

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051617\
 Data File : BF095186.D
 Acq On : 17 May 2017 9:51
 Operator : SJ/MA
 Sample : I3153-02DL 10X
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 17 15:20:30 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 03 17:24:51 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.77	152	80604	20.00	ng	0.04
21) Naphthalene-d8	9.79	136	306415	20.00	ng	0.04
38) Acenaphthene-d10	12.64	164	105388	20.00	ng	0.05
63) Phenanthrene-d10	15.05	188	153685	20.00	ng	0.06
75) Chrysene-d12	18.69	240	160521	20.00	ng	0.04
86) Perylene-d12	20.37	264	96762	20.00	ng	0.06

System Monitoring Compounds						
5) 2-Fluorophenol	5.80	112	43655	9.03	ng	0.12
7) Phenol-d6	7.35	99	58994	10.17	ng	0.08
23) Nitrobenzene-d5	8.68	82	36590	7.53	ng	0.05
41) 2,4,6-Tribromophenol	13.95	330	8129	9.42	ng	0.07
44) 2-Fluorobiphenyl	11.57	172	80007	10.93	ng	0.04
78) Terphenyl-d14	17.34	244	58488	8.03	ng	0.03

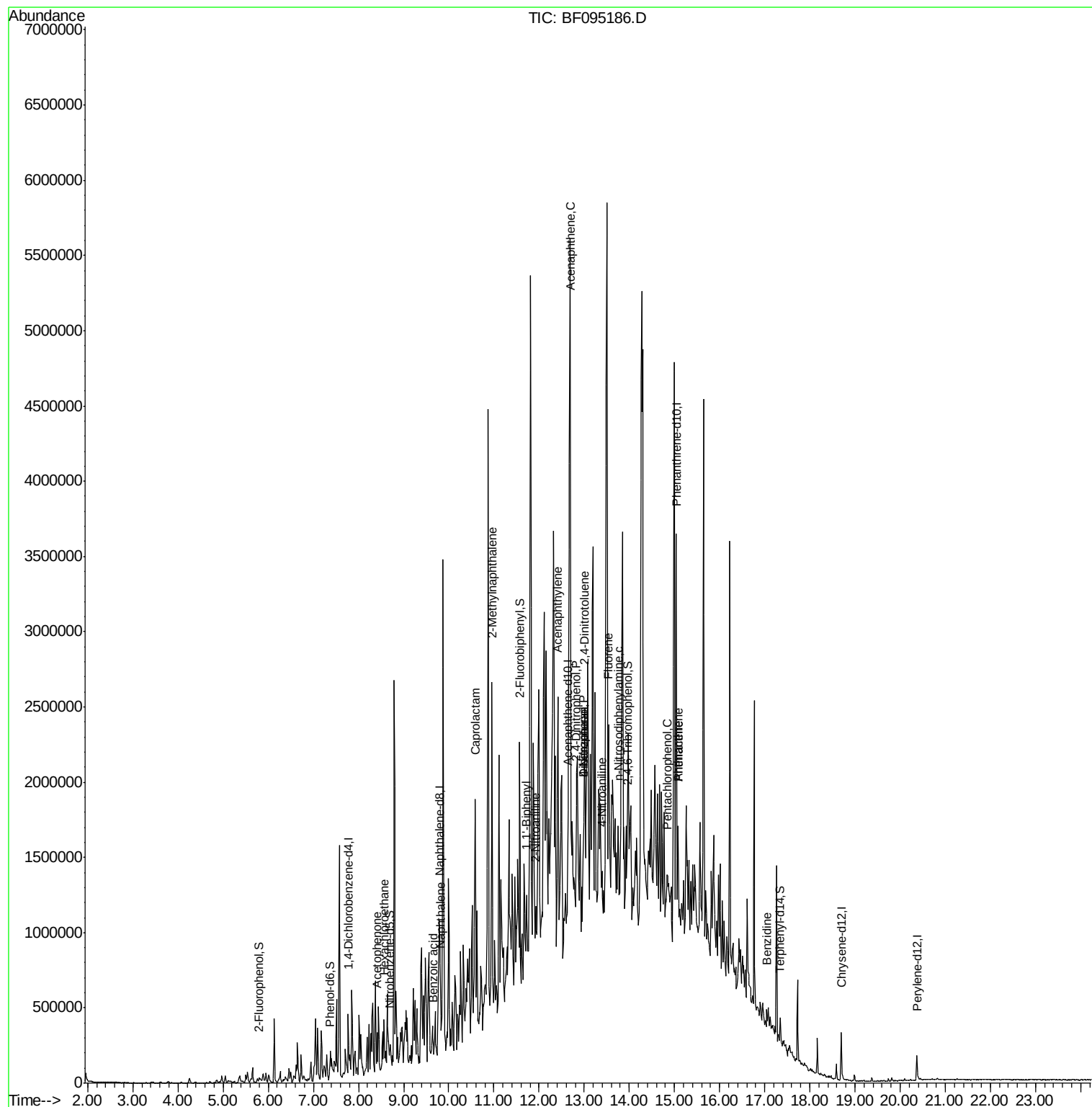
Target Compounds						Qvalue
18) Hexachloroethane	8.57	117	10950	5.11	ng	# 1
22) Acetophenone	8.41	105	154562	21.02	ng	# 49
31) Naphthalene	9.82	128	68530	4.45	ng	# 94
32) Benzoic acid	9.67	122	2086	5.72	ng	# 29
35) Caprolactam	10.59	113	51619	40.97	ng	# 62
37) 2-Methylnaphthalene	10.96	142	788648	78.03	ng	98
45) 1,1'-Biphenyl	11.72	154	142698	16.08	ng	98
47) 2-Nitroaniline	11.93	65	5580	2.85	ng	# 1
48) Acenaphthylene	12.42	152	36148	3.22	ng	# 1
51) Acenaphthene	12.69	154	56563	8.44	ng	# 81
53) 2,4-Dinitrophenol	12.82	184	221	6.46	ng	# 1
54) Dibenzofuran	12.98	168	58836	6.34	ng	# 60
55) 4-Nitrophenol	12.98	139	33362	29.32	ng	# 71
56) 2,4-Dinitrotoluene	13.01	165	22843	10.07	ng	# 57
57) Fluorene	13.54	166	127626	15.82	ng	# 91
61) 4-Nitroaniline	13.39	138	5906	3.40	ng	83
65) n-Nitrosodiphenylamine	13.76	169	169989	30.48	ng	# 51
69) Pentachlorophenol	14.85	266	108	6.00	ng	# 16
70) Phenanthrene	15.08	178	307015	34.77	ng	98
71) Anthracene	15.08	178	307015	34.04	ng	99
76) Benzidine	17.04	184	1367	6.86	ng	# 1

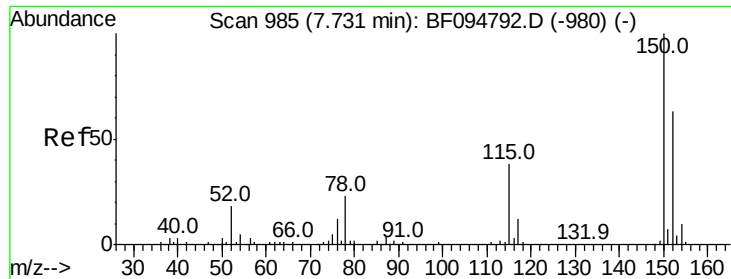
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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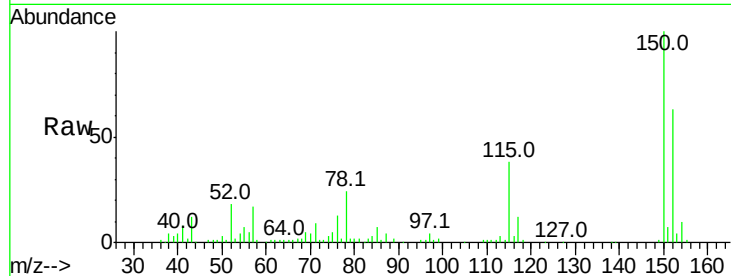


#1

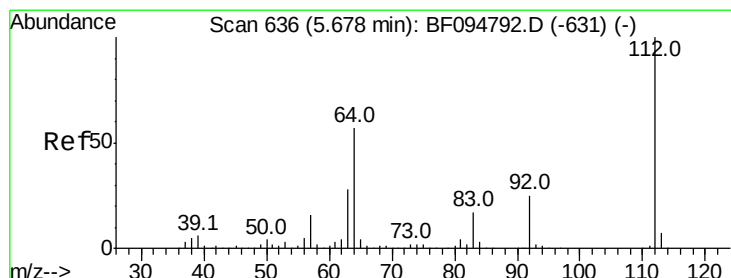
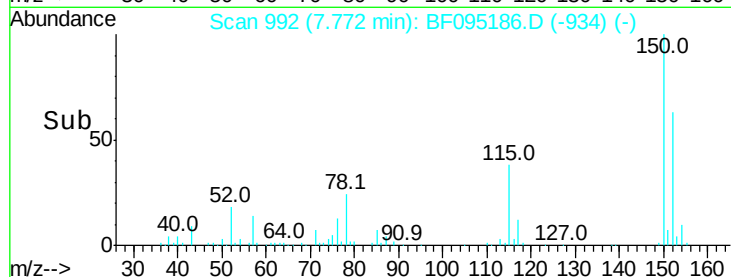
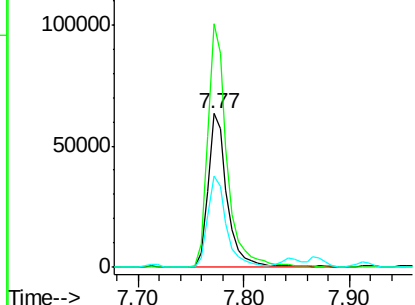
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.77 min Scan# 992
Delta R.T. 0.04 min
Lab File: BF095186.D
Acq: 17 May 2017 9:51

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 80604
Ion Ratio Lower Upper
152 100
150 158.6 126.2 189.2
115 59.8 52.2 78.2



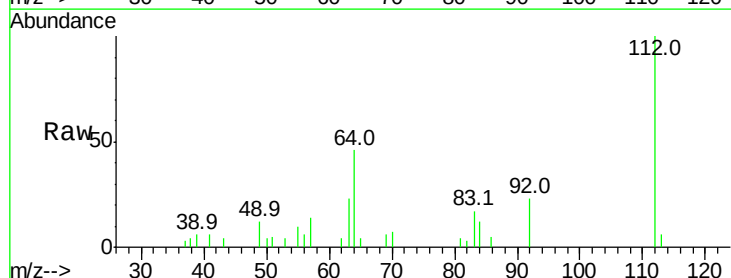
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



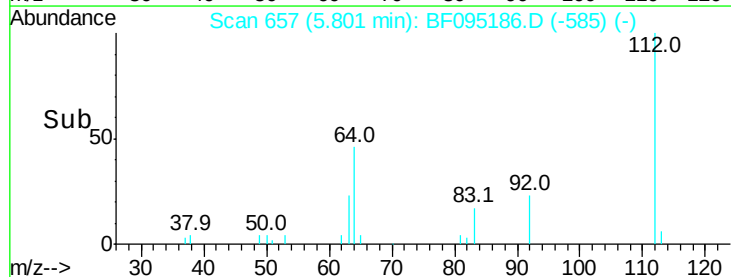
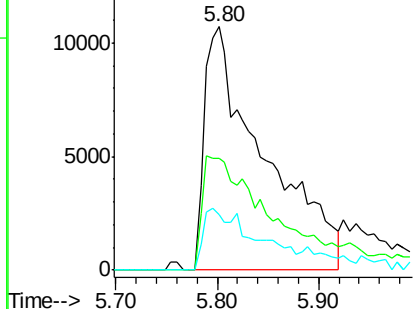
#5

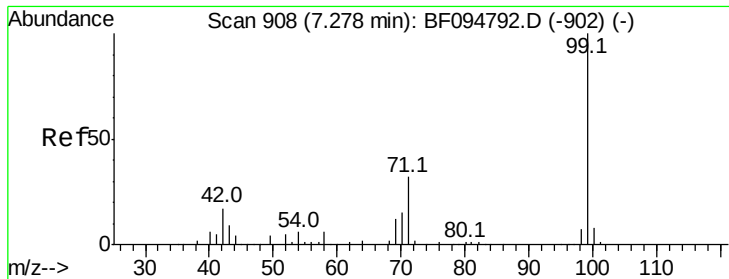
2-Fluorophenol
Concen: 9.03 ng
RT: 5.80 min Scan# 657
Delta R.T. 0.12 min
Lab File: BF095186.D
Acq: 17 May 2017 9:51

Tgt Ion:112 Resp: 43655
Ion Ratio Lower Upper
112 100
64 46.0 46.0 69.0#
63 22.7 23.4 35.0#



