

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF053015\
 Data File : BF079608.D
 Acq On : 30 May 2015 17:45
 Operator : TP/IZ
 Sample : G2420-16
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PENRD8.8(5)

Quant Time: May 31 05:46:44 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 29 17:35:14 2015
 Response via : Initial Calibration

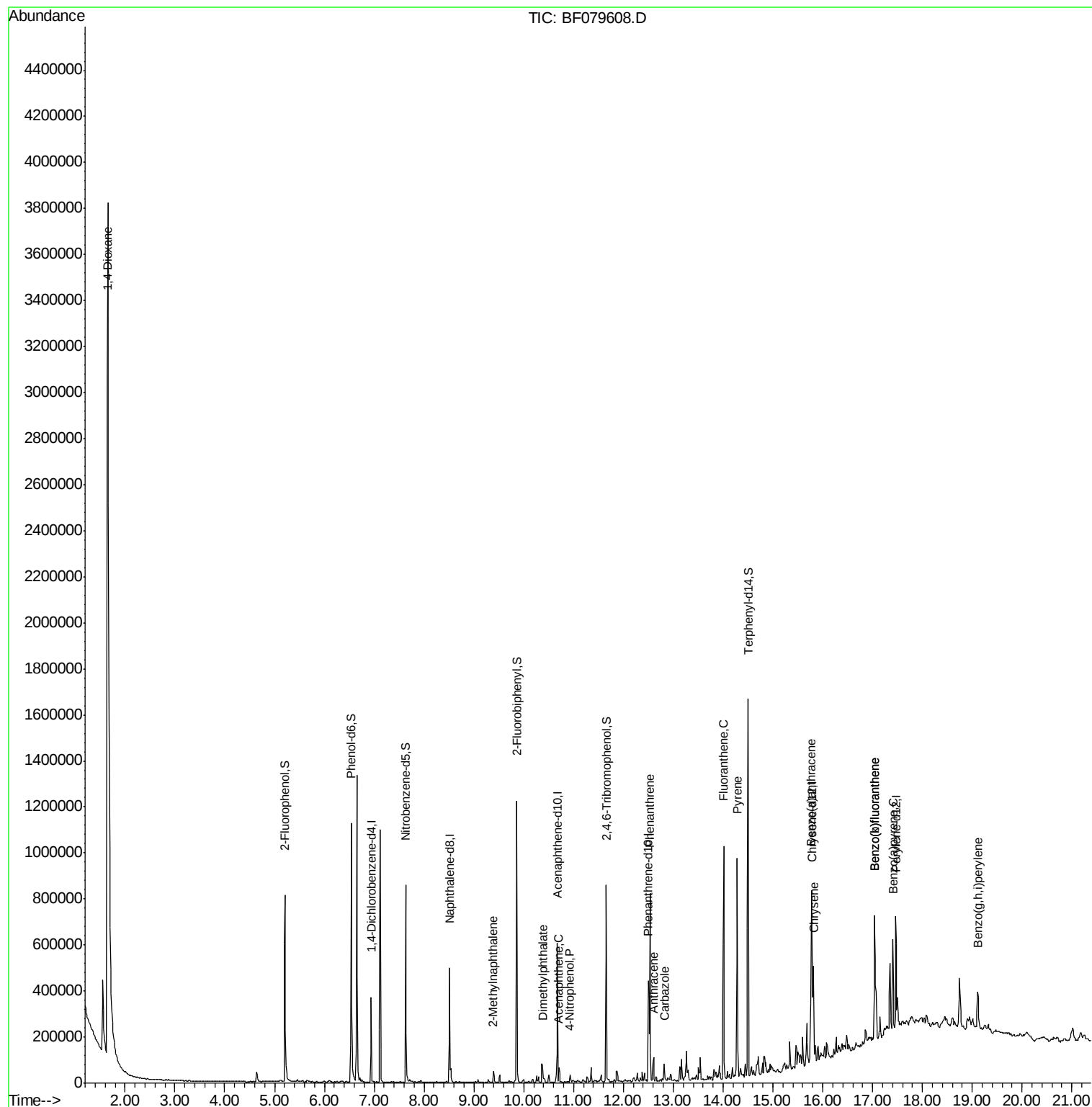
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.94	152	65211	20.00	ng	-0.02
21) Naphthalene-d8	8.51	136	257153	20.00	ng	-0.02
38) Acenaphthene-d10	10.67	164	123712	20.00	ng	-0.03
63) Phenanthrene-d10	12.50	188	226738	20.00	ng	-0.03
75) Chrysene-d12	15.78	240	248588	20.00	ng	-0.06
86) Perylene-d12	17.46	264	251616	20.00	ng	-0.21
System Monitoring Compounds						
5) 2-Fluorophenol	5.21	112	377060	100.29	ng	-0.02
7) Phenol-d6	6.54	99	498724	104.07	ng	-0.02
23) Nitrobenzene-d5	7.63	82	285443	64.17	ng	-0.03
41) 2,4,6-Tribromophenol	11.66	330	140767	103.60	ng	-0.03
44) 2-Fluorobiphenyl	9.86	172	529540	61.07	ng	-0.02
78) Terphenyl-d14	14.50	244	587985	55.51	ng	-0.03
Target Compounds						
2) 1,4-Dioxane	1.66	88	246309	137.72	ng	Qvalue # 100
9) Benzaldehyde	6.54	77	725	Below Cal		# 1
37) 2-Methylnaphthalene	9.39	142	17405	2.03	ng	97
49) Dimethylphthalate	10.38	163	52008	5.71	ng	# 99
51) Acenaphthene	10.71	154	18352	2.53	ng	99
55) 4-Nitrophenol	10.92	139	6419	4.89	ng	# 12
70) Phenanthrene	12.54	178	330340	26.56	ng	99
71) Anthracene	12.61	178	59447	4.71	ng	100
72) Carbazole	12.82	167	49813	4.10	ng	98
73) Di-n-butylphthalate	13.27	149	1208	Below Cal		# 7
74) Fluoranthene	14.01	202	510734	38.29	ng	99
77) Pyrene	14.29	202	421788	27.39	ng	99
80) Benzo(a)anthracene	15.77	228	266614	18.64	ng	99
82) Chrysene	15.82	228	206369	15.18	ng	97
87) Benzo(b)fluoranthene	17.04	252	429167	29.91	ng	98
88) Benzo(k)fluoranthene	17.04	252	429167	33.44	ng	# 96
89) Benzo(a)pyrene	17.41	252	194633	14.15	ng	98
90) Dibenzo(a,h)anthracene	18.82	278	10548	Below Cal		# 66
91) Benzo(g,h,i)perylene	19.11	276	132973	8.11	ng	98

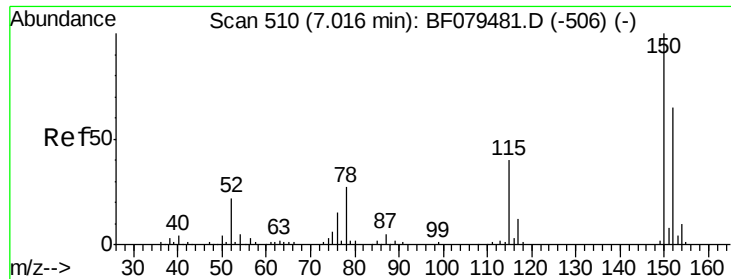
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.94 min Scan# 503

Delta R.T. -0.02 min

Lab File: BF079608.D

Acq: 30 May 2015 17:45

Instrument :

BNA_F

ClientSampled :

PENRD8.8(5)

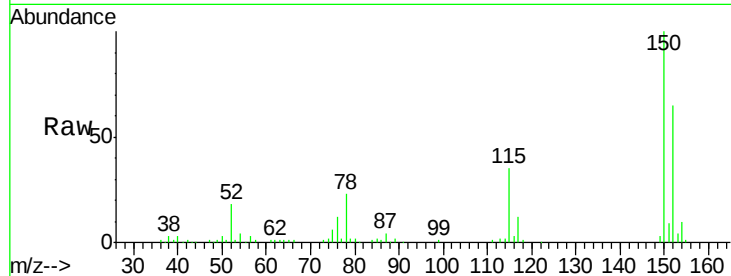
Tgt Ion:152 Resp: 65211

Ion Ratio Lower Upper

152 100

150 153.4 124.0 186.0

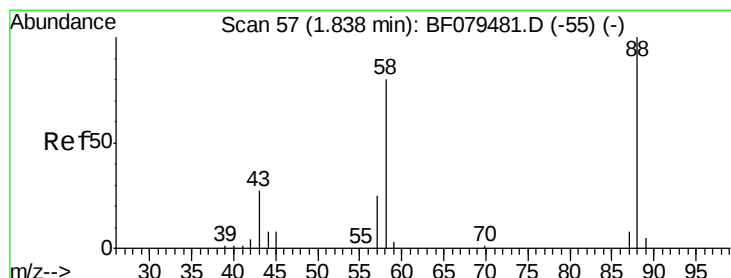
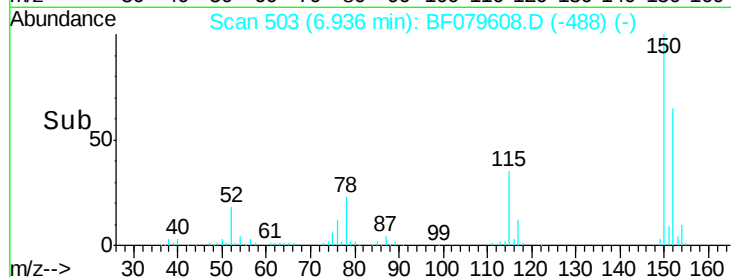
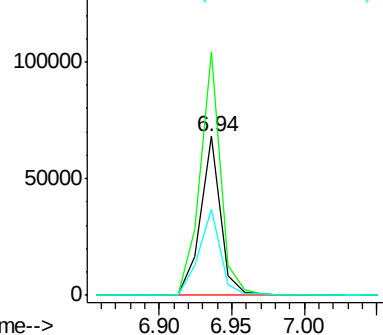
115 54.2 49.6 74.4



