

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052016\
 Data File : BF087230.D
 Acq On : 20 May 2016 17:59
 Operator : UM/SJ
 Sample : PB90703BL
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PB90703BL

Quant Time: May 20 23:22:56 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF051716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 17 16:55:01 2016
 Response via : Initial Calibration

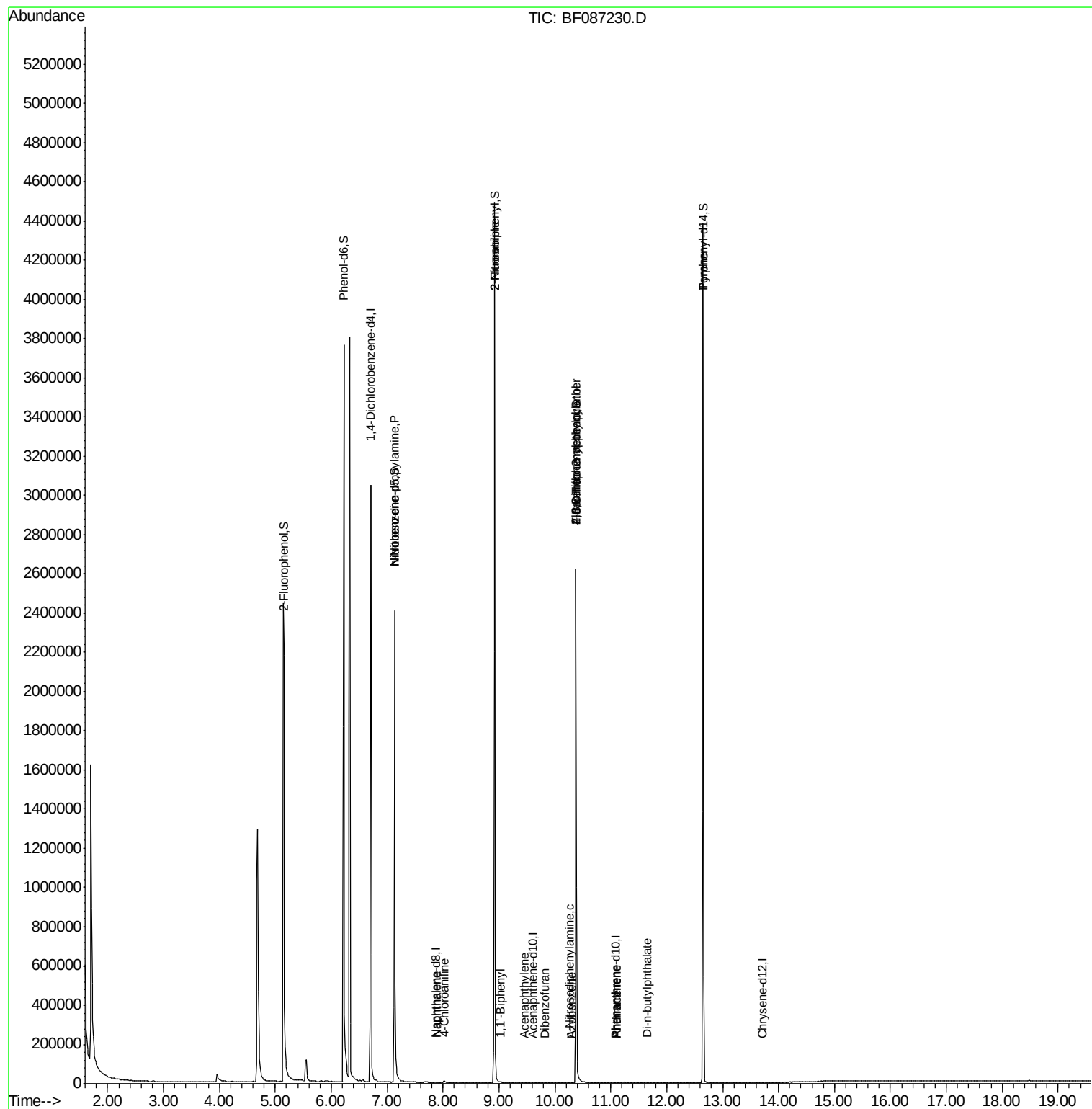
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.71	152	406764	20.00	ng	0.10
21) Naphthalene-d8	7.87	136	637	20.00	ng	-0.02
38) Acenaphthene-d10	9.60	164	288	20.00	ng	-0.05
63) Phenanthrene-d10	11.08	188	1052	20.00	ng	-0.03
75) Chrysene-d12	13.71	240	283	20.00	ng	-0.05
86) Perylene-d12	0.00	264	0	0.00	ng	-15.11
System Monitoring Compounds						
5) 2-Fluorophenol	5.15	112	956847	39.54	ng	-0.05
7) Phenol-d6	6.23	99	1340531	41.30	ng	-0.06
23) Nitrobenzene-d5	7.13	82	787303	61597.94	ng	-0.06
41) 2,4,6-Tribromophenol	10.38	330	330365	103805.50	ng	-0.07
44) 2-Fluorobiphenyl	8.92	172	1531223	88053.79	ng	-0.06
78) Terphenyl-d14	12.65	244	1355221	108326.45	ng	-0.06
Target Compounds						
9) Benzaldehyde	6.23	77	1852	Below Cal	#	4
19) n-Nitroso-di-n-propylamine	7.13	70	110787	4.49	ng	# 73
24) Nitrobenzene	7.13	77	2504	179.43	ng	# 38
31) Naphthalene	7.88	128	453	14.55	ng	# 69
33) 4-Chloroaniline	8.02	127	213	16.47	ng	# 1
45) 1,1'-Biphenyl	9.03	154	645	27.01	ng	# 43
47) 2-Nitroaniline	8.92	65	3215	457.64	ng	# 1
48) Acenaphthylene	9.46	152	258	9.22	ng	# 60
54) Dibenzofuran	9.82	168	355	15.70	ng	# 44
57) Fluorene	10.38	166	13606	748.80	ng	# 93
62) Azobenzene	10.30	77	241	9.97	ng	# 1
64) 4,6-Dinitro-2-methylphenol	10.38	198	513	74.04	ng	# 1
65) n-Nitrosodiphenylamine	10.26	169	362	10.93	ng	# 24
66) 4-Bromophenyl-phenylether	10.38	248	20589	1903.20	ng	# 1
70) Phenanthrene	11.11	178	381	6.68	ng	# 59
71) Anthracene	11.11	178	381	6.60	ng	# 60
73) Di-n-butylphthalate	11.64	149	1557	25.71	ng	# 78
76) Benzidine	12.65	184	20669	Below Cal		97
77) Pyrene	12.65	202	5056	247.30	ng	# 70

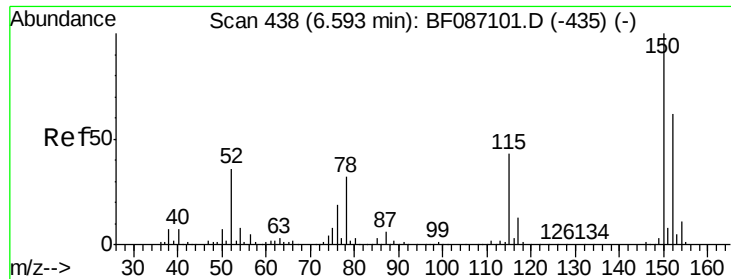
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.71 min Scan# 448

Delta R.T. 0.10 min

Lab File: BF087230.D

Acq: 20 May 2016 17:59

Instrument :

BNA_F

ClientSampleId :

PB90703BL

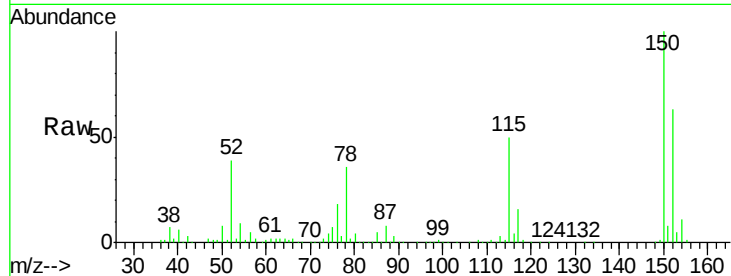
Tgt Ion:152 Resp: 406764

Ion Ratio Lower Upper

152 100

150 157.8 125.8 188.6

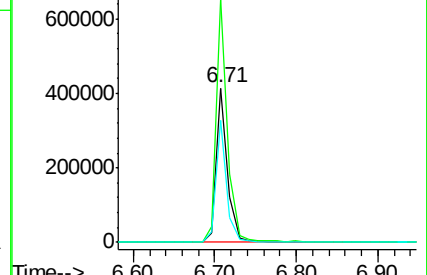
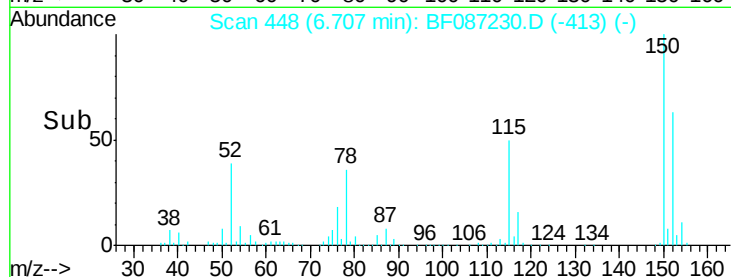
115 79.5 51.5 77.3#



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: 39.54 ng

RT: 5.15 min Scan# 312

Delta R.T. -0.05 min

Lab File: BF087230.D

Acq: 20 May 2016 17:59

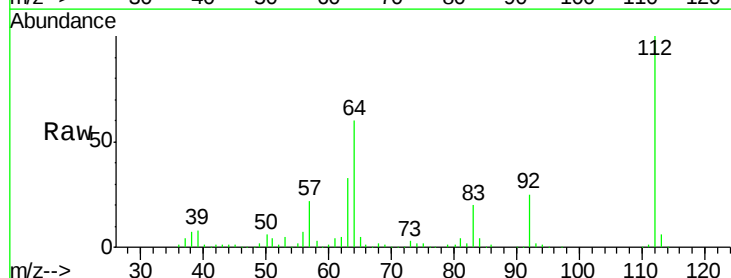
Tgt Ion:112 Resp: 956847

Ion Ratio Lower Upper

112 100

64 59.7 52.1 78.1

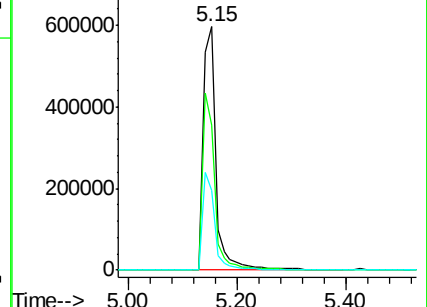
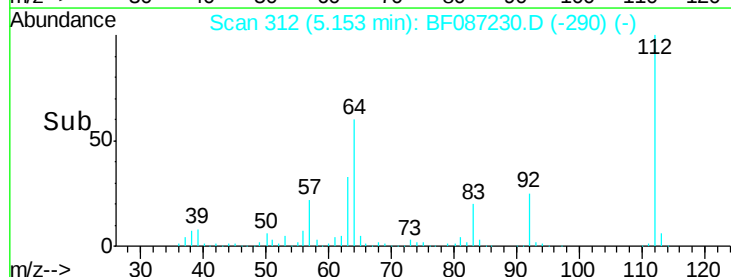
63 33.0 25.7 38.5



