

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061217\
 Data File : BF095892.D
 Acq On : 13 Jun 2017 2:03
 Operator : SJ/MA
 Sample : I3591-04
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jun 13 05:38:08 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 05 16:15:31 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.35	152	65414	20.00	ng	-0.05
21) Naphthalene-d8	9.38	136	276929	20.00	ng	-0.05
38) Acenaphthene-d10	12.20	164	134531	20.00	ng	-0.05
63) Phenanthrene-d10	14.60	188	232411	20.00	ng	-0.05
75) Chrysene-d12	18.32	240	156901	20.00	ng	-0.04
86) Perylene-d12	19.99	264	123609	20.00	ng	-0.04

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.24	112	470141	114.52	ng	-0.05
7) Phenol-d6	6.91	99	580707	118.16	ng	-0.05
23) Nitrobenzene-d5	8.27	82	338887	76.00	ng	-0.05
41) 2,4,6-Tribromophenol	13.50	330	122454	102.88	ng	-0.05
44) 2-Fluorobiphenyl	11.16	172	472650	48.89	ng	-0.06
78) Terphenyl-d14	16.97	244	347121	54.90	ng	-0.04

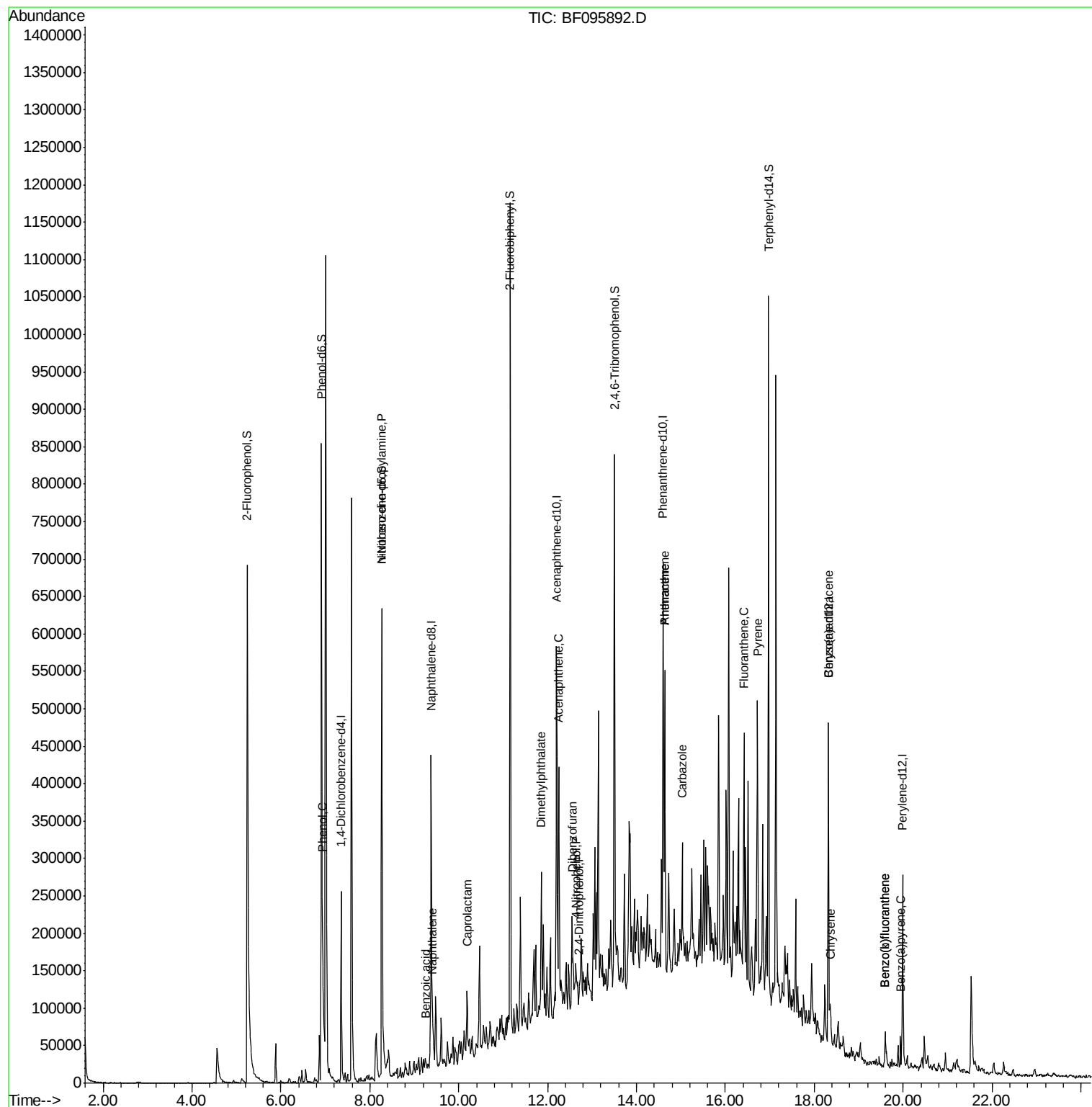
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.93	94	12247	2.40	ng	# 64
19) n-Nitroso-di-n-propylamine	8.27	70	42414	13.62	ng	# 76
31) Naphthalene	9.42	128	35103	2.53	ng	99
32) Benzoic acid	9.27	122	4300	6.70	ng	# 54
35) Caprolactam	10.19	113	3250	2.93	ng	# 68
49) Dimethylphthalate	11.86	163	91176	8.93	ng	98
51) Acenaphthene	12.26	154	44305	5.18	ng	98
53) 2,4-Dinitrophenol	12.70	184	121	6.56	ng	# 4
54) Dibenzofuran	12.55	168	62705	5.21	ng	98
55) 4-Nitrophenol	12.64	139	822	5.14	ng	# 1
70) Phenanthrene	14.63	178	220852	16.47	ng	99
71) Anthracene	14.63	178	220852	15.78	ng	99
72) Carbazole	15.03	167	104489	7.66	ng	99
74) Fluoranthene	16.42	202	175056	13.19	ng	98
77) Pyrene	16.72	202	144862	12.37	ng	# 95
80) Benzo(a)anthracene	18.31	228	29707	3.26	ng	97
82) Chrysene	18.36	228	31153	3.42	ng	97
87) Benzo(b)fluoranthene	19.60	252	25012	3.23	ng	# 94
88) Benzo(k)fluoranthene	19.60	252	25012	3.38	ng	95
89) Benzo(a)pyrene	19.94	252	15981	2.25	ng	# 91

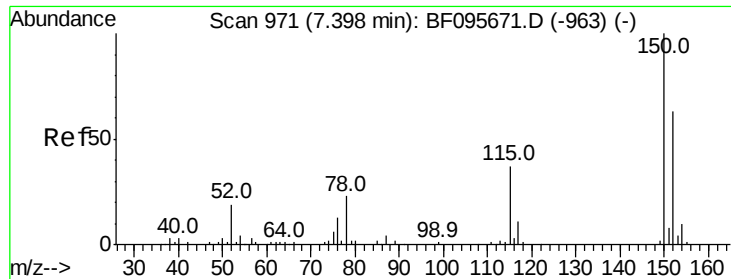
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.35 min Scan# 980

Delta R.T. -0.05 min

Lab File: BF095892.D

Acq: 13 Jun 2017 2:03

Instrument :

BNA_F

ClientSampled :

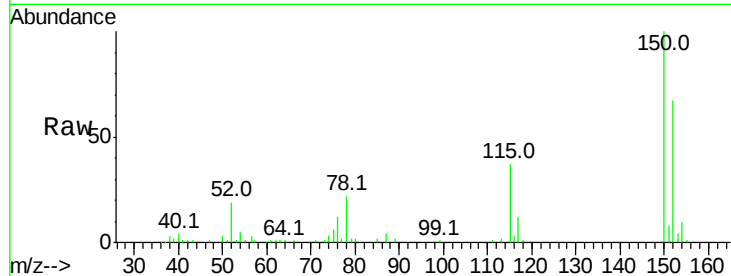
Tot Ion:152 Resp: 65414

Ion Ratio Lower Upper

152 100

150 149.2 126.2 189.2

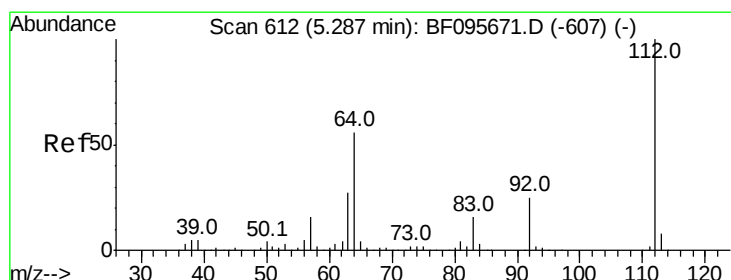
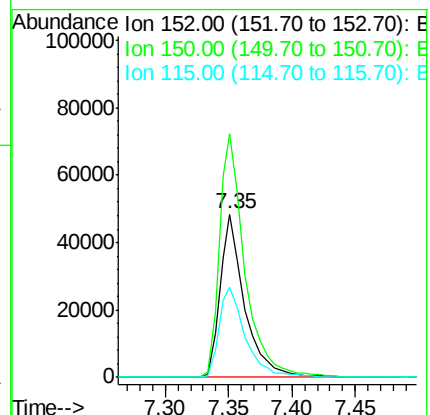
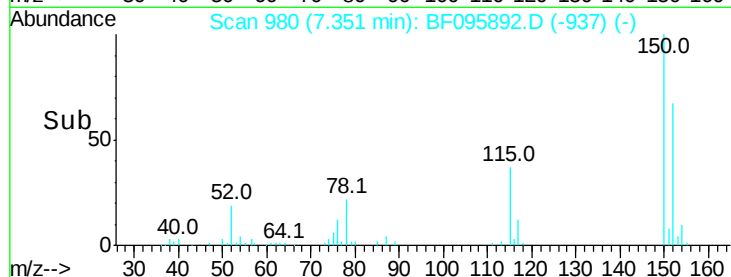
115 55.6 52.2 78.2



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: 114.52 ng

RT: 5.24 min Scan# 621

Delta R.T. -0.05 min

Lab File: BF095892.D

Acq: 13 Jun 2017 2:03

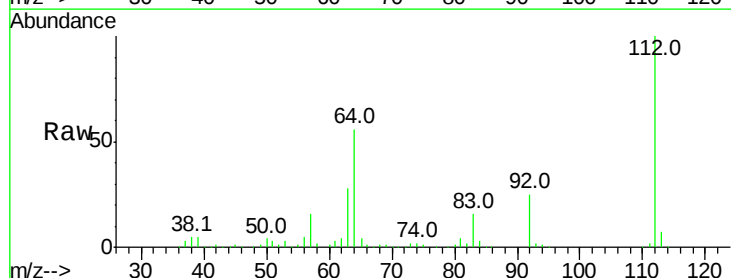
Tgt Ion:112 Resp: 470141

Ion Ratio Lower Upper

112 100

64 55.7 46.0 69.0

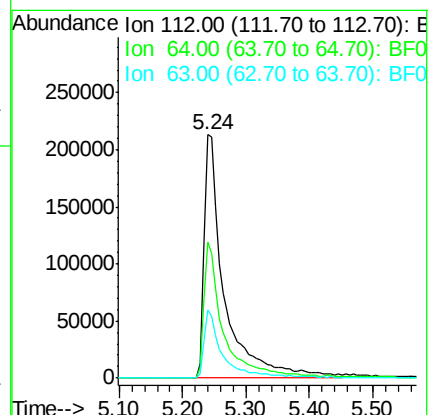
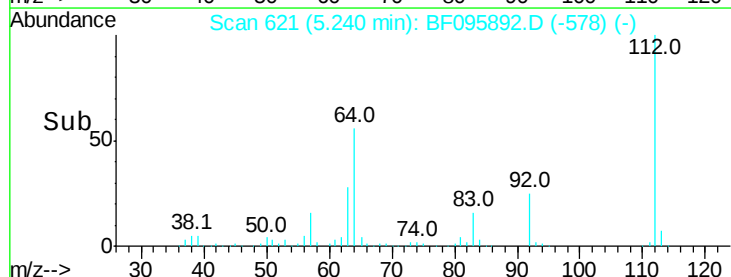
63 27.9 23.4 35.0

