

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF120216\
 Data File : BF091412.D
 Acq On : 3 Dec 2016 1:52
 Operator : UM/SJ
 Sample : H5825-04
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 S12016SF-S-4

Quant Time: Dec 03 02:44:55 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	6.86	152	161303	20.00	ng	-0.02
21) Naphthalene-d8	8.15	136	612721	20.00	ng	-0.02
38) Acenaphthene-d10	9.90	164	348443	20.00	ng	-0.02
63) Phenanthrene-d10	11.38	188	486546	20.00	ng	-0.02
75) Chrysene-d12	14.01	240	407523	20.00	ng	-0.03
86) Perylene-d12	15.44	264	313495	20.00	ng	-0.03

System Monitoring Compounds

5) 2-Fluorophenol	5.46	112	1013491	102.64	ng	0.00
7) Phenol-d6	6.49	99	1320897	108.67	ng	0.00
23) Nitrobenzene-d5	7.42	82	804214	73.56	ng	-0.03
41) 2,4,6-Tribromophenol	10.69	330	325286	98.61	ng	-0.02
44) 2-Fluorobiphenyl	9.22	172	1473292	76.56	ng	-0.02
78) Terphenyl-d14	12.97	244	1190030	63.47	ng	-0.02

Target Compounds

						Qvalue
9) Benzaldehyde	6.63	77	28566	3.65	ng	88
10) Phenol	6.50	94	113443	7.93	ng	87
19) n-Nitroso-di-n-propylamine	7.42	70	106040	13.85	ng	# 75
49) Dimethylphthalate	9.61	163	162395	7.70	ng	98
56) 2,4-Dinitrotoluene	9.90	165	45837	7.49	ng	# 34
66) 4-Bromophenyl-phenylether	10.69	248	21722	4.15	ng	# 1
70) Phenanthrene	11.41	178	147511	5.83	ng	97
74) Fluoranthene	12.59	202	245844	10.27	ng	97
77) Pyrene	12.81	202	236076	7.63	ng	98
80) Benzo(a)anthracene	14.00	228	139727	5.86	ng	100
82) Chrysene	14.04	228	91279	3.87	ng	96
85) Indeno(1,2,3-cd)pyrene	16.84	276	45303	2.10	ng	# 90
87) Benzo(b)fluoranthene	15.03	252	162428	8.34	ng	99
88) Benzo(k)fluoranthene	15.03	252	162428	9.91	ng	97
89) Benzo(a)pyrene	15.33	252	61405	3.51	ng	97
91) Benzo(g,h,i)perylene	17.26	276	44685	2.68	ng	99

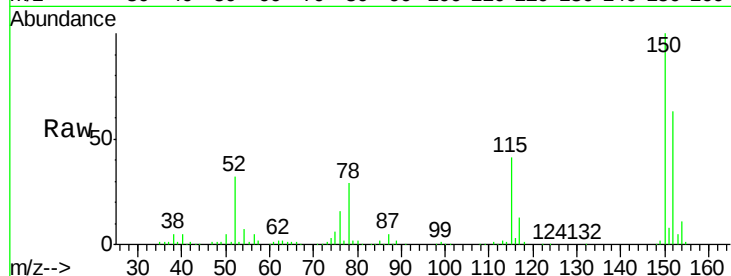
(#) = qualifier out of range (m) = manual integration (+) = signals summed



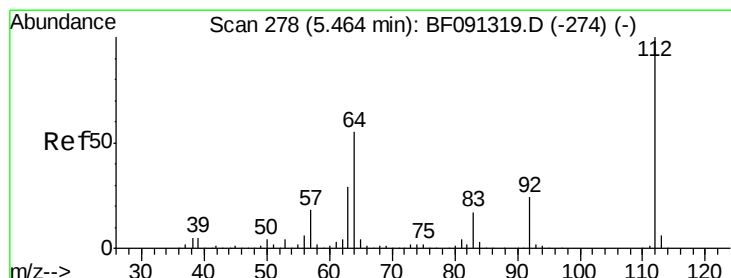
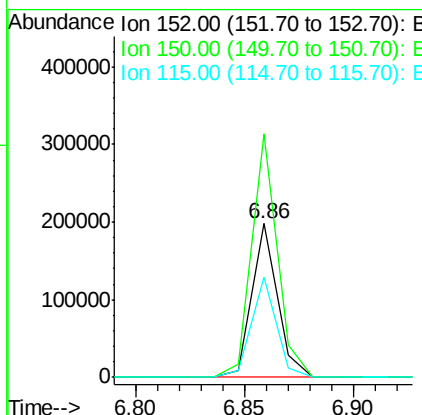
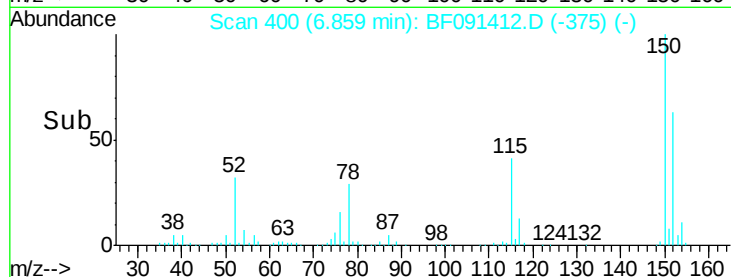
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.86 min Scan# 400
 Delta R.T. -0.02 min
 Lab File: BF091412.D
 Acq: 3 Dec 2016 1:52

Instrument :
 BNA_F
 ClientSampleId :
 S12016SF-S-4

Tgt Ion:152 Resp: 161303
 Ion Ratio Lower Upper
 152 100
 150 158.7 122.5 183.7
 115 65.5 51.8 77.8

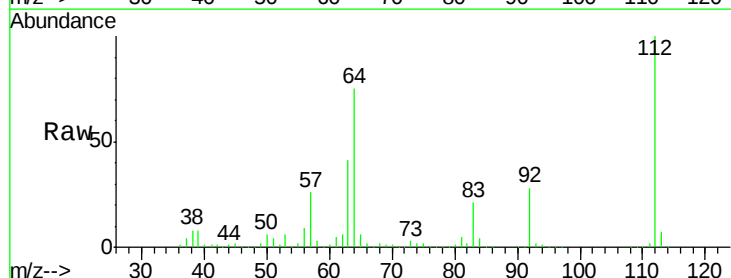


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

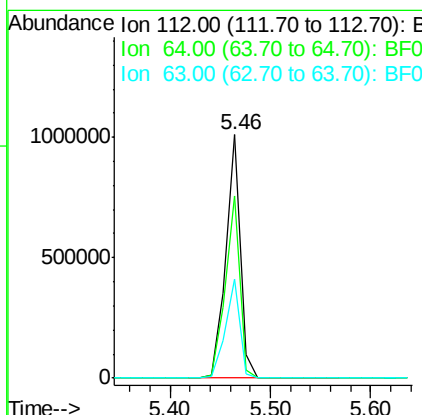
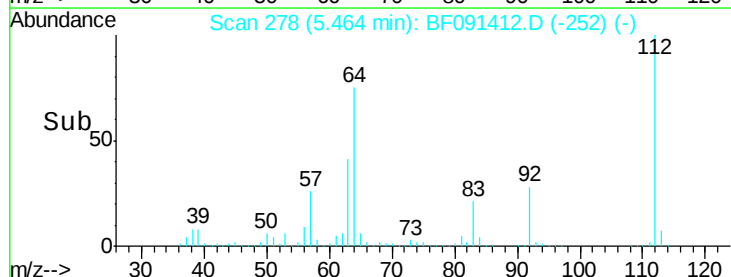


#5
 2-Fluorophenol
 Concen: 102.64 ng
 RT: 5.46 min Scan# 278
 Delta R.T. -0.00 min
 Lab File: BF091412.D
 Acq: 3 Dec 2016 1:52

Tgt Ion:112 Resp: 1013491
 Ion Ratio Lower Upper
 112 100
 64 74.8 61.5 92.3
 63 40.7 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: 108.67 ng

RT: 6.49 min Scan# 368

Delta R.T. -0.01 min

Lab File: BF091412.D

Acq: 3 Dec 2016 1:52

Instrument :

BNA_F

ClientSampleId :

S12016SF-S-4

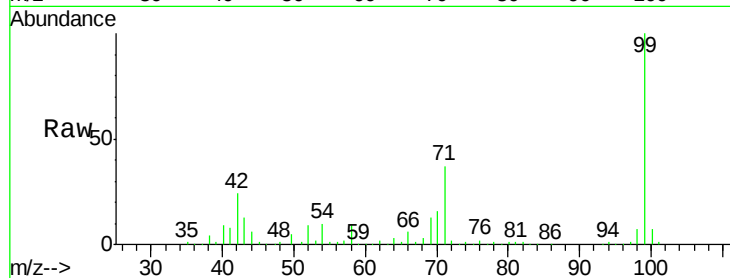
Tgt Ion: 99 Resp: 1320897

Ion Ratio Lower Upper

99 100

42 23.8 20.6 31.0

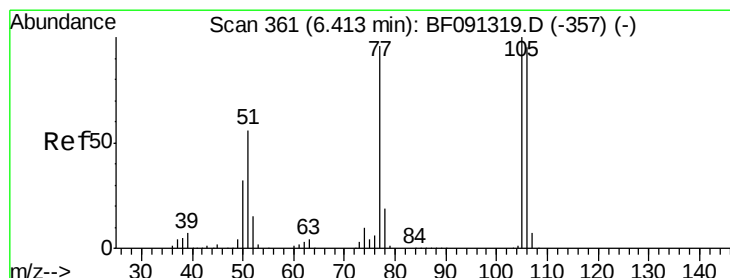
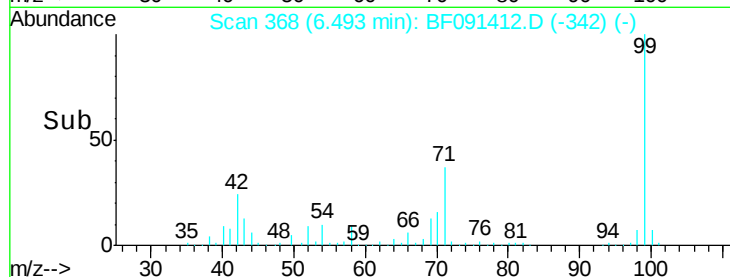
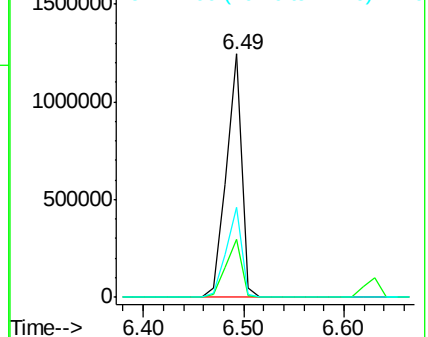
71 37.0 29.9 44.9



