

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF092615\
 Data File : BF081832.D
 Acq On : 26 Sep 2015 17:25
 Operator : UM/IZ
 Sample : G3785-02
 Misc :
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 MGP221BR-30-32

Quant Time: Sep 28 07:02:44 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Sep 25 06:02:49 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.94	152	109924	20.00	ng	-0.01
21) Naphthalene-d8	8.23	136	445043	20.00	ng	-0.01
38) Acenaphthene-d10	9.99	164	273638	20.00	ng	-0.01
63) Phenanthrene-d10	11.48	188	307300	20.00	ng	0.00
75) Chrysene-d12	14.13	240	270650	20.00	ng	0.01
86) Perylene-d12	15.60	264	295325	20.00	ng	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.53	112	654999	100.80	ng	-0.01
7) Phenol-d6	6.56	99	810014	98.56	ng	-0.01
23) Nitrobenzene-d5	7.51	82	550383	81.60	ng	-0.01
41) 2,4,6-Tribromophenol	10.78	330	189588	79.80	ng	-0.01
44) 2-Fluorobiphenyl	9.30	172	713506	42.80	ng	-0.01
78) Terphenyl-d14	13.06	244	539036	45.50	ng	0.00

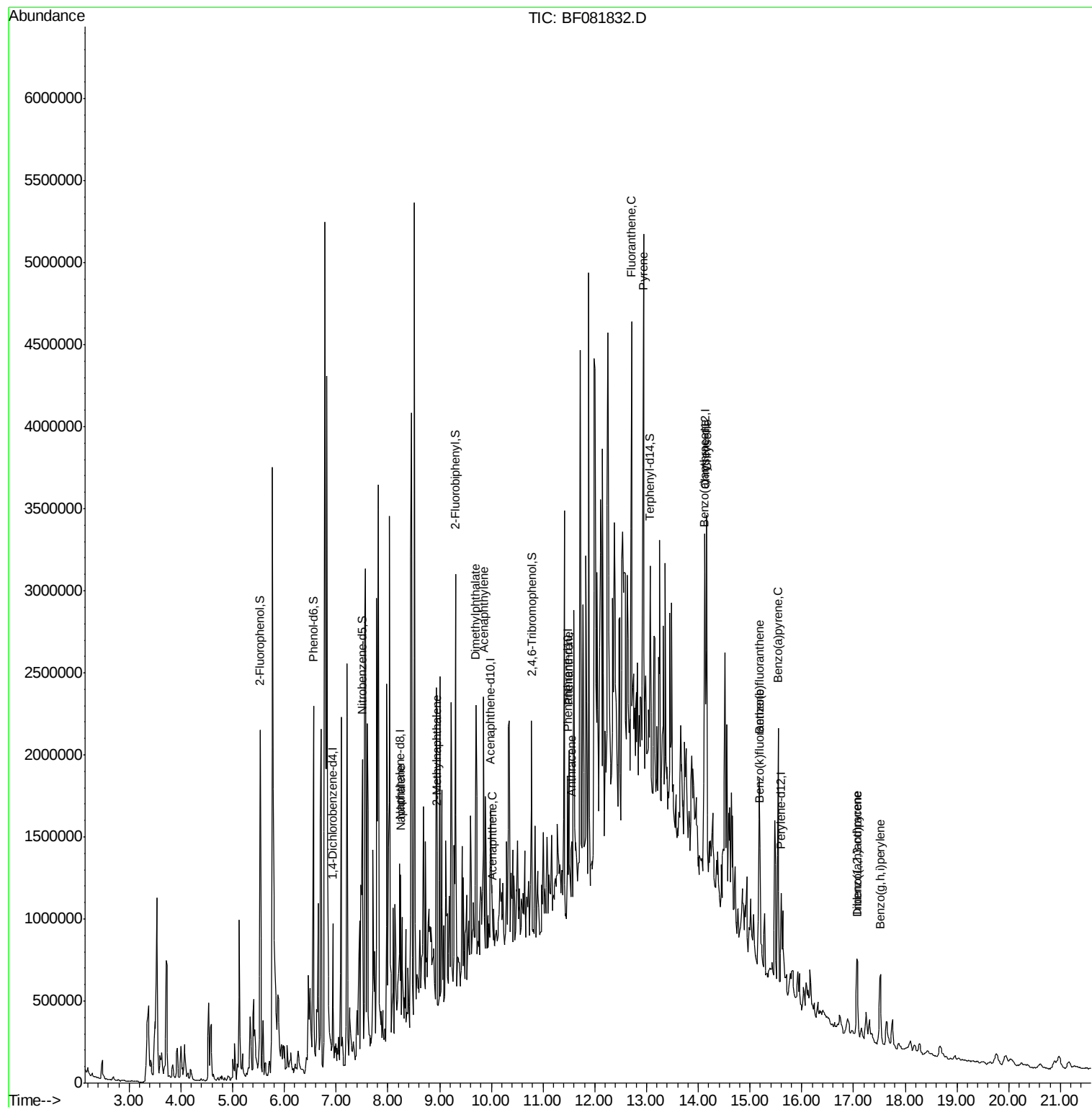
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.25	128	338957	16.51	ng	# 81
37) 2-Methylnaphthalene	8.95	142	127981	8.75	ng	# 69
48) Acenaphthylene	9.85	152	685166	23.52	ng	96
49) Dimethylphthalate	9.70	163	282097	13.55	ng	# 85
51) Acenaphthene	10.02	154	46973	2.80	ng	# 79
70) Phenanthrene	11.50	178	398413m	22.68	ng	
71) Anthracene	11.56	178	272308m	16.08	ng	
74) Fluoranthene	12.71	202	1247331	70.46	ng	89
77) Pyrene	12.94	202	1763494m	86.42	ng	
80) Benzo(a)anthracene	14.12	228	1286021	78.36	ng	# 86
82) Chrysene	14.16	228	1035796	65.81	ng	# 87
85) Indeno(1,2,3-cd)pyrene	17.06	276	337258	23.41	ng	# 82
87) Benzo(b)fluoranthene	15.18	252	847834m	48.41	ng	
88) Benzo(k)fluoranthene	15.19	252	240318m	14.25	ng	
89) Benzo(a)pyrene	15.54	252	869851	55.01	ng	# 85
90) Dibenzo(a,h)anthracene	17.08	278	103108	6.26	ng	# 78
91) Benzo(g,h,i)perylene	17.52	276	395353	23.27	ng	# 74

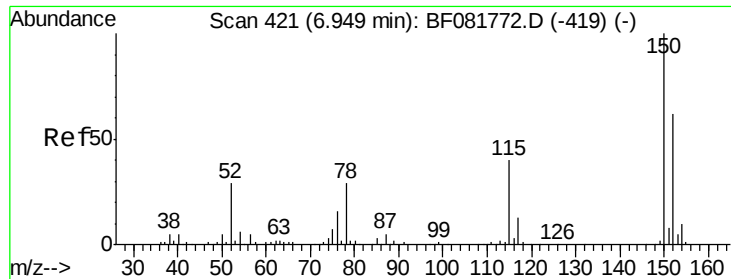
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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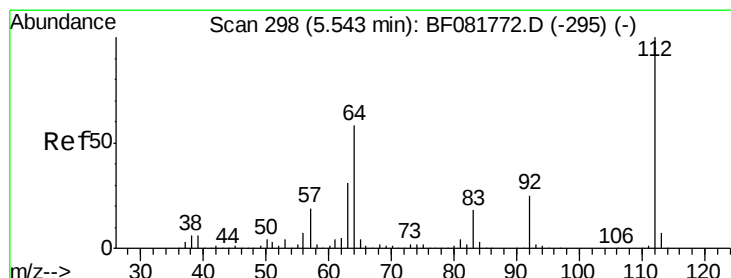
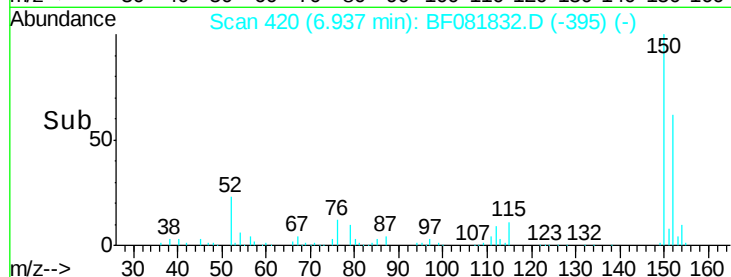
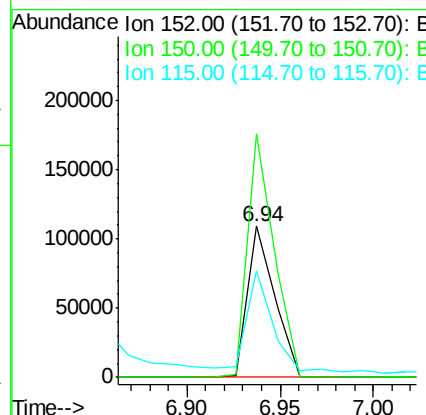
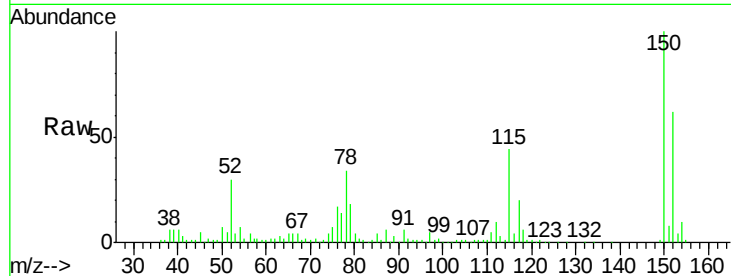




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.94 min Scan# 420
 Delta R.T. -0.01 min
 Lab File: BF081832.D
 Acq: 26 Sep 2015 17:25

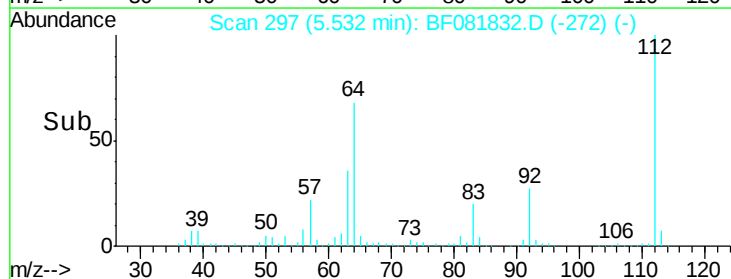
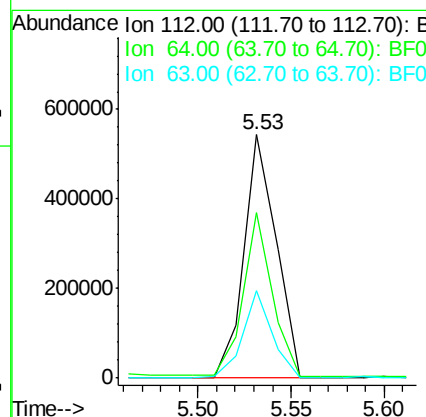
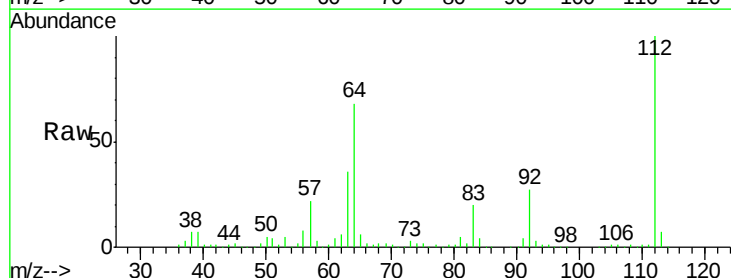
Instrument :
 BNA_F
 ClientSampleId :
 MGP221BR-30-32

