

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072518\
 Data File : BF107681.D
 Acq On : 26 Jul 2018 3:14
 Operator : JU/SJ
 Sample : J4126-09DL 20X
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jul 26 04:04:40 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF072018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 20 16:29:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	149093	20.00	ng	-0.01
21) Naphthalene-d8	8.25	136	614071	20.00	ng	-0.01
38) Acenaphthene-d10	10.01	164	240494	20.00	ng	-0.01
63) Phenanthrene-d10	11.51	188	419563	20.00	ng	0.00
75) Chrysene-d12	14.15	240	341068	20.00	ng	-0.01
86) Perylene-d12	15.69	264	284256	20.00	ng	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.61	112	14397	1.55	ng	0.00
7) Phenol-d6	6.62	99	31741	2.85	ng	0.01
23) Nitrobenzene-d5	7.54	82	21481	2.36	ng	0.00
41) 2,4,6-Tribromophenol	10.81	330	10759	3.93	ng	-0.01
44) 2-Fluorobiphenyl	9.32	172	52395	-1.00	ng	-0.02
78) Terphenyl-d14	13.08	244	46040	3.46	ng	-0.02

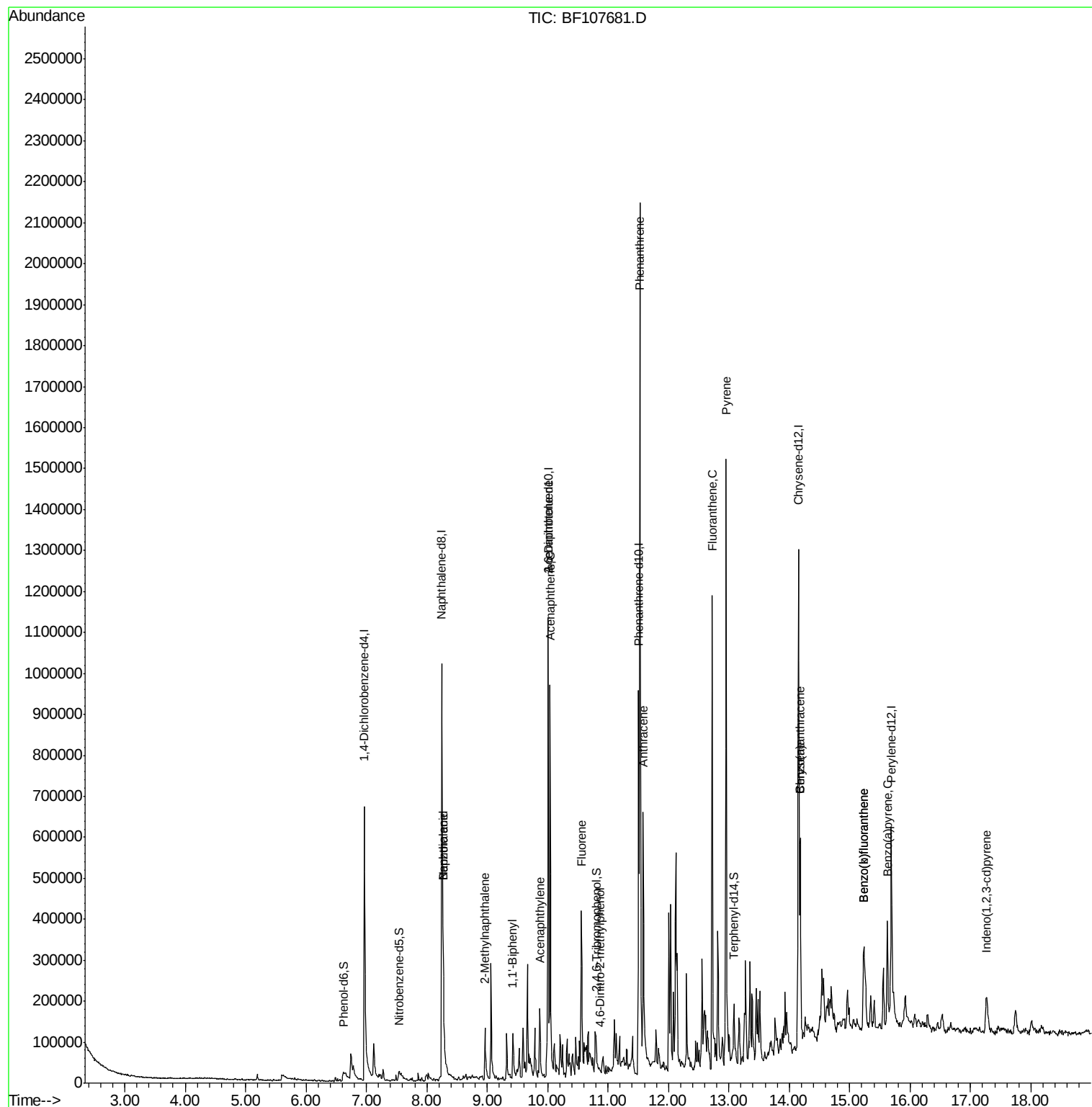
Target Compounds				Qvalue		
9) Benzaldehyde	6.52	77	132	Below Cal	#	1
31) Naphthalene	8.27	128	159610	5.911 ng		99
32) Benzoic acid	8.27	122	169	7.924 ng	#	1
37) 2-Methylnaphthalene	8.97	142	51962	2.777 ng		100
45) 1,1'-Biphenyl	9.42	154	60232	2.875 ng		98
48) Acenaphthylene	9.87	152	71545	2.974 ng		97
50) 2,6-Dinitrotoluene	10.01	165	36781	10.221 ng	#	26
51) Acenaphthene	10.04	154	198455	13.167 ng		99
57) Fluorene	10.56	166	146814	9.274 ng		96
64) 4,6-Dinitro-2-methylphenol	10.87	198	263	8.787 ng	#	70
70) Phenanthrene	11.53	178	875874	42.840 ng		100
71) Anthracene	11.58	178	354252	17.209 ng		99
73) Di-n-butylphthalate	12.04	149	638	Below Cal	#	1
74) Fluoranthene	12.72	202	526094	23.979 ng		96
77) Pyrene	12.95	202	678165	29.069 ng		98
80) Benzo(a)anthracene	14.18	228	185591	9.285 ng		96
81) 3,3'-Dichlorobenzidine	14.10	252	136	Below Cal	#	27
82) Chrysene	14.18	228	185591	9.666 ng		98
85) Indeno(1,2,3-cd)pyrene	17.26	276	51684	3.176 ng	#	91
87) Benzo(b)fluoranthene	15.24	252	193099	12.412 ng		97
88) Benzo(k)fluoranthene	15.24	252	193099	12.669 ng		100
89) Benzo(a)pyrene	15.62	252	153620	10.795 ng		98

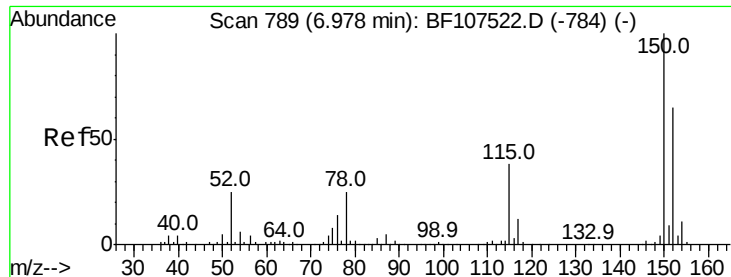
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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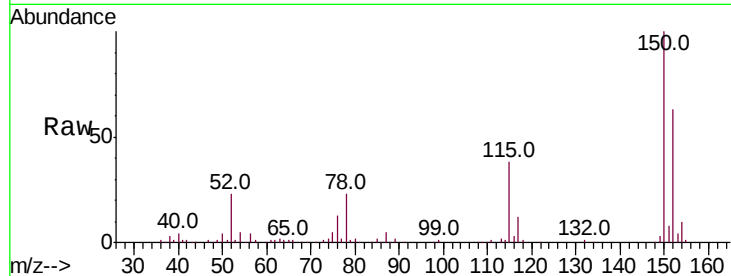


#1

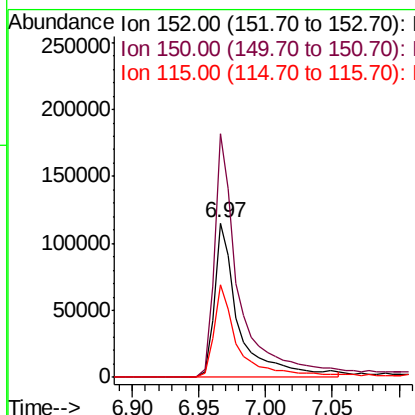
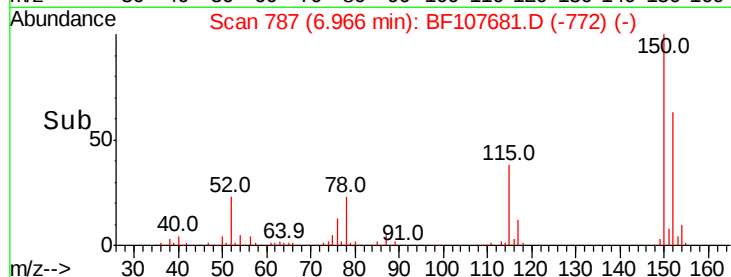
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.97 min Scan# 787
 Delta R.T. -0.01 min
 Lab File: BF107681.D
 Acq: 26 Jul 2018 3:14

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:152 Resp: 149093
 Ion Ratio Lower Upper
 152 100
 150 157.8 124.6 186.8
 115 59.6 50.1 75.1



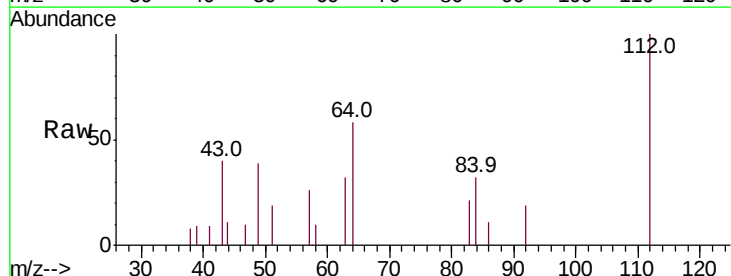
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



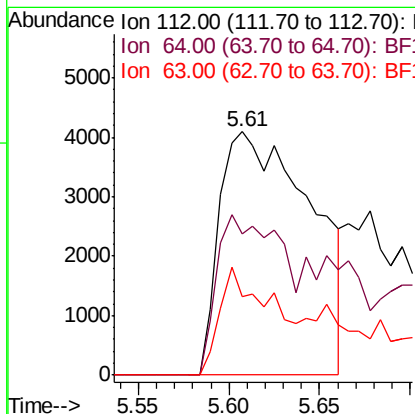
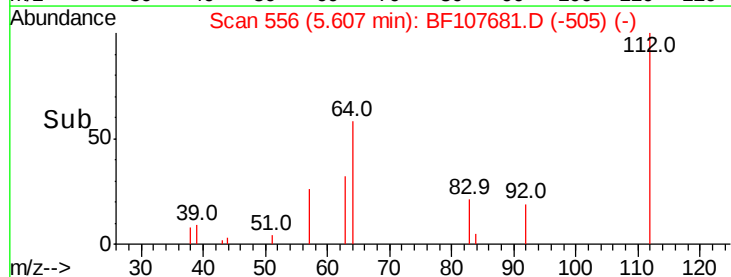
#5