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: 3.65 ng

RT: 6.63 min Scan# 380

Delta R.T. 0.21 min

Lab File: BF091412.D

Acq: 3 Dec 2016 1:52

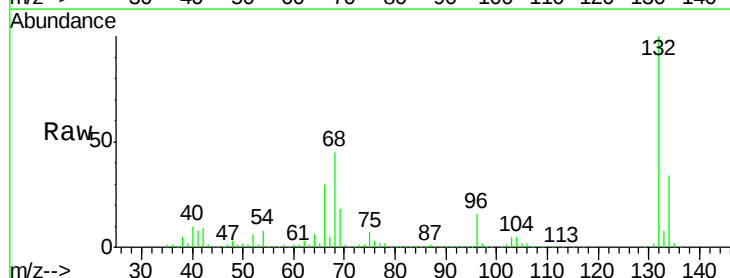
Tgt Ion: 77 Resp: 28566

Ion Ratio Lower Upper

77 100

105 79.1 66.4 106.4

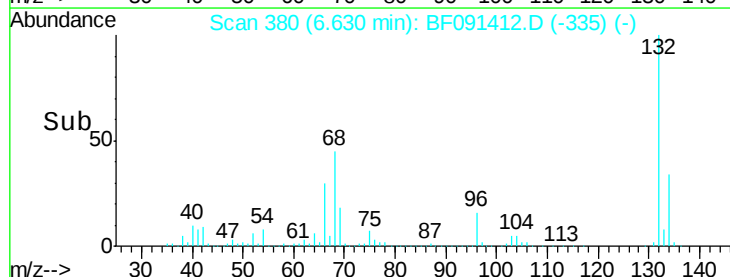
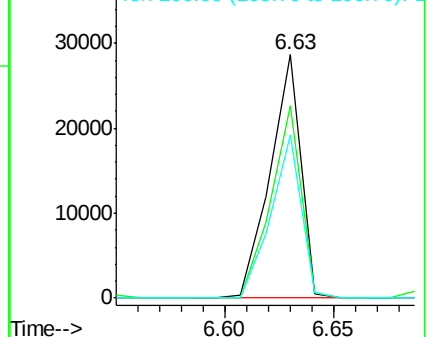
106 66.8 60.9 100.9

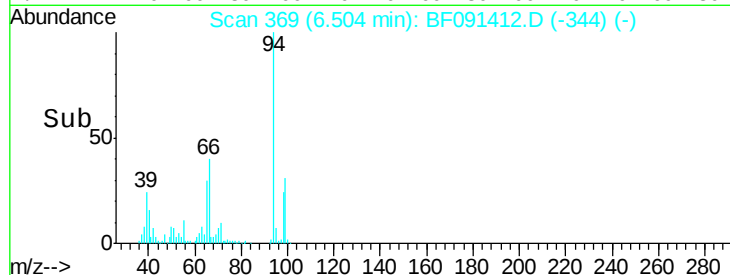
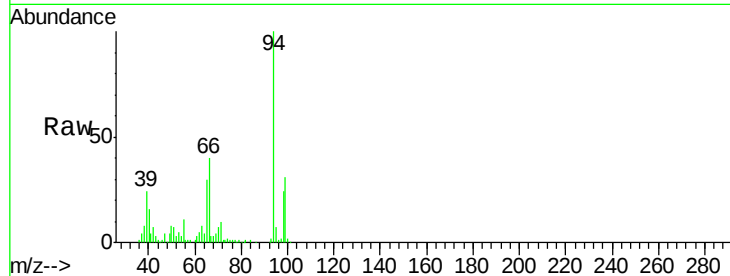
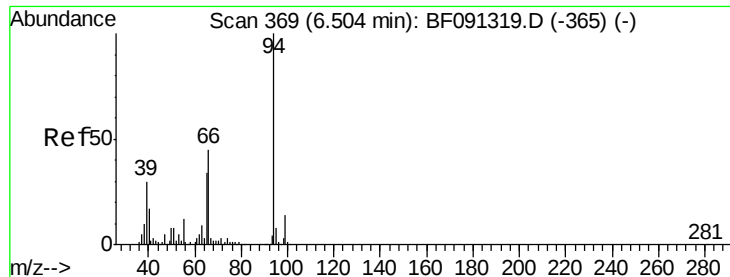


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E





#10

Phenol

Concen: 7.93 ng

RT: 6.50 min Scan# 369

Delta R.T. -0.02 min

Lab File: BF091412.D

Acq: 3 Dec 2016 1:52

Instrument :

BNA_F

ClientSampleId :

S12016SF-S-4

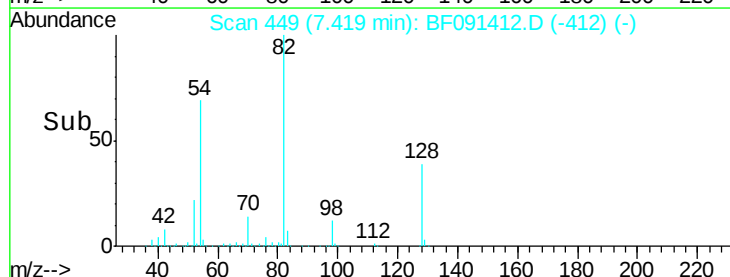
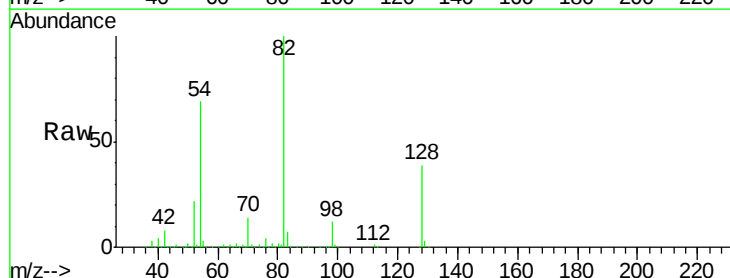
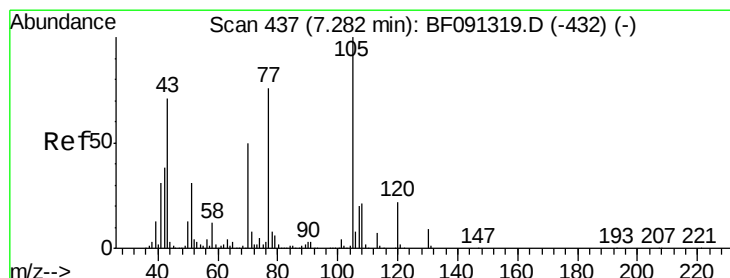
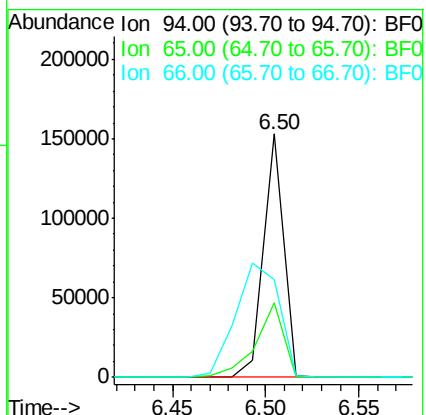
Tgt Ion: 94 Resp: 113443

Ion Ratio Lower Upper

94 100

65 30.5 16.9 56.9

66 40.0 30.6 70.6



#19

n-Nitroso-di-n-propylamine

Concen: 13.85 ng

RT: 7.42 min Scan# 449

Delta R.T. 0.12 min

Lab File: BF091412.D

Acq: 3 Dec 2016 1:52

Tgt Ion: 70 Resp: 106040

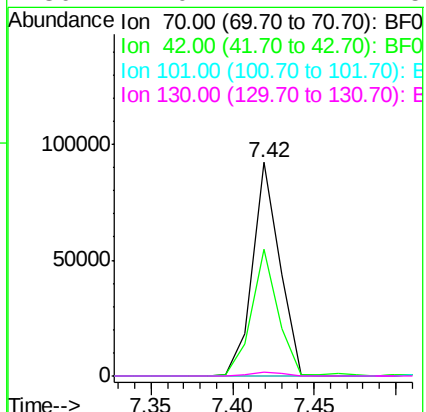
Ion Ratio Lower Upper

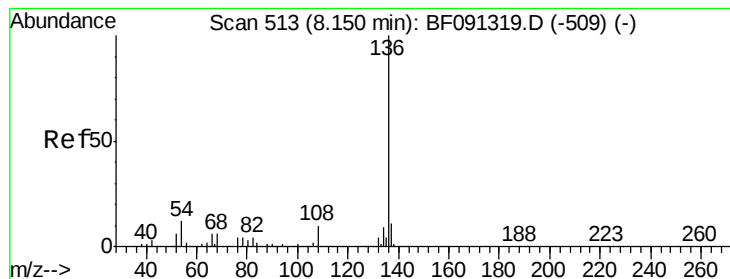
70 100

42 59.1 64.8 97.2#

101 0.0 6.2 9.4#

130 2.0 11.7 17.5#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.15 min Scan# 513

Delta R.T. -0.02 min

Lab File: BF091412.D

Acq: 3 Dec 2016 1:52

Instrument :

BNA_F

ClientSampleId :

