

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF020616\
 Data File : BF084923.D
 Acq On : 6 Feb 2016 20:31
 Operator : SJ/IZ
 Sample : H1320-11DL 10X
 Misc :
 ALS Vial : 65 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 S4-B013(6-8)DL

Quant Time: Feb 08 01:25:46 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

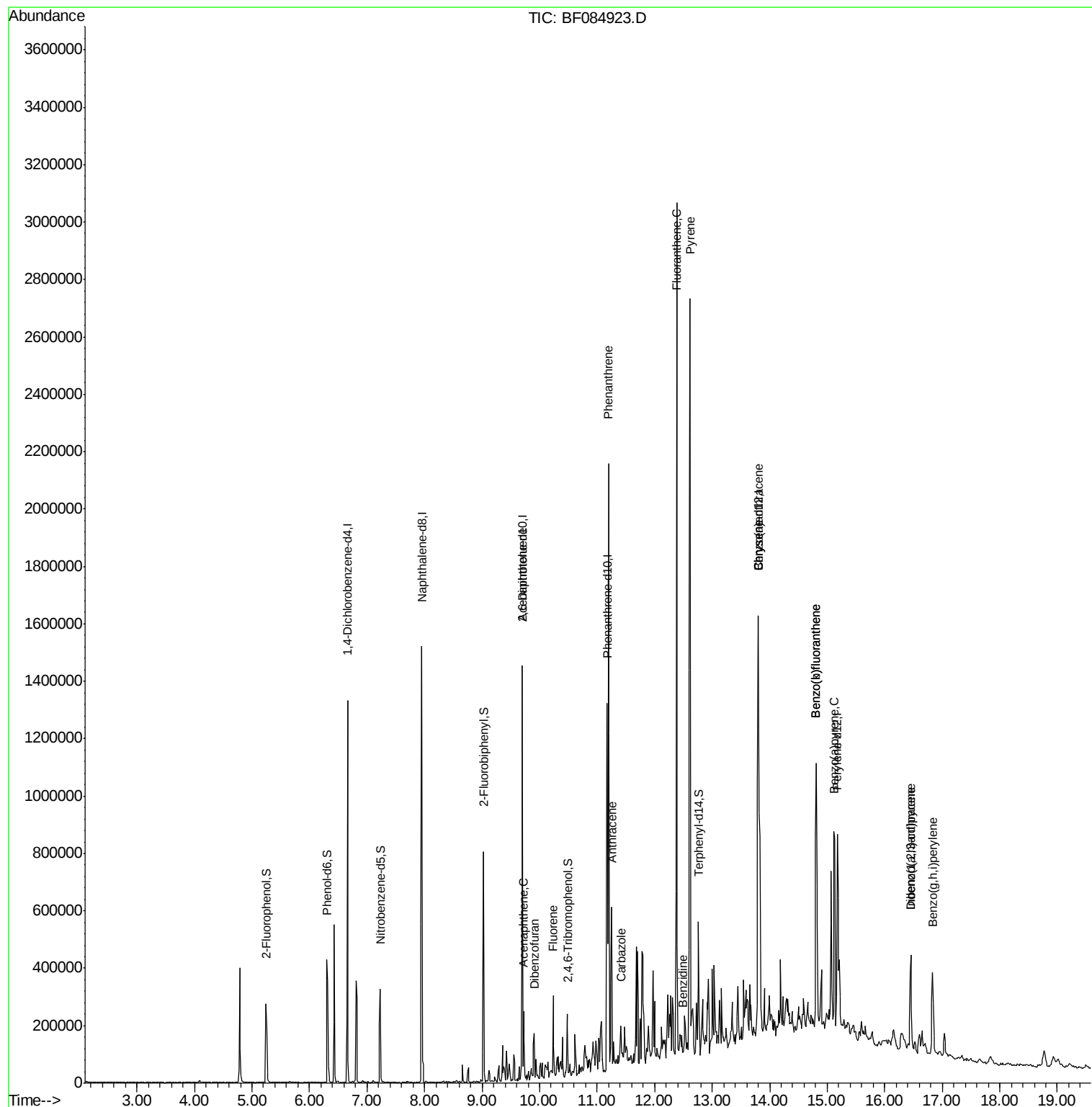
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.66	152	183370	20.00	ng	-0.02
21) Naphthalene-d8	7.95	136	727065	20.00	ng	-0.02
38) Acenaphthene-d10	9.70	164	306469	20.00	ng	-0.03
63) Phenanthrene-d10	11.17	188	474435	20.00	ng	-0.03
75) Chrysene-d12	13.80	240	323323	20.00	ng	-0.03
86) Perylene-d12	15.17	264	339038	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.24	112	107502	9.13	ng	-0.03
7) Phenol-d6	6.30	99	213561	14.63	ng	-0.03
23) Nitrobenzene-d5	7.23	82	128582	9.96	ng	-0.03
41) 2,4,6-Tribromophenol	10.49	330	13319	4.17	ng	-0.03
44) 2-Fluorobiphenyl	9.02	172	227343	8.73	ng	-0.03
78) Terphenyl-d14	12.76	244	134163	9.40	ng	-0.03
Target Compounds						Qvalue
50) 2,6-Dinitrotoluene	9.70	165	42723	8.38	ng	# 38
51) Acenaphthene	9.72	154	65277	3.28	ng	97
54) Dibenzofuran	9.90	168	64608	2.66	ng	93
57) Fluorene	10.24	166	77624	3.82	ng	# 99
70) Phenanthrene	11.20	178	1000524	38.02	ng	98
71) Anthracene	11.25	178	266292	10.04	ng	97
72) Carbazole	11.41	167	52135	2.25	ng	97
74) Fluoranthene	12.39	202	1148383	43.12	ng	98
76) Benzidine	12.50	184	470	6.92	ng	# 1
77) Pyrene	12.61	202	1192259	48.16	ng	100
80) Benzo(a)anthracene	13.80	228	503744	25.10	ng	97
82) Chrysene	13.80	228	503744	25.89	ng	96
85) Indeno(1,2,3-cd)pyrene	16.45	276	228135	14.89	ng	95
87) Benzo(b)fluoranthene	14.81	252	683625	30.01	ng	# 98
88) Benzo(k)fluoranthene	14.81	252	683625	36.30	ng	98
89) Benzo(a)pyrene	15.13	252	411175	21.18	ng	96
90) Dibenzo(a,h)anthracene	16.45	278	63601	3.89	ng	95
91) Benzo(g,h,i)perylene	16.83	276	214875	13.06	ng	98

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.66 min Scan# 400

Delta R.T. -0.02 min

Lab File: BF084923.D

Acq: 6 Feb 2016 20:31

Instrument :

BNA_F

ClientSampleId :

S4-B013(6-8)DL

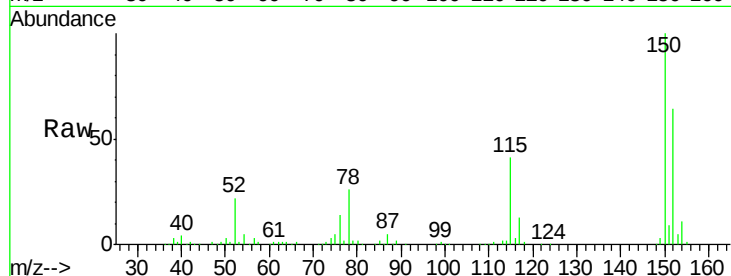
Tgt Ion:152 Resp: 183370

Ion Ratio Lower Upper

152 100

150 155.8 123.0 184.4

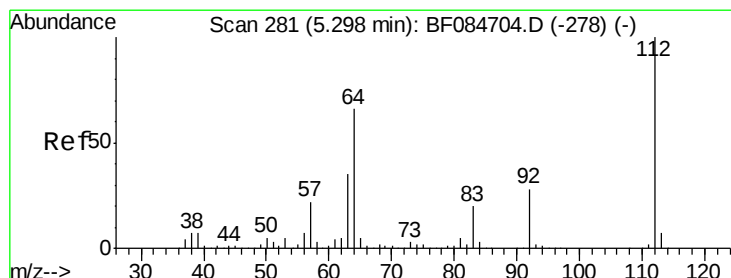
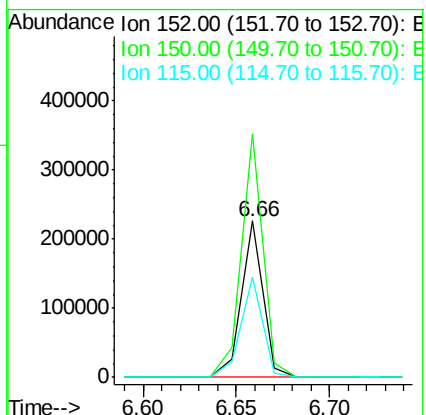
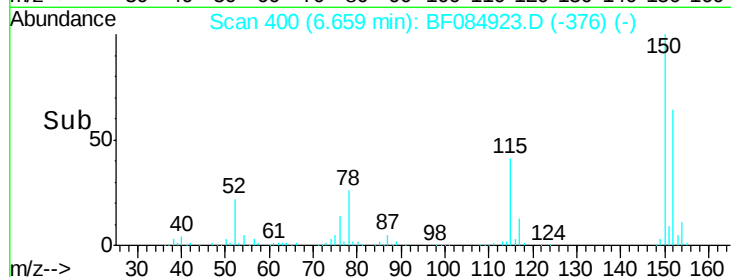
115 64.0 51.4 77.2



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: 9.13 ng

RT: 5.24 min Scan# 276

Delta R.T. -0.03 min

Lab File: BF084923.D

Acq: 6 Feb 2016 20:31

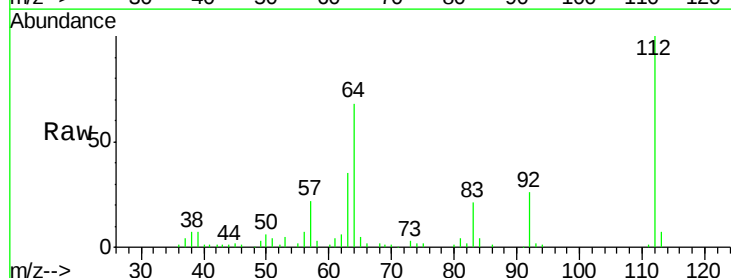
Tgt Ion:112 Resp: 107502

Ion Ratio Lower Upper

112 100

64 68.1 36.6 55.0#

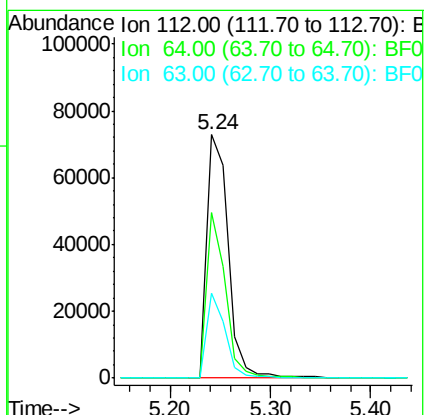
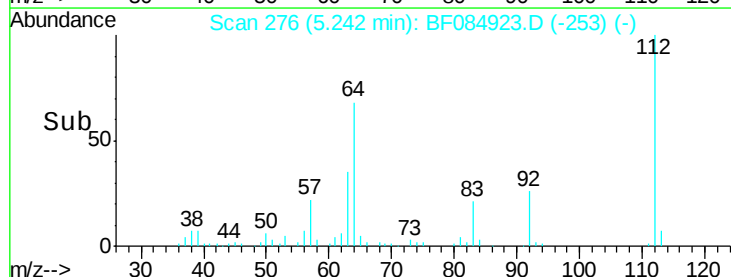
63 34.6 19.4 29.0#