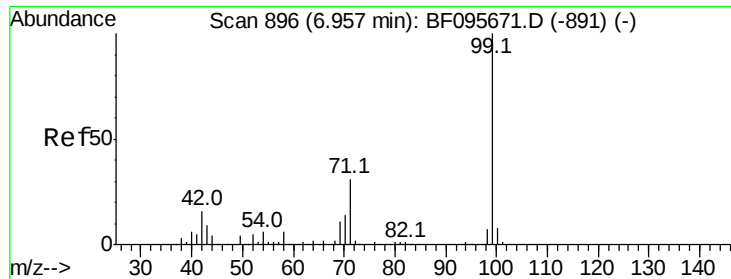


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 118.16 ng

RT: 6.91 min Scan# 905

Delta R.T. -0.05 min

Lab File: BF095892.D

Acq: 13 Jun 2017 2:03

Instrument :

BNA_F

ClientSampleId :

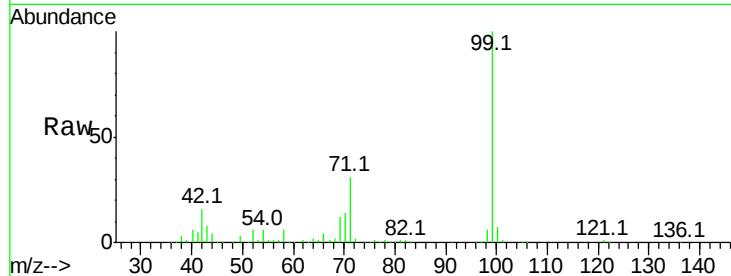
Tot Ion: 99 Resp: 580707

Ion Ratio Lower Upper

99 100

42 15.8 13.5 20.3

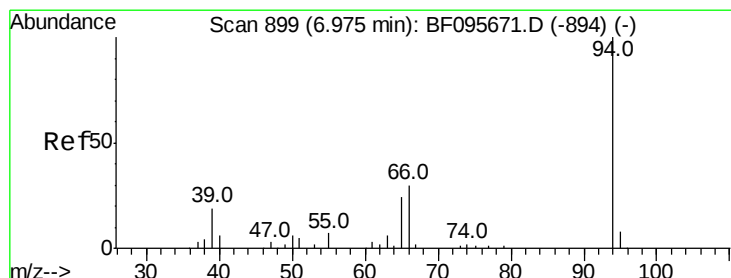
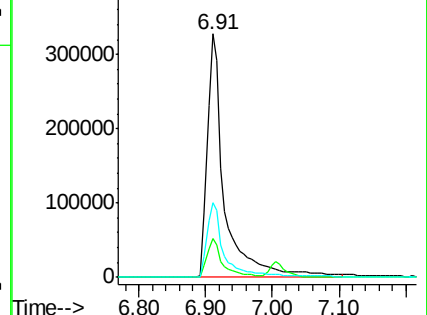
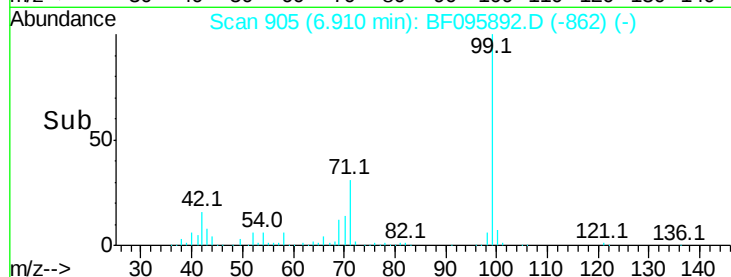
71 30.6 24.5 36.7



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



#10

Phenol

Concen: 2.40 ng

RT: 6.93 min Scan# 909

Delta R.T. -0.04 min

Lab File: BF095892.D

Acq: 13 Jun 2017 2:03

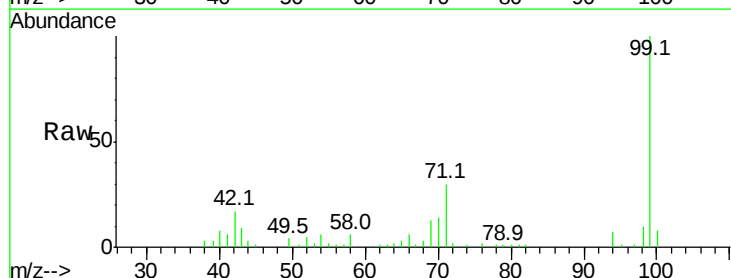
Tgt Ion: 94 Resp: 12247

Ion Ratio Lower Upper

94 100

65 34.3 9.9 49.9

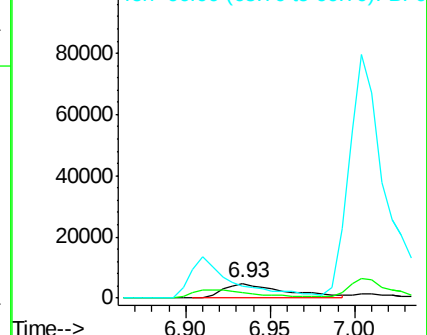
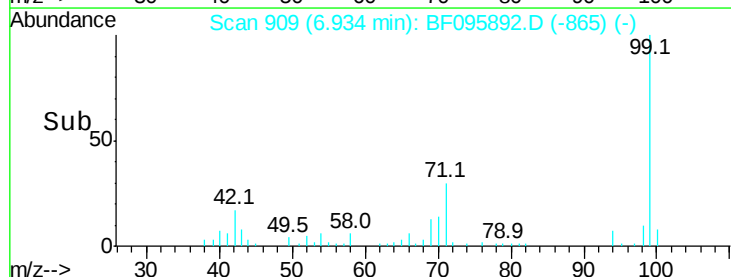
66 78.3 23.1 63.1#

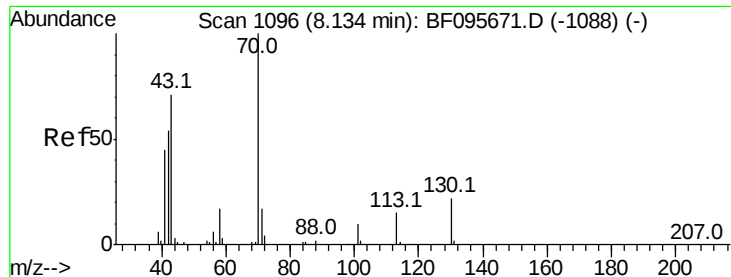


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





#19

n-Nitroso-di-n-propylamine

Concen: 13.62 ng

RT: 8.27 min Scan# 1136

Delta R.T. 0.14 min

Lab File: BF095892.D

Acq: 13 Jun 2017 2:03

Instrument :

BNA_F

ClientSampled :

Tot Ion: 70 Resp: 42414

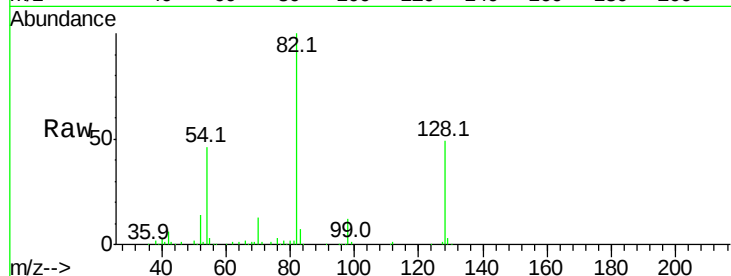
Ion Ratio Lower Upper

70 100

42 44.6 47.2 70.8#

101 0.0 7.2 10.8#

130 2.0 15.9 23.9#

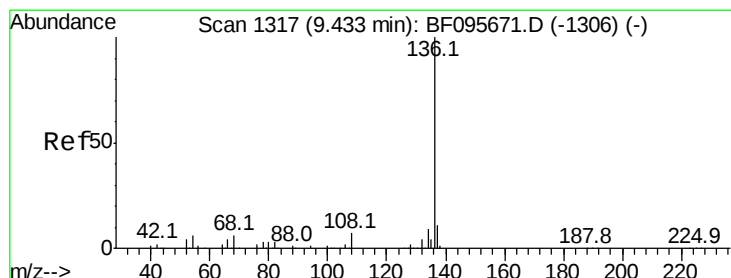
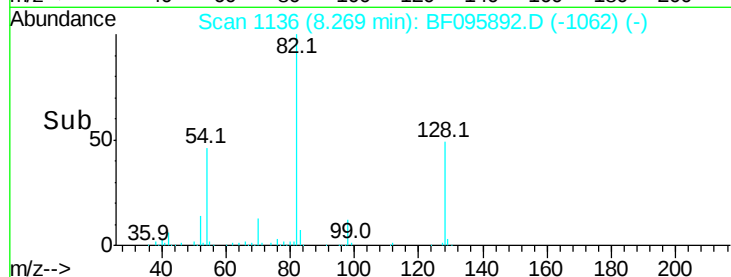
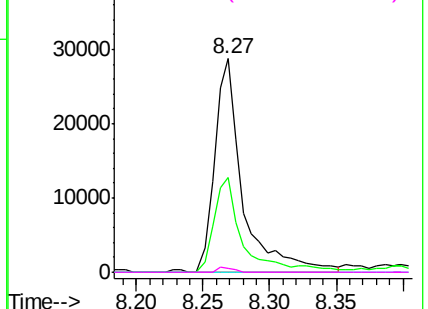


Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.38 min Scan# 1325

Delta R.T. -0.05 min

Lab File: BF095892.D

Acq: 13 Jun 2017 2:03

Tgt Ion: 136 Resp: 276929

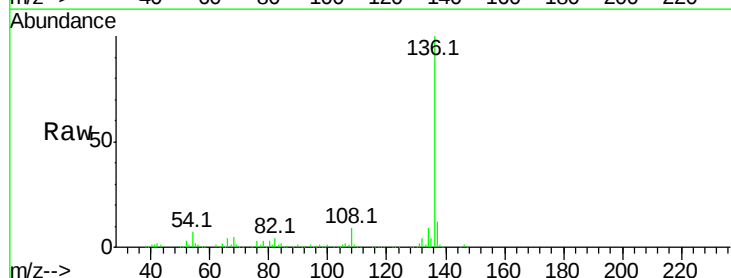
Ion Ratio Lower Upper

136 100

137 11.6 8.5 12.7

54 6.9 4.9 7.3

68 5.4 4.1 6.1

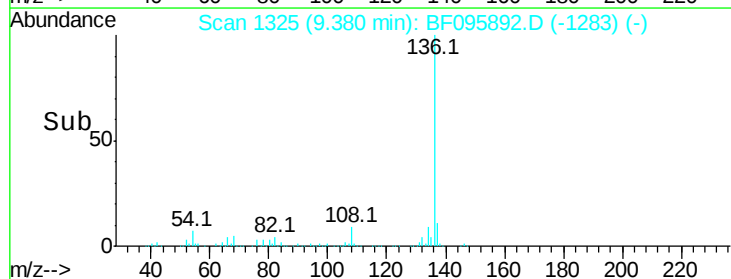
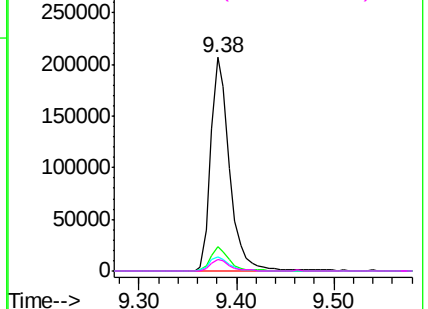


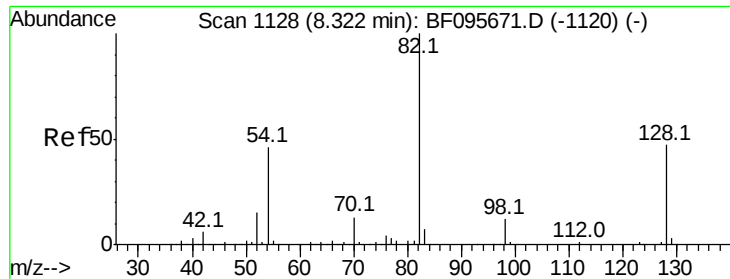
Abundance Ion 136.00 (135.70 to 136.70): BF0

