

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF120915\
 Data File : BF083668.D
 Acq On : 10 Dec 2015 6:14
 Operator : UM/IZ
 Sample : G4583-09DL2 50X
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 SB-P3WC-09(0-8)DL2

Quant Time: Dec 10 06:43:24 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	121590	20.00	ng	-0.02
21) Naphthalene-d8	7.57	136	462796	20.00	ng	-0.03
38) Acenaphthene-d10	10.36	164	214384	20.00	ng	-0.02
63) Phenanthrene-d10	12.76	188	332130	20.00	ng	-0.02
75) Chrysene-d12	16.98	240	288232	20.00	ng	-0.01
86) Perylene-d12	18.63	264	229464	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	4.10	112	10578	1.32	ng	0.13
7) Phenol-d6	5.38	99	10328	0.96	ng	0.10
23) Nitrobenzene-d5	6.62	82	16355	1.65	ng	0.09
41) 2,4,6-Tribromophenol	11.71	330	2427	1.27	ng	0.02
44) 2-Fluorobiphenyl	9.33	172	37389	2.45	ng	-0.01
78) Terphenyl-d14	15.39	244	26616	2.17	ng	-0.02

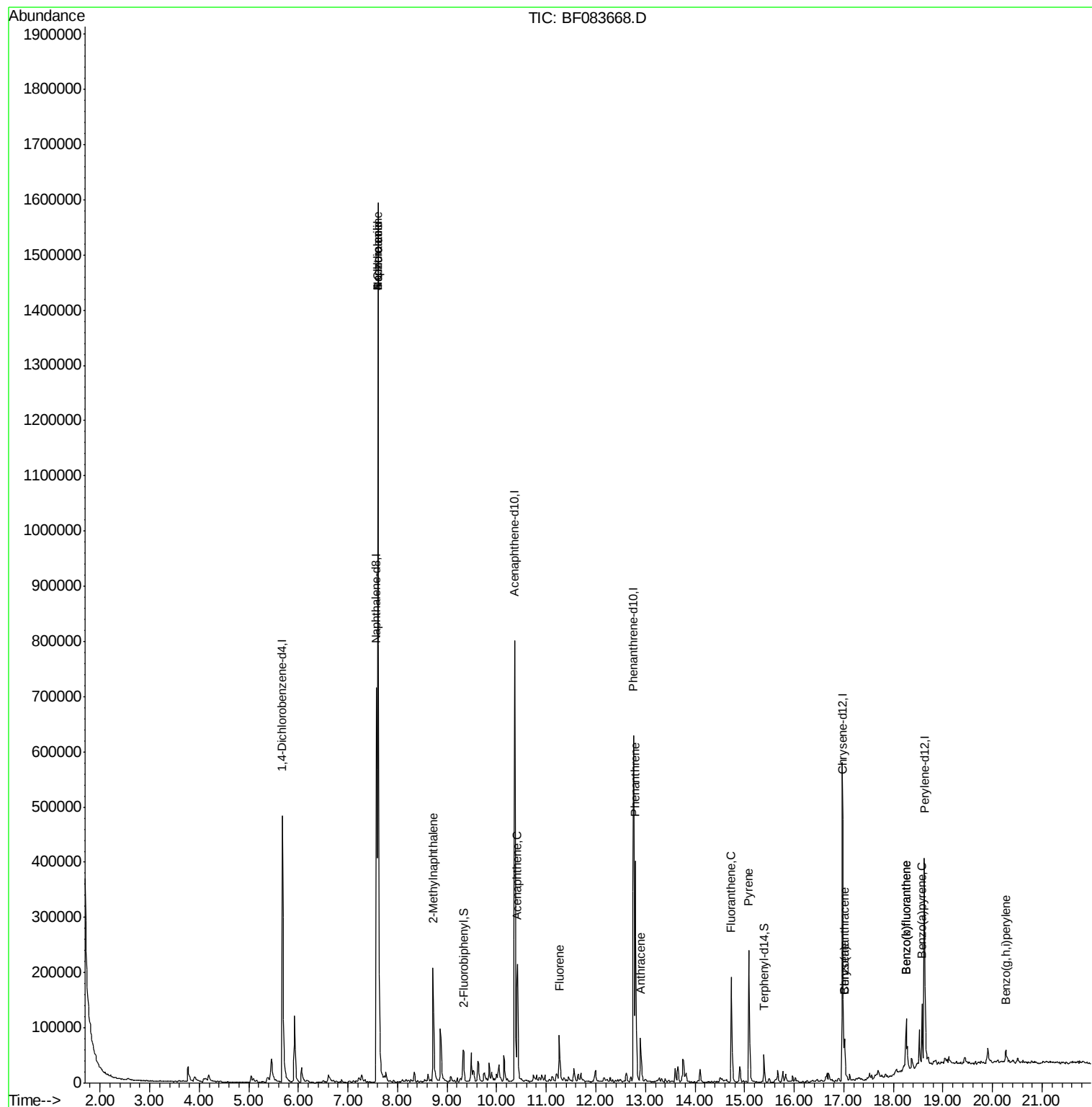
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	7.61	128	1017158	41.50	ng	99
32) Benzoic acid	7.61	122	2066	3.43	ng	# 1
33) 4-Chloroaniline	7.61	127	132771	14.85	ng	# 27
37) 2-Methylnaphthalene	8.72	142	96312	6.26	ng	98
51) Acenaphthene	10.42	154	79449	5.98	ng	98
57) Fluorene	11.27	166	43930	2.73	ng	99
70) Phenanthrene	12.80	178	265179	13.90	ng	98
71) Anthracene	12.90	178	65141	3.30	ng	98
74) Fluoranthene	14.73	202	143555	7.35	ng	99
77) Pyrene	15.08	202	174585	8.41	ng	98
80) Benzo(a)anthracene	17.01	228	55178	3.27	ng	97
82) Chrysene	17.01	228	55178	3.26	ng	99
87) Benzo(b)fluoranthene	18.26	252	67262	5.15	ng	97
88) Benzo(k)fluoranthene	18.26	252	67262	4.67	ng	97
89) Benzo(a)pyrene	18.58	252	47282	3.71	ng	96
91) Benzo(g,h,i)perylene	20.27	276	21733	2.29	ng	96

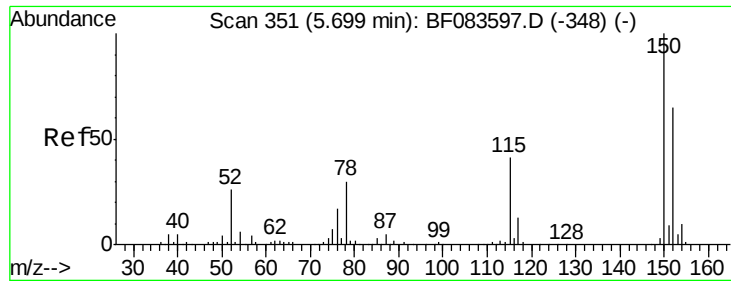
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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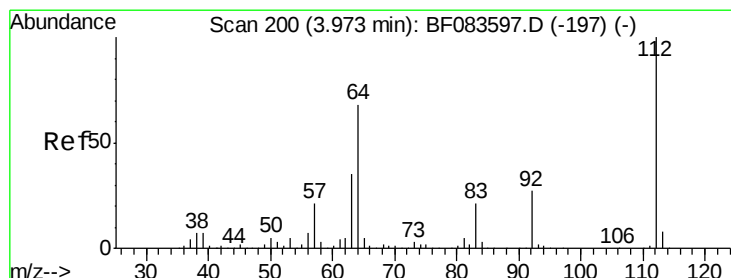
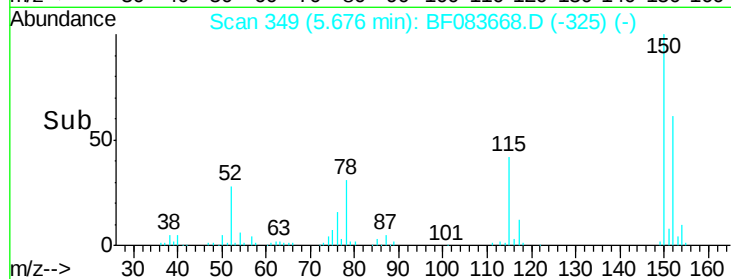
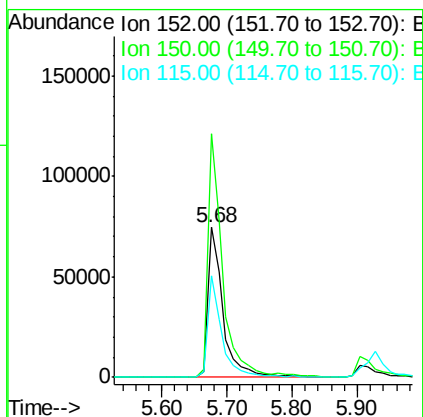
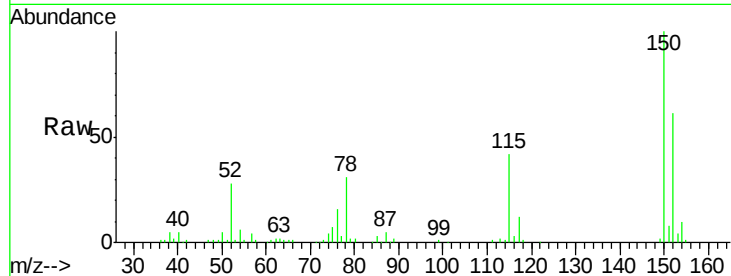


#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.68 min Scan# 349
Delta R.T. -0.02 min
Lab File: BF083668.D
Acq: 10 Dec 2015 6:14

Instrument :
BNA_M
ClientSampleId :
SB-P3WC-09(0-8)DL2

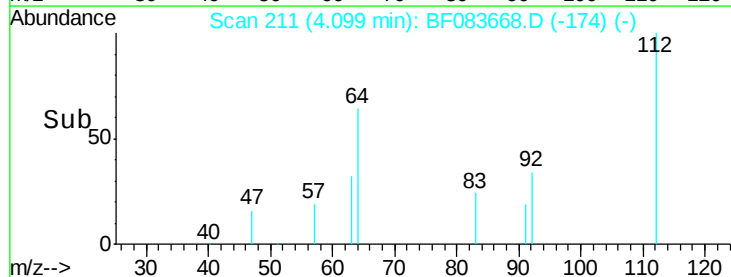
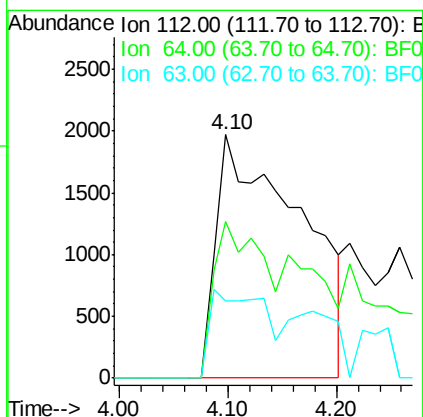
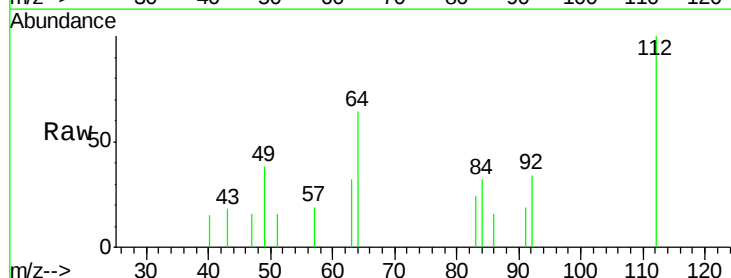
Tgt Ion:152 Resp: 121590
Ion Ratio Lower Upper
152 100
150 162.7 126.5 189.7
115 67.5 52.3 78.5

