

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF020516\
 Data File : BF084888.D
 Acq On : 6 Feb 2016 4:22
 Operator : SJ/IZ
 Sample : H1329-04 5X
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 S4-B006(10-12)

Quant Time: Feb 07 23:55:28 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

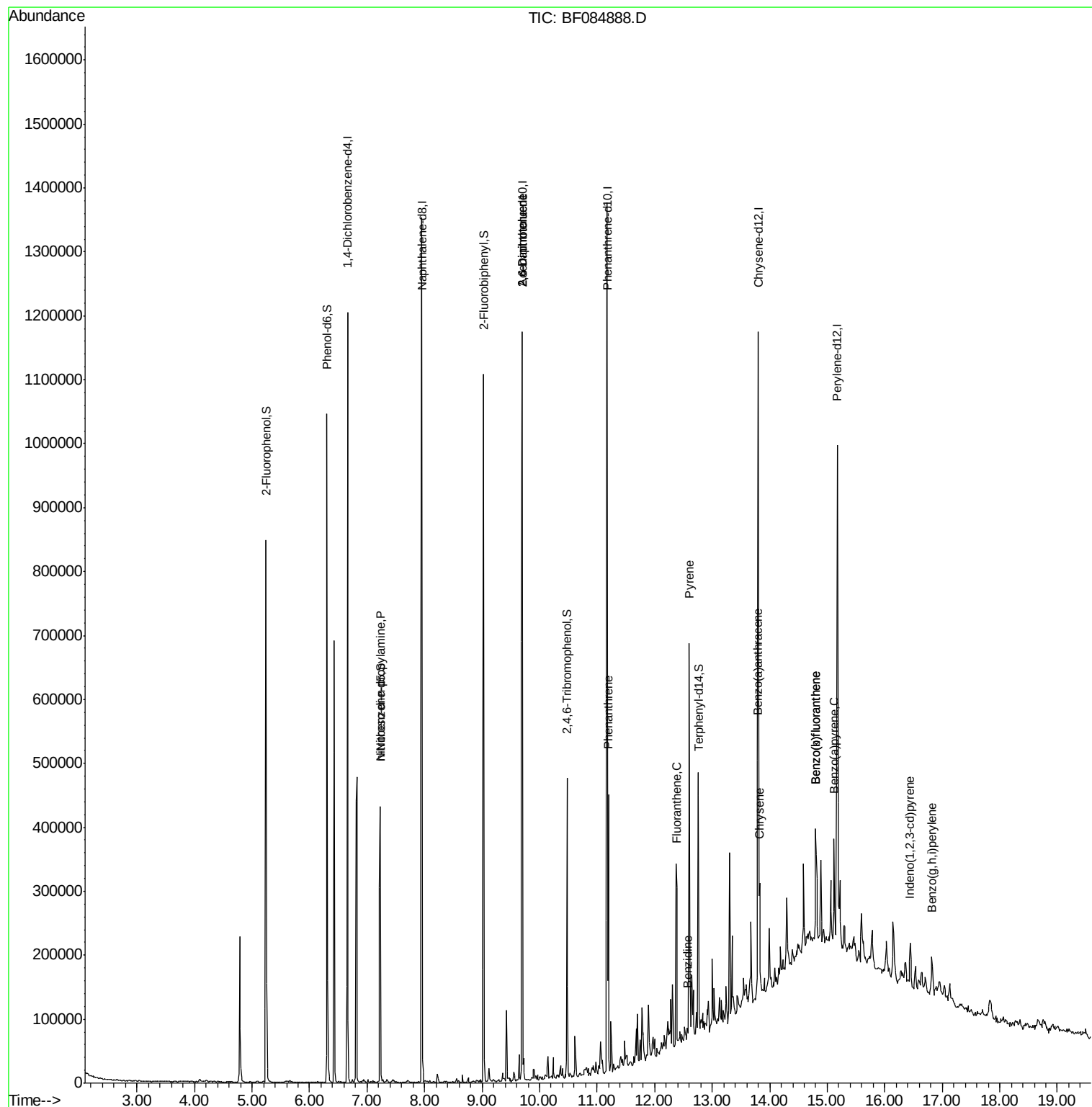
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.66	152	160858	20.00	ng	-0.02
21) Naphthalene-d8	7.95	136	664475	20.00	ng	-0.02
38) Acenaphthene-d10	9.70	164	277378	20.00	ng	-0.03
63) Phenanthrene-d10	11.17	188	460536	20.00	ng	-0.03
75) Chrysene-d12	13.80	240	327262	20.00	ng	-0.03
86) Perylene-d12	15.17	264	337750	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.24	112	231857	22.45	ng	-0.03
7) Phenol-d6	6.30	99	318065	24.84	ng	-0.03
23) Nitrobenzene-d5	7.23	82	175378	14.87	ng	-0.03
41) 2,4,6-Tribromophenol	10.48	330	50050	17.30	ng	-0.05
44) 2-Fluorobiphenyl	9.02	172	318961	14.37	ng	-0.03
78) Terphenyl-d14	12.76	244	175175	12.13	ng	-0.03
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	7.23	70	22503	2.80	ng	# 77
50) 2,6-Dinitrotoluene	9.70	165	35310	7.65	ng	# 37
56) 2,4-Dinitrotoluene	9.70	165	35310	6.00	ng	# 21
70) Phenanthrene	11.20	178	155332	6.08	ng	98
74) Fluoranthene	12.38	202	162574	6.29	ng	91
76) Benzydine	12.58	184	206	6.90	ng	# 1
77) Pyrene	12.60	202	150109	5.99	ng	99
80) Benzo(a)anthracene	13.79	228	87653	4.32	ng	97
82) Chrysene	13.82	228	55905	2.84	ng	96
85) Indeno(1,2,3-cd)pyrene	16.44	276	43674	2.82	ng	97
87) Benzo(b)fluoranthene	14.80	252	116692	5.14	ng	# 94
88) Benzo(k)fluoranthene	14.80	252	116692	6.22	ng	98
89) Benzo(a)pyrene	15.12	252	67797	3.51	ng	# 94
91) Benzo(g,h,i)perylene	16.82	276	44935	2.74	ng	97

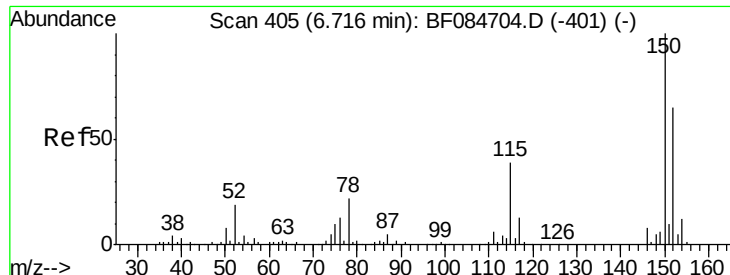
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BF084888.D

Acq: 6 Feb 2016 4:22

Instrument :

BNA_F

ClientSampleId :

S4-B006(10-12)

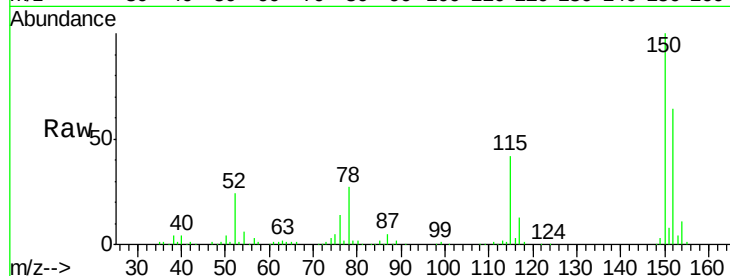
Tgt Ion:152 Resp: 160858

Ion Ratio Lower Upper

152 100

150 157.4 123.0 184.4

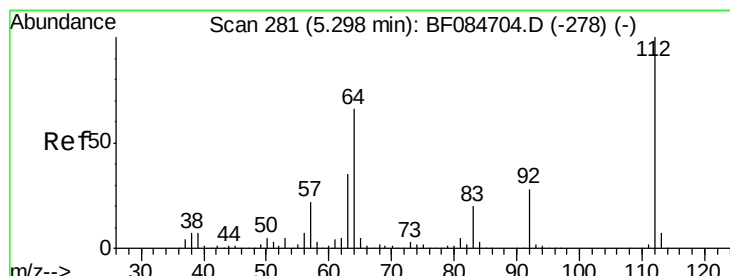
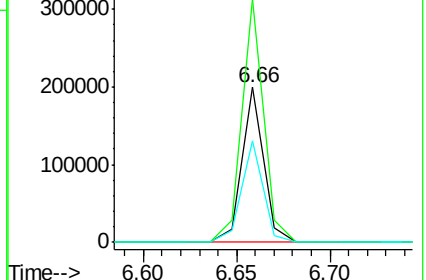
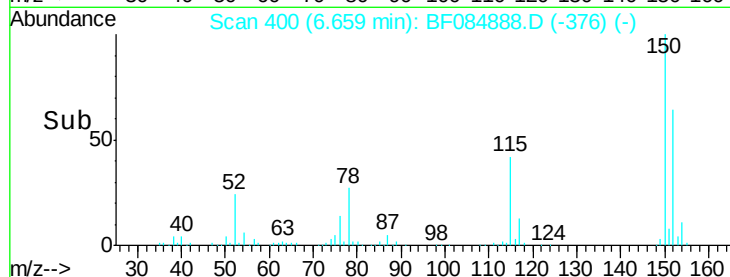
115 65.7 51.4 77.2



