

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092116\
 Data File : BF090172.D
 Acq On : 21 Sep 2016 21:15
 Operator : UM/SJ
 Sample : H4856-04
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 BH-4-0.5-4FT

Quant Time: Sep 22 07:32:02 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

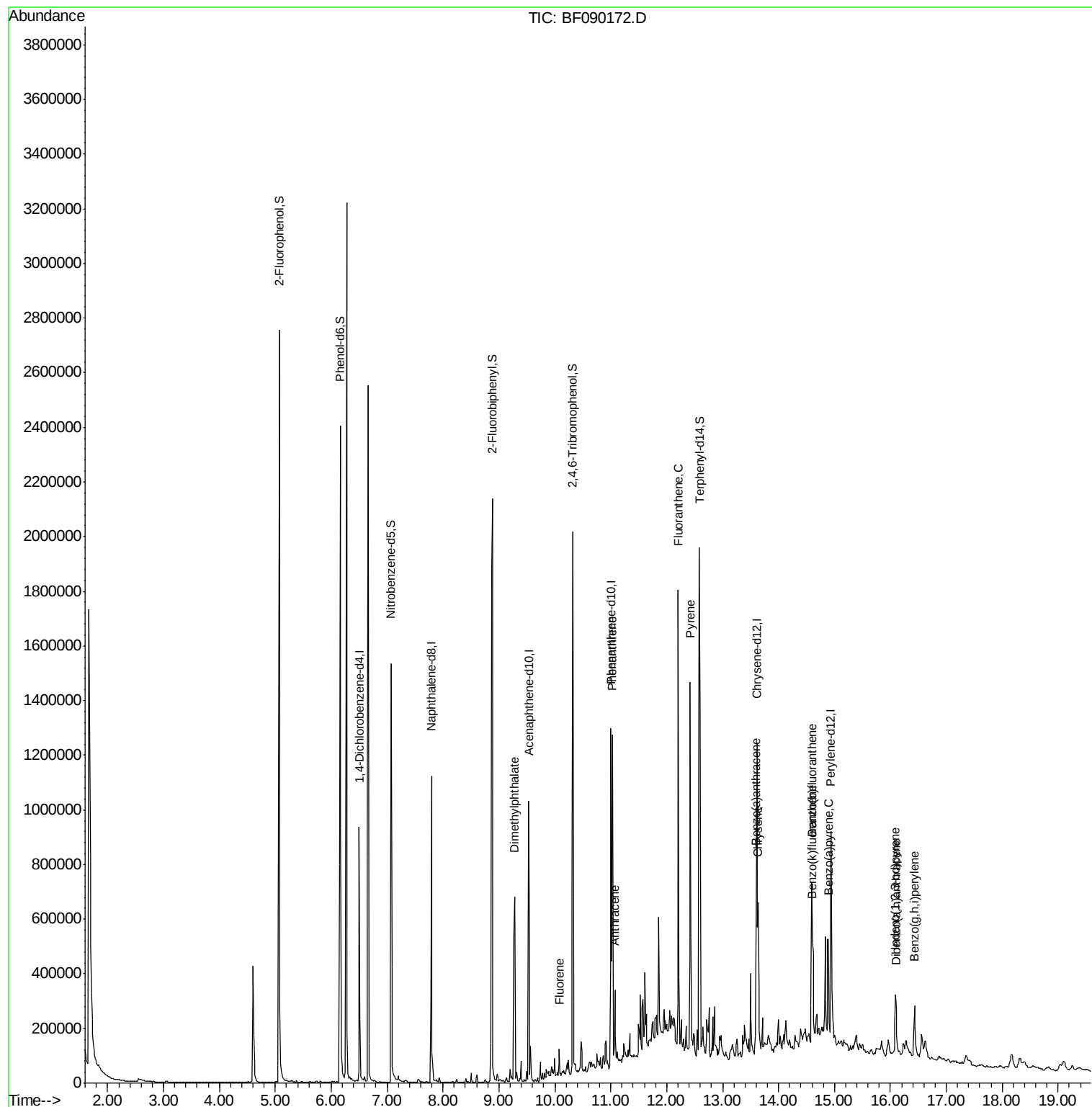
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.50	152	151314	20.00	ng	-0.02
21) Naphthalene-d8	7.79	136	541453	20.00	ng	-0.02
38) Acenaphthene-d10	9.53	164	264323	20.00	ng	-0.02
63) Phenanthrene-d10	11.01	188	477414	20.00	ng	-0.02
75) Chrysene-d12	13.61	240	299141	20.00	ng	-0.02
86) Perylene-d12	14.94	264	305058	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.07	112	1031899	111.16	ng	0.00
7) Phenol-d6	6.16	99	1275152	111.23	ng	-0.01
23) Nitrobenzene-d5	7.07	82	639063	68.42	ng	-0.02
41) 2,4,6-Tribromophenol	10.32	330	259945	114.63	ng	-0.02
44) 2-Fluorobiphenyl	8.88	172	1073349	79.72	ng	-0.01
78) Terphenyl-d14	12.58	244	788008	66.88	ng	-0.02
Target Compounds						Qvalue
49) Dimethylphthalate	9.28	163	435632	25.88	ng	99
57) Fluorene	10.08	166	31260	2.34	ng	98
70) Phenanthrene	11.03	178	452235	20.25	ng	99
71) Anthracene	11.07	178	132687	5.67	ng	99
74) Fluoranthene	12.21	202	608957	25.41	ng	98
77) Pyrene	12.42	202	554416	27.08	ng	96
80) Benzo(a)anthracene	13.60	228	266322	16.55	ng	94
82) Chrysene	13.63	228	202108m	12.89	ng	
85) Indeno(1,2,3-cd)pyrene	16.09	276	145478	11.48	ng	# 90
87) Benzo(b)fluoranthene	14.59	252	270065m	15.99	ng	
88) Benzo(k)fluoranthene	14.61	252	118201m	7.46	ng	
89) Benzo(a)pyrene	14.89	252	222505	14.00	ng	99
90) Dibenzo(a,h)anthracene	16.10	278	29760m	2.40	ng	
91) Benzo(g,h,i)perylene	16.43	276	134395	11.07	ng	96

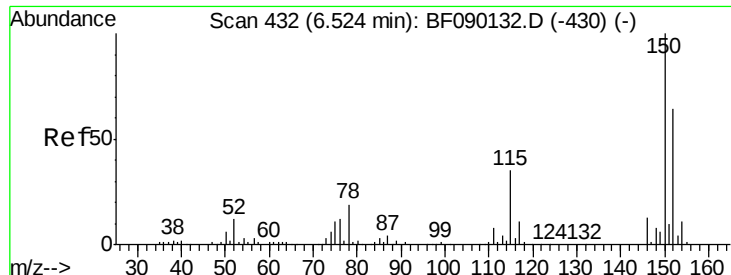
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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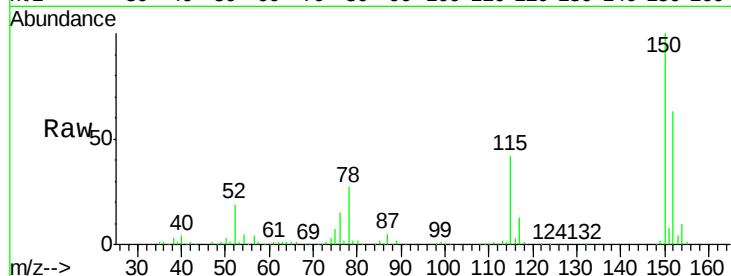


#1

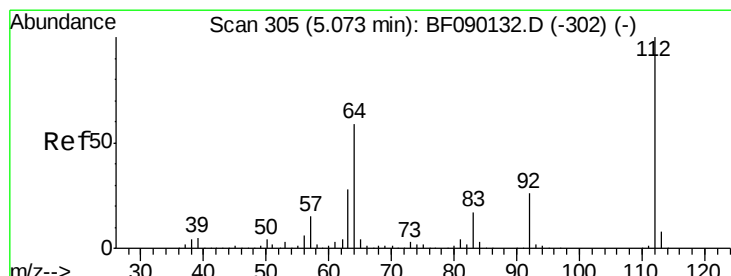
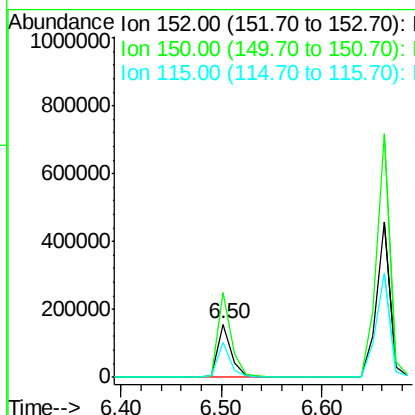
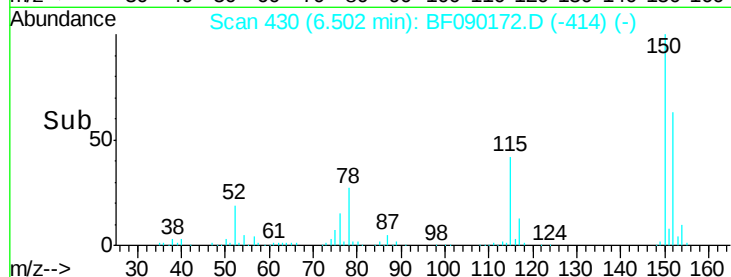
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.50 min Scan# 430
Delta R.T. -0.02 min
Lab File: BF090172.D
Acq: 21 Sep 2016 21:15

Instrument :
BNA_F
ClientSampleId :
BH-4-0.5-4FT

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.9	128.9	193.3
115	66.3	55.5	83.3



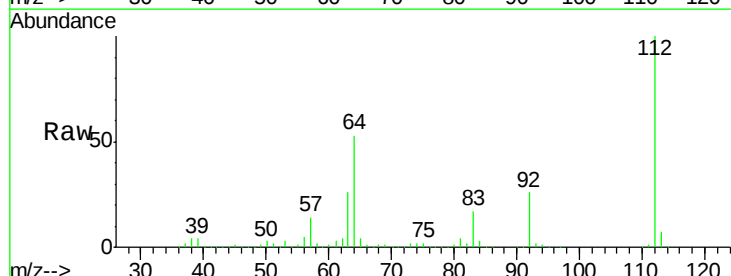
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



