

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051915\
 Data File : BF079375.D
 Acq On : 20 May 2015 9:16
 Operator : TP/IZ
 Sample : G2281-03DL 2X
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 20 12:34:57 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 20 05:08:22 2015
 Response via : Initial Calibration

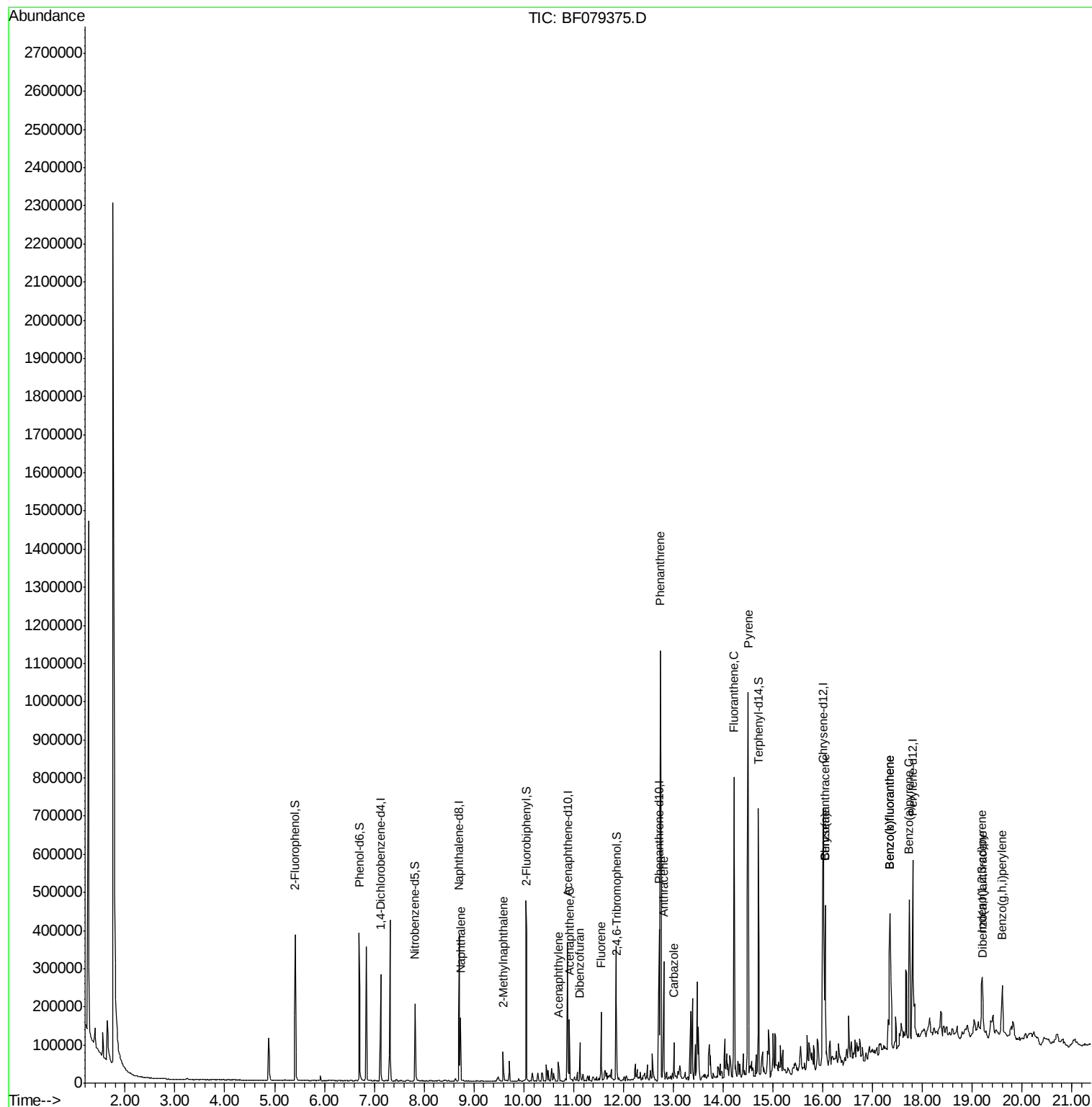
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.13	152	46794	20.00	ng	0.00
21) Naphthalene-d8	8.71	136	196556	20.00	ng	0.00
38) Acenaphthene-d10	10.88	164	92203	20.00	ng	0.00
63) Phenanthrene-d10	12.72	188	182526	20.00	ng	0.00
75) Chrysene-d12	16.01	240	195134	20.00	ng	-0.01
86) Perylene-d12	17.81	264	215273	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	128401	47.23	ng	0.00
7) Phenol-d6	6.70	99	171761	47.80	ng	-0.01
23) Nitrobenzene-d5	7.82	82	94348	27.59	ng	-0.01
41) 2,4,6-Tribromophenol	11.86	330	48471	48.59	ng	0.00
44) 2-Fluorobiphenyl	10.06	172	213104	32.20	ng	0.00
78) Terphenyl-d14	14.71	244	248683	30.51	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.73	128	72442	7.73	ng	99
37) 2-Methylnaphthalene	9.59	142	23242	3.58	ng	97
48) Acenaphthylene	10.70	152	23911	2.55	ng	98
51) Acenaphthene	10.91	154	35706	6.38	ng	98
54) Dibenzofuran	11.13	168	37133	4.59	ng	100
57) Fluorene	11.55	166	51905	7.82	ng	99
70) Phenanthrene	12.74	178	501813	49.14	ng	99
71) Anthracene	12.81	178	137402	13.72	ng	98
72) Carbazole	13.02	167	40297	4.22	ng	99
74) Fluoranthene	14.22	202	454291	42.70	ng	99
77) Pyrene	14.50	202	441043	39.22	ng	100
80) Benzo(a)anthracene	16.05	228	183815	17.20	ng	94
82) Chrysene	16.05	228	182855	17.79	ng	98
85) Indeno(1,2,3-cd)pyrene	19.20	276	106635	8.14	ng	96
87) Benzo(b)fluoranthene	17.35	252	306276	25.99	ng	99
88) Benzo(k)fluoranthene	17.35	252	306276	26.85	ng	# 97
89) Benzo(a)pyrene	17.74	252	177759	16.38	ng	98
90) Dibenzo(a,h)anthracene	19.21	278	25410	2.20	ng	# 88
91) Benzo(a,h,i)perylene	19.60	276	103219	8.93	ng	# 95

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

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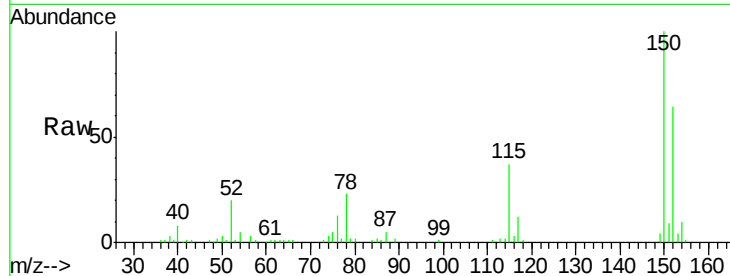




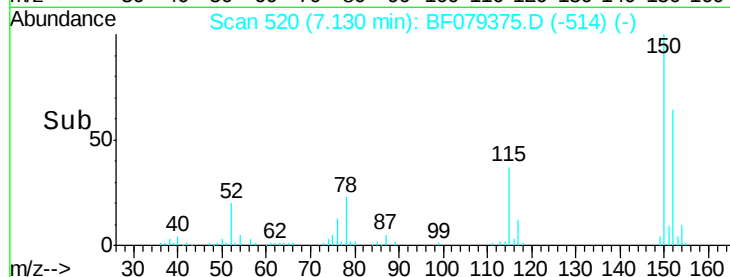
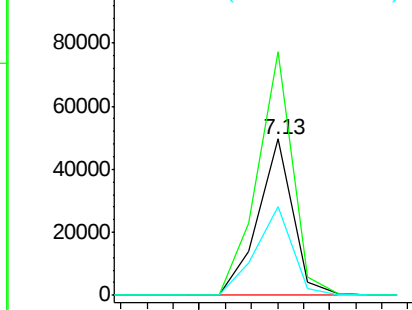
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 7.13 min Scan# 520
 Delta R.T. 0.00 min
 Lab File: BF079375.D
 Acq: 20 May 2015 9:16

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:	152	Resp:	46794
Ion	Ratio	Lower	Upper
152	100		
150	155.7	123.8	185.8
115	57.0	49.4	74.0

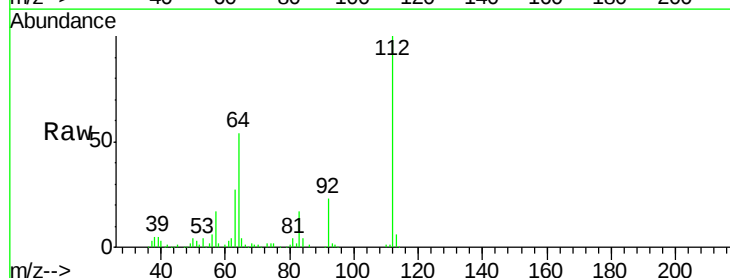


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

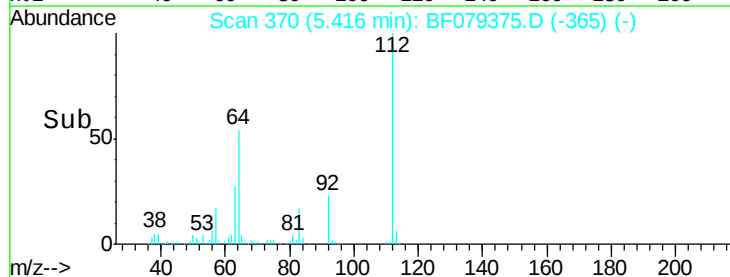
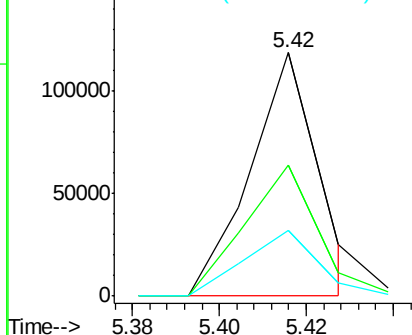


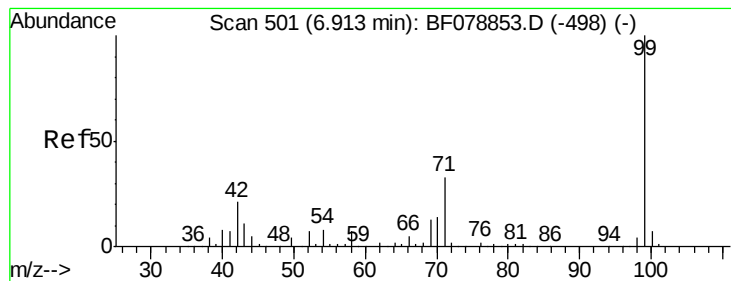
#5
 2-Fluorophenol
 Concen: 47.23 ng
 RT: 5.42 min Scan# 370
 Delta R.T. 0.00 min
 Lab File: BF079375.D
 Acq: 20 May 2015 9:16

Tgt Ion:	112	Resp:	128401
Ion	Ratio	Lower	Upper
112	100		
64	54.0	44.2	66.2
63	26.8	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: 47.80 ng

RT: 6.70 min Scan# 482

Delta R.T. -0.01 min

Lab File: BF079375.D

Acq: 20 May 2015 9:16

Instrument :

BNA_F

ClientSampleId :