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 10.17 ng

RT: 7.35 min Scan# 921

Delta R.T. 0.08 min

Lab File: BF095186.D

Acq: 17 May 2017 9:51

Instrument :

BNA_F

ClientSampled :

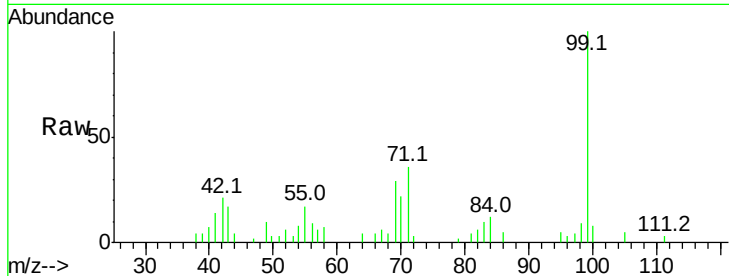
Tot Ion: 99 Resp: 58994

Ion Ratio Lower Upper

99 100

42 20.8 13.5 20.3#

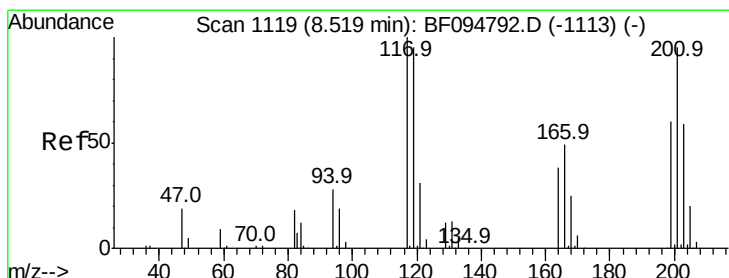
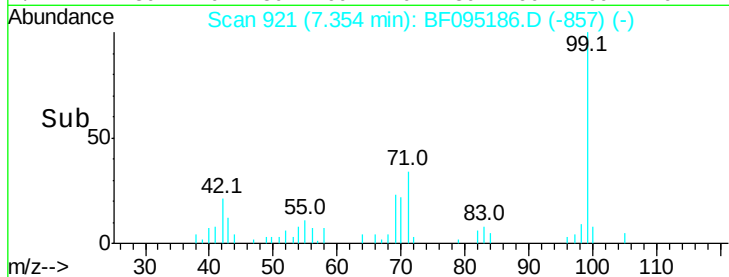
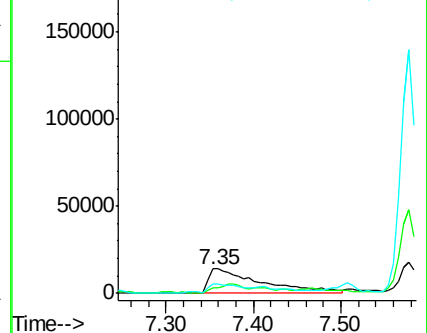
71 36.3 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#18

Hexachloroethane

Concen: 5.11 ng

RT: 8.57 min Scan# 1127

Delta R.T. 0.05 min

Lab File: BF095186.D

Acq: 17 May 2017 9:51

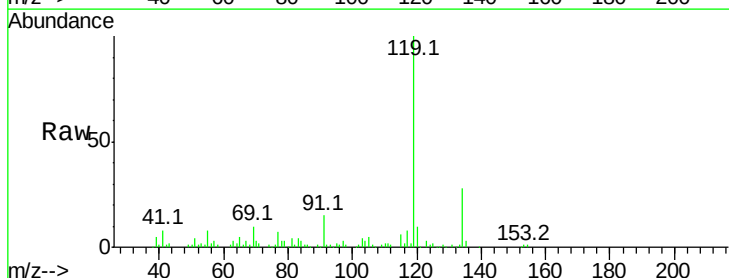
Tgt Ion: 117 Resp: 10950

Ion Ratio Lower Upper

117 100

119 1308.3 77.4 116.0#

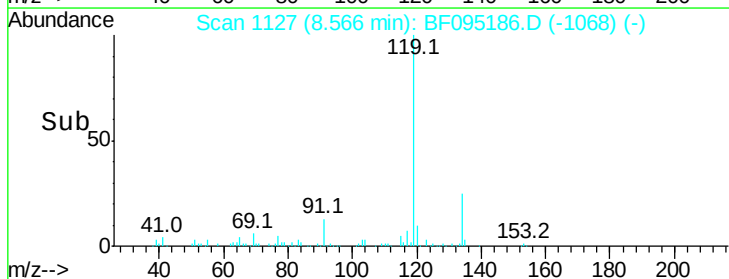
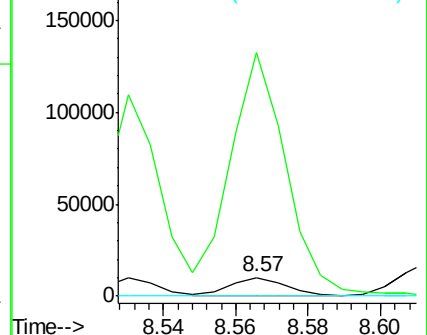
201 0.0 94.6 141.8#

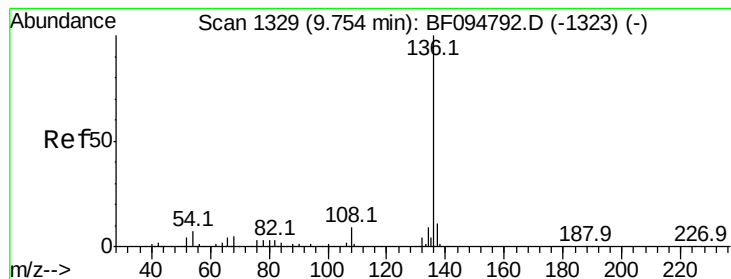


Abundance Ion 117.00 (116.70 to 117.70): E

Ion 119.00 (118.70 to 119.70): E

Ion 201.00 (200.70 to 201.70): E





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.79 min Scan# 1335

Delta R.T. 0.04 min

Lab File: BF095186.D

Acq: 17 May 2017 9:51

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 306415

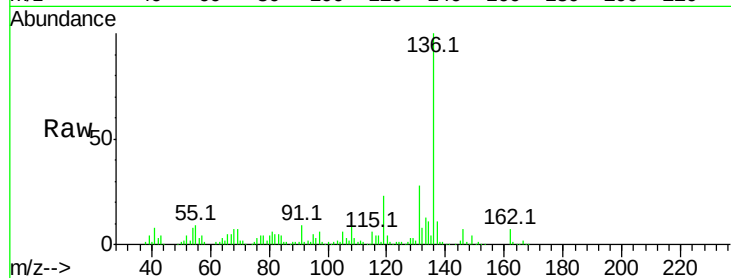
Ion Ratio Lower Upper

136 100

137 10.8 8.5 12.7

54 8.0 4.9 7.3#

68 6.8 4.1 6.1#

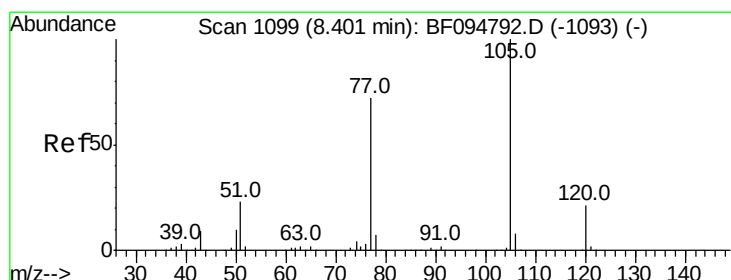
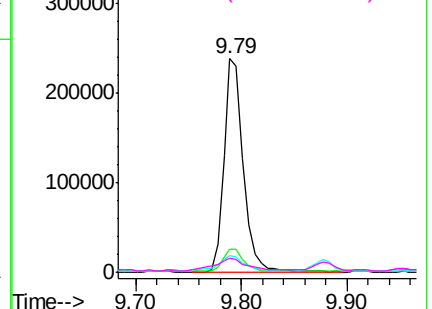
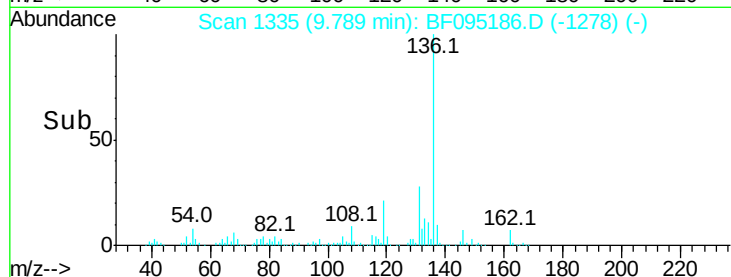


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#22

Acetophenone

Concen: 21.02 ng

RT: 8.41 min Scan# 1101

Delta R.T. 0.01 min

Lab File: BF095186.D

Acq: 17 May 2017 9:51

Tgt Ion:105 Resp: 154562

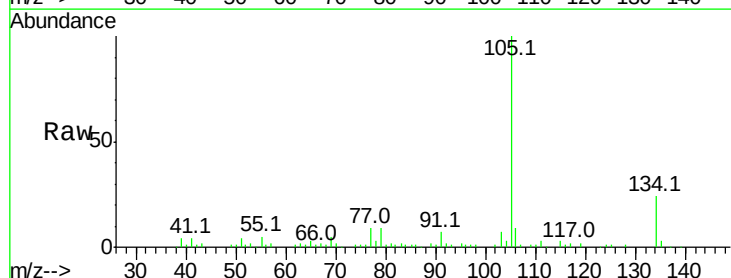
Ion Ratio Lower Upper

105 100

71 0.5 2.8 4.2#

51 3.7 30.7 46.1#

120 0.0 17.4 26.0#

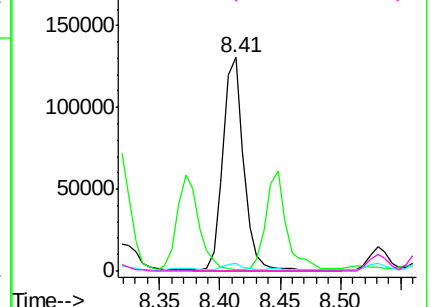
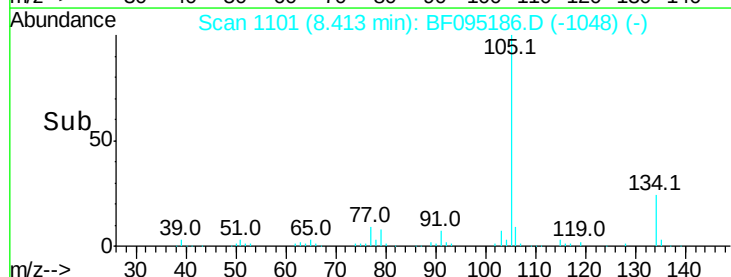


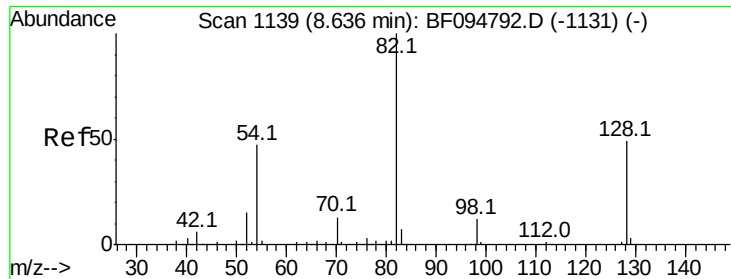
Abundance Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BF0

