

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF020816\
 Data File : BF084937.D
 Acq On : 8 Feb 2016 19:15
 Operator : SJ/IZ
 Sample : H1329-12
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 S4-B010(0-2)

Quant Time: Feb 09 02:37:17 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF020116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 03 14:16:01 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.65	152	170473	20.00	ng	-0.03
21) Naphthalene-d8	7.94	136	686057	20.00	ng	-0.03
38) Acenaphthene-d10	9.69	164	285398	20.00	ng	-0.05
63) Phenanthrene-d10	11.16	188	454519	20.00	ng	-0.05
75) Chrysene-d12	13.79	240	300236	20.00	ng	-0.05
86) Perylene-d12	15.16	264	274979	20.00	ng	-0.05

System Monitoring Compounds						
5) 2-Fluorophenol	5.24	112	991560	90.60	ng	-0.03
7) Phenol-d6	6.30	99	1246338	91.86	ng	-0.03
23) Nitrobenzene-d5	7.22	82	777298	63.82	ng	-0.05
41) 2,4,6-Tribromophenol	10.48	330	216070	72.58	ng	-0.05
44) 2-Fluorobiphenyl	9.01	172	1239166	68.58	ng	-0.05
78) Terphenyl-d14	12.75	244	902063	68.08	ng	-0.05

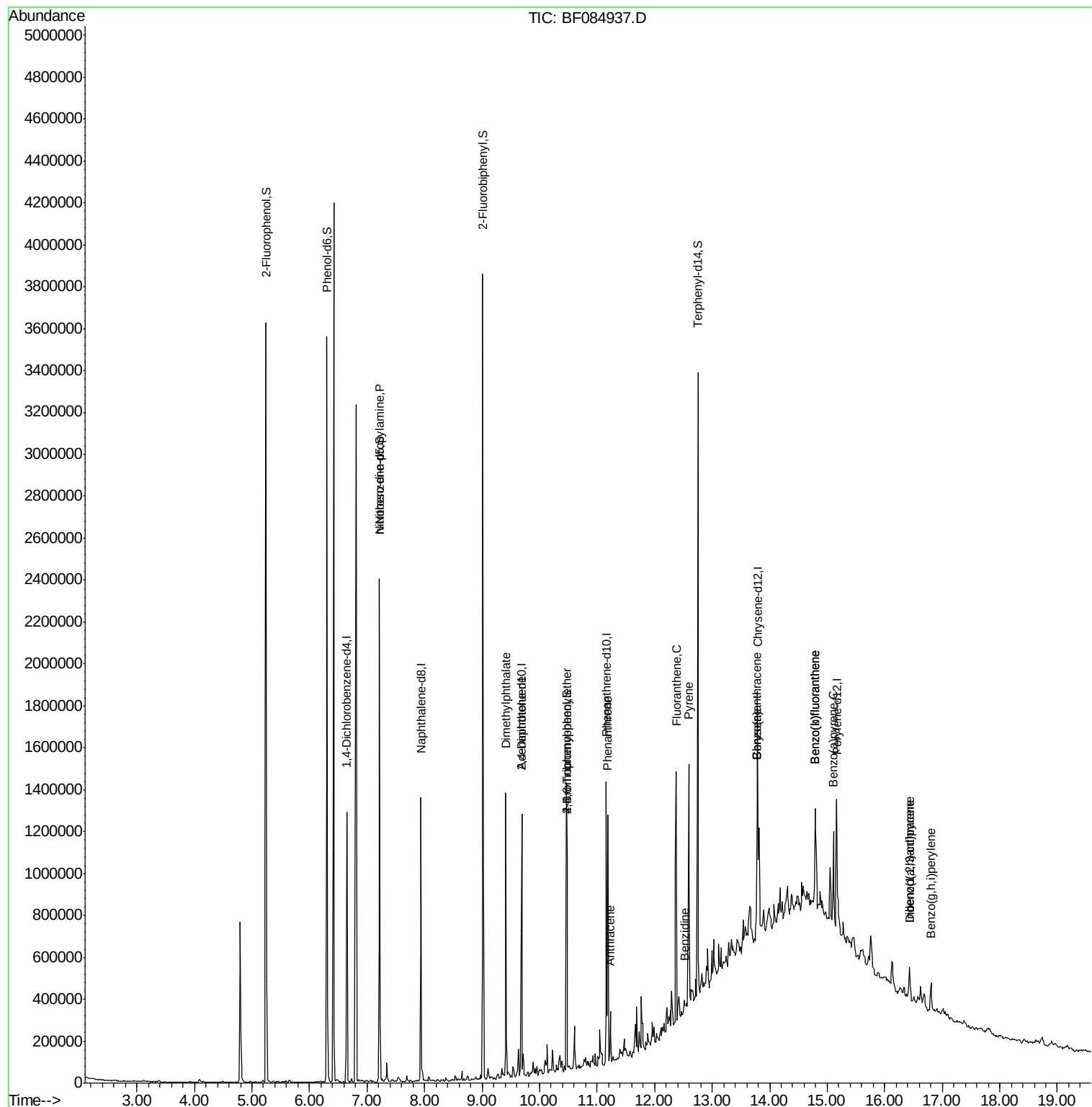
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	7.22	70	107504	12.64	ng	# 71
49) Dimethylphthalate	9.41	163	473853	21.80	ng	# 90
56) 2,4-Dinitrotoluene	9.69	165	38571	6.37	ng	# 21
66) 4-Bromophenyl-phenylether	10.48	248	12905	2.57	ng	# 1
70) Phenanthrene	11.19	178	413511	16.40	ng	99
71) Anthracene	11.23	178	104884	4.13	ng	98
74) Fluoranthene	12.37	202	608305	23.84	ng	94
76) Benzidine	12.52	184	2678	7.06	ng	# 1
77) Pyrene	12.59	202	558500	24.30	ng	97
80) Benzo(a)anthracene	13.78	228	273940	14.70	ng	98
82) Chrysene	13.78	228	273940	15.16	ng	98
85) Indeno(1,2,3-cd)pyrene	16.43	276	107754	7.58	ng	97
87) Benzo(b)fluoranthene	14.79	252	342781	18.55	ng	# 91
88) Benzo(k)fluoranthene	14.79	252	342781	22.44	ng	# 94
89) Benzo(a)pyrene	15.11	252	193693	12.30	ng	# 93
90) Dibenzo(a,h)anthracene	16.43	278	33403	2.52	ng	# 84
91) Benzo(g,h,i)perylene	16.81	276	101510	7.60	ng	96

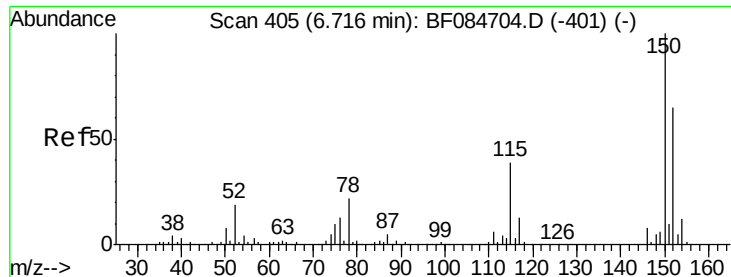
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.65 min Scan# 399

Delta R.T. -0.03 min

Lab File: BF084937.D

Acq: 8 Feb 2016 19:15

Instrument :

BNA_F

ClientSampleId :

S4-B010(0-2)

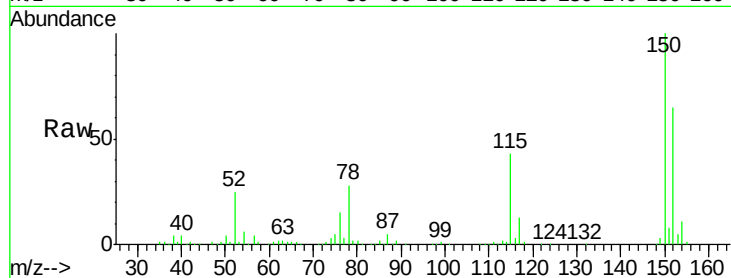
Tgt Ion:152 Resp: 170473

Ion Ratio Lower Upper

152 100

150 154.4 123.0 184.4

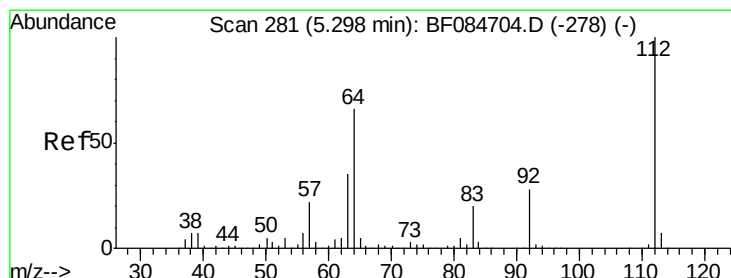
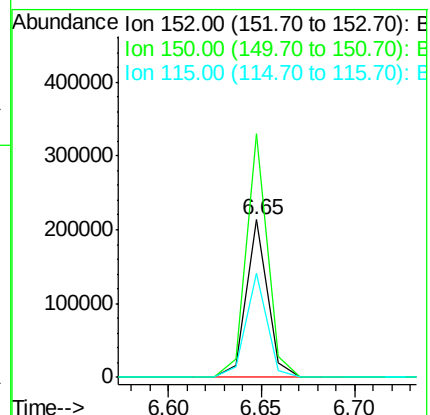
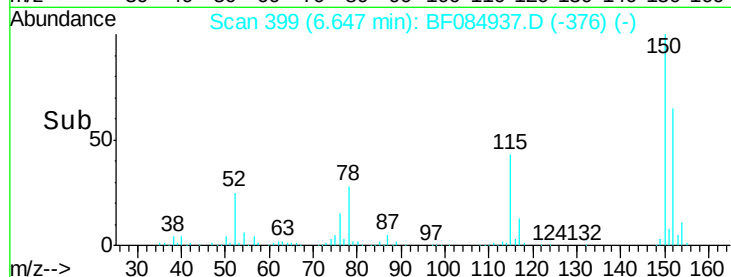
115 65.9 51.4 77.2