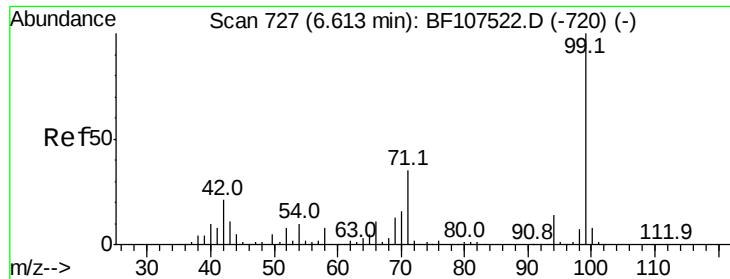
2-Fluorophenol
 Concen: 1.553 ng
 RT: 5.61 min Scan# 556
 Delta R.T. 0.00 min
 Lab File: BF107681.D
 Acq: 26 Jul 2018 3:14

Tgt Ion:112 Resp: 14397
 Ion Ratio Lower Upper
 112 100
 64 58.0 47.9 71.9
 63 32.0 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: 2.851 ng

RT: 6.62 min Scan# 729

Delta R.T. 0.01 min

Lab File: BF107681.D

Acq: 26 Jul 2018 3:14

Instrument :

BNA_F

ClientSampled :

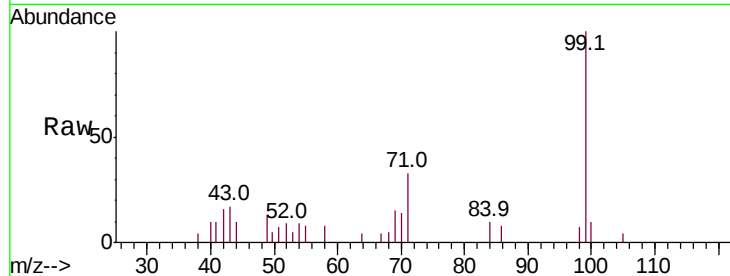
Tot Ion: 99 Resp: 31741

Ion Ratio Lower Upper

99 100

42 16.4 14.5 21.7

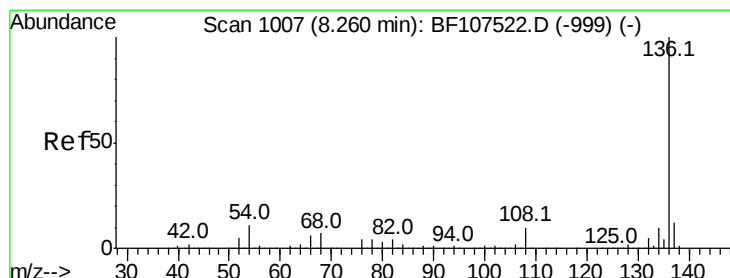
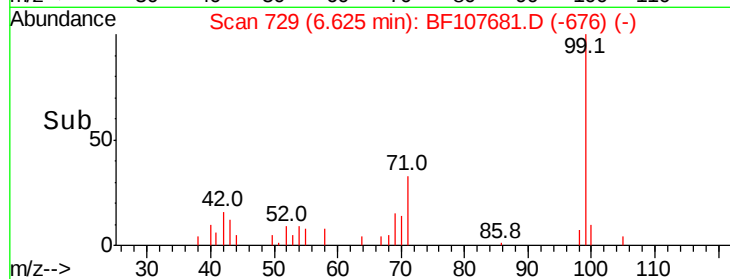
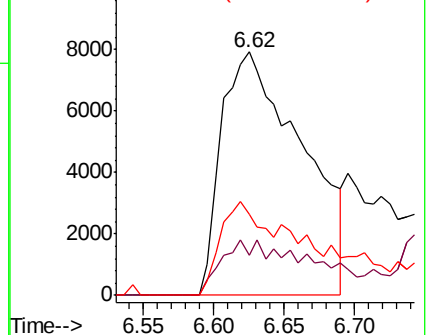
71 33.2 25.4 38.0



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: 8.25 min Scan# 1005

Delta R.T. -0.01 min

Lab File: BF107681.D

Acq: 26 Jul 2018 3:14

Tgt Ion: 136 Resp: 614071

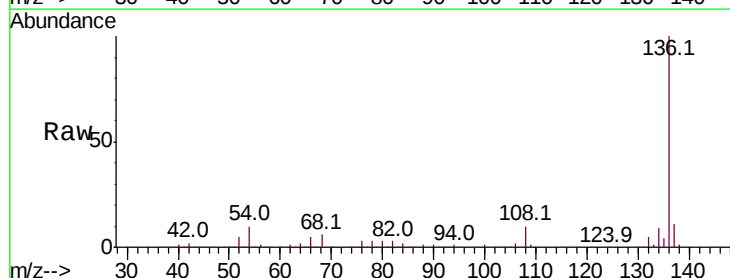
Ion Ratio Lower Upper

136 100

137 10.9 8.9 13.3

54 9.6 6.6 9.8

68 5.6 5.0 7.4

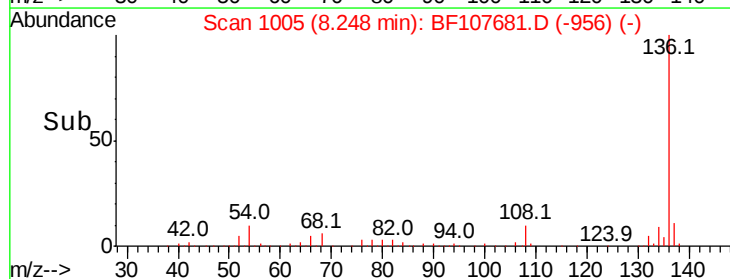
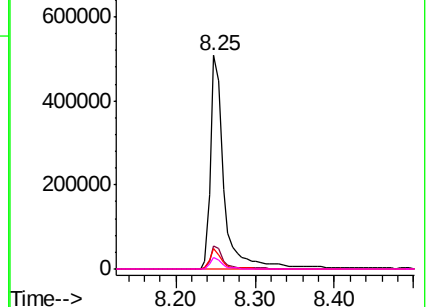


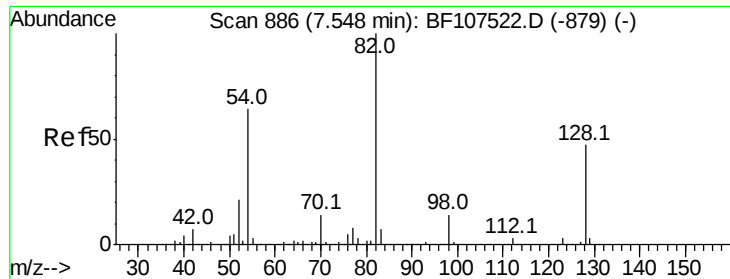
Abundance Ion 136.00 (135.70 to 136.70): E

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

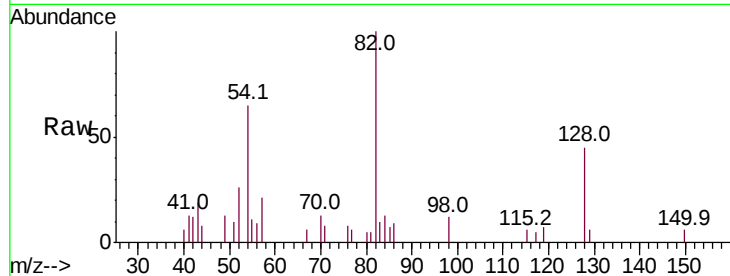




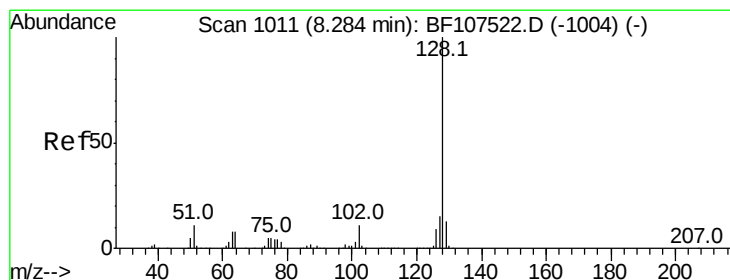
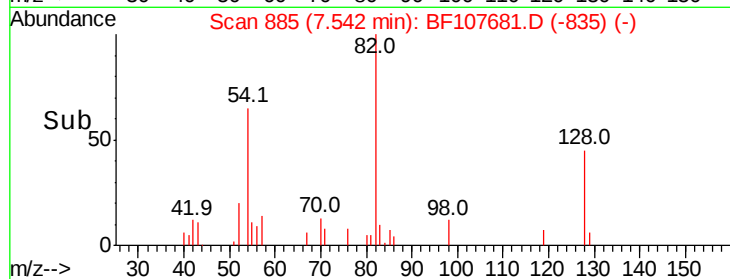
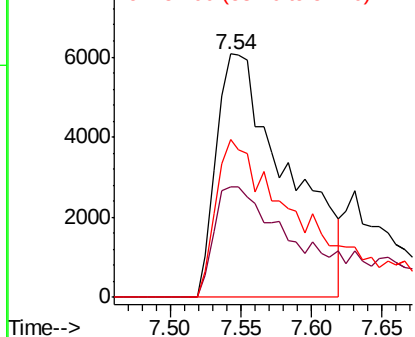
#23
Nitrobenzene-d5
Concen: 2.361 ng
RT: 7.54 min Scan# 885
Delta R.T. -0.01 min
Lab File: BF107681.D
Acq: 26 Jul 2018 3:14

Instrument :
BNA_F
ClientSampleId :

Tot Ion: 82 Resp: 21481
Ion Ratio Lower Upper
82 100
128 45.2 36.1 54.1
54 64.9 41.4 62.2#

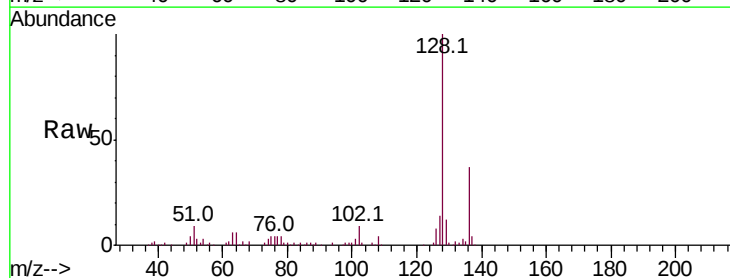


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

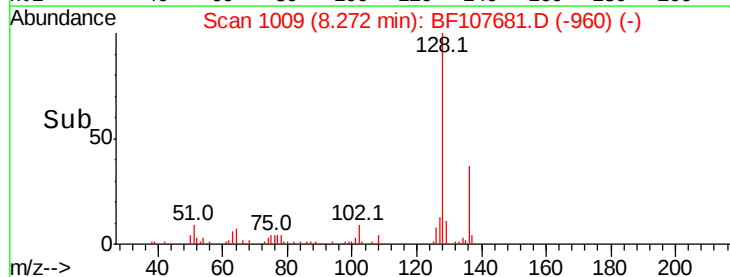
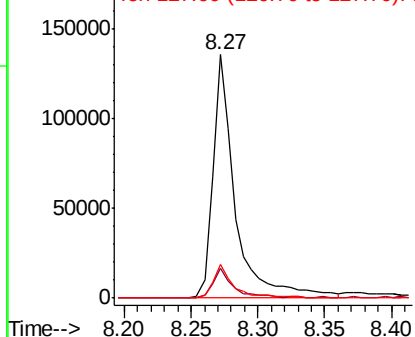


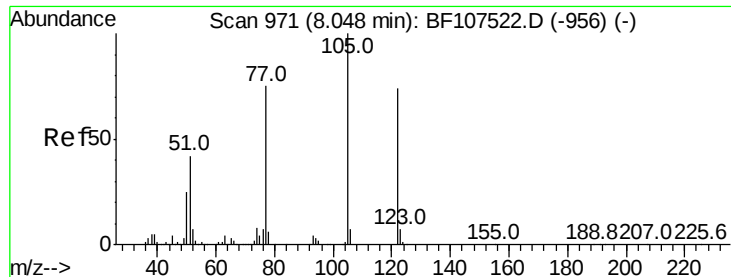
#31
Naphthalene
Concen: 5.911 ng
RT: 8.27 min Scan# 1009
Delta R.T. -0.01 min
Lab File: BF107681.D
Acq: 26 Jul 2018 3:14

