

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF120216\
 Data File : BF091414.D
 Acq On : 3 Dec 2016 2:47
 Operator : UM/SJ
 Sample : H5772-04 5X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-01

Quant Time: Dec 03 03:11:15 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	174402	20.00	ng	-0.02
21) Naphthalene-d8	8.15	136	646839	20.00	ng	-0.02
38) Acenaphthene-d10	9.90	164	347261	20.00	ng	-0.02
63) Phenanthrene-d10	11.38	188	505123	20.00	ng	-0.02
75) Chrysene-d12	14.03	240	346805	20.00	ng	-0.02
86) Perylene-d12	15.47	264	329574	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.45	112	226547	21.22	ng	-0.02
7) Phenol-d6	6.48	99	322320	24.53	ng	-0.02
23) Nitrobenzene-d5	7.42	82	183599	15.91	ng	-0.03
41) 2,4,6-Tribromophenol	10.69	330	60713	18.47	ng	-0.02
44) 2-Fluorobiphenyl	9.22	172	336643	17.55	ng	-0.02
78) Terphenyl-d14	12.97	244	247531	15.51	ng	-0.02

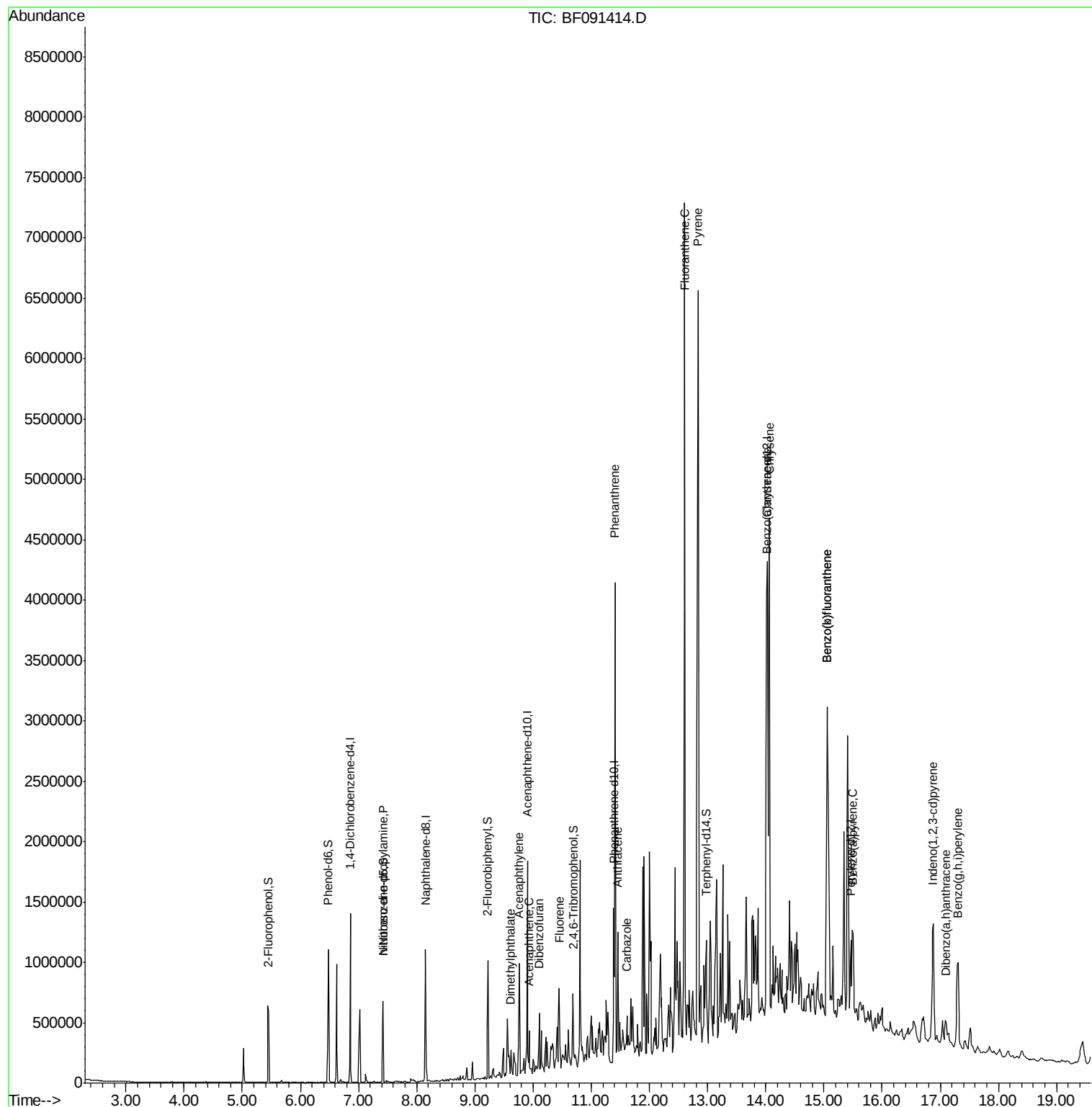
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	7.42	70	24664	2.98	ng	# 69
48) Acenaphthylene	9.76	152	370938	12.67	ng	99
49) Dimethylphthalate	9.61	163	51195	2.43	ng	# 97
51) Acenaphthene	9.93	154	74658	3.78	ng	98
54) Dibenzofuran	10.10	168	104292	3.94	ng	# 87
57) Fluorene	10.45	166	252189	12.42	ng	99
70) Phenanthrene	11.41	178	2161402	82.35	ng	100
71) Anthracene	11.45	178	575235	22.08	ng	98
72) Carbazole	11.61	167	101146	4.28	ng	97
74) Fluoranthene	12.61	202	3230810	129.95	ng	95
77) Pyrene	12.84	202	3069993	116.65	ng	97
80) Benzo(a)anthracene	14.01	228	2186320	107.80	ng	94
82) Chrysene	14.06	228	1776998	88.55	ng	97
85) Indeno(1,2,3-cd)pyrene	16.87	276	764671	41.61	ng	# 91
87) Benzo(b)fluoranthene	15.05	252	2581387	126.01	ng	99
88) Benzo(k)fluoranthene	15.05	252	2581387	149.85	ng	97
89) Benzo(a)pyrene	15.49	252	391049	21.26	ng	92
90) Dibenzo(a,h)anthracene	17.09	278	142076	8.35	ng	92
91) Benzo(g,h,i)perylene	17.31	276	696970	39.73	ng	96

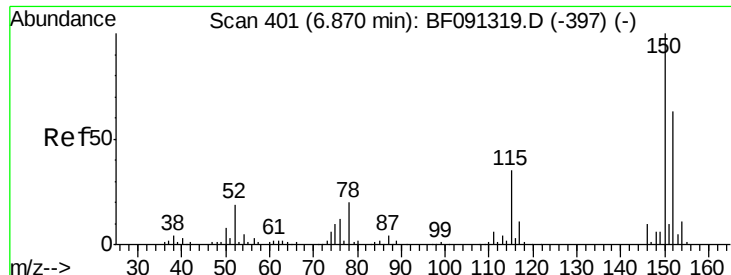
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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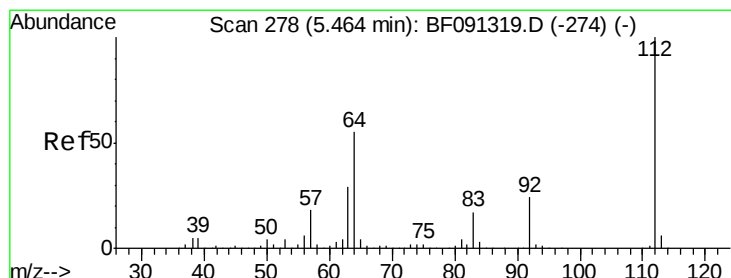
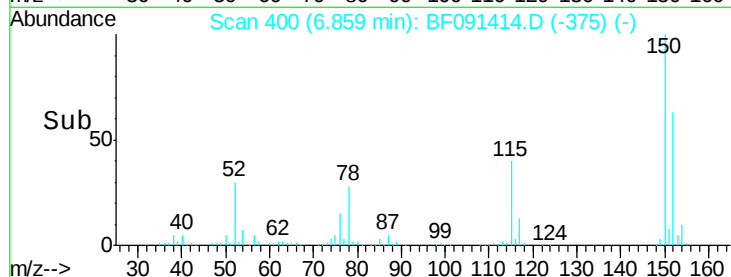
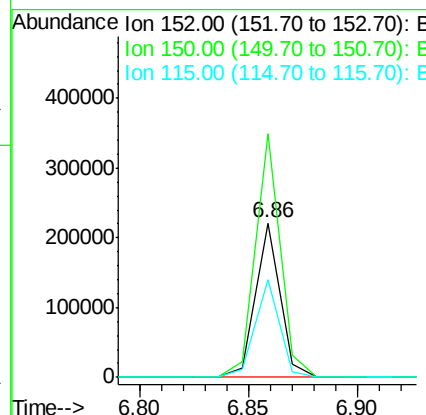
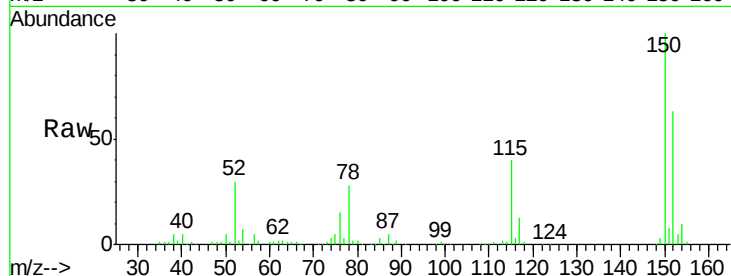




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.86 min Scan# 400
 Delta R.T. -0.02 min
 Lab File: BF091414.D
 Acq: 3 Dec 2016 2:47

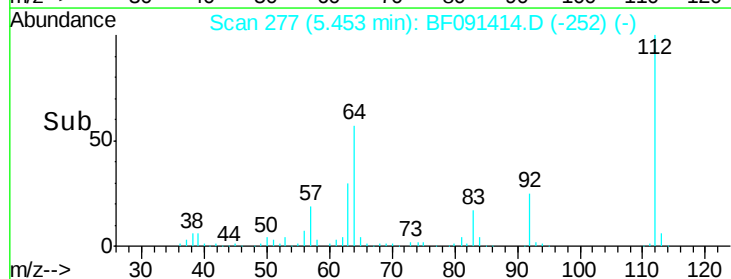
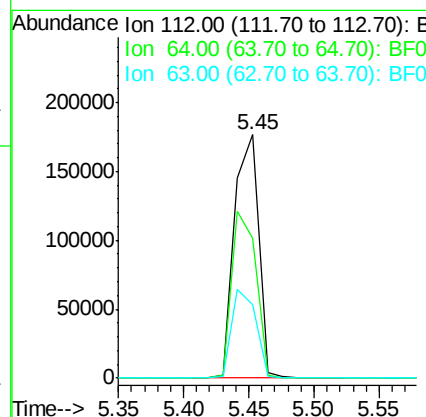
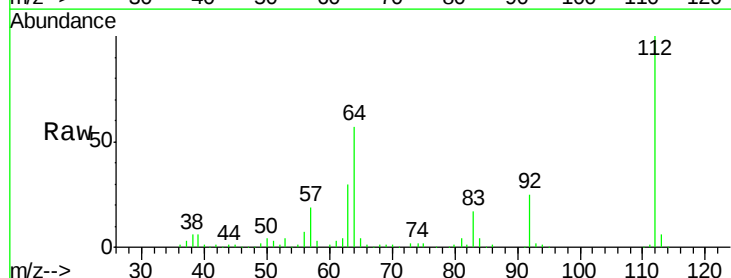
Instrument :
 BNA_F
 ClientSampleId :
 SB-01

