25) Isophorone	7.22	82	358599	17.901	ng	# 67
49) Dimethylphthalate	9.40	163	100318	5.220	ng	100
50) 2,6-Dinitrotoluene	9.68	165	32362	8.198	ng	# 34
55) 4-Nitrophenol	9.89	139	7655	2.796	ng	# 36
56) 2,4-Dinitrotoluene	9.68	165	32362	6.743	ng	# 34
64) 4,6-Dinitro-2-methylphenol	10.47	198	261	5.058	ng	# 1
66) 4-Bromophenyl-phenylether	10.47	248	7859	2.032	ng	# 1
70) Phenanthrene	11.19	178	134348	6.219	ng	96
74) Fluoranthene	12.37	202	161166	7.453	ng	100
77) Pylene	12.60	202	150131	6.424	ng	96
80) Benzo(a)anthracene	13.79	228	54187	3.120	ng	99
82) Chrysene	13.82	228	54509	3.105	ng	96
83) Bis(2-ethylhexyl)phthalate	13.78	149	26743	2.102	ng	# 98
87) Benzo(b)fluoranthene	14.80	252	87347	4.735	ng	# 97
88) Benzo(k)fluoranthene	14.80	252	87347	5.072	ng	98
89) Benzo(a)pyrene	15.14	252	43716	2.660	ng	99

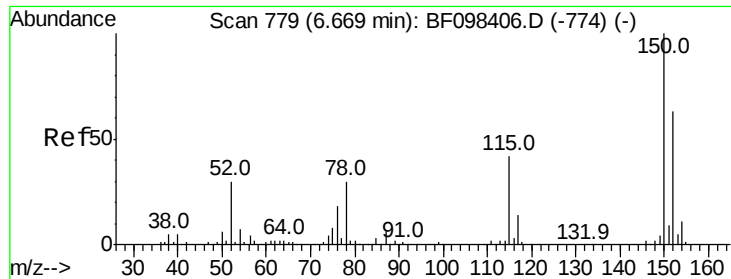
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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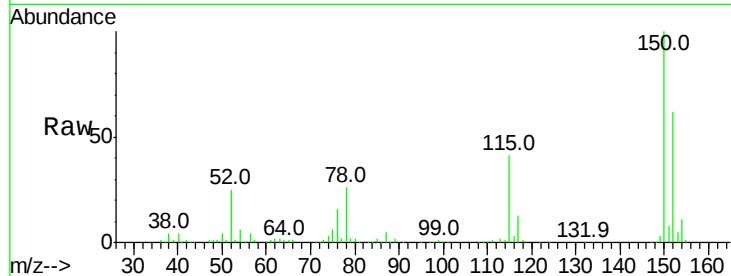


#1

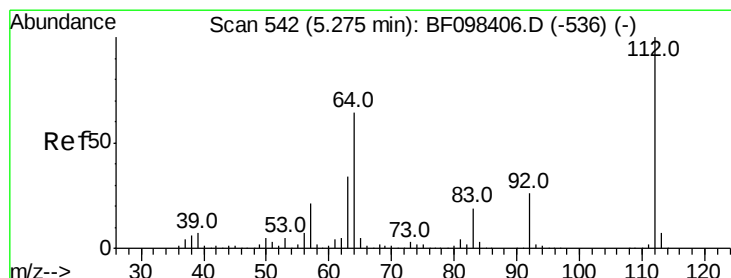
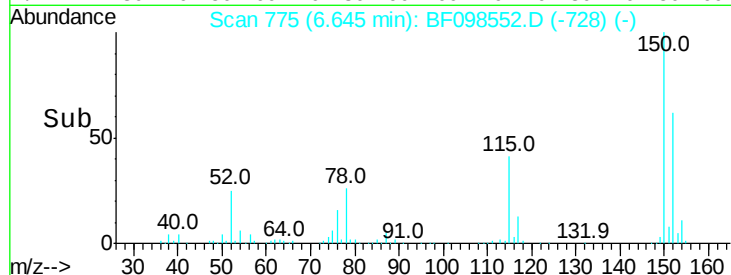
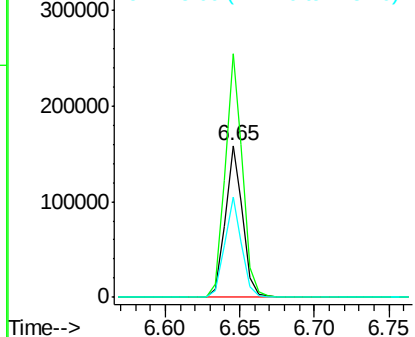
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.65 min Scan# 775
Delta R.T. -0.02 min
Lab File: BF098552.D
Acq: 15 Sep 2017 2:36

Instrument :
BNA_F
ClientSampleId :
SP-2

Tot Ion:152 Resp: 131108
Ion Ratio Lower Upper
152 100
150 160.8 126.2 189.2
115 66.6 52.2 78.2



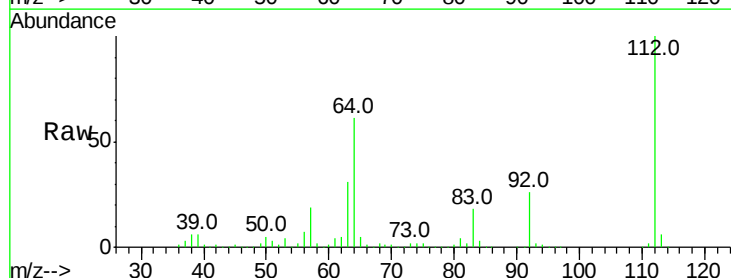
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



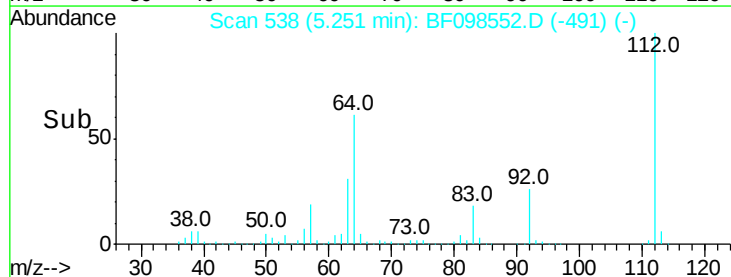
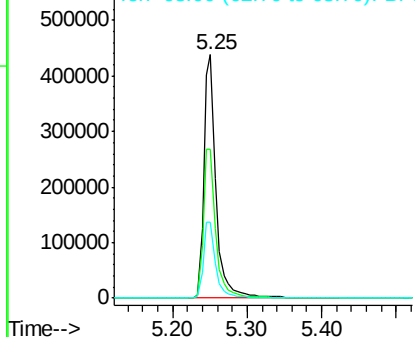
#5

2-Fluorophenol
Concen: 56.518 ng
RT: 5.25 min Scan# 538
Delta R.T. -0.02 min
Lab File: BF098552.D
Acq: 15 Sep 2017 2:36

Tgt Ion:112 Resp: 501171
Ion Ratio Lower Upper
112 100
64 60.9 46.0 69.0
63 31.2 23.4 35.0



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 55.997 ng

RT: 6.30 min Scan# 717

Delta R.T. -0.02 min

Lab File: BF098552.D

Acq: 15 Sep 2017 2:36

Instrument :

BNA_F

ClientSampleId :

SP-2

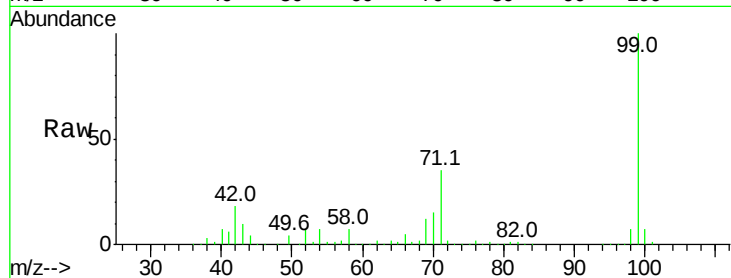
Tot Ion: 99 Resp: 630453

Ion Ratio Lower Upper

99 100

42 18.2 13.5 20.3

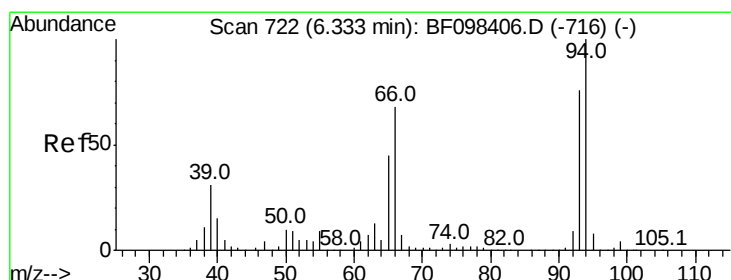
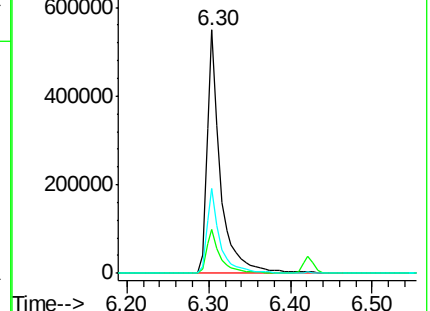
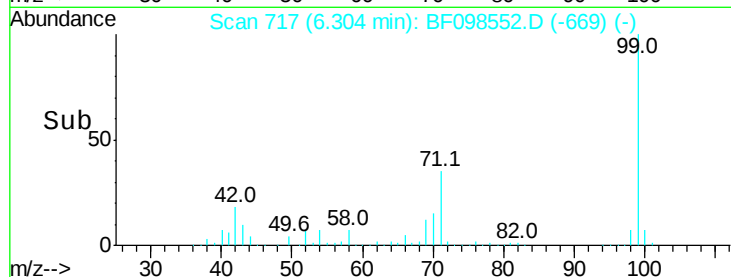
71 34.7 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#10

