

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF032117\
 Data File : BF093828.D
 Acq On : 22 Mar 2017 10:30
 Operator : SJ/MA
 Sample : I2318-09DL 50X
 Misc :
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HP-PW-02DL

Quant Time: Mar 22 14:57:38 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Mar 21 14:38:20 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	200883	20.00	ng	0.00
21) Naphthalene-d8	8.12	136	805464	20.00	ng	0.00
38) Acenaphthene-d10	9.86	164	371882	20.00	ng	0.00
63) Phenanthrene-d10	11.34	188	568717	20.00	ng	0.00
75) Chrysene-d12	13.97	240	377286	20.00	ng	0.00
86) Perylene-d12	15.37	264	345650	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.41	112	27762	2.42	ng	-0.01
7) Phenol-d6	6.45	99	35966	2.53	ng	-0.01
23) Nitrobenzene-d5	7.38	82	19511	1.37	ng	-0.01
41) 2,4,6-Tribromophenol	10.64	330	5051	1.75	ng	-0.01
44) 2-Fluorobiphenyl	9.19	172	43768	1.98	ng	0.00
78) Terphenyl-d14	12.92	244	28519	1.54	ng	-0.01

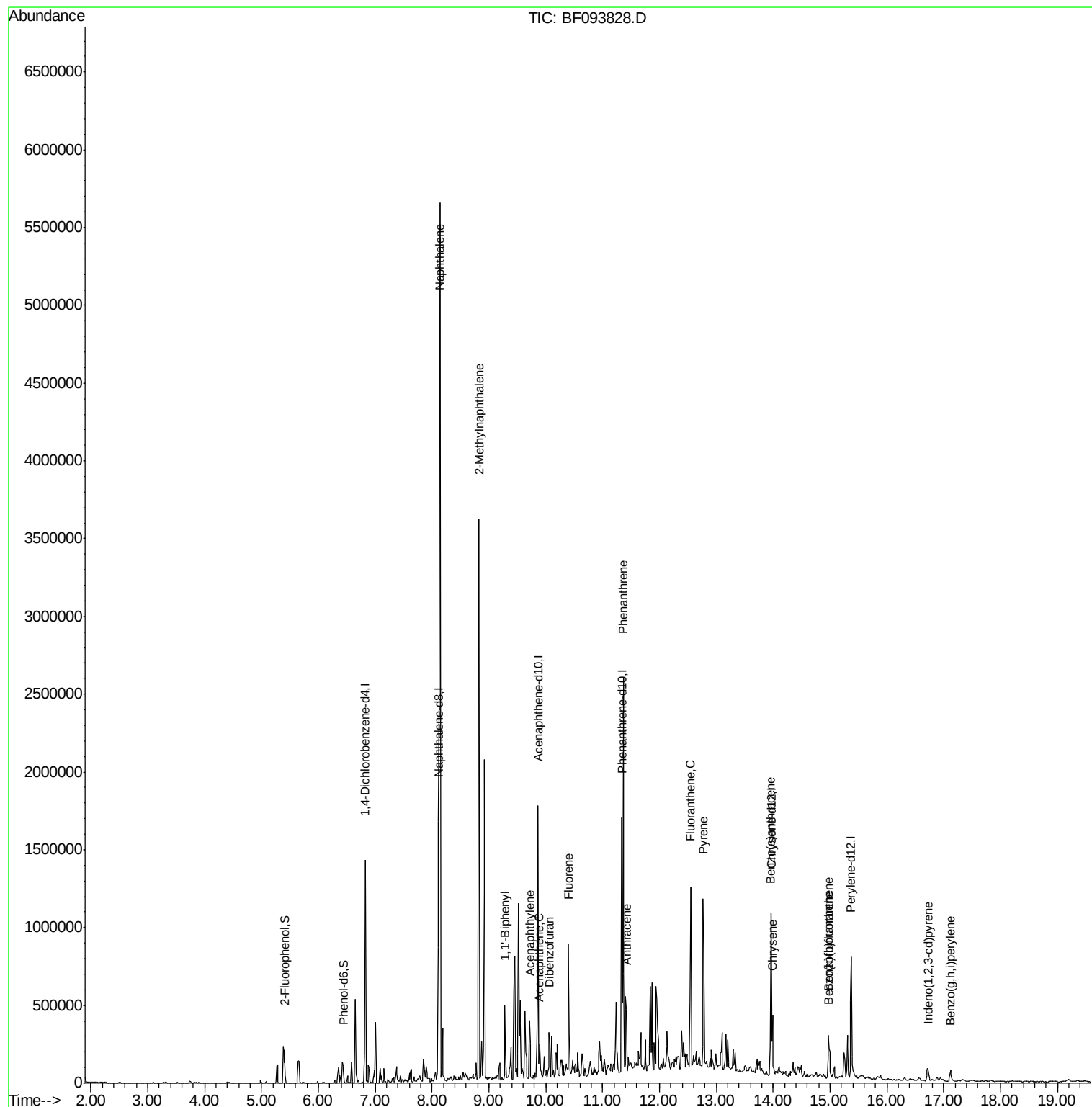
Target Compounds				Qvalue		
31) Naphthalene	8.14	128	2748800	73.52	ng	99
37) 2-Methylnaphthalene	8.82	142	954651	39.12	ng	99
45) 1,1'-Biphenyl	9.28	154	142909	4.73	ng	95
48) Acenaphthylene	9.72	152	102090	2.71	ng	# 94
51) Acenaphthene	9.89	154	50311	2.23	ng	94
54) Dibenzofuran	10.06	168	72769	2.40	ng	# 87
57) Fluorene	10.40	166	248993	10.73	ng	99
70) Phenanthrene	11.36	178	946646	31.25	ng	99
71) Anthracene	11.42	178	258041	8.28	ng	96
74) Fluoranthene	12.55	202	477362	15.33	ng	96
77) Pyrene	12.77	202	563588	17.95	ng	98
80) Benzo(a)anthracene	13.96	228	172563m	7.30	ng	
82) Chrysene	13.99	228	153316m	6.49	ng	
85) Indeno(1,2,3-cd)pyrene	16.72	276	56543	2.92	ng	93
87) Benzo(b)fluoranthene	14.97	252	143639m	6.16	ng	
88) Benzo(k)fluoranthene	14.99	252	56509m	3.28	ng	
91) Benzo(g,h,i)perylene	17.12	276	53632	3.44	ng	95

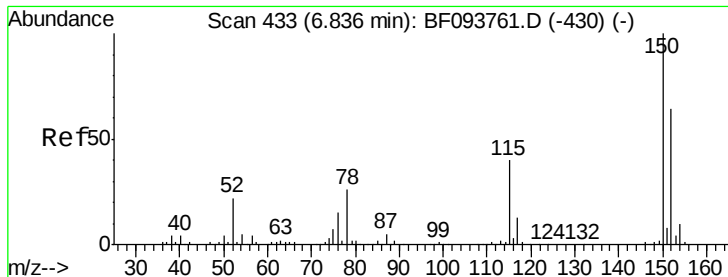
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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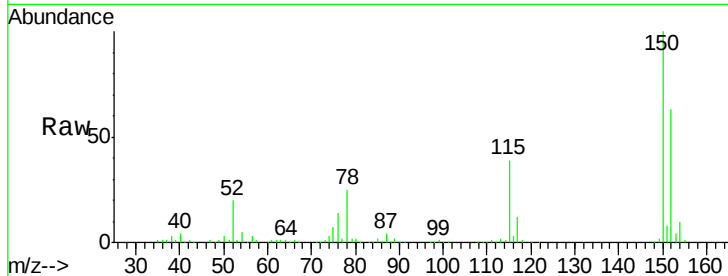


#1

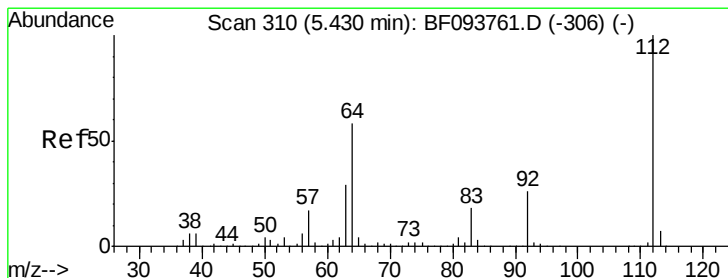
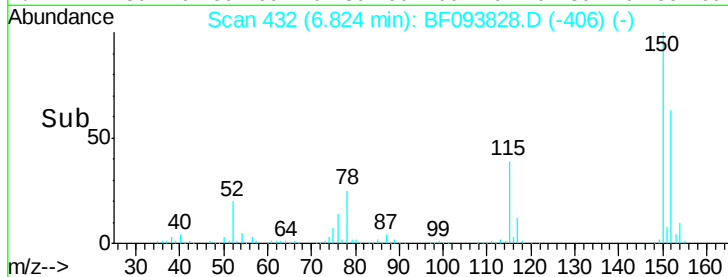
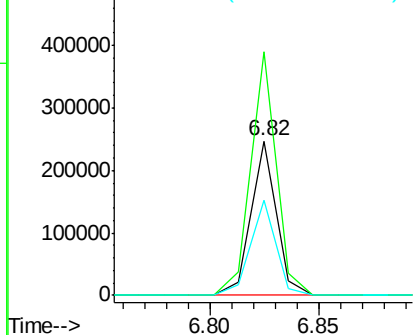
1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.82 min Scan# 432
 Delta R.T. -0.00 min
 Lab File: BF093828.D
 Acq: 22 Mar 2017 10:30

Instrument :
 BNA_F
 ClientSampleID :
 HP-PW-02DL

Tgt Ion:152 Resp: 200883
 Ion Ratio Lower Upper
 152 100
 150 157.5 126.2 189.2
 115 61.4 52.2 78.2



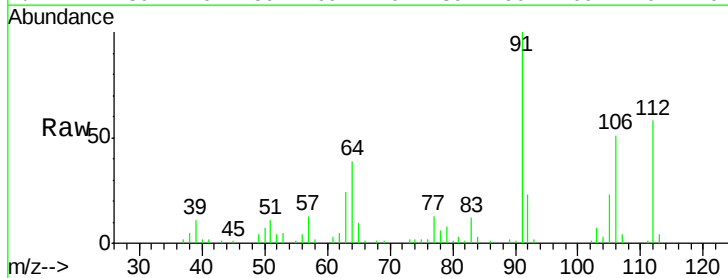
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



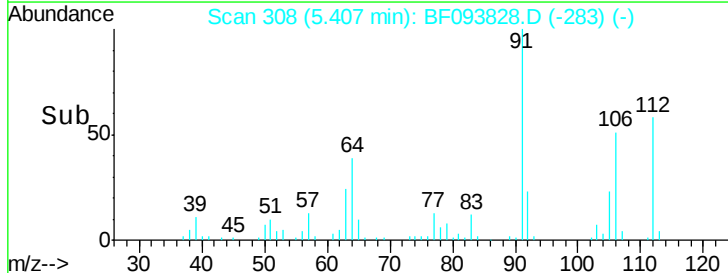
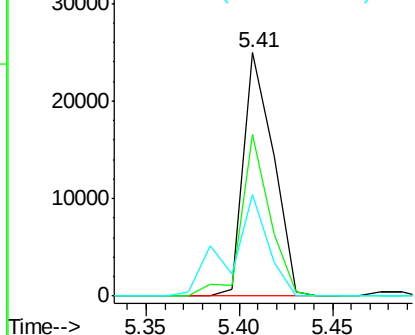
#5

