

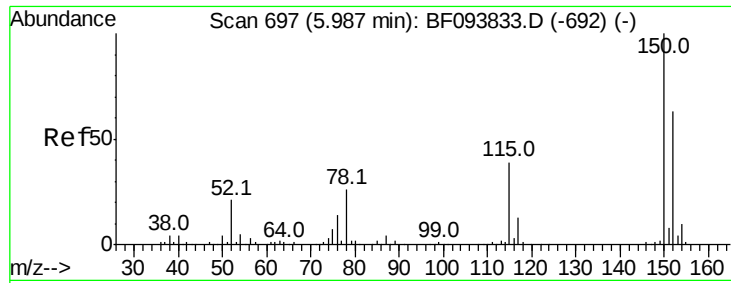
Data Path : Z:\HPCHEM1\BNA F\DATA\BF033117\
 Data File : BF094109.D
 Acq On : 31 Mar 2017 21:15
 Operator : SJ/MA
 Sample : I2463-11
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-BB-8-9-ESW

Quant Time: Mar 31 23:11:06 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 31 14:38:29 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.90	152	160896	20.00	ng	0.00
21) Naphthalene-d8	7.40	136	562620	20.00	ng	0.00
38) Acenaphthene-d10	9.55	164	235959	20.00	ng	0.00
63) Phenanthrene-d10	11.37	188	346324	20.00	ng	0.00
75) Chrysene-d12	14.67	240	252122	20.00	ng	0.04
86) Perylene-d12	16.30	264	217463	20.00	ng	0.05
System Monitoring Compounds						
5) 2-Fluorophenol	4.44	112	1020904	107.17	ng	0.00
7) Phenol-d6	5.51	99	1253584	106.37	ng	0.00
23) Nitrobenzene-d5	6.55	82	750377	76.11	ng	0.00
41) 2,4,6-Tribromophenol	10.52	330	203492	109.14	ng	0.00
44) 2-Fluorobiphenyl	8.73	172	1298671	83.95	ng	0.00
78) Terphenyl-d14	13.38	244	587931	52.27	ng	0.03
Target Compounds						Qvalue
9) Benzaldehyde	5.39	77	19200	2.41	ng	97
10) Phenol	5.52	94	56876	4.24	ng	90
17) 2-Methylphenol	6.21	107	240240	26.79	ng	94
19) n-Nitroso-di-n-propylamine	6.36	70	118850	15.69	ng	# 62
20) 3+4-Methylphenols	6.40	107	326347	30.05	ng	# 61
27) 2,4-Dimethylphenol	7.03	122	519505	65.02	ng	# 93
29) 2,4-Dichlorophenol	7.25	162	130013	17.40	ng	99
31) Naphthalene	7.41	128	563661	20.84	ng	# 79
32) Benzoic acid	7.19	122	521690	98.09	ng	# 12
33) 4-Chloroaniline	7.43	127	53938	4.92	ng	# 40
35) Caprolactam	7.97	113	58389	24.51	ng	# 46
37) 2-Methylnaphthalene	8.27	142	71358	3.96	ng	97
46) 2-Chloronaphthalene	9.00	162	153659	10.31	ng	# 41
49) Dimethylphthalate	9.22	163	83049	4.95	ng	100
55) 4-Nitrophenol	9.66	139	9776	2.76	ng	95
68) Atrazine	11.12	200	10492	2.92	ng	# 54
70) Phenanthrene	11.40	178	101076	5.25	ng	96
71) Anthracene	11.40	178	101076	5.10	ng	97
82) Chrysene	14.70	228	30891	2.26	ng	# 78

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

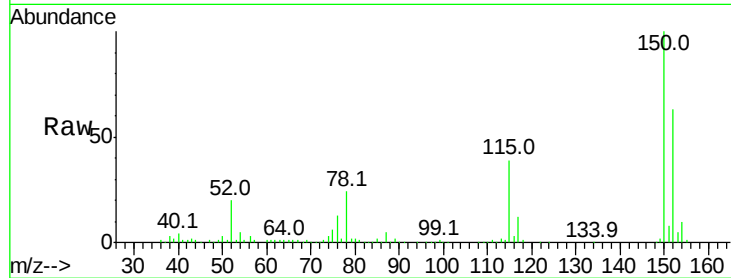


#1

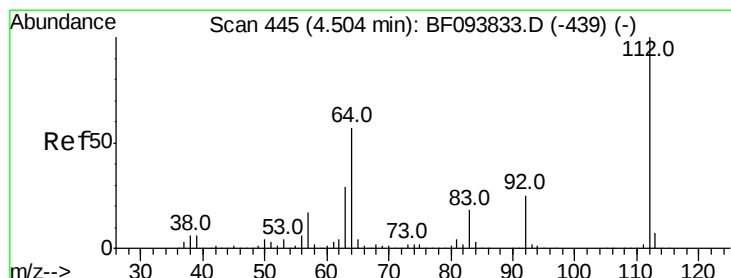
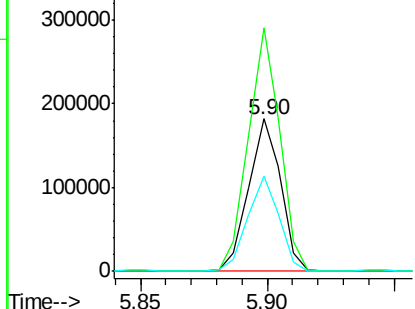
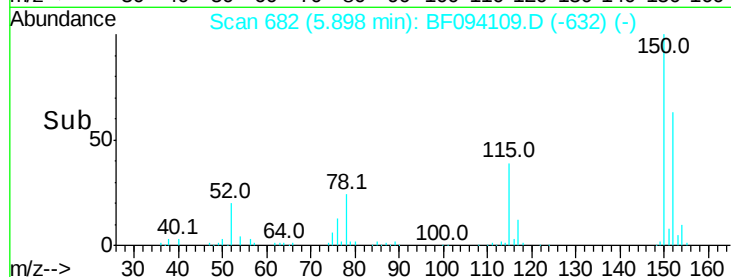
1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 5.90 min Scan# 682
 Delta R.T. -0.01 min
 Lab File: BF094109.D
 Acq: 31 Mar 2017 21:15

Instrument :
 BNA_F
 ClientSampleId :
 E2-BB-8-9-ESW

Tot Ion:152 Resp: 160896
 Ion Ratio Lower Upper
 152 100
 150 159.6 126.2 189.2
 115 62.5 52.2 78.2



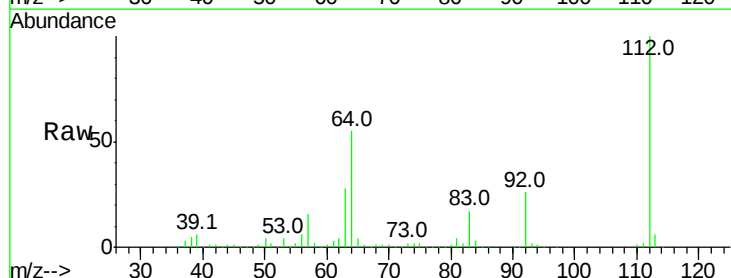
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



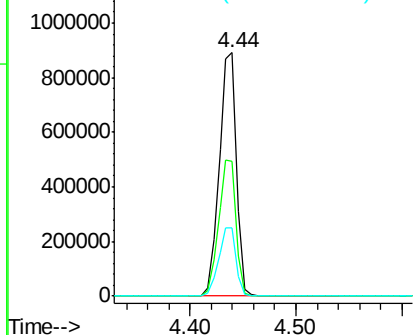
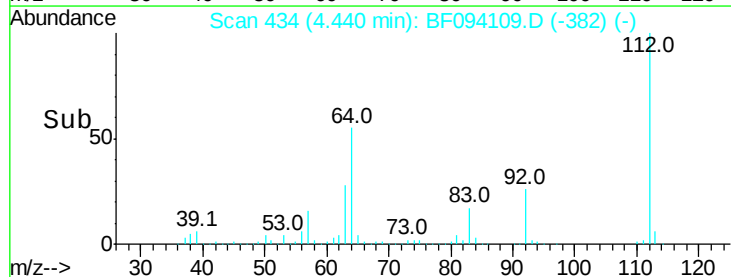
#5

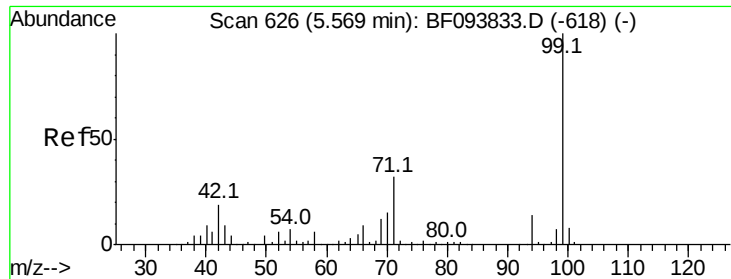
2-Fluorophenol
 Concen: 107.17 ng
 RT: 4.44 min Scan# 434
 Delta R.T. 0.01 min
 Lab File: BF094109.D
 Acq: 31 Mar 2017 21:15

Tgt Ion:112 Resp: 1020904
 Ion Ratio Lower Upper
 112 100
 64 55.5 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: 106.37 ng

RT: 5.51 min Scan# 616

Delta R.T. -0.00 min

Lab File: BF094109.D

Acq: 31 Mar 2017 21:15

Instrument :

BNA_F

ClientSampleId :

E2-BB-8-9-ESW

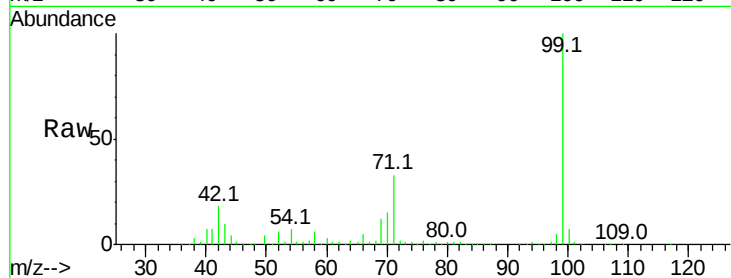
Tot Ion: 99 Resp: 1253584

Ion Ratio Lower Upper

99 100

42 18.0 13.5 20.3

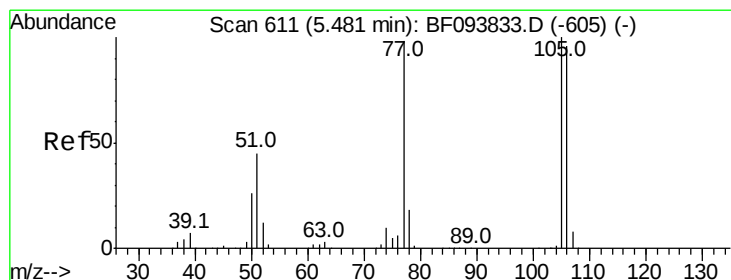
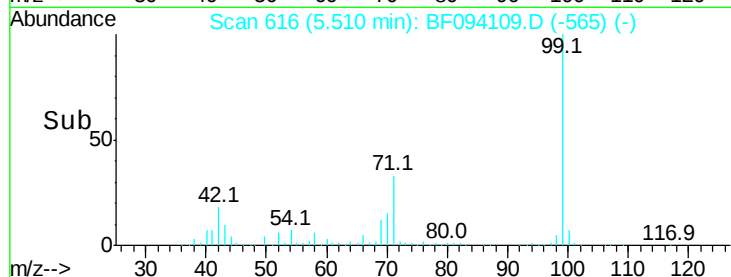
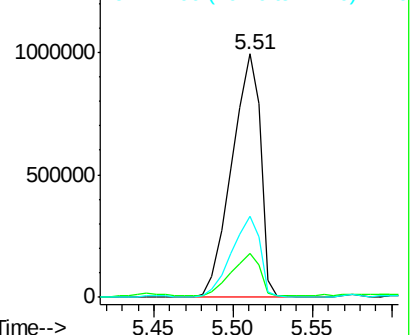
71 33.3 24.5 36.7



