

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072518\
 Data File : BF107679.D
 Acq On : 26 Jul 2018 2:20
 Operator : JU/SJ
 Sample : J4126-05DL 40X
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jul 26 04:04:22 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	127619	20.00	ng	-0.01
21) Naphthalene-d8	8.25	136	530687	20.00	ng	-0.01
38) Acenaphthene-d10	10.01	164	206432	20.00	ng	-0.01
63) Phenanthrene-d10	11.51	188	374021	20.00	ng	0.00
75) Chrysene-d12	14.15	240	339902	20.00	ng	-0.01
86) Perylene-d12	15.69	264	297361	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.62	112	2042	0.26	ng	0.02
7) Phenol-d6	6.66	99	8696	0.91	ng	0.05
23) Nitrobenzene-d5	7.55	82	4671	0.59	ng	0.00
41) 2,4,6-Tribromophenol	10.81	330	4130	1.76	ng	-0.01
44) 2-Fluorobiphenyl	9.32	172	22324	-1.00	ng	-0.02
78) Terphenyl-d14	13.08	244	20263	1.53	ng	-0.02

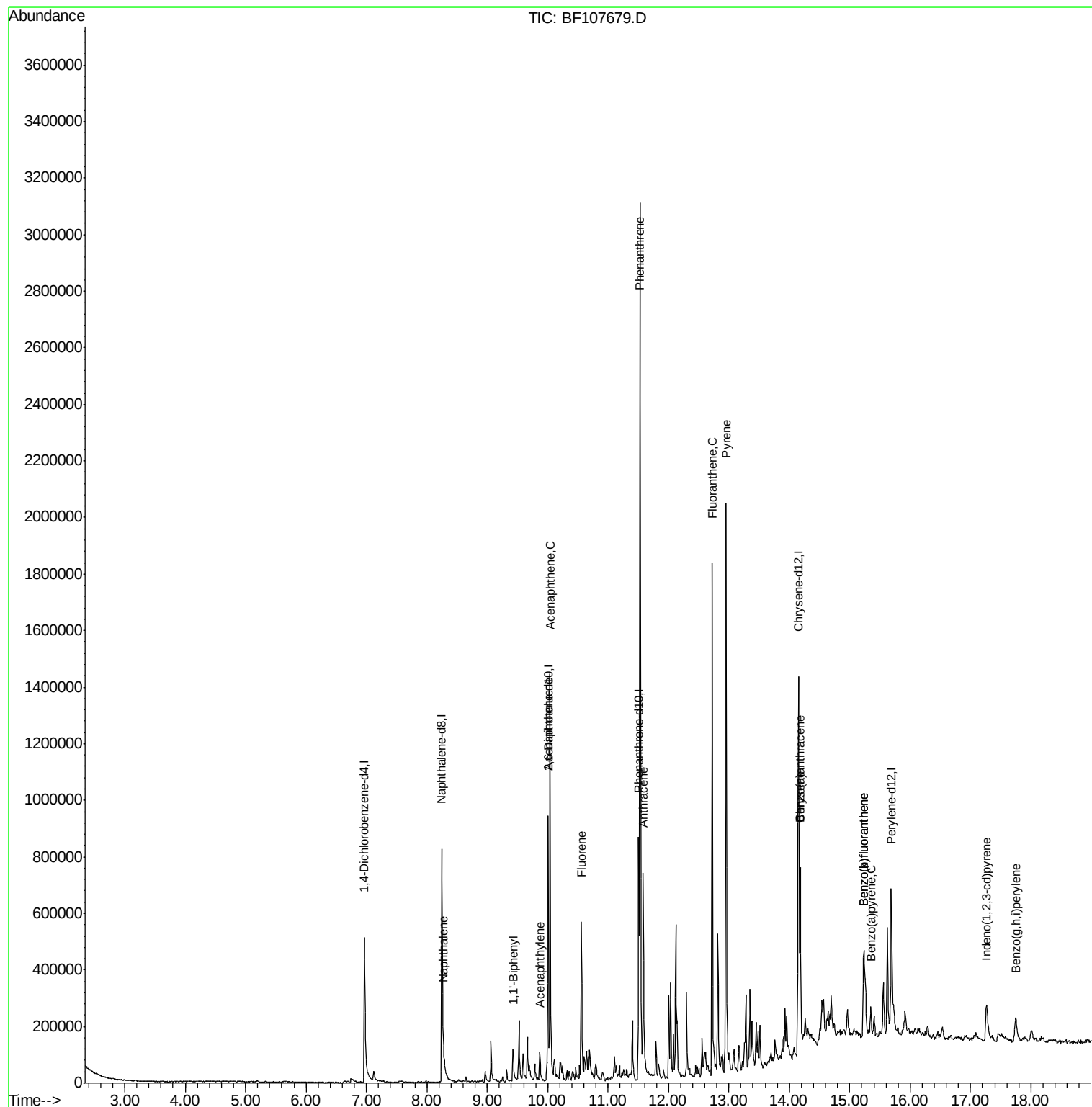
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.27	128	53738	2.303	ng	98
45) 1,1'-Biphenyl	9.42	154	60826	3.382	ng	94
48) Acenaphthylene	9.87	152	46986	2.276	ng	98
50) 2,6-Dinitrotoluene	10.01	165	31098	10.068	ng	# 26
51) Acenaphthene	10.04	154	306205	23.668	ng	99
57) Fluorene	10.56	166	185872	13.679	ng	93
70) Phenanthrene	11.53	178	1316733	72.244	ng	99
71) Anthracene	11.58	178	402237	21.919	ng	99
73) Di-n-butylphthalate	12.04	149	307	Below Cal	#	1
74) Fluoranthene	12.72	202	805852	41.203	ng	96
77) Pyrene	12.95	202	1022959	43.999	ng	98
80) Benzo(a)anthracene	14.18	228	242170	12.158	ng	96
81) 3,3'-Dichlorobenzidine	14.09	252	261	Below Cal	#	27
82) Chrysene	14.18	228	242170	12.656	ng	100
85) Indeno(1,2,3-cd)pyrene	17.27	276	79154	4.881	ng	# 90
87) Benzo(b)fluoranthene	15.24	252	289163	17.768	ng	98
88) Benzo(k)fluoranthene	15.24	252	289163	18.136	ng	99
89) Benzo(a)pyrene	15.35	252	54824	3.683	ng	94
91) Benzo(a,h,i)perylene	17.75	276	77880	6.136	ng	95

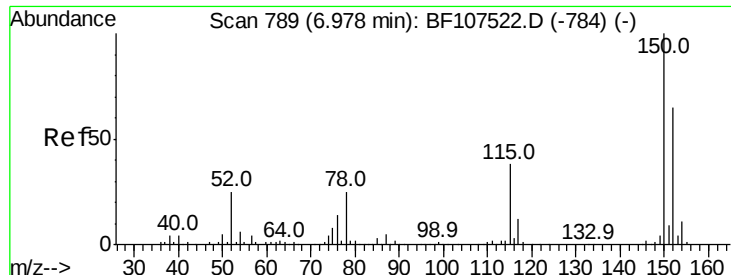
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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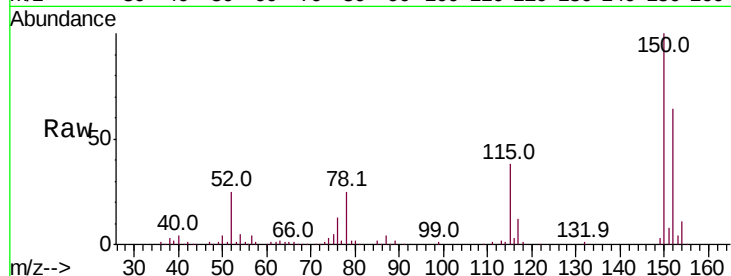


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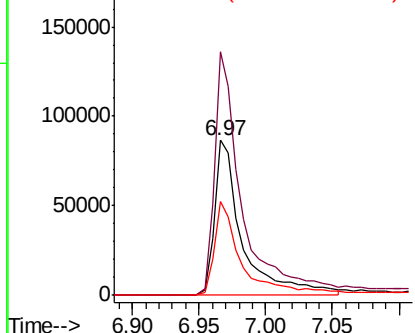
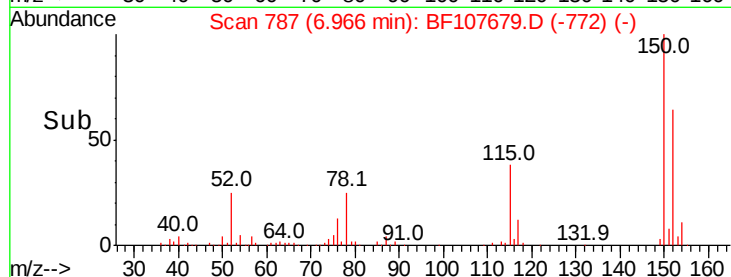
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.97 min Scan# 787
Delta R.T. -0.01 min
Lab File: BF107679.D
Acq: 26 Jul 2018 2:20

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 127619
Ion Ratio Lower Upper
152 100
150 157.1 124.6 186.8
115 60.3 50.1 75.1



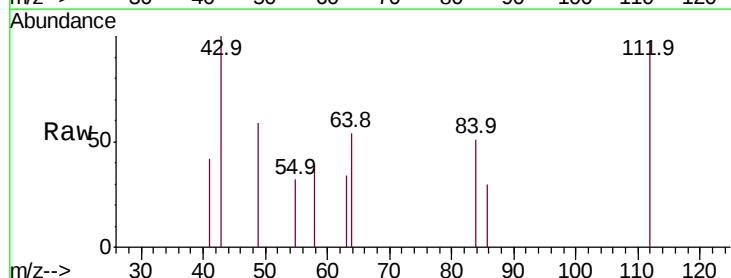
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



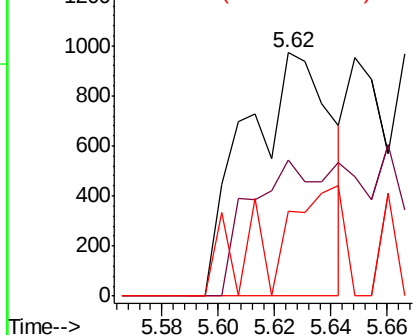
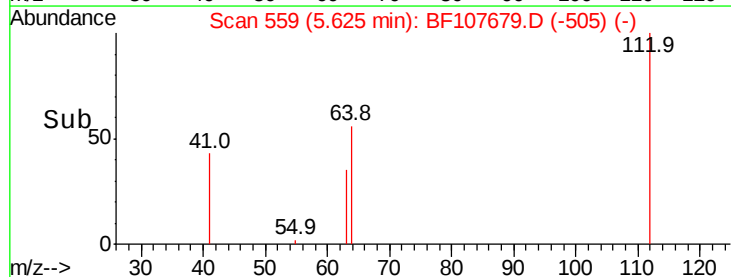
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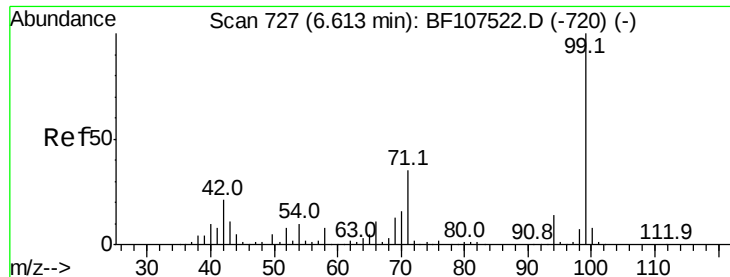
2-Fluorophenol
Concen: 0.257 ng
RT: 5.62 min Scan# 559
Delta R.T. 0.02 min
Lab File: BF107679.D
Acq: 26 Jul 2018 2:20

