

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF120915\
 Data File : BF083665.D
 Acq On : 10 Dec 2015 4:45
 Operator : UM/IZ
 Sample : G4583-06DL 2X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 SB-P3WC-06(0-5)DL

Quant Time: Dec 10 06:18:46 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 09 00:23:35 2015
 Response via : Initial Calibration

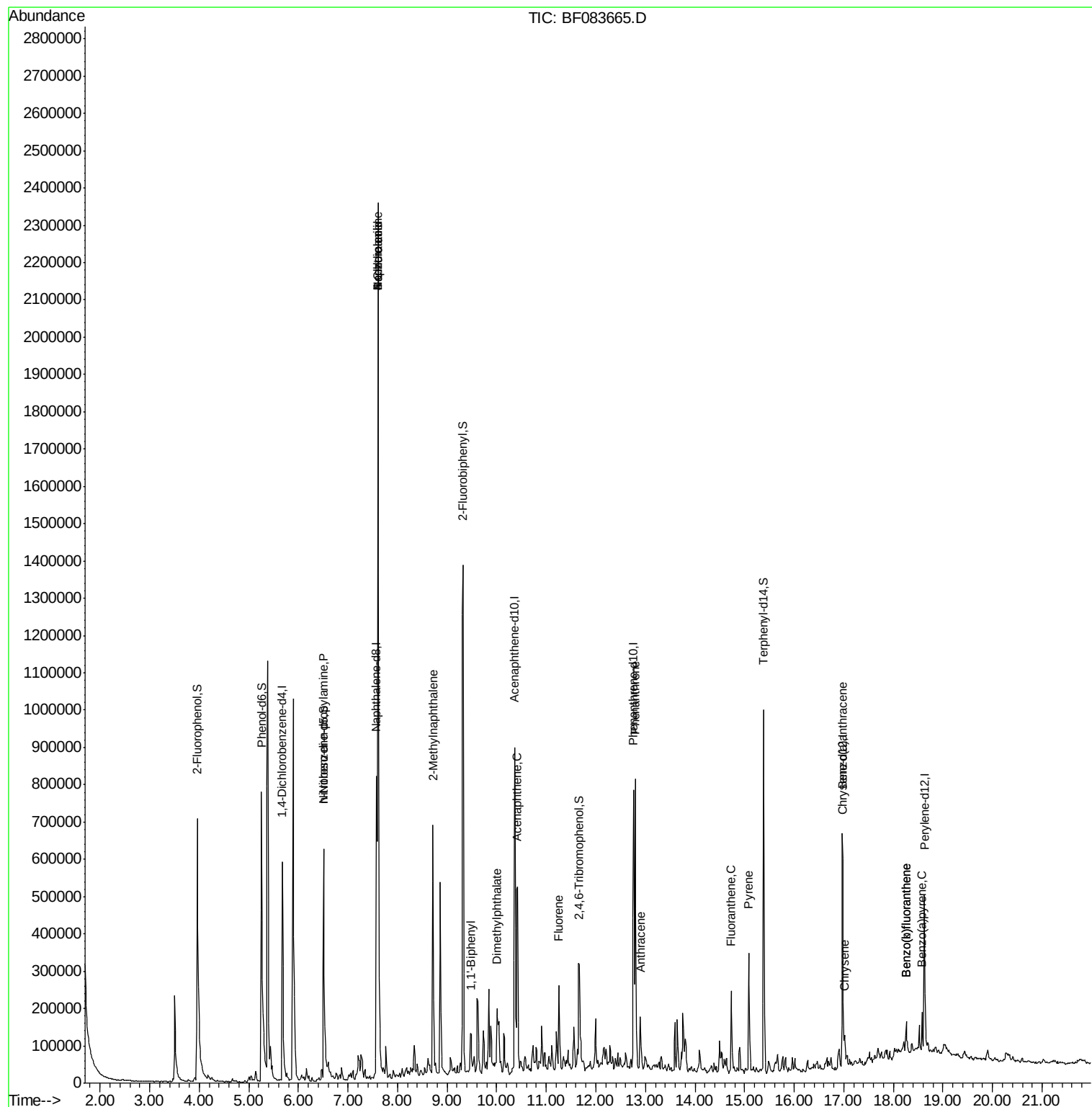
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.68	152	130323	20.00	ng	-0.02
21) Naphthalene-d8	7.57	136	505960	20.00	ng	-0.03
38) Acenaphthene-d10	10.36	164	232476	20.00	ng	-0.02
63) Phenanthrene-d10	12.76	188	364853	20.00	ng	-0.02
75) Chrysene-d12	16.98	240	298156	20.00	ng	-0.01
86) Perylene-d12	18.63	264	244885	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.96	112	423765	49.32	ng	-0.01
7) Phenol-d6	5.25	99	657036	57.23	ng	-0.02
23) Nitrobenzene-d5	6.51	82	422094	38.93	ng	-0.02
41) 2,4,6-Tribromophenol	11.66	330	63557	30.69	ng	-0.02
44) 2-Fluorobiphenyl	9.32	172	691711	41.88	ng	-0.02
78) Terphenyl-d14	15.38	244	483167	38.13	ng	-0.03
Target Compounds						
19) n-Nitroso-di-n-propylamine	6.51	70	47967	5.99	ng	Qvalue # 80
31) Naphthalene	7.61	128	1521880	56.79	ng	99
32) Benzoic acid	7.61	122	3734	3.69	ng	# 1
33) 4-Chloroaniline	7.61	127	197938	20.26	ng	# 28
37) 2-Methylnaphthalene	8.72	142	300509	17.85	ng	99
45) 1,1'-Biphenyl	9.48	154	62017	3.07	ng	96
49) Dimethylphthalate	10.01	163	80457	4.35	ng	99
51) Acenaphthene	10.42	154	189440	13.15	ng	98
57) Fluorene	11.25	166	93802	5.38	ng	99
70) Phenanthrene	12.80	178	455036	21.71	ng	98
71) Anthracene	12.90	178	111917	5.15	ng	97
74) Fluoranthene	14.73	202	155566	7.25	ng	98
77) Pyrene	15.08	202	212769	9.91	ng	98
80) Benzo(a)anthracene	16.97	228	70576	4.04	ng	# 70
82) Chrysene	17.01	228	59517	3.40	ng	95
87) Benzo(b)fluoranthene	18.26	252	54166	3.88	ng	# 94
88) Benzo(k)fluoranthene	18.26	252	54166	3.53	ng	94
89) Benzo(a)pyrene	18.58	252	39724	2.92	ng	98

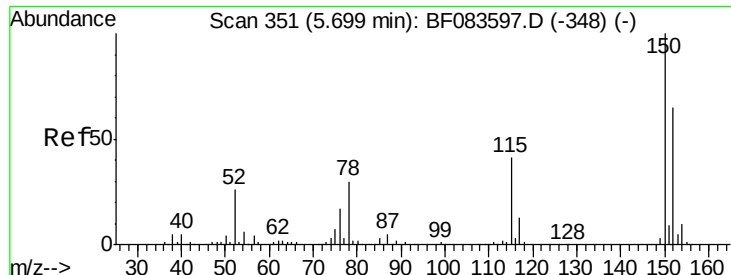
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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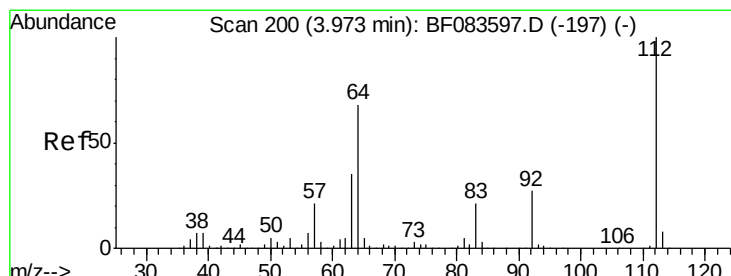
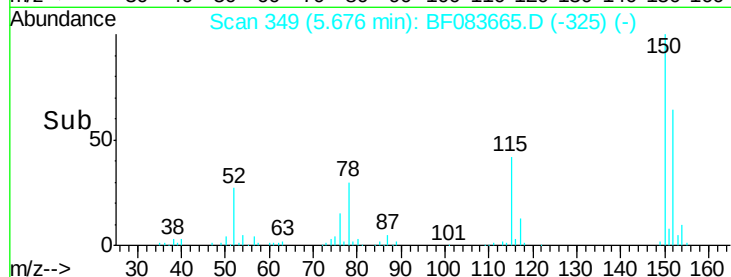
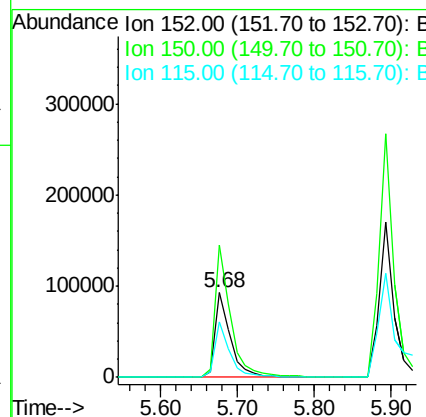
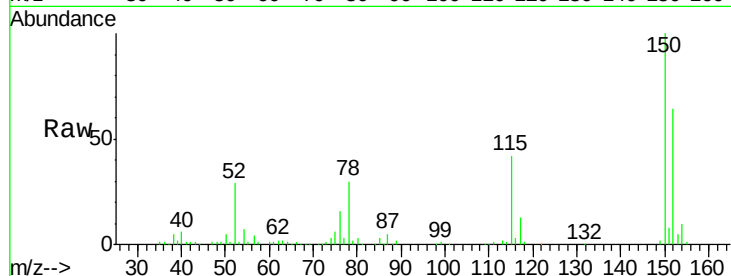




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 5.68 min Scan# 349
 Delta R.T. -0.02 min
 Lab File: BF083665.D
 Acq: 10 Dec 2015 4:45

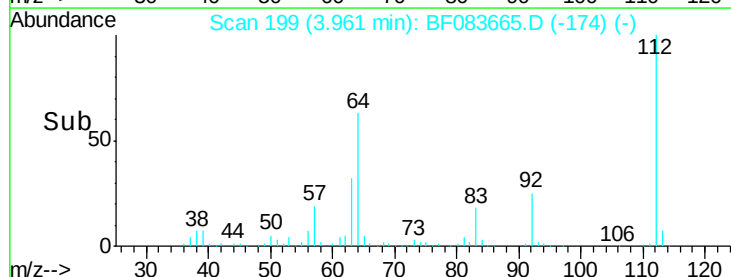
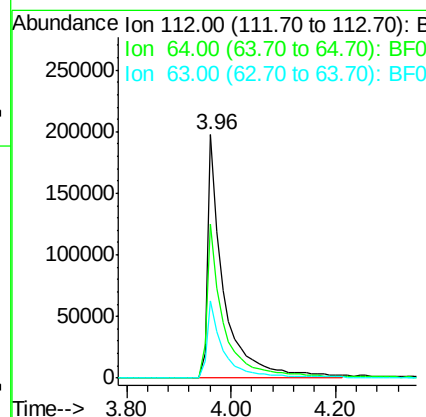
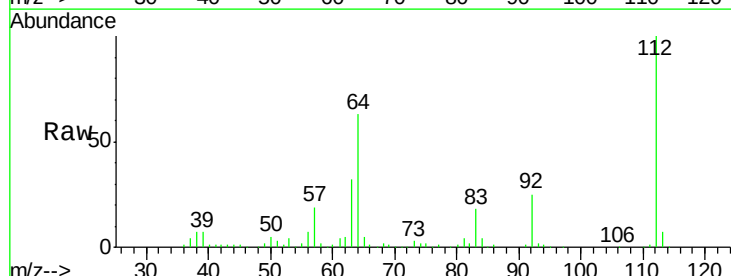
Instrument :
 BNA_M
 ClientSampleId :
 SB-P3WC-06(0-5)DL

