

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072518\
 Data File : BF107682.D
 Acq On : 26 Jul 2018 3:41
 Operator : JU/SJ
 Sample : J4126-11DL 10X
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jul 26 07:53:01 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	170179	20.00	ng	-0.01
21) Naphthalene-d8	8.25	136	696520	20.00	ng	-0.01
38) Acenaphthene-d10	10.01	164	271810	20.00	ng	-0.01
63) Phenanthrene-d10	11.51	188	467466	20.00	ng	0.00
75) Chrysene-d12	14.15	240	383886	20.00	ng	-0.01
86) Perylene-d12	15.69	264	337252	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.60	112	37722	3.56	ng	0.00
7) Phenol-d6	6.61	99	51860	4.08	ng	0.00
23) Nitrobenzene-d5	7.54	82	43596	4.22	ng	0.00
41) 2,4,6-Tribromophenol	10.81	330	16073	5.20	ng	-0.01
44) 2-Fluorobiphenyl	9.32	172	81963	-1.00	ng	-0.02
78) Terphenyl-d14	13.08	244	65961	4.40	ng	-0.02

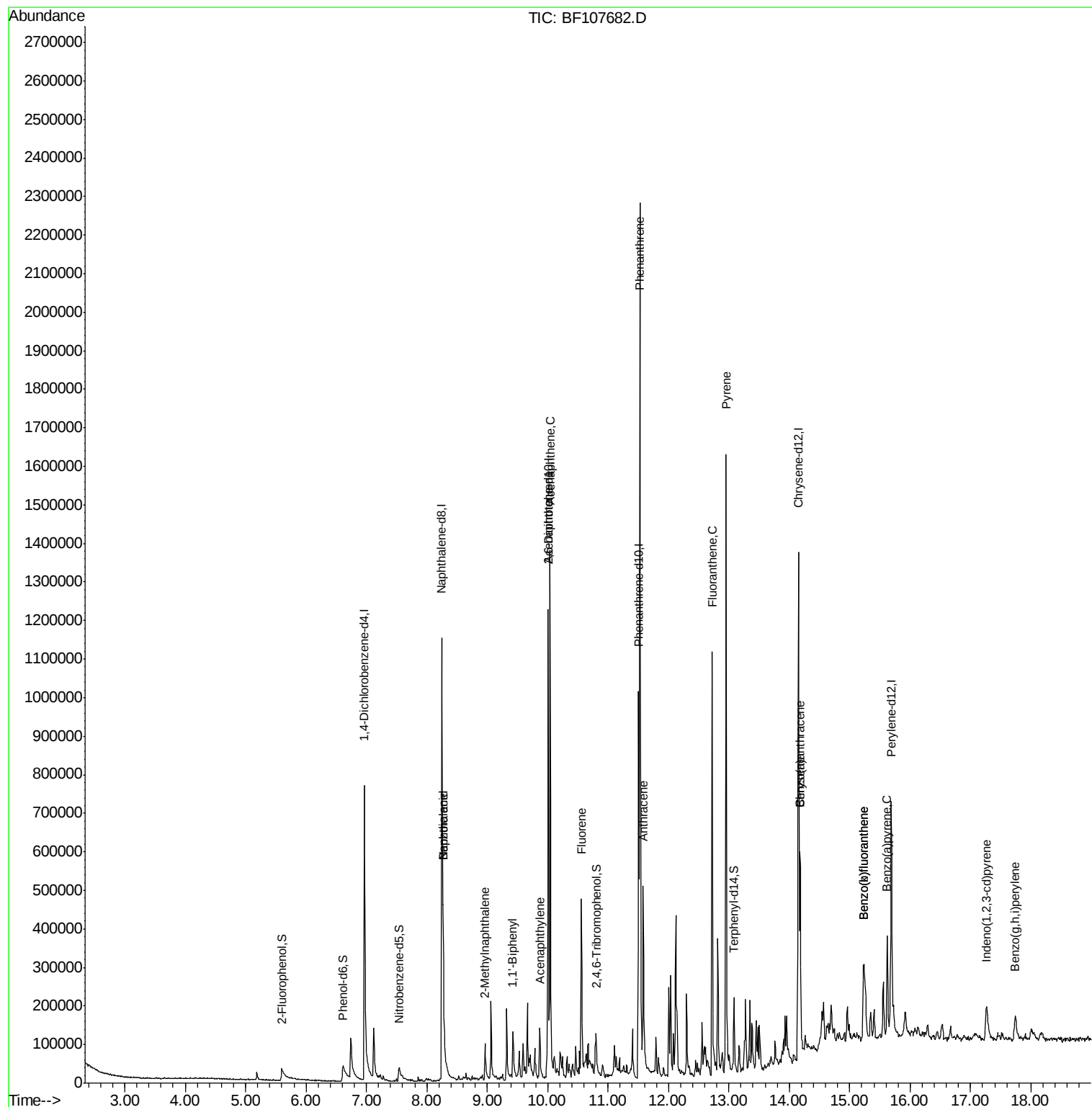
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.74	77	950	Below Cal		# 73
31) Naphthalene	8.27	128	199561	6.515	ng	98
32) Benzoic acid	8.28	122	126	7.916	ng	# 1
37) 2-Methylnaphthalene	8.97	142	42826	2.018	ng	98
45) 1,1'-Biphenyl	9.42	154	65611	2.771	ng	95
48) Acenaphthylene	9.87	152	56020	2.060	ng	99
50) 2,6-Dinitrotoluene	10.01	165	38168	9.384	ng	# 26
51) Acenaphthene	10.04	154	304115	17.853	ng	99
57) Fluorene	10.56	166	167275	9.350	ng	97
70) Phenanthrene	11.53	178	938588	41.203	ng	99
71) Anthracene	11.58	178	287284	12.526	ng	98
73) Di-n-butylphthalate	12.04	149	1029	Below Cal		# 1
74) Fluoranthene	12.72	202	537557	21.991	ng	95
77) Pyrene	12.95	202	737634	28.092	ng	97
80) Benzo(a)anthracene	14.18	228	200326	8.905	ng	95
81) 3,3'-Dichlorobenzidine	14.19	252	4421	Below Cal		# 29
82) Chrysene	14.18	228	200326	9.270	ng	99
85) Indeno(1,2,3-cd)pyrene	17.27	276	56316	3.075	ng	# 91
87) Benzo(b)fluoranthene	15.23	252	188998	10.240	ng	99
88) Benzo(k)fluoranthene	15.23	252	188998	10.452	ng	97
89) Benzo(a)pyrene	15.62	252	160231	9.490	ng	98
91) Benzo(g,h,i)perylene	17.74	276	61084	4.243	ng	93

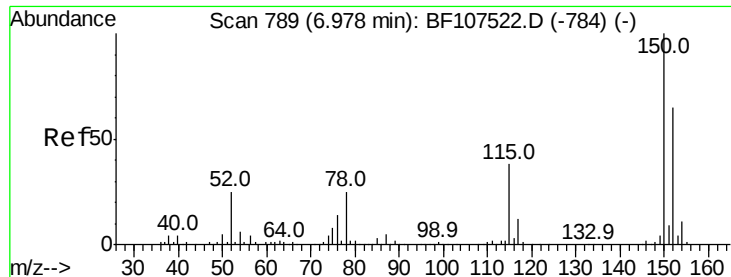
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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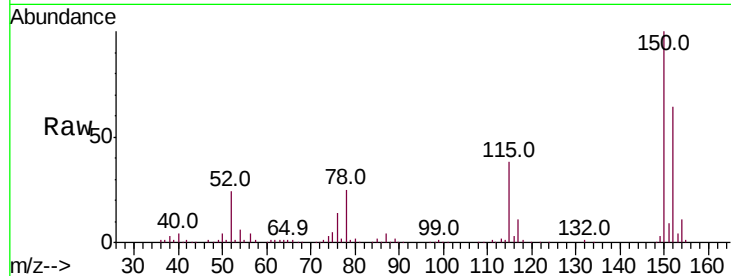


#1

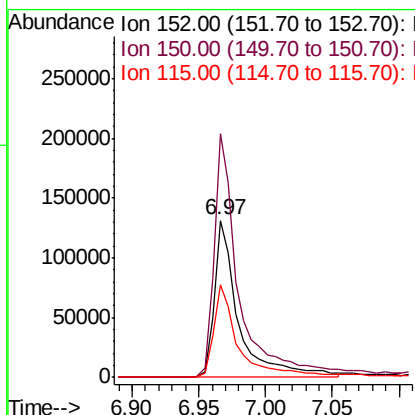
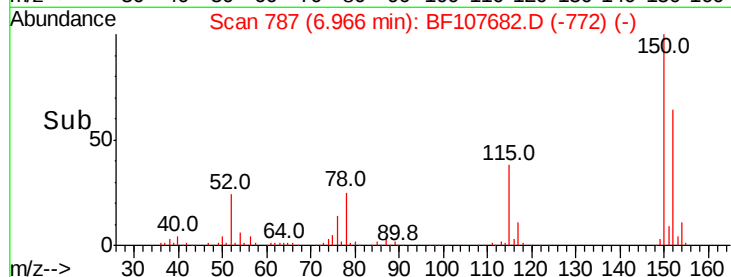
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.97 min Scan# 787
Delta R.T. -0.01 min
Lab File: BF107682.D
Acq: 26 Jul 2018 3:41

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 170179
Ion Ratio Lower Upper
152 100
150 155.3 124.6 186.8
115 58.7 50.1 75.1



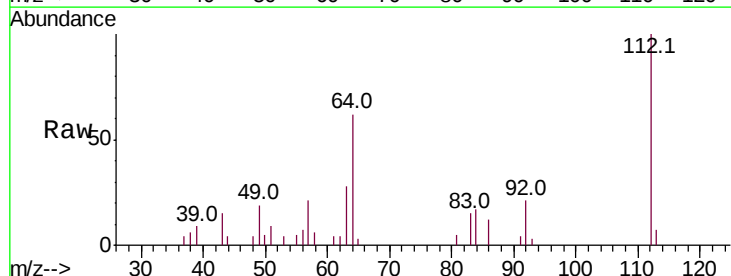
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



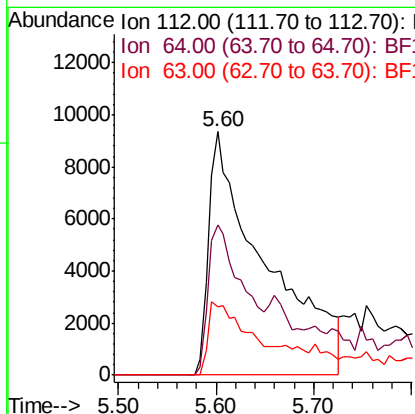
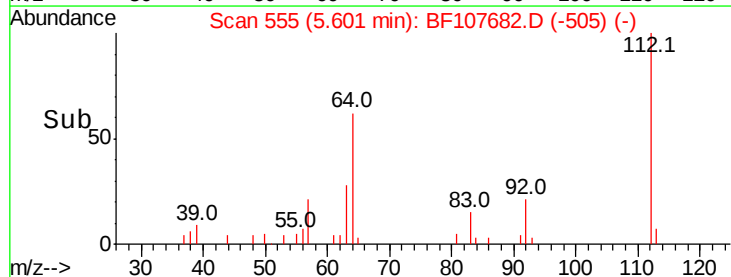
#5