Tgt Ion:112 Resp: 2042
Ion Ratio Lower Upper
112 100
64 55.7 47.9 71.9
63 34.8 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: 0.912 ng

RT: 6.66 min Scan# 735

Delta R.T. 0.05 min

Lab File: BF107679.D

Acq: 26 Jul 2018 2:20

Instrument :

BNA_F

ClientSampled :

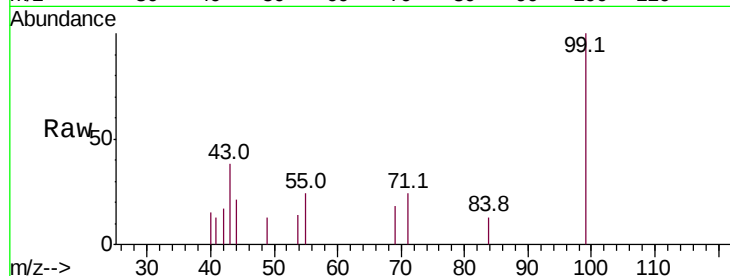
Tot Ion: 99 Resp: 8696

Ion Ratio Lower Upper

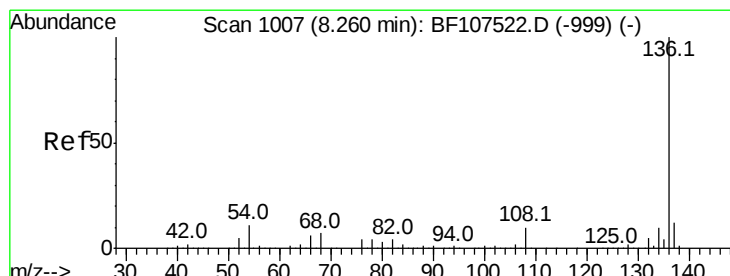
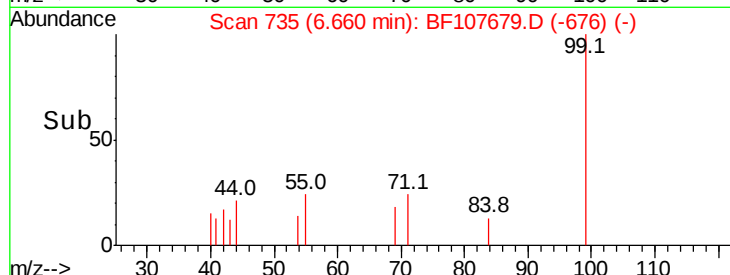
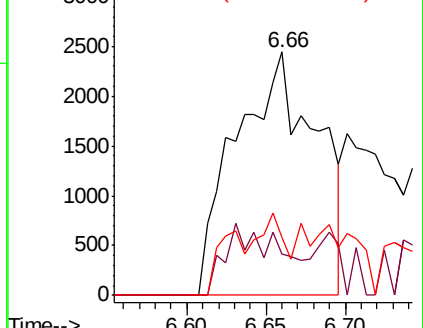
99 100

42 17.1 14.5 21.7

71 24.0 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: BF107679.D

Acq: 26 Jul 2018 2:20

Tgt Ion: 136 Resp: 530687

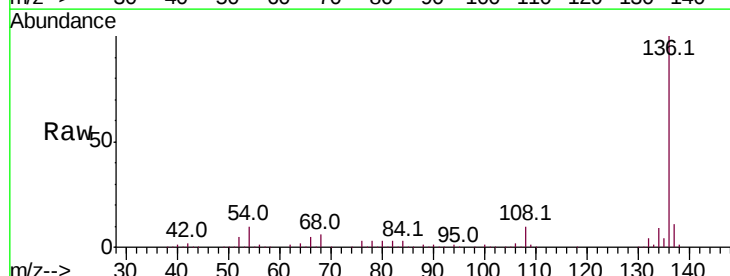
Ion Ratio Lower Upper

136 100

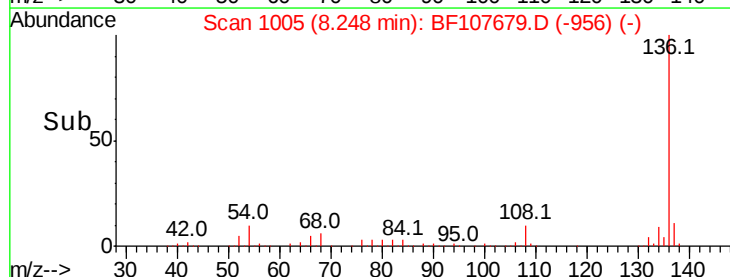
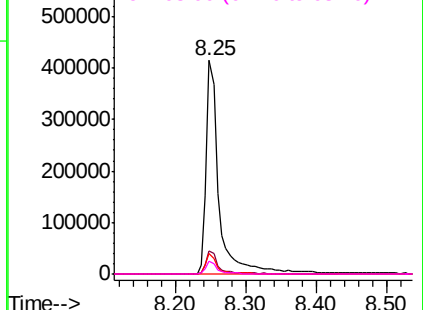
137 10.8 8.9 13.3

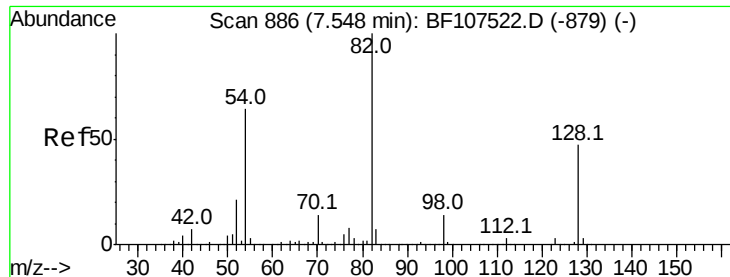
54 9.7 6.6 9.8

68 5.7 5.0 7.4



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

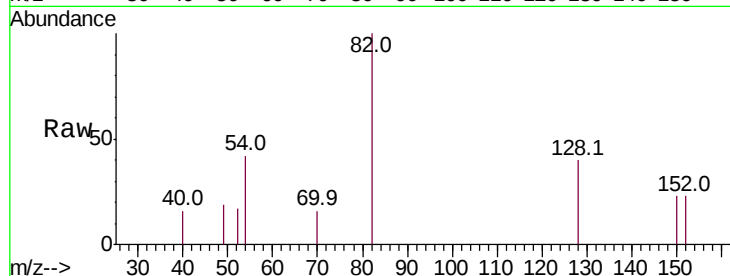




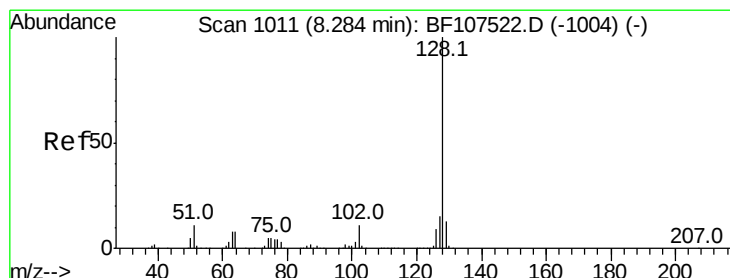
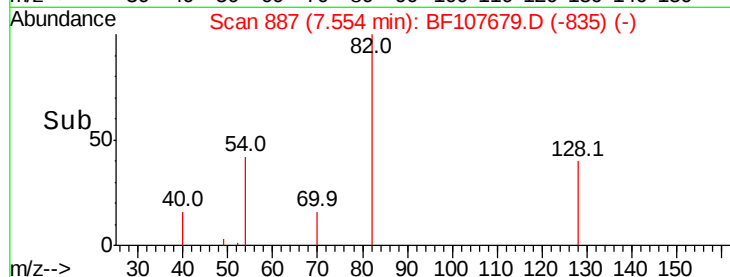
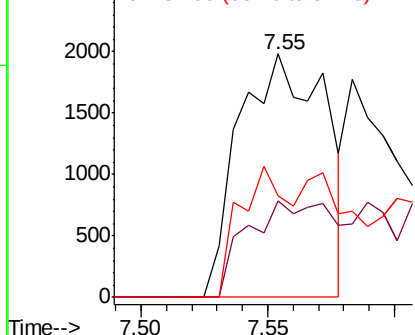
#23
 Nitrobenzene-d5
 Concen: 0.594 ng
 RT: 7.55 min Scan# 887
 Delta R.T. 0.01 min
 Lab File: BF107679.D
 Acq: 26 Jul 2018 2:20

Instrument :
 BNA_F
 ClientSampled :

Tot Ion: 82 Resp: 4671
 Ion Ratio Lower Upper
 82 100
 128 39.8 36.1 54.1
 54 41.6 41.4 62.2

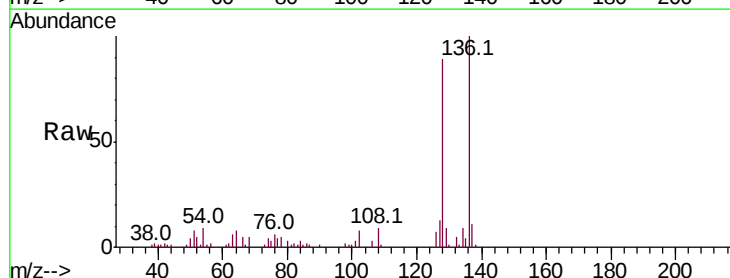


Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 128.00 (127.70 to 128.70): BF1
 Ion 54.00 (53.70 to 54.70): BF1

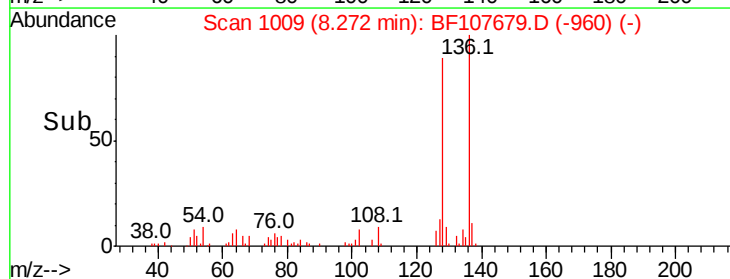
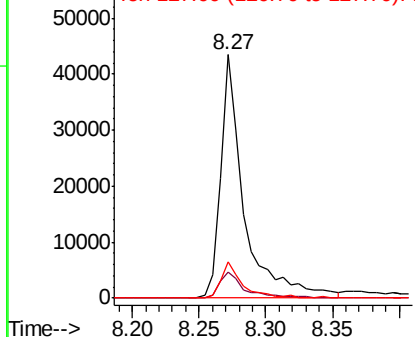


