

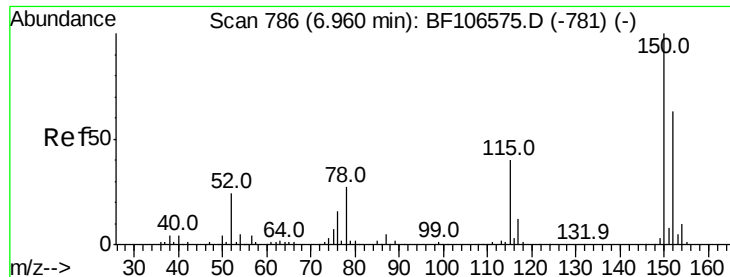
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF063018\
 Data File : BF107009.D
 Acq On : 30 Jun 2018 12:49
 Operator : JU/SJ
 Sample : J3248-07 5X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jul 02 04:04:28 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 29 14:38:29 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.95	152	66640	20.00	ng	-0.01
21) Naphthalene-d8	8.24	136	238991	20.00	ng	-0.01
38) Acenaphthene-d10	9.99	164	99757	20.00	ng	-0.02
63) Phenanthrene-d10	11.48	188	176718	20.00	ng	-0.02
75) Chrysene-d12	14.14	240	227958	20.00	ng	-0.02
86) Perylene-d12	15.68	264	184543	20.00	ng	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.59	112	100100	25.44	ng	-0.01
7) Phenol-d6	6.60	99	120432	24.50	ng	-0.02
23) Nitrobenzene-d5	7.51	82	68481	15.92	ng	-0.02
41) 2,4,6-Tribromophenol	10.78	330	25235	21.83	ng	-0.02
44) 2-Fluorobiphenyl	9.30	172	126230	8.07	ng	-0.02
78) Terphenyl-d14	13.07	244	146612	15.58	ng	-0.01
Target Compounds						
19) n-Nitroso-di-n-propylamine	7.51	70	9223	2.847	ng	# 74
25) Isophorone	7.51	82	68480	9.037	ng	# 64
50) 2,6-Dinitrotoluene	9.99	165	14674	9.262	ng	# 24
55) 4-Nitrophenol	10.20	139	3644	2.864	ng	# 26
57) Fluorene	10.54	166	18608	2.753	ng	# 95
70) Phenanthrene	11.51	178	130936	15.362	ng	98
71) Anthracene	11.56	178	36201	4.161	ng	99
72) Carbazole	11.72	167	17434	2.140	ng	99
74) Fluoranthene	12.71	202	174291	18.552	ng	94
77) Pyrene	12.94	202	169705	11.289	ng	98
80) Benzo(a)anthracene	14.13	228	97426	7.012	ng	97
82) Chrysene	14.17	228	86353	6.756	ng	96
85) Indeno(1,2,3-cd)pyrene	17.26	276	29115	2.684	ng	# 86
87) Benzo(b)fluoranthene	15.23	252	121536	10.602	ng	94
88) Benzo(k)fluoranthene	15.23	252	121536	11.133	ng	94
89) Benzo(a)pyrene	15.62	252	66511	6.526	ng	95
91) Benzo(a,h,i)perylene	17.74	276	30059	3.561	ng	# 90

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

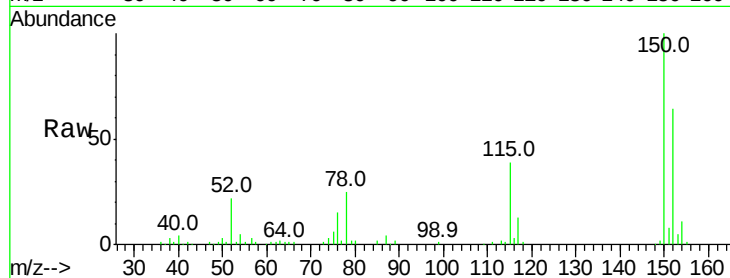


#1

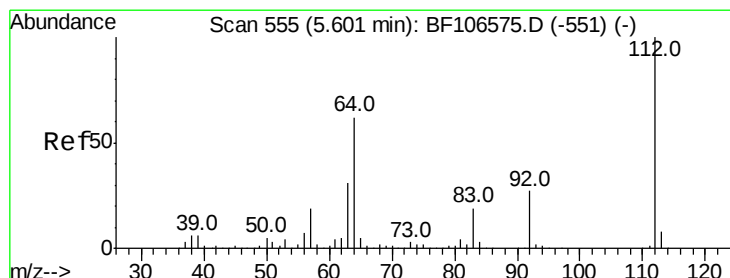
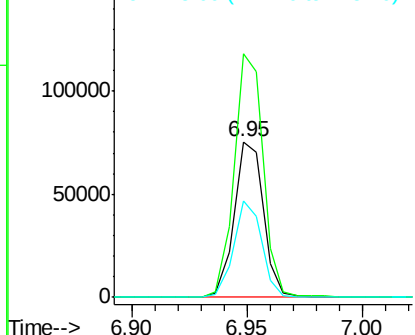
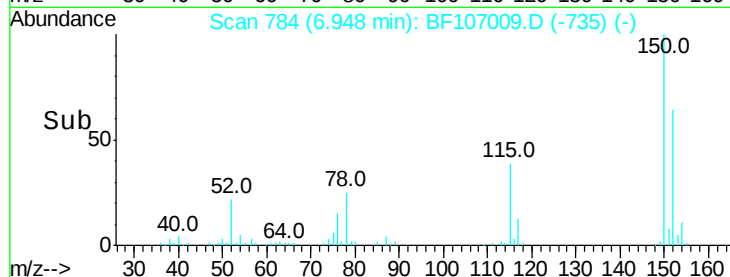
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.95 min Scan# 784
Delta R.T. -0.01 min
Lab File: BF107009.D
Acq: 30 Jun 2018 12:49

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 66640
Ion Ratio Lower Upper
152 100
150 156.3 124.6 186.8
115 61.6 50.1 75.1



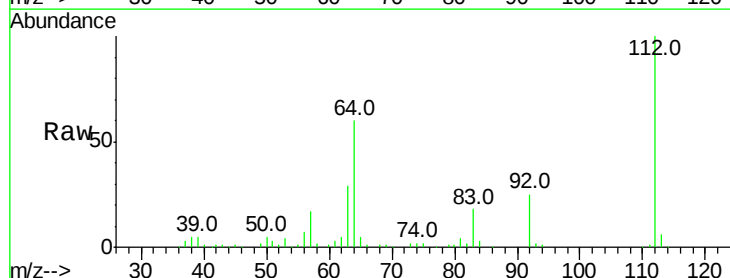
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



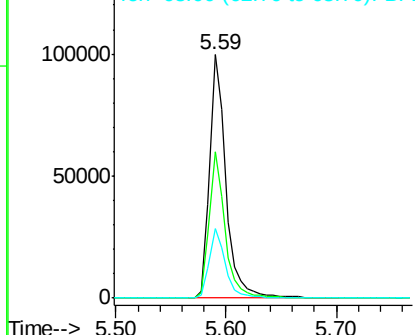
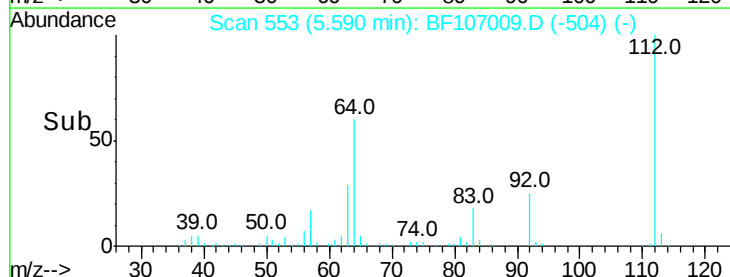
#5

2-Fluorophenol
Concen: 25.435 ng
RT: 5.59 min Scan# 553
Delta R.T. -0.01 min
Lab File: BF107009.D
Acq: 30 Jun 2018 12:49

Tgt Ion:112 Resp: 100100
Ion Ratio Lower Upper
112 100
64 60.0 47.9 71.9
63 28.6 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: 24.505 ng

RT: 6.60 min Scan# 724

Delta R.T. -0.02 min

Lab File: BF107009.D

Acq: 30 Jun 2018 12:49

Instrument :

BNA_F

ClientSampleId :

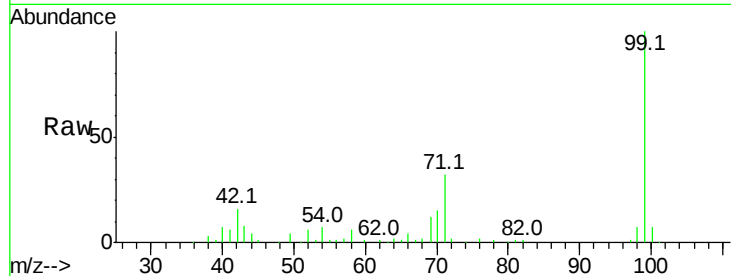
Tot Ion: 99 Resp: 120432

Ion Ratio Lower Upper

99 100

42 16.1 14.5 21.7

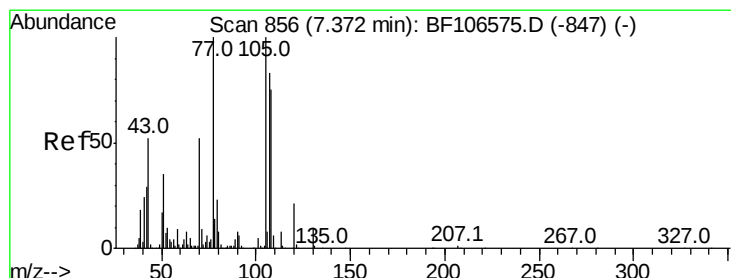
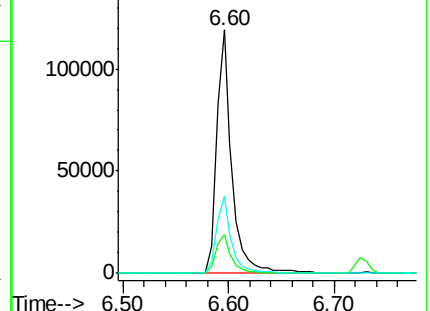
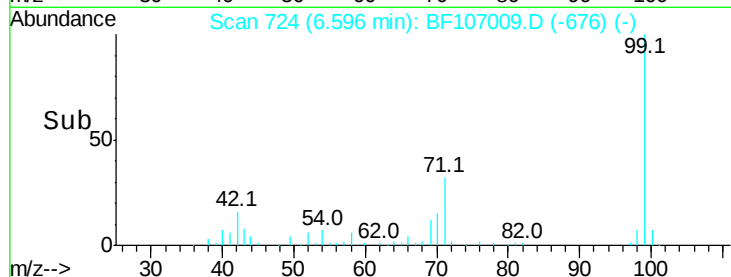
71 31.8 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 2.847 ng

