

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF120616\
 Data File : BF091454.D
 Acq On : 6 Dec 2016 12:56
 Operator : UM/SJ
 Sample : H5825-03RE
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 S120116SF-S-3

Quant Time: Dec 06 23:58:57 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF112916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 29 13:33:46 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.84	152	134972	20.00	ng	-0.04
21) Naphthalene-d8	8.13	136	543721	20.00	ng	-0.04
38) Acenaphthene-d10	9.91	164	224537	20.00	ng	0.00
63) Phenanthrene-d10	11.40	188	262538	20.00	ng	0.00
75) Chrysene-d12	14.00	240	311488	20.00	ng	-0.04
86) Perylene-d12	15.42	264	369921	20.00	ng	-0.05

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.44	112	801184	96.97	ng	-0.03
7) Phenol-d6	6.48	99	1191616	117.16	ng	-0.02
23) Nitrobenzene-d5	7.41	82	739906	76.26	ng	-0.04
41) 2,4,6-Tribromophenol	10.70	330	184898	86.98	ng	0.00
44) 2-Fluorobiphenyl	9.21	172	982426	79.22	ng	-0.03
78) Terphenyl-d14	12.97	244	742865	51.84	ng	-0.02

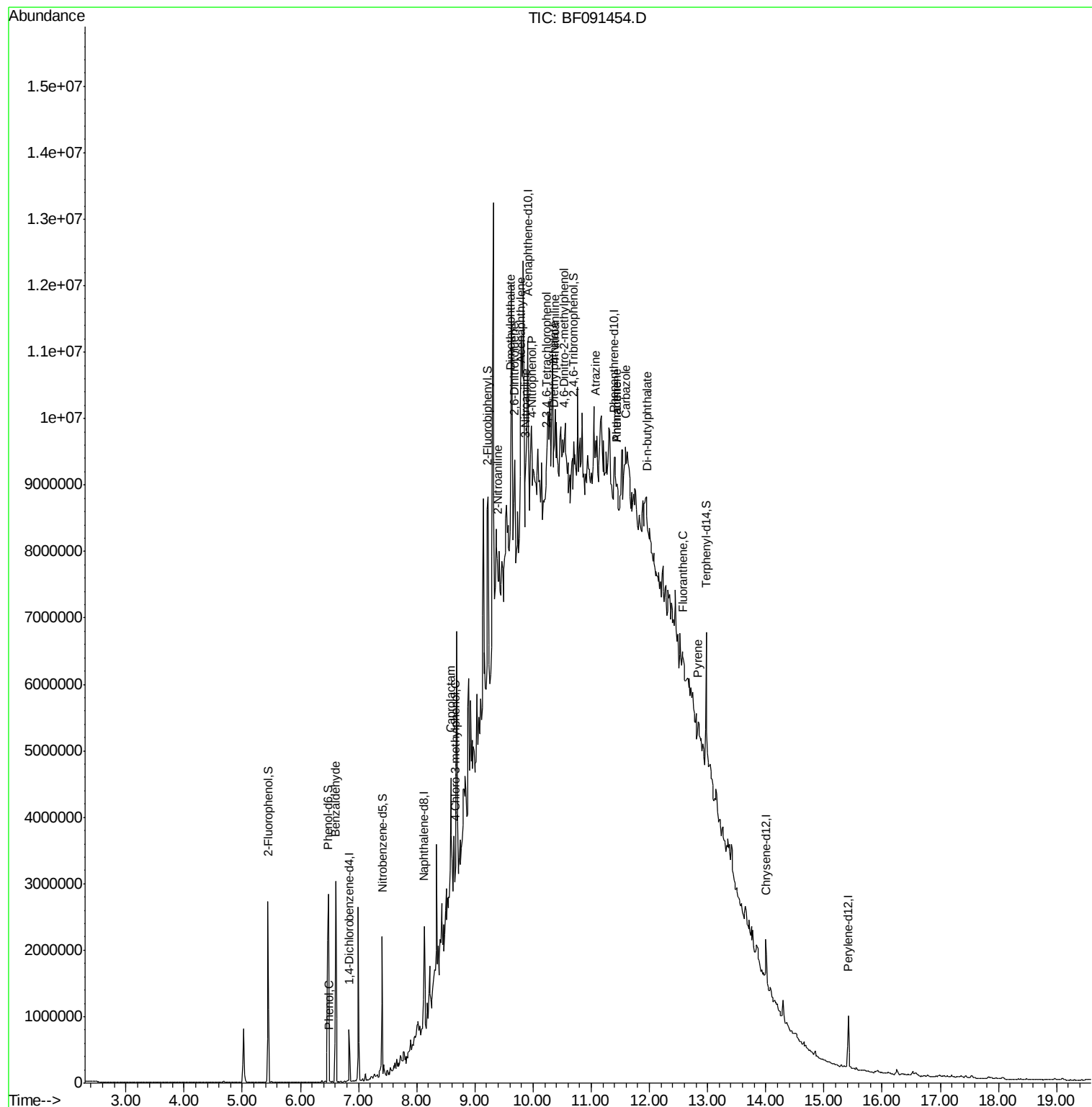
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.61	77	20152	3.08	ng	87
10) Phenol	6.49	94	44074	3.68	ng	80
35) Caprolactam	8.58	113	12424	5.80	ng	# 1
36) 4-Chloro-3-methylphenol	8.66	107	50381	6.26	ng	# 24
47) 2-Nitroaniline	9.38	65	9397	2.18	ng	# 63
48) Acenaphthylene	9.78	152	55321	2.92	ng	# 1
49) Dimethylphthalate	9.61	163	157985	11.62	ng	# 58
50) 2,6-Dinitrotoluene	9.68	165	70108	23.07	ng	# 23
52) 3-Nitroaniline	9.86	138	90267	25.66	ng	# 17
55) 4-Nitrophenol	9.98	139	20452	8.05	ng	# 1
58) 2,3,4,6-Tetrachlorophenol	10.23	232	9894	2.81	ng	# 1
59) Diethylphthalate	10.36	149	29782	2.22	ng	# 1
61) 4-Nitroaniline	10.38	138	77709	23.53	ng	89
64) 4,6-Dinitro-2-methylphenol	10.53	198	3231	2.23	ng	# 1
68) Atrazine	11.08	200	25525	9.90	ng	# 1
70) Phenanthrene	11.43	178	68962	5.06	ng	# 1
71) Anthracene	11.43	178	68962	5.09	ng	# 1
72) Carbazole	11.60	167	84889	6.91	ng	# 1
73) Di-n-butylphthalate	11.96	149	39457	2.83	ng	# 19
74) Fluoranthene	12.57	202	32038	2.48	ng	# 1
77) Pyrene	12.84	202	54203	2.29	ng	# 45

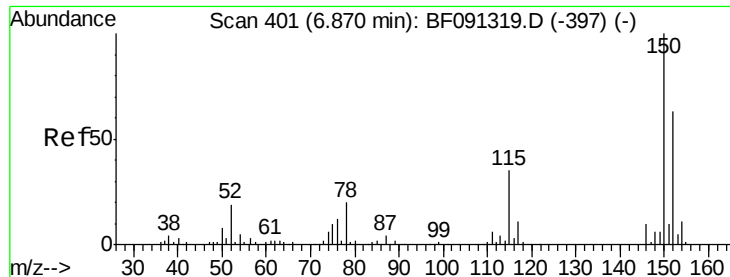
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.84 min Scan# 398

Delta R.T. -0.04 min

Lab File: BF091454.D

Acq: 6 Dec 2016 12:56

Instrument :

BNA_F

ClientSampleId :

S120116SF-S-3

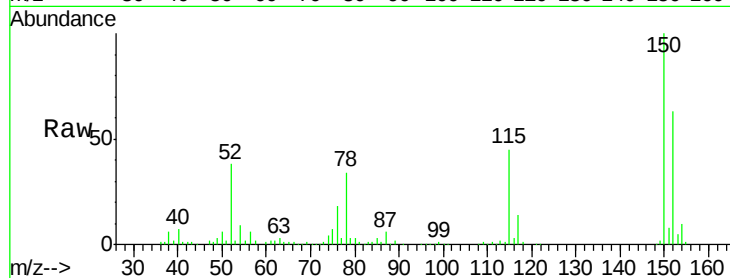
Tgt Ion:152 Resp: 134972

Ion Ratio Lower Upper

152 100

150 159.6 122.5 183.7

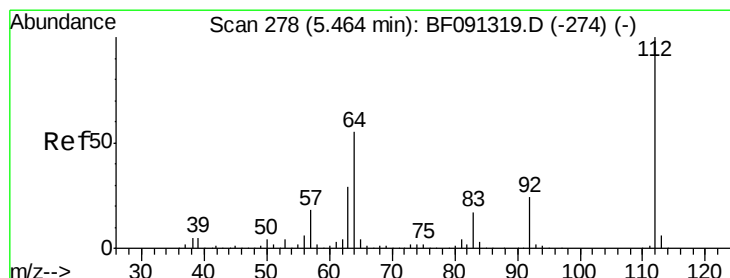
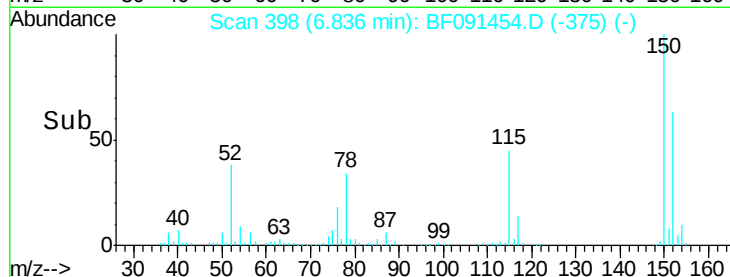
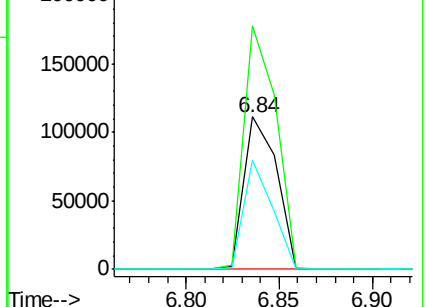
115 71.2 51.8 77.8



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: 96.97 ng

RT: 5.44 min Scan# 276

Delta R.T. -0.03 min

Lab File: BF091454.D

Acq: 6 Dec 2016 12:56

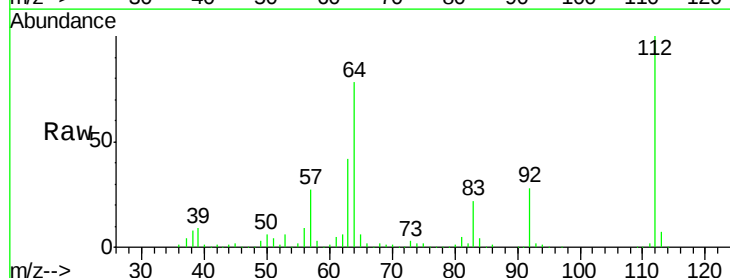
Tgt Ion:112 Resp: 801184

Ion Ratio Lower Upper

112 100

64 78.0 61.5 92.3

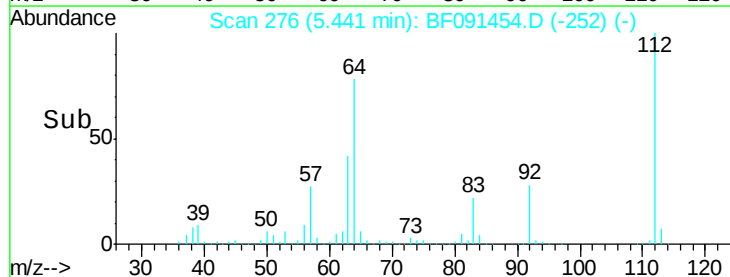
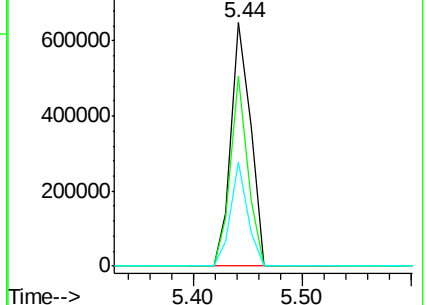
63 42.5 33.3 49.9

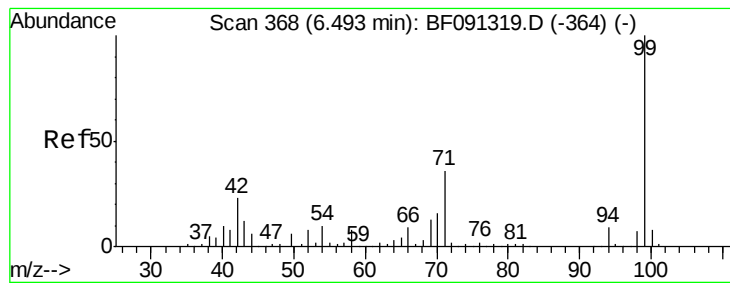


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 117.16 ng

RT: 6.48 min Scan# 367

Delta R.T. -0.02 min

Lab File: BF091454.D

Acq: 6 Dec 2016 12:56

Instrument :