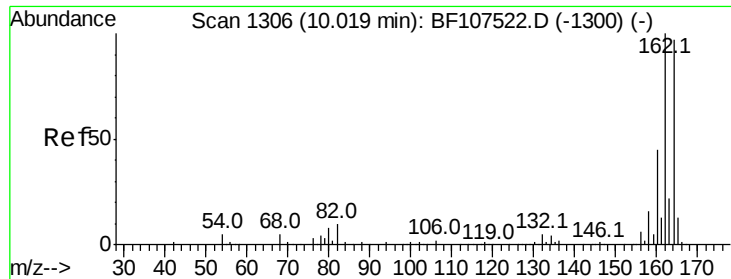
#31
 Naphthalene
 Concen: 2.303 ng
 RT: 8.27 min Scan# 1009
 Delta R.T. -0.01 min
 Lab File: BF107679.D
 Acq: 26 Jul 2018 2:20

Tgt Ion: 128 Resp: 53738
 Ion Ratio Lower Upper
 128 100
 129 10.5 8.8 13.2
 127 14.8 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

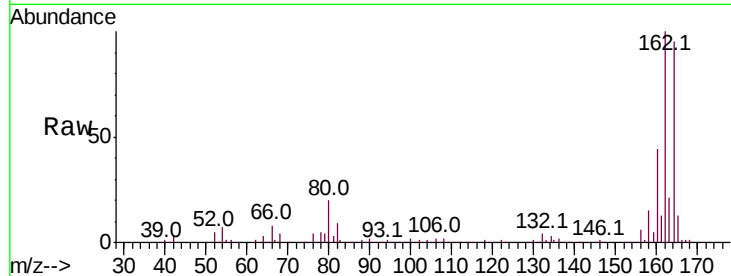




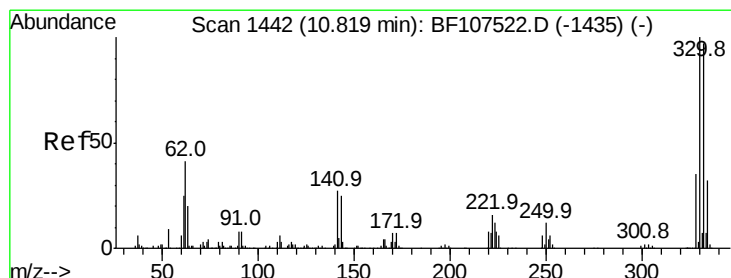
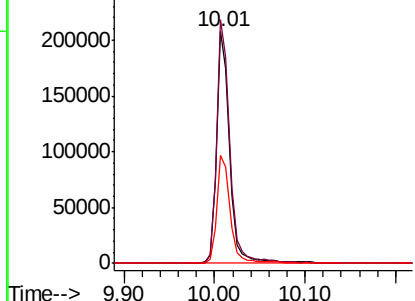
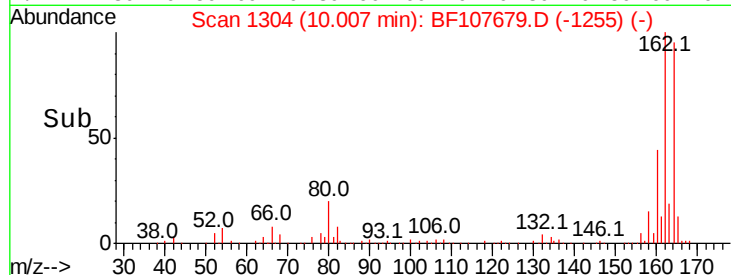
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 10.01 min Scan# 1304
 Delta R.T. -0.01 min
 Lab File: BF107679.D
 Acq: 26 Jul 2018 2:20

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:164 Resp: 206432
 Ion Ratio Lower Upper
 164 100
 162 105.1 86.1 129.1
 160 46.8 38.3 57.5

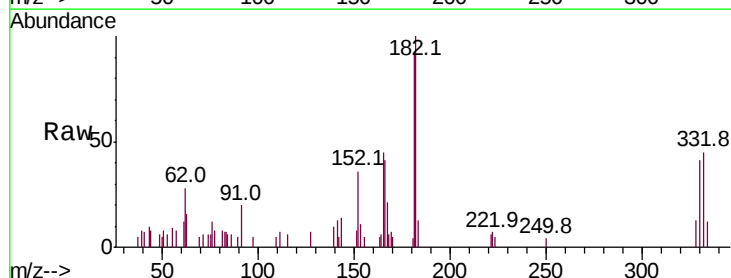


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

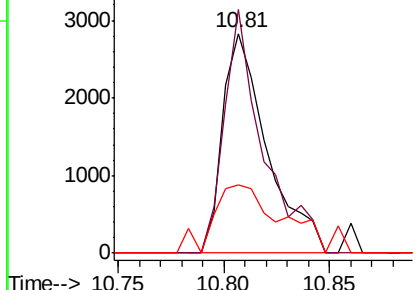
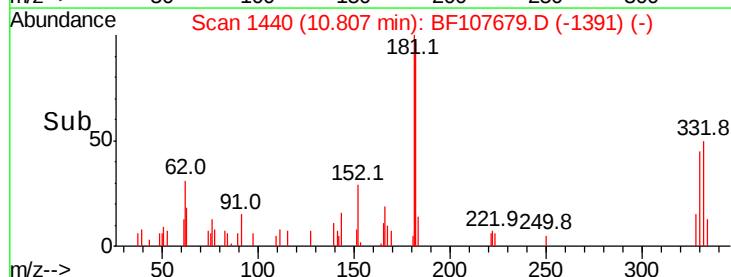


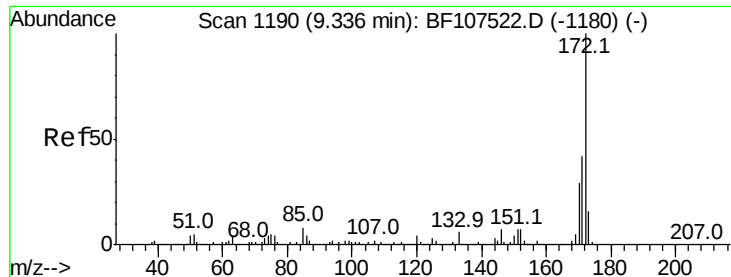
#41
 2,4,6-Tribromophenol
 Concen: 1.759 ng
 RT: 10.81 min Scan# 1440
 Delta R.T. -0.01 min
 Lab File: BF107679.D
 Acq: 26 Jul 2018 2:20

Tgt Ion:330 Resp: 4130
 Ion Ratio Lower Upper
 330 100
 332 96.9 77.0 115.6
 141 50.7 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

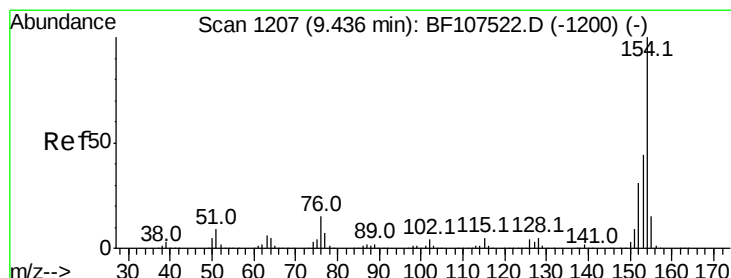
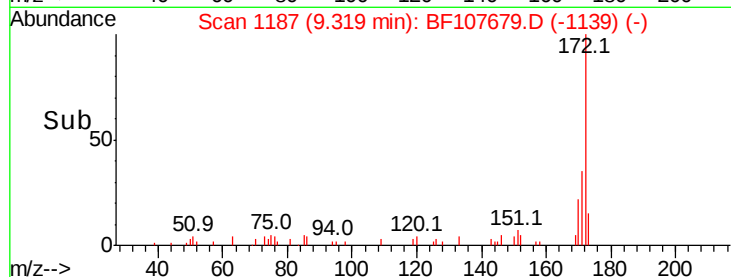
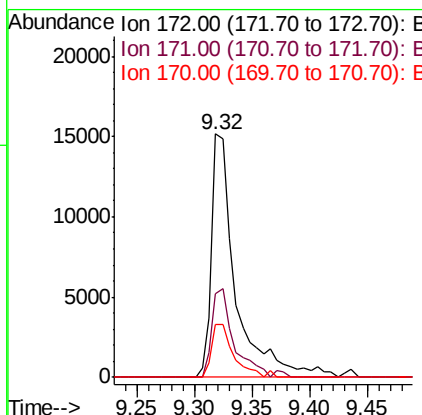
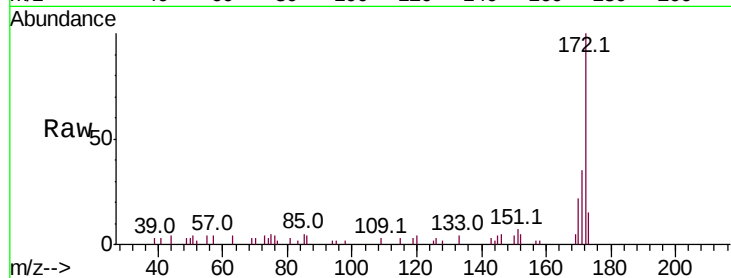




#44
2-Fluorobiphenyl
Concen: -1.000 ng
RT: 9.32 min Scan# 1187
Delta R.T. -0.02 min
Lab File: BF107679.D
Acq: 26 Jul 2018 2:20

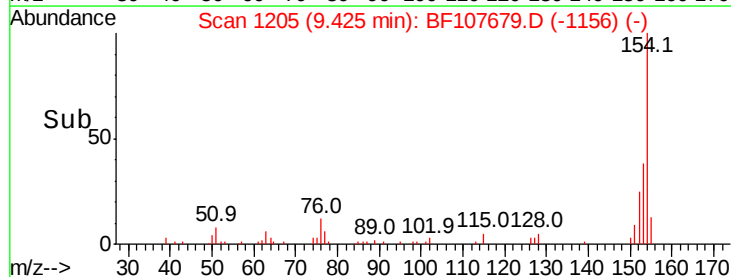
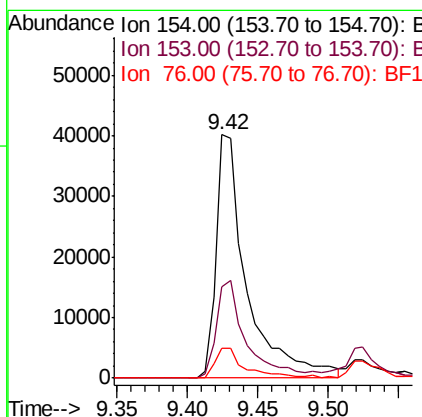
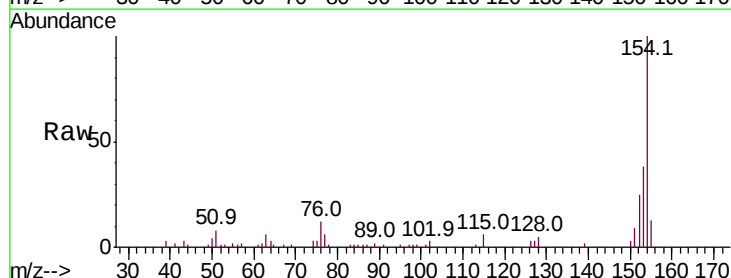
Instrument :
BNA_F
ClientSampleId :

