

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101015\
 Data File : BF082208.D
 Acq On : 11 Oct 2015 7:10
 Operator : UM/IZ
 Sample : G3979-20
 Misc :
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Oct 12 03:06:20 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	84919	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	326383	20.00	ng	0.00
38) Acenaphthene-d10	9.89	164	139713	20.00	ng	0.00
63) Phenanthrene-d10	11.37	188	226482	20.00	ng	0.00
75) Chrysene-d12	14.01	240	196152	20.00	ng	0.00
86) Perylene-d12	15.44	264	182987	20.00	ng	0.00

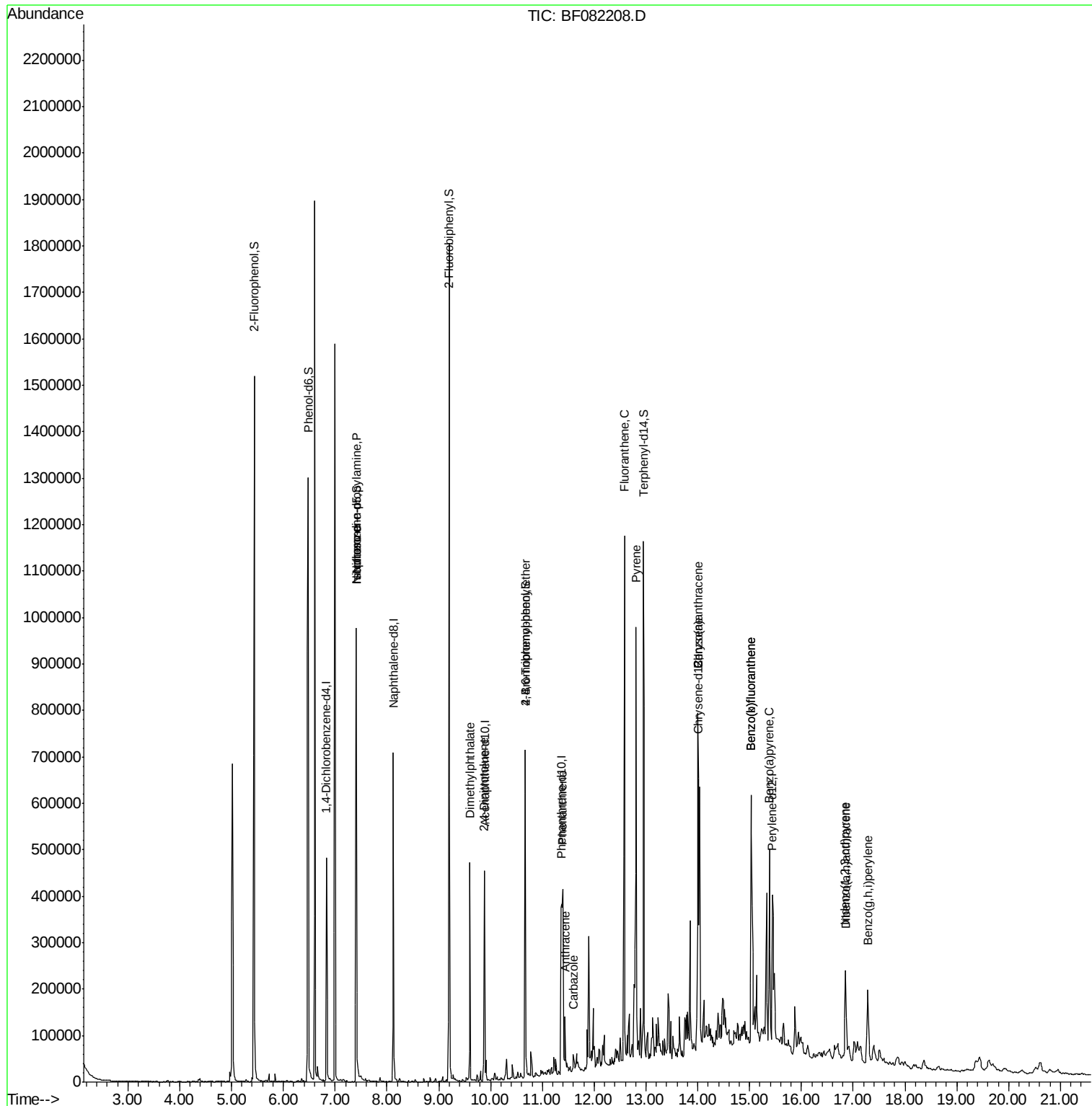
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.44	112	483312	114.87	ng	0.01
7) Phenol-d6	6.48	99	625562	114.25	ng	0.00
23) Nitrobenzene-d5	7.41	82	357499	73.56	ng	-0.01
41) 2,4,6-Tribromophenol	10.67	330	128485	98.06	ng	0.00
44) 2-Fluorobiphenyl	9.20	172	645053	76.57	ng	-0.01
78) Terphenyl-d14	12.95	244	477603	64.52	ng	-0.01

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.41	70	46514	12.10	ng	# 80
25) Isophorone	7.41	82	306917	31.29	ng	# 66
49) Dimethylphthalate	9.60	163	189172	19.23	ng	98
56) 2,4-Dinitrotoluene	9.87	165	17659	6.81	ng	# 21
66) 4-Bromophenyl-phenylether	10.67	248	8459	3.73	ng	# 1
70) Phenanthrene	11.39	178	228118	20.55	ng	97
71) Anthracene	11.44	178	61141	5.34	ng	98
72) Carbazole	11.60	167	23185	2.22	ng	97
74) Fluoranthene	12.58	202	521983	43.78	ng	99
77) Pyrene	12.81	202	412846	35.47	ng	99
80) Benzo(a)anthracene	14.00	228	232090	22.74	ng	96
82) Chrysene	14.00	228	231981	21.57	ng	99
85) Indeno(1,2,3-cd)pyrene	16.85	276	145947	17.08	ng	98
87) Benzo(b)fluoranthene	15.03	252	454735	40.85	ng	99
88) Benzo(k)fluoranthene	15.03	252	454735	48.60	ng	# 97
89) Benzo(a)pyrene	15.38	252	215529	22.53	ng	98
90) Dibenzo(a,h)anthracene	16.86	278	26216	3.34	ng	# 77
91) Benzo(g,h,i)perylene	17.28	276	135423	17.78	ng	98