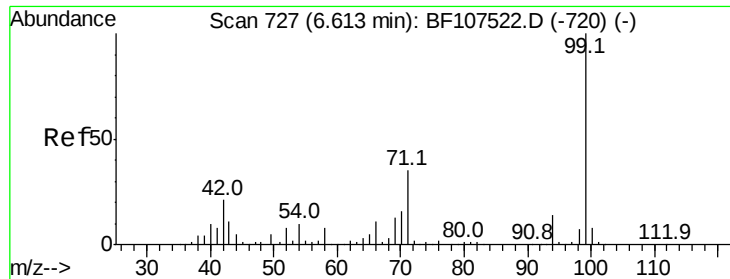
2-Fluorophenol
Concen: 3.564 ng
RT: 5.60 min Scan# 555
Delta R.T. -0.01 min
Lab File: BF107682.D
Acq: 26 Jul 2018 3:41

Tgt Ion:112 Resp: 37722
Ion Ratio Lower Upper
112 100
64 61.6 47.9 71.9
63 27.9 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: 4.080 ng

RT: 6.61 min Scan# 727

Delta R.T. 0.00 min

Lab File: BF107682.D

Acq: 26 Jul 2018 3:41

Instrument :

BNA_F

ClientSampleId :

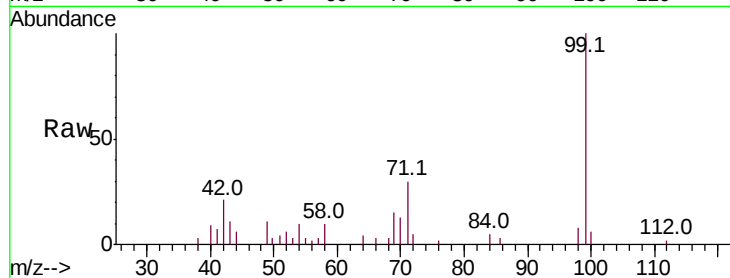
Tot Ion: 99 Resp: 51860

Ion Ratio Lower Upper

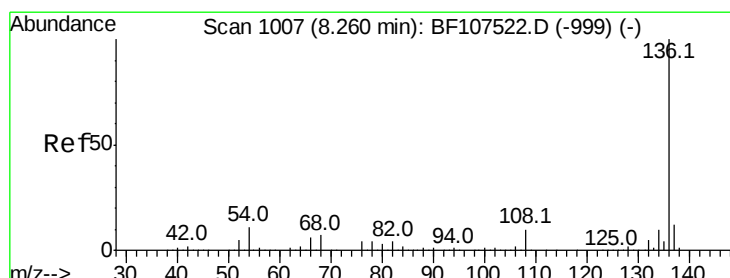
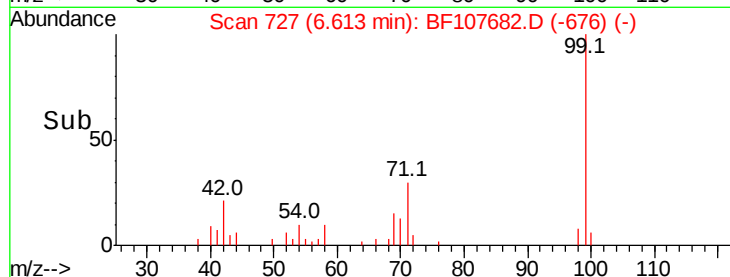
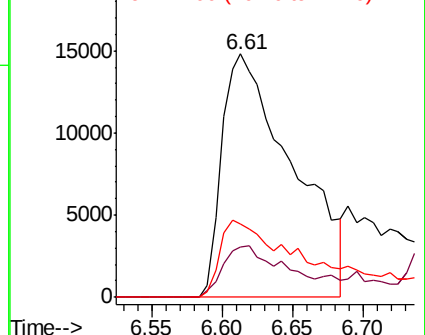
99 100

42 20.6 14.5 21.7

71 29.9 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: BF107682.D

Acq: 26 Jul 2018 3:41

Tgt Ion: 136 Resp: 696520

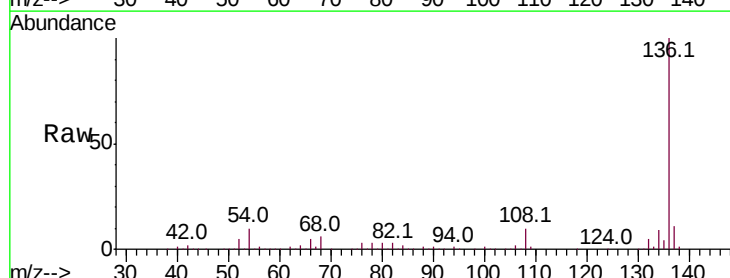
Ion Ratio Lower Upper

136 100

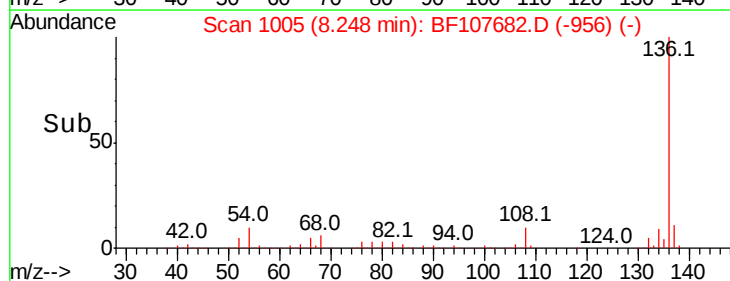
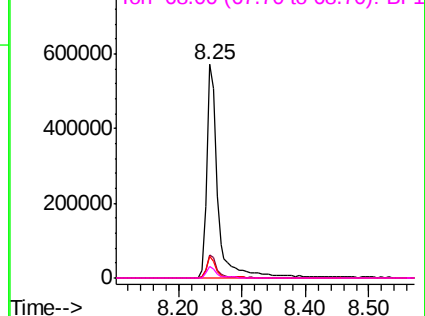
137 11.0 8.9 13.3

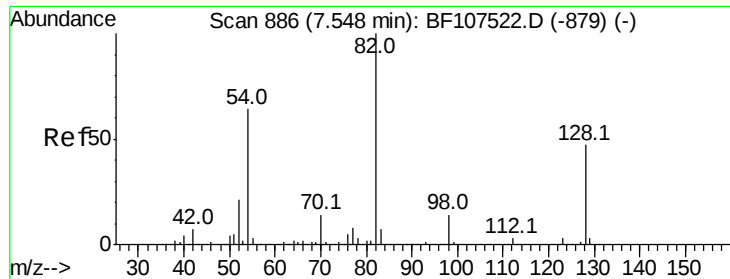
54 10.0 6.6 9.8#

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

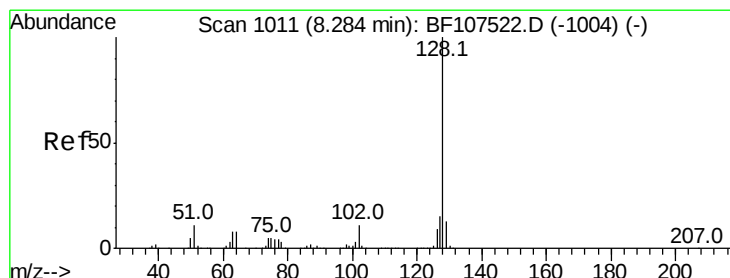
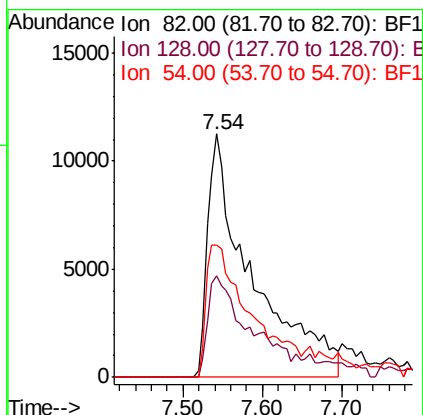
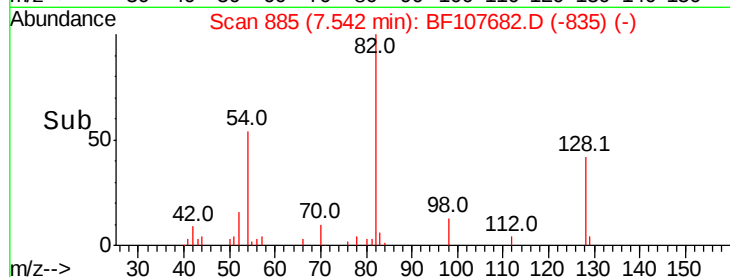
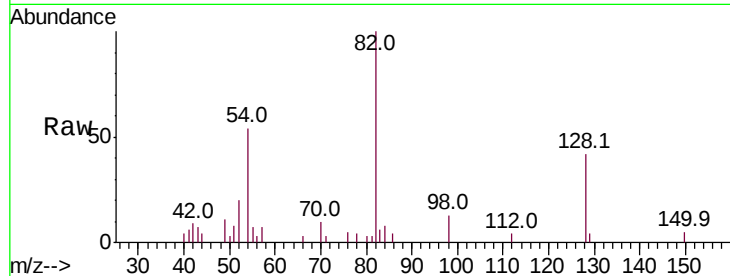




#23
 Nitrobenzene-d5
 Concen: 4.224 ng
 RT: 7.54 min Scan# 885
 Delta R.T. -0.01 min
 Lab File: BF107682.D
 Acq: 26 Jul 2018 3:41

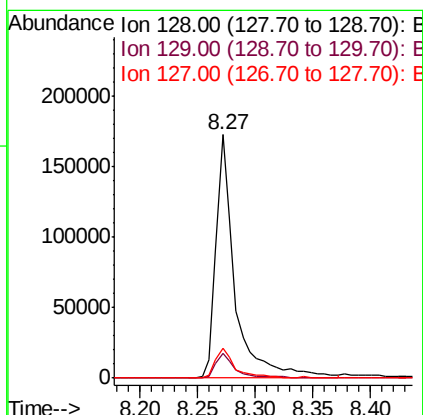
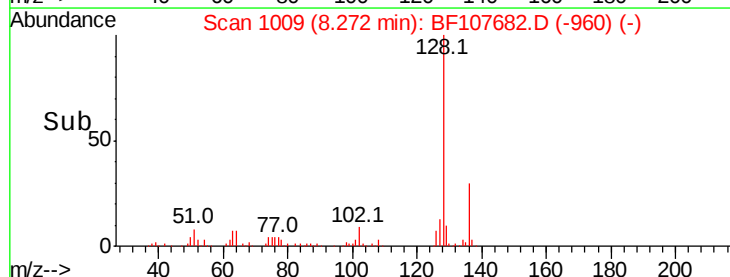
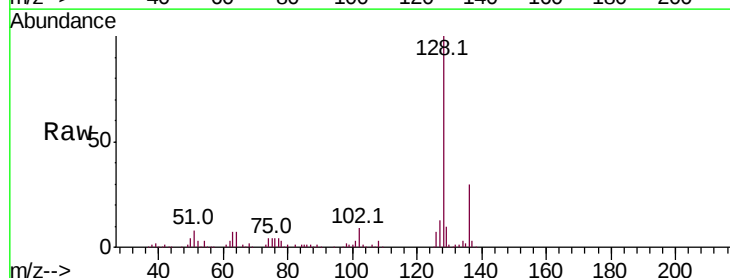
Instrument :
 BNA_F
 ClientSampled :

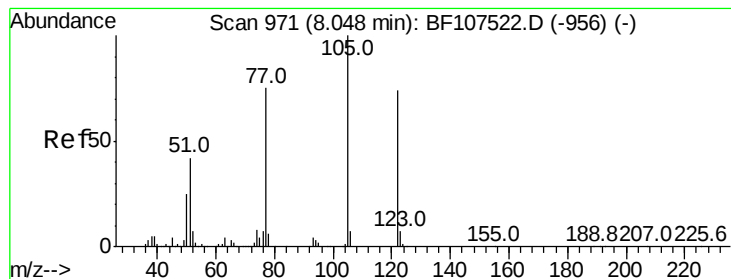
Tot Ion	Ratio	Lower	Upper
82	100		
128	41.7	36.1	54.1
54	54.3	41.4	62.2



