

Data Path : Z:\HPCHEM1\BNA F\Data\BF032117\
 Data File : BF093794.D
 Acq On : 21 Mar 2017 13:24
 Operator : SJ/MA
 Sample : I2280-07DL 250X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CTMIX-4DL

Quant Time: Mar 21 14:48:25 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

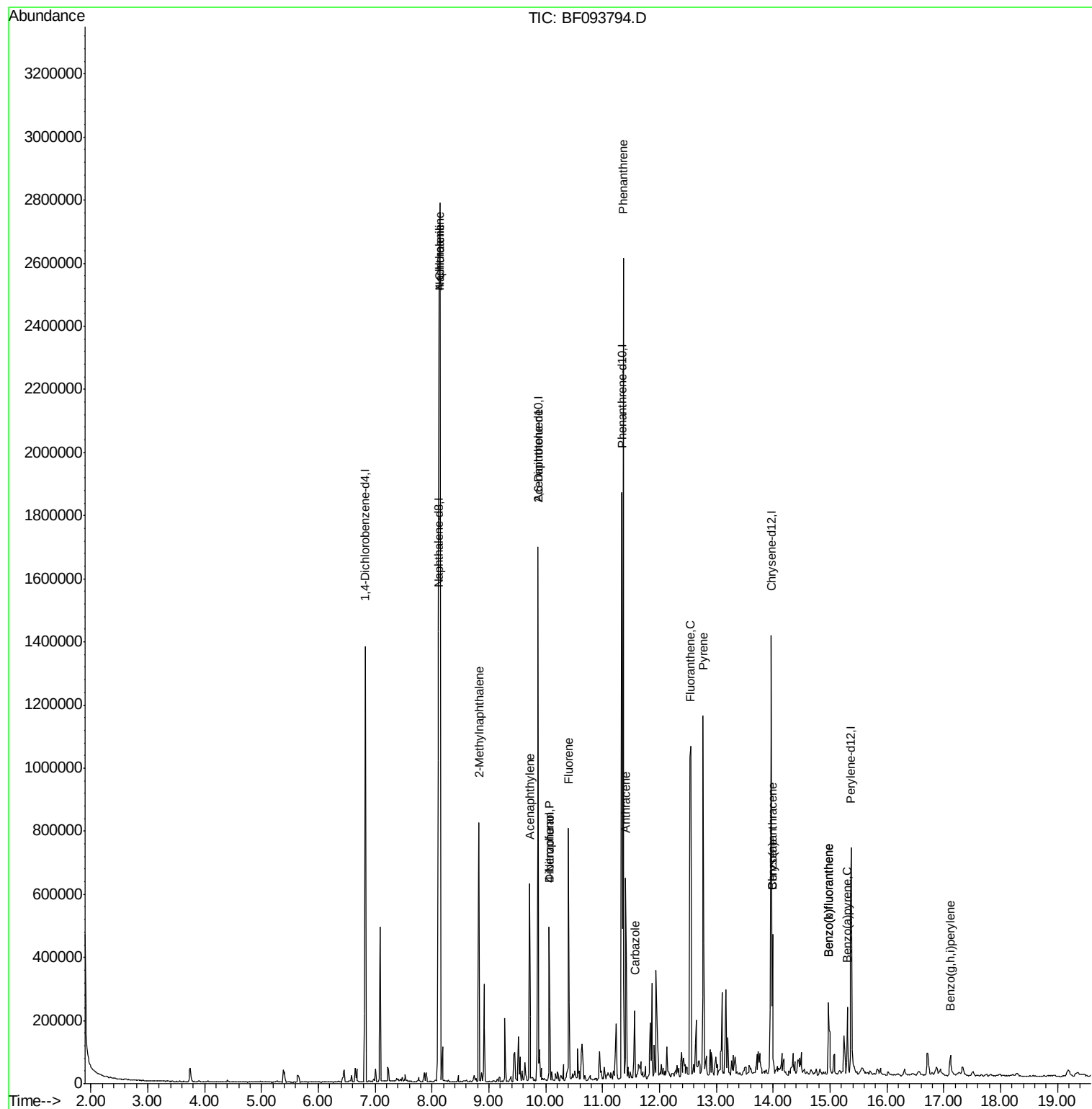
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	197357	20.00	ng	0.00
21) Naphthalene-d8	8.12	136	790852	20.00	ng	0.00
38) Acenaphthene-d10	9.86	164	375234	20.00	ng	0.00
63) Phenanthrene-d10	11.34	188	643109	20.00	ng	0.00
75) Chrysene-d12	13.97	240	475519	20.00	ng	0.00
86) Perylene-d12	15.37	264	326112	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.41	112	5288	0.47	ng	-0.01
7) Phenol-d6	6.44	99	6483	0.46	ng	-0.02
23) Nitrobenzene-d5	7.37	82	3424	0.25	ng	-0.02
41) 2,4,6-Tribromophenol	10.64	330	947	0.33	ng	-0.01
44) 2-Fluorobiphenyl	9.19	172	7835	0.35	ng	0.00
78) Terphenyl-d14	12.92	244	7095	0.30	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.14	128	1928072	52.52	ng	100
33) 4-Chloroaniline	8.14	127	261578	16.58	ng	# 34
37) 2-Methylnaphthalene	8.82	142	234051	9.77	ng	98
48) Acenaphthylene	9.72	152	268865	7.07	ng	99
50) 2,6-Dinitrotoluene	9.86	165	51788	8.83	ng	# 34
54) Dibenzofuran	10.06	168	210687	6.89	ng	95
55) 4-Nitrophenol	10.06	139	80383	15.21	ng	# 28
57) Fluorene	10.40	166	239086	10.21	ng	100
70) Phenanthrene	11.36	178	877526	25.62	ng	99
71) Anthracene	11.41	178	323162	9.16	ng	99
72) Carbazole	11.57	167	120782	3.46	ng	# 96
74) Fluoranthene	12.55	202	616341	17.51	ng	94
77) Pyrene	12.77	202	481292	12.16	ng	100
80) Benzo(a)anthracene	13.99	228	123980	4.16	ng	96
82) Chrysene	13.99	228	123995	4.17	ng	97
87) Benzo(b)fluoranthene	14.97	252	164388	7.48	ng	# 97
88) Benzo(k)fluoranthene	14.97	252	164388	10.13	ng	97
89) Benzo(a)pyrene	15.31	252	98986	5.55	ng	# 95
91) Benzo(a,h,i)perylene	17.12	276	48634	3.31	ng	97