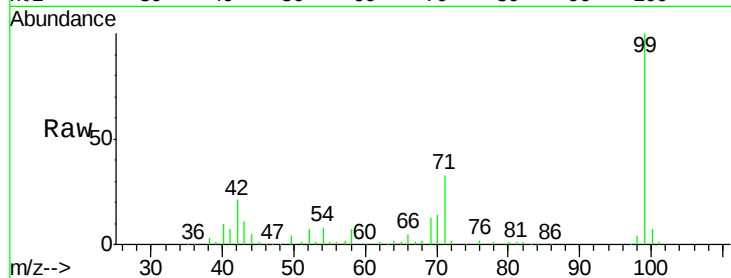
Tot Ion: 99 Resp: 171761

Ion Ratio Lower Upper

99 100

42 20.7 17.1 25.7

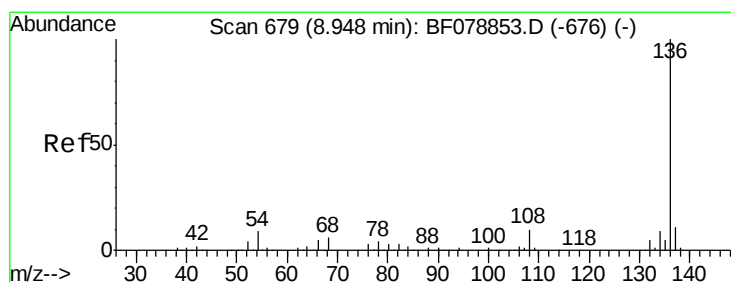
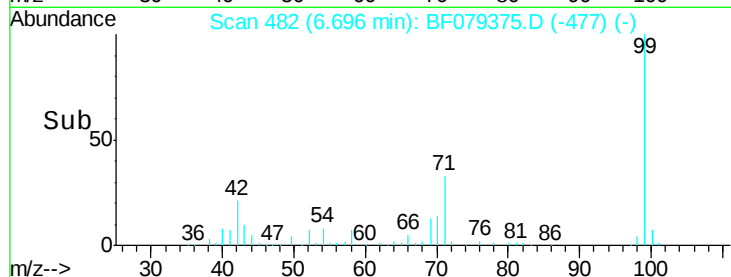
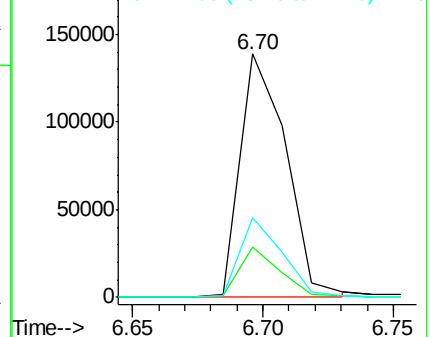
71 32.6 26.3 39.5



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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.71 min Scan# 658

Delta R.T. 0.00 min

Lab File: BF079375.D

Acq: 20 May 2015 9:16

Tgt Ion: 136 Resp: 196556

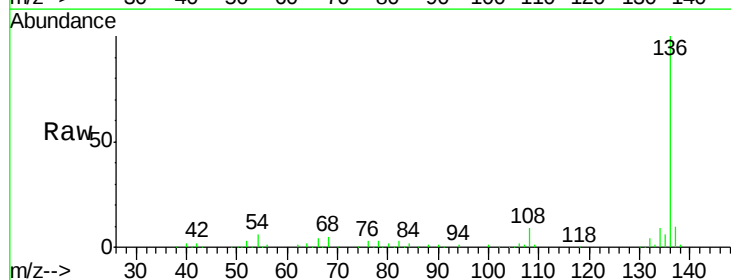
Ion Ratio Lower Upper

136 100

137 10.1 8.8 13.2

54 6.2 6.9 10.3#

68 4.7 4.9 7.3#

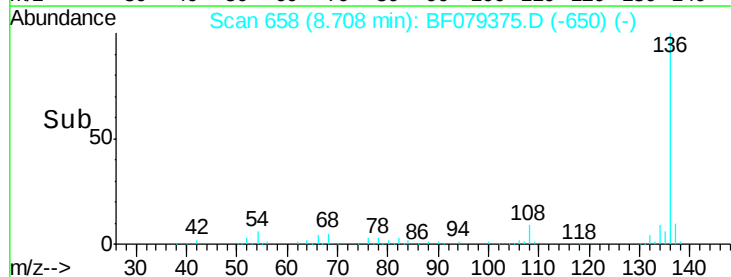
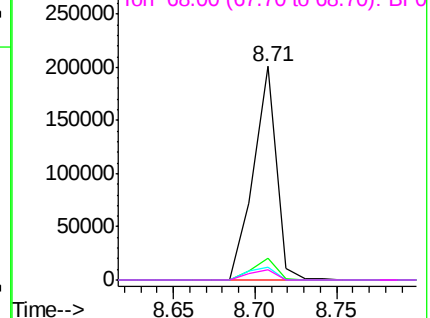


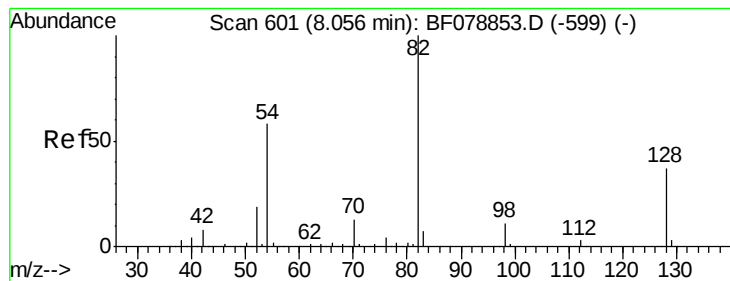
Abundance Ion 136.00 (135.70 to 136.70): E

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: 27.59 ng

RT: 7.82 min Scan# 580

Delta R.T. -0.01 min

Lab File: BF079375.D

Acq: 20 May 2015 9:16

Instrument :

BNA_F

ClientSampleId :

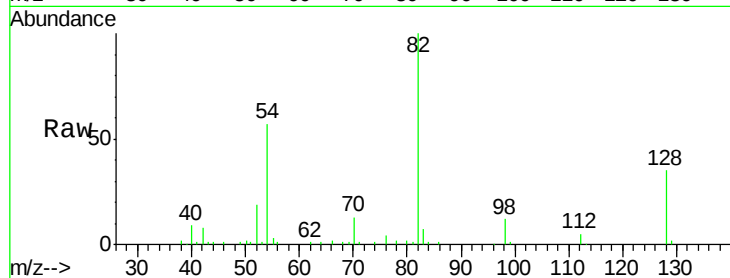
Tot Ion: 82 Resp: 94348

Ion Ratio Lower Upper

82 100

128 34.5 29.7 44.5

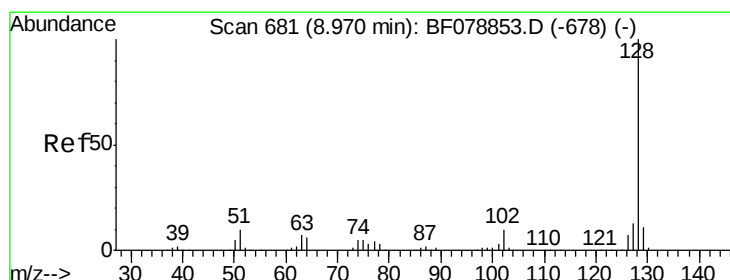
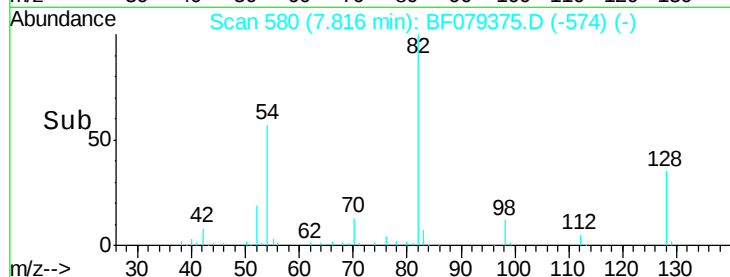
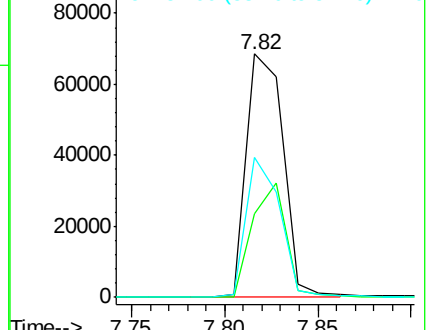
54 57.3 46.2 69.4



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



#31

Naphthalene

Concen: 7.73 ng

RT: 8.73 min Scan# 660

Delta R.T. 0.00 min

Lab File: BF079375.D

Acq: 20 May 2015 9:16

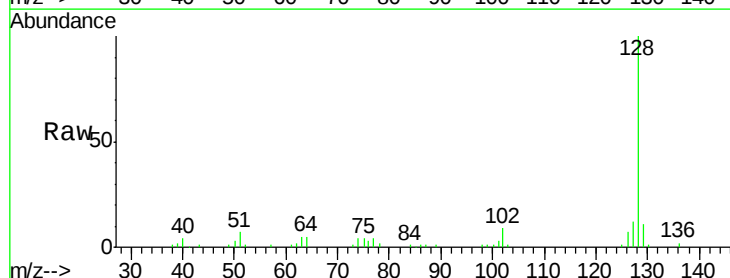
Tgt Ion:128 Resp: 72442

Ion Ratio Lower Upper

128 100

129 11.1 9.2 13.8

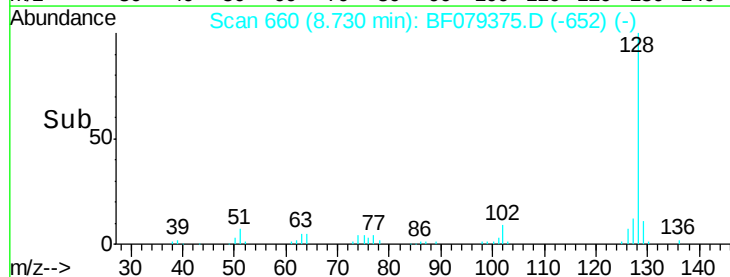
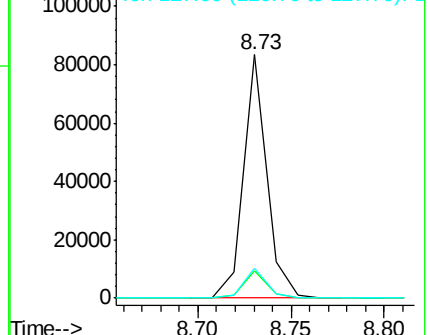
127 12.4 10.3 15.5

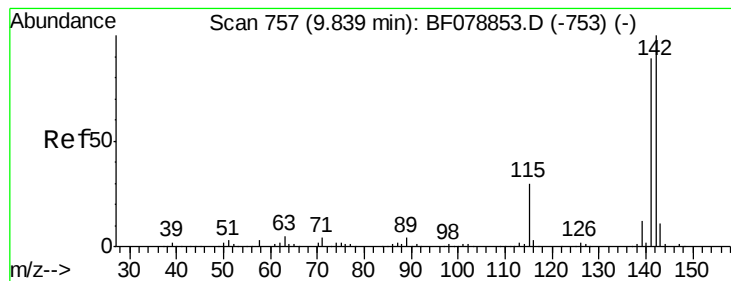


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#37

2-Methylnaphthalene

Concen: 3.58 ng

RT: 9.59 min Scan# 735

Delta R.T. 0.00 min

Lab File: BF079375.D

Acq: 20 May 2015 9:16

Instrument :

BNA_F

ClientSampleId :