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: 41.30 ng

RT: 6.23 min Scan# 406

Delta R.T. -0.06 min

Lab File: BF087230.D

Acq: 20 May 2016 17:59

Instrument :

BNA_F

ClientSampleId :

PB90703BL

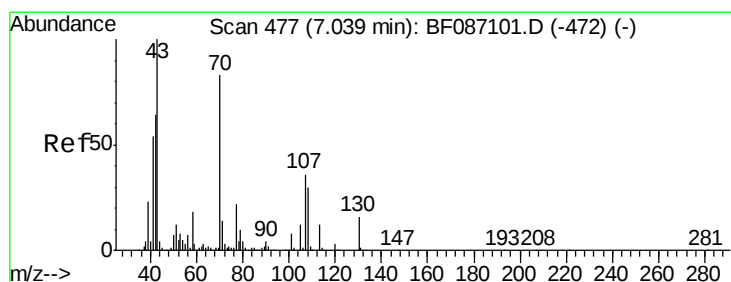
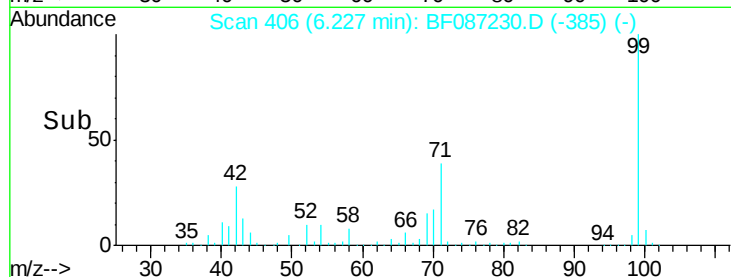
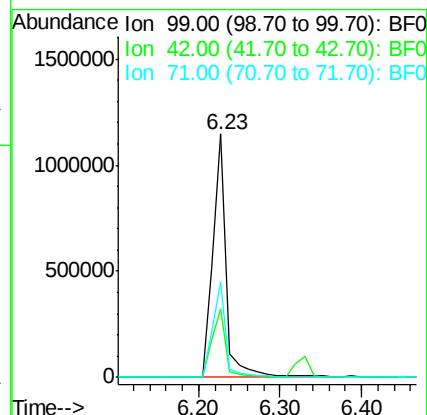
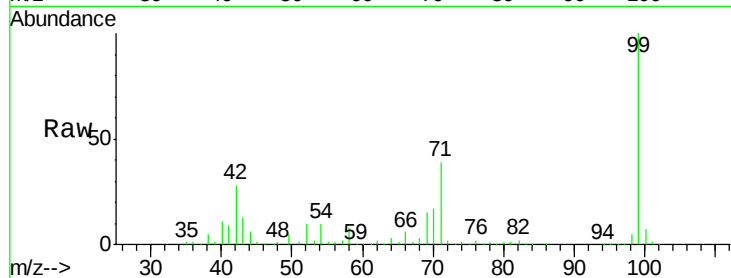
Tgt Ion: 99 Resp: 1340531

Ion Ratio Lower Upper

99 100

42 28.0 13.6 20.4#

71 39.3 24.6 36.8#



#19

n-Nitroso-di-n-propylamine

Concen: 4.49 ng

RT: 7.13 min Scan# 485

Delta R.T. 0.08 min

Lab File: BF087230.D

Acq: 20 May 2016 17:59

Tgt Ion: 70 Resp: 110787

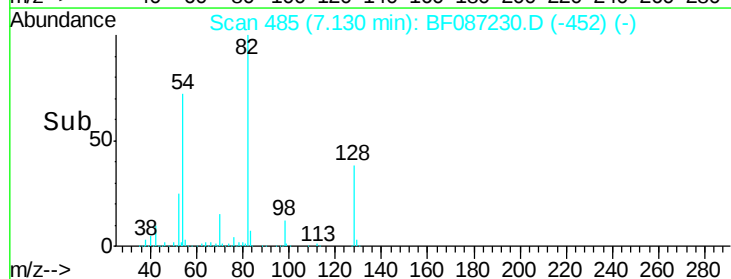
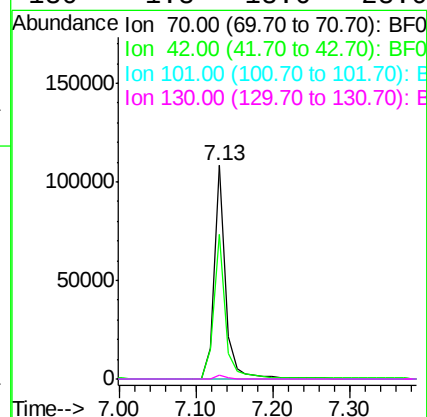
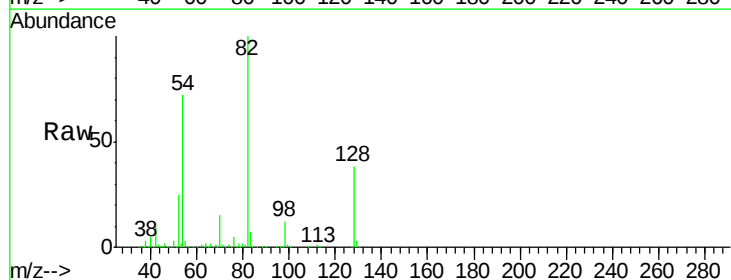
Ion Ratio Lower Upper

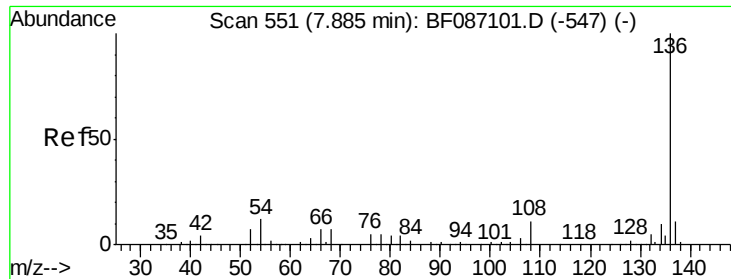
70 100

42 67.5 43.1 64.7#

101 0.0 8.1 12.1#

130 1.8 18.6 28.0#

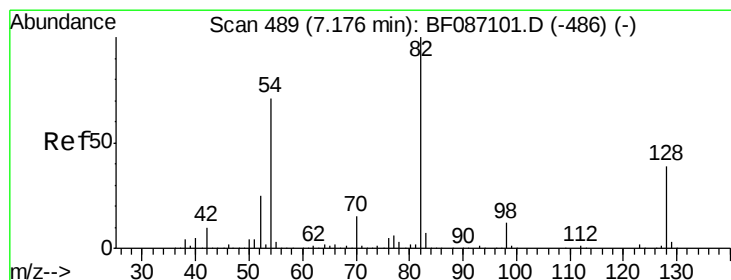
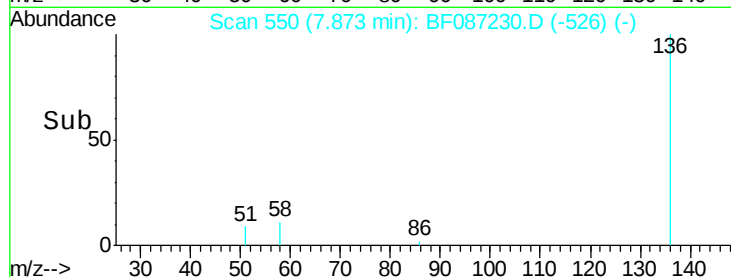
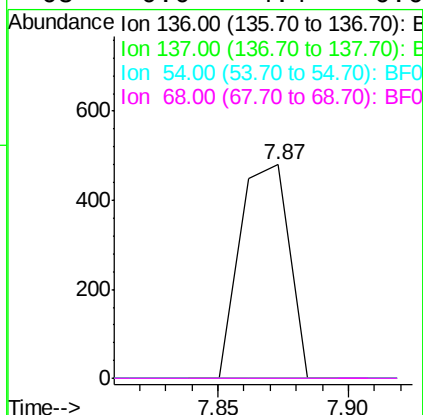
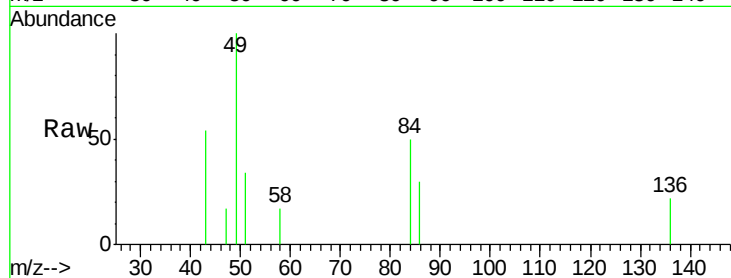




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.87 min Scan# 550
Delta R.T. -0.02 min
Lab File: BF087230.D
Acq: 20 May 2016 17:59

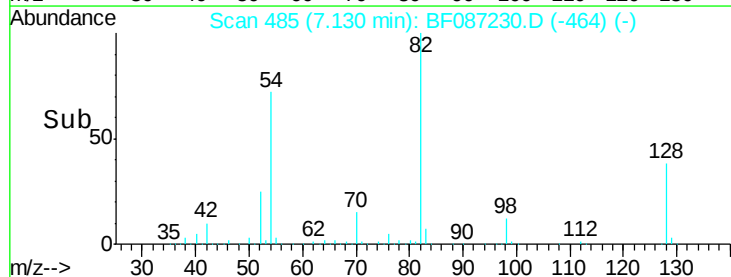
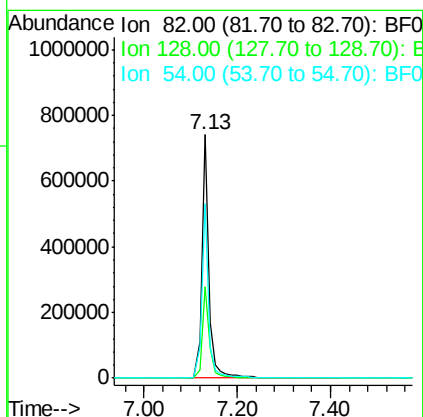
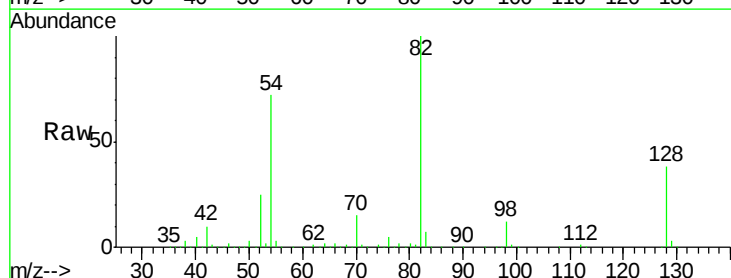
Instrument :
BNA_F
ClientSampleId :
PB90703BL