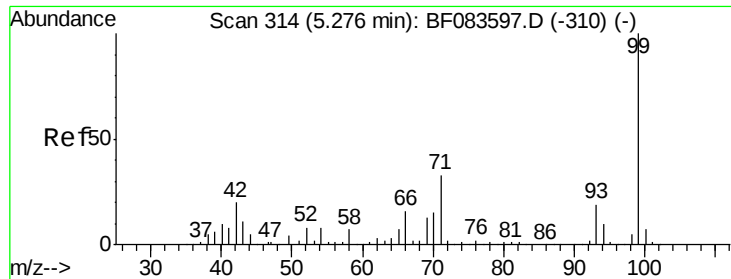


#5

2-Fluorophenol
Concen: 1.32 ng
RT: 4.10 min Scan# 211
Delta R.T. 0.13 min
Lab File: BF083668.D
Acq: 10 Dec 2015 6:14

Tgt Ion:112 Resp: 10578
Ion Ratio Lower Upper
112 100
64 64.1 50.5 75.7
63 31.6 25.8 38.6





#7

Phenol-d6

Concen: 0.96 ng

RT: 5.38 min Scan# 323

Delta R.T. 0.10 min

Lab File: BF083668.D

Acq: 10 Dec 2015 6:14

Instrument :

BNA_M

ClientSampleId :

SB-P3WC-09(0-8)DL2

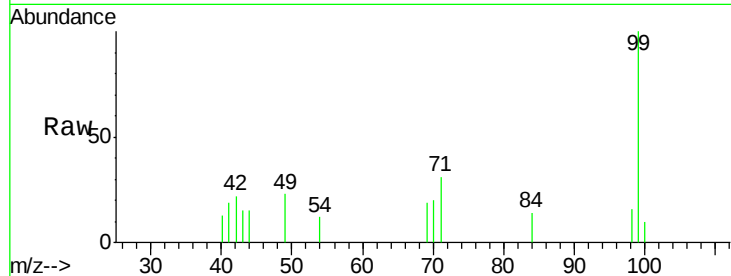
Tgt Ion: 99 Resp: 10328

Ion Ratio Lower Upper

99 100

42 21.9 17.3 25.9

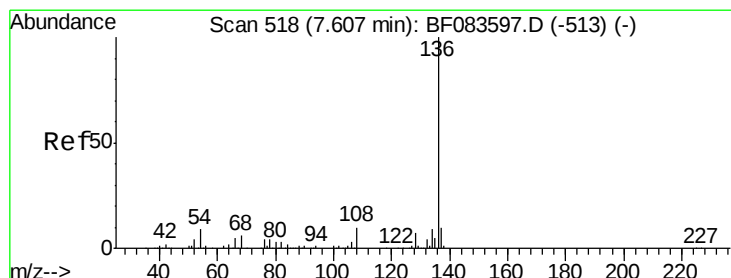
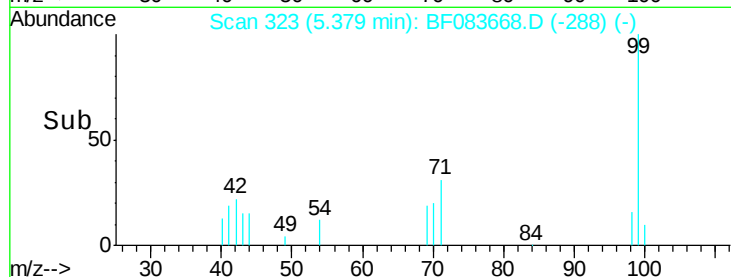
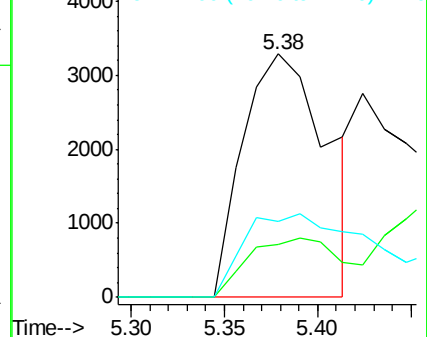
71 31.1 26.6 40.0



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: BF083668.D

Acq: 10 Dec 2015 6:14

Tgt Ion: 136 Resp: 462796

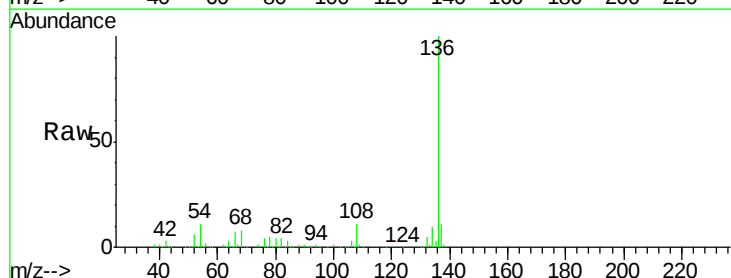
Ion Ratio Lower Upper

136 100

137 11.3 8.7 13.1

54 11.4 7.8 11.6

68 8.1 5.7 8.5

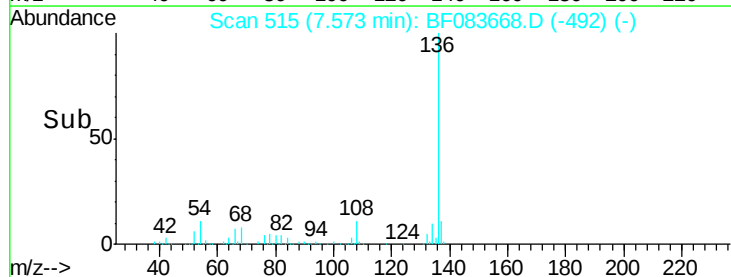
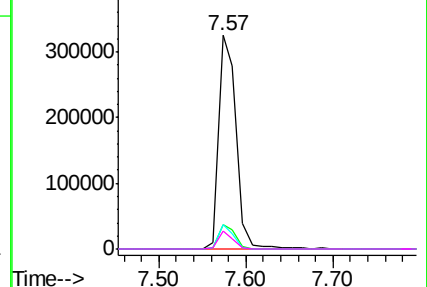


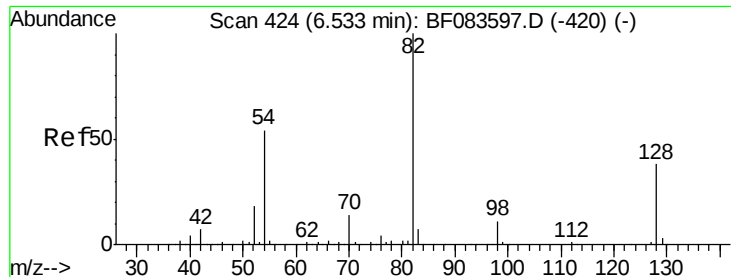
Abundance Ion 136.00 (135.70 to 136.70): E

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

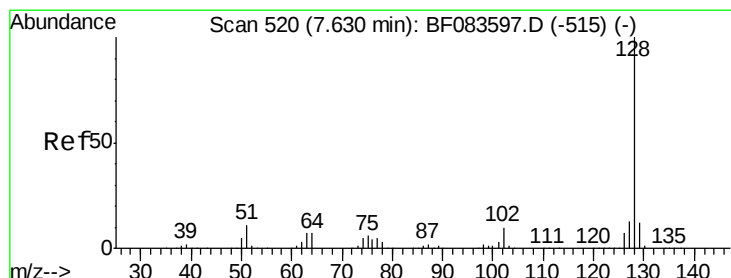
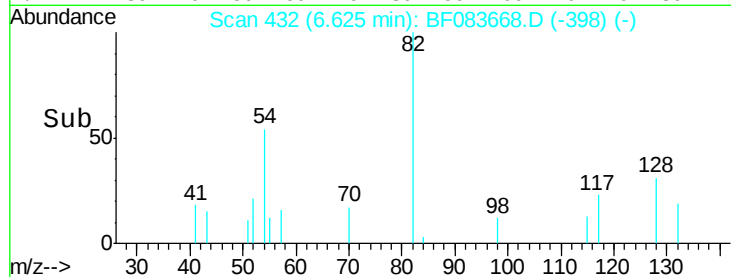
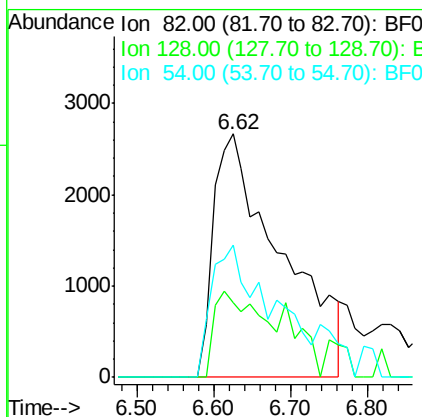
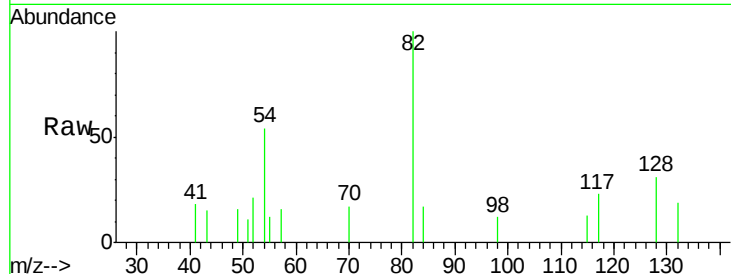




#23
 Nitrobenzene-d5
 Concen: 1.65 ng
 RT: 6.62 min Scan# 432
 Delta R.T. 0.09 min
 Lab File: BF083668.D
 Acq: 10 Dec 2015 6:14

