

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101015\
 Data File : BF082211.D
 Acq On : 11 Oct 2015 8:39
 Operator : UM/IZ
 Sample : G3974-01DL2 100X
 Misc :
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Oct 12 03:07:07 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 12 02:59:50 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.83	152	93198	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	374535	20.00	ng	0.00
38) Acenaphthene-d10	9.89	164	176705	20.00	ng	0.00
63) Phenanthrene-d10	11.37	188	307350	20.00	ng	0.00
75) Chrysene-d12	14.01	240	240022	20.00	ng	0.00
86) Perylene-d12	15.44	264	227871	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.43	112	3040	0.66	ng	0.00
7) Phenol-d6	6.47	99	3296	0.55	ng	-0.01
23) Nitrobenzene-d5	7.41	82	1653	0.30	ng	-0.01
41) 2,4,6-Tribromophenol	10.67	330	966	0.58	ng	0.00
44) 2-Fluorobiphenyl	9.20	172	7820	0.73	ng	-0.01
78) Terphenyl-d14	12.95	244	5867	0.65	ng	-0.01

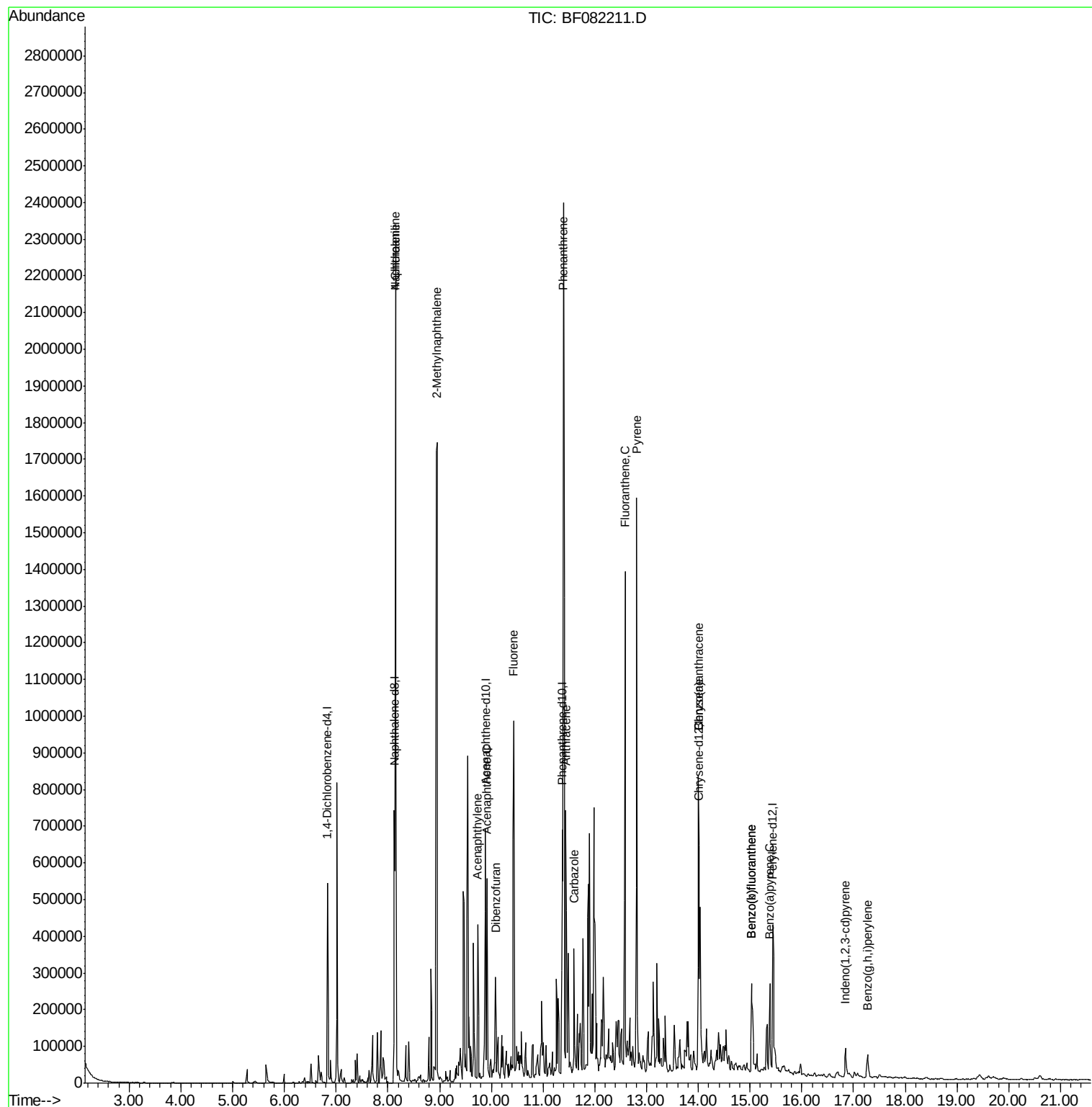
Target Compounds						Qvalue
31) Naphthalene	8.15	128	1278511	78.75	ng	99
33) 4-Chloroaniline	8.15	127	172854	25.64	ng	# 32
37) 2-Methylnaphthalene	8.95	142	764276	67.90	ng	96
48) Acenaphthylene	9.74	152	124363	7.53	ng	# 94
51) Acenaphthene	9.91	154	157050	15.83	ng	99
54) Dibenzofuran	10.08	168	95089	6.98	ng	# 88
55) 4-Nitrophenol	9.99	139	1282	Below Cal		# 64
57) Fluorene	10.43	166	371328	33.20	ng	98
70) Phenanthrene	11.40	178	1230859	81.70	ng	99
71) Anthracene	11.44	178	423276	27.27	ng	99
72) Carbazole	11.60	167	38263	2.70	ng	98
74) Fluoranthene	12.58	202	582884	36.02	ng	99
77) Pyrene	12.81	202	670570	47.08	ng	99
80) Benzo(a)anthracene	14.00	228	267195	21.40	ng	# 91
82) Chrysene	14.00	228	267195	20.31	ng	94
85) Indeno(1,2,3-cd)pyrene	16.85	276	60039	5.74	ng	# 89
87) Benzo(b)fluoranthene	15.03	252	211566	15.26	ng	99
88) Benzo(k)fluoranthene	15.03	252	211566	18.16	ng	# 98
89) Benzo(a)pyrene	15.38	252	125468	10.53	ng	97
91) Benzo(a,h,i)perylene	17.27	276	56701	5.98	ng	99

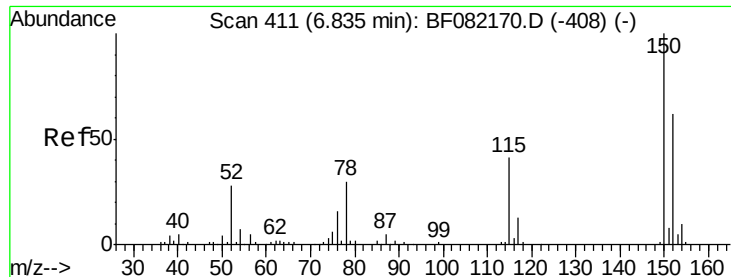
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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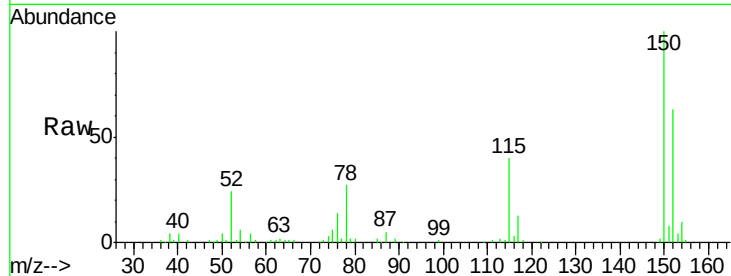


#1

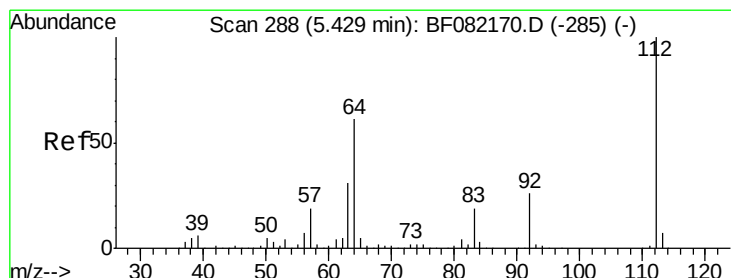
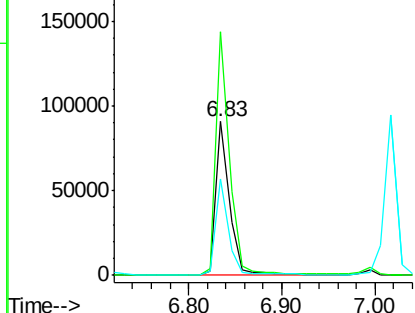
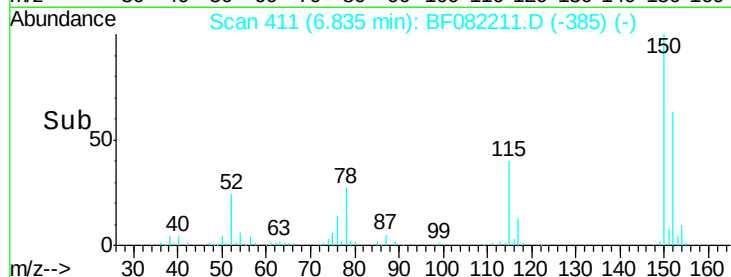
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.83 min Scan# 411
Delta R.T. 0.00 min
Lab File: BF082211.D
Acq: 11 Oct 2015 8:39

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 93198
Ion Ratio Lower Upper
152 100
150 158.5 129.0 193.4
115 62.8 52.1 78.1



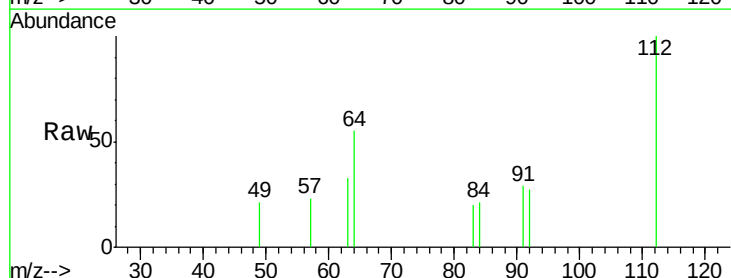
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



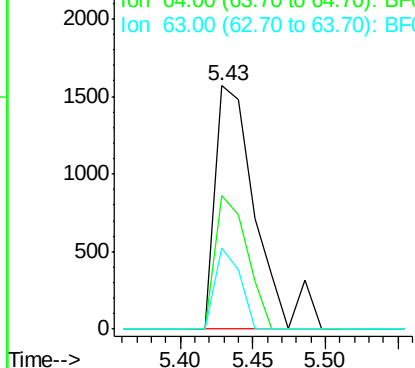
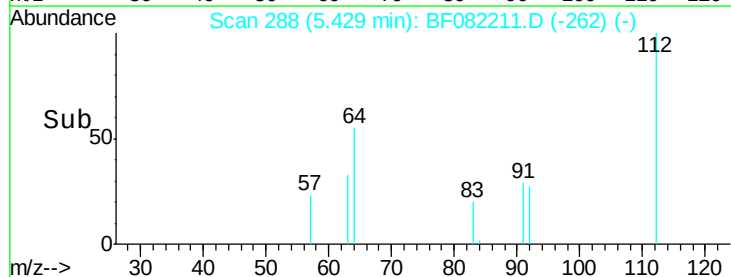
#5