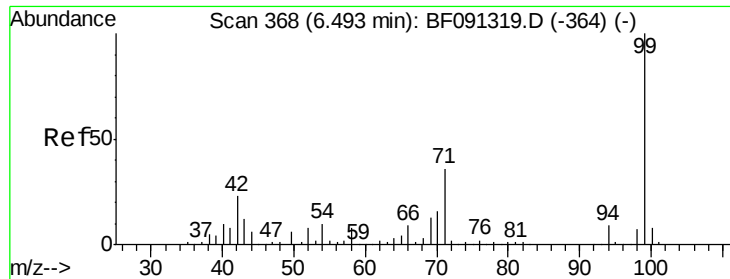
Tgt Ion:152 Resp: 174402
 Ion Ratio Lower Upper
 152 100
 150 158.0 122.5 183.7
 115 63.6 51.8 77.8



#5
 2-Fluorophenol
 Concen: 21.22 ng
 RT: 5.45 min Scan# 277
 Delta R.T. -0.02 min
 Lab File: BF091414.D
 Acq: 3 Dec 2016 2:47

Tgt Ion:112 Resp: 226547
 Ion Ratio Lower Upper
 112 100
 64 57.3 61.5 92.3#
 63 29.9 33.3 49.9#





#7

Phenol-d6

Concen: 24.53 ng

RT: 6.48 min Scan# 367

Delta R.T. -0.02 min

Lab File: BF091414.D

Acq: 3 Dec 2016 2:47

Instrument :

BNA_F

ClientSampled :

SB-01

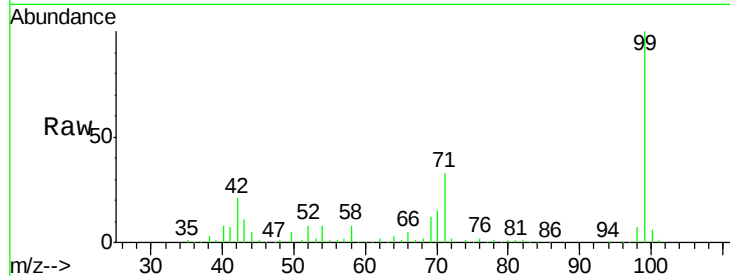
Tgt Ion: 99 Resp: 322320

Ion Ratio Lower Upper

99 100

42 21.0 20.6 31.0

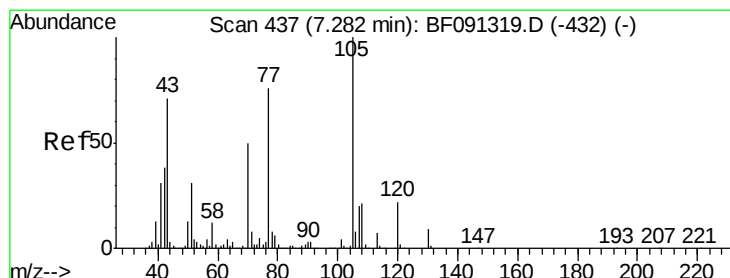
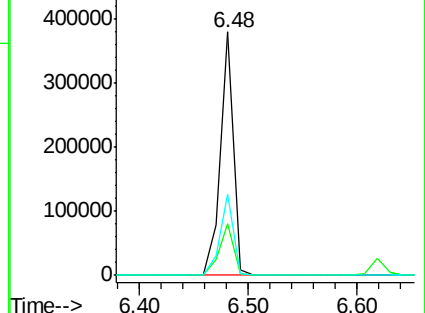
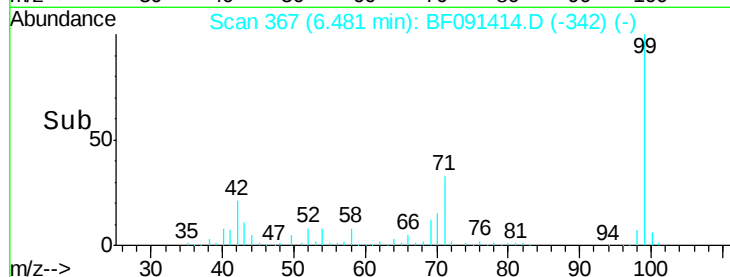
71 33.4 29.9 44.9



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



#19

n-Nitroso-di-n-propylamine

Concen: 2.98 ng

RT: 7.42 min Scan# 449

Delta R.T. 0.12 min

Lab File: BF091414.D

Acq: 3 Dec 2016 2:47

Tgt Ion: 70 Resp: 24664

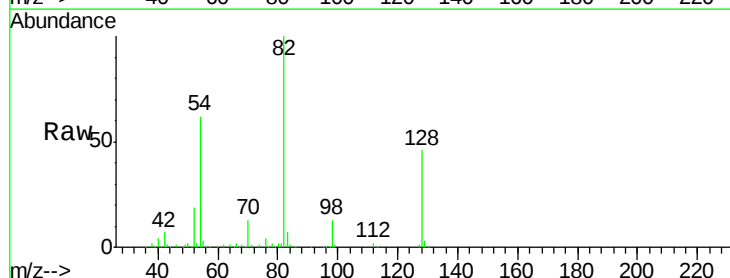
Ion Ratio Lower Upper

70 100

42 51.9 64.8 97.2#

101 0.0 6.2 9.4#

130 3.0 11.7 17.5#

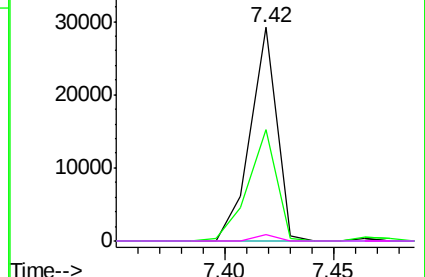
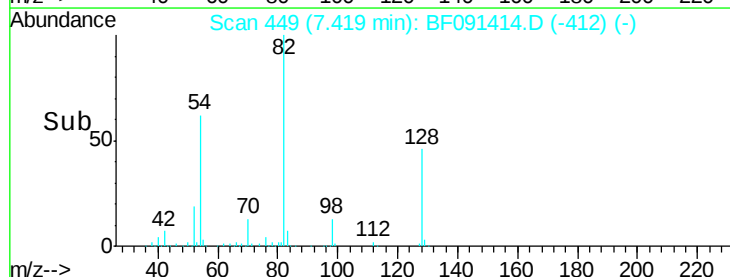


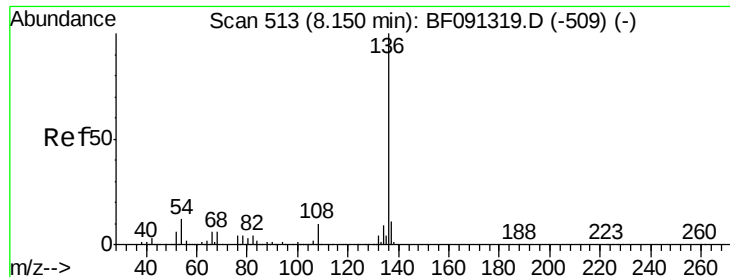
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.15 min Scan# 513

Delta R.T. -0.02 min

Lab File: BF091414.D

Acq: 3 Dec 2016 2:47

Instrument :

BNA_F

ClientSampleId :

SB-01

Tgt Ion: 136 Resp: 646839

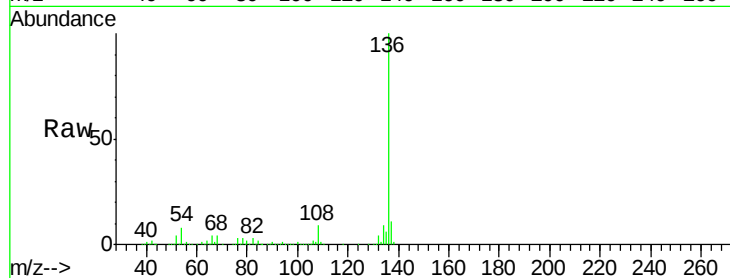
Ion Ratio Lower Upper

136 100

137 10.6 9.1 13.7

54 7.6 9.1 13.7#

68 3.8 5.9 8.9#

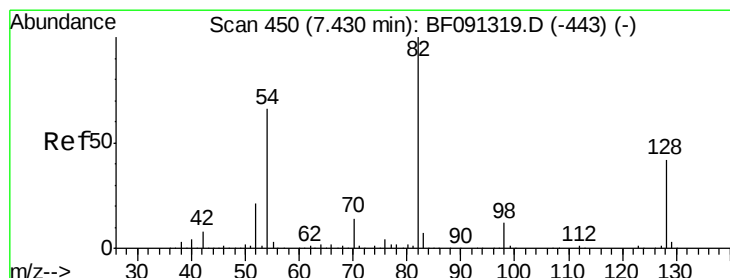
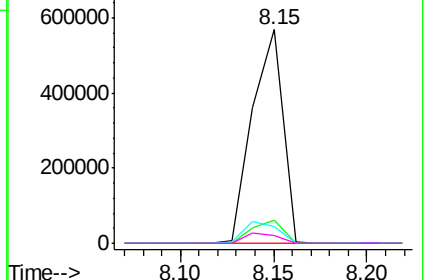
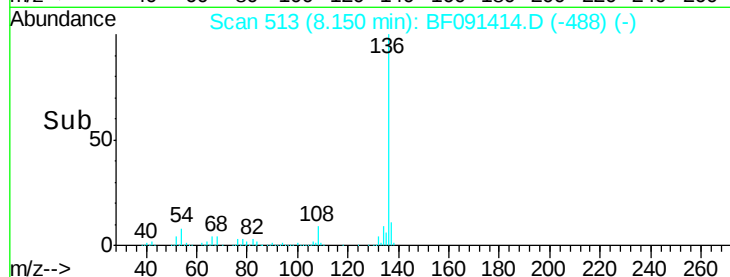


Abundance Ion 136.00 (135.70 to 136.70): E

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: 15.91 ng

RT: 7.42 min Scan# 449

Delta R.T. -0.03 min

Lab File: BF091414.D

Acq: 3 Dec 2016 2:47

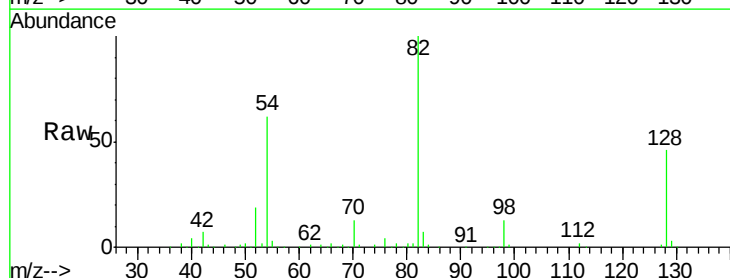
Tgt Ion: 82 Resp: 183599

Ion Ratio Lower Upper

82 100

128 45.6 31.8 47.6

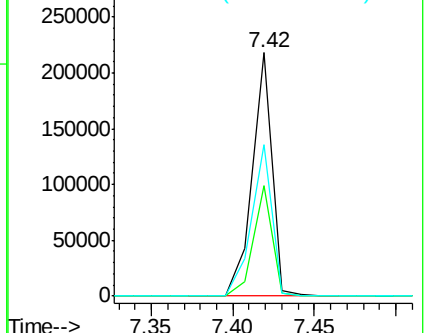
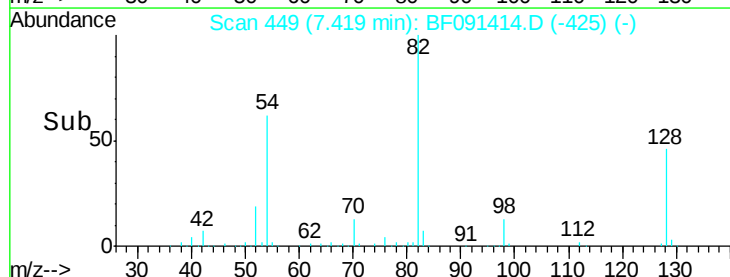
54 62.4 49.1 73.7

