

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052215\
 Data File : BF079465.D
 Acq On : 23 May 2015 9:21
 Operator : TP/IZ
 Sample : G2289-12 5X
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-31D

Quant Time: May 25 07:01:13 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 25 06:56:43 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.05	152	70759	20.00	ng	0.00
21) Naphthalene-d8	8.63	136	293586	20.00	ng	0.00
38) Acenaphthene-d10	10.80	164	139082	20.00	ng	0.00
63) Phenanthrene-d10	12.64	188	255332	20.00	ng	0.01
75) Chrysene-d12	15.92	240	257988	20.00	ng	0.01
86) Perylene-d12	17.70	264	254120	20.00	ng	0.09

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ng	
7) Phenol-d6	0.00	99	0	0.00	ng	
23) Nitrobenzene-d5	7.75	82	34855	6.82	ng	0.00
41) 2,4,6-Tribromophenol	11.78	330	22352	14.86	ng	0.00
44) 2-Fluorobiphenyl	9.98	172	143985	14.42	ng	0.00
78) Terphenyl-d14	14.63	244	152674	14.17	ng	0.00

Target Compounds

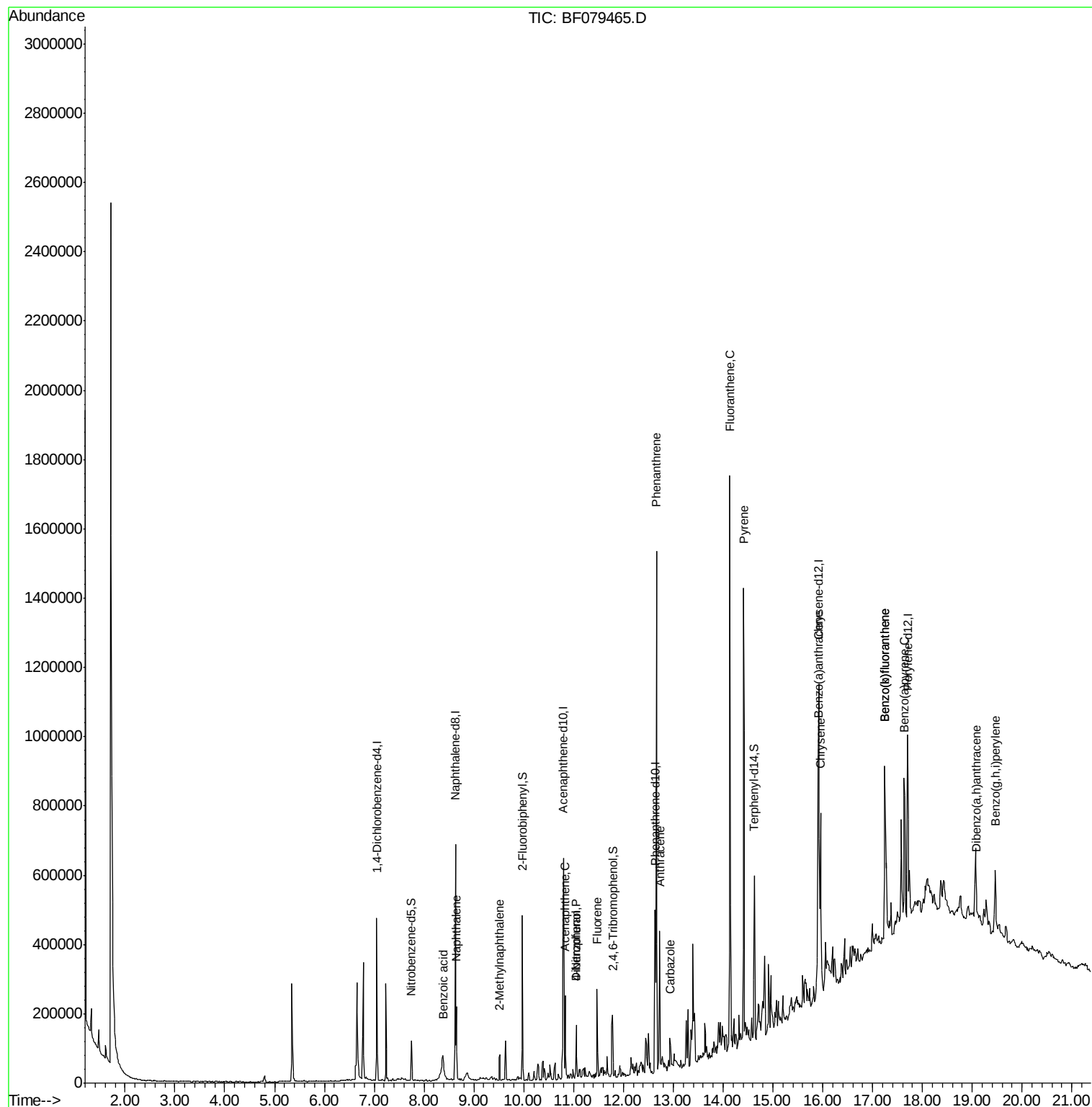
						Qvalue
31) Naphthalene	8.65	128	100513	7.19	ng	98
32) Benzoic acid	8.39	122	442	6.46	ng	# 46
37) 2-Methylnaphthalene	9.52	142	30029	3.10	ng	97
51) Acenaphthene	10.83	154	53718	6.36	ng	98
54) Dibenzofuran	11.05	168	59962	4.92	ng	99
55) 4-Nitrophenol	11.05	139	23465	11.78	ng	# 1
57) Fluorene	11.47	166	73820	7.37	ng	99
70) Phenanthrene	12.66	178	598011	41.86	ng	99
71) Anthracene	12.73	178	202889	14.48	ng	98
72) Carbazole	12.94	167	46566	3.49	ng	98
74) Fluoranthene	14.14	202	690921	46.42	ng	99
77) Pyrene	14.41	202	674928	45.40	ng	# 95
80) Benzo(a)anthracene	15.91	228	315540	22.33	ng	98
82) Chrysene	15.95	228	249185	18.34	ng	98
87) Benzo(b)fluoranthene	17.25	252	424464	30.52	ng	100
88) Benzo(k)fluoranthene	17.25	252	424464	31.52	ng	# 96
89) Benzo(a)pyrene	17.63	252	248482	19.40	ng	# 93
90) Dibenzo(a,h)anthracene	19.09	278	40773	3.00	ng	# 82
91) Benzo(g,h,i)perylene	19.46	276	153095	11.22	ng	98

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

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052215\
Data File : BF079465.D
Acq On : 23 May 2015 9:21
Operator : TP/IZ
Sample : G2289-12 5X
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampled :
SB-31D

Quant Time: May 25 07:01:13 2015
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 25 06:56:43 2015
Response via : Initial Calibration

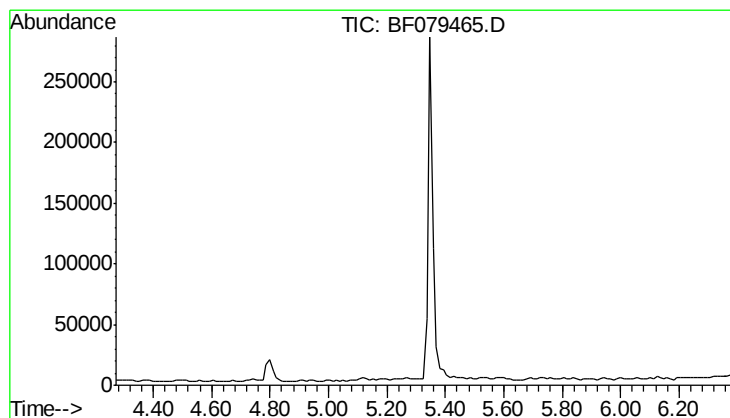
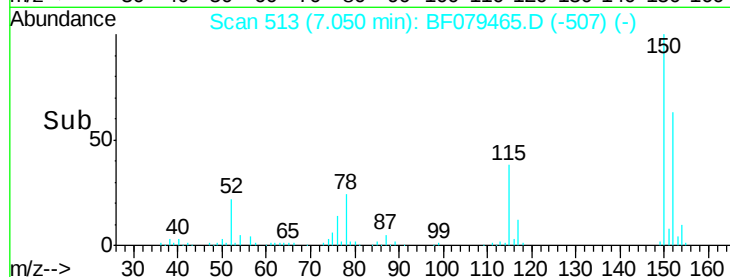
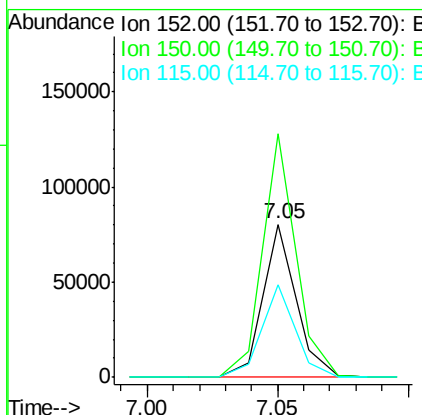
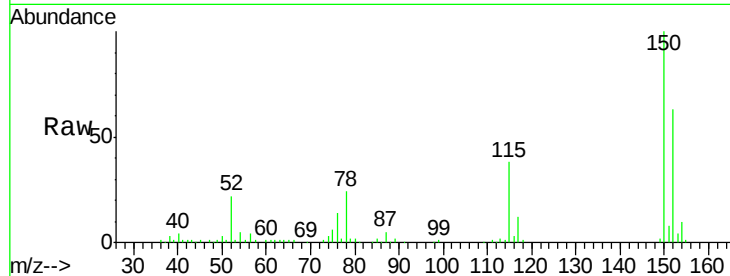




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 7.05 min Scan# 513
 Delta R.T. -0.00 min
 Lab File: BF079465.D
 Acq: 23 May 2015 9:21

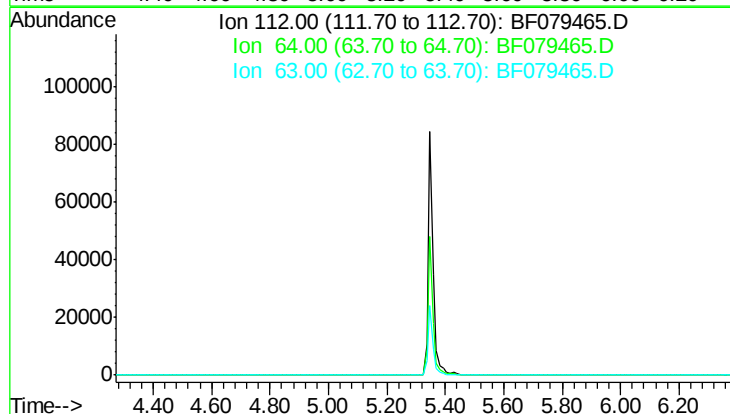
Instrument :
 BNA_F
 ClientSampleId :
 SB-31D

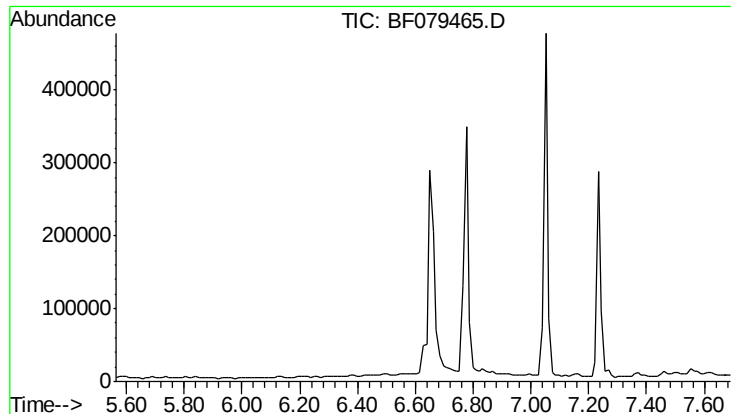
Tgt Ion	Ratio	Lower	Upper
152	100		
150	158.8	123.8	185.8
115	60.5	49.4	74.0



