

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073118\
 Data File : BF107877.D
 Acq On : 1 Aug 2018 4:09
 Operator : JU/SJ
 Sample : J4231-09DL 100X
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 01 06:02:15 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 30 17:48:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	95785	20.00	ng	0.00
21) Naphthalene-d8	8.25	136	538392	20.00	ng	0.00
38) Acenaphthene-d10	10.00	164	205157	20.00	ng	0.00
63) Phenanthrene-d10	11.50	188	403988	20.00	ng	0.00
75) Chrysene-d12	14.15	240	400653	20.00	ng	0.00
86) Perylene-d12	15.69	264	295257	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	0.00	112	0	0.00	ng	
7) Phenol-d6	6.71	99	133	0.02	ng	0.11
23) Nitrobenzene-d5	7.63	82	952	0.10	ng	0.09
41) 2,4,6-Tribromophenol	10.81	330	1143	0.41	ng	0.01
44) 2-Fluorobiphenyl	9.32	172	9854	0.67	ng	0.00
78) Terphenyl-d14	13.08	244	17303	0.94	ng	0.00

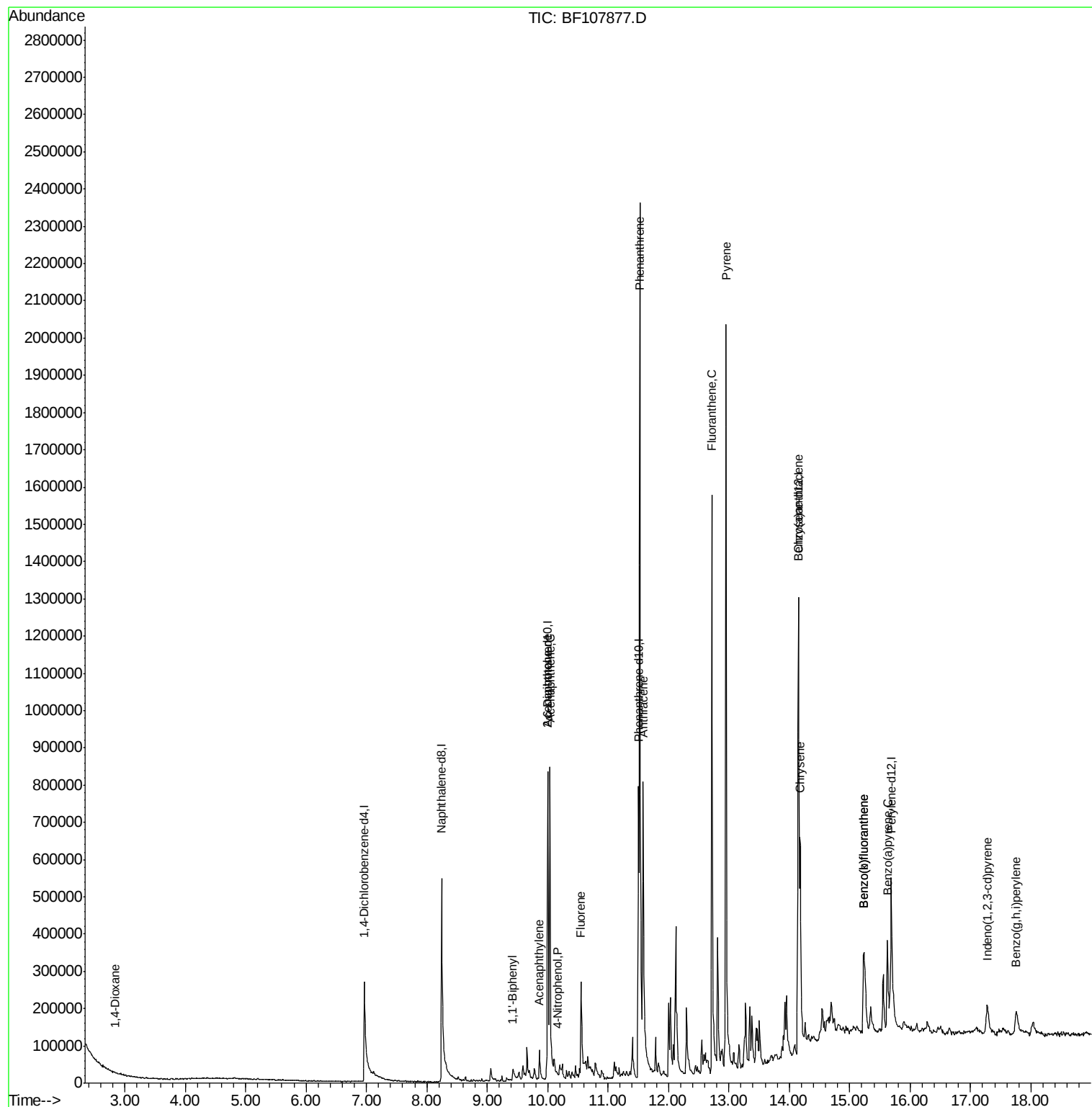
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	2.84	88	294	5.891	ng	# 1
45) 1,1'-Biphenyl	9.42	154	40200	2.153	ng	96
48) Acenaphthylene	9.87	152	49325	2.260	ng	98
50) 2,6-Dinitrotoluene	10.00	165	28700	8.571	ng	# 27
51) Acenaphthene	10.04	154	222883	17.578	ng	99
55) 4-Nitrophenol	10.16	139	245	9.422	ng	# 9
57) Fluorene	10.55	166	127789	8.390	ng	89
70) Phenanthrene	11.52	178	1075932	56.089	ng	100
71) Anthracene	11.58	178	592917	26.798	ng	98
74) Fluoranthene	12.72	202	814679	36.151	ng	97
77) Pyrene	12.95	202	1088077	37.715	ng	98
80) Benzo(a)anthracene	14.14	228	301966	13.305	ng	# 81
82) Chrysene	14.18	228	258199	10.548	ng	97
85) Indeno(1,2,3-cd)pyrene	17.28	276	75081	4.032	ng	# 86
87) Benzo(b)fluoranthene	15.24	252	232819	15.988	ng	# 98
88) Benzo(k)fluoranthene	15.24	252	232819	13.022	ng	97
89) Benzo(a)pyrene	15.62	252	191124	12.714	ng	97
91) Benzo(g,h,i)perylene	17.76	276	79089	6.233	ng	# 92

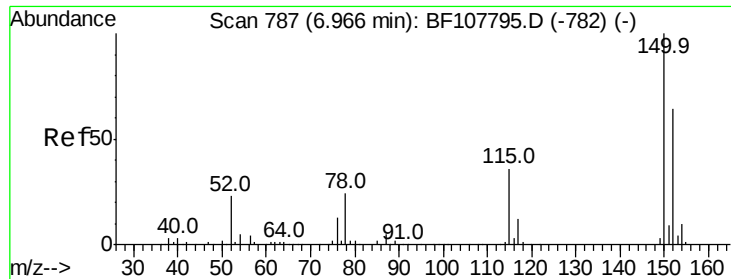
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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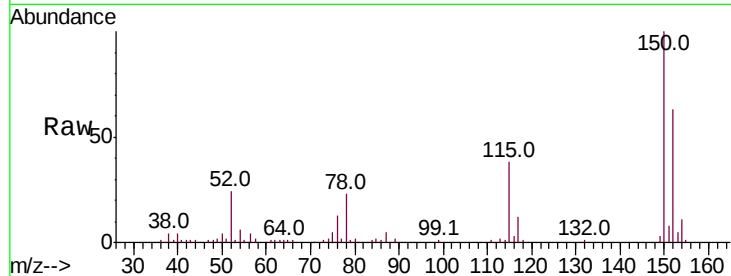


#1

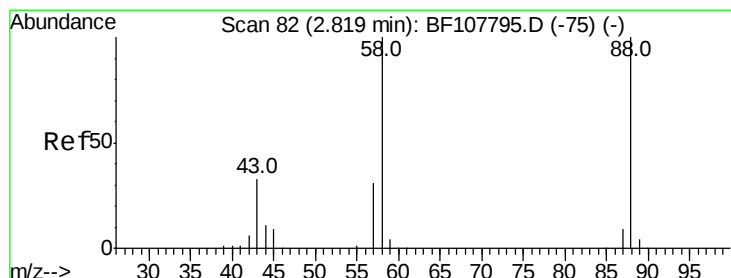
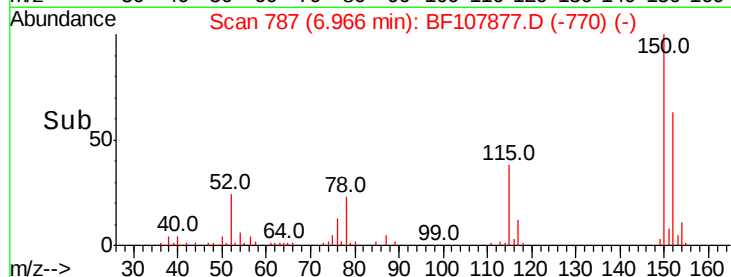
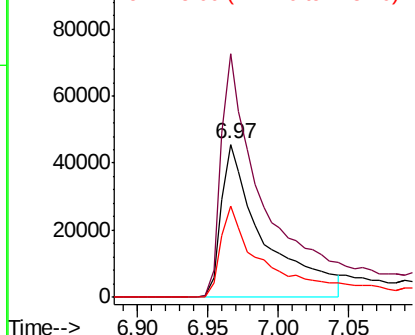
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.97 min Scan# 787
Delta R.T. -0.00 min
Lab File: BF107877.D
Acq: 1 Aug 2018 4:09

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 95785
Ion Ratio Lower Upper
152 100
150 159.2 124.6 186.8
115 59.9 50.1 75.1



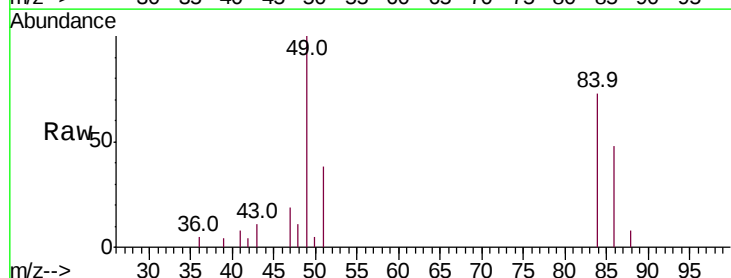
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