#31
 Naphthalene
 Concen: 6.515 ng
 RT: 8.27 min Scan# 1009
 Delta R.T. -0.01 min
 Lab File: BF107682.D
 Acq: 26 Jul 2018 3:41

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.3	8.8	13.2
127	12.5	10.9	16.3





#32

Benzoic acid

Concen: 7.916 ng

RT: 8.28 min Scan# 1010

Delta R.T. 0.23 min

Lab File: BF107682.D

Acq: 26 Jul 2018 3:41

Instrument :

BNA_F

ClientSampleId :

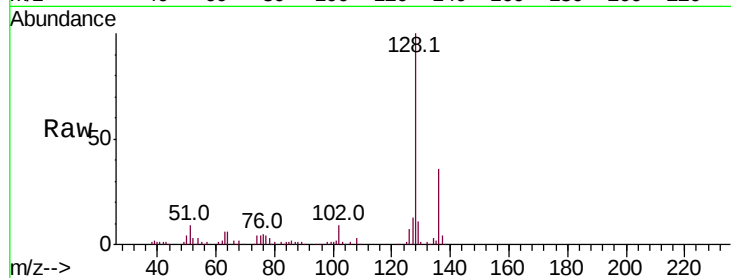
Tot Ion:122 Resp: 126

Ion Ratio Lower Upper

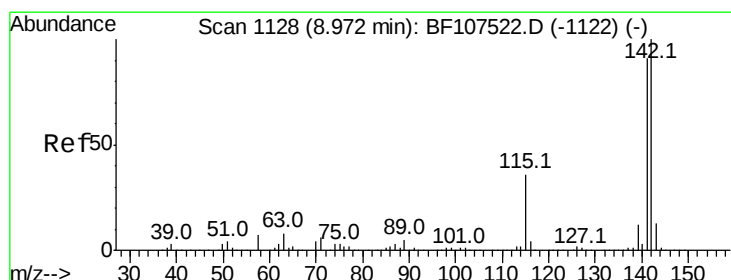
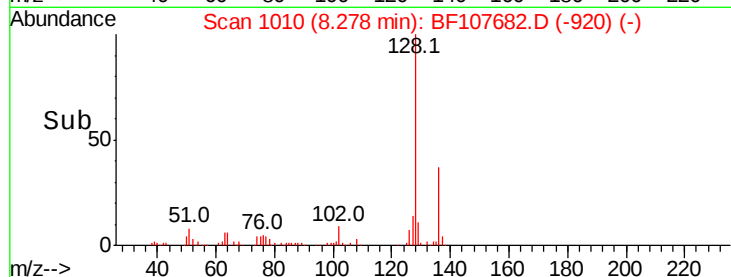
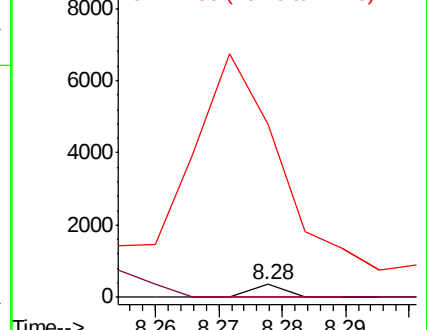
122 100

105 0.0 101.1 141.1#

77 1337.2 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: 2.018 ng

RT: 8.97 min Scan# 1127

Delta R.T. -0.01 min

Lab File: BF107682.D

Acq: 26 Jul 2018 3:41

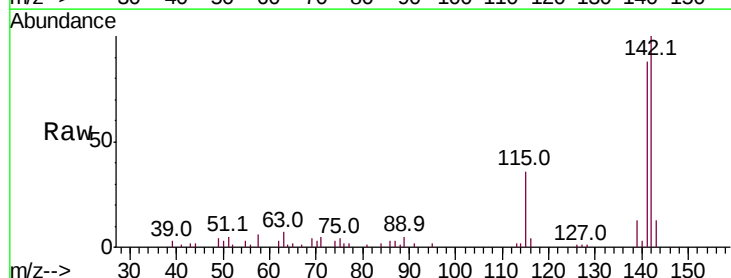
Tgt Ion:142 Resp: 42826

Ion Ratio Lower Upper

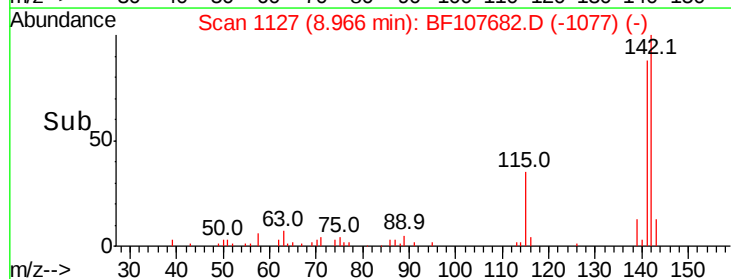
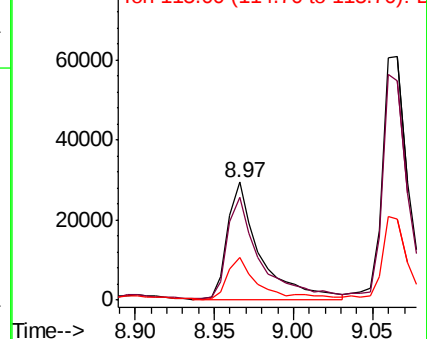
142 100

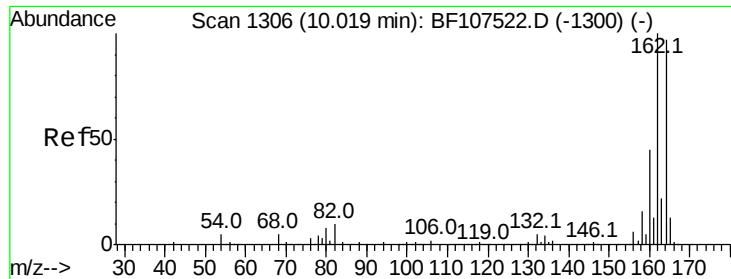
141 87.6 70.8 106.2

115 35.8 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

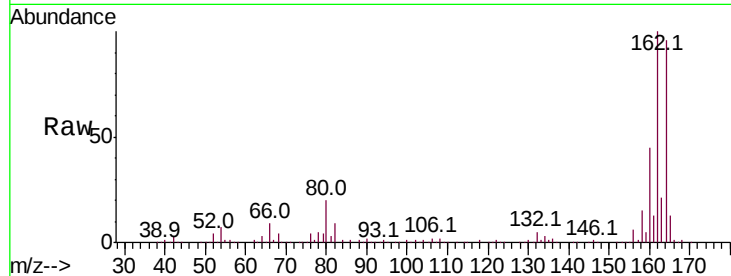




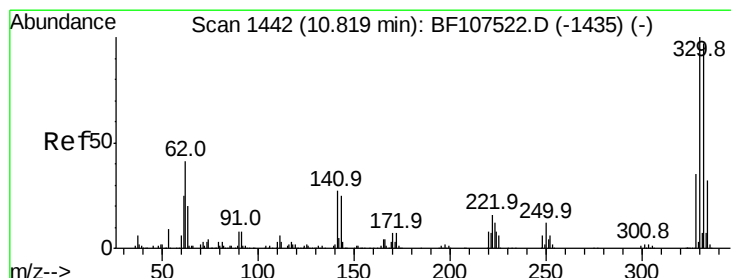
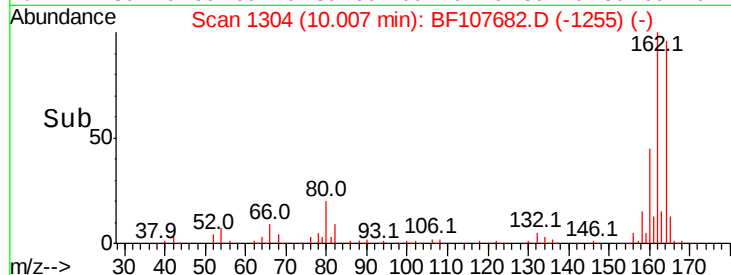
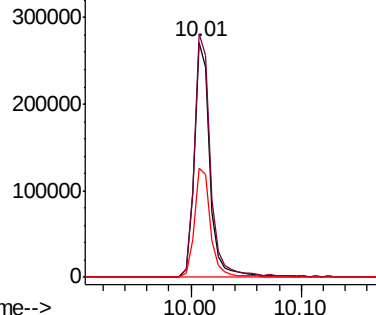
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.01 min Scan# 1304
Delta R.T. -0.01 min
Lab File: BF107682.D
Acq: 26 Jul 2018 3:41

Instrument :
BNA_F
ClientSampleId :

Tot Ion:164 Resp: 271810
Ion Ratio Lower Upper
164 100
162 103.8 86.1 129.1
160 46.3 38.3 57.5

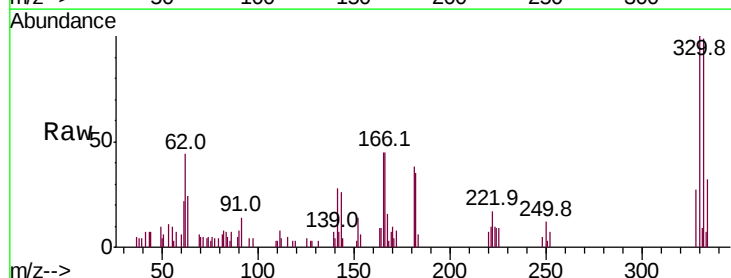


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

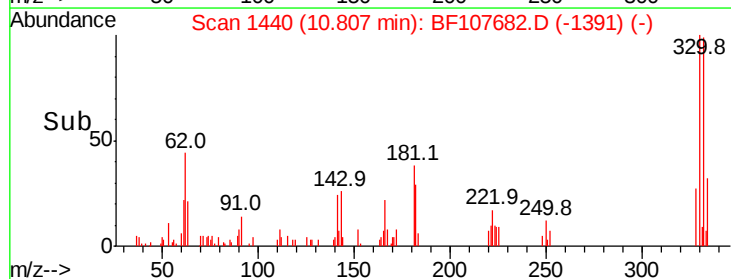
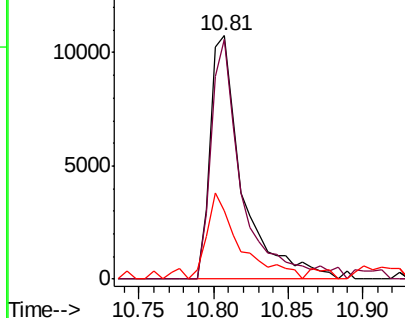


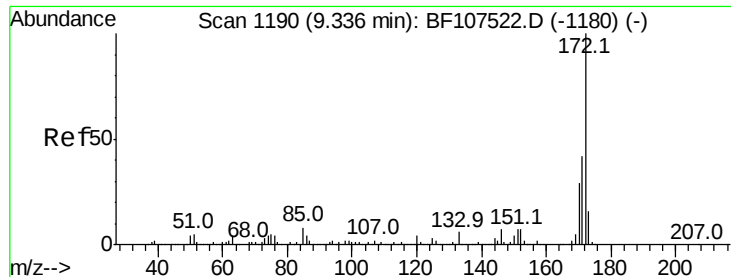
#41
2,4,6-Tribromophenol
Concen: 5.200 ng
RT: 10.81 min Scan# 1440
Delta R.T. -0.01 min
Lab File: BF107682.D
Acq: 26 Jul 2018 3:41

Tgt Ion:330 Resp: 16073
Ion Ratio Lower Upper
330 100
332 91.5 77.0 115.6
141 38.4 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