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: 90.60 ng

RT: 5.24 min Scan# 276

Delta R.T. -0.03 min

Lab File: BF084937.D

Acq: 8 Feb 2016 19:15

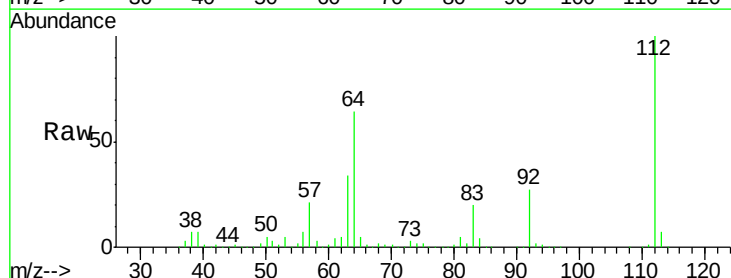
Tgt Ion:112 Resp: 991560

Ion Ratio Lower Upper

112 100

64 63.7 36.6 55.0#

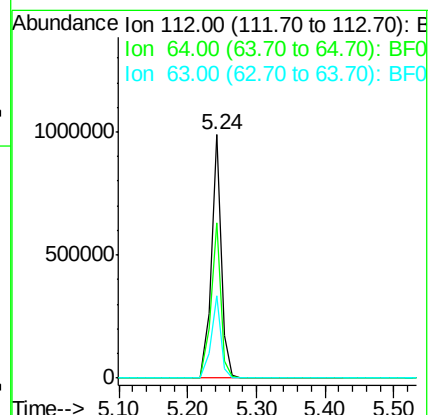
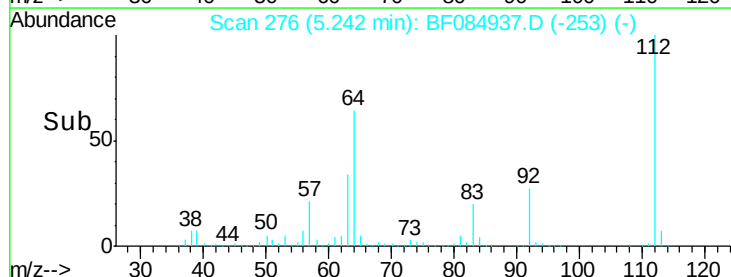
63 33.7 19.4 29.0#

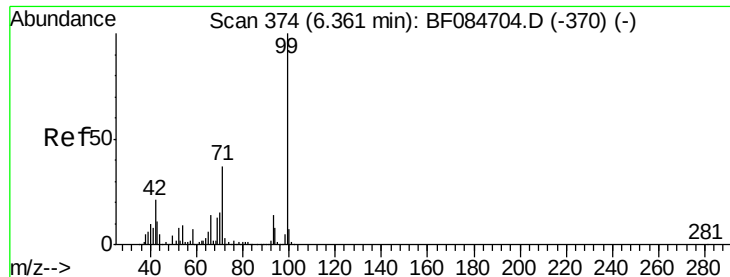


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 91.86 ng

RT: 6.30 min Scan# 369

Delta R.T. -0.03 min

Lab File: BF084937.D

Acq: 8 Feb 2016 19:15

Instrument :

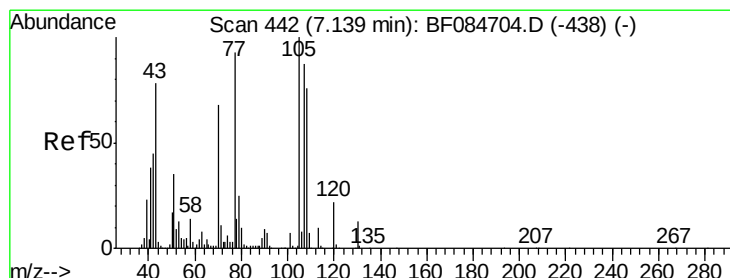
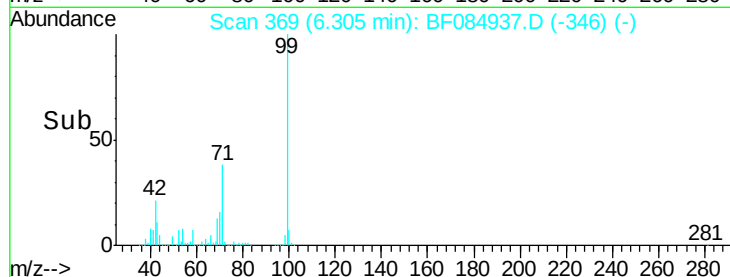
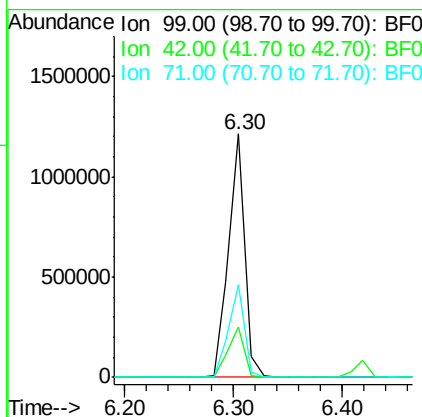
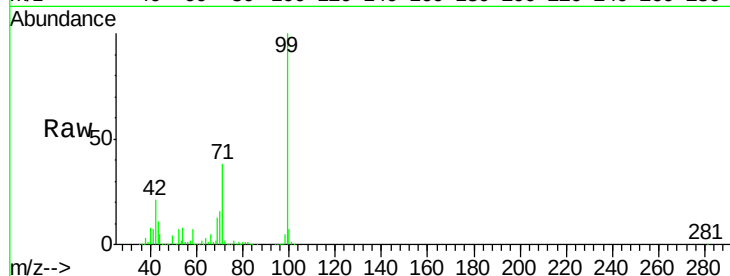
BNA_F

ClientSampleId :

S4-B010(0-2)

Tgt Ion: 99 Resp: 1246338

Ion	Ratio	Lower	Upper
99	100		
42	20.8	12.8	19.2#
71	37.8	30.9	46.3



#19

n-Nitroso-di-n-propylamine

Concen: 12.64 ng

RT: 7.22 min Scan# 449

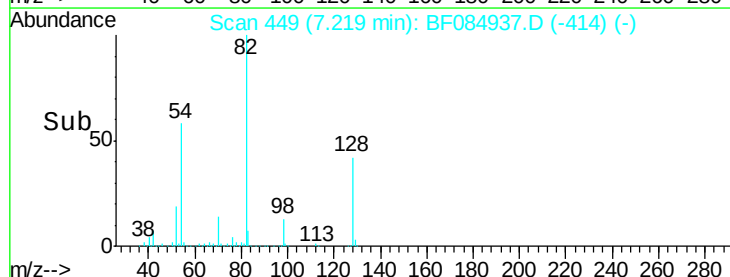
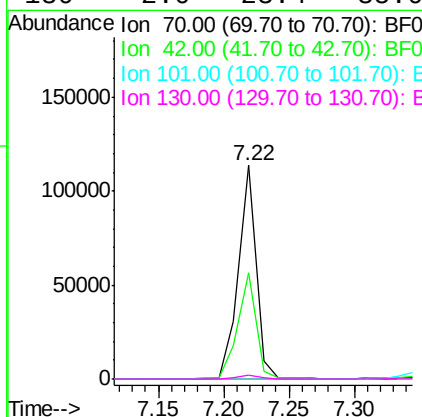
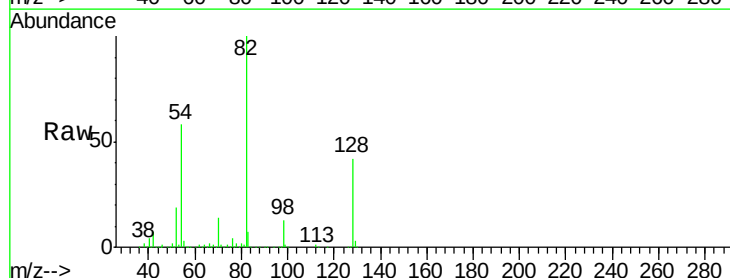
Delta R.T. 0.10 min

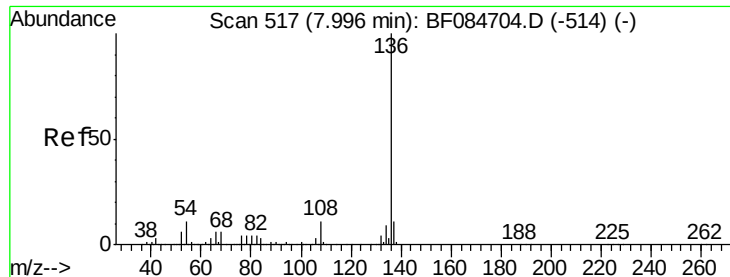
Lab File: BF084937.D

Acq: 8 Feb 2016 19:15

Tgt Ion: 70 Resp: 107504

Ion	Ratio	Lower	Upper
70	100		
42	49.6	33.3	49.9
101	0.0	9.3	13.9#
130	2.0	23.4	35.0#

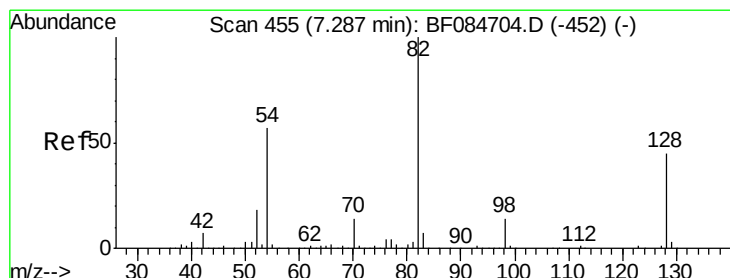
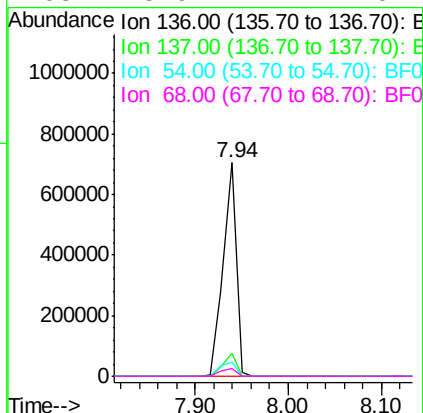
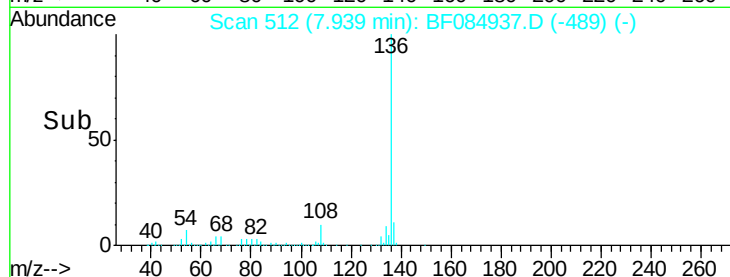
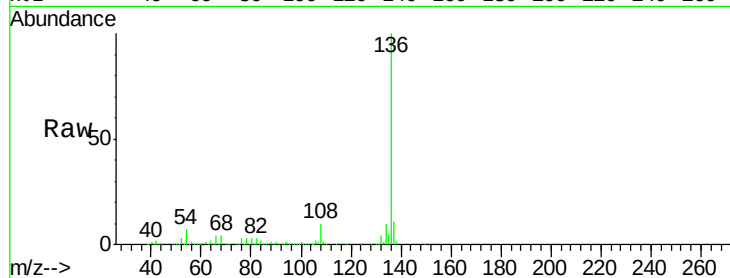




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.94 min Scan# 512
Delta R.T. -0.03 min
Lab File: BF084937.D
Acq: 8 Feb 2016 19:15

