

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF092316\
 Data File : BF090211.D
 Acq On : 23 Sep 2016 21:28
 Operator : UM/SJ
 Sample : H4896-01
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RICHMOND-REC-SELECTFILL-1

Quant Time: Sep 23 23:26:17 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 20 17:58:29 2016
 Response via : Initial Calibration

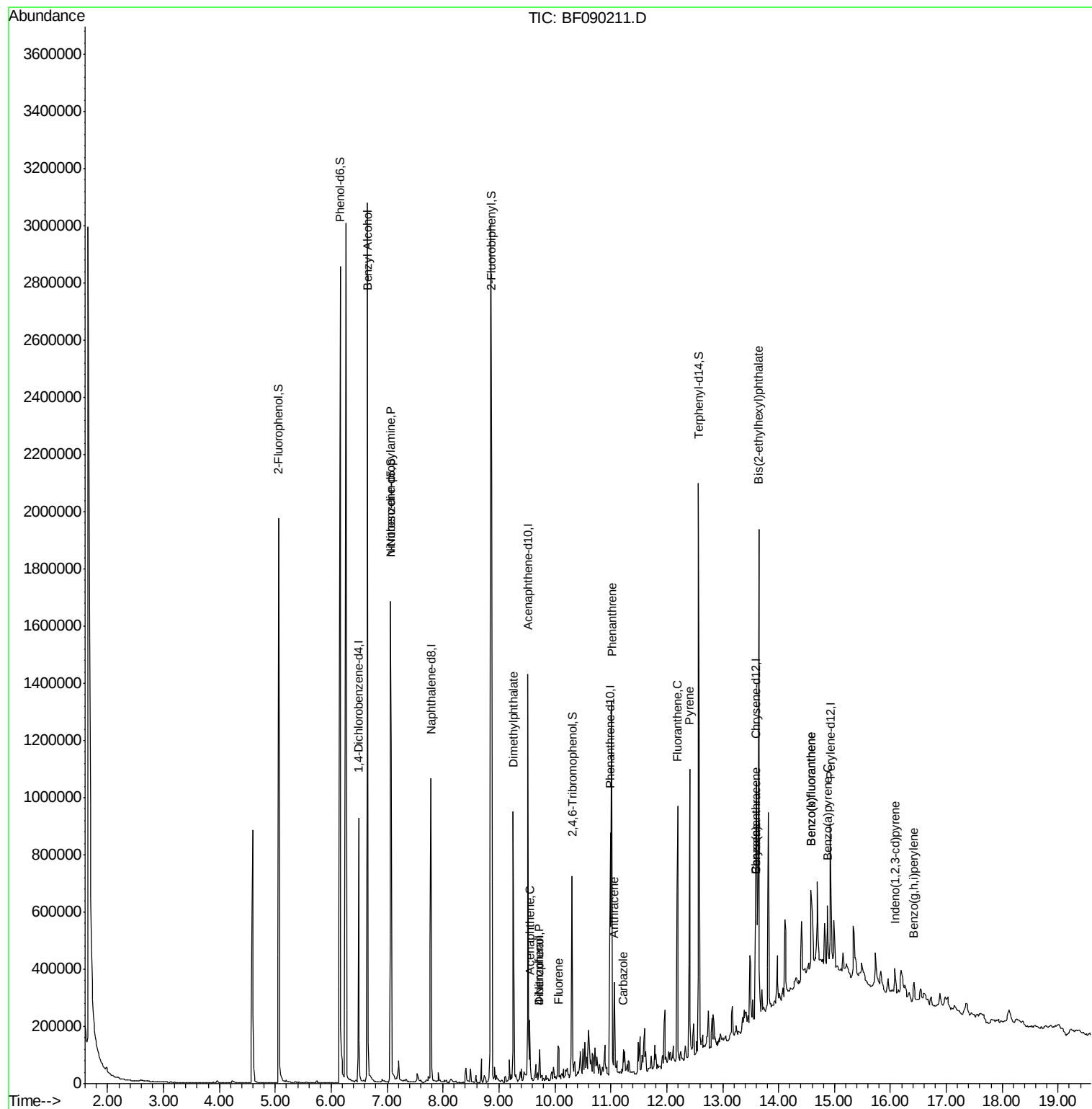
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.49	152	145784	20.00	ng	-0.03
21) Naphthalene-d8	7.78	136	579960	20.00	ng	-0.03
38) Acenaphthene-d10	9.52	164	289896	20.00	ng	-0.03
63) Phenanthrene-d10	10.99	188	382650	20.00	ng	-0.03
75) Chrysene-d12	13.60	240	259728	20.00	ng	-0.03
86) Perylene-d12	14.93	264	224881	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.06	112	713135	79.73	ng	-0.01
7) Phenol-d6	6.16	99	1445665	130.88	ng	-0.01
23) Nitrobenzene-d5	7.06	82	914580	91.41	ng	-0.03
41) 2,4,6-Tribromophenol	10.31	330	133706	53.76	ng	-0.03
44) 2-Fluorobiphenyl	8.86	172	1457751	98.72	ng	-0.03
78) Terphenyl-d14	12.57	244	817443	79.91	ng	-0.03
Target Compounds						Qvalue
15) Benzyl Alcohol	6.65	79	14678	2.23	ng	# 45
19) n-Nitroso-di-n-propylamine	7.06	70	106921	16.48	ng	# 79
49) Dimethylphthalate	9.26	163	487650	26.41	ng	99
51) Acenaphthene	9.55	154	42810	2.90	ng	99
54) Dibenzofuran	9.72	168	45801	2.36	ng	96
55) 4-Nitrophenol	9.72	139	15364	4.65	ng	# 20
57) Fluorene	10.07	166	50684	3.46	ng	100
70) Phenanthrene	11.02	178	536418	29.98	ng	99
71) Anthracene	11.06	178	136157	7.25	ng	98
72) Carbazole	11.22	167	47648	2.40	ng	97
74) Fluoranthene	12.19	202	474721	24.71	ng	92
77) Pyrene	12.41	202	382152	21.50	ng	97
80) Benzo(a)anthracene	13.59	228	167185	11.96	ng	98
82) Chrysene	13.59	228	167185	12.28	ng	96
83) Bis(2-ethylhexyl)phthalate	13.65	149	661613	59.47	ng	# 98
85) Indeno(1,2,3-cd)pyrene	16.08	276	57204	5.20	ng	94
87) Benzo(b)fluoranthene	14.58	252	207631	16.67	ng	97
88) Benzo(k)fluoranthene	14.58	252	207631	17.77	ng	# 92
89) Benzo(a)pyrene	14.88	252	107086	9.14	ng	# 96
91) Benzo(g,h,i)perylene	16.42	276	50811	5.68	ng	94

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

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF092316\
Data File : BF090211.D
Acq On : 23 Sep 2016 21:28
Operator : UM/SJ
Sample : H4896-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RICHMOND-REC-SELECTFILL-1

Quant Time: Sep 23 23:26:17 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 20 17:58:29 2016
Response via : Initial Calibration

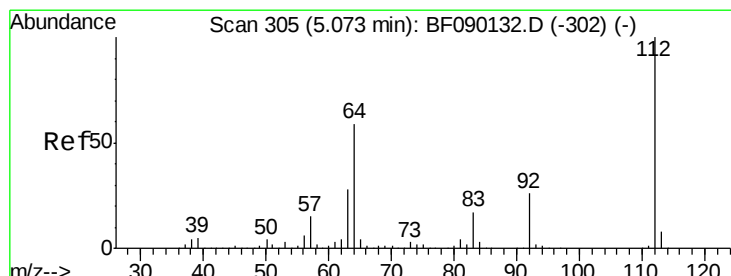
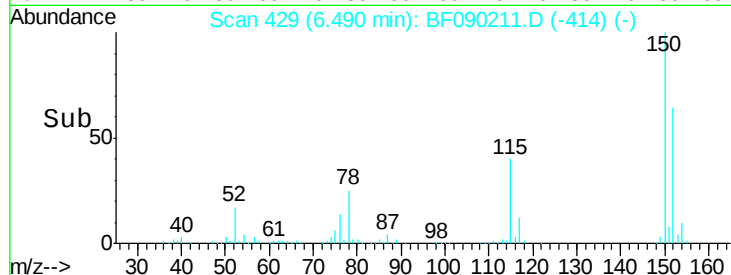
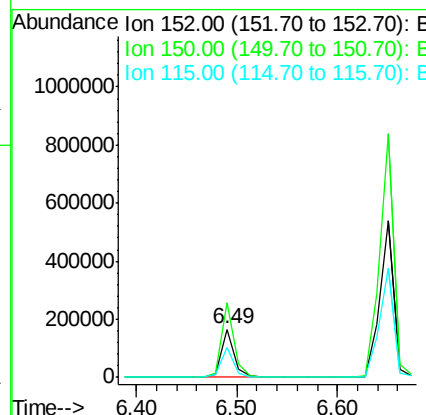
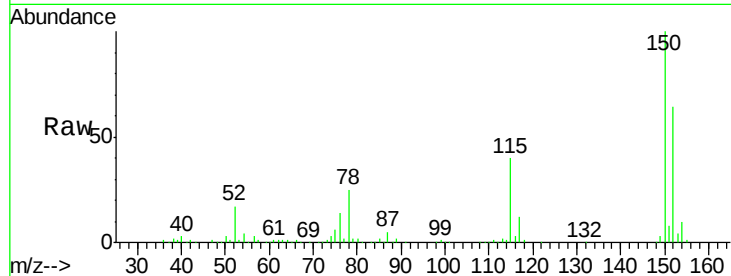




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.49 min Scan# 429
 Delta R.T. -0.03 min
 Lab File: BF090211.D
 Acq: 23 Sep 2016 21:28

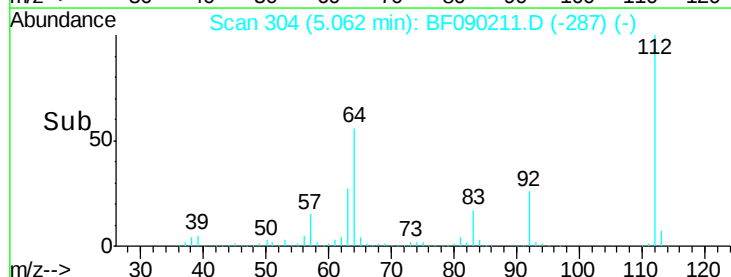
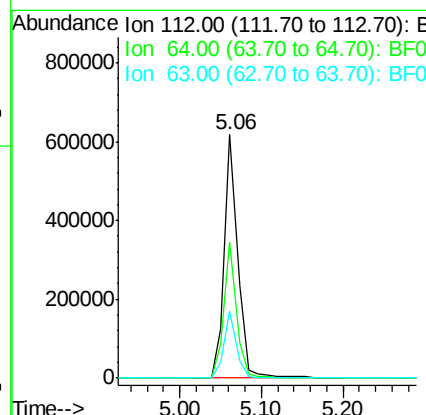
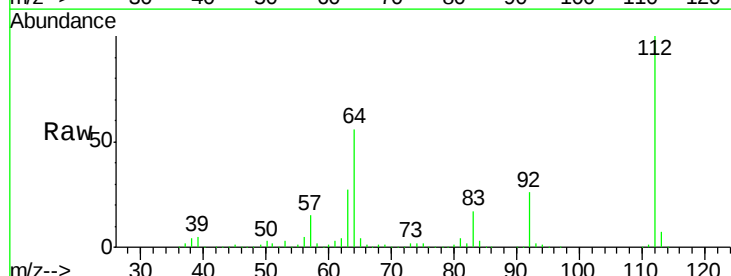
Instrument :
 BNA_F
 ClientSampleId :
 RICHMOND-REC-SELECTFILL-1

Tgt Ion:152 Resp: 145784
 Ion Ratio Lower Upper
 152 100
 150 155.2 128.9 193.3
 115 62.2 55.5 83.3



#5
 2-Fluorophenol
 Concen: 79.73 ng
 RT: 5.06 min Scan# 304
 Delta R.T. -0.01 min
 Lab File: BF090211.D
 Acq: 23 Sep 2016 21:28

Tgt Ion:112 Resp: 713135
 Ion Ratio Lower Upper
 112 100
 64 55.7 39.8 59.6
 63 27.3 18.9 28.3





