

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032917\
 Data File : BF094052.D
 Acq On : 30 Mar 2017 8:35
 Operator : SJ/MA
 Sample : I2431-05
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Mar 30 08:56:49 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 27 16:10:49 2017
 Response via : Initial Calibration

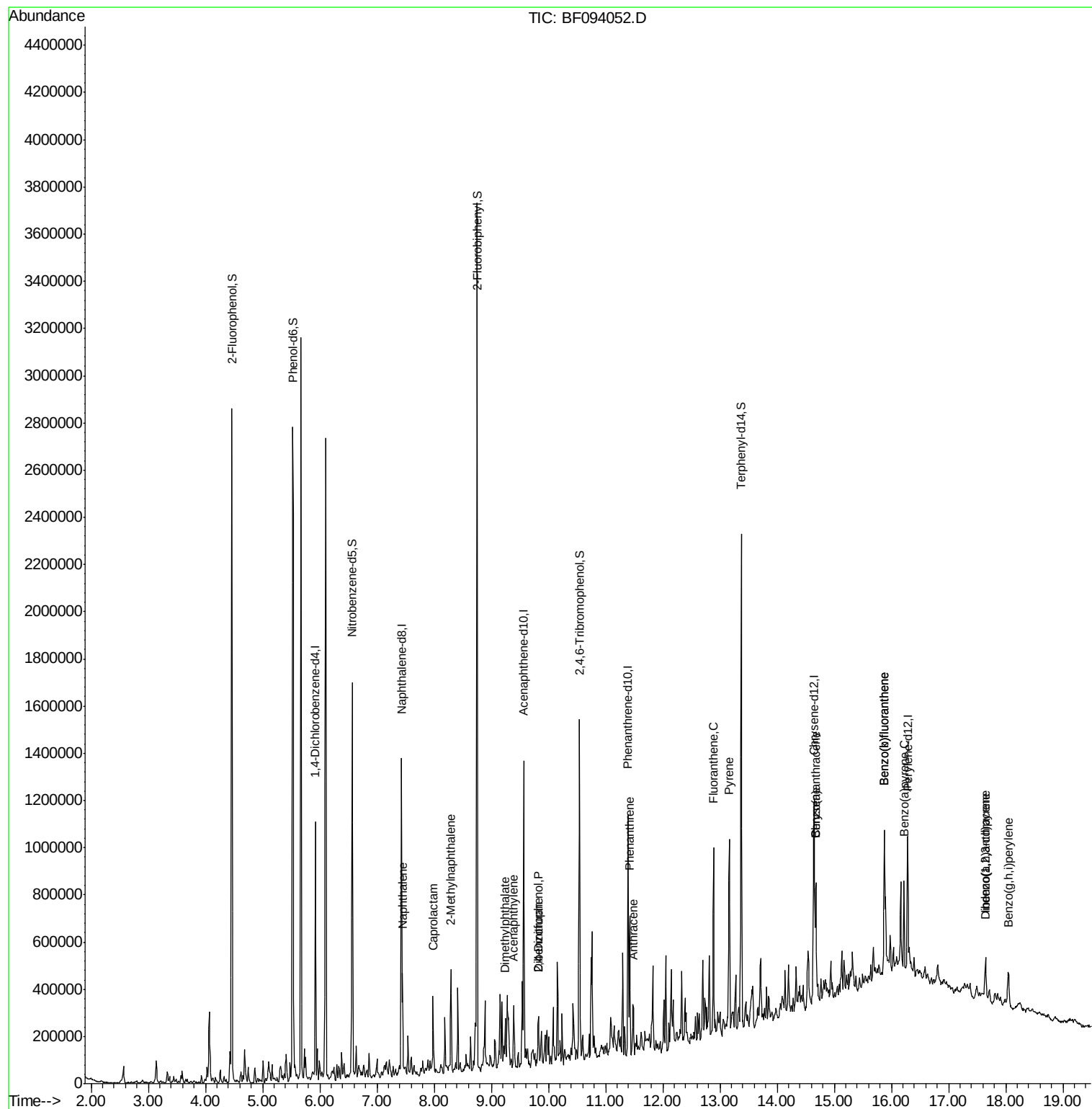
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.92	152	161360	20.00	ng	-0.03
21) Naphthalene-d8	7.43	136	629100	20.00	ng	-0.03
38) Acenaphthene-d10	9.57	164	265982	20.00	ng	-0.03
63) Phenanthrene-d10	11.39	188	405485	20.00	ng	-0.03
75) Chrysene-d12	14.65	240	296638	20.00	ng	-0.03
86) Perylene-d12	16.29	264	244359	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	4.46	112	872677	91.35	ng	-0.01
7) Phenol-d6	5.53	99	1105070	93.50	ng	-0.02
23) Nitrobenzene-d5	6.57	82	610450	55.38	ng	-0.04
41) 2,4,6-Tribromophenol	10.54	330	166609	79.27	ng	-0.04
44) 2-Fluorobiphenyl	8.75	172	1292372	74.11	ng	-0.03
78) Terphenyl-d14	13.37	244	770589	58.23	ng	-0.03
Target Compounds						Qvalue
31) Naphthalene	7.45	128	149663	4.95	ng	98
35) Caprolactam	7.98	113	8206	3.08	ng	# 68
37) 2-Methylnaphthalene	8.29	142	121968	6.05	ng	98
48) Acenaphthylene	9.39	152	97955	3.51	ng	97
49) Dimethylphthalate	9.25	163	77758	4.11	ng	100
53) 2,4-Dinitrophenol	9.82	184	134	4.72	ng	# 1
54) Dibenzofuran	9.82	168	51789	2.34	ng	# 95
70) Phenanthrene	11.42	178	222941	9.88	ng	99
71) Anthracene	11.49	178	88543	3.81	ng	98
74) Fluoranthene	12.89	202	351687	15.23	ng	99
77) Pyrene	13.16	202	353989	16.44	ng	98
80) Benzo(a)anthracene	14.68	228	245342	14.18	ng	95
82) Chrysene	14.68	228	245342	15.28	ng	97
85) Indeno(1,2,3-cd)pyrene	17.64	276	107755	7.75	ng	94
87) Benzo(b)fluoranthene	15.87	252	404404	27.00	ng	# 97
88) Benzo(k)fluoranthene	15.87	252	404404	27.59	ng	99
89) Benzo(a)pyrene	16.22	252	159874	11.59	ng	95
90) Dibenzo(a,h)anthracene	17.66	278	29824	2.55	ng	# 81
91) Benzo(a,h,i)perylene	18.04	276	101136	8.59	ng	98

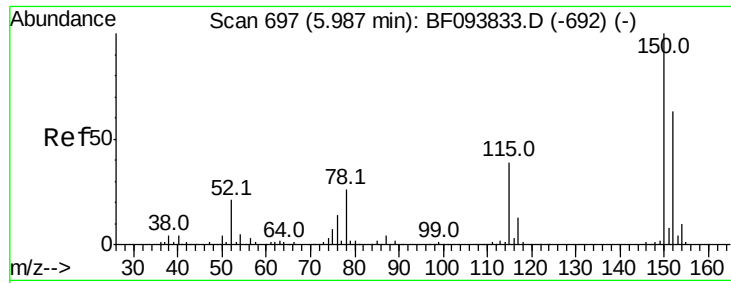
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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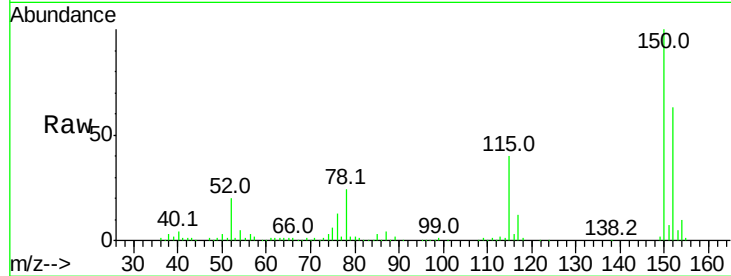


#1

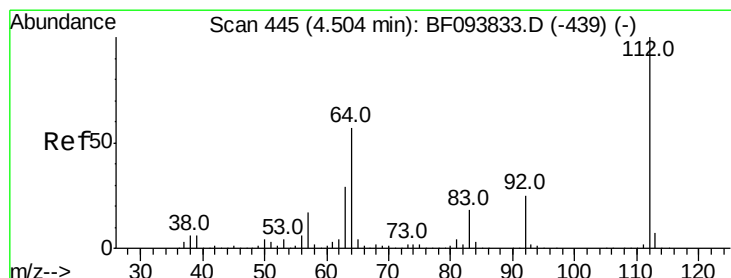
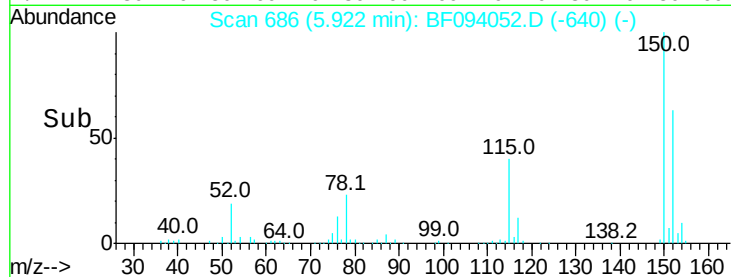
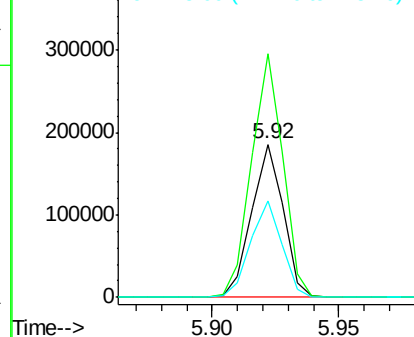
1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 5.92 min Scan# 686
 Delta R.T. -0.03 min
 Lab File: BF094052.D
 Acq: 30 Mar 2017 8:35

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:152 Resp: 161360
 Ion Ratio Lower Upper
 152 100
 150 159.2 126.2 189.2
 115 63.0 52.2 78.2



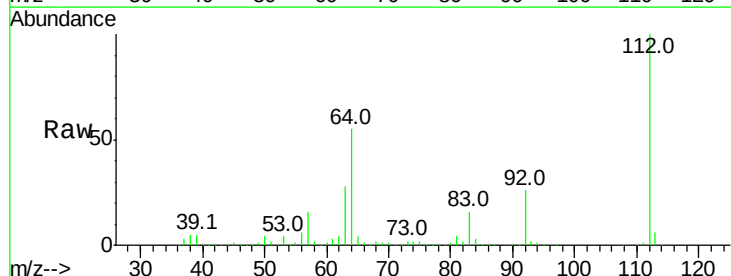
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



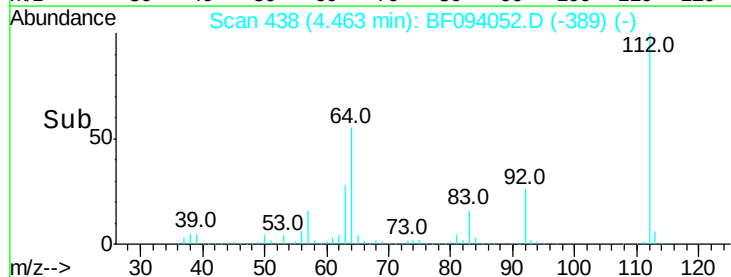
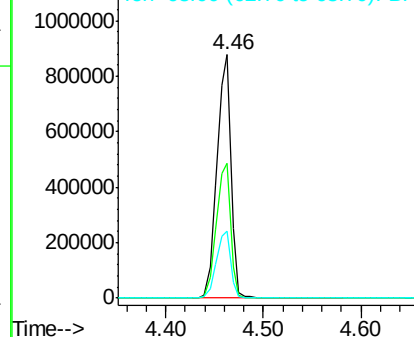
#5