Tgt Ion:152 Resp: 109924
 Ion Ratio Lower Upper
 152 100
 150 161.3 124.7 187.1
 115 70.8 39.0 58.4#



#5
 2-Fluorophenol
 Concen: 100.80 ng
 RT: 5.53 min Scan# 297
 Delta R.T. -0.01 min
 Lab File: BF081832.D
 Acq: 26 Sep 2015 17:25

Tgt Ion:112 Resp: 654999
 Ion Ratio Lower Upper
 112 100
 64 68.1 39.7 59.5#
 63 36.0 17.4 26.0#





#7

Phenol-d6

Concen: 98.56 ng

RT: 6.56 min Scan# 387

Delta R.T. -0.01 min

Lab File: BF081832.D

Acq: 26 Sep 2015 17:25

Instrument :

BNA_F

ClientSampleId :

MGP221BR-30-32

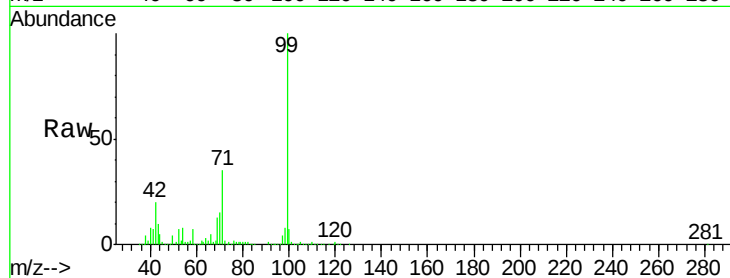
Tgt Ion: 99 Resp: 810014

Ion Ratio Lower Upper

99 100

42 19.7 13.7 20.5

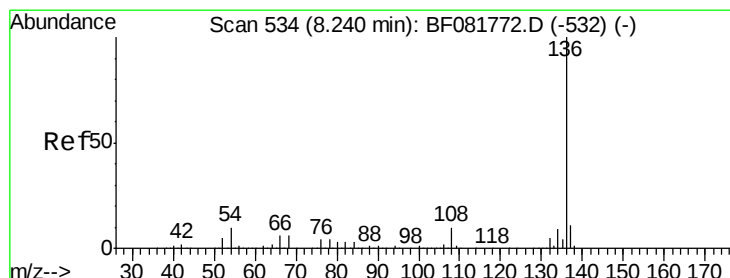
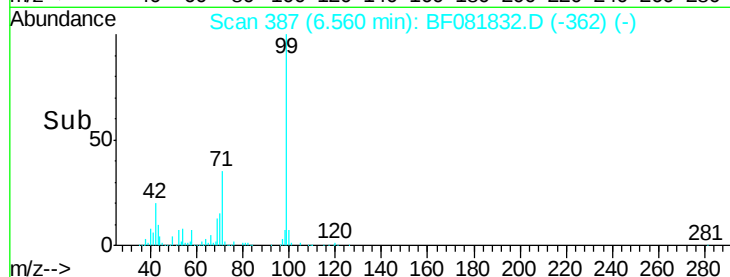
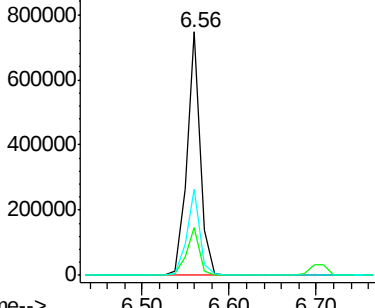
71 35.4 14.2 21.2#



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: 8.23 min Scan# 533

Delta R.T. -0.01 min

Lab File: BF081832.D

Acq: 26 Sep 2015 17:25

Tgt Ion: 136 Resp: 445043

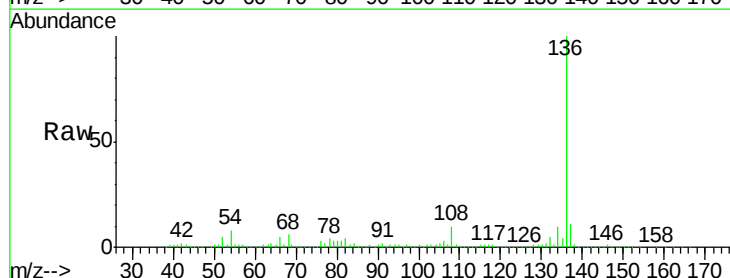
Ion Ratio Lower Upper

136 100

137 11.4 9.0 13.6

54 8.4 8.2 12.2

68 5.5 5.8 8.6#

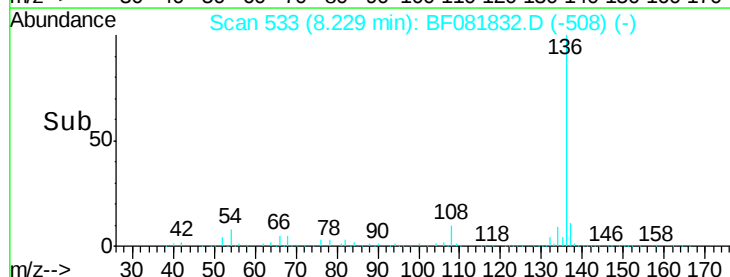
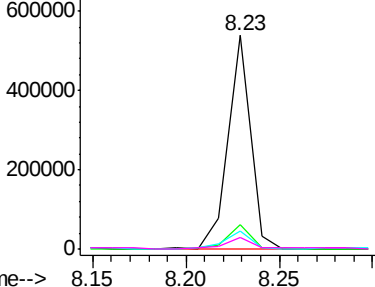


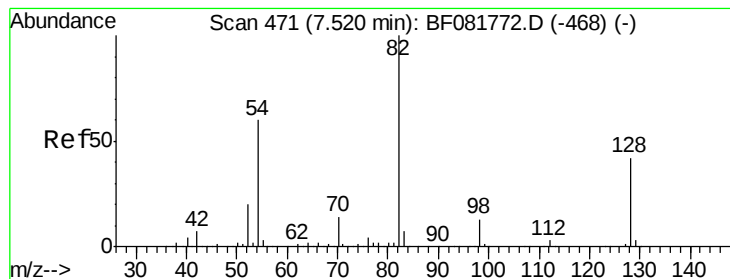
Abundance Ion 136.00 (135.70 to 136.70): E

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: 81.60 ng

RT: 7.51 min Scan# 470

Delta R.T. -0.01 min

Lab File: BF081832.D

Acq: 26 Sep 2015 17:25

Instrument :

BNA_F

ClientSampleId :

MGP221BR-30-32

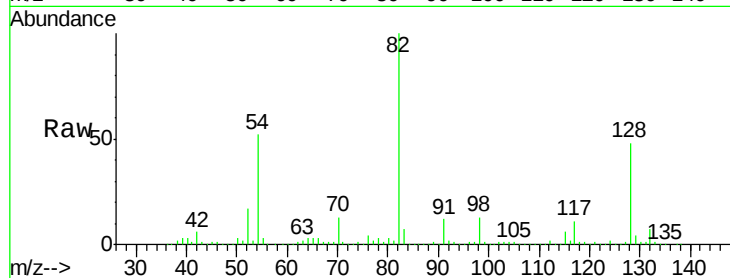
Tgt Ion: 82 Resp: 550383

Ion Ratio Lower Upper

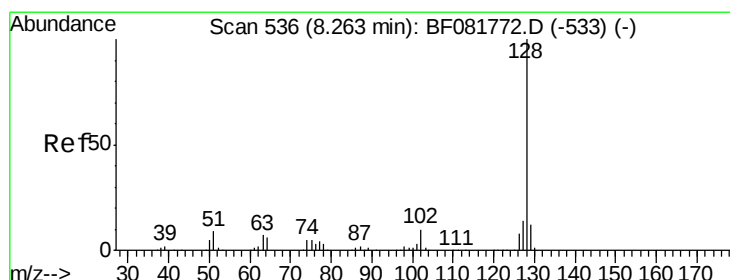
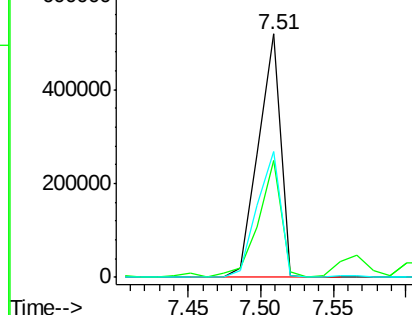
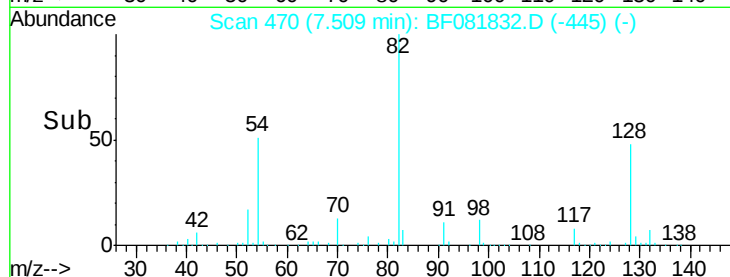
82 100

128 47.8 51.0 76.6#

54 51.5 47.5 71.3



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: 16.51 ng

RT: 8.25 min Scan# 535

Delta R.T. -0.01 min

Lab File: BF081832.D

Acq: 26 Sep 2015 17:25

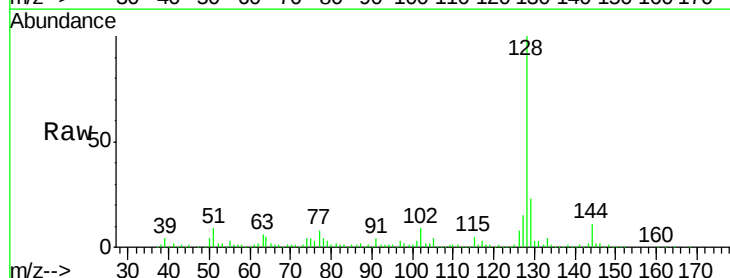
Tgt Ion: 128 Resp: 338957

Ion Ratio Lower Upper

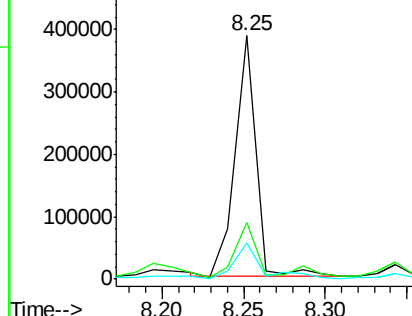
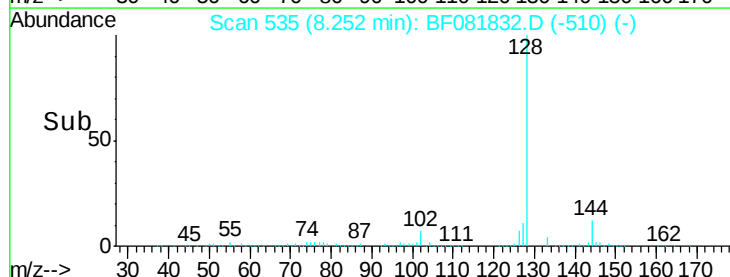
128 100