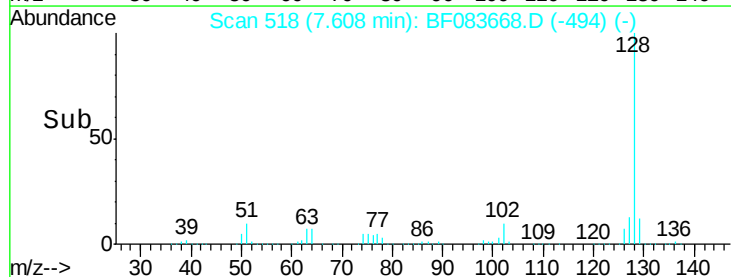
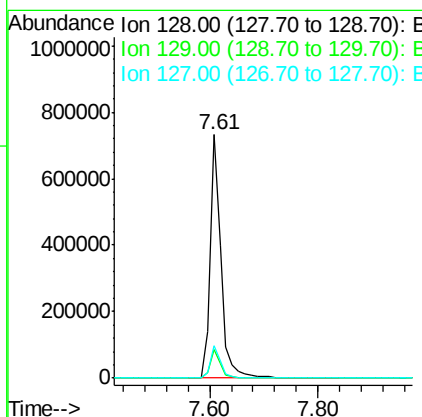
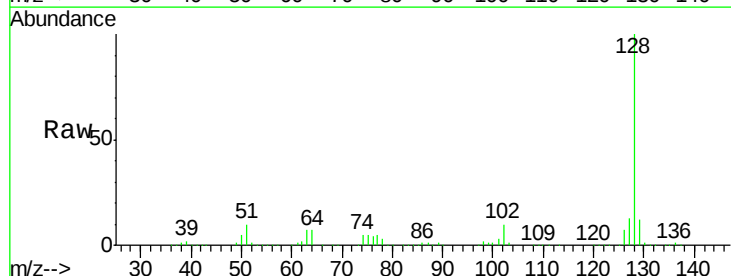
Instrument :
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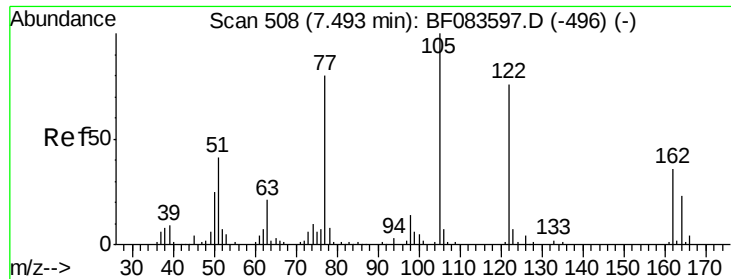
Tgt Ion	Ratio	Lower	Upper
82	100		
128	30.5	30.7	46.1#
54	54.2	42.5	63.7



#31
 Naphthalene
 Concen: 41.50 ng
 RT: 7.61 min Scan# 518
 Delta R.T. -0.02 min
 Lab File: BF083668.D
 Acq: 10 Dec 2015 6:14

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.6	8.6	13.0
127	13.2	10.6	16.0

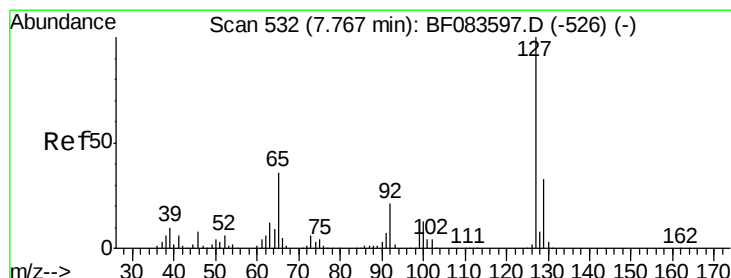
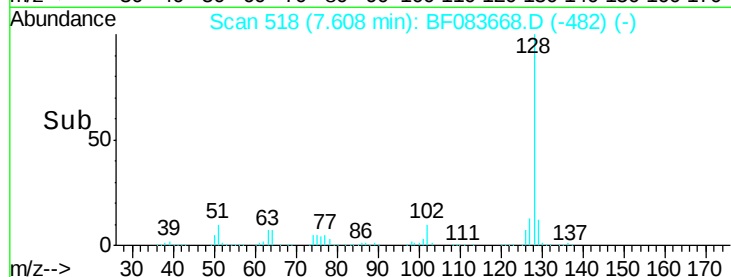
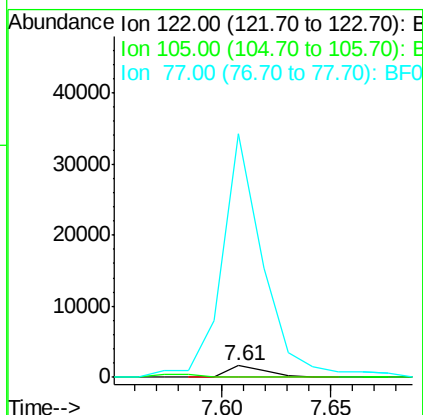
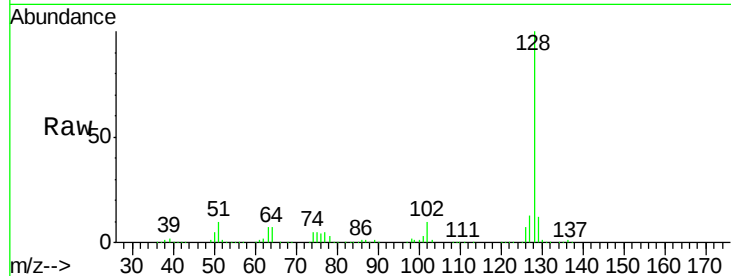




#32
Benzoic acid
Concen: 3.43 ng
RT: 7.61 min Scan# 518
Delta R.T. 0.12 min
Lab File: BF083668.D
Acq: 10 Dec 2015 6:14

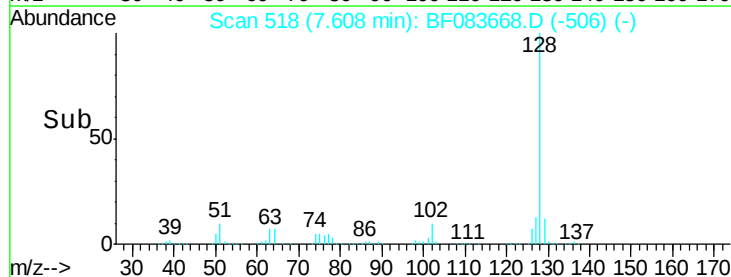
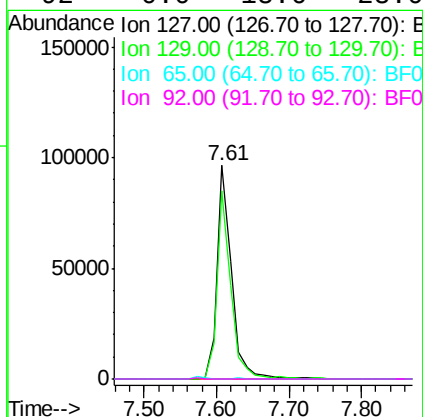
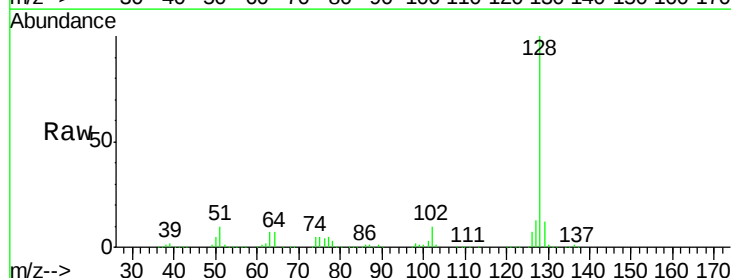
Instrument :
BNA_M
ClientSampleId :
SB-P3WC-09(0-8)DL2

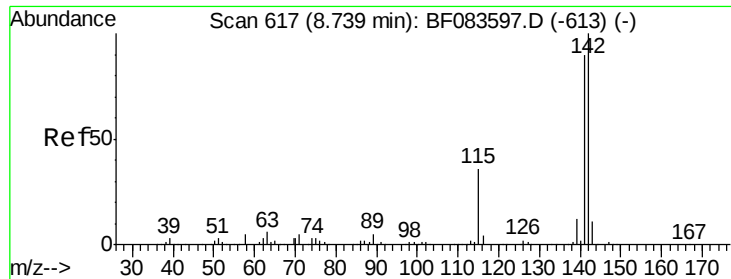
Tgt Ion:122 Resp: 2066
Ion Ratio Lower Upper
122 100
105 0.0 105.6 145.6#
77 2054.7 86.8 126.8#



#33
4-Chloroaniline
Concen: 14.85 ng
RT: 7.61 min Scan# 518
Delta R.T. -0.16 min
Lab File: BF083668.D
Acq: 10 Dec 2015 6:14

Tgt Ion:127 Resp: 132771
Ion Ratio Lower Upper
127 100
129 88.3 26.1 39.1#
65 0.0 33.5 50.3#
92 0.0 18.6 28.0#

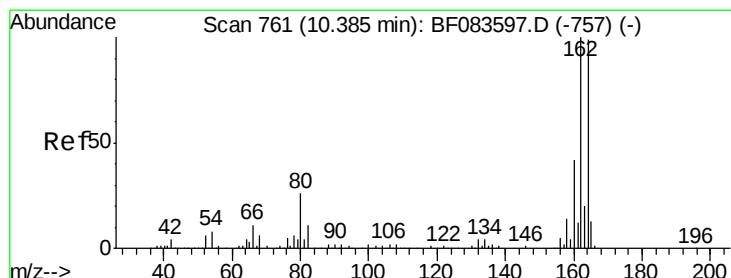
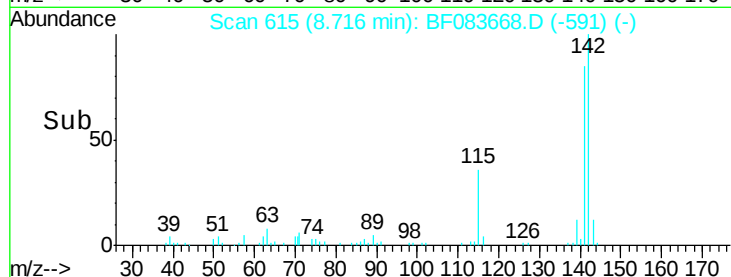
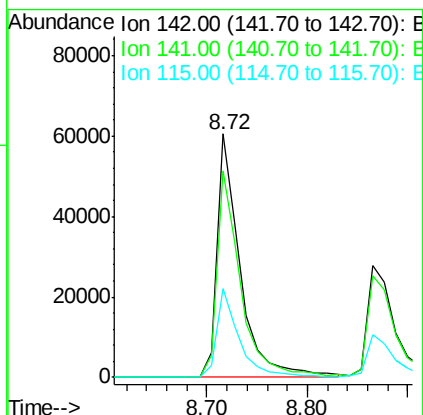
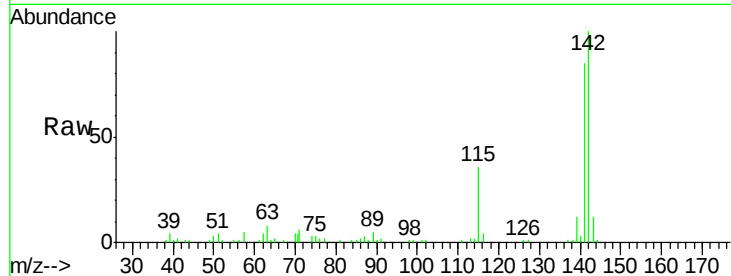