Tgt Ion: 128 Resp: 159610
Ion Ratio Lower Upper
128 100
129 12.1 8.8 13.2
127 13.6 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





#32

Benzoic acid

Concen: 7.924 ng

RT: 8.27 min Scan# 1009

Delta R.T. 0.22 min

Lab File: BF107681.D

Acq: 26 Jul 2018 3:14

Instrument :

BNA_F

ClientSampleId :

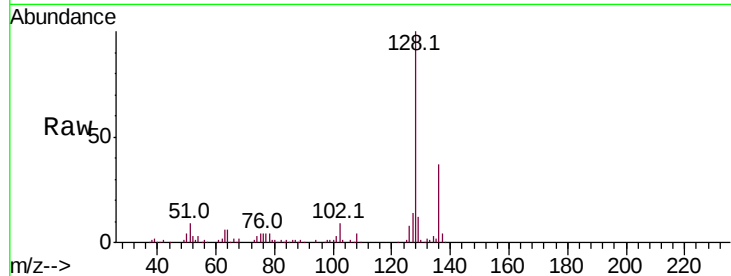
Tot Ion:122 Resp: 169

Ion Ratio Lower Upper

122 100

105 0.0 101.1 141.1#

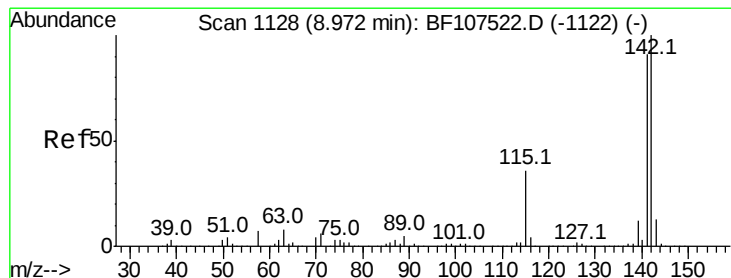
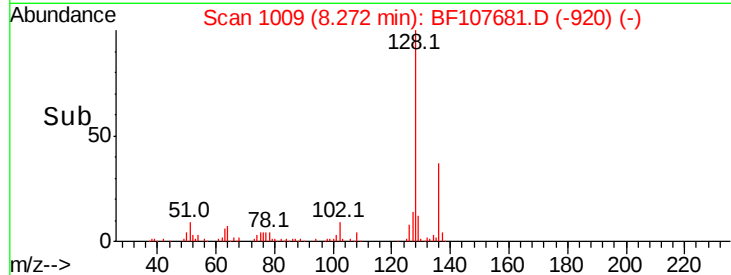
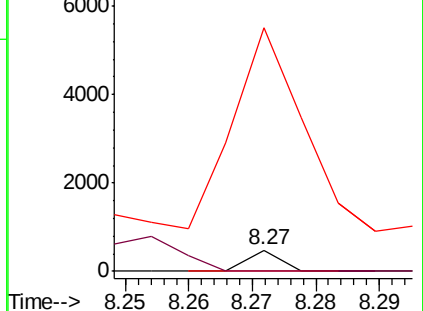
77 1150.7 70.7 110.7#



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1



#37

2-Methylnaphthalene

Concen: 2.777 ng

RT: 8.97 min Scan# 1127

Delta R.T. -0.01 min

Lab File: BF107681.D

Acq: 26 Jul 2018 3:14

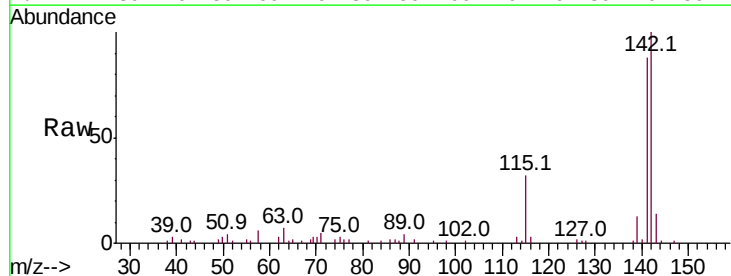
Tgt Ion:142 Resp: 51962

Ion Ratio Lower Upper

142 100

141 88.3 70.8 106.2

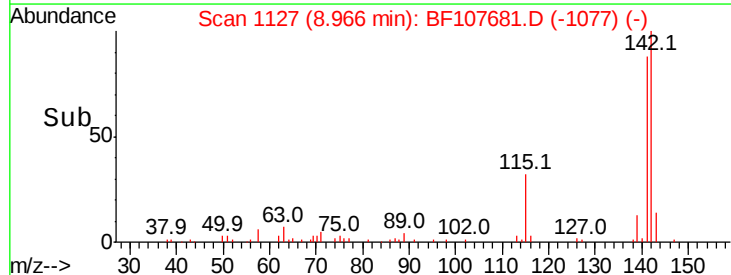
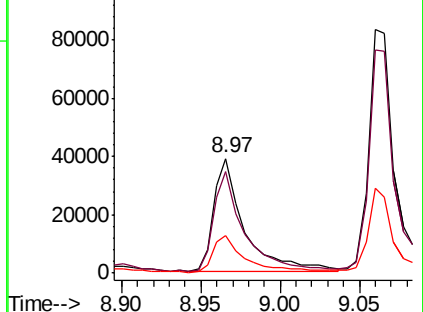
115 32.4 26.1 39.1

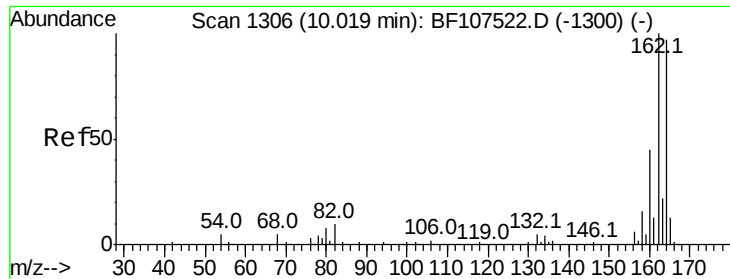


Abundance Ion 142.00 (141.70 to 142.70): E

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: 10.01 min Scan# 1304

Delta R.T. -0.01 min

Lab File: BF107681.D

Acq: 26 Jul 2018 3:14

Instrument :

BNA_F

ClientSampleId :

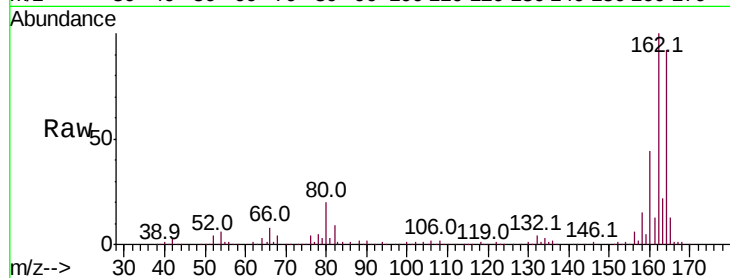
Tot Ion:164 Resp: 240494

Ion Ratio Lower Upper

164 100

162 109.0 86.1 129.1

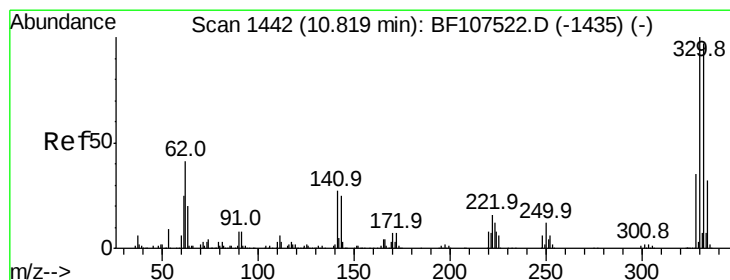
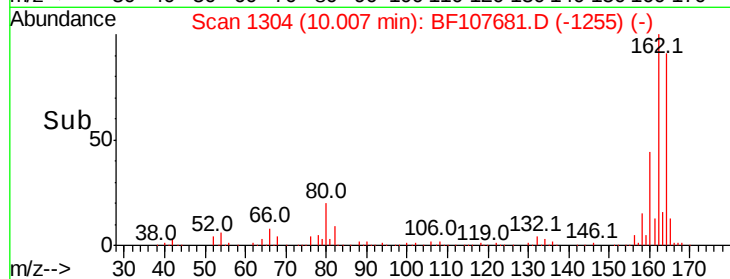
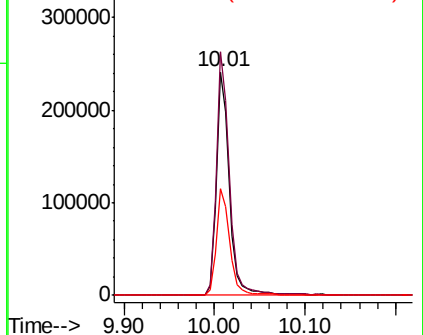
160 47.7 38.3 57.5



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: 3.934 ng

RT: 10.81 min Scan# 1440

Delta R.T. -0.01 min

Lab File: BF107681.D

Acq: 26 Jul 2018 3:14

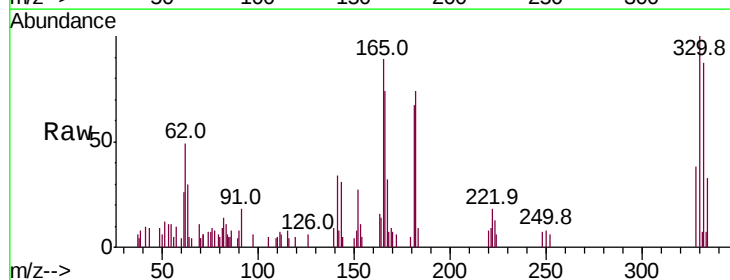
Tgt Ion:330 Resp: 10759

Ion Ratio Lower Upper

330 100

332 91.7 77.0 115.6

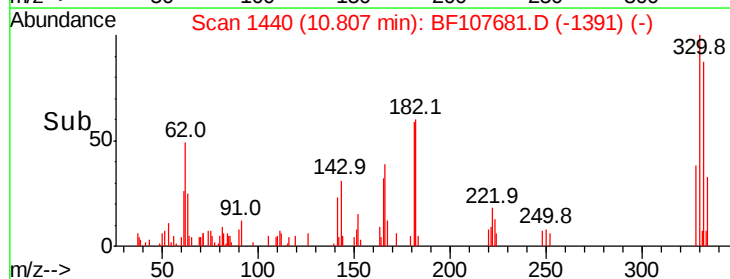
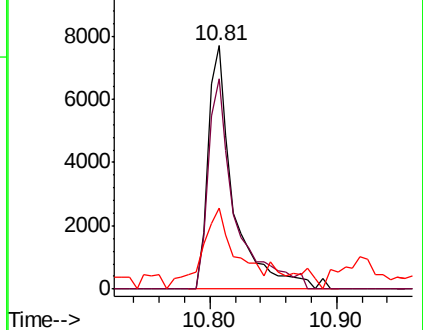
141 44.9 29.9 44.9

