

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051416\
 Data File : BF087068.D
 Acq On : 15 May 2016 14:30
 Operator : UM/SJ
 Sample : H2968-07 2X
 Misc :
 ALS Vial : 87 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 DUPB

Quant Time: May 16 04:57:46 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 13 14:55:23 2016
 Response via : Initial Calibration

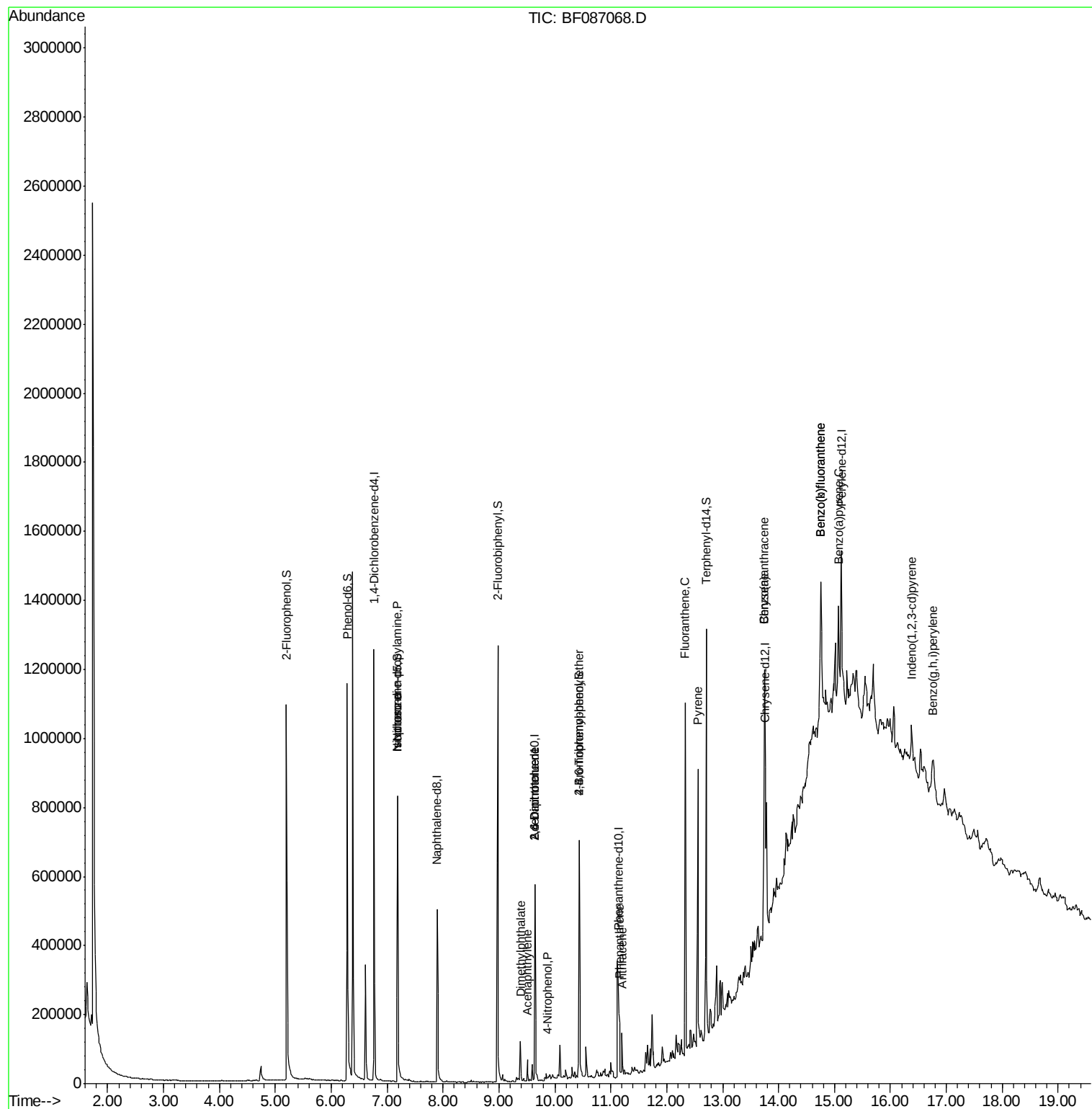
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.76	152	166901	20.00	ng	0.07
21) Naphthalene-d8	7.90	136	263173	20.00	ng	-0.09
38) Acenaphthene-d10	9.64	164	109422	20.00	ng	-0.09
63) Phenanthrene-d10	11.13	188	177696	20.00	ng	-0.08
75) Chrysene-d12	13.76	240	176513	20.00	ng	-0.08
86) Perylene-d12	15.12	264	164877	20.00	ng	-0.09
System Monitoring Compounds						
5) 2-Fluorophenol	5.20	112	350667	35.58	ng	-0.09
7) Phenol-d6	6.28	99	444639	33.76	ng	-0.08
23) Nitrobenzene-d5	7.19	82	288578	55.06	ng	-0.08
41) 2,4,6-Tribromophenol	10.43	330	75111	64.84	ng	-0.09
44) 2-Fluorobiphenyl	8.98	172	468256	71.92	ng	-0.08
78) Terphenyl-d14	12.71	244	336314	40.43	ng	-0.09
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	7.19	70	39274	4.27	ng	# 76
25) Isophorone	7.19	82	288574	29.68	ng	# 68
48) Acenaphthylene	9.51	152	27957	2.79	ng	98
49) Dimethylphthalate	9.38	163	39389	4.72	ng	100
50) 2,6-Dinitrotoluene	9.64	165	13703	7.80	ng	# 20
55) 4-Nitrophenol	9.86	139	1376	5.61	ng	# 14
56) 2,4-Dinitrotoluene	9.64	165	13704	6.30	ng	# 15
66) 4-Bromophenyl-phenylether	10.43	248	4619	2.56	ng	# 1
70) Phenanthrene	11.15	178	90766	9.57	ng	98
71) Anthracene	11.20	178	53378	5.50	ng	99
74) Fluoranthene	12.33	202	373133	38.26	ng	96
77) Pyrene	12.56	202	327382	24.23	ng	99
80) Benzo(a)anthracene	13.75	228	255231	25.76	ng	# 90
82) Chrysene	13.75	228	255231	25.32	ng	# 91
85) Indeno(1,2,3-cd)pyrene	16.38	276	66970	7.99	ng	# 89
87) Benzo(b)fluoranthene	14.75	252	285479	26.64	ng	98
88) Benzo(k)fluoranthene	14.75	252	285479	32.54	ng	97
89) Benzo(a)pyrene	15.07	252	138138	14.95	ng	# 92
91) Benzo(g,h,i)perylene	16.75	276	54859	6.93	ng	# 94

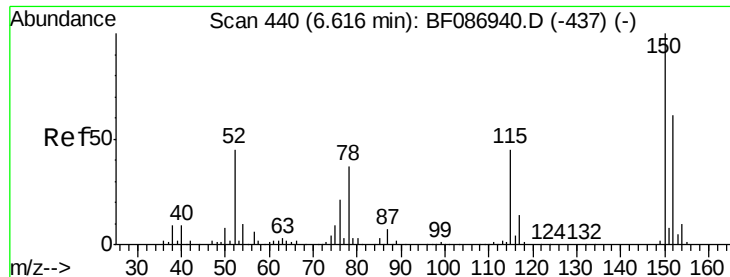
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.76 min Scan# 453

Delta R.T. 0.07 min

Lab File: BF087068.D

Acq: 15 May 2016 14:30

Instrument :

BNA_F

ClientSampleId :

DUPB

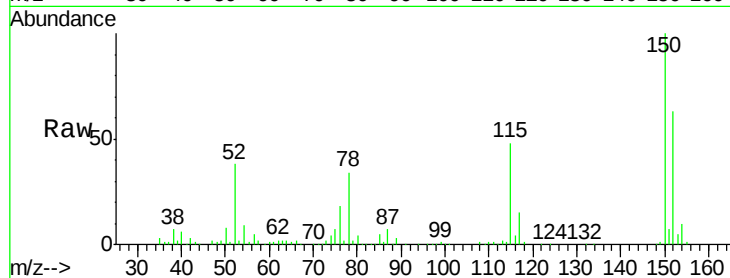
Tgt Ion:152 Resp: 166901

Ion Ratio Lower Upper

152 100

150 158.0 125.8 188.6

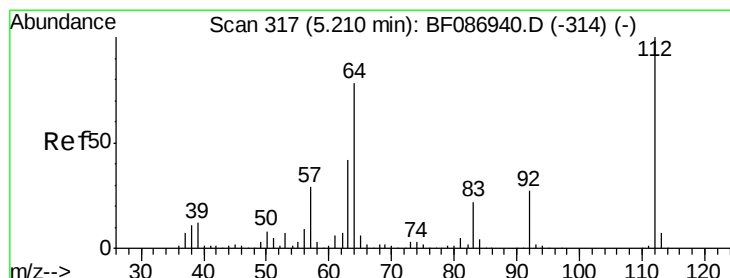
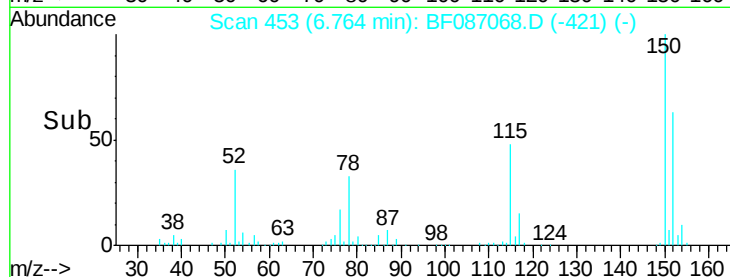
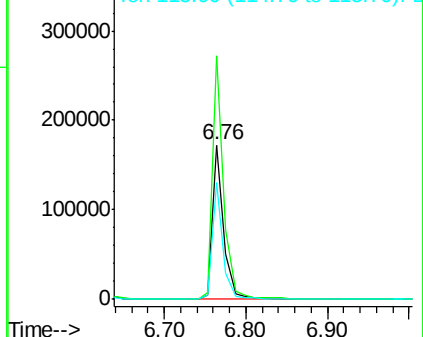
115 75.9 51.5 77.3



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: 35.58 ng

RT: 5.20 min Scan# 316

Delta R.T. -0.09 min

Lab File: BF087068.D

Acq: 15 May 2016 14:30

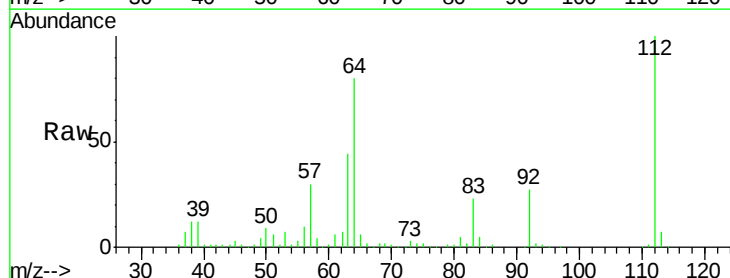
Tgt Ion:112 Resp: 350667

Ion Ratio Lower Upper

112 100

64 80.4 52.1 78.1#

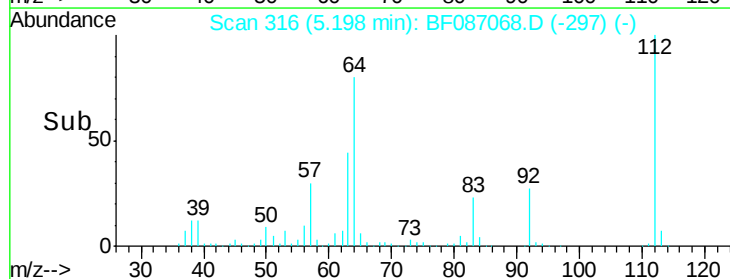
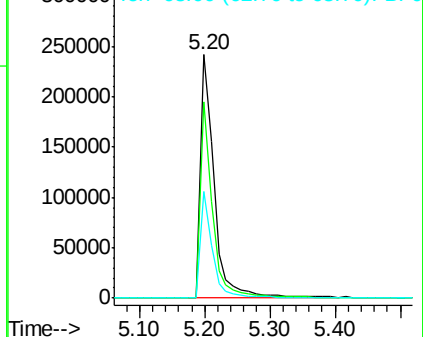
63 43.7 25.7 38.5#