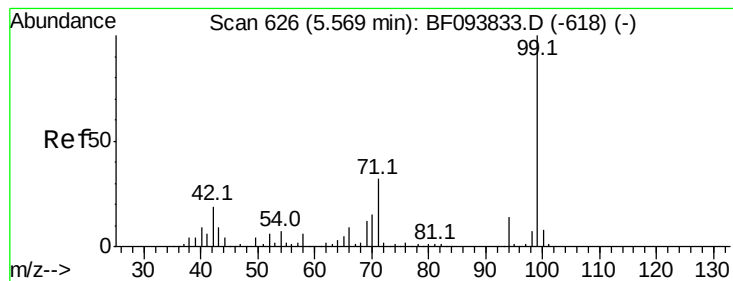
2-Fluorophenol
 Concen: 91.35 ng
 RT: 4.46 min Scan# 438
 Delta R.T. -0.01 min
 Lab File: BF094052.D
 Acq: 30 Mar 2017 8:35

Tgt Ion:112 Resp: 872677
 Ion Ratio Lower Upper
 112 100
 64 55.4 46.0 69.0
 63 27.6 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: 93.50 ng

RT: 5.53 min Scan# 619

Delta R.T. -0.02 min

Lab File: BF094052.D

Acq: 30 Mar 2017 8:35

Instrument :

BNA_F

ClientSampleId :

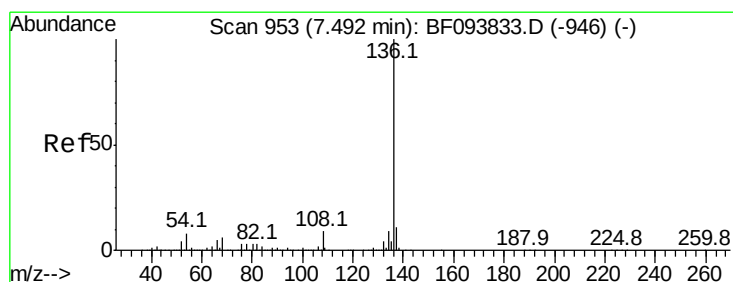
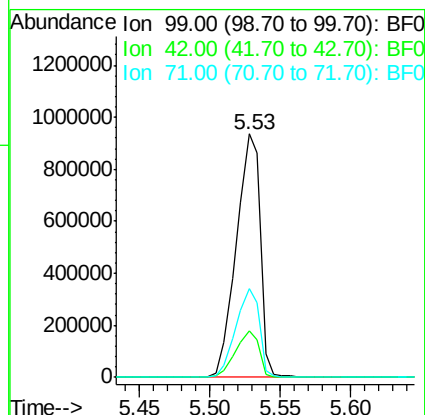
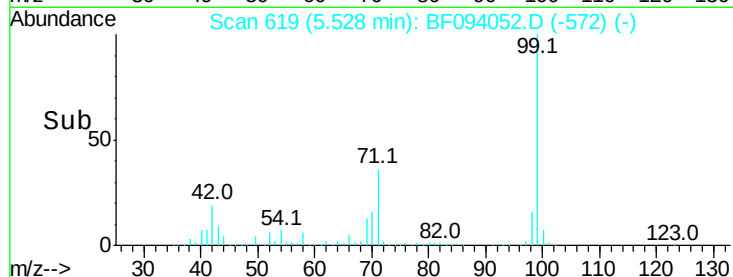
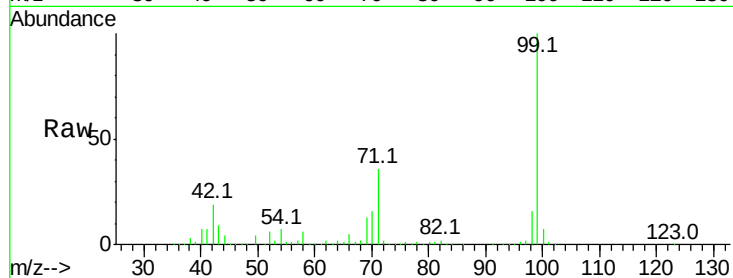
Tot Ion: 99 Resp: 1105070

Ion Ratio Lower Upper

99 100

42 19.1 13.5 20.3

71 36.4 24.5 36.7



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.43 min Scan# 942

Delta R.T. -0.03 min

Lab File: BF094052.D

Acq: 30 Mar 2017 8:35

Tgt Ion: 136 Resp: 629100

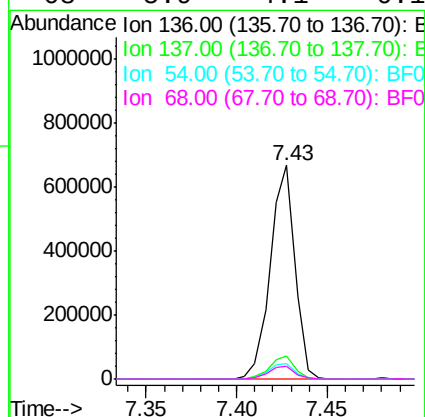
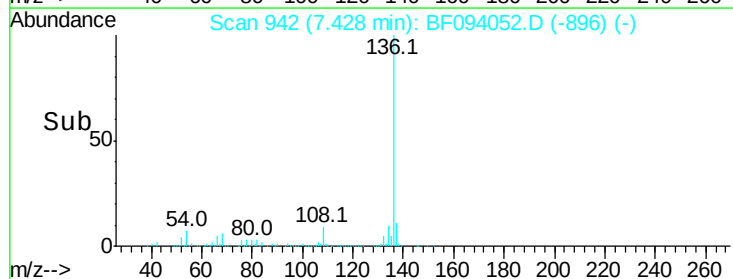
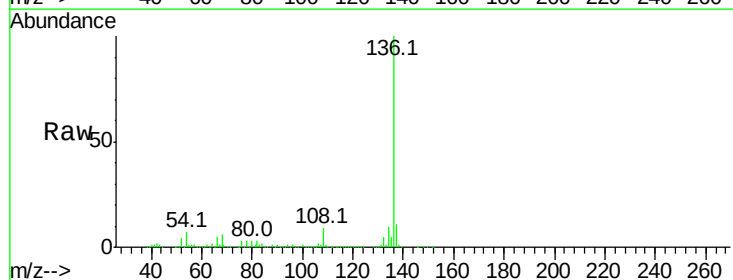
Ion Ratio Lower Upper

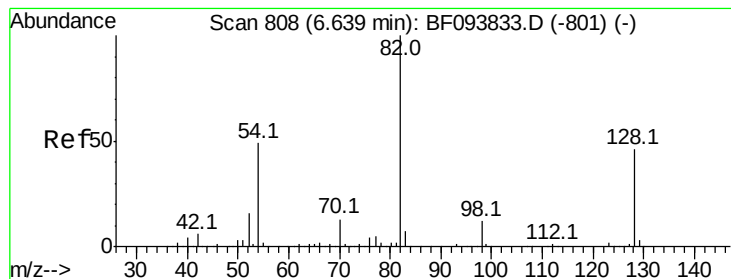
136 100

137 10.8 8.5 12.7

54 7.3 4.9 7.3

68 5.9 4.1 6.1





#23

Nitrobenzene-d5

Concen: 55.38 ng

RT: 6.57 min Scan# 796

Delta R.T. -0.04 min

Lab File: BF094052.D

Acq: 30 Mar 2017 8:35

Instrument :

BNA_F

ClientSampleId :

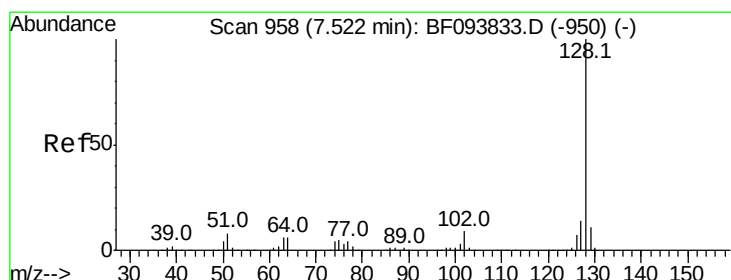
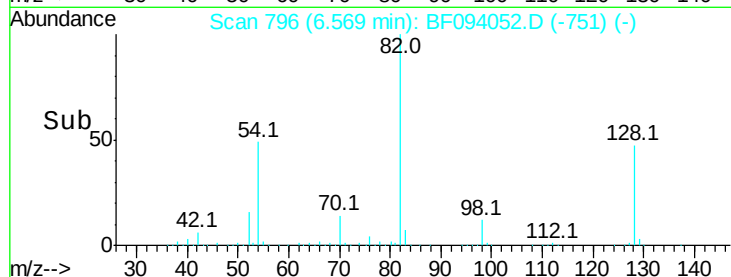
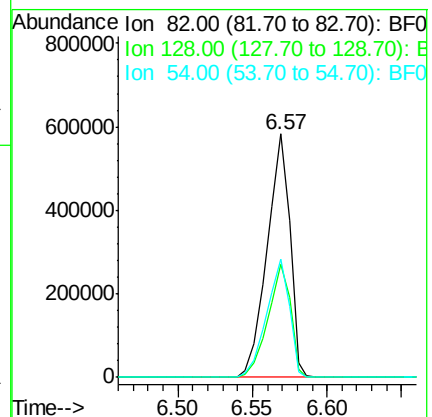
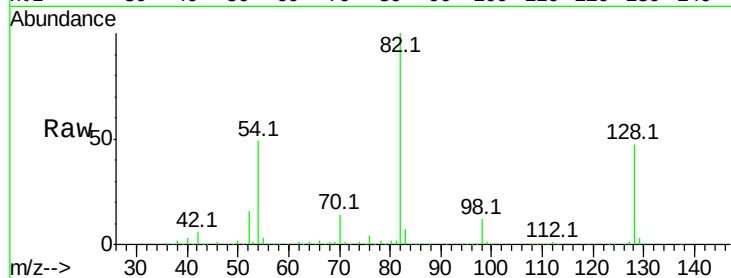
Tot Ion: 82 Resp: 610450

Ion Ratio Lower Upper

82 100

128 46.7 34.0 51.0

54 48.7 42.2 63.2



#31

Naphthalene

Concen: 4.95 ng

RT: 7.45 min Scan# 946

Delta R.T. -0.04 min

Lab File: BF094052.D

Acq: 30 Mar 2017 8:35

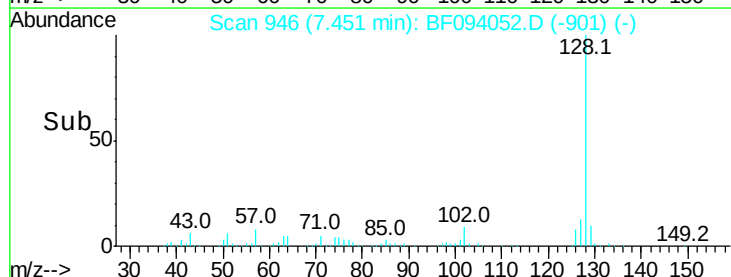
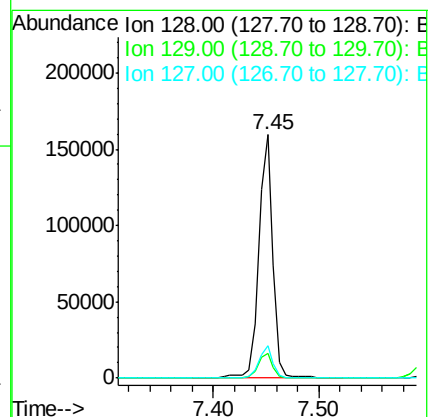
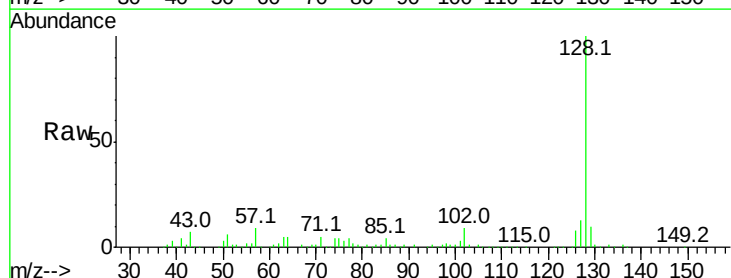
Tgt Ion:128 Resp: 149663