Phenol

Concen: 2.073 ng

RT: 6.32 min Scan# 719

Delta R.T. -0.02 min

Lab File: BF098552.D

Acq: 15 Sep 2017 2:36

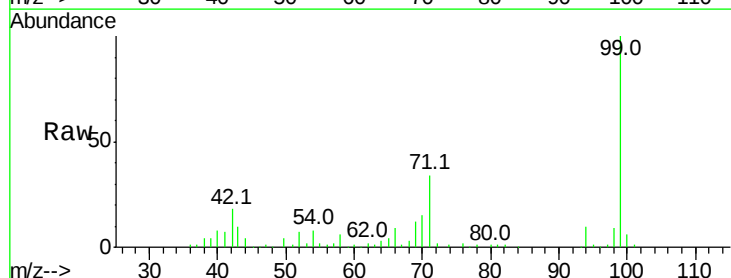
Tgt Ion: 94 Resp: 27109

Ion Ratio Lower Upper

94 100

65 39.2 9.9 49.9

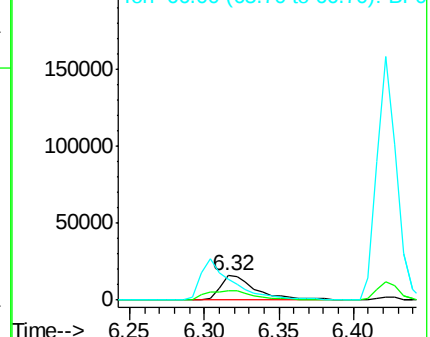
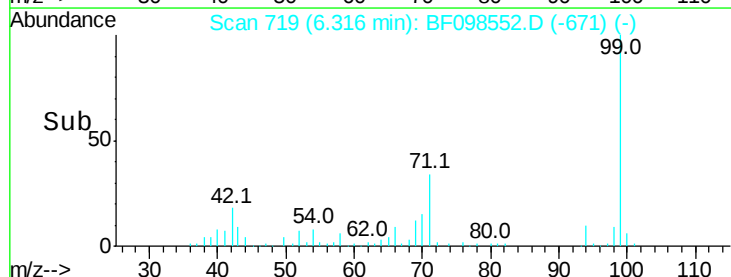
66 88.0 23.1 63.1#

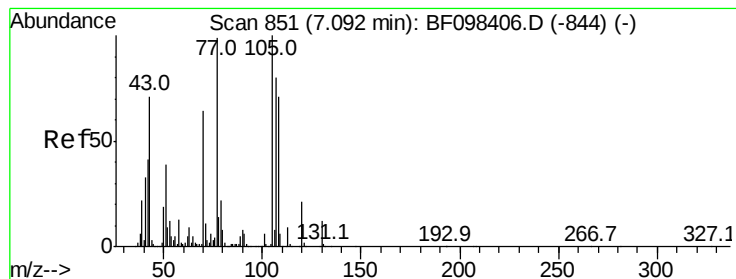


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





#19

n-Nitroso-di-n-propylamine

Concen: 6.780 ng

RT: 7.22 min Scan# 872

Delta R.T. 0.12 min

Lab File: BF098552.D

Acq: 15 Sep 2017 2:36

Instrument :

BNA_F

ClientSampleId :

SP-2

Tot Ion: 70 Resp: 48016

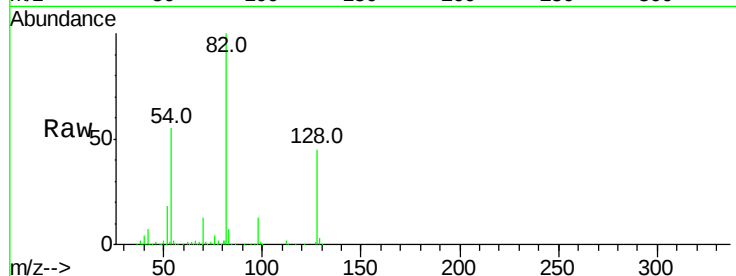
Ion Ratio Lower Upper

70 100

42 52.4 47.2 70.8

101 0.0 7.2 10.8#

130 2.2 15.9 23.9#

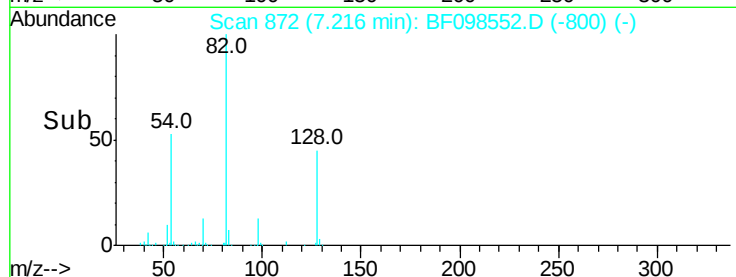
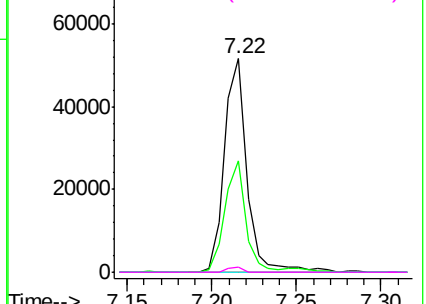


Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.93 min Scan# 994

Delta R.T. -0.02 min

Lab File: BF098552.D

Acq: 15 Sep 2017 2:36

Tgt Ion: 136 Resp: 551970

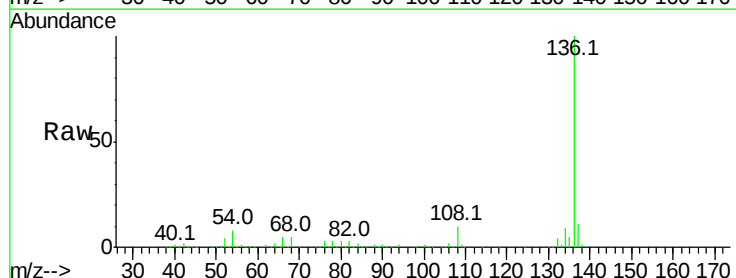
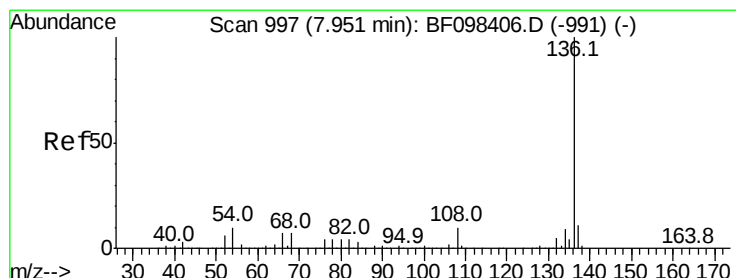
Ion Ratio Lower Upper

136 100

137 10.8 8.5 12.7

54 8.4 4.9 7.3#

68 5.3 4.1 6.1

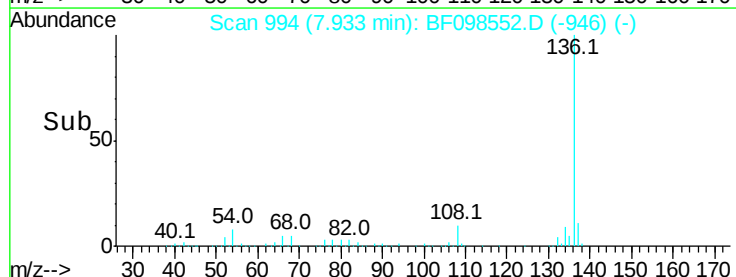
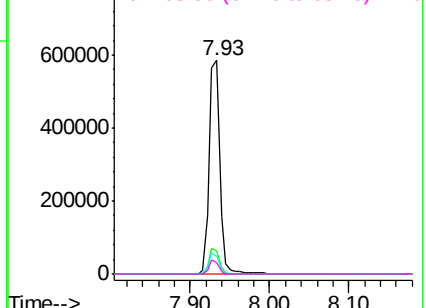


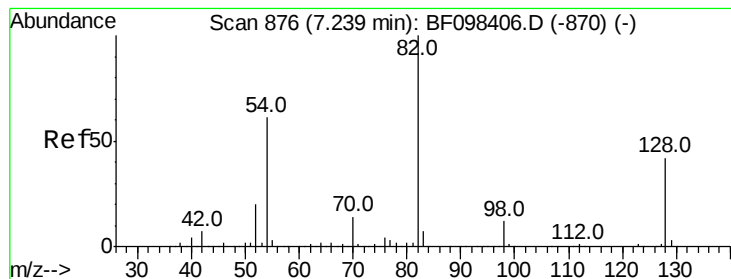
Abundance Ion 136.00 (135.70 to 136.70): BF0

Ion 137.00 (136.70 to 137.70): BF0

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0





#23

Nitrobenzene-d5

Concen: 36.972 ng

RT: 7.22 min Scan# 872

Delta R.T. -0.02 min

Lab File: BF098552.D

Acq: 15 Sep 2017 2:36

Instrument :

BNA_F

ClientSampled :

SP-2

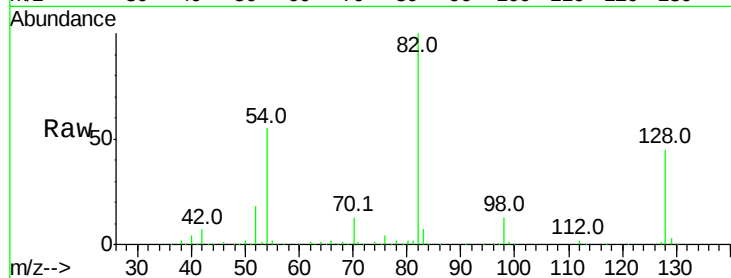
Tot Ion: 82 Resp: 366053

Ion Ratio Lower Upper

82 100

128 45.3 34.0 51.0

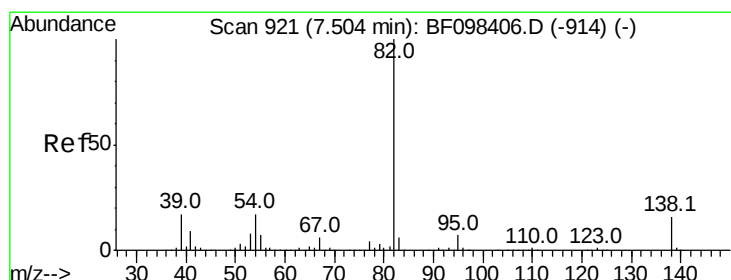
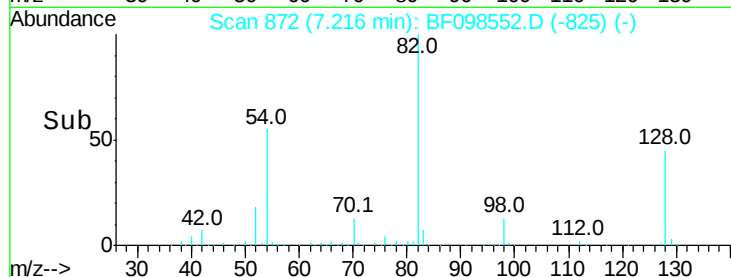
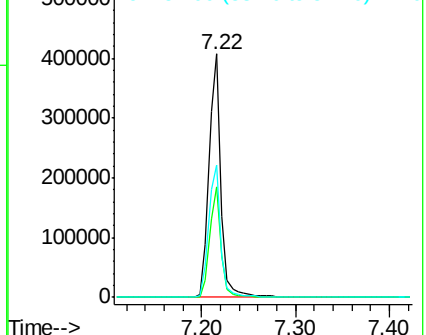
54 54.5 42.2 63.2



