

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061318\
 Data File : BF106418.D
 Acq On : 14 Jun 2018 3:56
 Operator : JU/SJ
 Sample : J3446-01
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jun 14 06:50:35 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061118.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 13 10:51:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	138291	20.00	ng	-0.01
21) Naphthalene-d8	8.25	136	523903	20.00	ng	-0.01
38) Acenaphthene-d10	10.01	164	248268	20.00	ng	-0.01
63) Phenanthrene-d10	11.50	188	454896	20.00	ng	-0.01
75) Chrysene-d12	14.14	240	356590	20.00	ng	-0.02
86) Perylene-d12	15.67	264	355382	20.00	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.61	112	819413	100.29	ng	-0.02
7) Phenol-d6	6.61	99	1017929	98.61	ng	-0.02
23) Nitrobenzene-d5	7.52	82	666602	74.85	ng	-0.01
41) 2,4,6-Tribromophenol	10.80	330	275758	115.44	ng	-0.01
44) 2-Fluorobiphenyl	9.32	172	1098708	75.93	ng	0.00
78) Terphenyl-d14	13.08	244	1008692	70.26	ng	0.00

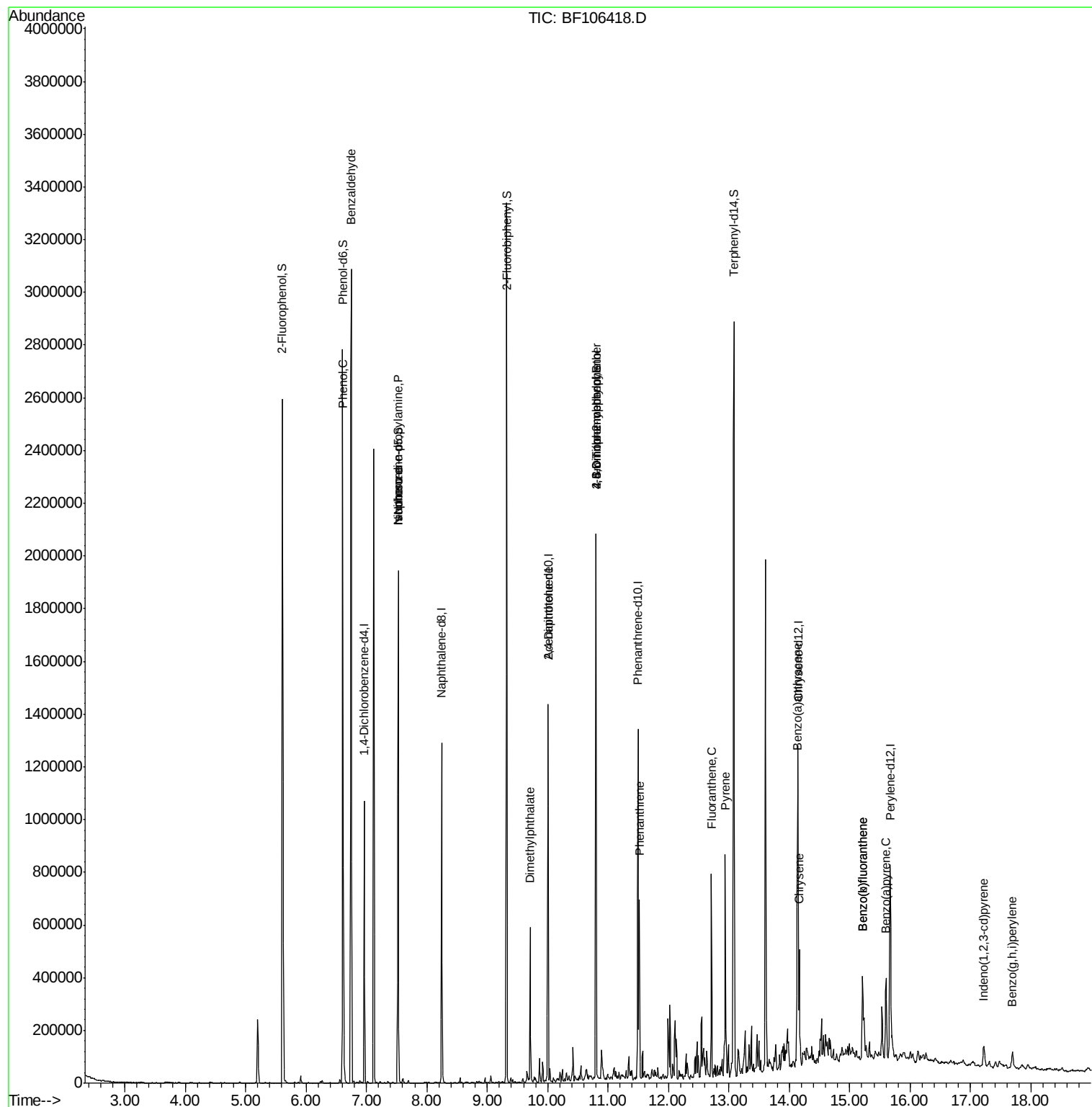
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.75	77	18477	2.360	ng	86
10) Phenol	6.62	94	28087	2.492	ng	# 47
19) n-Nitroso-di-n-propylamine	7.52	70	89605	11.570	ng	# 76
25) Isophorone	7.52	82	666593	38.322	ng	# 64
49) Dimethylphthalate	9.71	163	203798	11.490	ng	99
56) 2,4-Dinitrotoluene	10.01	165	33108	7.277	ng	# 23
64) 4,6-Dinitro-2-methylphenol	10.80	198	562	6.494	ng	# 1
66) 4-Bromophenyl-phenylether	10.80	248	18354	3.547	ng	# 1
70) Phenanthrene	11.52	178	216056	9.698	ng	97
74) Fluoranthene	12.71	202	284815	11.988	ng	97
77) Pyrene	12.94	202	311389	13.948	ng	100
80) Benzo(a)anthracene	14.13	228	175011	8.247	ng	95
82) Chrysene	14.17	228	166781	8.608	ng	97
85) Indeno(1,2,3-cd)pyrene	17.22	276	50786	3.284	ng	94
87) Benzo(b)fluoranthene	15.21	252	239364	11.142	ng	96
88) Benzo(k)fluoranthene	15.21	252	239364	11.251	ng	# 96
89) Benzo(a)pyrene	15.60	252	133908	6.930	ng	96
91) Benzo(a,h,i)perylene	17.69	276	55398	3.539	ng	# 88

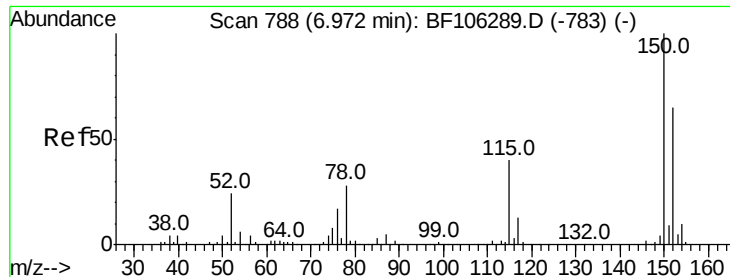
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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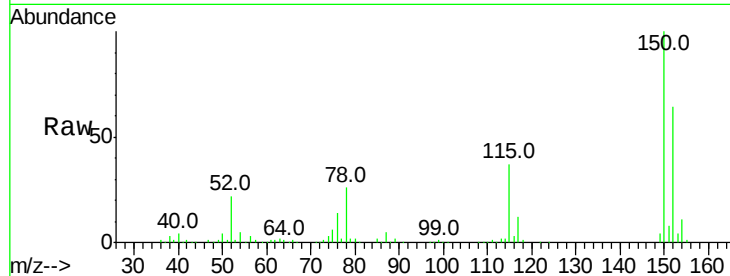


#1

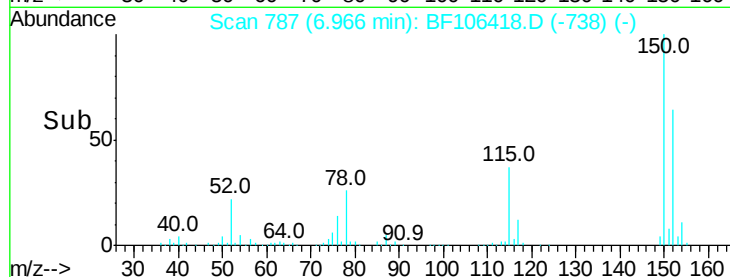
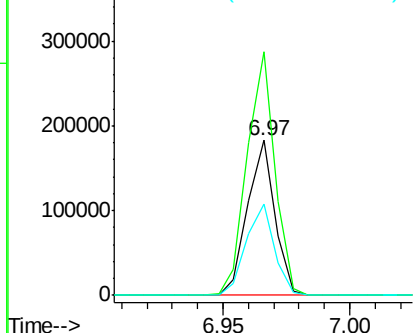
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.97 min Scan# 787
Delta R.T. -0.01 min
Lab File: BF106418.D
Acq: 14 Jun 2018 3:56

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.9	124.6	186.8
115	58.8	50.1	75.1



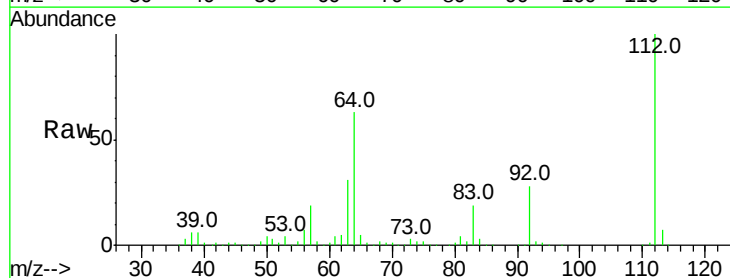
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



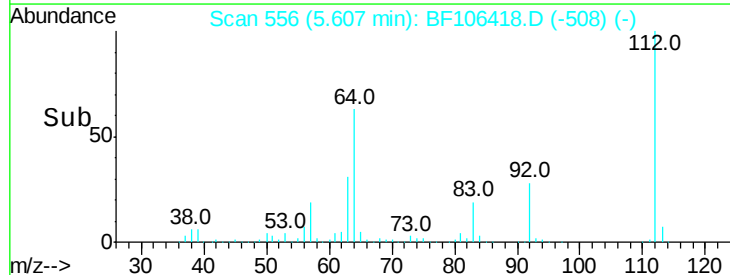
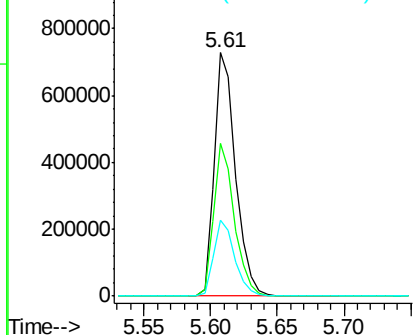
#5

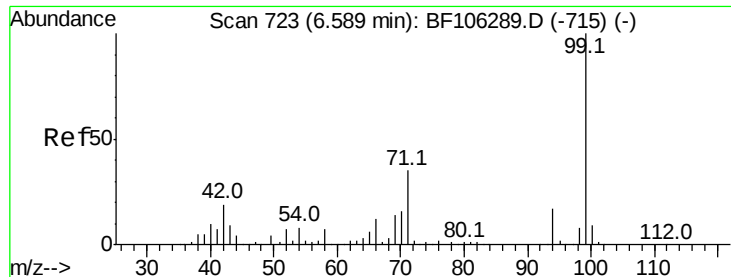
2-Fluorophenol
Concen: 100.285 ng
RT: 5.61 min Scan# 556
Delta R.T. -0.02 min
Lab File: BF106418.D
Acq: 14 Jun 2018 3:56