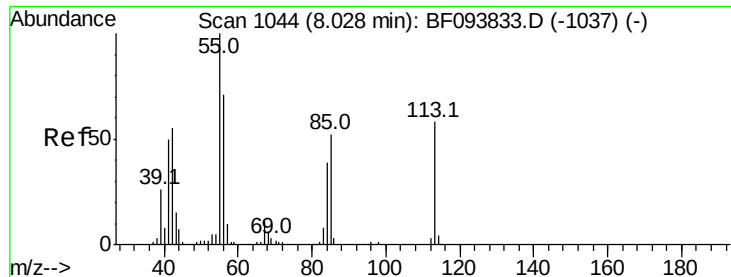
Ion Ratio Lower Upper

128 100

129 10.2 9.0 13.6

127 13.2 10.8 16.2

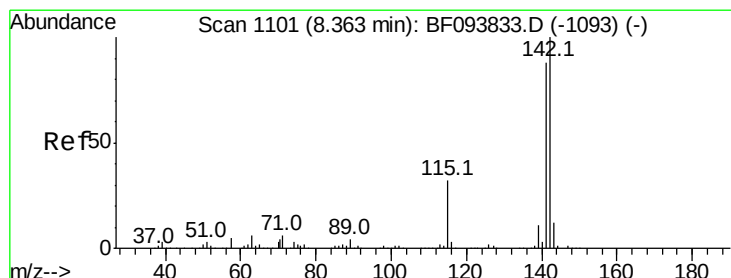
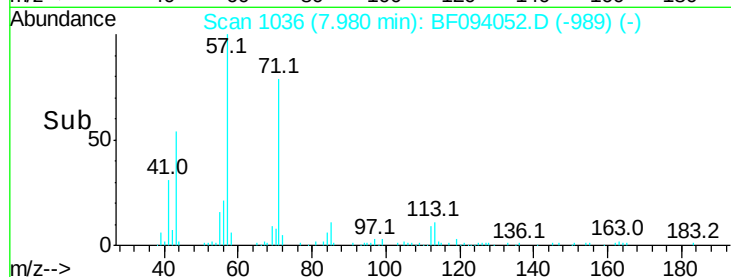
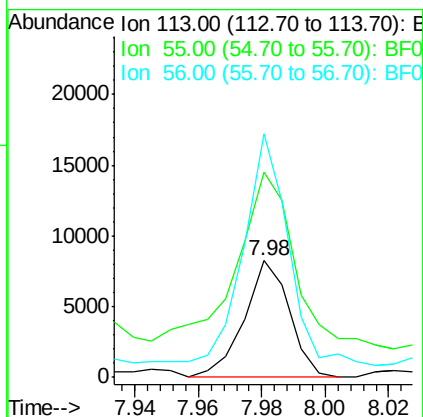
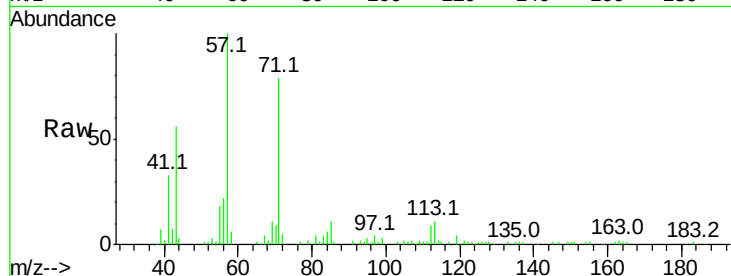




#35
 Caprolactam
 Concen: 3.08 ng
 RT: 7.98 min Scan# 1036
 Delta R.T. -0.02 min
 Lab File: BF094052.D
 Acq: 30 Mar 2017 8:35

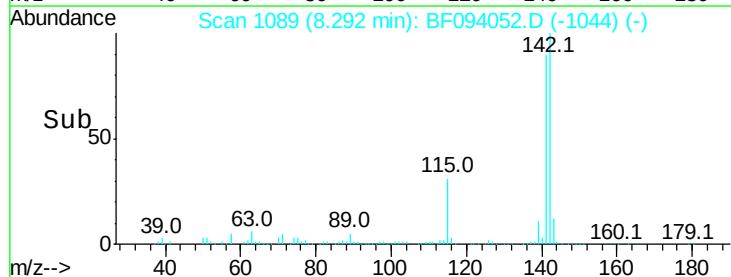
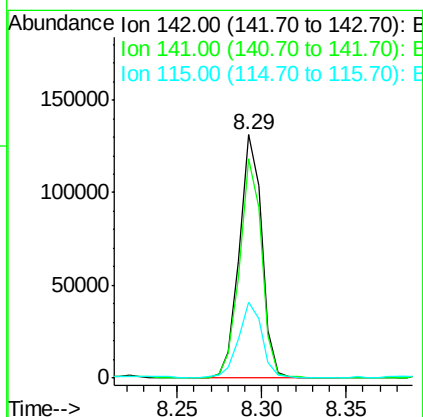
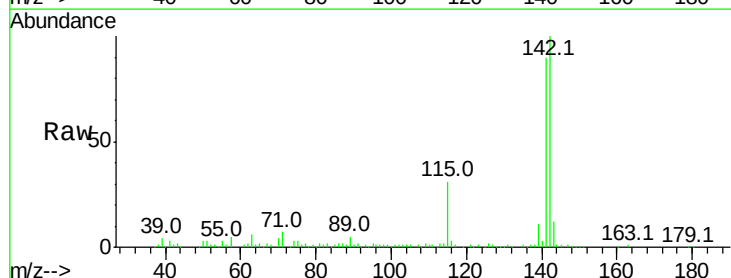
Instrument :
 BNA_F
 ClientSampleId :

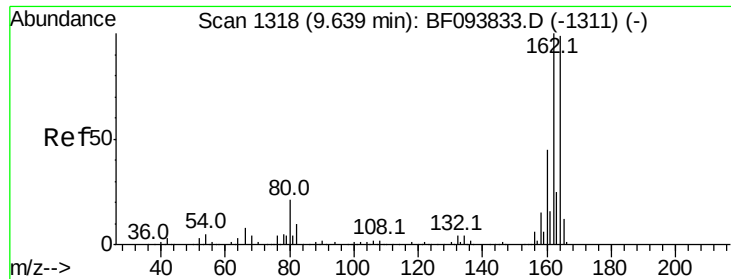
Tot Ion:113 Resp: 8206
 Ion Ratio Lower Upper
 113 100
 55 175.4 150.2 190.2
 56 208.7 107.8 147.8#



#37
 2-Methylnaphthalene
 Concen: 6.05 ng
 RT: 8.29 min Scan# 1089
 Delta R.T. -0.04 min
 Lab File: BF094052.D
 Acq: 30 Mar 2017 8:35

Tgt Ion:142 Resp: 121968
 Ion Ratio Lower Upper
 142 100
 141 90.0 71.3 106.9
 115 31.3 27.1 40.7

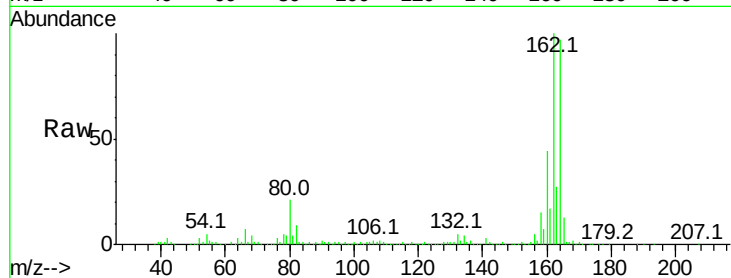




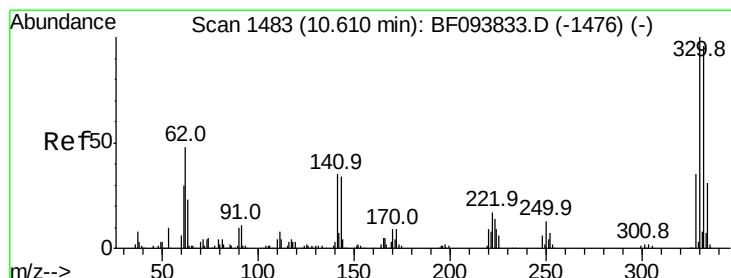
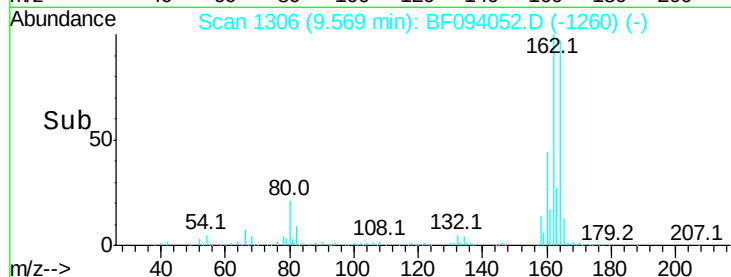
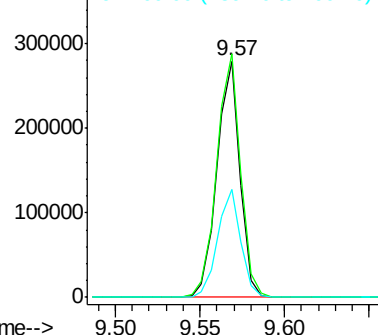
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.57 min Scan# 1306
 Delta R.T. -0.03 min
 Lab File: BF094052.D
 Acq: 30 Mar 2017 8:35

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:164 Resp: 265982
 Ion Ratio Lower Upper
 164 100
 162 103.0 82.6 123.8
 160 45.7 36.2 54.2

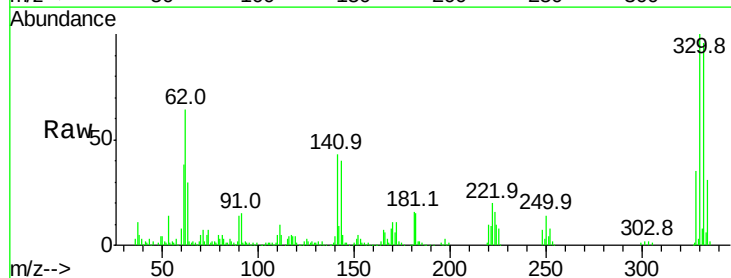


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

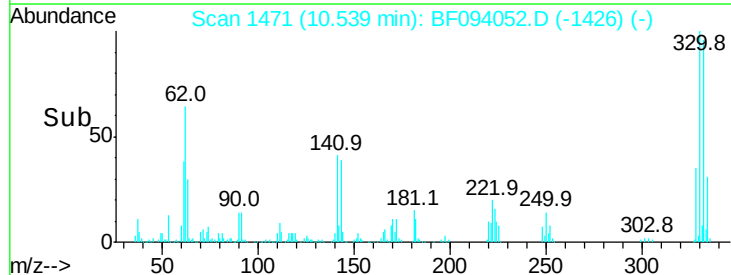
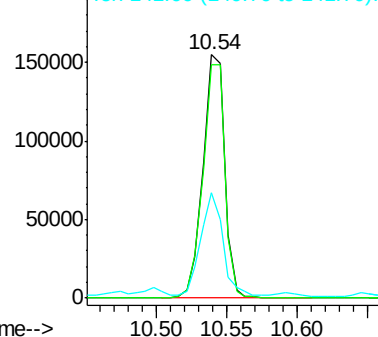


