

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF120915\
 Data File : BF083661.D
 Acq On : 10 Dec 2015 2:46
 Operator : UM/IZ
 Sample : G4584-08DL 10X
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 SB-P3WC-15(0-8)DL

Quant Time: Dec 10 04:37:51 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	142705	20.00	ng	-0.02
21) Naphthalene-d8	7.57	136	560018	20.00	ng	-0.03
38) Acenaphthene-d10	10.36	164	251019	20.00	ng	-0.02
63) Phenanthrene-d10	12.76	188	404014	20.00	ng	-0.02
75) Chrysene-d12	16.98	240	356530	20.00	ng	-0.01
86) Perylene-d12	18.63	264	282526	20.00	ng	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	4.10	112	7043	0.75	ng	0.13
7) Phenol-d6	5.37	99	23071	1.84	ng	0.09
23) Nitrobenzene-d5	6.59	82	18368	1.53	ng	0.06
41) 2,4,6-Tribromophenol	11.70	330	2530	1.13	ng	0.01
44) 2-Fluorobiphenyl	9.32	172	38064	2.13	ng	-0.02
78) Terphenyl-d14	15.39	244	27543	1.82	ng	-0.02

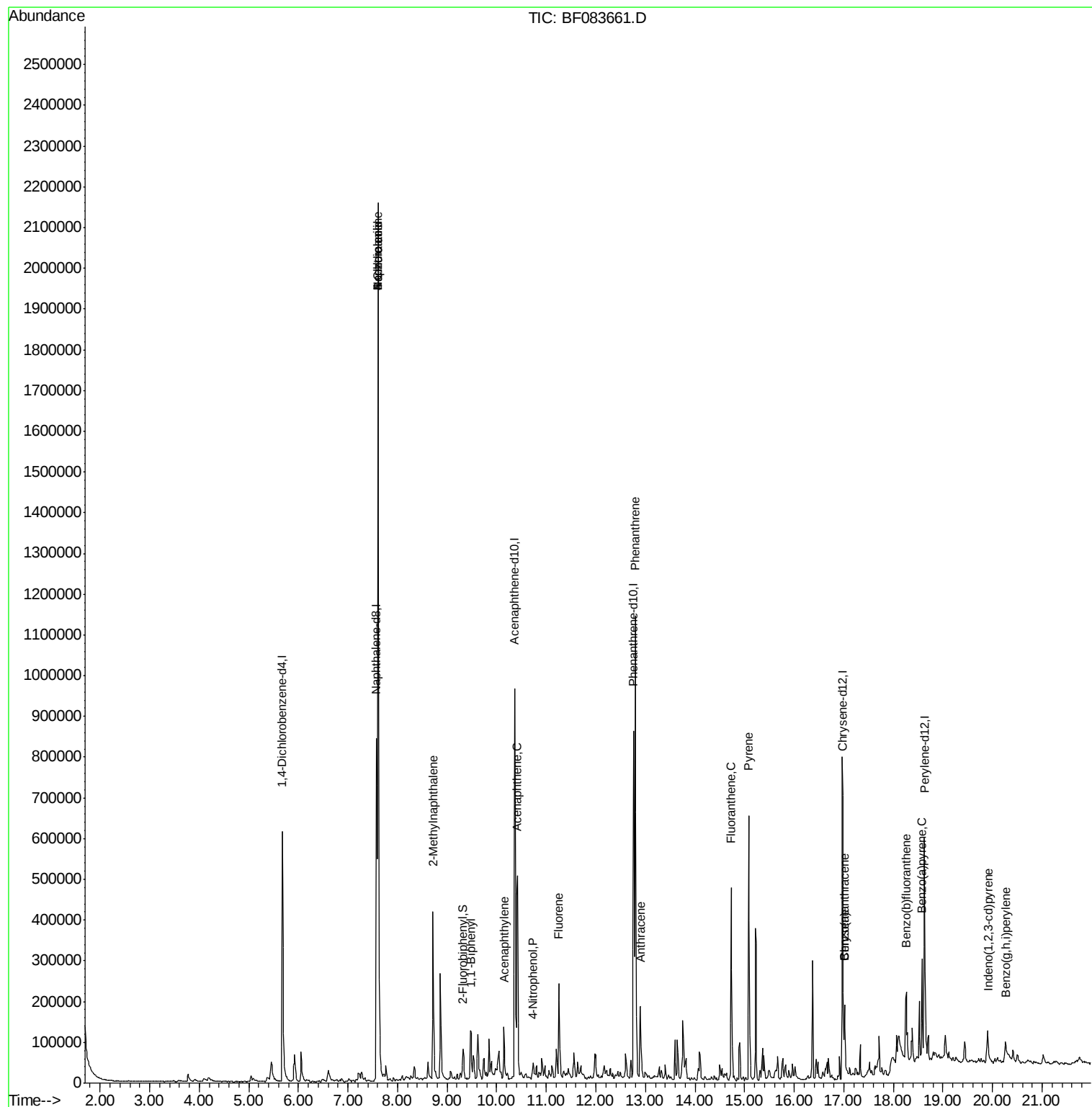
Target Compounds				Qvalue		
31) Naphthalene	7.61	128	1436130	48.42	ng	98
32) Benzoic acid	7.61	122	2902	3.50	ng	# 1
33) 4-Chloroaniline	7.61	127	190356	17.60	ng	# 28
37) 2-Methylnaphthalene	8.72	142	169914	9.12	ng	99
45) 1,1'-Biphenyl	9.48	154	70981	3.25	ng	99
48) Acenaphthylene	10.14	152	79755	2.94	ng	99
51) Acenaphthene	10.42	154	183643	11.81	ng	98
55) 4-Nitrophenol	10.73	139	5741	2.97	ng	# 5
57) Fluorene	11.25	166	120380	6.40	ng	95
70) Phenanthrene	12.80	178	656848	28.30	ng	99
71) Anthracene	12.90	178	149480	6.22	ng	99
74) Fluoranthene	14.73	202	310219	13.06	ng	99
77) Pyrene	15.08	202	407939	15.89	ng	99
80) Benzo(a)anthracene	17.01	228	111434	5.34	ng	97
82) Chrysene	17.01	228	112856	5.39	ng	98
85) Indeno(1,2,3-cd)pyrene	19.91	276	41106	2.91	ng	# 100
87) Benzo(b)fluoranthene	18.26	252	142429	8.85	ng	100
89) Benzo(a)pyrene	18.58	252	105117	6.70	ng	97
91) Benzo(g,h,i)perylene	20.26	276	48613	4.15	ng	99

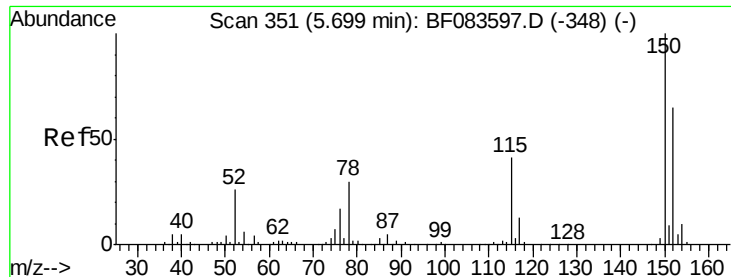
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BF083661.D

Acq: 10 Dec 2015 2:46

Instrument :

BNA_M

ClientSampleId :

SB-P3WC-15(0-8)DL

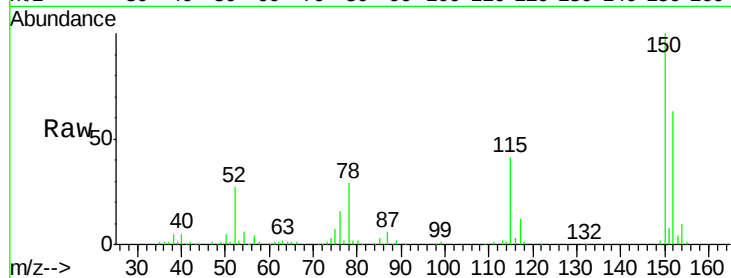
Tgt Ion:152 Resp: 142705

Ion Ratio Lower Upper

152 100

150 159.0 126.5 189.7

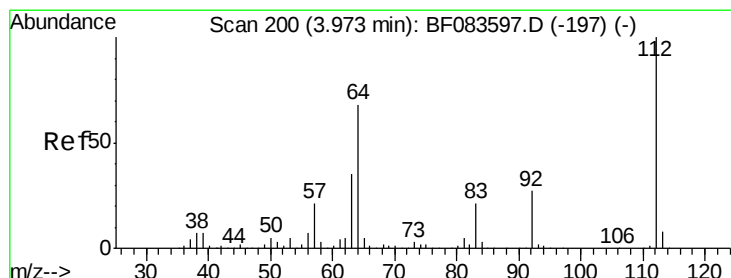
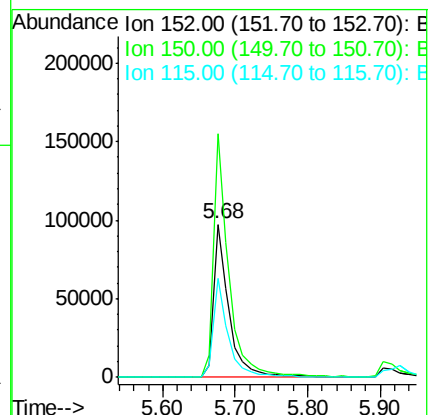
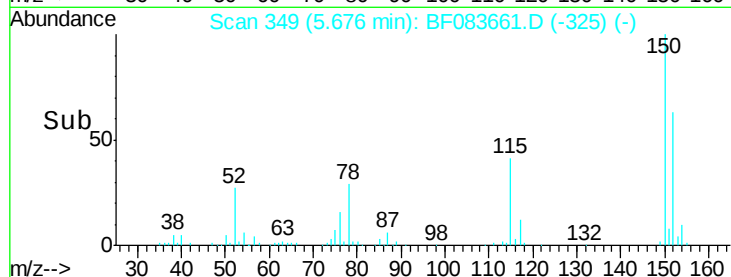
115 64.7 52.3 78.5



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: 0.75 ng

RT: 4.10 min Scan# 211

Delta R.T. 0.13 min

Lab File: BF083661.D

Acq: 10 Dec 2015 2:46

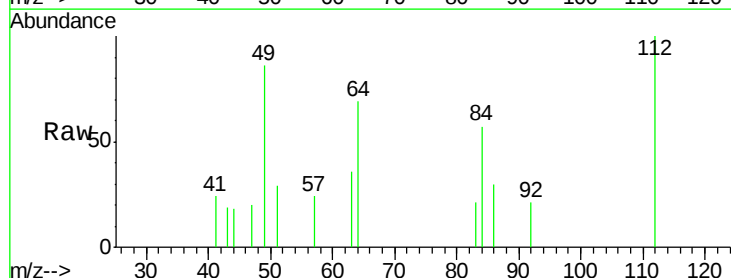
Tgt Ion:112 Resp: 7043

Ion Ratio Lower Upper

112 100

64 68.9 50.5 75.7

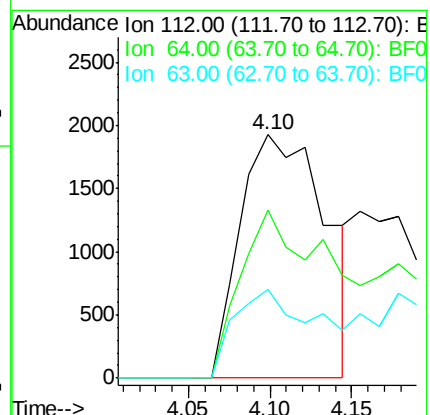
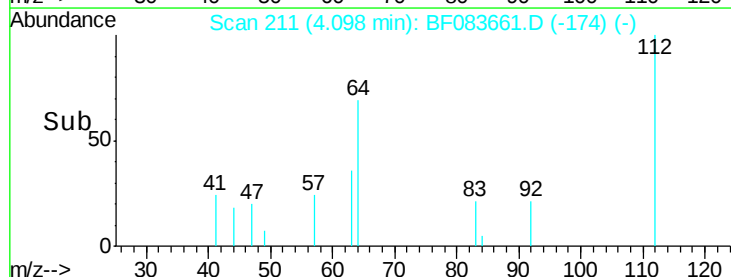
63 36.5 25.8 38.6

