

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052815\
 Data File : BF079555.D
 Acq On : 28 May 2015 20:29
 Operator : TP/IZ
 Sample : G2408-03
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SB-24D

Quant Time: May 29 08:49:46 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 28 18:41:08 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.96	152	80213	20.00	ng	0.00
21) Naphthalene-d8	8.54	136	331469	20.00	ng	0.00
38) Acenaphthene-d10	10.71	164	161227	20.00	ng	0.00
63) Phenanthrene-d10	12.54	188	302368	20.00	ng	0.00
75) Chrysene-d12	15.82	240	314021	20.00	ng	-0.02
86) Perylene-d12	17.52	264	340535	20.00	ng	-0.15

System Monitoring Compounds						
5) 2-Fluorophenol	5.24	112	411825	89.05	ng	0.01
7) Phenol-d6	6.57	99	589197	99.96	ng	0.01
23) Nitrobenzene-d5	7.67	82	327173	57.06	ng	0.00
41) 2,4,6-Tribromophenol	11.69	330	142876	80.68	ng	0.00
44) 2-Fluorobiphenyl	9.88	172	635897	56.27	ng	0.00
78) Terphenyl-d14	14.54	244	725894	54.25	ng	0.00

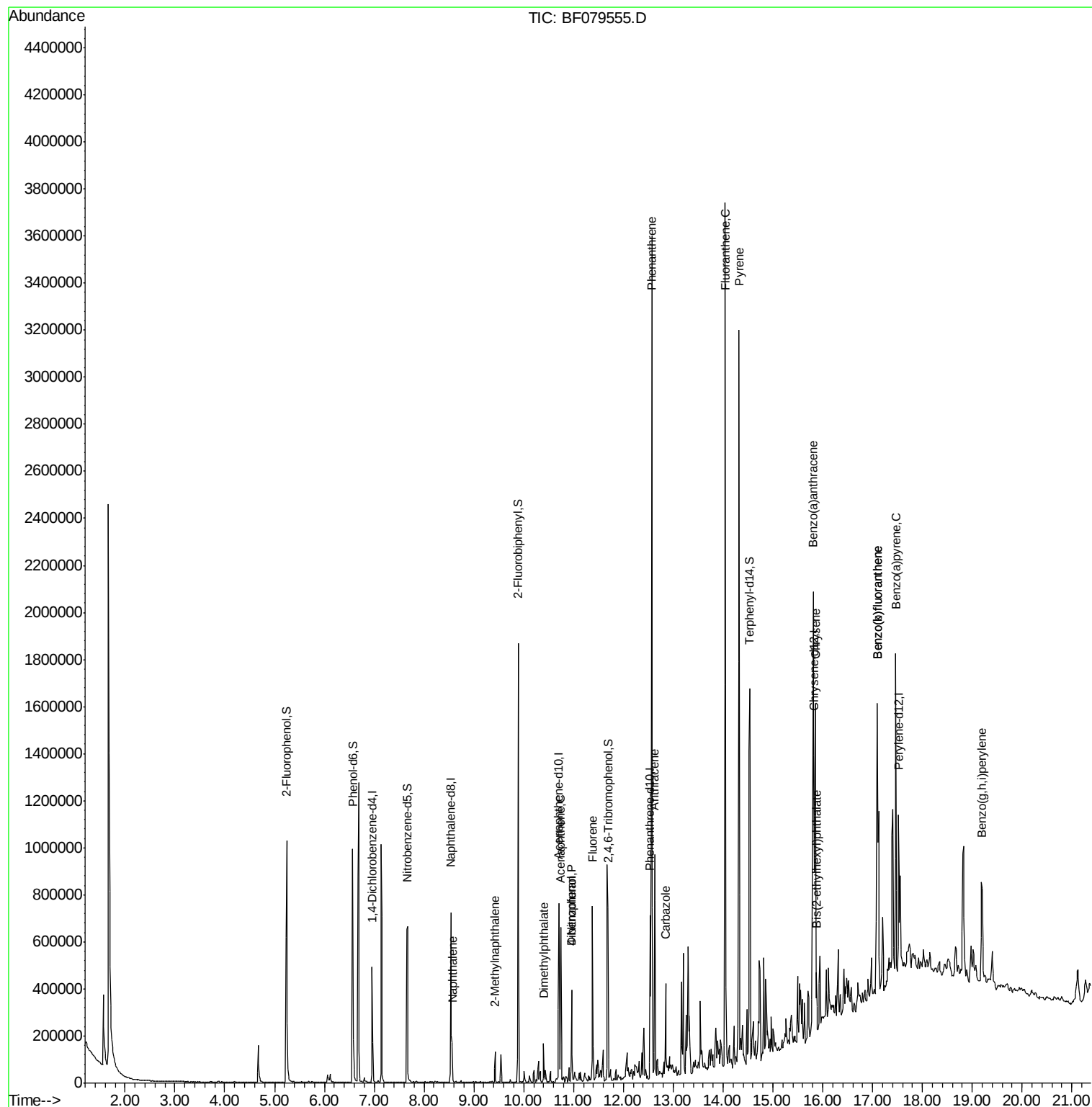
Target Compounds				Qvalue		
31) Naphthalene	8.57	128	109821	6.90	ng	98
37) 2-Methylnaphthalene	9.43	142	43750	3.96	ng	98
49) Dimethylphthalate	10.40	163	66295	5.58	ng	98
51) Acenaphthene	10.74	154	145567	15.42	ng	100
54) Dibenzofuran	10.96	168	152052	10.92	ng	97
55) 4-Nitrophenol	10.96	139	56893	33.23	ng	# 13
57) Fluorene	11.38	166	206734	18.02	ng	99
70) Phenanthrene	12.57	178	1481281	89.30	ng	97
71) Anthracene	12.63	178	522477	31.02	ng	98
72) Carbazole	12.85	167	159734	9.85	ng	99
73) Di-n-butylphthalate	13.30	149	7717	Below Cal	#	32
74) Fluoranthene	14.05	202	1660692	93.36	ng	95
77) Pyrene	14.32	202	1431357	73.57	ng	97
80) Benzo(a)anthracene	15.81	228	869936	48.16	ng	98
82) Chrysene	15.85	228	628987	36.63	ng	97
83) Bis(2-ethylhexyl)phthalate	15.87	149	52410	4.18	ng	# 98
87) Benzo(b)fluoranthene	17.10	252	1180256	60.77	ng	# 96
88) Benzo(k)fluoranthene	17.10	252	1180256	67.96	ng	# 94
89) Benzo(a)pyrene	17.46	252	650583	37.90	ng	97
91) Benzo(g,h,i)perylene	19.19	276	368189	20.01	ng	100

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.96 min Scan# 505

Delta R.T. -0.00 min

Lab File: BF079555.D

Acq: 28 May 2015 20:29

Instrument :

BNA_G

ClientSampleId :

SB-24D

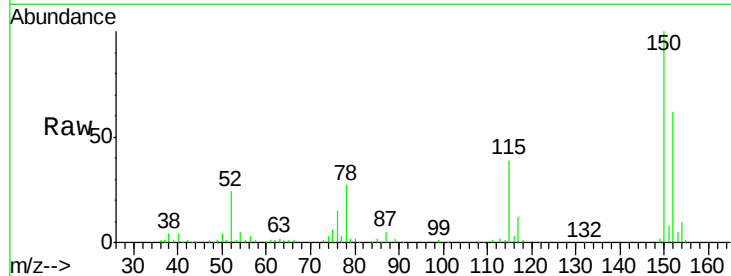
Tgt Ion:152 Resp: 80213

Ion Ratio Lower Upper

152 100

150 160.5 124.0 186.0

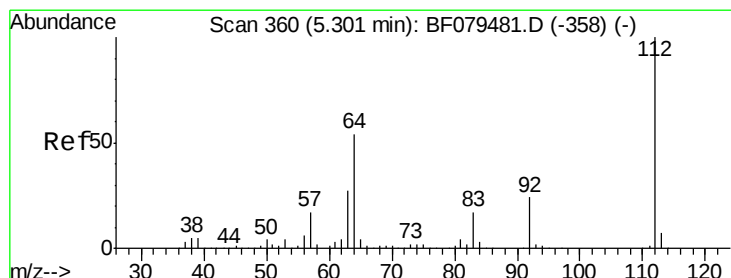
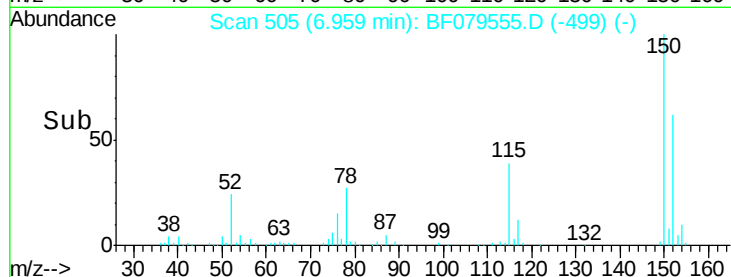
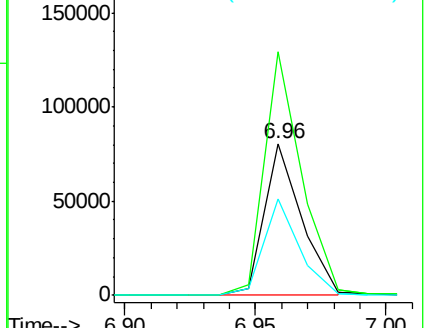
115 63.3 49.6 74.4



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: 89.05 ng

RT: 5.24 min Scan# 355

Delta R.T. 0.01 min

Lab File: BF079555.D

Acq: 28 May 2015 20:29

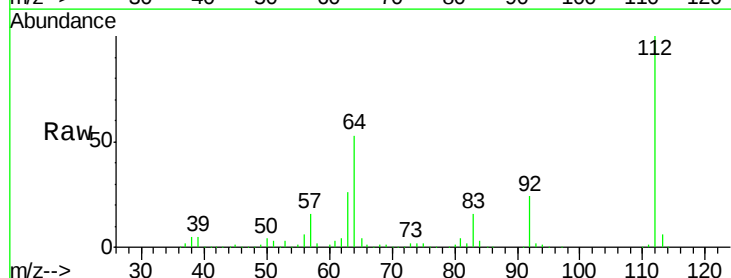
Tgt Ion:112 Resp: 411825

Ion Ratio Lower Upper

112 100

64 52.8 43.5 65.3

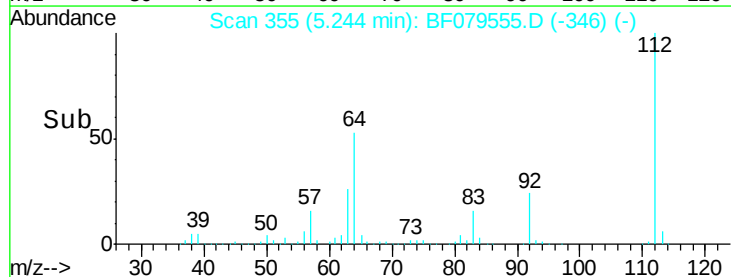
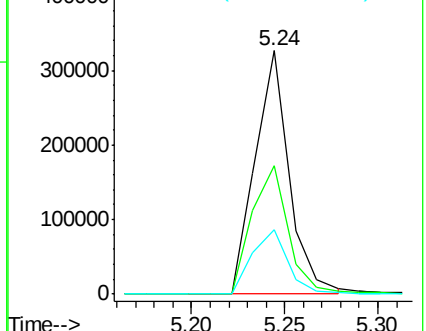
63 26.2 21.8 32.8



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: 99.96 ng

RT: 6.57 min Scan# 471

Delta R.T. 0.01 min

Lab File: BF079555.D

Acq: 28 May 2015 20:29

Instrument :

BNA_G

ClientSampleId :

