

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050715\
 Data File : BF079034.D
 Acq On : 8 May 2015 11:23
 Operator : TP/IZ
 Sample : G2130-03
 Misc :
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 08 12:48:08 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 30 19:07:47 2015
 Response via : Initial Calibration

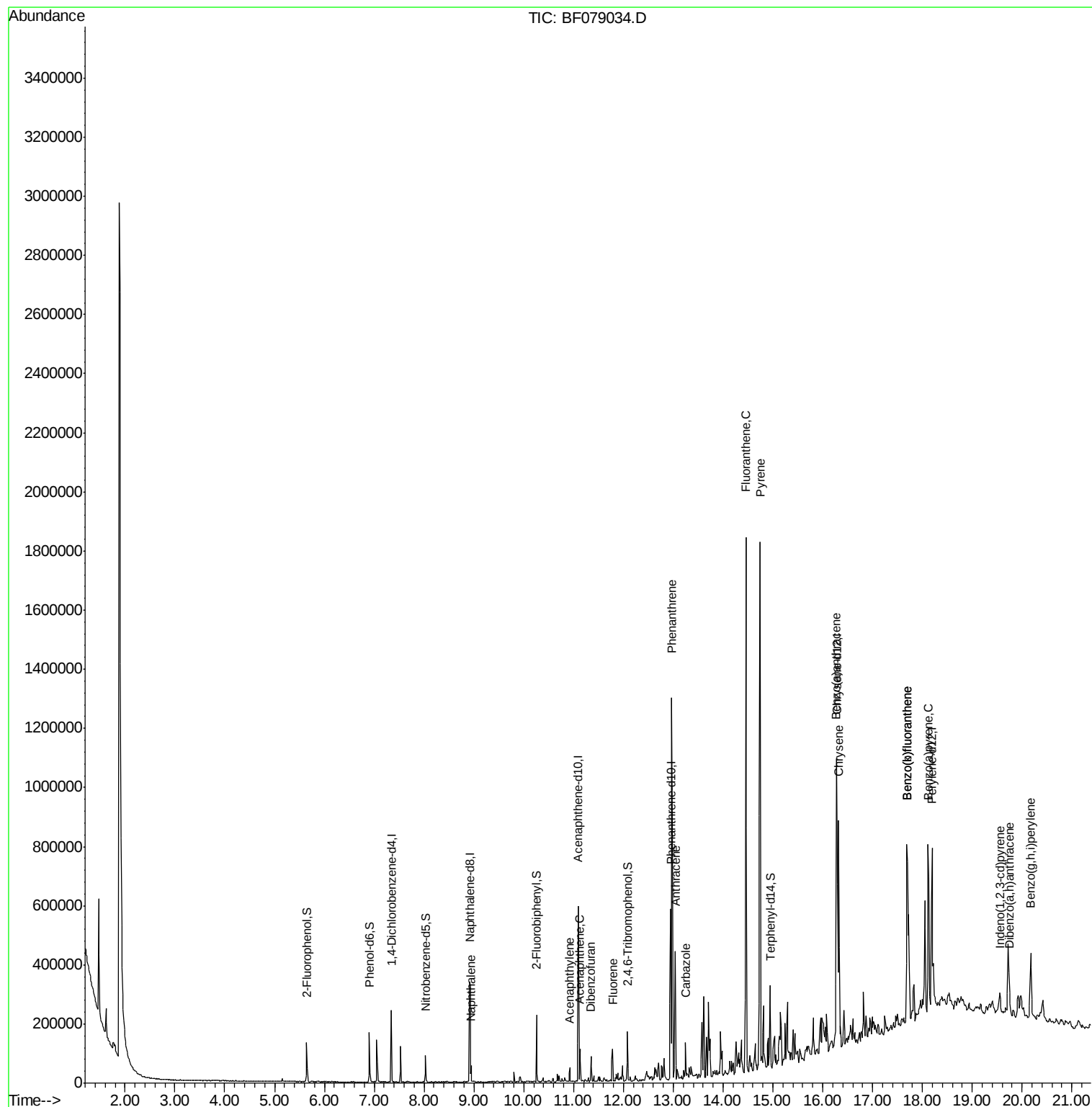
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.35	152	54228	20.00	ng	-0.02
21) Naphthalene-d8	8.92	136	228570	20.00	ng	-0.02
38) Acenaphthene-d10	11.10	164	119082	20.00	ng	-0.03
63) Phenanthrene-d10	12.95	188	239621	20.00	ng	-0.02
75) Chrysene-d12	16.29	240	261230	20.00	ng	-0.01
86) Perylene-d12	18.19	264	289213	20.00	ng	0.08
System Monitoring Compounds						
5) 2-Fluorophenol	5.64	112	40084	12.72	ng	-0.02
7) Phenol-d6	6.90	99	57154	13.73	ng	-0.02
23) Nitrobenzene-d5	8.03	82	29800	7.49	ng	-0.03
41) 2,4,6-Tribromophenol	12.08	330	14849	11.53	ng	-0.03
44) 2-Fluorobiphenyl	10.26	172	68434	8.01	ng	-0.03
78) Terphenyl-d14	14.95	244	80708	7.40	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	8.95	128	25191	2.31	ng	99
48) Acenaphthylene	10.92	152	24810	2.05	ng	99
51) Acenaphthene	11.13	154	31324	4.33	ng	96
54) Dibenzofuran	11.35	168	37220	3.56	ng	98
57) Fluorene	11.78	166	36708	4.28	ng	97
70) Phenanthrene	12.97	178	620218	46.27	ng	100
71) Anthracene	13.04	178	167781	12.76	ng	98
72) Carbazole	13.25	167	49419	3.94	ng	99
74) Fluoranthene	14.46	202	852073	61.00	ng	99
77) Pyrene	14.74	202	781538	51.92	ng	99
80) Benzo(a)anthracene	16.27	228	419981	29.36	ng	98
82) Chrysene	16.32	228	336112	24.43	ng	97
85) Indeno(1,2,3-cd)pyrene	19.55	276	44049	2.51	ng	# 100
87) Benzo(b)fluoranthene	17.69	252	592416	37.42	ng	96
88) Benzo(k)fluoranthene	17.69	252	538164	35.12	ng	97
89) Benzo(a)pyrene	18.11	252	338291	23.21	ng	# 93
90) Dibenzo(a,h)anthracene	19.75	278	44808	2.89	ng	# 91
91) Benzo(g,h,i)perylene	20.17	276	187879	12.10	ng	97

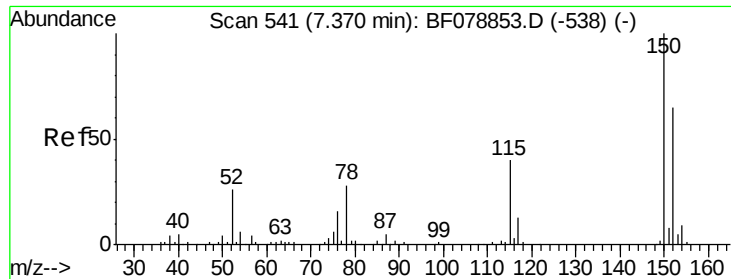
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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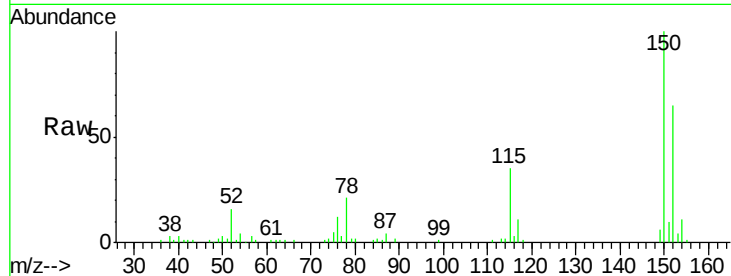


#1

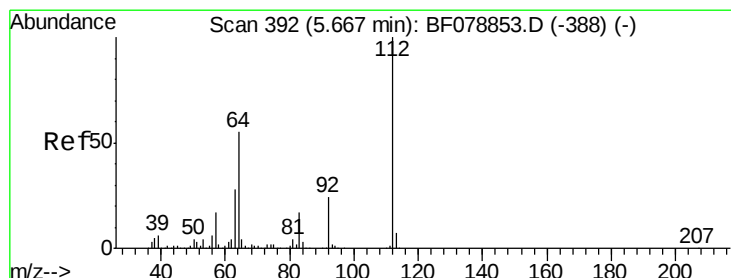
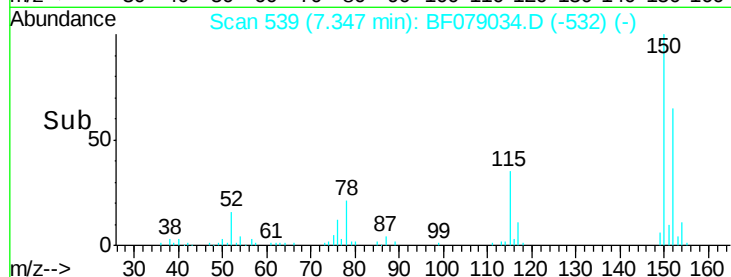
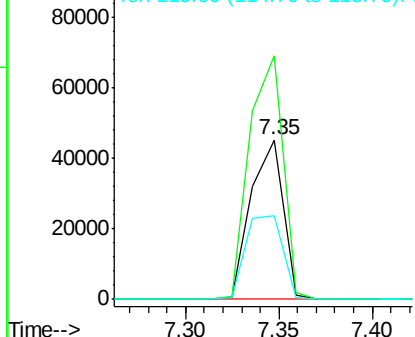
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.35 min Scan# 539
Delta R.T. -0.02 min
Lab File: BF079034.D
Acq: 8 May 2015 11:23

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 54228
Ion Ratio Lower Upper
152 100
150 152.7 122.0 183.0
115 52.8 46.3 69.5



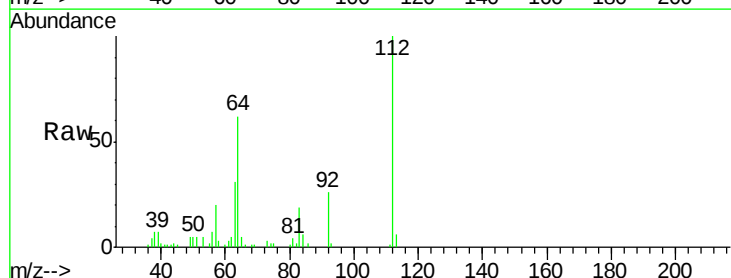
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



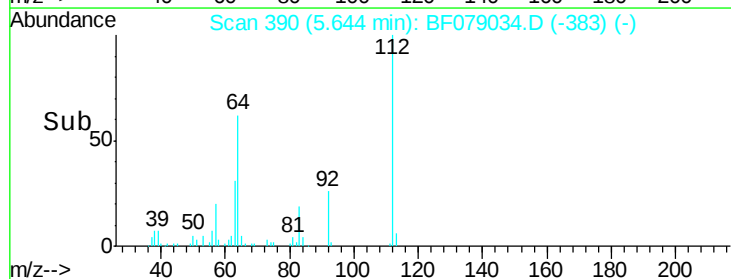
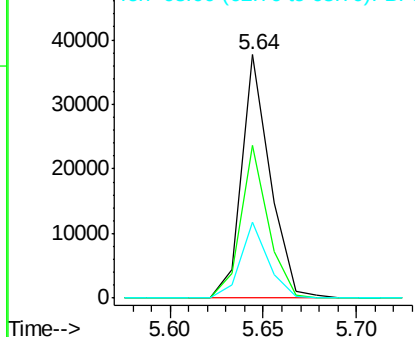
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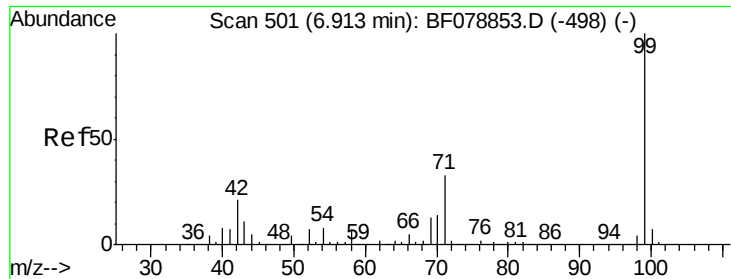
2-Fluorophenol
Concen: 12.72 ng
RT: 5.64 min Scan# 390
Delta R.T. -0.02 min
Lab File: BF079034.D
Acq: 8 May 2015 11:23