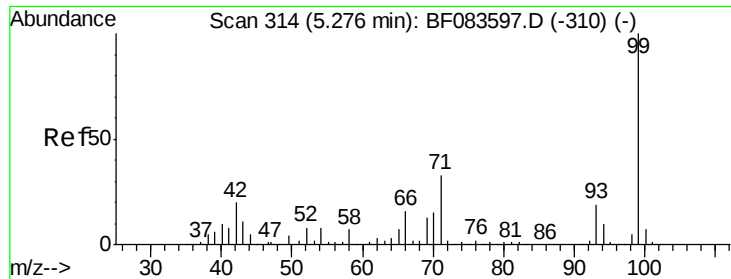


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 1.84 ng

RT: 5.37 min Scan# 322

Delta R.T. 0.09 min

Lab File: BF083661.D

Acq: 10 Dec 2015 2:46

Instrument :

BNA_M

ClientSampleId :

SB-P3WC-15(0-8)DL

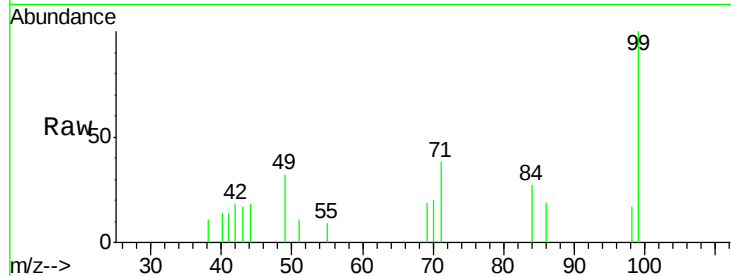
Tgt Ion: 99 Resp: 23071

Ion Ratio Lower Upper

99 100

42 18.5 17.3 25.9

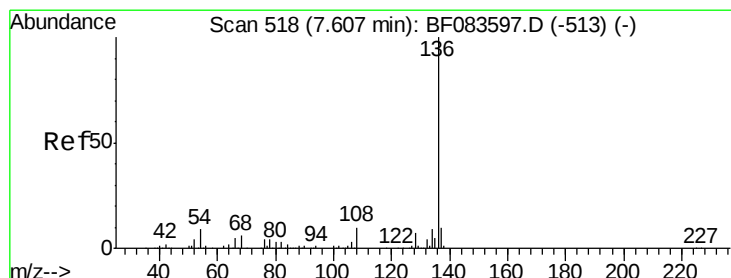
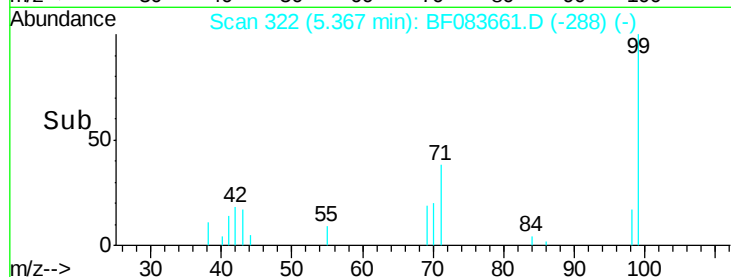
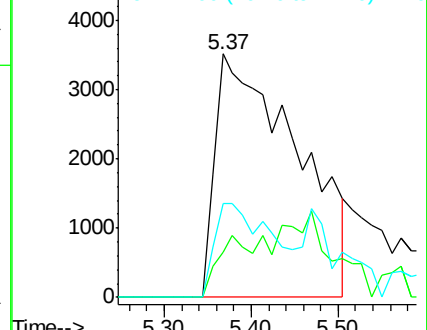
71 38.3 26.6 40.0



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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.57 min Scan# 515

Delta R.T. -0.03 min

Lab File: BF083661.D

Acq: 10 Dec 2015 2:46

Tgt Ion: 136 Resp: 560018

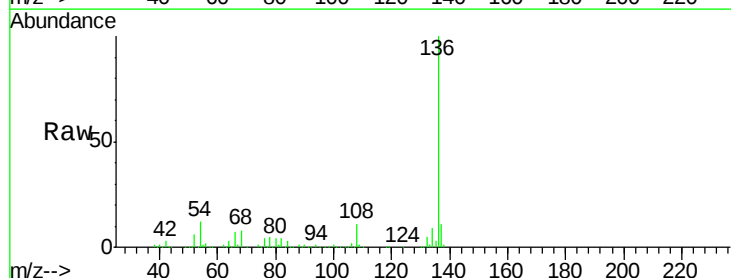
Ion Ratio Lower Upper

136 100

137 11.4 8.7 13.1

54 11.7 7.8 11.6#

68 8.4 5.7 8.5

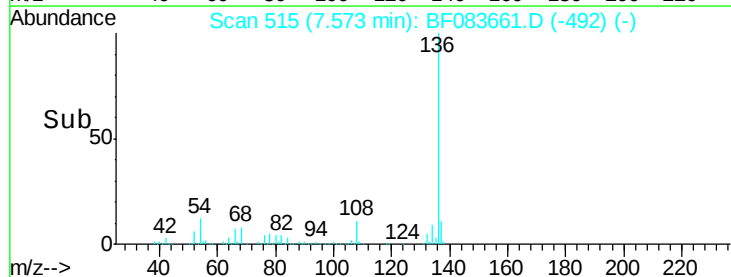
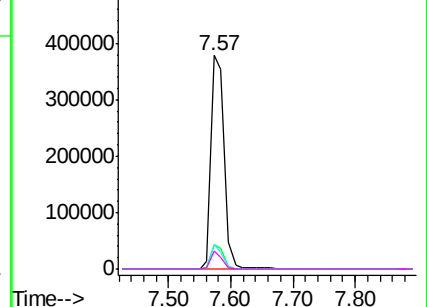


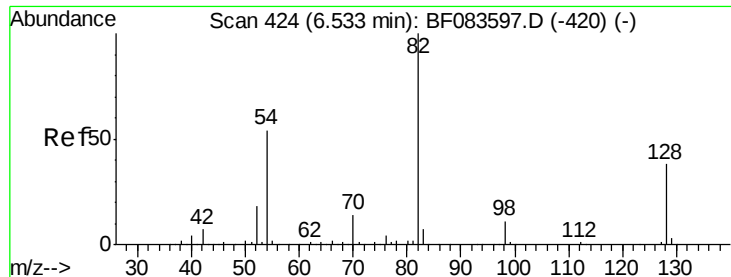
Abundance Ion 136.00 (135.70 to 136.70): E

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

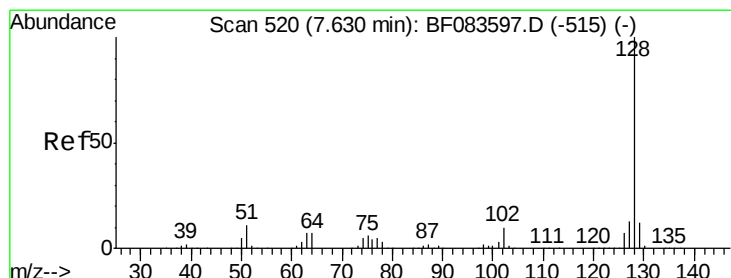
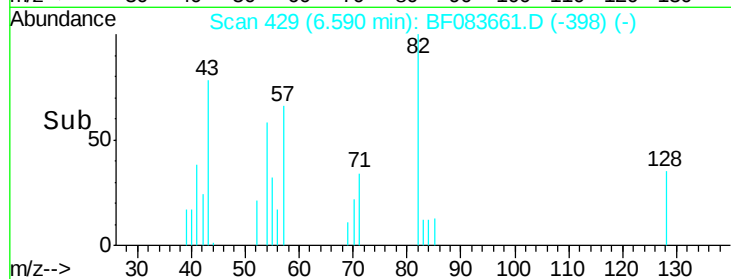
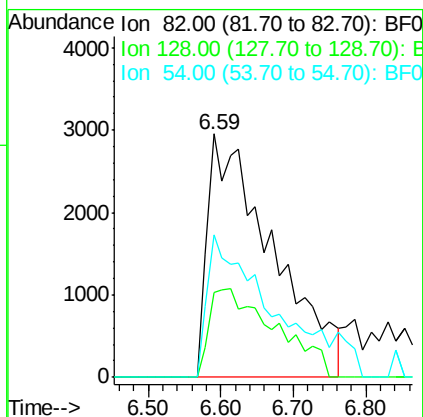
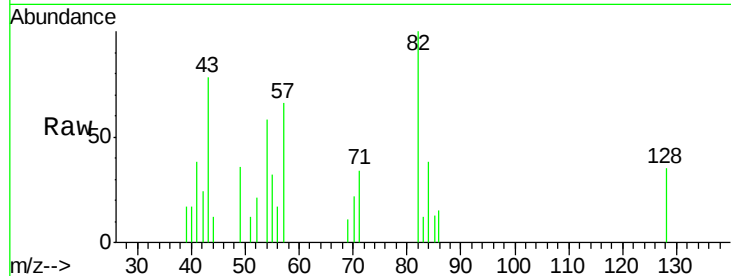




#23
Nitrobenzene-d5
Concen: 1.53 ng
RT: 6.59 min Scan# 429
Delta R.T. 0.06 min
Lab File: BF083661.D
Acq: 10 Dec 2015 2:46

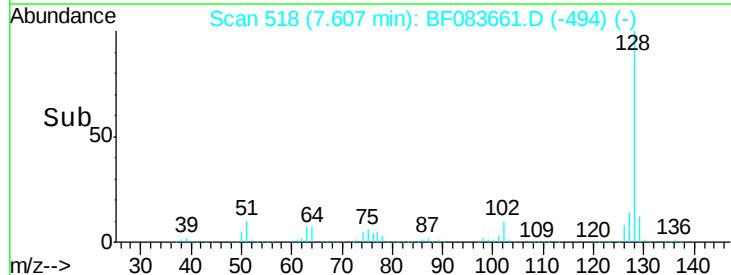
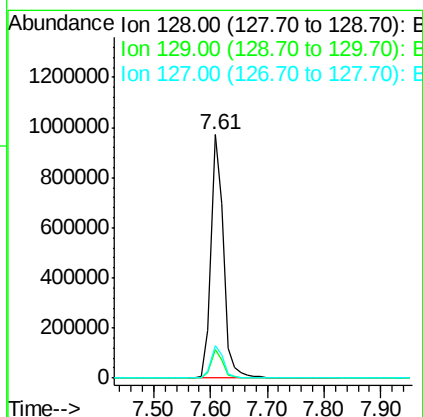
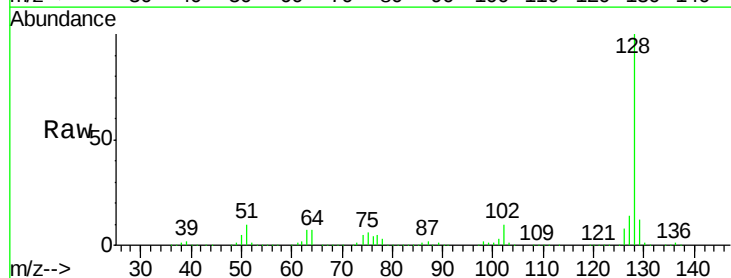
Instrument :
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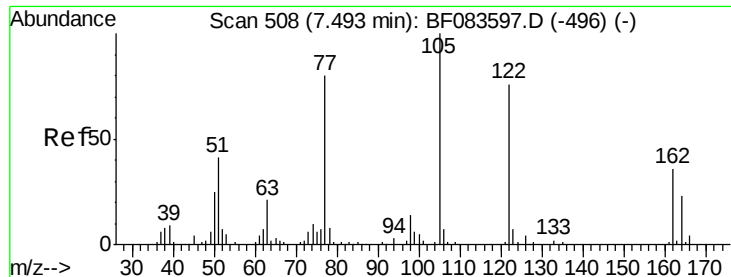
Tgt Ion: 82 Resp: 18368
Ion Ratio Lower Upper
82 100
128 34.8 30.7 46.1
54 58.4 42.5 63.7