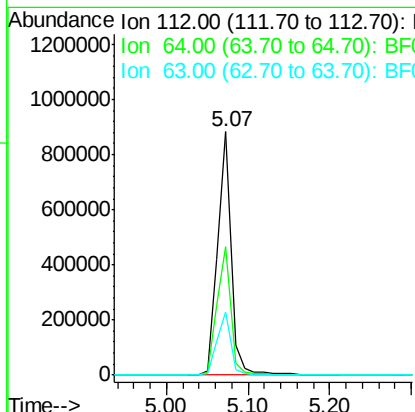
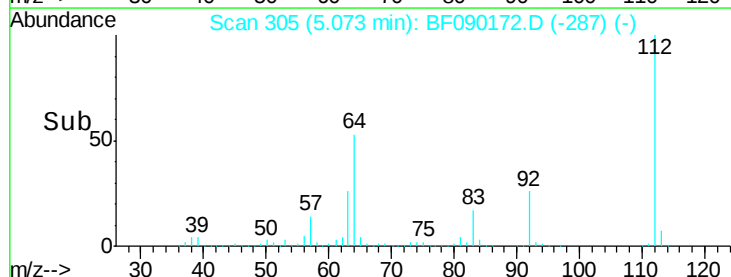
#5

2-Fluorophenol
Concen: 111.16 ng
RT: 5.07 min Scan# 305
Delta R.T. 0.00 min
Lab File: BF090172.D
Acq: 21 Sep 2016 21:15

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.7	39.8	59.6
63	26.0	18.9	28.3



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: 111.23 ng

RT: 6.16 min Scan# 400

Delta R.T. -0.01 min

Lab File: BF090172.D

Acq: 21 Sep 2016 21:15

Instrument :

BNA_F

ClientSampleId :

BH-4-0.5-4FT

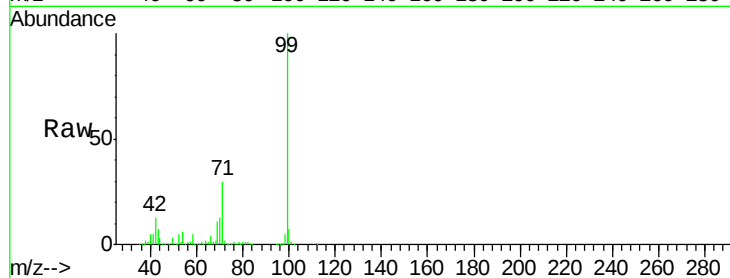
Tot Ion: 99 Resp: 1275152

Ion Ratio Lower Upper

99 100

42 13.3 10.6 15.8

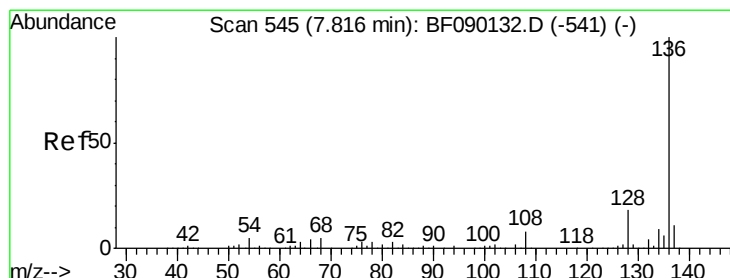
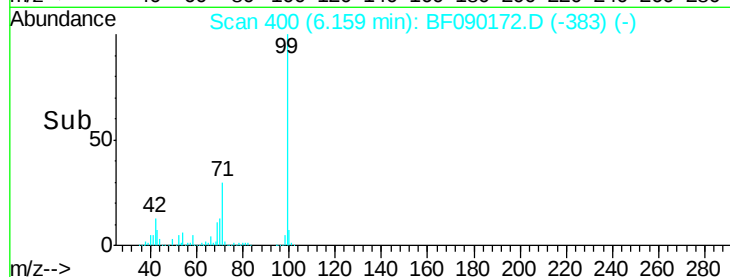
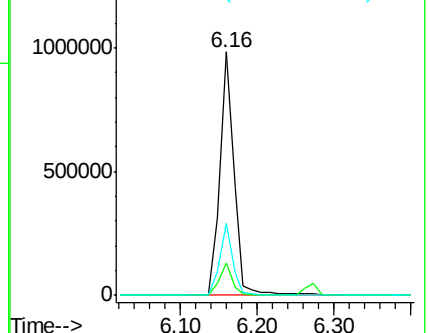
71 29.8 23.0 34.6



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.79 min Scan# 543

Delta R.T. -0.02 min

Lab File: BF090172.D

Acq: 21 Sep 2016 21:15

Tgt Ion: 136 Resp: 541453

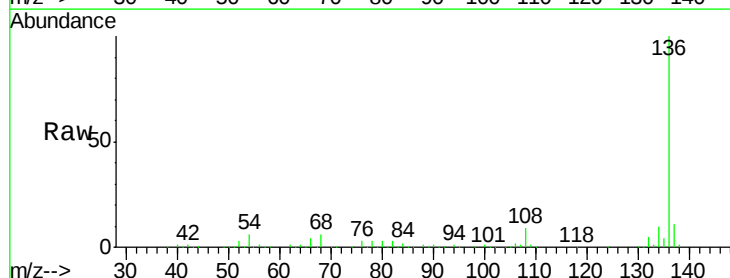
Ion Ratio Lower Upper

136 100

137 11.1 9.0 13.4

54 6.3 6.4 9.6#

68 6.2 6.3 9.5#

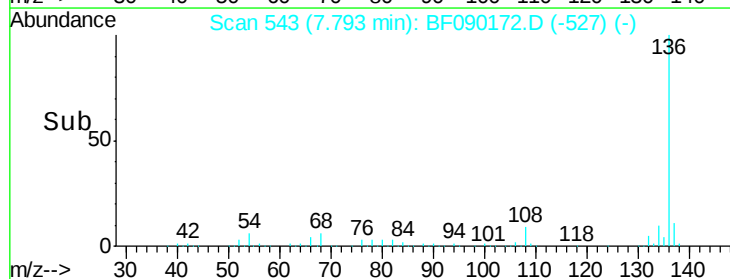
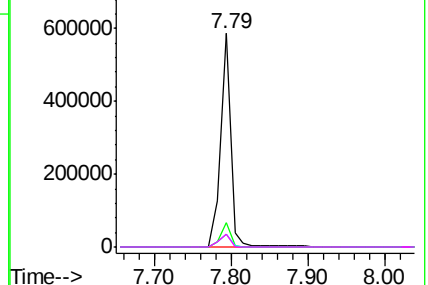


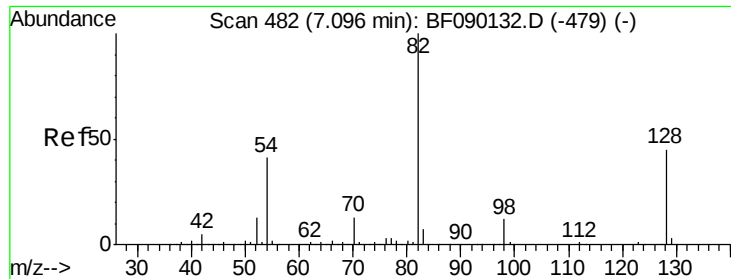
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

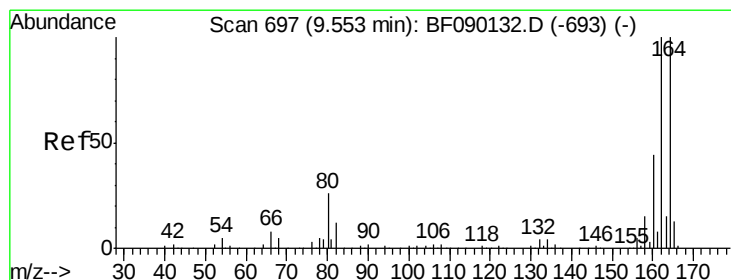
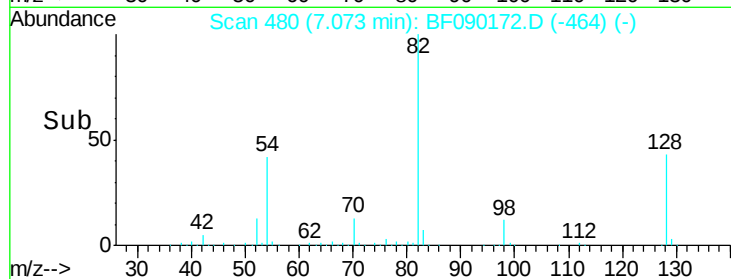
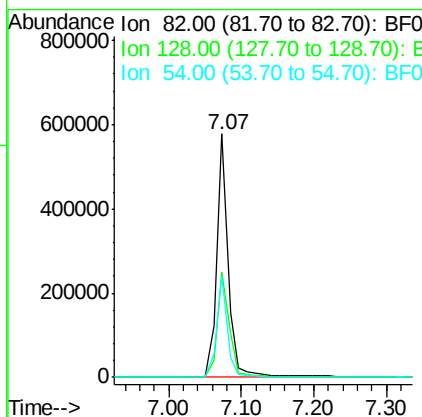
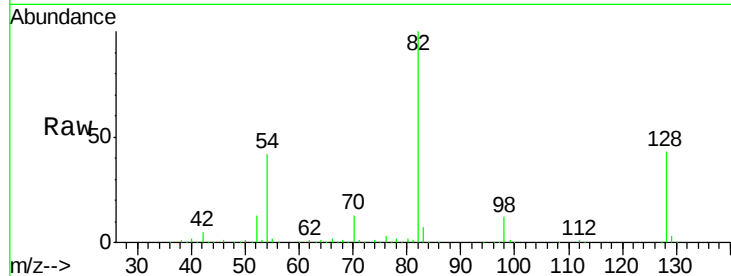