Ion 137.00 (136.70 to 137.70): BF0

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

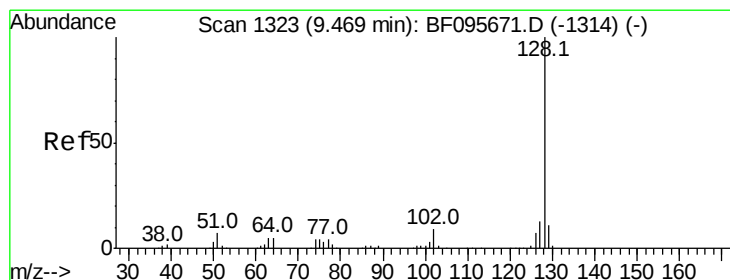
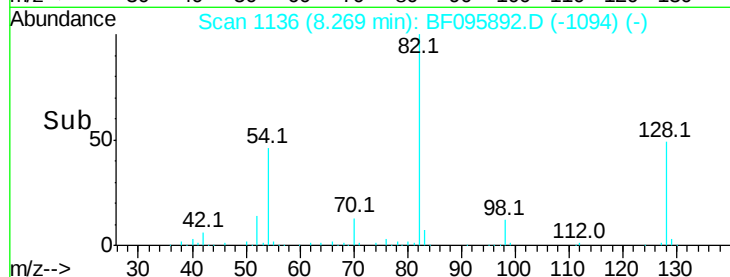
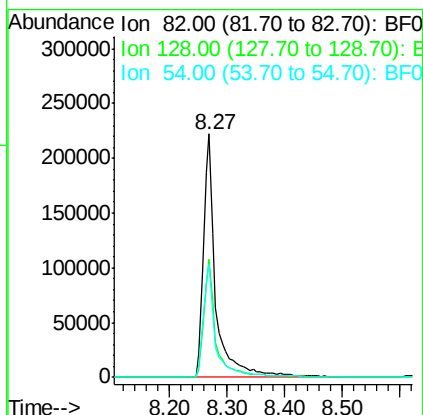
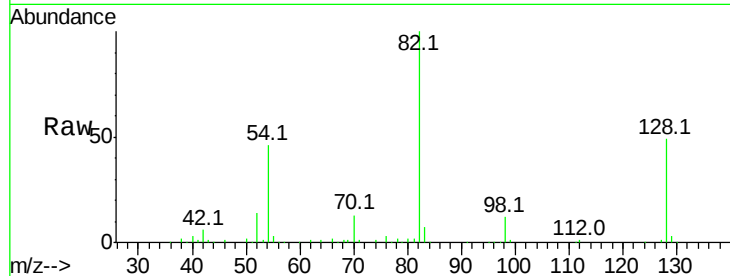




#23
 Nitrobenzene-d5
 Concen: 76.00 ng
 RT: 8.27 min Scan# 1136
 Delta R.T. -0.05 min
 Lab File: BF095892.D
 Acq: 13 Jun 2017 2:03

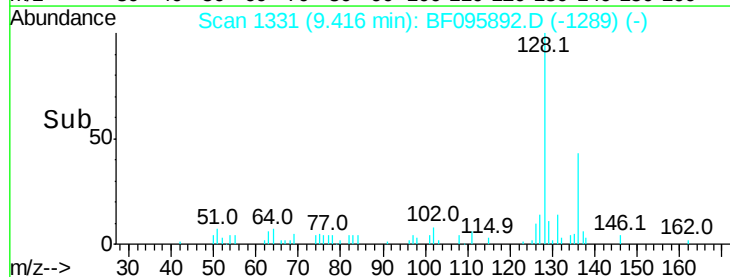
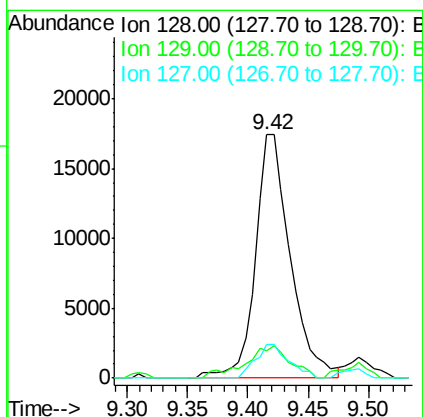
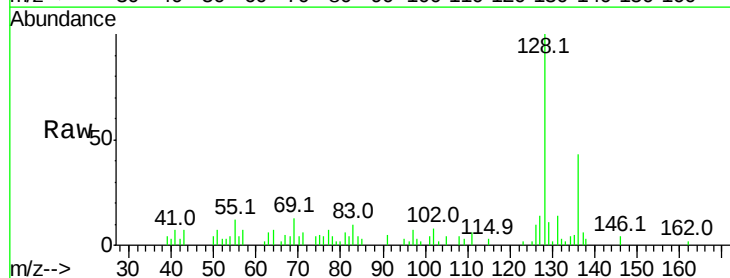
Instrument :
 BNA_F
 ClientSampleId :

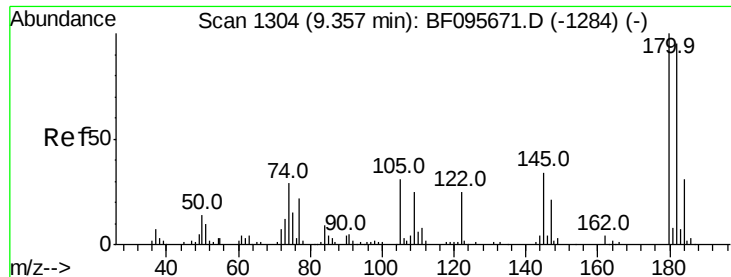
Tot Ion	82	Resp	338887
Ion Ratio	Lower	Upper	
82	100		
128	48.7	34.0	51.0
54	46.4	42.2	63.2



#31
 Naphthalene
 Concen: 2.53 ng
 RT: 9.42 min Scan# 1331
 Delta R.T. -0.05 min
 Lab File: BF095892.D
 Acq: 13 Jun 2017 2:03

Tgt Ion	128	Resp	35103
Ion Ratio	Lower	Upper	
128	100		
129	11.5	9.0	13.6
127	13.9	10.8	16.2

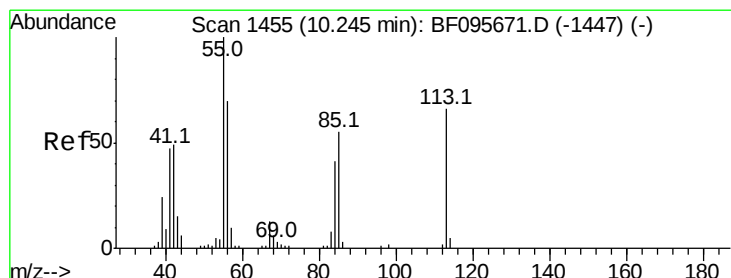
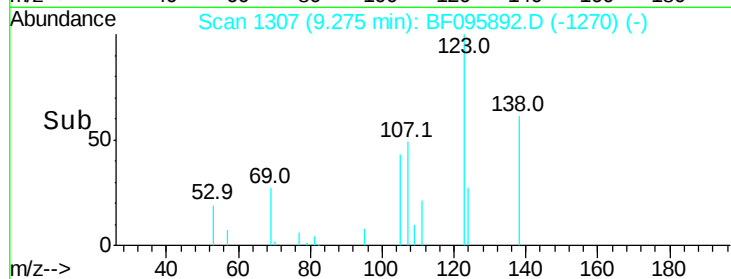
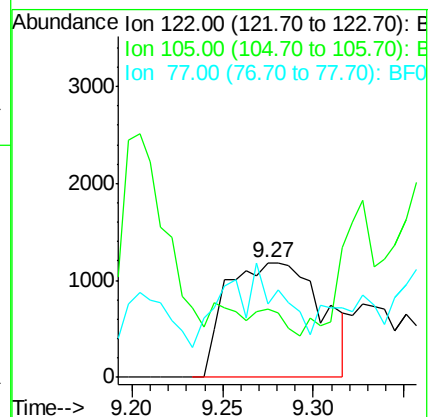
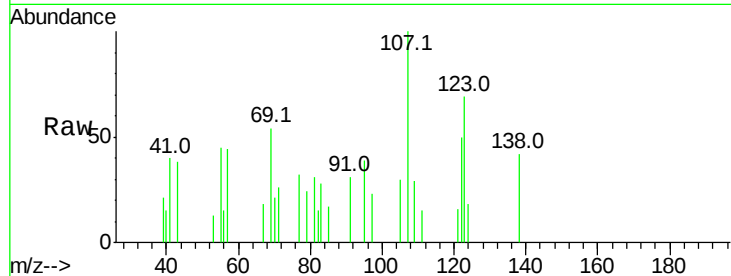




#32
Benzoic acid
Concen: 6.70 ng
RT: 9.27 min Scan# 1307
Delta R.T. -0.08 min
Lab File: BF095892.D
Acq: 13 Jun 2017 2:03

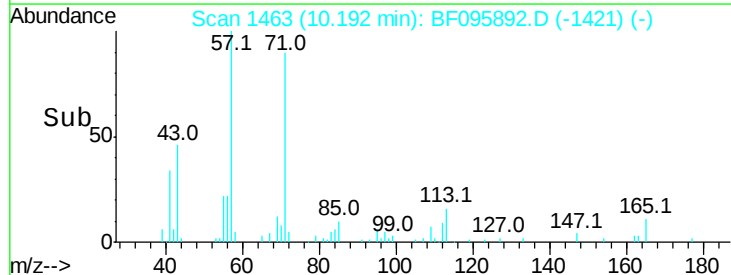
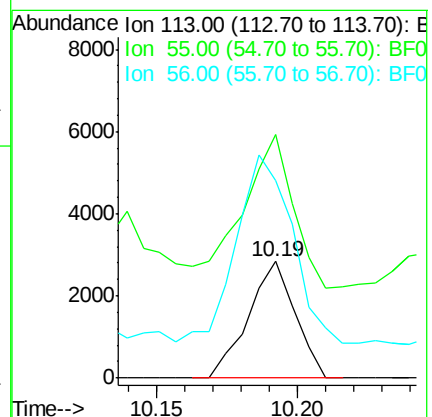
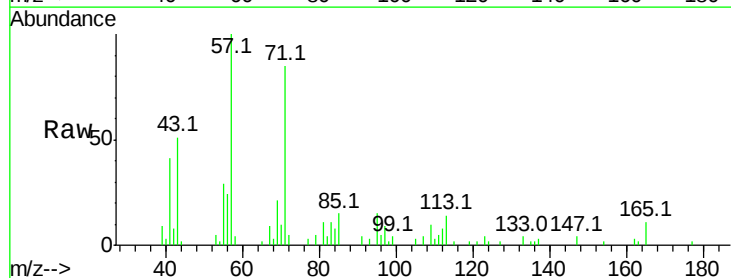
Instrument :
BNA_F
ClientSampleId :

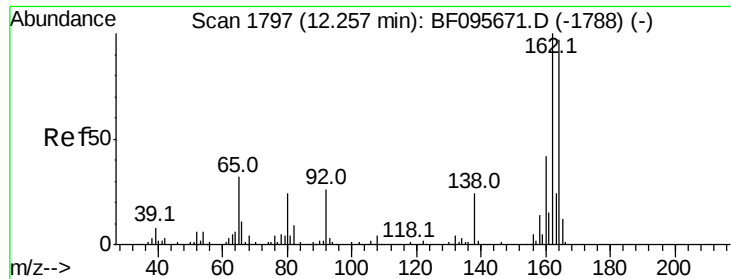
Tot Ion:122 Resp: 4300
Ion Ratio Lower Upper
122 100
105 59.1 103.3 143.3#
77 64.2 73.7 113.7#



#35
Caprolactam
Concen: 2.93 ng
RT: 10.19 min Scan# 1463
Delta R.T. -0.05 min
Lab File: BF095892.D
Acq: 13 Jun 2017 2:03

Tgt Ion:113 Resp: 3250
Ion Ratio Lower Upper
113 100
55 208.9 150.2 190.2#
56 169.5 107.8 147.8#





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 12.20 min Scan# 1805

Delta R.T. -0.05 min

Lab File: BF095892.D

Acq: 13 Jun 2017 2:03

Instrument :

BNA_F

ClientSampleId :

