

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF032117\
 Data File : BF093825.D
 Acq On : 22 Mar 2017 9:08
 Operator : SJ/MA
 Sample : I2318-03DL 100X
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HP-CT-01DL

Quant Time: Mar 22 14:42:08 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	201536	20.00	ng	0.00
21) Naphthalene-d8	8.12	136	832458	20.00	ng	0.00
38) Acenaphthene-d10	9.86	164	376549	20.00	ng	0.00
63) Phenanthrene-d10	11.34	188	570063	20.00	ng	0.00
75) Chrysene-d12	13.97	240	377560	20.00	ng	0.00
86) Perylene-d12	15.37	264	358981	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.41	112	11579	1.00	ng	-0.01
7) Phenol-d6	6.45	99	16524	1.16	ng	-0.01
23) Nitrobenzene-d5	7.38	82	9019	0.61	ng	-0.01
41) 2,4,6-Tribromophenol	10.64	330	2038	0.70	ng	-0.01
44) 2-Fluorobiphenyl	9.19	172	21716	0.97	ng	0.00
78) Terphenyl-d14	12.92	244	14083	0.76	ng	-0.01

Target Compounds

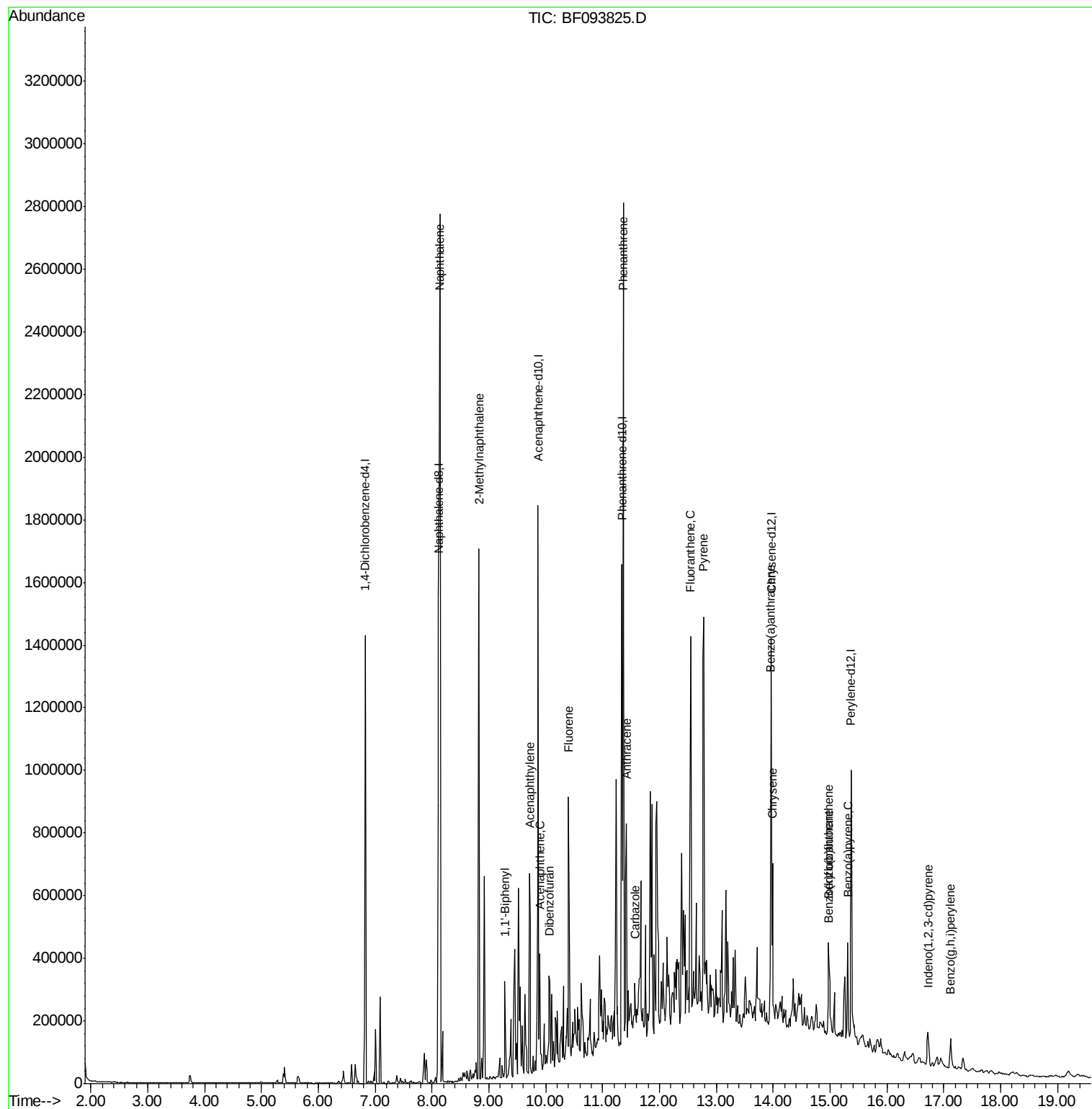
						Qvalue
31) Naphthalene	8.14	128	1661186	42.99	ng	100
37) 2-Methylnaphthalene	8.82	142	420910	16.69	ng	98
45) 1,1'-Biphenyl	9.28	154	99216	3.24	ng	94
48) Acenaphthylene	9.72	152	321462	8.42	ng	98
51) Acenaphthene	9.90	154	107476	4.71	ng	95
54) Dibenzofuran	10.07	168	109874	3.58	ng	# 88
57) Fluorene	10.40	166	333077	14.17	ng	99
70) Phenanthrene	11.36	178	1182685	38.96	ng	99
71) Anthracene	11.42	178	345680	11.06	ng	97
72) Carbazole	11.57	167	61957	2.00	ng	99
74) Fluoranthene	12.55	202	574118	18.40	ng	96
77) Pyrene	12.78	202	748959	23.84	ng	99
80) Benzo(a)anthracene	13.96	228	209468m	8.86	ng	
82) Chrysene	13.99	228	200489m	8.48	ng	
85) Indeno(1,2,3-cd)pyrene	16.72	276	60255	3.11	ng	98
87) Benzo(b)fluoranthene	14.97	252	154032m	6.36	ng	
88) Benzo(k)fluoranthene	14.99	252	71877m	4.02	ng	
89) Benzo(a)pyrene	15.32	252	170397	8.68	ng	97
91) Benzo(g,h,i)perylene	17.12	276	71443	4.42	ng	99

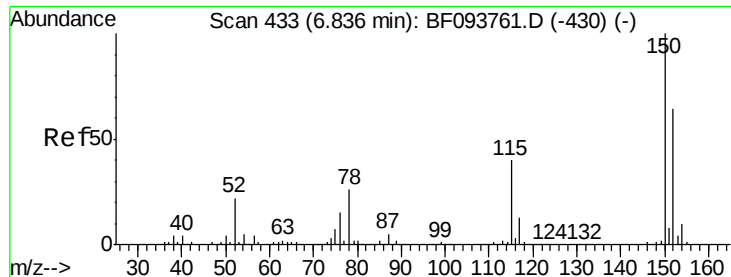
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.82 min Scan# 432

Delta R.T. -0.00 min

Lab File: BF093825.D

Acq: 22 Mar 2017 9:08

Instrument :

BNA_F

ClientSampleId :

HP-CT-01DL

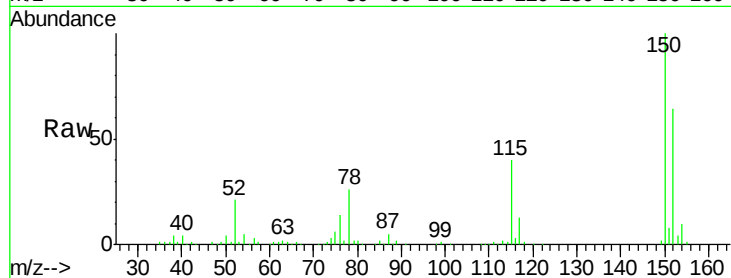
Tgt Ion:152 Resp: 201536

Ion Ratio Lower Upper

152 100

150 155.9 126.2 189.2

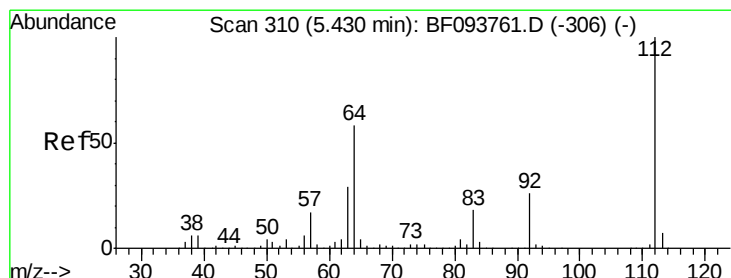
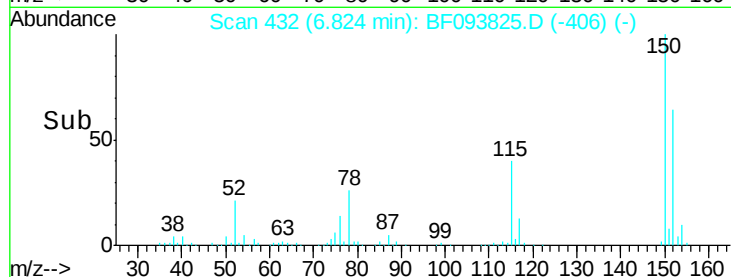
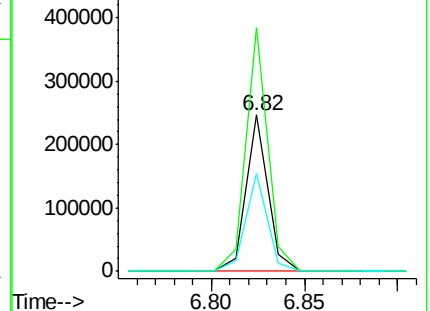
115 62.8 52.2 78.2



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: 1.00 ng

RT: 5.41 min Scan# 308

Delta R.T. -0.01 min

Lab File: BF093825.D

Acq: 22 Mar 2017 9:08

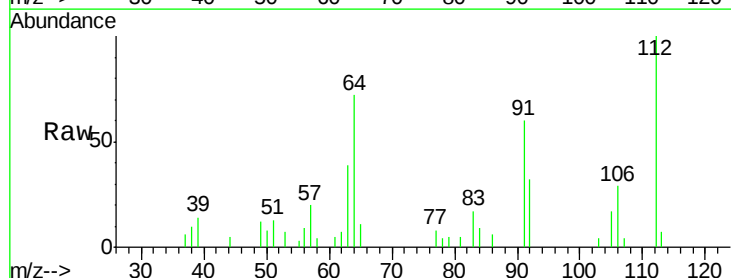
Tgt Ion:112 Resp: 11579

Ion Ratio Lower Upper

112 100

64 72.1 46.0 69.0#

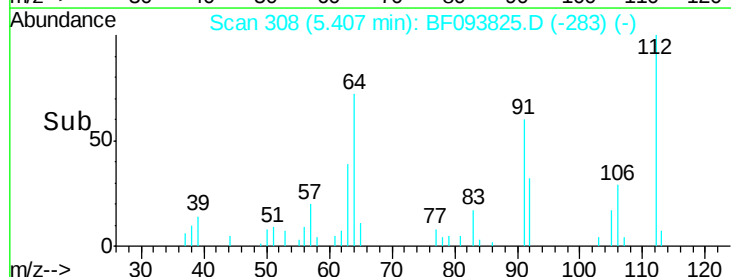
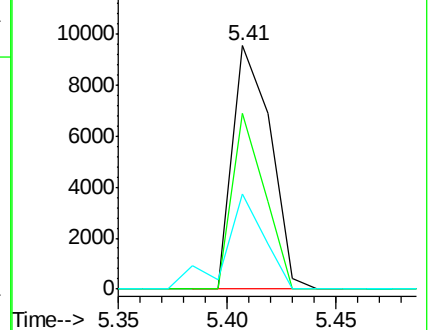
63 39.1 23.4 35.0#