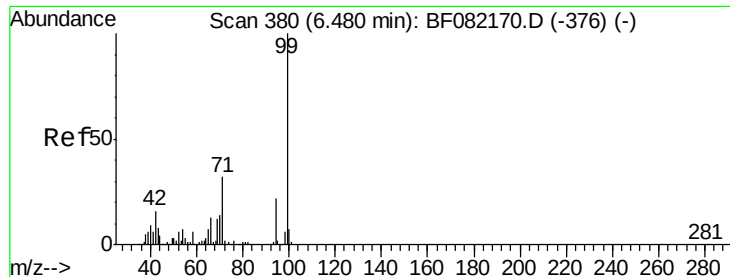
2-Fluorophenol
Concen: 0.66 ng
RT: 5.43 min Scan# 288
Delta R.T. 0.00 min
Lab File: BF082211.D
Acq: 11 Oct 2015 8:39

Tgt Ion:112 Resp: 3040
Ion Ratio Lower Upper
112 100
64 55.0 48.6 73.0
63 33.2 25.1 37.7



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: 0.55 ng

RT: 6.47 min Scan# 379

Delta R.T. -0.01 min

Lab File: BF082211.D

Acq: 11 Oct 2015 8:39

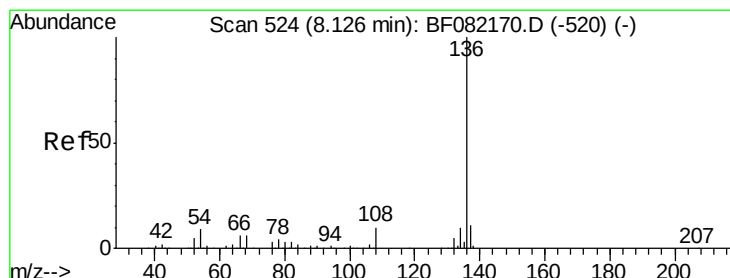
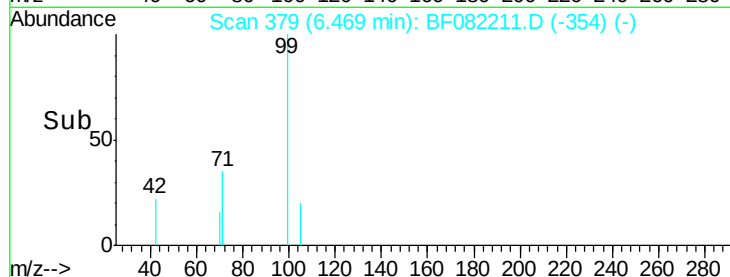
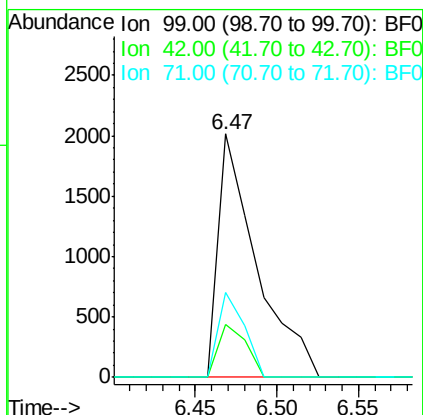
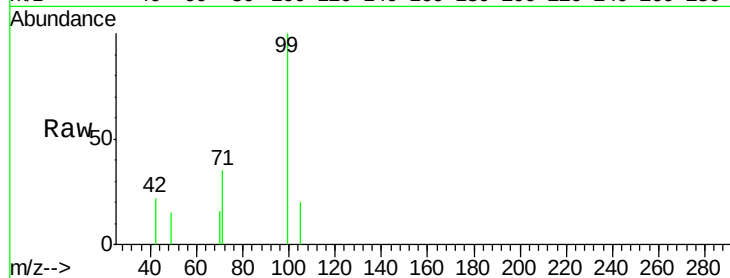
Instrument :

BNA_F

ClientSampleId :

Tot Ion: 99 Resp: 3296

Ion	Ratio	Lower	Upper
99	100		
42	21.6	13.2	19.8#
71	35.0	25.6	38.4



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.13 min Scan# 524

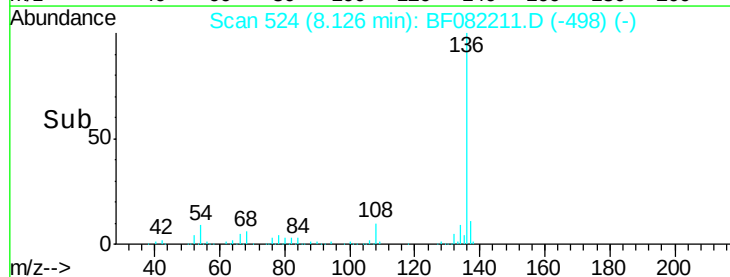
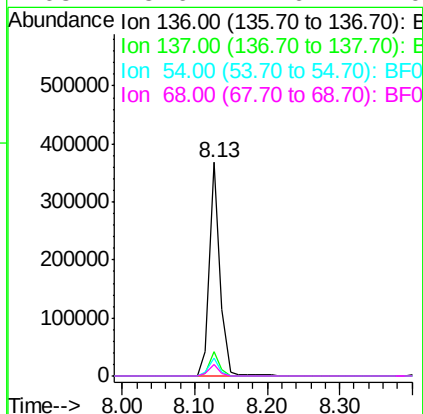
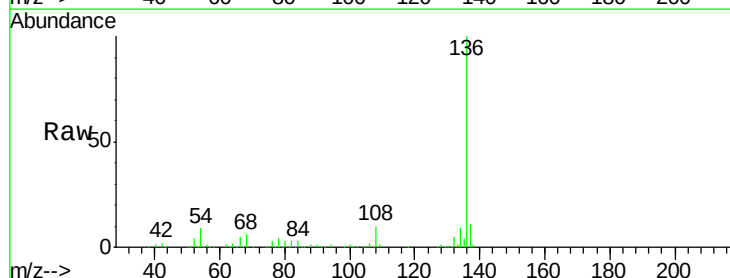
Delta R.T. 0.00 min

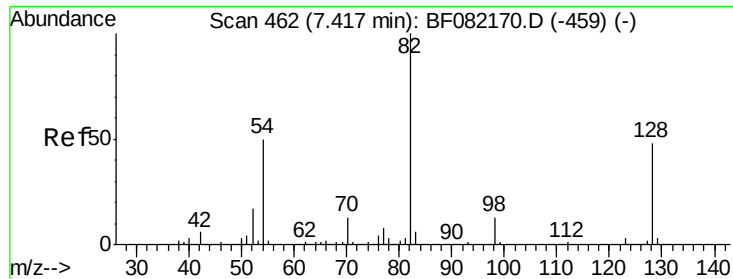
Lab File: BF082211.D

Acq: 11 Oct 2015 8:39

Tgt Ion: 136 Resp: 374535

Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.6
54	8.6	7.5	11.3
68	5.6	4.6	7.0

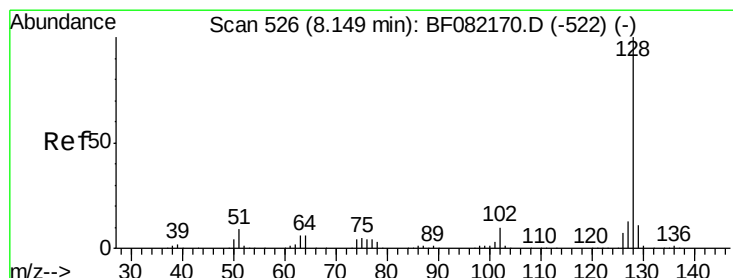
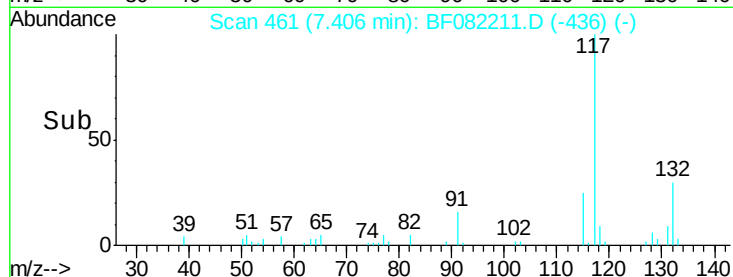
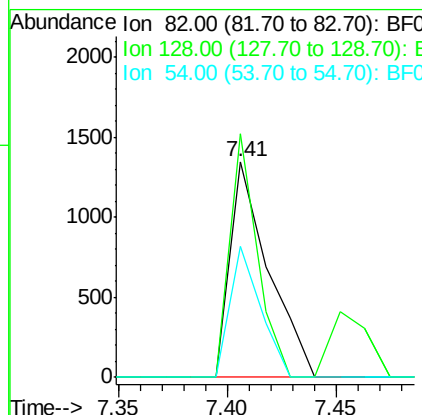
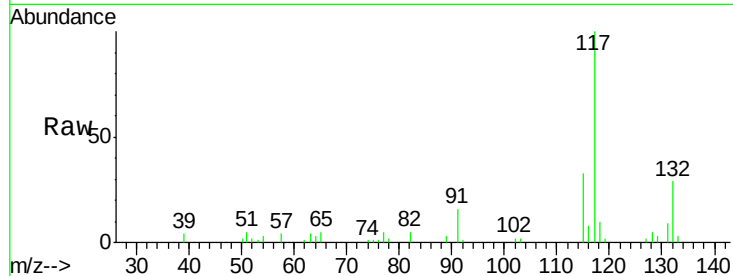




#23
Nitrobenzene-d5
Concen: 0.30 ng
RT: 7.41 min Scan# 461
Delta R.T. -0.01 min
Lab File: BF082211.D
Acq: 11 Oct 2015 8:39

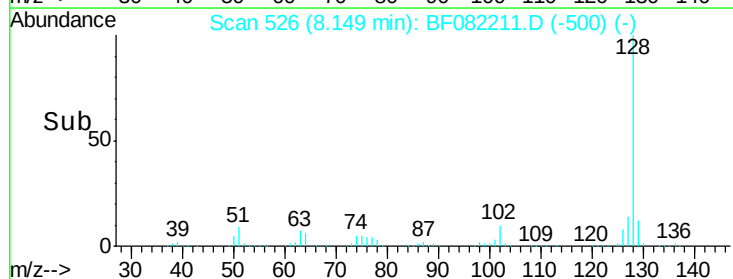
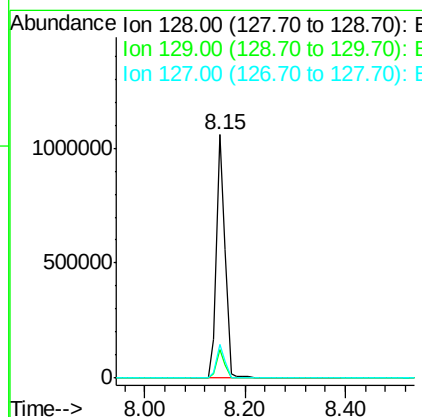
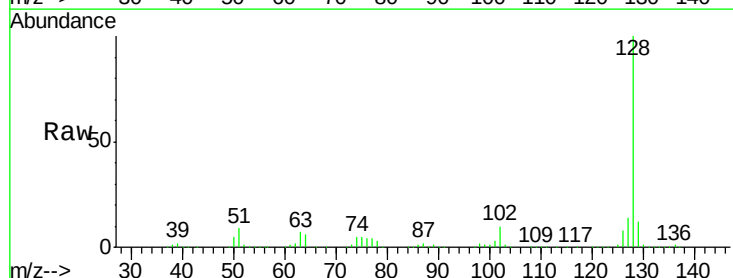
Instrument :
BNA_F
ClientSampleId :

