

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073118\
 Data File : BF107878.D
 Acq On : 1 Aug 2018 4:36
 Operator : JU/SJ
 Sample : J4231-11DL 10X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 01 06:02:27 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 30 17:48:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	107845	20.00	ng	0.00
21) Naphthalene-d8	8.24	136	525061	20.00	ng	0.00
38) Acenaphthene-d10	10.00	164	192004	20.00	ng	0.00
63) Phenanthrene-d10	11.50	188	377028	20.00	ng	0.00
75) Chrysene-d12	14.15	240	352148	20.00	ng	0.00
86) Perylene-d12	15.69	264	267542	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.63	112	8363	1.32	ng	0.04
7) Phenol-d6	6.64	99	20882	2.50	ng	0.04
23) Nitrobenzene-d5	7.57	82	21888	2.40	ng	0.04
41) 2,4,6-Tribromophenol	10.81	330	18775	7.20	ng	0.00
44) 2-Fluorobiphenyl	9.32	172	114978	8.34	ng	0.00
78) Terphenyl-d14	13.08	244	128517	7.91	ng	0.00

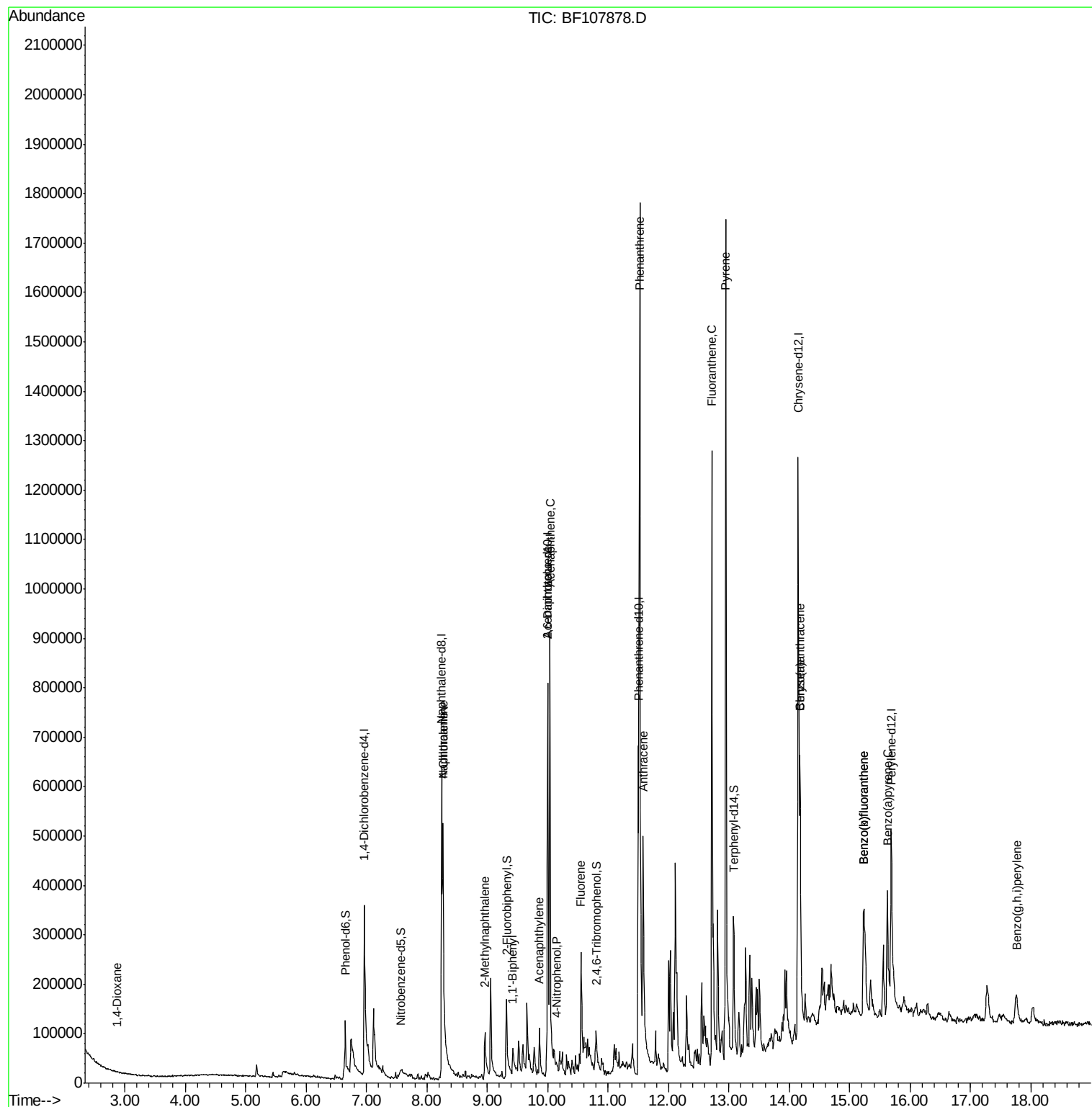
Target Compounds				Qvalue		
2) 1,4-Dioxane	2.88	88	1417	6.212	ng	# 32
31) Naphthalene	8.27	128	337931	13.846	ng	98
33) 4-Chloroaniline	8.27	127	40379	3.873	ng	# 31
37) 2-Methylnaphthalene	8.96	142	58919	3.843	ng	99
45) 1,1'-Biphenyl	9.42	154	56155	3.214	ng	98
48) Acenaphthylene	9.87	152	55563	2.720	ng	# 97
50) 2,6-Dinitrotoluene	10.00	165	25732	8.211	ng	# 27
51) Acenaphthene	10.04	154	245189	20.662	ng	99
55) 4-Nitrophenol	10.14	139	274	9.443	ng	# 9
57) Fluorene	10.55	166	126898	8.903	ng	94
70) Phenanthrene	11.52	178	827176	46.205	ng	99
71) Anthracene	11.58	178	406137	19.668	ng	98
74) Fluoranthene	12.72	202	659834	31.373	ng	97
77) Pyrene	12.95	202	914177	36.051	ng	98
80) Benzo(a)anthracene	14.18	228	245072	12.286	ng	94
82) Chrysene	14.18	228	245072	11.390	ng	97
87) Benzo(b)fluoranthene	15.24	252	238878	18.103	ng	96
88) Benzo(k)fluoranthene	15.24	252	238878	14.745	ng	99
89) Benzo(a)pyrene	15.62	252	188873	13.865	ng	96
91) Benzo(a,h,i)perylene	17.76	276	74602	6.489	ng	# 95

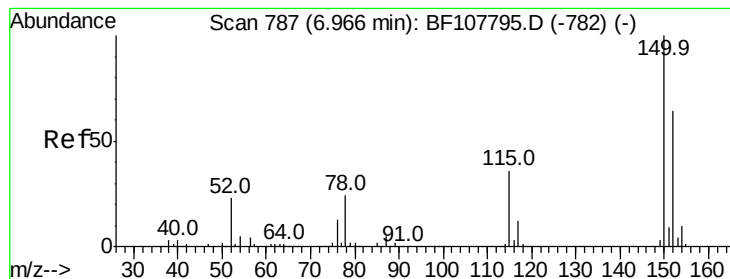
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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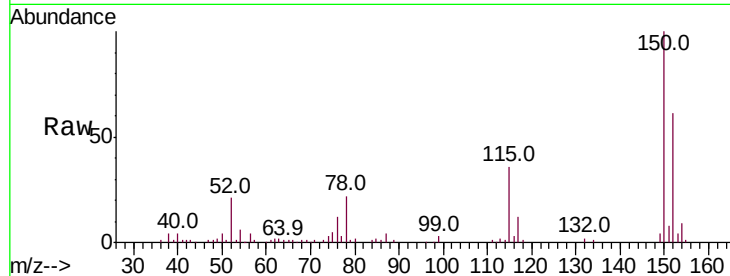


#1

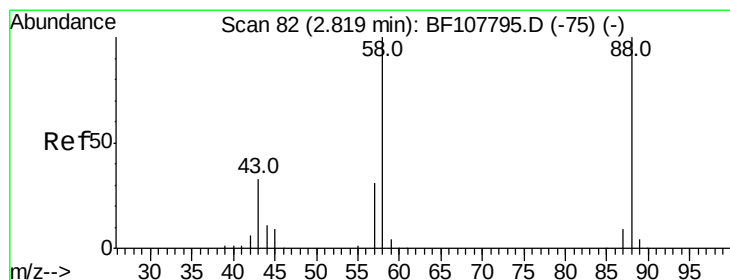
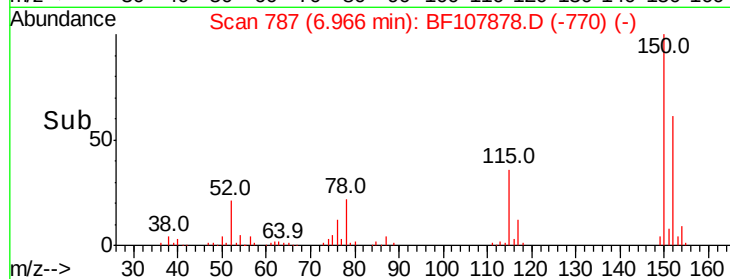
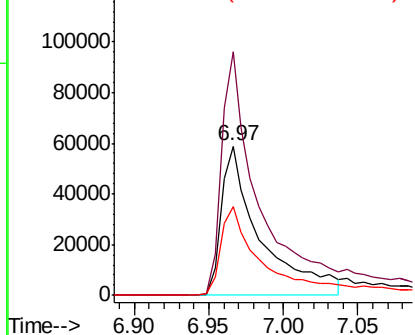
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.97 min Scan# 787
Delta R.T. 0.00 min
Lab File: BF107878.D
Acq: 1 Aug 2018 4:36

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	163.0	124.6	186.8
115	59.2	50.1	75.1



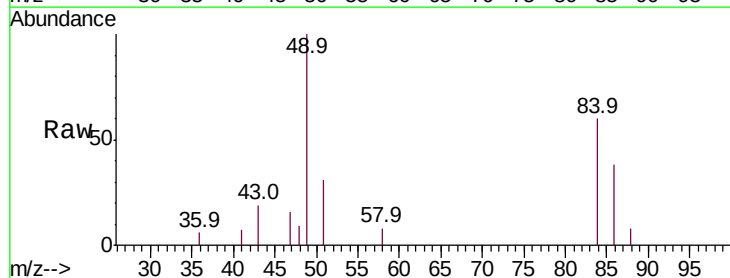
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



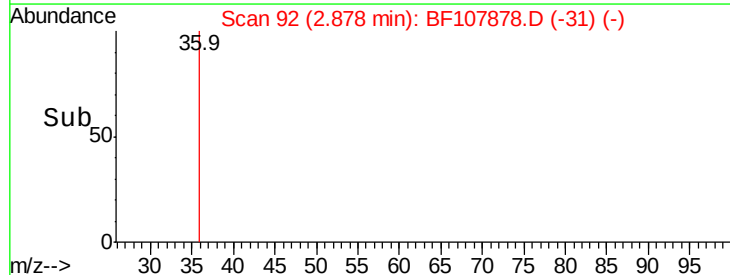
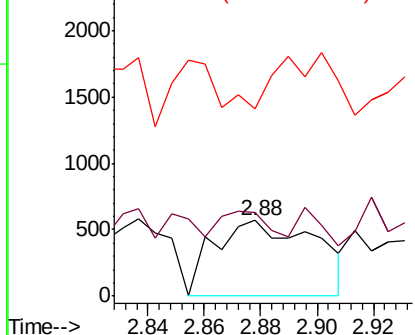
#2

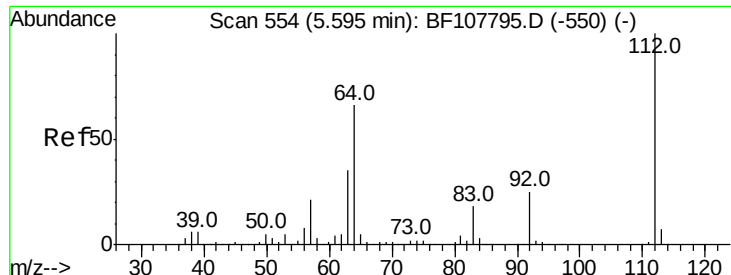
1,4-Dioxane
Concen: 6.212 ng
RT: 2.88 min Scan# 92
Delta R.T. 0.06 min
Lab File: BF107878.D
Acq: 1 Aug 2018 4:36