RT: 7.51 min Scan# 880

Delta R.T. 0.13 min

Lab File: BF107009.D

Acq: 30 Jun 2018 12:49

Tgt Ion: 70 Resp: 9223

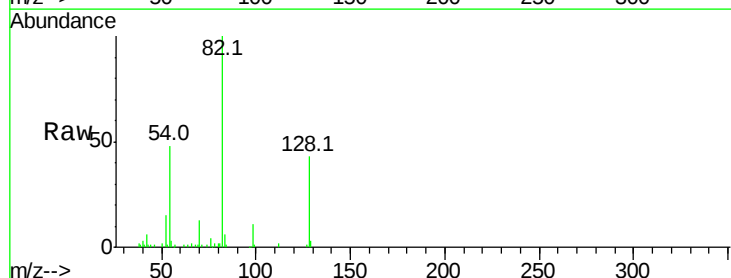
Ion Ratio Lower Upper

70 100

42 44.4 47.5 71.3#

101 0.0 7.4 11.2#

130 0.0 16.6 25.0#

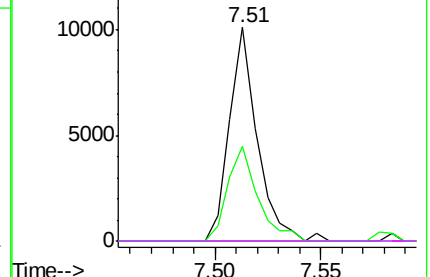
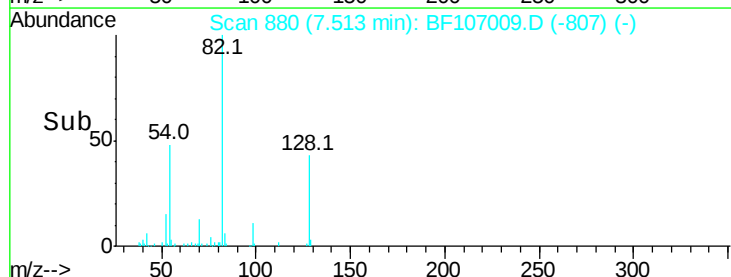


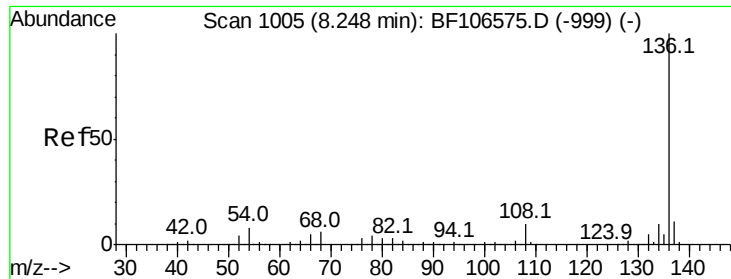
Abundance Ion 70.00 (69.70 to 70.70): BF1

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

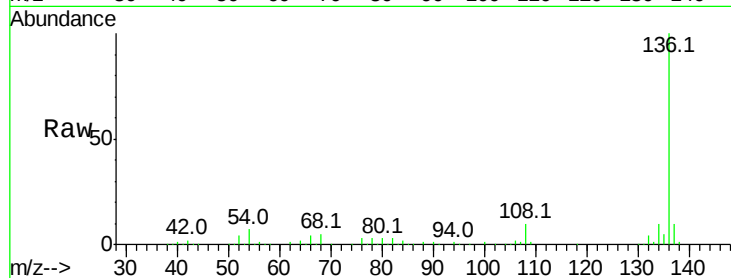




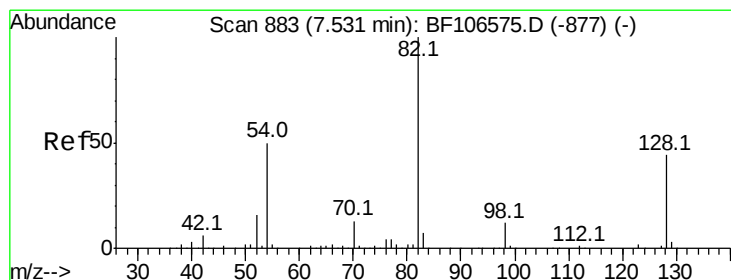
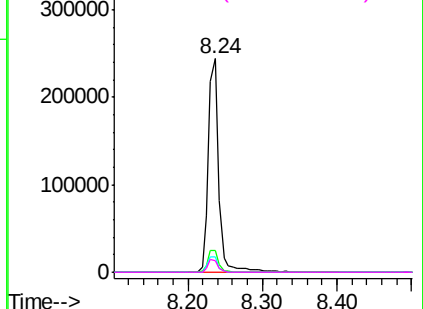
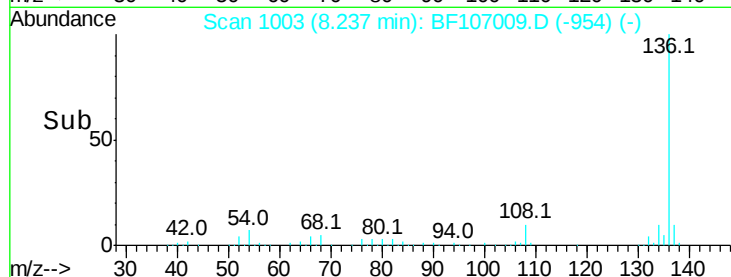
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.24 min Scan# 1003
Delta R.T. -0.01 min
Lab File: BF107009.D
Acq: 30 Jun 2018 12:49

Instrument :
BNA_F
ClientSampleId :

Tot Ion:	136	Resp:	238991
Ion	Ratio	Lower	Upper
136	100		
137	10.4	8.9	13.3
54	7.3	6.6	9.8
68	5.4	5.0	7.4

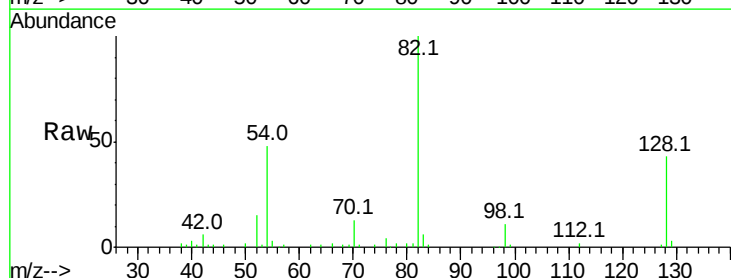


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

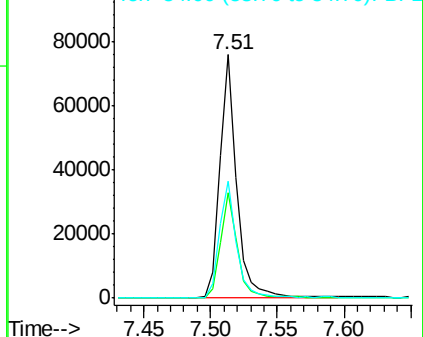
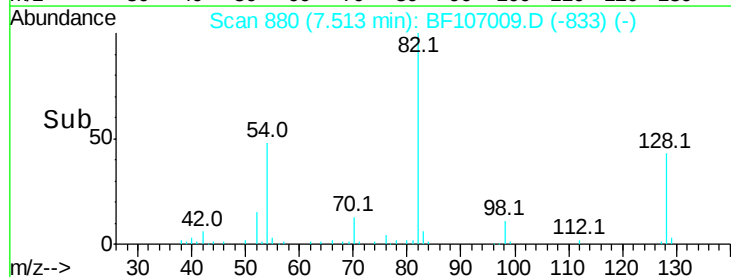


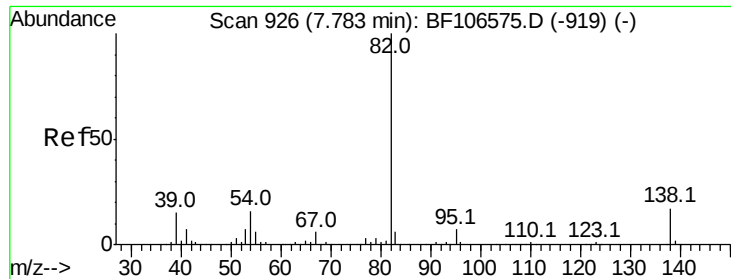
#23
Nitrobenzene-d5
Concen: 15.924 ng
RT: 7.51 min Scan# 880
Delta R.T. -0.02 min
Lab File: BF107009.D
Acq: 30 Jun 2018 12:49

Tgt Ion:	82	Resp:	68481
Ion	Ratio	Lower	Upper
82	100		
128	43.4	36.1	54.1
54	47.8	41.4	62.2



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





#25

Isophorone

Concen: 9.037 ng

RT: 7.51 min Scan# 880

Delta R.T. -0.28 min

Lab File: BF107009.D

Acq: 30 Jun 2018 12:49

Instrument :

BNA_F

ClientSampled :