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: 33.76 ng

RT: 6.28 min Scan# 411

Delta R.T. -0.08 min

Lab File: BF087068.D

Acq: 15 May 2016 14:30

Instrument :

BNA_F

ClientSampleId :

DUPB

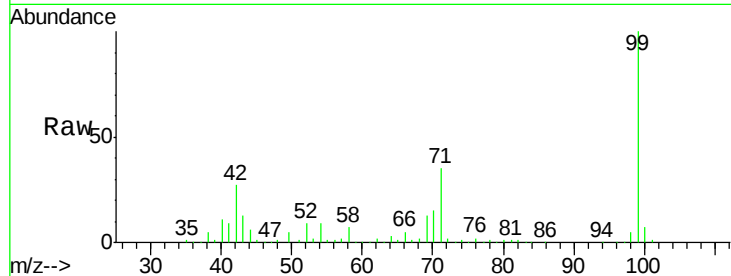
Tgt Ion: 99 Resp: 444639

Ion Ratio Lower Upper

99 100

42 26.6 13.6 20.4#

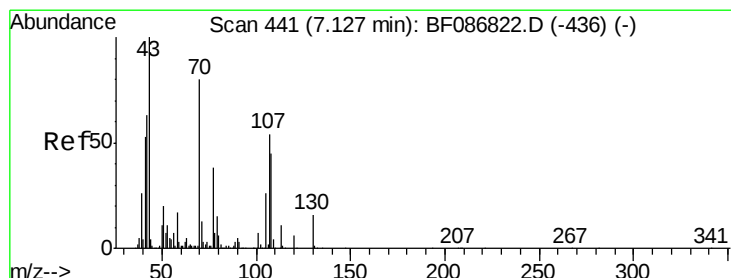
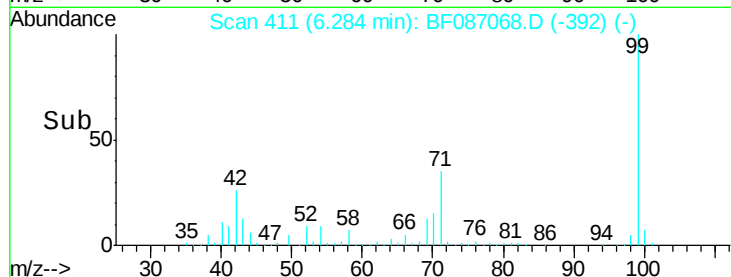
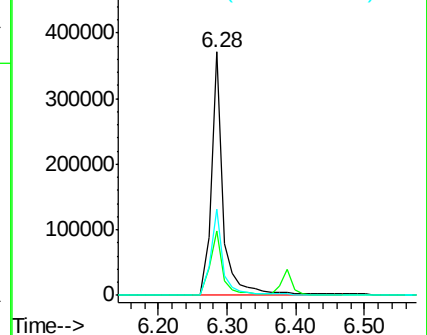
71 35.4 24.6 36.8



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



#19

n-Nitroso-di-n-propylamine

Concen: 4.27 ng

RT: 7.19 min Scan# 490

Delta R.T. 0.06 min

Lab File: BF087068.D

Acq: 15 May 2016 14:30

Tgt Ion: 70 Resp: 39274

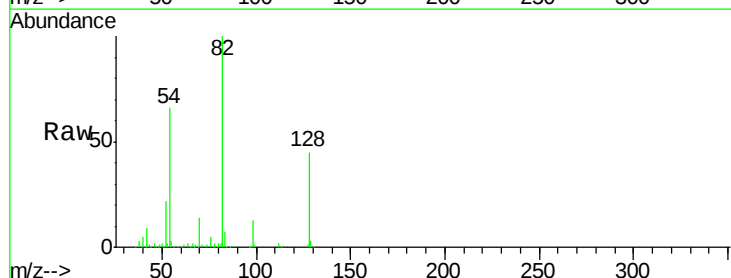
Ion Ratio Lower Upper

70 100

42 64.1 43.1 64.7

101 0.0 8.1 12.1#

130 2.1 18.6 28.0#

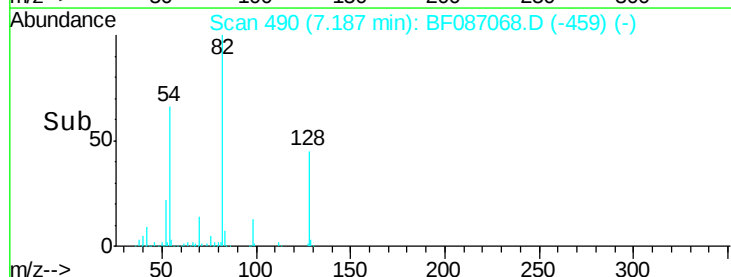
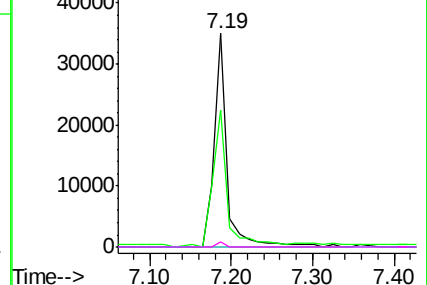


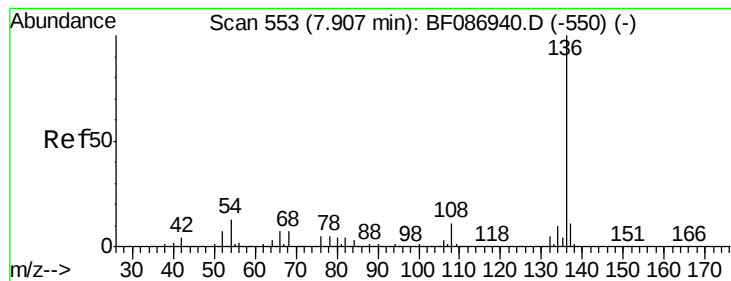
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.90 min Scan# 552

Delta R.T. -0.09 min

Lab File: BF087068.D

Acq: 15 May 2016 14:30

Instrument :

BNA_F

ClientSampleId :

DUPB

Tgt Ion: 136 Resp: 263173

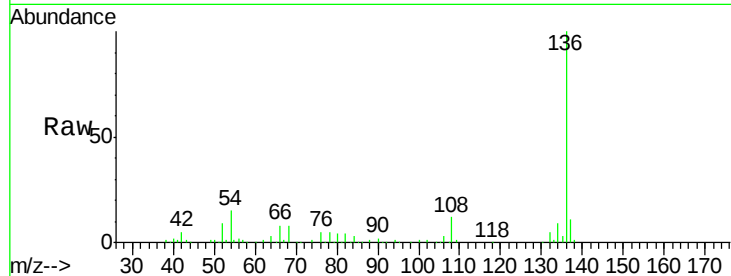
Ion Ratio Lower Upper

136 100

137 11.3 8.8 13.2

54 15.3 5.0 7.4#

68 7.7 4.4 6.6#

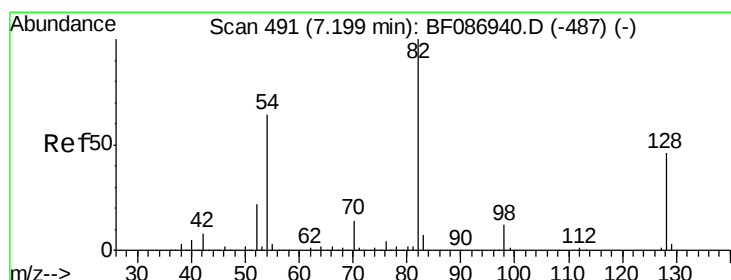
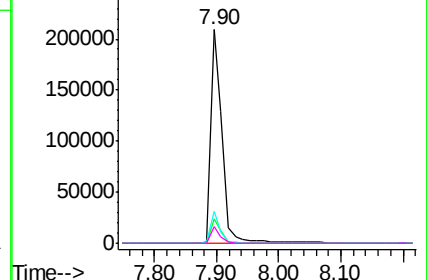
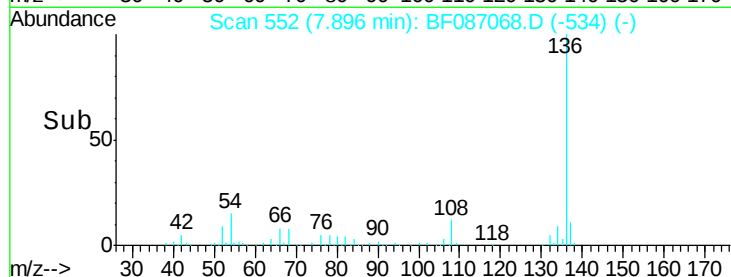


Abundance Ion 136.00 (135.70 to 136.70): E

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: 55.06 ng

RT: 7.19 min Scan# 490

Delta R.T. -0.08 min

Lab File: BF087068.D

Acq: 15 May 2016 14:30

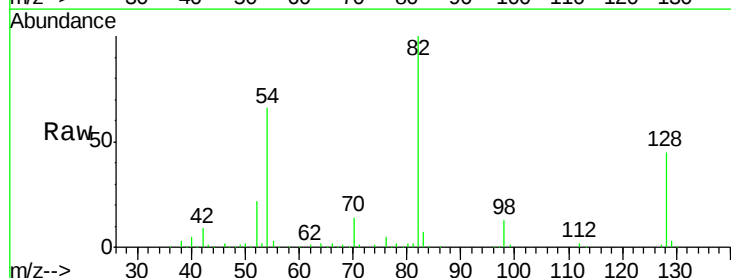
Tgt Ion: 82 Resp: 288578

Ion Ratio Lower Upper

82 100

128 45.3 40.6 61.0

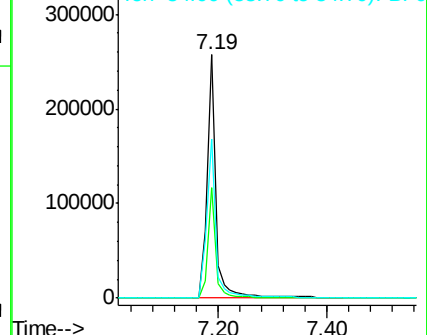
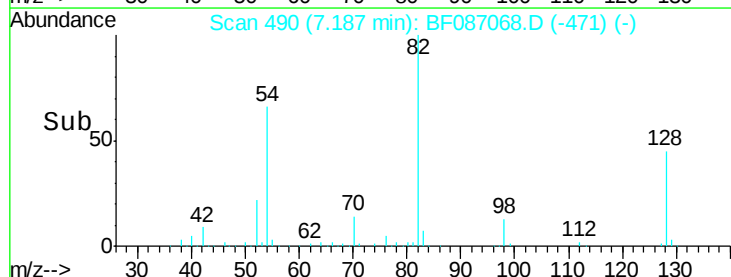
54 65.5 38.1 57.1#

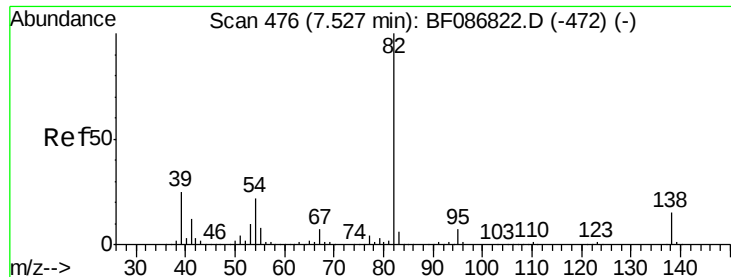


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 29.68 ng

RT: 7.19 min Scan# 490

Delta R.T. -0.34 min

Lab File: BF087068.D

Acq: 15 May 2016 14:30

Instrument :