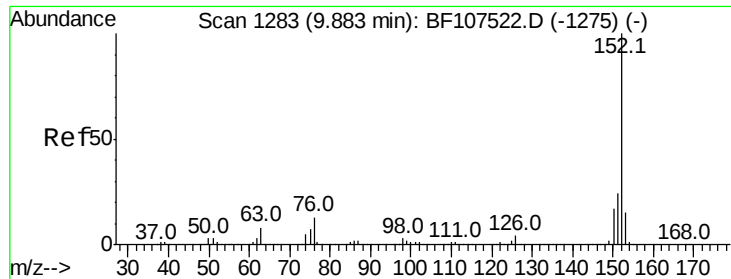
Tot Ion:172 Resp: 22324
Ion Ratio Lower Upper
172 100
171 34.5 29.7 44.5
170 21.6 19.6 29.4



#45
1,1'-Biphenyl
Concen: 3.382 ng
RT: 9.42 min Scan# 1205
Delta R.T. -0.01 min
Lab File: BF107679.D
Acq: 26 Jul 2018 2:20

Tgt Ion:154 Resp: 60826
Ion Ratio Lower Upper
154 100
153 37.5 21.3 61.3
76 12.3 0.0 34.0





#48

Acenaphthylene

Concen: 2.276 ng

RT: 9.87 min Scan# 1281

Delta R.T. -0.01 min

Lab File: BF107679.D

Acq: 26 Jul 2018 2:20

Instrument :

BNA_F

ClientSampleId :

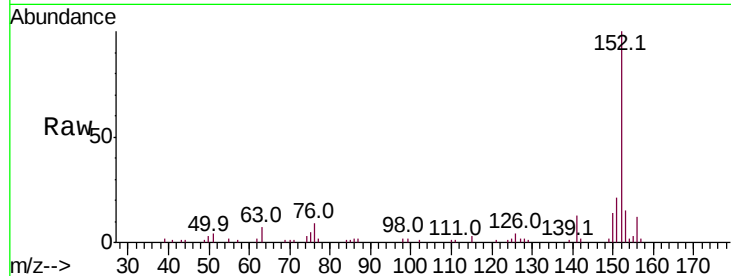
Tot Ion:152 Resp: 46986

Ion Ratio Lower Upper

152 100

151 21.0 16.3 24.5

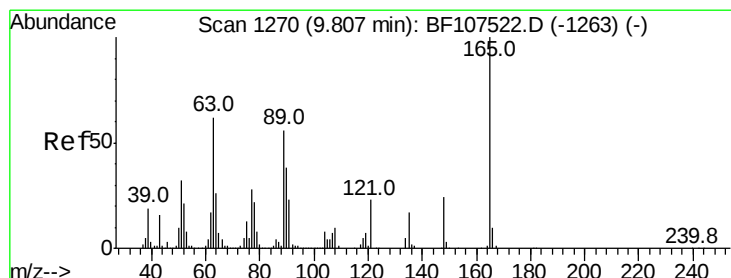
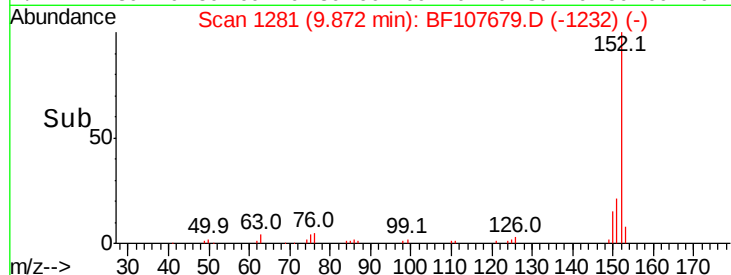
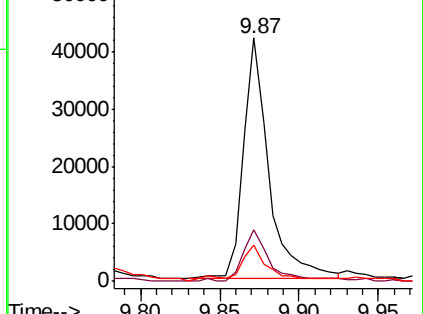
153 14.8 10.7 16.1



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: 10.068 ng

RT: 10.01 min Scan# 1304

Delta R.T. 0.20 min

Lab File: BF107679.D

Acq: 26 Jul 2018 2:20

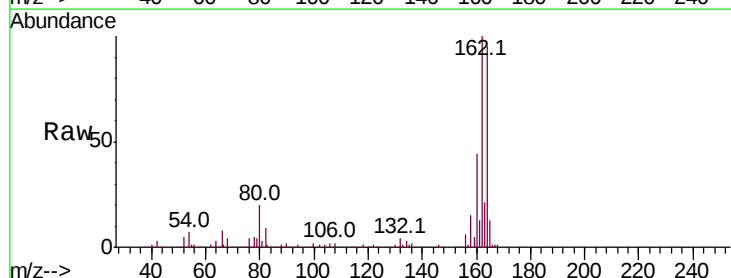
Tgt Ion:165 Resp: 31098

Ion Ratio Lower Upper

165 100

63 2.0 44.7 67.1#

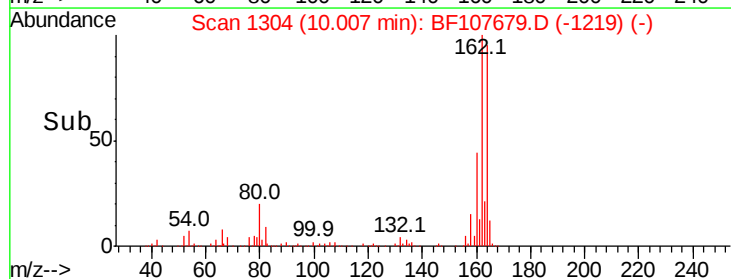
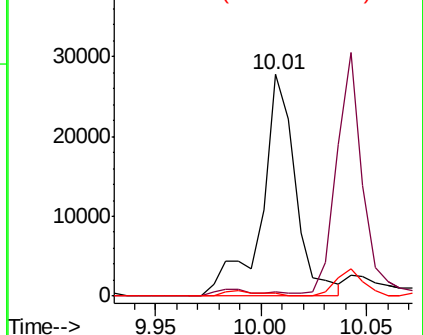
89 1.1 44.0 66.0#

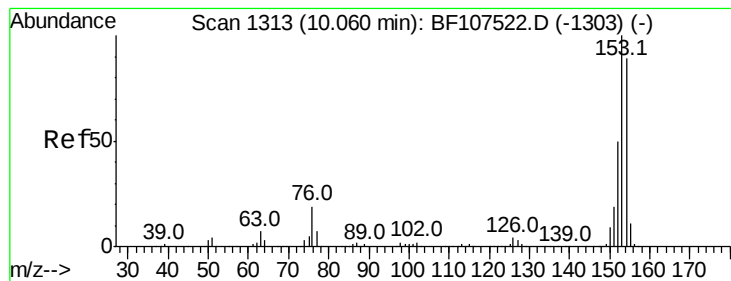


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1





#51

Acenaphthene

Concen: 23.668 ng

RT: 10.04 min Scan# 1310

Delta R.T. -0.02 min

Lab File: BF107679.D

Acq: 26 Jul 2018 2:20

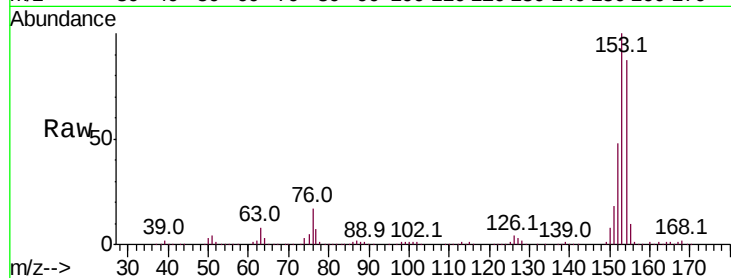
Instrument :

BNA_F

ClientSampleId :

Tot Ion:154 Resp: 306205

Ion	Ratio	Lower	Upper
154	100		
153	115.4	91.2	136.8
152	55.1	43.8	65.8

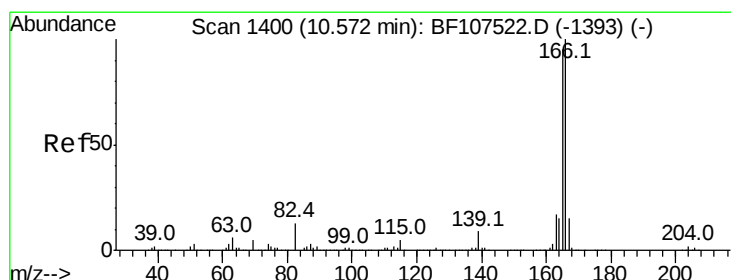
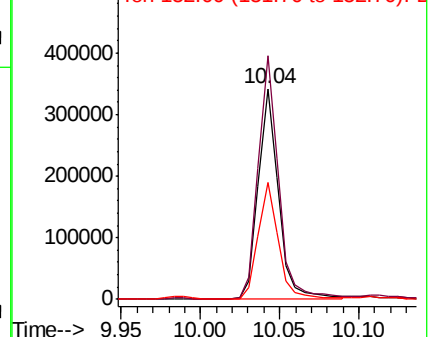
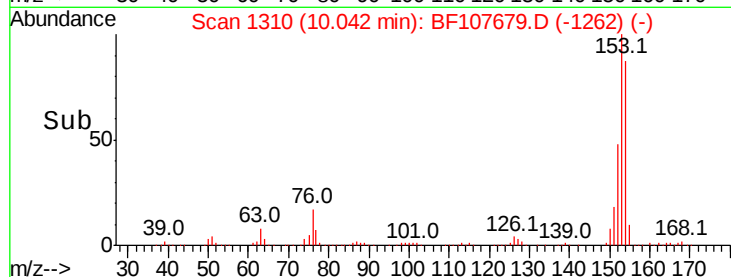