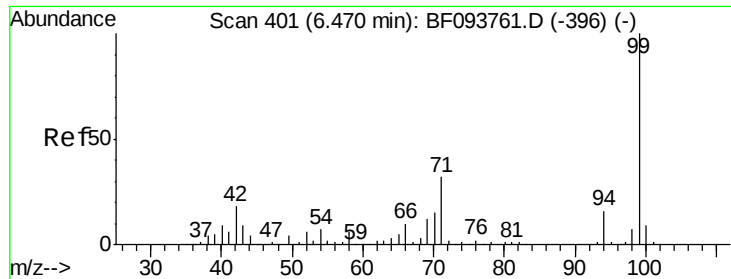


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 1.16 ng

RT: 6.45 min Scan# 399

Delta R.T. -0.01 min

Lab File: BF093825.D

Acq: 22 Mar 2017 9:08

Instrument :

BNA_F

ClientSampleId :

HP-CT-01DL

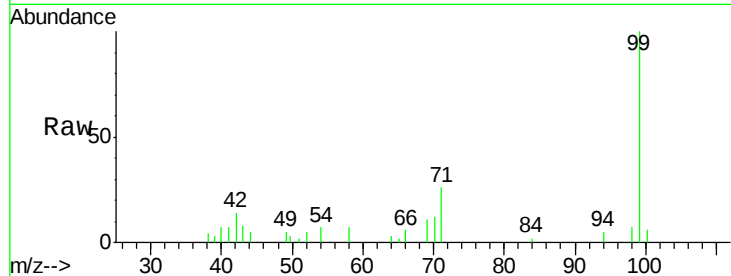
Tgt Ion: 99 Resp: 16524

Ion Ratio Lower Upper

99 100

42 14.1 13.5 20.3

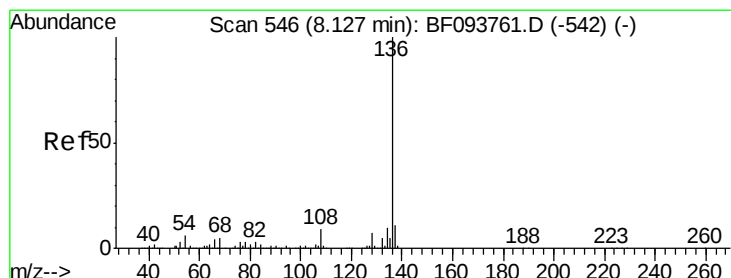
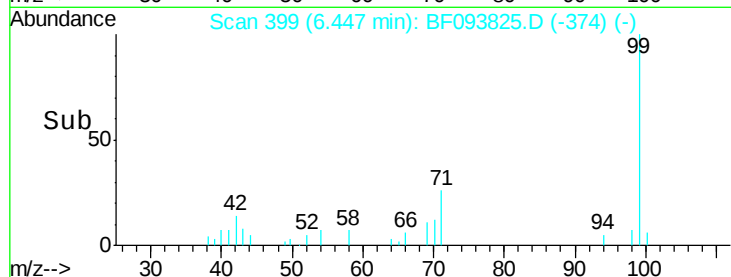
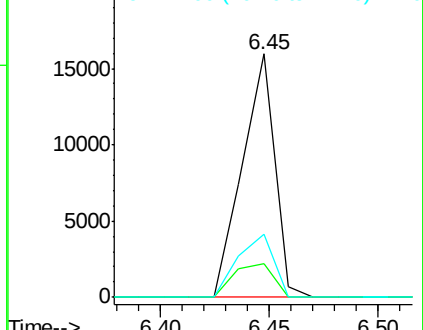
71 25.9 24.5 36.7



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: BF093825.D

Acq: 22 Mar 2017 9:08

Tgt Ion: 136 Resp: 832458

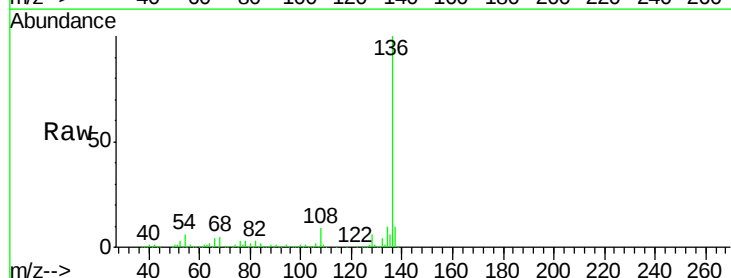
Ion Ratio Lower Upper

136 100

137 10.5 8.5 12.7

54 5.8 4.9 7.3

68 4.9 4.1 6.1

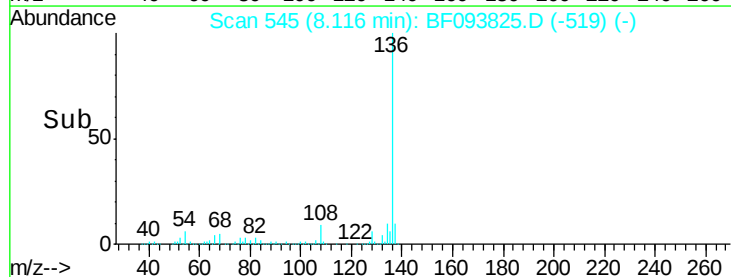
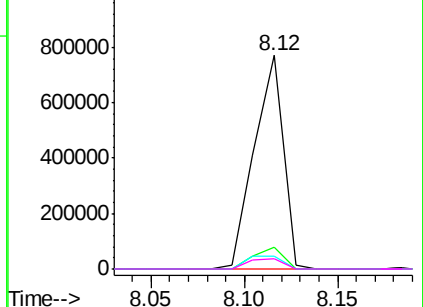


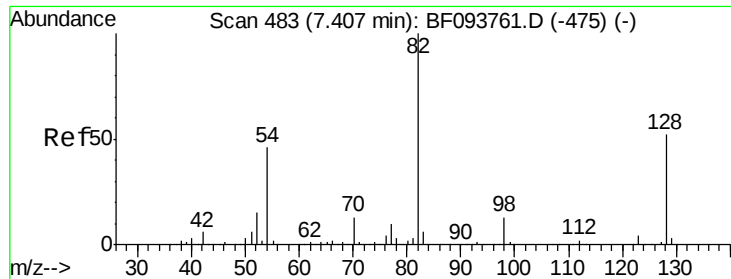
Abundance Ion 136.00 (135.70 to 136.70): E

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

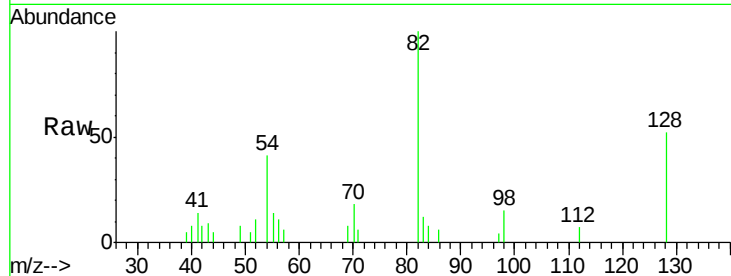




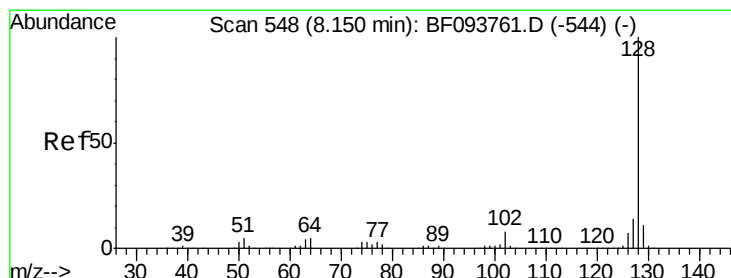
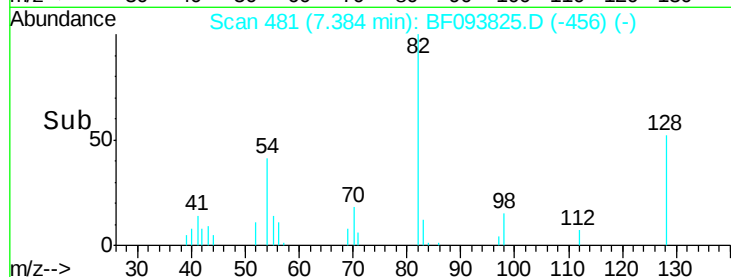
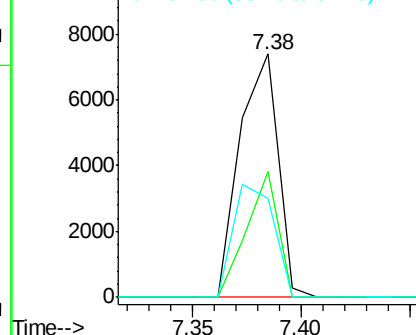
#23
Nitrobenzene-d5
Concen: 0.61 ng
RT: 7.38 min Scan# 481
Delta R.T. -0.01 min
Lab File: BF093825.D
Acq: 22 Mar 2017 9:08

Instrument :
BNA_F
ClientSampleId :
HP-CT-01DL

Tgt Ion: 82 Resp: 9019
Ion Ratio Lower Upper
82 100
128 51.8 34.0 51.0#
54 40.7 42.2 63.2#

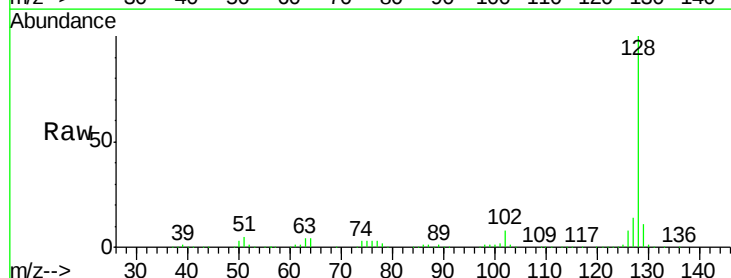


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

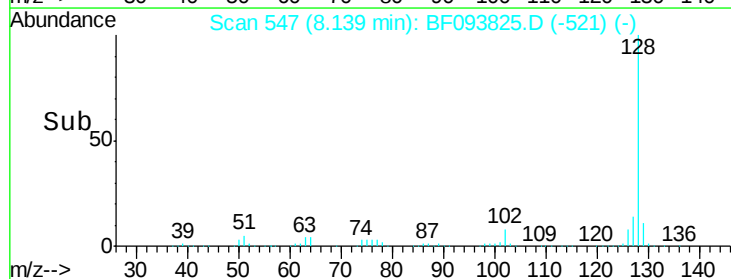
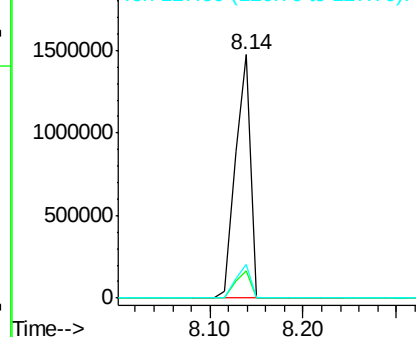


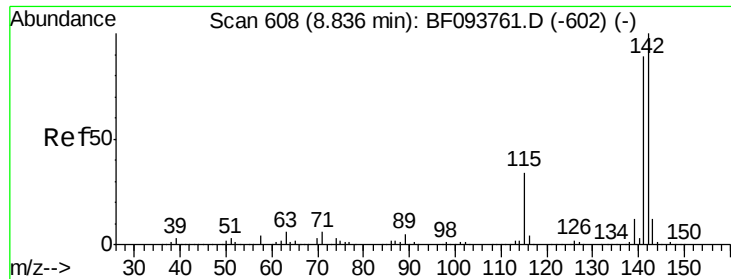
#31
Naphthalene
Concen: 42.99 ng
RT: 8.14 min Scan# 547
Delta R.T. -0.00 min
Lab File: BF093825.D
Acq: 22 Mar 2017 9:08