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: 22.45 ng

RT: 5.24 min Scan# 276

Delta R.T. -0.03 min

Lab File: BF084888.D

Acq: 6 Feb 2016 4:22

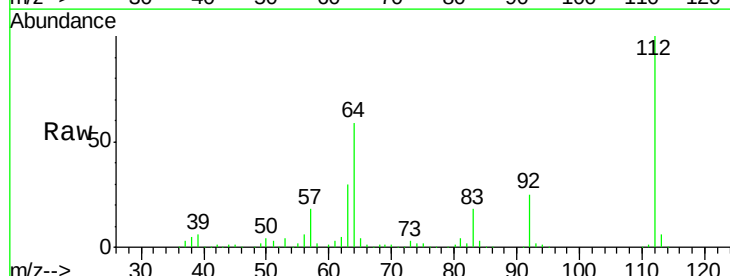
Tgt Ion:112 Resp: 231857

Ion Ratio Lower Upper

112 100

64 59.4 36.6 55.0#

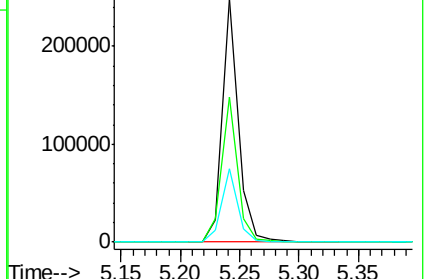
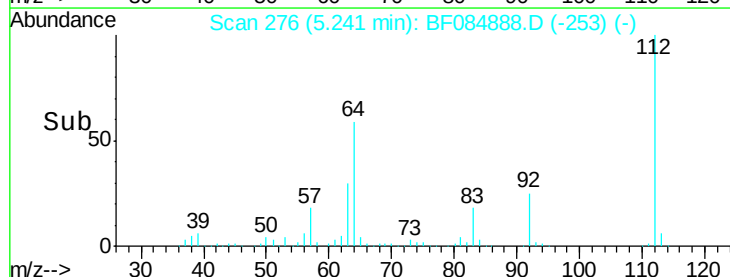
63 29.9 19.4 29.0#

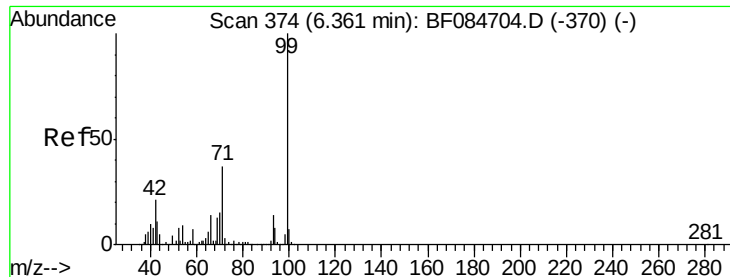


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 24.84 ng

RT: 6.30 min Scan# 369

Delta R.T. -0.03 min

Lab File: BF084888.D

Acq: 6 Feb 2016 4:22

Instrument :

BNA_F

ClientSampleId :

S4-B006(10-12)

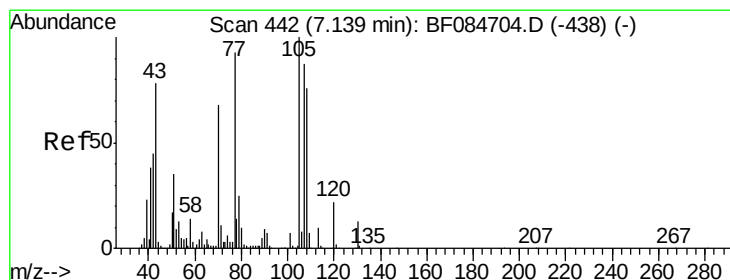
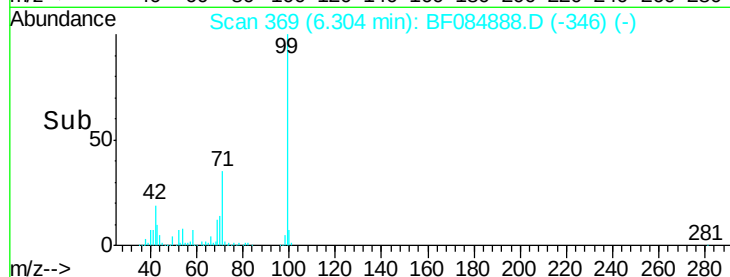
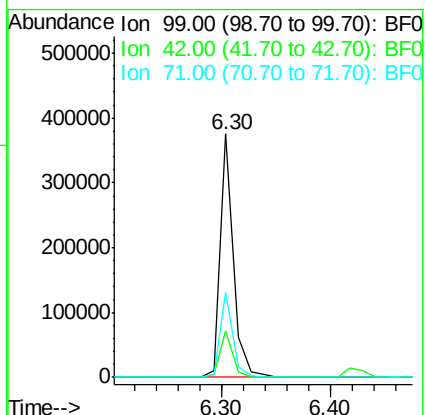
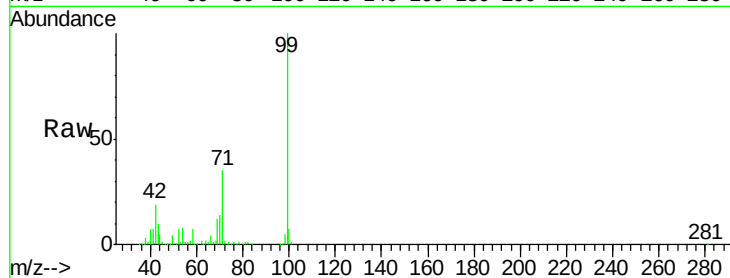
Tgt Ion: 99 Resp: 318065

Ion Ratio Lower Upper

99 100

42 18.9 12.8 19.2

71 35.0 30.9 46.3



#19

n-Nitroso-di-n-propylamine

Concen: 2.80 ng

RT: 7.23 min Scan# 450

Delta R.T. 0.11 min

Lab File: BF084888.D

Acq: 6 Feb 2016 4:22

Tgt Ion: 70 Resp: 22503

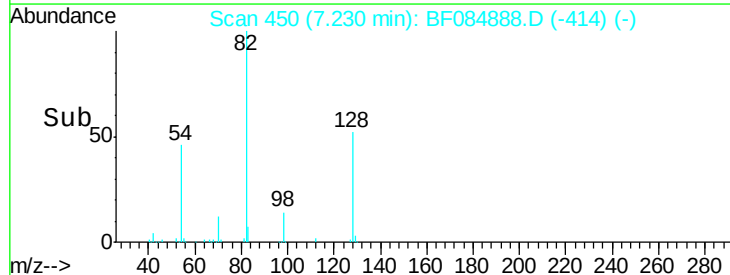
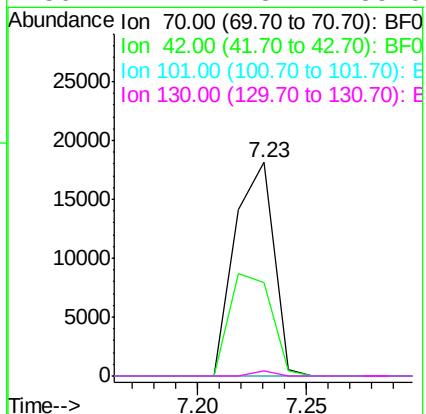
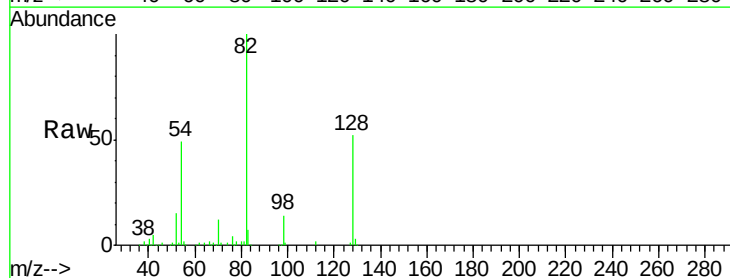
Ion Ratio Lower Upper

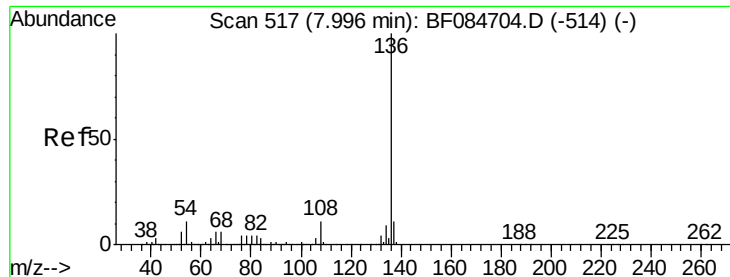
70 100

42 43.5 33.3 49.9

101 0.0 9.3 13.9#

130 2.4 23.4 35.0#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.95 min Scan# 513

Delta R.T. -0.02 min

Lab File: BF084888.D

Acq: 6 Feb 2016 4:22

Instrument :

BNA_F

ClientSampleId :

S4-B006(10-12)

Tgt Ion: 136 Resp: 664475

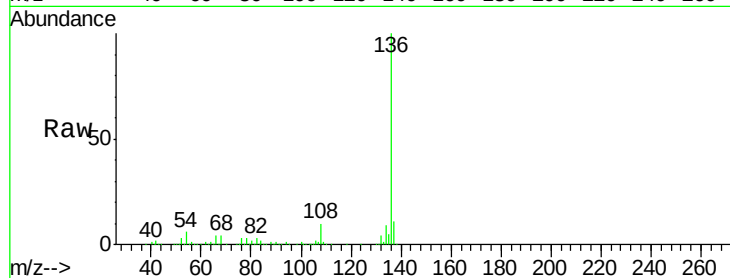
Ion Ratio Lower Upper

136 100

137 10.7 8.7 13.1

54 6.5 5.8 8.8

68 3.9 4.2 6.2#

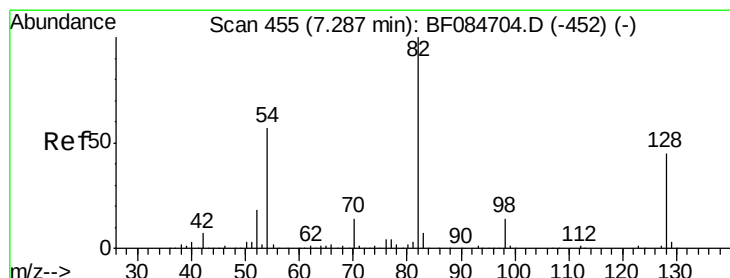
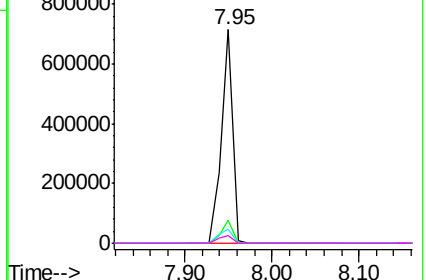
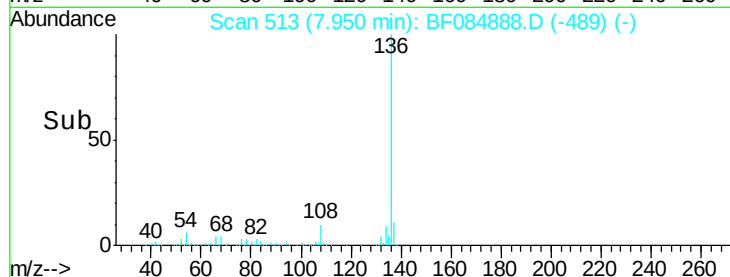