#37
2-Methylnaphthalene
Concen: 6.26 ng
RT: 8.72 min Scan# 615
Delta R.T. -0.02 min
Lab File: BF083668.D
Acq: 10 Dec 2015 6:14

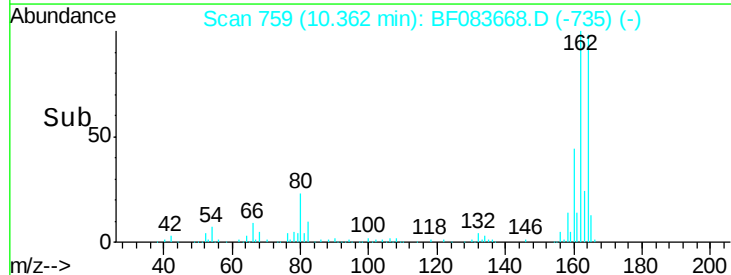
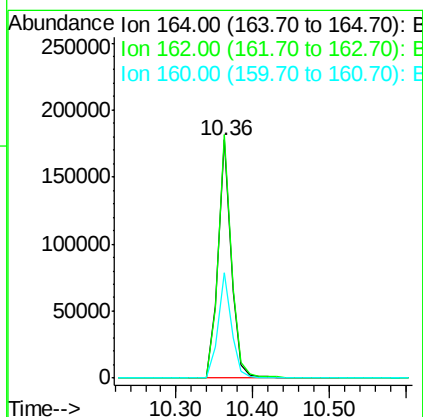
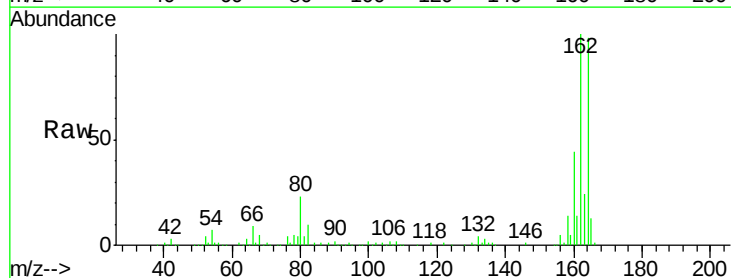
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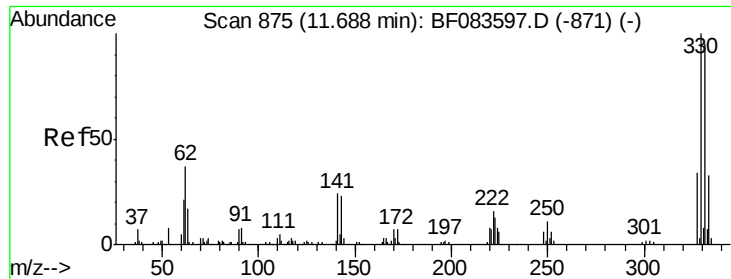
Tgt Ion:142 Resp: 96312
Ion Ratio Lower Upper
142 100
141 85.0 70.3 105.5
115 36.3 29.2 43.8



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.36 min Scan# 759
Delta R.T. -0.02 min
Lab File: BF083668.D
Acq: 10 Dec 2015 6:14

Tgt Ion:164 Resp: 214384
Ion Ratio Lower Upper
164 100
162 102.3 78.8 118.2
160 44.5 33.4 50.2

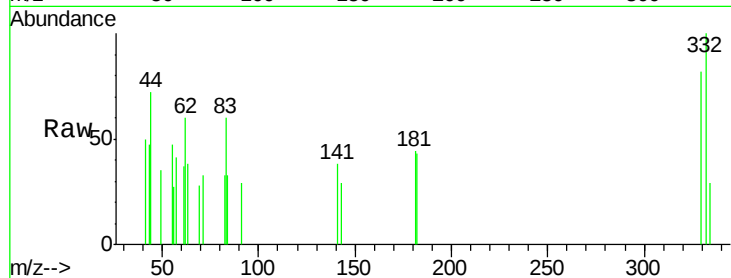




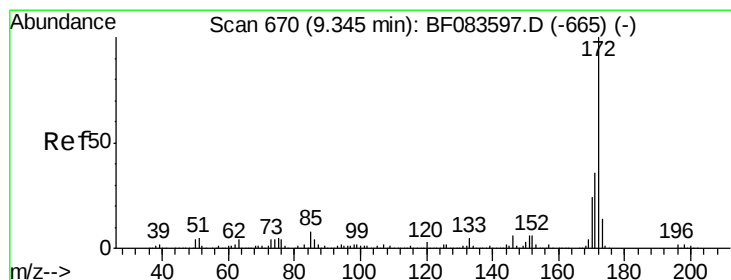
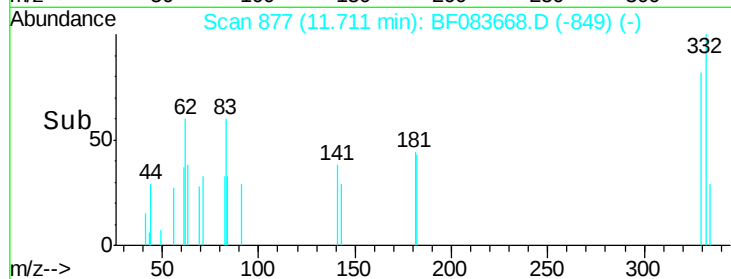
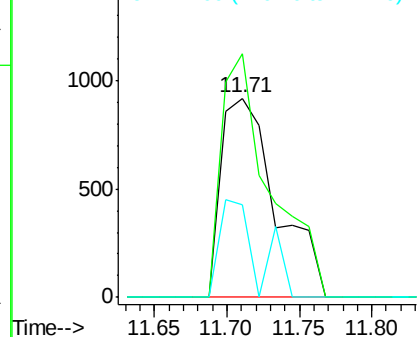
#41
 2,4,6-Tribromophenol
 Concen: 1.27 ng
 RT: 11.71 min Scan# 877
 Delta R.T. 0.02 min
 Lab File: BF083668.D
 Acq: 10 Dec 2015 6:14

Instrument :
 BNA_M
 ClientSampleId :
 SB-P3WC-09(0-8)DL2

Tgt Ion:330 Resp: 2427
 Ion Ratio Lower Upper
 330 100
 332 108.0 0.0 0.0#
 141 34.0 0.0 0.0#

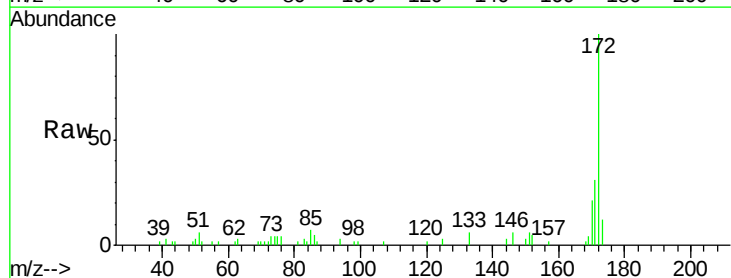


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

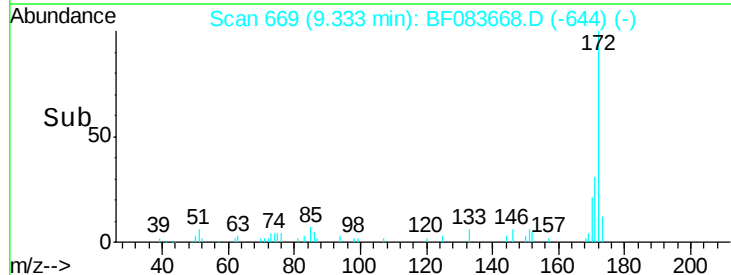
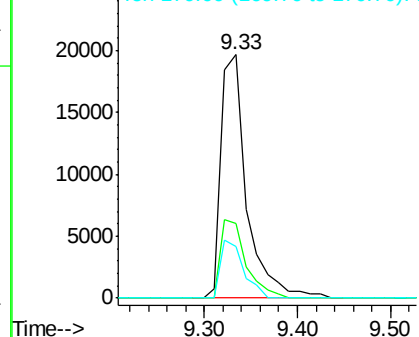


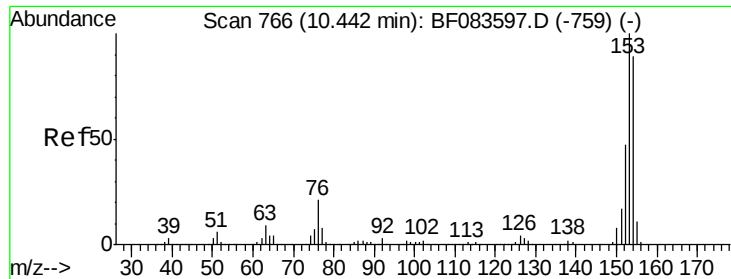
#44
 2-Fluorobiphenyl
 Concen: 2.45 ng
 RT: 9.33 min Scan# 669
 Delta R.T. -0.01 min
 Lab File: BF083668.D
 Acq: 10 Dec 2015 6:14

Tgt Ion:172 Resp: 37389
 Ion Ratio Lower Upper
 172 100
 171 30.5 28.6 42.8
 170 21.2 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





#51

Acenaphthene

Concen: 5.98 ng

RT: 10.42 min Scan# 764

Delta R.T. -0.02 min

Lab File: BF083668.D

Acq: 10 Dec 2015 6:14

Instrument :

BNA_M

ClientSampleId :

