

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051415\
 Data File : BF079252.D
 Acq On : 15 May 2015 1:23
 Operator : TP/IZ
 Sample : G2216-01
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TW-4

Quant Time: May 15 13:22:17 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 15 02:17:41 2015
 Response via : Initial Calibration

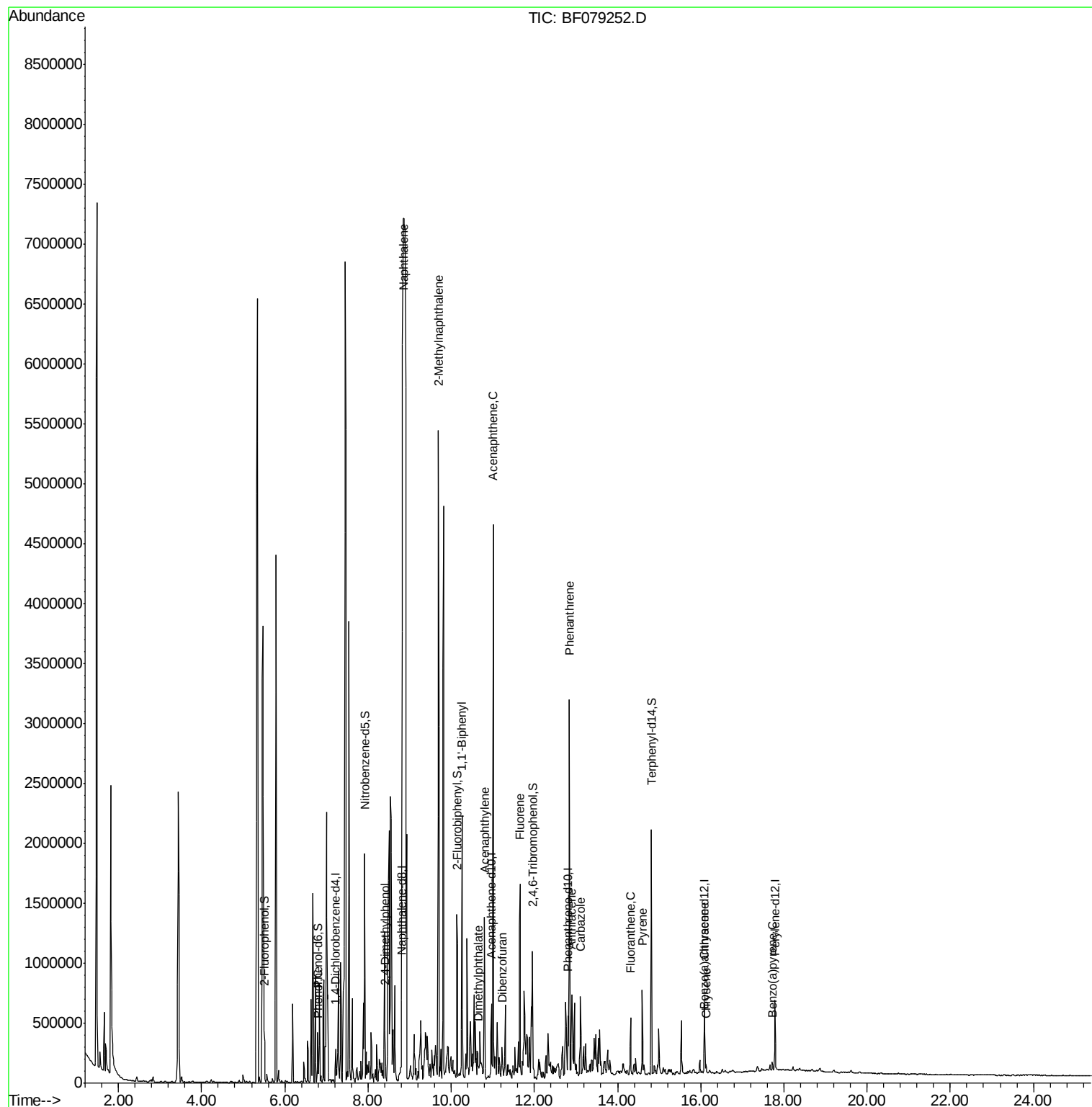
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.22	152	48012	20.00	ng	0.00
21) Naphthalene-d8	8.81	136	117721m	20.00	ng	0.01
38) Acenaphthene-d10	10.97	164	100663	20.00	ng	0.00
63) Phenanthrene-d10	12.81	188	192837	20.00	ng	0.00
75) Chrysene-d12	16.09	240	231371	20.00	ng	-0.15
86) Perylene-d12	17.78	264	249769	20.00	ng	-0.51
System Monitoring Compounds						
5) 2-Fluorophenol	5.51	112	170942m	61.29	ng	0.00
7) Phenol-d6	6.79	99	148449	40.26	ng	0.00
23) Nitrobenzene-d5	7.92	82	286248	139.75	ng	0.01
41) 2,4,6-Tribromophenol	11.95	330	158544	145.59	ng	0.00
44) 2-Fluorobiphenyl	10.14	172	611809	84.68	ng	-0.01
78) Terphenyl-d14	14.81	244	834348m	86.34	ng	-0.02
Target Compounds						Qvalue
10) Phenol	6.80	94	49331	11.53	ng	94
27) 2,4-Dimethylphenol	8.41	122	87049	51.77	ng	99
31) Naphthalene	8.86	128	15700772m	2799.06	ng	
37) 2-Methylnaphthalene	9.69	142	2265352	582.79	ng	# 97
45) 1,1'-Biphenyl	10.26	154	700969	87.59	ng	96
48) Acenaphthylene	10.80	152	665429	64.93	ng	98
49) Dimethylphthalate	10.65	163	34091	4.61	ng	# 99
51) Acenaphthene	11.02	154	1130334	184.94	ng	99
54) Dibenzofuran	11.22	168	73946	8.38	ng	96
57) Fluorene	11.66	166	625828m	86.37	ng	
70) Phenanthrene	12.85	178	1278807	118.54	ng	98
71) Anthracene	12.90	178	265568	25.09	ng	100
72) Carbazole	13.11	167	258719	25.65	ng	99
74) Fluoranthene	14.32	202	222295	19.77	ng	93
77) Pyrene	14.59	202	296962m	22.27	ng	
80) Benzo(a)anthracene	16.08	228	42459m	3.35	ng	
82) Chrysene	16.13	228	32301	2.65	ng	98
89) Benzo(a)pyrene	17.71	252	30199	2.40	ng	# 96

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

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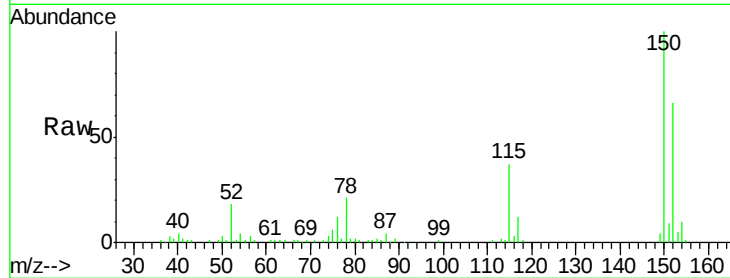




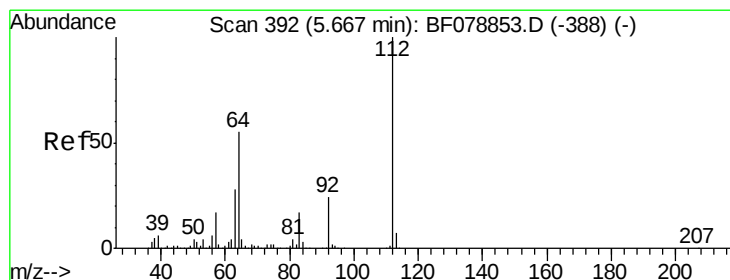
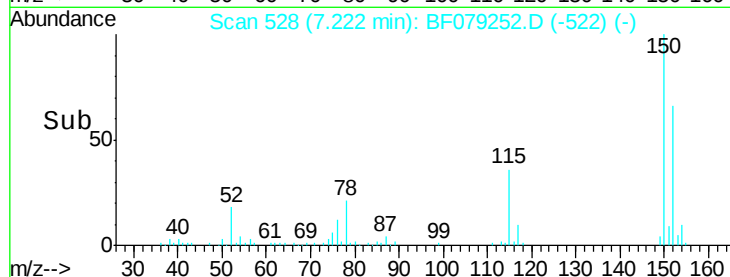
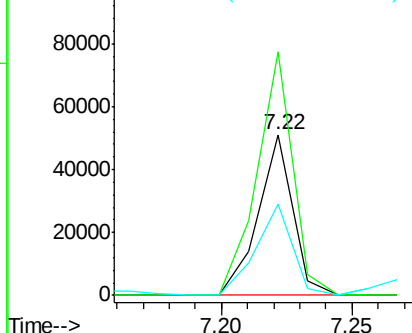
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 7.22 min Scan# 528
 Delta R.T. 0.00 min
 Lab File: BF079252.D
 Acq: 15 May 2015 1:23

Instrument :
 BNA_F
 ClientSampled :
 TW-4

Tot Ion:152	Resp:	48012
Ion Ratio	Lower	Upper
152	100	
150	151.7	123.8 185.8
115	56.6	49.4 74.0

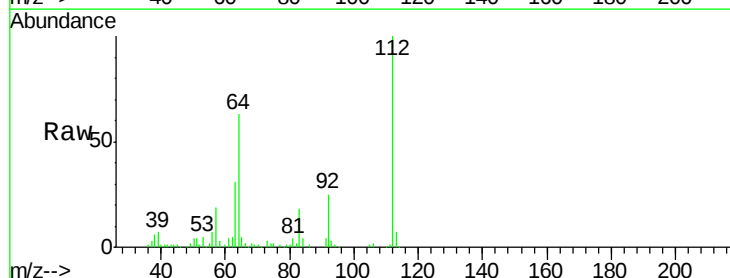


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

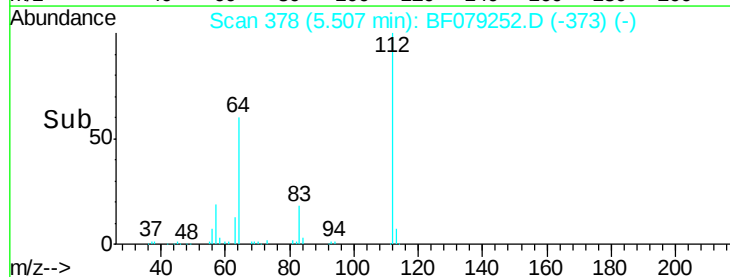
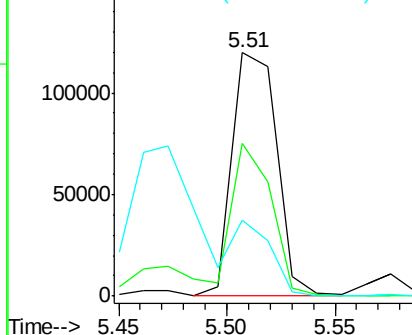