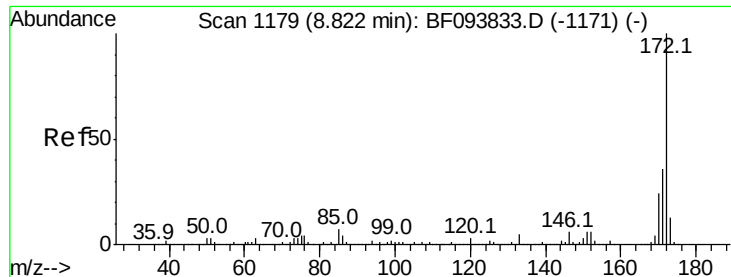
#41
 2,4,6-Tribromophenol
 Concen: 79.27 ng
 RT: 10.54 min Scan# 1471
 Delta R.T. -0.04 min
 Lab File: BF094052.D
 Acq: 30 Mar 2017 8:35

Tgt Ion:330 Resp: 166609
 Ion Ratio Lower Upper
 330 100
 332 97.0 76.6 115.0
 141 43.8 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



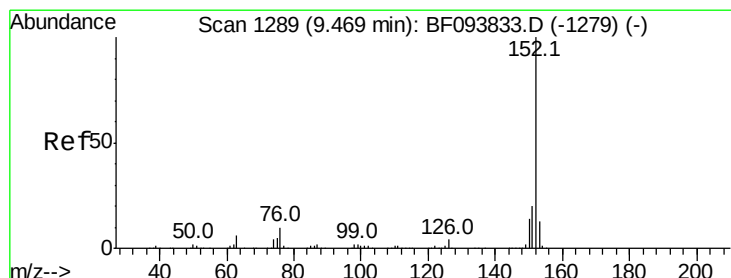
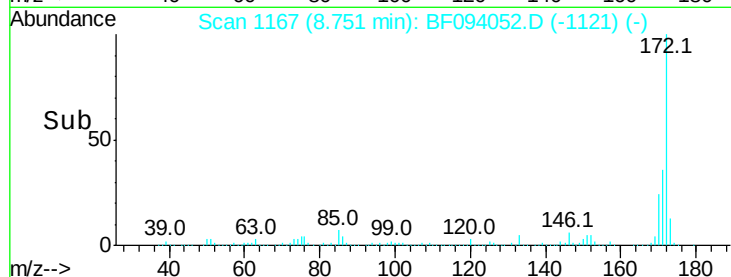
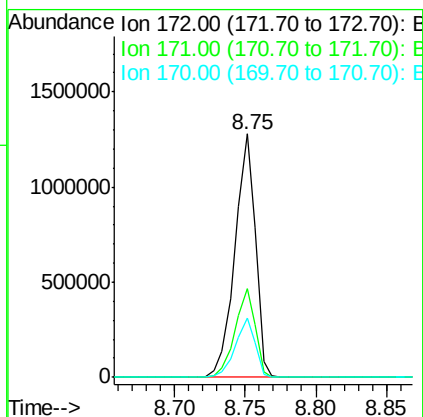
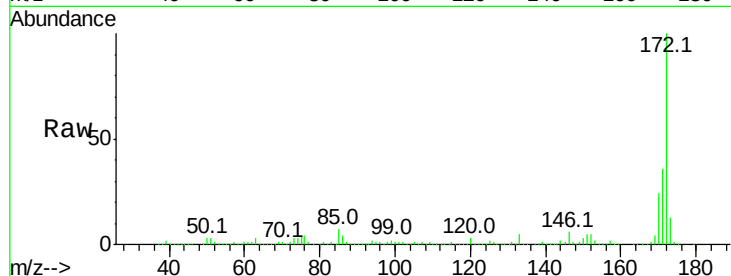


#44
 2-Fluorobiphenyl
 Concen: 74.11 ng
 RT: 8.75 min Scan# 1167
 Delta R.T. -0.03 min
 Lab File: BF094052.D
 Acq: 30 Mar 2017 8:35

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:172 Resp: 1292372

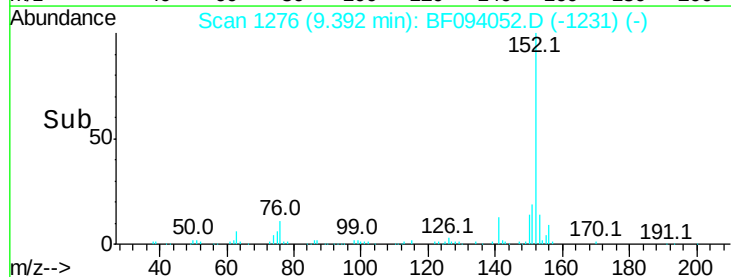
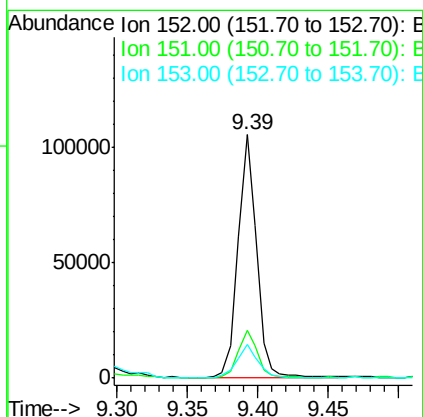
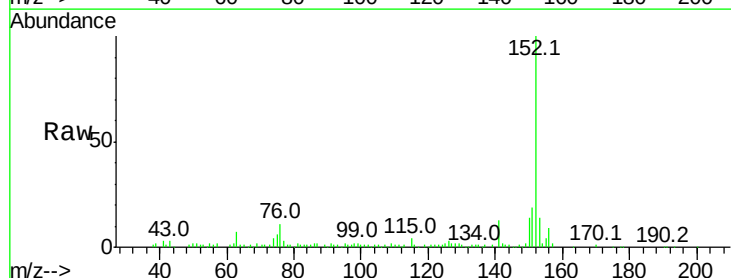
Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.6	44.4
170	24.1	19.8	29.8

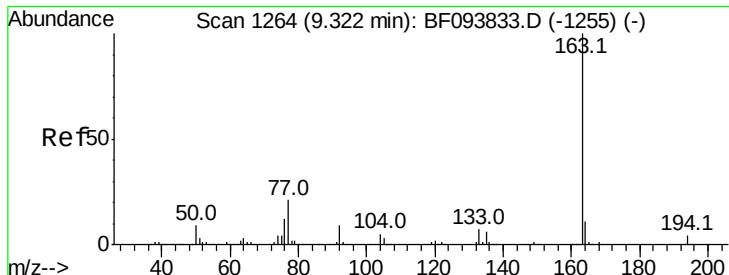


#48
 Acenaphthylene
 Concen: 3.51 ng
 RT: 9.39 min Scan# 1276
 Delta R.T. -0.04 min
 Lab File: BF094052.D
 Acq: 30 Mar 2017 8:35

Tgt Ion:152 Resp: 97955

Ion	Ratio	Lower	Upper
152	100		
151	19.4	16.8	25.2
153	14.0	10.8	16.2

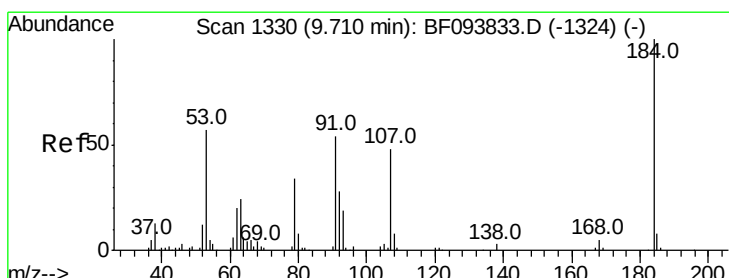
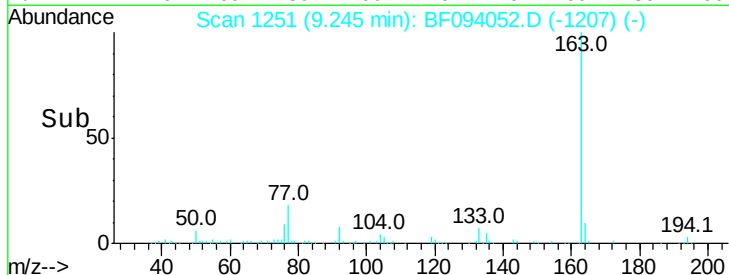
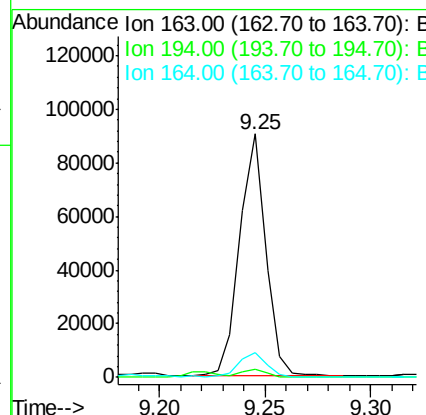
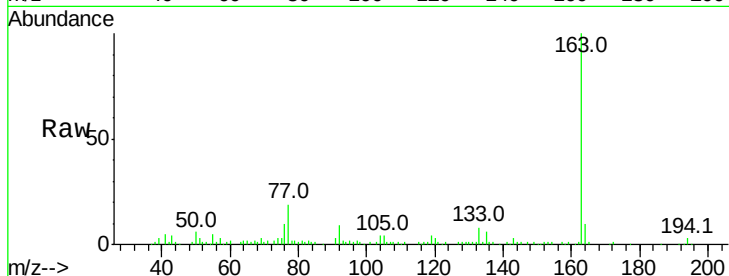




#49
 Dimethylphthalate
 Concen: 4.11 ng
 RT: 9.25 min Scan# 1251
 Delta R.T. -0.04 min
 Lab File: BF094052.D
 Acq: 30 Mar 2017 8:35

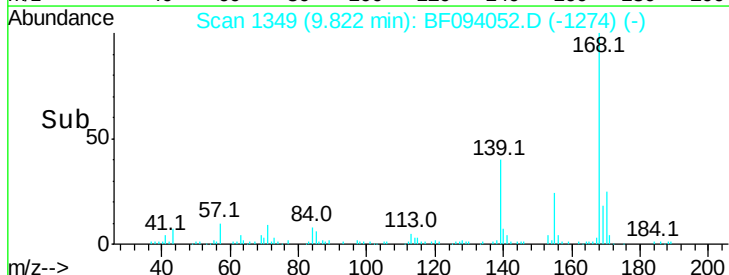
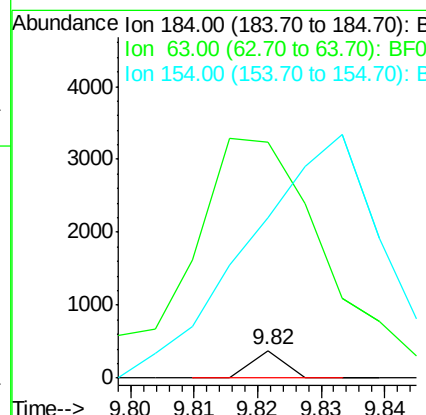
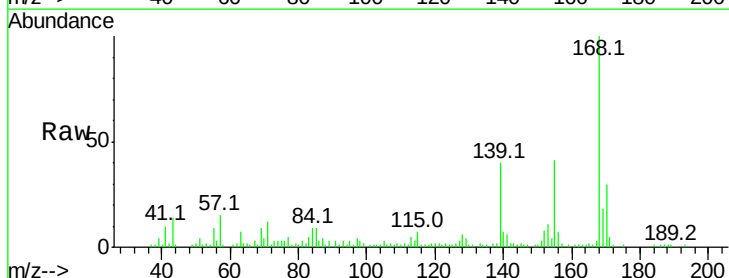
Instrument :
 BNA_F
 ClientSampleId :

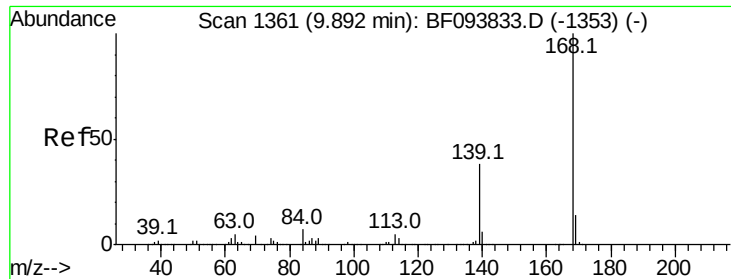
Tot Ion:163 Resp: 77758
 Ion Ratio Lower Upper
 163 100
 194 3.3 2.6 4.0
 164 10.3 8.4 12.6