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): BF0

Ion 54.00 (53.70 to 54.70): BF0



#25

Isophorone

Concen: 17.901 ng

RT: 7.22 min Scan# 872

Delta R.T. -0.29 min

Lab File: BF098552.D

Acq: 15 Sep 2017 2:36

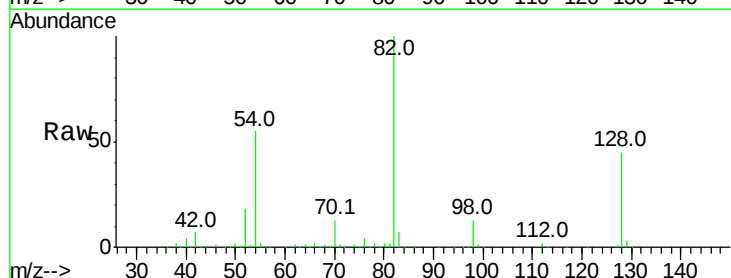
Tgt Ion: 82 Resp: 358599

Ion Ratio Lower Upper

82 100

95 0.0 5.3 7.9#

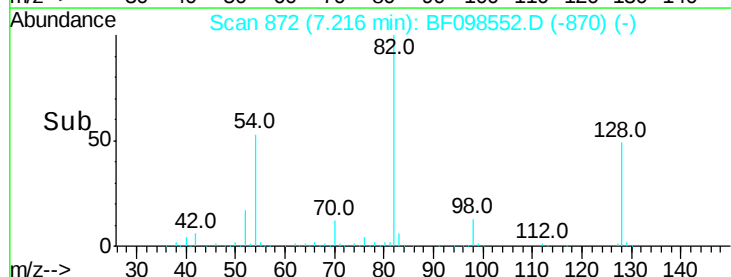
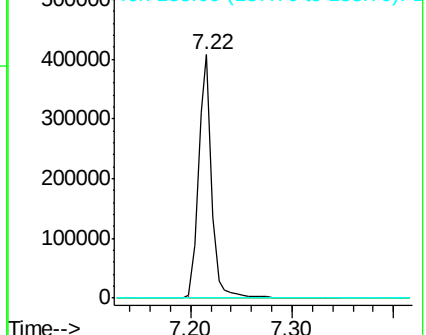
138 0.0 13.1 19.7#

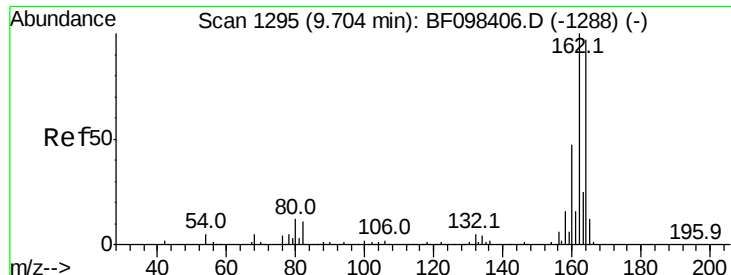


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0

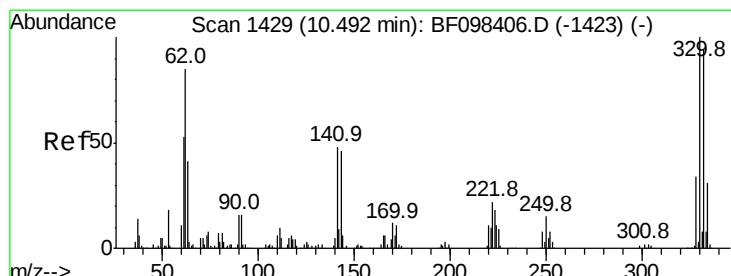
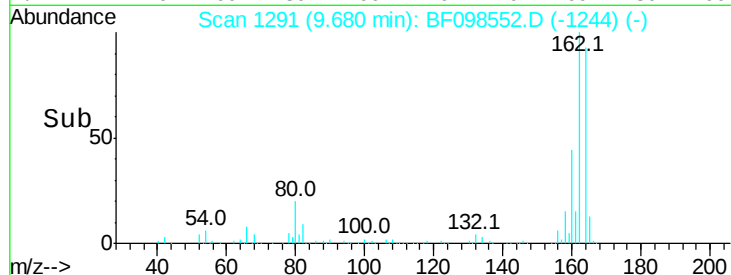
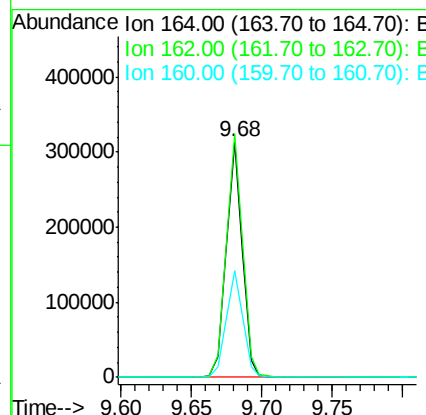
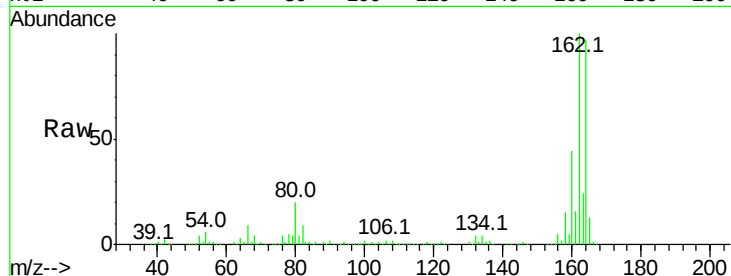




#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.68 min Scan# 1291
 Delta R.T. -0.02 min
 Lab File: BF098552.D
 Acq: 15 Sep 2017 2:36

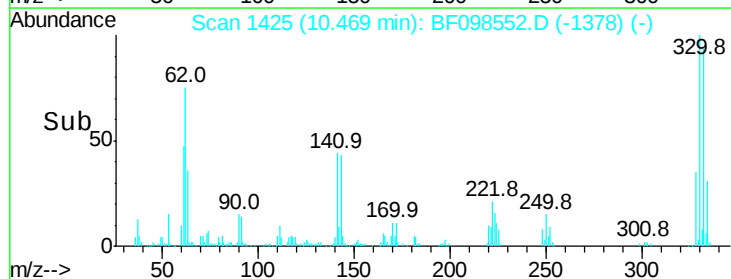
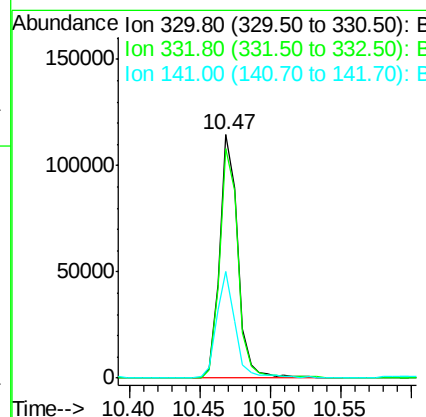
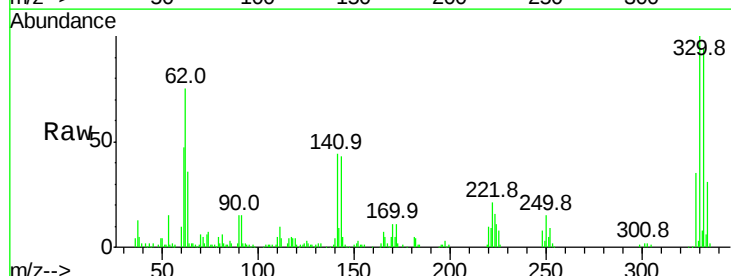
Instrument :
 BNA_F
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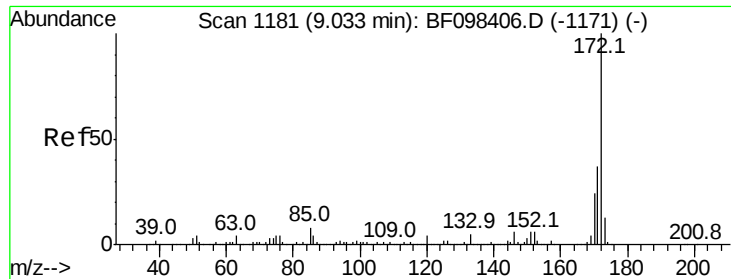
Tot Ion	Ratio	Lower	Upper
164	100		
162	103.6	82.6	123.8
160	45.2	36.2	54.2



#41
 2,4,6-Tribromophenol
 Concen: 62.241 ng
 RT: 10.47 min Scan# 1425
 Delta R.T. -0.02 min
 Lab File: BF098552.D
 Acq: 15 Sep 2017 2:36

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.4	76.6	115.0
141	44.3	31.4	47.2

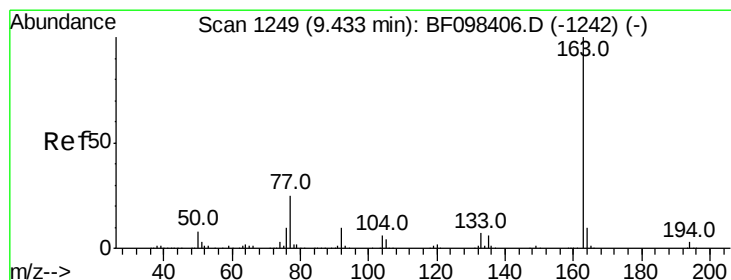
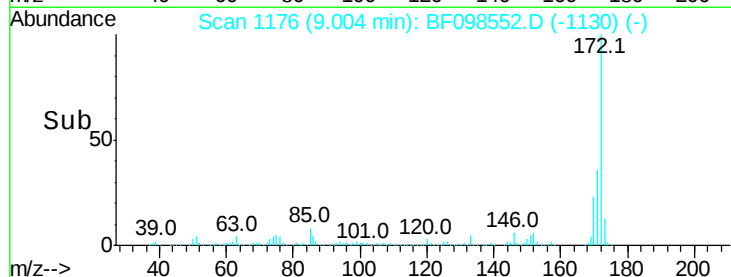
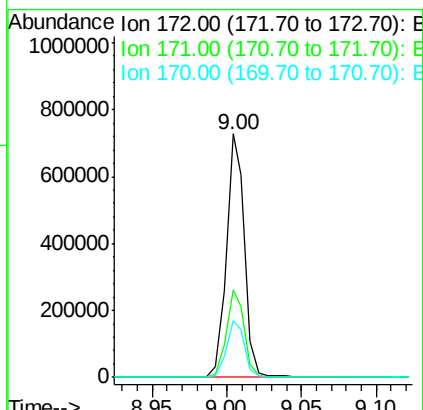
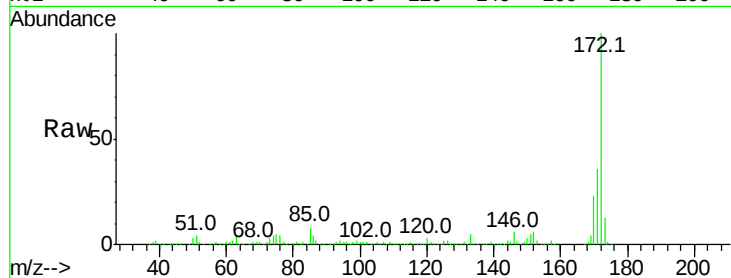