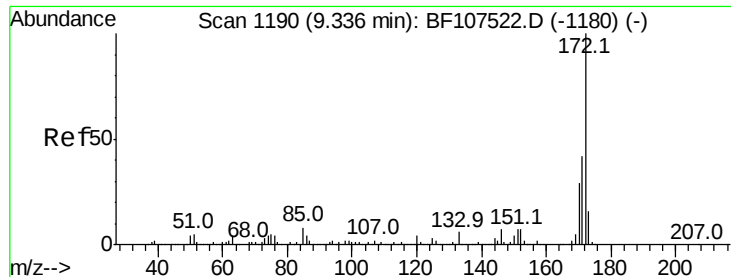


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

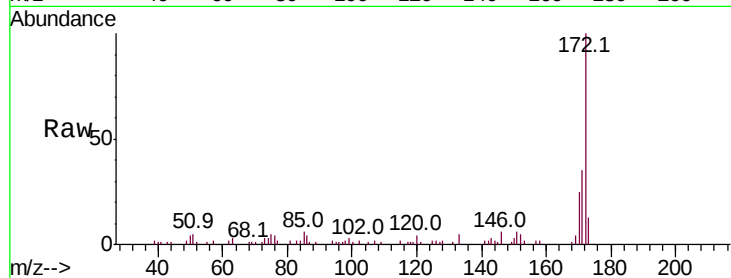




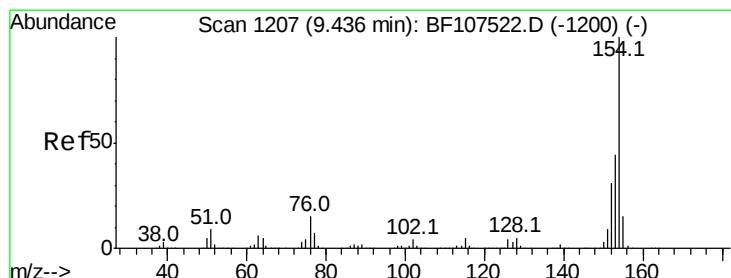
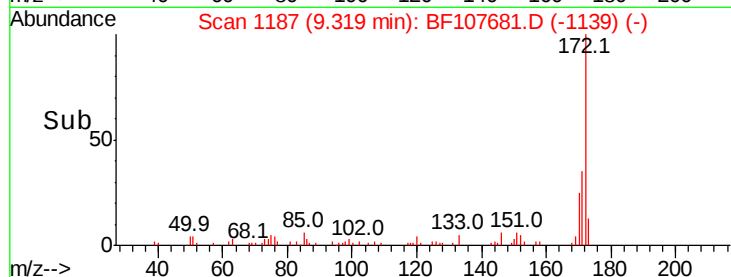
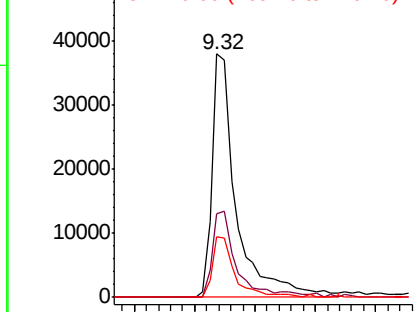
#44
2-Fluorobiphenyl
Concen: -1.000 ng
RT: 9.32 min Scan# 1187
Delta R.T. -0.02 min
Lab File: BF107681.D
Acq: 26 Jul 2018 3:14

Instrument :
BNA_F
ClientSampleId :

Tot Ion:172 Resp: 52395
Ion Ratio Lower Upper
172 100
171 34.6 29.7 44.5
170 24.9 19.6 29.4

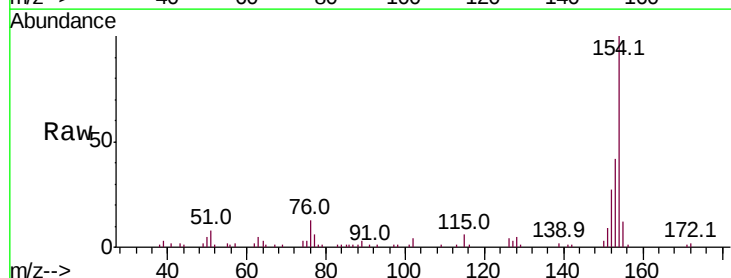


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

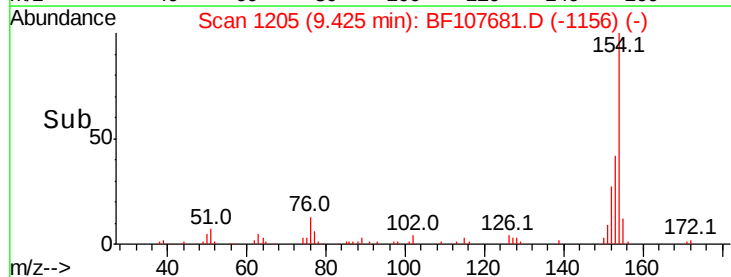
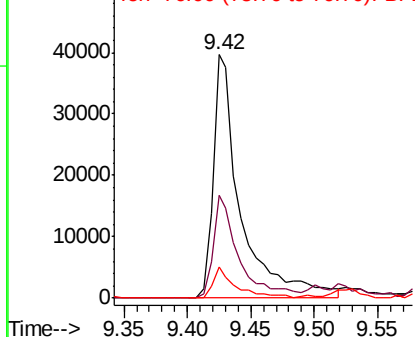


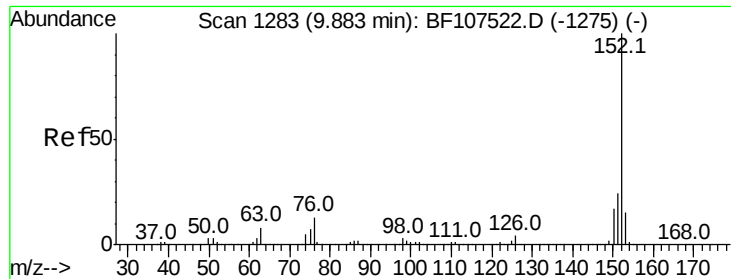
#45
1,1'-Biphenyl
Concen: 2.875 ng
RT: 9.42 min Scan# 1205
Delta R.T. -0.01 min
Lab File: BF107681.D
Acq: 26 Jul 2018 3:14

Tgt Ion:154 Resp: 60232
Ion Ratio Lower Upper
154 100
153 42.1 21.3 61.3
76 12.8 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: 2.974 ng

RT: 9.87 min Scan# 1281

Delta R.T. -0.01 min

Lab File: BF107681.D

Acq: 26 Jul 2018 3:14

Instrument :

BNA_F

ClientSampleId :

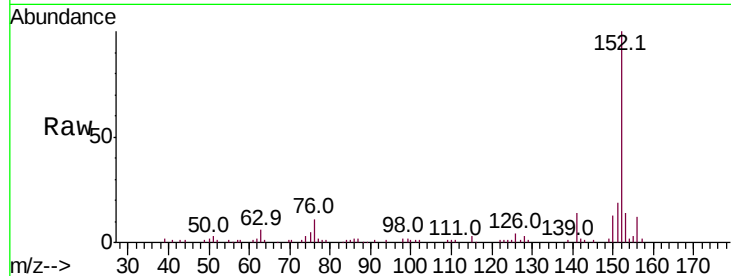
Tot Ion:152 Resp: 71545

Ion Ratio Lower Upper

152 100

151 19.1 16.3 24.5

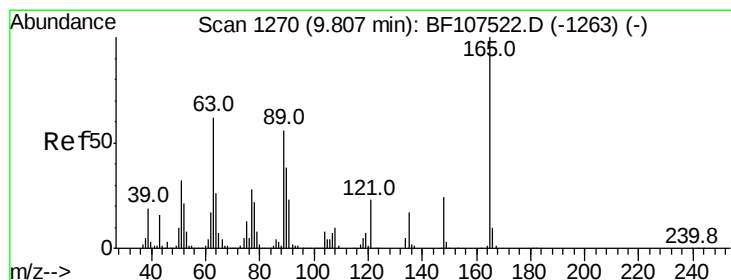
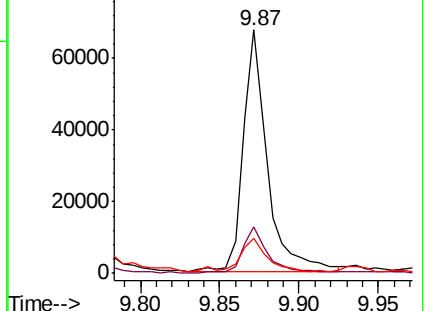
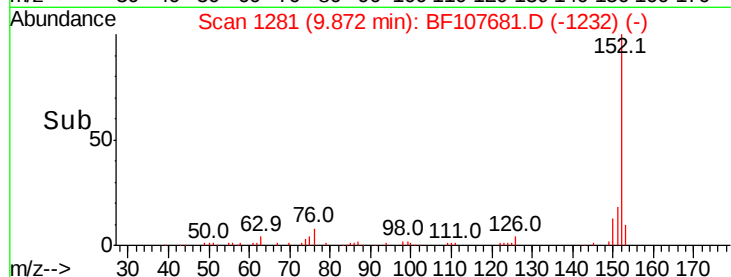
153 14.3 10.7 16.1



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: 10.221 ng

RT: 10.01 min Scan# 1304

Delta R.T. 0.20 min

Lab File: BF107681.D

Acq: 26 Jul 2018 3:14

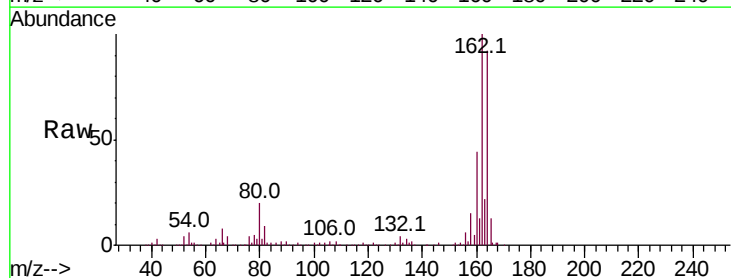
Tgt Ion:165 Resp: 36781

Ion Ratio Lower Upper

165 100

63 1.4 44.7 67.1#

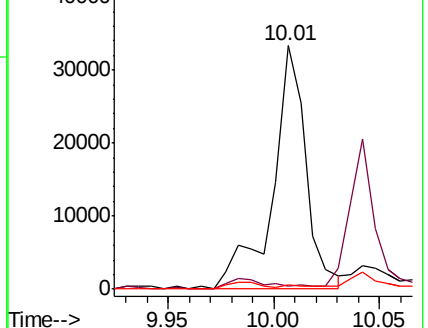
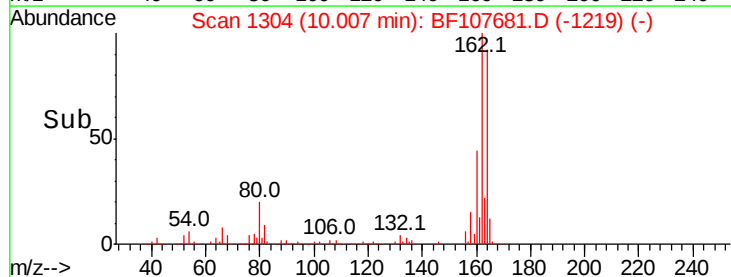
89 1.9 44.0 66.0#

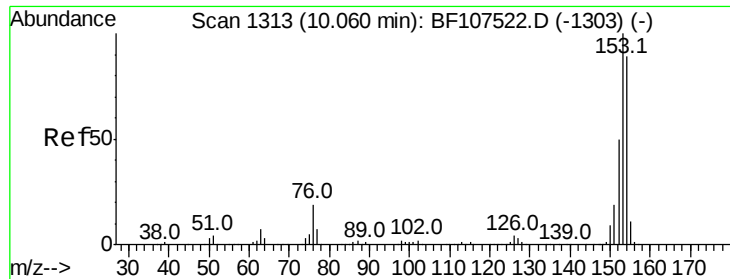


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1





#51

Acenaphthene

Concen: 13.167 ng

RT: 10.04 min Scan# 1310

Delta R.T. -0.02 min

Lab File: BF107681.D

Acq: 26 Jul 2018 3:14

Instrument :