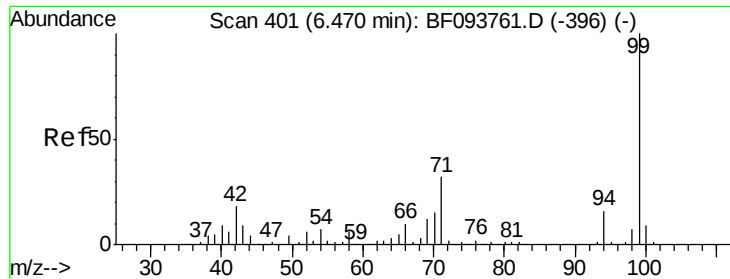
2-Fluorophenol
 Concen: 2.42 ng
 RT: 5.41 min Scan# 308
 Delta R.T. -0.01 min
 Lab File: BF093828.D
 Acq: 22 Mar 2017 10:30

Tgt Ion:112 Resp: 27762
 Ion Ratio Lower Upper
 112 100
 64 66.6 46.0 69.0
 63 41.6 23.4 35.0#



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: 2.53 ng

RT: 6.45 min Scan# 399

Delta R.T. -0.01 min

Lab File: BF093828.D

Acq: 22 Mar 2017 10:30

Instrument :

BNA_F

ClientSampleId :

HP-PW-02DL

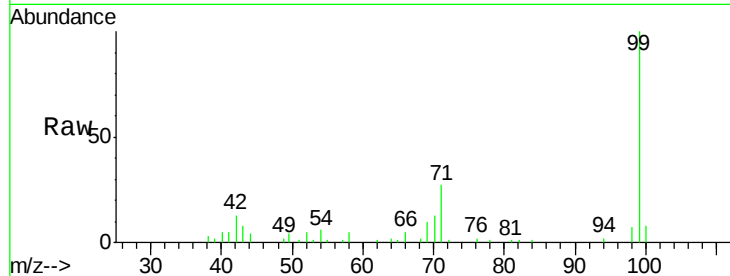
Tgt Ion: 99 Resp: 35966

Ion Ratio Lower Upper

99 100

42 13.2 13.5 20.3#

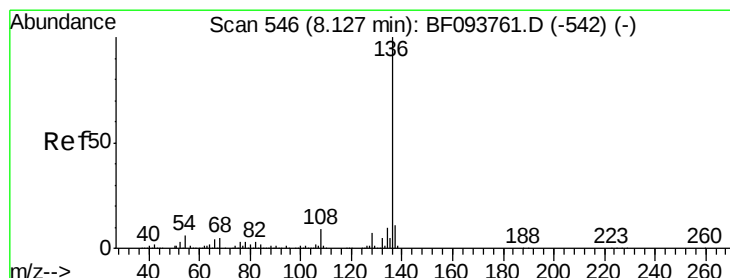
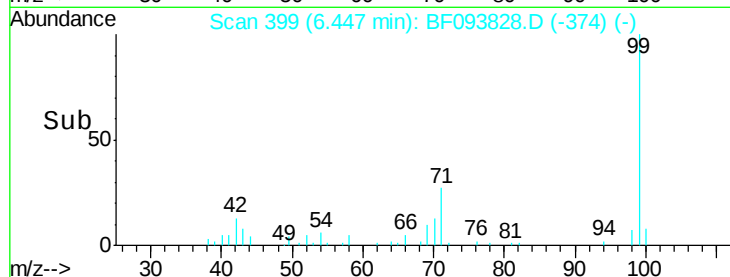
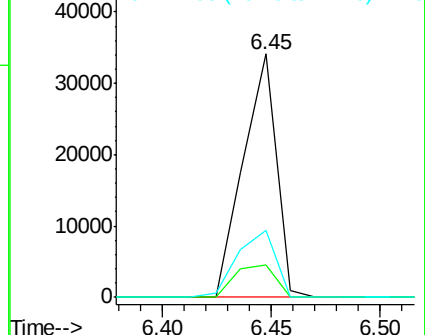
71 27.3 24.5 36.7



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: 8.12 min Scan# 545

Delta R.T. -0.00 min

Lab File: BF093828.D

Acq: 22 Mar 2017 10:30

Tgt Ion: 136 Resp: 805464

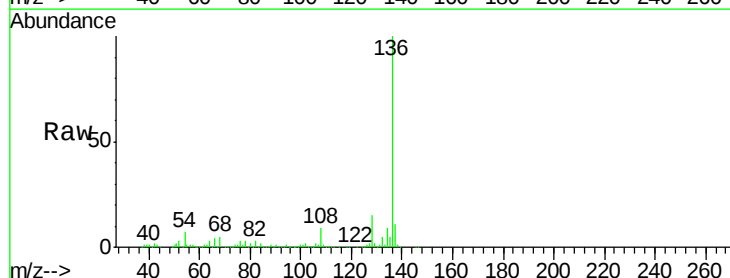
Ion Ratio Lower Upper

136 100

137 10.8 8.5 12.7

54 6.5 4.9 7.3

68 5.3 4.1 6.1

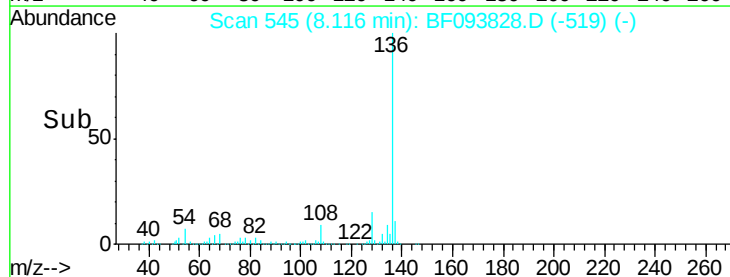
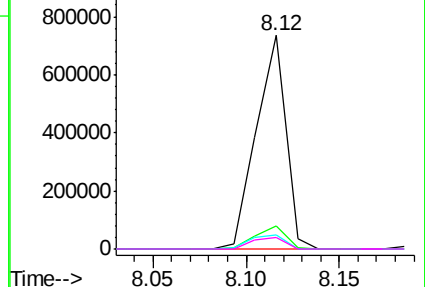


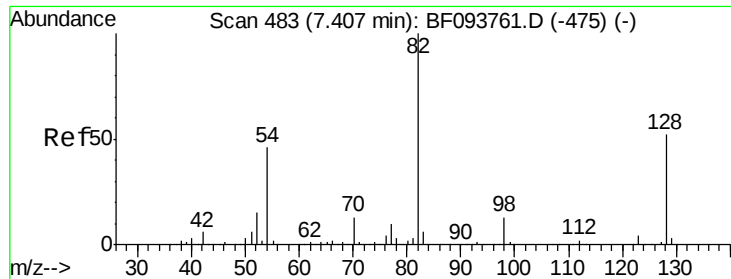
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

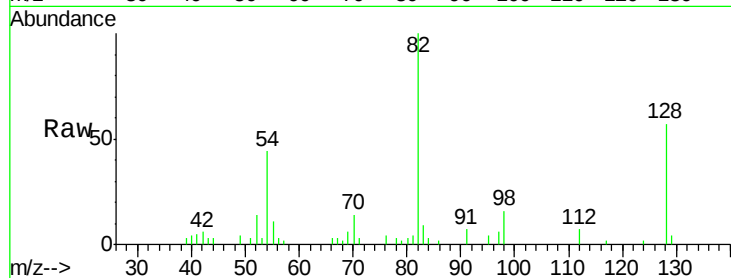




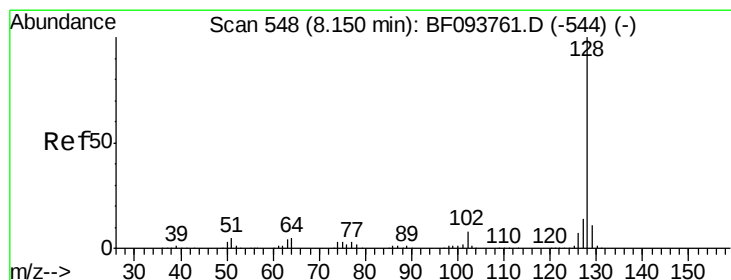
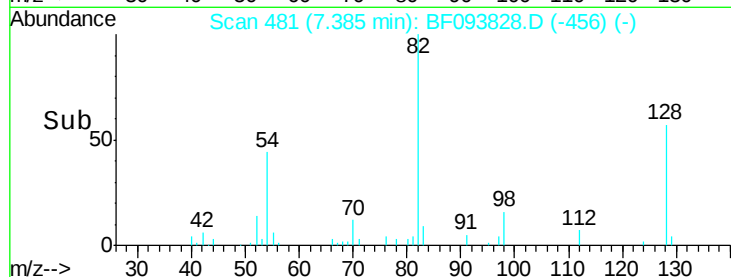
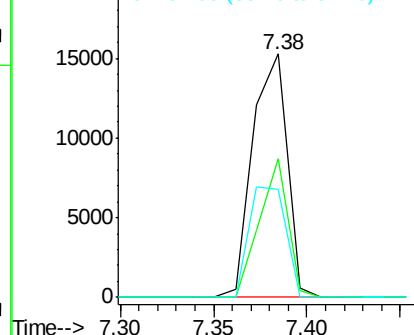
#23
Nitrobenzene-d5
Concen: 1.37 ng
RT: 7.38 min Scan# 481
Delta R.T. -0.01 min
Lab File: BF093828.D
Acq: 22 Mar 2017 10:30

Instrument :
BNA_F
ClientSampleId :
HP-PW-02DL

Tgt Ion: 82 Resp: 19511
Ion Ratio Lower Upper
82 100
128 56.8 34.0 51.0#
54 44.5 42.2 63.2

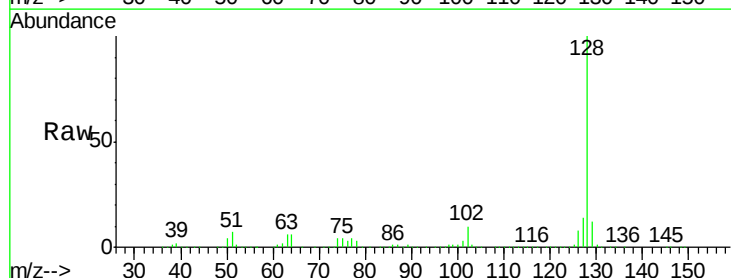


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

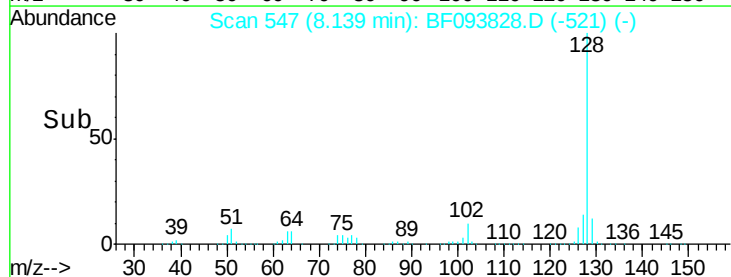
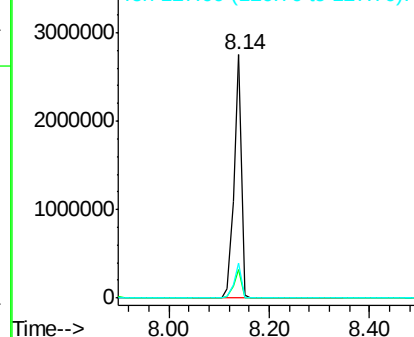