Abundance Ion 136.00 (135.70 to 136.70): E

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: 14.87 ng

RT: 7.23 min Scan# 450

Delta R.T. -0.03 min

Lab File: BF084888.D

Acq: 6 Feb 2016 4:22

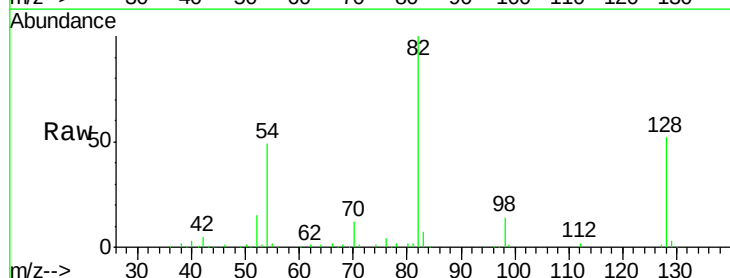
Tgt Ion: 82 Resp: 175378

Ion Ratio Lower Upper

82 100

128 52.2 34.6 51.8#

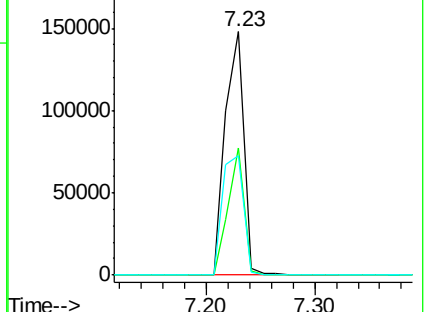
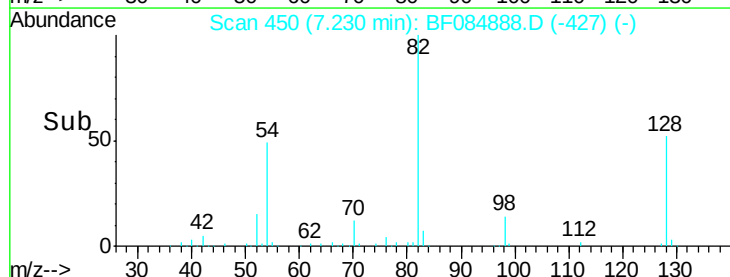
54 49.1 38.4 57.6

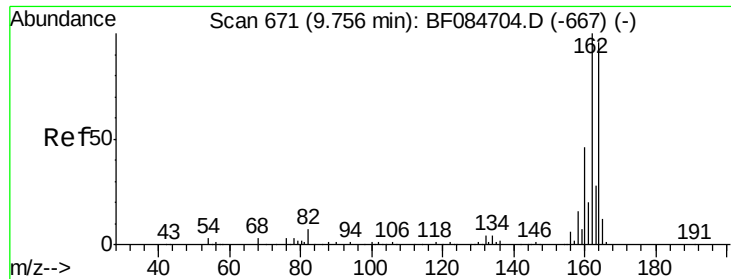


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

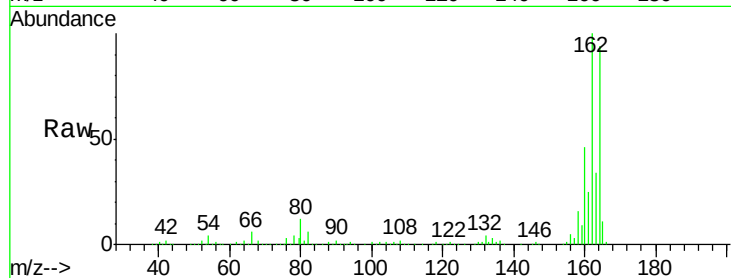




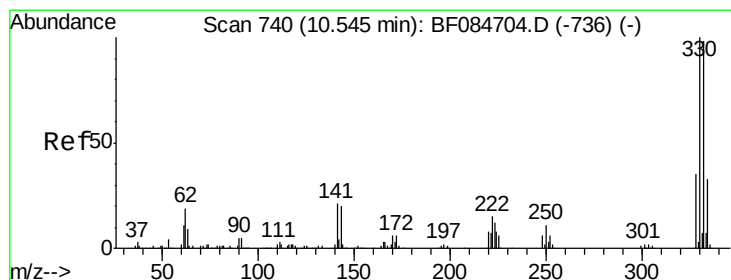
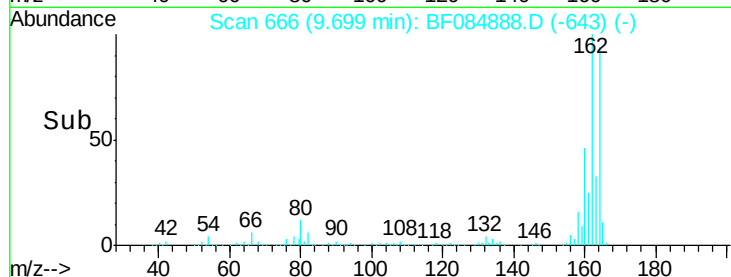
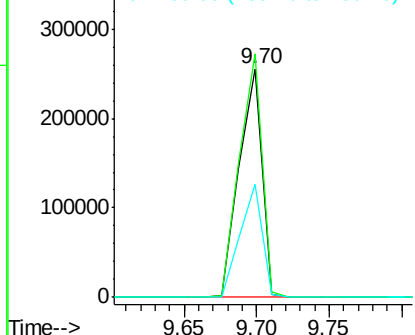
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.70 min Scan# 666
Delta R.T. -0.03 min
Lab File: BF084888.D
Acq: 6 Feb 2016 4:22

Instrument :
BNA_F
ClientSampleId :
S4-B006(10-12)

Tgt Ion:164 Resp: 277378
Ion Ratio Lower Upper
164 100
162 106.4 85.1 127.7
160 49.4 37.5 56.3

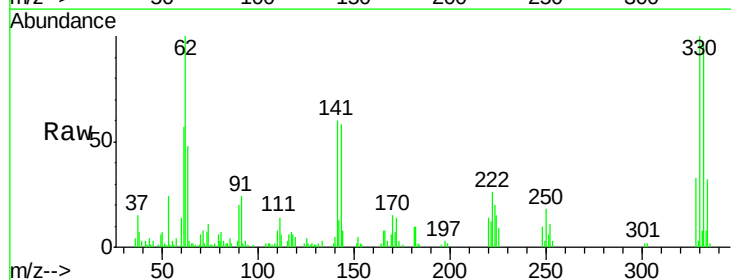


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

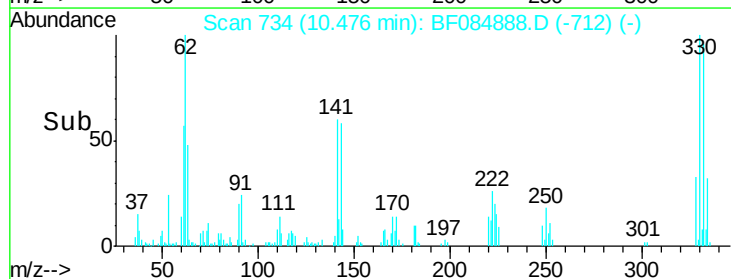
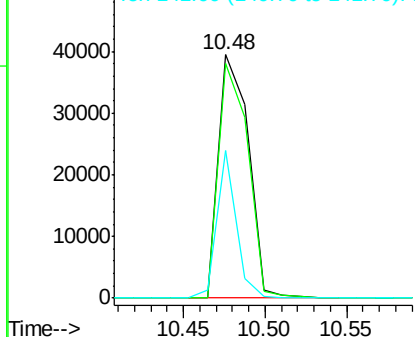


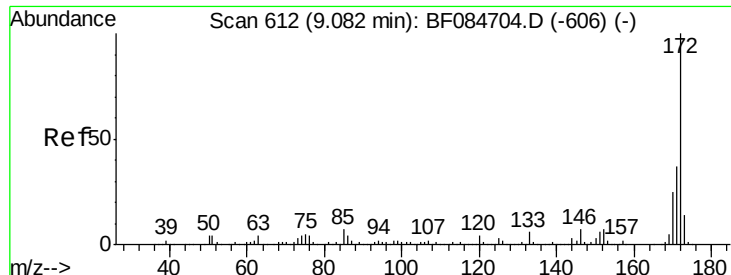
#41
2,4,6-Tribromophenol
Concen: 17.30 ng
RT: 10.48 min Scan# 734
Delta R.T. -0.05 min
Lab File: BF084888.D
Acq: 6 Feb 2016 4:22

Tgt Ion:330 Resp: 50050
Ion Ratio Lower Upper
330 100
332 95.1 76.6 114.8
141 39.3 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