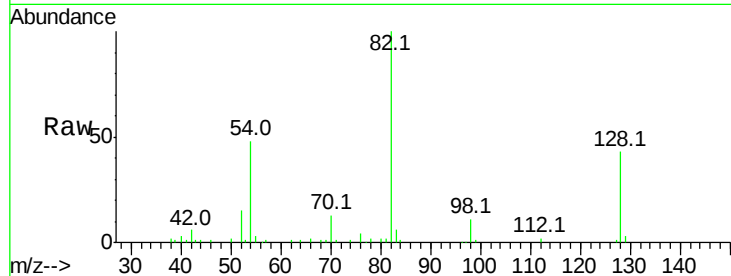
Tot Ion: 82 Resp: 68480

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

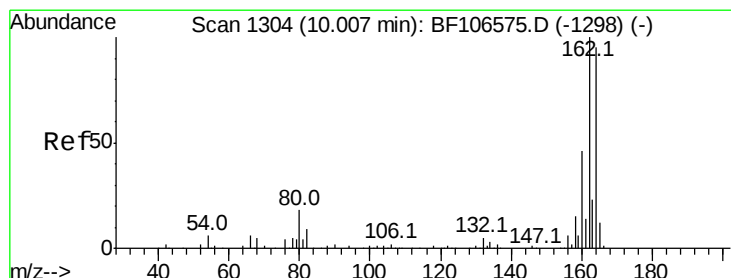
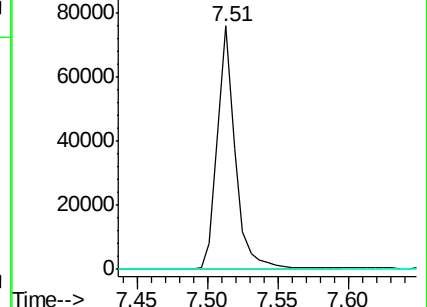
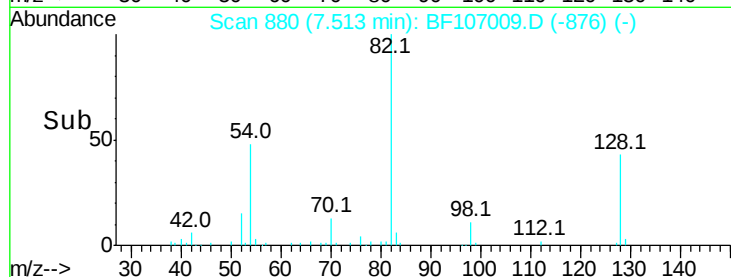
138 0.0 14.9 22.3#



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: 9.99 min Scan# 1301

Delta R.T. -0.02 min

Lab File: BF107009.D

Acq: 30 Jun 2018 12:49

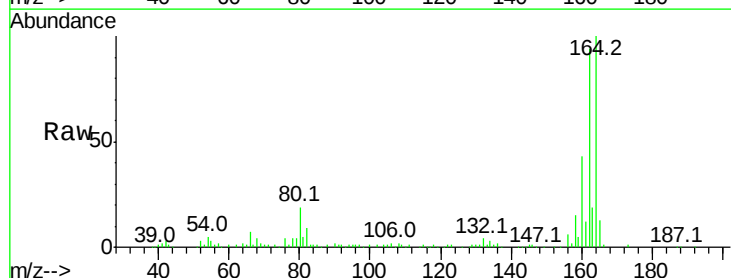
Tgt Ion:164 Resp: 99757

Ion Ratio Lower Upper

164 100

162 94.4 86.1 129.1

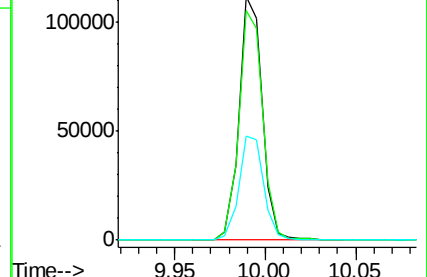
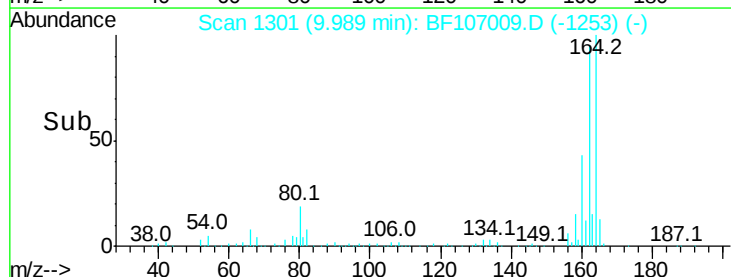
160 42.9 38.3 57.5

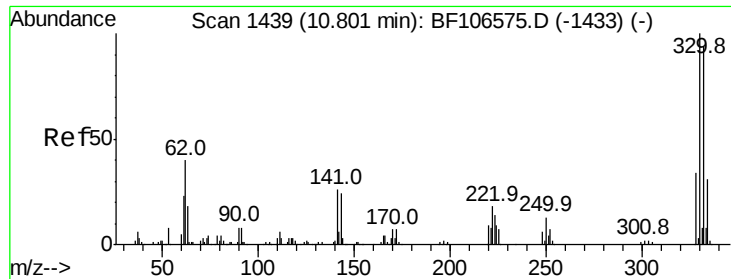


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

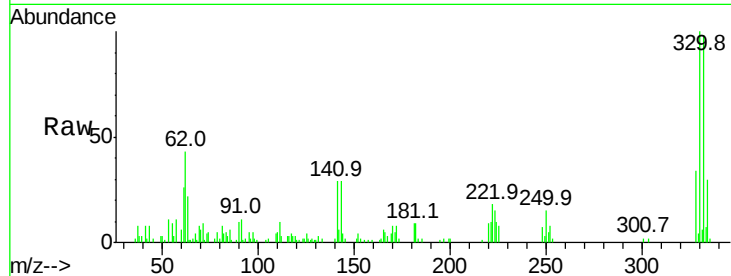




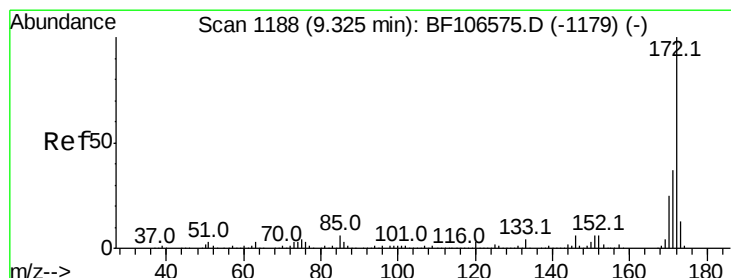
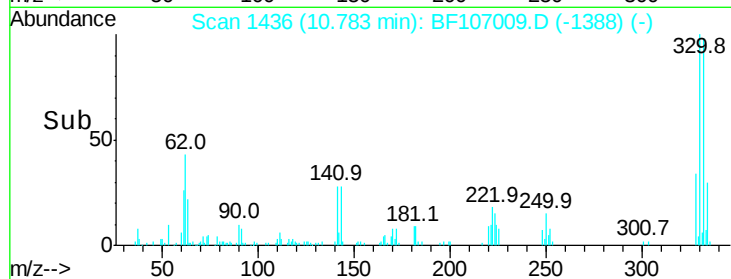
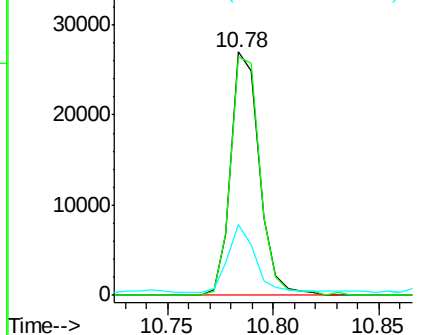
#41
 2,4,6-Tribromophenol
 Concen: 21.826 ng
 RT: 10.78 min Scan# 1436
 Delta R.T. -0.02 min
 Lab File: BF107009.D
 Acq: 30 Jun 2018 12:49

Instrument :
 BNA_F
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
330	100		
332	100.7	77.0	115.6
141	26.6	29.9	44.9#

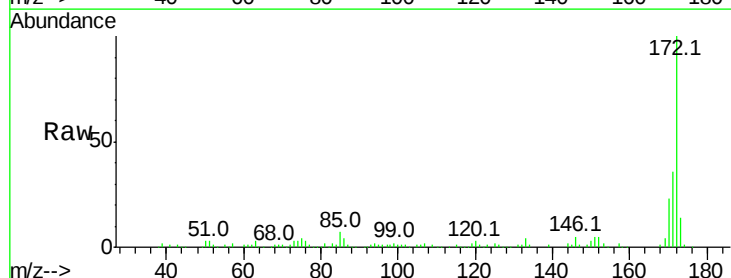


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

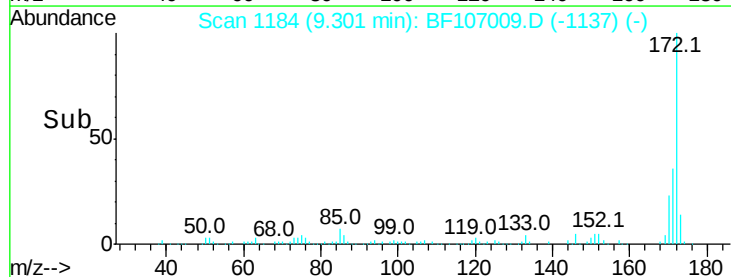
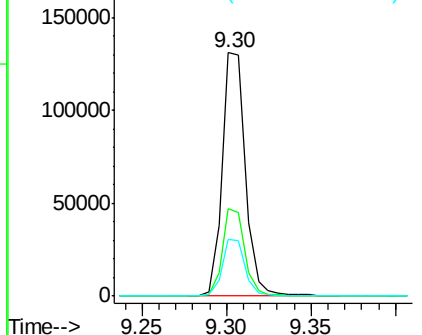


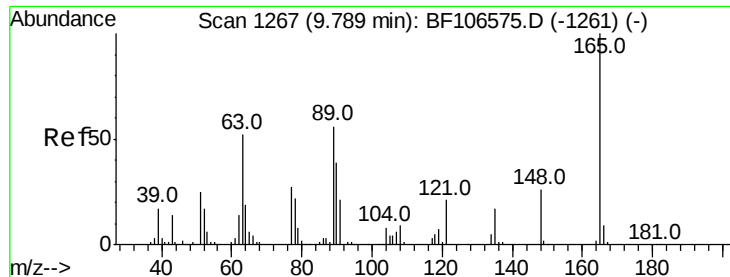
#44
 2-Fluorobiphenyl
 Concen: 8.067 ng
 RT: 9.30 min Scan# 1184
 Delta R.T. -0.02 min
 Lab File: BF107009.D
 Acq: 30 Jun 2018 12:49

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.9	29.7	44.5
170	23.4	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