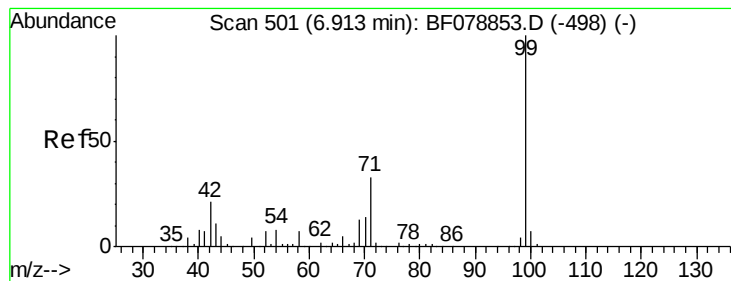
#5
 2-Fluorophenol
 Concen: 61.29 ng m
 RT: 5.51 min Scan# 378
 Delta R.T. 0.00 min
 Lab File: BF079252.D
 Acq: 15 May 2015 1:23

Tgt Ion:112	Resp:	170942
Ion Ratio	Lower	Upper
112	100	
64	62.9	44.2 66.2
63	30.9	22.7 34.1



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: 40.26 ng

RT: 6.79 min Scan# 490

Delta R.T. 0.00 min

Lab File: BF079252.D

Acq: 15 May 2015 1:23

Instrument :

BNA_F

ClientSampleId :

TW-4

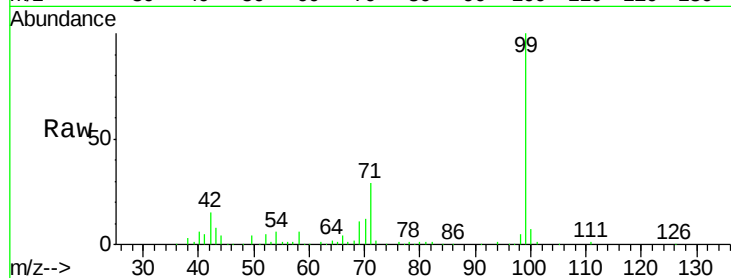
Tot Ion: 99 Resp: 148449

Ion Ratio Lower Upper

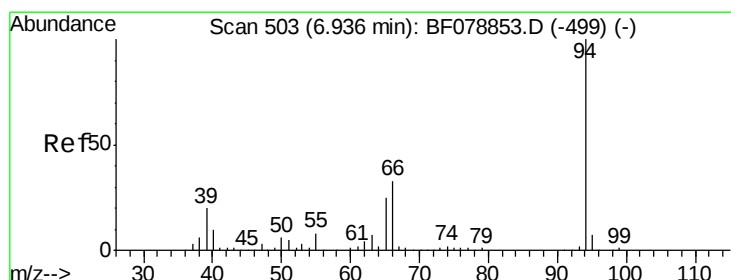
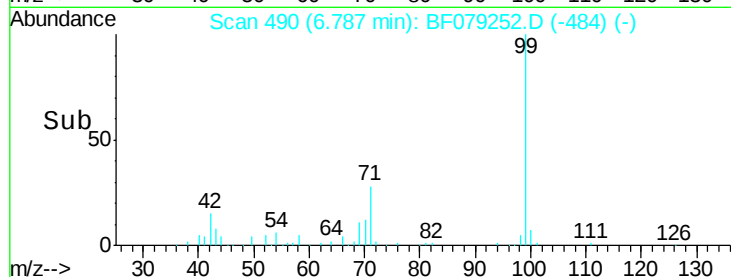
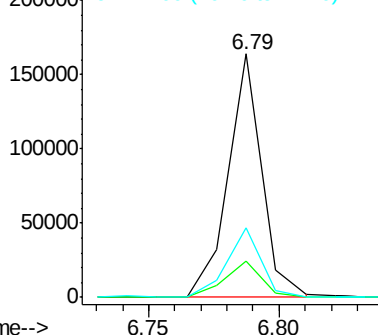
99 100

42 14.9 17.1 25.7#

71 28.5 26.3 39.5



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



#10

Phenol

Concen: 11.53 ng

RT: 6.80 min Scan# 491

Delta R.T. 0.00 min

Lab File: BF079252.D

Acq: 15 May 2015 1:23

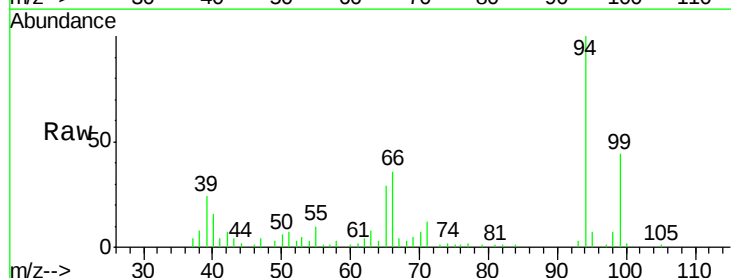
Tgt Ion: 94 Resp: 49331

Ion Ratio Lower Upper

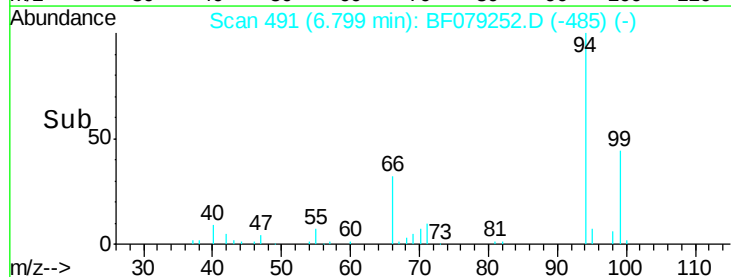
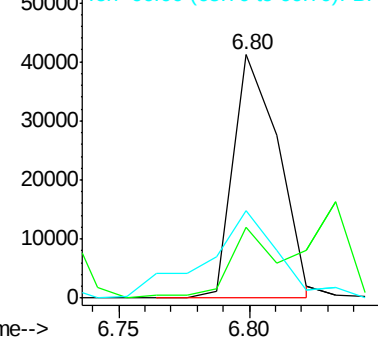
94 100

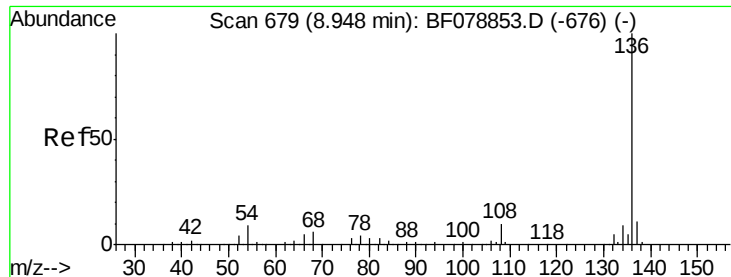
65 29.1 5.1 45.1

66 36.0 13.1 53.1



Abundance Ion 94.00 (93.70 to 94.70): BF0
Ion 65.00 (64.70 to 65.70): BF0
Ion 66.00 (65.70 to 66.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng/mL

RT: 8.81 min Scan# 667

Delta R.T. 0.01 min

Lab File: BF079252.D

Acq: 15 May 2015 1:23

Instrument :

BNA_F

ClientSampleID :

TW-4

Tot Ion:136 Resp: 117721

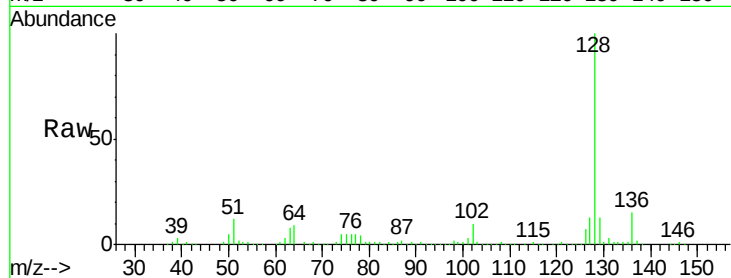
Ion Ratio Lower Upper

136 100

137 11.8 8.8 13.2

54 8.9 6.9 10.3

68 6.6 4.9 7.3

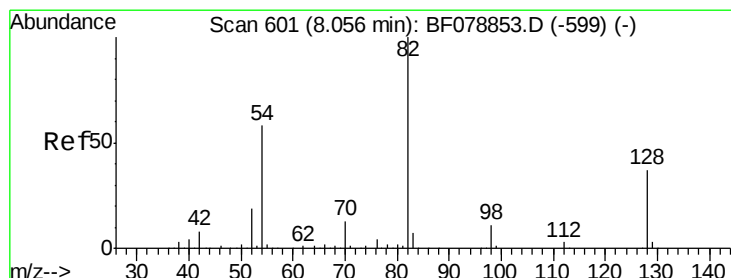
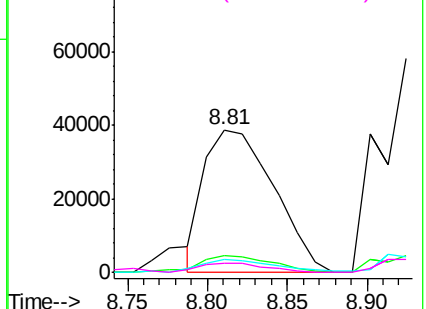
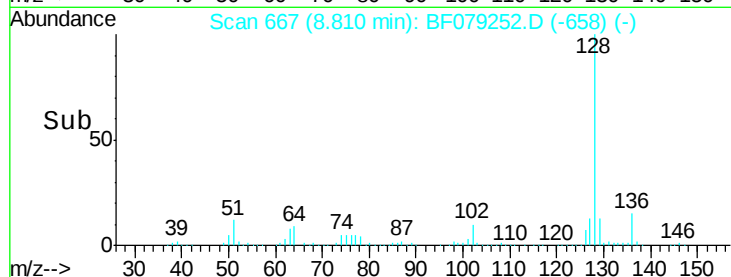


Abundance Ion 136.00 (135.70 to 136.70): E

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: 139.75 ng/mL

RT: 7.92 min Scan# 589

Delta R.T. 0.01 min

Lab File: BF079252.D

Acq: 15 May 2015 1:23

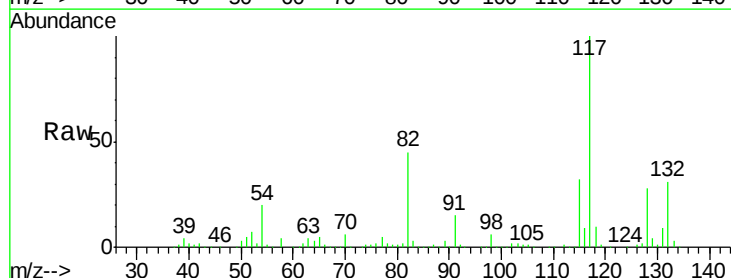
Tgt Ion: 82 Resp: 286248

Ion Ratio Lower Upper

82 100

128 62.5 29.7 44.5#

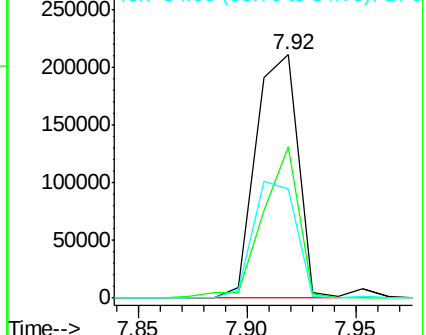
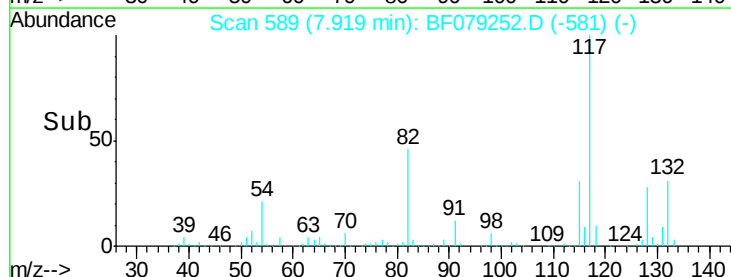
54 45.0 46.2 69.4#