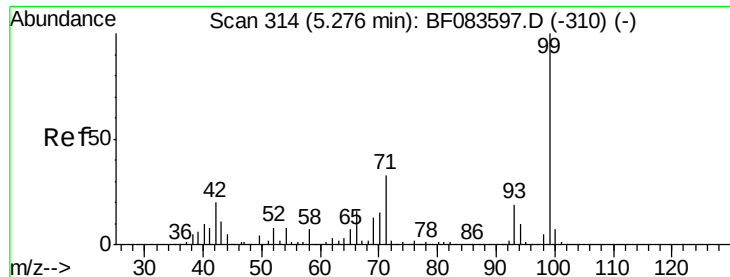
Tgt Ion:152 Resp: 130323
 Ion Ratio Lower Upper
 152 100
 150 156.4 126.5 189.7
 115 65.3 52.3 78.5



#5
 2-Fluorophenol
 Concen: 49.32 ng
 RT: 3.96 min Scan# 199
 Delta R.T. -0.01 min
 Lab File: BF083665.D
 Acq: 10 Dec 2015 4:45

Tgt Ion:112 Resp: 423765
 Ion Ratio Lower Upper
 112 100
 64 63.1 50.5 75.7
 63 31.6 25.8 38.6





#7

Phenol-d6

Concen: 57.23 ng

RT: 5.25 min Scan# 312

Delta R.T. -0.02 min

Lab File: BF083665.D

Acq: 10 Dec 2015 4:45

Instrument :

BNA_M

ClientSampleId :

SB-P3WC-06(0-5)DL

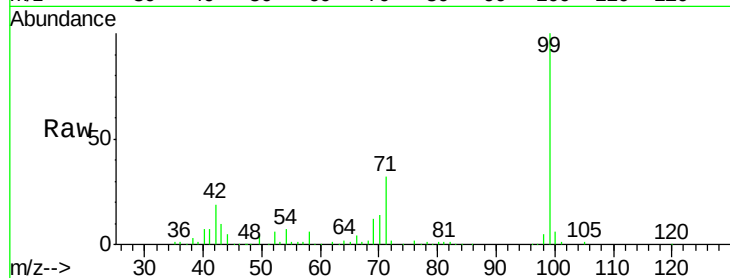
Tgt Ion: 99 Resp: 657036

Ion Ratio Lower Upper

99 100

42 18.7 17.3 25.9

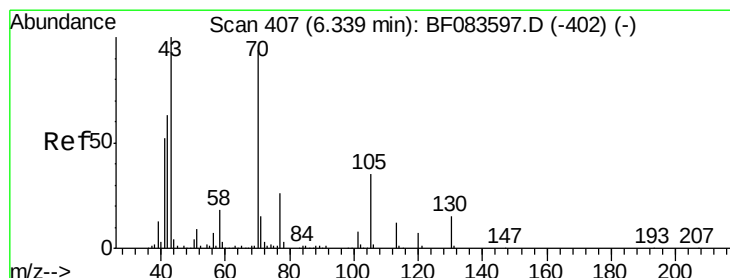
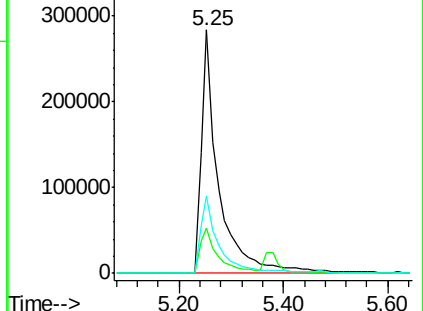
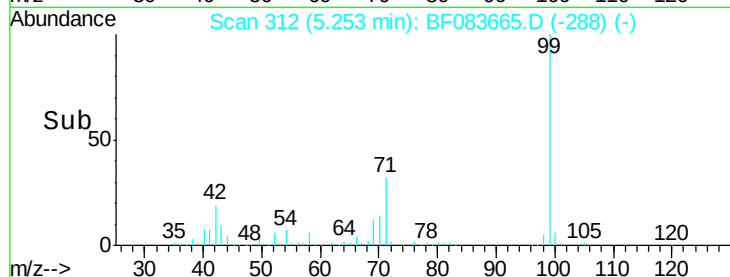
71 31.7 26.6 40.0



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#19

n-Nitroso-di-n-propylamine

Concen: 5.99 ng

RT: 6.51 min Scan# 422

Delta R.T. 0.17 min

Lab File: BF083665.D

Acq: 10 Dec 2015 4:45

Tgt Ion: 70 Resp: 47967

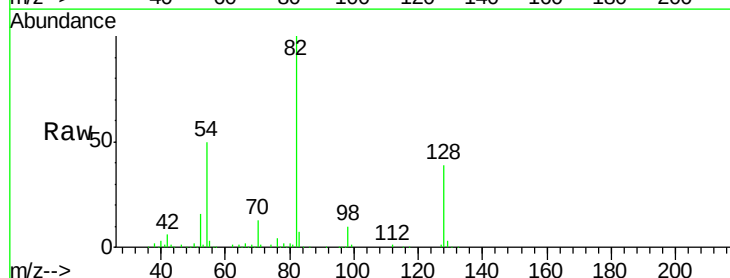
Ion Ratio Lower Upper

70 100

42 50.5 49.2 73.8

101 0.0 7.1 10.7#

130 2.1 15.4 23.0#

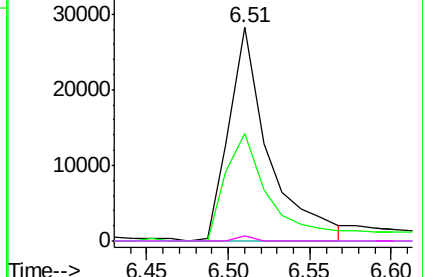
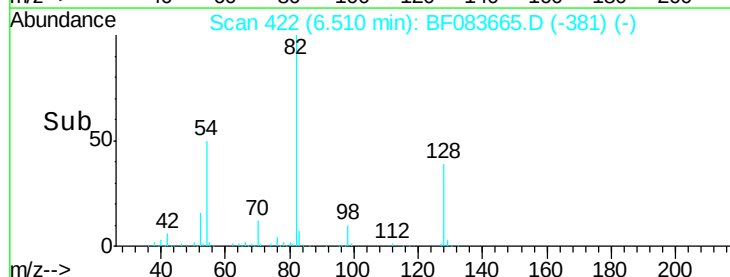


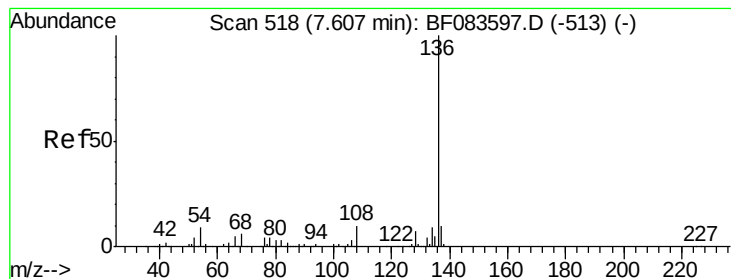
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.57 min Scan# 515

Delta R.T. -0.03 min

Lab File: BF083665.D

Acq: 10 Dec 2015 4:45

Instrument :

BNA_M

ClientSampleId :

SB-P3WC-06(0-5)DL

Tgt Ion: 136 Resp: 505960

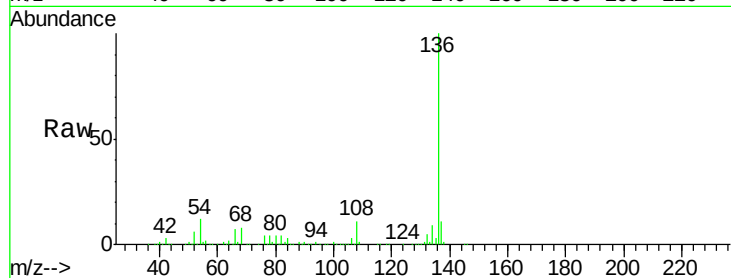
Ion Ratio Lower Upper

136 100

137 11.4 8.7 13.1

54 11.7 7.8 11.6#

68 7.6 5.7 8.5

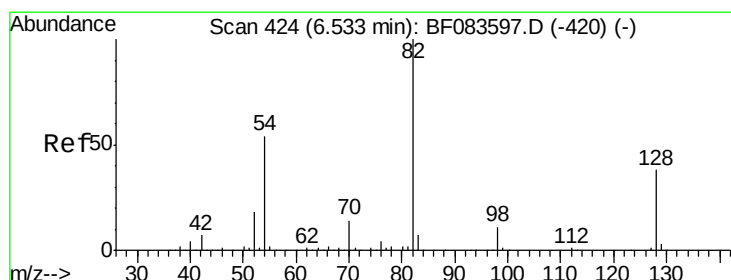
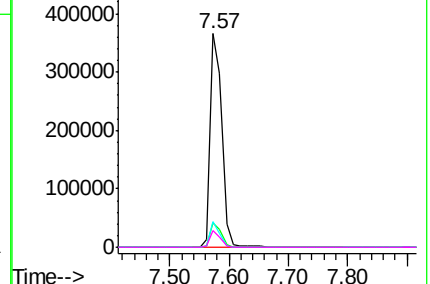
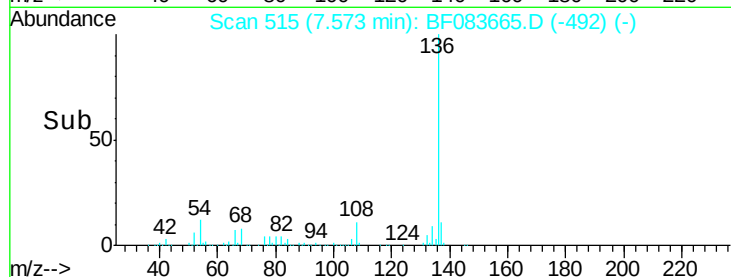


Abundance Ion 136.00 (135.70 to 136.70): E

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: 38.93 ng

RT: 6.51 min Scan# 422

Delta R.T. -0.02 min

Lab File: BF083665.D

Acq: 10 Dec 2015 4:45

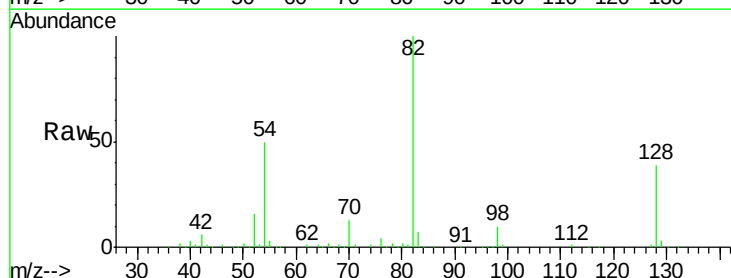
Tgt Ion: 82 Resp: 422094

Ion Ratio Lower Upper

82 100

128 39.2 30.7 46.1

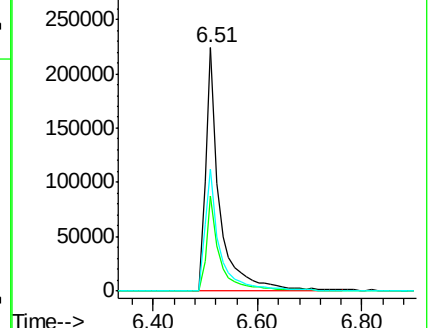
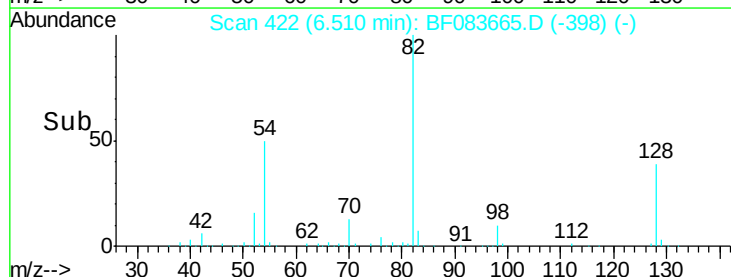
54 50.3 42.5 63.7