Abundance

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: 13.679 ng

RT: 10.56 min Scan# 1398

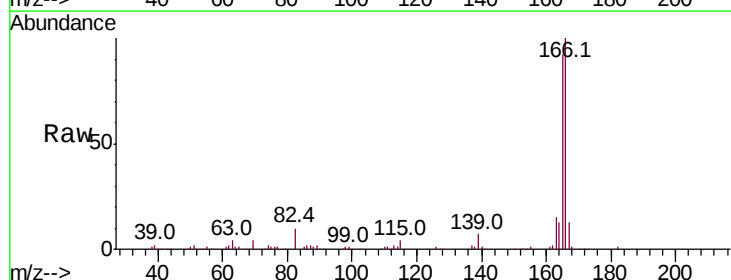
Delta R.T. -0.01 min

Lab File: BF107679.D

Acq: 26 Jul 2018 2:20

Tgt Ion:166 Resp: 185872

Ion	Ratio	Lower	Upper
166	100		
165	92.5	79.8	119.8
167	13.2	10.6	16.0

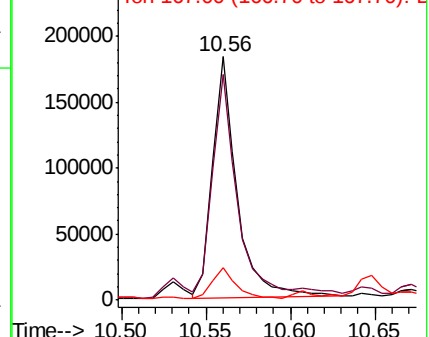
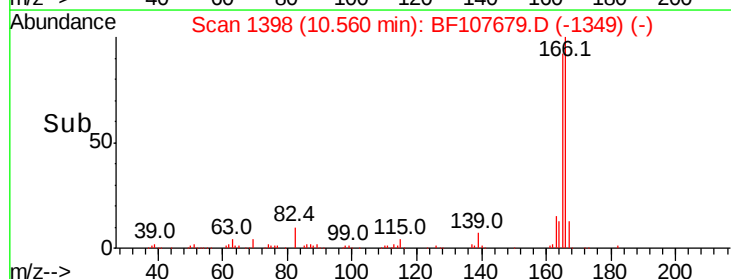


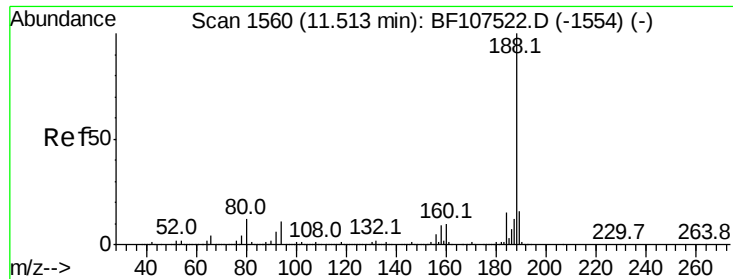
Abundance

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

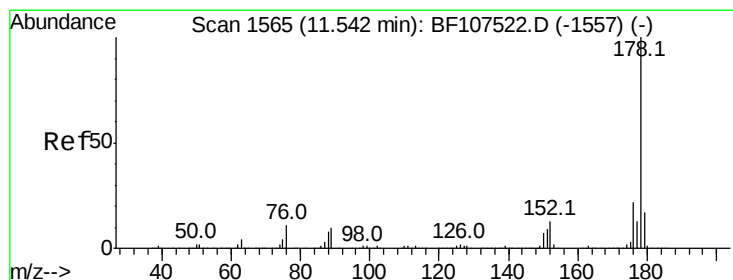
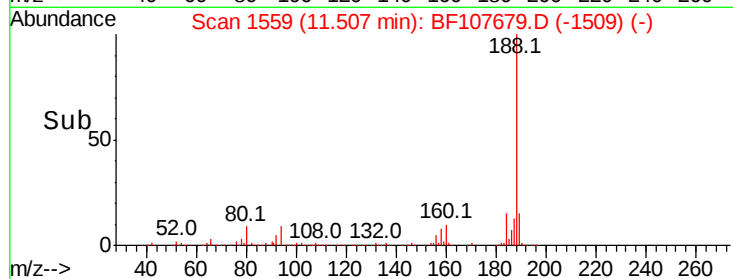
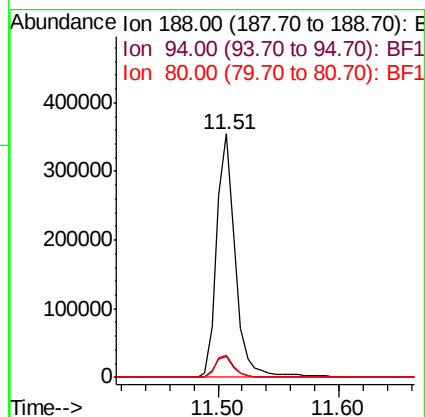
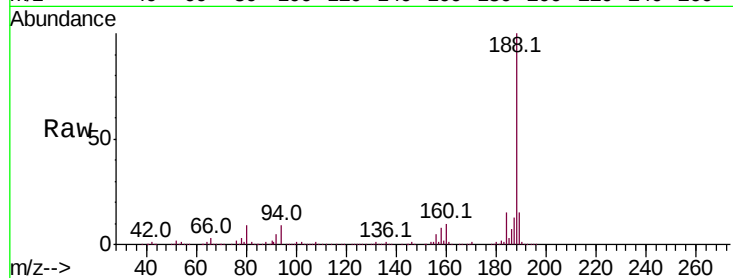




#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.51 min Scan# 1559
Delta R.T. -0.01 min
Lab File: BF107679.D
Acq: 26 Jul 2018 2:20

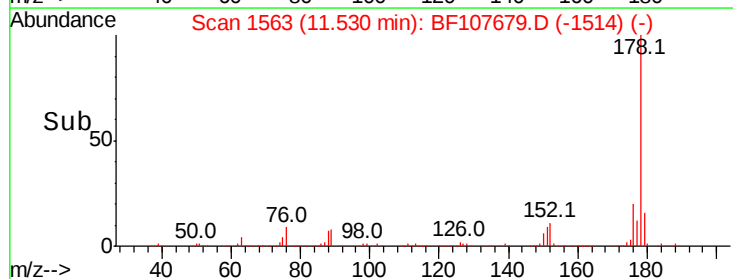
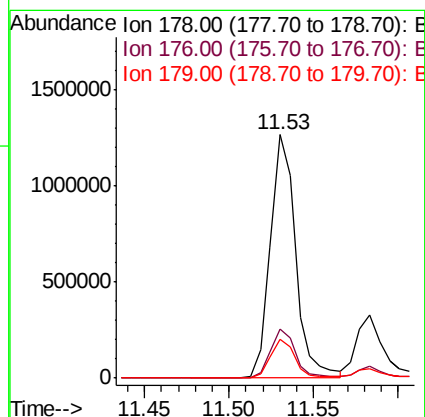
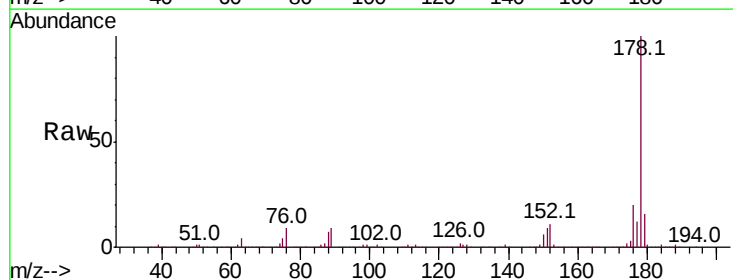
Instrument :
BNA_F
ClientSampleId :

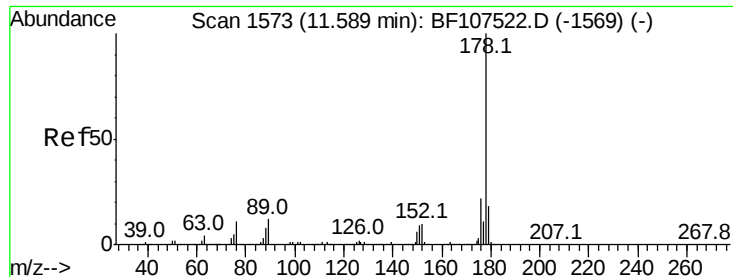
Tot Ion:188 Resp: 374021
Ion Ratio Lower Upper
188 100
94 8.6 8.5 12.7
80 9.1 9.2 13.8#



#70
Phenanthrene
Concen: 72.244 ng
RT: 11.53 min Scan# 1563
Delta R.T. -0.01 min
Lab File: BF107679.D
Acq: 26 Jul 2018 2:20

Tgt Ion:178 Resp: 1316733
Ion Ratio Lower Upper
178 100
176 19.9 15.8 23.8
179 15.9 13.0 19.6

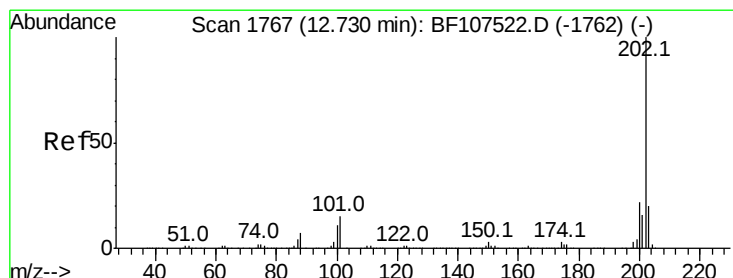
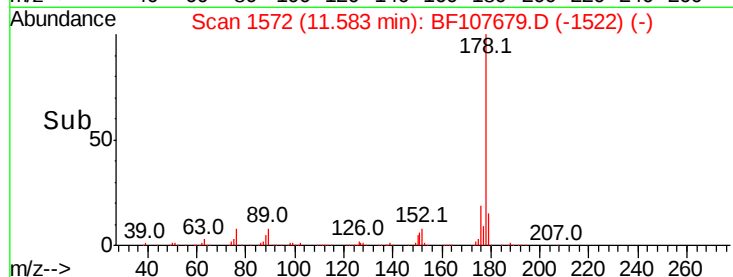
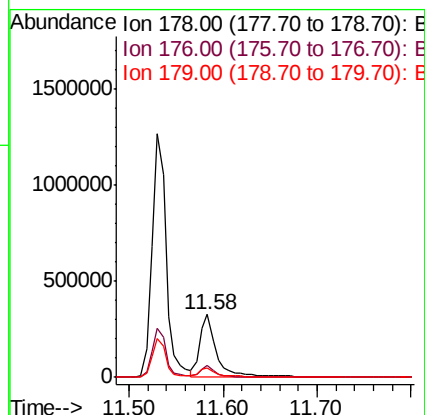
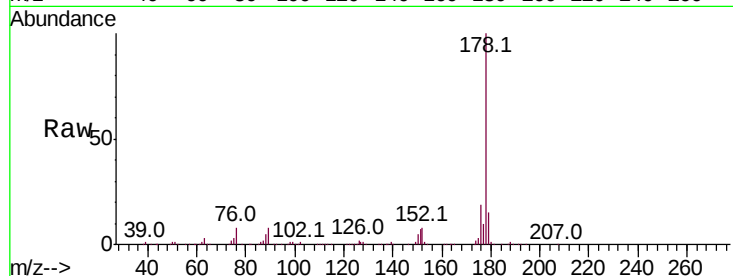




