

Data Path : Z:\HPCHEM1\BNA F\DATA\BF102816\
 Data File : BF090909.D
 Acq On : 28 Oct 2016 14:48
 Operator : UM/SJ
 Sample : H5422-05DL 10X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Oct 28 17:28:07 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102616.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 28 15:18:12 2016
 Response via : Initial Calibration

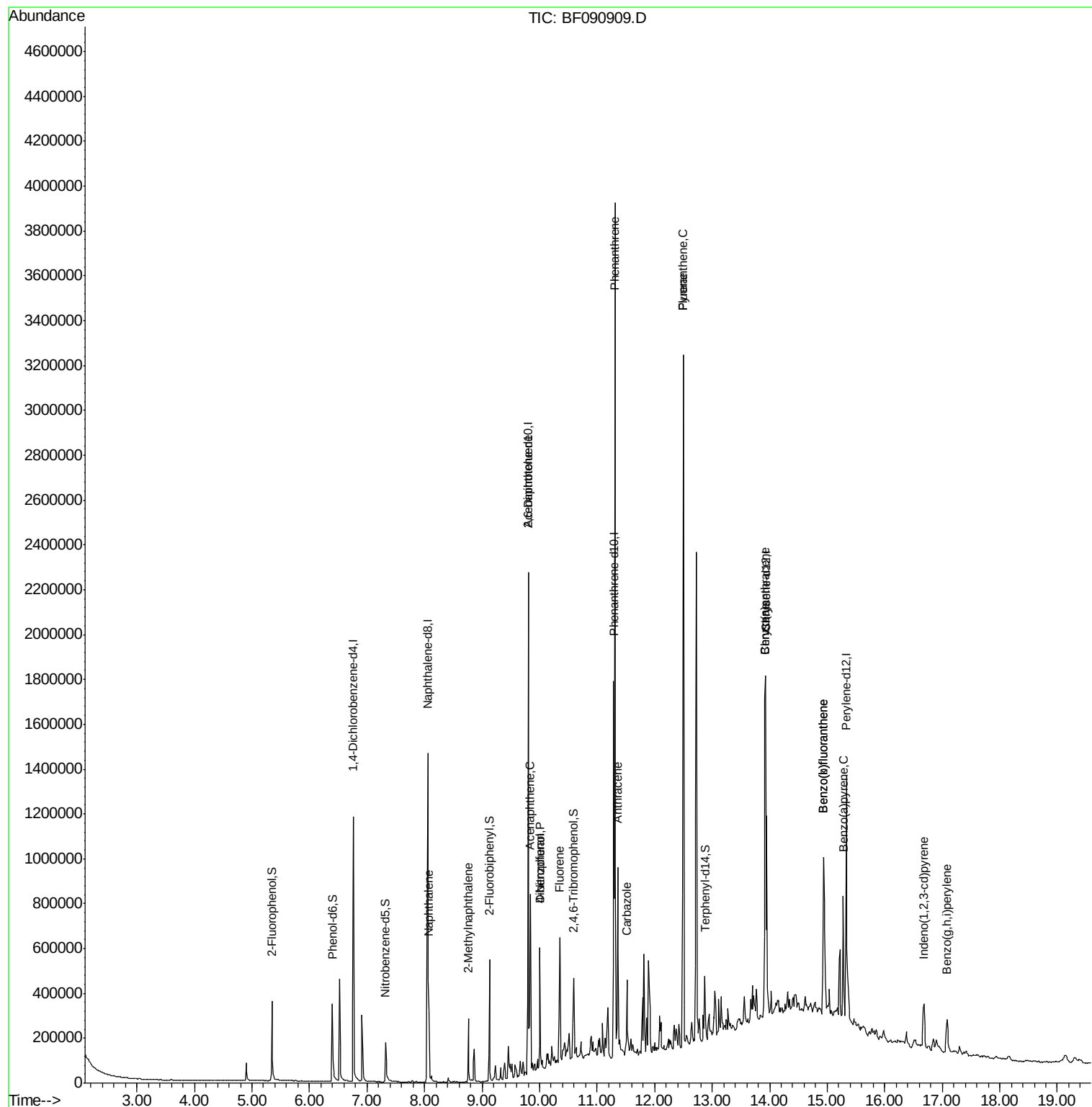
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.76	152	194474	20.00	ng	0.00
21) Naphthalene-d8	8.05	136	826263	20.00	ng	0.00
38) Acenaphthene-d10	9.80	164	424206	20.00	ng	-0.01
63) Phenanthrene-d10	11.29	188	628203	20.00	ng	0.00
75) Chrysene-d12	13.93	240	469555	20.00	ng	0.00
86) Perylene-d12	15.33	264	446083	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.34	112	119120	10.71	ng	-0.01
7) Phenol-d6	6.40	99	167030	11.13	ng	-0.02
23) Nitrobenzene-d5	7.32	82	97049	7.69	ng	-0.01
41) 2,4,6-Tribromophenol	10.59	330	25356	5.82	ng	-0.01
44) 2-Fluorobiphenyl	9.13	172	167732	6.94	ng	-0.01
78) Terphenyl-d14	12.88	244	105196	5.64	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.06	128	249544	6.46	ng	99
37) 2-Methylnaphthalene	8.76	142	77428	3.10	ng	# 90
50) 2,6-Dinitrotoluene	9.80	165	59004	9.43	ng	# 39
51) Acenaphthene	9.84	154	169645	7.00	ng	87
54) Dibenzofuran	10.01	168	208971	6.68	ng	# 88
55) 4-Nitrophenol	10.01	139	83003	20.43	ng	# 29
57) Fluorene	10.35	166	169232	6.61	ng	92
70) Phenanthrene	11.31	178	1420302	44.40	ng	94
71) Anthracene	11.36	178	404971	12.02	ng	96
72) Carbazole	11.52	167	155381	5.22	ng	# 94
74) Fluoranthene	12.50	202	1128865	32.22	ng	94
77) Pyrene	12.50	202	1128865	37.99	ng	96
80) Benzo(a)anthracene	13.92	228	437913	17.57	ng	96
82) Chrysene	13.92	228	437913	17.37	ng	98
85) Indeno(1,2,3-cd)pyrene	16.68	276	137761	6.17	ng	# 91
87) Benzo(b)fluoranthene	14.93	252	485142	16.17	ng	# 93
88) Benzo(k)fluoranthene	14.93	252	485142	20.47	ng	# 94
89) Benzo(a)pyrene	15.28	252	268206	10.41	ng	# 87
91) Benzo(a,h,i)perylene	17.08	276	111121	5.41	ng	# 84

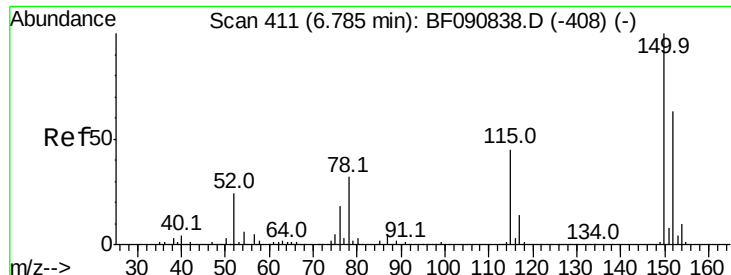
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.76 min Scan# 409

Delta R.T. 0.00 min

Lab File: BF090909.D

Acq: 28 Oct 2016 14:48

Instrument :

BNA_F

ClientSampleId :

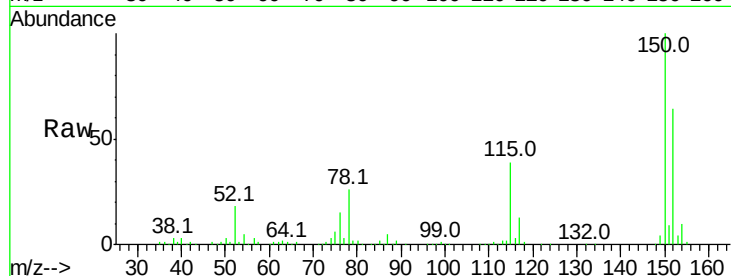
Tot Ion:152 Resp: 194474

Ion Ratio Lower Upper

152 100

150 156.4 124.7 187.1

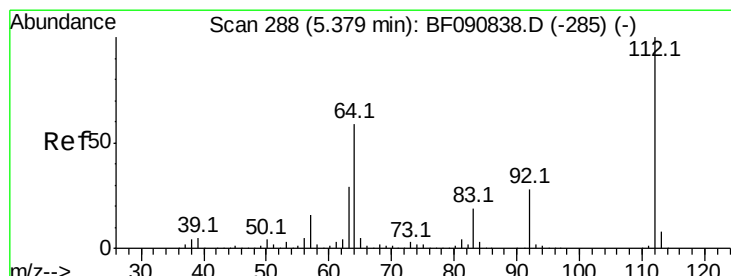
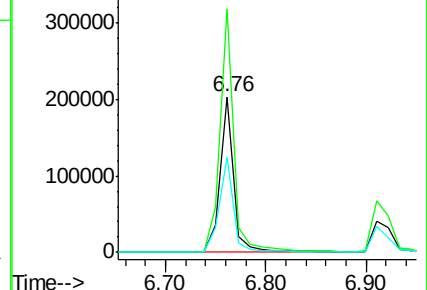
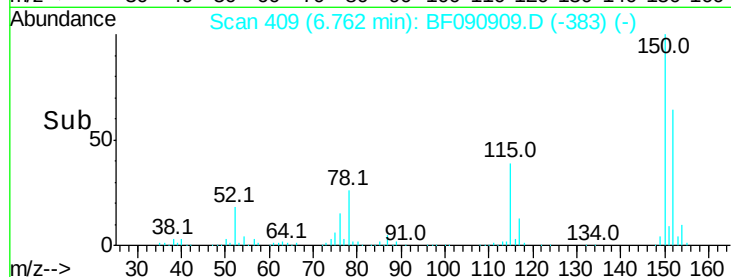
115 60.8 39.0 58.4#



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: 10.71 ng

RT: 5.34 min Scan# 285

Delta R.T. -0.01 min

Lab File: BF090909.D

Acq: 28 Oct 2016 14:48

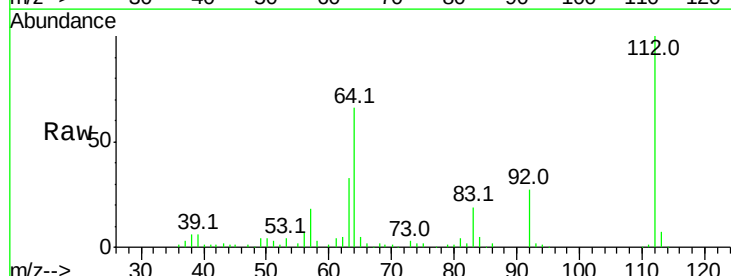
Tgt Ion:112 Resp: 119120

Ion Ratio Lower Upper

112 100

64 66.3 39.7 59.5#

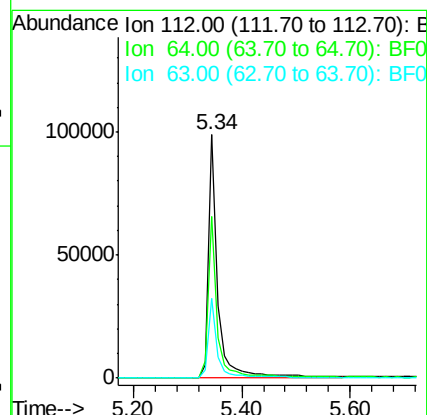
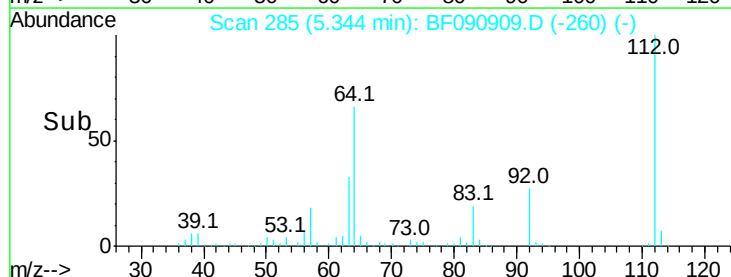
63 32.9 17.4 26.0#