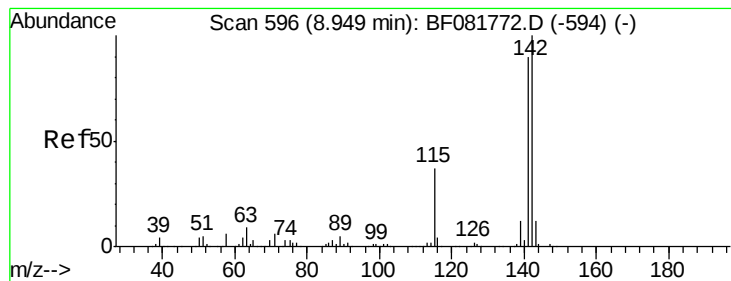
129 23.4 8.4 12.6#

127 15.1 9.9 14.9#



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

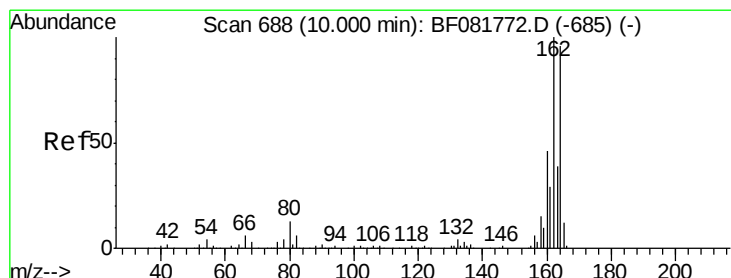
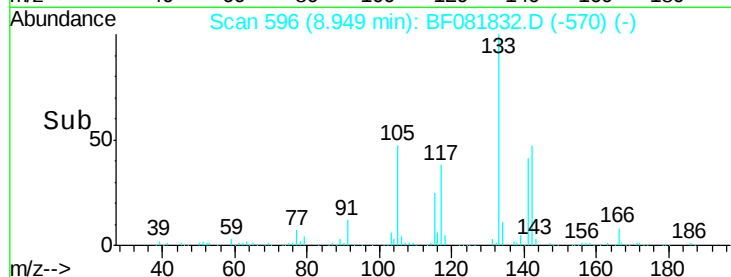
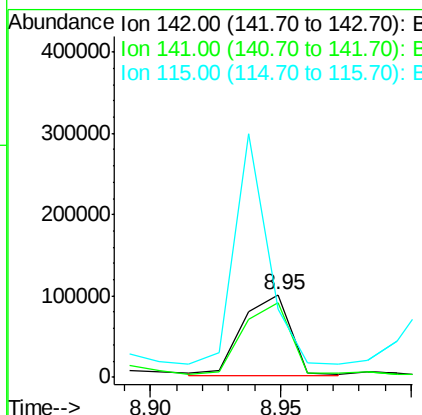
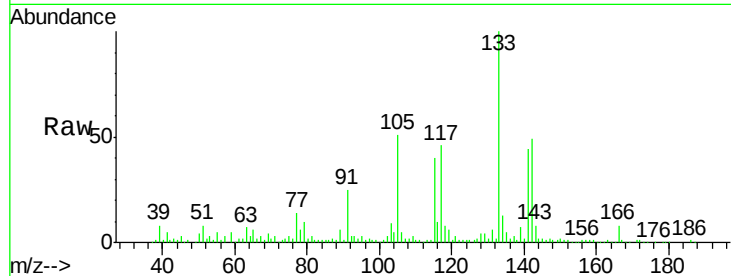




#37
 2-Methylnaphthalene
 Concen: 8.75 ng
 RT: 8.95 min Scan# 596
 Delta R.T. 0.00 min
 Lab File: BF081832.D
 Acq: 26 Sep 2015 17:25

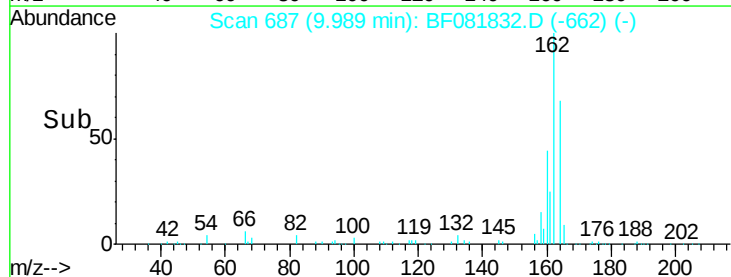
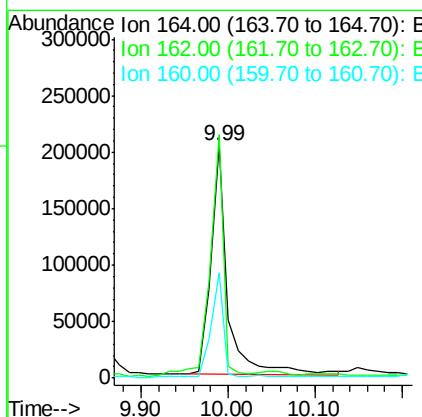
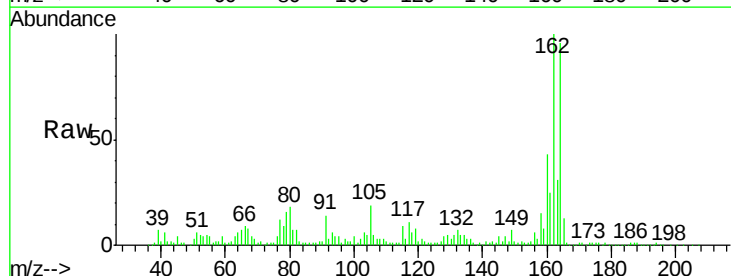
Instrument :
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 MGP221BR-30-32

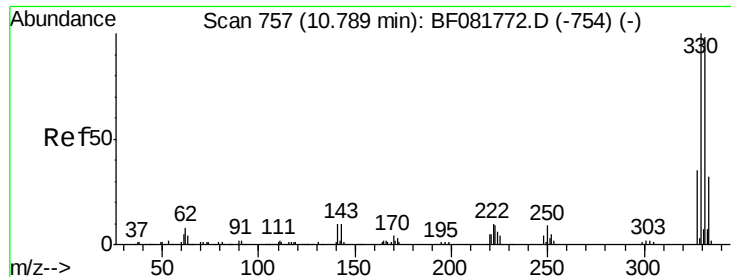
Tgt Ion:142 Resp: 127981
 Ion Ratio Lower Upper
 142 100
 141 90.2 67.5 101.3
 115 82.0 18.2 27.2#



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.99 min Scan# 687
 Delta R.T. -0.01 min
 Lab File: BF081832.D
 Acq: 26 Sep 2015 17:25

Tgt Ion:164 Resp: 273638
 Ion Ratio Lower Upper
 164 100
 162 104.6 75.2 112.8
 160 45.4 31.5 47.3

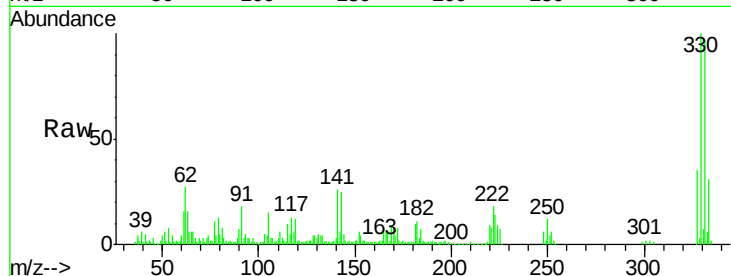




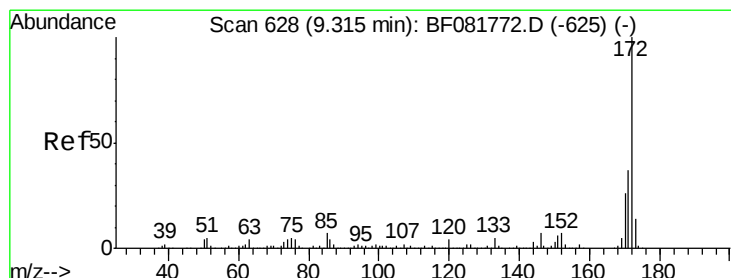
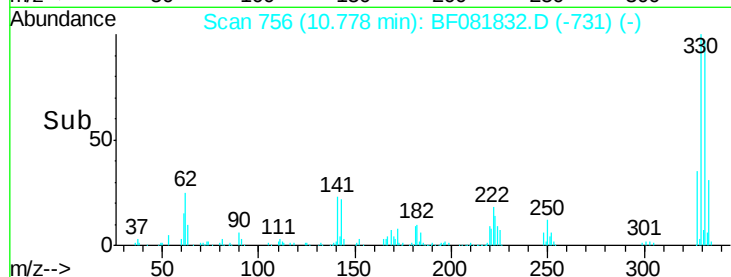
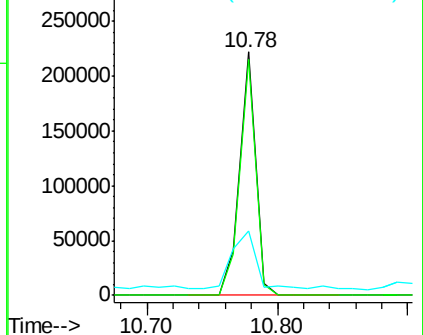
#41
 2,4,6-Tribromophenol
 Concen: 79.80 ng
 RT: 10.78 min Scan# 756
 Delta R.T. -0.01 min
 Lab File: BF081832.D
 Acq: 26 Sep 2015 17:25

Instrument :
 BNA_F
 ClientSampleId :
 MGP221BR-30-32

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.9	76.6	114.8
141	35.7	29.7	44.5

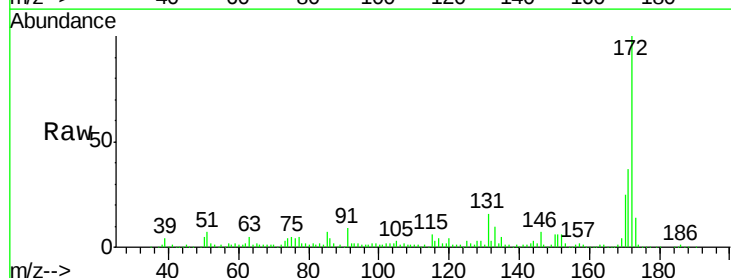


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

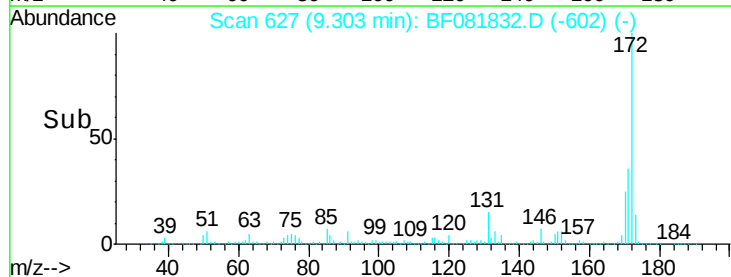
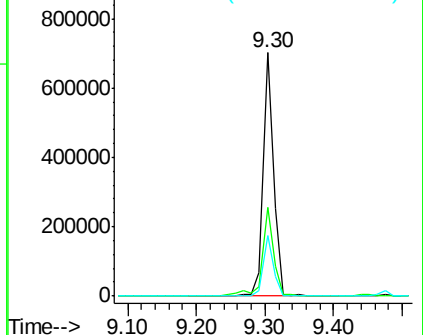