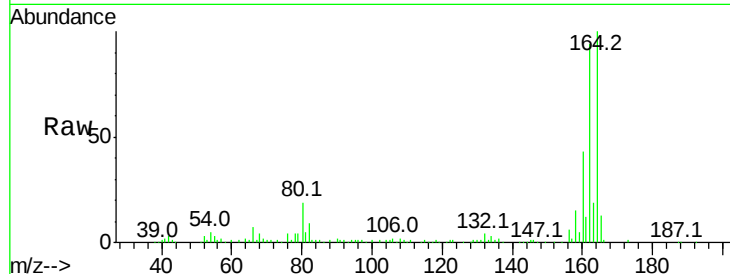




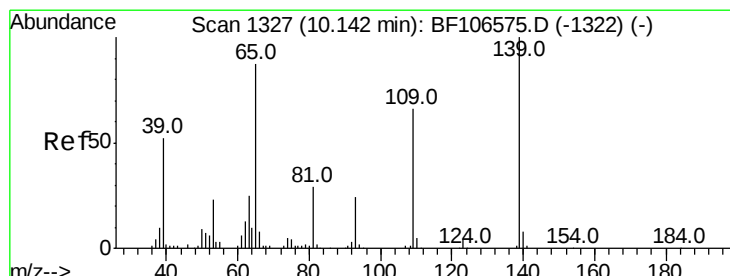
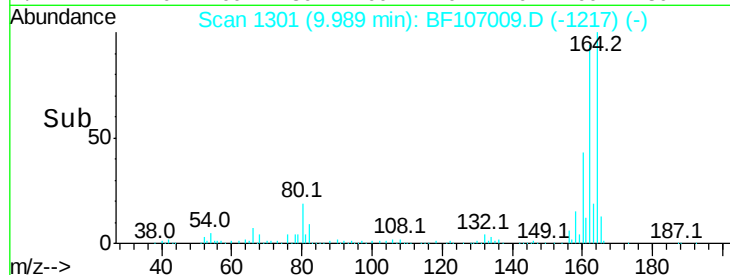
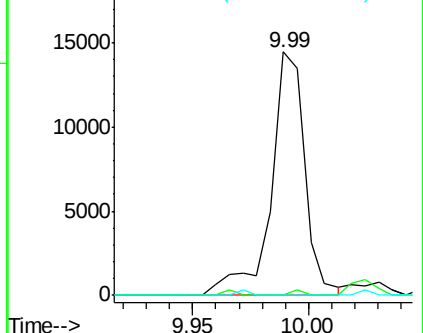
#50
 2,6-Dinitrotoluene
 Concen: 9.262 ng
 RT: 9.99 min Scan# 1301
 Delta R.T. 0.19 min
 Lab File: BF107009.D
 Acq: 30 Jun 2018 12:49

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	0.0	44.7	67.1#
89	0.0	44.0	66.0#

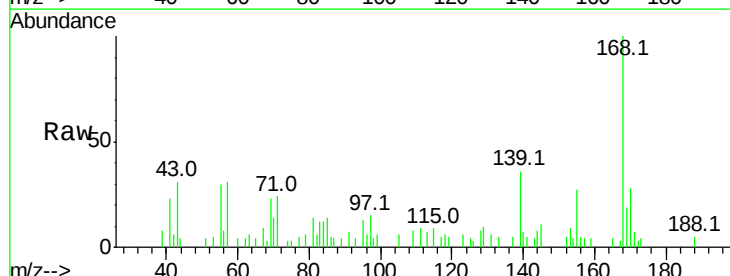


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF1
 Ion 89.00 (88.70 to 89.70): BF1

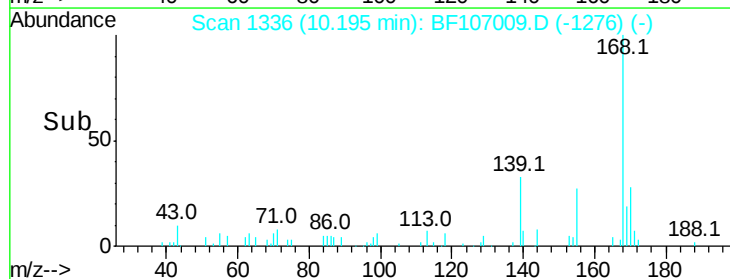
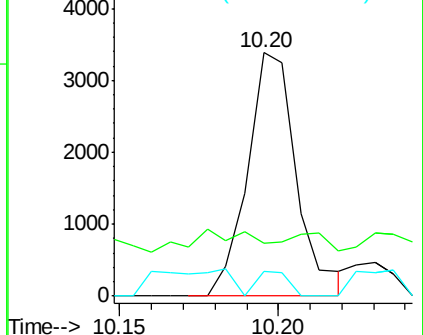


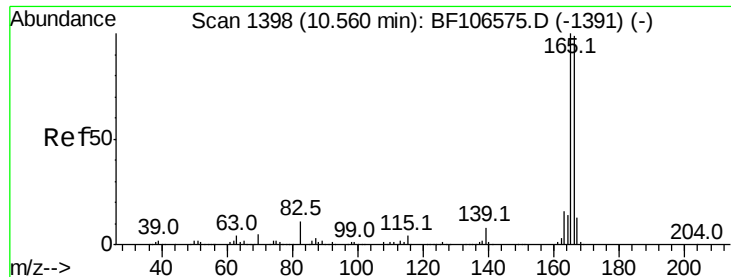
#55
 4-Nitrophenol
 Concen: 2.864 ng
 RT: 10.20 min Scan# 1336
 Delta R.T. 0.05 min
 Lab File: BF107009.D
 Acq: 30 Jun 2018 12:49

Tgt Ion	Ratio	Lower	Upper
139	100		
109	21.6	48.4	88.4#
65	10.0	72.6	112.6#



Abundance Ion 139.00 (138.70 to 139.70): E
 Ion 109.00 (108.70 to 109.70): E
 Ion 65.00 (64.70 to 65.70): BF1

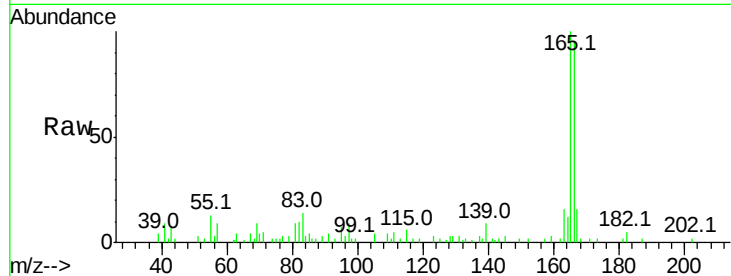




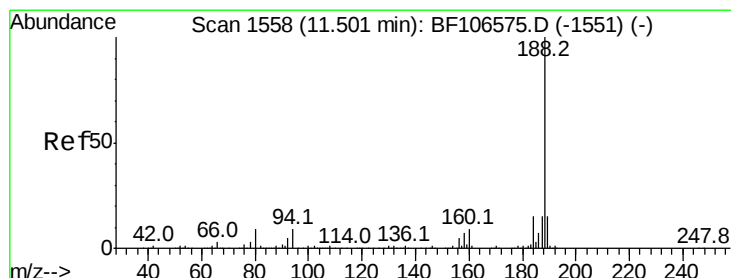
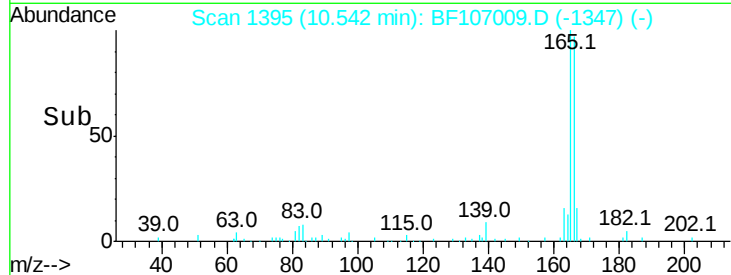
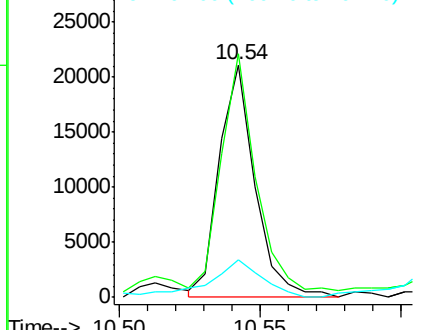
#57
 Fluorene
 Concen: 2.753 ng
 RT: 10.54 min Scan# 1395
 Delta R.T. -0.02 min
 Lab File: BF107009.D
 Acq: 30 Jun 2018 12:49

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:166 Resp: 18608
 Ion Ratio Lower Upper
 166 100
 165 104.7 79.8 119.8
 167 16.3 10.6 16.0#

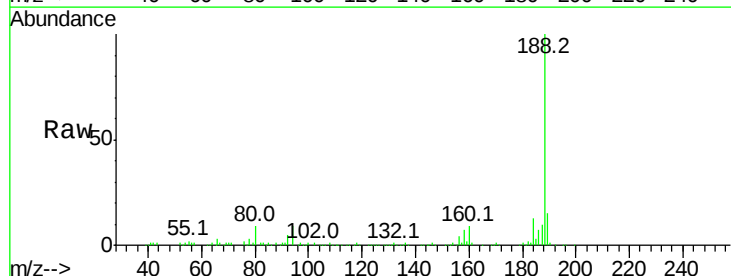


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

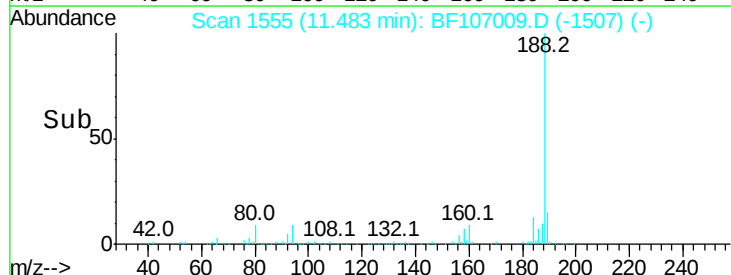
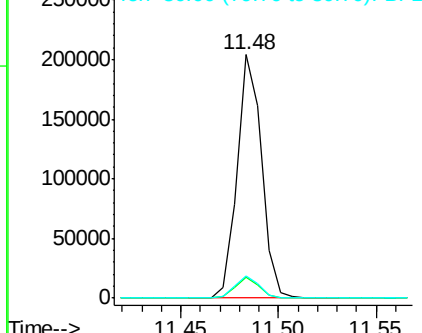