#7

Phenol-d6

Concen: 130.88 ng

RT: 6.16 min Scan# 400

Delta R.T. -0.01 min

Lab File: BF090211.D

Acq: 23 Sep 2016 21:28

Instrument :

BNA_F

ClientSampleId :

RICHMOND-REC-SELECTFILL-1

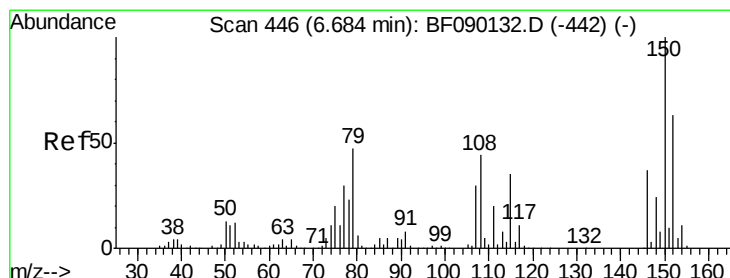
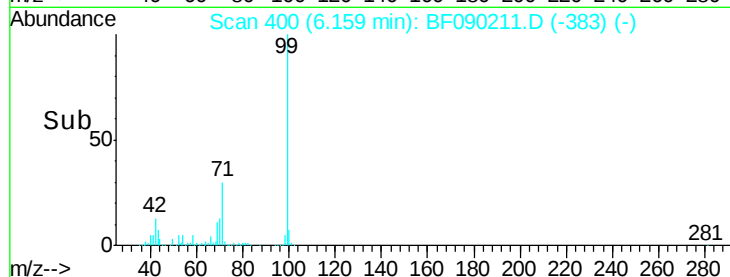
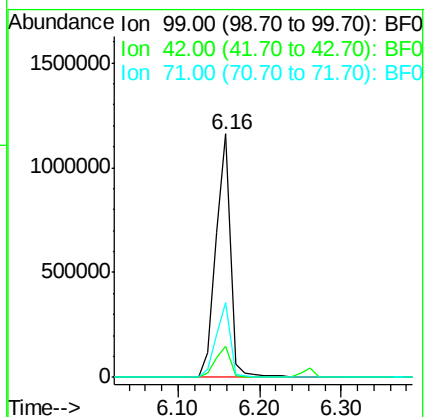
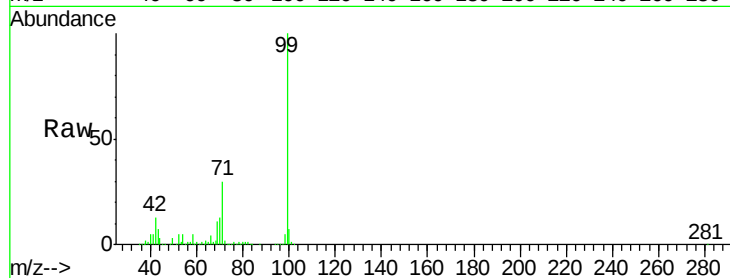
Tgt Ion: 99 Resp: 1445665

Ion Ratio Lower Upper

99 100

42 13.0 10.6 15.8

71 30.4 23.0 34.6



#15

Benzyl Alcohol

Concen: 2.23 ng

RT: 6.65 min Scan# 443

Delta R.T. -0.03 min

Lab File: BF090211.D

Acq: 23 Sep 2016 21:28

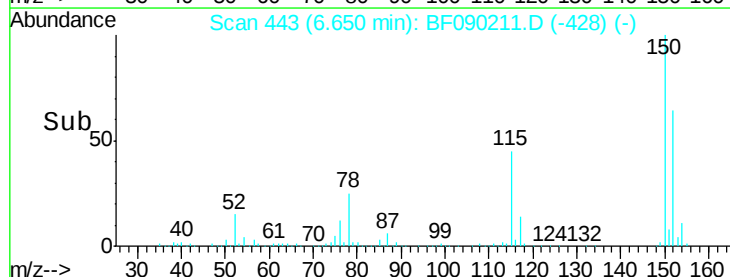
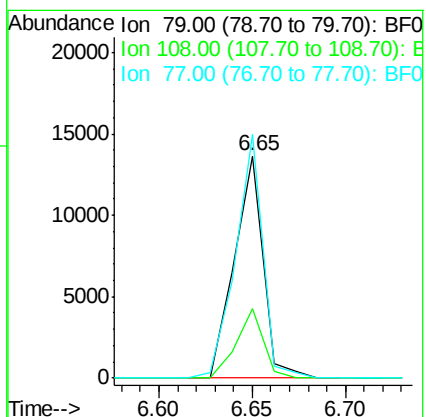
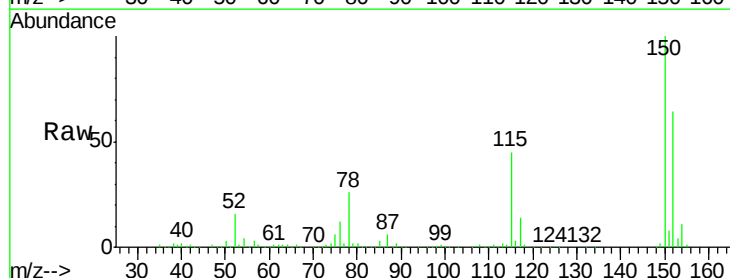
Tgt Ion: 79 Resp: 14678

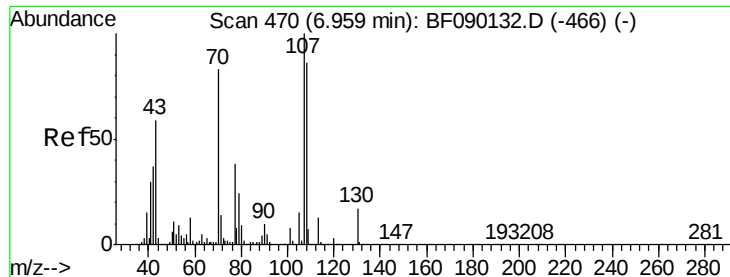
Ion Ratio Lower Upper

79 100

108 31.6 62.2 93.4#

77 109.7 51.4 77.0#





#19

n-Nitroso-di-n-propylamine

Concen: 16.48 ng

RT: 7.06 min Scan# 479

Delta R.T. 0.10 min

Lab File: BF090211.D

Acq: 23 Sep 2016 21:28

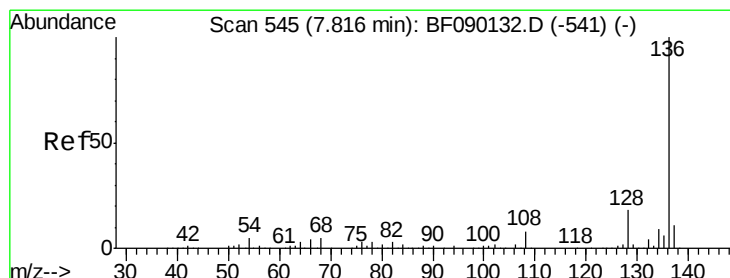
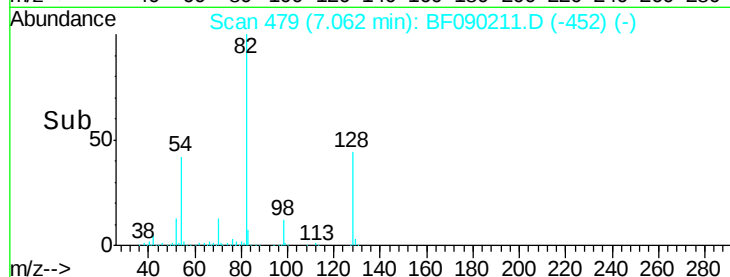
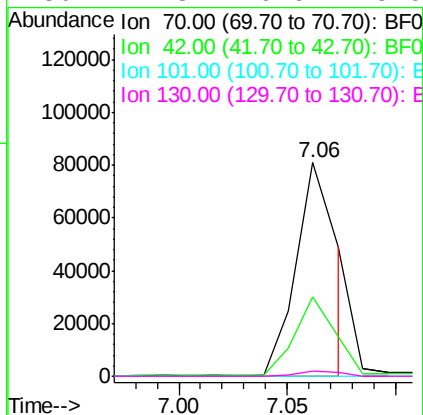
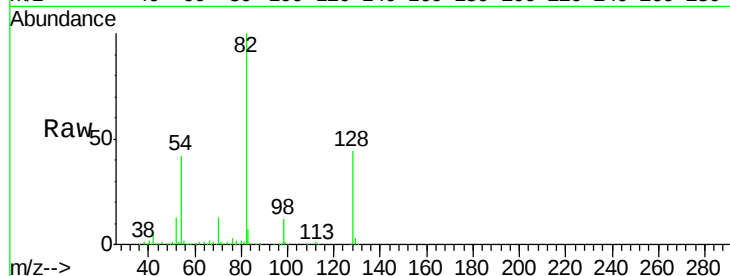
Instrument :

BNA_F

ClientSampleId :

RICHMOND-REC-SELECTFILL-1

Tgt Ion:	70	Resp:	106921
Ion	Ratio	Lower	Upper
70	100		
42	37.2	35.1	52.7
101	0.0	7.5	11.3#
130	2.3	16.6	25.0#



#21

Naphthalene-d8

Concen: 20.00 ng

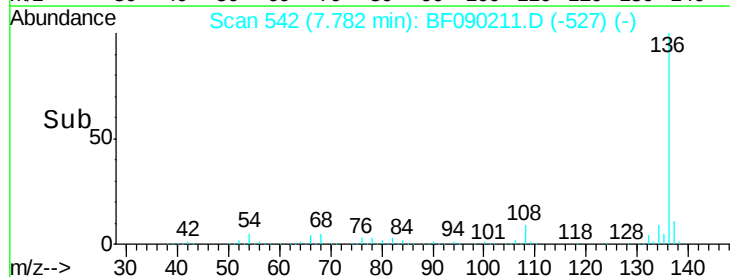
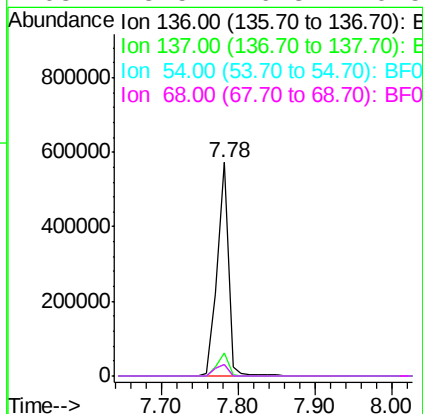
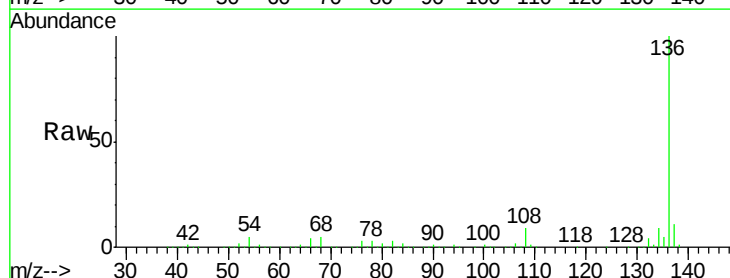
RT: 7.78 min Scan# 542

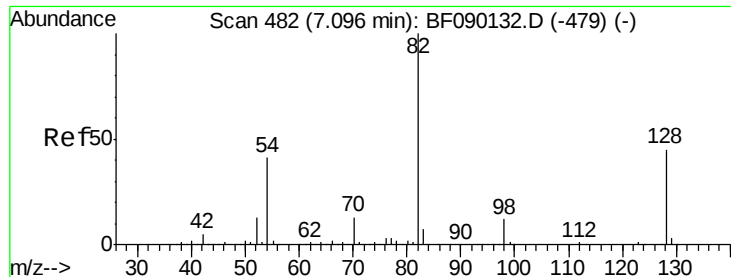
Delta R.T. -0.03 min

Lab File: BF090211.D

Acq: 23 Sep 2016 21:28

Tgt Ion:	136	Resp:	579960
Ion	Ratio	Lower	Upper
136	100		
137	10.8	9.0	13.4
54	5.3	6.4	9.6#
68	5.5	6.3	9.5#