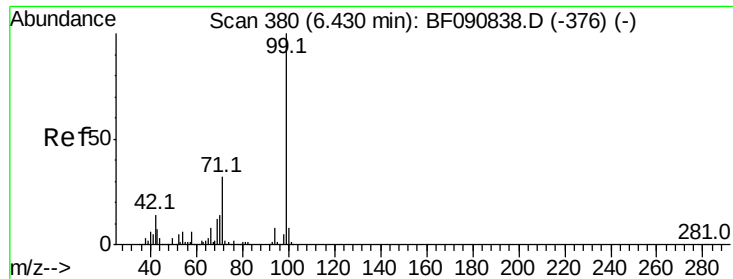


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 11.13 ng

RT: 6.40 min Scan# 377

Delta R.T. -0.02 min

Lab File: BF090909.D

Acq: 28 Oct 2016 14:48

Instrument :

BNA_F

ClientSampleId :

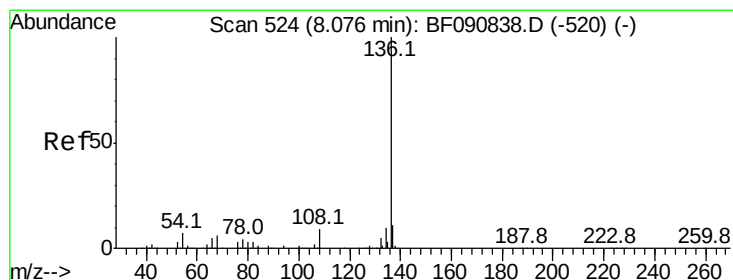
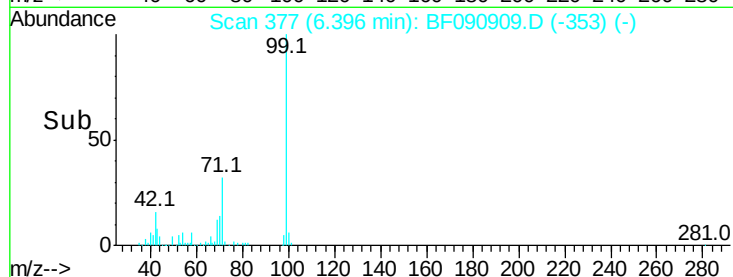
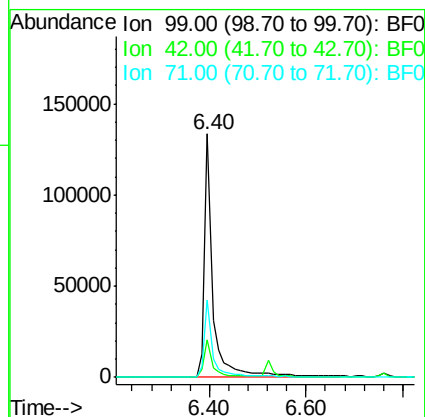
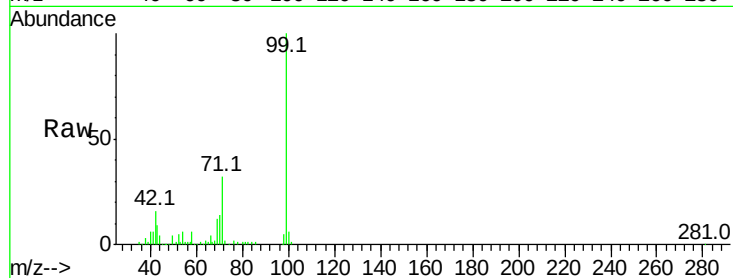
Tot Ion: 99 Resp: 167030

Ion Ratio Lower Upper

99 100

42 15.7 13.7 20.5

71 31.6 14.2 21.2#



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.05 min Scan# 522

Delta R.T. 0.00 min

Lab File: BF090909.D

Acq: 28 Oct 2016 14:48

Tgt Ion: 136 Resp: 826263

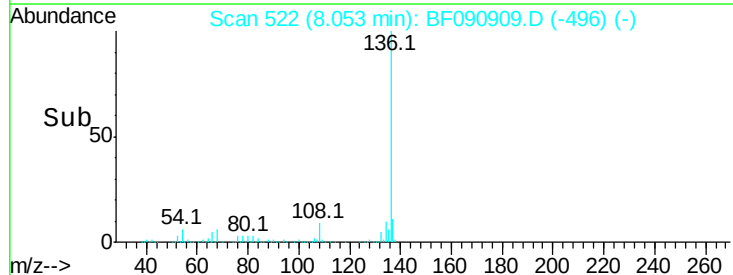
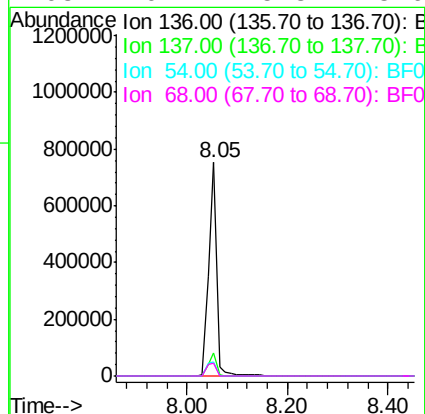
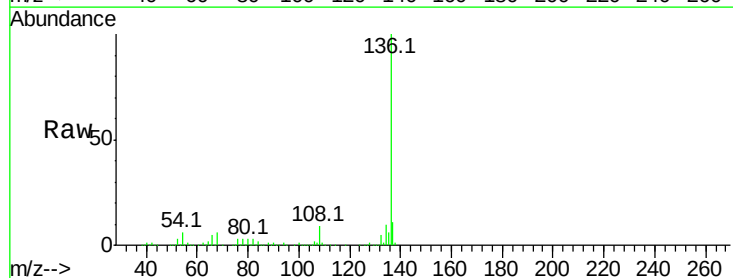
Ion Ratio Lower Upper

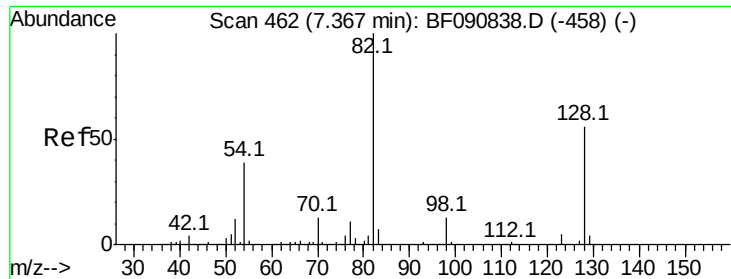
136 100

137 10.6 9.0 13.6

54 6.5 8.2 12.2#

68 6.1 5.8 8.6





#23

Nitrobenzene-d5

Concen: 7.69 ng

RT: 7.32 min Scan# 458

Delta R.T. -0.01 min

Lab File: BF090909.D

Acq: 28 Oct 2016 14:48

Instrument :

BNA_F

ClientSampleId :

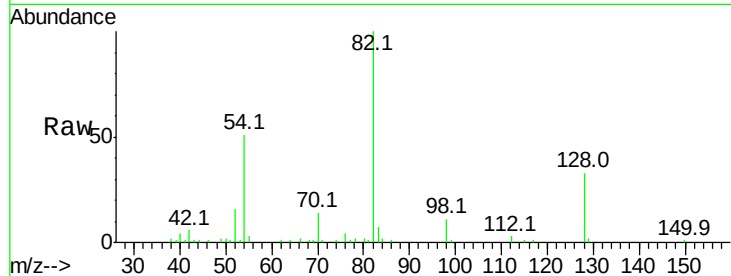
Tot Ion: 82 Resp: 97049

Ion Ratio Lower Upper

82 100

128 32.5 51.0 76.6#

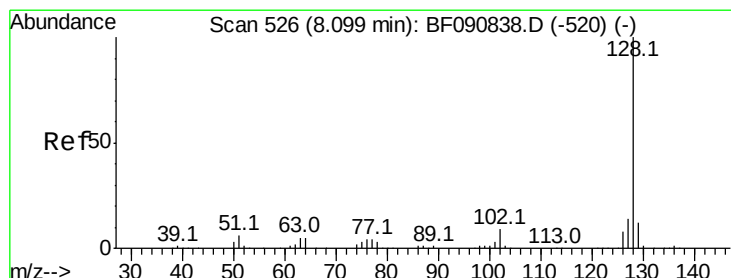
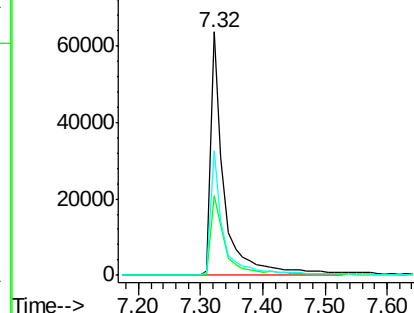
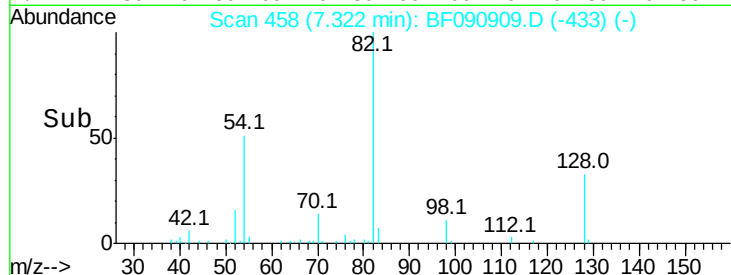
54 51.1 47.5 71.3



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



#31

Naphthalene

Concen: 6.46 ng

RT: 8.06 min Scan# 523

Delta R.T. -0.01 min

Lab File: BF090909.D

Acq: 28 Oct 2016 14:48

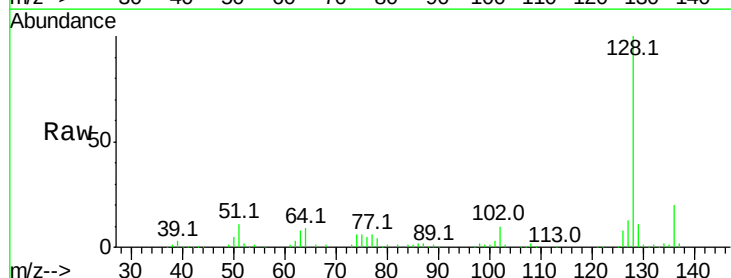
Tgt Ion:128 Resp: 249544

Ion Ratio Lower Upper

128 100

129 11.2 8.4 12.6

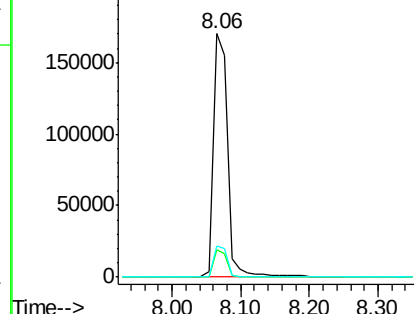
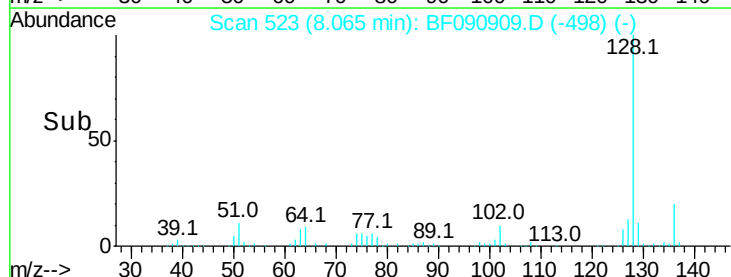
127 12.9 9.9 14.9