Tgt Ion	Ratio	Lower	Upper
112	100		
64	62.5	47.9	71.9
63	31.3	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: 98.607 ng

RT: 6.61 min Scan# 726

Delta R.T. -0.02 min

Lab File: BF106418.D

Acq: 14 Jun 2018 3:56

Instrument :

BNA_F

ClientSampleId :

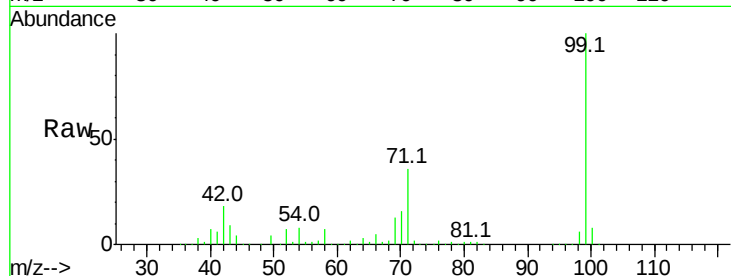
Tot Ion: 99 Resp: 1017929

Ion Ratio Lower Upper

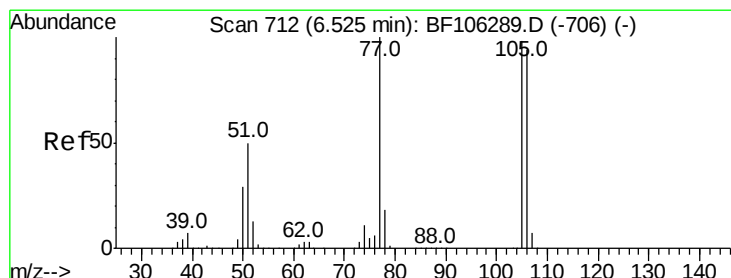
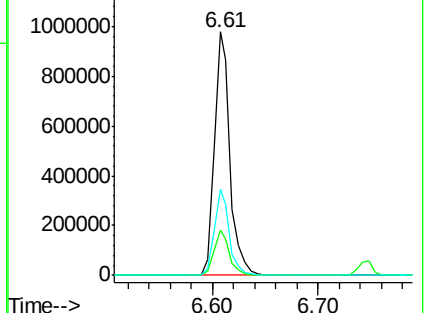
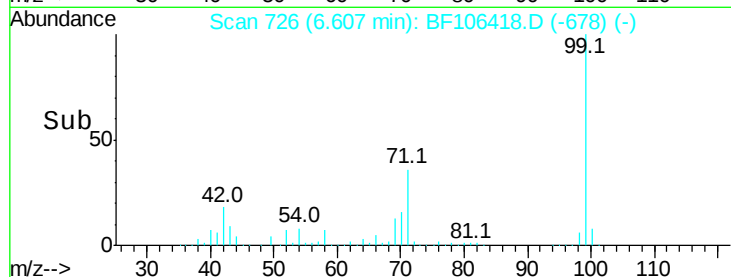
99 100

42 18.4 14.5 21.7

71 35.6 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



#9

Benzaldehyde

Concen: 2.360 ng

RT: 6.75 min Scan# 750

Delta R.T. 0.22 min

Lab File: BF106418.D

Acq: 14 Jun 2018 3:56

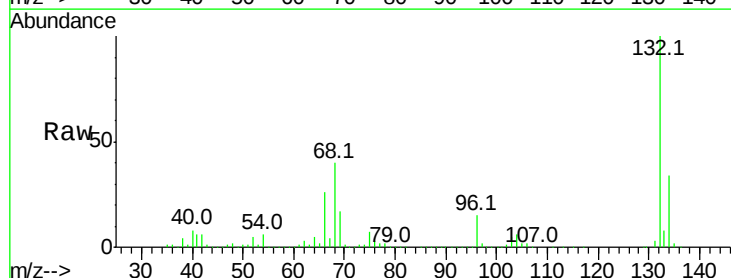
Tgt Ion: 77 Resp: 18477

Ion Ratio Lower Upper

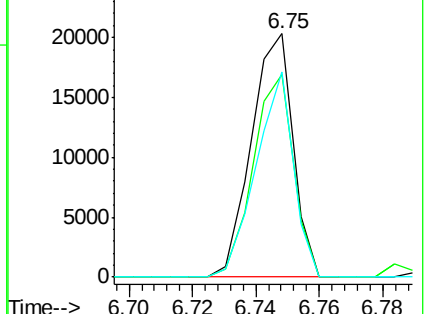
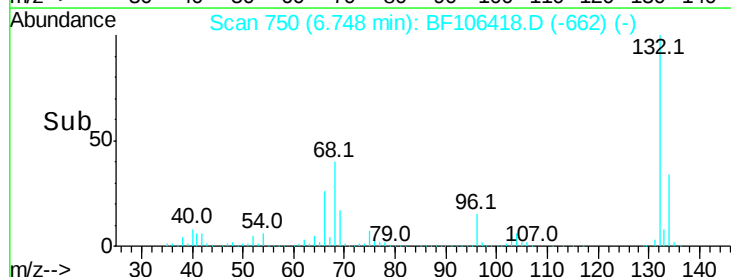
77 100

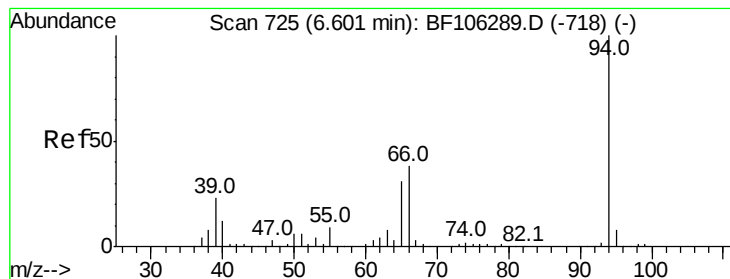
105 83.4 81.1 121.1

106 84.3 74.5 114.5



Abundance Ion 77.00 (76.70 to 77.70): BF1
Ion 105.00 (104.70 to 105.70): BF1
Ion 106.00 (105.70 to 106.70): BF1





#10

Phenol

Concen: 2.492 ng

RT: 6.62 min Scan# 728

Delta R.T. -0.02 min

Lab File: BF106418.D

Acq: 14 Jun 2018 3:56

Instrument :

BNA_F

ClientSampled :

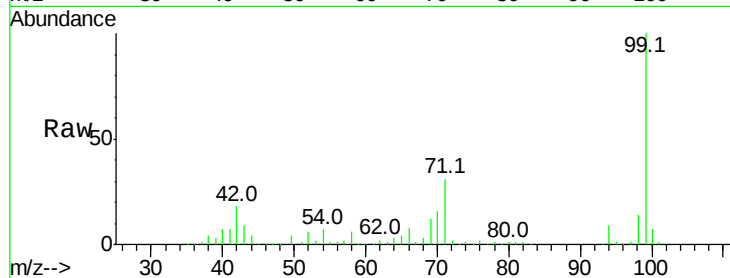
Tot Ion: 94 Resp: 28087

Ion Ratio Lower Upper

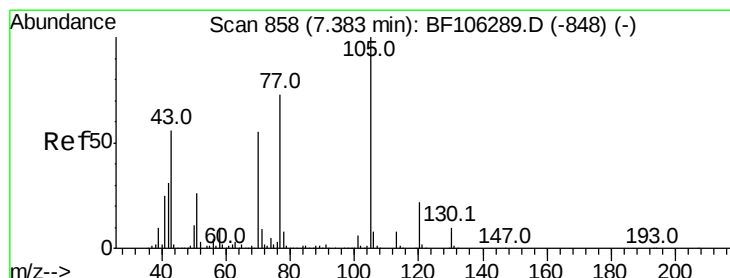
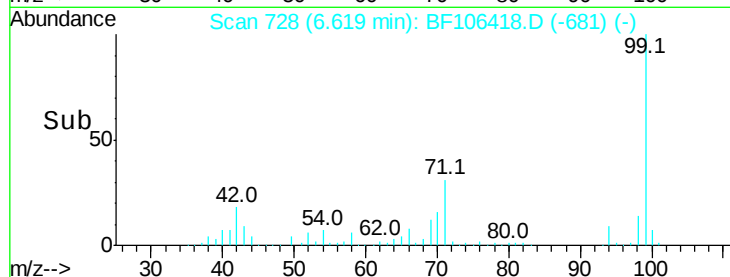
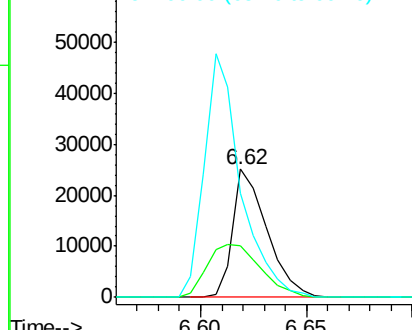
94 100

65 40.0 7.9 47.9

66 81.3 16.2 56.2#



Abundance Ion 94.00 (93.70 to 94.70): BF1
Ion 65.00 (64.70 to 65.70): BF1
Ion 66.00 (65.70 to 66.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 11.570 ng

RT: 7.52 min Scan# 882

Delta R.T. 0.15 min

Lab File: BF106418.D

Acq: 14 Jun 2018 3:56

Tgt Ion: 70 Resp: 89605

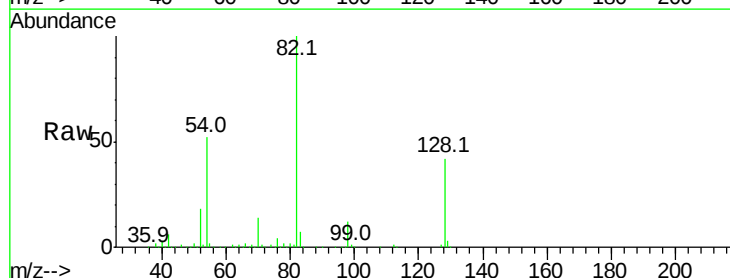
Ion Ratio Lower Upper

70 100

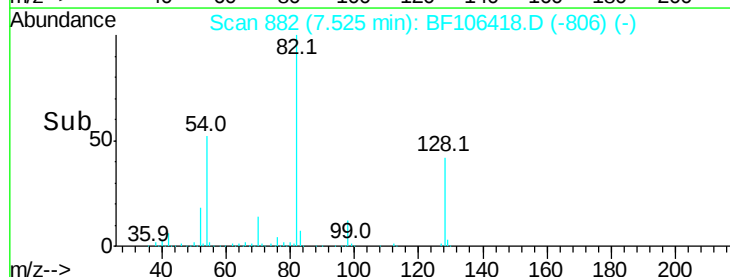
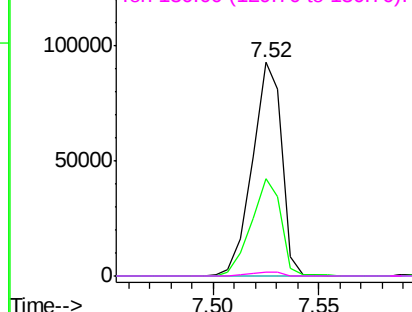
42 45.7 47.5 71.3#