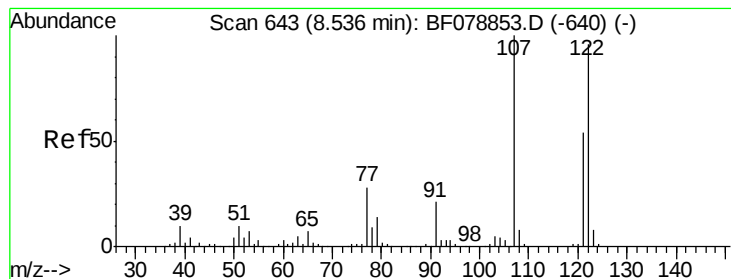


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#27

2,4-Dimethylphenol

Concen: 51.77 ng

RT: 8.41 min Scan# 632

Delta R.T. 0.01 min

Lab File: BF079252.D

Acq: 15 May 2015 1:23

Instrument :

BNA_F

ClientSampleId :

TW-4

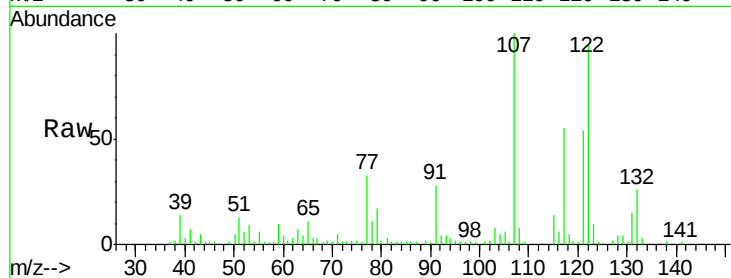
Tot Ion:122 Resp: 87049

Ion Ratio Lower Upper

122 100

107 105.7 83.6 125.4

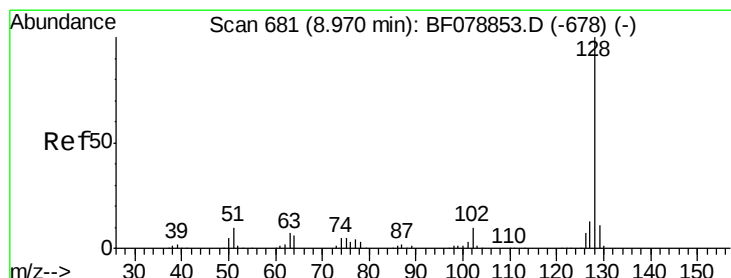
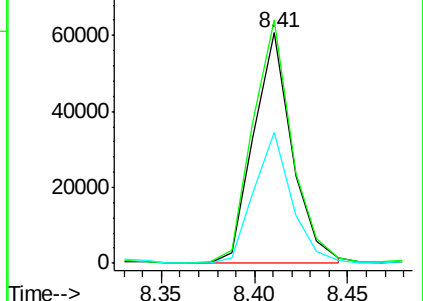
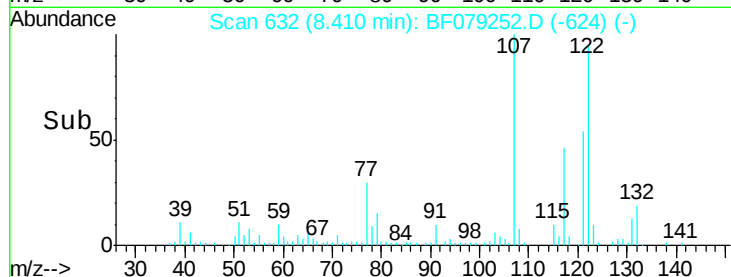
121 57.0 44.9 67.3



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 107.00 (106.70 to 107.70): E

Ion 121.00 (120.70 to 121.70): E



#31

Naphthalene

Concen: 2799.06 ng m

RT: 8.86 min Scan# 671

Delta R.T. 0.03 min

Lab File: BF079252.D

Acq: 15 May 2015 1:23

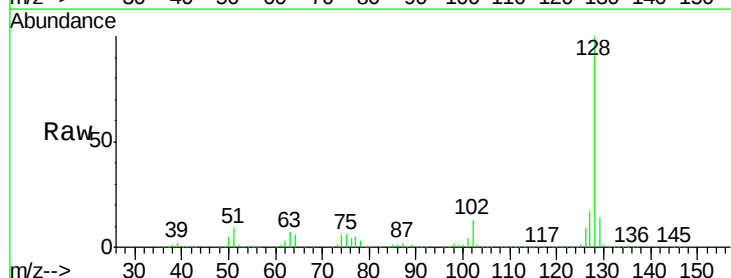
Tgt Ion:128 Resp:15700772

Ion Ratio Lower Upper

128 100

129 14.0 9.2 13.8#

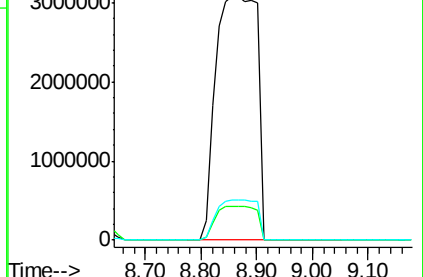
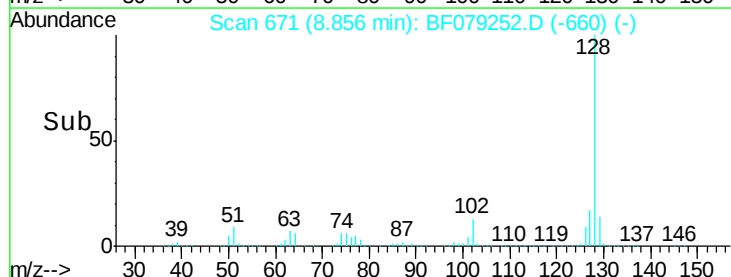
127 16.7 10.3 15.5#

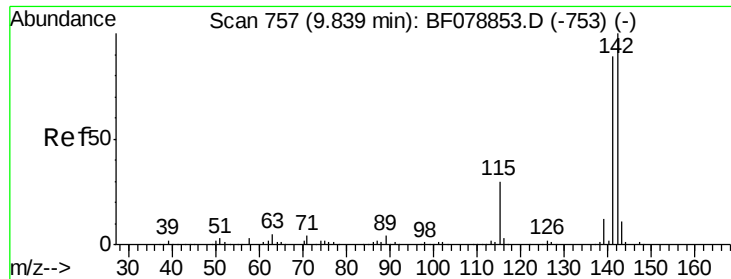


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

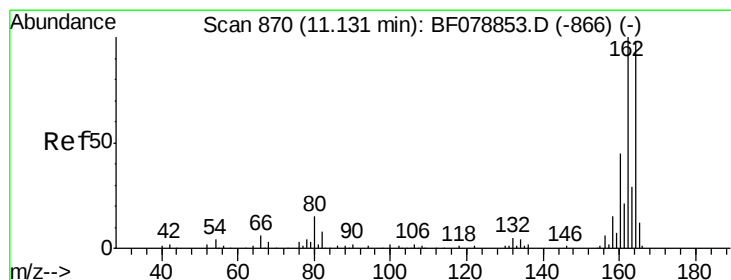
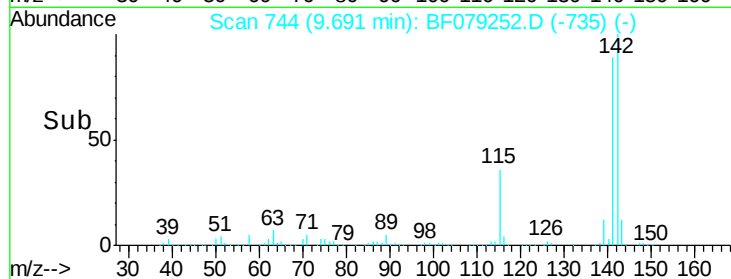
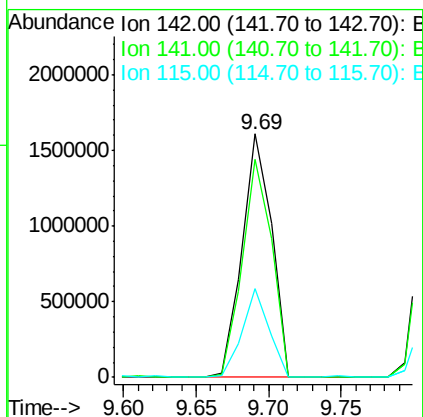
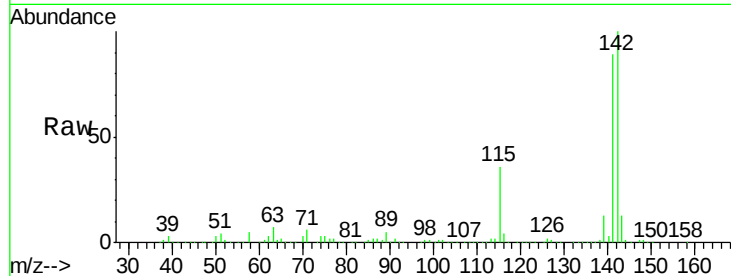




#37
2-Methylnaphthalene
Concen: 582.79 ng
RT: 9.69 min Scan# 744
Delta R.T. 0.01 min
Lab File: BF079252.D
Acq: 15 May 2015 1:23

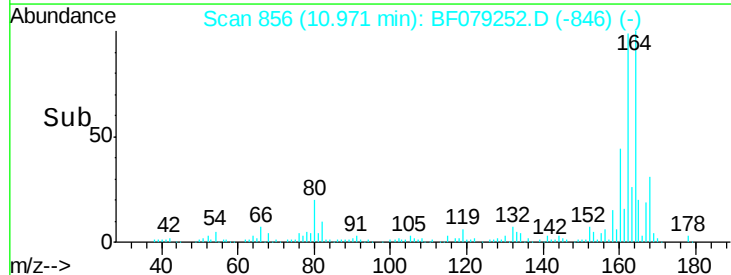
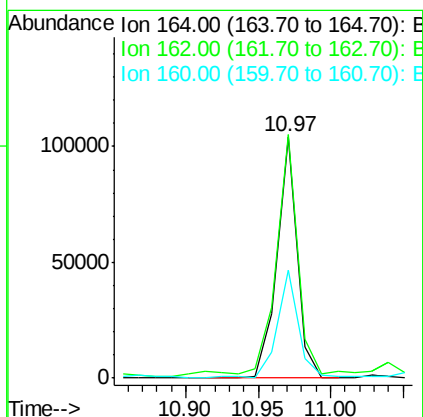
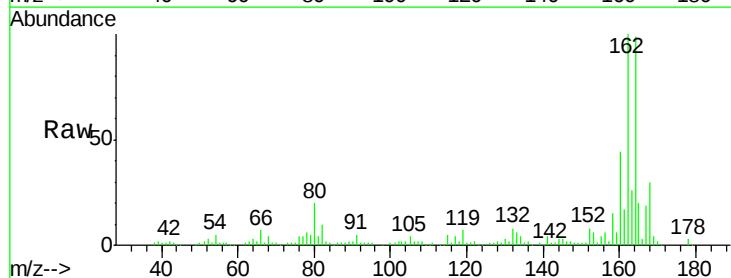
Instrument :
BNA_F
ClientSampleId :
TW-4