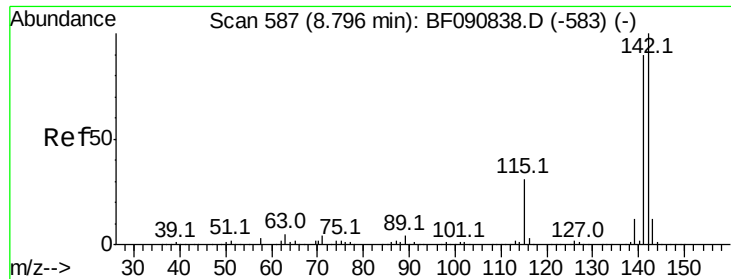


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

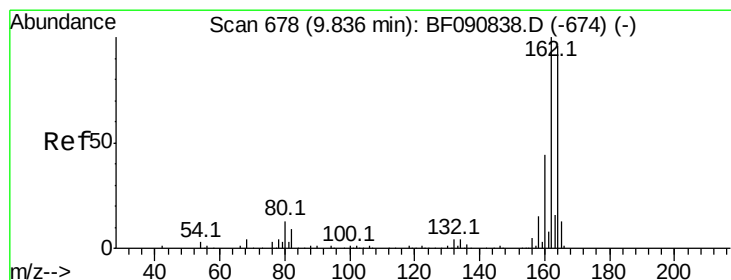
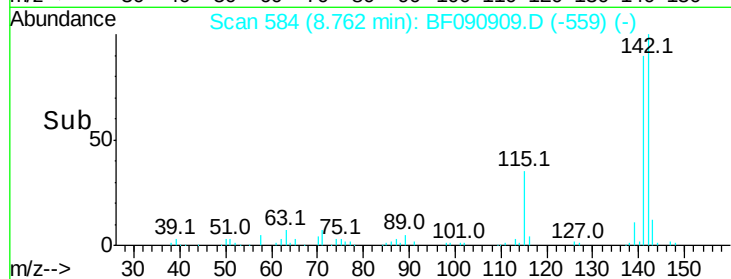
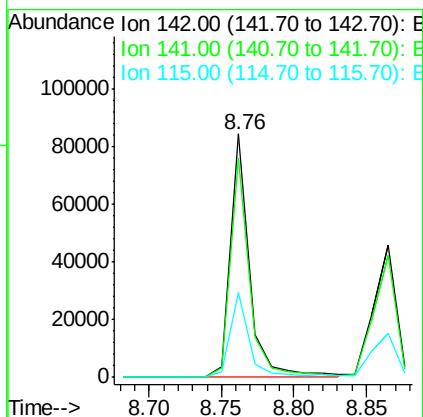
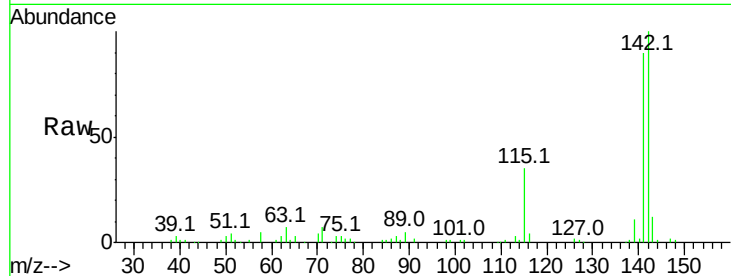




#37
2-Methylnaphthalene
Concen: 3.10 ng
RT: 8.76 min Scan# 584
Delta R.T. -0.01 min
Lab File: BF090909.D
Acq: 28 Oct 2016 14:48

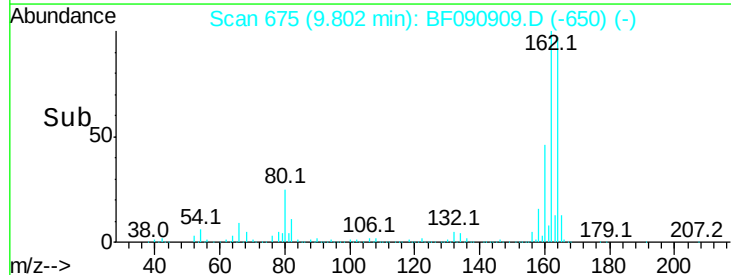
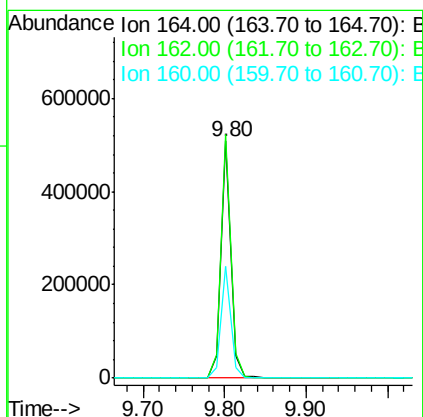
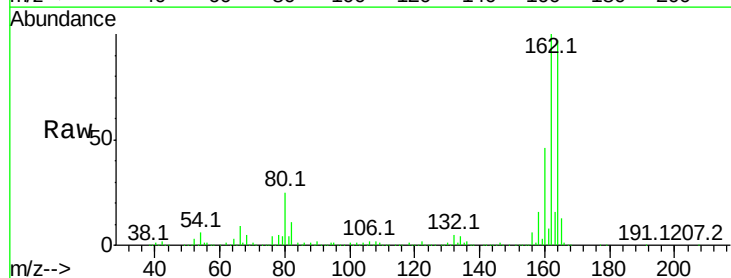
Instrument :
BNA_F
ClientSampled :

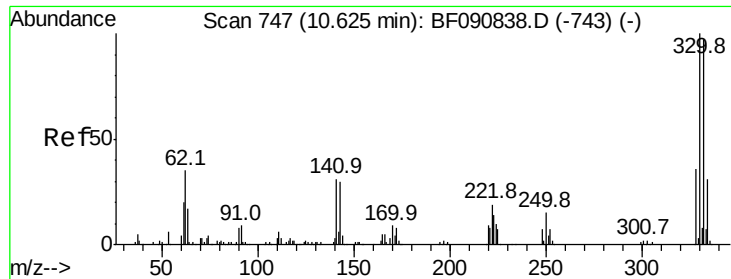
Tot Ion:142 Resp: 77428
Ion Ratio Lower Upper
142 100
141 90.1 67.5 101.3
115 34.8 18.2 27.2#



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.80 min Scan# 675
Delta R.T. -0.01 min
Lab File: BF090909.D
Acq: 28 Oct 2016 14:48

Tgt Ion:164 Resp: 424206
Ion Ratio Lower Upper
164 100
162 102.7 75.2 112.8
160 47.3 31.5 47.3

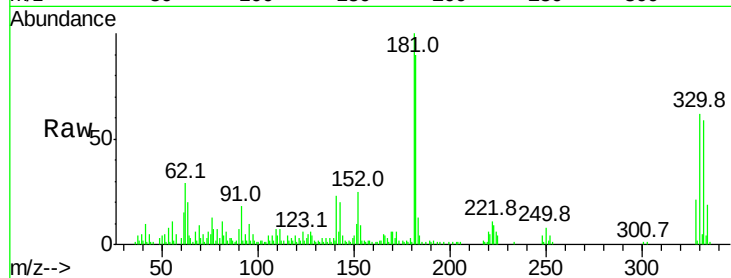




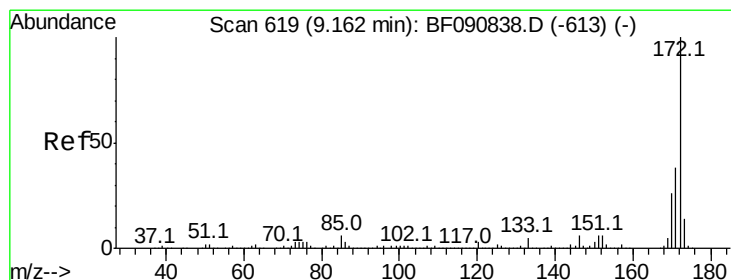
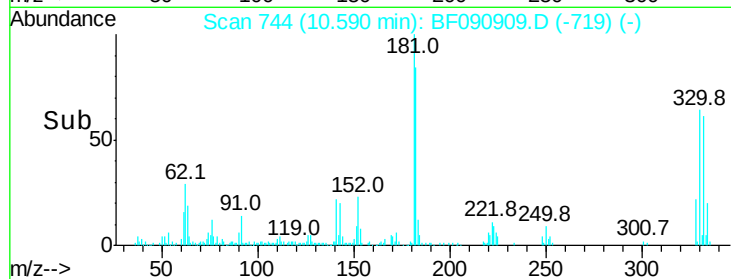
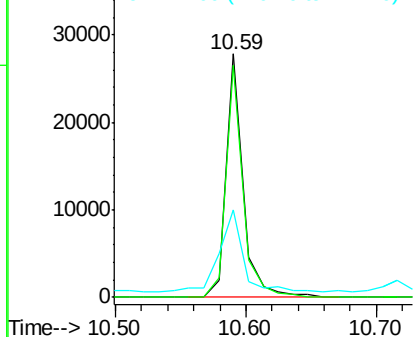
#41
 2,4,6-Tribromophenol
 Concen: 5.82 ng
 RT: 10.59 min Scan# 744
 Delta R.T. -0.01 min
 Lab File: BF090909.D
 Acq: 28 Oct 2016 14:48

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	94.9	76.6	114.8
141	49.2	29.7	44.5#

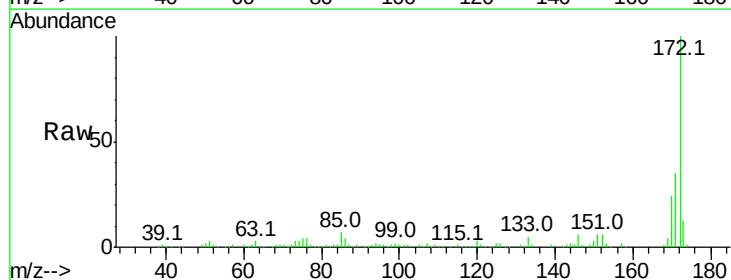


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

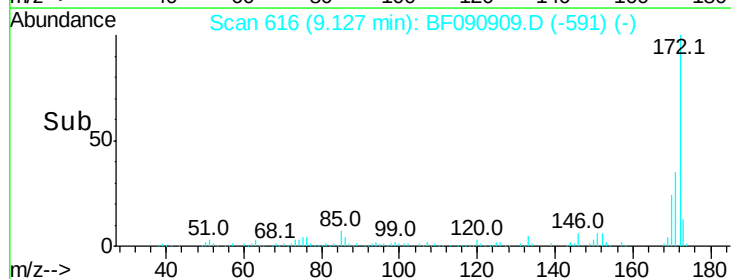
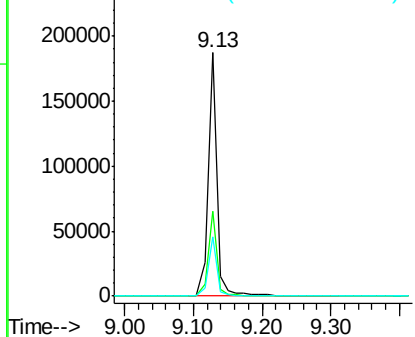