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: 14.63 ng

RT: 6.30 min Scan# 369

Delta R.T. -0.03 min

Lab File: BF084923.D

Acq: 6 Feb 2016 20:31

Instrument :

BNA_F

ClientSampleId :

S4-B013(6-8)DL

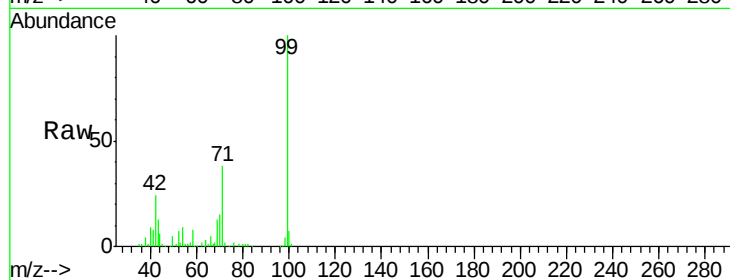
Tgt Ion: 99 Resp: 213561

Ion Ratio Lower Upper

99 100

42 24.4 12.8 19.2#

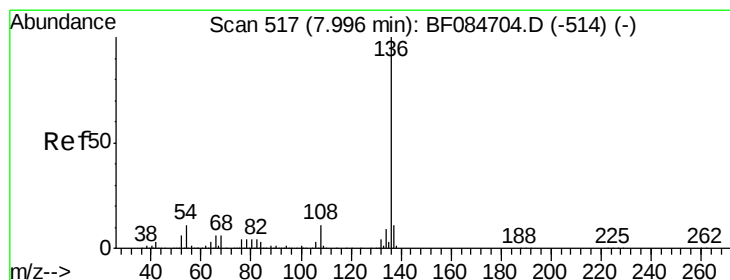
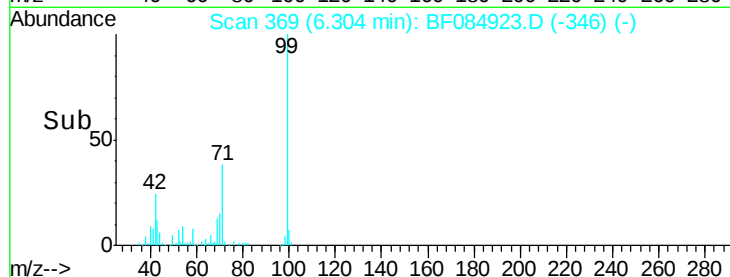
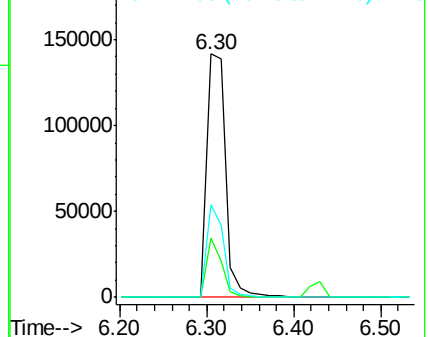
71 37.9 30.9 46.3



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.95 min Scan# 513

Delta R.T. -0.02 min

Lab File: BF084923.D

Acq: 6 Feb 2016 20:31

Tgt Ion: 136 Resp: 727065

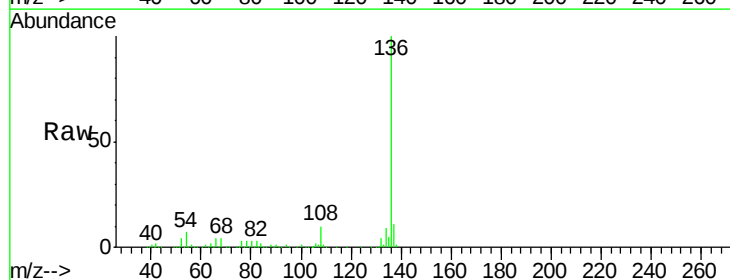
Ion Ratio Lower Upper

136 100

137 11.3 8.7 13.1

54 6.7 5.8 8.8

68 3.9 4.2 6.2#

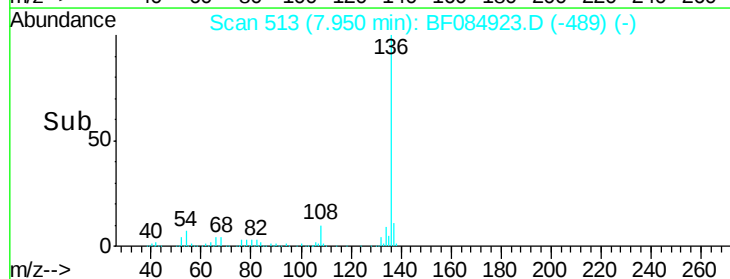
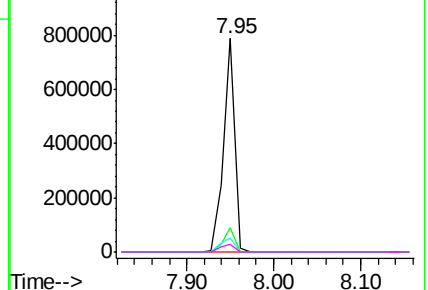


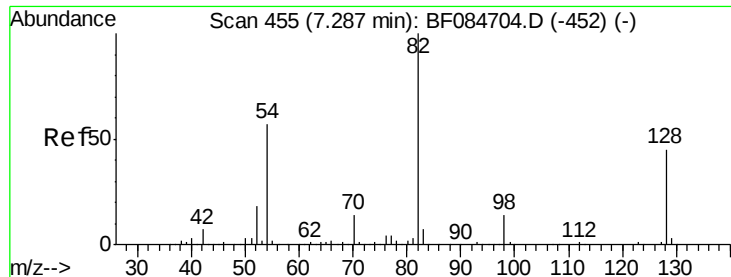
Abundance Ion 136.00 (135.70 to 136.70): E

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: 9.96 ng

RT: 7.23 min Scan# 450

Delta R.T. -0.03 min

Lab File: BF084923.D

Acq: 6 Feb 2016 20:31

Instrument :

BNA_F

ClientSampleId :

S4-B013(6-8)DL

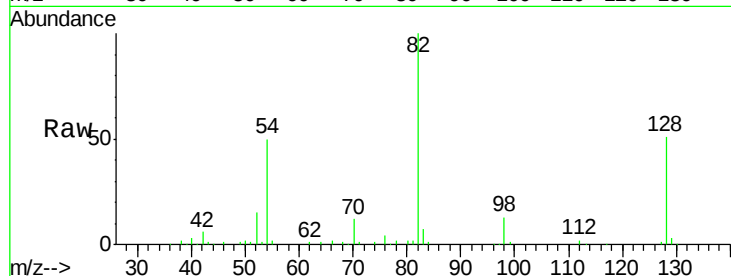
Tgt Ion: 82 Resp: 128582

Ion Ratio Lower Upper

82 100

128 50.8 34.6 51.8

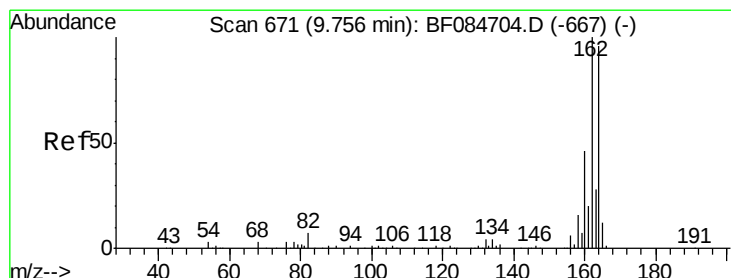
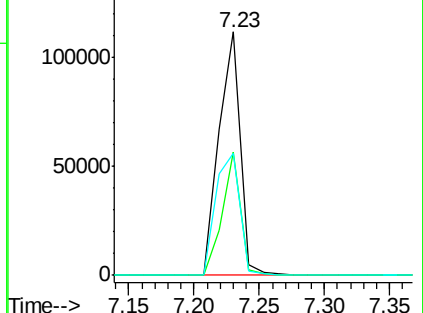
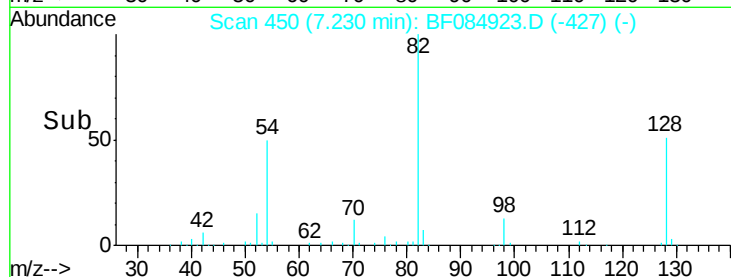
54 50.3 38.4 57.6



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): B

Ion 54.00 (53.70 to 54.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.70 min Scan# 666

Delta R.T. -0.03 min

Lab File: BF084923.D

Acq: 6 Feb 2016 20:31

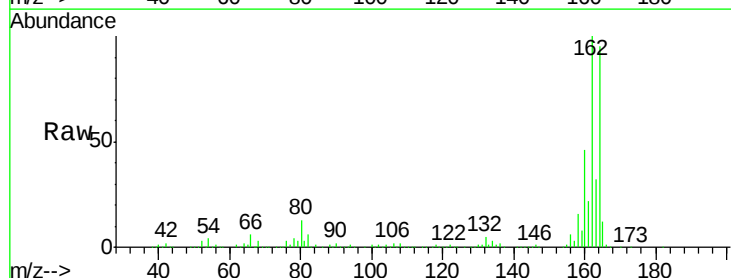
Tgt Ion: 164 Resp: 306469

Ion Ratio Lower Upper

164 100

162 105.4 85.1 127.7

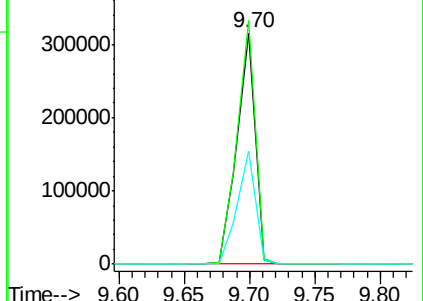
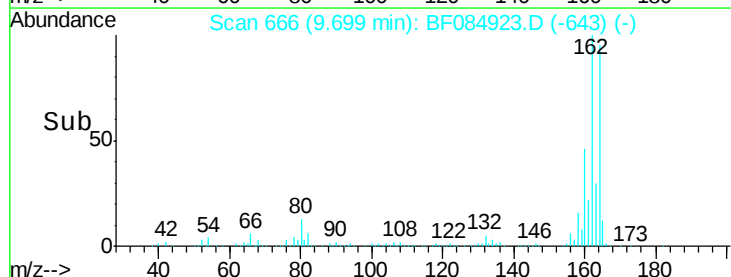
160 48.9 37.5 56.3