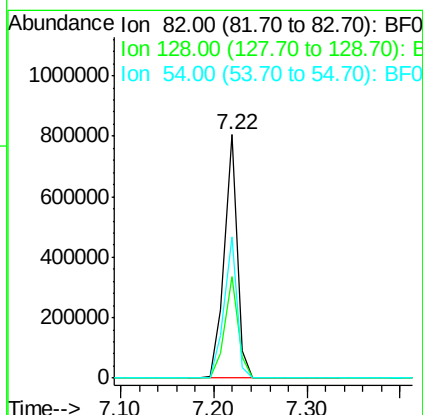
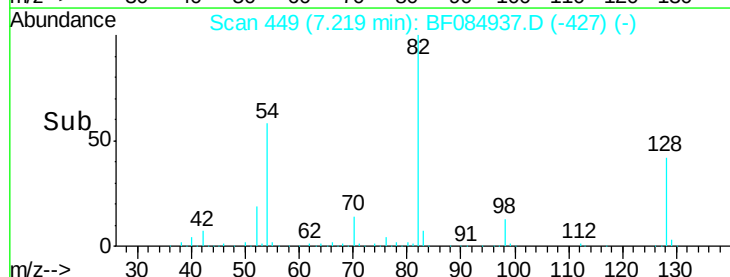
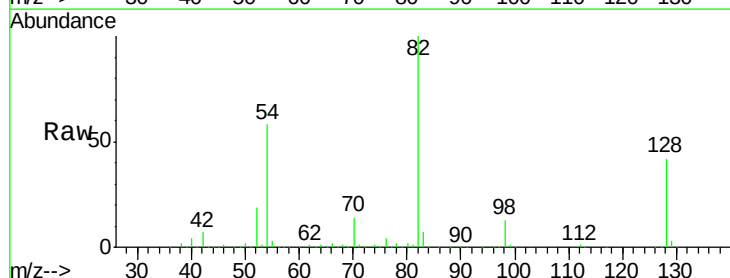
Instrument :
BNA_F
ClientSampleId :
S4-B010(0-2)

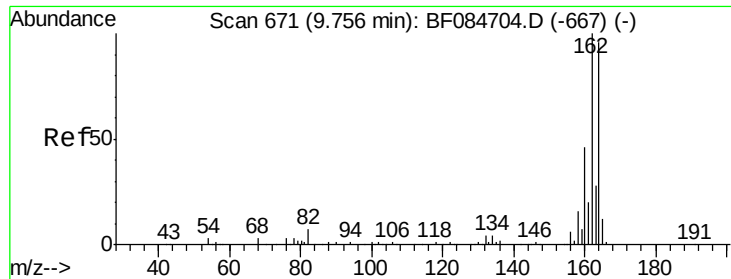
Tgt Ion:	136	Resp:	686057
Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.7	13.1
54	6.6	5.8	8.8
68	3.9	4.2	6.2#



#23
Nitrobenzene-d5
Concen: 63.82 ng
RT: 7.22 min Scan# 449
Delta R.T. -0.05 min
Lab File: BF084937.D
Acq: 8 Feb 2016 19:15

Tgt Ion:	82	Resp:	777298
Ion	Ratio	Lower	Upper
82	100		
128	41.8	34.6	51.8
54	58.3	38.4	57.6#

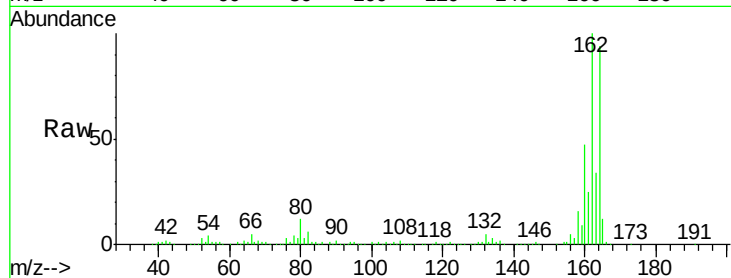




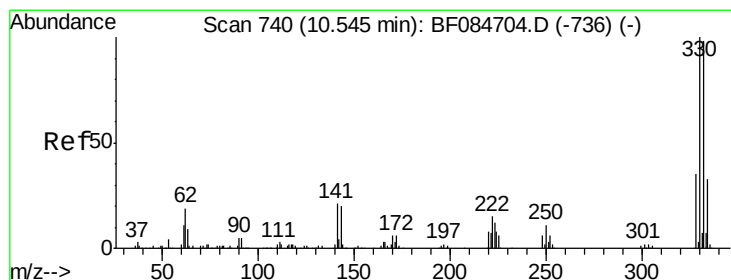
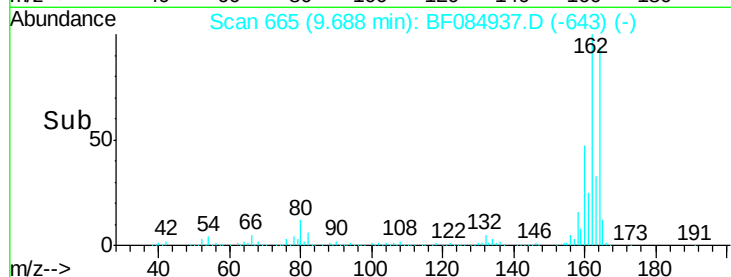
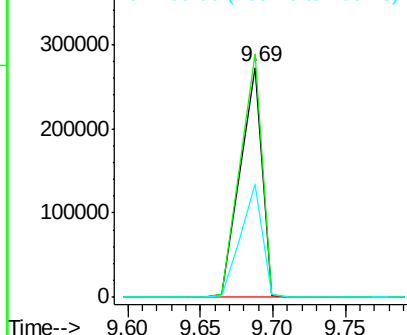
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.69 min Scan# 665
 Delta R.T. -0.05 min
 Lab File: BF084937.D
 Acq: 8 Feb 2016 19:15

Instrument :
 BNA_F
 ClientSampleId :
 S4-B010(0-2)

Tgt Ion:164 Resp: 285398
 Ion Ratio Lower Upper
 164 100
 162 106.1 85.1 127.7
 160 49.4 37.5 56.3

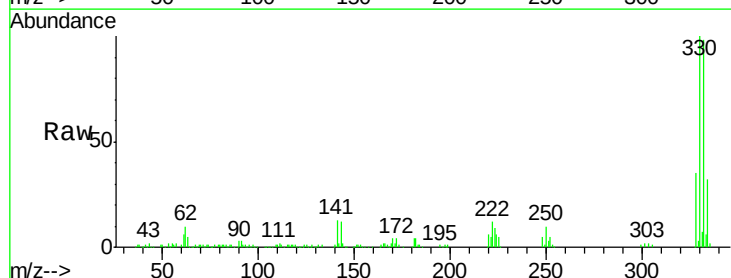


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

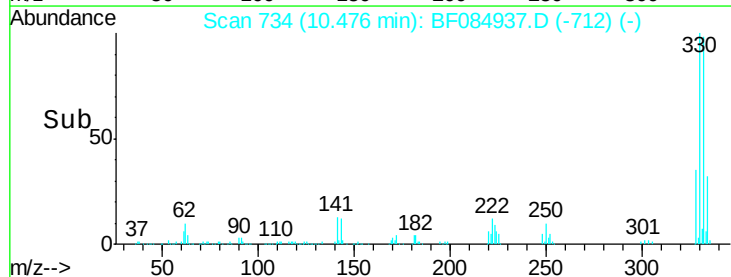
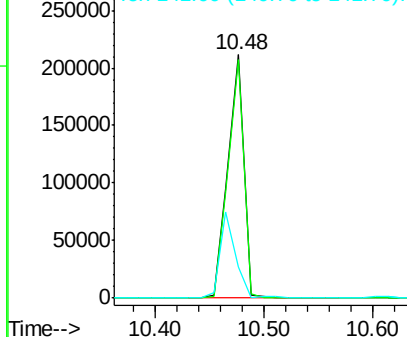


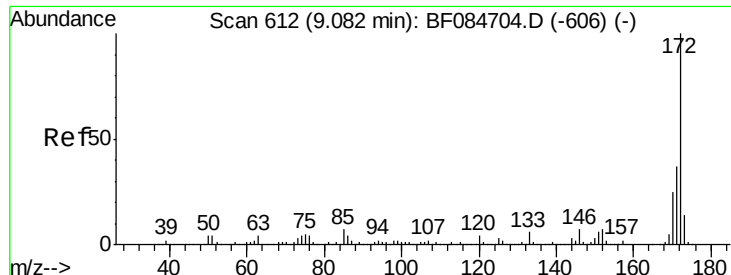
#41
 2,4,6-Tribromophenol
 Concen: 72.58 ng
 RT: 10.48 min Scan# 734
 Delta R.T. -0.05 min
 Lab File: BF084937.D
 Acq: 8 Feb 2016 19:15

Tgt Ion:330 Resp: 216070
 Ion Ratio Lower Upper
 330 100
 332 97.4 76.6 114.8
 141 35.7 27.8 41.6



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

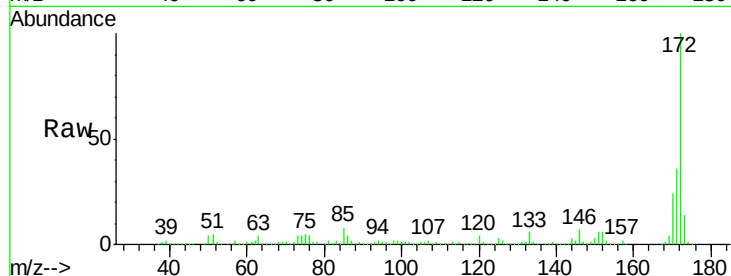




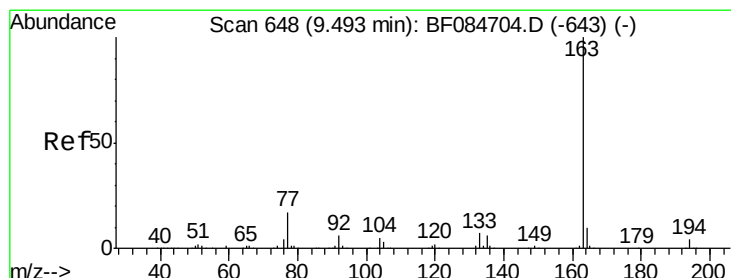
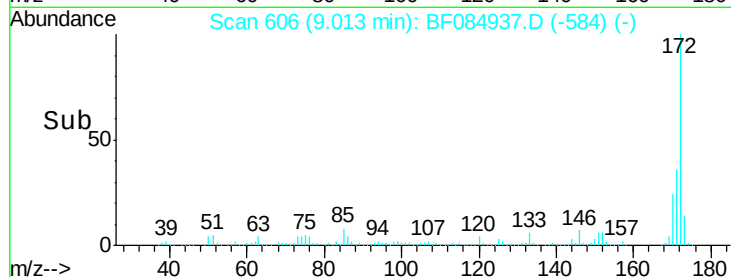
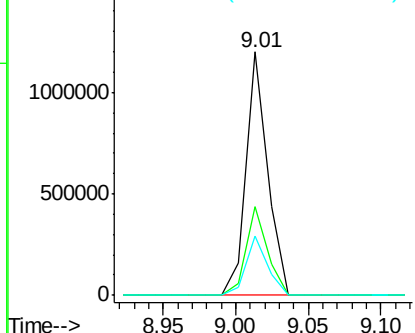
#44
 2-Fluorobiphenyl
 Concen: 68.58 ng
 RT: 9.01 min Scan# 606
 Delta R.T. -0.05 min
 Lab File: BF084937.D
 Acq: 8 Feb 2016 19:15