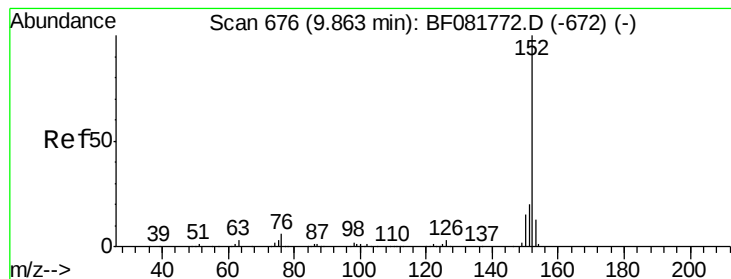
#44
 2-Fluorobiphenyl
 Concen: 42.80 ng
 RT: 9.30 min Scan# 627
 Delta R.T. -0.01 min
 Lab File: BF081832.D
 Acq: 26 Sep 2015 17:25

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.6	26.1	39.1
170	24.8	17.4	26.2



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





#48

Acenaphthylene

Concen: 23.52 ng

RT: 9.85 min Scan# 675

Delta R.T. -0.01 min

Lab File: BF081832.D

Acq: 26 Sep 2015 17:25

Instrument :

BNA_F

ClientSampleId :

MGP221BR-30-32

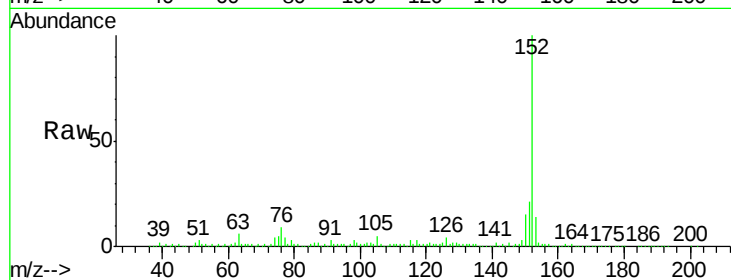
Tgt Ion:152 Resp: 685166

Ion Ratio Lower Upper

152 100

151 20.5 14.6 22.0

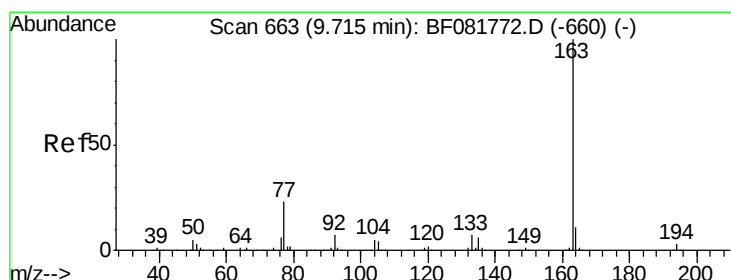
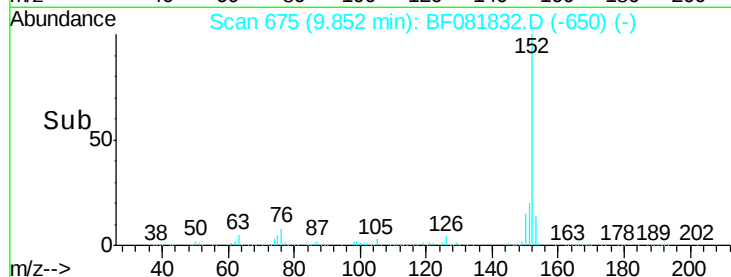
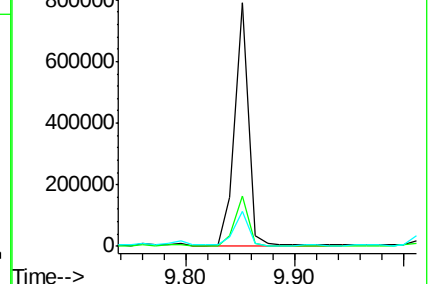
153 14.3 10.3 15.5



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 13.55 ng

RT: 9.70 min Scan# 662

Delta R.T. -0.01 min

Lab File: BF081832.D

Acq: 26 Sep 2015 17:25

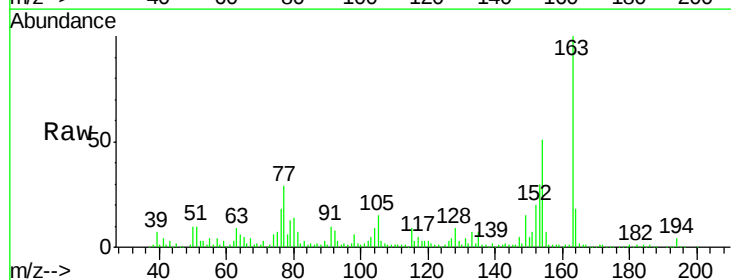
Tgt Ion:163 Resp: 282097

Ion Ratio Lower Upper

163 100

194 3.7 4.4 6.6#

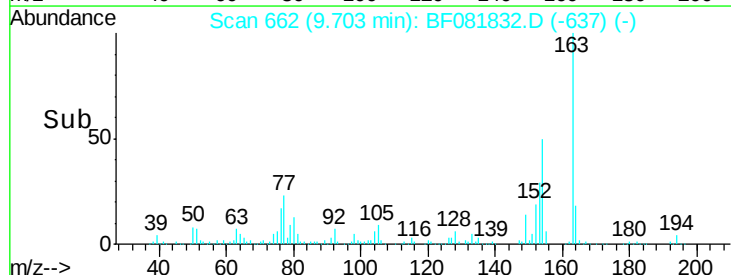
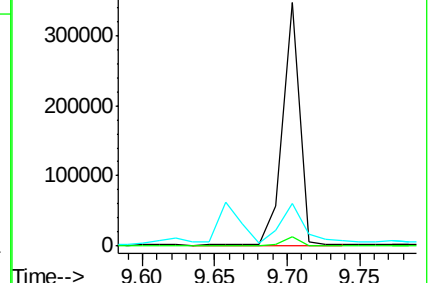
164 17.8 8.3 12.5#

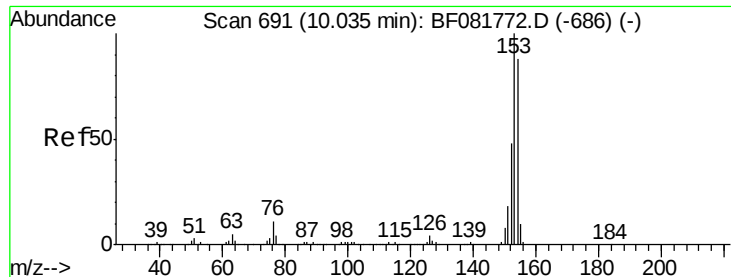


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 2.80 ng

RT: 10.02 min Scan# 690

Delta R.T. -0.01 min

Lab File: BF081832.D

Acq: 26 Sep 2015 17:25

Instrument :

BNA_F

ClientSampleId :

MGP221BR-30-32

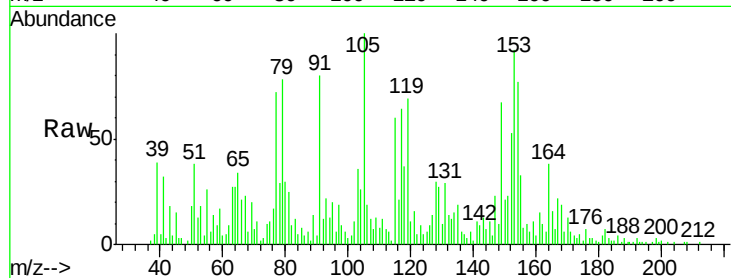
Tgt Ion:154 Resp: 46973

Ion Ratio Lower Upper

154 100

153 119.3 82.1 123.1

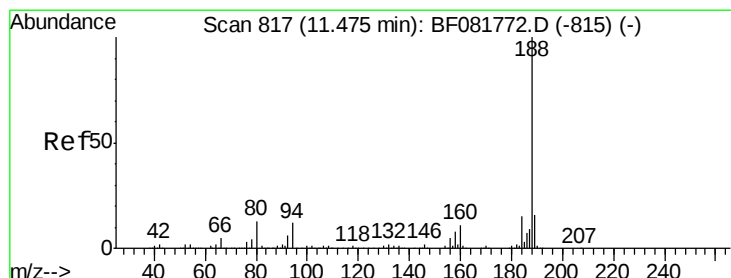
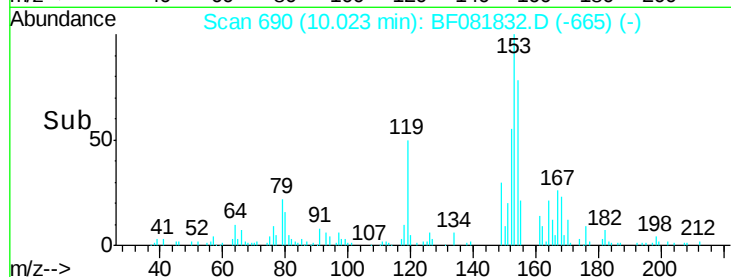
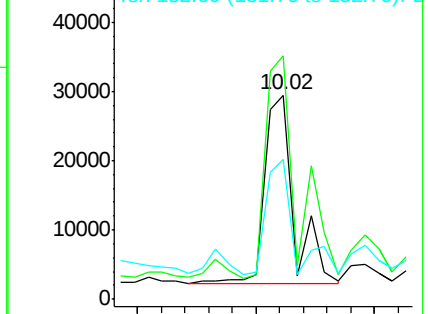
152 68.5 37.9 56.9#