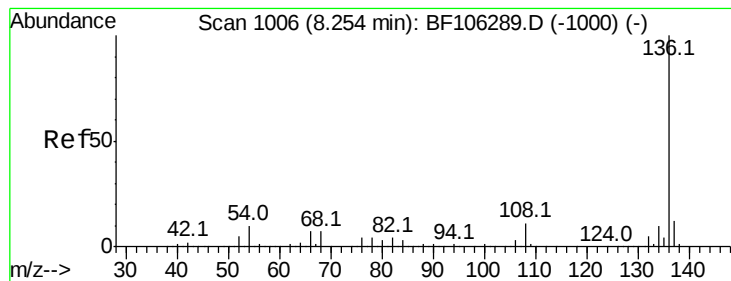
101 0.0 7.4 11.2#

130 2.1 16.6 25.0#



Abundance Ion 70.00 (69.70 to 70.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 101.00 (100.70 to 101.70): BF1
Ion 130.00 (129.70 to 130.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.25 min Scan# 1005

Delta R.T. -0.01 min

Lab File: BF106418.D

Acq: 14 Jun 2018 3:56

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 523903

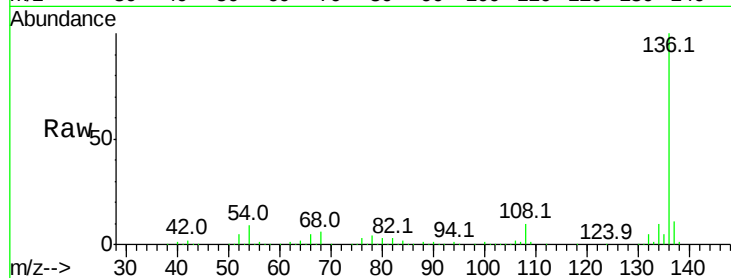
Ion Ratio Lower Upper

136 100

137 11.4 8.9 13.3

54 8.5 6.6 9.8

68 6.4 5.0 7.4

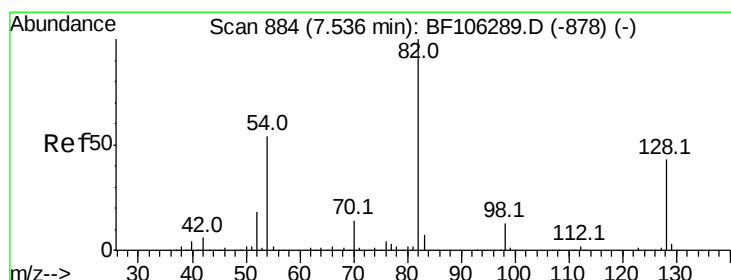
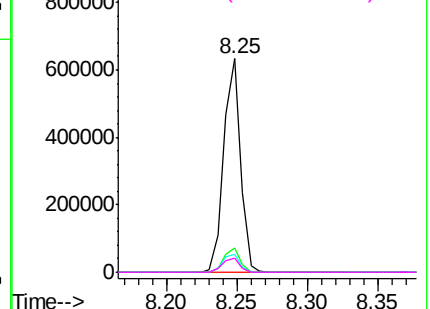
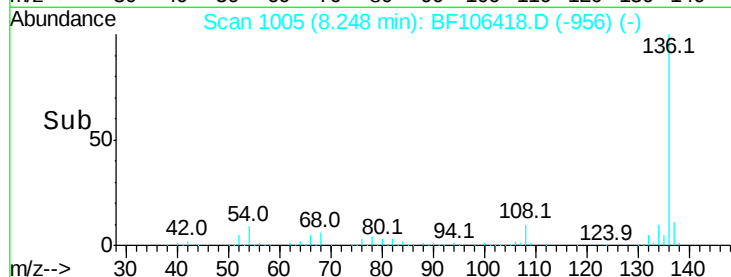


Abundance Ion 136.00 (135.70 to 136.70): E

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: 74.852 ng

RT: 7.52 min Scan# 882

Delta R.T. -0.01 min

Lab File: BF106418.D

Acq: 14 Jun 2018 3:56

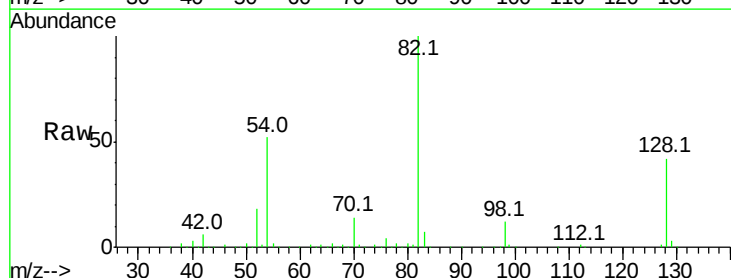
Tgt Ion: 82 Resp: 666602

Ion Ratio Lower Upper

82 100

128 42.4 36.1 54.1

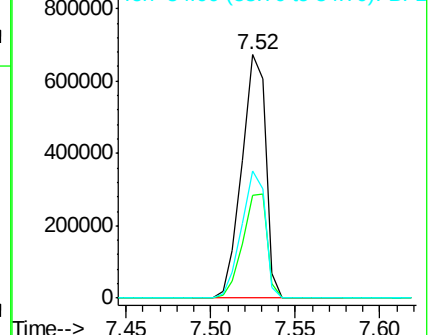
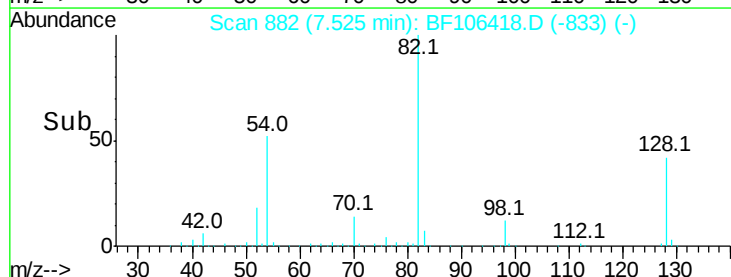
54 52.1 41.4 62.2

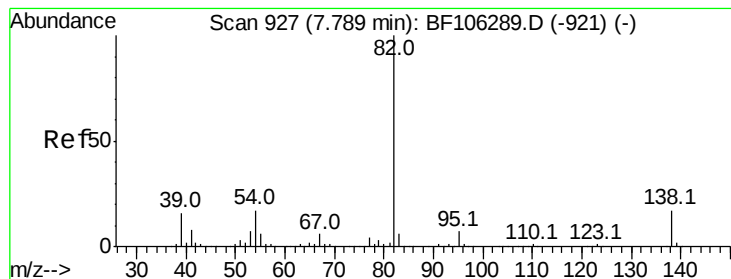


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 38.322 ng

RT: 7.52 min Scan# 882

Delta R.T. -0.27 min

Lab File: BF106418.D

Acq: 14 Jun 2018 3:56

Instrument :

BNA_F

ClientSampled :

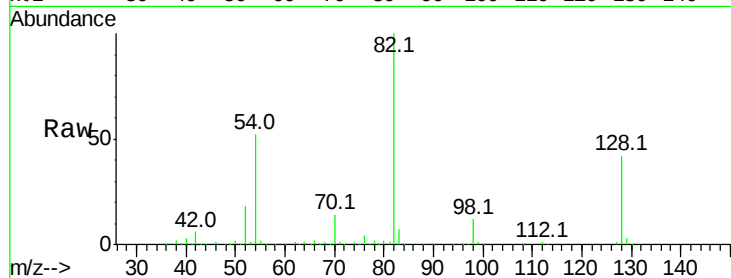
Tot Ion: 82 Resp: 666593

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

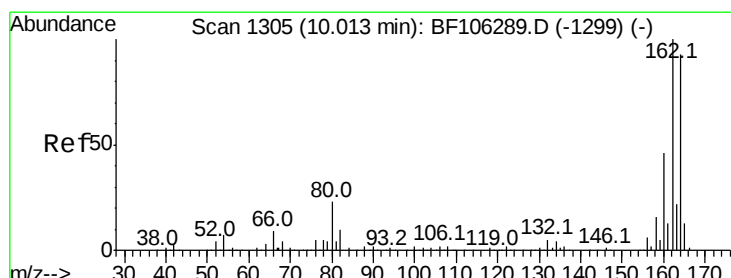
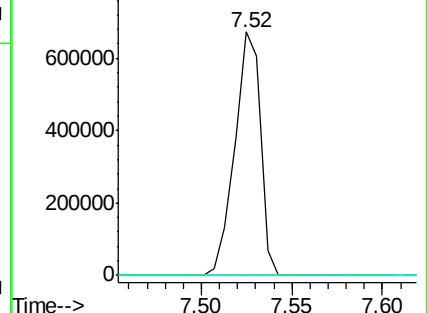
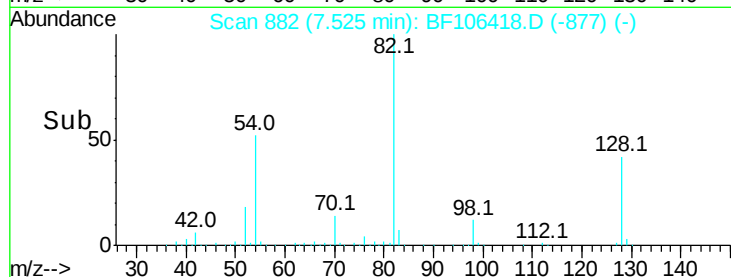
138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.01 min Scan# 1304

Delta R.T. -0.01 min

Lab File: BF106418.D

Acq: 14 Jun 2018 3:56

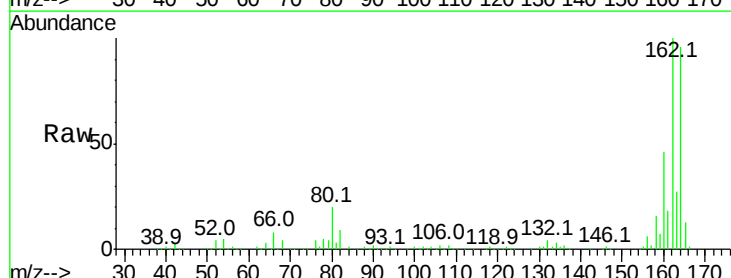
Tgt Ion:164 Resp: 248268

Ion Ratio Lower Upper

164 100

162 104.0 86.1 129.1

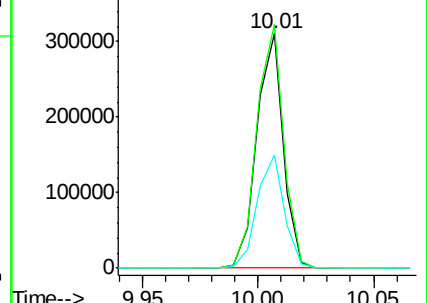
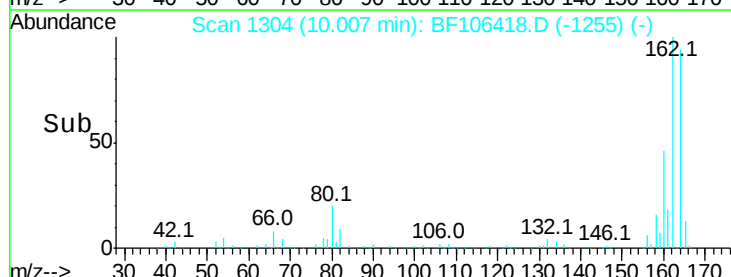
160 48.3 38.3 57.5