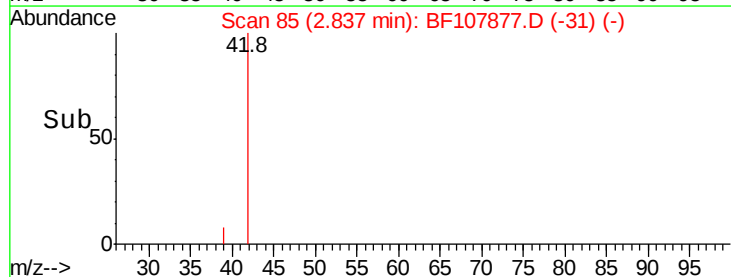
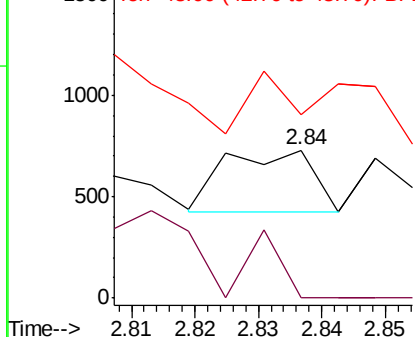
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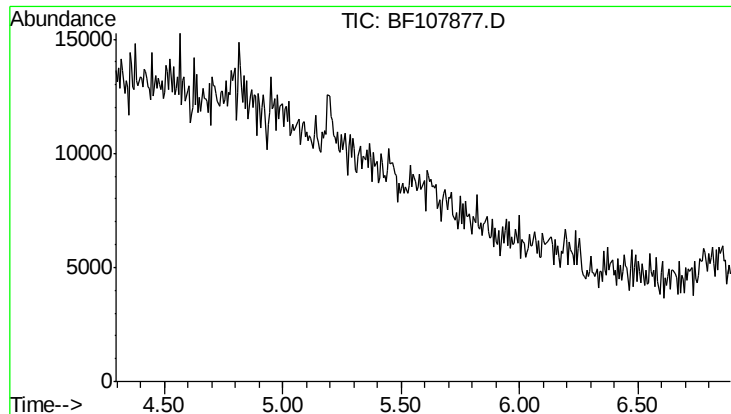
1,4-Dioxane
Concen: 5.891 ng
RT: 2.84 min Scan# 85
Delta R.T. 0.02 min
Lab File: BF107877.D
Acq: 1 Aug 2018 4:09

Tgt Ion: 88 Resp: 294
Ion Ratio Lower Upper
88 100
58 0.0 62.6 93.8#
43 109.2 24.6 37.0#



Abundance Ion 88.00 (87.70 to 88.70): BF1
Ion 58.00 (57.70 to 58.70): BF1
Ion 43.00 (42.70 to 43.70): BF1





#5

2-Fluorophenol

Concen: 0.000 ng

Expected RT: 5.59 min

Lab File: BF107877.D

Acq: 1 Aug 2018 4:09

Instrument :

BNA_F

ClientSampleId :

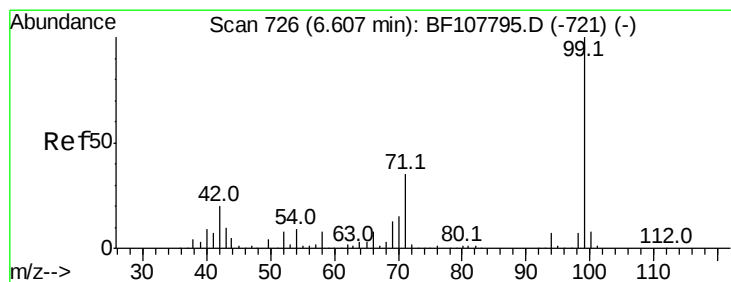
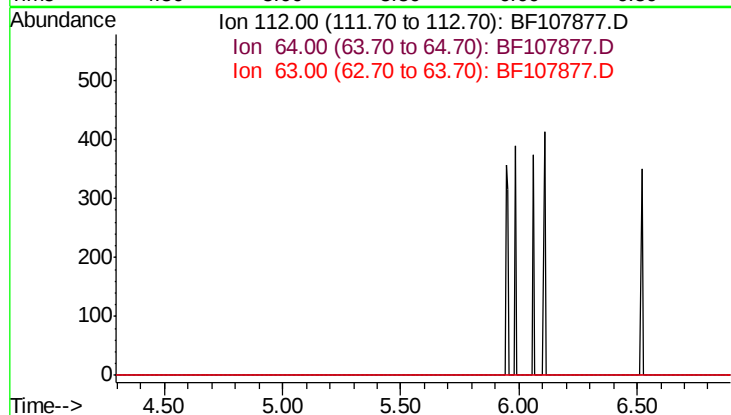
Tot Ion: 112

Sig Exp Ratio

112 100

64 59.9

63 29.6



#7

Phenol-d6

Concen: 0.018 ng

RT: 6.71 min Scan# 744

Delta R.T. 0.11 min

Lab File: BF107877.D

Acq: 1 Aug 2018 4:09

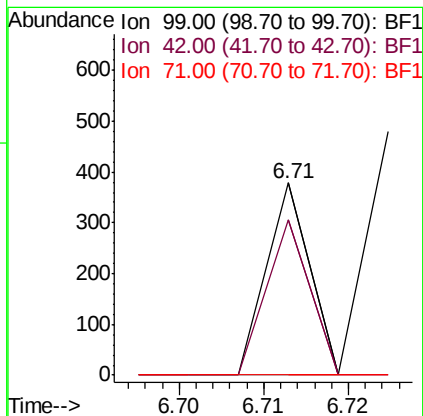
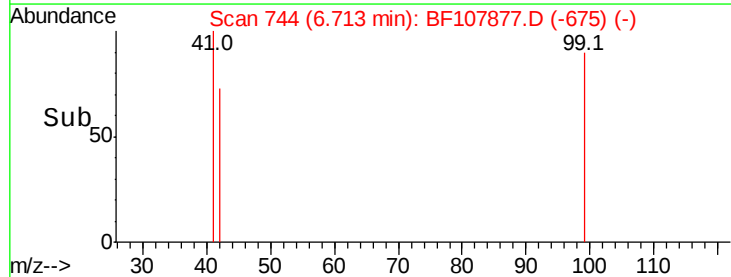
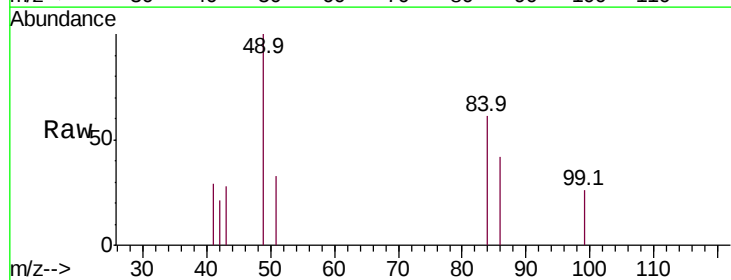
Tgt Ion: 99 Resp: 133

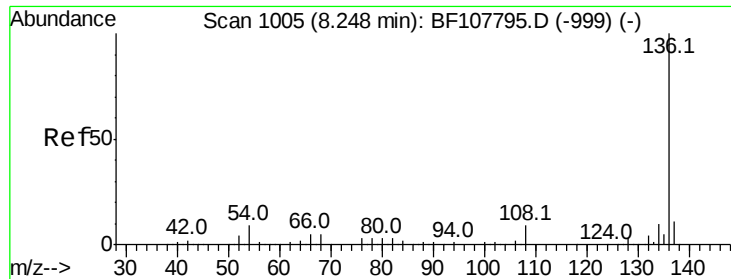
Ion Ratio Lower Upper

99 100

42 81.0 14.5 21.7#

71 0.0 25.4 38.0#

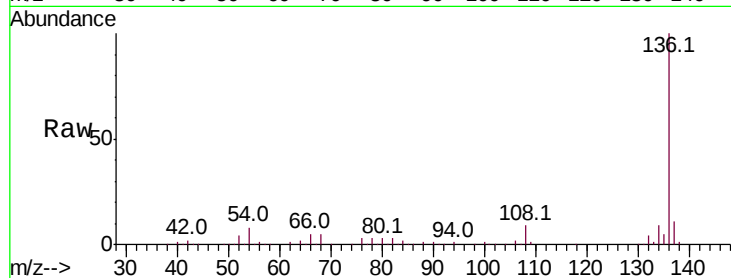




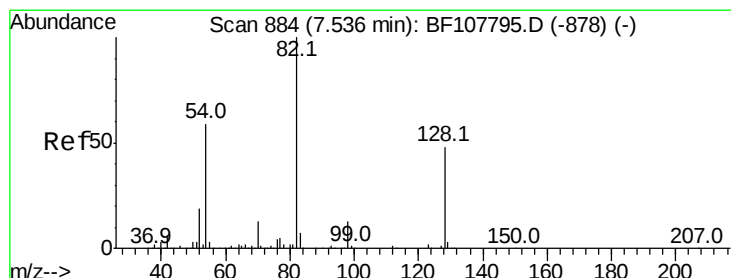
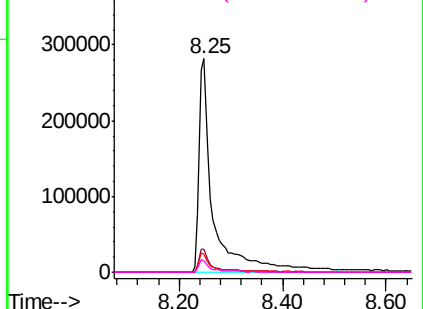
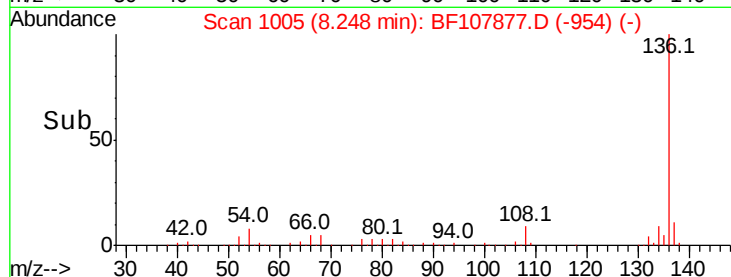
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.25 min Scan# 1005
Delta R.T. -0.00 min
Lab File: BF107877.D
Acq: 1 Aug 2018 4:09

Instrument :
BNA_F
ClientSampleId :

Tot Ion:	136	Resp:	538392
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.9	13.3
54	8.4	6.6	9.8
68	5.3	5.0	7.4

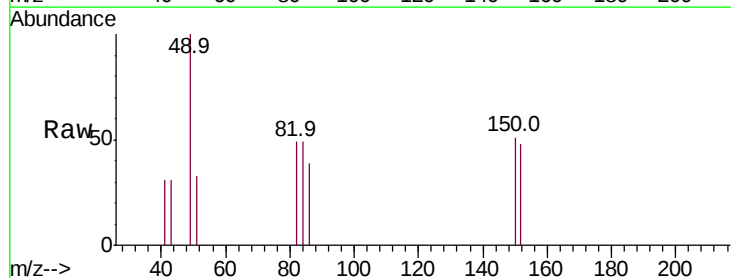


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

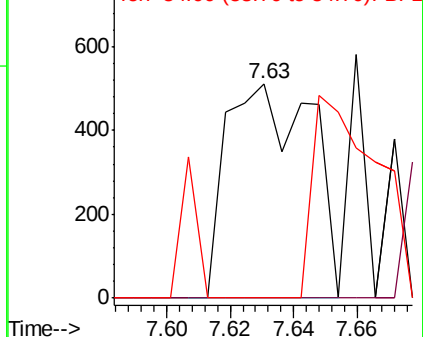
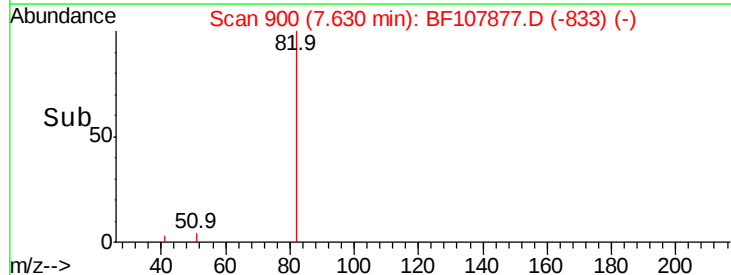