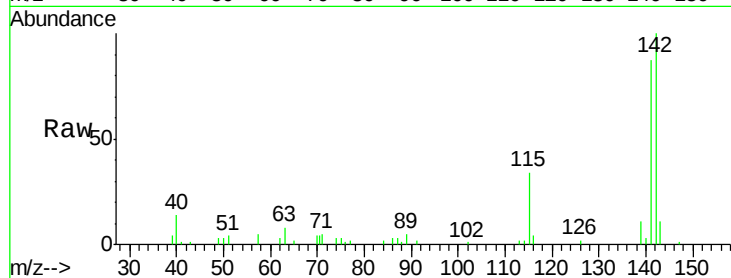
Tot Ion:142 Resp: 23242

Ion Ratio Lower Upper

142 100

141 87.2 71.6 107.4

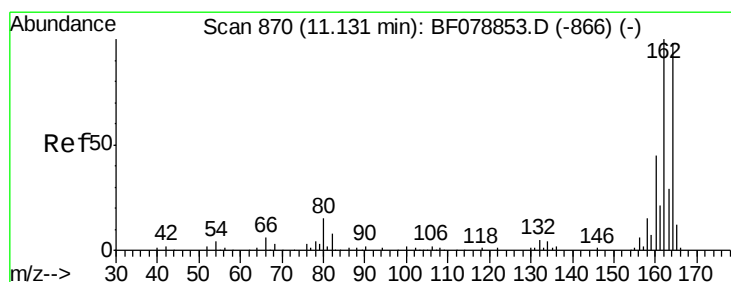
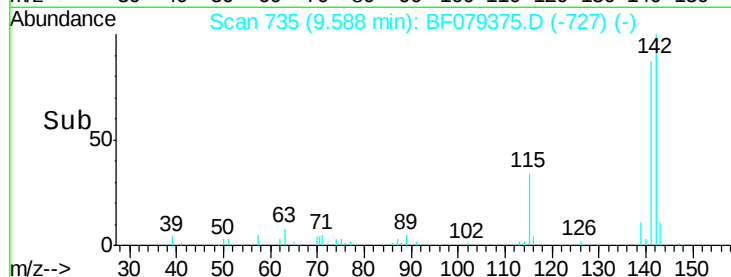
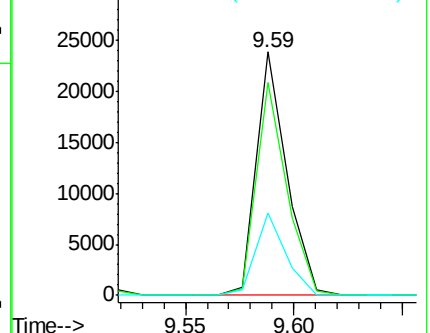
115 33.9 24.2 36.4



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 10.88 min Scan# 848

Delta R.T. 0.00 min

Lab File: BF079375.D

Acq: 20 May 2015 9:16

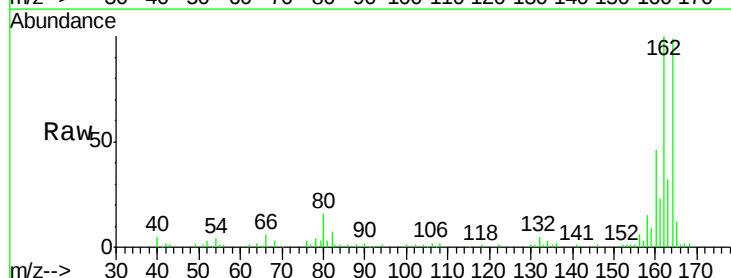
Tgt Ion:164 Resp: 92203

Ion Ratio Lower Upper

164 100

162 101.5 81.4 122.0

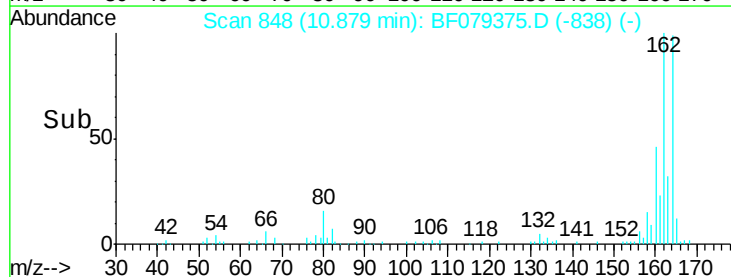
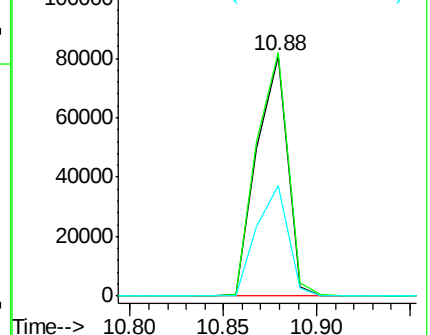
160 46.2 36.6 54.8

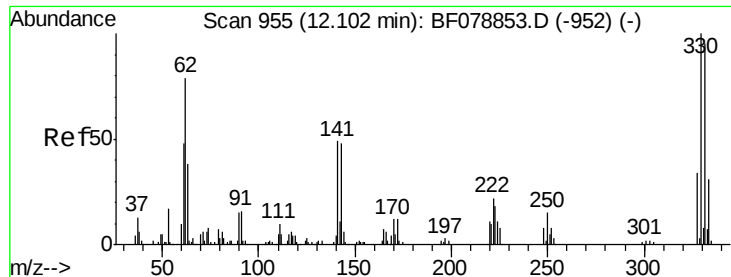


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

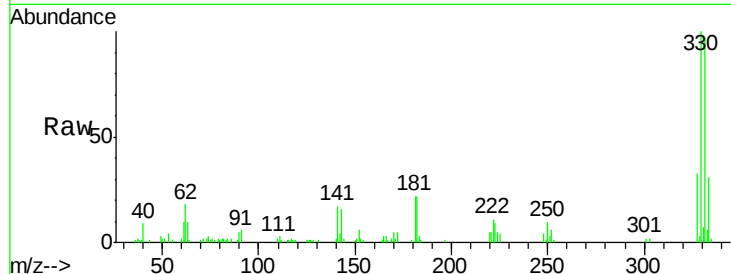




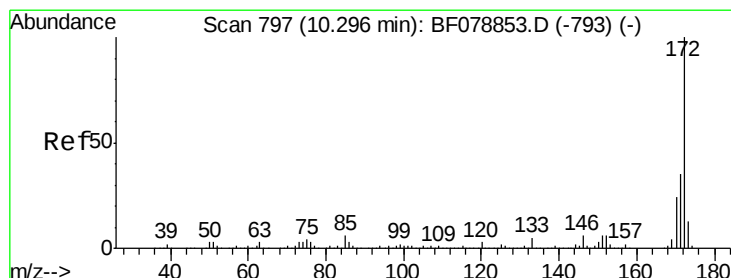
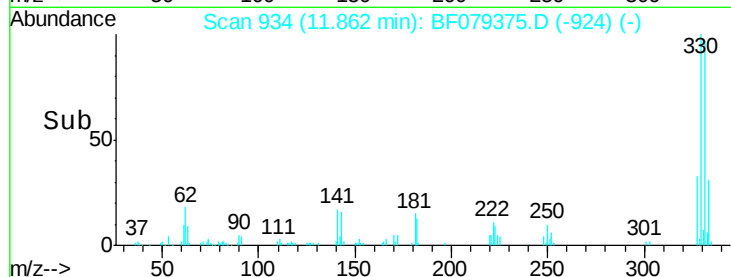
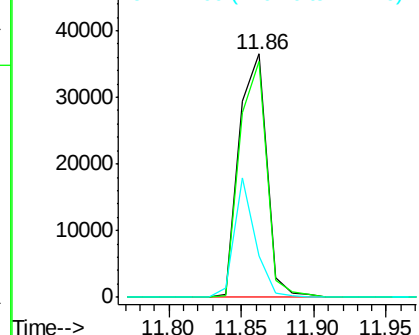
#41
 2,4,6-Tribromophenol
 Concen: 48.59 ng
 RT: 11.86 min Scan# 934
 Delta R.T. 0.00 min
 Lab File: BF079375.D
 Acq: 20 May 2015 9:16

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 48471
 Ion Ratio Lower Upper
 330 100
 332 94.9 76.9 115.3
 141 37.5 27.8 41.8

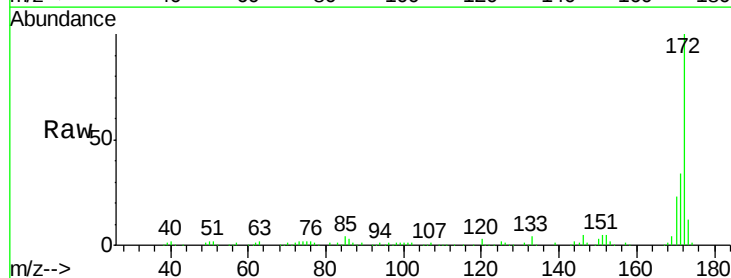


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

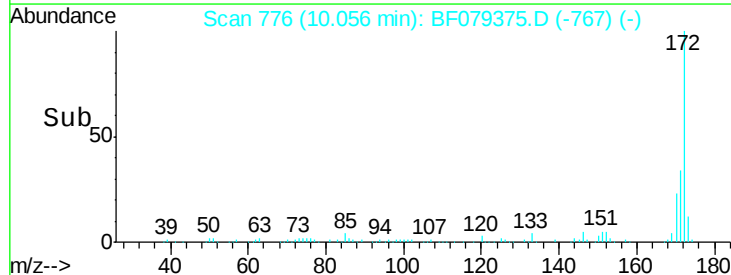
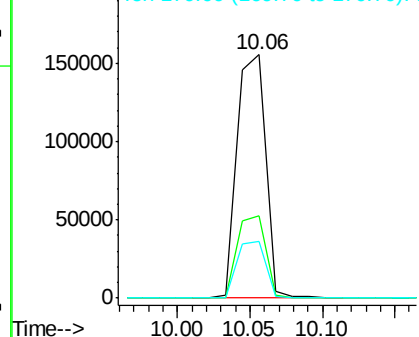


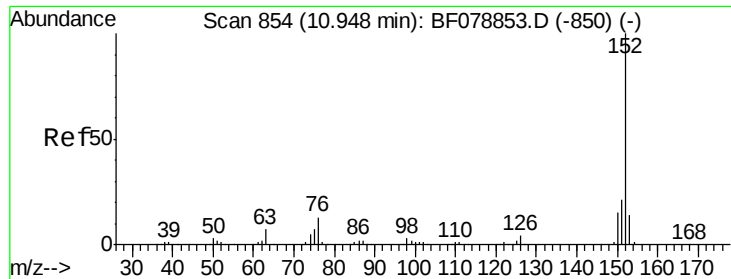
#44
 2-Fluorobiphenyl
 Concen: 32.20 ng
 RT: 10.06 min Scan# 776
 Delta R.T. 0.00 min
 Lab File: BF079375.D
 Acq: 20 May 2015 9:16

Tgt Ion:172 Resp: 213104
 Ion Ratio Lower Upper
 172 100
 171 33.7 28.3 42.5
 170 23.1 19.4 29.2



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#48

Acenaphthylene

Concen: 2.55 ng

RT: 10.70 min Scan# 832

Delta R.T. -0.01 min

Lab File: BF079375.D

Acq: 20 May 2015 9:16

Instrument :

BNA_F

ClientSampleId :