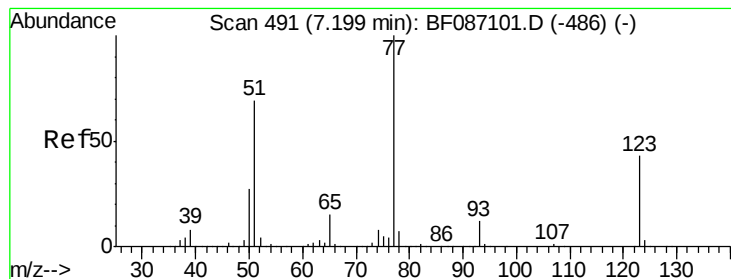
Tgt Ion:	136	Resp:	637
Ion	Ratio	Lower	Upper
136	100		
137	0.0	8.8	13.2#
54	0.0	5.0	7.4#
68	0.0	4.4	6.6#



#23
Nitrobenzene-d5
Concen: 61597.94 ng
RT: 7.13 min Scan# 485
Delta R.T. -0.06 min
Lab File: BF087230.D
Acq: 20 May 2016 17:59

Tgt Ion:	82	Resp:	787303
Ion	Ratio	Lower	Upper
82	100		
128	37.6	40.6	61.0#
54	71.7	38.1	57.1#





#24

Nitrobenzene

Concen: 179.43 ng

RT: 7.13 min Scan# 485

Delta R.T. -0.08 min

Lab File: BF087230.D

Acq: 20 May 2016 17:59

Instrument :

BNA_F

ClientSampleId :

PB90703BL

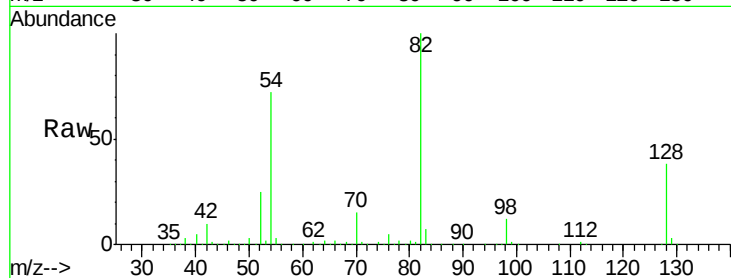
Tgt Ion: 77 Resp: 2504

Ion Ratio Lower Upper

77 100

123 0.0 33.0 49.4#

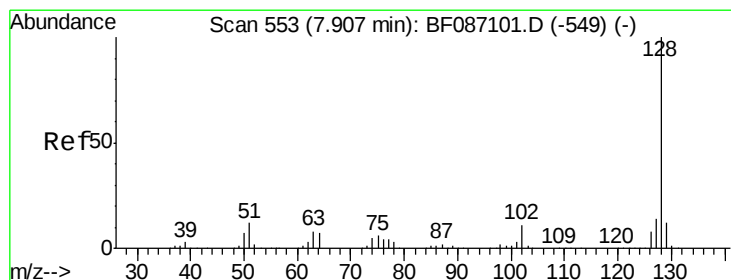
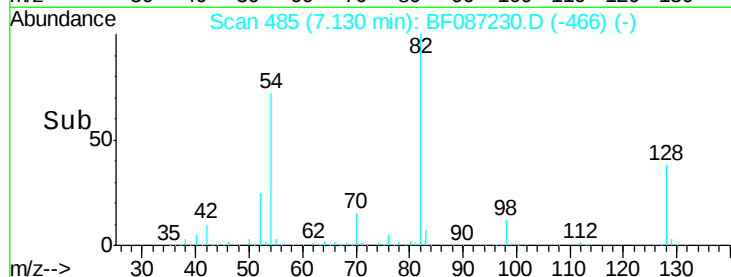
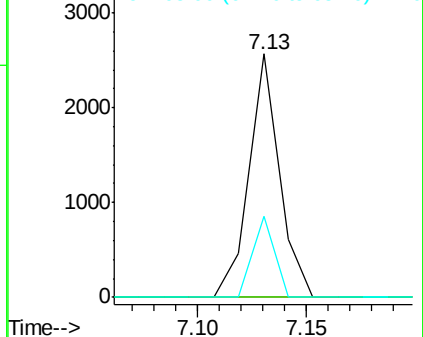
65 33.3 10.8 16.2#



Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 123.00 (122.70 to 123.70): E

Ion 65.00 (64.70 to 65.70): BF0



#31

Naphthalene

Concen: 14.55 ng

RT: 7.88 min Scan# 551

Delta R.T. -0.03 min

Lab File: BF087230.D

Acq: 20 May 2016 17:59

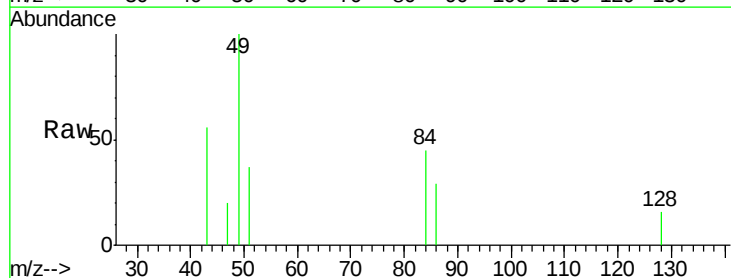
Tgt Ion: 128 Resp: 453

Ion Ratio Lower Upper

128 100

129 0.0 8.6 13.0#

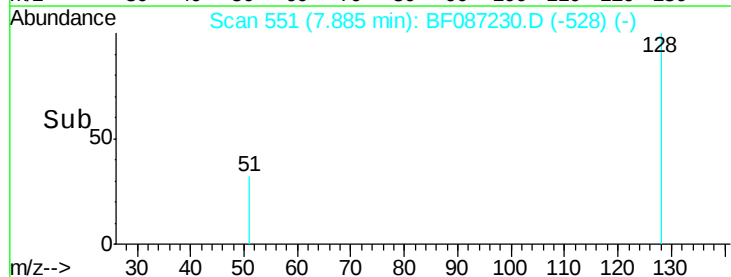
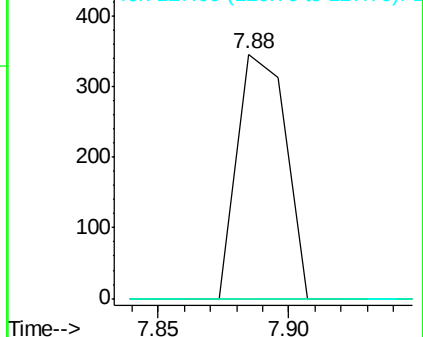
127 0.0 10.8 16.2#

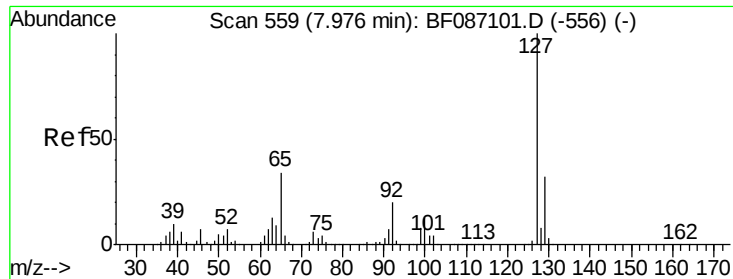


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

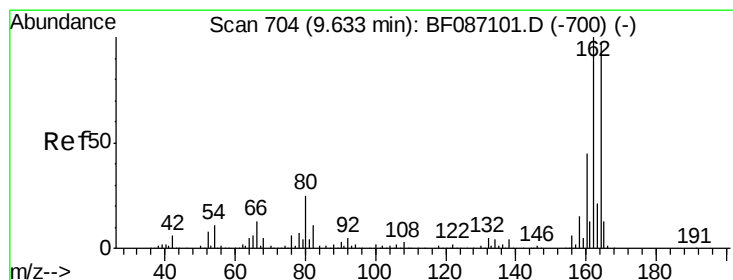
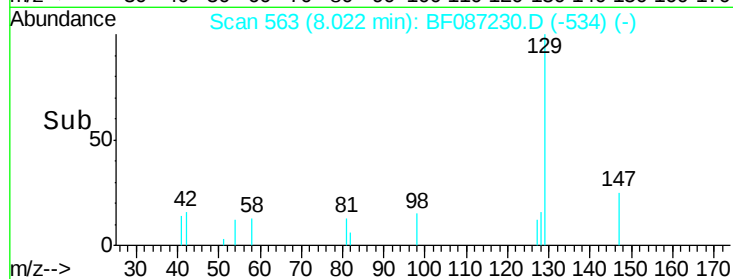
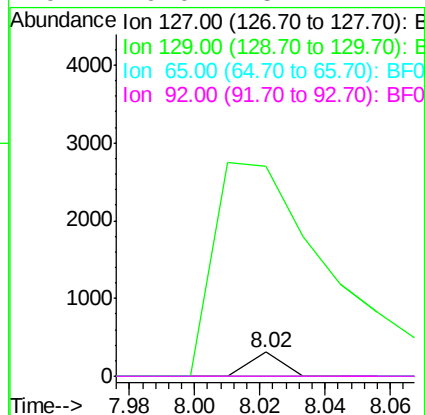
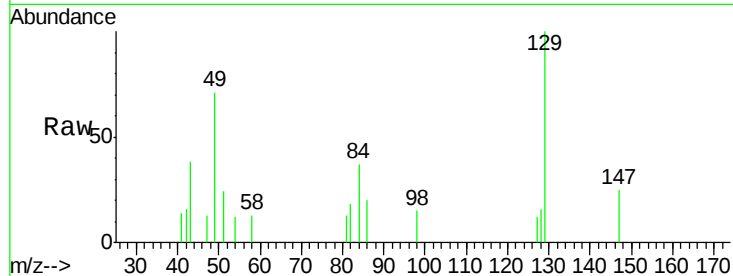




#33
 4-Chloroaniline
 Concen: 16.47 ng
 RT: 8.02 min Scan# 563
 Delta R.T. 0.03 min
 Lab File: BF087230.D
 Acq: 20 May 2016 17:59