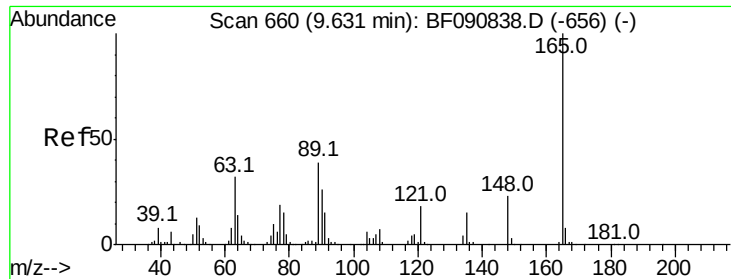
#44
 2-Fluorobiphenyl
 Concen: 6.94 ng
 RT: 9.13 min Scan# 616
 Delta R.T. -0.01 min
 Lab File: BF090909.D
 Acq: 28 Oct 2016 14:48

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.8	26.1	39.1
170	24.4	17.4	26.2



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





#50

2,6-Dinitrotoluene

Concen: 9.43 ng

RT: 9.80 min Scan# 675

Delta R.T. 0.19 min

Lab File: BF090909.D

Acq: 28 Oct 2016 14:48

Instrument :

BNA_F

ClientSampleId :

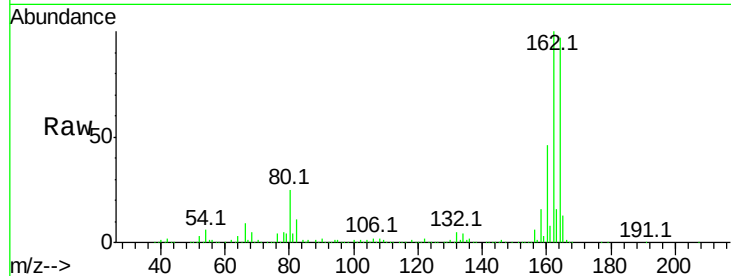
Tot Ion:165 Resp: 59004

Ion Ratio Lower Upper

165 100

63 1.1 32.3 48.5#

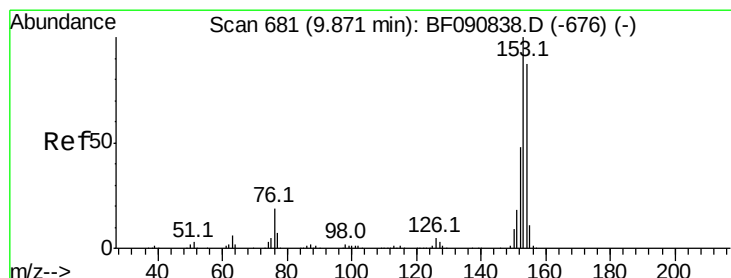
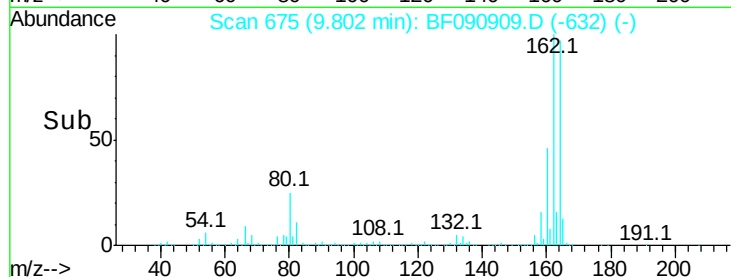
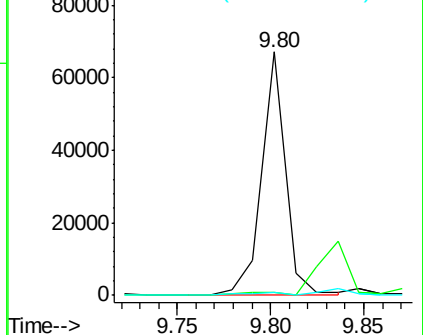
89 1.3 28.6 43.0#



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



#51

Acenaphthene

Concen: 7.00 ng

RT: 9.84 min Scan# 678

Delta R.T. -0.01 min

Lab File: BF090909.D

Acq: 28 Oct 2016 14:48

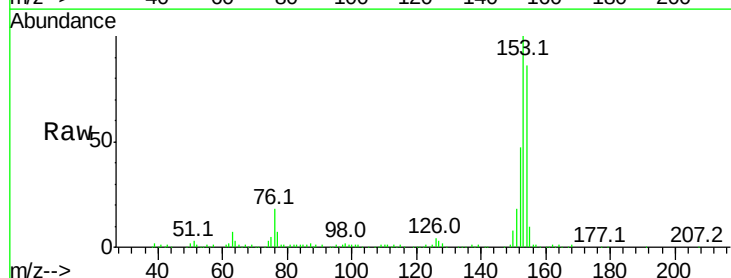
Tgt Ion:154 Resp: 169645

Ion Ratio Lower Upper

154 100

153 116.1 82.1 123.1

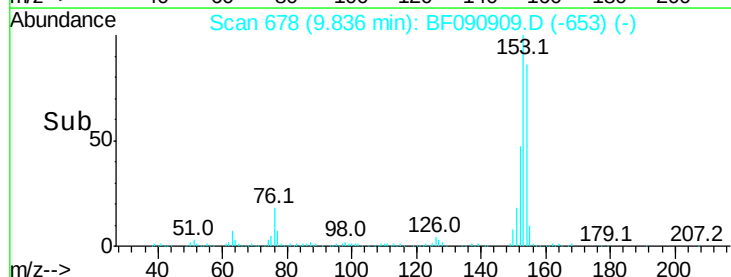
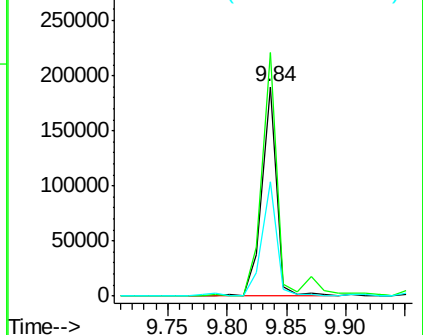
152 54.7 37.9 56.9

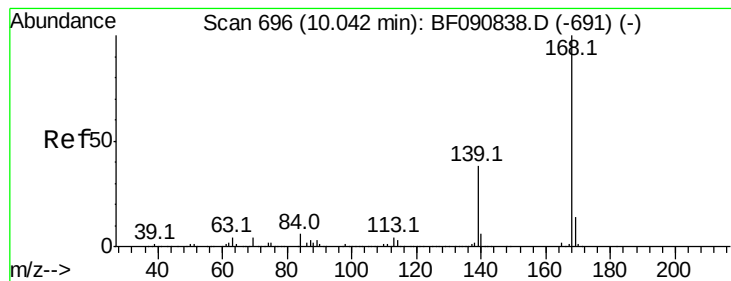


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#54

Dibenzofuran

Concen: 6.68 ng

RT: 10.01 min Scan# 693

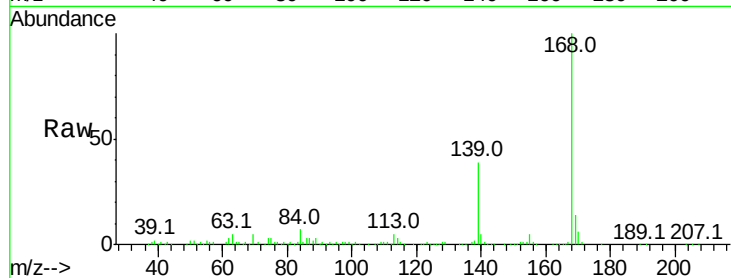
Delta R.T. -0.01 min

Lab File: BF090909.D

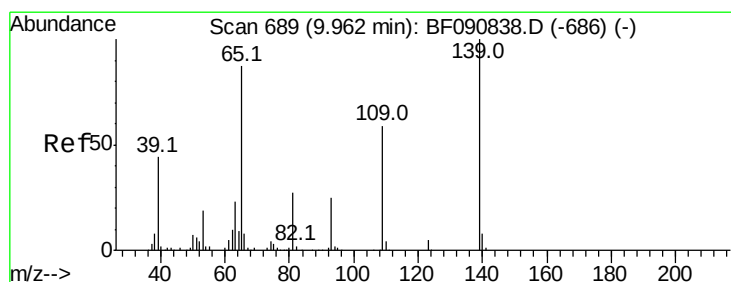
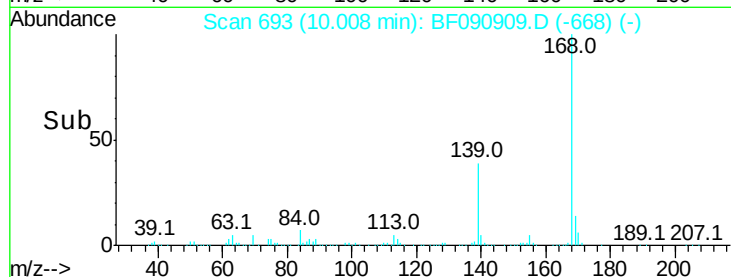
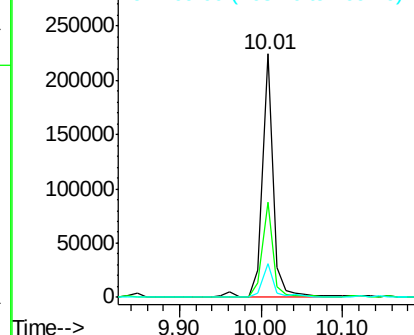
Acq: 28 Oct 2016 14:48

Instrument :
BNA_F
ClientSampled :

Tot Ion:168	Resp:	208971
Ion	Ratio	Lower Upper
168	100	
139	39.2	24.2 36.2#
169	14.0	10.6 15.8



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E



#55

4-Nitrophenol

Concen: 20.43 ng

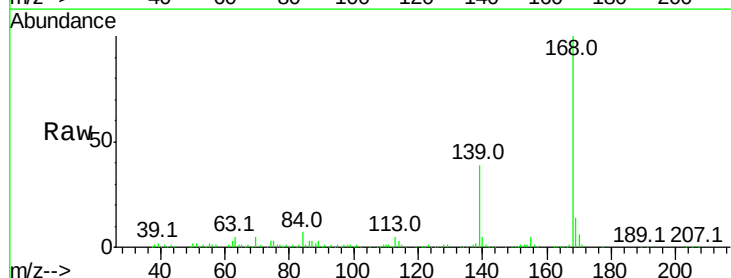
RT: 10.01 min Scan# 693

Delta R.T. 0.07 min

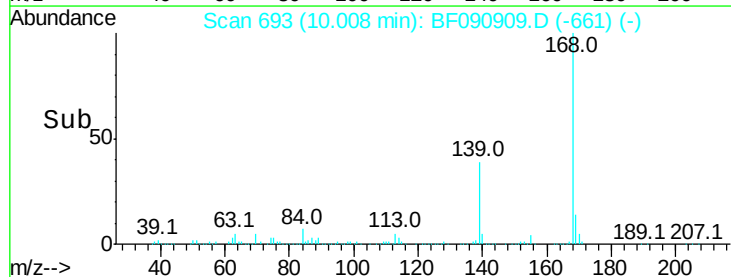
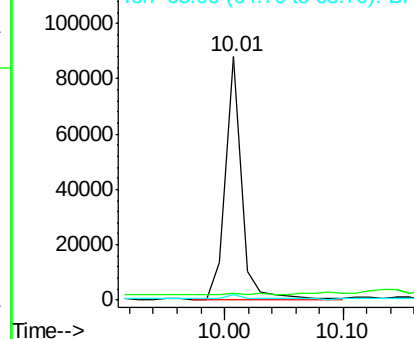
Lab File: BF090909.D