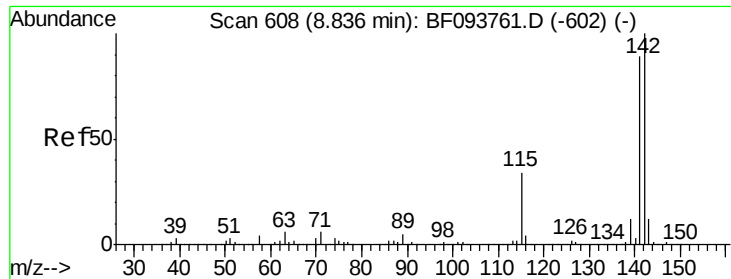
#31
Naphthalene
Concen: 73.52 ng
RT: 8.14 min Scan# 547
Delta R.T. -0.00 min
Lab File: BF093828.D
Acq: 22 Mar 2017 10:30

Tgt Ion: 128 Resp: 2748800
Ion Ratio Lower Upper
128 100
129 11.6 9.0 13.6
127 14.2 10.8 16.2



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

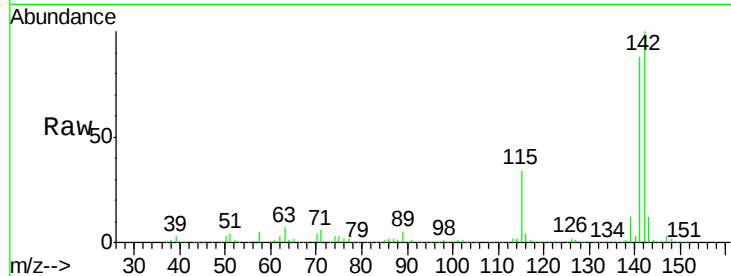




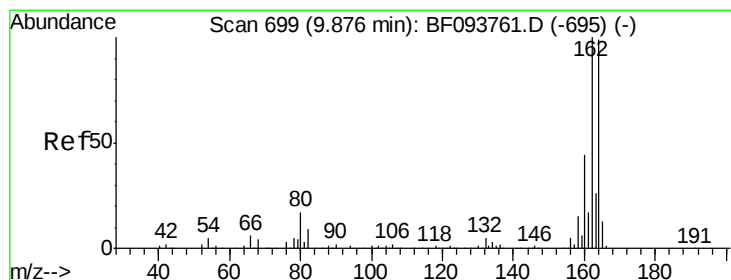
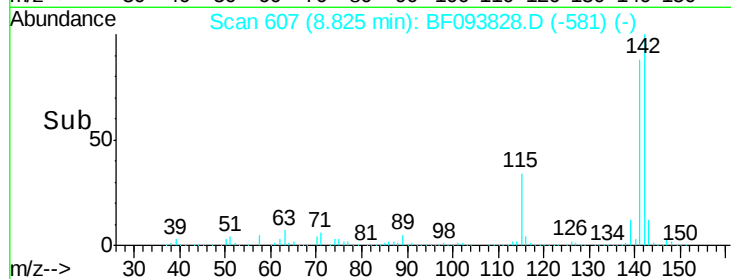
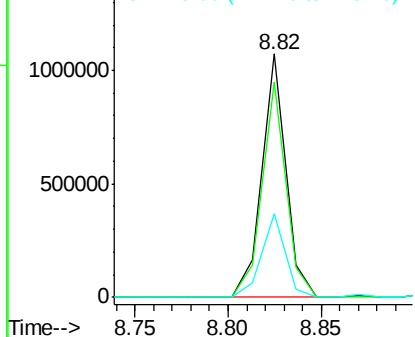
#37
 2-Methylnaphthalene
 Concen: 39.12 ng
 RT: 8.82 min Scan# 607
 Delta R.T. -0.00 min
 Lab File: BF093828.D
 Acq: 22 Mar 2017 10:30

Instrument :
 BNA_F
 ClientSampleID :
 HP-PW-02DL

Tgt Ion:142 Resp: 954651
 Ion Ratio Lower Upper
 142 100
 141 88.5 71.3 106.9
 115 34.3 27.1 40.7

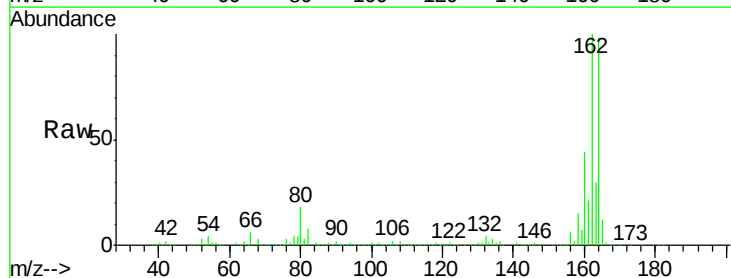


Abundance Ion 142.00 (141.70 to 142.70): E
 Ion 141.00 (140.70 to 141.70): E
 Ion 115.00 (114.70 to 115.70): E

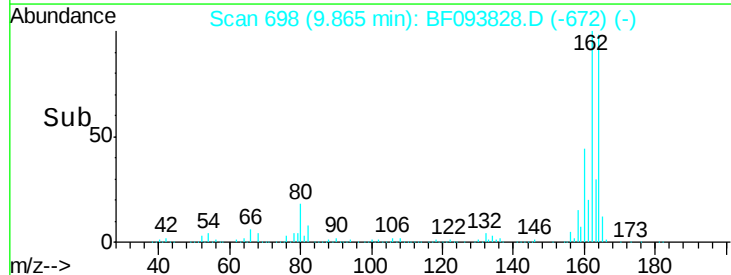
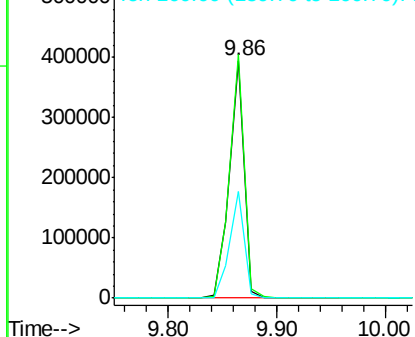


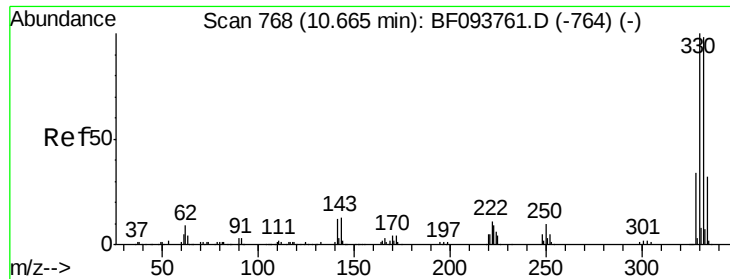
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.86 min Scan# 698
 Delta R.T. -0.00 min
 Lab File: BF093828.D
 Acq: 22 Mar 2017 10:30

Tgt Ion:164 Resp: 371882
 Ion Ratio Lower Upper
 164 100
 162 102.5 82.6 123.8
 160 44.9 36.2 54.2



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

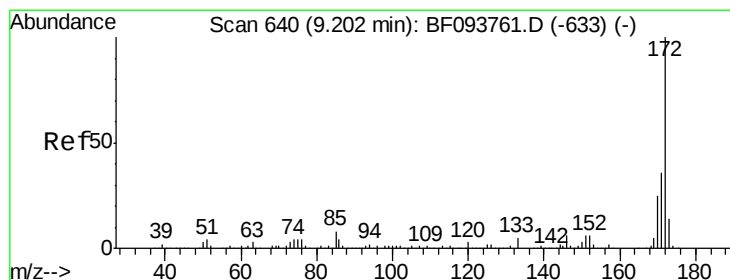
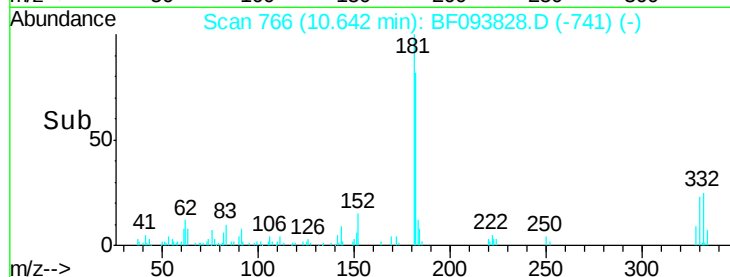
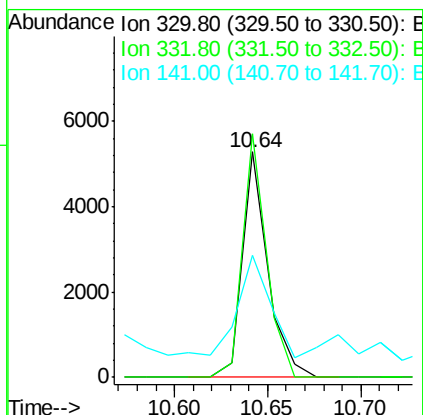
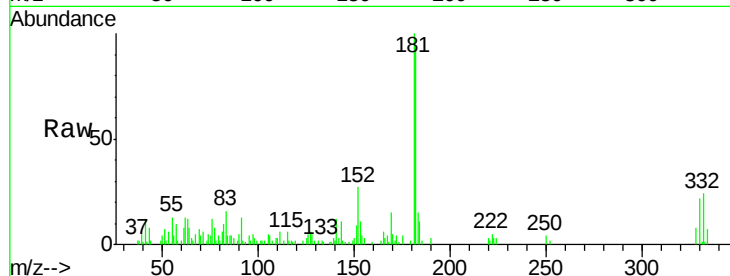




#41
 2,4,6-Tribromophenol
 Concen: 1.75 ng
 RT: 10.64 min Scan# 766
 Delta R.T. -0.01 min
 Lab File: BF093828.D
 Acq: 22 Mar 2017 10:30