Tgt Ion	Ratio	Lower	Upper
88	100		
58	14.3	62.6	93.8#
43	0.0	24.6	37.0#



Abundance Ion 88.00 (87.70 to 88.70): BF1
Ion 58.00 (57.70 to 58.70): BF1
Ion 43.00 (42.70 to 43.70): BF1





#5

2-Fluorophenol

Concen: 1.318 ng

RT: 5.63 min Scan# 560

Delta R.T. 0.04 min

Lab File: BF107878.D

Acq: 1 Aug 2018 4:36

Instrument :

BNA_F

ClientSampleId :

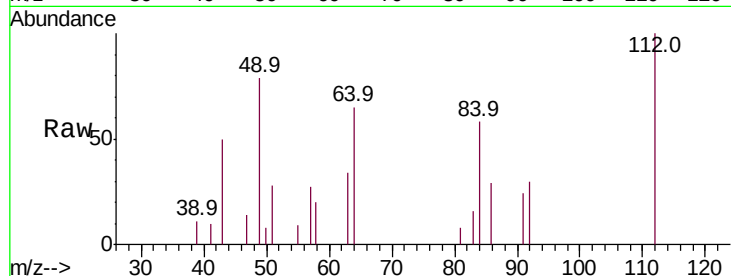
Tot Ion:112 Resp: 8363

Ion Ratio Lower Upper

112 100

64 65.2 47.9 71.9

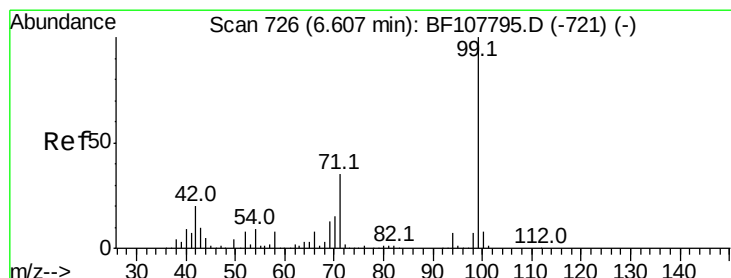
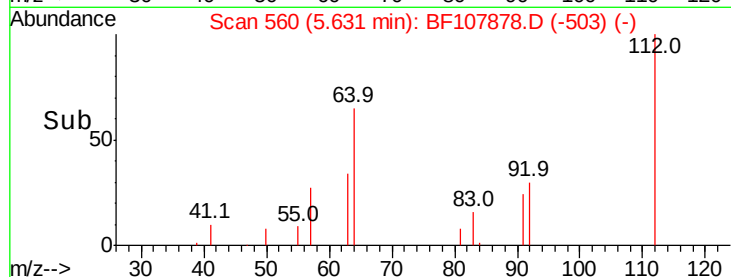
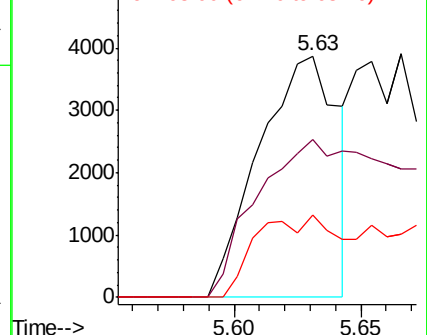
63 34.2 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1



#7

Phenol-d6

Concen: 2.497 ng

RT: 6.64 min Scan# 732

Delta R.T. 0.04 min

Lab File: BF107878.D

Acq: 1 Aug 2018 4:36

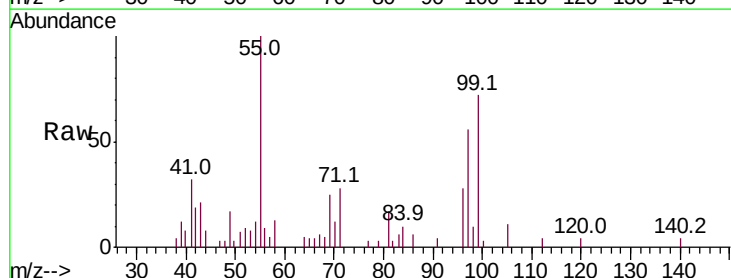
Tgt Ion: 99 Resp: 20882

Ion Ratio Lower Upper

99 100

42 26.7 14.5 21.7#

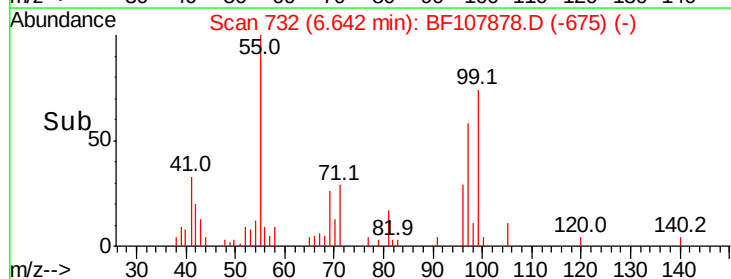
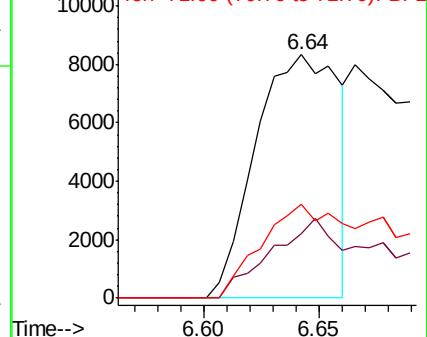
71 38.8 25.4 38.0#

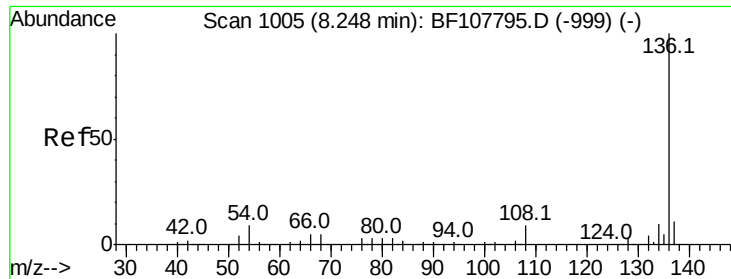


Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1

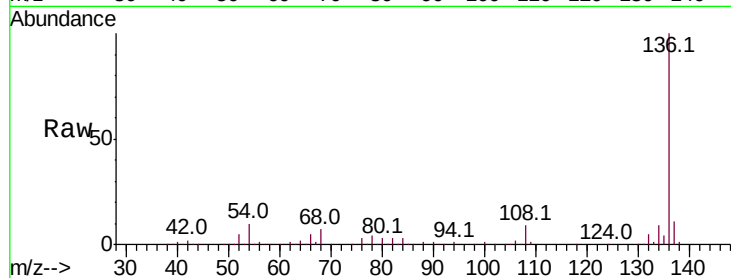




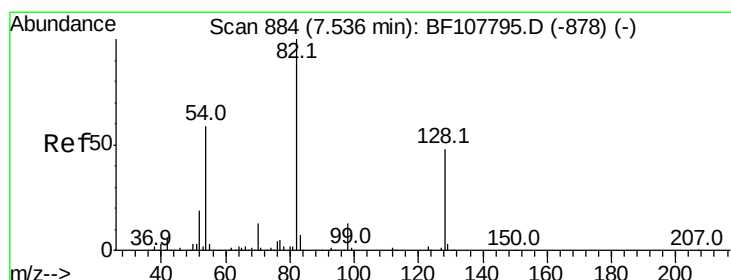
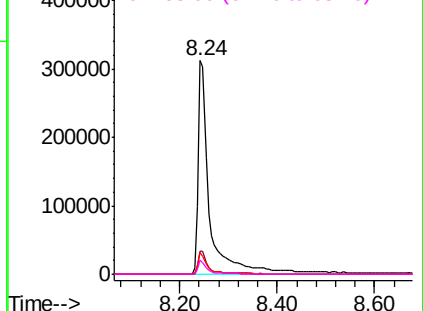
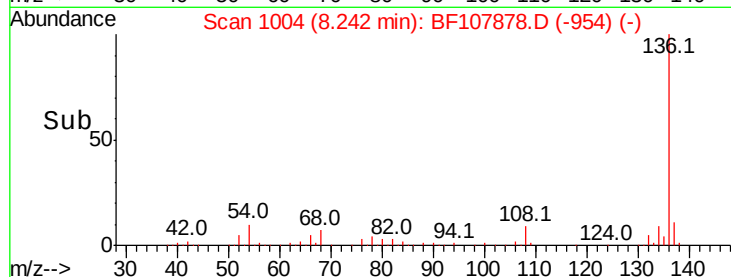
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.24 min Scan# 1004
Delta R.T. -0.01 min
Lab File: BF107878.D
Acq: 1 Aug 2018 4:36

Instrument :
BNA_F
ClientSampled :

Tot Ion:136	Resp:	525061
Ion Ratio	Lower	Upper
136	100	
137	10.7	8.9 13.3
54	10.2	6.6 9.8#
68	6.7	5.0 7.4

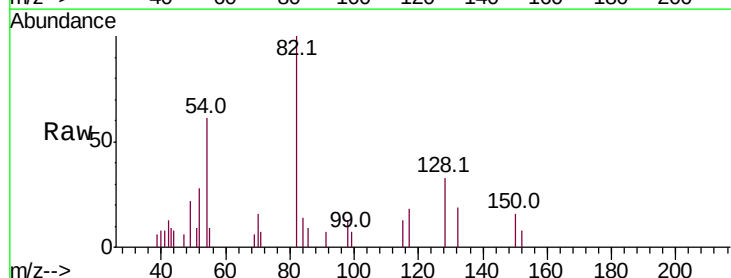


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

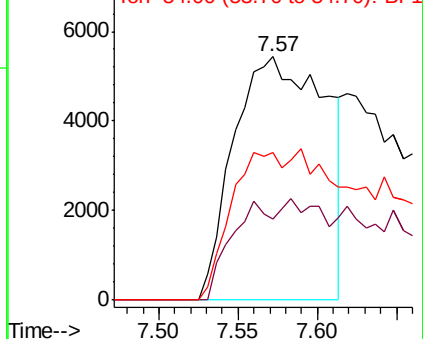
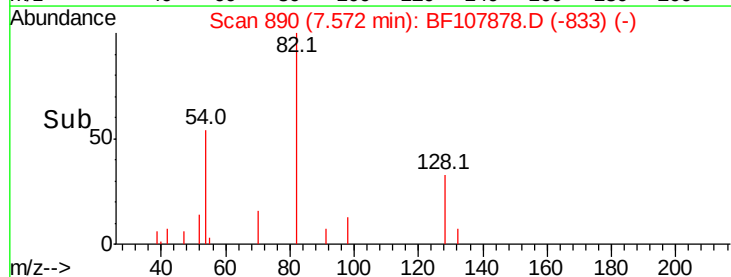


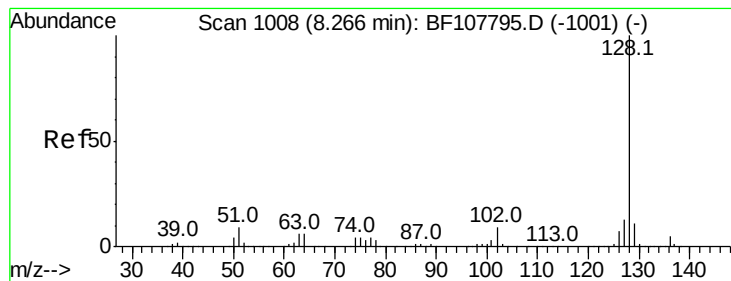
#23
Nitrobenzene-d5
Concen: 2.402 ng
RT: 7.57 min Scan# 890
Delta R.T. 0.04 min
Lab File: BF107878.D
Acq: 1 Aug 2018 4:36

Tgt Ion: 82	Resp:	21888
Ion Ratio	Lower	Upper
82	100	
128	33.3	36.1 54.1#
54	60.8	41.4 62.2



Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1





#31

Naphthalene

Concen: 13.846 ng

RT: 8.27 min Scan# 1008

Delta R.T. 0.00 min

Lab File: BF107878.D

Acq: 1 Aug 2018 4:36

Instrument :