Tgt Ion: 128 Resp: 1661186
Ion Ratio Lower Upper
128 100
129 11.2 9.0 13.6
127 13.6 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

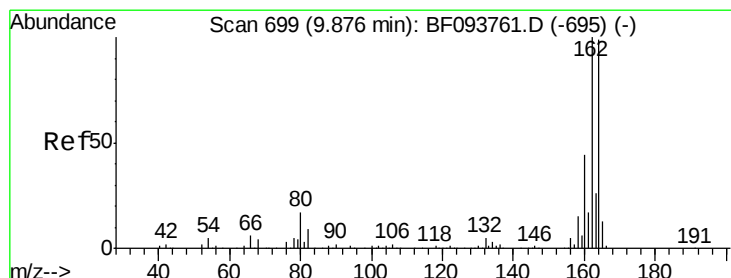
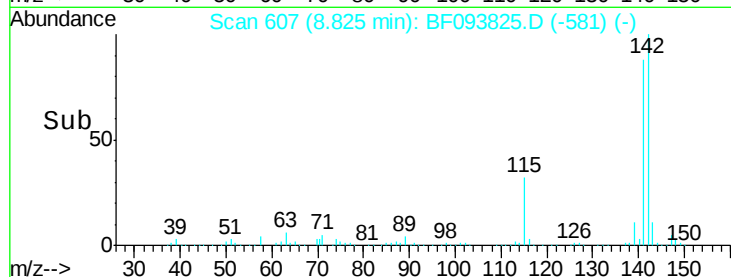
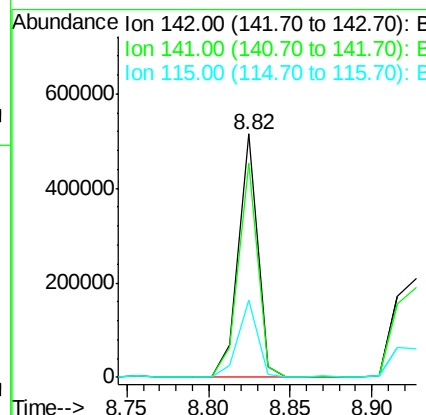
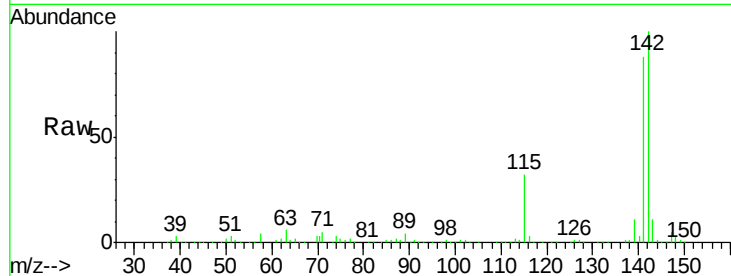




#37
 2-Methylnaphthalene
 Concen: 16.69 ng
 RT: 8.82 min Scan# 607
 Delta R.T. -0.00 min
 Lab File: BF093825.D
 Acq: 22 Mar 2017 9:08

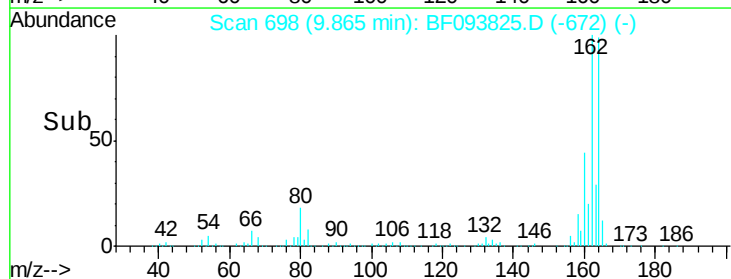
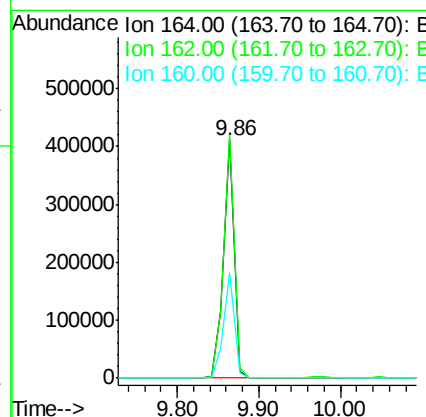
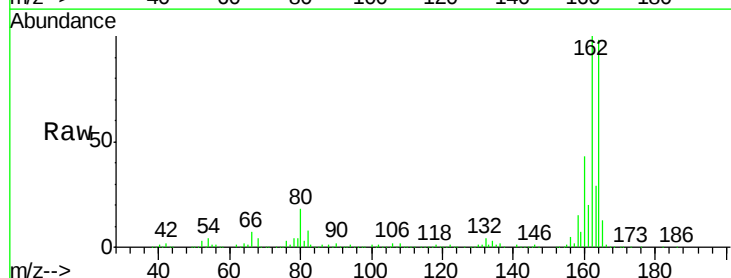
Instrument :
 BNA_F
 ClientSampleId :
 HP-CT-01DL

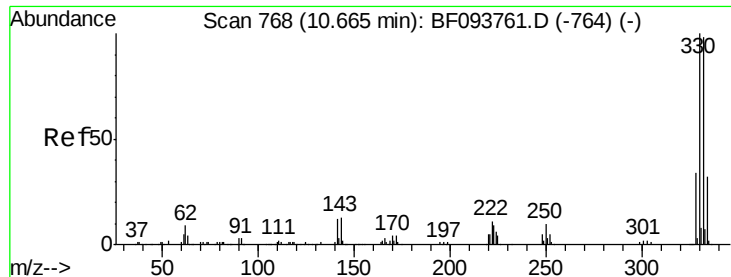
Tgt Ion:142 Resp: 420910
 Ion Ratio Lower Upper
 142 100
 141 88.1 71.3 106.9
 115 31.7 27.1 40.7



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.86 min Scan# 698
 Delta R.T. -0.00 min
 Lab File: BF093825.D
 Acq: 22 Mar 2017 9:08

Tgt Ion:164 Resp: 376549
 Ion Ratio Lower Upper
 164 100
 162 102.3 82.6 123.8
 160 44.4 36.2 54.2

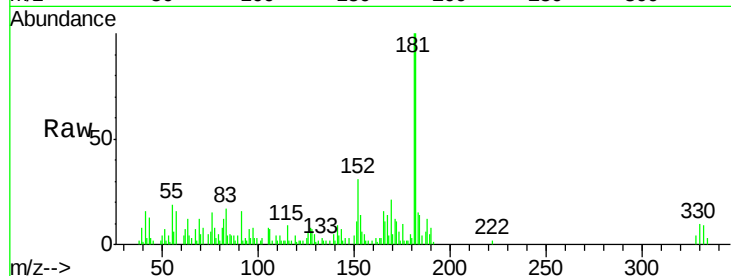




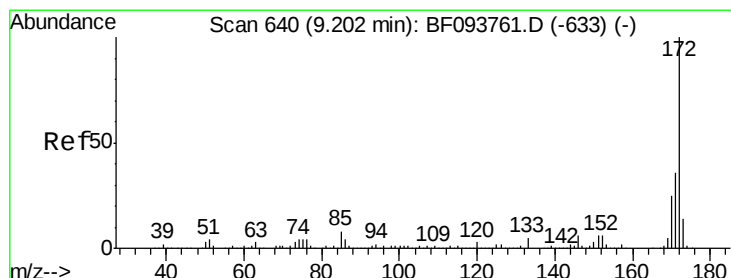
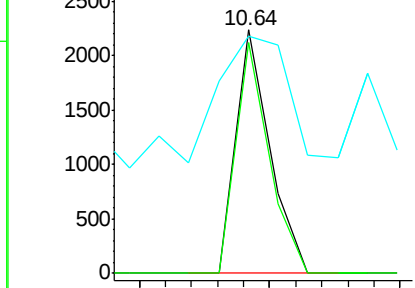
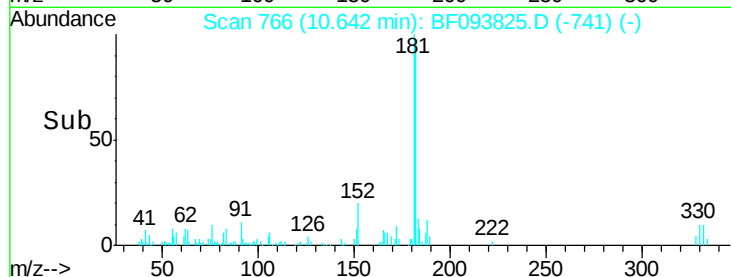
#41
 2,4,6-Tribromophenol
 Concen: 0.70 ng
 RT: 10.64 min Scan# 766
 Delta R.T. -0.01 min
 Lab File: BF093825.D
 Acq: 22 Mar 2017 9:08

Instrument :
 BNA_F
 ClientSampleId :
 HP-CT-01DL

Tgt Ion: 330 Resp: 2038
 Ion Ratio Lower Upper
 330 100
 332 93.1 76.6 115.0
 141 127.6 31.4 47.2#

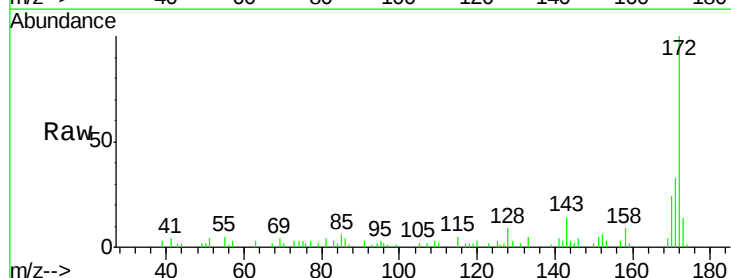


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

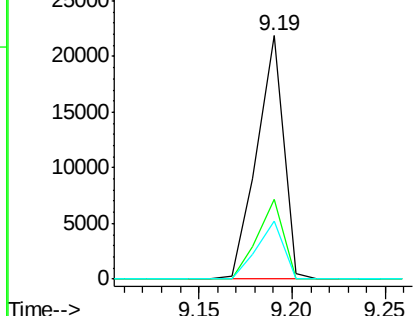
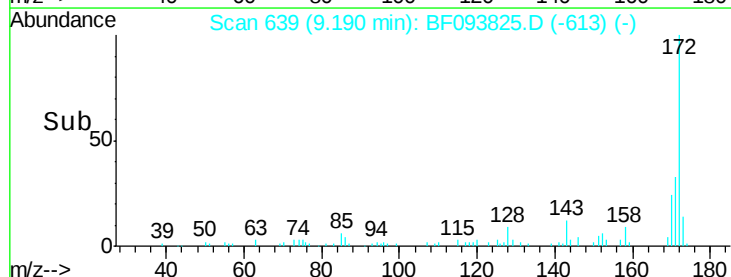


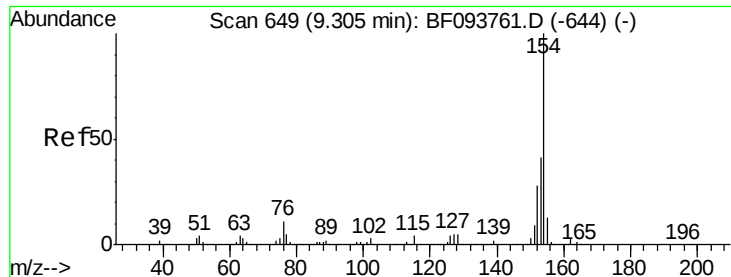
#44
 2-Fluorobiphenyl
 Concen: 0.97 ng
 RT: 9.19 min Scan# 639
 Delta R.T. -0.00 min
 Lab File: BF093825.D
 Acq: 22 Mar 2017 9:08