#5
 2-Fluorophenol
 Concen: 0.00 ng
 Expected RT: 5.32 min
 Lab File: BF079465.D
 Acq: 23 May 2015 9:21

Tgt Ion	Sig	Exp Ratio
112	100	
64	55.2	
63	28.4	





#7

Phenol-d6

Concen: 0.00 ng

Expected RT: 6.63 min

Lab File: BF079465.D

Acq: 23 May 2015 9:21

Instrument :

BNA_F

ClientSampleId :

SB-31D

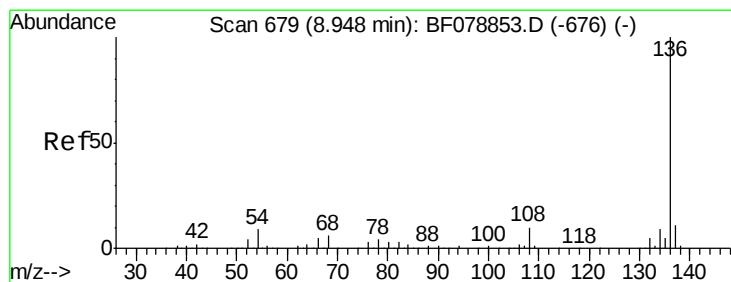
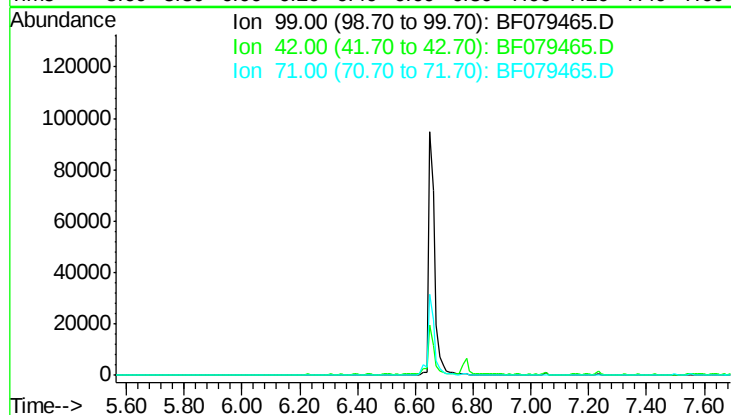
Tgt Ion: 99

Sig Exp Ratio

99 100

42 21.4

71 32.9



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.63 min Scan# 651

Delta R.T. -0.00 min

Lab File: BF079465.D

Acq: 23 May 2015 9:21

Tgt Ion: 136 Resp: 293586

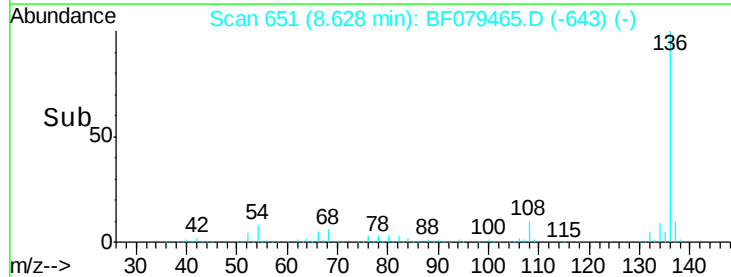
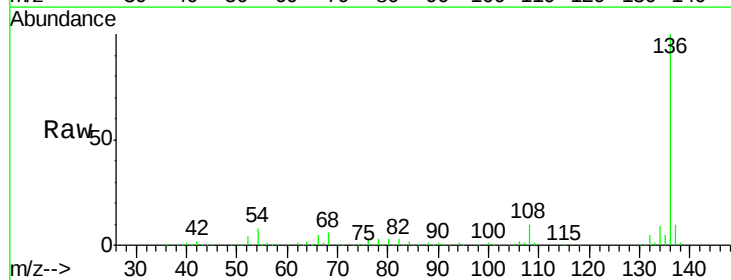
Ion Ratio Lower Upper

136 100

137 10.5 8.8 13.2

54 7.5 6.9 10.3

68 5.7 4.9 7.3

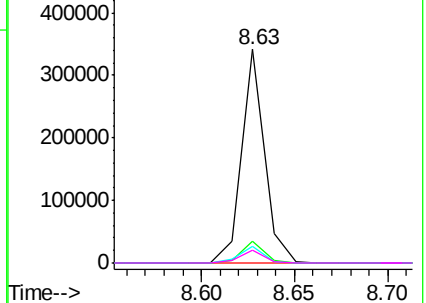


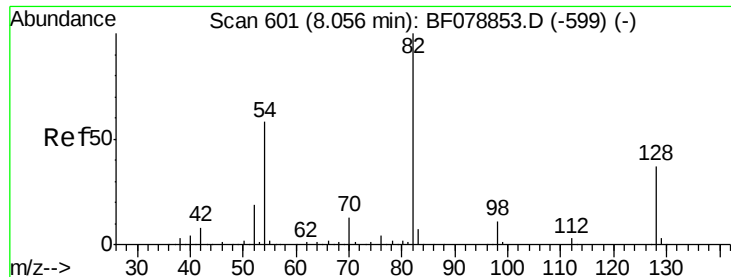
Abundance Ion 136.00 (135.70 to 136.70): E

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

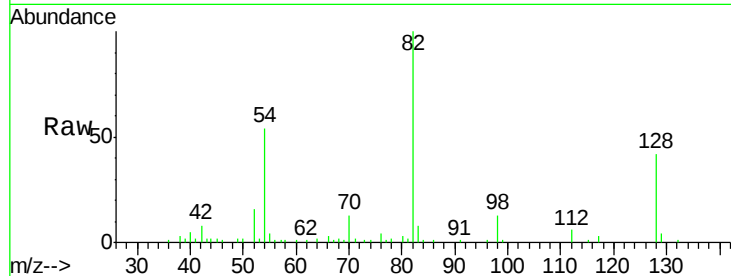




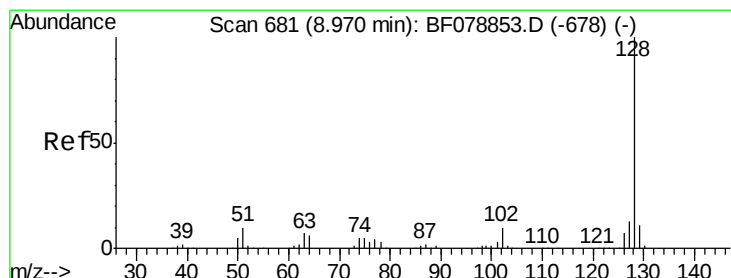
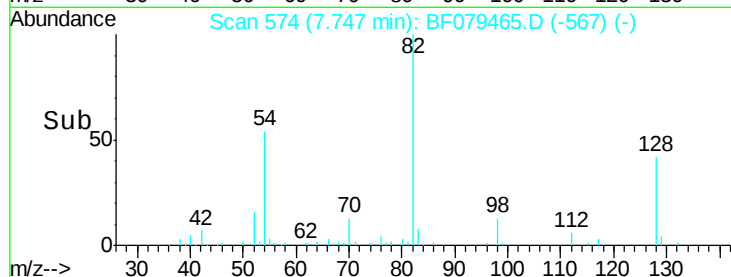
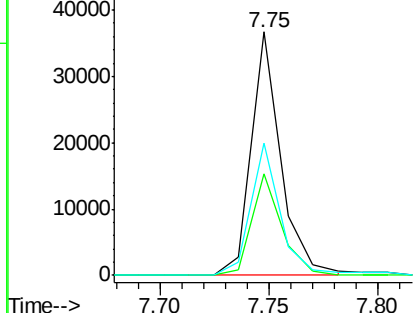
#23
 Nitrobenzene-d5
 Concen: 6.82 ng
 RT: 7.75 min Scan# 574
 Delta R.T. -0.00 min
 Lab File: BF079465.D
 Acq: 23 May 2015 9:21

Instrument :
 BNA_F
 ClientSampleId :
 SB-31D

Tgt Ion	Ratio	Lower	Upper
82	100		
128	41.7	29.7	44.5
54	54.2	46.2	69.4

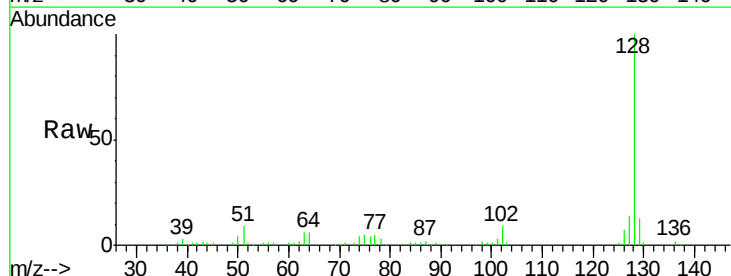


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

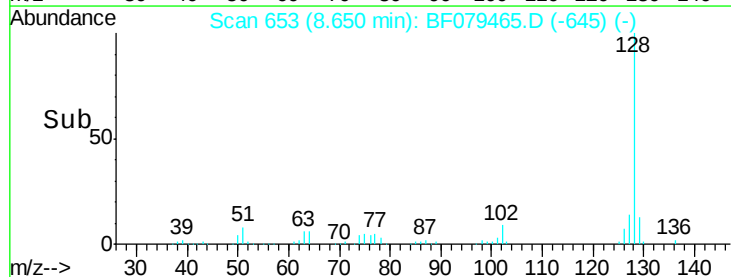
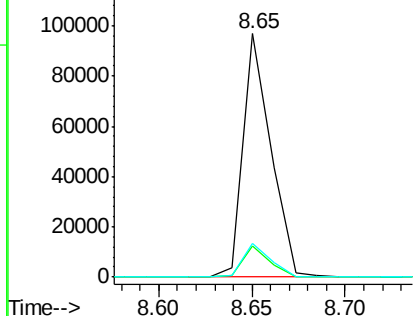


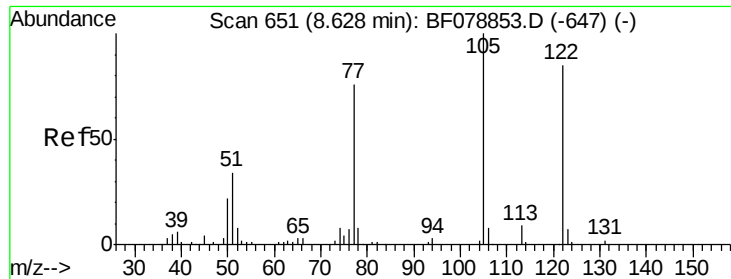
#31
 Naphthalene
 Concen: 7.19 ng
 RT: 8.65 min Scan# 653
 Delta R.T. -0.00 min
 Lab File: BF079465.D
 Acq: 23 May 2015 9:21

Tgt Ion	Ratio	Lower	Upper
128	100		
129	12.6	9.2	13.8
127	13.7	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