#31
Naphthalene
Concen: 48.42 ng
RT: 7.61 min Scan# 518
Delta R.T. -0.02 min
Lab File: BF083661.D
Acq: 10 Dec 2015 2:46

Tgt Ion: 128 Resp: 1436130
Ion Ratio Lower Upper
128 100
129 11.9 8.6 13.0
127 13.5 10.6 16.0

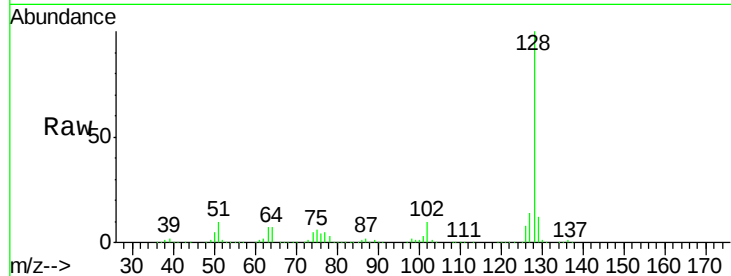




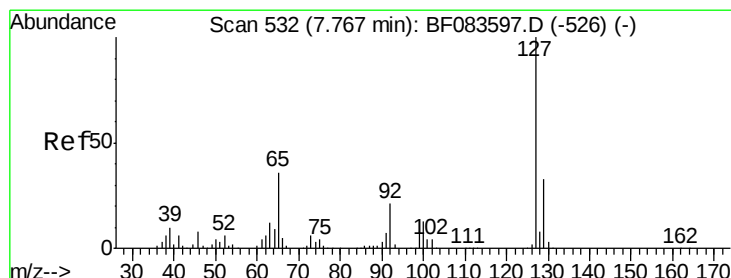
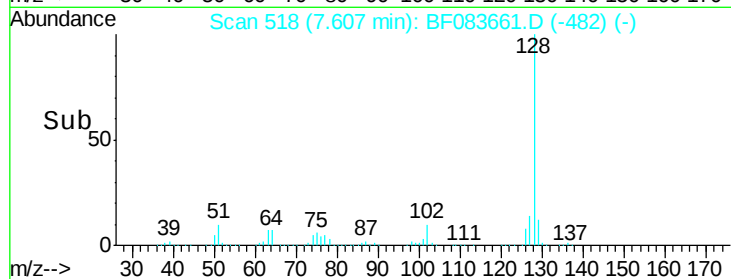
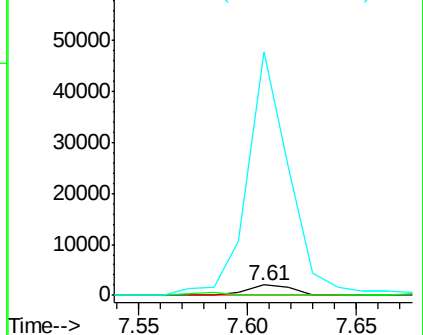
#32
Benzoic acid
Concen: 3.50 ng
RT: 7.61 min Scan# 518
Delta R.T. 0.12 min
Lab File: BF083661.D
Acq: 10 Dec 2015 2:46

Instrument :
BNA_M
ClientSampleId :
SB-P3WC-15(0-8)DL

Tgt Ion:122 Resp: 2902
Ion Ratio Lower Upper
122 100
105 0.0 105.6 145.6#
77 2320.0 86.8 126.8#

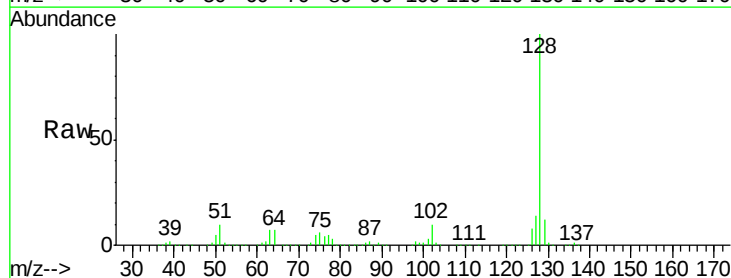


Abundance Ion 122.00 (121.70 to 122.70): E
Ion 105.00 (104.70 to 105.70): E
Ion 77.00 (76.70 to 77.70): BF0

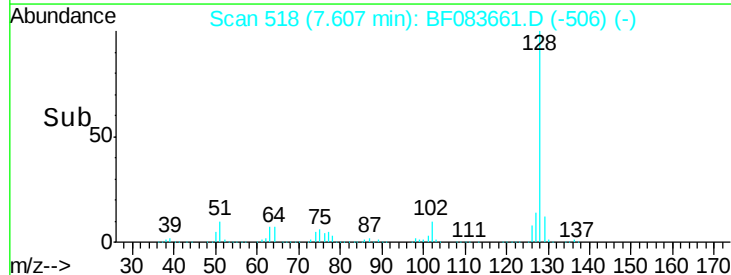
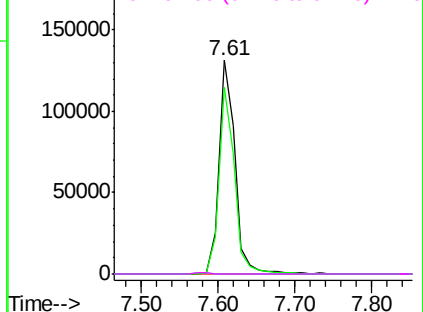


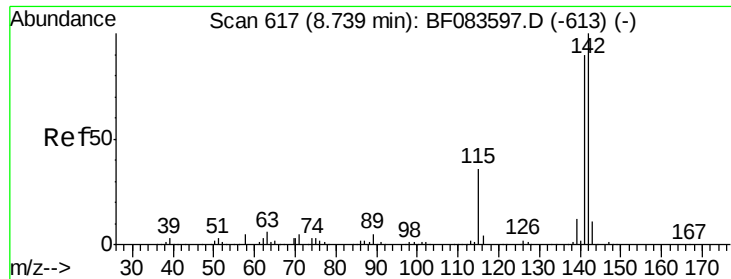
#33
4-Chloroaniline
Concen: 17.60 ng
RT: 7.61 min Scan# 518
Delta R.T. -0.16 min
Lab File: BF083661.D
Acq: 10 Dec 2015 2:46

Tgt Ion:127 Resp: 190356
Ion Ratio Lower Upper
127 100
129 87.7 26.1 39.1#
65 0.0 33.5 50.3#
92 0.0 18.6 28.0#



Abundance Ion 127.00 (126.70 to 127.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 65.00 (64.70 to 65.70): BF0
Ion 92.00 (91.70 to 92.70): BF0

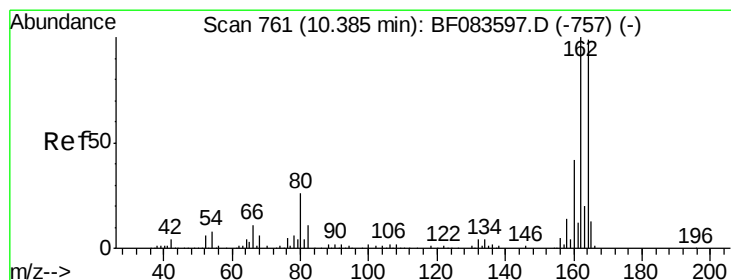
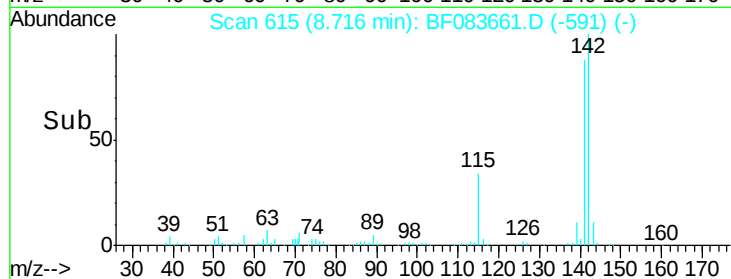
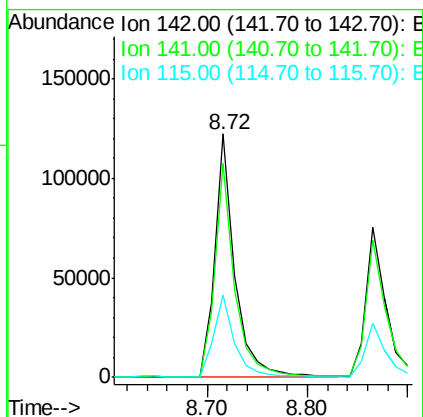
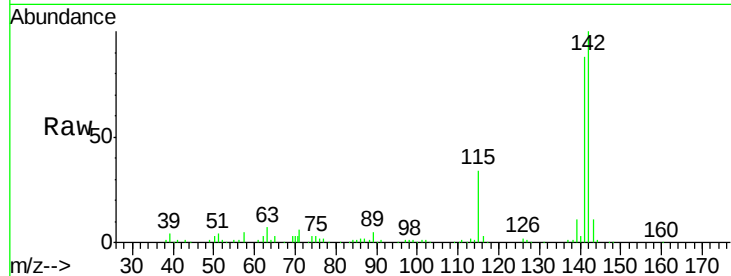




#37
2-Methylnaphthalene
Concen: 9.12 ng
RT: 8.72 min Scan# 615
Delta R.T. -0.02 min
Lab File: BF083661.D
Acq: 10 Dec 2015 2:46

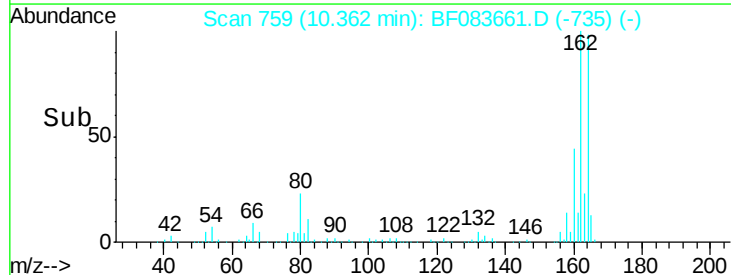
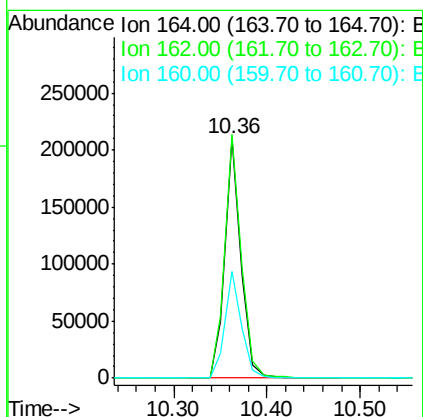
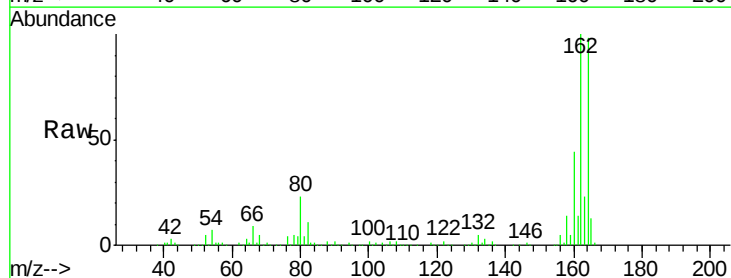
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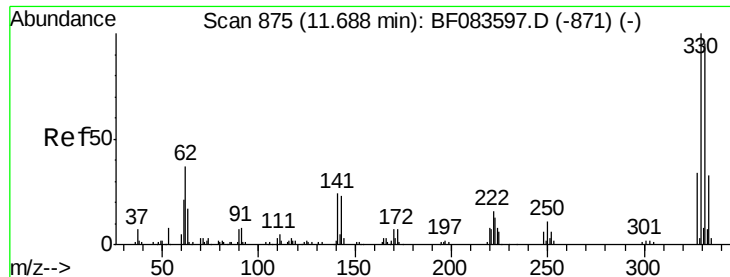
Tgt Ion:142 Resp: 169914
Ion Ratio Lower Upper
142 100
141 88.2 70.3 105.5
115 34.0 29.2 43.8