Tgt Ion: 172 Resp: 21716
 Ion Ratio Lower Upper
 172 100
 171 32.8 29.6 44.4
 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

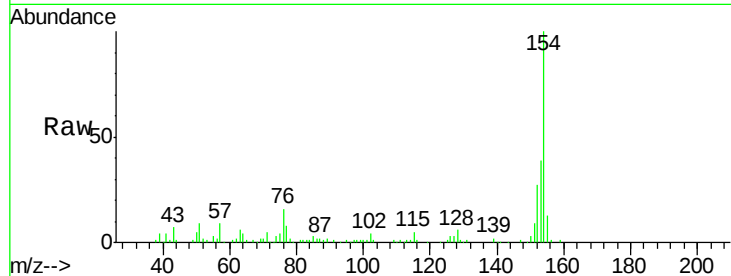




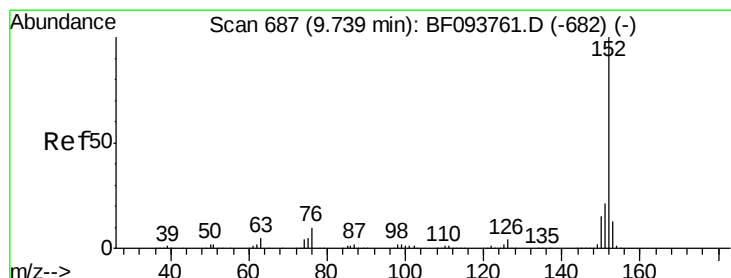
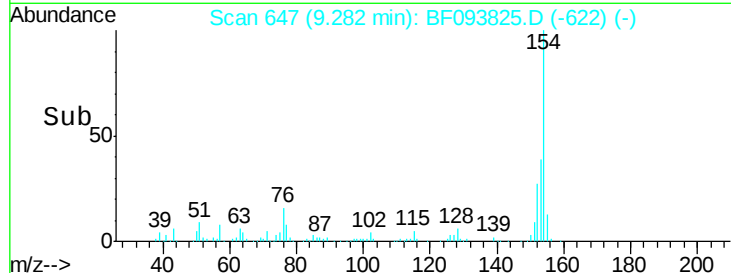
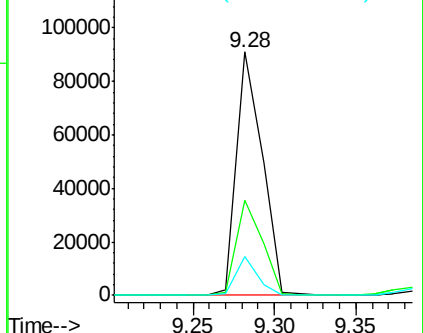
#45
 1,1'-Biphenyl
 Concen: 3.24 ng
 RT: 9.28 min Scan# 647
 Delta R.T. -0.01 min
 Lab File: BF093825.D
 Acq: 22 Mar 2017 9:08

Instrument :
 BNA_F
 ClientSampleId :
 HP-CT-01DL

Tgt Ion:	154	Resp:	99216
Ion	Ratio	Lower	Upper
154	100		
153	39.1	21.2	61.2
76	16.2	0.0	29.9

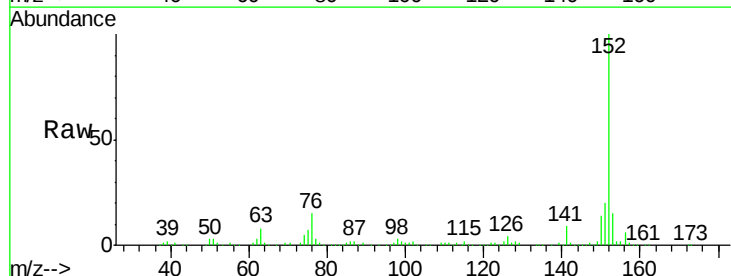


Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): BF0

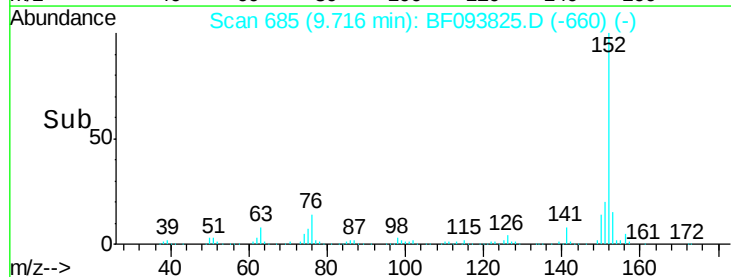
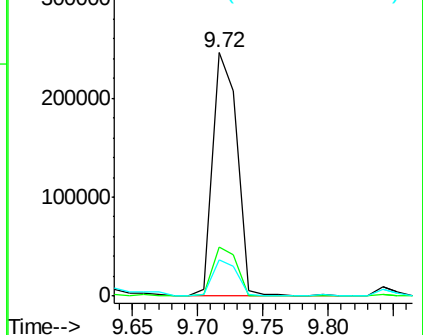


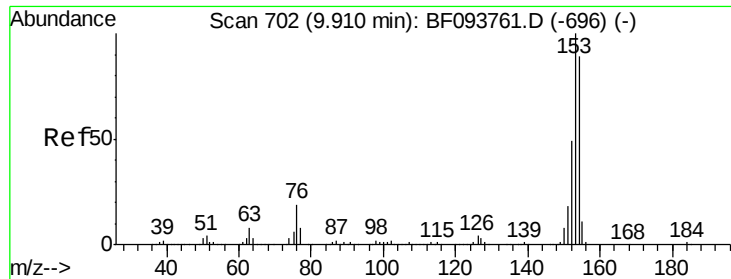
#48
 Acenaphthylene
 Concen: 8.42 ng
 RT: 9.72 min Scan# 685
 Delta R.T. -0.01 min
 Lab File: BF093825.D
 Acq: 22 Mar 2017 9:08

Tgt Ion:	152	Resp:	321462
Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.8	25.2
153	14.9	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: 4.71 ng

RT: 9.90 min Scan# 701

Delta R.T. -0.00 min

Lab File: BF093825.D

Acq: 22 Mar 2017 9:08

Instrument :

BNA_F

ClientSampleId :

HP-CT-01DL

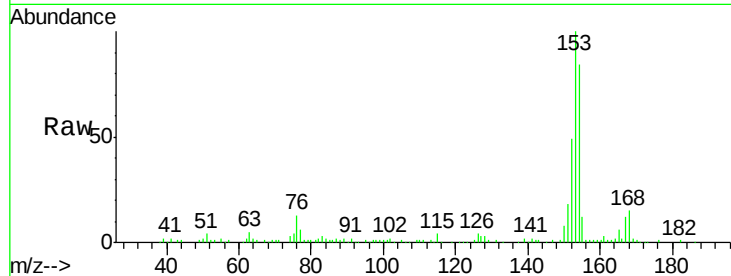
Tgt Ion:154 Resp: 107476

Ion Ratio Lower Upper

154 100

153 118.5 90.5 135.7

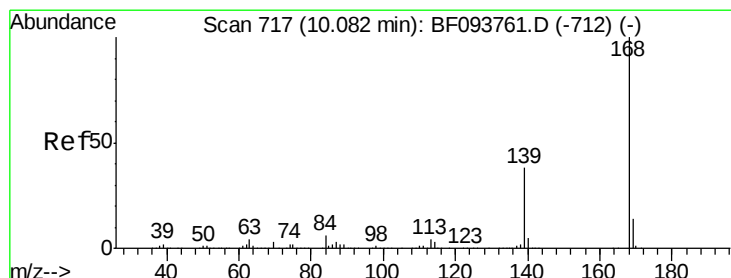
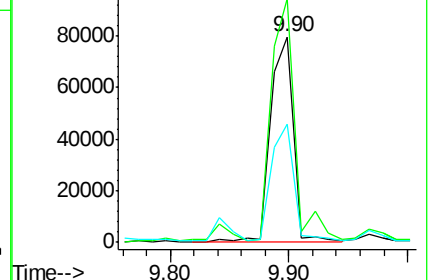
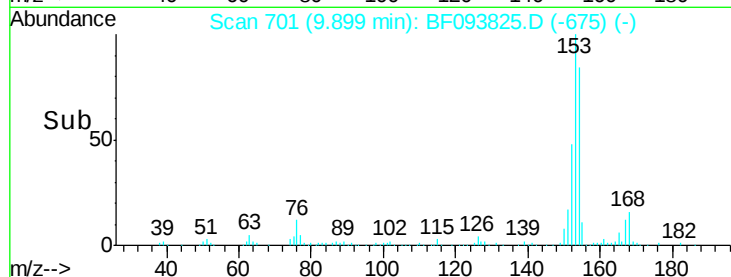
152 57.5 43.6 65.4



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: 3.58 ng

RT: 10.07 min Scan# 716

Delta R.T. -0.00 min

Lab File: BF093825.D

Acq: 22 Mar 2017 9:08

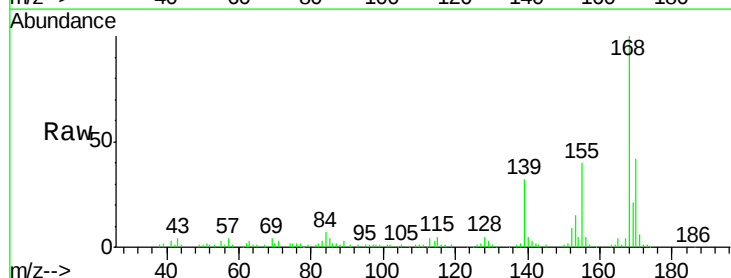
Tgt Ion:168 Resp: 109874

Ion Ratio Lower Upper

168 100

139 32.2 30.6 45.8

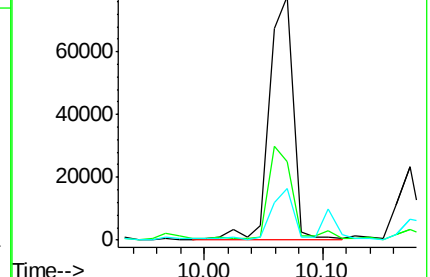
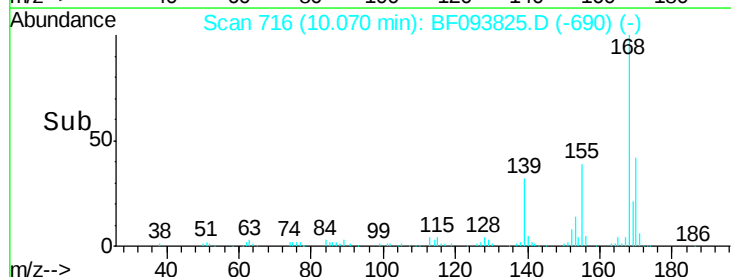
169 21.1 10.8 16.2#

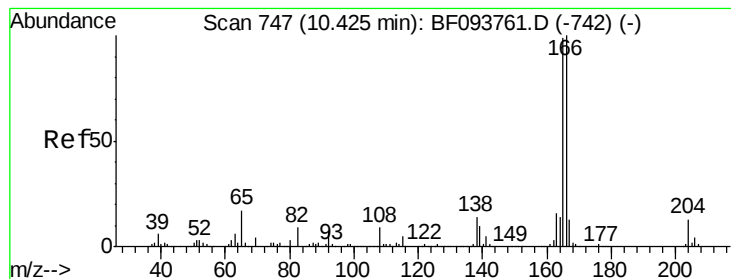


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 14.17 ng

RT: 10.40 min Scan# 745

Delta R.T. -0.01 min

Lab File: BF093825.D

Acq: 22 Mar 2017 9:08

Instrument :