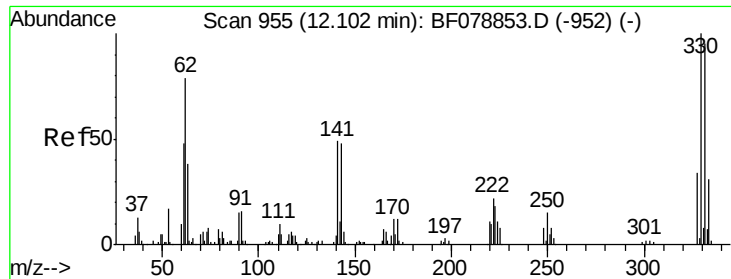
Tot Ion:142 Resp: 2265352
Ion Ratio Lower Upper
142 100
141 89.4 71.6 107.4
115 36.4 24.2 36.4#



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.97 min Scan# 856
Delta R.T. 0.00 min
Lab File: BF079252.D
Acq: 15 May 2015 1:23

Tgt Ion:164 Resp: 100663
Ion Ratio Lower Upper
164 100
162 100.9 81.4 122.0
160 44.8 36.6 54.8

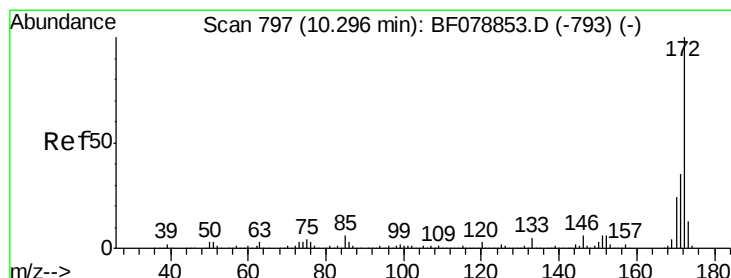
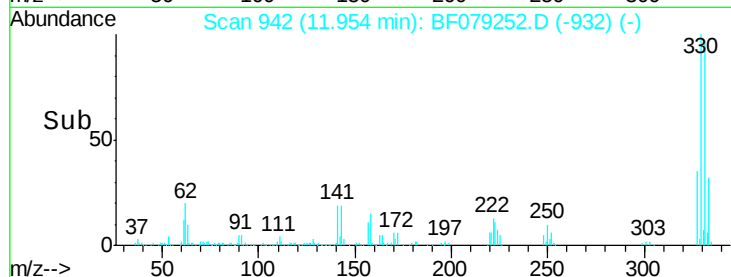
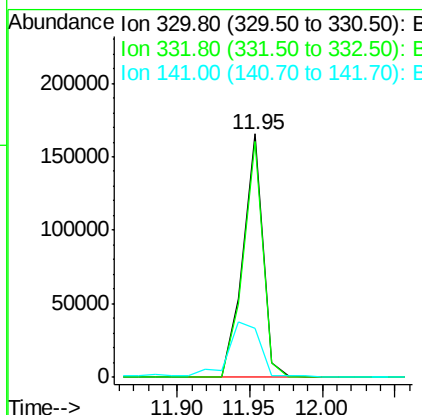
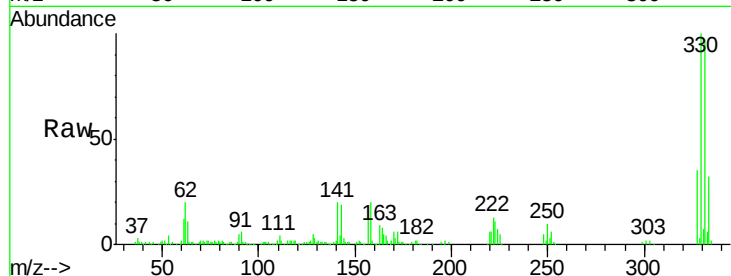




#41
 2,4,6-Tribromophenol
 Concen: 145.59 ng
 RT: 11.95 min Scan# 942
 Delta R.T. 0.00 min
 Lab File: BF079252.D
 Acq: 15 May 2015 1:23

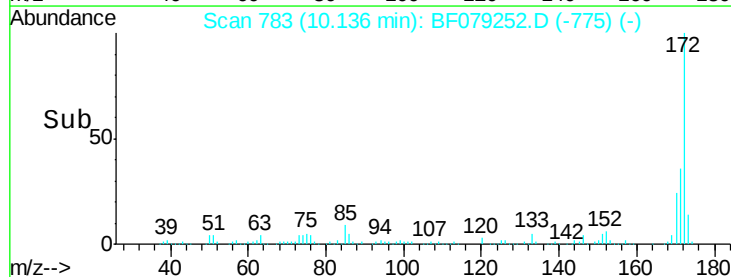
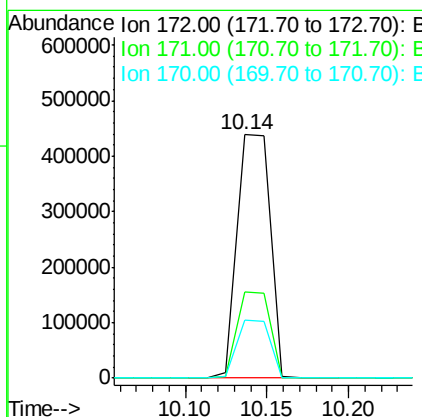
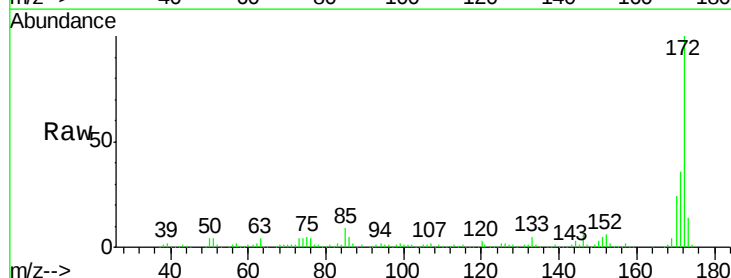
Instrument :
 BNA_F
 ClientSampleId :
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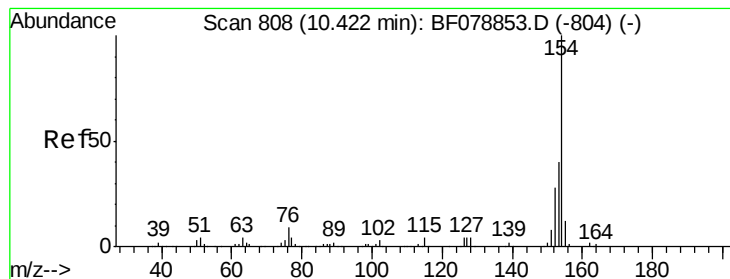
Tot Ion:330 Resp: 158544
 Ion Ratio Lower Upper
 330 100
 332 96.3 76.9 115.3
 141 36.3 27.8 41.8



#44
 2-Fluorobiphenyl
 Concen: 84.68 ng
 RT: 10.14 min Scan# 783
 Delta R.T. -0.01 min
 Lab File: BF079252.D
 Acq: 15 May 2015 1:23

Tgt Ion:172 Resp: 611809
 Ion Ratio Lower Upper
 172 100
 171 35.6 28.3 42.5
 170 23.6 19.4 29.2





#45

1,1'-Biphenyl

Concen: 87.59 ng

RT: 10.26 min Scan# 794

Delta R.T. 0.00 min

Lab File: BF079252.D

Acq: 15 May 2015 1:23

Instrument :

BNA_F

ClientSampled :

TW-4

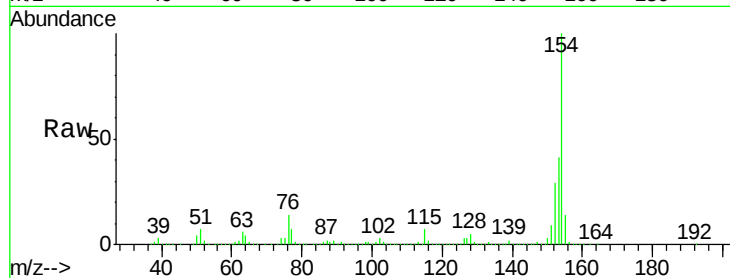
Tot Ion:154 Resp: 700969

Ion Ratio Lower Upper

154 100

153 40.7 19.7 59.7

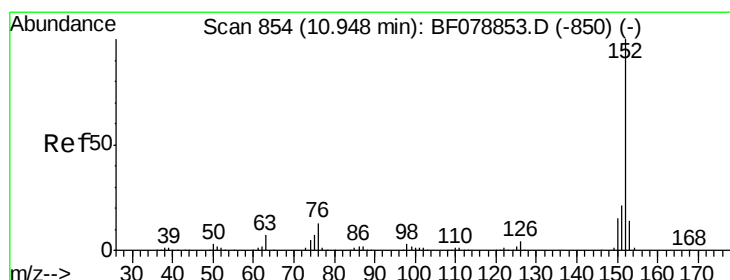
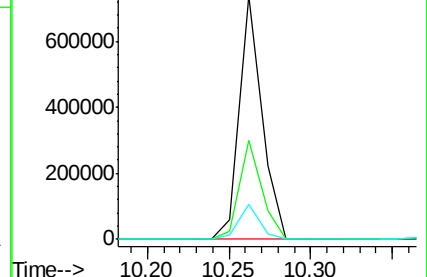
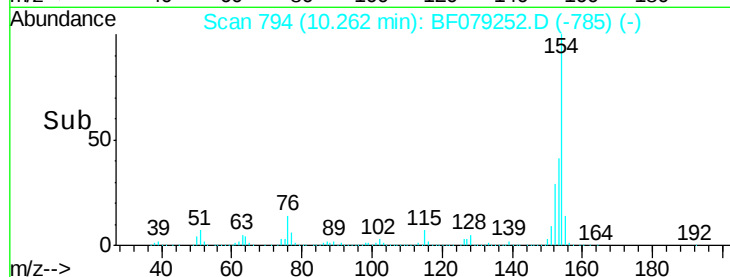
76 14.1 0.0 29.1



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0



#48

Acenaphthylene

Concen: 64.93 ng

RT: 10.80 min Scan# 841

Delta R.T. 0.00 min

Lab File: BF079252.D

Acq: 15 May 2015 1:23

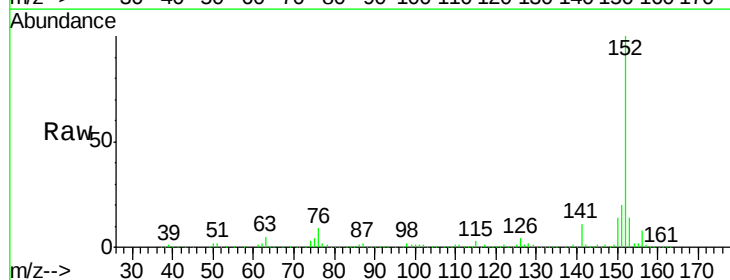
Tgt Ion:152 Resp: 665429

Ion Ratio Lower Upper

152 100

151 19.7 16.6 24.8

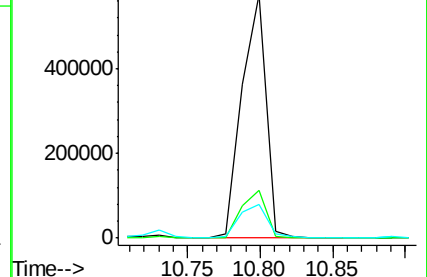
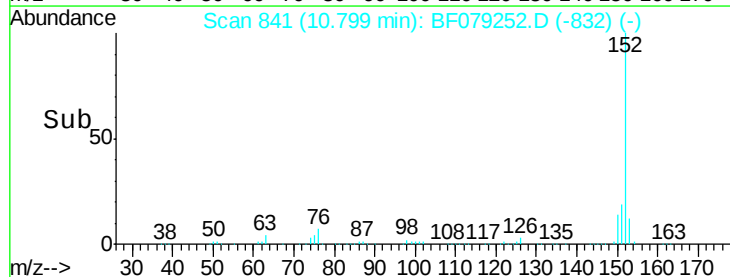
153 14.0 11.0 16.6