SB-24D

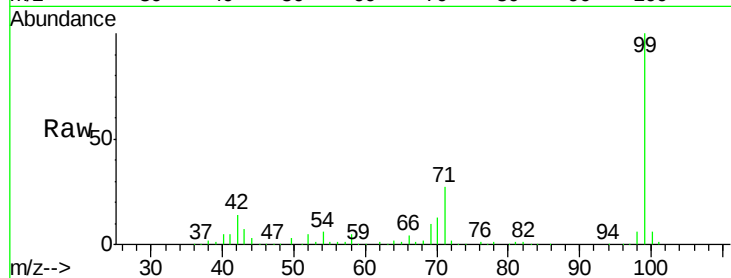
Tgt Ion: 99 Resp: 589197

Ion Ratio Lower Upper

99 100

42 14.2 11.9 17.9

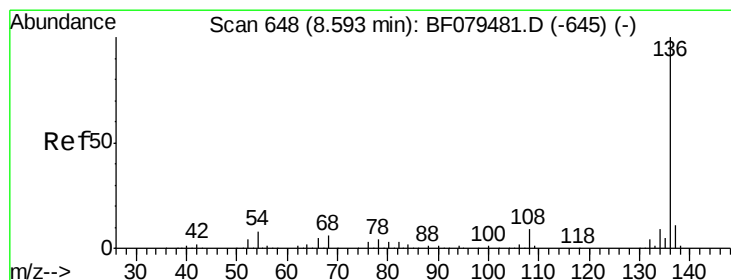
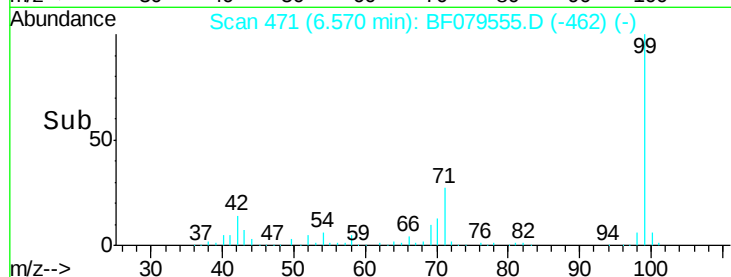
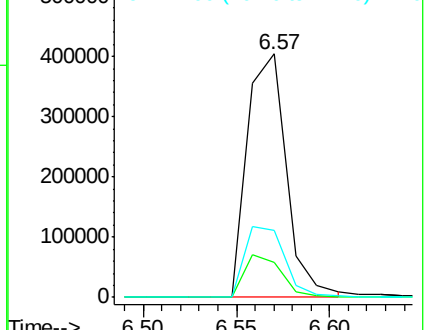
71 27.3 22.1 33.1



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: 8.54 min Scan# 643

Delta R.T. -0.00 min

Lab File: BF079555.D

Acq: 28 May 2015 20:29

Tgt Ion: 136 Resp: 331469

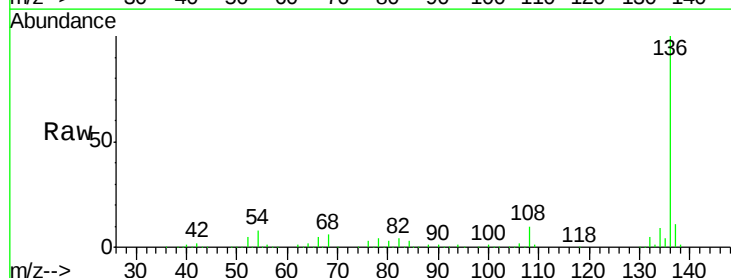
Ion Ratio Lower Upper

136 100

137 11.0 8.5 12.7

54 8.3 6.6 9.8

68 6.4 4.7 7.1

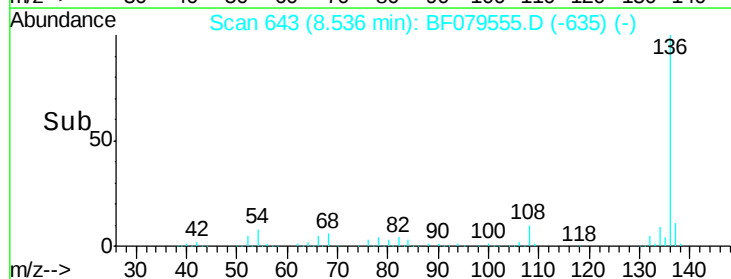
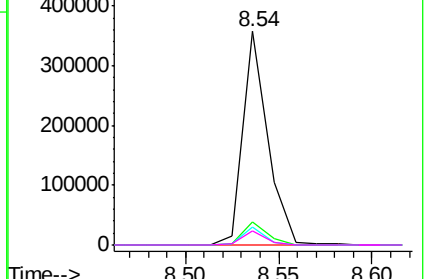


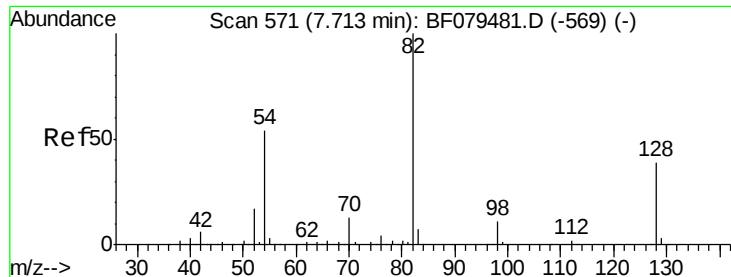
Abundance Ion 136.00 (135.70 to 136.70): E

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: 57.06 ng

RT: 7.67 min Scan# 567

Delta R.T. -0.00 min

Lab File: BF079555.D

Acq: 28 May 2015 20:29

Instrument :

BNA_G

ClientSampleId :

SB-24D

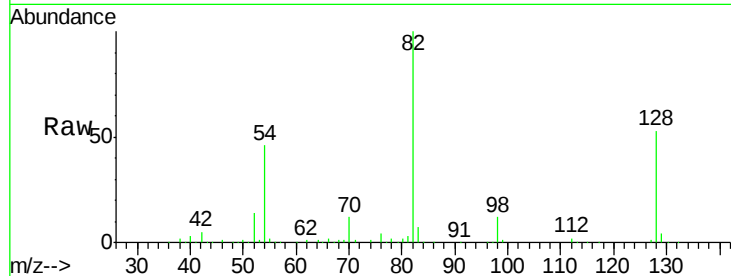
Tgt Ion: 82 Resp: 327173

Ion Ratio Lower Upper

82 100

128 52.7 30.8 46.2#

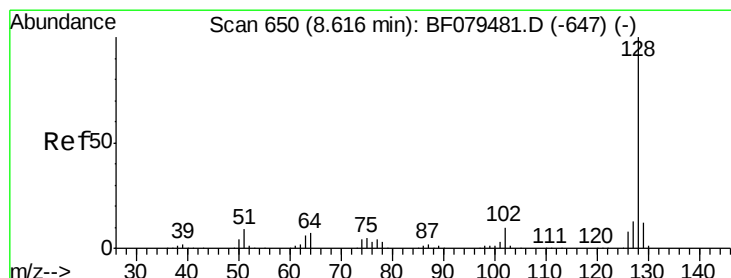
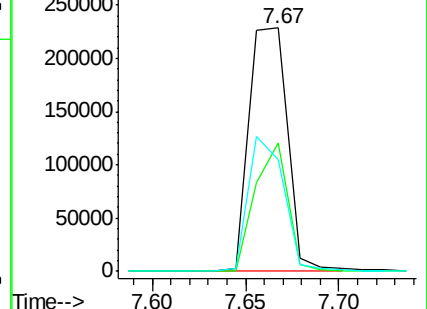
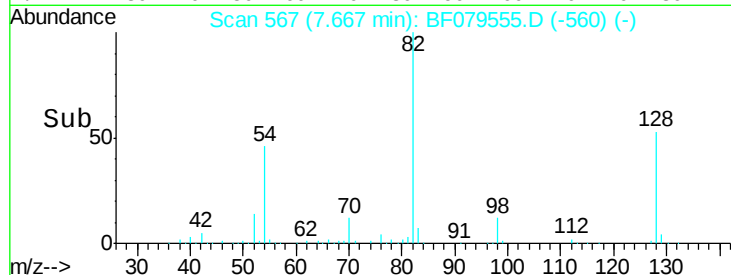
54 46.1 42.8 64.2



Abundance Ion 82.00 (81.70 to 82.70): BF079481.D (-569) (-)

Ion 128.00 (127.70 to 128.70): BF079481.D (-569) (-)

Ion 54.00 (53.70 to 54.70): BF079481.D (-569) (-)



#31

Naphthalene

Concen: 6.90 ng

RT: 8.57 min Scan# 646

Delta R.T. -0.00 min

Lab File: BF079555.D

Acq: 28 May 2015 20:29

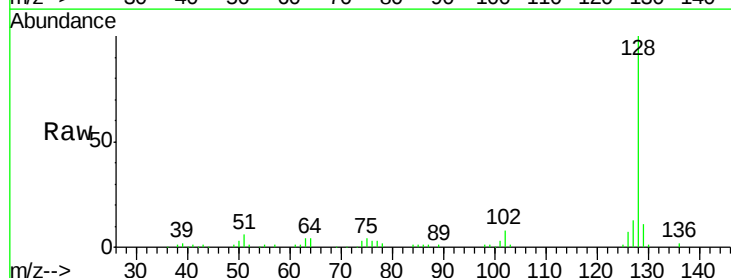
Tgt Ion: 128 Resp: 109821

Ion Ratio Lower Upper

128 100

129 10.5 9.3 13.9

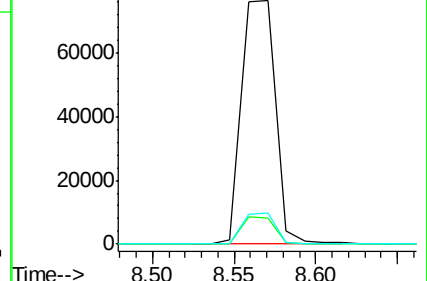
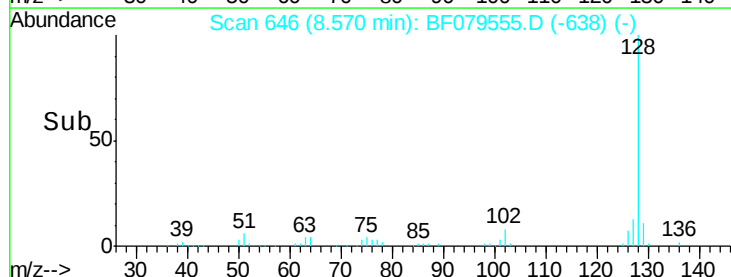
127 12.9 10.6 15.8

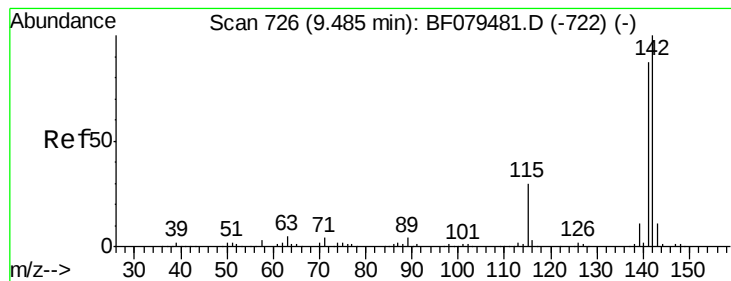


Abundance Ion 128.00 (127.70 to 128.70): BF079481.D (-647) (-)

Ion 129.00 (128.70 to 129.70): BF079481.D (-647) (-)

Ion 127.00 (126.70 to 127.70): BF079481.D (-647) (-)





#37

2-Methylnaphthalene

Concen: 3.96 ng

RT: 9.43 min Scan# 721

Delta R.T. -0.00 min

Lab File: BF079555.D

Acq: 28 May 2015 20:29

Instrument :