Tgt Ion:112 Resp: 40084
Ion Ratio Lower Upper
112 100
64 62.5 53.5 80.3
63 31.1 27.5 41.3



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: 13.73 ng

RT: 6.90 min Scan# 500

Delta R.T. -0.02 min

Lab File: BF079034.D

Acq: 8 May 2015 11:23

Instrument :

BNA_F

ClientSampleId :

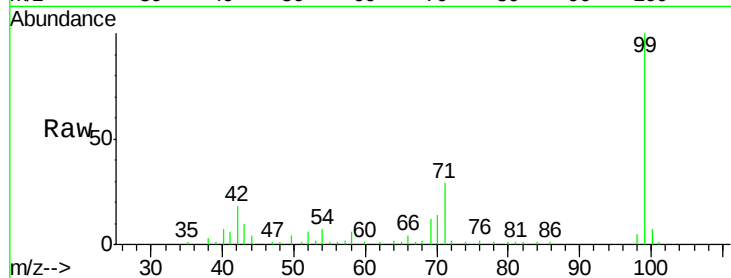
Tot Ion: 99 Resp: 57154

Ion Ratio Lower Upper

99 100

42 18.1 12.8 19.2

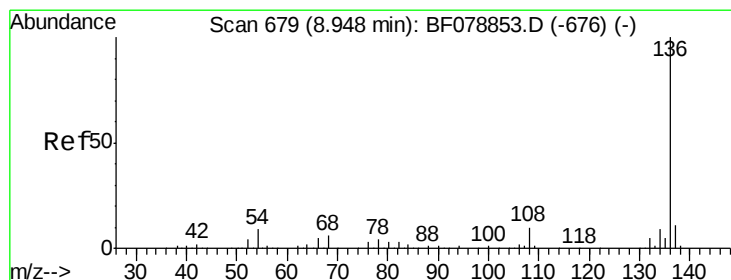
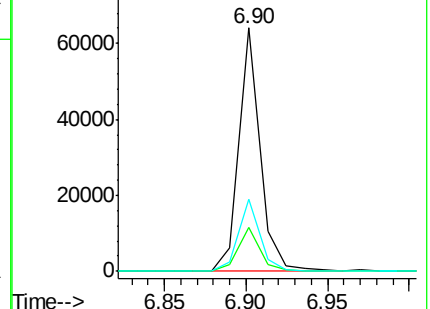
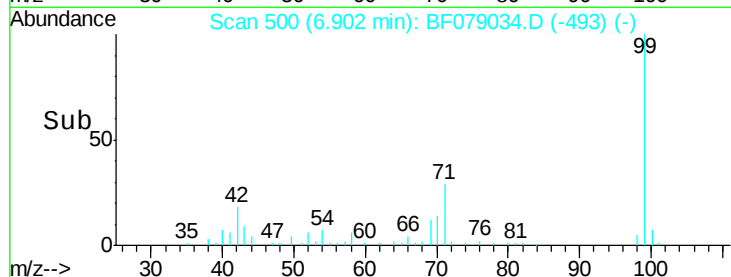
71 29.5 23.4 35.2



Abundance Ion 99.00 (98.70 to 99.70): BF078853.D (-498) (-)

Ion 42.00 (41.70 to 42.70): BF078853.D (-498) (-)

Ion 71.00 (70.70 to 71.70): BF078853.D (-498) (-)



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.92 min Scan# 677

Delta R.T. -0.02 min

Lab File: BF079034.D

Acq: 8 May 2015 11:23

Tgt Ion: 136 Resp: 228570

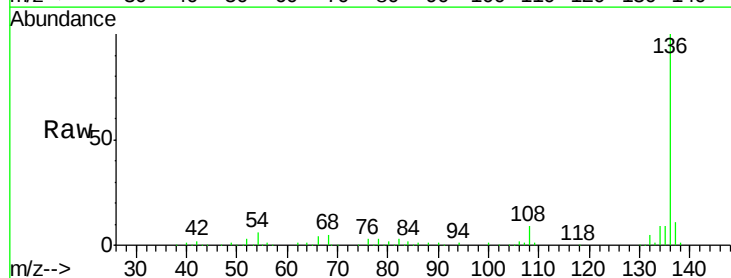
Ion Ratio Lower Upper

136 100

137 10.5 8.7 13.1

54 5.8 5.8 8.8#

68 4.8 4.2 6.4

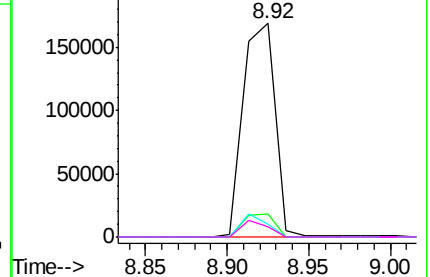
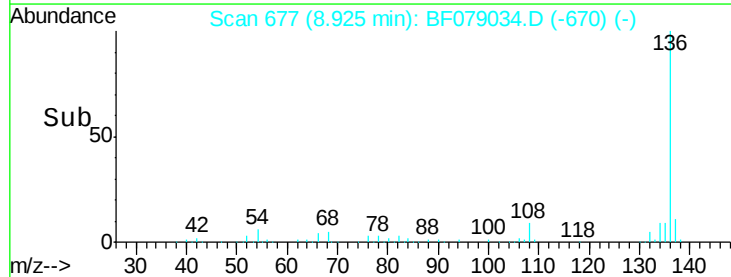


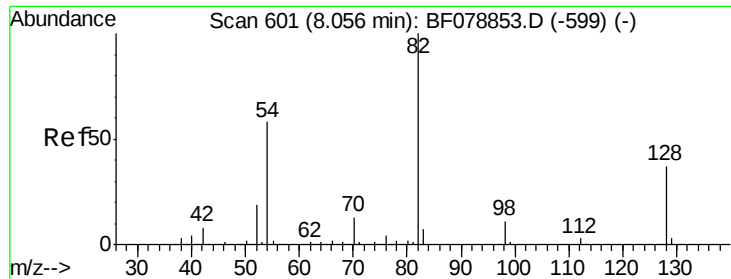
Abundance Ion 136.00 (135.70 to 136.70): BF078853.D (-676) (-)

Ion 137.00 (136.70 to 137.70): BF078853.D (-676) (-)

Ion 54.00 (53.70 to 54.70): BF078853.D (-676) (-)

Ion 68.00 (67.70 to 68.70): BF078853.D (-676) (-)





#23

Nitrobenzene-d5

Concen: 7.49 ng

RT: 8.03 min Scan# 599

Delta R.T. -0.03 min

Lab File: BF079034.D

Acq: 8 May 2015 11:23

Instrument :

BNA_F

ClientSampleId :

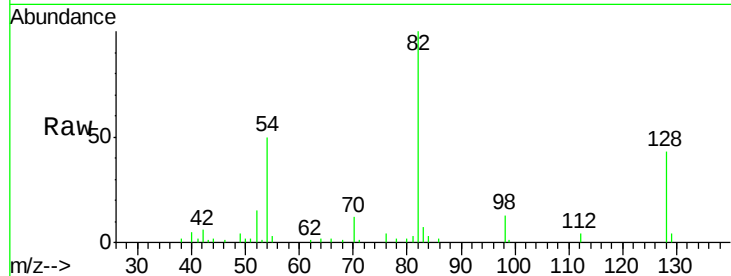
Tot Ion: 82 Resp: 29800

Ion Ratio Lower Upper

82 100

128 42.7 30.0 45.0

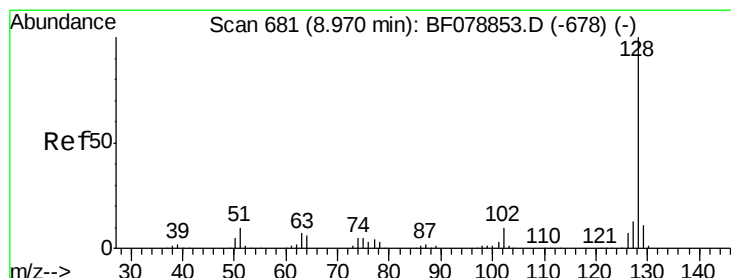
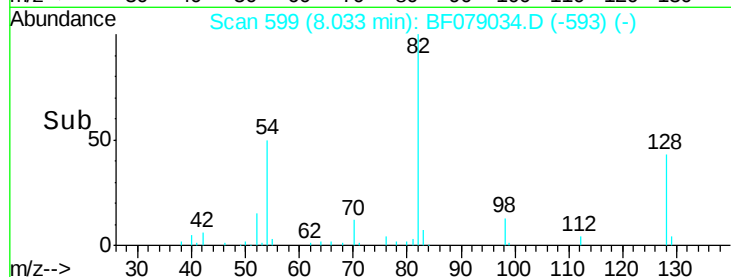
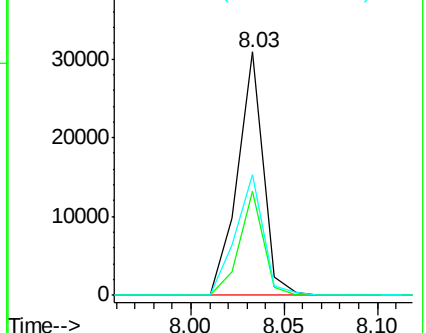
54 49.8 46.4 69.6



Abundance Ion 82.00 (81.70 to 82.70): BF079034.D (-599) (-)

Ion 128.00 (127.70 to 128.70): BF079034.D (-599) (-)

Ion 54.00 (53.70 to 54.70): BF079034.D (-599) (-)



#31

Naphthalene

Concen: 2.31 ng

RT: 8.95 min Scan# 679

Delta R.T. -0.03 min

Lab File: BF079034.D

Acq: 8 May 2015 11:23

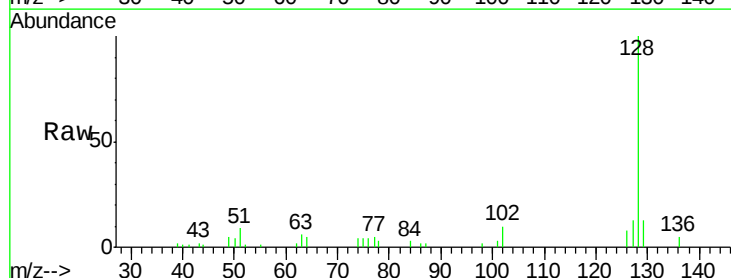
Tgt Ion: 128 Resp: 25191

Ion Ratio Lower Upper

128 100

129 12.7 9.3 13.9

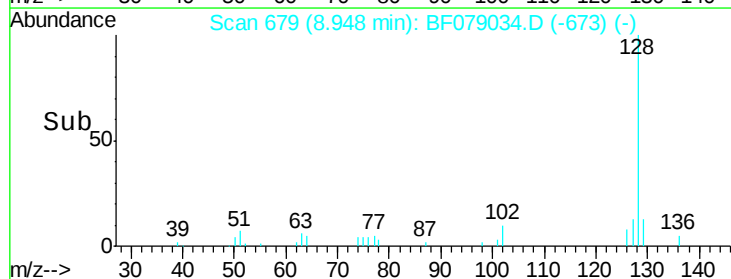
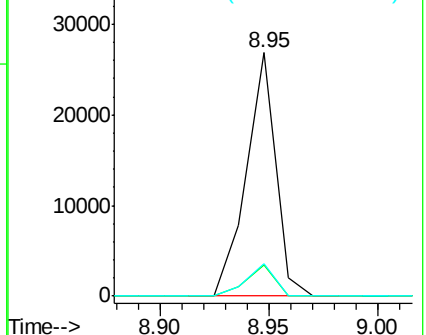
127 13.3 10.7 16.1