SB-P3WC-09(0-8)DL2

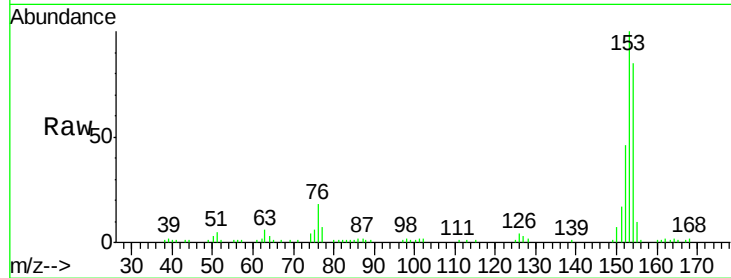
Tgt Ion:154 Resp: 79449

Ion Ratio Lower Upper

154 100

153 117.3 91.4 137.0

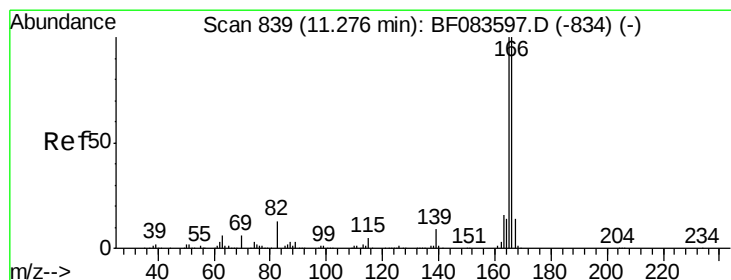
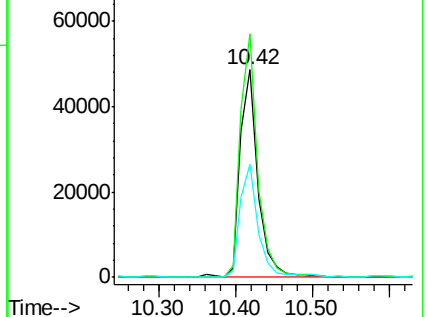
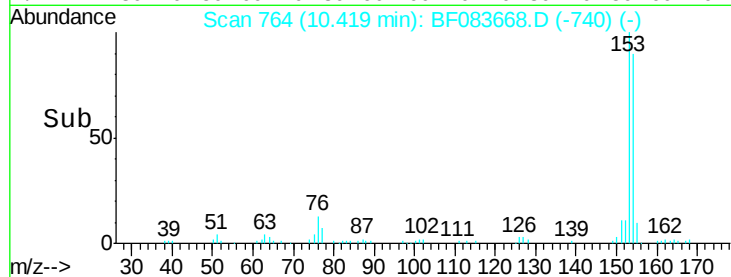
152 54.4 43.4 65.2



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: 2.73 ng

RT: 11.27 min Scan# 838

Delta R.T. -0.01 min

Lab File: BF083668.D

Acq: 10 Dec 2015 6:14

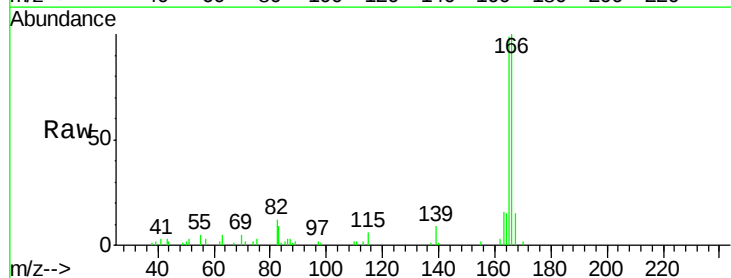
Tgt Ion:166 Resp: 43930

Ion Ratio Lower Upper

166 100

165 99.4 80.0 120.0

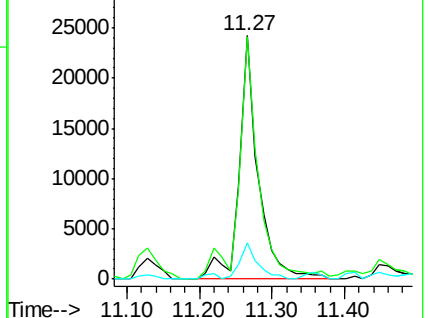
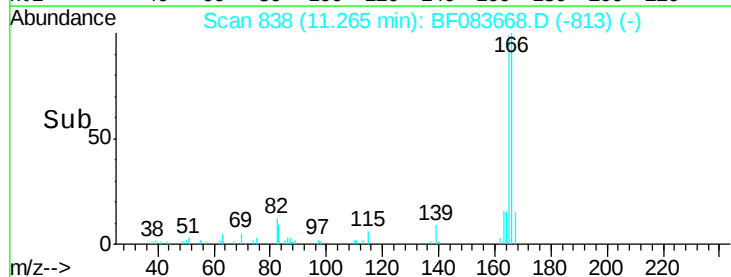
167 14.7 10.6 16.0

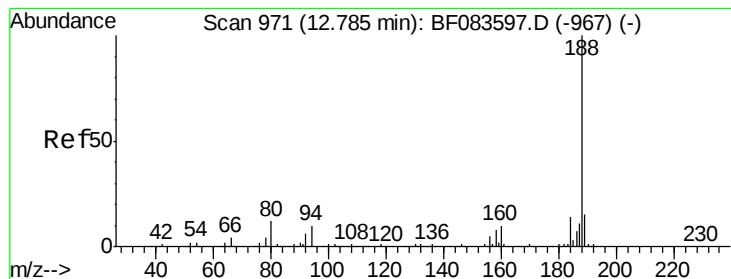


Abundance Ion 166.00 (165.70 to 166.70): E

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: BF083668.D

Acq: 10 Dec 2015 6:14

Instrument :

BNA_M

ClientSampleId :

SB-P3WC-09(0-8)DL2

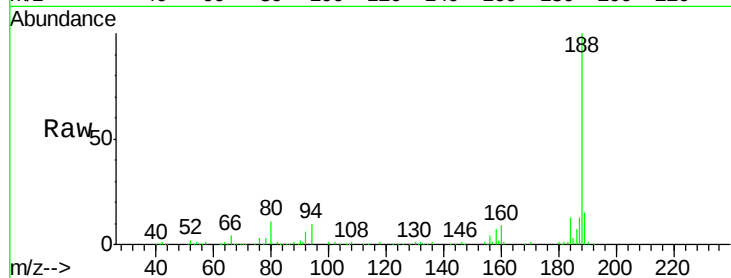
Tgt Ion:188 Resp: 332130

Ion Ratio Lower Upper

188 100

94 9.6 9.4 14.2

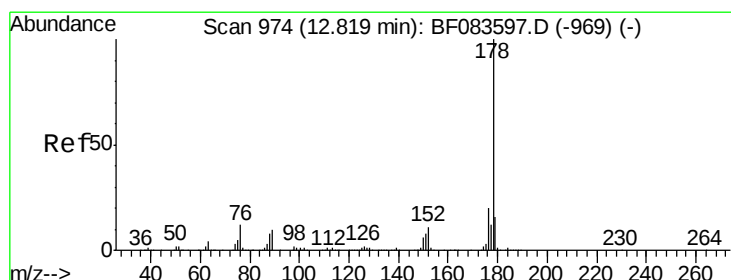
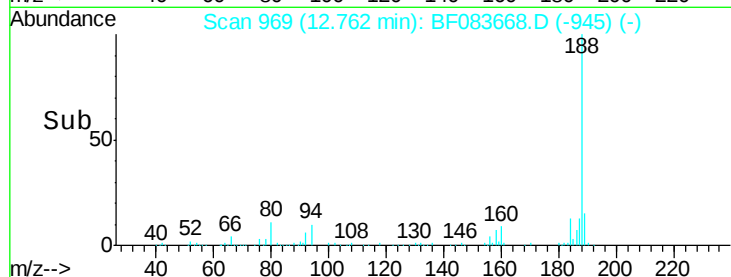
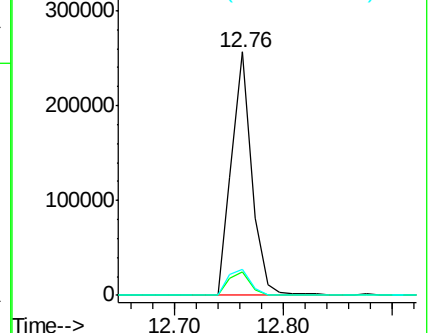
80 10.7 10.6 16.0



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: 13.90 ng

RT: 12.80 min Scan# 972

Delta R.T. -0.02 min

Lab File: BF083668.D

Acq: 10 Dec 2015 6:14

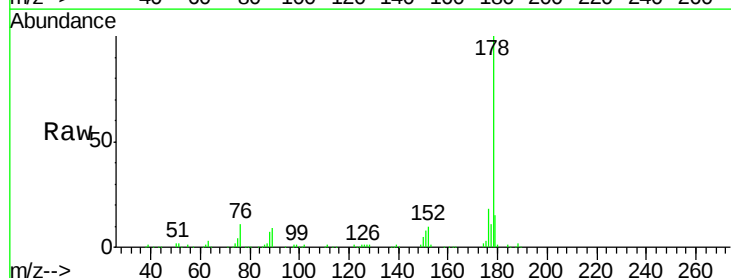
Tgt Ion:178 Resp: 265179

Ion Ratio Lower Upper

178 100

176 18.3 15.7 23.5

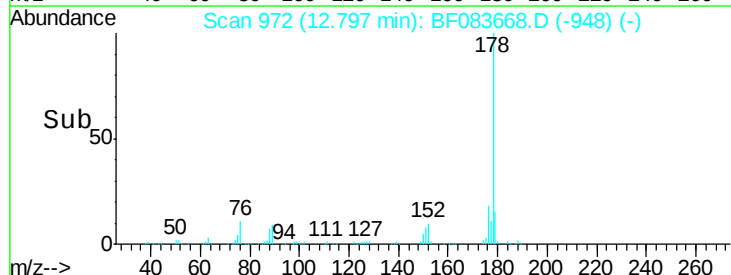
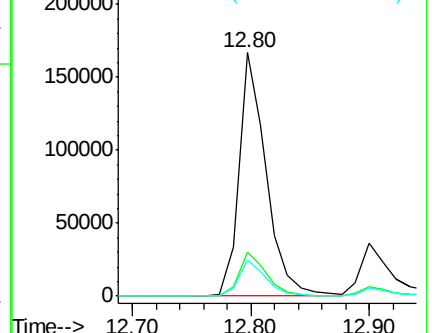
179 14.7 12.2 18.4

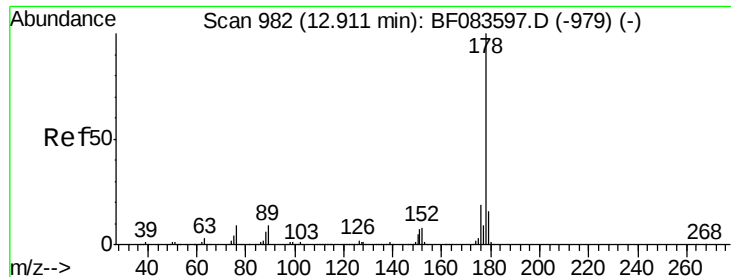


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

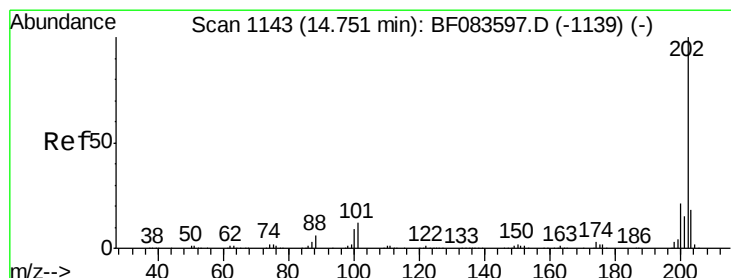
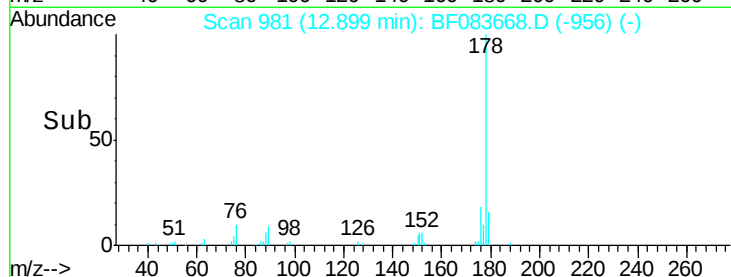
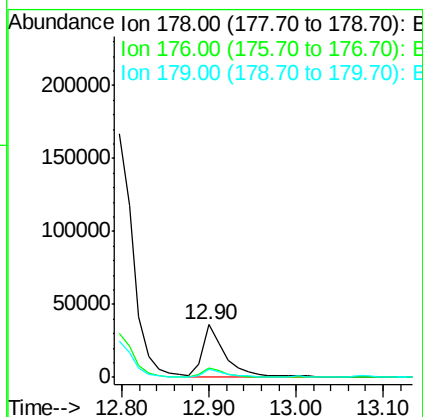
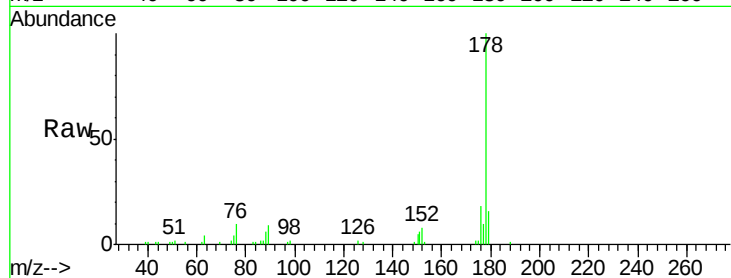