Abundance Ion 164.00 (163.70 to 164.70): B

Ion 162.00 (161.70 to 162.70): B

Ion 160.00 (159.70 to 160.70): B

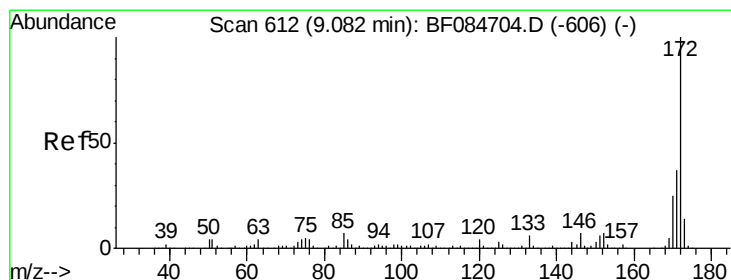
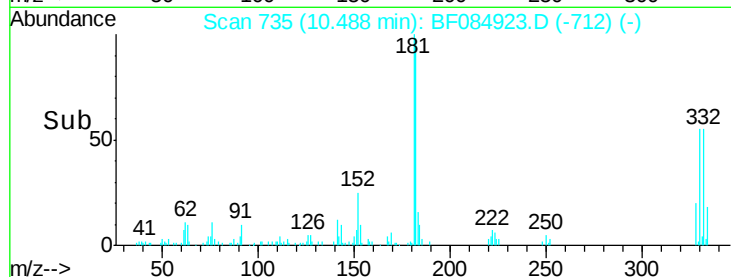
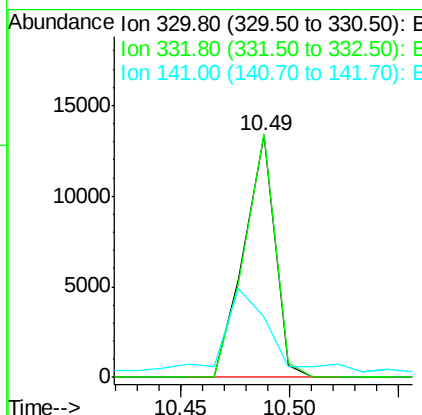
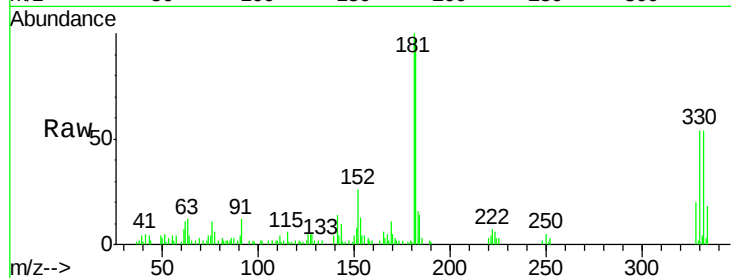




#41
 2,4,6-Tribromophenol
 Concen: 4.17 ng
 RT: 10.49 min Scan# 735
 Delta R.T. -0.03 min
 Lab File: BF084923.D
 Acq: 6 Feb 2016 20:31

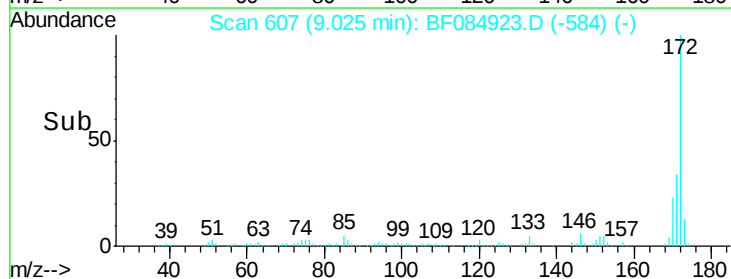
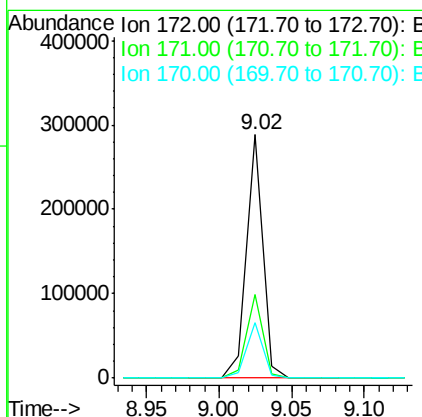
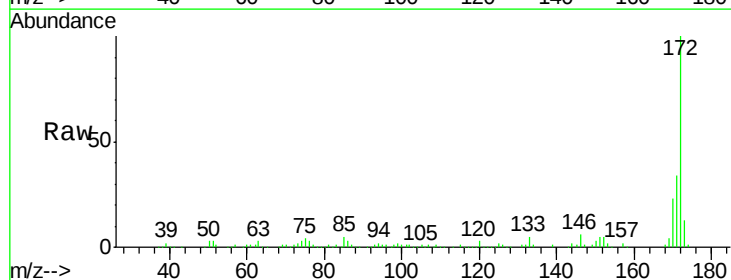
Instrument :
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 S4-B013(6-8)DL

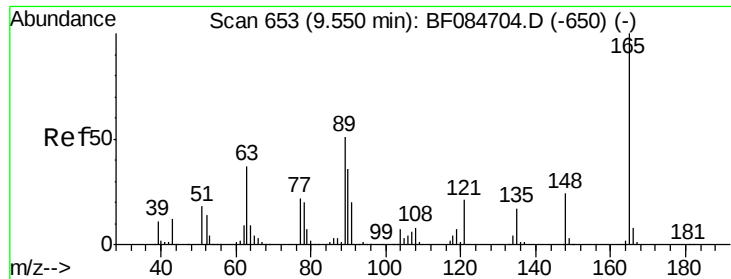
Tgt Ion:330 Resp: 13319
 Ion Ratio Lower Upper
 330 100
 332 99.8 76.6 114.8
 141 69.1 27.8 41.6#



#44
 2-Fluorobiphenyl
 Concen: 8.73 ng
 RT: 9.02 min Scan# 607
 Delta R.T. -0.03 min
 Lab File: BF084923.D
 Acq: 6 Feb 2016 20:31

Tgt Ion:172 Resp: 227343
 Ion Ratio Lower Upper
 172 100
 171 34.3 28.9 43.3
 170 22.9 18.6 27.8

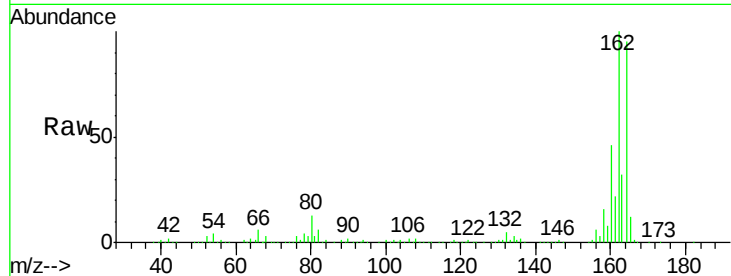




#50
2,6-Dinitrotoluene
Concen: 8.38 ng
RT: 9.70 min Scan# 666
Delta R.T. 0.17 min
Lab File: BF084923.D
Acq: 6 Feb 2016 20:31

Instrument :
BNA_F
ClientSampleId :
S4-B013(6-8)DL

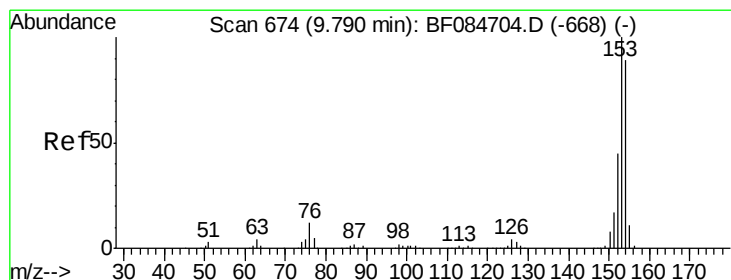
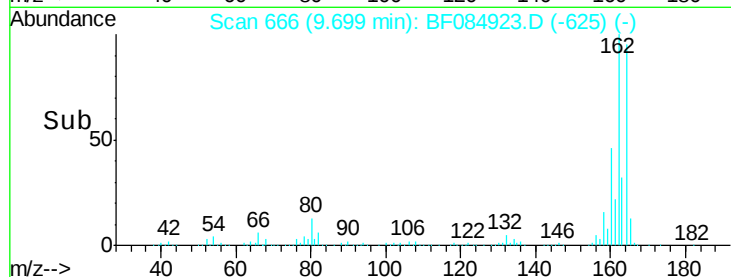
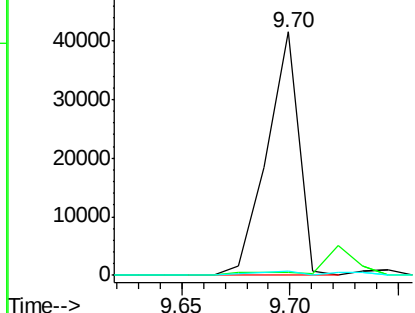
Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.2	28.8	43.2#
89	1.9	35.1	52.7#



Abundance Ion 165.00 (164.70 to 165.70): E

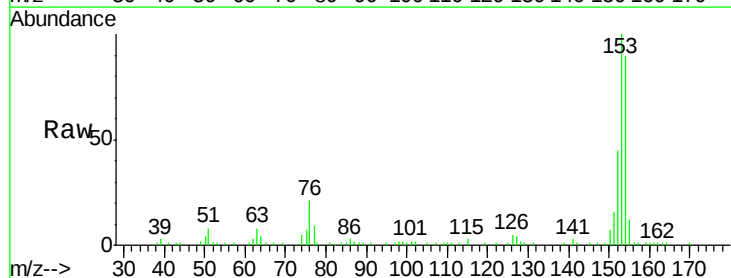
Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0



#51
Acenaphthene
Concen: 3.28 ng
RT: 9.72 min Scan# 668
Delta R.T. -0.05 min
Lab File: BF084923.D
Acq: 6 Feb 2016 20:31

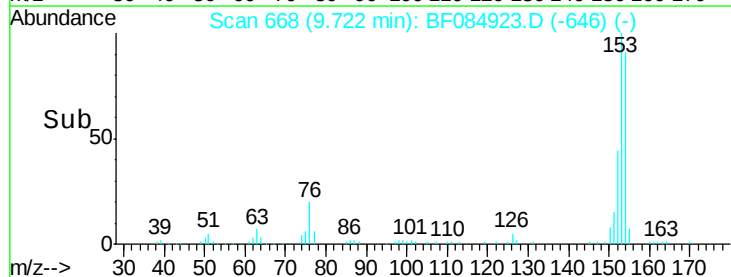
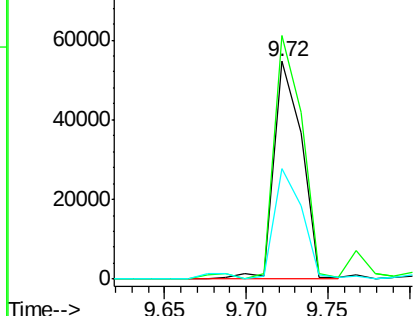
Tgt Ion	Ratio	Lower	Upper
154	100		
153	111.7	91.5	137.3
152	50.5	43.0	64.6

