

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040915\
 Data File : BF078392.D
 Acq On : 10 Apr 2015 9:14
 Operator : TP/IZ
 Sample : G1793-08DL 5X
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Apr 10 12:47:40 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 09 11:29:31 2015
 Response via : Initial Calibration

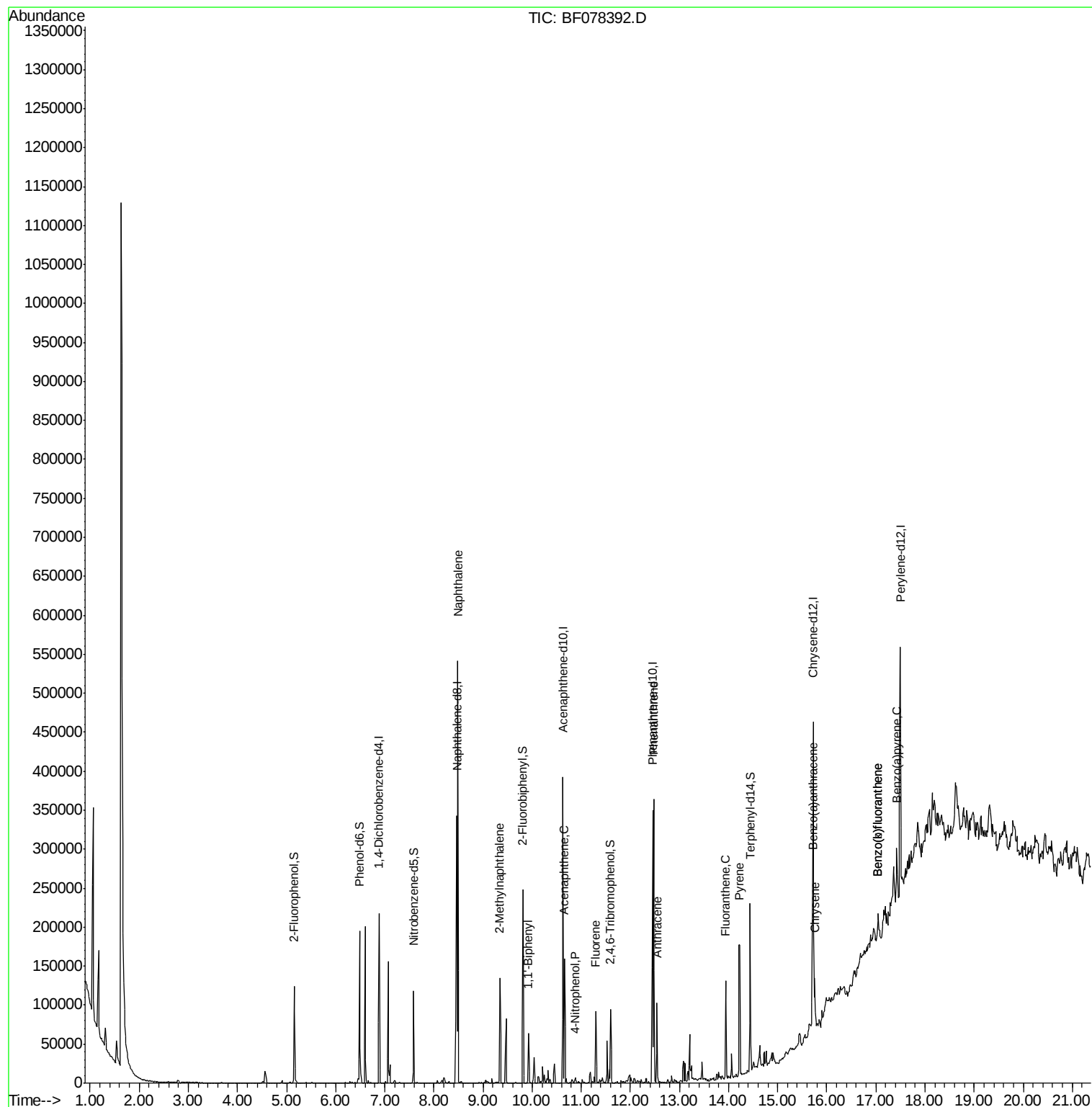
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	38307	20.00	ng	0.00
21) Naphthalene-d8	8.46	136	158460	20.00	ng	0.00
38) Acenaphthene-d10	10.63	164	77831	20.00	ng	-0.01
63) Phenanthrene-d10	12.45	188	149333	20.00	ng	-0.01
75) Chrysene-d12	15.72	240	149304	20.00	ng	-0.02
86) Perylene-d12	17.49	264	144259	20.00	ng	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.15	112	53073	22.84	ng	-0.02
7) Phenol-d6	6.49	99	74245	25.50	ng	0.01
23) Nitrobenzene-d5	7.58	82	36671	14.03	ng	0.00
41) 2,4,6-Tribromophenol	11.60	330	11858	18.37	ng	-0.02
44) 2-Fluorobiphenyl	9.81	172	82151	15.09	ng	0.00
78) Terphenyl-d14	14.44	244	77669	11.75	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	8.49	128	254576	30.87	ng	100
37) 2-Methylnaphthalene	9.34	142	45303	8.09	ng	99
45) 1,1'-Biphenyl	9.93	154	21799	3.42	ng	98
51) Acenaphthene	10.66	154	41904	9.20	ng	99
55) 4-Nitrophenol	10.88	139	1258	3.97	ng	# 18
57) Fluorene	11.30	166	31398	5.57	ng	99
70) Phenanthrene	12.48	178	160816	18.62	ng	100
71) Anthracene	12.55	178	47050	5.53	ng	99
74) Fluoranthene	13.94	202	74582	8.19	ng	98
77) Pyrene	14.23	202	108820	11.61	ng	99
80) Benzo(a)anthracene	15.71	228	35047	3.95	ng	# 79
82) Chrysene	15.76	228	24083	2.89	ng	97
87) Benzo(b)fluoranthene	17.04	252	33410	3.75	ng	# 80
88) Benzo(k)fluoranthene	17.04	252	33410	4.22	ng	# 83
89) Benzo(a)pyrene	17.43	252	28178	3.62	ng	# 82

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.89 min Scan# 525

Delta R.T. 0.00 min

Lab File: BF078392.D

Acq: 10 Apr 2015 9:14

Instrument :

BNA_F

ClientSampleId :

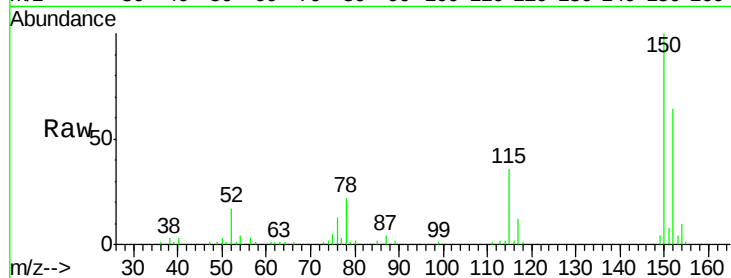
Tot Ion:152 Resp: 38307

Ion Ratio Lower Upper

152 100

150 155.4 125.9 188.9

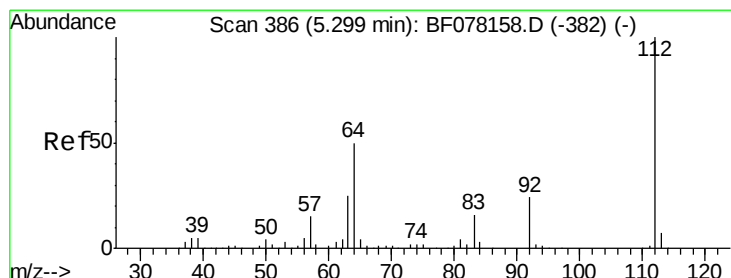
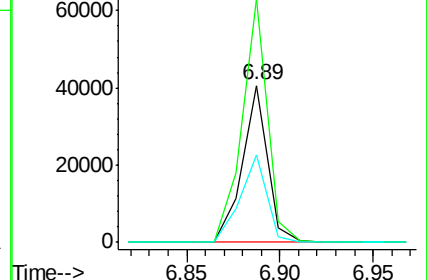
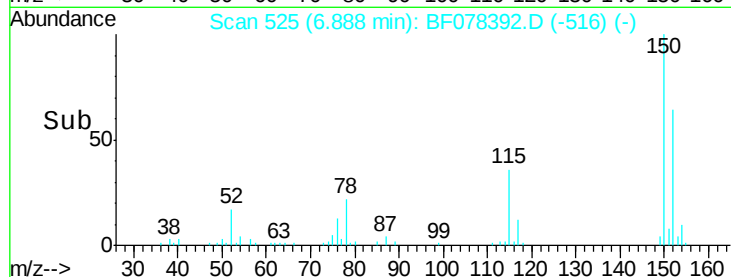
115 55.5 52.7 79.1



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: 22.84 ng

RT: 5.15 min Scan# 373

Delta R.T. -0.02 min

Lab File: BF078392.D

Acq: 10 Apr 2015 9:14

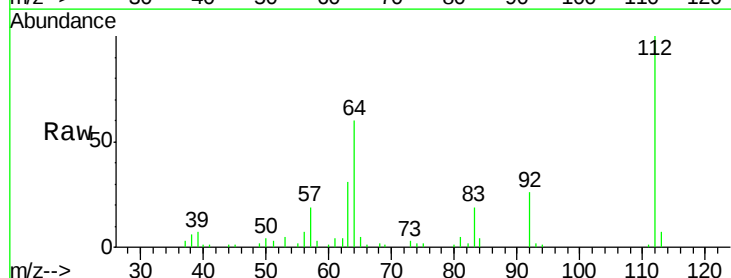
Tgt Ion:112 Resp: 53073

Ion Ratio Lower Upper

112 100

64 60.1 39.9 59.9#

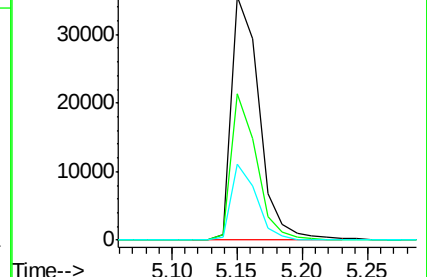
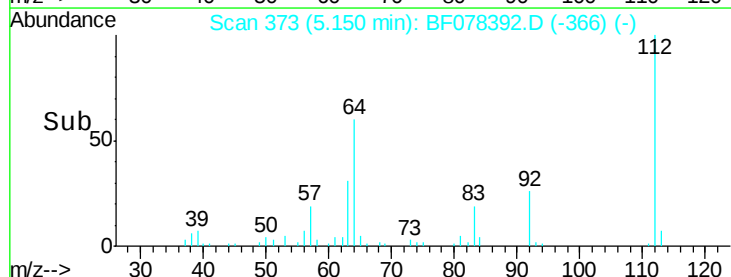
63 31.0 20.2 30.4#