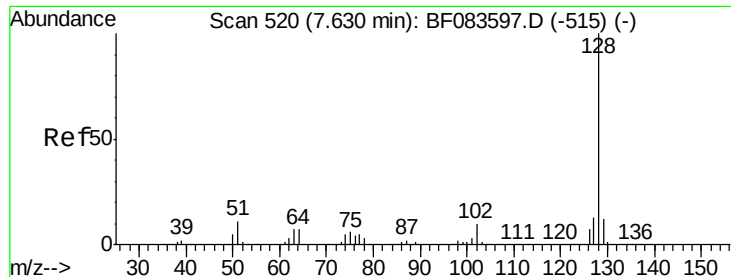


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#31

Naphthalene

Concen: 56.79 ng

RT: 7.61 min Scan# 518

Delta R.T. -0.02 min

Lab File: BF083665.D

Acq: 10 Dec 2015 4:45

Instrument :

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ClientSampleId :

SB-P3WC-06(0-5)DL

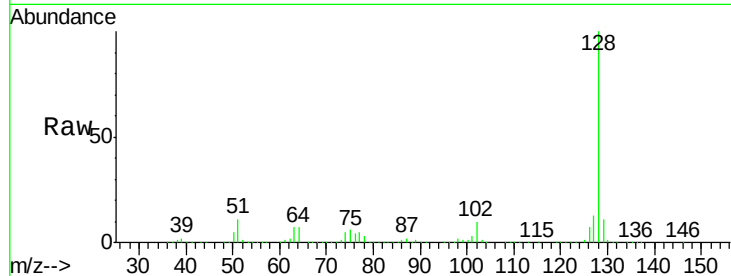
Tgt Ion:128 Resp: 1521880

Ion Ratio Lower Upper

128 100

129 11.4 8.6 13.0

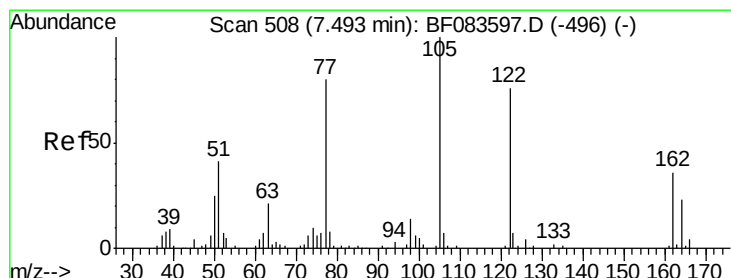
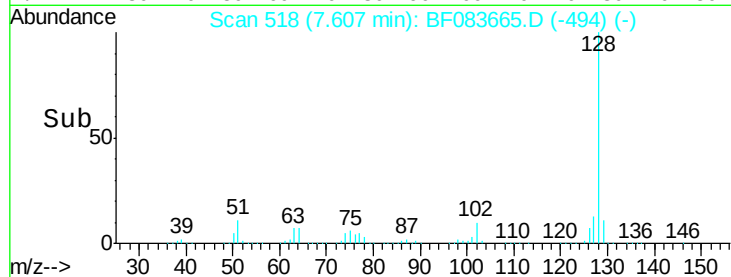
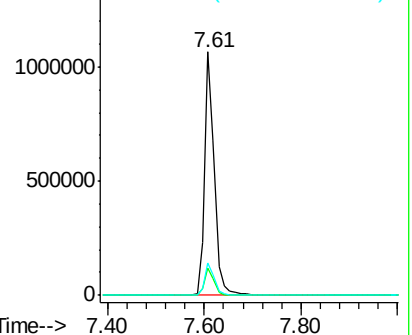
127 13.2 10.6 16.0



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#32

Benzoic acid

Concen: 3.69 ng

RT: 7.61 min Scan# 518

Delta R.T. 0.12 min

Lab File: BF083665.D

Acq: 10 Dec 2015 4:45

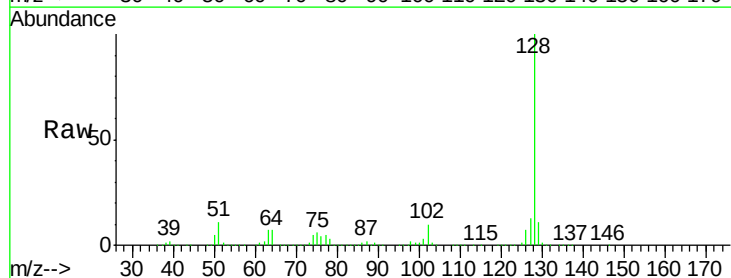
Tgt Ion:122 Resp: 3734

Ion Ratio Lower Upper

122 100

105 0.0 105.6 145.6#

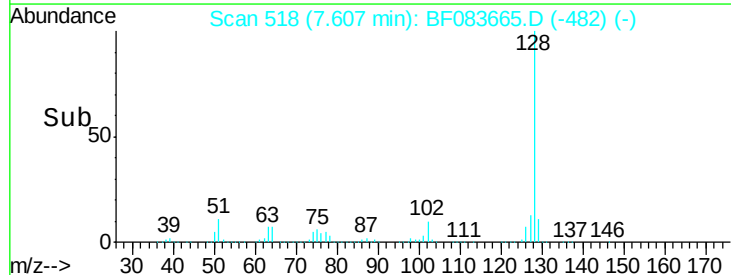
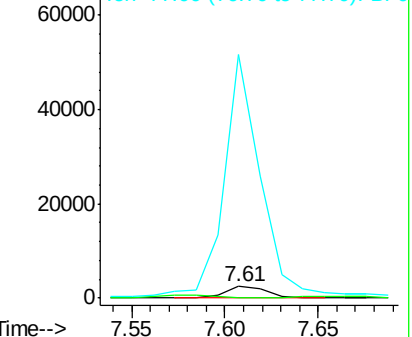
77 2063.9 86.8 126.8#

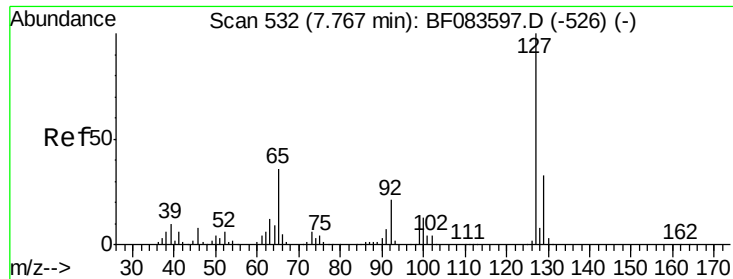


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0

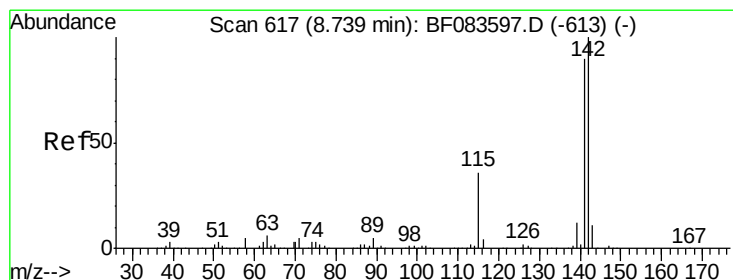
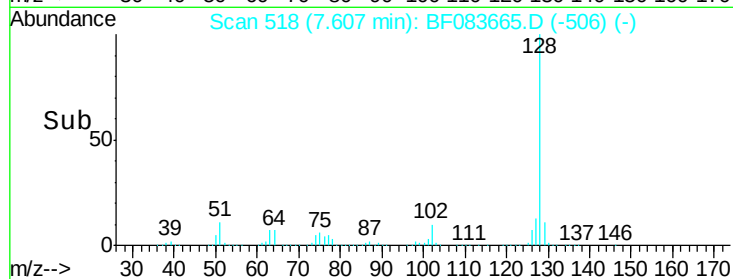
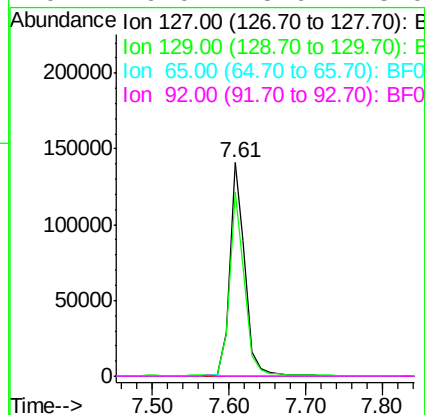
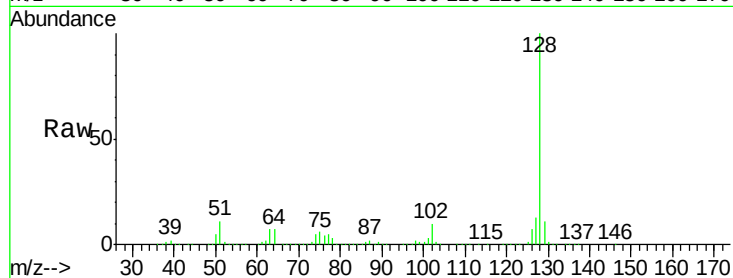




#33
 4-Chloroaniline
 Concen: 20.26 ng
 RT: 7.61 min Scan# 518
 Delta R.T. -0.16 min
 Lab File: BF083665.D
 Acq: 10 Dec 2015 4:45

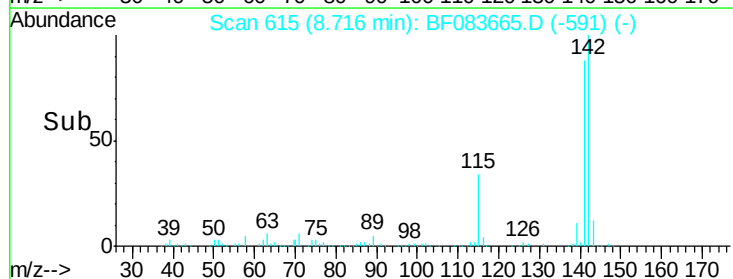
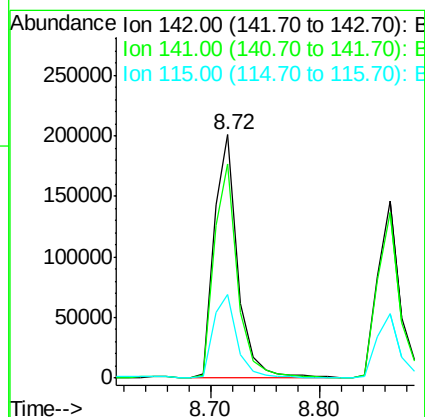
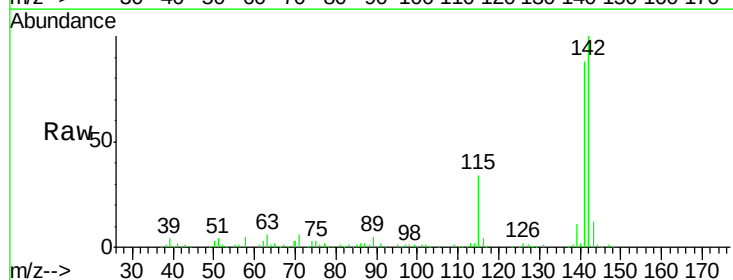
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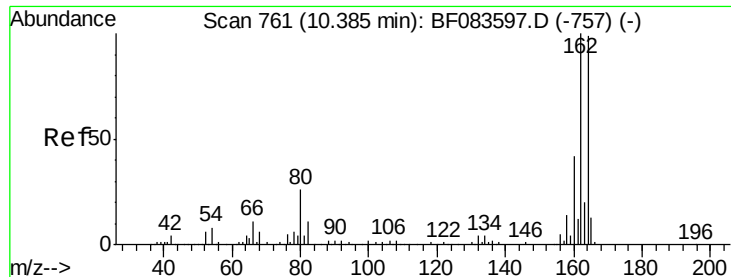
Tgt Ion:	127	Resp:	197938
Ion	Ratio	Lower	Upper
127	100		
129	86.6	26.1	39.1#
65	0.0	33.5	50.3#
92	0.0	18.6	28.0#