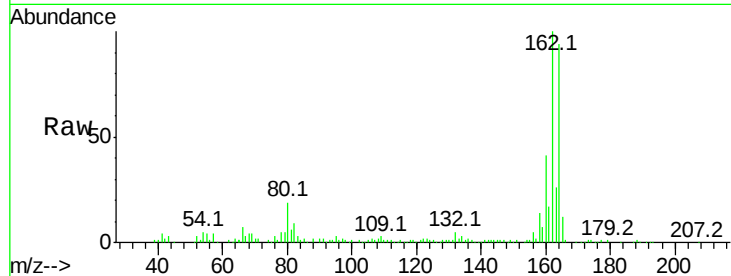
Tot Ion:164 Resp: 134531

Ion Ratio Lower Upper

164 100

162 106.9 82.6 123.8

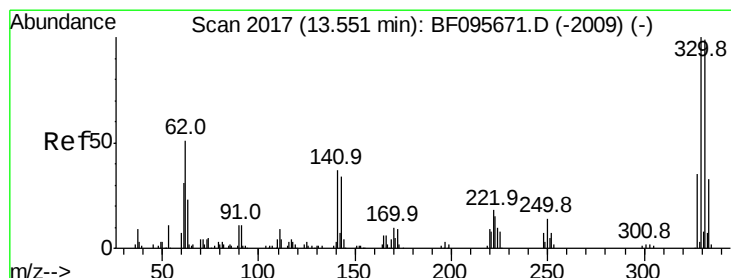
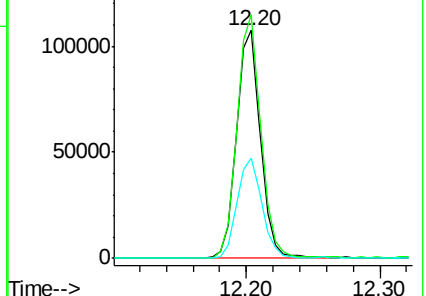
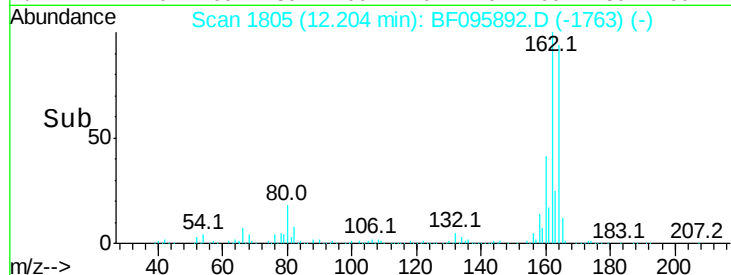
160 43.7 36.2 54.2



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: 102.88 ng

RT: 13.50 min Scan# 2026

Delta R.T. -0.05 min

Lab File: BF095892.D

Acq: 13 Jun 2017 2:03

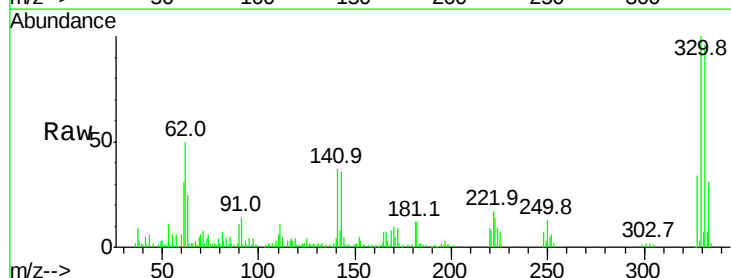
Tgt Ion:330 Resp: 122454

Ion Ratio Lower Upper

330 100

332 95.5 76.6 115.0

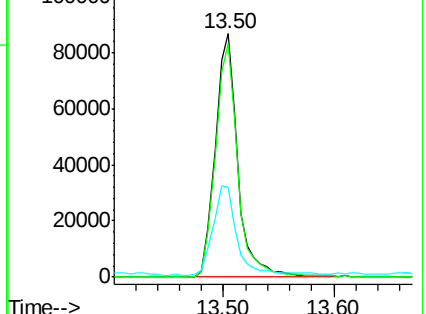
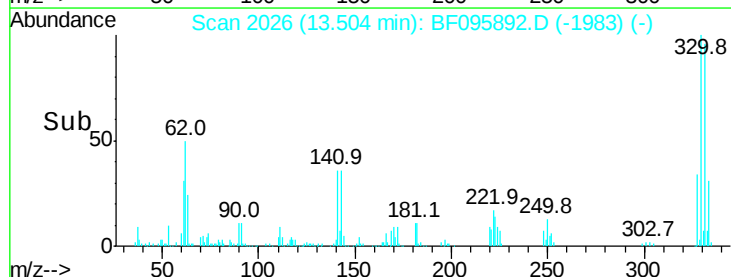
141 39.1 31.4 47.2

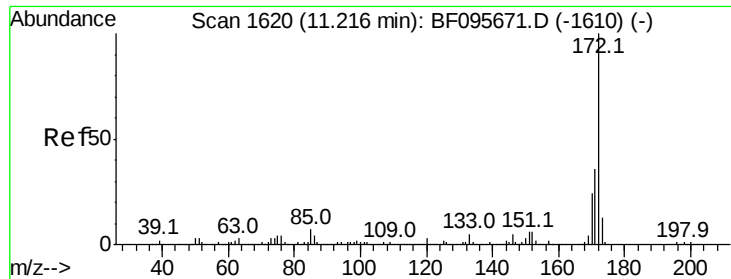


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

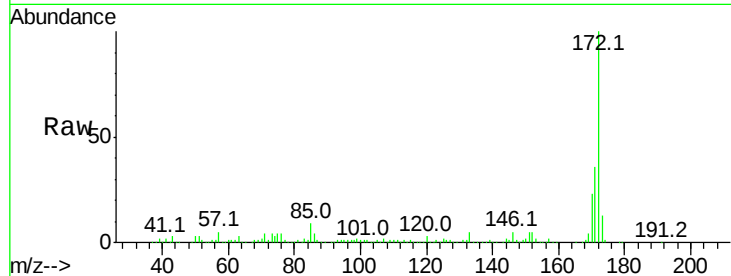




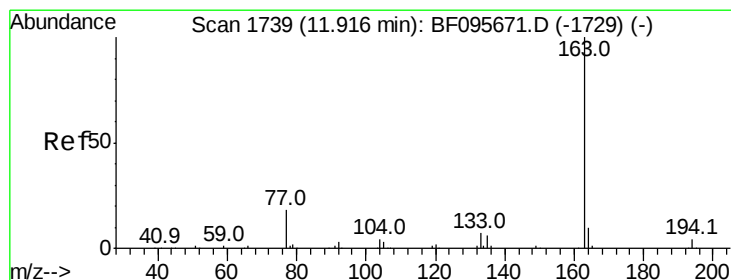
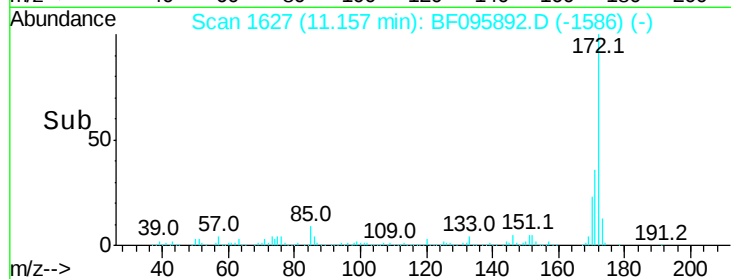
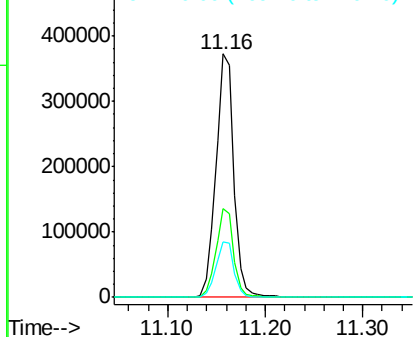
#44
2-Fluorobiphenyl
Concen: 48.89 ng
RT: 11.16 min Scan# 1627
Delta R.T. -0.06 min
Lab File: BF095892.D
Acq: 13 Jun 2017 2:03

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.6	44.4
170	23.0	19.8	29.8

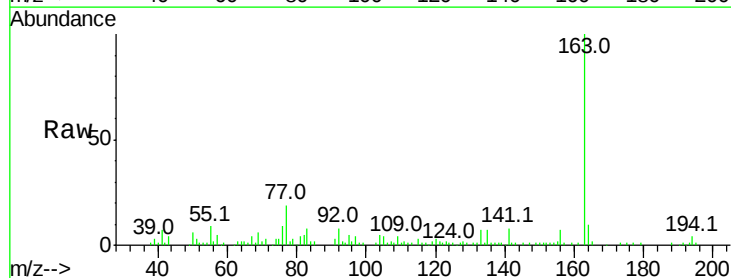


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

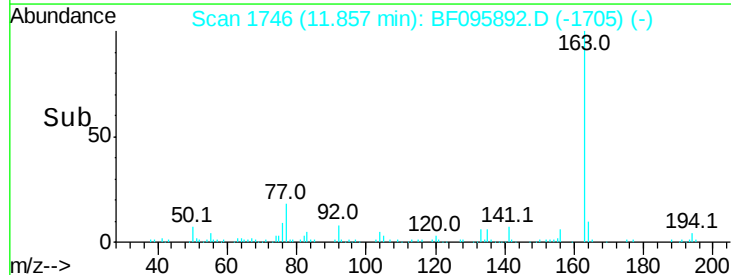
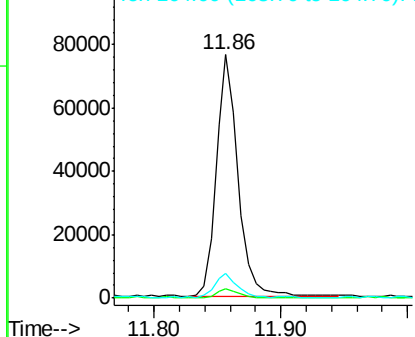


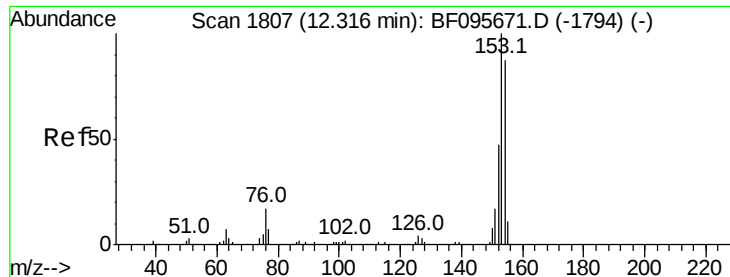
#49
Dimethylphthalate
Concen: 8.93 ng
RT: 11.86 min Scan# 1746
Delta R.T. -0.06 min
Lab File: BF095892.D
Acq: 13 Jun 2017 2:03

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.9	2.6	4.0
164	10.0	8.4	12.6



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 5.18 ng

RT: 12.26 min Scan# 1814

Delta R.T. -0.06 min

Lab File: BF095892.D

Acq: 13 Jun 2017 2:03

Instrument :

BNA_F

ClientSampleId :