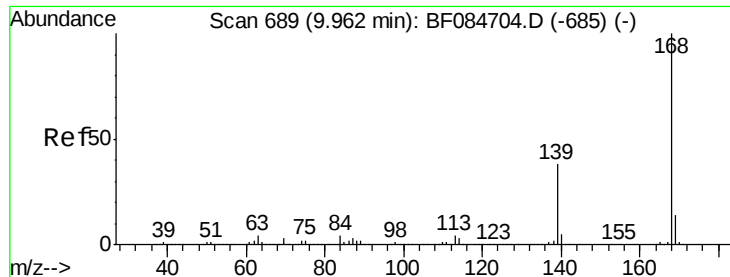


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

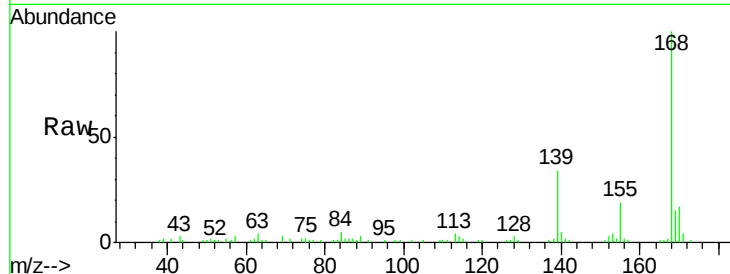




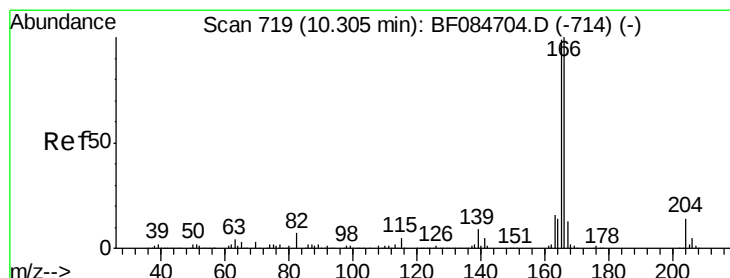
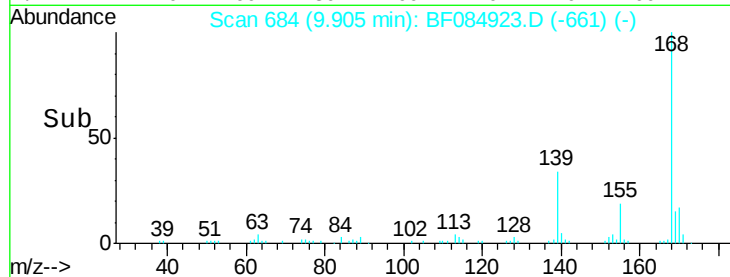
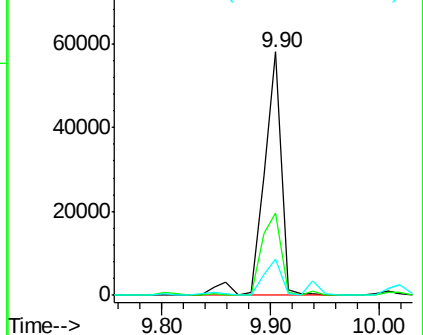
#54
Dibenzofuran
Concen: 2.66 ng
RT: 9.90 min Scan# 684
Delta R.T. -0.03 min
Lab File: BF084923.D
Acq: 6 Feb 2016 20:31

Instrument :
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S4-B013(6-8)DL

Tgt Ion:168 Resp: 64608
Ion Ratio Lower Upper
168 100
139 33.8 30.5 45.7
169 14.9 10.4 15.6

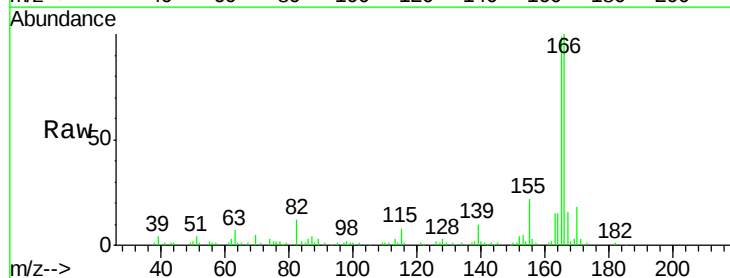


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

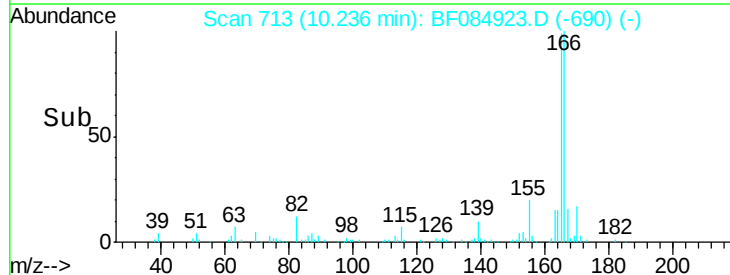
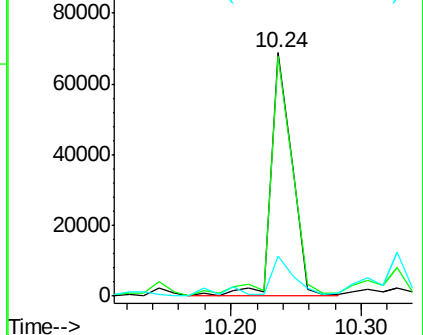


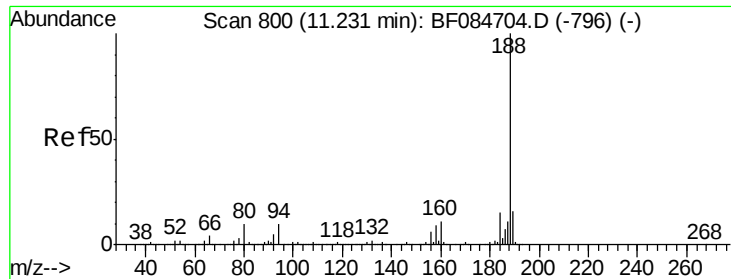
#57
Fluorene
Concen: 3.82 ng
RT: 10.24 min Scan# 713
Delta R.T. -0.03 min
Lab File: BF084923.D
Acq: 6 Feb 2016 20:31

Tgt Ion:166 Resp: 77624
Ion Ratio Lower Upper
166 100
165 98.5 79.1 118.7
167 16.3 10.4 15.6#



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E

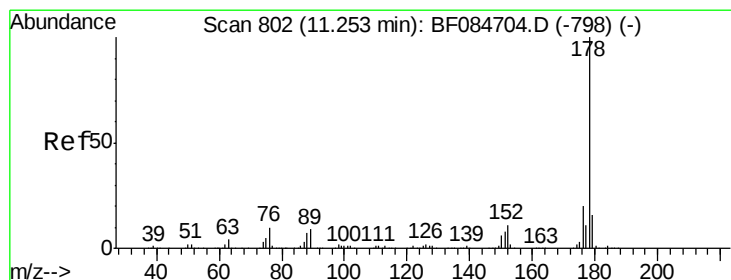
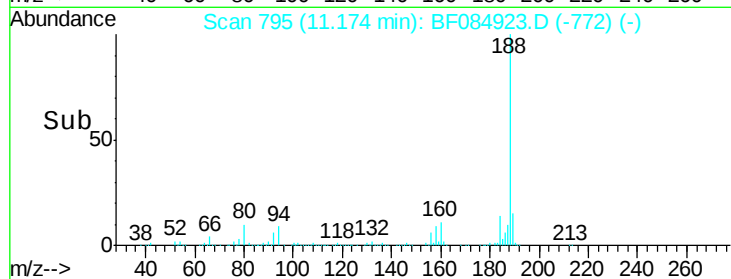
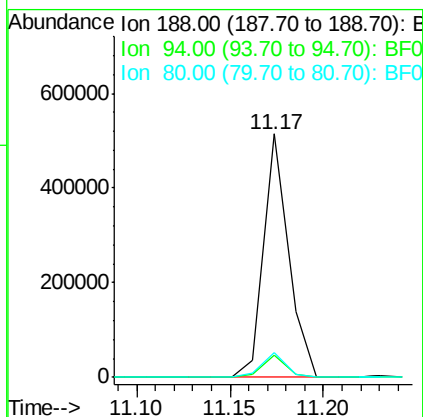
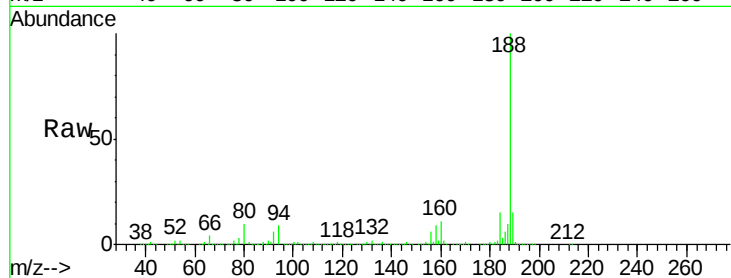




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.17 min Scan# 795
Delta R.T. -0.03 min
Lab File: BF084923.D
Acq: 6 Feb 2016 20:31

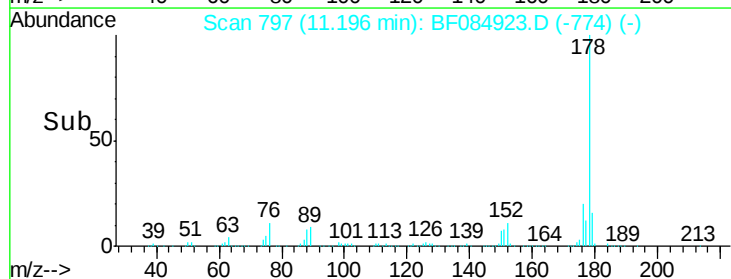
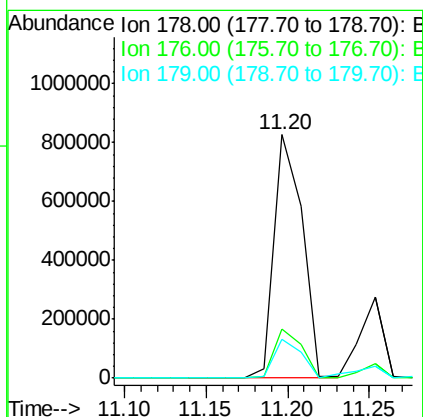
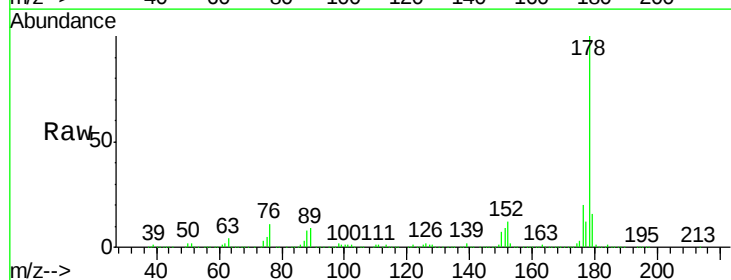
Instrument :
BNA_F
ClientSampleId :
S4-B013(6-8)DL

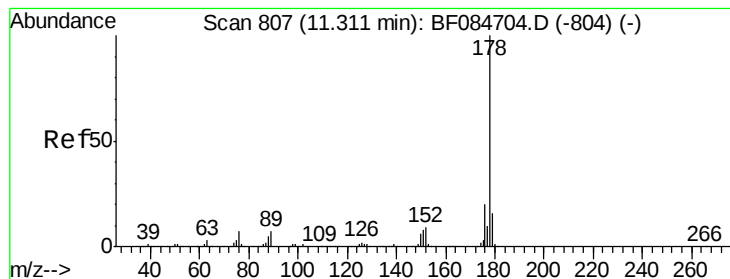
Tgt Ion:188 Resp: 474435
Ion Ratio Lower Upper
188 100
94 9.2 9.0 13.4
80 10.2 9.6 14.4