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



#2

1,4-Dioxane

Concen: 137.72 ng

RT: 1.66 min Scan# 41

Delta R.T. -0.11 min

Lab File: BF079608.D

Acq: 30 May 2015 17:45

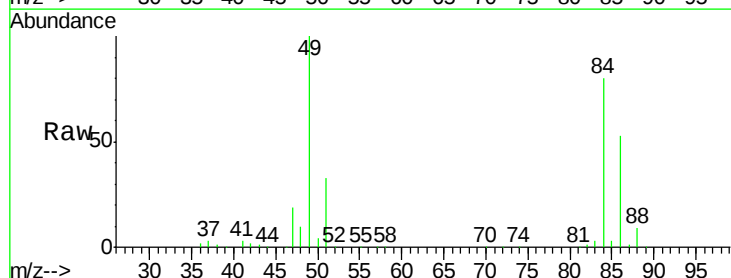
Tgt Ion: 88 Resp: 246309

Ion Ratio Lower Upper

88 100

58 0.0 0.0 0.0

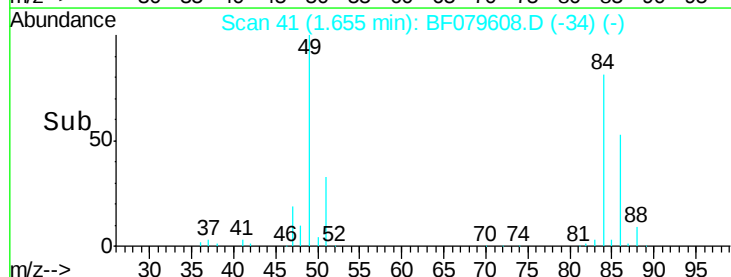
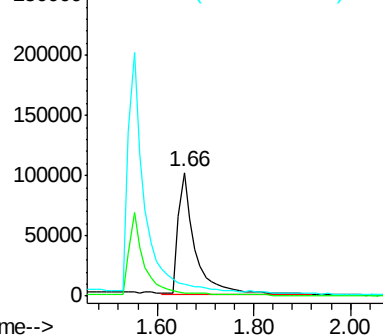
43 0.0 0.0 0.0

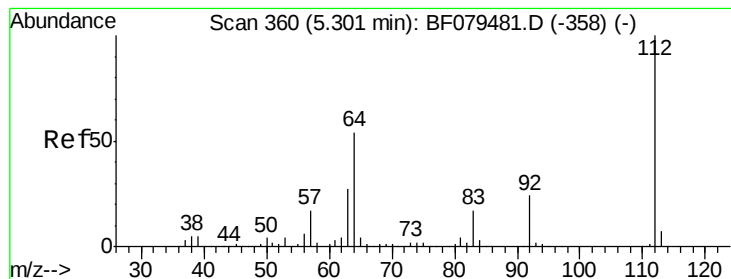


Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0





#5

2-Fluorophenol

Concen: 100.29 ng

RT: 5.21 min Scan# 352

Delta R.T. -0.02 min

Lab File: BF079608.D

Acq: 30 May 2015 17:45

Instrument :

BNA_F

ClientSampleId :

PENRD8.8(5)

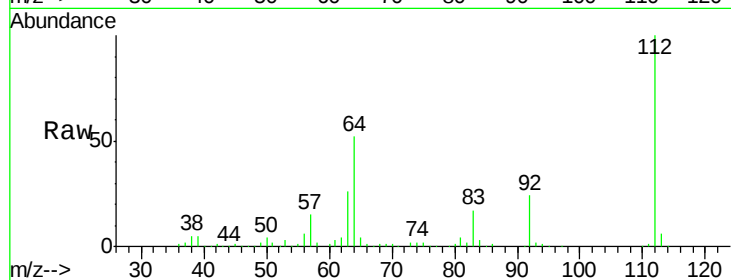
Tgt Ion: 112 Resp: 377060

Ion Ratio Lower Upper

112 100

64 52.4 43.5 65.3

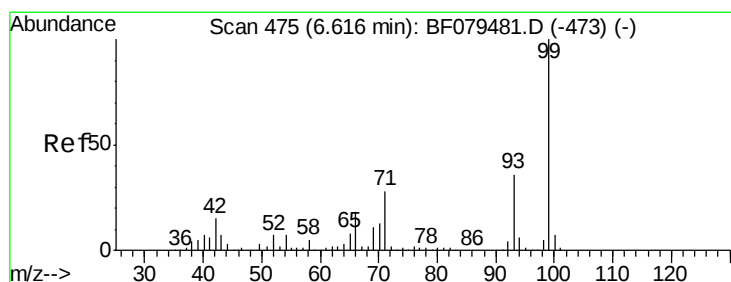
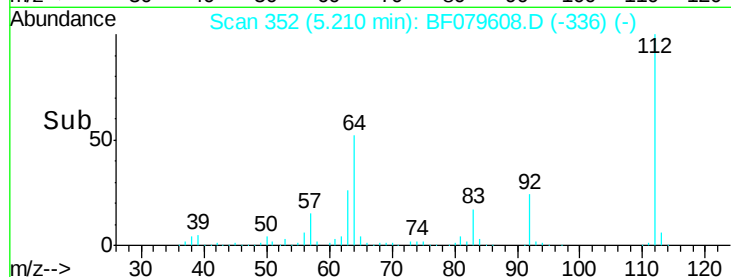
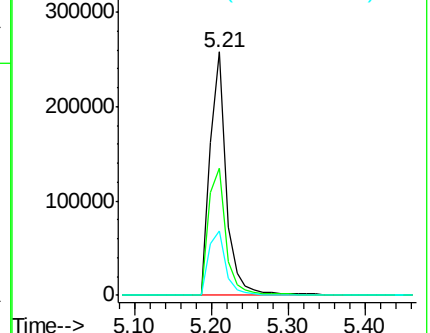
63 26.5 21.8 32.8



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: 104.07 ng

RT: 6.54 min Scan# 468

Delta R.T. -0.02 min

Lab File: BF079608.D

Acq: 30 May 2015 17:45

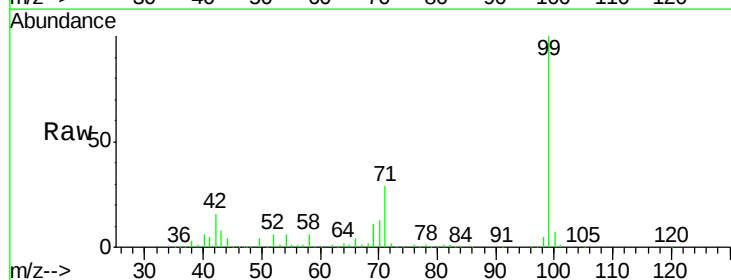
Tgt Ion: 99 Resp: 498724

Ion Ratio Lower Upper

99 100

42 15.9 11.9 17.9

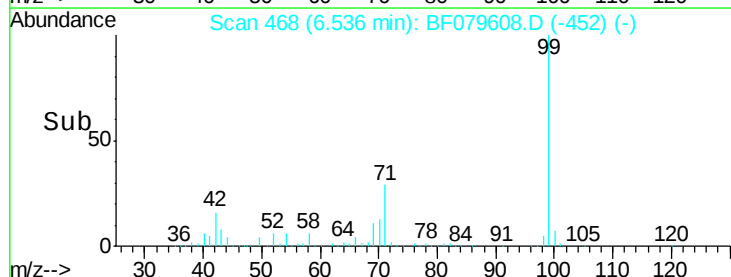
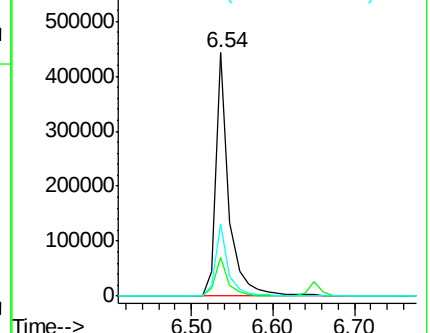
71 29.4 22.1 33.1

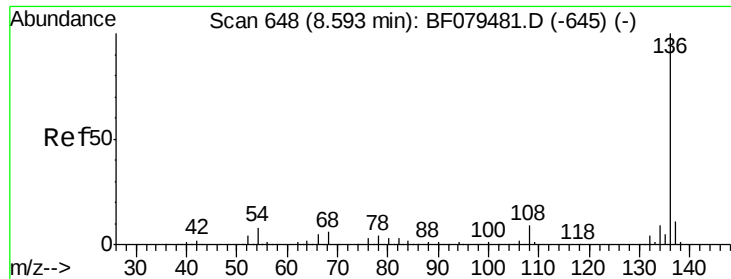


Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0

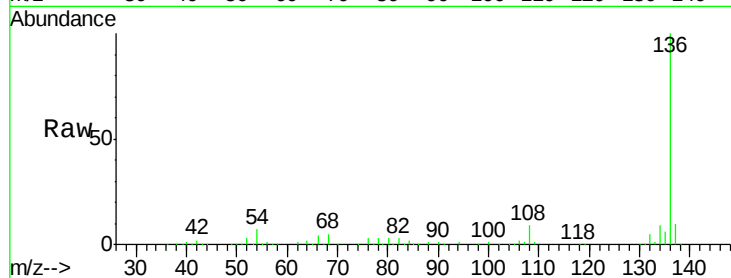




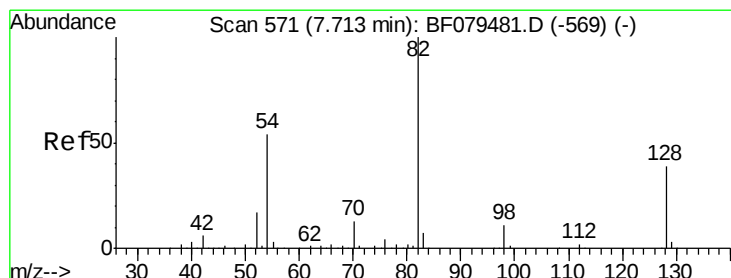
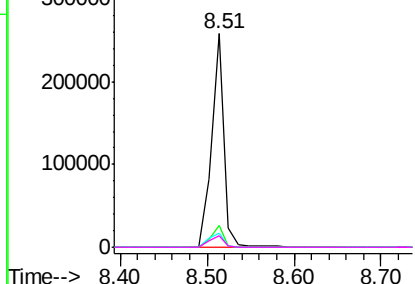
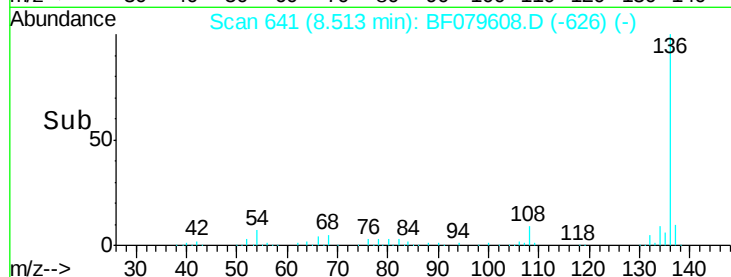
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.51 min Scan# 641
Delta R.T. -0.02 min
Lab File: BF079608.D
Acq: 30 May 2015 17:45