BNA_F

ClientSampleId :

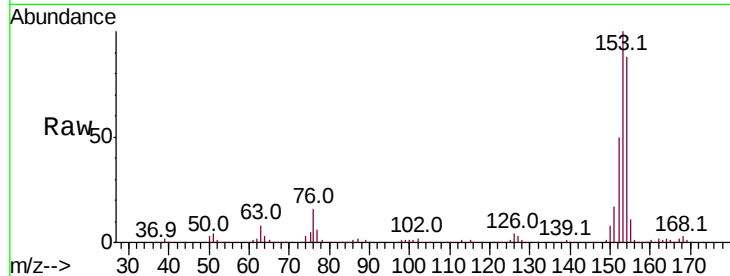
Tot Ion:154 Resp: 198455

Ion Ratio Lower Upper

154 100

153 114.3 91.2 136.8

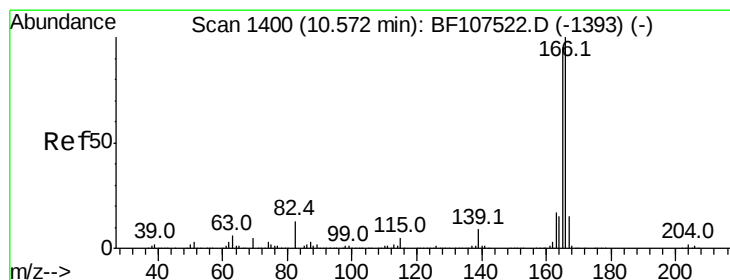
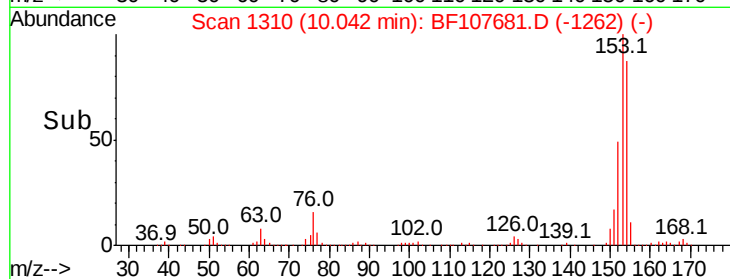
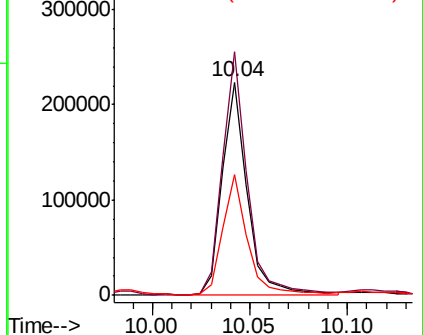
152 56.6 43.8 65.8



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



#57

Fluorene

Concen: 9.274 ng

RT: 10.56 min Scan# 1398

Delta R.T. -0.01 min

Lab File: BF107681.D

Acq: 26 Jul 2018 3:14

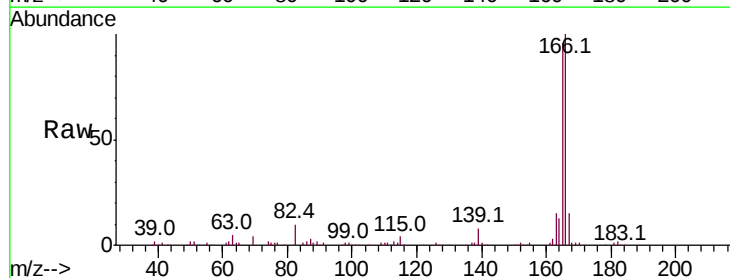
Tgt Ion:166 Resp: 146814

Ion Ratio Lower Upper

166 100

165 96.2 79.8 119.8

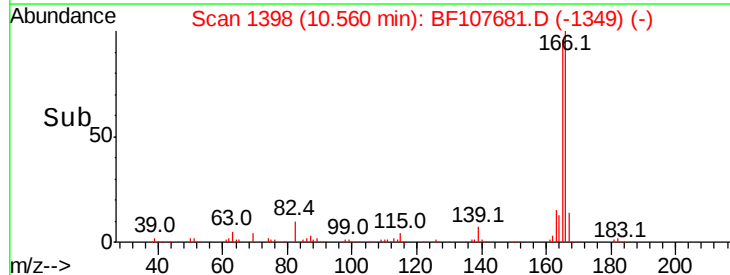
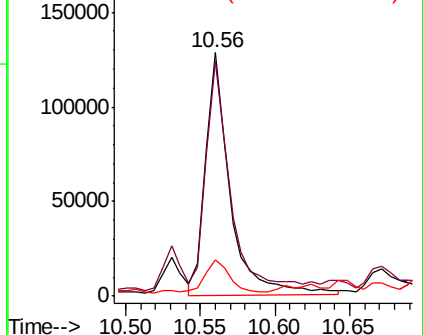
167 14.9 10.6 16.0

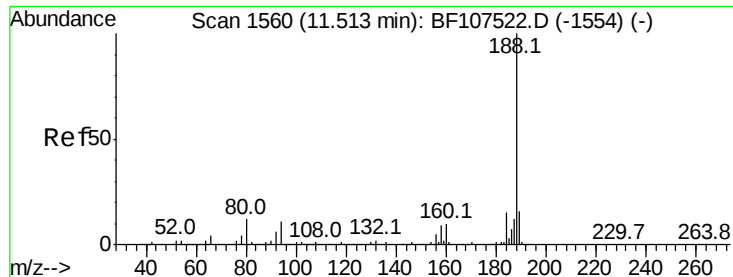


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

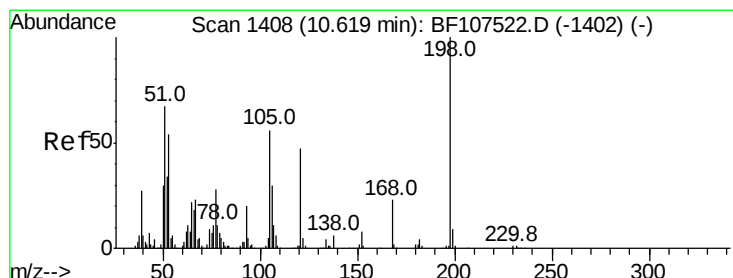
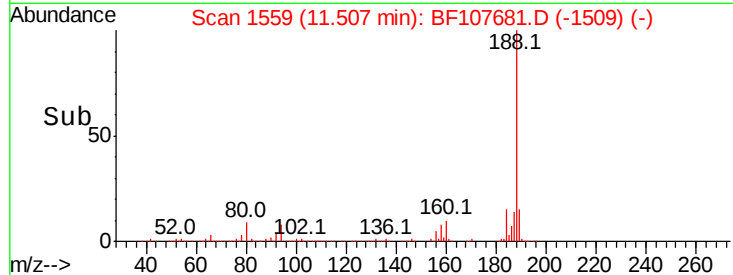
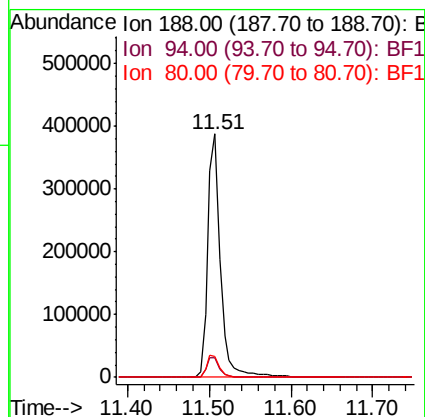
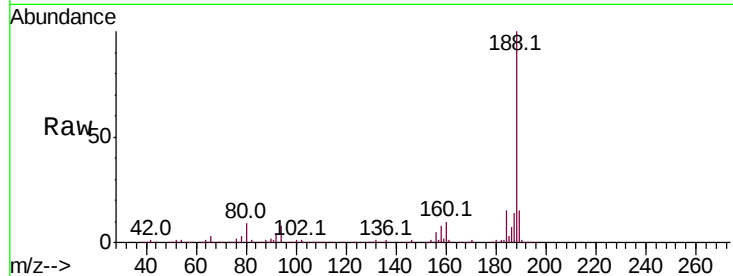




#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.51 min Scan# 1559
Delta R.T. -0.01 min
Lab File: BF107681.D
Acq: 26 Jul 2018 3:14

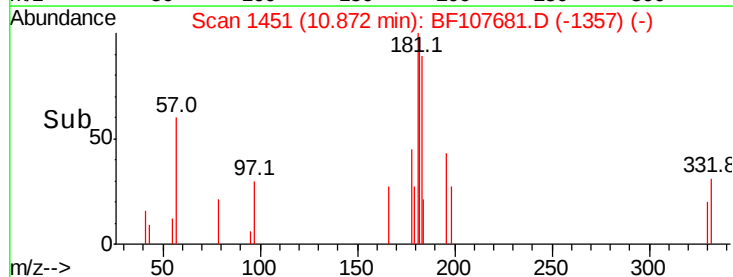
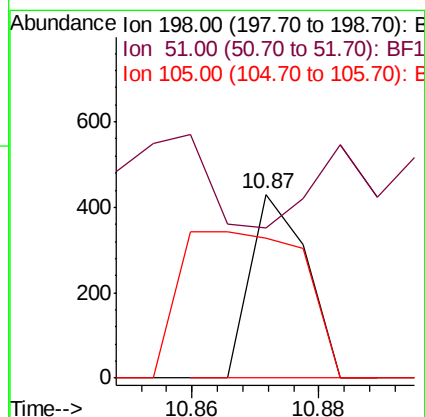
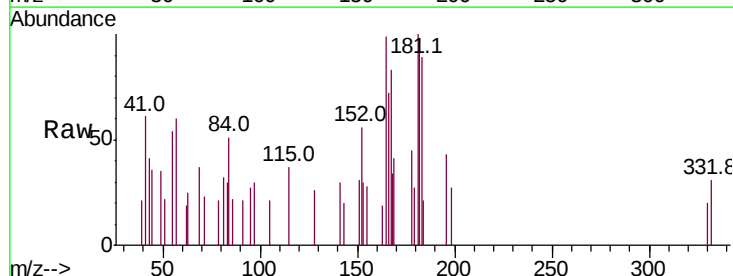
Instrument :
BNA_F
ClientSampleId :

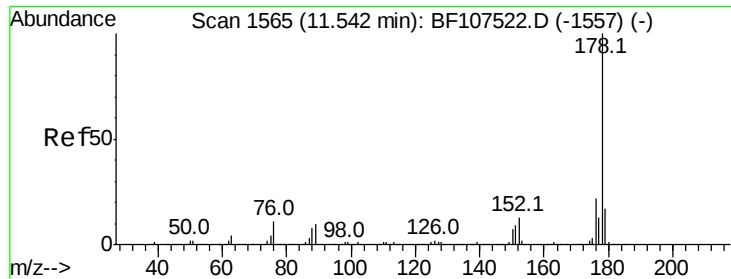
Tot Ion:188 Resp: 419563
Ion Ratio Lower Upper
188 100
94 8.1 8.5 12.7#
80 8.8 9.2 13.8#



#64
4,6-Dinitro-2-methylphenol
Concen: 8.787 ng
RT: 10.87 min Scan# 1451
Delta R.T. 0.25 min
Lab File: BF107681.D
Acq: 26 Jul 2018 3:14

Tgt Ion:198 Resp: 263
Ion Ratio Lower Upper
198 100
51 81.7 37.7 77.7#
105 76.3 36.3 76.3#