BNA_F

ClientSampleId :

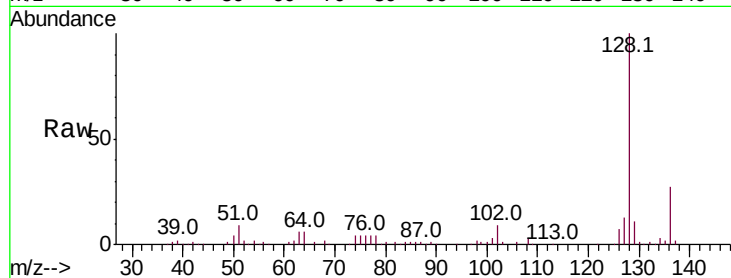
Tot Ion:128 Resp: 337931

Ion Ratio Lower Upper

128 100

129 10.9 8.8 13.2

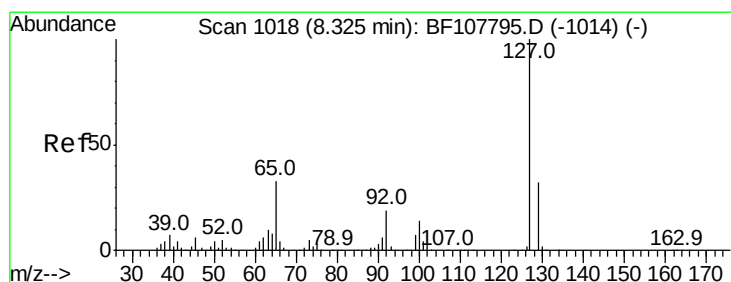
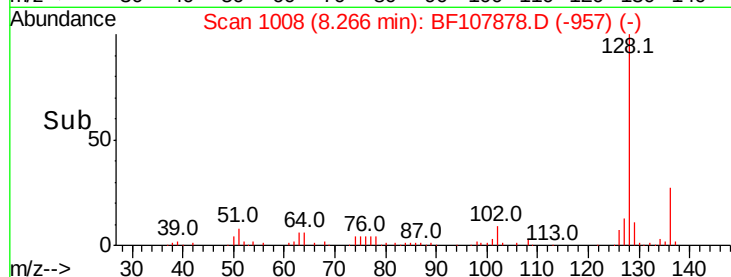
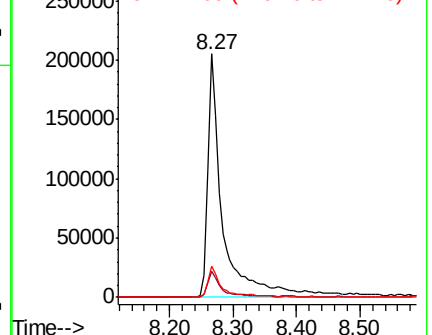
127 12.6 10.9 16.3



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



#33

4-Chloroaniline

Concen: 3.873 ng

RT: 8.27 min Scan# 1008

Delta R.T. -0.06 min

Lab File: BF107878.D

Acq: 1 Aug 2018 4:36

Tgt Ion:127 Resp: 40379

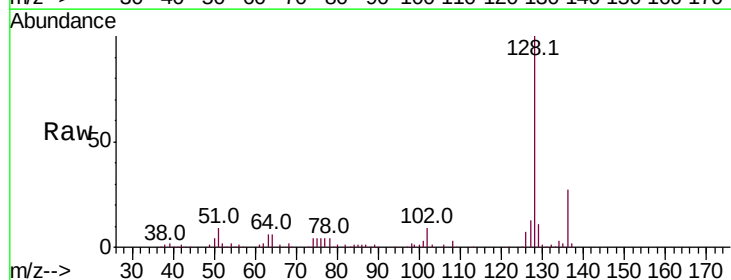
Ion Ratio Lower Upper

127 100

129 87.1 25.9 38.9#

65 0.0 25.0 37.4#

92 0.0 15.2 22.8#

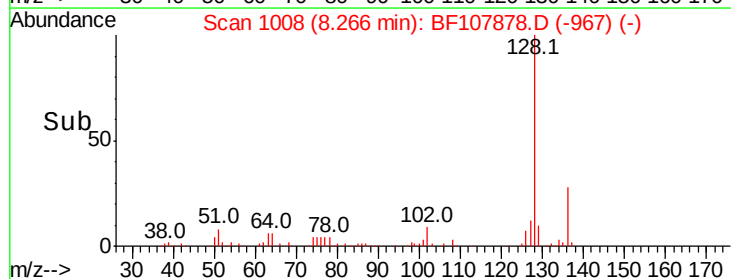
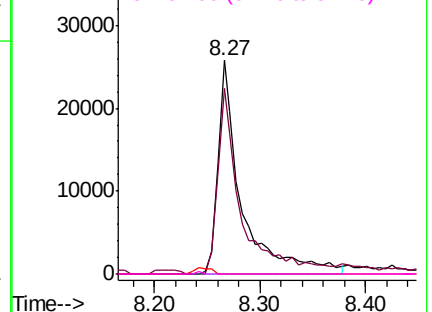


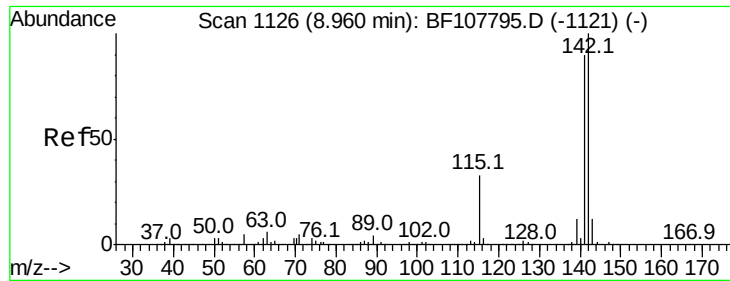
Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 65.00 (64.70 to 65.70): BF1

Ion 92.00 (91.70 to 92.70): BF1

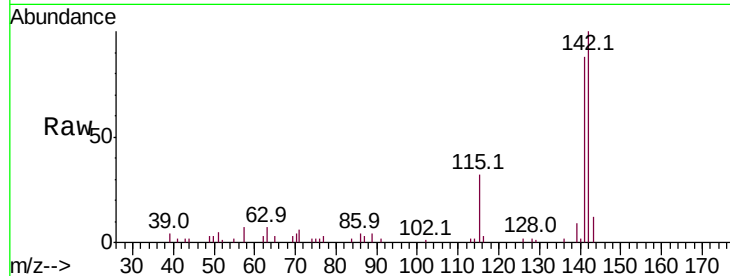




#37
2-Methylnaphthalene
Concen: 3.843 ng
RT: 8.96 min Scan# 1126
Delta R.T. 0.00 min
Lab File: BF107878.D
Acq: 1 Aug 2018 4:36

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
142	100		
141	87.7	70.8	106.2
115	31.8	26.1	39.1

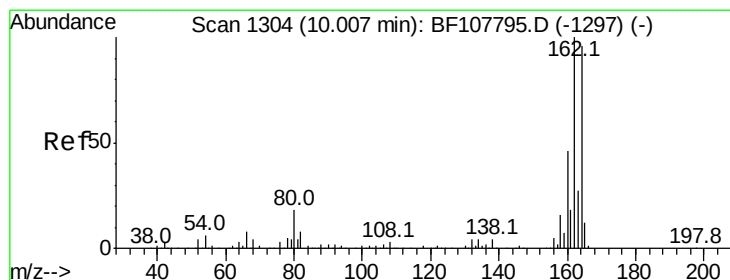
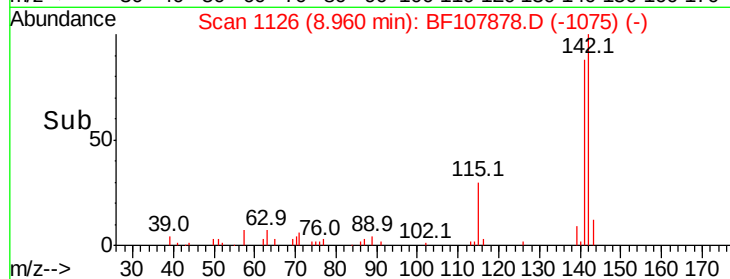
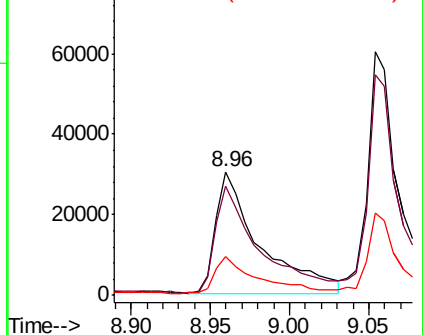


Abundance

Ion 142.00 (141.70 to 142.70): E

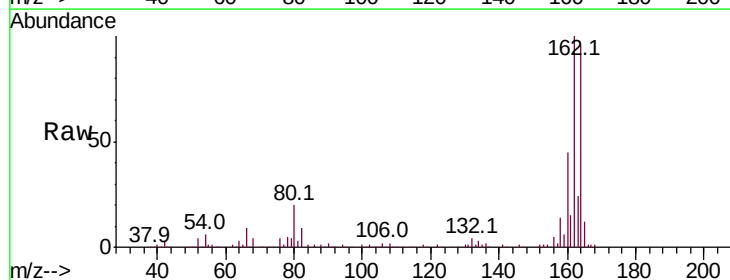
Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.00 min Scan# 1303
Delta R.T. -0.01 min
Lab File: BF107878.D
Acq: 1 Aug 2018 4:36

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.4	86.1	129.1
160	47.4	38.3	57.5

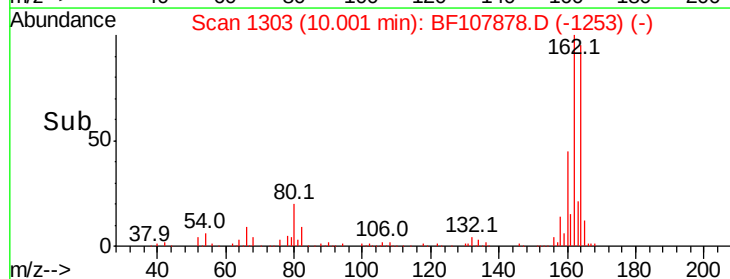
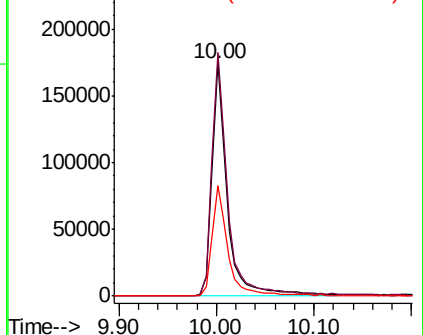


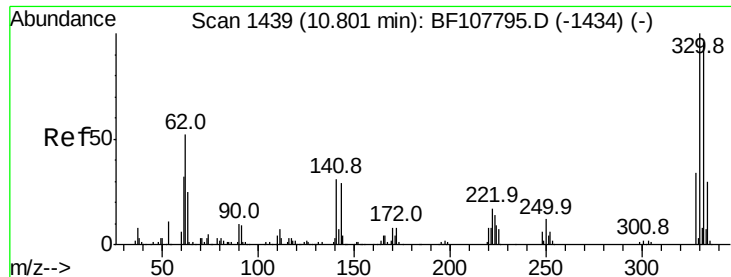
Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