Instrument :
BNA_F
ClientSampleId :
PENRD8.8(5)

Tgt Ion:	136	Resp:	257153
Ion	Ratio	Lower	Upper
136	100		
137	10.0	8.5	12.7
54	6.6	6.6	9.8
68	5.3	4.7	7.1

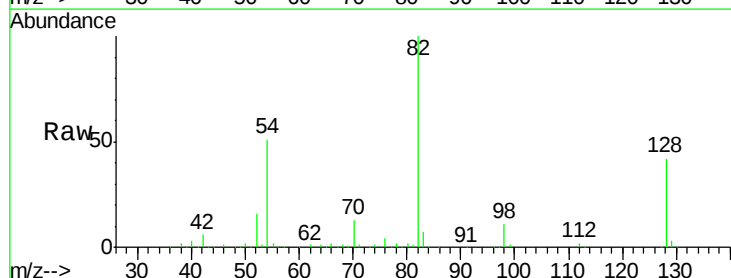


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

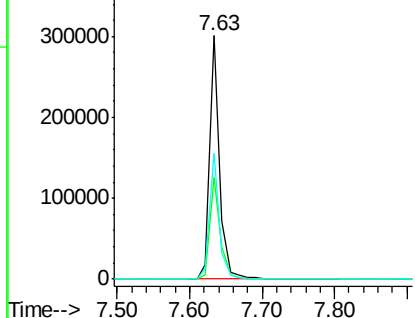
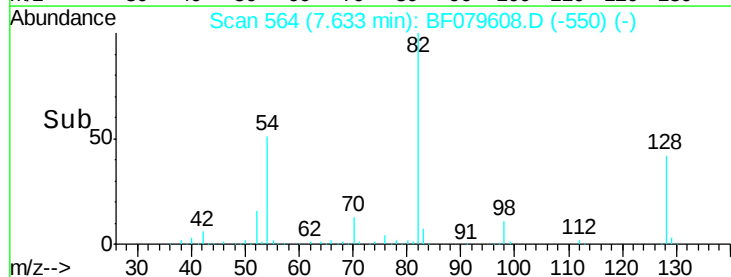


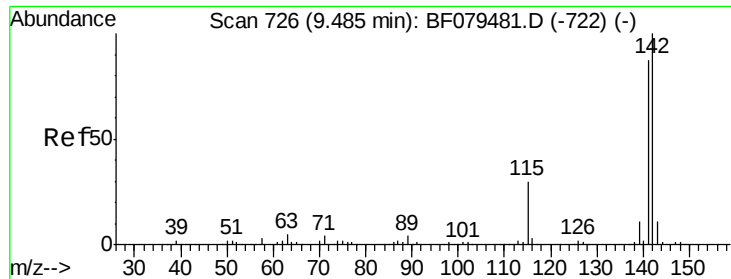
#23
Nitrobenzene-d5
Concen: 64.17 ng
RT: 7.63 min Scan# 564
Delta R.T. -0.03 min
Lab File: BF079608.D
Acq: 30 May 2015 17:45

Tgt Ion:	82	Resp:	285443
Ion	Ratio	Lower	Upper
82	100		
128	41.9	30.8	46.2
54	51.5	42.8	64.2



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

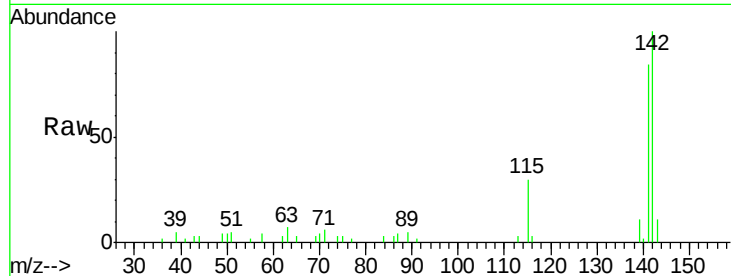




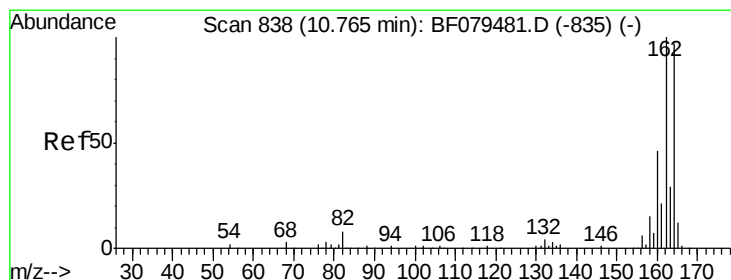
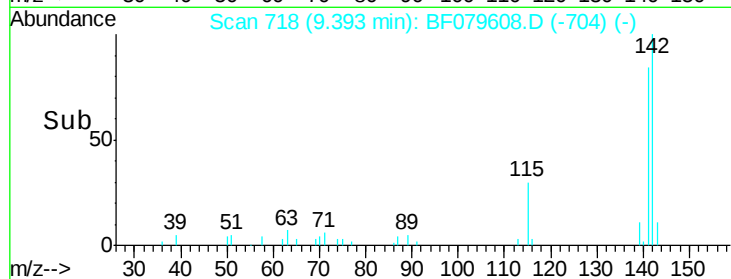
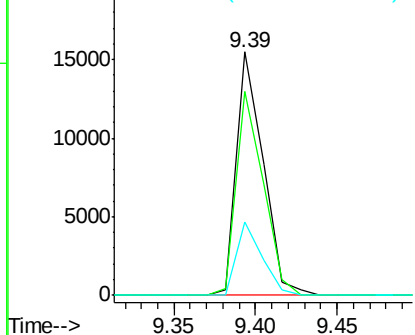
#37
 2-Methylnaphthalene
 Concen: 2.03 ng
 RT: 9.39 min Scan# 718
 Delta R.T. -0.03 min
 Lab File: BF079608.D
 Acq: 30 May 2015 17:45

Instrument :
 BNA_F
 ClientSampleId :
 PENRD8.8(5)

Tgt Ion:142 Resp: 17405
 Ion Ratio Lower Upper
 142 100
 141 83.9 69.5 104.3
 115 30.2 23.8 35.6

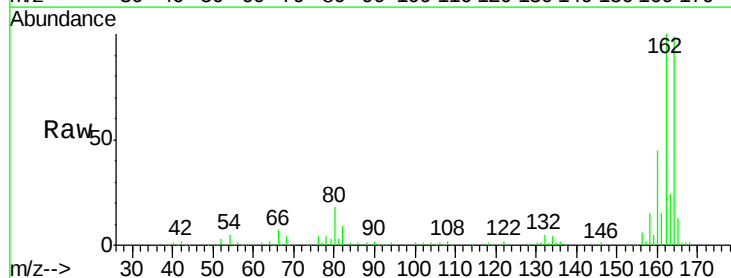


Abundance Ion 142.00 (141.70 to 142.70): E
 Ion 141.00 (140.70 to 141.70): E
 Ion 115.00 (114.70 to 115.70): E

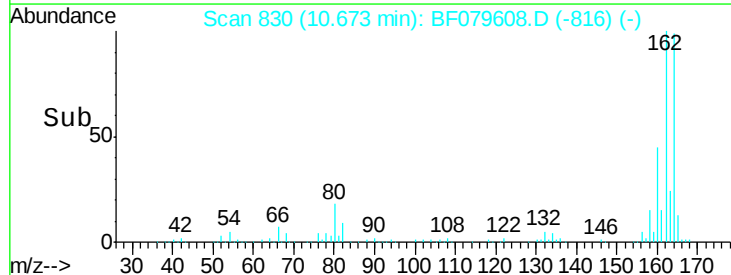
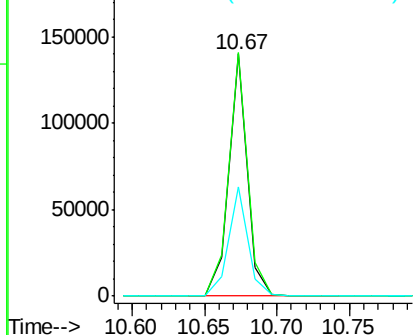


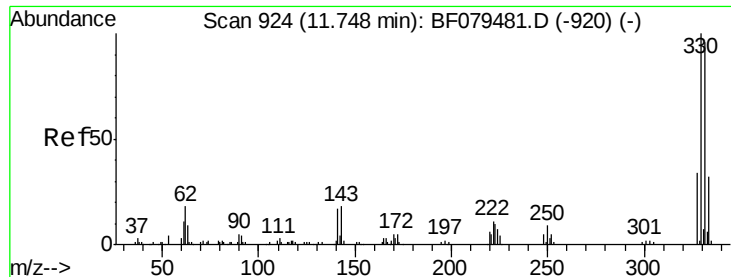
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 10.67 min Scan# 830
 Delta R.T. -0.03 min
 Lab File: BF079608.D
 Acq: 30 May 2015 17:45

Tgt Ion:164 Resp: 123712
 Ion Ratio Lower Upper
 164 100
 162 100.6 82.6 124.0
 160 45.1 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