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

```
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ALS Vial  : 41    Sample Multiplier: 1
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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: BF082208.D

Acq: 11 Oct 2015 7:10

Instrument :

BNA_F

ClientSampleId :

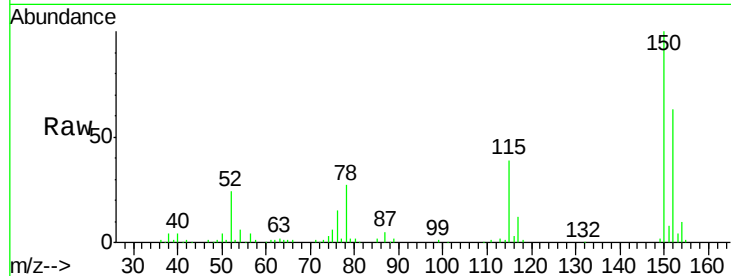
Tot Ion:152 Resp: 84919

Ion Ratio Lower Upper

152 100

150 159.3 129.0 193.4

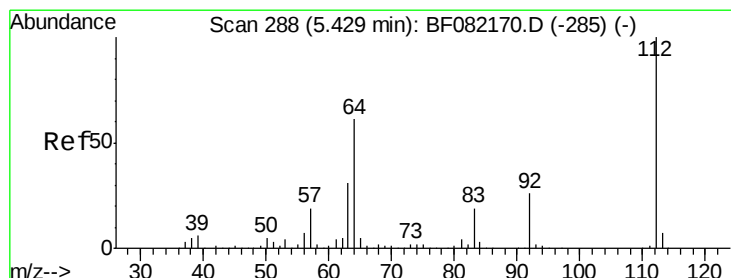
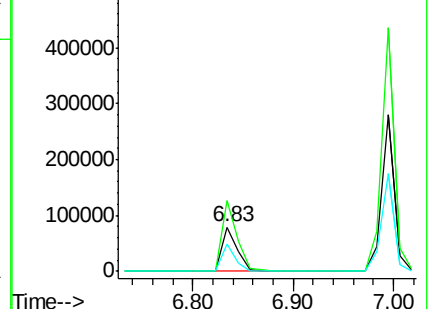
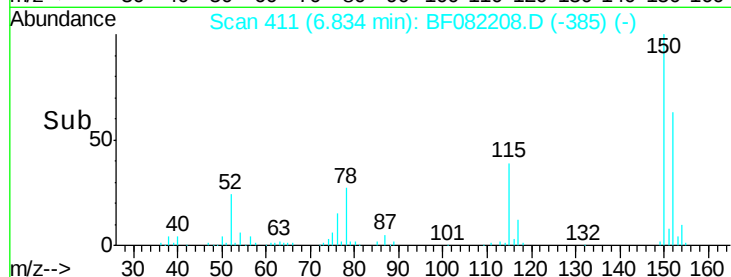
115 62.3 52.1 78.1



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: 114.87 ng

RT: 5.44 min Scan# 289

Delta R.T. 0.01 min

Lab File: BF082208.D

Acq: 11 Oct 2015 7:10

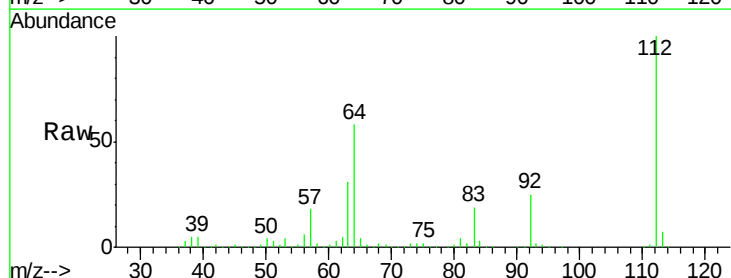
Tgt Ion:112 Resp: 483312

Ion Ratio Lower Upper

112 100

64 58.2 48.6 73.0

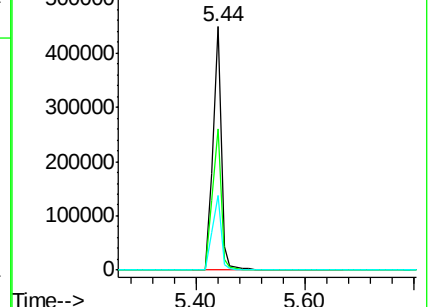
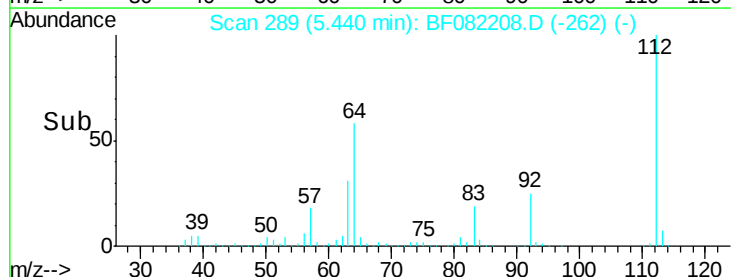
63 30.7 25.1 37.7

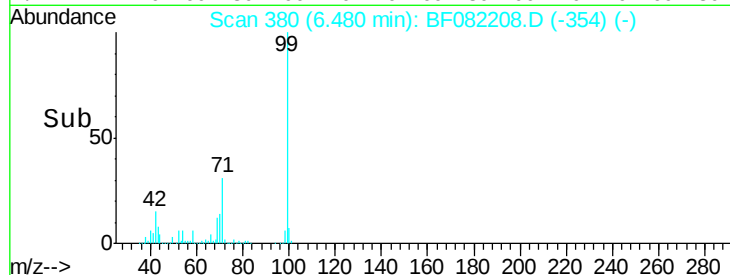
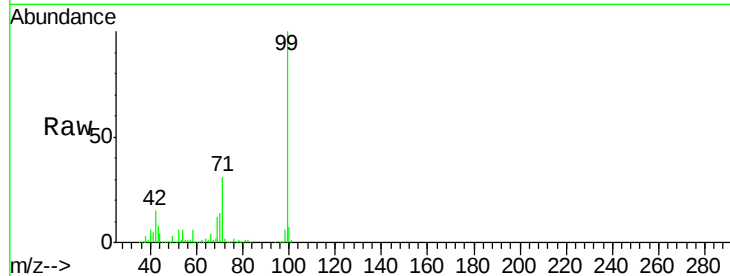


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 114.25 ng

RT: 6.48 min Scan# 380

Delta R.T. 0.00 min

Lab File: BF082208.D

Acq: 11 Oct 2015 7:10

Instrument :

BNA_F

ClientSampleId :

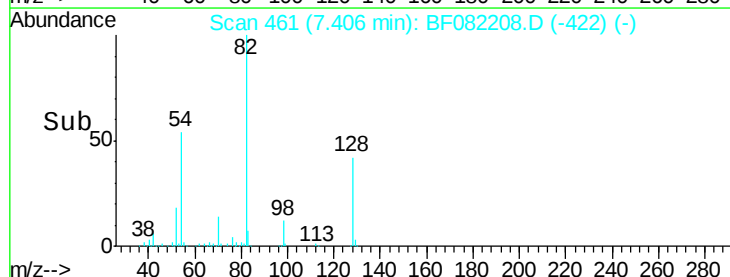
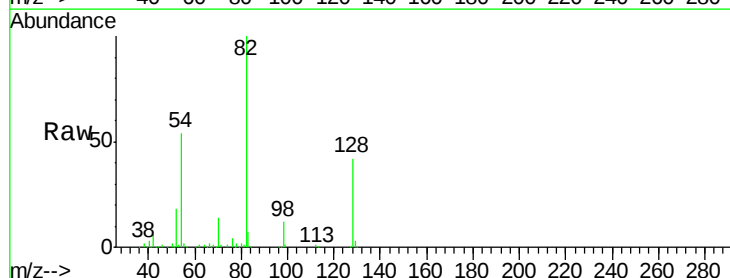
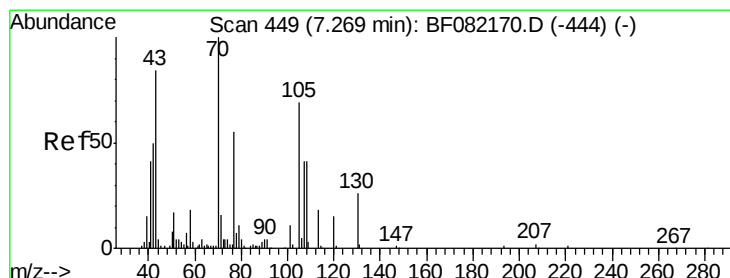
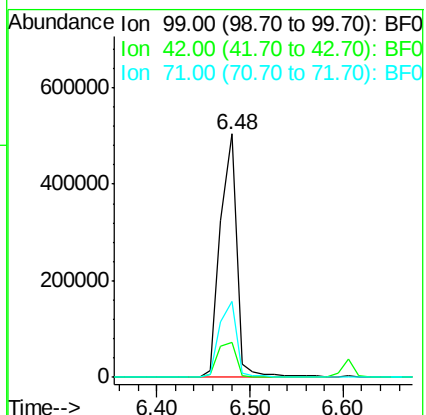
Tot Ion: 99 Resp: 625562

Ion Ratio Lower Upper

99 100

42 14.6 13.2 19.8

71 31.2 25.6 38.4



#19

n-Nitroso-di-n-propylamine

Concen: 12.10 ng

RT: 7.41 min Scan# 461

Delta R.T. 0.15 min

Lab File: BF082208.D

Acq: 11 Oct 2015 7:10

Tgt Ion: 70 Resp: 46514

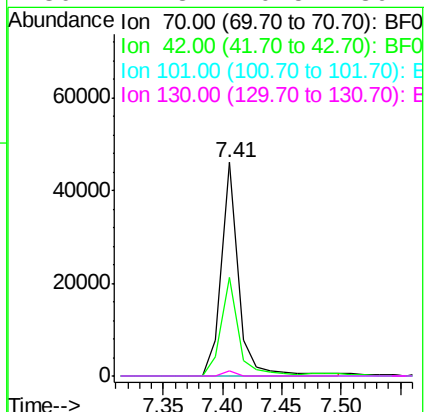
Ion Ratio Lower Upper

70 100

42 46.3 39.8 59.8

101 0.0 8.6 13.0#

130 2.3 20.5 30.7#

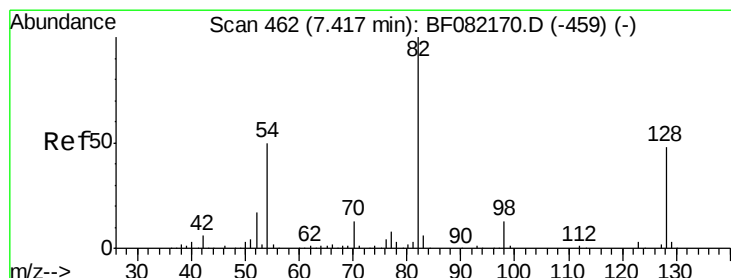