BNA_F

ClientSampleId :

HP-CT-01DL

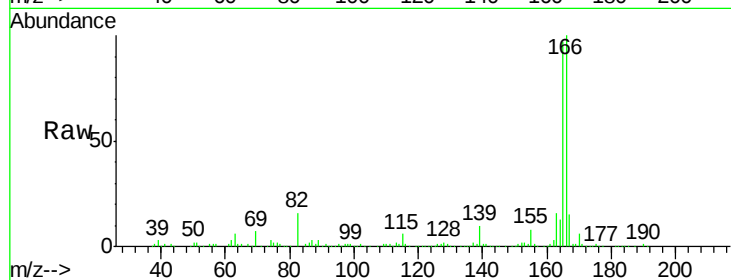
Tgt Ion:166 Resp: 333077

Ion Ratio Lower Upper

166 100

165 97.4 78.8 118.2

167 14.8 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

300000

250000

200000

150000

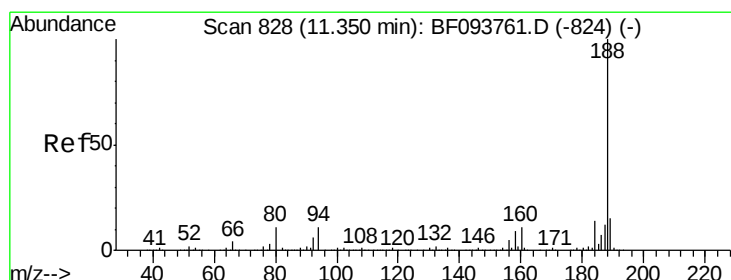
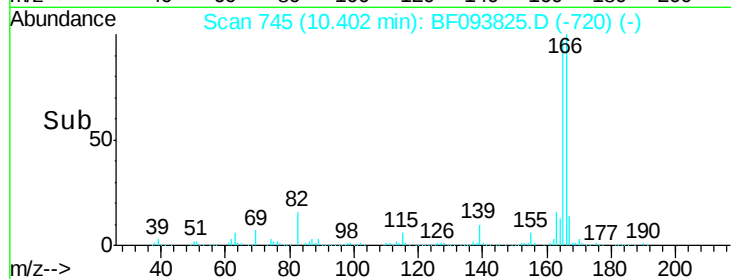
100000

50000

0

10.35 10.40 10.45

Time-->



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.34 min Scan# 827

Delta R.T. -0.00 min

Lab File: BF093825.D

Acq: 22 Mar 2017 9:08

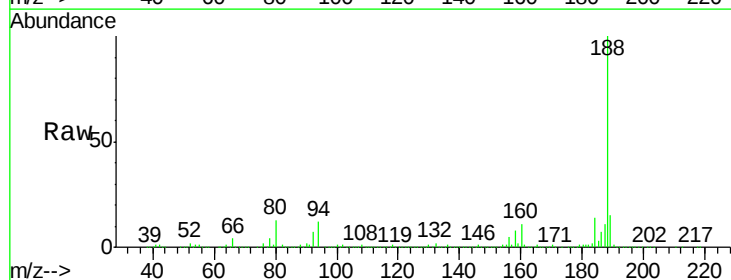
Tgt Ion:188 Resp: 570063

Ion Ratio Lower Upper

188 100

94 11.9 9.4 14.2

80 12.7 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

800000

600000

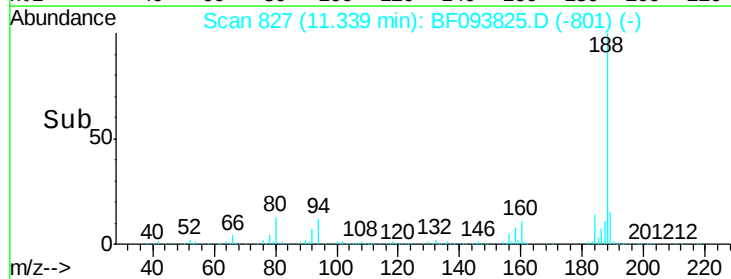
400000

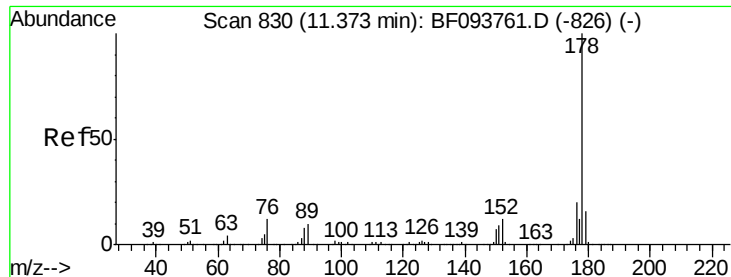
200000

0

11.25 11.30 11.35 11.40

Time-->





#70

Phenanthrene

Concen: 38.96 ng

RT: 11.36 min Scan# 829

Delta R.T. -0.00 min

Lab File: BF093825.D

Acq: 22 Mar 2017 9:08

Instrument :

BNA_F

ClientSampleId :

HP-CT-01DL

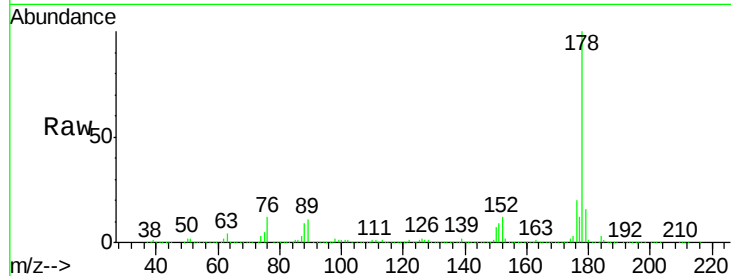
Tgt Ion:178 Resp: 1182685

Ion Ratio Lower Upper

178 100

176 19.9 16.2 24.4

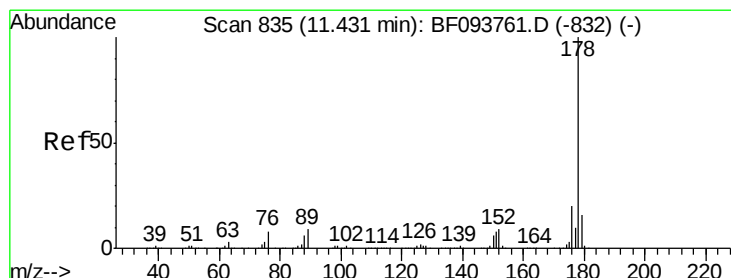
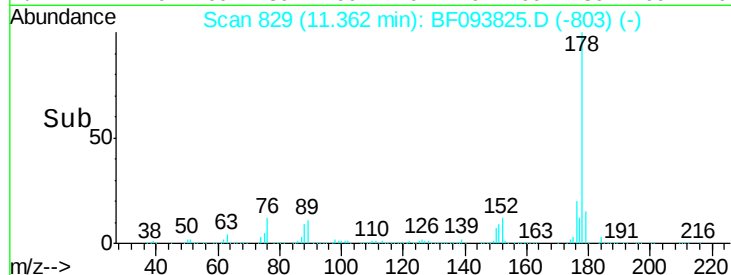
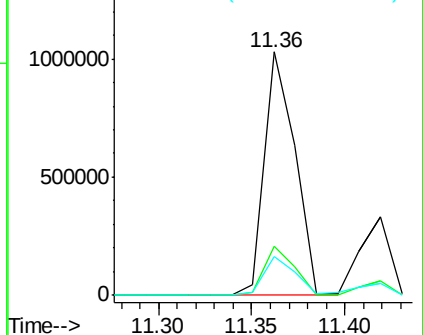
179 15.9 12.6 19.0



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: 11.06 ng

RT: 11.42 min Scan# 834

Delta R.T. -0.00 min

Lab File: BF093825.D

Acq: 22 Mar 2017 9:08

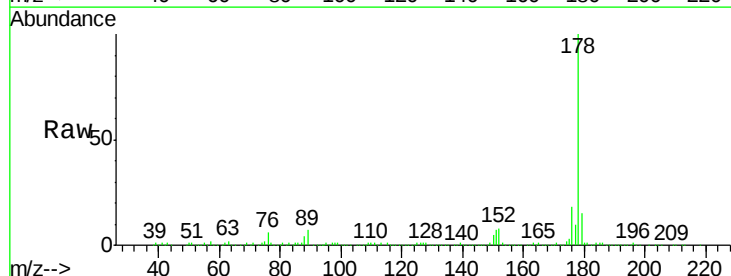
Tgt Ion:178 Resp: 345680

Ion Ratio Lower Upper

178 100

176 18.2 15.8 23.8

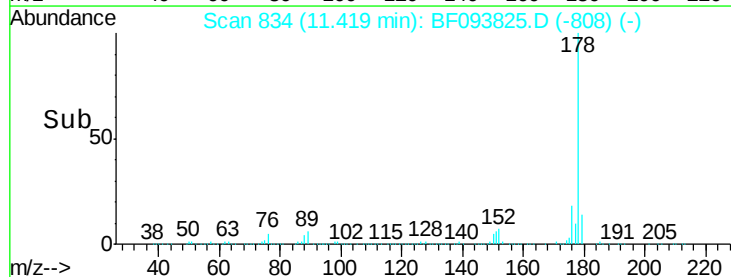
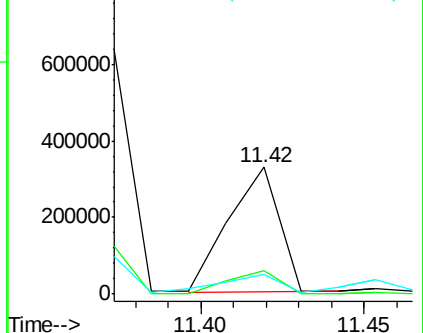
179 15.2 12.7 19.1

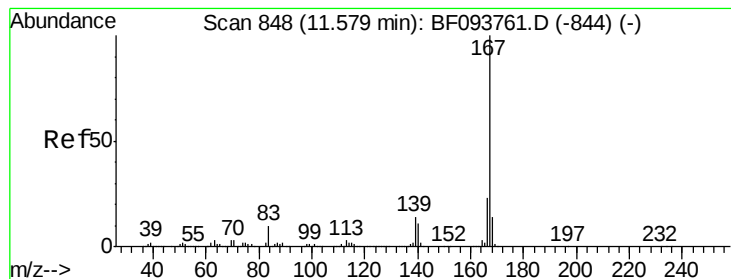


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 2.00 ng

RT: 11.57 min Scan# 847

Delta R.T. -0.00 min

Lab File: BF093825.D

Acq: 22 Mar 2017 9:08

Instrument :

BNA_F

ClientSampleId :