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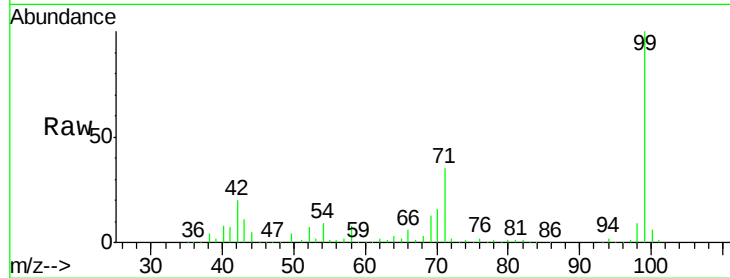
Tgt Ion: 99 Resp: 1191616

Ion Ratio Lower Upper

99 100

42 20.3 20.6 31.0#

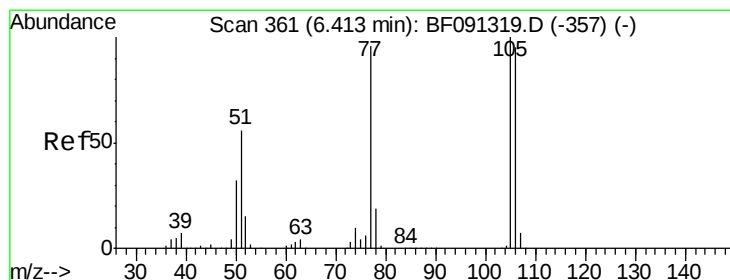
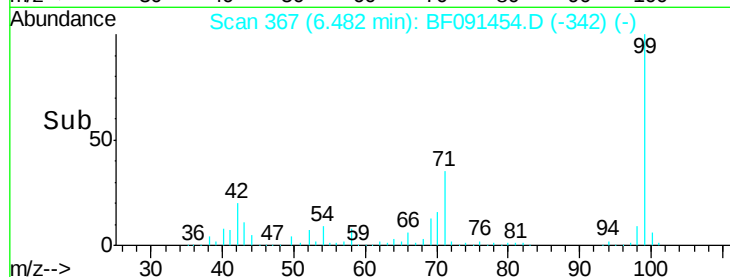
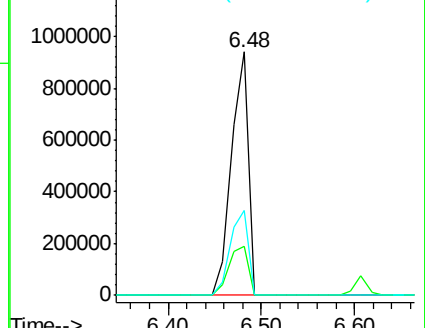
71 34.6 29.9 44.9



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: 3.08 ng

RT: 6.61 min Scan# 378

Delta R.T. 0.19 min

Lab File: BF091454.D

Acq: 6 Dec 2016 12:56

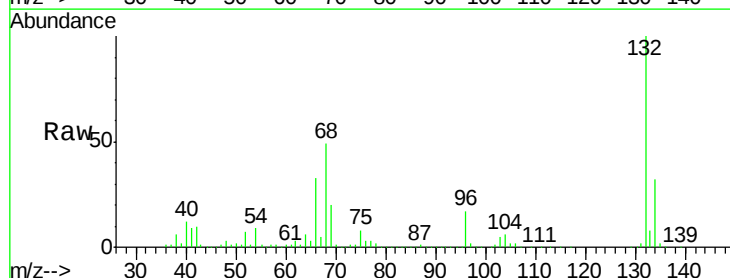
Tgt Ion: 77 Resp: 20152

Ion Ratio Lower Upper

77 100

105 76.4 66.4 106.4

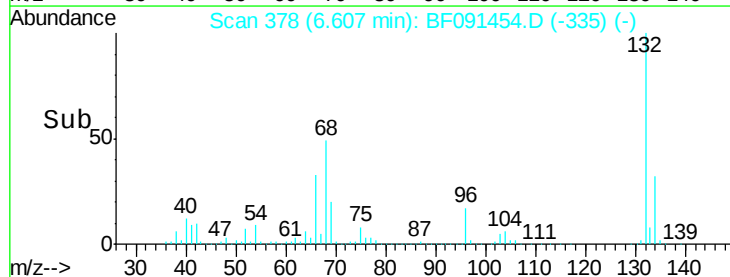
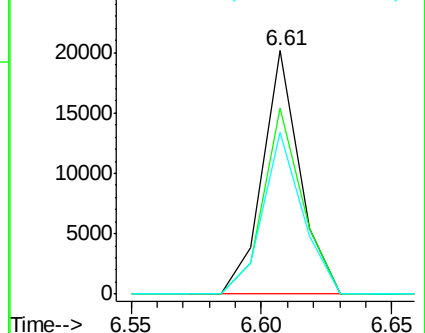
106 66.6 60.9 100.9

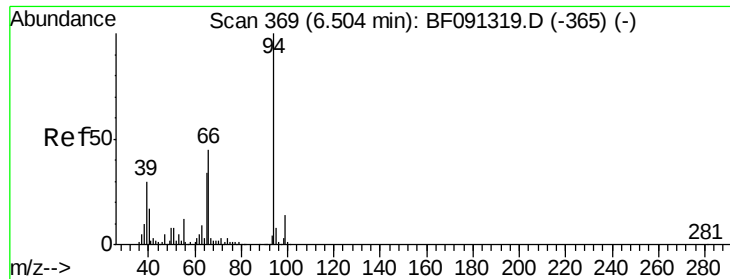


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E





#10

Phenol

Concen: 3.68 ng

RT: 6.49 min Scan# 368

Delta R.T. -0.03 min

Lab File: BF091454.D

Acq: 6 Dec 2016 12:56

Instrument :

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S120116SF-S-3

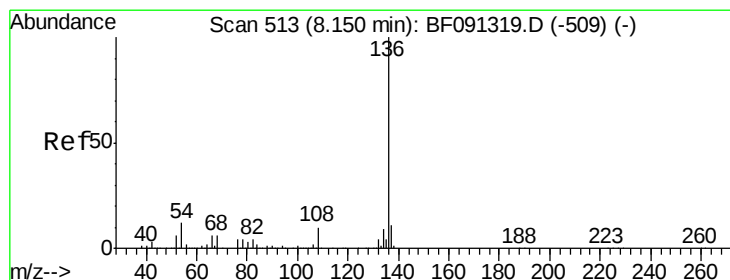
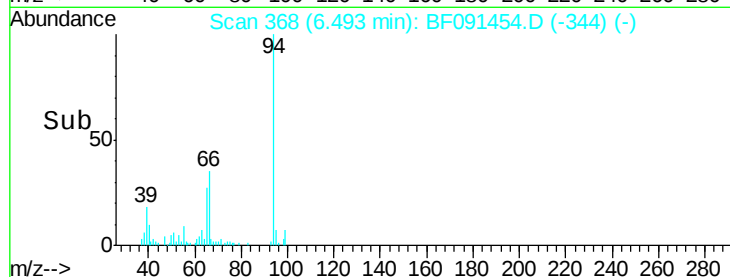
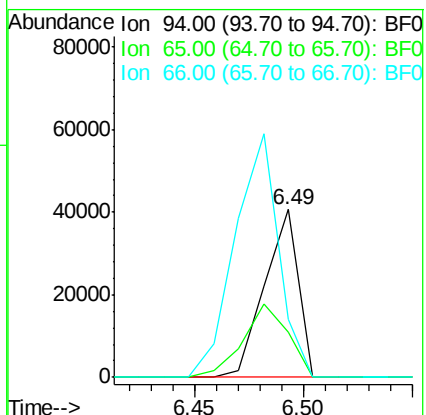
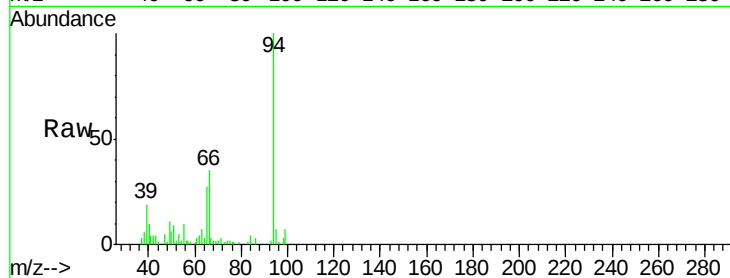
Tgt Ion: 94 Resp: 44074

Ion Ratio Lower Upper

94 100

65 27.3 16.9 56.9

66 34.7 30.6 70.6



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.13 min Scan# 511

Delta R.T. -0.04 min

Lab File: BF091454.D

Acq: 6 Dec 2016 12:56

Tgt Ion: 136 Resp: 543721

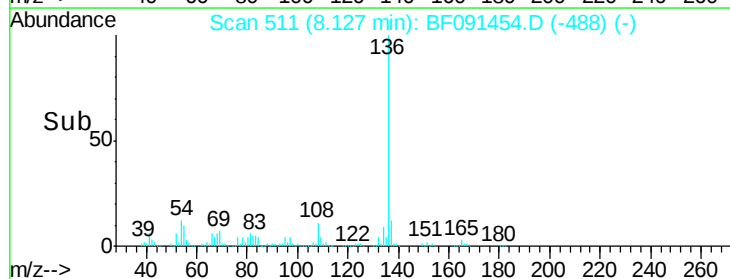
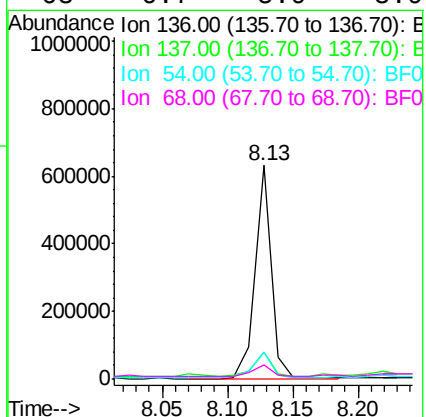
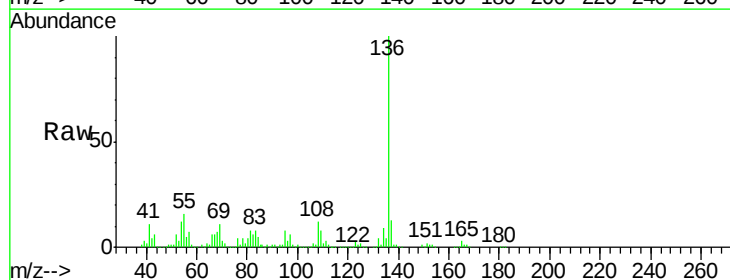
Ion Ratio Lower Upper

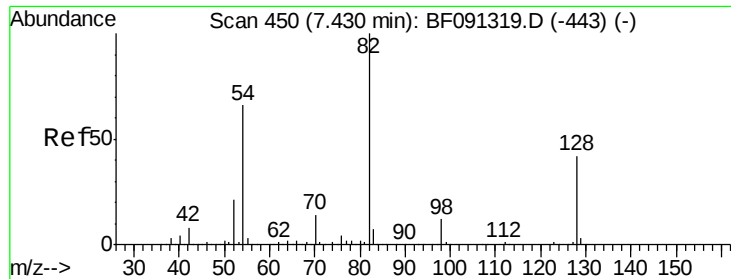
136 100

137 12.8 9.1 13.7

54 12.3 9.1 13.7

68 6.7 5.9 8.9

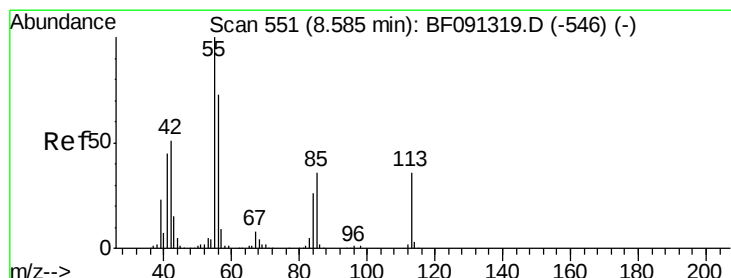
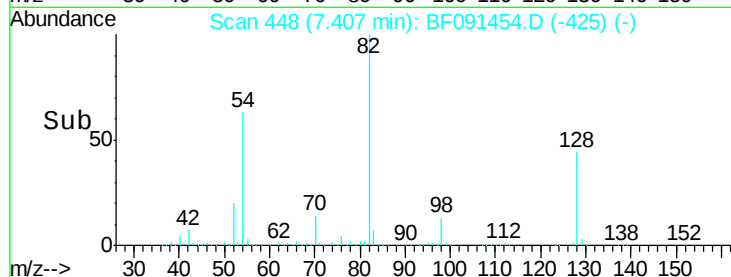
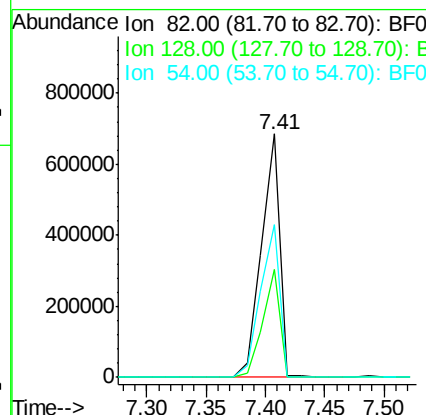
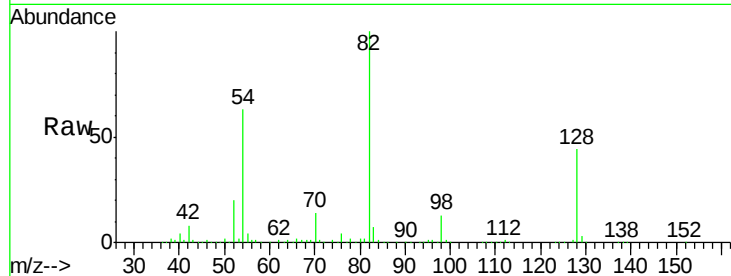