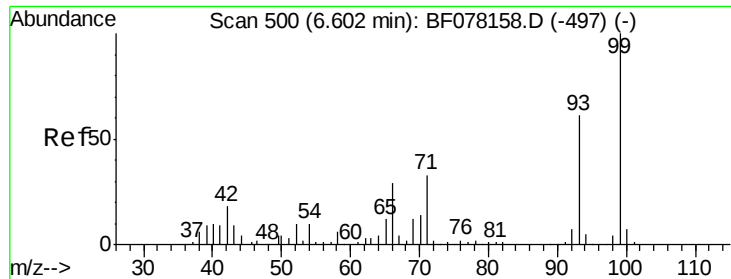


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 25.50 ng

RT: 6.49 min Scan# 490

Delta R.T. 0.01 min

Lab File: BF078392.D

Acq: 10 Apr 2015 9:14

Instrument :

BNA_F

ClientSampled :

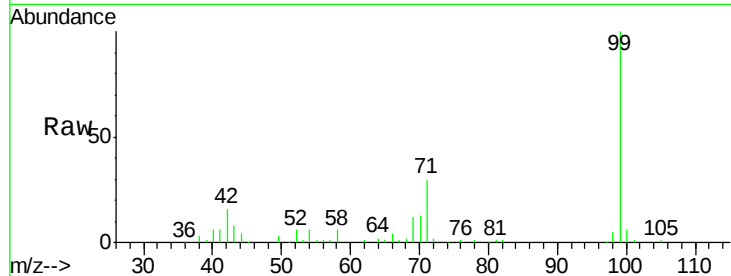
Tot Ion: 99 Resp: 74245

Ion Ratio Lower Upper

99 100

42 15.9 14.8 22.2

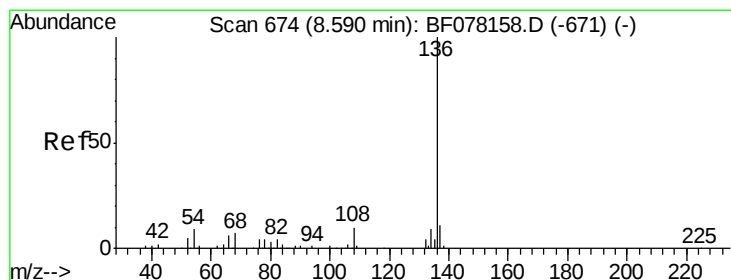
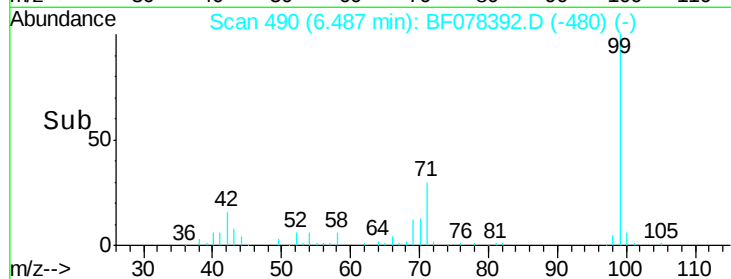
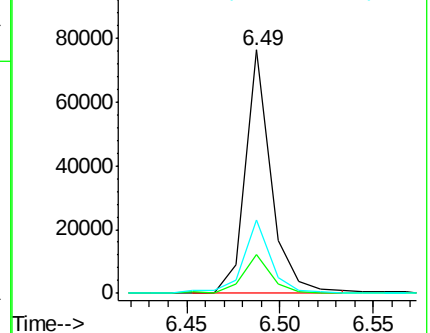
71 30.0 26.6 39.8



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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.46 min Scan# 663

Delta R.T. 0.00 min

Lab File: BF078392.D

Acq: 10 Apr 2015 9:14

Tgt Ion: 136 Resp: 158460

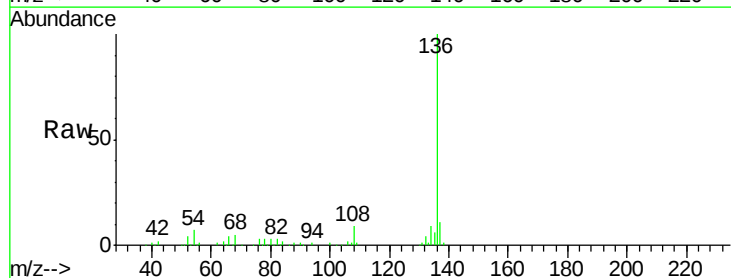
Ion Ratio Lower Upper

136 100

137 10.8 9.0 13.4

54 6.6 7.0 10.6#

68 5.0 5.4 8.2#

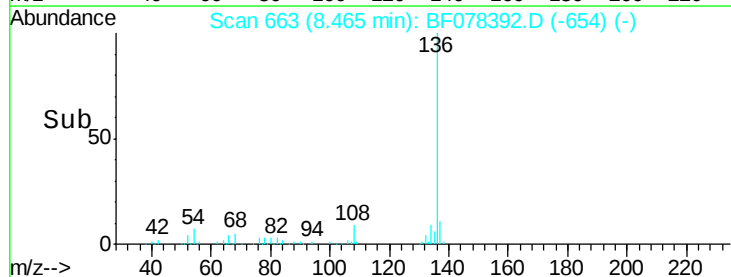
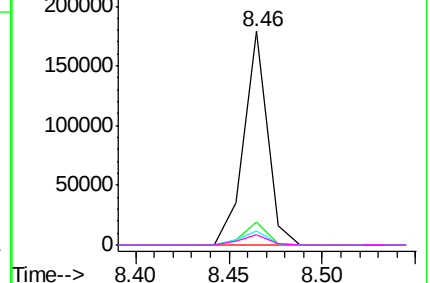


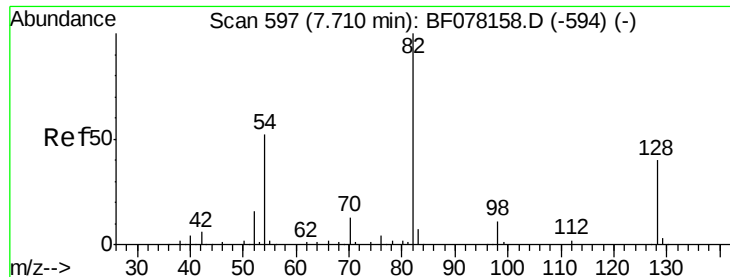
Abundance Ion 136.00 (135.70 to 136.70): E

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

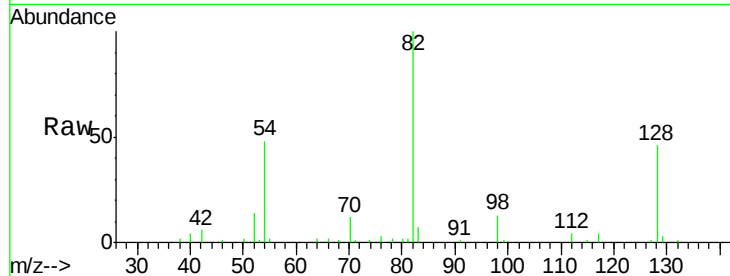




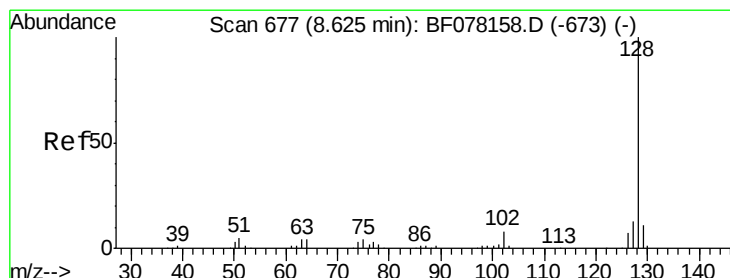
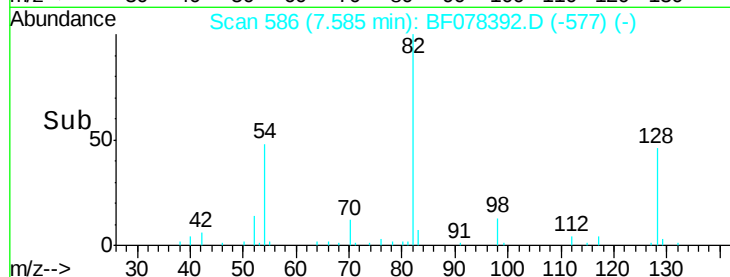
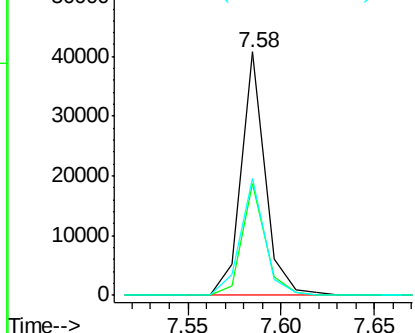
#23
 Nitrobenzene-d5
 Concen: 14.03 ng
 RT: 7.58 min Scan# 586
 Delta R.T. 0.00 min
 Lab File: BF078392.D
 Acq: 10 Apr 2015 9:14

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion: 82 Resp: 36671
 Ion Ratio Lower Upper
 82 100
 128 45.8 31.8 47.8
 54 48.1 41.5 62.3