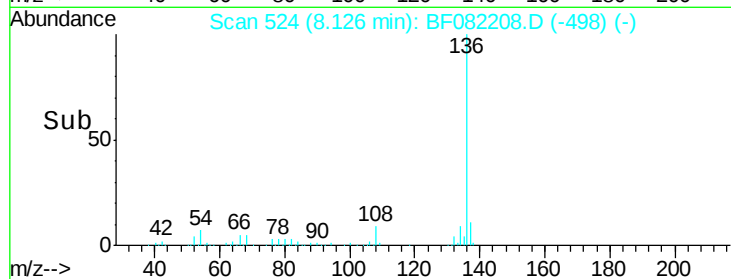
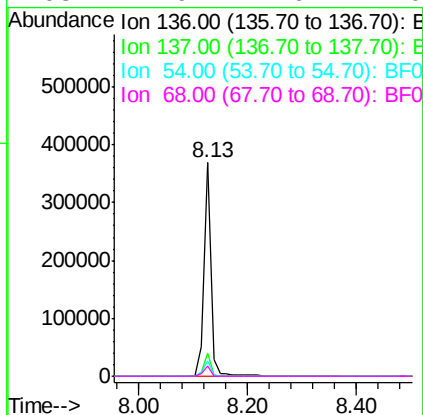
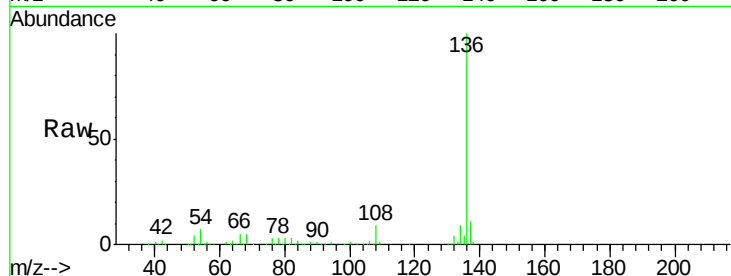




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.13 min Scan# 524
Delta R.T. 0.00 min
Lab File: BF082208.D
Acq: 11 Oct 2015 7:10

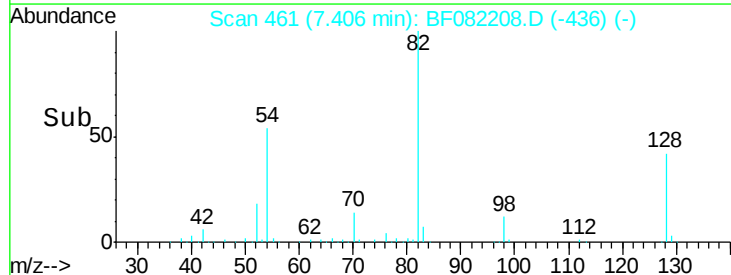
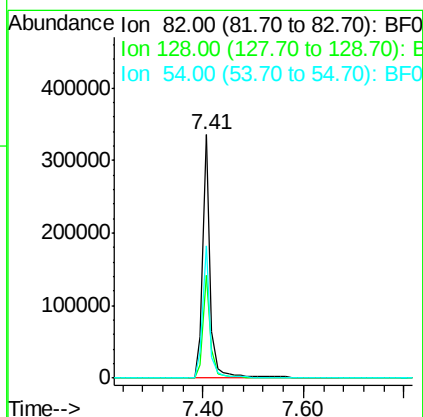
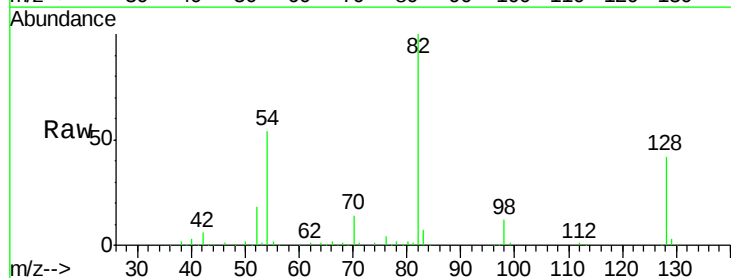
Instrument :
BNA_F
ClientSampled :

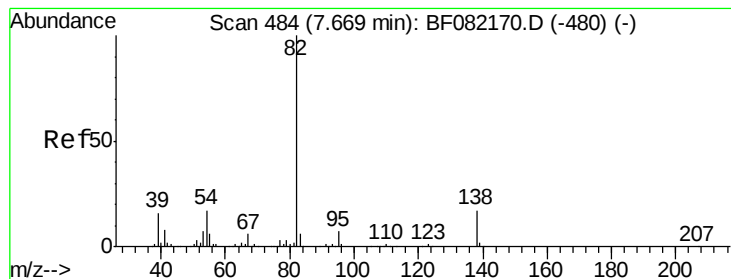
Tot Ion:136	Resp:	326383
Ion Ratio	Lower	Upper
136	100	
137	10.8	9.0 13.6
54	7.1	7.5 11.3#
68	4.9	4.6 7.0



#23
Nitrobenzene-d5
Concen: 73.56 ng
RT: 7.41 min Scan# 461
Delta R.T. -0.01 min
Lab File: BF082208.D
Acq: 11 Oct 2015 7:10

Tgt Ion: 82	Resp:	357499
Ion Ratio	Lower	Upper
82	100	
128	42.5	38.7 58.1
54	54.4	40.1 60.1





#25

Isophorone

Concen: 31.29 ng

RT: 7.41 min Scan# 461

Delta R.T. -0.26 min

Lab File: BF082208.D

Acq: 11 Oct 2015 7:10

Instrument :

BNA_F

ClientSampleId :

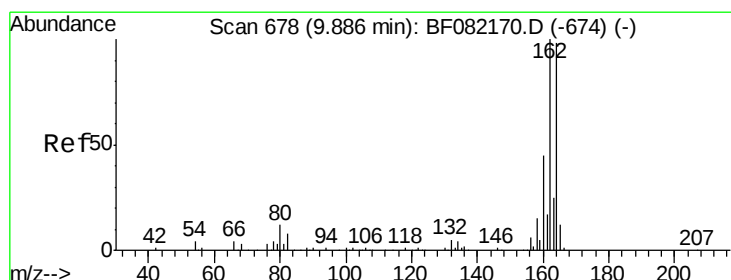
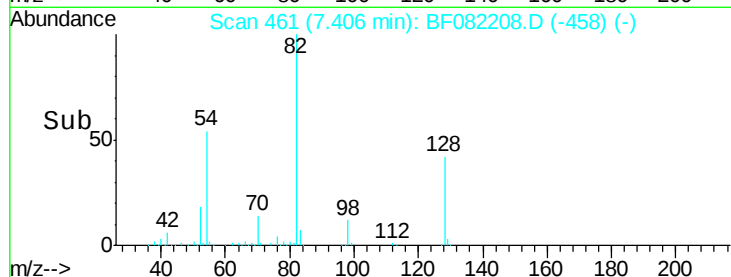
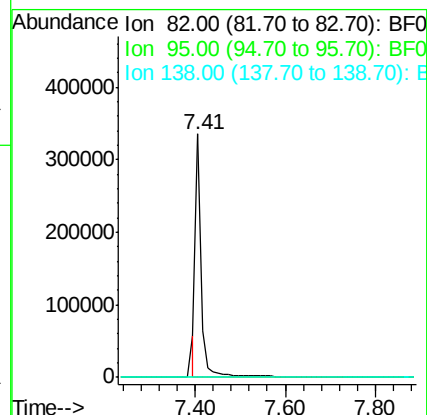
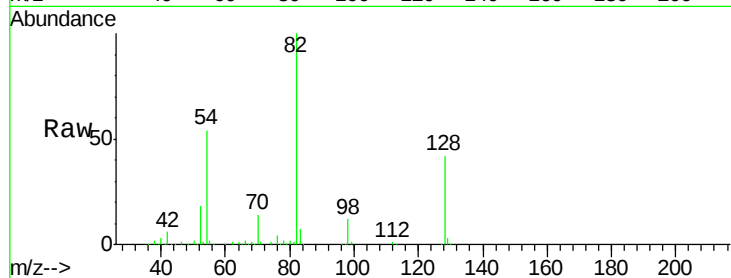
Tot Ion: 82 Resp: 306917

Ion Ratio Lower Upper

82 100

95 0.0 5.6 8.4#

138 0.0 13.6 20.4#



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.89 min Scan# 678

Delta R.T. 0.00 min

Lab File: BF082208.D

Acq: 11 Oct 2015 7:10

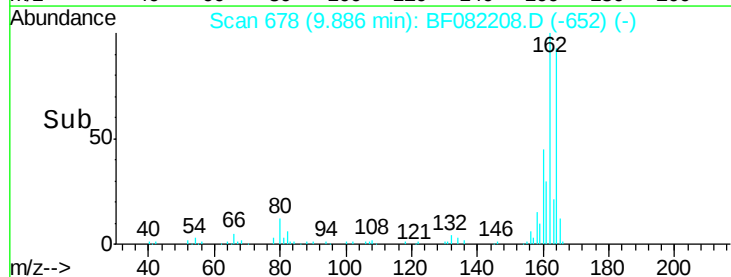
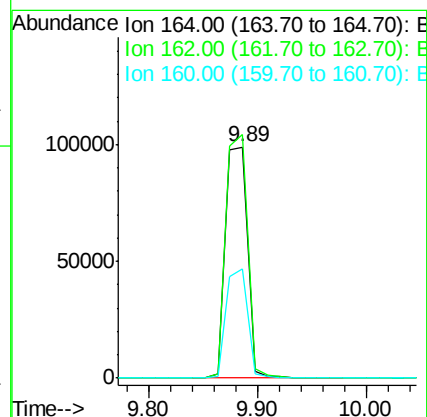
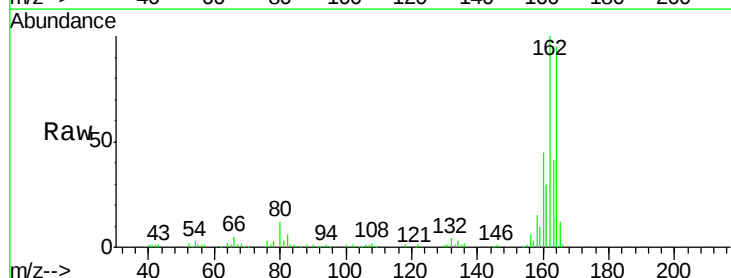
Tgt Ion:164 Resp: 139713

Ion Ratio Lower Upper

164 100

162 105.4 81.6 122.4

160 47.2 36.4 54.6

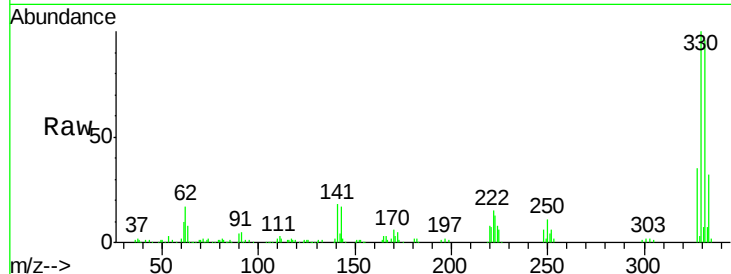




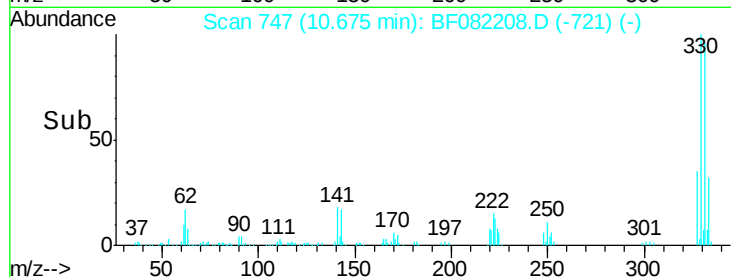
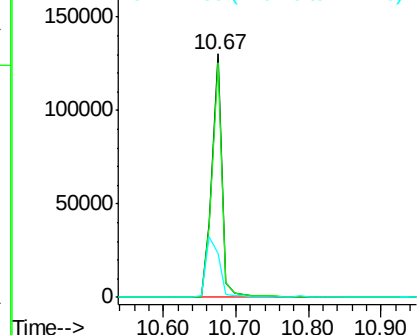
#41
 2,4,6-Tribromophenol
 Concen: 98.06 ng
 RT: 10.67 min Scan# 747
 Delta R.T. 0.00 min
 Lab File: BF082208.D