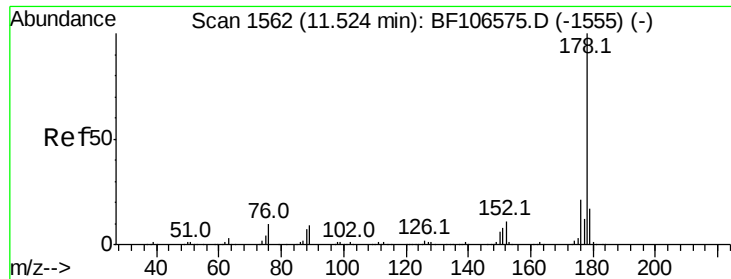
#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.48 min Scan# 1555
 Delta R.T. -0.02 min
 Lab File: BF107009.D
 Acq: 30 Jun 2018 12:49

Tgt Ion:188 Resp: 176718
 Ion Ratio Lower Upper
 188 100
 94 8.6 8.5 12.7
 80 8.9 9.2 13.8#



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





#70

Phenanthrene

Concen: 15.362 ng

RT: 11.51 min Scan# 1559

Delta R.T. -0.02 min

Lab File: BF107009.D

Acq: 30 Jun 2018 12:49

Instrument :

BNA_F

ClientSampleId :

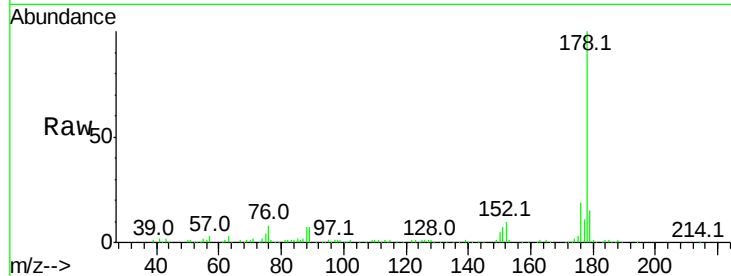
Tot Ion:178 Resp: 130936

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.8	23.8
179	15.4	13.0	19.6

178 100

176 19.3 15.8 23.8

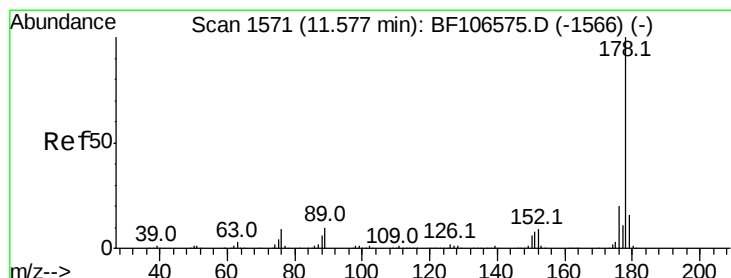
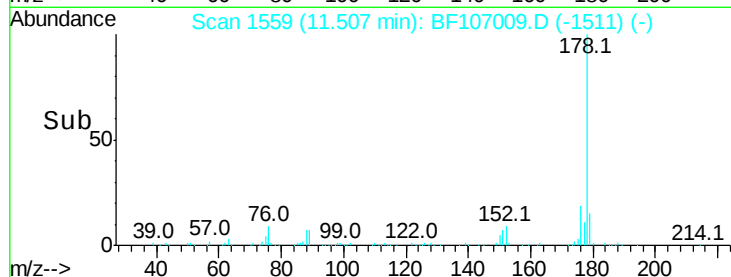
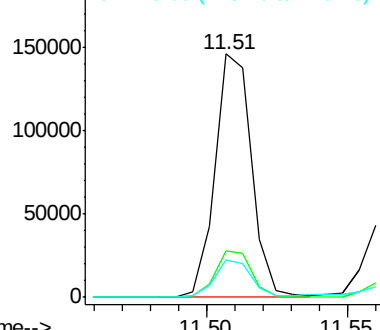
179 15.4 13.0 19.6



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 4.161 ng

RT: 11.56 min Scan# 1568

Delta R.T. -0.02 min

Lab File: BF107009.D

Acq: 30 Jun 2018 12:49

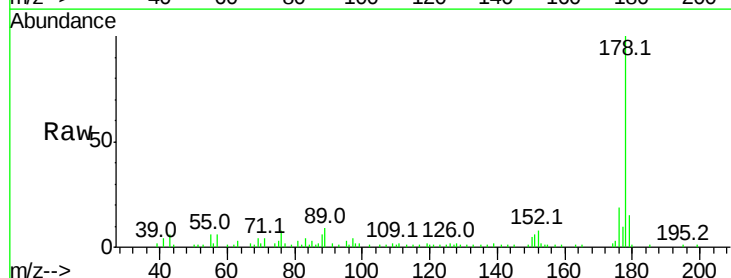
Tgt Ion:178 Resp: 36201

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.4	23.2
179	15.2	12.6	19.0

178 100

176 19.5 15.4 23.2

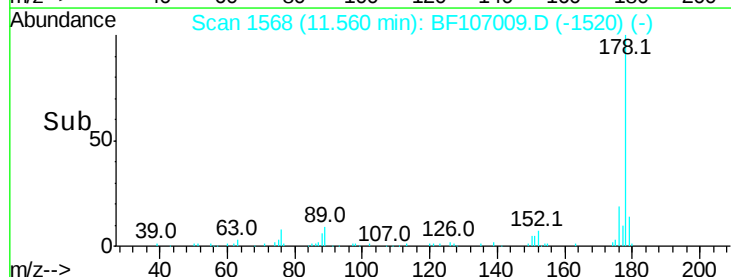
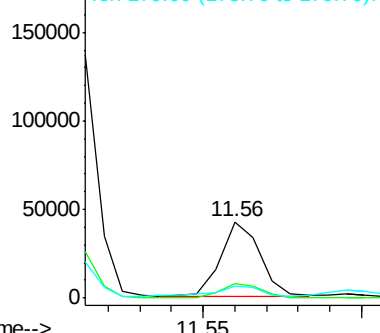
179 15.2 12.6 19.0

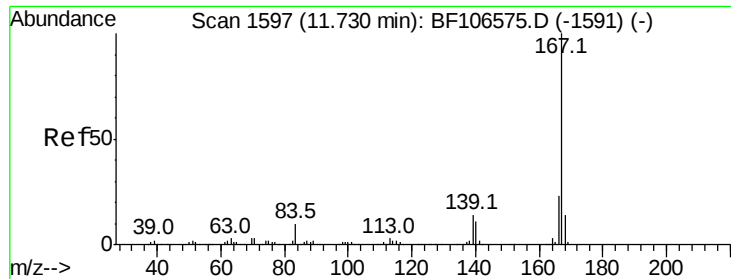


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 2.140 ng

RT: 11.72 min Scan# 1595

Delta R.T. -0.02 min

Lab File: BF107009.D

Acq: 30 Jun 2018 12:49

Instrument :

BNA_F

ClientSampleId :

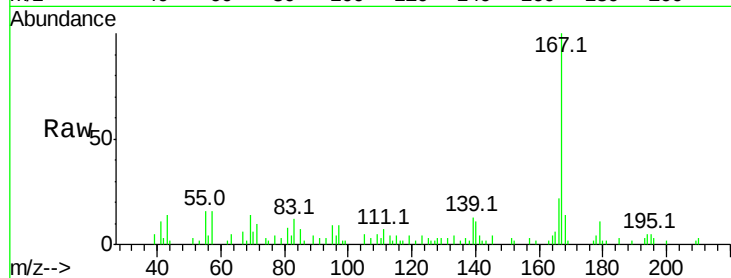
Tot Ion:167 Resp: 17434

Ion Ratio Lower Upper

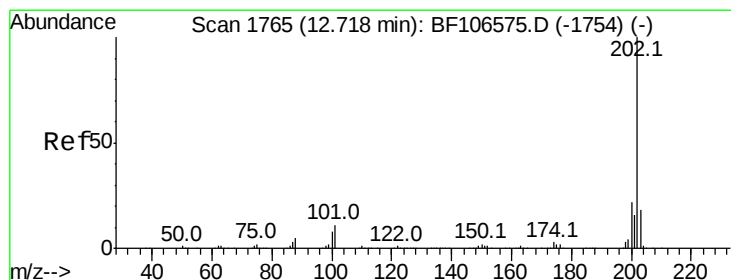
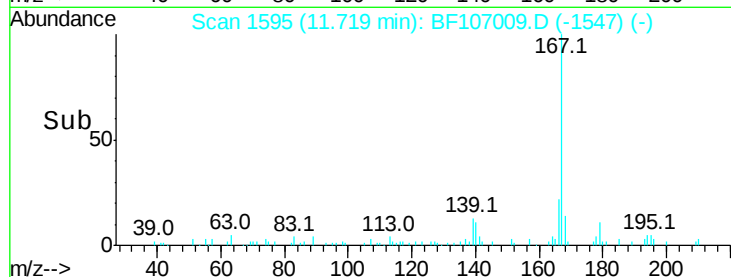
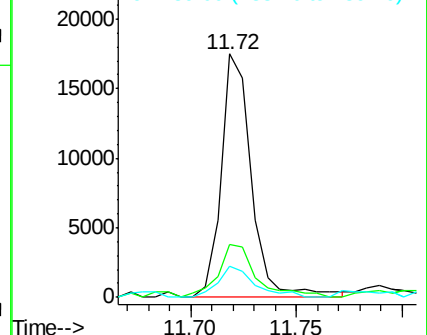
167 100