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



#9

Benzaldehyde

Concen: 2.41 ng

RT: 5.39 min Scan# 596

Delta R.T. -0.01 min

Lab File: BF094109.D

Acq: 31 Mar 2017 21:15

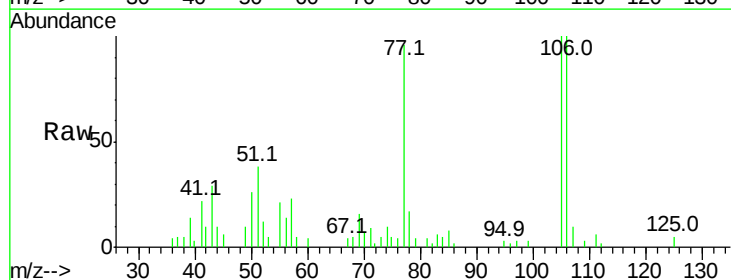
Tgt Ion: 77 Resp: 19200

Ion Ratio Lower Upper

77 100

105 104.6 83.8 123.8

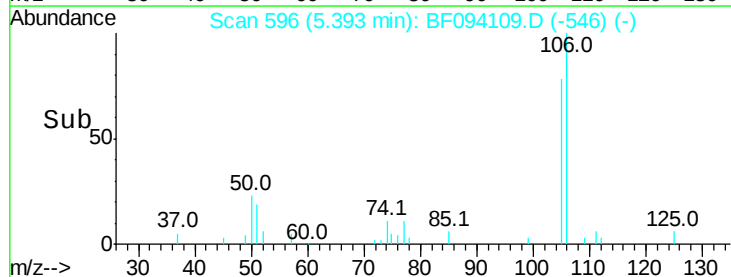
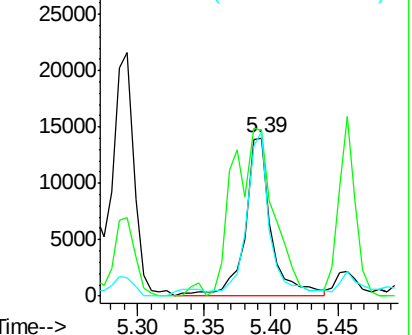
106 104.2 79.1 119.1

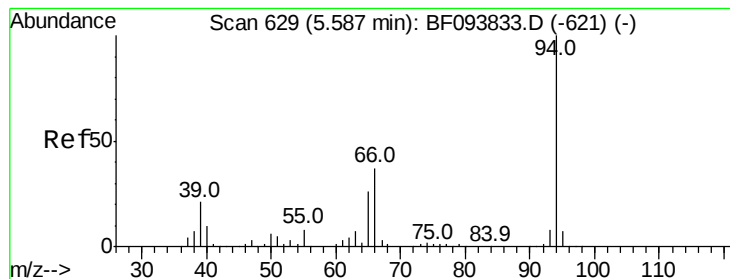


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E





#10

Phenol

Concen: 4.24 ng

RT: 5.52 min Scan# 618

Delta R.T. -0.01 min

Lab File: BF094109.D

Acq: 31 Mar 2017 21:15

Instrument :

BNA_F

ClientSampleId :

E2-BB-8-9-ESW

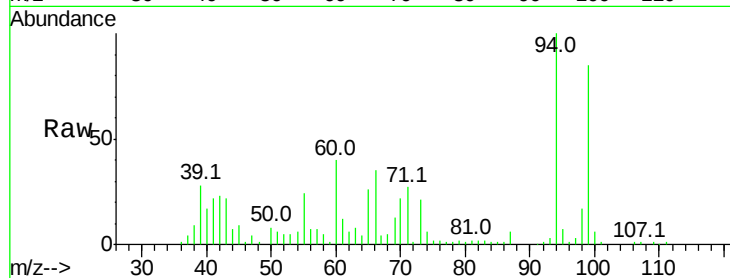
Tot Ion: 94 Resp: 56876

Ion Ratio Lower Upper

94 100

65 25.6 9.9 49.9

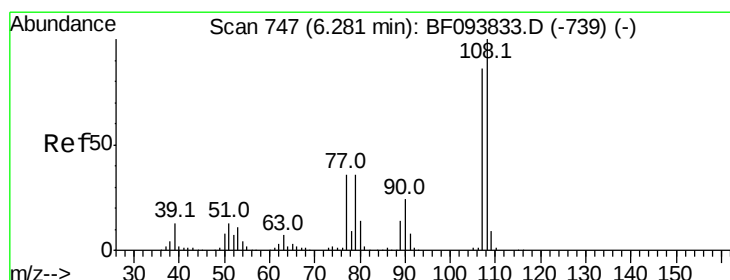
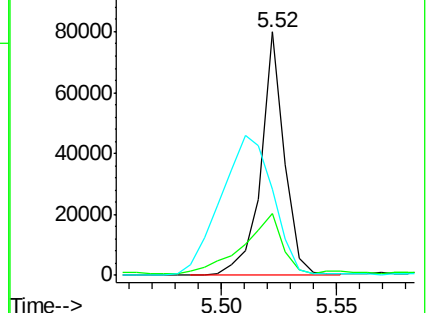
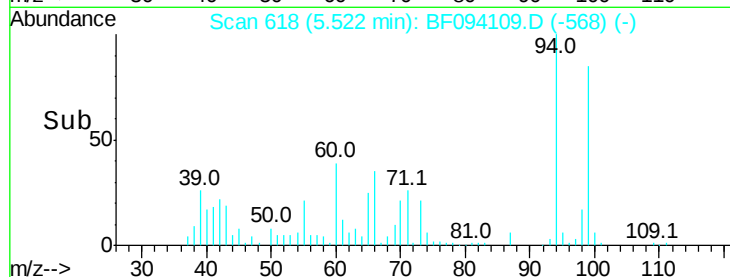
66 35.3 23.1 63.1



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



#17

2-Methylphenol

Concen: 26.79 ng

RT: 6.21 min Scan# 735

Delta R.T. -0.01 min

Lab File: BF094109.D

Acq: 31 Mar 2017 21:15

Tgt Ion: 107 Resp: 240240

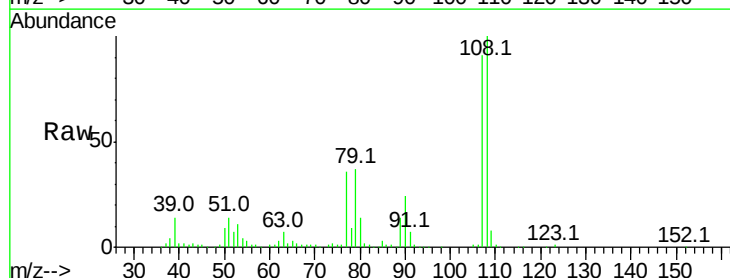
Ion Ratio Lower Upper

107 100

108 110.4 93.4 140.0

77 40.2 35.8 53.6

79 41.4 34.8 52.2

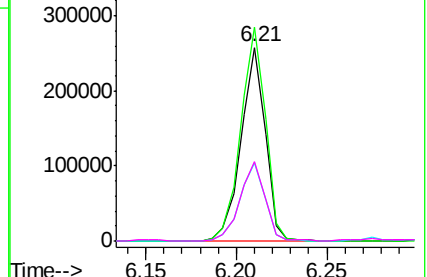
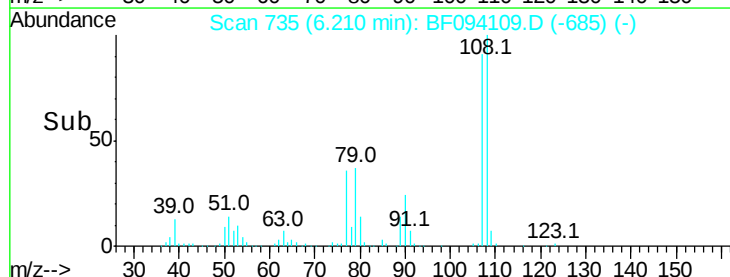


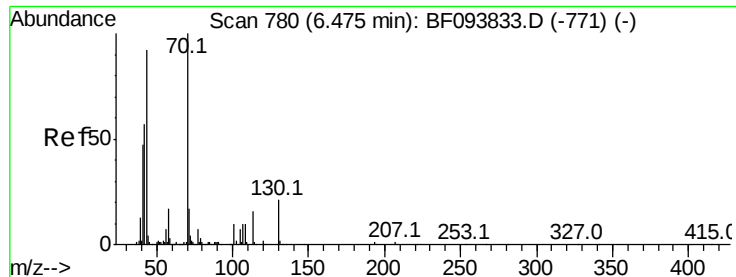
Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0





#19

n-Nitroso-di-n-propylamine

Concen: 15.69 ng

RT: 6.36 min Scan# 761

Delta R.T. -0.03 min

Lab File: BF094109.D

Acq: 31 Mar 2017 21:15

Instrument :

BNA_F

ClientSampleId :

E2-BB-8-9-ESW

Tot Ion: 70 Resp: 118850

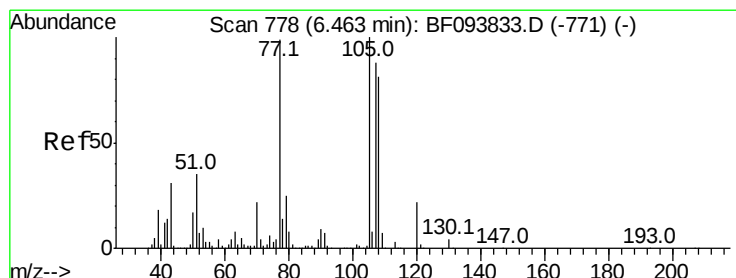
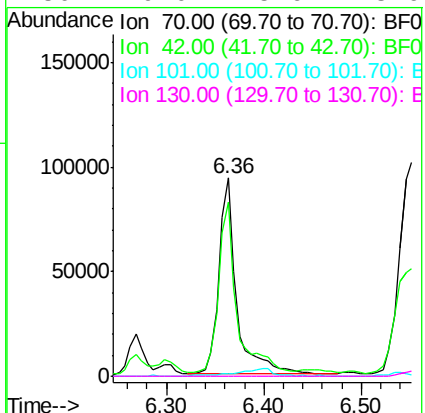
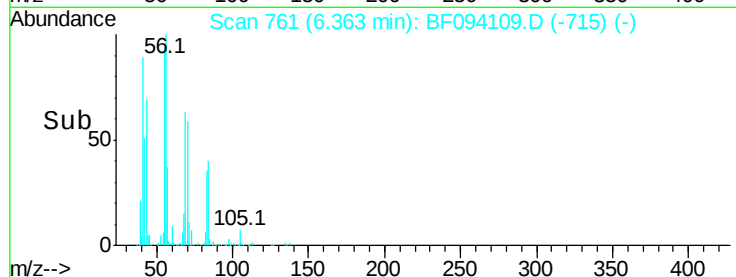
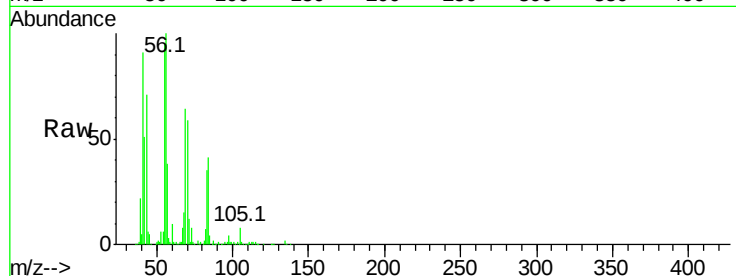
Ion Ratio Lower Upper