BNA_G

ClientSampleId :

SB-24D

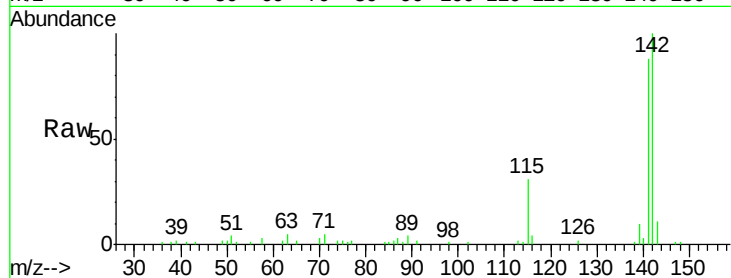
Tgt Ion:142 Resp: 43750

Ion Ratio Lower Upper

142 100

141 88.2 69.5 104.3

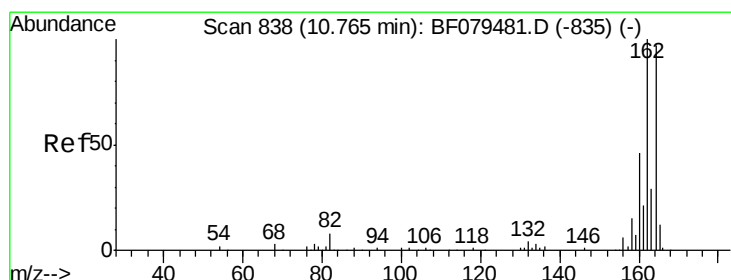
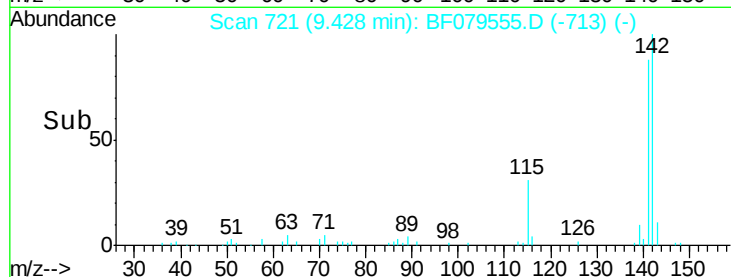
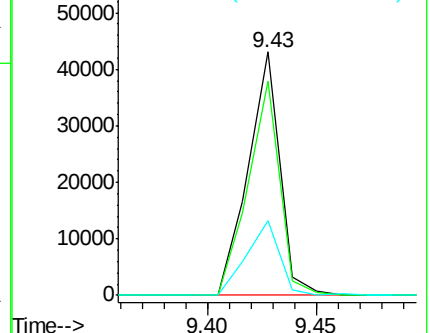
115 30.8 23.8 35.6



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: 10.71 min Scan# 833

Delta R.T. -0.00 min

Lab File: BF079555.D

Acq: 28 May 2015 20:29

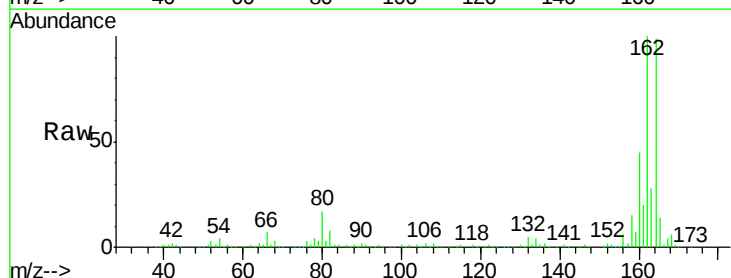
Tgt Ion:164 Resp: 161227

Ion Ratio Lower Upper

164 100

162 100.9 82.6 124.0

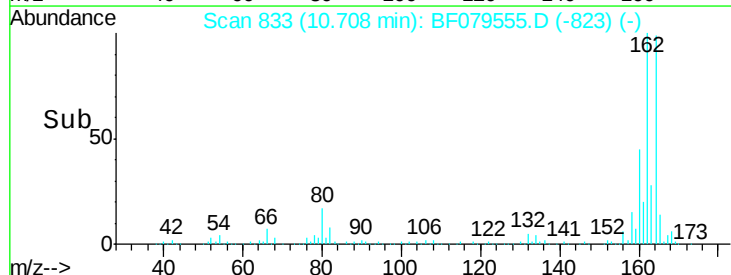
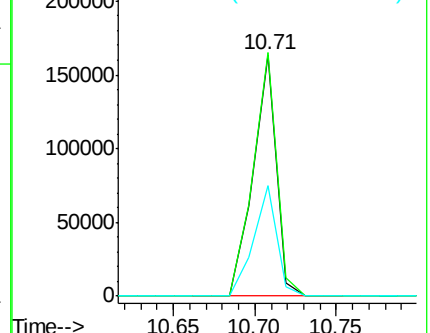
160 45.6 37.7 56.5

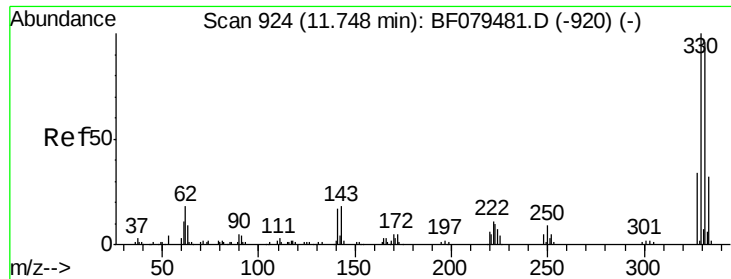


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

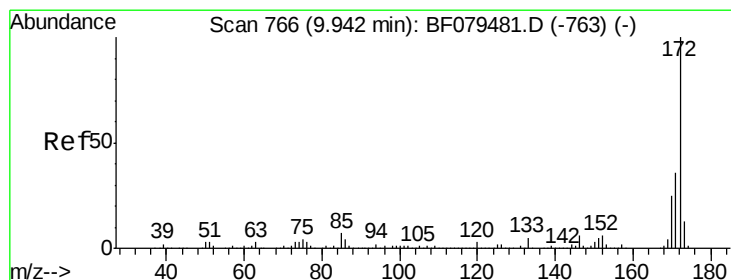
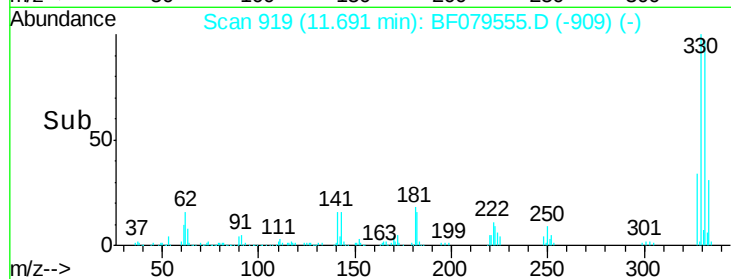
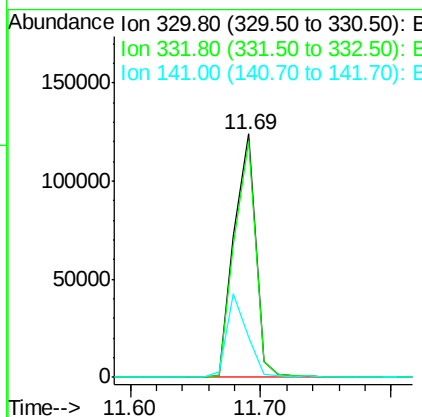
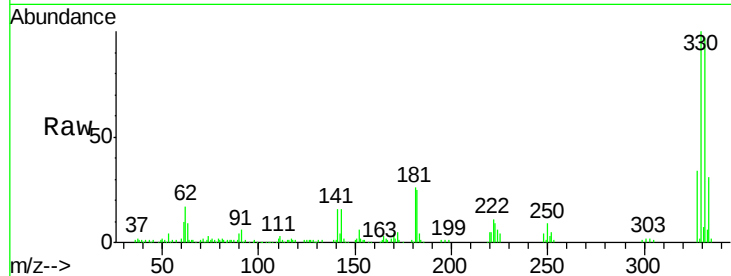




#41
 2,4,6-Tribromophenol
 Concen: 80.68 ng
 RT: 11.69 min Scan# 919
 Delta R.T. -0.00 min
 Lab File: BF079555.D
 Acq: 28 May 2015 20:29

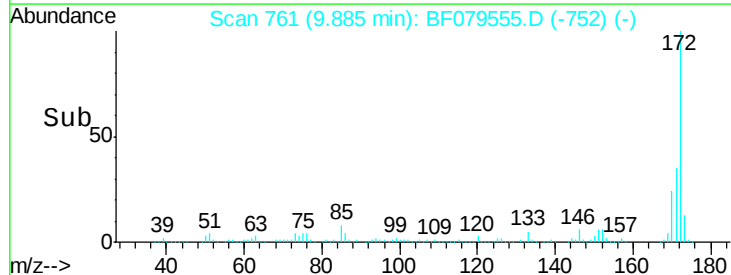
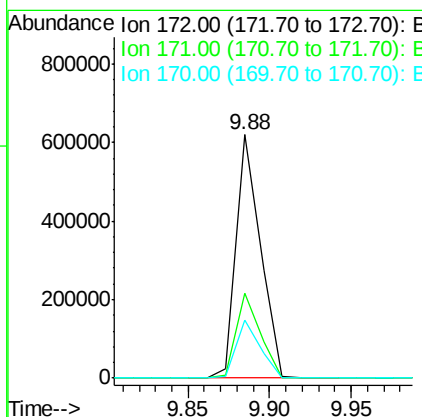
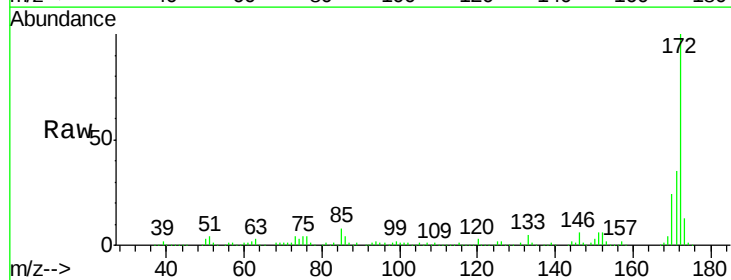
Instrument :
 BNA_G
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 SB-24D

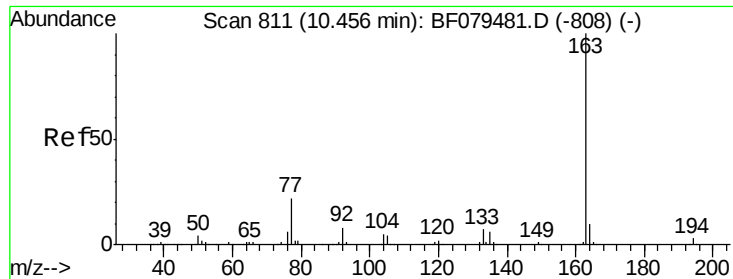
Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.0	0.0	0.0#
141	33.3	0.0	0.0#



#44
 2-Fluorobiphenyl
 Concen: 56.27 ng
 RT: 9.88 min Scan# 761
 Delta R.T. -0.00 min
 Lab File: BF079555.D
 Acq: 28 May 2015 20:29

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.0	28.5	42.7
170	23.8	19.7	29.5