#71
 Anthracene
 Concen: 3.30 ng
 RT: 12.90 min Scan# 981
 Delta R.T. -0.01 min
 Lab File: BF083668.D
 Acq: 10 Dec 2015 6:14

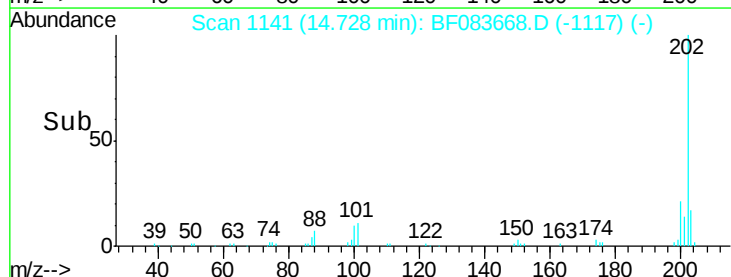
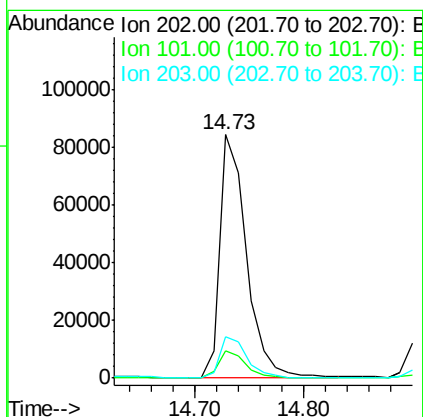
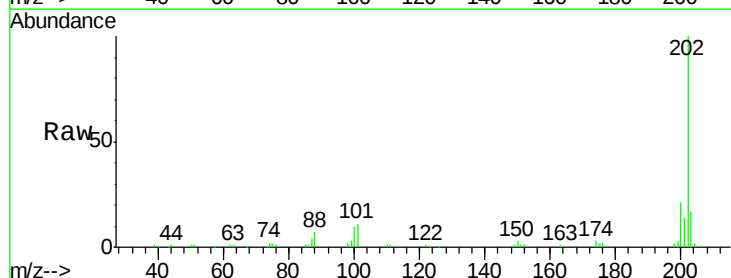
Instrument :
 BNA_M
 ClientSampleId :
 SB-P3WC-09(0-8)DL2

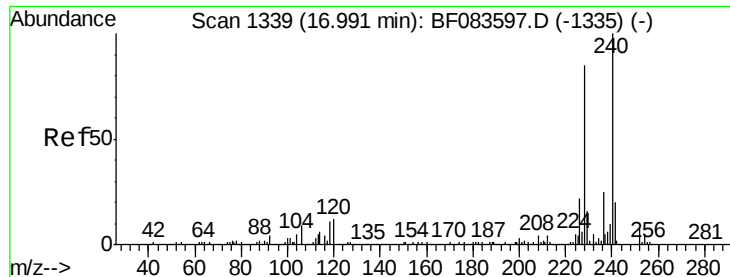
Tgt Ion:178 Resp: 65141
 Ion Ratio Lower Upper
 178 100
 176 17.9 15.2 22.8
 179 15.9 12.6 18.8



#74
 Fluoranthene
 Concen: 7.35 ng
 RT: 14.73 min Scan# 1141
 Delta R.T. -0.02 min
 Lab File: BF083668.D
 Acq: 10 Dec 2015 6:14

Tgt Ion:202 Resp: 143555
 Ion Ratio Lower Upper
 202 100
 101 11.2 0.0 31.5
 203 17.2 0.0 37.6

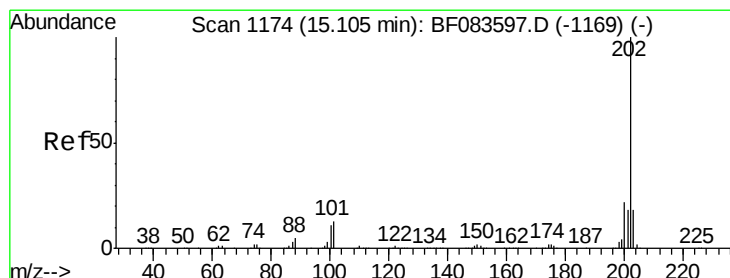
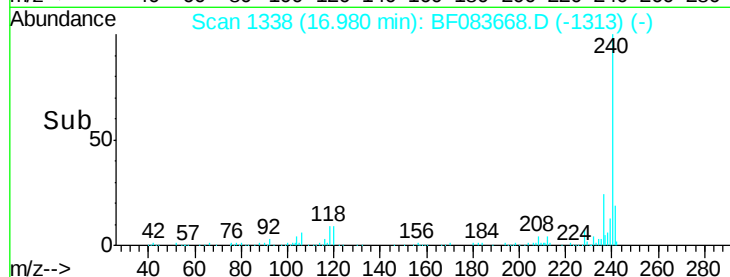
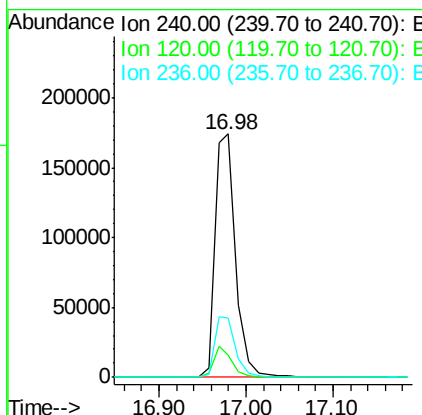
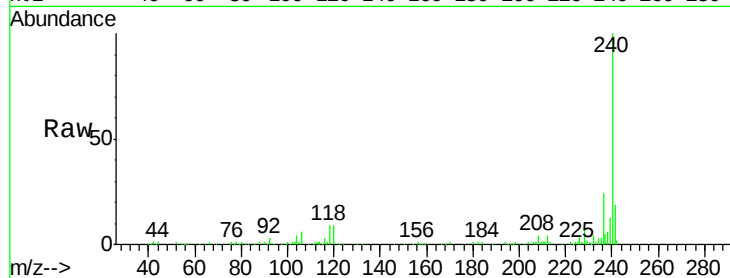




#75
Chrysene-d12
Concen: 20.00 ng
RT: 16.98 min Scan# 1338
Delta R.T. -0.01 min
Lab File: BF083668.D
Acq: 10 Dec 2015 6:14

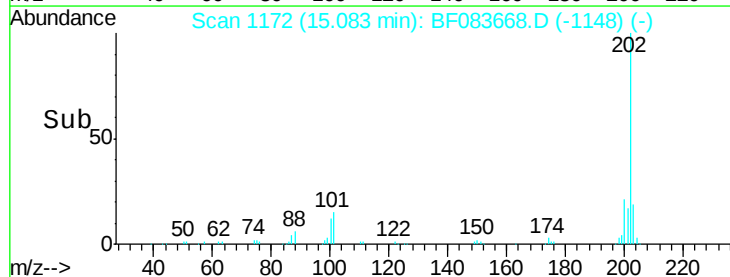
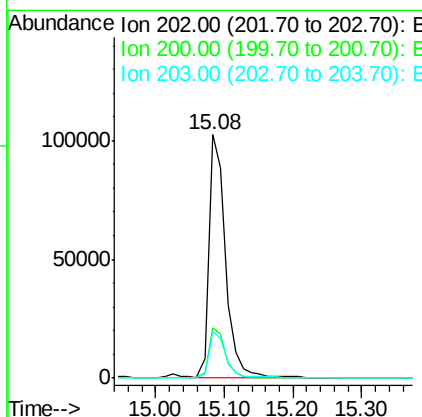
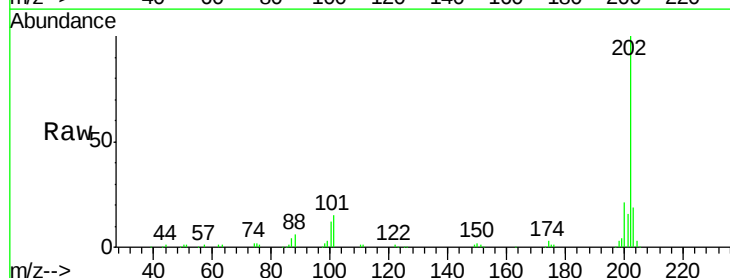
Instrument :
BNA_M
ClientSampleId :
SB-P3WC-09(0-8)DL2

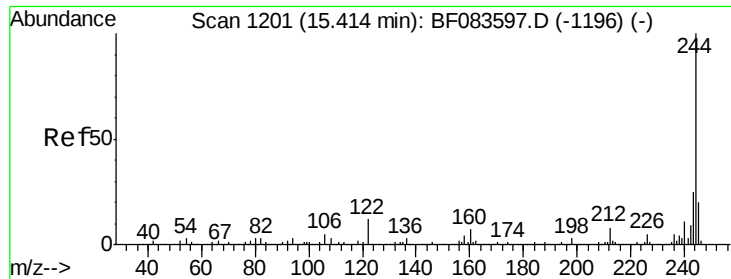
Tgt Ion:240 Resp: 288232
Ion Ratio Lower Upper
240 100
120 9.3 8.1 12.1
236 24.1 20.8 31.2



#77
Pyrene
Concen: 8.41 ng
RT: 15.08 min Scan# 1172
Delta R.T. -0.02 min
Lab File: BF083668.D
Acq: 10 Dec 2015 6:14

Tgt Ion:202 Resp: 174585
Ion Ratio Lower Upper
202 100
200 20.6 16.7 25.1
203 19.0 14.3 21.5