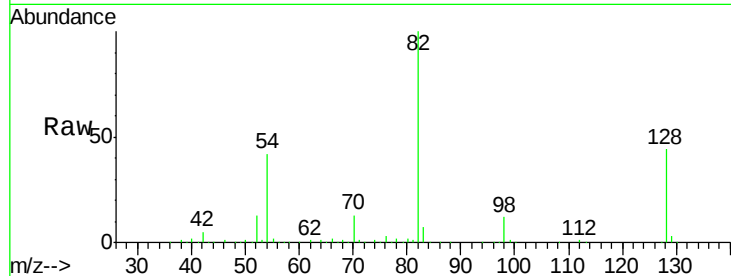




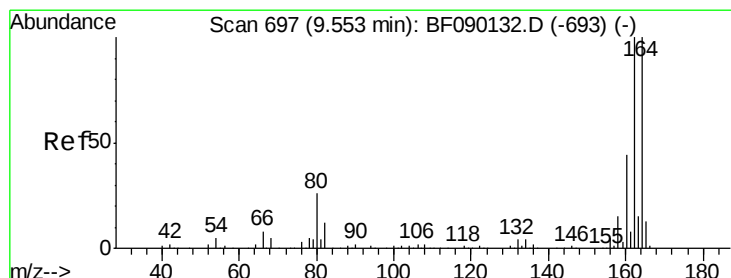
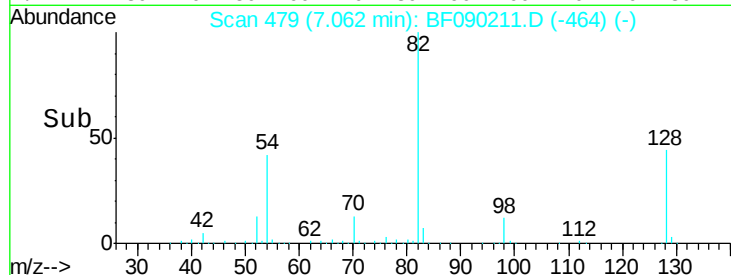
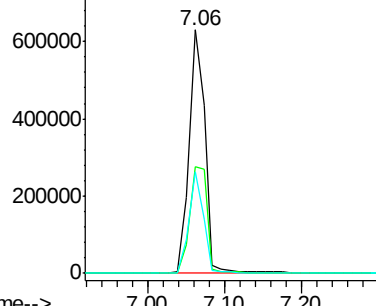
#23
 Nitrobenzene-d5
 Concen: 91.41 ng
 RT: 7.06 min Scan# 479
 Delta R.T. -0.03 min
 Lab File: BF090211.D
 Acq: 23 Sep 2016 21:28

Instrument :
 BNA_F
 ClientSampleId :
 RICHMOND-REC-SELECTFILL-1

Tgt Ion: 82 Resp: 914580
 Ion Ratio Lower Upper
 82 100
 128 43.8 37.5 56.3
 54 41.8 31.9 47.9

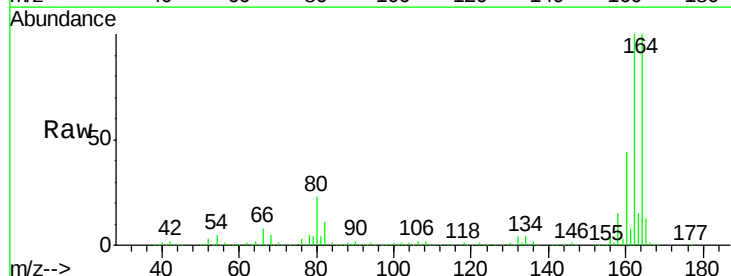


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): B
 Ion 54.00 (53.70 to 54.70): BF0

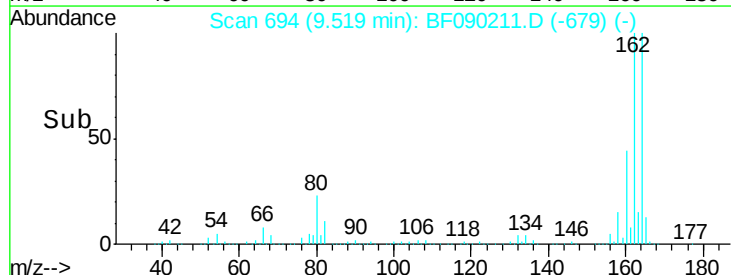
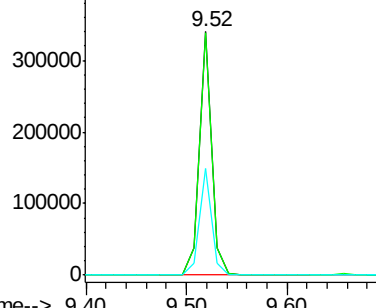


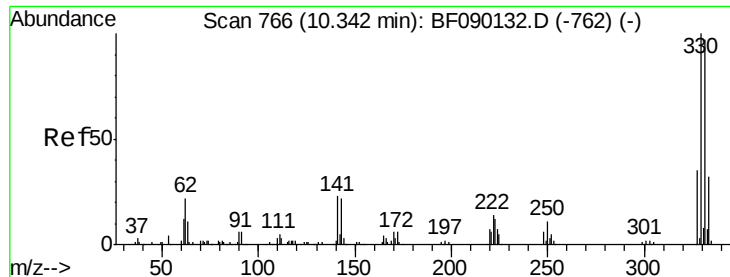
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.52 min Scan# 694
 Delta R.T. -0.03 min
 Lab File: BF090211.D
 Acq: 23 Sep 2016 21:28

Tgt Ion: 164 Resp: 289896
 Ion Ratio Lower Upper
 164 100
 162 99.6 81.4 122.2
 160 44.0 36.6 54.8



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

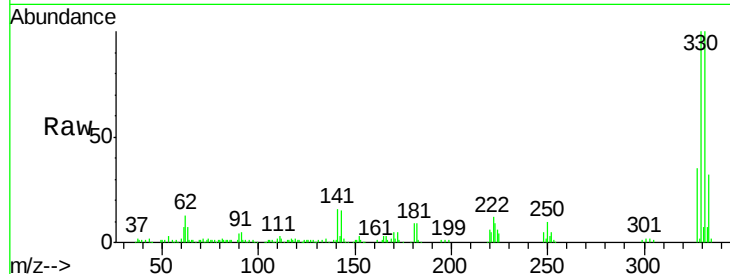




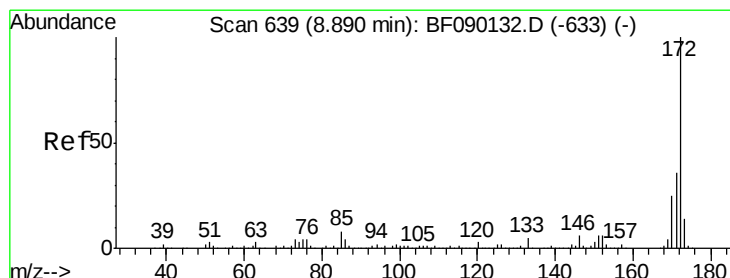
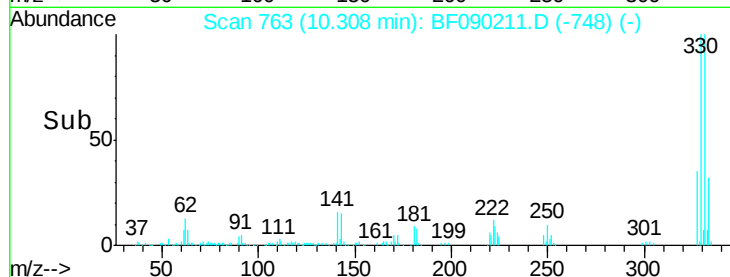
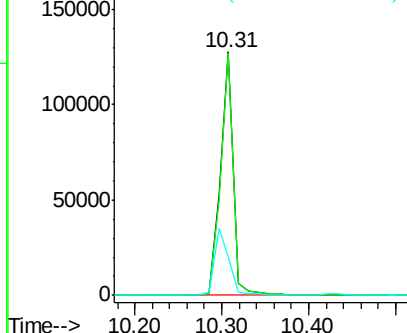
#41
 2,4,6-Tribromophenol
 Concen: 53.76 ng
 RT: 10.31 min Scan# 763
 Delta R.T. -0.03 min
 Lab File: BF090211.D
 Acq: 23 Sep 2016 21:28

Instrument :
 BNA_F
 ClientSampleId :
 RICHMOND-REC-SELECTFILL-1

Tgt Ion:330 Resp: 133706
 Ion Ratio Lower Upper
 330 100
 332 98.7 78.1 117.1
 141 32.0 23.9 35.9

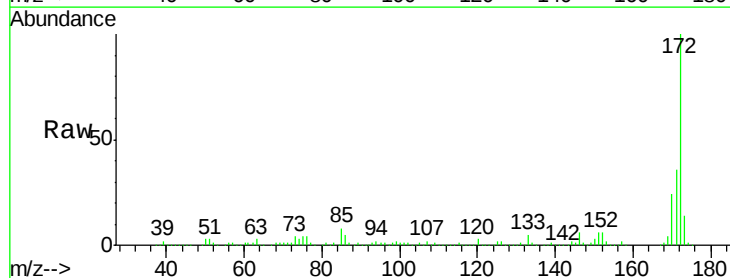


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

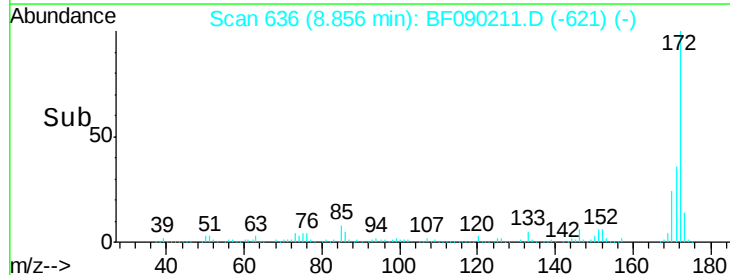
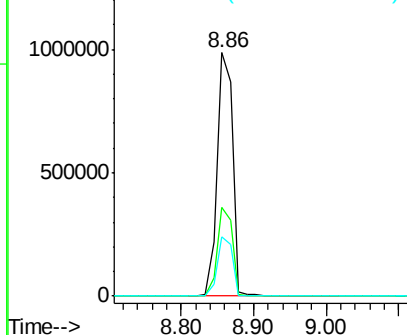


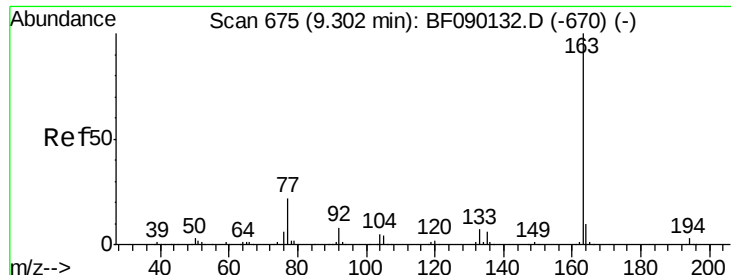
#44
 2-Fluorobiphenyl
 Concen: 98.72 ng
 RT: 8.86 min Scan# 636
 Delta R.T. -0.03 min
 Lab File: BF090211.D
 Acq: 23 Sep 2016 21:28

Tgt Ion:172 Resp: 1457751
 Ion Ratio Lower Upper
 172 100
 171 36.3 29.2 43.8
 170 24.4 19.8 29.8