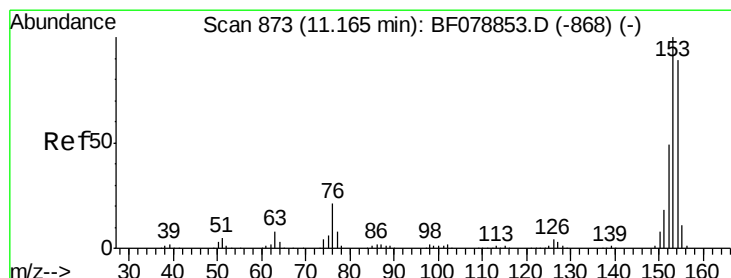
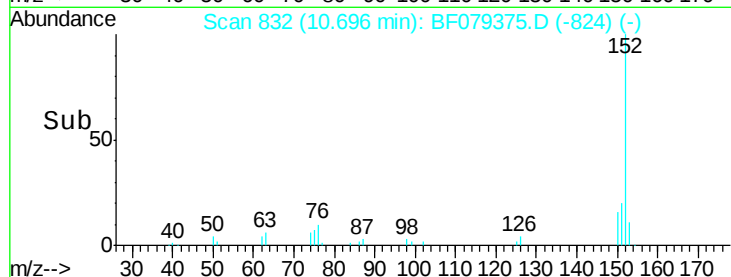
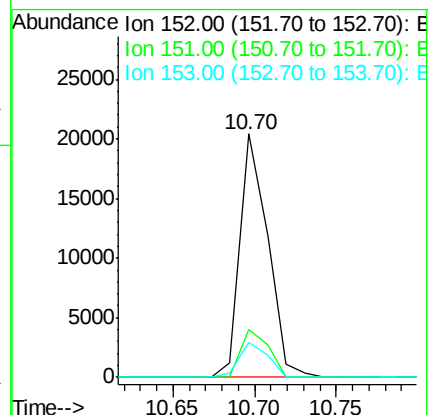
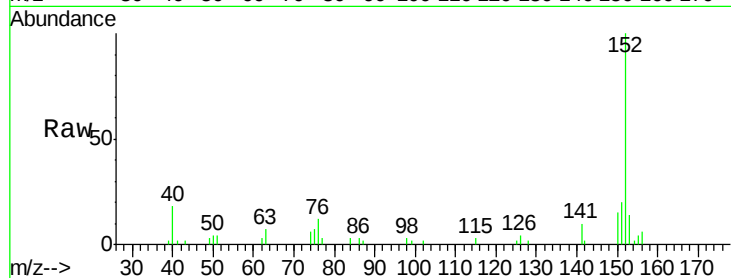
Tot Ion:152 Resp: 23911

Ion Ratio Lower Upper

152 100

151 19.5 16.6 24.8

153 14.3 11.0 16.6



#51

Acenaphthene

Concen: 6.38 ng

RT: 10.91 min Scan# 851

Delta R.T. 0.00 min

Lab File: BF079375.D

Acq: 20 May 2015 9:16

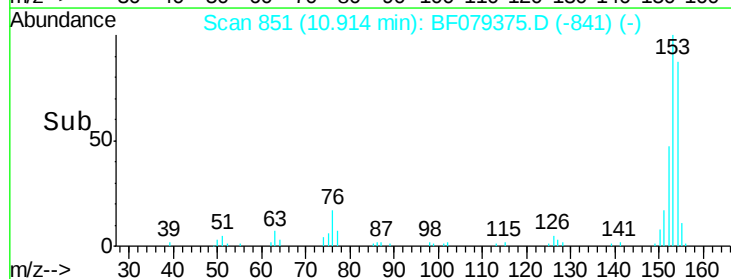
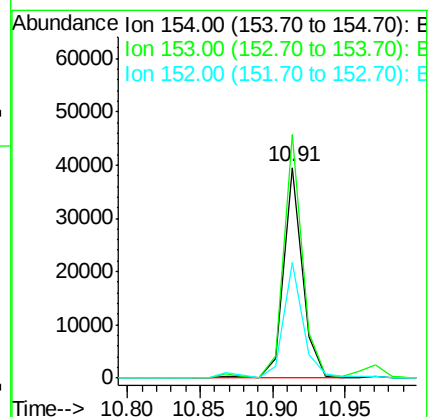
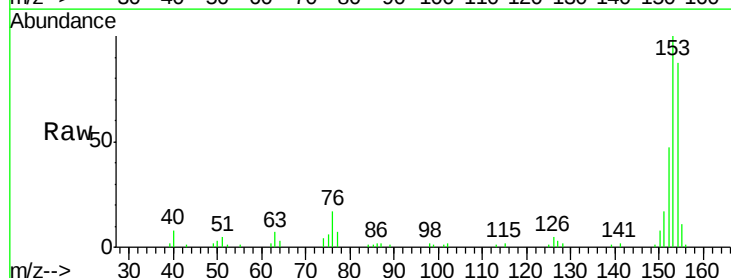
Tgt Ion:154 Resp: 35706

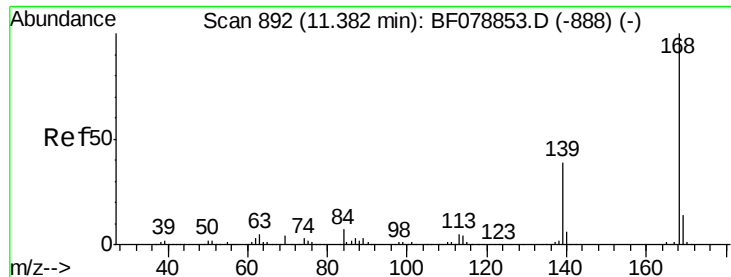
Ion Ratio Lower Upper

154 100

153 115.5 90.2 135.2

152 54.8 43.8 65.8

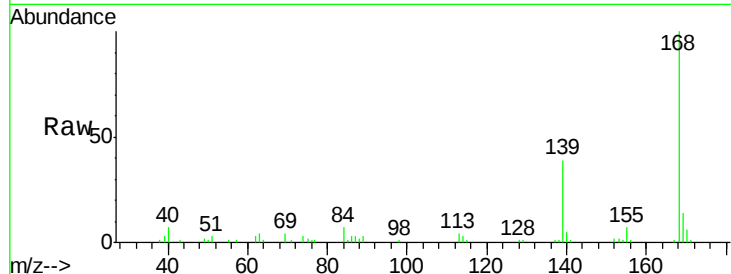




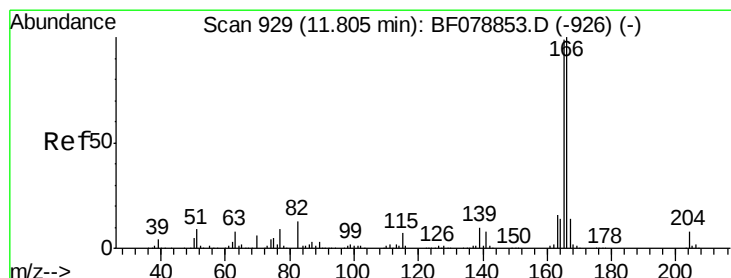
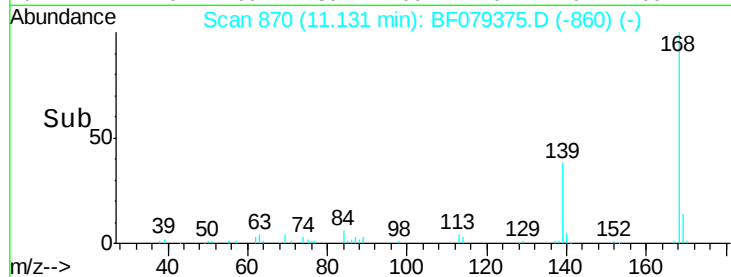
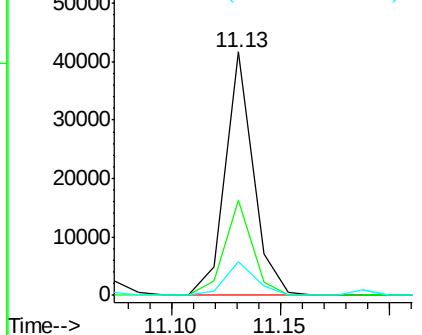
#54
Dibenzenofuran
Concen: 4.59 ng
RT: 11.13 min Scan# 870
Delta R.T. 0.00 min
Lab File: BF079375.D
Acq: 20 May 2015 9:16

Instrument :
BNA_F
ClientSampled :

Tot Ion:168 Resp: 37133
Ion Ratio Lower Upper
168 100
139 39.3 31.5 47.3
169 13.9 11.0 16.4

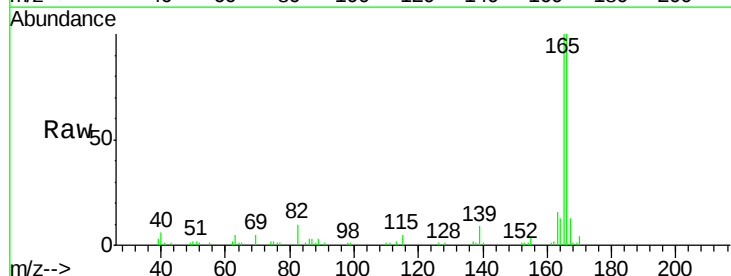


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

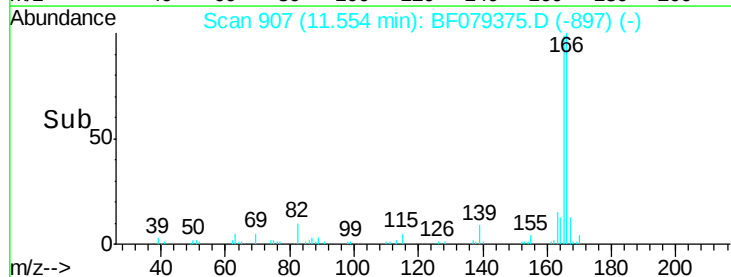
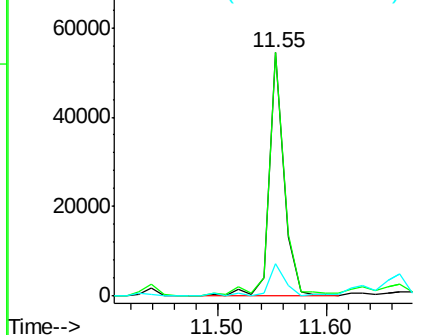


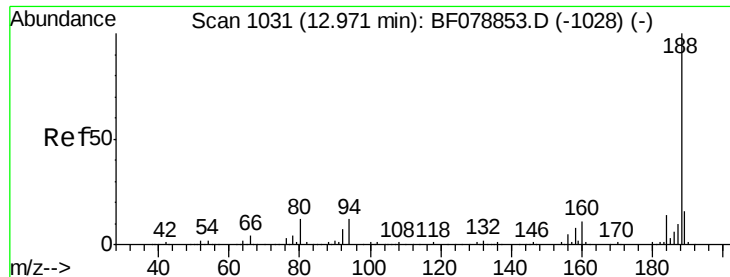
#57
Fluorene
Concen: 7.82 ng
RT: 11.55 min Scan# 907
Delta R.T. 0.00 min
Lab File: BF079375.D
Acq: 20 May 2015 9:16

Tgt Ion:166 Resp: 51905
Ion Ratio Lower Upper
166 100
165 100.1 79.5 119.3
167 13.5 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