#23
 Nitrobenzene-d5
 Concen: 76.26 ng
 RT: 7.41 min Scan# 448
 Delta R.T. -0.04 min
 Lab File: BF091454.D
 Acq: 6 Dec 2016 12:56

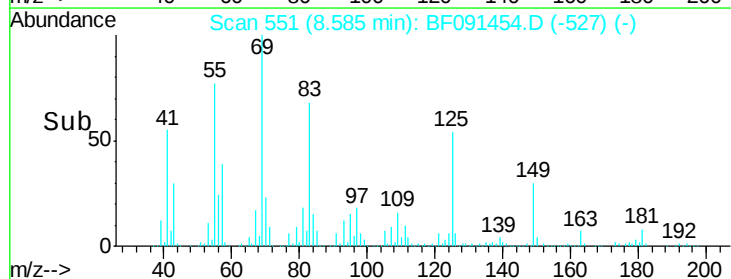
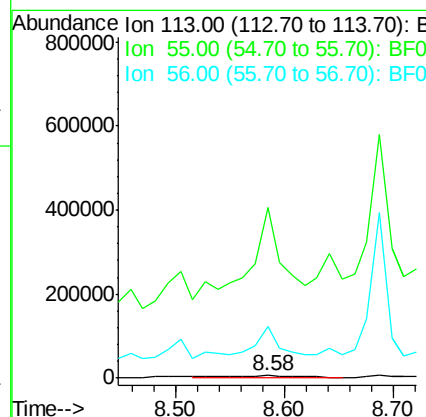
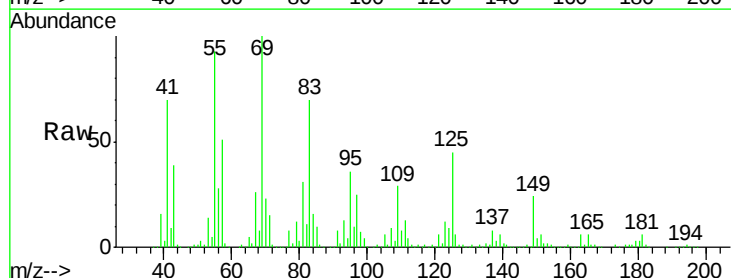
Instrument :
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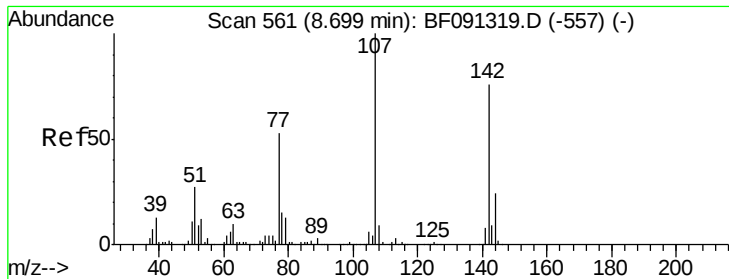
Tgt Ion: 82 Resp: 739906
 Ion Ratio Lower Upper
 82 100
 128 44.3 31.8 47.6
 54 62.8 49.1 73.7



#35
 Caprolactam
 Concen: 5.80 ng
 RT: 8.58 min Scan# 551
 Delta R.T. -0.03 min
 Lab File: BF091454.D
 Acq: 6 Dec 2016 12:56

Tgt Ion: 113 Resp: 12424
 Ion Ratio Lower Upper
 113 100
 55 7179.9 239.8 279.8#
 56 2158.2 165.6 205.6#





#36

4-Chloro-3-methylphenol

Concen: 6.26 ng

RT: 8.66 min Scan# 558

Delta R.T. -0.05 min

Lab File: BF091454.D

Acq: 6 Dec 2016 12:56

Instrument :

BNA_F

ClientSampleId :

S120116SF-S-3

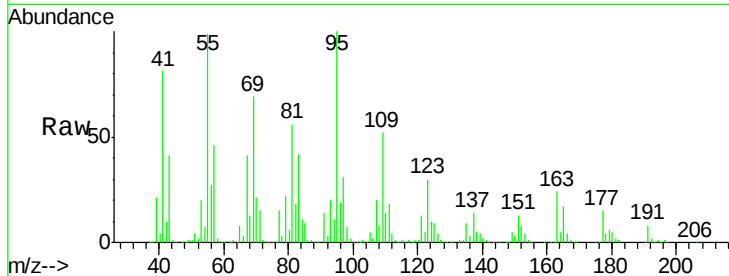
Tgt Ion:107 Resp: 50381

Ion Ratio Lower Upper

107 100

144 0.7 18.9 28.3#

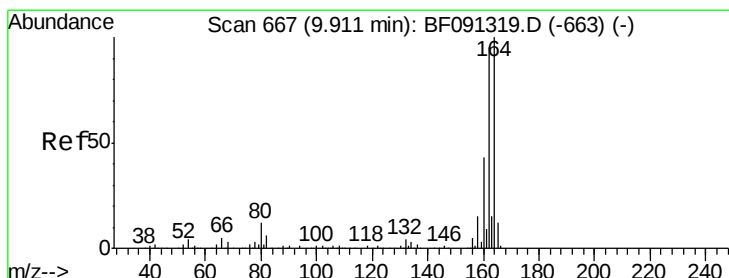
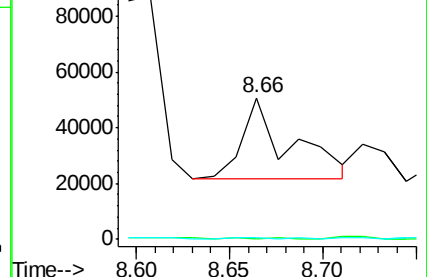
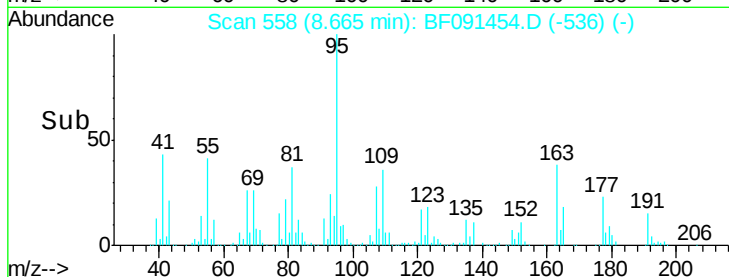
142 1.0 58.5 87.7#



Abundance Ion 107.00 (106.70 to 107.70): E

Ion 144.00 (143.70 to 144.70): E

Ion 142.00 (141.70 to 142.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.91 min Scan# 667

Delta R.T. -0.01 min

Lab File: BF091454.D

Acq: 6 Dec 2016 12:56

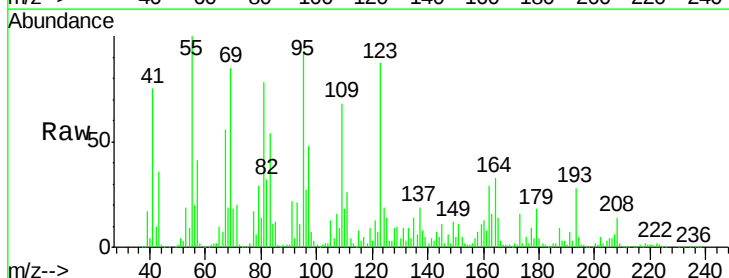
Tgt Ion:164 Resp: 224537

Ion Ratio Lower Upper

164 100

162 86.8 82.6 124.0

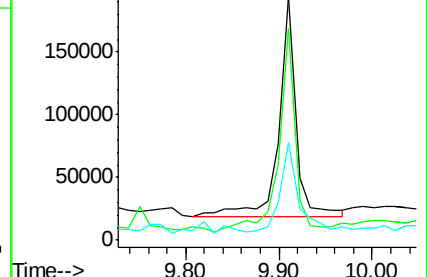
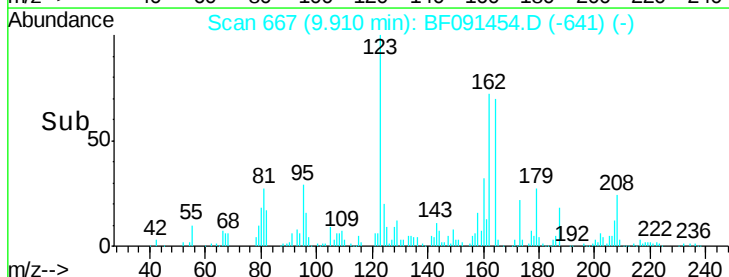
160 40.3 36.7 55.1

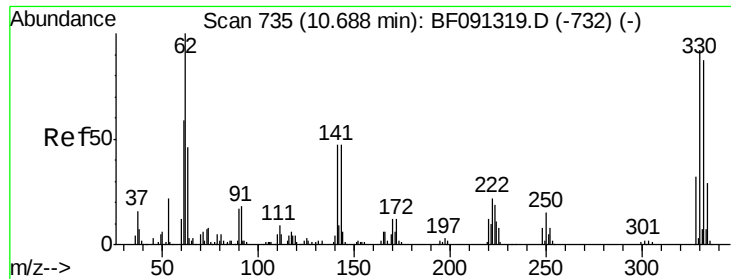


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

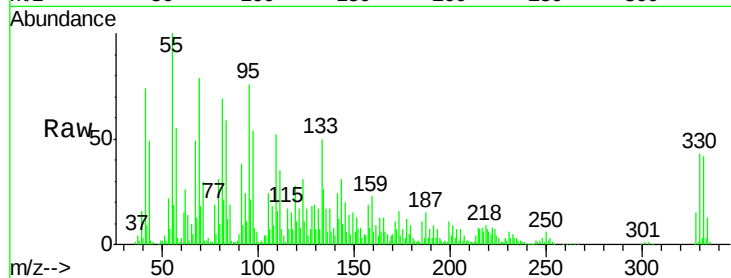




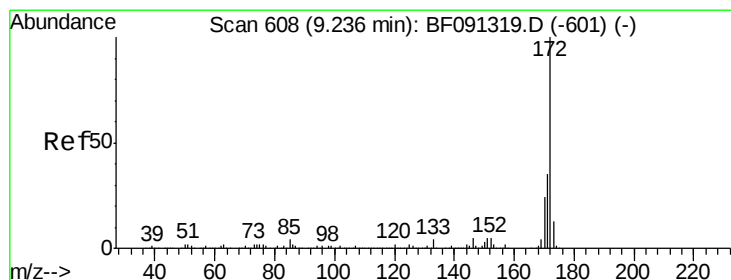
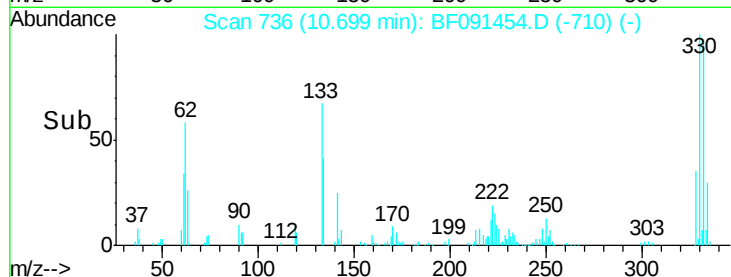
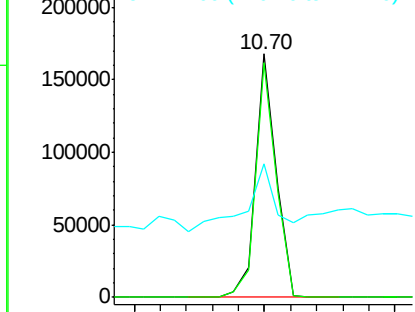
#41
 2,4,6-Tribromophenol
 Concen: 86.98 ng
 RT: 10.70 min Scan# 736
 Delta R.T. -0.01 min
 Lab File: BF091454.D
 Acq: 6 Dec 2016 12:56