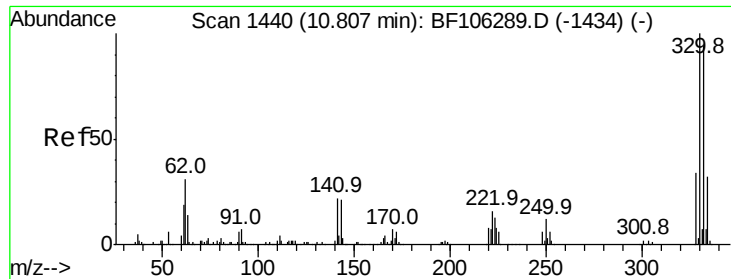


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

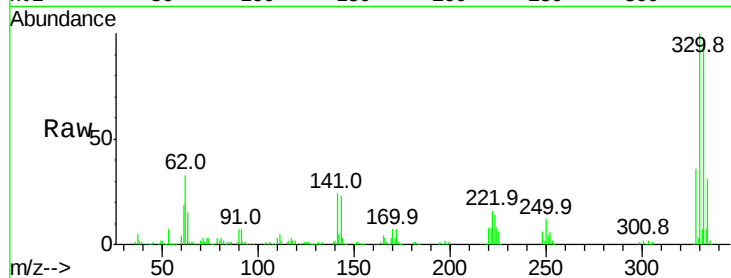




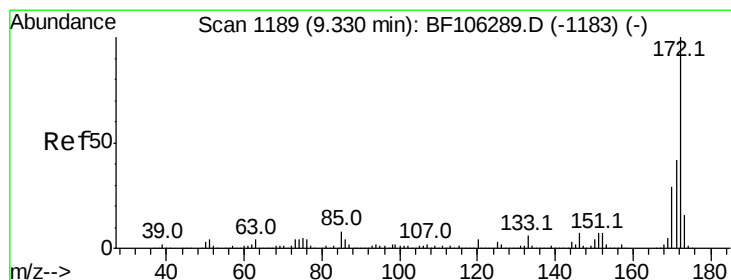
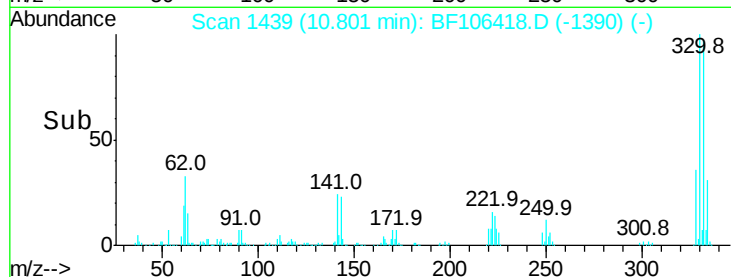
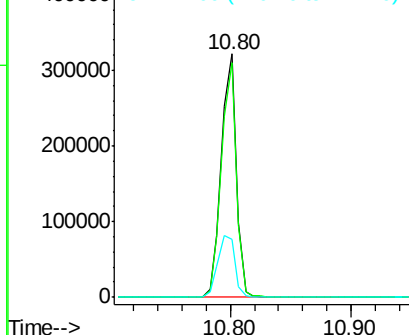
#41
 2,4,6-Tribromophenol
 Concen: 115.439 ng
 RT: 10.80 min Scan# 1439
 Delta R.T. -0.01 min
 Lab File: BF106418.D
 Acq: 14 Jun 2018 3:56

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 275758
 Ion Ratio Lower Upper
 330 100
 332 95.8 77.0 115.6
 141 29.1 29.9 44.9#

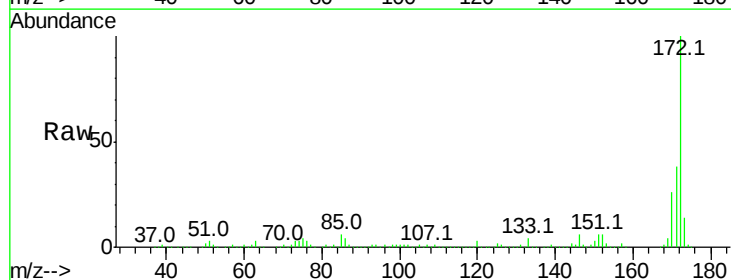


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

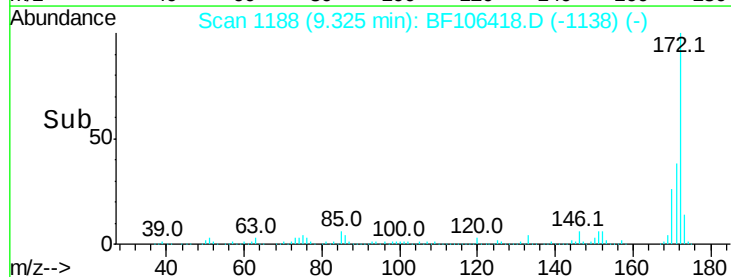
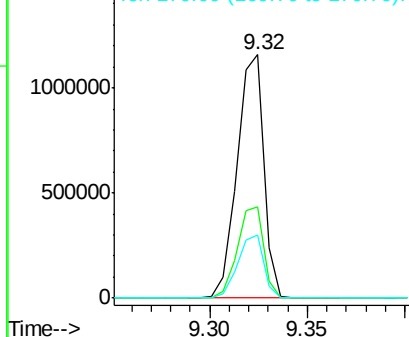


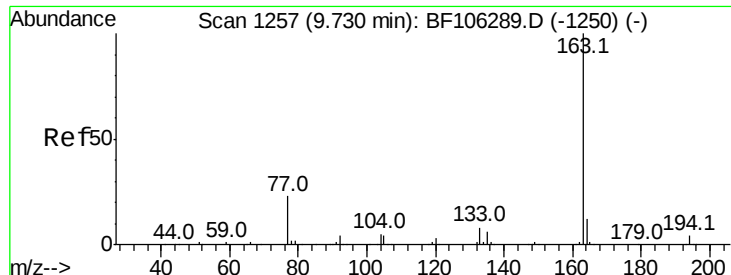
#44
 2-Fluorobiphenyl
 Concen: 75.928 ng
 RT: 9.32 min Scan# 1188
 Delta R.T. -0.01 min
 Lab File: BF106418.D
 Acq: 14 Jun 2018 3:56

Tgt Ion:172 Resp: 1098708
 Ion Ratio Lower Upper
 172 100
 171 37.6 29.7 44.5
 170 25.7 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

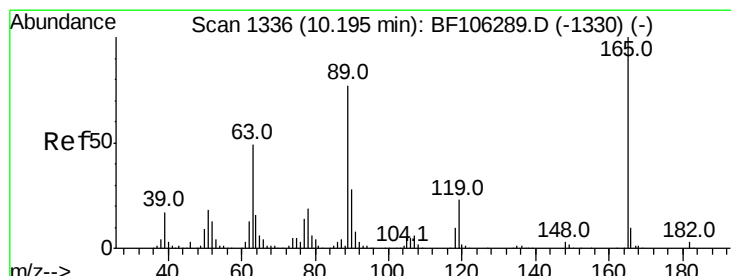
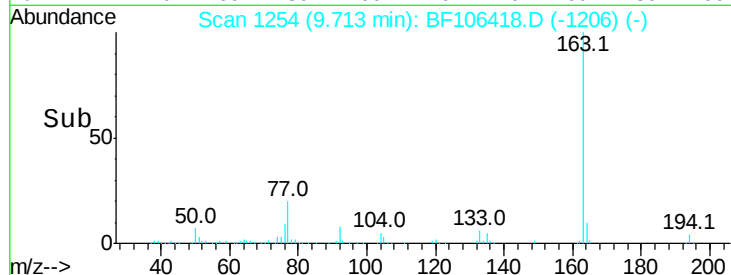
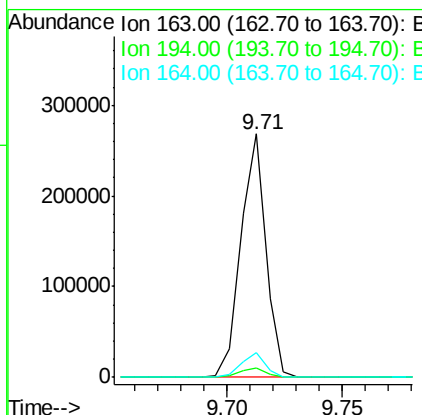
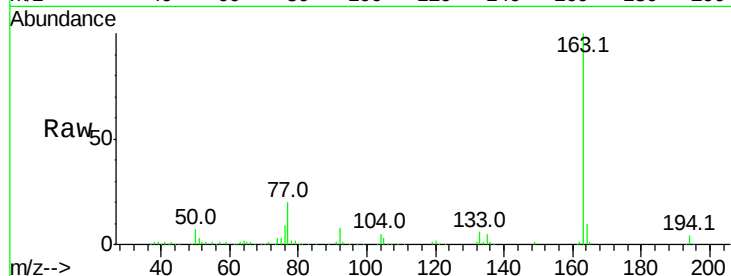




#49
Dimethylphthalate
Concen: 11.490 ng
RT: 9.71 min Scan# 1254
Delta R.T. -0.02 min
Lab File: BF106418.D
Acq: 14 Jun 2018 3:56

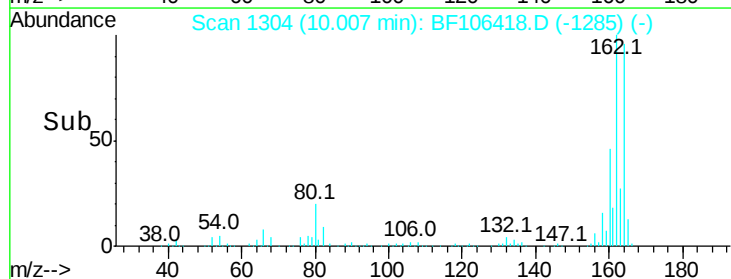
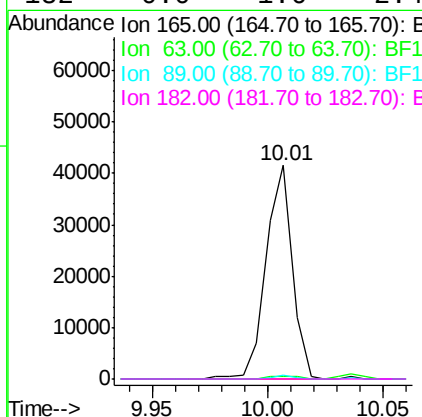
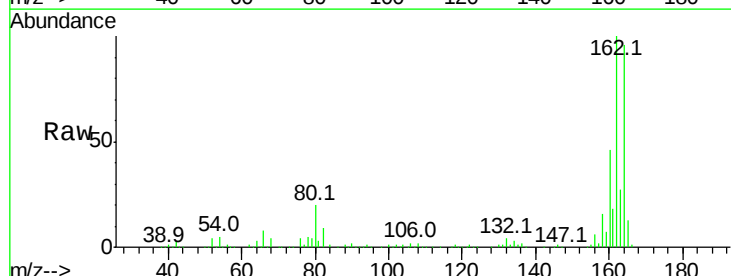
Instrument :
BNA_F
ClientSampleId :