Ion 51.00 (50.70 to 51.70): BF0

Ion 120.00 (119.70 to 120.70): E

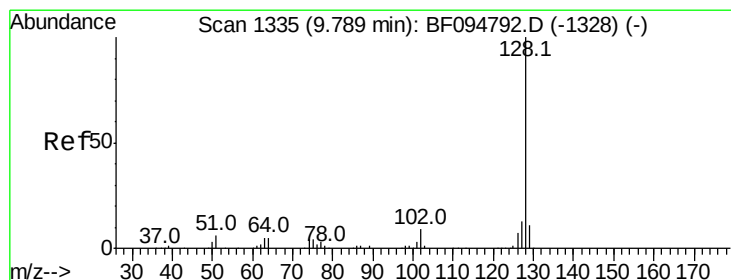
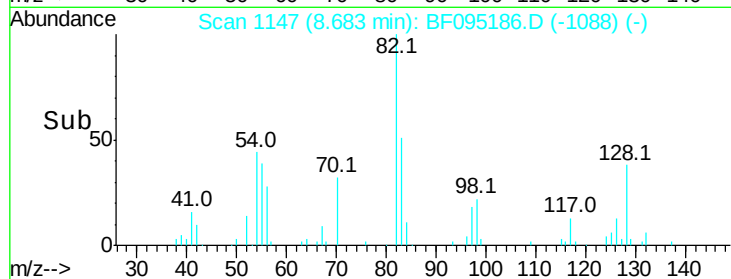
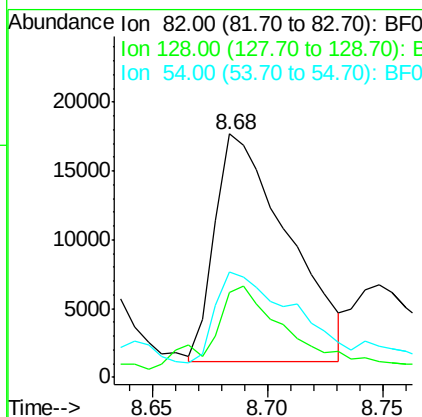
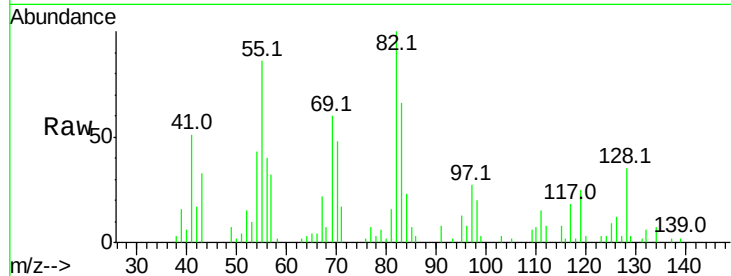




#23
 Nitrobenzene-d5
 Concen: 7.53 ng
 RT: 8.68 min Scan# 1147
 Delta R.T. 0.05 min
 Lab File: BF095186.D
 Acq: 17 May 2017 9:51

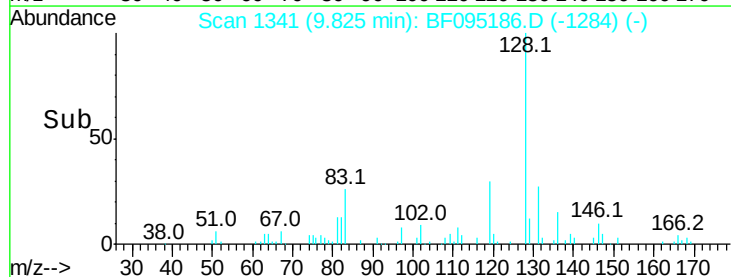
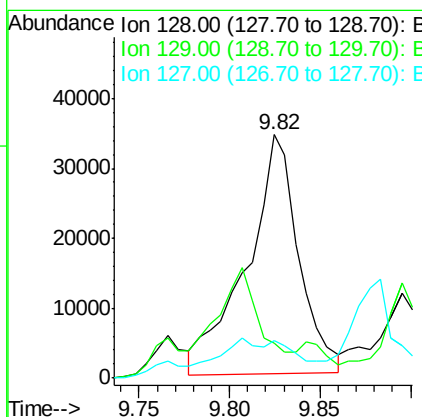
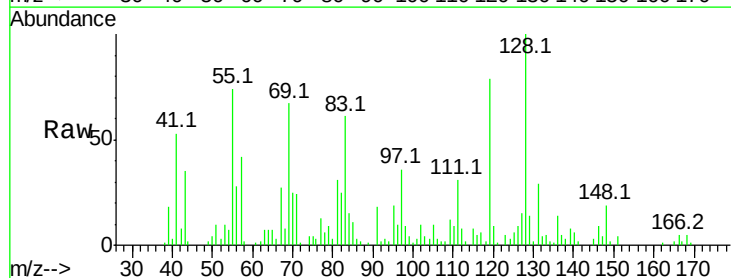
Instrument :
 BNA_F
 ClientSampled :

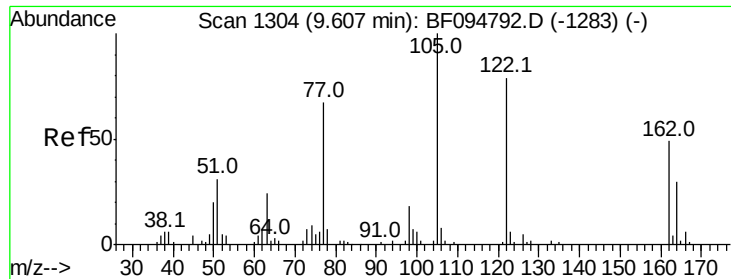
Tot Ion:	82	Resp:	36590
Ion Ratio	Lower	Upper	
82	100		
128	34.7	34.0	51.0
54	43.3	42.2	63.2



#31
 Naphthalene
 Concen: 4.45 ng
 RT: 9.82 min Scan# 1341
 Delta R.T. 0.04 min
 Lab File: BF095186.D
 Acq: 17 May 2017 9:51

Tgt Ion:	128	Resp:	68530
Ion Ratio	Lower	Upper	
128	100		
129	14.3	9.0	13.6#
127	15.2	10.8	16.2

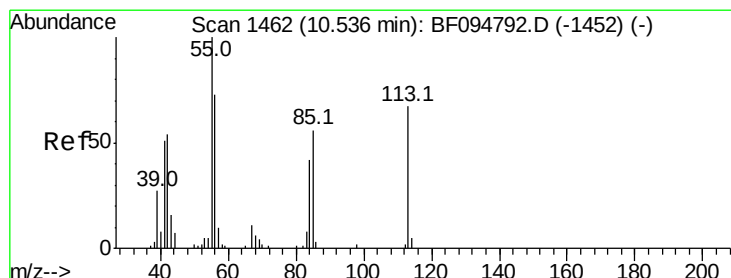
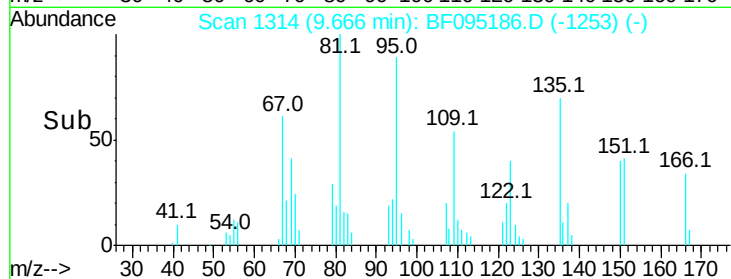
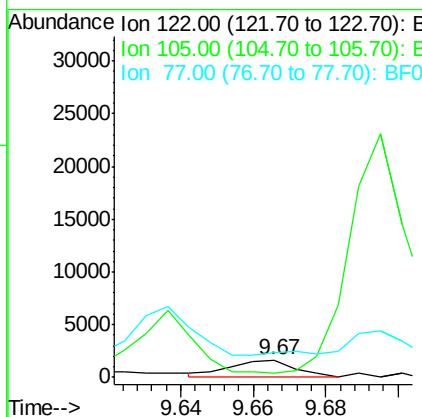
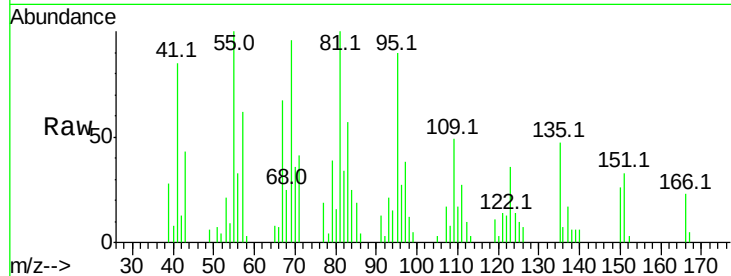




#32
Benzoic acid
Concen: 5.72 ng
RT: 9.67 min Scan# 1314
Delta R.T. 0.06 min
Lab File: BF095186.D
Acq: 17 May 2017 9:51

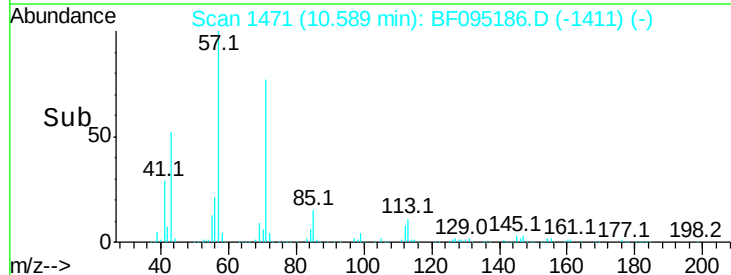
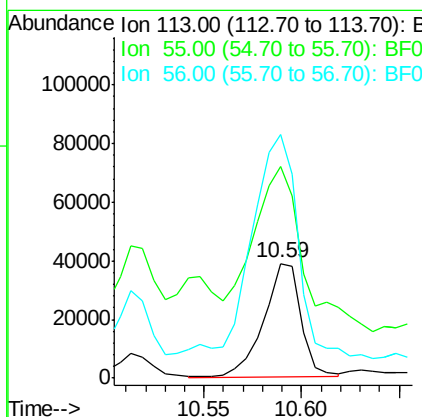
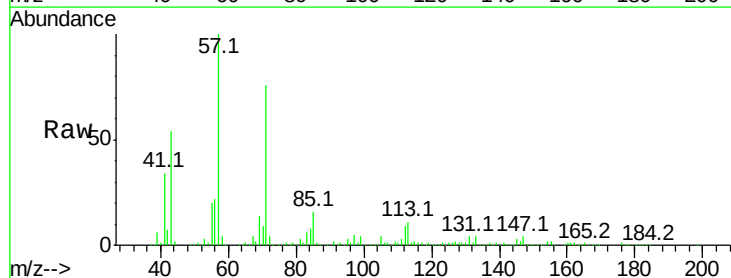
Instrument :
BNA_F
ClientSampleId :

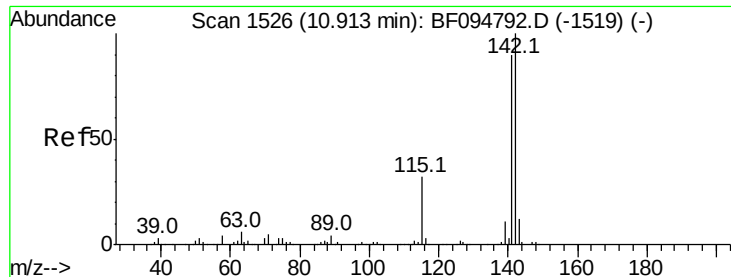
Tot Ion:122 Resp: 2086
Ion Ratio Lower Upper
122 100
105 25.3 103.3 143.3#
77 141.7 73.7 113.7#



#35
Caprolactam
Concen: 40.97 ng
RT: 10.59 min Scan# 1471
Delta R.T. 0.05 min
Lab File: BF095186.D
Acq: 17 May 2017 9:51

Tgt Ion:113 Resp: 51619
Ion Ratio Lower Upper
113 100
55 184.9 150.2 190.2
56 212.2 107.8 147.8#

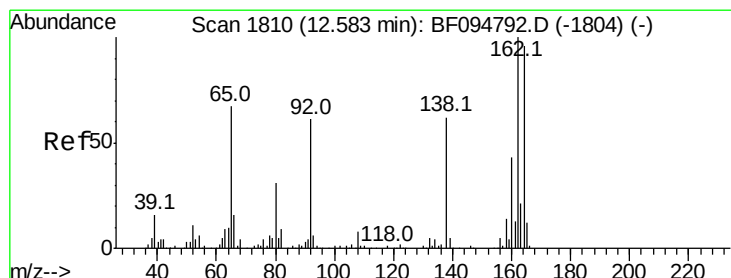
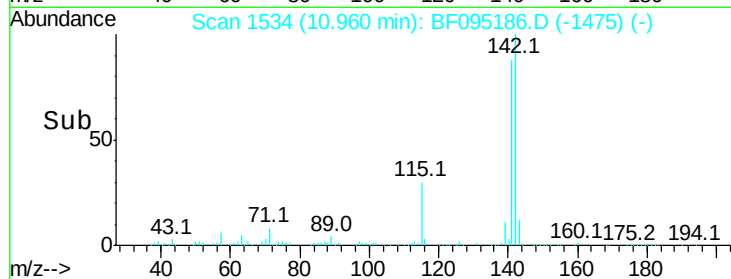
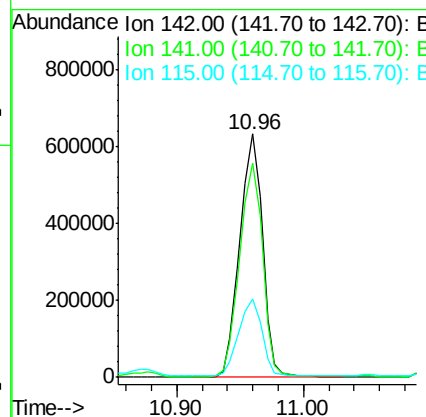
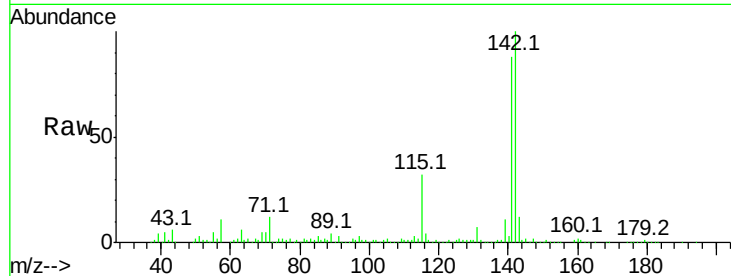