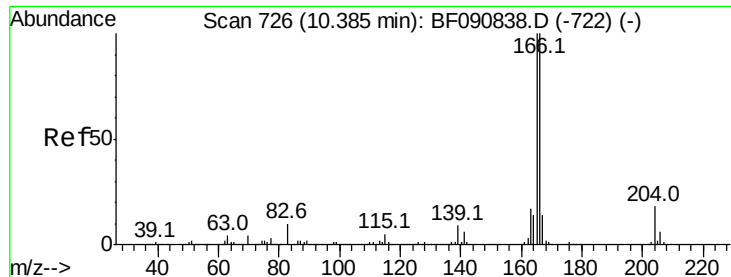
Acq: 28 Oct 2016 14:48

Tgt Ion:139	Resp:	83003
Ion	Ratio	Lower Upper
139	100	
109	3.0	12.7 52.7#
65	2.2	45.9 85.9#



Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF0

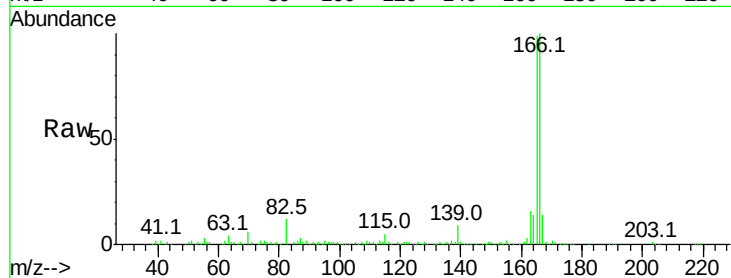




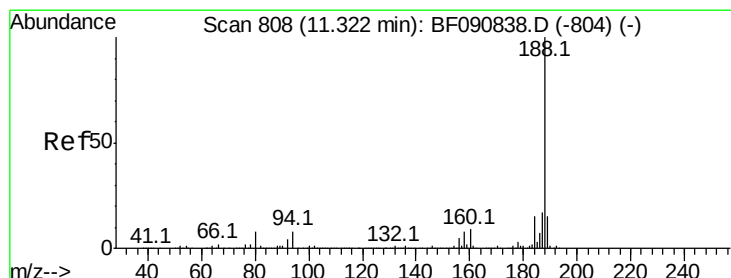
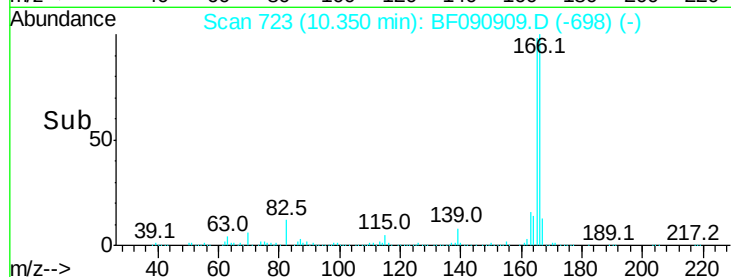
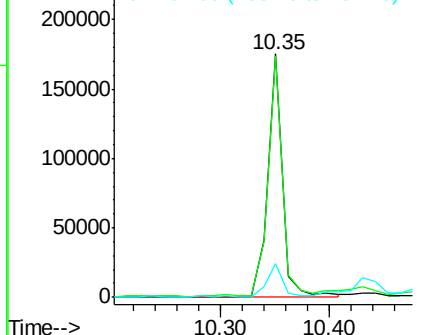
#57
 Fluorene
 Concen: 6.61 ng
 RT: 10.35 min Scan# 723
 Delta R.T. -0.01 min
 Lab File: BF090909.D
 Acq: 28 Oct 2016 14:48

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:166 Resp: 169232
 Ion Ratio Lower Upper
 166 100
 165 98.8 72.6 109.0
 167 13.8 10.6 16.0

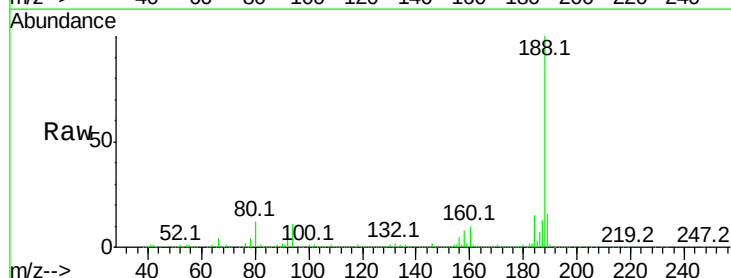


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

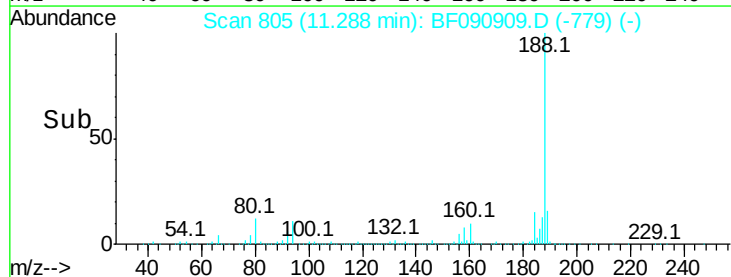
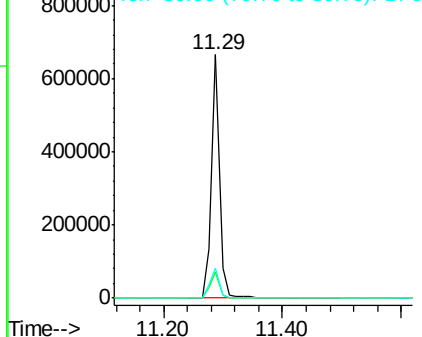


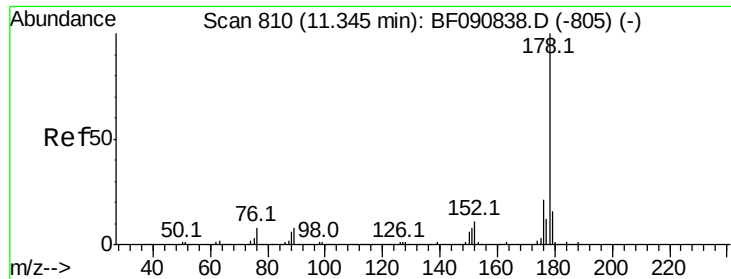
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.29 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: BF090909.D
 Acq: 28 Oct 2016 14:48

Tgt Ion:188 Resp: 628203
 Ion Ratio Lower Upper
 188 100
 94 10.8 11.1 16.7#
 80 12.0 11.0 16.4



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

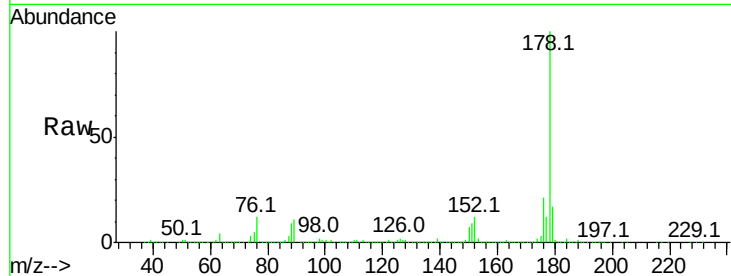




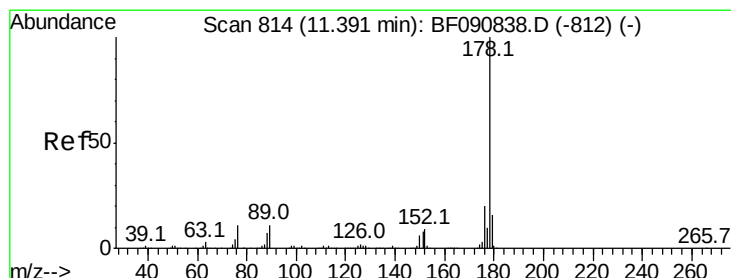
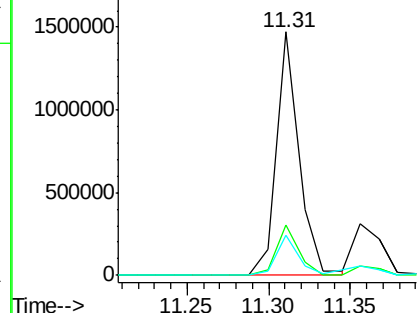
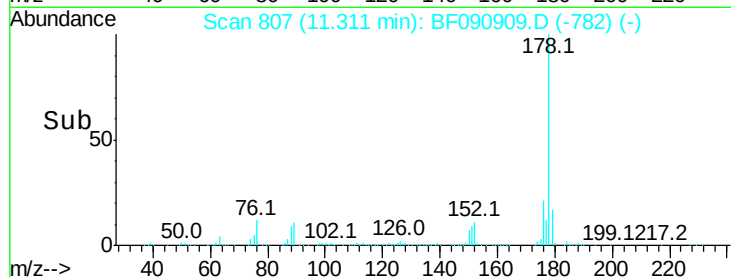
#70
Phenanthrene
Concen: 44.40 ng
RT: 11.31 min Scan# 807
Delta R.T. -0.01 min
Lab File: BF090909.D
Acq: 28 Oct 2016 14:48

Instrument :
BNA_F
ClientSampleId :

Tot Ion:178 Resp: 1420302
Ion Ratio Lower Upper
178 100
176 20.7 13.8 20.8
179 16.5 12.2 18.2

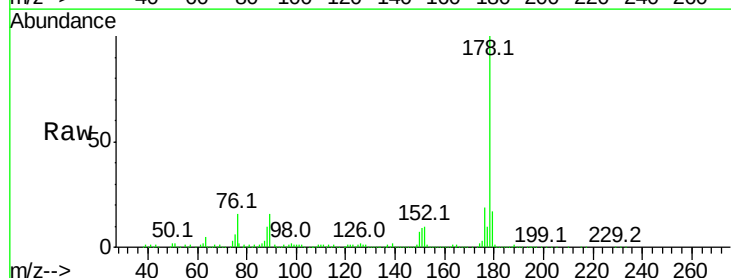


Abundance Ion 178.00 (177.70 to 178.70): E
2000000 Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

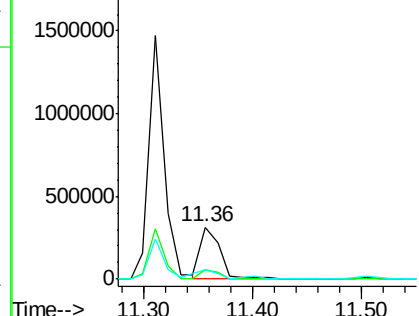
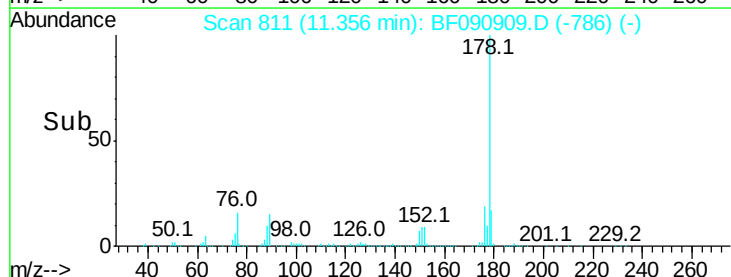


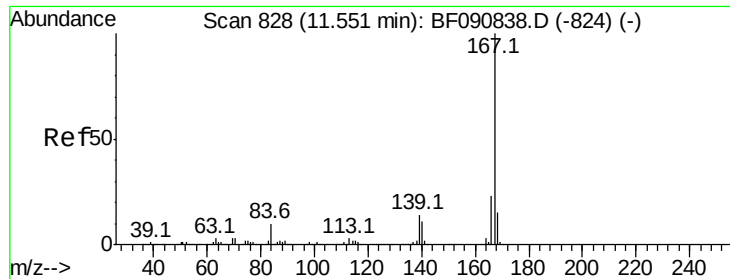
#71
Anthracene
Concen: 12.02 ng
RT: 11.36 min Scan# 811
Delta R.T. -0.01 min
Lab File: BF090909.D
Acq: 28 Oct 2016 14:48

Tgt Ion:178 Resp: 404971
Ion Ratio Lower Upper
178 100
176 18.9 14.1 21.1
179 17.1 12.2 18.2