#53
 2,4-Dinitrophenol
 Concen: 4.72 ng
 RT: 9.82 min Scan# 1349
 Delta R.T. 0.14 min
 Lab File: BF094052.D
 Acq: 30 Mar 2017 8:35

Tgt Ion:184 Resp: 134
 Ion Ratio Lower Upper
 184 100
 63 848.0 62.7 94.1#
 154 579.5 81.1 121.7#





#54

Dibenzofuran

Concen: 2.34 ng

RT: 9.82 min Scan# 1348

Delta R.T. -0.04 min

Lab File: BF094052.D

Acq: 30 Mar 2017 8:35

Instrument :

BNA_F

ClientSampleId :

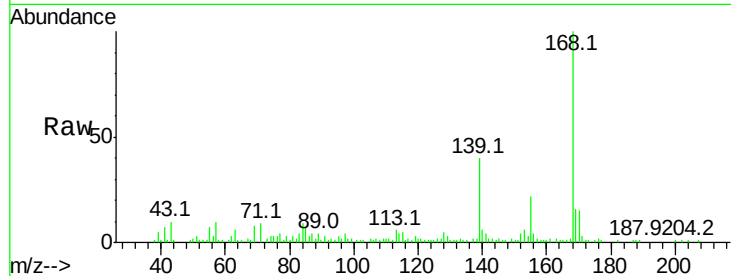
Tot Ion:168 Resp: 51789

Ion Ratio Lower Upper

168 100

139 40.5 30.6 45.8

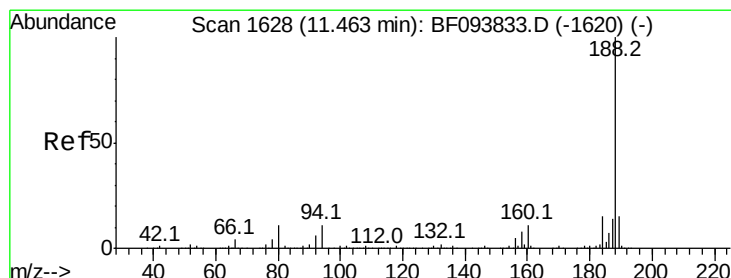
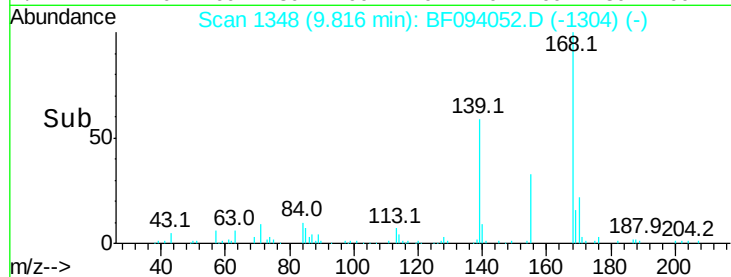
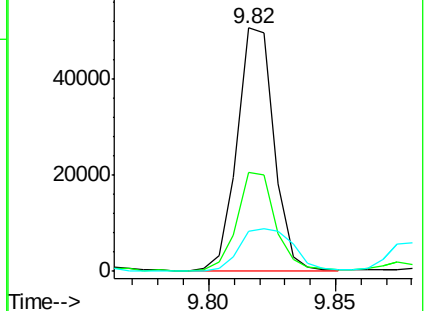
169 16.2 10.8 16.2#



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



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.39 min Scan# 1616

Delta R.T. -0.03 min

Lab File: BF094052.D

Acq: 30 Mar 2017 8:35

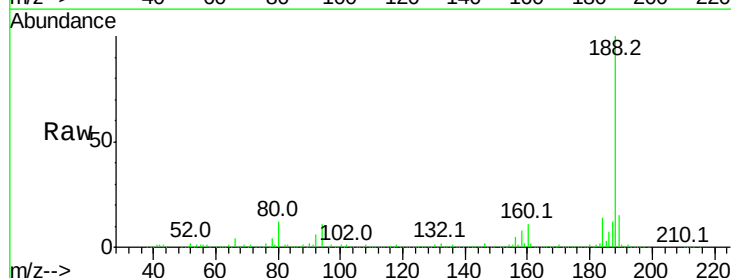
Tgt Ion:188 Resp: 405485

Ion Ratio Lower Upper

188 100

94 11.1 9.4 14.2

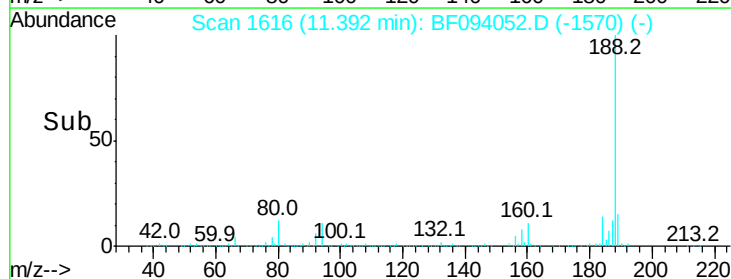
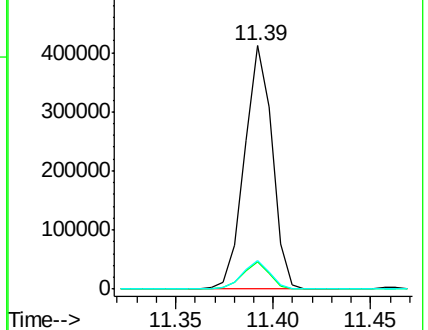
80 11.8 10.2 15.2

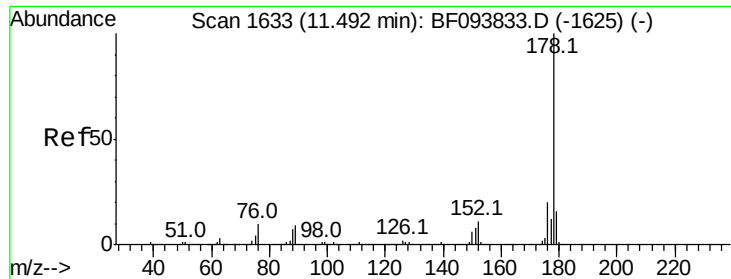


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

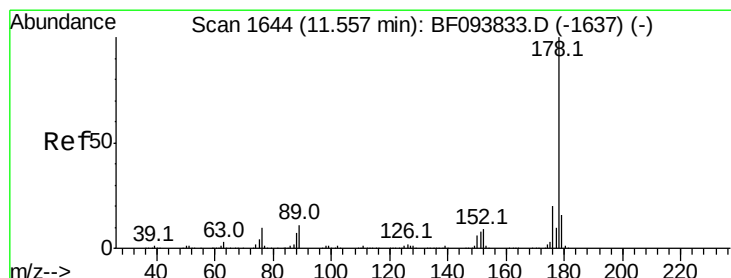
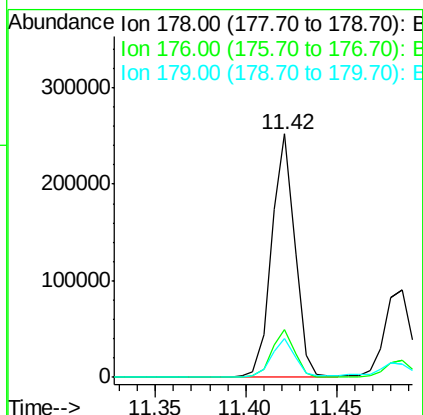
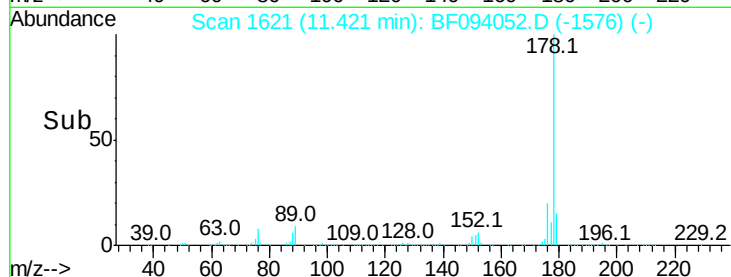
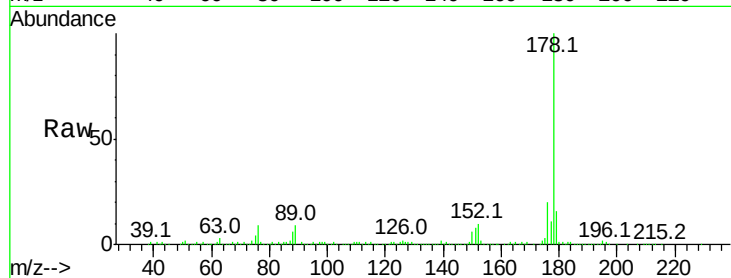




#70
Phenanthrene
Concen: 9.88 ng
RT: 11.42 min Scan# 1621
Delta R.T. -0.04 min
Lab File: BF094052.D
Acq: 30 Mar 2017 8:35

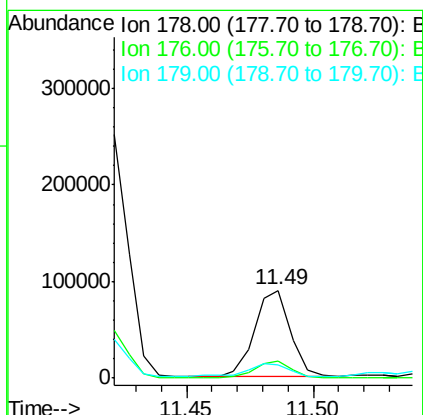
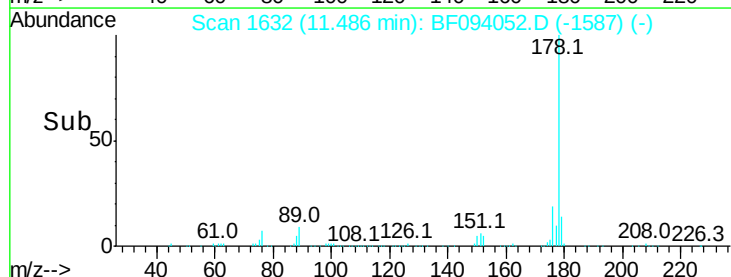
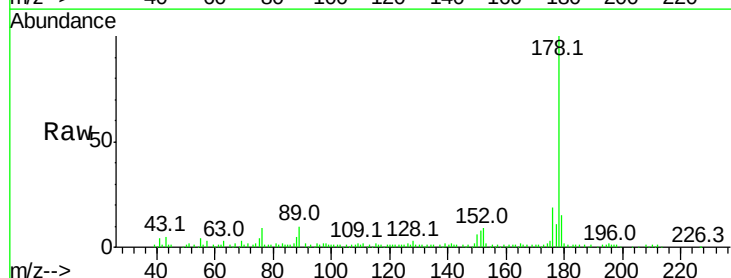
Instrument :
BNA_F
ClientSampleId :

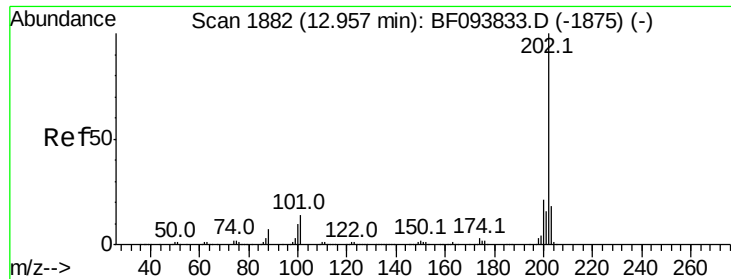
Tot Ion:178 Resp: 222941
Ion Ratio Lower Upper
178 100
176 19.7 16.2 24.4
179 15.7 12.6 19.0