Instrument :
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Tgt Ion:330 Resp: 184898
 Ion Ratio Lower Upper
 330 100
 332 95.9 76.2 114.4
 141 39.0 33.6 50.4

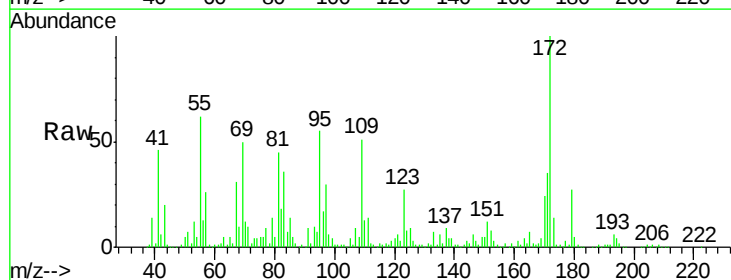


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

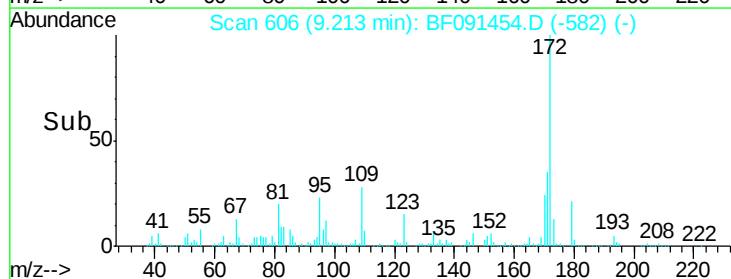
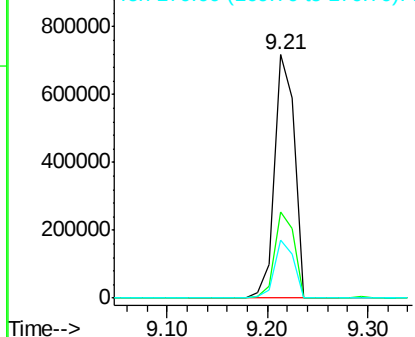


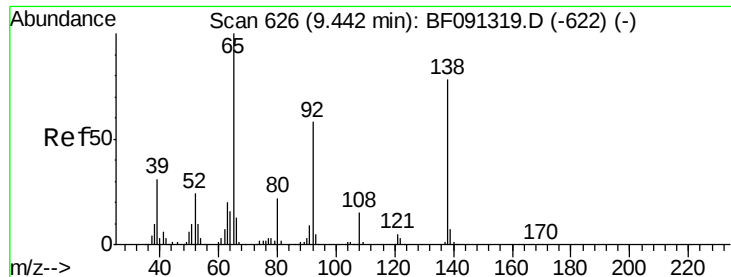
#44
 2-Fluorobiphenyl
 Concen: 79.22 ng
 RT: 9.21 min Scan# 606
 Delta R.T. -0.03 min
 Lab File: BF091454.D
 Acq: 6 Dec 2016 12:56

Tgt Ion:172 Resp: 982426
 Ion Ratio Lower Upper
 172 100
 171 35.2 29.4 44.0
 170 23.7 19.7 29.5



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

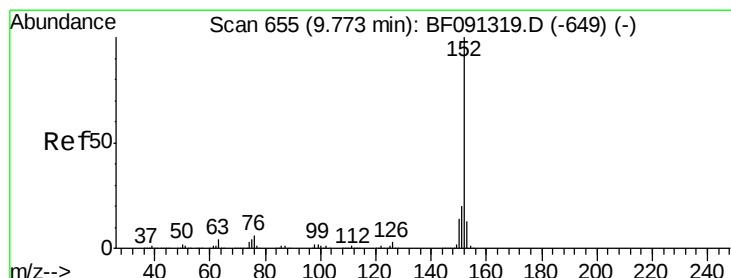
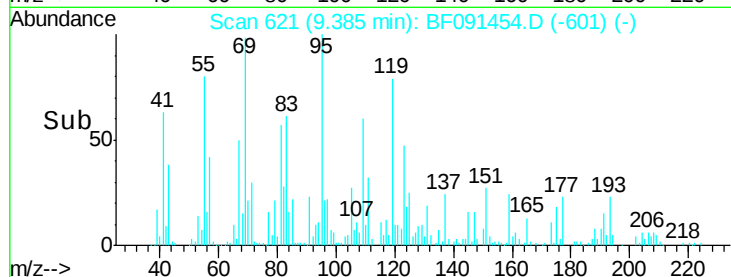
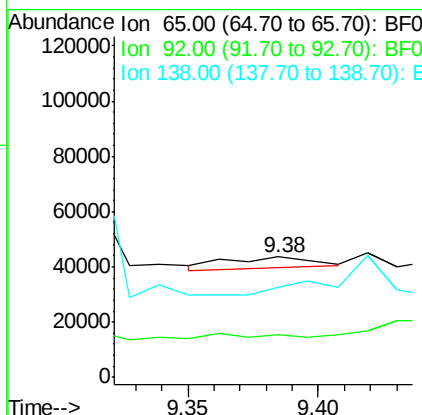
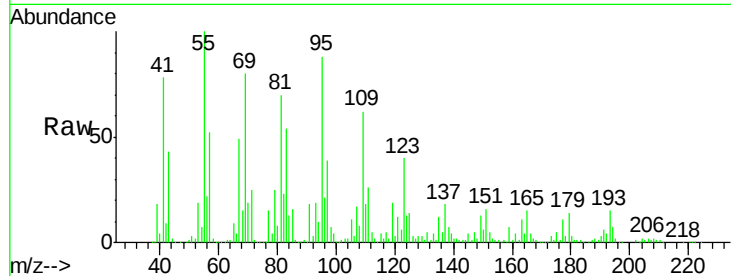




#47
2-Nitroaniline
Concen: 2.18 ng
RT: 9.38 min Scan# 621
Delta R.T. -0.07 min
Lab File: BF091454.D
Acq: 6 Dec 2016 12:56

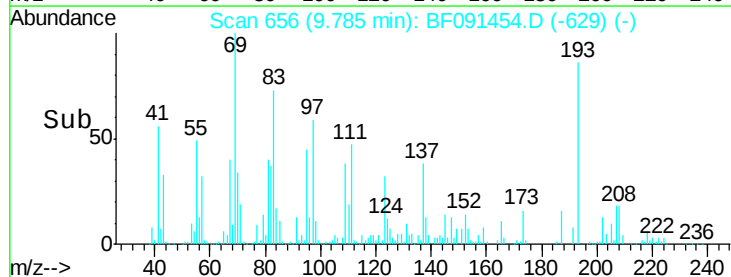
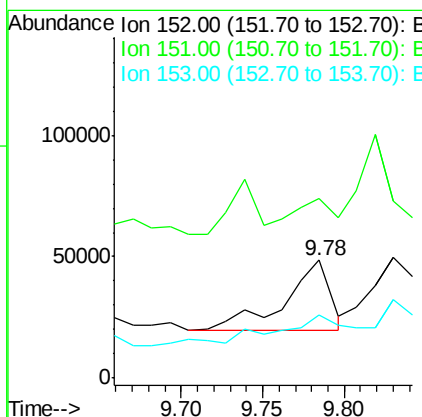
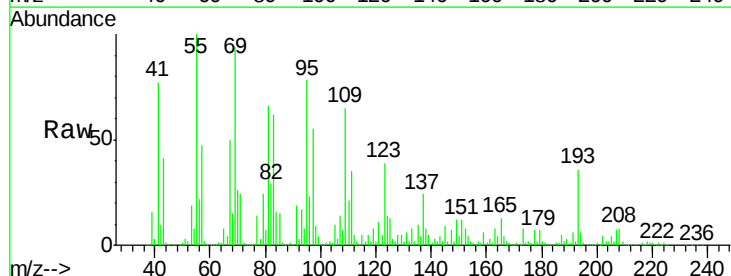
Instrument :
BNA_F
ClientSampleId :
S120116SF-S-3

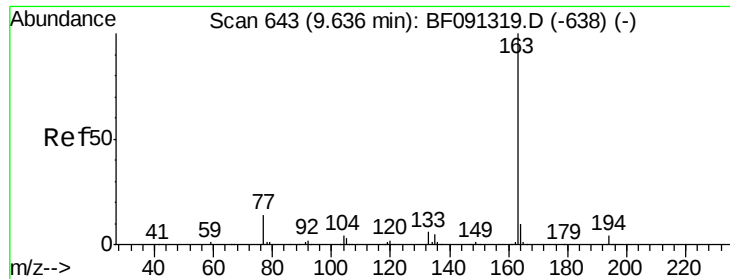
Tgt Ion: 65 Resp: 9397
Ion Ratio Lower Upper
65 100
92 35.9 53.6 80.4#
138 75.1 91.0 136.6#



#48
Acenaphthylene
Concen: 2.92 ng
RT: 9.78 min Scan# 656
Delta R.T. 0.01 min
Lab File: BF091454.D
Acq: 6 Dec 2016 12:56

Tgt Ion: 152 Resp: 55321
Ion Ratio Lower Upper
152 100
151 152.4 16.6 24.8#
153 53.8 10.7 16.1#

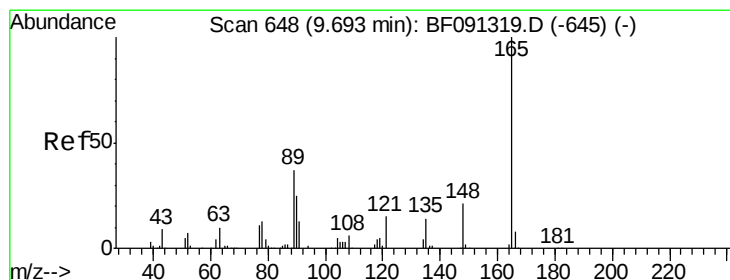
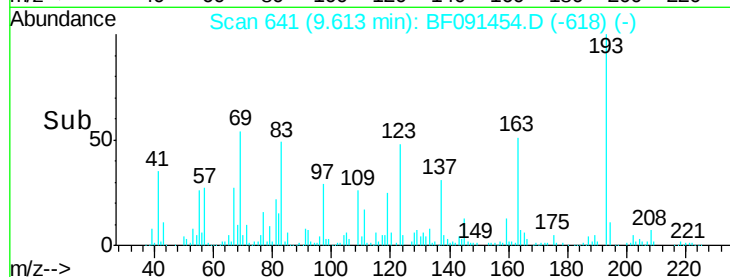
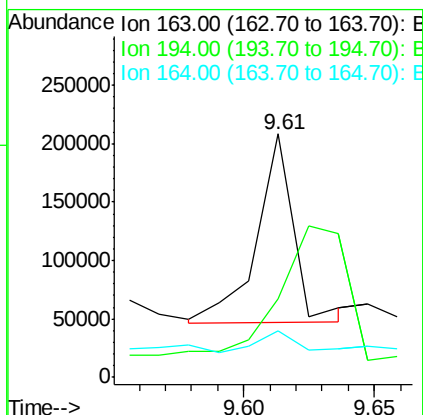
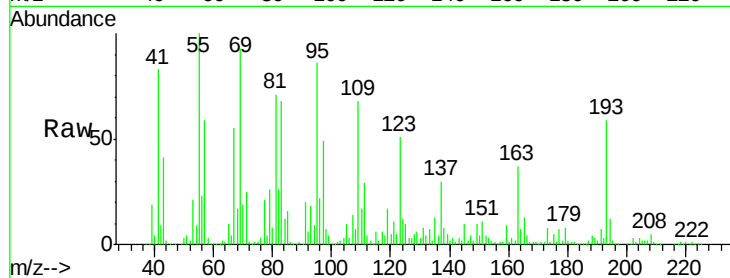




#49
Dimethylphthalate
Concen: 11.62 ng
RT: 9.61 min Scan# 641
Delta R.T. -0.04 min
Lab File: BF091454.D
Acq: 6 Dec 2016 12:56