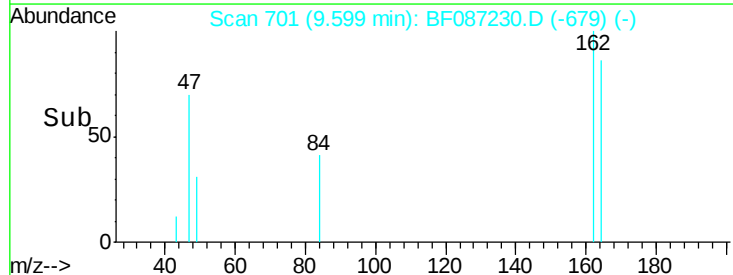
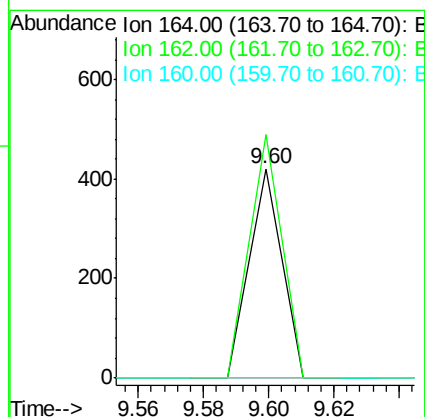
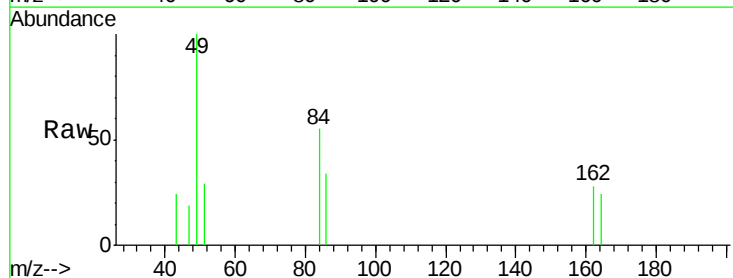
Instrument :
 BNA_F
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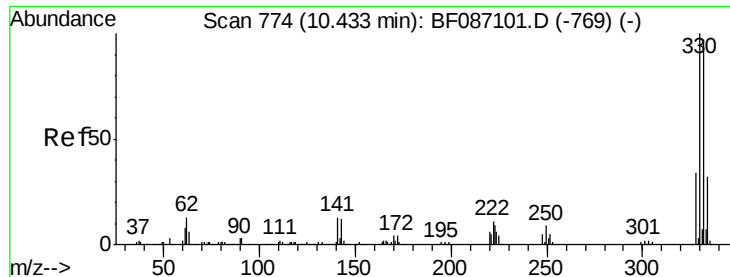
Tgt Ion:	127	Resp:	213
Ion	Ratio	Lower	Upper
127	100		
129	867.2	26.2	39.4#
65	0.0	23.0	34.4#
92	0.0	15.1	22.7#



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.60 min Scan# 701
 Delta R.T. -0.05 min
 Lab File: BF087230.D
 Acq: 20 May 2016 17:59

Tgt Ion:	164	Resp:	288
Ion	Ratio	Lower	Upper
164	100		
162	116.4	82.8	124.2
160	0.0	36.9	55.3#

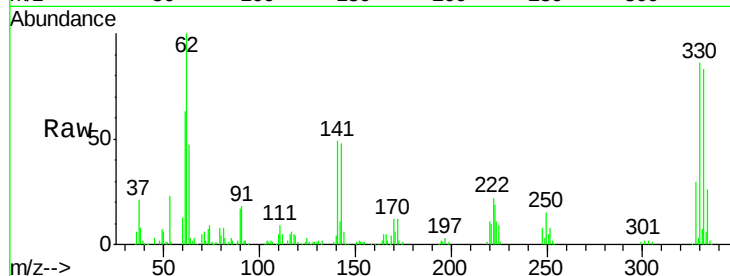




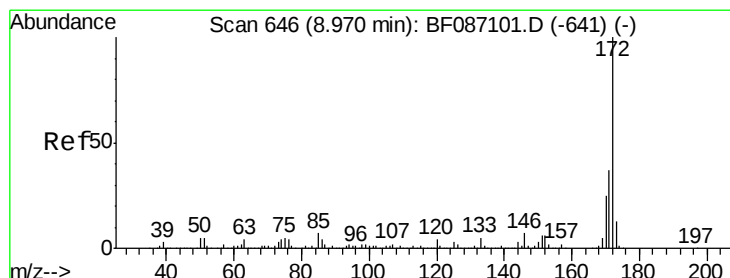
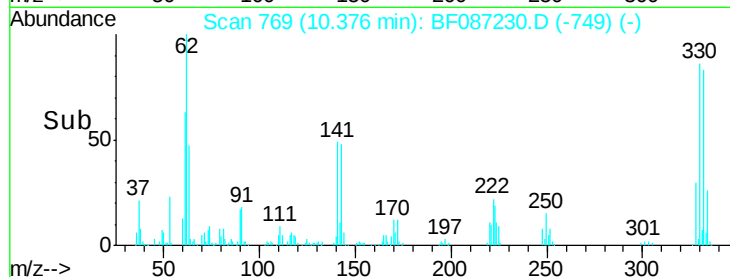
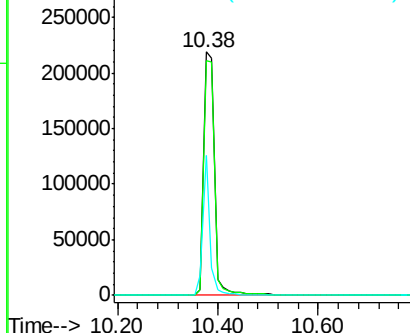
#41
 2,4,6-Tribromophenol
 Concen: 103805.50 ng
 RT: 10.38 min Scan# 769
 Delta R.T. -0.07 min
 Lab File: BF087230.D
 Acq: 20 May 2016 17:59

Instrument :
 BNA_F
 ClientSampleId :
 PB90703BL

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.3	79.0	118.4
141	37.8	31.2	46.8

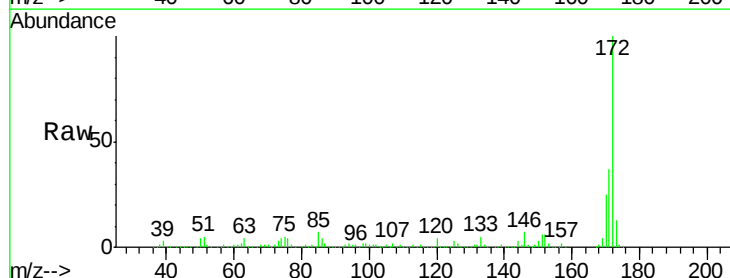


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

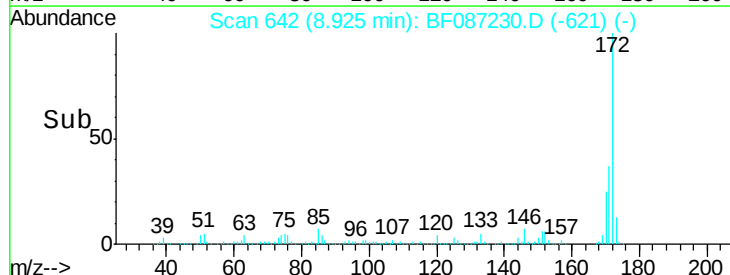
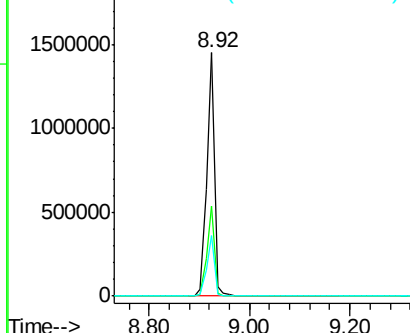


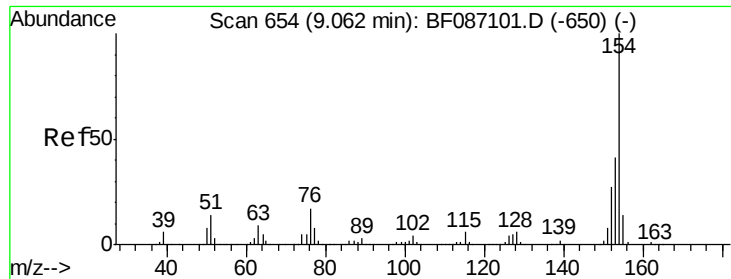
#44
 2-Fluorobiphenyl
 Concen: 88053.79 ng
 RT: 8.92 min Scan# 642
 Delta R.T. -0.06 min
 Lab File: BF087230.D
 Acq: 20 May 2016 17:59

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.7	29.0	43.6
170	24.6	19.8	29.8



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





#45

1,1'-Biphenyl

Concen: 27.01 ng

RT: 9.03 min Scan# 651

Delta R.T. -0.05 min

Lab File: BF087230.D

Acq: 20 May 2016 17:59

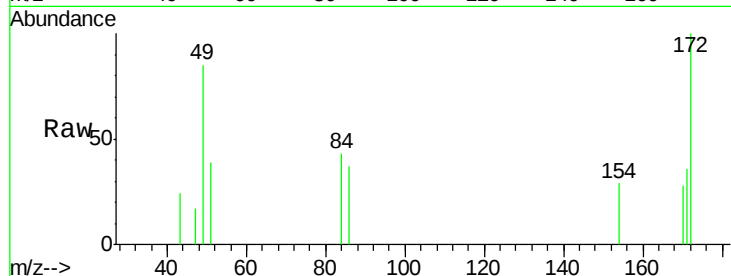
Instrument :

BNA_F

ClientSampleId :

PB90703BL

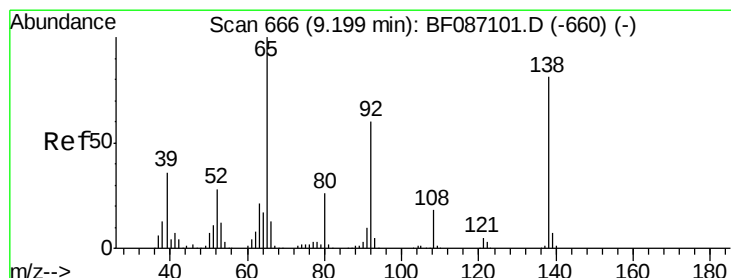
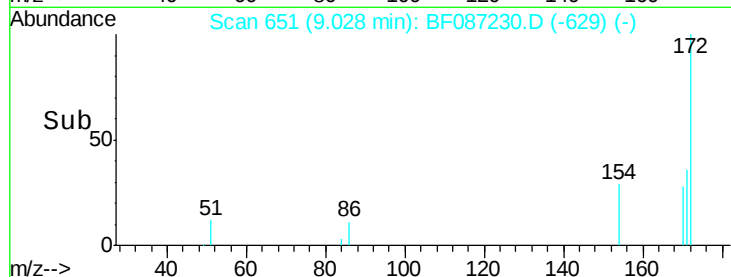
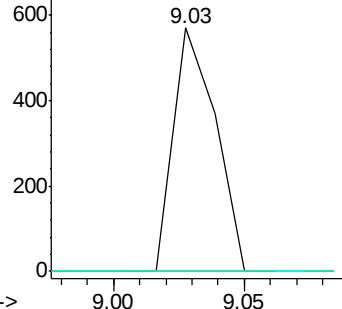
Tgt Ion:	154	Resp:	645
Ion Ratio	Lower	Upper	
154	100		
153	0.0	20.3	60.3#
76	0.0	0.0	30.2