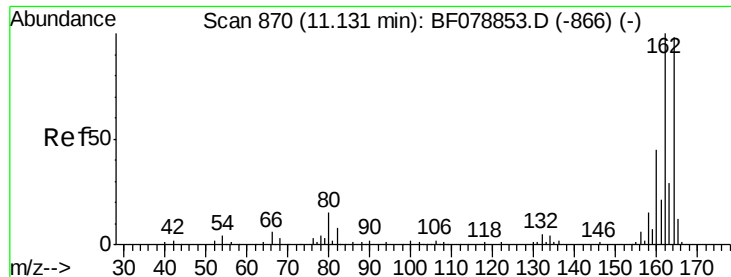


Abundance Ion 128.00 (127.70 to 128.70): BF079034.D (-673) (-)

Ion 129.00 (128.70 to 129.70): BF079034.D (-673) (-)

Ion 127.00 (126.70 to 127.70): BF079034.D (-673) (-)

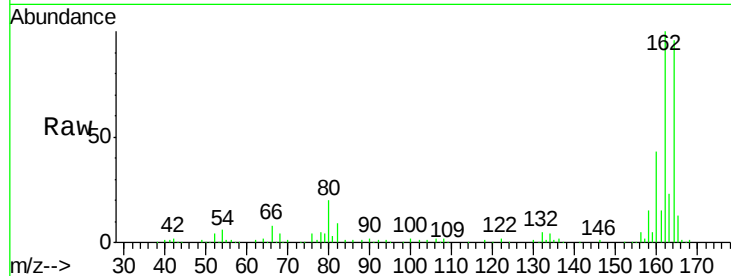




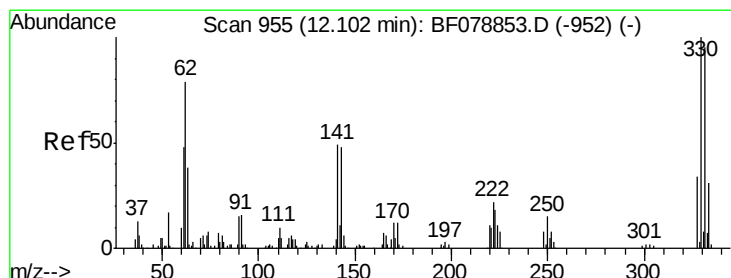
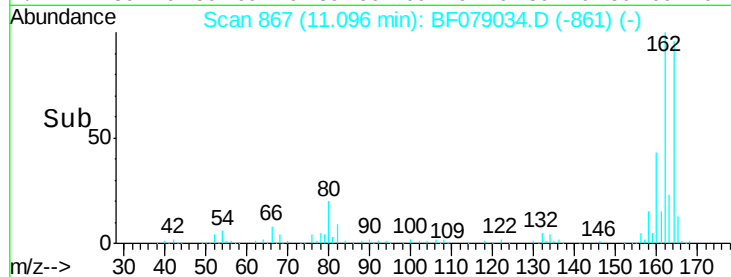
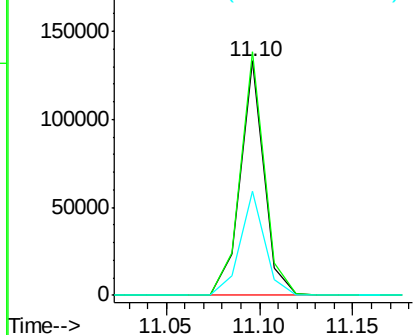
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 11.10 min Scan# 867
Delta R.T. -0.03 min
Lab File: BF079034.D
Acq: 8 May 2015 11:23

Instrument :
BNA_F
ClientSampleId :

Tot Ion:164 Resp: 119082
Ion Ratio Lower Upper
164 100
162 103.9 82.7 124.1
160 44.4 35.8 53.8

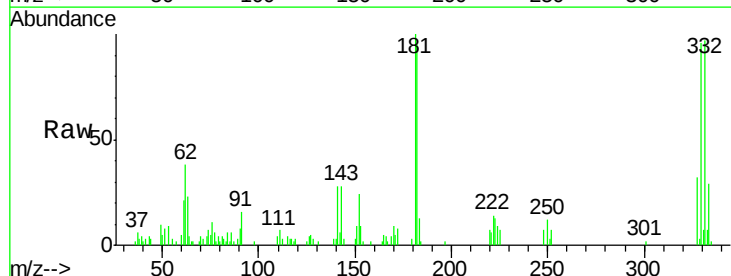


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

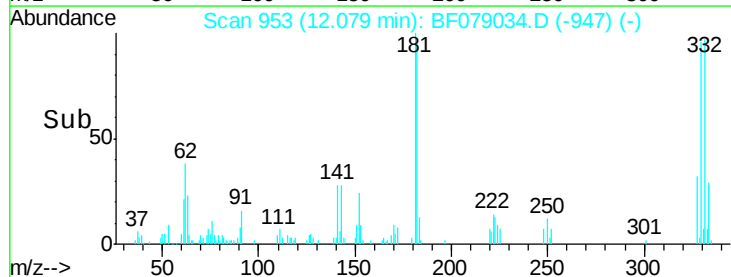
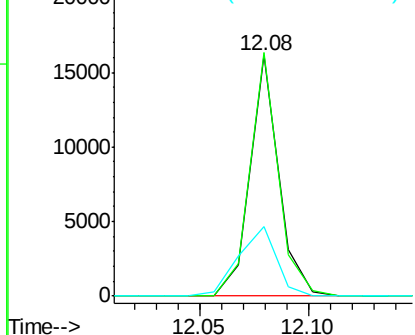


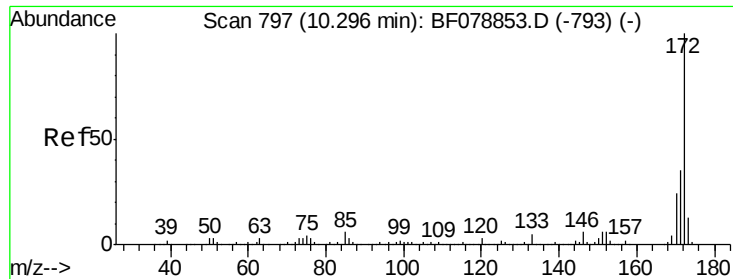
#41
2,4,6-Tribromophenol
Concen: 11.53 ng
RT: 12.08 min Scan# 953
Delta R.T. -0.03 min
Lab File: BF079034.D
Acq: 8 May 2015 11:23

Tgt Ion:330 Resp: 14849
Ion Ratio Lower Upper
330 100
332 99.7 0.0 0.0#
141 38.2 0.0 0.0#



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

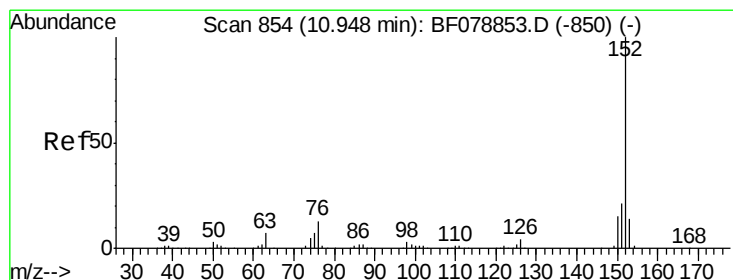
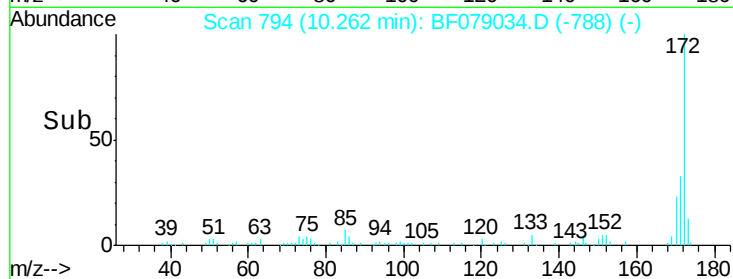
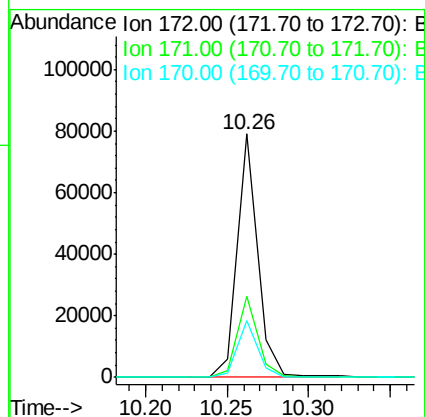
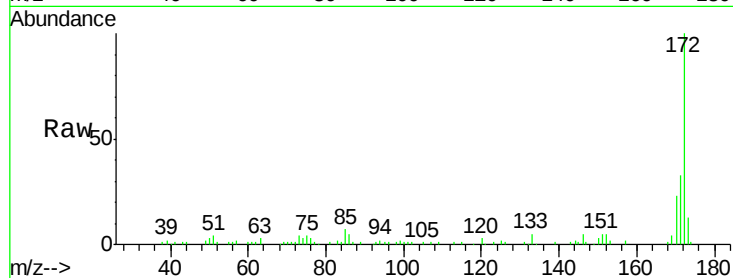




#44
2-Fluorobiphenyl
Concen: 8.01 ng
RT: 10.26 min Scan# 794
Delta R.T. -0.03 min
Lab File: BF079034.D
Acq: 8 May 2015 11:23

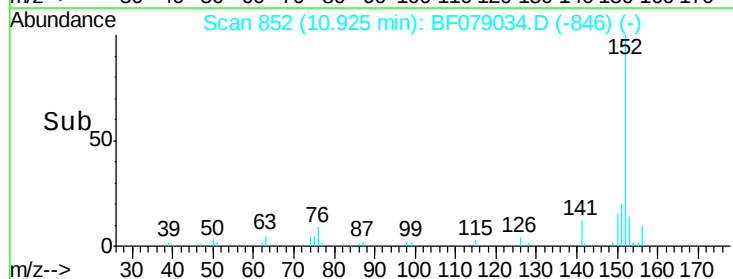
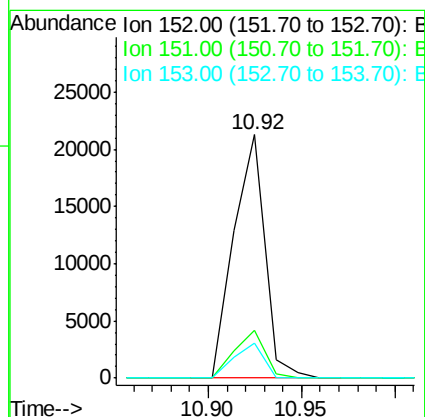
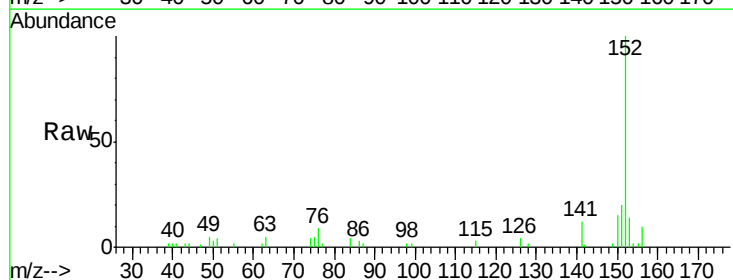
Instrument :
BNA_F
ClientSampleId :