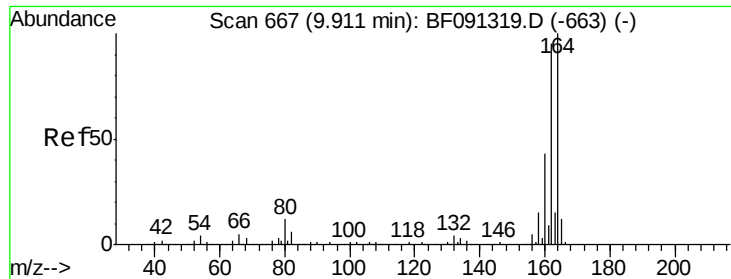


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

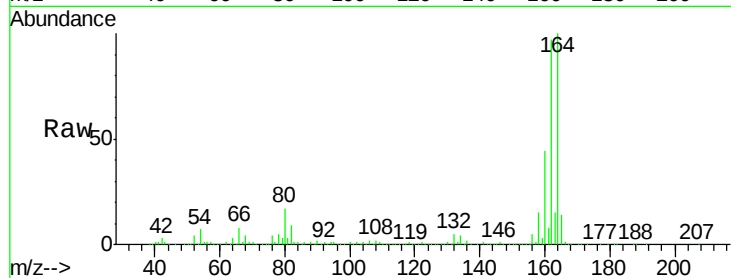




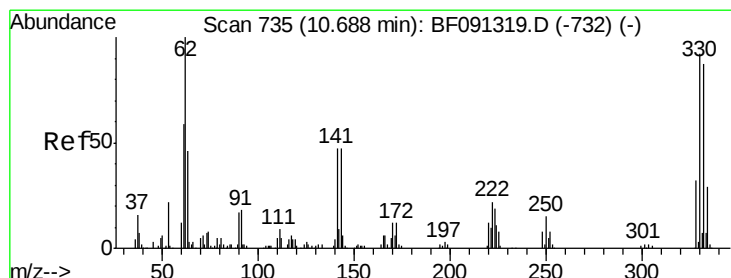
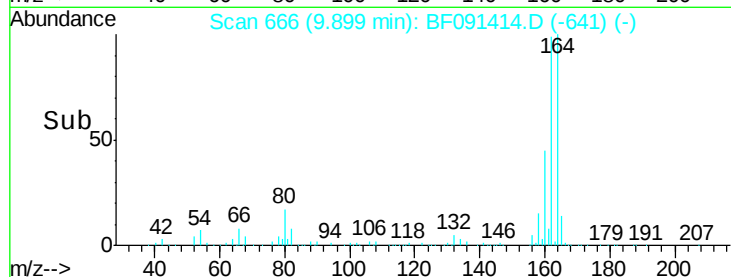
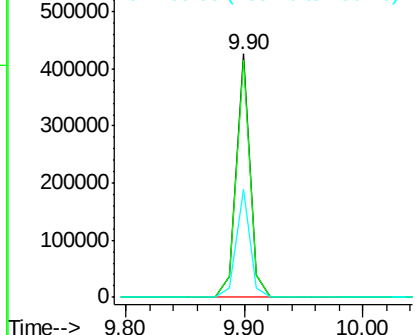
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.90 min Scan# 666
Delta R.T. -0.02 min
Lab File: BF091414.D
Acq: 3 Dec 2016 2:47

Instrument :
BNA_F
ClientSampleId :
SB-01

Tgt Ion:164 Resp: 347261
Ion Ratio Lower Upper
164 100
162 97.5 82.6 124.0
160 44.2 36.7 55.1

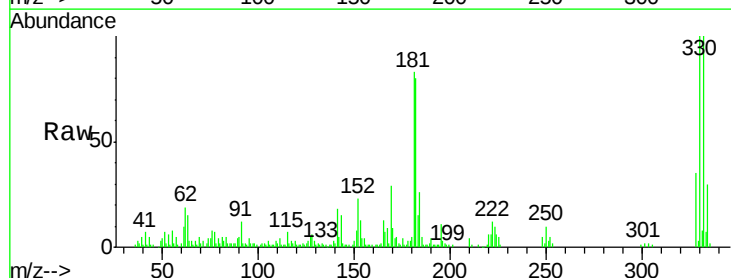


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

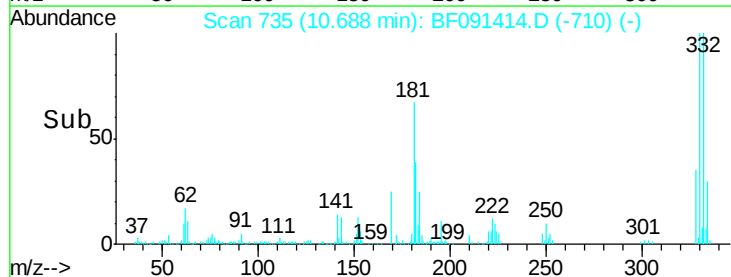
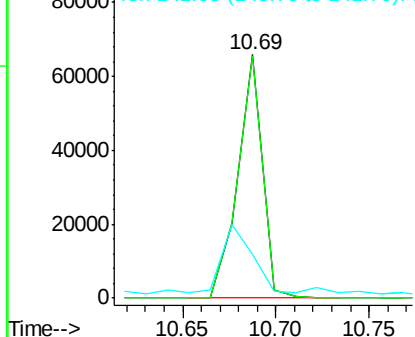


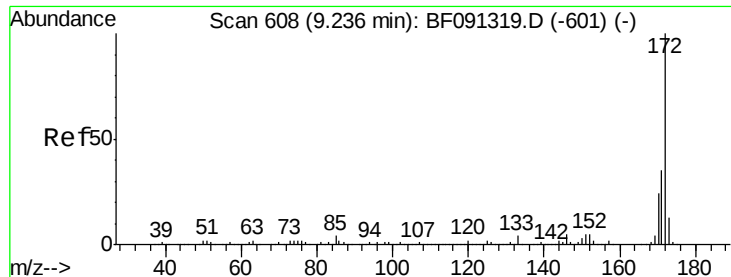
#41
2,4,6-Tribromophenol
Concen: 18.47 ng
RT: 10.69 min Scan# 735
Delta R.T. -0.02 min
Lab File: BF091414.D
Acq: 3 Dec 2016 2:47

Tgt Ion:330 Resp: 60713
Ion Ratio Lower Upper
330 100
332 100.1 76.2 114.4
141 36.7 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

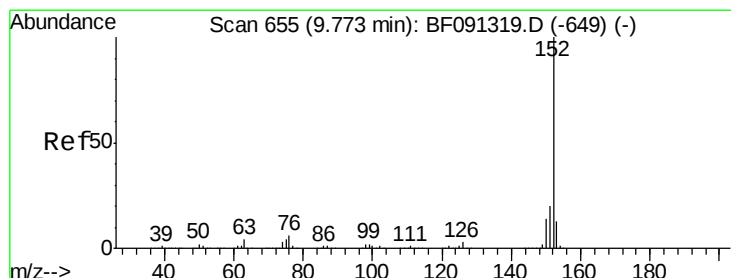
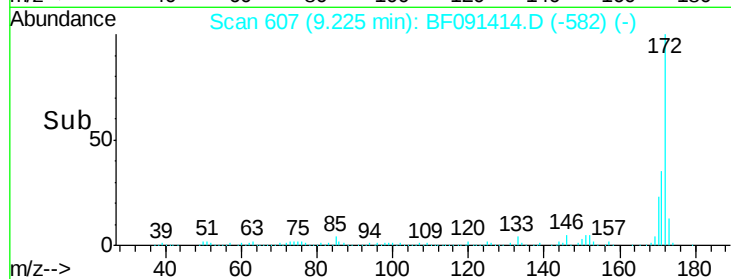
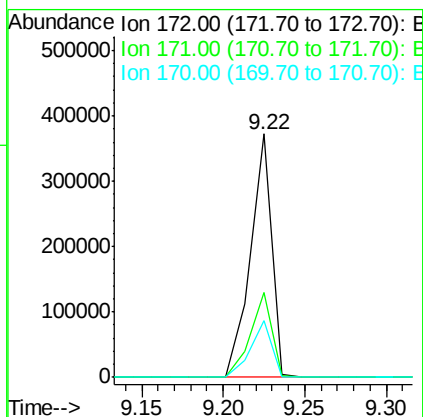
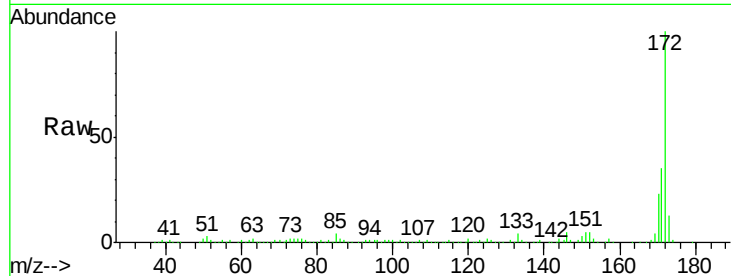




#44
 2-Fluorobiphenyl
 Concen: 17.55 ng
 RT: 9.22 min Scan# 607
 Delta R.T. -0.02 min
 Lab File: BF091414.D
 Acq: 3 Dec 2016 2:47

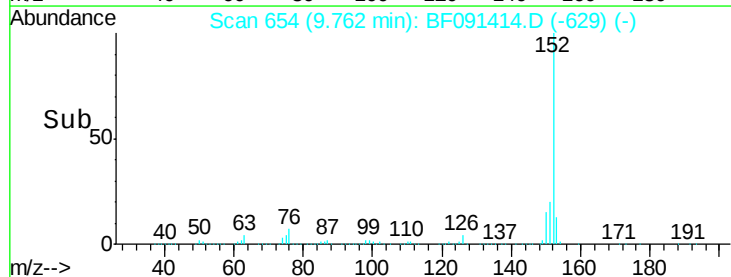
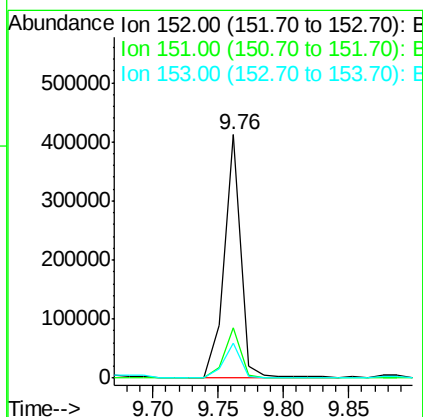
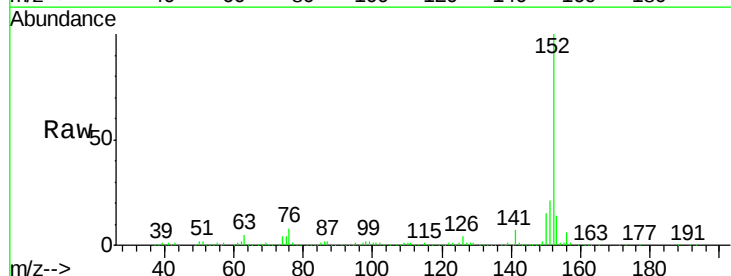
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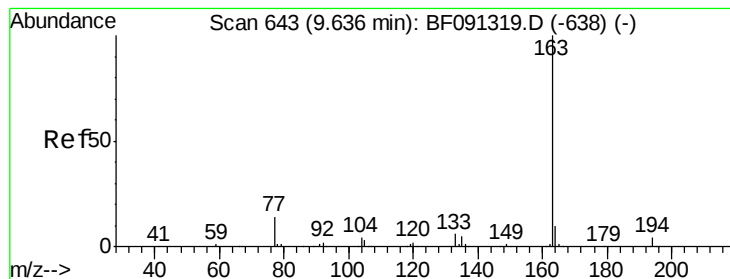
Tgt Ion:172 Resp: 336643
 Ion Ratio Lower Upper
 172 100
 171 34.7 29.4 44.0
 170 23.5 19.7 29.5



#48
 Acenaphthylene
 Concen: 12.67 ng
 RT: 9.76 min Scan# 654
 Delta R.T. -0.02 min
 Lab File: BF091414.D
 Acq: 3 Dec 2016 2:47