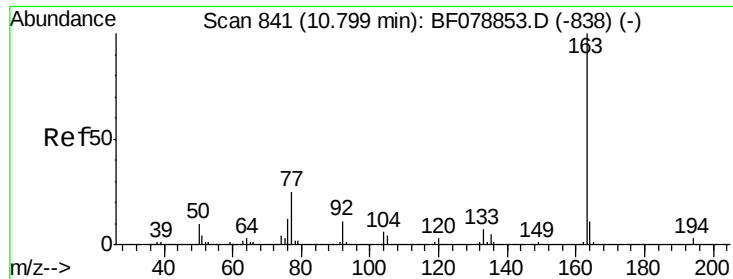


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

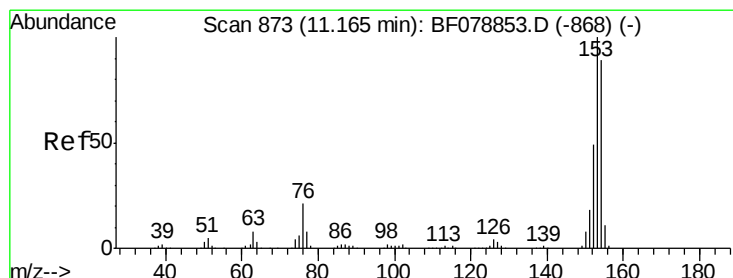
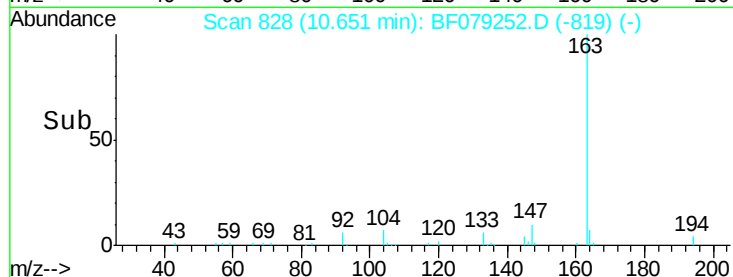
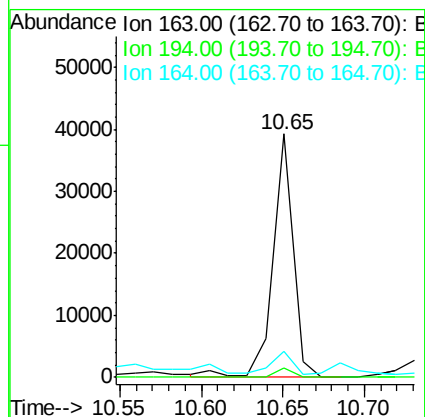
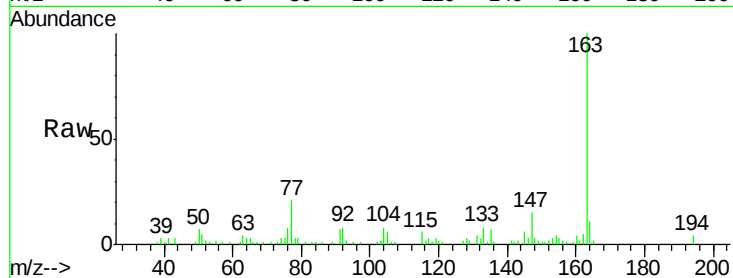




#49
Dimethylphthalate
Concen: 4.61 ng
RT: 10.65 min Scan# 828
Delta R.T. 0.00 min
Lab File: BF079252.D
Acq: 15 May 2015 1:23

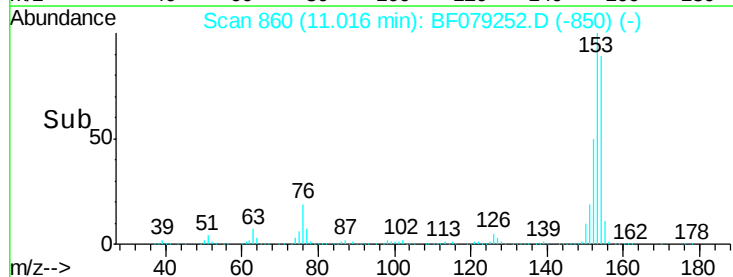
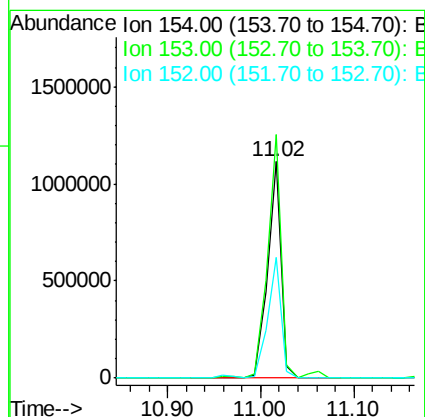
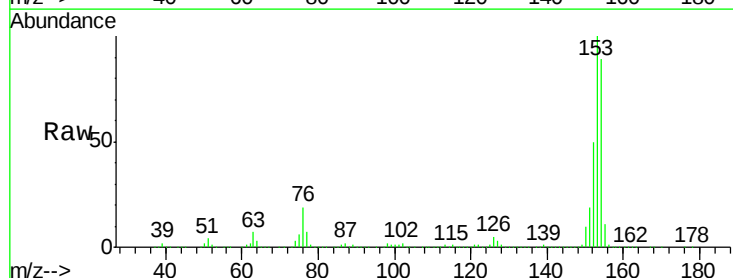
Instrument :
BNA_F
ClientSampled :
TW-4

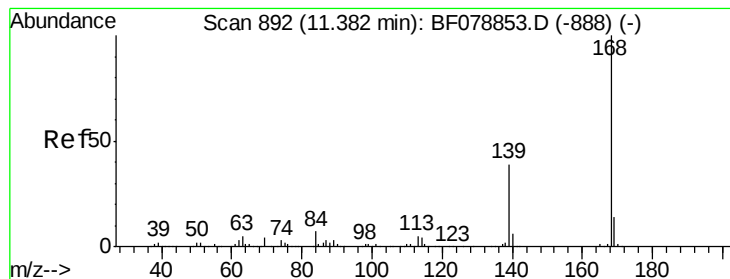
Tot Ion:163 Resp: 34091
Ion Ratio Lower Upper
163 100
194 3.9 2.4 3.6#
164 10.9 8.6 12.8



#51
Acenaphthene
Concen: 184.94 ng
RT: 11.02 min Scan# 860
Delta R.T. 0.00 min
Lab File: BF079252.D
Acq: 15 May 2015 1:23

Tgt Ion:154 Resp: 1130334
Ion Ratio Lower Upper
154 100
153 112.4 90.2 135.2
152 56.0 43.8 65.8





#54

Dibenzenofuran

Concen: 8.38 ng

RT: 11.22 min Scan# 878

Delta R.T. 0.00 min

Lab File: BF079252.D

Acq: 15 May 2015 1:23

Instrument :

BNA_F

ClientSampleId :

TW-4

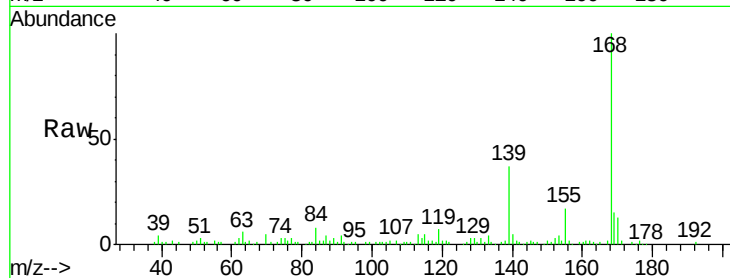
Tot Ion:168 Resp: 73946

Ion Ratio Lower Upper

168 100

139 37.1 31.5 47.3

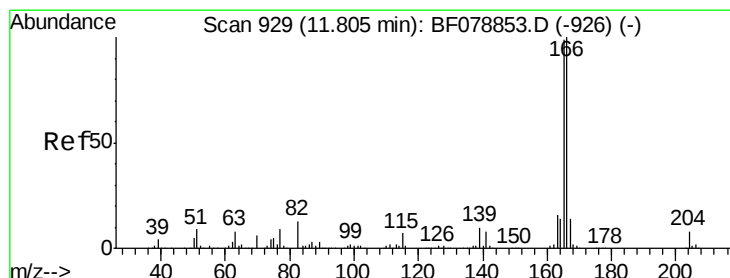
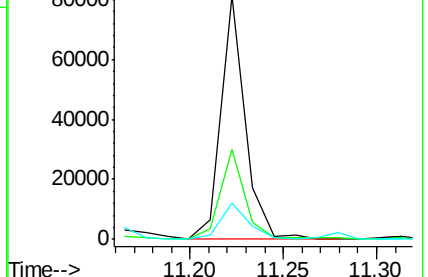
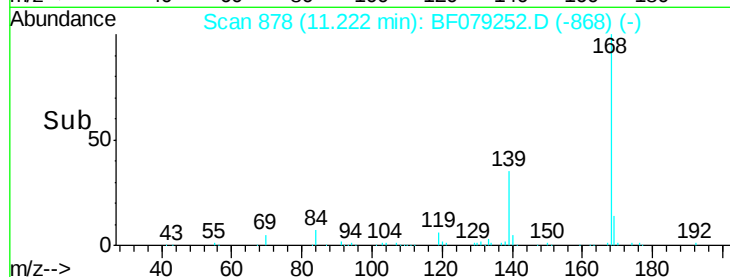
169 14.8 11.0 16.4