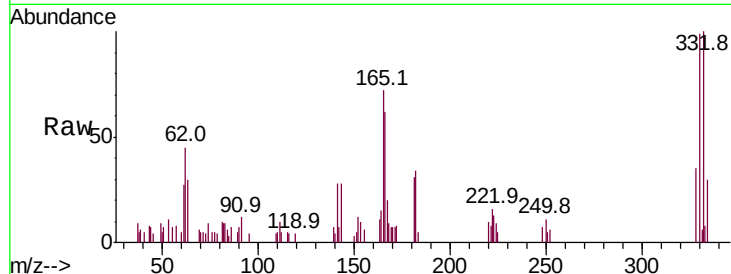




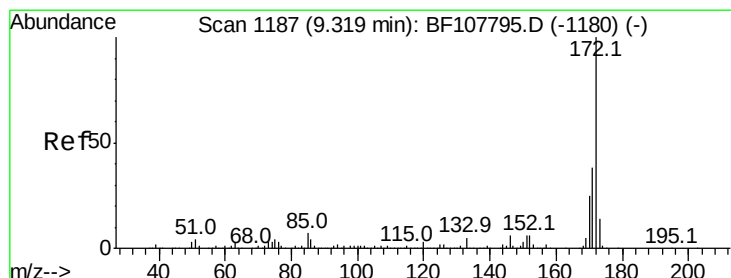
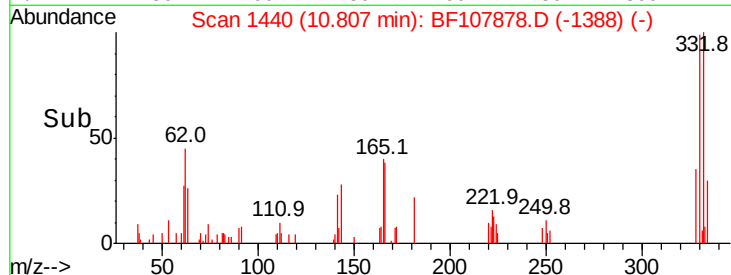
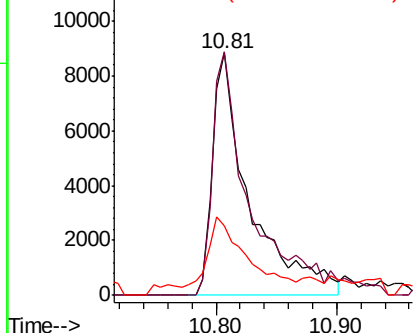
#41
 2,4,6-Tribromophenol
 Concen: 7.196 ng
 RT: 10.81 min Scan# 1440
 Delta R.T. 0.01 min
 Lab File: BF107878.D
 Acq: 1 Aug 2018 4:36

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:330 Resp: 18775
 Ion Ratio Lower Upper
 330 100
 332 106.0 77.0 115.6
 141 27.6 29.9 44.9#

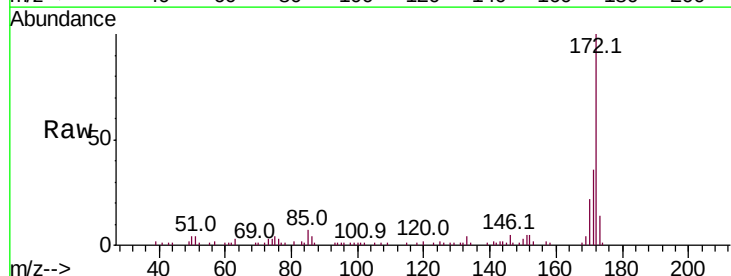


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

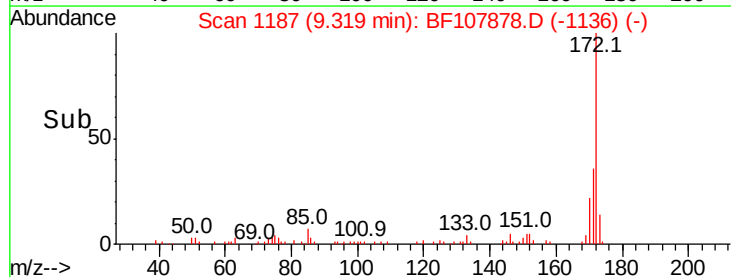
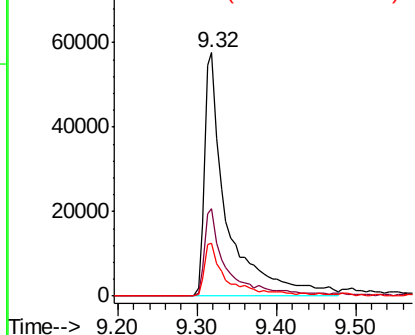


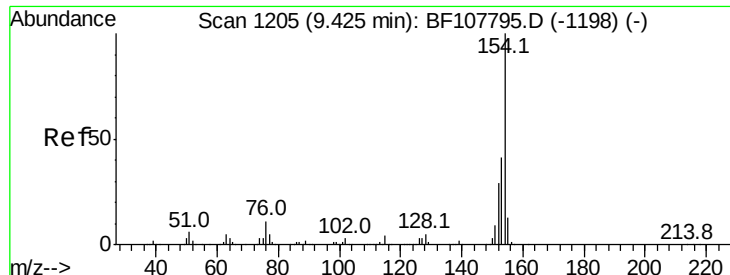
#44
 2-Fluorobiphenyl
 Concen: 8.345 ng
 RT: 9.32 min Scan# 1187
 Delta R.T. 0.00 min
 Lab File: BF107878.D
 Acq: 1 Aug 2018 4:36

Tgt Ion:172 Resp: 114978
 Ion Ratio Lower Upper
 172 100
 171 35.9 29.7 44.5
 170 21.5 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





#45

1,1'-Biphenyl

Concen: 3.214 ng

RT: 9.42 min Scan# 1205

Delta R.T. 0.00 min

Lab File: BF107878.D

Acq: 1 Aug 2018 4:36

Instrument :

BNA_F

ClientSampled :

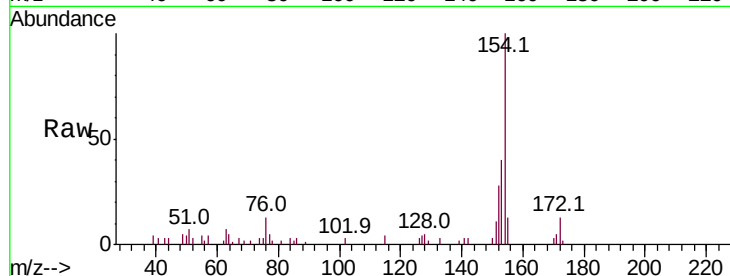
Tot Ion:154 Resp: 56155

Ion Ratio Lower Upper

154 100

153 40.1 21.3 61.3

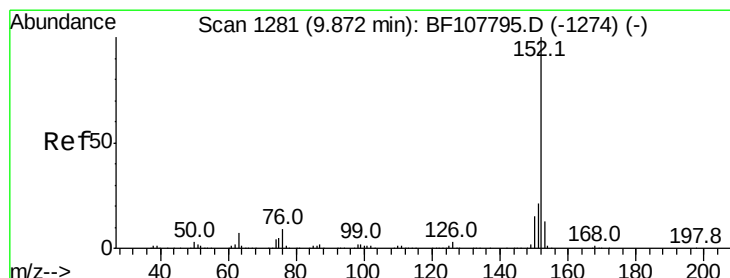
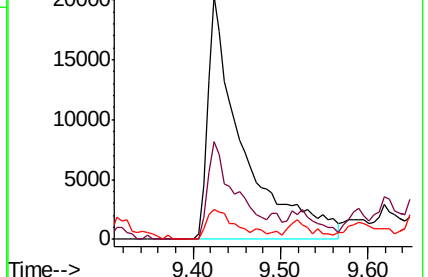
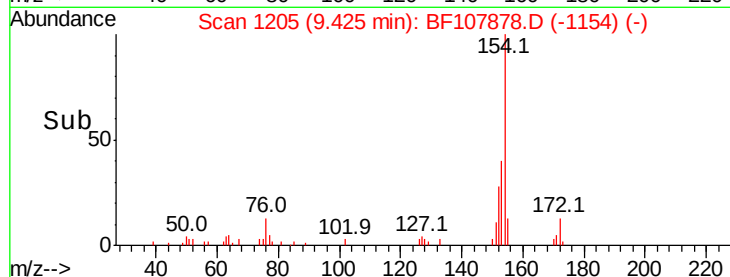
76 12.5 0.0 34.0



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF1



#48

Acenaphthylene

Concen: 2.720 ng

RT: 9.87 min Scan# 1280

Delta R.T. -0.01 min

Lab File: BF107878.D

Acq: 1 Aug 2018 4:36

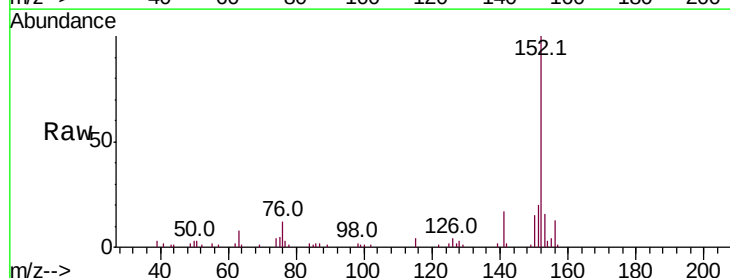
Tgt Ion:152 Resp: 55563

Ion Ratio Lower Upper

152 100

151 20.5 16.3 24.5

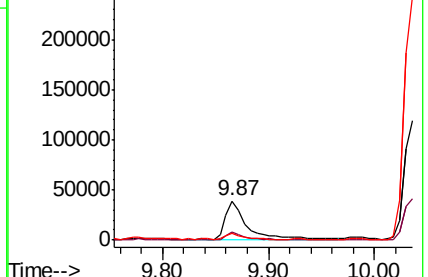
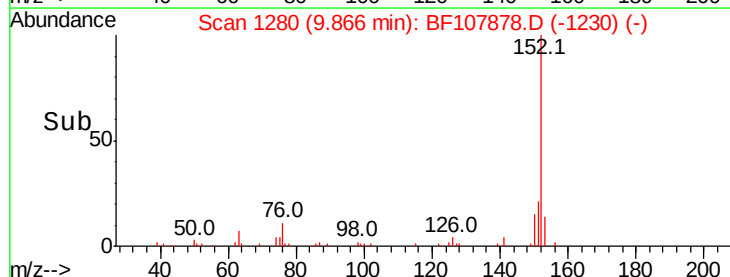
153 16.4 10.7 16.1#

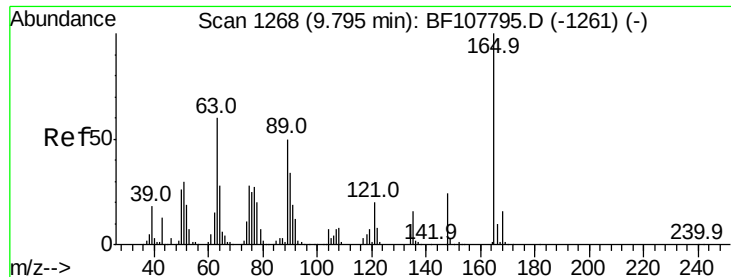


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

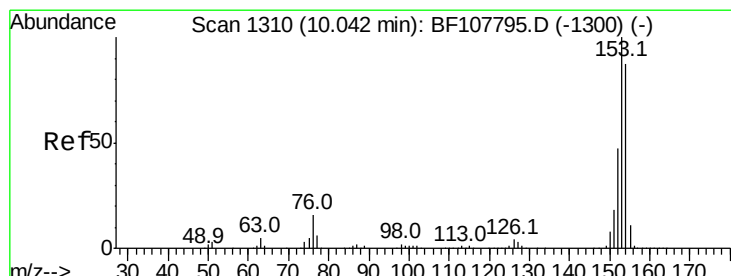
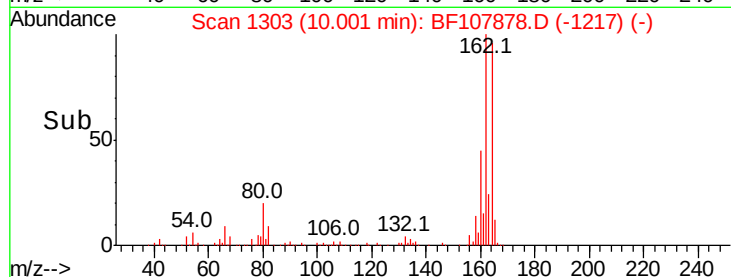
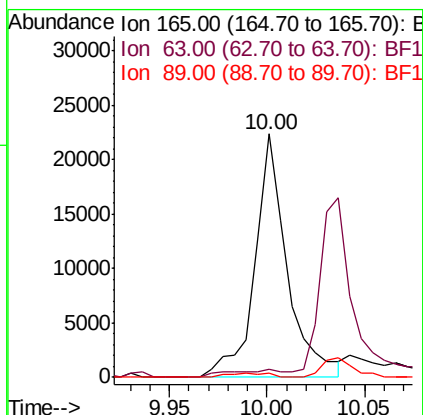
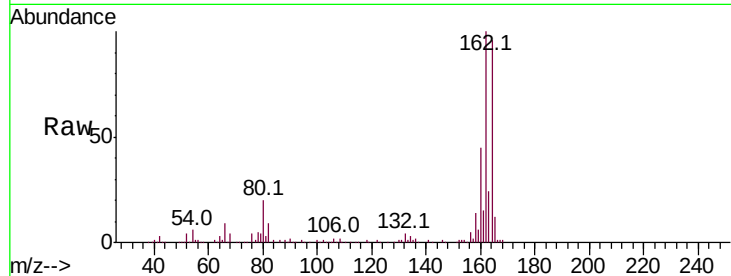