BNA_F

ClientSampleId :

DUPB

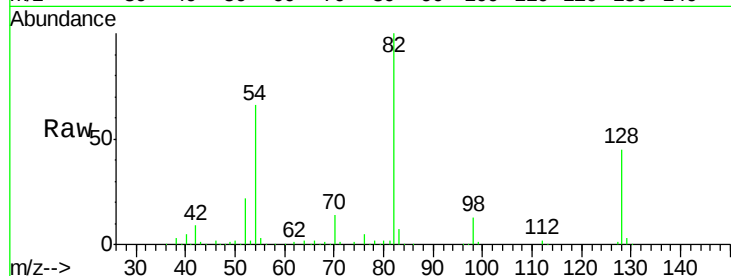
Tgt Ion: 82 Resp: 288574

Ion Ratio Lower Upper

82 100

95 0.0 5.1 7.7#

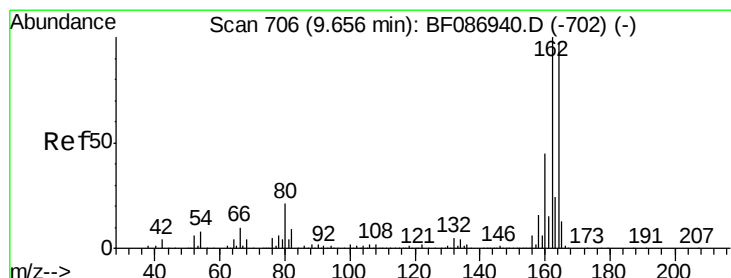
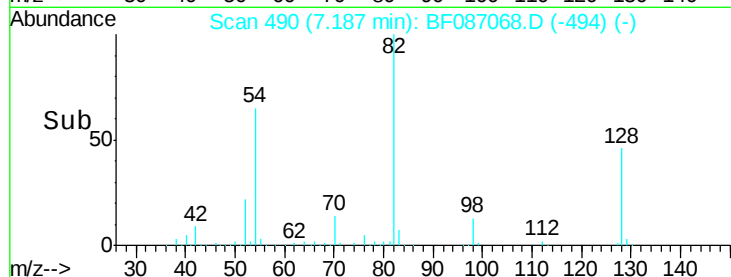
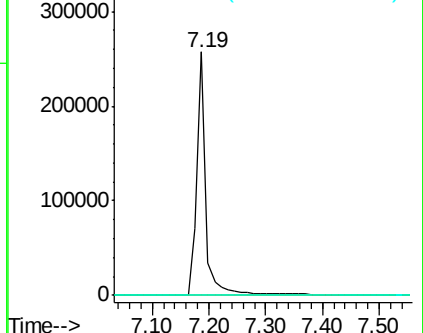
138 0.0 12.4 18.6#



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.64 min Scan# 705

Delta R.T. -0.09 min

Lab File: BF087068.D

Acq: 15 May 2016 14:30

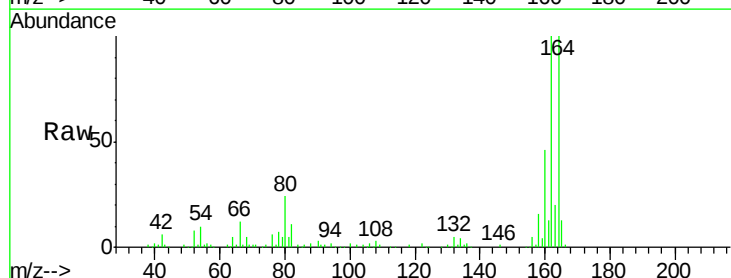
Tgt Ion: 164 Resp: 109422

Ion Ratio Lower Upper

164 100

162 100.0 82.8 124.2

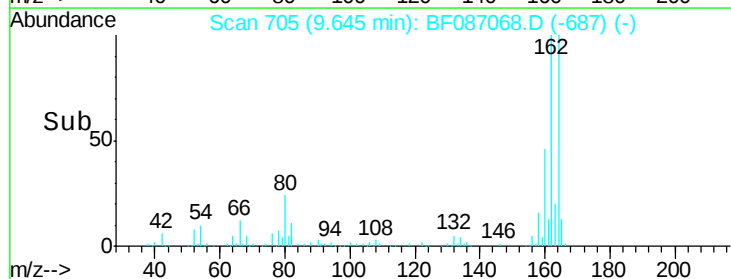
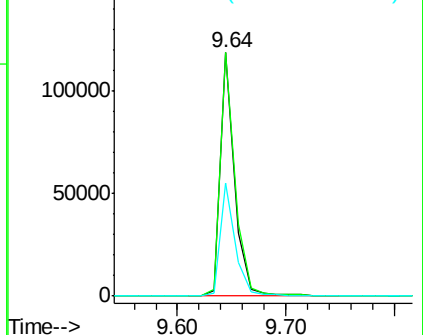
160 46.3 36.9 55.3

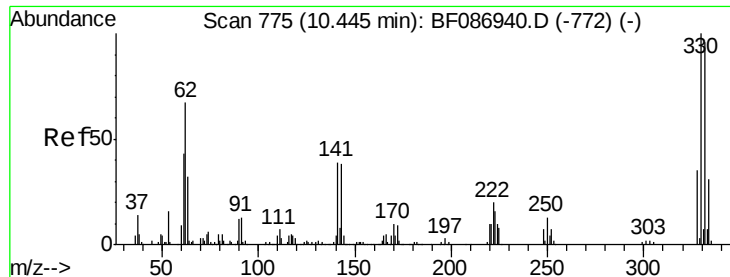


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

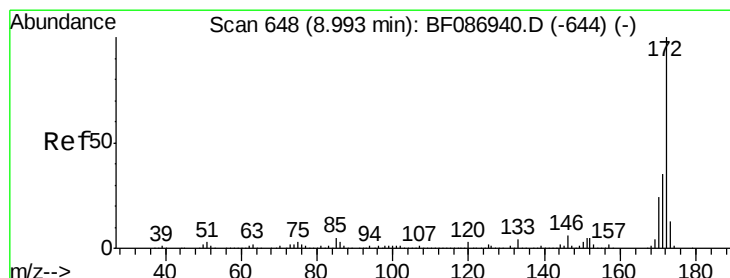
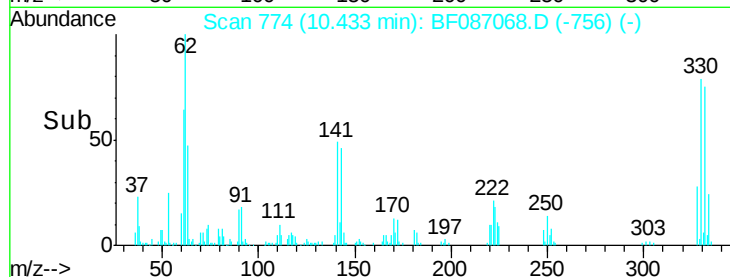
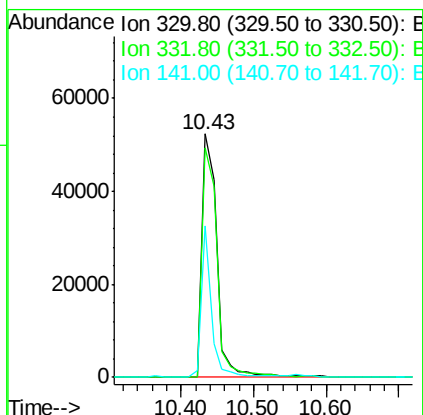
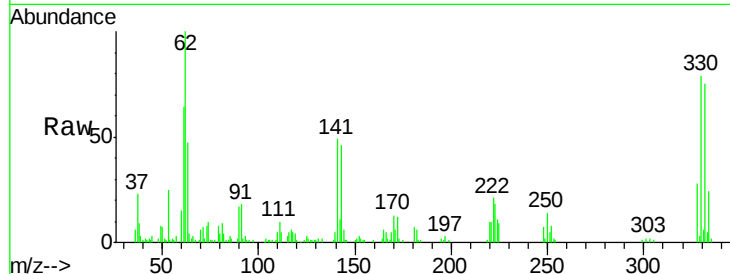




#41
 2,4,6-Tribromophenol
 Concen: 64.84 ng
 RT: 10.43 min Scan# 774
 Delta R.T. -0.09 min
 Lab File: BF087068.D
 Acq: 15 May 2016 14:30

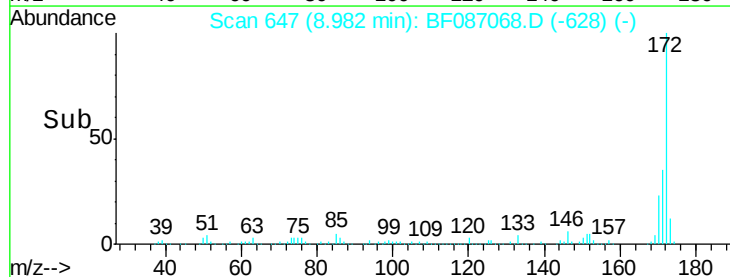
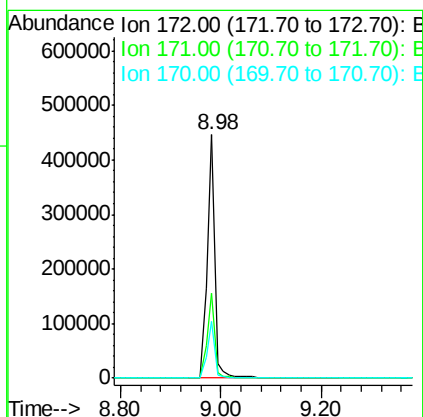
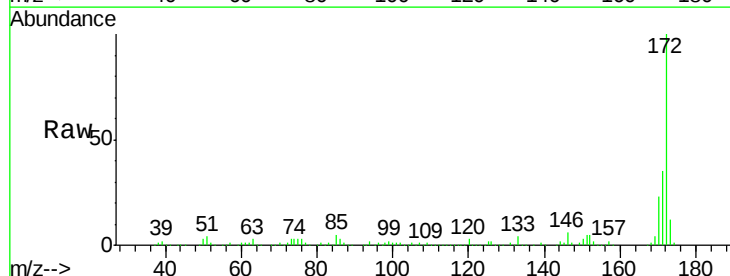
Instrument :
 BNA_F
 ClientSampleId :
 DUPB

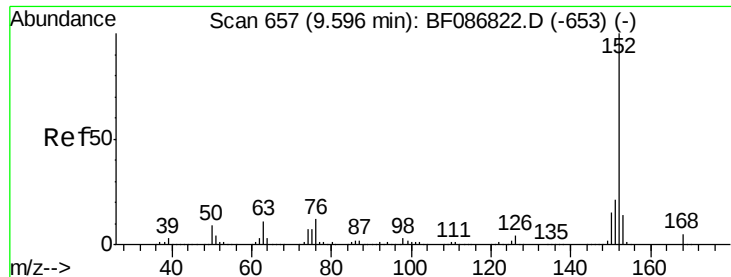
Tgt Ion: 330 Resp: 75111
 Ion Ratio Lower Upper
 330 100
 332 94.5 79.0 118.4
 141 42.6 31.2 46.8



#44
 2-Fluorobiphenyl
 Concen: 71.92 ng
 RT: 8.98 min Scan# 647
 Delta R.T. -0.08 min
 Lab File: BF087068.D
 Acq: 15 May 2016 14:30

Tgt Ion: 172 Resp: 468256
 Ion Ratio Lower Upper
 172 100
 171 34.8 29.0 43.6
 170 23.4 19.8 29.8





#48

Acenaphthylene

Concen: 2.79 ng

RT: 9.51 min Scan# 693

Delta R.T. -0.09 min

Lab File: BF087068.D

Acq: 15 May 2016 14:30

Instrument :