#37
2-Methylnaphthalene
Concen: 78.03 ng
RT: 10.96 min Scan# 1534
Delta R.T. 0.05 min
Lab File: BF095186.D
Acq: 17 May 2017 9:51

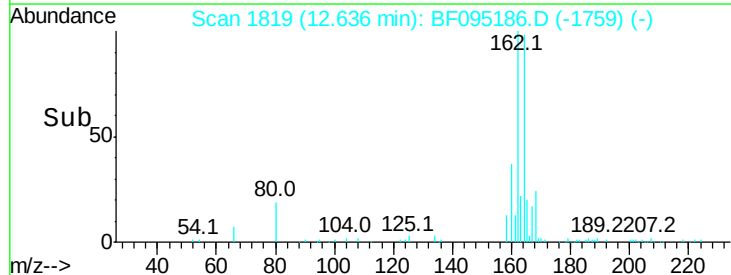
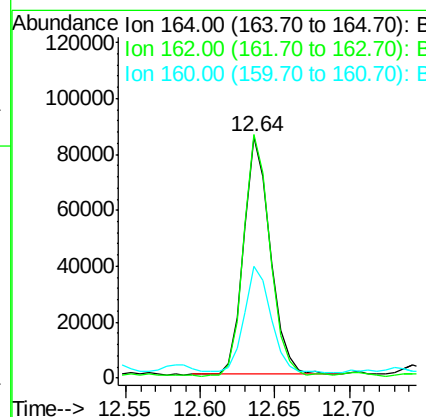
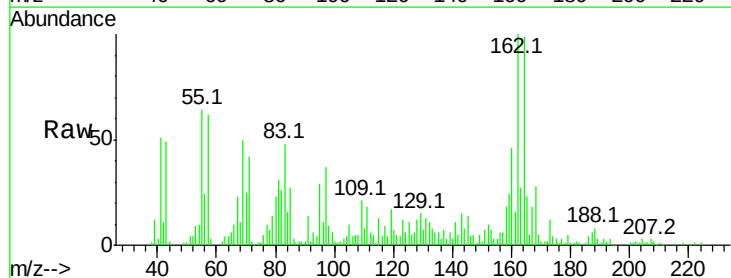
Instrument :
BNA_F
ClientSampled :

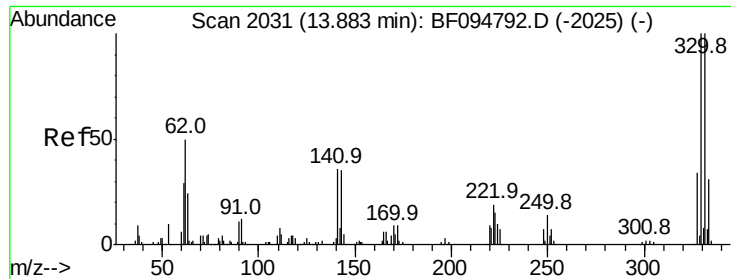
Tot Ion:142 Resp: 788648
Ion Ratio Lower Upper
142 100
141 87.8 71.3 106.9
115 32.2 27.1 40.7



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.64 min Scan# 1819
Delta R.T. 0.05 min
Lab File: BF095186.D
Acq: 17 May 2017 9:51

Tgt Ion:164 Resp: 105388
Ion Ratio Lower Upper
164 100
162 100.7 82.6 123.8
160 46.3 36.2 54.2

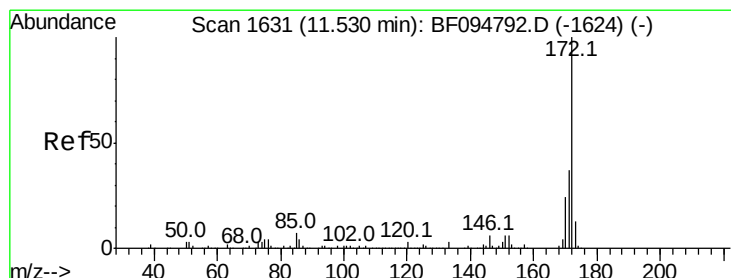
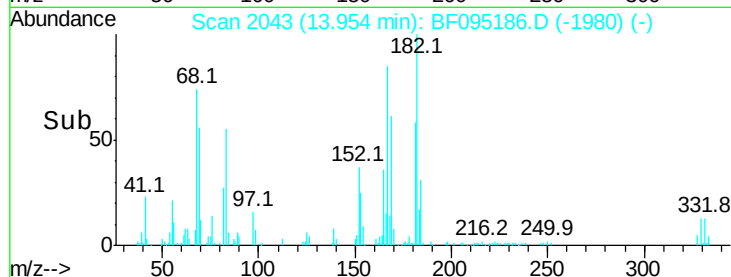
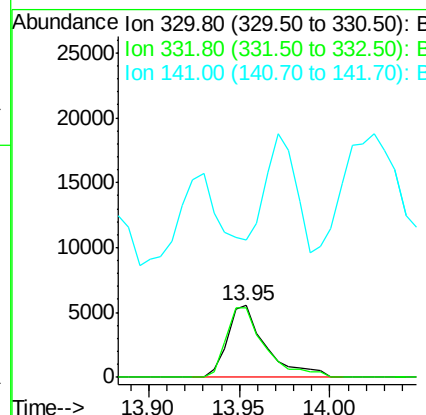
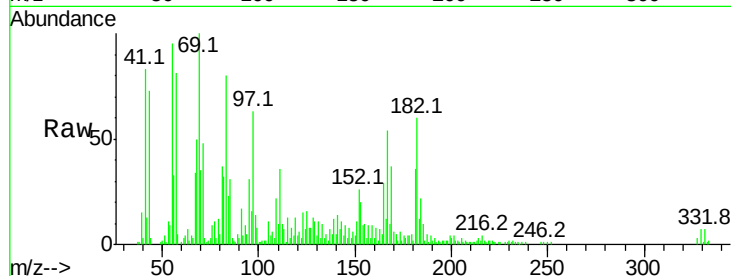




#41
 2,4,6-Tribromophenol
 Concen: 9.42 ng
 RT: 13.95 min Scan# 2043
 Delta R.T. 0.07 min
 Lab File: BF095186.D
 Acq: 17 May 2017 9:51

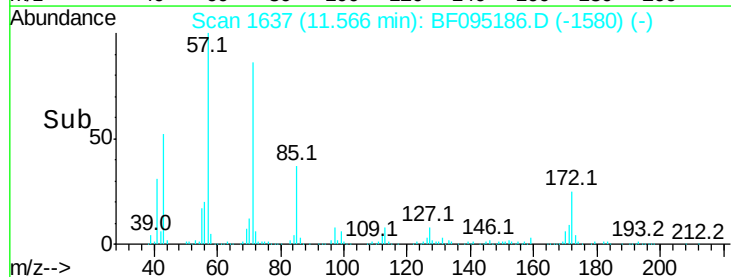
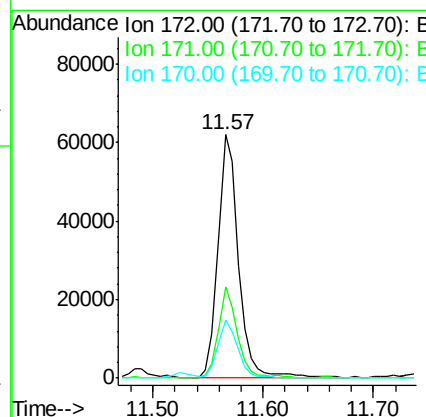
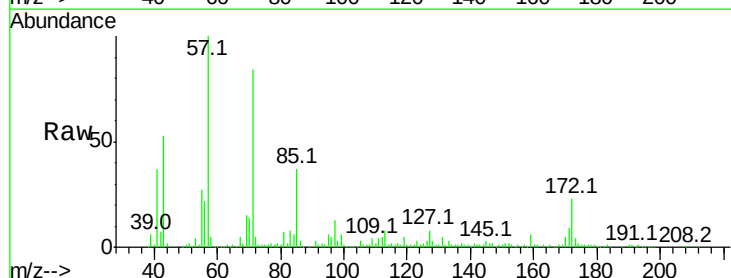
Instrument :
 BNA_F
 ClientSampled :

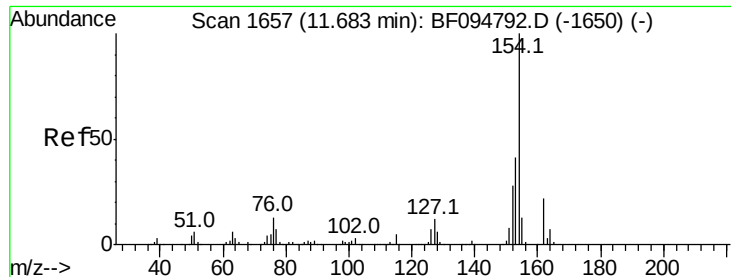
Tot Ion:330 Resp: 8129
 Ion Ratio Lower Upper
 330 100
 332 97.9 76.6 115.0
 141 152.0 31.4 47.2#



#44
 2-Fluorobiphenyl
 Concen: 10.93 ng
 RT: 11.57 min Scan# 1637
 Delta R.T. 0.04 min
 Lab File: BF095186.D
 Acq: 17 May 2017 9:51

Tgt Ion:172 Resp: 80007
 Ion Ratio Lower Upper
 172 100
 171 37.3 29.6 44.4
 170 23.6 19.8 29.8





#45

1,1'-Biphenyl

Concen: 16.08 ng

RT: 11.72 min Scan# 1664

Delta R.T. 0.04 min

Lab File: BF095186.D

Acq: 17 May 2017 9:51

Instrument :

BNA_F

ClientSampled :

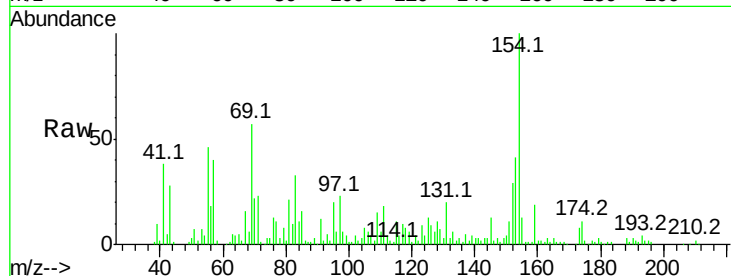
Tot Ion:154 Resp: 142698

Ion Ratio Lower Upper

154 100

153 41.2 21.2 61.2

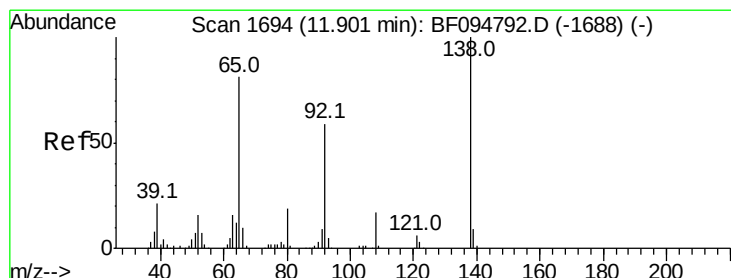
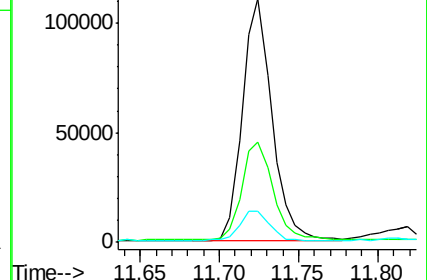
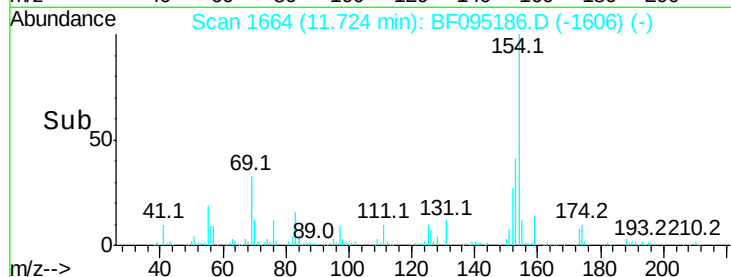
76 12.7 0.0 29.9