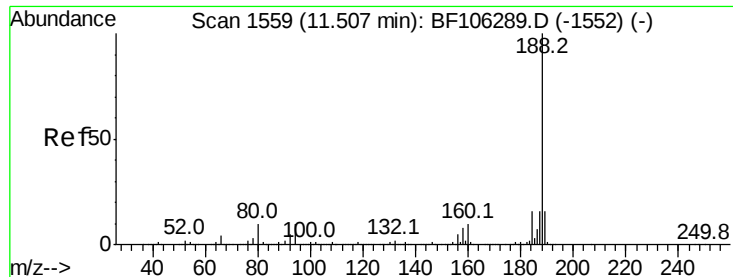
Tot Ion	Ratio	Lower	Upper
163	100		
194	4.0	2.7	4.1
164	10.3	8.2	12.2



#56
2,4-Dinitrotoluene
Concen: 7.277 ng
RT: 10.01 min Scan# 1304
Delta R.T. -0.19 min
Lab File: BF106418.D
Acq: 14 Jun 2018 3:56

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.2	36.4	54.6#
89	1.8	57.8	86.6#
182	0.0	1.6	2.4#





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.50 min Scan# 1557

Delta R.T. -0.01 min

Lab File: BF106418.D

Acq: 14 Jun 2018 3:56

Instrument :

BNA_F

ClientSampleId :

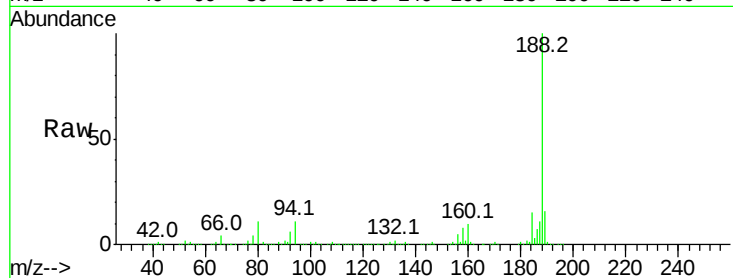
Tot Ion:188 Resp: 454896

Ion Ratio Lower Upper

188 100

94 11.1 8.5 12.7

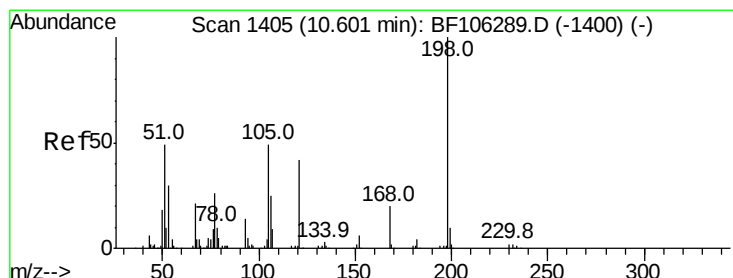
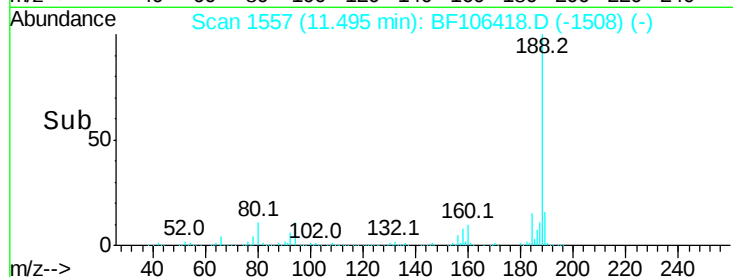
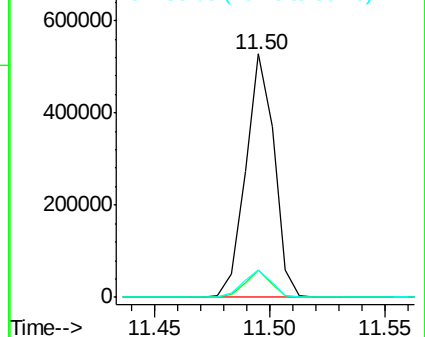
80 11.4 9.2 13.8



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



#64

4,6-Dinitro-2-methylphenol

Concen: 6.494 ng

RT: 10.80 min Scan# 1438

Delta R.T. 0.19 min

Lab File: BF106418.D

Acq: 14 Jun 2018 3:56

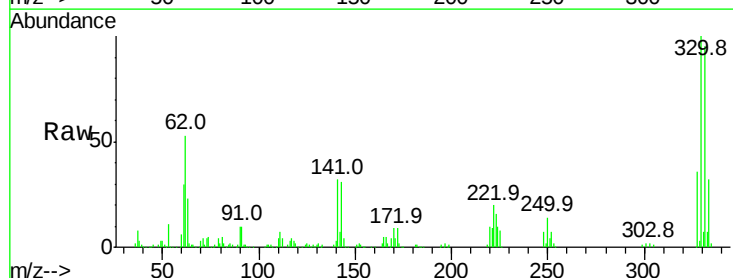
Tgt Ion:198 Resp: 562

Ion Ratio Lower Upper

198 100

51 214.7 37.7 77.7#

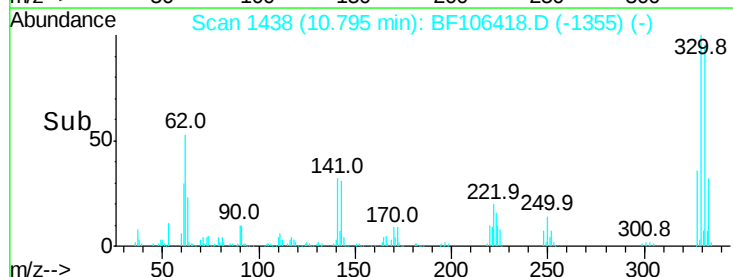
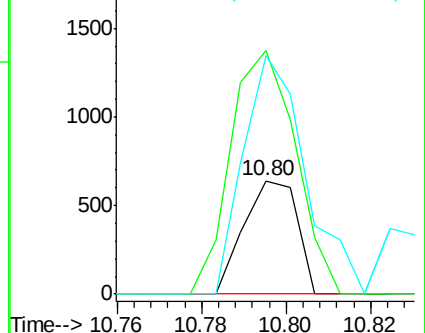
105 210.6 36.3 76.3#

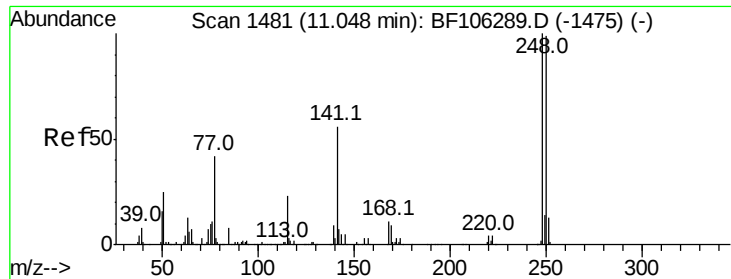


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E

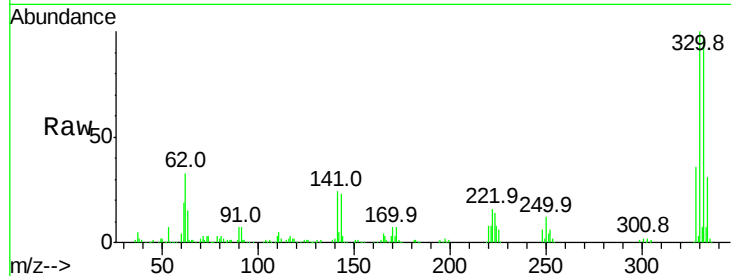




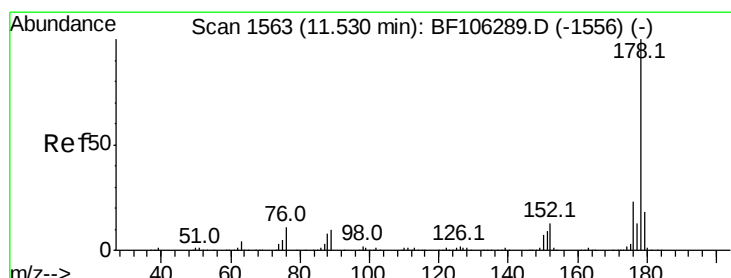
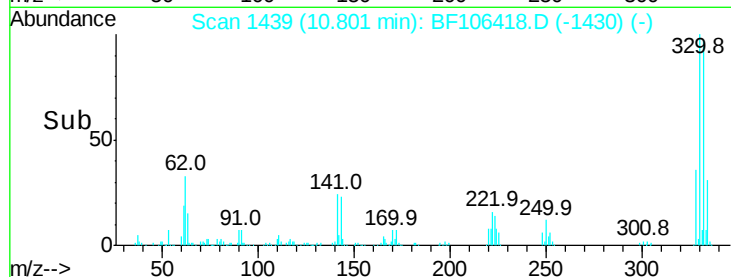
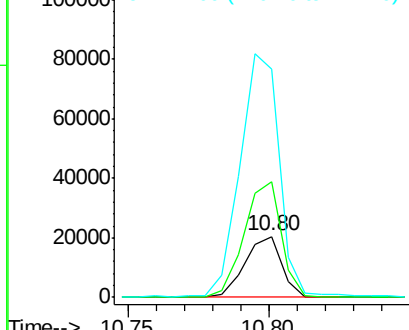
#66
4-Bromophenyl-phenylether
Concen: 3.547 ng
RT: 10.80 min Scan# 1439
Delta R.T. -0.25 min
Lab File: BF106418.D
Acq: 14 Jun 2018 3:56

Instrument :
BNA_F
ClientSampled :

Tot Ion:248 Resp: 18354
Ion Ratio Lower Upper
248 100
250 188.2 76.9 115.3#
141 374.1 74.4 111.6#

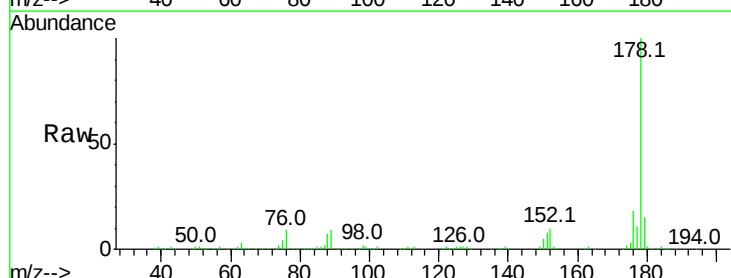


Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E

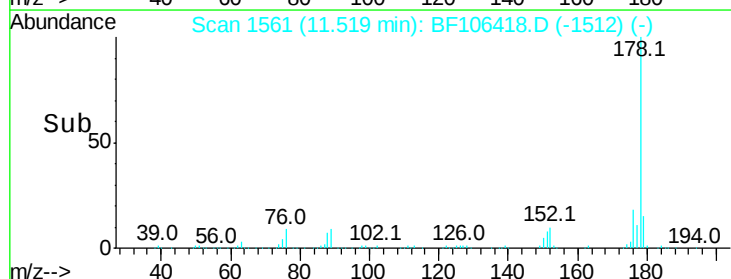
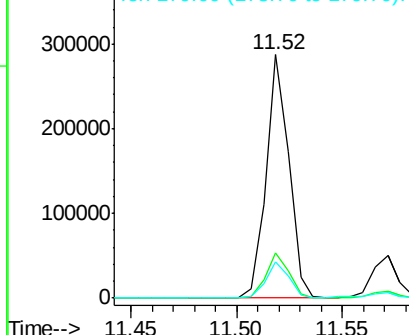