#71
Anthracene
Concen: 3.81 ng
RT: 11.49 min Scan# 1632
Delta R.T. -0.04 min
Lab File: BF094052.D
Acq: 30 Mar 2017 8:35

Tgt Ion:178 Resp: 88543
Ion Ratio Lower Upper
178 100
176 19.2 15.8 23.8
179 15.0 12.7 19.1





#74

Fluoranthene

Concen: 15.23 ng

RT: 12.89 min Scan# 1870

Delta R.T. -0.04 min

Lab File: BF094052.D

Acq: 30 Mar 2017 8:35

Instrument :

BNA_F

ClientSampleId :

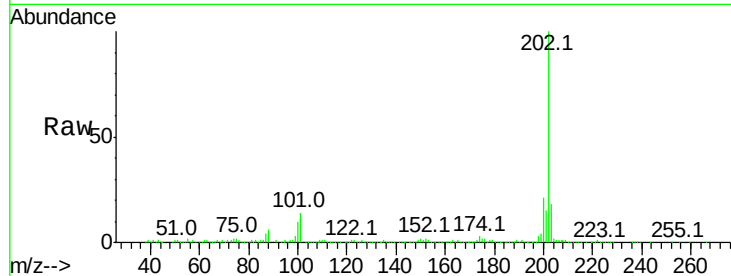
Tot Ion:202 Resp: 351687

Ion Ratio Lower Upper

202 100

101 13.7 0.0 33.2

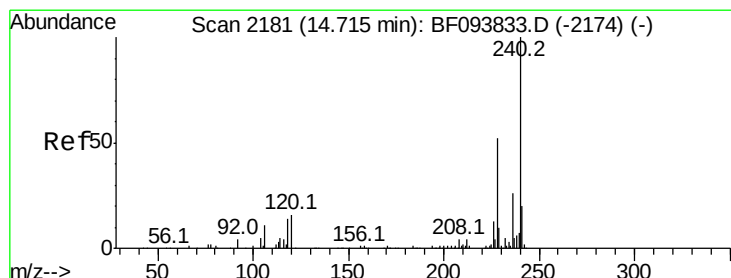
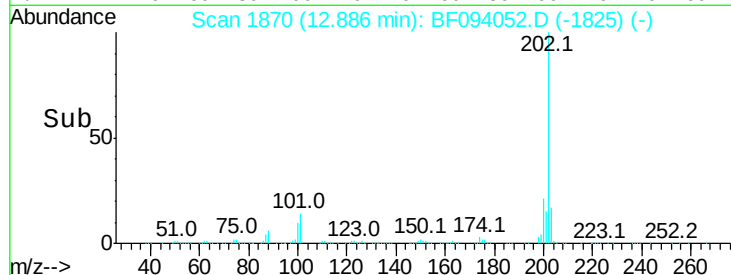
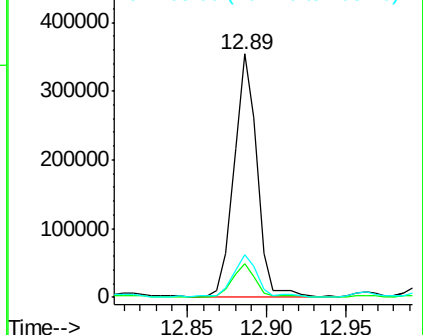
203 17.6 0.0 38.1



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: 14.65 min Scan# 2170

Delta R.T. -0.03 min

Lab File: BF094052.D

Acq: 30 Mar 2017 8:35

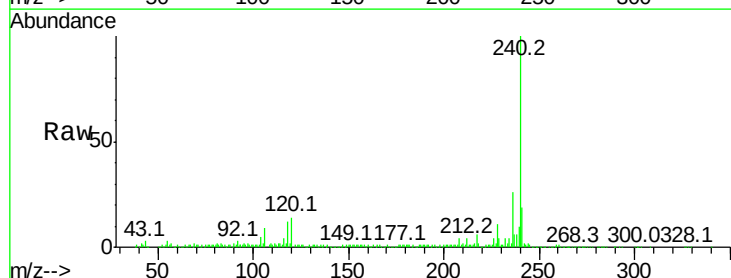
Tgt Ion:240 Resp: 296638

Ion Ratio Lower Upper

240 100

120 14.3 5.8 8.8#

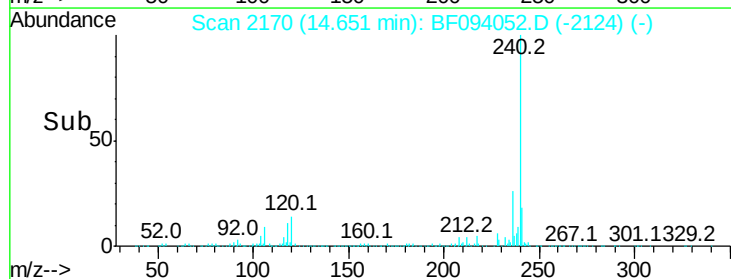
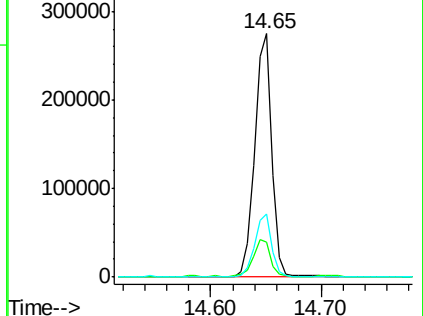
236 25.9 20.5 30.7

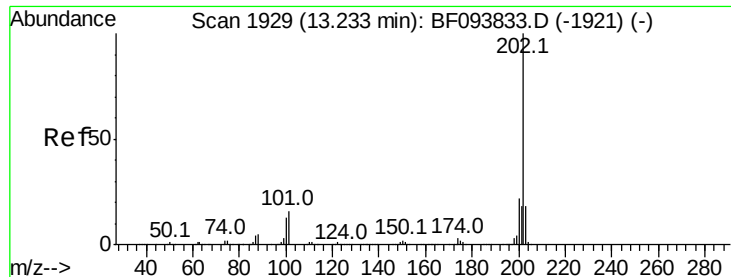


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 16.44 ng

RT: 13.16 min Scan# 1917

Delta R.T. -0.04 min

Lab File: BF094052.D

Acq: 30 Mar 2017 8:35

Instrument :

BNA_F

ClientSampleId :

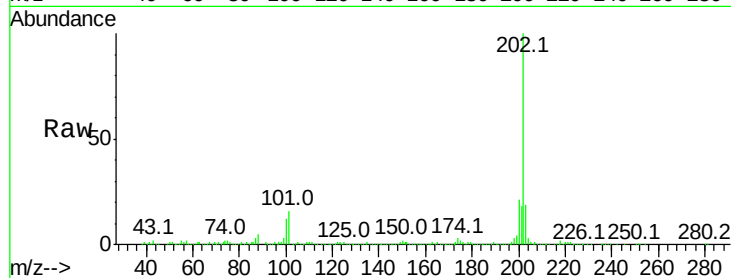
Tot Ion:202 Resp: 353989

Ion Ratio Lower Upper

202 100

200 21.5 17.6 26.4

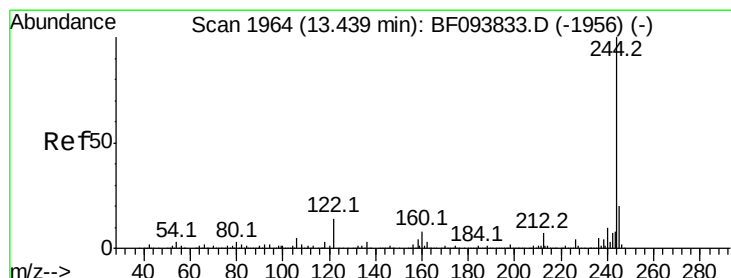
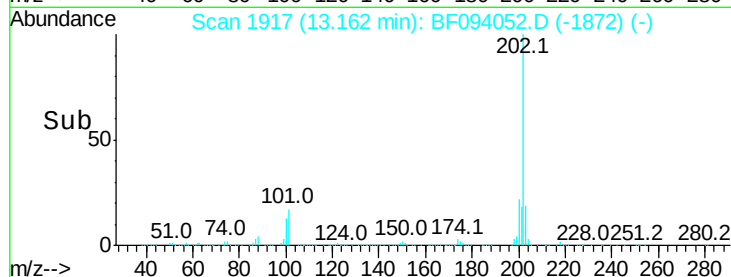
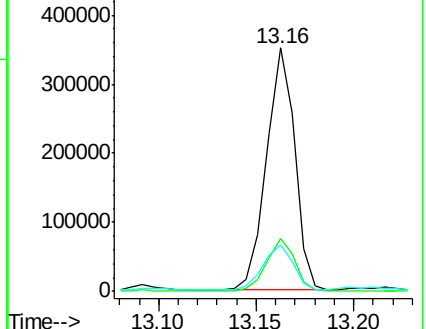
203 19.0 14.4 21.6



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: 58.23 ng

RT: 13.37 min Scan# 1953

Delta R.T. -0.03 min

Lab File: BF094052.D

Acq: 30 Mar 2017 8:35

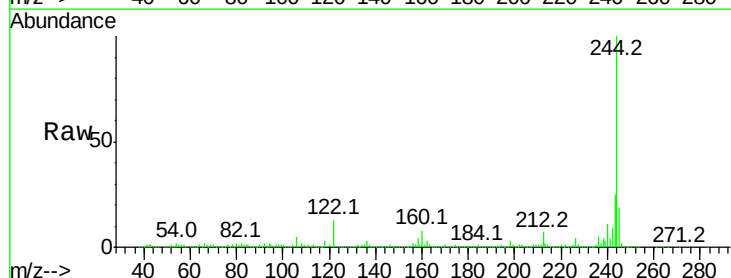
Tgt Ion:244 Resp: 770589

Ion Ratio Lower Upper

244 100

212 7.1 6.0 9.0

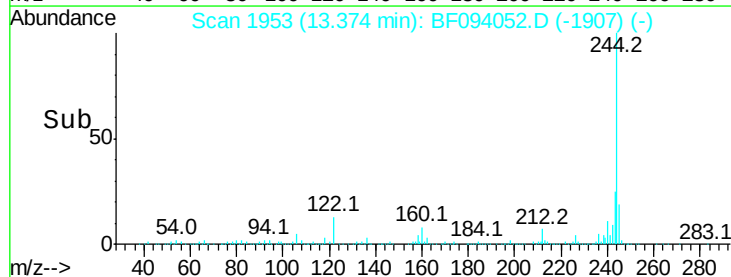
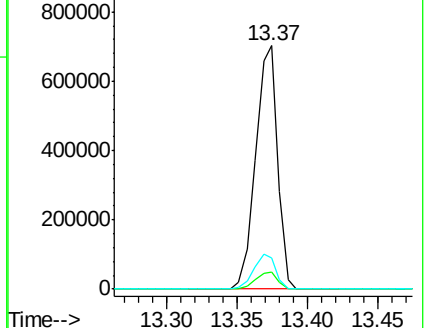
122 12.9 10.3 15.5

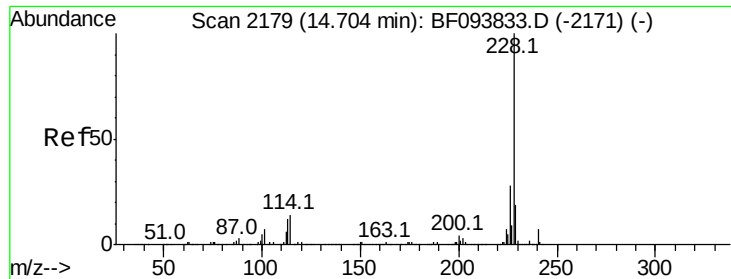


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 14.18 ng

RT: 14.68 min Scan# 2175

Delta R.T. 0.01 min

Lab File: BF094052.D

Acq: 30 Mar 2017 8:35

Instrument :