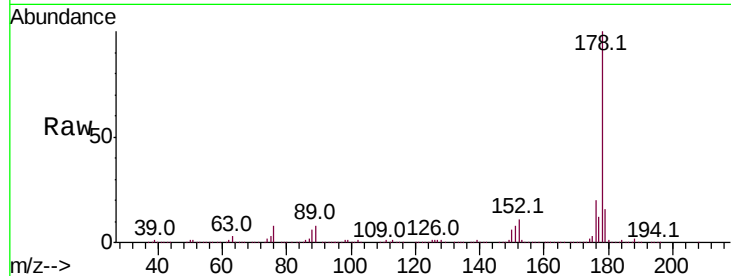




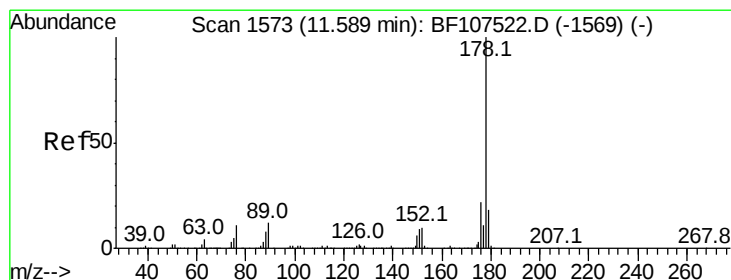
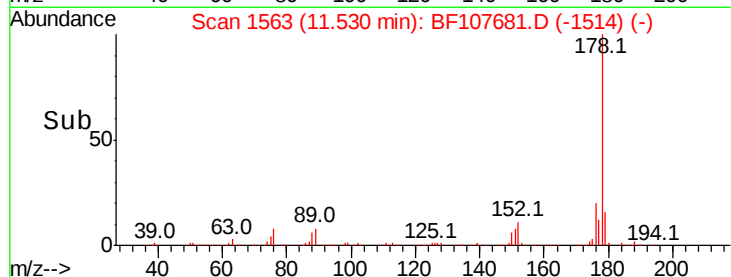
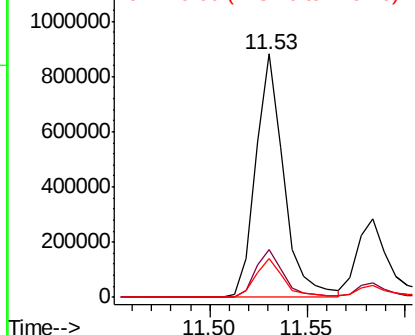
#70
Phenanthrene
Concen: 42.840 ng
RT: 11.53 min Scan# 1563
Delta R.T. -0.01 min
Lab File: BF107681.D
Acq: 26 Jul 2018 3:14

Instrument :
BNA_F
ClientSampled :

Tot Ion:178 Resp: 875874
Ion Ratio Lower Upper
178 100
176 19.8 15.8 23.8
179 16.0 13.0 19.6

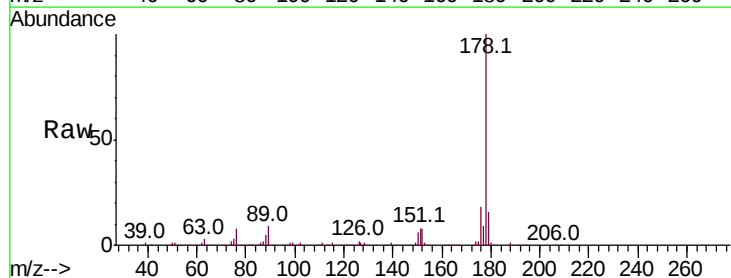


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

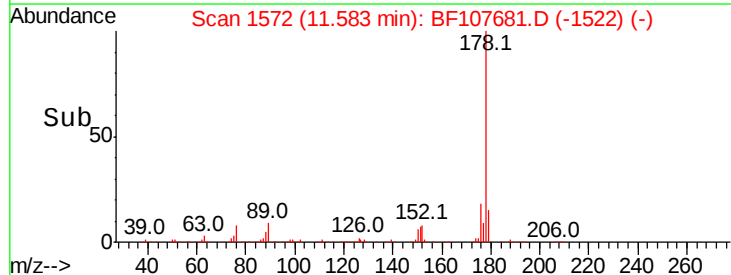
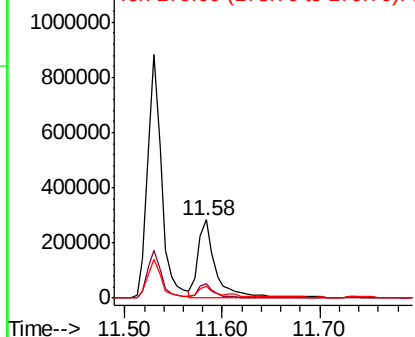


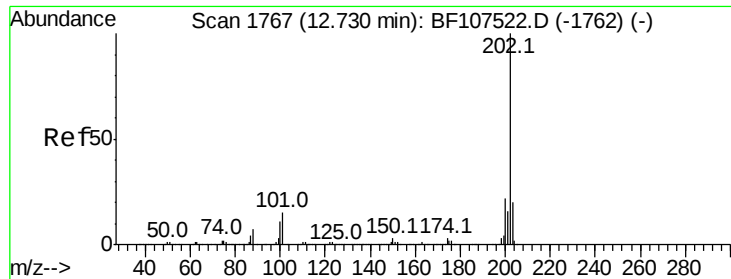
#71
Anthracene
Concen: 17.209 ng
RT: 11.58 min Scan# 1572
Delta R.T. -0.01 min
Lab File: BF107681.D
Acq: 26 Jul 2018 3:14

Tgt Ion:178 Resp: 354252
Ion Ratio Lower Upper
178 100
176 18.3 15.4 23.2
179 15.9 12.6 19.0



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





#74

Fluoranthene

Concen: 23.979 ng

RT: 12.72 min Scan# 1766

Delta R.T. -0.01 min

Lab File: BF107681.D

Acq: 26 Jul 2018 3:14

Instrument :

BNA_F

ClientSampleId :

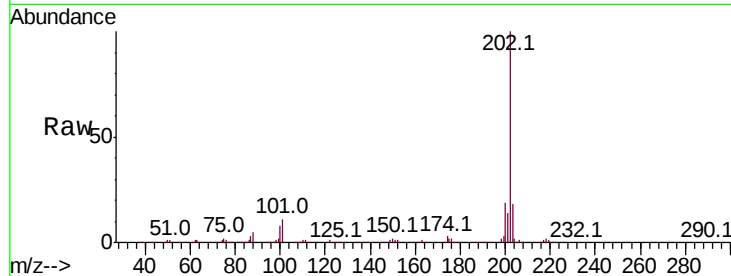
Tot Ion:202 Resp: 526094

Ion Ratio Lower Upper

202 100

101 10.6 0.0 34.1

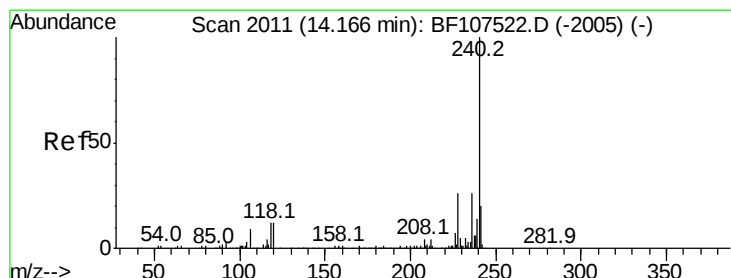
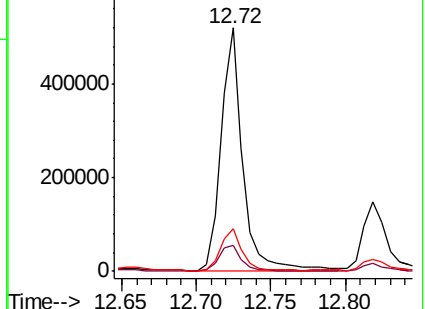
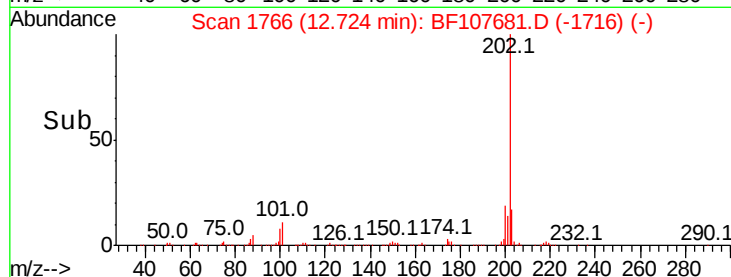
203 17.5 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.15 min Scan# 2009

Delta R.T. -0.01 min

Lab File: BF107681.D

Acq: 26 Jul 2018 3:14

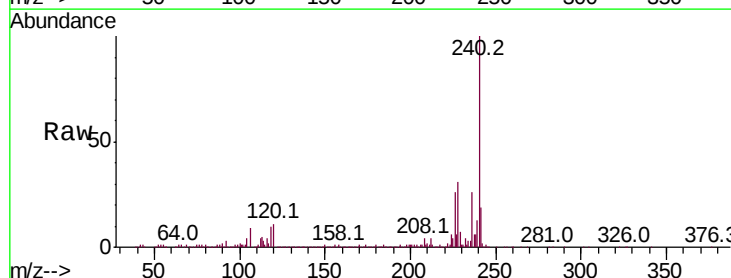
Tgt Ion:240 Resp: 341068

Ion Ratio Lower Upper

240 100

120 11.2 9.5 14.3

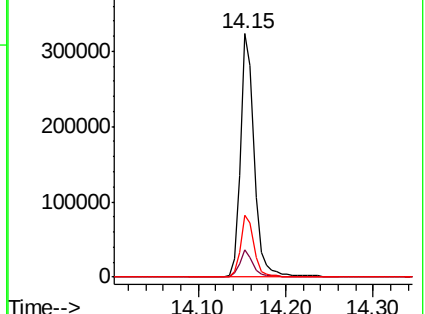
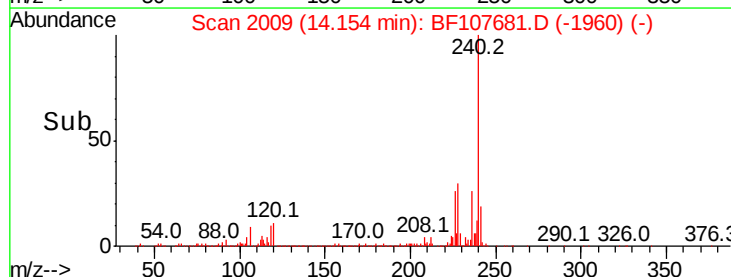
236 25.5 20.7 31.1

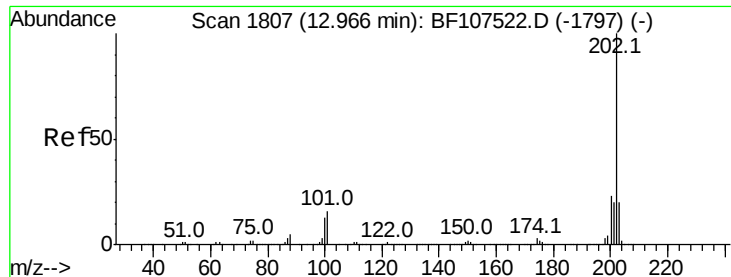


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 29.069 ng

RT: 12.95 min Scan# 1805

Delta R.T. -0.01 min

Lab File: BF107681.D

Acq: 26 Jul 2018 3:14

Instrument :

BNA_F

ClientSampleId :