#70
Phenanthrene
Concen: 38.02 ng
RT: 11.20 min Scan# 797
Delta R.T. -0.03 min
Lab File: BF084923.D
Acq: 6 Feb 2016 20:31

Tgt Ion:178 Resp: 1000524
Ion Ratio Lower Upper
178 100
176 20.0 15.3 22.9
179 16.1 12.0 18.0





#71

Anthracene

Concen: 10.04 ng

RT: 11.25 min Scan# 802

Delta R.T. -0.03 min

Lab File: BF084923.D

Acq: 6 Feb 2016 20:31

Instrument :

BNA_F

ClientSampleId :

S4-B013(6-8)DL

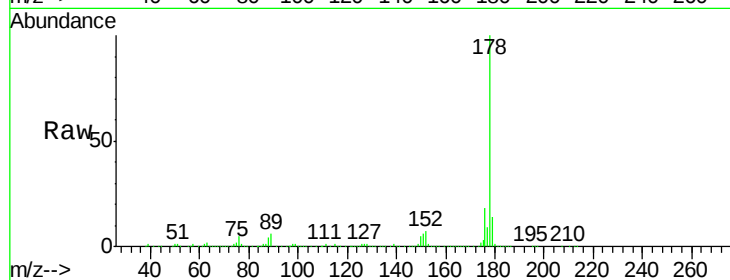
Tgt Ion:178 Resp: 266292

Ion Ratio Lower Upper

178 100

176 18.0 15.4 23.0

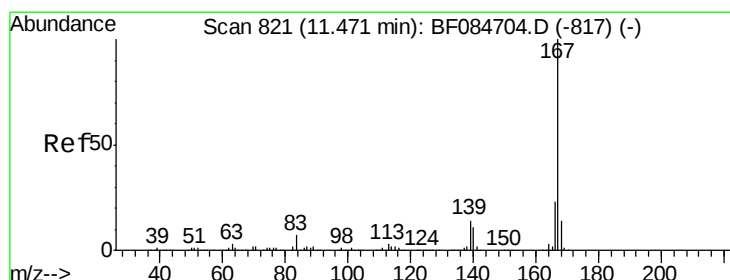
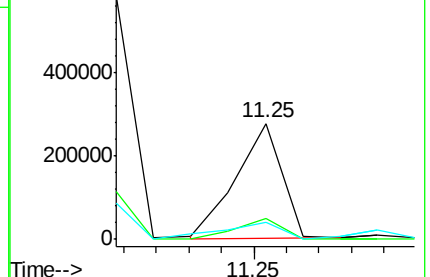
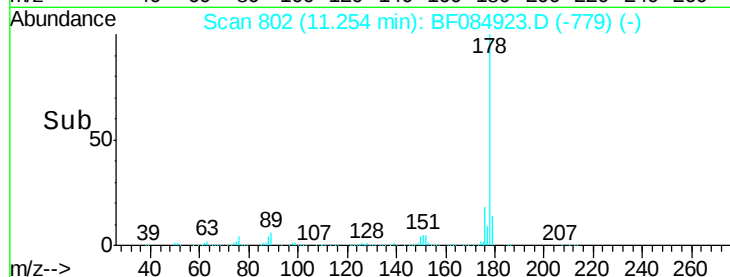
179 14.2 12.5 18.7



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



#72

Carbazole

Concen: 2.25 ng

RT: 11.41 min Scan# 816

Delta R.T. -0.03 min

Lab File: BF084923.D

Acq: 6 Feb 2016 20:31

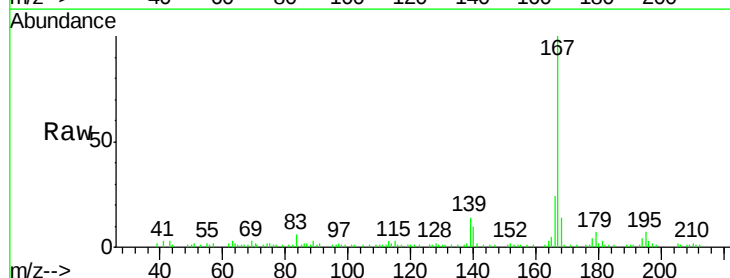
Tgt Ion:167 Resp: 52135

Ion Ratio Lower Upper

167 100

166 23.6 17.6 26.4

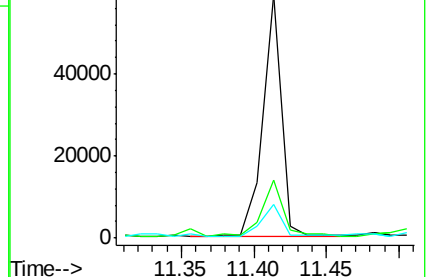
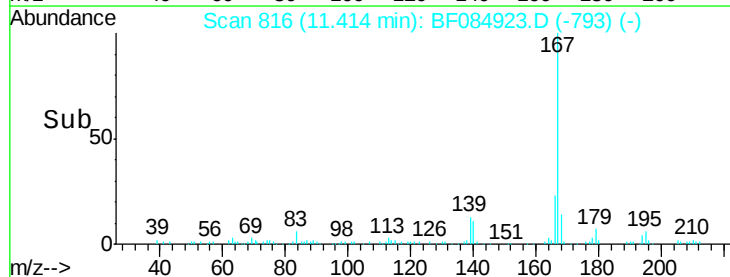
139 13.7 11.8 17.8

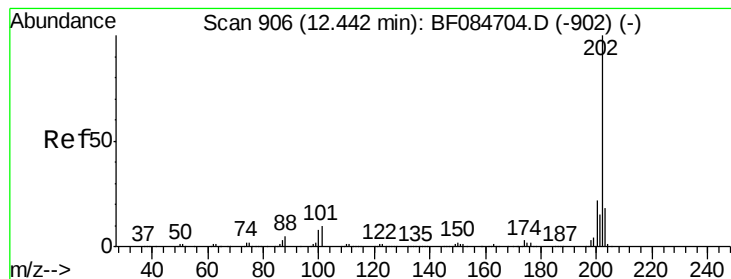


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 43.12 ng

RT: 12.39 min Scan# 901

Delta R.T. -0.03 min

Lab File: BF084923.D

Acq: 6 Feb 2016 20:31

Instrument :

BNA_F

ClientSampleId :

S4-B013(6-8)DL

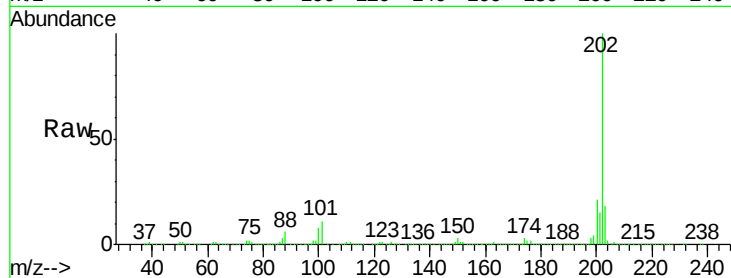
Tgt Ion:202 Resp: 1148383

Ion Ratio Lower Upper

202 100

101 11.4 0.0 32.8

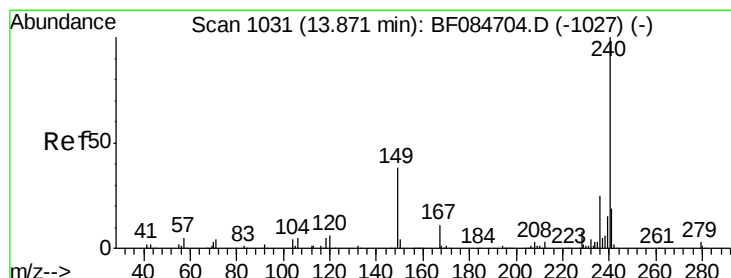
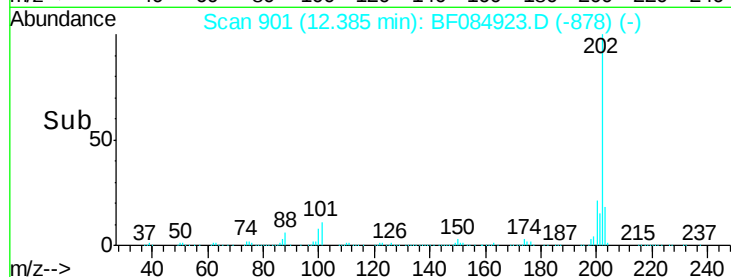
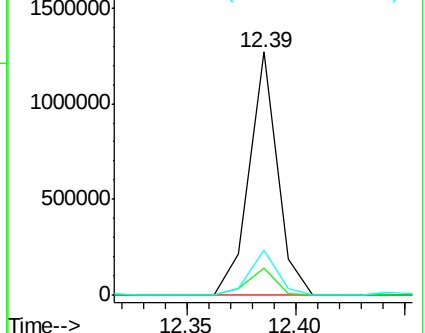
203 18.4 0.0 37.9



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: 13.80 min Scan# 1025

Delta R.T. -0.03 min

Lab File: BF084923.D

Acq: 6 Feb 2016 20:31

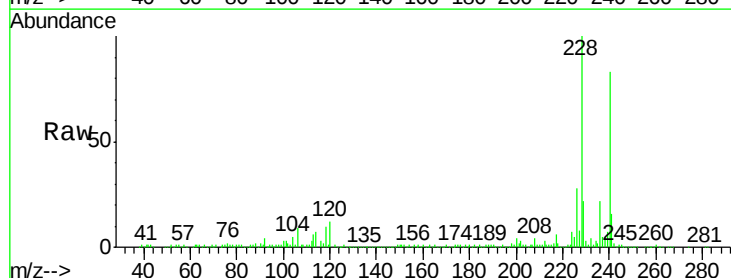
Tgt Ion:240 Resp: 323323

Ion Ratio Lower Upper

240 100

120 14.4 9.5 14.3#

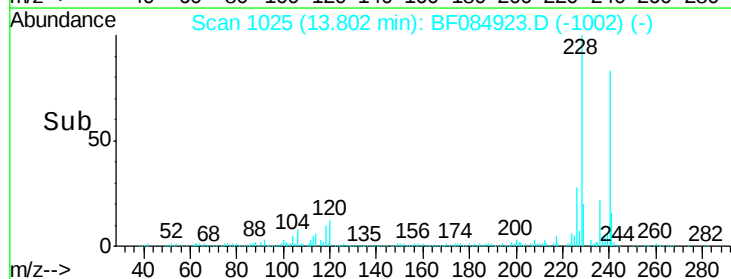
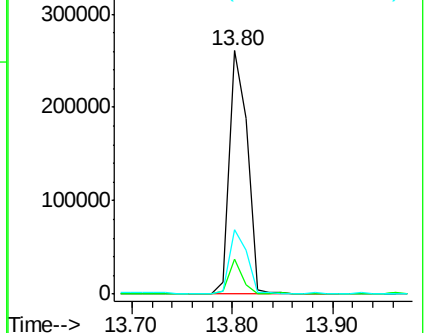
236 26.3 20.6 31.0