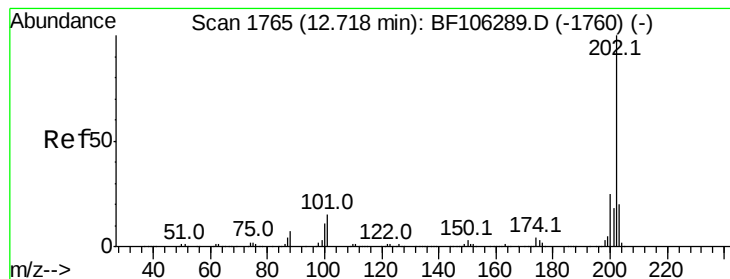
#70
Phenanthrene
Concen: 9.698 ng
RT: 11.52 min Scan# 1561
Delta R.T. -0.01 min
Lab File: BF106418.D
Acq: 14 Jun 2018 3:56

Tgt Ion:178 Resp: 216056
Ion Ratio Lower Upper
178 100
176 18.4 15.8 23.8
179 14.7 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





#74

Fluoranthene

Concen: 11.988 ng

RT: 12.71 min Scan# 1764

Delta R.T. -0.01 min

Lab File: BF106418.D

Acq: 14 Jun 2018 3:56

Instrument :

BNA_F

ClientSampleId :

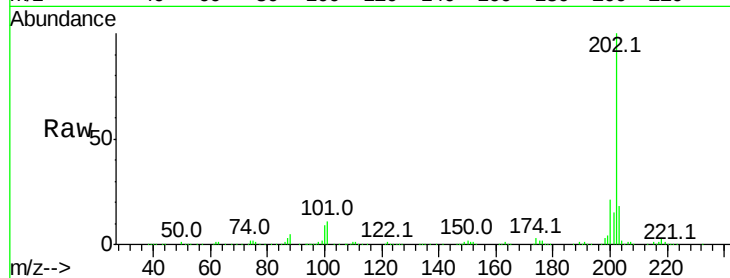
Tot Ion:202 Resp: 284815

Ion Ratio Lower Upper

202 100

101 11.4 0.0 34.1

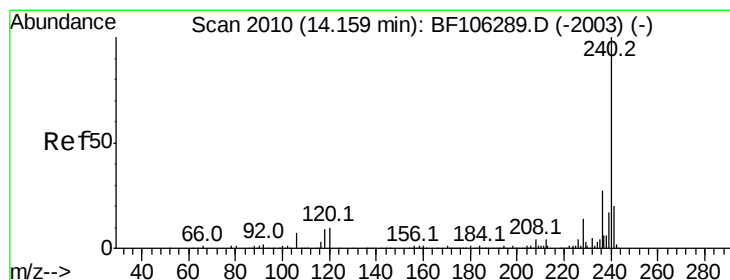
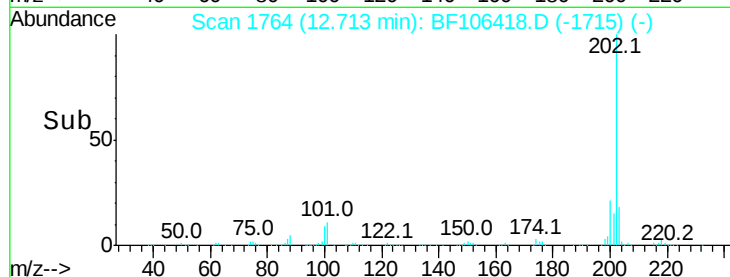
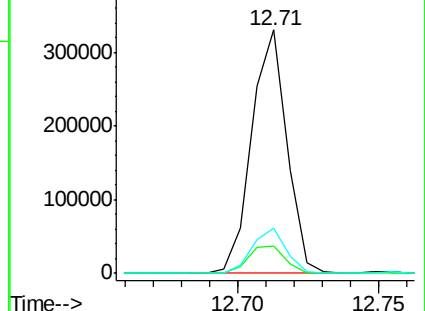
203 18.4 0.0 38.1



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: 14.14 min Scan# 2007

Delta R.T. -0.02 min

Lab File: BF106418.D

Acq: 14 Jun 2018 3:56

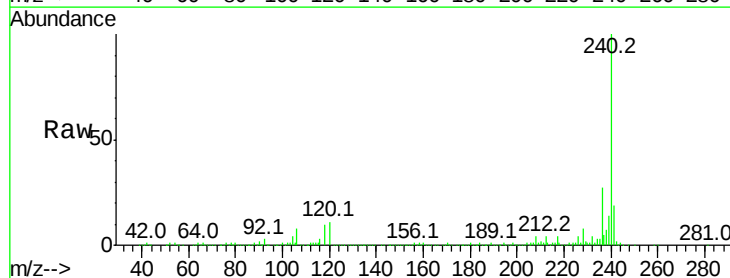
Tgt Ion:240 Resp: 356590

Ion Ratio Lower Upper

240 100

120 10.7 9.5 14.3

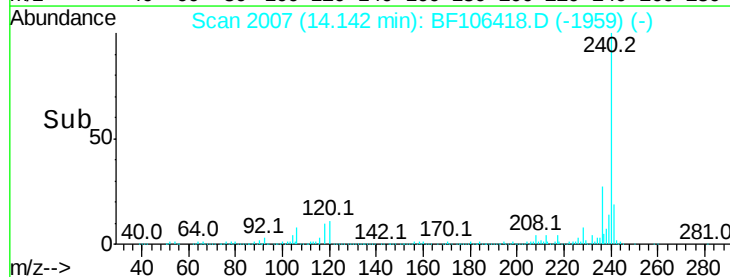
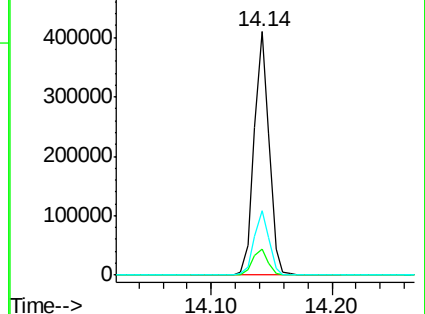
236 26.6 20.7 31.1

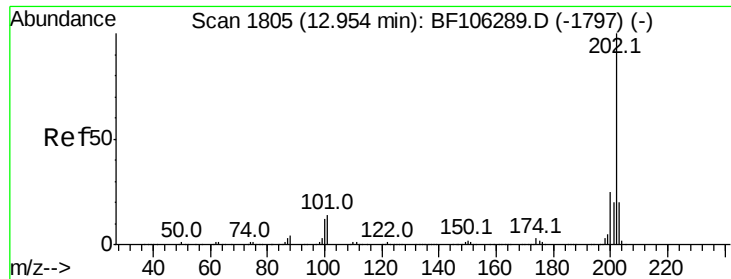


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

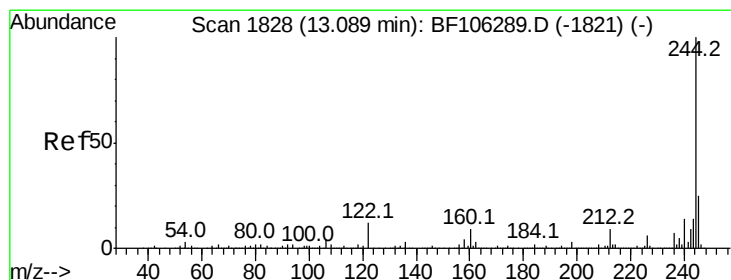
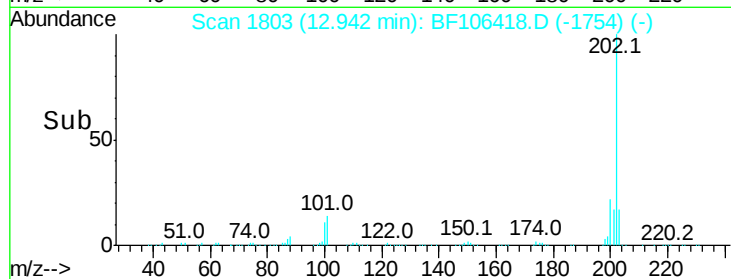
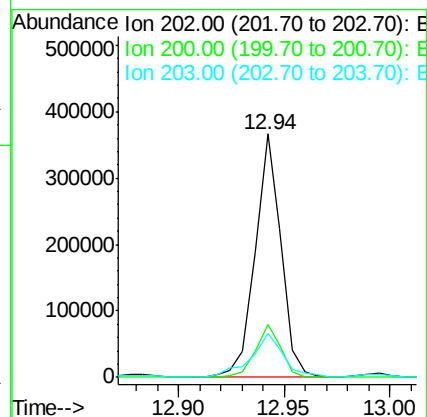
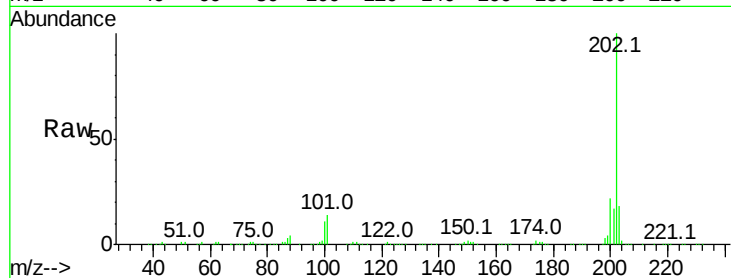




#77
Pvrene
Concen: 13.948 ng
RT: 12.94 min Scan# 1803
Delta R.T. -0.01 min
Lab File: BF106418.D
Acq: 14 Jun 2018 3:56

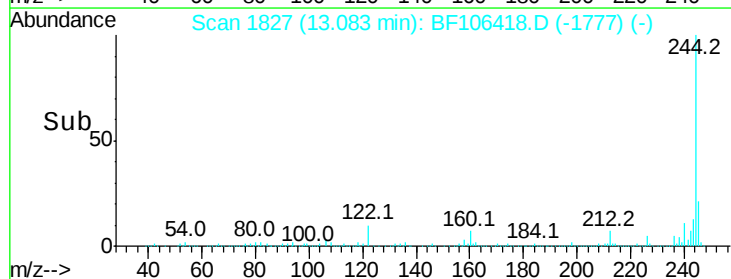
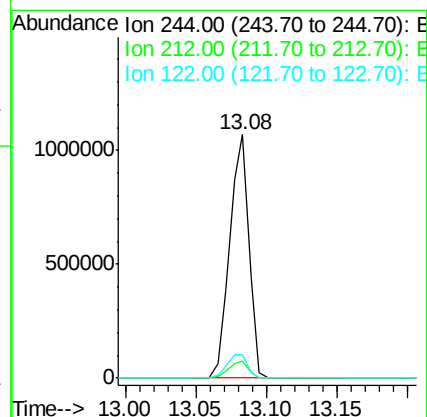
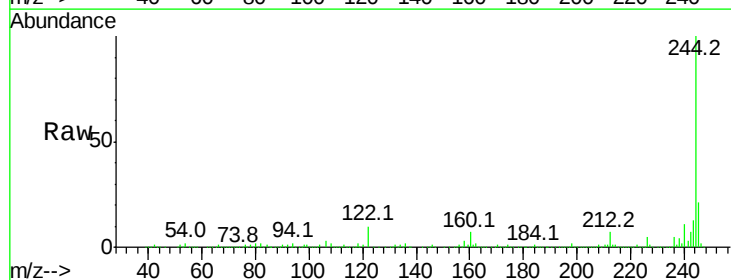
Instrument :
BNA_F
ClientSampleId :