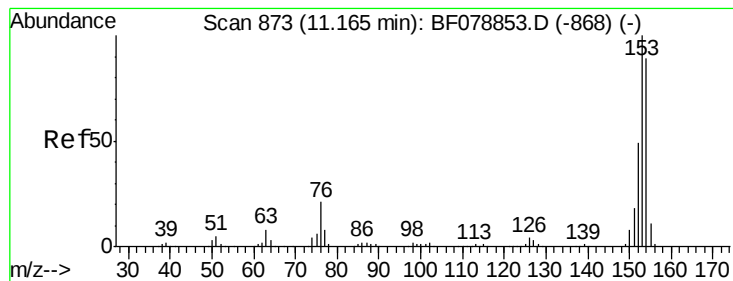
Tot Ion:172 Resp: 68434
Ion Ratio Lower Upper
172 100
171 33.3 27.9 41.9
170 23.5 19.4 29.0



#48
Acenaphthylene
Concen: 2.05 ng
RT: 10.92 min Scan# 852
Delta R.T. -0.03 min
Lab File: BF079034.D
Acq: 8 May 2015 11:23

Tgt Ion:152 Resp: 24810
Ion Ratio Lower Upper
152 100
151 19.7 16.2 24.4
153 14.2 10.9 16.3





#51

Acenaphthene

Concen: 4.33 ng

RT: 11.13 min Scan# 870

Delta R.T. -0.05 min

Lab File: BF079034.D

Acq: 8 May 2015 11:23

Instrument :

BNA_F

ClientSampleId :

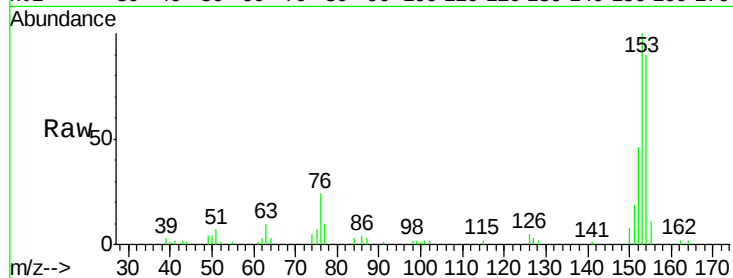
Tot Ion:154 Resp: 31324

Ion Ratio Lower Upper

154 100

153 110.7 91.5 137.3

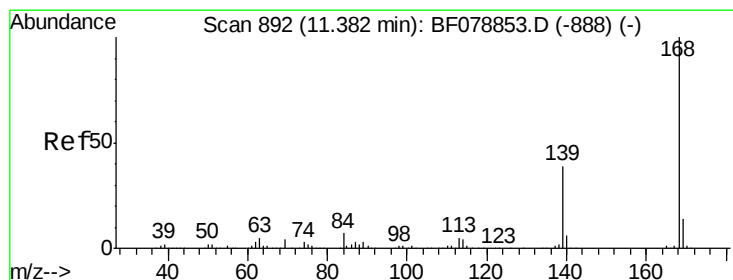
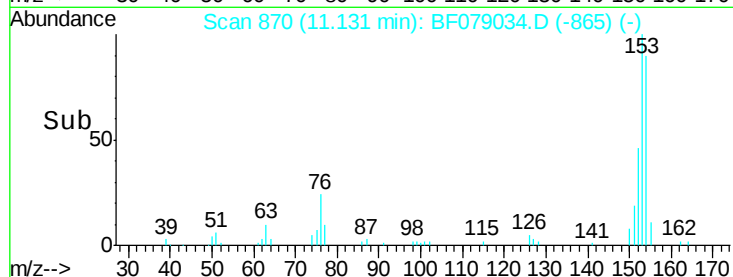
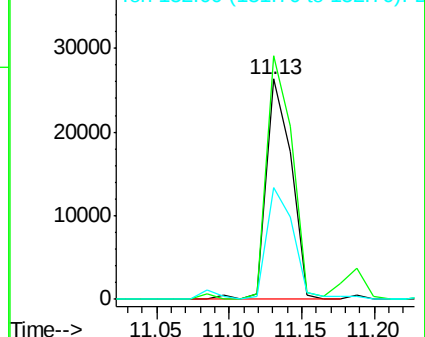
152 50.8 44.2 66.4



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 3.56 ng

RT: 11.35 min Scan# 889

Delta R.T. -0.03 min

Lab File: BF079034.D

Acq: 8 May 2015 11:23

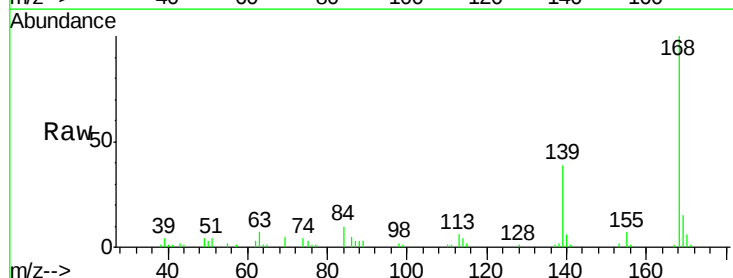
Tgt Ion:168 Resp: 37220

Ion Ratio Lower Upper

168 100

139 39.3 31.0 46.4

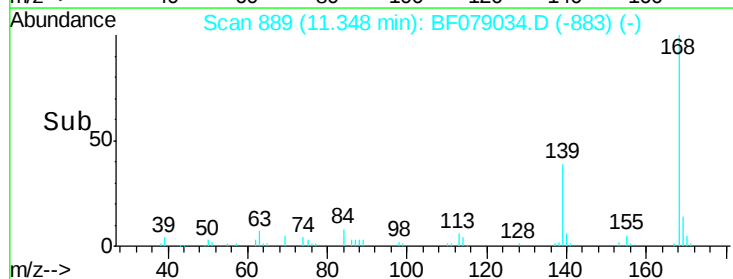
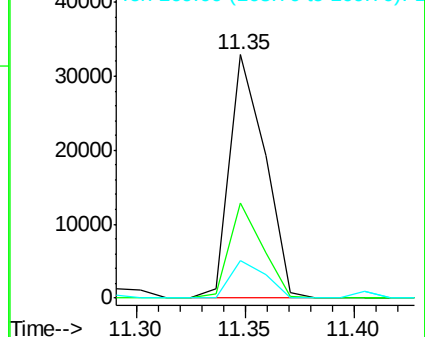
169 15.2 10.6 16.0

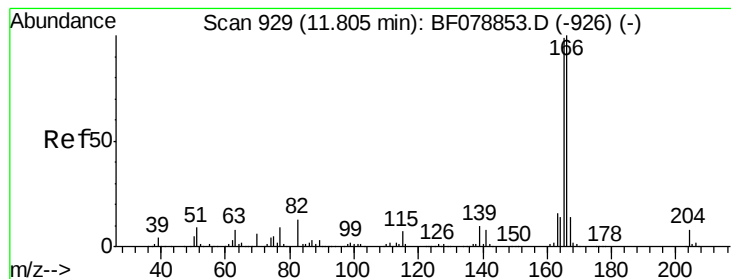


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 4.28 ng

RT: 11.78 min Scan# 927

Delta R.T. -0.03 min

Lab File: BF079034.D

Acq: 8 May 2015 11:23

Instrument :

BNA_F

ClientSampleId :

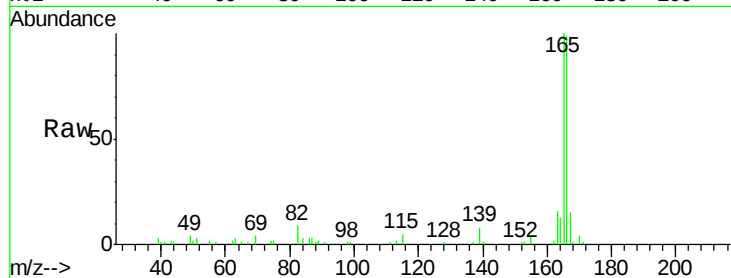
Tot Ion:166 Resp: 36708

Ion Ratio Lower Upper

166 100

165 100.9 78.5 117.7

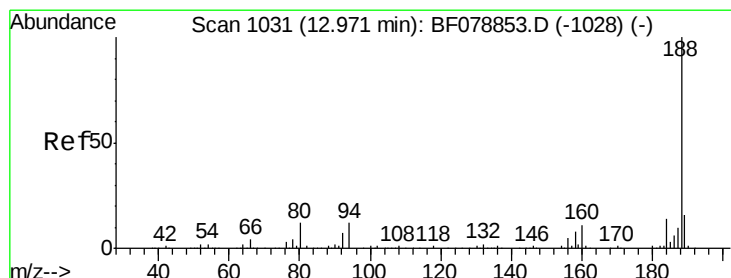
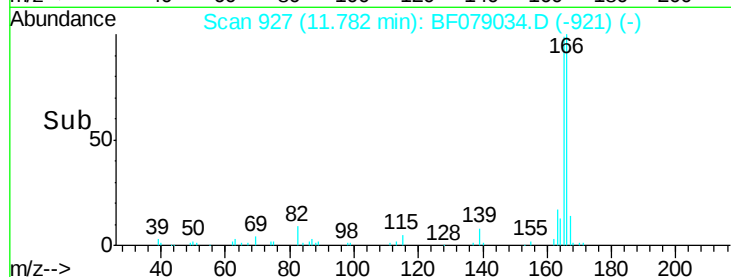
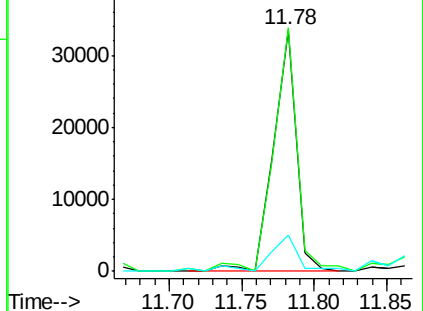
167 15.0 11.0 16.6