S12016SF-S-4

Tgt Ion: 136 Resp: 612721

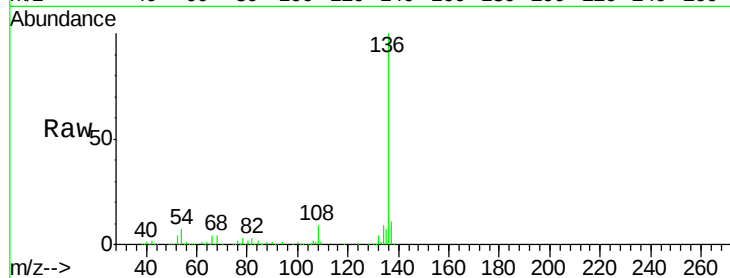
Ion Ratio Lower Upper

136 100

137 10.6 9.1 13.7

54 7.2 9.1 13.7#

68 3.8 5.9 8.9#

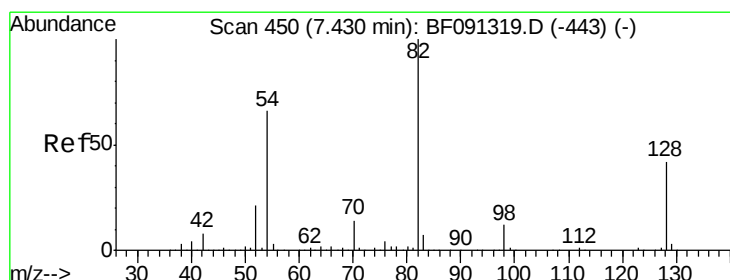
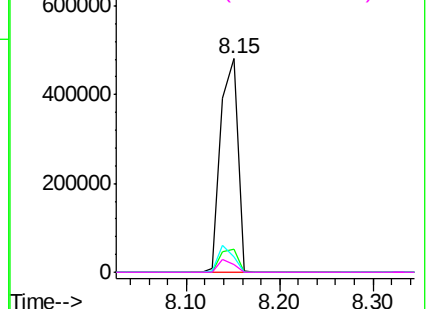
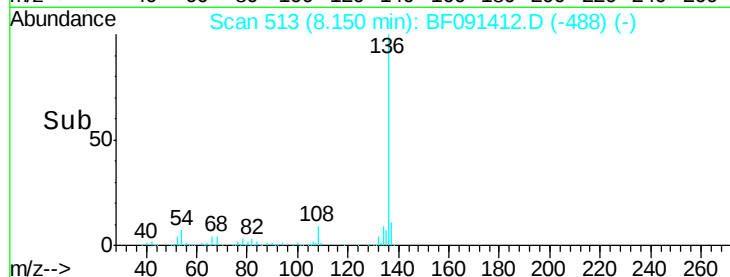


Abundance Ion 136.00 (135.70 to 136.70): E

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: 73.56 ng

RT: 7.42 min Scan# 449

Delta R.T. -0.03 min

Lab File: BF091412.D

Acq: 3 Dec 2016 1:52

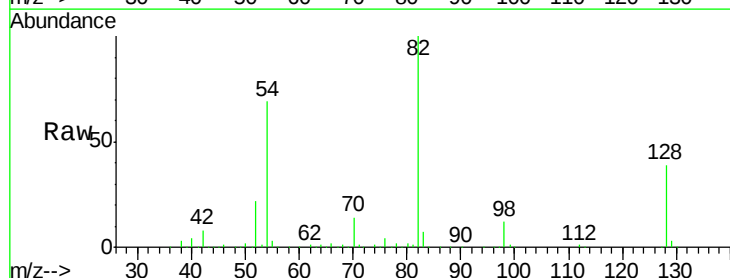
Tgt Ion: 82 Resp: 804214

Ion Ratio Lower Upper

82 100

128 38.8 31.8 47.6

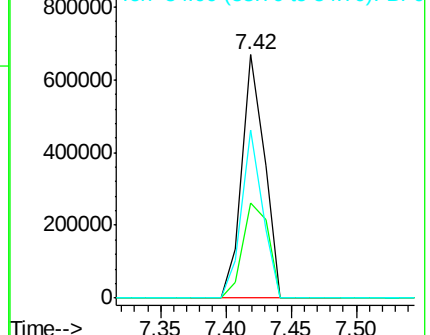
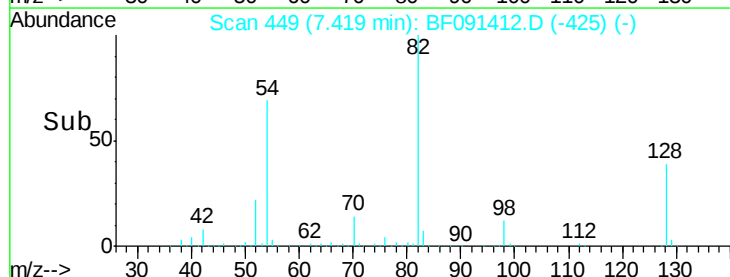
54 69.1 49.1 73.7

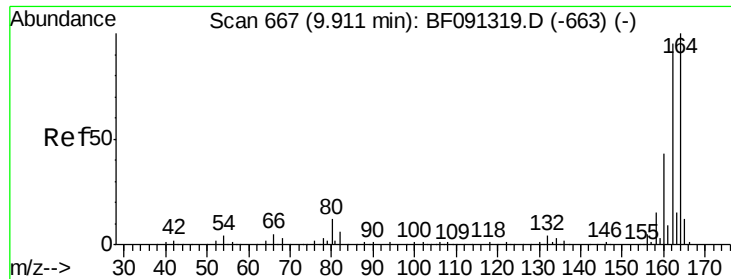


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

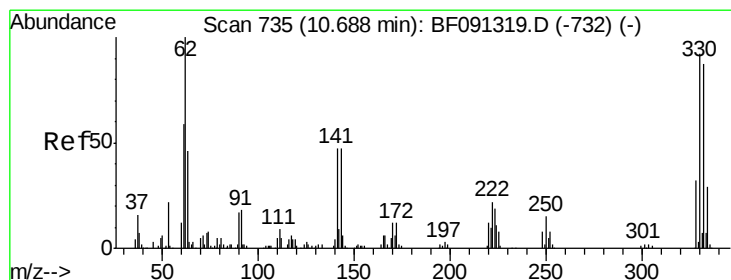
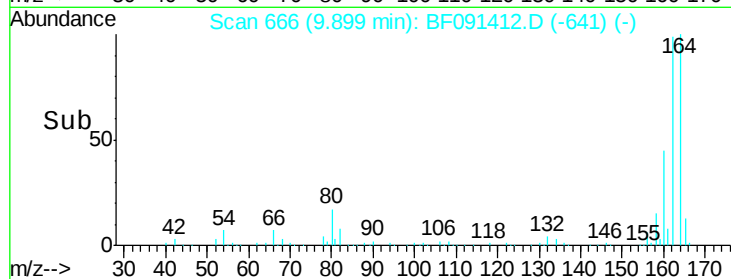
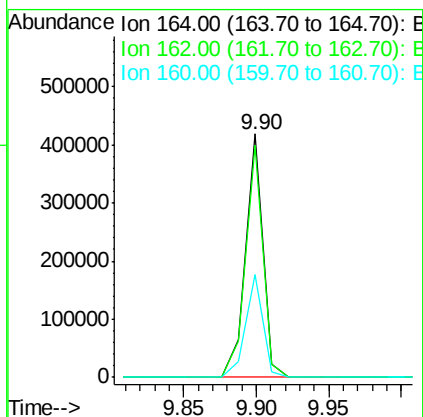
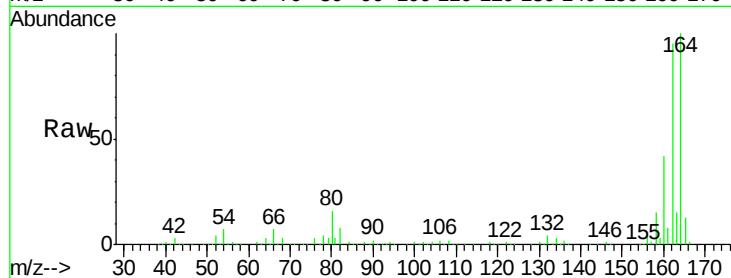




#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.90 min Scan# 666
Delta R.T. -0.02 min
Lab File: BF091412.D
Acq: 3 Dec 2016 1:52

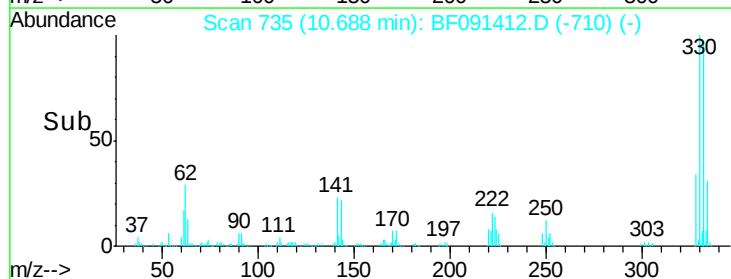
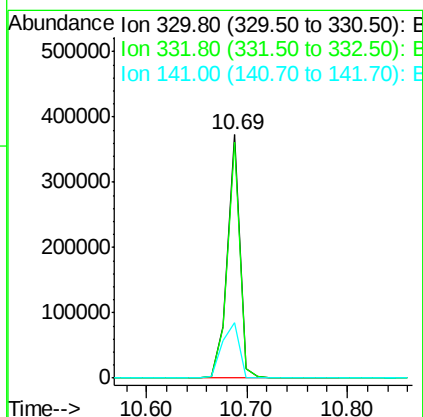
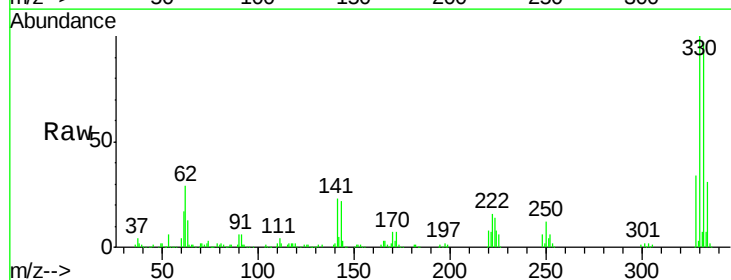
Instrument :
BNA_F
ClientSampleId :
S12016SF-S-4

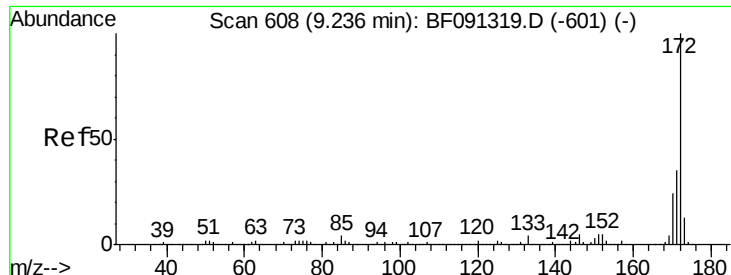
Tgt Ion:164 Resp: 348443
Ion Ratio Lower Upper
164 100
162 95.2 82.6 124.0
160 42.5 36.7 55.1