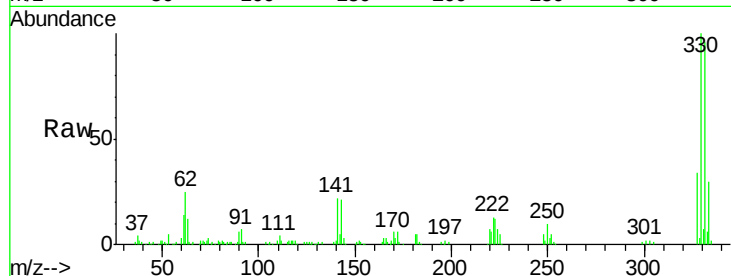




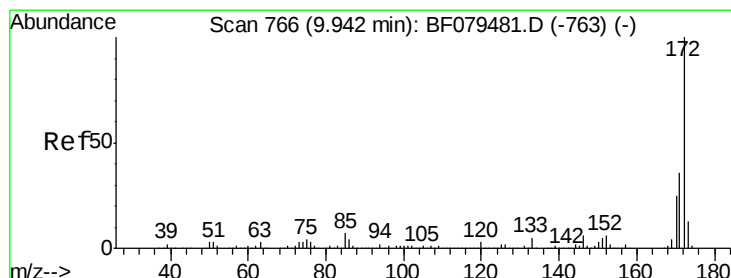
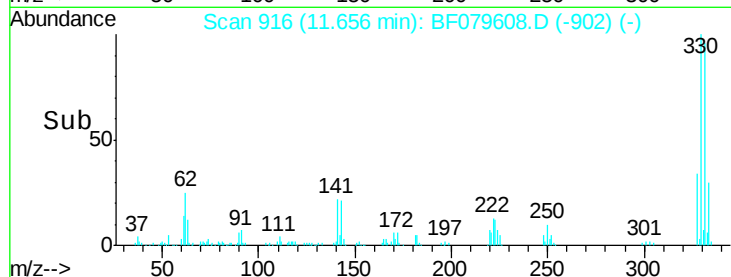
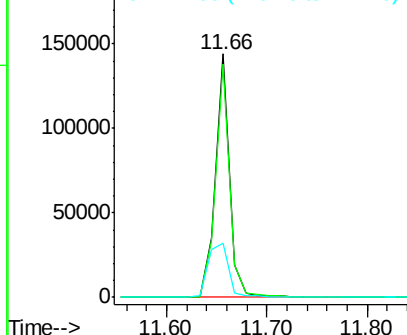
#41
 2,4,6-Tribromophenol
 Concen: 103.60 ng
 RT: 11.66 min Scan# 916
 Delta R.T. -0.03 min
 Lab File: BF079608.D
 Acq: 30 May 2015 17:45

Instrument :
 BNA_F
 ClientSampleId :
 PENRD8.8(5)

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.1	0.0	0.0#
141	32.8	0.0	0.0#

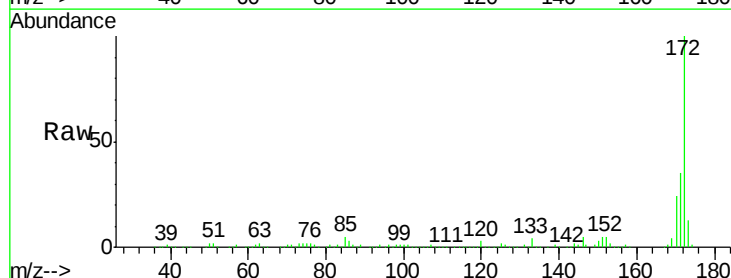


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

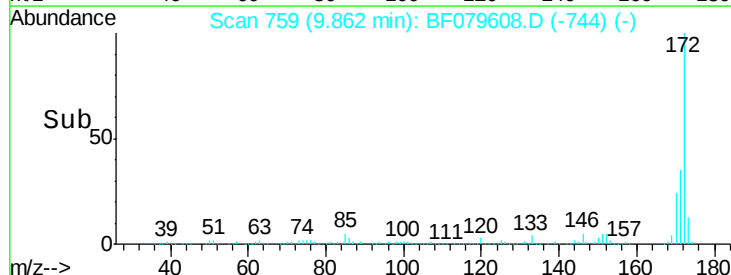
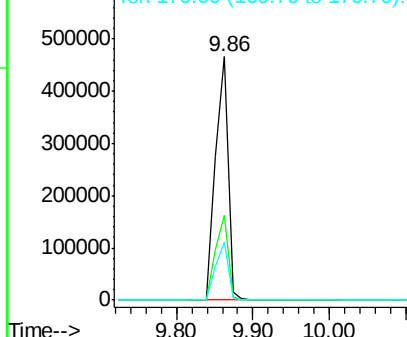


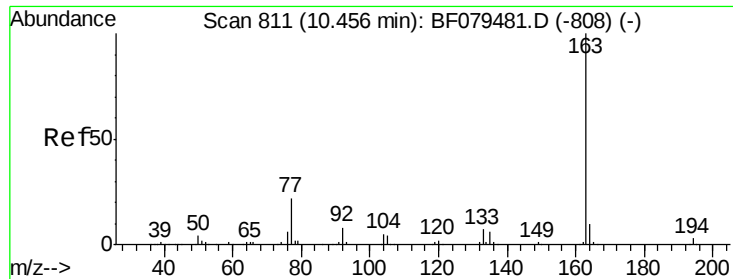
#44
 2-Fluorobiphenyl
 Concen: 61.07 ng
 RT: 9.86 min Scan# 759
 Delta R.T. -0.02 min
 Lab File: BF079608.D
 Acq: 30 May 2015 17:45

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.7	28.5	42.7
170	23.6	19.7	29.5



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





#49

Dimethylphthalate

Concen: 5.71 ng

RT: 10.38 min Scan# 804

Delta R.T. -0.03 min

Lab File: BF079608.D

Acq: 30 May 2015 17:45

Instrument :

BNA_F

ClientSampleId :

PENRD8.8(5)

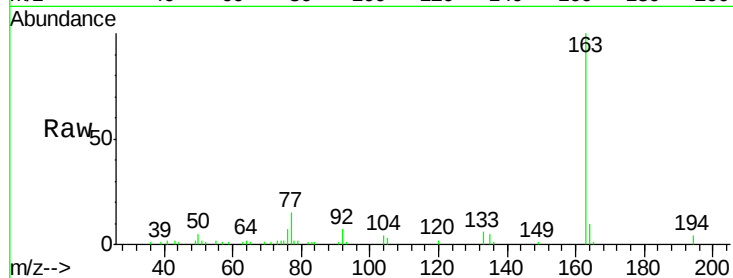
Tgt Ion:163 Resp: 52008

Ion Ratio Lower Upper

163 100

194 3.8 2.4 3.6#

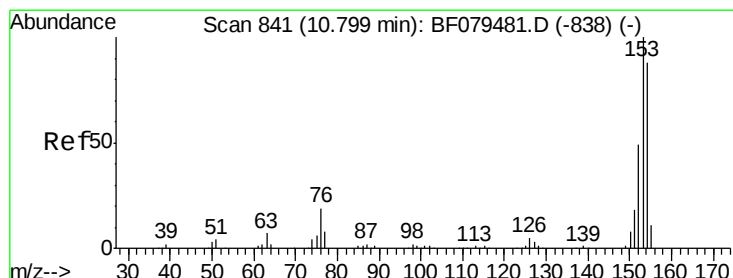
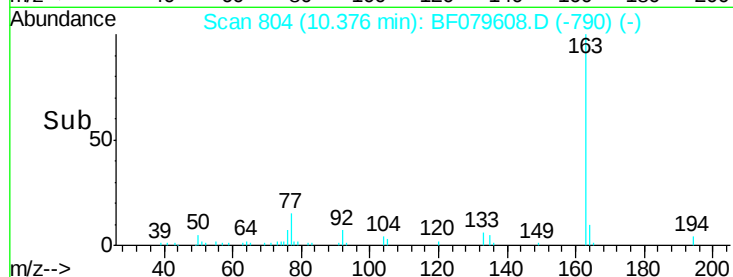
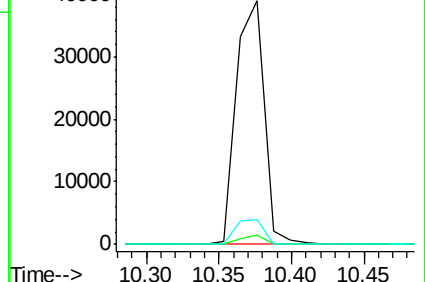
164 10.0 8.2 12.4



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#51

Acenaphthene

Concen: 2.53 ng

RT: 10.71 min Scan# 833

Delta R.T. -0.03 min

Lab File: BF079608.D

Acq: 30 May 2015 17:45

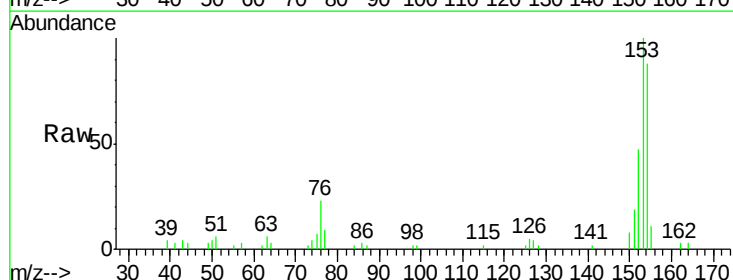
Tgt Ion:154 Resp: 18352

Ion Ratio Lower Upper

154 100

153 113.3 91.1 136.7

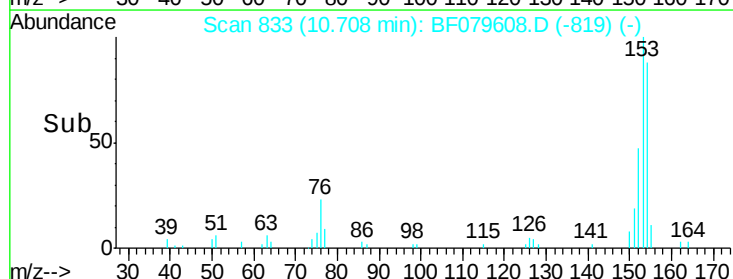
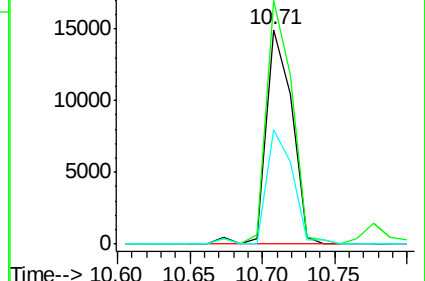
152 53.3 44.6 66.8