#23
 Nitrobenzene-d5
 Concen: 68.42 ng
 RT: 7.07 min Scan# 480
 Delta R.T. -0.02 min
 Lab File: BF090172.D
 Acq: 21 Sep 2016 21:15

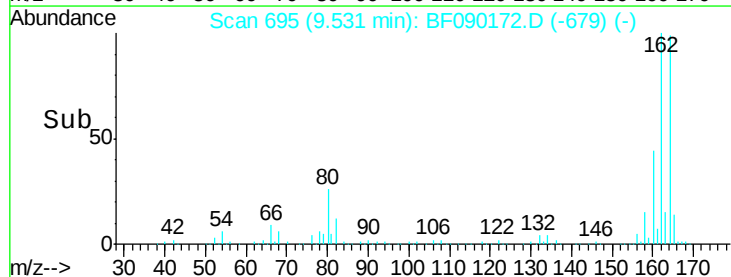
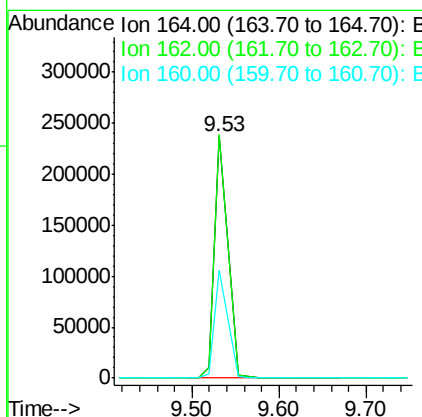
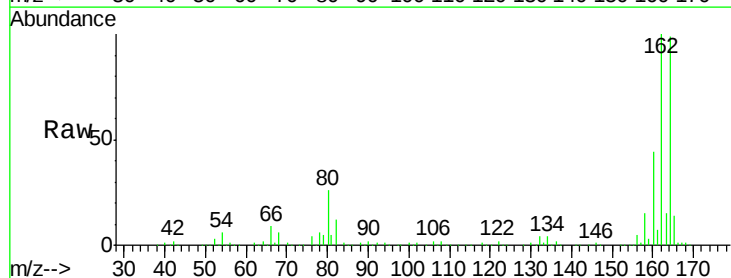
Instrument :
 BNA_F
 ClientSampleId :
 BH-4-0.5-4FT

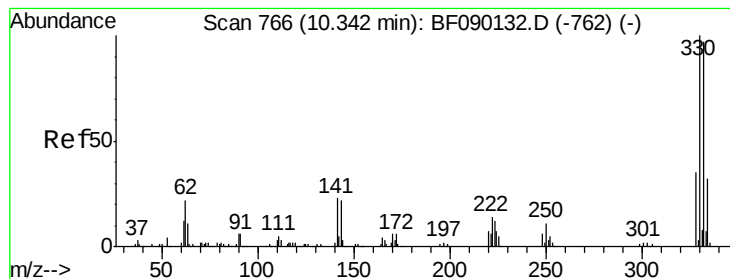
Tot Ion	82	Resp	639063
Ion Ratio	100	Lower	Upper
128	43.5	37.5	56.3
54	41.6	31.9	47.9



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.53 min Scan# 695
 Delta R.T. -0.02 min
 Lab File: BF090172.D
 Acq: 21 Sep 2016 21:15

Tgt Ion	164	Resp	264323
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
162	100.5	81.4	122.2
160	44.3	36.6	54.8

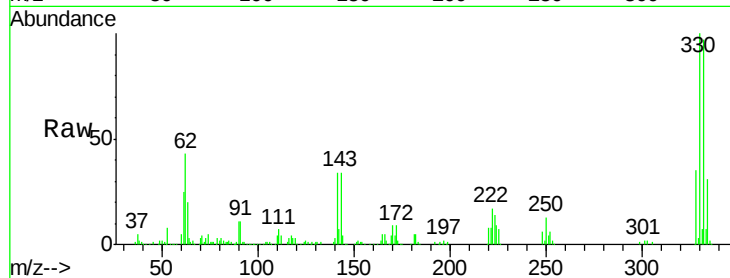




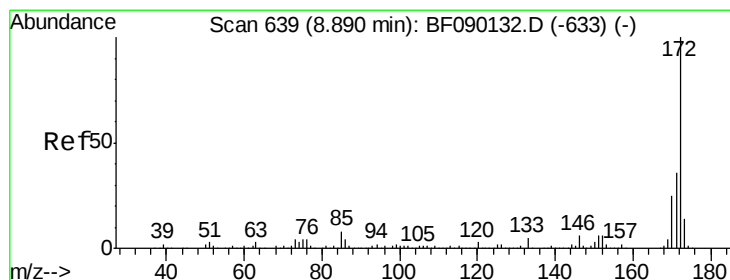
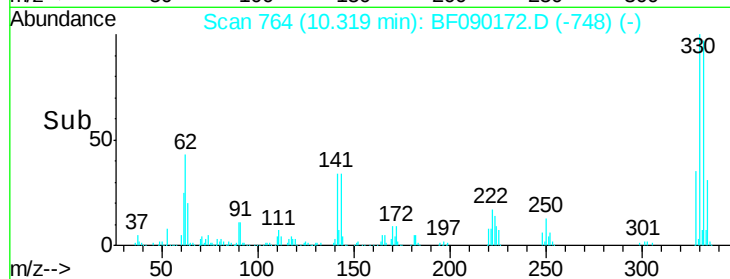
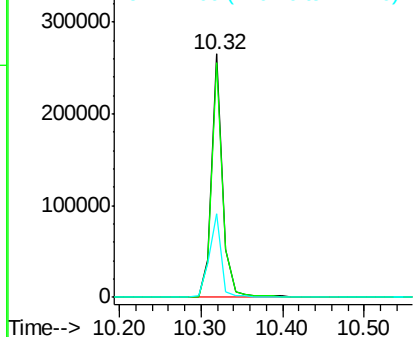
#41
 2,4,6-Tribromophenol
 Concen: 114.63 ng
 RT: 10.32 min Scan# 764
 Delta R.T. -0.02 min
 Lab File: BF090172.D
 Acq: 21 Sep 2016 21:15

Instrument :
 BNA_F
 ClientSampleId :
 BH-4-0.5-4FT

Tot Ion:330 Resp: 259945
 Ion Ratio Lower Upper
 330 100
 332 96.8 78.1 117.1
 141 37.7 23.9 35.9#

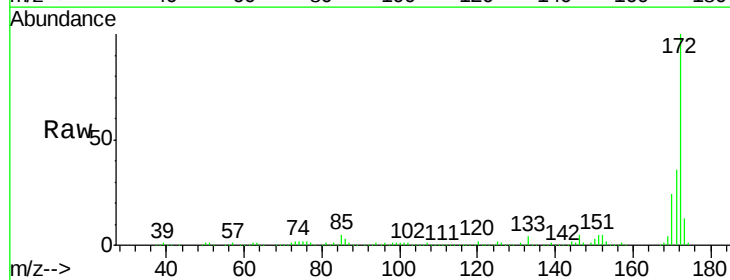


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

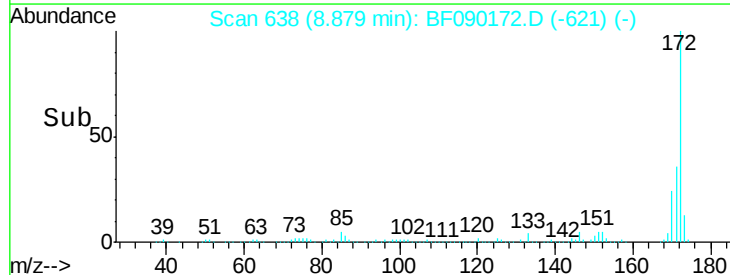
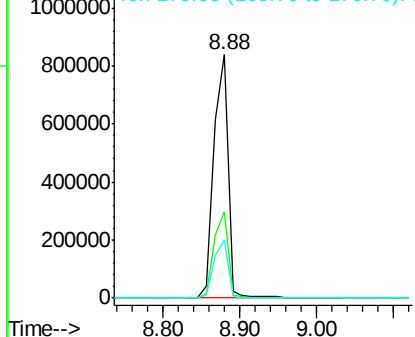


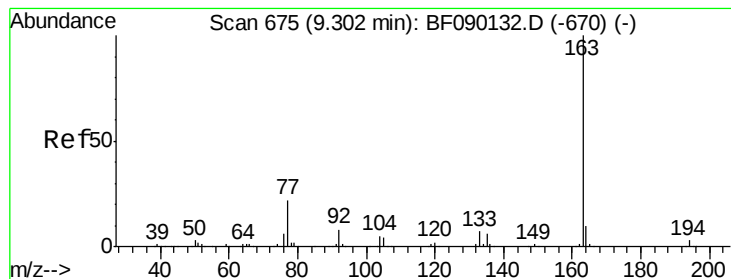
#44
 2-Fluorobiphenyl
 Concen: 79.72 ng
 RT: 8.88 min Scan# 638
 Delta R.T. -0.01 min
 Lab File: BF090172.D
 Acq: 21 Sep 2016 21:15

Tgt Ion:172 Resp: 1073349
 Ion Ratio Lower Upper
 172 100
 171 35.5 29.2 43.8
 170 23.9 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: 25.88 ng

RT: 9.28 min Scan# 673

Delta R.T. -0.02 min

Lab File: BF090172.D

Acq: 21 Sep 2016 21:15

Instrument :

BNA_F

ClientSampleId :