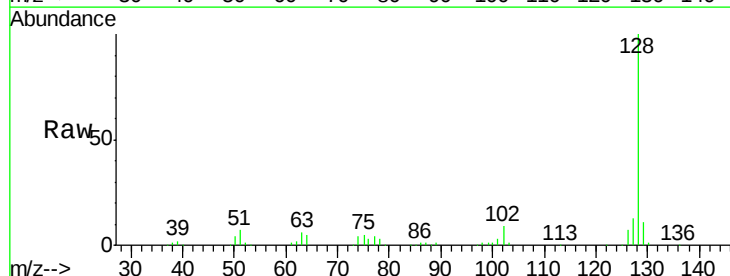


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

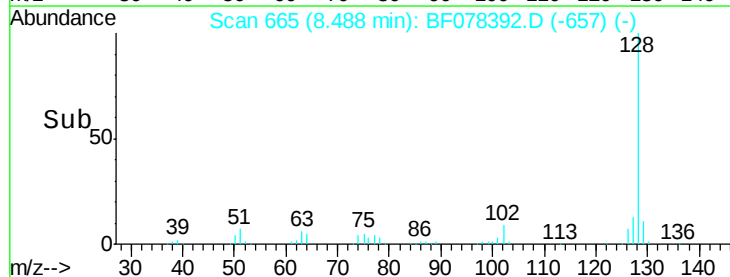
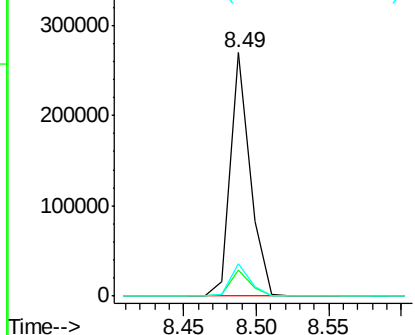


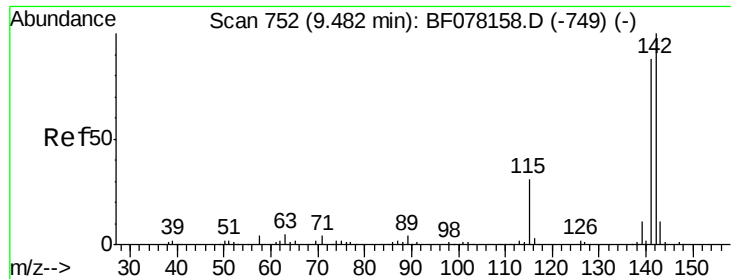
#31
 Naphthalene
 Concen: 30.87 ng
 RT: 8.49 min Scan# 665
 Delta R.T. -0.01 min
 Lab File: BF078392.D
 Acq: 10 Apr 2015 9:14

Tgt Ion: 128 Resp: 254576
 Ion Ratio Lower Upper
 128 100
 129 10.7 8.6 12.8
 127 13.2 10.7 16.1



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

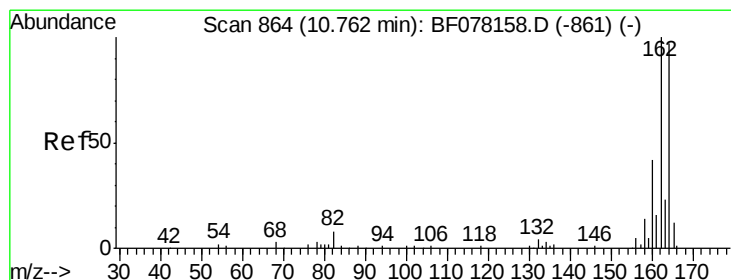
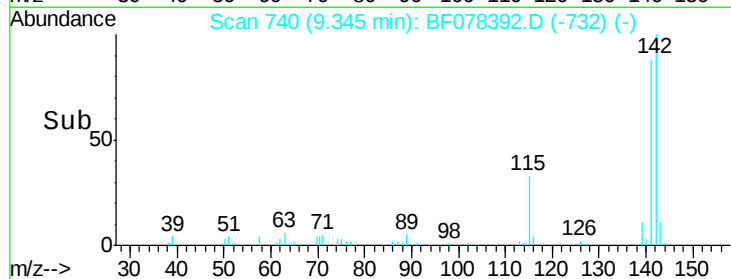
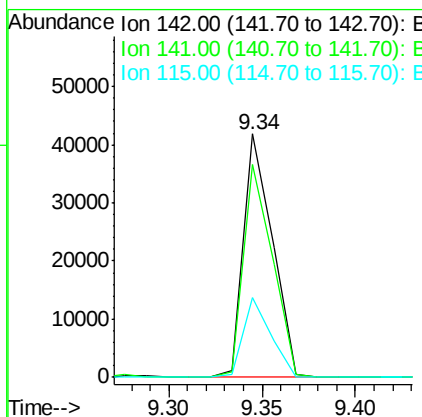
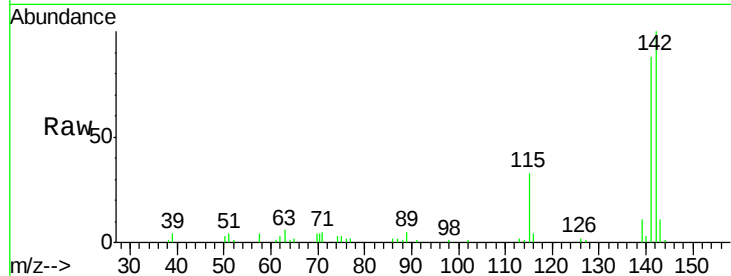




#37
 2-Methylnaphthalene
 Concen: 8.09 ng
 RT: 9.34 min Scan# 740
 Delta R.T. -0.01 min
 Lab File: BF078392.D
 Acq: 10 Apr 2015 9:14

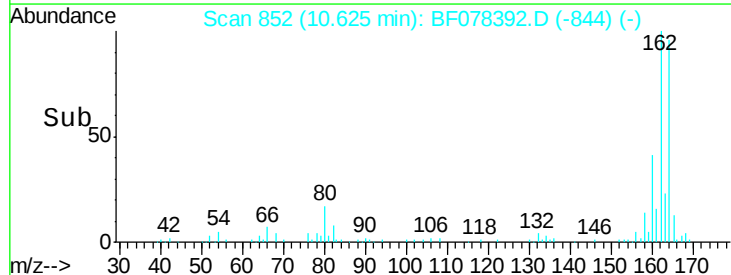
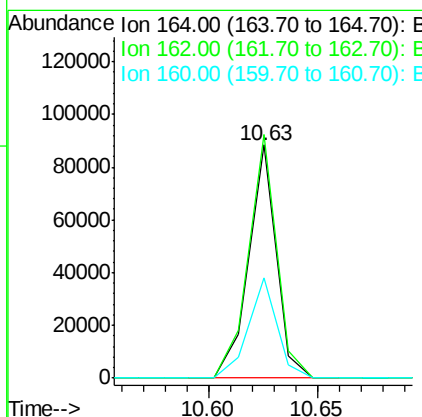
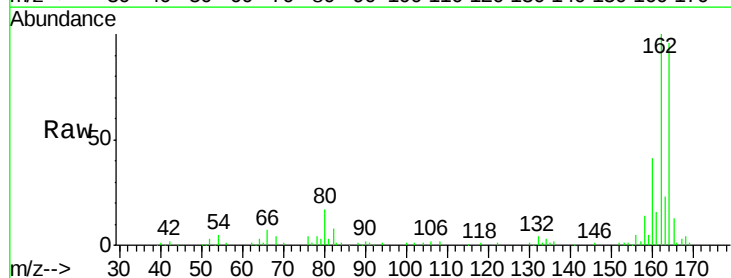
Instrument :
 BNA_F
 ClientSampleId :

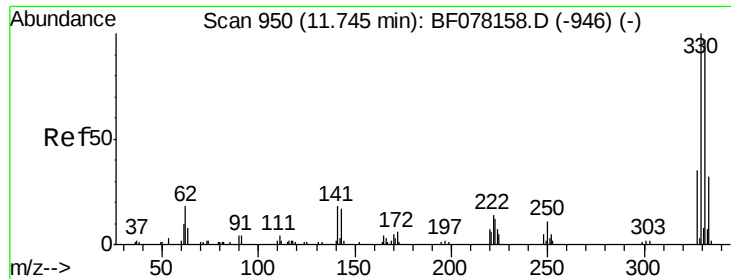
Tot Ion:142 Resp: 45303
 Ion Ratio Lower Upper
 142 100
 141 87.5 70.3 105.5
 115 33.0 24.6 37.0



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 10.63 min Scan# 852
 Delta R.T. -0.01 min
 Lab File: BF078392.D
 Acq: 10 Apr 2015 9:14

Tgt Ion:164 Resp: 77831
 Ion Ratio Lower Upper
 164 100
 162 104.6 82.2 123.2
 160 42.9 34.7 52.1

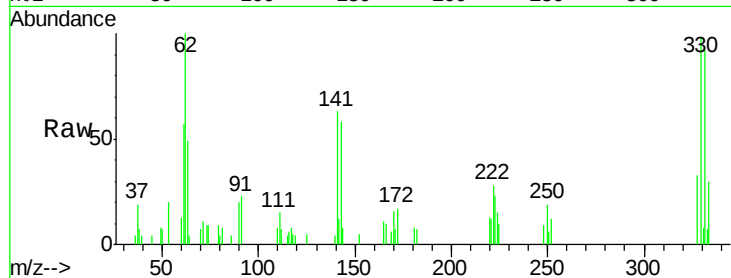




#41
 2,4,6-Tribromophenol
 Concen: 18.37 ng
 RT: 11.60 min Scan# 937
 Delta R.T. -0.02 min
 Lab File: BF078392.D
 Acq: 10 Apr 2015 9:14

Instrument :
 BNA_F
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
330	100		
332	100.4	78.6	117.8
141	43.8	31.2	46.8