BNA_F

ClientSampleId :

DUPB

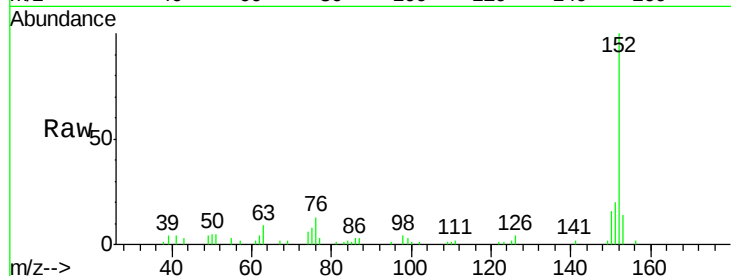
Tgt Ion:152 Resp: 27957

Ion Ratio Lower Upper

152 100

151 19.7 16.8 25.2

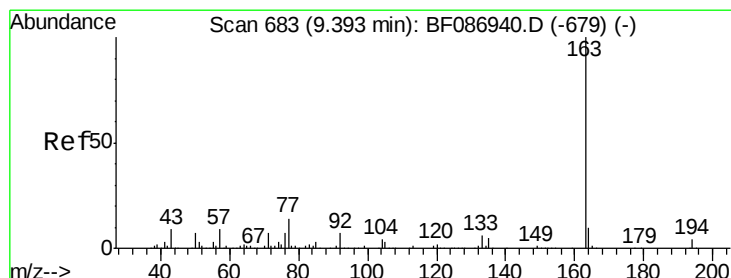
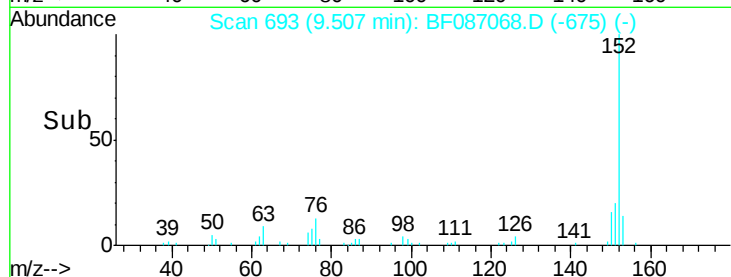
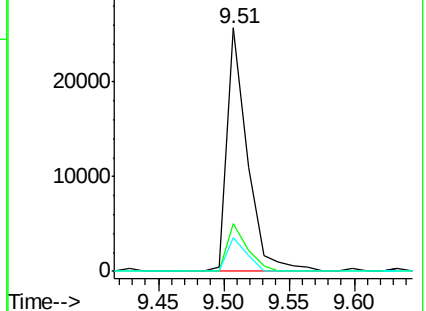
153 14.1 10.9 16.3



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



#49

Dimethylphthalate

Concen: 4.72 ng

RT: 9.38 min Scan# 682

Delta R.T. -0.09 min

Lab File: BF087068.D

Acq: 15 May 2016 14:30

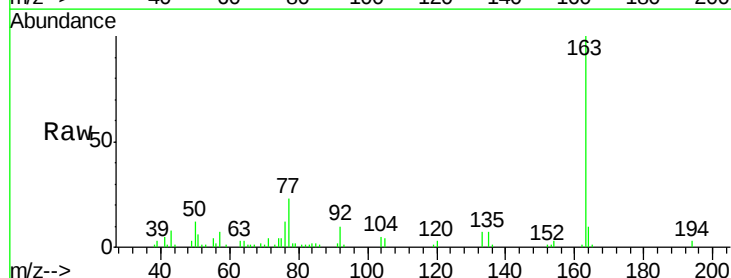
Tgt Ion:163 Resp: 39389

Ion Ratio Lower Upper

163 100

194 3.2 2.6 4.0

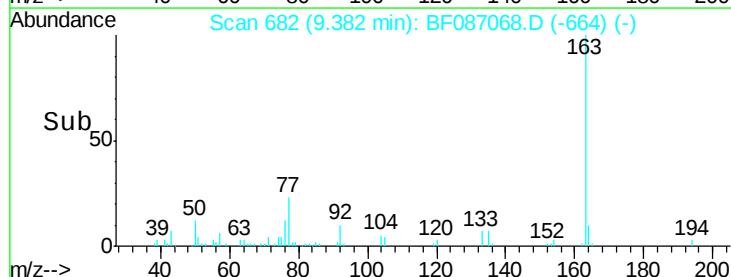
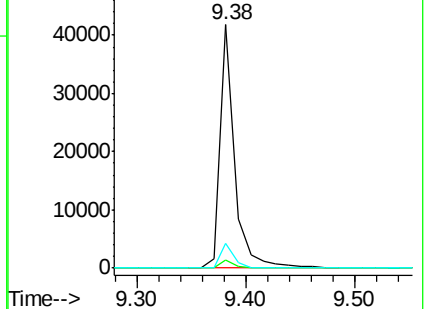
164 10.2 8.2 12.4

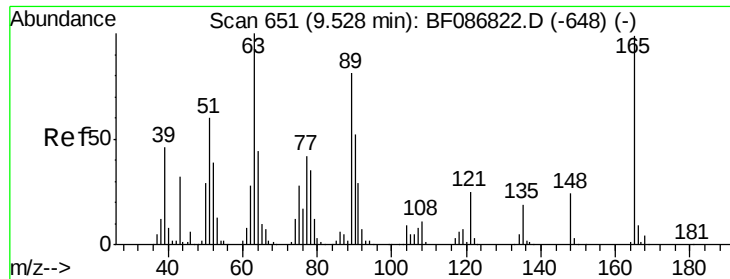


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#50

2,6-Dinitrotoluene

Concen: 7.80 ng

RT: 9.64 min Scan# 705

Delta R.T. 0.12 min

Lab File: BF087068.D

Acq: 15 May 2016 14:30

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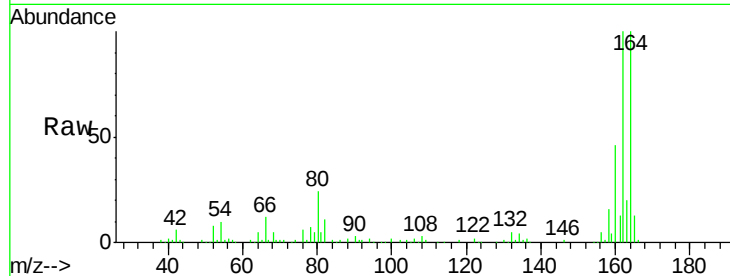
Tgt Ion:165 Resp: 13703

Ion Ratio Lower Upper

165 100

63 2.1 51.8 77.8#

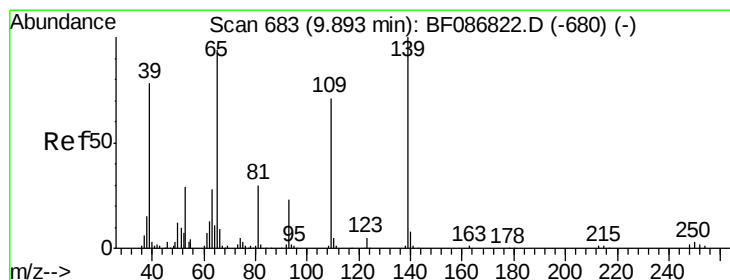
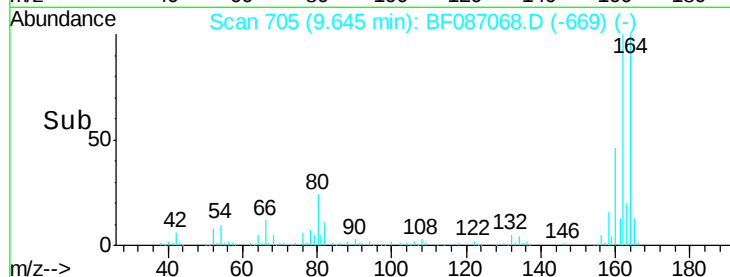
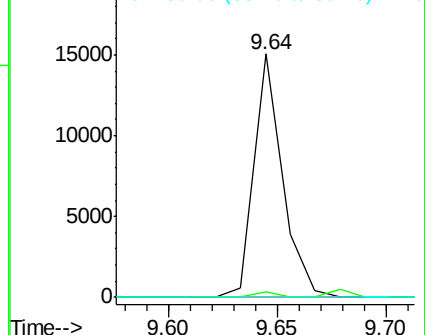
89 0.0 50.7 76.1#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0



#55

4-Nitrophenol

Concen: 5.61 ng

RT: 9.86 min Scan# 724

Delta R.T. -0.03 min

Lab File: BF087068.D

Acq: 15 May 2016 14:30

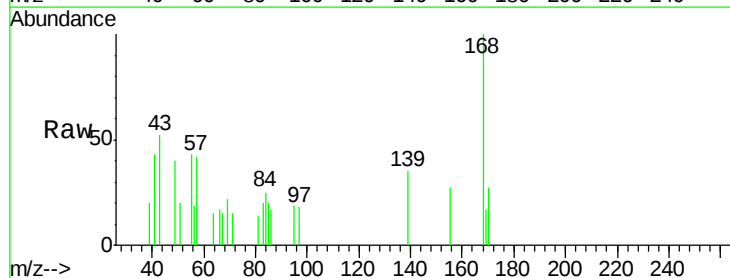
Tgt Ion:139 Resp: 1376

Ion Ratio Lower Upper

139 100

109 0.0 36.9 76.9#

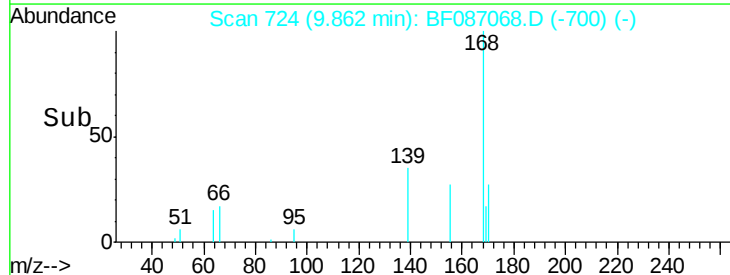
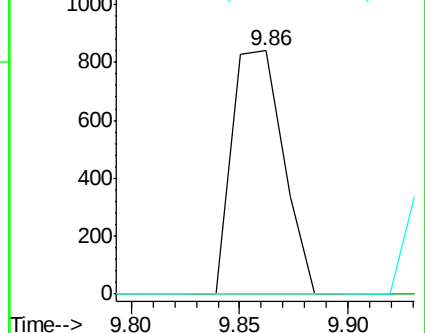
65 0.0 64.0 104.0#