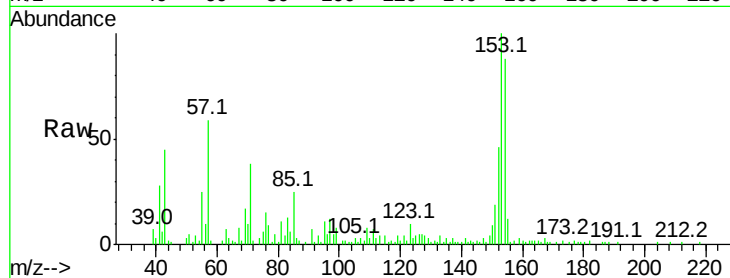
Tot Ion:154 Resp: 44305

Ion Ratio Lower Upper

154 100

153 113.8 90.5 135.7

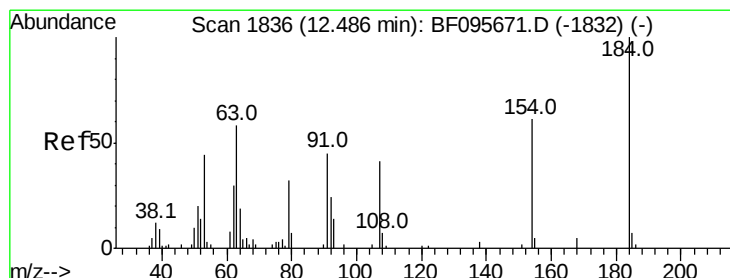
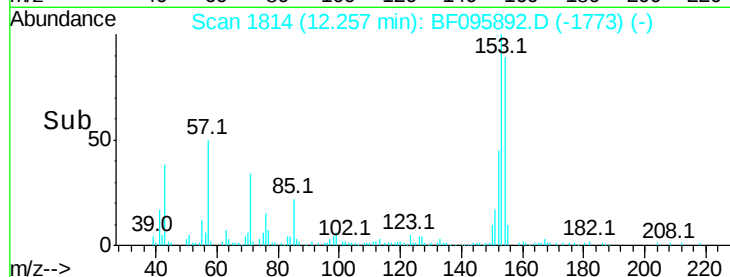
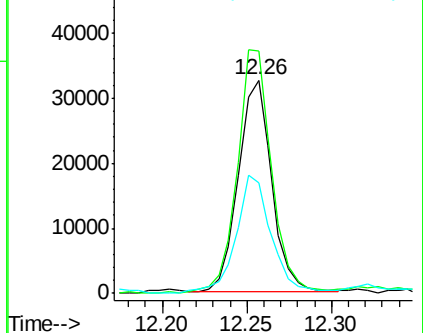
152 51.8 43.6 65.4



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



#53

2,4-Dinitrophenol

Concen: 6.56 ng

RT: 12.70 min Scan# 1889

Delta R.T. 0.21 min

Lab File: BF095892.D

Acq: 13 Jun 2017 2:03

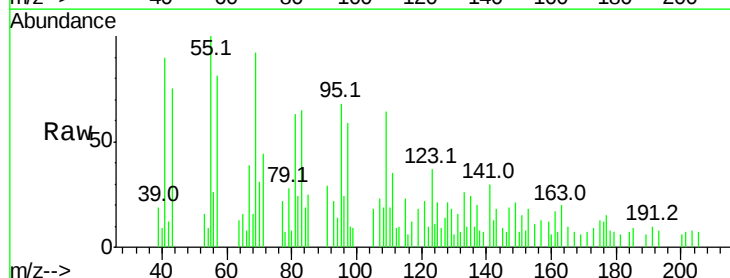
Tgt Ion:184 Resp: 121

Ion Ratio Lower Upper

184 100

63 0.0 62.7 94.1#

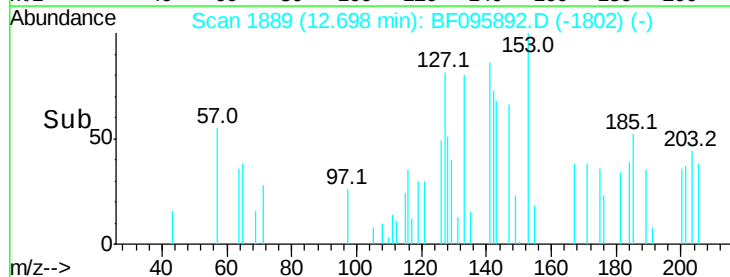
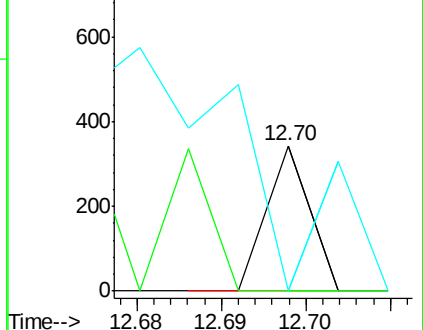
154 0.0 81.1 121.7#

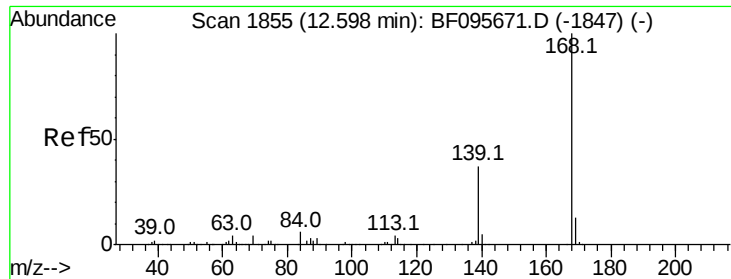


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 154.00 (153.70 to 154.70): E





#54

Dibenzofuran

Concen: 5.21 ng

RT: 12.55 min Scan# 1864

Delta R.T. -0.05 min

Lab File: BF095892.D

Acq: 13 Jun 2017 2:03

Instrument :

BNA_F

ClientSampleId :

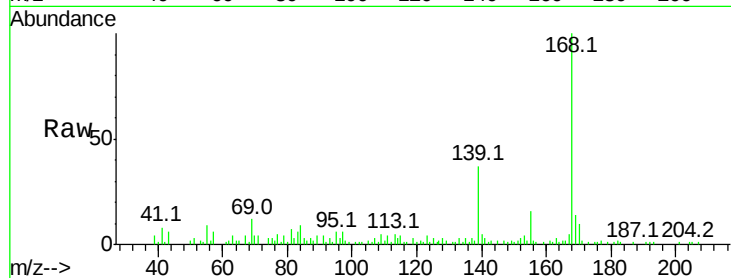
Tot Ion:168 Resp: 62705

Ion Ratio Lower Upper

168 100

139 36.6 30.6 45.8

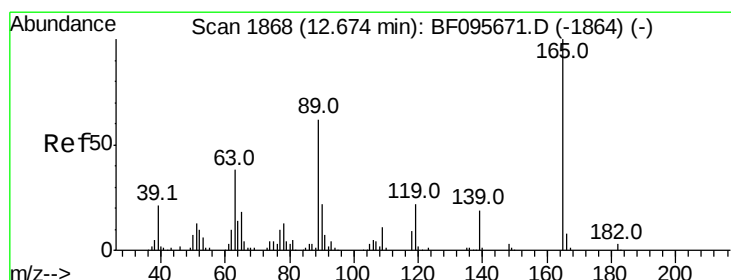
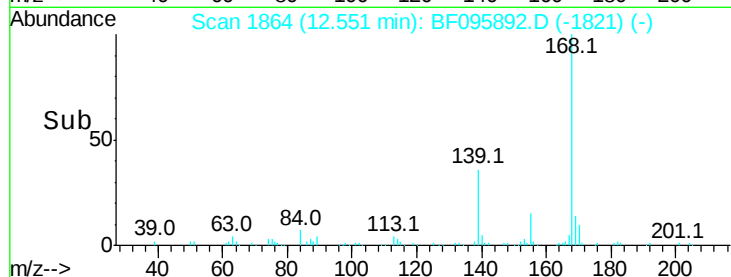
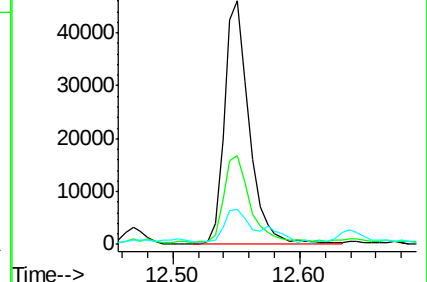
169 14.1 10.8 16.2



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: 5.14 ng

RT: 12.64 min Scan# 1879

Delta R.T. -0.03 min

Lab File: BF095892.D

Acq: 13 Jun 2017 2:03

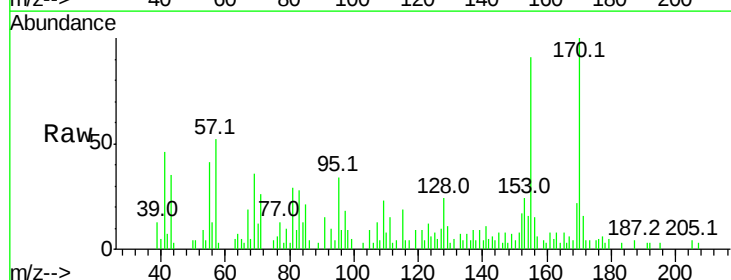
Tgt Ion:139 Resp: 822

Ion Ratio Lower Upper

139 100

109 245.0 34.1 74.1#

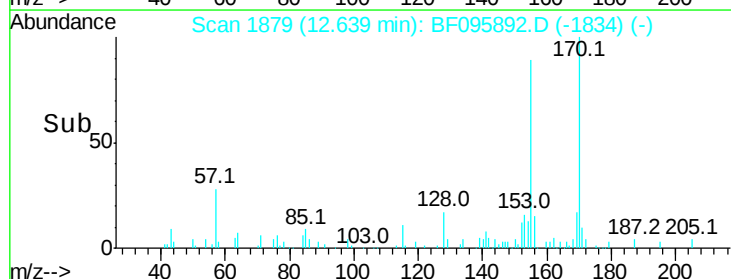
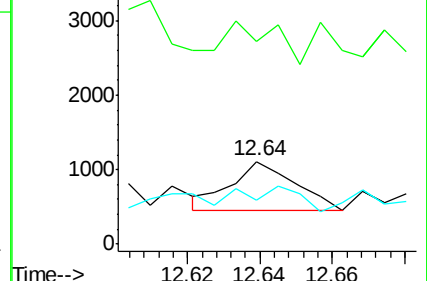
65 53.4 31.4 71.4

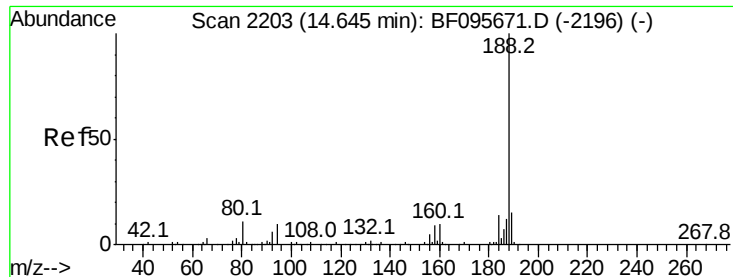


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0

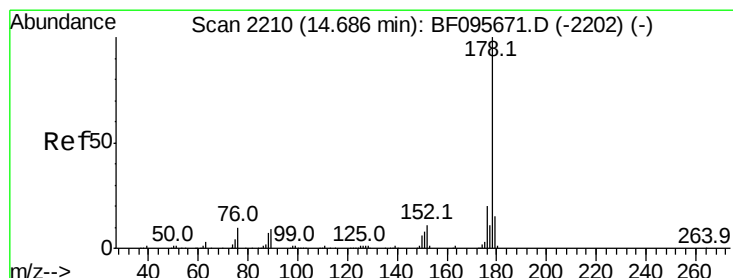
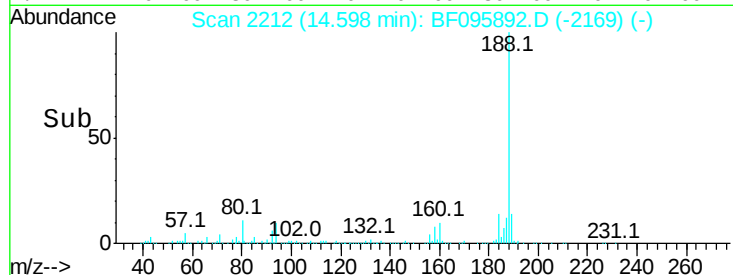
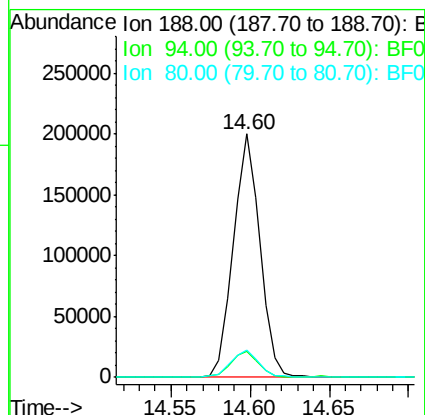
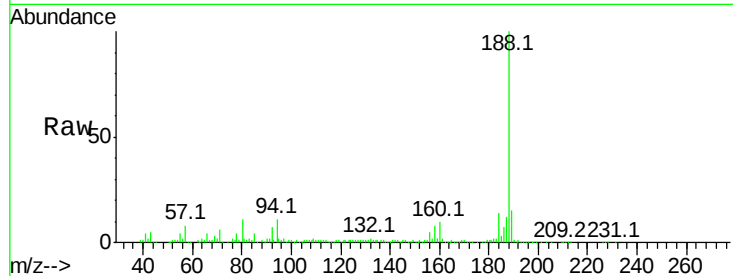