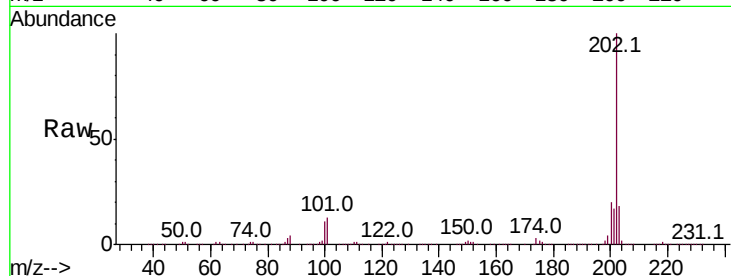
Tot Ion:202 Resp: 678165

Ion Ratio Lower Upper

202 100

200 20.1 17.4 26.2

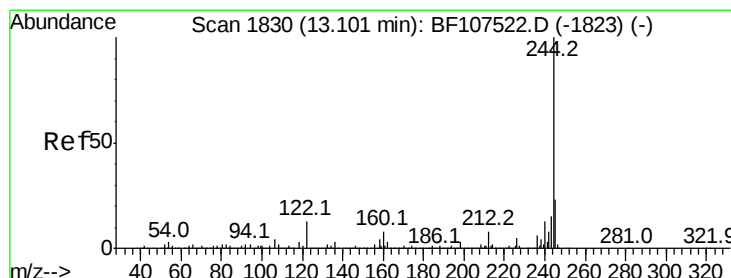
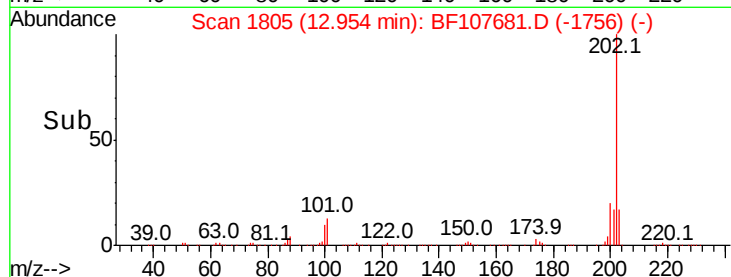
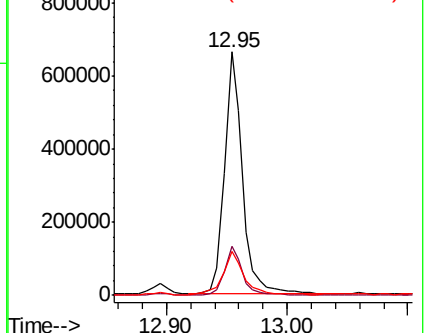
203 18.1 14.3 21.5



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: 3.456 ng

RT: 13.08 min Scan# 1827

Delta R.T. -0.02 min

Lab File: BF107681.D

Acq: 26 Jul 2018 3:14

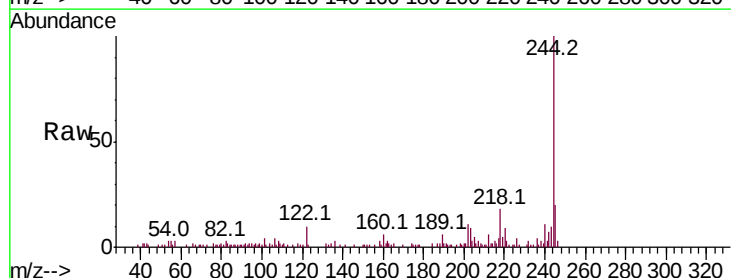
Tgt Ion:244 Resp: 46040

Ion Ratio Lower Upper

244 100

212 6.2 5.4 8.0

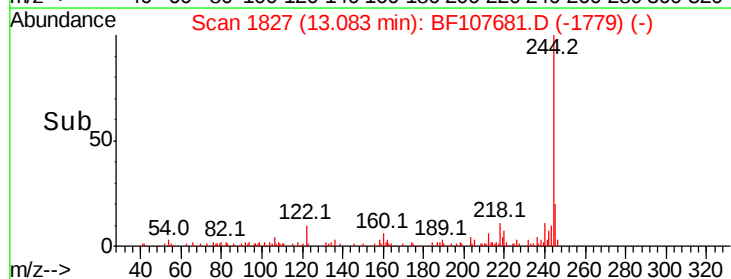
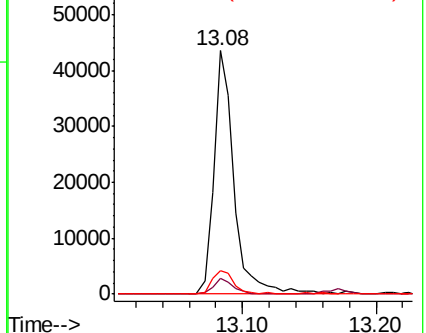
122 9.8 11.0 16.4#

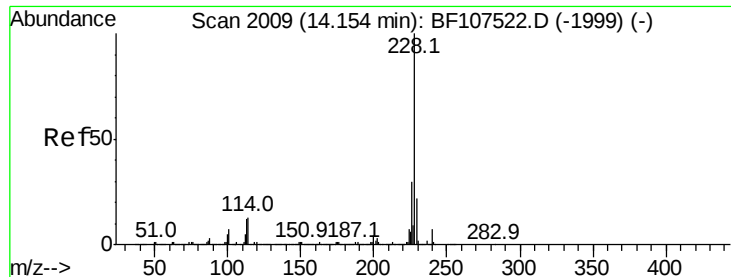


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

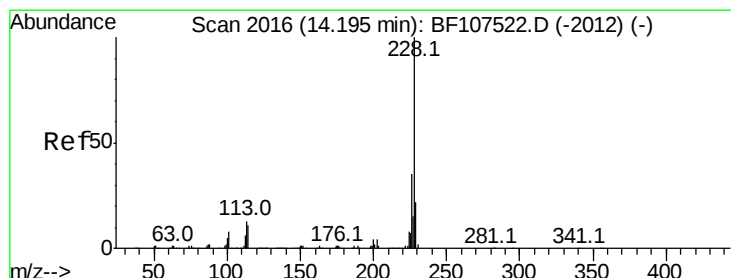
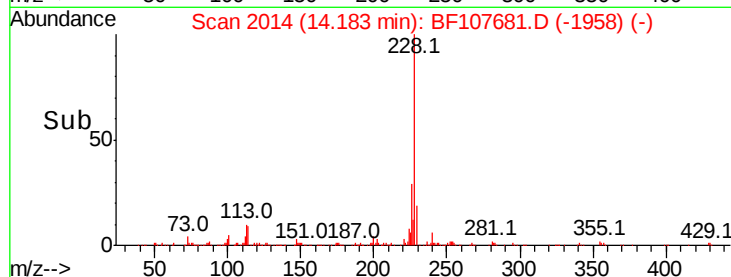
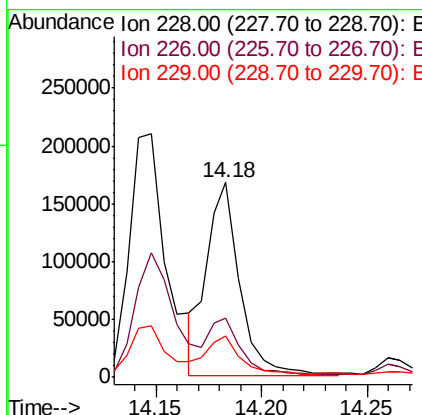
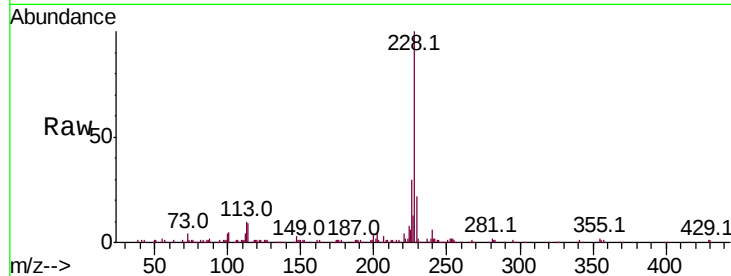




#80
Benzo(a)anthracene
Concen: 9.285 ng
RT: 14.18 min Scan# 2014
Delta R.T. 0.03 min
Lab File: BF107681.D
Acq: 26 Jul 2018 3:14

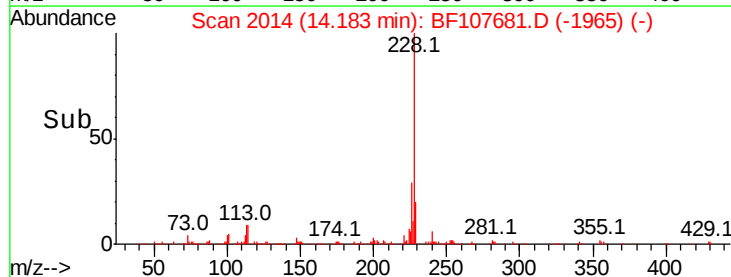
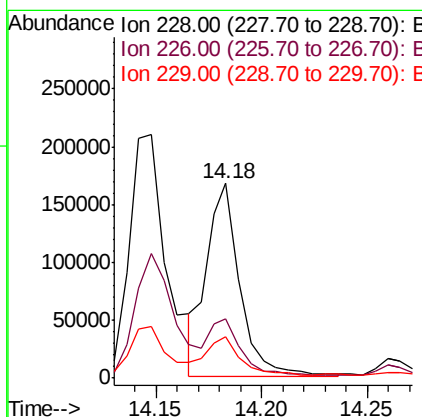
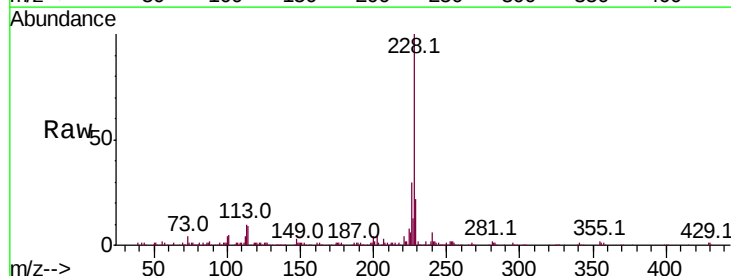
Instrument :
BNA_F
ClientSampled :

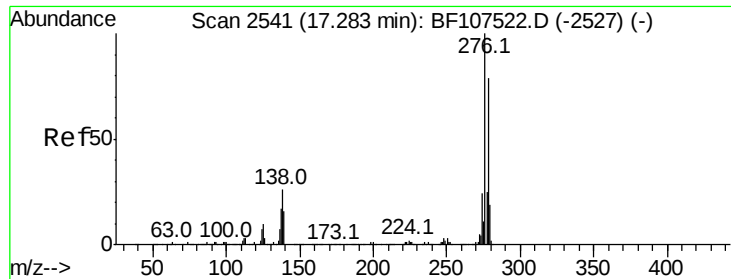
Tot Ion:228 Resp: 185591
Ion Ratio Lower Upper
228 100
226 30.3 22.6 33.8
229 21.6 15.8 23.6



#82
Chrysene
Concen: 9.666 ng
RT: 14.18 min Scan# 2014
Delta R.T. -0.01 min
Lab File: BF107681.D
Acq: 26 Jul 2018 3:14

Tgt Ion:228 Resp: 185591
Ion Ratio Lower Upper
228 100
226 30.3 25.0 37.6
229 21.6 16.2 24.4