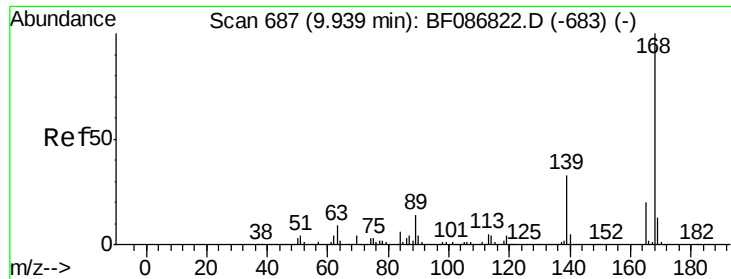


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0

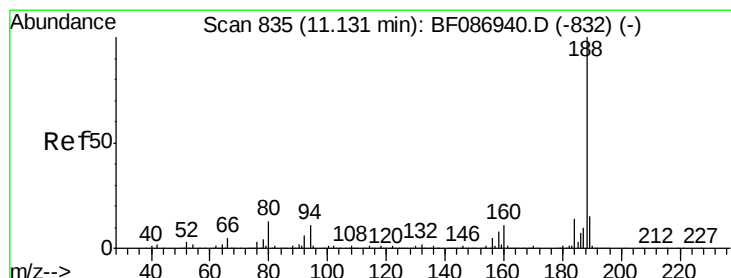
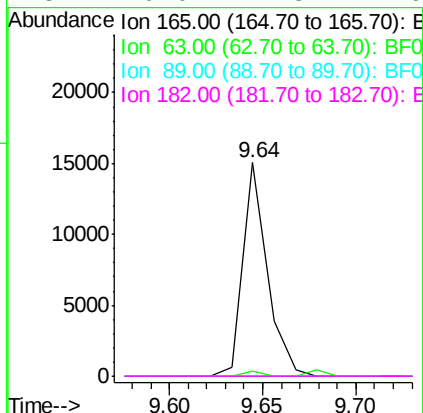
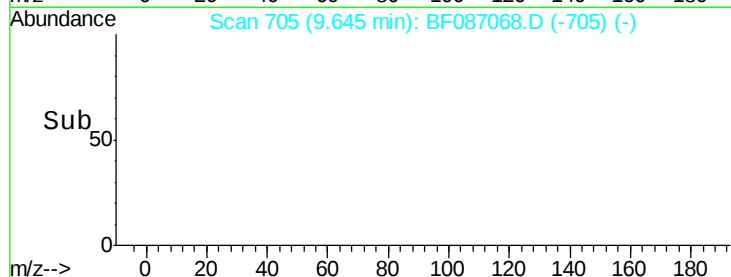
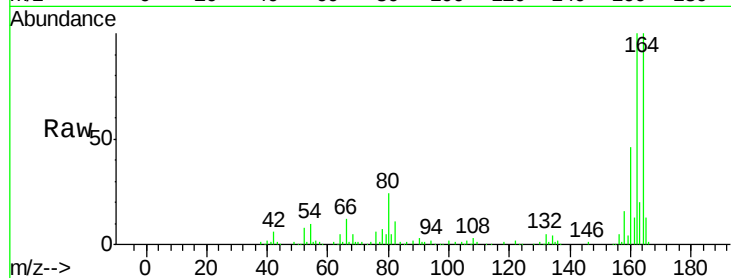




#56
 2,4-Dinitrotoluene
 Concen: 6.30 ng
 RT: 9.64 min Scan# 705
 Delta R.T. -0.29 min
 Lab File: BF087068.D
 Acq: 15 May 2016 14:30

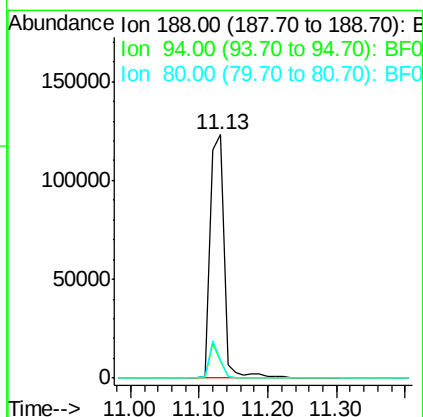
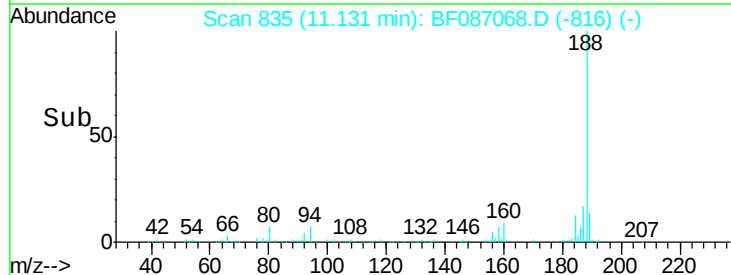
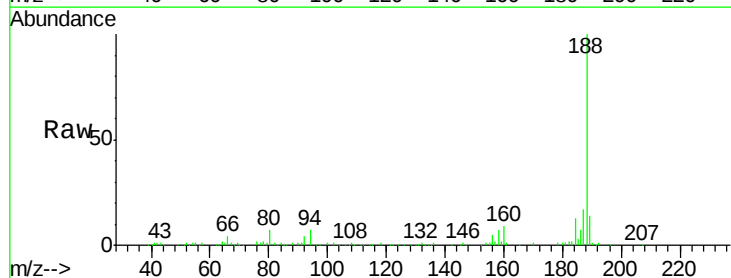
Instrument :
 BNA_F
 ClientSampleId :
 DUPB

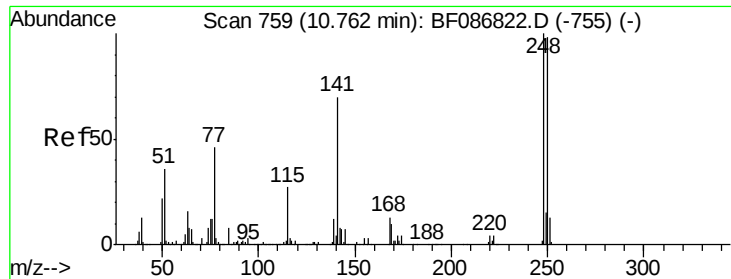
Tgt Ion:165 Resp: 13704
 Ion Ratio Lower Upper
 165 100
 63 2.1 44.3 66.5#
 89 0.0 70.0 105.0#
 182 0.0 1.8 2.6#



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.13 min Scan# 835
 Delta R.T. -0.08 min
 Lab File: BF087068.D
 Acq: 15 May 2016 14:30

Tgt Ion:188 Resp: 177696
 Ion Ratio Lower Upper
 188 100
 94 6.8 6.8 10.2
 80 7.5 7.1 10.7

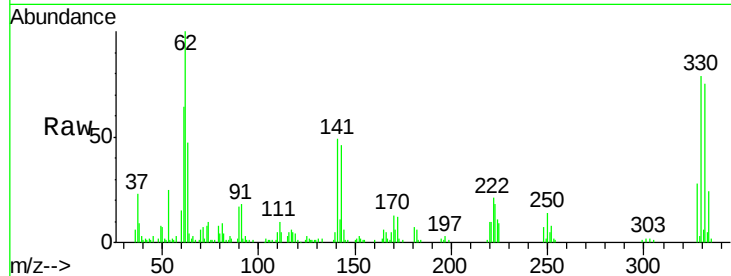




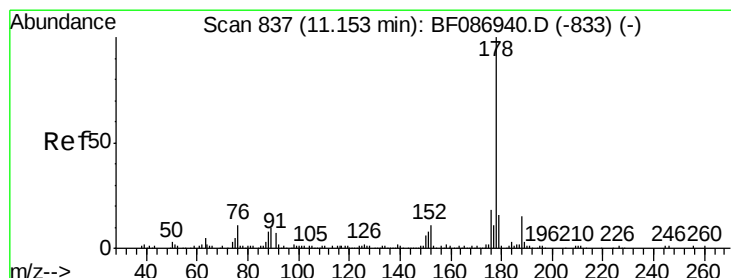
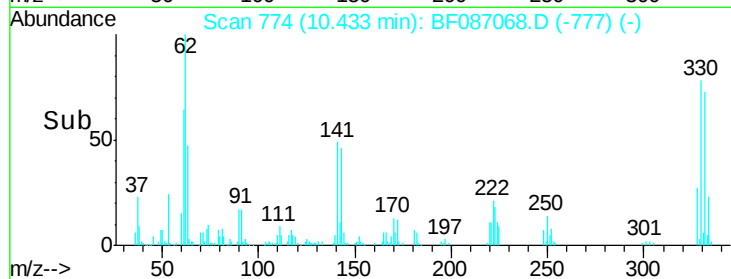
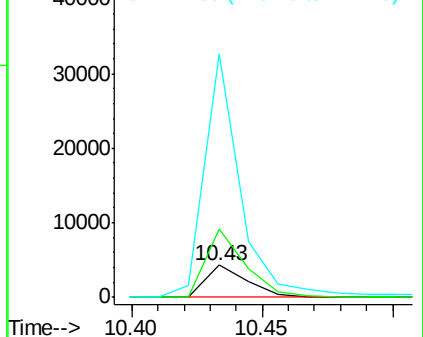
#66
 4-Bromophenyl-phenylether
 Concen: 2.56 ng
 RT: 10.43 min Scan# 774
 Delta R.T. -0.33 min
 Lab File: BF087068.D
 Acq: 15 May 2016 14:30

Instrument :
 BNA_F
 ClientSampleId :
 DUPB

Tgt Ion:248 Resp: 4619
 Ion Ratio Lower Upper
 248 100
 250 211.7 78.6 117.8#
 141 757.1 76.0 114.0#

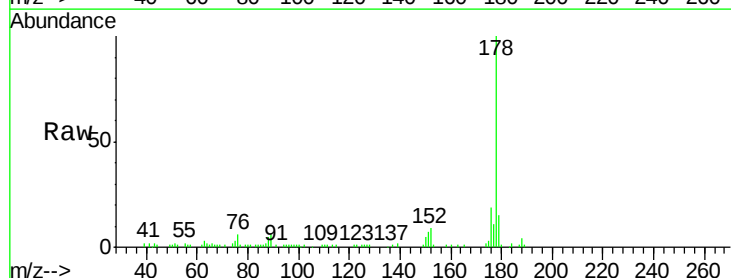


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

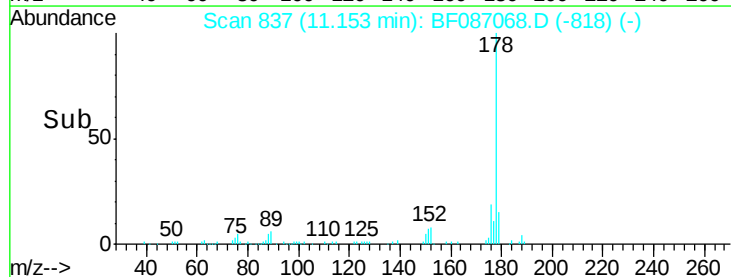
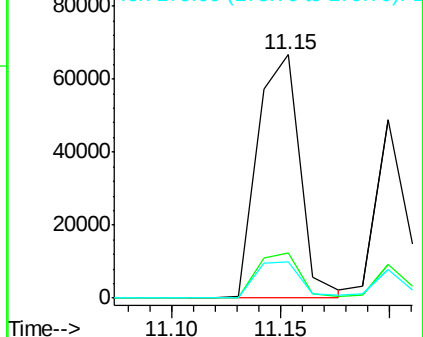


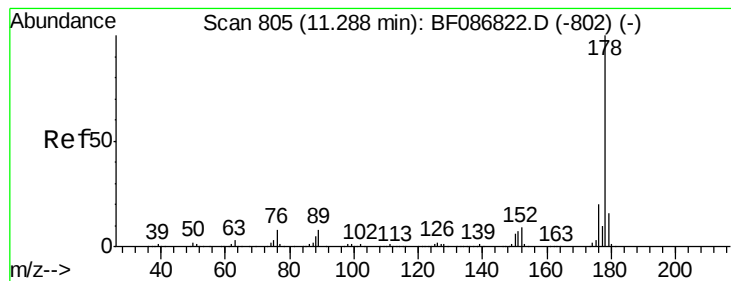
#70
 Phenanthrene
 Concen: 9.57 ng
 RT: 11.15 min Scan# 837
 Delta R.T. -0.08 min
 Lab File: BF087068.D
 Acq: 15 May 2016 14:30

Tgt Ion:178 Resp: 90766
 Ion Ratio Lower Upper
 178 100
 176 18.8 16.0 24.0
 179 15.0 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





#71

Anthracene

Concen: 5.50 ng

RT: 11.20 min Scan# 841

Delta R.T. -0.09 min

Lab File: BF087068.D

Acq: 15 May 2016 14:30

Instrument :

BNA_F

ClientSampleId :