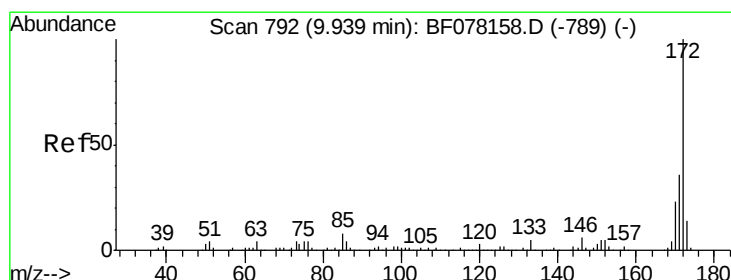
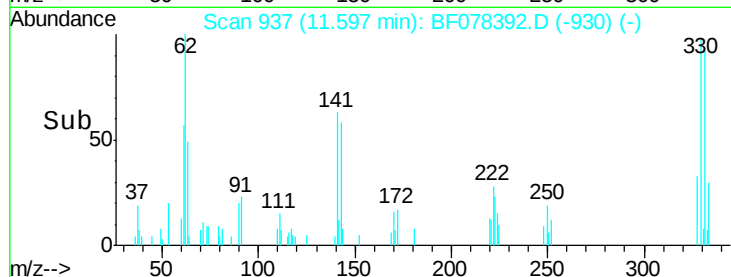
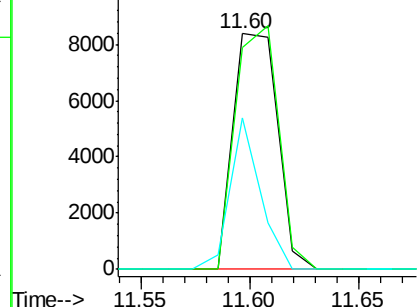


Abundance

Ion 329.80 (329.50 to 330.50): E

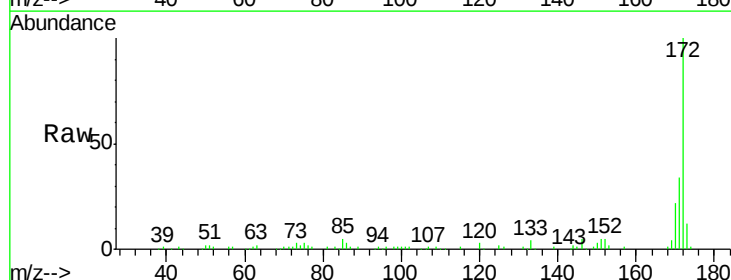
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44
 2-Fluorobiphenyl
 Concen: 15.09 ng
 RT: 9.81 min Scan# 781
 Delta R.T. 0.00 min
 Lab File: BF078392.D
 Acq: 10 Apr 2015 9:14

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.4	28.6	42.8
170	22.3	18.5	27.7

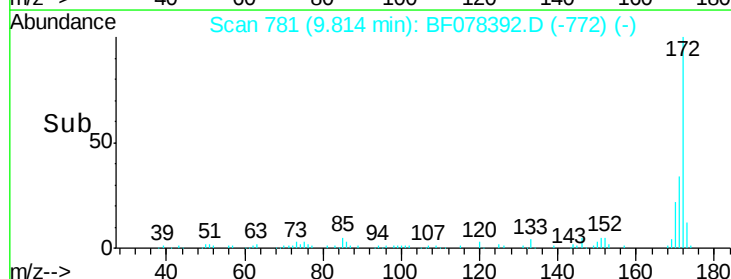
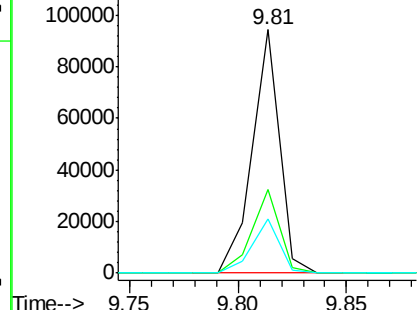


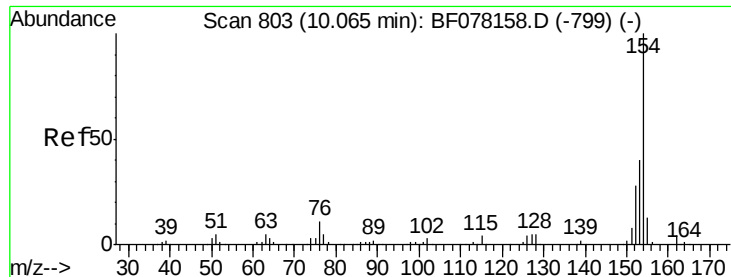
Abundance

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

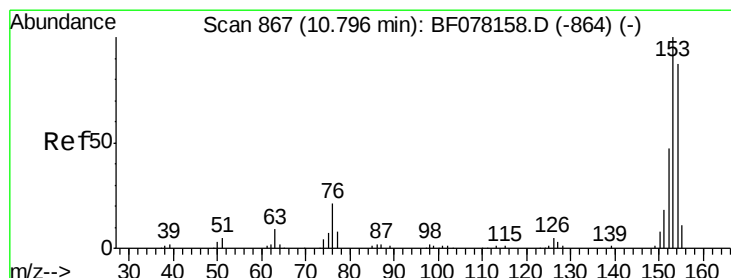
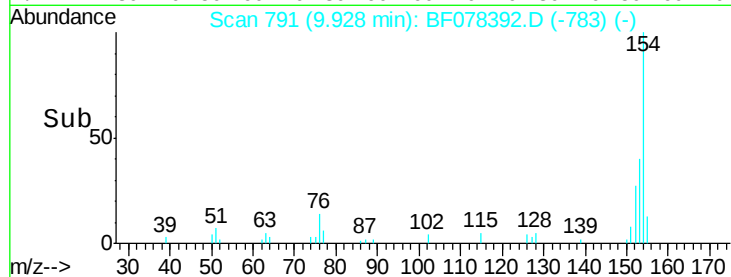
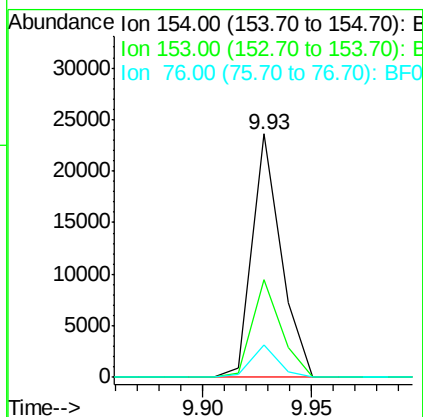
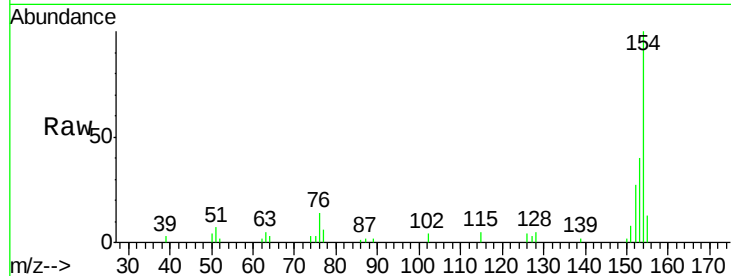




#45
1,1'-Biphenyl
Concen: 3.42 ng
RT: 9.93 min Scan# 791
Delta R.T. -0.01 min
Lab File: BF078392.D
Acq: 10 Apr 2015 9:14

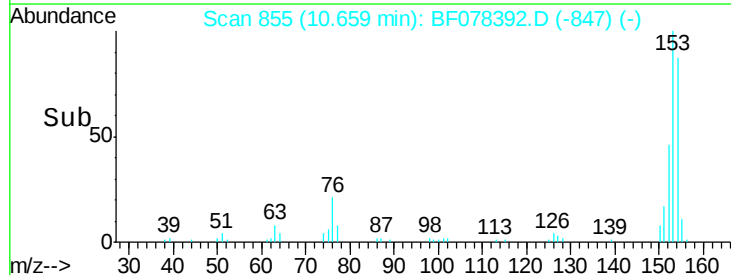
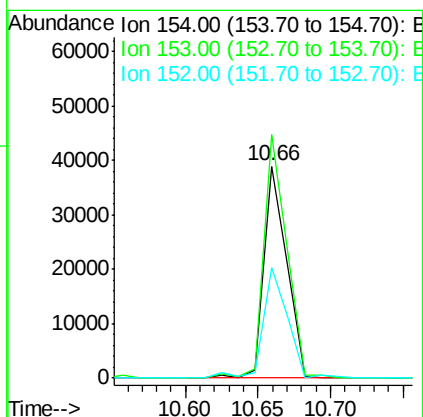
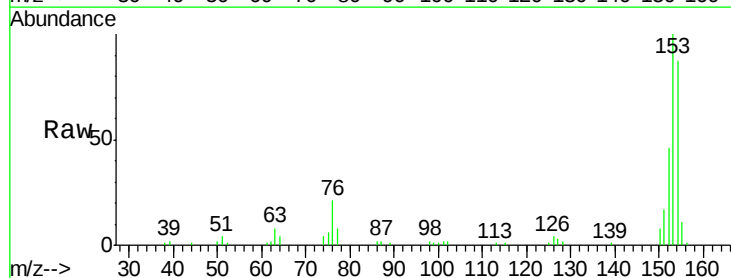
Instrument :
BNA_F
ClientSampleId :

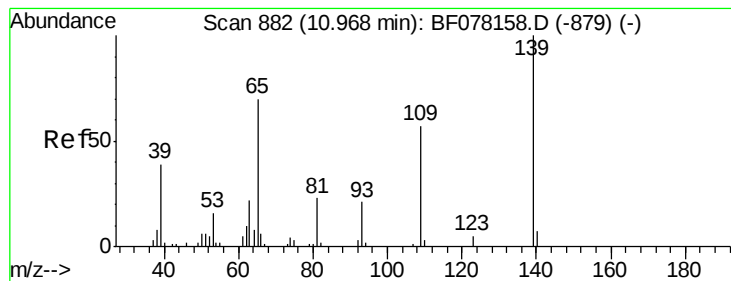
Tot Ion:154 Resp: 21799
Ion Ratio Lower Upper
154 100
153 40.1 20.0 60.0
76 13.6 0.0 30.6



#51
Acenaphthene
Concen: 9.20 ng
RT: 10.66 min Scan# 855
Delta R.T. -0.01 min
Lab File: BF078392.D
Acq: 10 Apr 2015 9:14

Tgt Ion:154 Resp: 41904
Ion Ratio Lower Upper
154 100
153 114.9 91.4 137.2
152 52.4 43.0 64.6





#55

4-Nitrophenol

Concen: 3.97 ng

RT: 10.88 min Scan# 874

Delta R.T. 0.04 min

Lab File: BF078392.D

Acq: 10 Apr 2015 9:14

Instrument :