HP-CT-01DL

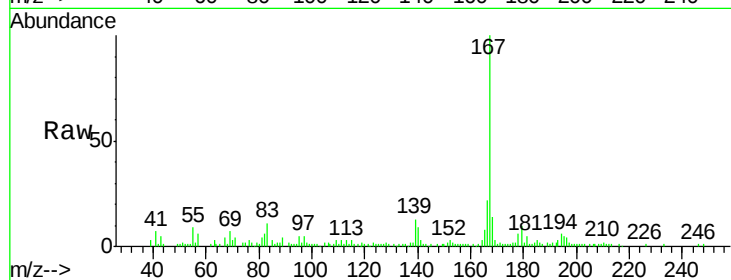
Tgt Ion:167 Resp: 61957

Ion Ratio Lower Upper

167 100

166 22.5 18.1 27.1

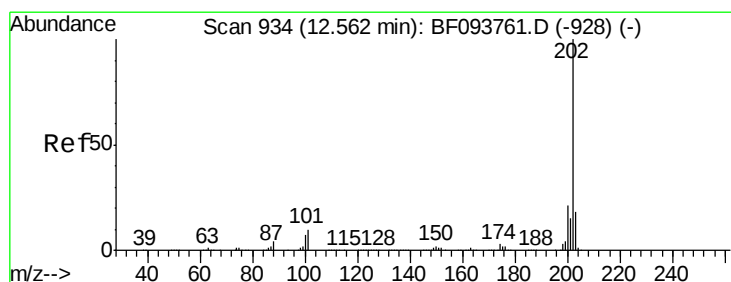
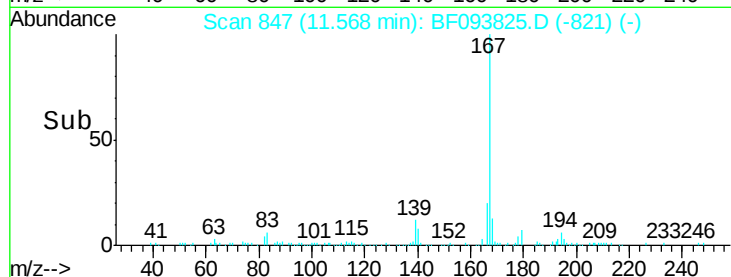
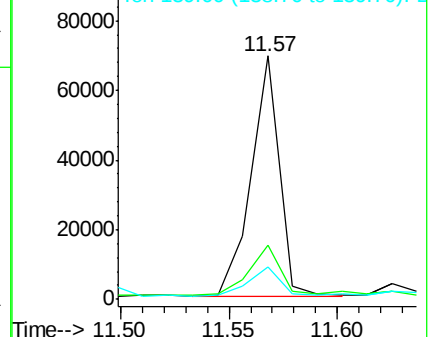
139 13.2 11.7 17.5



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: 18.40 ng

RT: 12.55 min Scan# 933

Delta R.T. -0.00 min

Lab File: BF093825.D

Acq: 22 Mar 2017 9:08

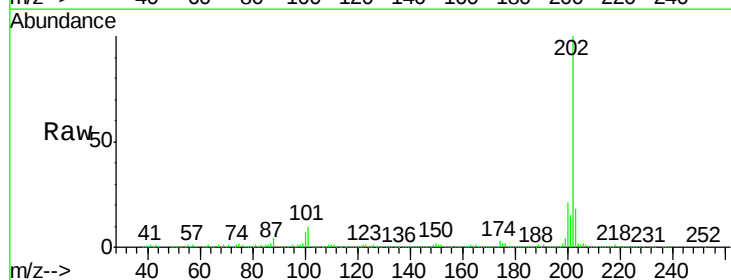
Tgt Ion:202 Resp: 574118

Ion Ratio Lower Upper

202 100

101 9.9 0.0 33.2

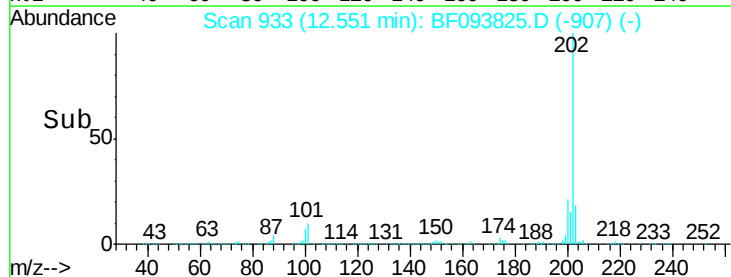
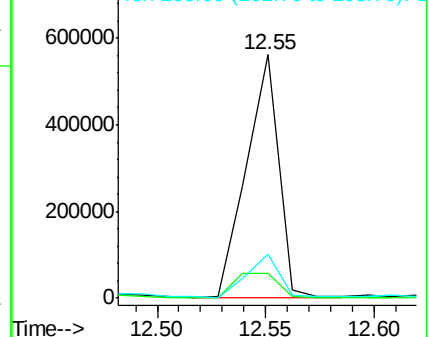
203 17.8 0.0 38.1

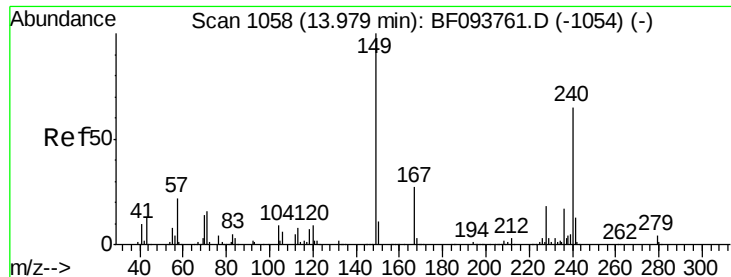


Abundance Ion 202.00 (201.70 to 202.70): E

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: BF093825.D

Acq: 22 Mar 2017 9:08

Instrument :

BNA_F

ClientSampled :

HP-CT-01DL

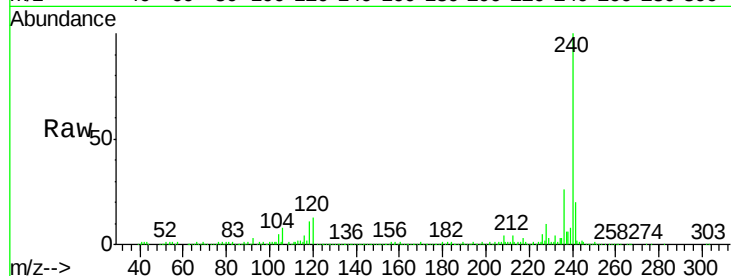
Tgt Ion:240 Resp: 377560

Ion Ratio Lower Upper

240 100

120 13.2 5.8 8.8#

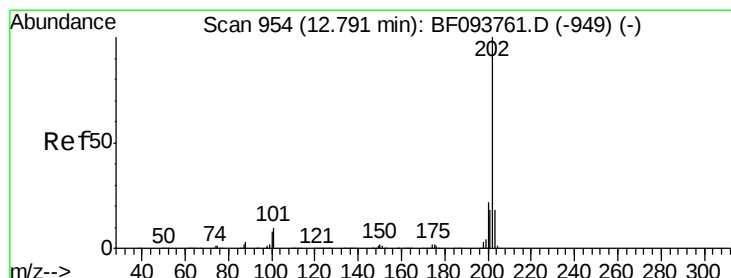
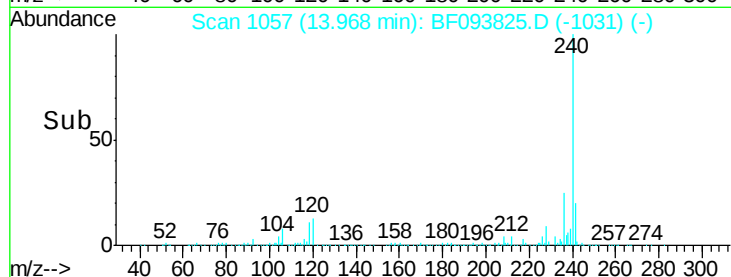
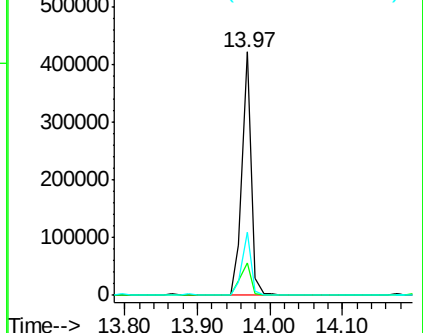
236 25.9 20.5 30.7



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: 23.84 ng

RT: 12.78 min Scan# 953

Delta R.T. -0.00 min

Lab File: BF093825.D

Acq: 22 Mar 2017 9:08

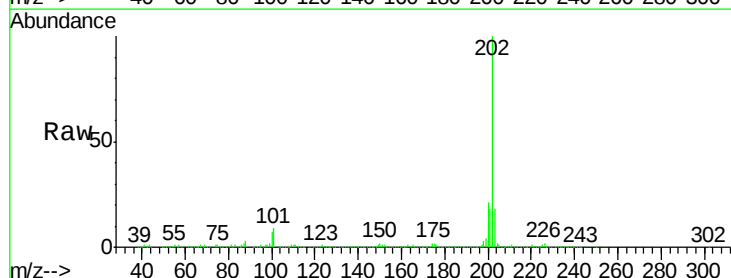
Tgt Ion:202 Resp: 748959

Ion Ratio Lower Upper

202 100

200 21.3 17.6 26.4

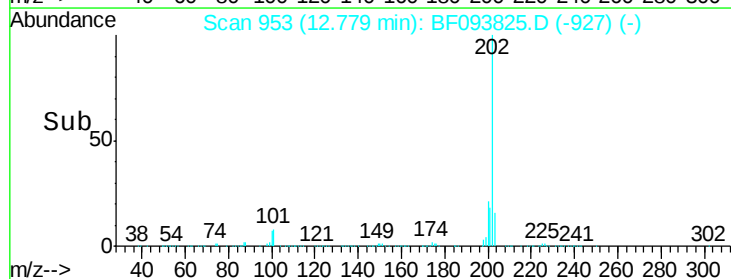
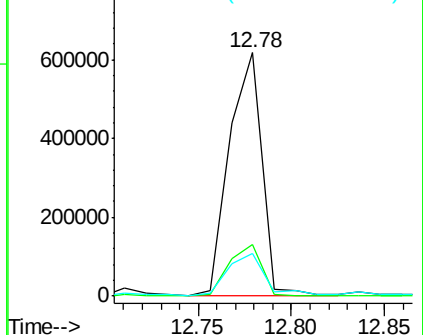
203 17.6 14.4 21.6

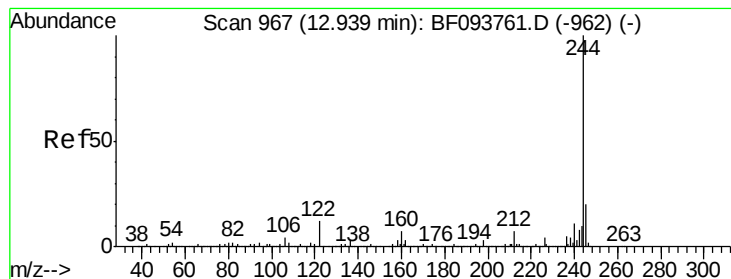


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 0.76 ng

RT: 12.92 min Scan# 965

Delta R.T. -0.01 min

Lab File: BF093825.D

Acq: 22 Mar 2017 9:08

Instrument :

BNA_F

ClientSampleId :