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.36 min Scan# 759
Delta R.T. -0.02 min
Lab File: BF083661.D
Acq: 10 Dec 2015 2:46

Tgt Ion:164 Resp: 251019
Ion Ratio Lower Upper
164 100
162 101.6 78.8 118.2
160 44.7 33.4 50.2

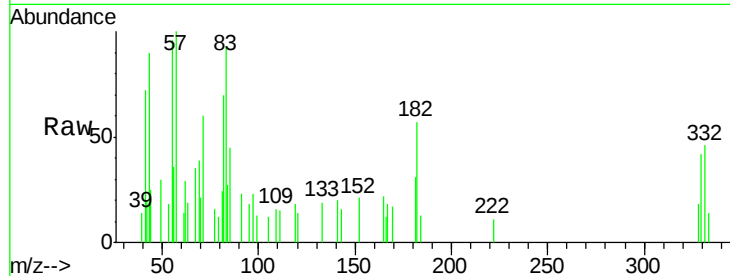




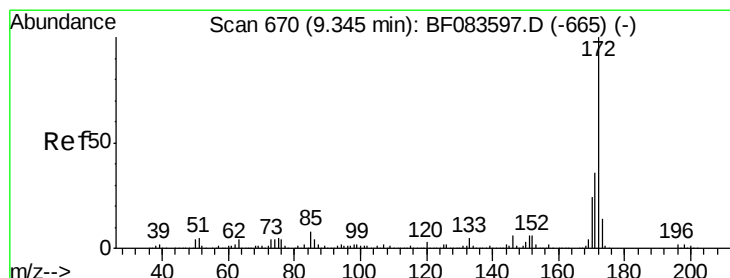
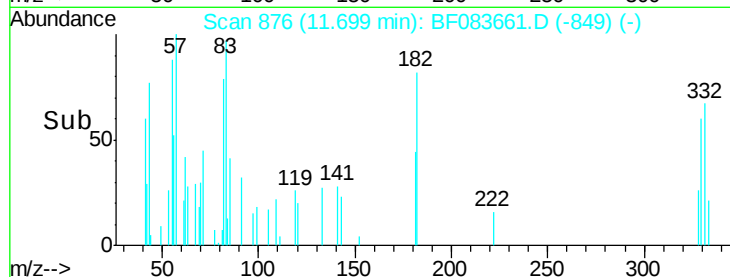
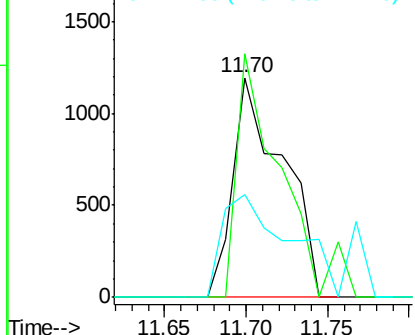
#41
 2,4,6-Tribromophenol
 Concen: 1.13 ng
 RT: 11.70 min Scan# 876
 Delta R.T. 0.01 min
 Lab File: BF083661.D
 Acq: 10 Dec 2015 2:46

Instrument :
 BNA_M
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 SB-P3WC-15(0-8)DL

Tgt Ion: 330 Resp: 2530
 Ion Ratio Lower Upper
 330 100
 332 97.5 0.0 0.0#
 141 63.5 0.0 0.0#

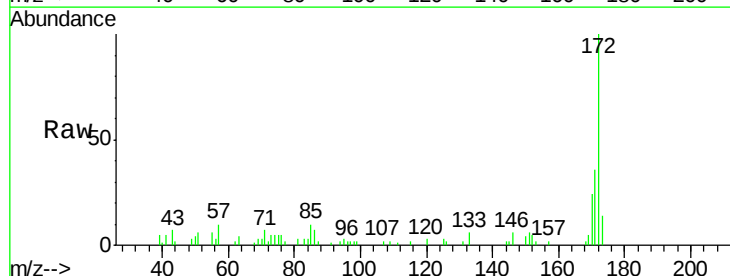


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

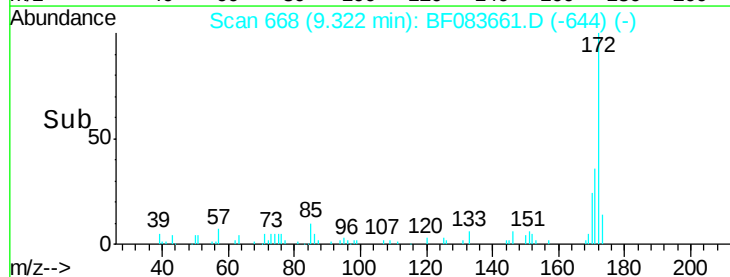
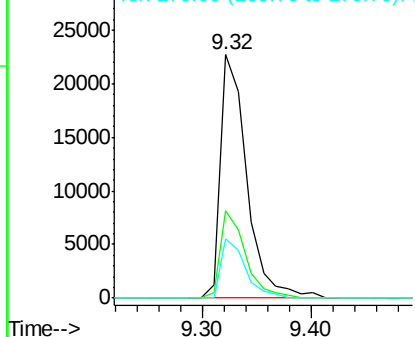


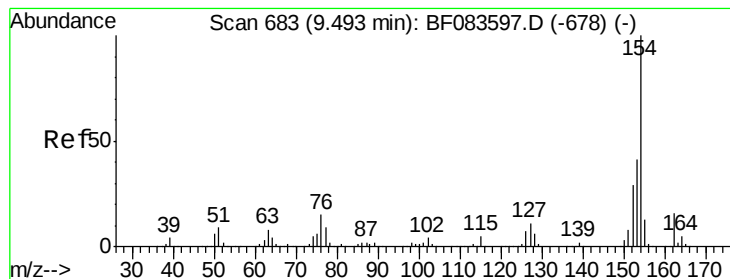
#44
 2-Fluorobiphenyl
 Concen: 2.13 ng
 RT: 9.32 min Scan# 668
 Delta R.T. -0.02 min
 Lab File: BF083661.D
 Acq: 10 Dec 2015 2:46

Tgt Ion: 172 Resp: 38064
 Ion Ratio Lower Upper
 172 100
 171 36.1 28.6 42.8
 170 24.2 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: 3.25 ng

RT: 9.48 min Scan# 682

Delta R.T. -0.01 min

Lab File: BF083661.D

Acq: 10 Dec 2015 2:46

Instrument :

BNA_M

ClientSampleId :

SB-P3WC-15(0-8)DL

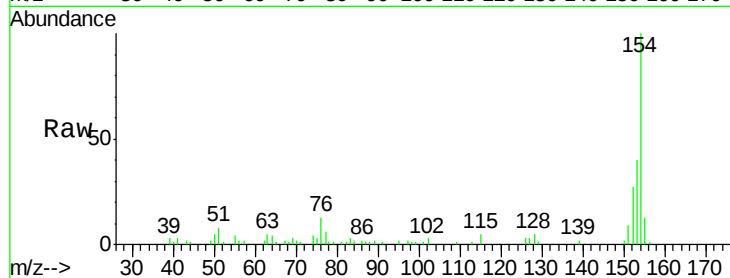
Tgt Ion:154 Resp: 70981

Ion Ratio Lower Upper

154 100

153 40.0 20.2 60.2

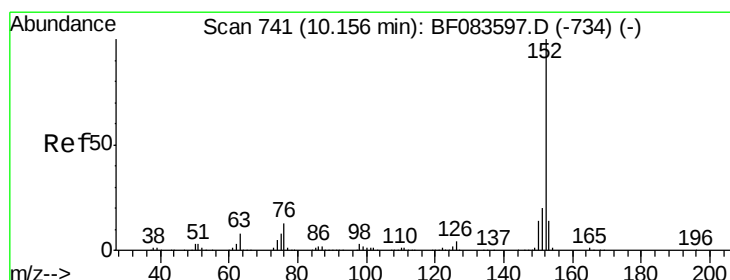
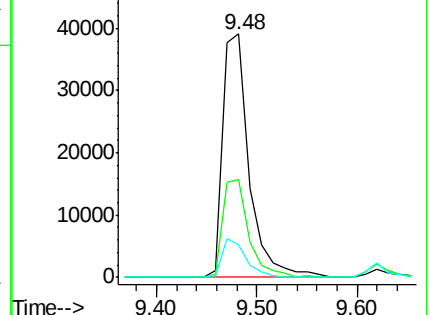
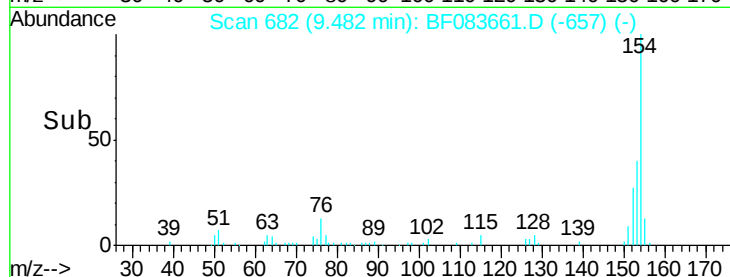
76 13.1 0.0 34.8



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



#48

Acenaphthylene

Concen: 2.94 ng

RT: 10.14 min Scan# 740

Delta R.T. -0.01 min

Lab File: BF083661.D

Acq: 10 Dec 2015 2:46

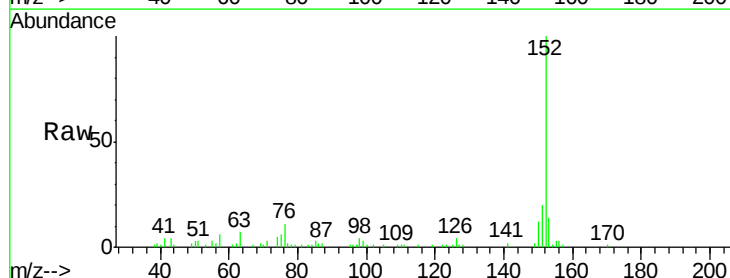
Tgt Ion:152 Resp: 79755

Ion Ratio Lower Upper

152 100

151 19.6 16.3 24.5

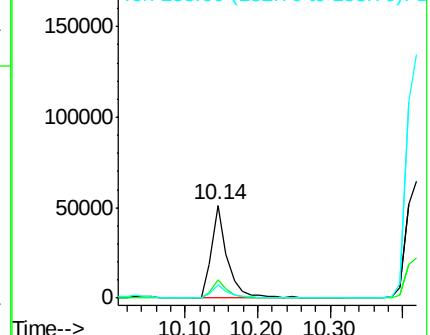
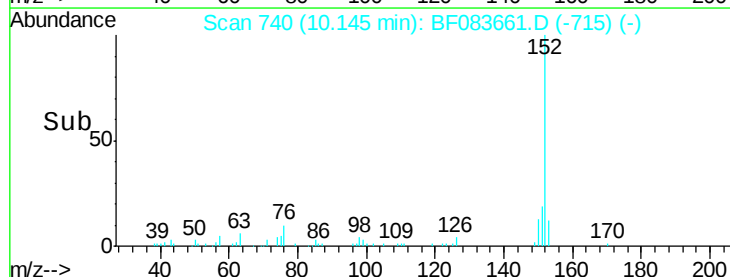
153 13.7 10.8 16.2