#41
2,4,6-Tribromophenol
Concen: 98.61 ng
RT: 10.69 min Scan# 735
Delta R.T. -0.02 min
Lab File: BF091412.D
Acq: 3 Dec 2016 1:52

Tgt Ion:330 Resp: 325286
Ion Ratio Lower Upper
330 100
332 97.0 76.2 114.4
141 31.1 33.6 50.4#

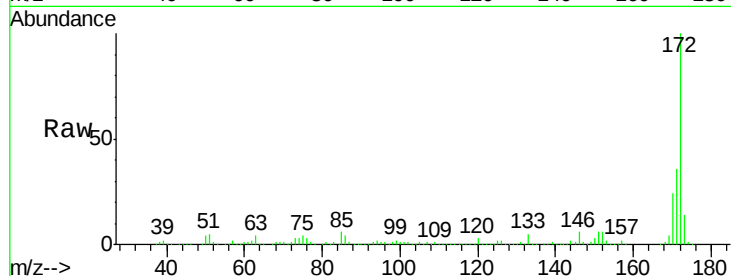




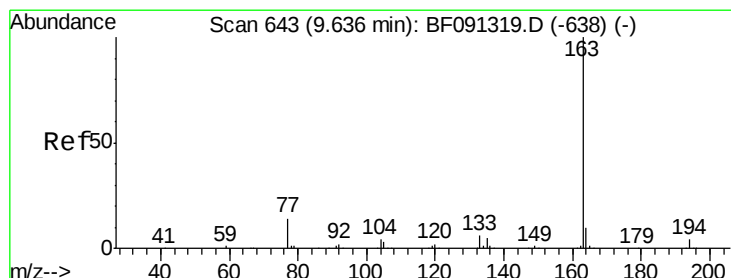
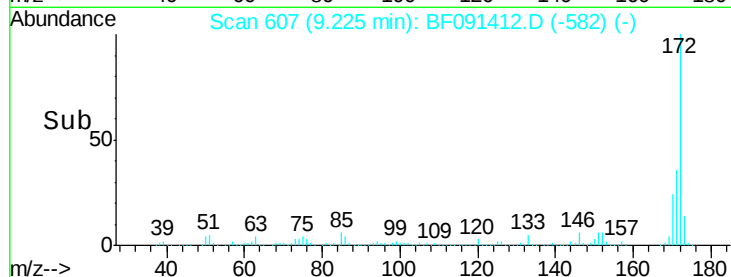
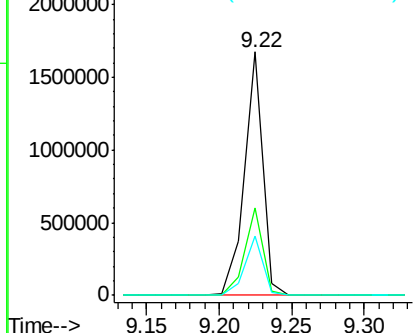
#44
 2-Fluorobiphenyl
 Concen: 76.56 ng
 RT: 9.22 min Scan# 607
 Delta R.T. -0.02 min
 Lab File: BF091412.D
 Acq: 3 Dec 2016 1:52

Instrument :
 BNA_F
 ClientSampleId :
 S12016SF-S-4

Tgt Ion:172 Resp: 1473292
 Ion Ratio Lower Upper
 172 100
 171 36.1 29.4 44.0
 170 24.2 19.7 29.5

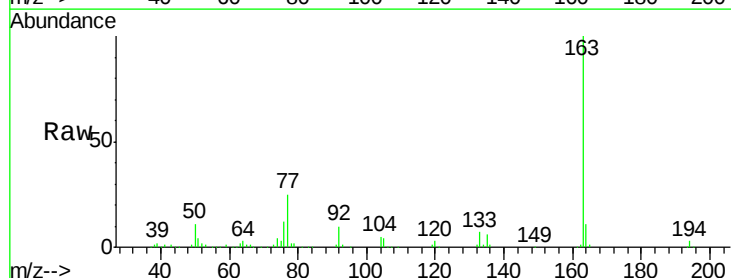


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

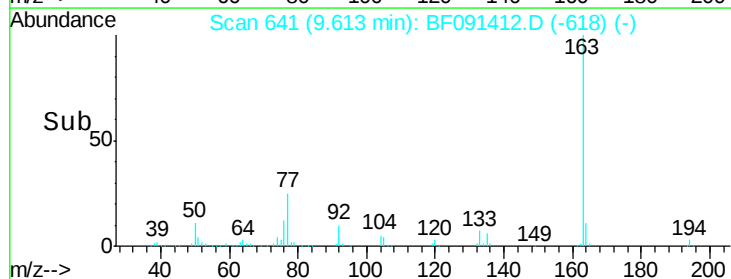
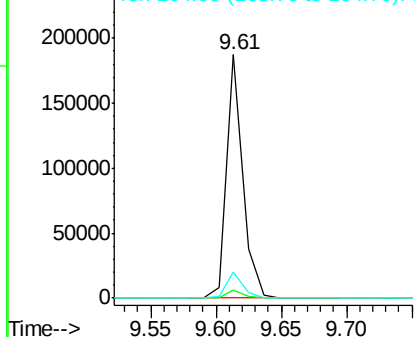


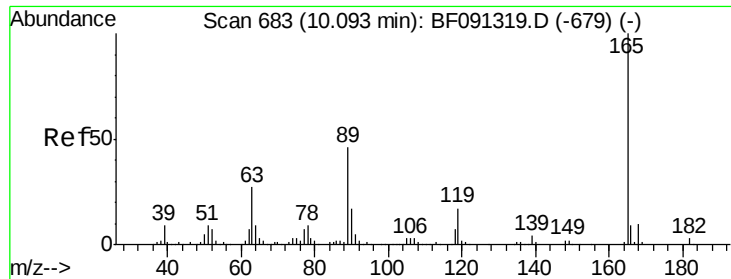
#49
 Dimethylphthalate
 Concen: 7.70 ng
 RT: 9.61 min Scan# 641
 Delta R.T. -0.04 min
 Lab File: BF091412.D
 Acq: 3 Dec 2016 1:52

Tgt Ion:163 Resp: 162395
 Ion Ratio Lower Upper
 163 100
 194 3.4 3.0 4.4
 164 10.5 7.8 11.8



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

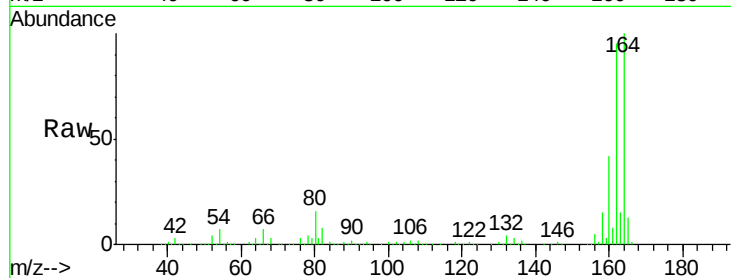




#56
 2,4-Dinitrotoluene
 Concen: 7.49 ng
 RT: 9.90 min Scan# 666
 Delta R.T. -0.20 min
 Lab File: BF091412.D
 Acq: 3 Dec 2016 1:52

Instrument :
 BNA_F
 ClientSampleId :
 S12016SF-S-4

Tgt Ion:	165	Resp:	45837
Ion	Ratio	Lower	Upper
165	100		
63	1.0	29.0	43.4#
89	1.3	43.1	64.7#
182	0.0	1.9	2.9#

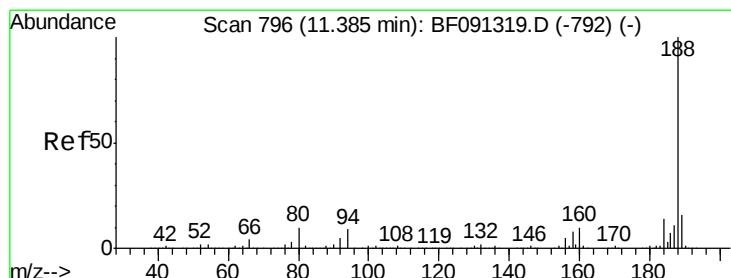
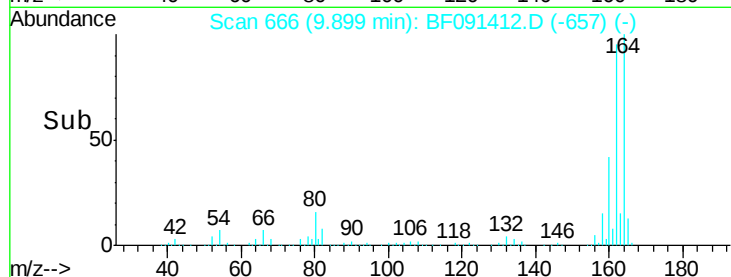
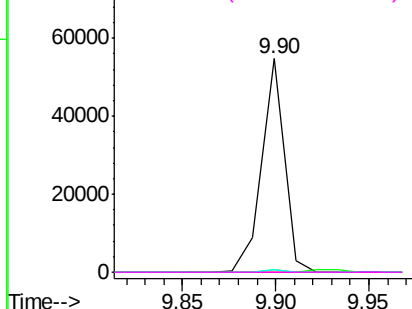


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

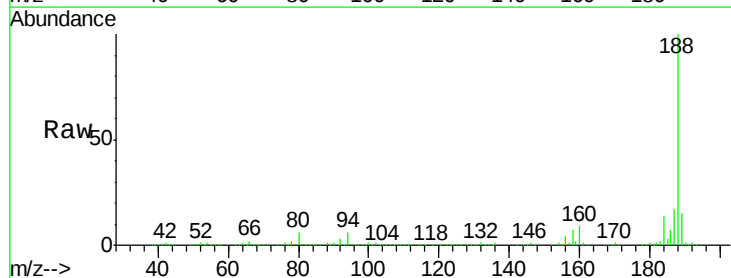
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.38 min Scan# 796
 Delta R.T. -0.02 min
 Lab File: BF091412.D
 Acq: 3 Dec 2016 1:52