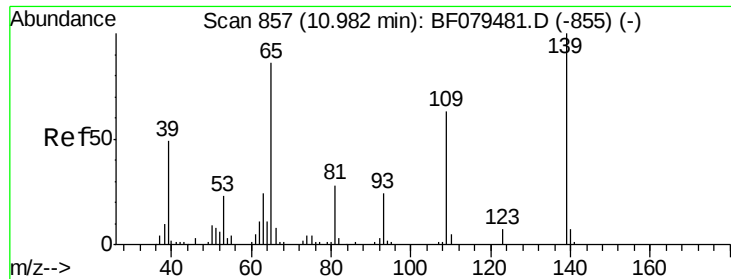


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#55

4-Nitrophenol

Concen: 4.89 ng

RT: 10.92 min Scan# 852

Delta R.T. -0.00 min

Lab File: BF079608.D

Acq: 30 May 2015 17:45

Instrument :

BNA_F

ClientSampleId :

PENRD8.8(5)

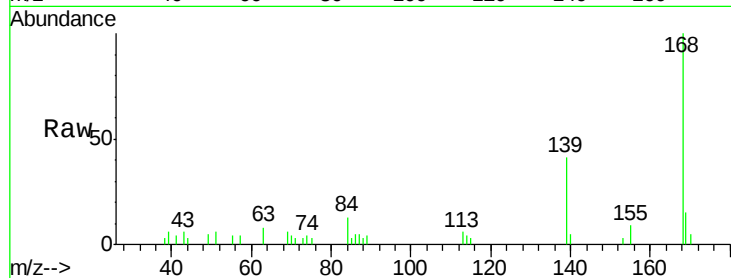
Tgt Ion:139 Resp: 6419

Ion Ratio Lower Upper

139 100

109 0.0 42.8 82.8#

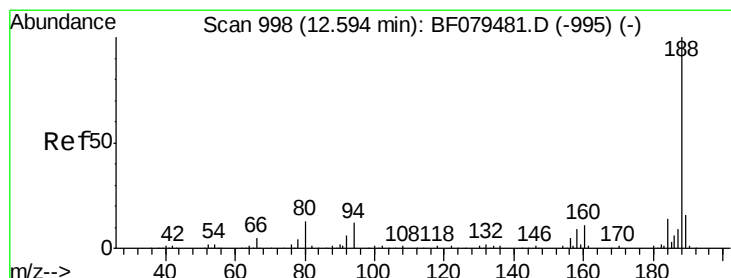
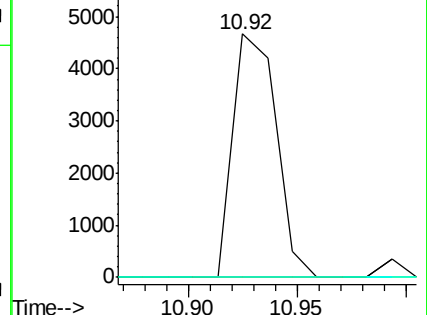
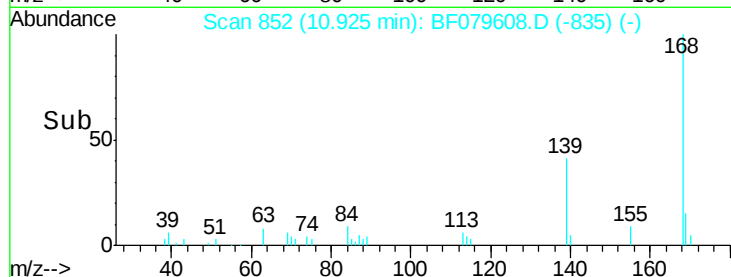
65 0.0 66.3 106.3#



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



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 12.50 min Scan# 990

Delta R.T. -0.03 min

Lab File: BF079608.D

Acq: 30 May 2015 17:45

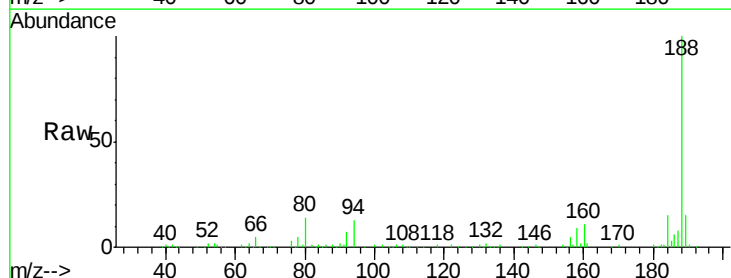
Tgt Ion:188 Resp: 226738

Ion Ratio Lower Upper

188 100

94 13.3 9.8 14.6

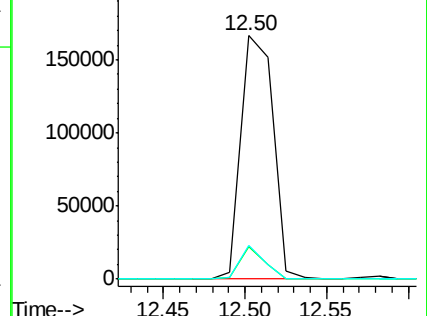
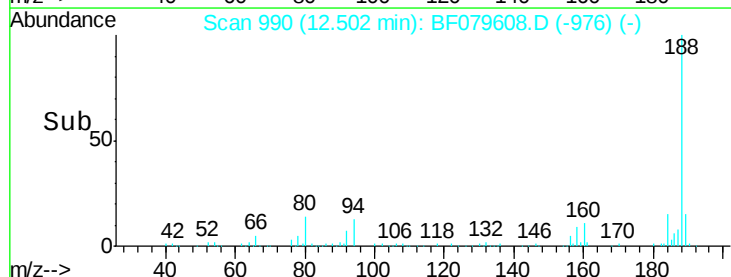
80 14.0 10.5 15.7

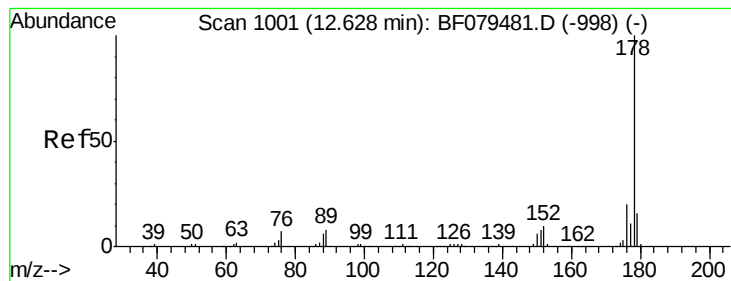


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 26.56 ng

RT: 12.54 min Scan# 993

Delta R.T. -0.03 min

Lab File: BF079608.D

Acq: 30 May 2015 17:45

Instrument :

BNA_F

ClientSampleId :

PENRD8.8(5)

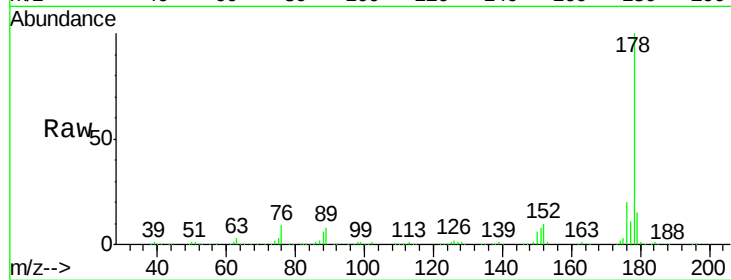
Tgt Ion:178 Resp: 330340

Ion Ratio Lower Upper

178 100

176 19.9 15.7 23.5

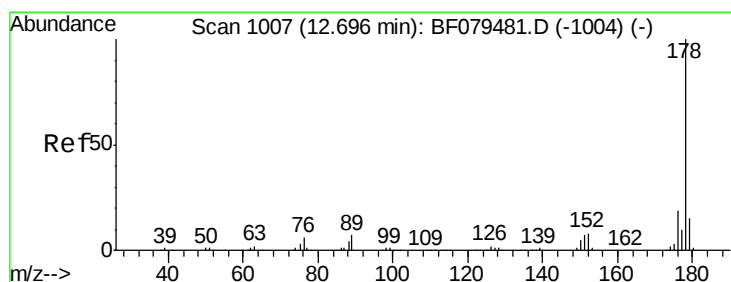
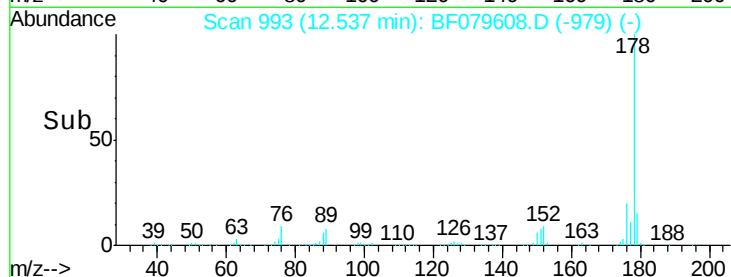
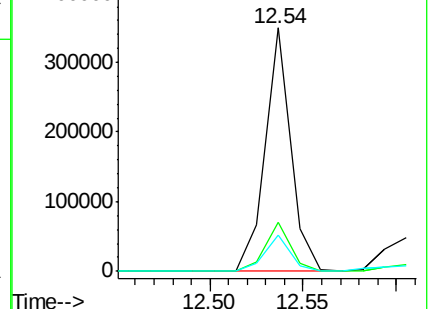
179 15.0 12.4 18.6