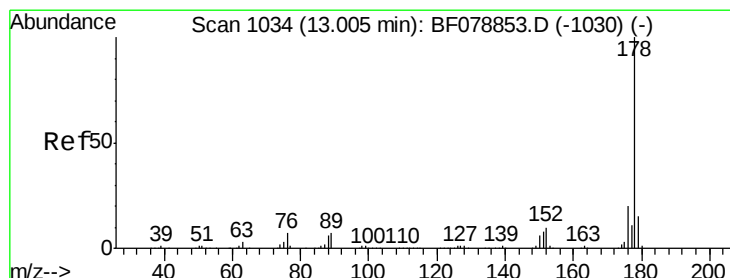
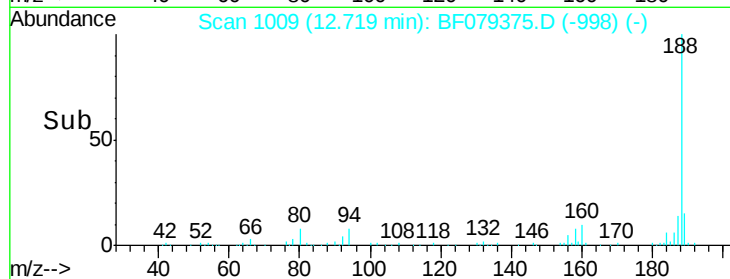
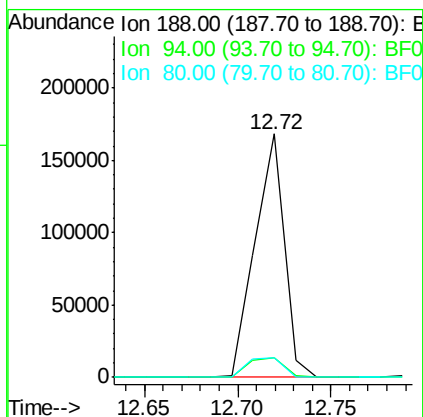
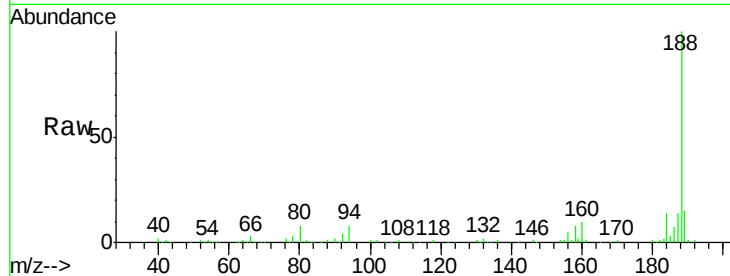




#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 12.72 min Scan# 1009
 Delta R.T. 0.00 min
 Lab File: BF079375.D
 Acq: 20 May 2015 9:16

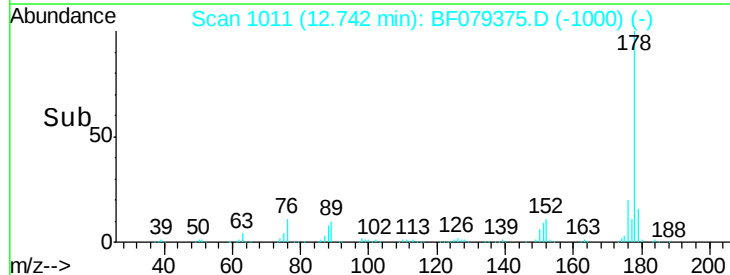
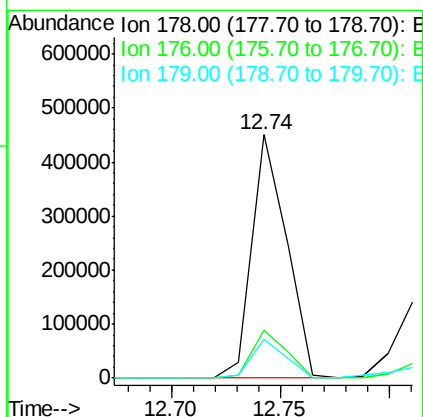
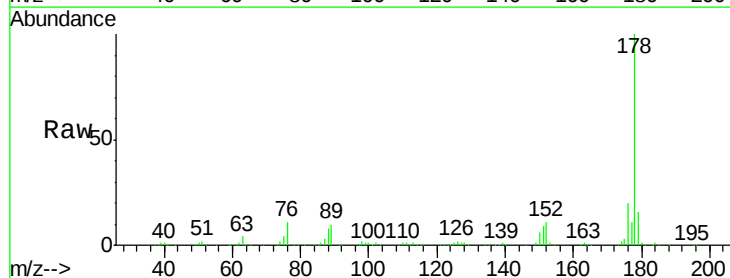
Instrument :
 BNA_F
 ClientSampleId :

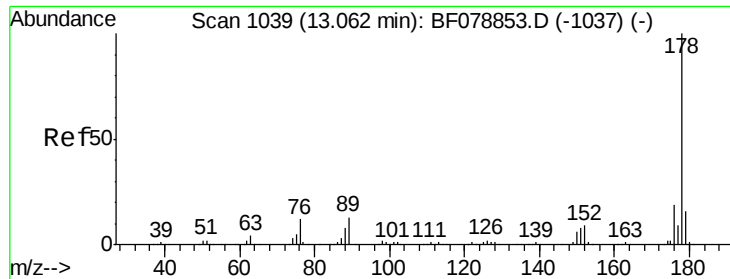
Tot Ion:188 Resp: 182526
 Ion Ratio Lower Upper
 188 100
 94 8.0 9.4 14.0#
 80 8.1 9.8 14.6#



#70
 Phenanthrene
 Concen: 49.14 ng
 RT: 12.74 min Scan# 1011
 Delta R.T. 0.00 min
 Lab File: BF079375.D
 Acq: 20 May 2015 9:16

Tgt Ion:178 Resp: 501813
 Ion Ratio Lower Upper
 178 100
 176 19.8 15.9 23.9
 179 15.7 12.2 18.4

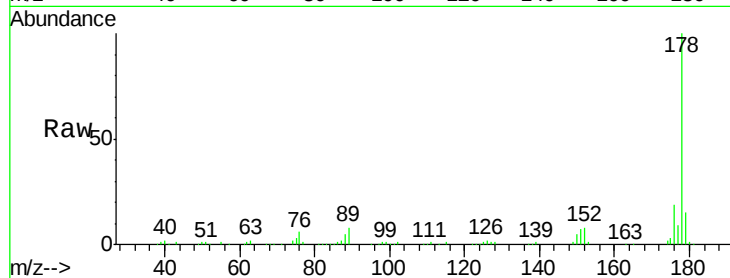




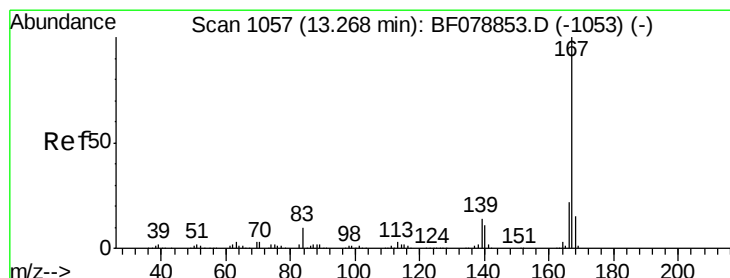
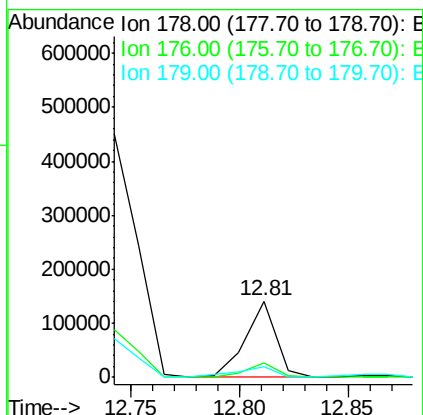
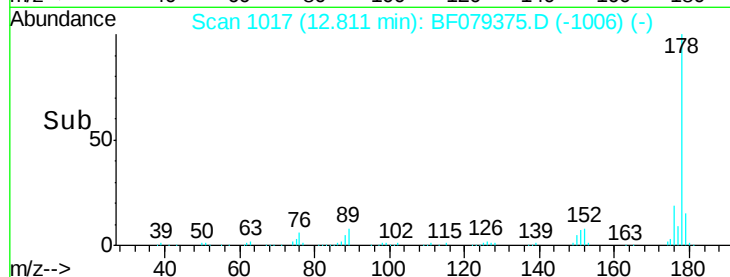
#71
 Anthracene
 Concen: 13.72 ng
 RT: 12.81 min Scan# 1017
 Delta R.T. 0.00 min
 Lab File: BF079375.D
 Acq: 20 May 2015 9:16

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:178 Resp: 137402
 Ion Ratio Lower Upper
 178 100
 176 18.7 15.3 22.9
 179 14.8 12.6 19.0

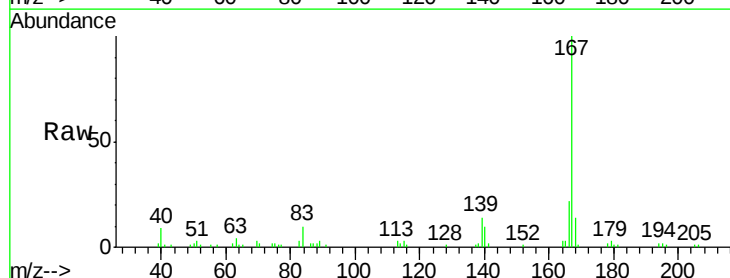


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

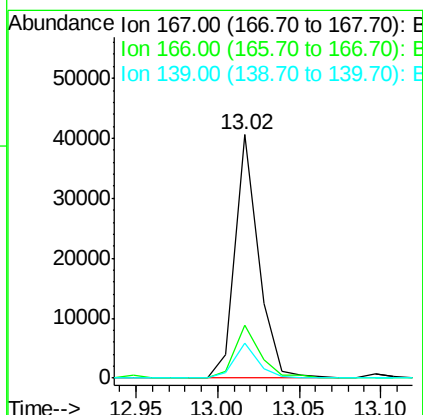
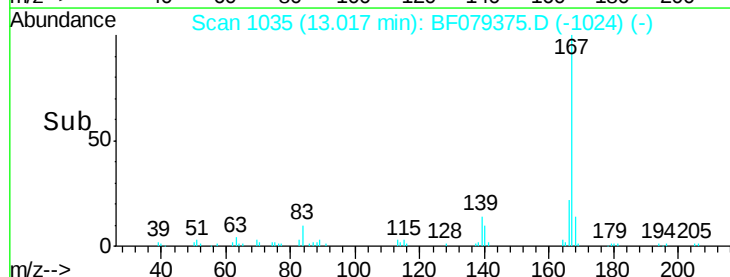


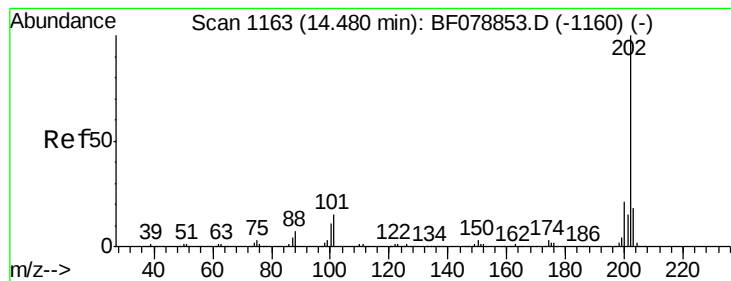
#72
 Carbazole
 Concen: 4.22 ng
 RT: 13.02 min Scan# 1035
 Delta R.T. 0.00 min
 Lab File: BF079375.D
 Acq: 20 May 2015 9:16

Tgt Ion:167 Resp: 40297
 Ion Ratio Lower Upper
 167 100
 166 21.8 17.5 26.3
 139 14.1 11.0 16.4



Abundance Ion 167.00 (166.70 to 167.70): E
 Ion 166.00 (165.70 to 166.70): E
 Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 42.70 ng

RT: 14.22 min Scan# 1140

Delta R.T. -0.01 min

Lab File: BF079375.D

Acq: 20 May 2015 9:16

Instrument :