#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 14.60 min Scan# 2212
 Delta R.T. -0.05 min
 Lab File: BF095892.D
 Acq: 13 Jun 2017 2:03

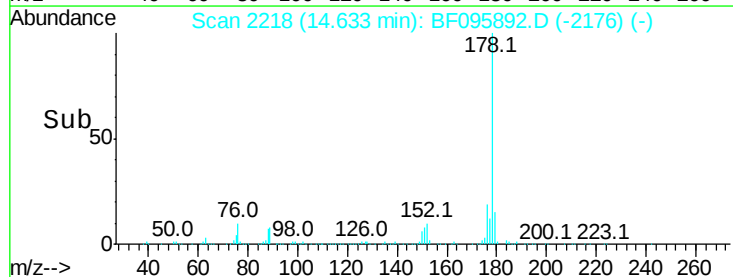
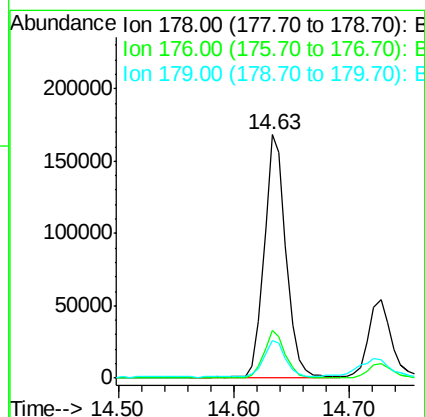
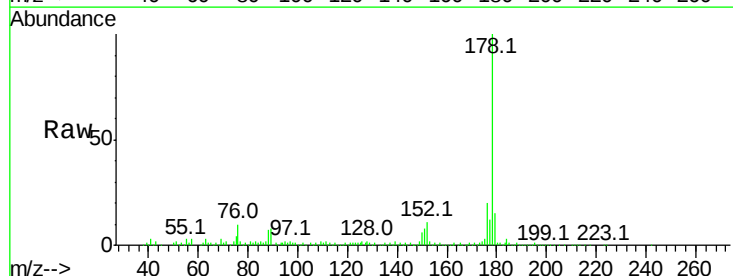
Instrument :
 BNA_F
 ClientSampleId :

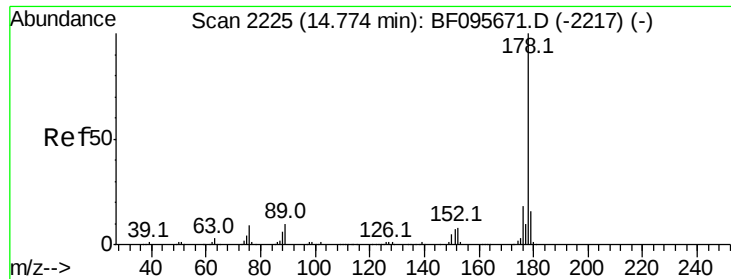
Tot Ion:188 Resp: 232411
 Ion Ratio Lower Upper
 188 100
 94 10.7 9.4 14.2
 80 11.0 10.2 15.2



#70
 Phenanthrene
 Concen: 16.47 ng
 RT: 14.63 min Scan# 2218
 Delta R.T. -0.05 min
 Lab File: BF095892.D
 Acq: 13 Jun 2017 2:03

Tgt Ion:178 Resp: 220852
 Ion Ratio Lower Upper
 178 100
 176 19.6 16.2 24.4
 179 15.4 12.6 19.0

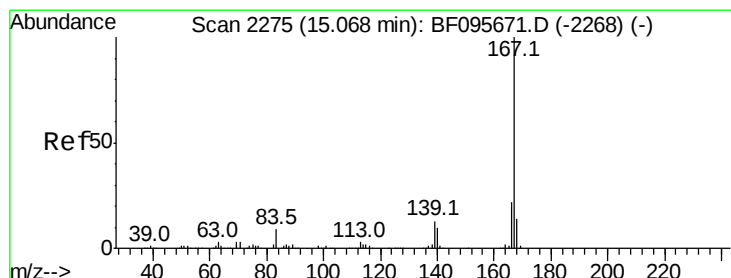
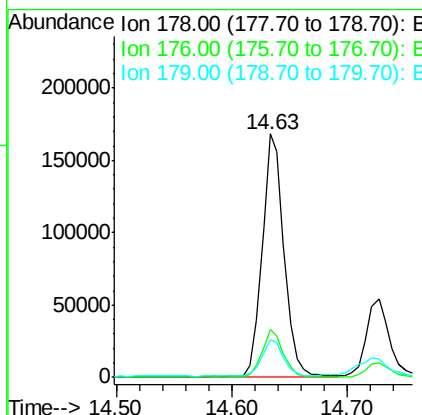
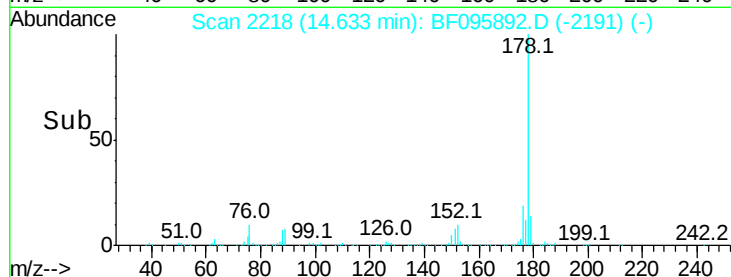
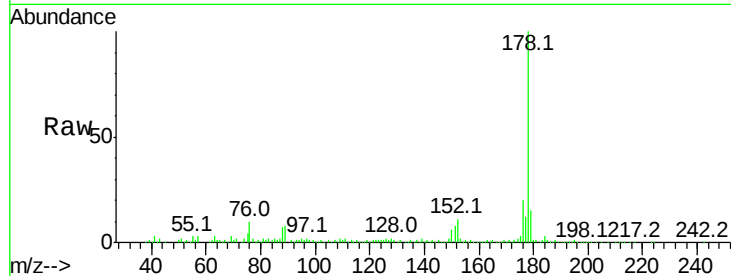




#71
 Anthracene
 Concen: 15.78 ng
 RT: 14.63 min Scan# 2218
 Delta R.T. -0.14 min
 Lab File: BF095892.D
 Acq: 13 Jun 2017 2:03

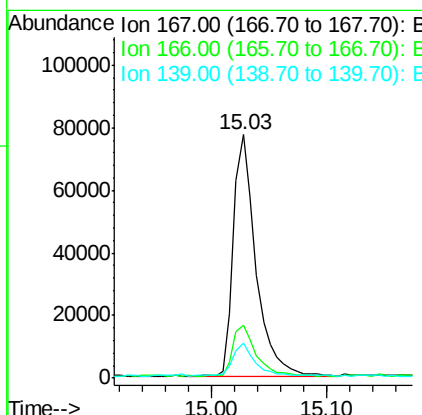
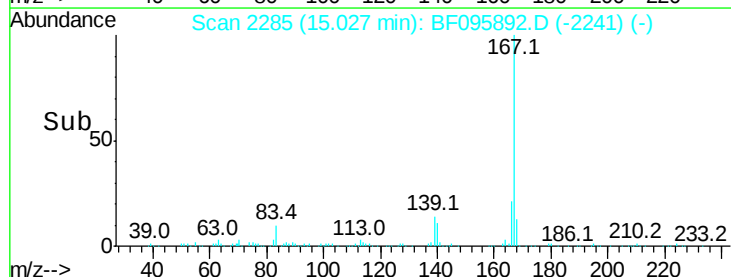
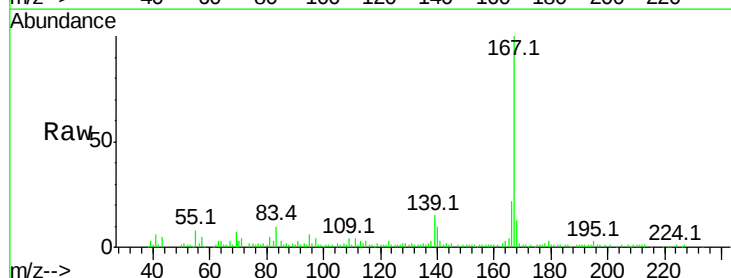
Instrument :
 BNA_F
 ClientSampleId :

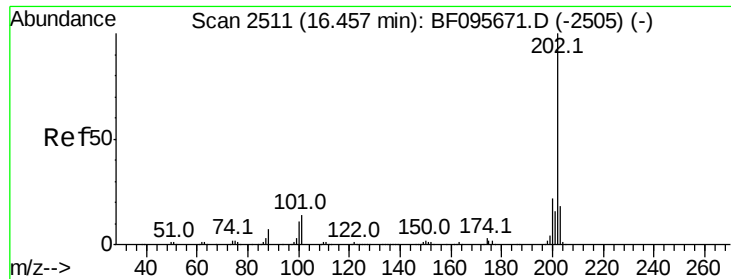
Tot Ion:178 Resp: 220852
 Ion Ratio Lower Upper
 178 100
 176 19.6 15.8 23.8
 179 15.4 12.7 19.1



#72
 Carbazole
 Concen: 7.66 ng
 RT: 15.03 min Scan# 2285
 Delta R.T. -0.04 min
 Lab File: BF095892.D
 Acq: 13 Jun 2017 2:03

Tgt Ion:167 Resp: 104489
 Ion Ratio Lower Upper
 167 100
 166 21.9 18.1 27.1
 139 14.5 11.7 17.5





#74

Fluoranthene

Concen: 13.19 ng

RT: 16.42 min Scan# 2522

Delta R.T. -0.04 min

Lab File: BF095892.D

Acq: 13 Jun 2017 2:03

Instrument :

BNA_F

ClientSampleId :

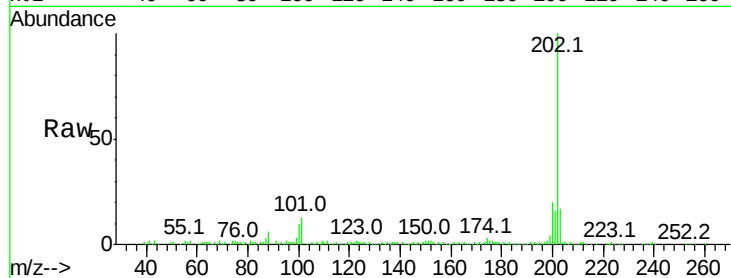
Tot Ion:202 Resp: 175056

Ion Ratio Lower Upper

202 100

101 12.6 0.0 33.2

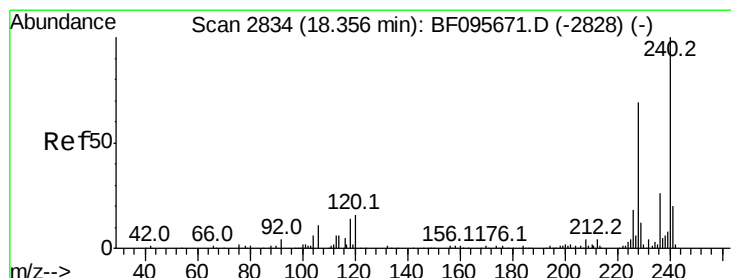
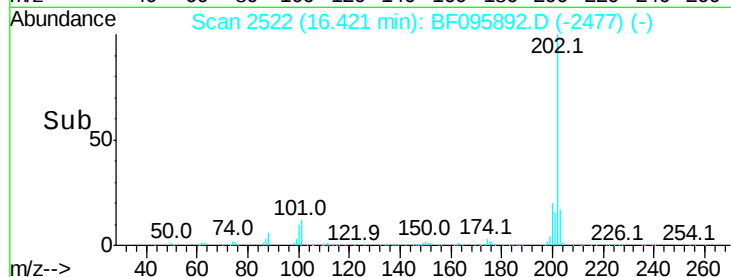
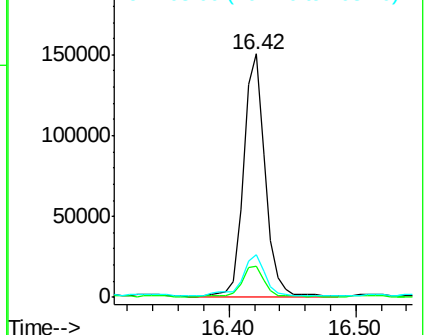
203 17.3 0.0 38.1