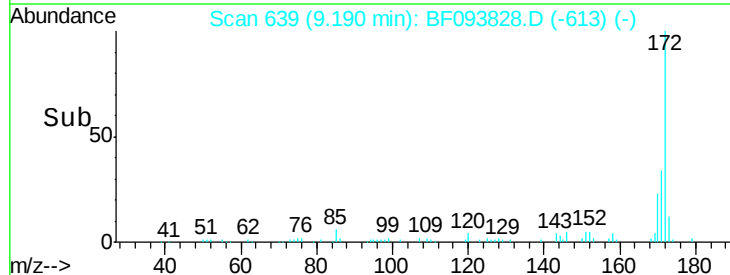
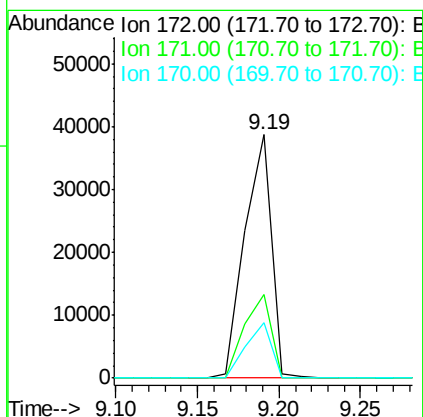
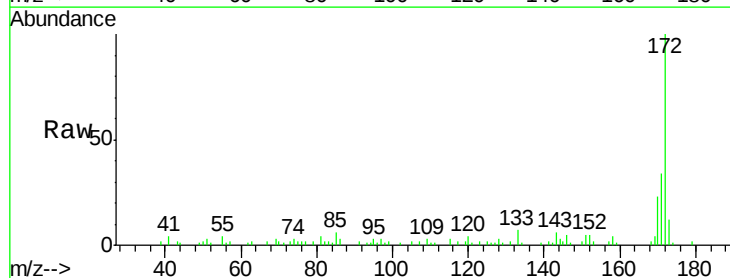
Instrument :
 BNA_F
 ClientSampleId :
 HP-PW-02DL

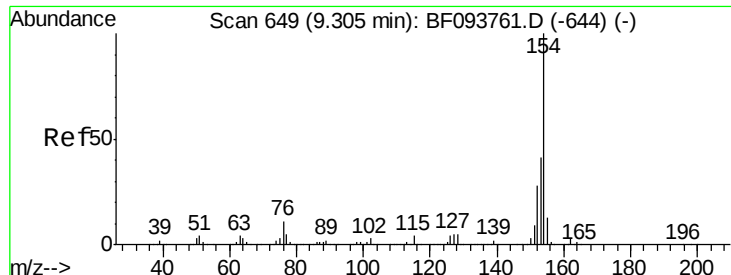
Tgt Ion:330 Resp: 5051
 Ion Ratio Lower Upper
 330 100
 332 100.7 76.6 115.0
 141 55.6 31.4 47.2#



#44
 2-Fluorobiphenyl
 Concen: 1.98 ng
 RT: 9.19 min Scan# 639
 Delta R.T. -0.00 min
 Lab File: BF093828.D
 Acq: 22 Mar 2017 10:30

Tgt Ion:172 Resp: 43768
 Ion Ratio Lower Upper
 172 100
 171 34.5 29.6 44.4
 170 22.6 19.8 29.8





#45

1,1'-Biphenyl

Concen: 4.73 ng

RT: 9.28 min Scan# 647

Delta R.T. -0.01 min

Lab File: BF093828.D

Acq: 22 Mar 2017 10:30

Instrument :

BNA_F

ClientSampleId :

HP-PW-02DL

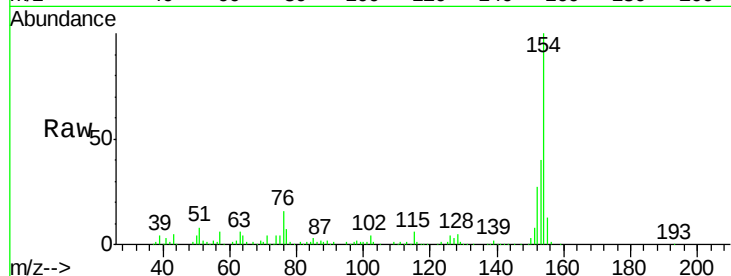
Tgt Ion:154 Resp: 142909

Ion Ratio Lower Upper

154 100

153 39.7 21.2 61.2

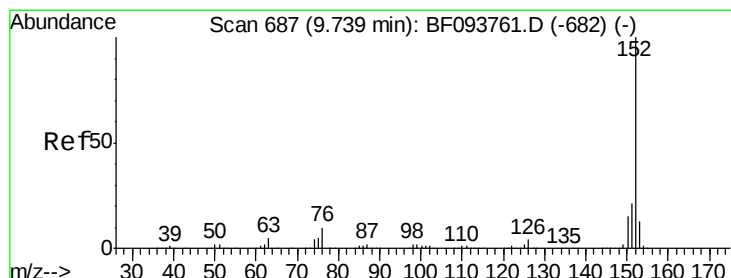
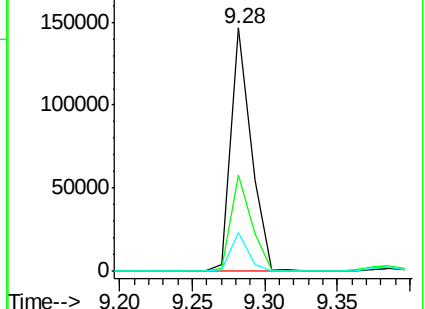
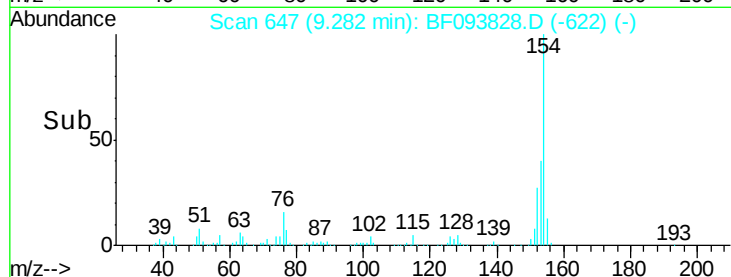
76 16.0 0.0 29.9



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): E



#48

Acenaphthylene

Concen: 2.71 ng

RT: 9.72 min Scan# 685

Delta R.T. -0.01 min

Lab File: BF093828.D

Acq: 22 Mar 2017 10:30

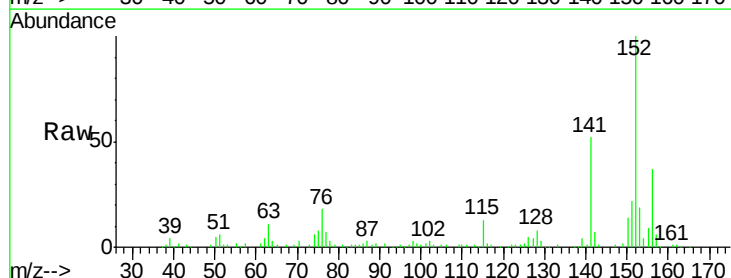
Tgt Ion:152 Resp: 102090

Ion Ratio Lower Upper

152 100

151 21.9 16.8 25.2

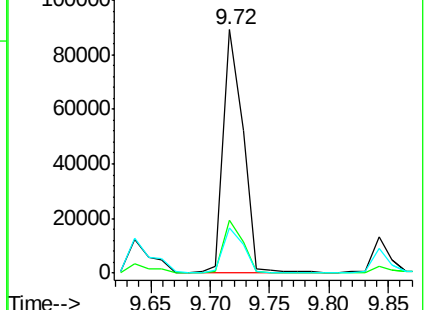
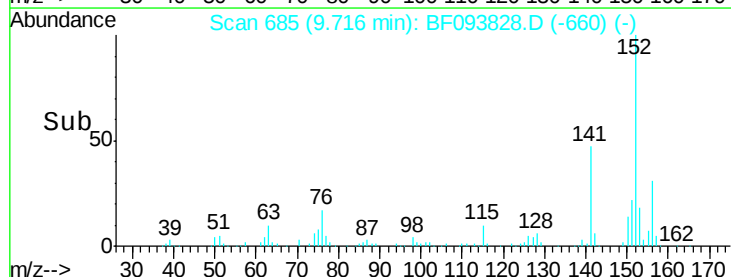
153 18.5 10.8 16.2#

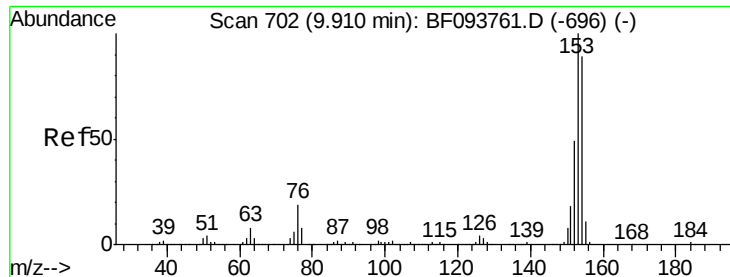


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#51

Acenaphthene

Concen: 2.23 ng

RT: 9.89 min Scan# 700

Delta R.T. -0.01 min

Lab File: BF093828.D

Acq: 22 Mar 2017 10:30

Instrument :

BNA_F

ClientSampled :

HP-PW-02DL

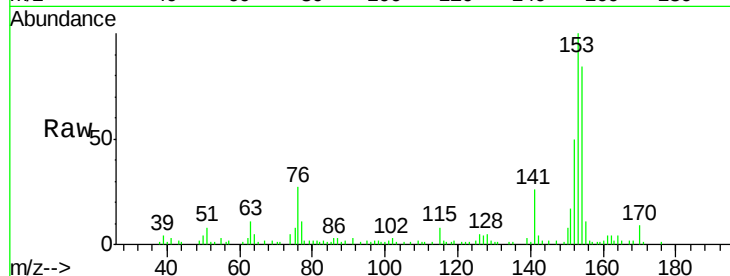
Tgt Ion:154 Resp: 50311

Ion Ratio Lower Upper

154 100

153 119.1 90.5 135.7

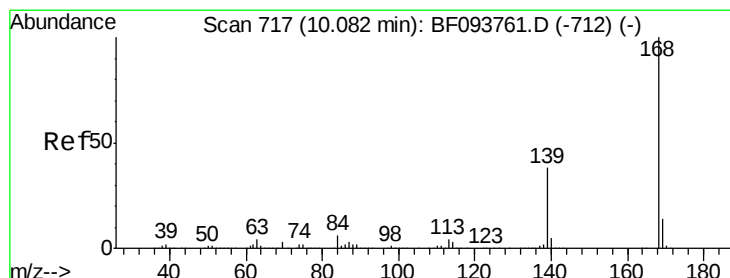
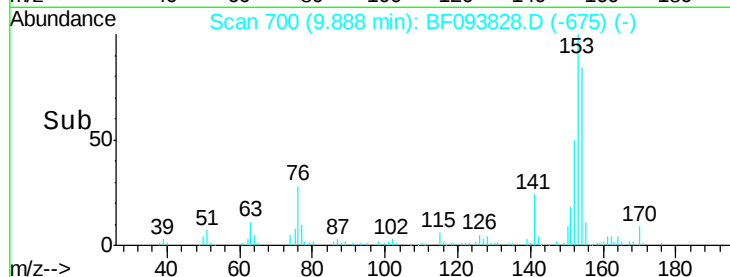
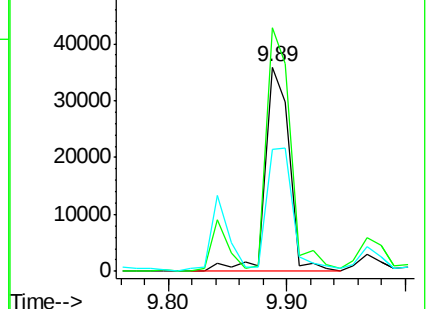
152 60.0 43.6 65.4