Instrument :
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 ClientSampleId :
 S4-B010(0-2)

Tgt Ion:172 Resp: 1239166
 Ion Ratio Lower Upper
 172 100
 171 36.4 28.9 43.3
 170 24.2 18.6 27.8

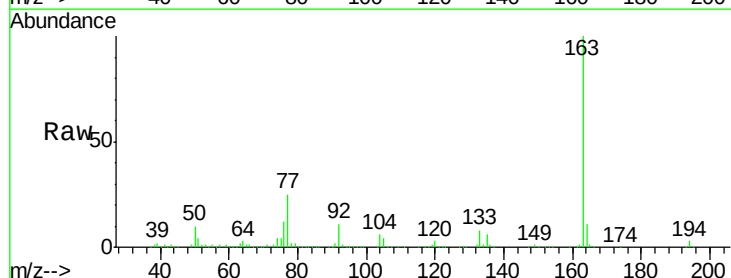


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

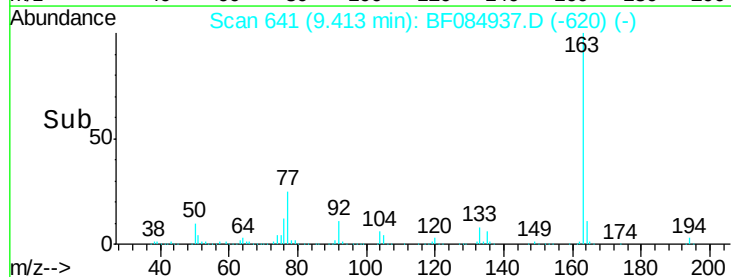
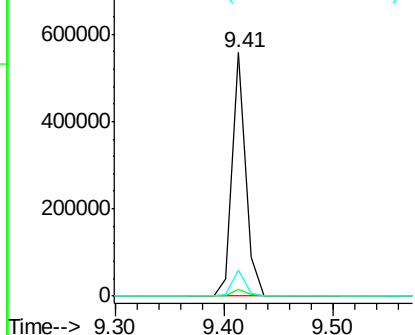


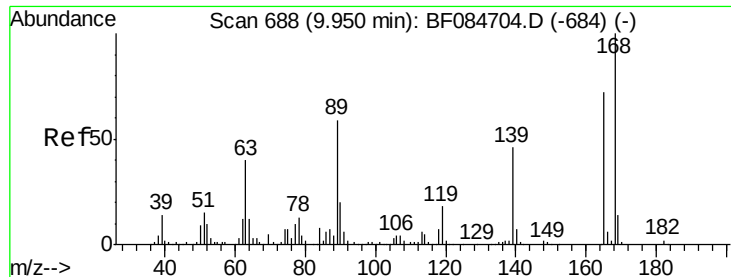
#49
 Dimethylphthalate
 Concen: 21.80 ng
 RT: 9.41 min Scan# 641
 Delta R.T. -0.06 min
 Lab File: BF084937.D
 Acq: 8 Feb 2016 19:15

Tgt Ion:163 Resp: 473853
 Ion Ratio Lower Upper
 163 100
 194 3.0 8.0 12.0#
 164 10.5 8.0 12.0



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

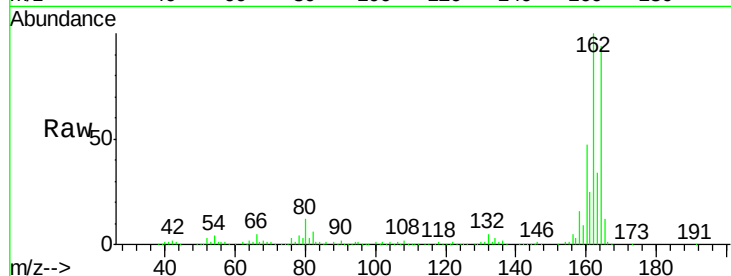




#56
 2,4-Dinitrotoluene
 Concen: 6.37 ng
 RT: 9.69 min Scan# 665
 Delta R.T. -0.24 min
 Lab File: BF084937.D
 Acq: 8 Feb 2016 19:15

Instrument :
 BNA_F
 ClientSampleId :
 S4-B010(0-2)

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.1	36.7	55.1#
89	1.6	61.9	92.9#
182	0.0	2.0	3.0#

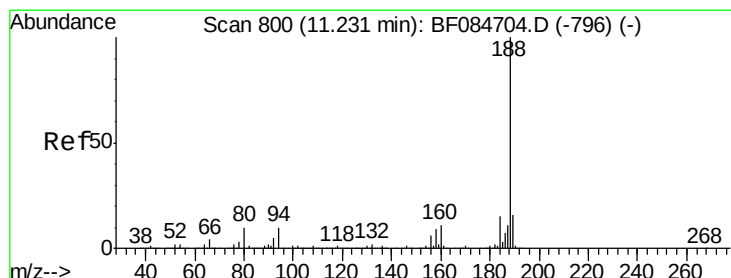
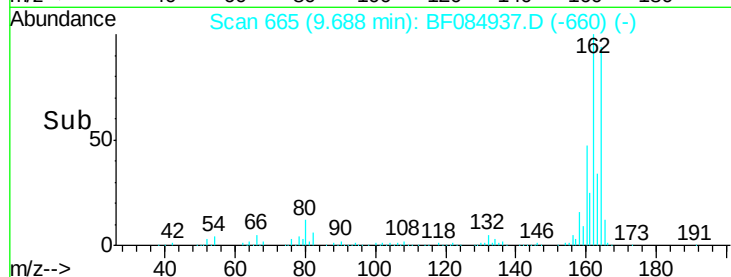
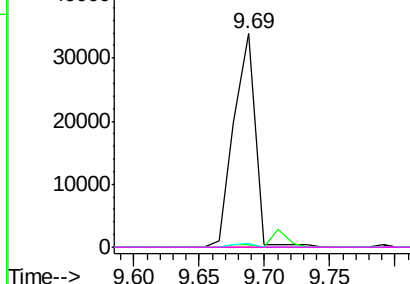


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

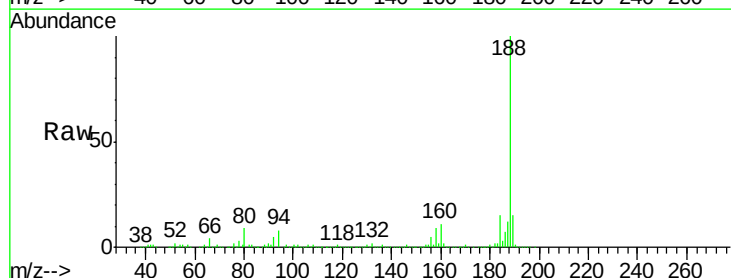
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.16 min Scan# 794
 Delta R.T. -0.05 min
 Lab File: BF084937.D
 Acq: 8 Feb 2016 19:15

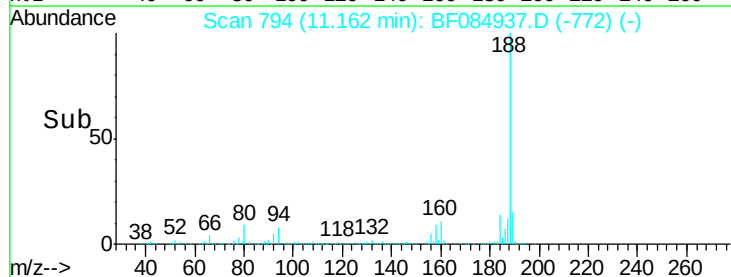
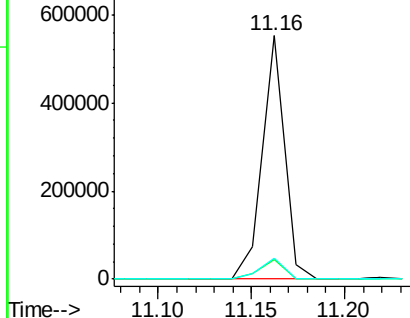
Tgt Ion	Ratio	Lower	Upper
188	100		
94	8.2	9.0	13.4#
80	8.6	9.6	14.4#

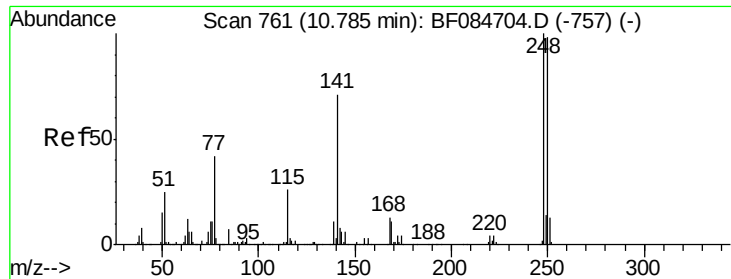


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#66

4-Bromophenyl-phenylether

Concen: 2.57 ng

RT: 10.48 min Scan# 734

Delta R.T. -0.29 min

Lab File: BF084937.D

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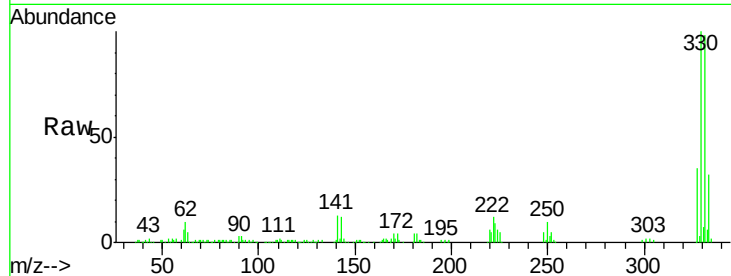
Tgt Ion:248 Resp: 12905

Ion Ratio Lower Upper

248 100

250 209.5 78.4 117.6#

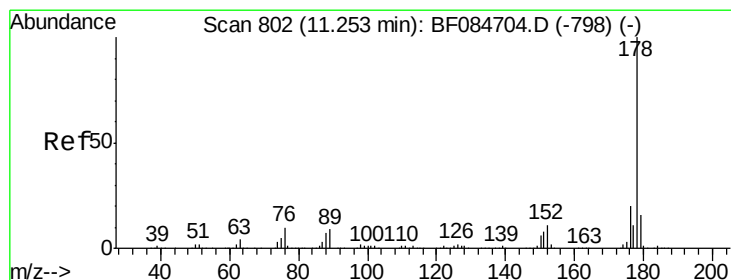
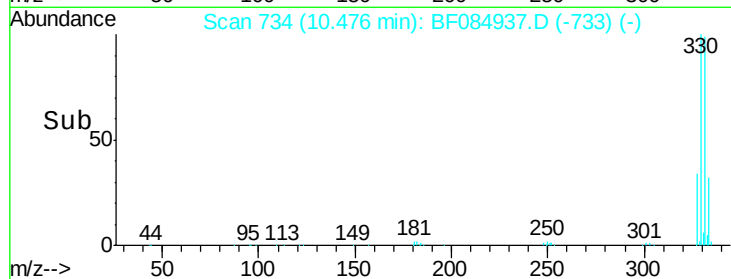
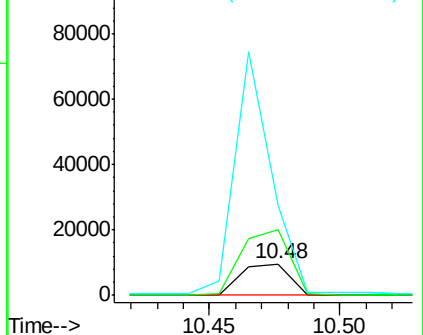
141 285.9 44.0 66.0#