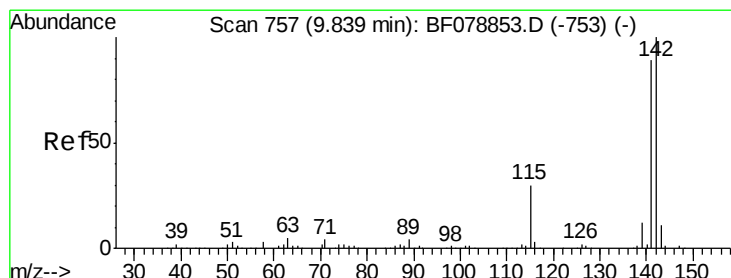
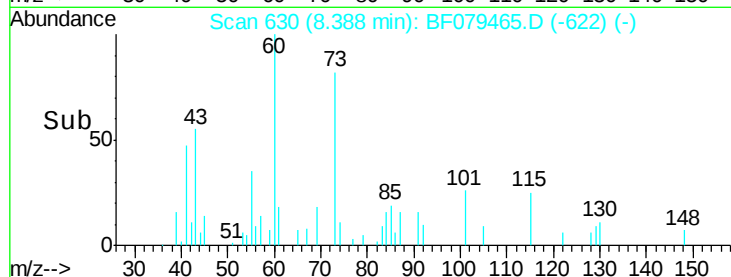
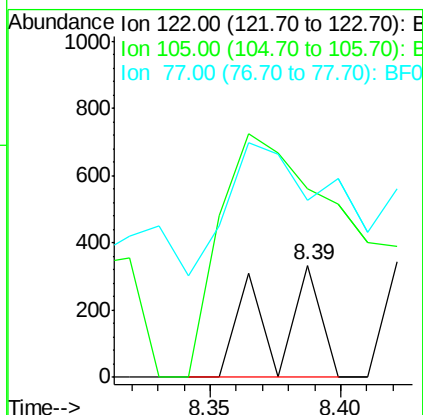
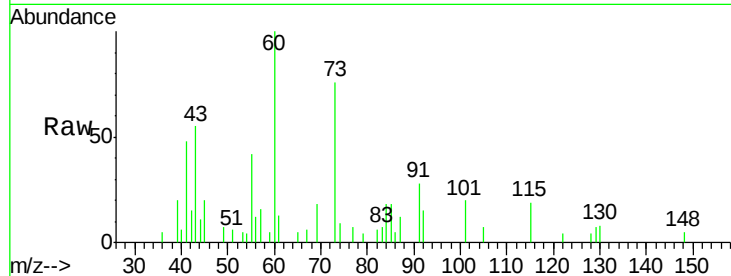




#32
Benzoic acid
Concen: 6.46 ng
RT: 8.39 min Scan# 630
Delta R.T. 0.01 min
Lab File: BF079465.D
Acq: 23 May 2015 9:21

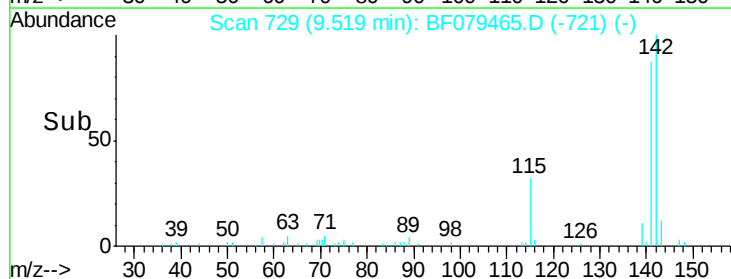
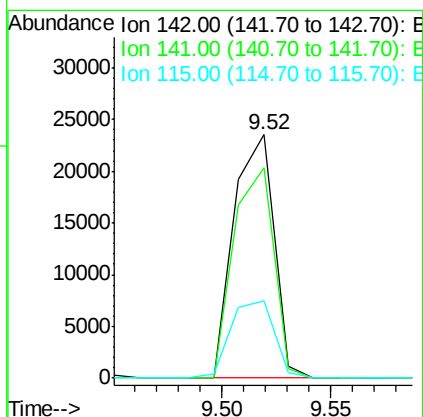
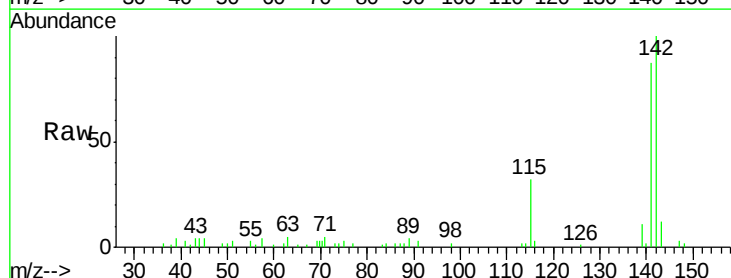
Instrument :
BNA_F
ClientSampleId :
SB-31D

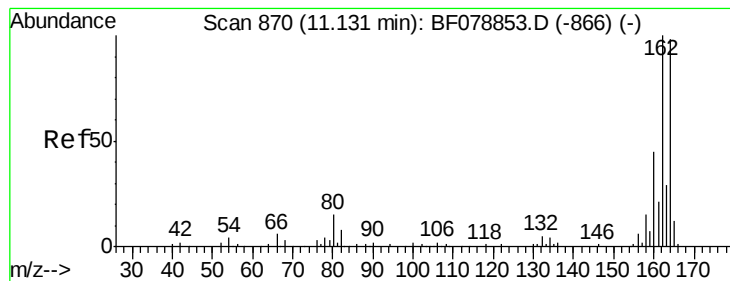
Tgt Ion:122 Resp: 442
Ion Ratio Lower Upper
122 100
105 168.0 100.7 140.7#
77 158.1 72.0 112.0#



#37
2-Methylnaphthalene
Concen: 3.10 ng
RT: 9.52 min Scan# 729
Delta R.T. -0.00 min
Lab File: BF079465.D
Acq: 23 May 2015 9:21

Tgt Ion:142 Resp: 30029
Ion Ratio Lower Upper
142 100
141 86.6 71.6 107.4
115 31.7 24.2 36.4





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 10.80 min Scan# 841

Delta R.T. -0.00 min

Lab File: BF079465.D

Acq: 23 May 2015 9:21

Instrument :

BNA_F

ClientSampleId :

SB-31D

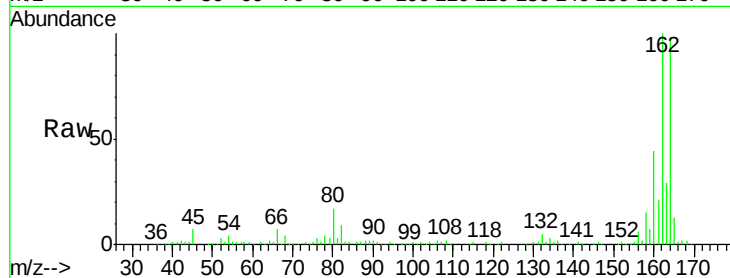
Tgt Ion:164 Resp: 139082

Ion Ratio Lower Upper

164 100

162 101.8 81.4 122.0

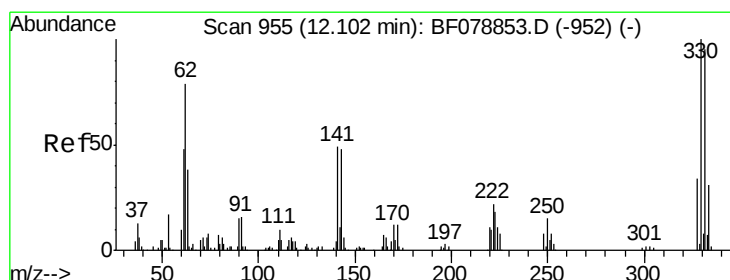
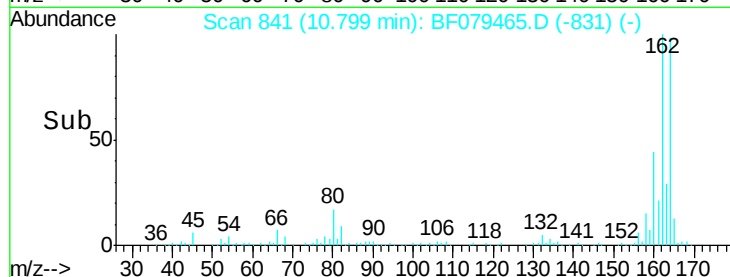
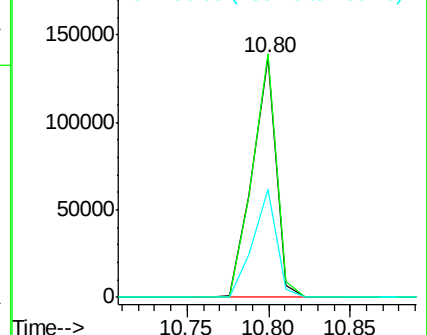
160 45.2 36.6 54.8



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: 14.86 ng

RT: 11.78 min Scan# 927

Delta R.T. -0.00 min

Lab File: BF079465.D

Acq: 23 May 2015 9:21

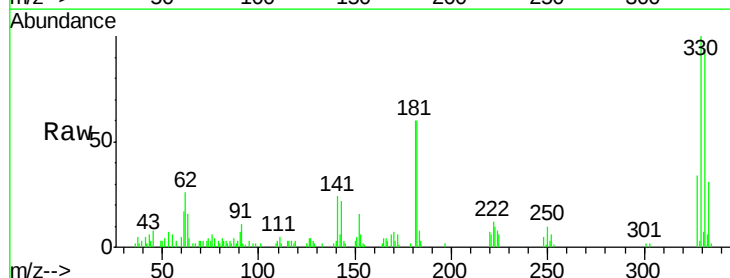
Tgt Ion:330 Resp: 22352

Ion Ratio Lower Upper

330 100

332 95.7 76.9 115.3

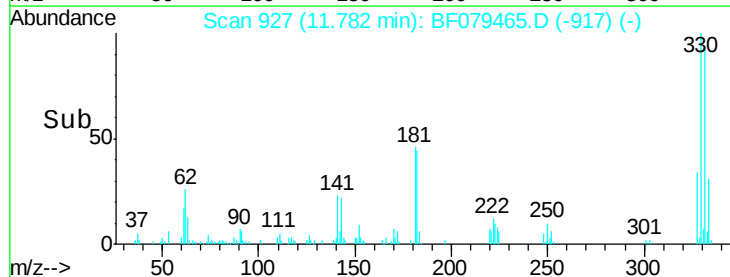
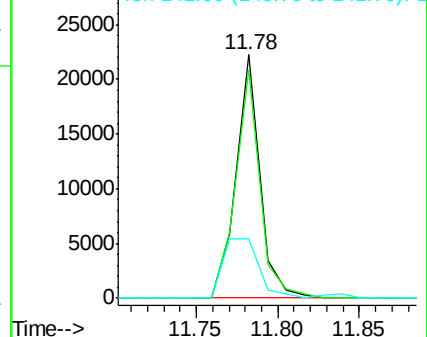
141 36.6 27.8 41.8