 Acq: 11 Oct 2015 7:10

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.7	77.1	115.7
141	32.8	29.8	44.8

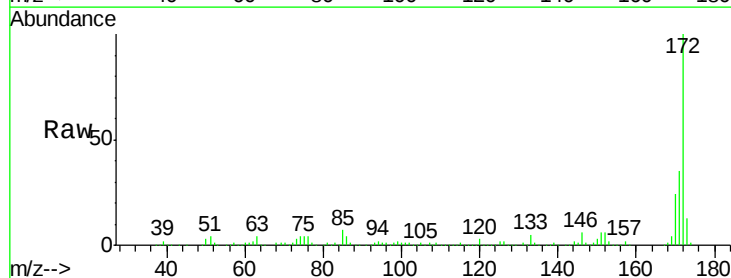


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

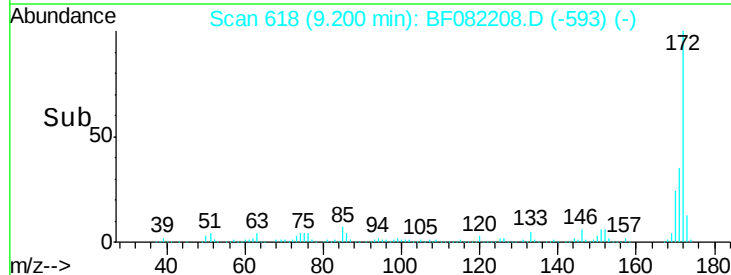
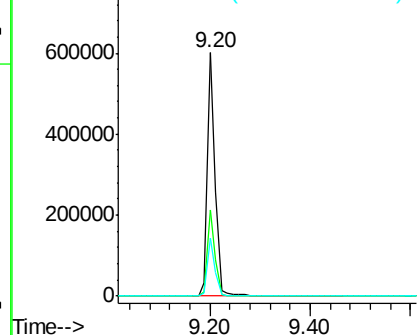


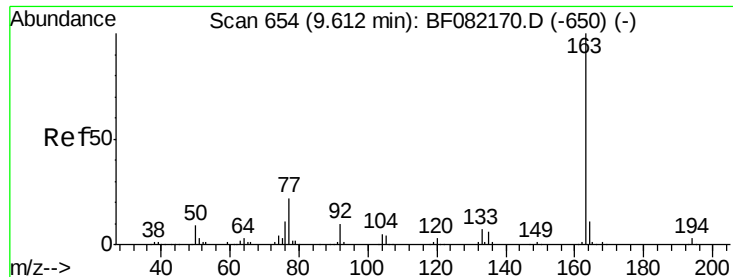
#44
 2-Fluorobiphenyl
 Concen: 76.57 ng
 RT: 9.20 min Scan# 618
 Delta R.T. -0.01 min
 Lab File: BF082208.D
 Acq: 11 Oct 2015 7:10

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.6	42.8
170	23.8	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

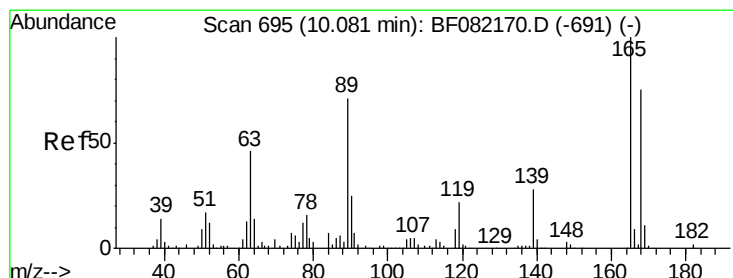
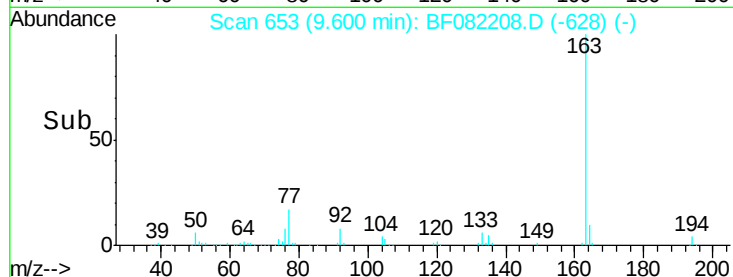
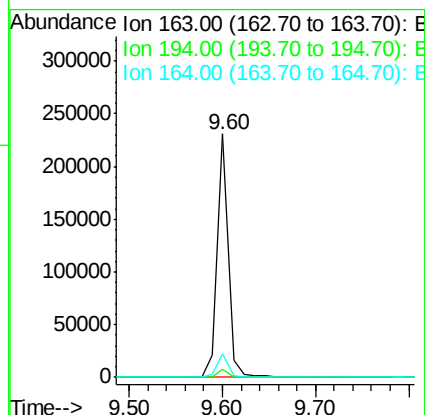
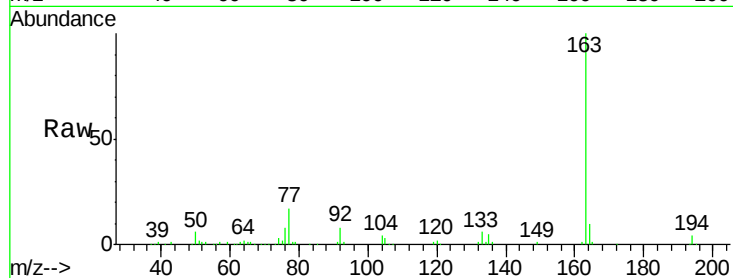




#49
Dimethylphthalate
Concen: 19.23 ng
RT: 9.60 min Scan# 653
Delta R.T. -0.01 min
Lab File: BF082208.D
Acq: 11 Oct 2015 7:10

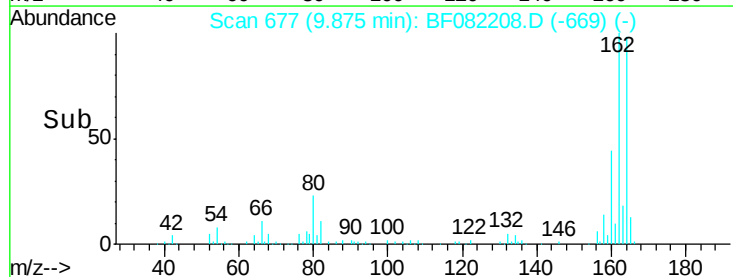
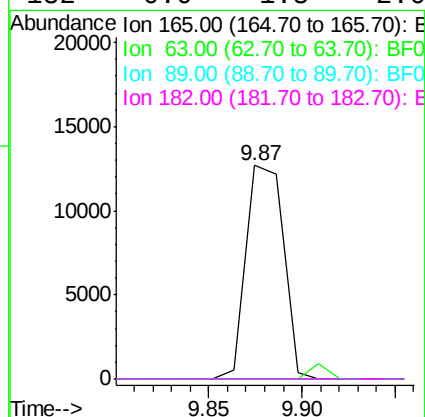
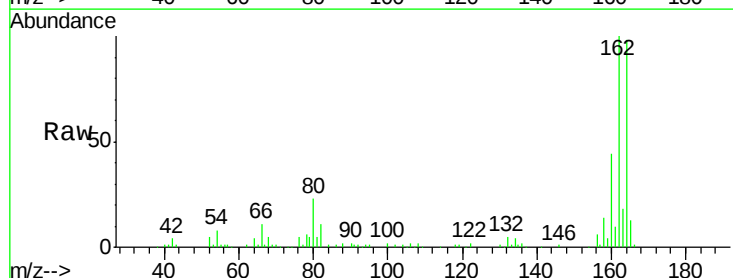
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BNA_F
ClientSampleId :

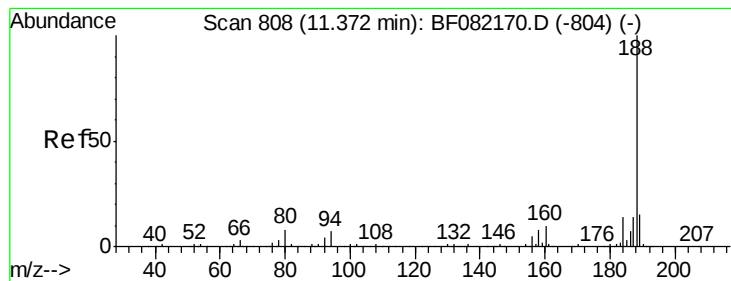
Tot Ion:163 Resp: 189172
Ion Ratio Lower Upper
163 100
194 3.6 2.6 4.0
164 9.7 8.5 12.7



#56
2,4-Dinitrotoluene
Concen: 6.81 ng
RT: 9.87 min Scan# 677
Delta R.T. -0.21 min
Lab File: BF082208.D
Acq: 11 Oct 2015 7:10

Tgt Ion:165 Resp: 17659
Ion Ratio Lower Upper
165 100
63 0.0 38.6 58.0#
89 0.0 57.0 85.6#
182 0.0 1.8 2.6#





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.37 min Scan# 808

Delta R.T. 0.00 min

Lab File: BF082208.D

Acq: 11 Oct 2015 7:10

Instrument :

BNA_F

ClientSampleId :

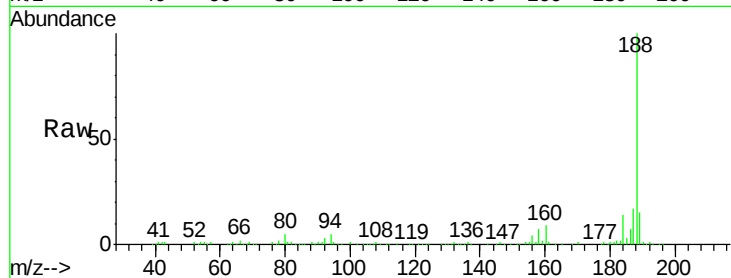
Tot Ion:188 Resp: 226482

Ion Ratio Lower Upper

188 100

94 5.4 5.8 8.6#

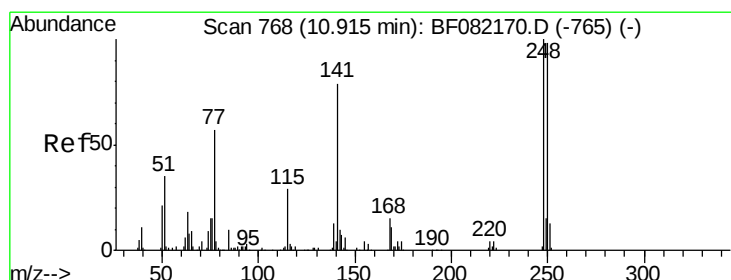
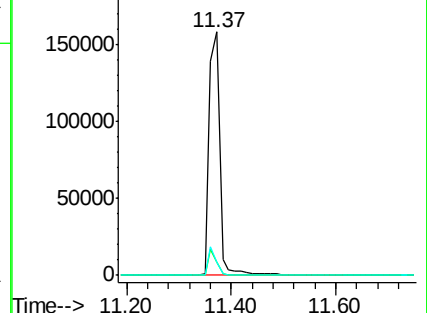