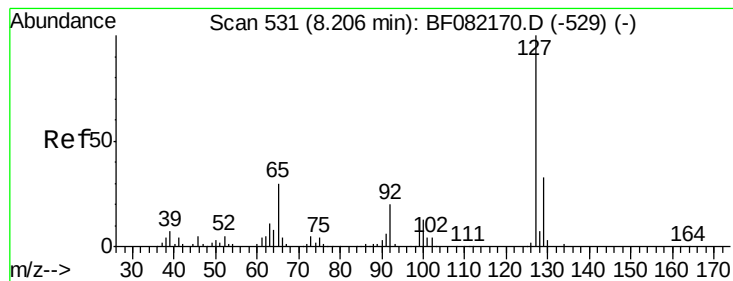
Tot Ion	82	Resp	1653
Ion Ratio	Lower	Upper	
82	100		
128	112.8	38.7	58.1#
54	60.7	40.1	60.1#



#31
Naphthalene
Concen: 78.75 ng
RT: 8.15 min Scan# 526
Delta R.T. 0.00 min
Lab File: BF082211.D
Acq: 11 Oct 2015 8:39

Tgt Ion	128	Resp	1278511
Ion Ratio	Lower	Upper	
128	100		
129	12.0	9.1	13.7
127	13.9	10.7	16.1





#33

4-Chloroaniline

Concen: 25.64 ng

RT: 8.15 min Scan# 526

Delta R.T. -0.06 min

Lab File: BF082211.D

Acq: 11 Oct 2015 8:39

Instrument :

BNA_F

ClientSampleId :

Tot Ion:127 Resp: 172854

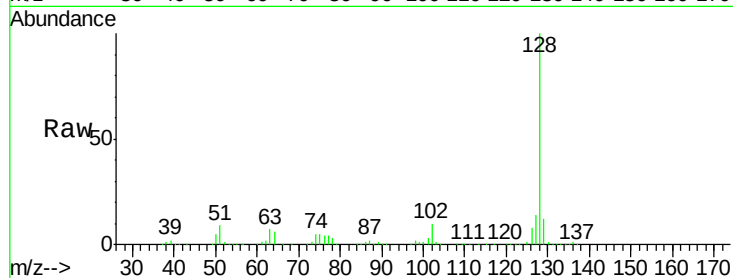
Ion Ratio Lower Upper

127 100

129 86.2 26.3 39.5#

65 0.0 24.4 36.6#

92 0.0 15.7 23.5#

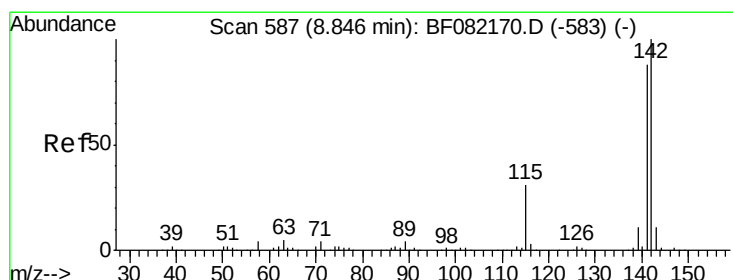
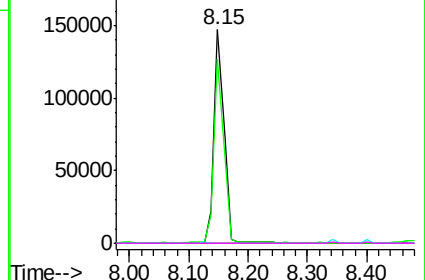
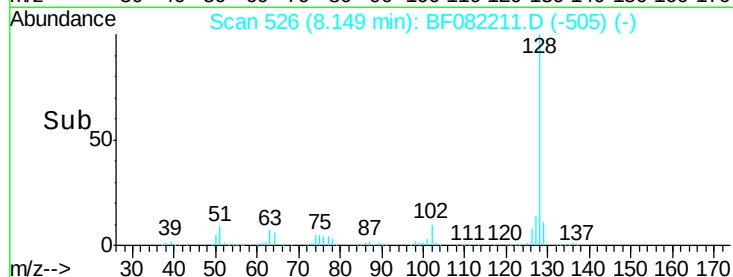


Abundance Ion 127.00 (126.70 to 127.70): E

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: 67.90 ng

RT: 8.95 min Scan# 596

Delta R.T. 0.10 min

Lab File: BF082211.D

Acq: 11 Oct 2015 8:39

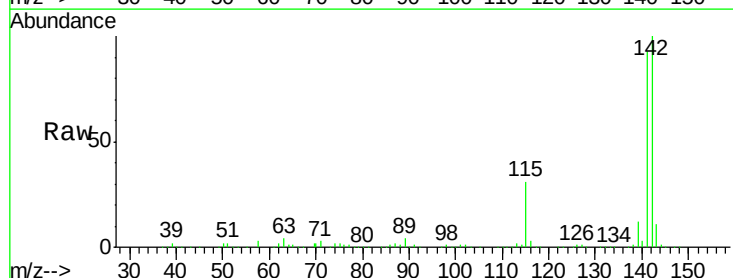
Tgt Ion:142 Resp: 764276

Ion Ratio Lower Upper

142 100

141 93.2 70.4 105.6

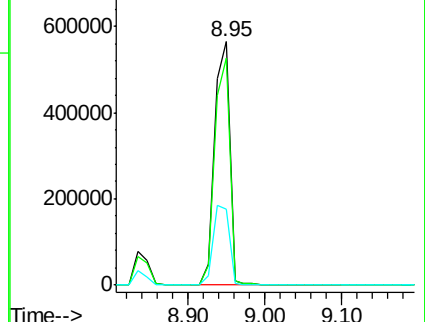
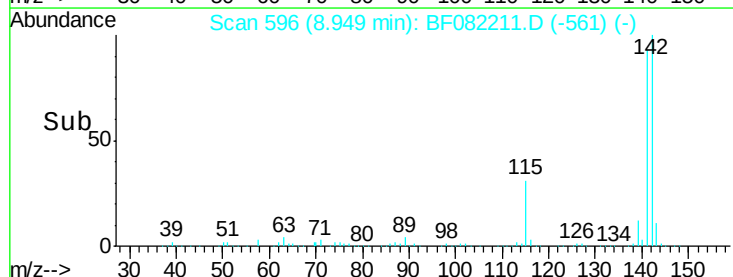
115 31.4 24.6 37.0

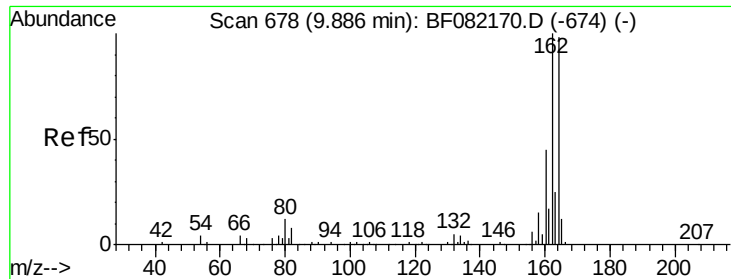


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

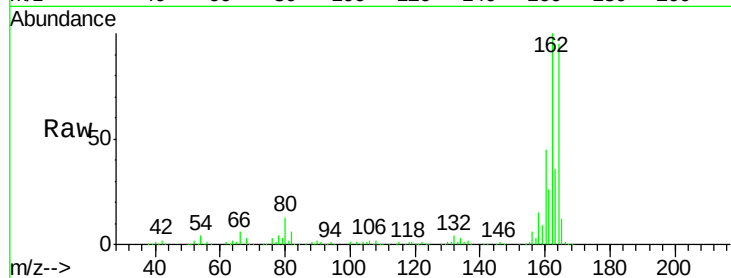




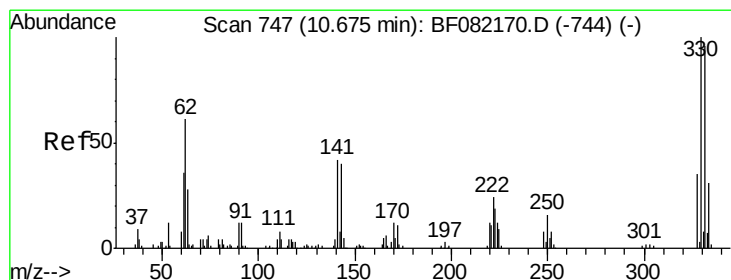
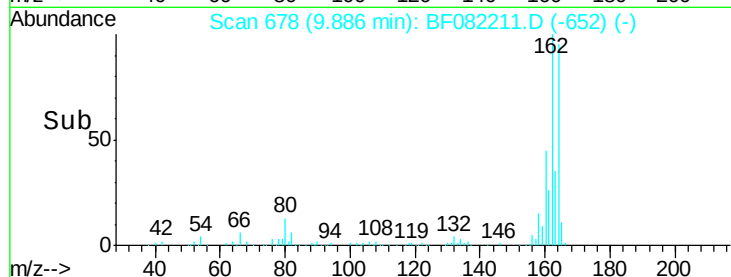
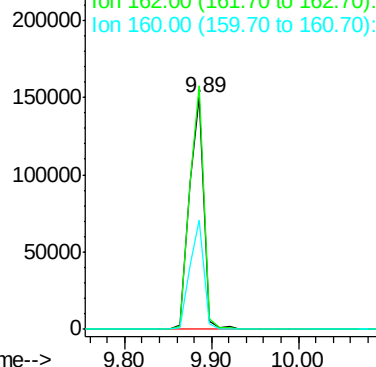
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.89 min Scan# 678
Delta R.T. 0.00 min
Lab File: BF082211.D
Acq: 11 Oct 2015 8:39

Instrument :
BNA_F
ClientSampleId :

Tot Ion:164 Resp: 176705
Ion Ratio Lower Upper
164 100
162 105.1 81.6 122.4
160 47.3 36.4 54.6

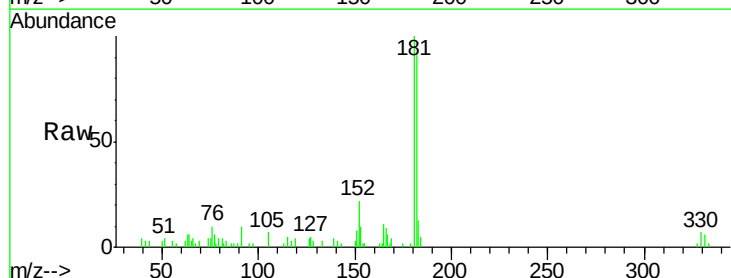


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

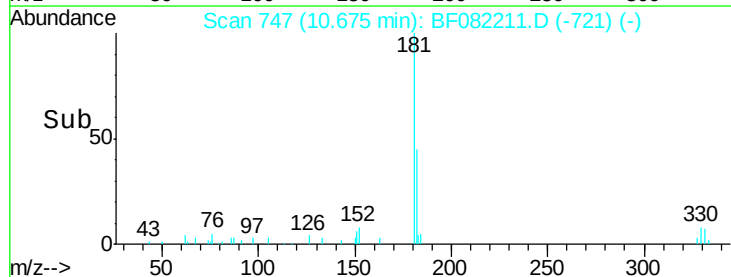
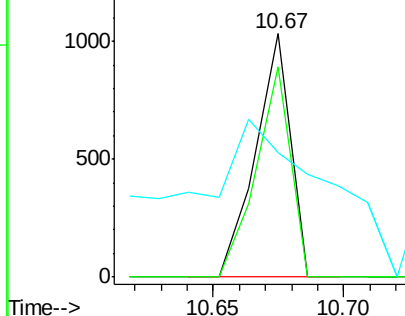


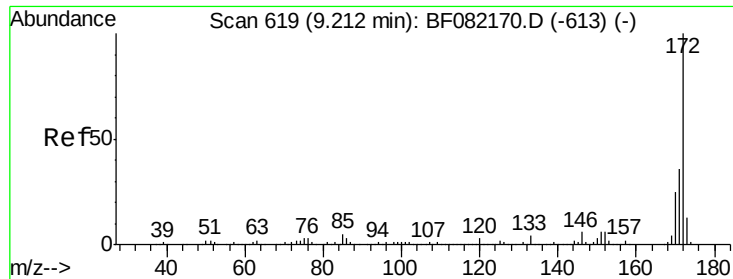
#41
2,4,6-Tribromophenol
Concen: 0.58 ng
RT: 10.67 min Scan# 747
Delta R.T. 0.00 min
Lab File: BF082211.D
Acq: 11 Oct 2015 8:39