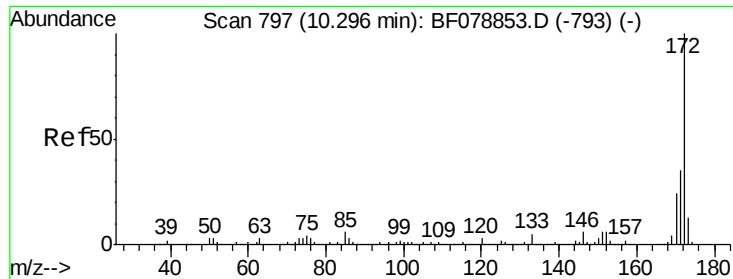


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

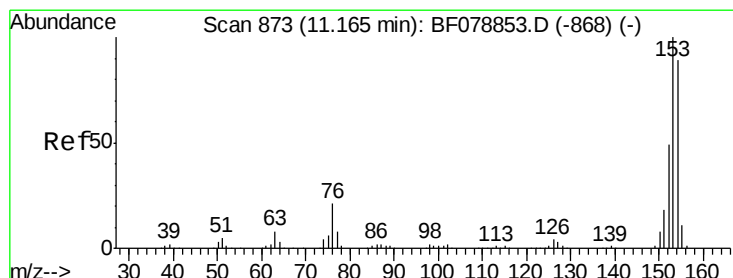
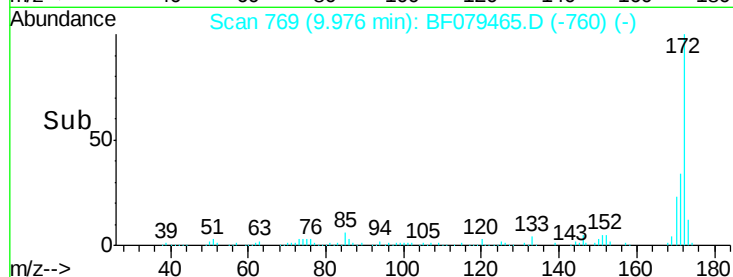
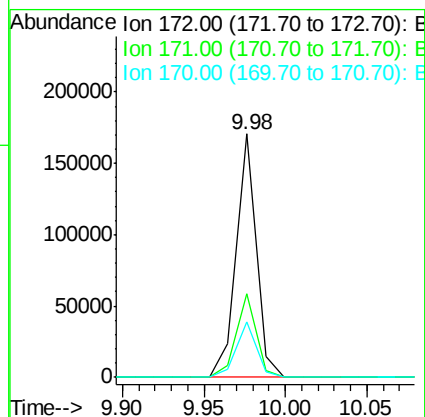
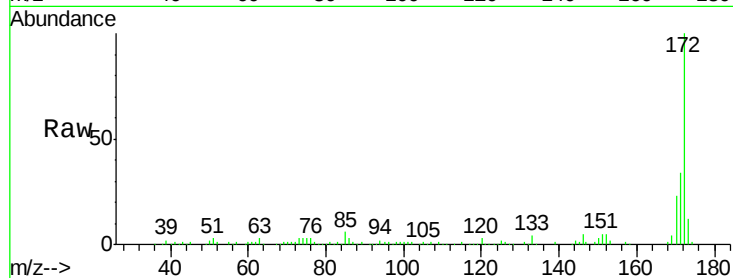




#44
 2-Fluorobiphenyl
 Concen: 14.42 ng
 RT: 9.98 min Scan# 769
 Delta R.T. -0.00 min
 Lab File: BF079465.D
 Acq: 23 May 2015 9:21

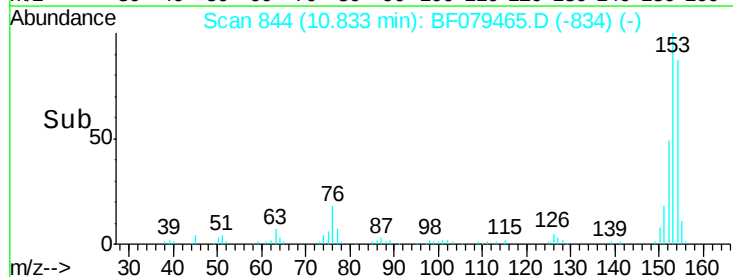
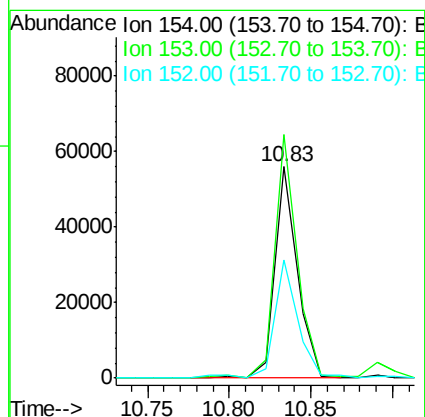
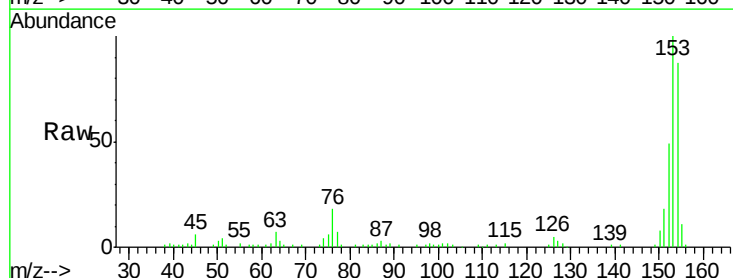
Instrument :
 BNA_F
 ClientSampleId :
 SB-31D

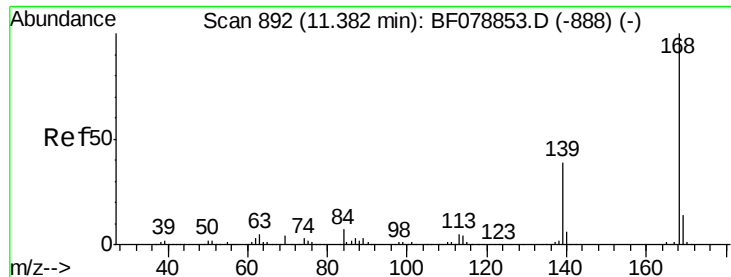
Tgt Ion:172 Resp: 143985
 Ion Ratio Lower Upper
 172 100
 171 34.1 28.3 42.5
 170 22.9 19.4 29.2



#51
 Acenaphthene
 Concen: 6.36 ng
 RT: 10.83 min Scan# 844
 Delta R.T. -0.00 min
 Lab File: BF079465.D
 Acq: 23 May 2015 9:21

Tgt Ion:154 Resp: 53718
 Ion Ratio Lower Upper
 154 100
 153 115.1 90.2 135.2
 152 56.1 43.8 65.8

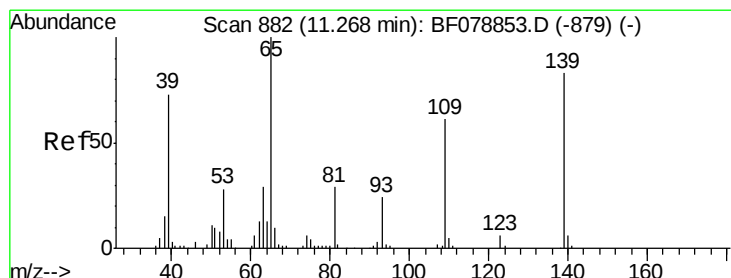
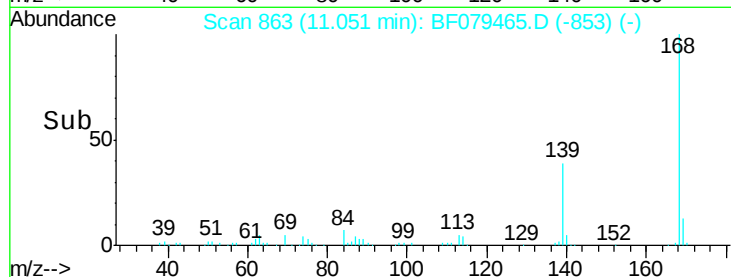
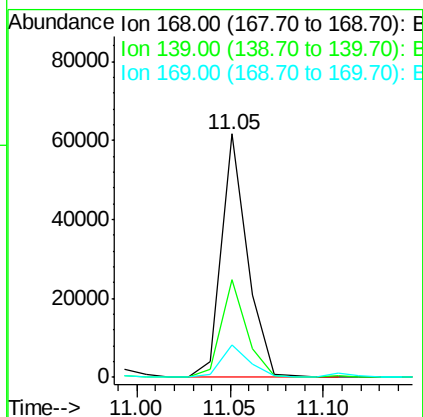
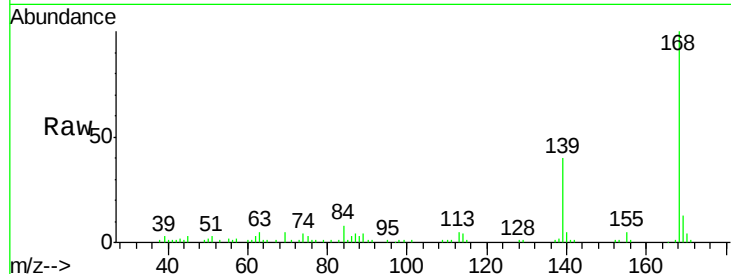




#54
Dibenzenofuran
Concen: 4.92 ng
RT: 11.05 min Scan# 863
Delta R.T. -0.00 min
Lab File: BF079465.D
Acq: 23 May 2015 9:21

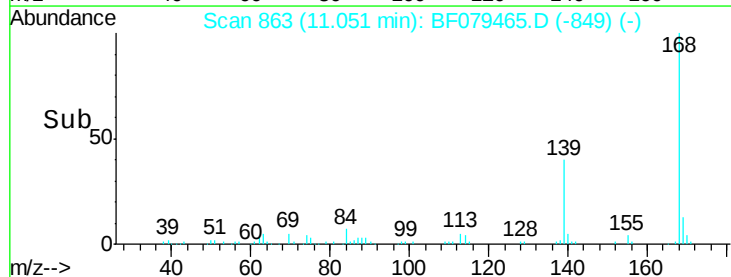
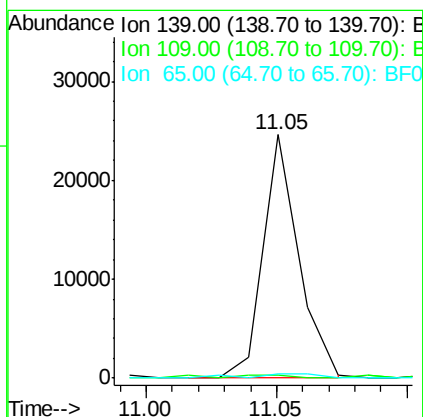
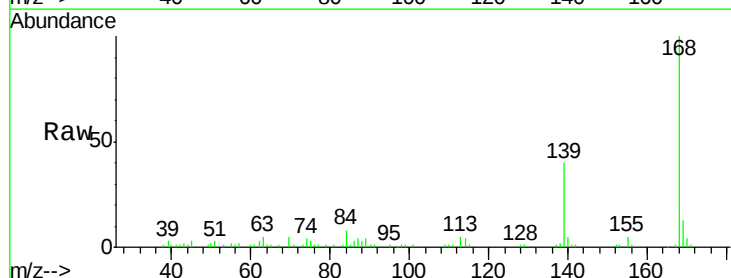
Instrument :
BNA_F
ClientSampleId :
SB-31D

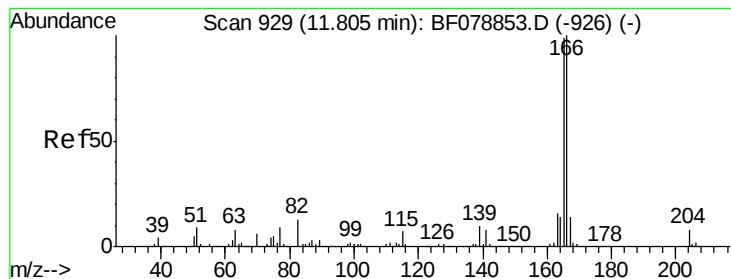
Tgt Ion:168 Resp: 59962
Ion Ratio Lower Upper
168 100
139 39.9 31.5 47.3
169 13.3 11.0 16.4



#55
4-Nitrophenol
Concen: 11.78 ng
RT: 11.05 min Scan# 863
Delta R.T. 0.05 min
Lab File: BF079465.D
Acq: 23 May 2015 9:21

Tgt Ion:139 Resp: 23465
Ion Ratio Lower Upper
139 100
109 1.3 54.4 94.4#
65 1.8 101.0 141.0#





#57

Fluorene

Concen: 7.37 ng

RT: 11.47 min Scan# 900

Delta R.T. -0.00 min

Lab File: BF079465.D

Acq: 23 May 2015 9:21

Instrument :

BNA_F

ClientSampleId :