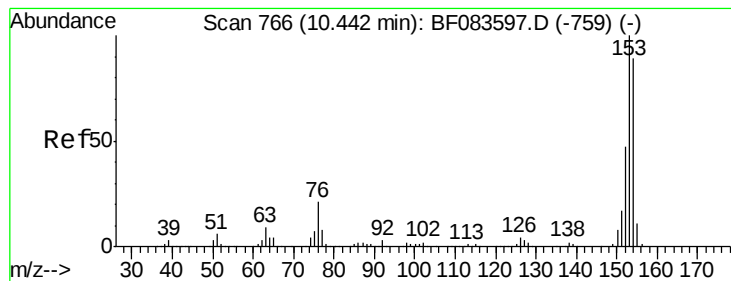


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#51

Acenaphthene

Concen: 11.81 ng

RT: 10.42 min Scan# 764

Delta R.T. -0.02 min

Lab File: BF083661.D

Acq: 10 Dec 2015 2:46

Instrument :

BNA_M

ClientSampleId :

SB-P3WC-15(0-8)DL

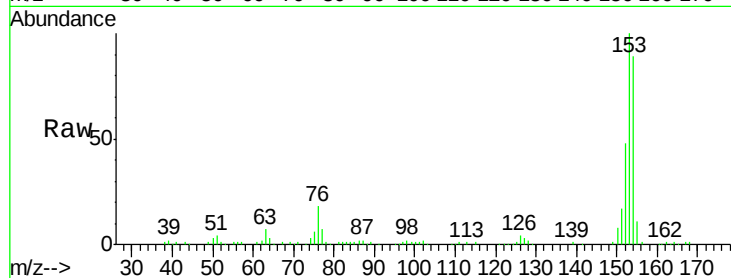
Tgt Ion:154 Resp: 183643

Ion Ratio Lower Upper

154 100

153 111.8 91.4 137.0

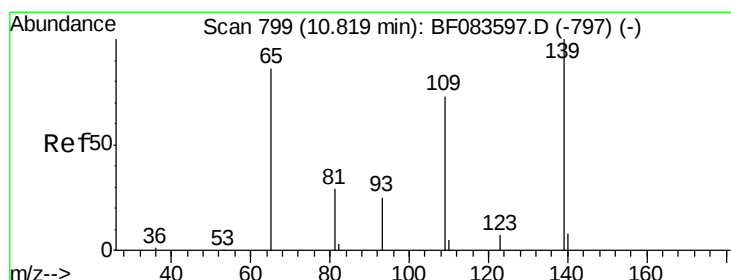
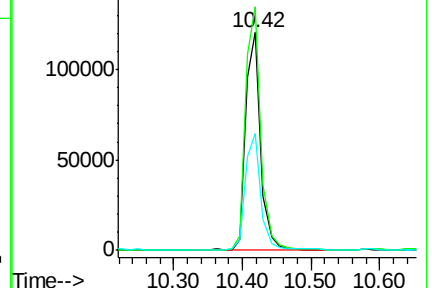
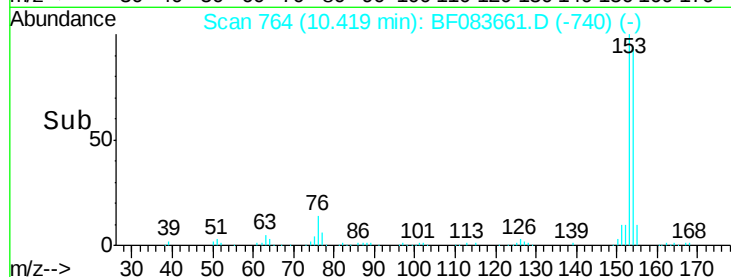
152 53.5 43.4 65.2



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



#55

4-Nitrophenol

Concen: 2.97 ng

RT: 10.73 min Scan# 791

Delta R.T. -0.09 min

Lab File: BF083661.D

Acq: 10 Dec 2015 2:46

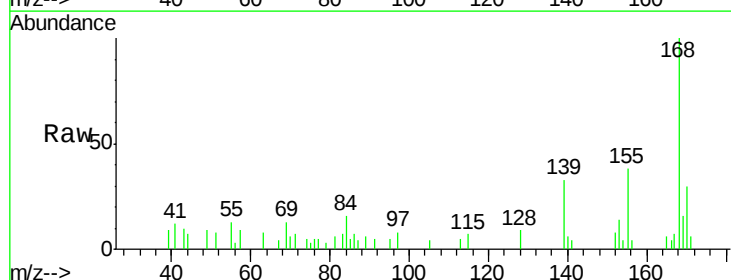
Tgt Ion:139 Resp: 5741

Ion Ratio Lower Upper

139 100

109 0.0 42.0 82.0#

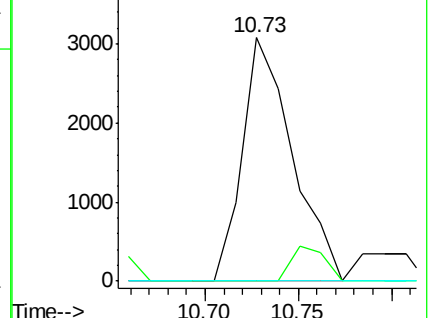
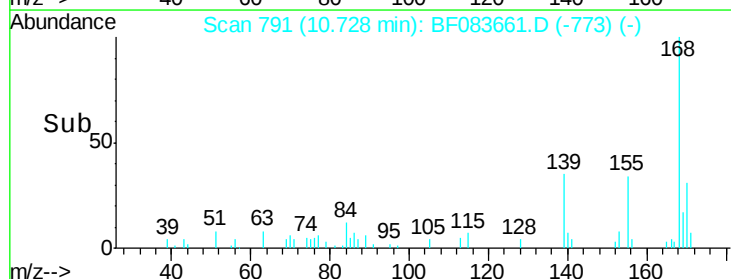
65 0.0 89.2 129.2#

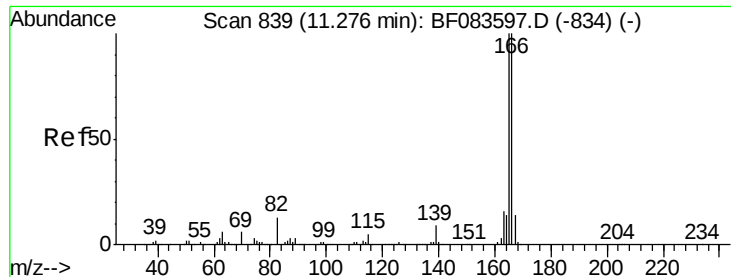


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0

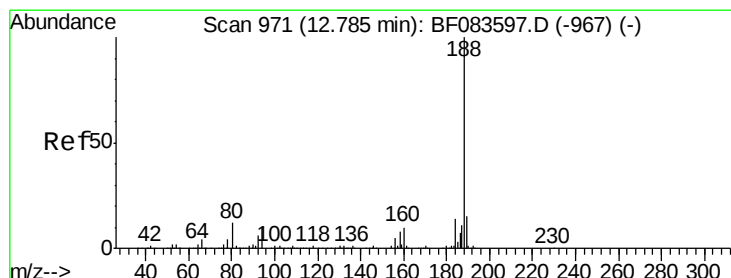
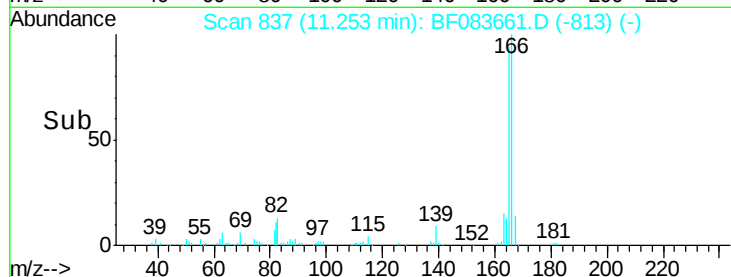
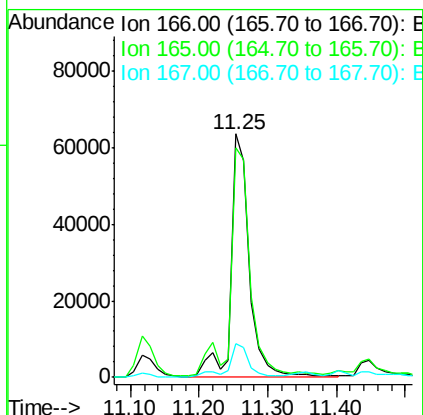
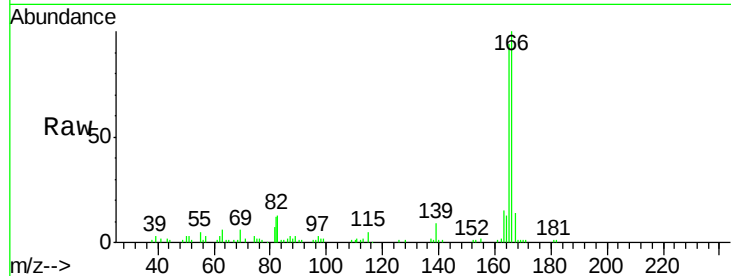




#57
Fluorene
 Concen: 6.40 ng
 RT: 11.25 min Scan# 837
 Delta R.T. -0.02 min
 Lab File: BF083661.D
 Acq: 10 Dec 2015 2:46

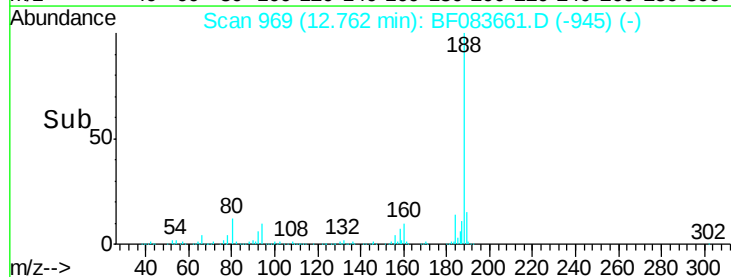
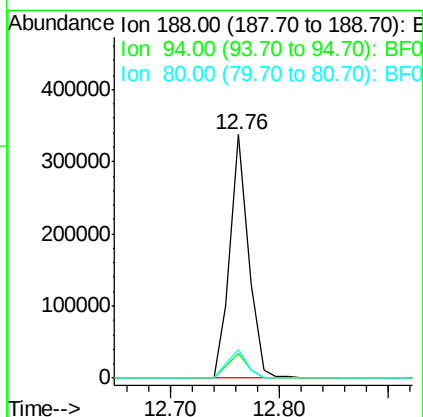
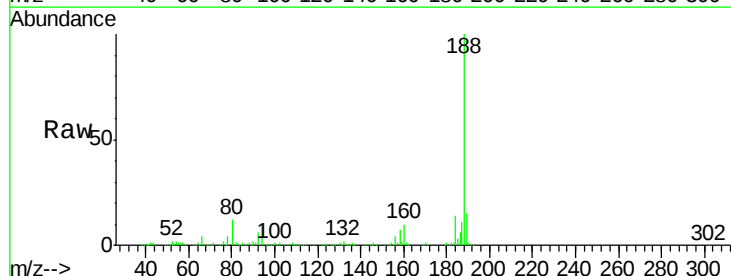
Instrument :
 BNA_M
 ClientSampleId :
 SB-P3WC-15(0-8)DL

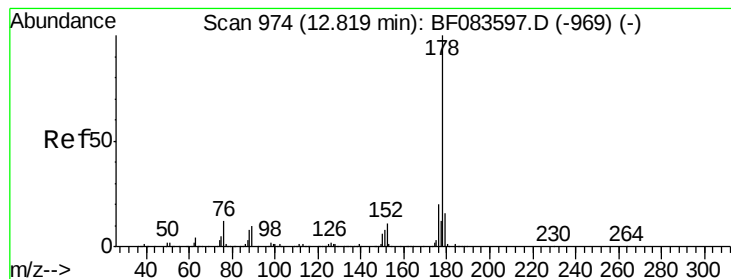
Tgt Ion:166 Resp: 120380
 Ion Ratio Lower Upper
 166 100
 165 94.4 80.0 120.0
 167 14.0 10.6 16.0