DUPB

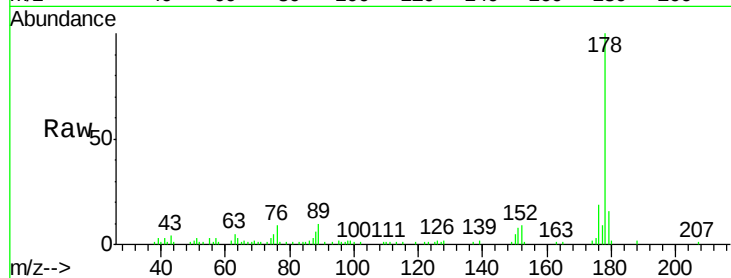
Tgt Ion:178 Resp: 53378

Ion Ratio Lower Upper

178 100

176 18.7 15.6 23.4

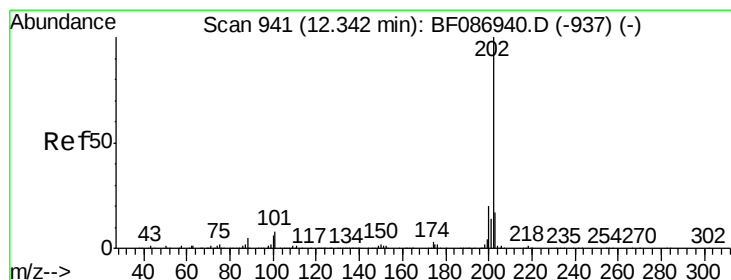
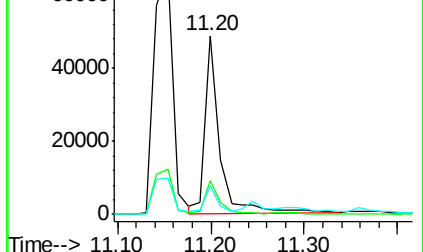
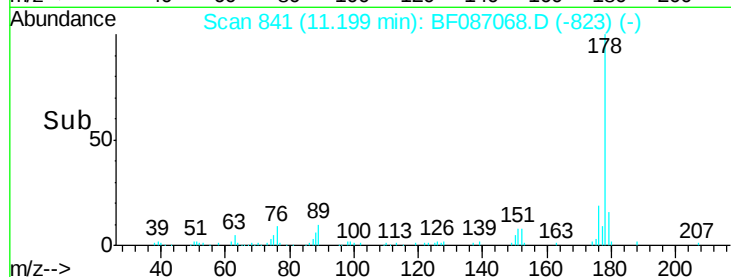
179 16.0 12.7 19.1



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



#74

Fluoranthene

Concen: 38.26 ng

RT: 12.33 min Scan# 940

Delta R.T. -0.09 min

Lab File: BF087068.D

Acq: 15 May 2016 14:30

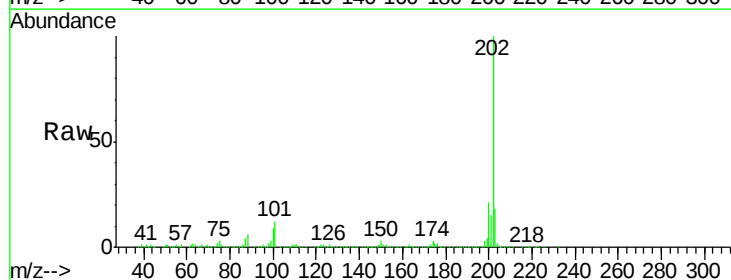
Tgt Ion:202 Resp: 373133

Ion Ratio Lower Upper

202 100

101 12.2 0.0 35.4

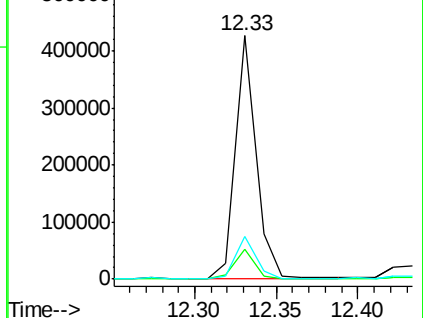
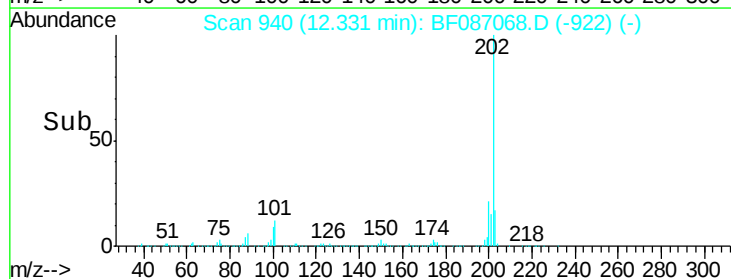
203 17.6 0.0 38.1

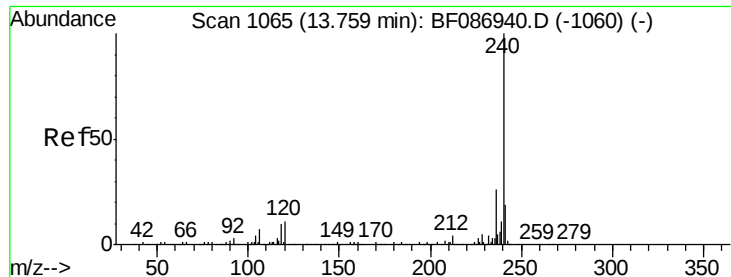


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.76 min Scan# 1065

Delta R.T. -0.08 min

Lab File: BF087068.D

Acq: 15 May 2016 14:30

Instrument :

BNA_F

ClientSampleId :

DUPB

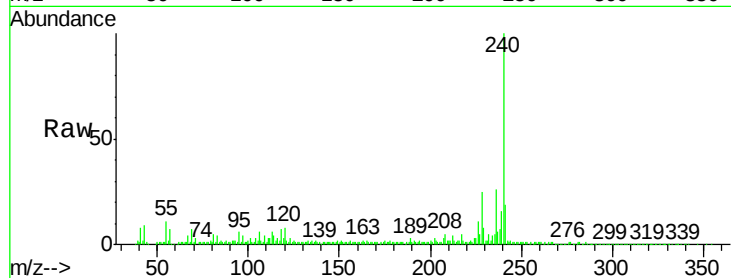
Tgt Ion:240 Resp: 176513

Ion Ratio Lower Upper

240 100

120 8.0 11.2 16.8#

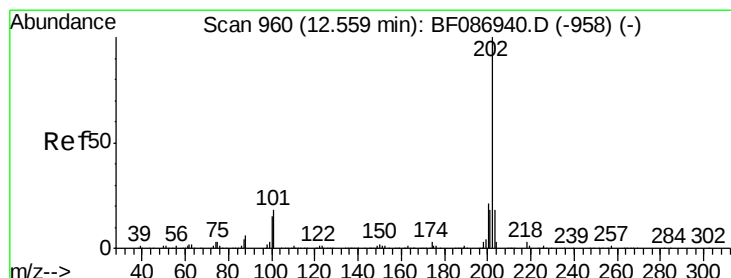
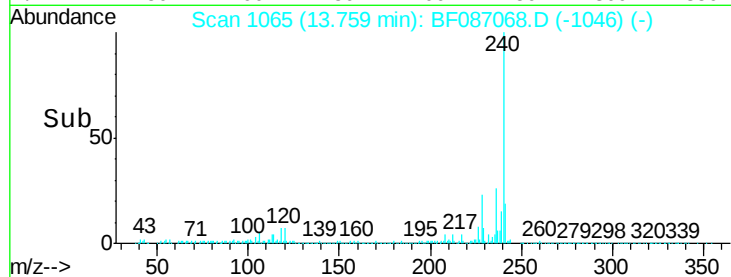
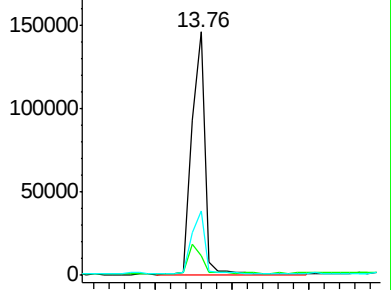
236 26.4 21.2 31.8



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



#77

Pyrene

Concen: 24.23 ng

RT: 12.56 min Scan# 960

Delta R.T. -0.08 min

Lab File: BF087068.D

Acq: 15 May 2016 14:30

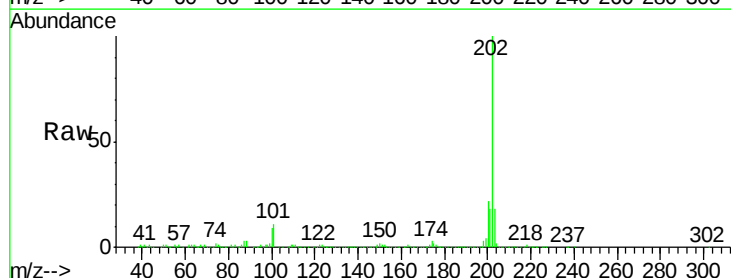
Tgt Ion:202 Resp: 327382

Ion Ratio Lower Upper

202 100

200 21.6 17.7 26.5

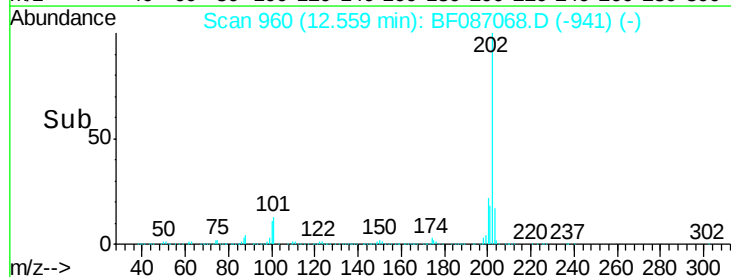
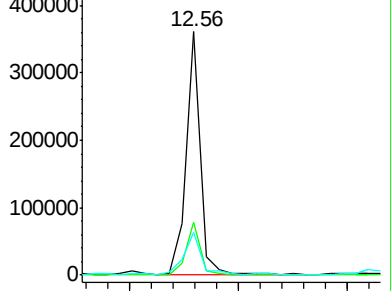
203 17.5 14.2 21.4

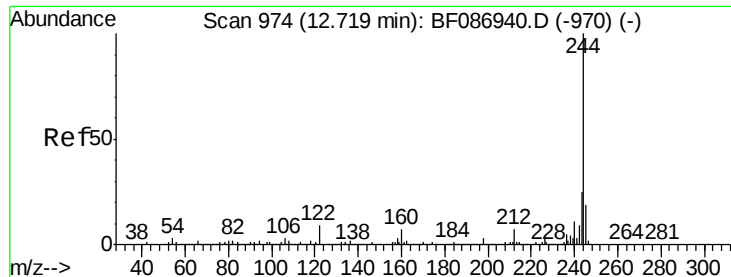


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

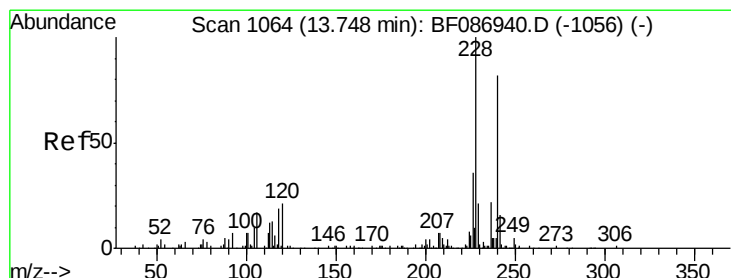
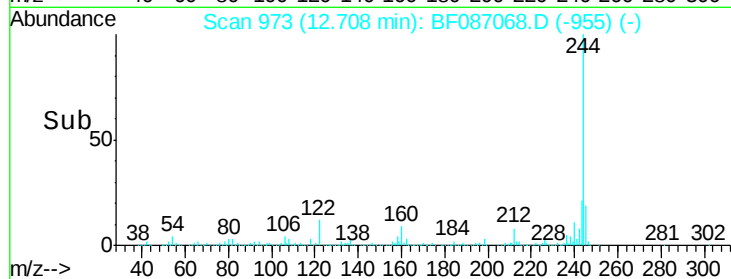
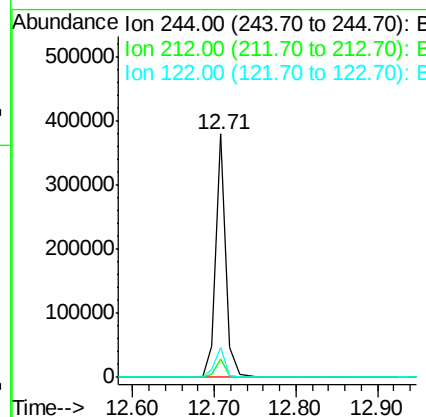
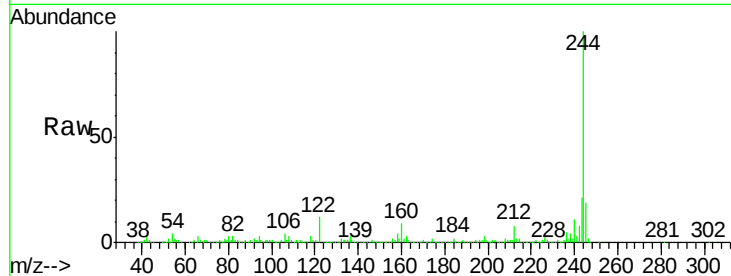