BNA_F

ClientSampleId :

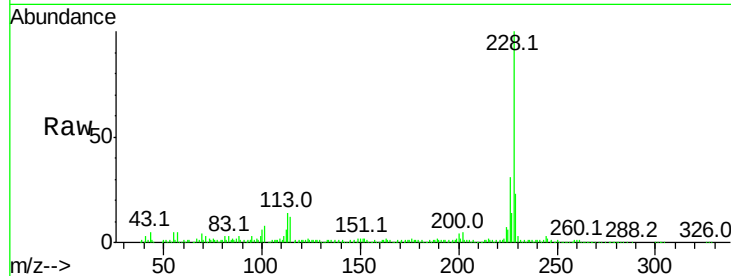
Tot Ion:228 Resp: 245342

Ion Ratio Lower Upper

228 100

226 31.2 22.6 33.8

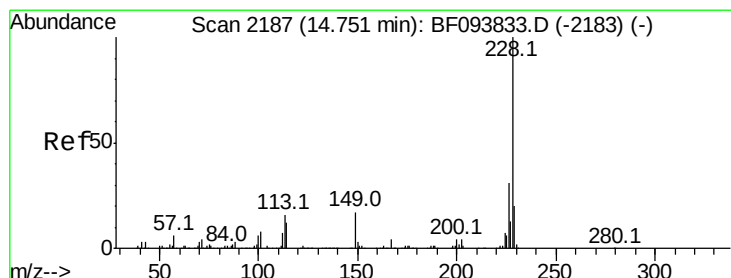
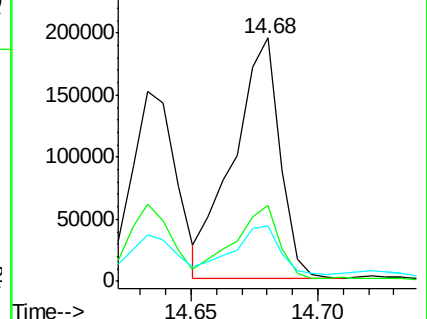
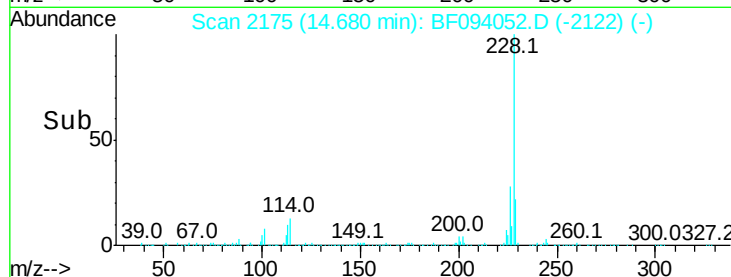
229 22.6 16.3 24.5



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

Chrysene

Concen: 15.28 ng

RT: 14.68 min Scan# 2175

Delta R.T. -0.04 min

Lab File: BF094052.D

Acq: 30 Mar 2017 8:35

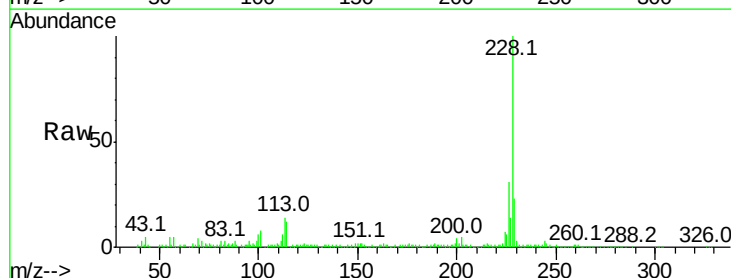
Tgt Ion:228 Resp: 245342

Ion Ratio Lower Upper

228 100

226 31.2 24.9 37.3

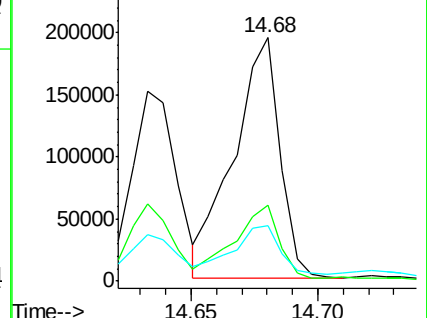
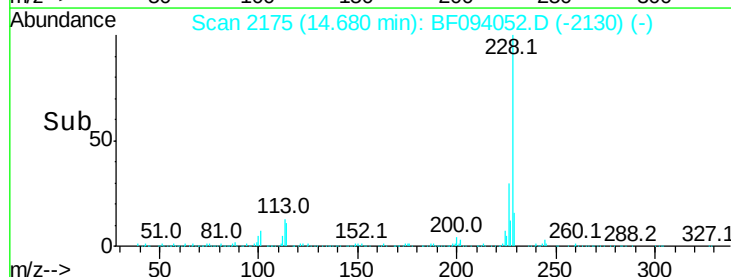
229 22.6 15.8 23.6

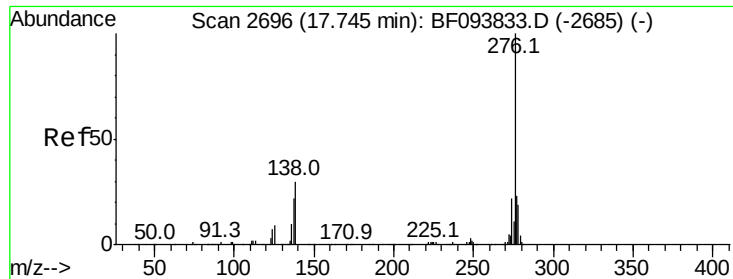


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

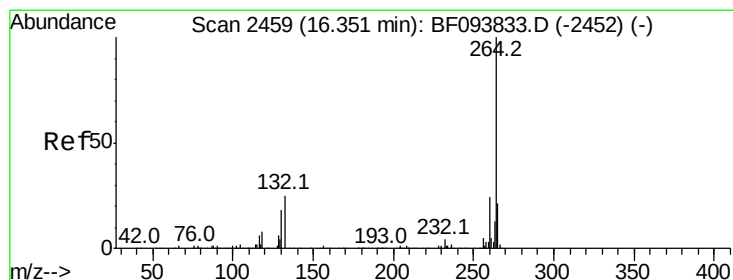
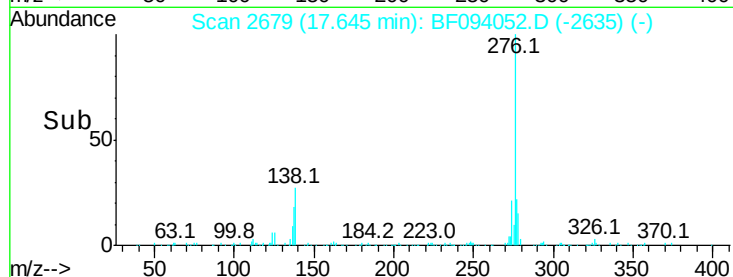
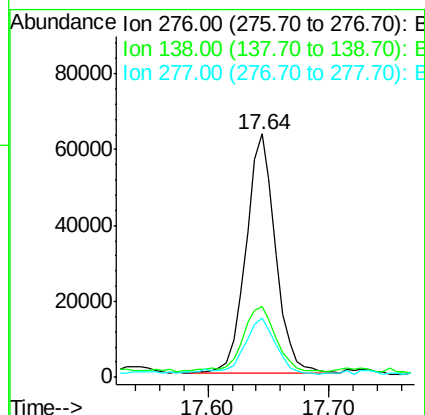
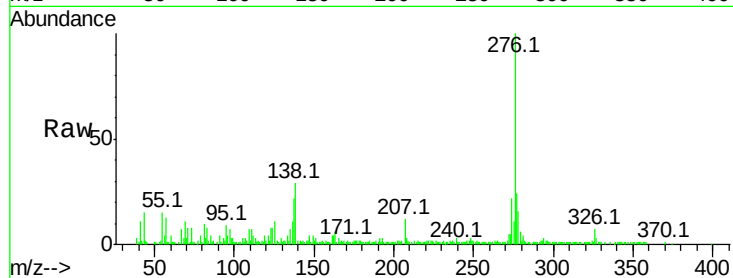




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 7.75 ng
 RT: 17.64 min Scan# 2679
 Delta R.T. -0.04 min
 Lab File: BF094052.D
 Acq: 30 Mar 2017 8:35

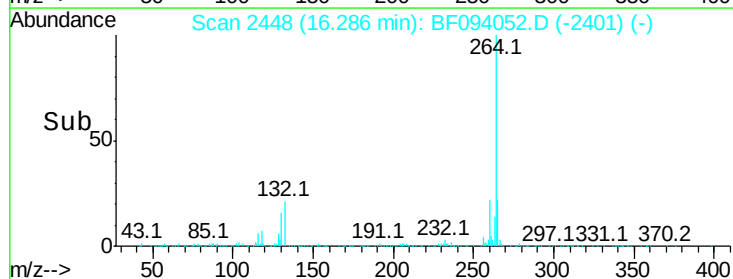
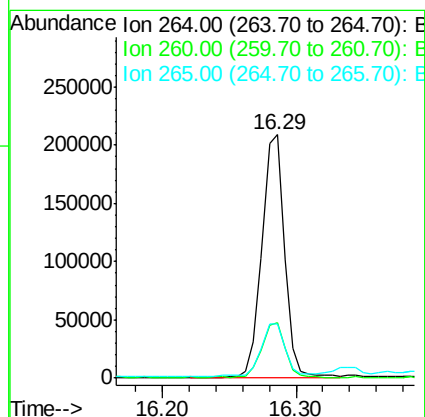
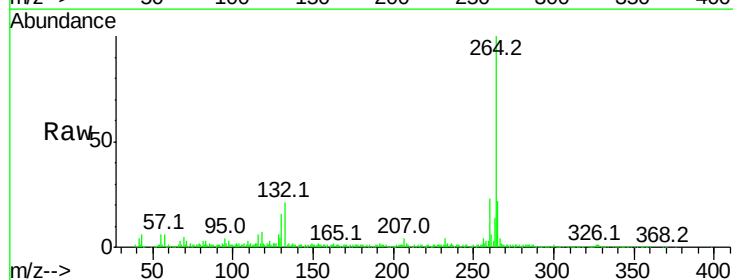
Instrument :
 BNA_F
 ClientSampleId :

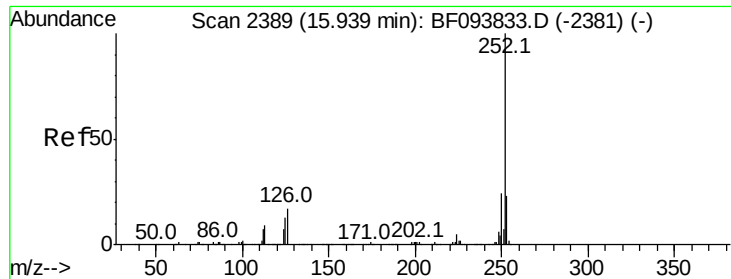
Tot Ion:276 Resp: 107755
 Ion Ratio Lower Upper
 276 100
 138 30.2 27.8 41.6
 277 26.9 20.2 30.4



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 16.29 min Scan# 2448
 Delta R.T. -0.02 min
 Lab File: BF094052.D
 Acq: 30 Mar 2017 8:35

Tgt Ion:264 Resp: 244359
 Ion Ratio Lower Upper
 264 100
 260 22.8 19.5 29.3
 265 22.2 17.2 25.8





#87

Benzo(b)fluoranthene

Concen: 27.00 ng

RT: 15.87 min Scan# 2378

Delta R.T. -0.02 min

Lab File: BF094052.D

Acq: 30 Mar 2017 8:35

Instrument :

BNA_F

ClientSampleId :