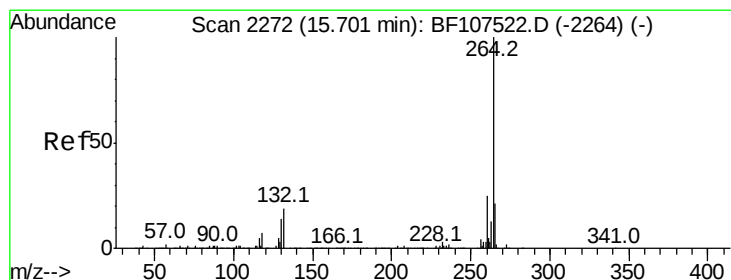
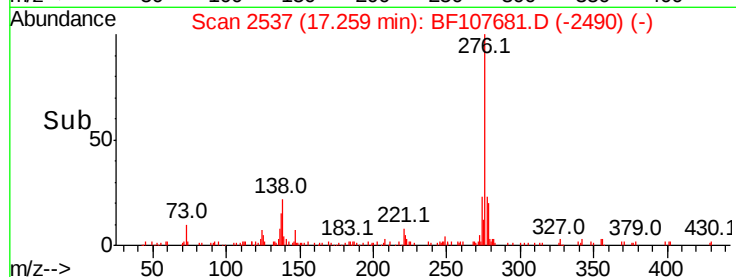
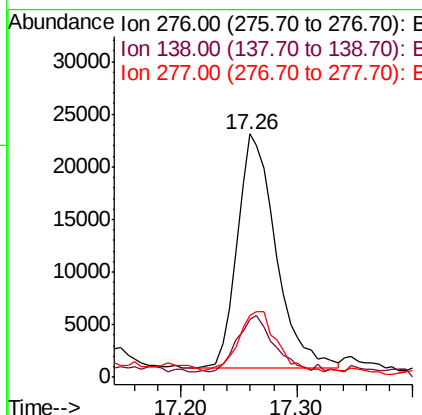
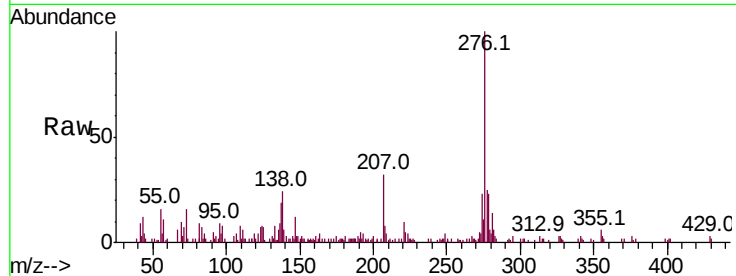




#85
Indeno(1,2,3-cd)pyrene
Concen: 3.176 ng
RT: 17.26 min Scan# 2537
Delta R.T. -0.02 min
Lab File: BF107681.D
Acq: 26 Jul 2018 3:14

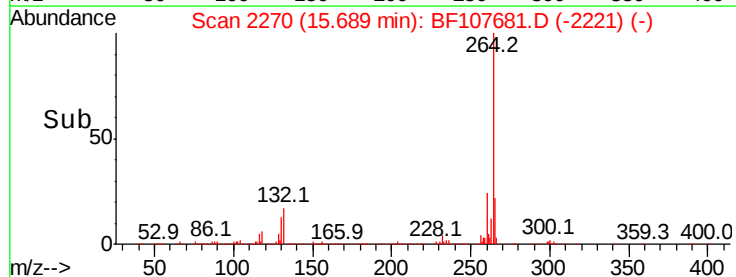
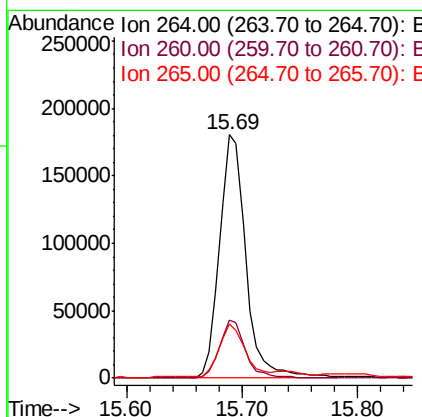
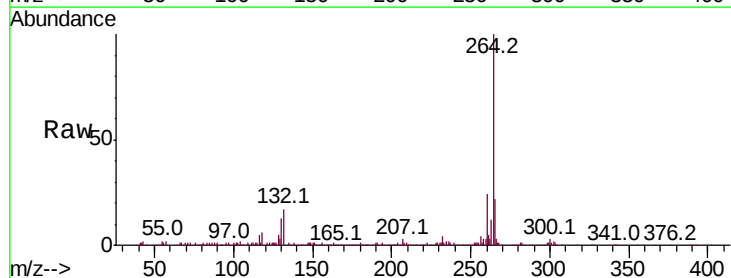
Instrument :
BNA_F
ClientSampleId :

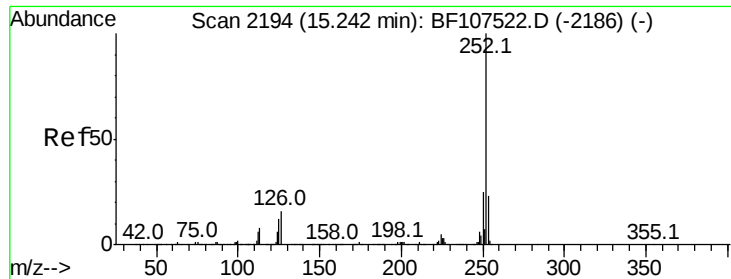
Tot Ion	Ratio	Lower	Upper
276	100		
138	22.3	25.0	37.6#
277	25.3	20.1	30.1



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.69 min Scan# 2270
Delta R.T. -0.01 min
Lab File: BF107681.D
Acq: 26 Jul 2018 3:14

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.2	28.8
265	22.3	17.5	26.3

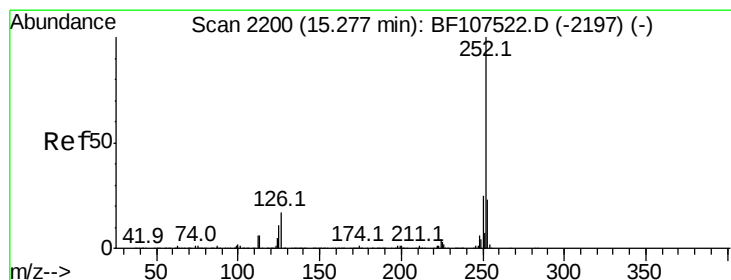
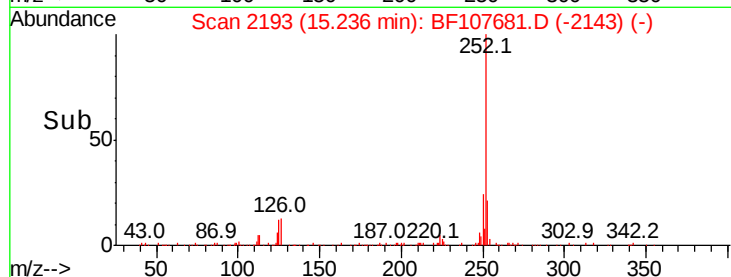
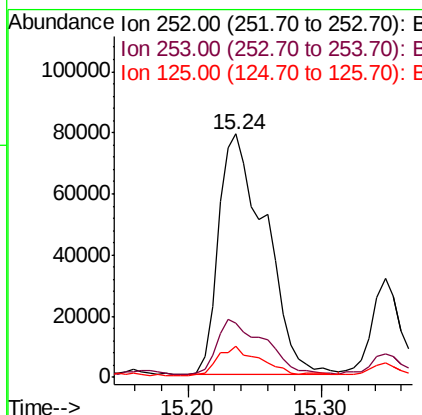
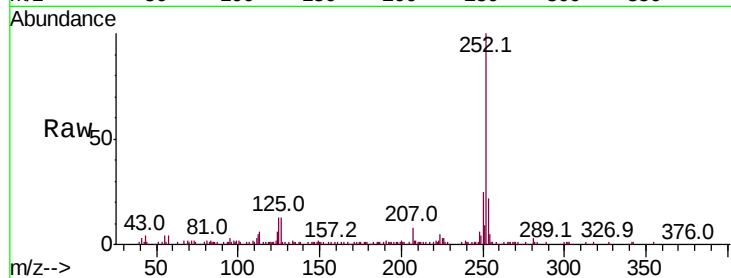




#87
Benzo(b)fluoranthene
Concen: 12.412 ng
RT: 15.24 min Scan# 2193
Delta R.T. -0.01 min
Lab File: BF107681.D
Acq: 26 Jul 2018 3:14

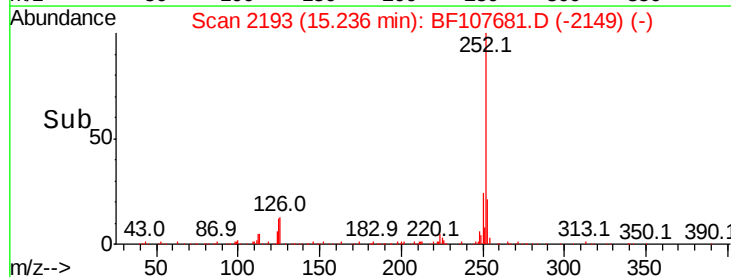
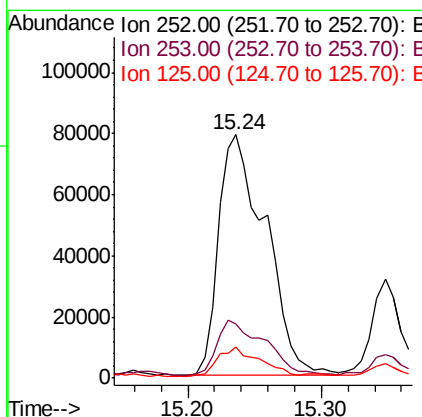
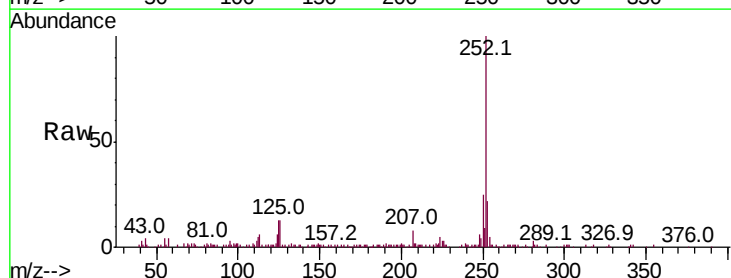
Instrument :
BNA_F
ClientSampleId :

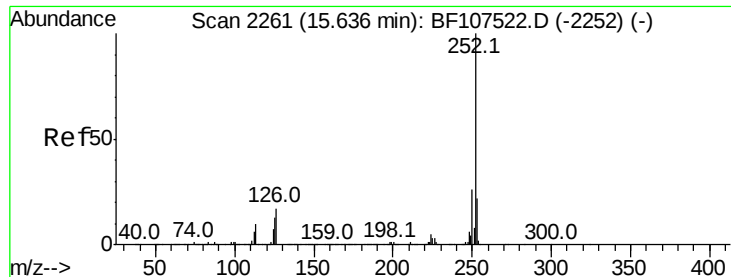
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.0	25.6
125	13.0	9.0	13.6



#88
Benzo(k)fluoranthene
Concen: 12.669 ng
RT: 15.24 min Scan# 2193
Delta R.T. -0.04 min
Lab File: BF107681.D
Acq: 26 Jul 2018 3:14

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.9	26.9
125	13.0	10.2	15.2





#89

Benzo(a)pyrene

Concen: 10.795 ng

RT: 15.62 min Scan# 2259

Delta R.T. -0.01 min

Lab File: BF107681.D

Acq: 26 Jul 2018 3:14

Instrument :

BNA_F

ClientSampleId :

Tot Ion:252 Resp: 153620

Ion Ratio Lower Upper

252 100

253 22.2 17.1 25.7

125 10.7 9.8 14.6