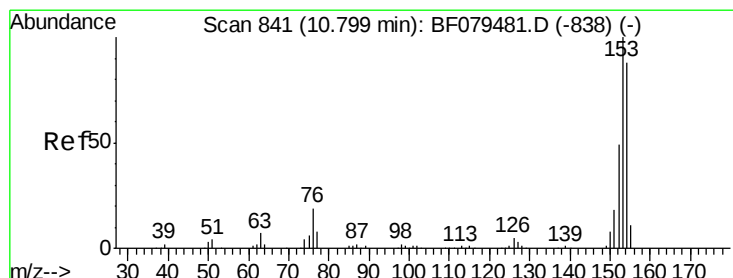
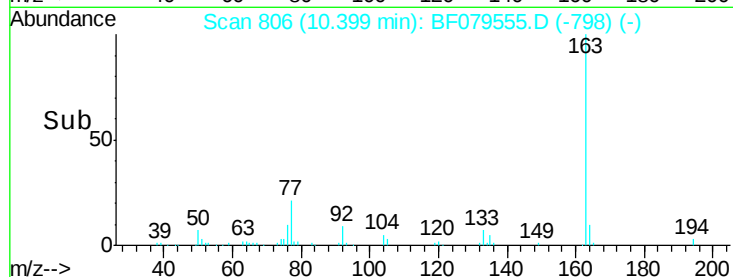
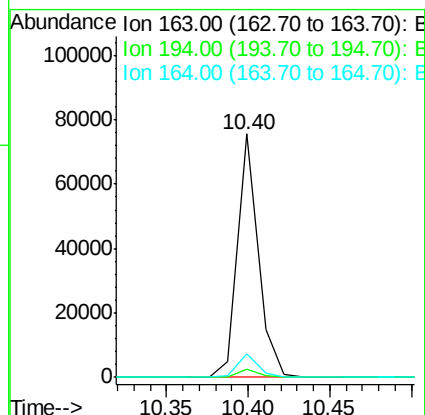
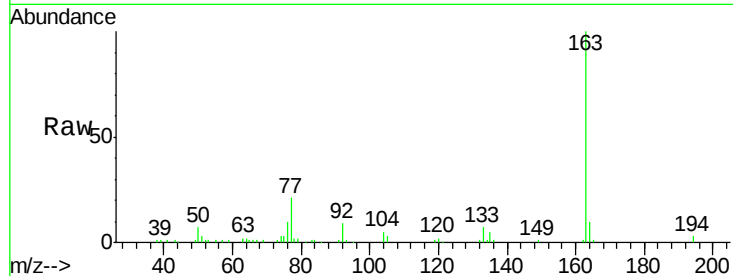




#49
Dimethylphthalate
Concen: 5.58 ng
RT: 10.40 min Scan# 806
Delta R.T. -0.01 min
Lab File: BF079555.D
Acq: 28 May 2015 20:29

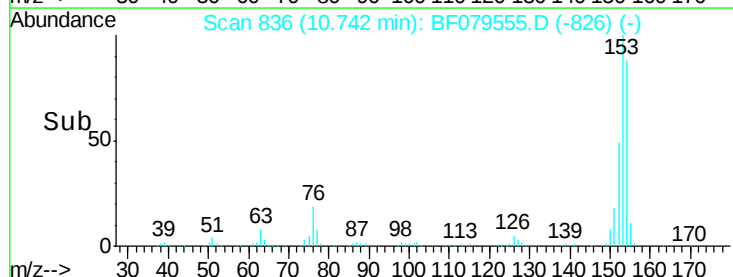
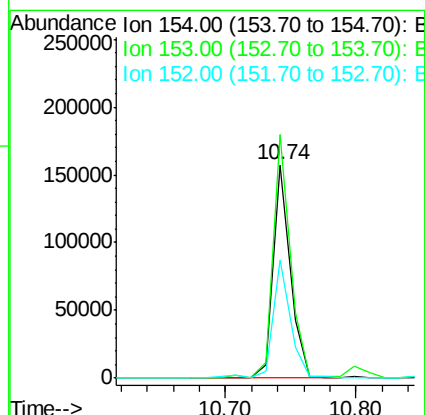
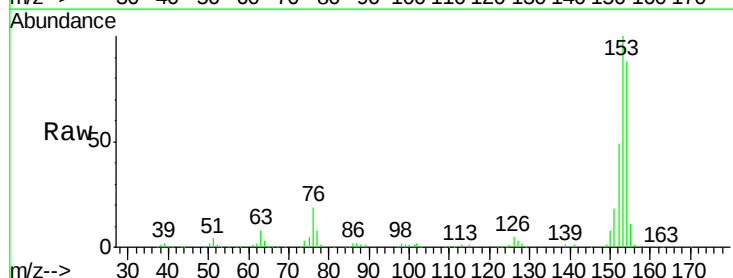
Instrument :
BNA_G
ClientSampleId :
SB-24D

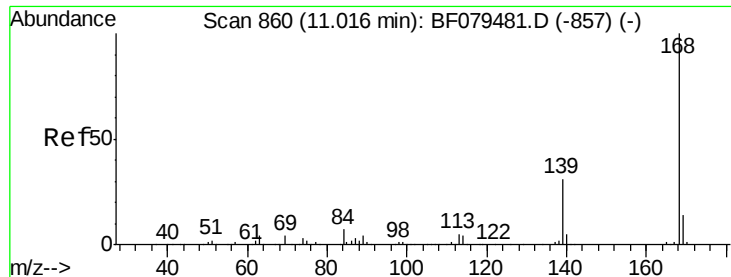
Tgt Ion:163 Resp: 66295
Ion Ratio Lower Upper
163 100
194 3.3 2.4 3.6
164 9.6 8.2 12.4



#51
Acenaphthene
Concen: 15.42 ng
RT: 10.74 min Scan# 836
Delta R.T. -0.00 min
Lab File: BF079555.D
Acq: 28 May 2015 20:29

Tgt Ion:154 Resp: 145567
Ion Ratio Lower Upper
154 100
153 114.1 91.1 136.7
152 55.6 44.6 66.8





#54

Dibenzofuran

Concen: 10.92 ng

RT: 10.96 min Scan# 855

Delta R.T. -0.00 min

Lab File: BF079555.D

Acq: 28 May 2015 20:29

Instrument :

BNA_G

ClientSampleId :

SB-24D

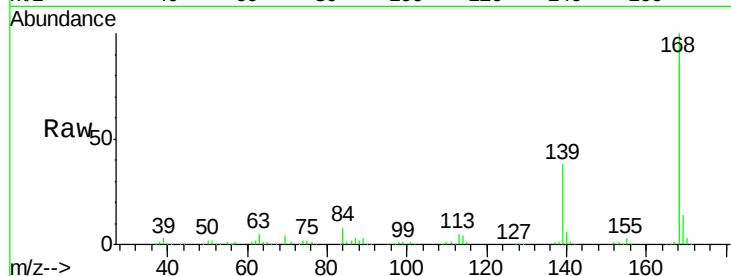
Tgt Ion:168 Resp: 152052

Ion Ratio Lower Upper

168 100

139 38.5 32.9 49.3

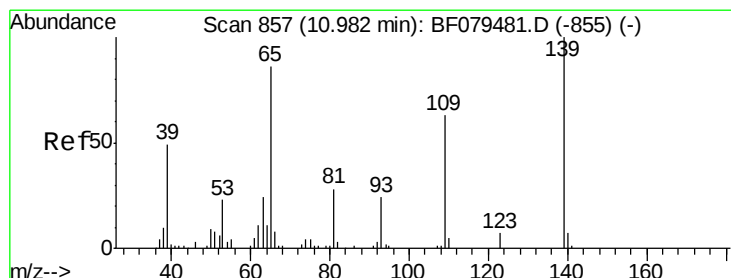
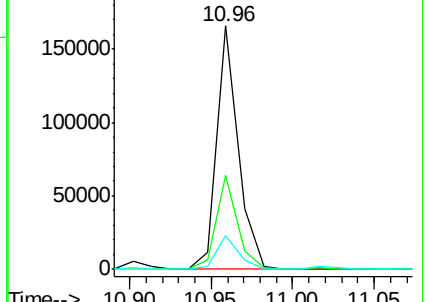
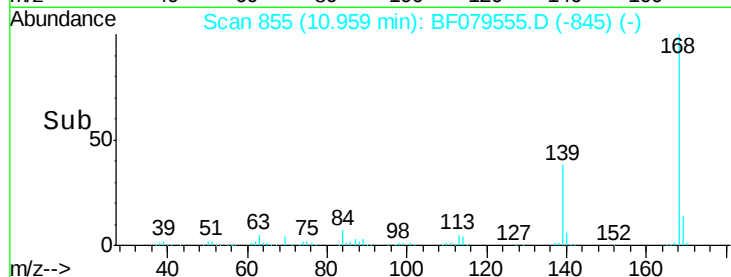
169 13.7 11.1 16.7



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



#55

4-Nitrophenol

Concen: 33.23 ng

RT: 10.96 min Scan# 855

Delta R.T. 0.03 min

Lab File: BF079555.D

Acq: 28 May 2015 20:29

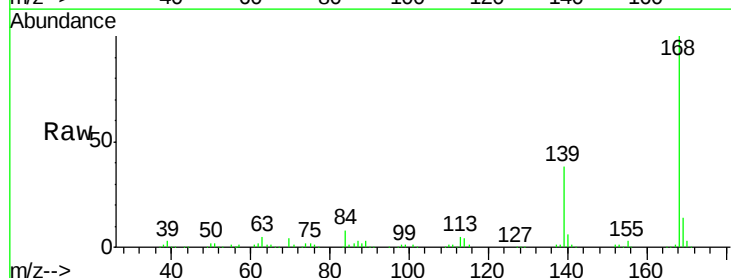
Tgt Ion:139 Resp: 56893

Ion Ratio Lower Upper

139 100

109 1.1 42.8 82.8#

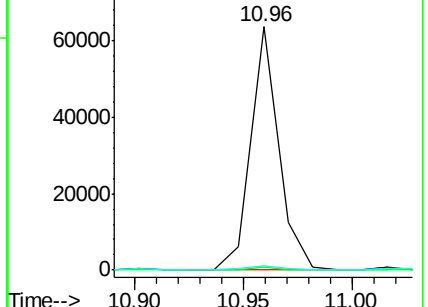
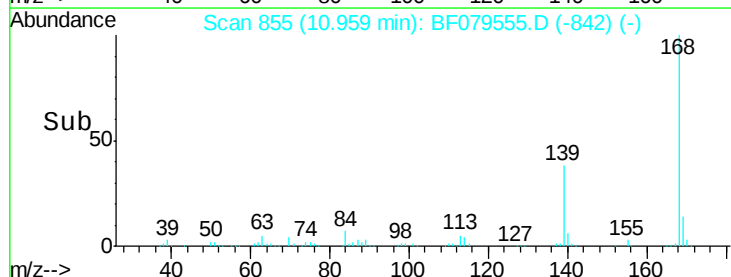
65 1.6 66.3 106.3#

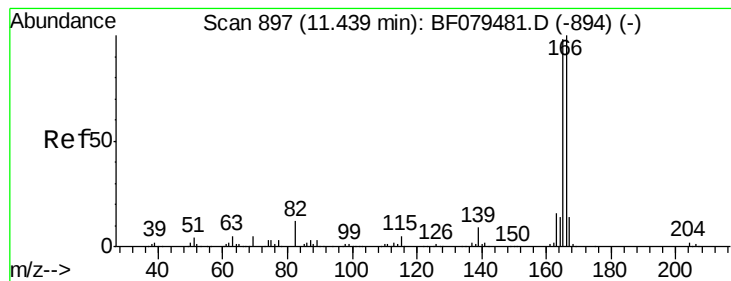


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0





#57

Fluorene

Concen: 18.02 ng

RT: 11.38 min Scan# 892

Delta R.T. -0.00 min

Lab File: BF079555.D

Acq: 28 May 2015 20:29

Instrument :

BNA_G

ClientSampleId :