HP-CT-01DL

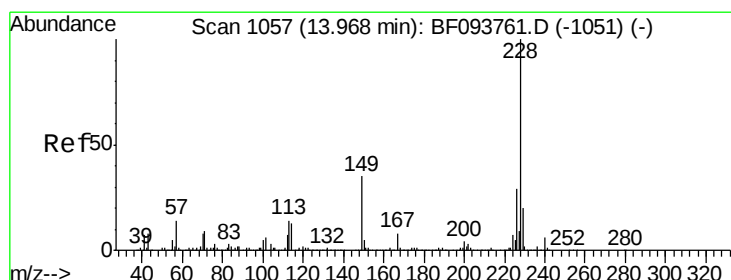
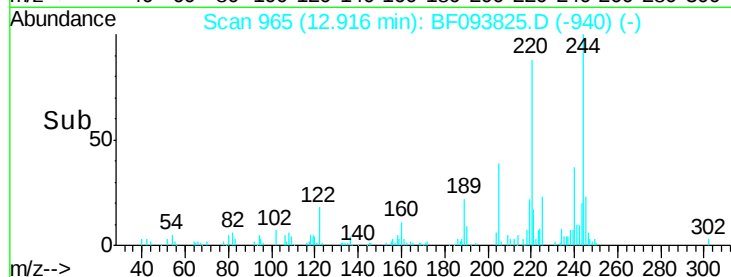
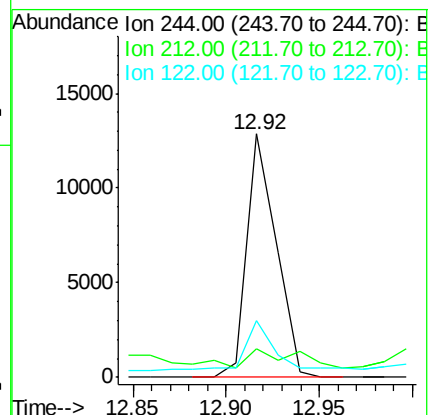
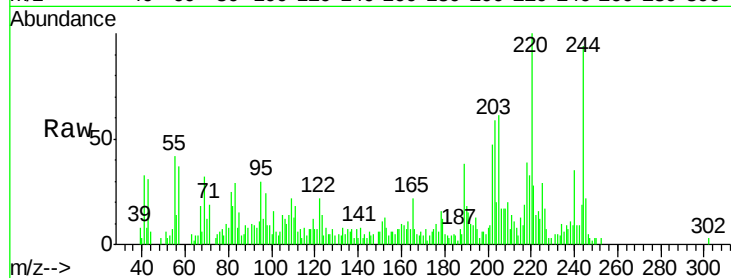
Tgt Ion:244 Resp: 14083

Ion Ratio Lower Upper

244 100

212 11.8 6.0 9.0#

122 23.4 10.3 15.5#



#80

Benzo(a)anthracene

Concen: 8.86 ng m

RT: 13.96 min Scan# 1056

Delta R.T. -0.00 min

Lab File: BF093825.D

Acq: 22 Mar 2017 9:08

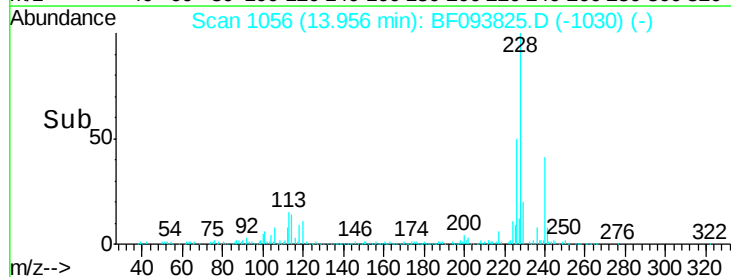
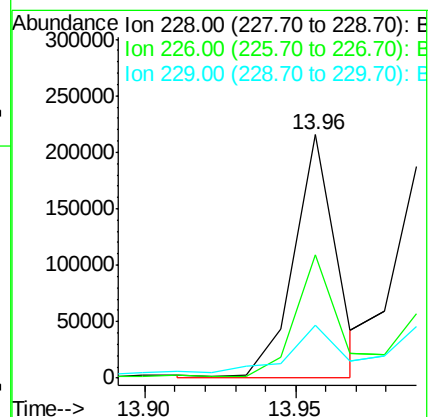
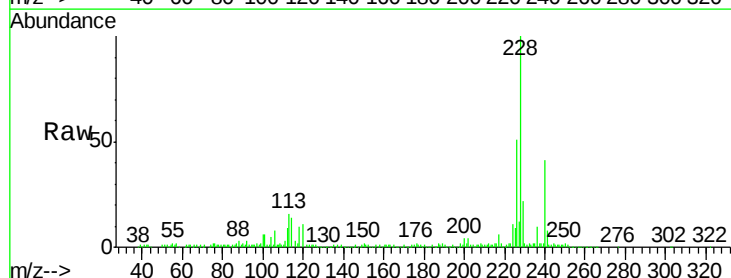
Tgt Ion:228 Resp: 209468

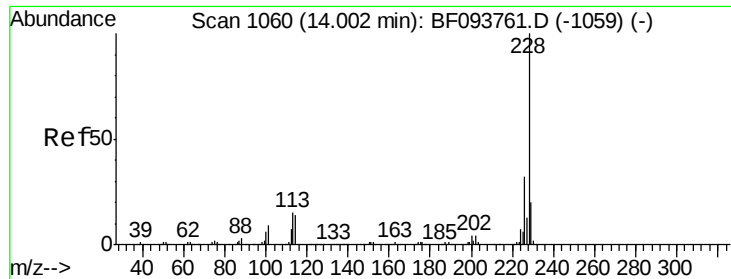
Ion Ratio Lower Upper

228 100

226 50.5 22.6 33.8#

229 21.5 16.3 24.5





#82

Chrysene

Concen: 8.48 ng m

RT: 13.99 min Scan# 1059

Delta R.T. -0.01 min

Lab File: BF093825.D

Acq: 22 Mar 2017 9:08

Instrument :

BNA_F

ClientSampleId :

HP-CT-01DL

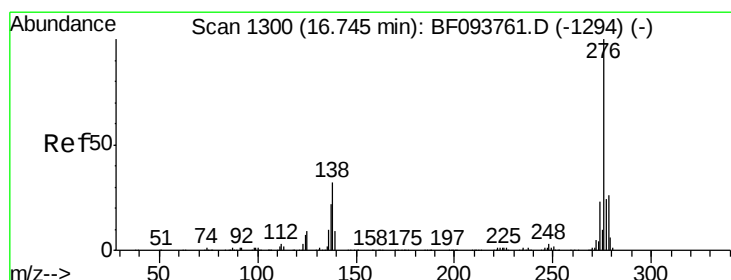
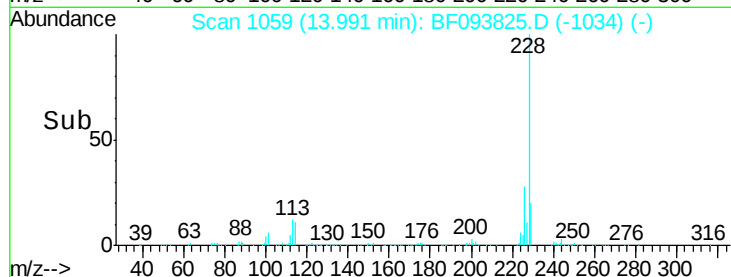
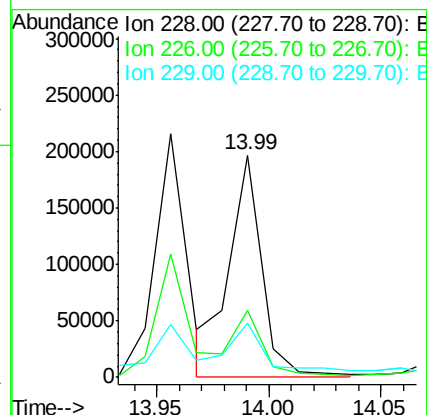
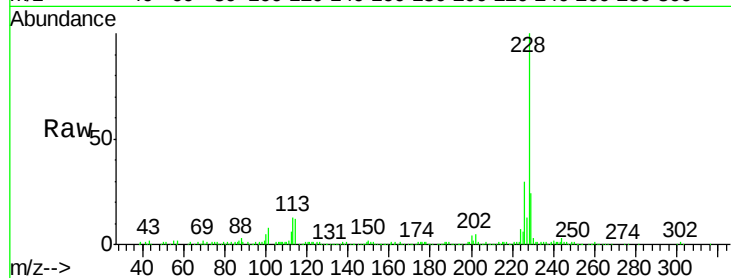
Tgt Ion:228 Resp: 200489

Ion Ratio Lower Upper

228 100

226 30.2 24.9 37.3

229 24.2 15.8 23.6#



#85

Indeno(1,2,3-cd)pyrene

Concen: 3.11 ng

RT: 16.72 min Scan# 1298

Delta R.T. -0.01 min

Lab File: BF093825.D

Acq: 22 Mar 2017 9:08

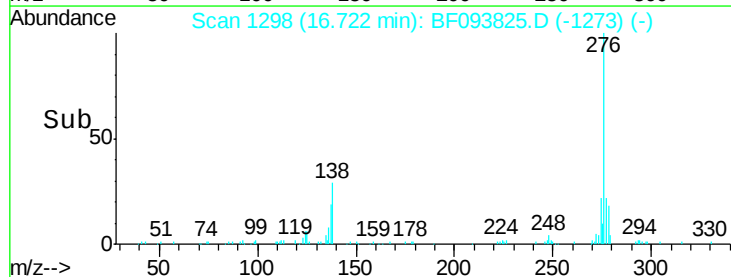
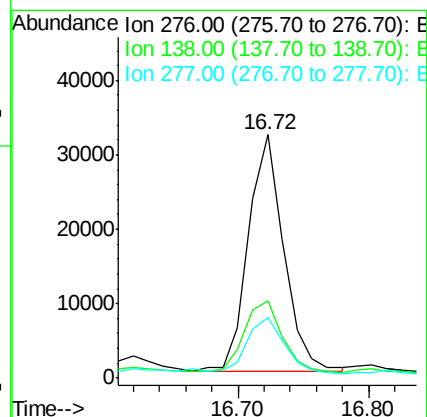
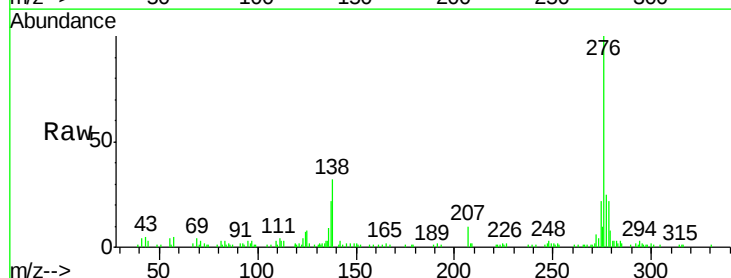
Tgt Ion:276 Resp: 60255

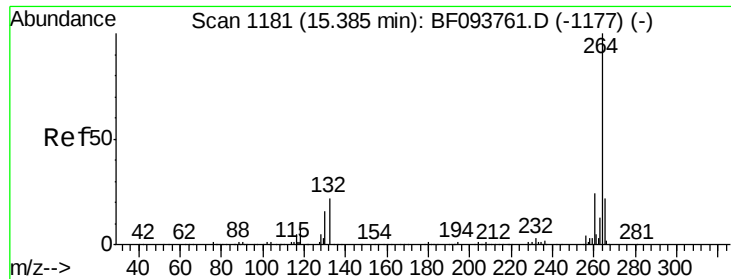
Ion Ratio Lower Upper

276 100

138 33.1 27.8 41.6

277 24.9 20.2 30.4



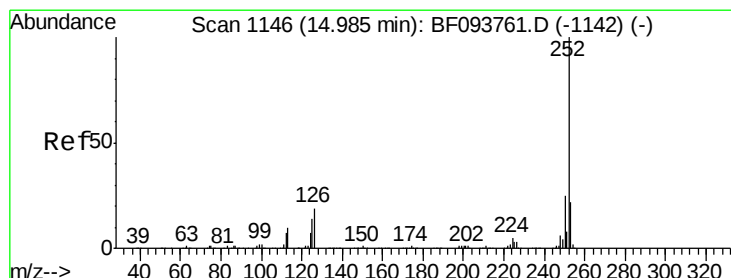
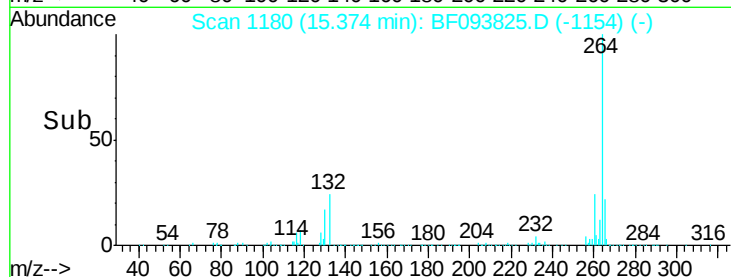
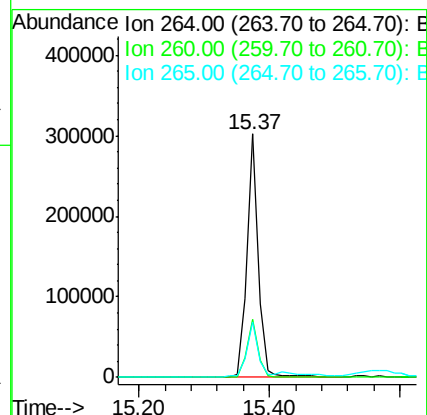
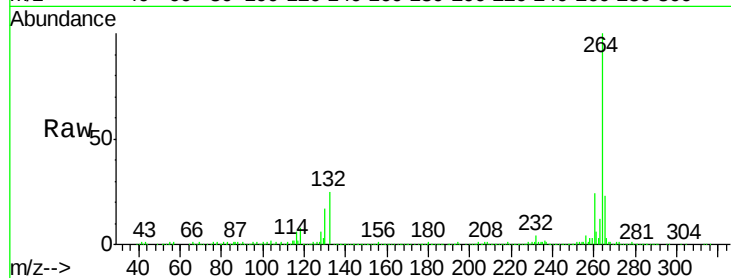