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0



#47

2-Nitroaniline

Concen: 457.64 ng

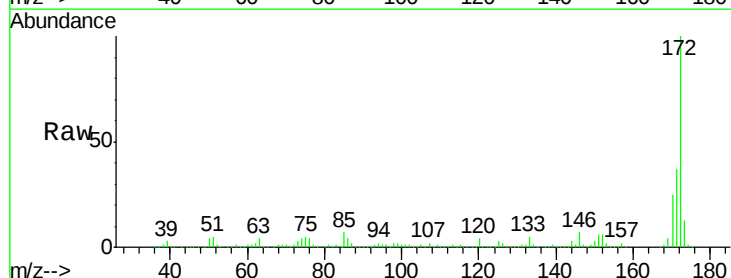
RT: 8.92 min Scan# 642

Delta R.T. -0.29 min

Lab File: BF087230.D

Acq: 20 May 2016 17:59

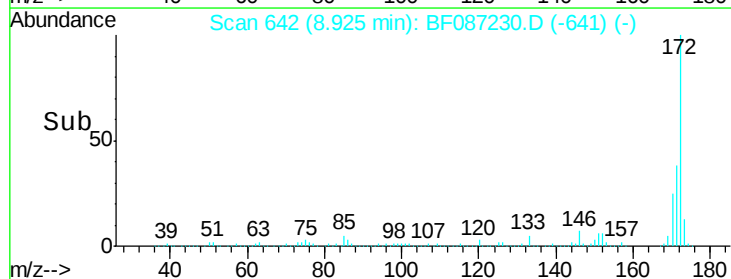
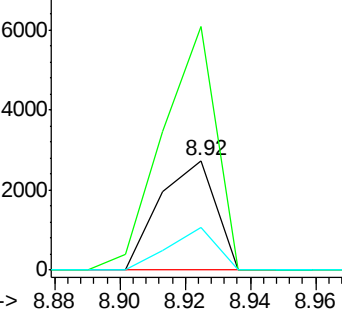
Tgt Ion:	65	Resp:	3215
Ion Ratio	Lower	Upper	
65	100		
92	222.5	57.4	86.2#
138	38.9	90.1	135.1#

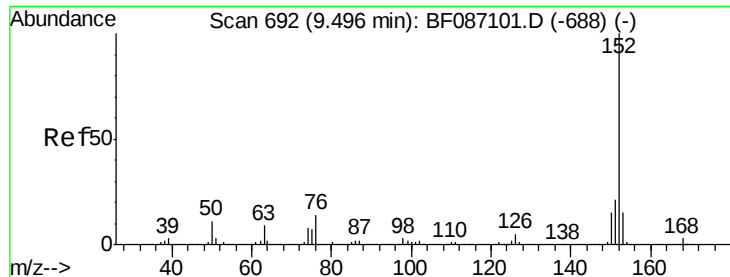


Abundance Ion 65.00 (64.70 to 65.70): BF0

Ion 92.00 (91.70 to 92.70): BF0

Ion 138.00 (137.70 to 138.70): E





#48

Acenaphthylene

Concen: 9.22 ng

RT: 9.46 min Scan# 689

Delta R.T. -0.05 min

Lab File: BF087230.D

Acq: 20 May 2016 17:59

Instrument :

BNA_F

ClientSampleId :

PB90703BL

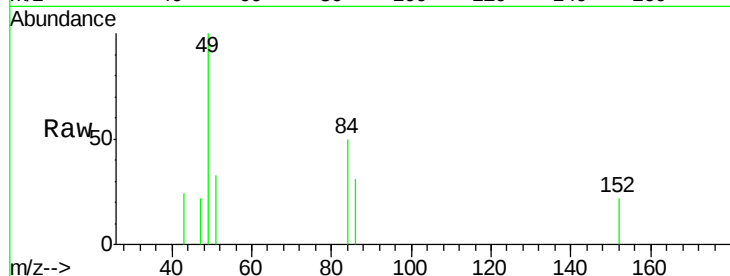
Tgt Ion:152 Resp: 258

Ion Ratio Lower Upper

152 100

151 0.0 16.8 25.2#

153 0.0 10.9 16.3#

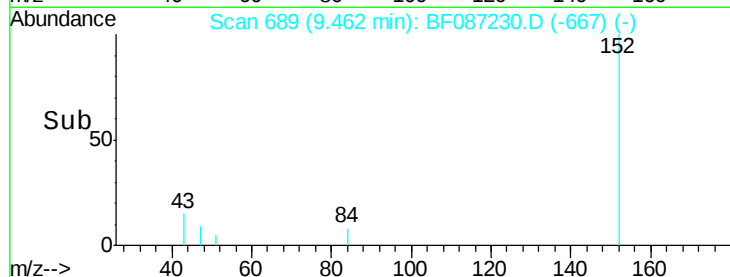


Abundance Ion 152.00 (151.70 to 152.70): E

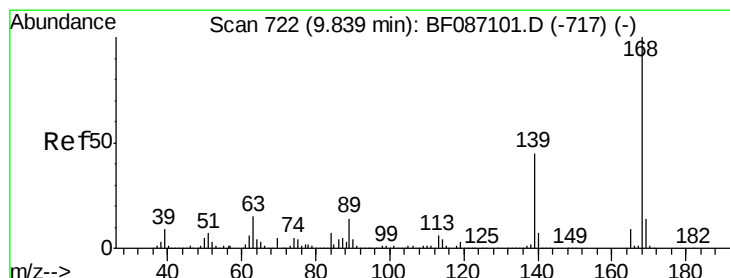
Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

9.46



Time--> 9.42 9.44 9.46 9.48 9.50



#54

Dibenzofuran

Concen: 15.70 ng

RT: 9.82 min Scan# 720

Delta R.T. -0.03 min

Lab File: BF087230.D

Acq: 20 May 2016 17:59

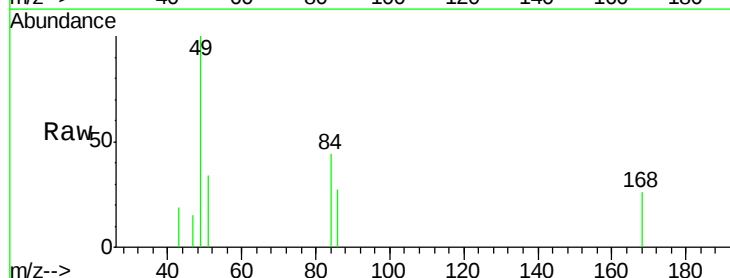
Tgt Ion:168 Resp: 355

Ion Ratio Lower Upper

168 100

139 0.0 31.4 47.0#

169 0.0 10.7 16.1#

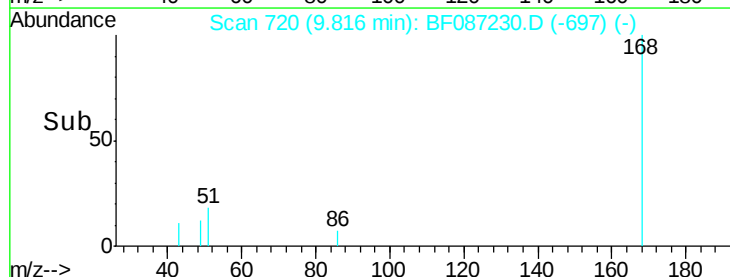


Abundance Ion 168.00 (167.70 to 168.70): E

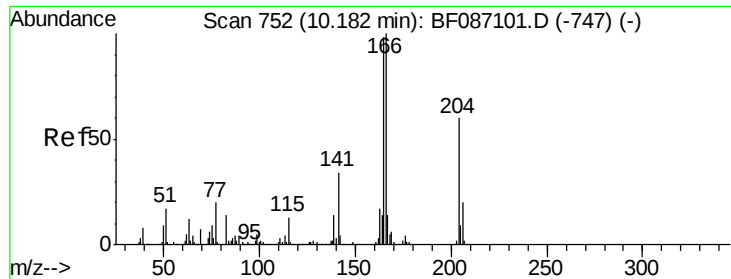
Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

9.82



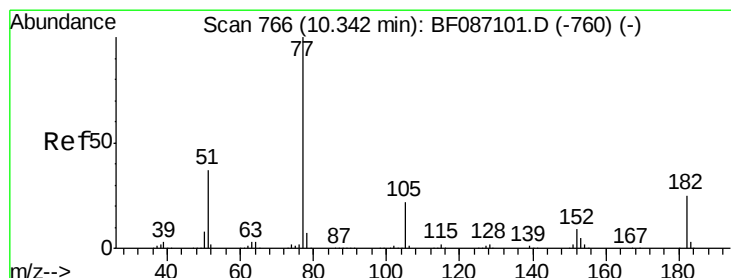
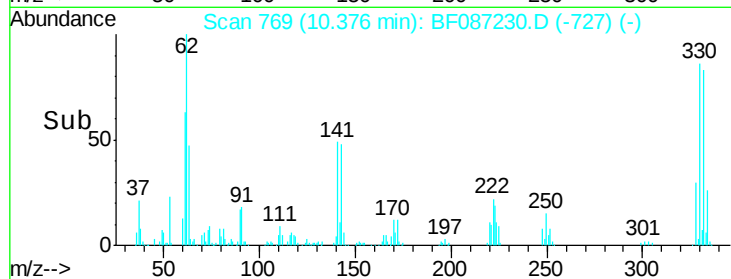
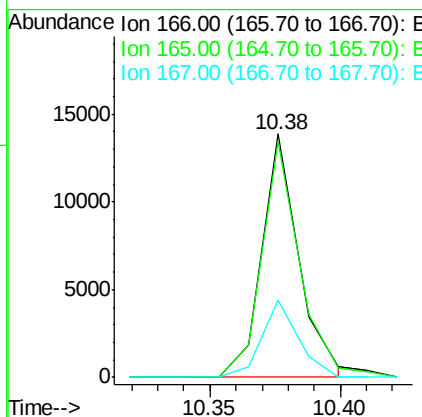
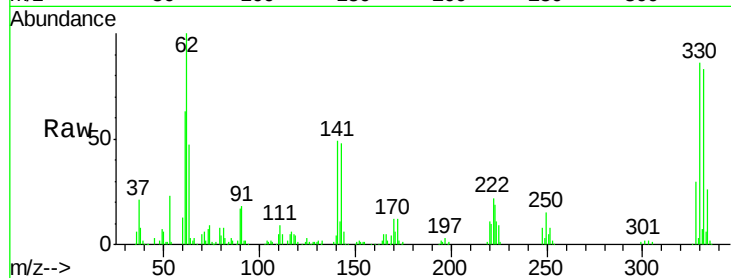
Time--> 9.78 9.80 9.82 9.84



#57
 Fluorene
 Concen: 748.80 ng
 RT: 10.38 min Scan# 769
 Delta R.T. 0.18 min
 Lab File: BF087230.D
 Acq: 20 May 2016 17:59