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: 16.40 ng

RT: 11.19 min Scan# 796

Delta R.T. -0.05 min

Lab File: BF084937.D

Acq: 8 Feb 2016 19:15

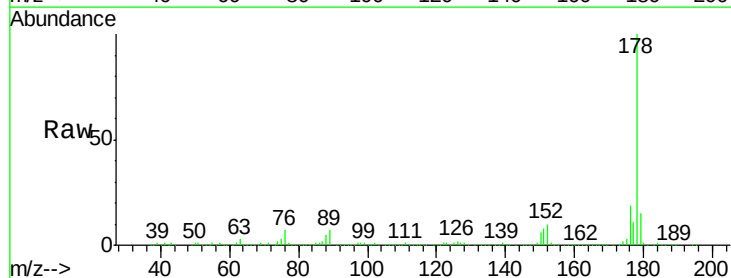
Tgt Ion:178 Resp: 413511

Ion Ratio Lower Upper

178 100

176 18.9 15.3 22.9

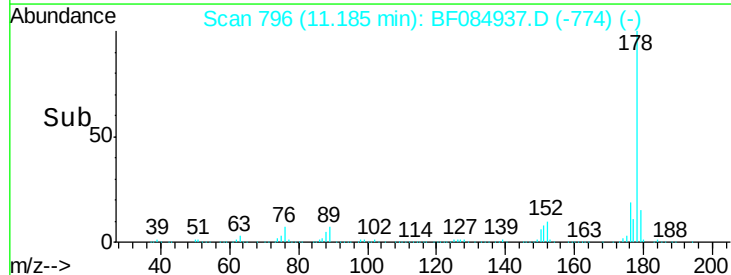
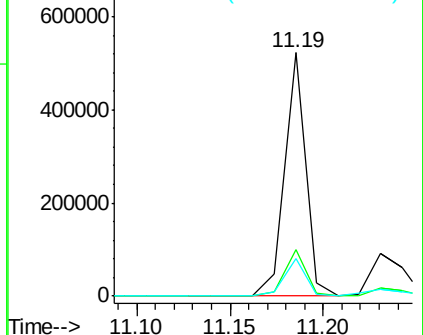
179 15.4 12.0 18.0

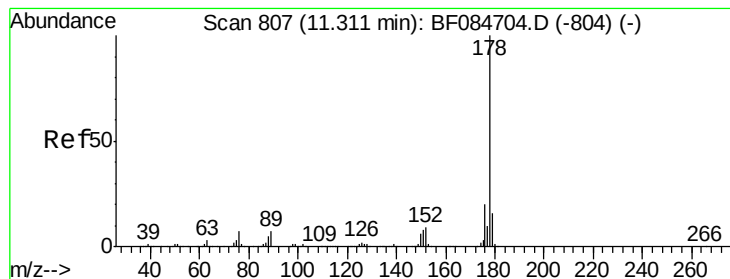


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 4.13 ng

RT: 11.23 min Scan# 800

Delta R.T. -0.06 min

Lab File: BF084937.D

Acq: 8 Feb 2016 19:15

Instrument :

BNA_F

ClientSampleId :

S4-B010(0-2)

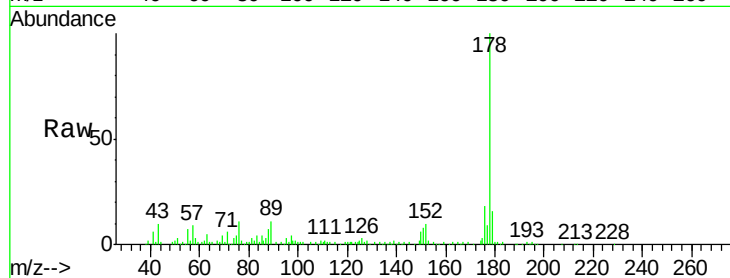
Tgt Ion:178 Resp: 104884

Ion Ratio Lower Upper

178 100

176 18.1 15.4 23.0

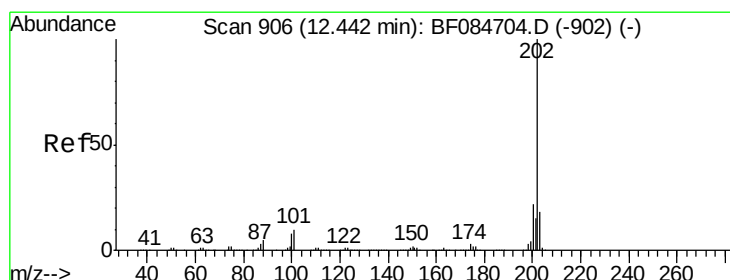
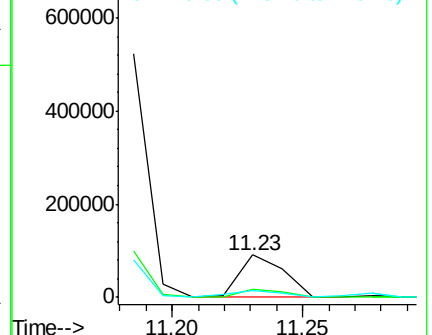
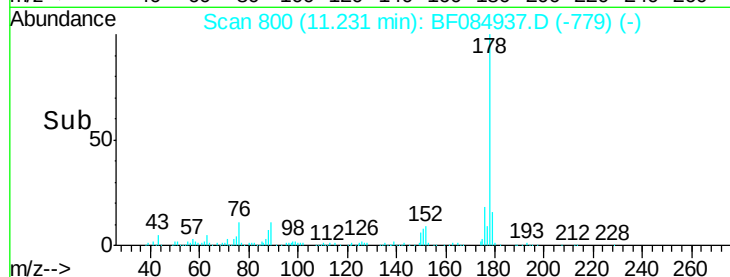
179 16.5 12.5 18.7



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: 23.84 ng

RT: 12.37 min Scan# 900

Delta R.T. -0.05 min

Lab File: BF084937.D

Acq: 8 Feb 2016 19:15

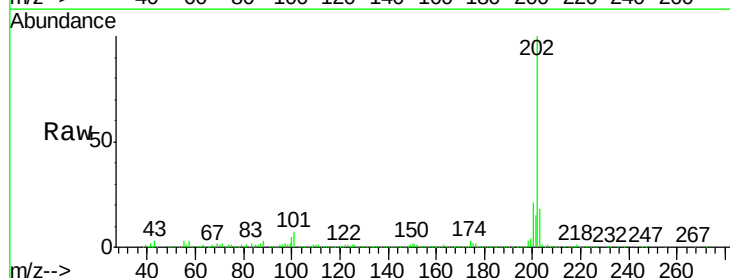
Tgt Ion:202 Resp: 608305

Ion Ratio Lower Upper

202 100

101 7.2 0.0 32.8

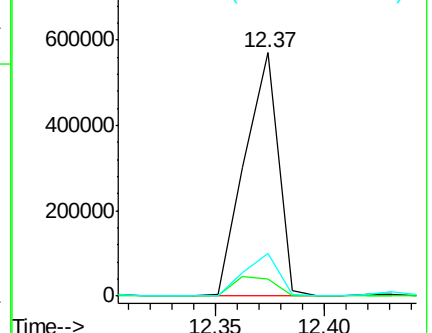
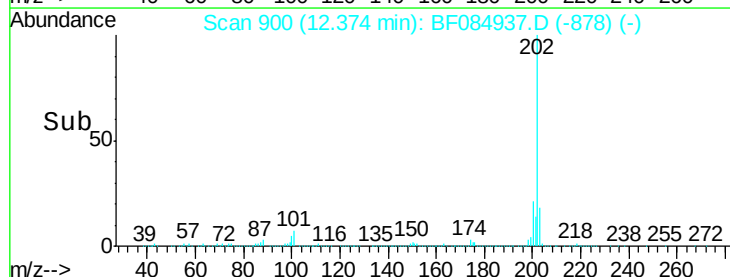
203 17.6 0.0 37.9

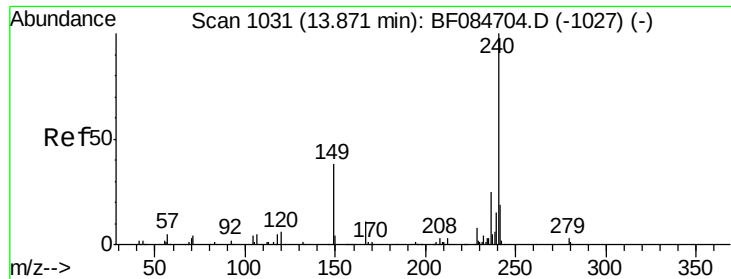


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.79 min Scan# 1024

Delta R.T. -0.05 min

Lab File: BF084937.D

Acq: 8 Feb 2016 19:15

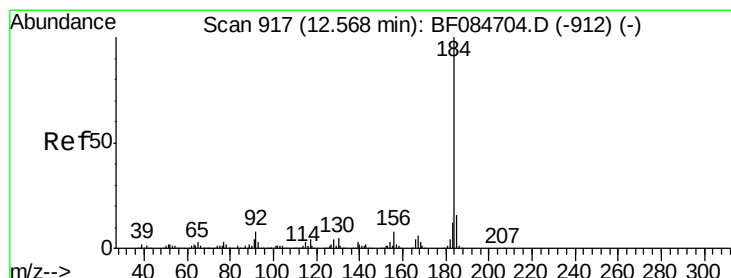
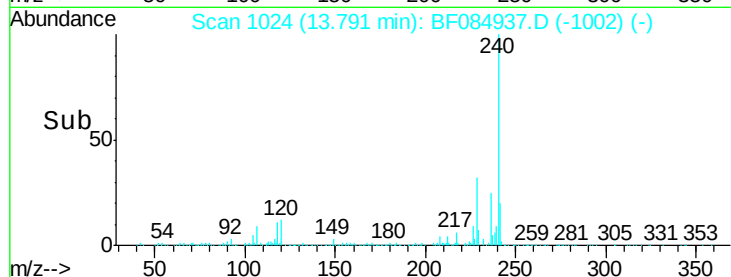
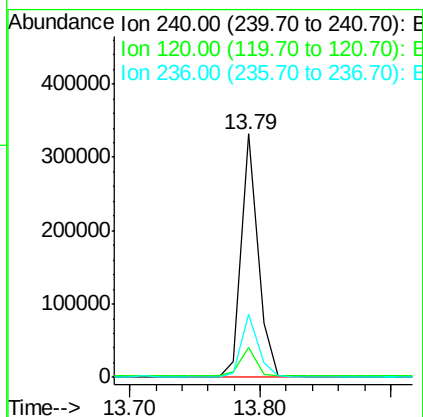
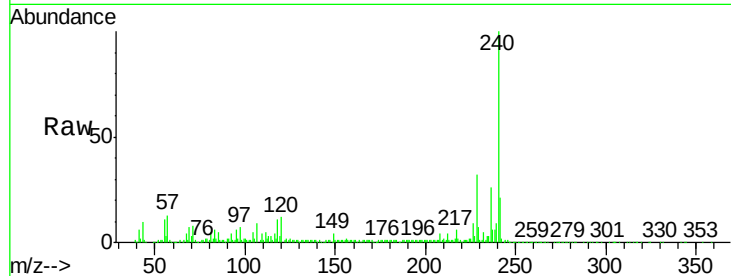
Instrument :