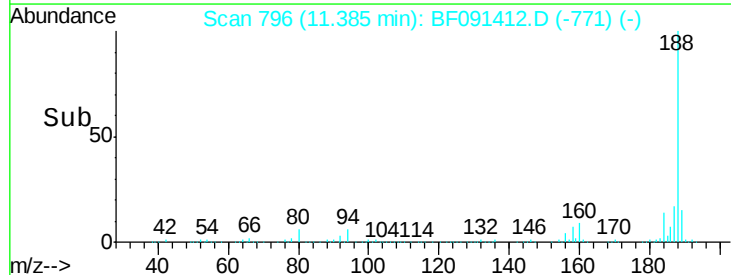
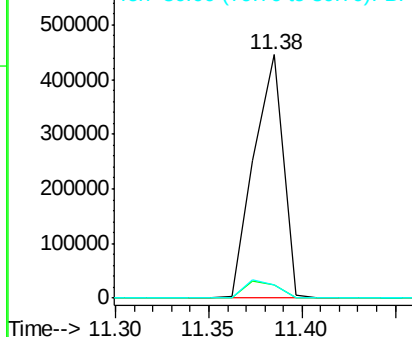
Tgt Ion:	188	Resp:	486546
Ion	Ratio	Lower	Upper
188	100		
94	5.6	9.2	13.8#
80	5.6	10.5	15.7#

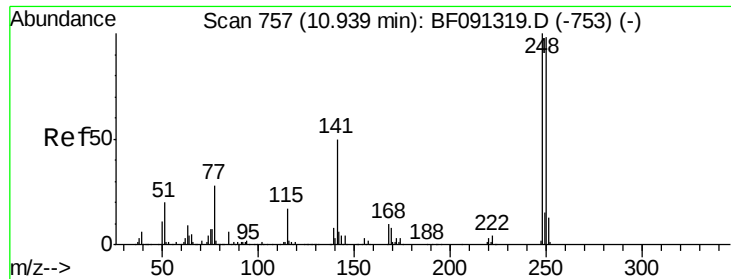


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

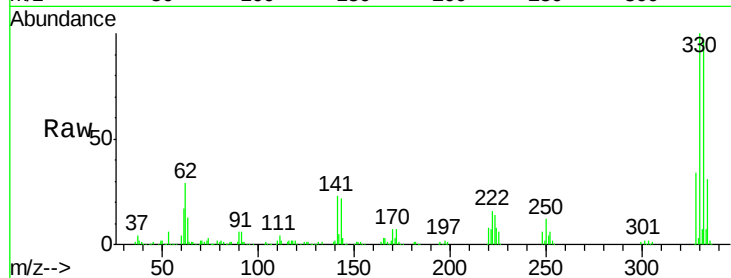




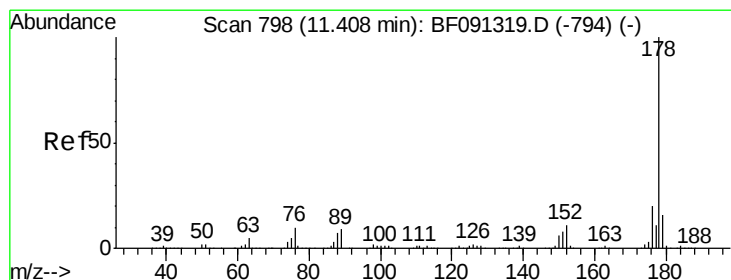
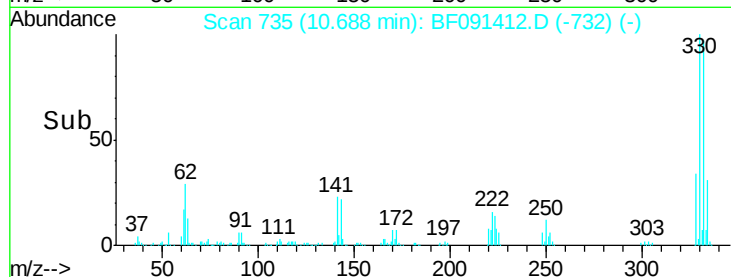
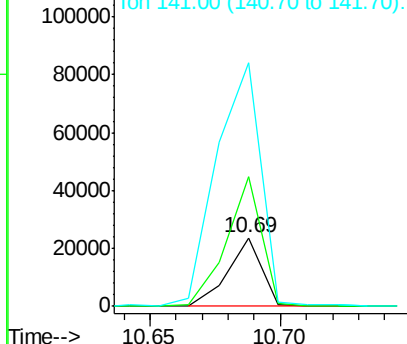
#66
4-Bromophenyl-phenylether
Concen: 4.15 ng
RT: 10.69 min Scan# 735
Delta R.T. -0.27 min
Lab File: BF091412.D
Acq: 3 Dec 2016 1:52

Instrument :
BNA_F
ClientSampleId :
S12016SF-S-4

Tgt Ion:248 Resp: 21722
Ion Ratio Lower Upper
248 100
250 189.0 78.2 117.4#
141 354.2 71.9 107.9#

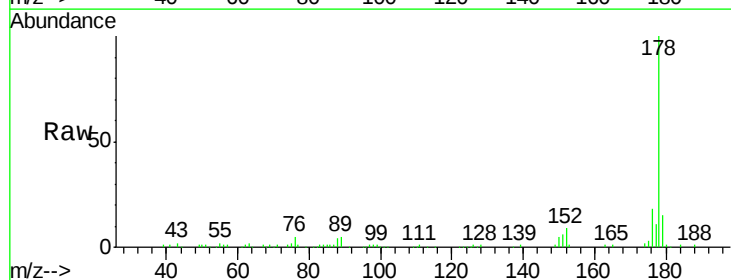


Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E

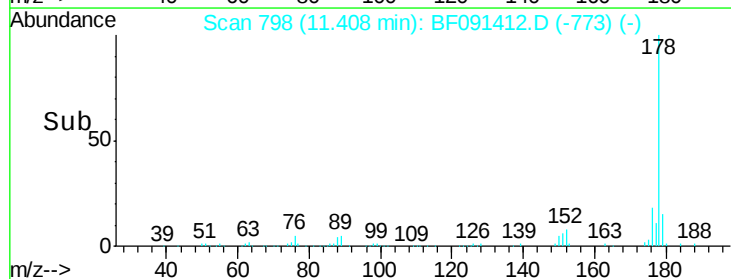
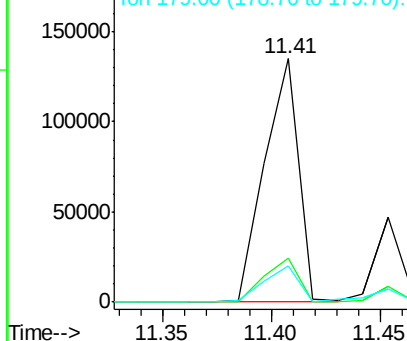


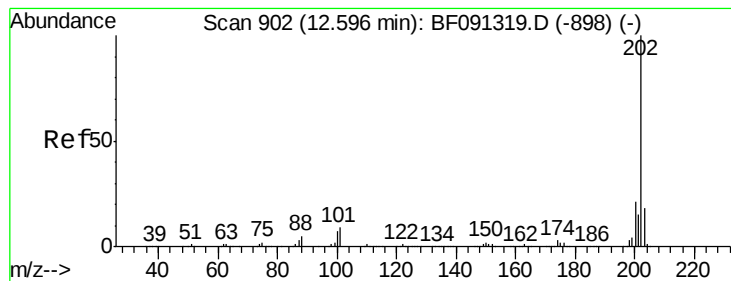
#70
Phenanthrene
Concen: 5.83 ng
RT: 11.41 min Scan# 798
Delta R.T. -0.02 min
Lab File: BF091412.D
Acq: 3 Dec 2016 1:52

Tgt Ion:178 Resp: 147511
Ion Ratio Lower Upper
178 100
176 18.0 15.9 23.9
179 14.9 12.6 18.8



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





#74

Fluoranthene

Concen: 10.27 ng

RT: 12.59 min Scan# 901

Delta R.T. -0.03 min

Lab File: BF091412.D

Acq: 3 Dec 2016 1:52

Instrument :

BNA_F

ClientSampleId :

S12016SF-S-4

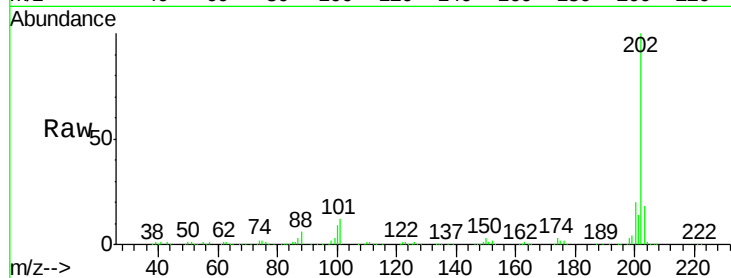
Tgt Ion: 202 Resp: 245844

Ion Ratio Lower Upper

202 100

101 12.1 0.0 29.5

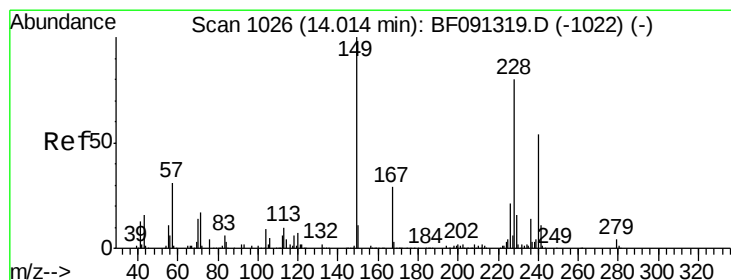
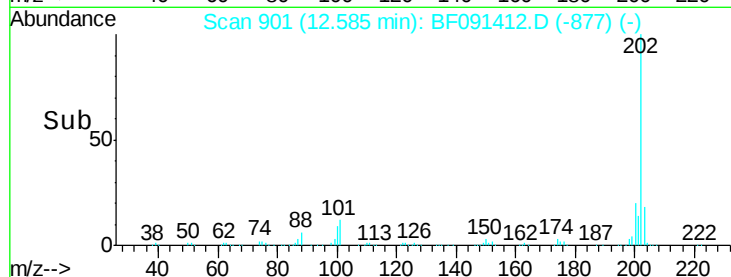
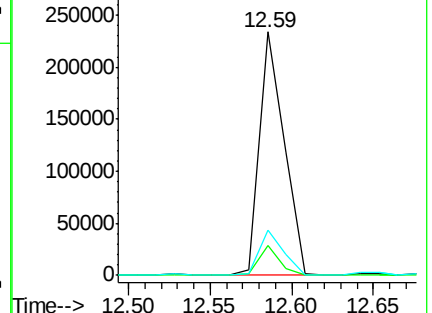
203 18.5 0.0 37.8