BNA_F

ClientSampleId :

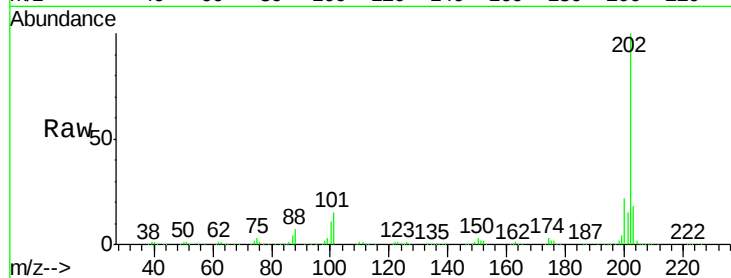
Tot Ion:202 Resp: 454291

Ion Ratio Lower Upper

202 100

101 15.3 0.0 34.7

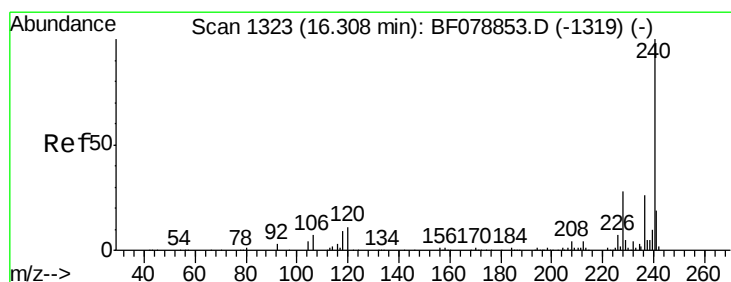
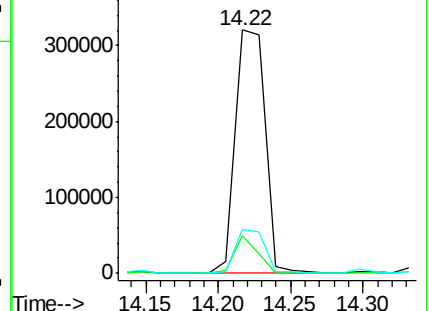
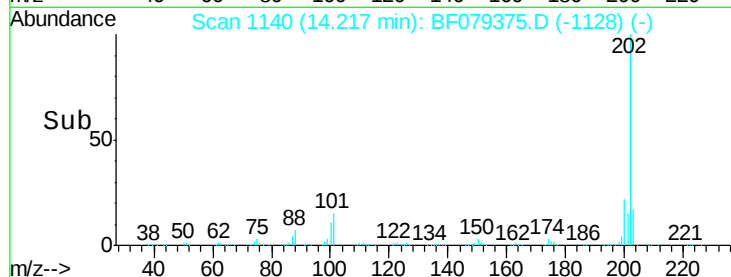
203 18.0 0.0 37.9



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: 16.01 min Scan# 1297

Delta R.T. -0.01 min

Lab File: BF079375.D

Acq: 20 May 2015 9:16

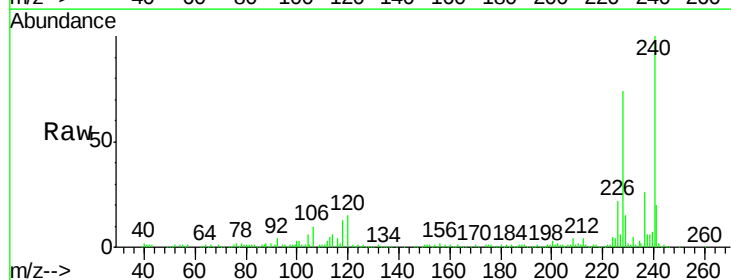
Tgt Ion:240 Resp: 195134

Ion Ratio Lower Upper

240 100

120 15.3 8.6 12.8#

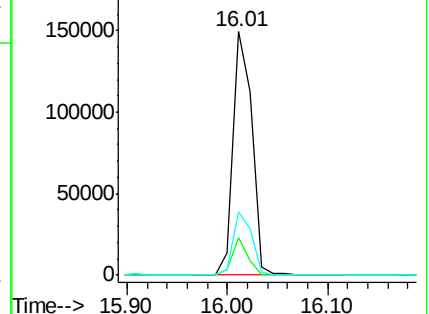
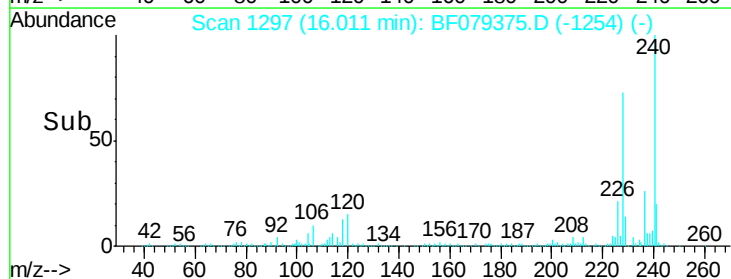
236 26.2 21.0 31.6

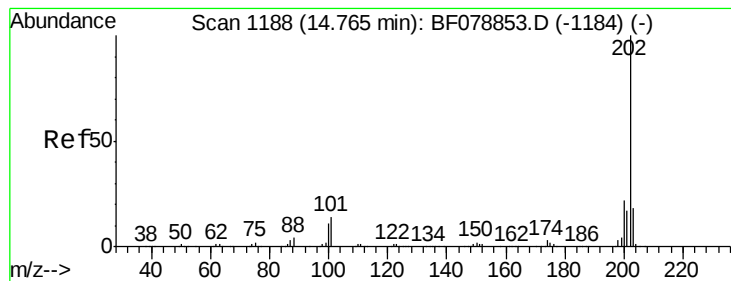


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 39.22 ng

RT: 14.50 min Scan# 1165

Delta R.T. 0.00 min

Lab File: BF079375.D

Acq: 20 May 2015 9:16

Instrument :

BNA_F

ClientSampleId :

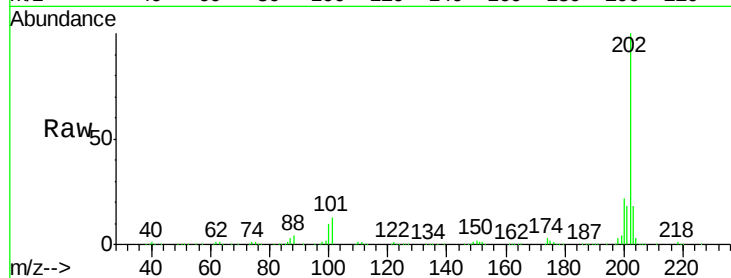
Tot Ion:202 Resp: 441043

Ion Ratio Lower Upper

202 100

200 21.7 17.5 26.3

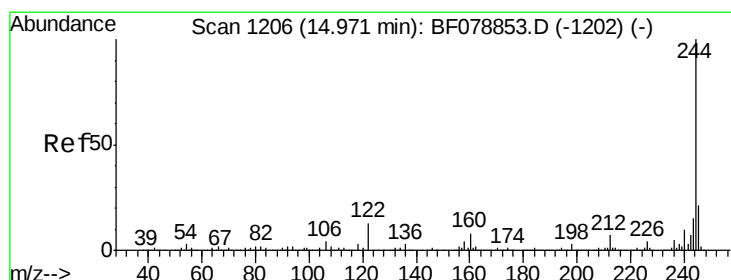
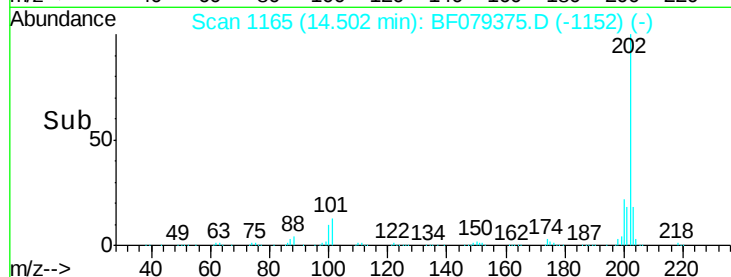
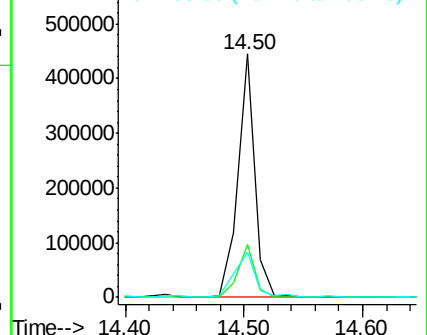
203 18.4 14.7 22.1



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: 30.51 ng

RT: 14.71 min Scan# 1183

Delta R.T. -0.01 min

Lab File: BF079375.D

Acq: 20 May 2015 9:16

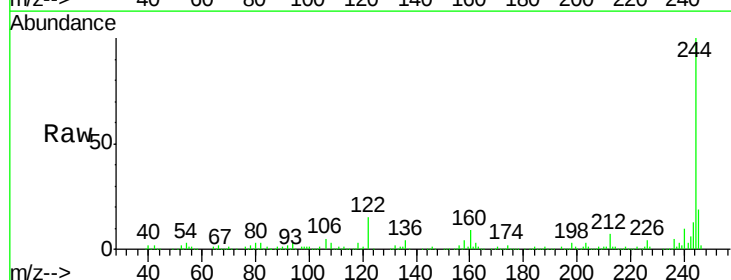
Tgt Ion:244 Resp: 248683

Ion Ratio Lower Upper

244 100

212 7.0 5.6 8.4

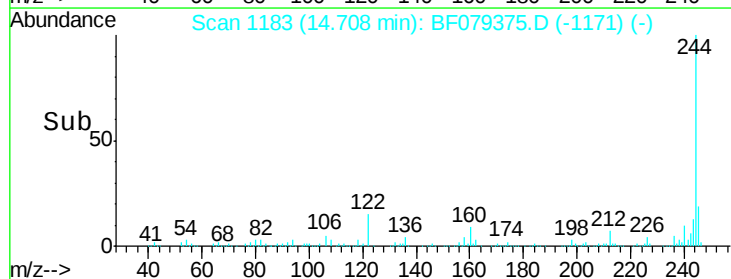
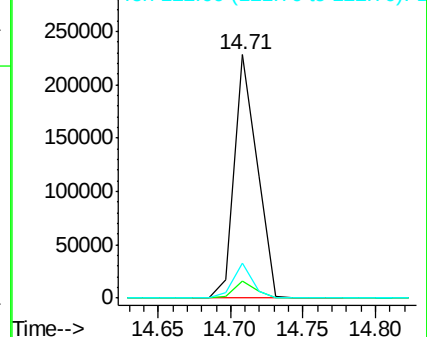
122 14.5 10.5 15.7

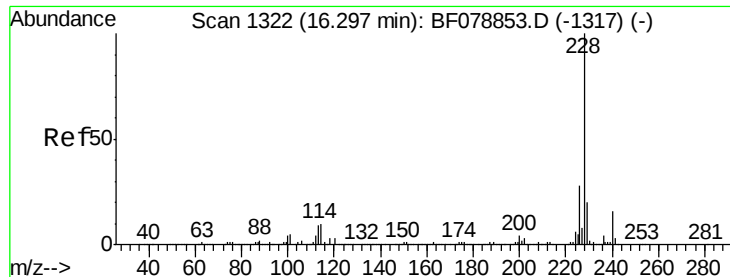


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 17.20 ng

RT: 16.05 min Scan# 1300

Delta R.T. 0.03 min

Lab File: BF079375.D

Acq: 20 May 2015 9:16

Instrument :

BNA_F

ClientSampleId :