Tgt Ion:152 Resp: 370938
 Ion Ratio Lower Upper
 152 100
 151 20.5 16.6 24.8
 153 14.4 10.7 16.1





#49

Dimethylphthalate

Concen: 2.43 ng

RT: 9.61 min Scan# 641

Delta R.T. -0.04 min

Lab File: BF091414.D

Acq: 3 Dec 2016 2:47

Instrument :

BNA_F

ClientSampleId :

SB-01

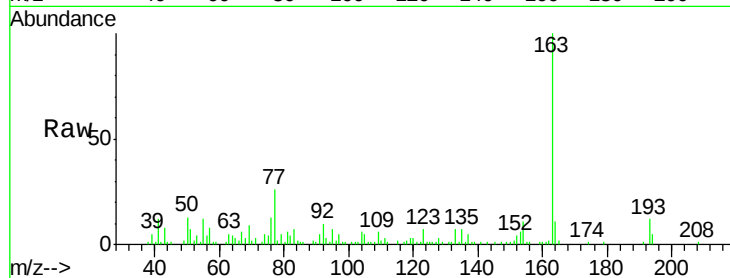
Tgt Ion:163 Resp: 51195

Ion Ratio Lower Upper

163 100

194 5.0 3.0 4.4#

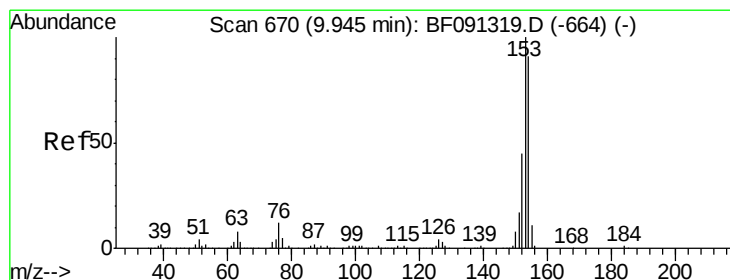
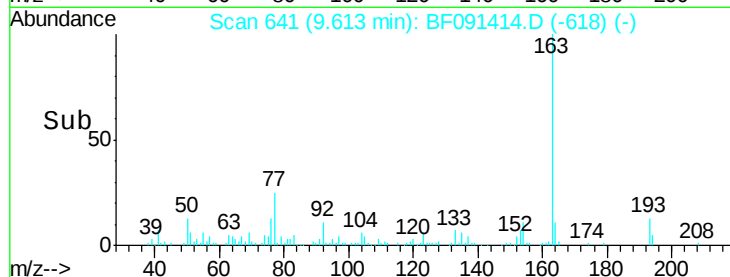
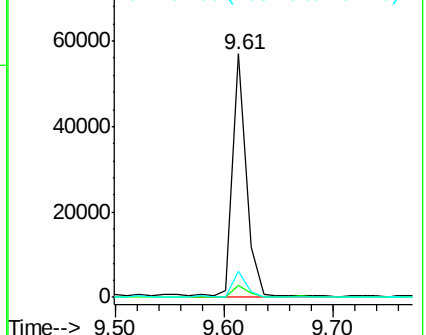
164 10.6 7.8 11.8



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



#51

Acenaphthene

Concen: 3.78 ng

RT: 9.93 min Scan# 669

Delta R.T. -0.02 min

Lab File: BF091414.D

Acq: 3 Dec 2016 2:47

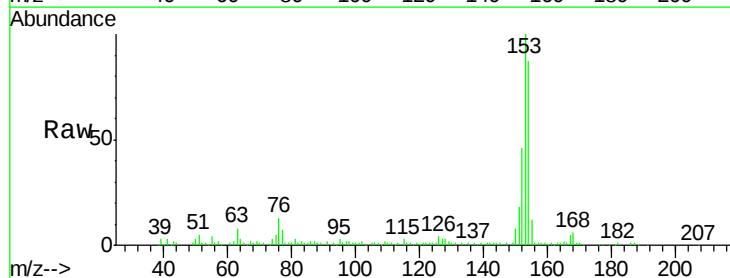
Tgt Ion:154 Resp: 74658

Ion Ratio Lower Upper

154 100

153 115.2 91.0 136.6

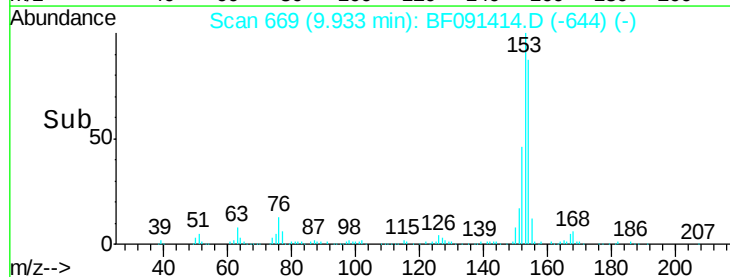
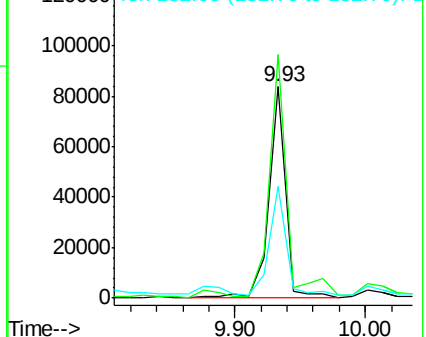
152 53.1 44.2 66.2

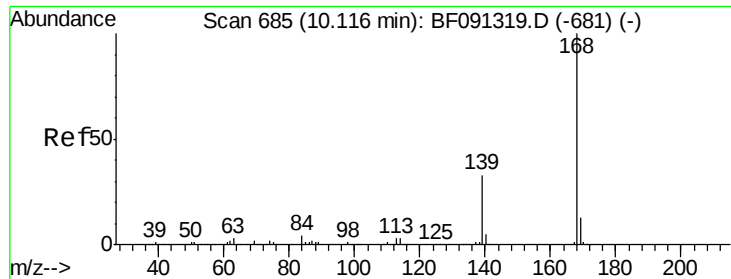


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

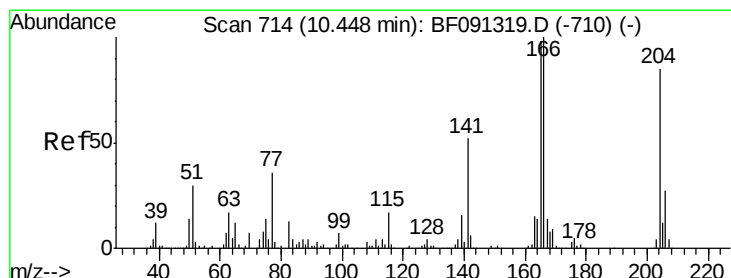
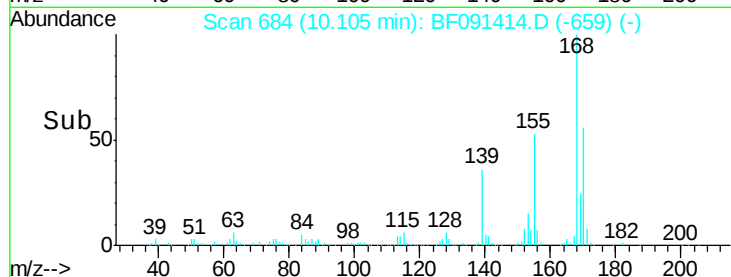
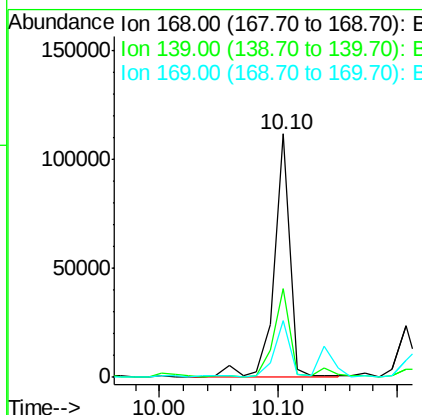
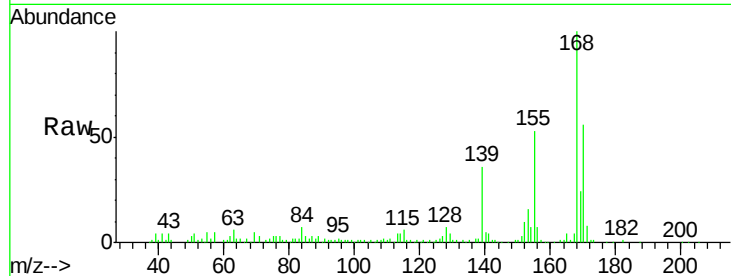




#54
Dibenzofuran
Concen: 3.94 ng
RT: 10.10 min Scan# 684
Delta R.T. -0.02 min
Lab File: BF091414.D
Acq: 3 Dec 2016 2:47

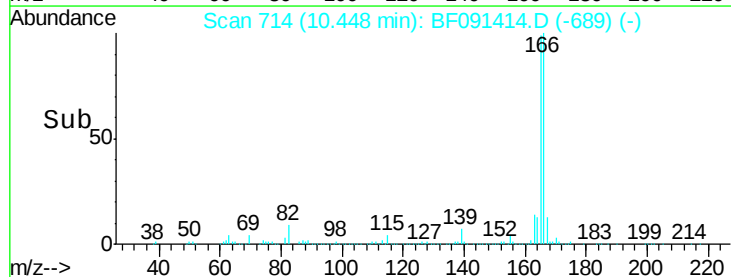
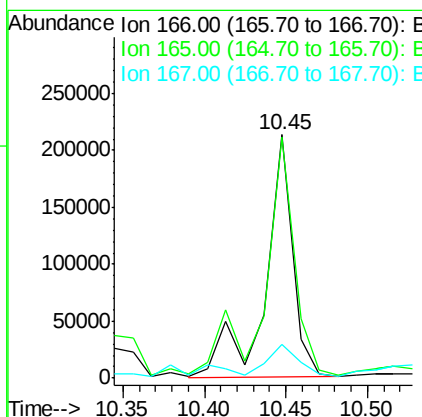
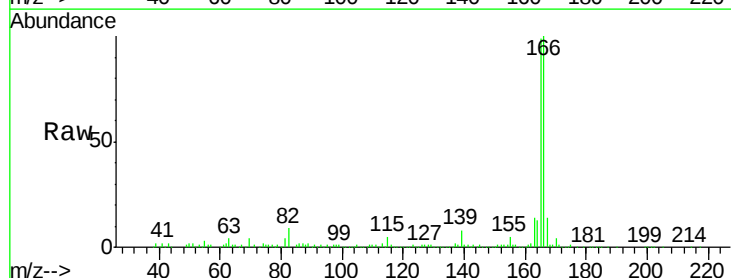
Instrument :
BNA_F
ClientSampled :
SB-01

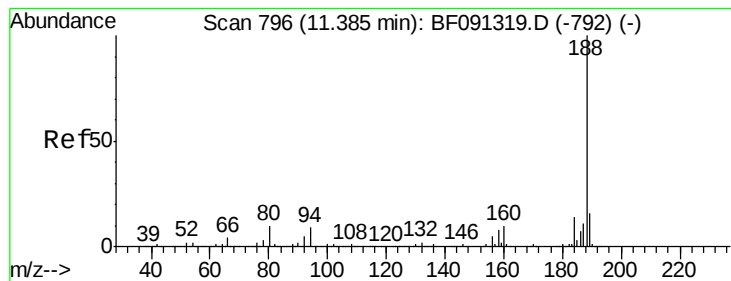
Tgt Ion:168 Resp: 104292
Ion Ratio Lower Upper
168 100
139 36.2 33.4 50.2
169 23.6 11.1 16.7#



#57
Fluorene
Concen: 12.42 ng
RT: 10.45 min Scan# 714
Delta R.T. -0.02 min
Lab File: BF091414.D
Acq: 3 Dec 2016 2:47

Tgt Ion:166 Resp: 252189
Ion Ratio Lower Upper
166 100
165 99.1 80.0 120.0
167 13.6 10.8 16.2