BNA_F

ClientSampleId :

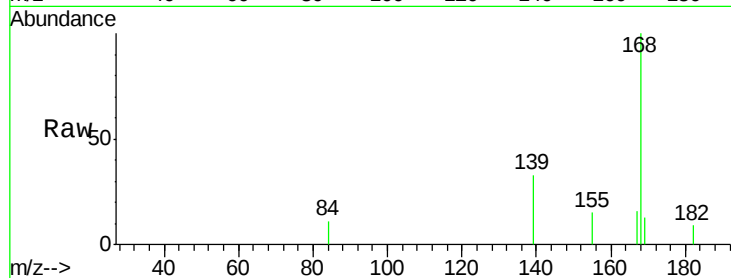
Tot Ion:139 Resp: 1258

Ion Ratio Lower Upper

139 100

109 0.0 36.7 76.7#

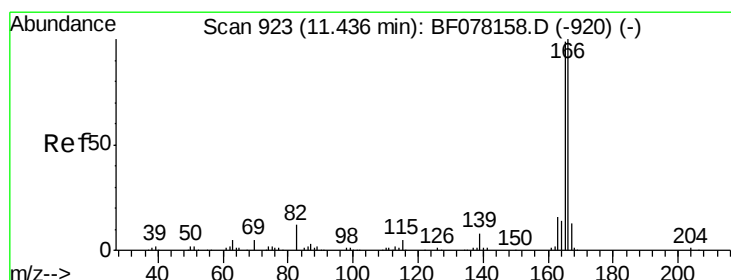
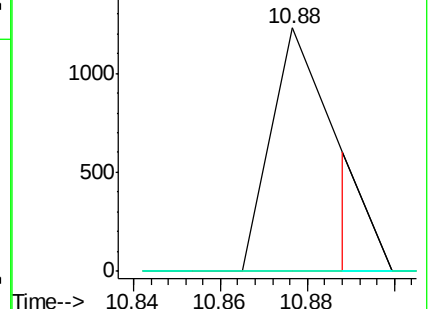
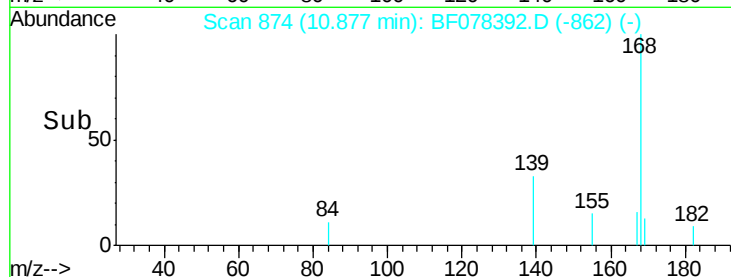
65 0.0 49.9 89.9#



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: 5.57 ng

RT: 11.30 min Scan# 911

Delta R.T. -0.01 min

Lab File: BF078392.D

Acq: 10 Apr 2015 9:14

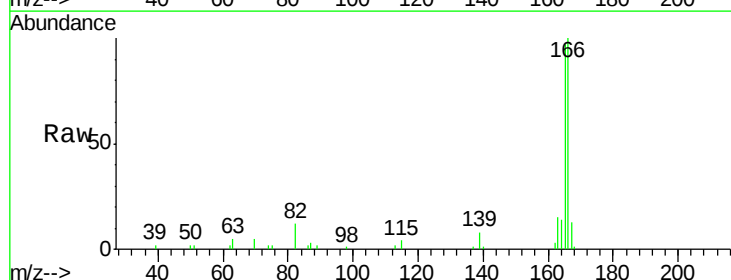
Tgt Ion:166 Resp: 31398

Ion Ratio Lower Upper

166 100

165 97.4 78.9 118.3

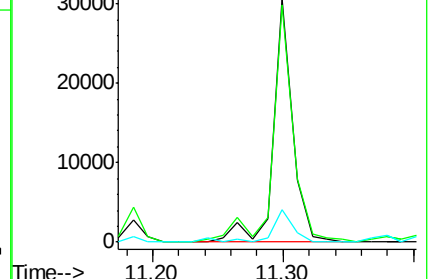
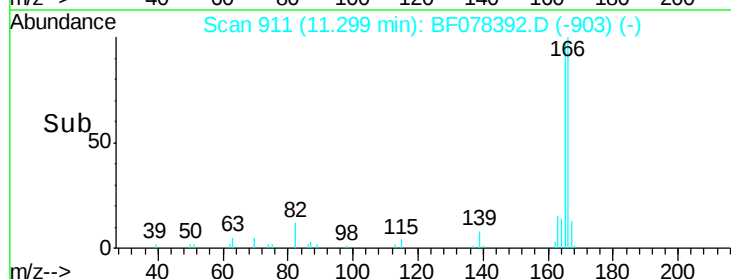
167 13.1 10.7 16.1

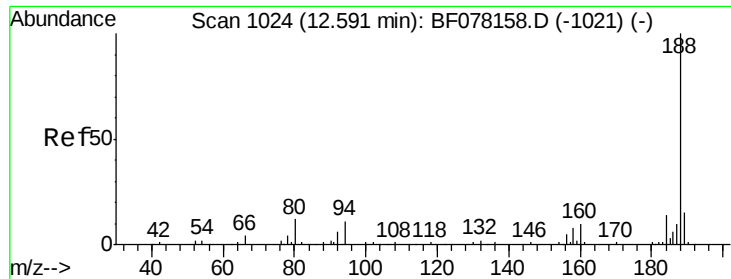


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

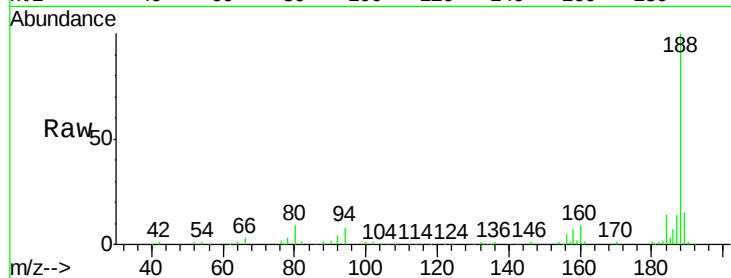




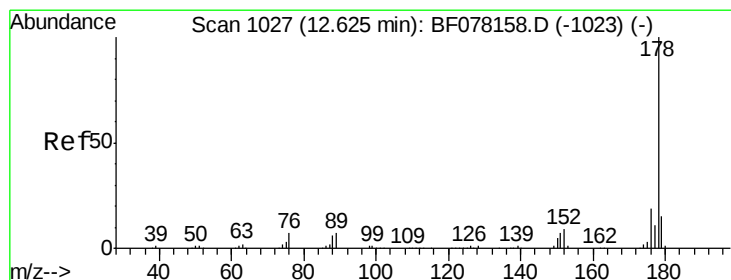
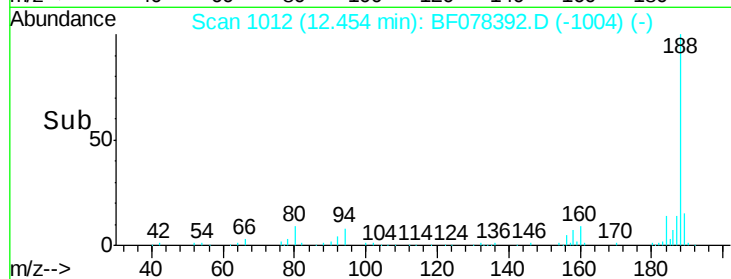
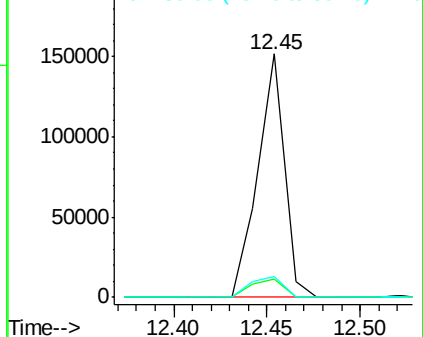
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 12.45 min Scan# 1012
Delta R.T. -0.01 min
Lab File: BF078392.D
Acq: 10 Apr 2015 9:14

Instrument :
BNA_F
ClientSampleId :

Tot Ion:188 Resp: 149333
Ion Ratio Lower Upper
188 100
94 7.7 9.0 13.4#
80 8.7 9.5 14.3#

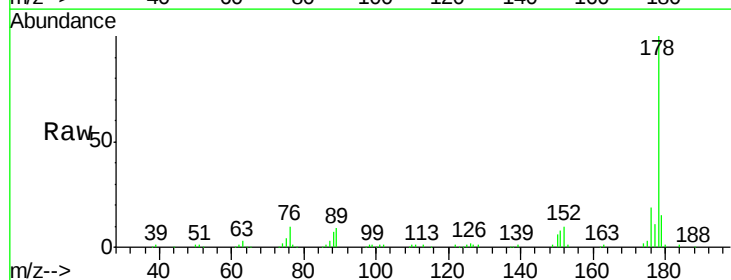


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

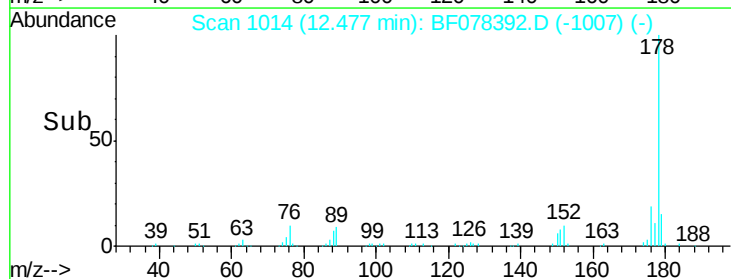
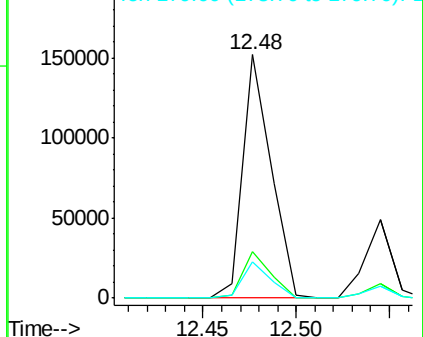