BH-4-0.5-4FT

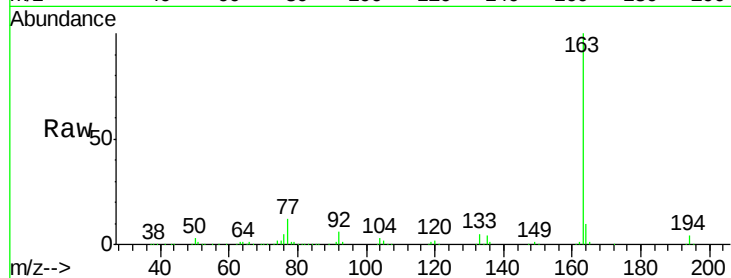
Tot Ion:163 Resp: 435632

Ion Ratio Lower Upper

163 100

194 3.5 2.8 4.2

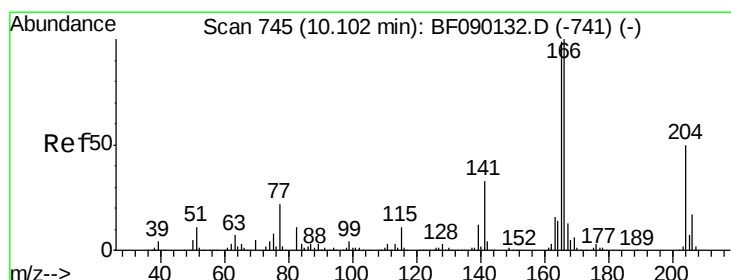
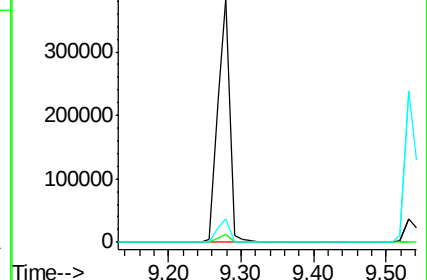
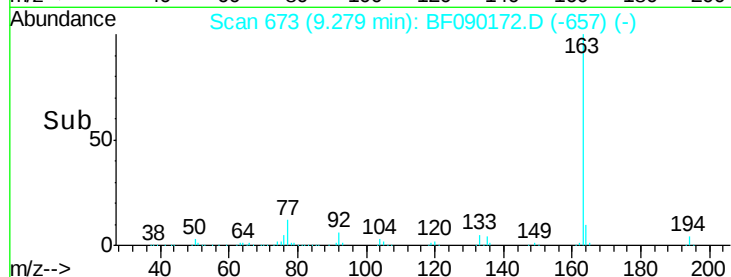
164 9.6 8.1 12.1



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#57

Fluorene

Concen: 2.34 ng

RT: 10.08 min Scan# 743

Delta R.T. -0.02 min

Lab File: BF090172.D

Acq: 21 Sep 2016 21:15

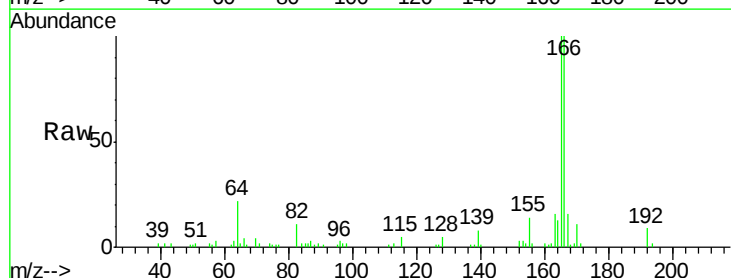
Tgt Ion:166 Resp: 31260

Ion Ratio Lower Upper

166 100

165 100.0 78.5 117.7

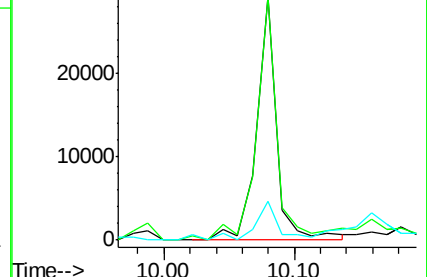
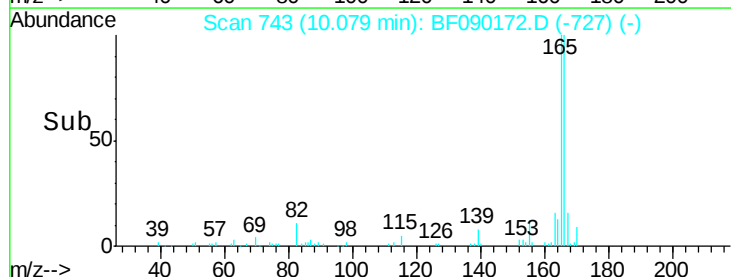
167 15.9 11.2 16.8

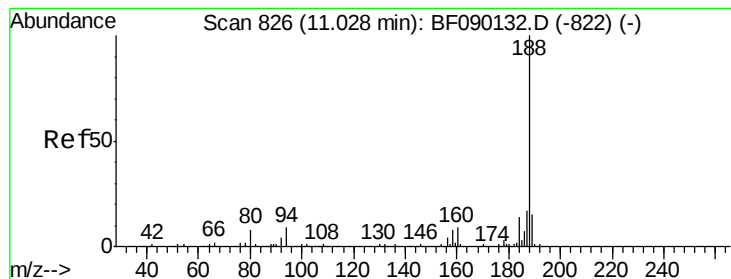


Abundance Ion 166.00 (165.70 to 166.70): E

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: 11.01 min Scan# 824

Delta R.T. -0.02 min

Lab File: BF090172.D

Acq: 21 Sep 2016 21:15

Instrument :

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BH-4-0.5-4FT

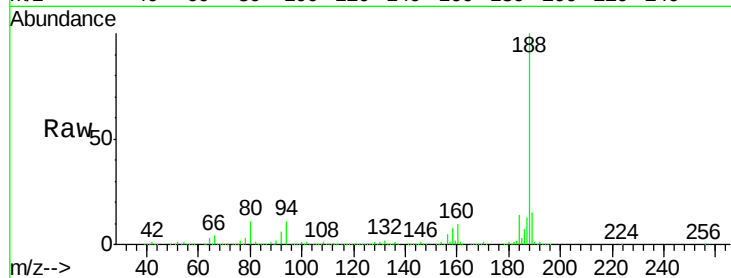
Tot Ion:188 Resp: 477414

Ion Ratio Lower Upper

188 100

94 10.9 10.5 15.7

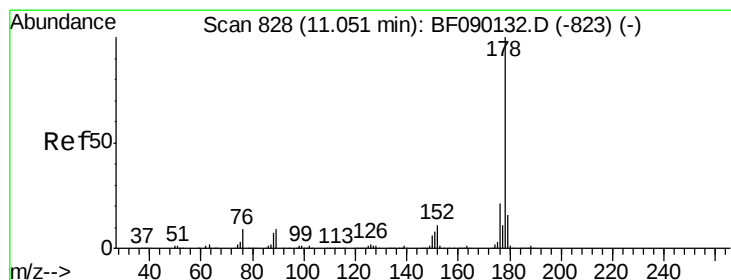
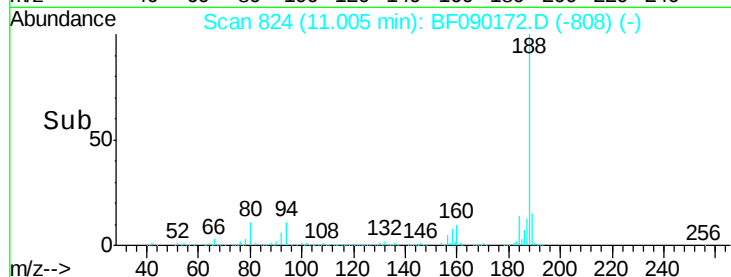
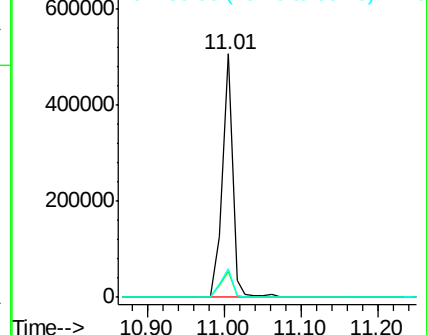
80 11.5 11.2 16.8



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: 20.25 ng

RT: 11.03 min Scan# 826

Delta R.T. -0.02 min

Lab File: BF090172.D

Acq: 21 Sep 2016 21:15

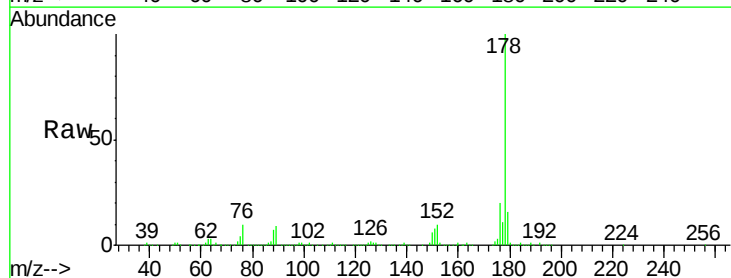
Tgt Ion:178 Resp: 452235

Ion Ratio Lower Upper

178 100

176 19.6 15.9 23.9

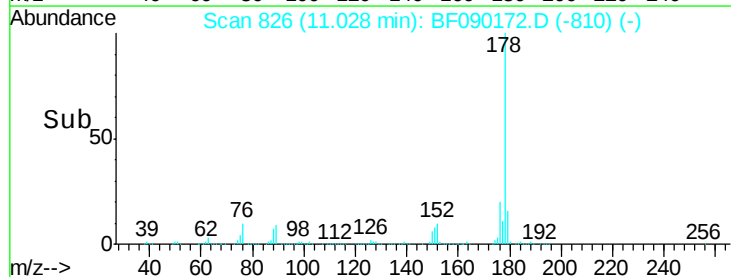
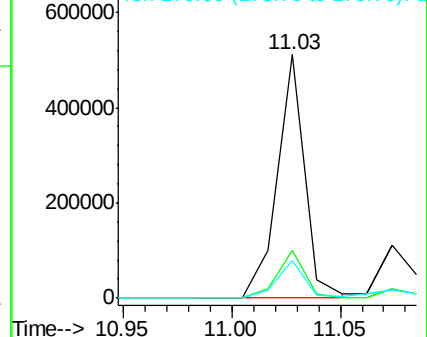
179 15.6 12.9 19.3