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

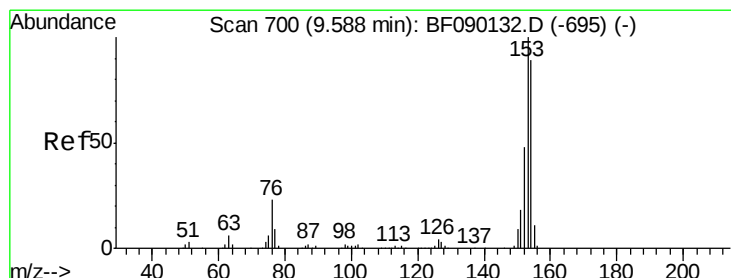
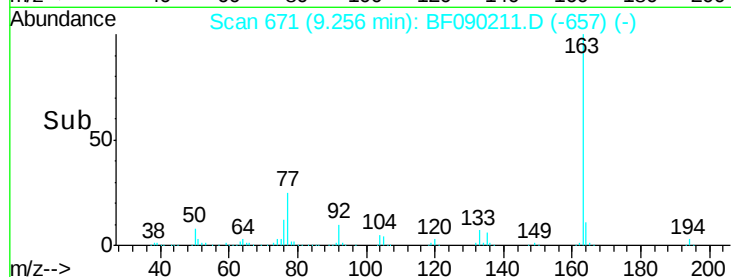
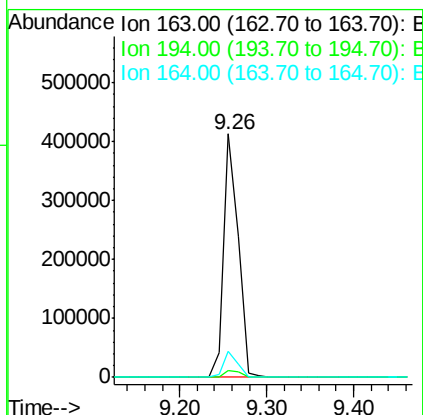
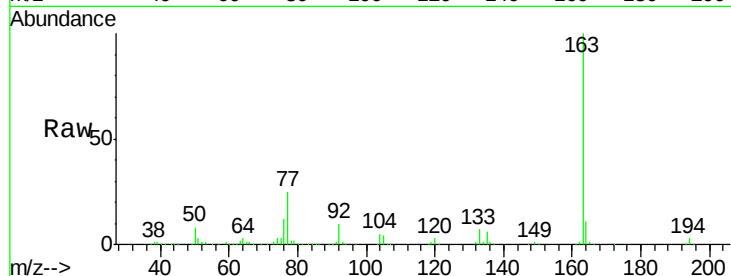




#49
Dimethylphthalate
Concen: 26.41 ng
RT: 9.26 min Scan# 671
Delta R.T. -0.05 min
Lab File: BF090211.D
Acq: 23 Sep 2016 21:28

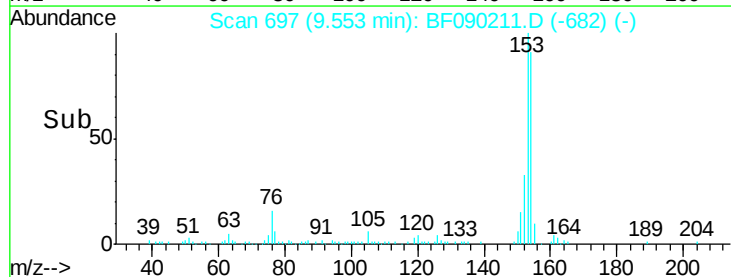
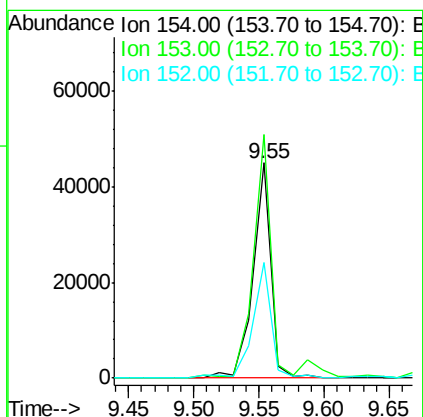
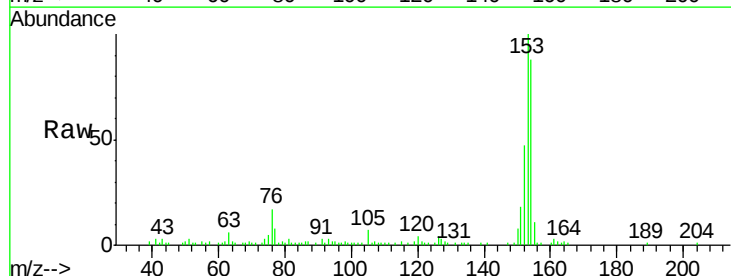
Instrument :
BNA_F
ClientSampleId :
RICHMOND-REC-SELECTFILL-1

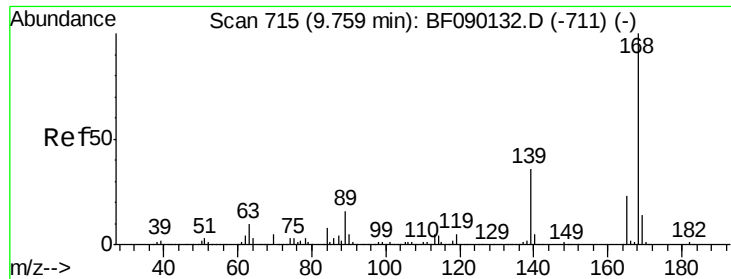
Tgt Ion:163 Resp: 487650
Ion Ratio Lower Upper
163 100
194 3.0 2.8 4.2
164 10.5 8.1 12.1



#51
Acenaphthene
Concen: 2.90 ng
RT: 9.55 min Scan# 697
Delta R.T. -0.03 min
Lab File: BF090211.D
Acq: 23 Sep 2016 21:28

Tgt Ion:154 Resp: 42810
Ion Ratio Lower Upper
154 100
153 113.1 90.8 136.2
152 53.5 44.2 66.4

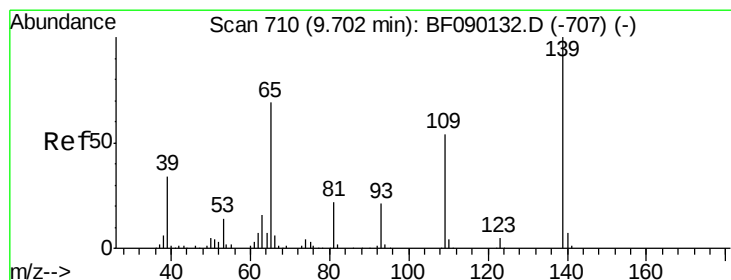
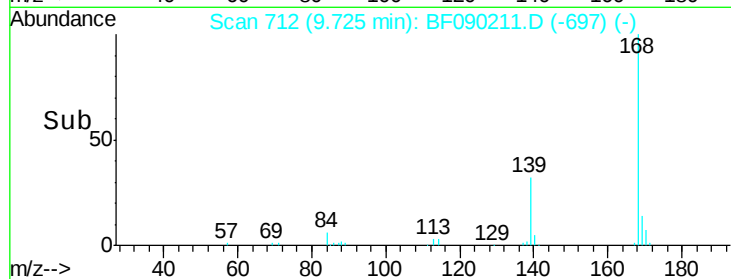
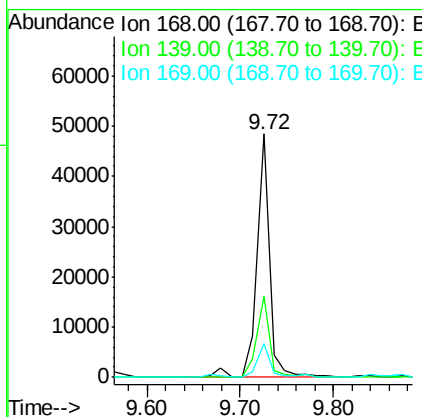
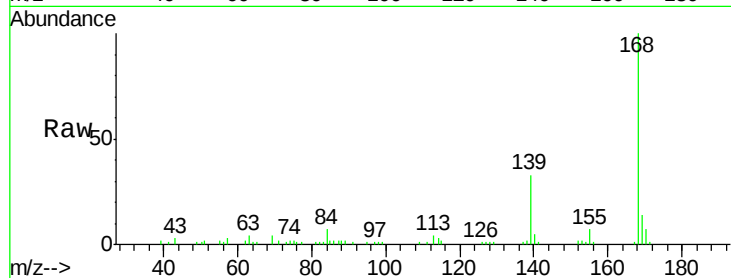




#54
Dibenzofuran
Concen: 2.36 ng
RT: 9.72 min Scan# 712
Delta R.T. -0.03 min
Lab File: BF090211.D
Acq: 23 Sep 2016 21:28

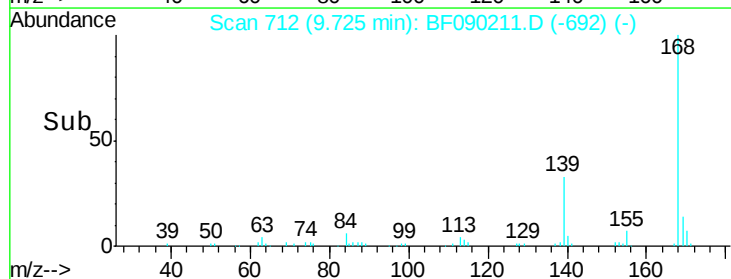
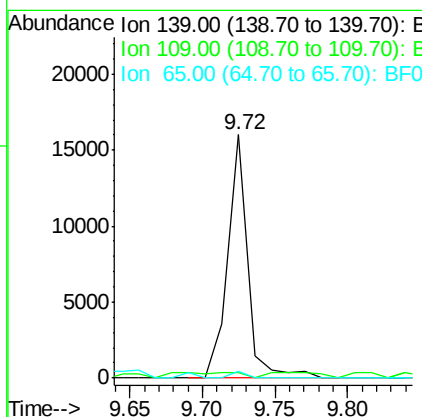
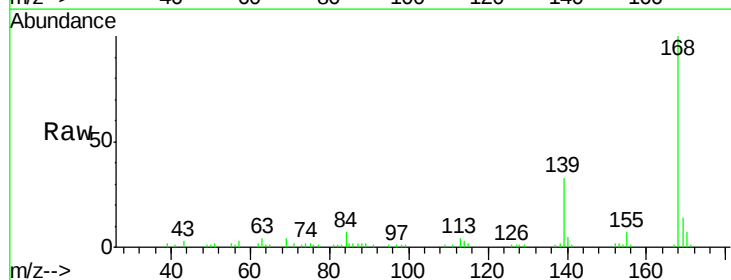
Instrument :
BNA_F
ClientSampleId :
RICHMOND-REC-SELECTFILL-1

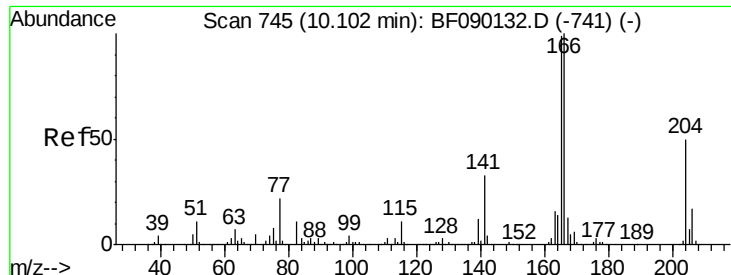
Tgt Ion:168 Resp: 45801
Ion Ratio Lower Upper
168 100
139 33.1 28.8 43.2
169 13.6 10.7 16.1



#55
4-Nitrophenol
Concen: 4.65 ng
RT: 9.72 min Scan# 712
Delta R.T. 0.02 min
Lab File: BF090211.D
Acq: 23 Sep 2016 21:28

Tgt Ion:139 Resp: 15364
Ion Ratio Lower Upper
139 100
109 2.1 35.6 75.6#
65 2.7 55.5 95.5#