SB-31D

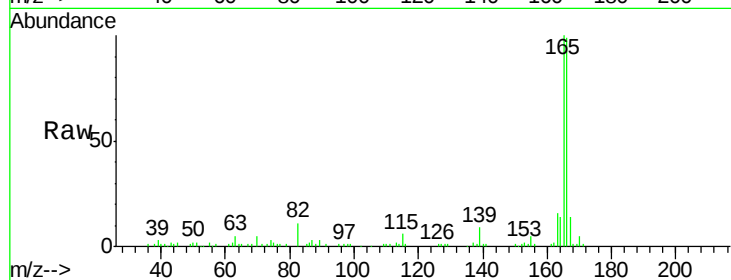
Tgt Ion:166 Resp: 73820

Ion Ratio Lower Upper

166 100

165 100.9 79.5 119.3

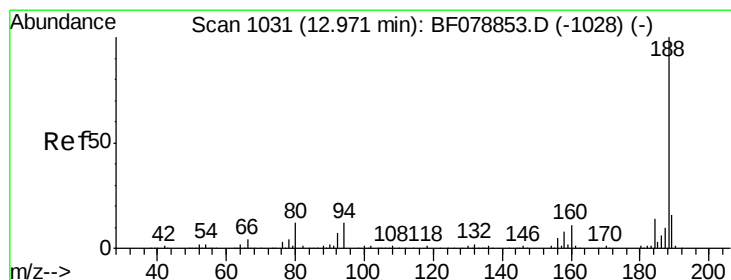
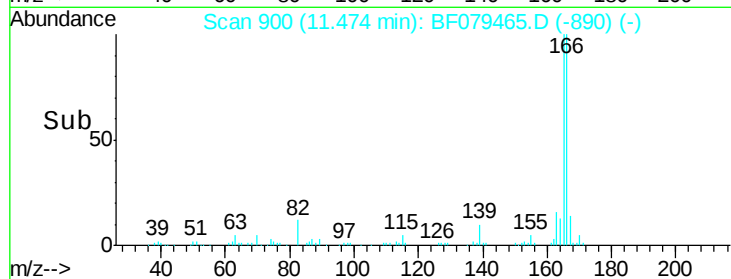
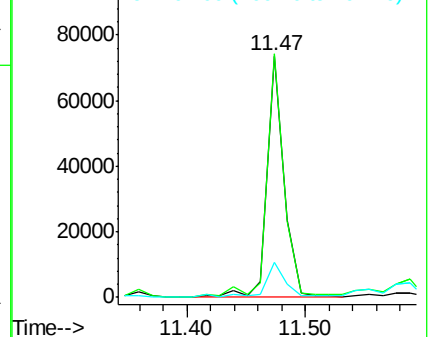
167 14.4 11.0 16.6



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: 12.64 min Scan# 1002

Delta R.T. 0.01 min

Lab File: BF079465.D

Acq: 23 May 2015 9:21

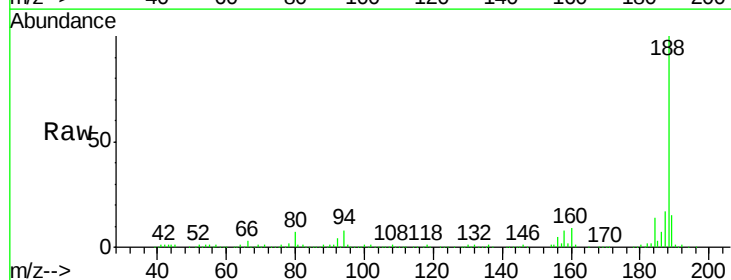
Tgt Ion:188 Resp: 255332

Ion Ratio Lower Upper

188 100

94 7.7 9.4 14.0#

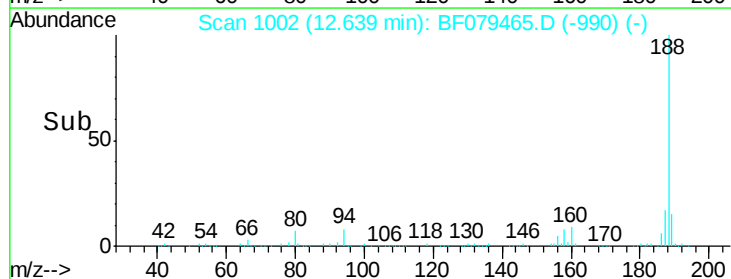
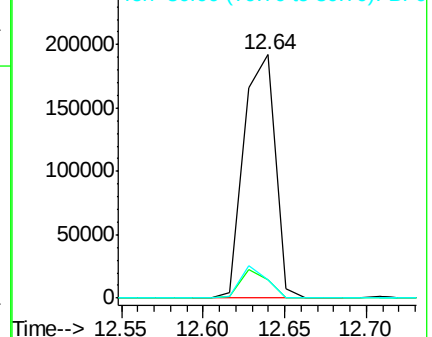
80 7.3 9.8 14.6#

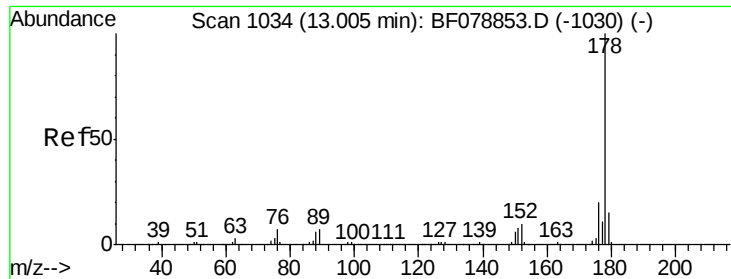


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 41.86 ng

RT: 12.66 min Scan# 1004

Delta R.T. -0.00 min

Lab File: BF079465.D

Acq: 23 May 2015 9:21

Instrument :

BNA_F

ClientSampleId :

SB-31D

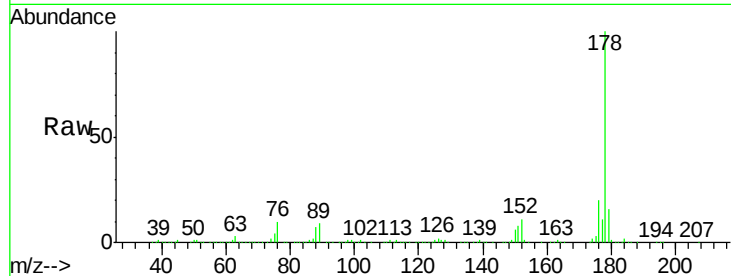
Tgt Ion:178 Resp: 598011

Ion Ratio Lower Upper

178 100

176 20.2 15.9 23.9

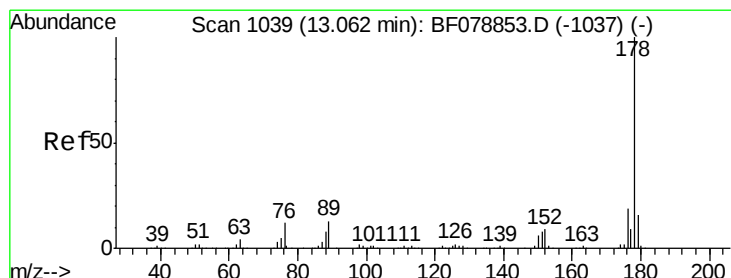
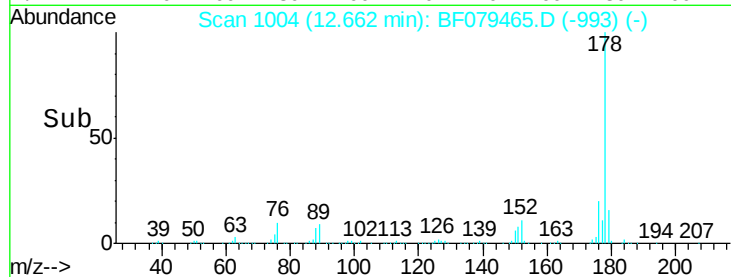
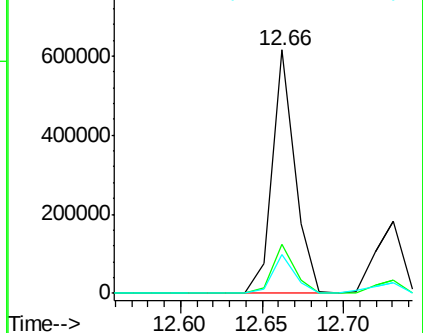
179 15.8 12.2 18.4



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: 14.48 ng

RT: 12.73 min Scan# 1010

Delta R.T. -0.00 min

Lab File: BF079465.D

Acq: 23 May 2015 9:21

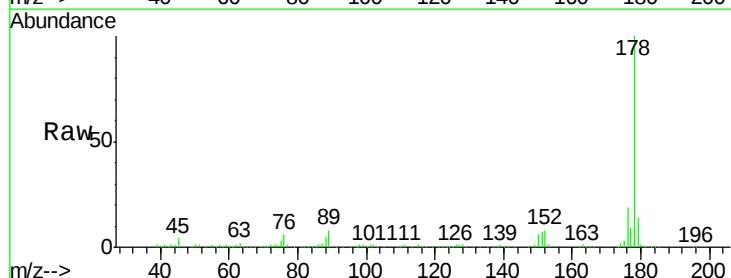
Tgt Ion:178 Resp: 202889

Ion Ratio Lower Upper

178 100

176 18.8 15.3 22.9

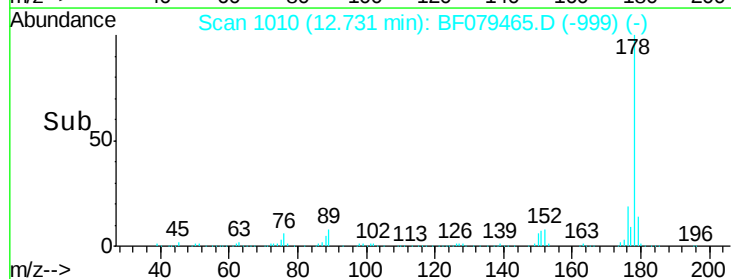
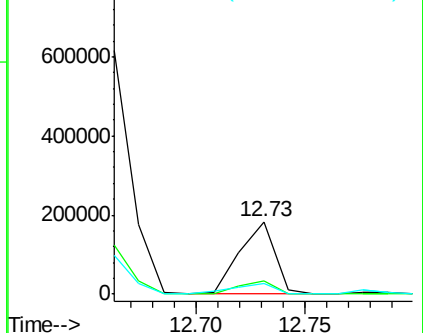
179 14.5 12.6 19.0

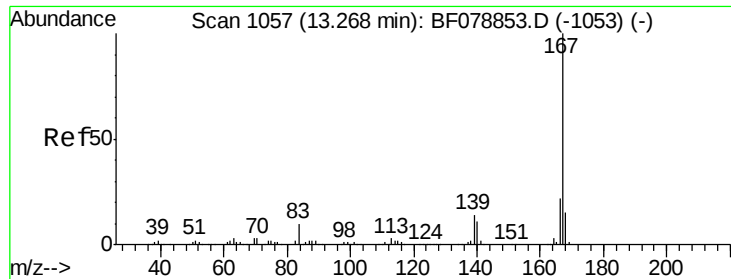


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 3.49 ng

RT: 12.94 min Scan# 1028

Delta R.T. -0.00 min

Lab File: BF079465.D

Acq: 23 May 2015 9:21

Instrument :

BNA_F

ClientSampleId :