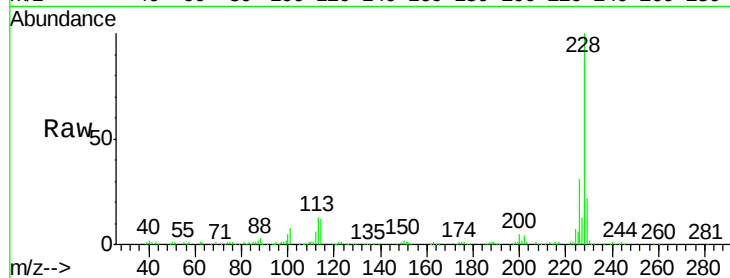
Tot Ion:228 Resp: 183815

Ion Ratio Lower Upper

228 100

226 31.1 22.3 33.5

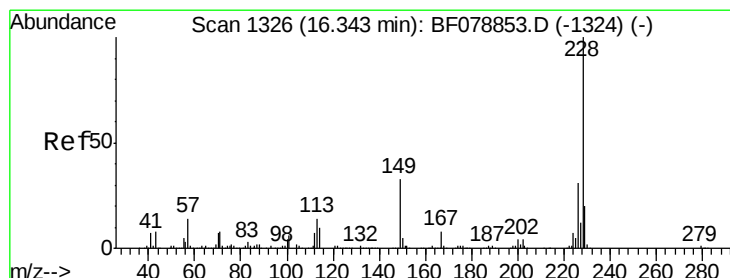
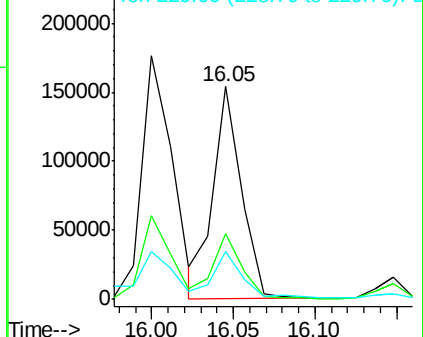
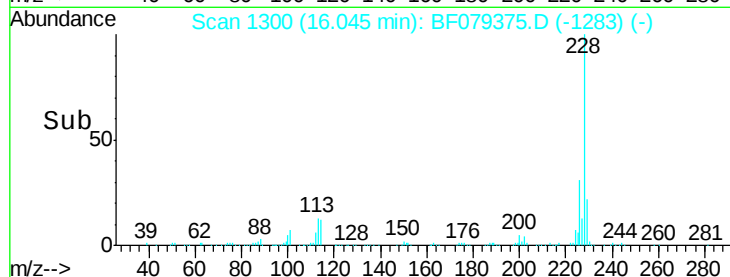
229 22.4 16.1 24.1



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: 17.79 ng

RT: 16.05 min Scan# 1300

Delta R.T. -0.01 min

Lab File: BF079375.D

Acq: 20 May 2015 9:16

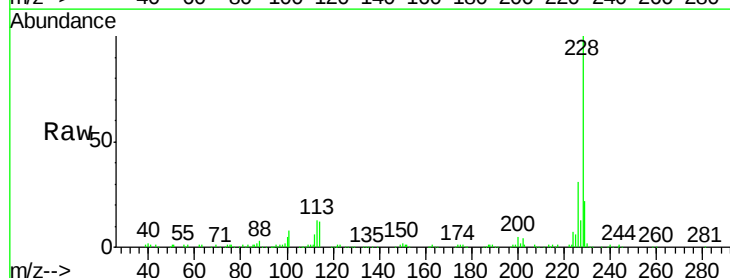
Tgt Ion:228 Resp: 182855

Ion Ratio Lower Upper

228 100

226 31.1 24.8 37.2

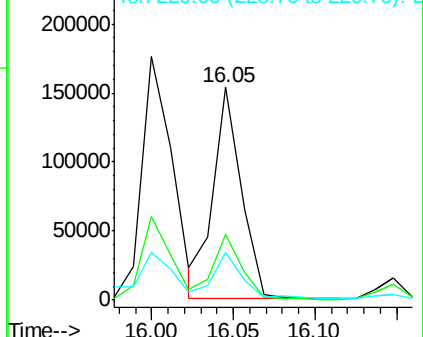
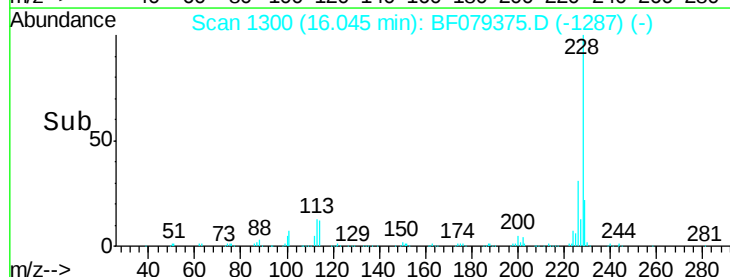
229 22.4 16.1 24.1

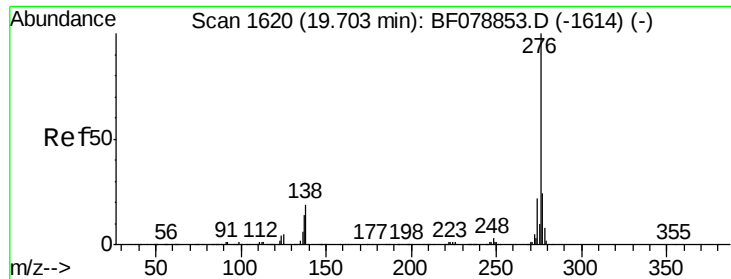


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

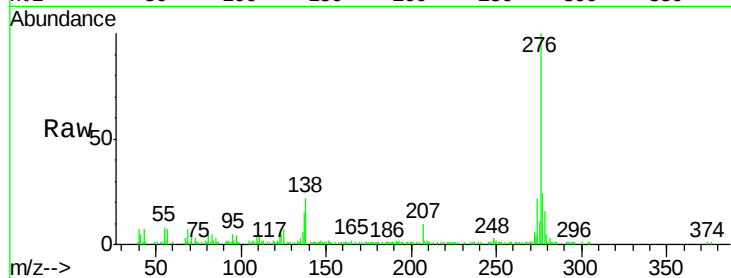




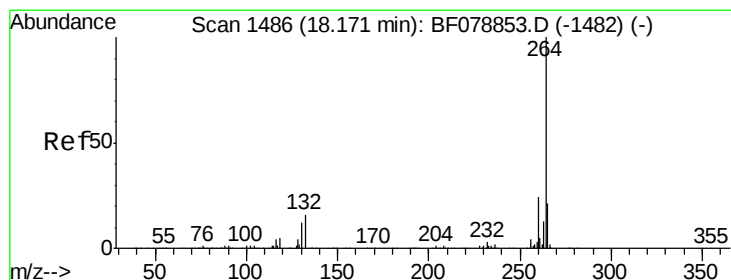
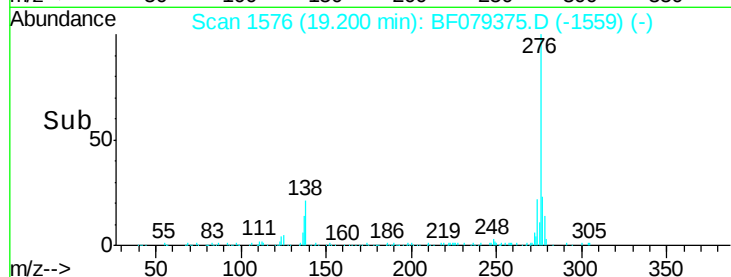
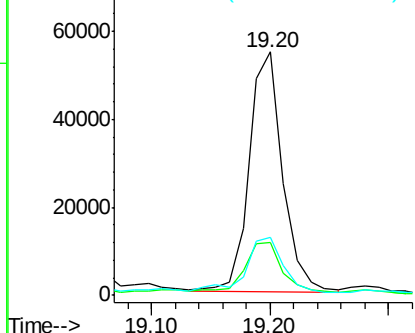
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 8.14 ng
 RT: 19.20 min Scan# 1576
 Delta R.T. -0.01 min
 Lab File: BF079375.D
 Acq: 20 May 2015 9:16

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
138	24.3	21.1	31.7
277	26.6	19.9	29.9

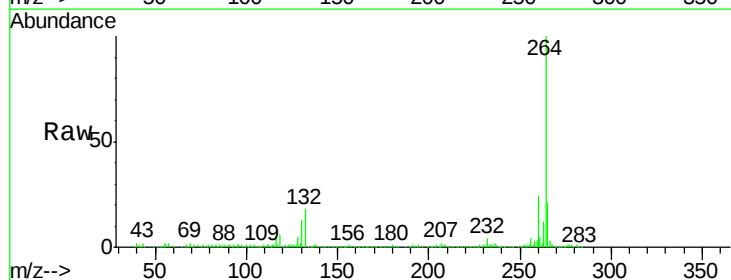


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

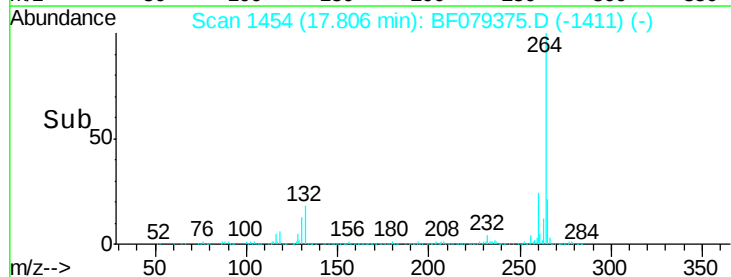
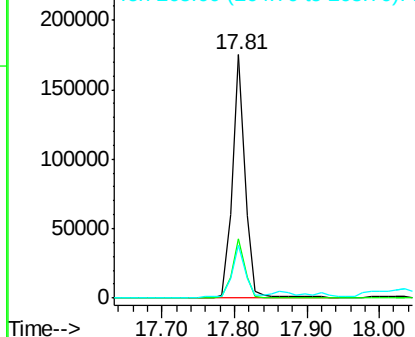


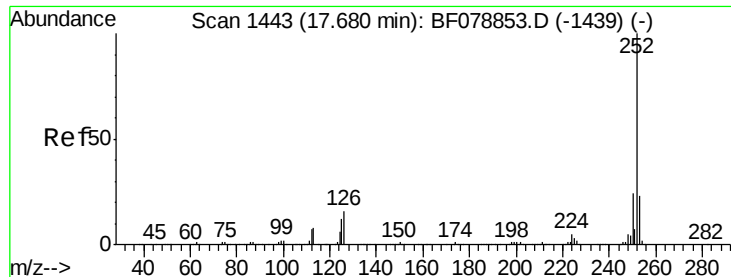
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 17.81 min Scan# 1454
 Delta R.T. -0.01 min
 Lab File: BF079375.D
 Acq: 20 May 2015 9:16

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.2	28.8
265	21.5	17.2	25.8



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: 25.99 ng

RT: 17.35 min Scan# 1414

Delta R.T. 0.00 min

Lab File: BF079375.D

Acq: 20 May 2015 9:16

Instrument :

BNA_F

ClientSampleId :