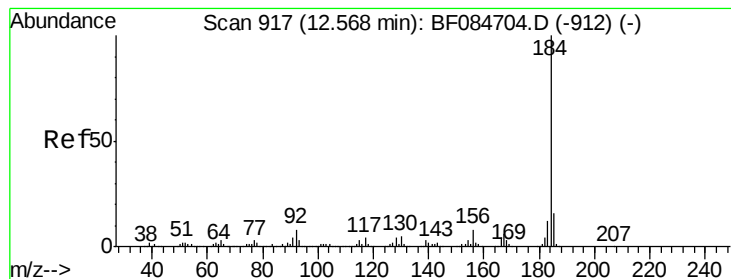


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#76

Benzidine

Concen: 6.92 ng

RT: 12.50 min Scan# 911

Delta R.T. -0.05 min

Lab File: BF084923.D

Acq: 6 Feb 2016 20:31

Instrument :

BNA_F

ClientSampleId :

S4-B013(6-8)DL

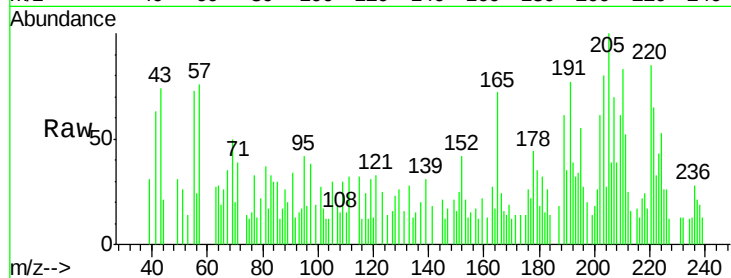
Tgt Ion:184 Resp: 470

Ion Ratio Lower Upper

184 100

185 0.0 12.2 18.2#

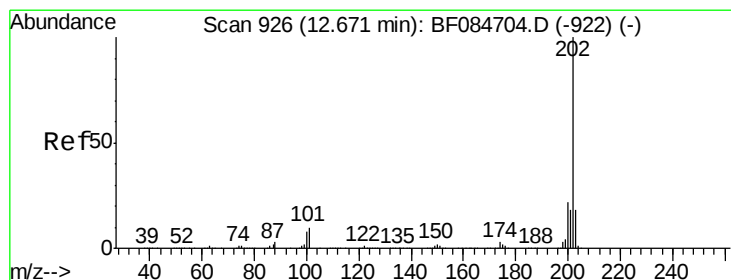
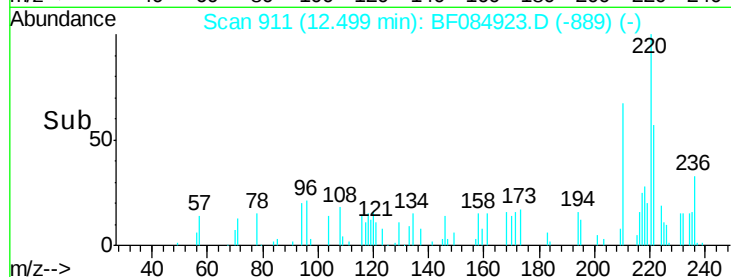
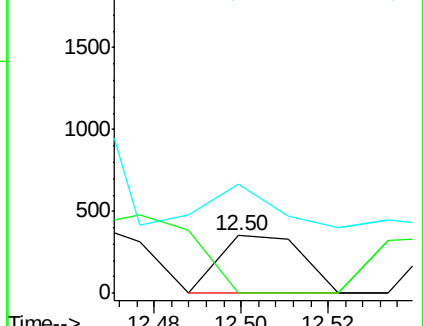
183 187.8 9.8 14.8#



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: 48.16 ng

RT: 12.61 min Scan# 921

Delta R.T. -0.02 min

Lab File: BF084923.D

Acq: 6 Feb 2016 20:31

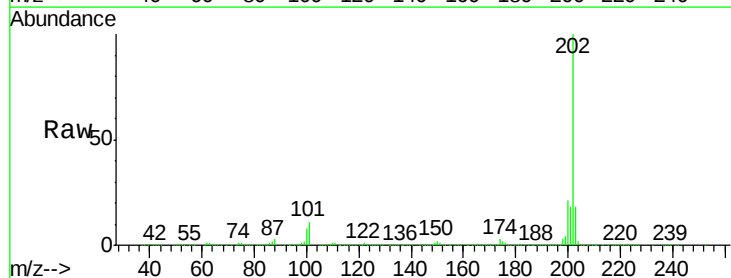
Tgt Ion:202 Resp: 1192259

Ion Ratio Lower Upper

202 100

200 21.2 17.2 25.8

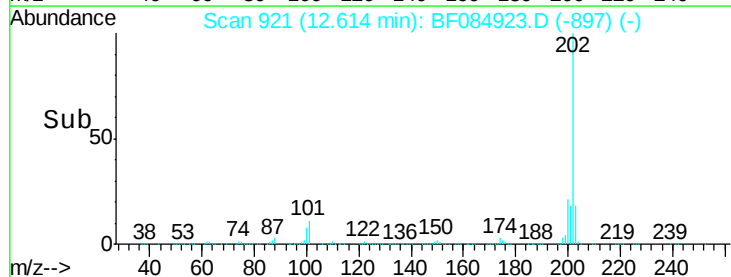
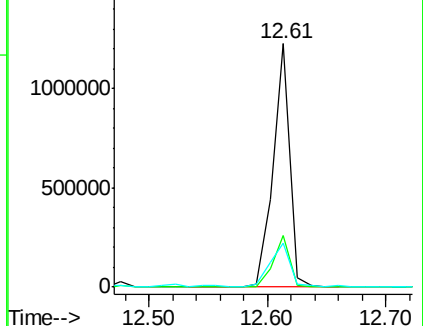
203 18.0 14.3 21.5

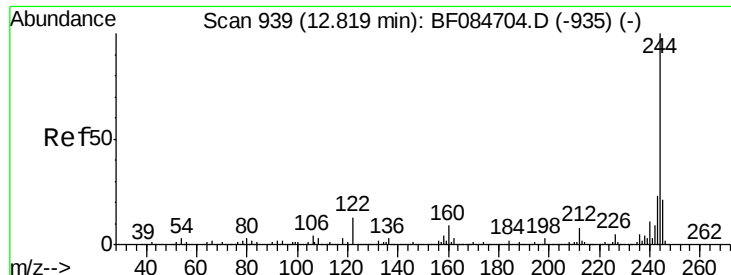


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

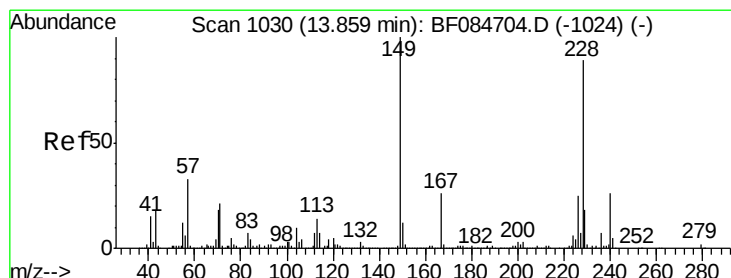
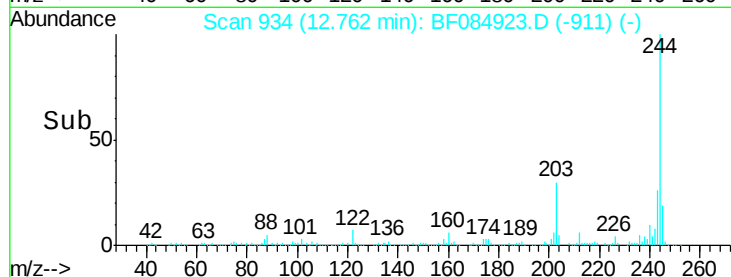
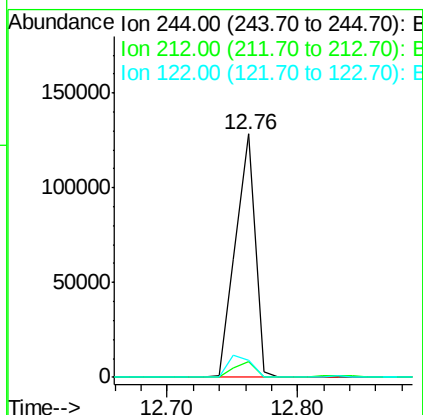
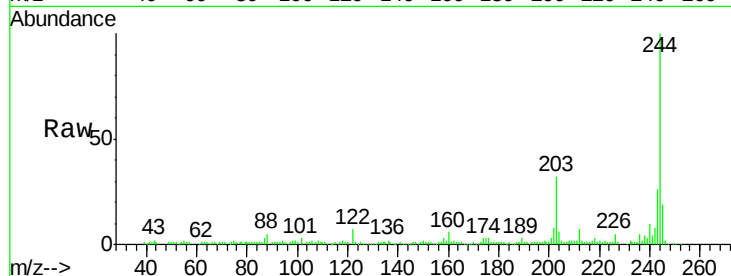




#78
 Terphenyl-d14
 Concen: 9.40 ng
 RT: 12.76 min Scan# 934
 Delta R.T. -0.03 min
 Lab File: BF084923.D
 Acq: 6 Feb 2016 20:31

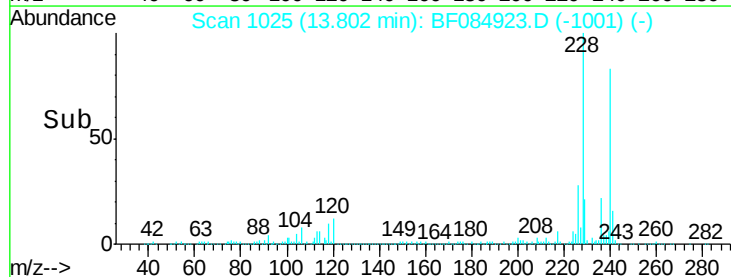
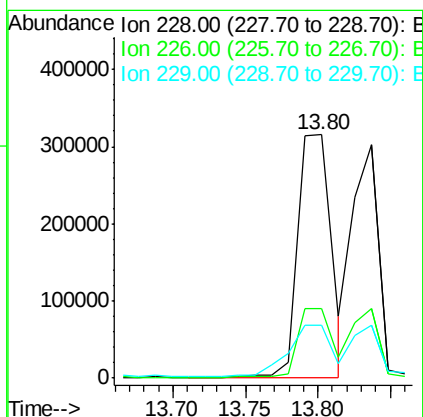
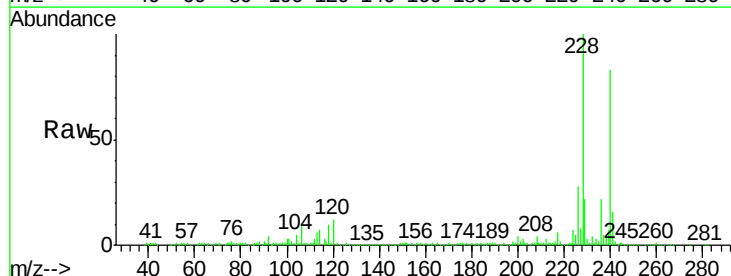
Instrument :
 BNA_F
 ClientSampleId :
 S4-B013(6-8)DL