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): BF0



#47

2-Nitroaniline

Concen: 2.85 ng

RT: 11.93 min Scan# 1699

Delta R.T. 0.03 min

Lab File: BF095186.D

Acq: 17 May 2017 9:51

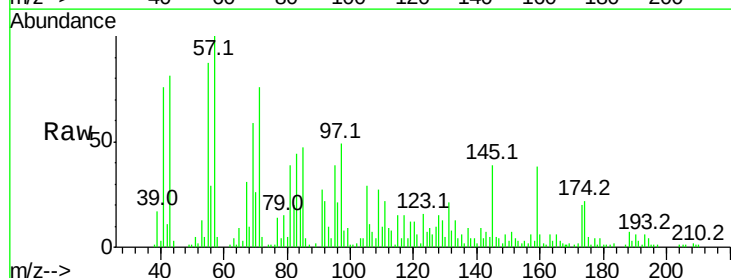
Tgt Ion: 65 Resp: 5580

Ion Ratio Lower Upper

65 100

92 248.3 53.9 80.9#

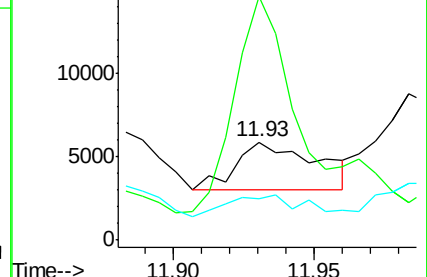
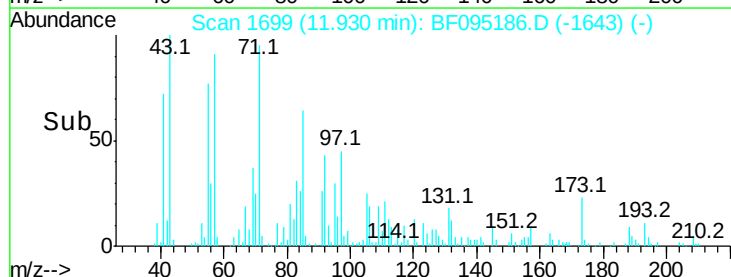
138 42.8 78.8 118.2#

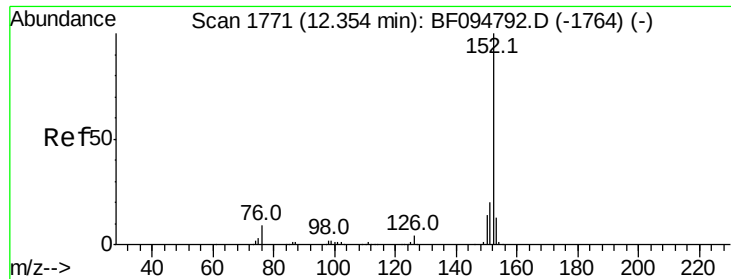


Abundance Ion 65.00 (64.70 to 65.70): BF0

Ion 92.00 (91.70 to 92.70): BF0

Ion 138.00 (137.70 to 138.70): E





#48

Acenaphthylene

Concen: 3.22 ng

RT: 12.42 min Scan# 1783

Delta R.T. 0.07 min

Lab File: BF095186.D

Acq: 17 May 2017 9:51

Instrument :

BNA_F

ClientSampleId :

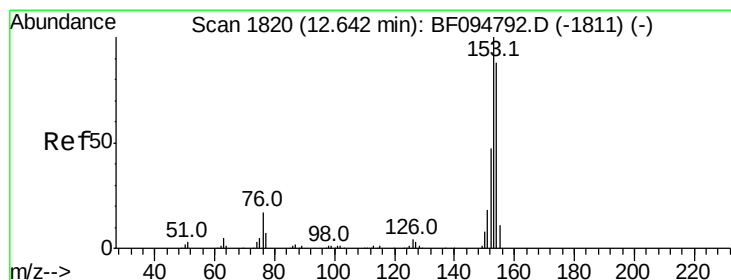
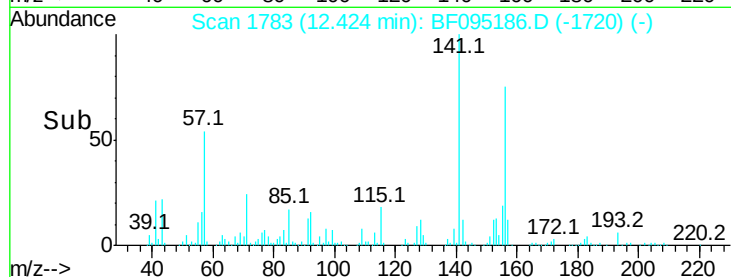
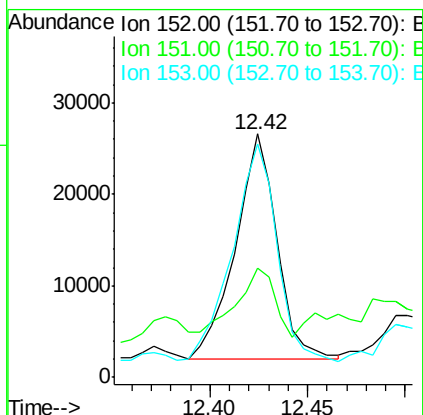
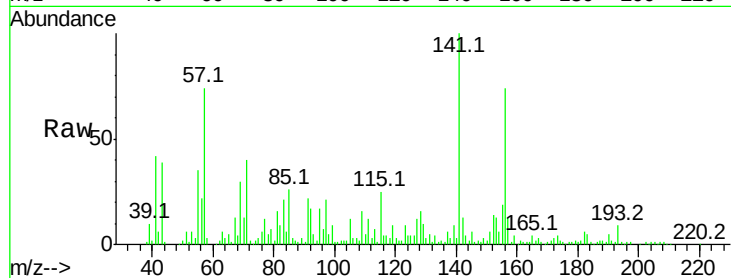
Tot Ion:152 Resp: 36148

Ion Ratio Lower Upper

152 100

151 45.0 16.8 25.2#

153 96.1 10.8 16.2#



#51

Acenaphthene

Concen: 8.44 ng

RT: 12.69 min Scan# 1828

Delta R.T. 0.05 min

Lab File: BF095186.D

Acq: 17 May 2017 9:51

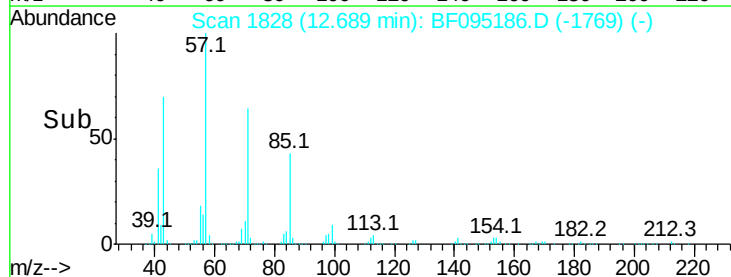
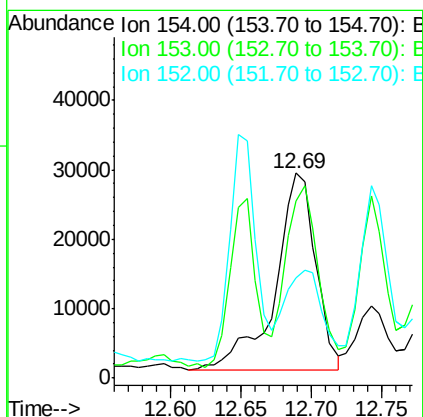
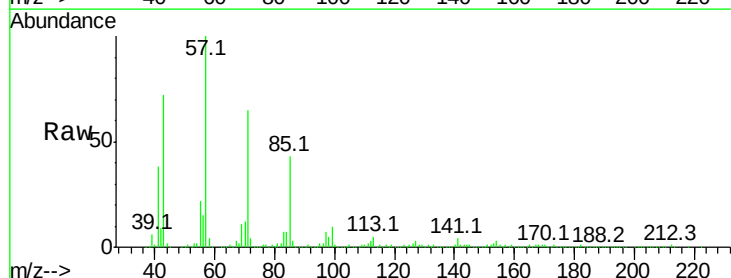
Tgt Ion:154 Resp: 56563

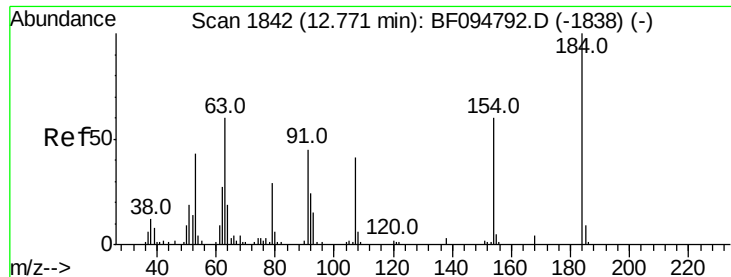
Ion Ratio Lower Upper

154 100

153 86.5 90.5 135.7#

152 48.9 43.6 65.4

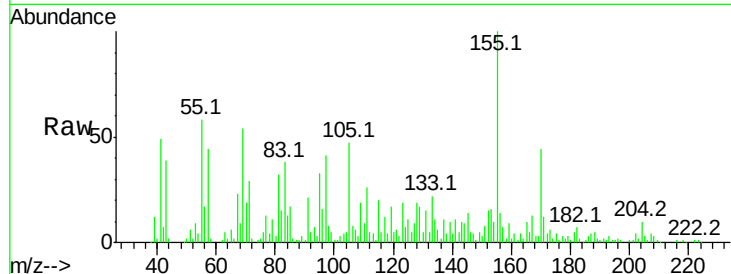




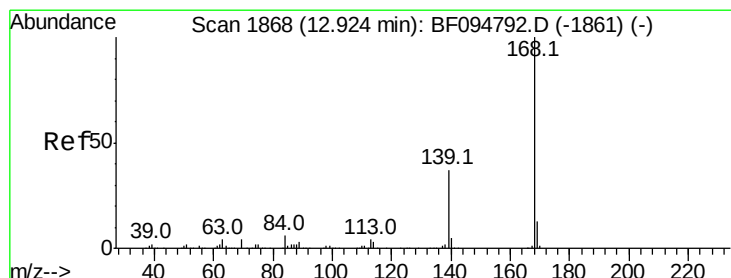
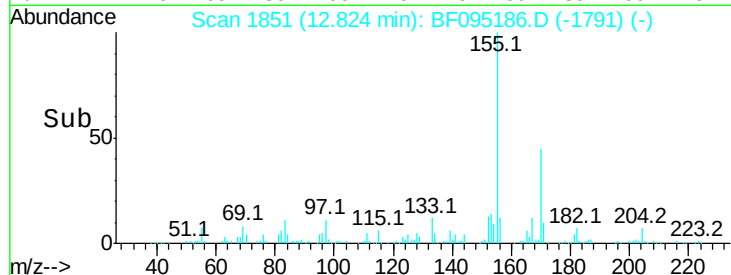
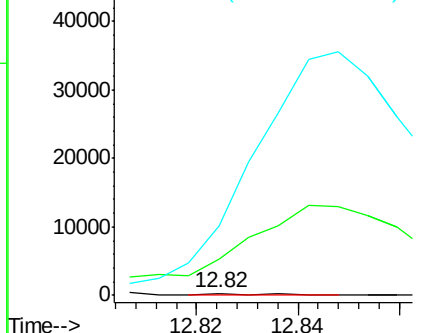
#53
 2,4-Dinitrophenol
 Concen: 6.46 ng
 RT: 12.82 min Scan# 1851
 Delta R.T. 0.05 min
 Lab File: BF095186.D
 Acq: 17 May 2017 9:51

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:184 Resp: 221
 Ion Ratio Lower Upper
 184 100
 63 1643.8 62.7 94.1#
 154 3165.3 81.1 121.7#

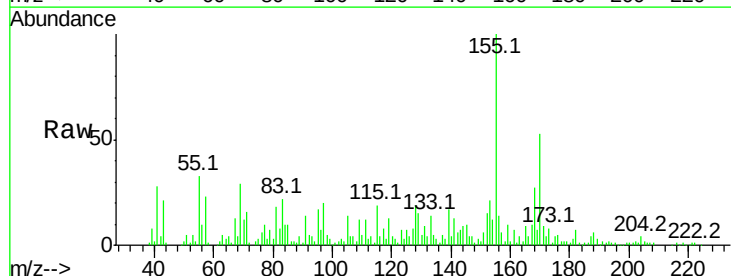


Abundance Ion 184.00 (183.70 to 184.70): E
 Ion 63.00 (62.70 to 63.70): BF0
 Ion 154.00 (153.70 to 154.70): E