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



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.48 min Scan# 817

Delta R.T. 0.00 min

Lab File: BF081832.D

Acq: 26 Sep 2015 17:25

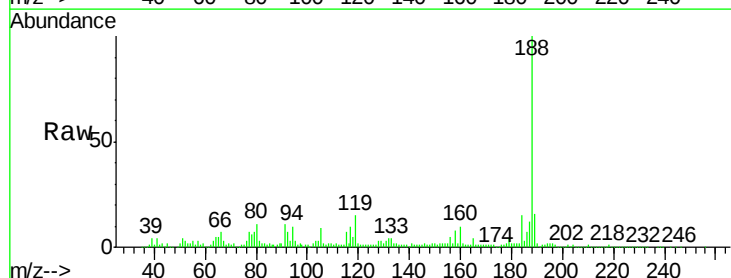
Tgt Ion:188 Resp: 307300

Ion Ratio Lower Upper

188 100

94 10.2 11.1 16.7#

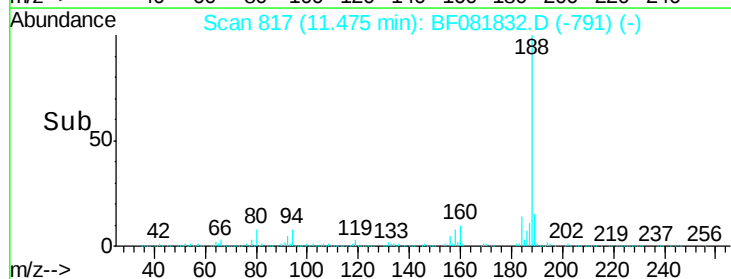
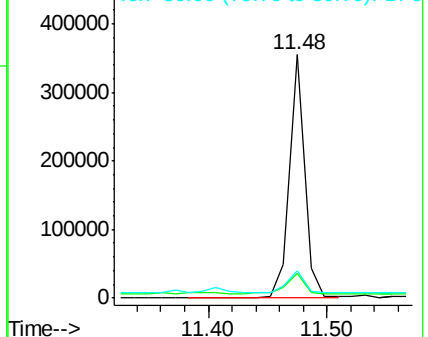
80 11.3 11.0 16.4

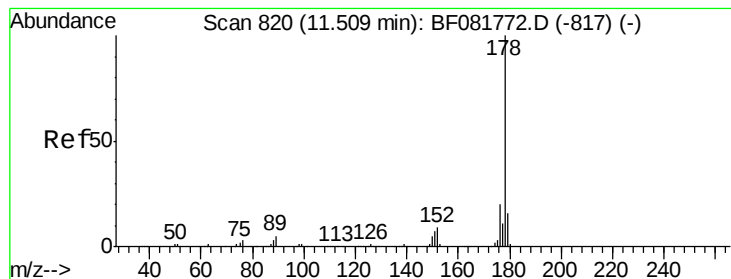


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 22.68 ng m

RT: 11.50 min Scan# 819

Delta R.T. -0.01 min

Lab File: BF081832.D

Acq: 26 Sep 2015 17:25

Instrument :

BNA_F

ClientSampleId :

MGP221BR-30-32

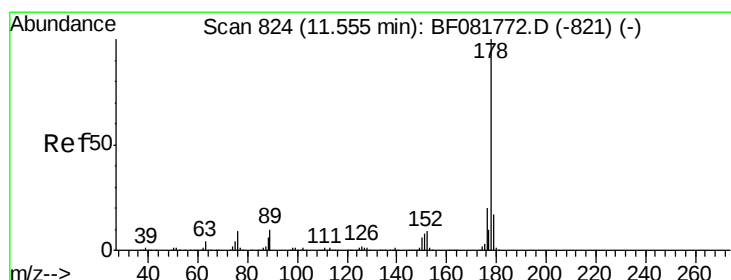
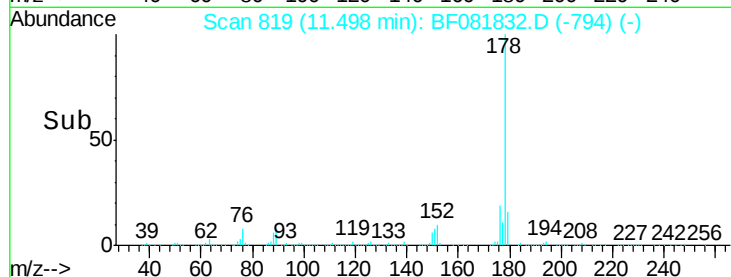
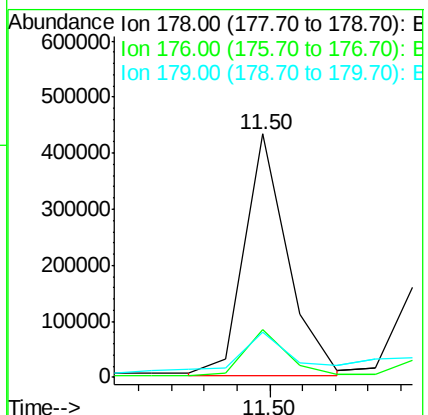
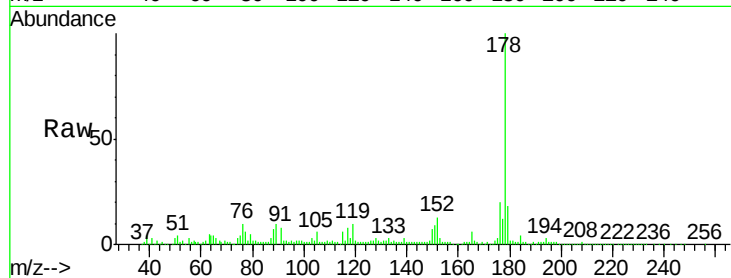
Tgt Ion:178 Resp: 398413

Ion Ratio Lower Upper

178 100

176 19.8 13.8 20.8

179 18.4 12.2 18.2#



#71

Anthracene

Concen: 16.08 ng m

RT: 11.56 min Scan# 824

Delta R.T. 0.00 min

Lab File: BF081832.D

Acq: 26 Sep 2015 17:25

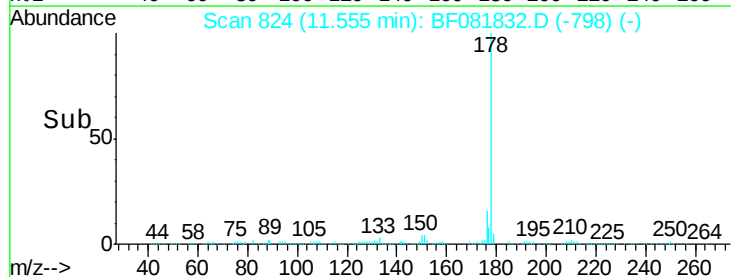
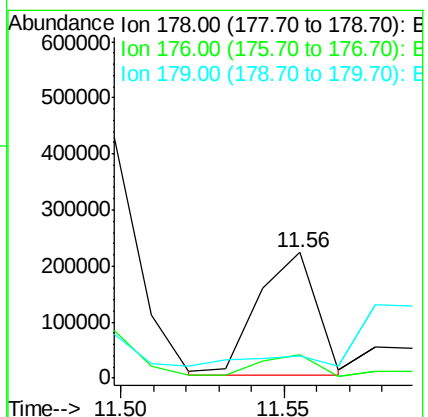
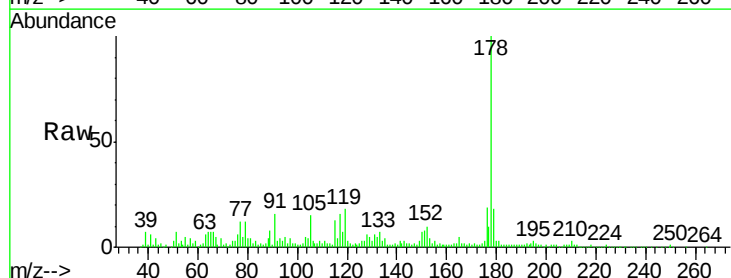
Tgt Ion:178 Resp: 272308

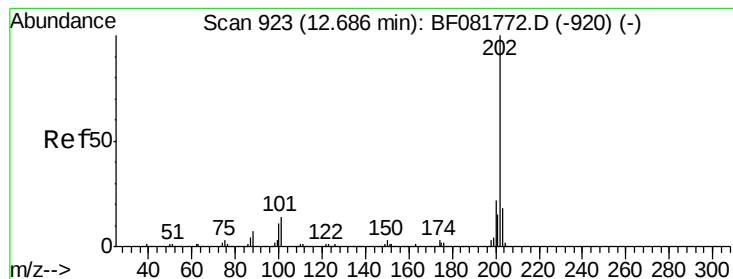
Ion Ratio Lower Upper

178 100

176 18.9 14.1 21.1

179 17.7 12.2 18.2





#74

Fluoranthene

Concen: 70.46 ng

RT: 12.71 min Scan# 925

Delta R.T. 0.02 min

Lab File: BF081832.D

Acq: 26 Sep 2015 17:25

Instrument :

BNA_F

ClientSampleId :

MGP221BR-30-32

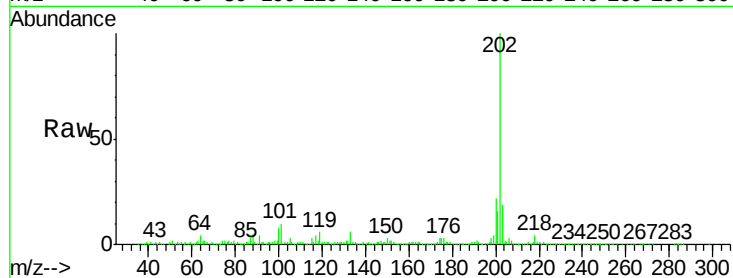
Tgt Ion:202 Resp: 1247331

Ion Ratio Lower Upper

202 100

101 10.4 0.0 38.3

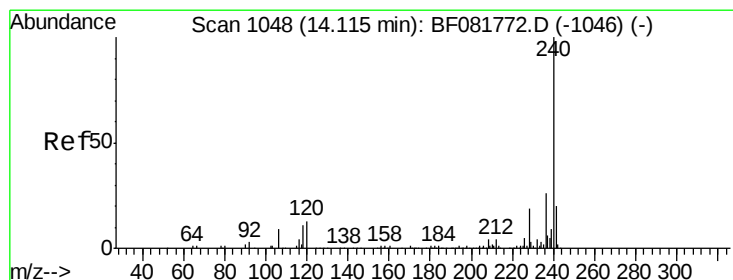
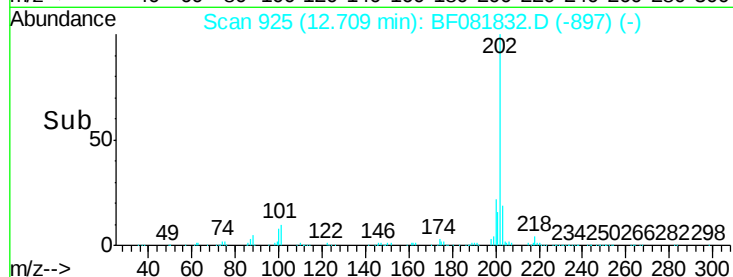
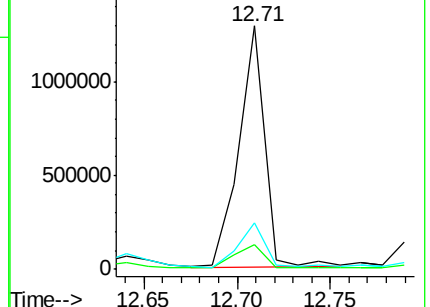
203 19.1 0.0 37.3