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



#57

Fluorene

Concen: 86.37 ng m

RT: 11.66 min Scan# 916

Delta R.T. 0.00 min

Lab File: BF079252.D

Acq: 15 May 2015 1:23

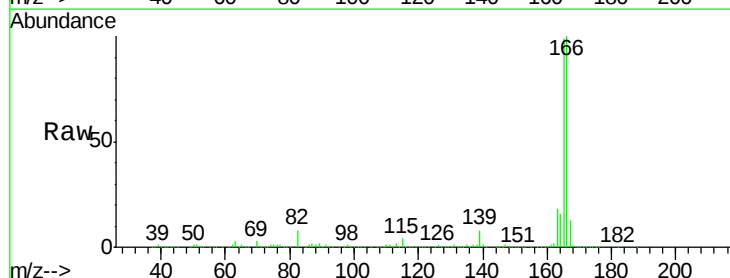
Tgt Ion:166 Resp: 625828

Ion Ratio Lower Upper

166 100

165 99.4 79.5 119.3

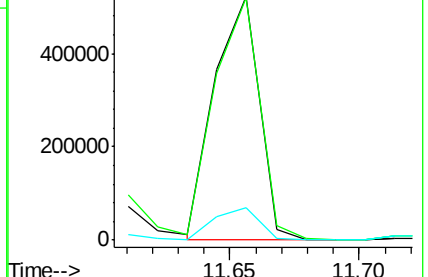
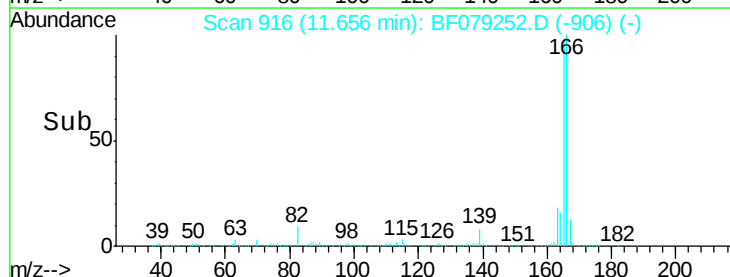
167 13.3 11.0 16.6

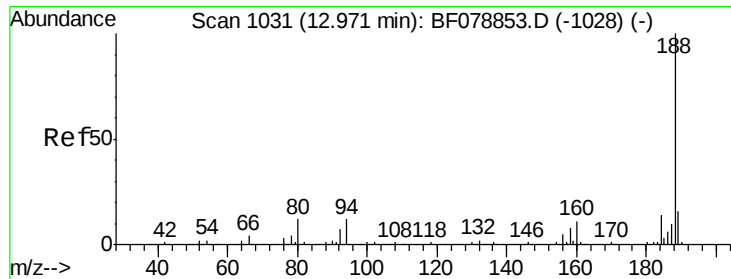


Abundance Ion 166.00 (165.70 to 166.70): E

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: 12.81 min Scan# 1017

Delta R.T. 0.00 min

Lab File: BF079252.D

Acq: 15 May 2015 1:23

Instrument :

BNA_F

ClientSampleId :

TW-4

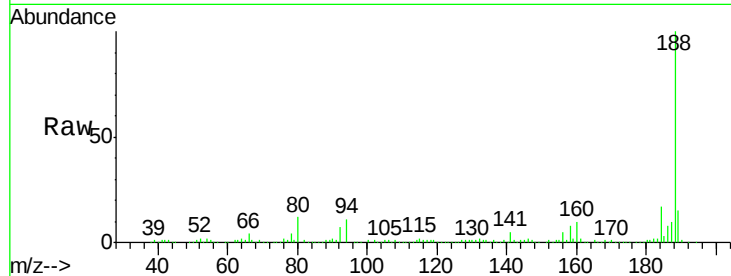
Tot Ion:188 Resp: 192837

Ion Ratio Lower Upper

188 100

94 11.3 9.4 14.0

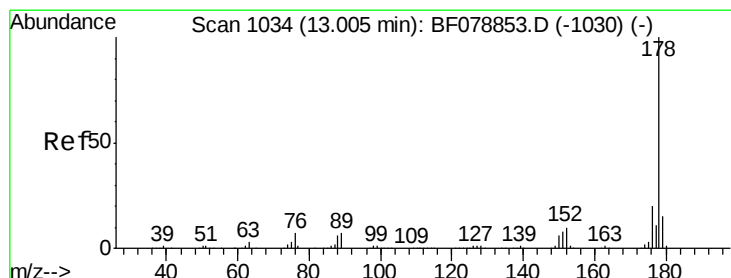
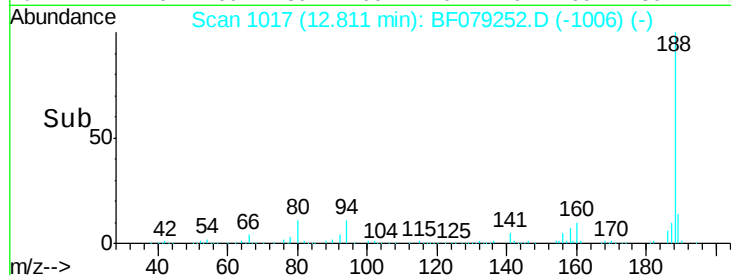
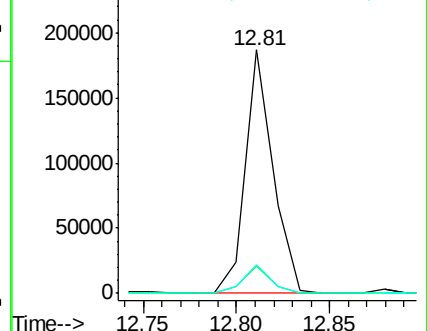
80 11.6 9.8 14.6



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: 118.54 ng

RT: 12.85 min Scan# 1020

Delta R.T. 0.00 min

Lab File: BF079252.D

Acq: 15 May 2015 1:23

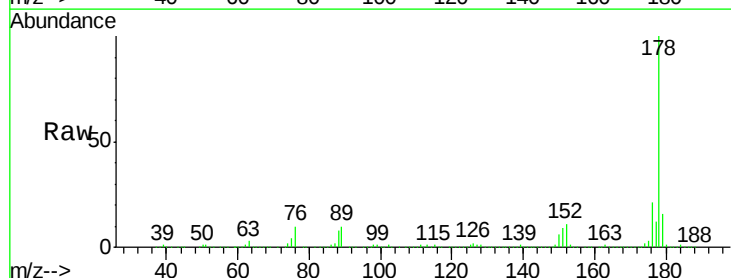
Tgt Ion:178 Resp: 1278807

Ion Ratio Lower Upper

178 100

176 20.8 15.9 23.9

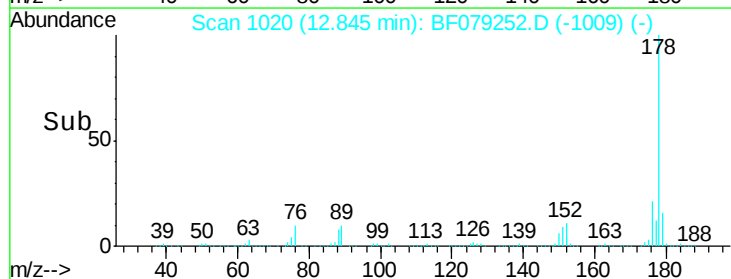
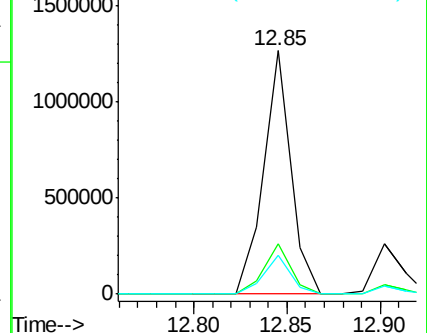
179 16.2 12.2 18.4

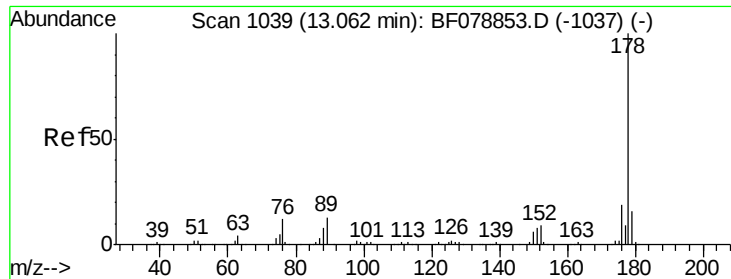


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

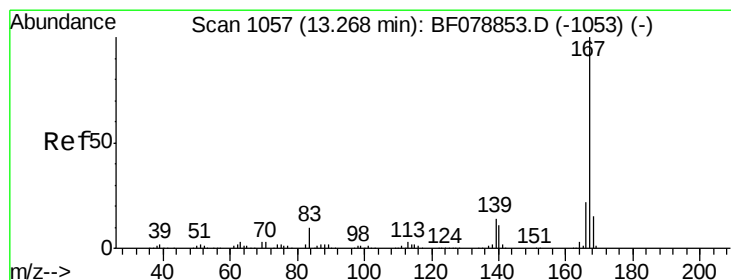
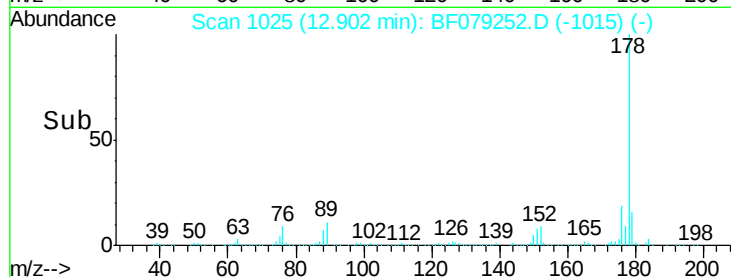
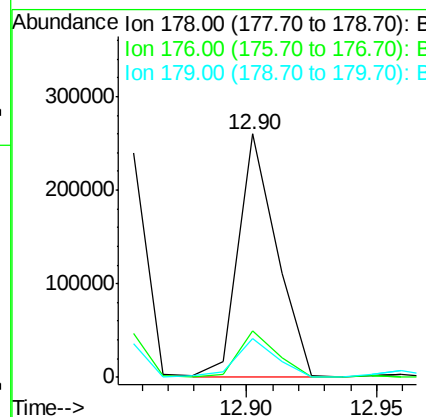
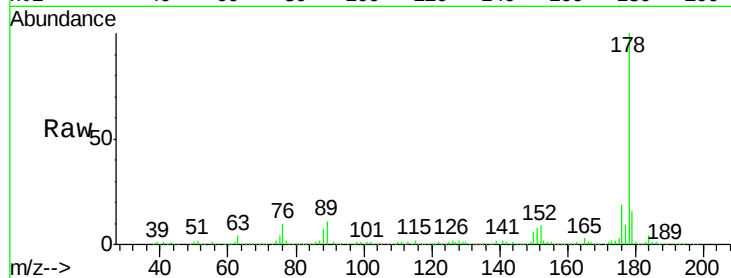




#71
 Anthracene
 Concen: 25.09 ng
 RT: 12.90 min Scan# 1025
 Delta R.T. -0.01 min
 Lab File: BF079252.D
 Acq: 15 May 2015 1:23