#78

Terphenyl-d14

Concen: 2.17 ng

RT: 15.39 min Scan# 1199

Delta R.T. -0.02 min

Lab File: BF083668.D

Acq: 10 Dec 2015 6:14

Instrument :

BNA_M

ClientSampleId :

SB-P3WC-09(0-8)DL2

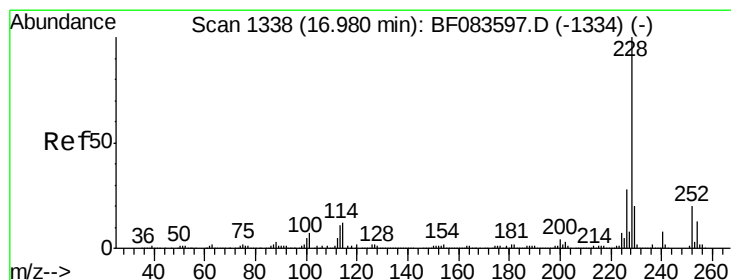
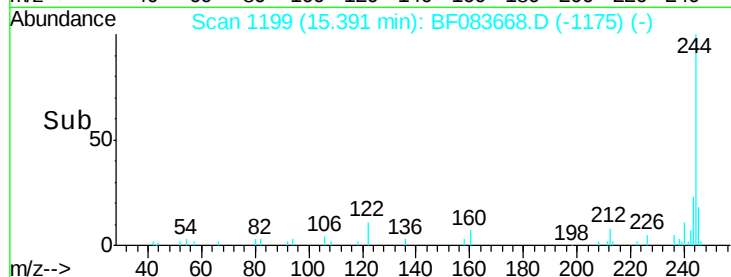
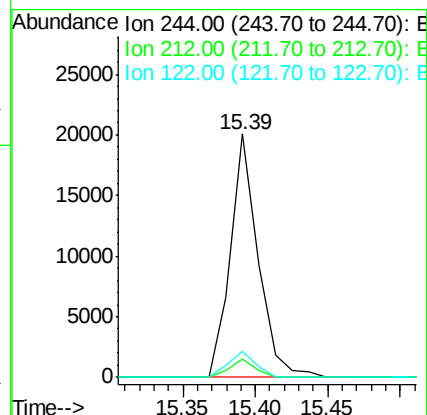
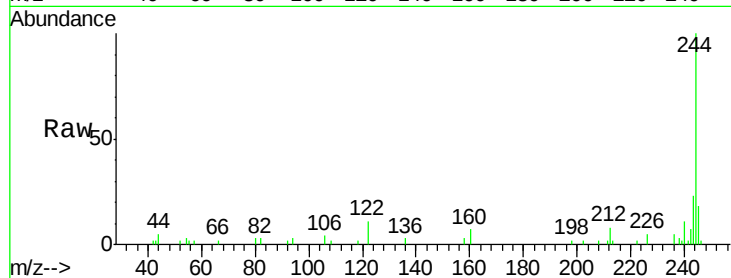
Tgt Ion:244 Resp: 26616

Ion Ratio Lower Upper

244 100

212 7.7 6.1 9.1

122 10.6 11.0 16.6#



#80

Benzo(a)anthracene

Concen: 3.27 ng

RT: 17.01 min Scan# 1341

Delta R.T. 0.03 min

Lab File: BF083668.D

Acq: 10 Dec 2015 6:14

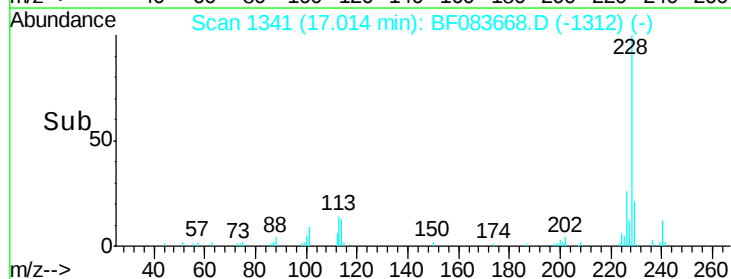
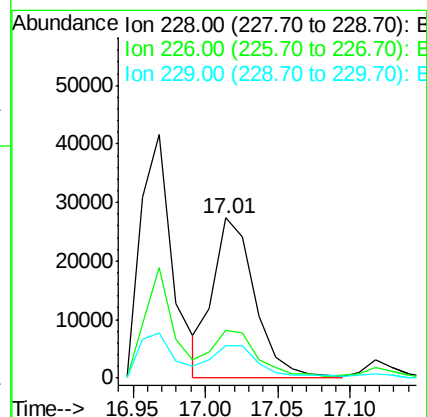
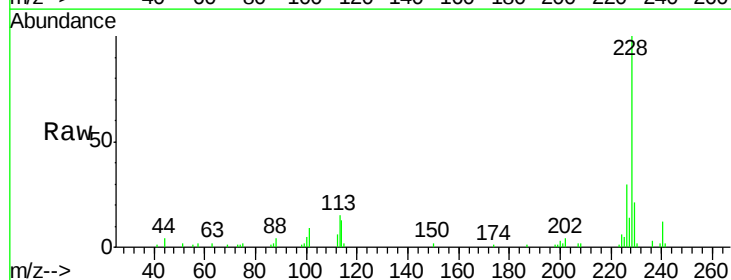
Tgt Ion:228 Resp: 55178

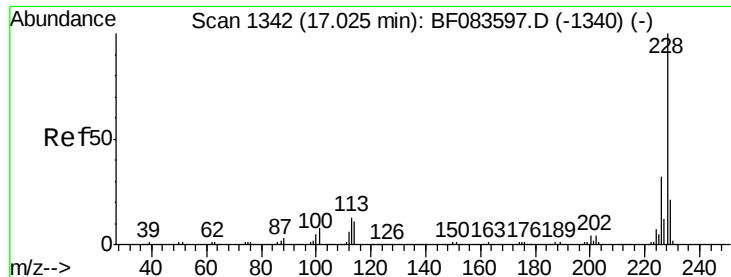
Ion Ratio Lower Upper

228 100

226 29.8 22.3 33.5

229 20.6 15.7 23.5





#82

Chrysene

Concen: 3.26 ng

RT: 17.01 min Scan# 1341

Delta R.T. -0.01 min

Lab File: BF083668.D

Acq: 10 Dec 2015 6:14

Instrument :

BNA_M

ClientSampleId :

SB-P3WC-09(0-8)DL2

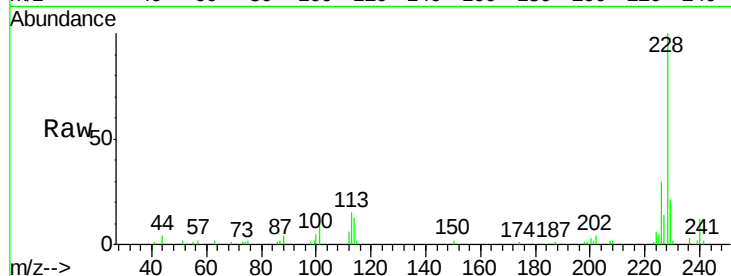
Tgt Ion:228 Resp: 55178

Ion Ratio Lower Upper

228 100

226 29.8 24.7 37.1

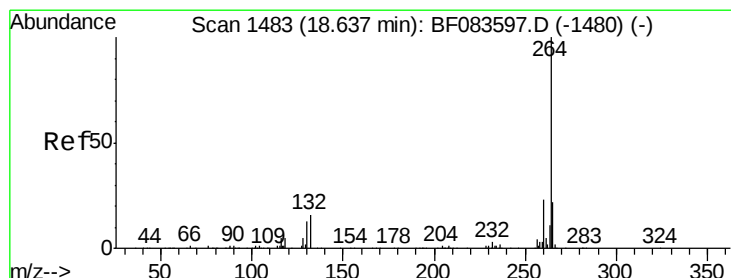
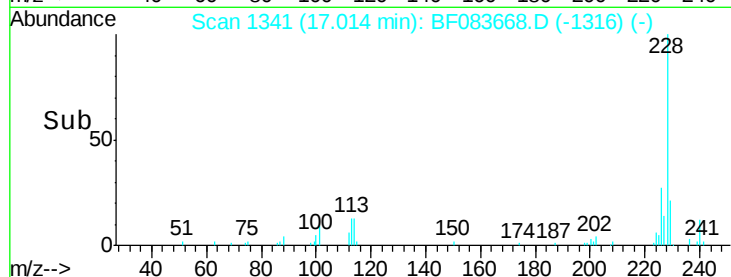
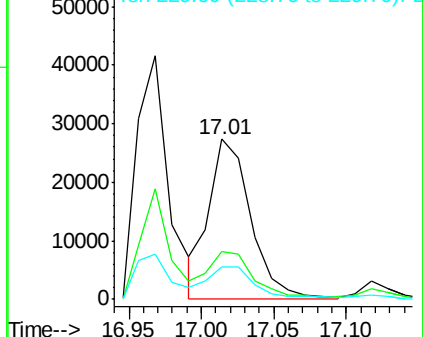
229 20.6 16.3 24.5



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: BF083668.D

Acq: 10 Dec 2015 6:14

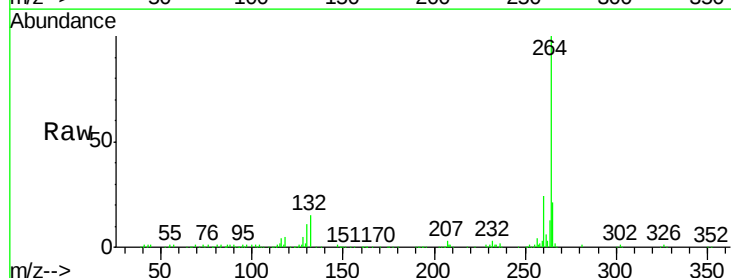
Tgt Ion:264 Resp: 229464

Ion Ratio Lower Upper

264 100

260 23.5 19.4 29.0

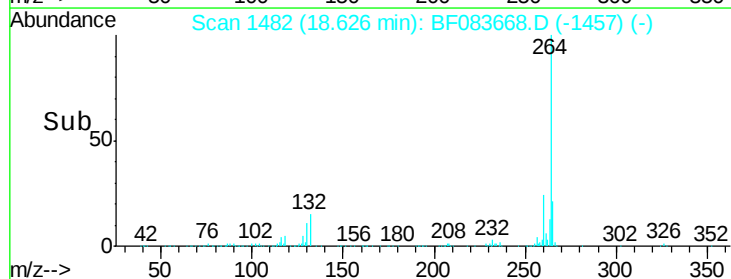
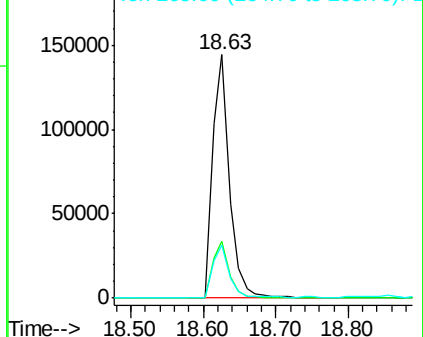
265 21.5 17.8 26.6