Tgt Ion:330 Resp: 966
Ion Ratio Lower Upper
330 100
332 85.3 77.1 115.7
141 215.5 29.8 44.8#



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

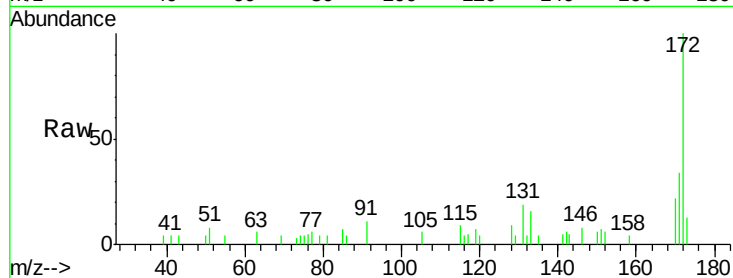




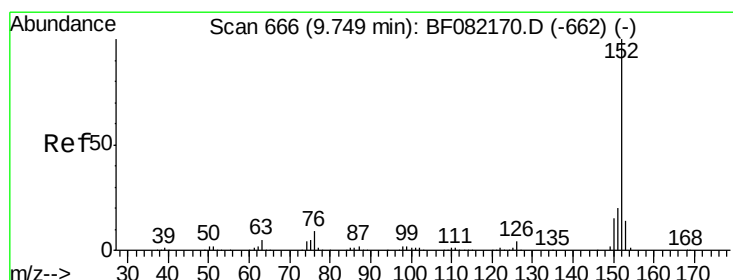
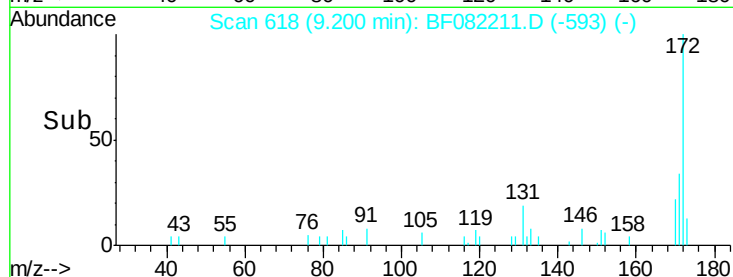
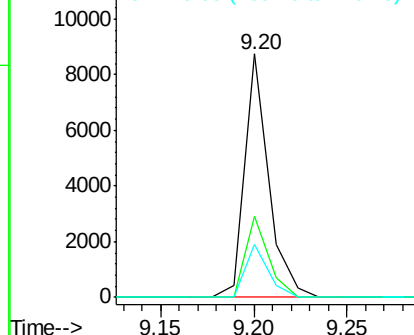
#44
2-Fluorobiphenyl
Concen: 0.73 ng
RT: 9.20 min Scan# 618
Delta R.T. -0.01 min
Lab File: BF082211.D
Acq: 11 Oct 2015 8:39

Instrument :
BNA_F
ClientSampleId :

Tot Ion:172 Resp: 7820
Ion Ratio Lower Upper
172 100
171 33.5 28.6 42.8
170 21.9 19.7 29.5

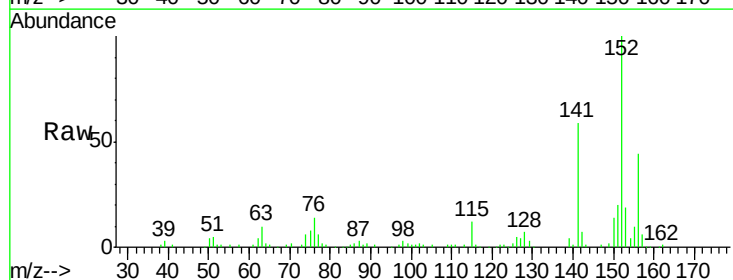


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

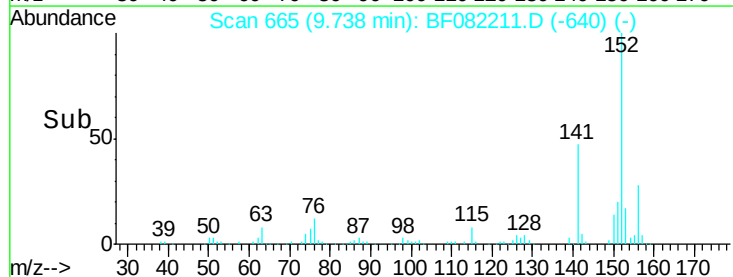
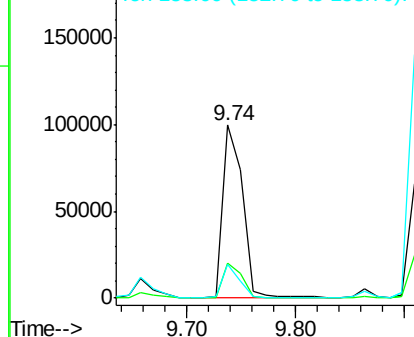


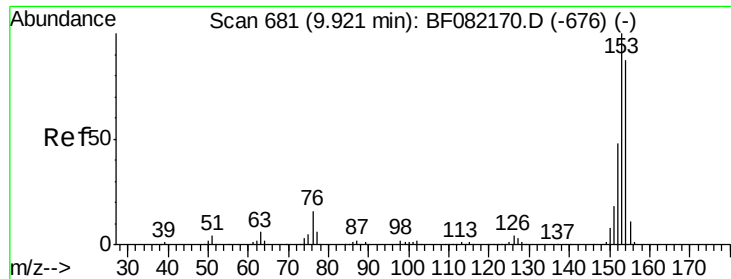
#48
Acenaphthylene
Concen: 7.53 ng
RT: 9.74 min Scan# 665
Delta R.T. -0.01 min
Lab File: BF082211.D
Acq: 11 Oct 2015 8:39

Tgt Ion:152 Resp: 124363
Ion Ratio Lower Upper
152 100
151 19.9 16.4 24.6
153 19.2 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: 15.83 ng

RT: 9.91 min Scan# 680

Delta R.T. -0.01 min

Lab File: BF082211.D

Acq: 11 Oct 2015 8:39

Instrument :

BNA_F

ClientSampleId :

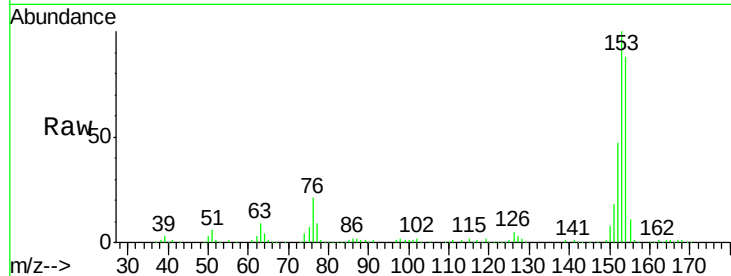
Tot Ion:154 Resp: 157050

Ion Ratio Lower Upper

154 100

153 114.2 91.4 137.2

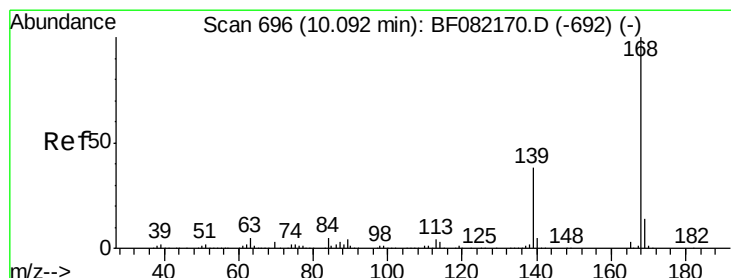
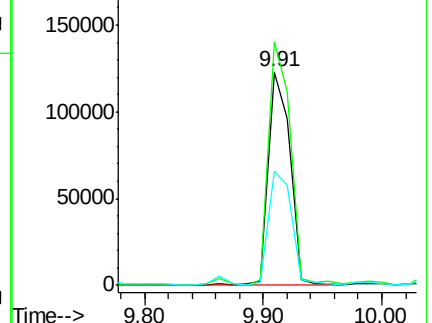
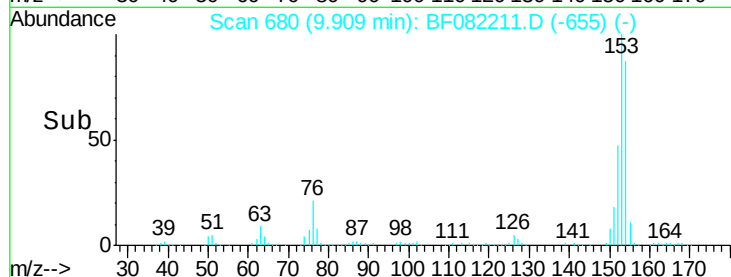
152 53.5 44.3 66.5



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 6.98 ng

RT: 10.08 min Scan# 695

Delta R.T. -0.01 min

Lab File: BF082211.D

Acq: 11 Oct 2015 8:39

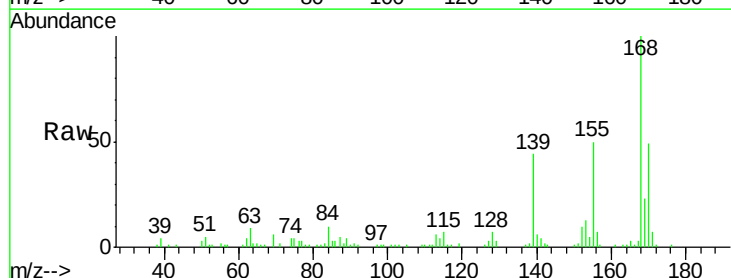
Tgt Ion:168 Resp: 95089

Ion Ratio Lower Upper

168 100

139 44.2 31.0 46.6

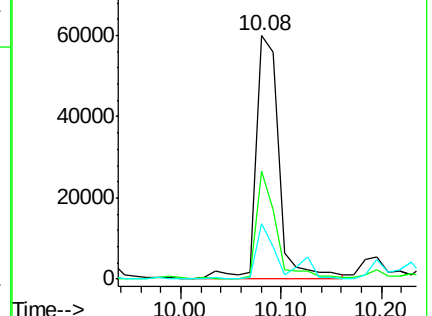
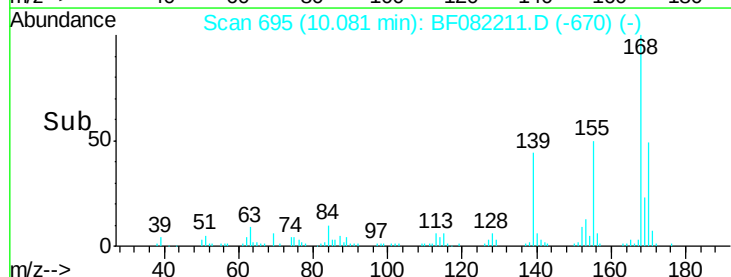
169 22.8 10.9 16.3#