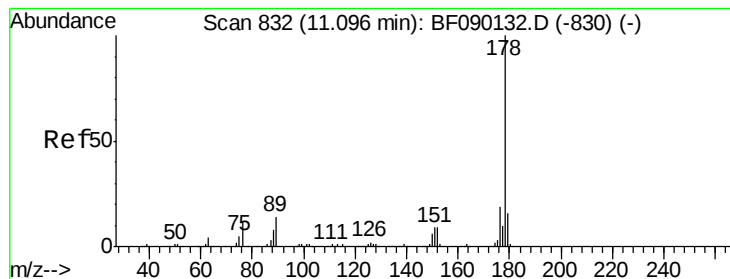


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 5.67 ng

RT: 11.07 min Scan# 830

Delta R.T. -0.02 min

Lab File: BF090172.D

Acq: 21 Sep 2016 21:15

Instrument :

BNA_F

ClientSampleId :

BH-4-0.5-4FT

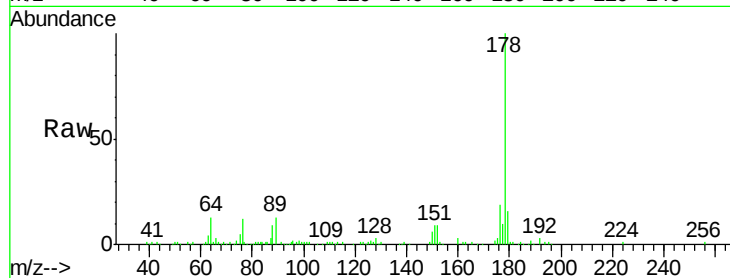
Tot Ion:178 Resp: 132687

Ion Ratio Lower Upper

178 100

176 18.8 15.8 23.6

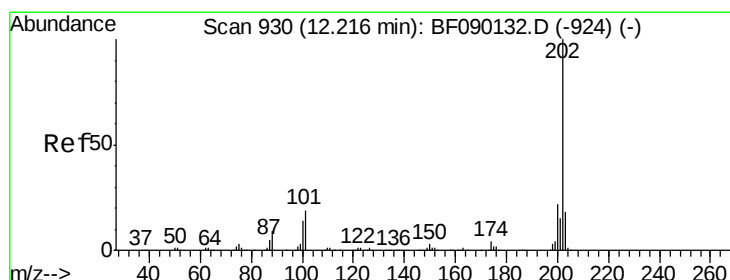
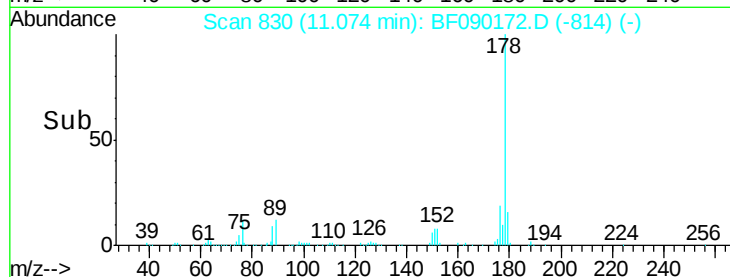
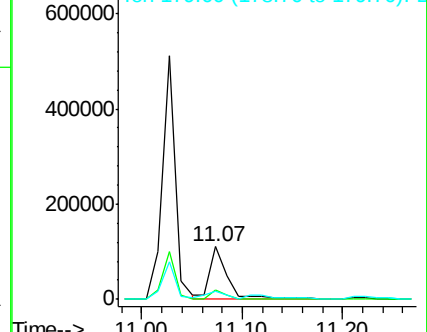
179 16.1 12.6 19.0



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



#74

Fluoranthene

Concen: 25.41 ng

RT: 12.21 min Scan# 929

Delta R.T. -0.01 min

Lab File: BF090172.D

Acq: 21 Sep 2016 21:15

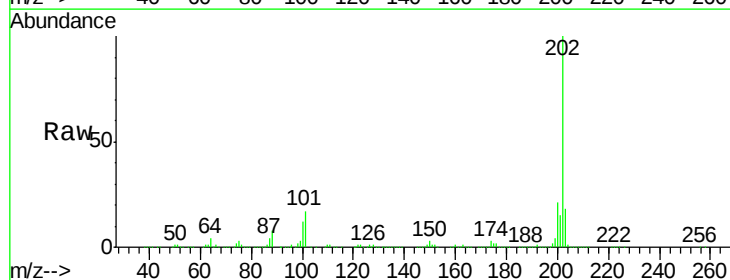
Tgt Ion:202 Resp: 608957

Ion Ratio Lower Upper

202 100

101 17.3 0.0 36.1

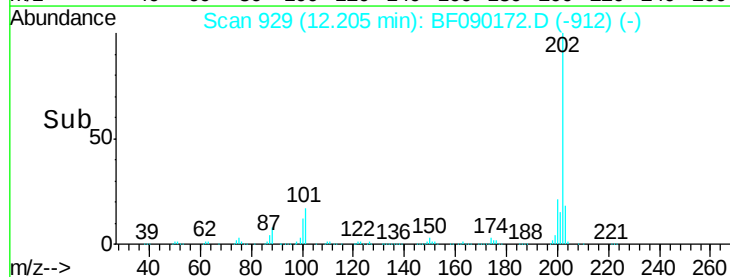
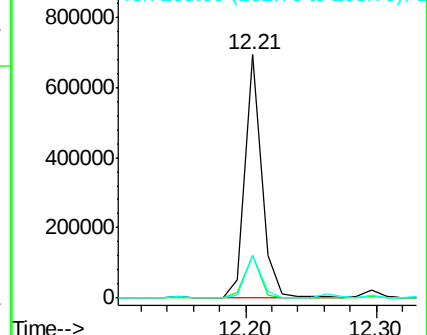
203 17.7 0.0 38.2

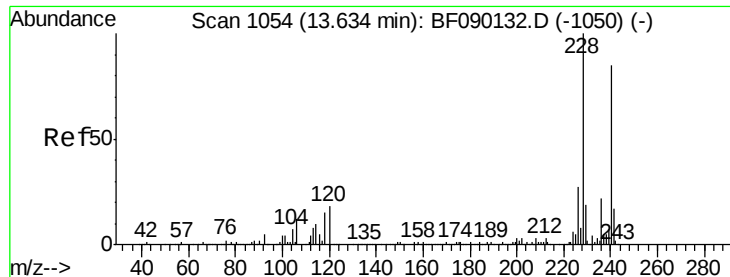


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.61 min Scan# 1052

Delta R.T. -0.02 min

Lab File: BF090172.D

Acq: 21 Sep 2016 21:15

Instrument :

BNA_F

ClientSampleId :

BH-4-0.5-4FT

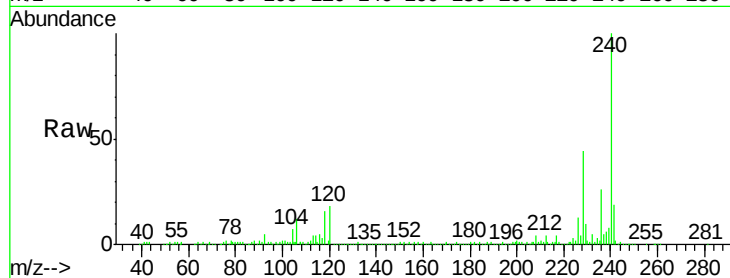
Tot Ion:240 Resp: 299141

Ion Ratio Lower Upper

240 100

120 18.1 10.6 16.0#

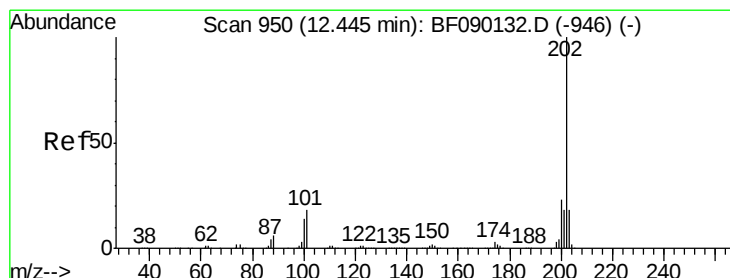
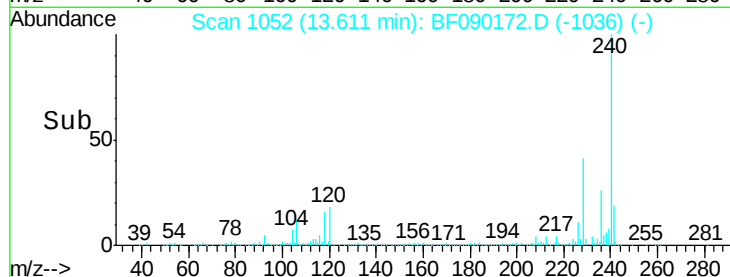
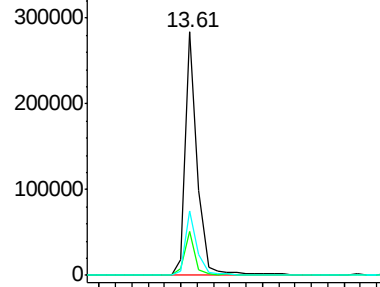
236 26.5 21.6 32.4