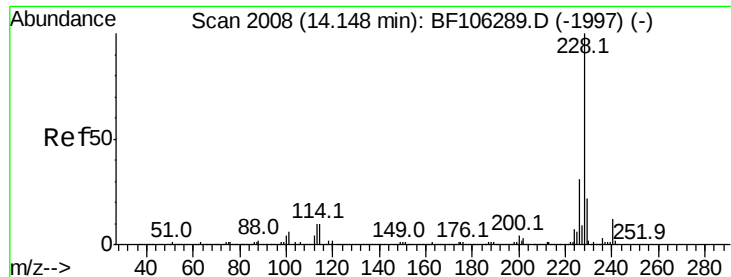
Tot Ion:202 Resp: 311389
Ion Ratio Lower Upper
202 100
200 21.8 17.4 26.2
203 18.0 14.3 21.5



#78
Terphenyl-d14
Concen: 70.259 ng
RT: 13.08 min Scan# 1827
Delta R.T. -0.01 min
Lab File: BF106418.D
Acq: 14 Jun 2018 3:56

Tgt Ion:244 Resp: 1008692
Ion Ratio Lower Upper
244 100
212 7.0 5.4 8.0
122 9.7 11.0 16.4#





#80

Benzo(a)anthracene

Concen: 8.247 ng

RT: 14.13 min Scan# 2005

Delta R.T. -0.02 min

Lab File: BF106418.D

Acq: 14 Jun 2018 3:56

Instrument :

BNA_F

ClientSampled :

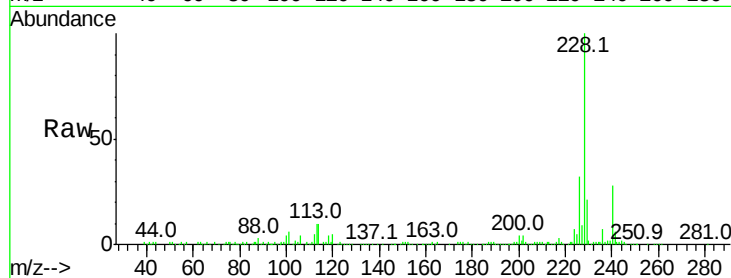
Tot Ion:228 Resp: 175011

Ion Ratio Lower Upper

228 100

226 32.1 22.6 33.8

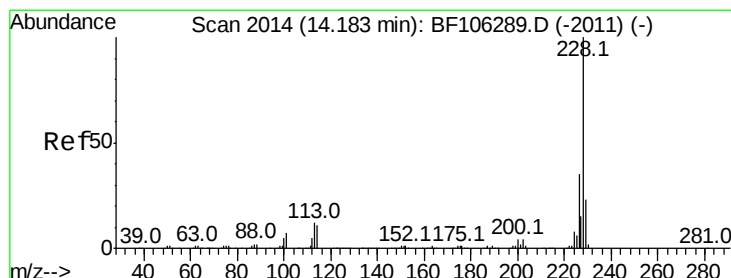
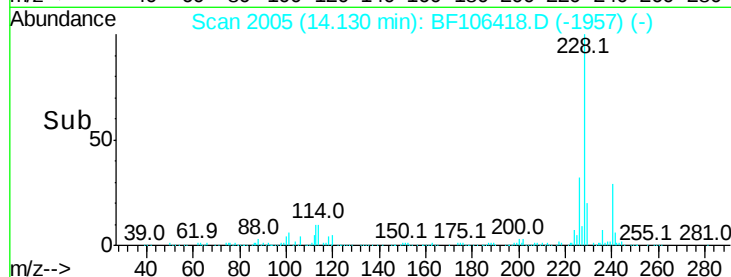
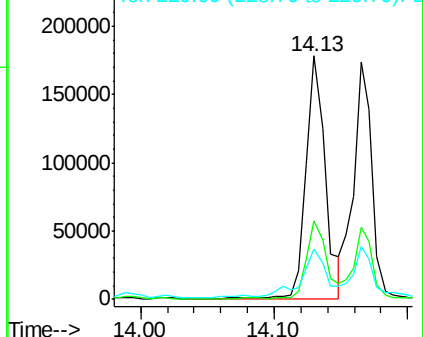
229 20.9 15.8 23.6



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

Chrysene

Concen: 8.608 ng

RT: 14.17 min Scan# 2011

Delta R.T. -0.02 min

Lab File: BF106418.D

Acq: 14 Jun 2018 3:56

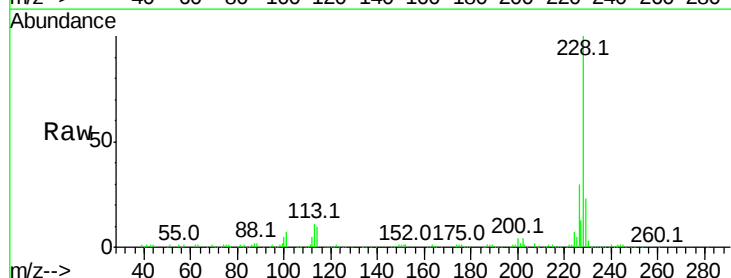
Tgt Ion:228 Resp: 166781

Ion Ratio Lower Upper

228 100

226 30.2 25.0 37.6

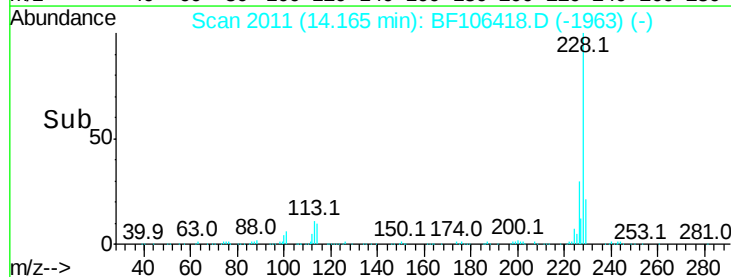
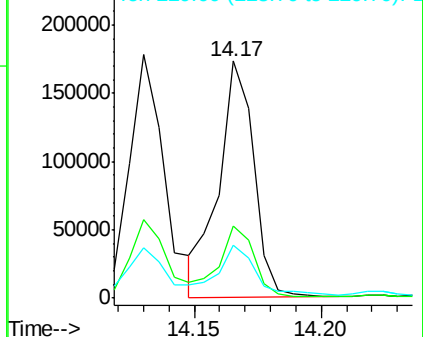
229 22.5 16.2 24.4

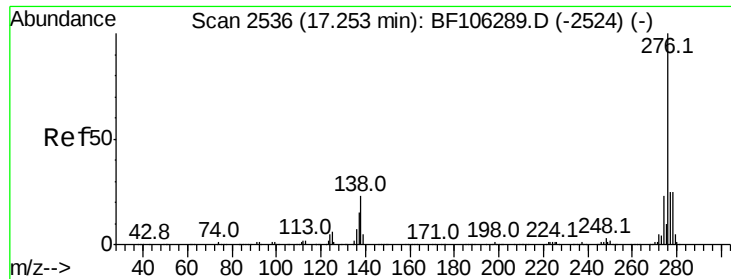


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

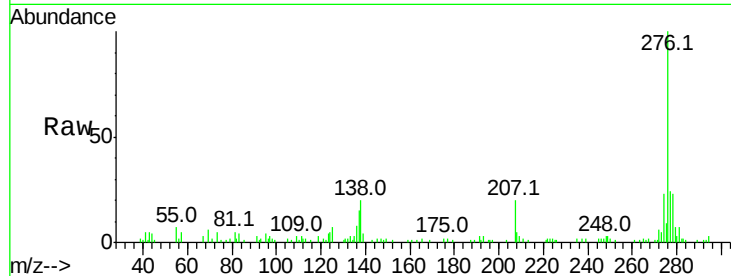




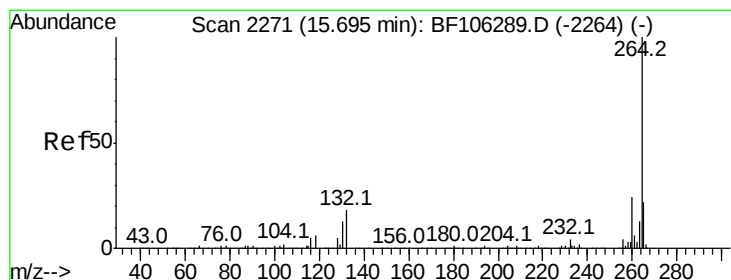
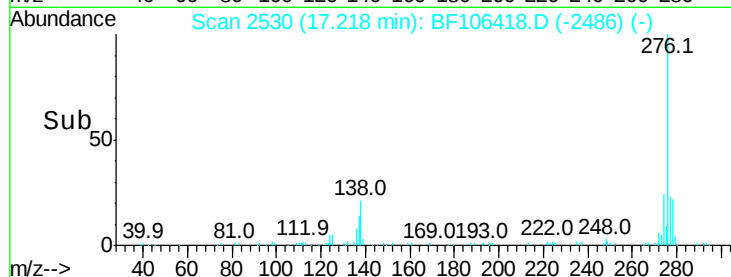
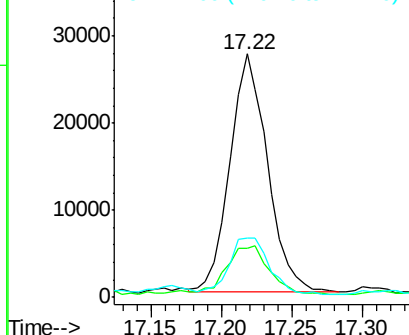
#85
Indeno(1,2,3-cd)pyrene
Concen: 3.284 ng
RT: 17.22 min Scan# 2530
Delta R.T. -0.04 min
Lab File: BF106418.D
Acq: 14 Jun 2018 3:56

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
138	26.8	25.0	37.6
277	26.2	20.1	30.1

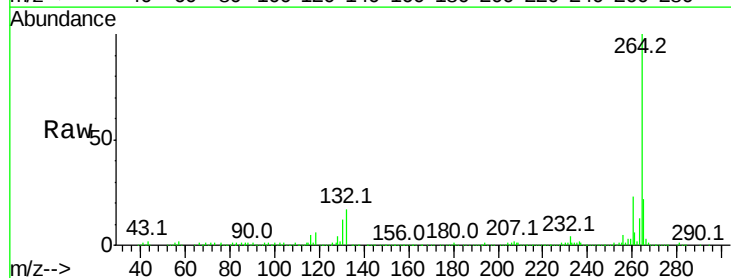


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

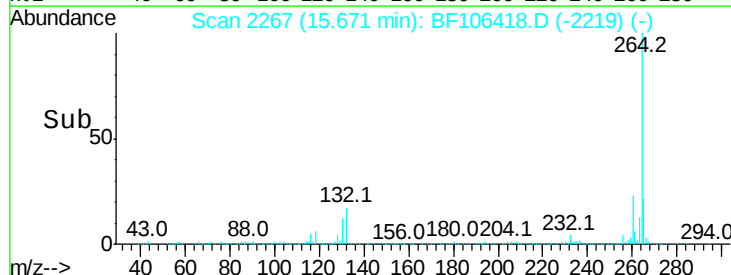
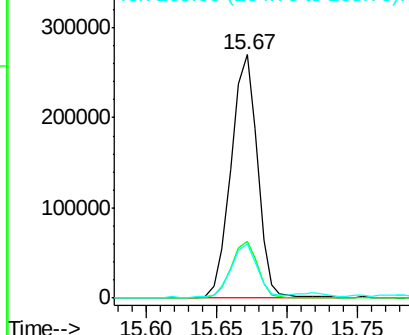