#37
 2-Methylnaphthalene
 Concen: 17.85 ng
 RT: 8.72 min Scan# 615
 Delta R.T. -0.02 min
 Lab File: BF083665.D
 Acq: 10 Dec 2015 4:45

Tgt Ion:	142	Resp:	300509
Ion	Ratio	Lower	Upper
142	100		
141	88.0	70.3	105.5
115	34.4	29.2	43.8

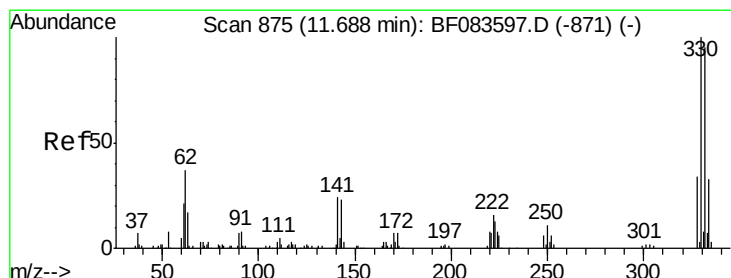
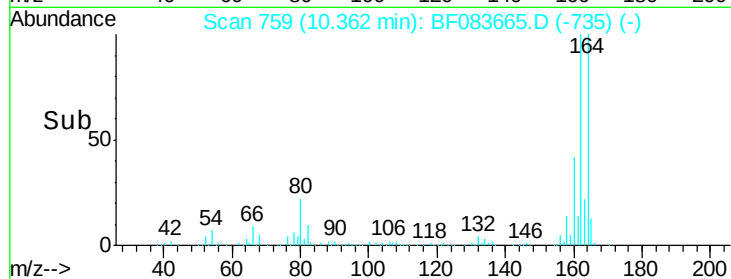
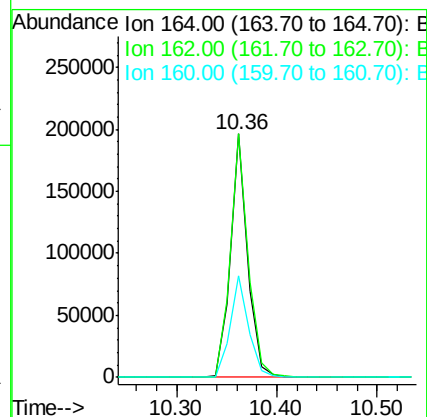
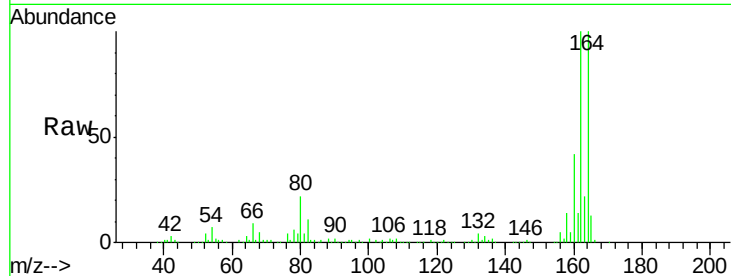




#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 10.36 min Scan# 759
 Delta R.T. -0.02 min
 Lab File: BF083665.D
 Acq: 10 Dec 2015 4:45

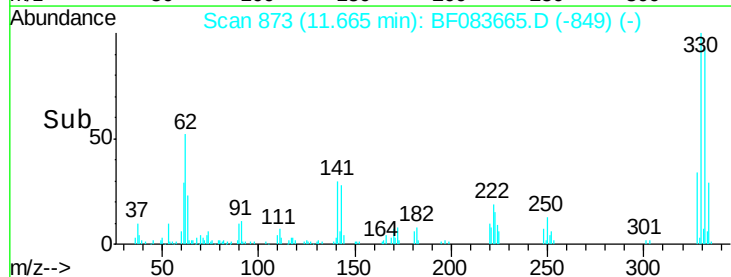
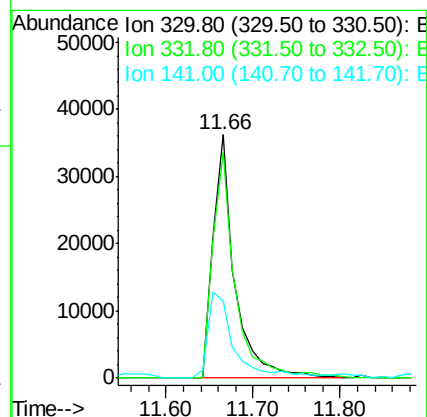
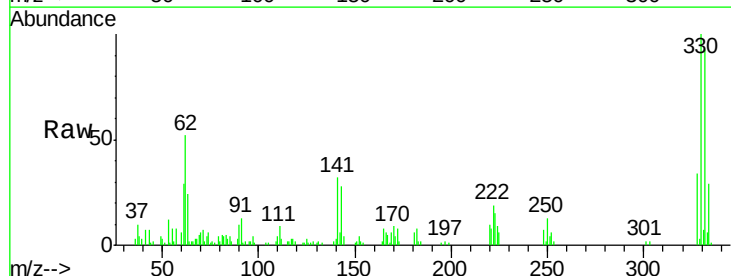
Instrument :
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 SB-P3WC-06(0-5)DL

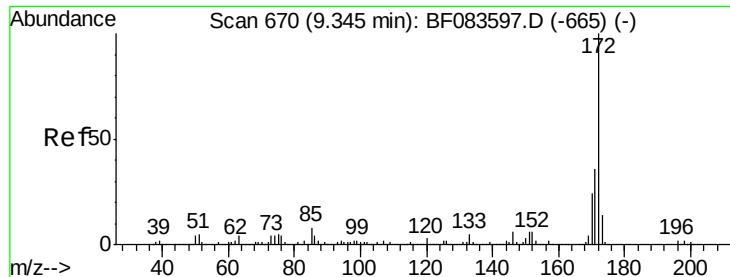
Tgt Ion:164 Resp: 232476
 Ion Ratio Lower Upper
 164 100
 162 100.0 78.8 118.2
 160 41.9 33.4 50.2



#41
 2,4,6-Tribromophenol
 Concen: 30.69 ng
 RT: 11.66 min Scan# 873
 Delta R.T. -0.02 min
 Lab File: BF083665.D
 Acq: 10 Dec 2015 4:45

Tgt Ion:330 Resp: 63557
 Ion Ratio Lower Upper
 330 100
 332 96.4 0.0 0.0#
 141 43.1 0.0 0.0#





#44

2-Fluorobiphenyl

Concen: 41.88 ng

RT: 9.32 min Scan# 668

Delta R.T. -0.02 min

Lab File: BF083665.D

Acq: 10 Dec 2015 4:45

Instrument :

BNA_M

ClientSampleId :

SB-P3WC-06(0-5)DL

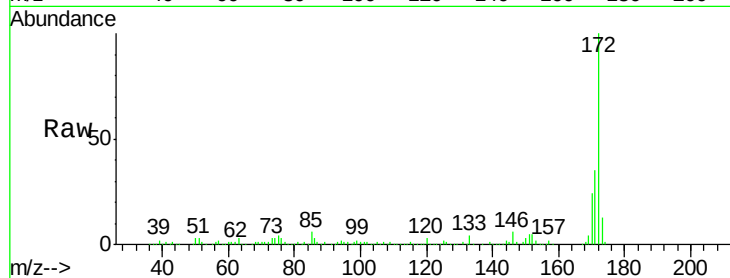
Tgt Ion:172 Resp: 691711

Ion Ratio Lower Upper

172 100

171 35.1 28.6 42.8

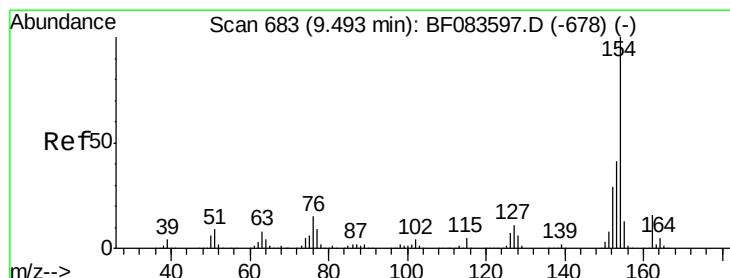
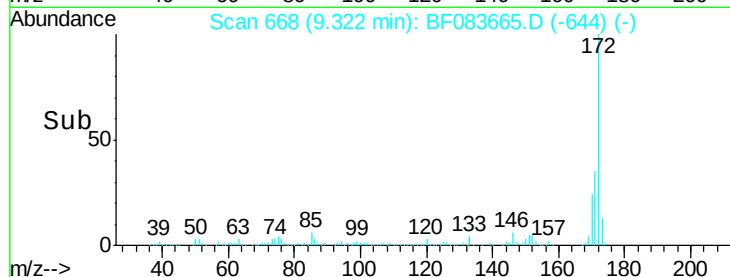
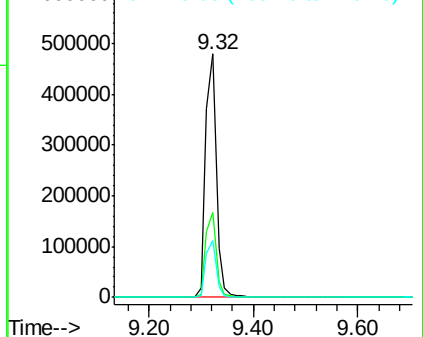
170 23.6 19.4 29.0



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#45

1,1'-Biphenyl

Concen: 3.07 ng

RT: 9.48 min Scan# 682

Delta R.T. -0.01 min

Lab File: BF083665.D

Acq: 10 Dec 2015 4:45

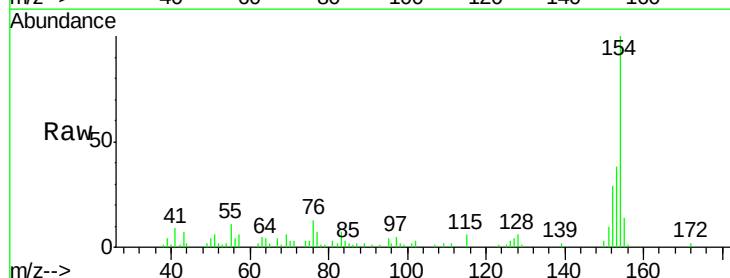
Tgt Ion:154 Resp: 62017

Ion Ratio Lower Upper

154 100

153 37.8 20.2 60.2

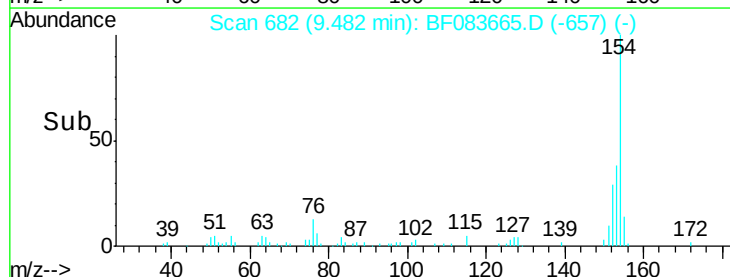
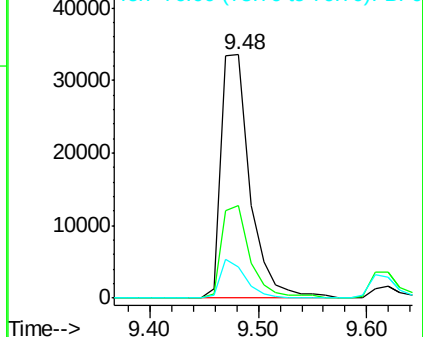
76 12.6 0.0 34.8