#44
2-Fluorobiphenyl
Concen: 42.579 ng
RT: 9.00 min Scan# 1176
Delta R.T. -0.03 min
Lab File: BF098552.D
Acq: 15 Sep 2017 2:36

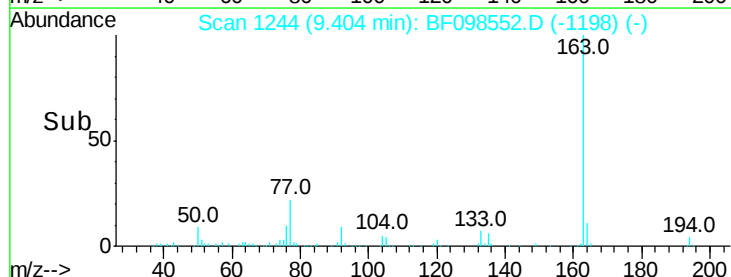
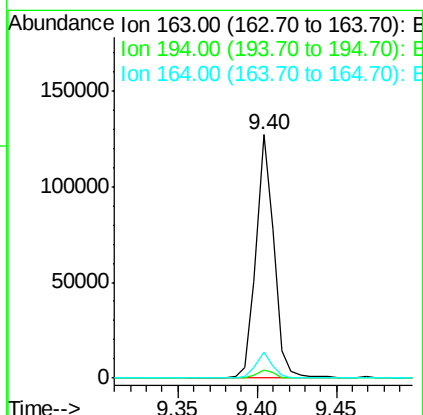
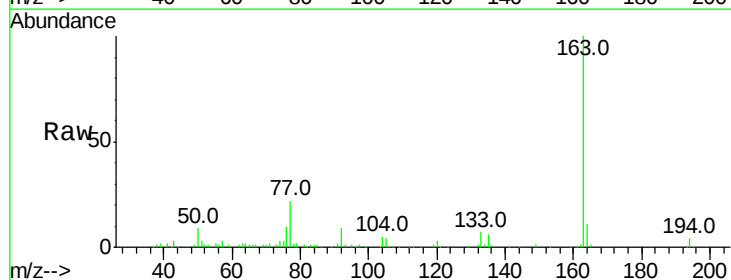
Instrument :
BNA_F
ClientSampleId :
SP-2

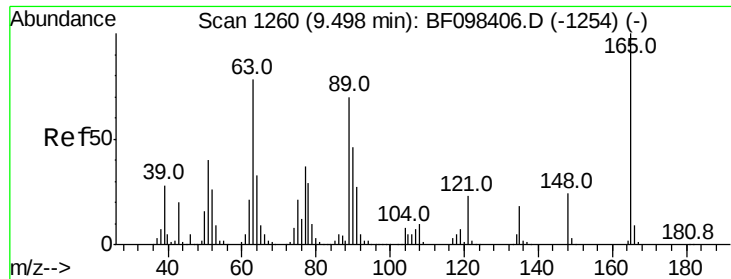
Tot Ion:172 Resp: 623684
Ion Ratio Lower Upper
172 100
171 36.0 29.6 44.4
170 23.4 19.8 29.8



#49
Dimethylphthalate
Concen: 5.220 ng
RT: 9.40 min Scan# 1244
Delta R.T. -0.03 min
Lab File: BF098552.D
Acq: 15 Sep 2017 2:36

Tgt Ion:163 Resp: 100318
Ion Ratio Lower Upper
163 100
194 3.6 2.6 4.0
164 10.5 8.4 12.6

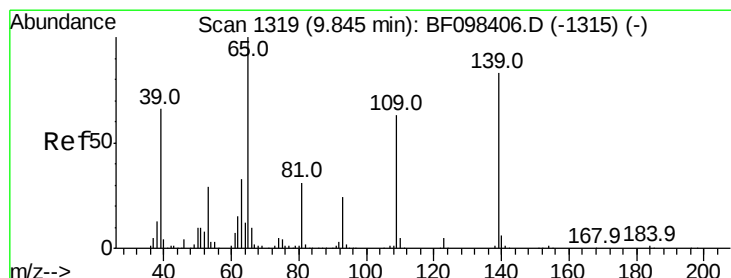
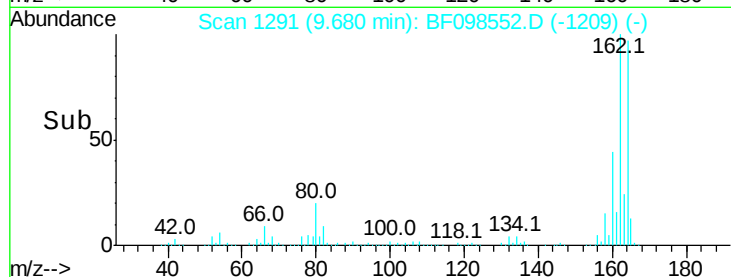
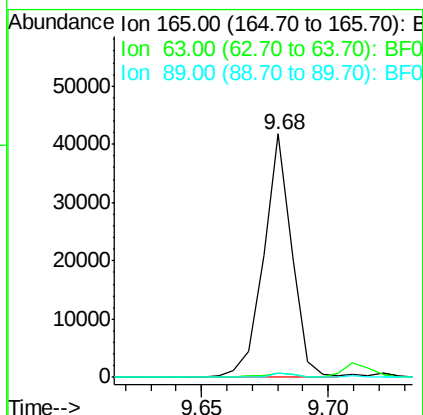
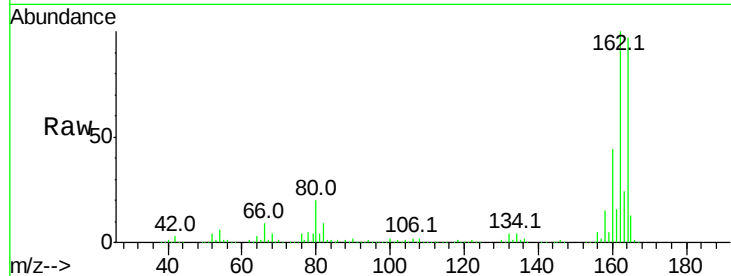




#50
 2,6-Dinitrotoluene
 Concen: 8.198 ng
 RT: 9.68 min Scan# 1291
 Delta R.T. 0.18 min
 Lab File: BF098552.D
 Acq: 15 Sep 2017 2:36

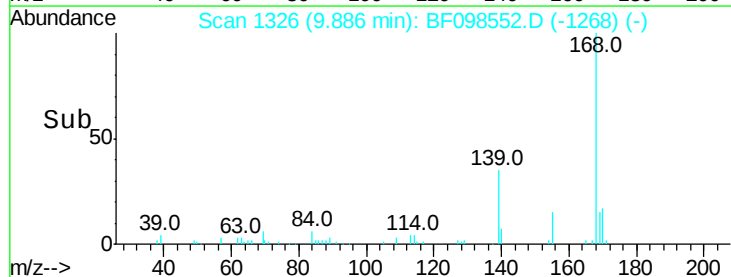
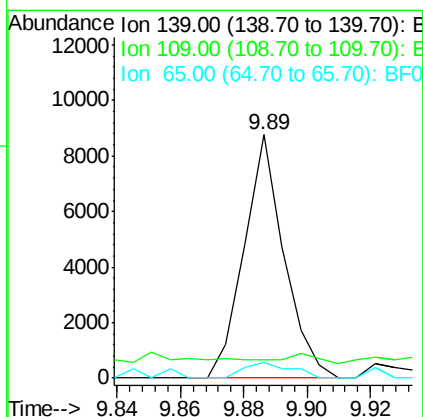
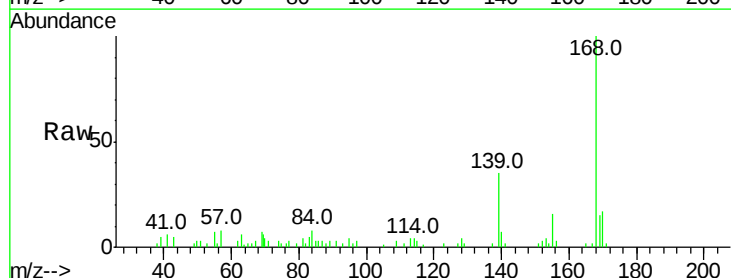
Instrument :
 BNA_F
 ClientSampled :
 SP-2

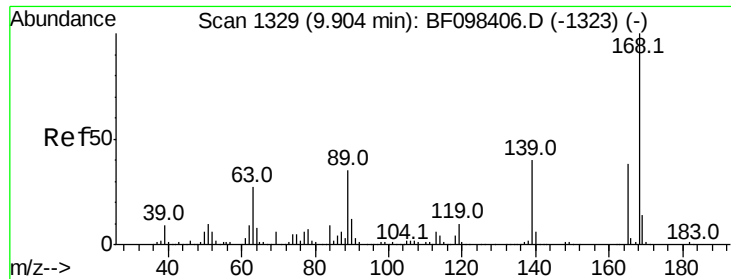
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.8	34.3	51.5#
89	1.8	37.1	55.7#



#55
 4-Nitrophenol
 Concen: 2.796 ng
 RT: 9.89 min Scan# 1326
 Delta R.T. 0.04 min
 Lab File: BF098552.D
 Acq: 15 Sep 2017 2:36