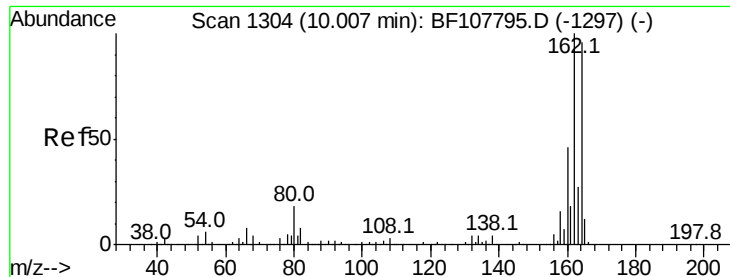
#23
Nitrobenzene-d5
Concen: 0.102 ng
RT: 7.63 min Scan# 900
Delta R.T. 0.09 min
Lab File: BF107877.D
Acq: 1 Aug 2018 4:09

Tgt Ion:	82	Resp:	952
Ion	Ratio	Lower	Upper
82	100		
128	0.0	36.1	54.1#
54	0.0	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

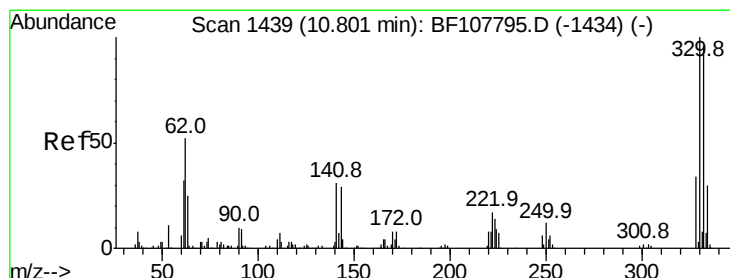
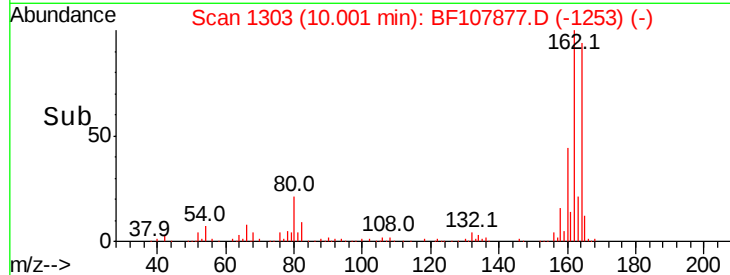
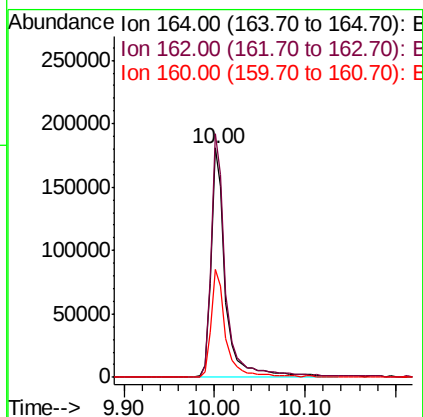
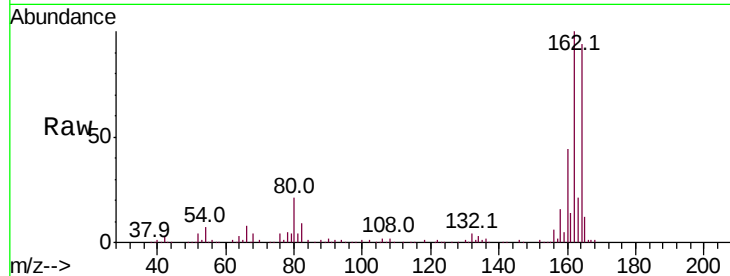




#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 10.00 min Scan# 1303
 Delta R.T. -0.01 min
 Lab File: BF107877.D
 Acq: 1 Aug 2018 4:09

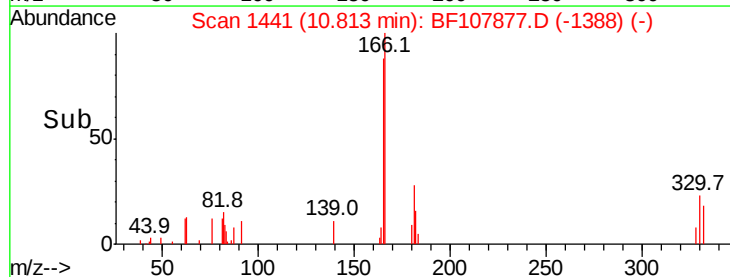
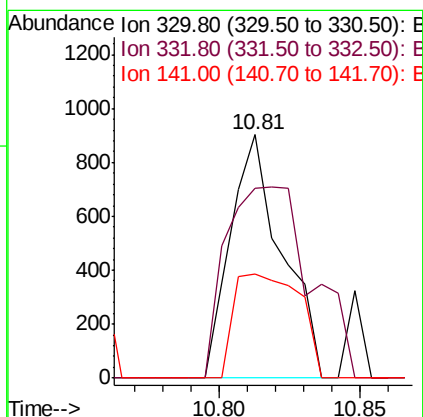
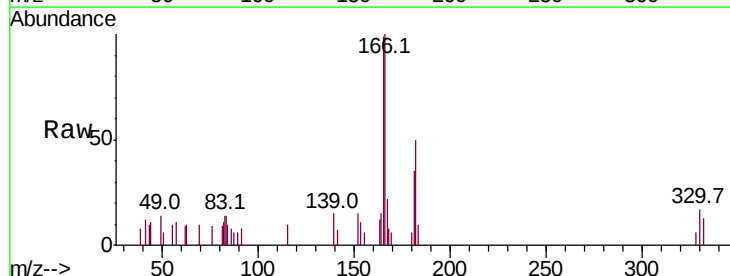
Instrument :
 BNA_F
 ClientSampleId :

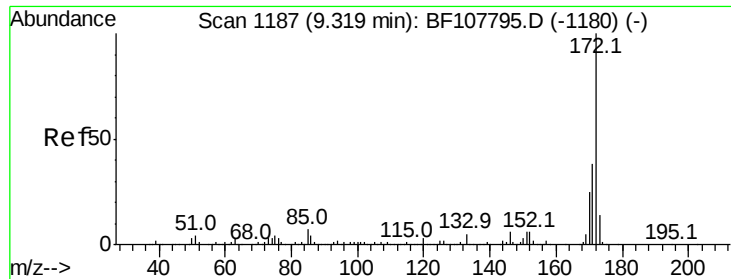
Tot Ion:164 Resp: 205157
 Ion Ratio Lower Upper
 164 100
 162 106.2 86.1 129.1
 160 47.1 38.3 57.5



#41
 2,4,6-Tribromophenol
 Concen: 0.410 ng
 RT: 10.81 min Scan# 1441
 Delta R.T. 0.01 min
 Lab File: BF107877.D
 Acq: 1 Aug 2018 4:09

Tgt Ion:330 Resp: 1143
 Ion Ratio Lower Upper
 330 100
 332 129.8 77.0 115.6#
 141 54.6 29.9 44.9#

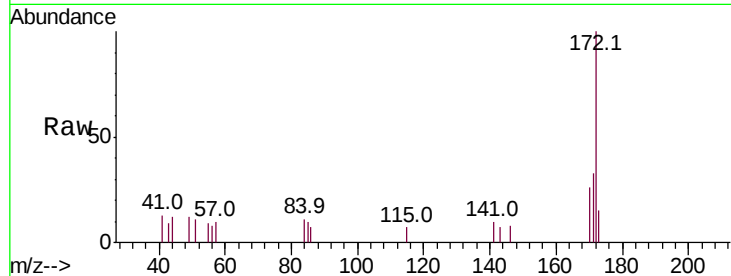




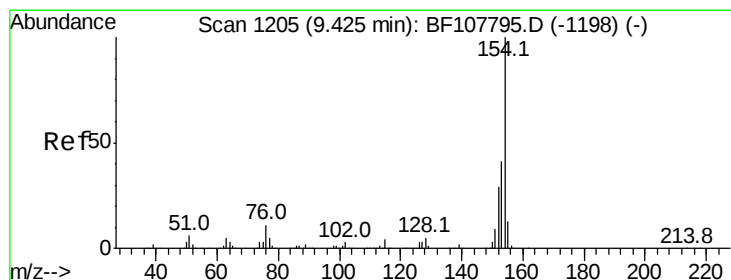
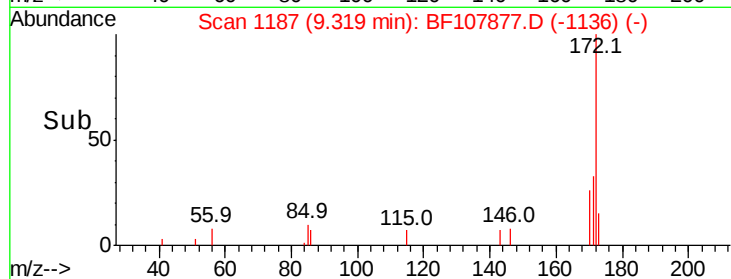
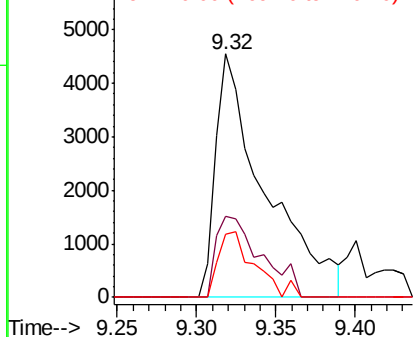
#44
2-Fluorobiphenyl
Concen: 0.669 ng
RT: 9.32 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BF107877.D
Acq: 1 Aug 2018 4:09

Instrument :
BNA_F
ClientSampleId :

Tot Ion:172 Resp: 9854
Ion Ratio Lower Upper
172 100
171 33.0 29.7 44.5
170 25.8 19.6 29.4

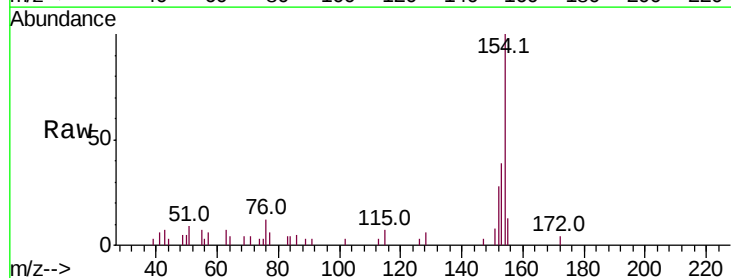


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

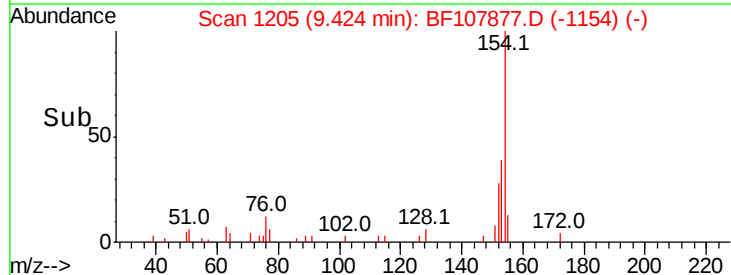
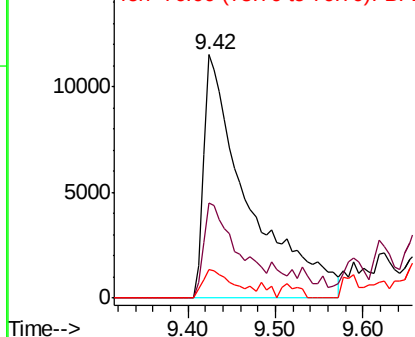