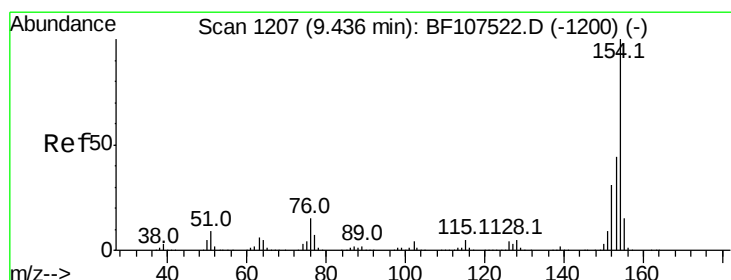
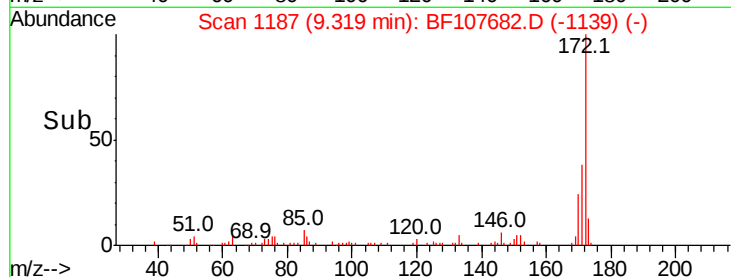
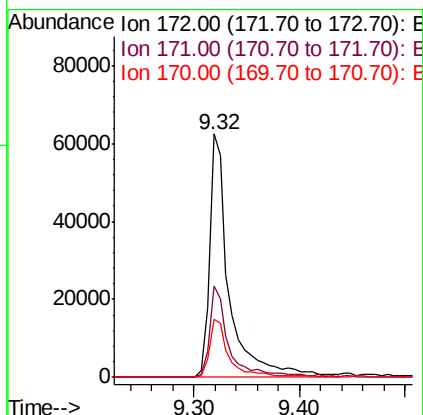
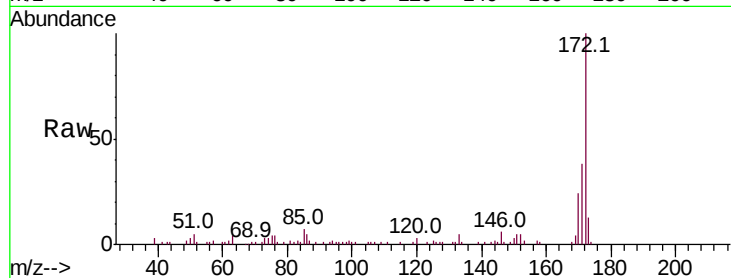




#44
2-Fluorobiphenyl
Concen: -1.000 ng
RT: 9.32 min Scan# 1187
Delta R.T. -0.02 min
Lab File: BF107682.D
Acq: 26 Jul 2018 3:41

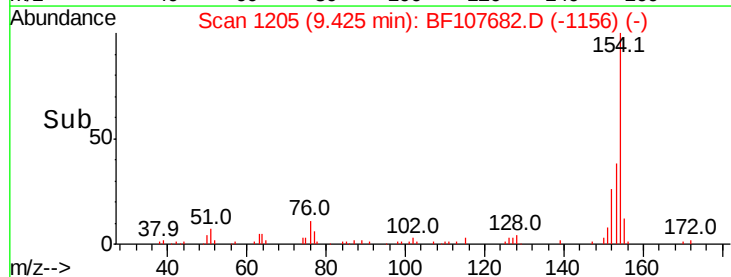
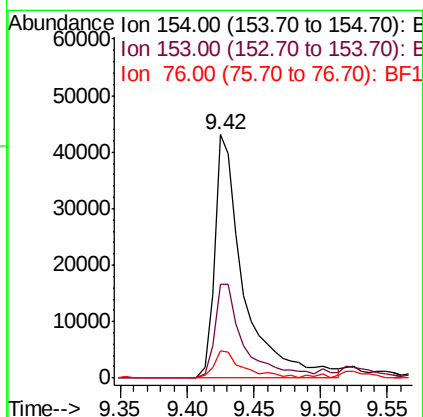
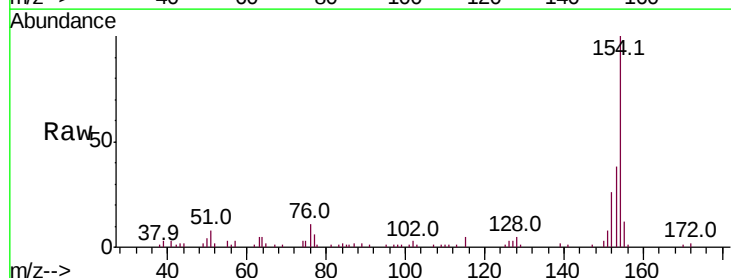
Instrument :
BNA_F
ClientSampleId :

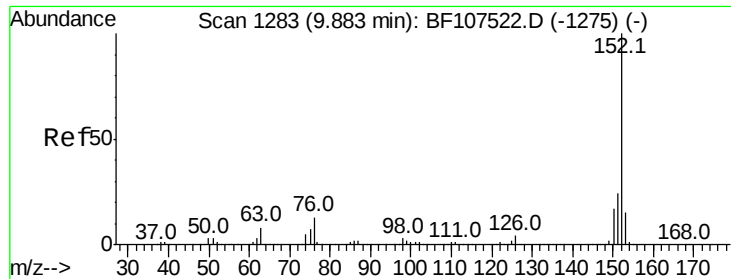
Tot Ion:172 Resp: 81963
Ion Ratio Lower Upper
172 100
171 37.8 29.7 44.5
170 23.8 19.6 29.4



#45
1,1'-Biphenyl
Concen: 2.771 ng
RT: 9.42 min Scan# 1205
Delta R.T. -0.01 min
Lab File: BF107682.D
Acq: 26 Jul 2018 3:41

Tgt Ion:154 Resp: 65611
Ion Ratio Lower Upper
154 100
153 38.3 21.3 61.3
76 11.2 0.0 34.0





#48

Acenaphthylene

Concen: 2.060 ng

RT: 9.87 min Scan# 1281

Delta R.T. -0.01 min

Lab File: BF107682.D

Acq: 26 Jul 2018 3:41

Instrument :

BNA_F

ClientSampleId :

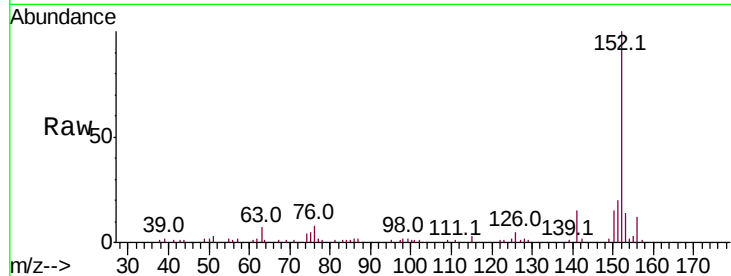
Tot Ion:152 Resp: 56020

Ion Ratio Lower Upper

152 100

151 20.4 16.3 24.5

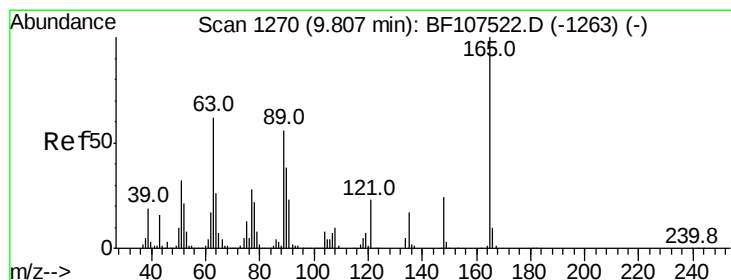
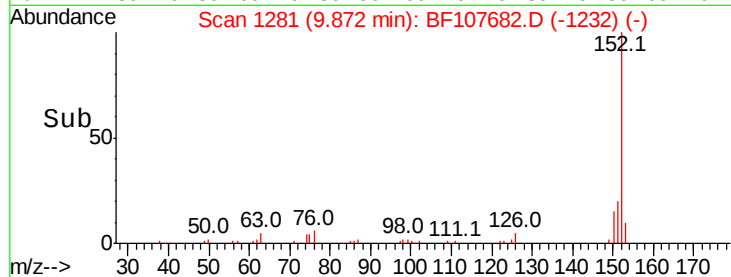
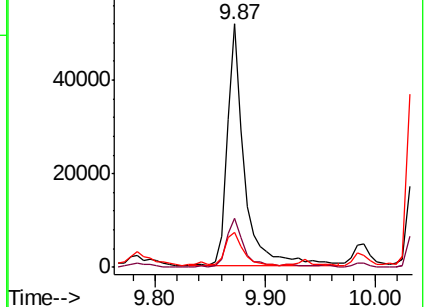
153 14.4 10.7 16.1



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: 9.384 ng

RT: 10.01 min Scan# 1304

Delta R.T. 0.20 min

Lab File: BF107682.D

Acq: 26 Jul 2018 3:41

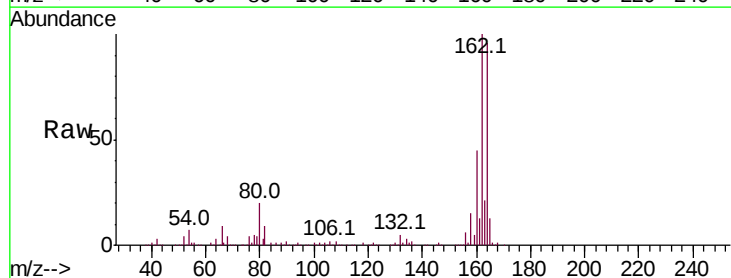
Tgt Ion:165 Resp: 38168

Ion Ratio Lower Upper

165 100

63 1.5 44.7 67.1#

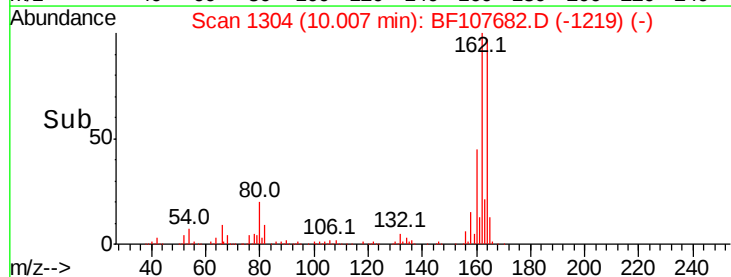
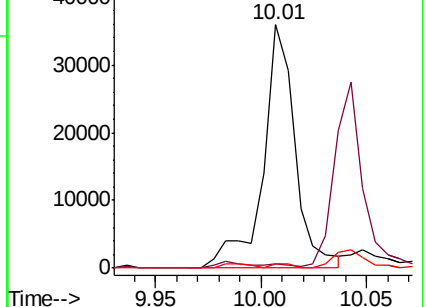
89 1.6 44.0 66.0#

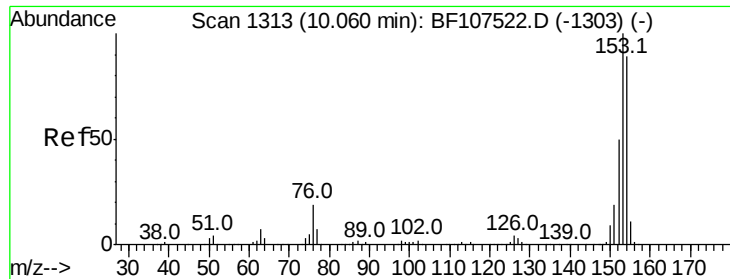


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1





#51

Acenaphthene

Concen: 17.853 ng

RT: 10.04 min Scan# 1310

Delta R.T. -0.02 min

Lab File: BF107682.D

Acq: 26 Jul 2018 3:41

Instrument :