Abundance Ion 178.00 (177.70 to 178.70): E
2000000 Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 5.22 ng

RT: 11.52 min Scan# 825

Delta R.T. -0.01 min

Lab File: BF090909.D

Acq: 28 Oct 2016 14:48

Instrument :

BNA_F

ClientSampleId :

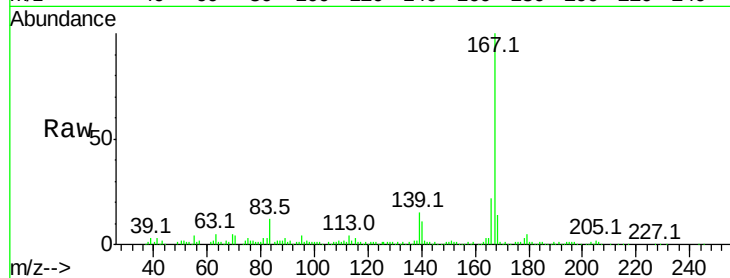
Tot Ion:167 Resp: 155381

Ion Ratio Lower Upper

167 100

166 21.7 15.7 23.5

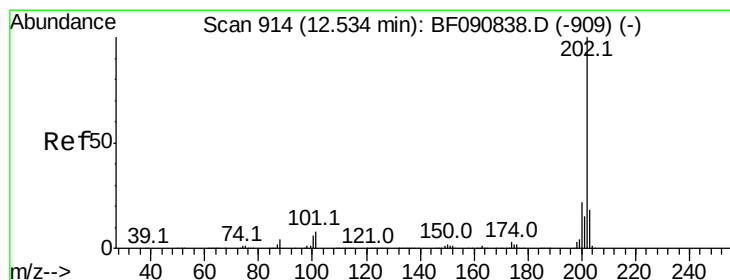
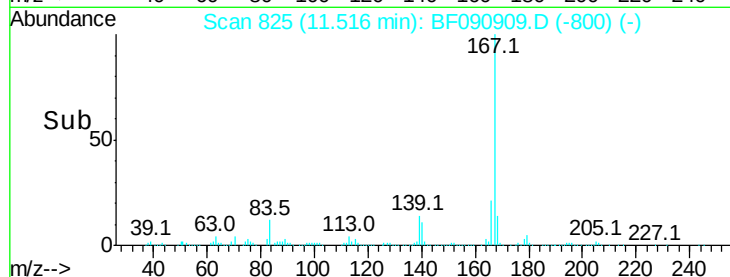
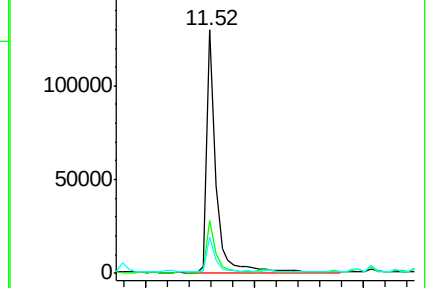
139 14.9 9.5 14.3#



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: 32.22 ng

RT: 12.50 min Scan# 911

Delta R.T. 0.00 min

Lab File: BF090909.D

Acq: 28 Oct 2016 14:48

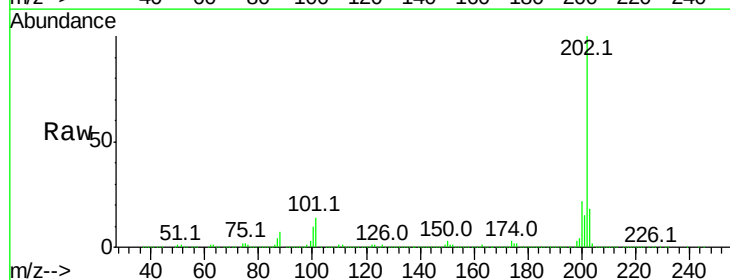
Tgt Ion:202 Resp: 1128865

Ion Ratio Lower Upper

202 100

101 13.9 0.0 38.3

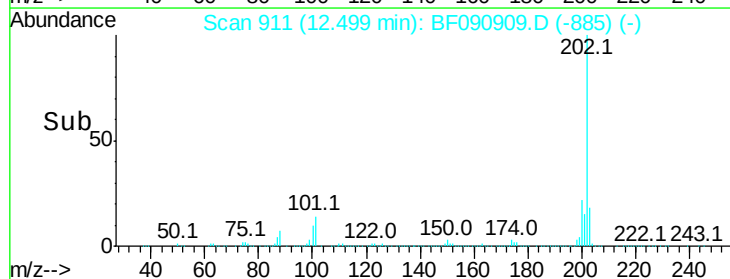
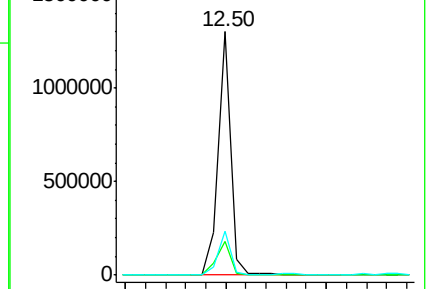
203 18.2 0.0 37.3

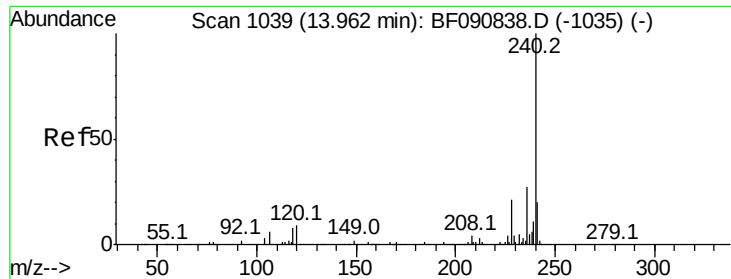


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.93 min Scan# 1036

Delta R.T. 0.00 min

Lab File: BF090909.D

Acq: 28 Oct 2016 14:48

Instrument :

BNA_F

ClientSampleId :

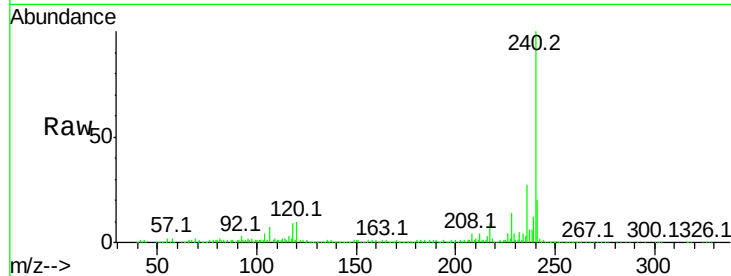
Tot Ion:240 Resp: 469555

Ion Ratio Lower Upper

240 100

120 10.2 16.2 24.2#

236 27.2 18.4 27.6

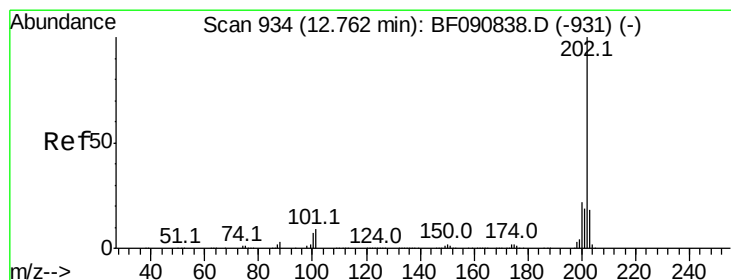
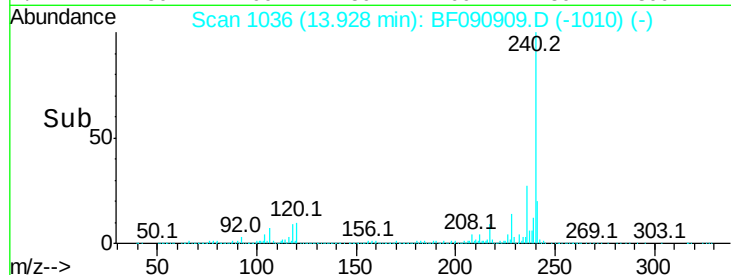
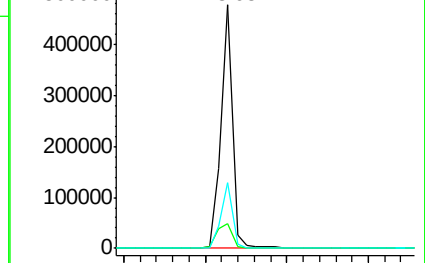


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

13.93



#77

Pyrene

Concen: 37.99 ng

RT: 12.50 min Scan# 911

Delta R.T. -0.23 min

Lab File: BF090909.D

Acq: 28 Oct 2016 14:48

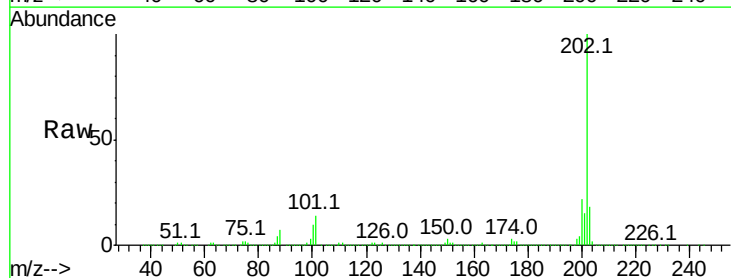
Tgt Ion:202 Resp: 1128865

Ion Ratio Lower Upper

202 100

200 22.0 15.0 22.4

203 18.2 14.1 21.1

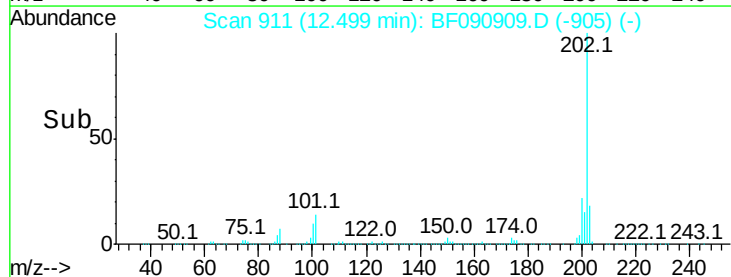
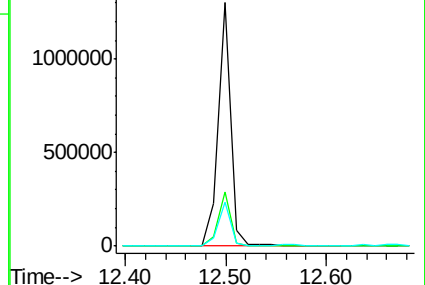


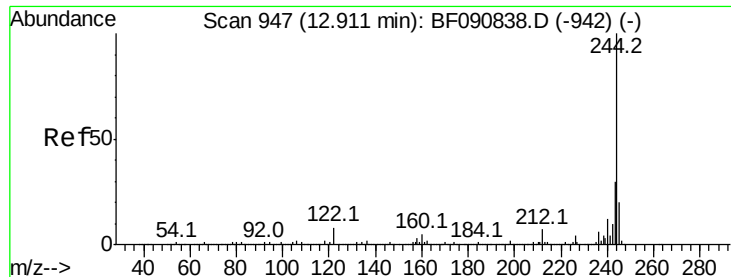
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

12.50





#78

Terphenyl-d14

Concen: 5.64 ng

RT: 12.88 min Scan# 944

Delta R.T. 0.00 min

Lab File: BF090909.D

Acq: 28 Oct 2016 14:48

Instrument :

BNA_F

ClientSampled :