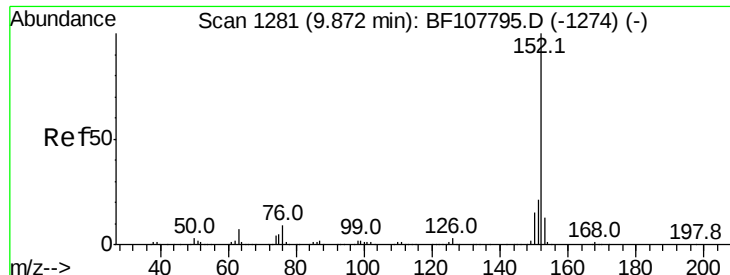
#45
1,1'-Biphenyl
Concen: 2.153 ng
RT: 9.42 min Scan# 1205
Delta R.T. -0.00 min
Lab File: BF107877.D
Acq: 1 Aug 2018 4:09

Tgt Ion:154 Resp: 40200
Ion Ratio Lower Upper
154 100
153 38.9 21.3 61.3
76 11.8 0.0 34.0



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF1





#48

Acenaphthylene

Concen: 2.260 ng

RT: 9.87 min Scan# 1280

Delta R.T. -0.01 min

Lab File: BF107877.D

Acq: 1 Aug 2018 4:09

Instrument :

BNA_F

ClientSampleId :

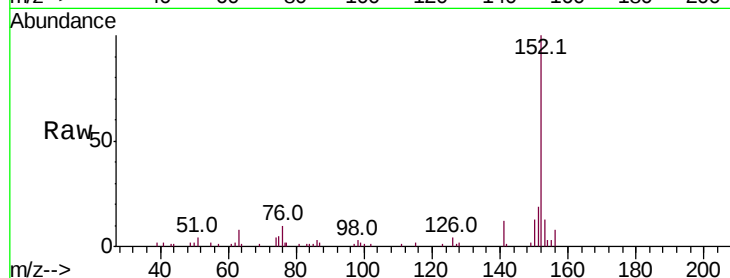
Tot Ion:152 Resp: 49325

Ion Ratio Lower Upper

152 100

151 19.0 16.3 24.5

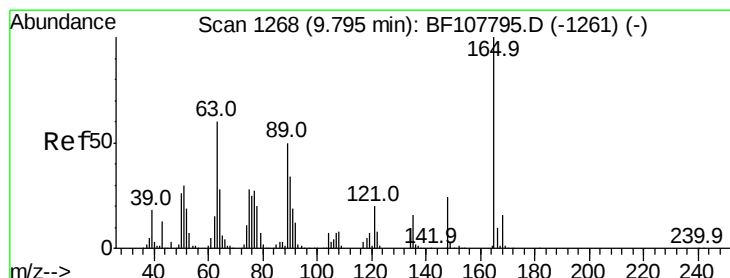
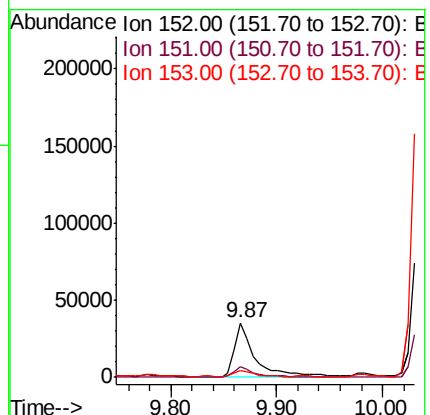
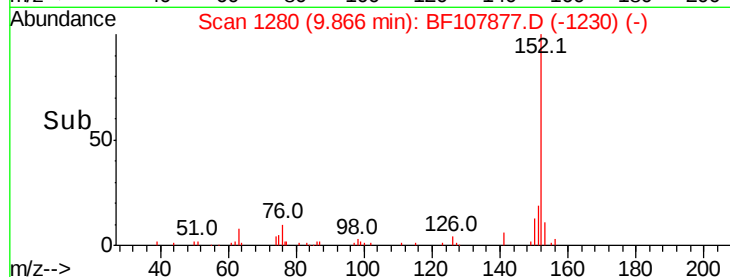
153 12.8 10.7 16.1



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: 8.571 ng

RT: 10.00 min Scan# 1303

Delta R.T. 0.21 min

Lab File: BF107877.D

Acq: 1 Aug 2018 4:09

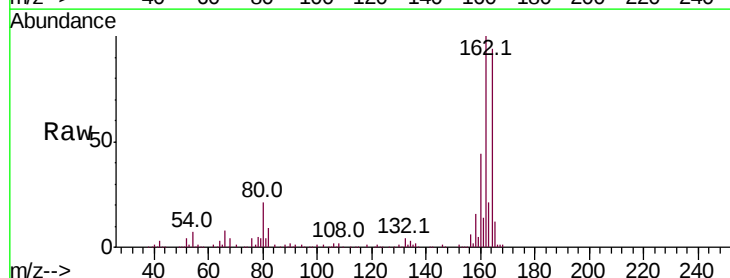
Tgt Ion:165 Resp: 28700

Ion Ratio Lower Upper

165 100

63 1.9 44.7 67.1#

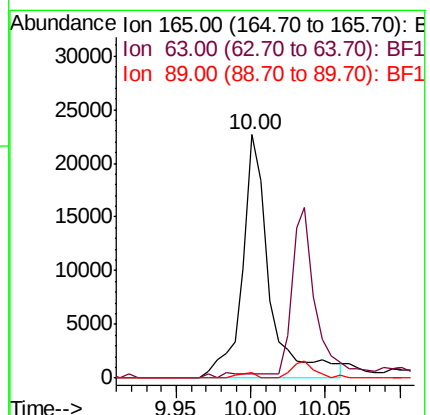
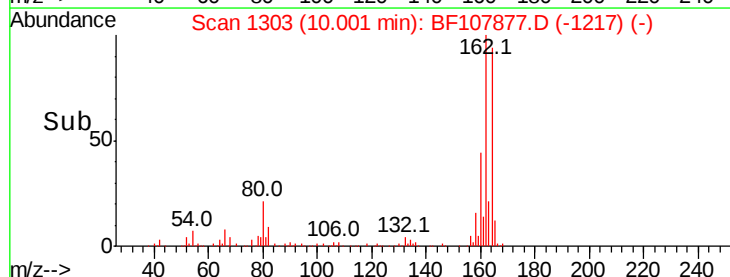
89 2.3 44.0 66.0#

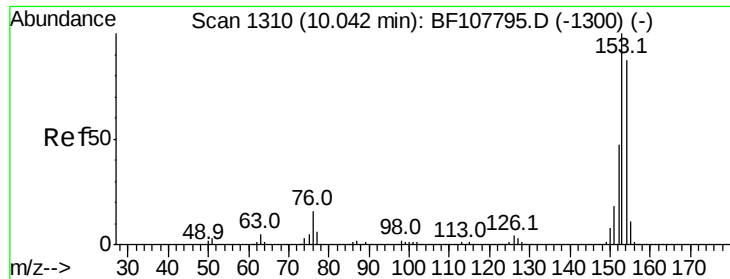


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1





#51

Acenaphthene

Concen: 17.578 ng

RT: 10.04 min Scan# 1309

Delta R.T. -0.01 min

Lab File: BF107877.D

Acq: 1 Aug 2018 4:09

Instrument :

BNA_F

ClientSampleId :

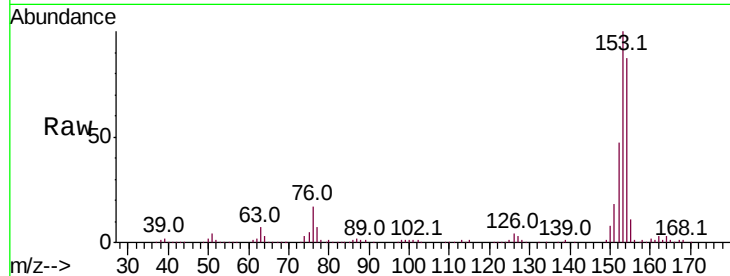
Tot Ion:154 Resp: 222883

Ion Ratio Lower Upper

154 100

153 115.2 91.2 136.8

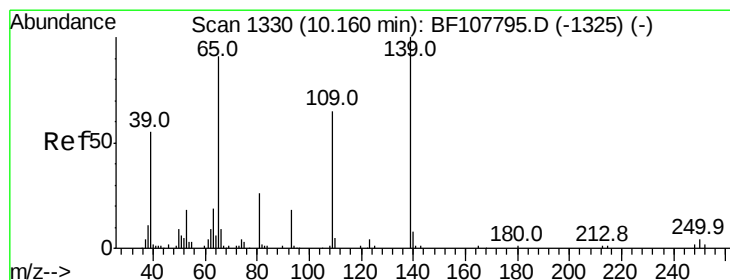
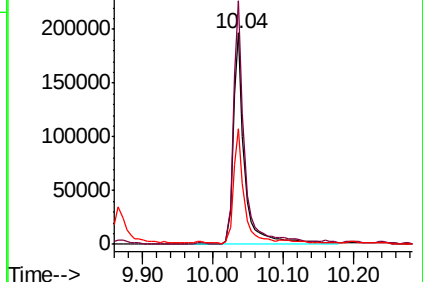
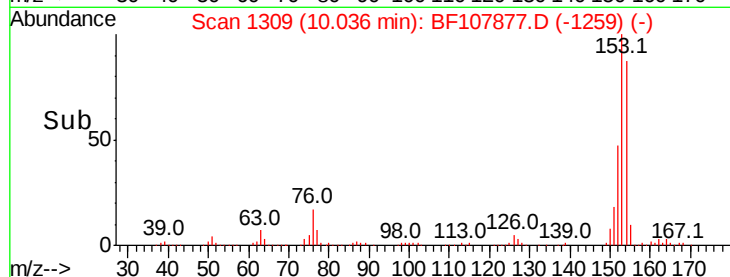
152 54.5 43.8 65.8



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#55

4-Nitrophenol

Concen: 9.422 ng

RT: 10.16 min Scan# 1330

Delta R.T. 0.00 min

Lab File: BF107877.D

Acq: 1 Aug 2018 4:09

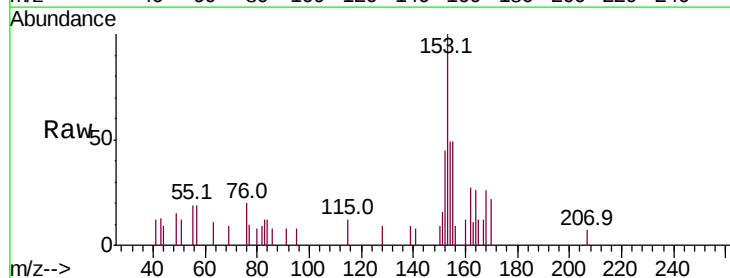
Tgt Ion:139 Resp: 245

Ion Ratio Lower Upper

139 100

109 0.0 48.4 88.4#

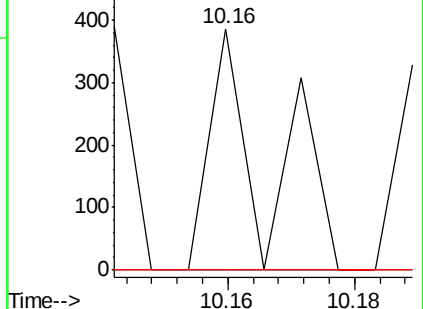
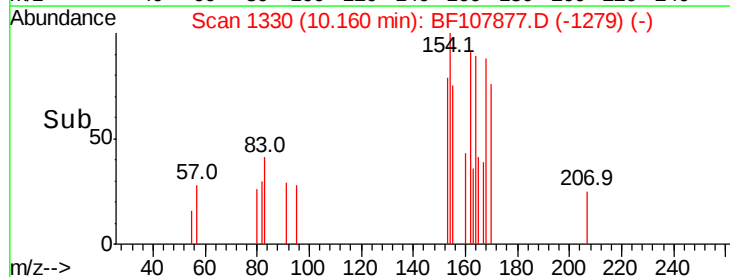
65 0.0 72.6 112.6#