BNA_F

ClientSampleId :

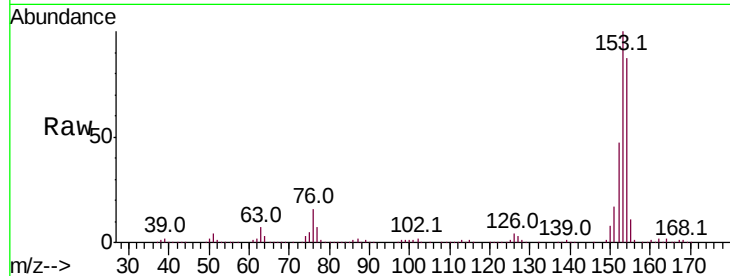
Tot Ion:154 Resp: 304115

Ion Ratio Lower Upper

154 100

153 115.1 91.2 136.8

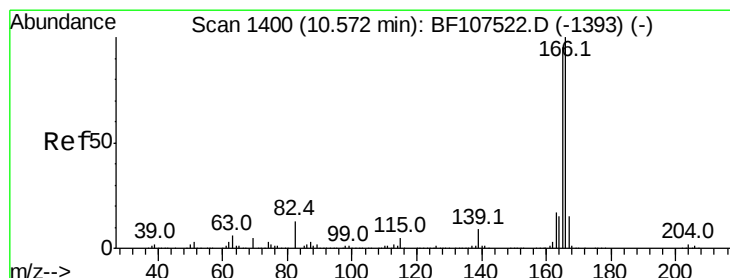
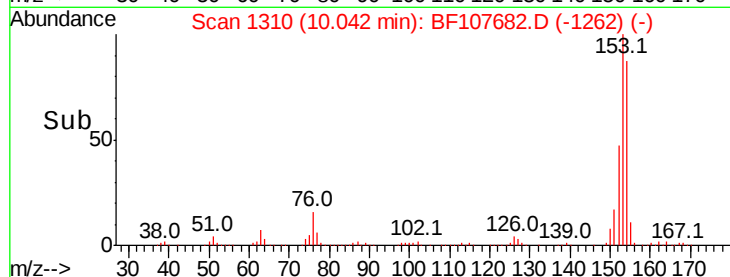
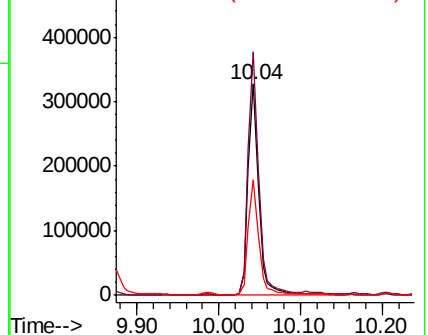
152 54.5 43.8 65.8



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: 9.350 ng

RT: 10.56 min Scan# 1398

Delta R.T. -0.01 min

Lab File: BF107682.D

Acq: 26 Jul 2018 3:41

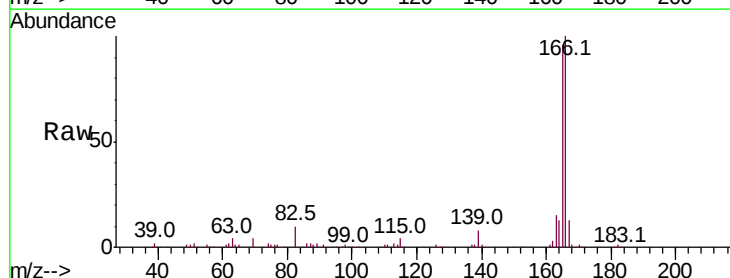
Tgt Ion:166 Resp: 167275

Ion Ratio Lower Upper

166 100

165 96.1 79.8 119.8

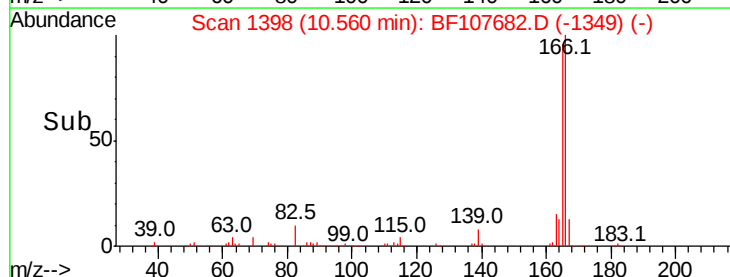
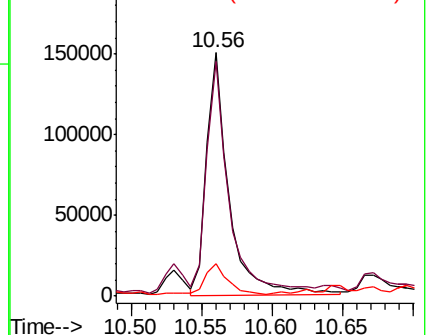
167 13.5 10.6 16.0

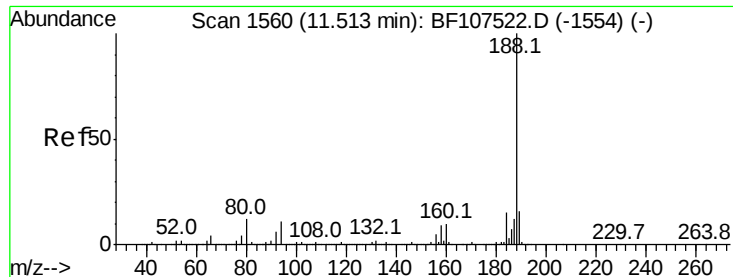


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

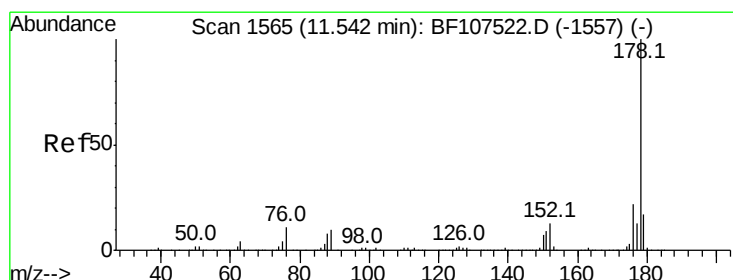
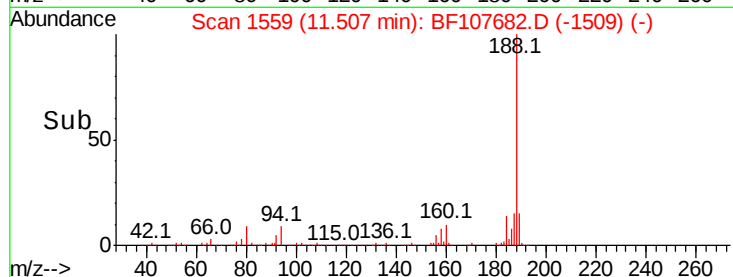
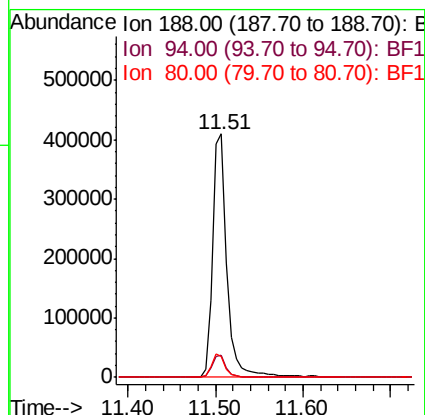
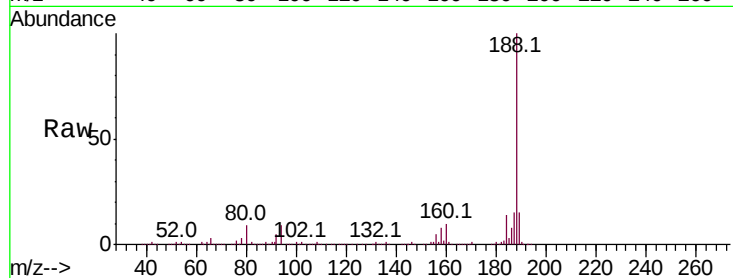




#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.51 min Scan# 1559
Delta R.T. -0.01 min
Lab File: BF107682.D
Acq: 26 Jul 2018 3:41

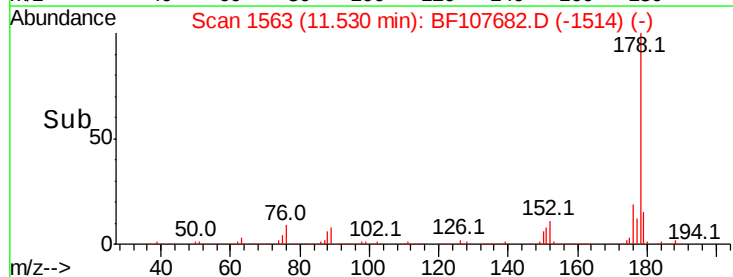
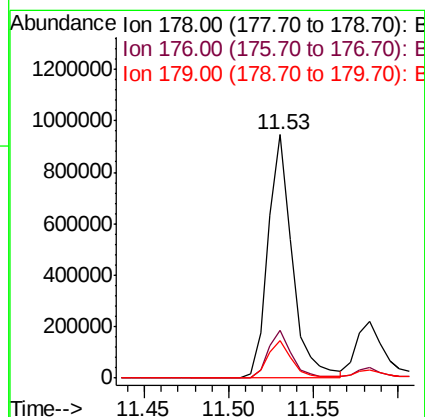
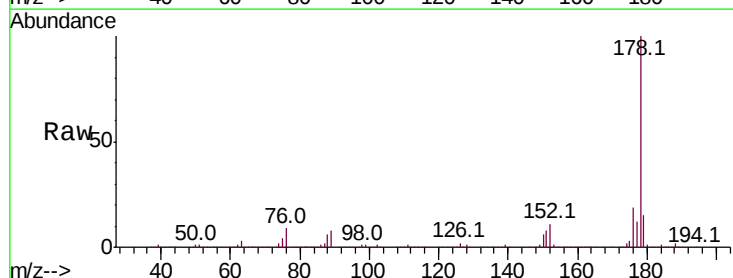
Instrument :
BNA_F
ClientSampled :

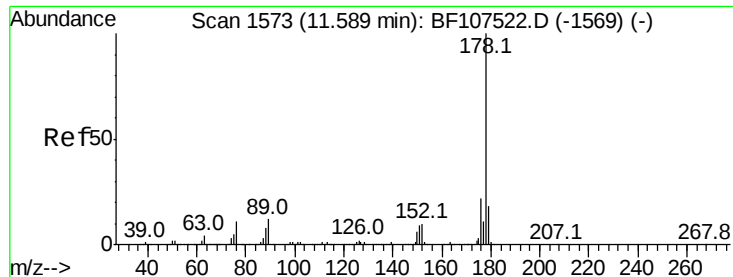
Tot Ion:188 Resp: 467466
Ion Ratio Lower Upper
188 100
94 8.9 8.5 12.7
80 8.7 9.2 13.8#



#70
Phenanthrene
Concen: 41.203 ng
RT: 11.53 min Scan# 1563
Delta R.T. -0.01 min
Lab File: BF107682.D
Acq: 26 Jul 2018 3:41

Tgt Ion:178 Resp: 938588
Ion Ratio Lower Upper
178 100
176 19.4 15.8 23.8
179 15.5 13.0 19.6