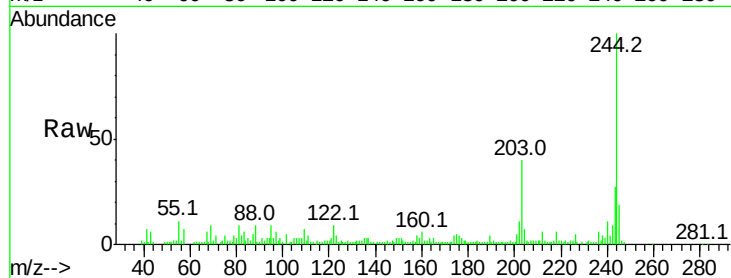
Tot Ion:244 Resp: 105196

Ion Ratio Lower Upper

244 100

212 6.4 4.3 6.5

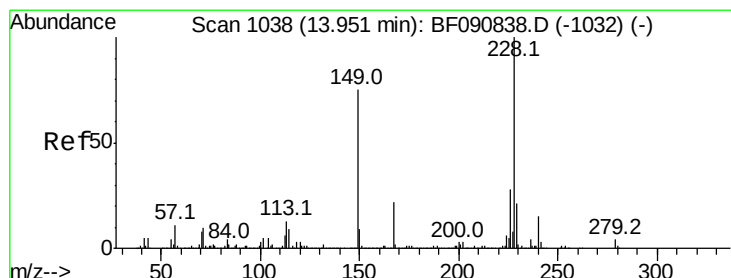
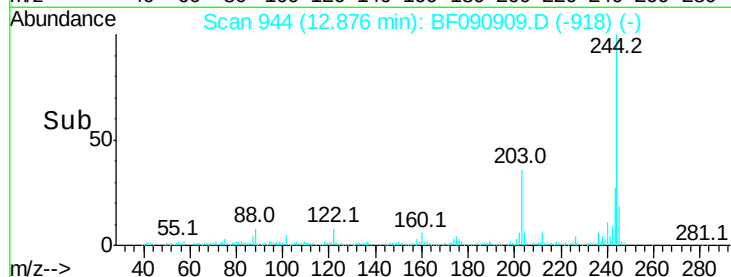
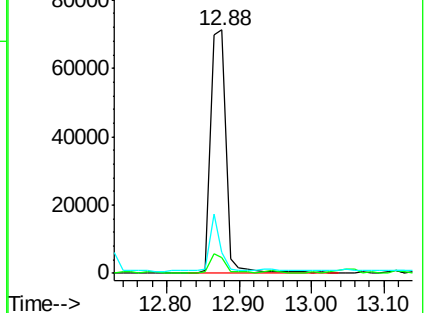
122 8.8 17.4 26.2#



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: 17.57 ng

RT: 13.92 min Scan# 1035

Delta R.T. 0.00 min

Lab File: BF090909.D

Acq: 28 Oct 2016 14:48

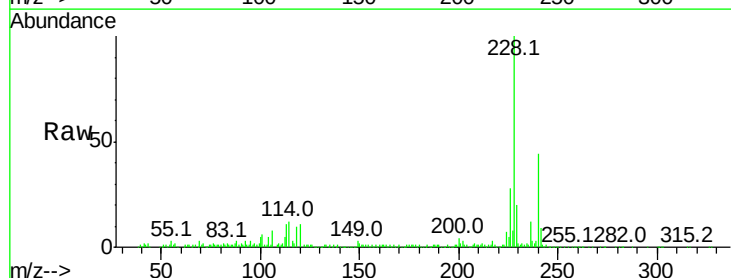
Tgt Ion:228 Resp: 437913

Ion Ratio Lower Upper

228 100

226 27.6 20.0 30.0

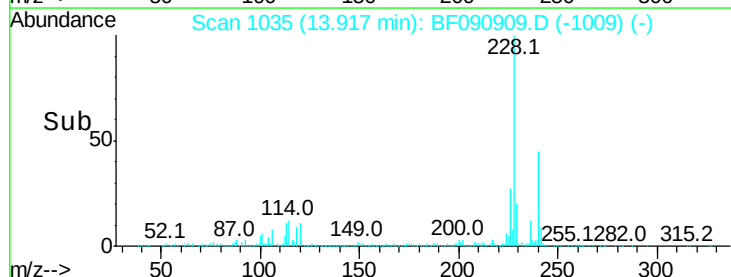
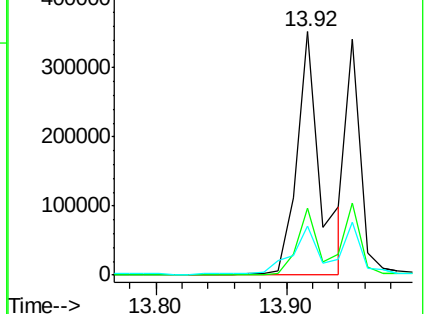
229 20.1 15.4 23.2

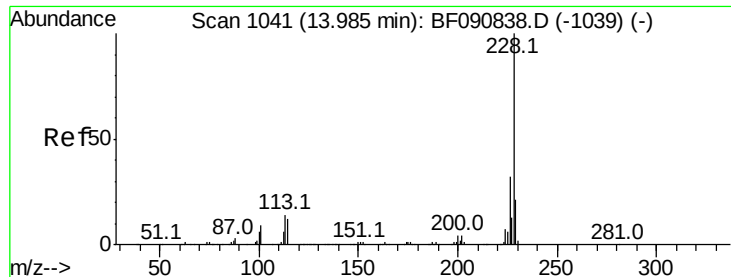


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 17.37 ng

RT: 13.92 min Scan# 1035

Delta R.T. -0.05 min

Lab File: BF090909.D

Acq: 28 Oct 2016 14:48

Instrument :

BNA_F

ClientSampleId :

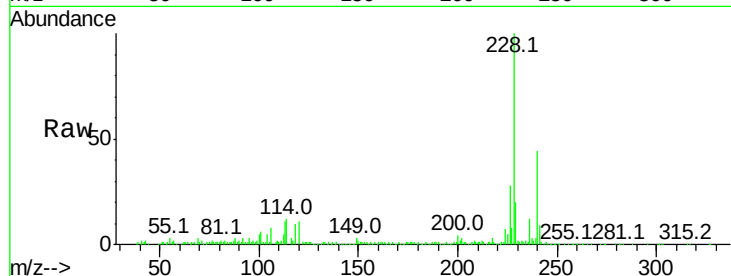
Tot Ion:228 Resp: 437913

Ion Ratio Lower Upper

228 100

226 27.6 21.0 31.4

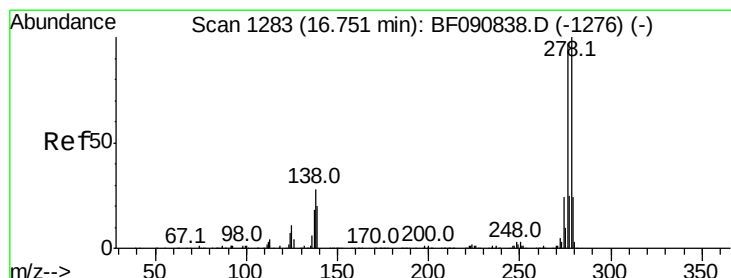
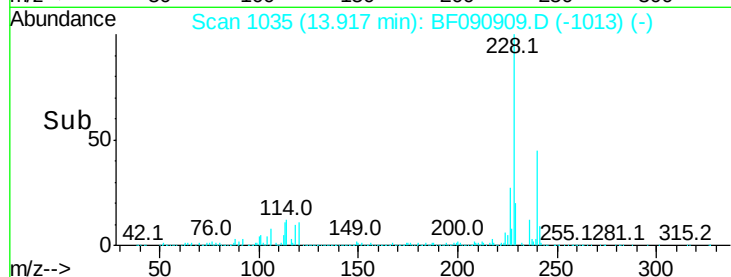
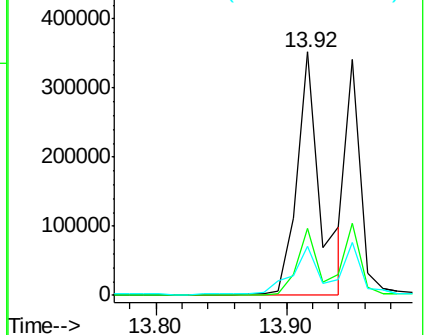
229 20.1 15.6 23.4



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: 6.17 ng

RT: 16.68 min Scan# 1277

Delta R.T. -0.02 min

Lab File: BF090909.D

Acq: 28 Oct 2016 14:48

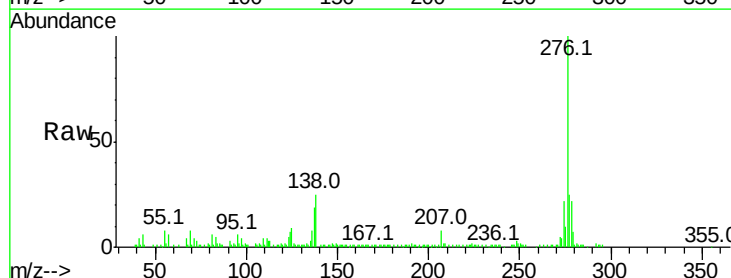
Tgt Ion:276 Resp: 137761

Ion Ratio Lower Upper

276 100

138 29.3 25.7 38.5

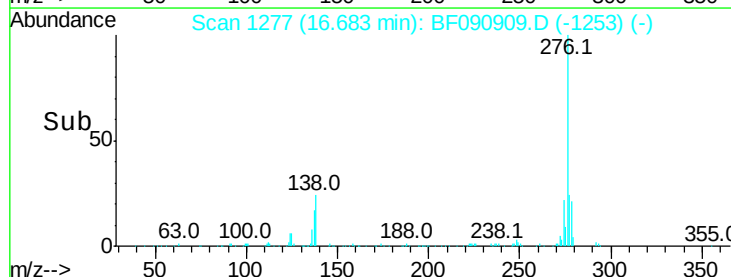
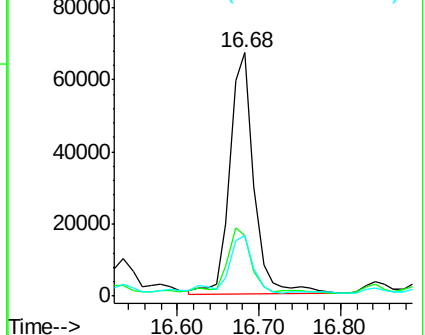
277 27.0 15.6 23.4#