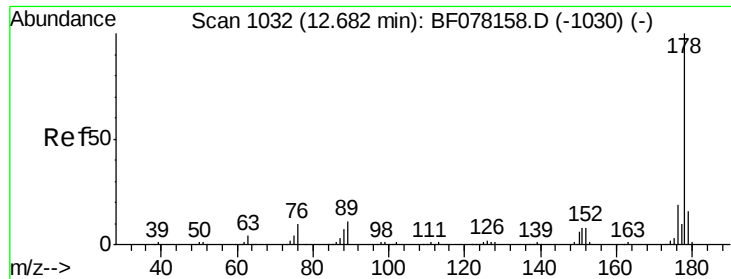
#70
Phenanthrene
Concen: 18.62 ng
RT: 12.48 min Scan# 1014
Delta R.T. -0.02 min
Lab File: BF078392.D
Acq: 10 Apr 2015 9:14

Tgt Ion:178 Resp: 160816
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.0
179 15.1 12.2 18.2



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

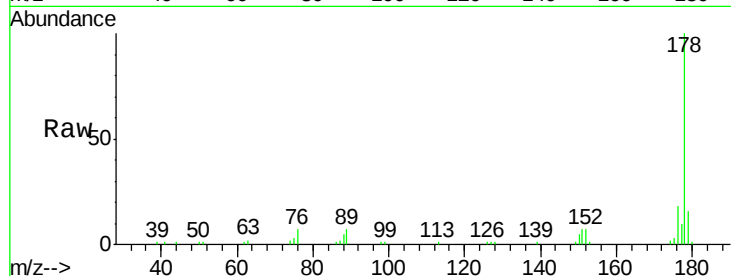




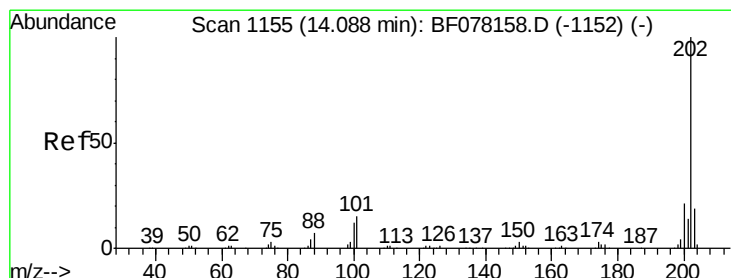
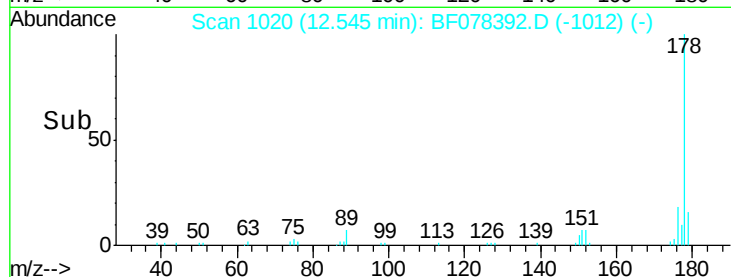
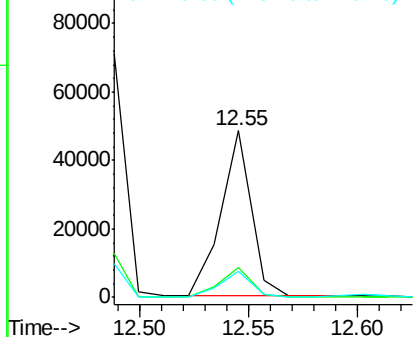
#71
 Anthracene
 Concen: 5.53 ng
 RT: 12.55 min Scan# 1020
 Delta R.T. -0.01 min
 Lab File: BF078392.D
 Acq: 10 Apr 2015 9:14

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:178 Resp: 47050
 Ion Ratio Lower Upper
 178 100
 176 18.0 14.8 22.2
 179 15.9 12.4 18.6

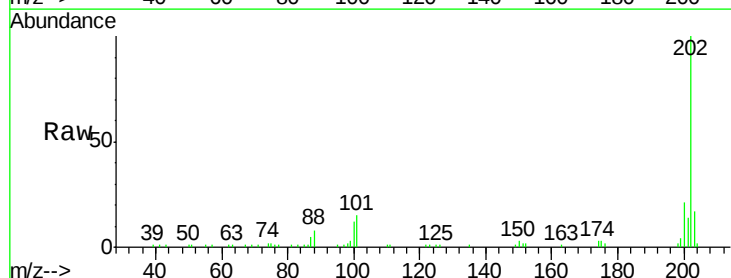


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

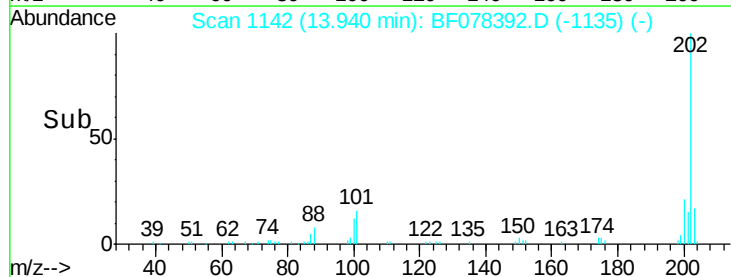
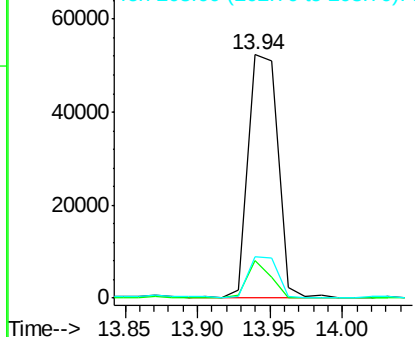


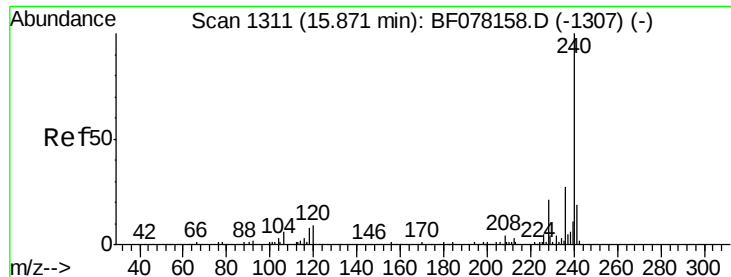
#74
 Fluoranthene
 Concen: 8.19 ng
 RT: 13.94 min Scan# 1142
 Delta R.T. -0.02 min
 Lab File: BF078392.D
 Acq: 10 Apr 2015 9:14

Tgt Ion:202 Resp: 74582
 Ion Ratio Lower Upper
 202 100
 101 15.5 0.0 35.2
 203 17.2 0.0 38.5



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: 15.72 min Scan# 1298

Delta R.T. -0.02 min

Lab File: BF078392.D

Acq: 10 Apr 2015 9:14

Instrument :

BNA_F

ClientSampleId :

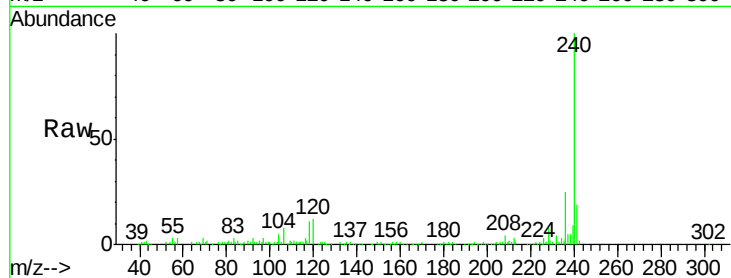
Tot Ion:240 Resp: 149304

Ion Ratio Lower Upper

240 100

120 12.1 7.1 10.7#

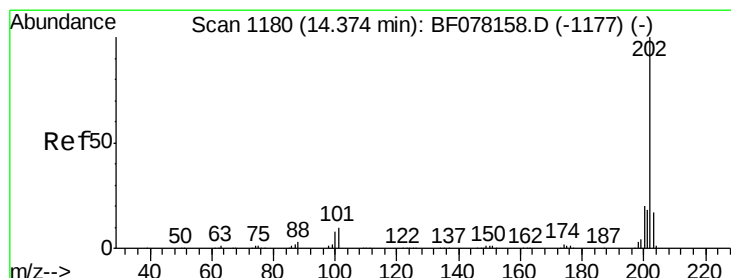
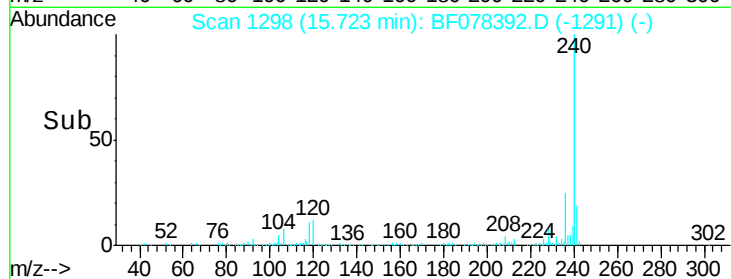
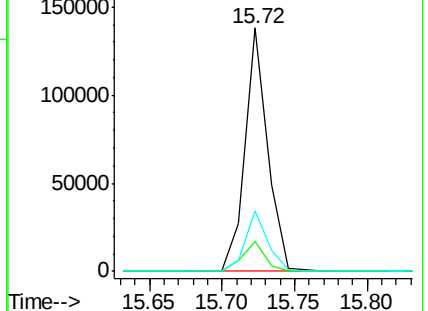
236 25.1 21.4 32.2