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 2.40 ng

RT: 10.06 min Scan# 715

Delta R.T. -0.01 min

Lab File: BF093828.D

Acq: 22 Mar 2017 10:30

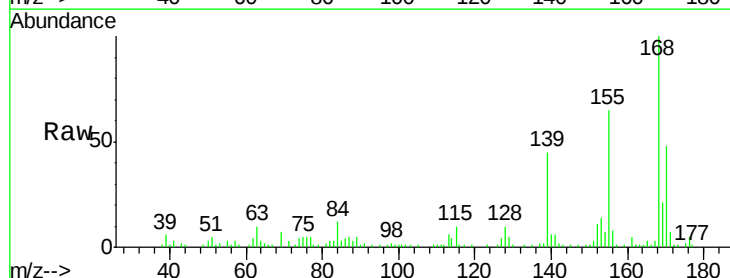
Tgt Ion:168 Resp: 72769

Ion Ratio Lower Upper

168 100

139 44.6 30.6 45.8

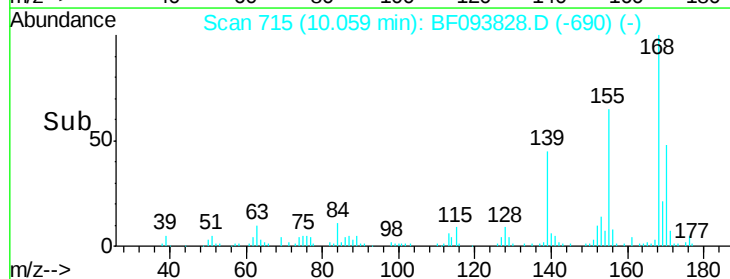
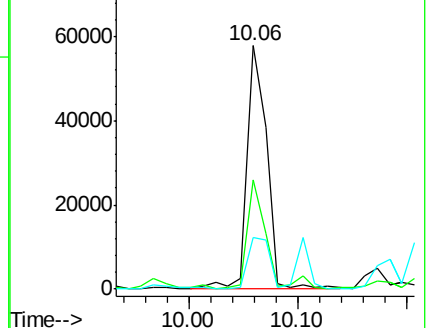
169 21.0 10.8 16.2#

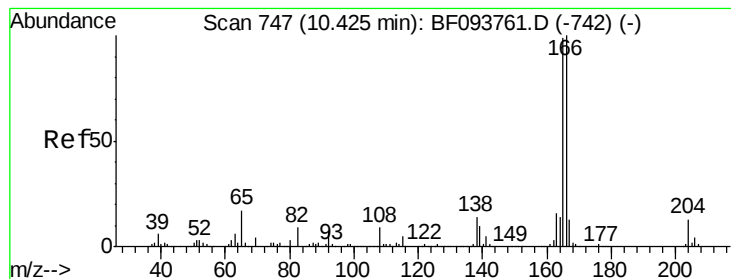


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 10.73 ng

RT: 10.40 min Scan# 745

Delta R.T. -0.01 min

Lab File: BF093828.D

Acq: 22 Mar 2017 10:30

Instrument :

BNA_F

ClientSampleId :

HP-PW-02DL

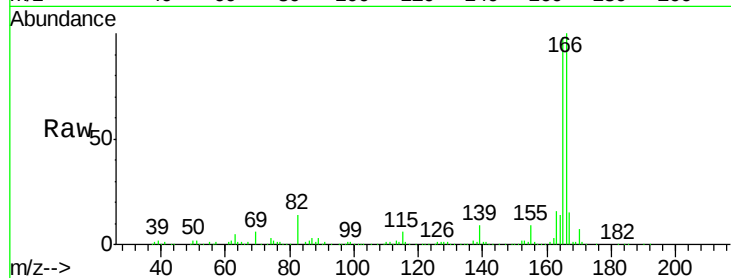
Tgt Ion:166 Resp: 248993

Ion Ratio Lower Upper

166 100

165 97.6 78.8 118.2

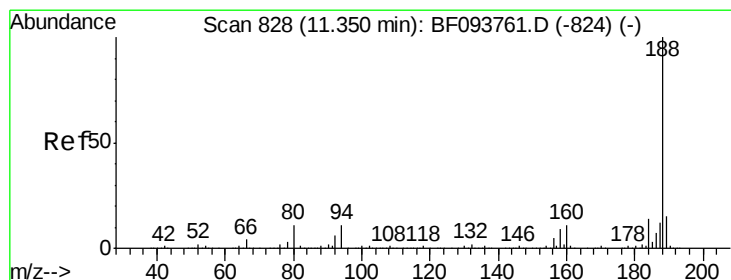
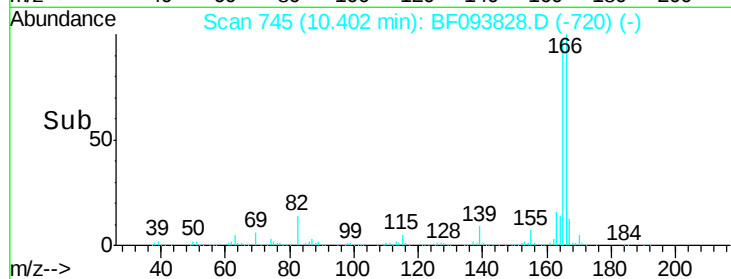
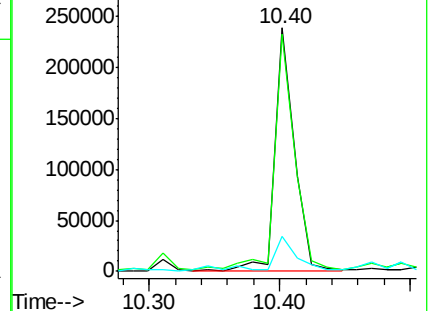
167 14.5 10.6 16.0



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.34 min Scan# 827

Delta R.T. -0.00 min

Lab File: BF093828.D

Acq: 22 Mar 2017 10:30

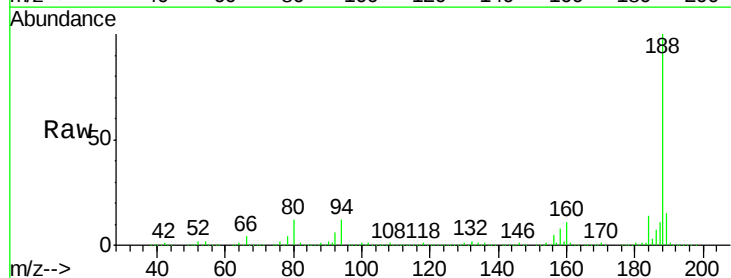
Tgt Ion:188 Resp: 568717

Ion Ratio Lower Upper

188 100

94 11.7 9.4 14.2

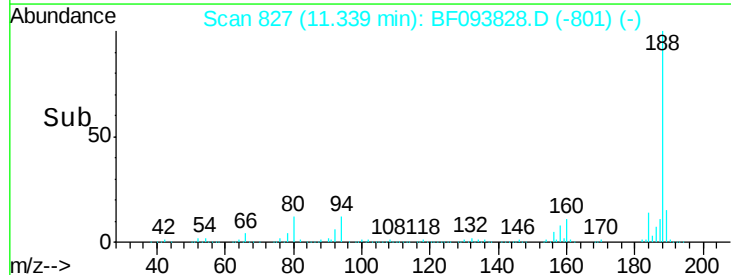
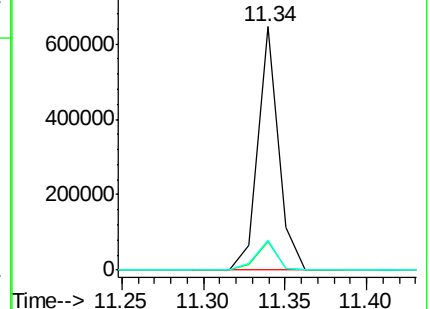
80 12.2 10.2 15.2

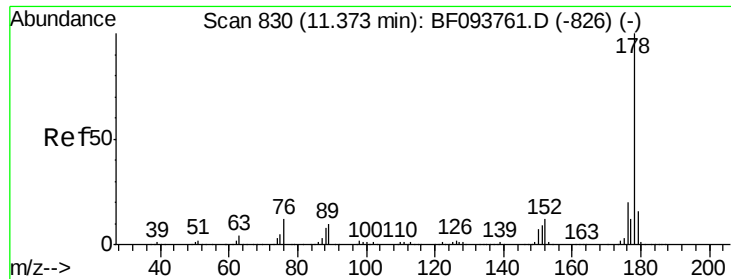


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 31.25 ng

RT: 11.36 min Scan# 829

Delta R.T. -0.00 min

Lab File: BF093828.D

Acq: 22 Mar 2017 10:30

Instrument :

BNA_F

ClientSampleId :

HP-PW-02DL

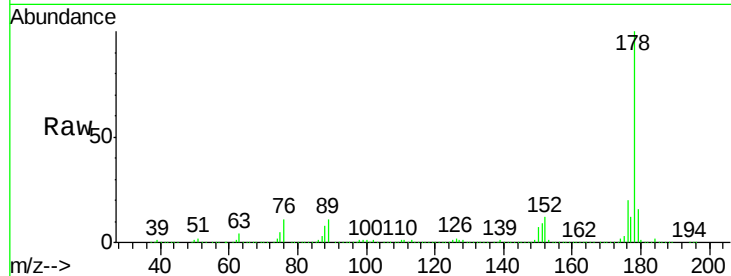
Tgt Ion:178 Resp: 946646

Ion Ratio Lower Upper

178 100

176 20.0 16.2 24.4

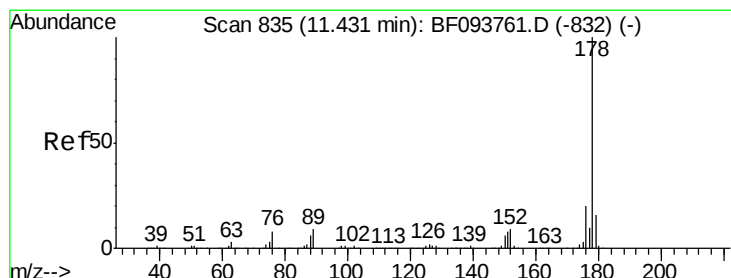
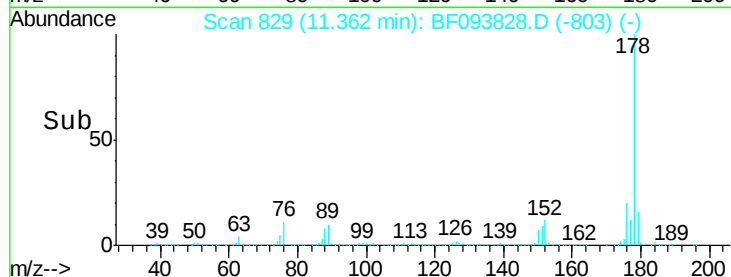
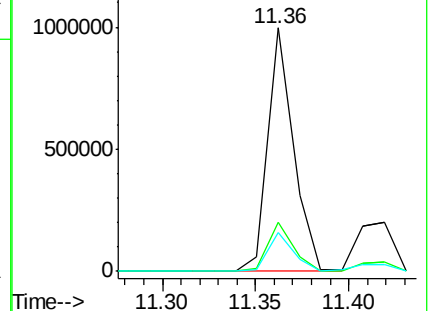
179 16.0 12.6 19.0