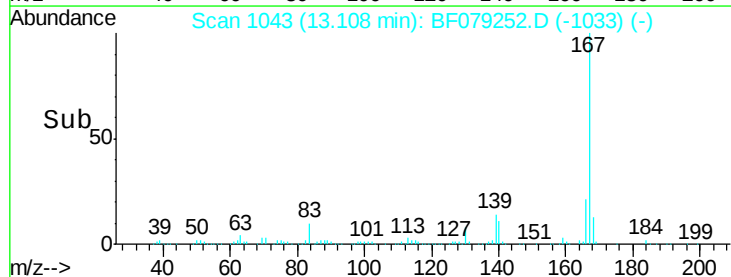
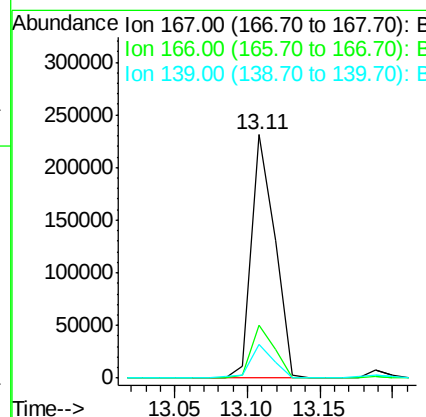
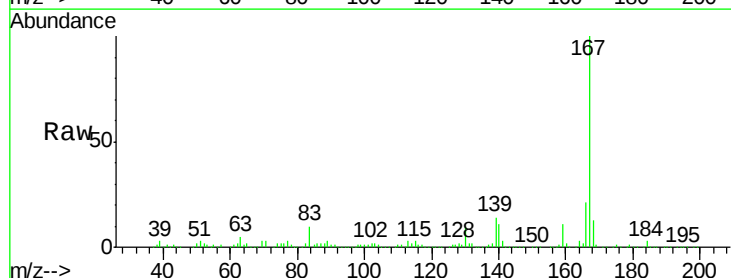
Instrument :
 BNA_F
 ClientSampleId :
 TW-4

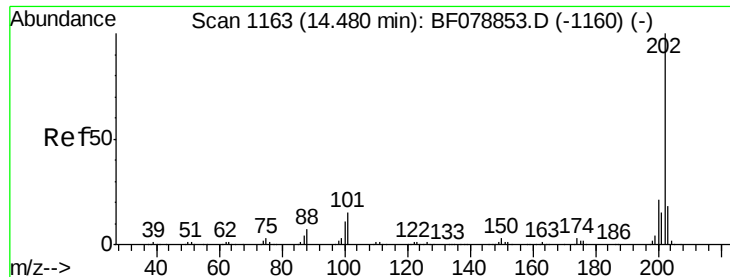
Tot Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.3	22.9
179	15.8	12.6	19.0



#72
 Carbazole
 Concen: 25.65 ng
 RT: 13.11 min Scan# 1043
 Delta R.T. -0.01 min
 Lab File: BF079252.D
 Acq: 15 May 2015 1:23

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.5	17.5	26.3
139	14.1	11.0	16.4

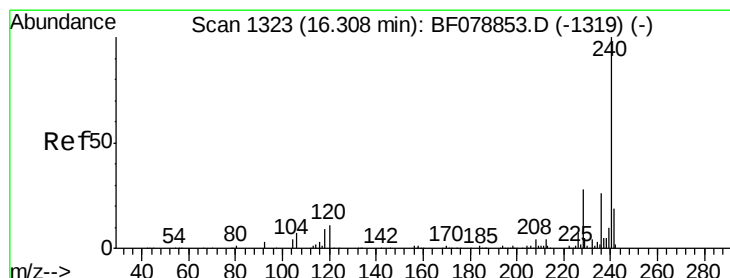
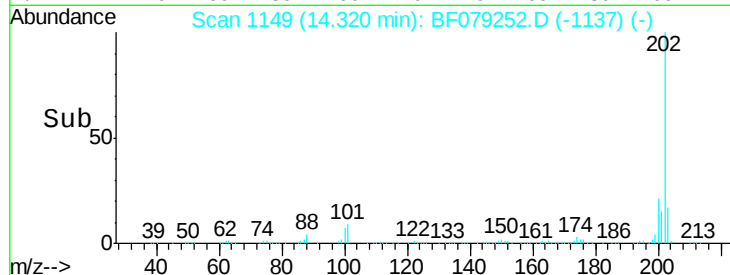
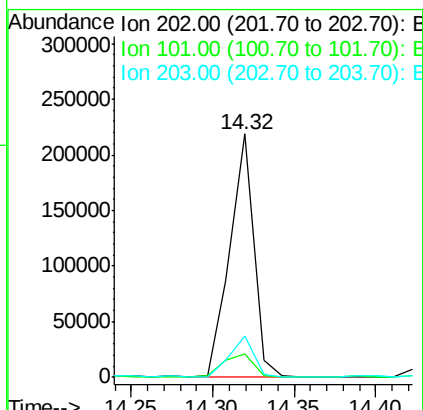
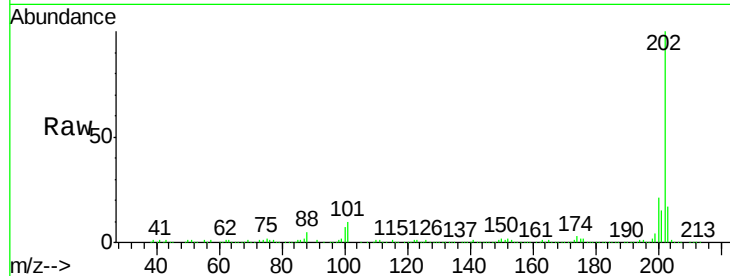




#74
Fluoranthene
Concen: 19.77 ng
RT: 14.32 min Scan# 1149
Delta R.T. -0.01 min
Lab File: BF079252.D
Acq: 15 May 2015 1:23

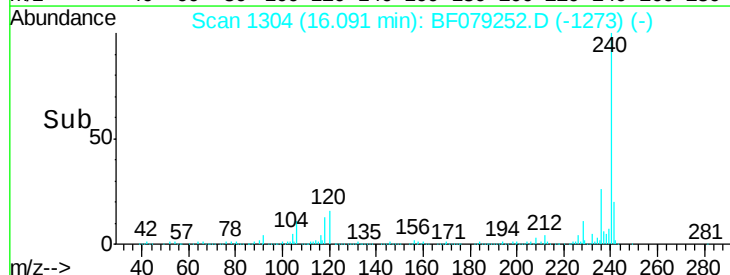
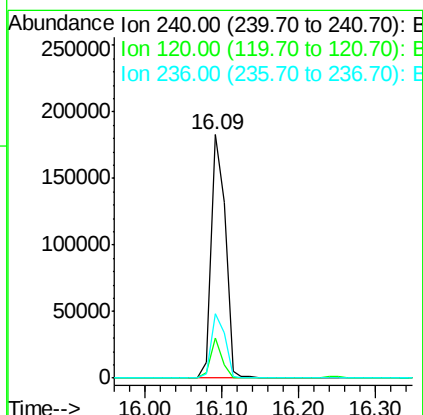
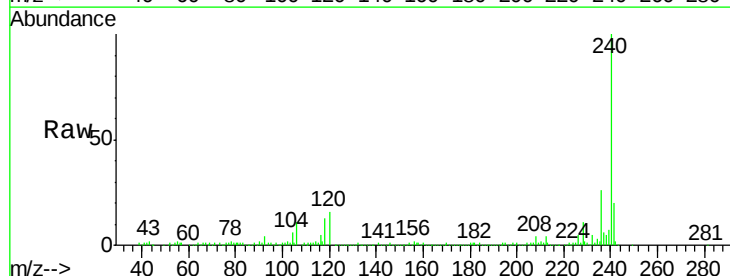
Instrument :
BNA_F
ClientSampleId :
TW-4

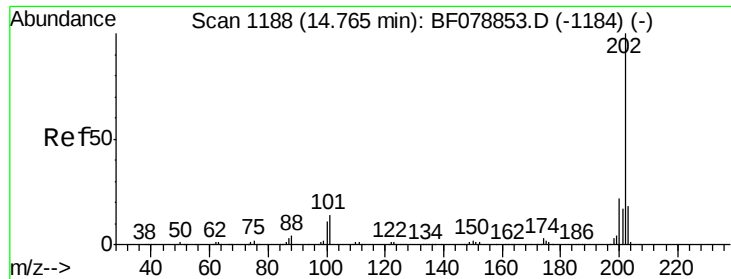
Tot Ion:	202	Resp:	222295
Ion	Ratio	Lower	Upper
202	100		
101	9.6	0.0	34.7
203	17.1	0.0	37.9



#75
Chrysene-d12
Concen: 20.00 ng
RT: 16.09 min Scan# 1304
Delta R.T. -0.15 min
Lab File: BF079252.D
Acq: 15 May 2015 1:23

Tgt Ion:	240	Resp:	231371
Ion	Ratio	Lower	Upper
240	100		
120	16.3	8.6	12.8#
236	26.2	21.0	31.6

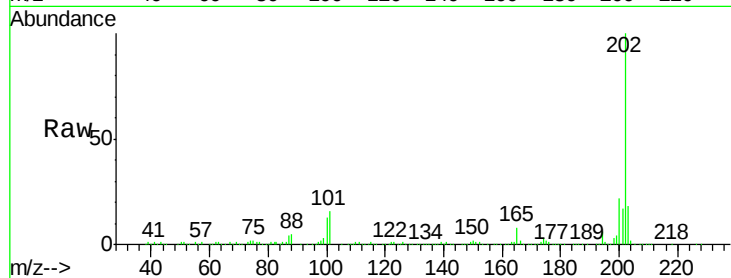




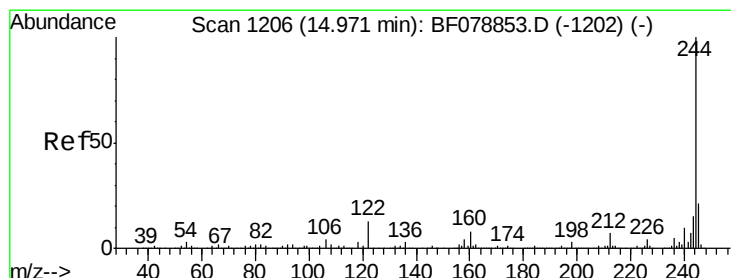
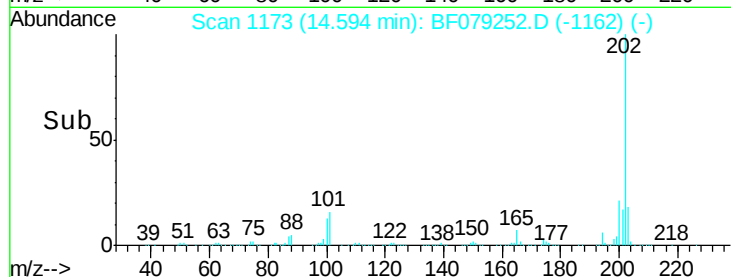
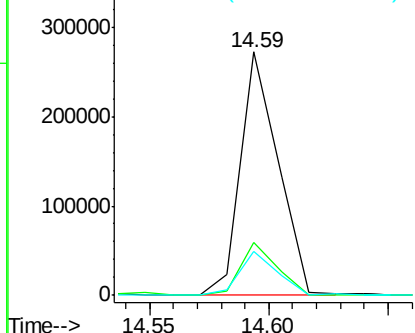
#77
Pvrene
Concen: 22.27 ng m
RT: 14.59 min Scan# 1173
Delta R.T. -0.02 min
Lab File: BF079252.D
Acq: 15 May 2015 1:23

Instrument :
BNA_F
ClientSampleId :
TW-4

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.8	17.5	26.3
203	18.0	14.7	22.1