SB-24D

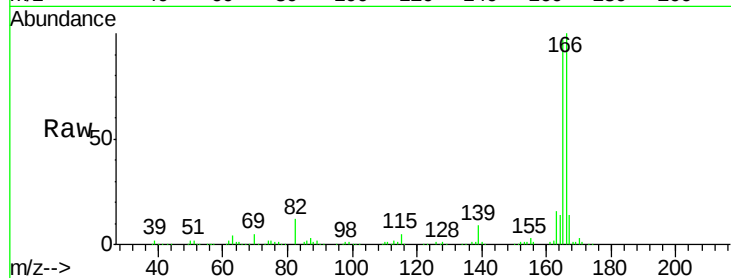
Tgt Ion:166 Resp: 206734

Ion Ratio Lower Upper

166 100

165 97.4 78.6 117.8

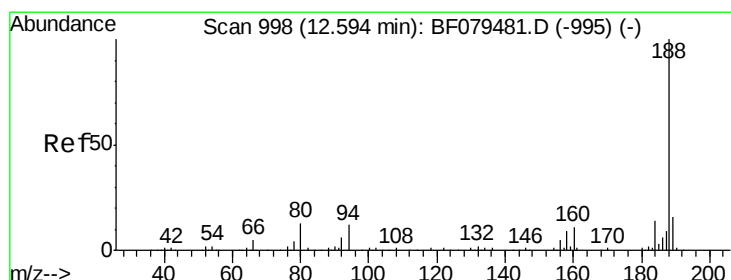
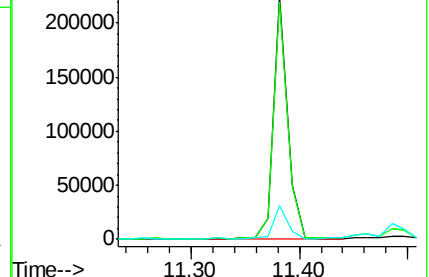
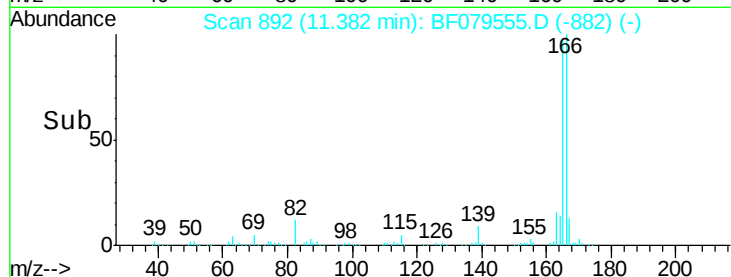
167 13.9 10.8 16.2



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: 12.54 min Scan# 993

Delta R.T. -0.00 min

Lab File: BF079555.D

Acq: 28 May 2015 20:29

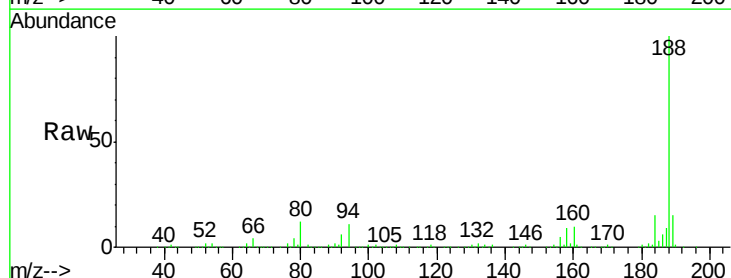
Tgt Ion:188 Resp: 302368

Ion Ratio Lower Upper

188 100

94 11.3 9.8 14.6

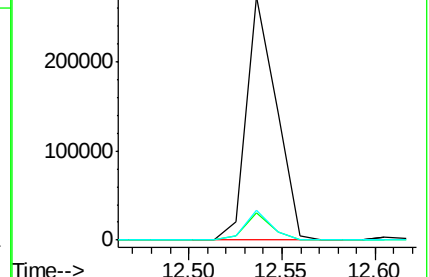
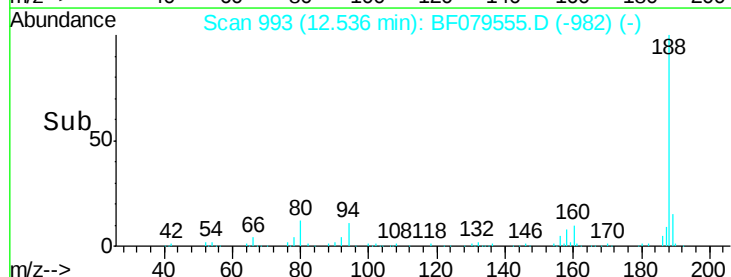
80 12.3 10.5 15.7

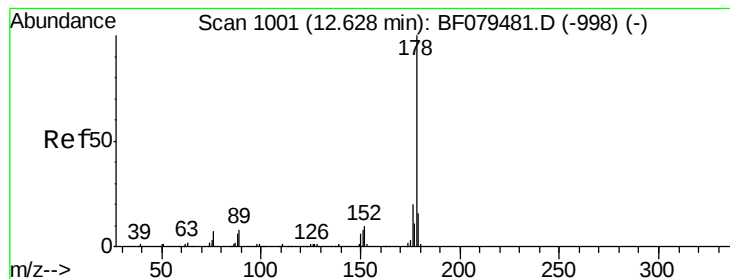


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 89.30 ng

RT: 12.57 min Scan# 996

Delta R.T. -0.00 min

Lab File: BF079555.D

Acq: 28 May 2015 20:29

Instrument :

BNA_G

ClientSampleId :

SB-24D

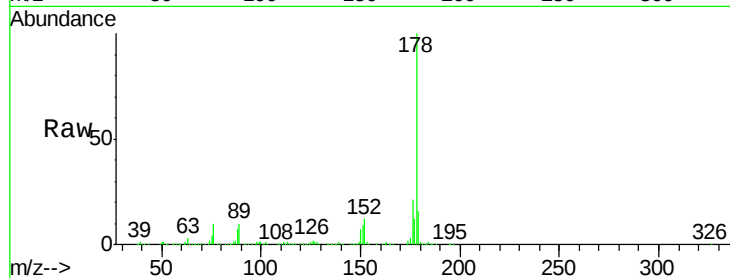
Tgt Ion:178 Resp: 1481281

Ion Ratio Lower Upper

178 100

176 21.3 15.7 23.5

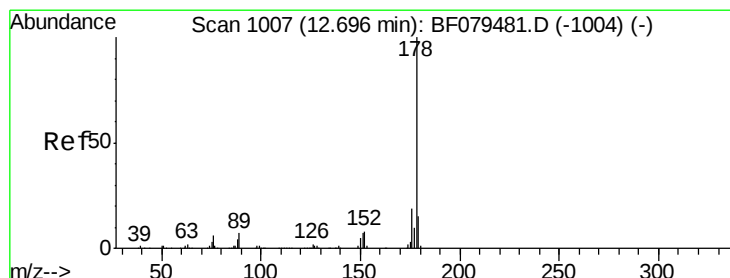
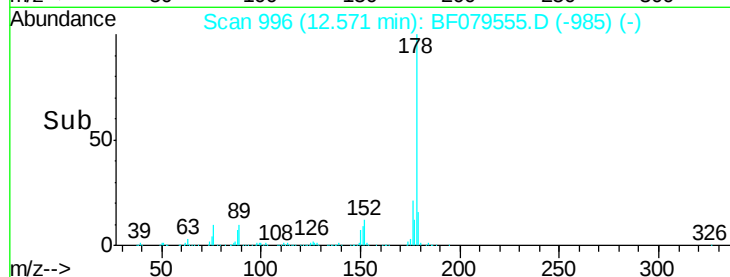
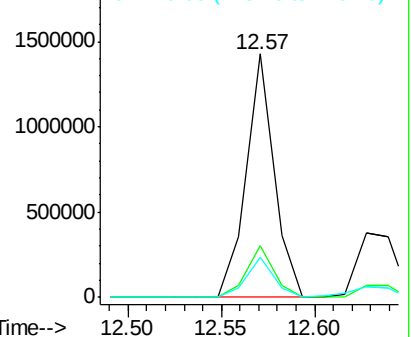
179 16.4 12.4 18.6



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 31.02 ng

RT: 12.63 min Scan# 1001

Delta R.T. -0.00 min

Lab File: BF079555.D

Acq: 28 May 2015 20:29

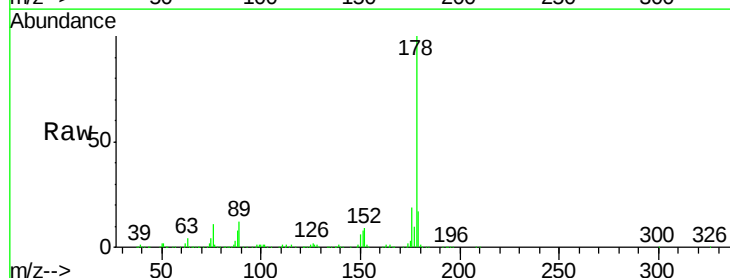
Tgt Ion:178 Resp: 522477

Ion Ratio Lower Upper

178 100

176 18.9 15.3 22.9

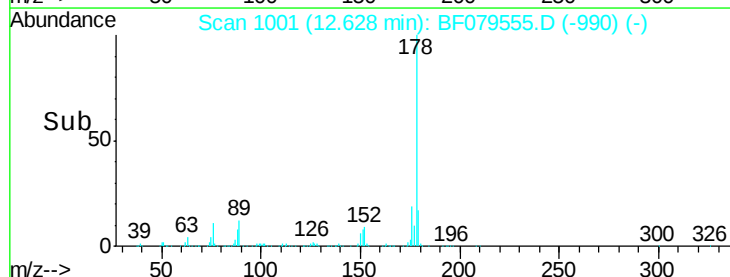
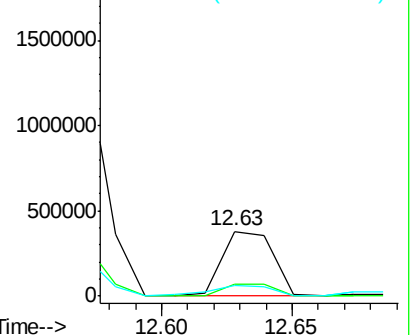
179 16.7 12.2 18.4

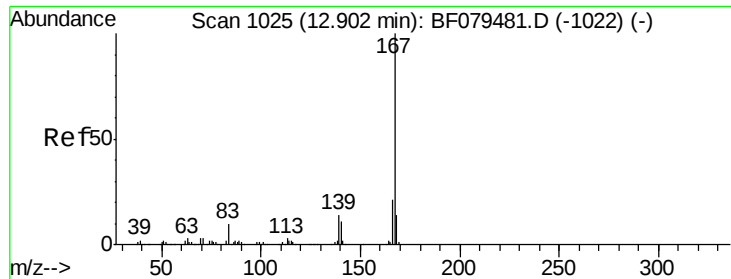


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

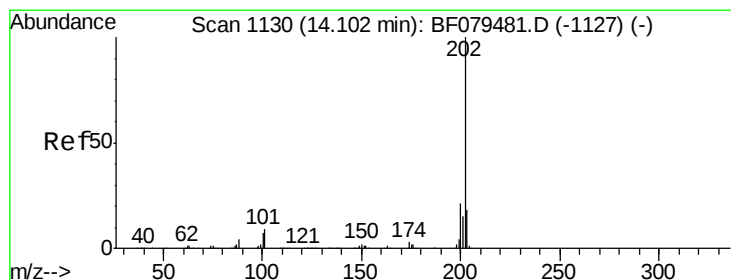
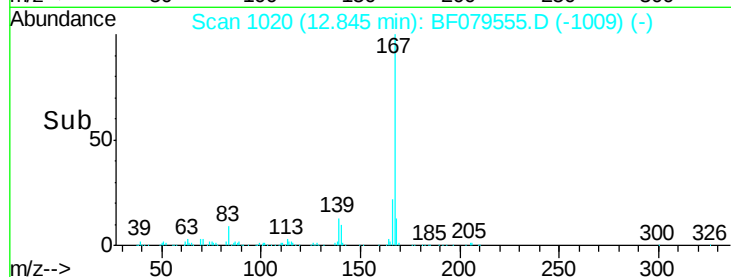
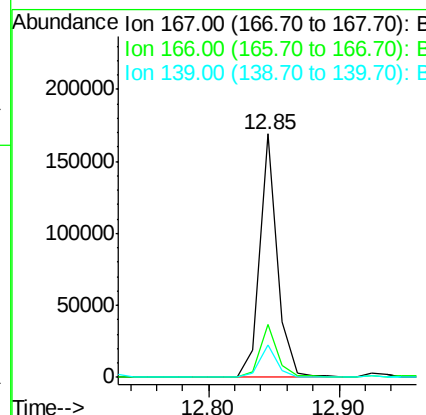
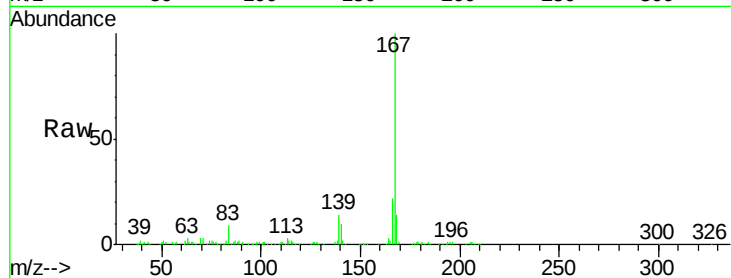