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 8.28 ng

RT: 11.42 min Scan# 834

Delta R.T. -0.00 min

Lab File: BF093828.D

Acq: 22 Mar 2017 10:30

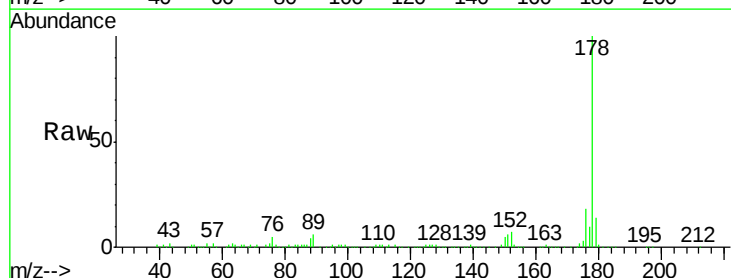
Tgt Ion:178 Resp: 258041

Ion Ratio Lower Upper

178 100

176 18.1 15.8 23.8

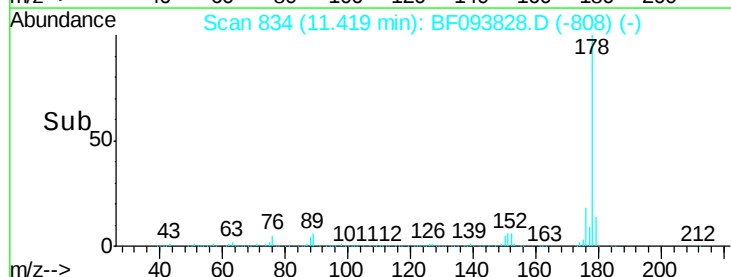
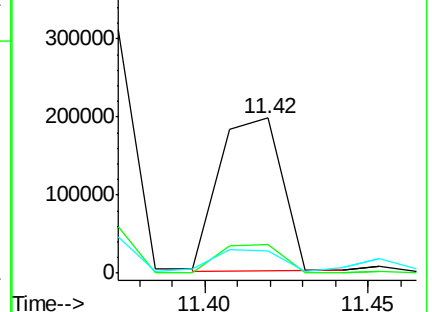
179 14.5 12.7 19.1

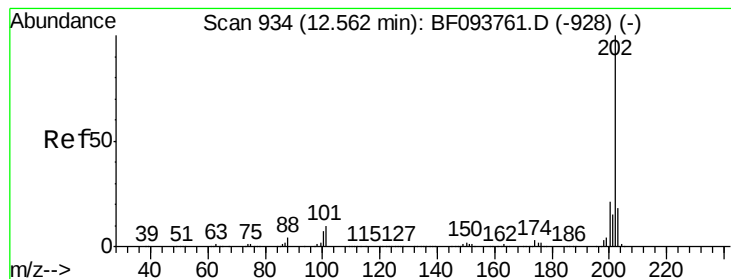


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 15.33 ng

RT: 12.55 min Scan# 933

Delta R.T. -0.00 min

Lab File: BF093828.D

Acq: 22 Mar 2017 10:30

Instrument :

BNA_F

ClientSampleId :

HP-PW-02DL

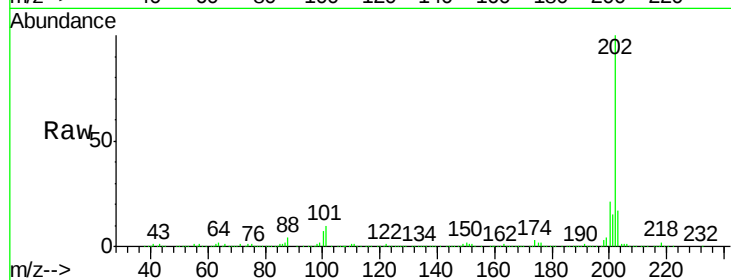
Tgt Ion:202 Resp: 477362

Ion Ratio Lower Upper

202 100

101 10.2 0.0 33.2

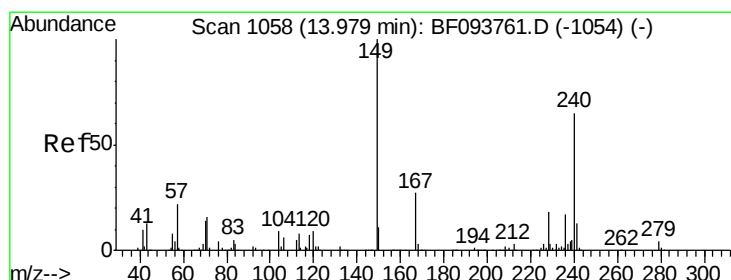
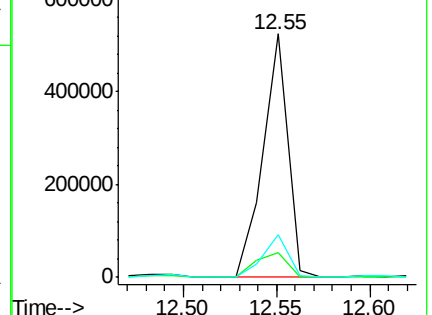
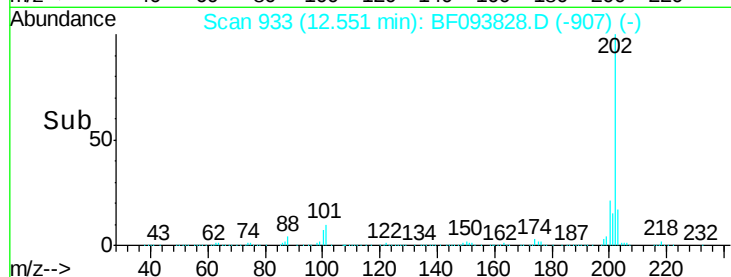
203 17.4 0.0 38.1



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: 13.97 min Scan# 1057

Delta R.T. -0.00 min

Lab File: BF093828.D

Acq: 22 Mar 2017 10:30

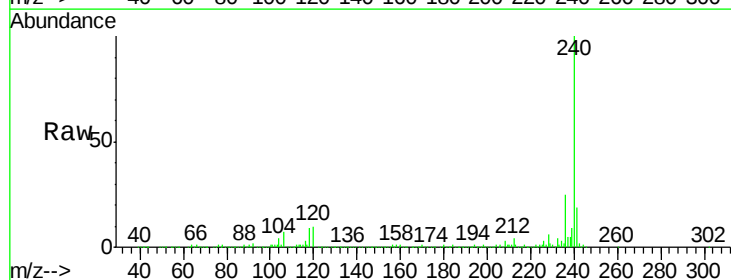
Tgt Ion:240 Resp: 377286

Ion Ratio Lower Upper

240 100

120 9.8 5.8 8.8#

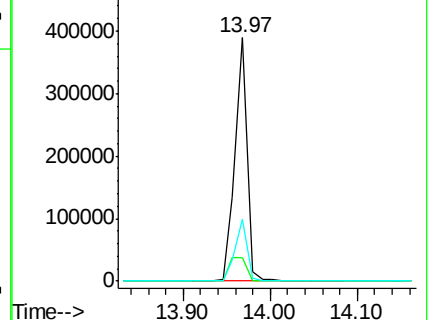
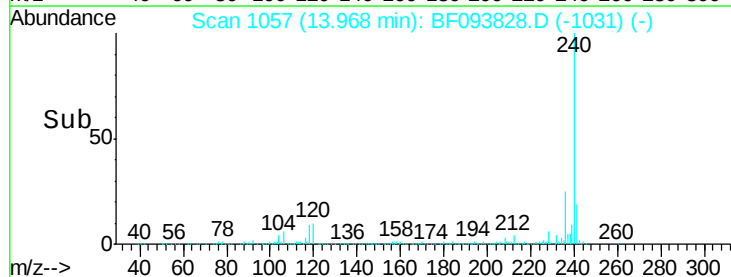
236 25.3 20.5 30.7

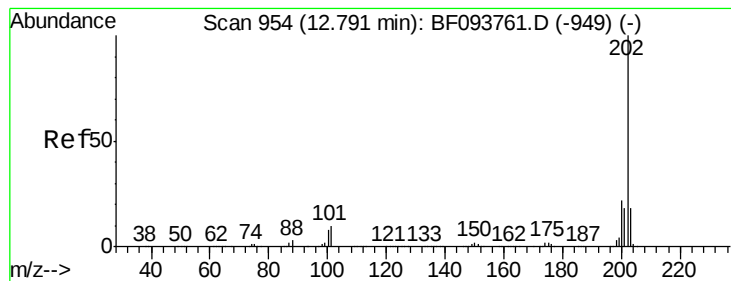


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 17.95 ng

RT: 12.77 min Scan# 952

Delta R.T. -0.01 min

Lab File: BF093828.D

Acq: 22 Mar 2017 10:30

Instrument :

BNA_F

ClientSampleId :

HP-PW-02DL

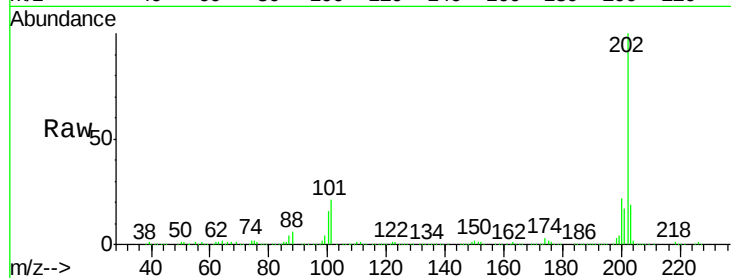
Tgt Ion:202 Resp: 563588

Ion Ratio Lower Upper

202 100

200 21.5 17.6 26.4

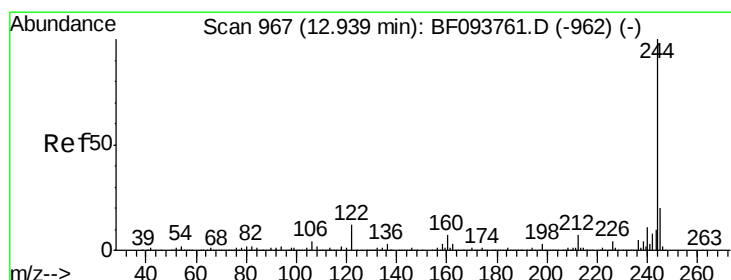
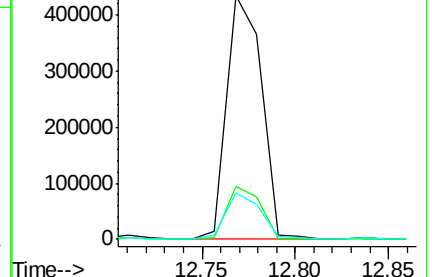
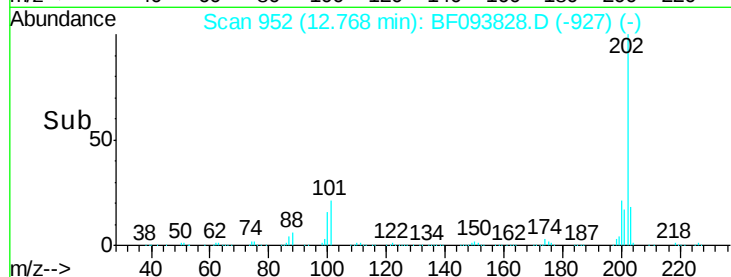
203 18.9 14.4 21.6