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 12.76 min Scan# 969
 Delta R.T. -0.02 min
 Lab File: BF083661.D
 Acq: 10 Dec 2015 2:46

Tgt Ion:188 Resp: 404014
 Ion Ratio Lower Upper
 188 100
 94 10.2 9.4 14.2
 80 11.9 10.6 16.0





#70

Phenanthrene

Concen: 28.30 ng

RT: 12.80 min Scan# 972

Delta R.T. -0.02 min

Lab File: BF083661.D

Acq: 10 Dec 2015 2:46

Instrument :

BNA_M

ClientSampleId :

SB-P3WC-15(0-8)DL

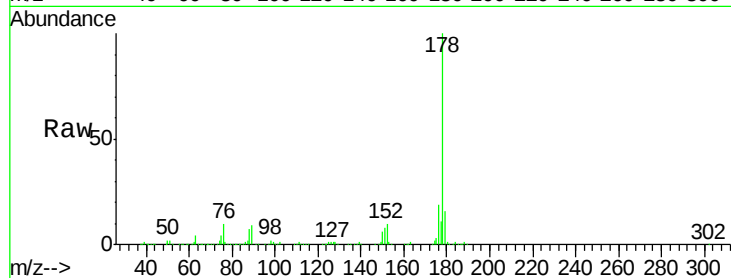
Tgt Ion:178 Resp: 656848

Ion Ratio Lower Upper

178 100

176 19.1 15.7 23.5

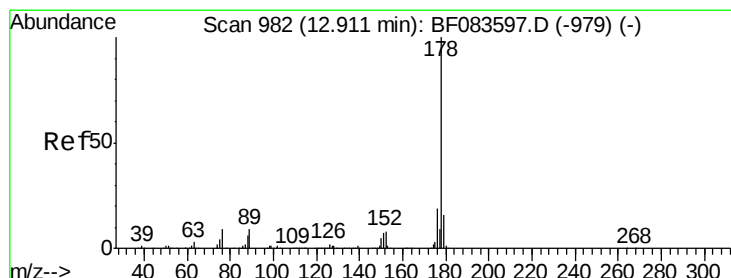
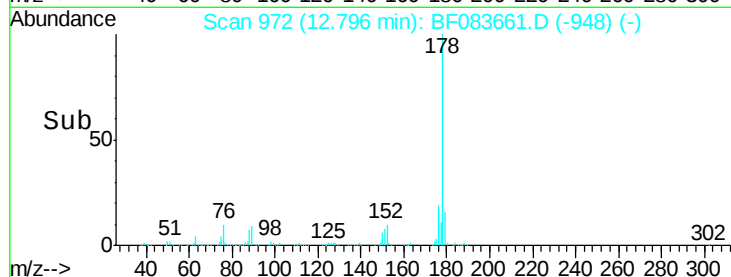
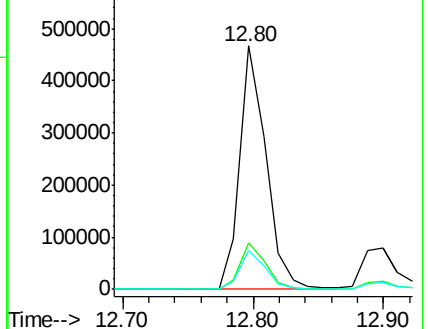
179 15.7 12.2 18.4



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 6.22 ng

RT: 12.90 min Scan# 981

Delta R.T. -0.01 min

Lab File: BF083661.D

Acq: 10 Dec 2015 2:46

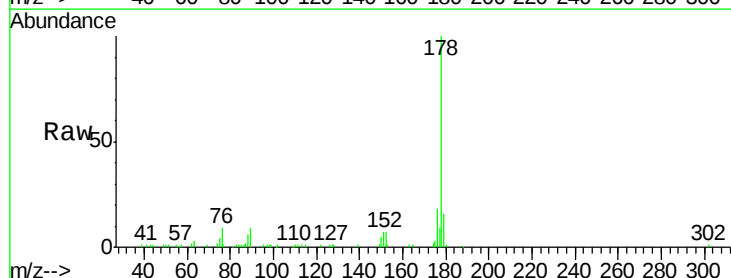
Tgt Ion:178 Resp: 149480

Ion Ratio Lower Upper

178 100

176 18.1 15.2 22.8

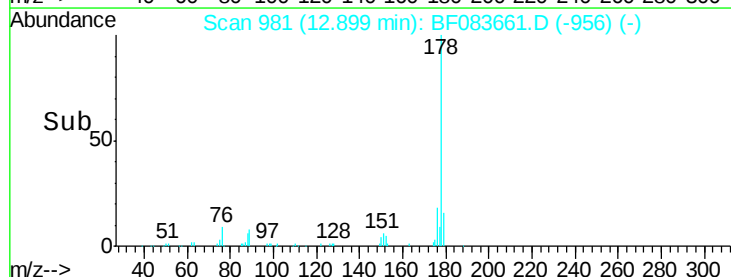
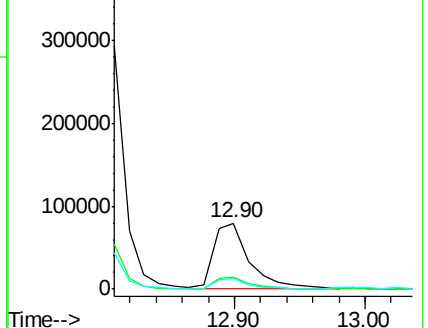
179 15.9 12.6 18.8

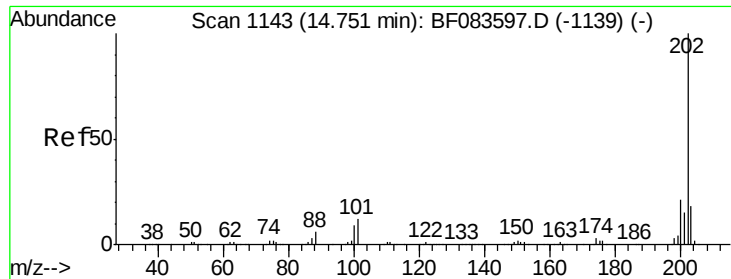


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

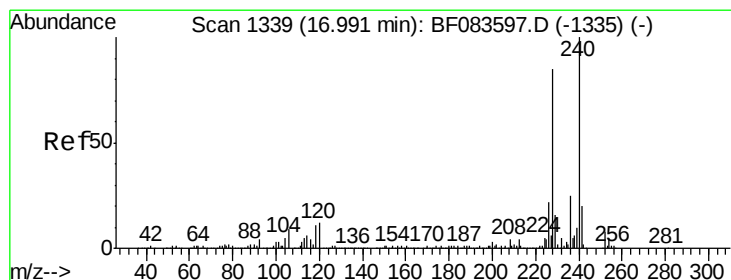
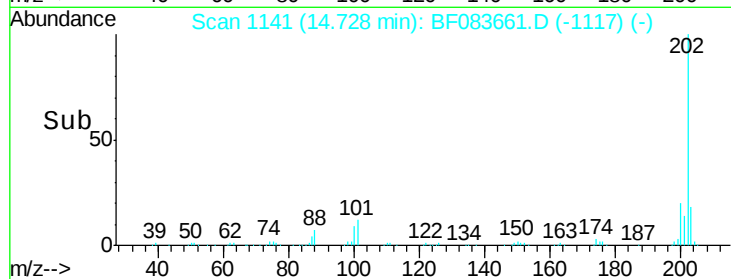
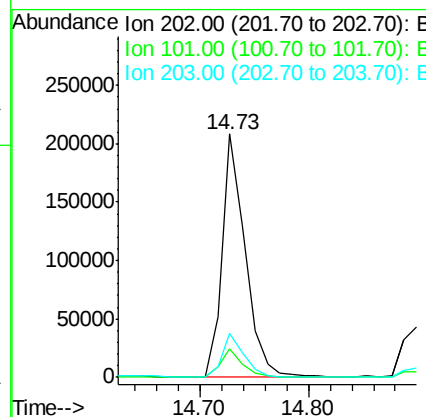
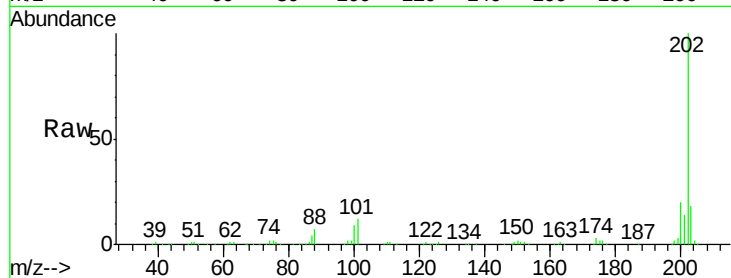




#74
 Fluoranthene
 Concen: 13.06 ng
 RT: 14.73 min Scan# 1141
 Delta R.T. -0.02 min
 Lab File: BF083661.D
 Acq: 10 Dec 2015 2:46

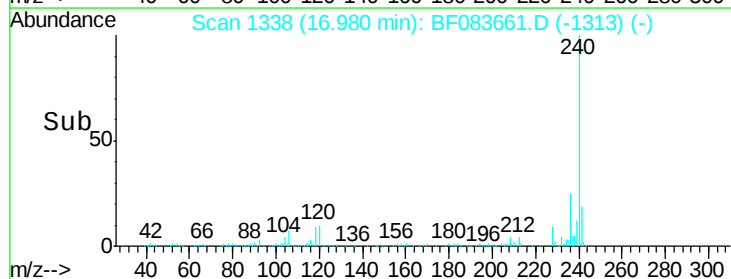
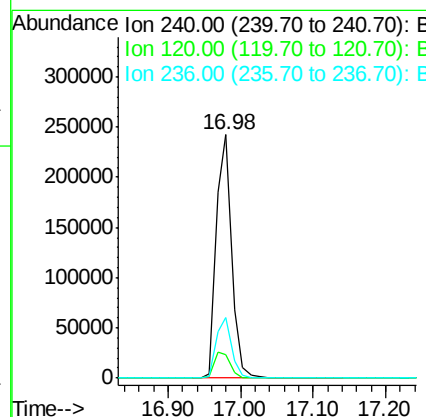
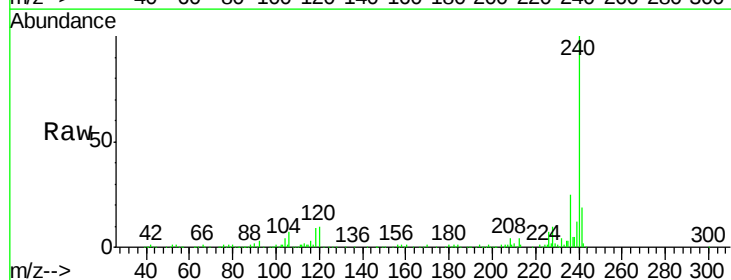
Instrument :
 BNA_M
 ClientSampleId :
 SB-P3WC-15(0-8)DL

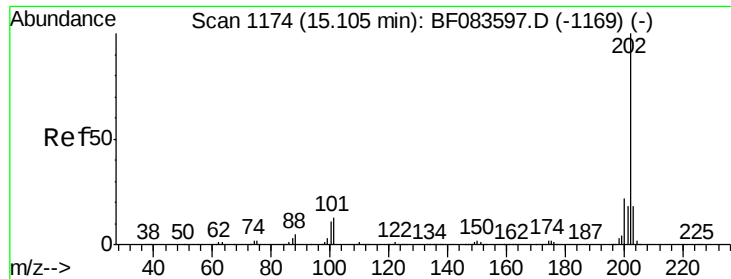
Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.9	0.0	31.5
203	18.1	0.0	37.6



#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 16.98 min Scan# 1338
 Delta R.T. -0.01 min
 Lab File: BF083661.D
 Acq: 10 Dec 2015 2:46