70 100

42 87.6 47.2 70.8#

101 1.1 7.2 10.8#

130 0.0 15.9 23.9#



#20

3+4-Methylphenols

Concen: 30.05 ng

RT: 6.40 min Scan# 767

Delta R.T. -0.00 min

Lab File: BF094109.D

Acq: 31 Mar 2017 21:15

Tgt Ion: 107 Resp: 326347

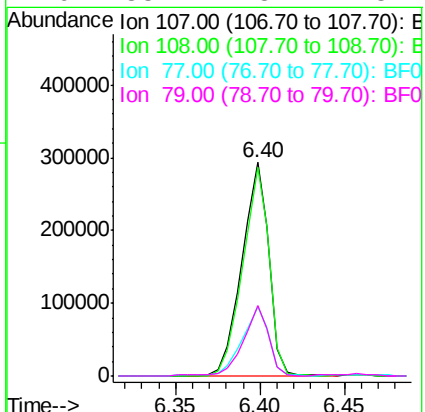
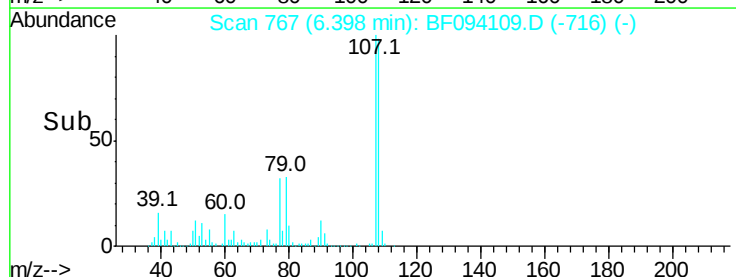
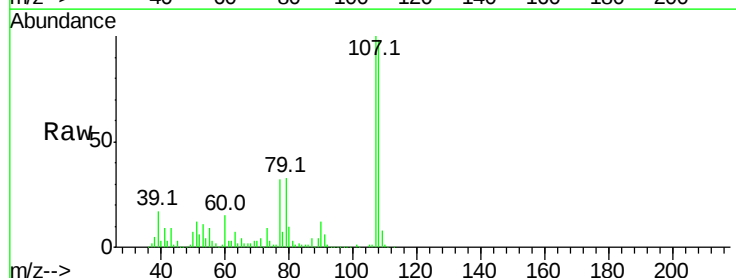
Ion Ratio Lower Upper

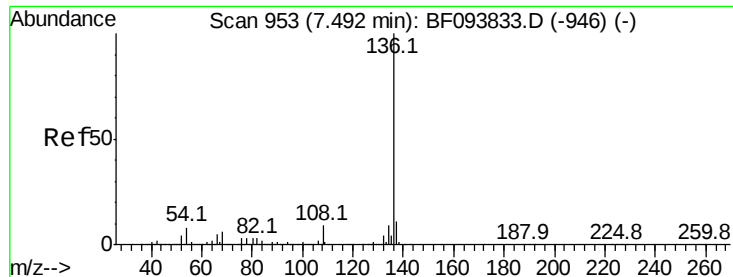
107 100

108 97.6 71.0 111.0

77 32.3 90.5 130.5#

79 33.2 8.4 48.4





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.40 min Scan# 938

Delta R.T. -0.01 min

Lab File: BF094109.D

Acq: 31 Mar 2017 21:15

Instrument :

BNA_F

ClientSampleId :

E2-BB-8-9-ESW

Tot Ion:136 Resp: 562620

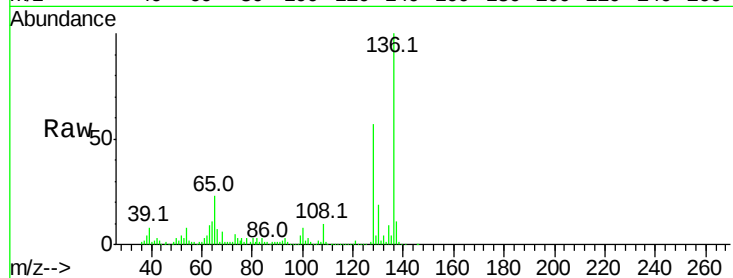
Ion Ratio Lower Upper

136 100

137 10.7 8.5 12.7

54 7.7 4.9 7.3#

68 6.4 4.1 6.1#

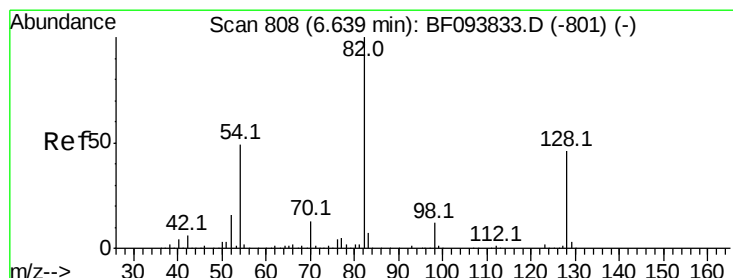
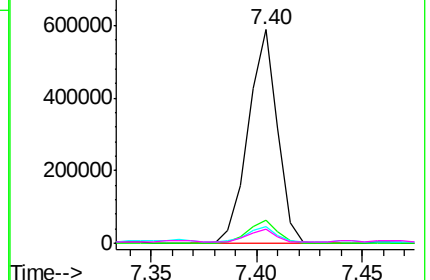
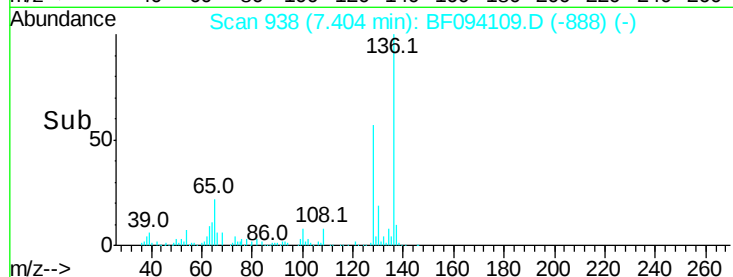


Abundance Ion 136.00 (135.70 to 136.70): E

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



#23

Nitrobenzene-d5

Concen: 76.11 ng

RT: 6.55 min Scan# 793

Delta R.T. -0.01 min

Lab File: BF094109.D

Acq: 31 Mar 2017 21:15

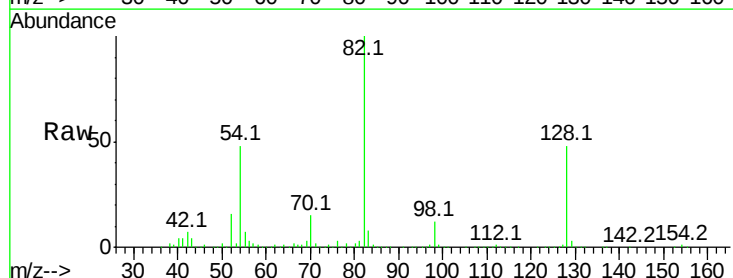
Tgt Ion: 82 Resp: 750377

Ion Ratio Lower Upper

82 100

128 47.6 34.0 51.0

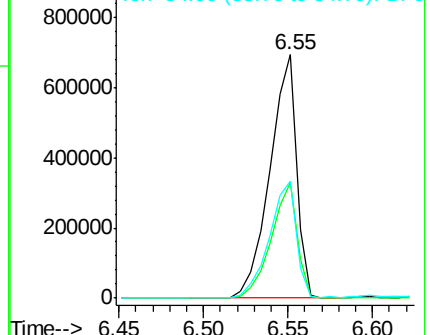
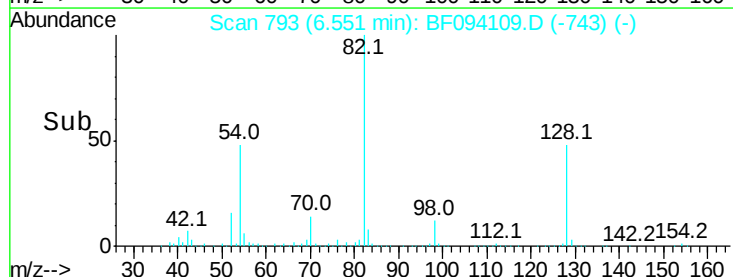
54 47.9 42.2 63.2

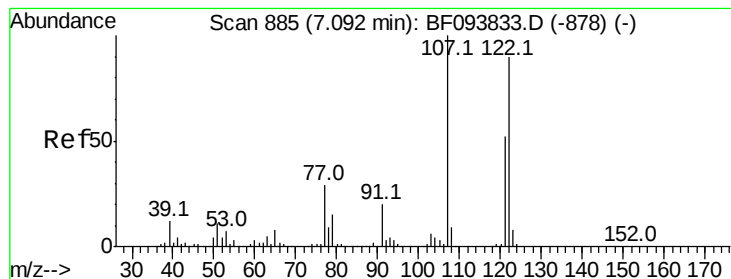


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#27

2,4-Dimethylphenol

Concen: 65.02 ng

RT: 7.03 min Scan# 875

Delta R.T. 0.01 min

Lab File: BF094109.D

Acq: 31 Mar 2017 21:15

Instrument :

BNA_F

ClientSampleId :

E2-BB-8-9-ESW

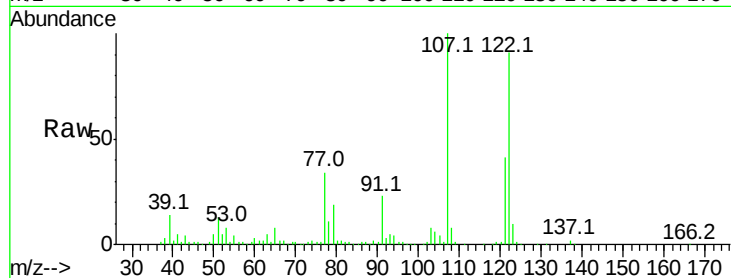
Tot Ion:122 Resp: 519505

Ion Ratio Lower Upper

122 100

107 109.5 89.2 133.8

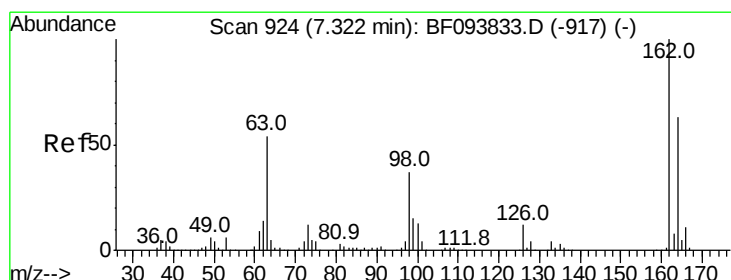
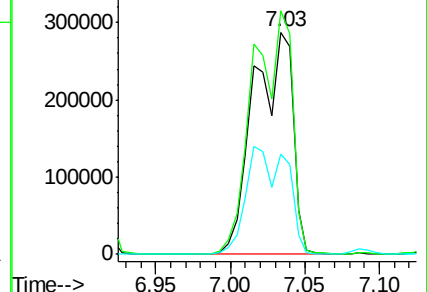
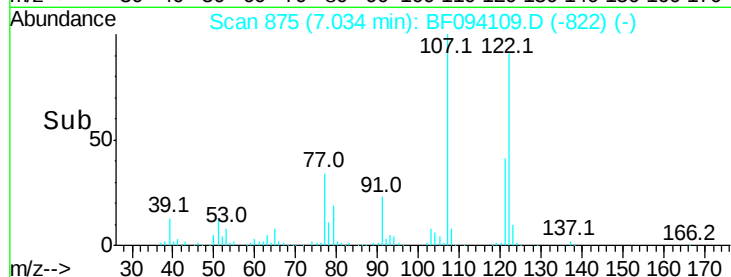
121 44.9 45.2 67.8#