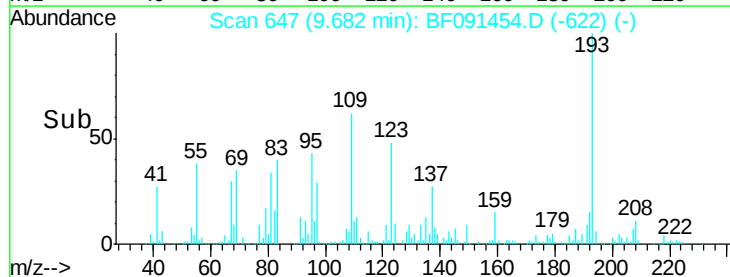
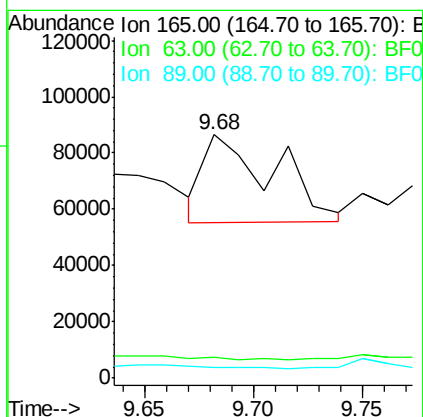
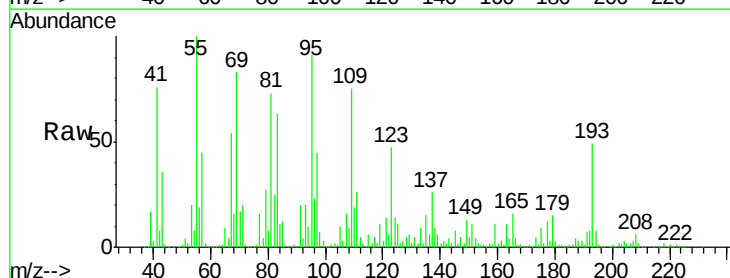
Instrument :
BNA_F
ClientSampleId :
S120116SF-S-3

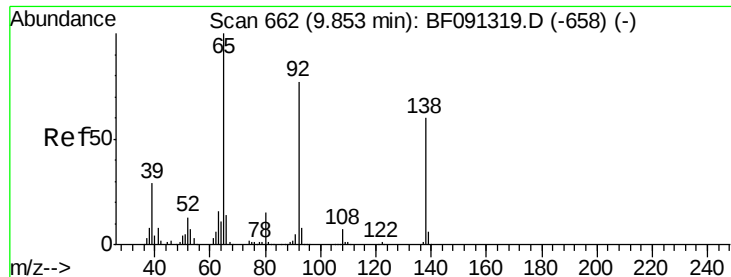
Tgt Ion:163 Resp: 157985
Ion Ratio Lower Upper
163 100
194 32.2 3.0 4.4#
164 19.2 7.8 11.8#



#50
2,6-Dinitrotoluene
Concen: 23.07 ng
RT: 9.68 min Scan# 647
Delta R.T. -0.02 min
Lab File: BF091454.D
Acq: 6 Dec 2016 12:56

Tgt Ion:165 Resp: 70108
Ion Ratio Lower Upper
165 100
63 8.6 59.4 89.0#
89 4.4 50.8 76.2#

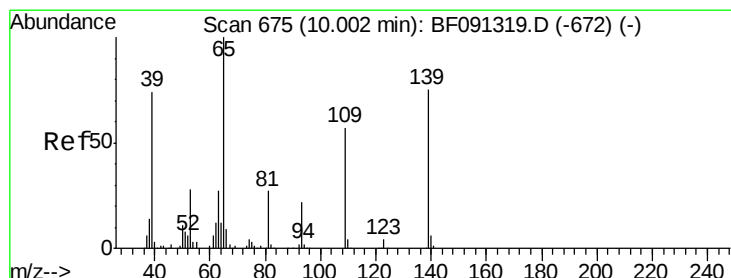
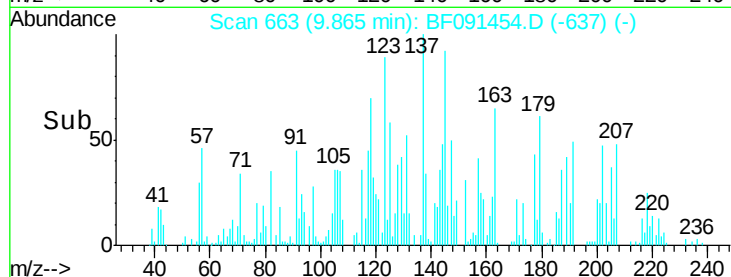
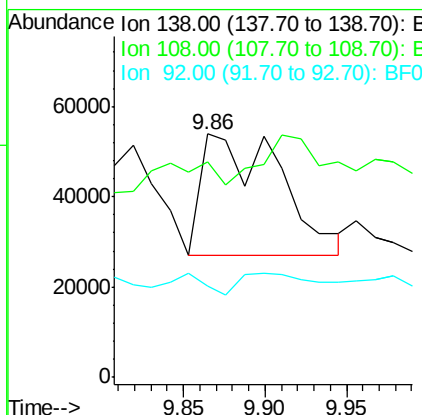
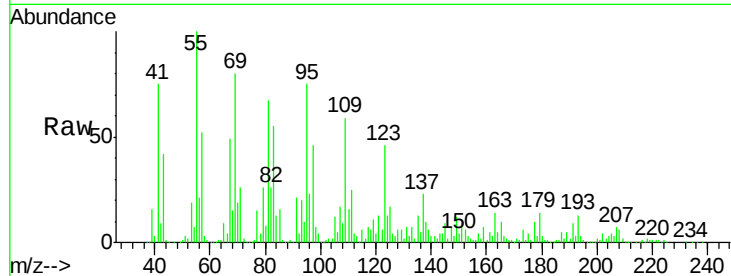




#52
 3-Nitroaniline
 Concen: 25.66 ng
 RT: 9.86 min Scan# 663
 Delta R.T. -0.01 min
 Lab File: BF091454.D
 Acq: 6 Dec 2016 12:56

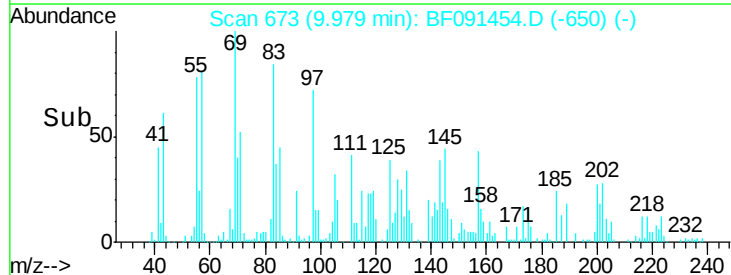
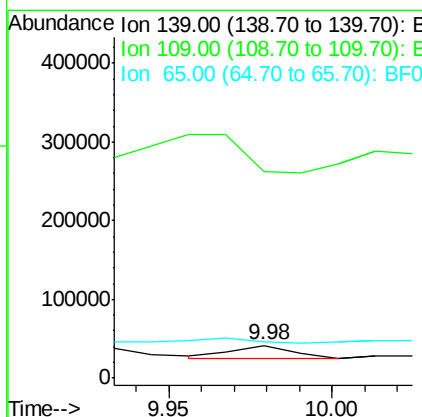
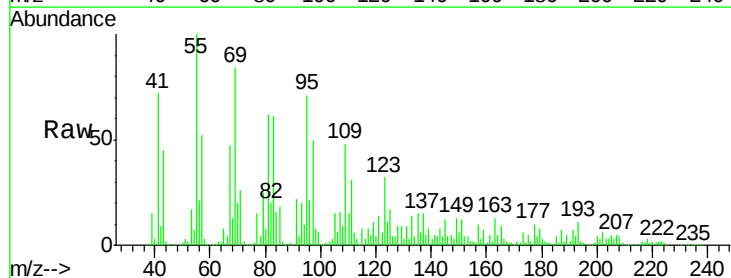
Instrument :
 BNA_F
 ClientSampleId :
 S120116SF-S-3

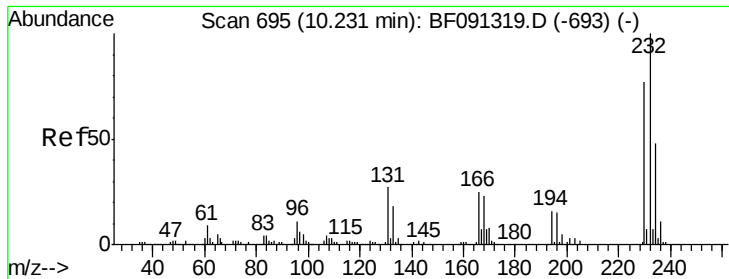
Tgt Ion:138 Resp: 90267
 Ion Ratio Lower Upper
 138 100
 108 88.7 8.1 12.1#
 92 37.6 92.5 138.7#



#55
 4-Nitrophenol
 Concen: 8.05 ng
 RT: 9.98 min Scan# 673
 Delta R.T. -0.04 min
 Lab File: BF091454.D
 Acq: 6 Dec 2016 12:56

Tgt Ion:139 Resp: 20452
 Ion Ratio Lower Upper
 139 100
 109 627.6 54.9 94.9#
 65 110.8 102.2 142.2





#58

2,3,4,6-Tetrachlorophenol

Concen: 2.81 ng

RT: 10.23 min Scan# 695

Delta R.T. -0.01 min

Lab File: BF091454.D

Acq: 6 Dec 2016 12:56

Instrument :

BNA_F

ClientSampleId :

S120116SF-S-3

Tgt Ion:232 Resp: 9894

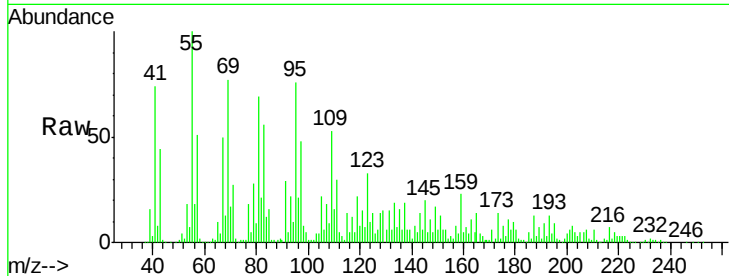
Ion Ratio Lower Upper

232 100

131 169.3 38.4 57.6#

130 0.0 1.8 2.8#

166 0.0 23.9 35.9#

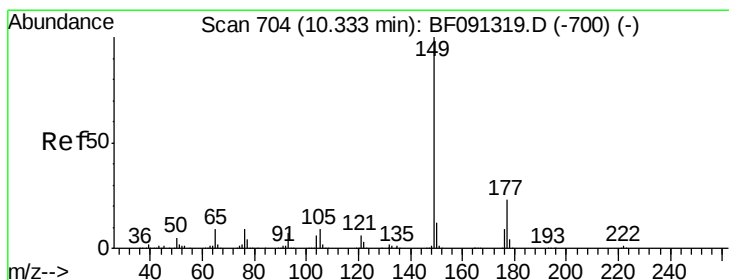
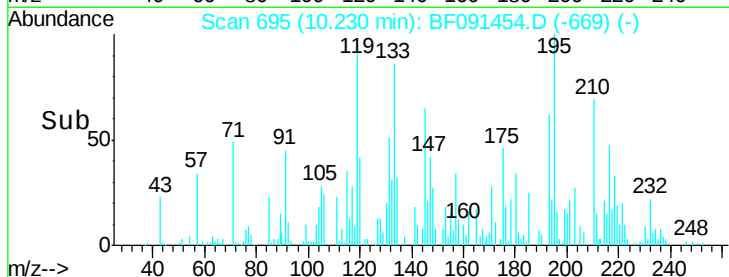
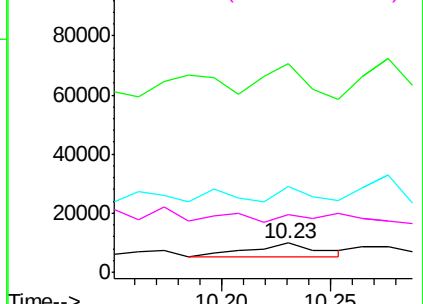