#72
 Carbazole
 Concen: 9.85 ng
 RT: 12.85 min Scan# 1020
 Delta R.T. -0.00 min
 Lab File: BF079555.D
 Acq: 28 May 2015 20:29

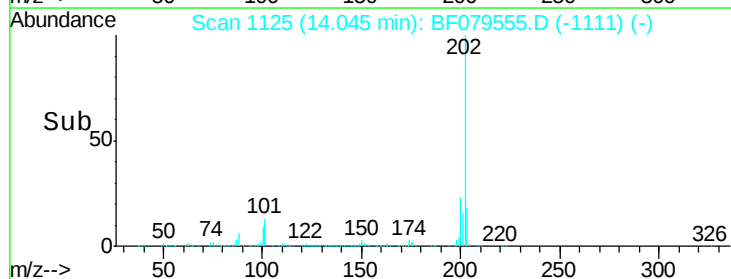
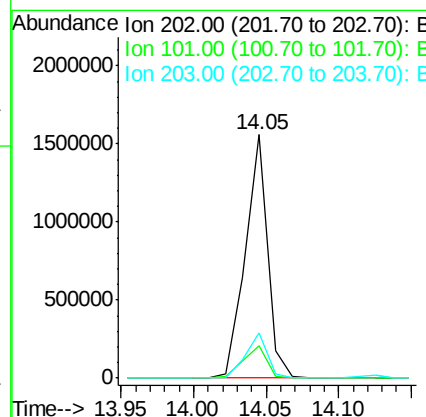
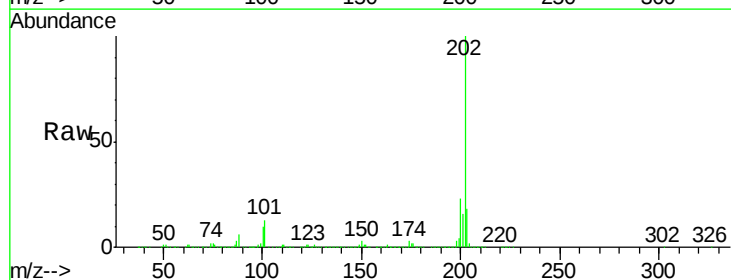
Instrument :
 BNA_G
 ClientSampled :
 SB-24D

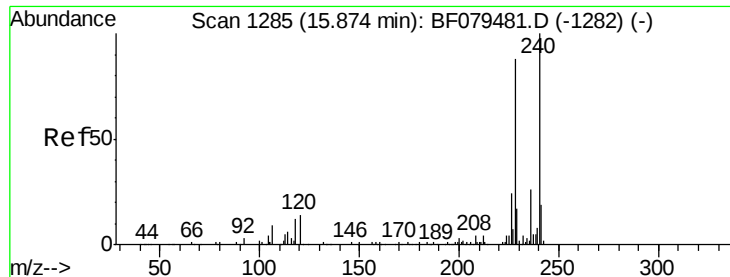
Tgt Ion:167 Resp: 159734
 Ion Ratio Lower Upper
 167 100
 166 21.8 17.0 25.4
 139 13.5 11.2 16.8



#74
 Fluoranthene
 Concen: 93.36 ng
 RT: 14.05 min Scan# 1125
 Delta R.T. 0.01 min
 Lab File: BF079555.D
 Acq: 28 May 2015 20:29

Tgt Ion:202 Resp: 1660692
 Ion Ratio Lower Upper
 202 100
 101 13.5 0.0 29.3
 203 18.4 0.0 37.6





#75

Chrysene-d12

Concen: 20.00 ng

RT: 15.82 min Scan# 1280

Delta R.T. -0.02 min

Lab File: BF079555.D

Acq: 28 May 2015 20:29

Instrument :

BNA_G

ClientSampleId :

SB-24D

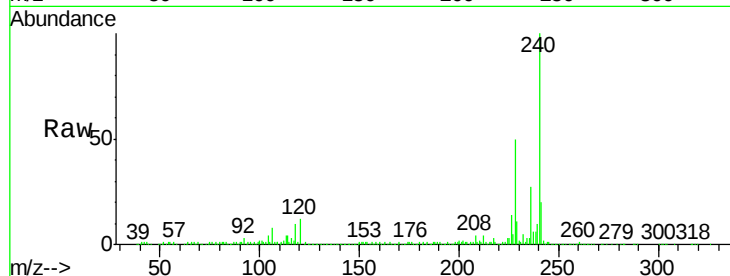
Tgt Ion:240 Resp: 314021

Ion Ratio Lower Upper

240 100

120 11.9 10.8 16.2

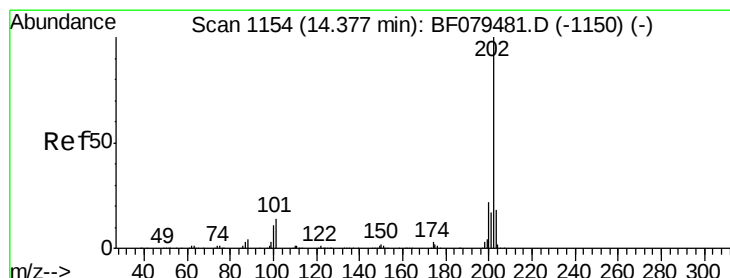
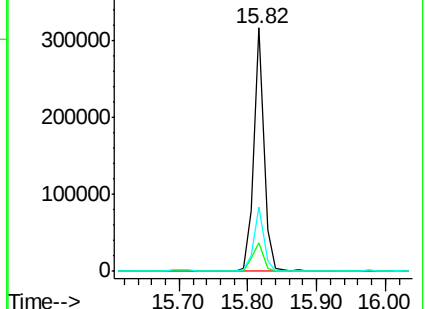
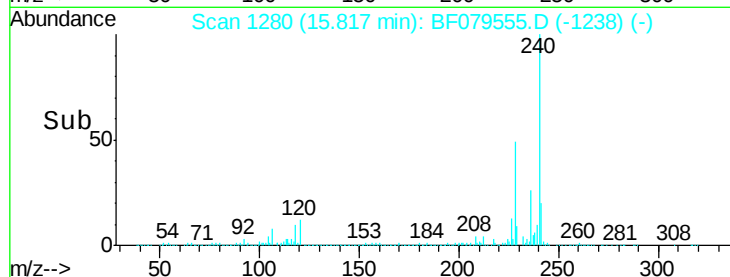
236 26.5 21.0 31.6



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: 73.57 ng

RT: 14.32 min Scan# 1149

Delta R.T. -0.00 min

Lab File: BF079555.D

Acq: 28 May 2015 20:29

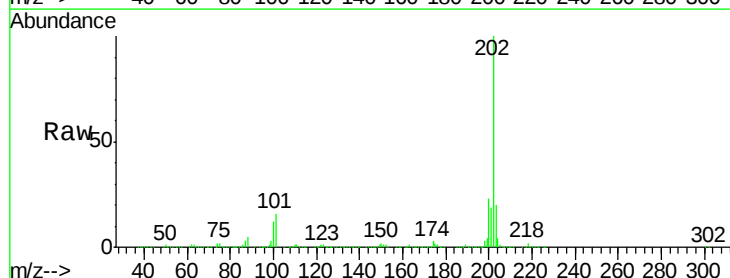
Tgt Ion:202 Resp: 1431357

Ion Ratio Lower Upper

202 100

200 22.6 17.5 26.3

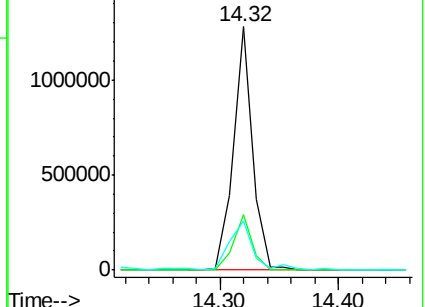
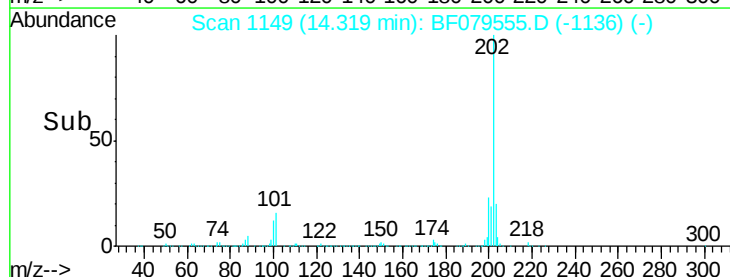
203 20.4 14.4 21.6

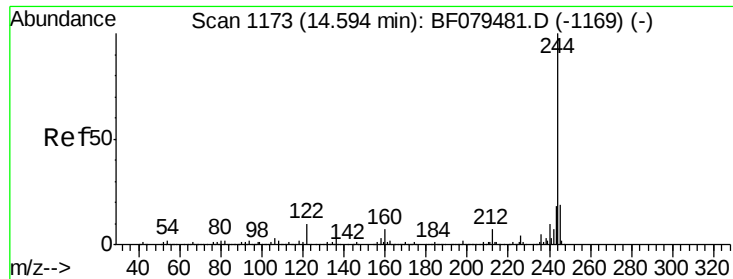


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 54.25 ng

RT: 14.54 min Scan# 1168

Delta R.T. -0.00 min

Lab File: BF079555.D

Acq: 28 May 2015 20:29

Instrument :

BNA_G

ClientSampleId :