SB-31D

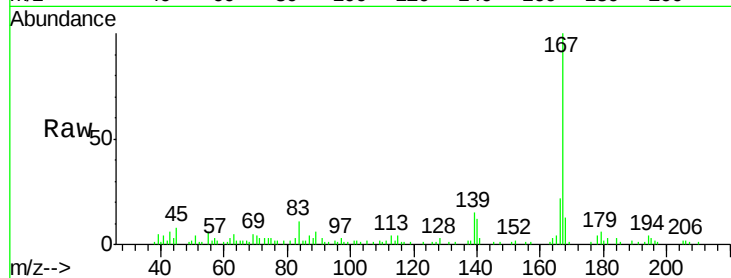
Tgt Ion:167 Resp: 46566

Ion Ratio Lower Upper

167 100

166 22.5 17.5 26.3

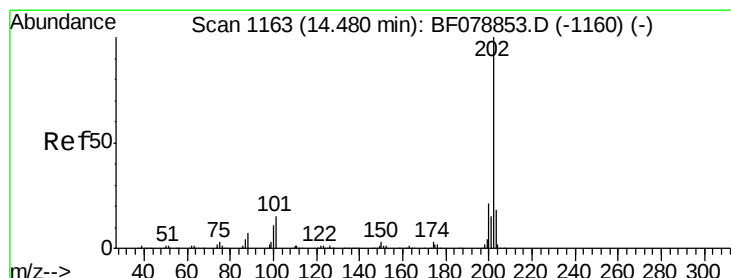
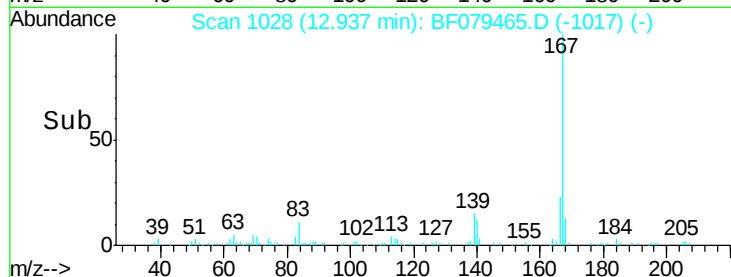
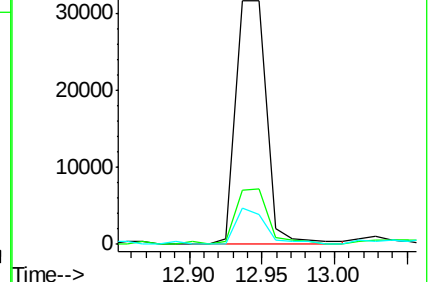
139 15.1 11.0 16.4



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: 46.42 ng

RT: 14.14 min Scan# 1133

Delta R.T. -0.00 min

Lab File: BF079465.D

Acq: 23 May 2015 9:21

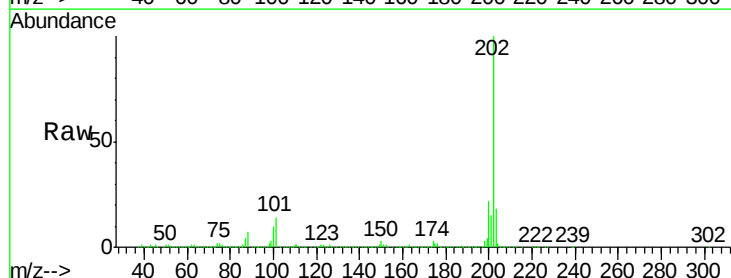
Tgt Ion:202 Resp: 690921

Ion Ratio Lower Upper

202 100

101 14.0 0.0 34.7

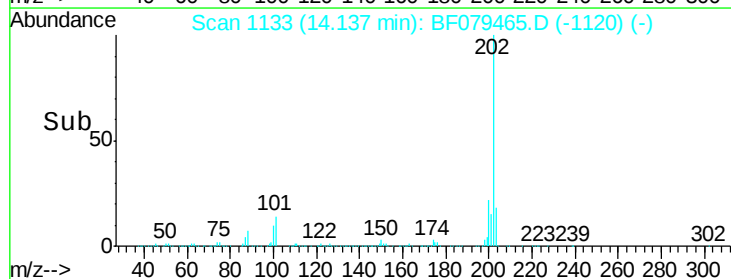
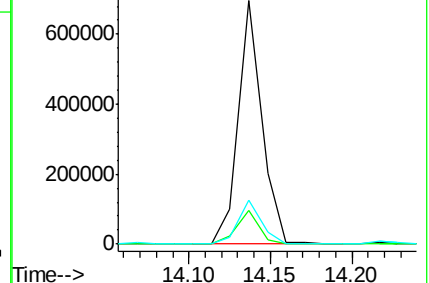
203 18.1 0.0 37.9

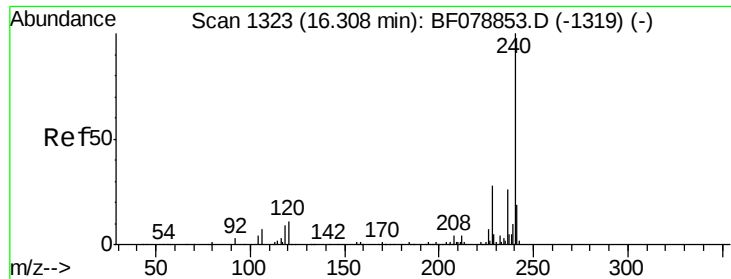


Abundance Ion 202.00 (201.70 to 202.70): E

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: 15.92 min Scan# 1289

Delta R.T. 0.01 min

Lab File: BF079465.D

Acq: 23 May 2015 9:21

Instrument :

BNA_F

ClientSampleId :

SB-31D

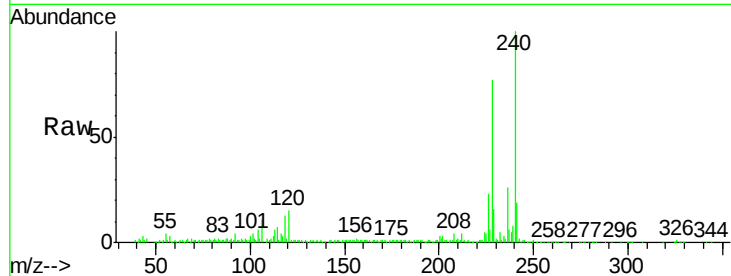
Tgt Ion:240 Resp: 257988

Ion Ratio Lower Upper

240 100

120 15.3 8.6 12.8#

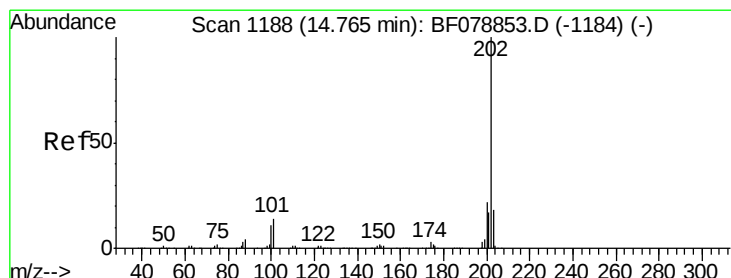
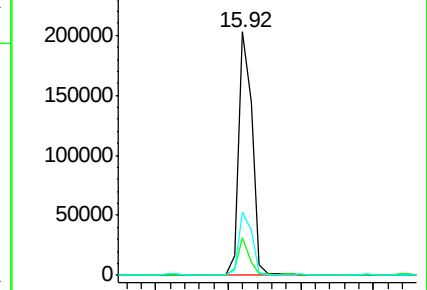
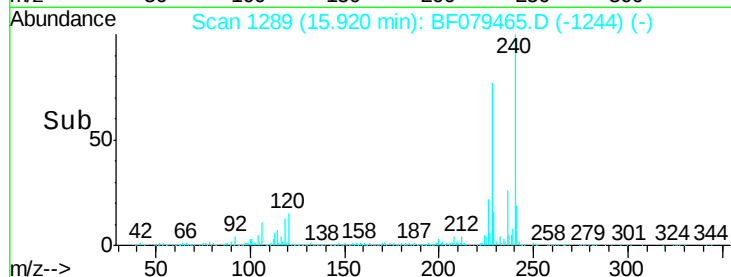
236 26.1 21.0 31.6



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

Pyrene

Concen: 45.40 ng

RT: 14.41 min Scan# 1157

Delta R.T. -0.00 min

Lab File: BF079465.D

Acq: 23 May 2015 9:21

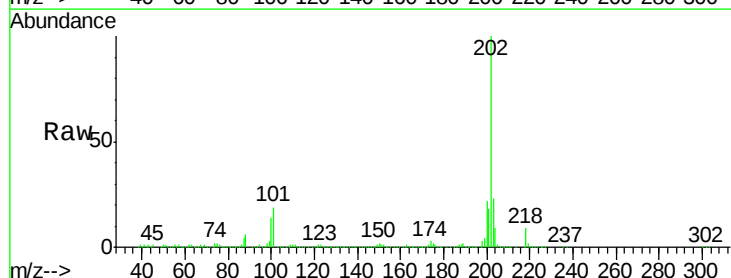
Tgt Ion:202 Resp: 674928

Ion Ratio Lower Upper

202 100

200 22.4 17.5 26.3

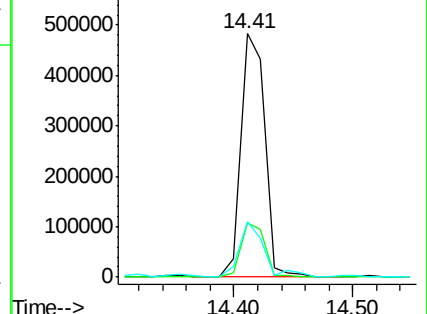
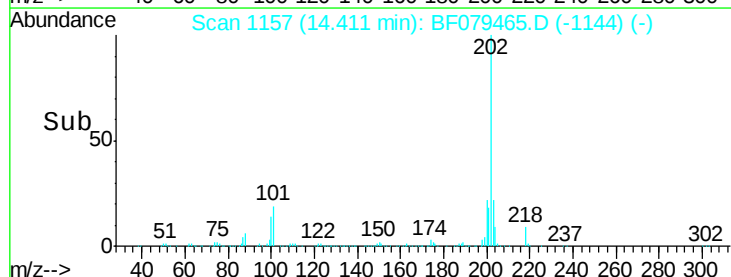
203 23.0 14.7 22.1#

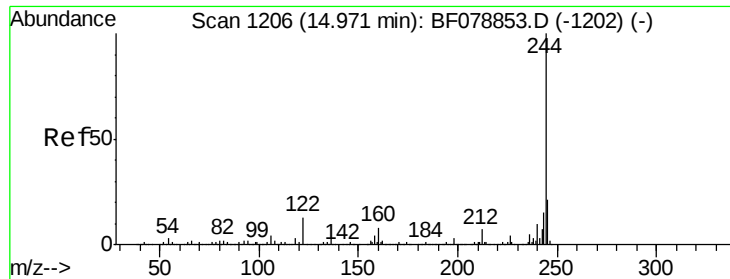


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 14.17 ng

RT: 14.63 min Scan# 1176

Delta R.T. -0.00 min

Lab File: BF079465.D

Acq: 23 May 2015 9:21

Instrument :

BNA_F

ClientSampleId :