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.38 min Scan# 796

Delta R.T. -0.02 min

Lab File: BF091414.D

Acq: 3 Dec 2016 2:47

Instrument :

BNA_F

ClientSampleId :

SB-01

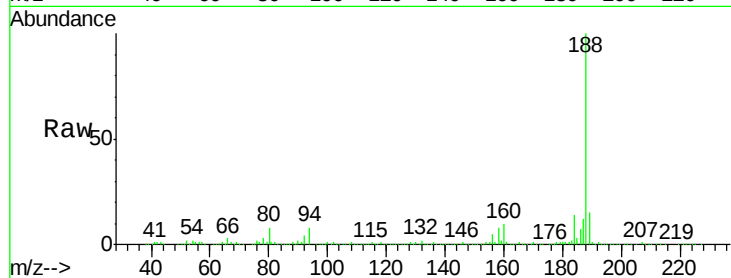
Tgt Ion:188 Resp: 505123

Ion Ratio Lower Upper

188 100

94 7.7 9.2 13.8#

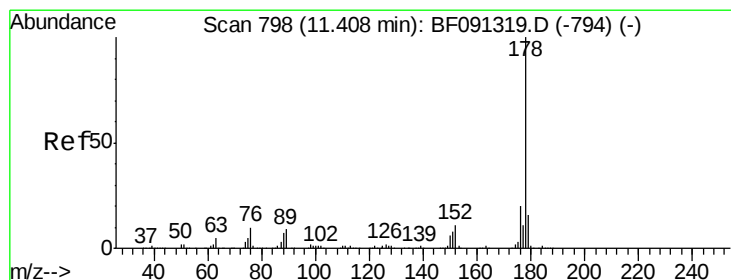
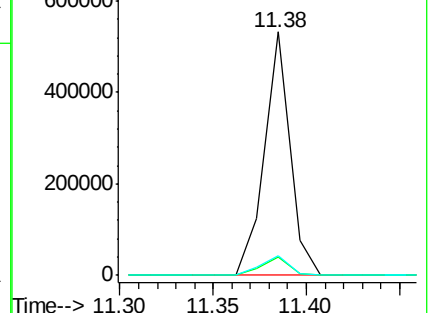
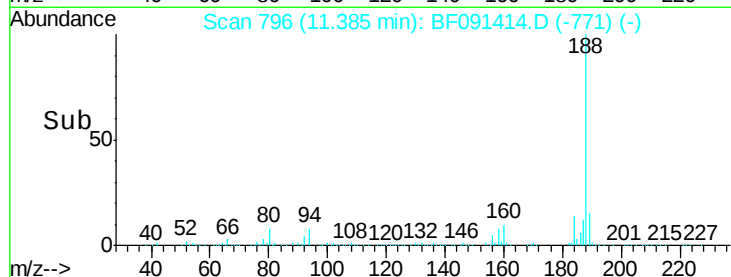
80 8.2 10.5 15.7#



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



#70

Phenanthrene

Concen: 82.35 ng

RT: 11.41 min Scan# 798

Delta R.T. -0.02 min

Lab File: BF091414.D

Acq: 3 Dec 2016 2:47

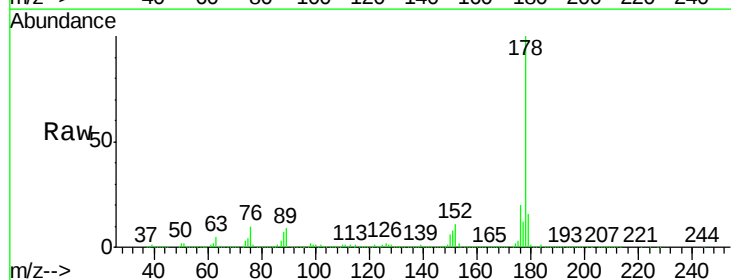
Tgt Ion:178 Resp: 2161402

Ion Ratio Lower Upper

178 100

176 20.0 15.9 23.9

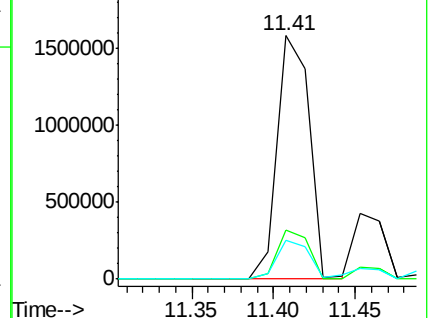
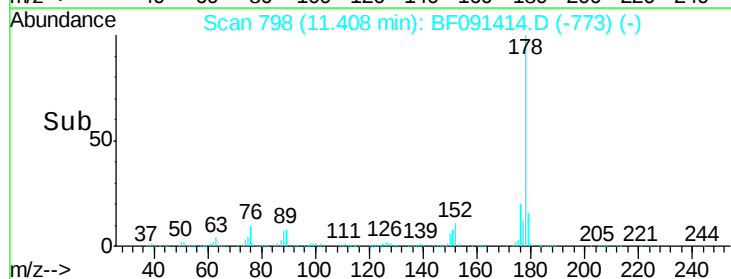
179 16.1 12.6 18.8

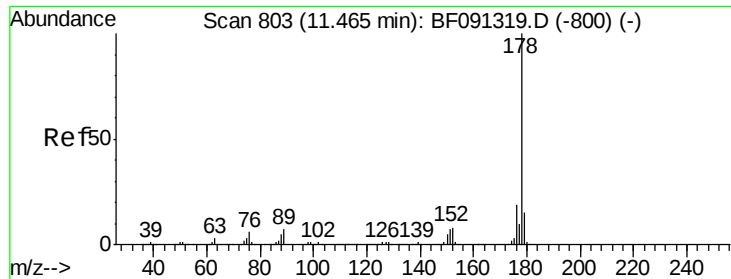


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 22.08 ng

RT: 11.45 min Scan# 802

Delta R.T. -0.03 min

Lab File: BF091414.D

Acq: 3 Dec 2016 2:47

Instrument :

BNA_F

ClientSampleId :

SB-01

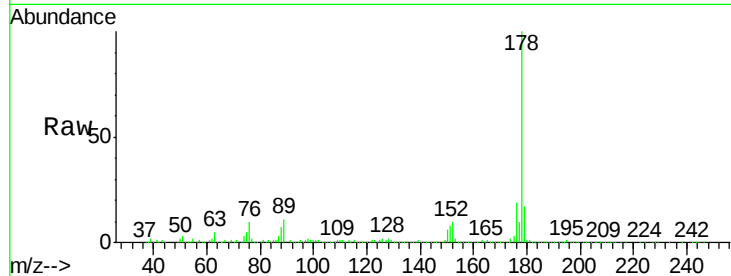
Tgt Ion:178 Resp: 575235

Ion Ratio Lower Upper

178 100

176 18.6 15.8 23.6

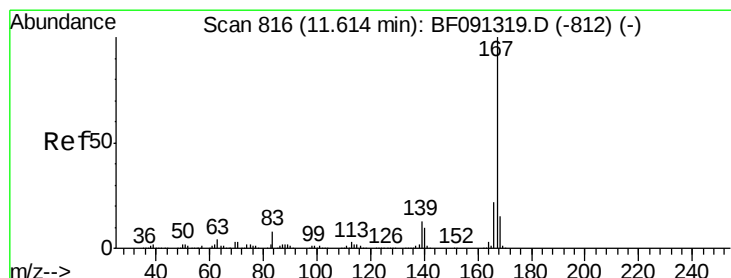
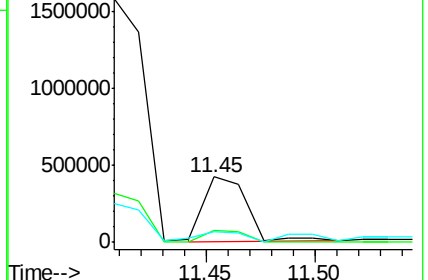
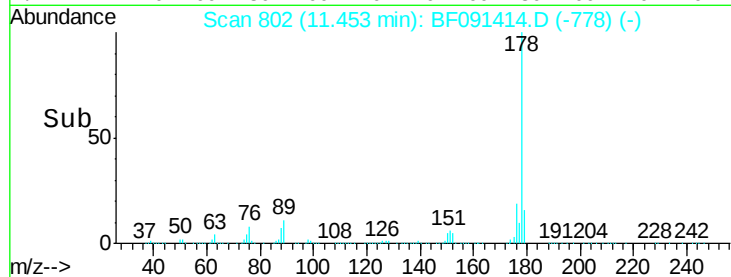
179 16.6 12.7 19.1



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Carbazole

Concen: 4.28 ng

RT: 11.61 min Scan# 816

Delta R.T. -0.02 min

Lab File: BF091414.D

Acq: 3 Dec 2016 2:47

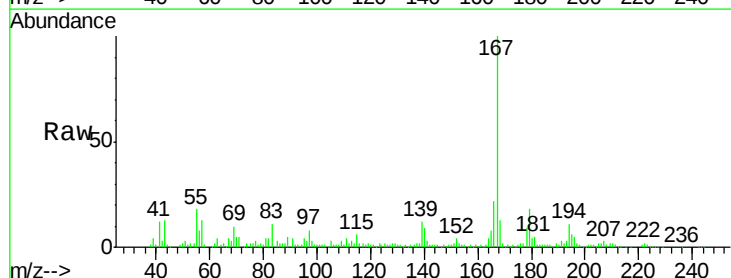
Tgt Ion:167 Resp: 101146

Ion Ratio Lower Upper

167 100

166 21.6 18.1 27.1

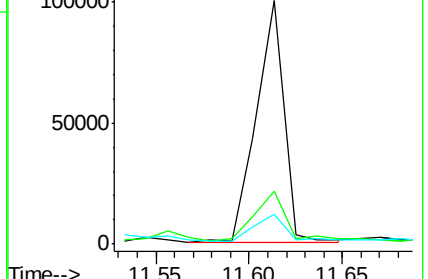
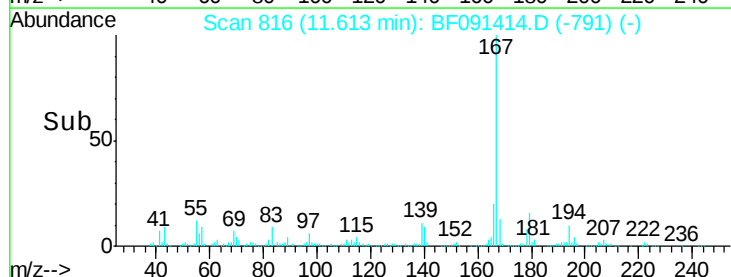
139 12.3 11.5 17.3

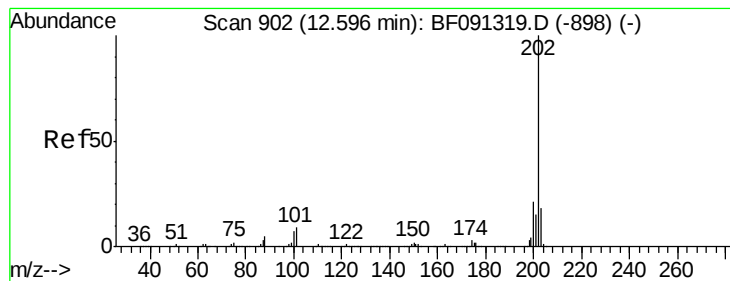


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 129.95 ng

RT: 12.61 min Scan# 903

Delta R.T. -0.01 min

Lab File: BF091414.D

Acq: 3 Dec 2016 2:47

Instrument :

BNA_F

ClientSampleId :