Tgt Ion	Ratio	Lower	Upper
240	100		
120	9.6	8.1	12.1
236	24.8	20.8	31.2

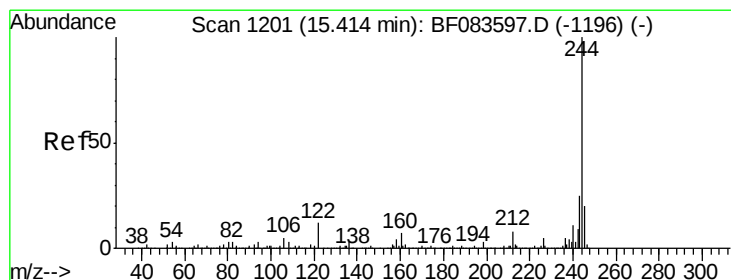
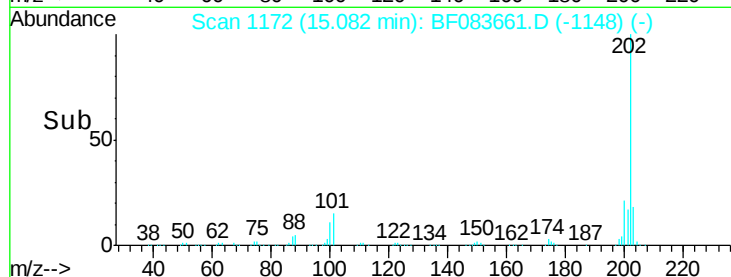
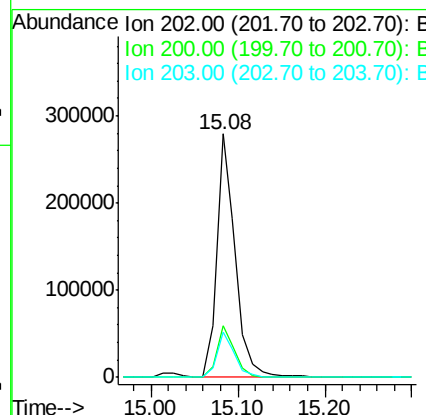
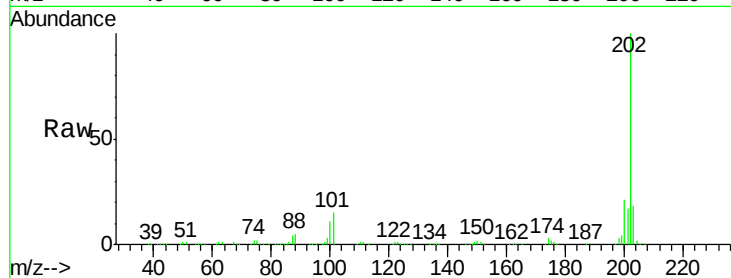




#77
 Pyrene
 Concen: 15.89 ng
 RT: 15.08 min Scan# 1172
 Delta R.T. -0.02 min
 Lab File: BF083661.D
 Acq: 10 Dec 2015 2:46

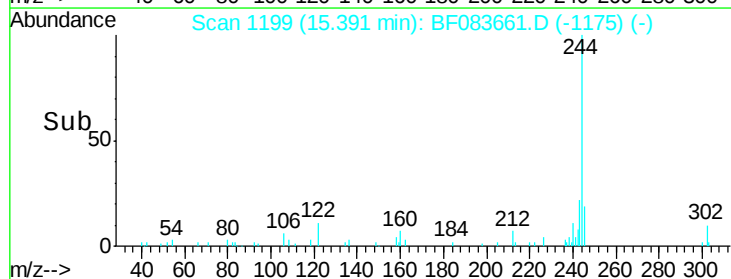
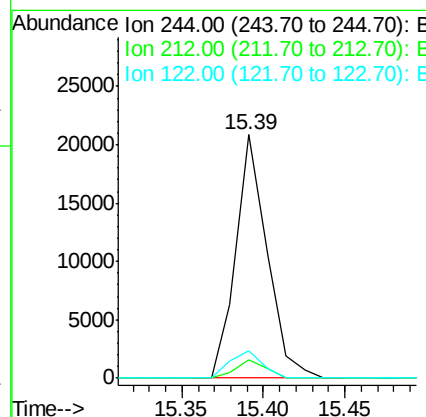
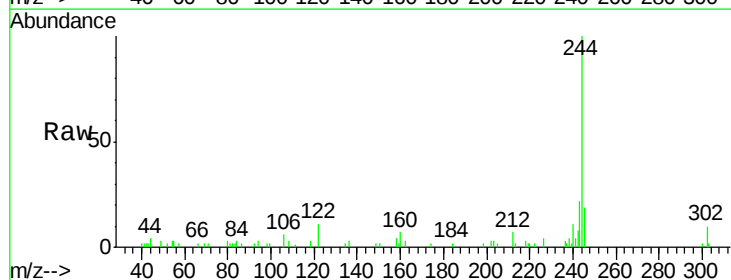
Instrument :
 BNA_M
 ClientSampleId :
 SB-P3WC-15(0-8)DL

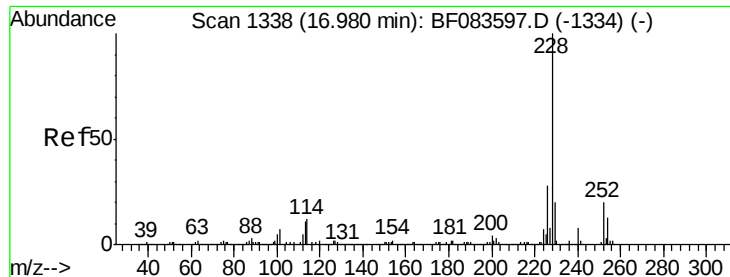
Tgt Ion: 202 Resp: 407939
 Ion Ratio Lower Upper
 202 100
 200 21.1 16.7 25.1
 203 18.5 14.3 21.5



#78
 Terphenyl-d14
 Concen: 1.82 ng
 RT: 15.39 min Scan# 1199
 Delta R.T. -0.02 min
 Lab File: BF083661.D
 Acq: 10 Dec 2015 2:46

Tgt Ion: 244 Resp: 27543
 Ion Ratio Lower Upper
 244 100
 212 7.4 6.1 9.1
 122 11.1 11.0 16.6





#80

Benzo(a)anthracene

Concen: 5.34 ng

RT: 17.01 min Scan# 1341

Delta R.T. 0.03 min

Lab File: BF083661.D

Acq: 10 Dec 2015 2:46

Instrument :

BNA_M

ClientSampleId :

SB-P3WC-15(0-8)DL

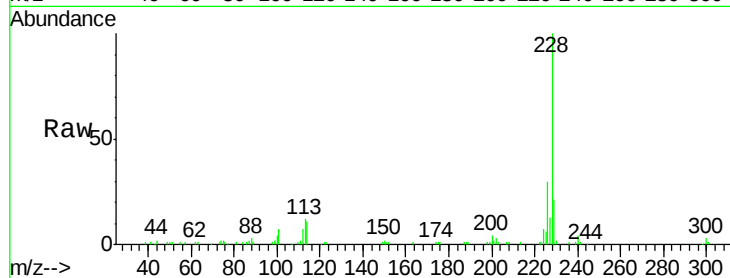
Tgt Ion:228 Resp: 111434

Ion Ratio Lower Upper

228 100

226 29.6 22.3 33.5

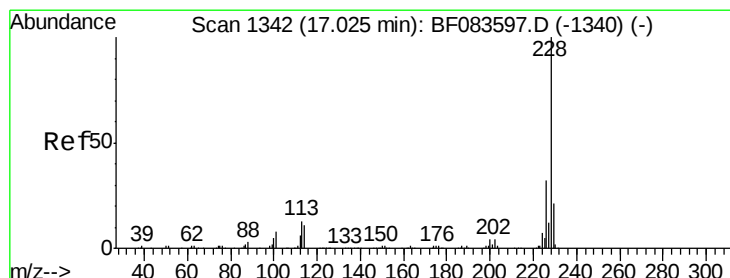
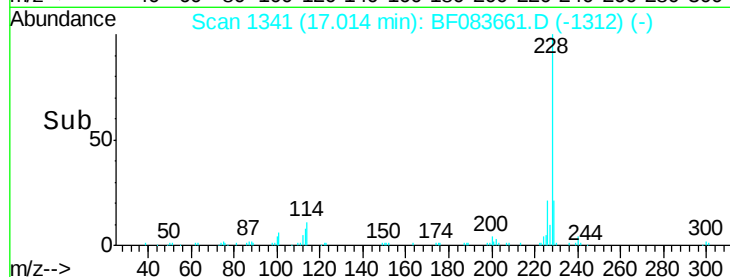
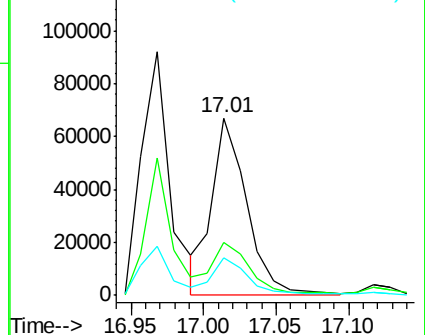
229 21.2 15.7 23.5



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: 5.39 ng

RT: 17.01 min Scan# 1341

Delta R.T. -0.01 min

Lab File: BF083661.D

Acq: 10 Dec 2015 2:46

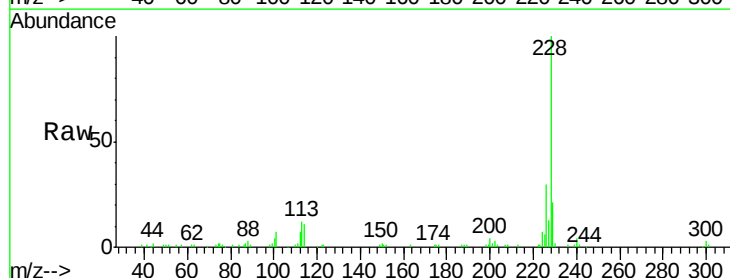
Tgt Ion:228 Resp: 112856

Ion Ratio Lower Upper

228 100

226 29.6 24.7 37.1

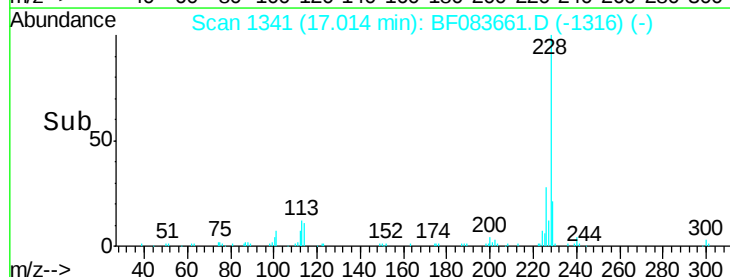
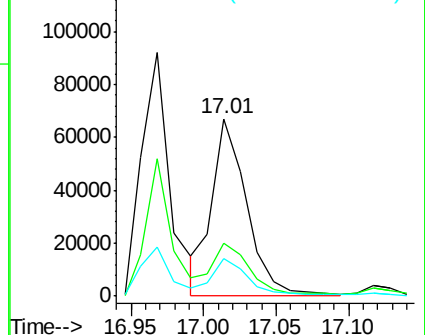
229 21.2 16.3 24.5