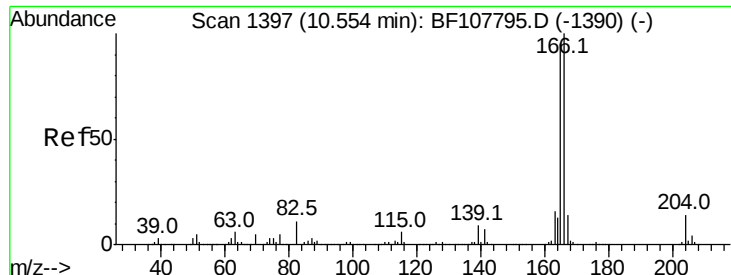


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1





#57

Fluorene

Concen: 8.390 ng

RT: 10.55 min Scan# 1397

Delta R.T. -0.00 min

Lab File: BF107877.D

Acq: 1 Aug 2018 4:09

Instrument :

BNA_F

ClientSampled :

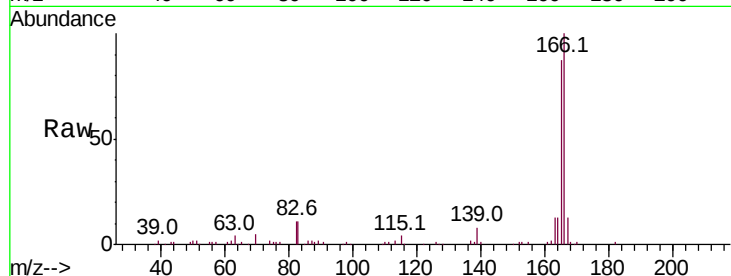
Tot Ion:166 Resp: 127789

Ion Ratio Lower Upper

166 100

165 87.0 79.8 119.8

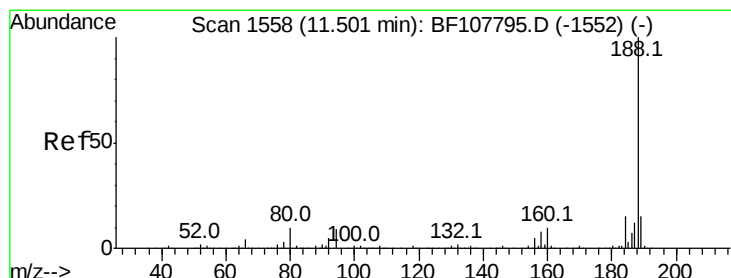
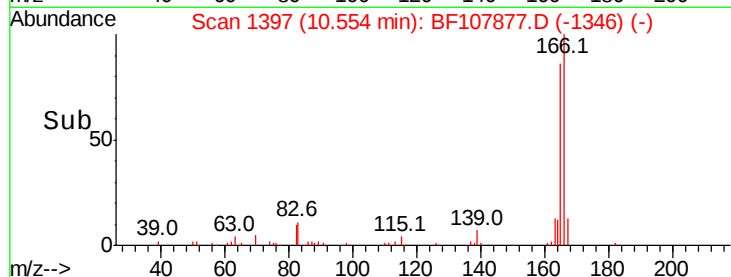
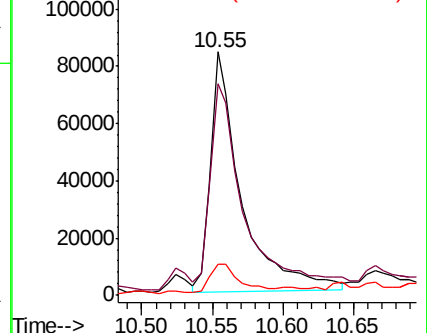
167 12.8 10.6 16.0



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: 11.50 min Scan# 1558

Delta R.T. -0.00 min

Lab File: BF107877.D

Acq: 1 Aug 2018 4:09

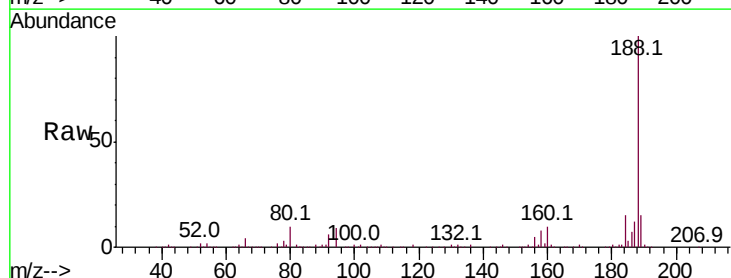
Tgt Ion:188 Resp: 403988

Ion Ratio Lower Upper

188 100

94 9.0 8.5 12.7

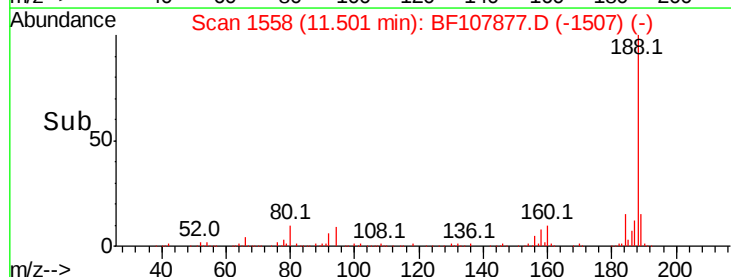
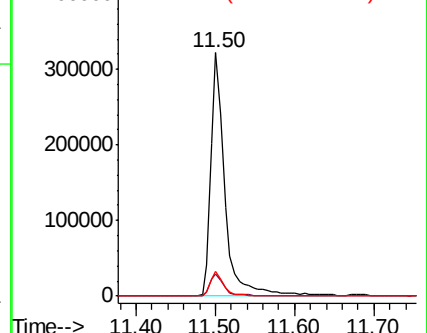
80 10.1 9.2 13.8

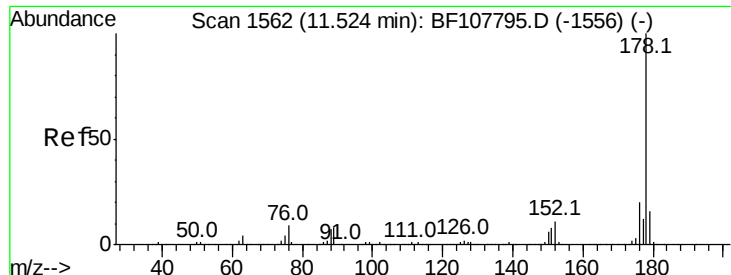


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

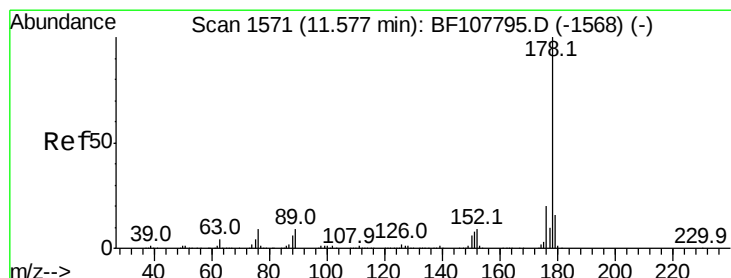
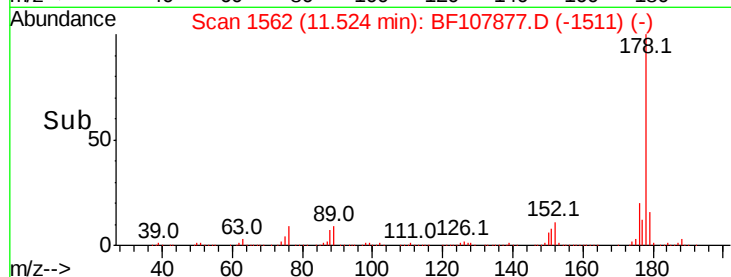
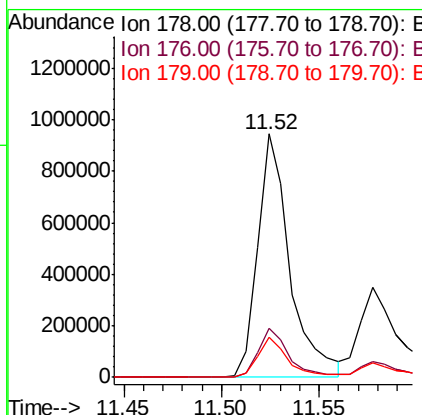
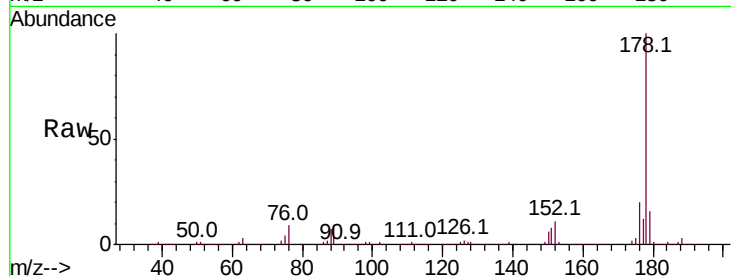




#70
Phenanthrene
Concen: 56.089 ng
RT: 11.52 min Scan# 1562
Delta R.T. -0.00 min
Lab File: BF107877.D
Acq: 1 Aug 2018 4:09

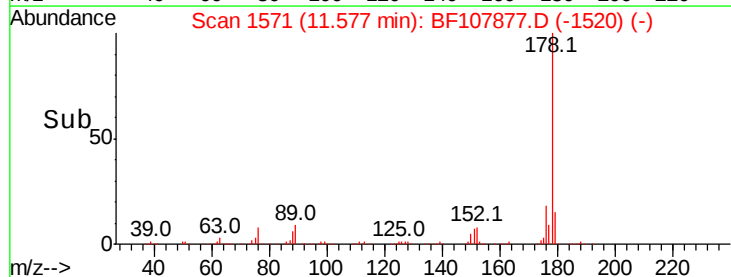
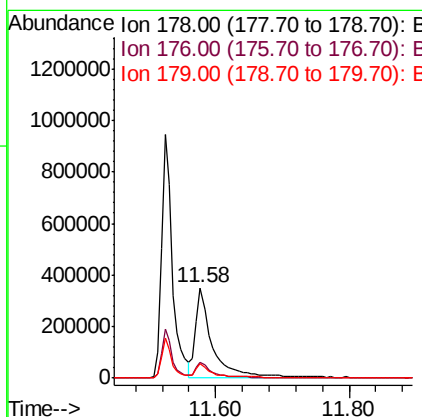
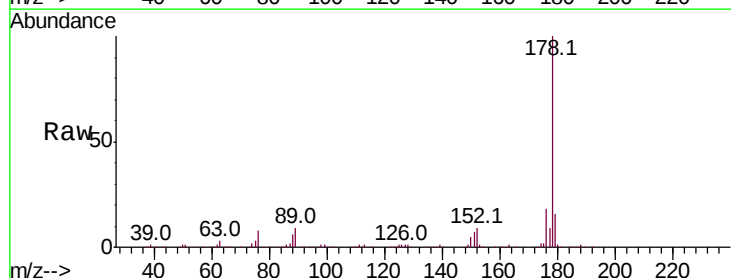
Instrument :
BNA_F
ClientSampleId :