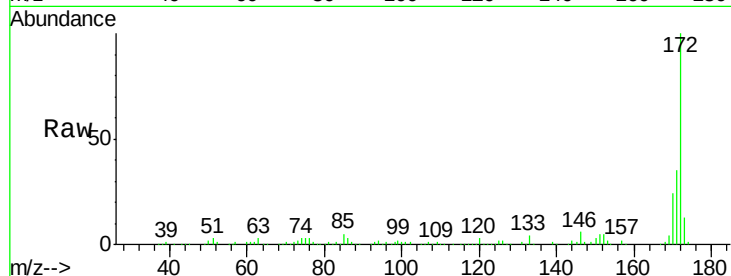




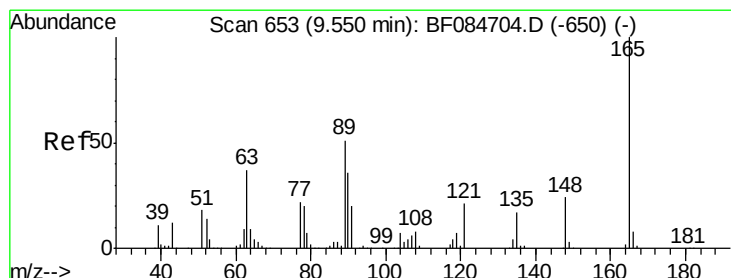
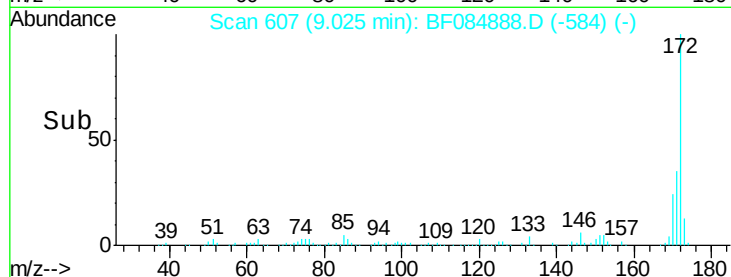
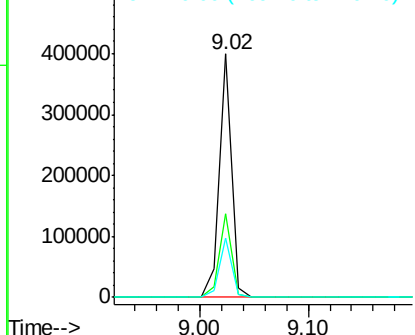
#44
 2-Fluorobiphenyl
 Concen: 14.37 ng
 RT: 9.02 min Scan# 607
 Delta R.T. -0.03 min
 Lab File: BF084888.D
 Acq: 6 Feb 2016 4:22

Instrument :
 BNA_F
 ClientSampleId :
 S4-B006(10-12)

Tgt Ion:172 Resp: 318961
 Ion Ratio Lower Upper
 172 100
 171 34.6 28.9 43.3
 170 24.1 18.6 27.8

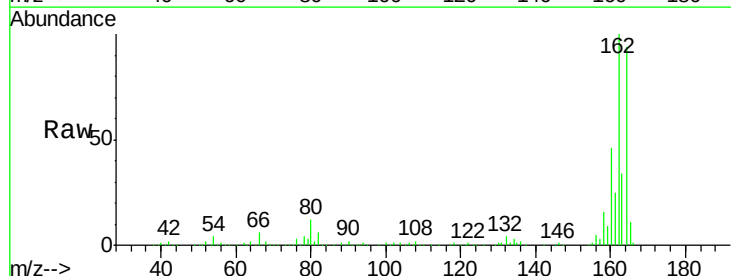


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

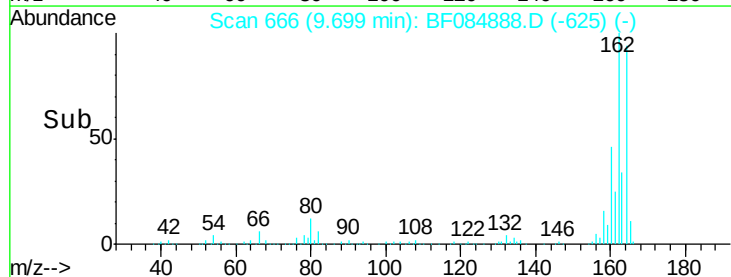
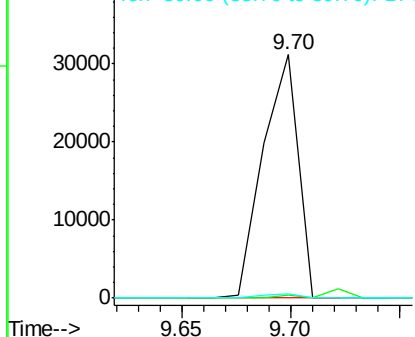


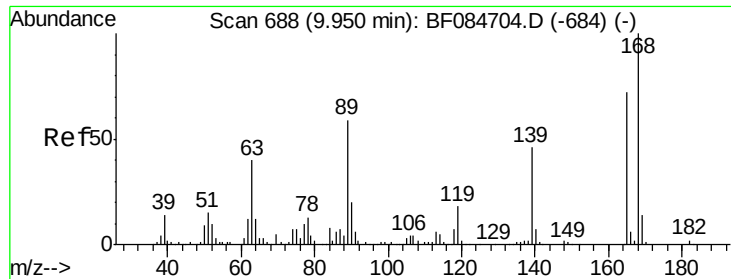
#50
 2,6-Dinitrotoluene
 Concen: 7.65 ng
 RT: 9.70 min Scan# 666
 Delta R.T. 0.17 min
 Lab File: BF084888.D
 Acq: 6 Feb 2016 4:22

Tgt Ion:165 Resp: 35310
 Ion Ratio Lower Upper
 165 100
 63 1.4 28.8 43.2#
 89 1.6 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

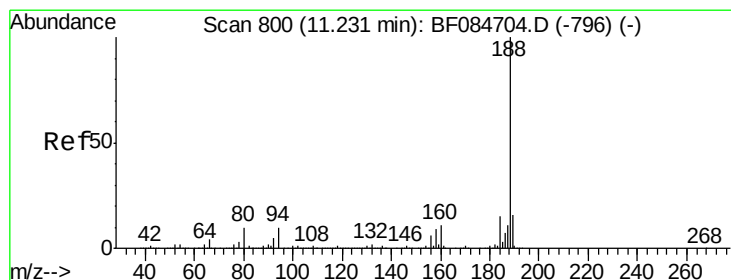
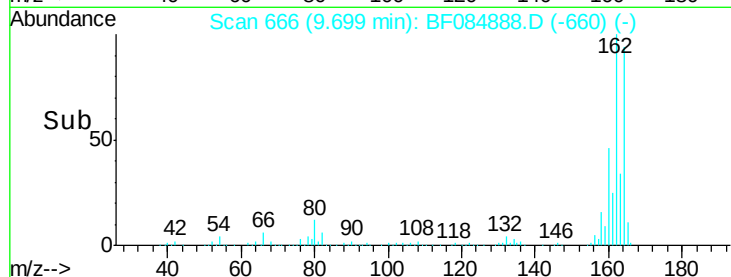
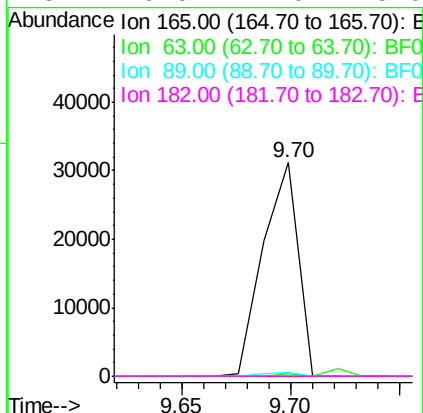
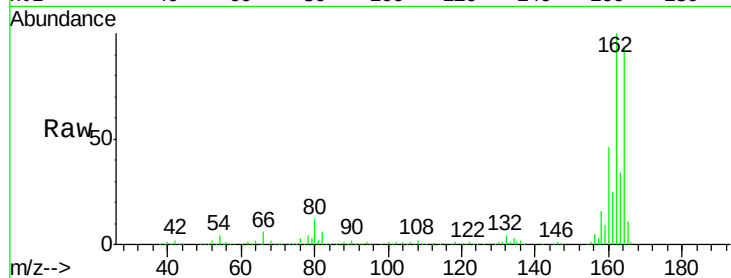




#56
 2,4-Dinitrotoluene
 Concen: 6.00 ng
 RT: 9.70 min Scan# 666
 Delta R.T. -0.23 min
 Lab File: BF084888.D
 Acq: 6 Feb 2016 4:22

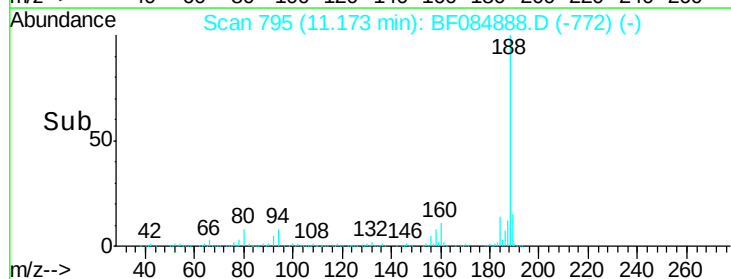
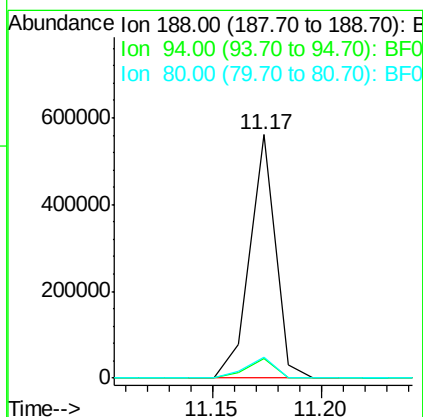
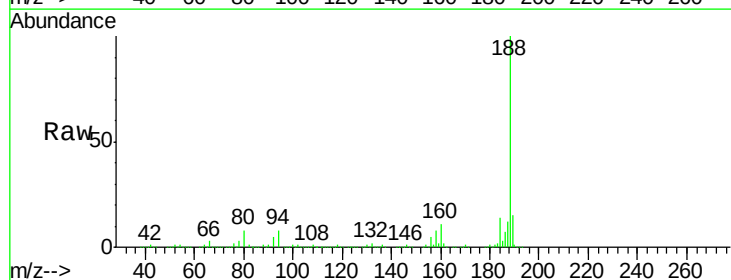
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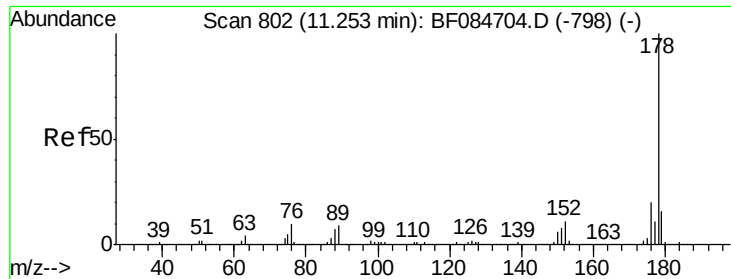
Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.4	36.7	55.1#
89	1.6	61.9	92.9#
182	0.0	2.0	3.0#