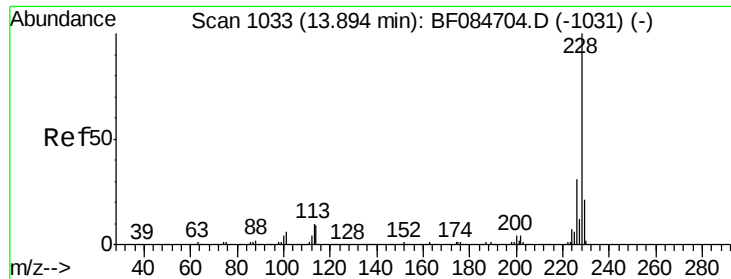
Tgt Ion:244 Resp: 134163
 Ion Ratio Lower Upper
 244 100
 212 6.6 5.7 8.5
 122 7.1 7.4 11.0#



#80
 Benzo(a)anthracene
 Concen: 25.10 ng
 RT: 13.80 min Scan# 1025
 Delta R.T. -0.02 min
 Lab File: BF084923.D
 Acq: 6 Feb 2016 20:31

Tgt Ion:228 Resp: 503744
 Ion Ratio Lower Upper
 228 100
 226 28.4 21.8 32.6
 229 21.6 15.8 23.8





#82

Chrysene

Concen: 25.89 ng

RT: 13.80 min Scan# 1025

Delta R.T. -0.06 min

Lab File: BF084923.D

Acq: 6 Feb 2016 20:31

Instrument :

BNA_F

ClientSampleId :

S4-B013(6-8)DL

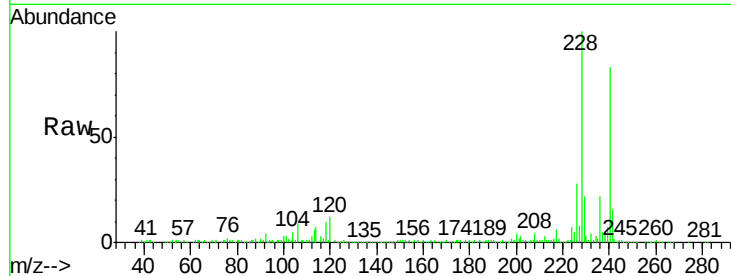
Tgt Ion:228 Resp: 503744

Ion Ratio Lower Upper

228 100

226 28.4 24.3 36.5

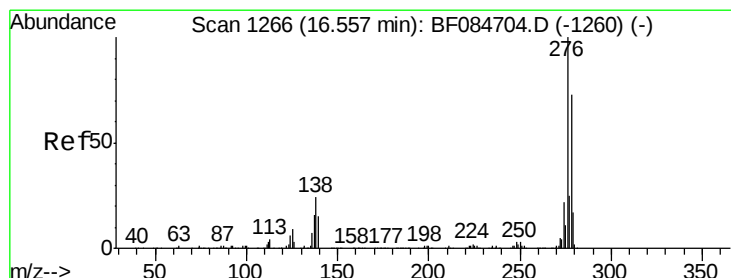
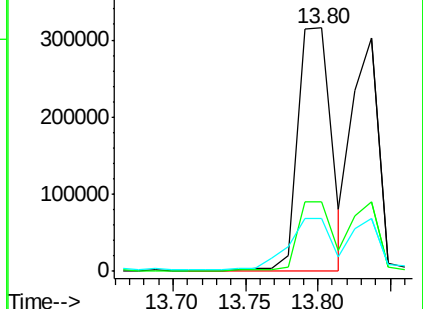
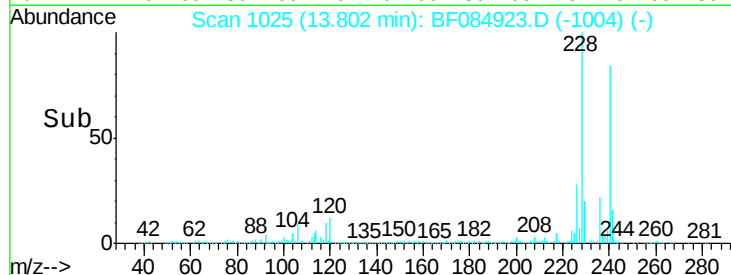
229 21.6 16.1 24.1



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: 14.89 ng

RT: 16.45 min Scan# 1257

Delta R.T. -0.05 min

Lab File: BF084923.D

Acq: 6 Feb 2016 20:31

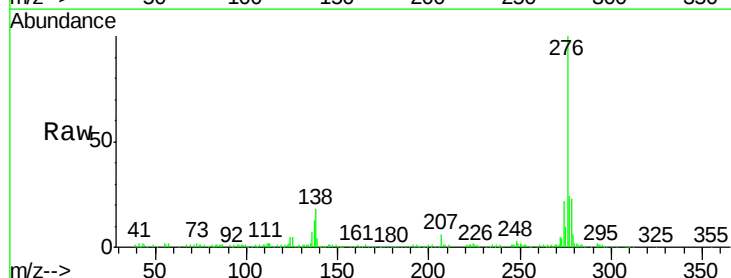
Tgt Ion:276 Resp: 228135

Ion Ratio Lower Upper

276 100

138 20.7 20.6 30.8

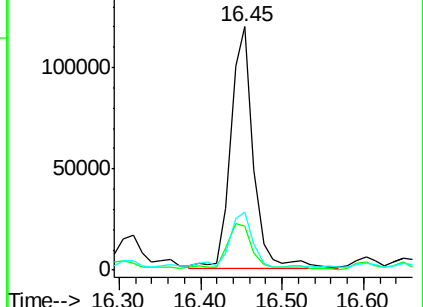
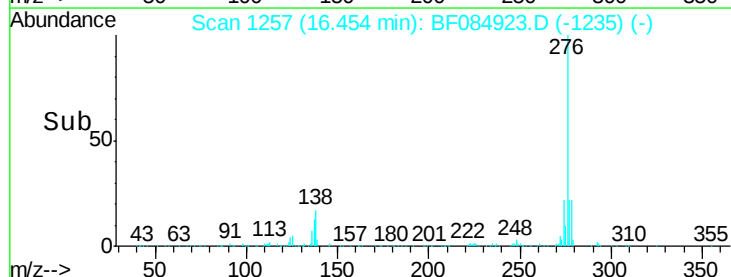
277 24.8 20.1 30.1

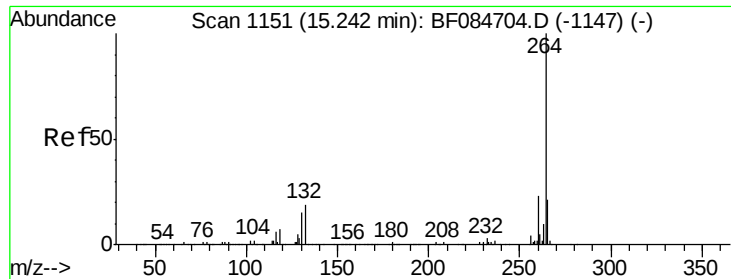


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

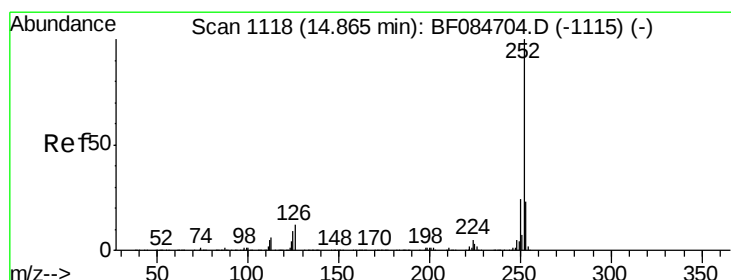
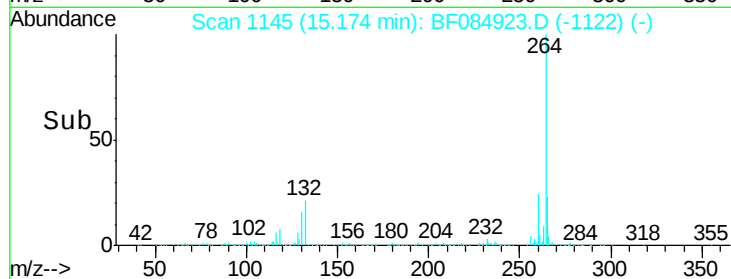
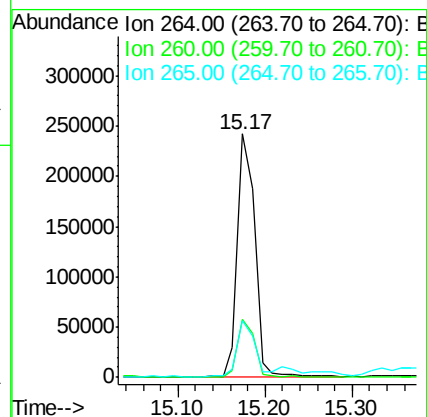
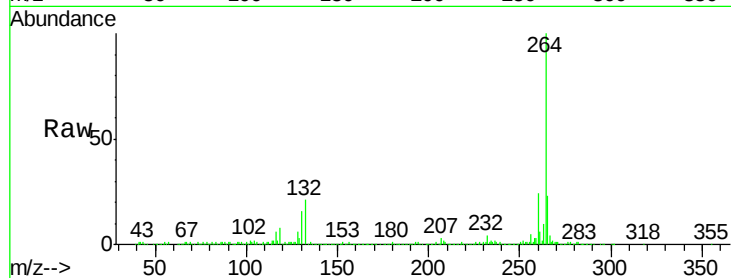




#86
Perylene-d12
Concen: 20.00 ng
RT: 15.17 min Scan# 1145
Delta R.T. -0.03 min
Lab File: BF084923.D
Acq: 6 Feb 2016 20:31

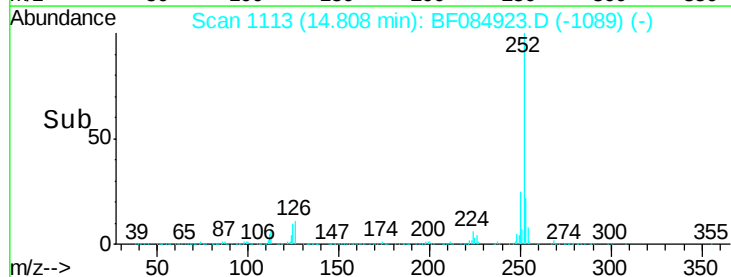
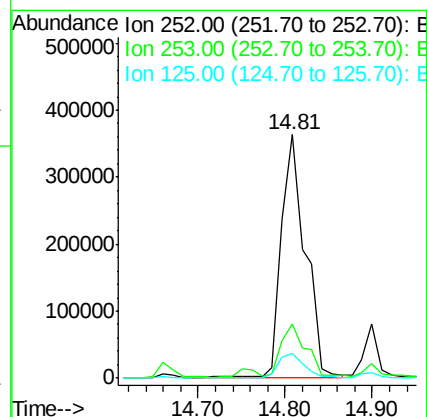
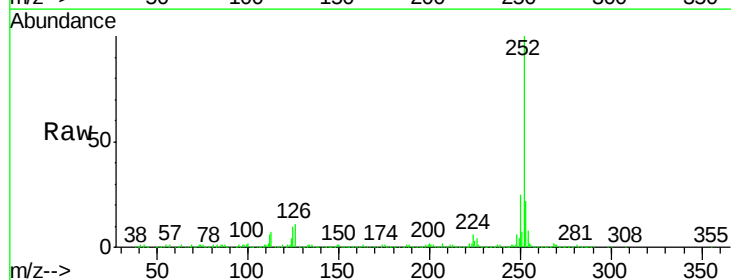
Instrument :
BNA_F
ClientSampleId :
S4-B013(6-8)DL