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: 11.61 ng

RT: 14.23 min Scan# 1167

Delta R.T. -0.02 min

Lab File: BF078392.D

Acq: 10 Apr 2015 9:14

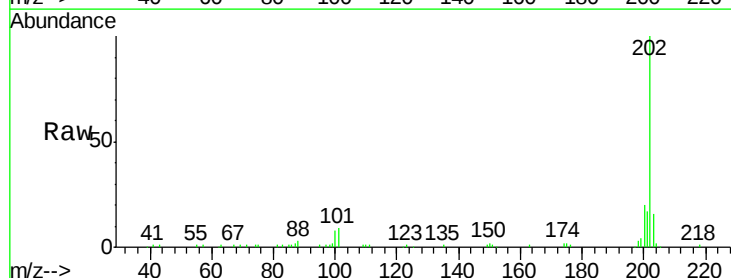
Tgt Ion:202 Resp: 108820

Ion Ratio Lower Upper

202 100

200 19.9 16.3 24.5

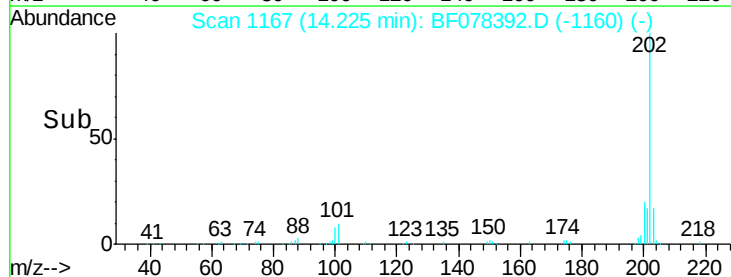
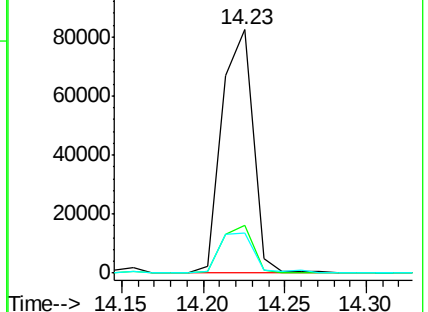
203 16.5 13.8 20.6

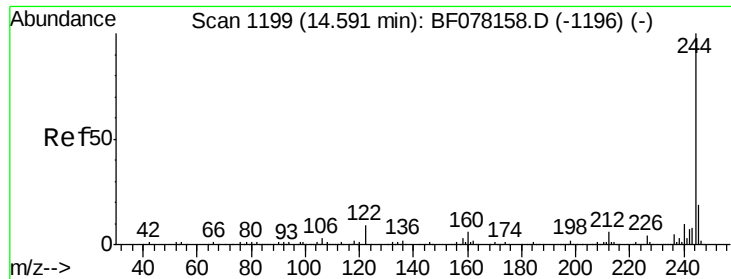


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 11.75 ng

RT: 14.44 min Scan# 1186

Delta R.T. -0.02 min

Lab File: BF078392.D

Acq: 10 Apr 2015 9:14

Instrument :

BNA_F

ClientSampleId :

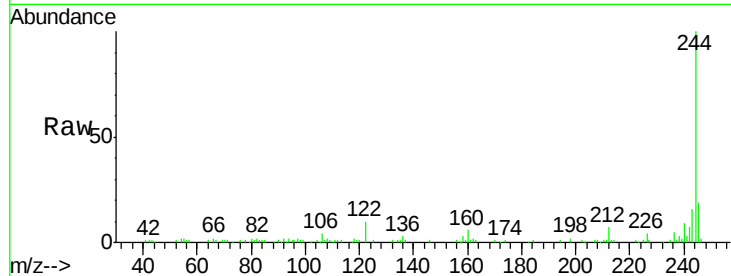
Tot Ion:244 Resp: 77669

Ion Ratio Lower Upper

244 100

212 6.6 5.0 7.4

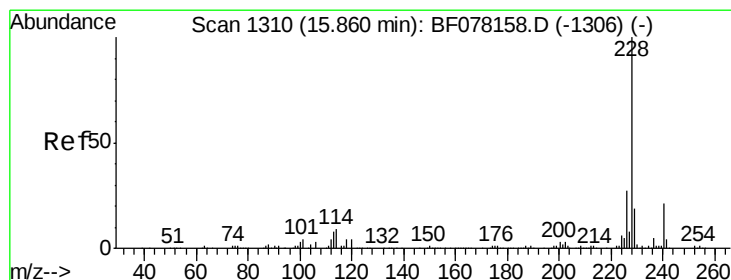
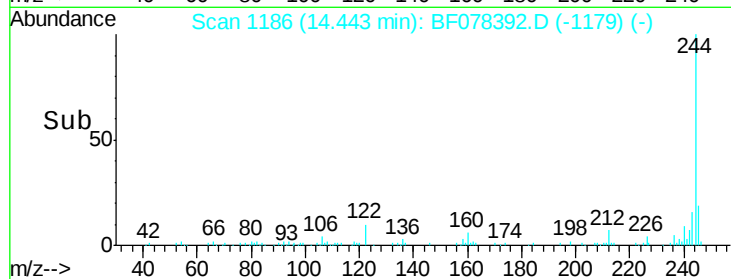
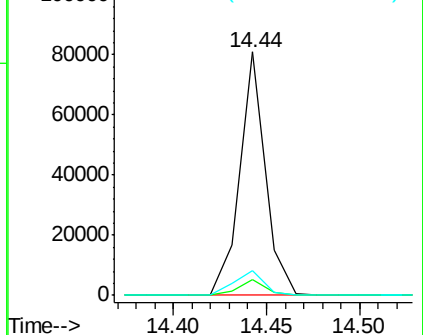
122 10.0 7.1 10.7



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: 3.95 ng

RT: 15.71 min Scan# 1297

Delta R.T. -0.02 min

Lab File: BF078392.D

Acq: 10 Apr 2015 9:14

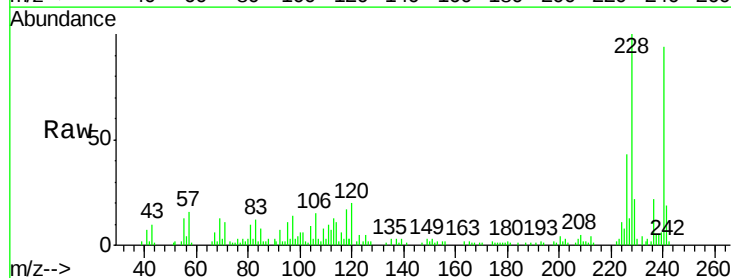
Tgt Ion:228 Resp: 35047

Ion Ratio Lower Upper

228 100

226 43.2 21.3 31.9#

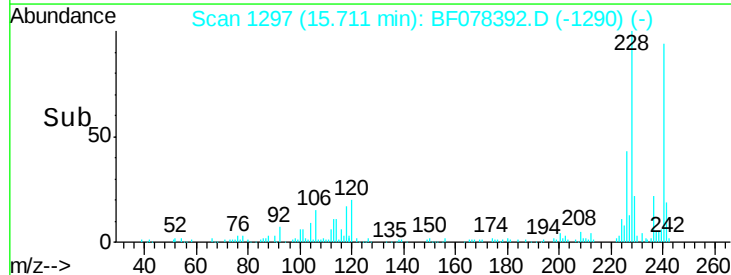
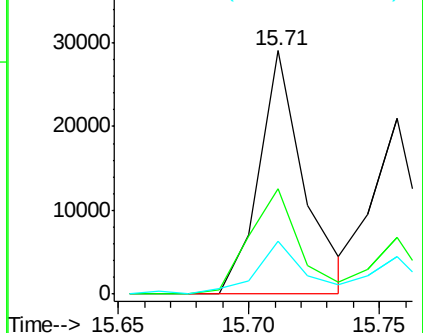
229 21.9 15.4 23.2

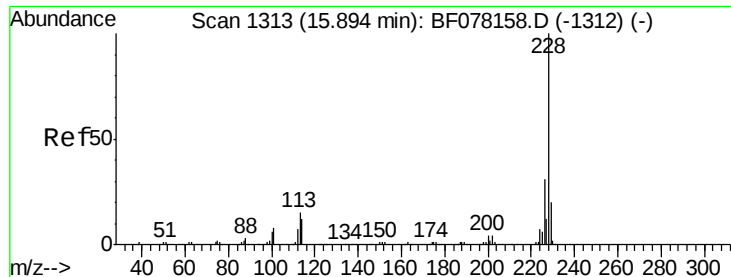


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

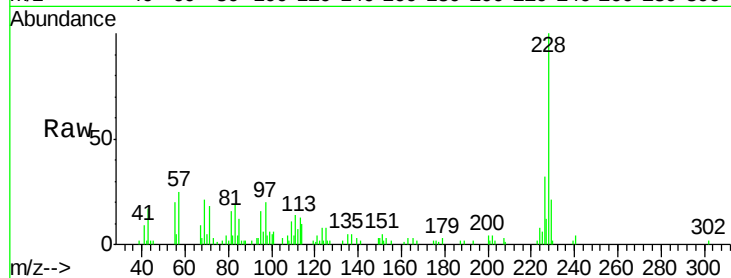




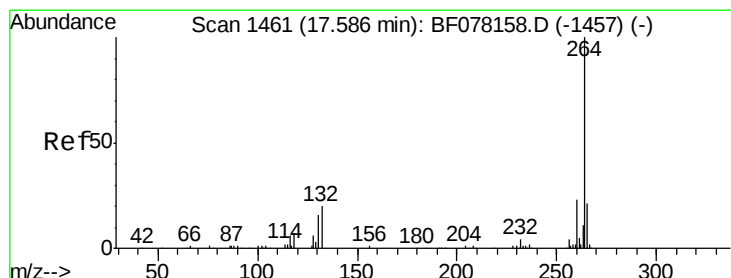
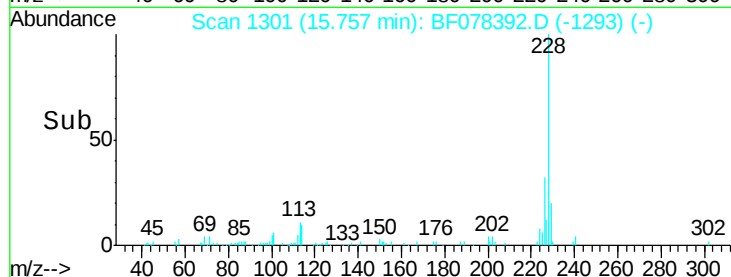
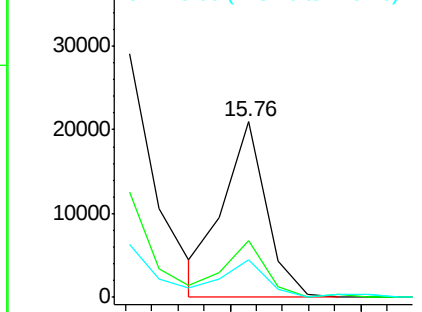
#82
Chrysene
Concen: 2.89 ng
RT: 15.76 min Scan# 1301
Delta R.T. -0.01 min
Lab File: BF078392.D
Acq: 10 Apr 2015 9:14