166 21.7 17.6 26.4

139 12.9 10.9 16.3



Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 18.552 ng

RT: 12.71 min Scan# 1763

Delta R.T. -0.01 min

Lab File: BF107009.D

Acq: 30 Jun 2018 12:49

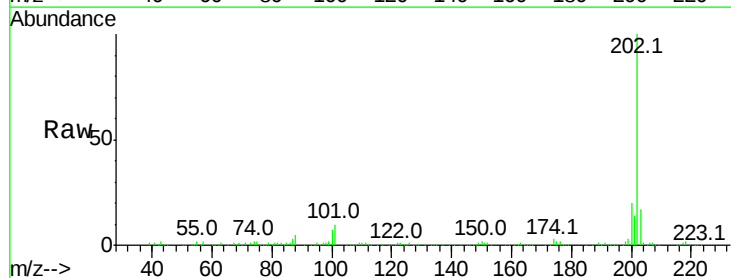
Tgt Ion:202 Resp: 174291

Ion Ratio Lower Upper

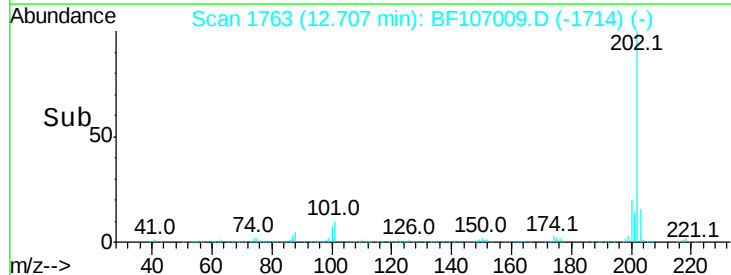
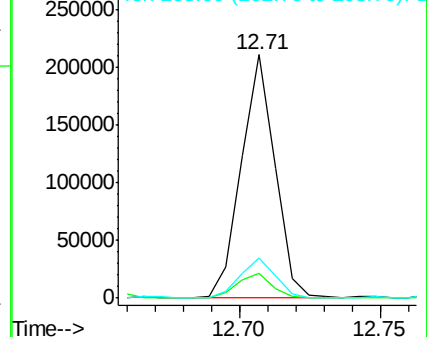
202 100

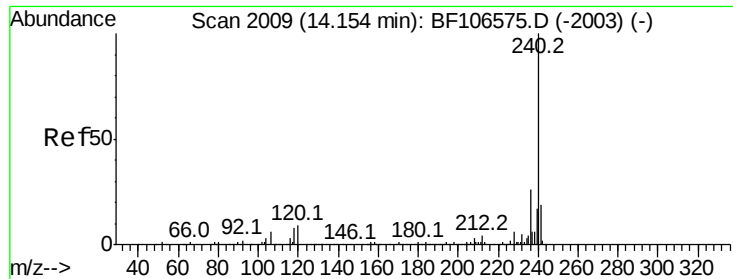
101 10.0 0.0 34.1

203 16.6 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: BF107009.D

Acq: 30 Jun 2018 12:49

Instrument :

BNA_F

ClientSampleId :

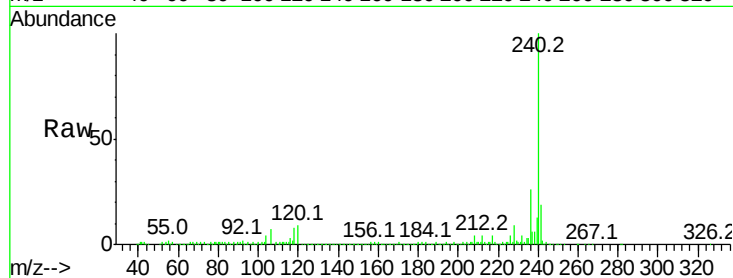
Tot Ion:240 Resp: 227958

Ion Ratio Lower Upper

240 100

120 9.0 9.5 14.3#

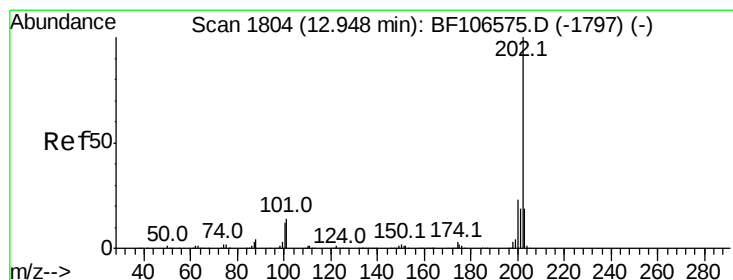
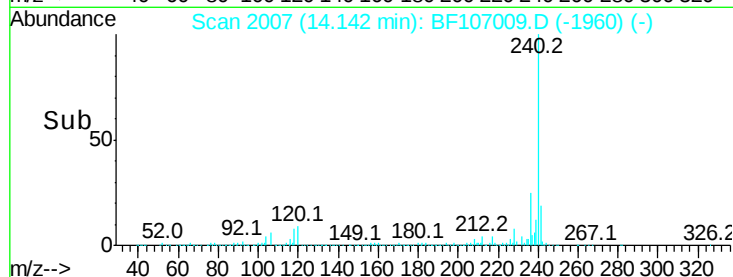
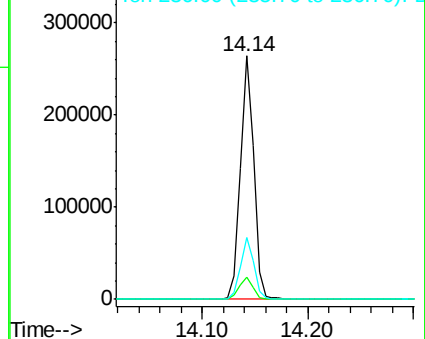
236 25.5 20.7 31.1



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 11.289 ng

RT: 12.94 min Scan# 1803

Delta R.T. -0.01 min

Lab File: BF107009.D

Acq: 30 Jun 2018 12:49

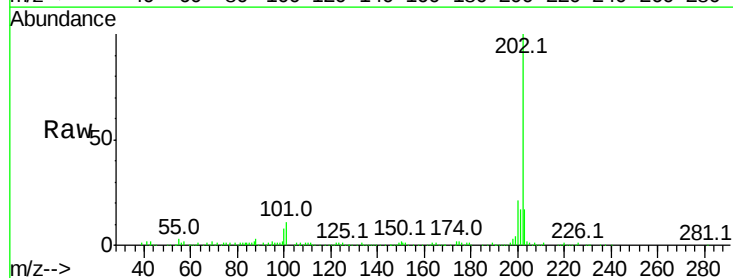
Tgt Ion:202 Resp: 169705

Ion Ratio Lower Upper

202 100

200 20.5 17.4 26.2

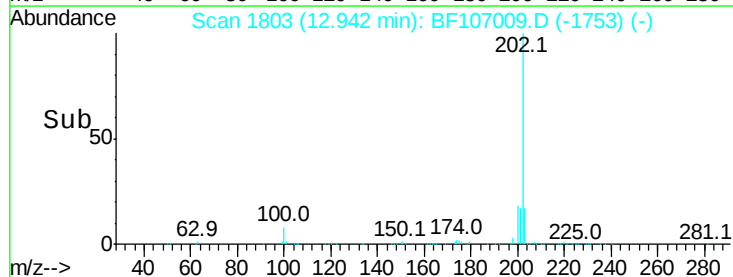
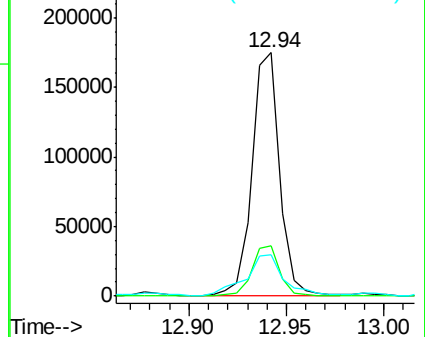
203 17.1 14.3 21.5

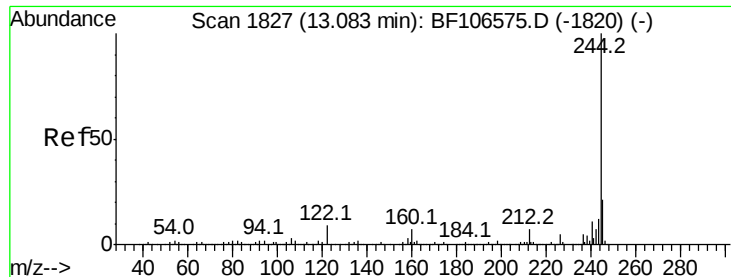


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 15.579 ng

RT: 13.07 min Scan# 1825

Delta R.T. -0.01 min

Lab File: BF107009.D

Acq: 30 Jun 2018 12:49

Instrument :

BNA_F

ClientSampleId :

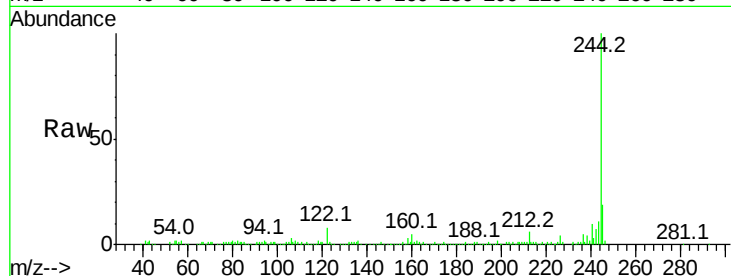
Tot Ion:244 Resp: 146612

Ion Ratio Lower Upper

244 100

212 6.2 5.4 8.0

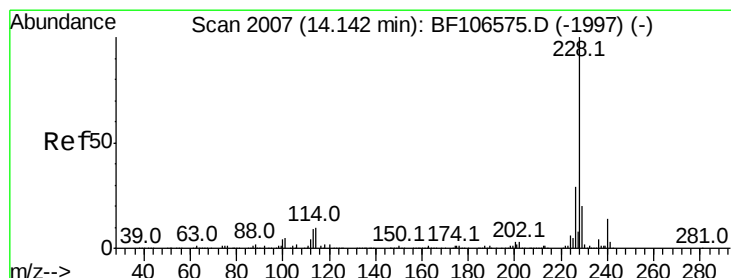
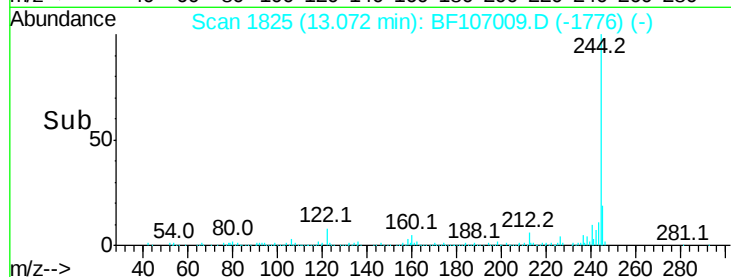
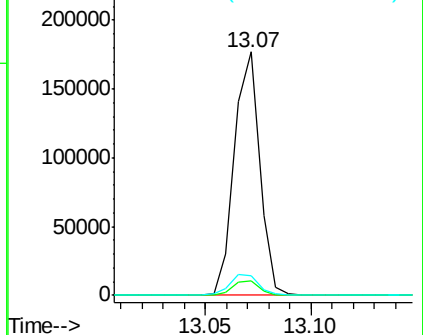
122 8.1 11.0 16.4#