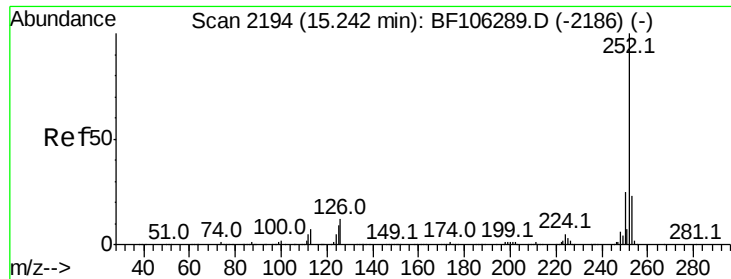
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.67 min Scan# 2267
Delta R.T. -0.02 min
Lab File: BF106418.D
Acq: 14 Jun 2018 3:56

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.1	19.2	28.8
265	22.2	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: 11.142 ng

RT: 15.21 min Scan# 2189

Delta R.T. -0.02 min

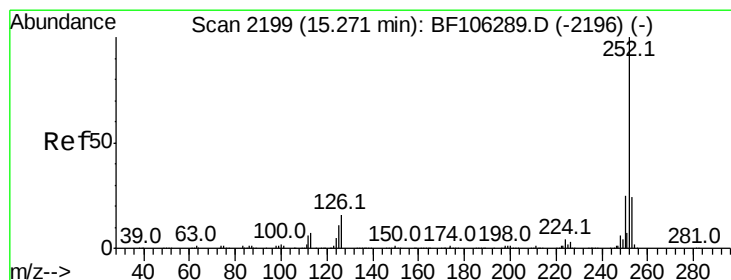
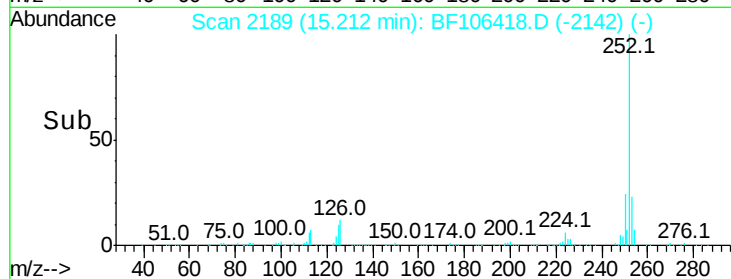
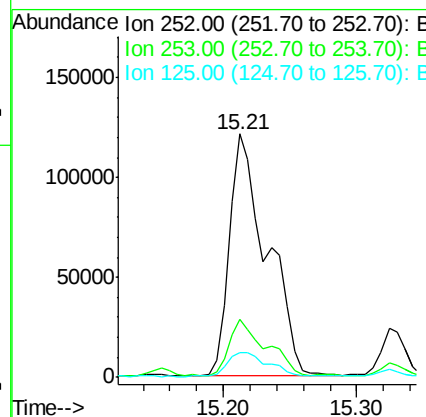
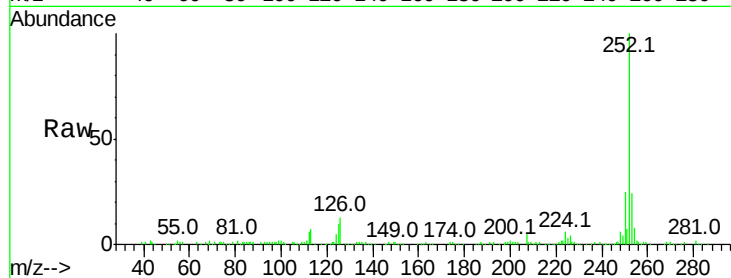
Lab File: BF106418.D

Acq: 14 Jun 2018 3:56

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 239364

Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.0	25.6
125	9.9	9.0	13.6



#88

Benzo(k)fluoranthene

Concen: 11.251 ng

RT: 15.21 min Scan# 2189

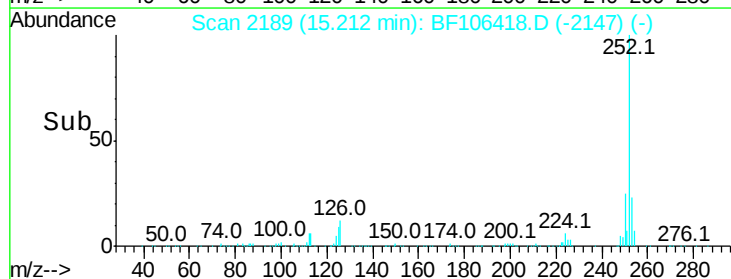
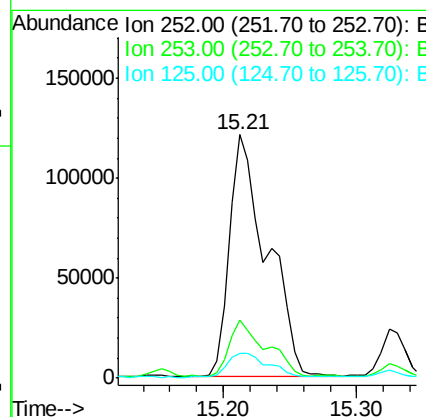
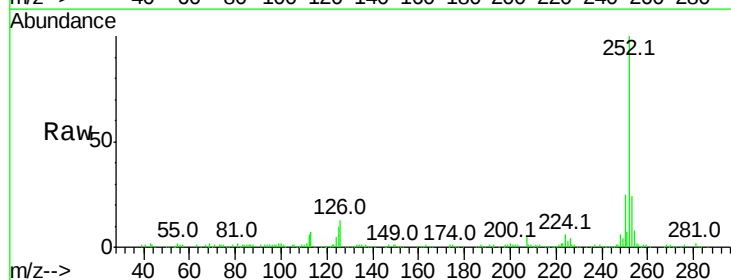
Delta R.T. -0.05 min

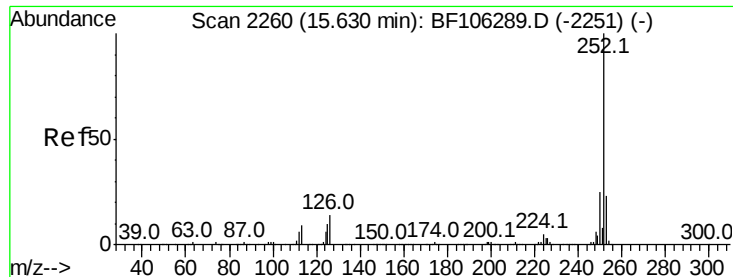
Lab File: BF106418.D

Acq: 14 Jun 2018 3:56

Tgt Ion:252 Resp: 239364

Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.9	26.9
125	9.9	10.2	15.2#





#89

Benzo(a)pyrene

Concen: 6.930 ng

RT: 15.60 min Scan# 2255

Delta R.T. -0.02 min

Lab File: BF106418.D

Acq: 14 Jun 2018 3:56

Instrument :

BNA_F

ClientSampled :

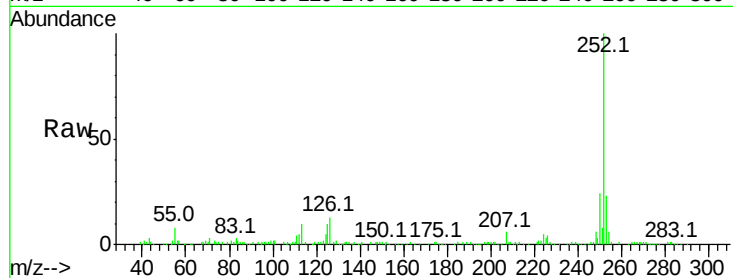
Tot Ion:252 Resp: 133908

Ion Ratio Lower Upper

252 100

253 22.7 17.1 25.7

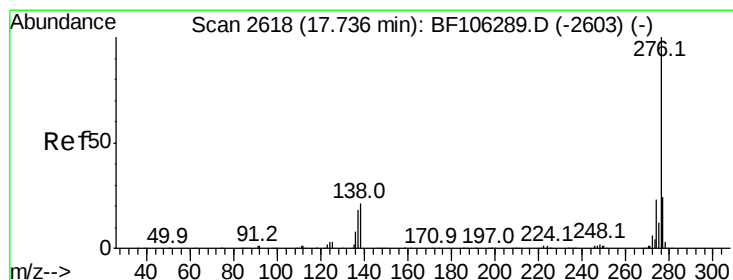
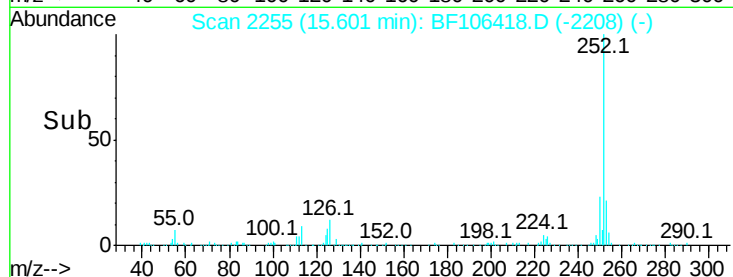
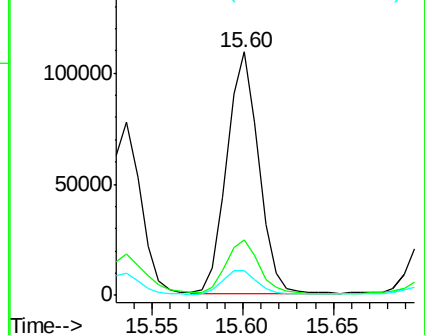
125 10.0 9.8 14.6



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: 3.539 ng

RT: 17.69 min Scan# 2611

Delta R.T. -0.04 min

Lab File: BF106418.D

Acq: 14 Jun 2018 3:56

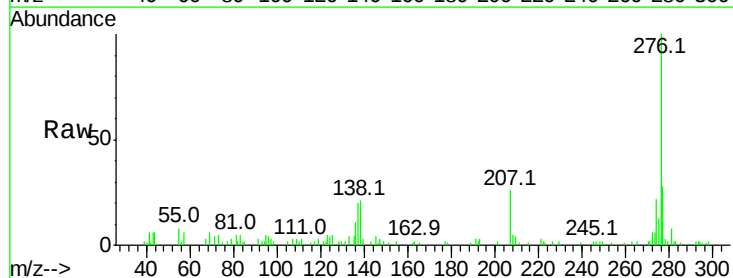
Tgt Ion:276 Resp: 55398

Ion Ratio Lower Upper

276 100

277 28.3 17.9 26.9#

138 21.2 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