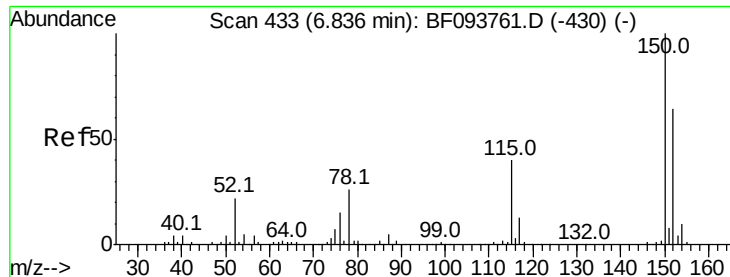
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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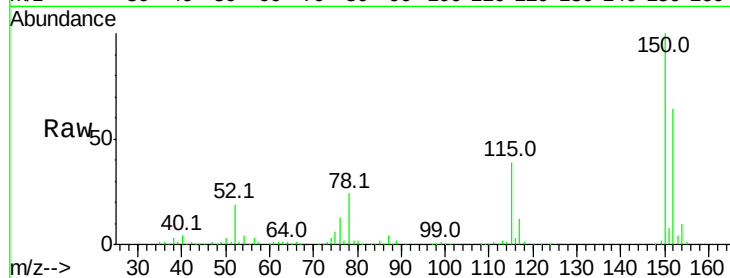