SB-24D

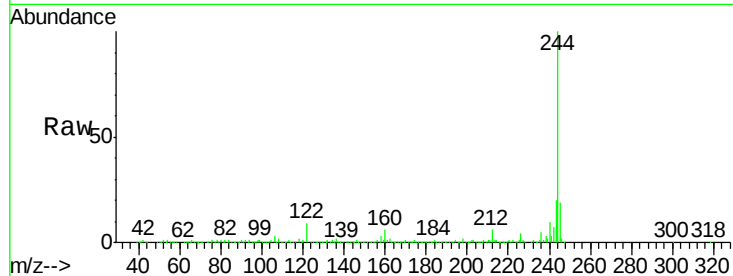
Tgt Ion:244 Resp: 725894

Ion Ratio Lower Upper

244 100

212 6.4 5.2 7.8

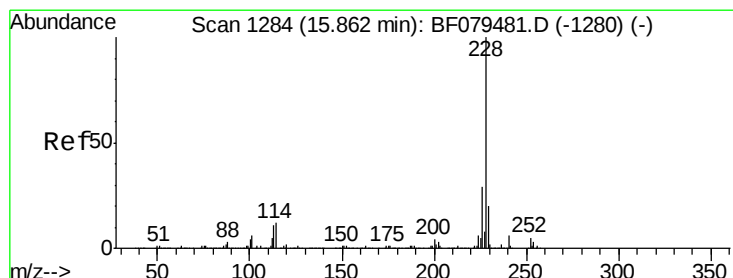
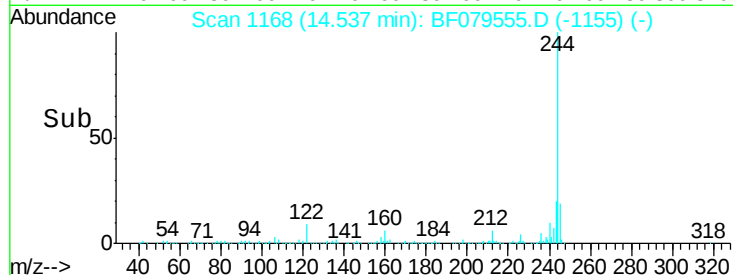
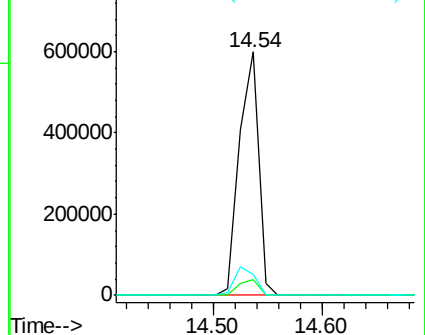
122 8.8 8.0 12.0



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: 48.16 ng

RT: 15.81 min Scan# 1279

Delta R.T. -0.02 min

Lab File: BF079555.D

Acq: 28 May 2015 20:29

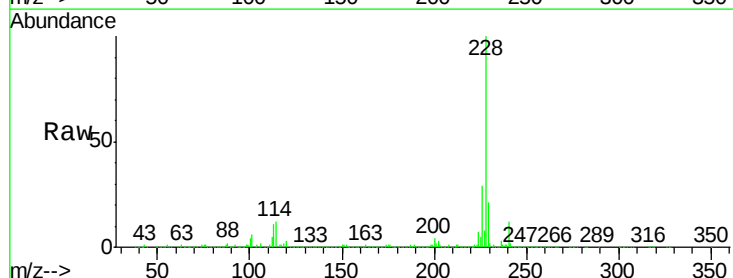
Tgt Ion:228 Resp: 869936

Ion Ratio Lower Upper

228 100

226 29.4 22.8 34.2

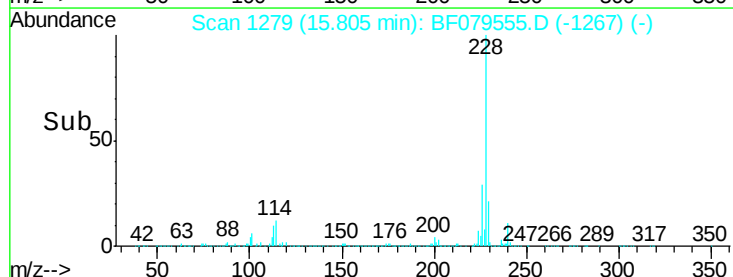
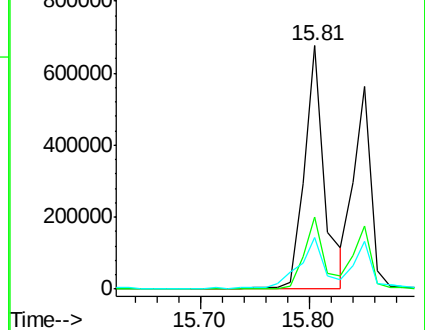
229 21.1 15.9 23.9

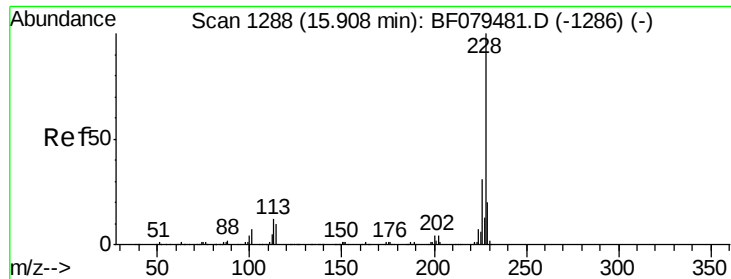


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 36.63 ng

RT: 15.85 min Scan# 1283

Delta R.T. -0.02 min

Lab File: BF079555.D

Acq: 28 May 2015 20:29

Instrument :

BNA_G

ClientSampleId :

SB-24D

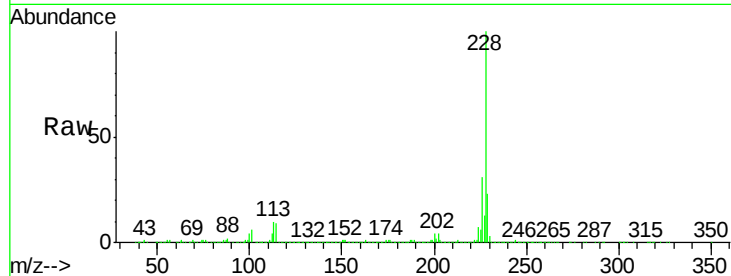
Tgt Ion:228 Resp: 628987

Ion Ratio Lower Upper

228 100

226 31.1 25.0 37.4

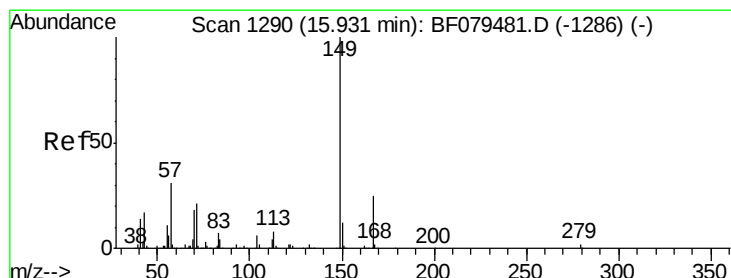
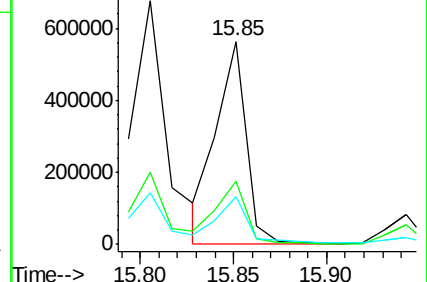
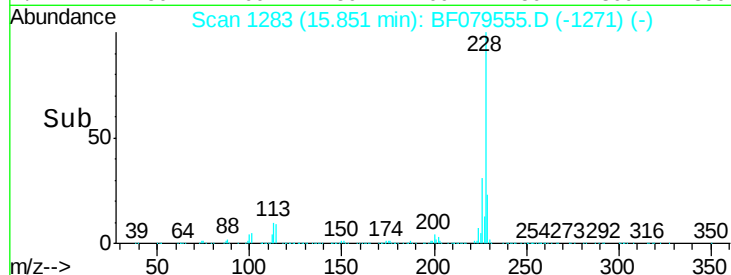
229 23.3 15.9 23.9



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



#83

Bis(2-ethylhexyl)phthalate

Concen: 4.18 ng

RT: 15.87 min Scan# 1285

Delta R.T. -0.03 min

Lab File: BF079555.D

Acq: 28 May 2015 20:29

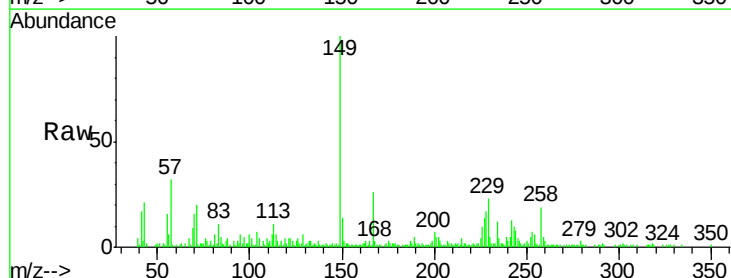
Tgt Ion:149 Resp: 52410

Ion Ratio Lower Upper

149 100

167 26.3 20.2 30.4

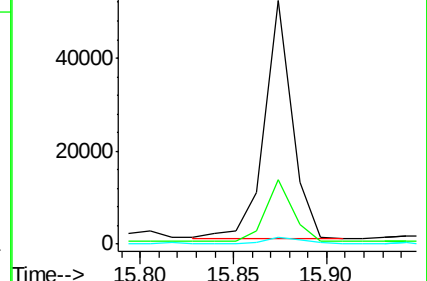
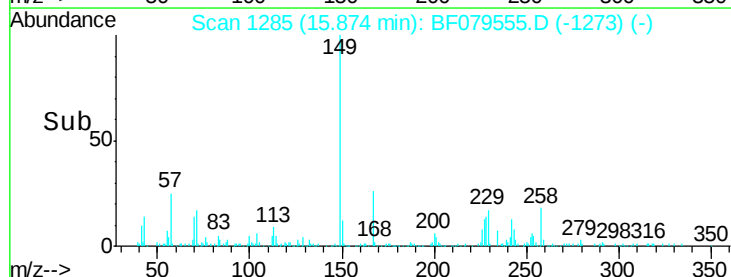
279 3.1 2.0 3.0#

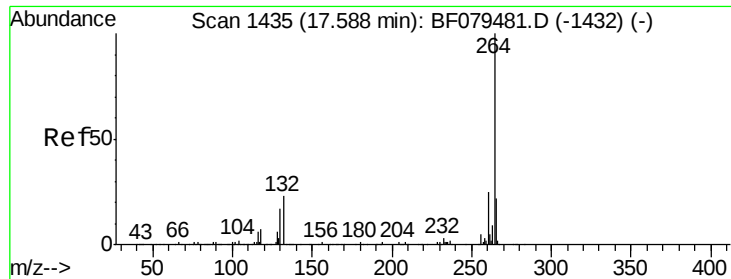


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

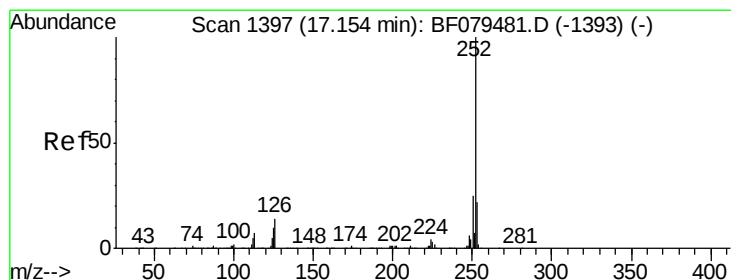
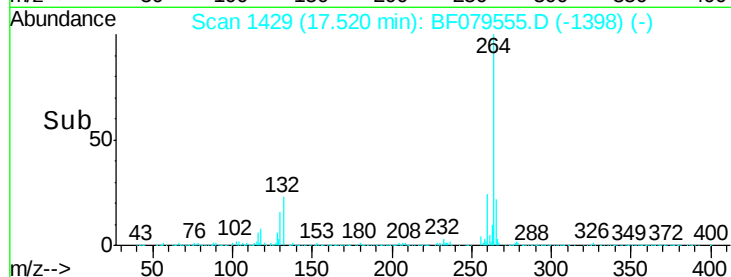
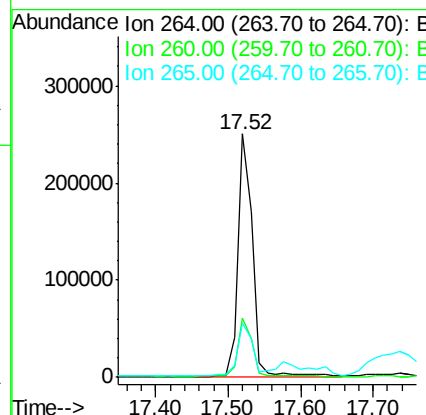
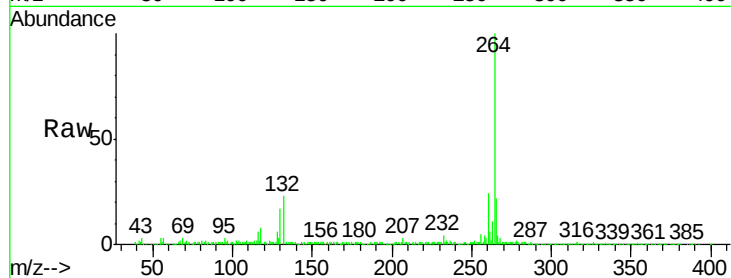