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: 4.71 ng

RT: 12.61 min Scan# 999

Delta R.T. -0.02 min

Lab File: BF079608.D

Acq: 30 May 2015 17:45

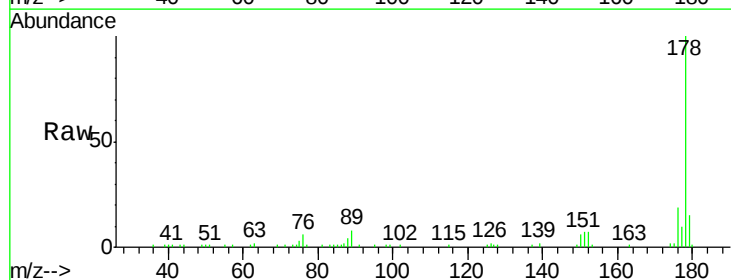
Tgt Ion:178 Resp: 59447

Ion Ratio Lower Upper

178 100

176 18.9 15.3 22.9

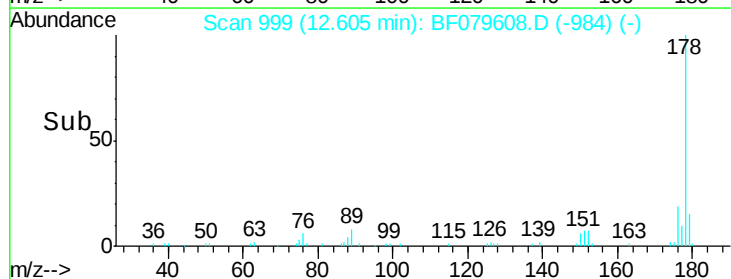
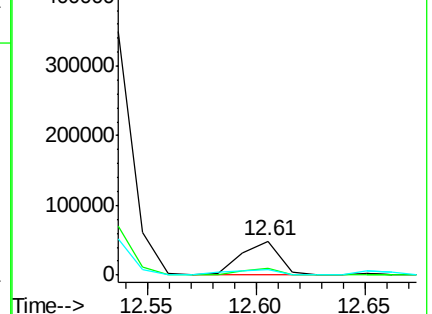
179 15.5 12.2 18.4

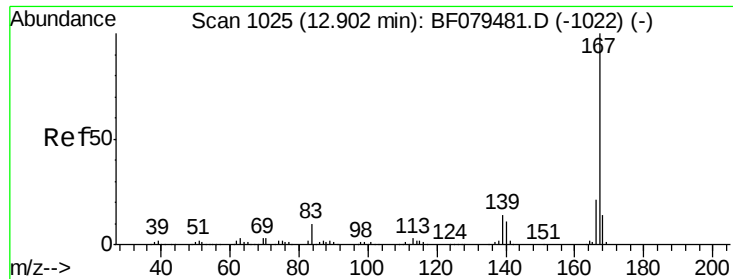


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 4.10 ng

RT: 12.82 min Scan# 1018

Delta R.T. -0.02 min

Lab File: BF079608.D

Acq: 30 May 2015 17:45

Instrument :

BNA_F

ClientSampleId :

PENRD8.8(5)

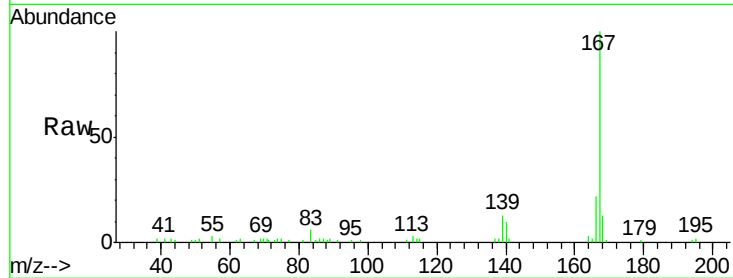
Tgt Ion:167 Resp: 49813

Ion Ratio Lower Upper

167 100

166 22.0 17.0 25.4

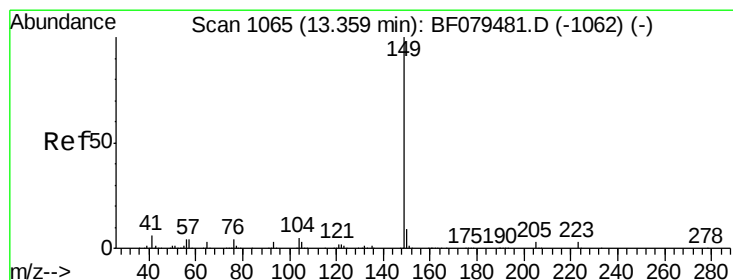
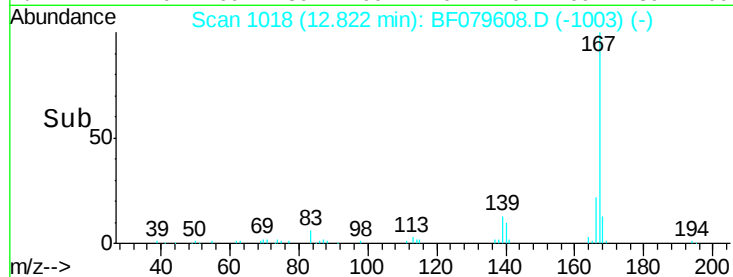
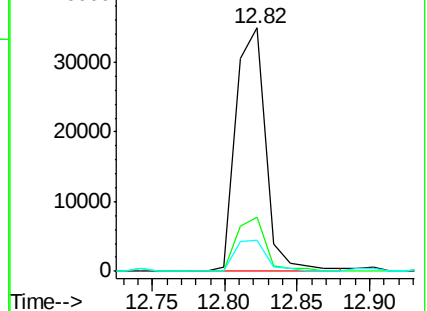
139 12.7 11.2 16.8



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



#73

Di-n-butylphthalate

Concen: Below Cal

RT: 13.27 min Scan# 1057

Delta R.T. -0.03 min

Lab File: BF079608.D

Acq: 30 May 2015 17:45

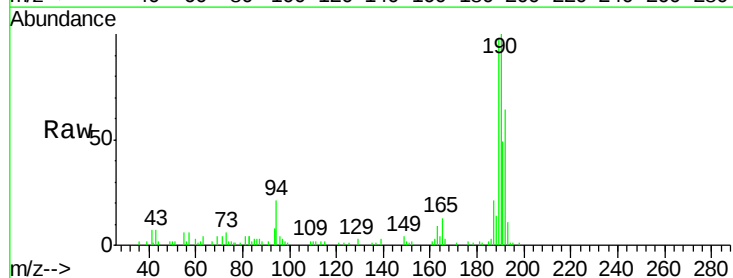
Tgt Ion:149 Resp: 1208

Ion Ratio Lower Upper

149 100

150 57.0 7.5 11.3#

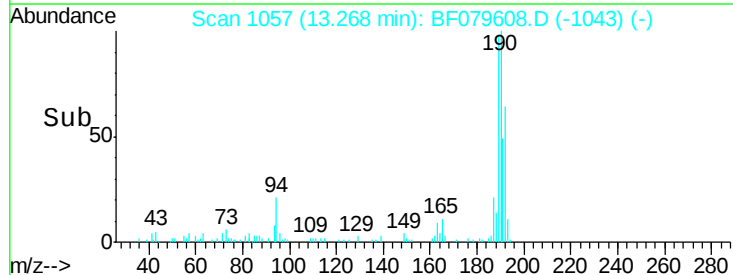
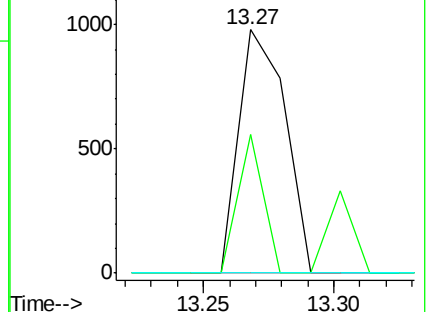
104 0.0 3.6 5.4#

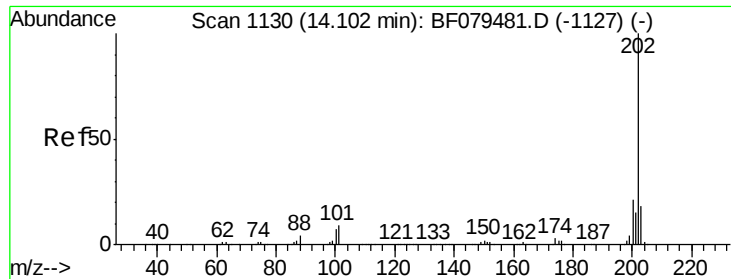


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E





#74

Fluoranthene

Concen: 38.29 ng

RT: 14.01 min Scan# 1122

Delta R.T. -0.02 min

Lab File: BF079608.D

Acq: 30 May 2015 17:45

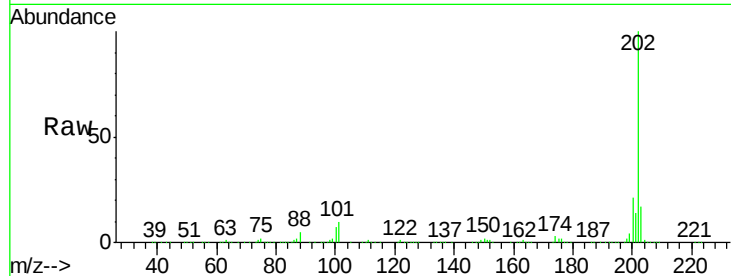
Instrument :

BNA_F

ClientSampleId :

PENRD8.8(5)