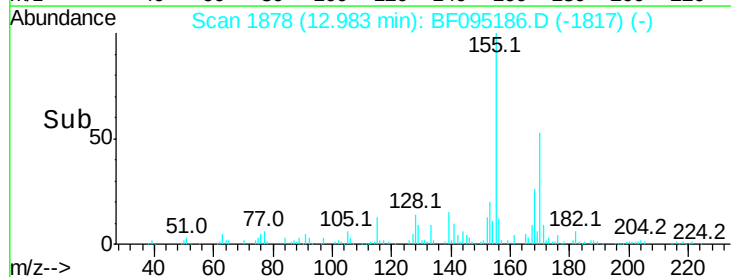
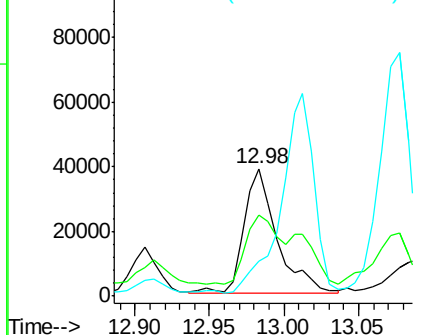


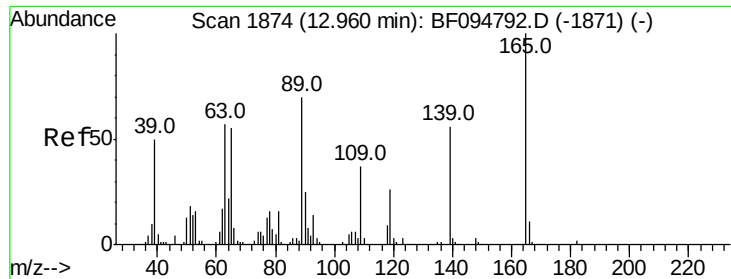
#54
 Dibenzofuran
 Concen: 6.34 ng
 RT: 12.98 min Scan# 1878
 Delta R.T. 0.06 min
 Lab File: BF095186.D
 Acq: 17 May 2017 9:51

Tgt Ion:168 Resp: 58836
 Ion Ratio Lower Upper
 168 100
 139 63.7 30.6 45.8#
 169 27.8 10.8 16.2#



Abundance Ion 168.00 (167.70 to 168.70): E
 Ion 139.00 (138.70 to 139.70): E
 Ion 169.00 (168.70 to 169.70): E

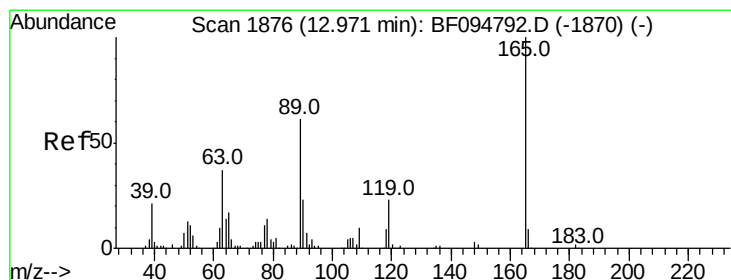
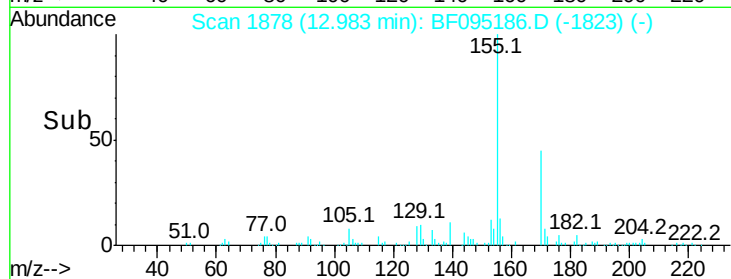
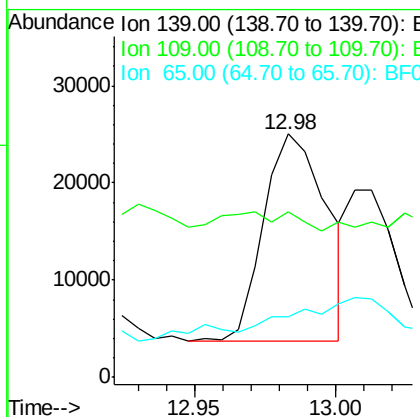
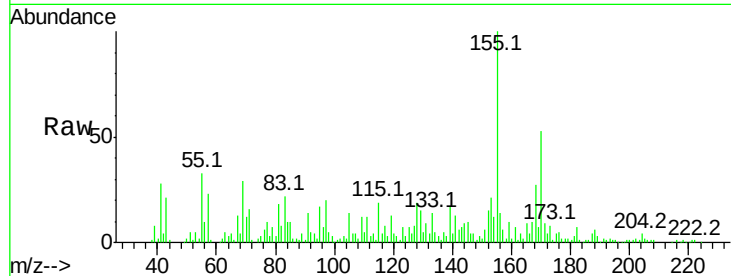




#55
4-Nitrophenol
Concen: 29.32 ng
RT: 12.98 min Scan# 1878
Delta R.T. 0.02 min
Lab File: BF095186.D
Acq: 17 May 2017 9:51

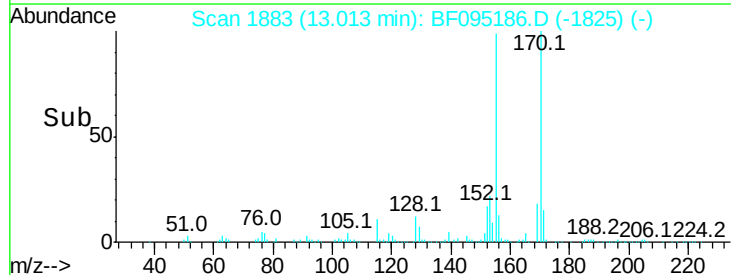
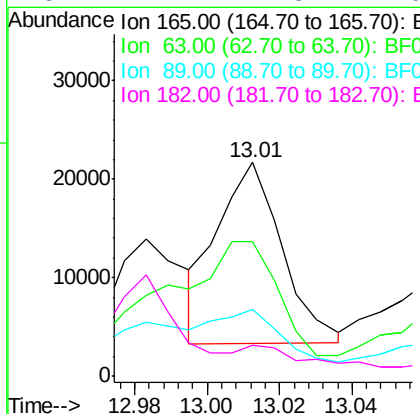
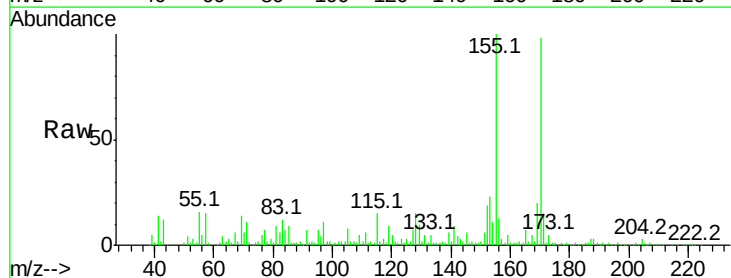
Instrument :
BNA_F
ClientSampled :

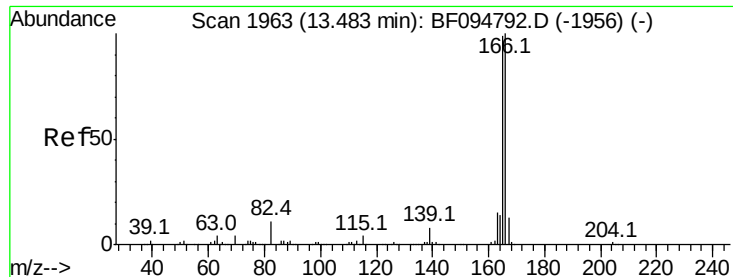
Tot Ion:139 Resp: 33362
Ion Ratio Lower Upper
139 100
109 68.1 34.1 74.1
65 24.8 31.4 71.4#



#56
2,4-Dinitrotoluene
Concen: 10.07 ng
RT: 13.01 min Scan# 1883
Delta R.T. 0.04 min
Lab File: BF095186.D
Acq: 17 May 2017 9:51

Tgt Ion:165 Resp: 22843
Ion Ratio Lower Upper
165 100
63 62.7 25.4 38.0#
89 31.2 46.4 69.6#
182 14.1 1.8 2.6#

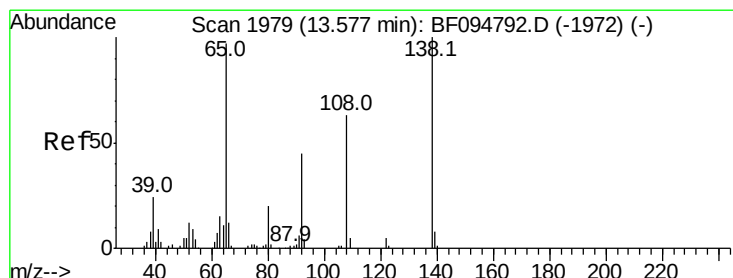
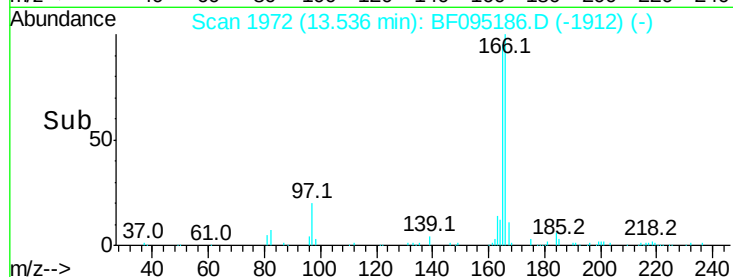
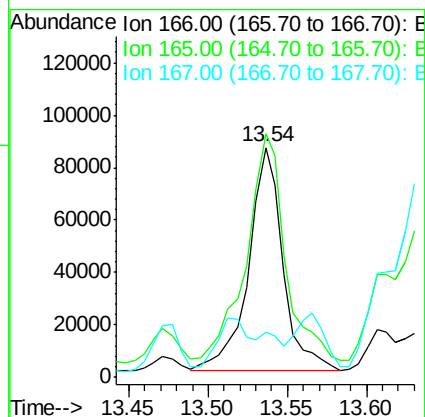
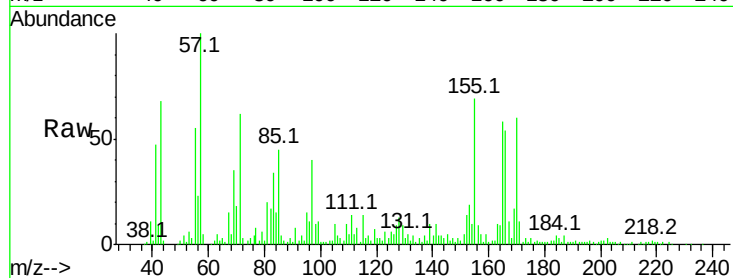




#57
 Fluorene
 Concen: 15.82 ng
 RT: 13.54 min Scan# 1972
 Delta R.T. 0.05 min
 Lab File: BF095186.D
 Acq: 17 May 2017 9:51

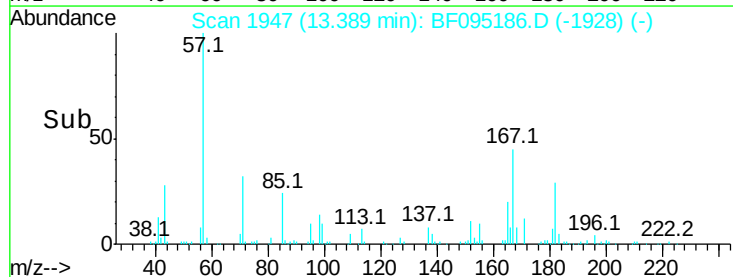
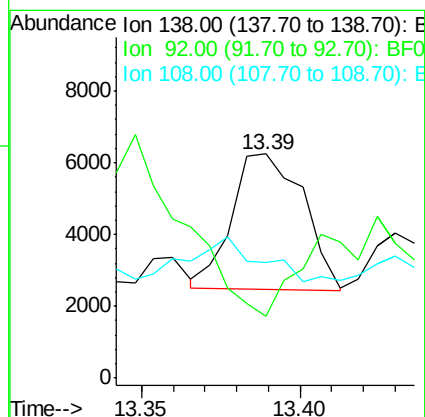
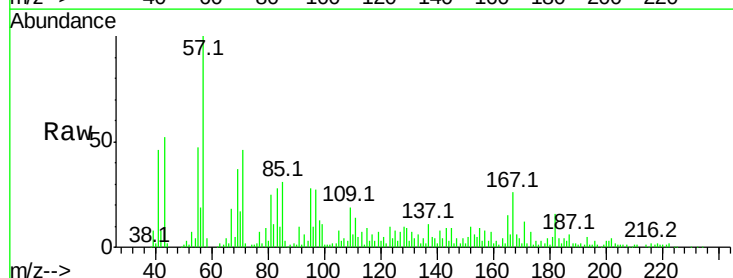
Instrument :
 BNA_F
 ClientSampleId :