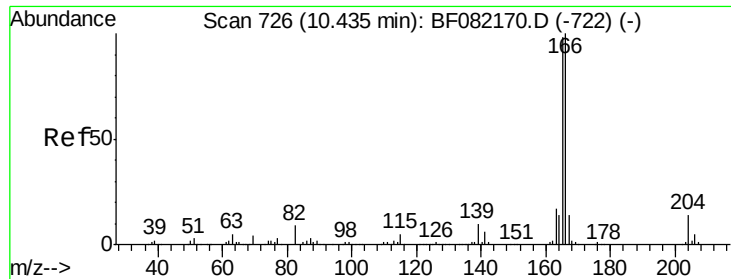


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

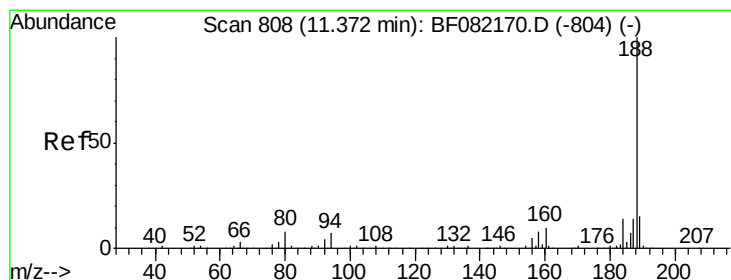
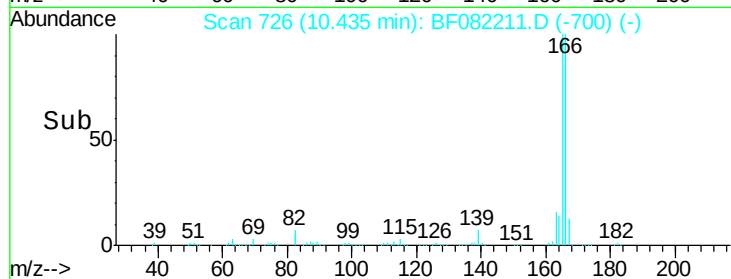
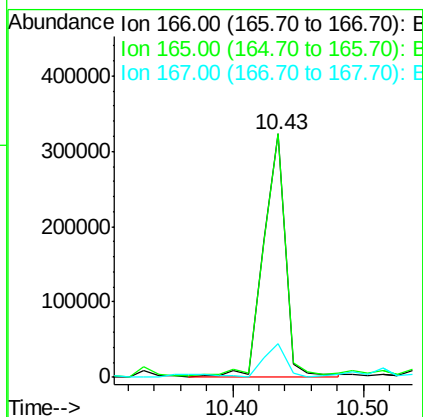
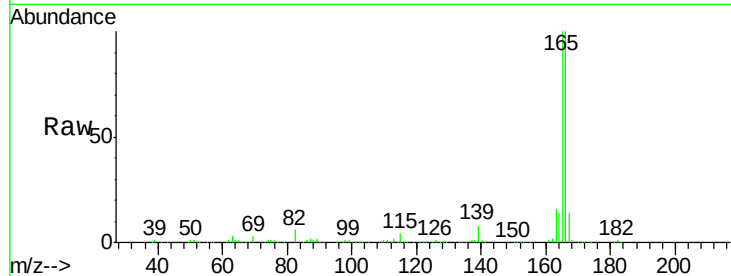




#57
 Fluorene
 Concen: 33.20 ng
 RT: 10.43 min Scan# 726
 Delta R.T. 0.00 min
 Lab File: BF082211.D
 Acq: 11 Oct 2015 8:39

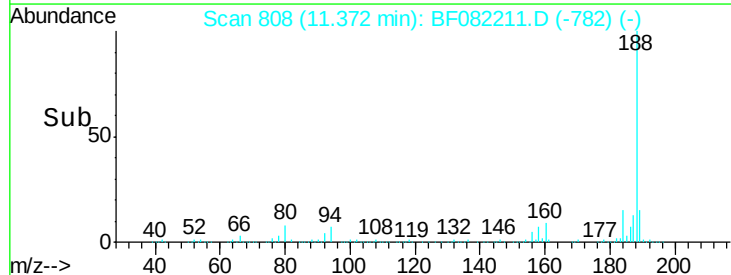
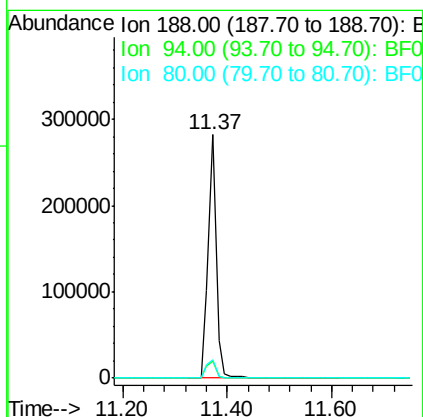
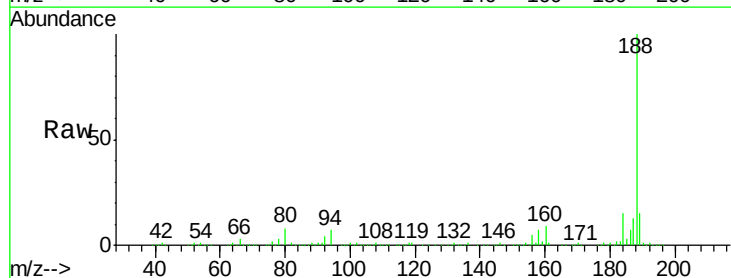
Instrument :
 BNA_F
 ClientSampleId :

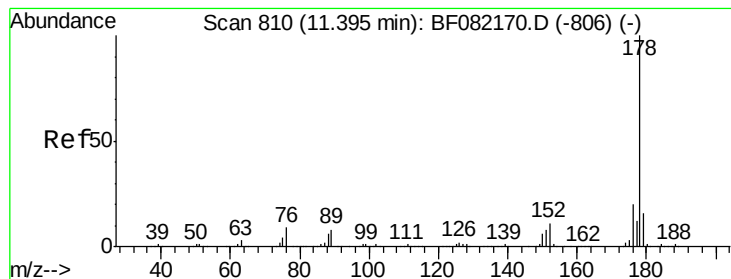
Tot Ion:166 Resp: 371328
 Ion Ratio Lower Upper
 166 100
 165 99.9 78.3 117.5
 167 13.7 10.8 16.2



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.37 min Scan# 808
 Delta R.T. 0.00 min
 Lab File: BF082211.D
 Acq: 11 Oct 2015 8:39

Tgt Ion:188 Resp: 307350
 Ion Ratio Lower Upper
 188 100
 94 7.2 5.8 8.6
 80 7.5 6.4 9.6





#70

Phenanthrene

Concen: 81.70 ng

RT: 11.40 min Scan# 810

Delta R.T. 0.00 min

Lab File: BF082211.D

Acq: 11 Oct 2015 8:39

Instrument :

BNA_F

ClientSampleId :

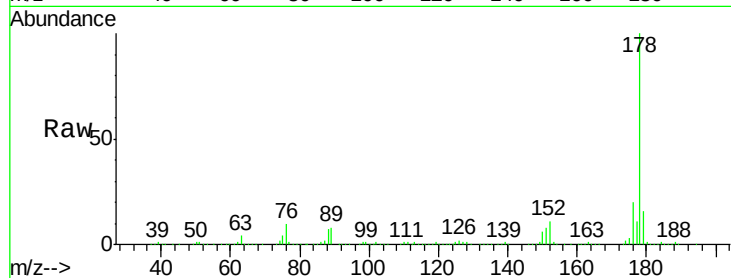
Tot Ion:178 Resp: 1230859

Ion Ratio Lower Upper

178 100

176 20.2 16.0 24.0

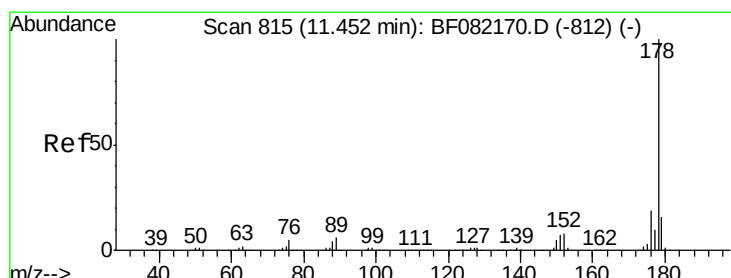
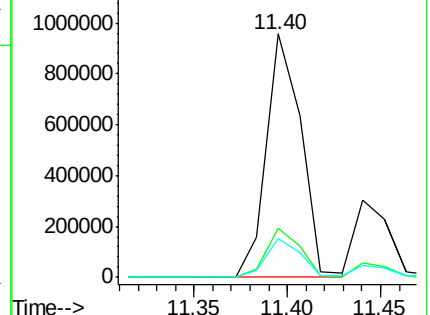
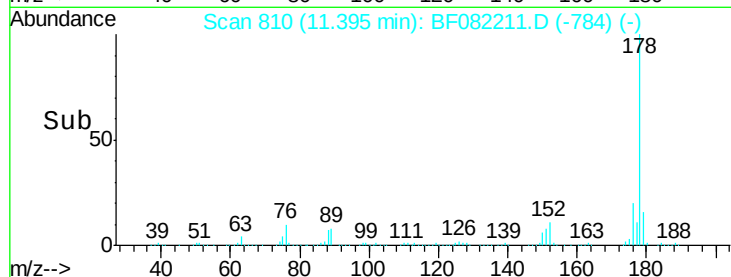
179 16.2 12.6 19.0



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: 27.27 ng

RT: 11.44 min Scan# 814

Delta R.T. -0.01 min

Lab File: BF082211.D

Acq: 11 Oct 2015 8:39

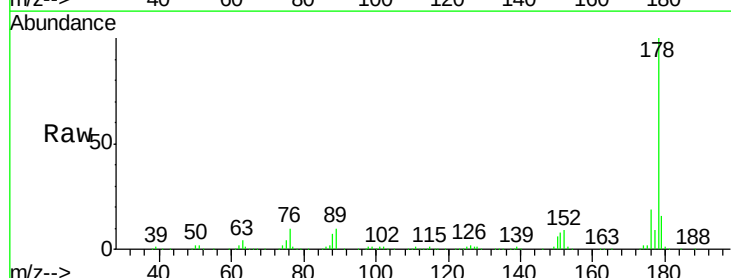
Tgt Ion:178 Resp: 423276

Ion Ratio Lower Upper

178 100

176 18.6 15.4 23.0

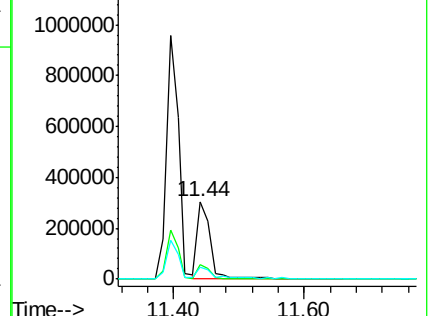
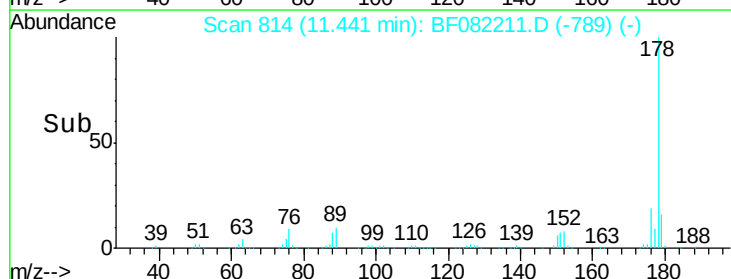
179 16.0 12.5 18.7

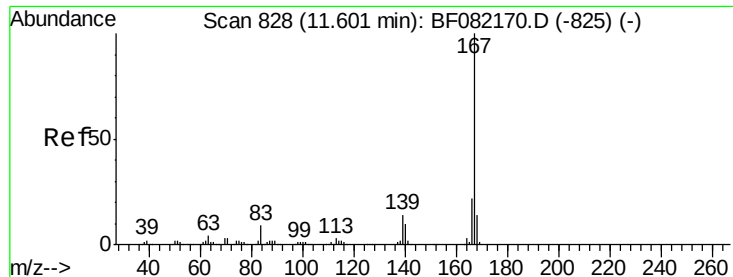


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 2.70 ng

RT: 11.60 min Scan# 828

Delta R.T. 0.00 min

Lab File: BF082211.D

Acq: 11 Oct 2015 8:39

Instrument :

BNA_F

ClientSampleId :