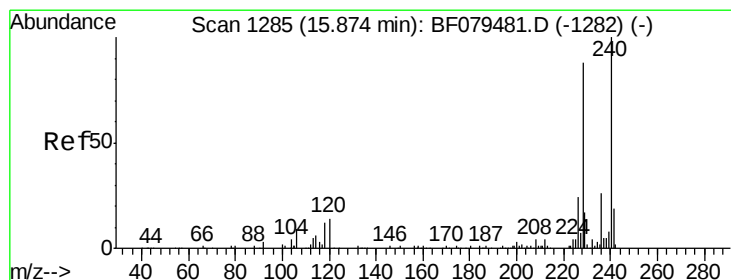
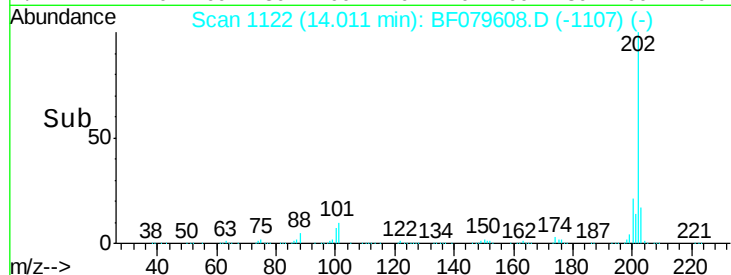
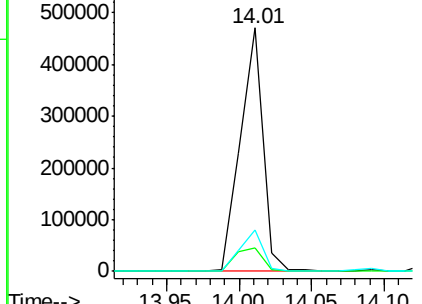
Tgt Ion:	202	Resp:	510734
Ion	Ratio	Lower	Upper
202	100		
101	9.6	0.0	29.3
203	17.0	0.0	37.6



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

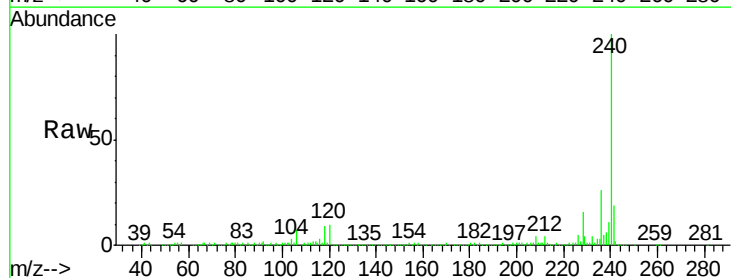
RT: 15.78 min Scan# 1277

Delta R.T. -0.06 min

Lab File: BF079608.D

Acq: 30 May 2015 17:45

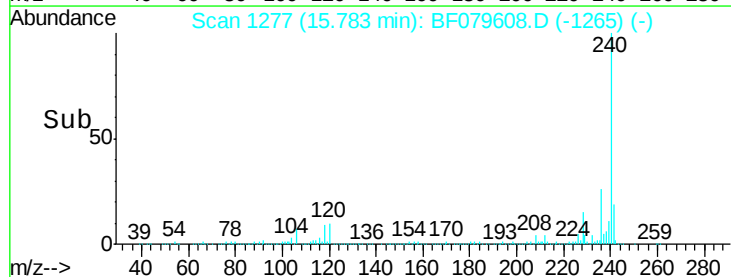
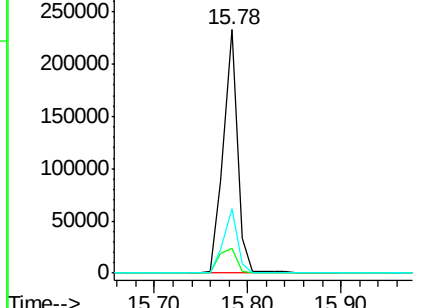
Tgt Ion:	240	Resp:	248588
Ion	Ratio	Lower	Upper
240	100		
120	9.9	10.8	16.2#
236	26.4	21.0	31.6

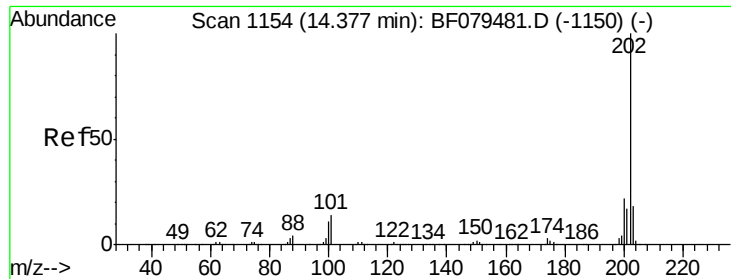


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

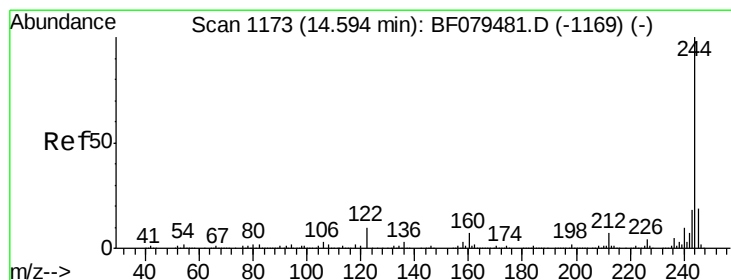
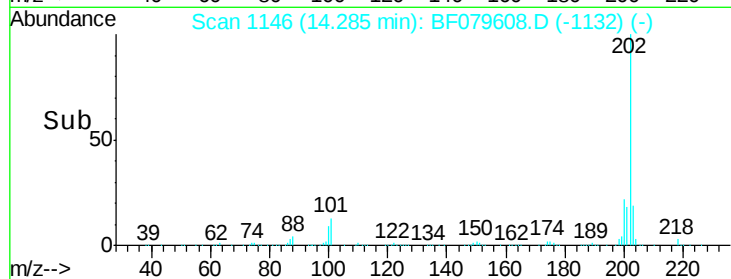
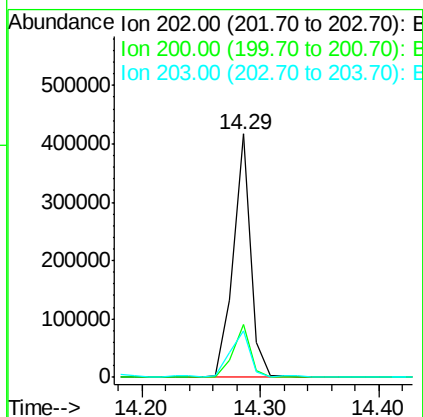
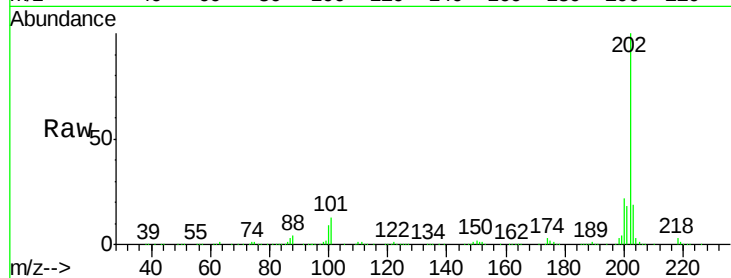




#77
 Pyrene
 Concen: 27.39 ng
 RT: 14.29 min Scan# 1146
 Delta R.T. -0.03 min
 Lab File: BF079608.D
 Acq: 30 May 2015 17:45

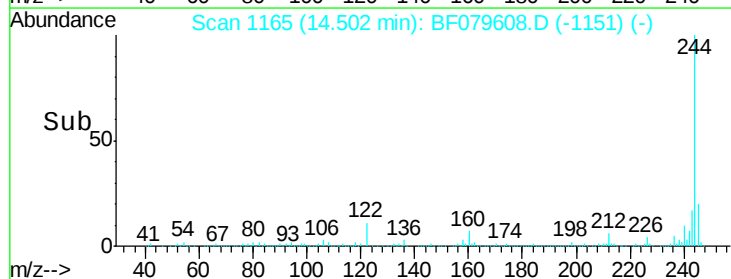
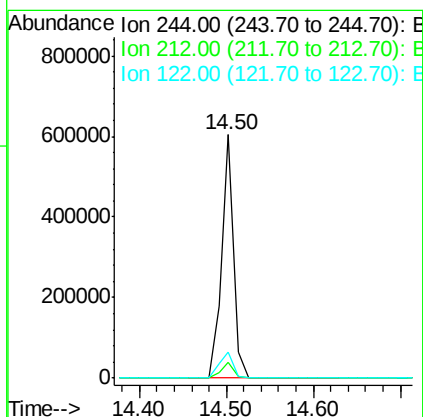
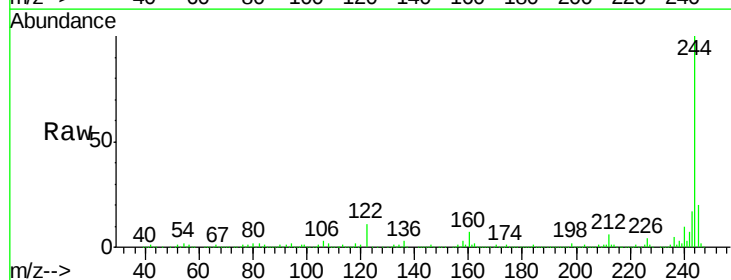
Instrument :
 BNA_F
 ClientSampleId :
 PENRD8.8(5)

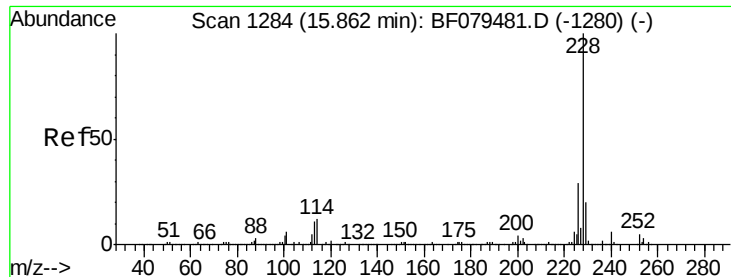
Tgt Ion: 202 Resp: 421788
 Ion Ratio Lower Upper
 202 100
 200 21.8 17.5 26.3
 203 19.2 14.4 21.6



#78
 Terphenyl-d14
 Concen: 55.51 ng
 RT: 14.50 min Scan# 1165
 Delta R.T. -0.03 min
 Lab File: BF079608.D
 Acq: 30 May 2015 17:45