SB-31D

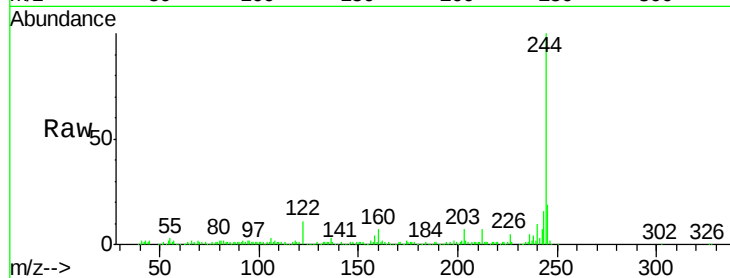
Tgt Ion:244 Resp: 152674

Ion Ratio Lower Upper

244 100

212 6.6 5.6 8.4

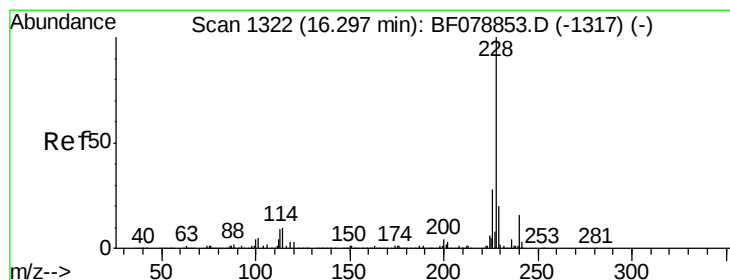
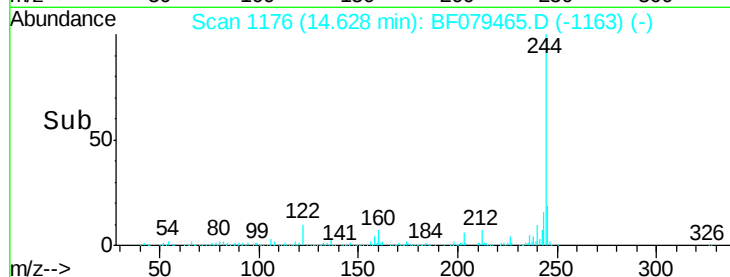
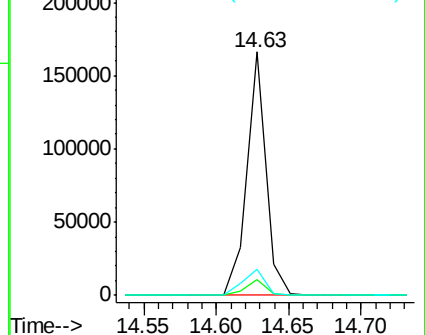
122 10.7 10.5 15.7



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: 22.33 ng

RT: 15.91 min Scan# 1288

Delta R.T. 0.01 min

Lab File: BF079465.D

Acq: 23 May 2015 9:21

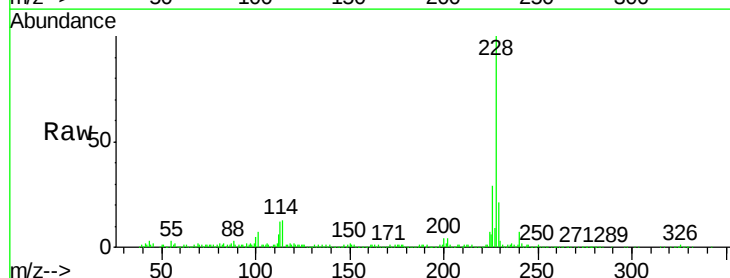
Tgt Ion:228 Resp: 315540

Ion Ratio Lower Upper

228 100

226 29.3 22.3 33.5

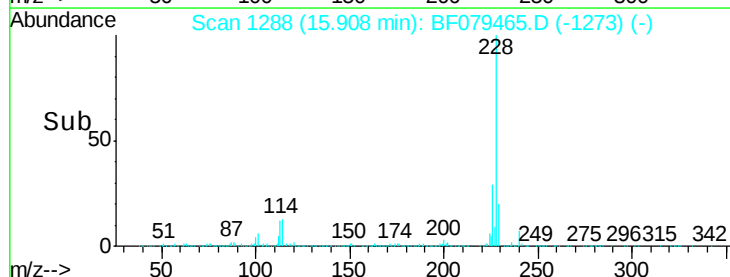
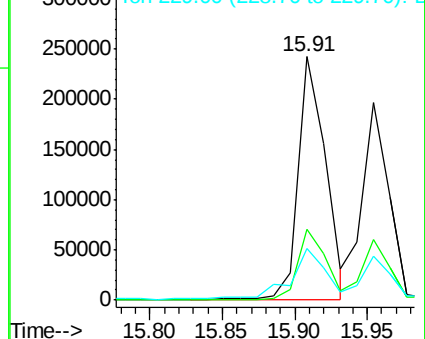
229 20.9 16.1 24.1

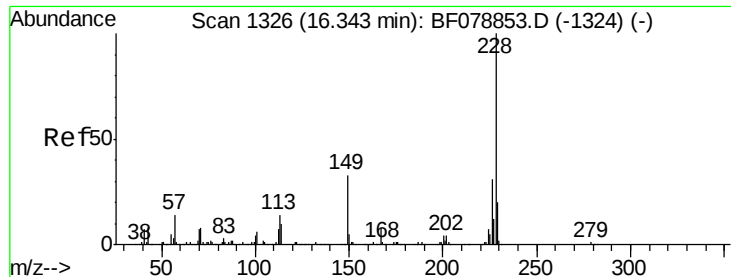


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 18.34 ng

RT: 15.95 min Scan# 1292

Delta R.T. 0.01 min

Lab File: BF079465.D

Acq: 23 May 2015 9:21

Instrument :

BNA_F

ClientSampleId :

SB-31D

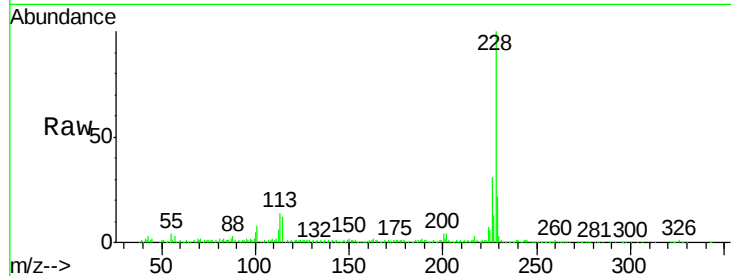
Tgt Ion:228 Resp: 249185

Ion Ratio Lower Upper

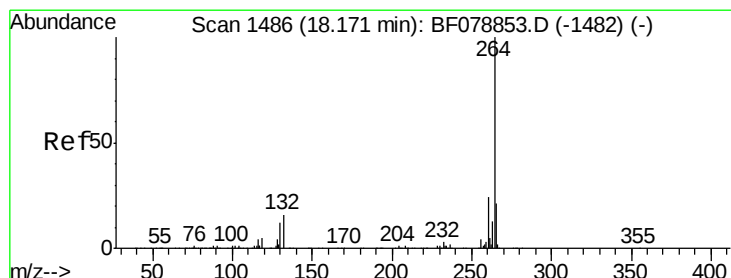
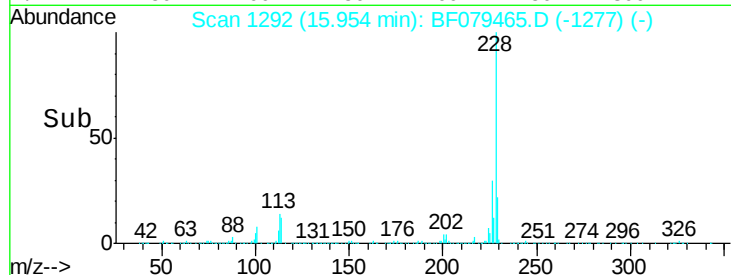
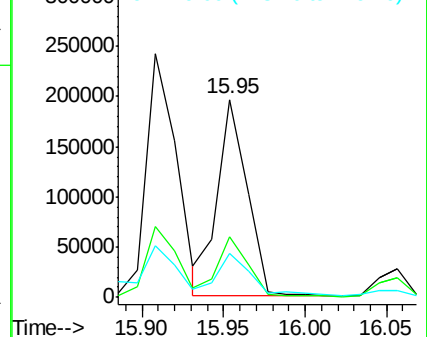
228 100

226 30.6 24.8 37.2

229 22.2 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

Perylene-d12

Concen: 20.00 ng

RT: 17.70 min Scan# 1445

Delta R.T. 0.09 min

Lab File: BF079465.D

Acq: 23 May 2015 9:21

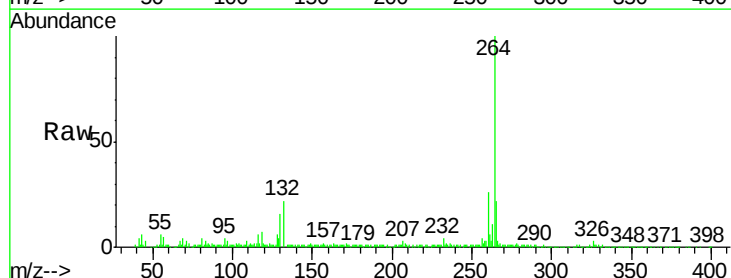
Tgt Ion:264 Resp: 254120

Ion Ratio Lower Upper

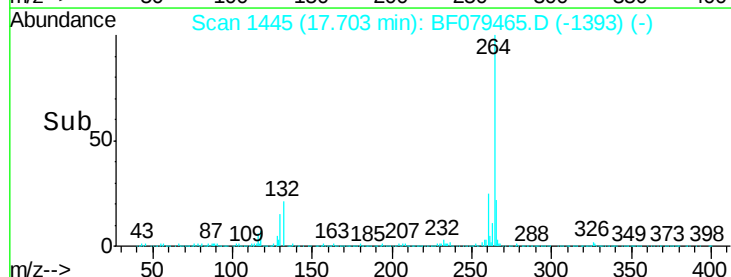
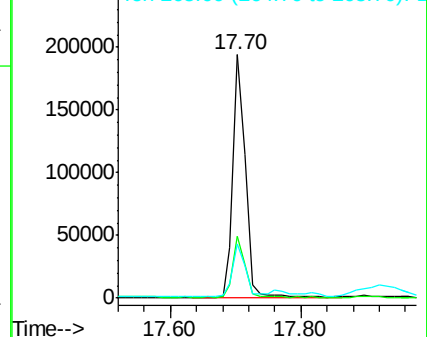
264 100

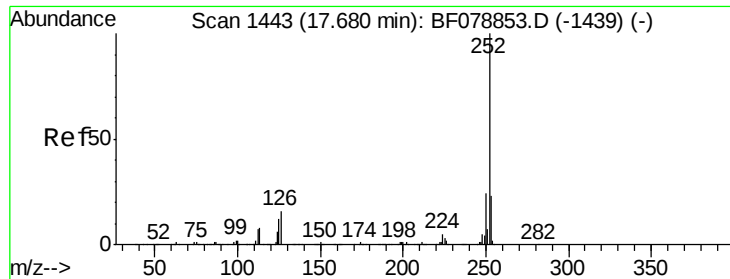
260 25.6 19.2 28.8

265 22.1 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

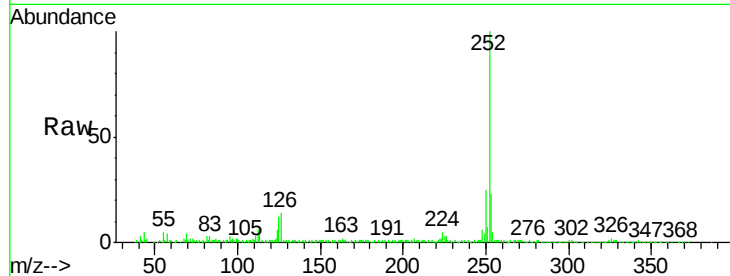




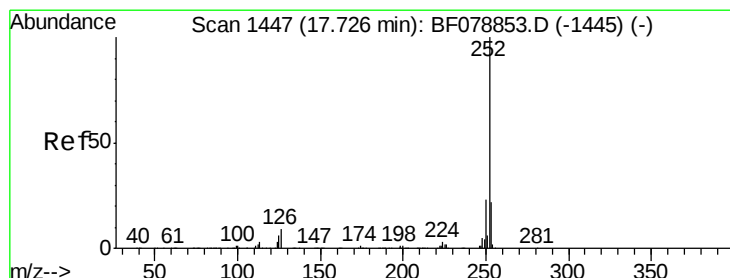
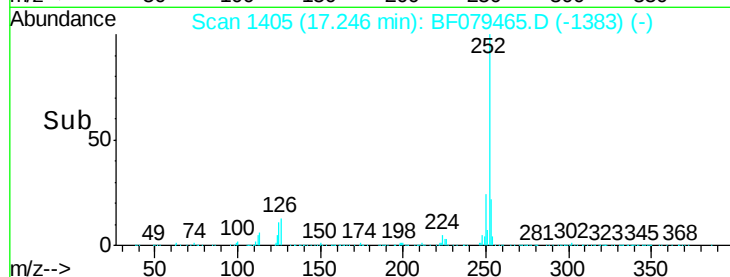
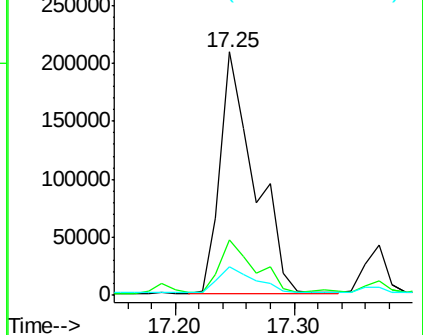
#87
Benzo(b)fluoranthene
Concen: 30.52 ng
RT: 17.25 min Scan# 1405
Delta R.T. 0.07 min
Lab File: BF079465.D
Acq: 23 May 2015 9:21