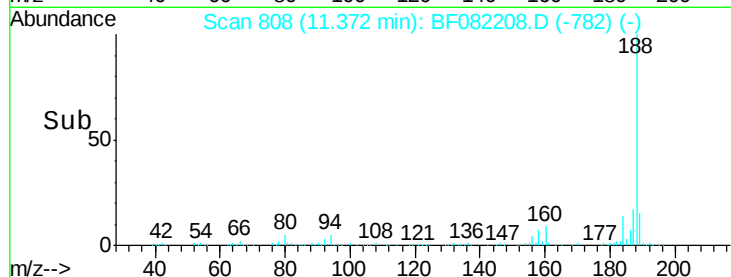
80 5.3 6.4 9.6#



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



#66

4-Bromophenyl-phenylether

Concen: 3.73 ng

RT: 10.67 min Scan# 747

Delta R.T. -0.24 min

Lab File: BF082208.D

Acq: 11 Oct 2015 7:10

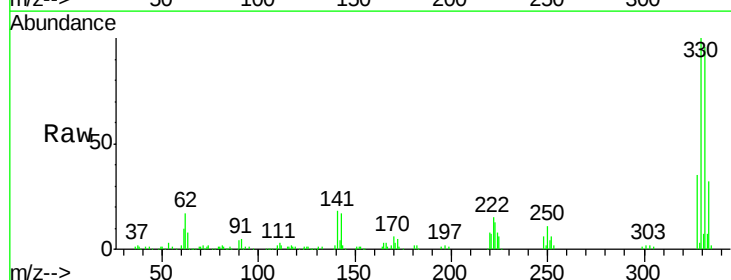
Tgt Ion:248 Resp: 8459

Ion Ratio Lower Upper

248 100

250 198.7 78.6 117.8#

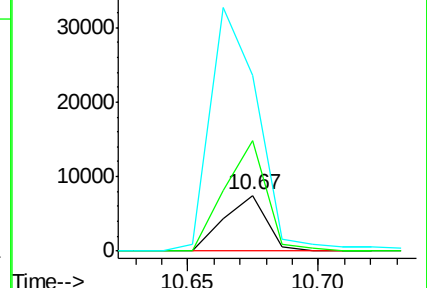
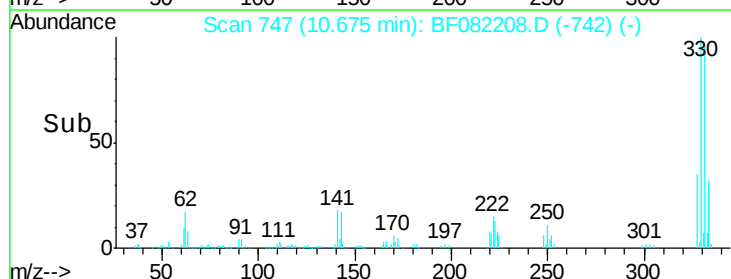
141 314.8 63.3 94.9#

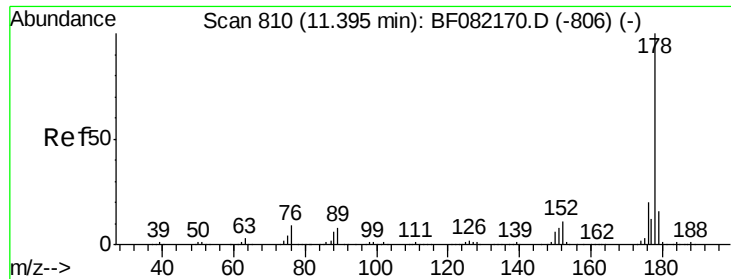


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

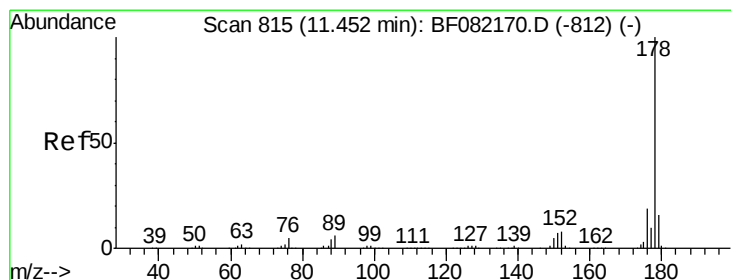
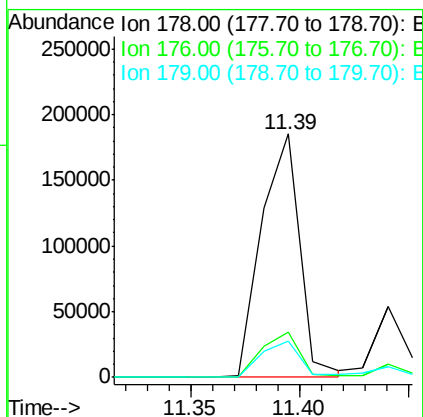
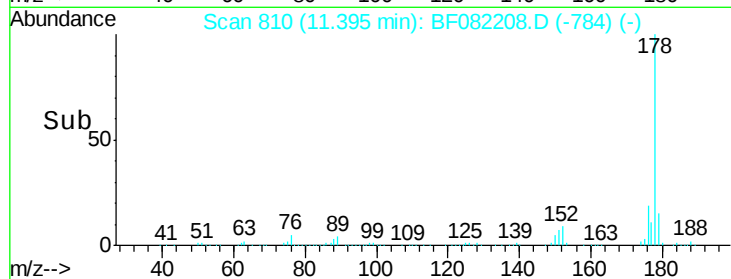
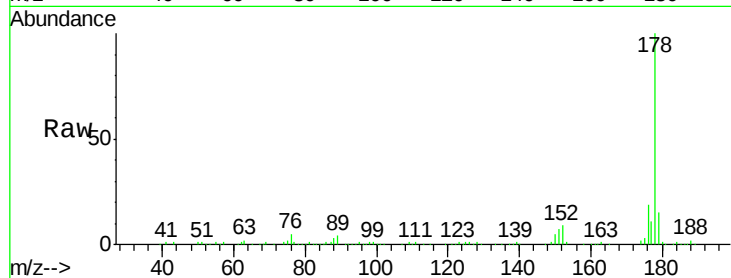




#70
Phenanthrene
Concen: 20.55 ng
RT: 11.39 min Scan# 810
Delta R.T. 0.00 min
Lab File: BF082208.D
Acq: 11 Oct 2015 7:10

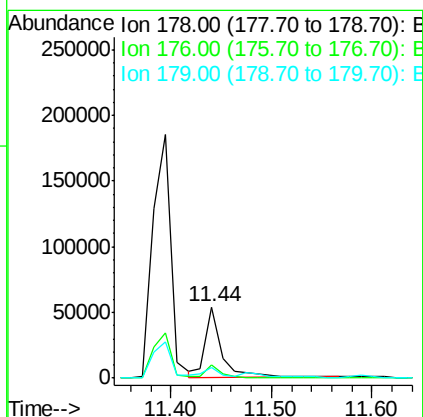
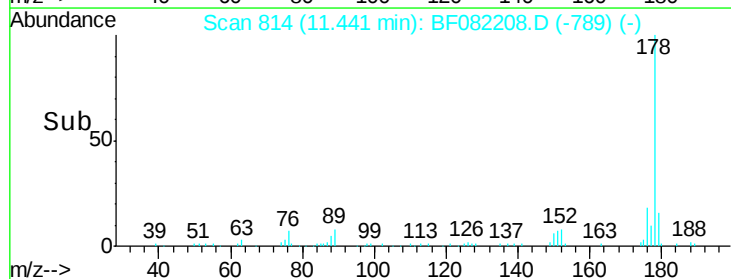
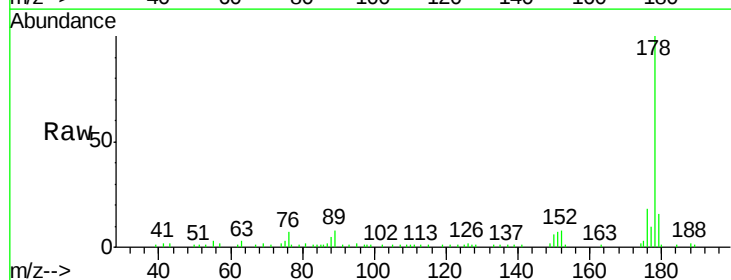
Instrument :
BNA_F
ClientSampleId :

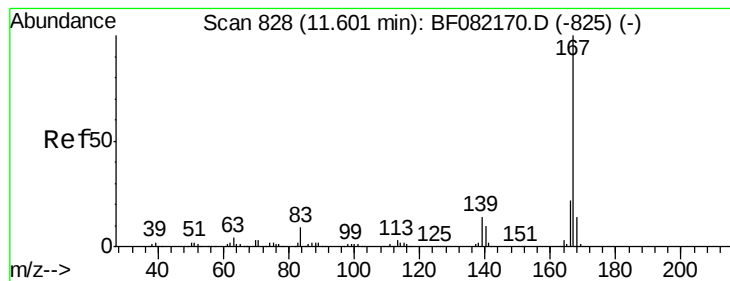
Tot Ion:178 Resp: 228118
Ion Ratio Lower Upper
178 100
176 18.7 16.0 24.0
179 14.8 12.6 19.0



#71
Anthracene
Concen: 5.34 ng
RT: 11.44 min Scan# 814
Delta R.T. -0.01 min
Lab File: BF082208.D
Acq: 11 Oct 2015 7:10

Tgt Ion:178 Resp: 61141
Ion Ratio Lower Upper
178 100
176 18.1 15.4 23.0
179 15.9 12.5 18.7





#72

Carbazole

Concen: 2.22 ng

RT: 11.60 min Scan# 828

Delta R.T. 0.00 min

Lab File: BF082208.D

Acq: 11 Oct 2015 7:10

Instrument :

BNA_F

ClientSampleId :

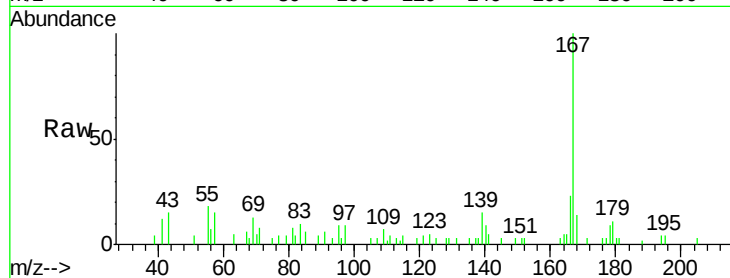
Tot Ion:167 Resp: 23185

Ion Ratio Lower Upper

167 100

166 23.2 17.3 25.9

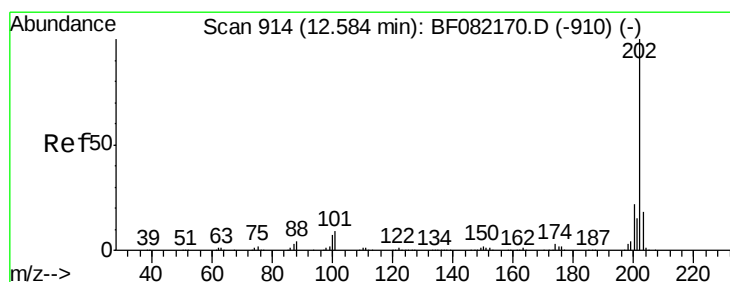
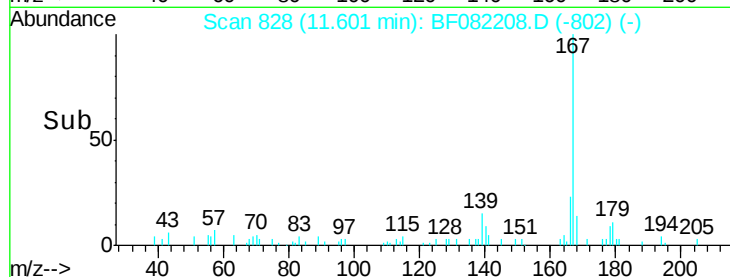
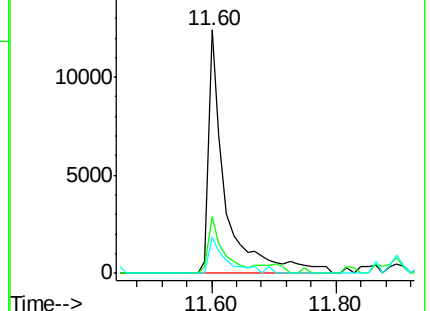
139 14.7 11.2 16.8



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: 43.78 ng