#71
 Anthracene
 Concen: 21.919 ng
 RT: 11.58 min Scan# 1572
 Delta R.T. -0.01 min
 Lab File: BF107679.D
 Acq: 26 Jul 2018 2:20

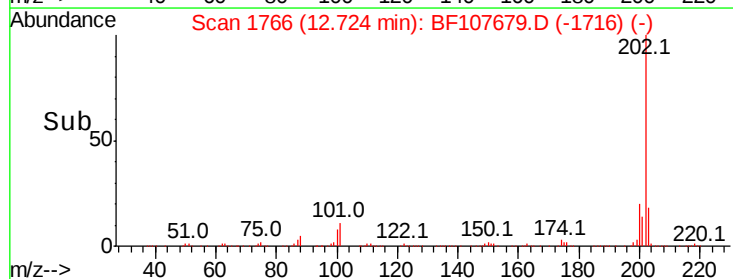
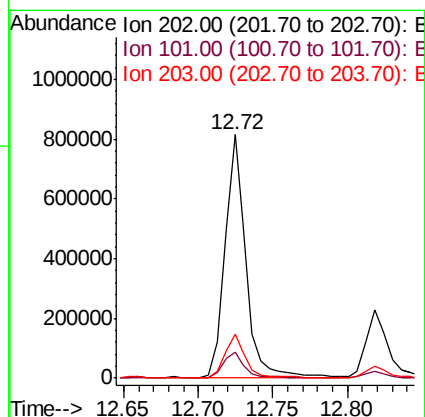
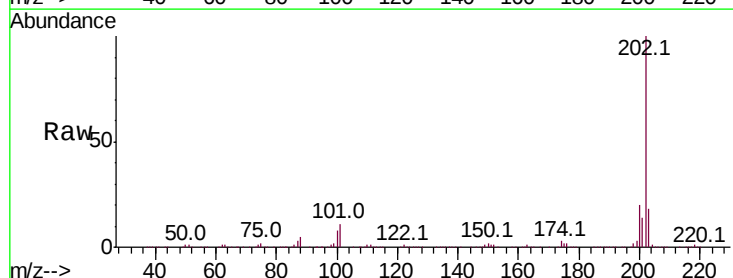
Instrument :
 BNA_F
 ClientSampleId :

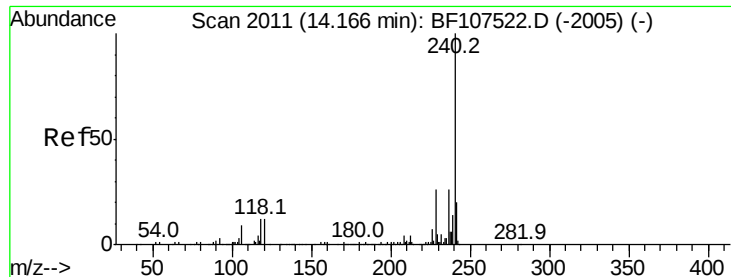
Tot Ion:178 Resp: 402237
 Ion Ratio Lower Upper
 178 100
 176 18.7 15.4 23.2
 179 15.1 12.6 19.0



#74
 Fluoranthene
 Concen: 41.203 ng
 RT: 12.72 min Scan# 1766
 Delta R.T. -0.01 min
 Lab File: BF107679.D
 Acq: 26 Jul 2018 2:20

Tgt Ion:202 Resp: 805852
 Ion Ratio Lower Upper
 202 100
 101 10.8 0.0 34.1
 203 18.0 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: BF107679.D

Acq: 26 Jul 2018 2:20

Instrument :

BNA_F

ClientSampleId :

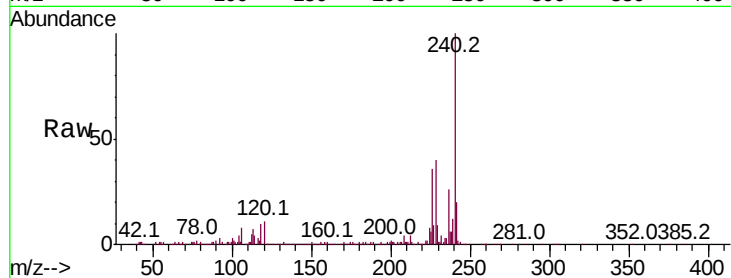
Tot Ion:240 Resp: 339902

Ion Ratio Lower Upper

240 100

120 11.2 9.5 14.3

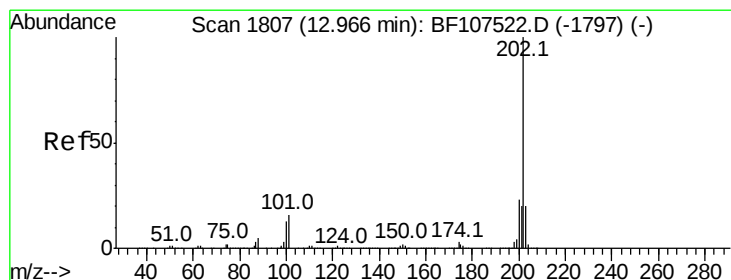
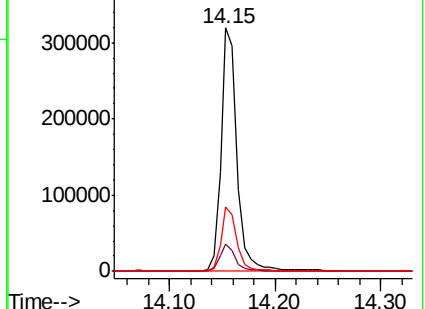
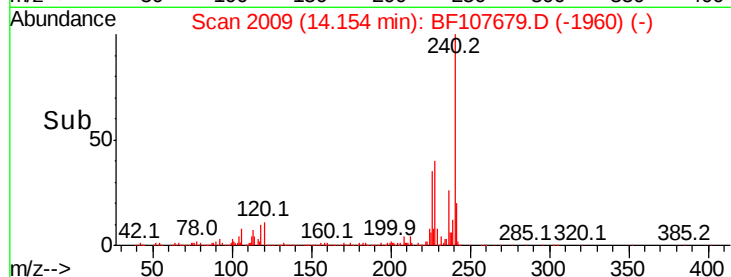
236 26.5 20.7 31.1



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

Pyrene

Concen: 43.999 ng

RT: 12.95 min Scan# 1805

Delta R.T. -0.01 min

Lab File: BF107679.D

Acq: 26 Jul 2018 2:20

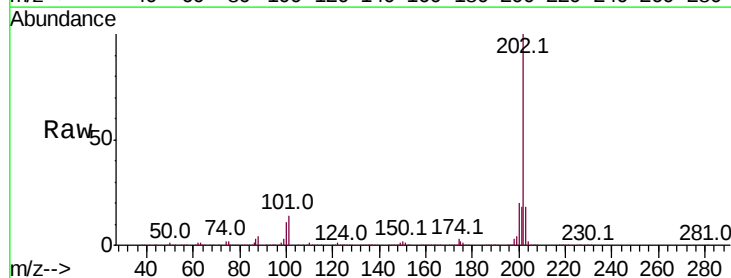
Tgt Ion:202 Resp: 1022959

Ion Ratio Lower Upper

202 100

200 20.3 17.4 26.2

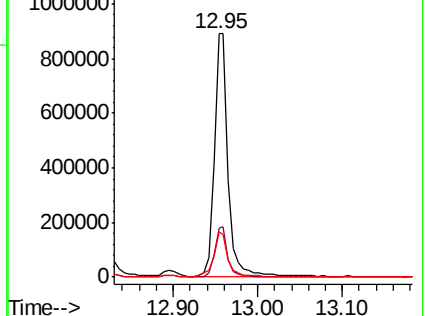
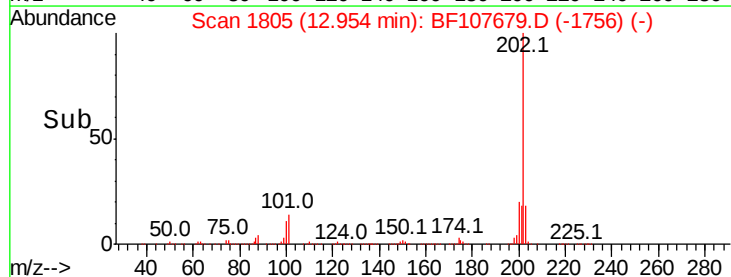
203 18.3 14.3 21.5

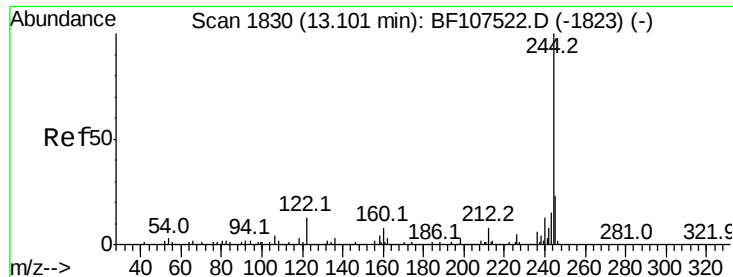


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

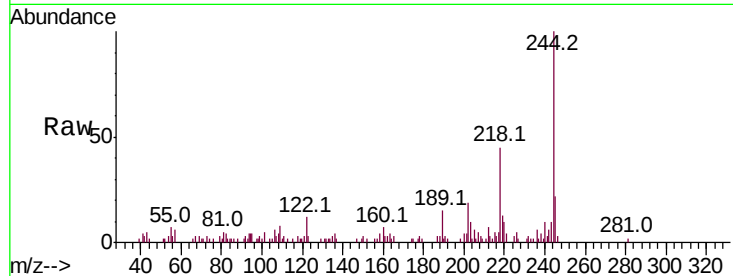




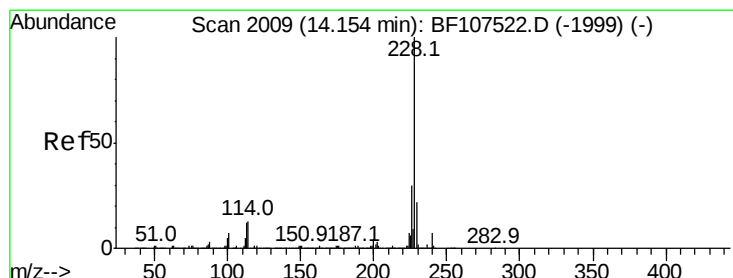
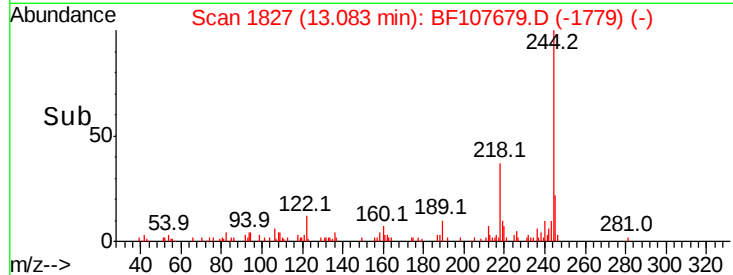
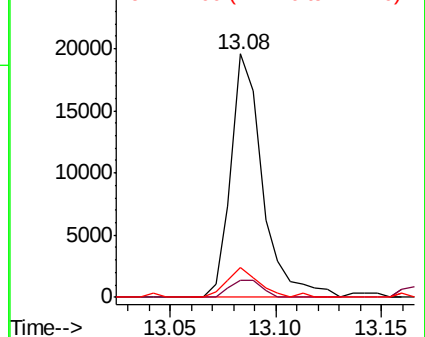
#78
 Terphenyl-d14
 Concen: 1.526 ng
 RT: 13.08 min Scan# 1827
 Delta R.T. -0.02 min
 Lab File: BF107679.D
 Acq: 26 Jul 2018 2:20