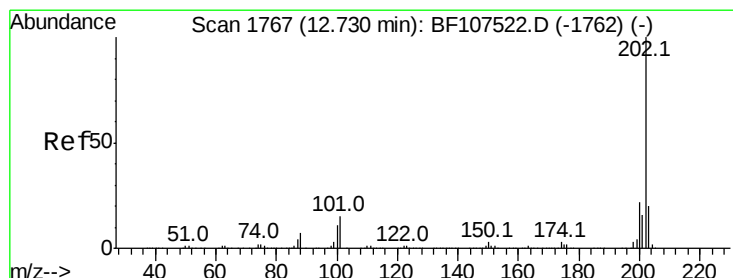
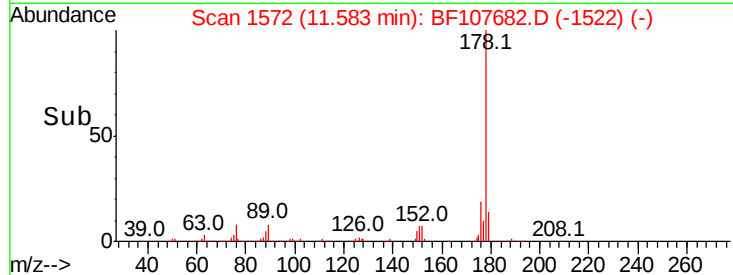
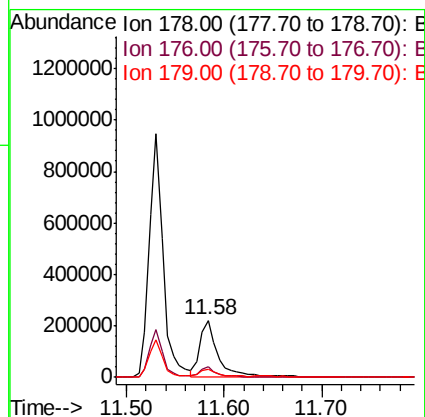
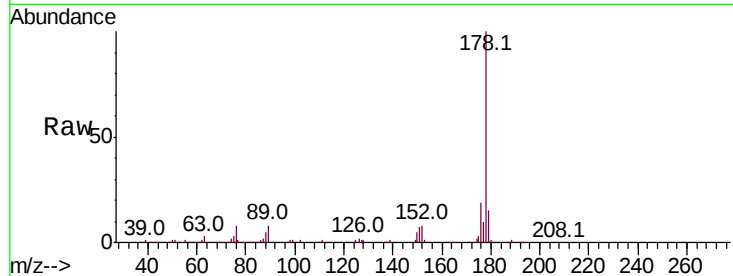




#71
 Anthracene
 Concen: 12.526 ng
 RT: 11.58 min Scan# 1572
 Delta R.T. -0.01 min
 Lab File: BF107682.D
 Acq: 26 Jul 2018 3:41

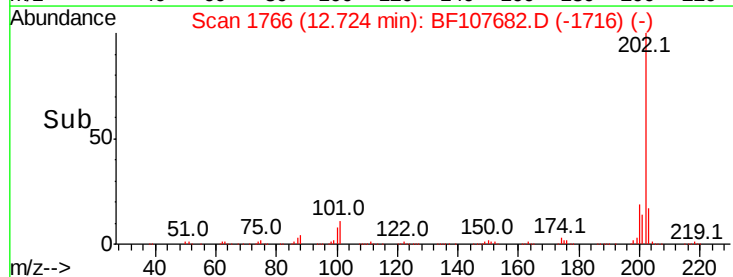
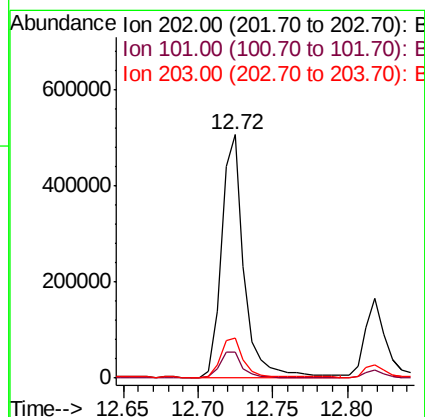
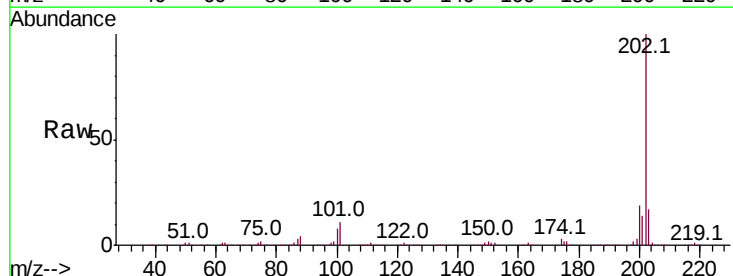
Instrument :
 BNA_F
 ClientSampleId :

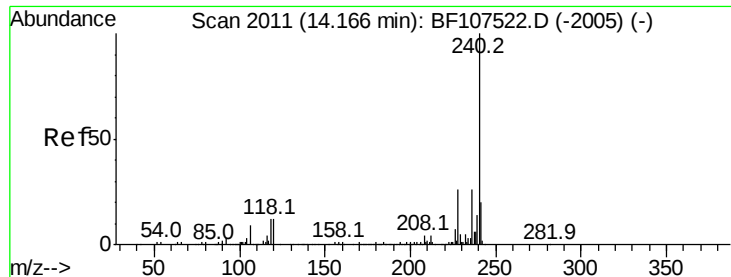
Tot Ion:178 Resp: 287284
 Ion Ratio Lower Upper
 178 100
 176 18.9 15.4 23.2
 179 14.8 12.6 19.0



#74
 Fluoranthene
 Concen: 21.991 ng
 RT: 12.72 min Scan# 1766
 Delta R.T. -0.01 min
 Lab File: BF107682.D
 Acq: 26 Jul 2018 3:41

Tgt Ion:202 Resp: 537557
 Ion Ratio Lower Upper
 202 100
 101 10.9 0.0 34.1
 203 16.7 0.0 38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.15 min Scan# 2009

Delta R.T. -0.01 min

Lab File: BF107682.D

Acq: 26 Jul 2018 3:41

Instrument :

BNA_F

ClientSampled :

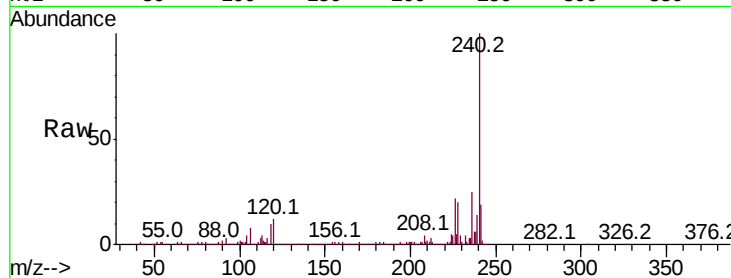
Tot Ion:240 Resp: 383886

Ion Ratio Lower Upper

240 100

120 11.8 9.5 14.3

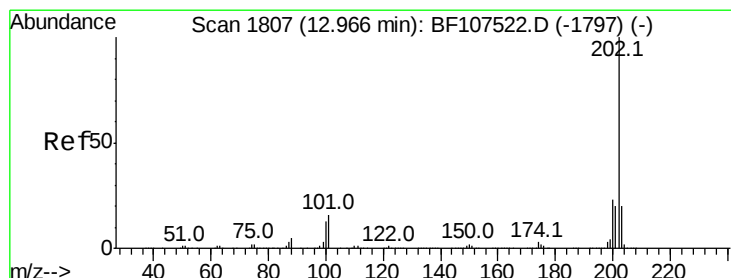
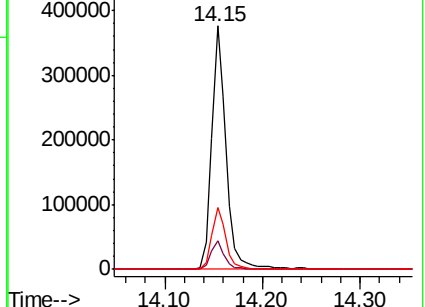
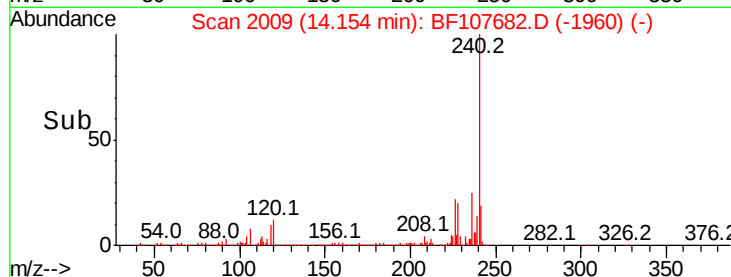
236 25.4 20.7 31.1



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: 28.092 ng

RT: 12.95 min Scan# 1805

Delta R.T. -0.01 min

Lab File: BF107682.D

Acq: 26 Jul 2018 3:41

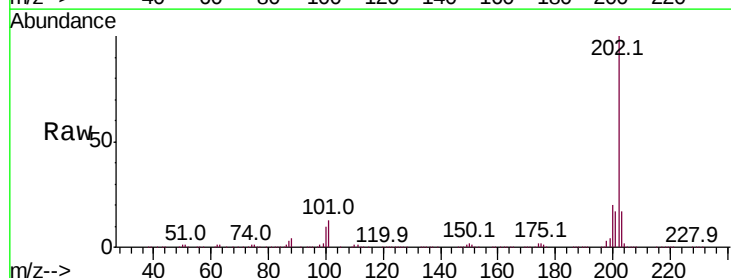
Tgt Ion:202 Resp: 737634

Ion Ratio Lower Upper

202 100

200 19.9 17.4 26.2

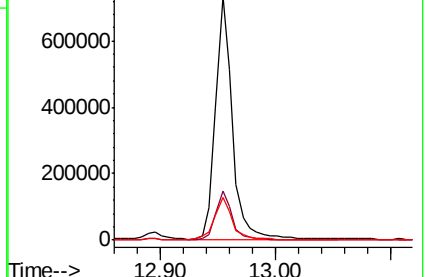
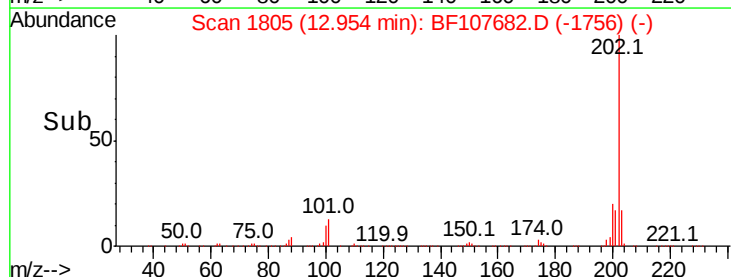
203 17.4 14.3 21.5

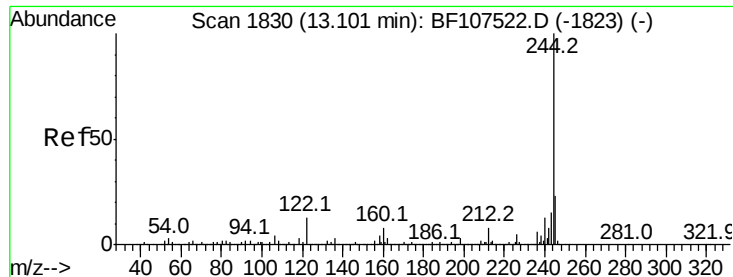


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 4.399 ng

RT: 13.08 min Scan# 1827

Delta R.T. -0.02 min

Lab File: BF107682.D

Acq: 26 Jul 2018 3:41

Instrument :

BNA_F

ClientSampleId :