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: 14.01 min Scan# 1026

Delta R.T. -0.03 min

Lab File: BF091412.D

Acq: 3 Dec 2016 1:52

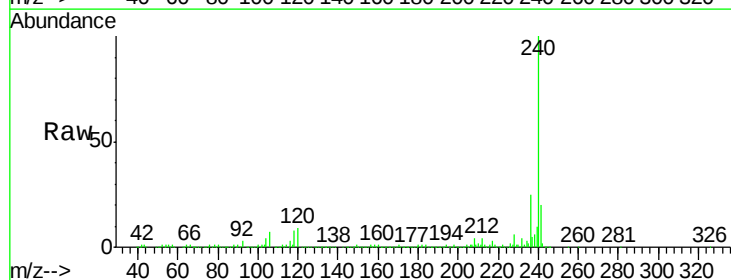
Tgt Ion: 240 Resp: 407523

Ion Ratio Lower Upper

240 100

120 9.3 12.1 18.1#

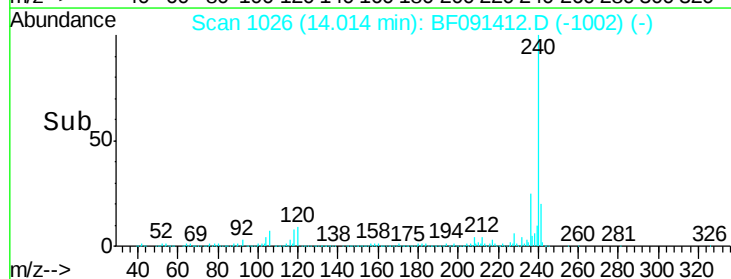
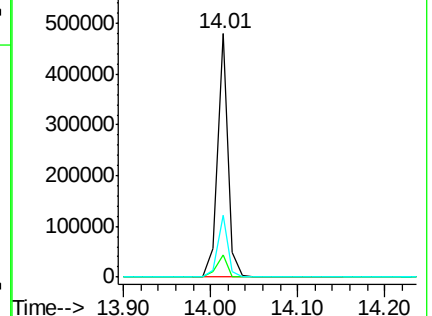
236 25.2 21.0 31.6

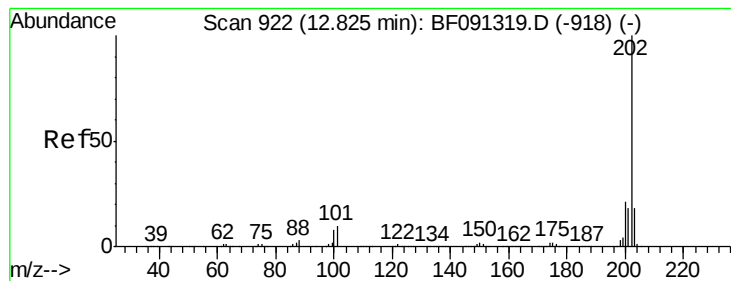


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 7.63 ng

RT: 12.81 min Scan# 921

Delta R.T. -0.03 min

Lab File: BF091412.D

Acq: 3 Dec 2016 1:52

Instrument :

BNA_F

ClientSampleId :

S12016SF-S-4

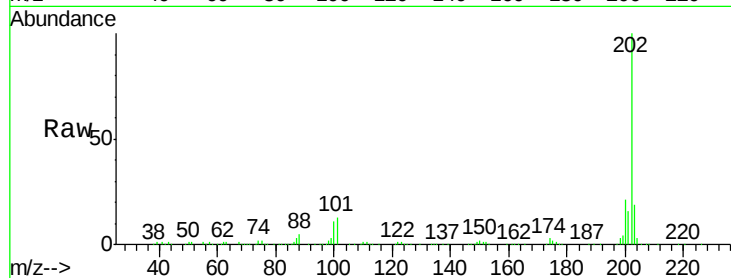
Tgt Ion: 202 Resp: 236076

Ion Ratio Lower Upper

202 100

200 21.0 17.6 26.4

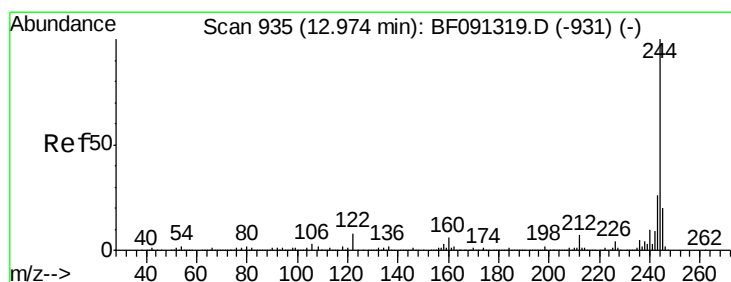
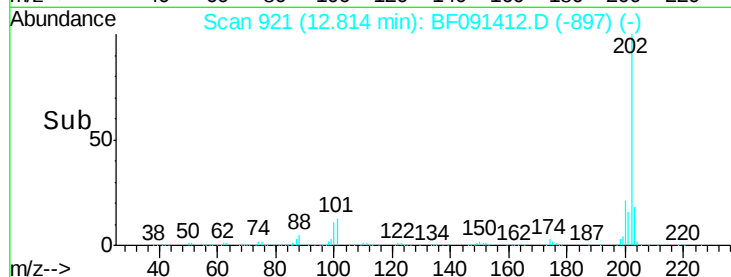
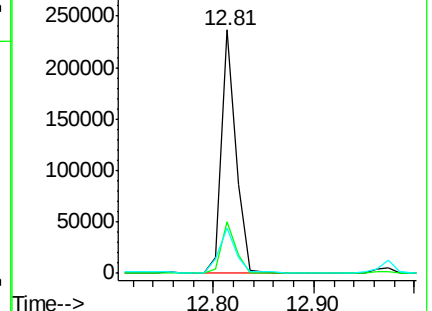
203 18.5 14.0 21.0



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: 63.47 ng

RT: 12.97 min Scan# 935

Delta R.T. -0.02 min

Lab File: BF091412.D

Acq: 3 Dec 2016 1:52

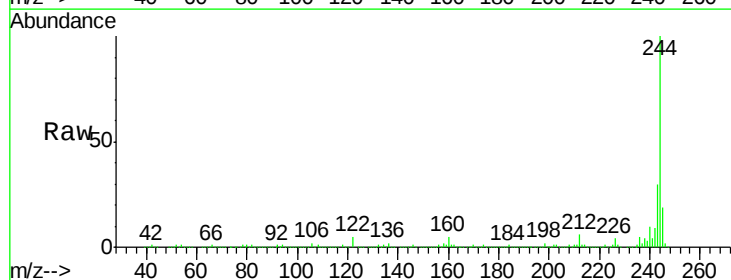
Tgt Ion: 244 Resp: 1190030

Ion Ratio Lower Upper

244 100

212 6.2 6.5 9.7#

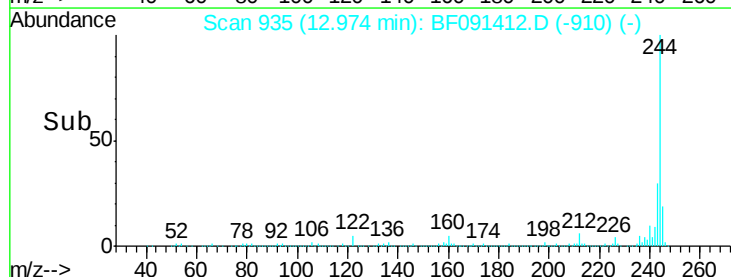
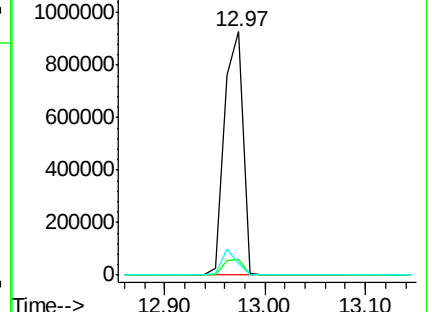
122 4.9 9.5 14.3#

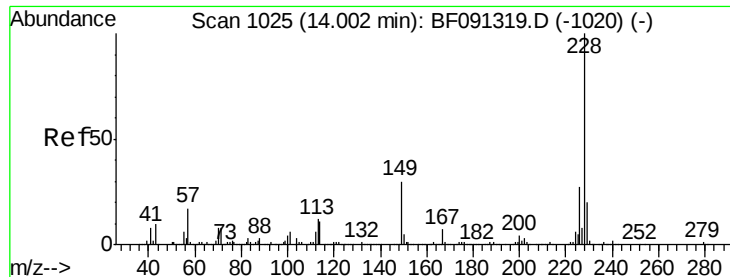


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 5.86 ng

RT: 14.00 min Scan# 1025

Delta R.T. -0.02 min

Lab File: BF091412.D

Acq: 3 Dec 2016 1:52

Instrument :

BNA_F

ClientSampleId :