Abundance Ion 232.00 (231.70 to 232.70): E

Ion 131.00 (130.70 to 131.70): E

Ion 130.00 (129.70 to 130.70): E

Ion 166.00 (165.70 to 166.70): E



#59

Diethylphthalate

Concen: 2.22 ng

RT: 10.36 min Scan# 706

Delta R.T. 0.01 min

Lab File: BF091454.D

Acq: 6 Dec 2016 12:56

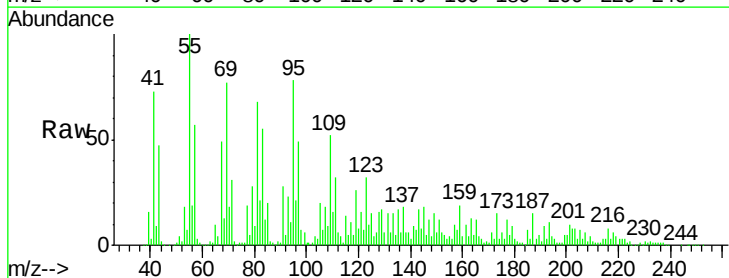
Tgt Ion:149 Resp: 29782

Ion Ratio Lower Upper

149 100

177 77.6 15.7 23.5#

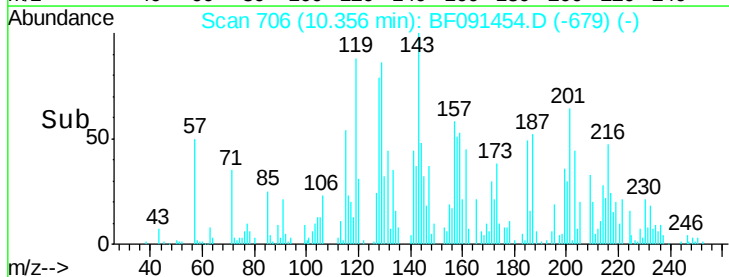
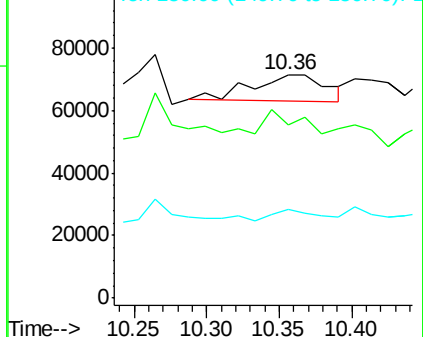
150 39.4 10.2 15.2#

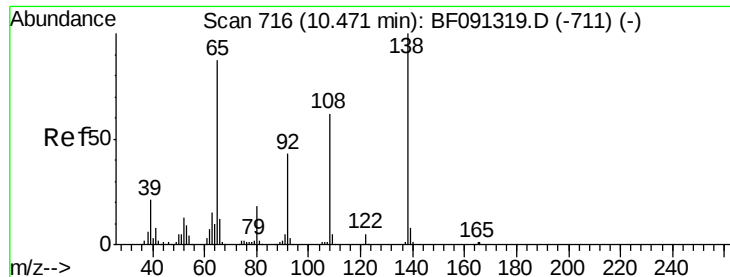


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 177.00 (176.70 to 177.70): E

Ion 150.00 (149.70 to 150.70): E

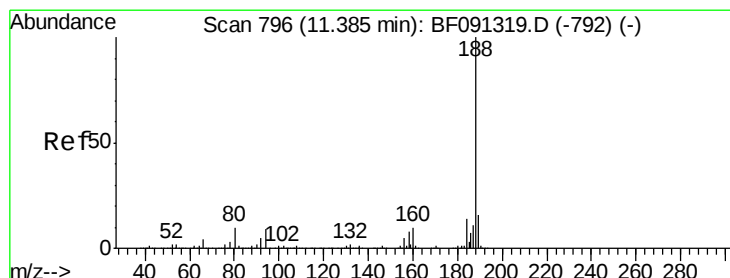
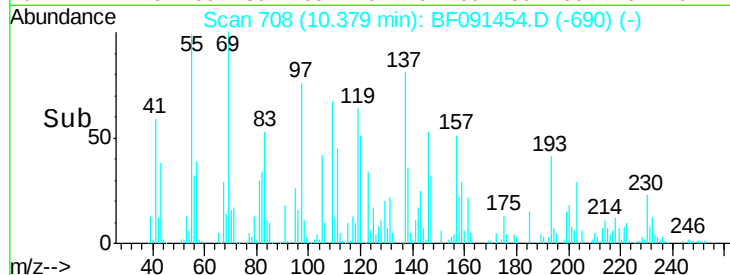
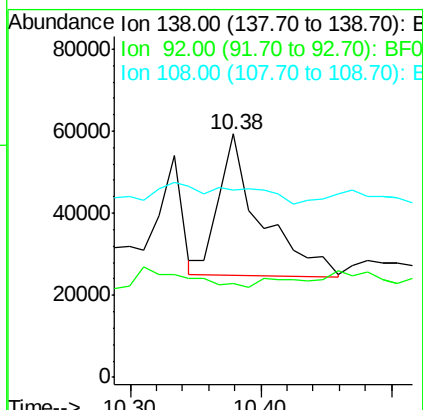
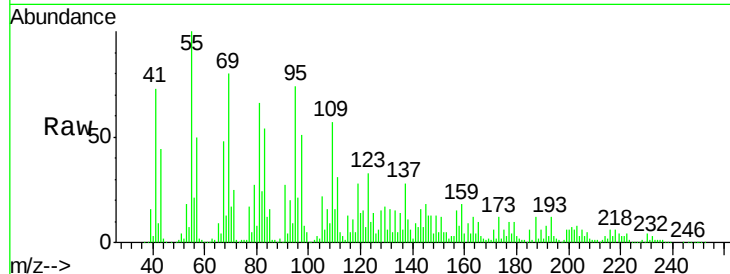




#61
4-Nitroaniline
Concen: 23.53 ng
RT: 10.38 min Scan# 708
Delta R.T. -0.10 min
Lab File: BF091454.D
Acq: 6 Dec 2016 12:56

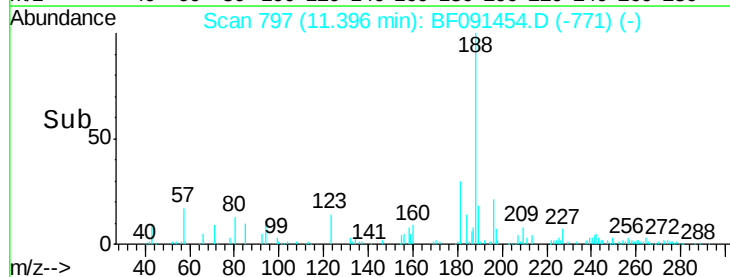
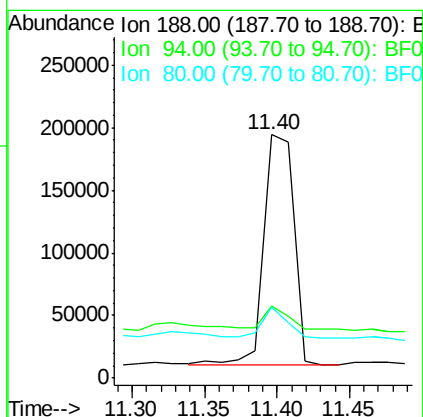
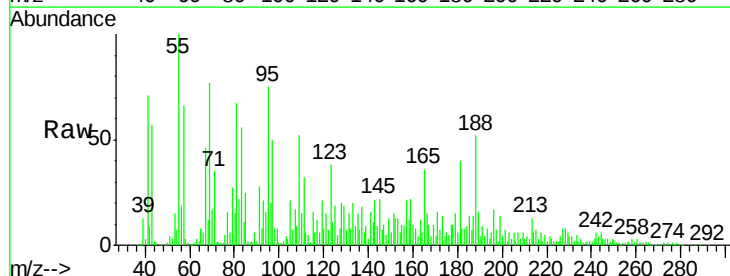
Instrument :
BNA_F
ClientSampleId :
S120116SF-S-3

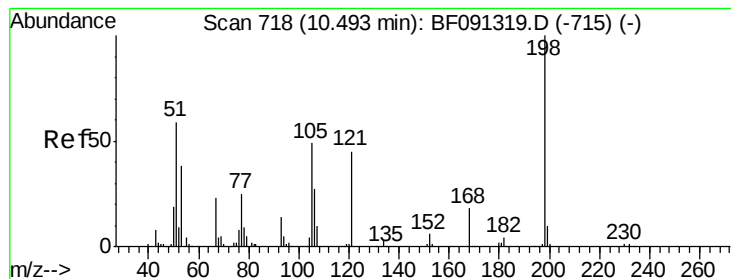
Tgt Ion:138 Resp: 77709
Ion Ratio Lower Upper
138 100
92 38.5 26.9 66.9
108 77.0 49.1 89.1



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.40 min Scan# 797
Delta R.T. -0.01 min
Lab File: BF091454.D
Acq: 6 Dec 2016 12:56

Tgt Ion:188 Resp: 262538
Ion Ratio Lower Upper
188 100
94 29.9 9.2 13.8#
80 28.9 10.5 15.7#





#64

4,6-Dinitro-2-methylphenol

Concen: 2.23 ng

RT: 10.53 min Scan# 721

Delta R.T. 0.02 min

Lab File: BF091454.D

Acq: 6 Dec 2016 12:56

Instrument :

BNA_F

ClientSampleId :

S120116SF-S-3

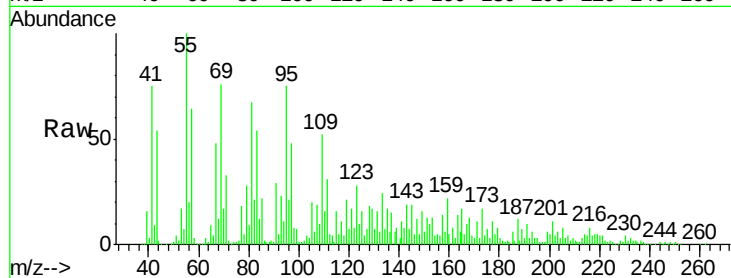
Tgt Ion:198 Resp: 3231

Ion Ratio Lower Upper

198 100

51 424.3 77.1 117.1#

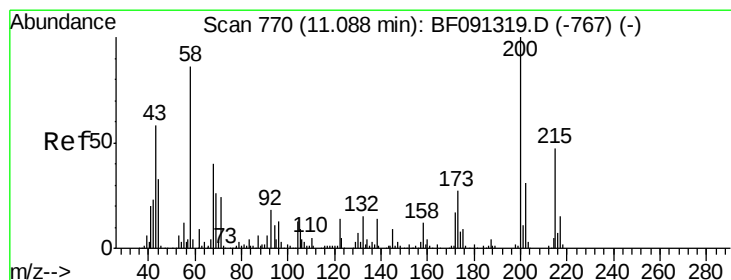
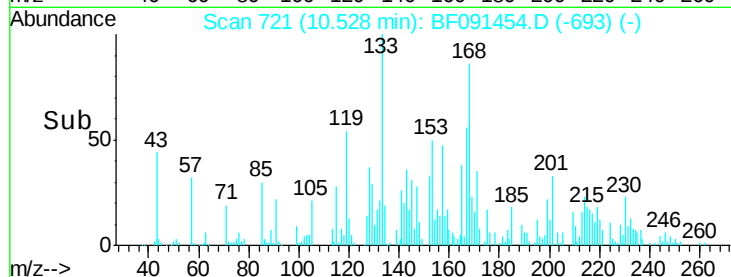
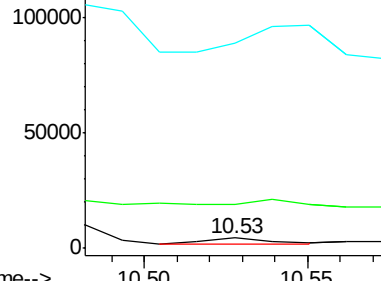
105 2000.7 44.8 84.8#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF0

Ion 105.00 (104.70 to 105.70): E



#68

Atrazine

Concen: 9.90 ng

RT: 11.08 min Scan# 769

Delta R.T. -0.03 min

Lab File: BF091454.D

Acq: 6 Dec 2016 12:56

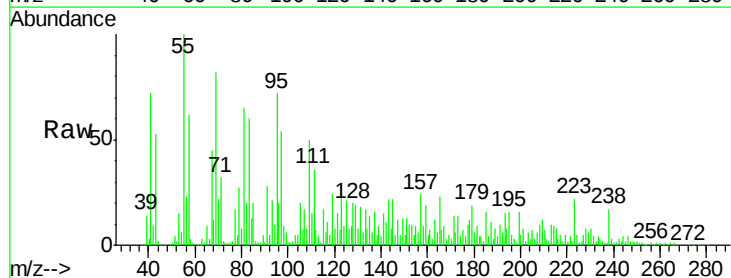
Tgt Ion:200 Resp: 25525

Ion Ratio Lower Upper

200 100

173 286.9 7.8 47.8#

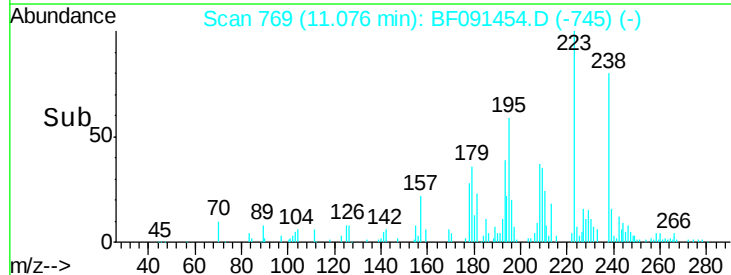
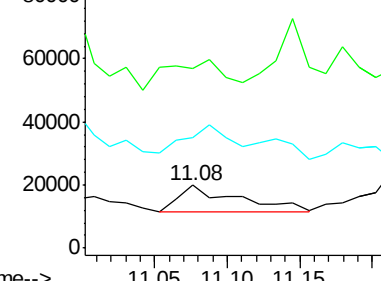
215 175.4 24.3 64.3#