RT: 12.58 min Scan# 914

Delta R.T. 0.00 min

Lab File: BF082208.D

Acq: 11 Oct 2015 7:10

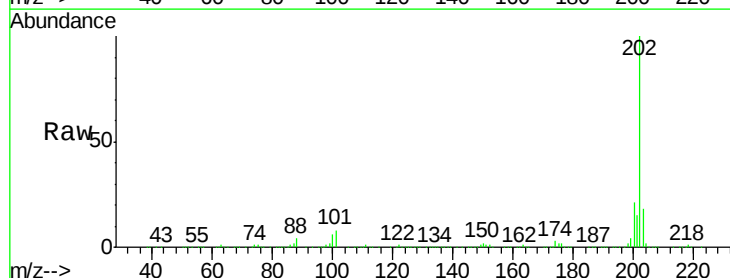
Tgt Ion:202 Resp: 521983

Ion Ratio Lower Upper

202 100

101 7.9 0.0 29.3

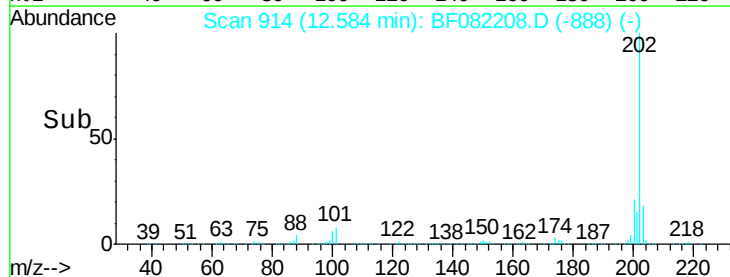
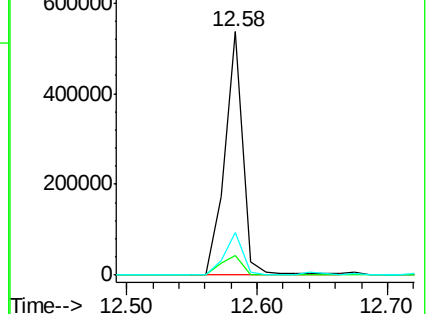
203 17.7 0.0 37.8

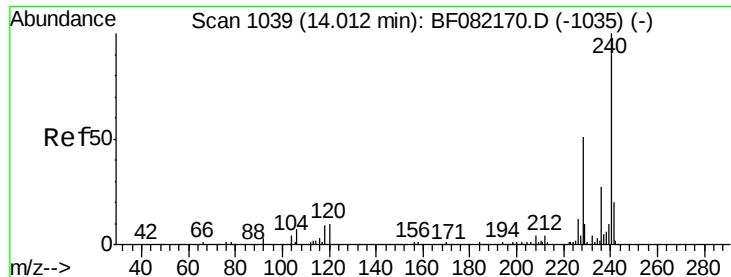


Abundance Ion 202.00 (201.70 to 202.70): E

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: BF082208.D

Acq: 11 Oct 2015 7:10

Instrument :

BNA_F

ClientSampleId :

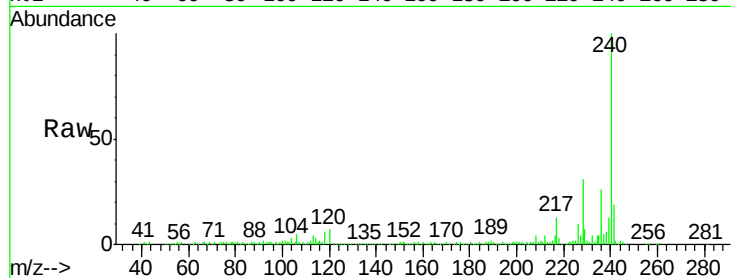
Tot Ion:240 Resp: 196152

Ion Ratio Lower Upper

240 100

120 7.0 8.1 12.1#

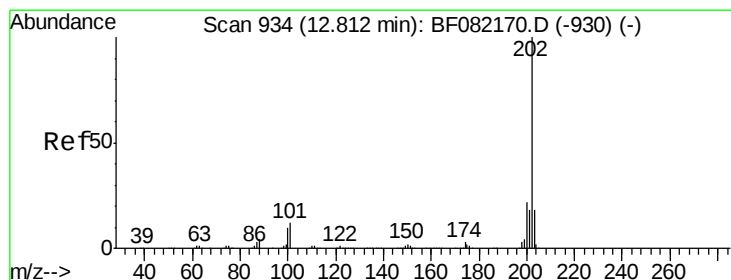
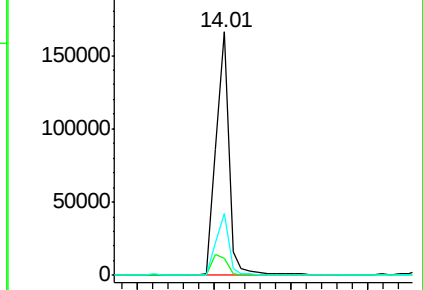
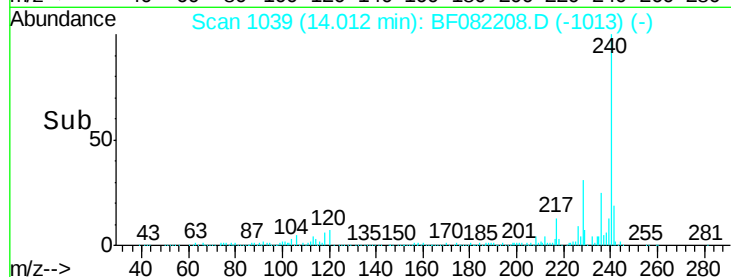
236 25.5 21.3 31.9



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 35.47 ng

RT: 12.81 min Scan# 934

Delta R.T. 0.00 min

Lab File: BF082208.D

Acq: 11 Oct 2015 7:10

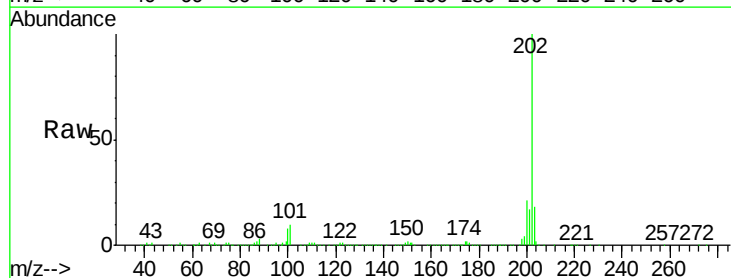
Tgt Ion:202 Resp: 412846

Ion Ratio Lower Upper

202 100

200 21.5 17.9 26.9

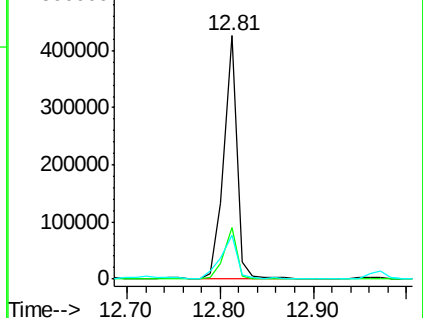
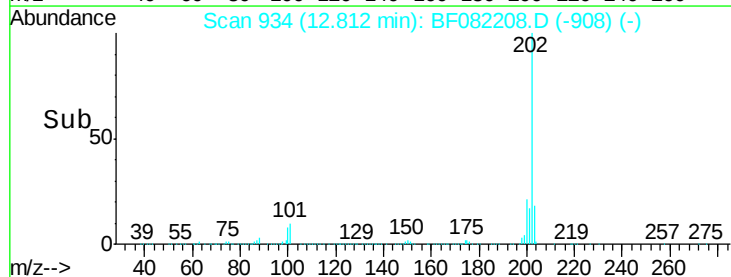
203 17.9 14.5 21.7

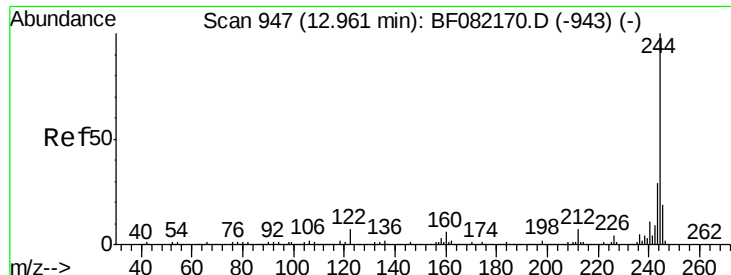


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 64.52 ng

RT: 12.95 min Scan# 946

Delta R.T. -0.01 min

Lab File: BF082208.D

Acq: 11 Oct 2015 7:10

Instrument :

BNA_F

ClientSampled :

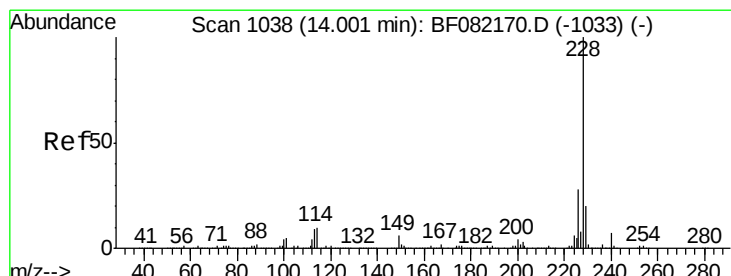
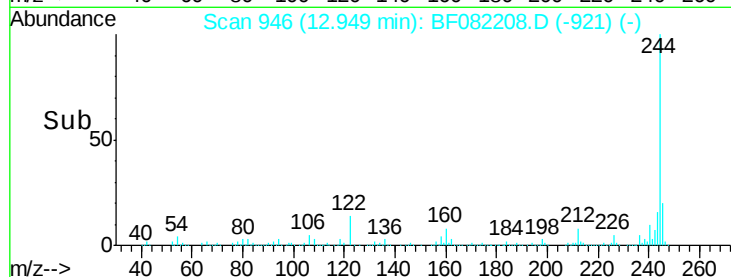
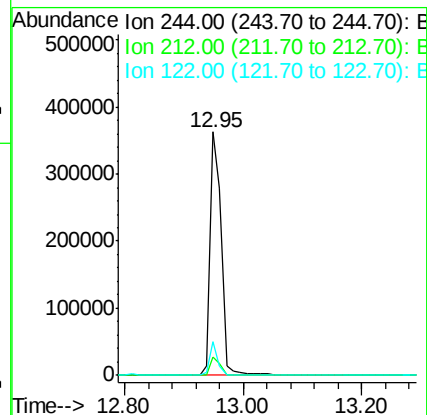
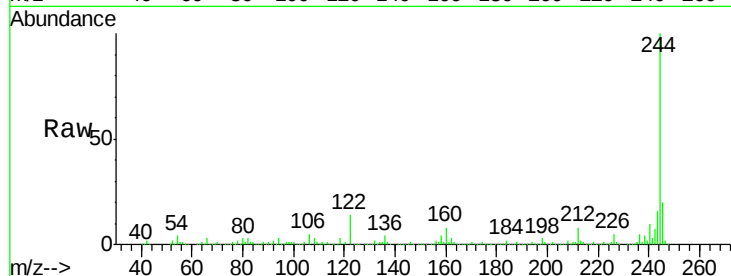
Tot Ion:244 Resp: 477603

Ion Ratio Lower Upper

244 100

212 7.6 5.8 8.6

122 13.8 5.9 8.9#



#80

Benzo(a)anthracene

Concen: 22.74 ng

RT: 14.00 min Scan# 1038

Delta R.T. 0.00 min

Lab File: BF082208.D

Acq: 11 Oct 2015 7:10

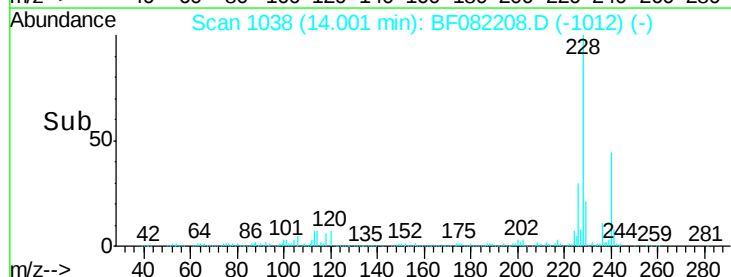