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 107.00 (106.70 to 107.70): E

Ion 121.00 (120.70 to 121.70): E



#29

2,4-Dichlorophenol

Concen: 17.40 ng

RT: 7.25 min Scan# 911

Delta R.T. -0.01 min

Lab File: BF094109.D

Acq: 31 Mar 2017 21:15

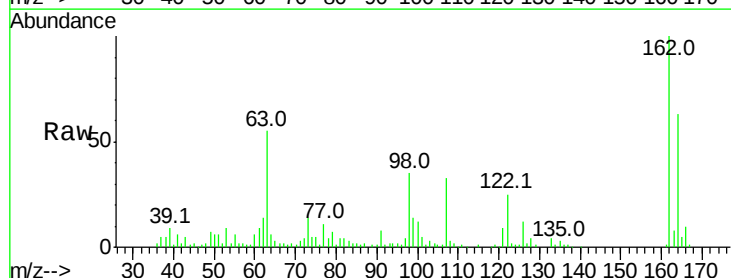
Tgt Ion:162 Resp: 130013

Ion Ratio Lower Upper

162 100

164 63.5 44.6 84.6

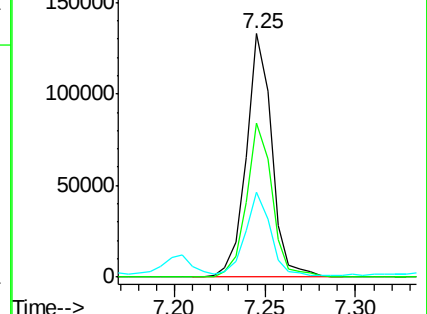
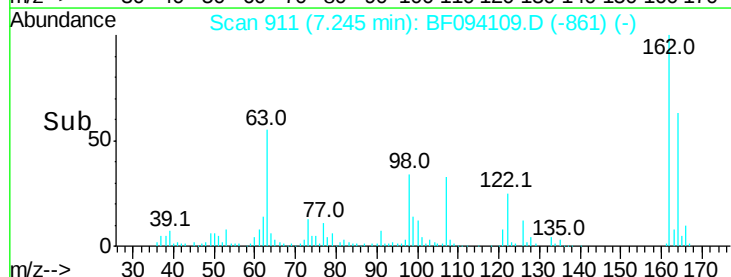
98 34.9 14.8 54.8

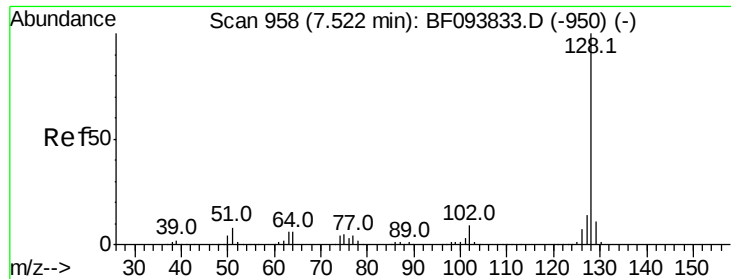


Abundance Ion 162.00 (161.70 to 162.70): E

Ion 164.00 (163.70 to 164.70): E

Ion 98.00 (97.70 to 98.70): BF0

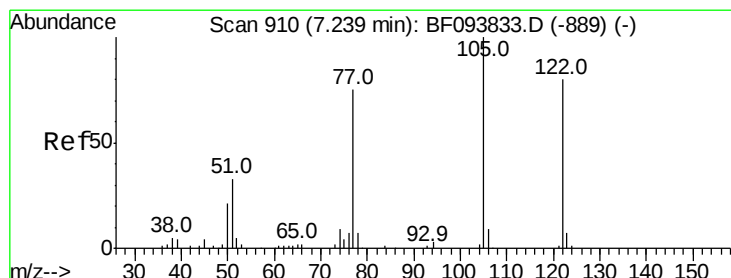
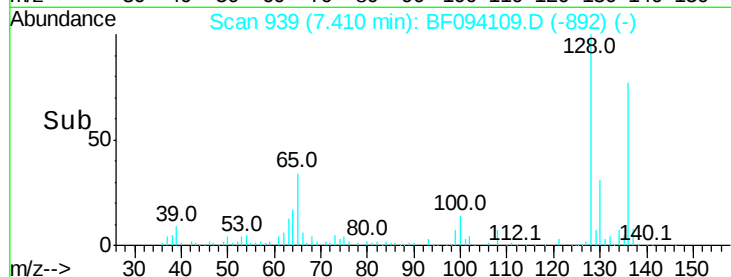
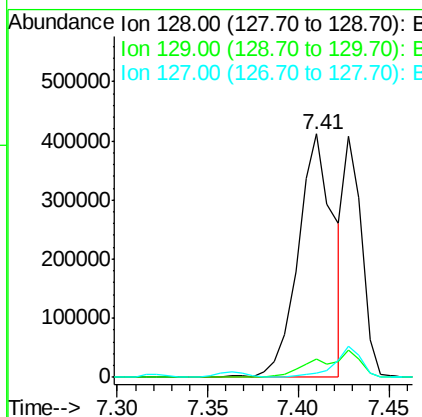
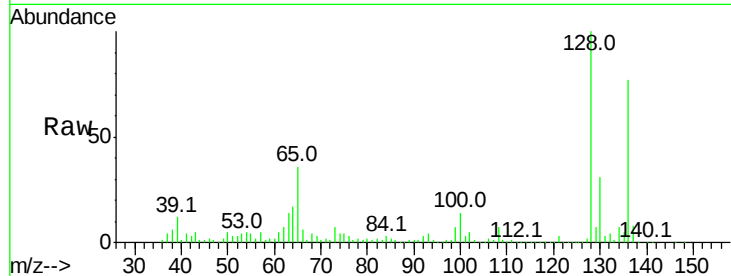




#31
Naphthalene
Concen: 20.84 ng
RT: 7.41 min Scan# 939
Delta R.T. -0.02 min
Lab File: BF094109.D
Acq: 31 Mar 2017 21:15

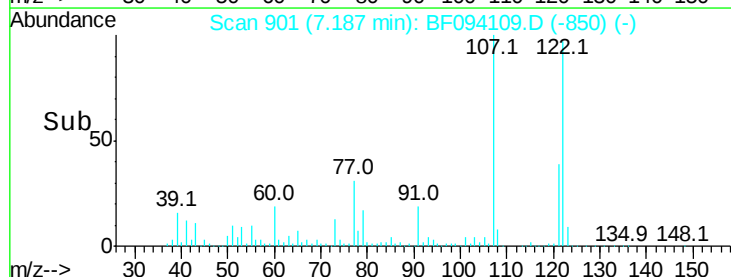
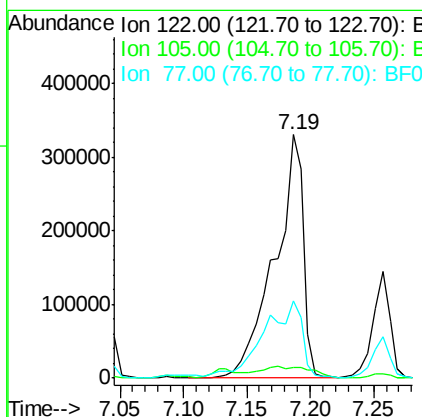
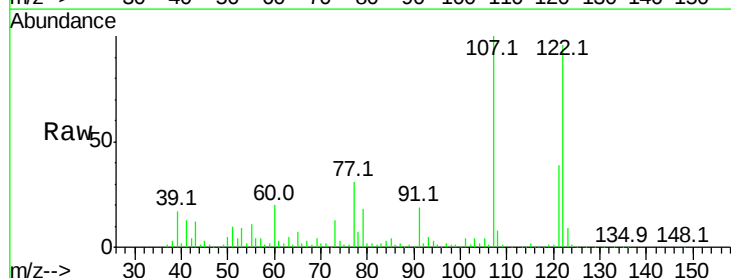
Instrument :
BNA_F
ClientSampleId :
E2-BB-8-9-ESW

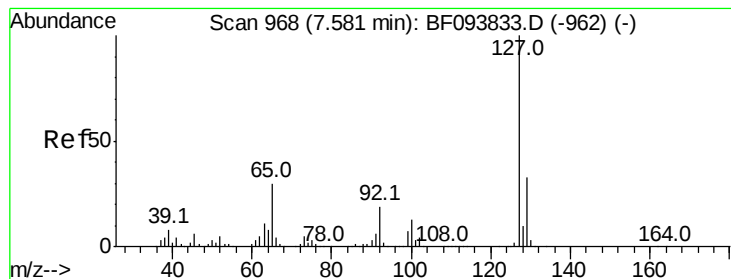
Tot Ion:128 Resp: 563661
Ion Ratio Lower Upper
128 100
129 7.3 9.0 13.6#
127 1.6 10.8 16.2#



#32
Benzoic acid
Concen: 98.09 ng
RT: 7.19 min Scan# 901
Delta R.T. -0.00 min
Lab File: BF094109.D
Acq: 31 Mar 2017 21:15

Tgt Ion:122 Resp: 521690
Ion Ratio Lower Upper
122 100
105 4.5 103.3 143.3#
77 31.8 73.7 113.7#





#33

4-Chloroaniline

Concen: 4.92 ng

RT: 7.43 min Scan# 942

Delta R.T. -0.08 min

Lab File: BF094109.D

Acq: 31 Mar 2017 21:15

Instrument :

BNA_F

ClientSampleId :

E2-BB-8-9-ESW

Tot Ion:127 Resp: 53938

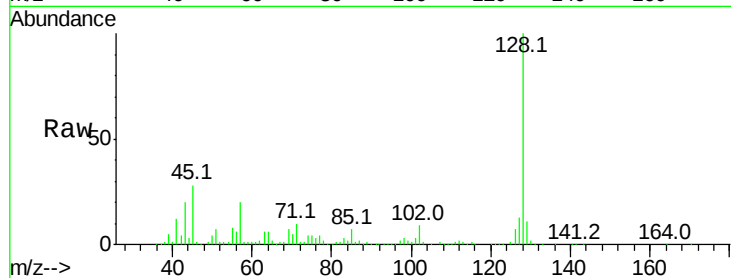
Ion Ratio Lower Upper

127 100

129 84.5 26.2 39.2#

65 12.1 27.8 41.8#

92 0.7 16.8 25.2#

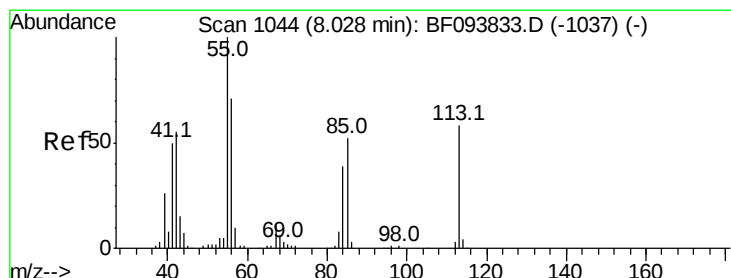
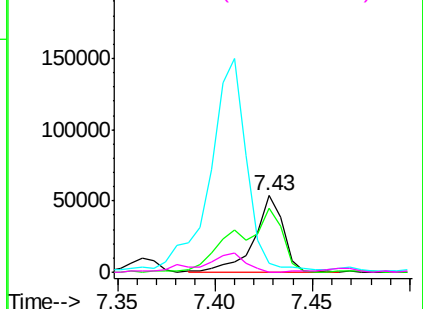
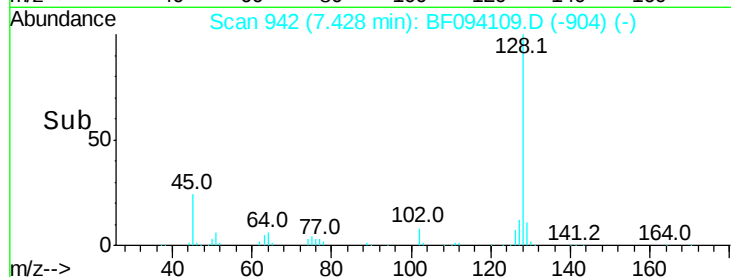


Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 65.00 (64.70 to 65.70): BF0

Ion 92.00 (91.70 to 92.70): BF0



#35

Caprolactam

Concen: 24.51 ng

RT: 7.97 min Scan# 1034

Delta R.T. 0.01 min

Lab File: BF094109.D

Acq: 31 Mar 2017 21:15

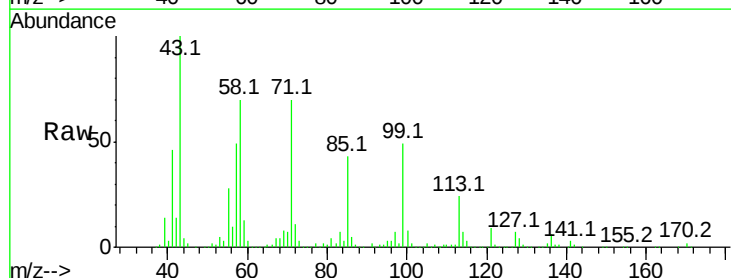
Tgt Ion:113 Resp: 58389

Ion Ratio Lower Upper

113 100

55 116.9 150.2 190.2#

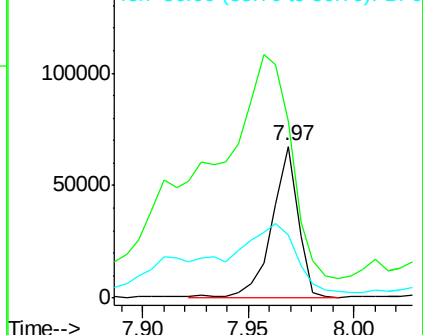
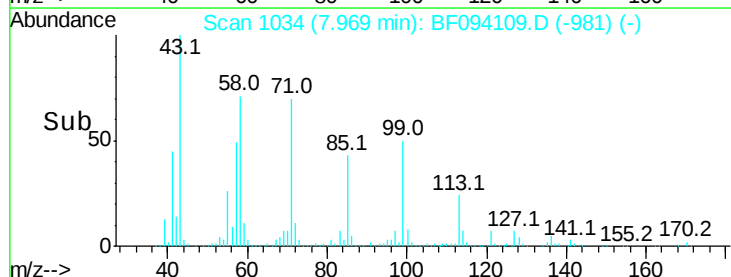
56 41.3 107.8 147.8#

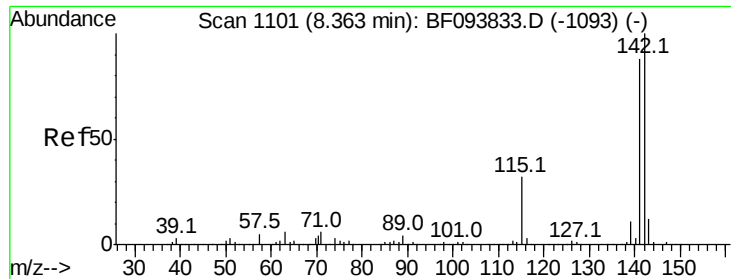


Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BF0

Ion 56.00 (55.70 to 56.70): BF0

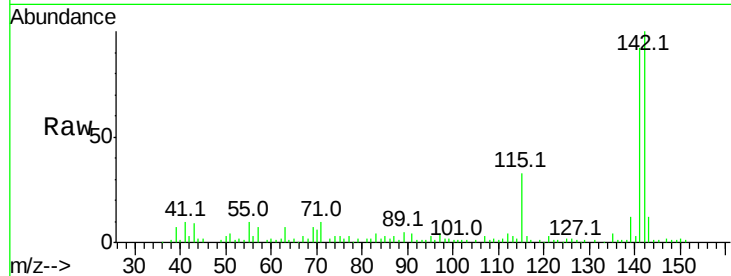




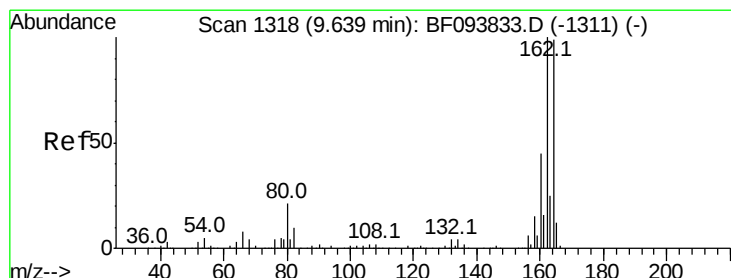
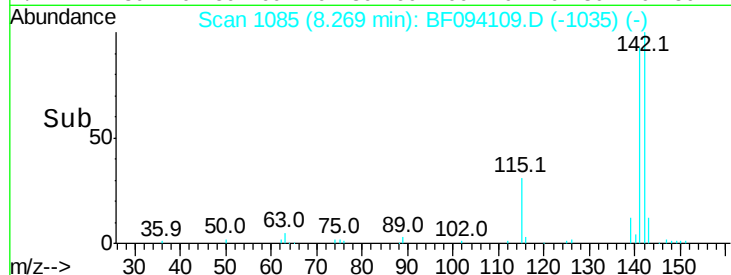
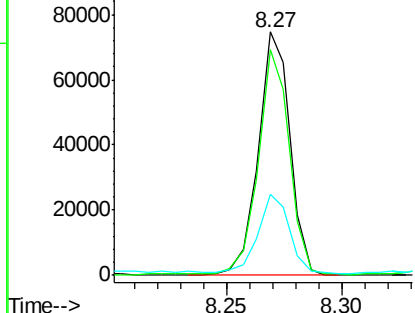
#37
2-Methylnaphthalene
Concen: 3.96 ng
RT: 8.27 min Scan# 1085
Delta R.T. -0.01 min
Lab File: BF094109.D
Acq: 31 Mar 2017 21:15

Instrument :
BNA_F
ClientSampleId :
E2-BB-8-9-ESW

Tot Ion:142 Resp: 71358
Ion Ratio Lower Upper
142 100
141 92.5 71.3 106.9
115 33.4 27.1 40.7

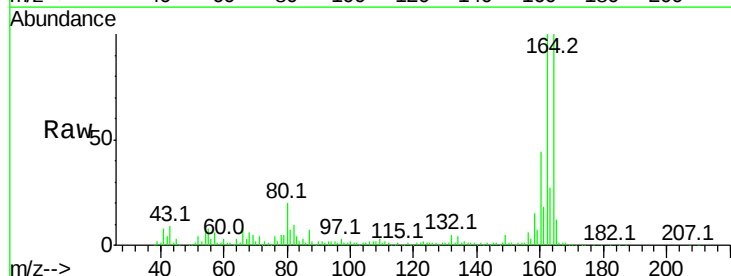


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

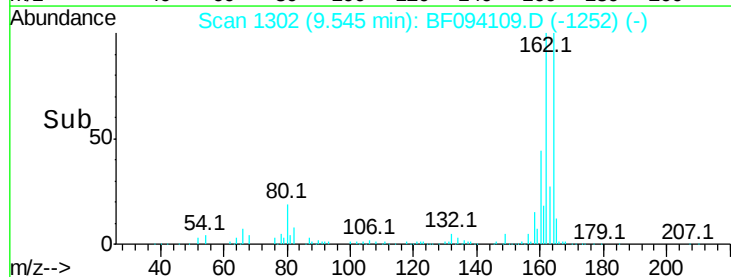
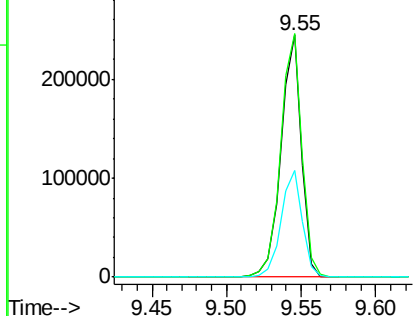


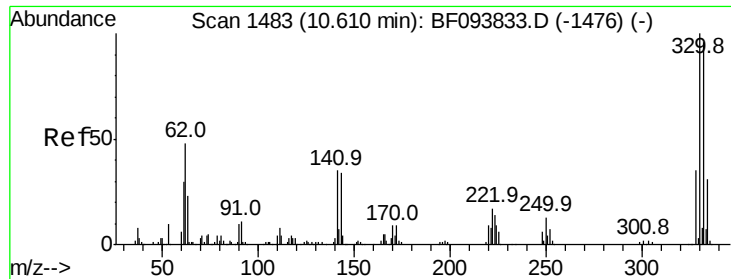
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.55 min Scan# 1302
Delta R.T. -0.01 min
Lab File: BF094109.D
Acq: 31 Mar 2017 21:15

Tgt Ion:164 Resp: 235959
Ion Ratio Lower Upper
164 100
162 100.5 82.6 123.8
160 43.8 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

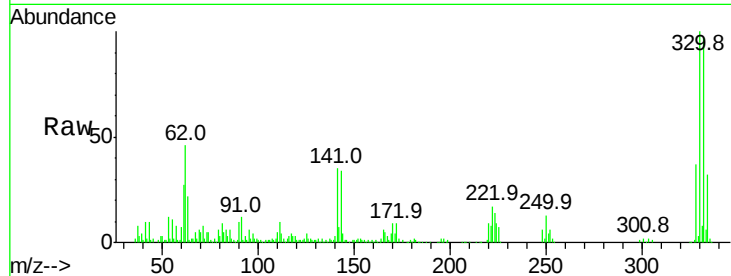




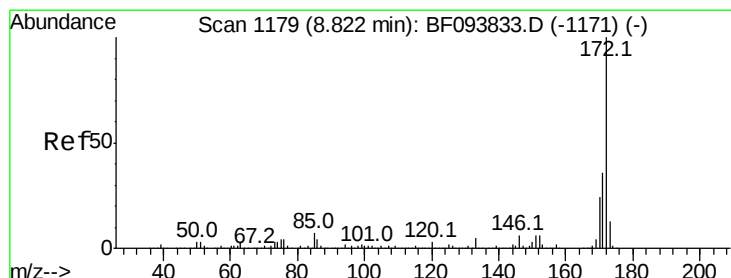
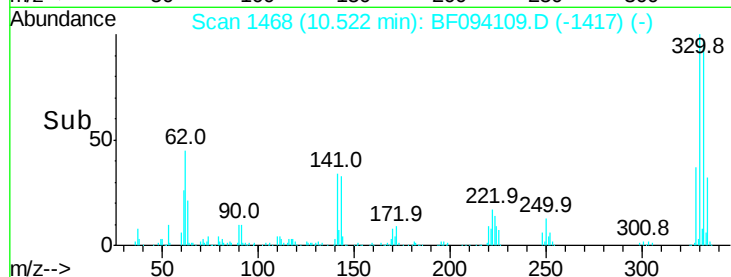
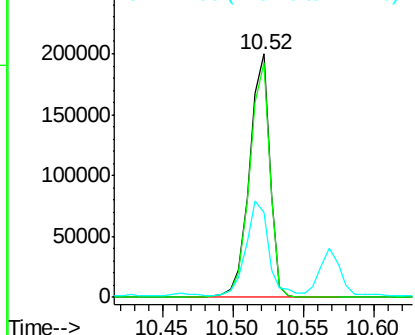
#41
 2,4,6-Tribromophenol
 Concen: 109.14 ng
 RT: 10.52 min Scan# 1468
 Delta R.T. -0.00 min
 Lab File: BF094109.D
 Acq: 31 Mar 2017 21:15