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.17 min Scan# 795
 Delta R.T. -0.03 min
 Lab File: BF084888.D
 Acq: 6 Feb 2016 4:22

Tgt Ion	Ratio	Lower	Upper
188	100		
94	8.2	9.0	13.4#
80	8.4	9.6	14.4#

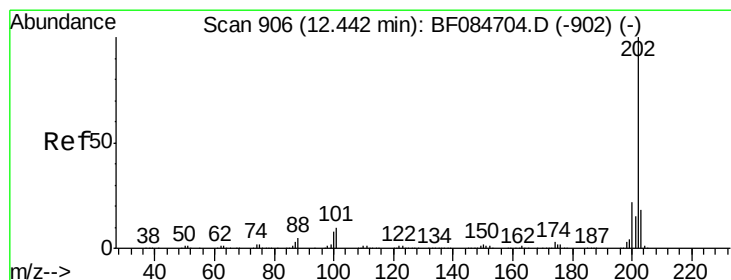
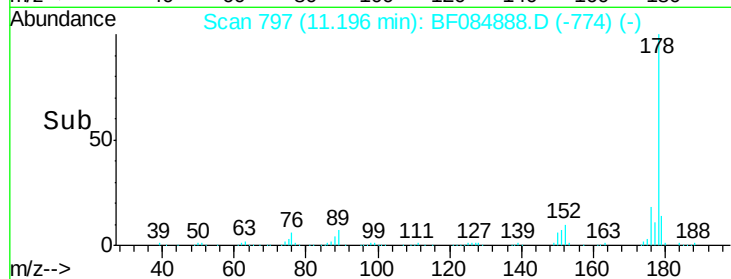
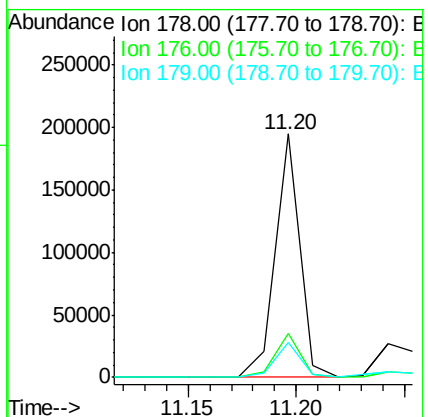
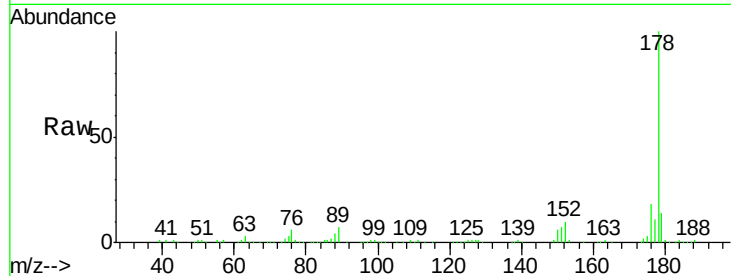




#70
Phenanthrene
Concen: 6.08 ng
RT: 11.20 min Scan# 797
Delta R.T. -0.03 min
Lab File: BF084888.D
Acq: 6 Feb 2016 4:22

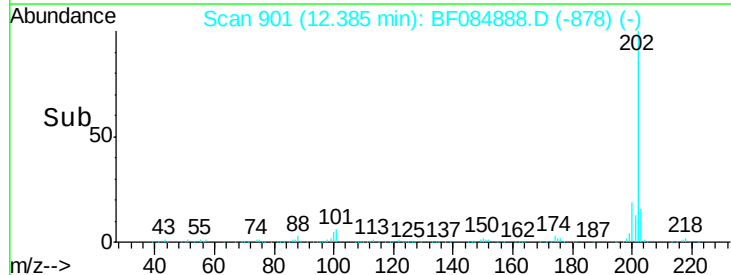
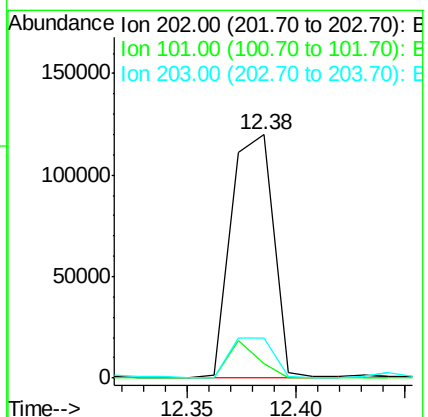
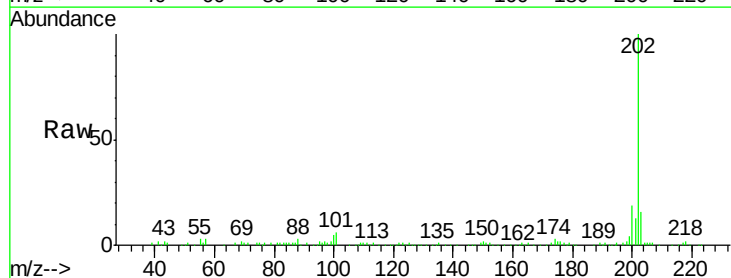
Instrument :
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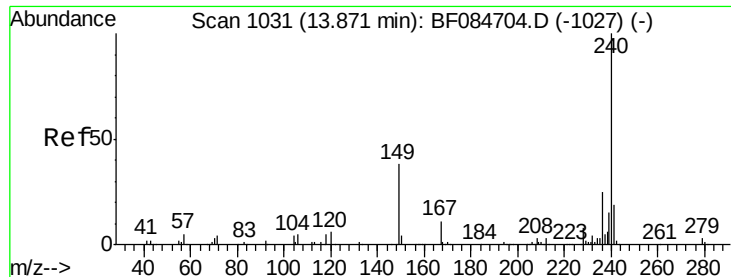
Tgt Ion:178 Resp: 155332
Ion Ratio Lower Upper
178 100
176 17.8 15.3 22.9
179 14.3 12.0 18.0



#74
Fluoranthene
Concen: 6.29 ng
RT: 12.38 min Scan# 901
Delta R.T. -0.03 min
Lab File: BF084888.D
Acq: 6 Feb 2016 4:22

Tgt Ion:202 Resp: 162574
Ion Ratio Lower Upper
202 100
101 6.2 0.0 32.8
203 16.4 0.0 37.9





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.80 min Scan# 1025

Delta R.T. -0.03 min

Lab File: BF084888.D

Acq: 6 Feb 2016 4:22

Instrument :

BNA_F

ClientSampleId :

S4-B006(10-12)

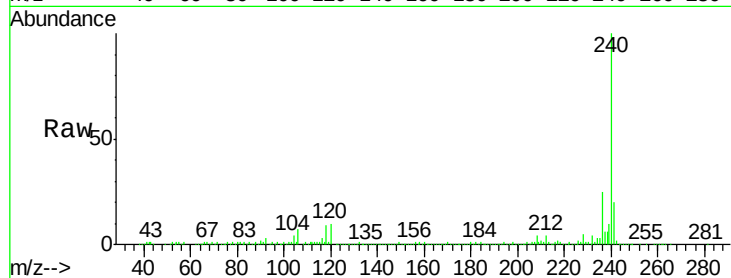
Tgt Ion:240 Resp: 327262

Ion Ratio Lower Upper

240 100

120 10.3 9.5 14.3

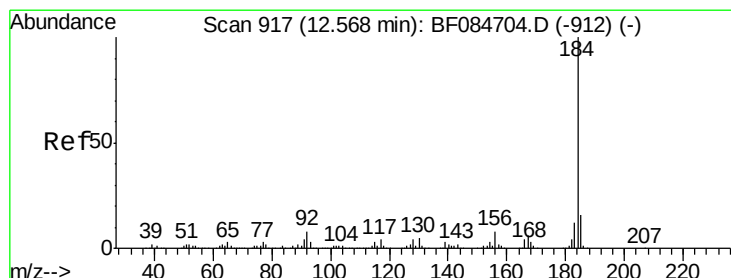
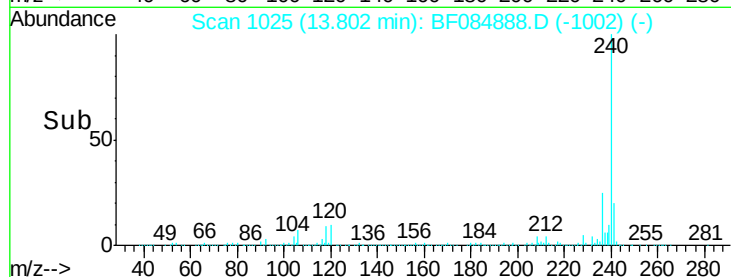
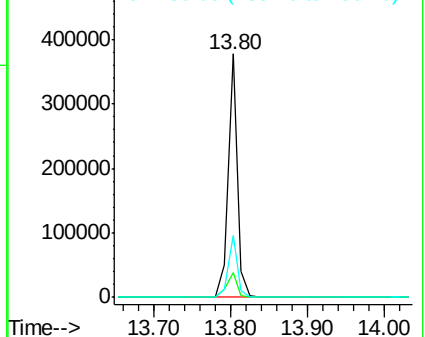
236 25.2 20.6 31.0