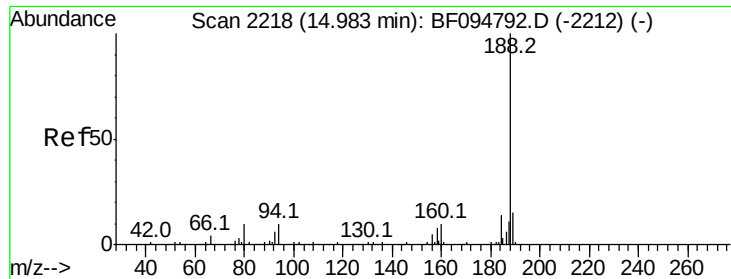
Tot Ion:166 Resp: 127626
 Ion Ratio Lower Upper
 166 100
 165 105.9 78.8 118.2
 167 19.9 10.6 16.0#



#61
 4-Nitroaniline
 Concen: 3.40 ng
 RT: 13.39 min Scan# 1947
 Delta R.T. -0.19 min
 Lab File: BF095186.D
 Acq: 17 May 2017 9:51

Tgt Ion:138 Resp: 5906
 Ion Ratio Lower Upper
 138 100
 92 27.8 21.8 61.8
 108 51.6 42.3 82.3

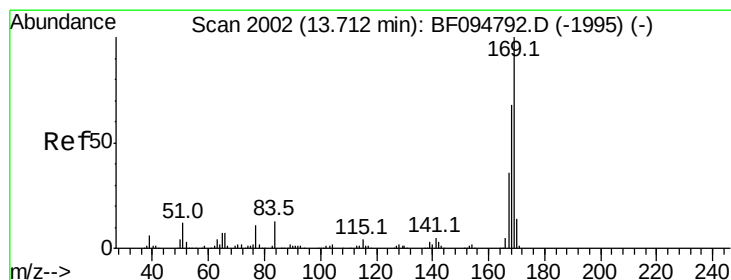
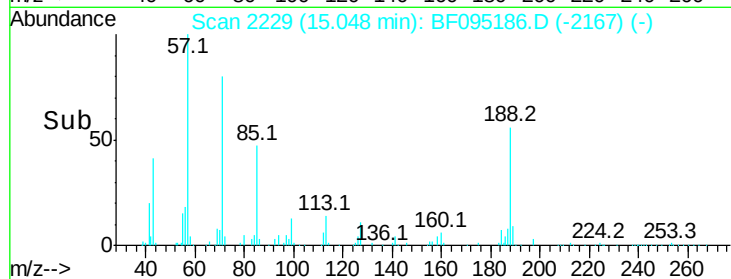
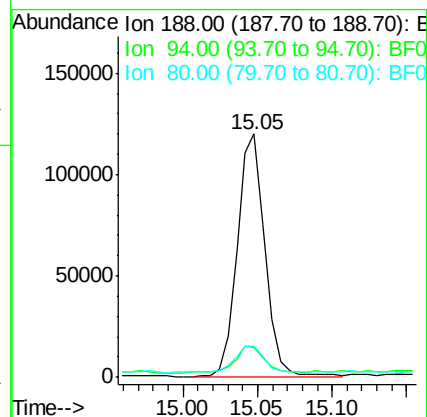
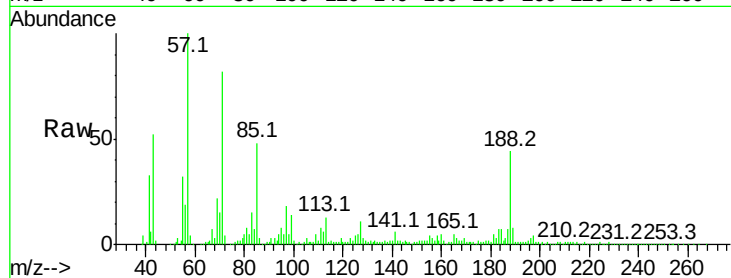




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 15.05 min Scan# 2229
Delta R.T. 0.06 min
Lab File: BF095186.D
Acq: 17 May 2017 9:51

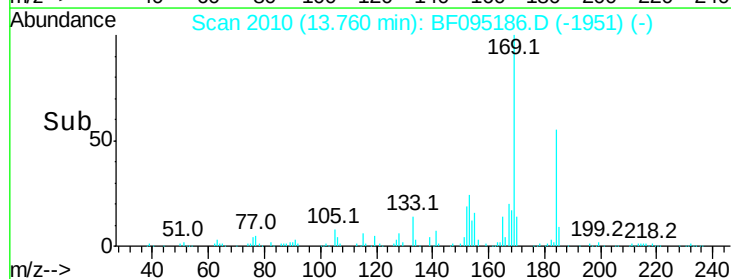
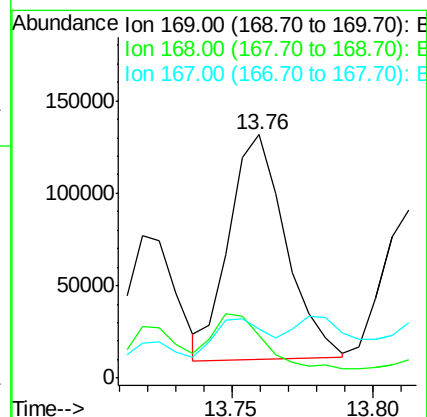
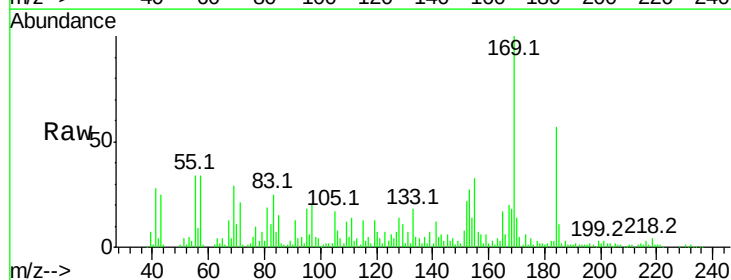
Instrument :
BNA_F
ClientSampleId :

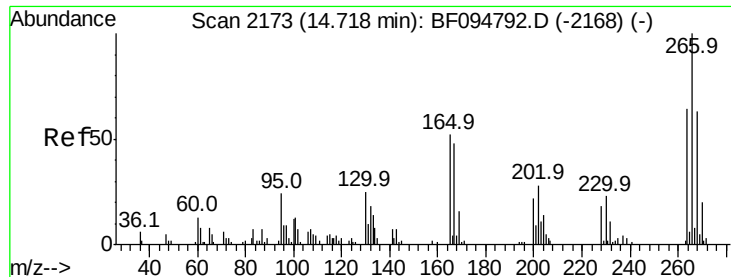
Tot Ion:188 Resp: 153685
Ion Ratio Lower Upper
188 100
94 12.1 9.4 14.2
80 12.5 10.2 15.2



#65
n-Nitrosodiphenylamine
Concen: 30.48 ng
RT: 13.76 min Scan# 2010
Delta R.T. 0.05 min
Lab File: BF095186.D
Acq: 17 May 2017 9:51

Tgt Ion:169 Resp: 169989
Ion Ratio Lower Upper
169 100
168 17.6 53.2 79.8#
167 20.3 29.5 44.3#

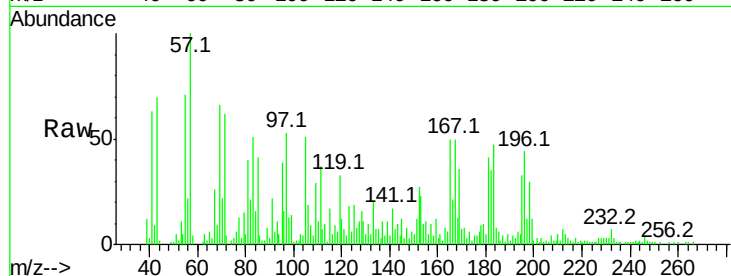




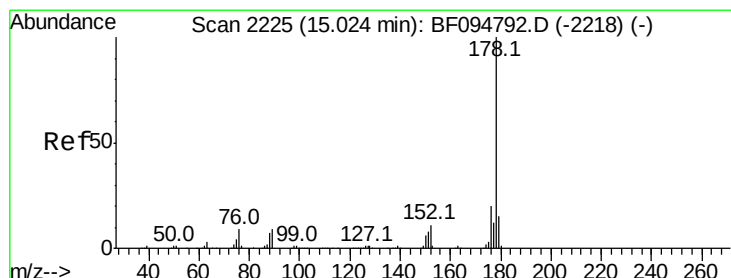
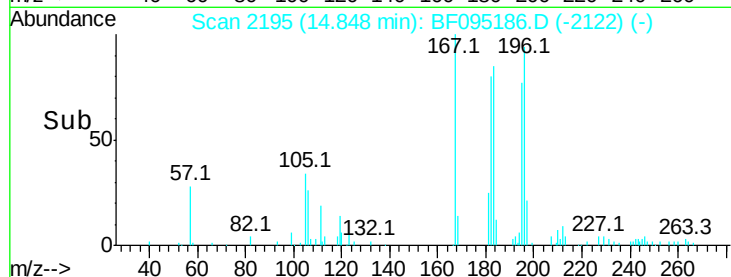
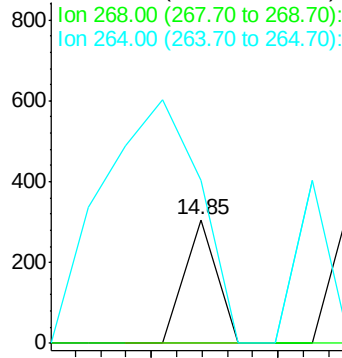
#69
 Pentachlorophenol
 Concen: 6.00 ng
 RT: 14.85 min Scan# 2195
 Delta R.T. 0.13 min
 Lab File: BF095186.D
 Acq: 17 May 2017 9:51

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:266 Resp: 108
 Ion Ratio Lower Upper
 266 100
 268 0.0 51.1 76.7#
 264 131.8 51.7 77.5#

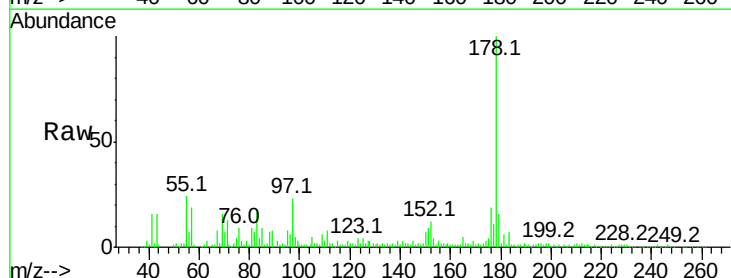


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

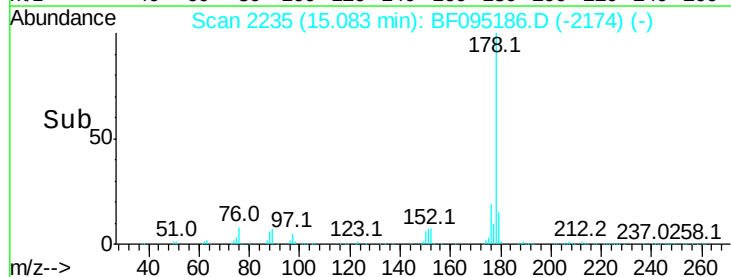
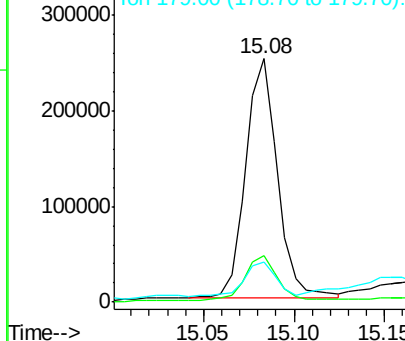


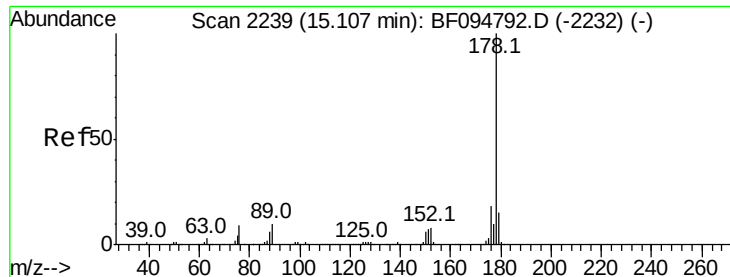
#70
 Phenanthrene
 Concen: 34.77 ng
 RT: 15.08 min Scan# 2235
 Delta R.T. 0.06 min
 Lab File: BF095186.D
 Acq: 17 May 2017 9:51