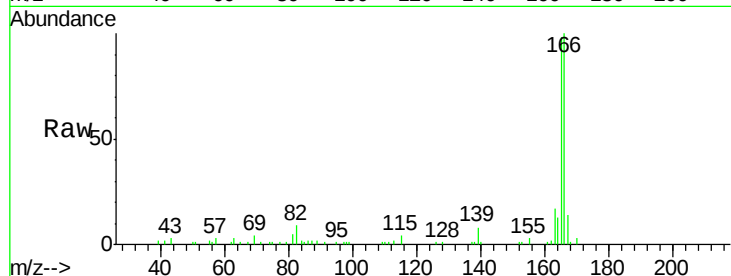




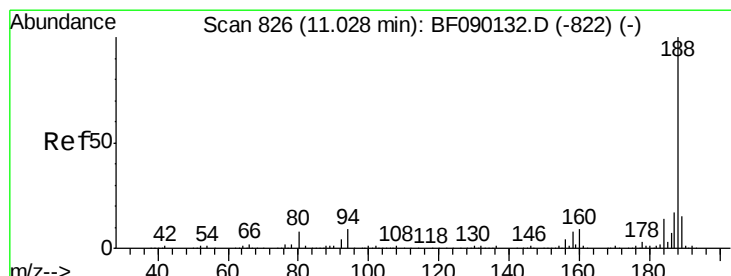
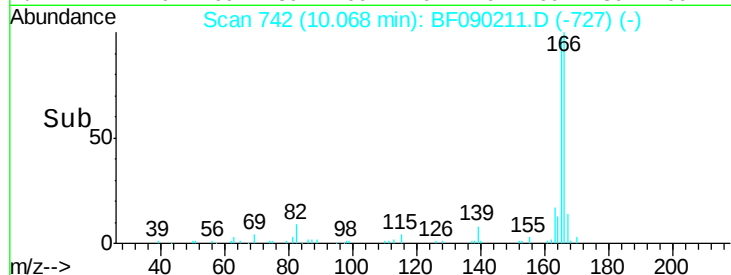
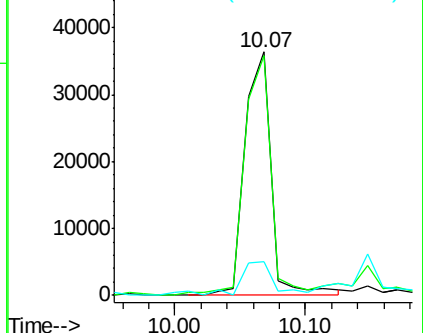
#57
 Fluorene
 Concen: 3.46 ng
 RT: 10.07 min Scan# 742
 Delta R.T. -0.03 min
 Lab File: BF090211.D
 Acq: 23 Sep 2016 21:28

Instrument :
 BNA_F
 ClientSampleId :
 RICHMOND-REC-SELECTFILL-1

Tgt Ion:166 Resp: 50684
 Ion Ratio Lower Upper
 166 100
 165 98.4 78.5 117.7
 167 13.8 11.2 16.8

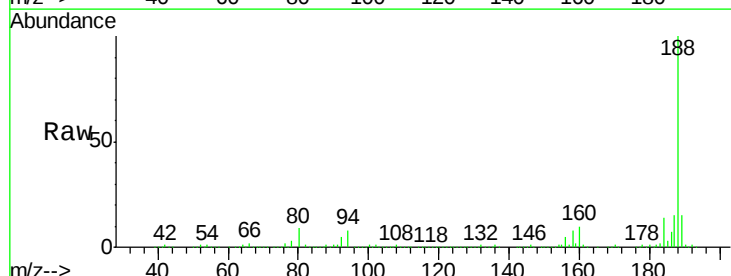


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

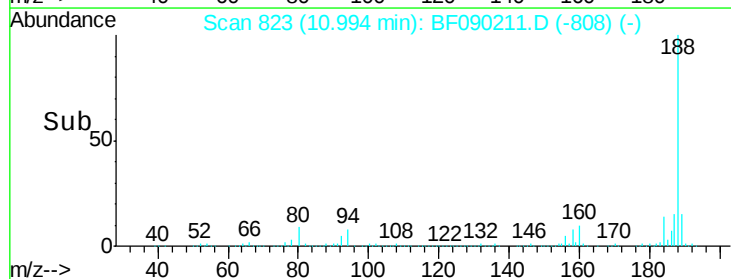
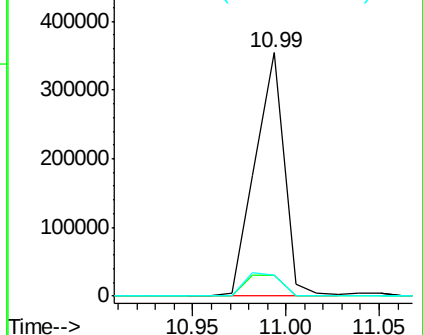


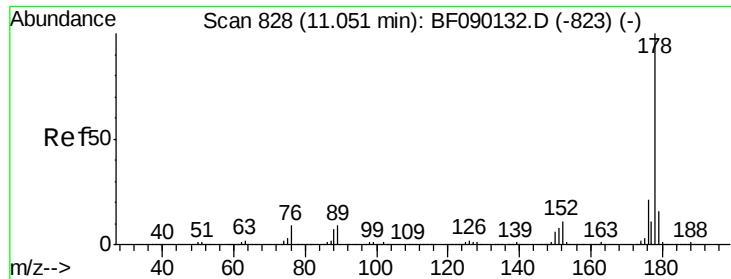
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 10.99 min Scan# 823
 Delta R.T. -0.03 min
 Lab File: BF090211.D
 Acq: 23 Sep 2016 21:28

Tgt Ion:188 Resp: 382650
 Ion Ratio Lower Upper
 188 100
 94 8.5 10.5 15.7#
 80 8.6 11.2 16.8#



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

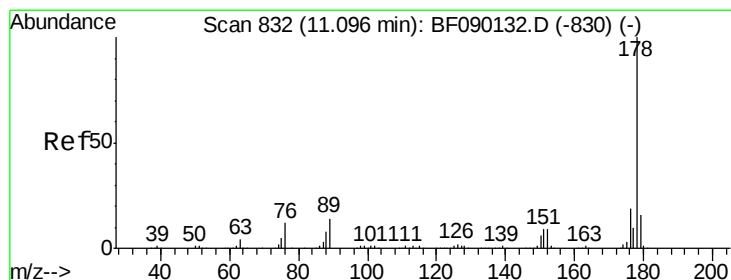
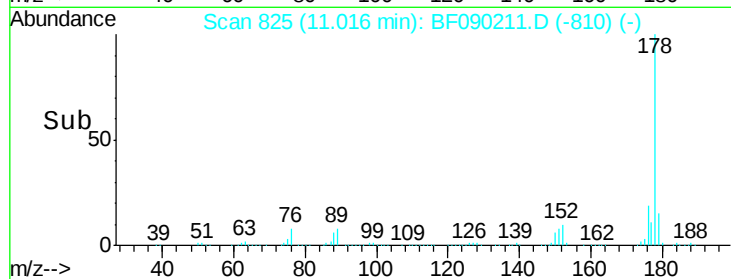
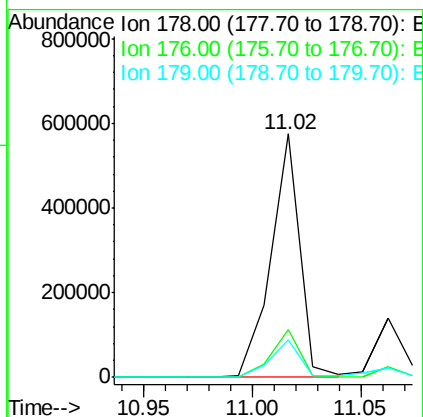
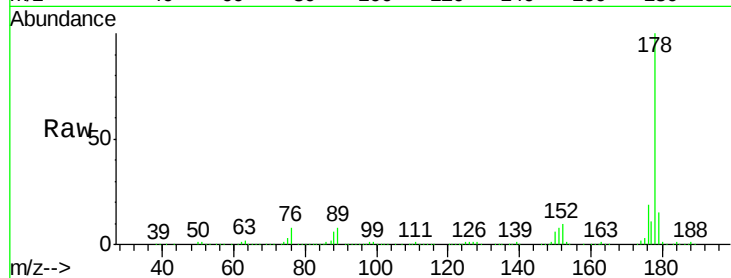




#70
Phenanthrene
Concen: 29.98 ng
RT: 11.02 min Scan# 825
Delta R.T. -0.03 min
Lab File: BF090211.D
Acq: 23 Sep 2016 21:28

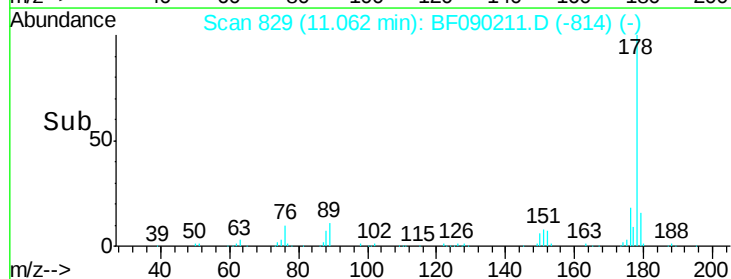
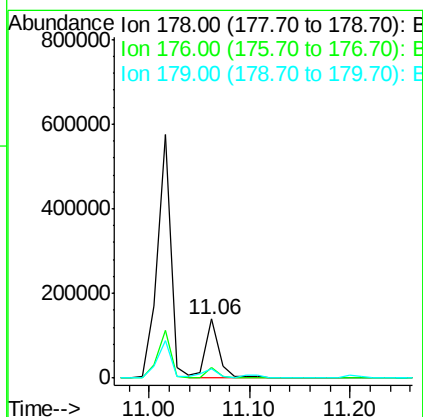
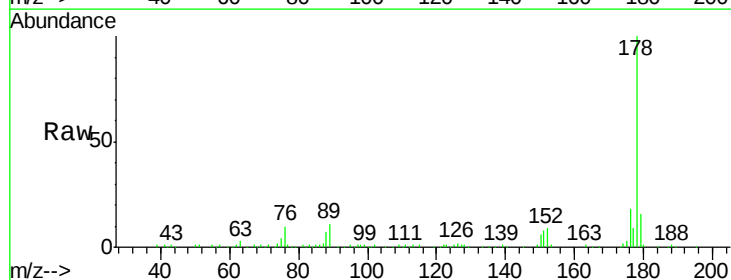
Instrument :
BNA_F
ClientSampleId :
RICHMOND-REC-SELECTFILL-1

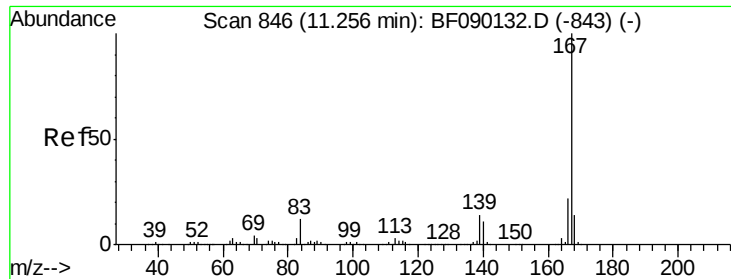
Tgt Ion:178 Resp: 536418
Ion Ratio Lower Upper
178 100
176 19.5 15.9 23.9
179 15.4 12.9 19.3



#71
Anthracene
Concen: 7.25 ng
RT: 11.06 min Scan# 829
Delta R.T. -0.03 min
Lab File: BF090211.D
Acq: 23 Sep 2016 21:28

Tgt Ion:178 Resp: 136157
Ion Ratio Lower Upper
178 100
176 18.0 15.8 23.6
179 15.9 12.6 19.0





#72

Carbazole

Concen: 2.40 ng

RT: 11.22 min Scan# 843

Delta R.T. -0.03 min

Lab File: BF090211.D

Acq: 23 Sep 2016 21:28

Instrument :

BNA_F

ClientSampleId :

RICHMOND-REC-SELECTFILL-1

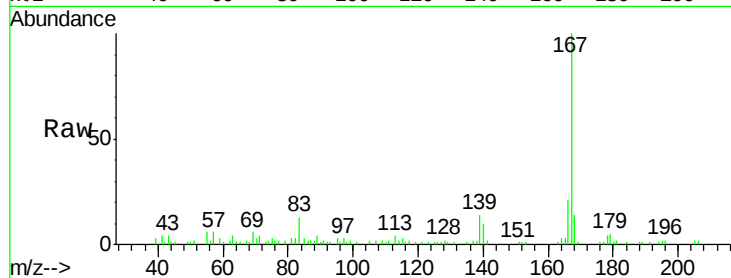
Tgt Ion:167 Resp: 47648

Ion Ratio Lower Upper

167 100

166 21.3 18.0 27.0

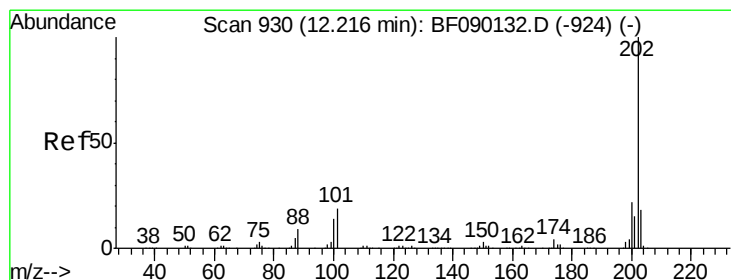
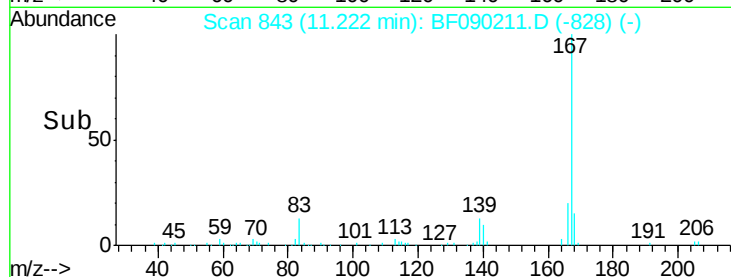
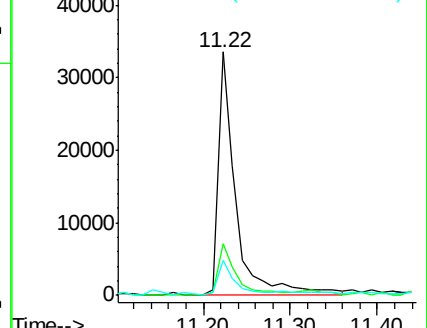
139 14.1 10.4 15.6