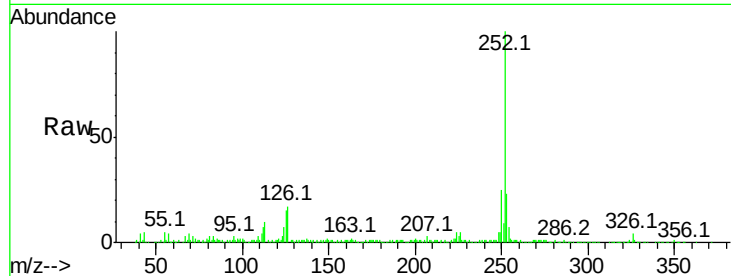
Tot Ion:252 Resp: 404404

Ion Ratio Lower Upper

252 100

253 23.1 18.1 27.1

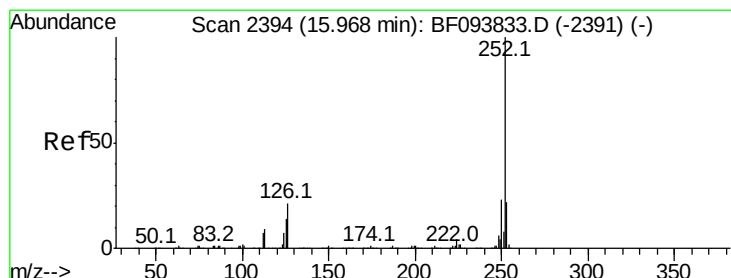
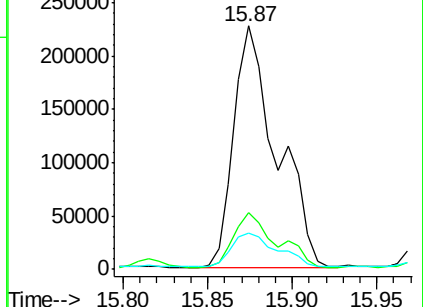
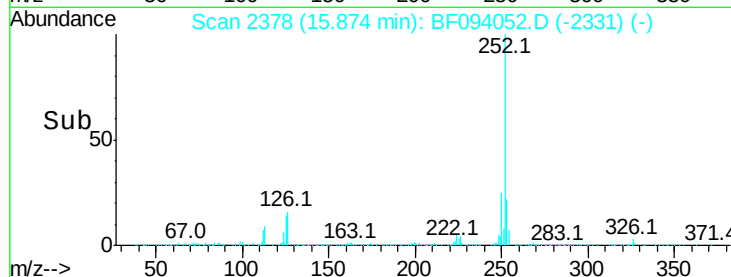
125 15.0 9.8 14.8#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 27.59 ng

RT: 15.87 min Scan# 2378

Delta R.T. -0.06 min

Lab File: BF094052.D

Acq: 30 Mar 2017 8:35

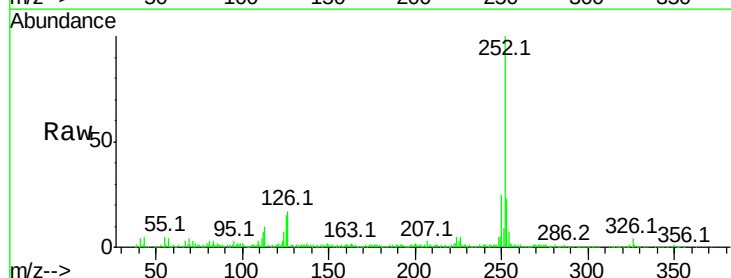
Tgt Ion:252 Resp: 404404

Ion Ratio Lower Upper

252 100

253 23.1 18.4 27.6

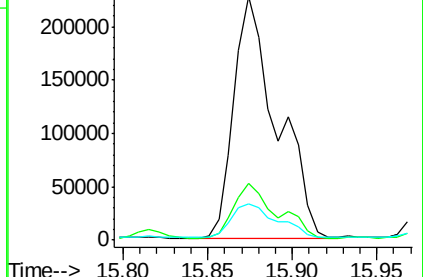
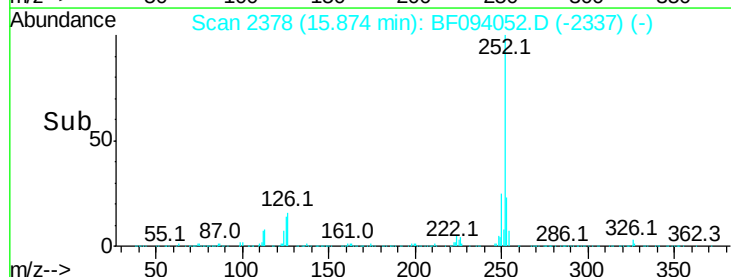
125 15.0 13.1 19.7

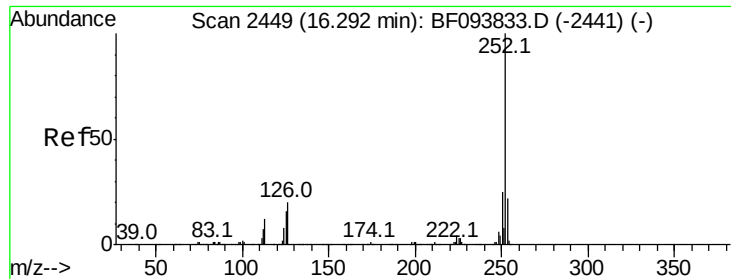


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 11.59 ng

RT: 16.22 min Scan# 2437

Delta R.T. -0.03 min

Lab File: BF094052.D

Acq: 30 Mar 2017 8:35

Instrument :

BNA_F

ClientSampleId :

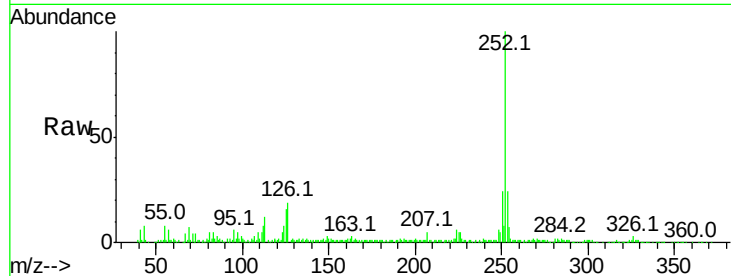
Tot Ion:252 Resp: 159874

Ion Ratio Lower Upper

252 100

253 24.3 17.5 26.3

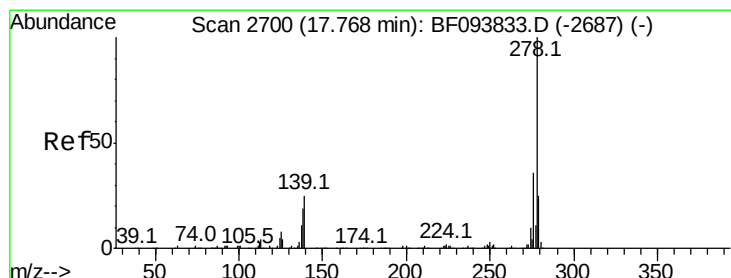
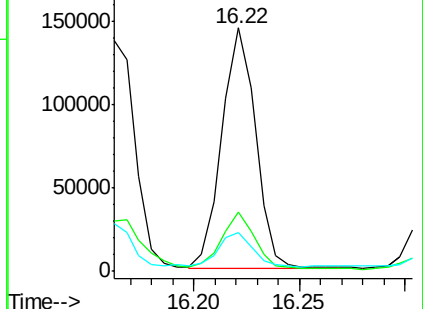
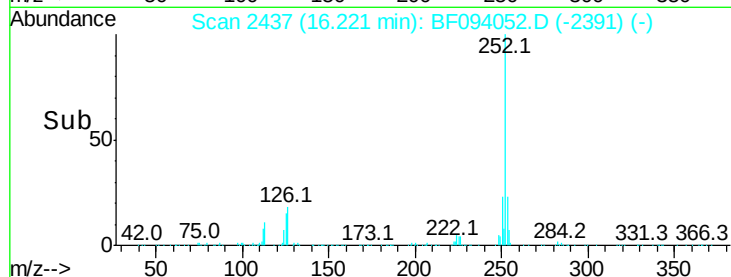
125 16.0 11.0 16.4



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



#90

Dibenzo(a,h)anthracene

Concen: 2.55 ng

RT: 17.66 min Scan# 2681

Delta R.T. -0.05 min

Lab File: BF094052.D

Acq: 30 Mar 2017 8:35

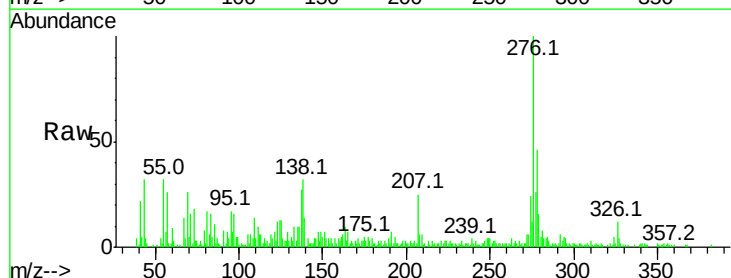
Tgt Ion:278 Resp: 29824

Ion Ratio Lower Upper

278 100

139 29.6 16.6 24.8#

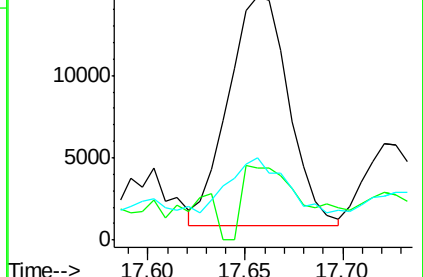
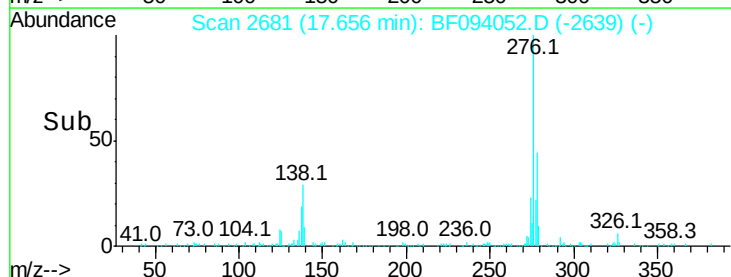
279 33.9 19.3 28.9#

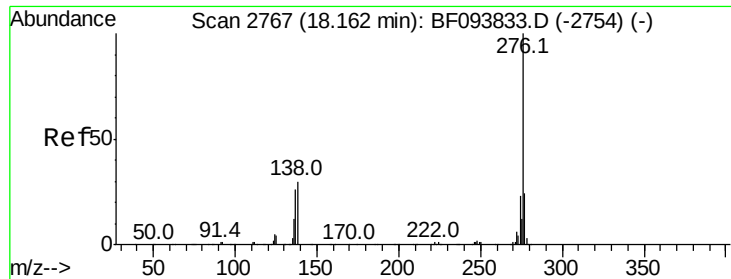


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(a,h,i)perylene

Concen: 8.59 ng

RT: 18.04 min Scan# 2747

Delta R.T. -0.05 min

Lab File: BF094052.D

Acq: 30 Mar 2017 8:35

Instrument :

BNA_F

ClientSampleId :

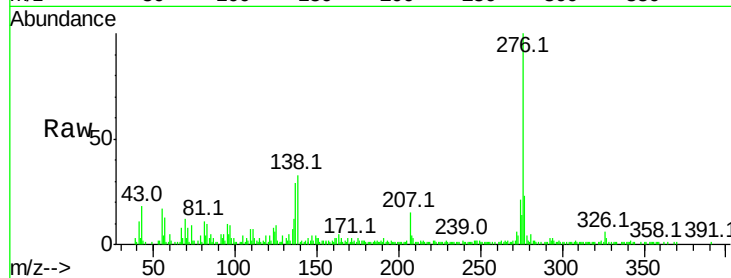
Tot Ion:276 Resp: 101136

Ion Ratio Lower Upper

276 100

277 23.1 18.6 28.0

138 33.4 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