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: 27.08 ng

RT: 12.42 min Scan# 948

Delta R.T. -0.02 min

Lab File: BF090172.D

Acq: 21 Sep 2016 21:15

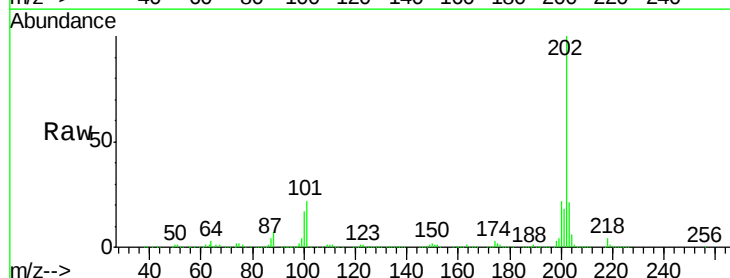
Tgt Ion:202 Resp: 554416

Ion Ratio Lower Upper

202 100

200 21.6 17.9 26.9

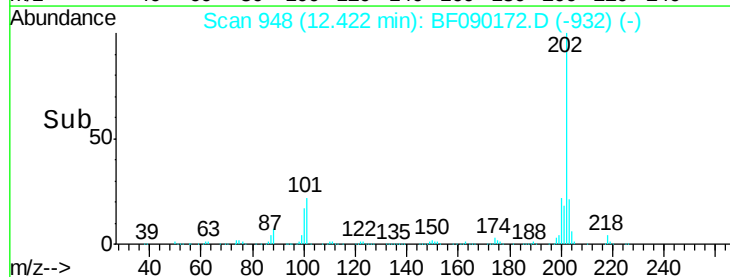
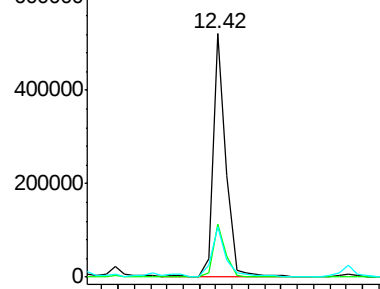
203 20.6 14.2 21.4

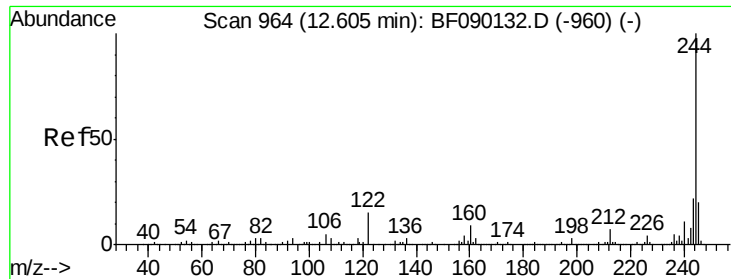


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

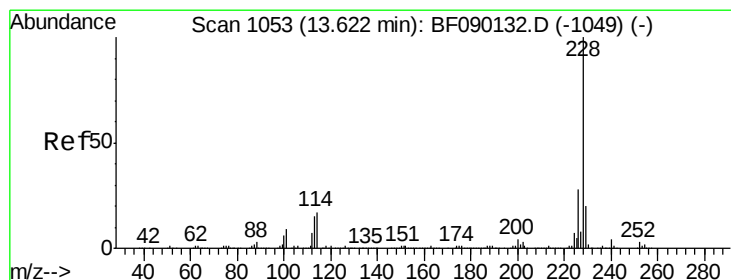
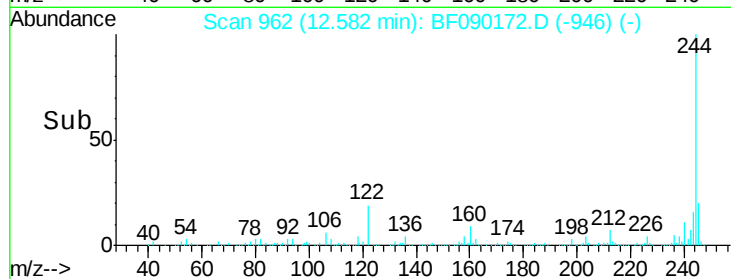
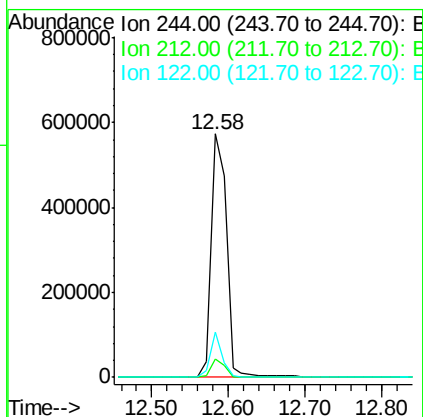
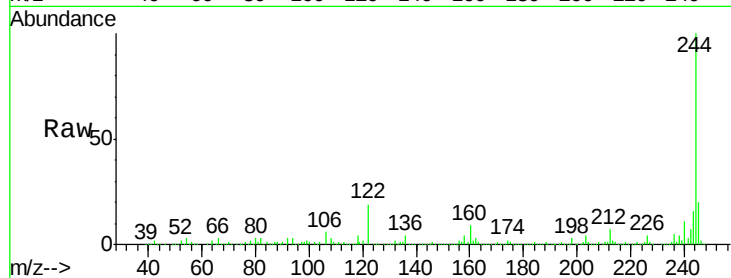




#78
 Terphenyl-d14
 Concen: 66.88 ng
 RT: 12.58 min Scan# 962
 Delta R.T. -0.02 min
 Lab File: BF090172.D
 Acq: 21 Sep 2016 21:15

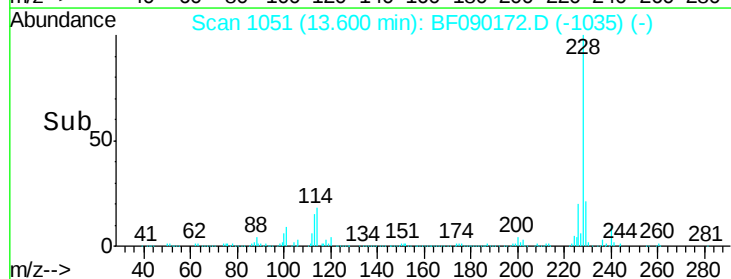
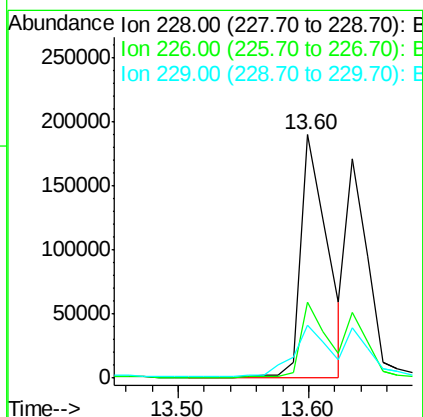
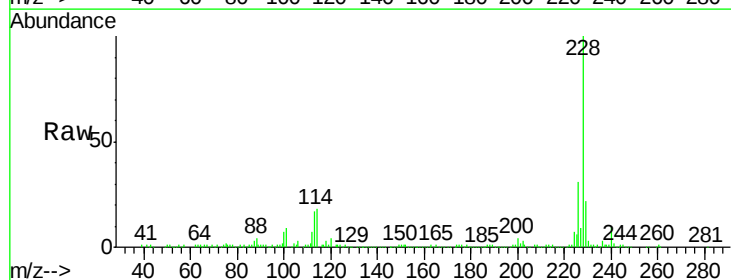
Instrument :
 BNA_F
 ClientSampleId :
 BH-4-0.5-4FT

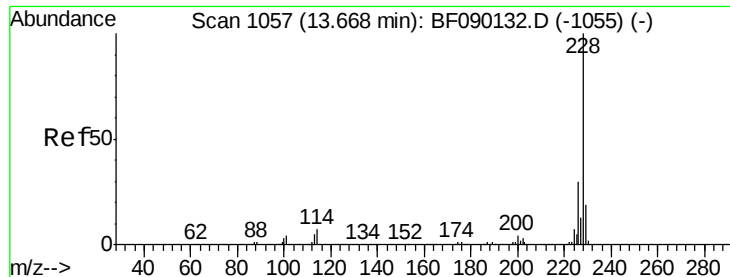
Tot Ion:244 Resp: 788008
 Ion Ratio Lower Upper
 244 100
 212 7.5 5.8 8.8
 122 18.6 9.4 14.0#



#80
 Benzo(a)anthracene
 Concen: 16.55 ng
 RT: 13.60 min Scan# 1051
 Delta R.T. -0.02 min
 Lab File: BF090172.D
 Acq: 21 Sep 2016 21:15

Tgt Ion:228 Resp: 266322
 Ion Ratio Lower Upper
 228 100
 226 31.4 22.0 33.0
 229 21.7 16.2 24.2





#82

Chrysene

Concen: 12.89 ng/mL

RT: 13.63 min Scan# 1054

Delta R.T. -0.03 min

Lab File: BF090172.D

Acq: 21 Sep 2016 21:15

Instrument :

BNA_F

ClientSampleId :

BH-4-0.5-4FT

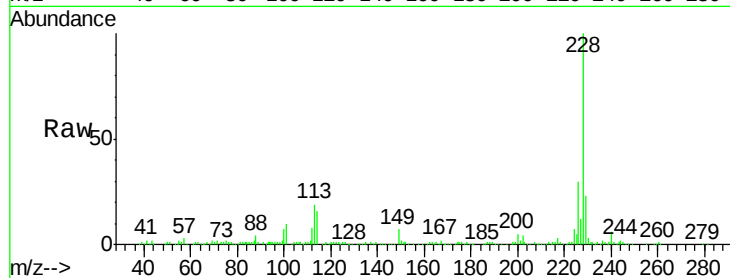
Tot Ion: 228 Resp: 202108

Ion Ratio Lower Upper

228 100

226 30.2 24.6 37.0

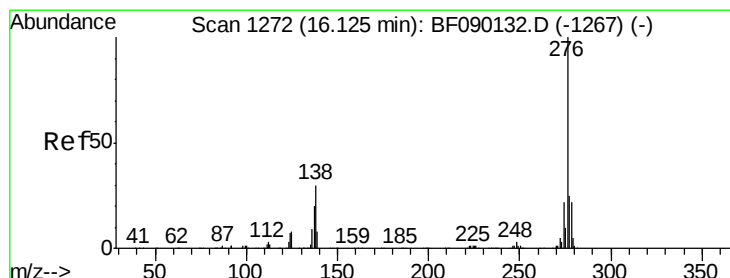
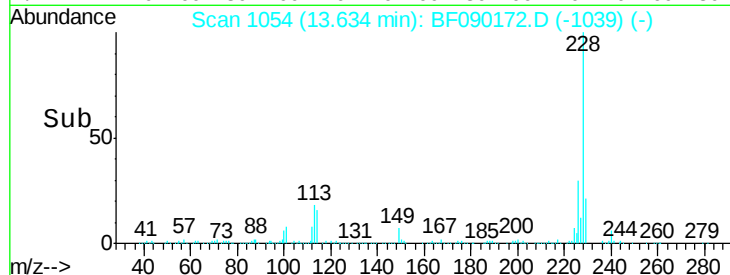
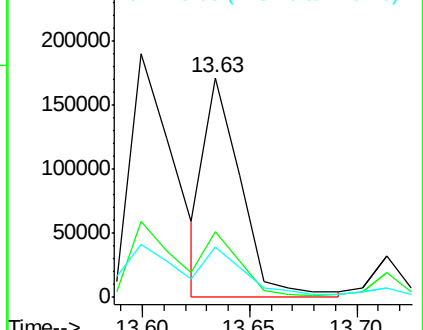
229 22.8 16.2 24.4