Tgt Ion	Ratio	Lower	Upper
139	100		
109	7.7	34.1	74.1#
65	6.6	31.4	71.4#

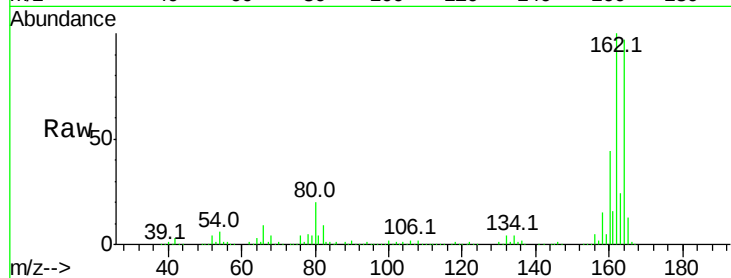




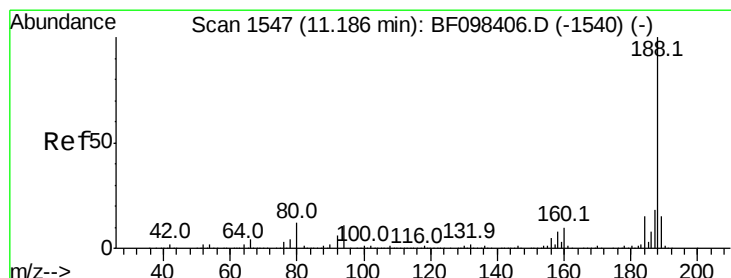
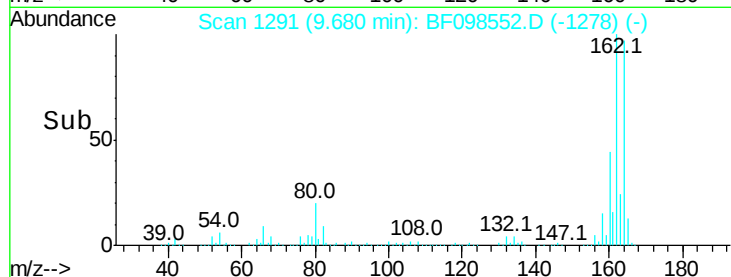
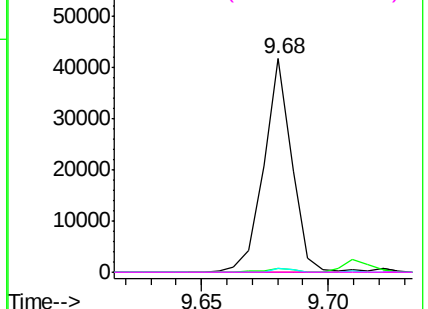
#56
2,4-Dinitrotoluene
Concen: 6.743 ng
RT: 9.68 min Scan# 1291
Delta R.T. -0.22 min
Lab File: BF098552.D
Acq: 15 Sep 2017 2:36

Instrument :
BNA_F
ClientSampleId :
SP-2

Tot Ion:165 Resp: 32362
Ion Ratio Lower Upper
165 100
63 1.8 25.4 38.0#
89 1.8 46.4 69.6#
182 0.0 1.8 2.6#

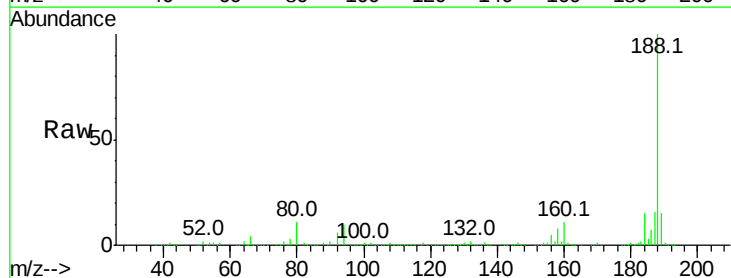


Abundance Ion 165.00 (164.70 to 165.70): E

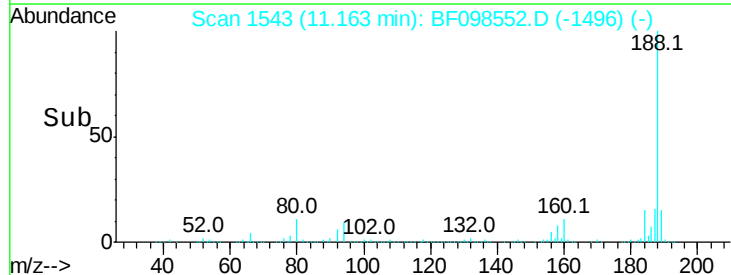
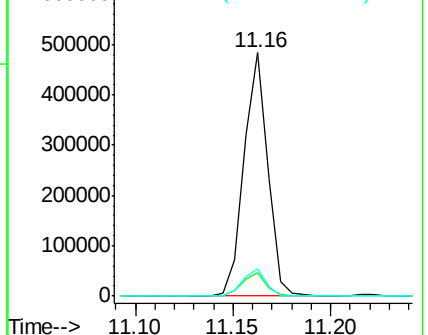


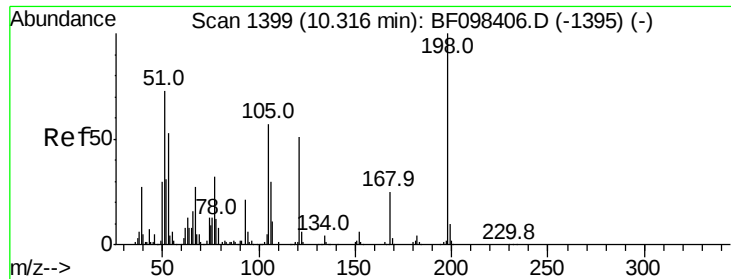
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.16 min Scan# 1543
Delta R.T. -0.02 min
Lab File: BF098552.D
Acq: 15 Sep 2017 2:36

Tgt Ion:188 Resp: 407480
Ion Ratio Lower Upper
188 100
94 9.6 9.4 14.2
80 10.9 10.2 15.2



Abundance Ion 188.00 (187.70 to 188.70): E





#64

4,6-Dinitro-2-methylphenol

Concen: 5.058 ng

RT: 10.47 min Scan# 1425

Delta R.T. 0.15 min

Lab File: BF098552.D

Acq: 15 Sep 2017 2:36

Instrument :

BNA_F

ClientSampleId :

SP-2

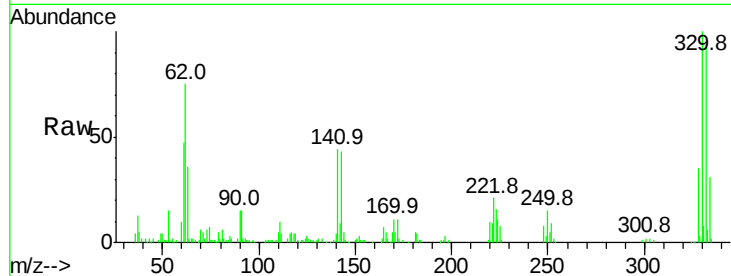
Tot Ion:198 Resp: 261

Ion Ratio Lower Upper

198 100

51 268.4 53.2 93.2#

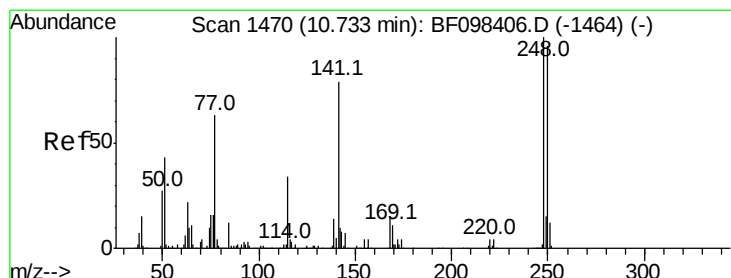
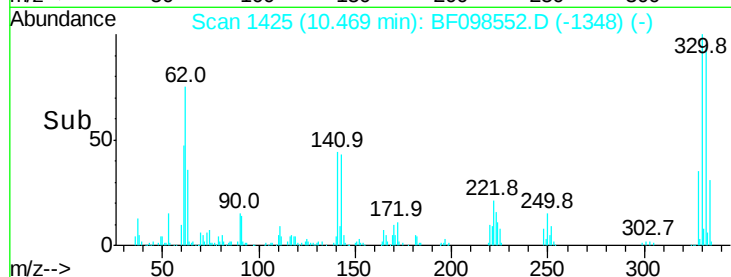
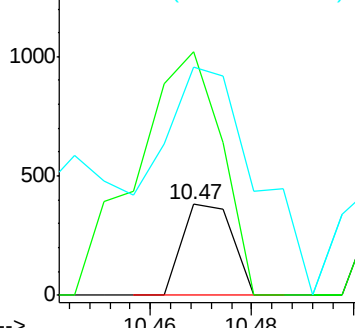
105 252.1 45.8 85.8#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF0

Ion 105.00 (104.70 to 105.70): E



#66

4-Bromophenyl-phenylether

Concen: 2.032 ng

RT: 10.47 min Scan# 1425

Delta R.T. -0.26 min

Lab File: BF098552.D

Acq: 15 Sep 2017 2:36

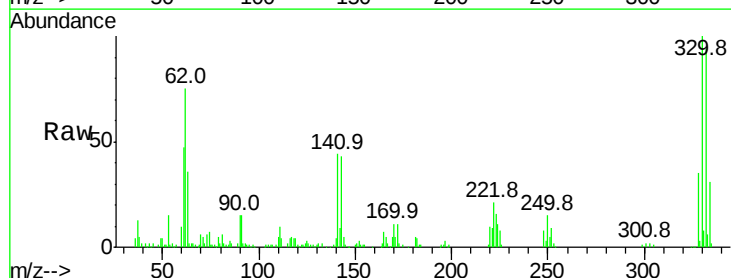
Tgt Ion:248 Resp: 7859

Ion Ratio Lower Upper

248 100

250 191.7 76.8 115.2#

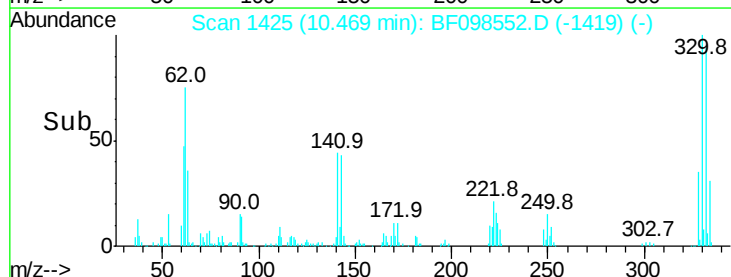
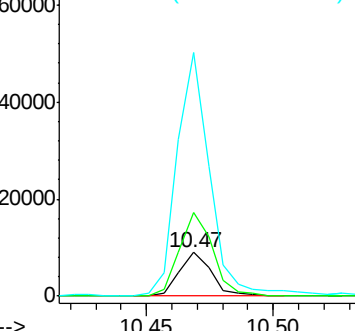
141 559.1 68.6 103.0#

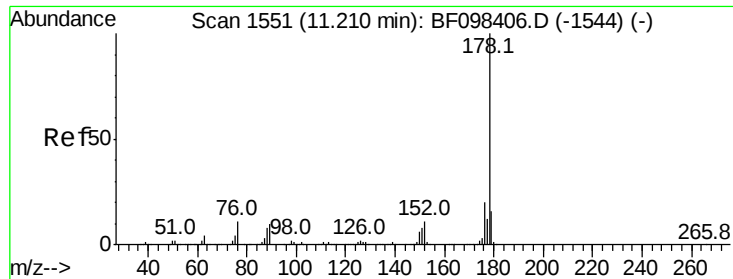


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#70

Phenanthrene

Concen: 6.219 ng

RT: 11.19 min Scan# 1547

Delta R.T. -0.02 min

Lab File: BF098552.D

Acq: 15 Sep 2017 2:36

Instrument :