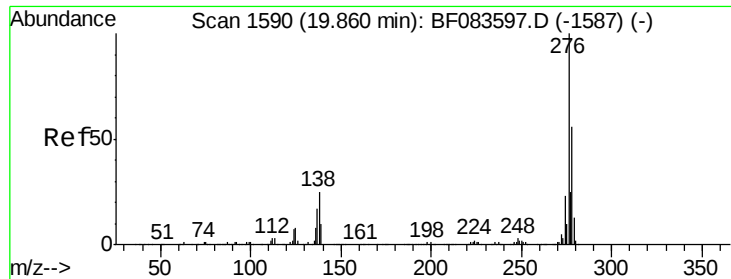


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

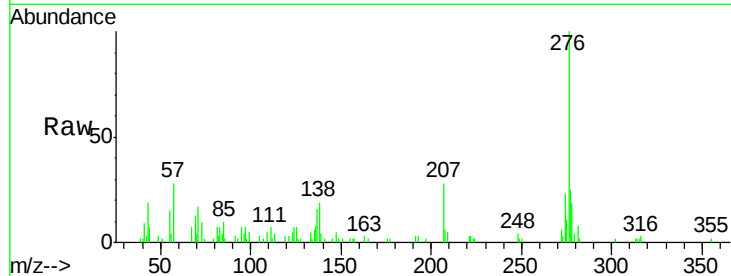




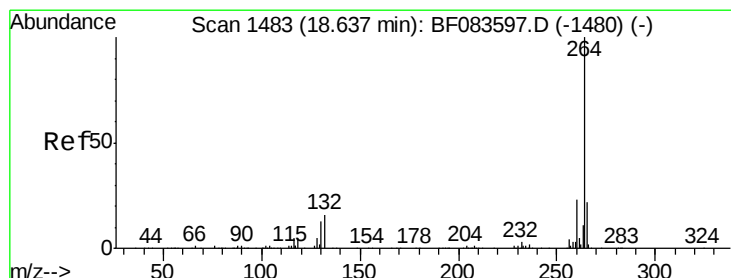
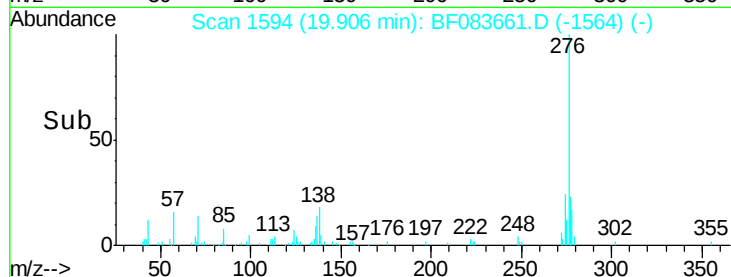
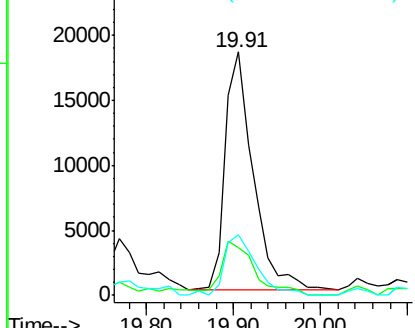
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 2.91 ng
 RT: 19.91 min Scan# 1594
 Delta R.T. 0.05 min
 Lab File: BF083661.D
 Acq: 10 Dec 2015 2:46

Instrument :
 BNA_M
 ClientSampleId :
 SB-P3WC-15(0-8)DL

Tgt Ion	Ratio	Lower	Upper
276	100		
138	27.5	0.0	0.0#
277	29.2	0.0	0.0#

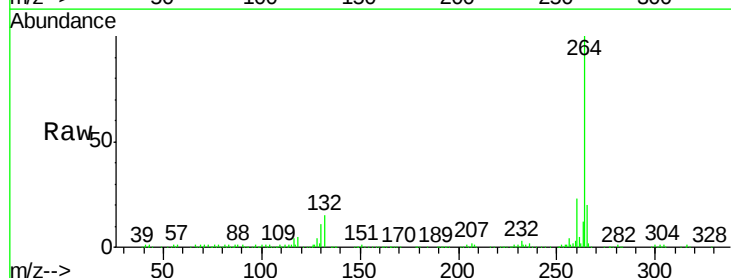


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

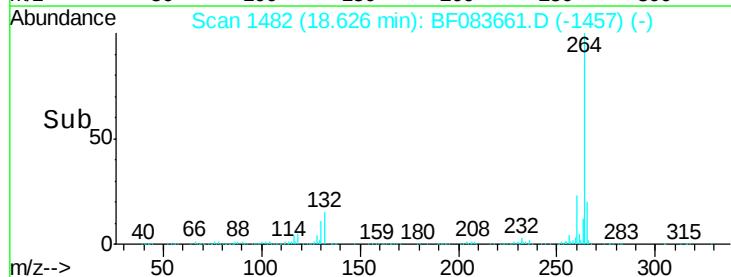
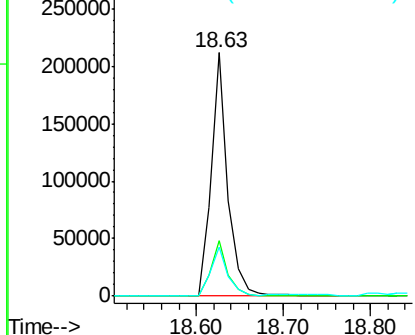


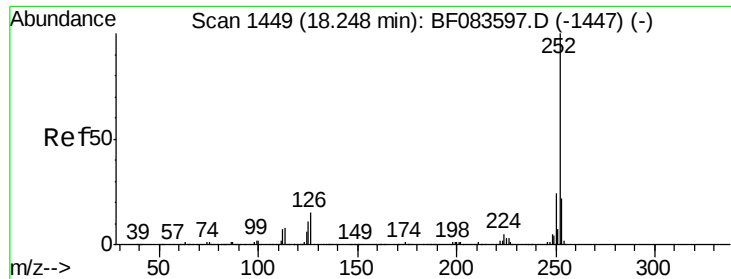
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 18.63 min Scan# 1482
 Delta R.T. -0.01 min
 Lab File: BF083661.D
 Acq: 10 Dec 2015 2:46

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.0	19.4	29.0
265	20.2	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

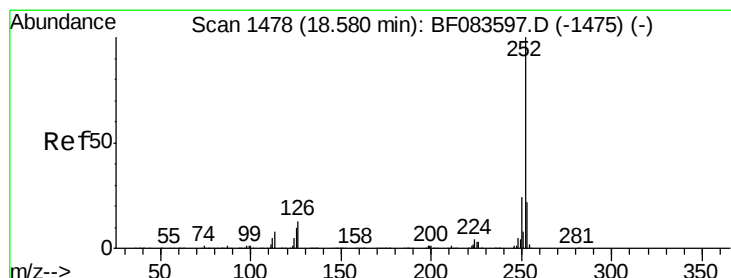
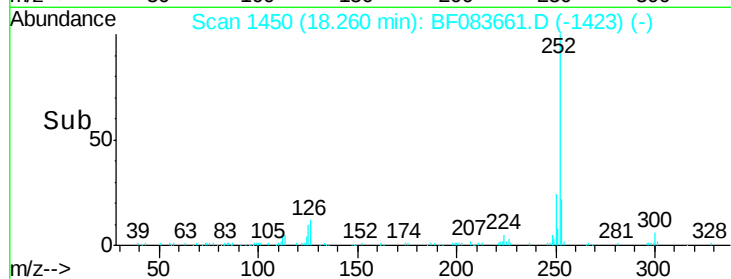
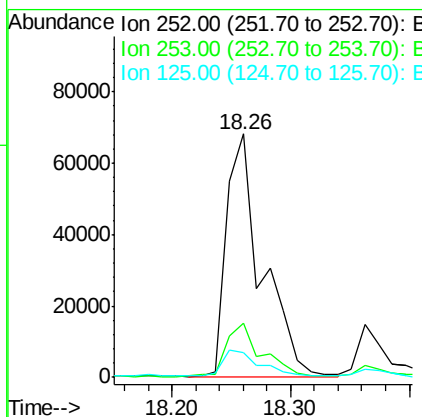
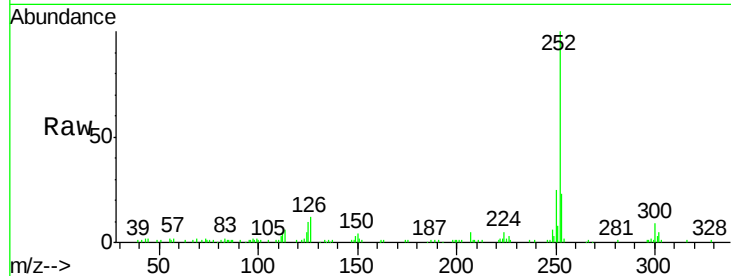




#87
Benzo(b)fluoranthene
Concen: 8.85 ng
RT: 18.26 min Scan# 1450
Delta R.T. 0.01 min
Lab File: BF083661.D
Acq: 10 Dec 2015 2:46

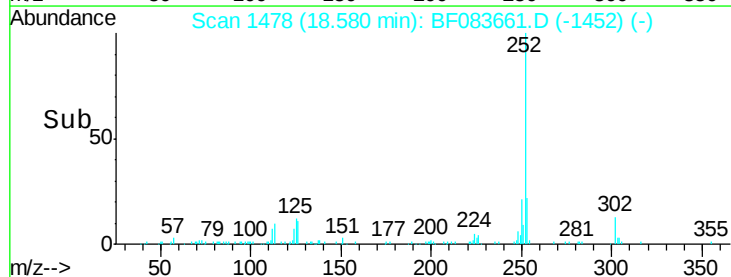
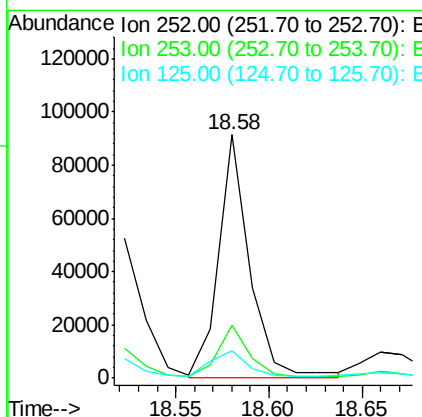
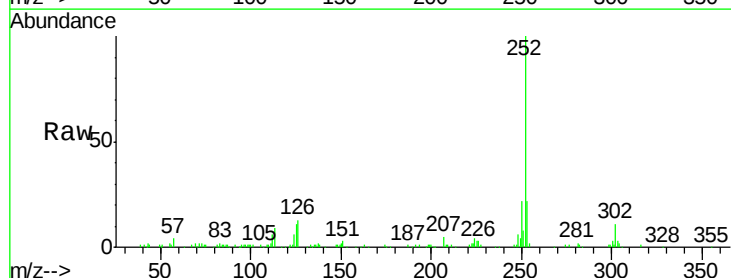
Instrument :
BNA_M
ClientSampleId :
SB-P3WC-15(0-8)DL

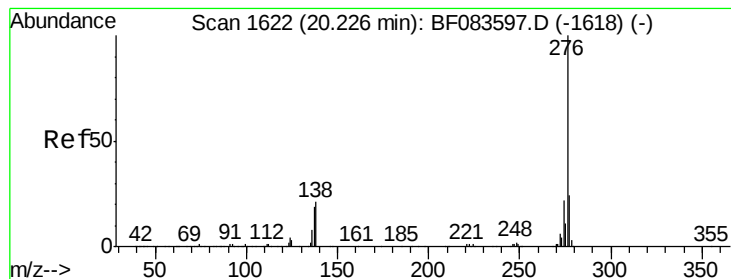
Tgt Ion: 252 Resp: 142429
Ion Ratio Lower Upper
252 100
253 22.5 18.2 27.4
125 10.2 8.2 12.4



#89
Benzo(a)pyrene
Concen: 6.70 ng
RT: 18.58 min Scan# 1478
Delta R.T. 0.00 min
Lab File: BF083661.D
Acq: 10 Dec 2015 2:46

Tgt Ion: 252 Resp: 105117
Ion Ratio Lower Upper
252 100
253 21.6 17.5 26.3
125 11.3 11.0 16.6





#91

Benzo(g,h,i)perylene

Concen: 4.15 ng

RT: 20.26 min Scan# 1625

Delta R.T. 0.03 min

Lab File: BF083661.D

Acq: 10 Dec 2015 2:46

Instrument :

BNA_M

ClientSampleId :

SB-P3WC-15(0-8)DL

Tgt Ion: 276 Resp: 48613

Ion Ratio Lower Upper

276 100

277 24.7 19.2 28.8

138 25.1 19.5 29.3