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: 14.13 min Scan# 1049

Delta R.T. 0.01 min

Lab File: BF081832.D

Acq: 26 Sep 2015 17:25

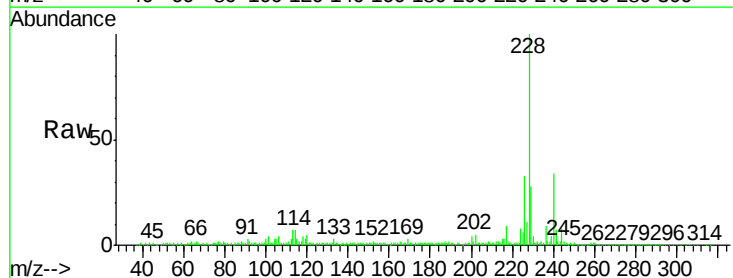
Tgt Ion:240 Resp: 270650

Ion Ratio Lower Upper

240 100

120 15.0 16.2 24.2#

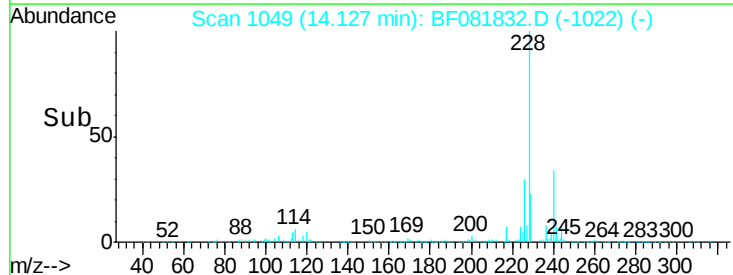
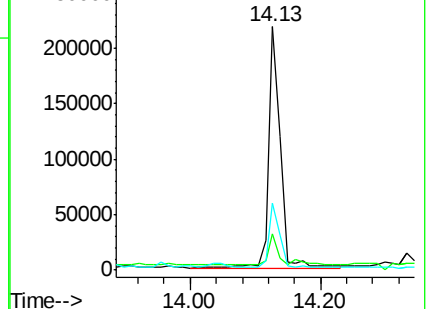
236 27.4 18.4 27.6

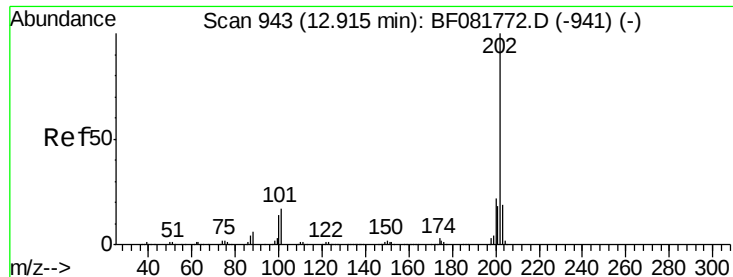


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 86.42 ng m

RT: 12.94 min Scan# 945

Delta R.T. 0.02 min

Lab File: BF081832.D

Acq: 26 Sep 2015 17:25

Instrument :

BNA_F

ClientSampleId :

MGP221BR-30-32

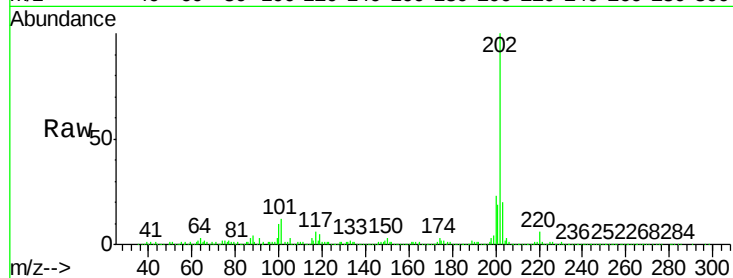
Tgt Ion:202 Resp: 1763494

Ion Ratio Lower Upper

202 100

200 23.0 15.0 22.4#

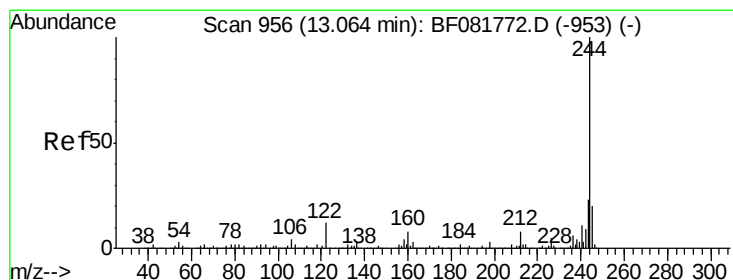
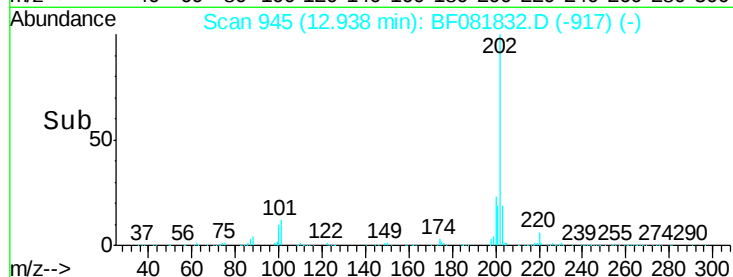
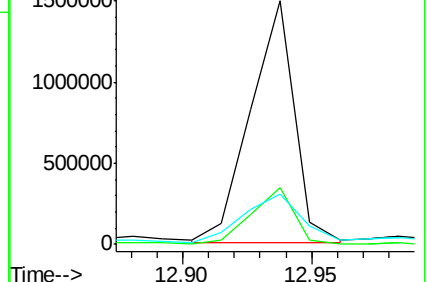
203 20.4 14.1 21.1



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: 45.50 ng

RT: 13.06 min Scan# 956

Delta R.T. 0.00 min

Lab File: BF081832.D

Acq: 26 Sep 2015 17:25

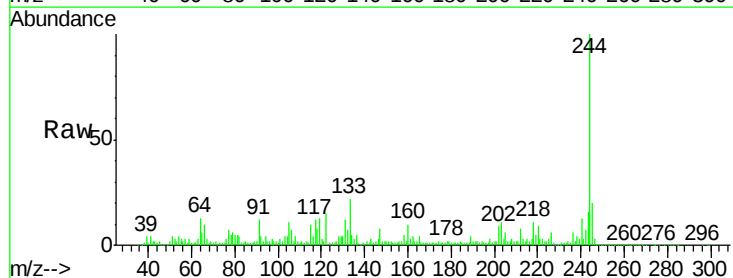
Tgt Ion:244 Resp: 539036

Ion Ratio Lower Upper

244 100

212 8.2 4.3 6.5#

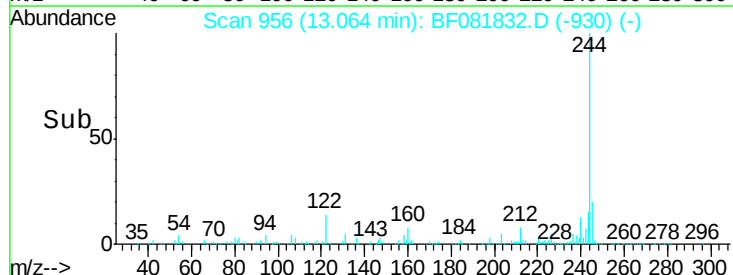
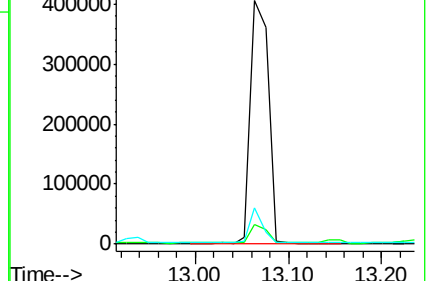
122 14.7 17.4 26.2#

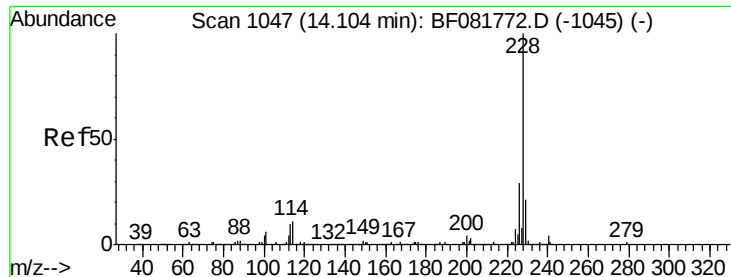


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 78.36 ng

RT: 14.12 min Scan# 1048

Delta R.T. 0.01 min

Lab File: BF081832.D

Acq: 26 Sep 2015 17:25

Instrument :

BNA_F

ClientSampleId :

MGP221BR-30-32

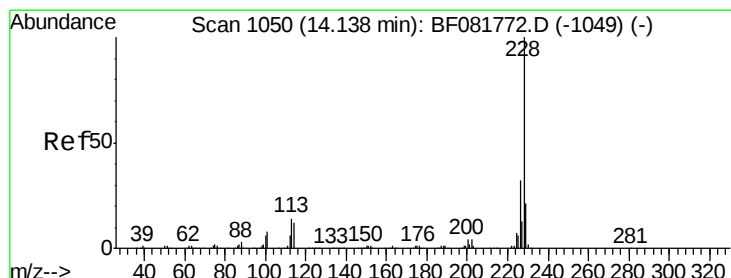
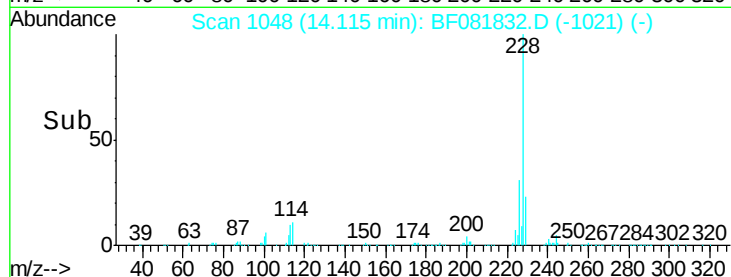
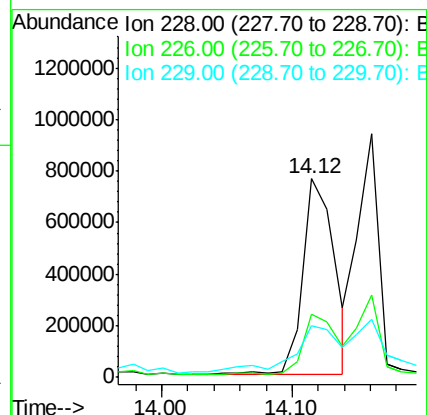
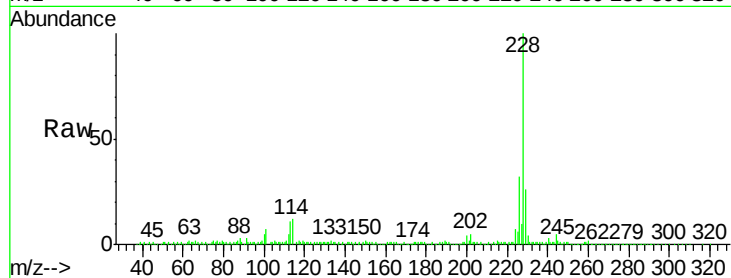
Tgt Ion:228 Resp: 1286021