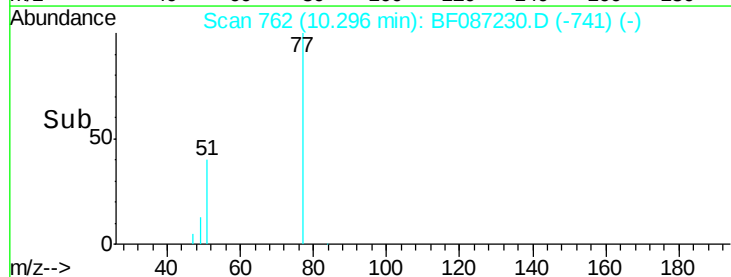
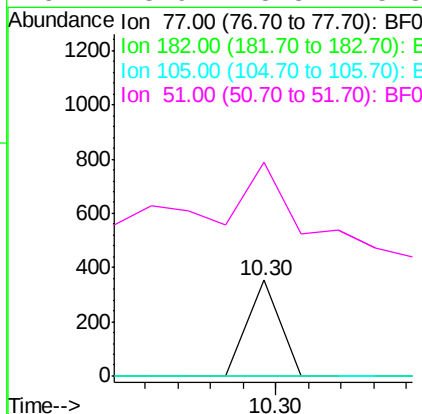
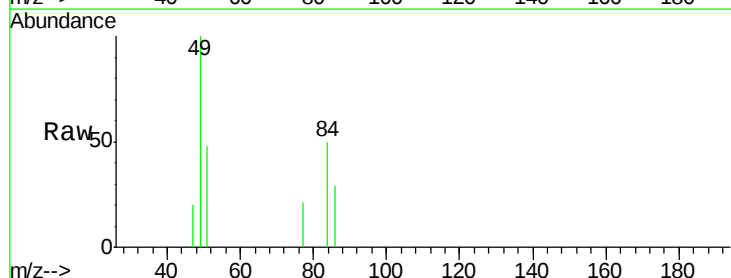
Instrument :
 BNA_F
 ClientSampleId :
 PB90703BL

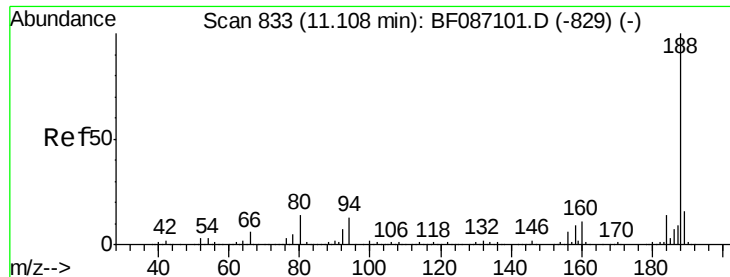
Tgt Ion: 166 Resp: 13606
 Ion Ratio Lower Upper
 166 100
 165 96.7 79.0 118.6
 167 31.5 10.6 15.8#



#62
 Azobenzene
 Concen: 9.97 ng
 RT: 10.30 min Scan# 762
 Delta R.T. -0.06 min
 Lab File: BF087230.D
 Acq: 20 May 2016 17:59

Tgt Ion: 77 Resp: 241
 Ion Ratio Lower Upper
 77 100
 182 0.0 0.0 38.8
 105 0.0 3.2 43.2#
 51 223.9 8.8 48.8#

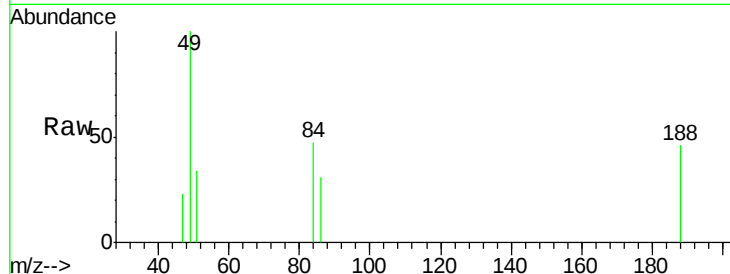




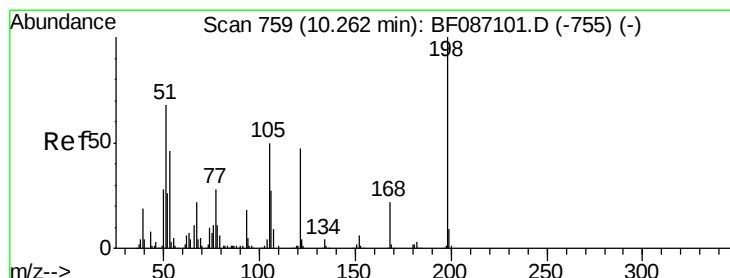
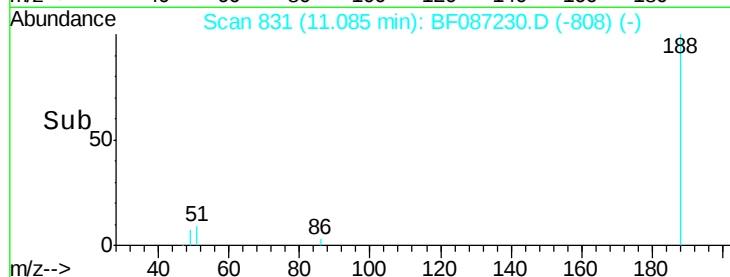
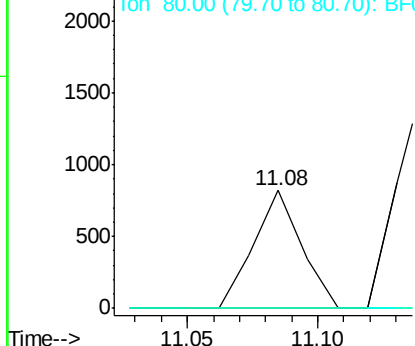
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.08 min Scan# 831
 Delta R.T. -0.03 min
 Lab File: BF087230.D
 Acq: 20 May 2016 17:59

Instrument :
 BNA_F
 ClientSampleId :
 PB90703BL

Tgt Ion:188 Resp: 1052
 Ion Ratio Lower Upper
 188 100
 94 0.0 6.8 10.2#
 80 0.0 7.1 10.7#

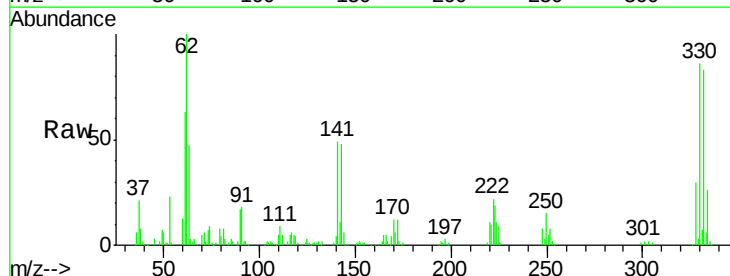


Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF0
 Ion 80.00 (79.70 to 80.70): BF0

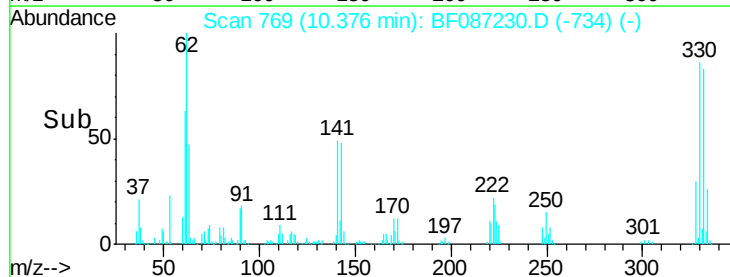
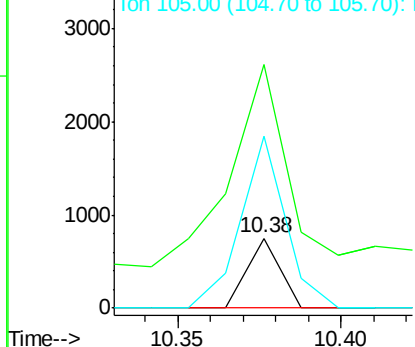


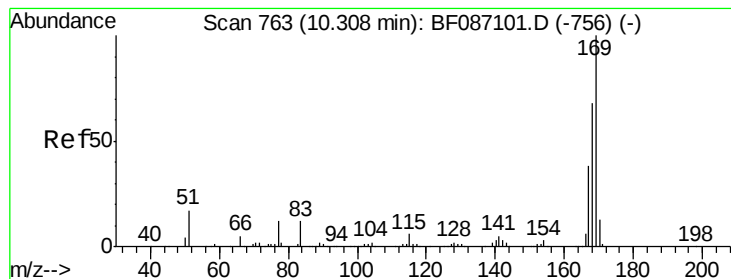
#64
 4,6-Dinitro-2-methylphenol
 Concen: 74.04 ng
 RT: 10.38 min Scan# 769
 Delta R.T. 0.10 min
 Lab File: BF087230.D
 Acq: 20 May 2016 17:59

Tgt Ion:198 Resp: 513
 Ion Ratio Lower Upper
 198 100
 51 349.3 20.5 60.5#
 105 246.7 24.5 64.5#



Abundance Ion 198.00 (197.70 to 198.70): E
 Ion 51.00 (50.70 to 51.70): BF0
 Ion 105.00 (104.70 to 105.70): E





#65

n-Nitrosodiphenylamine

Concen: 10.93 ng

RT: 10.26 min Scan# 759

Delta R.T. -0.06 min

Lab File: BF087230.D

Acq: 20 May 2016 17:59

Instrument :

BNA_F

ClientSampleId :

PB90703BL

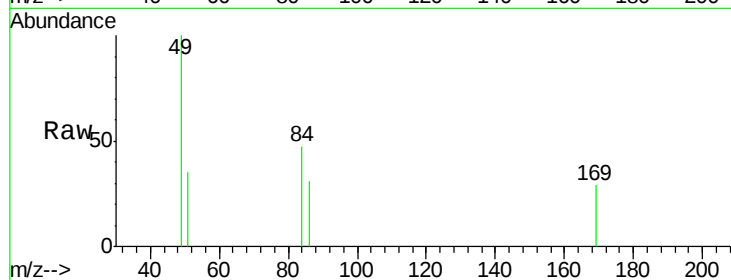
Tgt Ion:169 Resp: 362

Ion Ratio Lower Upper

169 100

168 0.0 53.8 80.6#

167 0.0 29.5 44.3#



Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E

10.26

600

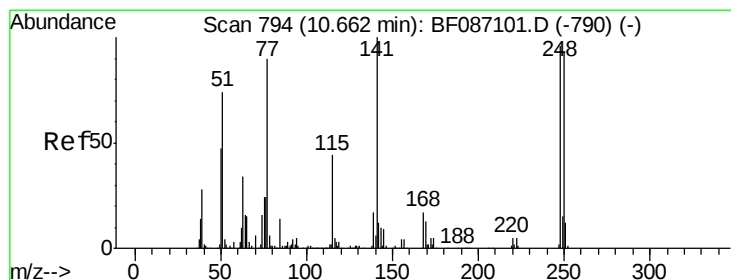
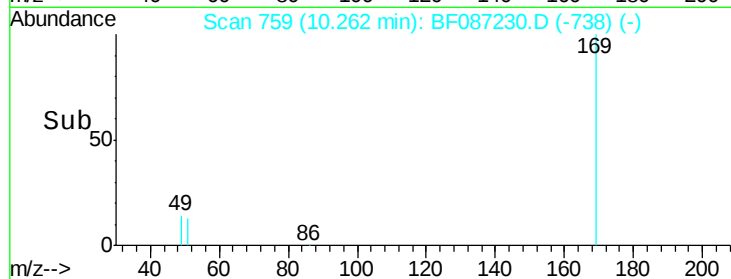
400