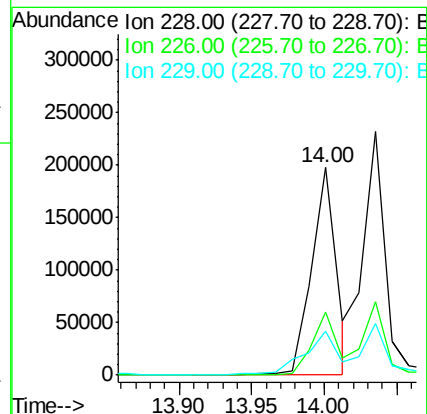
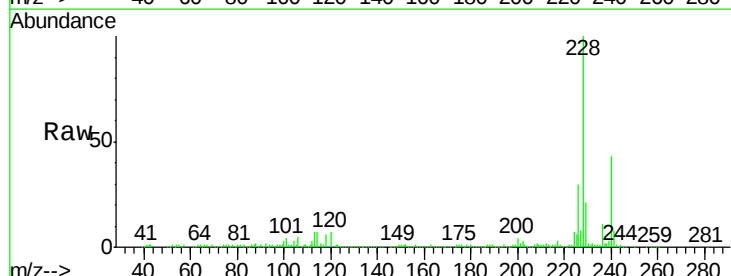
Tgt Ion:228 Resp: 232090

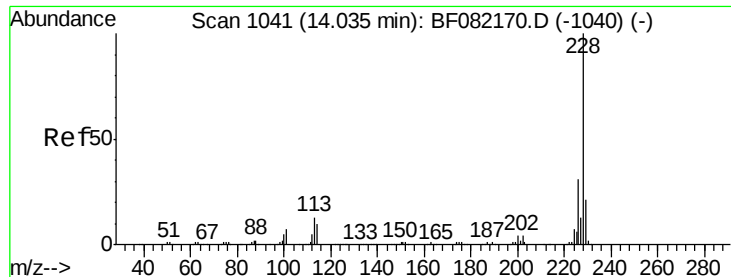
Ion Ratio Lower Upper

228 100

226 30.4 22.3 33.5

229 21.4 16.2 24.2





#82

Chrysene

Concen: 21.57 ng

RT: 14.00 min Scan# 1038

Delta R.T. -0.03 min

Lab File: BF082208.D

Acq: 11 Oct 2015 7:10

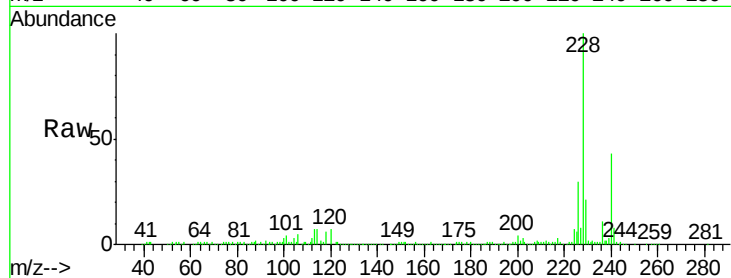
Instrument :

BNA_F

ClientSampleId :

Tot Ion:228 Resp: 231981

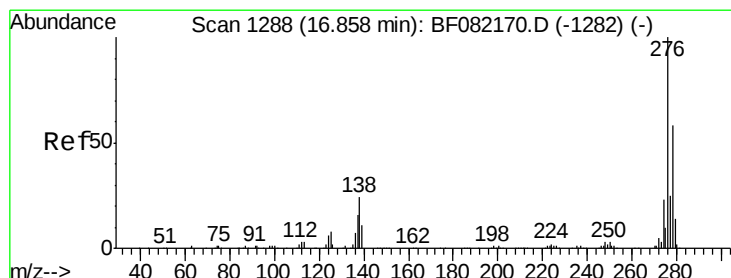
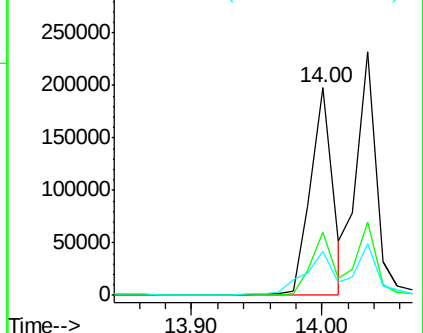
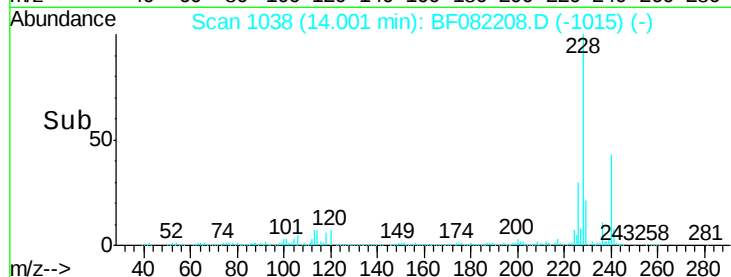
Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.4	36.6
229	21.4	16.3	24.5



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: 17.08 ng

RT: 16.85 min Scan# 1287

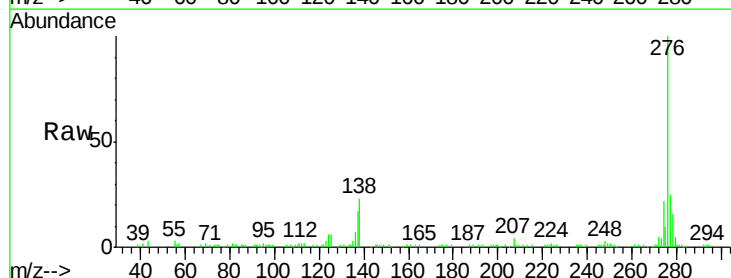
Delta R.T. -0.01 min

Lab File: BF082208.D

Acq: 11 Oct 2015 7:10

Tgt Ion:276 Resp: 145947

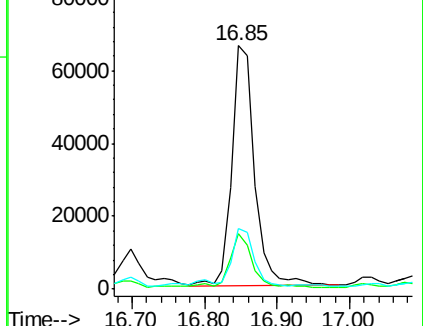
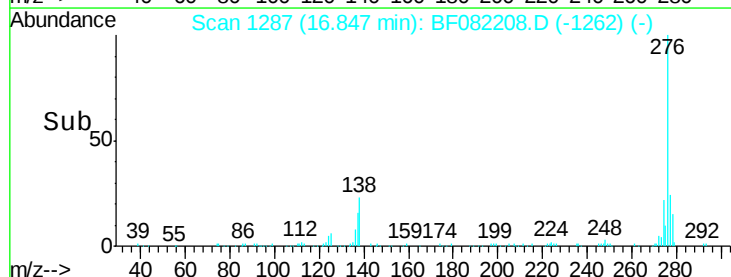
Ion	Ratio	Lower	Upper
276	100		
138	23.2	19.7	29.5
277	25.3	20.1	30.1

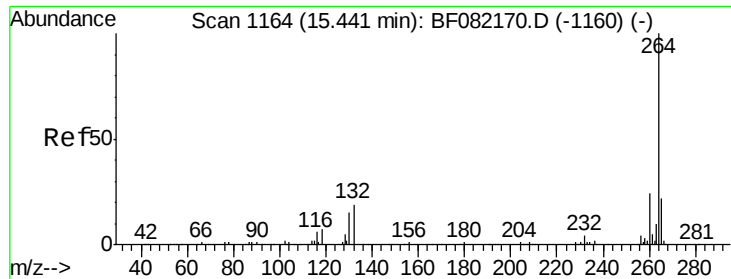


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

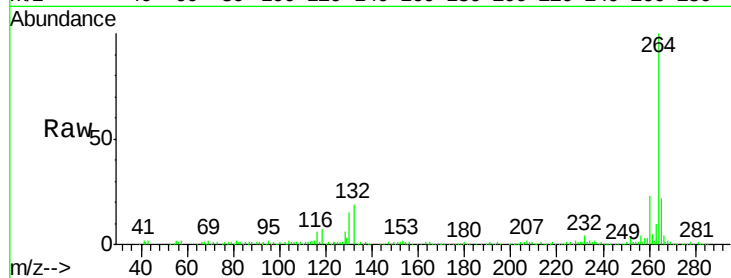




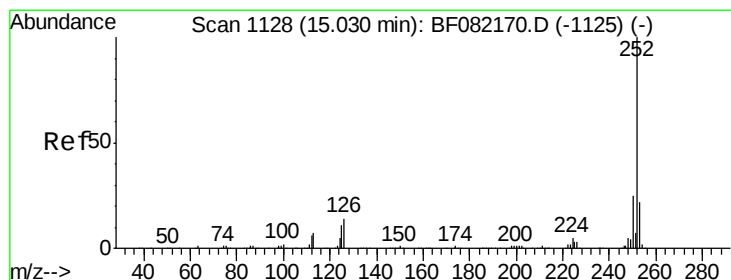
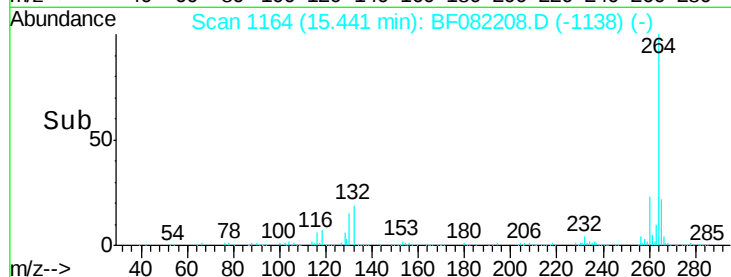
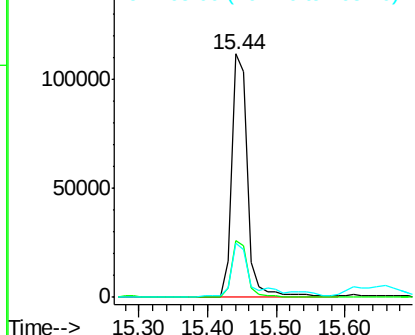
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.44 min Scan# 1164
Delta R.T. 0.00 min
Lab File: BF082208.D
Acq: 11 Oct 2015 7:10

Instrument :
BNA_F
ClientSampled :

Tot Ion:264 Resp: 182987
Ion Ratio Lower Upper
264 100
260 23.4 19.0 28.6
265 22.3 17.3 25.9

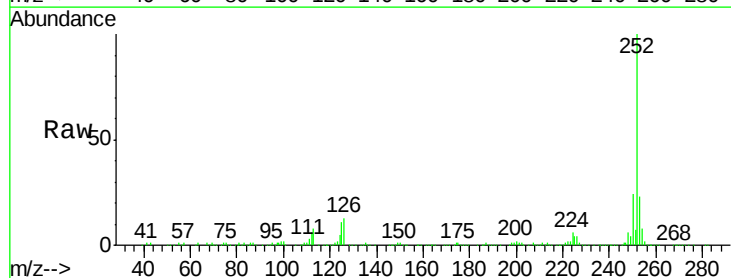


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

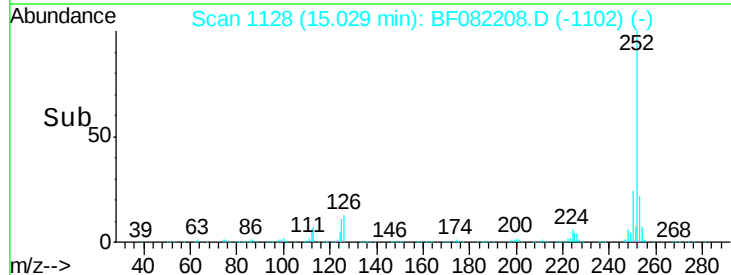
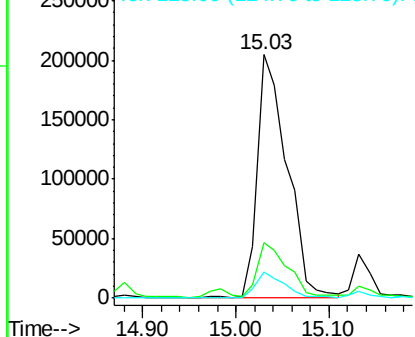


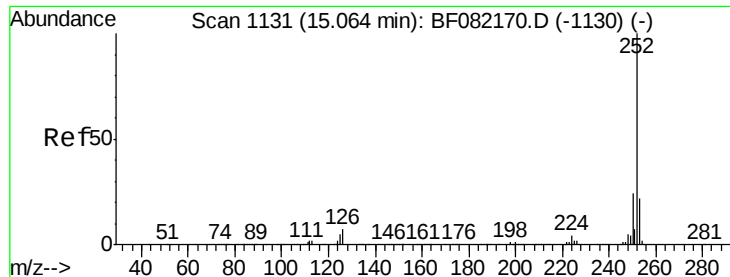
#87
Benzo(b)fluoranthene
Concen: 40.85 ng