SB-01

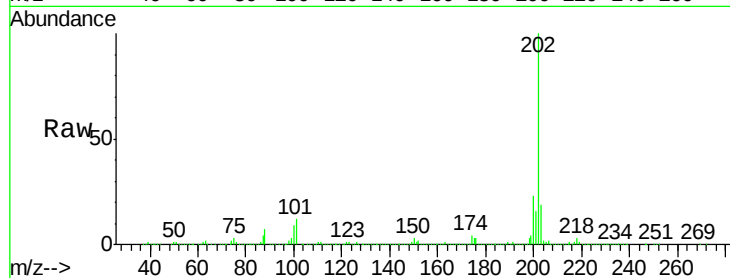
Tgt Ion:202 Resp: 3230810

Ion Ratio Lower Upper

202 100

101 12.5 0.0 29.5

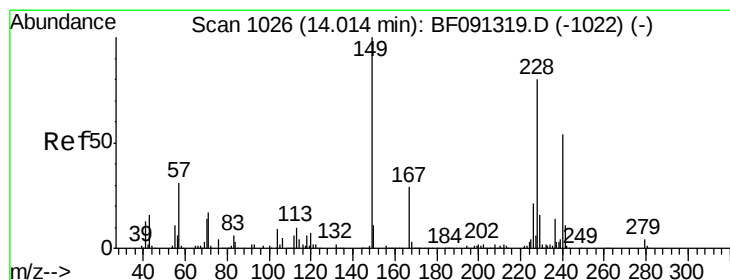
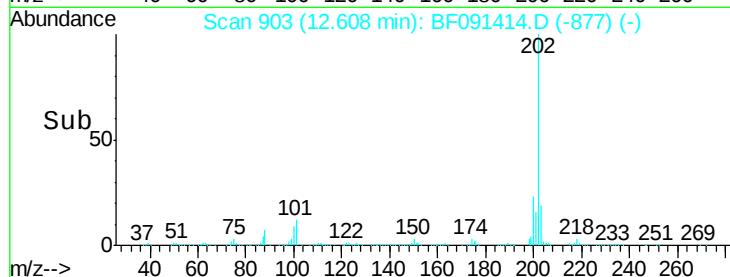
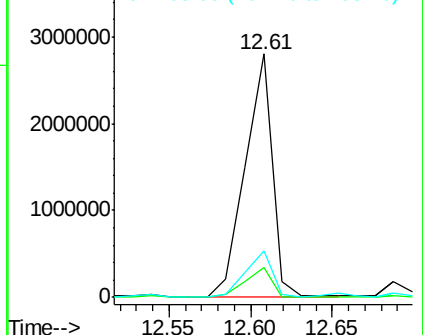
203 19.2 0.0 37.8



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: 14.03 min Scan# 1027

Delta R.T. -0.02 min

Lab File: BF091414.D

Acq: 3 Dec 2016 2:47

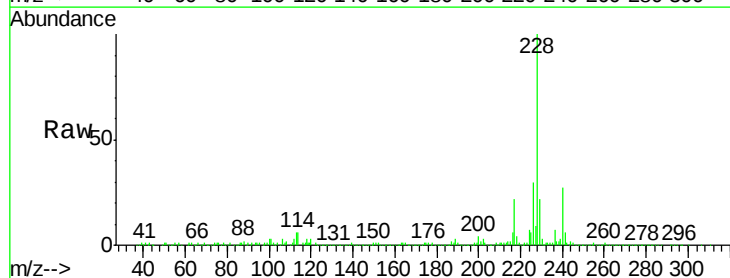
Tgt Ion:240 Resp: 346805

Ion Ratio Lower Upper

240 100

120 12.5 12.1 18.1

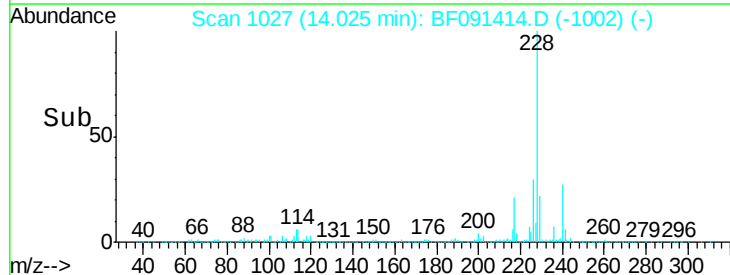
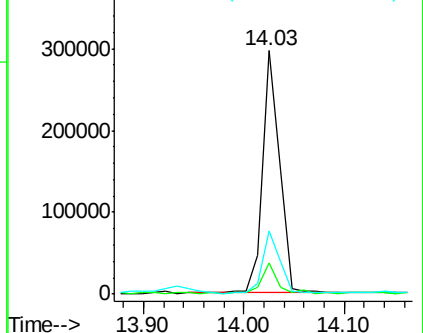
236 26.0 21.0 31.6

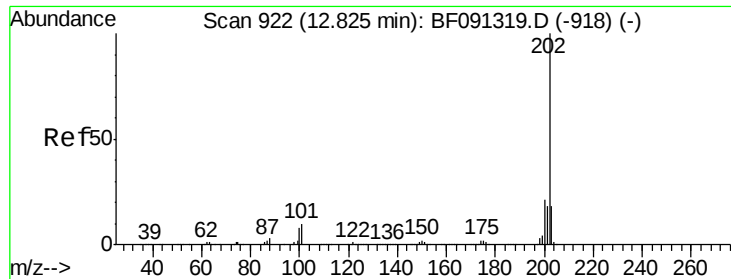


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 116.65 ng

RT: 12.84 min Scan# 923

Delta R.T. -0.01 min

Lab File: BF091414.D

Acq: 3 Dec 2016 2:47

Instrument :

BNA_F

ClientSampleId :

SB-01

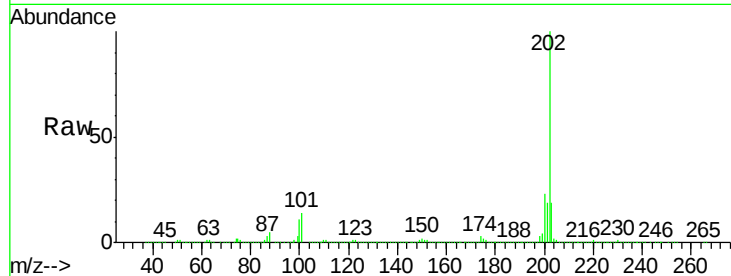
Tgt Ion:202 Resp: 3069993

Ion Ratio Lower Upper

202 100

200 22.9 17.6 26.4

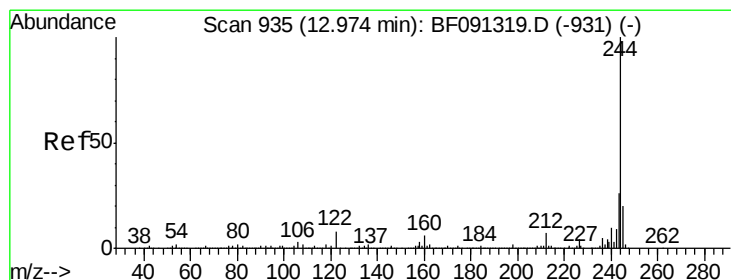
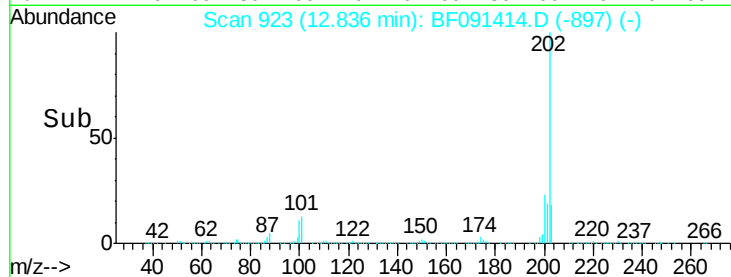
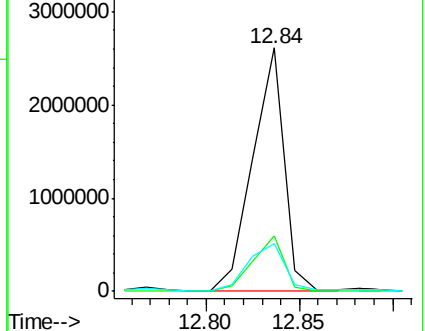
203 19.4 14.0 21.0



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: 15.51 ng

RT: 12.97 min Scan# 935

Delta R.T. -0.02 min

Lab File: BF091414.D

Acq: 3 Dec 2016 2:47

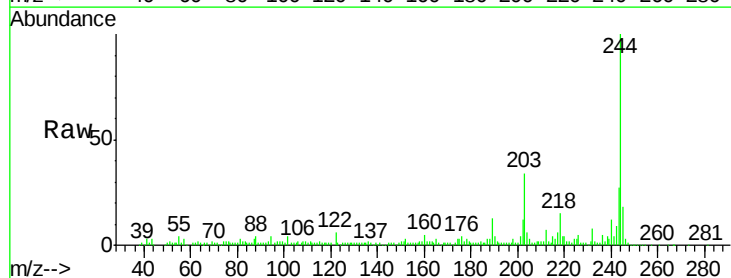
Tgt Ion:244 Resp: 247531

Ion Ratio Lower Upper

244 100

212 6.6 6.5 9.7

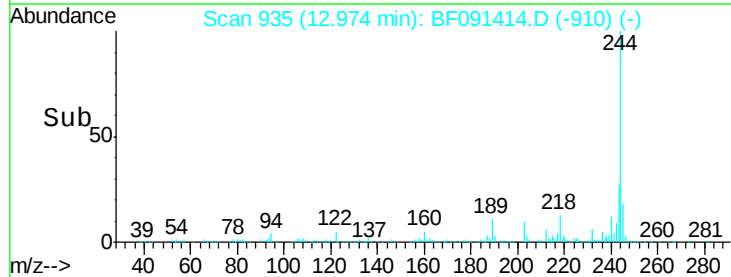
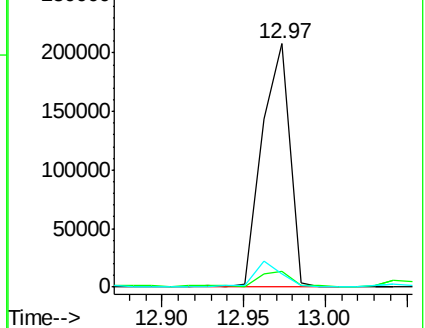
122 5.7 9.5 14.3#

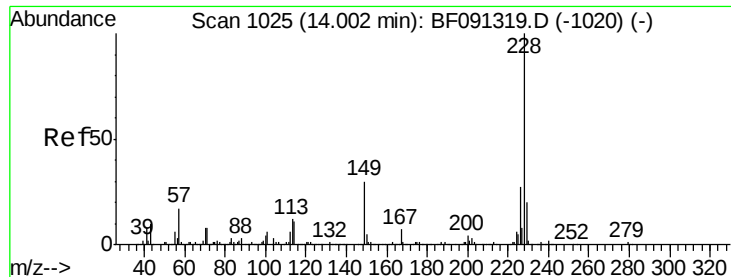


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 107.80 ng

RT: 14.01 min Scan# 1026

Delta R.T. -0.01 min

Lab File: BF091414.D

Acq: 3 Dec 2016 2:47

Instrument :

BNA_F

ClientSampleId :