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: 6.90 ng

RT: 12.58 min Scan# 918

Delta R.T. 0.03 min

Lab File: BF084888.D

Acq: 6 Feb 2016 4:22

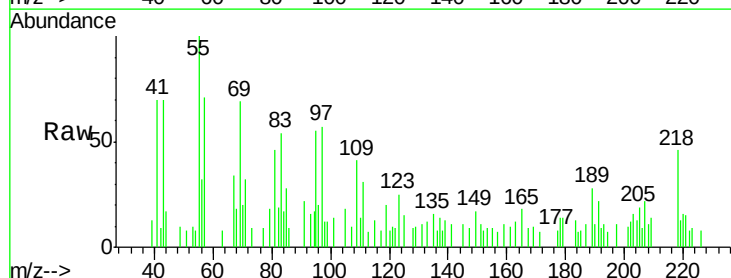
Tgt Ion:184 Resp: 206

Ion Ratio Lower Upper

184 100

185 107.0 12.2 18.2#

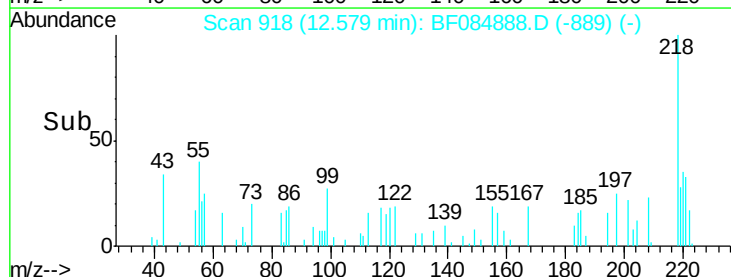
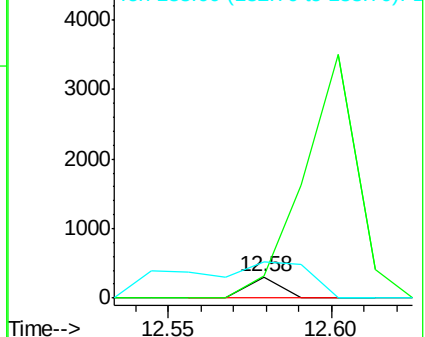
183 173.0 9.8 14.8#

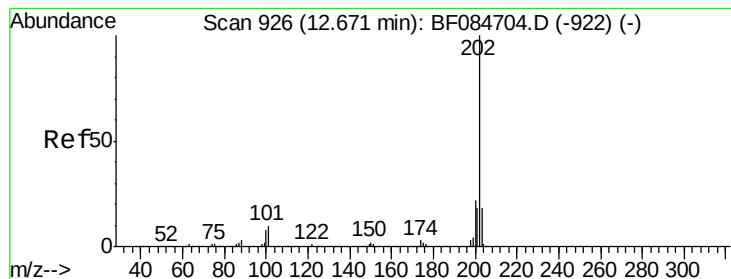


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#77

Pyrene

Concen: 5.99 ng

RT: 12.60 min Scan# 920

Delta R.T. -0.03 min

Lab File: BF084888.D

Acq: 6 Feb 2016 4:22

Instrument :

BNA_F

ClientSampleId :

S4-B006(10-12)

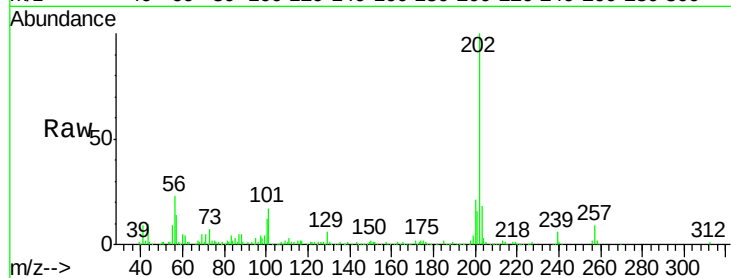
Tgt Ion:202 Resp: 150109

Ion Ratio Lower Upper

202 100

200 21.1 17.2 25.8

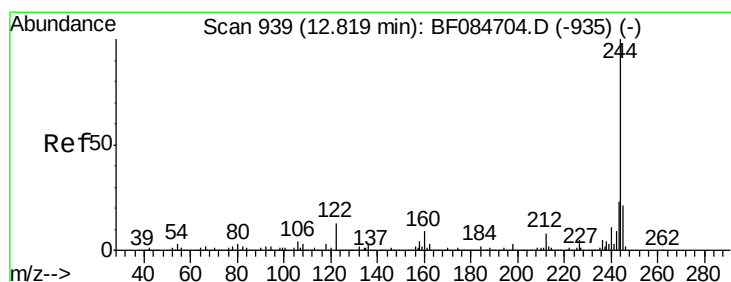
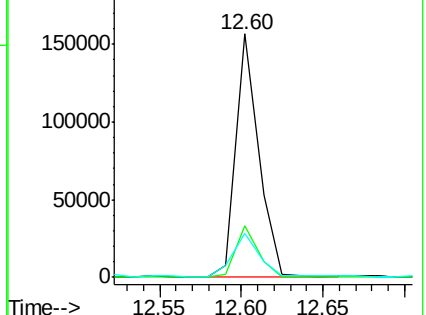
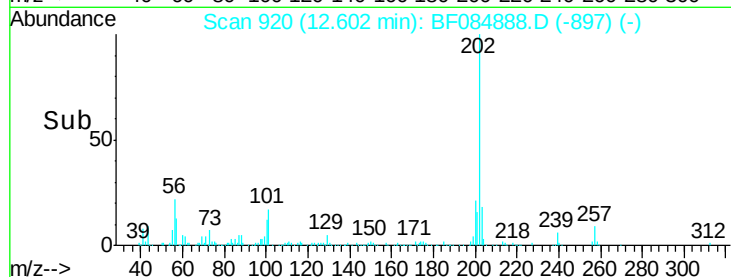
203 18.1 14.3 21.5



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: 12.13 ng

RT: 12.76 min Scan# 934

Delta R.T. -0.03 min

Lab File: BF084888.D

Acq: 6 Feb 2016 4:22

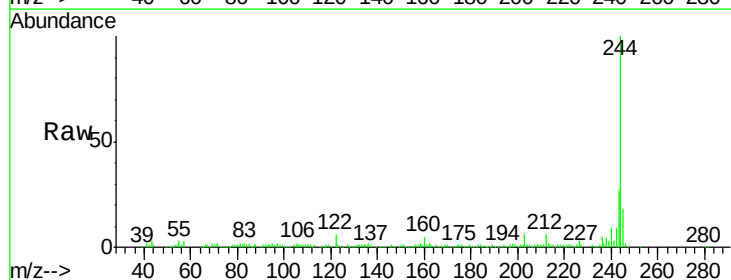
Tgt Ion:244 Resp: 175175

Ion Ratio Lower Upper

244 100

212 5.8 5.7 8.5

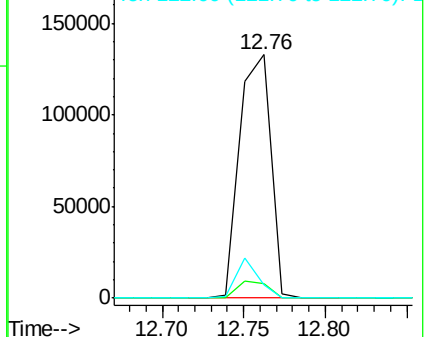
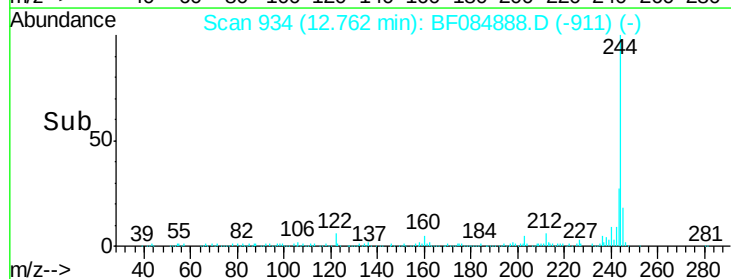
122 5.6 7.4 11.0#

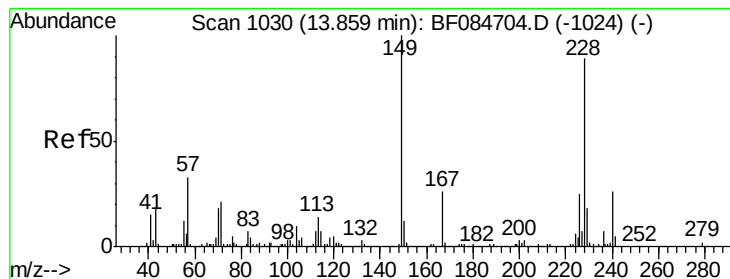


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 4.32 ng

RT: 13.79 min Scan# 1024

Delta R.T. -0.03 min

Lab File: BF084888.D

Acq: 6 Feb 2016 4:22

Instrument :

BNA_F

ClientSampleId :

S4-B006(10-12)