Instrument :
 BNA_F
 ClientSampleId :
 E2-BB-8-9-ESW

Tot Ion:330 Resp: 203492
 Ion Ratio Lower Upper
 330 100
 332 96.6 76.6 115.0
 141 42.6 31.4 47.2

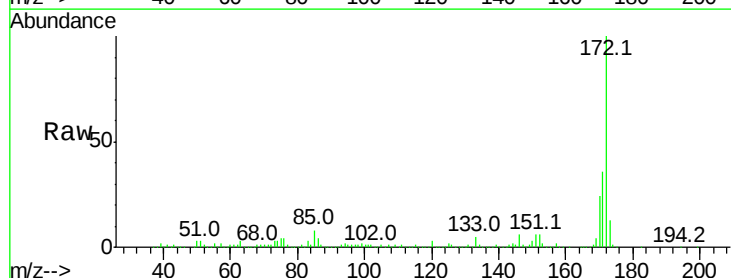


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

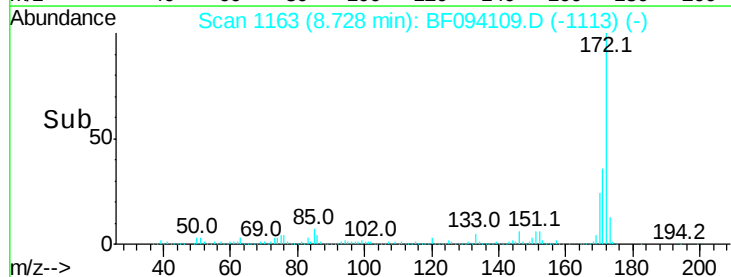
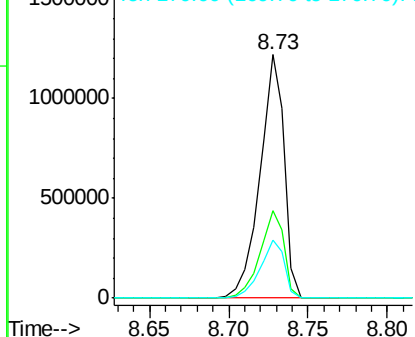


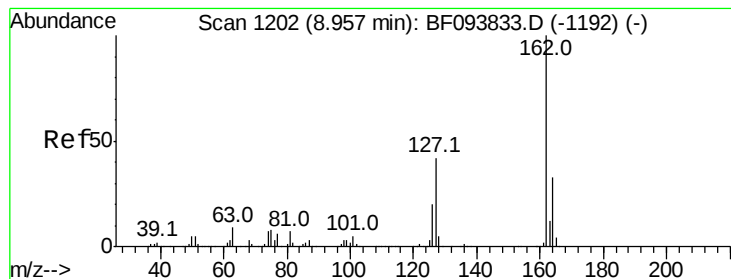
#44
 2-Fluorobiphenyl
 Concen: 83.95 ng
 RT: 8.73 min Scan# 1163
 Delta R.T. -0.01 min
 Lab File: BF094109.D
 Acq: 31 Mar 2017 21:15

Tgt Ion:172 Resp: 1298671
 Ion Ratio Lower Upper
 172 100
 171 35.9 29.6 44.4
 170 23.7 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





#46

2-Chloronaphthalene

Concen: 10.31 ng

RT: 9.00 min Scan# 1209

Delta R.T. 0.13 min

Lab File: BF094109.D

Acq: 31 Mar 2017 21:15

Instrument :

BNA_F

ClientSampleId :

E2-BB-8-9-ESW

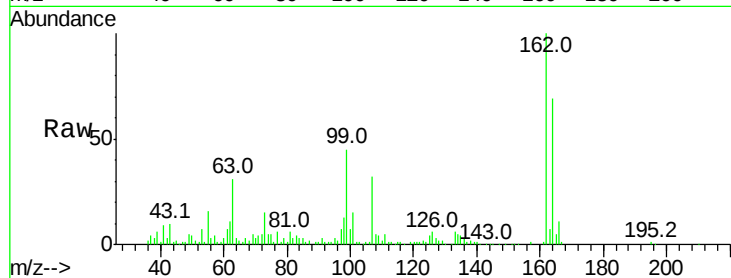
Tot Ion:162 Resp: 153659

Ion Ratio Lower Upper

162 100

127 3.3 28.3 42.5#

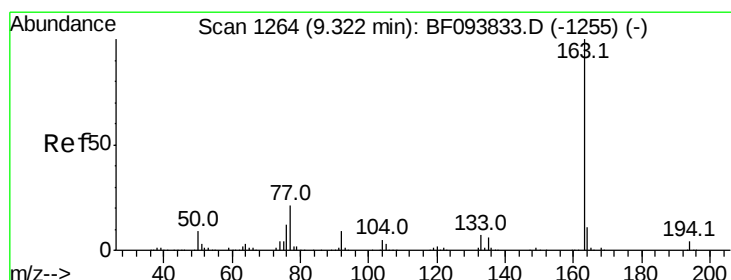
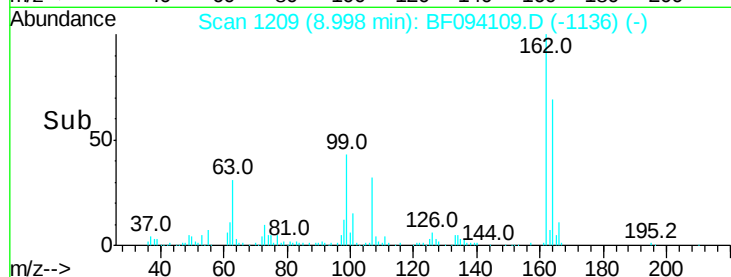
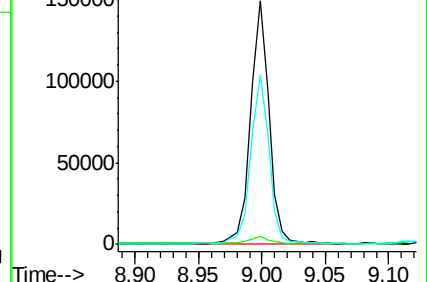
164 69.4 27.0 40.4#



Abundance Ion 162.00 (161.70 to 162.70): E

Ion 127.00 (126.70 to 127.70): E

Ion 164.00 (163.70 to 164.70): E



#49

Dimethylphthalate

Concen: 4.95 ng

RT: 9.22 min Scan# 1247

Delta R.T. -0.02 min

Lab File: BF094109.D

Acq: 31 Mar 2017 21:15

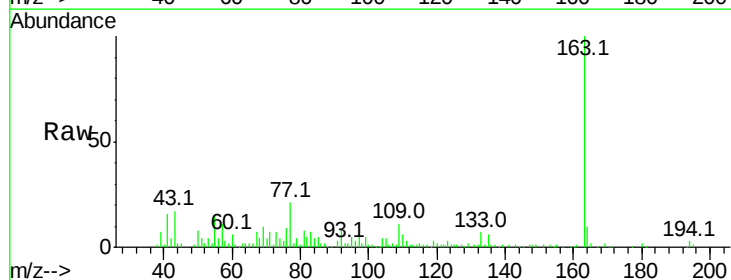
Tgt Ion:163 Resp: 83049

Ion Ratio Lower Upper

163 100

194 3.4 2.6 4.0

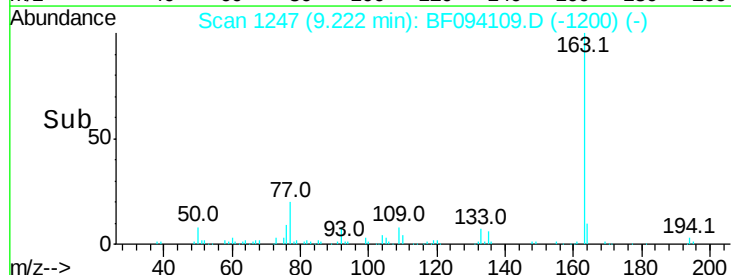
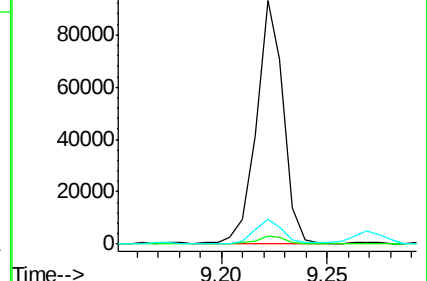
164 10.4 8.4 12.6

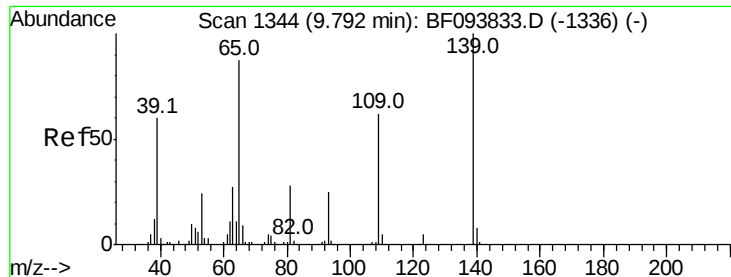


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

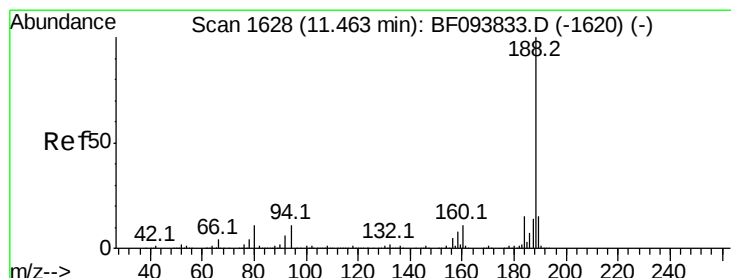
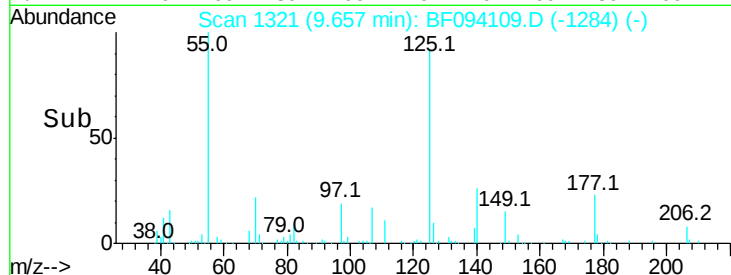
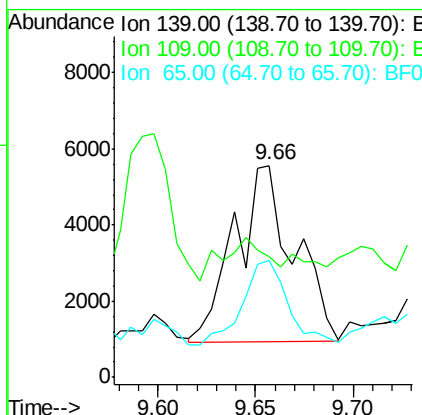
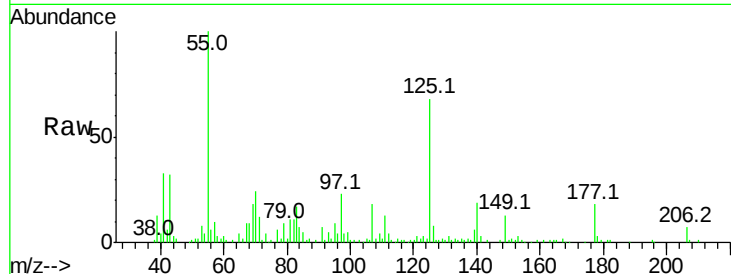