#86
Perylene-d12
Concen: 20.00 ng
RT: 17.52 min Scan# 1429
Delta R.T. -0.15 min
Lab File: BF079555.D
Acq: 28 May 2015 20:29

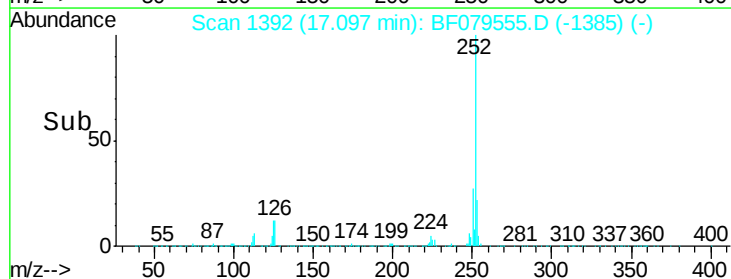
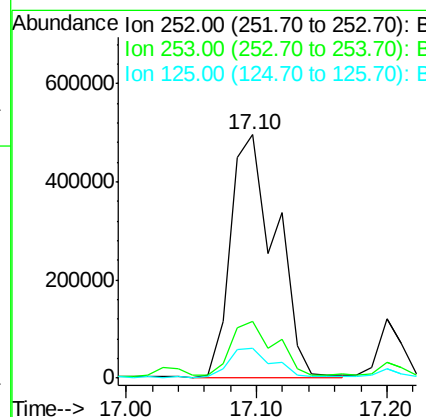
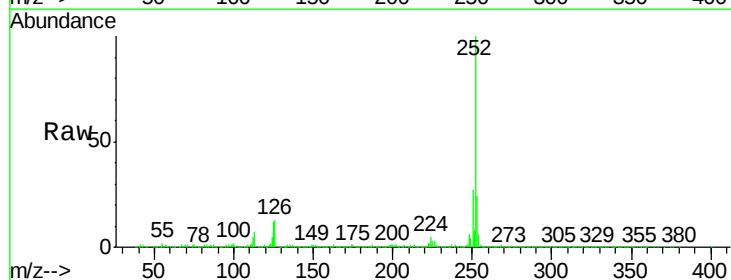
Instrument :
BNA_G
ClientSampleId :
SB-24D

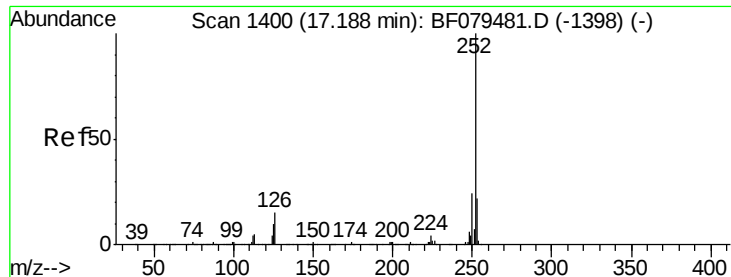
Tgt Ion:264 Resp: 340535
Ion Ratio Lower Upper
264 100
260 24.4 19.8 29.8
265 22.5 17.8 26.6



#87
Benzo(b)fluoranthene
Concen: 60.77 ng
RT: 17.10 min Scan# 1392
Delta R.T. -0.10 min
Lab File: BF079555.D
Acq: 28 May 2015 20:29

Tgt Ion:252 Resp: 1180256
Ion Ratio Lower Upper
252 100
253 23.5 17.6 26.4
125 12.3 7.8 11.6#

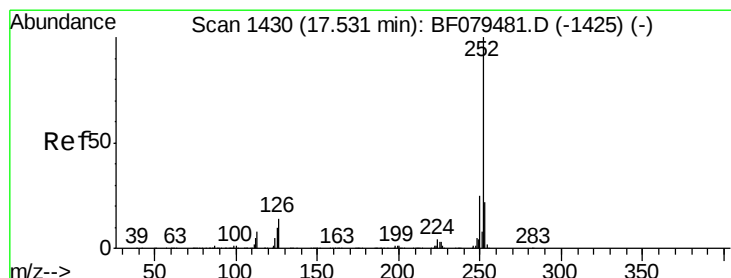
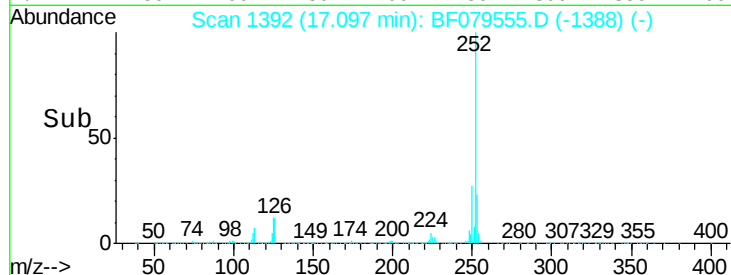
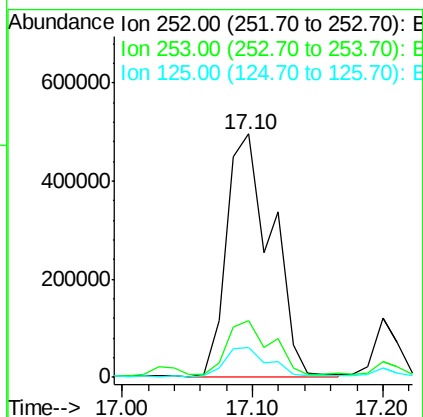
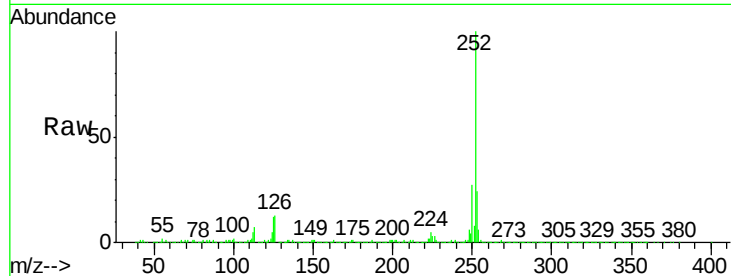




#88
Benzo(k)fluoranthene
Concen: 67.96 ng
RT: 17.10 min Scan# 1392
Delta R.T. -0.14 min
Lab File: BF079555.D
Acq: 28 May 2015 20:29

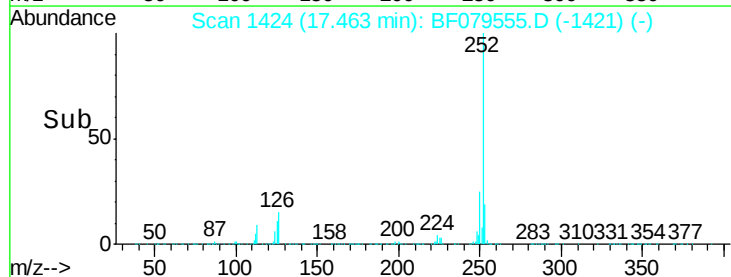
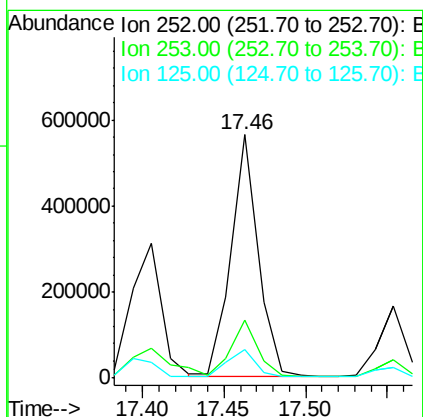
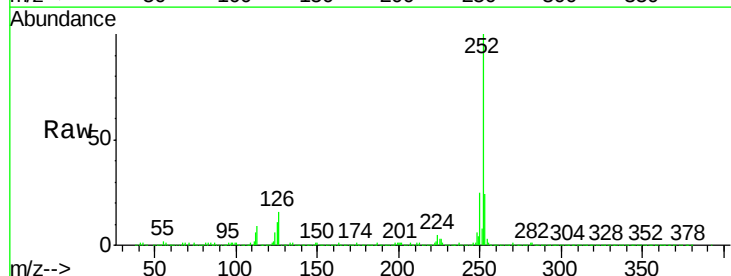
Instrument :
BNA_G
ClientSampleId :
SB-24D

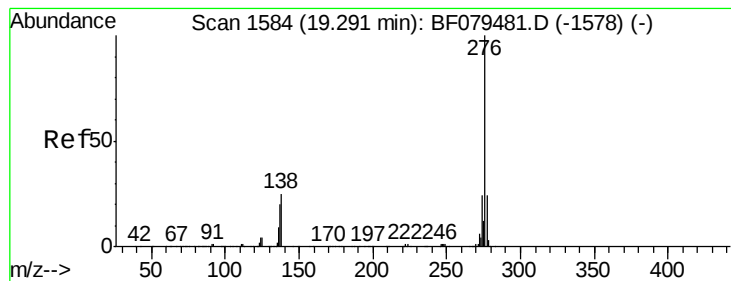
Tgt Ion:252 Resp: 1180256
Ion Ratio Lower Upper
252 100
253 23.5 17.2 25.8
125 12.3 6.8 10.2#



#89
Benzo(a)pyrene
Concen: 37.90 ng
RT: 17.46 min Scan# 1424
Delta R.T. -0.15 min
Lab File: BF079555.D
Acq: 28 May 2015 20:29

Tgt Ion:252 Resp: 650583
Ion Ratio Lower Upper
252 100
253 23.6 17.8 26.8
125 11.5 7.9 11.9





#91

Benzo(g,h,i)perylene

Concen: 20.01 ng

RT: 19.19 min Scan# 1575

Delta R.T. -0.22 min

Lab File: BF079555.D

Acq: 28 May 2015 20:29

Instrument :

BNA_G

ClientSampleId :

SB-24D

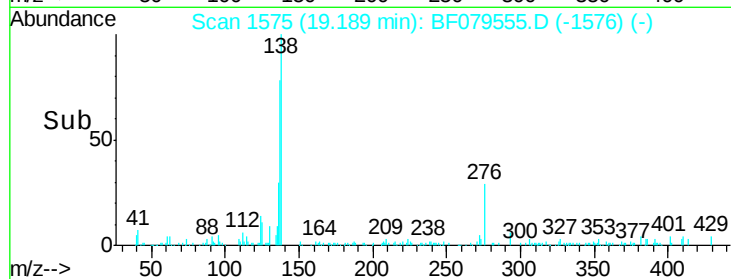
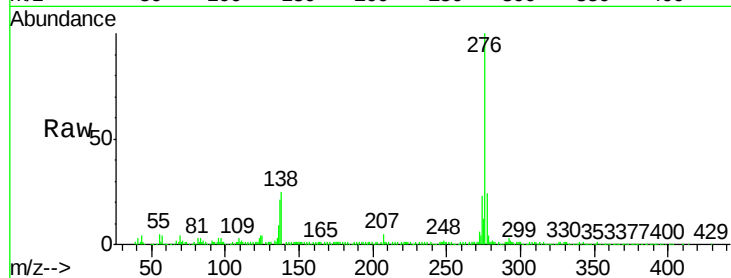
Tgt Ion: 276 Resp: 368189

Ion Ratio Lower Upper

276 100

277 23.8 19.1 28.7

138 25.4 20.1 30.1



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