Ion Ratio Lower Upper

228 100

226 31.8 20.0 30.0#

229 25.9 15.4 23.2#



#82

Chrysene

Concen: 65.81 ng

RT: 14.16 min Scan# 1052

Delta R.T. 0.02 min

Lab File: BF081832.D

Acq: 26 Sep 2015 17:25

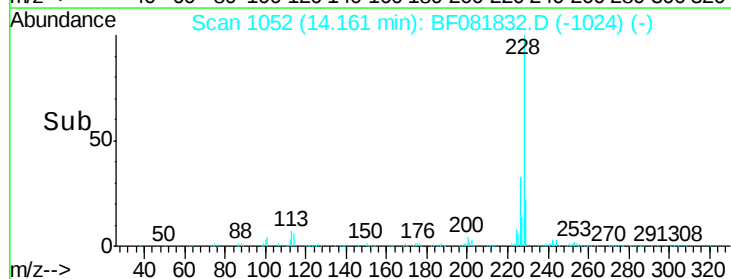
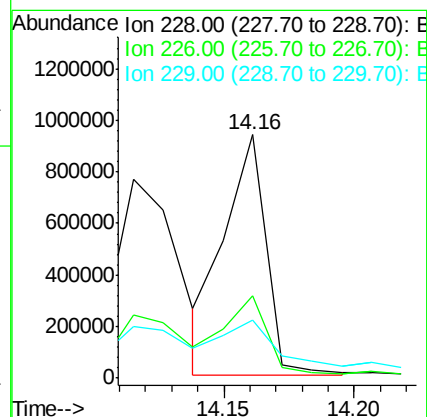
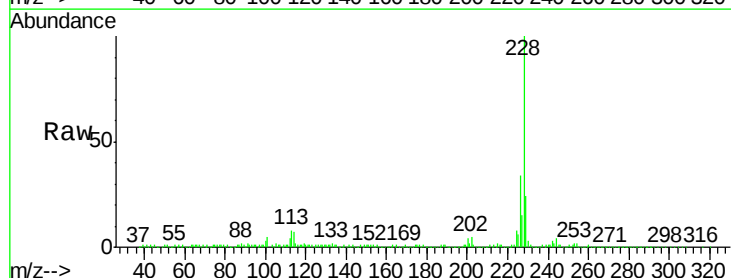
Tgt Ion:228 Resp: 1035796

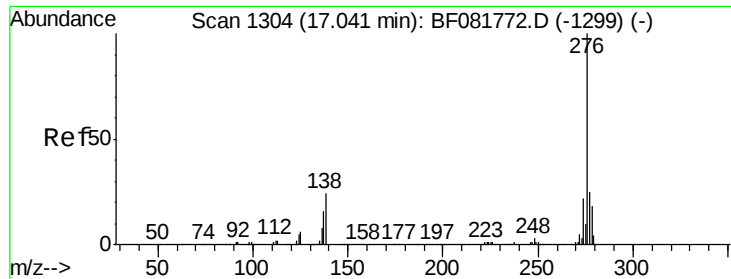
Ion Ratio Lower Upper

228 100

226 33.7 21.0 31.4#

229 23.9 15.6 23.4#





#85

Indeno(1,2,3-cd)pyrene

Concen: 23.41 ng

RT: 17.06 min Scan# 1306

Delta R.T. 0.02 min

Lab File: BF081832.D

Acq: 26 Sep 2015 17:25

Instrument :

BNA_F

ClientSampleId :

MGP221BR-30-32

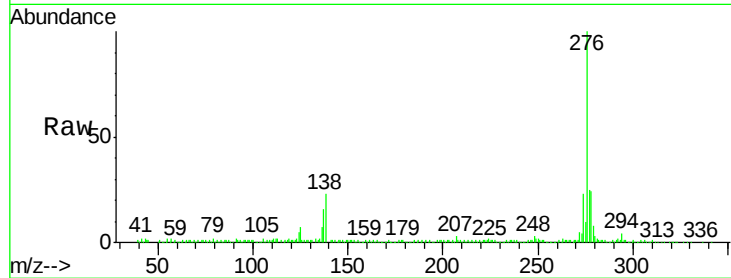
Tgt Ion:276 Resp: 337258

Ion Ratio Lower Upper

276 100

138 21.1 25.7 38.5#

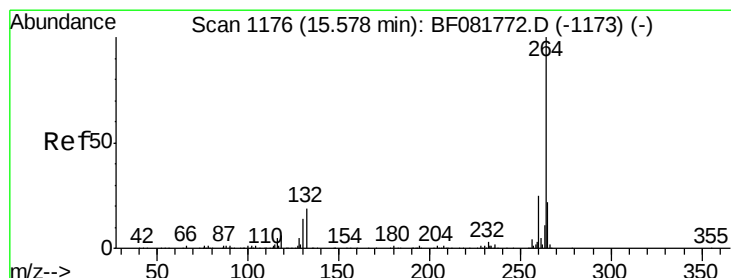
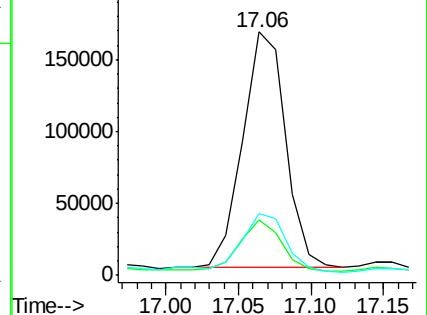
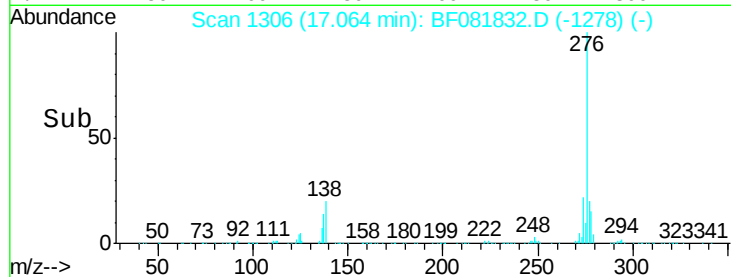
277 26.3 15.6 23.4#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#86

Perylene-d12

Concen: 20.00 ng

RT: 15.60 min Scan# 1178

Delta R.T. 0.02 min

Lab File: BF081832.D

Acq: 26 Sep 2015 17:25

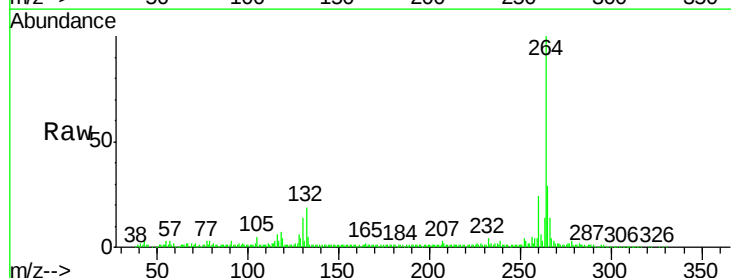
Tgt Ion:264 Resp: 295325

Ion Ratio Lower Upper

264 100

260 24.4 16.7 25.1

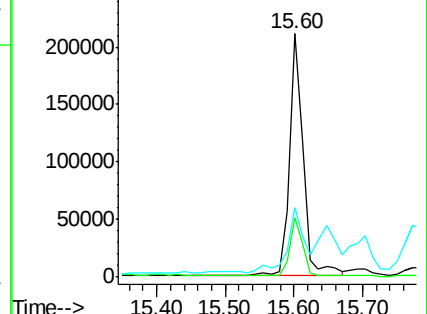
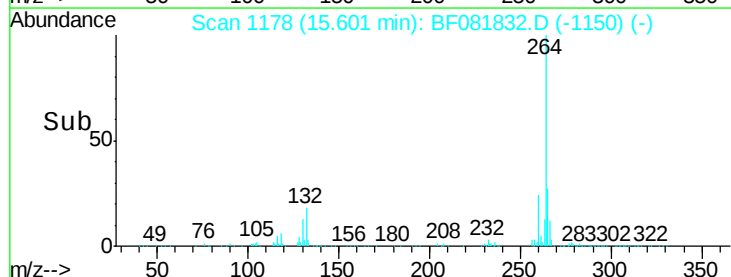
265 28.6 17.2 25.8#

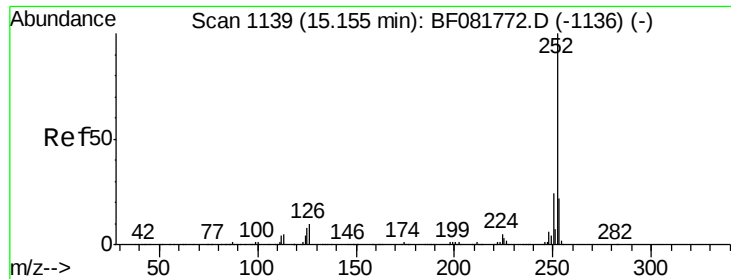


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

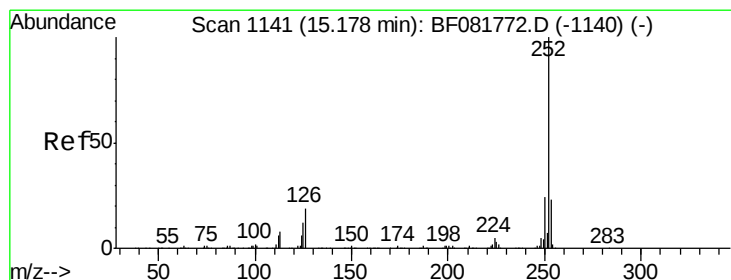
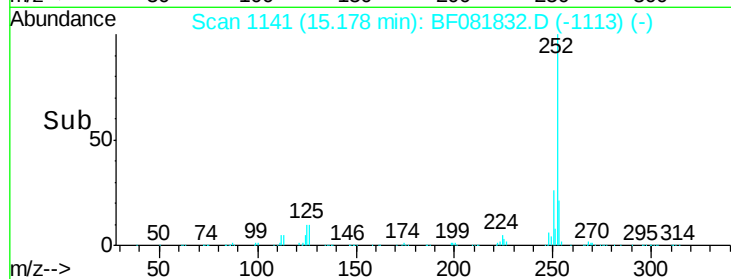
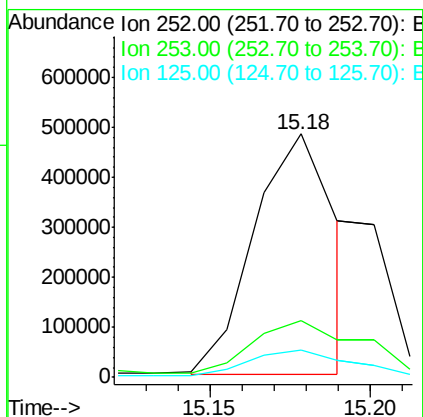
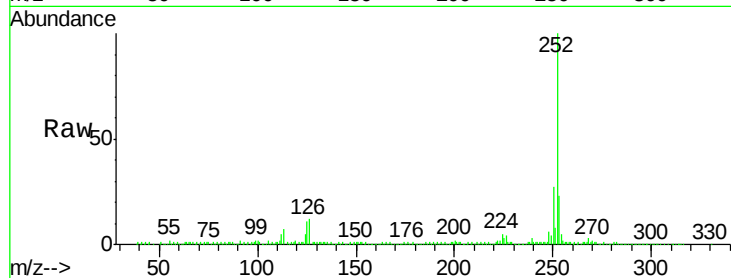