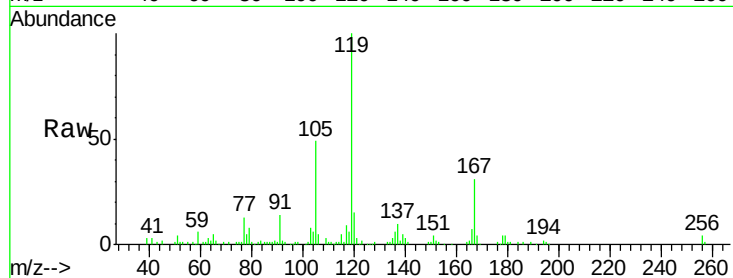
Tot Ion:167 Resp: 38263

Ion Ratio Lower Upper

167 100

166 23.0 17.3 25.9

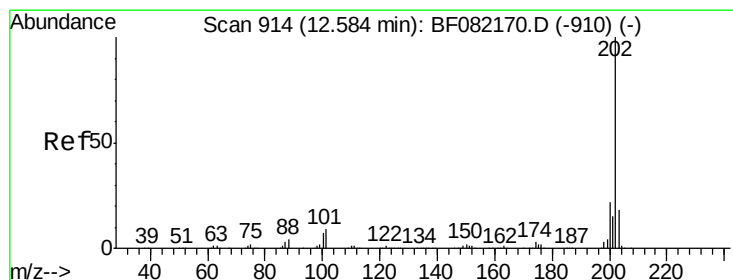
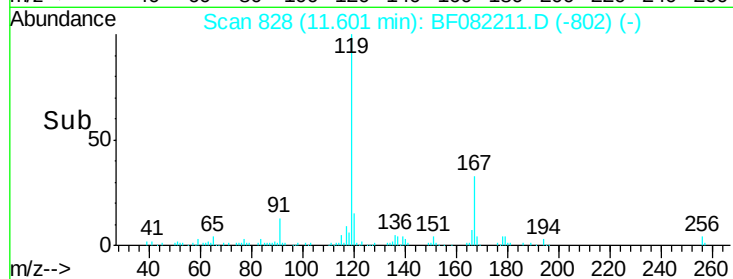
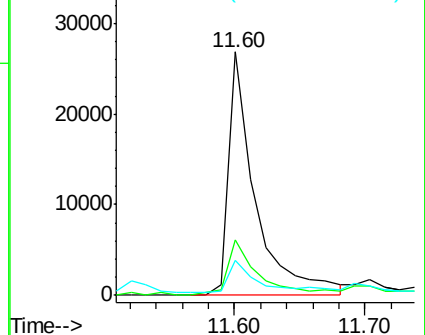
139 14.6 11.2 16.8



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 36.02 ng

RT: 12.58 min Scan# 914

Delta R.T. 0.00 min

Lab File: BF082211.D

Acq: 11 Oct 2015 8:39

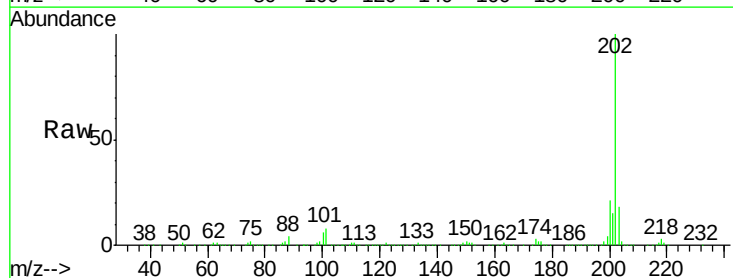
Tgt Ion:202 Resp: 582884

Ion Ratio Lower Upper

202 100

101 8.5 0.0 29.3

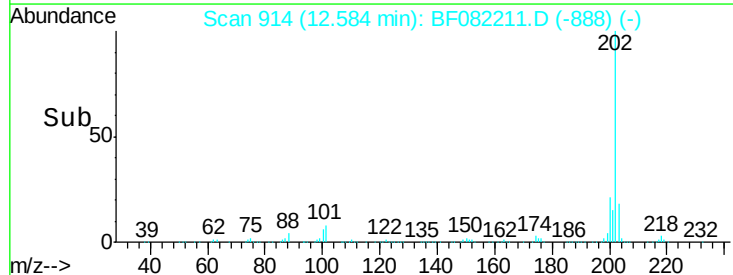
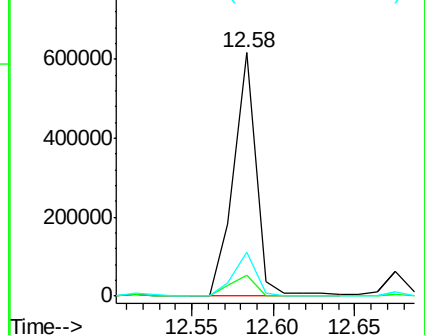
203 17.9 0.0 37.8

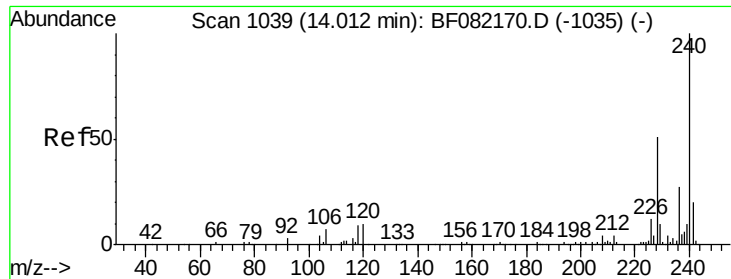


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

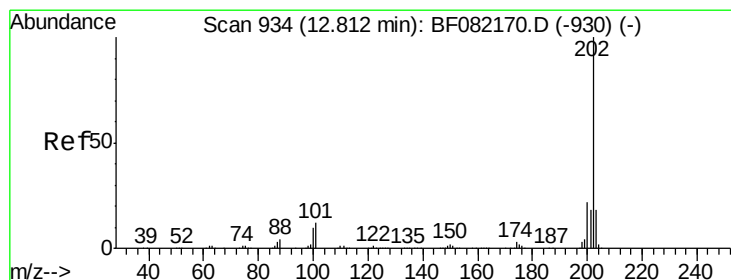
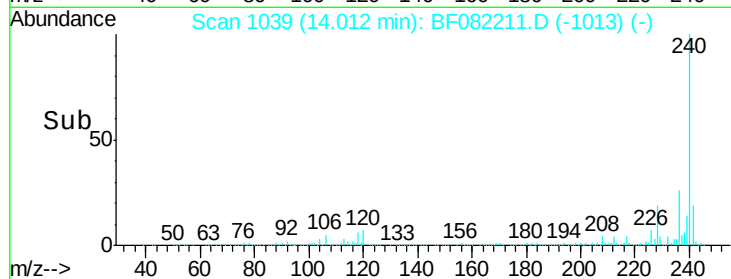
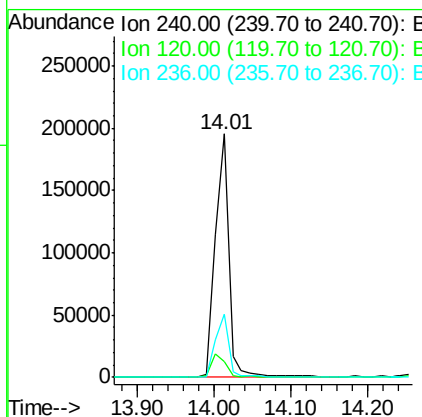
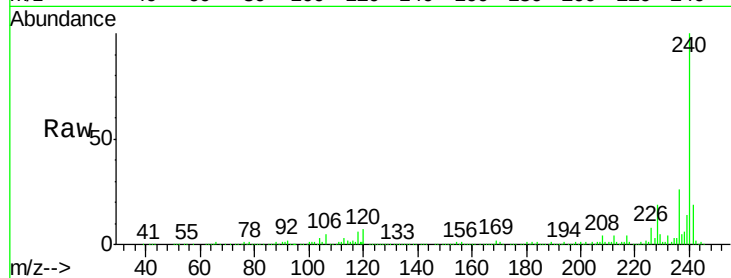




#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 14.01 min Scan# 1039
 Delta R.T. 0.00 min
 Lab File: BF082211.D
 Acq: 11 Oct 2015 8:39

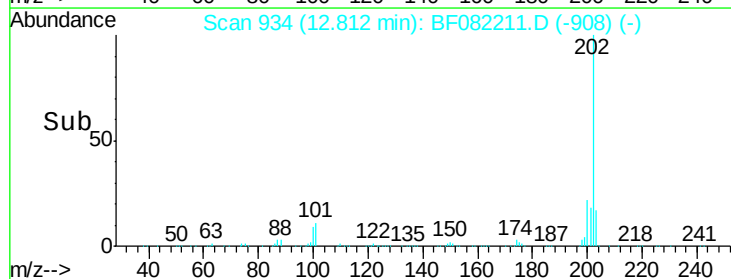
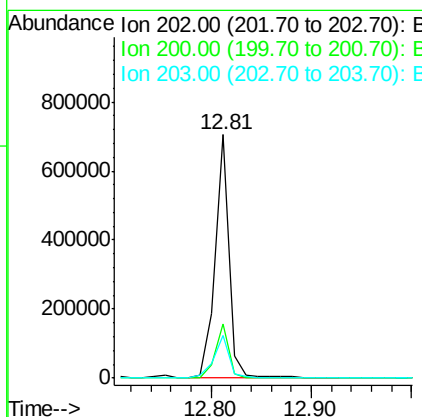
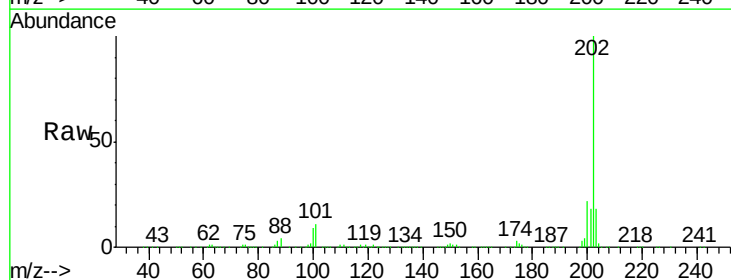
Instrument :
 BNA_F
 ClientSampled :

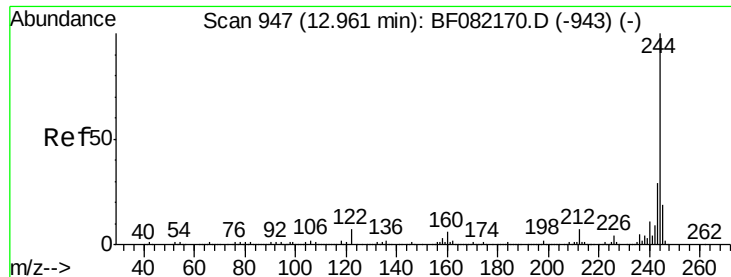
Tot Ion:240 Resp: 240022
 Ion Ratio Lower Upper
 240 100
 120 6.7 8.1 12.1#
 236 25.9 21.3 31.9



#77
 Pyrene
 Concen: 47.08 ng
 RT: 12.81 min Scan# 934
 Delta R.T. 0.00 min
 Lab File: BF082211.D
 Acq: 11 Oct 2015 8:39

Tgt Ion:202 Resp: 670570
 Ion Ratio Lower Upper
 202 100
 200 22.0 17.9 26.9
 203 17.8 14.5 21.7