#50
2,6-Dinitrotoluene
Concen: 8.211 ng
RT: 10.00 min Scan# 1303
Delta R.T. 0.21 min
Lab File: BF107878.D
Acq: 1 Aug 2018 4:36

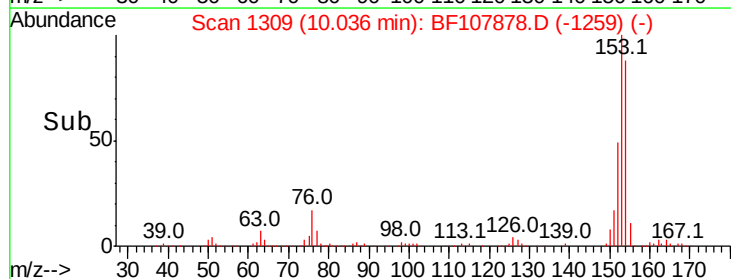
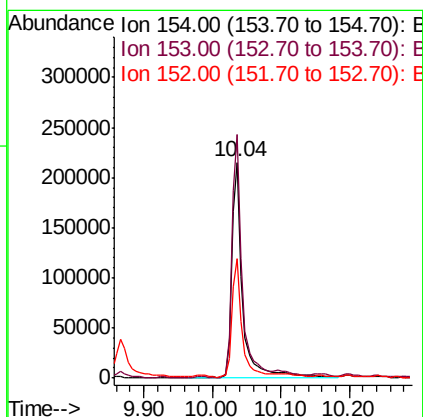
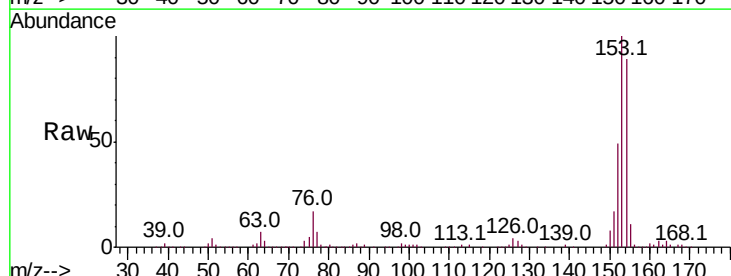
Instrument :
BNA_F
ClientSampleId :

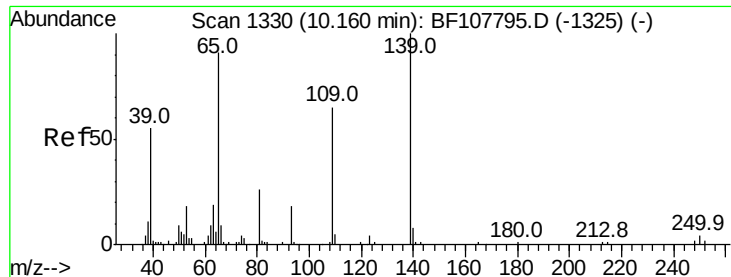
Tot Ion:165 Resp: 25732
Ion Ratio Lower Upper
165 100
63 3.2 44.7 67.1#
89 1.5 44.0 66.0#



#51
Acenaphthene
Concen: 20.662 ng
RT: 10.04 min Scan# 1309
Delta R.T. -0.01 min
Lab File: BF107878.D
Acq: 1 Aug 2018 4:36

Tgt Ion:154 Resp: 245189
Ion Ratio Lower Upper
154 100
153 112.9 91.2 136.8
152 55.2 43.8 65.8

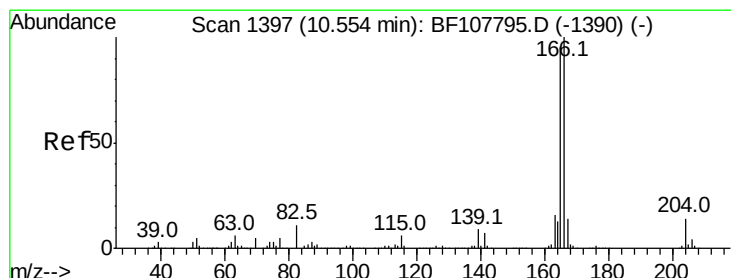
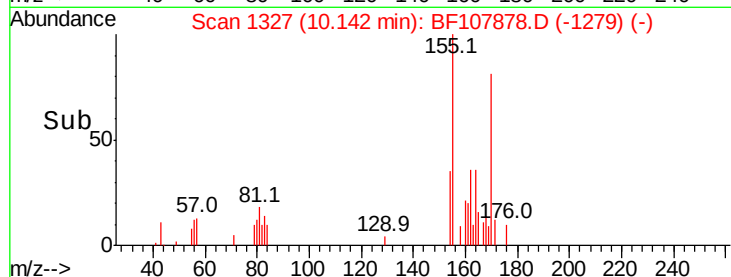
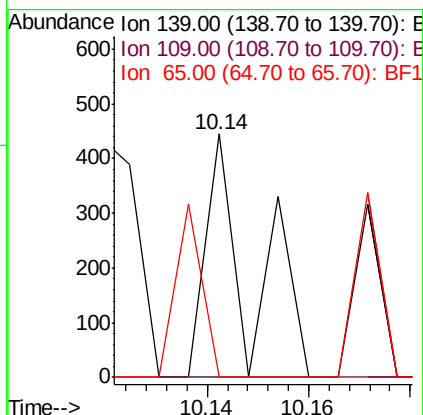
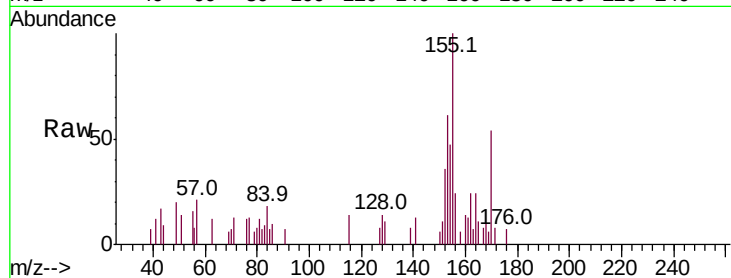




#55
4-Nitrophenol
Concen: 9.443 ng
RT: 10.14 min Scan# 1327
Delta R.T. -0.02 min
Lab File: BF107878.D
Acq: 1 Aug 2018 4:36

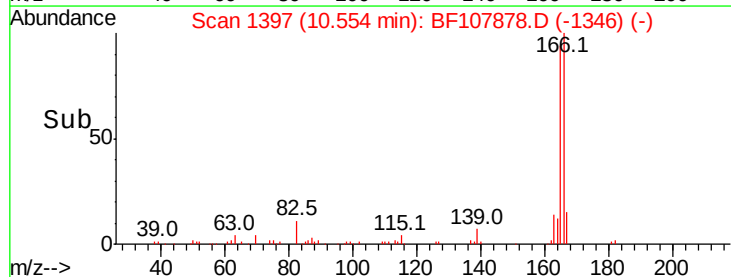
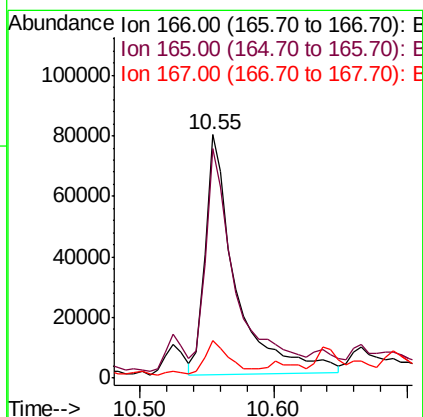
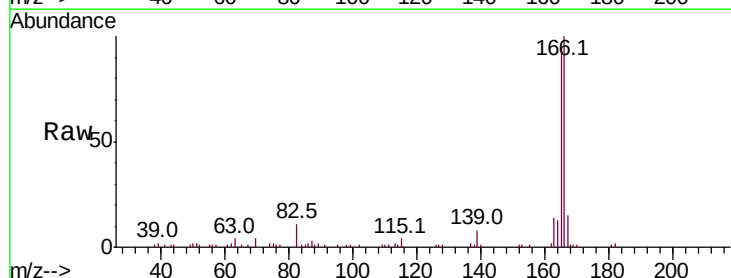
Instrument :
BNA_F
ClientSampled :

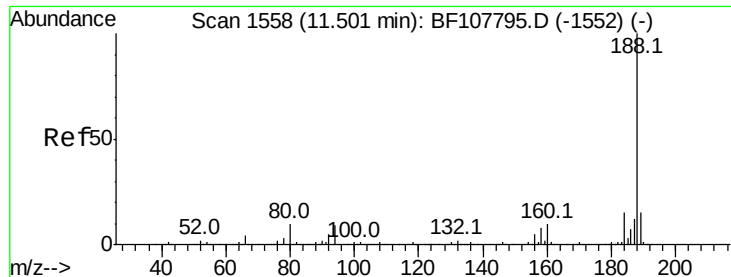
Tot Ion:139 Resp: 274
Ion Ratio Lower Upper
139 100
109 0.0 48.4 88.4#
65 0.0 72.6 112.6#



#57
Fluorene
Concen: 8.903 ng
RT: 10.55 min Scan# 1397
Delta R.T. 0.00 min
Lab File: BF107878.D
Acq: 1 Aug 2018 4:36

Tgt Ion:166 Resp: 126898
Ion Ratio Lower Upper
166 100
165 94.2 79.8 119.8
167 15.5 10.6 16.0

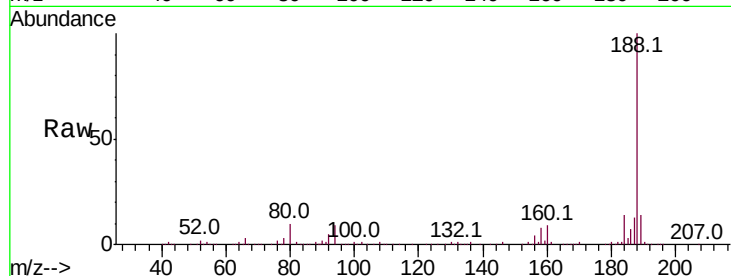




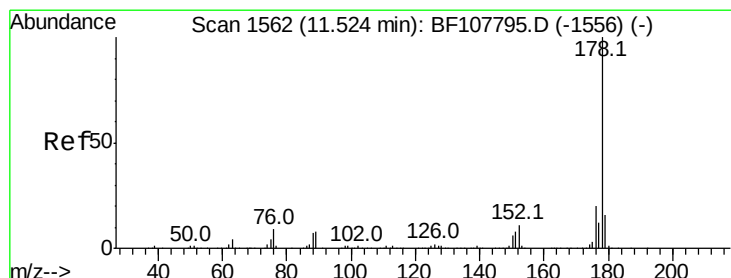
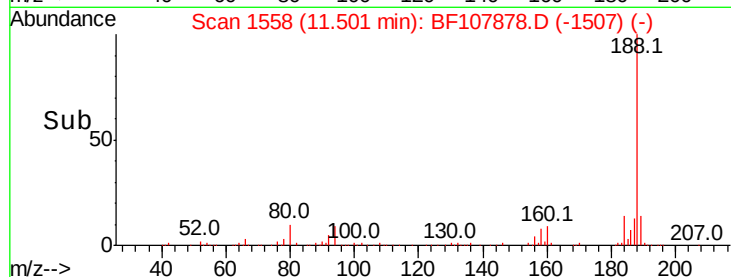
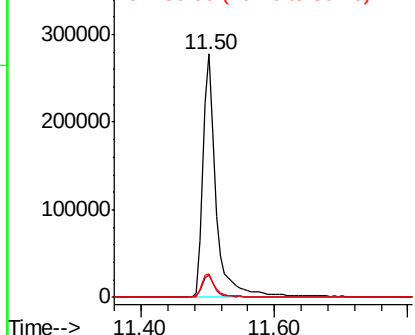
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.50 min Scan# 1558
Delta R.T. 0.00 min
Lab File: BF107878.D
Acq: 1 Aug 2018 4:36