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:244 Resp: 20263
 Ion Ratio Lower Upper
 244 100
 212 6.8 5.4 8.0
 122 12.4 11.0 16.4

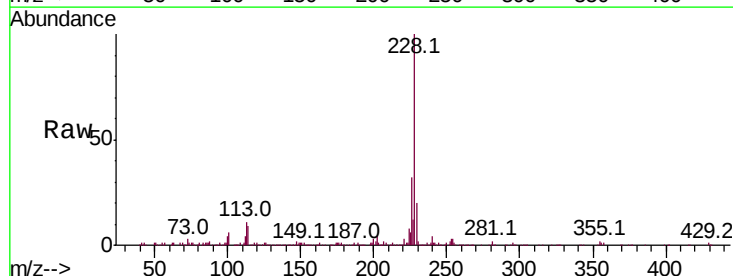


Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E

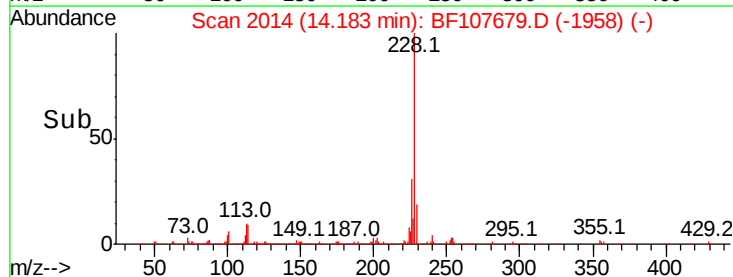
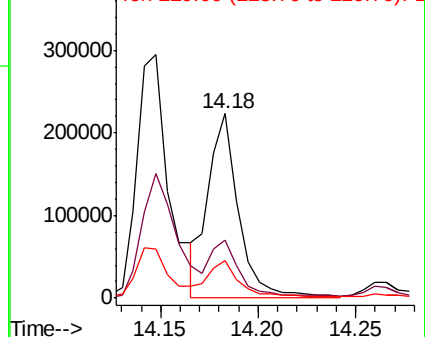


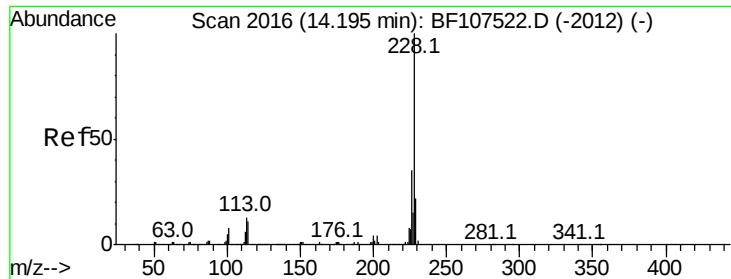
#80
 Benzo(a)anthracene
 Concen: 12.158 ng
 RT: 14.18 min Scan# 2014
 Delta R.T. 0.03 min
 Lab File: BF107679.D
 Acq: 26 Jul 2018 2:20

Tgt Ion:228 Resp: 242170
 Ion Ratio Lower Upper
 228 100
 226 31.6 22.6 33.8
 229 20.3 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

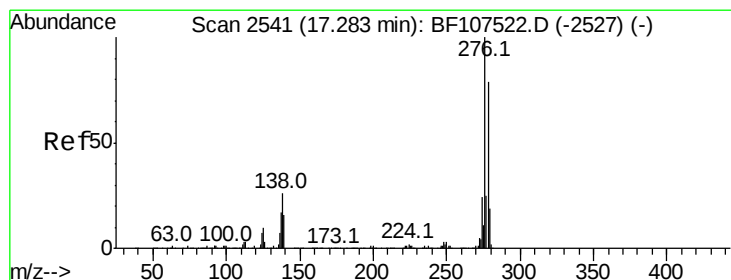
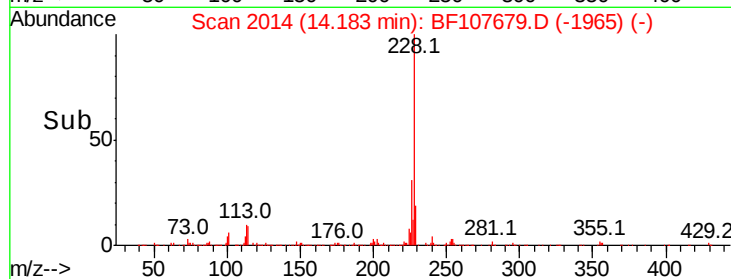
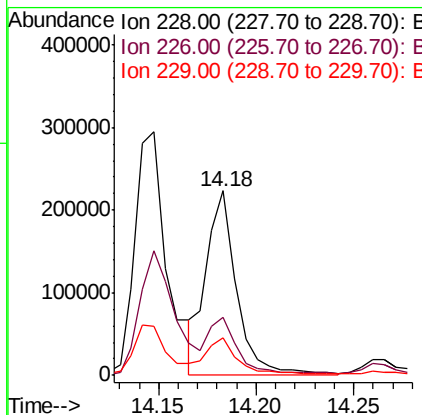
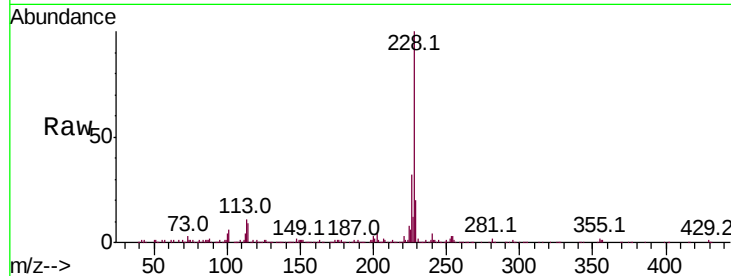




#82
Chrysene
Concen: 12.656 ng
RT: 14.18 min Scan# 2014
Delta R.T. -0.01 min
Lab File: BF107679.D
Acq: 26 Jul 2018 2:20

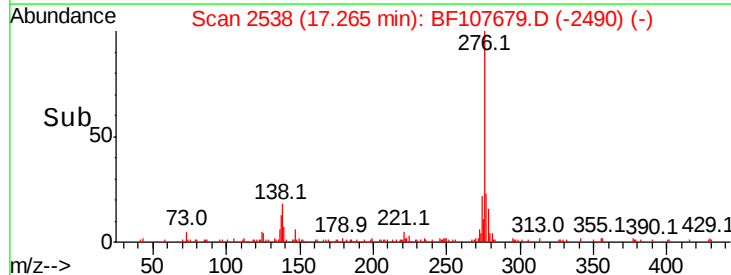
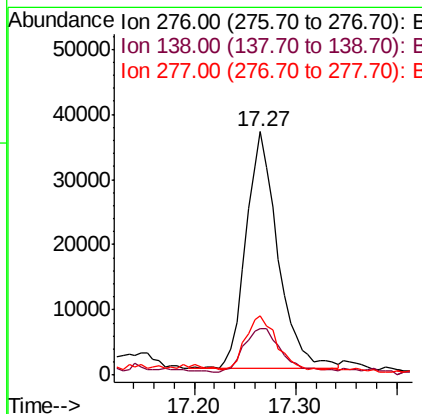
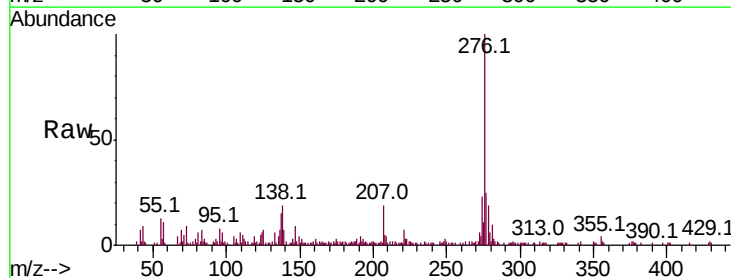
Instrument :
BNA_F
ClientSampleId :

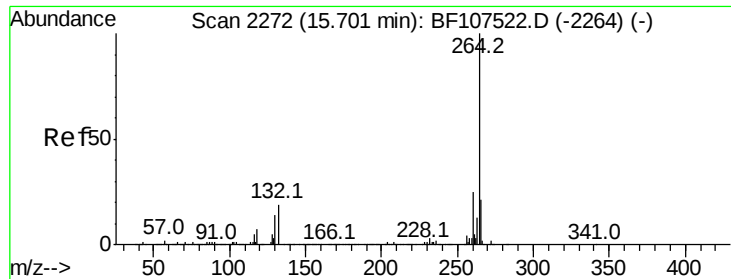
Tot Ion	Ratio	Lower	Upper
228	100		
226	31.6	25.0	37.6
229	20.3	16.2	24.4



#85
Indeno(1,2,3-cd)pyrene
Concen: 4.881 ng
RT: 17.27 min Scan# 2538
Delta R.T. -0.02 min
Lab File: BF107679.D
Acq: 26 Jul 2018 2:20