SB-01

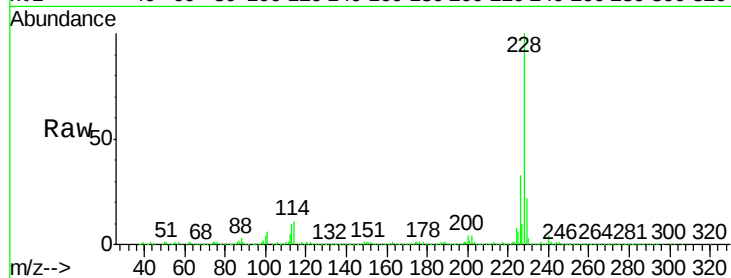
Tgt Ion:228 Resp: 2186320

Ion Ratio Lower Upper

228 100

226 32.7 22.5 33.7

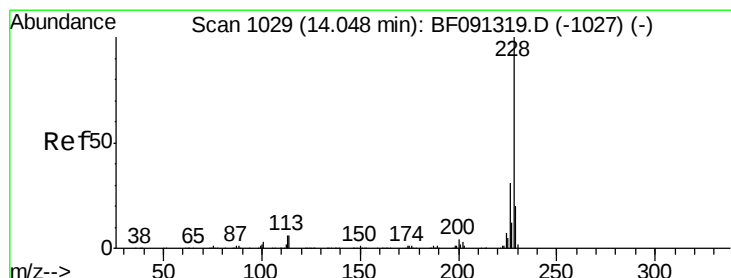
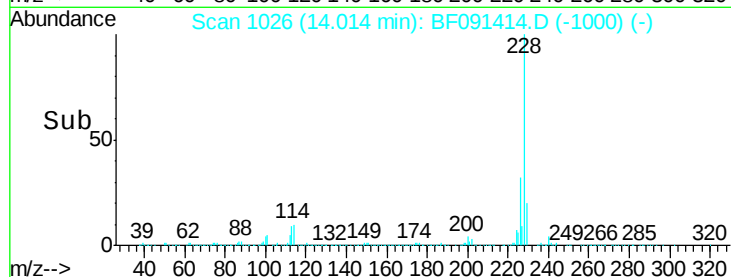
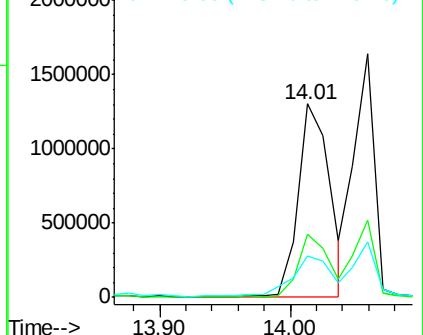
229 21.7 16.4 24.6



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: 88.55 ng

RT: 14.06 min Scan# 1030

Delta R.T. -0.01 min

Lab File: BF091414.D

Acq: 3 Dec 2016 2:47

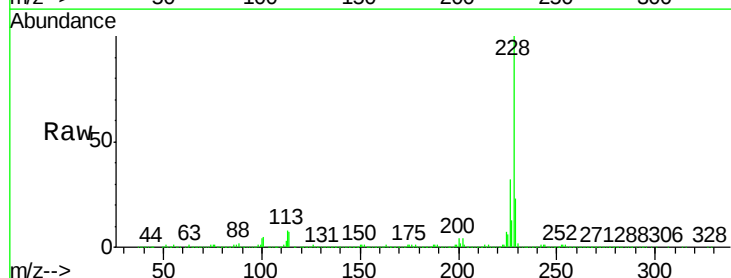
Tgt Ion:228 Resp: 1776998

Ion Ratio Lower Upper

228 100

226 31.6 25.0 37.4

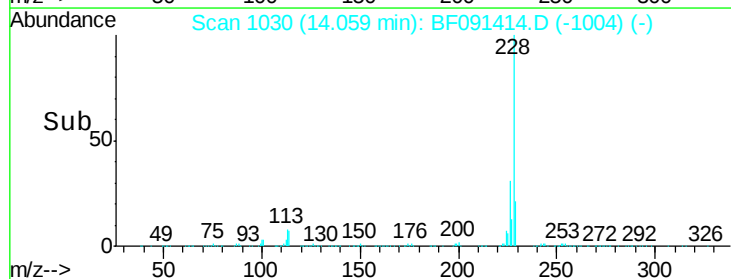
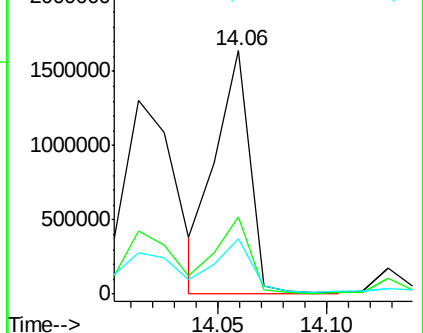
229 23.0 16.0 24.0

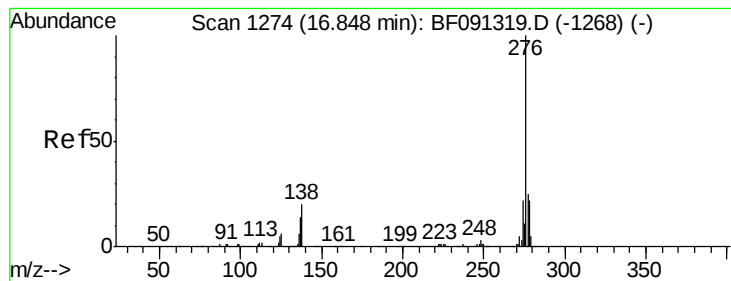


Abundance Ion 228.00 (227.70 to 228.70): E

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: 41.61 ng

RT: 16.87 min Scan# 1276

Delta R.T. -0.02 min

Lab File: BF091414.D

Acq: 3 Dec 2016 2:47

Instrument :

BNA_F

ClientSampleId :

SB-01

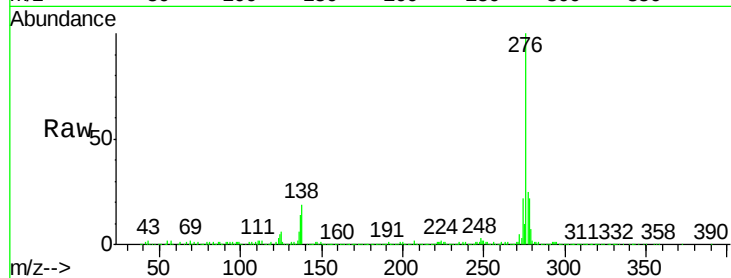
Tgt Ion:276 Resp: 764671

Ion Ratio Lower Upper

276 100

138 17.5 21.0 31.4#

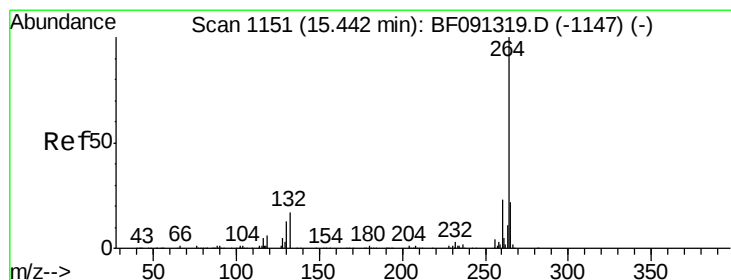
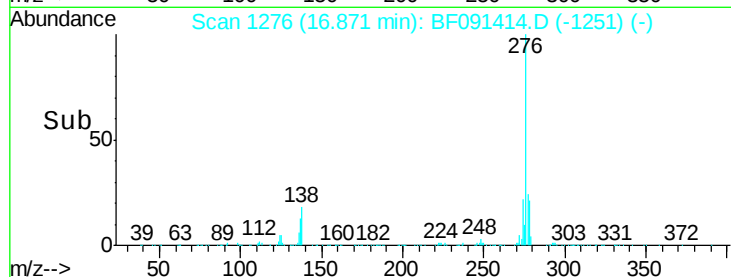
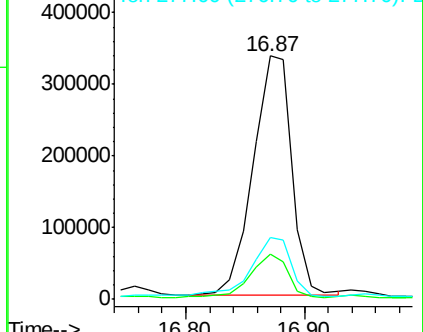
277 25.8 20.2 30.2



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: 15.47 min Scan# 1153

Delta R.T. -0.01 min

Lab File: BF091414.D

Acq: 3 Dec 2016 2:47

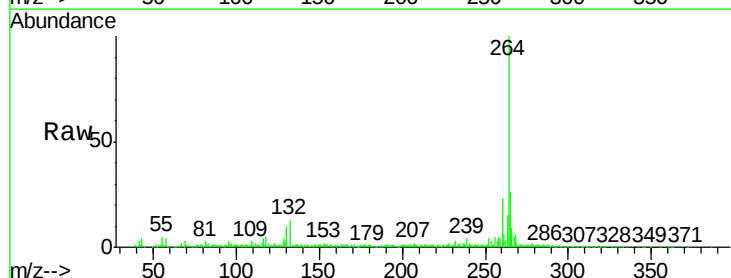
Tgt Ion:264 Resp: 329574

Ion Ratio Lower Upper

264 100

260 22.7 18.8 28.2

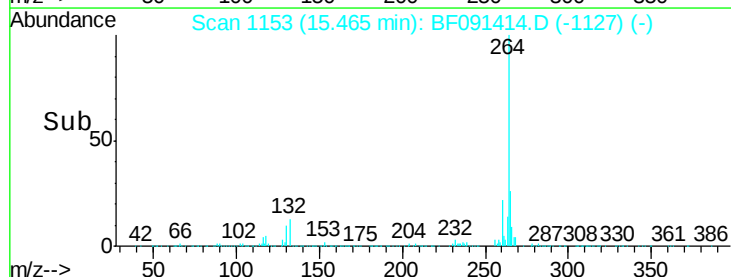
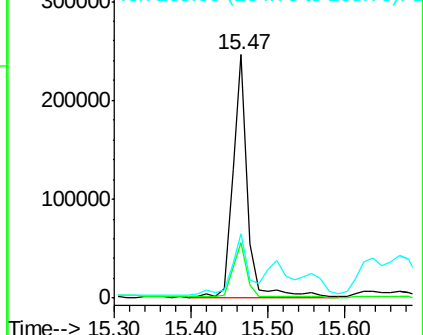
265 26.3 17.0 25.6#

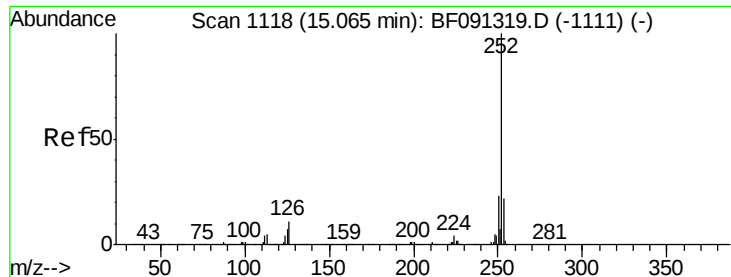


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

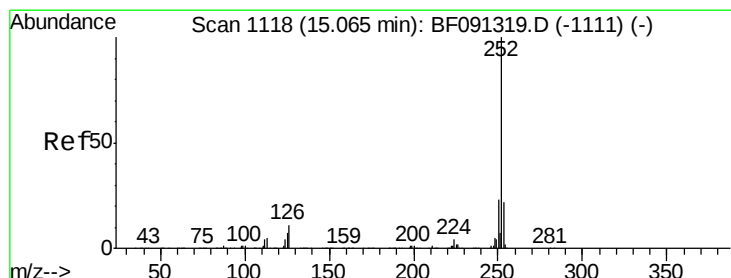
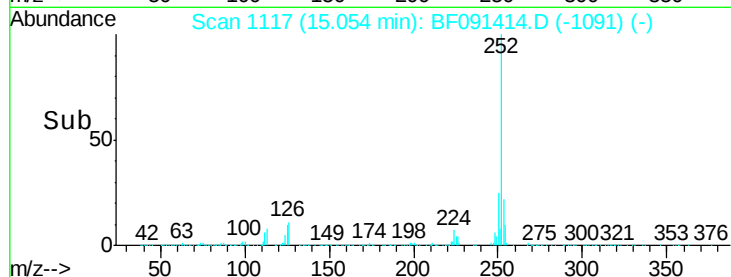
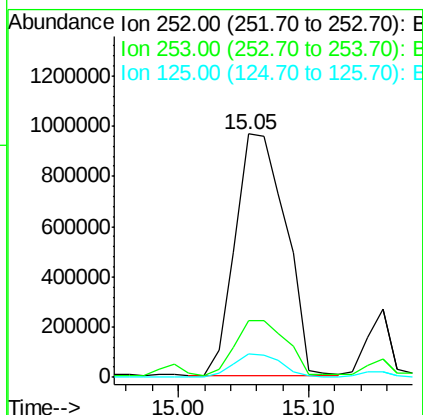
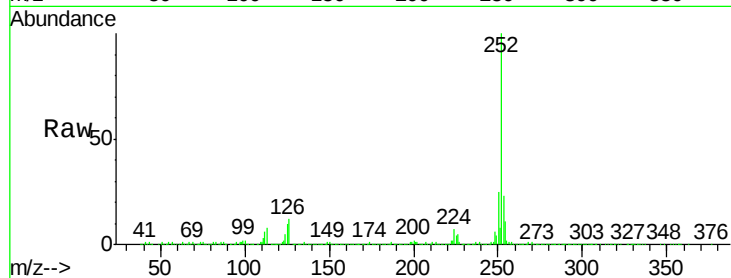