S12016SF-S-4

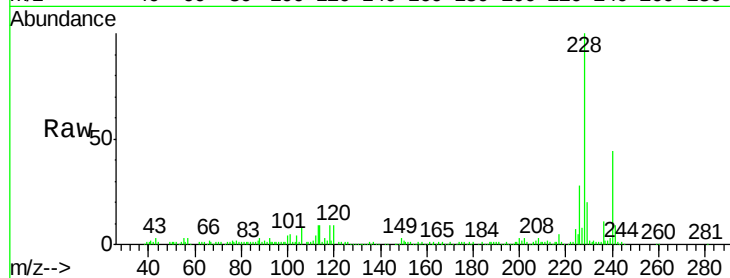
Tgt Ion: 228 Resp: 139727

Ion Ratio Lower Upper

228 100

226 28.2 22.5 33.7

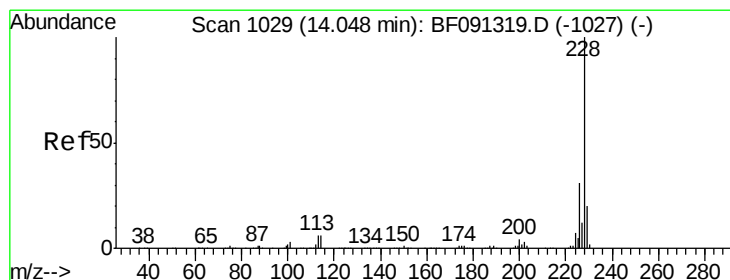
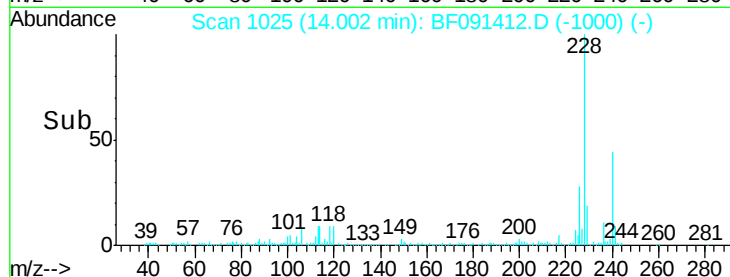
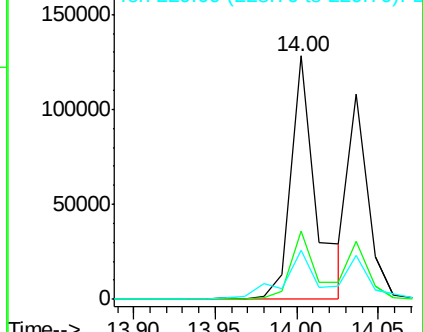
229 20.2 16.4 24.6



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



#82

Chrysene

Concen: 3.87 ng

RT: 14.04 min Scan# 1028

Delta R.T. -0.03 min

Lab File: BF091412.D

Acq: 3 Dec 2016 1:52

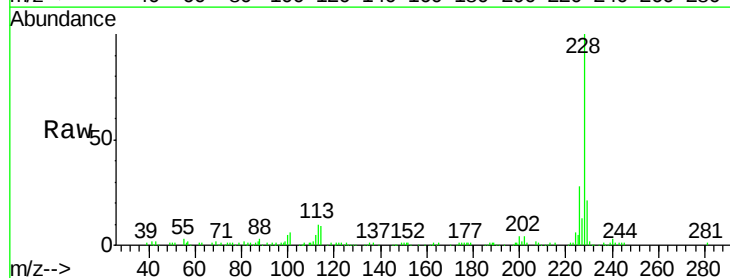
Tgt Ion: 228 Resp: 91279

Ion Ratio Lower Upper

228 100

226 28.4 25.0 37.4

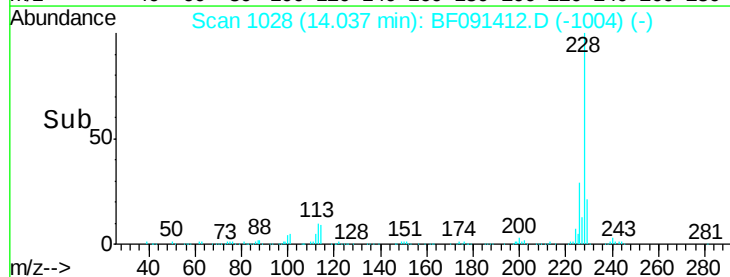
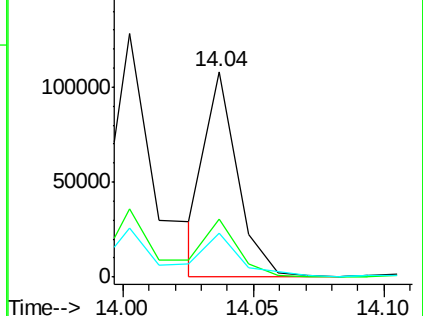
229 21.1 16.0 24.0

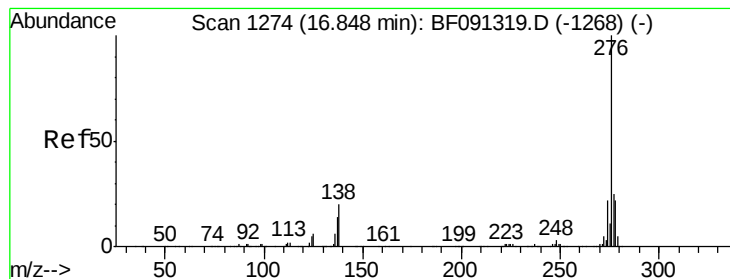


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#85

Indeno(1,2,3-cd)pyrene

Concen: 2.10 ng

RT: 16.84 min Scan# 1273

Delta R.T. -0.05 min

Lab File: BF091412.D

Acq: 3 Dec 2016 1:52

Instrument :

BNA_F

ClientSampleId :

S12016SF-S-4

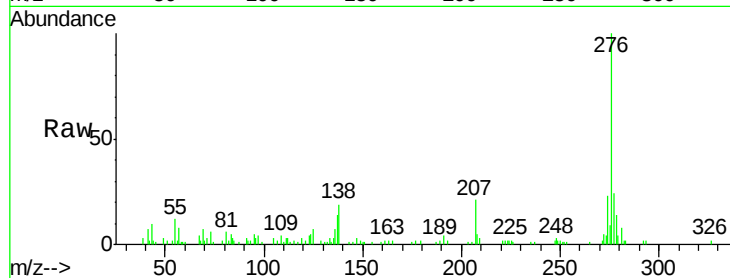
Tgt Ion:276 Resp: 45303

Ion Ratio Lower Upper

276 100

138 24.9 21.0 31.4

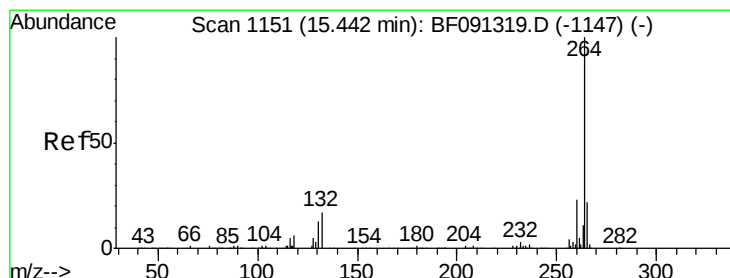
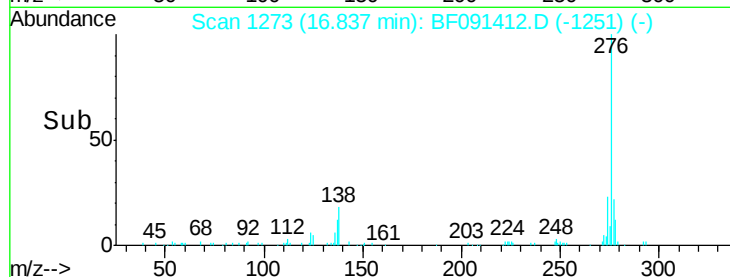
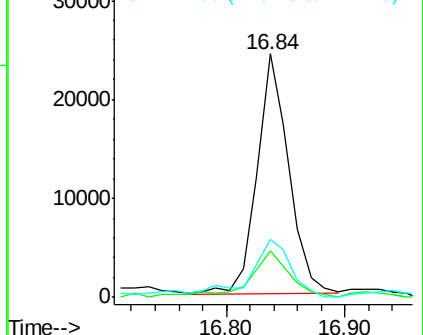
277 33.9 20.2 30.2#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#86

Perylene-d12

Concen: 20.00 ng

RT: 15.44 min Scan# 1151

Delta R.T. -0.03 min

Lab File: BF091412.D

Acq: 3 Dec 2016 1:52

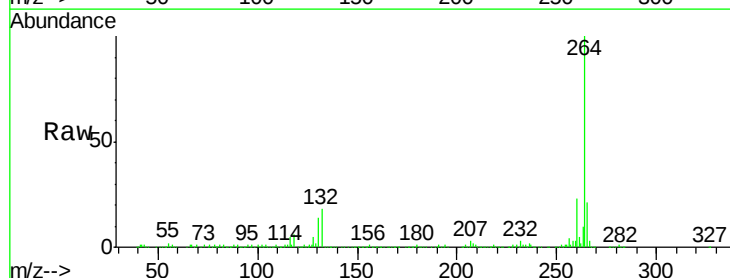
Tgt Ion:264 Resp: 313495

Ion Ratio Lower Upper

264 100

260 23.3 18.8 28.2

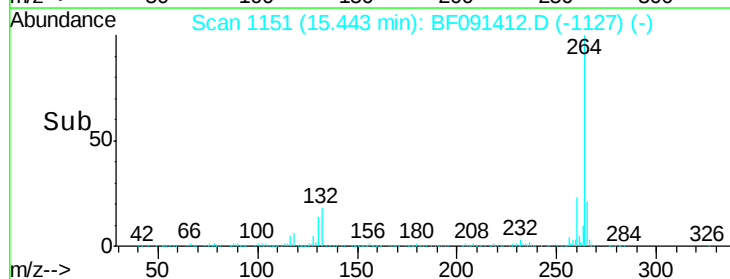
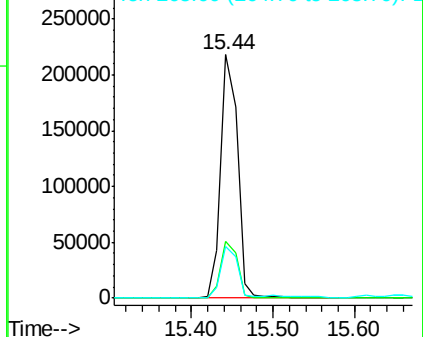
265 21.3 17.0 25.6