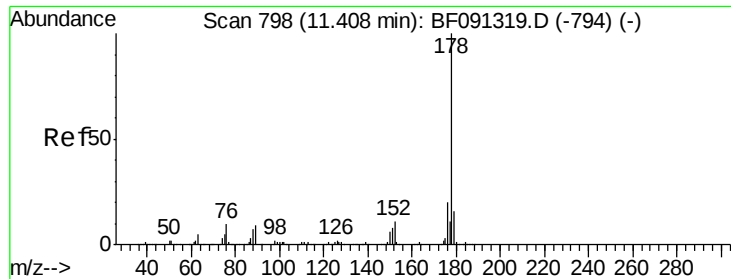


Abundance Ion 200.00 (199.70 to 200.70): E

Ion 173.00 (172.70 to 173.70): E

Ion 215.00 (214.70 to 215.70): E

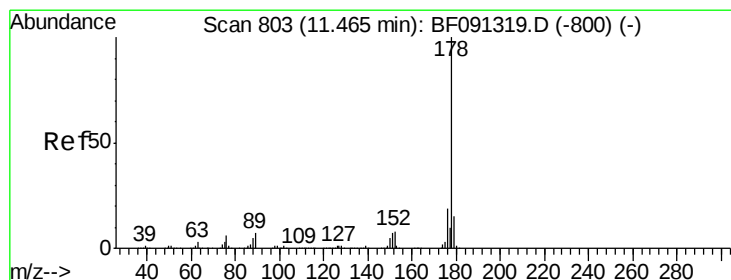
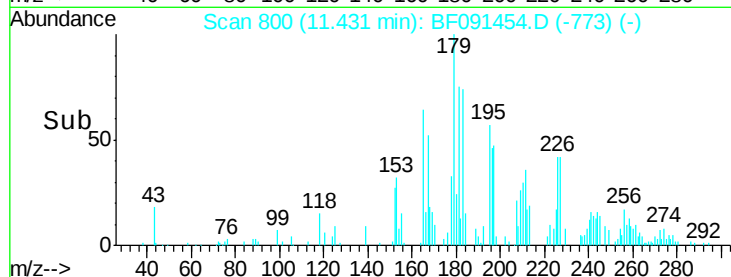
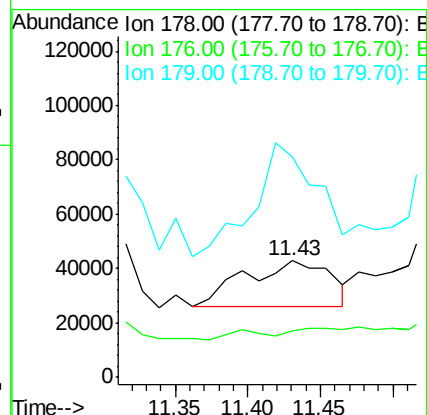
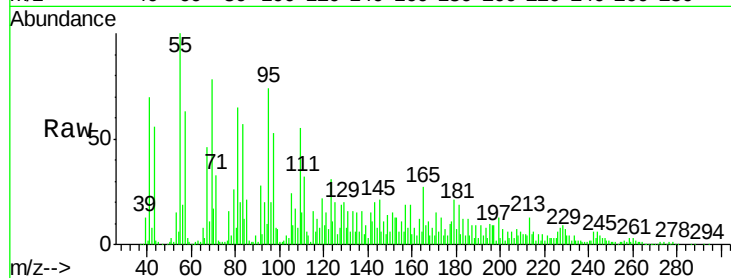




#70
Phenanthrene
Concen: 5.06 ng
RT: 11.43 min Scan# 800
Delta R.T. 0.01 min
Lab File: BF091454.D
Acq: 6 Dec 2016 12:56

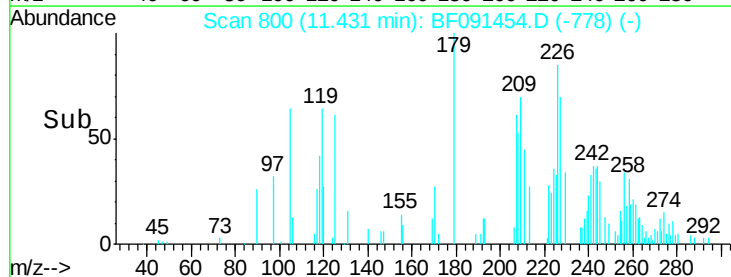
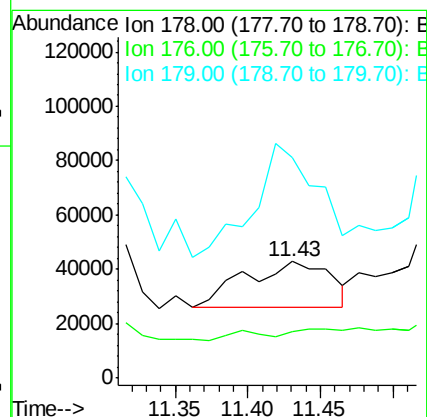
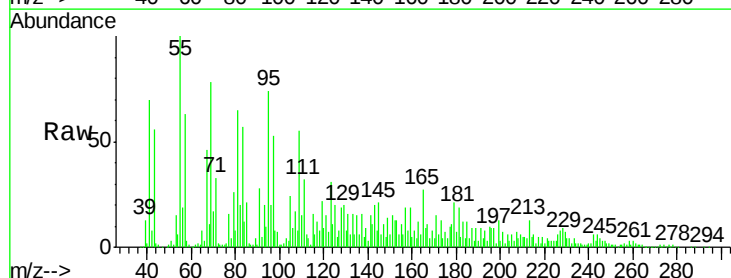
Instrument :
BNA_F
ClientSampleId :
S120116SF-S-3

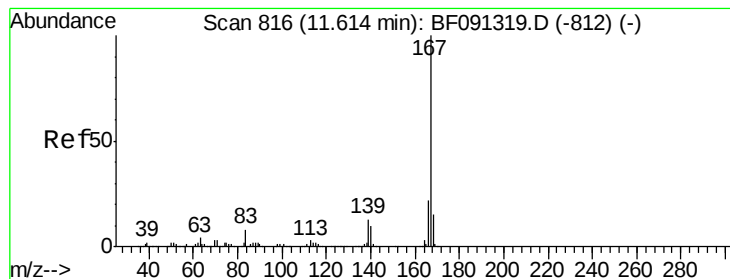
Tgt Ion:178 Resp: 68962
Ion Ratio Lower Upper
178 100
176 39.5 15.9 23.9#
179 189.4 12.6 18.8#



#71
Anthracene
Concen: 5.09 ng
RT: 11.43 min Scan# 800
Delta R.T. -0.05 min
Lab File: BF091454.D
Acq: 6 Dec 2016 12:56

Tgt Ion:178 Resp: 68962
Ion Ratio Lower Upper
178 100
176 39.5 15.8 23.6#
179 189.4 12.7 19.1#





#72

Carbazole

Concen: 6.91 ng

RT: 11.60 min Scan# 815

Delta R.T. -0.03 min

Lab File: BF091454.D

Acq: 6 Dec 2016 12:56

Instrument :

BNA_F

ClientSampleId :

S120116SF-S-3

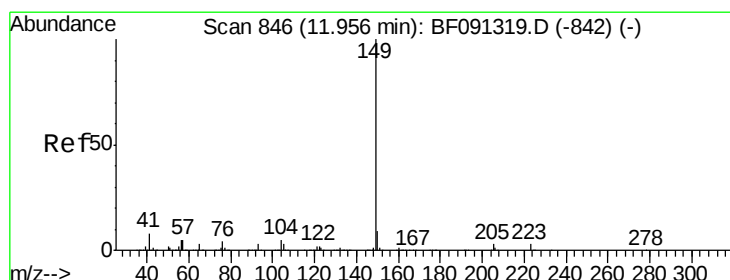
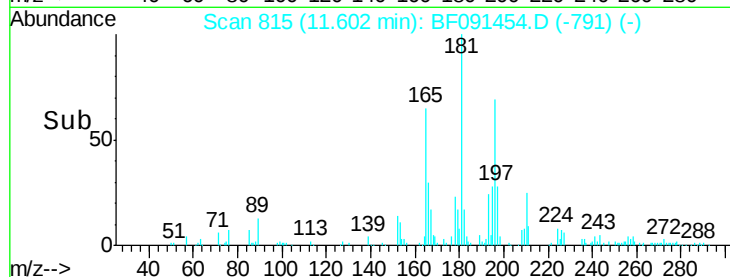
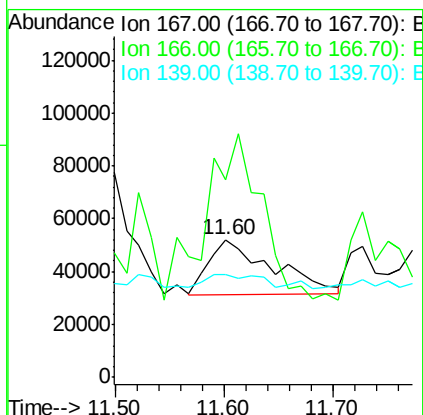
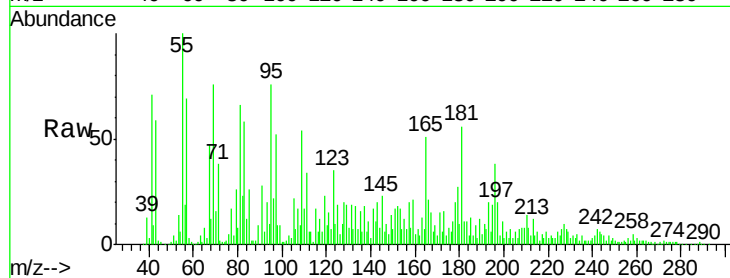
Tgt Ion:167 Resp: 84889

Ion Ratio Lower Upper

167 100

166 143.7 18.1 27.1#

139 74.3 11.5 17.3#



#73

Di-n-butylphthalate

Concen: 2.83 ng

RT: 11.96 min Scan# 846

Delta R.T. -0.02 min

Lab File: BF091454.D

Acq: 6 Dec 2016 12:56

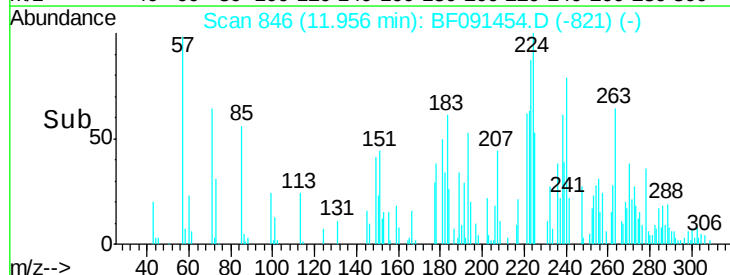
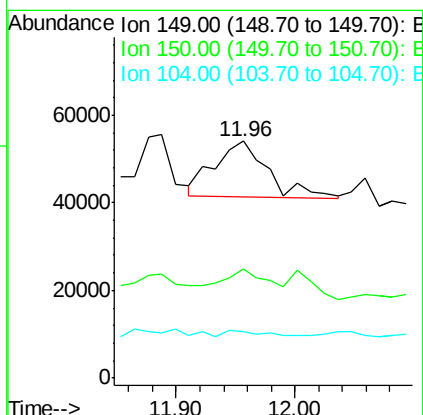
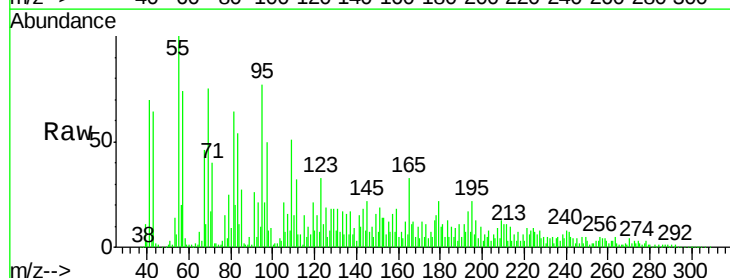
Tgt Ion:149 Resp: 39457