Tgt Ion:178 Resp: 307015
 Ion Ratio Lower Upper
 178 100
 176 19.1 16.2 24.4
 179 16.4 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

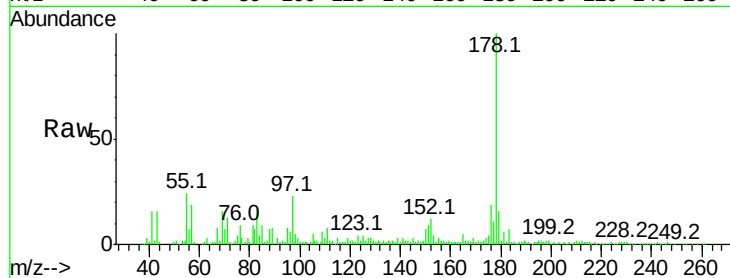




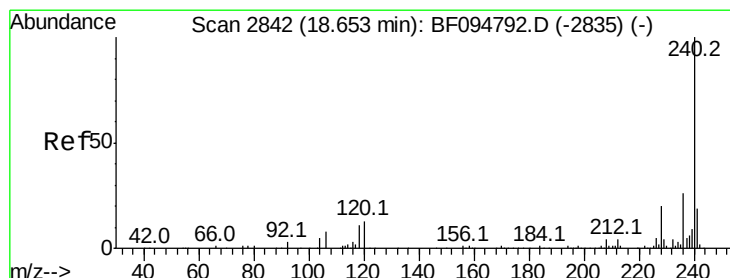
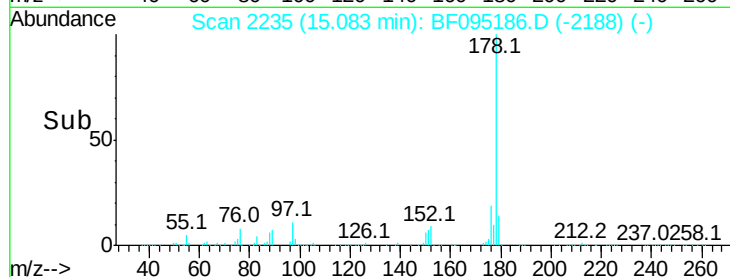
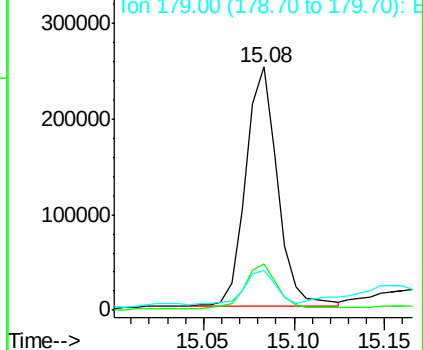
#71
 Anthracene
 Concen: 34.04 ng
 RT: 15.08 min Scan# 2235
 Delta R.T. -0.02 min
 Lab File: BF095186.D
 Acq: 17 May 2017 9:51

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:178 Resp: 307015
 Ion Ratio Lower Upper
 178 100
 176 19.1 15.8 23.8
 179 16.4 12.7 19.1

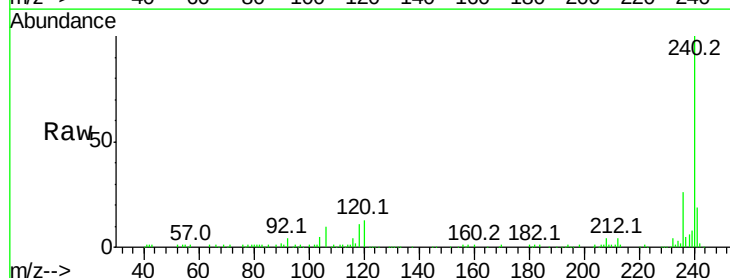


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

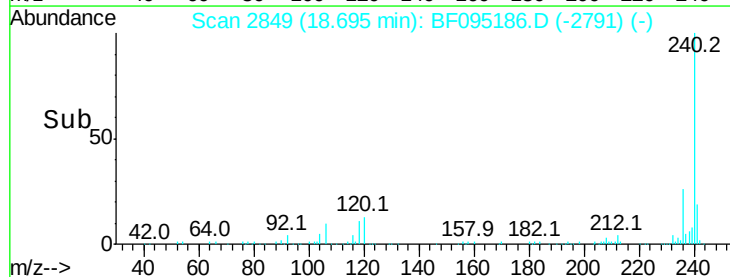
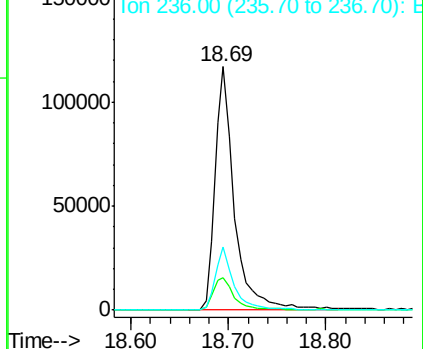


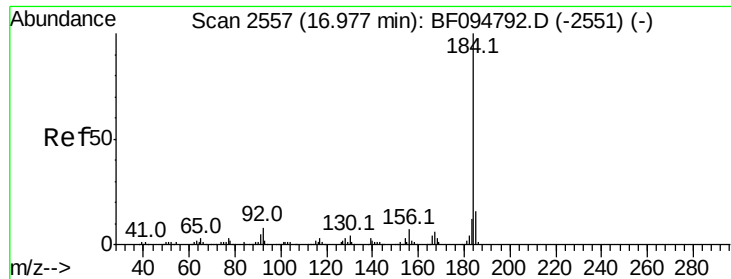
#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 18.69 min Scan# 2849
 Delta R.T. 0.04 min
 Lab File: BF095186.D
 Acq: 17 May 2017 9:51

Tgt Ion:240 Resp: 160521
 Ion Ratio Lower Upper
 240 100
 120 13.5 5.8 8.8#
 236 25.7 20.5 30.7



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





#76

Benzidine

Concen: 6.86 ng

RT: 17.04 min Scan# 2568

Delta R.T. 0.06 min

Lab File: BF095186.D

Acq: 17 May 2017 9:51

Instrument :

BNA_F

ClientSampleId :

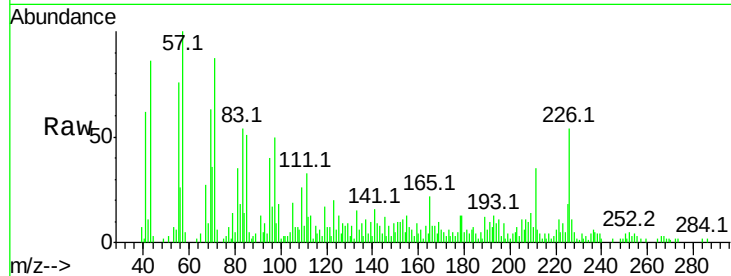
Tot Ion:184 Resp: 1367

Ion Ratio Lower Upper

184 100

185 58.5 15.5 23.3#

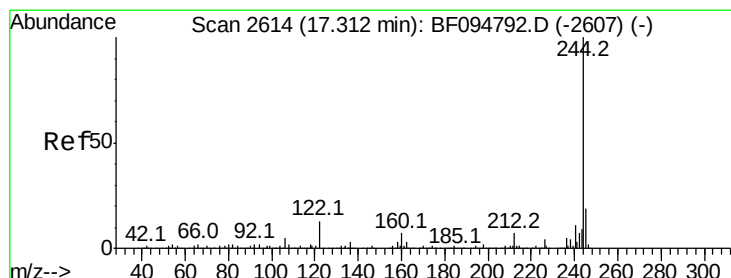
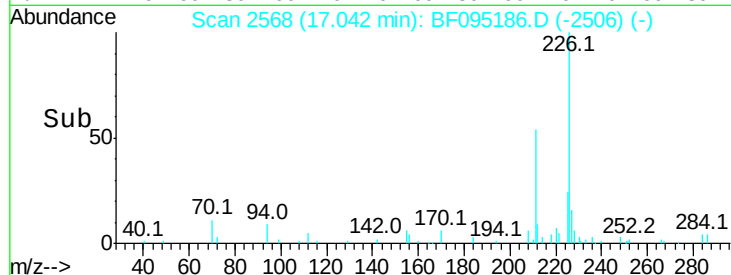
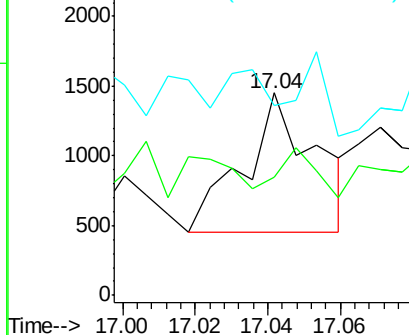
183 93.7 9.8 14.6#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#78

Terphenyl-d14

Concen: 8.03 ng

RT: 17.34 min Scan# 2619

Delta R.T. 0.03 min

Lab File: BF095186.D

Acq: 17 May 2017 9:51

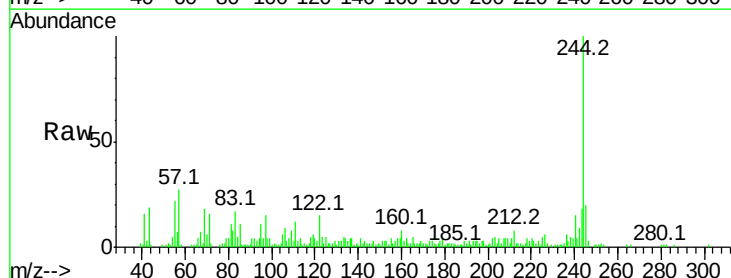
Tgt Ion:244 Resp: 58488

Ion Ratio Lower Upper

244 100

212 7.9 6.0 9.0

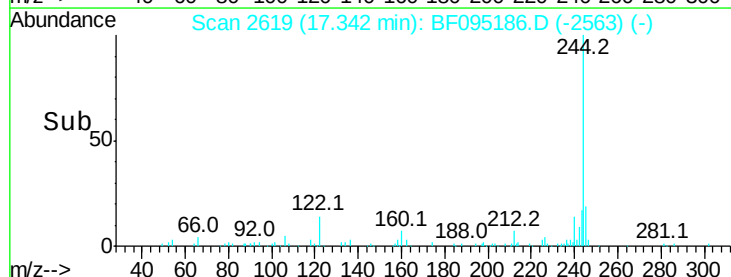
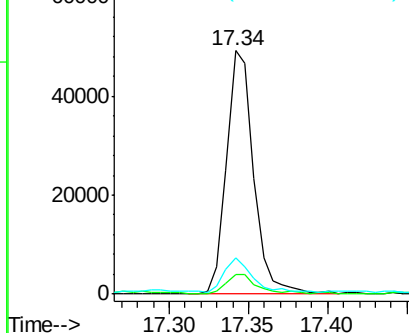
122 15.0 10.3 15.5

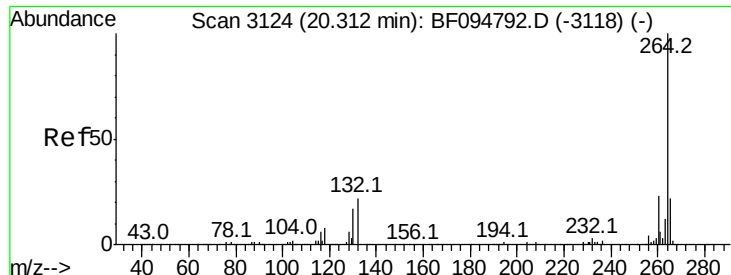


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

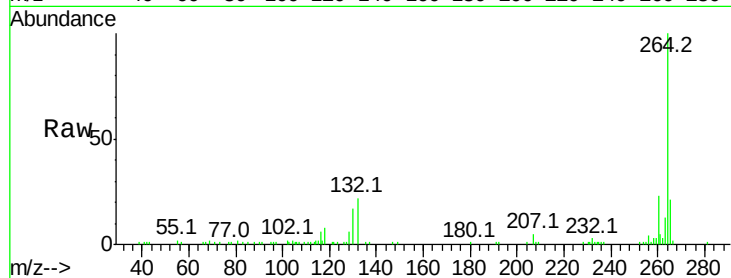




#86
Pervlene-d12
Concen: 20.00 ng
RT: 20.37 min Scan# 3134
Delta R.T. 0.06 min
Lab File: BF095186.D
Acq: 17 May 2017 9:51

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.0	19.5	29.3
265	20.9	17.2	25.8



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