BNA_F

ClientSampleId :

SP-2

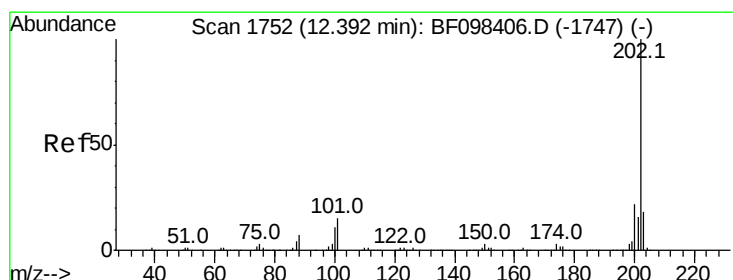
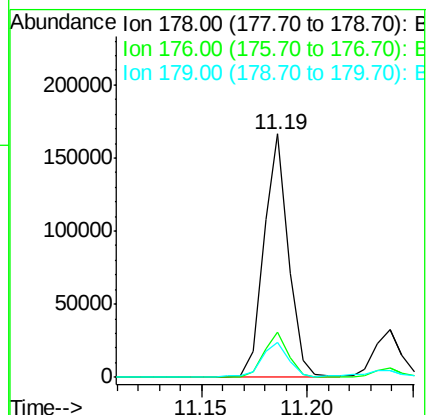
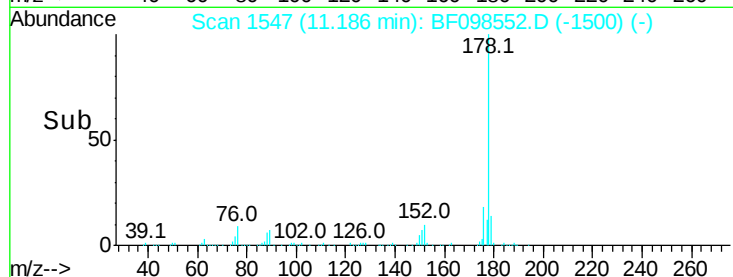
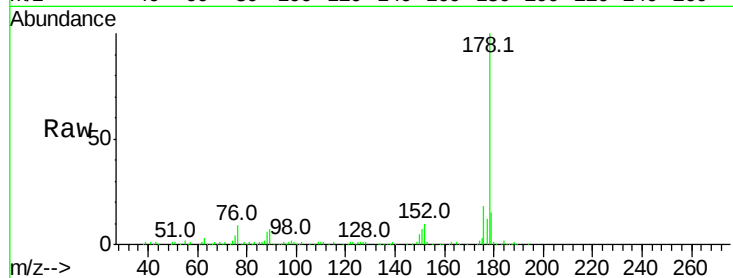
Tot Ion:178 Resp: 134348

Ion Ratio Lower Upper

178 100

176 18.3 16.2 24.4

179 14.6 12.6 19.0



#74

Fluoranthene

Concen: 7.453 ng

RT: 12.37 min Scan# 1748

Delta R.T. -0.02 min

Lab File: BF098552.D

Acq: 15 Sep 2017 2:36

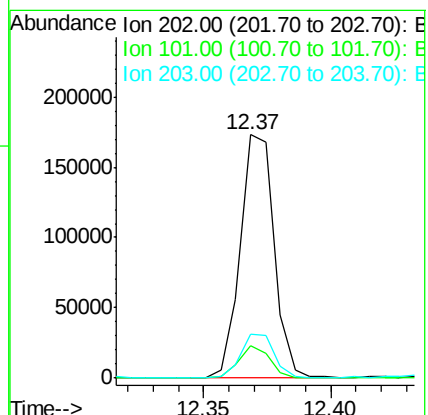
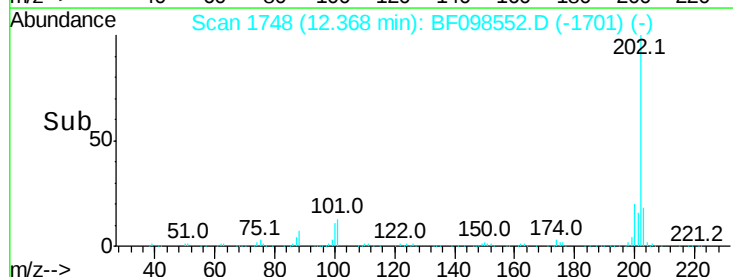
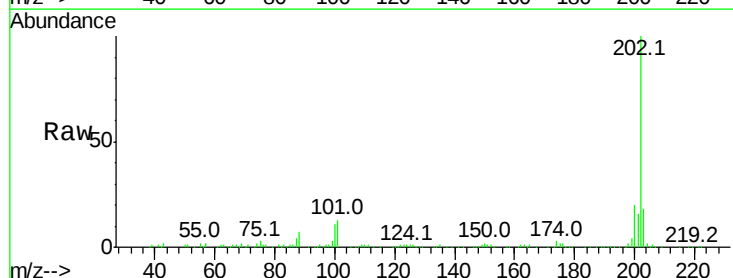
Tgt Ion:202 Resp: 161166

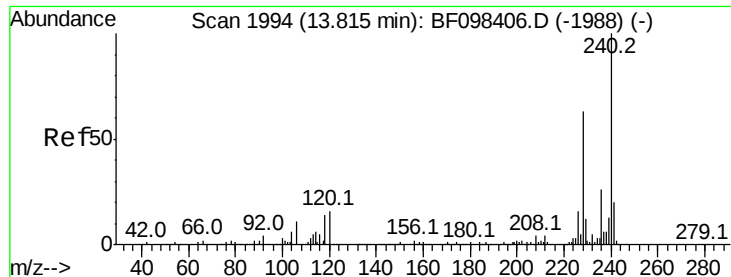
Ion Ratio Lower Upper

202 100

101 13.3 0.0 33.2

203 18.3 0.0 38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.79 min Scan# 1990

Delta R.T. -0.02 min

Lab File: BF098552.D

Acq: 15 Sep 2017 2:36

Instrument :

BNA_F

ClientSampleId :

SP-2

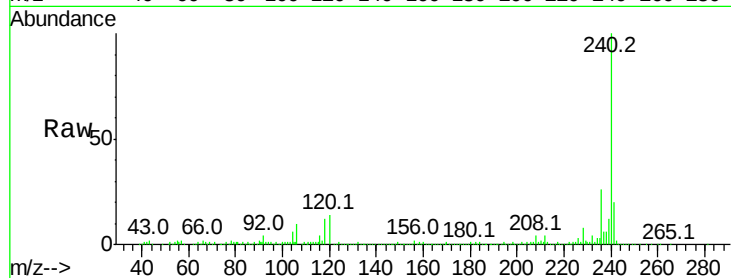
Tot Ion:240 Resp: 296261

Ion Ratio Lower Upper

240 100

120 13.6 5.8 8.8#

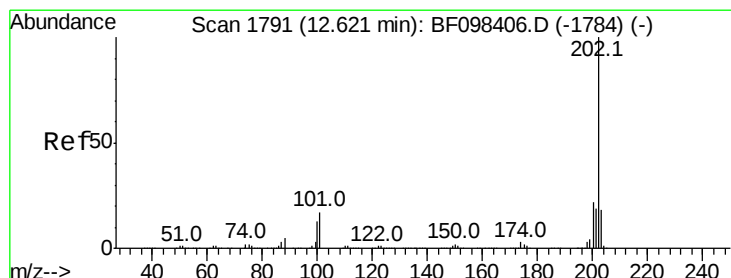
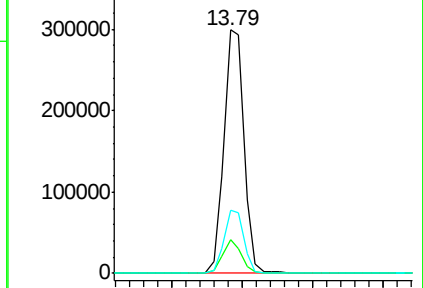
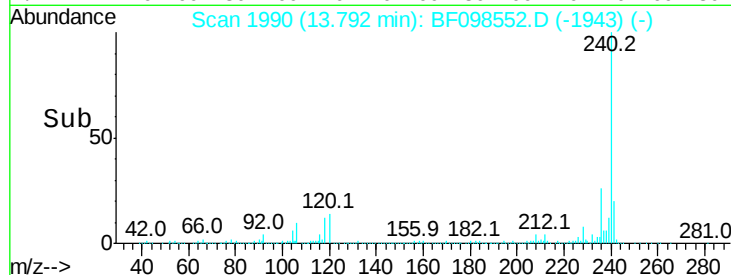
236 25.9 20.5 30.7



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



#77

Pyrene

Concen: 6.424 ng

RT: 12.60 min Scan# 1787

Delta R.T. -0.02 min

Lab File: BF098552.D

Acq: 15 Sep 2017 2:36

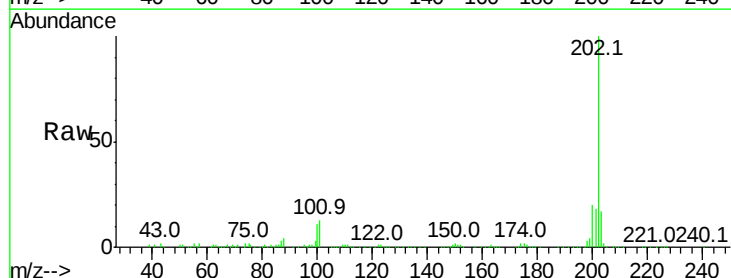
Tgt Ion:202 Resp: 150131

Ion Ratio Lower Upper

202 100

200 20.1 17.6 26.4

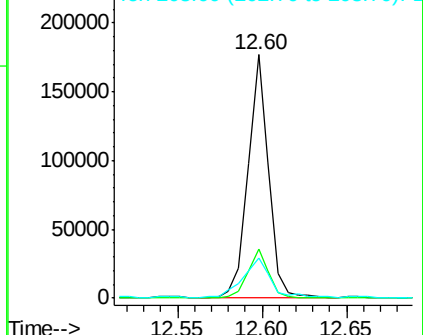
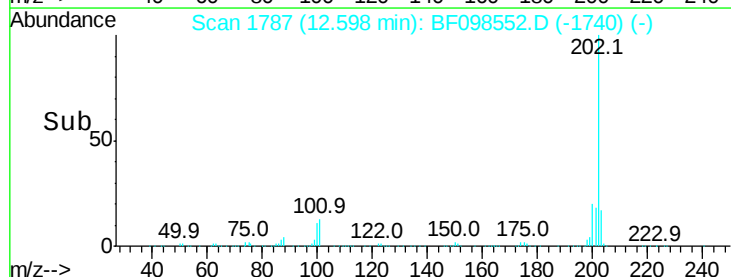
203 16.7 14.4 21.6