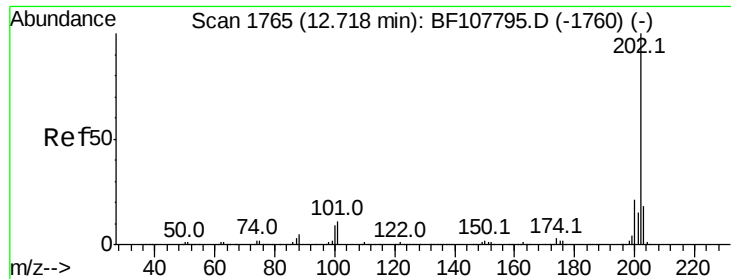
Tot Ion:178 Resp: 1075932
Ion Ratio Lower Upper
178 100
176 20.2 15.8 23.8
179 16.3 13.0 19.6



#71
Anthracene
Concen: 26.798 ng
RT: 11.58 min Scan# 1571
Delta R.T. -0.00 min
Lab File: BF107877.D
Acq: 1 Aug 2018 4:09

Tgt Ion:178 Resp: 592917
Ion Ratio Lower Upper
178 100
176 17.9 15.4 23.2
179 15.7 12.6 19.0





#74

Fluoranthene

Concen: 36.151 ng

RT: 12.72 min Scan# 1765

Delta R.T. -0.00 min

Lab File: BF107877.D

Acq: 1 Aug 2018 4:09

Instrument :

BNA_F

ClientSampleId :

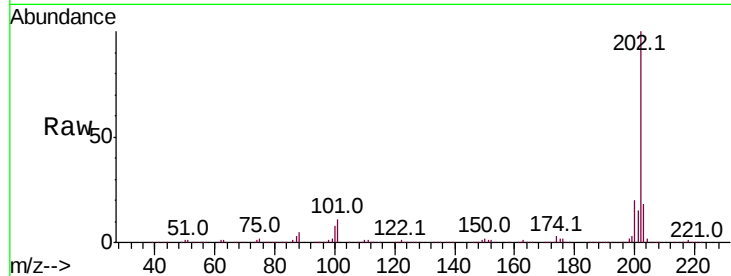
Tot Ion:202 Resp: 814679

Ion Ratio Lower Upper

202 100

101 11.4 0.0 34.1

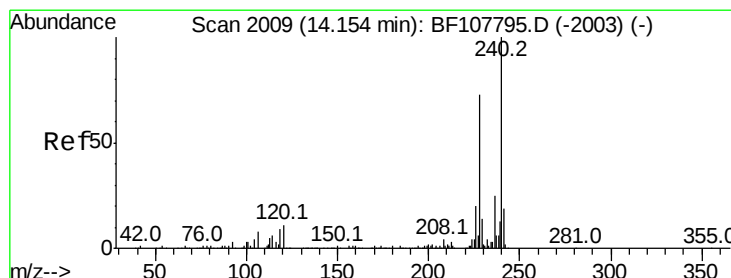
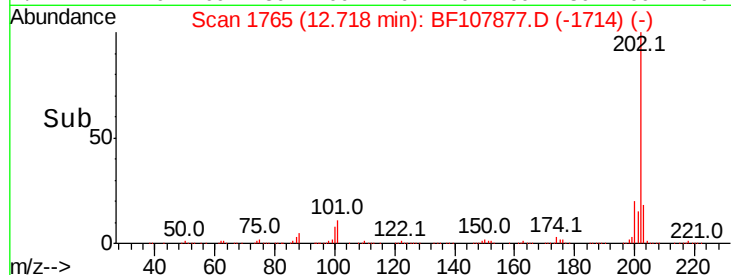
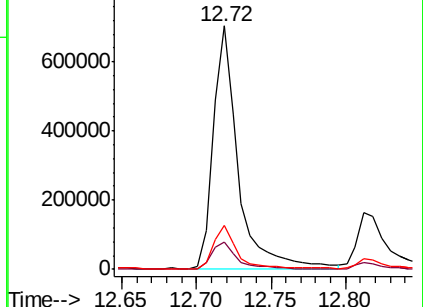
203 18.1 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.15 min Scan# 2009

Delta R.T. -0.00 min

Lab File: BF107877.D

Acq: 1 Aug 2018 4:09

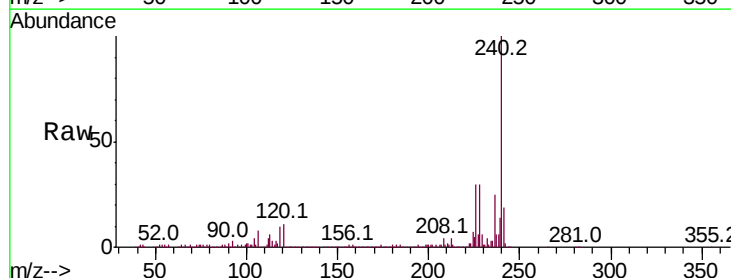
Tgt Ion:240 Resp: 400653

Ion Ratio Lower Upper

240 100

120 10.9 9.5 14.3

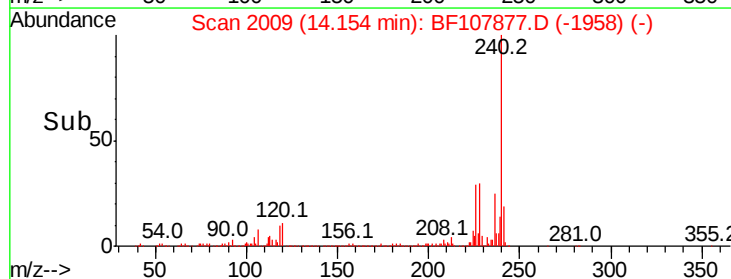
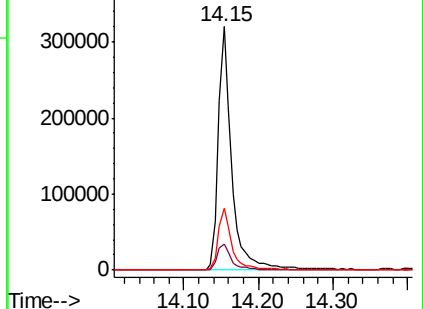
236 25.2 20.7 31.1

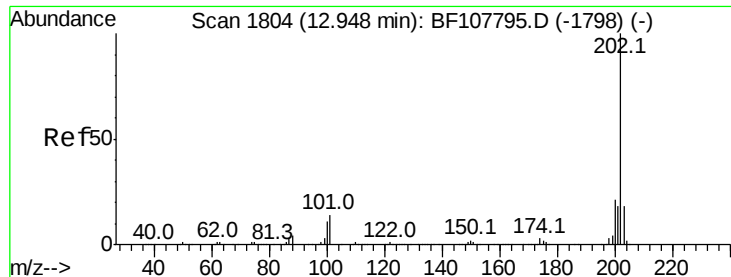


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

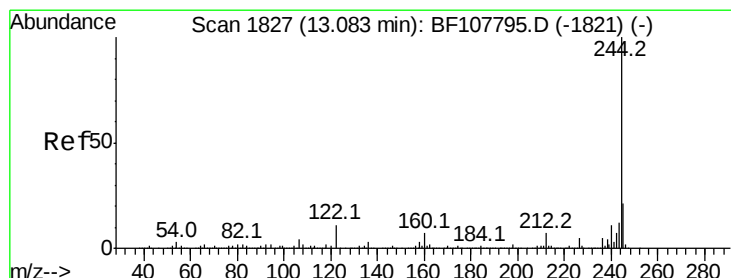
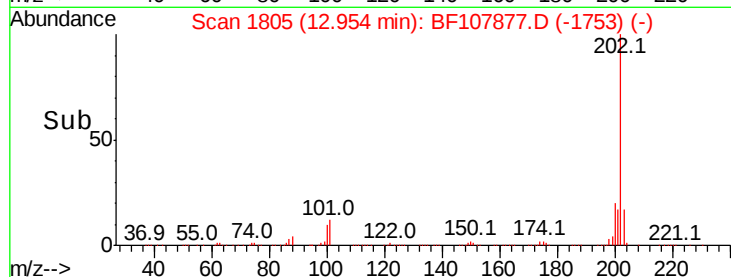
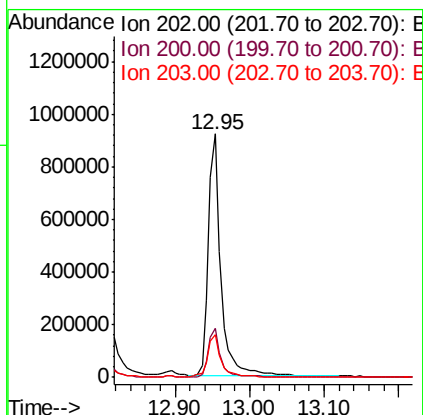
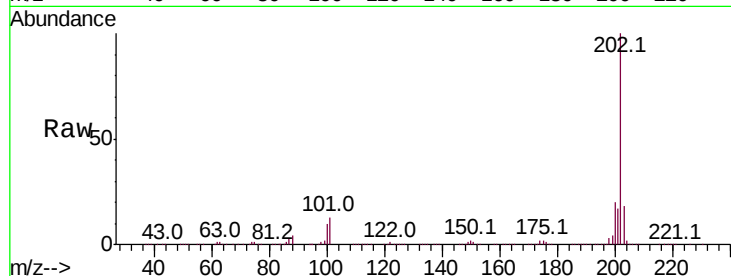




#77
Pvrene
Concen: 37.715 ng
RT: 12.95 min Scan# 1805
Delta R.T. 0.01 min
Lab File: BF107877.D
Acq: 1 Aug 2018 4:09

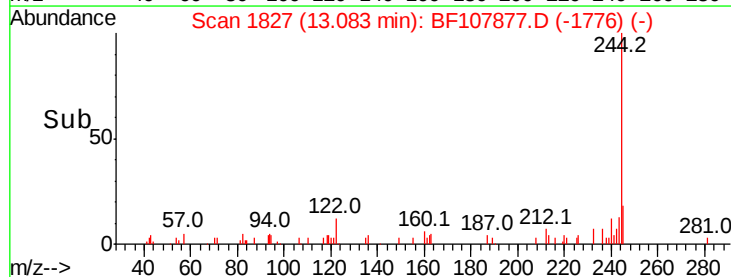
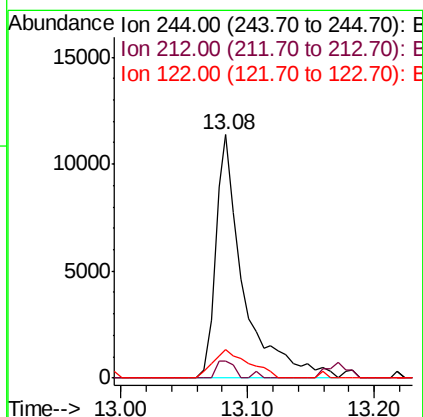
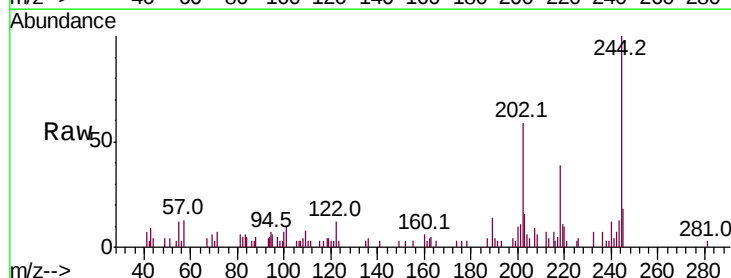
Instrument :
BNA_F
ClientSampleId :