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: 12.95 min Scan# 1029

Delta R.T. -0.02 min

Lab File: BF079034.D

Acq: 8 May 2015 11:23

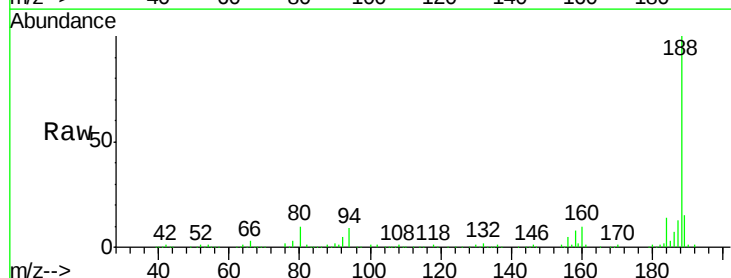
Tgt Ion:188 Resp: 239621

Ion Ratio Lower Upper

188 100

94 9.1 8.2 12.2

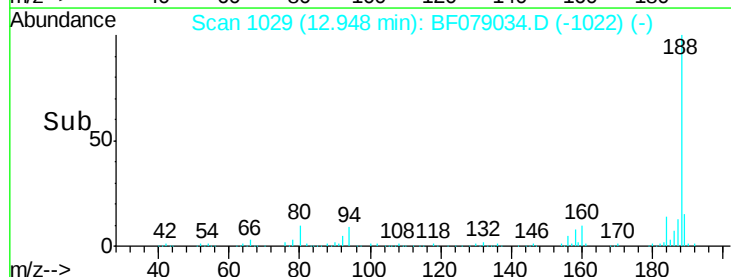
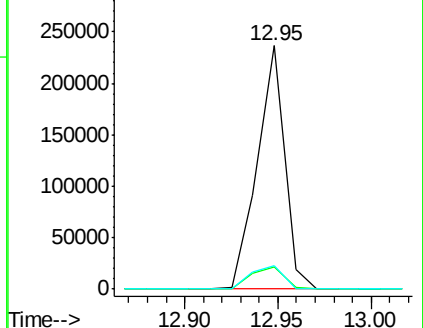
80 9.7 8.9 13.3

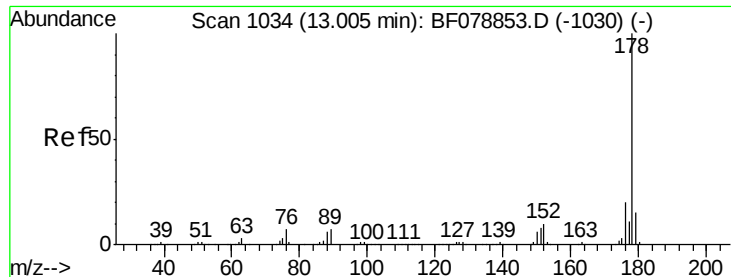


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 46.27 ng

RT: 12.97 min Scan# 1031

Delta R.T. -0.03 min

Lab File: BF079034.D

Acq: 8 May 2015 11:23

Instrument :

BNA_F

ClientSampleId :

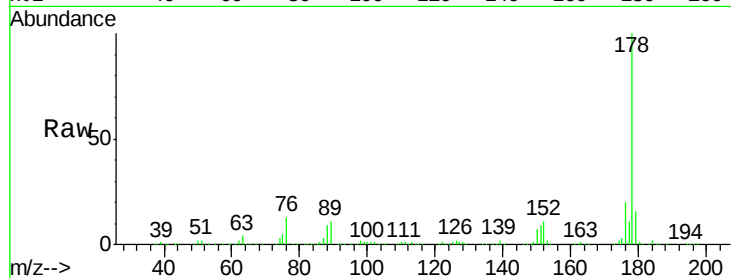
Tot Ion:178 Resp: 620218

Ion Ratio Lower Upper

178 100

176 19.9 15.8 23.8

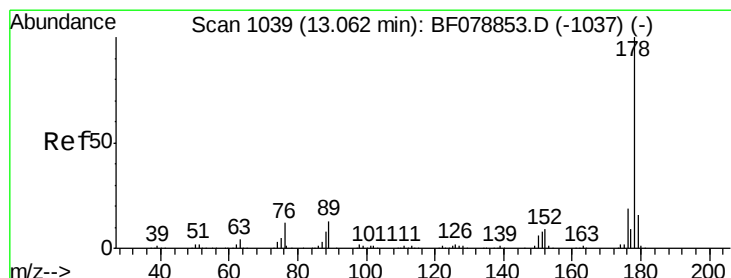
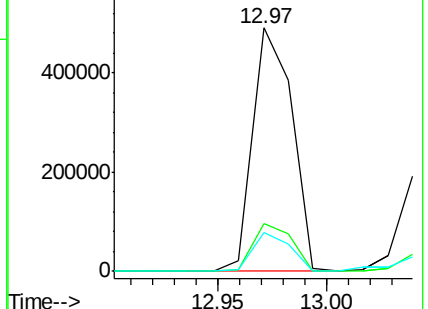
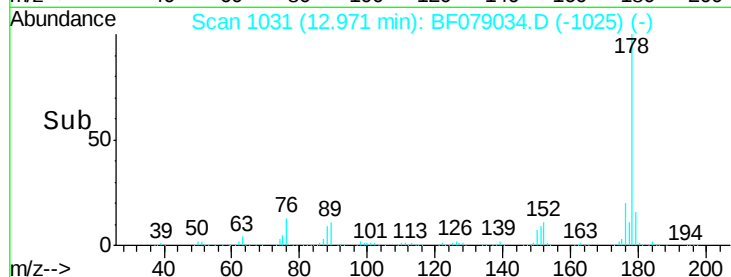
179 16.0 12.5 18.7



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: 12.76 ng

RT: 13.04 min Scan# 1037

Delta R.T. -0.03 min

Lab File: BF079034.D

Acq: 8 May 2015 11:23

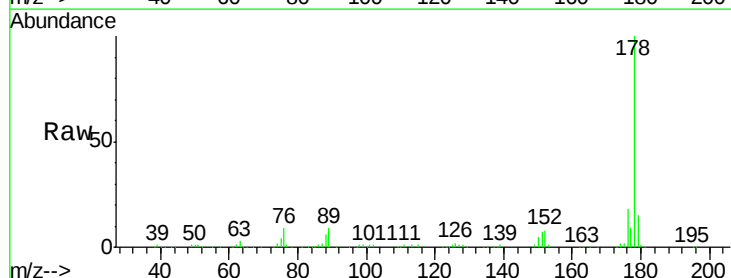
Tgt Ion:178 Resp: 167781

Ion Ratio Lower Upper

178 100

176 18.0 15.5 23.3

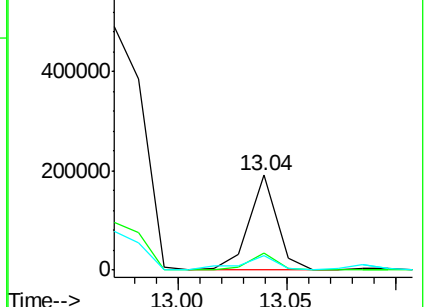
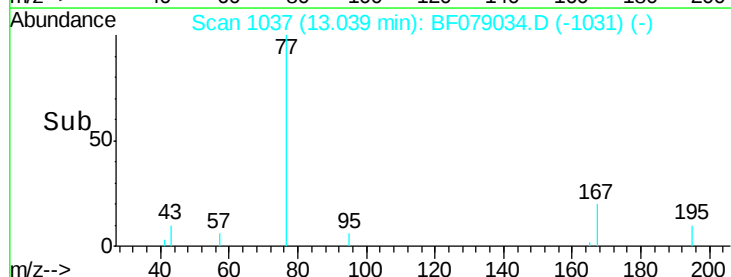
179 15.4 12.7 19.1

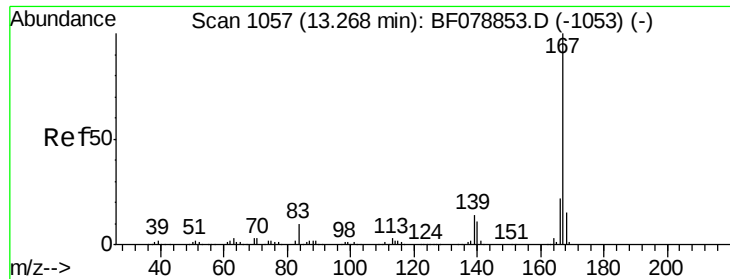


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

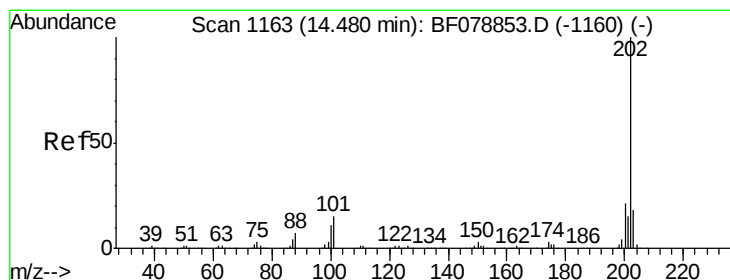
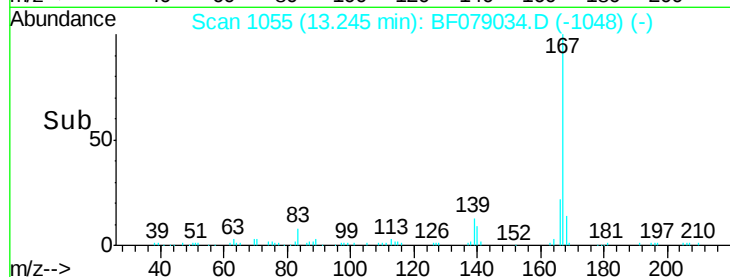
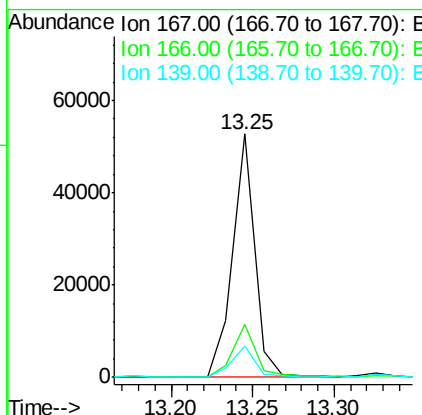
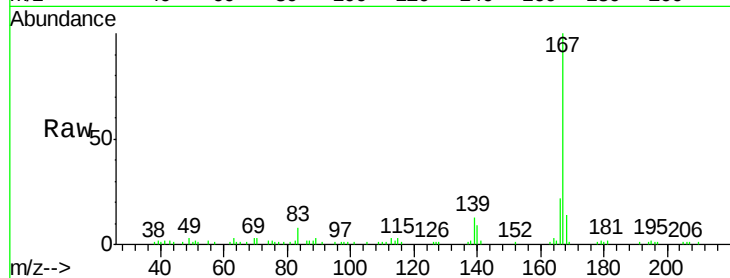




#72
 Carbazole
 Concen: 3.94 ng
 RT: 13.25 min Scan# 1055
 Delta R.T. -0.02 min
 Lab File: BF079034.D
 Acq: 8 May 2015 11:23

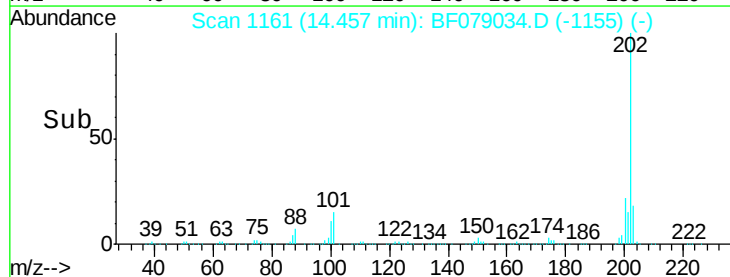
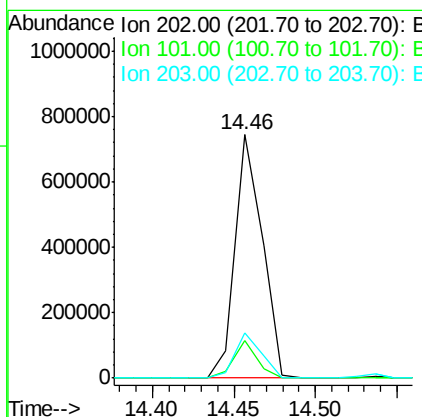
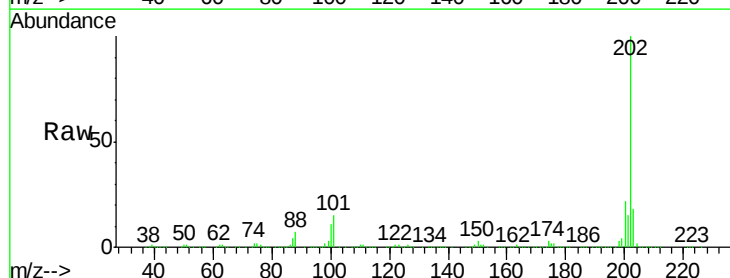
Instrument :
 BNA_F
 ClientSampleId :