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: 24.71 ng

RT: 12.19 min Scan# 928

Delta R.T. -0.02 min

Lab File: BF090211.D

Acq: 23 Sep 2016 21:28

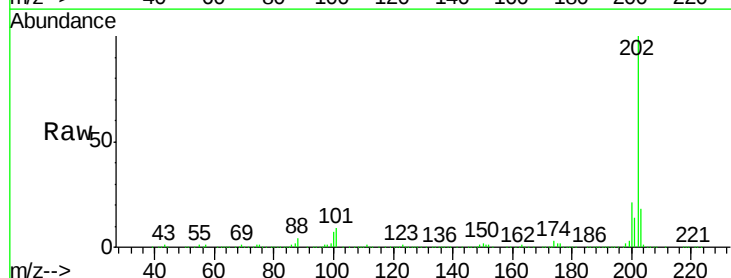
Tgt Ion:202 Resp: 474721

Ion Ratio Lower Upper

202 100

101 9.4 0.0 36.1

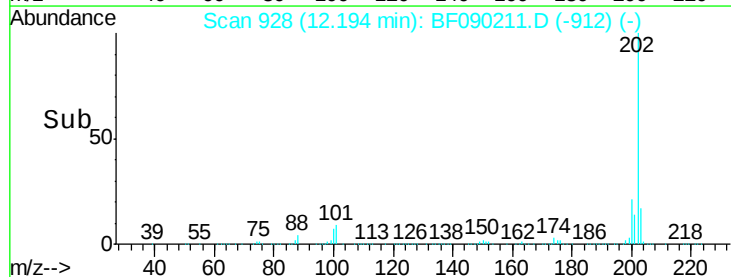
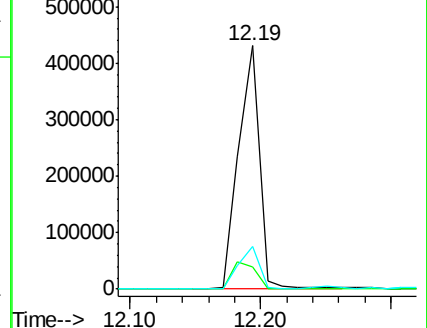
203 17.6 0.0 38.2

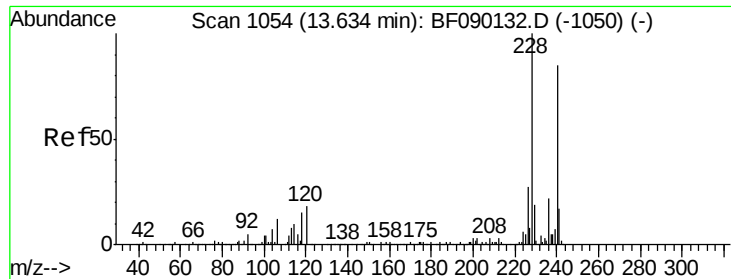


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.60 min Scan# 1051

Delta R.T. -0.03 min

Lab File: BF090211.D

Acq: 23 Sep 2016 21:28

Instrument :

BNA_F

ClientSampleId :

RICHMOND-REC-SELECTFILL-1

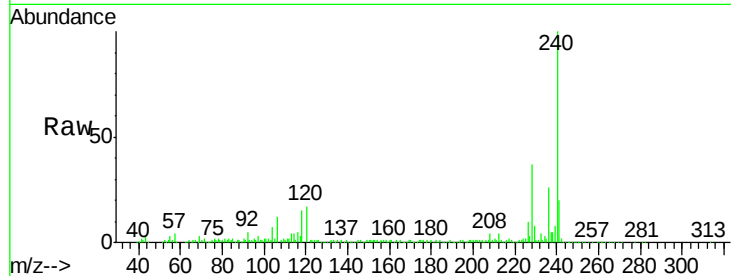
Tgt Ion:240 Resp: 259728

Ion Ratio Lower Upper

240 100

120 17.4 10.6 16.0#

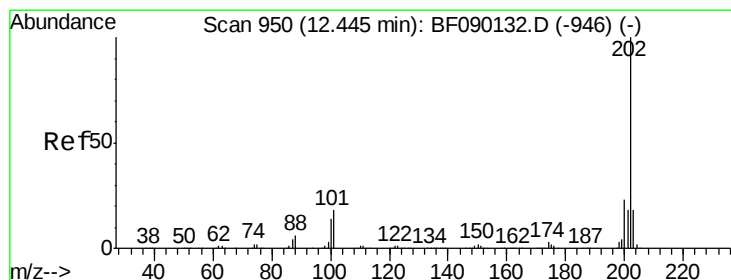
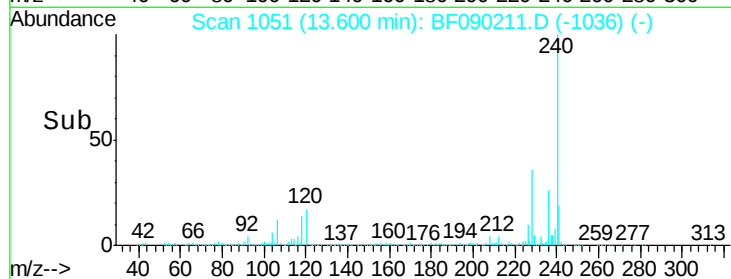
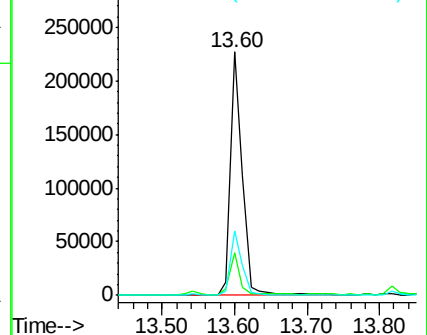
236 26.2 21.6 32.4



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: 21.50 ng

RT: 12.41 min Scan# 947

Delta R.T. -0.03 min

Lab File: BF090211.D

Acq: 23 Sep 2016 21:28

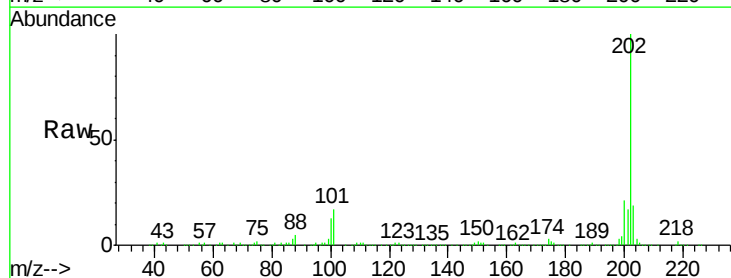
Tgt Ion:202 Resp: 382152

Ion Ratio Lower Upper

202 100

200 21.4 17.9 26.9

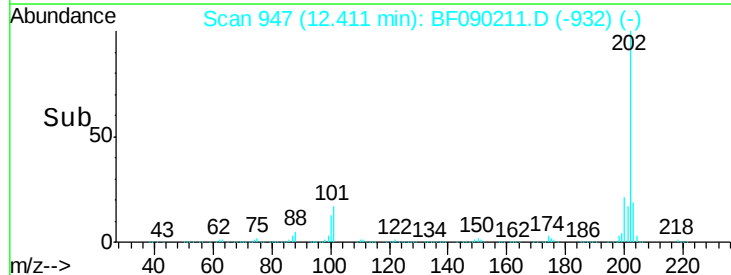
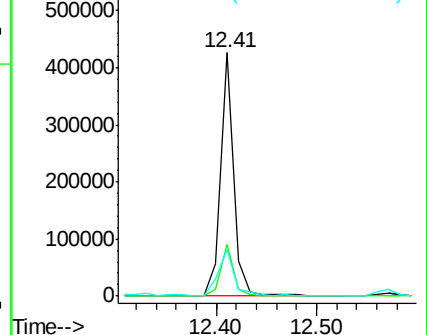
203 19.3 14.2 21.4

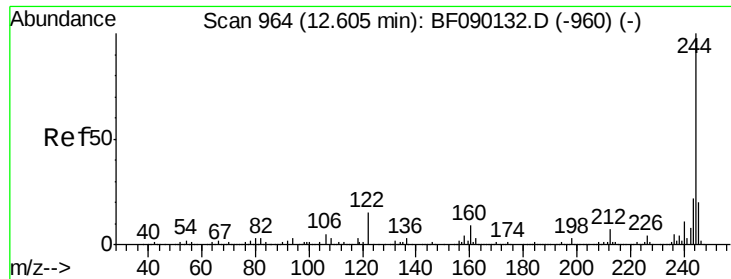


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

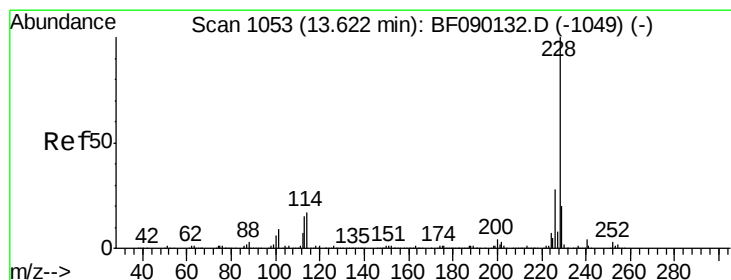
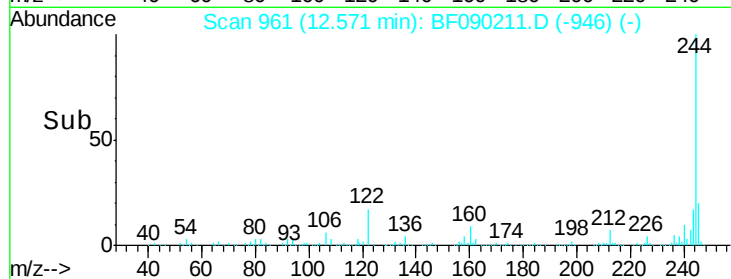
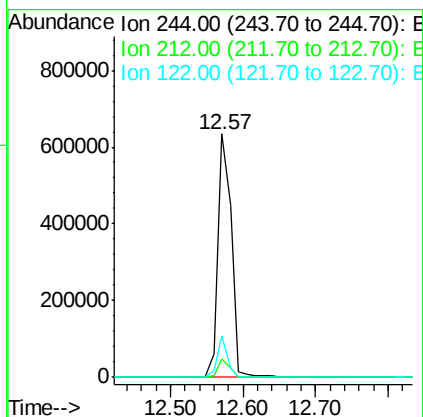
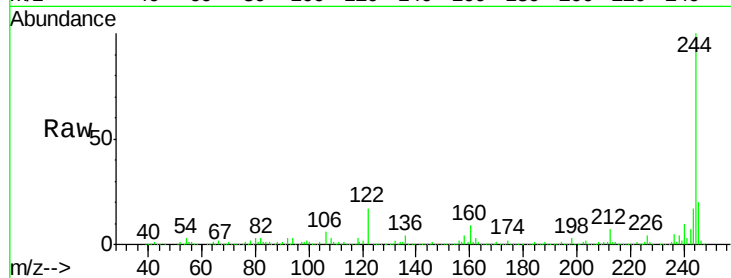




#78
 Terphenyl-d14
 Concen: 79.91 ng
 RT: 12.57 min Scan# 961
 Delta R.T. -0.03 min
 Lab File: BF090211.D
 Acq: 23 Sep 2016 21:28