Instrument :
BNA_F
ClientSampled :

Tot Ion:228 Resp: 24083
Ion Ratio Lower Upper
228 100
226 32.3 24.2 36.4
229 21.2 15.8 23.8

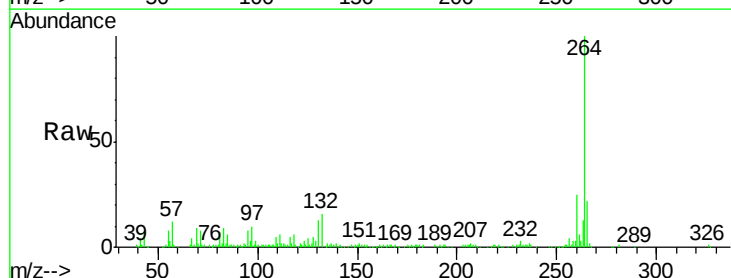


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

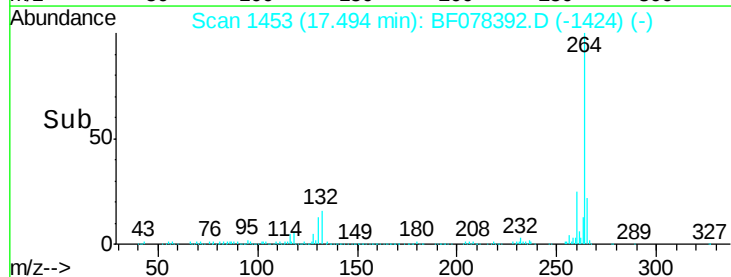
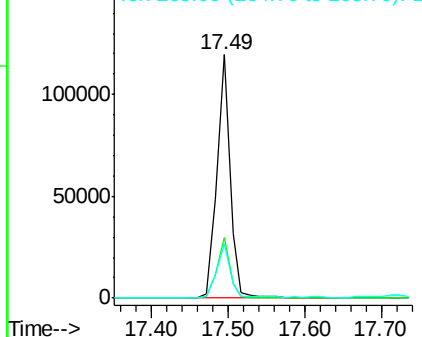


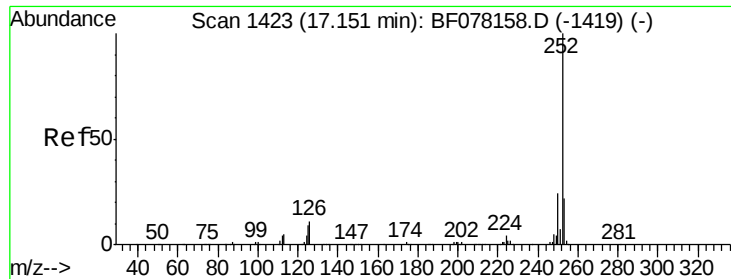
#86
Perylene-d12
Concen: 20.00 ng
RT: 17.49 min Scan# 1453
Delta R.T. 0.03 min
Lab File: BF078392.D
Acq: 10 Apr 2015 9:14

Tgt Ion:264 Resp: 144259
Ion Ratio Lower Upper
264 100
260 24.7 18.6 27.8
265 22.1 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: 3.75 ng

RT: 17.04 min Scan# 1413

Delta R.T. 0.01 min

Lab File: BF078392.D

Acq: 10 Apr 2015 9:14

Instrument :

BNA_F

ClientSampleId :

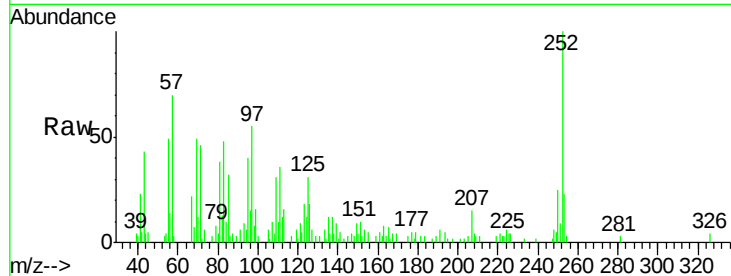
Tot Ion:252 Resp: 33410

Ion Ratio Lower Upper

252 100

253 22.9 17.2 25.8

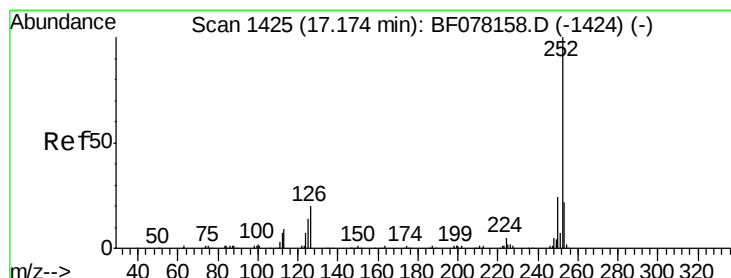
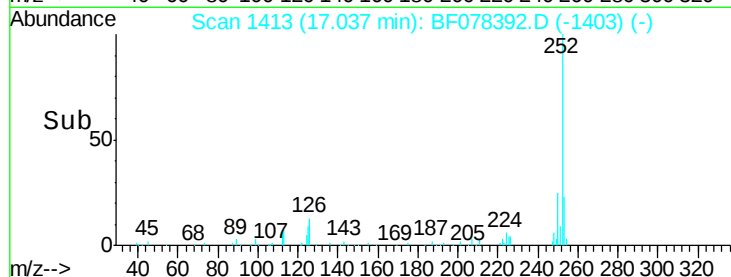
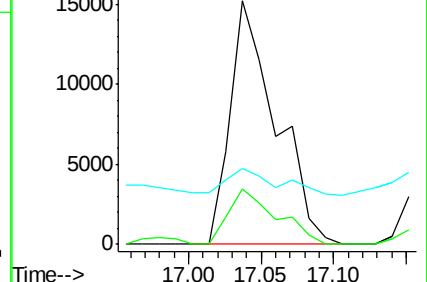
125 31.0 7.0 10.4#



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



#88

Benzo(k)fluoranthene

Concen: 4.22 ng

RT: 17.04 min Scan# 1413

Delta R.T. -0.01 min

Lab File: BF078392.D

Acq: 10 Apr 2015 9:14

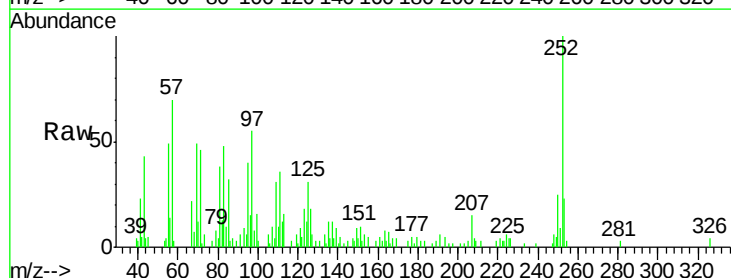
Tgt Ion:252 Resp: 33410

Ion Ratio Lower Upper

252 100

253 22.9 17.5 26.3

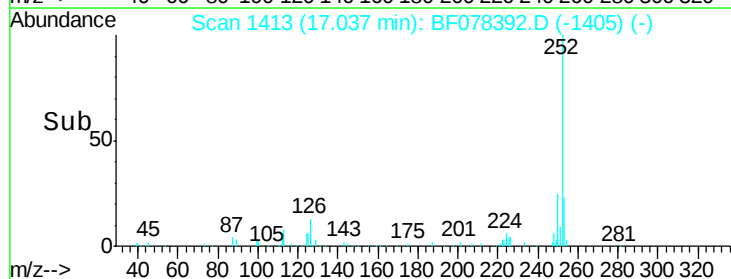
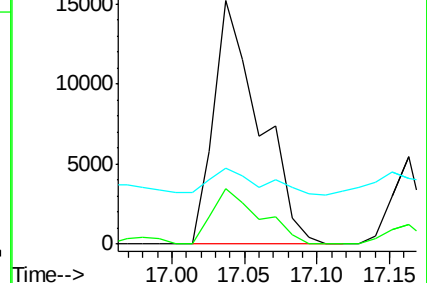
125 31.0 11.6 17.4#

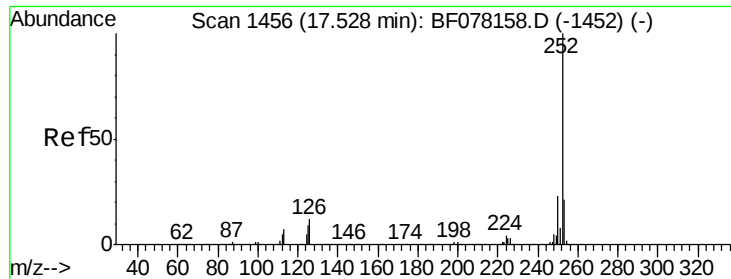


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 3.62 ng

RT: 17.43 min Scan# 1447

Delta R.T. 0.02 min

Lab File: BF078392.D

Acq: 10 Apr 2015 9:14

Instrument :

BNA_F

ClientSampleId :

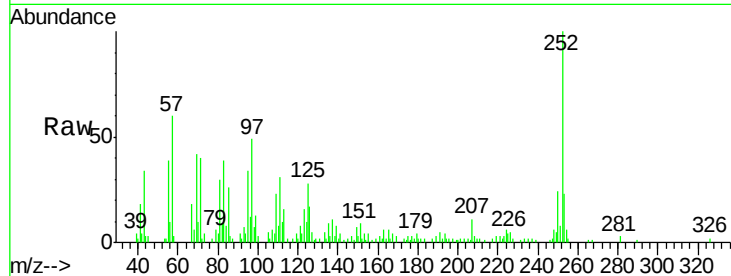
Tot Ion: 252 Resp: 28178

Ion Ratio Lower Upper

252 100

253 22.6 16.8 25.2

125 27.8 7.4 11.0



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