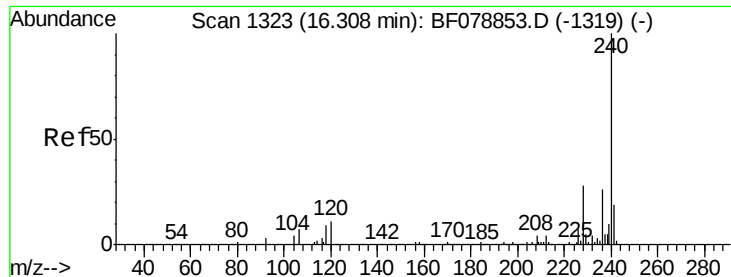
Tot Ion:167 Resp: 49419
 Ion Ratio Lower Upper
 167 100
 166 22.0 17.8 26.8
 139 12.6 10.6 16.0



#74
 Fluoranthene
 Concen: 61.00 ng
 RT: 14.46 min Scan# 1161
 Delta R.T. -0.03 min
 Lab File: BF079034.D
 Acq: 8 May 2015 11:23

Tgt Ion:202 Resp: 852073
 Ion Ratio Lower Upper
 202 100
 101 15.2 0.0 34.6
 203 18.4 0.0 38.4





#75

Chrysene-d12

Concen: 20.00 ng

RT: 16.29 min Scan# 1321

Delta R.T. -0.01 min

Lab File: BF079034.D

Acq: 8 May 2015 11:23

Instrument :

BNA_F

ClientSampleId :

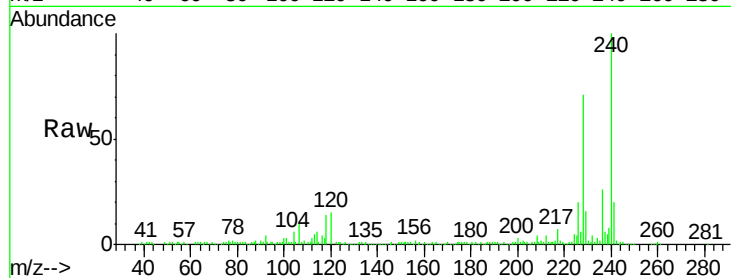
Tot Ion:240 Resp: 261230

Ion Ratio Lower Upper

240 100

120 15.2 9.7 14.5#

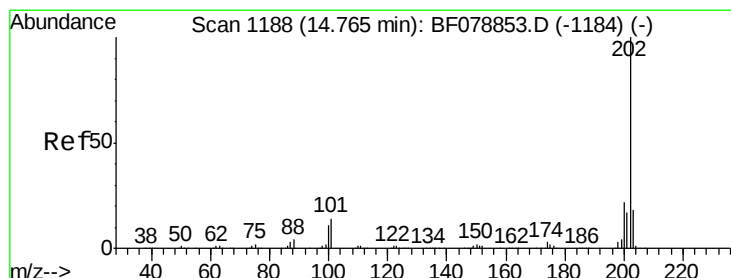
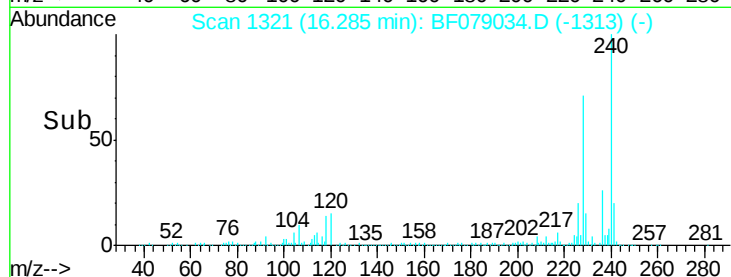
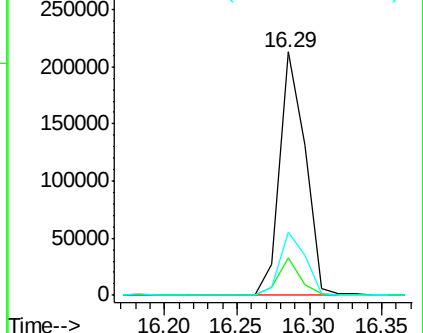
236 26.0 20.2 30.4



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: 51.92 ng

RT: 14.74 min Scan# 1186

Delta R.T. -0.02 min

Lab File: BF079034.D

Acq: 8 May 2015 11:23

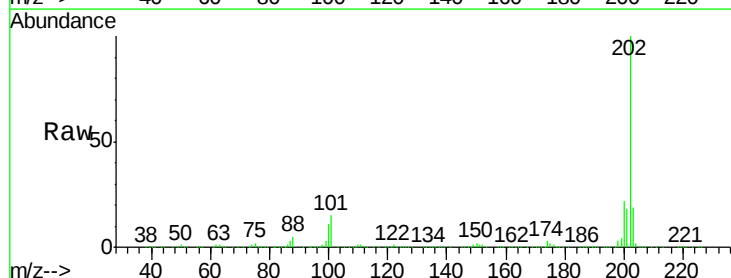
Tgt Ion:202 Resp: 781538

Ion Ratio Lower Upper

202 100

200 21.8 17.5 26.3

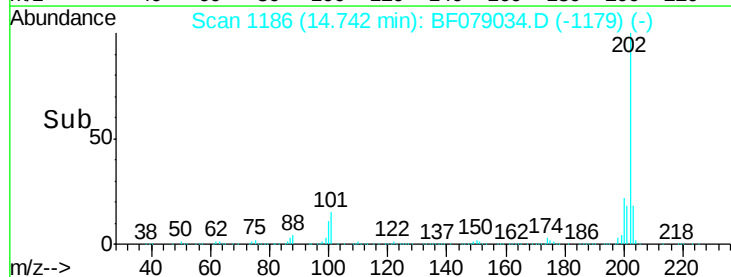
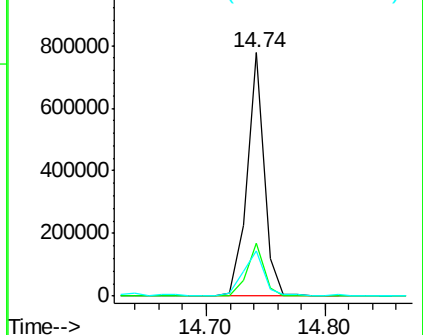
203 18.7 13.9 20.9

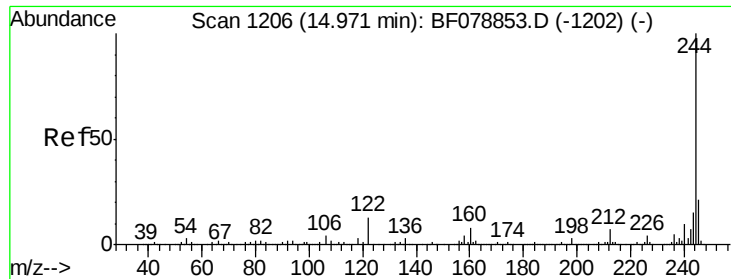


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

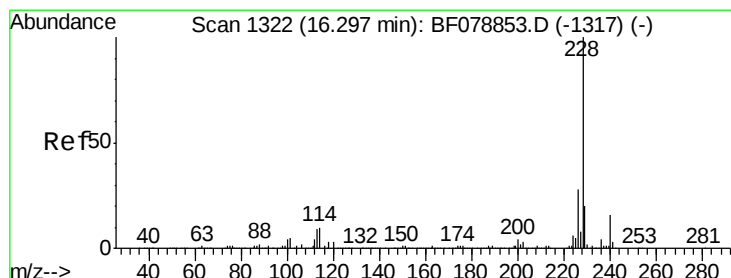
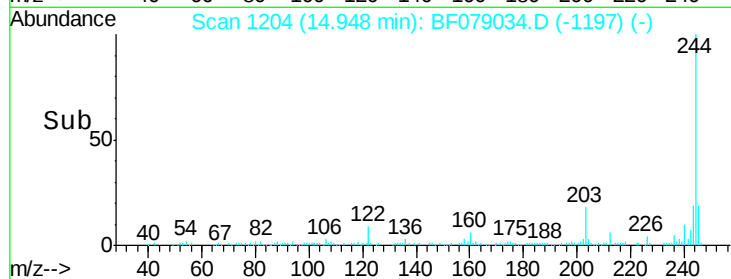
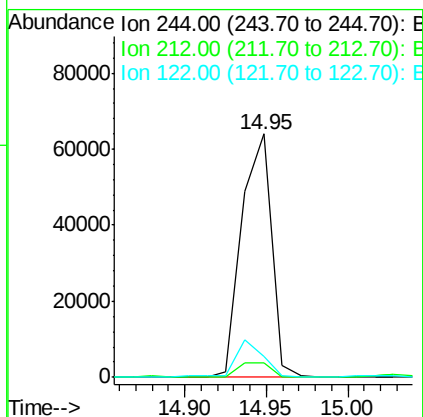
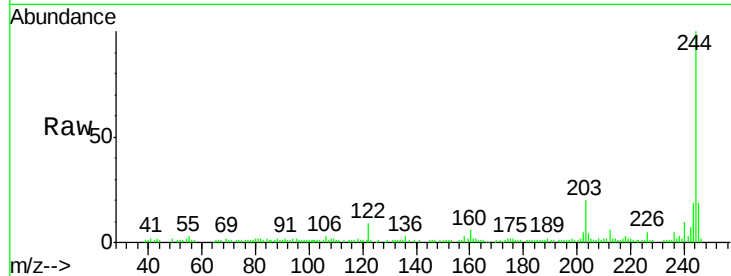




#78
 Terphenyl-d14
 Concen: 7.40 ng
 RT: 14.95 min Scan# 1204
 Delta R.T. -0.02 min
 Lab File: BF079034.D
 Acq: 8 May 2015 11:23

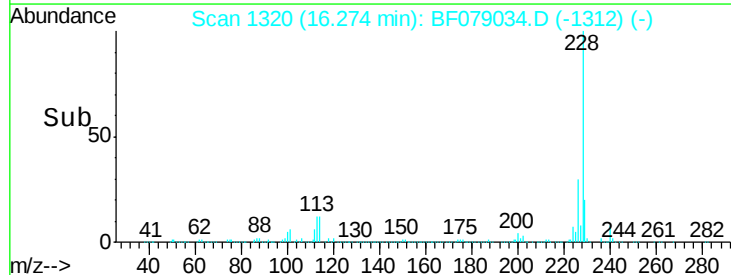
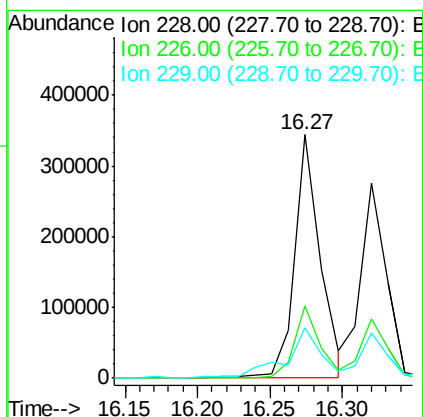
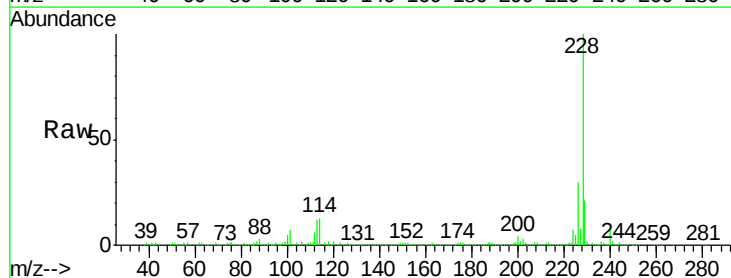
Instrument :
 BNA_F
 ClientSampleId :