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: 1.54 ng

RT: 12.92 min Scan# 965

Delta R.T. -0.01 min

Lab File: BF093828.D

Acq: 22 Mar 2017 10:30

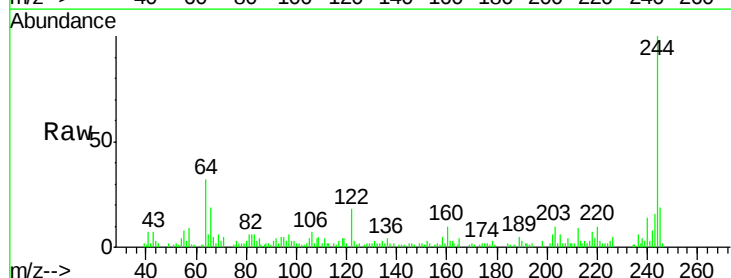
Tgt Ion:244 Resp: 28519

Ion Ratio Lower Upper

244 100

212 8.6 6.0 9.0

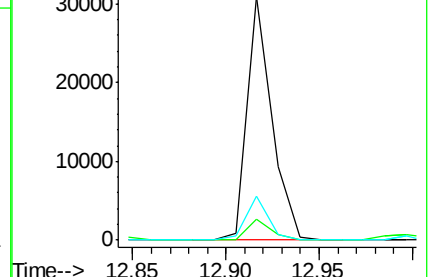
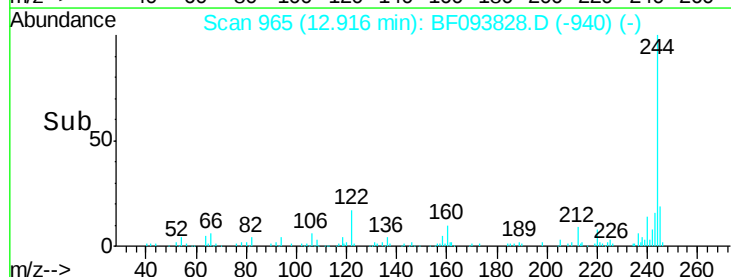
122 17.9 10.3 15.5#

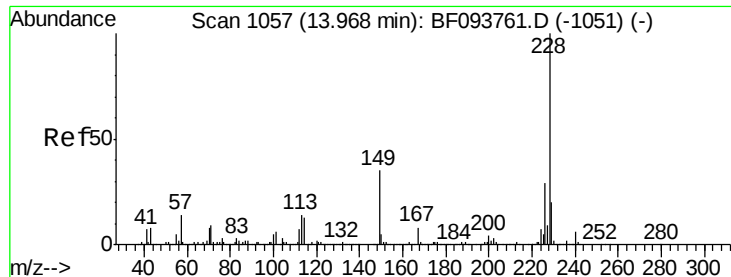


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 7.30 ng m

RT: 13.96 min Scan# 1056

Delta R.T. -0.00 min

Lab File: BF093828.D

Acq: 22 Mar 2017 10:30

Instrument :

BNA_F

ClientSampleId :

HP-PW-02DL

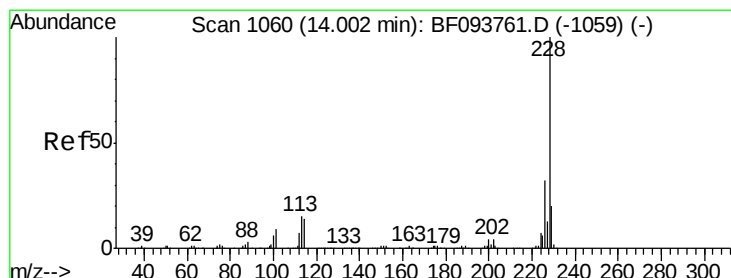
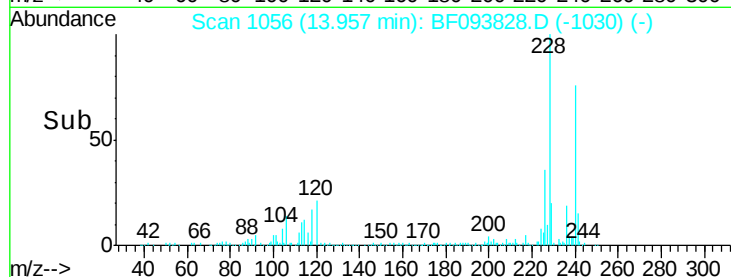
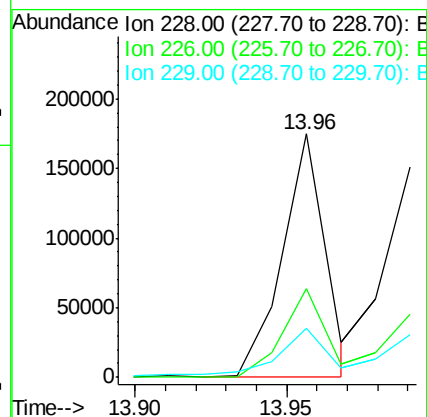
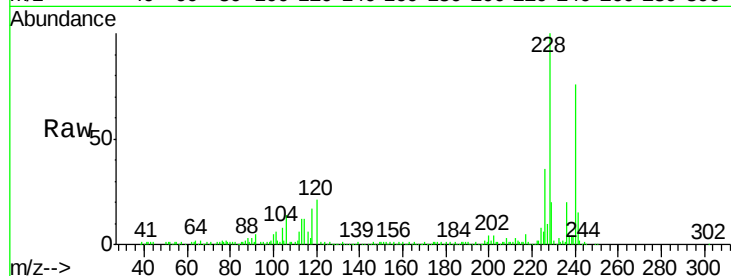
Tgt Ion:228 Resp: 172563

Ion Ratio Lower Upper

228 100

226 36.3 22.6 33.8#

229 20.1 16.3 24.5



#82

Chrysene

Concen: 6.49 ng m

RT: 13.99 min Scan# 1059

Delta R.T. -0.01 min

Lab File: BF093828.D

Acq: 22 Mar 2017 10:30

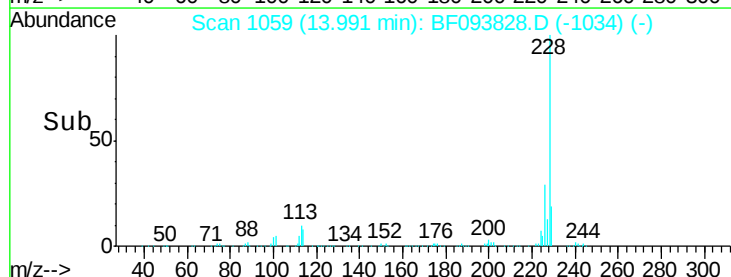
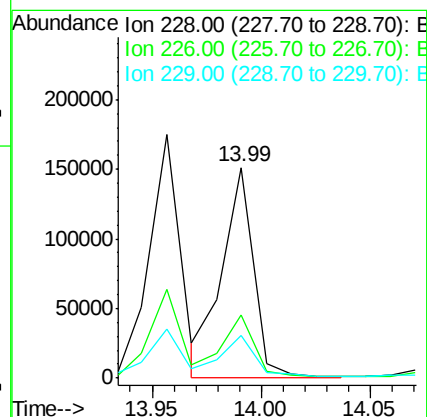
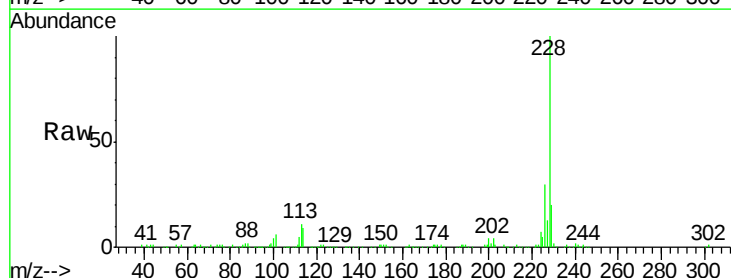
Tgt Ion:228 Resp: 153316

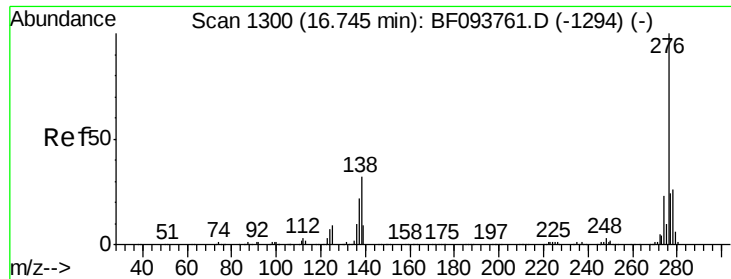
Ion Ratio Lower Upper

228 100

226 29.8 24.9 37.3

229 20.3 15.8 23.6

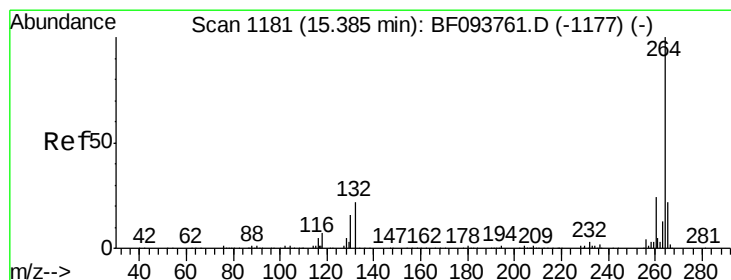
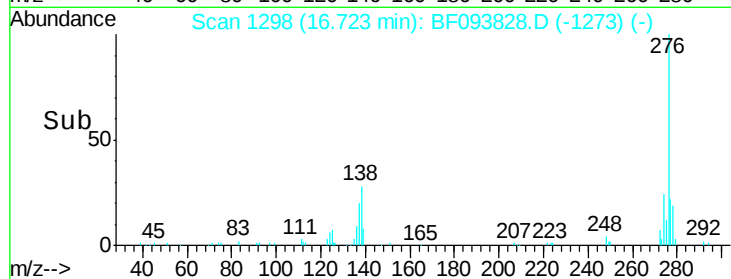
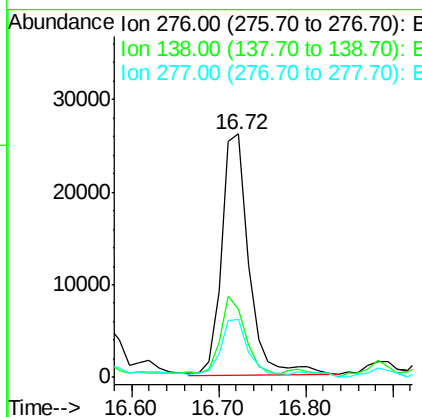
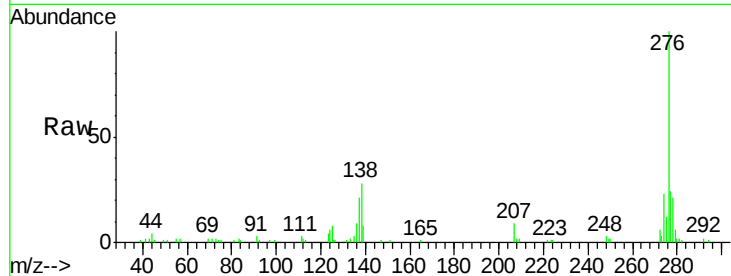