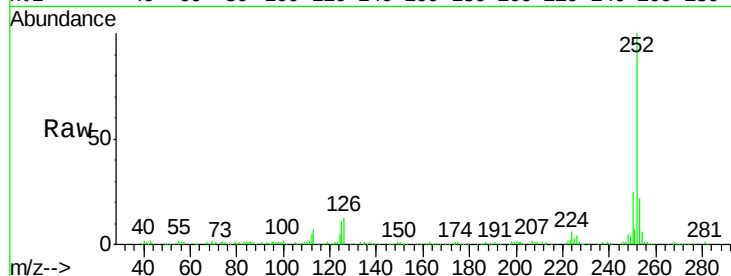
Tot Ion:252 Resp: 306276

Ion Ratio Lower Upper

252 100

253 22.2 18.1 27.1

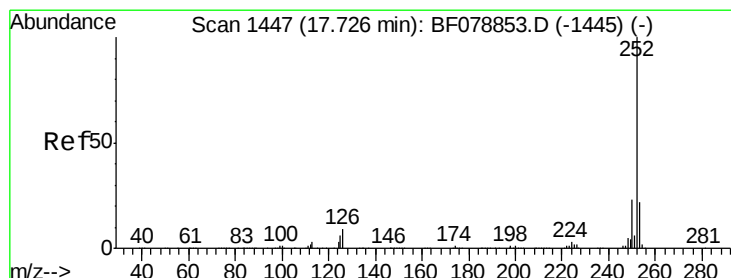
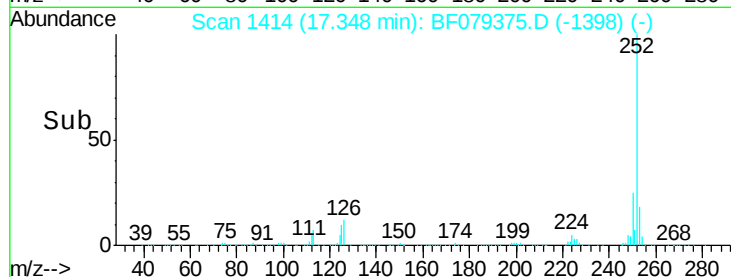
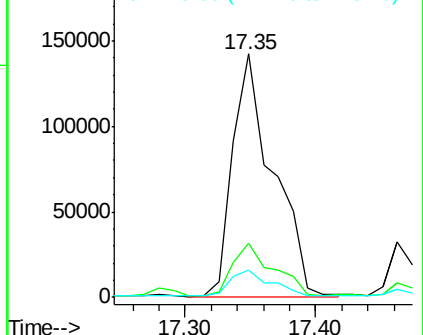
125 11.0 9.4 14.2



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: 26.85 ng

RT: 17.35 min Scan# 1414

Delta R.T. -0.03 min

Lab File: BF079375.D

Acq: 20 May 2015 9:16

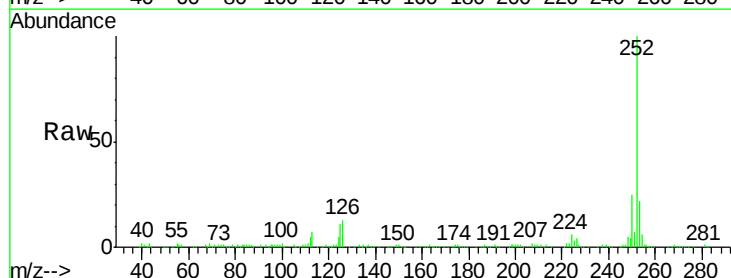
Tgt Ion:252 Resp: 306276

Ion Ratio Lower Upper

252 100

253 22.2 17.4 26.0

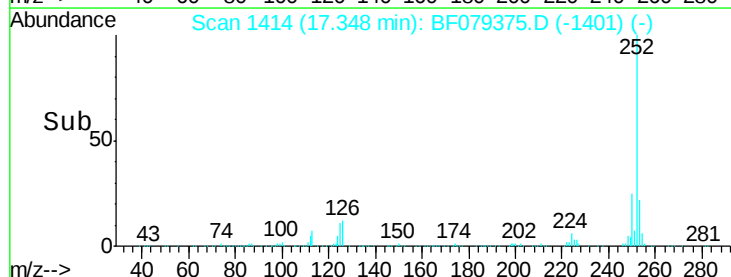
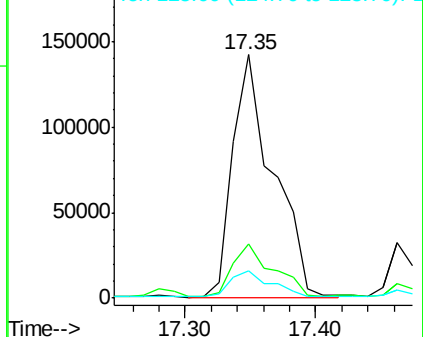
125 11.0 6.1 9.1#

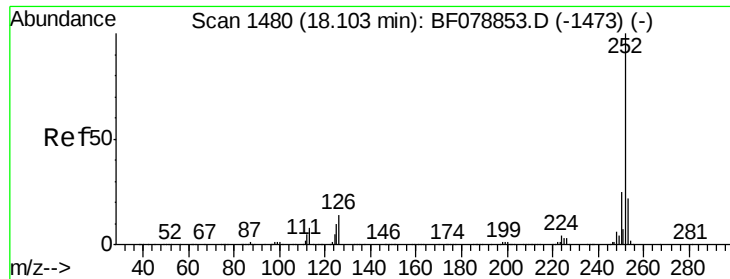


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 16.38 ng

RT: 17.74 min Scan# 1448

Delta R.T. -0.01 min

Lab File: BF079375.D

Acq: 20 May 2015 9:16

Instrument :

BNA_F

ClientSampleId :

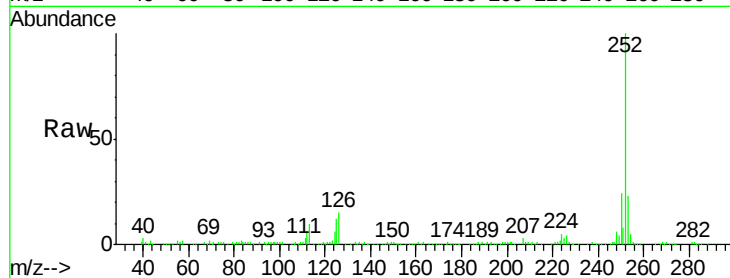
Tot Ion:252 Resp: 177759

Ion Ratio Lower Upper

252 100

253 22.8 18.0 27.0

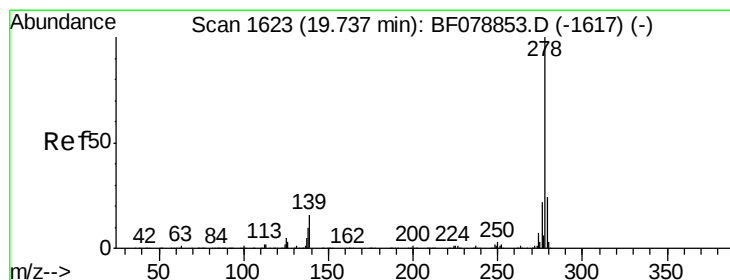
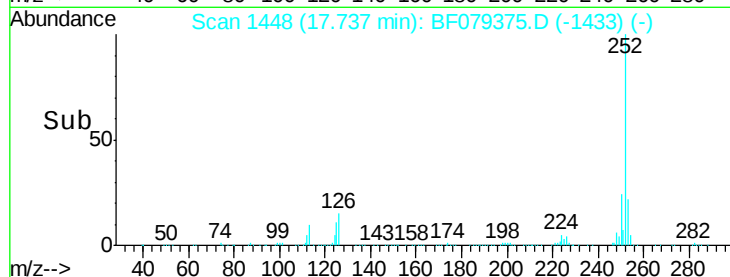
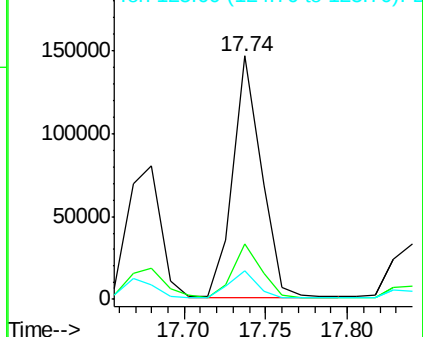
125 11.8 8.2 12.2



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



#90

Dibenzo(a,h)anthracene

Concen: 2.20 ng

RT: 19.21 min Scan# 1577

Delta R.T. -0.03 min

Lab File: BF079375.D

Acq: 20 May 2015 9:16

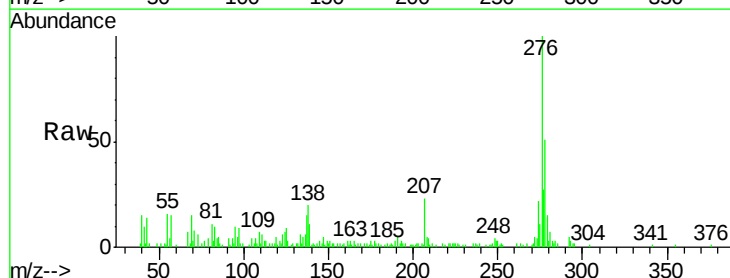
Tgt Ion:278 Resp: 25410

Ion Ratio Lower Upper

278 100

139 21.5 13.1 19.7#

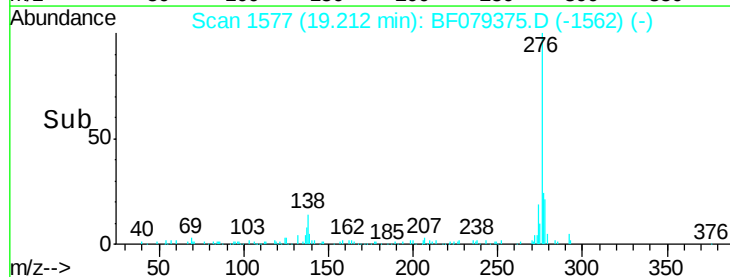
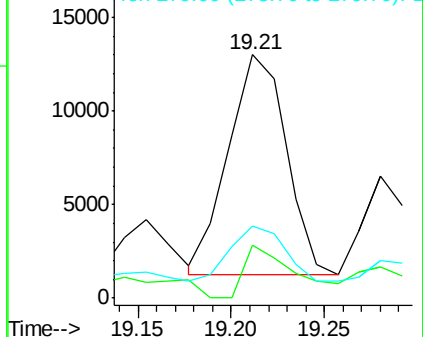
279 29.5 19.1 28.7#

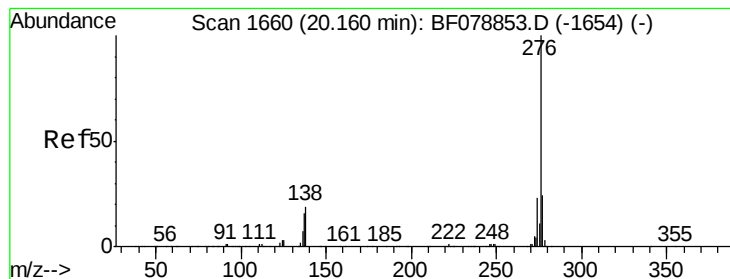


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E

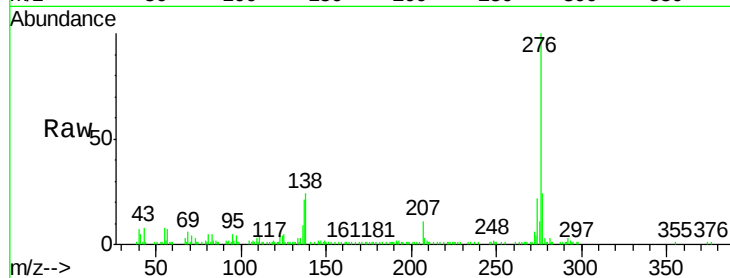




#91
 Benzo(a,h,i)perylene
 Concen: 8.93 ng
 RT: 19.60 min Scan# 1611
 Delta R.T. -0.02 min
 Lab File: BF079375.D
 Acq: 20 May 2015 9:16

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.6	18.8	28.2
138	23.8	15.2	22.8



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