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 11.48 ng/mL

RT: 16.09 min Scan# 1269

Delta R.T. -0.03 min

Lab File: BF090172.D

Acq: 21 Sep 2016 21:15

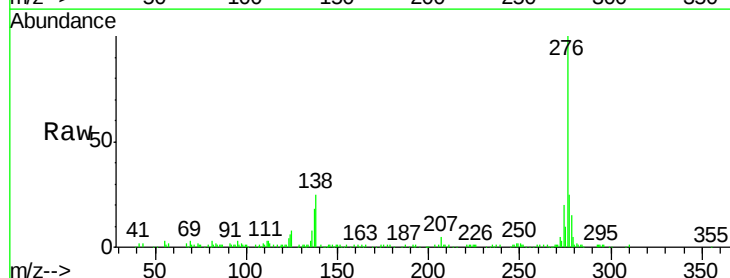
Tgt Ion: 276 Resp: 145478

Ion Ratio Lower Upper

276 100

138 23.5 25.9 38.9#

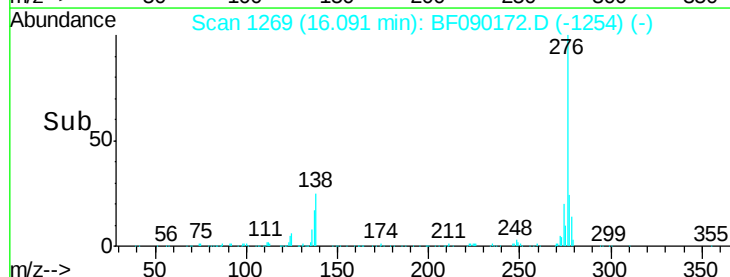
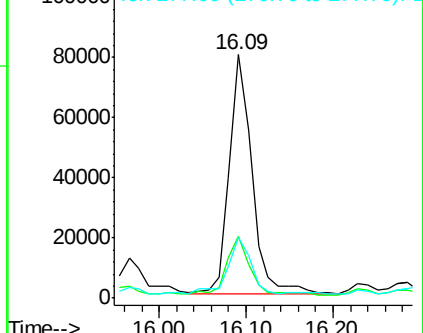
277 25.6 19.9 29.9

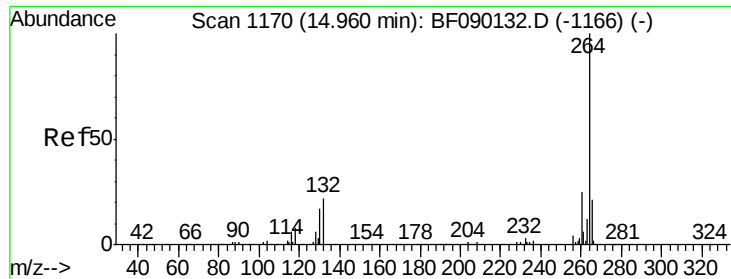


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

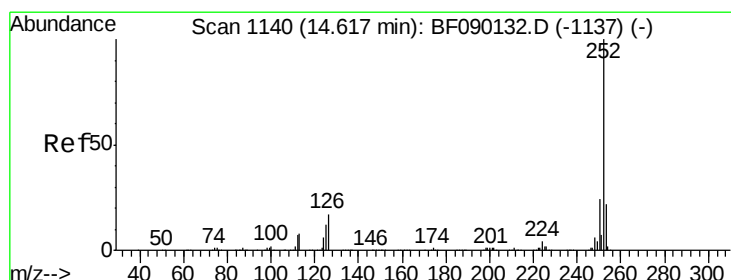
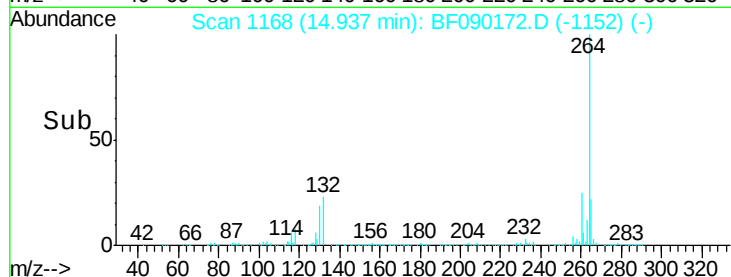
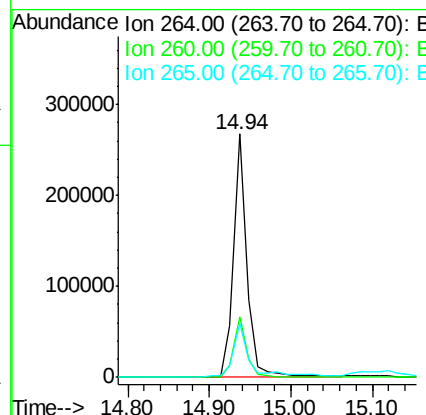
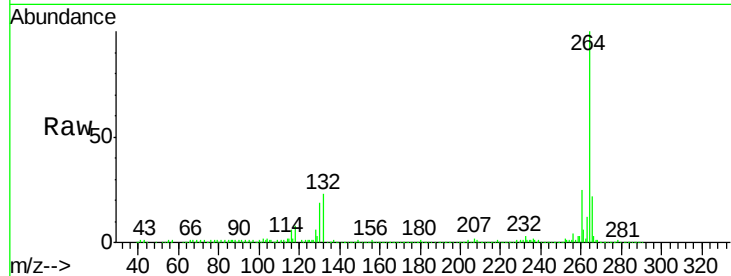




#86
Pervlene-d12
Concen: 20.00 ng
RT: 14.94 min Scan# 1168
Delta R.T. -0.02 min
Lab File: BF090172.D
Acq: 21 Sep 2016 21:15

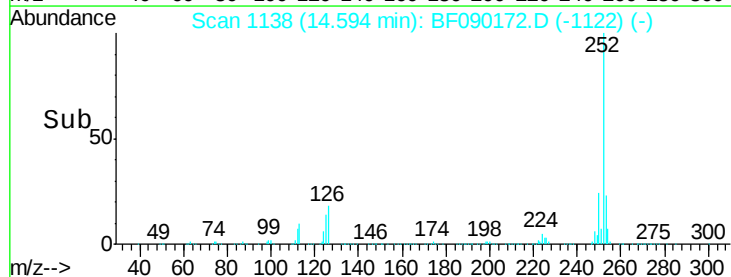
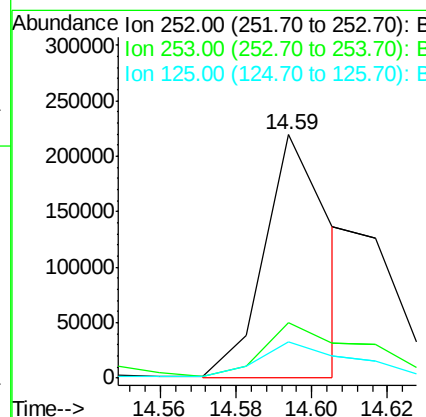
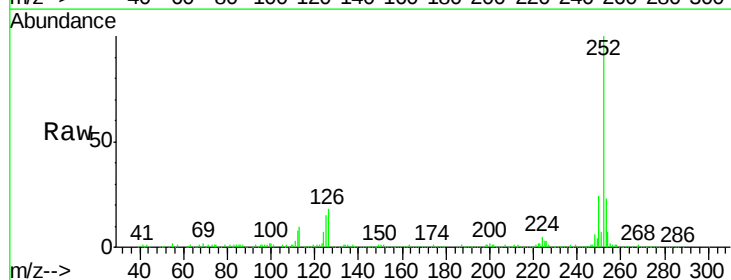
Instrument :
BNA_F
ClientSampleId :
BH-4-0.5-4FT

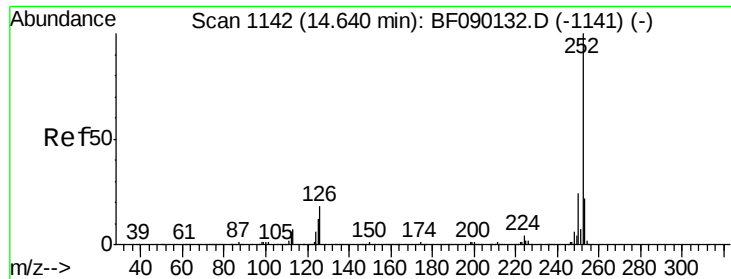
Tot Ion	Ratio	Lower	Upper
264	100		
260	24.8	19.5	29.3
265	22.4	17.0	25.4



#87
Benzo(b)fluoranthene
Concen: 15.99 ng m
RT: 14.59 min Scan# 1138
Delta R.T. -0.02 min
Lab File: BF090172.D
Acq: 21 Sep 2016 21:15