#86
Perylene-d12
Concen: 20.00 ng
RT: 15.37 min Scan# 1180
Delta R.T. -0.00 min
Lab File: BF093825.D
Acq: 22 Mar 2017 9:08

Instrument :
BNA_F
ClientSampleId :
HP-CT-01DL

Tgt Ion: 264 Resp: 358981

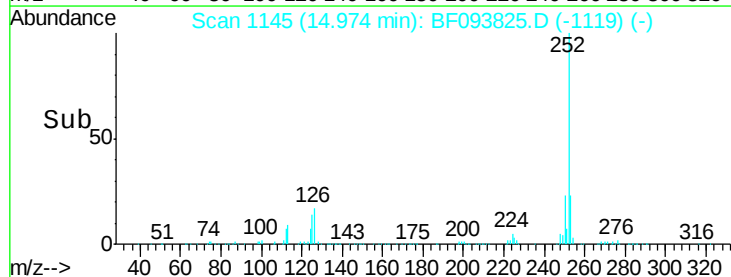
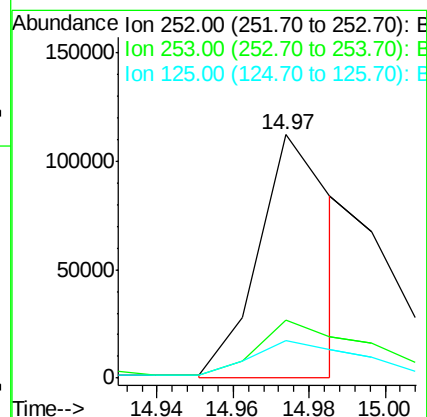
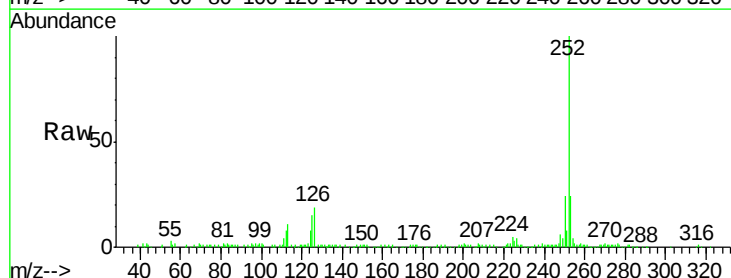
Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.5	29.3
265	22.6	17.2	25.8

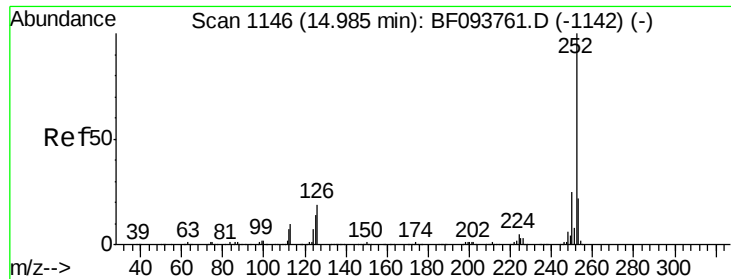


#87
Benzo(b)fluoranthene
Concen: 6.36 ng m
RT: 14.97 min Scan# 1145
Delta R.T. -0.00 min
Lab File: BF093825.D
Acq: 22 Mar 2017 9:08

Tgt Ion: 252 Resp: 154032

Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.1	27.1
125	15.3	9.8	14.8#





#88

Benzo(k)fluoranthene

Concen: 4.02 ng m

RT: 14.99 min Scan# 1146

Delta R.T. -0.02 min

Lab File: BF093825.D

Acq: 22 Mar 2017 9:08

Instrument :

BNA_F

ClientSampled :

HP-CT-01DL

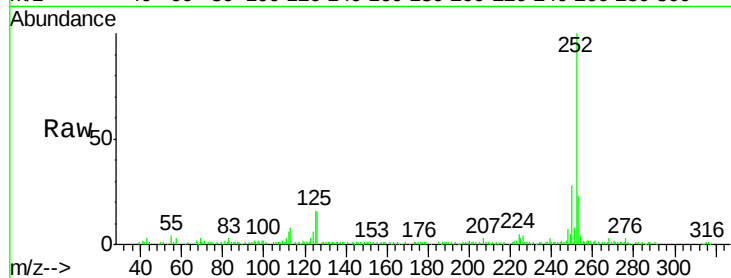
Tgt Ion:252 Resp: 71877

Ion Ratio Lower Upper

252 100

253 22.9 18.4 27.6

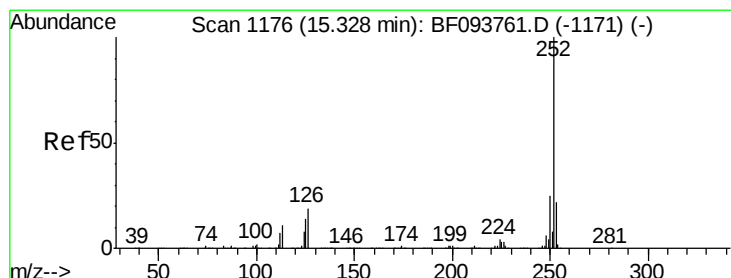
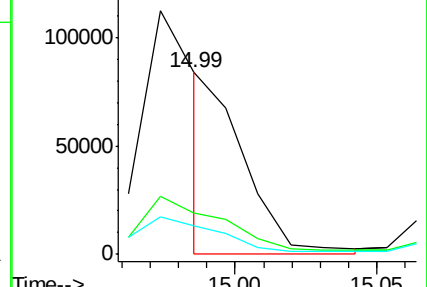
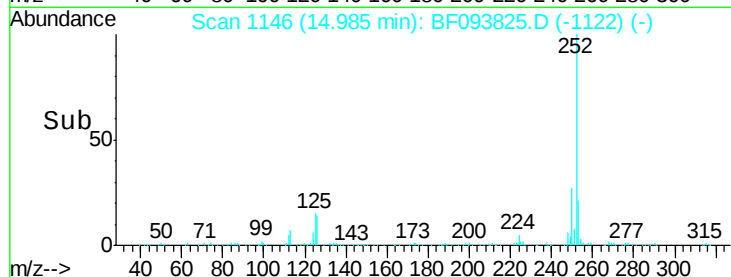
125 15.9 13.1 19.7



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89

Benzo(a)pyrene

Concen: 8.68 ng

RT: 15.32 min Scan# 1175

Delta R.T. -0.00 min

Lab File: BF093825.D

Acq: 22 Mar 2017 9:08

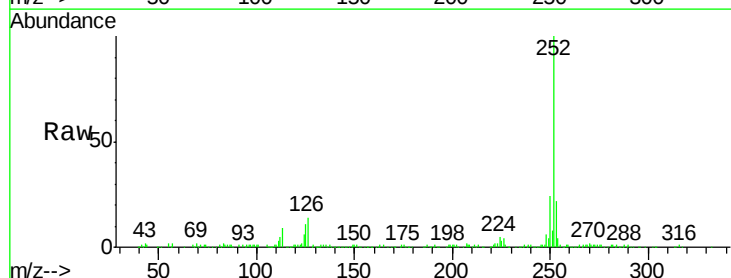
Tgt Ion:252 Resp: 170397

Ion Ratio Lower Upper

252 100

253 22.4 17.5 26.3

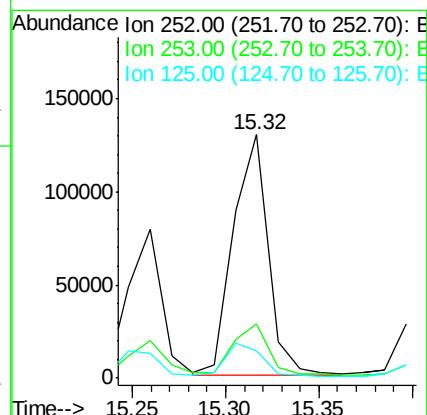
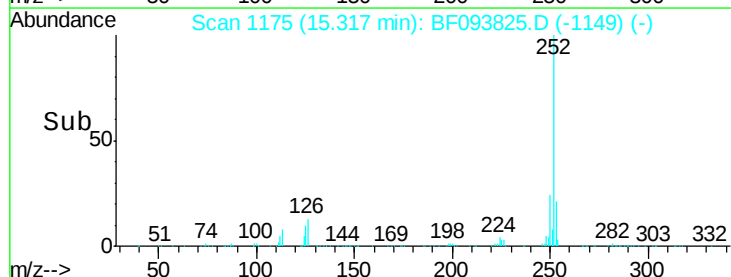
125 11.1 11.0 16.4

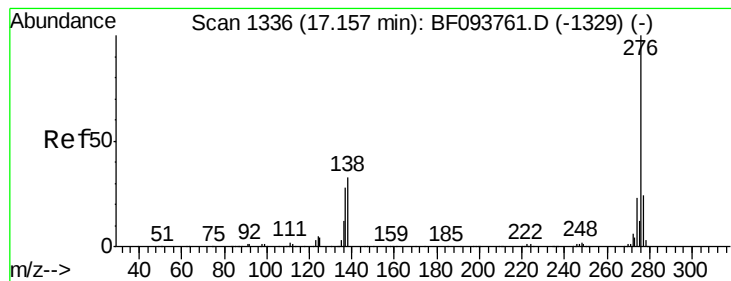


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#91

Benzo(g,h,i)perylene

Concen: 4.42 ng

RT: 17.12 min Scan# 1333

Delta R.T. -0.02 min

Lab File: BF093825.D

Acq: 22 Mar 2017 9:08

Instrument :

BNA_F

ClientSampleId :

HP-CT-01DL

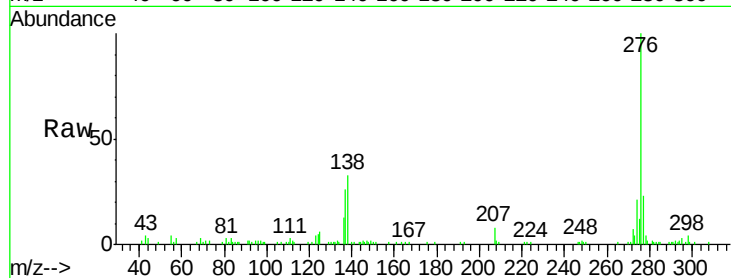
Tgt Ion: 276 Resp: 71443

Ion Ratio Lower Upper

276 100

277 22.9 18.6 28.0

138 32.7 25.4 38.0



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