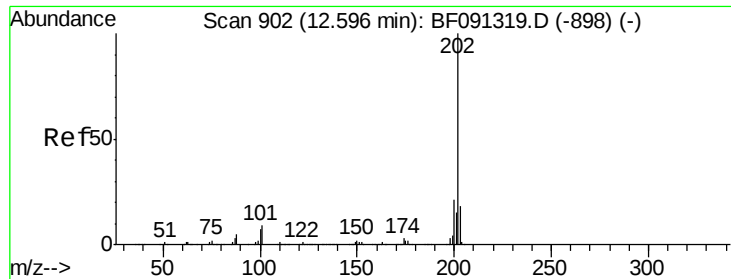
Ion Ratio Lower Upper

149 100

150 46.1 7.5 11.3#

104 19.6 4.0 6.0#





#74

Fluoranthene

Concen: 2.48 ng

RT: 12.57 min Scan# 900

Delta R.T. -0.04 min

Lab File: BF091454.D

Acq: 6 Dec 2016 12:56

Instrument :

BNA_F

ClientSampleId :

S120116SF-S-3

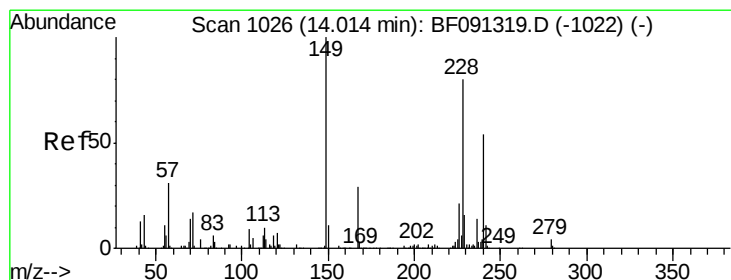
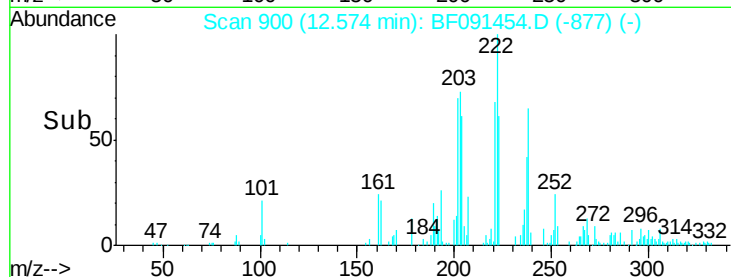
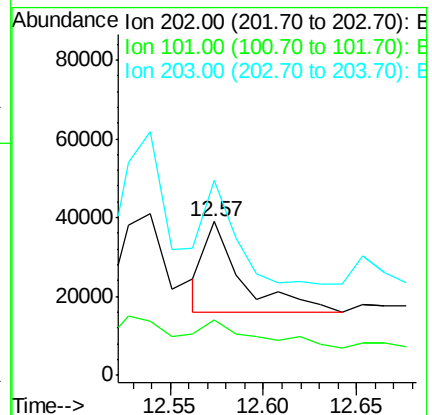
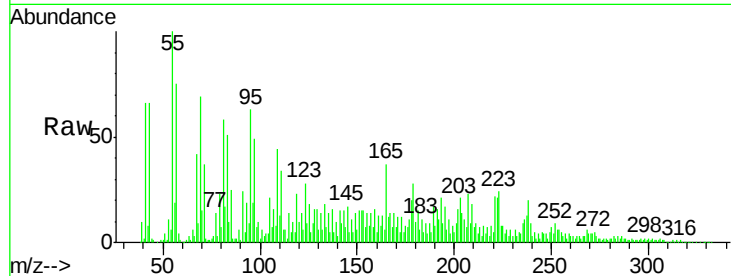
Tgt Ion:202 Resp: 32038

Ion Ratio Lower Upper

202 100

101 35.8 0.0 29.5#

203 127.4 0.0 37.8#



#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.00 min Scan# 1025

Delta R.T. -0.04 min

Lab File: BF091454.D

Acq: 6 Dec 2016 12:56

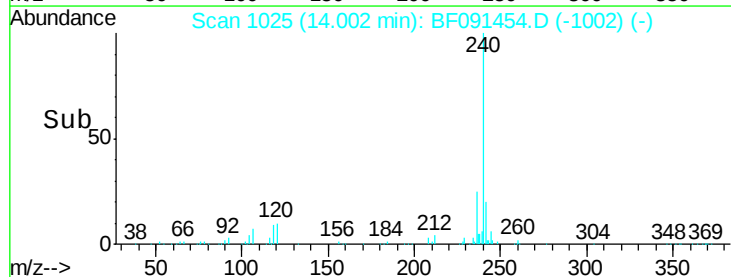
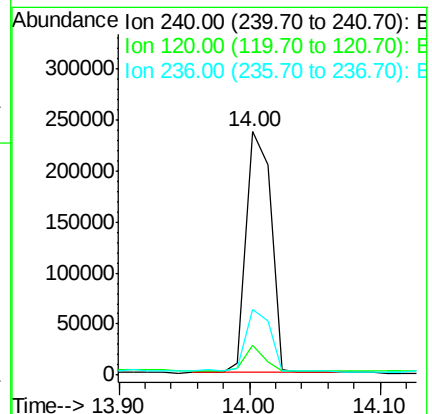
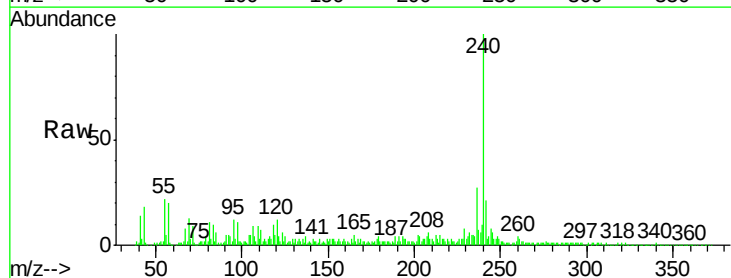
Tgt Ion:240 Resp: 311488

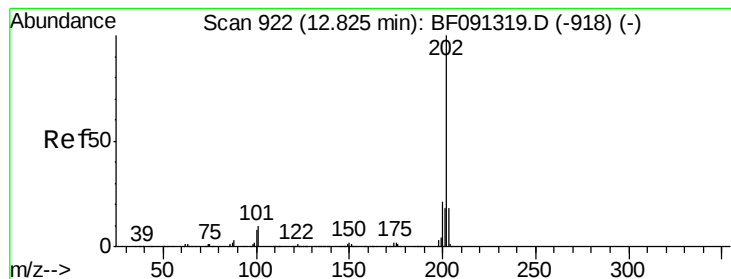
Ion Ratio Lower Upper

240 100

120 12.2 12.1 18.1

236 26.9 21.0 31.6





#77

Pyrene

Concen: 2.29 ng

RT: 12.84 min Scan# 923

Delta R.T. -0.01 min

Lab File: BF091454.D

Acq: 6 Dec 2016 12:56

Instrument :

BNA_F

ClientSampleId :

S120116SF-S-3

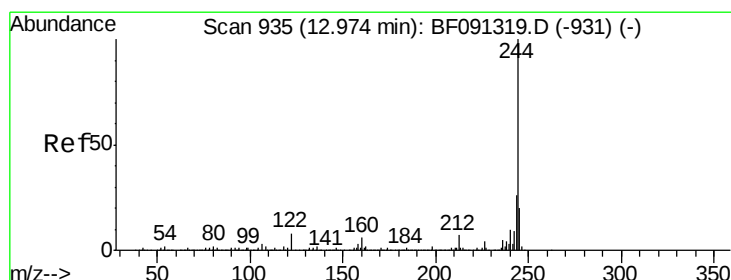
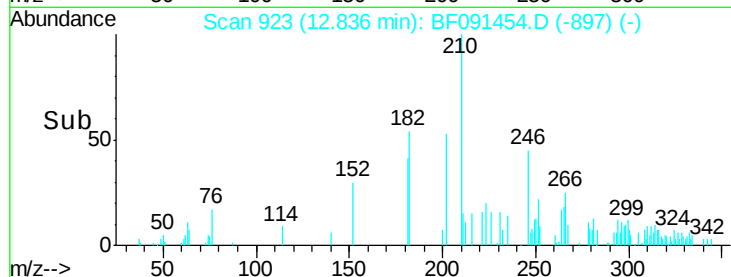
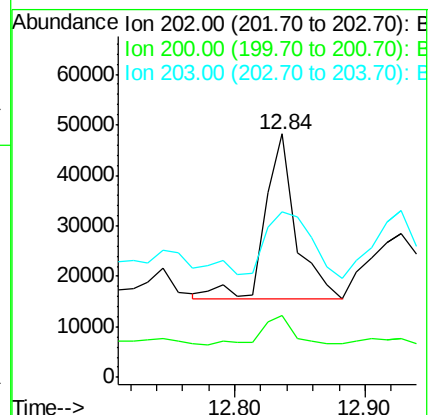
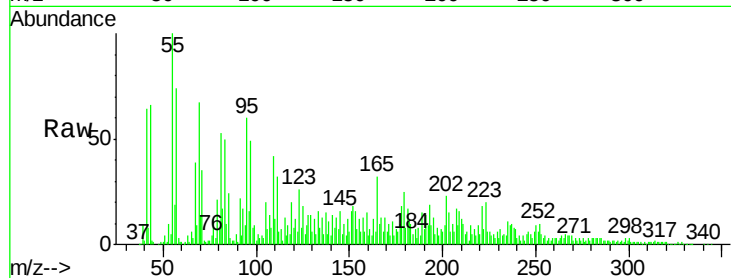
Tgt Ion:202 Resp: 54203

Ion Ratio Lower Upper

202 100

200 25.5 17.6 26.4

203 68.1 14.0 21.0#



#78

Terphenyl-d14

Concen: 51.84 ng

RT: 12.97 min Scan# 935

Delta R.T. -0.02 min

Lab File: BF091454.D

Acq: 6 Dec 2016 12:56

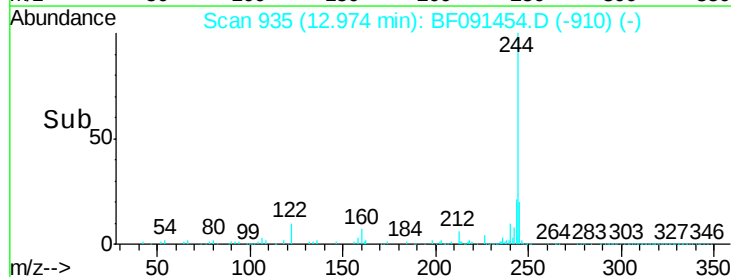
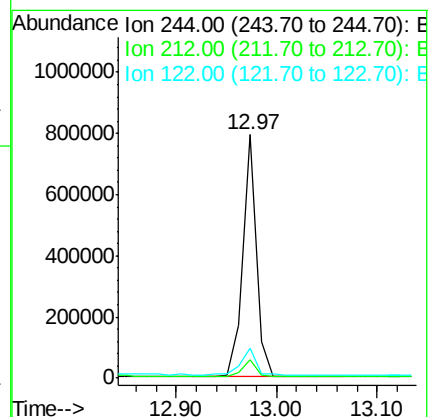
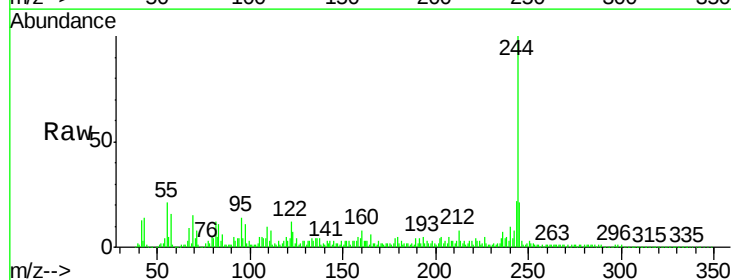
Tgt Ion:244 Resp: 742865

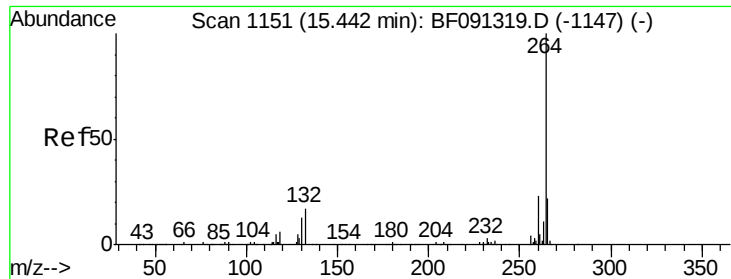
Ion Ratio Lower Upper

244 100

212 7.5 6.5 9.7

122 12.1 9.5 14.3





#86
Perylene-d12
Concen: 20.00 ng
RT: 15.42 min Scan# 1149
Delta R.T. -0.05 min
Lab File: BF091454.D
Acq: 6 Dec 2016 12:56

Instrument :
BNA_F
ClientSampleId :
S120116SF-S-3

Tgt Ion: 264 Resp: 369921
Ion Ratio Lower Upper
264 100
260 23.5 18.8 28.2
265 21.4 17.0 25.6