#78
 Terphenyl-d14
 Concen: 40.43 ng
 RT: 12.71 min Scan# 973
 Delta R.T. -0.09 min
 Lab File: BF087068.D
 Acq: 15 May 2016 14:30

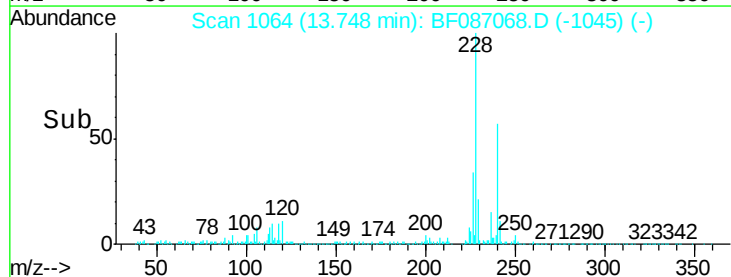
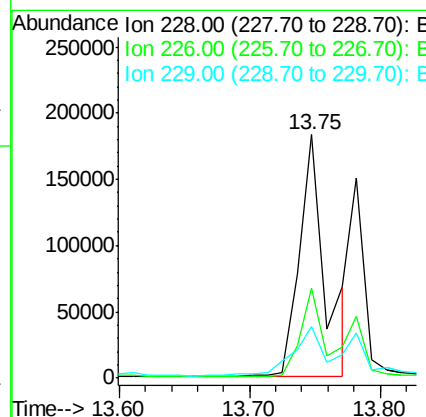
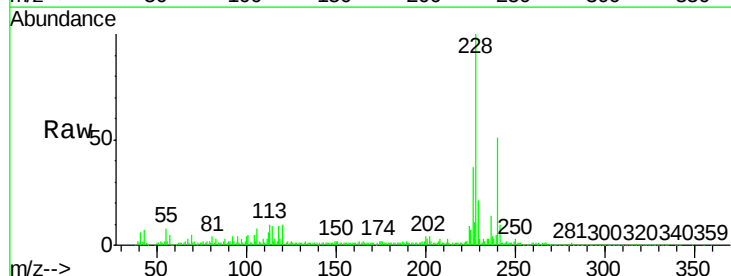
Instrument :
 BNA_F
 ClientSampleID :
 DUPB

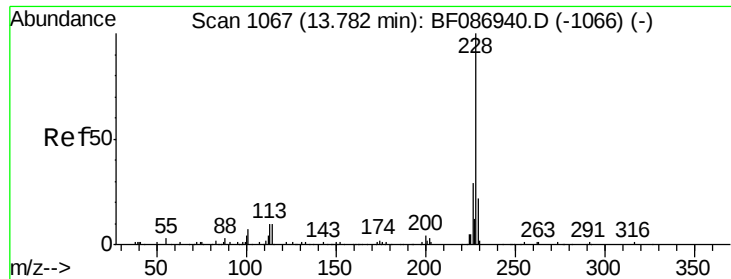
Tgt Ion:244 Resp: 336314
 Ion Ratio Lower Upper
 244 100
 212 7.8 6.2 9.2
 122 12.3 12.0 18.0



#80
 Benzo(a)anthracene
 Concen: 25.76 ng
 RT: 13.75 min Scan# 1064
 Delta R.T. -0.08 min
 Lab File: BF087068.D
 Acq: 15 May 2016 14:30

Tgt Ion:228 Resp: 255231
 Ion Ratio Lower Upper
 228 100
 226 37.2 22.5 33.7#
 229 21.4 16.6 25.0





#82

Chrysene

Concen: 25.32 ng

RT: 13.75 min Scan# 1064

Delta R.T. -0.11 min

Lab File: BF087068.D

Acq: 15 May 2016 14:30

Instrument :

BNA_F

ClientSampleId :

DUPB

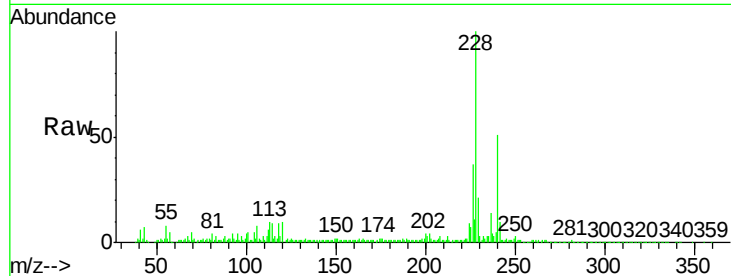
Tgt Ion: 228 Resp: 255231

Ion Ratio Lower Upper

228 100

226 37.2 24.4 36.6#

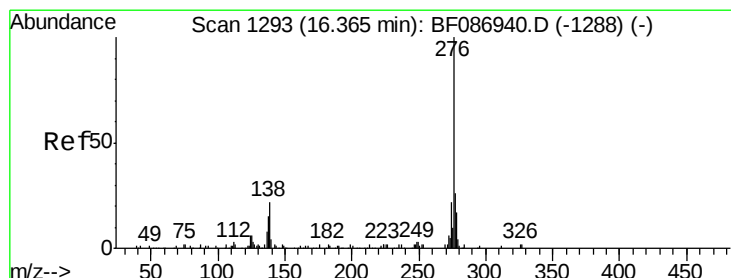
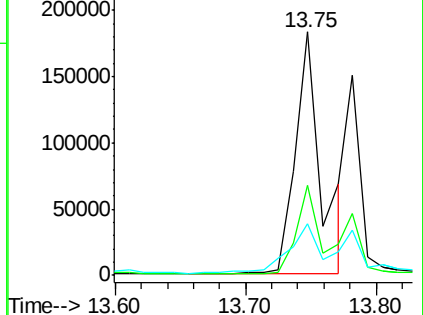
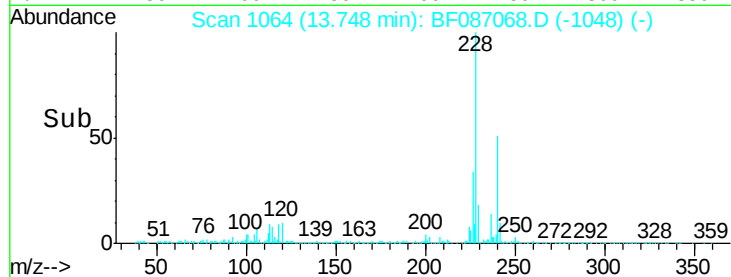
229 21.4 15.8 23.8



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 7.99 ng

RT: 16.38 min Scan# 1294

Delta R.T. -0.12 min

Lab File: BF087068.D

Acq: 15 May 2016 14:30

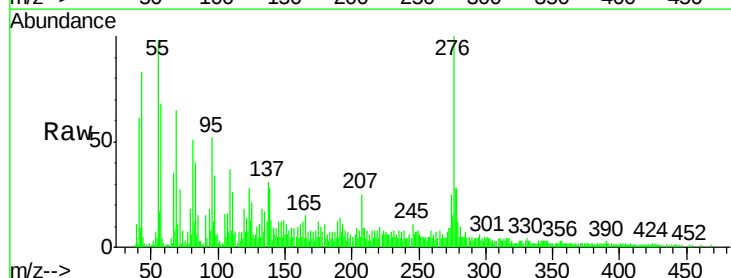
Tgt Ion: 276 Resp: 66970

Ion Ratio Lower Upper

276 100

138 22.8 25.6 38.4#

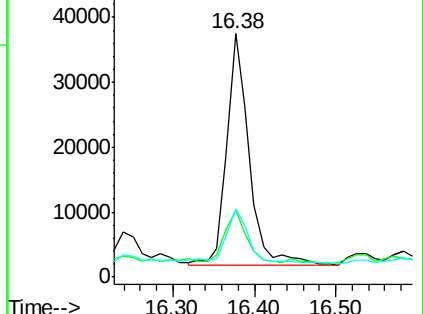
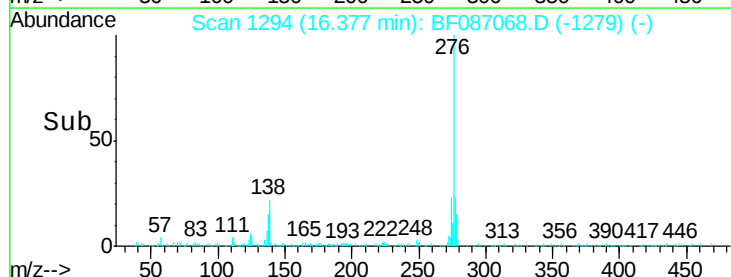
277 23.9 20.5 30.7

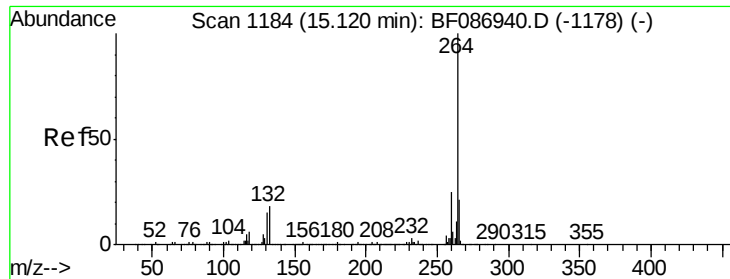


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

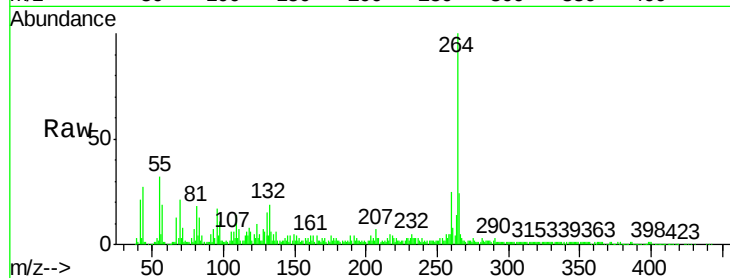




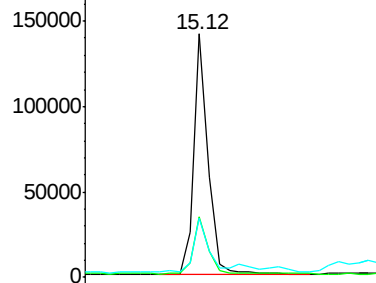
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.12 min Scan# 1184
Delta R.T. -0.09 min
Lab File: BF087068.D
Acq: 15 May 2016 14:30