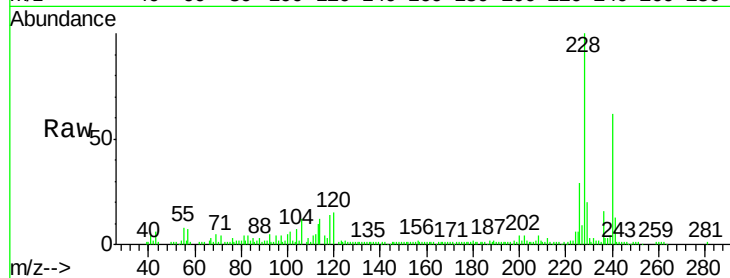
Tgt Ion:228 Resp: 87653

Ion Ratio Lower Upper

228 100

226 29.1 21.8 32.6

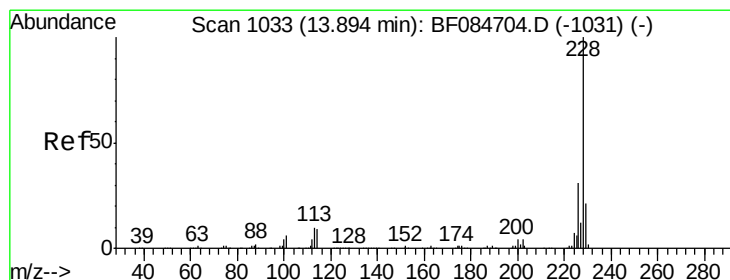
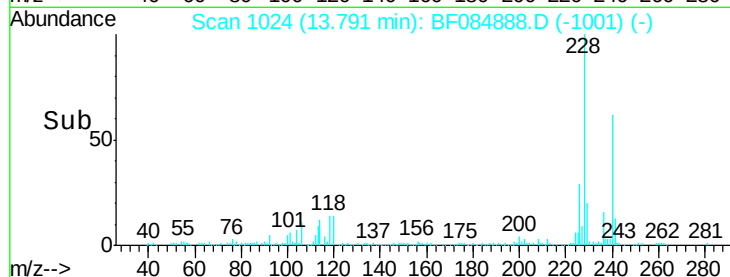
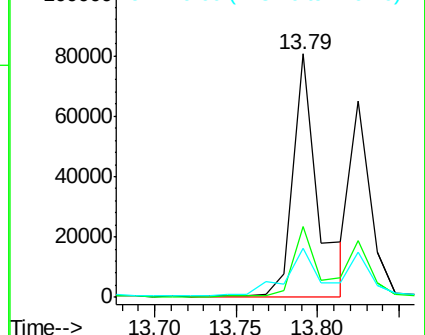
229 20.3 15.8 23.8



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: 2.84 ng

RT: 13.82 min Scan# 1027

Delta R.T. -0.03 min

Lab File: BF084888.D

Acq: 6 Feb 2016 4:22

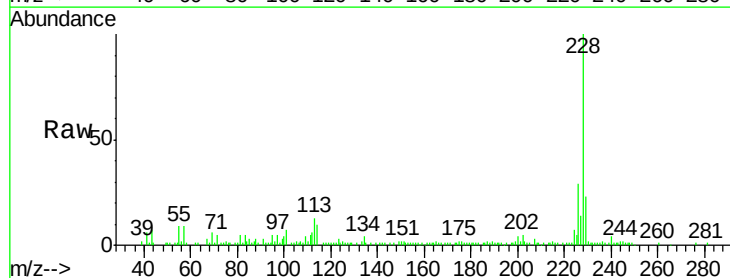
Tgt Ion:228 Resp: 55905

Ion Ratio Lower Upper

228 100

226 29.1 24.3 36.5

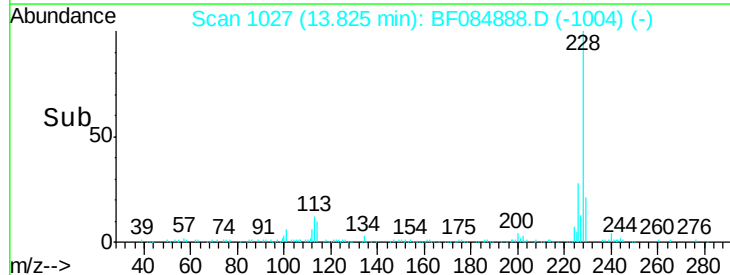
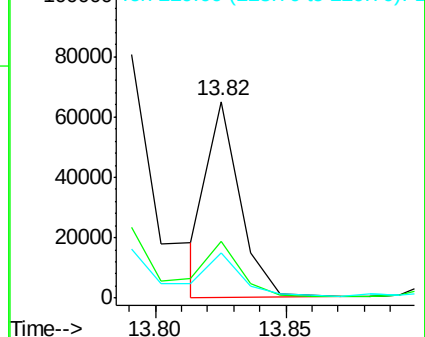
229 23.0 16.1 24.1

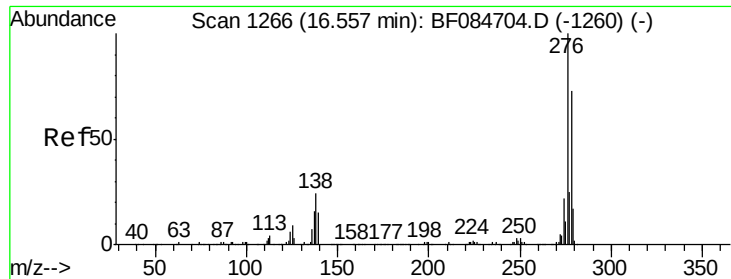


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

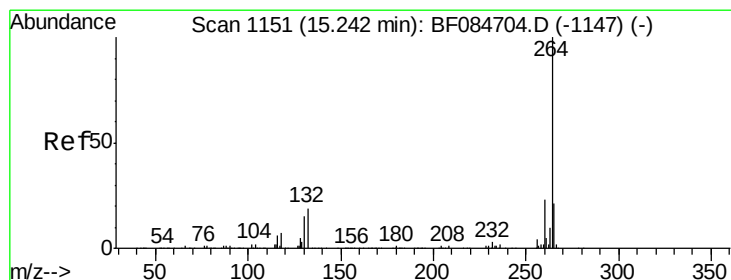
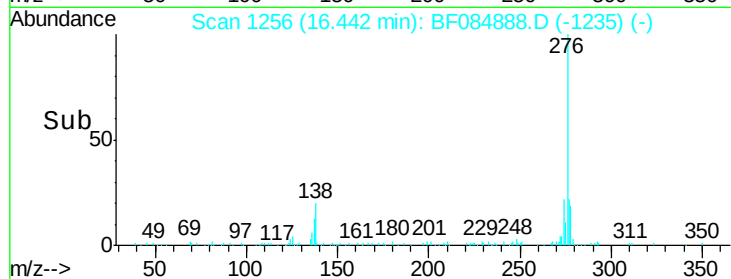
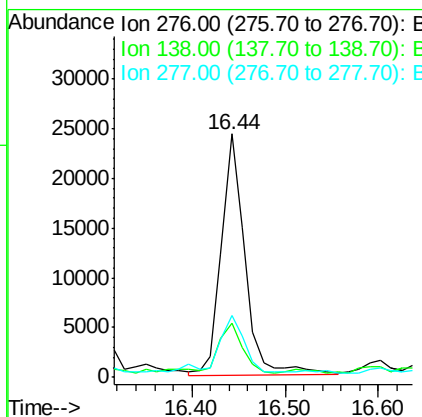
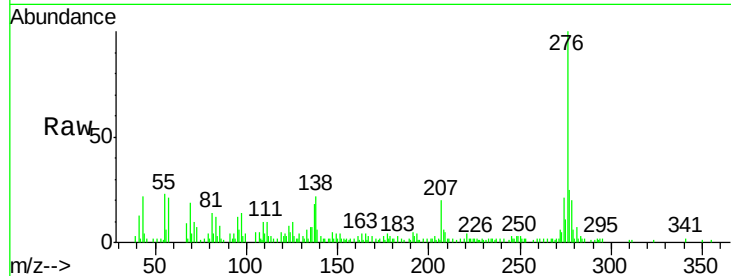




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 2.82 ng
 RT: 16.44 min Scan# 1256
 Delta R.T. -0.06 min
 Lab File: BF084888.D
 Acq: 6 Feb 2016 4:22

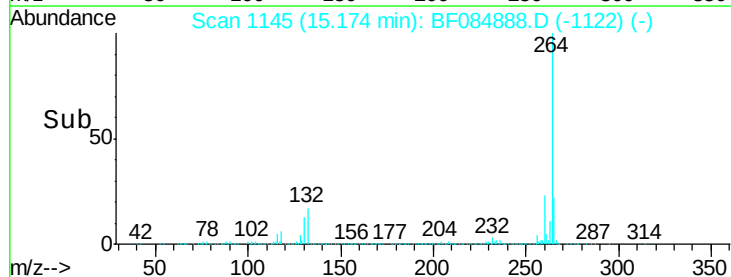
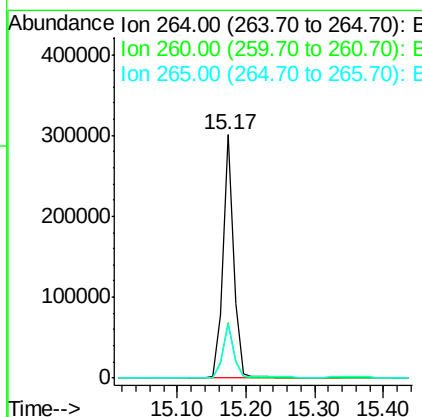
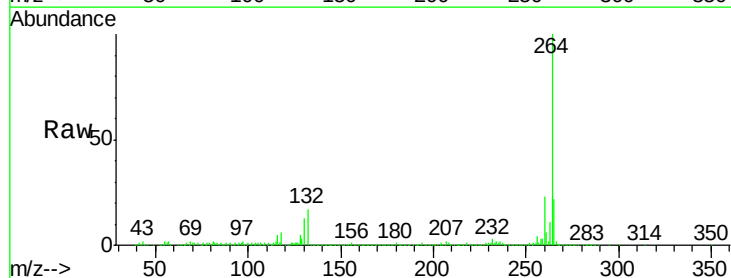
Instrument :
 BNA_F
 ClientSampleId :
 S4-B006(10-12)

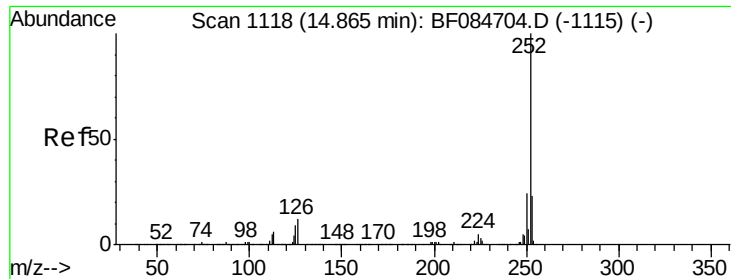
Tgt Ion: 276 Resp: 43674
 Ion Ratio Lower Upper
 276 100
 138 23.2 20.6 30.8
 277 25.0 20.1 30.1



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.17 min Scan# 1145
 Delta R.T. -0.03 min
 Lab File: BF084888.D
 Acq: 6 Feb 2016 4:22

Tgt Ion: 264 Resp: 337750
 Ion Ratio Lower Upper
 264 100
 260 22.9 19.4 29.2
 265 22.2 17.8 26.6