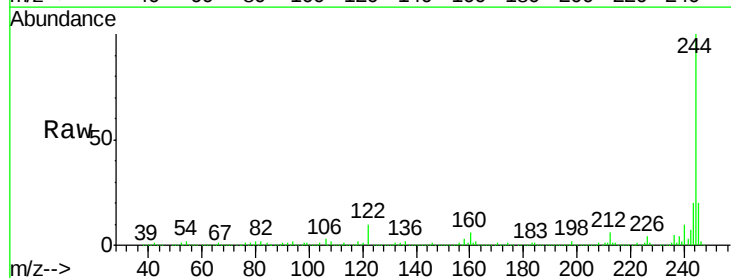


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

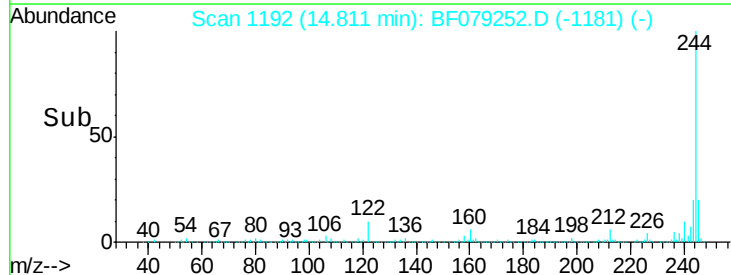
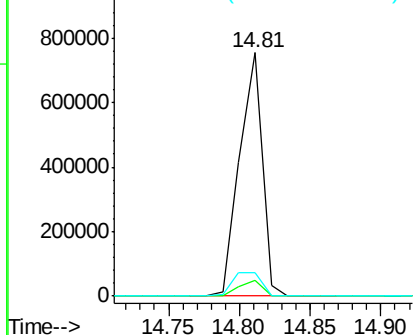


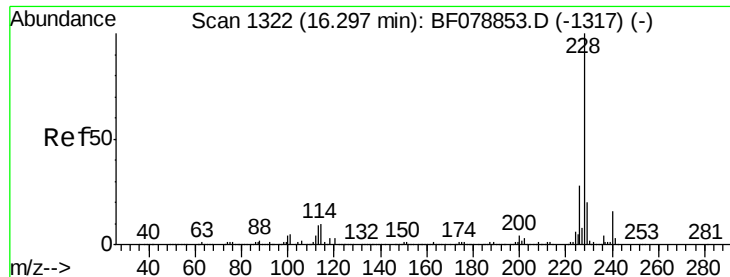
#78
Terphenyl-d14
Concen: 86.34 ng m
RT: 14.81 min Scan# 1192
Delta R.T. -0.02 min
Lab File: BF079252.D
Acq: 15 May 2015 1:23

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.6	8.4
122	9.6	10.5	15.7#



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: 3.35 ng

RT: 16.08 min Scan# 1303

Delta R.T. -0.15 min

Lab File: BF079252.D

Acq: 15 May 2015 1:23

Instrument :

BNA_F

ClientSampleId :

TW-4

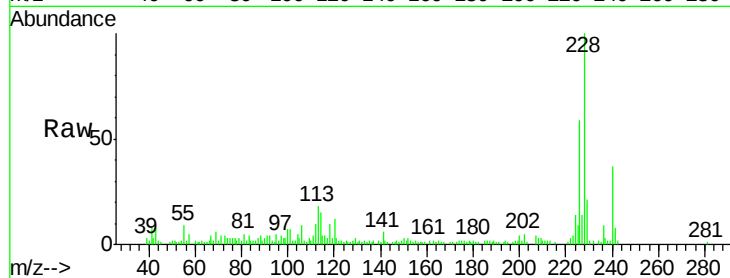
Tot Ion:228 Resp: 42459

Ion Ratio Lower Upper

228 100

226 58.7 22.3 33.5#

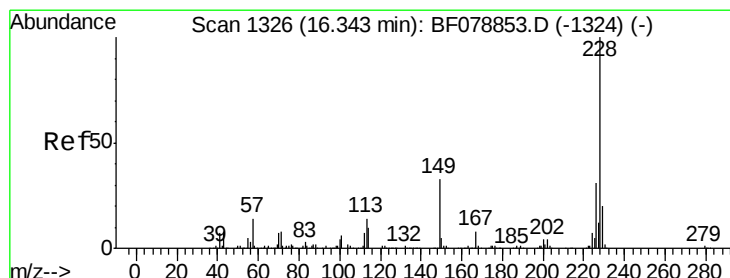
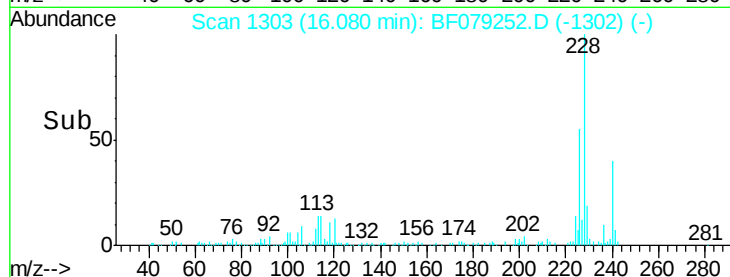
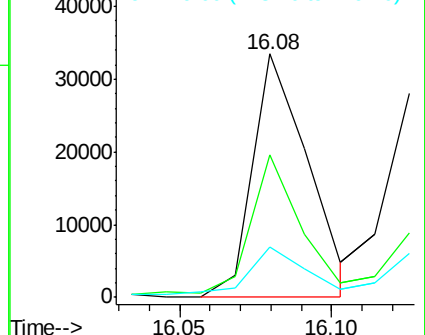
229 20.7 16.1 24.1



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: 2.65 ng

RT: 16.13 min Scan# 1307

Delta R.T. -0.16 min

Lab File: BF079252.D

Acq: 15 May 2015 1:23

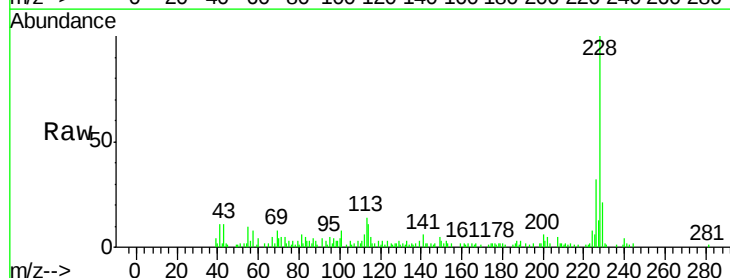
Tgt Ion:228 Resp: 32301

Ion Ratio Lower Upper

228 100

226 31.6 24.8 37.2

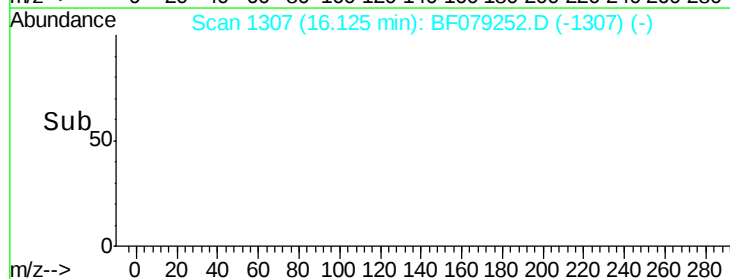
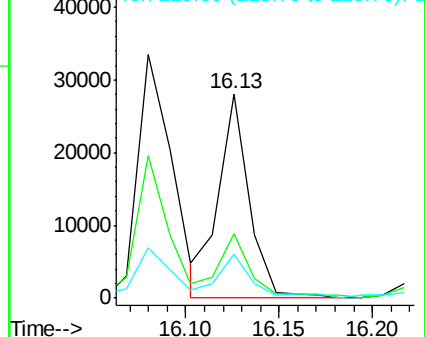
229 21.3 16.1 24.1

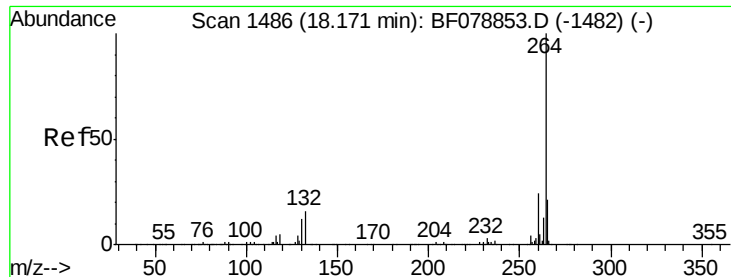


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

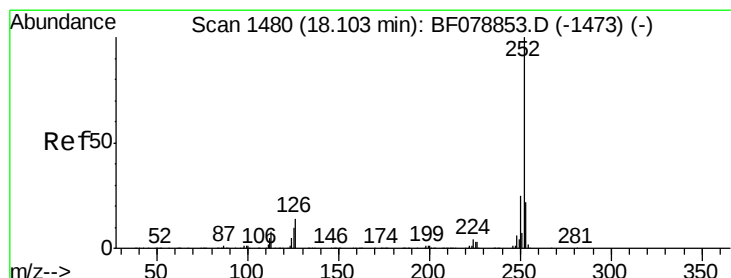
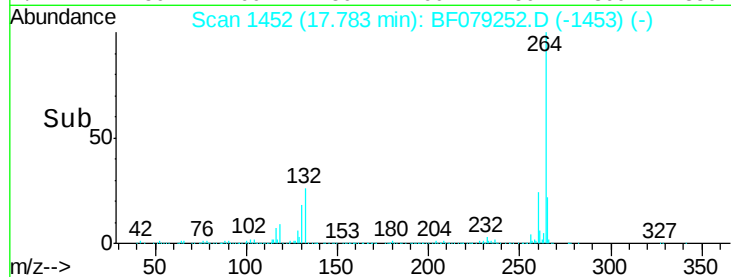
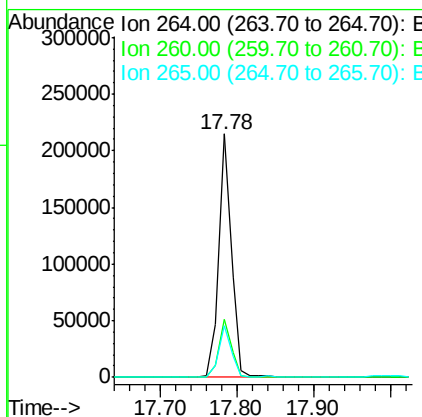
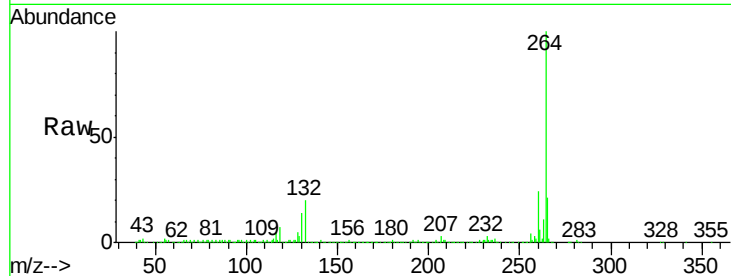




#86
Pervlene-d12
Concen: 20.00 ng
RT: 17.78 min Scan# 1452
Delta R.T. -0.51 min
Lab File: BF079252.D
Acq: 15 May 2015 1:23

Instrument :
BNA_F
ClientSampled :
TW-4

Tot Ion:264 Resp: 249769
Ion Ratio Lower Upper
264 100
260 23.9 19.2 28.8
265 21.3 17.2 25.8



#89
Benzo(a)pyrene
Concen: 2.40 ng
RT: 17.71 min Scan# 1446
Delta R.T. -0.50 min
Lab File: BF079252.D
Acq: 15 May 2015 1:23

Tgt Ion:252 Resp: 30199
Ion Ratio Lower Upper
252 100
253 22.9 18.0 27.0
125 14.7 8.2 12.2#