#87
Benzo(b)fluoranthene
Concen: 48.41 ng m
RT: 15.18 min Scan# 1141
Delta R.T. 0.02 min
Lab File: BF081832.D
Acq: 26 Sep 2015 17:25

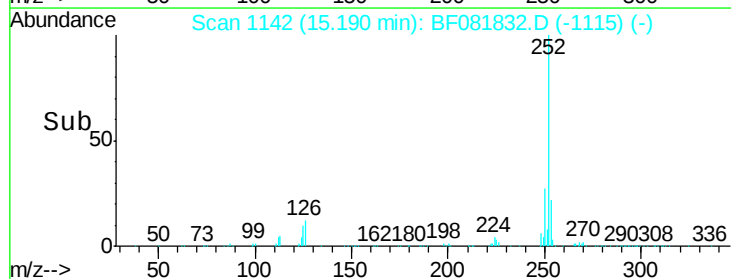
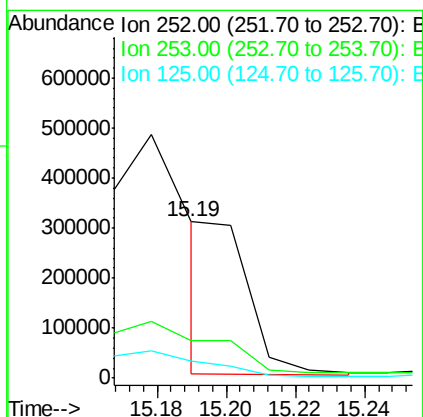
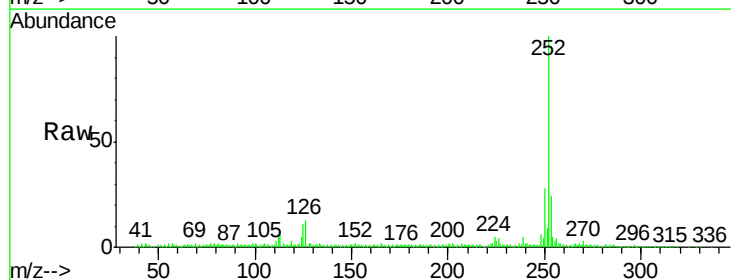
Instrument :
BNA_F
ClientSampleId :
MGP221BR-30-32

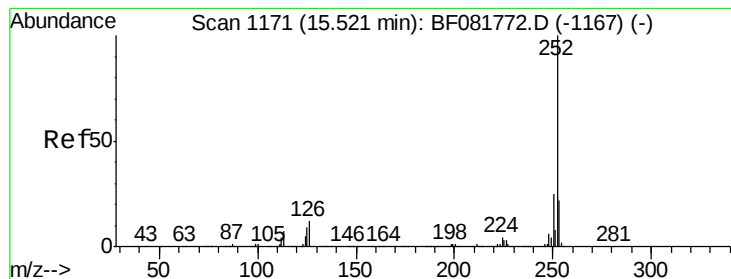
Tgt Ion:252 Resp: 847834
Ion Ratio Lower Upper
252 100
253 23.4 17.5 26.3
125 11.0 17.1 25.7#



#88
Benzo(k)fluoranthene
Concen: 14.25 ng m
RT: 15.19 min Scan# 1142
Delta R.T. 0.01 min
Lab File: BF081832.D
Acq: 26 Sep 2015 17:25

Tgt Ion:252 Resp: 240318
Ion Ratio Lower Upper
252 100
253 23.6 17.0 25.4
125 10.8 16.0 24.0#





#89

Benzo(a)pyrene

Concen: 55.01 ng

RT: 15.54 min Scan# 1173

Delta R.T. 0.02 min

Lab File: BF081832.D

Acq: 26 Sep 2015 17:25

Instrument :

BNA_F

ClientSampleId :

MGP221BR-30-32

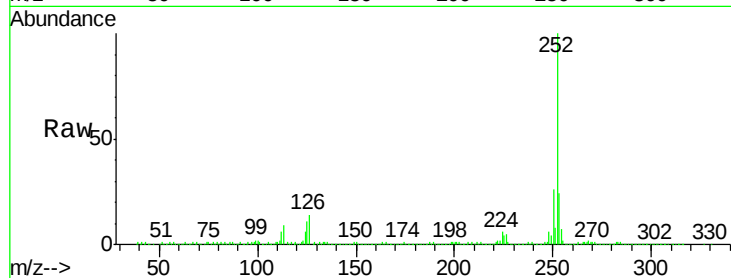
Tgt Ion:252 Resp: 869851

Ion Ratio Lower Upper

252 100

253 23.8 17.2 25.8

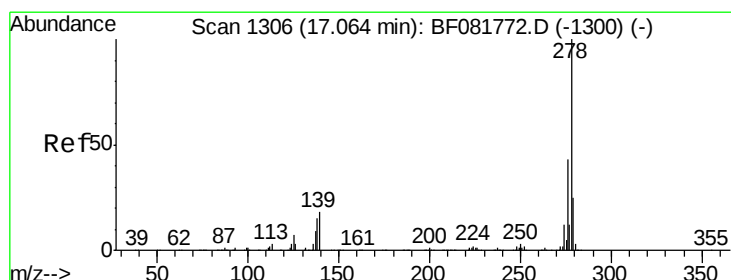
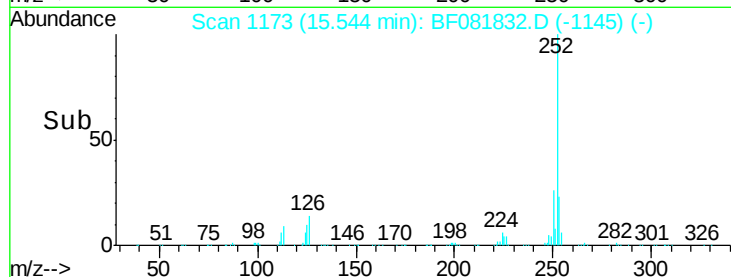
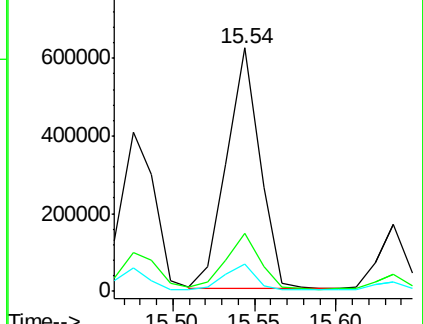
125 11.0 18.0 27.0#



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: 6.26 ng

RT: 17.08 min Scan# 1307

Delta R.T. 0.01 min

Lab File: BF081832.D

Acq: 26 Sep 2015 17:25

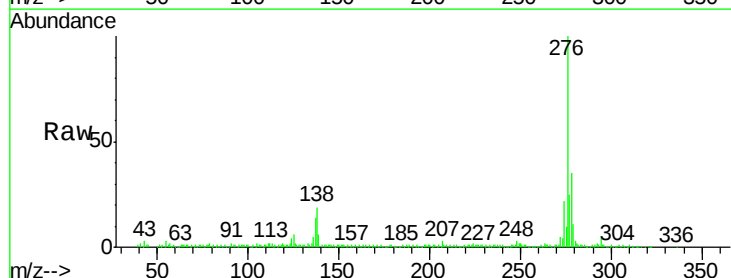
Tgt Ion:278 Resp: 103108

Ion Ratio Lower Upper

278 100

139 17.9 26.3 39.5#

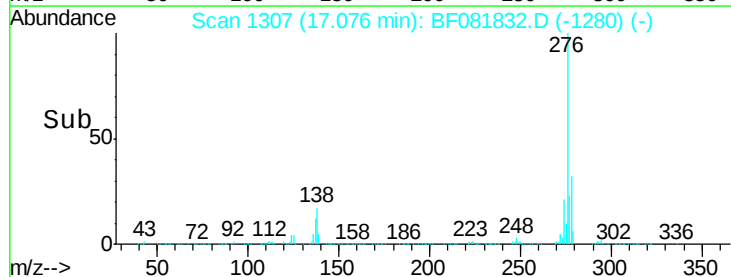
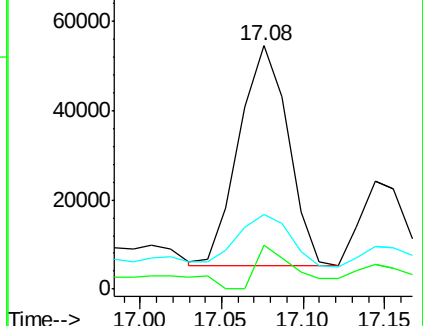
279 30.5 18.2 27.4#

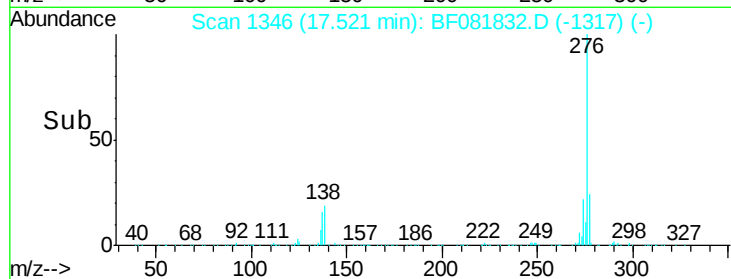
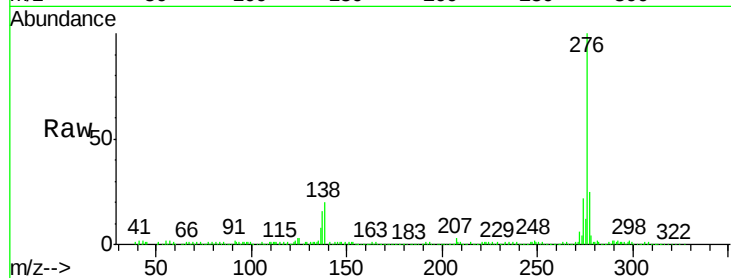
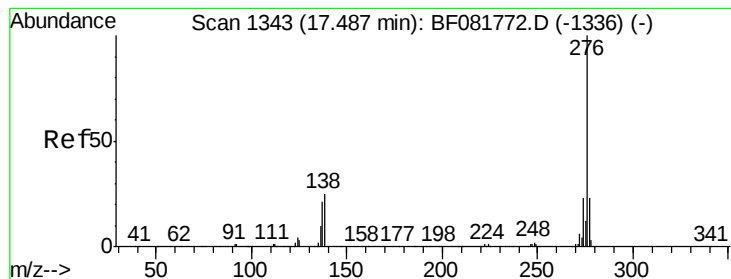


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(g,h,i)perylene

Concen: 23.27 ng

RT: 17.52 min Scan# 1346

Delta R.T. 0.03 min

Lab File: BF081832.D

Acq: 26 Sep 2015 17:25

Instrument :

BNA_F

ClientSampleId :

MGP221BR-30-32

Tgt Ion: 276 Resp: 395353

Ion Ratio Lower Upper

276 100

277 24.8 17.8 26.6

138 20.1 34.6 51.8#