Instrument :
BNA_F
ClientSampleId :
SB-31D

Tgt Ion:252 Resp: 424464
Ion Ratio Lower Upper
252 100
253 22.6 18.1 27.1
125 11.7 9.4 14.2

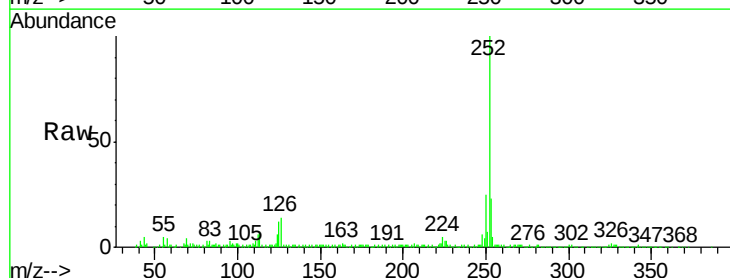


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

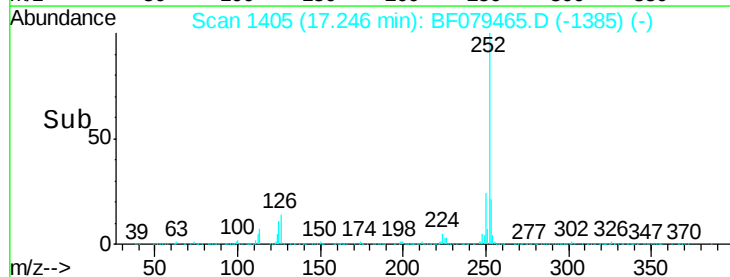
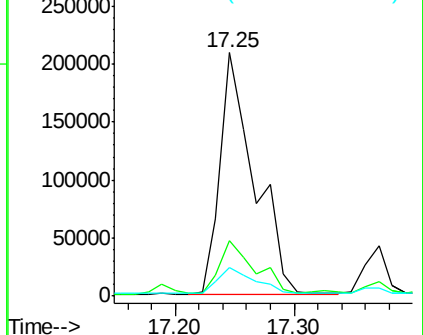


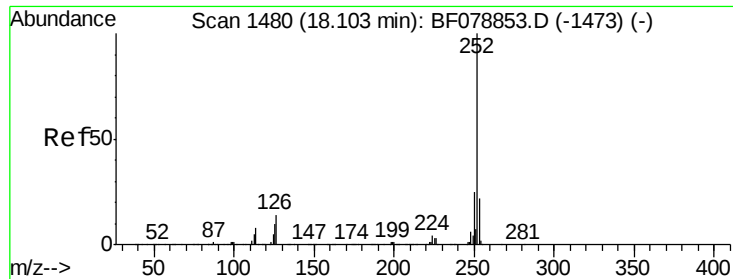
#88
Benzo(k)fluoranthene
Concen: 31.52 ng
RT: 17.25 min Scan# 1405
Delta R.T. 0.05 min
Lab File: BF079465.D
Acq: 23 May 2015 9:21

Tgt Ion:252 Resp: 424464
Ion Ratio Lower Upper
252 100
253 22.6 17.4 26.0
125 11.7 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: 19.40 ng

RT: 17.63 min Scan# 1439

Delta R.T. 0.09 min

Lab File: BF079465.D

Acq: 23 May 2015 9:21

Instrument :

BNA_F

ClientSampleId :

SB-31D

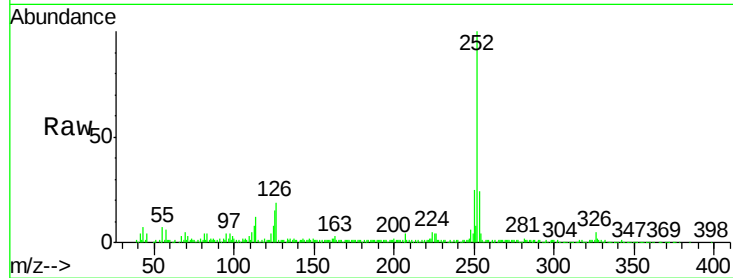
Tgt Ion:252 Resp: 248482

Ion Ratio Lower Upper

252 100

253 24.0 18.0 27.0

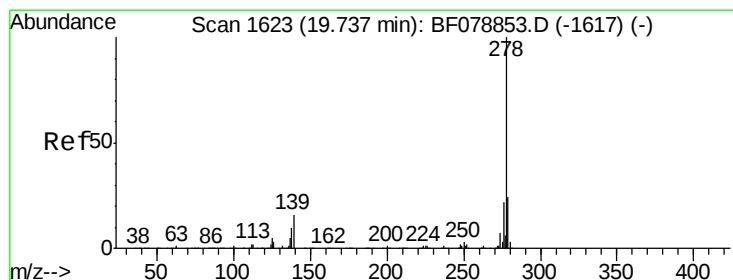
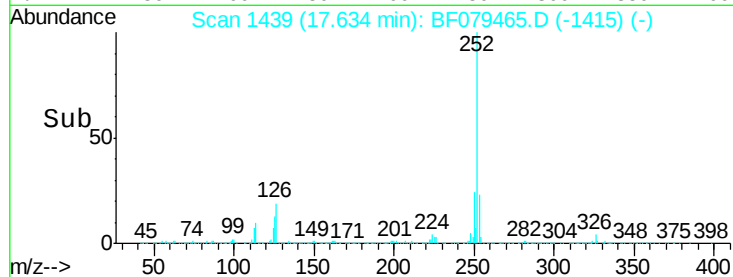
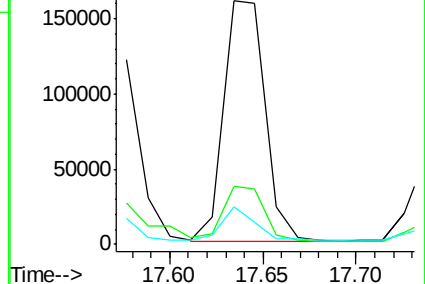
125 15.4 8.2 12.2#



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: 3.00 ng

RT: 19.09 min Scan# 1566

Delta R.T. 0.13 min

Lab File: BF079465.D

Acq: 23 May 2015 9:21

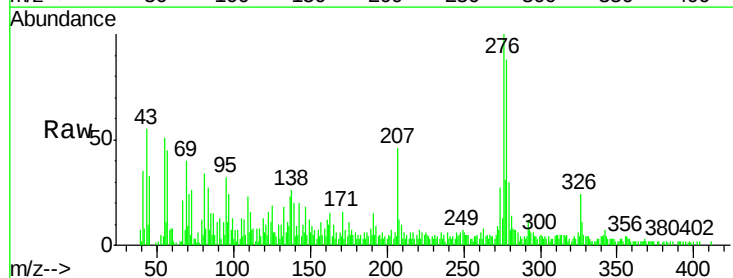
Tgt Ion:278 Resp: 40773

Ion Ratio Lower Upper

278 100

139 22.7 13.1 19.7#

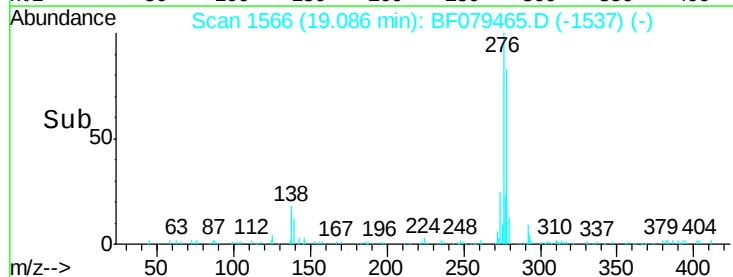
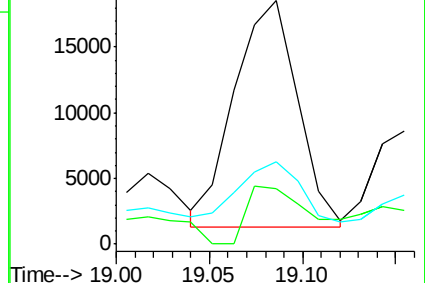
279 34.0 19.1 28.7#

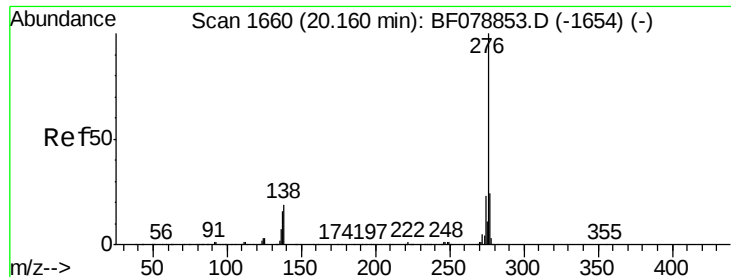


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(g,h,i)perylene

Concen: 11.22 ng

RT: 19.46 min Scan# 1599

Delta R.T. 0.14 min

Lab File: BF079465.D

Acq: 23 May 2015 9:21

Instrument :

BNA_F

ClientSampleId :

SB-31D

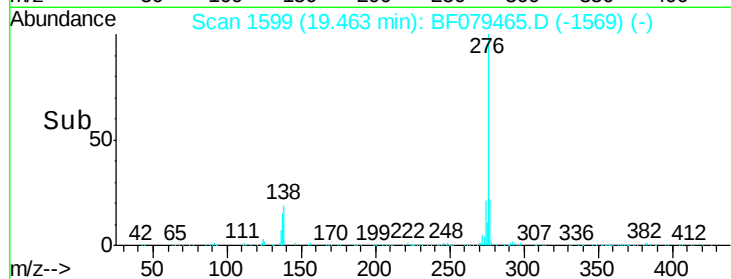
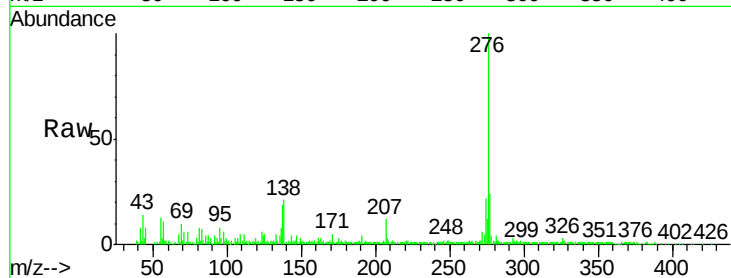
Tgt Ion: 276 Resp: 153095

Ion Ratio Lower Upper

276 100

277 23.5 18.8 28.2

138 20.6 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