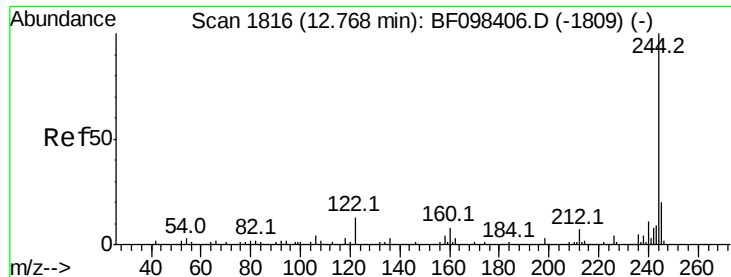


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 31.943 ng

RT: 12.74 min Scan# 1812

Delta R.T. -0.02 min

Lab File: BF098552.D

Acq: 15 Sep 2017 2:36

Instrument :

BNA_F

ClientSampleId :

SP-2

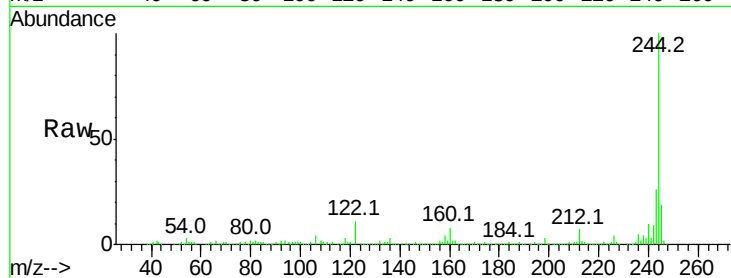
Tot Ion:244 Resp: 438441

Ion Ratio Lower Upper

244 100

212 7.2 6.0 9.0

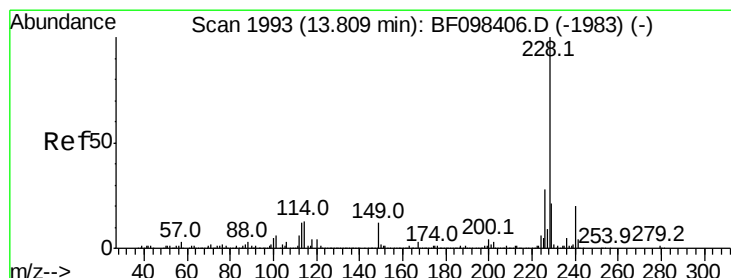
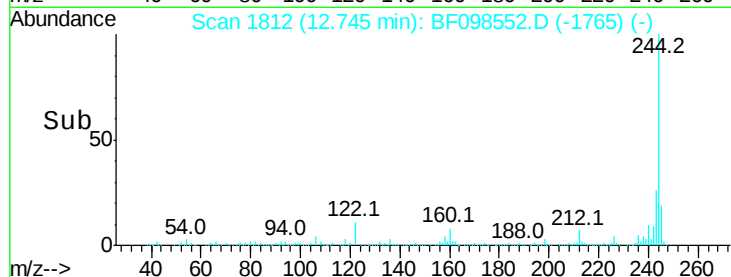
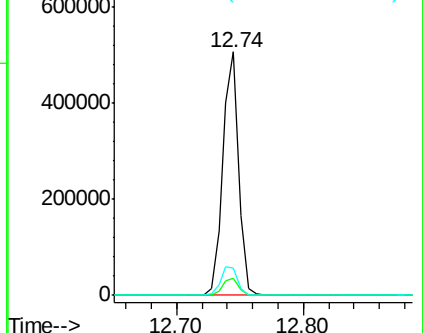
122 11.4 10.3 15.5



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



#80

Benzo(a)anthracene

Concen: 3.120 ng

RT: 13.79 min Scan# 1989

Delta R.T. -0.02 min

Lab File: BF098552.D

Acq: 15 Sep 2017 2:36

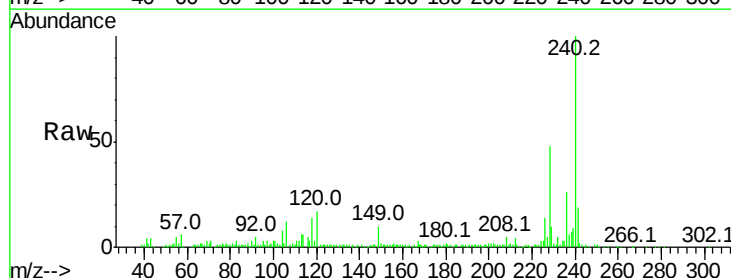
Tgt Ion:228 Resp: 54187

Ion Ratio Lower Upper

228 100

226 28.5 22.6 33.8

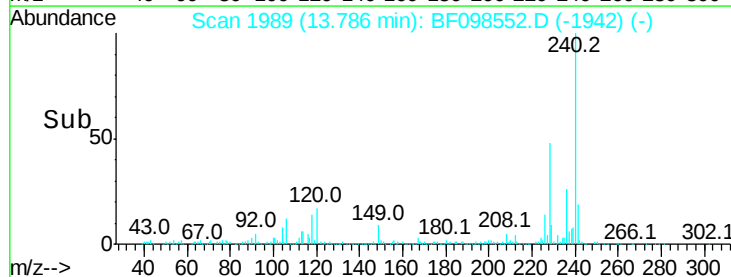
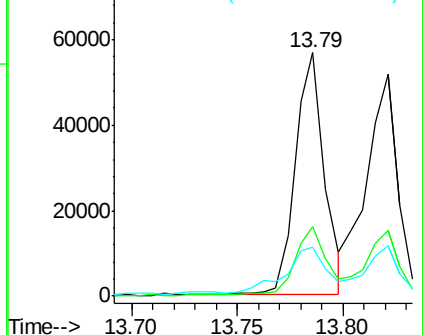
229 20.1 16.3 24.5

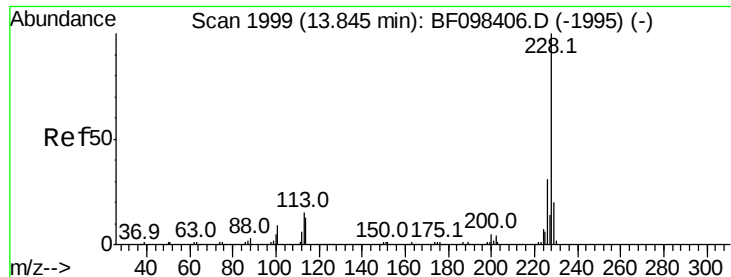


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 3.105 ng

RT: 13.82 min Scan# 1995

Delta R.T. -0.02 min

Lab File: BF098552.D

Acq: 15 Sep 2017 2:36

Instrument :

BNA_F

ClientSampleId :

SP-2

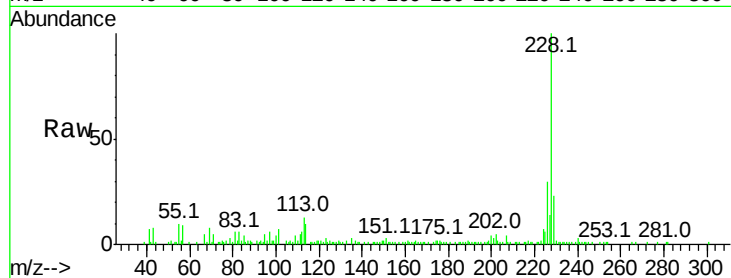
Tot Ion:228 Resp: 54509

Ion Ratio Lower Upper

228 100

226 29.6 24.9 37.3

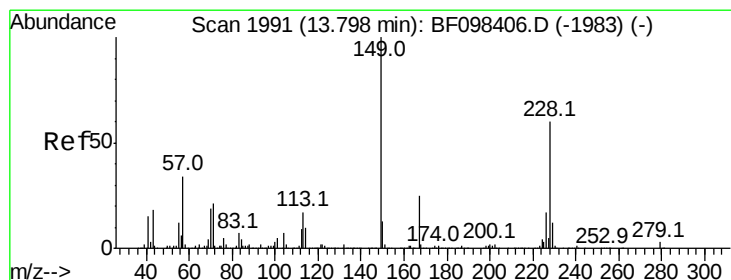
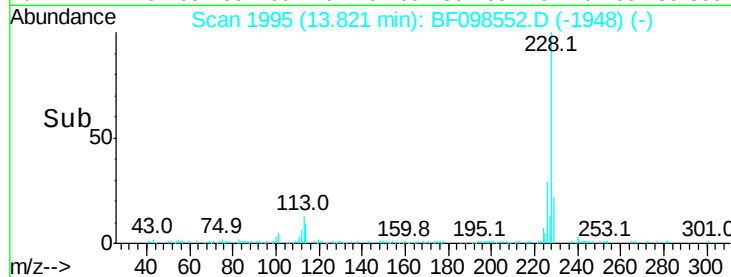
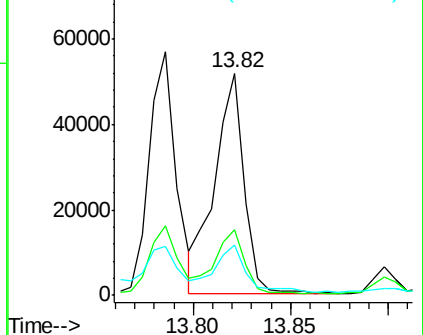
229 22.7 15.8 23.6



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



#83

Bis(2-ethylhexyl)phthalate

Concen: 2.102 ng

RT: 13.78 min Scan# 1988

Delta R.T. -0.02 min

Lab File: BF098552.D

Acq: 15 Sep 2017 2:36

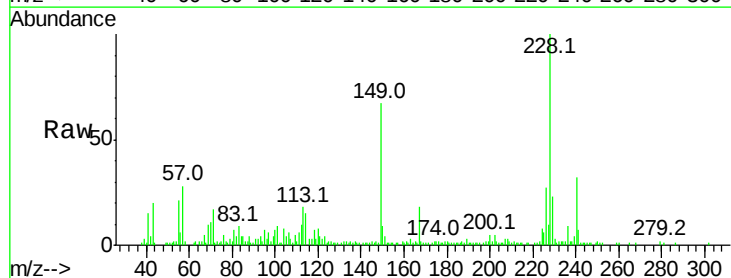
Tgt Ion:149 Resp: 26743

Ion Ratio Lower Upper

149 100

167 27.3 21.0 31.4

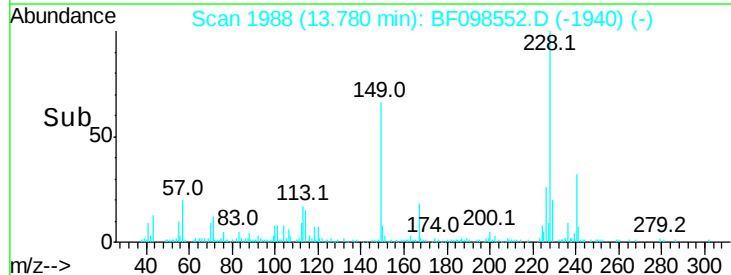
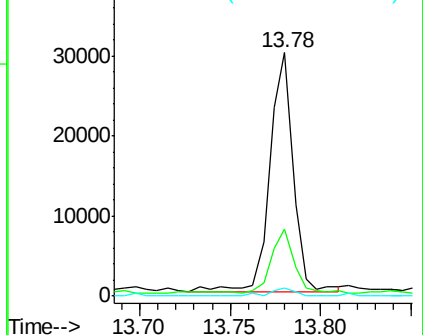
279 3.5 1.9 2.9#