Tgt Ion: 244 Resp: 587985
 Ion Ratio Lower Upper
 244 100
 212 6.3 5.2 7.8
 122 10.7 8.0 12.0





#80

Benzo(a)anthracene

Concen: 18.64 ng

RT: 15.77 min Scan# 1276

Delta R.T. -0.06 min

Lab File: BF079608.D

Acq: 30 May 2015 17:45

Instrument :

BNA_F

ClientSampleId :

PENRD8.8(5)

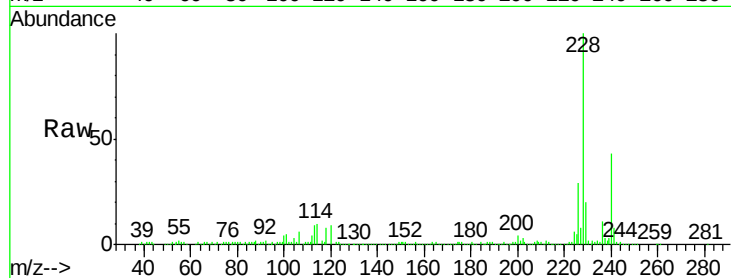
Tgt Ion:228 Resp: 266614

Ion Ratio Lower Upper

228 100

226 29.3 22.8 34.2

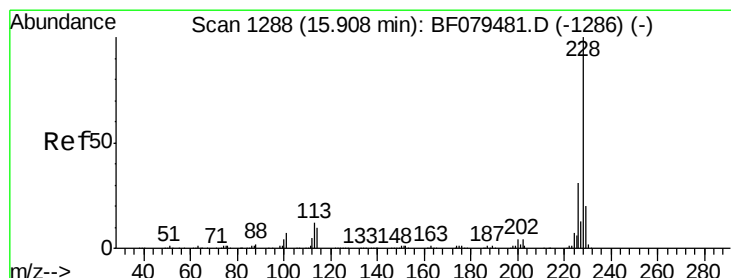
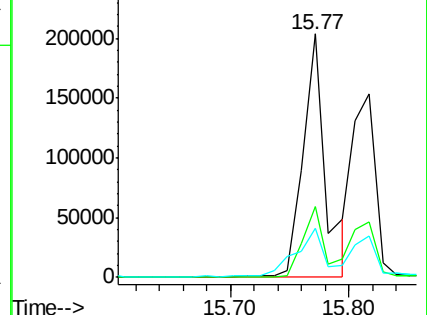
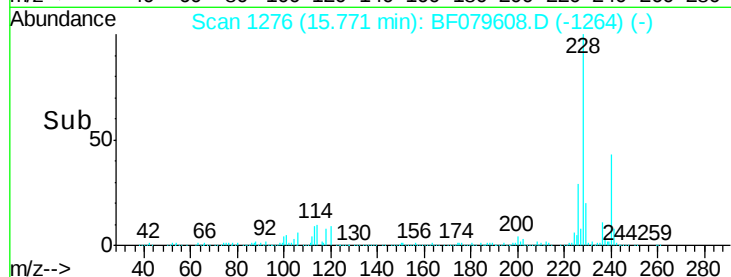
229 20.3 15.9 23.9



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



#82

Chrysene

Concen: 15.18 ng

RT: 15.82 min Scan# 1280

Delta R.T. -0.06 min

Lab File: BF079608.D

Acq: 30 May 2015 17:45

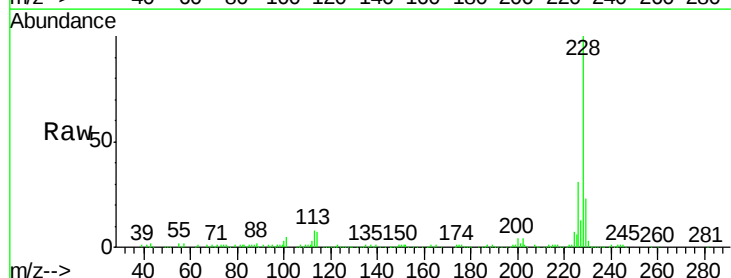
Tgt Ion:228 Resp: 206369

Ion Ratio Lower Upper

228 100

226 30.6 25.0 37.4

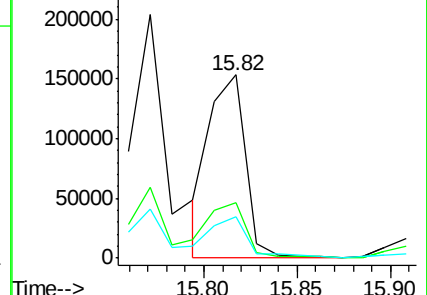
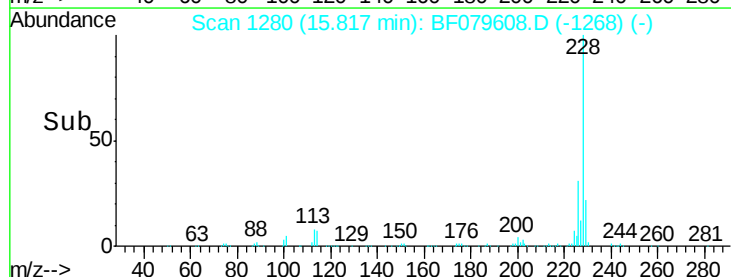
229 22.9 15.9 23.9

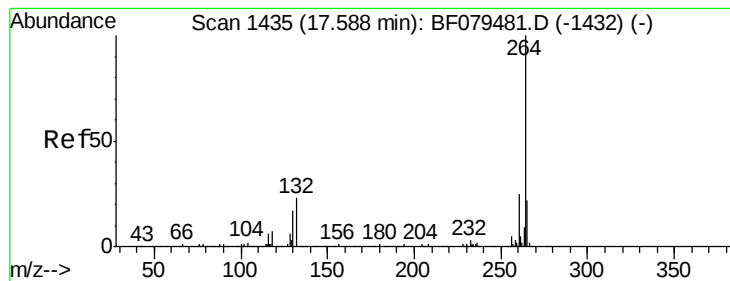


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#86

Perylene-d12

Concen: 20.00 ng

RT: 17.46 min Scan# 1424

Delta R.T. -0.21 min

Lab File: BF079608.D

Acq: 30 May 2015 17:45

Instrument :

BNA_F

ClientSampleId :

PENRD8.8(5)

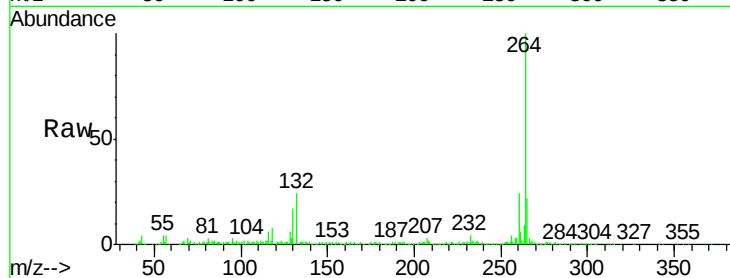
Tgt Ion:264 Resp: 251616

Ion Ratio Lower Upper

264 100

260 23.8 19.8 29.8

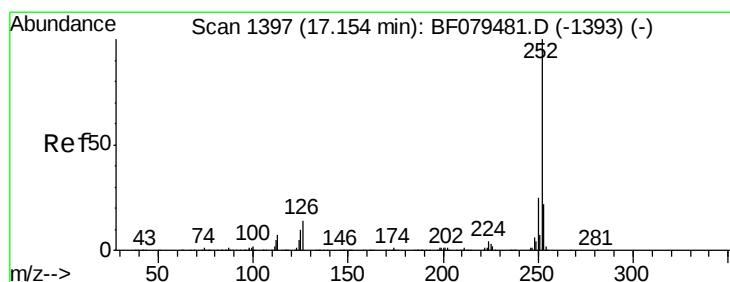
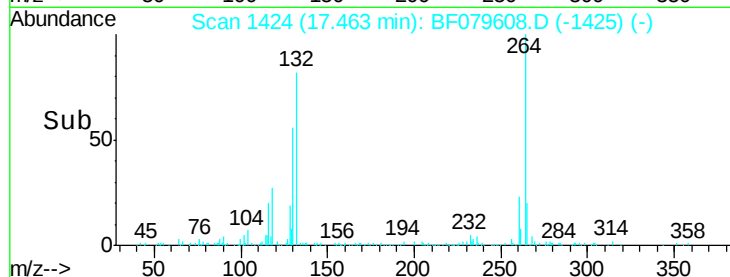
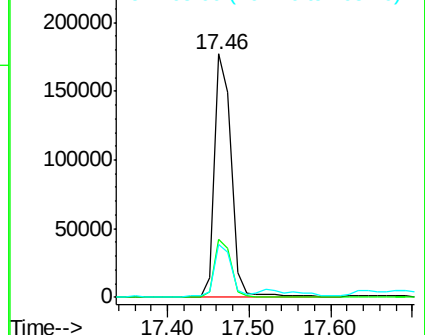
265 21.7 17.8 26.6



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: 29.91 ng

RT: 17.04 min Scan# 1387

Delta R.T. -0.16 min

Lab File: BF079608.D

Acq: 30 May 2015 17:45

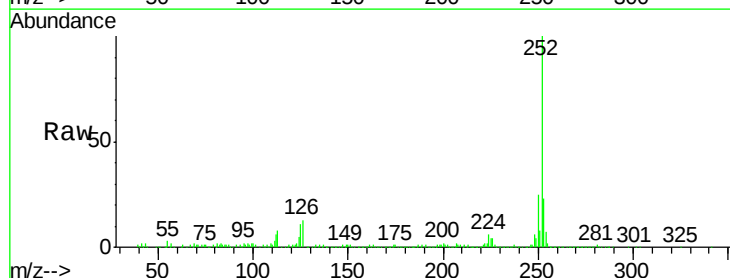
Tgt Ion:252 Resp: 429167

Ion Ratio Lower Upper

252 100

253 22.9 17.6 26.4

125 10.8 7.8 11.6



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