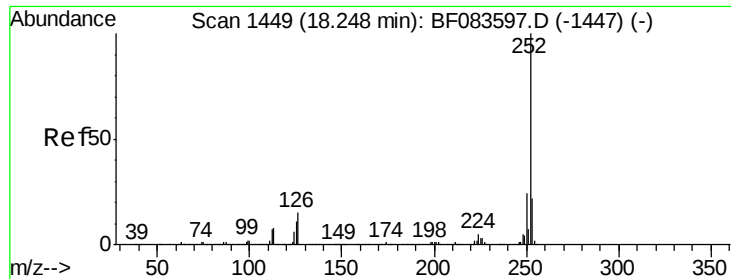


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

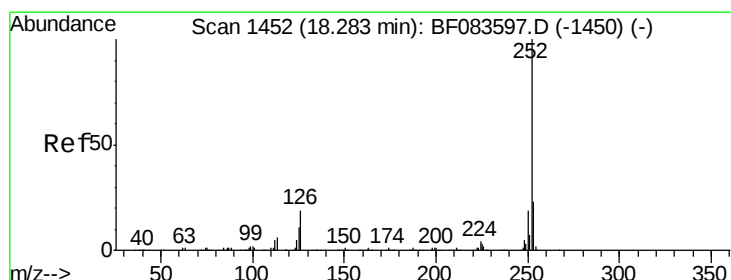
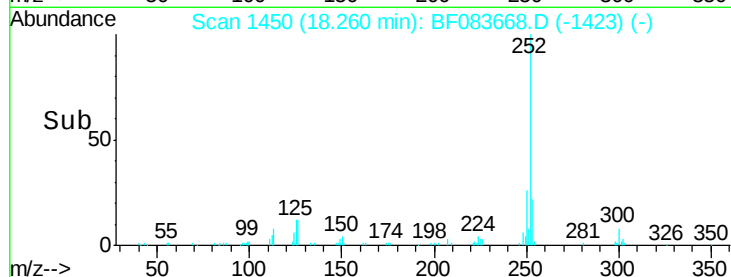
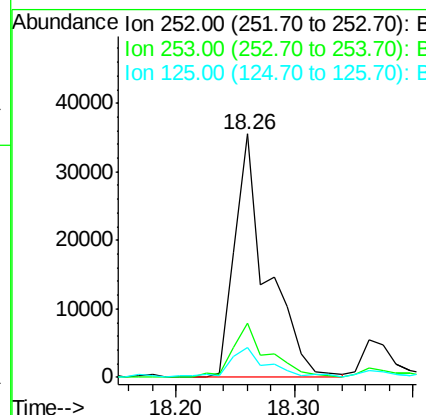
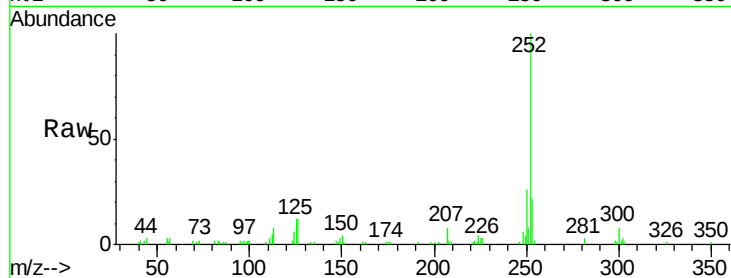




#87
Benzo(b)fluoranthene
Concen: 5.15 ng
RT: 18.26 min Scan# 1450
Delta R.T. 0.01 min
Lab File: BF083668.D
Acq: 10 Dec 2015 6:14

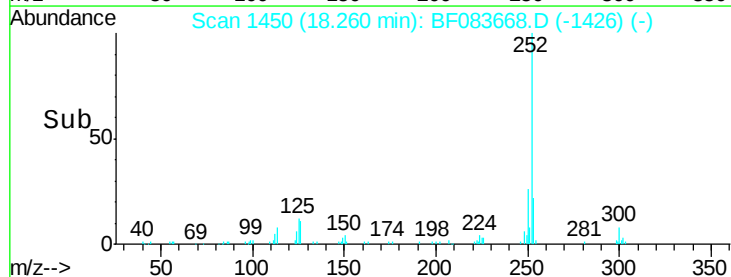
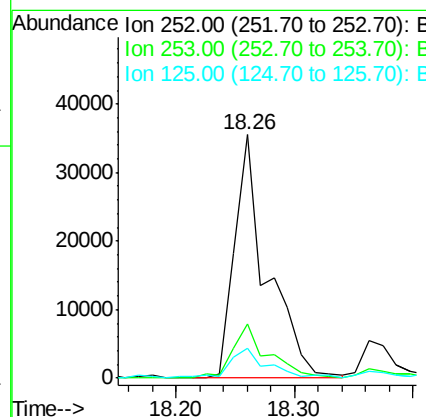
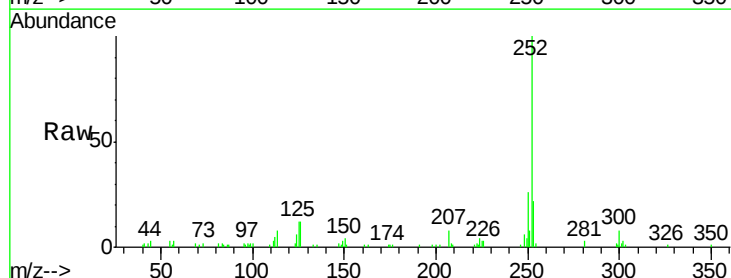
Instrument :
BNA_M
ClientSampleId :
SB-P3WC-09(0-8)DL2

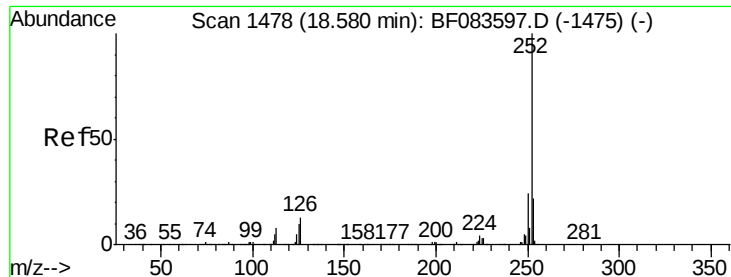
Tgt Ion:252 Resp: 67262
Ion Ratio Lower Upper
252 100
253 22.1 18.2 27.4
125 12.3 8.2 12.4



#88
Benzo(k)fluoranthene
Concen: 4.67 ng
RT: 18.26 min Scan# 1450
Delta R.T. -0.02 min
Lab File: BF083668.D
Acq: 10 Dec 2015 6:14

Tgt Ion:252 Resp: 67262
Ion Ratio Lower Upper
252 100
253 22.1 18.6 27.8
125 12.3 11.5 17.3





#89

Benzo(a)pyrene

Concen: 3.71 ng

RT: 18.58 min Scan# 1478

Delta R.T. 0.00 min

Lab File: BF083668.D

Acq: 10 Dec 2015 6:14

Instrument :

BNA_M

ClientSampleId :

SB-P3WC-09(0-8)DL2

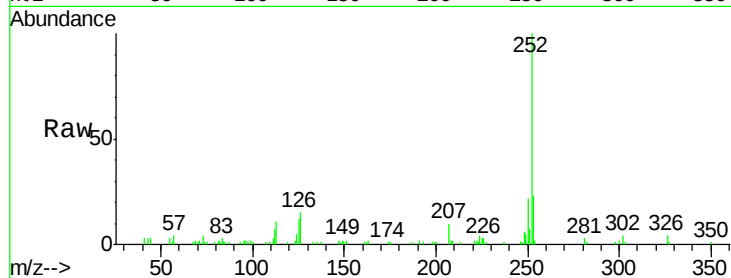
Tgt Ion:252 Resp: 47282

Ion Ratio Lower Upper

252 100

253 23.2 17.5 26.3

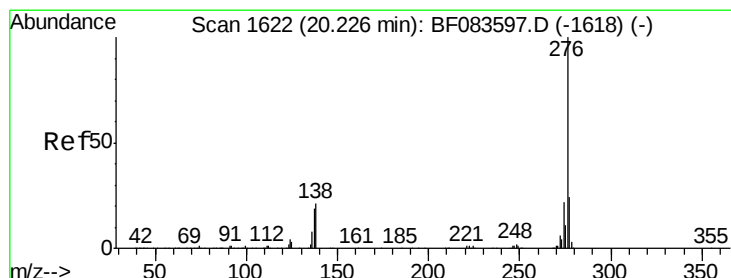
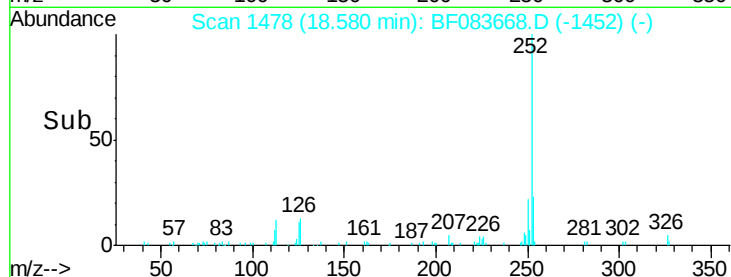
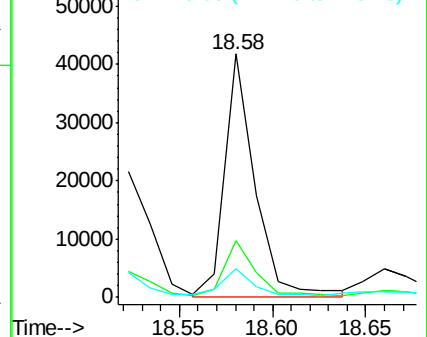
125 11.7 11.0 16.6



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



#91

Benzo(g,h,i)perylene

Concen: 2.29 ng

RT: 20.27 min Scan# 1626

Delta R.T. 0.05 min

Lab File: BF083668.D

Acq: 10 Dec 2015 6:14

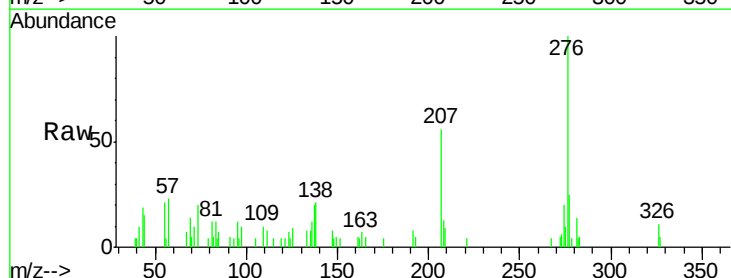
Tgt Ion:276 Resp: 21733

Ion Ratio Lower Upper

276 100

277 24.8 19.2 28.8

138 20.8 19.5 29.3



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