Tgt Ion	Ratio	Lower	Upper
276	100		
138	22.0	25.0	37.6#
277	24.4	20.1	30.1

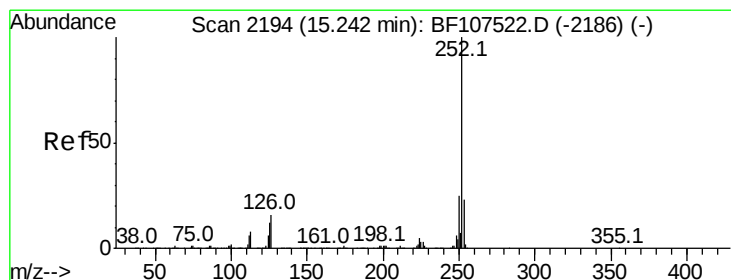
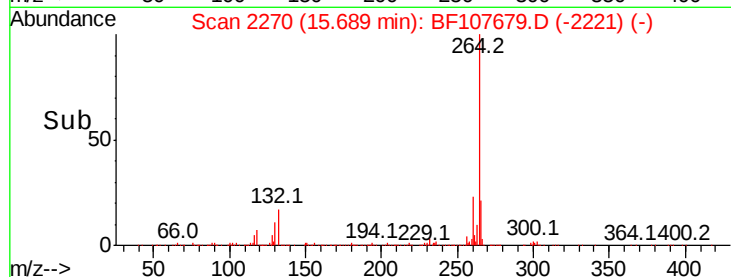
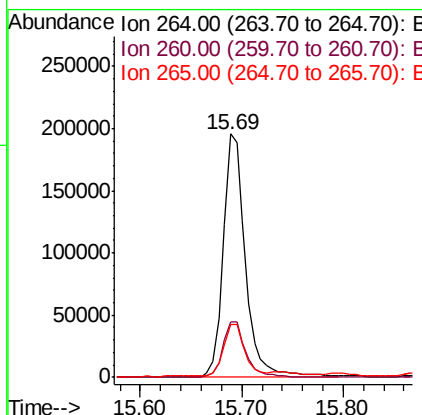
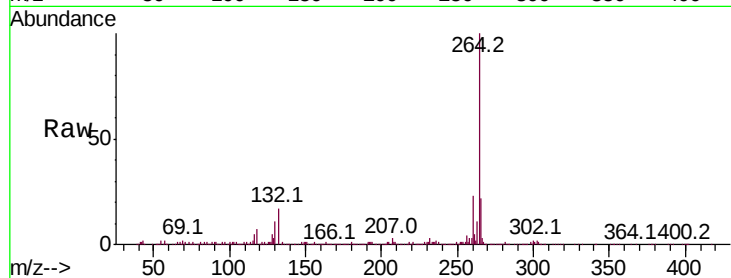




#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.69 min Scan# 2270
Delta R.T. -0.01 min
Lab File: BF107679.D
Acq: 26 Jul 2018 2:20

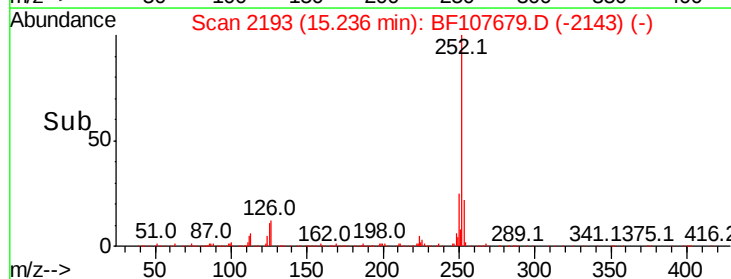
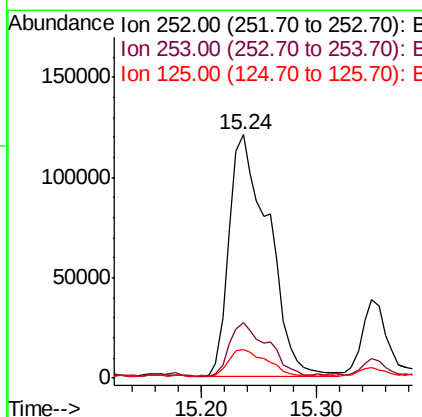
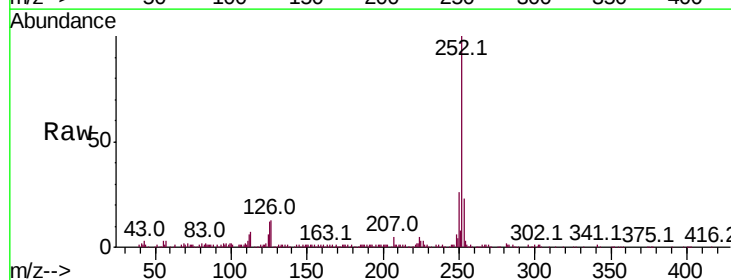
Instrument :
BNA_F
ClientSampleId :

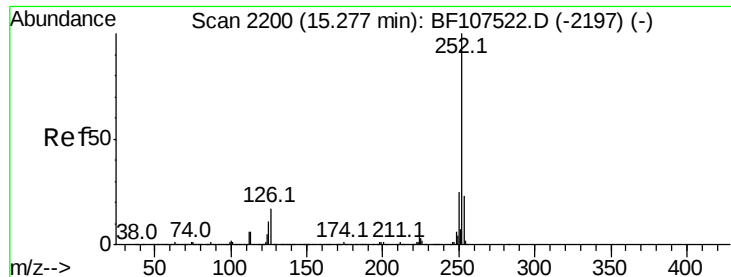
Tot Ion	Ratio	Lower	Upper
264	100		
260	22.9	19.2	28.8
265	21.5	17.5	26.3



#87
Benzo(b)fluoranthene
Concen: 17.768 ng
RT: 15.24 min Scan# 2193
Delta R.T. -0.01 min
Lab File: BF107679.D
Acq: 26 Jul 2018 2:20

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.0	25.6
125	11.8	9.0	13.6

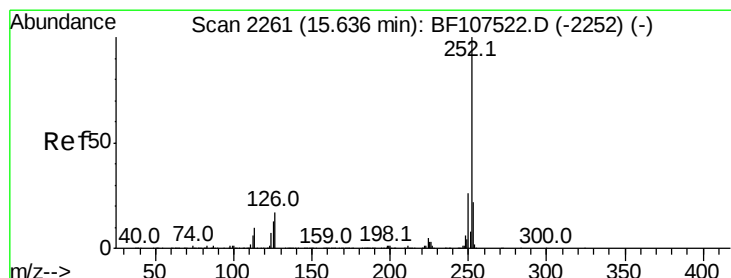
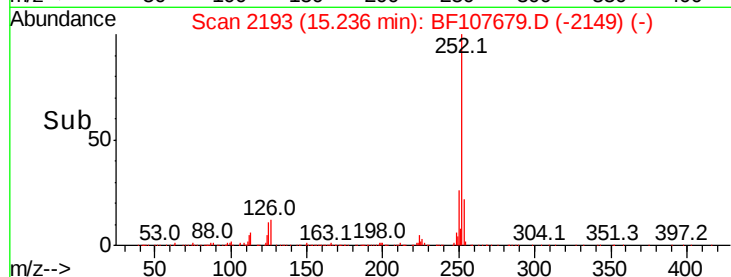
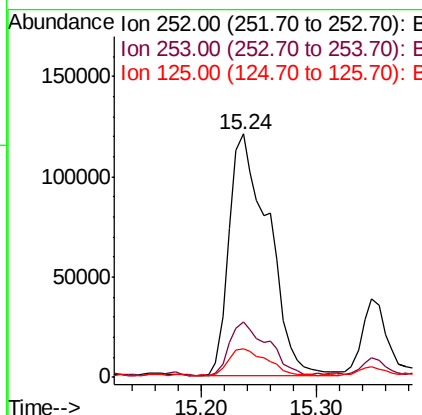
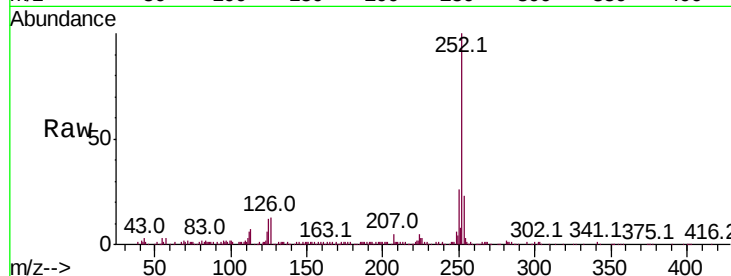




#88
Benzo(k)fluoranthene
Concen: 18.136 ng
RT: 15.24 min Scan# 2193
Delta R.T. -0.04 min
Lab File: BF107679.D
Acq: 26 Jul 2018 2:20

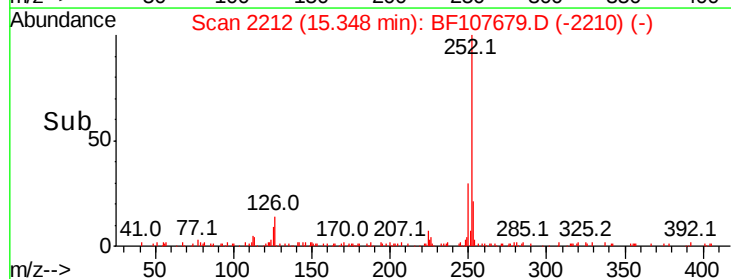
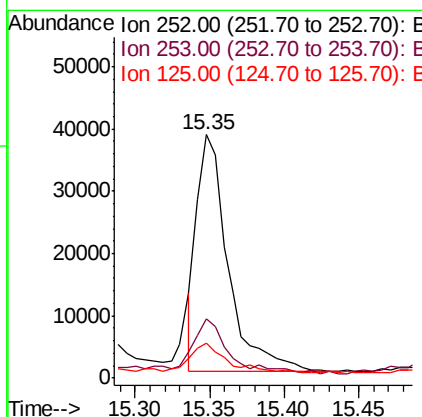
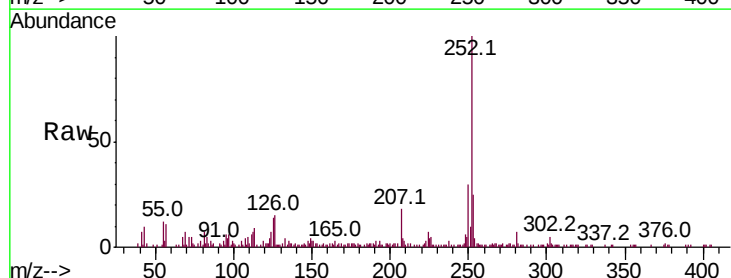
Instrument :
BNA_F
ClientSampleId :

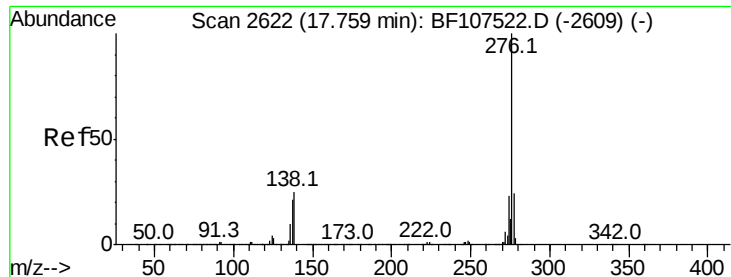
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.9	26.9
125	11.8	10.2	15.2



#89
Benzo(a)pyrene
Concen: 3.683 ng
RT: 15.35 min Scan# 2212
Delta R.T. -0.29 min
Lab File: BF107679.D
Acq: 26 Jul 2018 2:20

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.6	17.1	25.7
125	14.1	9.8	14.6





#91
 Benzo(a,h,i)perylene
 Concen: 6.136 ng
 RT: 17.75 min Scan# 2620
 Delta R.T. -0.01 min
 Lab File: BF107679.D
 Acq: 26 Jul 2018 2:20

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ion	Ratio	Lower	Upper
276	100			
277	23.3	17.9	26.9	
138	23.6	21.8	32.8	