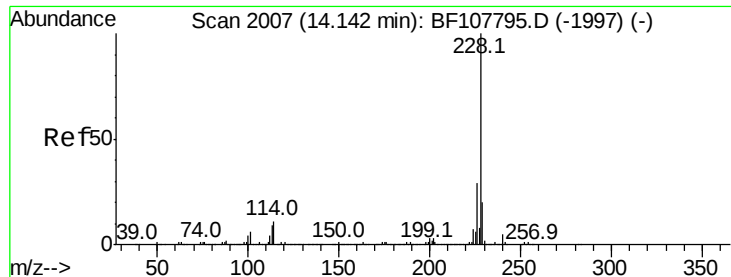
Tot Ion:202 Resp: 1088077
Ion Ratio Lower Upper
202 100
200 20.0 17.4 26.2
203 17.6 14.3 21.5



#78
Terphenyl-d14
Concen: 0.936 ng
RT: 13.08 min Scan# 1827
Delta R.T. -0.00 min
Lab File: BF107877.D
Acq: 1 Aug 2018 4:09

Tgt Ion:244 Resp: 17303
Ion Ratio Lower Upper
244 100
212 6.8 5.4 8.0
122 11.8 11.0 16.4

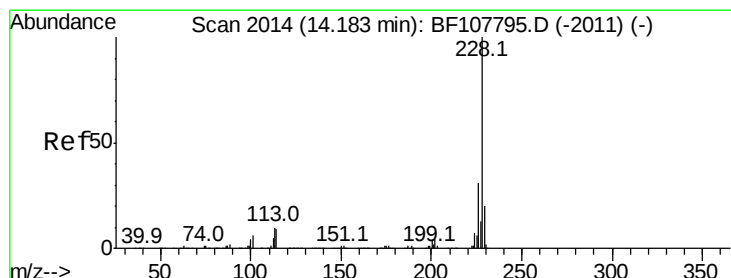
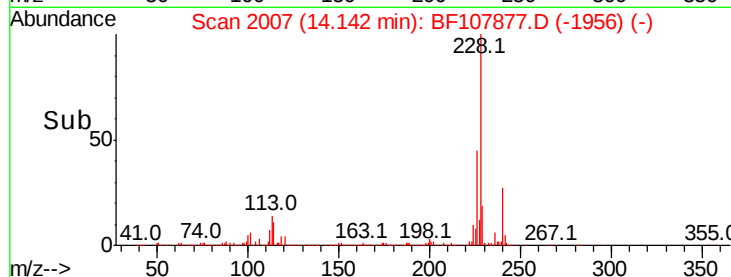
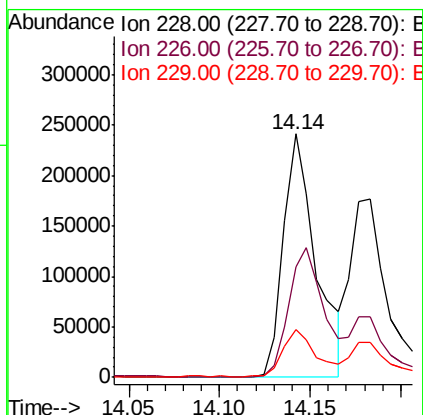
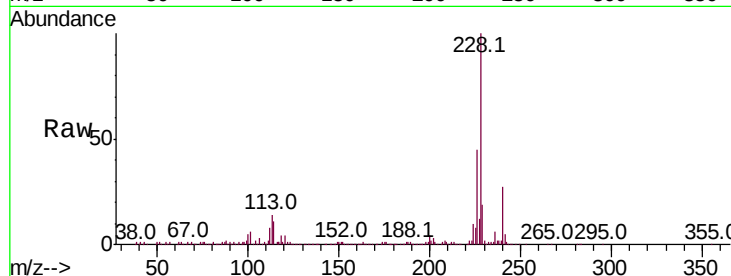




#80
Benzo(a)anthracene
Concen: 13.305 ng
RT: 14.14 min Scan# 2007
Delta R.T. -0.00 min
Lab File: BF107877.D
Acq: 1 Aug 2018 4:09

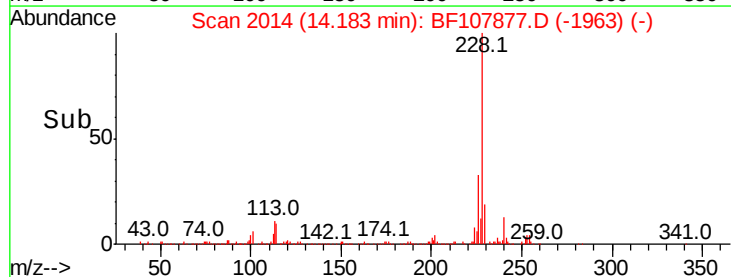
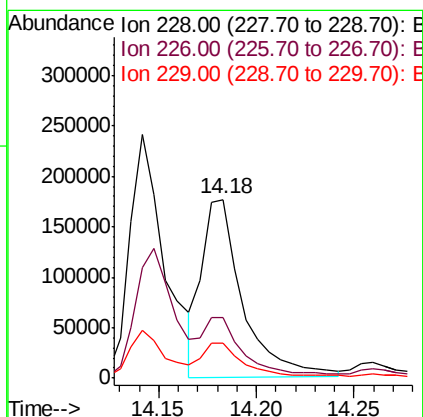
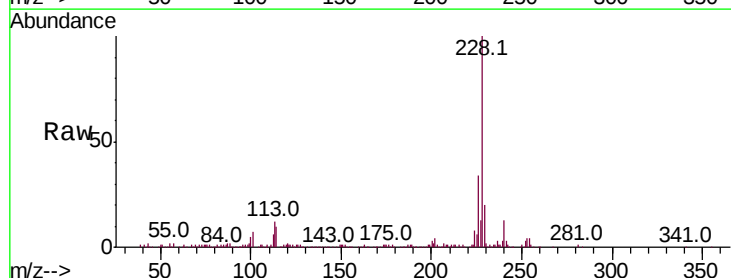
Instrument :
BNA_F
ClientSampleId :

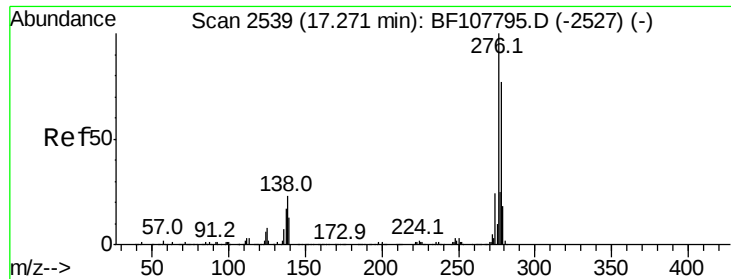
Tot Ion:228 Resp: 301966
Ion Ratio Lower Upper
228 100
226 45.3 22.6 33.8#
229 19.4 15.8 23.6



#82
Chrysene
Concen: 10.548 ng
RT: 14.18 min Scan# 2014
Delta R.T. -0.00 min
Lab File: BF107877.D
Acq: 1 Aug 2018 4:09

Tgt Ion:228 Resp: 258199
Ion Ratio Lower Upper
228 100
226 33.9 25.0 37.6
229 19.8 16.2 24.4

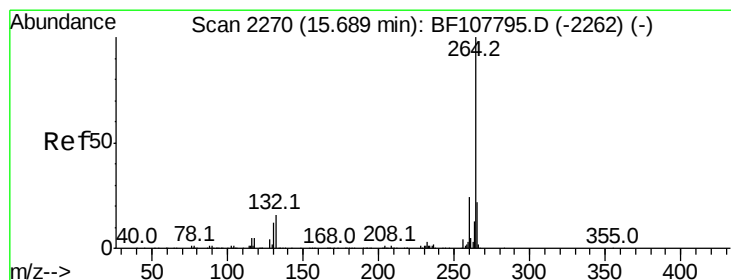
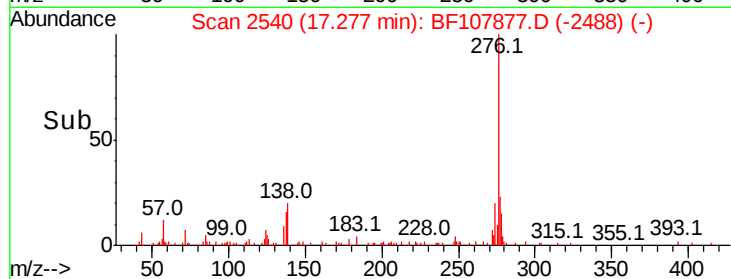
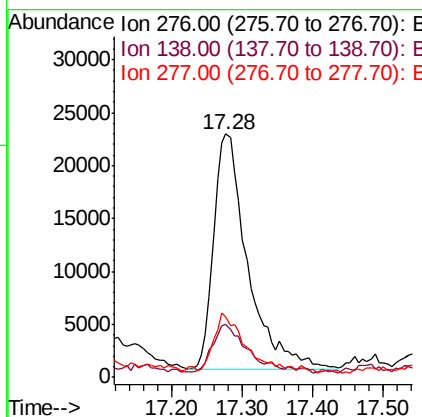
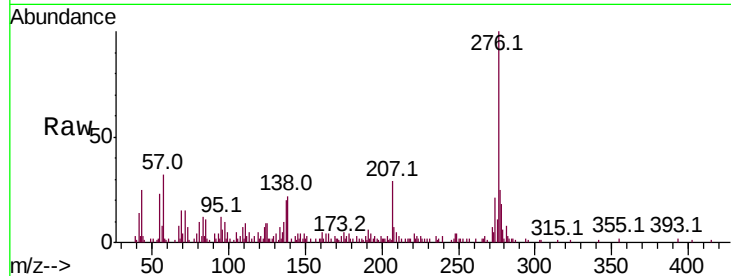




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 4.032 ng
 RT: 17.28 min Scan# 2540
 Delta R.T. 0.01 min
 Lab File: BF107877.D
 Acq: 1 Aug 2018 4:09