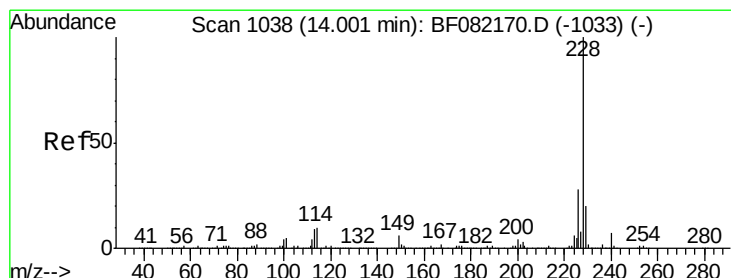
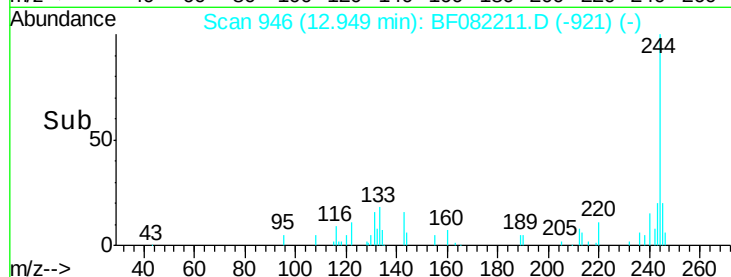
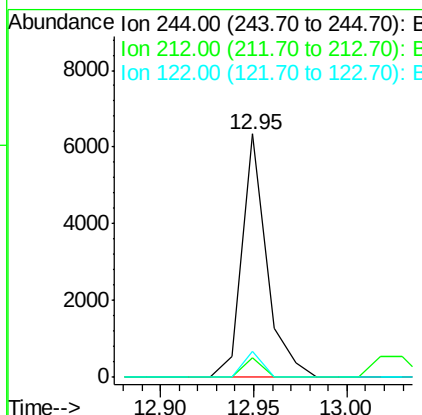
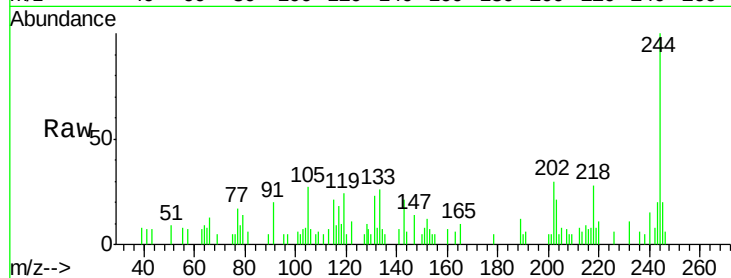




#78
 Terphenyl-d14
 Concen: 0.65 ng
 RT: 12.95 min Scan# 946
 Delta R.T. -0.01 min
 Lab File: BF082211.D
 Acq: 11 Oct 2015 8:39

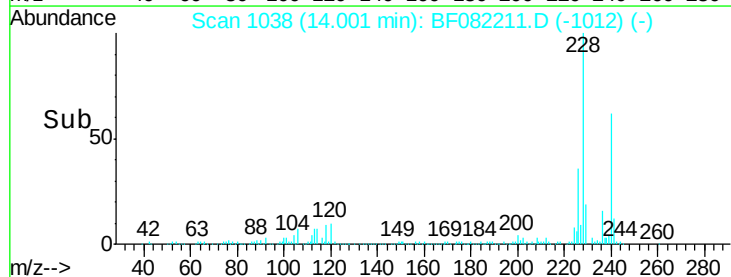
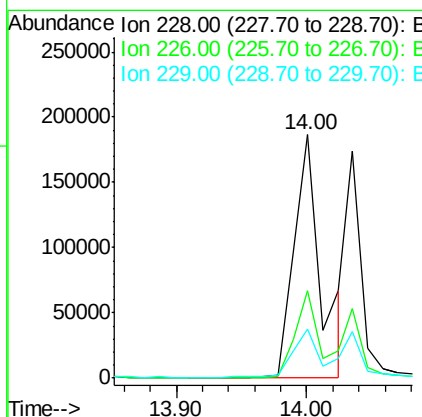
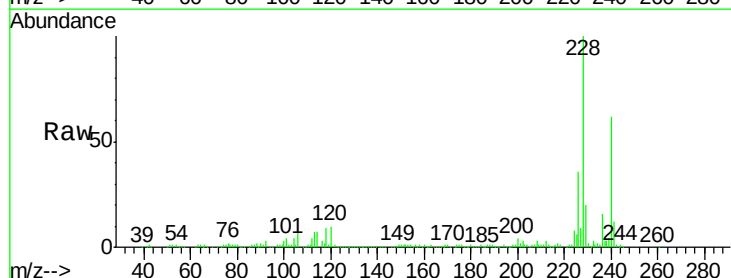
Instrument :
 BNA_F
 ClientSampleId :

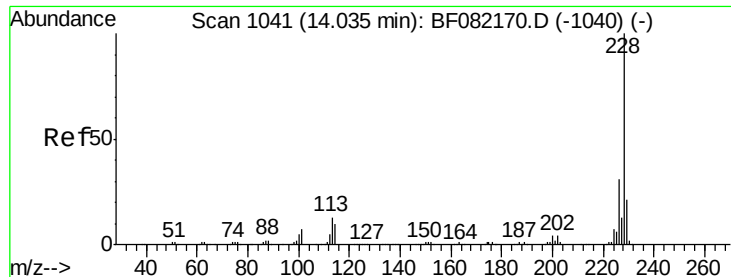
Tot Ion:244 Resp: 5867
 Ion Ratio Lower Upper
 244 100
 212 8.3 5.8 8.6
 122 10.6 5.9 8.9#



#80
 Benzo(a)anthracene
 Concen: 21.40 ng
 RT: 14.00 min Scan# 1038
 Delta R.T. 0.00 min
 Lab File: BF082211.D
 Acq: 11 Oct 2015 8:39

Tgt Ion:228 Resp: 267195
 Ion Ratio Lower Upper
 228 100
 226 35.9 22.3 33.5#
 229 20.0 16.2 24.2

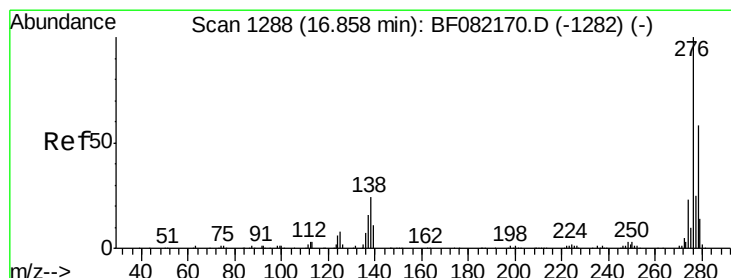
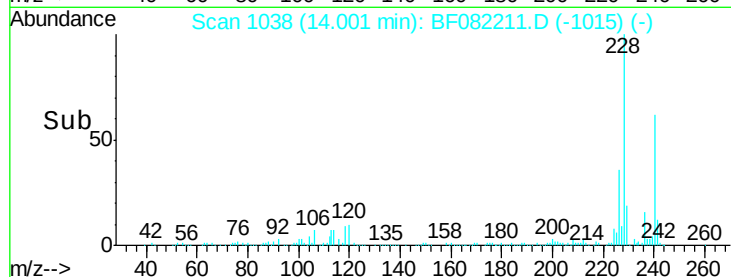
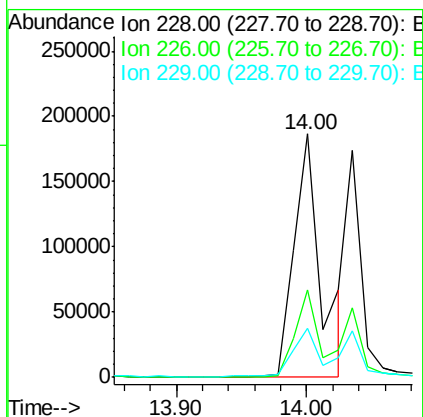
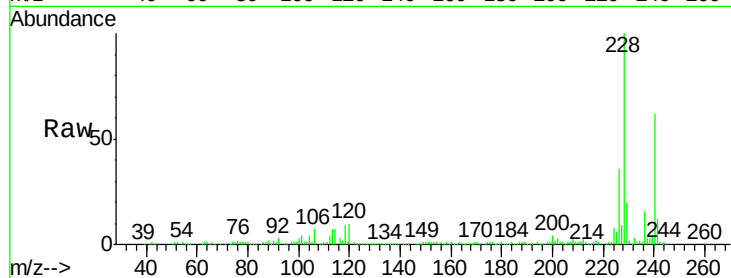




#82
Chrysene
Concen: 20.31 ng
RT: 14.00 min Scan# 1038
Delta R.T. -0.03 min
Lab File: BF082211.D
Acq: 11 Oct 2015 8:39

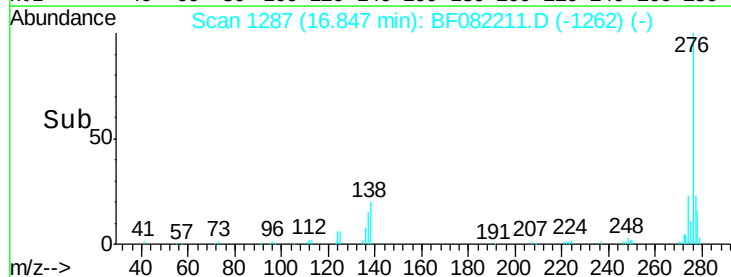
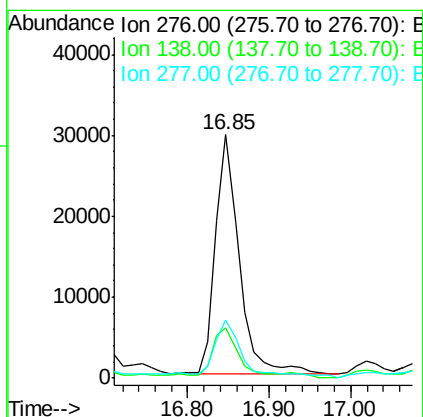
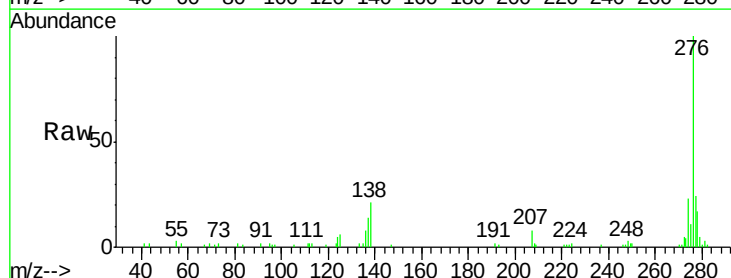
Instrument :
BNA_F
ClientSampleId :

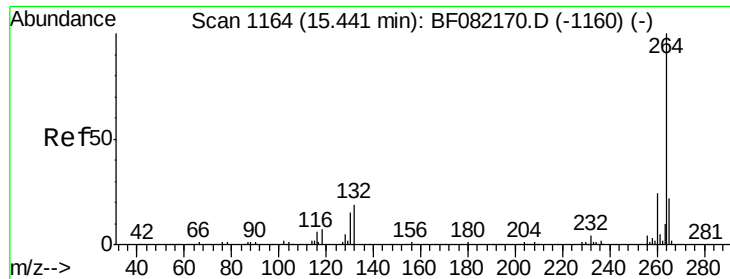
Tot Ion:228 Resp: 267195
Ion Ratio Lower Upper
228 100
226 35.9 24.4 36.6
229 20.0 16.3 24.5



#85
Indeno(1,2,3-cd)pyrene
Concen: 5.74 ng
RT: 16.85 min Scan# 1287
Delta R.T. -0.01 min
Lab File: BF082211.D
Acq: 11 Oct 2015 8:39

Tgt Ion:276 Resp: 60039
Ion Ratio Lower Upper
276 100
138 19.6 19.7 29.5#
277 30.7 20.1 30.1#