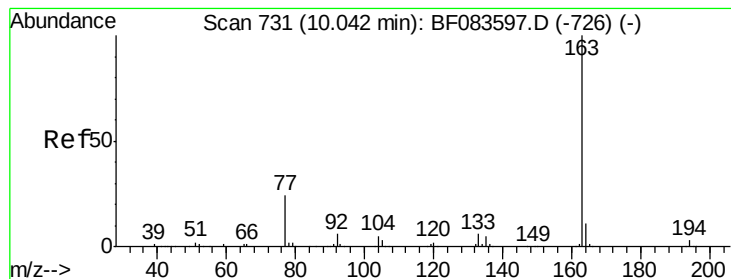


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0





#49

Dimethylphthalate

Concen: 4.35 ng

RT: 10.01 min Scan# 728

Delta R.T. -0.03 min

Lab File: BF083665.D

Acq: 10 Dec 2015 4:45

Instrument :

BNA_M

ClientSampleId :

SB-P3WC-06(0-5)DL

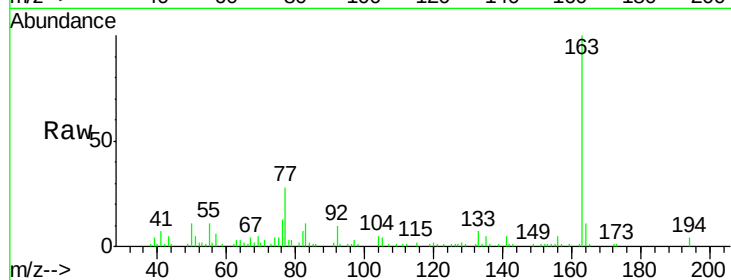
Tgt Ion:163 Resp: 80457

Ion Ratio Lower Upper

163 100

194 3.6 2.8 4.2

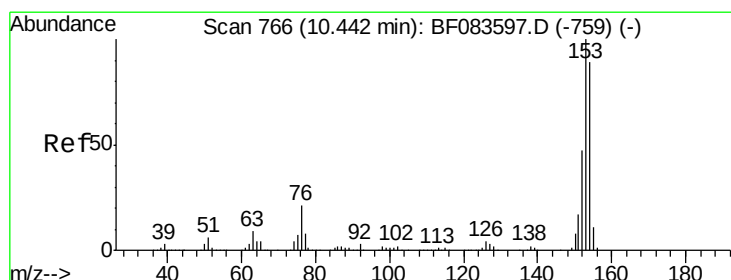
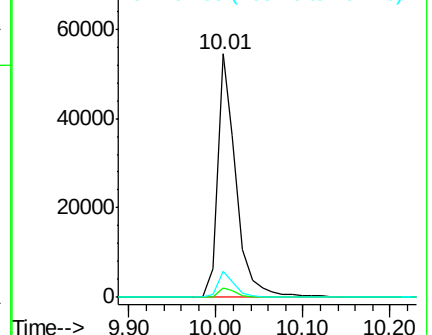
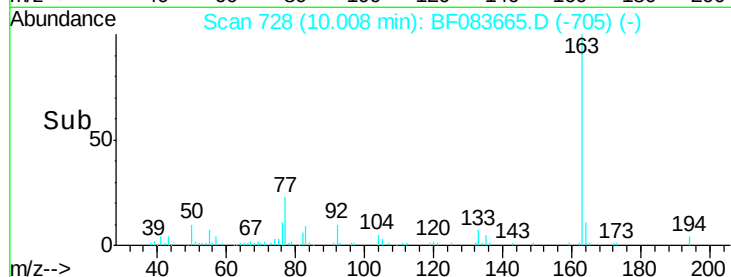
164 10.5 8.6 13.0



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



#51

Acenaphthene

Concen: 13.15 ng

RT: 10.42 min Scan# 764

Delta R.T. -0.02 min

Lab File: BF083665.D

Acq: 10 Dec 2015 4:45

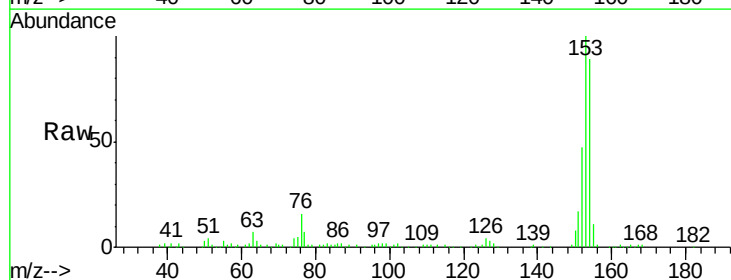
Tgt Ion:154 Resp: 189440

Ion Ratio Lower Upper

154 100

153 112.9 91.4 137.0

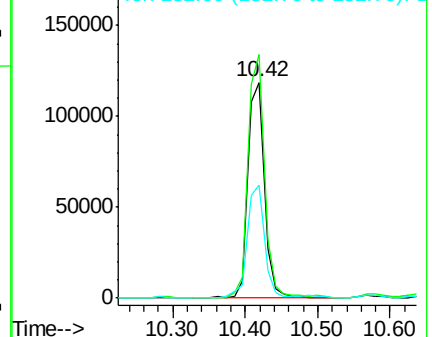
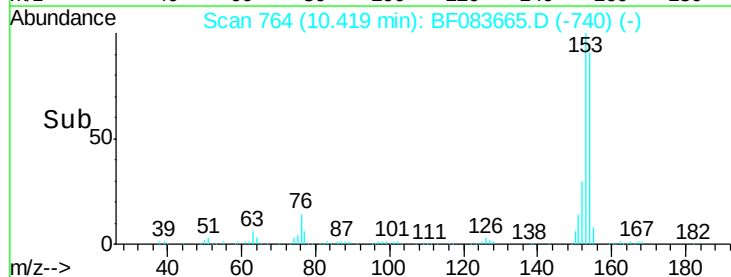
152 52.5 43.4 65.2

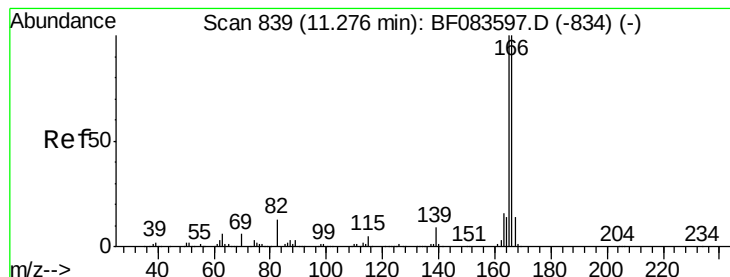


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#57

Fluorene

Concen: 5.38 ng

RT: 11.25 min Scan# 837

Delta R.T. -0.02 min

Lab File: BF083665.D

Acq: 10 Dec 2015 4:45

Instrument :

BNA_M

ClientSampleId :

SB-P3WC-06(0-5)DL

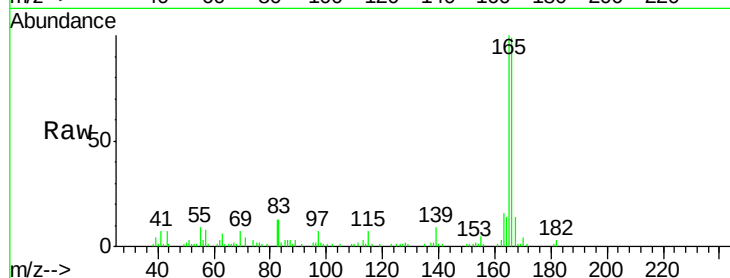
Tgt Ion:166 Resp: 93802

Ion Ratio Lower Upper

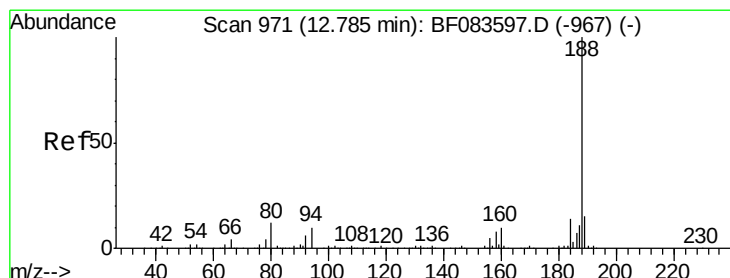
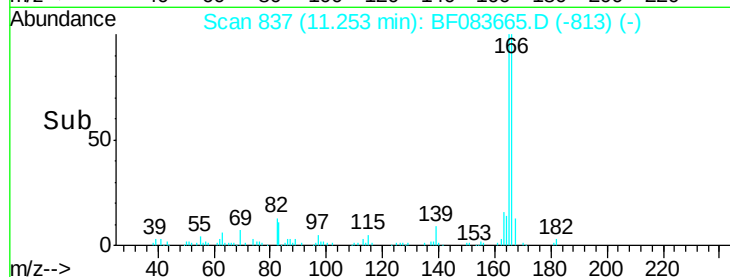
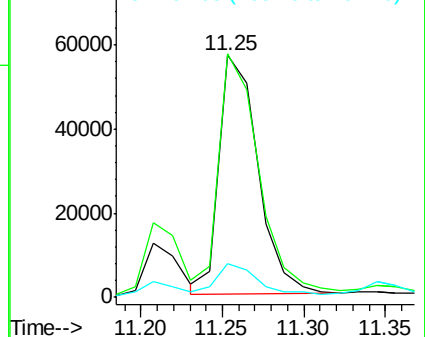
166 100

165 100.6 80.0 120.0

167 13.8 10.6 16.0



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: 12.76 min Scan# 969

Delta R.T. -0.02 min

Lab File: BF083665.D

Acq: 10 Dec 2015 4:45

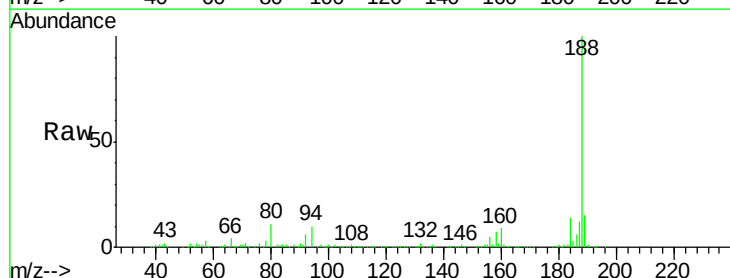
Tgt Ion:188 Resp: 364853

Ion Ratio Lower Upper

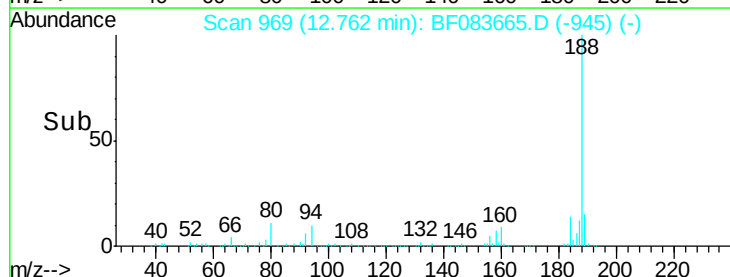
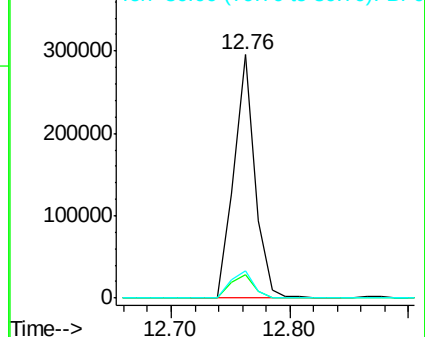
188 100