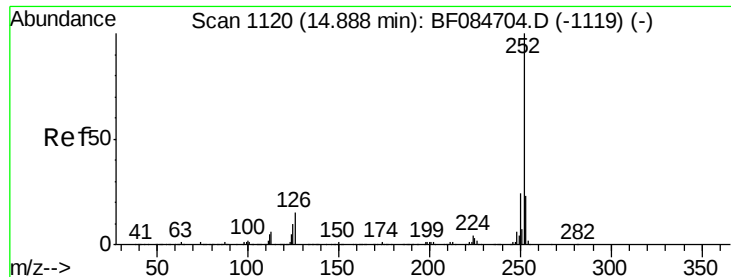
Tgt Ion:264 Resp: 339038
Ion Ratio Lower Upper
264 100
260 24.0 19.4 29.2
265 23.2 17.8 26.6



#87
Benzo(b)fluoranthene
Concen: 30.01 ng
RT: 14.81 min Scan# 1113
Delta R.T. -0.02 min
Lab File: BF084923.D
Acq: 6 Feb 2016 20:31

Tgt Ion:252 Resp: 683625
Ion Ratio Lower Upper
252 100
253 22.0 17.3 25.9
125 10.0 6.5 9.7#

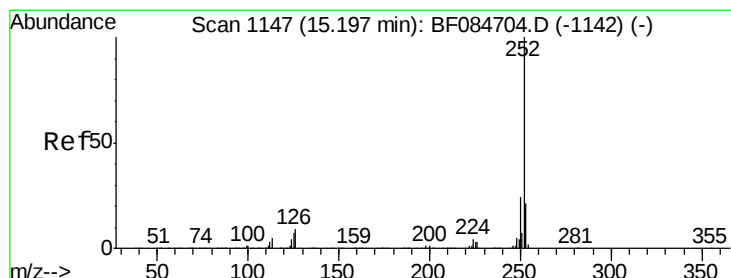
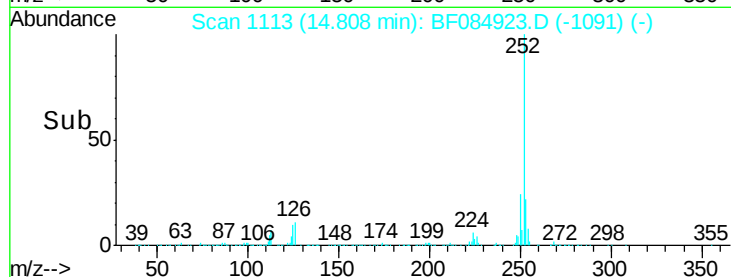
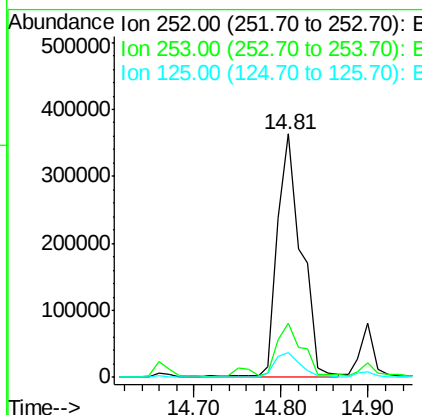
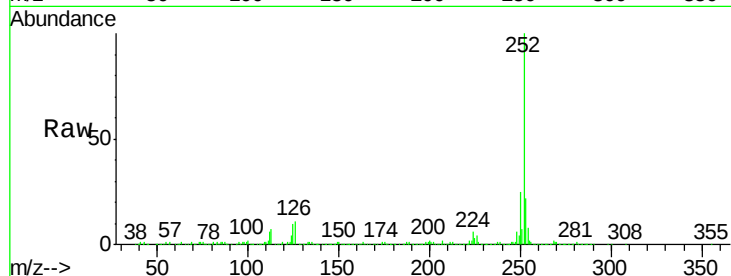




#88
Benzo(k)fluoranthene
Concen: 36.30 ng
RT: 14.81 min Scan# 1113
Delta R.T. -0.05 min
Lab File: BF084923.D
Acq: 6 Feb 2016 20:31

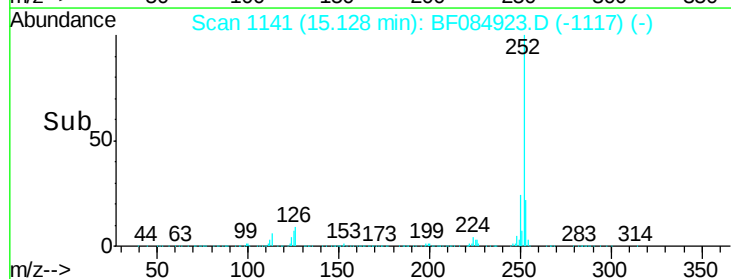
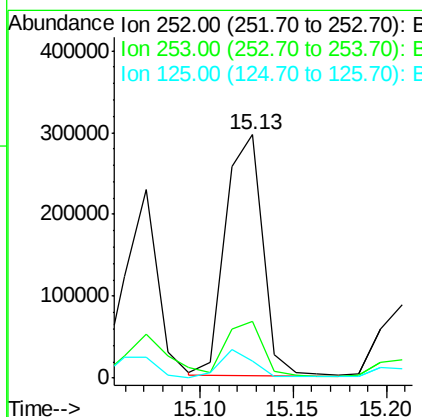
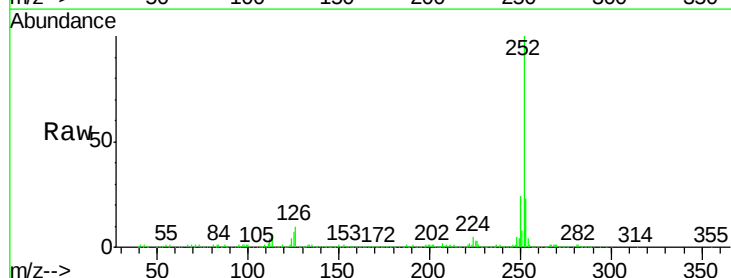
Instrument :
BNA_F
ClientSampleId :
S4-B013(6-8)DL

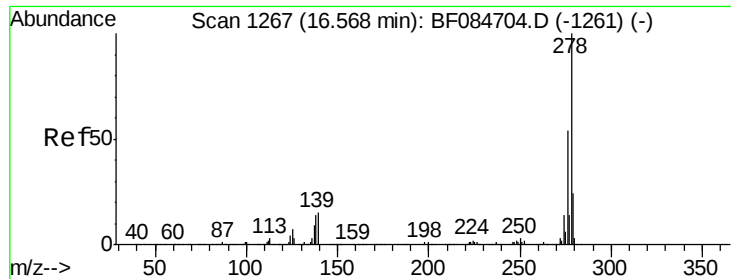
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.0	18.1	27.1
125	10.0	9.0	13.6



#89
Benzo(a)pyrene
Concen: 21.18 ng
RT: 15.13 min Scan# 1141
Delta R.T. -0.02 min
Lab File: BF084923.D
Acq: 6 Feb 2016 20:31

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.3	25.9
125	7.0	7.0	10.4





#90

Dibenzo(a,h)anthracene

Concen: 3.89 ng

RT: 16.45 min Scan# 1257

Delta R.T. -0.06 min

Lab File: BF084923.D

Acq: 6 Feb 2016 20:31

Instrument :

BNA_F

ClientSampleId :

S4-B013(6-8)DL

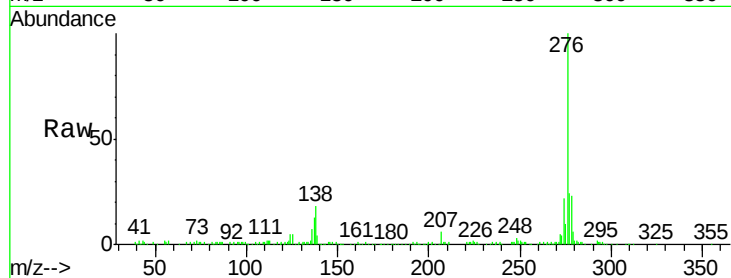
Tgt Ion:278 Resp: 63601

Ion Ratio Lower Upper

278 100

139 17.0 15.0 22.4

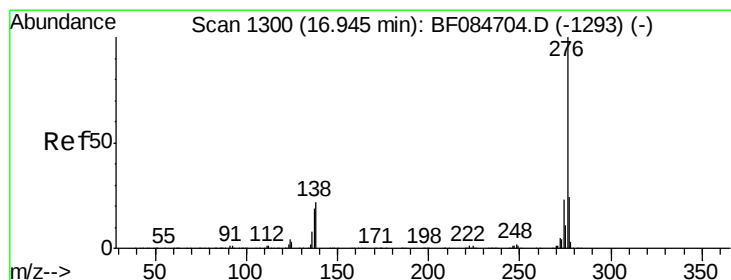
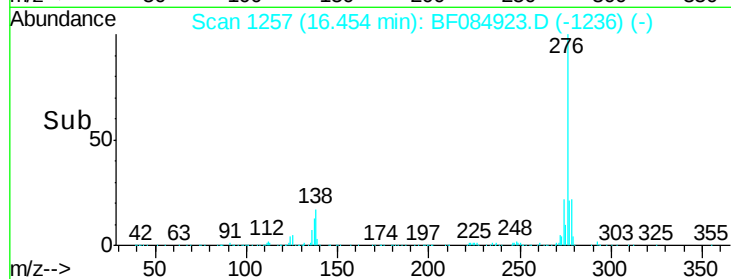
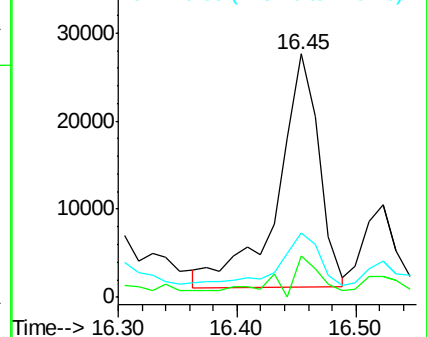
279 26.6 18.9 28.3



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: 13.06 ng

RT: 16.83 min Scan# 1290

Delta R.T. -0.06 min

Lab File: BF084923.D

Acq: 6 Feb 2016 20:31

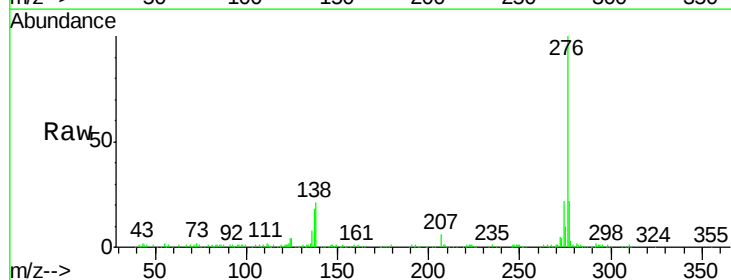
Tgt Ion:276 Resp: 214875

Ion Ratio Lower Upper

276 100

277 22.4 18.8 28.2

138 21.1 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