Instrument :
BNA_F
ClientSampleId :

Tot Ion:188 Resp: 377028
Ion Ratio Lower Upper
188 100
94 9.3 8.5 12.7
80 9.7 9.2 13.8

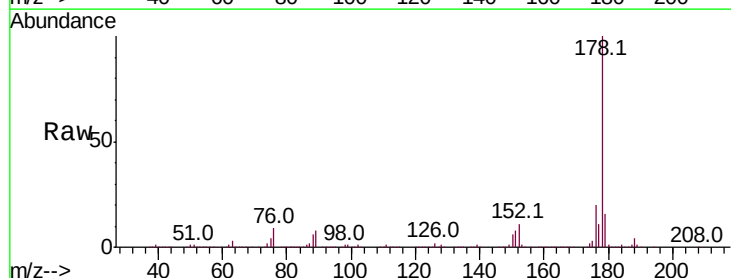


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1

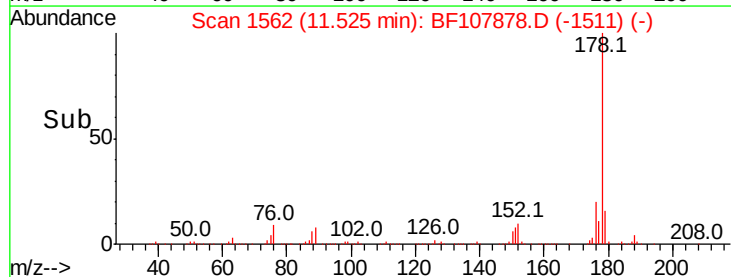
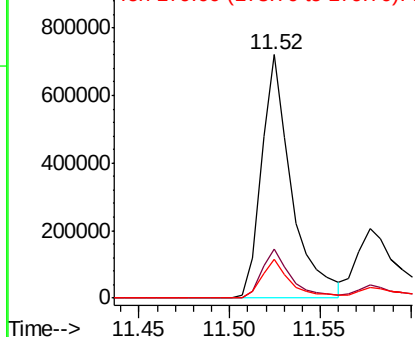


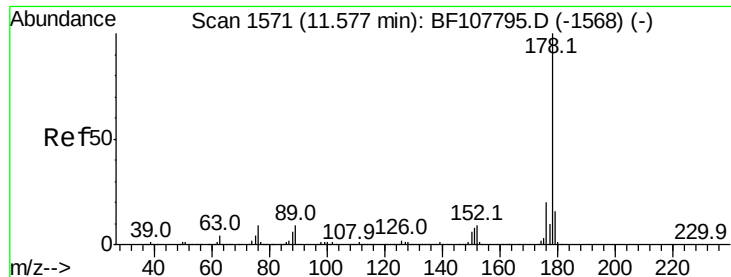
#70
Phenanthrene
Concen: 46.205 ng
RT: 11.52 min Scan# 1562
Delta R.T. 0.00 min
Lab File: BF107878.D
Acq: 1 Aug 2018 4:36

Tgt Ion:178 Resp: 827176
Ion Ratio Lower Upper
178 100
176 19.9 15.8 23.8
179 15.9 13.0 19.6



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

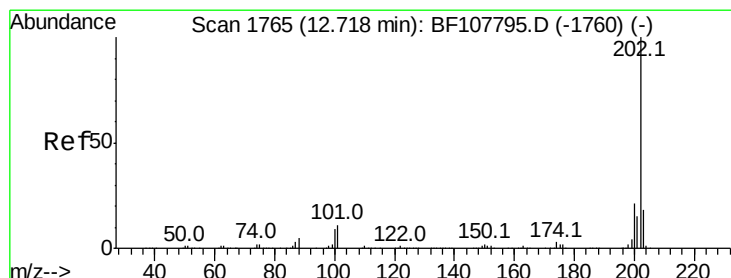
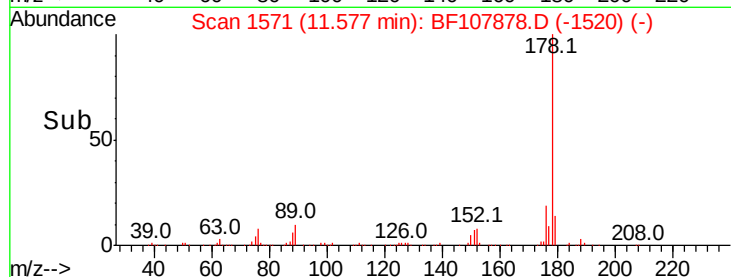
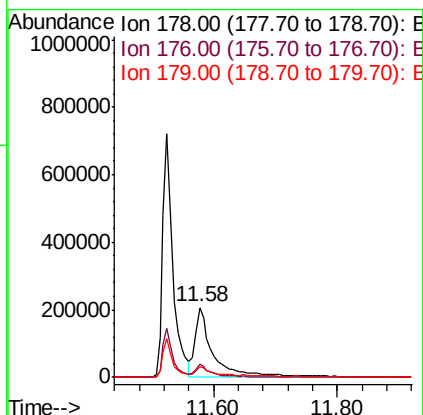
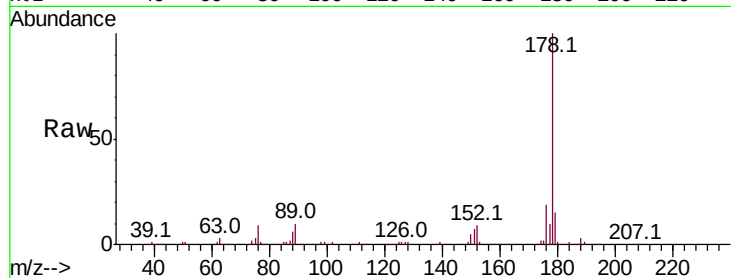




#71
 Anthracene
 Concen: 19.668 ng
 RT: 11.58 min Scan# 1571
 Delta R.T. 0.00 min
 Lab File: BF107878.D
 Acq: 1 Aug 2018 4:36

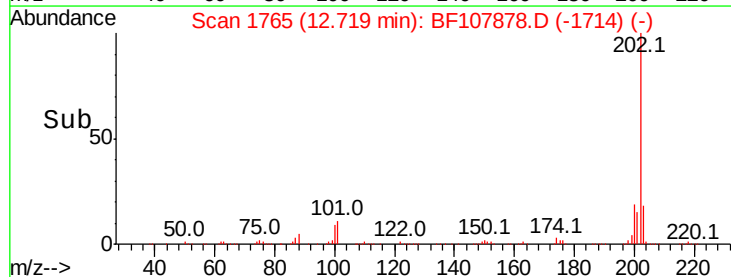
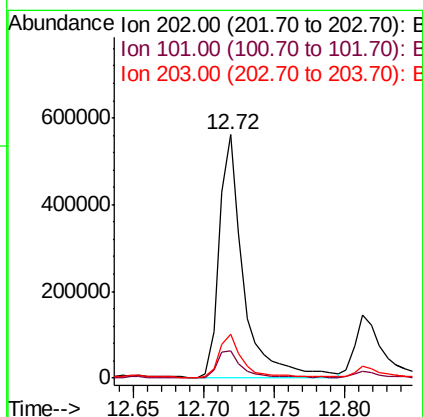
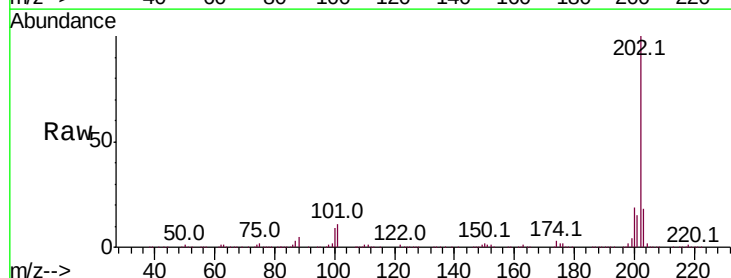
Instrument :
 BNA_F
 ClientSampled :

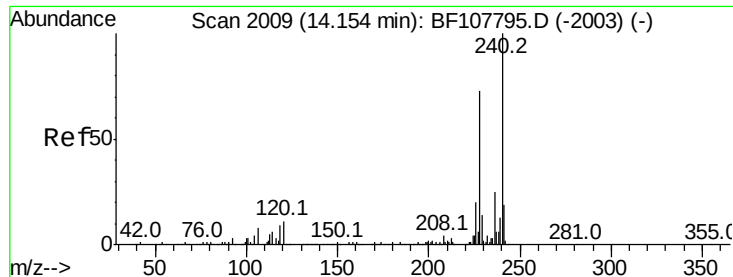
Tot Ion:178 Resp: 406137
 Ion Ratio Lower Upper
 178 100
 176 18.6 15.4 23.2
 179 14.8 12.6 19.0



#74
 Fluoranthene
 Concen: 31.373 ng
 RT: 12.72 min Scan# 1765
 Delta R.T. 0.00 min
 Lab File: BF107878.D
 Acq: 1 Aug 2018 4:36

Tgt Ion:202 Resp: 659834
 Ion Ratio Lower Upper
 202 100
 101 11.3 0.0 34.1
 203 17.9 0.0 38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.15 min Scan# 2009

Delta R.T. 0.00 min

Lab File: BF107878.D

Acq: 1 Aug 2018 4:36

Instrument :

BNA_F

ClientSampleId :

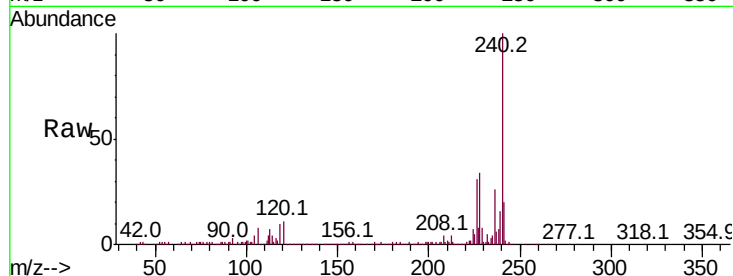
Tot Ion:240 Resp: 352148

Ion Ratio Lower Upper

240 100

120 10.8 9.5 14.3

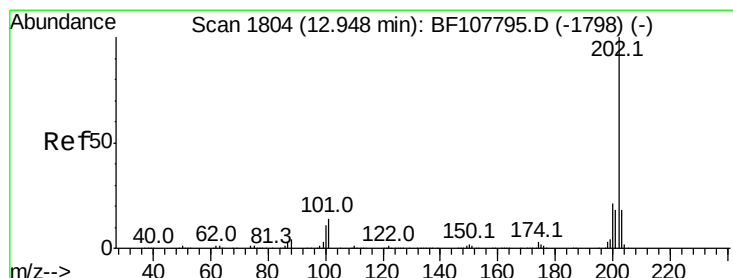
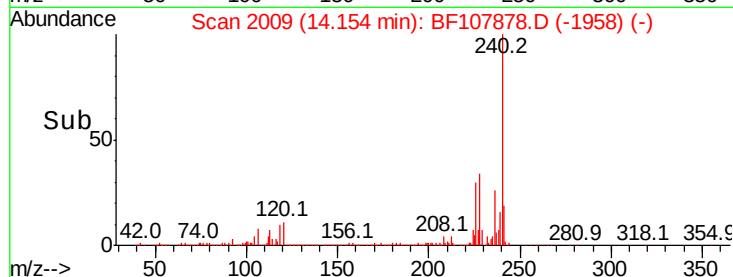
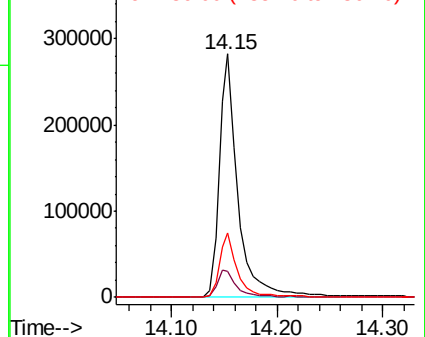
236 26.3 20.7 31.1