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: 7.012 ng

RT: 14.13 min Scan# 2005

Delta R.T. -0.02 min

Lab File: BF107009.D

Acq: 30 Jun 2018 12:49

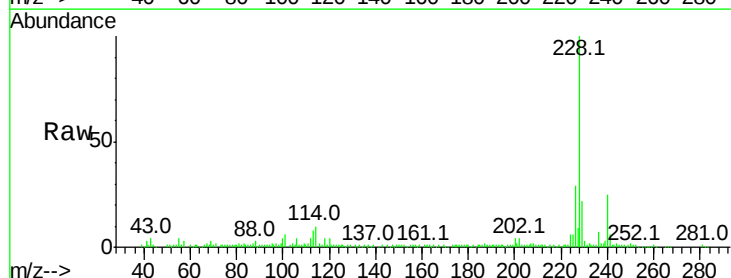
Tgt Ion:228 Resp: 97426

Ion Ratio Lower Upper

228 100

226 29.2 22.6 33.8

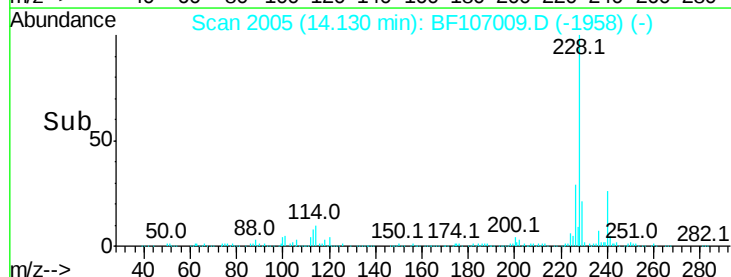
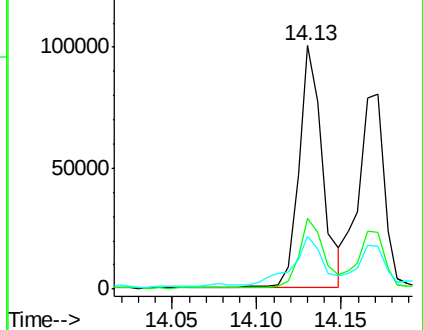
229 21.5 15.8 23.6

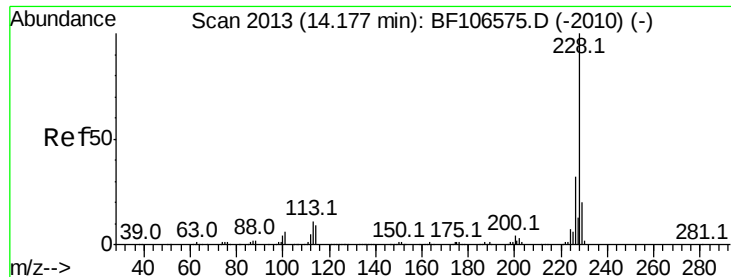


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 6.756 ng

RT: 14.17 min Scan# 2012

Delta R.T. -0.02 min

Lab File: BF107009.D

Acq: 30 Jun 2018 12:49

Instrument :

BNA_F

ClientSampled :

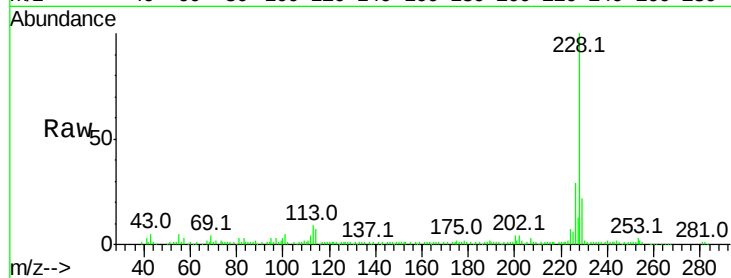
Tot Ion:228 Resp: 86353

Ion Ratio Lower Upper

228 100

226 29.3 25.0 37.6

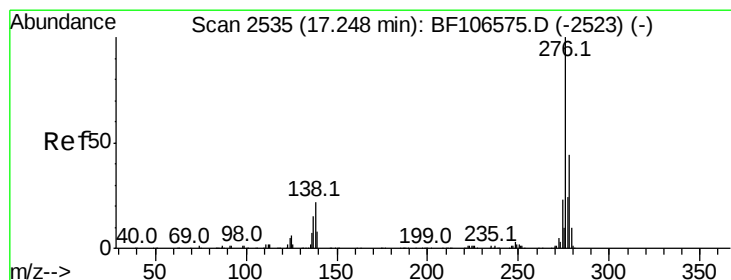
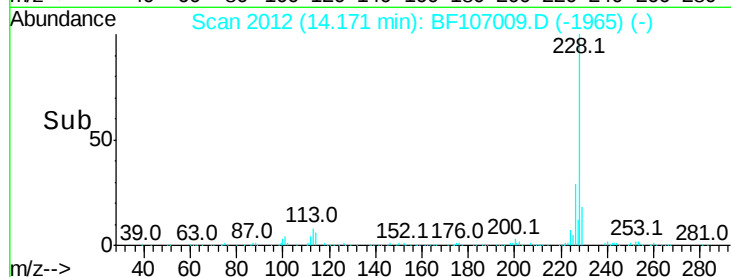
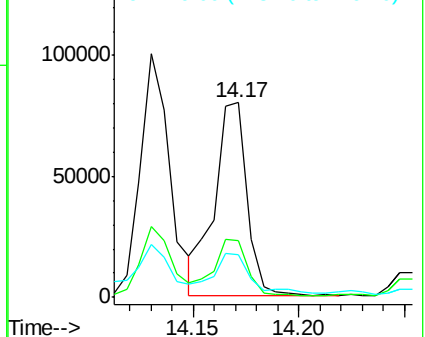
229 22.2 16.2 24.4



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: 2.684 ng

RT: 17.26 min Scan# 2537

Delta R.T. -0.05 min

Lab File: BF107009.D

Acq: 30 Jun 2018 12:49

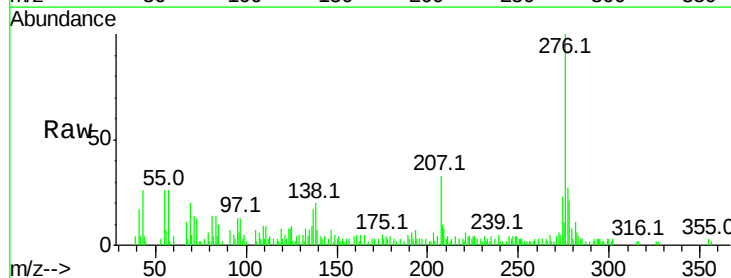
Tgt Ion:276 Resp: 29115

Ion Ratio Lower Upper

276 100

138 18.3 25.0 37.6#

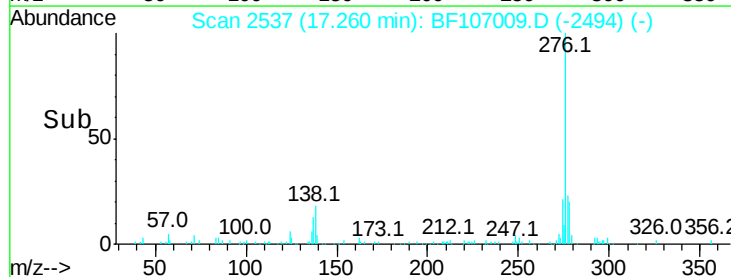
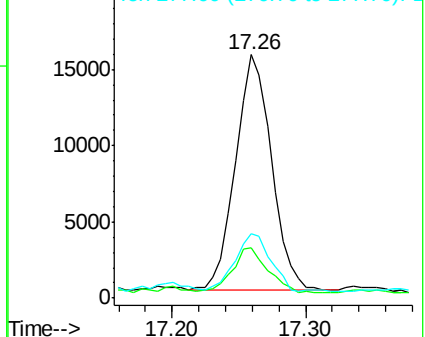
277 24.3 20.1 30.1