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: 20.00 ng

RT: 18.32 min Scan# 2844

Delta R.T. -0.04 min

Lab File: BF095892.D

Acq: 13 Jun 2017 2:03

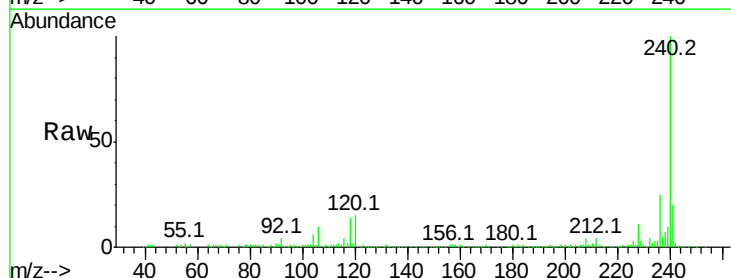
Tgt Ion:240 Resp: 156901

Ion Ratio Lower Upper

240 100

120 14.9 5.8 8.8#

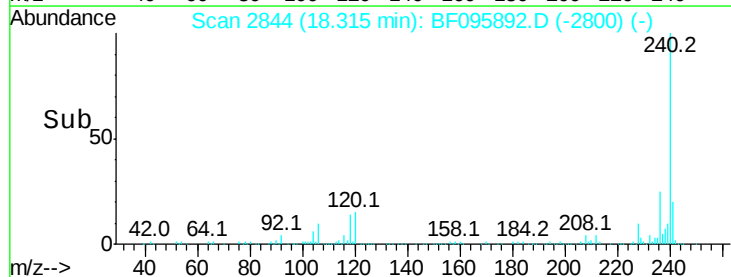
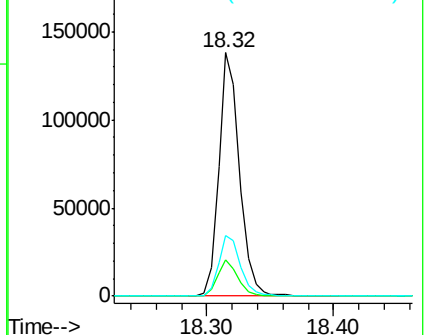
236 24.9 20.5 30.7

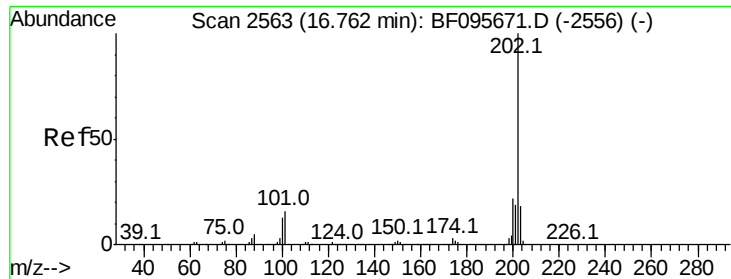


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 12.37 ng

RT: 16.72 min Scan# 2573

Delta R.T. -0.04 min

Lab File: BF095892.D

Acq: 13 Jun 2017 2:03

Instrument :

BNA_F

ClientSampleId :

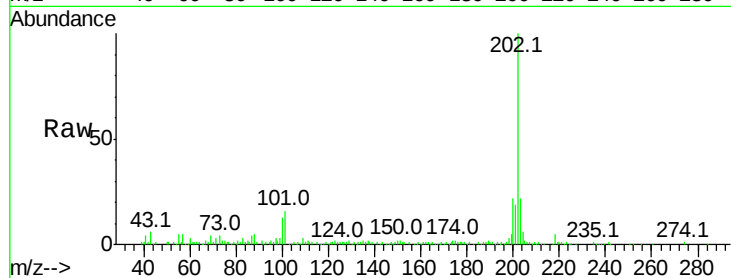
Tot Ion:202 Resp: 144862

Ion Ratio Lower Upper

202 100

200 21.6 17.6 26.4

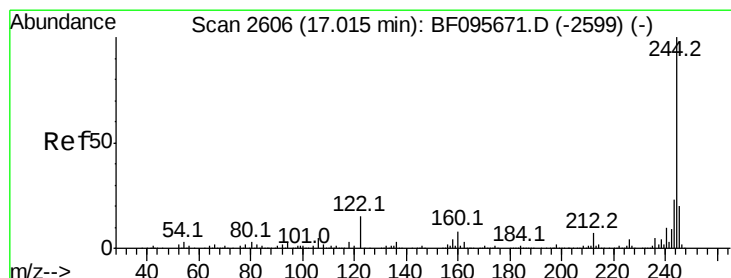
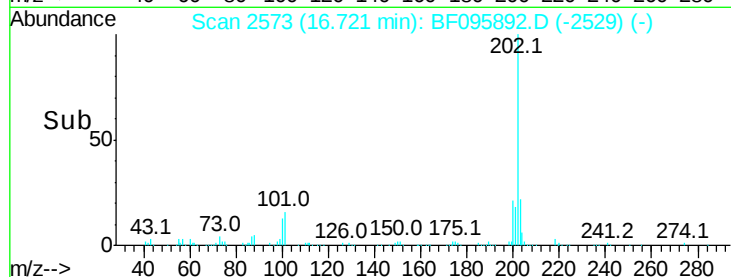
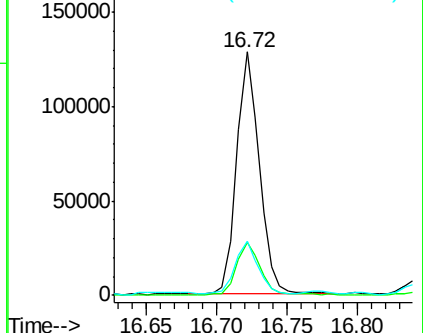
203 22.2 14.4 21.6#



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: 54.90 ng

RT: 16.97 min Scan# 2616

Delta R.T. -0.04 min

Lab File: BF095892.D

Acq: 13 Jun 2017 2:03

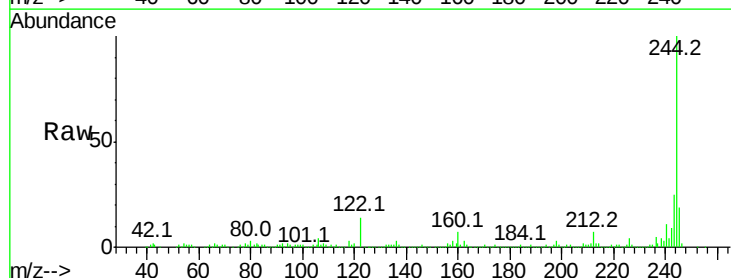
Tgt Ion:244 Resp: 347121

Ion Ratio Lower Upper

244 100

212 6.7 6.0 9.0

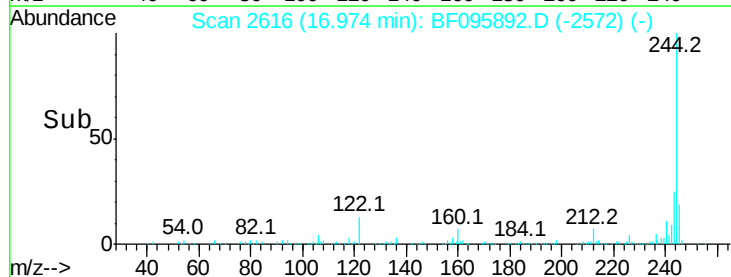
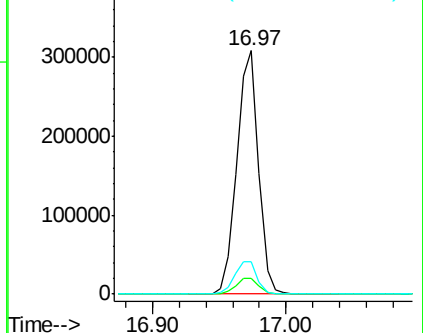
122 13.6 10.3 15.5

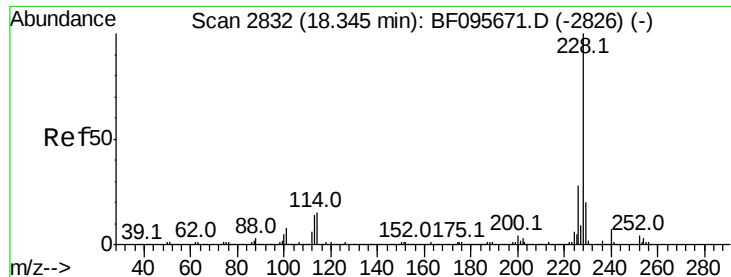


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 3.26 ng

RT: 18.31 min Scan# 2843

Delta R.T. -0.04 min

Lab File: BF095892.D

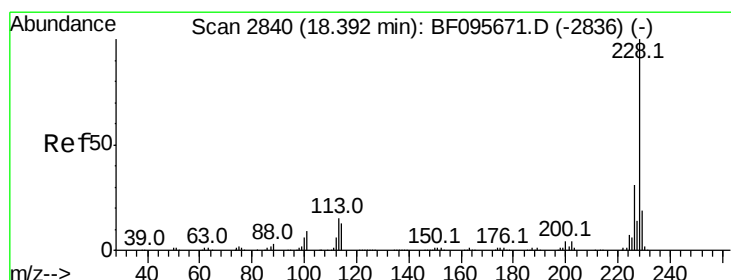
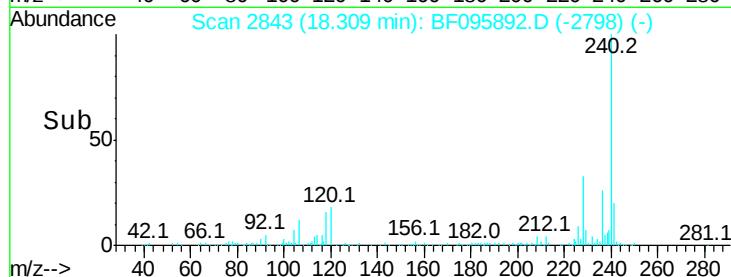
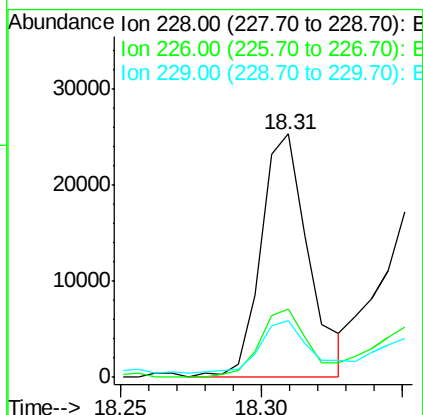
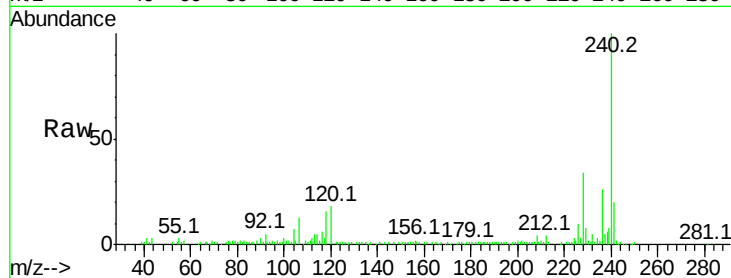
Acq: 13 Jun 2017 2:03

Instrument :

BNA_F

ClientSampleId :

Tot Ion:228	Resp:	29707
Ion Ratio	Lower	Upper
228	100	
226	28.2	22.6 33.8
229	23.3	16.3 24.5