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: 36.051 ng

RT: 12.95 min Scan# 1804

Delta R.T. 0.00 min

Lab File: BF107878.D

Acq: 1 Aug 2018 4:36

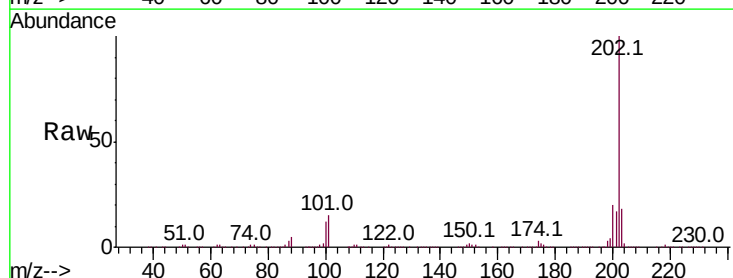
Tgt Ion:202 Resp: 914177

Ion Ratio Lower Upper

202 100

200 19.8 17.4 26.2

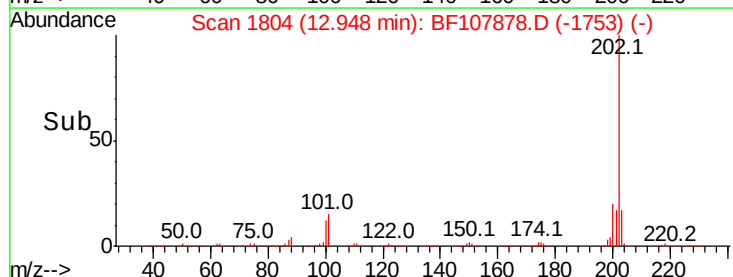
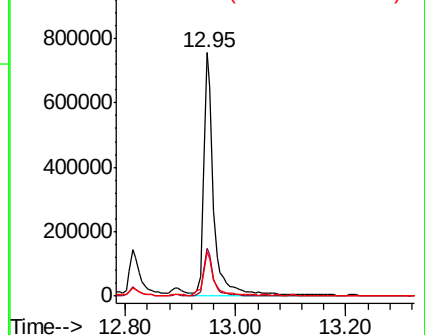
203 18.0 14.3 21.5

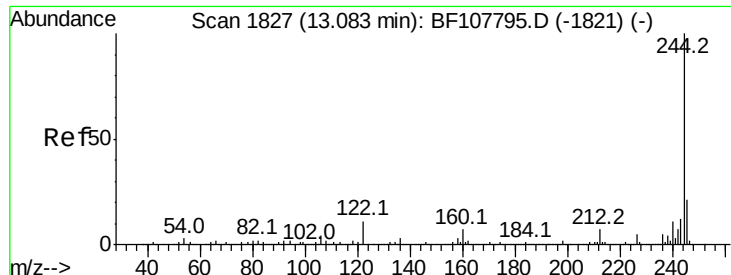


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

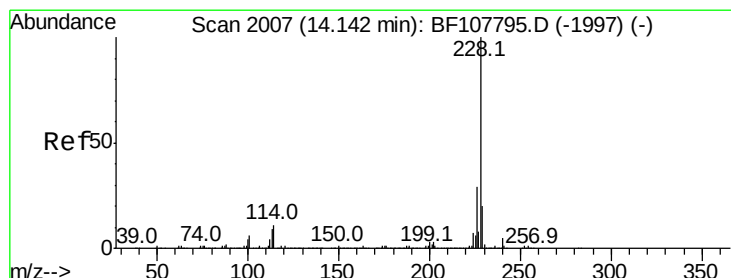
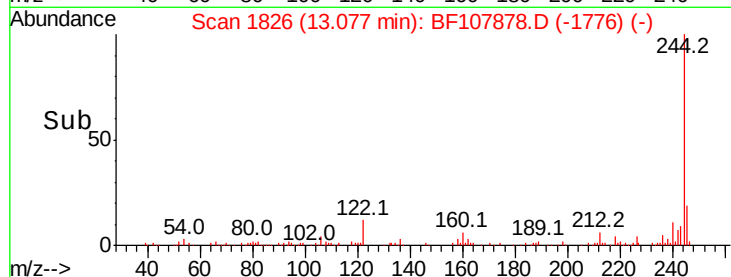
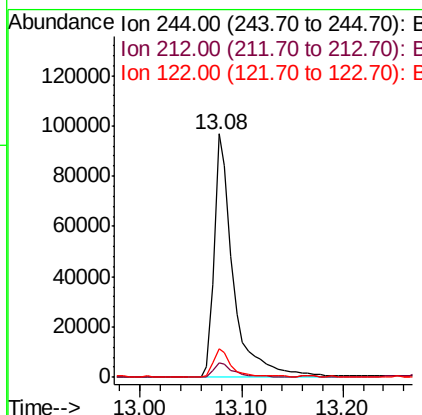
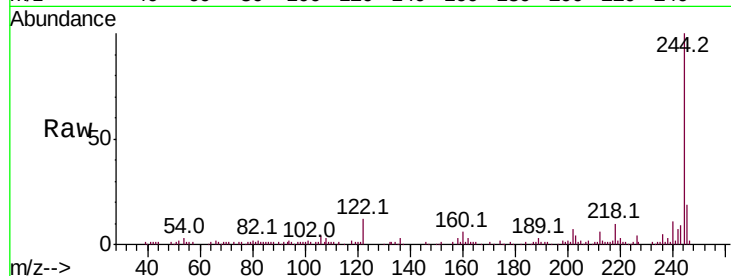




#78
 Terphenyl-d14
 Concen: 7.914 ng
 RT: 13.08 min Scan# 1826
 Delta R.T. -0.01 min
 Lab File: BF107878.D
 Acq: 1 Aug 2018 4:36

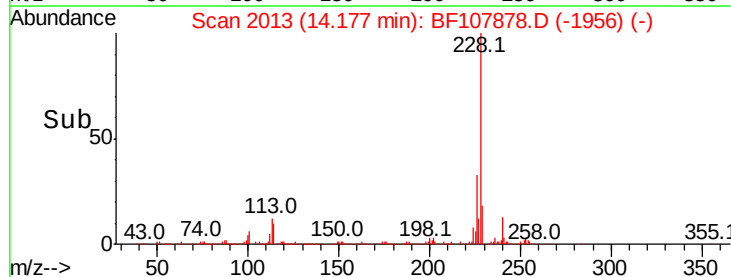
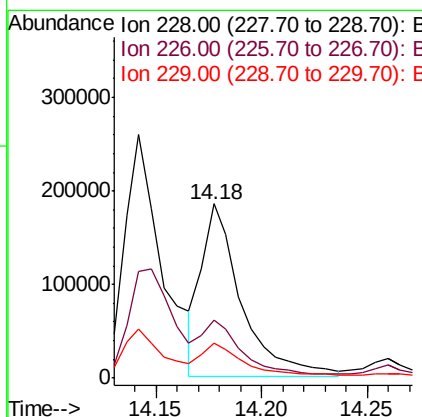
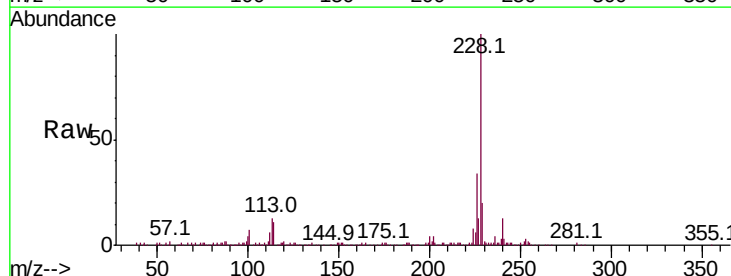
Instrument :
 BNA_F
 ClientSampleId :

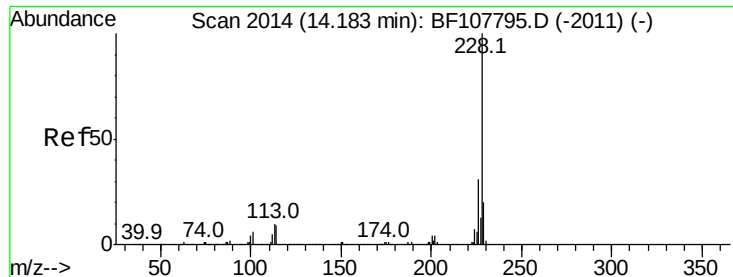
Tot Ion	Ratio	Lower	Upper
244	100		
212	5.8	5.4	8.0
122	11.8	11.0	16.4



#80
 Benzo(a)anthracene
 Concen: 12.286 ng
 RT: 14.18 min Scan# 2013
 Delta R.T. 0.04 min
 Lab File: BF107878.D
 Acq: 1 Aug 2018 4:36

Tgt Ion	Ratio	Lower	Upper
228	100		
226	33.7	22.6	33.8
229	20.0	15.8	23.6

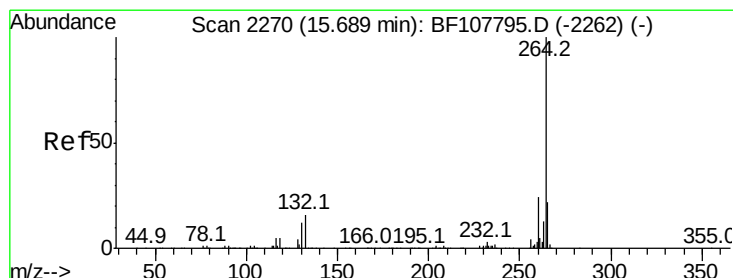
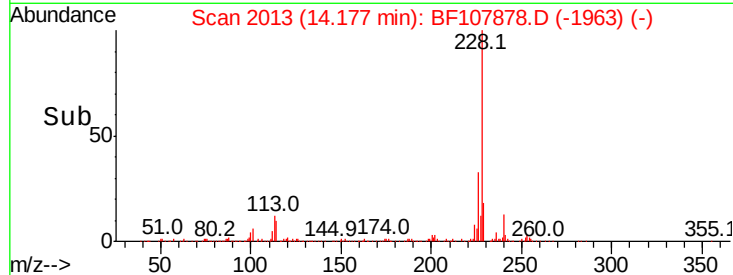
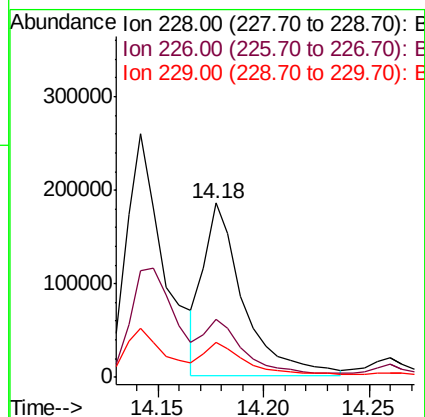
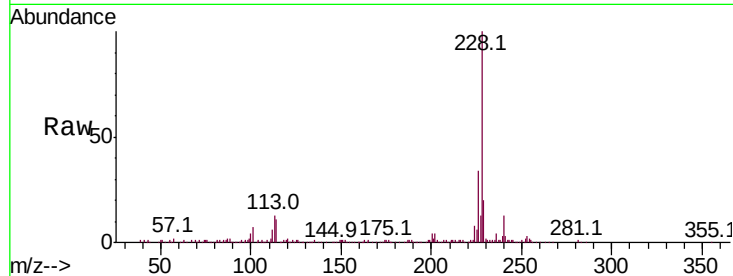




#82
Chrysene
Concen: 11.390 ng
RT: 14.18 min Scan# 2013
Delta R.T. -0.01 min
Lab File: BF107878.D
Acq: 1 Aug 2018 4:36