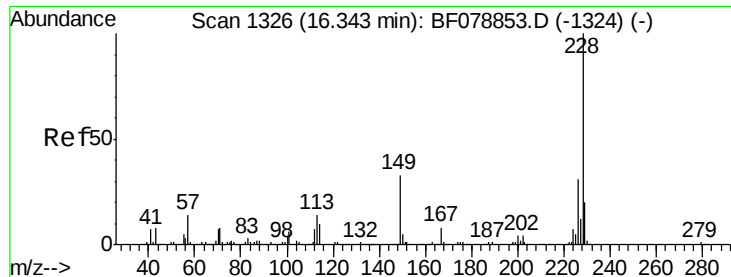
Tot Ion:244 Resp: 80708
 Ion Ratio Lower Upper
 244 100
 212 6.1 5.6 8.4
 122 8.7 10.3 15.5#



#80
 Benzo(a)anthracene
 Concen: 29.36 ng
 RT: 16.27 min Scan# 1320
 Delta R.T. -0.01 min
 Lab File: BF079034.D
 Acq: 8 May 2015 11:23

Tgt Ion:228 Resp: 419981
 Ion Ratio Lower Upper
 228 100
 226 29.7 22.6 33.8
 229 20.6 15.9 23.9





#82

Chrysene

Concen: 24.43 ng

RT: 16.32 min Scan# 1324

Delta R.T. -0.01 min

Lab File: BF079034.D

Acq: 8 May 2015 11:23

Instrument :

BNA_F

ClientSampleId :

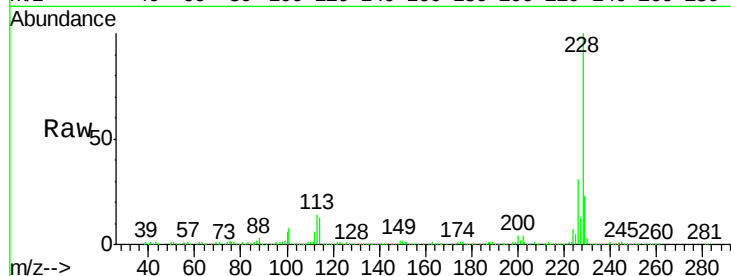
Tot Ion:228 Resp: 336112

Ion Ratio Lower Upper

228 100

226 30.6 24.9 37.3

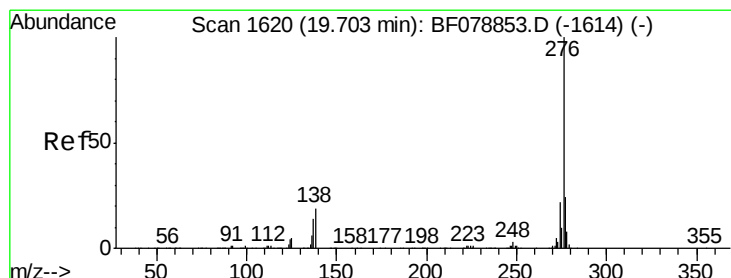
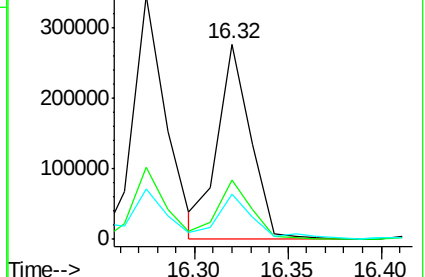
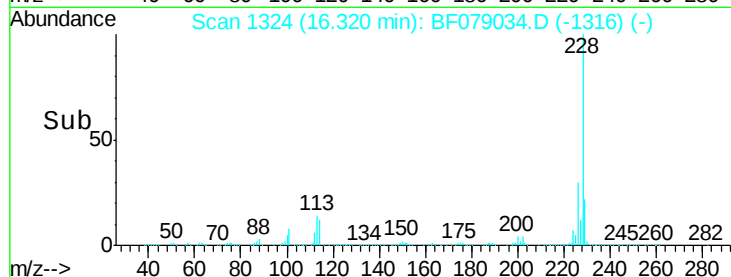
229 23.3 16.0 24.0



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 2.51 ng

RT: 19.55 min Scan# 1607

Delta R.T. -0.09 min

Lab File: BF079034.D

Acq: 8 May 2015 11:23

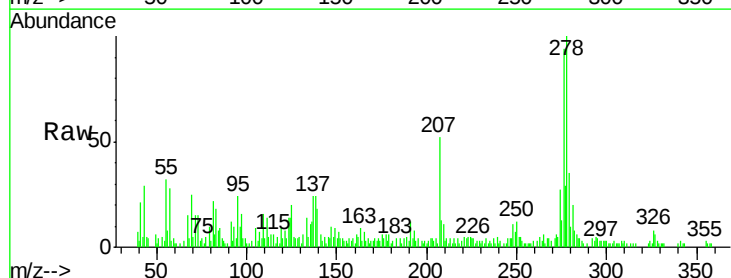
Tgt Ion:276 Resp: 44049

Ion Ratio Lower Upper

276 100

138 19.2 0.0 0.0#

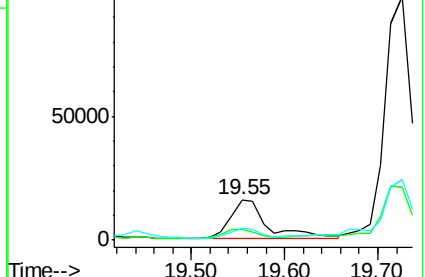
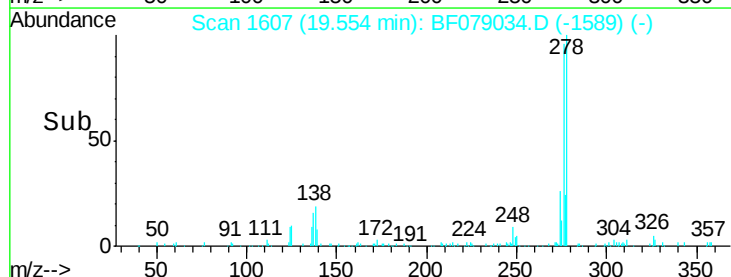
277 21.8 0.0 0.0#

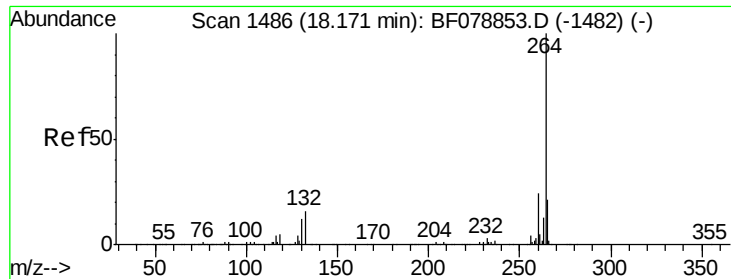


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

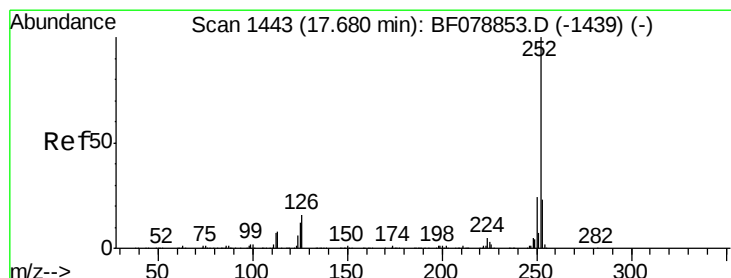
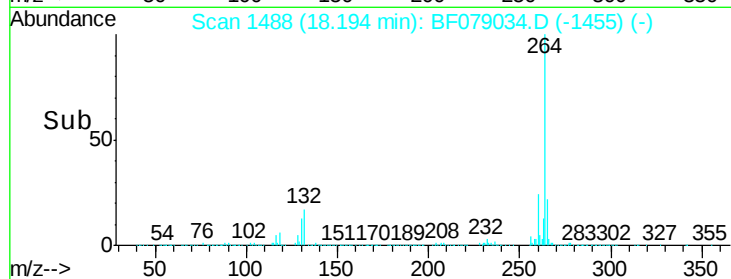
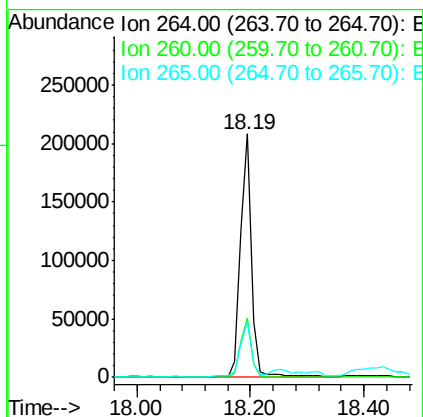
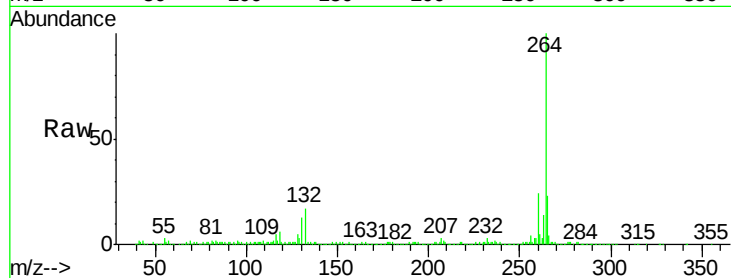




#86
Pervlene-d12
Concen: 20.00 ng
RT: 18.19 min Scan# 1488
Delta R.T. 0.08 min
Lab File: BF079034.D
Acq: 8 May 2015 11:23

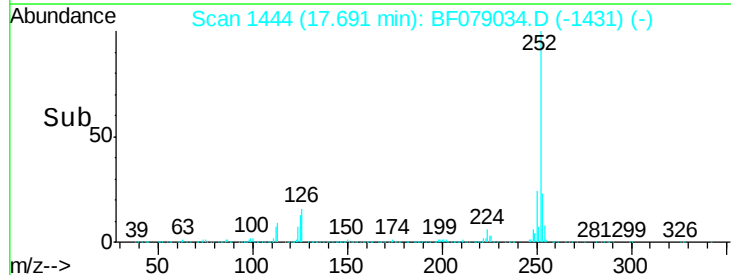
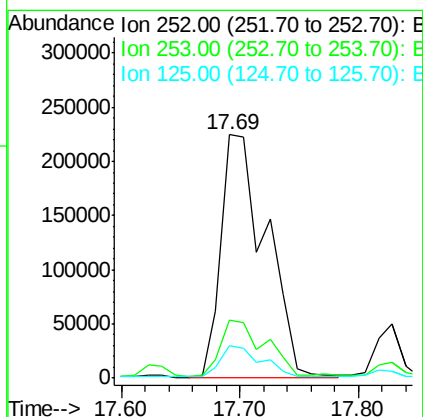
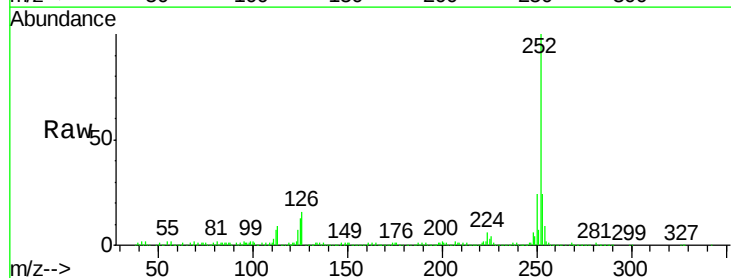
Instrument :
BNA_F
ClientSampleId :