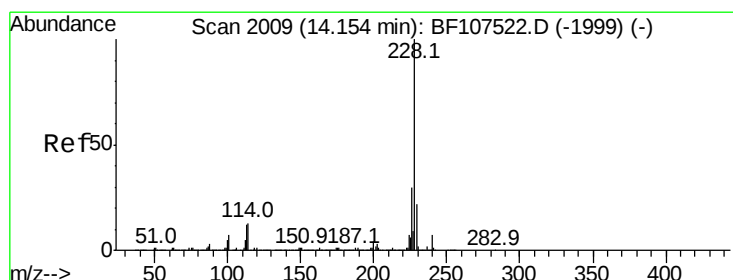
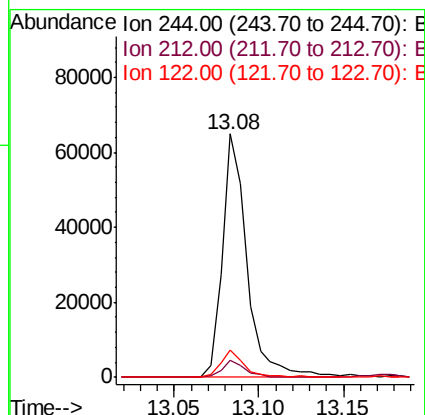
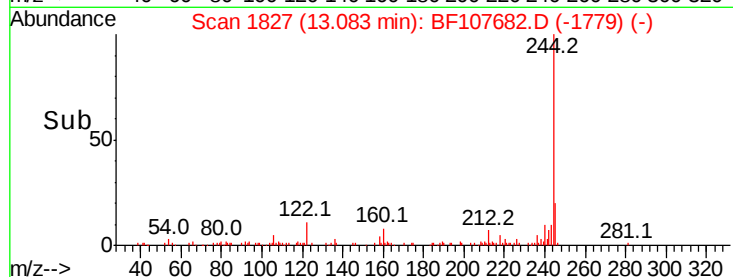
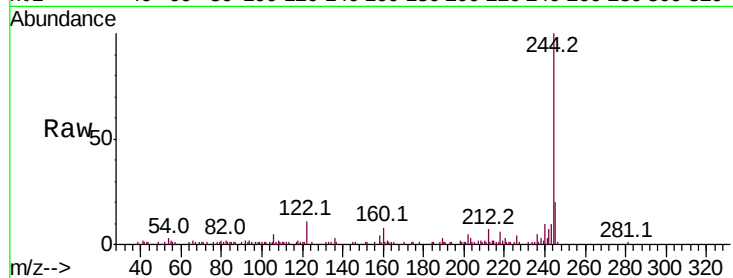
Tot Ion:244 Resp: 65961

Ion Ratio Lower Upper

244 100

212 7.0 5.4 8.0

122 11.0 11.0 16.4



#80

Benzo(a)anthracene

Concen: 8.905 ng

RT: 14.18 min Scan# 2014

Delta R.T. 0.03 min

Lab File: BF107682.D

Acq: 26 Jul 2018 3:41

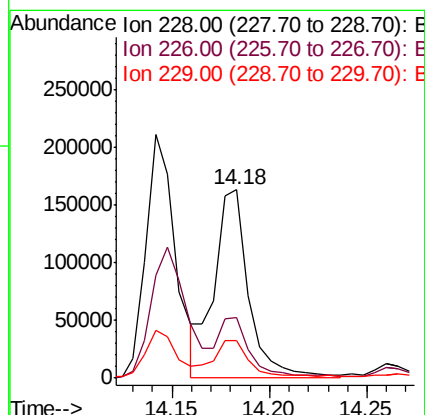
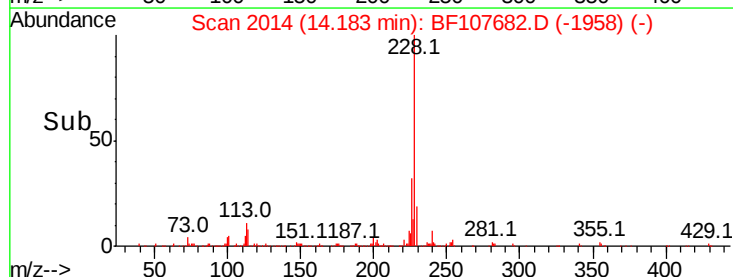
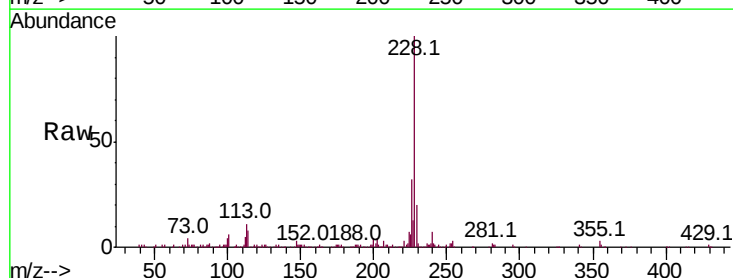
Tgt Ion:228 Resp: 200326

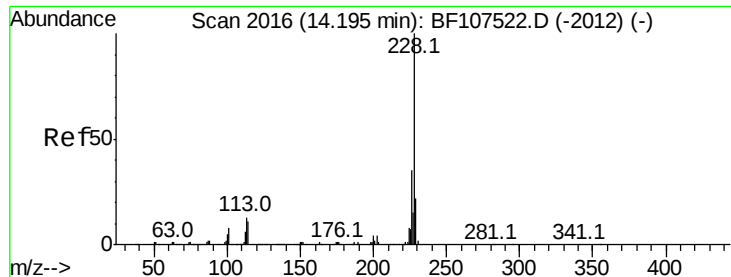
Ion Ratio Lower Upper

228 100

226 32.4 22.6 33.8

229 20.2 15.8 23.6

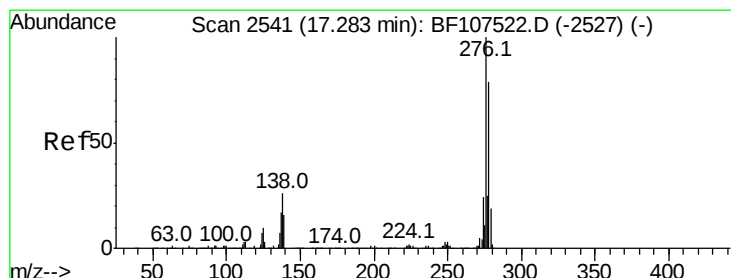
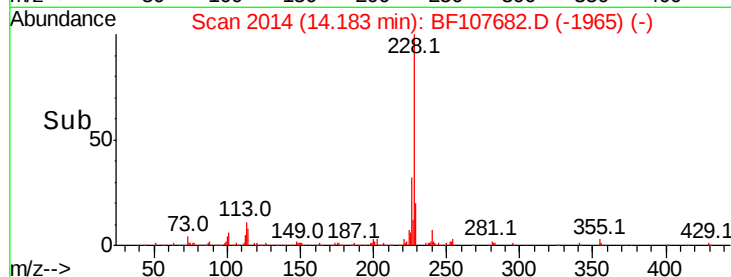
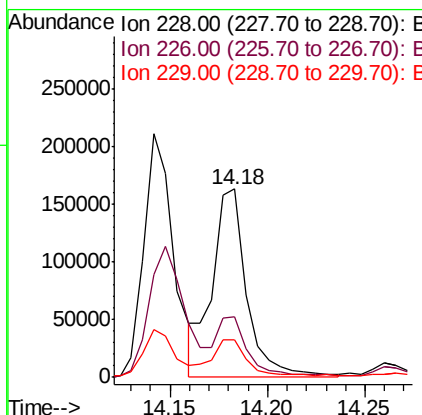
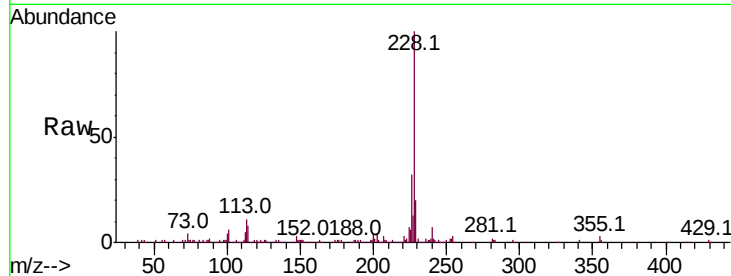




#82
Chrysene
Concen: 9.270 ng
RT: 14.18 min Scan# 2014
Delta R.T. -0.01 min
Lab File: BF107682.D
Acq: 26 Jul 2018 3:41

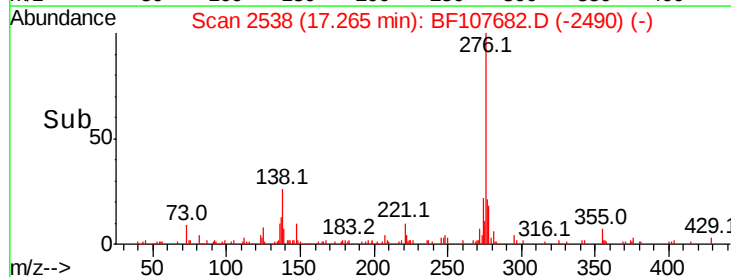
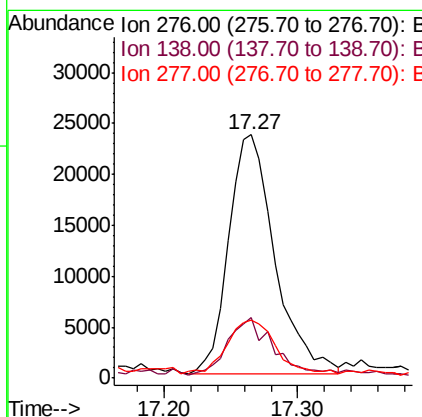
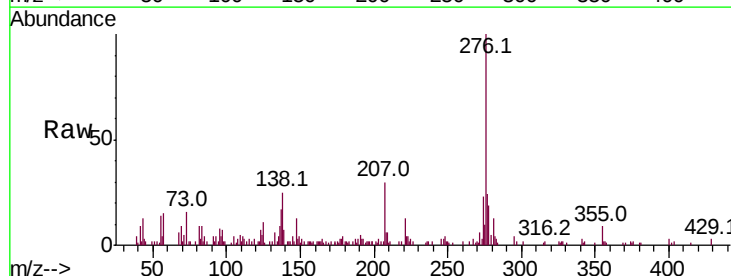
Instrument :
BNA_F
ClientSampled :

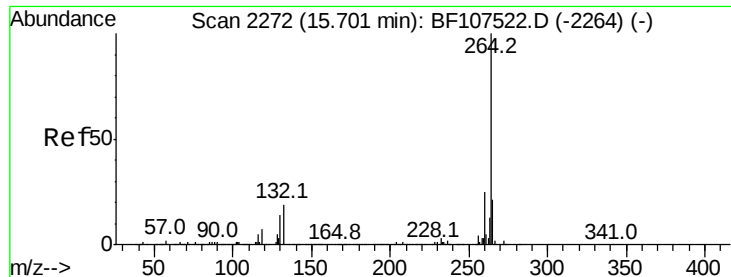
Tot Ion	Ratio	Lower	Upper
228	100		
226	32.4	25.0	37.6
229	20.2	16.2	24.4



#85
Indeno(1,2,3-cd)pyrene
Concen: 3.075 ng
RT: 17.27 min Scan# 2538
Delta R.T. -0.02 min
Lab File: BF107682.D
Acq: 26 Jul 2018 3:41