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.9	26.9
125	14.7	12.7	19.1





#88

Benzo(k)fluoranthene

Concen: 7.46 ng/mL

RT: 14.61 min Scan# 1139

Delta R.T. -0.03 min

Lab File: BF090172.D

Acq: 21 Sep 2016 21:15

Instrument :

BNA_F

ClientSampleId :

BH-4-0.5-4FT

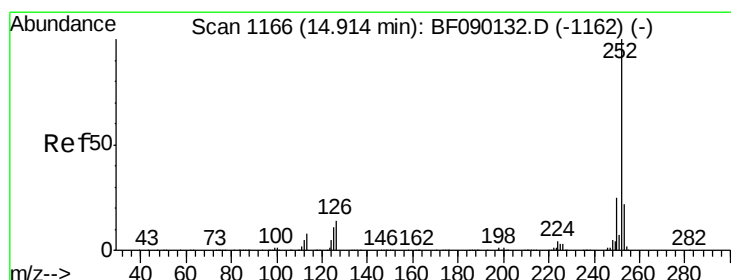
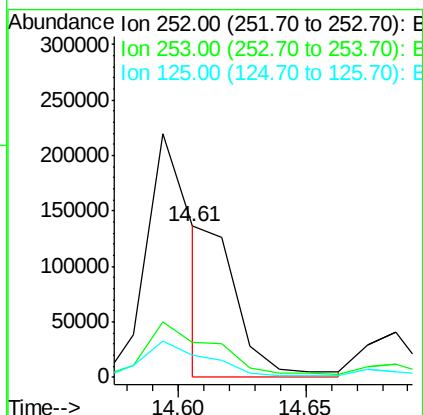
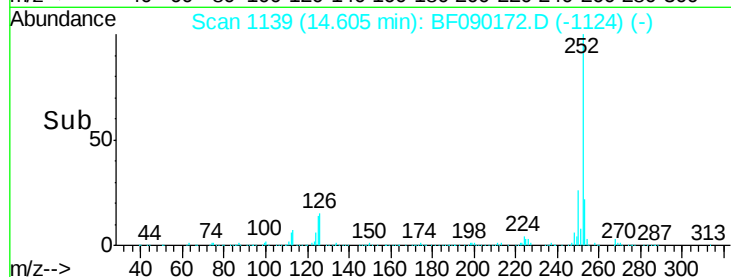
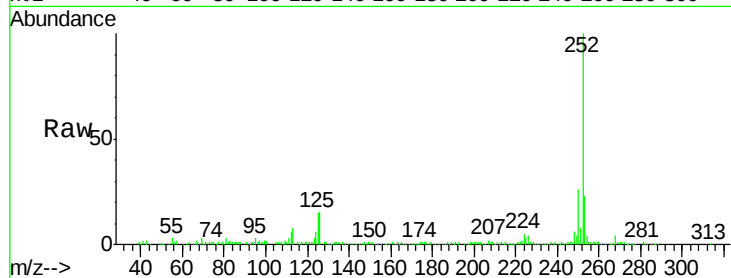
Tot Ion:252 Resp: 118201

Ion Ratio Lower Upper

252 100

253 22.9 17.8 26.8

125 14.8 7.8 11.6#



#89

Benzo(a)pyrene

Concen: 14.00 ng/mL

RT: 14.89 min Scan# 1164

Delta R.T. -0.02 min

Lab File: BF090172.D

Acq: 21 Sep 2016 21:15

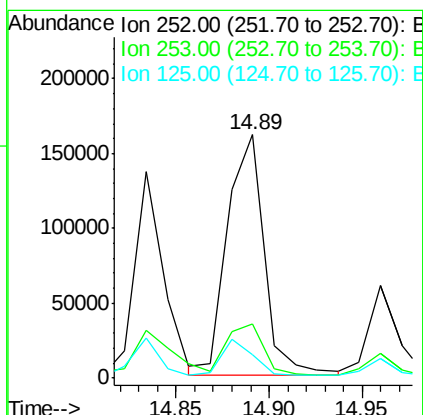
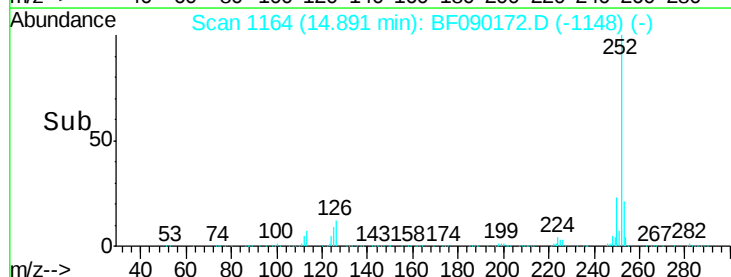
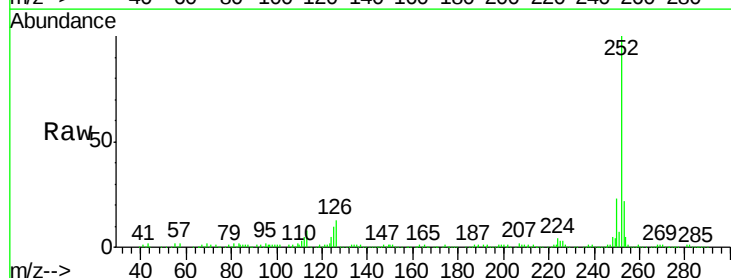
Tgt Ion:252 Resp: 222505

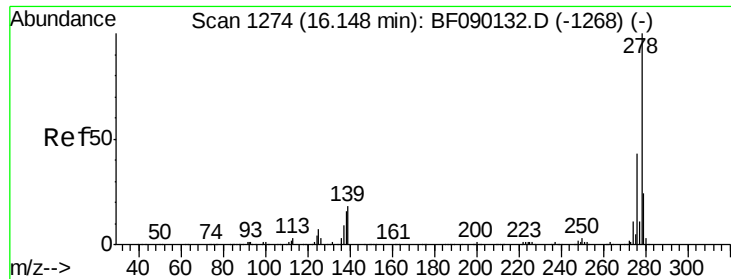
Ion Ratio Lower Upper

252 100

253 22.4 17.4 26.0

125 9.7 7.7 11.5





#90

Dibenzo(a,h)anthracene

Concen: 2.40 ng/mL

RT: 16.10 min Scan# 1270

Delta R.T. -0.05 min

Lab File: BF090172.D

Acq: 21 Sep 2016 21:15

Instrument :

BNA_F

ClientSampleID :

BH-4-0.5-4FT

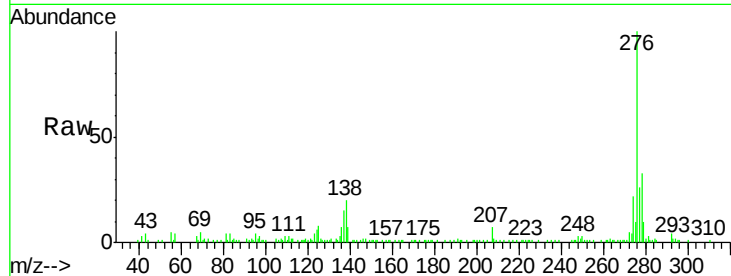
Tot Ion:278 Resp: 29760

Ion Ratio Lower Upper

278 100

139 22.4 14.6 21.8#

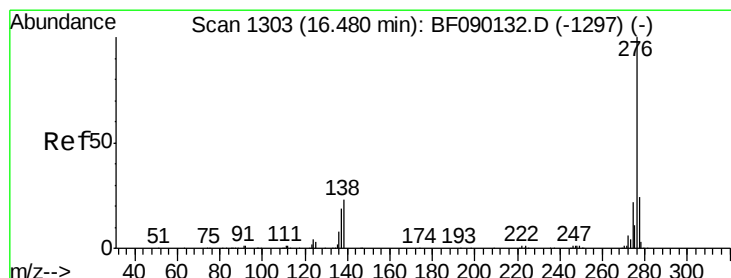
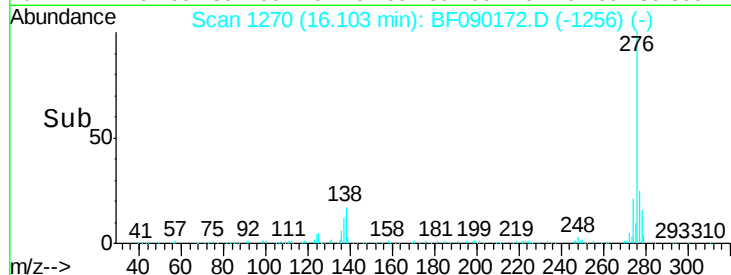
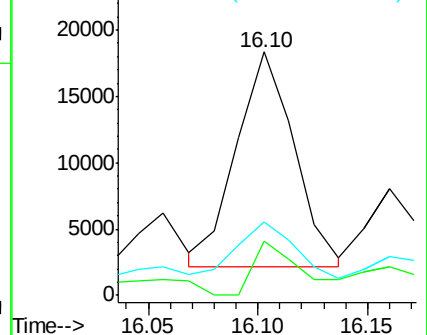
279 30.0 18.8 28.2#



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: 11.07 ng/mL

RT: 16.43 min Scan# 1299

Delta R.T. -0.05 min

Lab File: BF090172.D

Acq: 21 Sep 2016 21:15

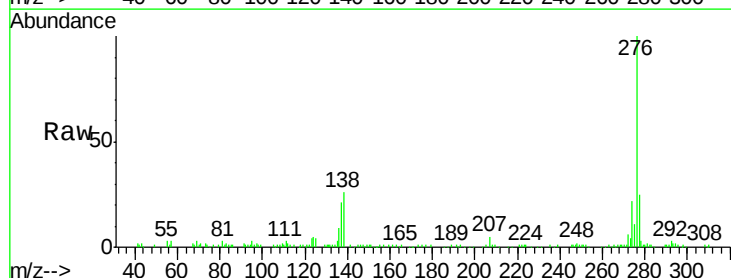
Tgt Ion:276 Resp: 134395

Ion Ratio Lower Upper

276 100

277 25.2 18.9 28.3

138 26.3 23.3 34.9



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