BNA_F

ClientSampleId :

S4-B010(0-2)

Tgt Ion:	240	Resp:	300236
Ion	Ratio	Lower	Upper
240	100		
120	12.2	9.5	14.3
236	26.2	20.6	31.0



#76

Benzidine

Concen: 7.06 ng

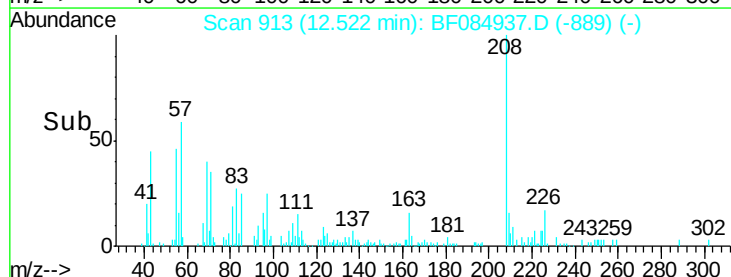
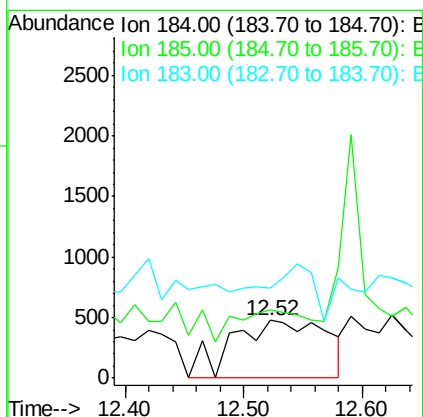
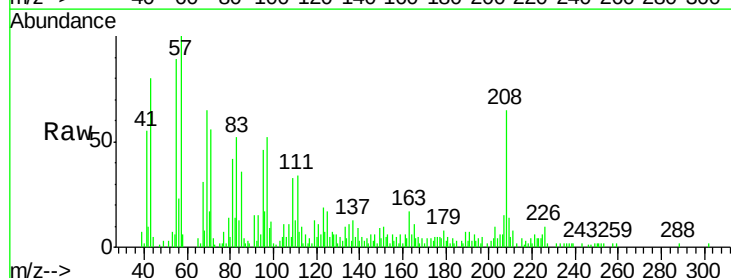
RT: 12.52 min Scan# 913

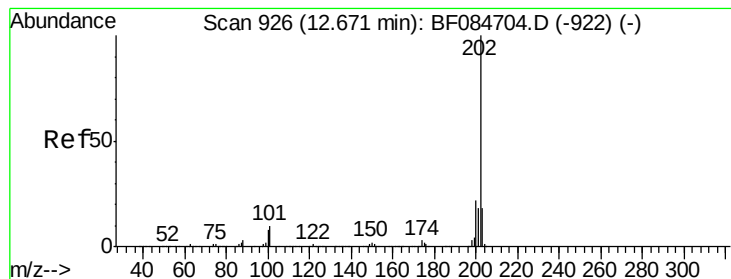
Delta R.T. -0.02 min

Lab File: BF084937.D

Acq: 8 Feb 2016 19:15

Tgt Ion:	184	Resp:	2678
Ion	Ratio	Lower	Upper
184	100		
185	118.7	12.2	18.2#
183	156.7	9.8	14.8#





#77

Pyrene

Concen: 24.30 ng

RT: 12.59 min Scan# 919

Delta R.T. -0.05 min

Lab File: BF084937.D

Acq: 8 Feb 2016 19:15

Instrument :

BNA_F

ClientSampleId :

S4-B010(0-2)

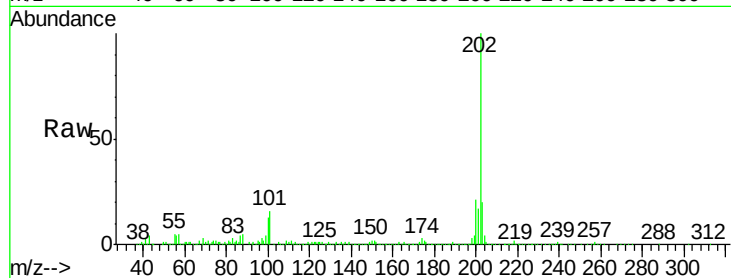
Tgt Ion:202 Resp: 558500

Ion Ratio Lower Upper

202 100

200 21.0 17.2 25.8

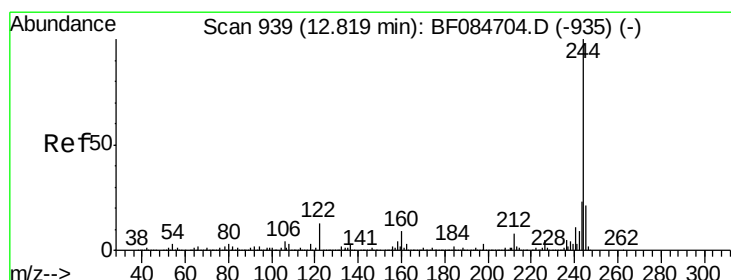
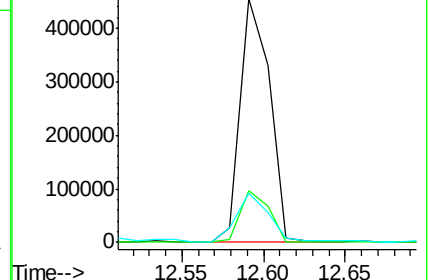
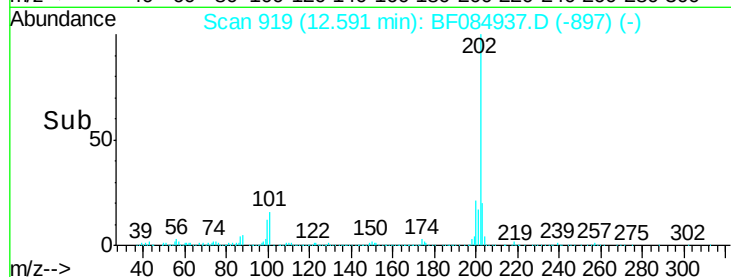
203 19.9 14.3 21.5



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: 68.08 ng

RT: 12.75 min Scan# 933

Delta R.T. -0.05 min

Lab File: BF084937.D

Acq: 8 Feb 2016 19:15

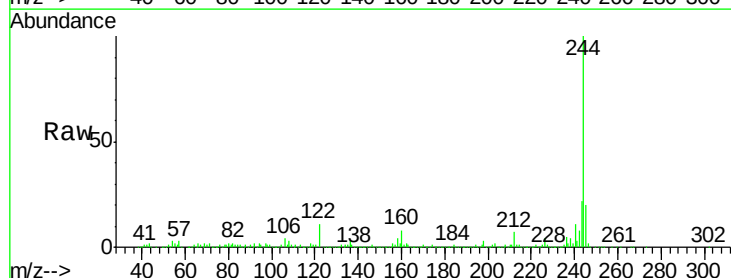
Tgt Ion:244 Resp: 902063

Ion Ratio Lower Upper

244 100

212 7.4 5.7 8.5

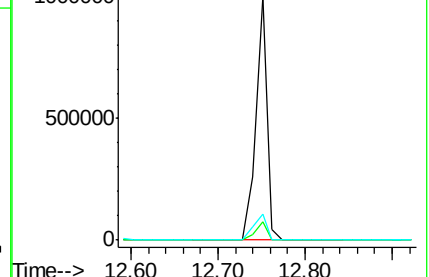
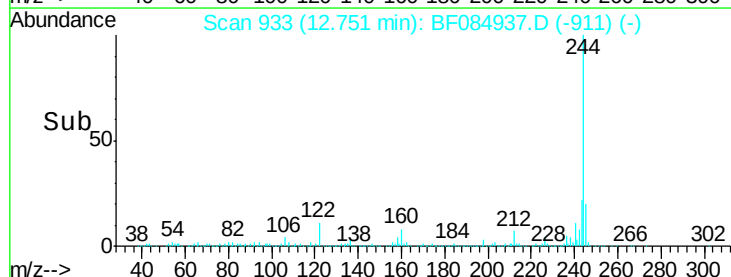
122 10.9 7.4 11.0

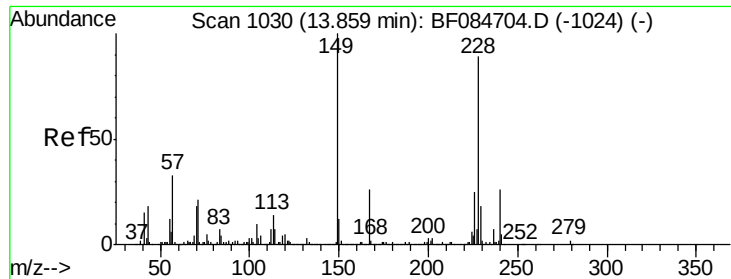


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 14.70 ng

RT: 13.78 min Scan# 1023

Delta R.T. -0.05 min

Lab File: BF084937.D

Acq: 8 Feb 2016 19:15

Instrument :

BNA_F

ClientSampleId :

S4-B010(0-2)

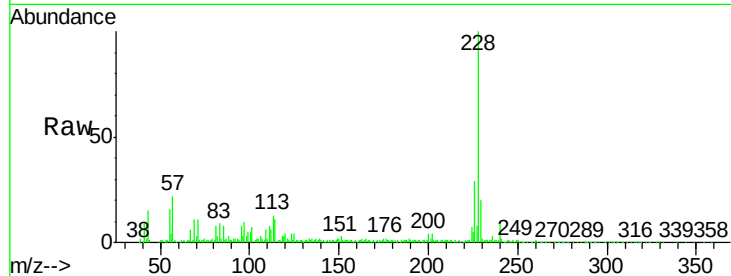
Tgt Ion:228 Resp: 273940

Ion Ratio Lower Upper

228 100

226 28.5 21.8 32.6

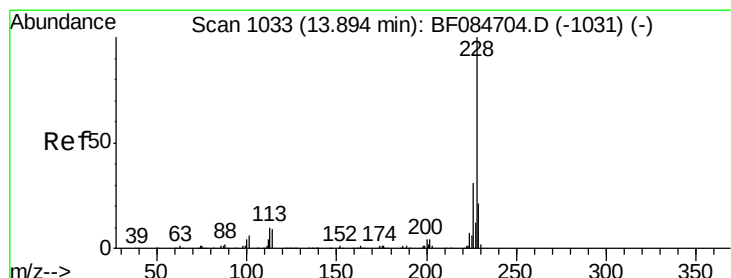
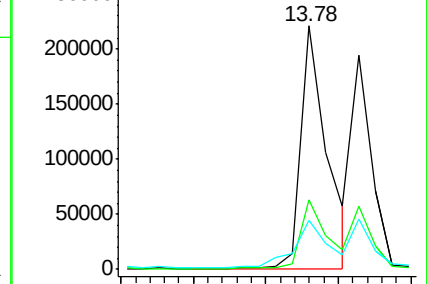
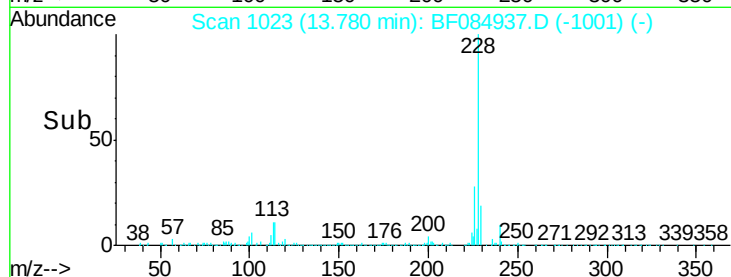
229 20.3 15.8 23.8