#87
Benzo(b)fluoranthene
Concen: 126.01 ng
RT: 15.05 min Scan# 1117
Delta R.T. -0.01 min
Lab File: BF091414.D
Acq: 3 Dec 2016 2:47

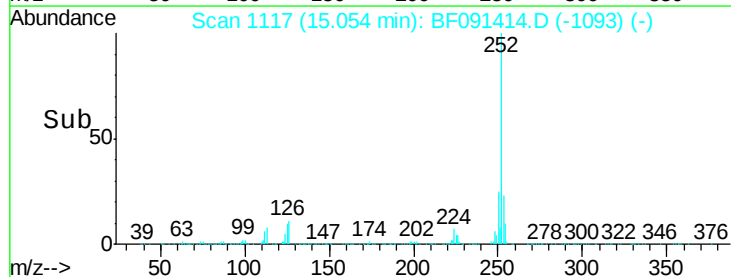
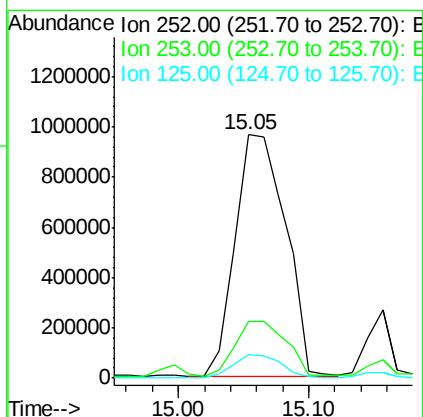
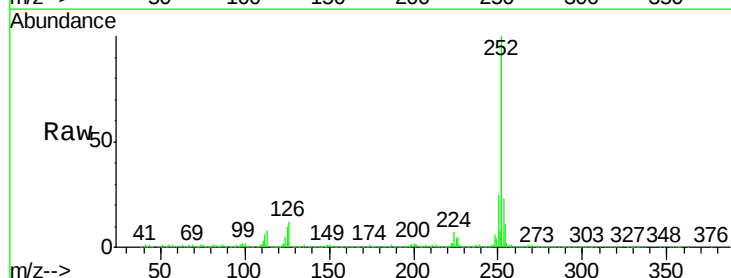
Instrument :
BNA_F
ClientSampleId :
SB-01

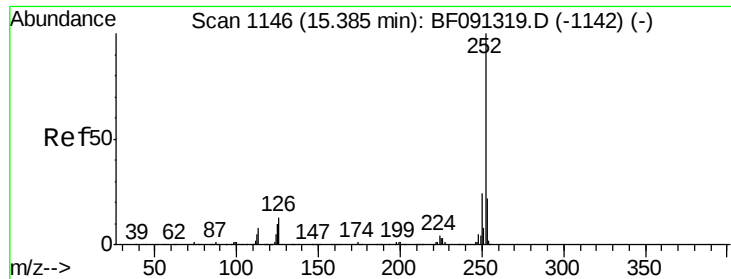
Tgt Ion:252 Resp: 2581387
Ion Ratio Lower Upper
252 100
253 23.1 18.2 27.2
125 9.9 8.6 13.0



#88
Benzo(k)fluoranthene
Concen: 149.85 ng
RT: 15.05 min Scan# 1117
Delta R.T. -0.03 min
Lab File: BF091414.D
Acq: 3 Dec 2016 2:47

Tgt Ion:252 Resp: 2581387
Ion Ratio Lower Upper
252 100
253 23.1 17.8 26.8
125 9.9 9.6 14.4





#89

Benzo(a)pyrene

Concen: 21.26 ng

RT: 15.49 min Scan# 1155

Delta R.T. 0.07 min

Lab File: BF091414.D

Acq: 3 Dec 2016 2:47

Instrument :

BNA_F

ClientSampleId :

SB-01

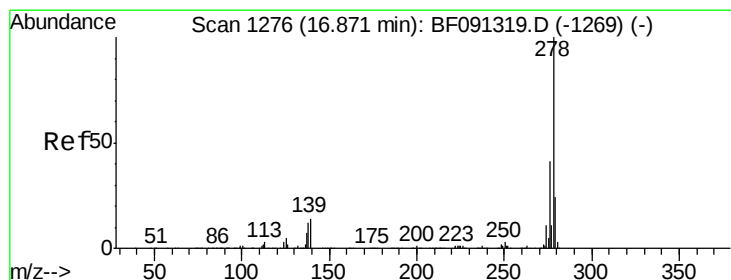
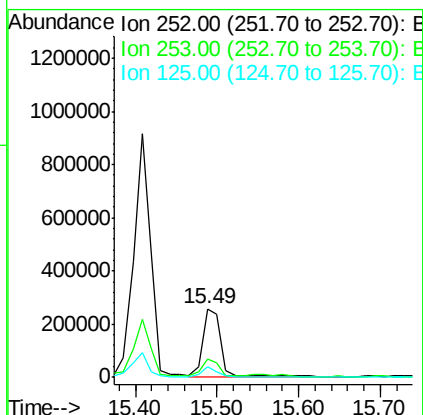
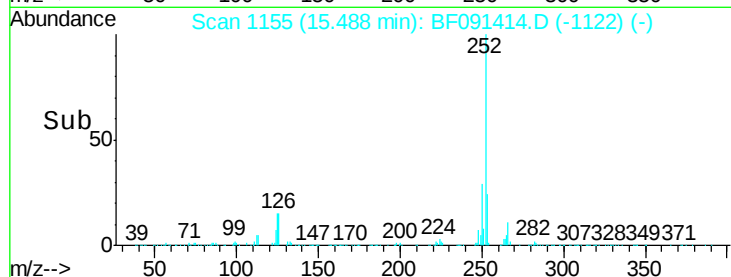
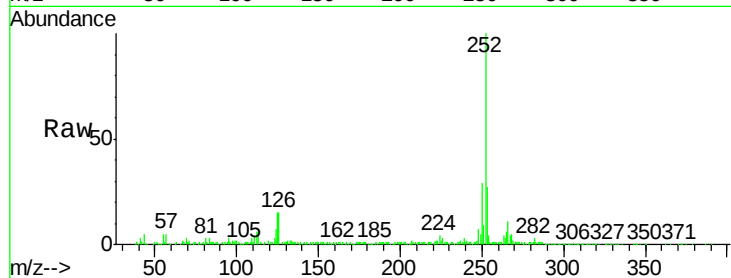
Tgt Ion:252 Resp: 391049

Ion Ratio Lower Upper

252 100

253 27.2 18.2 27.4

125 15.5 10.4 15.6



#90

Dibenzo(a,h)anthracene

Concen: 8.35 ng

RT: 17.09 min Scan# 1295

Delta R.T. 0.18 min

Lab File: BF091414.D

Acq: 3 Dec 2016 2:47

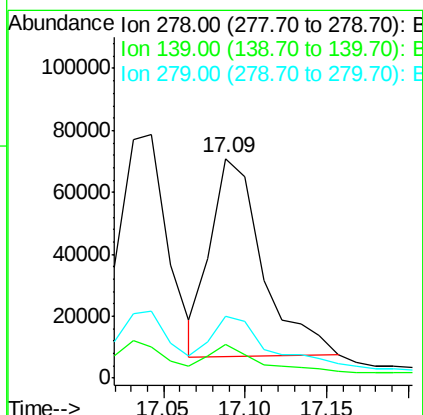
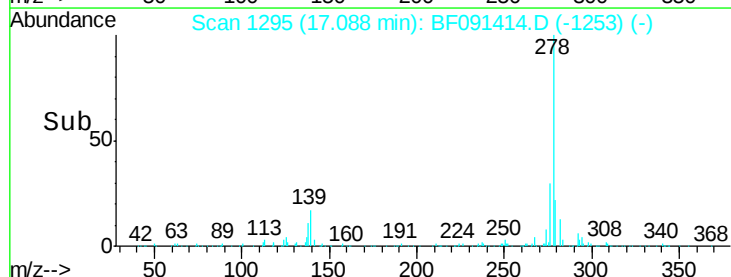
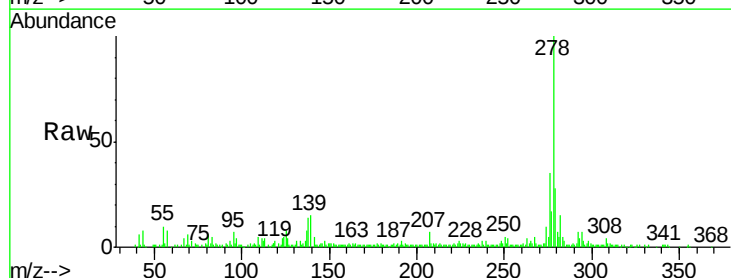
Tgt Ion:278 Resp: 142076

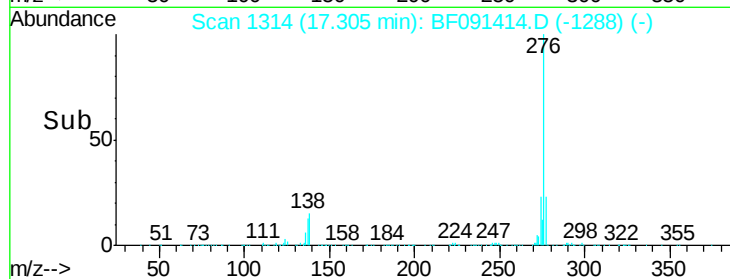
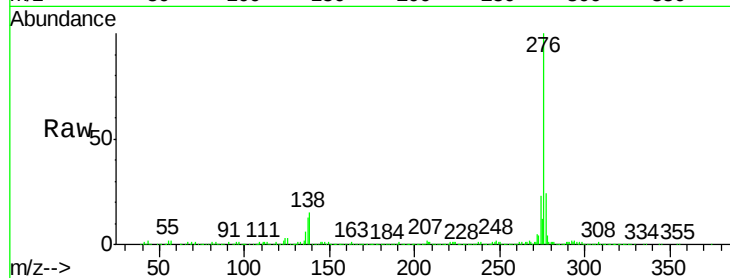
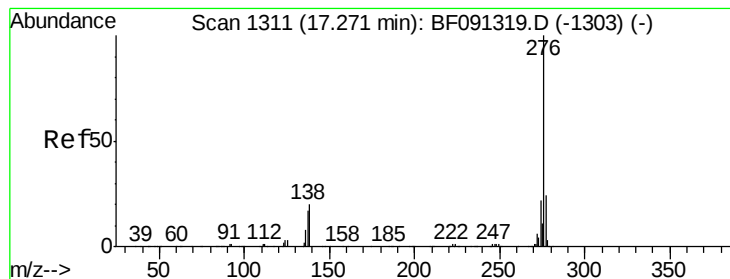
Ion Ratio Lower Upper

278 100

139 15.4 15.1 22.7

279 27.9 19.0 28.6





#91

Benzo(g,h,i)perylene

Concen: 39.73 ng

RT: 17.31 min Scan# 1314

Delta R.T. -0.01 min

Lab File: BF091414.D

Acq: 3 Dec 2016 2:47

Instrument :

BNA_F

ClientSampleId :

SB-01

Tgt Ion:276 Resp: 696970

Ion Ratio Lower Upper

276 100

277 24.0 19.0 28.4

138 15.4 15.4 23.0