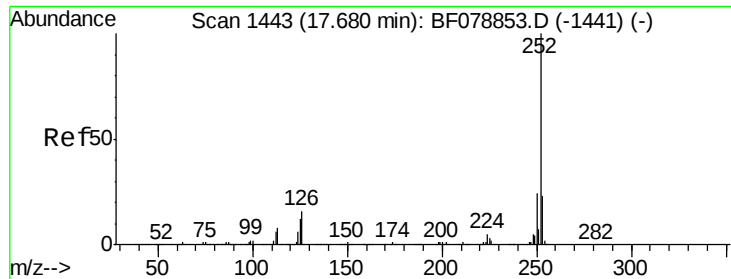
Tot Ion:264 Resp: 289213
Ion Ratio Lower Upper
264 100
260 24.2 19.4 29.2
265 22.7 18.3 27.5



#87
Benzo(b)fluoranthene
Concen: 37.42 ng
RT: 17.69 min Scan# 1444
Delta R.T. 0.05 min
Lab File: BF079034.D
Acq: 8 May 2015 11:23

Tgt Ion:252 Resp: 592416
Ion Ratio Lower Upper
252 100
253 24.0 17.7 26.5
125 13.4 9.5 14.3

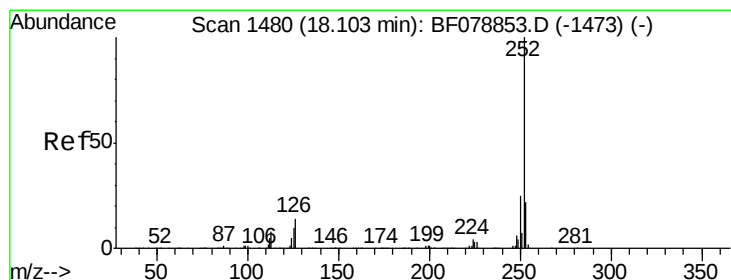
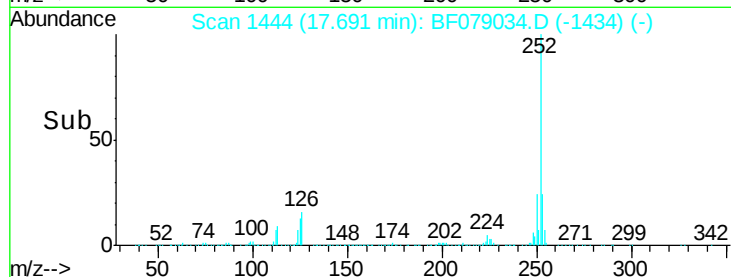
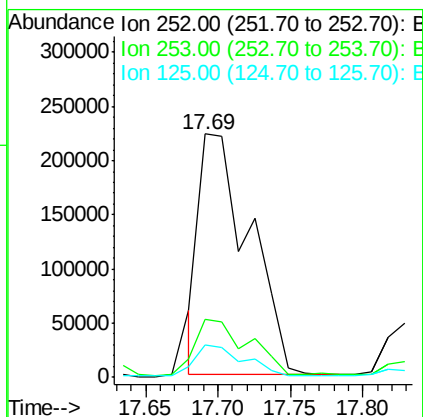
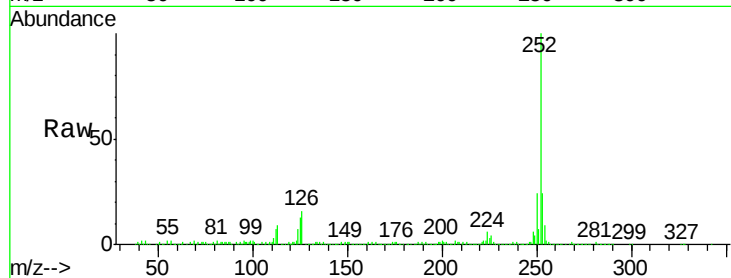




#88
Benzo(k)fluoranthene
Concen: 35.12 ng
RT: 17.69 min Scan# 1444
Delta R.T. 0.01 min
Lab File: BF079034.D
Acq: 8 May 2015 11:23

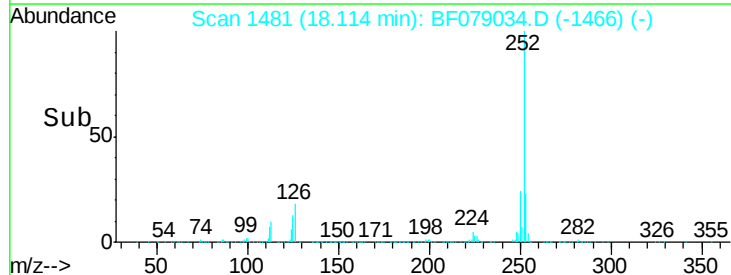
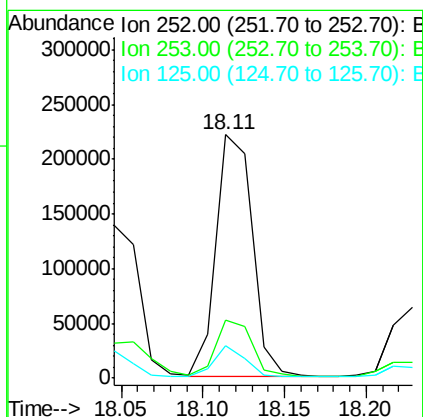
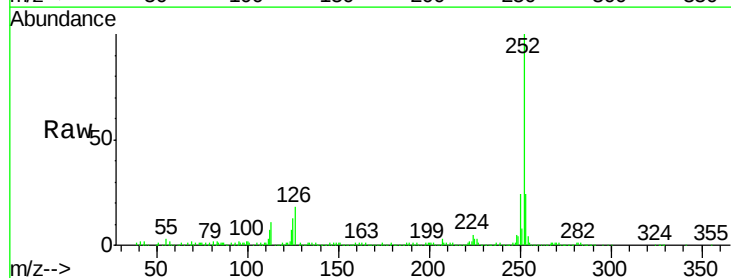
Instrument :
BNA_F
ClientSampleId :

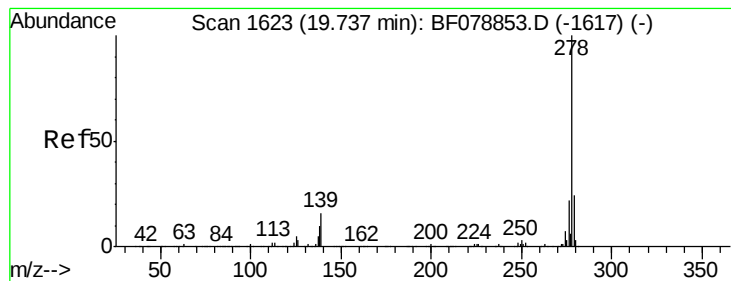
Tot Ion	Ratio	Lower	Upper
252	100		
253	24.0	18.1	27.1
125	13.4	10.0	15.0



#89
Benzo(a)pyrene
Concen: 23.21 ng
RT: 18.11 min Scan# 1481
Delta R.T. 0.07 min
Lab File: BF079034.D
Acq: 8 May 2015 11:23

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.3	25.9
125	13.5	7.0	10.6





#90

Dibenzo(a,h)anthracene

Concen: 2.89 ng

RT: 19.75 min Scan# 1624

Delta R.T. 0.07 min

Lab File: BF079034.D

Acq: 8 May 2015 11:23

Instrument :

BNA_F

ClientSampleId :

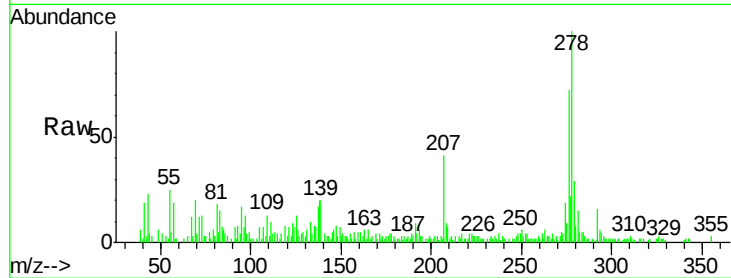
Tot Ion:278 Resp: 44808

Ion Ratio Lower Upper

278 100

139 20.0 12.8 19.2#

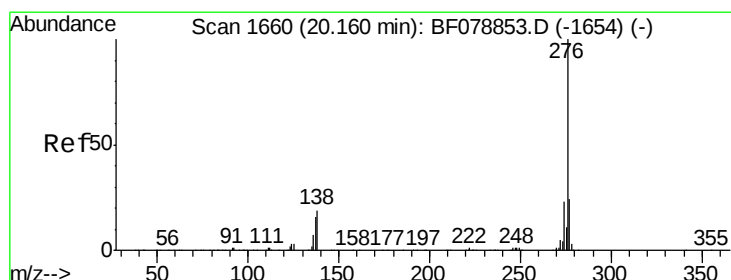
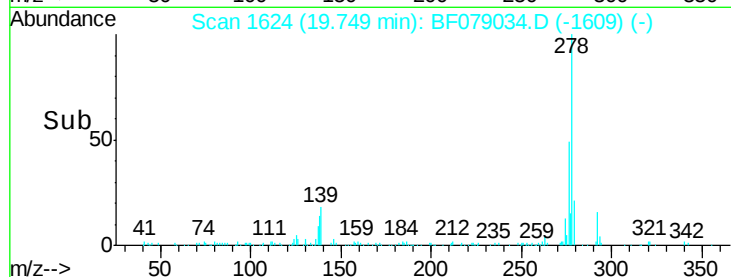
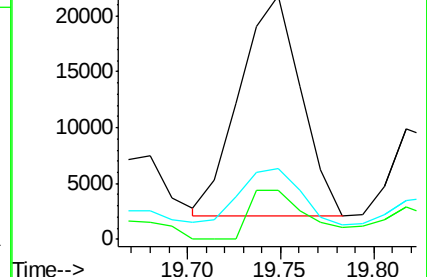
279 29.1 19.6 29.4



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 12.10 ng

RT: 20.17 min Scan# 1661

Delta R.T. 0.07 min

Lab File: BF079034.D

Acq: 8 May 2015 11:23

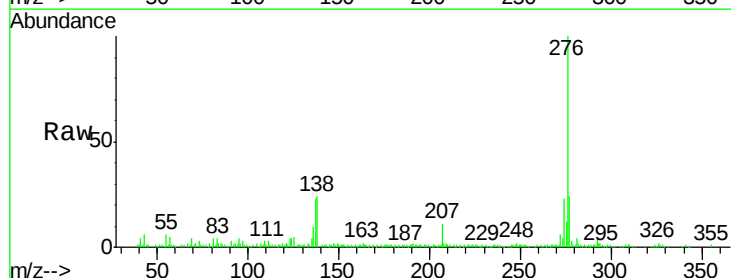
Tgt Ion:276 Resp: 187879

Ion Ratio Lower Upper

276 100

277 24.0 18.6 28.0

138 24.1 17.4 26.0



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