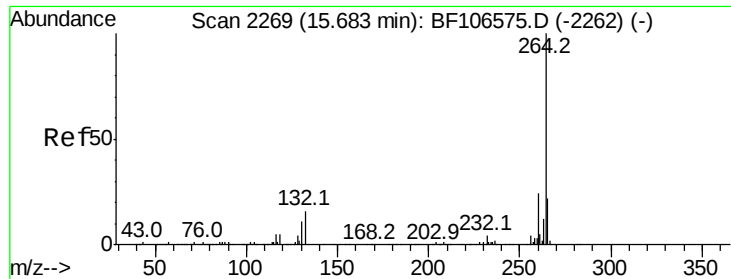


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

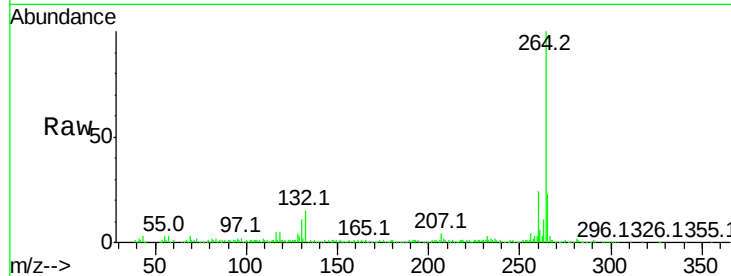




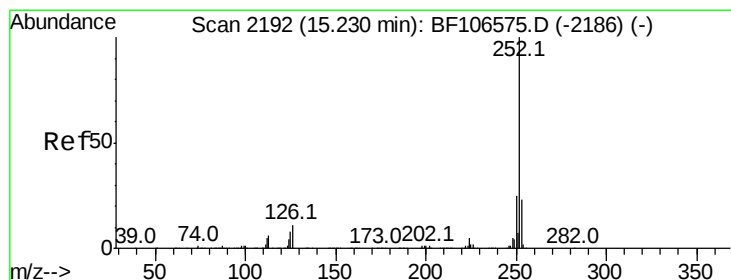
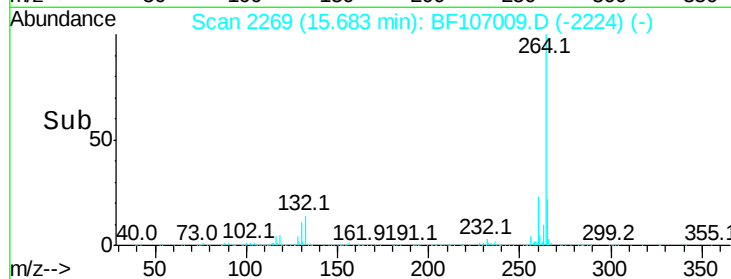
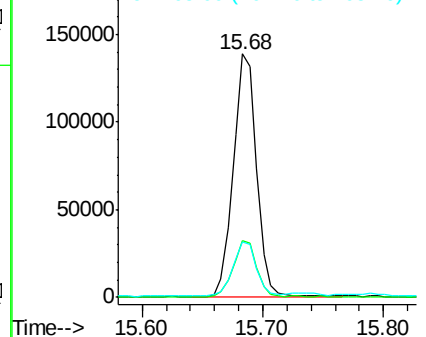
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.68 min Scan# 2269
Delta R.T. -0.04 min
Lab File: BF107009.D
Acq: 30 Jun 2018 12:49

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.2	28.8
265	22.6	17.5	26.3

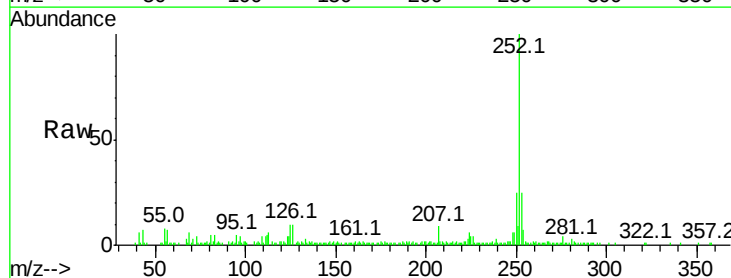


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

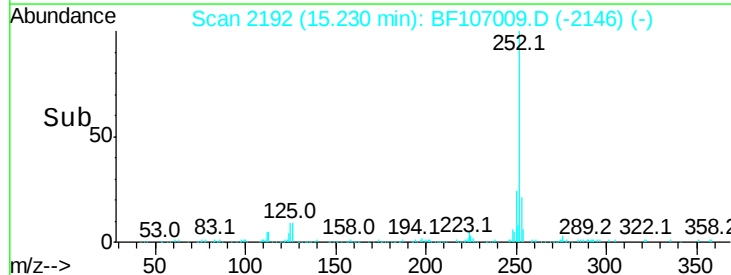
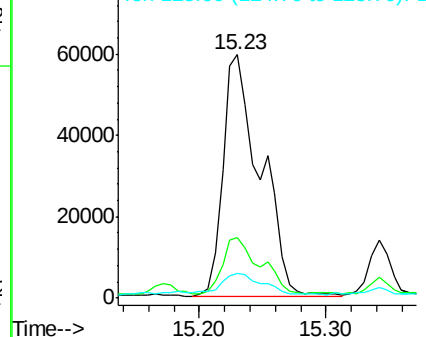


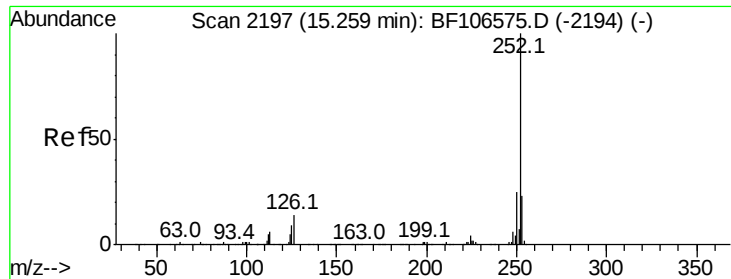
#87
Benzo(b)fluoranthene
Concen: 10.602 ng
RT: 15.23 min Scan# 2192
Delta R.T. -0.03 min
Lab File: BF107009.D
Acq: 30 Jun 2018 12:49

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.0	17.0	25.6
125	10.2	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

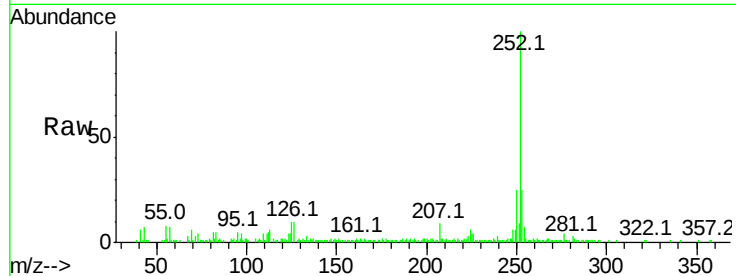




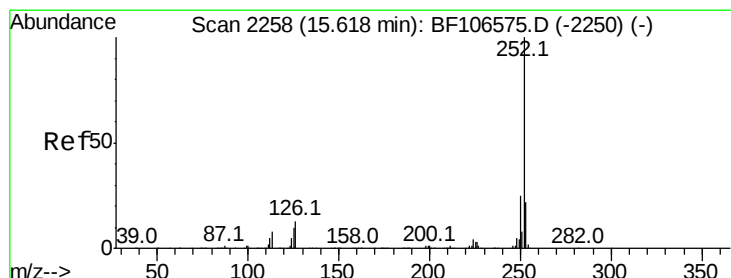
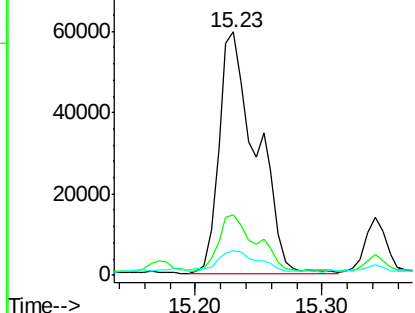
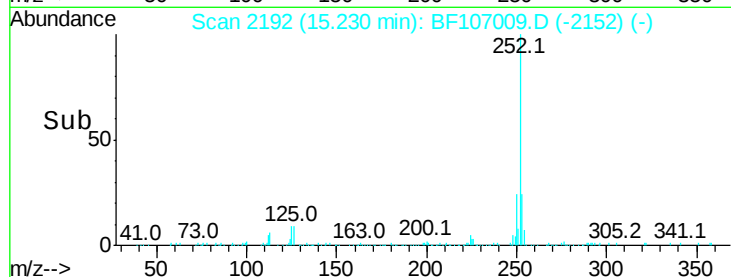
#88
Benzo(k)fluoranthene
Concen: 11.133 ng
RT: 15.23 min Scan# 2192
Delta R.T. -0.06 min
Lab File: BF107009.D
Acq: 30 Jun 2018 12:49

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.0	17.9	26.9
125	10.2	10.2	15.2

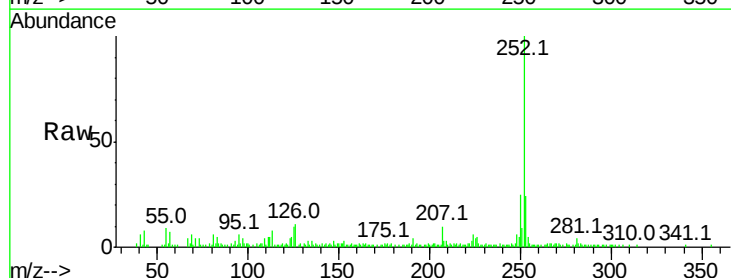


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

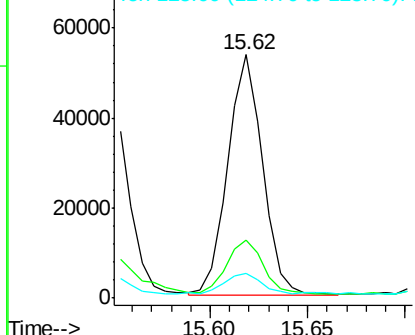
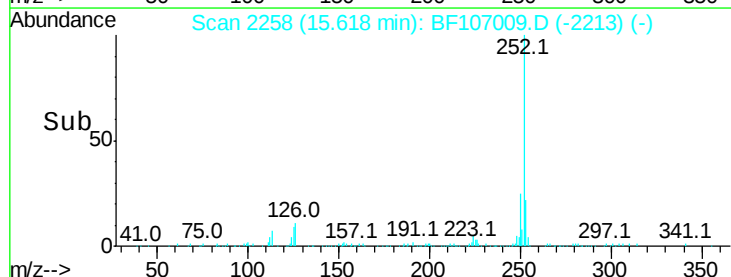


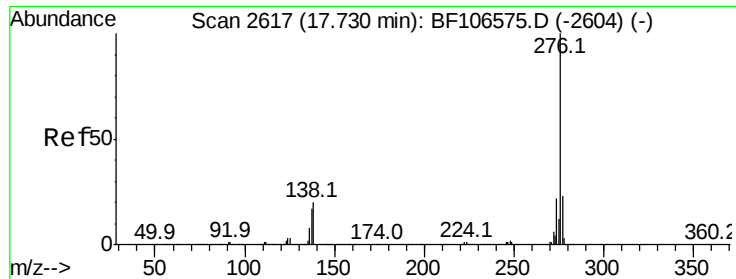
#89
Benzo(a)pyrene
Concen: 6.526 ng
RT: 15.62 min Scan# 2258
Delta R.T. -0.04 min
Lab File: BF107009.D
Acq: 30 Jun 2018 12:49

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.1	25.7
125	10.3	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: 3.561 ng
 RT: 17.74 min Scan# 2619
 Delta R.T. -0.05 min
 Lab File: BF107009.D
 Acq: 30 Jun 2018 12:49

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.2	17.9	26.9
138	19.8	21.8	32.8