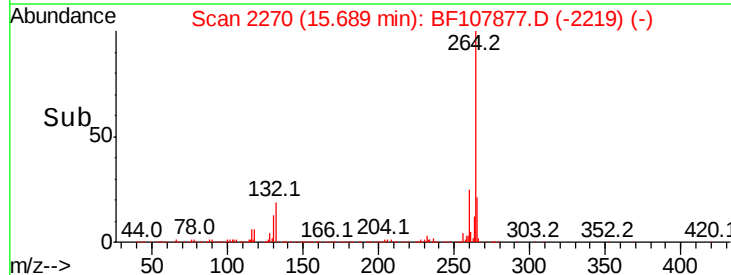
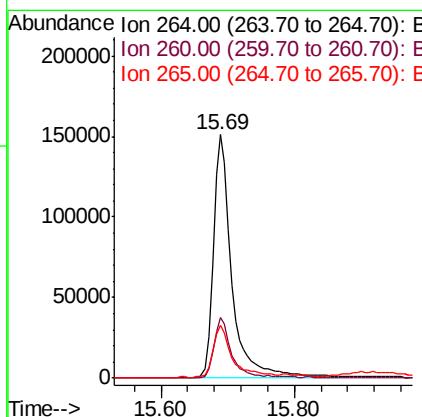
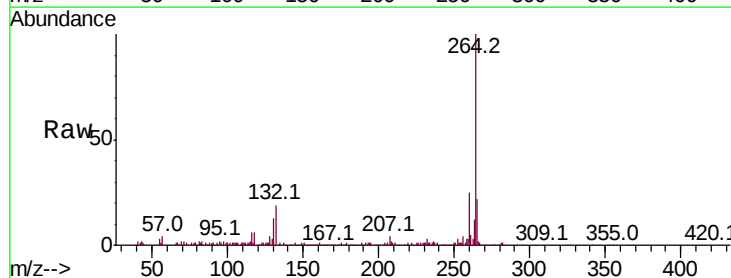
Instrument :
 BNA_F
 ClientSampleId :

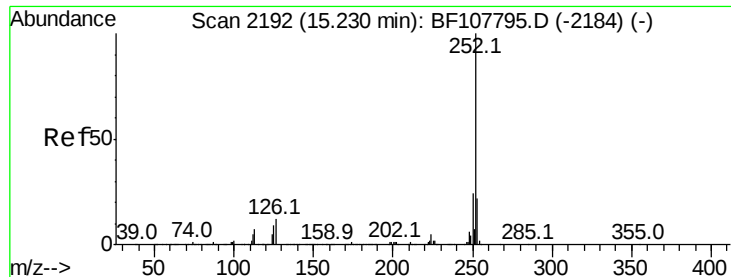
Tot Ion	Ratio	Lower	Upper
276	100		
138	20.4	25.0	37.6#
277	21.5	20.1	30.1



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.69 min Scan# 2270
 Delta R.T. -0.00 min
 Lab File: BF107877.D
 Acq: 1 Aug 2018 4:09

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.8	19.2	28.8
265	21.7	17.5	26.3





#87

Benzo(b)fluoranthene

Concen: 15.988 ng

RT: 15.24 min Scan# 2193

Delta R.T. 0.01 min

Lab File: BF107877.D

Acq: 1 Aug 2018 4:09

Instrument :

BNA_F

ClientSampleId :

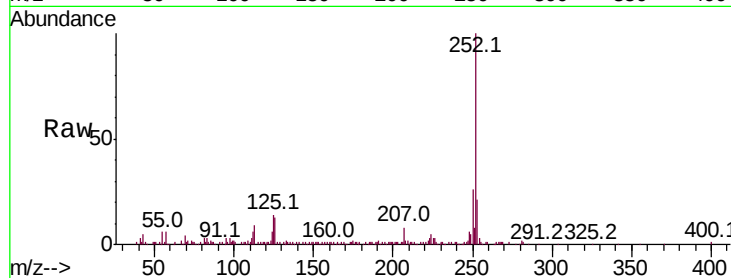
Tot Ion:252 Resp: 232819

Ion Ratio Lower Upper

252 100

253 21.2 17.0 25.6

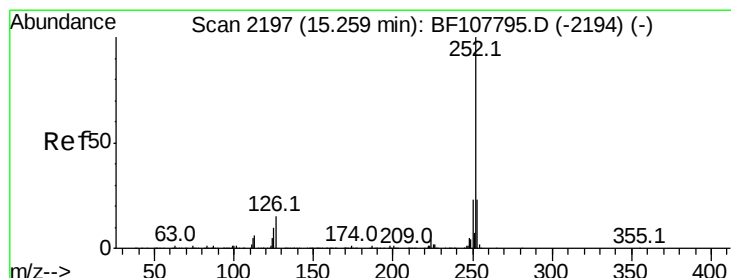
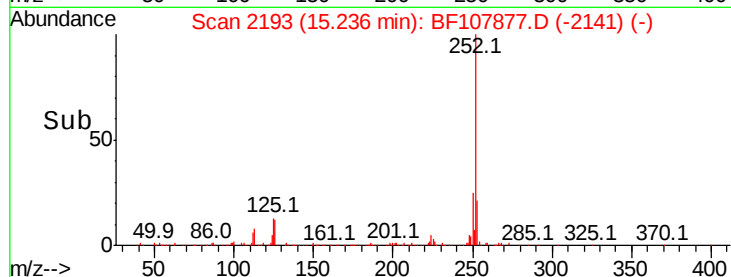
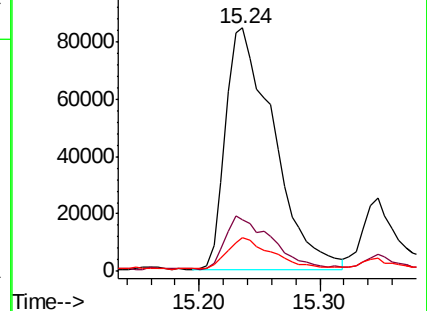
125 13.9 9.0 13.6#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 13.022 ng

RT: 15.24 min Scan# 2193

Delta R.T. -0.02 min

Lab File: BF107877.D

Acq: 1 Aug 2018 4:09

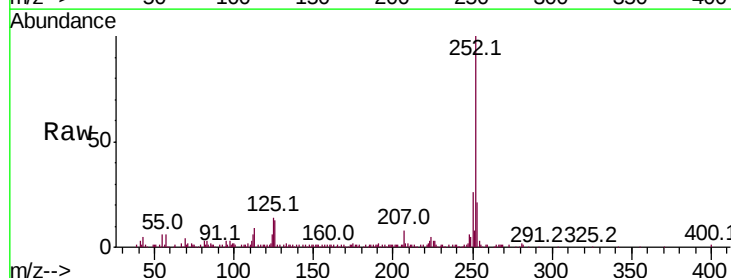
Tgt Ion:252 Resp: 232819

Ion Ratio Lower Upper

252 100

253 21.2 17.9 26.9

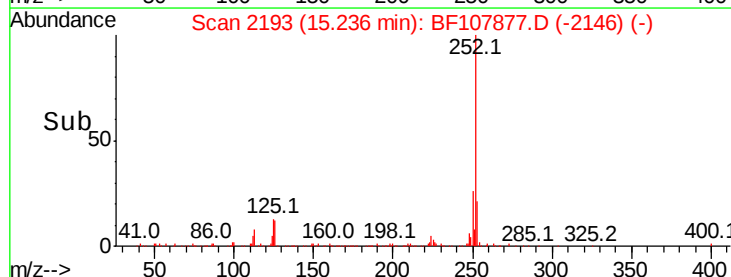
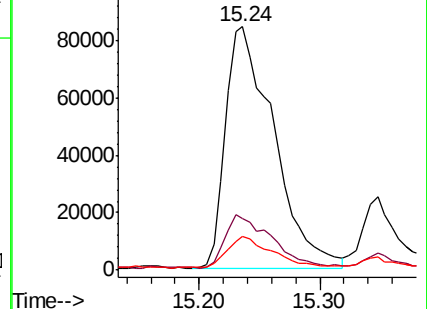
125 13.9 10.2 15.2

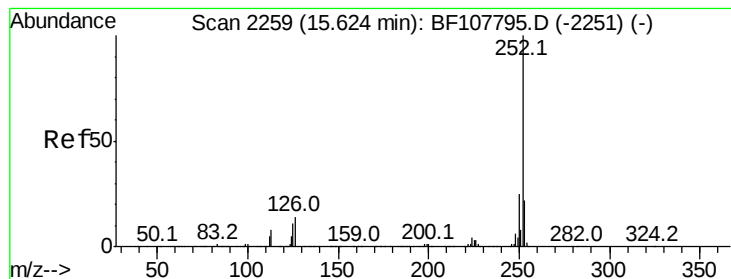


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 12.714 ng

RT: 15.62 min Scan# 2259

Delta R.T. -0.00 min

Lab File: BF107877.D

Acq: 1 Aug 2018 4:09

Instrument :

BNA_F

ClientSampleId :

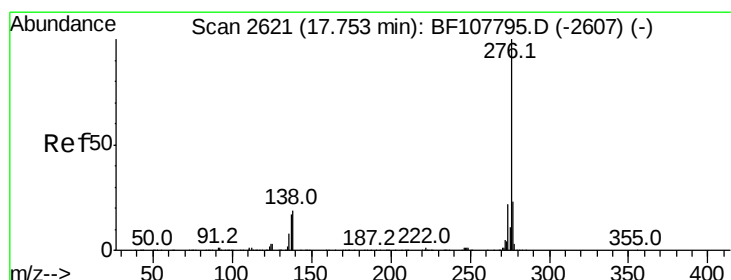
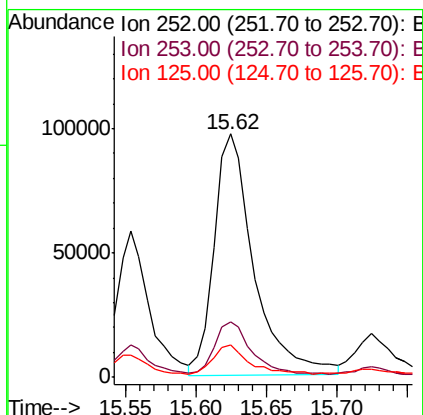
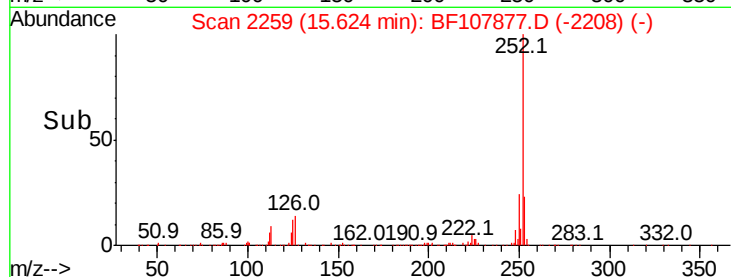
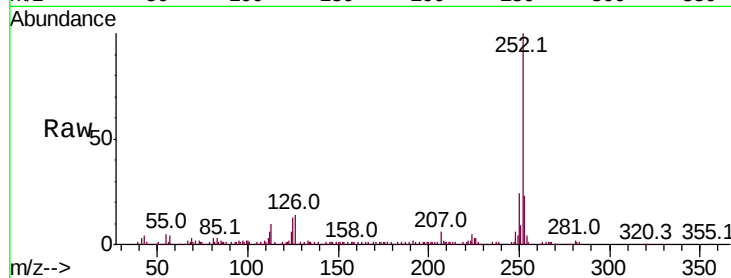
Tot Ion:252 Resp: 191124

Ion Ratio Lower Upper

252 100

253 22.8 17.1 25.7

125 13.1 9.8 14.6



#91

Benzo(g,h,i)perylene

Concen: 6.233 ng

RT: 17.76 min Scan# 2622

Delta R.T. 0.01 min

Lab File: BF107877.D

Acq: 1 Aug 2018 4:09

Tgt Ion:276 Resp: 79089

Ion Ratio Lower Upper

276 100

277 23.0 17.9 26.9

138 19.9 21.8 32.8#