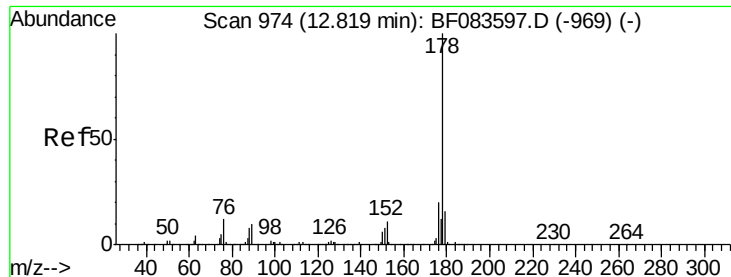
94 9.7 9.4 14.2

80 11.1 10.6 16.0



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

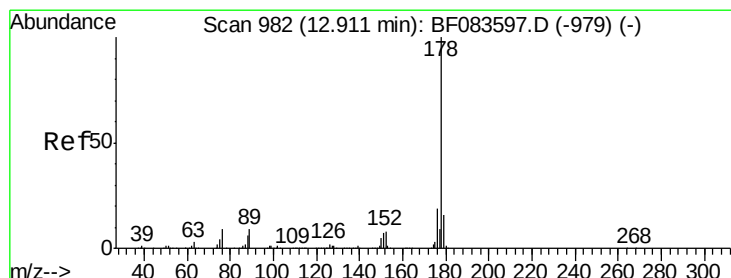
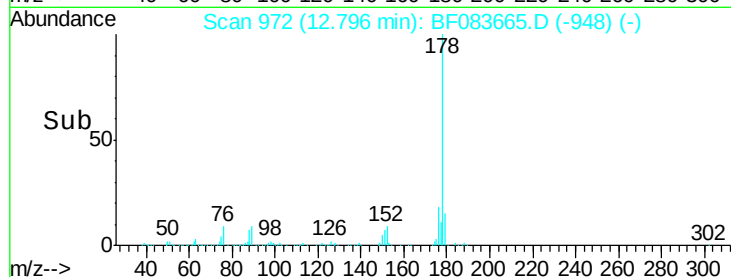
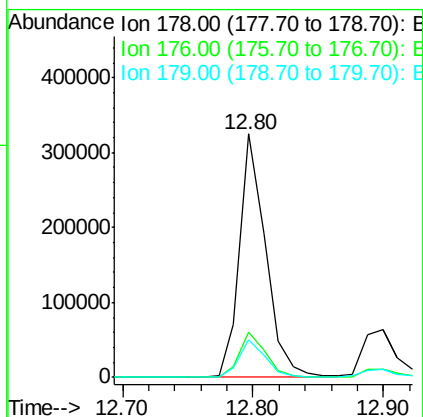
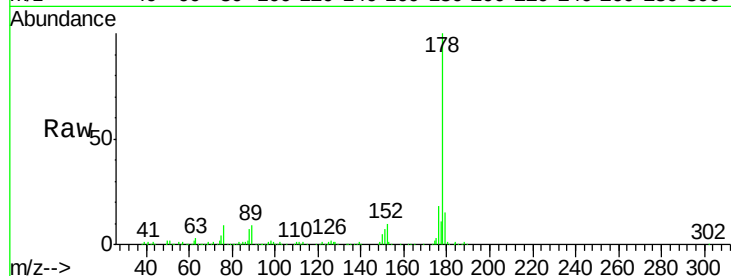




#70
Phenanthrene
Concen: 21.71 ng
RT: 12.80 min Scan# 972
Delta R.T. -0.02 min
Lab File: BF083665.D
Acq: 10 Dec 2015 4:45

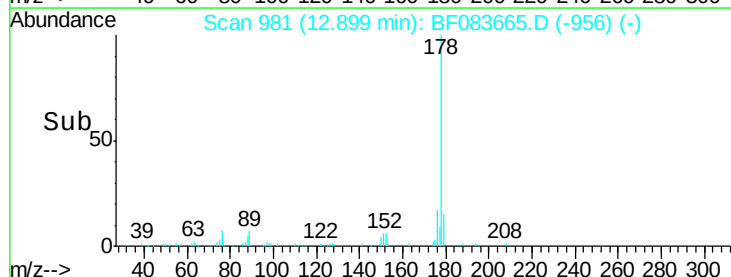
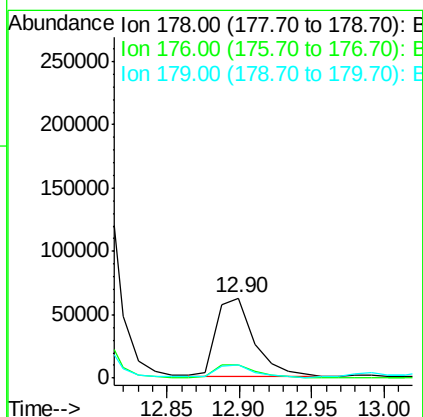
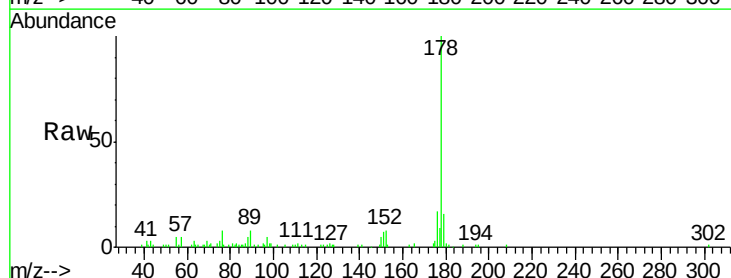
Instrument :
BNA_M
ClientSampleId :
SB-P3WC-06(0-5)DL

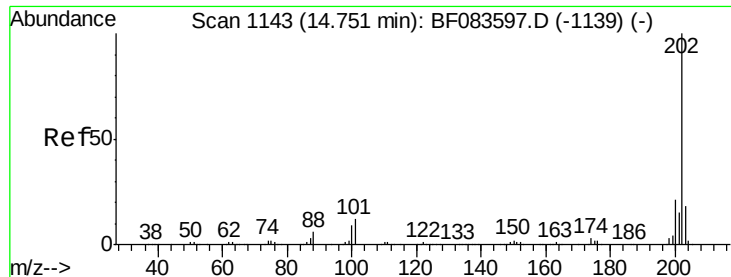
Tgt Ion:178 Resp: 455036
Ion Ratio Lower Upper
178 100
176 18.4 15.7 23.5
179 15.4 12.2 18.4



#71
Anthracene
Concen: 5.15 ng
RT: 12.90 min Scan# 981
Delta R.T. -0.01 min
Lab File: BF083665.D
Acq: 10 Dec 2015 4:45

Tgt Ion:178 Resp: 111917
Ion Ratio Lower Upper
178 100
176 17.2 15.2 22.8
179 16.1 12.6 18.8

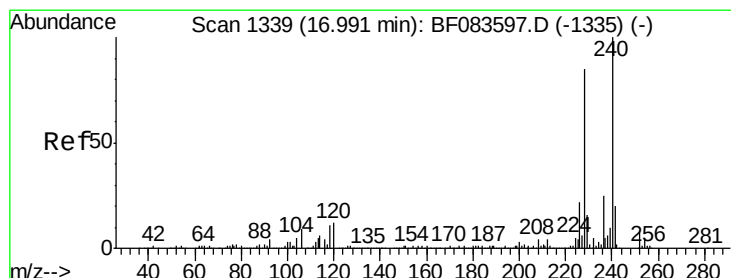
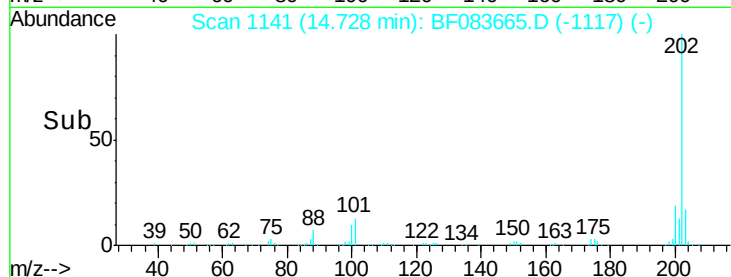
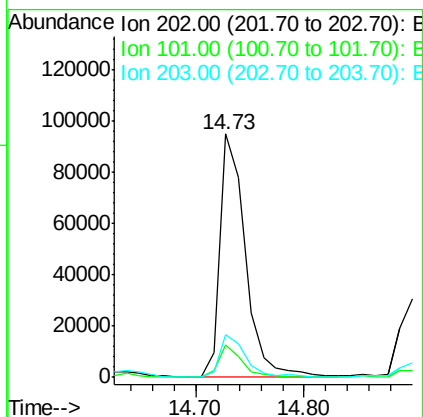
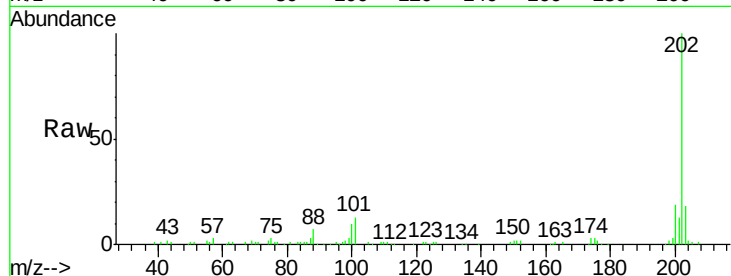




#74
 Fluoranthene
 Concen: 7.25 ng
 RT: 14.73 min Scan# 1141
 Delta R.T. -0.02 min
 Lab File: BF083665.D
 Acq: 10 Dec 2015 4:45

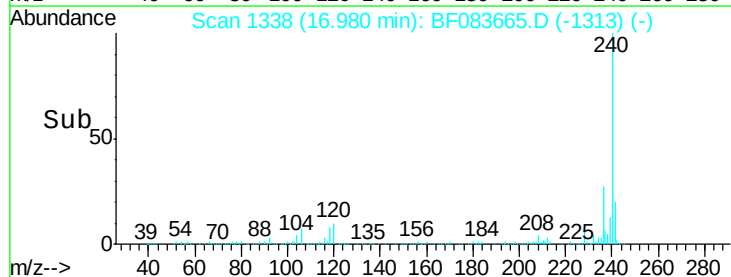
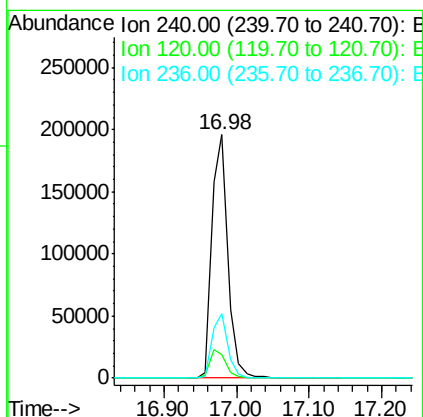
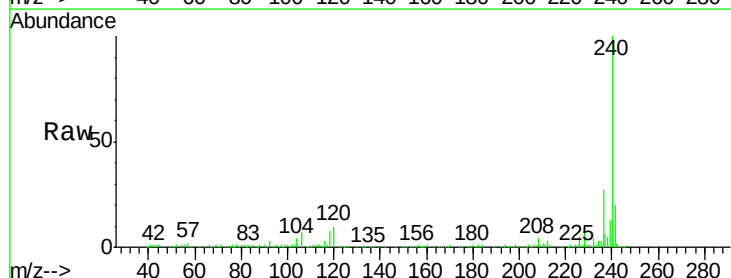
Instrument :
 BNA_M
 ClientSampleId :
 SB-P3WC-06(0-5)DL