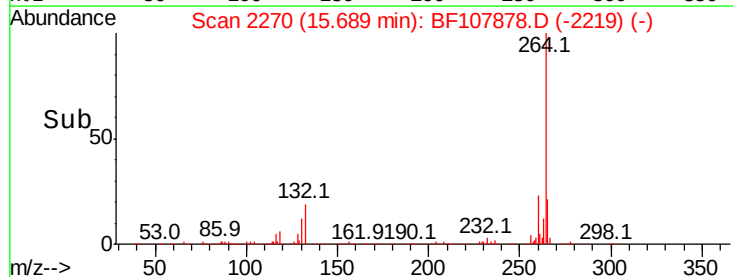
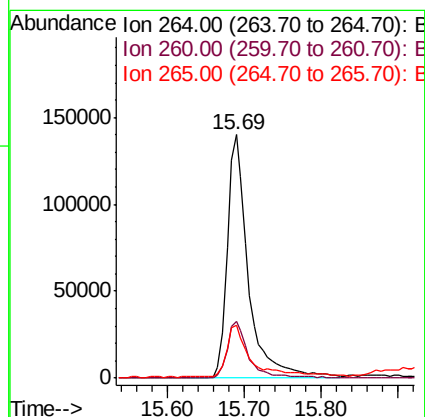
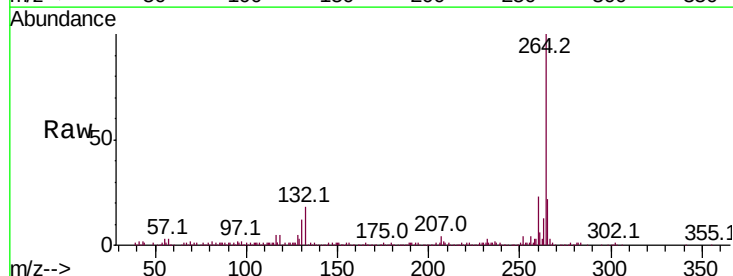
Instrument :
BNA_F
ClientSampleId :

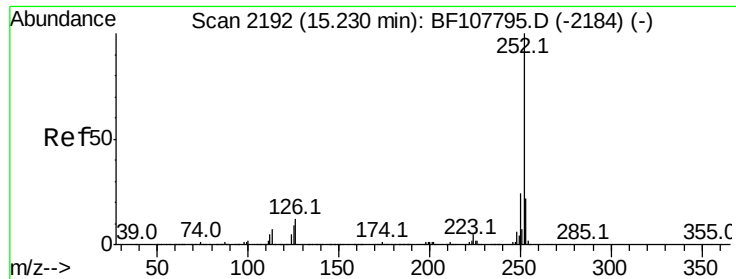
Tot Ion:228 Resp: 245072
Ion Ratio Lower Upper
228 100
226 33.7 25.0 37.6
229 20.0 16.2 24.4



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.69 min Scan# 2270
Delta R.T. 0.00 min
Lab File: BF107878.D
Acq: 1 Aug 2018 4:36

Tgt Ion:264 Resp: 267542
Ion Ratio Lower Upper
264 100
260 23.5 19.2 28.8
265 21.6 17.5 26.3





#87

Benzo(b)fluoranthene

Concen: 18.103 ng

RT: 15.24 min Scan# 2193

Delta R.T. 0.01 min

Lab File: BF107878.D

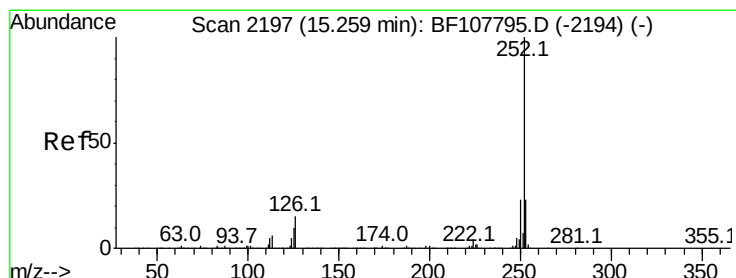
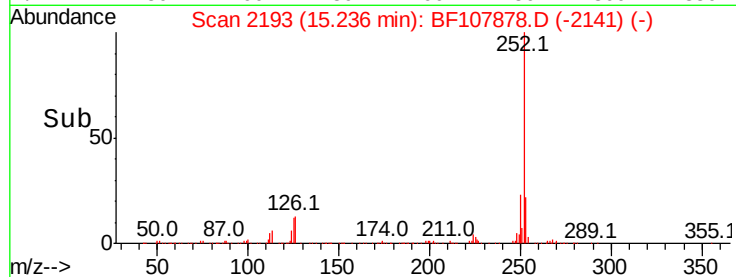
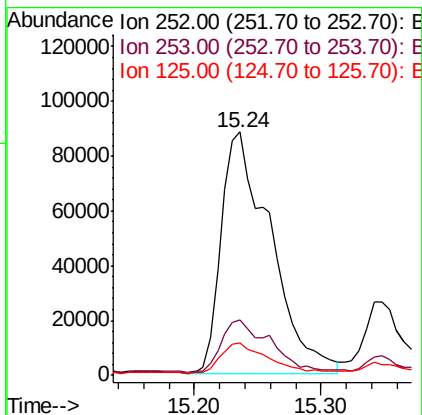
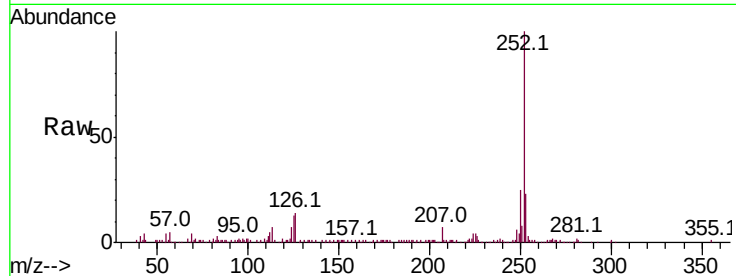
Acq: 1 Aug 2018 4:36

Instrument :

BNA_F

ClientSampled :

Tot Ion:	252	Resp:	238878
Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.0	25.6
125	13.1	9.0	13.6



#88

Benzo(k)fluoranthene

Concen: 14.745 ng

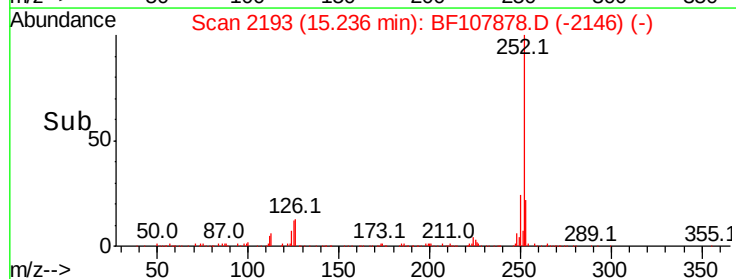
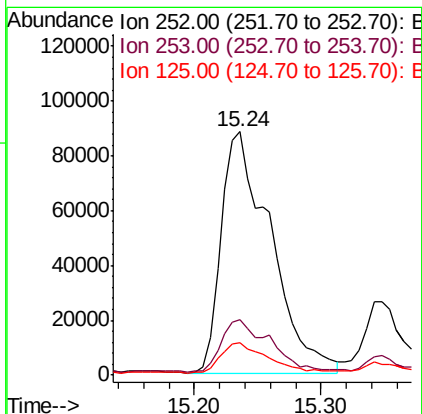
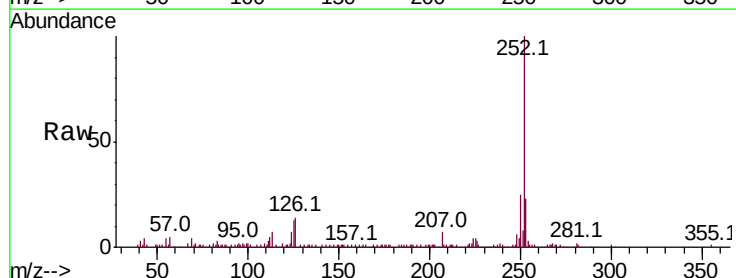
RT: 15.24 min Scan# 2193

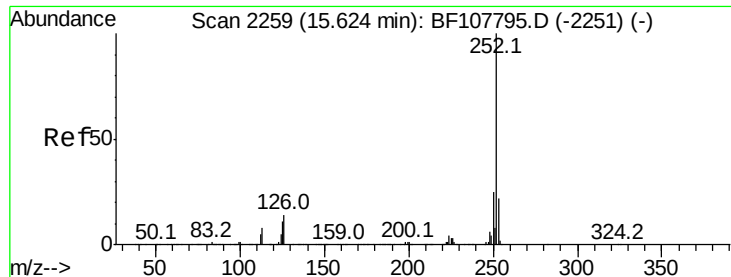
Delta R.T. -0.02 min

Lab File: BF107878.D

Acq: 1 Aug 2018 4:36

Tgt Ion:	252	Resp:	238878
Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.9	26.9
125	13.1	10.2	15.2





#89

Benzo(a)pyrene

Concen: 13.865 ng

RT: 15.62 min Scan# 2259

Delta R.T. 0.00 min

Lab File: BF107878.D

Acq: 1 Aug 2018 4:36

Instrument :

BNA_F

ClientSampled :

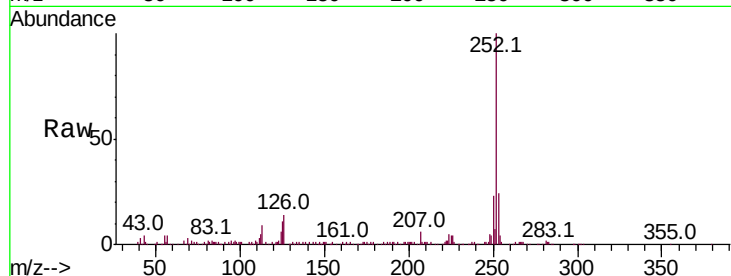
Tot Ion:252 Resp: 188873

Ion Ratio Lower Upper

252 100

253 23.5 17.1 25.7

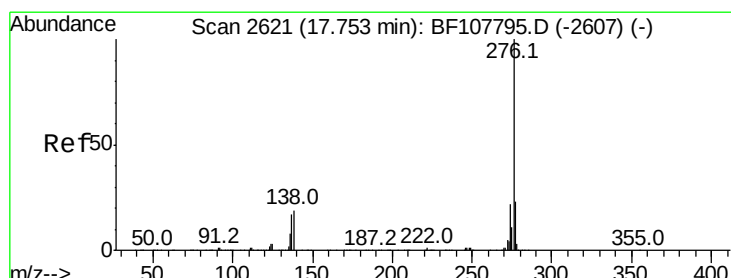
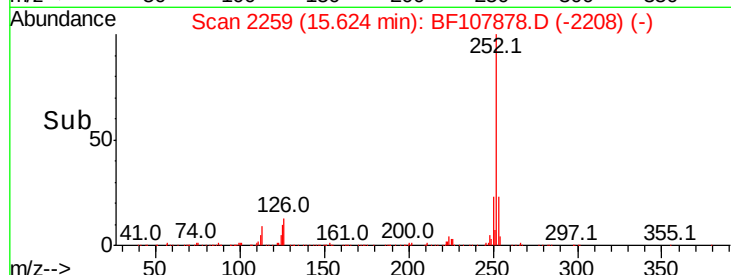
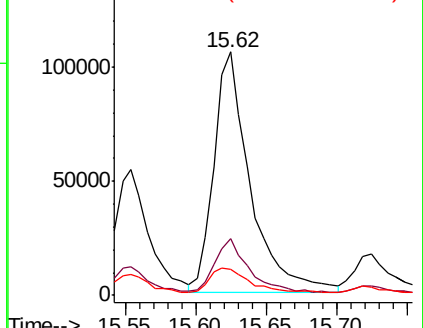
125 10.8 9.8 14.6



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Benzo(g,h,i)perylene

Concen: 6.489 ng

RT: 17.76 min Scan# 2622

Delta R.T. 0.01 min

Lab File: BF107878.D

Acq: 1 Aug 2018 4:36

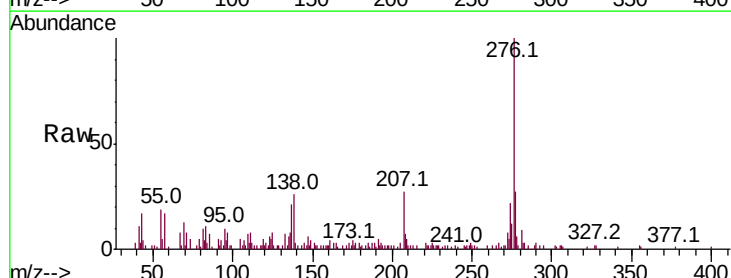
Tgt Ion:276 Resp: 74602

Ion Ratio Lower Upper

276 100

277 26.9 17.9 26.9#

138 26.2 21.8 32.8



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