Instrument :
BNA_F
ClientSampleId :
DUPB

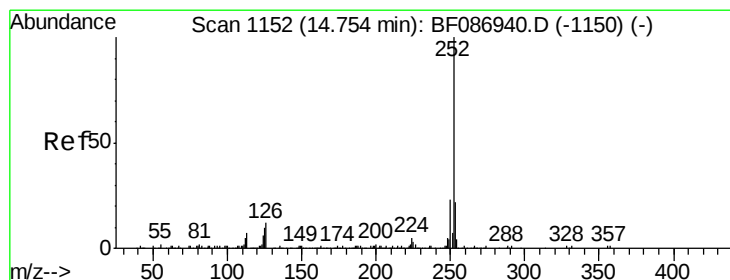
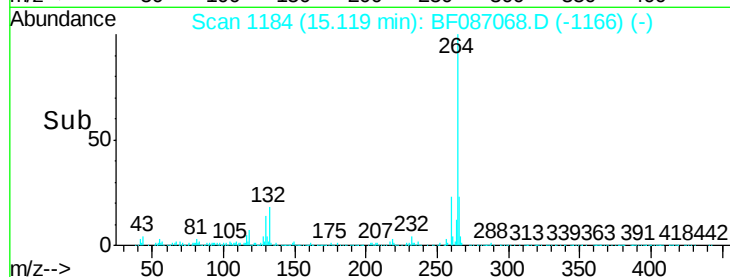
Tgt Ion: 264 Resp: 164877
Ion Ratio Lower Upper
264 100
260 25.1 19.5 29.3
265 24.4 17.3 25.9



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

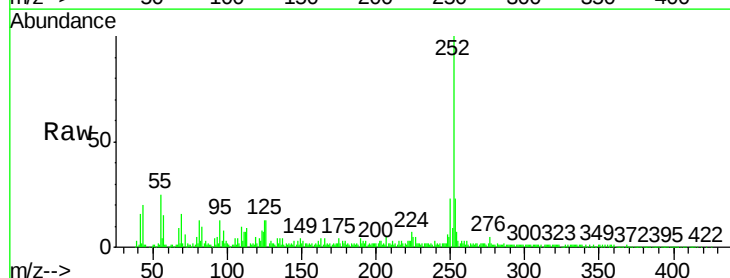


Time--> 15.00 15.10 15.20 15.30

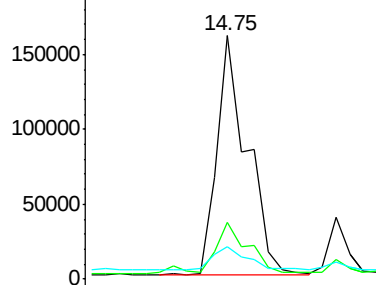


#87
Benzo(b)fluoranthene
Concen: 26.64 ng
RT: 14.75 min Scan# 1152
Delta R.T. -0.08 min
Lab File: BF087068.D
Acq: 15 May 2016 14:30

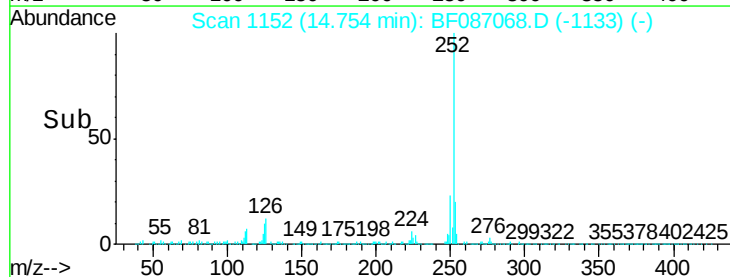
Tgt Ion: 252 Resp: 285479
Ion Ratio Lower Upper
252 100
253 23.3 17.8 26.6
125 13.4 11.4 17.0

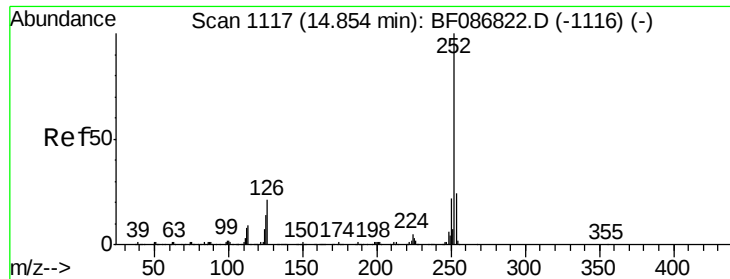


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



Time--> 14.70 14.80





#88

Benzo(k)fluoranthene

Concen: 32.54 ng

RT: 14.75 min Scan# 1152

Delta R.T. -0.10 min

Lab File: BF087068.D

Acq: 15 May 2016 14:30

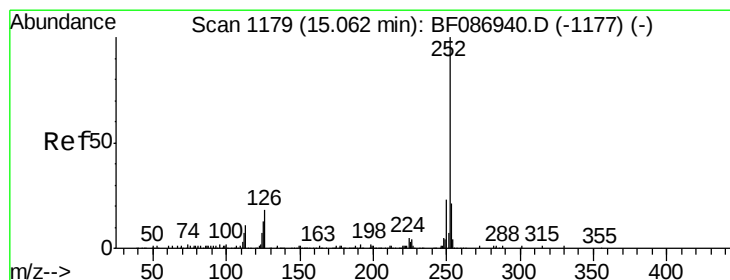
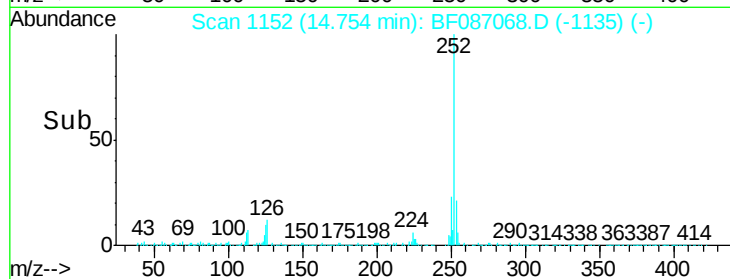
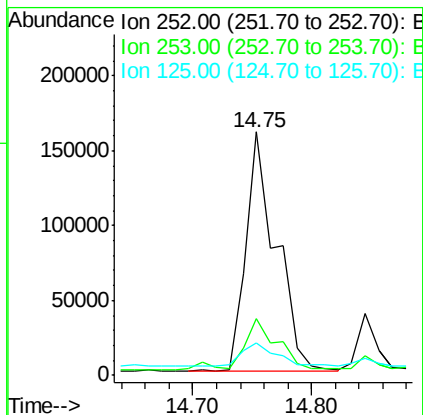
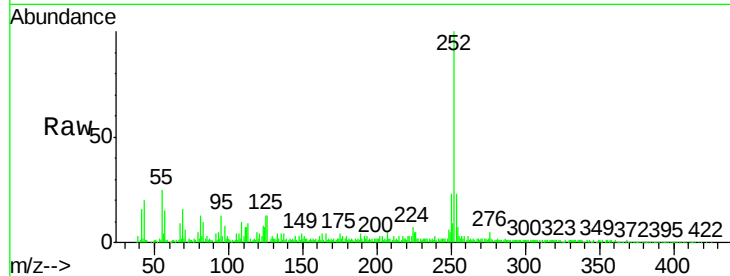
Instrument :

BNA_F

ClientSampleId :

DUPB

Tgt Ion:	252	Resp:	285479
Ion Ratio	Lower	Upper	
252	100		
253	23.3	17.8	26.6
125	13.4	9.1	13.7



#89

Benzo(a)pyrene

Concen: 14.95 ng

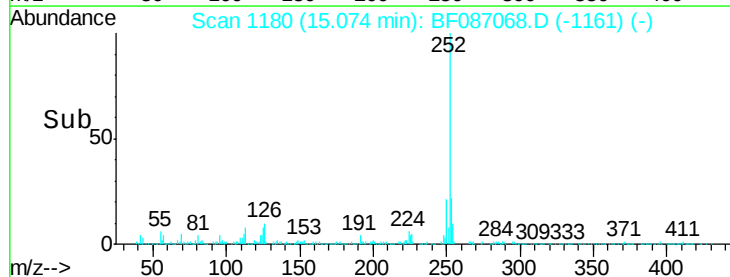
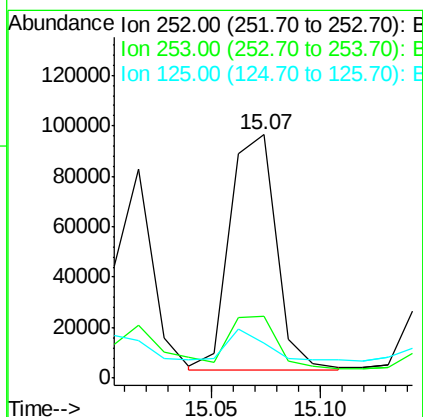
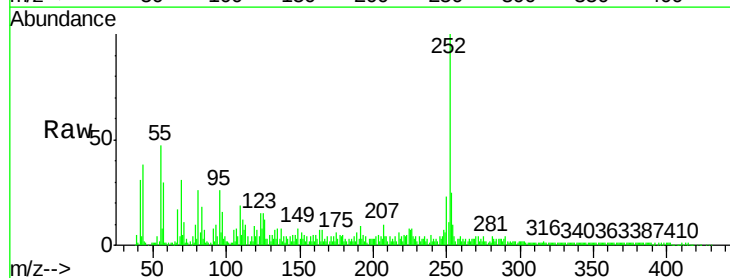
RT: 15.07 min Scan# 1180

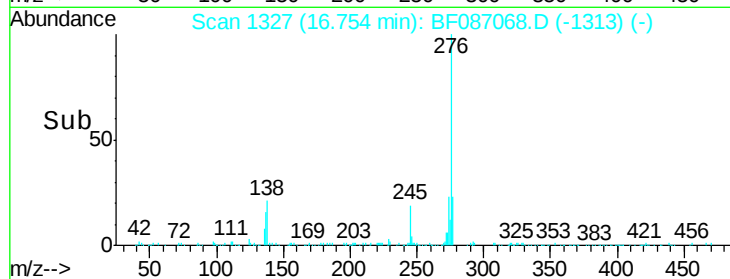
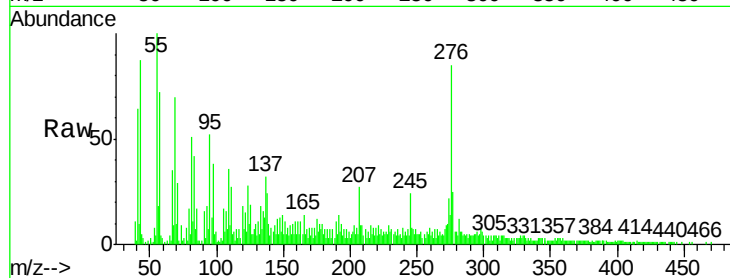
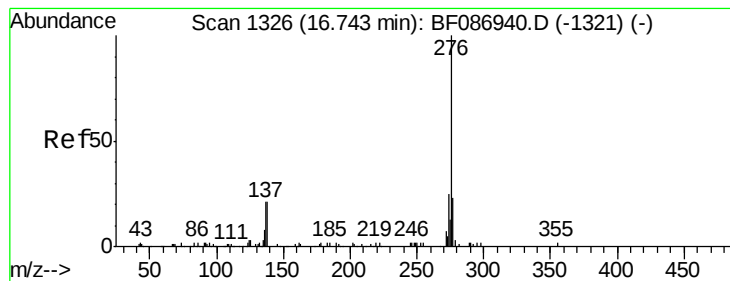
Delta R.T. -0.08 min

Lab File: BF087068.D

Acq: 15 May 2016 14:30

Tgt Ion:	252	Resp:	138138
Ion Ratio	Lower	Upper	
252	100		
253	25.4	17.2	25.8
125	14.6	9.0	13.6#





#91

Benzo(g,h,i)perylene

Concen: 6.93 ng

RT: 16.75 min Scan# 1327

Delta R.T. -0.13 min

Lab File: BF087068.D

Acq: 15 May 2016 14:30

Instrument :

BNA_F

ClientSampleId :

DUPB

Tgt Ion: 276 Resp: 54859

Ion Ratio Lower Upper

276 100

277 29.4 19.6 29.4#

138 28.0 23.6 35.4