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



#82

Chrysene

Concen: 15.16 ng

RT: 13.78 min Scan# 1023

Delta R.T. -0.08 min

Lab File: BF084937.D

Acq: 8 Feb 2016 19:15

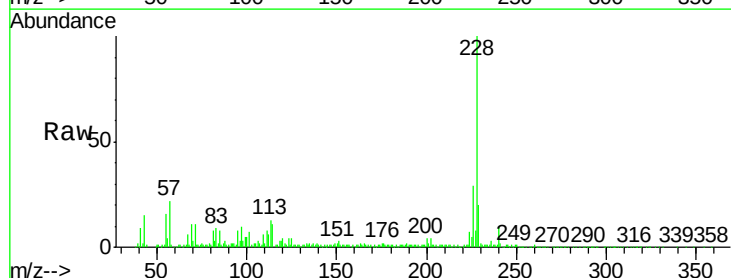
Tgt Ion:228 Resp: 273940

Ion Ratio Lower Upper

228 100

226 28.5 24.3 36.5

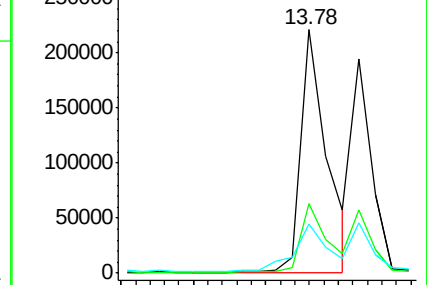
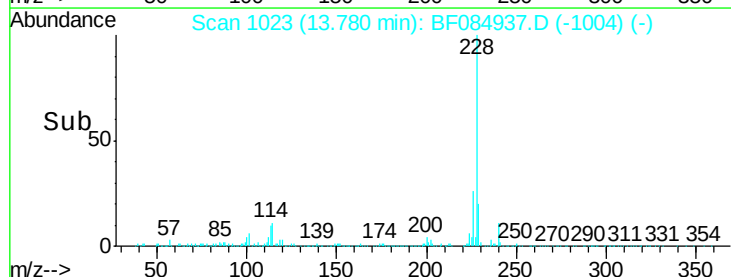
229 20.3 16.1 24.1

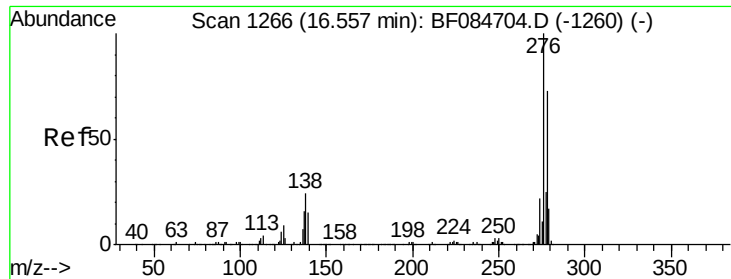


Abundance Ion 228.00 (227.70 to 228.70): E

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: 7.58 ng

RT: 16.43 min Scan# 1255

Delta R.T. -0.07 min

Lab File: BF084937.D

Acq: 8 Feb 2016 19:15

Instrument :

BNA_F

ClientSampleId :

S4-B010(0-2)

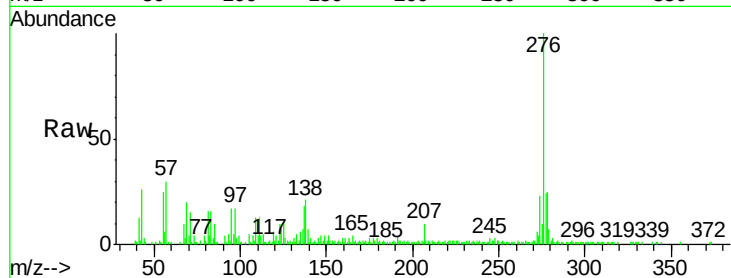
Tgt Ion:276 Resp: 107754

Ion Ratio Lower Upper

276 100

138 22.7 20.6 30.8

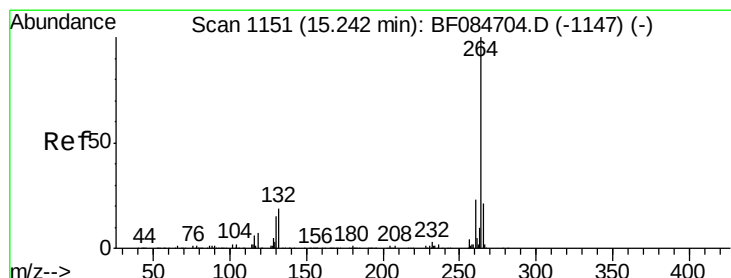
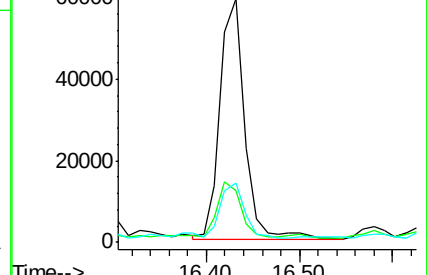
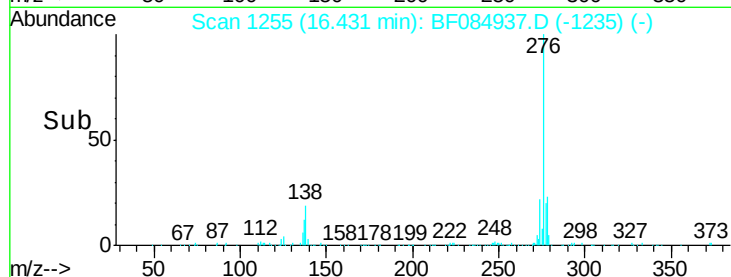
277 25.4 20.1 30.1



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: 15.16 min Scan# 1144

Delta R.T. -0.05 min

Lab File: BF084937.D

Acq: 8 Feb 2016 19:15

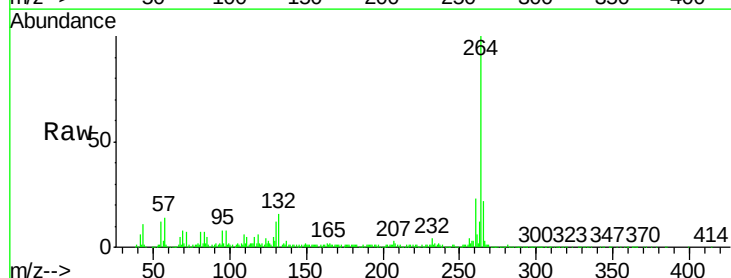
Tgt Ion:264 Resp: 274979

Ion Ratio Lower Upper

264 100

260 23.2 19.4 29.2

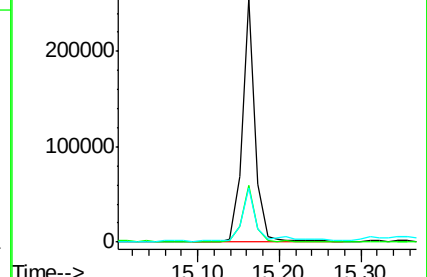
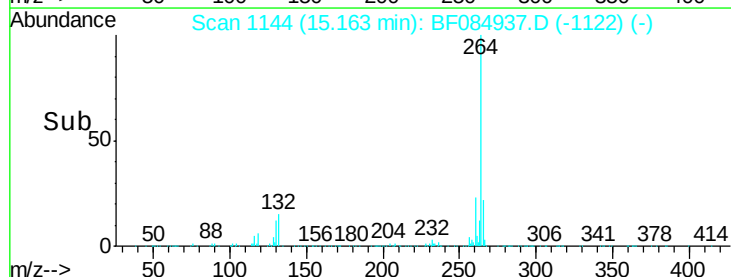
265 22.3 17.8 26.6

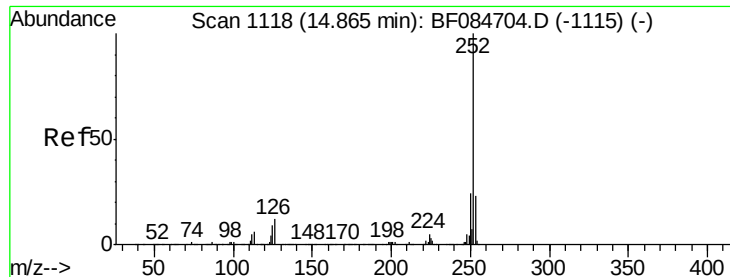


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 18.55 ng

RT: 14.79 min Scan# 1111

Delta R.T. -0.05 min

Lab File: BF084937.D

Acq: 8 Feb 2016 19:15

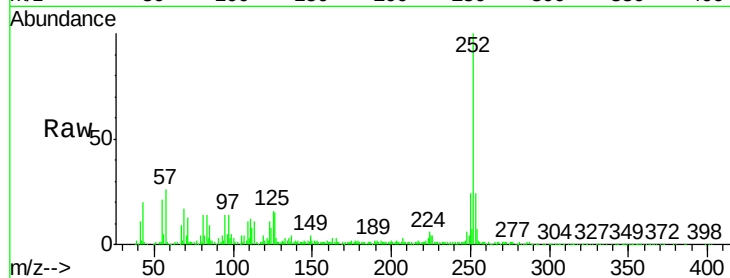
Instrument :

BNA_F

ClientSampleId :

S4-B010(0-2)