#55
4-Nitrophenol
Concen: 2.76 ng
RT: 9.66 min Scan# 1321
Delta R.T. -0.08 min
Lab File: BF094109.D
Acq: 31 Mar 2017 21:15

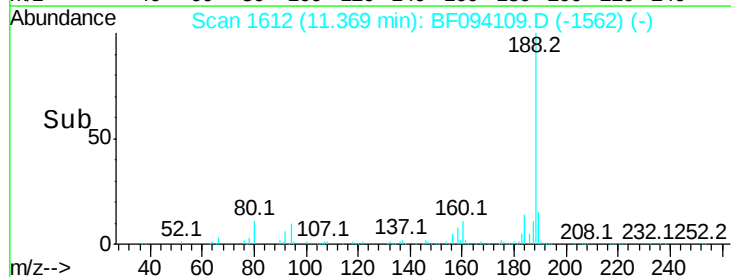
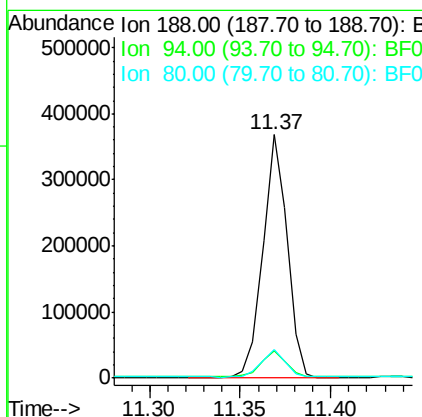
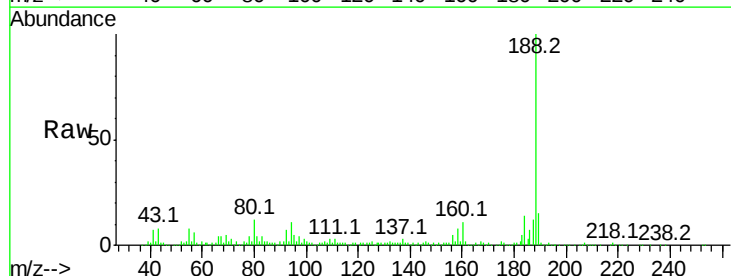
Instrument :
BNA_F
ClientSampleId :
E2-BB-8-9-ESW

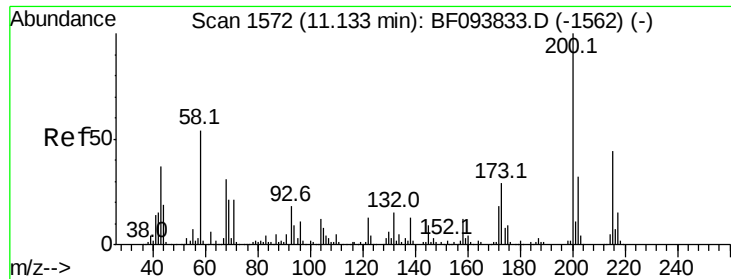
Tot Ion:139 Resp: 9776
Ion Ratio Lower Upper
139 100
109 57.0 34.1 74.1
65 55.1 31.4 71.4



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.37 min Scan# 1612
Delta R.T. -0.01 min
Lab File: BF094109.D
Acq: 31 Mar 2017 21:15

Tgt Ion:188 Resp: 346324
Ion Ratio Lower Upper
188 100
94 11.1 9.4 14.2
80 11.8 10.2 15.2

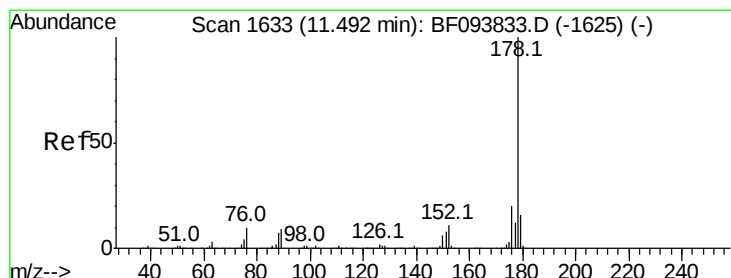
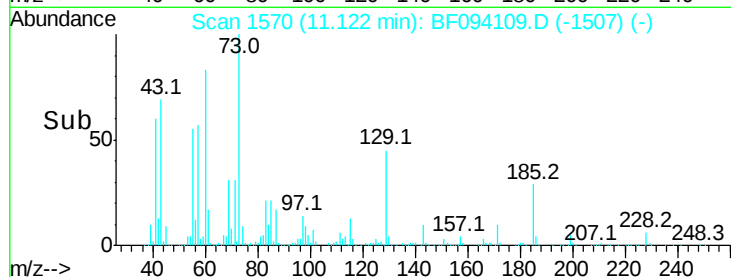
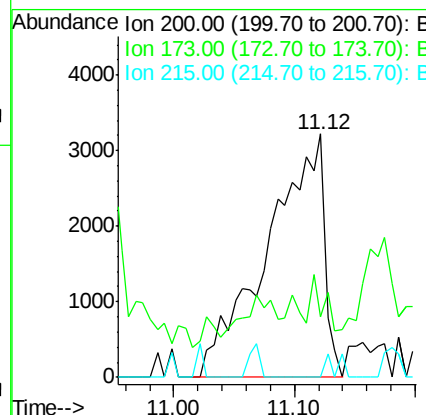
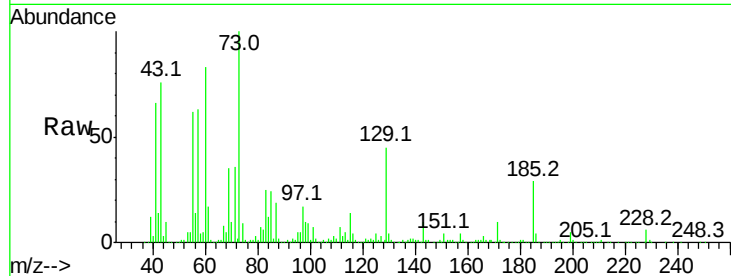




#68
Atrazine
Concen: 2.92 ng
RT: 11.12 min Scan# 1570
Delta R.T. 0.07 min
Lab File: BF094109.D
Acq: 31 Mar 2017 21:15

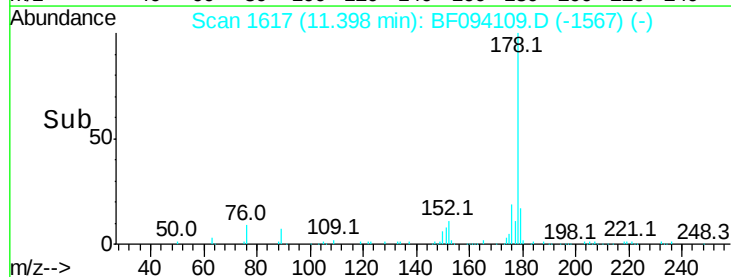
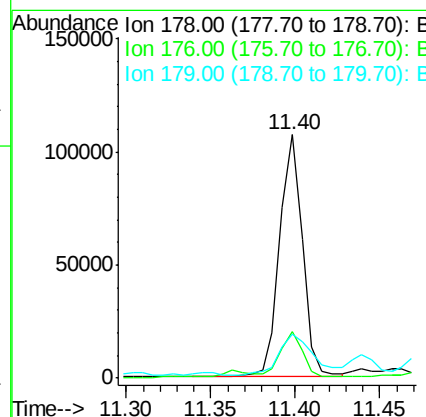
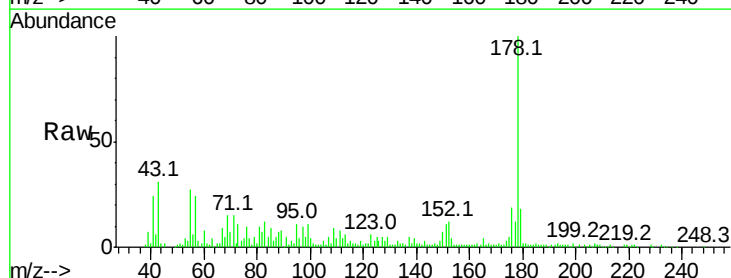
Instrument :
BNA_F
ClientSampleId :
E2-BB-8-9-ESW

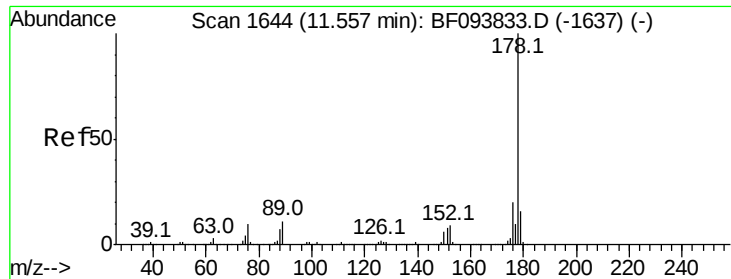
Tot Ion:200 Resp: 10492
Ion Ratio Lower Upper
200 100
173 24.7 6.3 46.3
215 0.0 27.2 67.2#



#70
Phenanthrene
Concen: 5.25 ng
RT: 11.40 min Scan# 1617
Delta R.T. -0.01 min
Lab File: BF094109.D
Acq: 31 Mar 2017 21:15

Tgt Ion:178 Resp: 101076
Ion Ratio Lower Upper
178 100
176 18.9 16.2 24.4
179 17.8 12.6 19.0