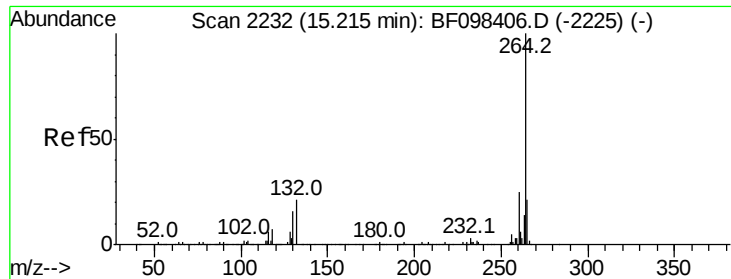


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

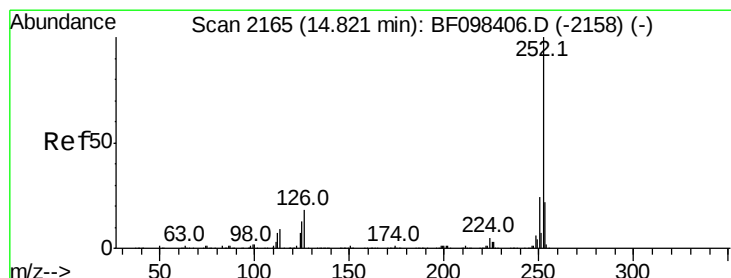
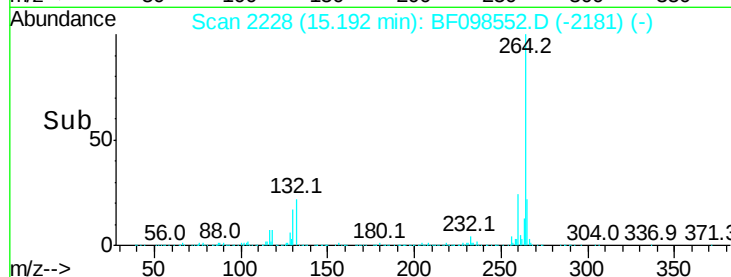
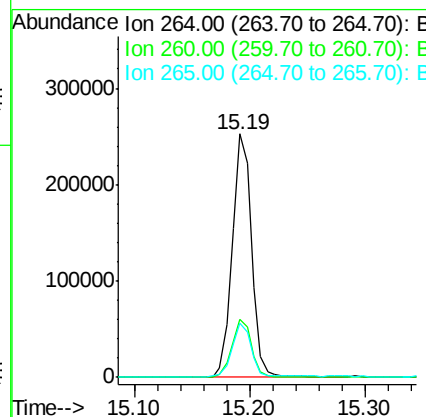
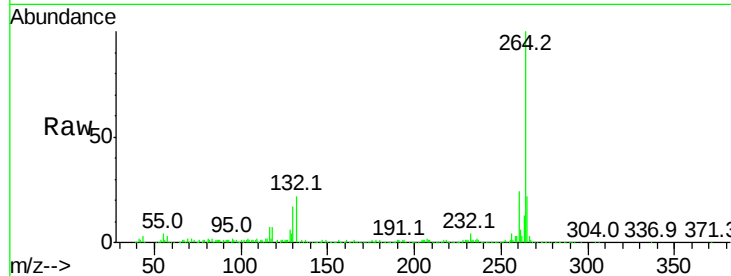




#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.19 min Scan# 2228
Delta R.T. -0.02 min
Lab File: BF098552.D
Acq: 15 Sep 2017 2:36

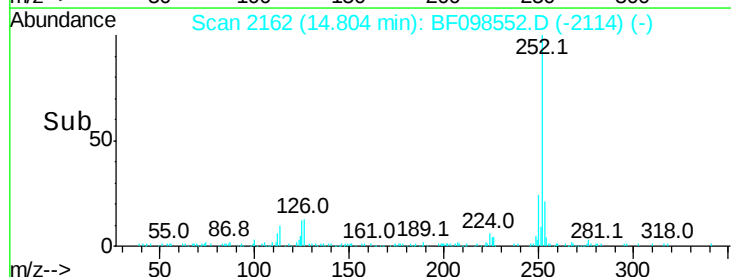
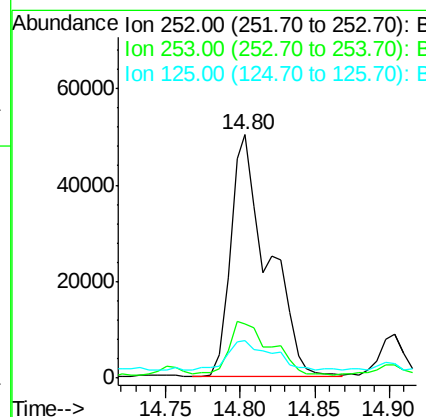
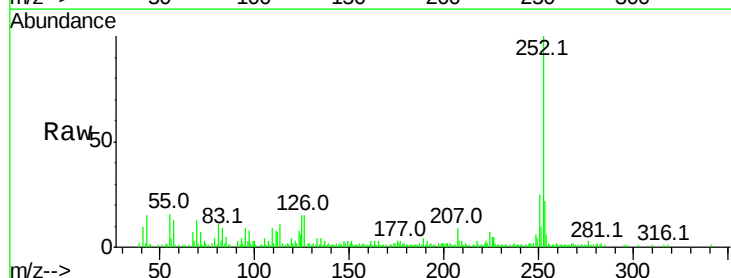
Instrument :
BNA_F
ClientSampleId :
SP-2

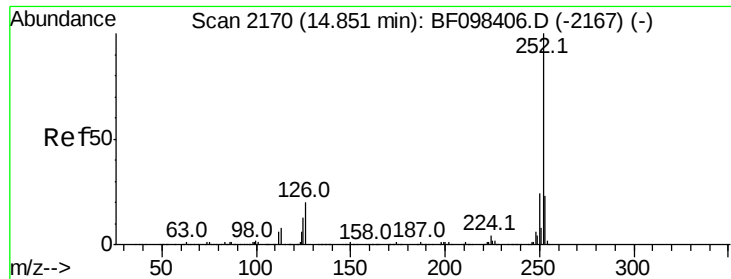
Tot Ion:264 Resp: 293366
Ion Ratio Lower Upper
264 100
260 23.9 19.5 29.3
265 22.3 17.2 25.8



#87
Benzo(b)fluoranthene
Concen: 4.735 ng
RT: 14.80 min Scan# 2162
Delta R.T. -0.02 min
Lab File: BF098552.D
Acq: 15 Sep 2017 2:36

Tgt Ion:252 Resp: 87347
Ion Ratio Lower Upper
252 100
253 22.2 18.1 27.1
125 15.3 9.8 14.8#

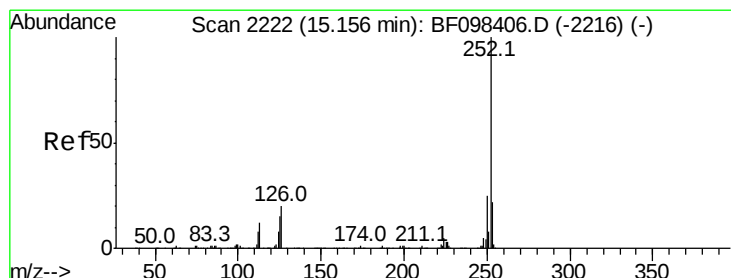
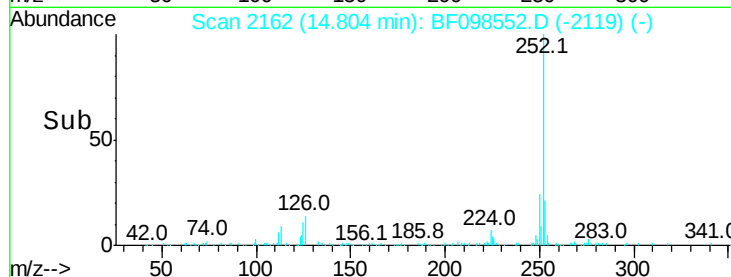
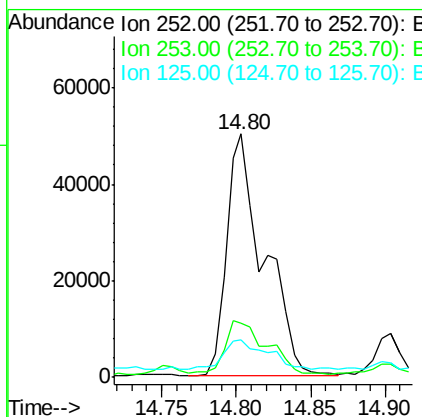
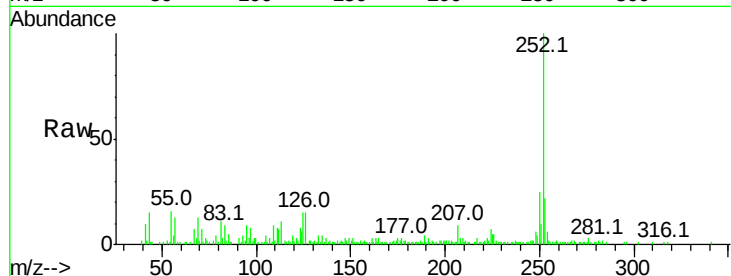




#88
Benzo(k)fluoranthene
Concen: 5.072 ng
RT: 14.80 min Scan# 2162
Delta R.T. -0.05 min
Lab File: BF098552.D
Acq: 15 Sep 2017 2:36

Instrument :
BNA_F
ClientSampleId :
SP-2

Tot Ion:	252	Resp:	87347
Ion	Ratio	Lower	Upper
252	100		
253	22.2	18.4	27.6
125	15.3	13.1	19.7



#89
Benzo(a)pyrene
Concen: 2.660 ng
RT: 15.14 min Scan# 2219
Delta R.T. -0.02 min
Lab File: BF098552.D
Acq: 15 Sep 2017 2:36

Tgt Ion:	252	Resp:	43716
Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.5	26.3
125	14.2	11.0	16.4