#82

Chrysene

Concen: 3.42 ng

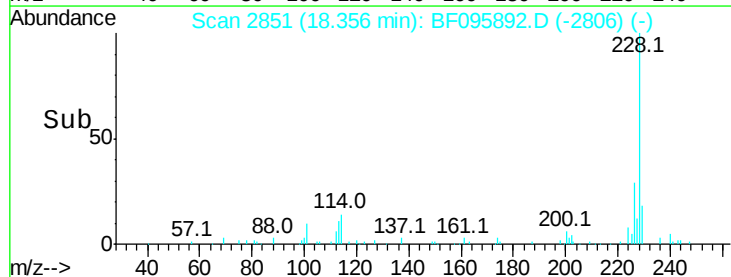
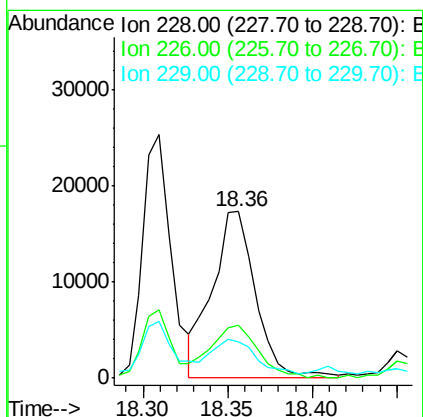
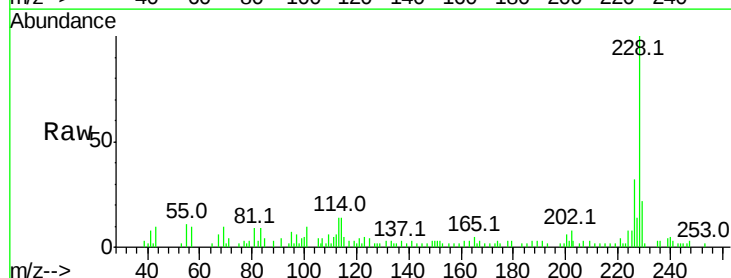
RT: 18.36 min Scan# 2851

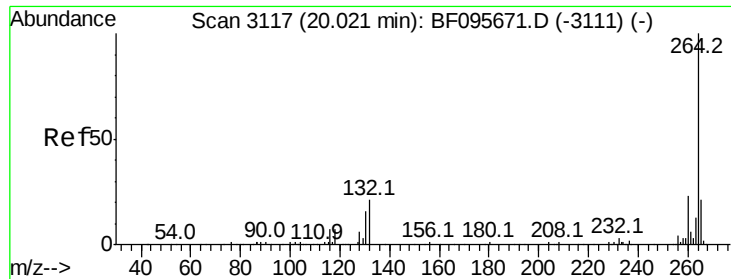
Delta R.T. -0.04 min

Lab File: BF095892.D

Acq: 13 Jun 2017 2:03

Tgt Ion:228	Resp:	31153
Ion Ratio	Lower	Upper
228	100	
226	31.8	24.9 37.3
229	21.9	15.8 23.6

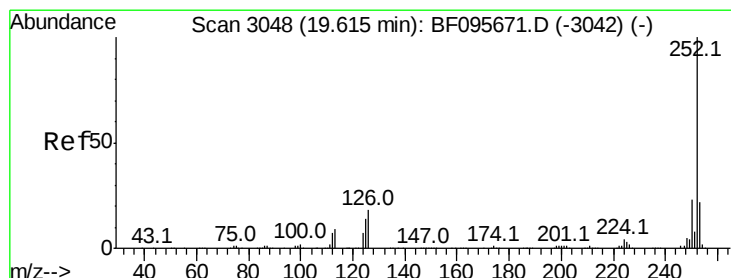
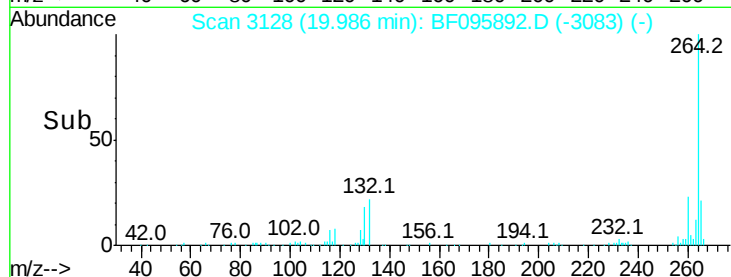
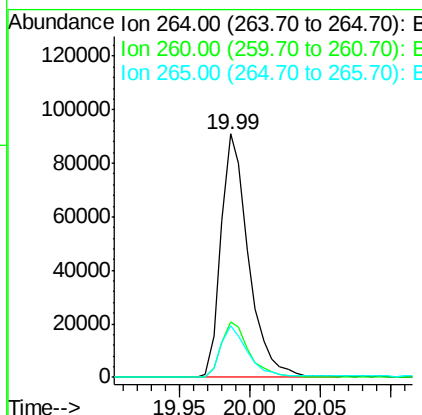
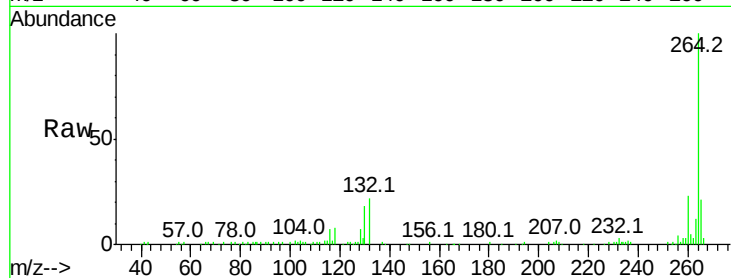




#86
Pervlene-d12
Concen: 20.00 ng
RT: 19.99 min Scan# 3128
Delta R.T. -0.04 min
Lab File: BF095892.D
Acq: 13 Jun 2017 2:03

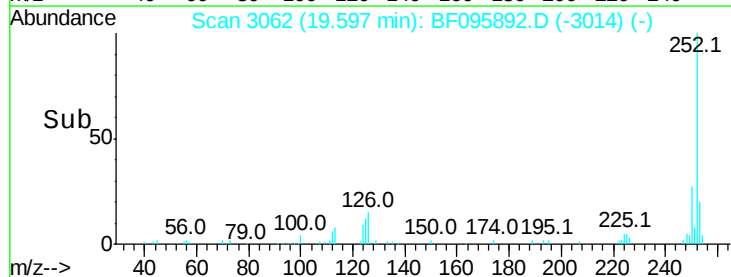
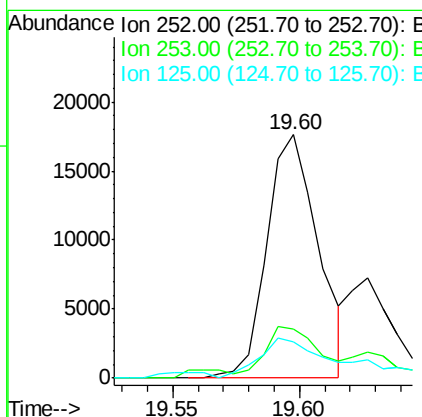
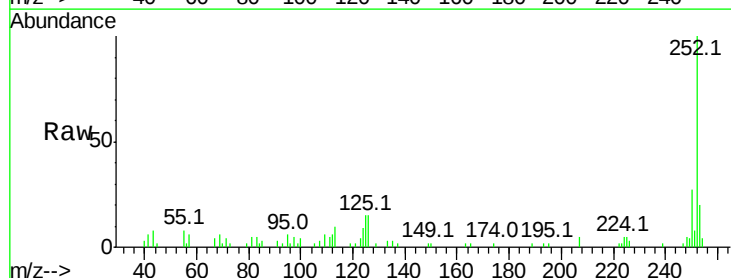
Instrument :
BNA_F
ClientSampleId :

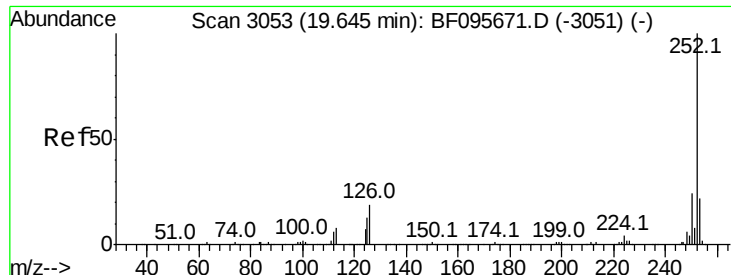
Tot Ion:264 Resp: 123609
Ion Ratio Lower Upper
264 100
260 22.5 19.5 29.3
265 21.3 17.2 25.8



#87
Benzo(b)fluoranthene
Concen: 3.23 ng
RT: 19.60 min Scan# 3062
Delta R.T. -0.02 min
Lab File: BF095892.D
Acq: 13 Jun 2017 2:03

Tgt Ion:252 Resp: 25012
Ion Ratio Lower Upper
252 100
253 20.1 18.1 27.1
125 14.8 9.8 14.8#

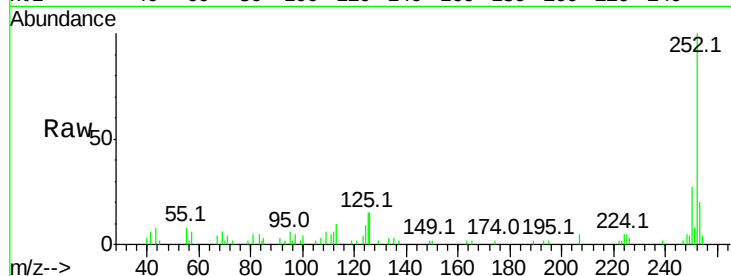




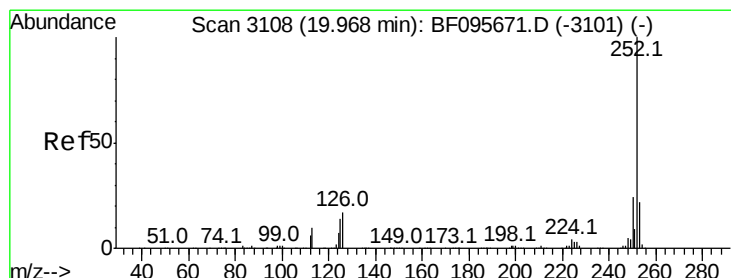
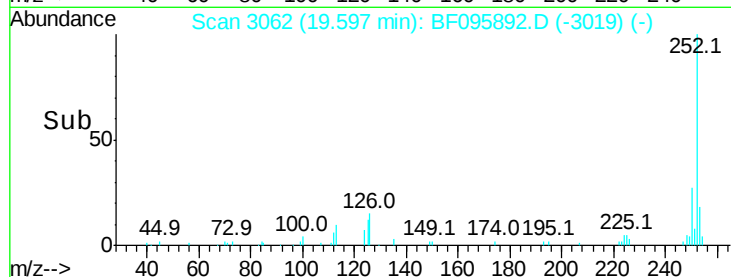
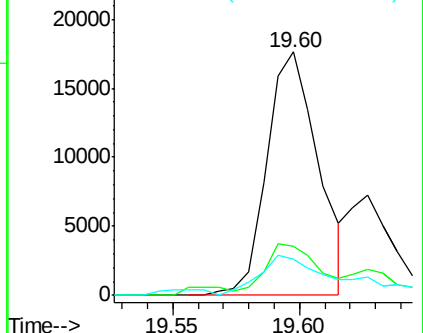
#88
Benzo(k)fluoranthene
Concen: 3.38 ng
RT: 19.60 min Scan# 3062
Delta R.T. -0.05 min
Lab File: BF095892.D
Acq: 13 Jun 2017 2:03

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 25012
Ion Ratio Lower Upper
252 100
253 20.1 18.4 27.6
125 14.8 13.1 19.7

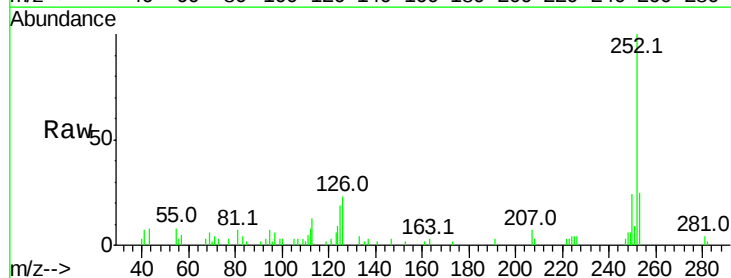


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#89
Benzo(a)pyrene
Concen: 2.25 ng
RT: 19.94 min Scan# 3120
Delta R.T. -0.03 min
Lab File: BF095892.D
Acq: 13 Jun 2017 2:03

Tgt Ion:252 Resp: 15981
Ion Ratio Lower Upper
252 100
253 25.2 17.5 26.3
125 19.2 11.0 16.4#



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