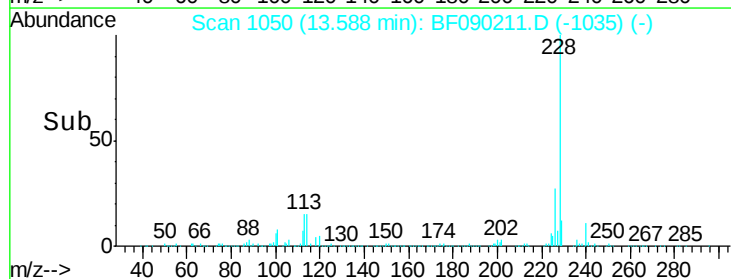
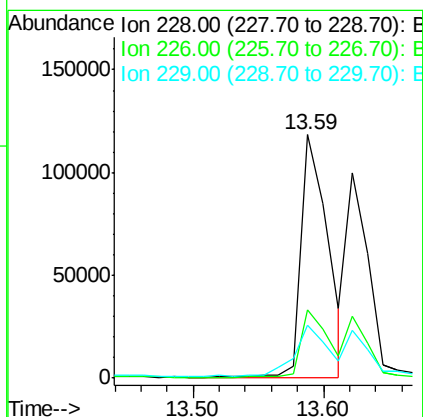
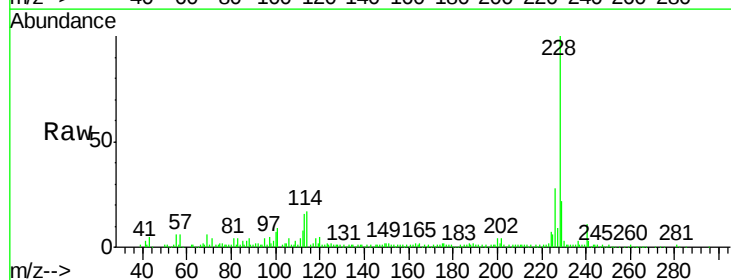
Instrument :
 BNA_F
 ClientSampleId :
 RICHMOND-REC-SELECTFILL-1

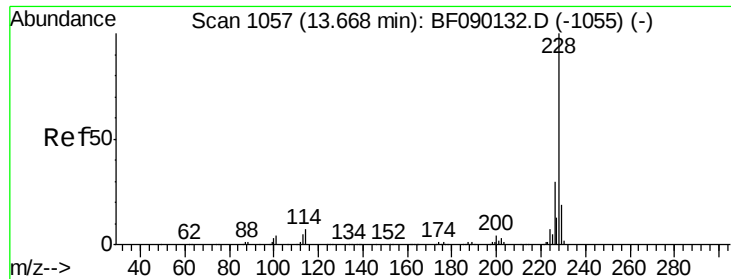
Tgt Ion:244 Resp: 817443
 Ion Ratio Lower Upper
 244 100
 212 7.4 5.8 8.8
 122 17.3 9.4 14.0#



#80
 Benzo(a)anthracene
 Concen: 11.96 ng
 RT: 13.59 min Scan# 1050
 Delta R.T. -0.03 min
 Lab File: BF090211.D
 Acq: 23 Sep 2016 21:28

Tgt Ion:228 Resp: 167185
 Ion Ratio Lower Upper
 228 100
 226 28.0 22.0 33.0
 229 21.8 16.2 24.2





#82

Chrysene

Concen: 12.28 ng

RT: 13.59 min Scan# 1050

Delta R.T. -0.08 min

Lab File: BF090211.D

Acq: 23 Sep 2016 21:28

Instrument :

BNA_F

ClientSampleId :

RICHMOND-REC-SELECTFILL-1

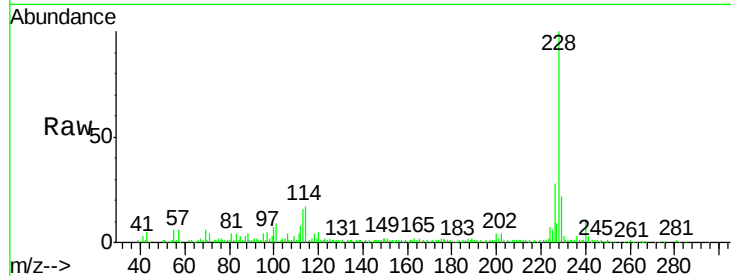
Tgt Ion:228 Resp: 167185

Ion Ratio Lower Upper

228 100

226 28.0 24.6 37.0

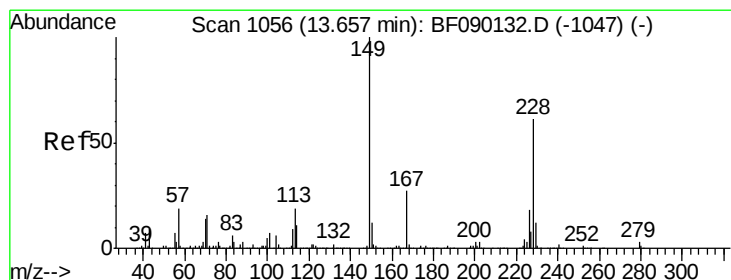
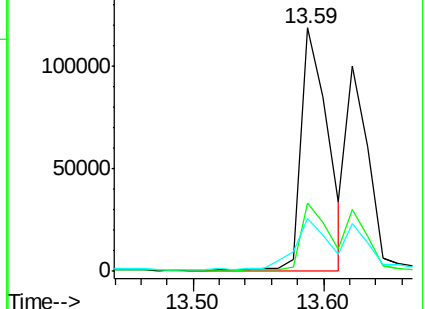
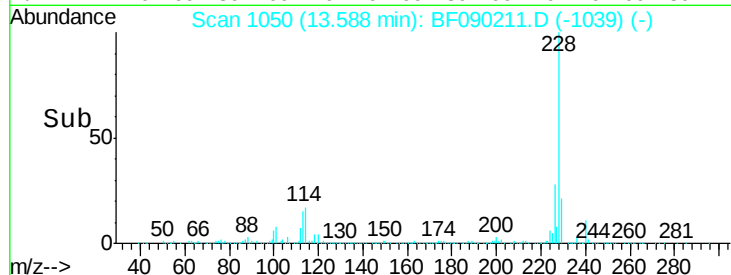
229 21.8 16.2 24.4



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



#83

Bis(2-ethylhexyl)phthalate

Concen: 59.47 ng

RT: 13.65 min Scan# 1055

Delta R.T. -0.01 min

Lab File: BF090211.D

Acq: 23 Sep 2016 21:28

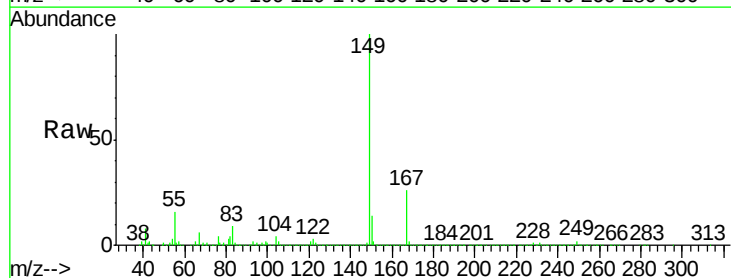
Tgt Ion:149 Resp: 661613

Ion Ratio Lower Upper

149 100

167 25.8 21.2 31.8

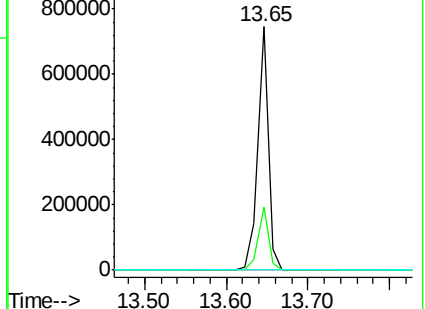
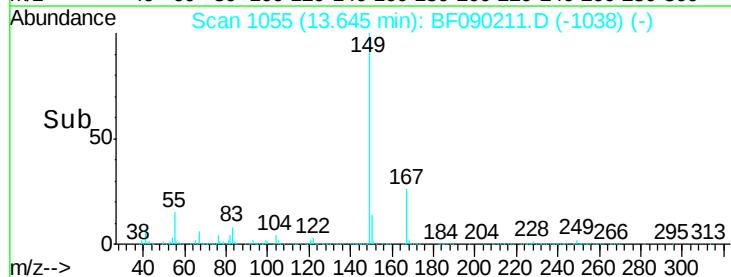
279 0.0 2.2 3.2#

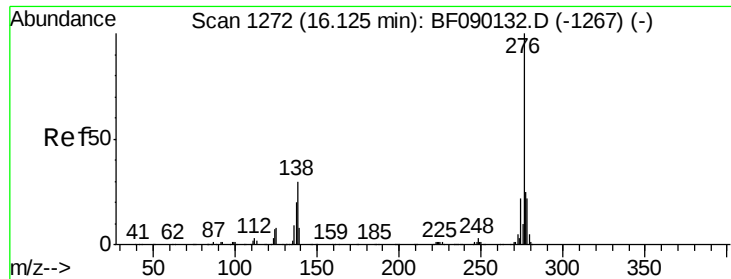


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

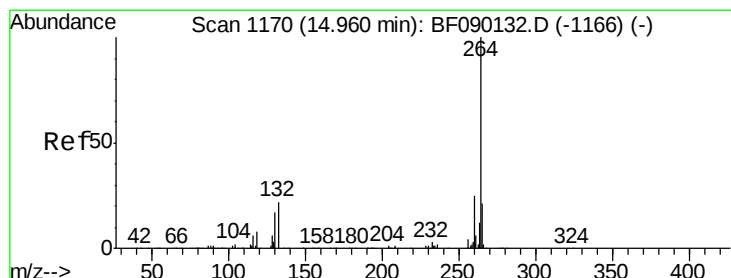
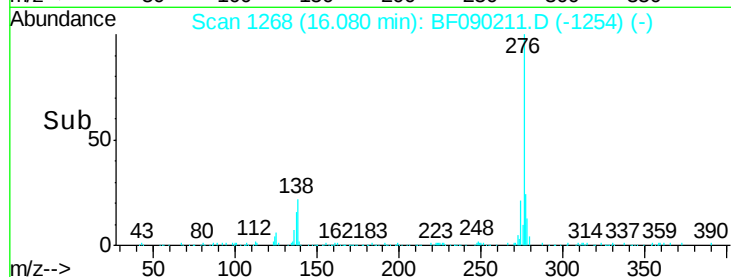
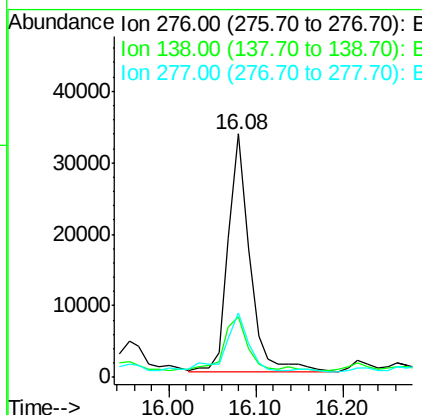
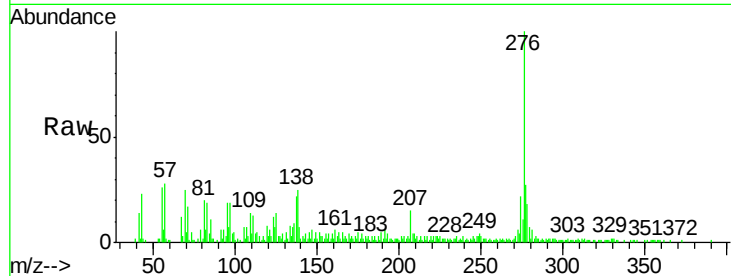




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 5.20 ng
 RT: 16.08 min Scan# 1268
 Delta R.T. -0.05 min
 Lab File: BF090211.D
 Acq: 23 Sep 2016 21:28