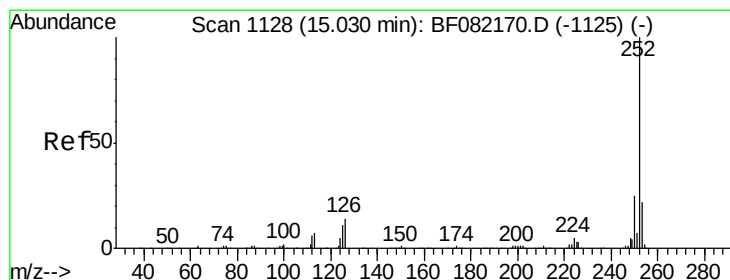
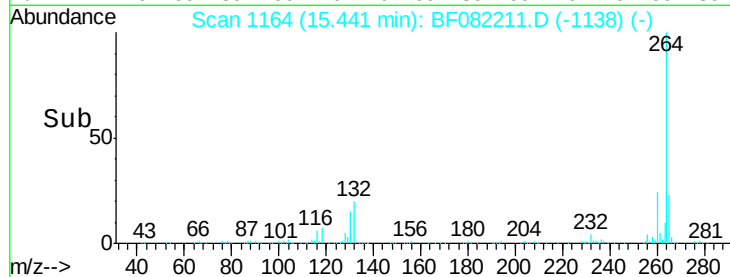
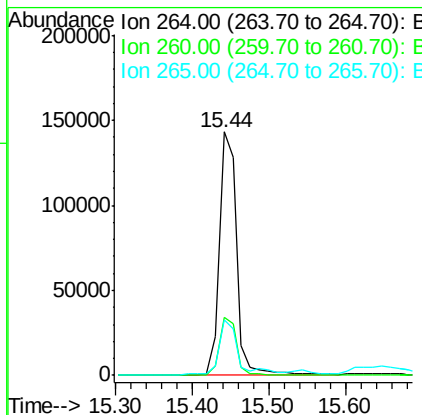
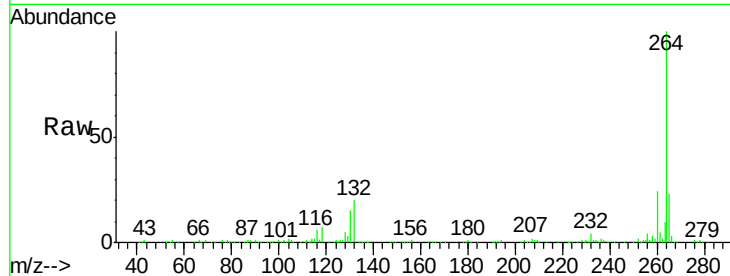


#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.44 min Scan# 1164
Delta R.T. 0.00 min
Lab File: BF082211.D
Acq: 11 Oct 2015 8:39

Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 227871

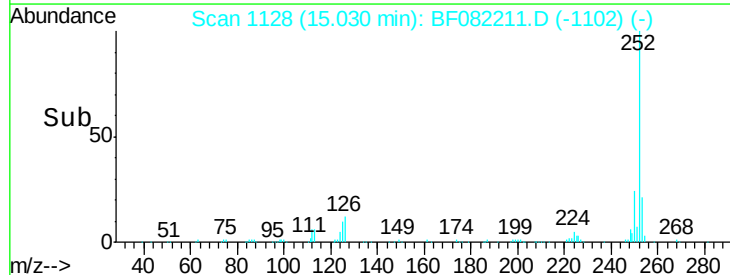
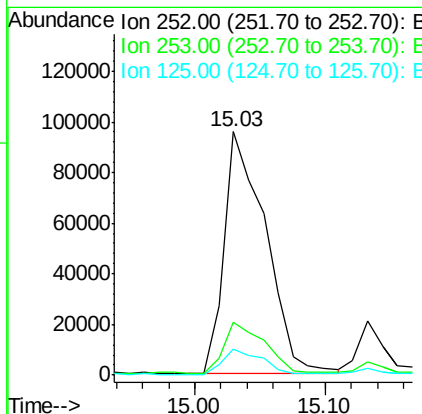
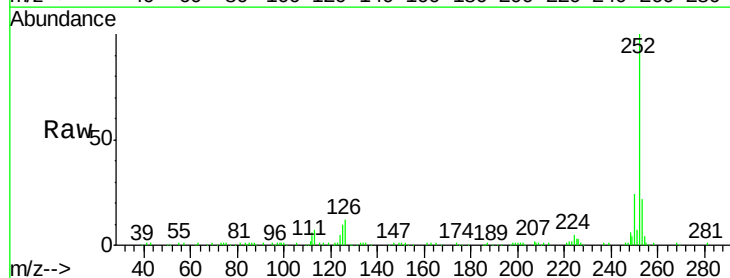
Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.0	28.6
265	22.7	17.3	25.9

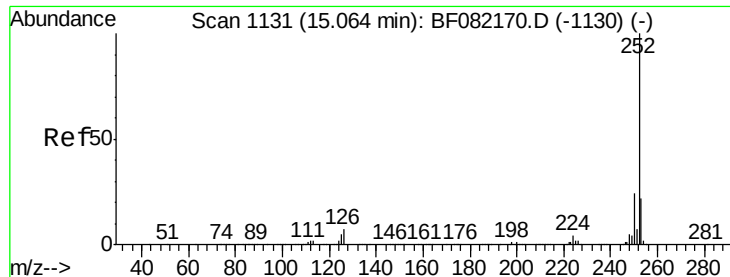


#87
Benzo(b)fluoranthene
Concen: 15.26 ng
RT: 15.03 min Scan# 1128
Delta R.T. 0.00 min
Lab File: BF082211.D
Acq: 11 Oct 2015 8:39

Tgt Ion:252 Resp: 211566

Ion	Ratio	Lower	Upper
252	100		
253	21.7	18.0	27.0
125	10.5	8.6	12.8





#88

Benzo(k)fluoranthene

Concen: 18.16 ng

RT: 15.03 min Scan# 1128

Delta R.T. -0.03 min

Lab File: BF082211.D

Acq: 11 Oct 2015 8:39

Instrument :

BNA_F

ClientSampleId :

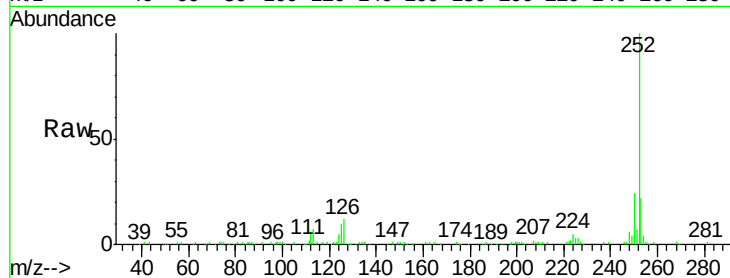
Tot Ion:252 Resp: 211566

Ion Ratio Lower Upper

252 100

253 21.7 17.8 26.6

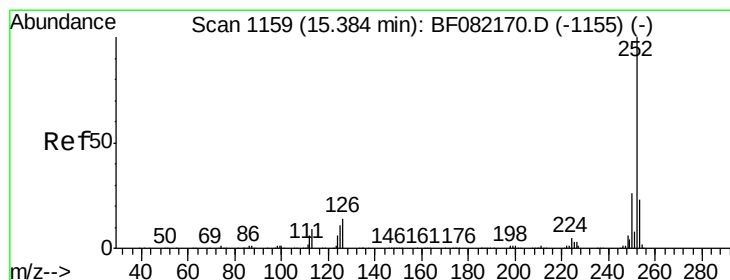
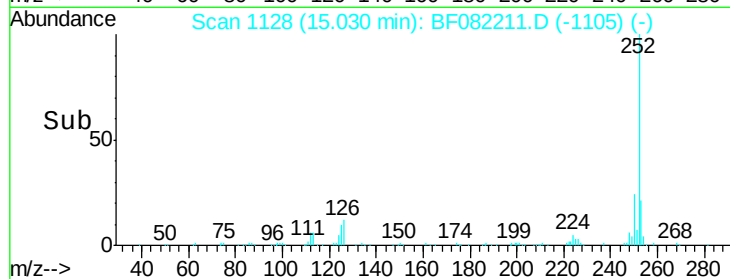
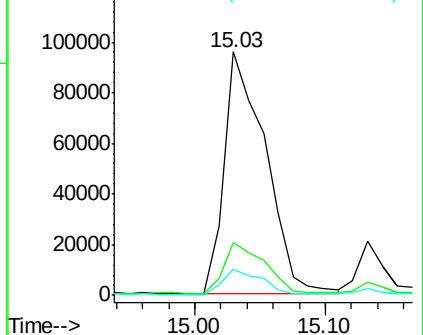
125 10.5 6.7 10.1#



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: 10.53 ng

RT: 15.38 min Scan# 1159

Delta R.T. 0.00 min

Lab File: BF082211.D

Acq: 11 Oct 2015 8:39

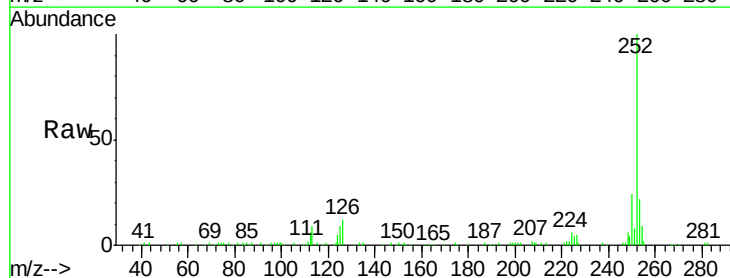
Tgt Ion:252 Resp: 125468

Ion Ratio Lower Upper

252 100

253 22.0 18.2 27.2

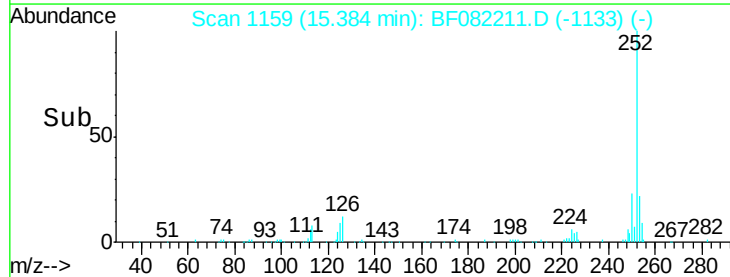
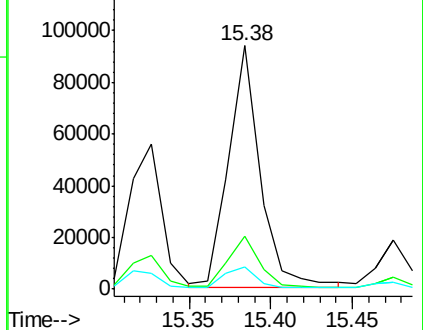
125 9.0 8.9 13.3

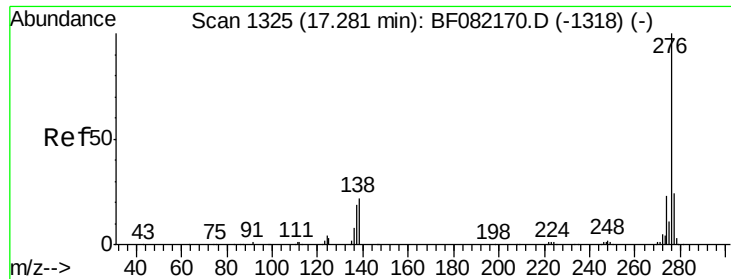


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

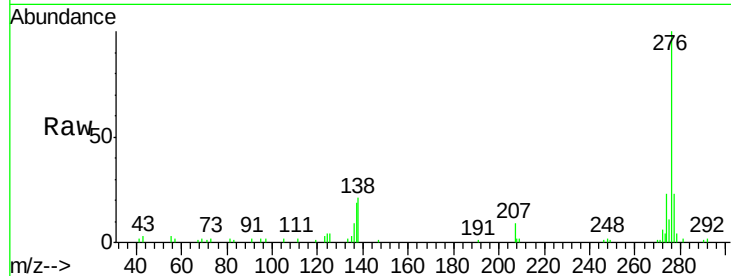




#91
 Benzo(a,h,i)perylene
 Concen: 5.98 ng
 RT: 17.27 min Scan# 1324
 Delta R.T. -0.01 min
 Lab File: BF082211.D
 Acq: 11 Oct 2015 8:39

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.4	18.8	28.2
138	21.0	17.4	26.2



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