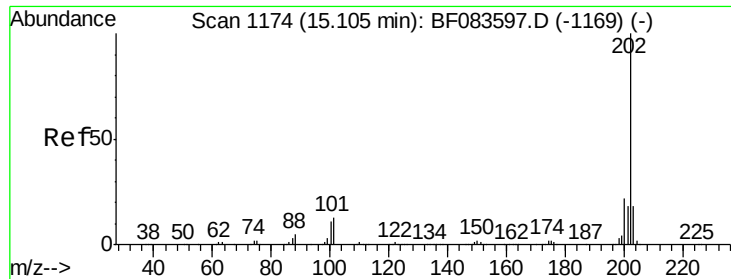
Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.3	0.0	31.5
203	17.5	0.0	37.6



#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 16.98 min Scan# 1338
 Delta R.T. -0.01 min
 Lab File: BF083665.D
 Acq: 10 Dec 2015 4:45

Tgt Ion	Ratio	Lower	Upper
240	100		
120	9.6	8.1	12.1
236	26.7	20.8	31.2

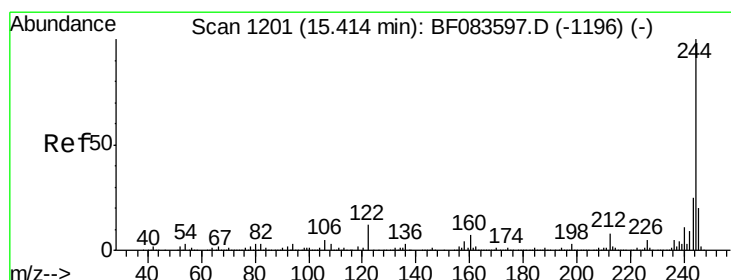
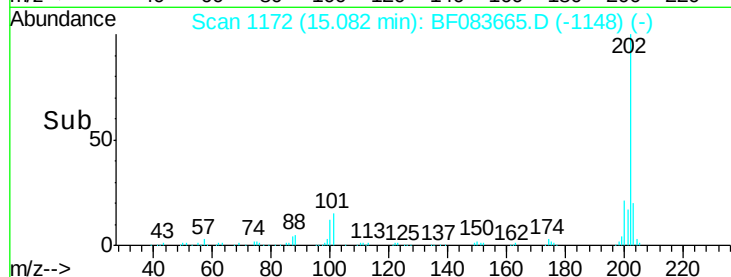
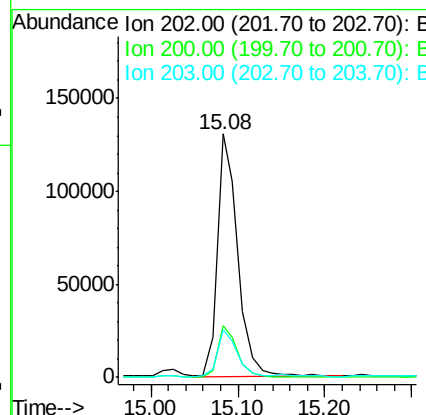
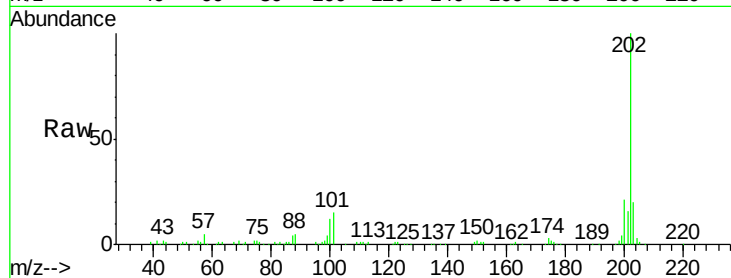




#77
 Pyrene
 Concen: 9.91 ng
 RT: 15.08 min Scan# 1172
 Delta R.T. -0.02 min
 Lab File: BF083665.D
 Acq: 10 Dec 2015 4:45

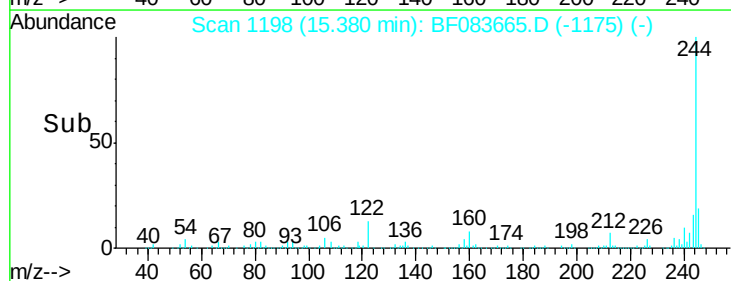
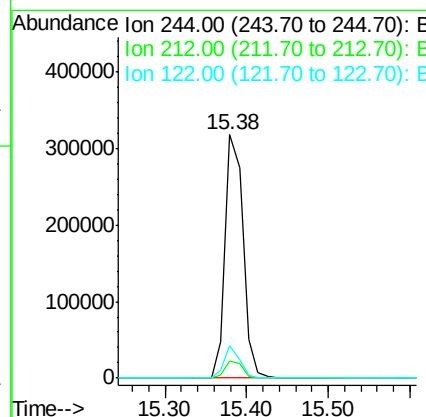
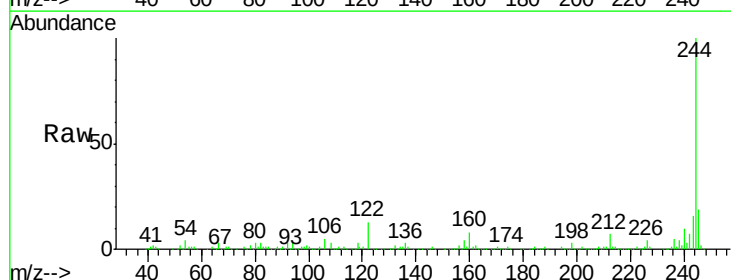
Instrument :
 BNA_M
 ClientSampleId :
 SB-P3WC-06(0-5)DL

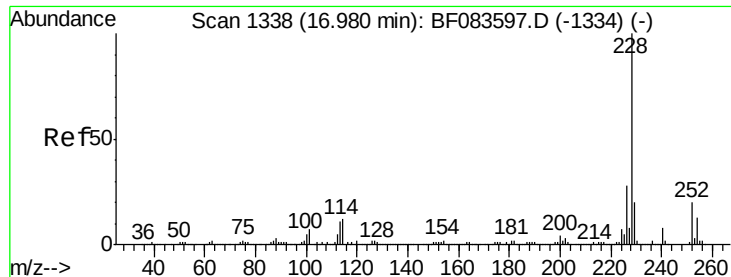
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.7	25.1
203	19.7	14.3	21.5



#78
 Terphenyl-d14
 Concen: 38.13 ng
 RT: 15.38 min Scan# 1198
 Delta R.T. -0.03 min
 Lab File: BF083665.D
 Acq: 10 Dec 2015 4:45

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.0	6.1	9.1
122	13.4	11.0	16.6





#80

Benzo(a)anthracene

Concen: 4.04 ng

RT: 16.97 min Scan# 1337

Delta R.T. -0.01 min

Lab File: BF083665.D

Acq: 10 Dec 2015 4:45

Instrument :

BNA_M

ClientSampleId :

SB-P3WC-06(0-5)DL

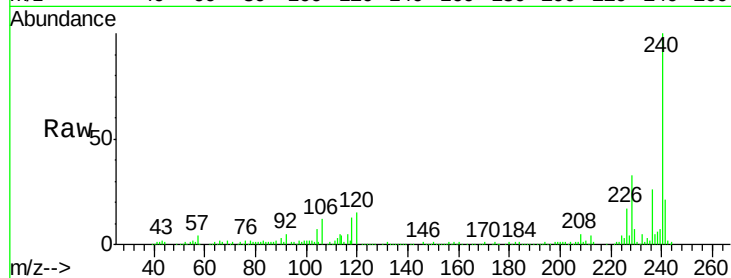
Tgt Ion:228 Resp: 70576

Ion Ratio Lower Upper

228 100

226 53.7 22.3 33.5#

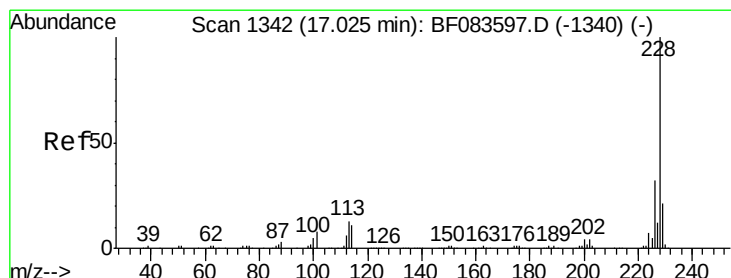
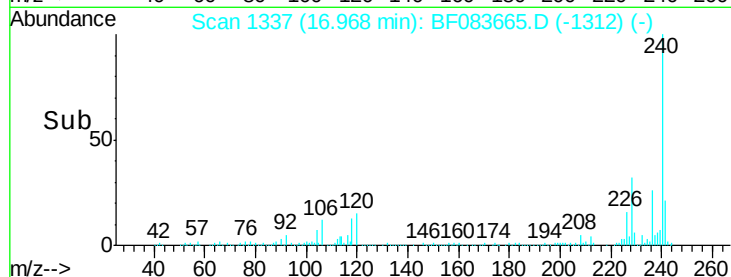
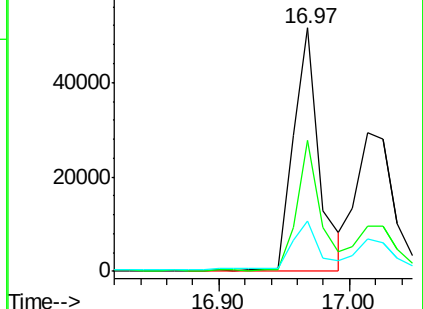
229 20.8 15.7 23.5