200

0

10.25

Time-->



#66

4-Bromophenyl-phenylether

Concen: 1903.20 ng

RT: 10.38 min Scan# 769

Delta R.T. -0.30 min

Lab File: BF087230.D

Acq: 20 May 2016 17:59

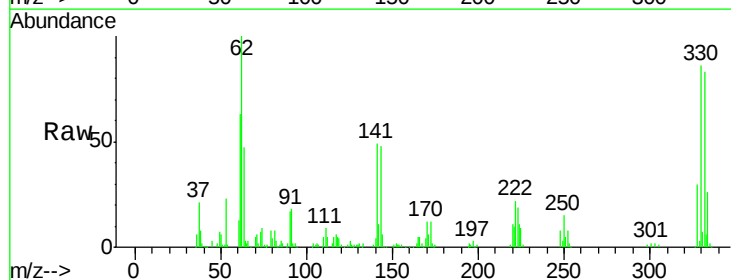
Tgt Ion:248 Resp: 20589

Ion Ratio Lower Upper

248 100

250 194.8 78.6 117.8#

141 646.8 76.0 114.0#



Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

10.38

150000

100000

50000

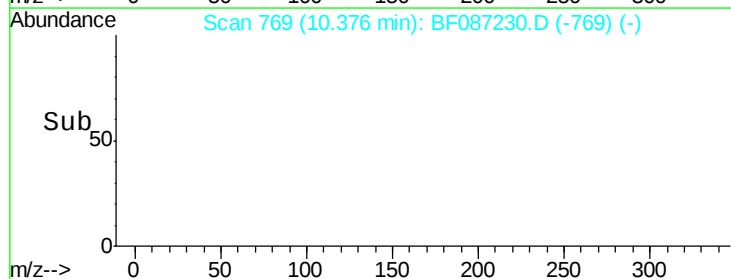
0

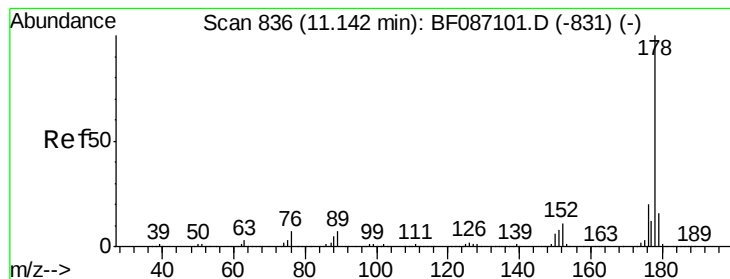
10.35

10.40

10.45

Time-->





#70

Phenanthrene

Concen: 6.68 ng

RT: 11.11 min Scan# 833

Delta R.T. -0.05 min

Lab File: BF087230.D

Acq: 20 May 2016 17:59

Instrument :

BNA_F

ClientSampleId :

PB90703BL

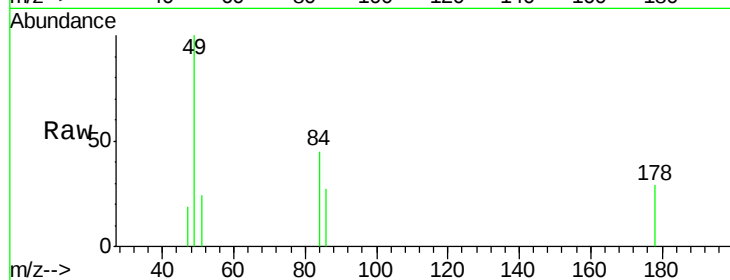
Tgt Ion:178 Resp: 381

Ion Ratio Lower Upper

178 100

176 0.0 16.0 24.0#

179 0.0 12.6 18.8#

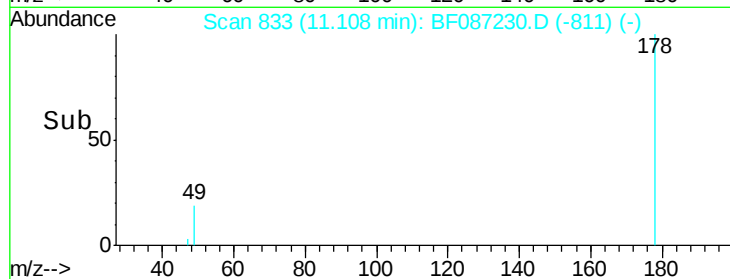


Abundance Ion 178.00 (177.70 to 178.70): E

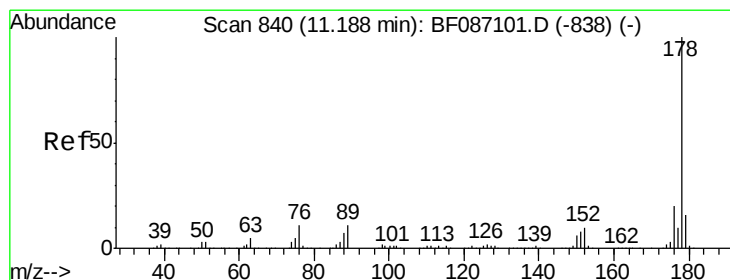
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

Time-->



Time-->



#71

Anthracene

Concen: 6.60 ng

RT: 11.11 min Scan# 833

Delta R.T. -0.09 min

Lab File: BF087230.D

Acq: 20 May 2016 17:59

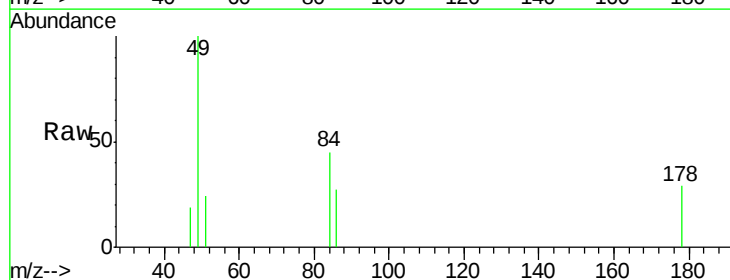
Tgt Ion:178 Resp: 381

Ion Ratio Lower Upper

178 100

176 0.0 15.6 23.4#

179 0.0 12.7 19.1#

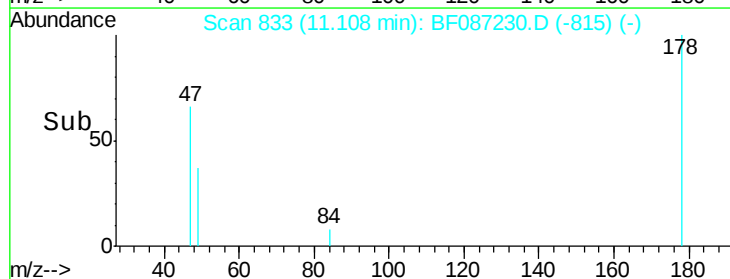


Abundance Ion 178.00 (177.70 to 178.70): E

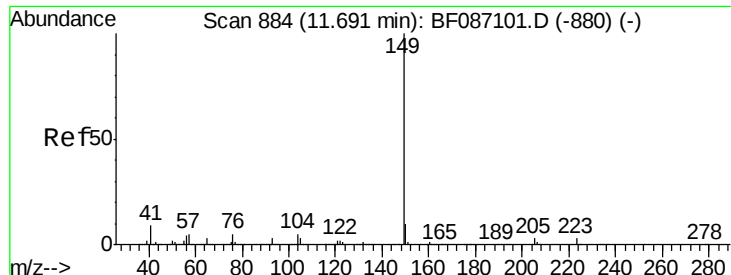
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

Time-->



Time-->



#73

Di-n-butylphthalate

Concen: 25.71 ng

RT: 11.64 min Scan# 880

Delta R.T. -0.06 min

Lab File: BF087230.D

Acq: 20 May 2016 17:59

Instrument :

BNA_F

ClientSampleId :

PB90703BL

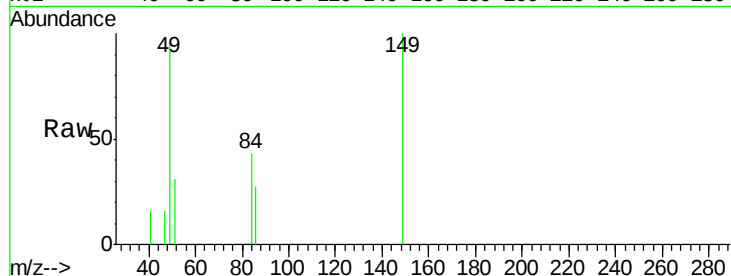
Tgt Ion:149 Resp: 1557

Ion Ratio Lower Upper

149 100

150 0.0 7.6 11.4#

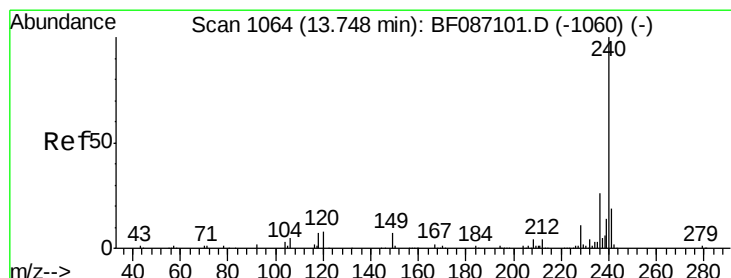
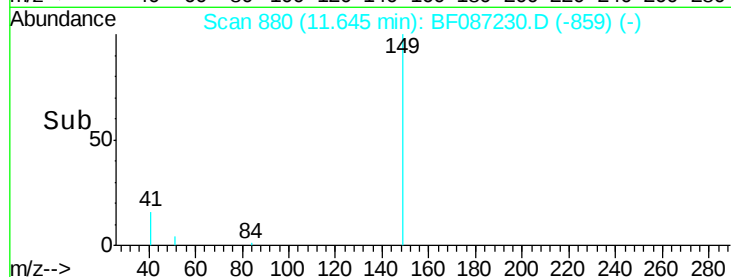
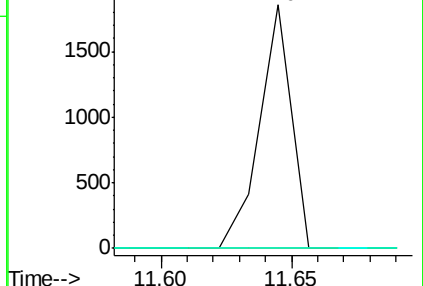
104 0.0 3.8 5.6#