Tgt Ion	Ratio	Lower	Upper
276	100		
138	23.1	25.0	37.6#
277	24.5	20.1	30.1

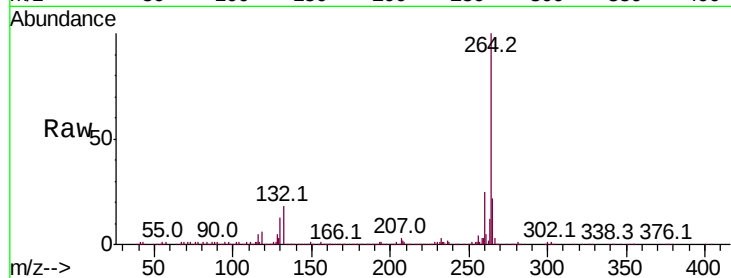




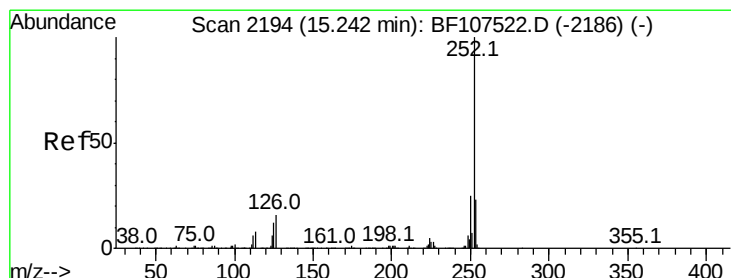
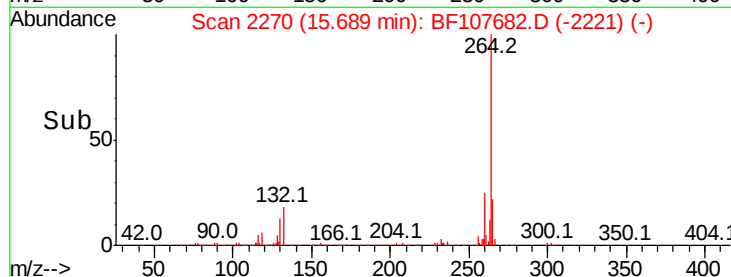
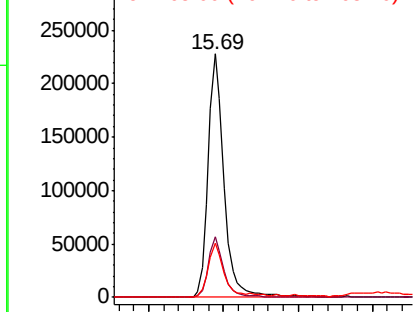
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.69 min Scan# 2270
Delta R.T. -0.01 min
Lab File: BF107682.D
Acq: 26 Jul 2018 3:41

Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 337252
Ion Ratio Lower Upper
264 100
260 24.8 19.2 28.8
265 22.1 17.5 26.3

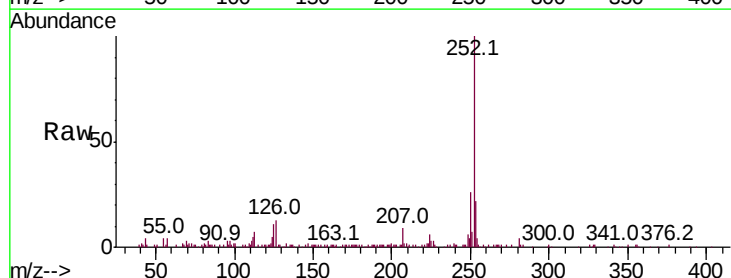


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

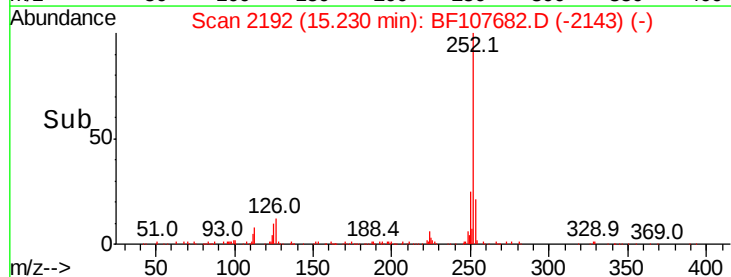
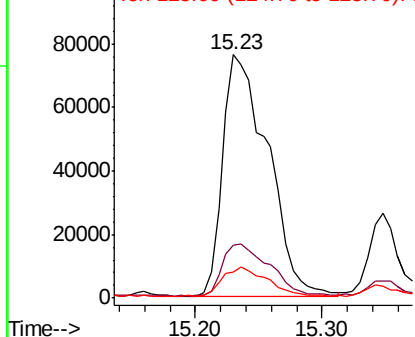


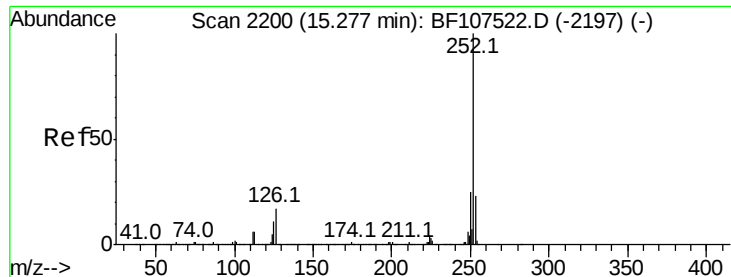
#87
Benzo(b)fluoranthene
Concen: 10.240 ng
RT: 15.23 min Scan# 2192
Delta R.T. -0.01 min
Lab File: BF107682.D
Acq: 26 Jul 2018 3:41

Tgt Ion:252 Resp: 188998
Ion Ratio Lower Upper
252 100
253 21.7 17.0 25.6
125 10.9 9.0 13.6



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





#88

Benzo(k)fluoranthene

Concen: 10.452 ng

RT: 15.23 min Scan# 2192

Delta R.T. -0.05 min

Lab File: BF107682.D

Acq: 26 Jul 2018 3:41

Instrument :

BNA_F

ClientSampleId :

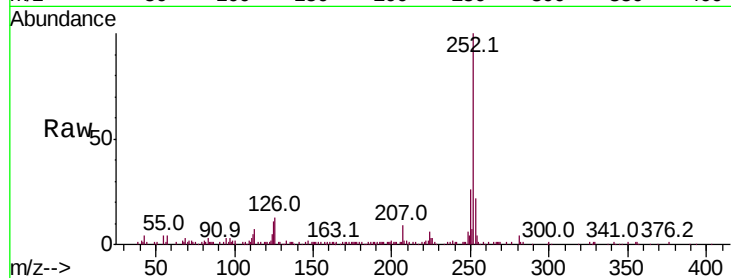
Tot Ion:252 Resp: 188998

Ion Ratio Lower Upper

252 100

253 21.7 17.9 26.9

125 10.9 10.2 15.2

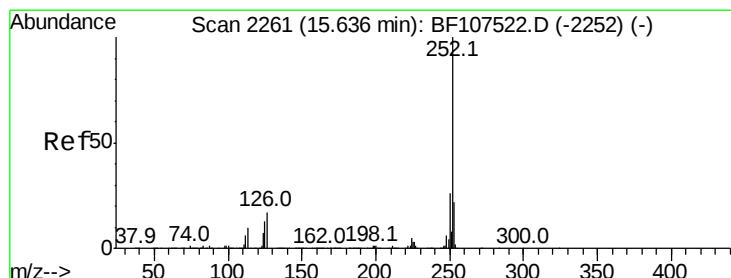
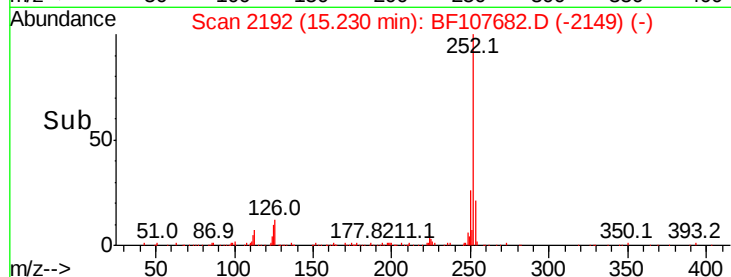
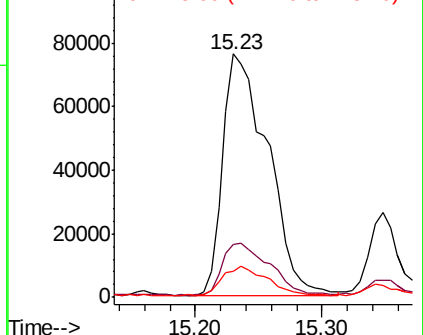


Abundance

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



#89

Benzo(a)pyrene

Concen: 9.490 ng

RT: 15.62 min Scan# 2258

Delta R.T. -0.02 min

Lab File: BF107682.D

Acq: 26 Jul 2018 3:41

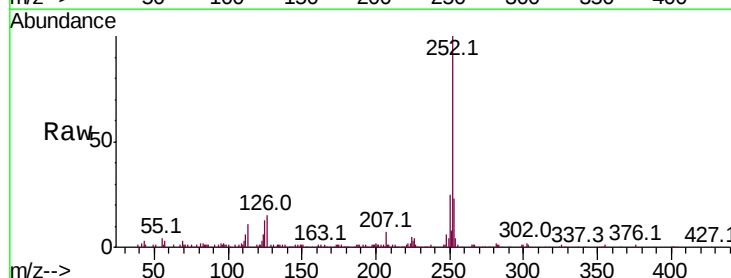
Tgt Ion:252 Resp: 160231

Ion Ratio Lower Upper

252 100

253 22.7 17.1 25.7

125 12.6 9.8 14.6

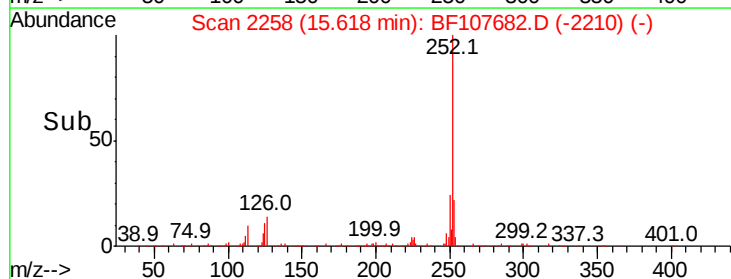
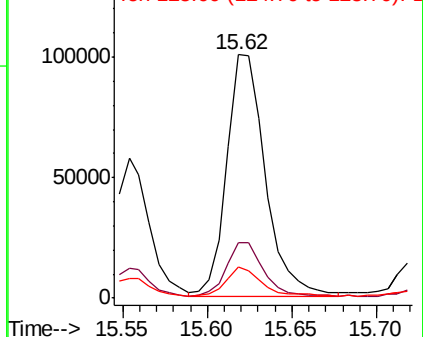


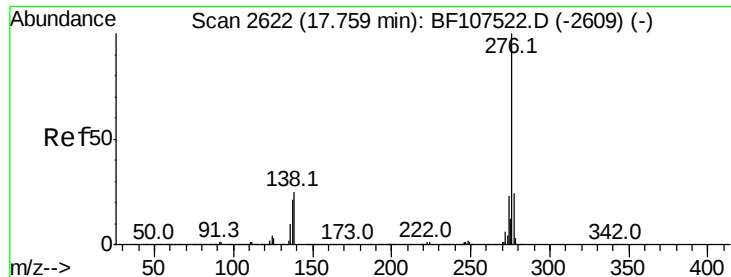
Abundance

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(a,h,i)perylene

Concen: 4.243 ng

RT: 17.74 min Scan# 2619

Delta R.T. -0.02 min

Lab File: BF107682.D

Acq: 26 Jul 2018 3:41

Instrument :

BNA_F

ClientSampleId :

Tot Ion:276 Resp: 61084

Ion Ratio Lower Upper

276 100

277 26.5 17.9 26.9

138 24.5 21.8 32.8