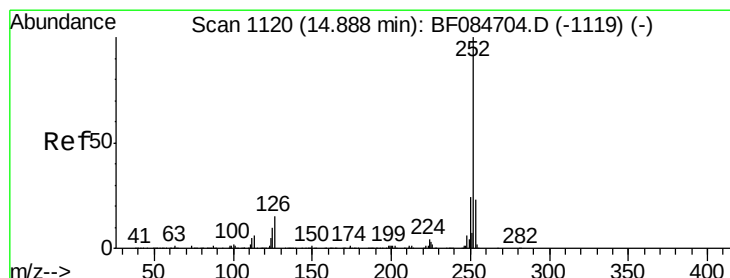
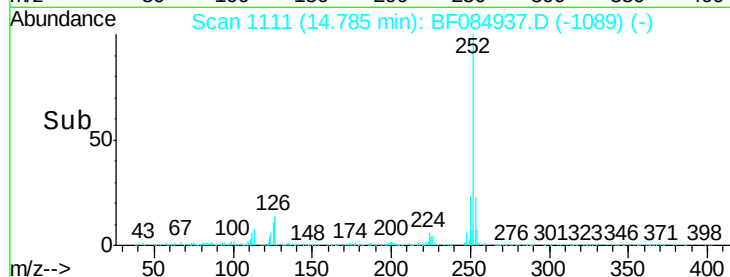
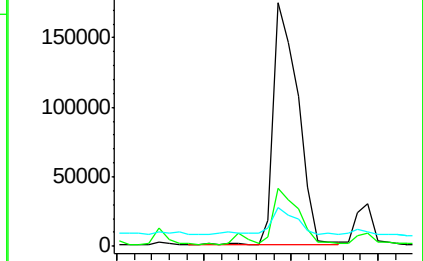
Tgt Ion:	252	Resp:	342781
Ion Ratio	Lower	Upper	
252	100		
253	23.6	17.3	25.9
125	16.0	6.5	9.7#



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



#88

Benzo(k)fluoranthene

Concen: 22.44 ng

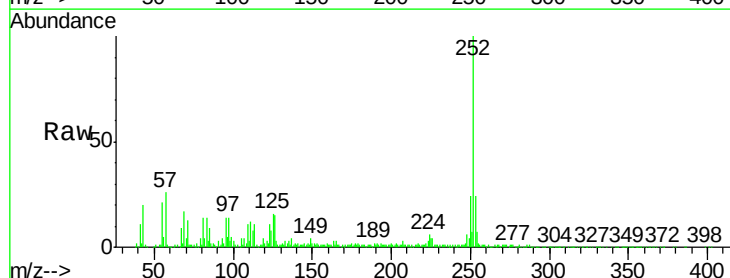
RT: 14.79 min Scan# 1111

Delta R.T. -0.07 min

Lab File: BF084937.D

Acq: 8 Feb 2016 19:15

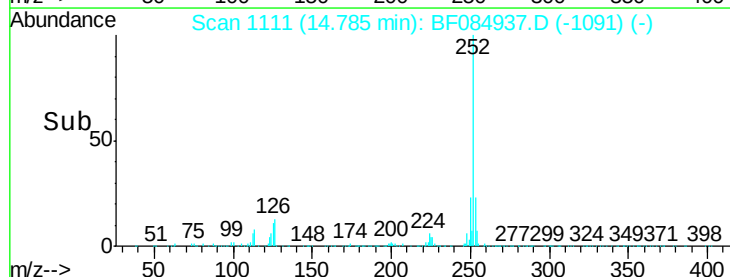
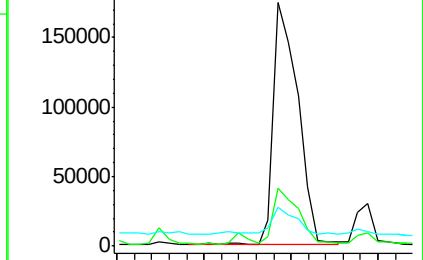
Tgt Ion:	252	Resp:	342781
Ion Ratio	Lower	Upper	
252	100		
253	23.6	18.1	27.1
125	16.0	9.0	13.6#

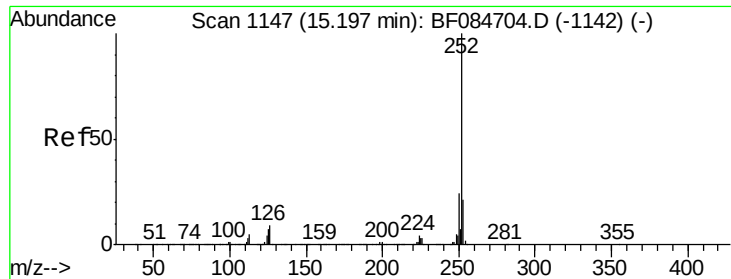


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 12.30 ng

RT: 15.11 min Scan# 1139

Delta R.T. -0.05 min

Lab File: BF084937.D

Acq: 8 Feb 2016 19:15

Instrument :

BNA_F

ClientSampleId :

S4-B010(0-2)

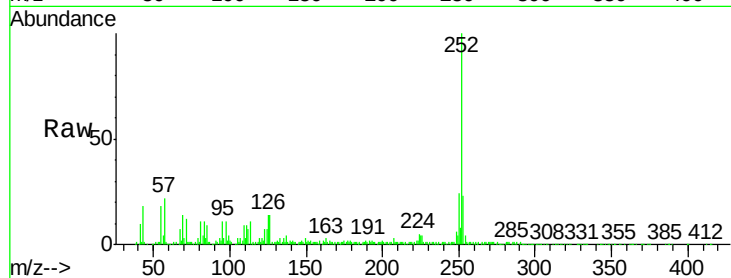
Tgt Ion:252 Resp: 193693

Ion Ratio Lower Upper

252 100

253 23.4 17.3 25.9

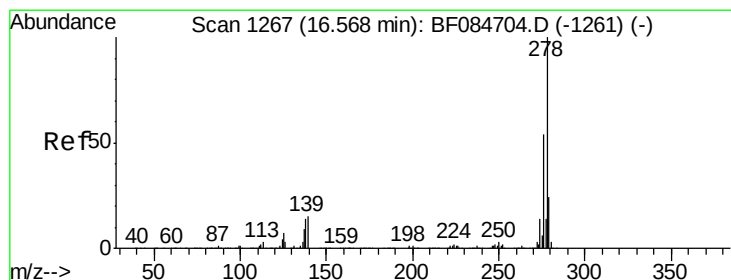
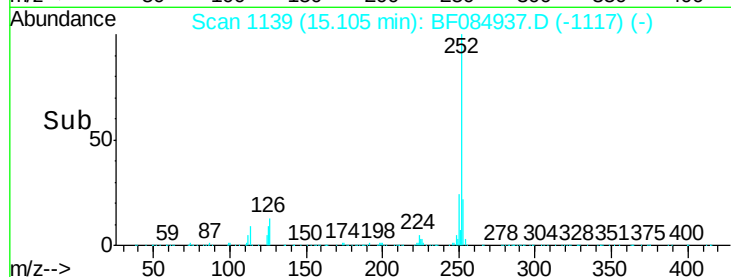
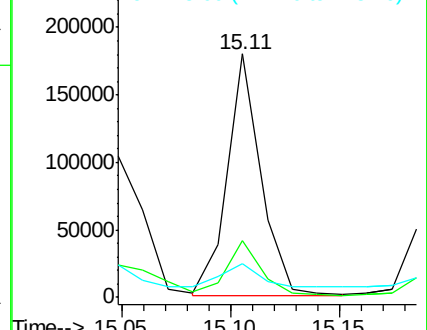
125 13.8 7.0 10.4#



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: 2.52 ng

RT: 16.43 min Scan# 1255

Delta R.T. -0.08 min

Lab File: BF084937.D

Acq: 8 Feb 2016 19:15

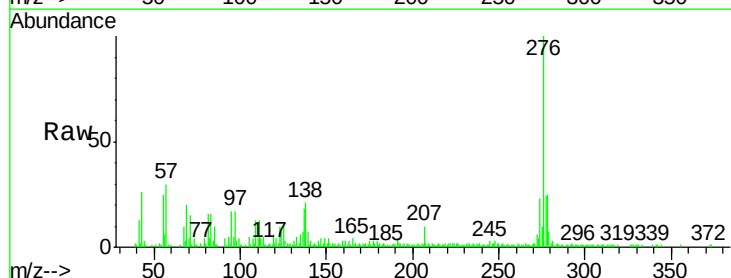
Tgt Ion:278 Resp: 33403

Ion Ratio Lower Upper

278 100

139 28.4 15.0 22.4#

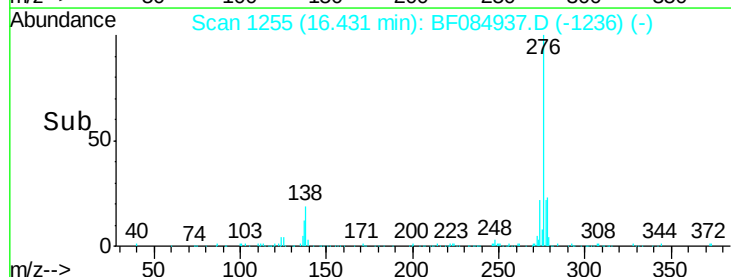
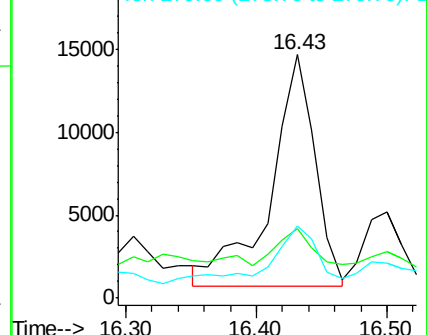
279 29.6 18.9 28.3#

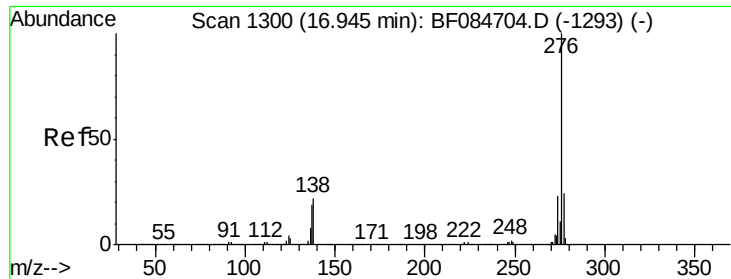


Abundance Ion 278.00 (277.70 to 278.70): E

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: 7.60 ng

RT: 16.81 min Scan# 1288

Delta R.T. -0.08 min

Lab File: BF084937.D

Acq: 8 Feb 2016 19:15

Instrument :

BNA_F

ClientSampleId :

S4-B010(0-2)

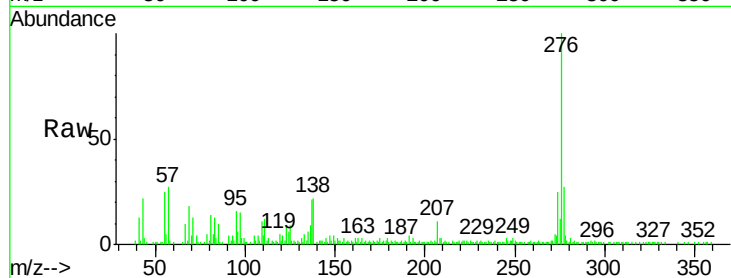
Tgt Ion:276 Resp: 101510

Ion Ratio Lower Upper

276 100

277 26.7 18.8 28.2

138 21.8 17.8 26.6



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