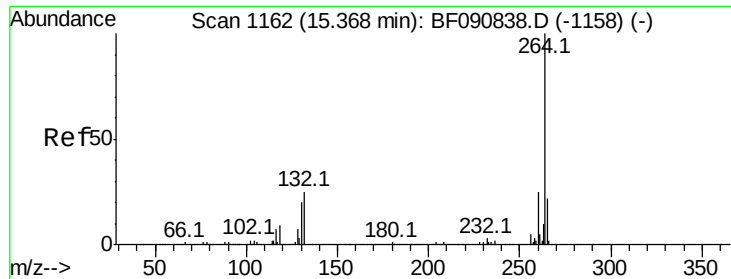


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

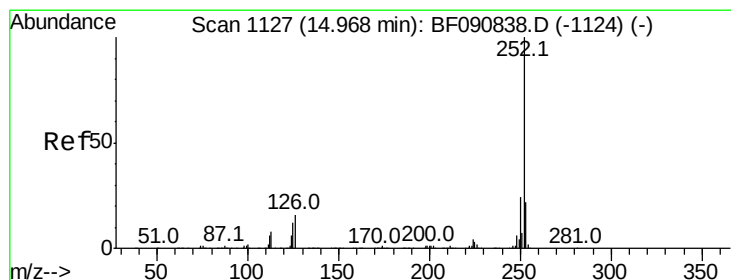
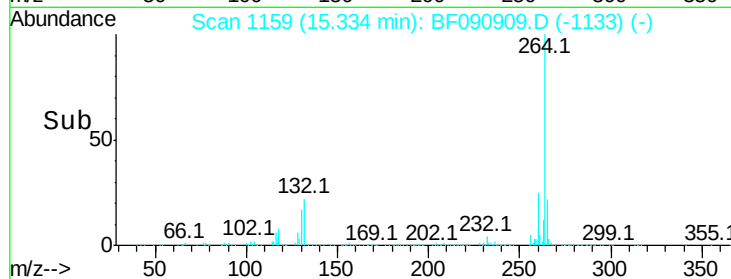
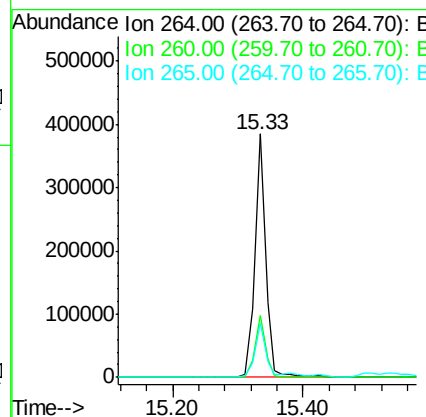
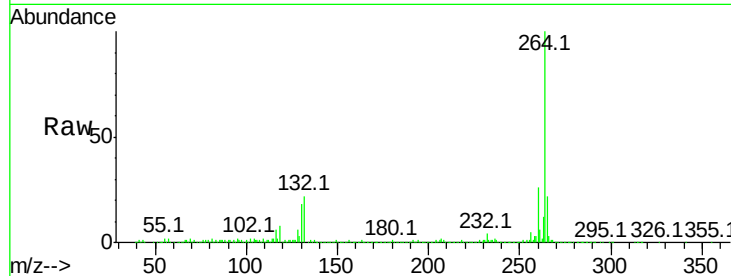




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.33 min Scan# 1159
Delta R.T. 0.00 min
Lab File: BF090909.D
Acq: 28 Oct 2016 14:48

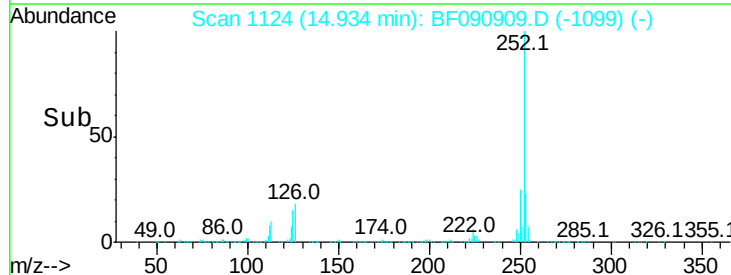
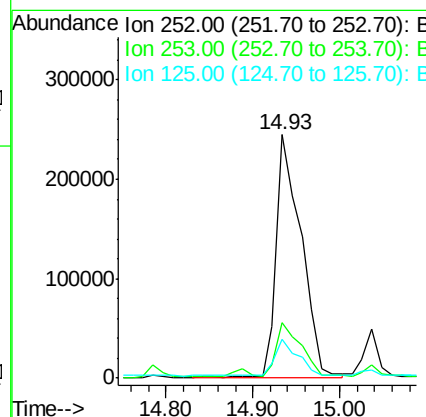
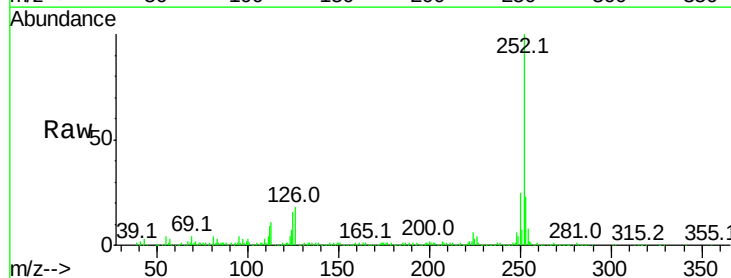
Instrument :
BNA_F
ClientSampleId :

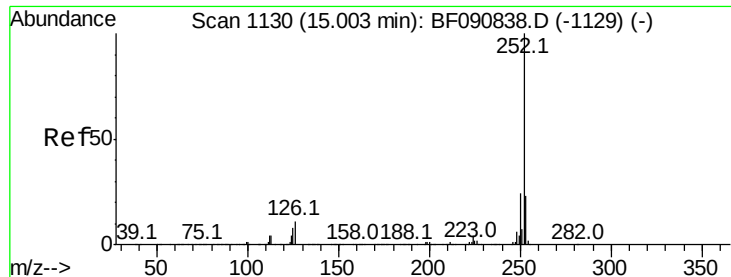
Tot Ion	Ratio	Lower	Upper
264	100		
260	25.6	16.7	25.1#
265	22.0	17.2	25.8



#87
Benzo(b)fluoranthene
Concen: 16.17 ng
RT: 14.93 min Scan# 1124
Delta R.T. -0.01 min
Lab File: BF090909.D
Acq: 28 Oct 2016 14:48

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.5	26.3
125	15.9	17.1	25.7#

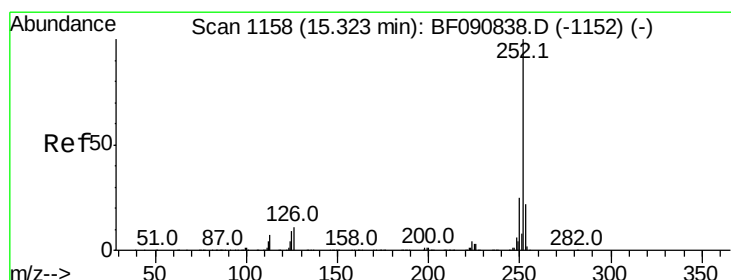
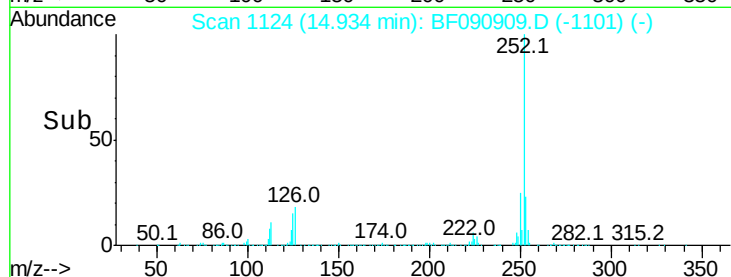
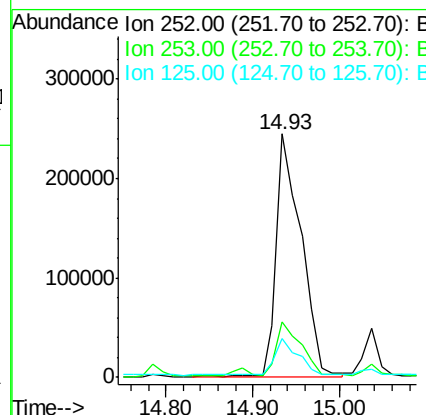
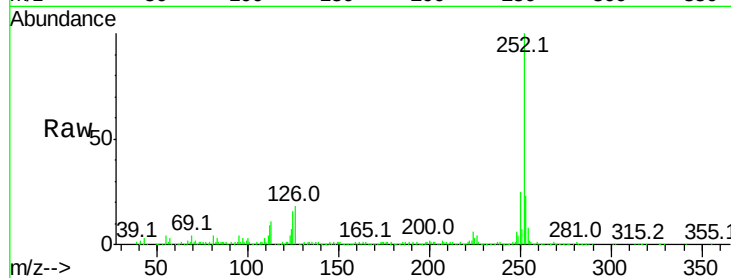




#88
Benzo(k)fluoranthene
Concen: 20.47 ng
RT: 14.93 min Scan# 1124
Delta R.T. -0.03 min
Lab File: BF090909.D
Acq: 28 Oct 2016 14:48

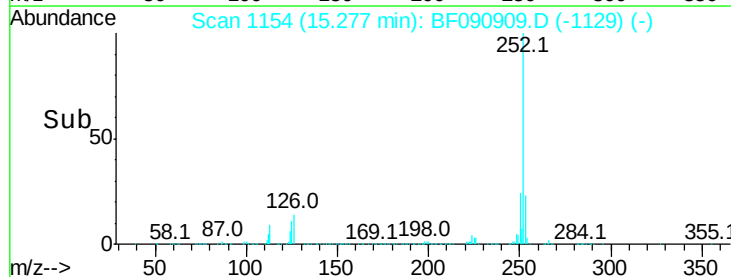
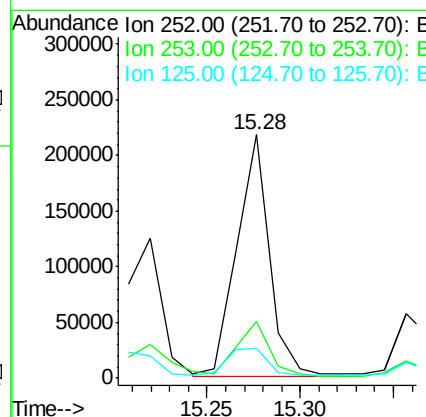
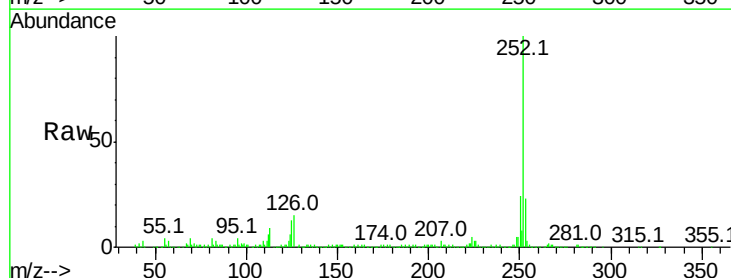
Instrument :
BNA_F
ClientSampleId :

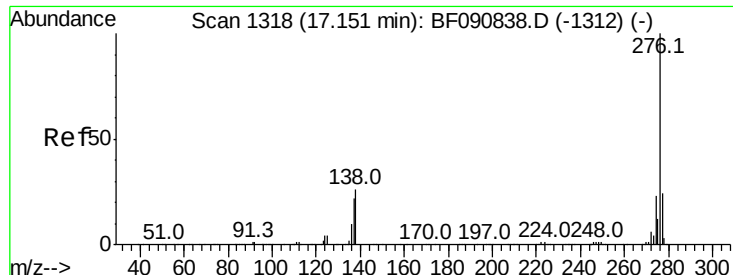
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.0	25.4
125	15.9	16.0	24.0#



#89
Benzo(a)pyrene
Concen: 10.41 ng
RT: 15.28 min Scan# 1154
Delta R.T. -0.01 min
Lab File: BF090909.D
Acq: 28 Oct 2016 14:48

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.2	25.8
125	12.5	18.0	27.0#





#91

Benzo(a,h,i)perylene

Concen: 5.41 ng

RT: 17.08 min Scan# 1312

Delta R.T. -0.02 min

Lab File: BF090909.D

Acq: 28 Oct 2016 14:48

Instrument :

BNA_F

ClientSampleId :

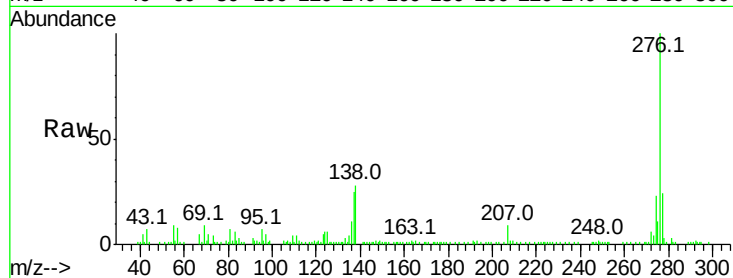
Tot Ion:276 Resp: 111121

Ion Ratio Lower Upper

276 100

277 23.6 17.8 26.6

138 28.2 34.6 51.8#



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