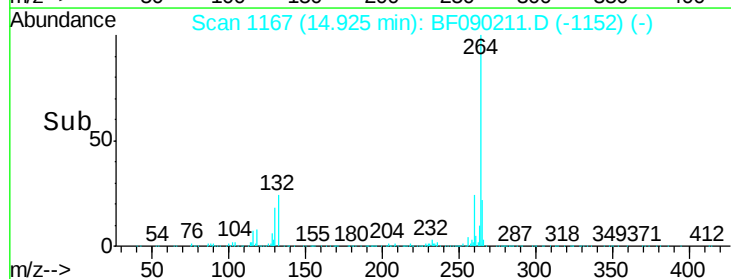
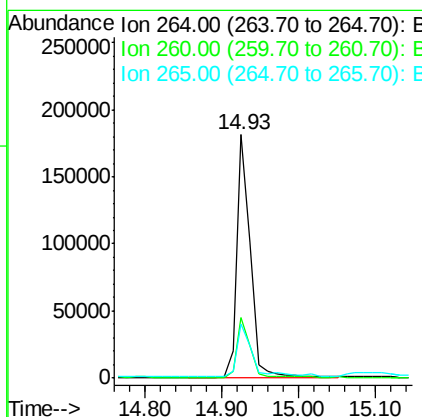
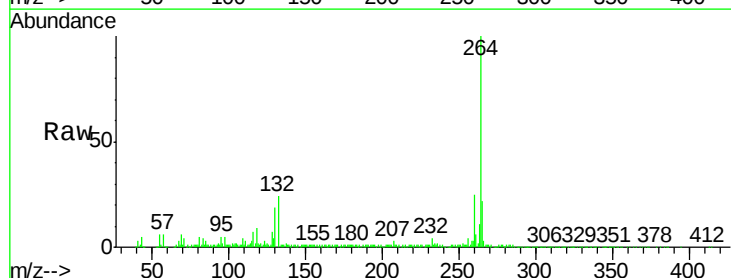
Instrument :
 BNA_F
 ClientSampleId :
 RICHMOND-REC-SELECTFILL-1

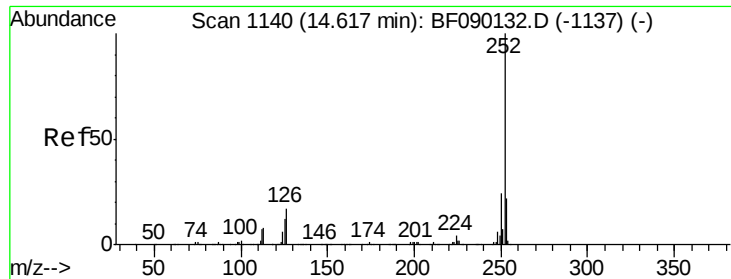
Tgt Ion:	276	Resp:	57204
Ion	Ratio	Lower	Upper
276	100		
138	27.7	25.9	38.9
277	26.4	19.9	29.9



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 14.93 min Scan# 1167
 Delta R.T. -0.03 min
 Lab File: BF090211.D
 Acq: 23 Sep 2016 21:28

Tgt Ion:	264	Resp:	224881
Ion	Ratio	Lower	Upper
264	100		
260	24.6	19.5	29.3
265	22.2	17.0	25.4





#87

Benzo(b)fluoranthene

Concen: 16.67 ng

RT: 14.58 min Scan# 1137

Delta R.T. -0.03 min

Lab File: BF090211.D

Acq: 23 Sep 2016 21:28

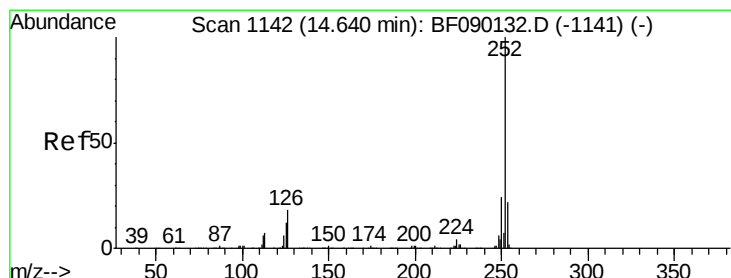
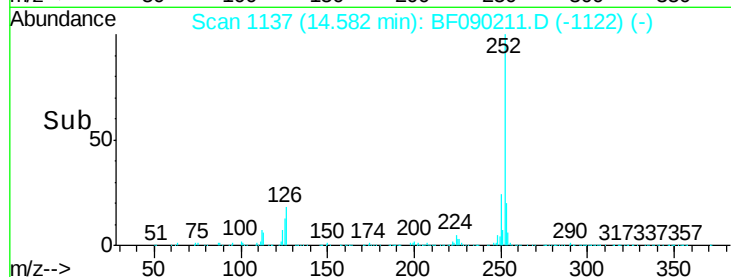
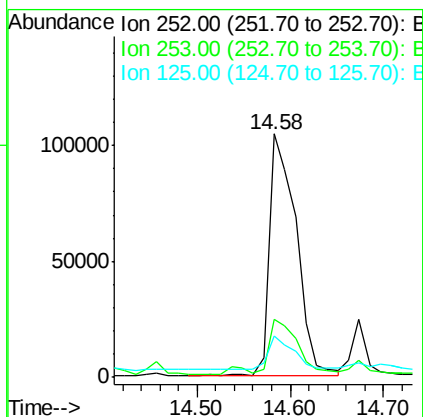
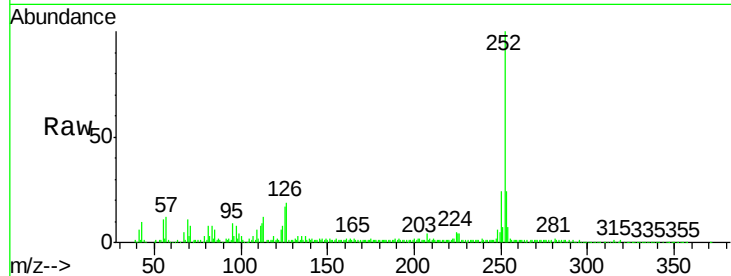
Instrument :

BNA_F

ClientSampleId :

RICHMOND-REC-SELECTFILL-1

Tgt Ion:	252	Resp:	207631
Ion Ratio	Lower	Upper	
252	100		
253	23.7	17.9	26.9
125	17.1	12.7	19.1



#88

Benzo(k)fluoranthene

Concen: 17.77 ng

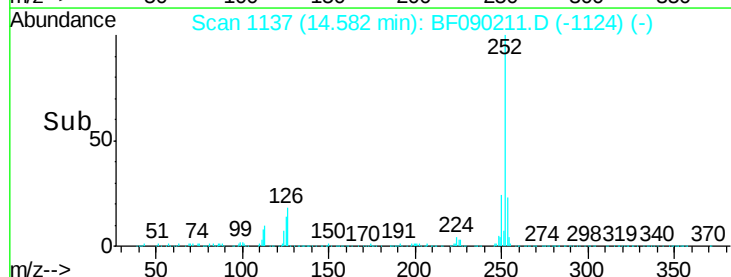
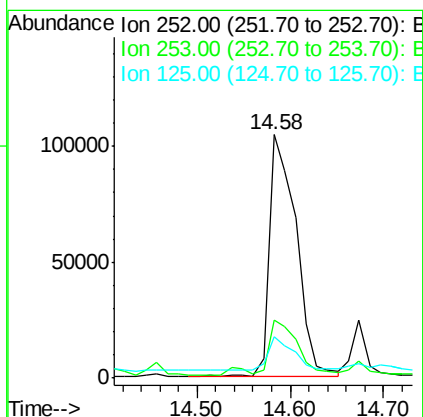
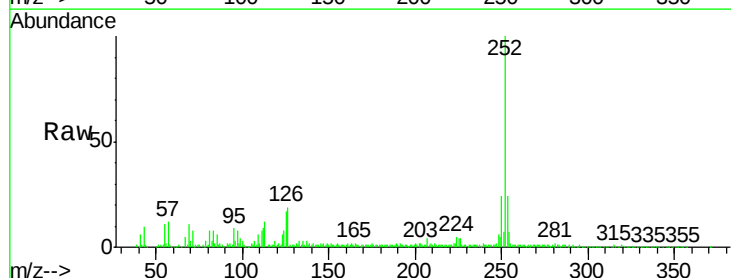
RT: 14.58 min Scan# 1137

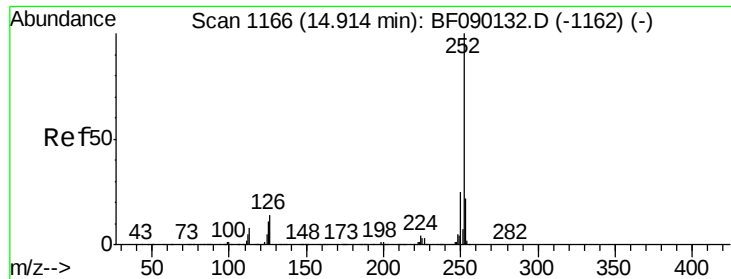
Delta R.T. -0.06 min

Lab File: BF090211.D

Acq: 23 Sep 2016 21:28

Tgt Ion:	252	Resp:	207631
Ion Ratio	Lower	Upper	
252	100		
253	23.7	17.8	26.8
125	17.1	7.8	11.6#

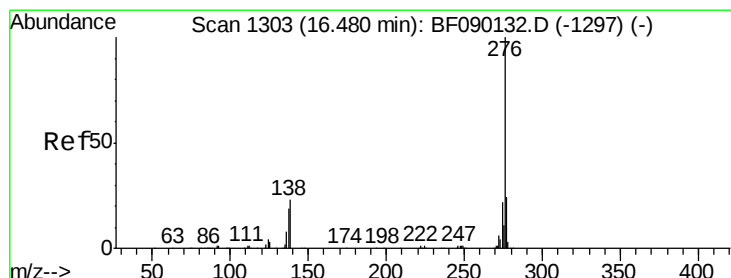
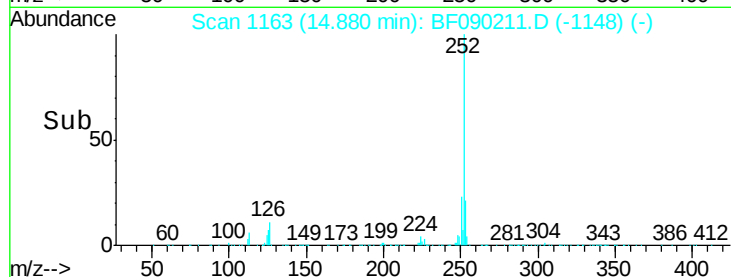
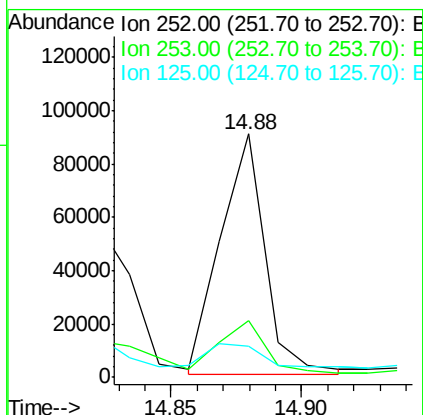
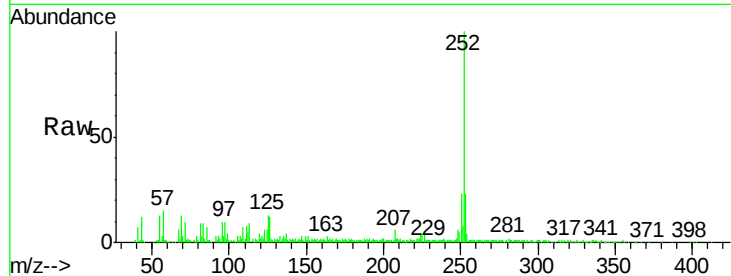




#89
Benzo(a)pyrene
Concen: 9.14 ng
RT: 14.88 min Scan# 1163
Delta R.T. -0.03 min
Lab File: BF090211.D
Acq: 23 Sep 2016 21:28

Instrument :
BNA_F
ClientSampleId :
RICHMOND-REC-SELECTFILL-1

Tgt Ion: 252 Resp: 107086
Ion Ratio Lower Upper
252 100
253 23.1 17.4 26.0
125 12.6 7.7 11.5#



#91
Benzo(g,h,i)perylene
Concen: 5.68 ng
RT: 16.42 min Scan# 1298
Delta R.T. -0.06 min
Lab File: BF090211.D
Acq: 23 Sep 2016 21:28

Tgt Ion: 276 Resp: 50811
Ion Ratio Lower Upper
276 100
277 27.5 18.9 28.3
138 26.4 23.3 34.9