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



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.71 min Scan# 1061

Delta R.T. -0.05 min

Lab File: BF087230.D

Acq: 20 May 2016 17:59

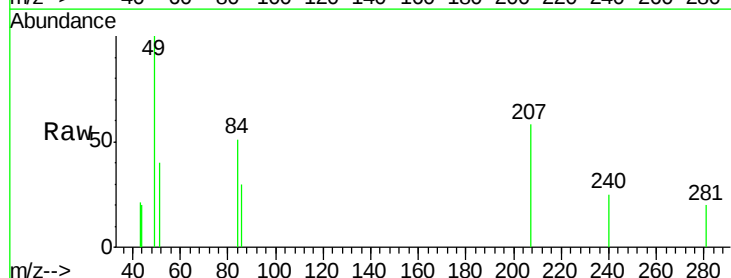
Tgt Ion:240 Resp: 283

Ion Ratio Lower Upper

240 100

120 0.0 11.2 16.8#

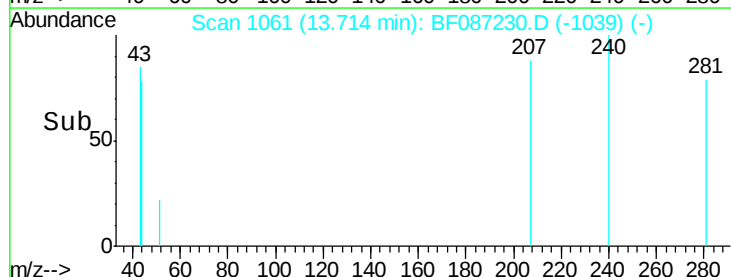
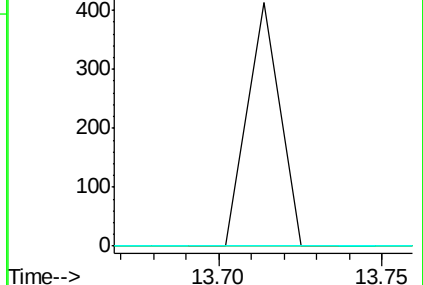
236 0.0 21.2 31.8#

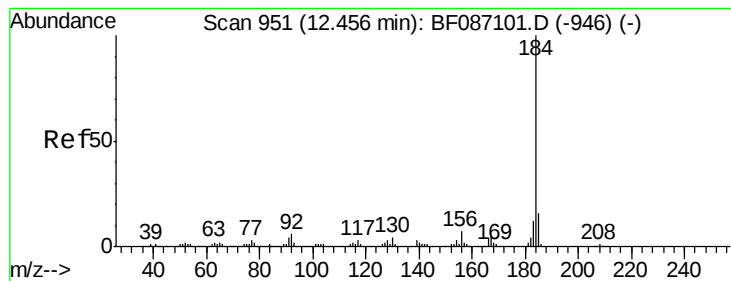


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#76

Benzidine

Concen: Below Cal

RT: 12.65 min Scan# 968

Delta R.T. 0.18 min

Lab File: BF087230.D

Acq: 20 May 2016 17:59

Instrument :

BNA_F

ClientSampled :

PB90703BL

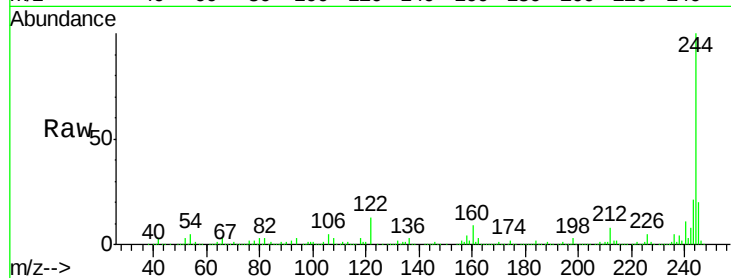
Tgt Ion:184 Resp: 20669

Ion Ratio Lower Upper

184 100

185 18.1 13.6 20.4

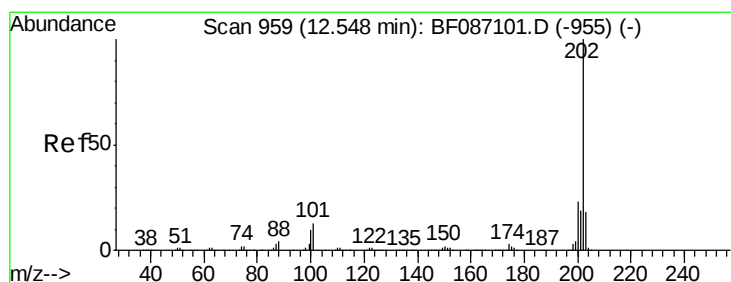
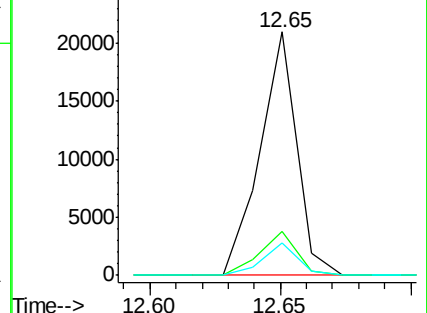
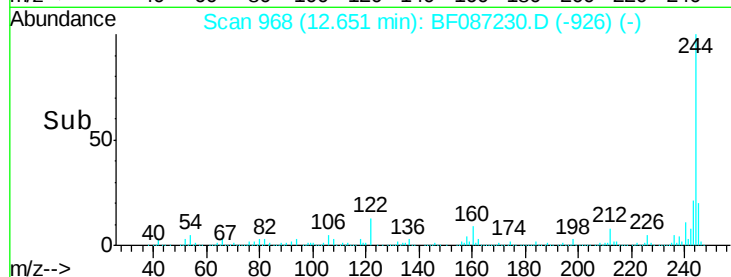
183 13.3 9.8 14.6



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#77

Pyrene

Concen: 247.30 ng

RT: 12.65 min Scan# 968

Delta R.T. 0.09 min

Lab File: BF087230.D

Acq: 20 May 2016 17:59

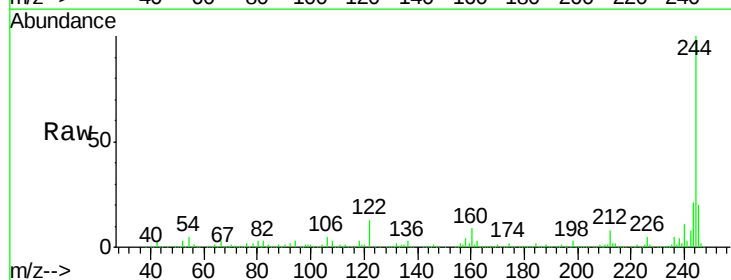
Tgt Ion:202 Resp: 5056

Ion Ratio Lower Upper

202 100

200 47.7 17.7 26.5#

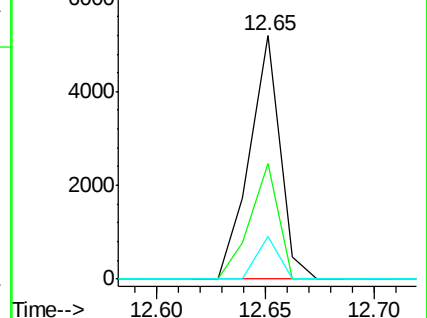
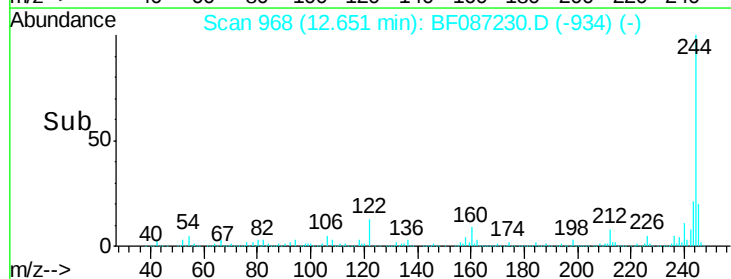
203 17.5 14.2 21.4

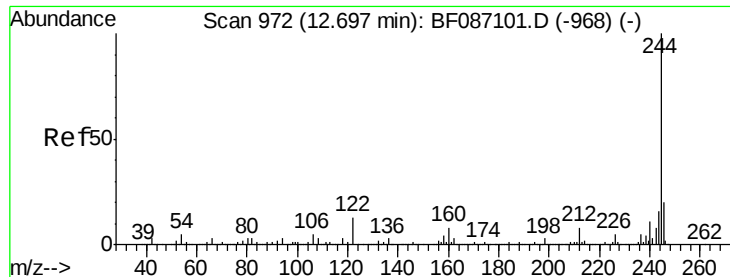


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 108326.45 ng

RT: 12.65 min Scan# 968

Delta R.T. -0.06 min

Lab File: BF087230.D

Acq: 20 May 2016 17:59

Instrument :

BNA_F

ClientSampleId :

PB90703BL

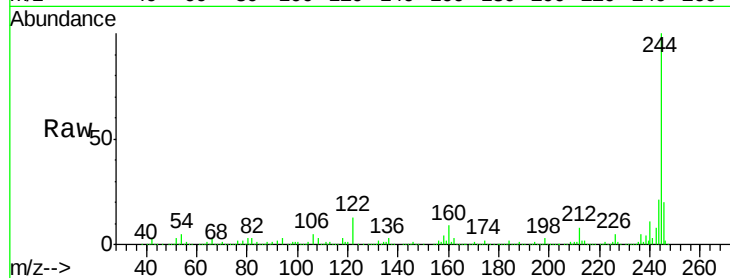
Tgt Ion: 244 Resp: 1355221

Ion Ratio Lower Upper

244 100

212 7.8 6.2 9.2

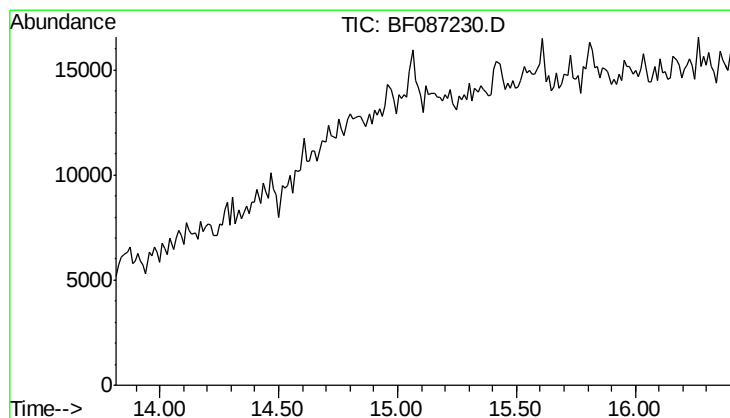
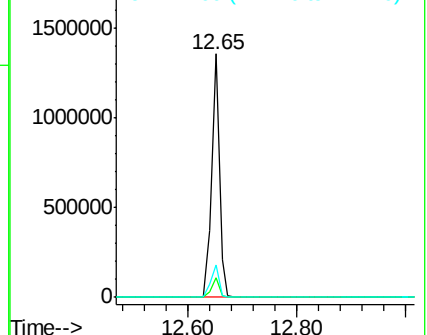
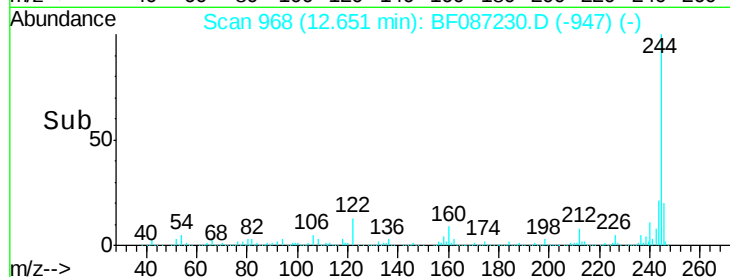
122 13.2 12.0 18.0



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



#86

Perylene-d12

Concen: 0.00 ng

Expected RT: 15.11 min

Lab File: BF087230.D

Acq: 20 May 2016 17:59

Tgt Ion: 264

Sig Exp Ratio

264 100

260 24.4

265 21.6