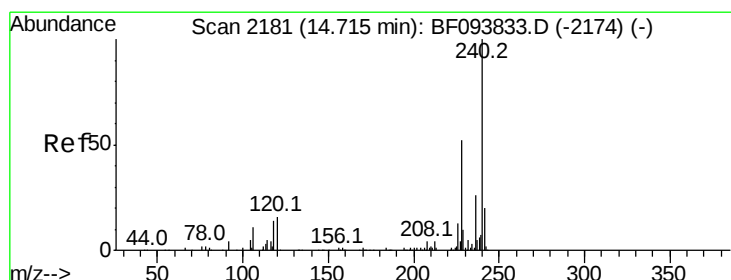
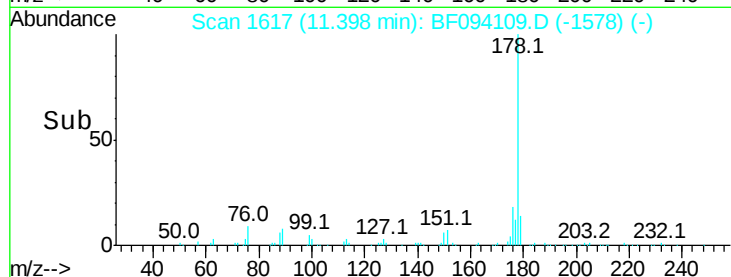
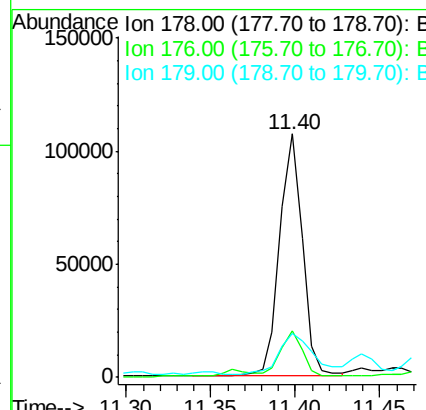
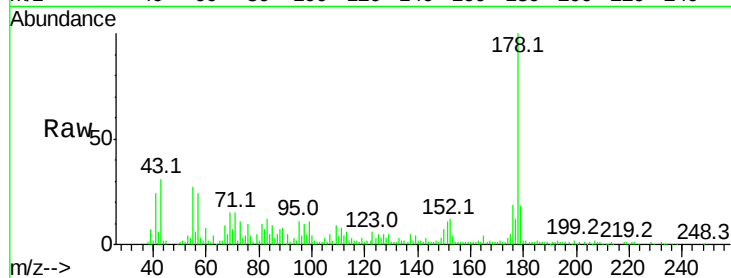




#71
 Anthracene
 Concen: 5.10 ng
 RT: 11.40 min Scan# 1617
 Delta R.T. -0.07 min
 Lab File: BF094109.D
 Acq: 31 Mar 2017 21:15

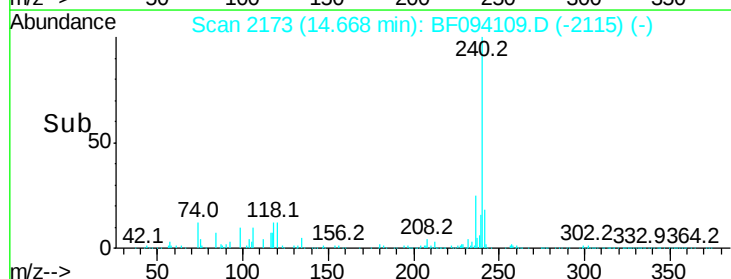
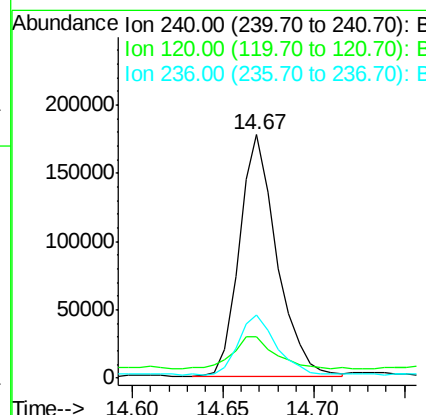
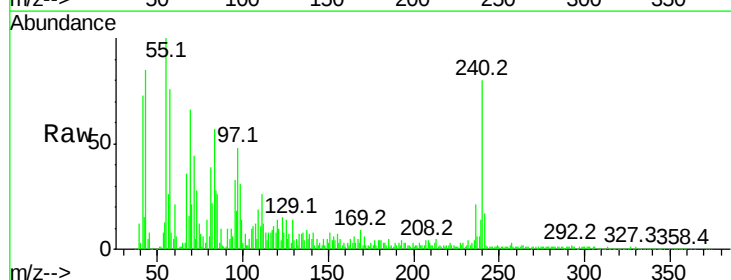
Instrument :
 BNA_F
 ClientSampleId :
 E2-BB-8-9-ESW

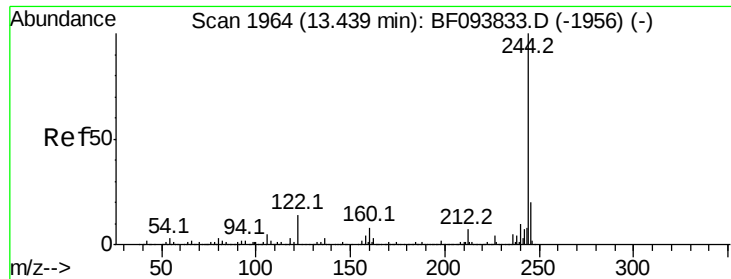
Tot Ion:178 Resp: 101076
 Ion Ratio Lower Upper
 178 100
 176 18.9 15.8 23.8
 179 17.8 12.7 19.1



#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 14.67 min Scan# 2173
 Delta R.T. 0.04 min
 Lab File: BF094109.D
 Acq: 31 Mar 2017 21:15

Tgt Ion:240 Resp: 252122
 Ion Ratio Lower Upper
 240 100
 120 17.1 5.8 8.8#
 236 25.9 20.5 30.7





#78

Terphenyl-d14

Concen: 52.27 ng

RT: 13.38 min Scan# 1954

Delta R.T. 0.03 min

Lab File: BF094109.D

Acq: 31 Mar 2017 21:15

Instrument :

BNA_F

ClientSampleId :

E2-BB-8-9-ESW

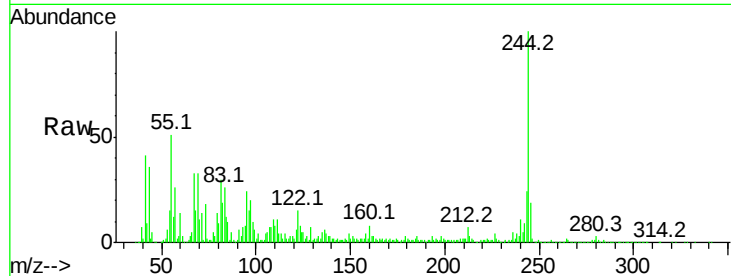
Tot Ion:244 Resp: 587931

Ion Ratio Lower Upper

244 100

212 6.9 6.0 9.0

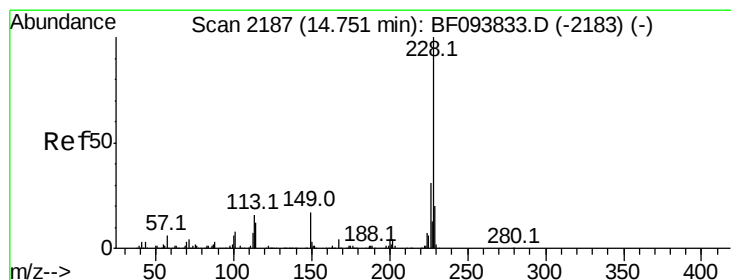
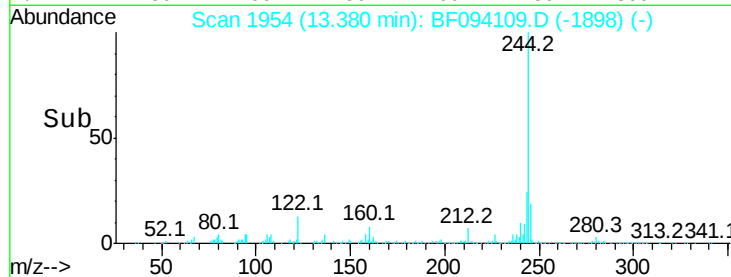
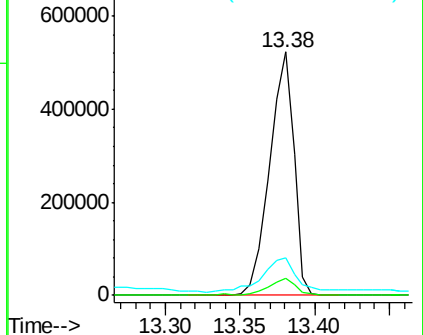
122 15.4 10.3 15.5



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



#82

Chrysene

Concen: 2.26 ng

RT: 14.70 min Scan# 2178

Delta R.T. 0.04 min

Lab File: BF094109.D

Acq: 31 Mar 2017 21:15

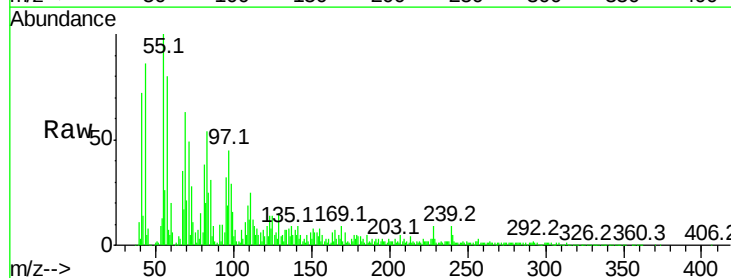
Tgt Ion:228 Resp: 30891

Ion Ratio Lower Upper

228 100

226 36.4 24.9 37.3

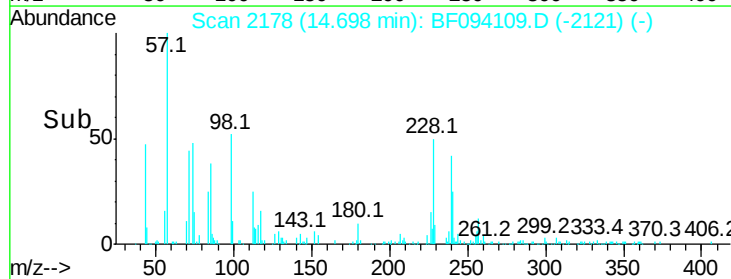
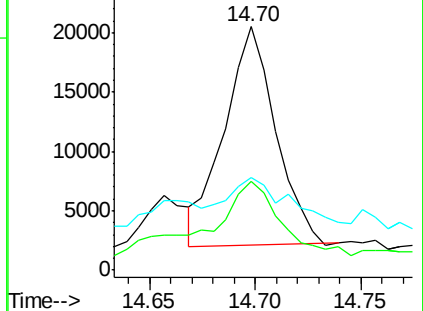
229 38.1 15.8 23.6#

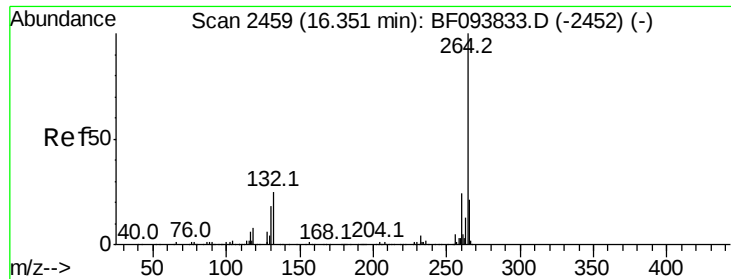


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

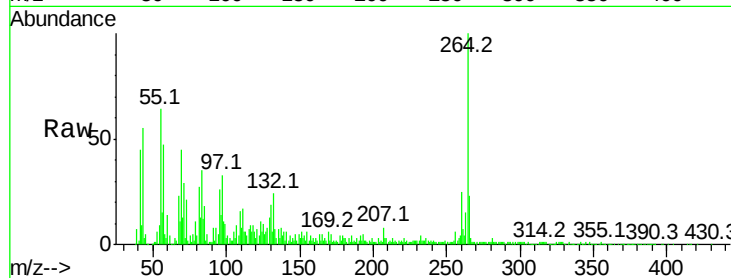




#86
 Pervlene-d12
 Concen: 20.00 ng
 RT: 16.30 min Scan# 2450
 Delta R.T. 0.05 min
 Lab File: BF094109.D
 Acq: 31 Mar 2017 21:15

Instrument :
 BNA_F
 ClientSampleId :
 E2-BB-8-9-ESW

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.7	19.5	29.3
265	23.0	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