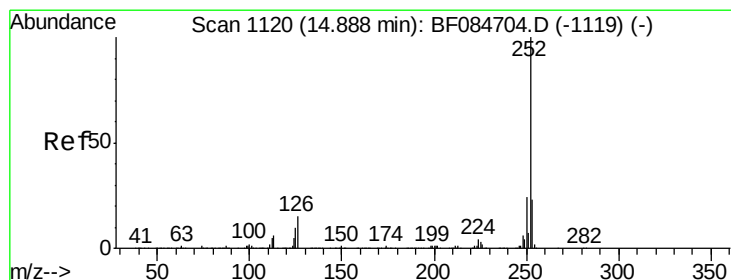
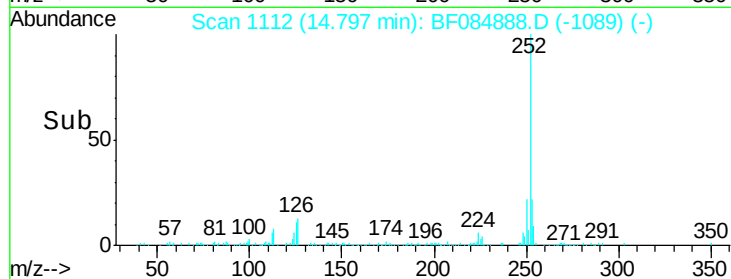
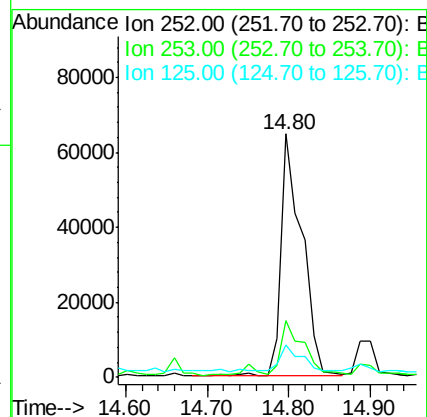
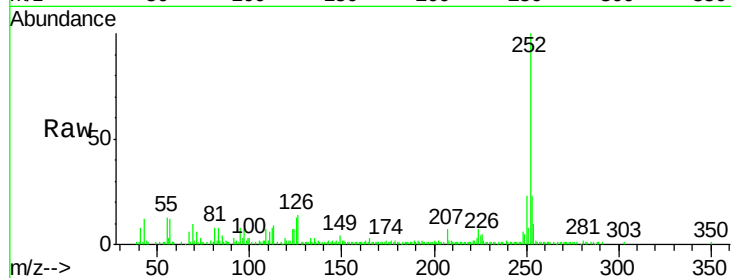




#87
Benzo(b)fluoranthene
Concen: 5.14 ng
RT: 14.80 min Scan# 1112
Delta R.T. -0.03 min
Lab File: BF084888.D
Acq: 6 Feb 2016 4:22

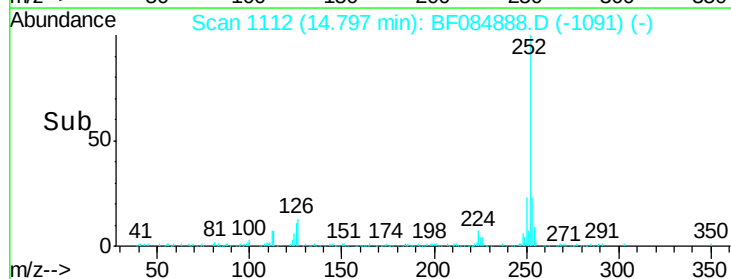
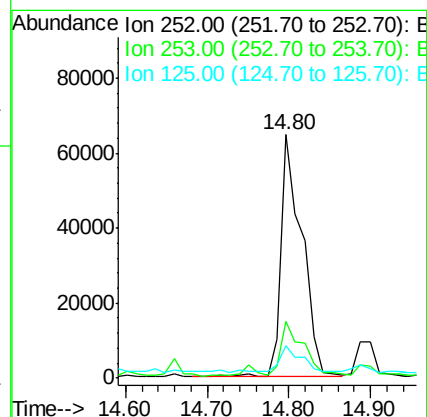
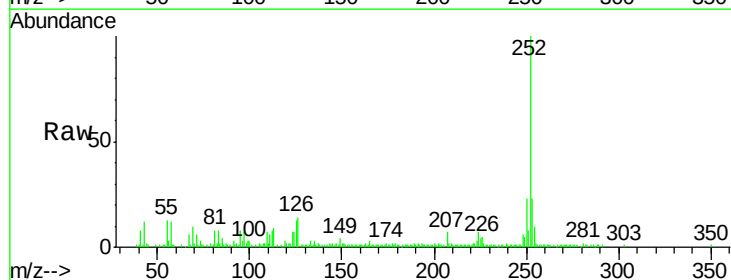
Instrument :
BNA_F
ClientSampleId :
S4-B006(10-12)

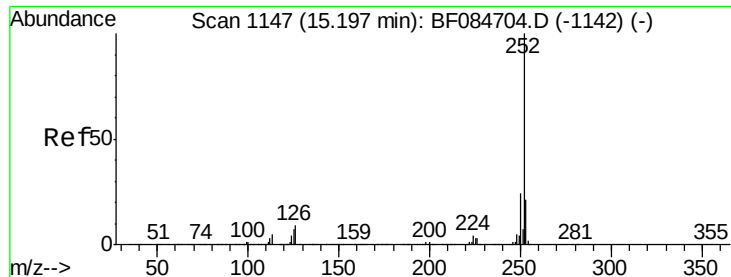
Tgt Ion:252 Resp: 116692
Ion Ratio Lower Upper
252 100
253 23.1 17.3 25.9
125 13.2 6.5 9.7#



#88
Benzo(k)fluoranthene
Concen: 6.22 ng
RT: 14.80 min Scan# 1112
Delta R.T. -0.06 min
Lab File: BF084888.D
Acq: 6 Feb 2016 4:22

Tgt Ion:252 Resp: 116692
Ion Ratio Lower Upper
252 100
253 23.1 18.1 27.1
125 13.2 9.0 13.6





#89

Benzo(a)pyrene

Concen: 3.51 ng

RT: 15.12 min Scan# 1140

Delta R.T. -0.03 min

Lab File: BF084888.D

Acq: 6 Feb 2016 4:22

Instrument :

BNA_F

ClientSampleId :

S4-B006(10-12)

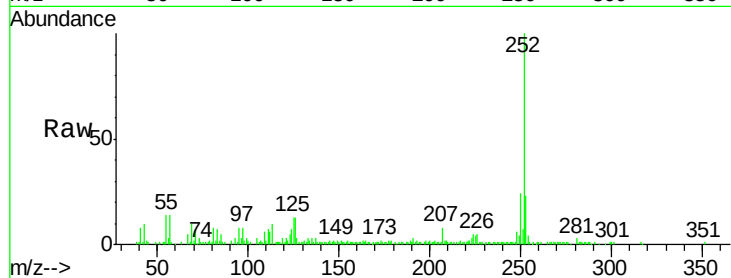
Tgt Ion:252 Resp: 67797

Ion Ratio Lower Upper

252 100

253 23.3 17.3 25.9

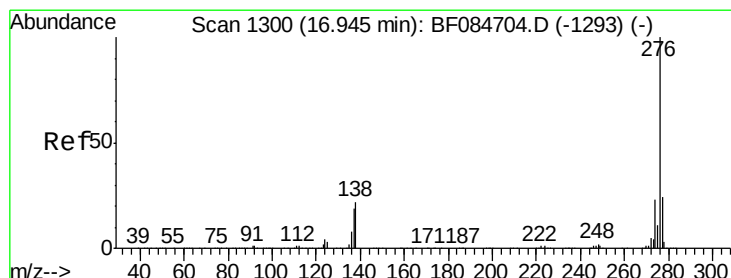
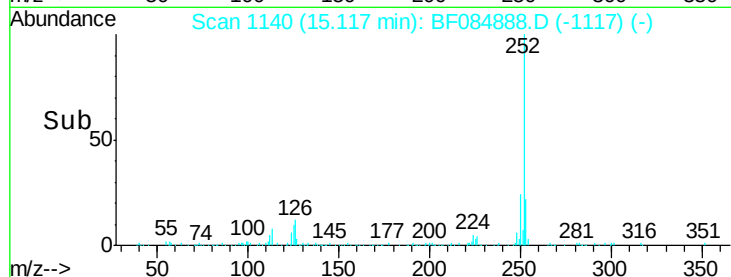
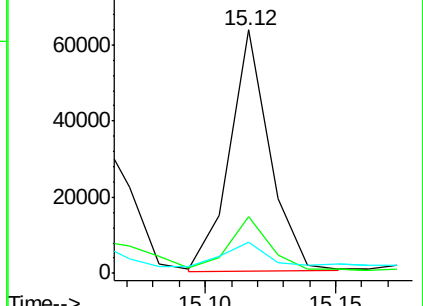
125 12.6 7.0 10.4#



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



#91

Benzo(g,h,i)perylene

Concen: 2.74 ng

RT: 16.82 min Scan# 1289

Delta R.T. -0.07 min

Lab File: BF084888.D

Acq: 6 Feb 2016 4:22

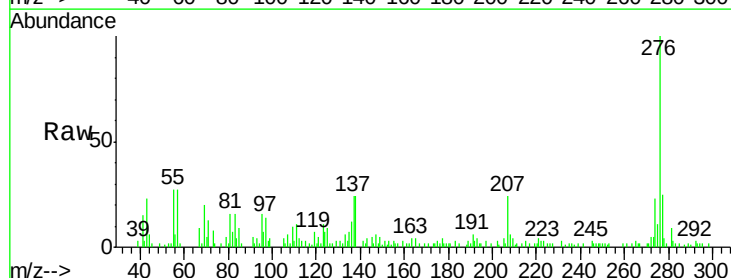
Tgt Ion:276 Resp: 44935

Ion Ratio Lower Upper

276 100

277 25.1 18.8 28.2

138 23.8 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