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 2.92 ng
 RT: 16.72 min Scan# 1298
 Delta R.T. -0.01 min
 Lab File: BF093828.D
 Acq: 22 Mar 2017 10:30

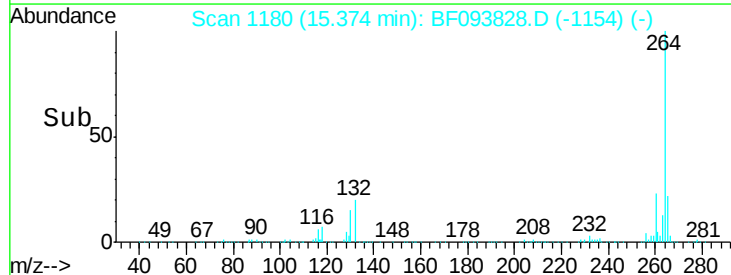
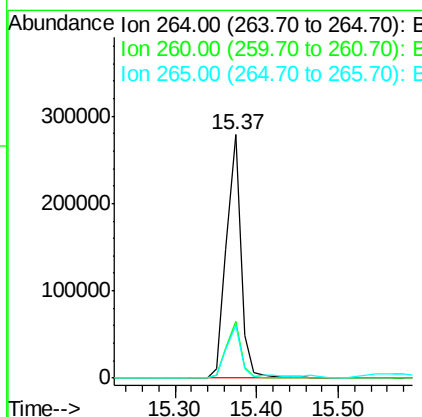
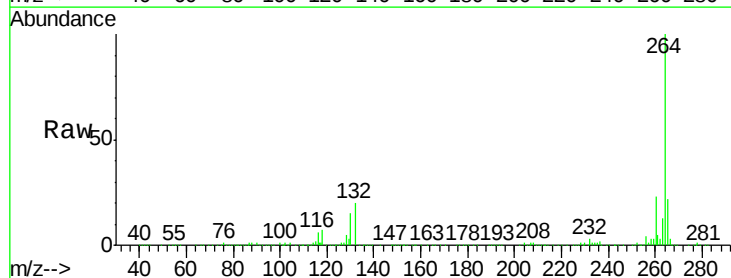
Instrument :
 BNA_F
 ClientSampleId :
 HP-PW-02DL

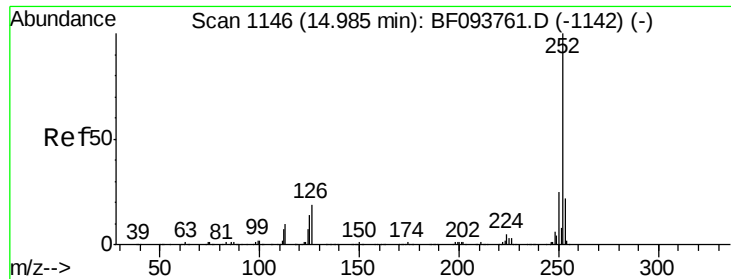
Tgt Ion: 276 Resp: 56543
 Ion Ratio Lower Upper
 276 100
 138 29.1 27.8 41.6
 277 24.3 20.2 30.4



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.37 min Scan# 1180
 Delta R.T. -0.00 min
 Lab File: BF093828.D
 Acq: 22 Mar 2017 10:30

Tgt Ion: 264 Resp: 345650
 Ion Ratio Lower Upper
 264 100
 260 23.3 19.5 29.3
 265 21.9 17.2 25.8

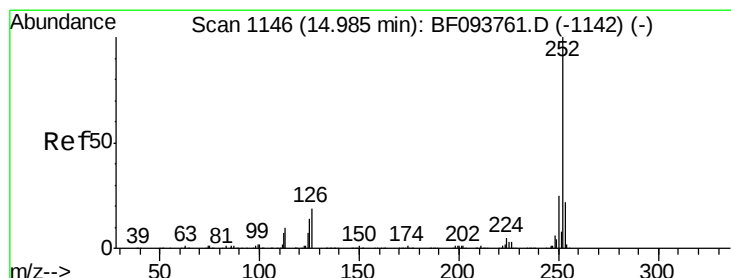
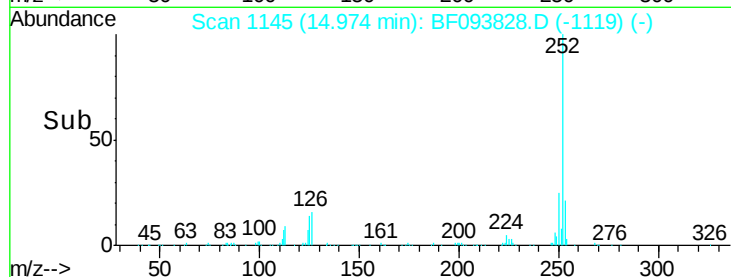
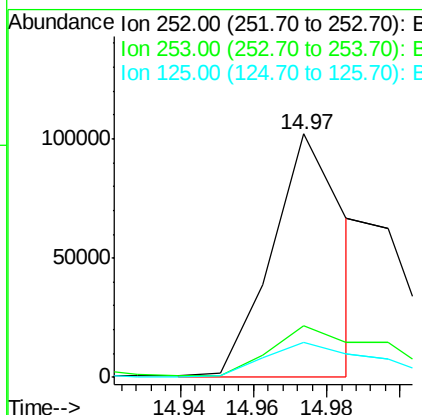
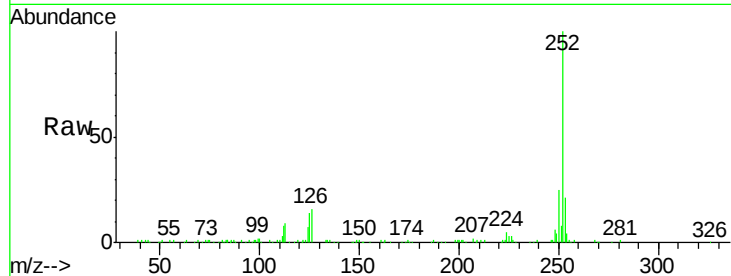




#87
Benzo(b)fluoranthene
Concen: 6.16 ng m
RT: 14.97 min Scan# 1145
Delta R.T. -0.00 min
Lab File: BF093828.D
Acq: 22 Mar 2017 10:30

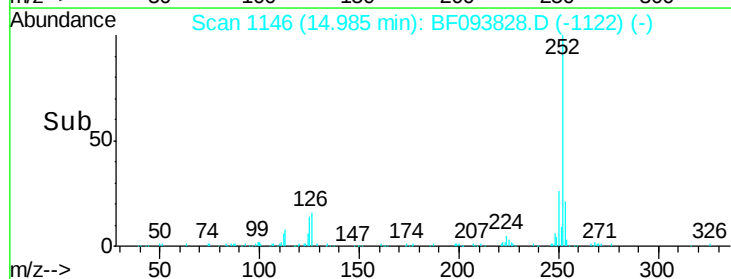
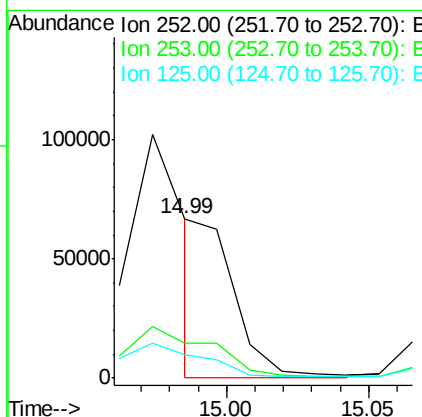
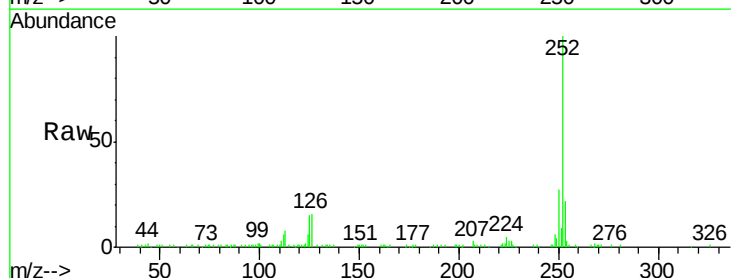
Instrument :
BNA_F
ClientSampleId :
HP-PW-02DL

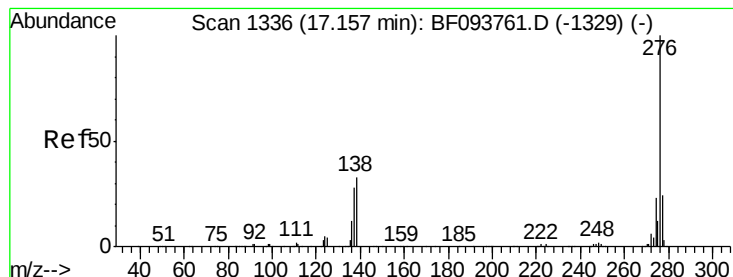
Tgt Ion:252 Resp: 143639
Ion Ratio Lower Upper
252 100
253 21.4 18.1 27.1
125 14.3 9.8 14.8



#88
Benzo(k)fluoranthene
Concen: 3.28 ng m
RT: 14.99 min Scan# 1146
Delta R.T. -0.02 min
Lab File: BF093828.D
Acq: 22 Mar 2017 10:30

Tgt Ion:252 Resp: 56509
Ion Ratio Lower Upper
252 100
253 21.9 18.4 27.6
125 14.5 13.1 19.7





#91

Benzo(g,h,i)perylene

Concen: 3.44 ng

RT: 17.12 min Scan# 1333

Delta R.T. -0.02 min

Lab File: BF093828.D

Acq: 22 Mar 2017 10:30

Instrument :

BNA_F

ClientSampleId :

HP-PW-02DL

Tgt Ion: 276 Resp: 53632

Ion Ratio Lower Upper

276 100

277 23.9 18.6 28.0

138 27.9 25.4 38.0