RT: 15.03 min Scan# 1128
Delta R.T. 0.00 min
Lab File: BF082208.D
Acq: 11 Oct 2015 7:10

Tgt Ion:252 Resp: 454735
Ion Ratio Lower Upper
252 100
253 22.8 18.0 27.0
125 10.7 8.6 12.8



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

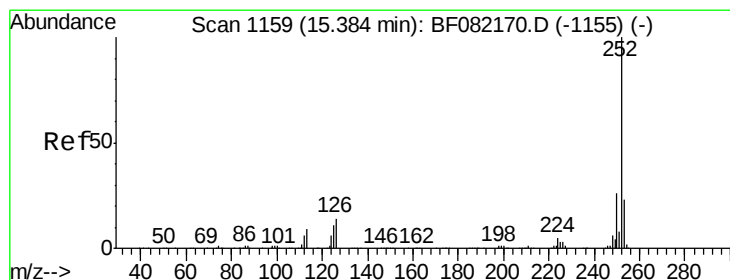
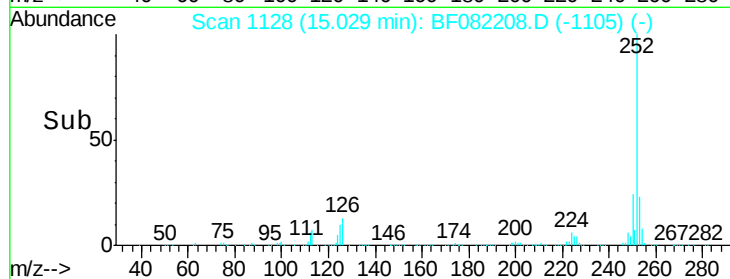
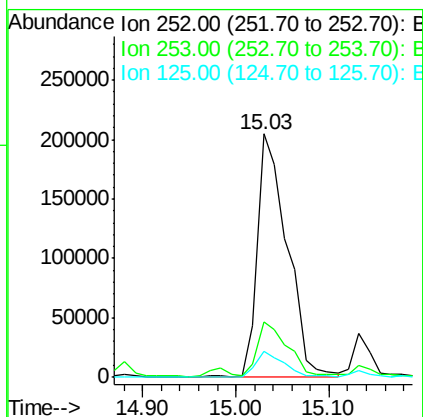
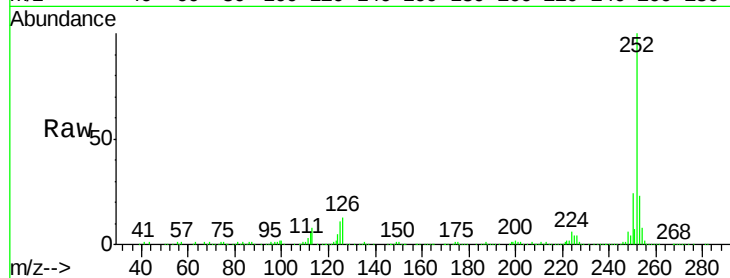




#88
Benzo(k)fluoranthene
Concen: 48.60 ng
RT: 15.03 min Scan# 1128
Delta R.T. -0.03 min
Lab File: BF082208.D
Acq: 11 Oct 2015 7:10

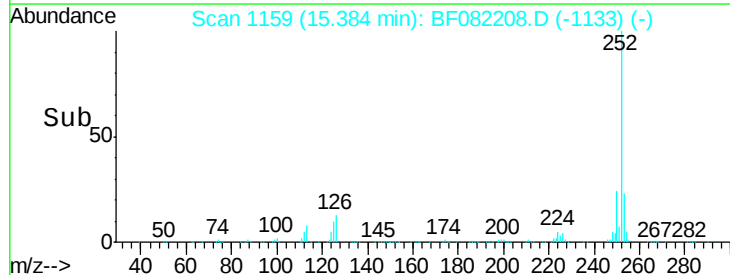
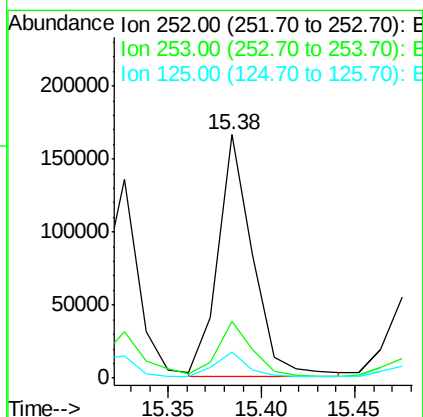
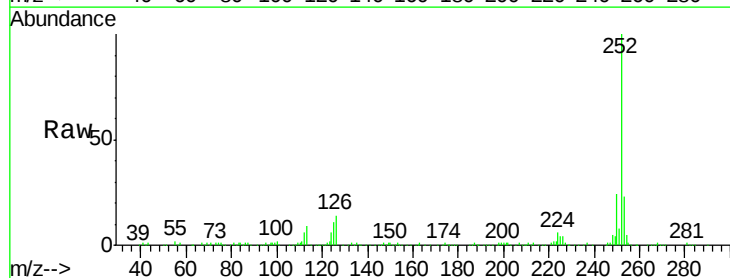
Instrument :
BNA_F
ClientSampleId :

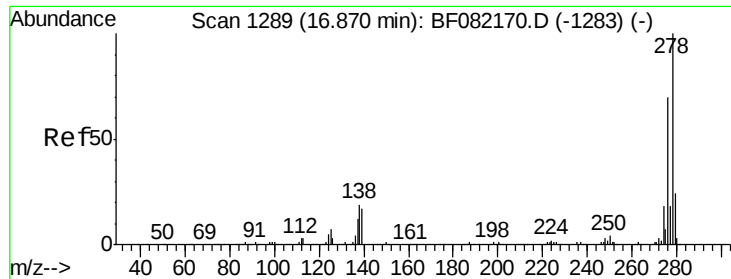
Tot Ion:252 Resp: 454735
Ion Ratio Lower Upper
252 100
253 22.8 17.8 26.6
125 10.7 6.7 10.1#



#89
Benzo(a)pyrene
Concen: 22.53 ng
RT: 15.38 min Scan# 1159
Delta R.T. 0.00 min
Lab File: BF082208.D
Acq: 11 Oct 2015 7:10

Tgt Ion:252 Resp: 215529
Ion Ratio Lower Upper
252 100
253 23.5 18.2 27.2
125 10.6 8.9 13.3





#90

Dibenzo(a,h)anthracene

Concen: 3.34 ng

RT: 16.86 min Scan# 1288

Delta R.T. -0.01 min

Lab File: BF082208.D

Acq: 11 Oct 2015 7:10

Instrument :

BNA_F

ClientSampleId :

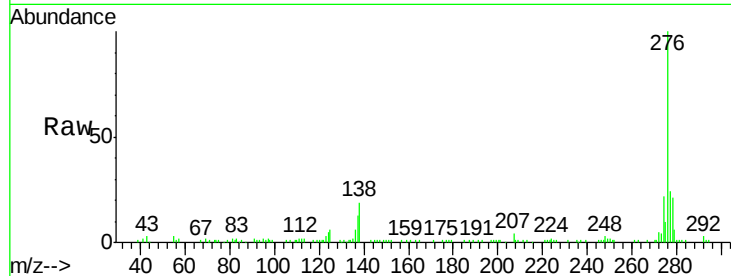
Tot Ion:278 Resp: 26216

Ion Ratio Lower Upper

278 100

139 0.0 13.3 19.9#

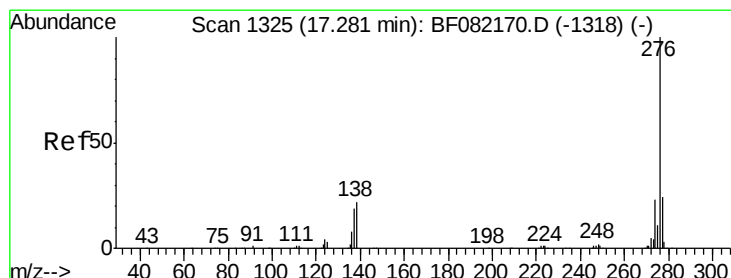
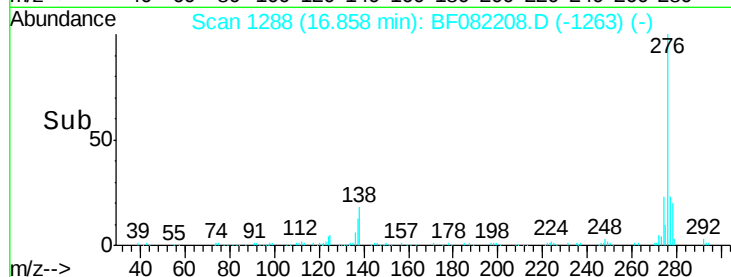
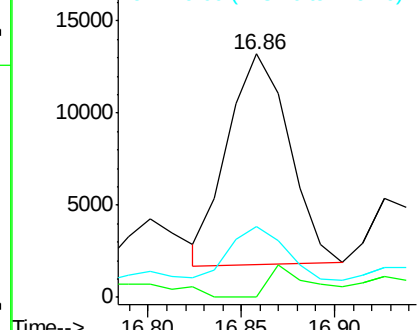
279 29.3 18.9 28.3#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 17.78 ng

RT: 17.28 min Scan# 1325

Delta R.T. 0.00 min

Lab File: BF082208.D

Acq: 11 Oct 2015 7:10

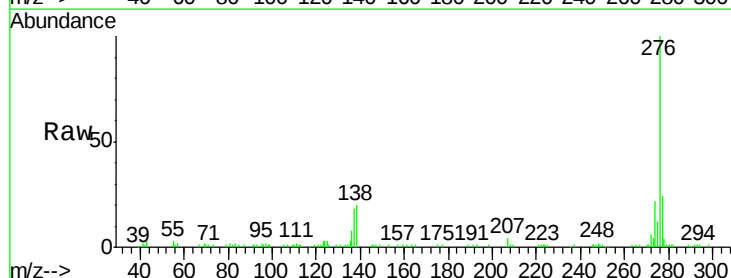
Tgt Ion:276 Resp: 135423

Ion Ratio Lower Upper

276 100

277 24.0 18.8 28.2

138 20.2 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