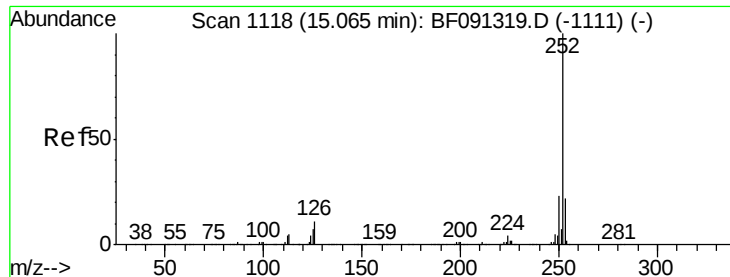


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 8.34 ng

RT: 15.03 min Scan# 1115

Delta R.T. -0.03 min

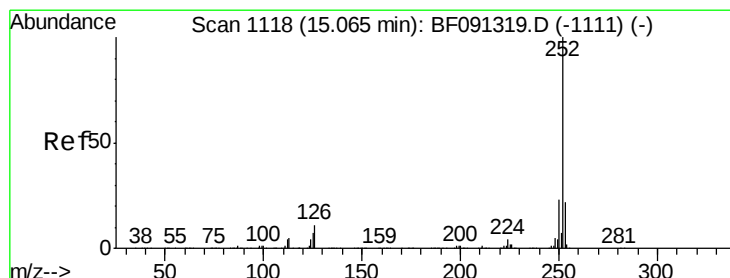
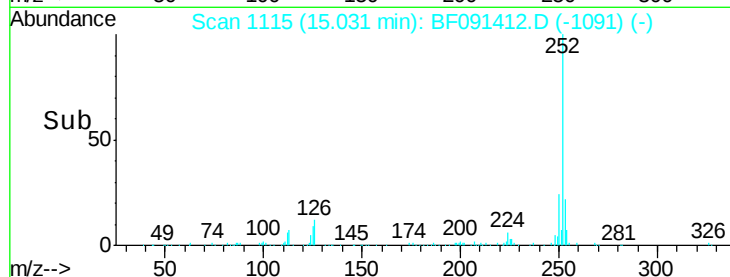
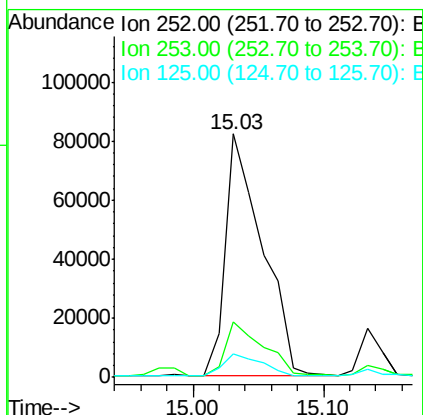
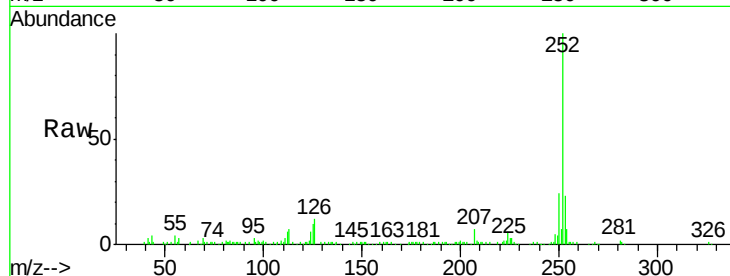
Lab File: BF091412.D

Acq: 3 Dec 2016 1:52

Instrument :
BNA_F
ClientSampleId :
S12016SF-S-4

Tgt Ion:252 Resp: 162428

Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.2	27.2
125	9.9	8.6	13.0



#88

Benzo(k)fluoranthene

Concen: 9.91 ng

RT: 15.03 min Scan# 1115

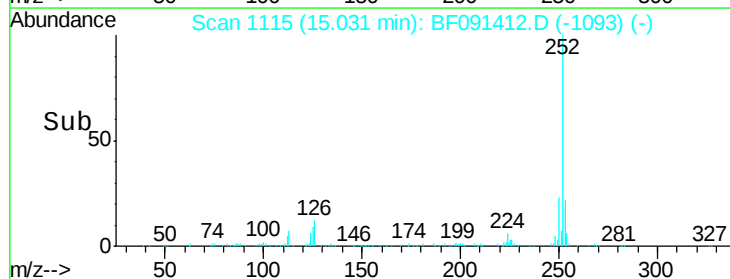
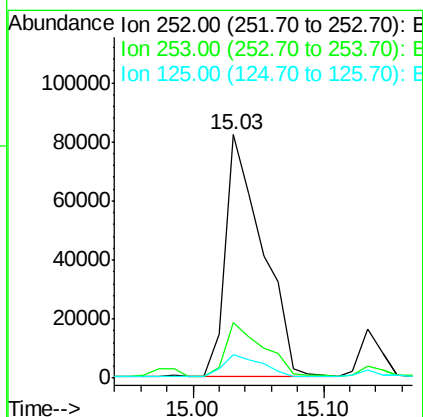
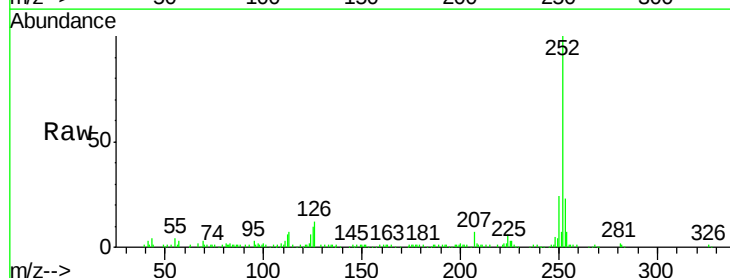
Delta R.T. -0.05 min

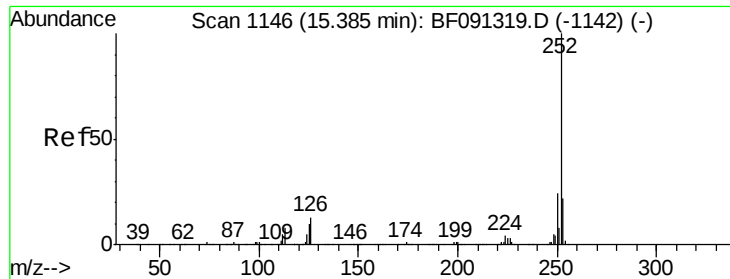
Lab File: BF091412.D

Acq: 3 Dec 2016 1:52

Tgt Ion:252 Resp: 162428

Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.8	26.8
125	9.9	9.6	14.4

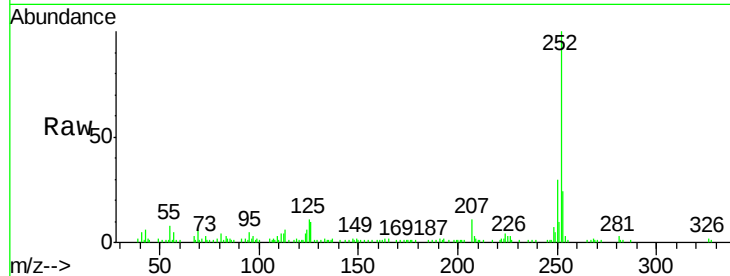




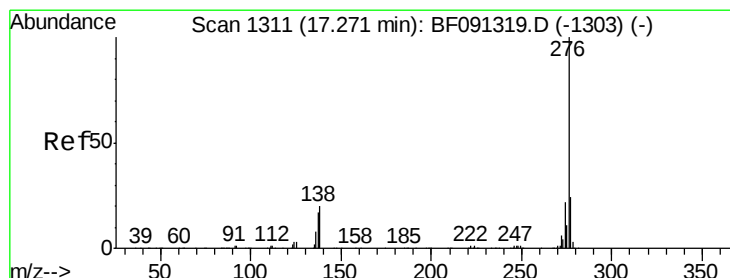
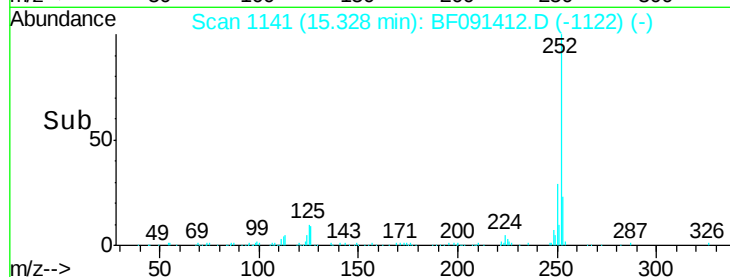
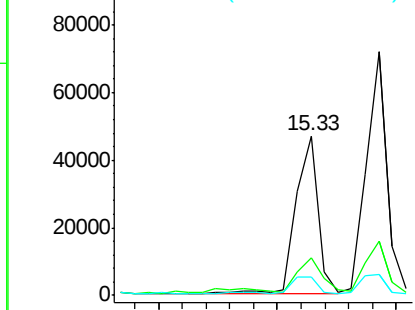
#89
Benzo(a)pyrene
Concen: 3.51 ng
RT: 15.33 min Scan# 1141
Delta R.T. -0.09 min
Lab File: BF091412.D
Acq: 3 Dec 2016 1:52

Instrument :
BNA_F
ClientSampleId :
S12016SF-S-4

Tgt Ion:252 Resp: 61405
Ion Ratio Lower Upper
252 100
253 23.7 18.2 27.4
125 11.1 10.4 15.6

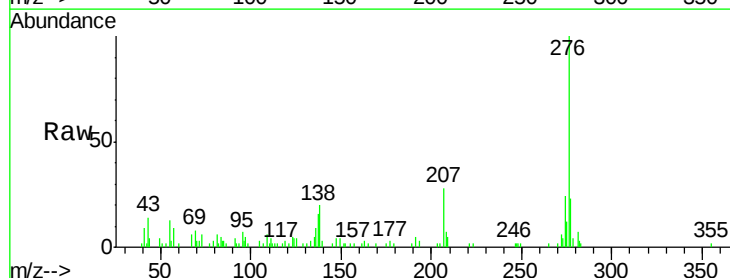


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#91
Benzo(g,h,i)perylene
Concen: 2.68 ng
RT: 17.26 min Scan# 1310
Delta R.T. -0.05 min
Lab File: BF091412.D
Acq: 3 Dec 2016 1:52

Tgt Ion:276 Resp: 44685
Ion Ratio Lower Upper
276 100
277 23.3 19.0 28.4
138 19.9 15.4 23.0



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