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: 3.40 ng

RT: 17.01 min Scan# 1341

Delta R.T. -0.01 min

Lab File: BF083665.D

Acq: 10 Dec 2015 4:45

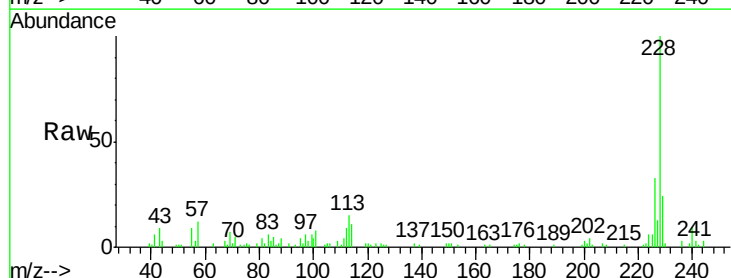
Tgt Ion:228 Resp: 59517

Ion Ratio Lower Upper

228 100

226 32.6 24.7 37.1

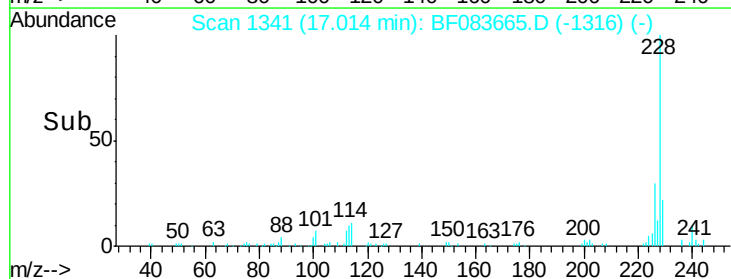
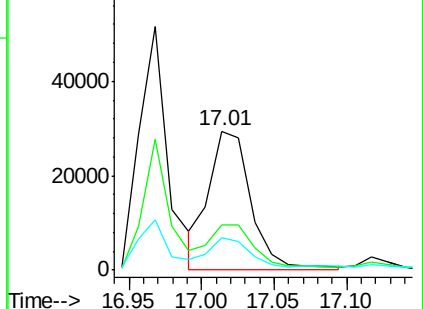
229 23.6 16.3 24.5

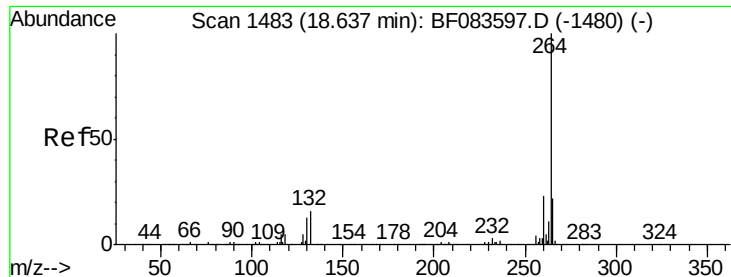


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#86

Perylene-d12

Concen: 20.00 ng

RT: 18.63 min Scan# 1482

Delta R.T. -0.01 min

Lab File: BF083665.D

Acq: 10 Dec 2015 4:45

Instrument :

BNA_M

ClientSampleId :

SB-P3WC-06(0-5)DL

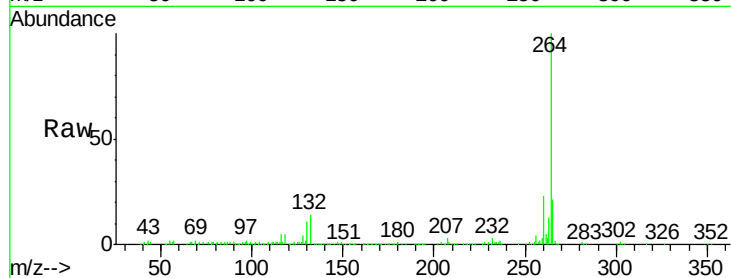
Tgt Ion:264 Resp: 244885

Ion Ratio Lower Upper

264 100

260 22.8 19.4 29.0

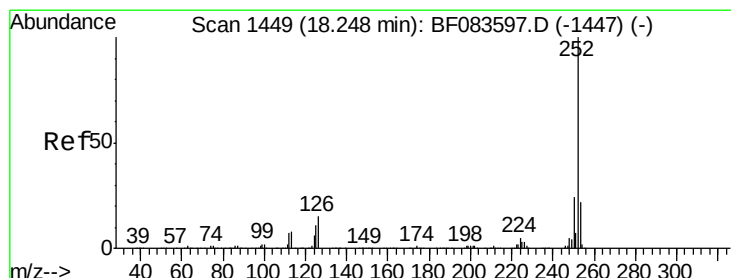
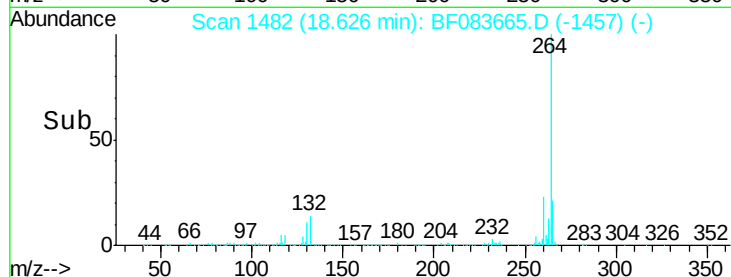
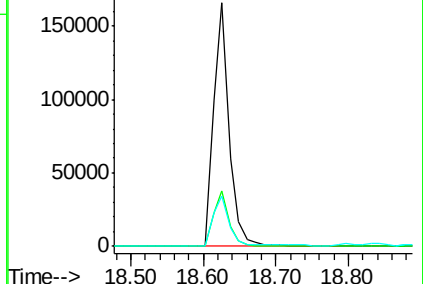
265 20.8 17.8 26.6



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: 3.88 ng

RT: 18.26 min Scan# 1450

Delta R.T. 0.01 min

Lab File: BF083665.D

Acq: 10 Dec 2015 4:45

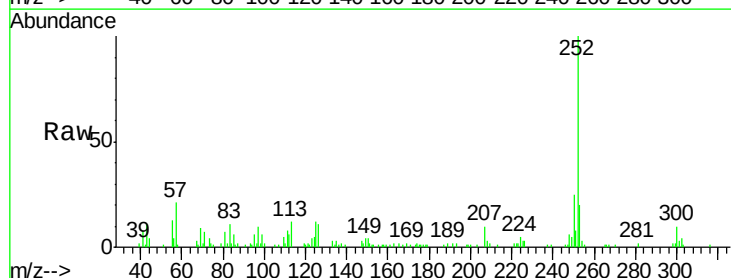
Tgt Ion:252 Resp: 54166

Ion Ratio Lower Upper

252 100

253 19.7 18.2 27.4

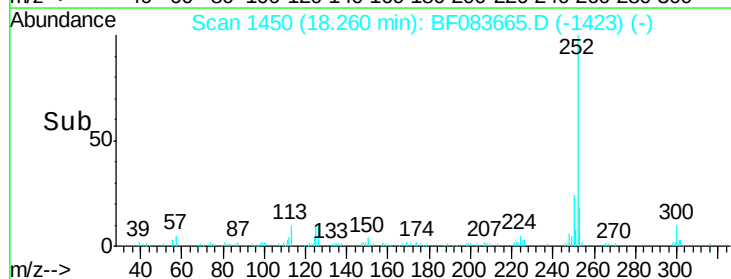
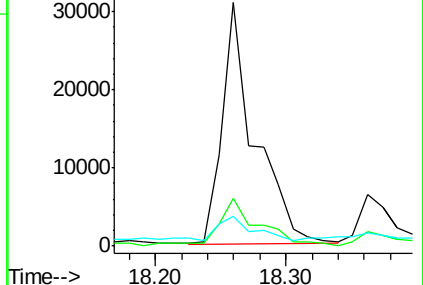
125 12.5 8.2 12.4#

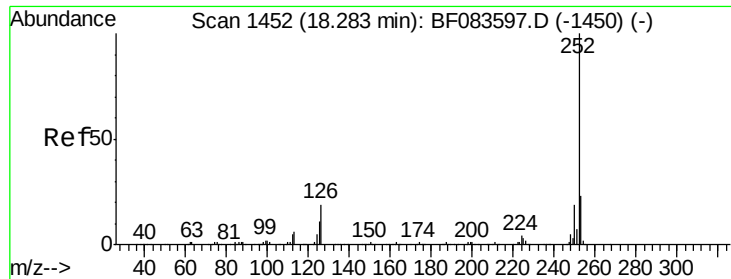


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 3.53 ng

RT: 18.26 min Scan# 1450

Delta R.T. -0.02 min

Lab File: BF083665.D

Acq: 10 Dec 2015 4:45

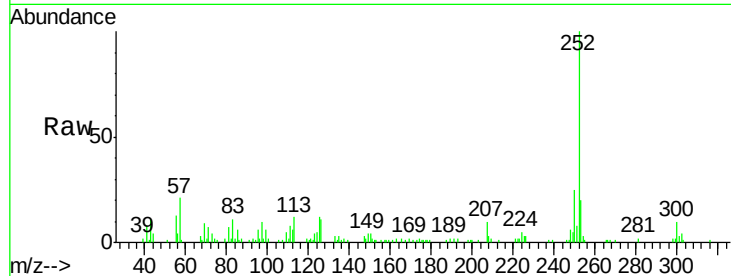
Instrument :

BNA_M

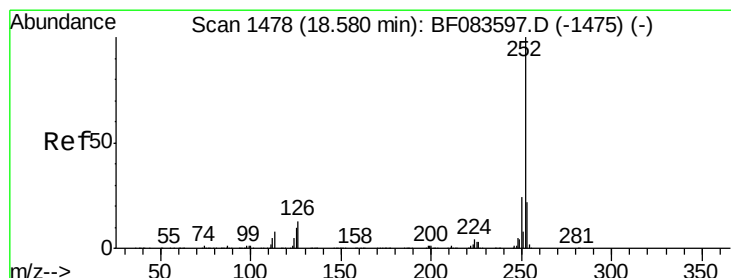
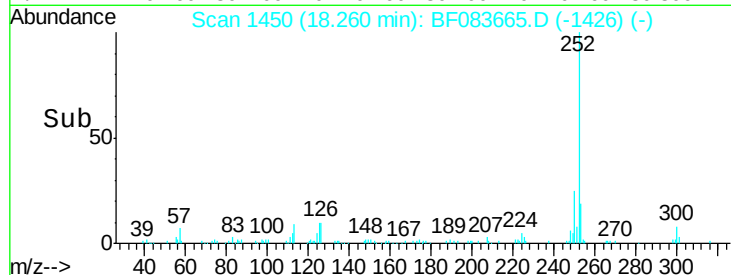
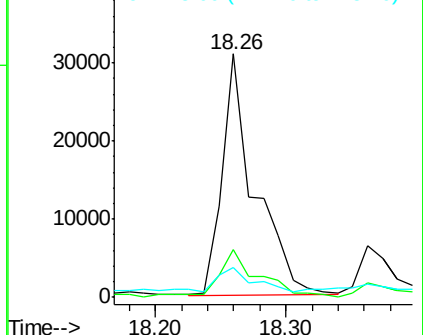
ClientSampleId :

SB-P3WC-06(0-5)DL

Tgt Ion:	252	Resp:	54166
Ion Ratio	Lower	Upper	
252	100		
253	19.7	18.6	27.8
125	12.5	11.5	17.3



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: 2.92 ng

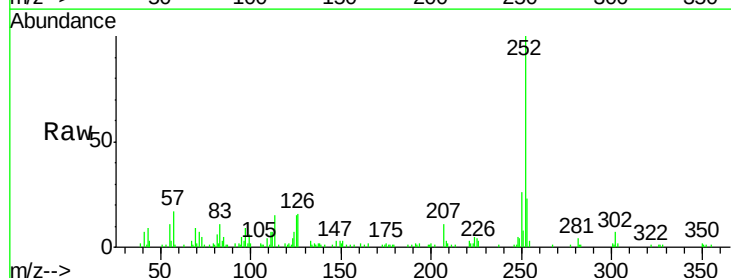
RT: 18.58 min Scan# 1478

Delta R.T. 0.00 min

Lab File: BF083665.D

Acq: 10 Dec 2015 4:45

Tgt Ion:	252	Resp:	39724
Ion Ratio	Lower	Upper	
252	100		
253	22.6	17.5	26.3
125	14.6	11.0	16.6



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