#1

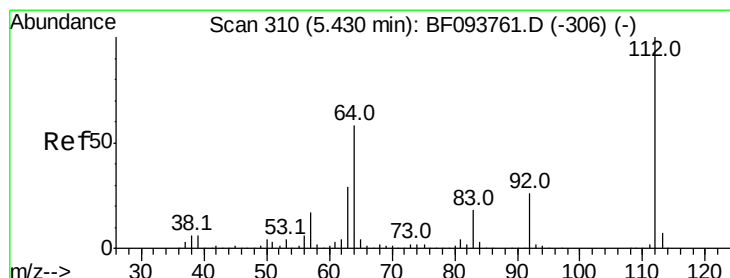
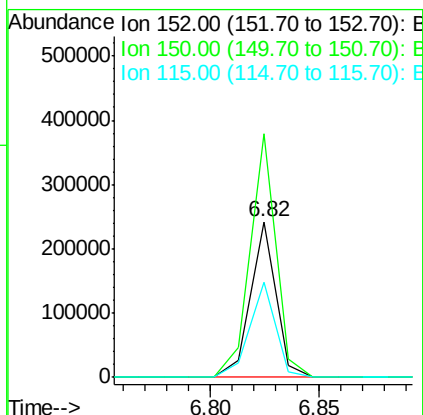
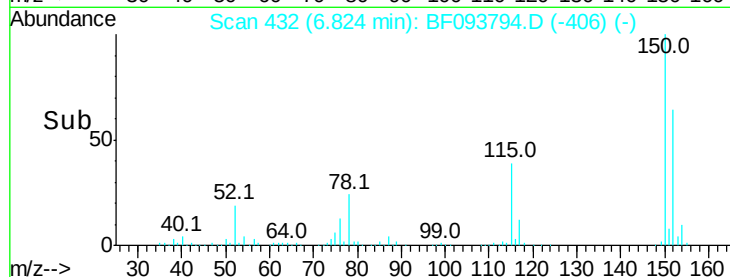
1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.82 min Scan# 432
 Delta R.T. -0.00 min
 Lab File: BF093794.D
 Acq: 21 Mar 2017 13:24

Instrument :
 BNA_F
 ClientSampleId :
 CTMIX-4DL

Tot Ion:152 Resp: 197357
 Ion Ratio Lower Upper
 152 100
 150 156.4 126.2 189.2
 115 61.3 52.2 78.2



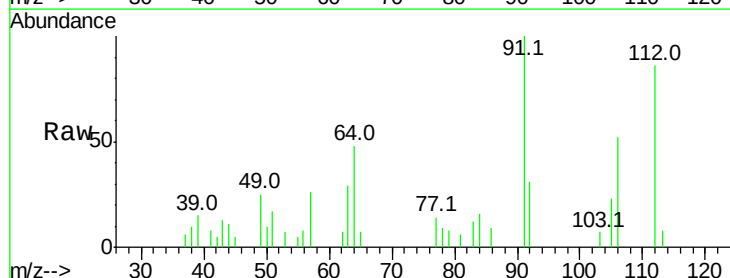
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



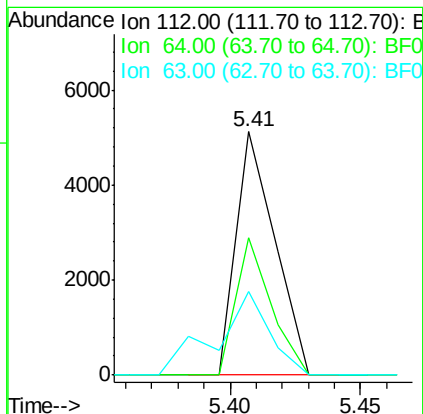
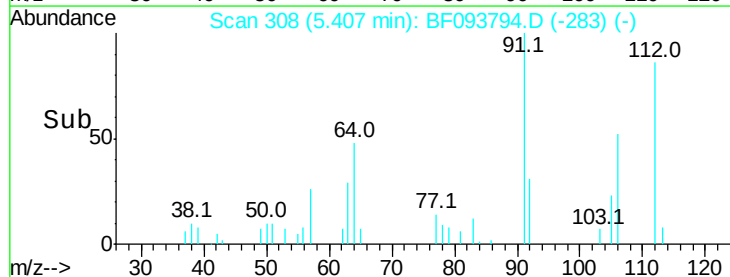
#5

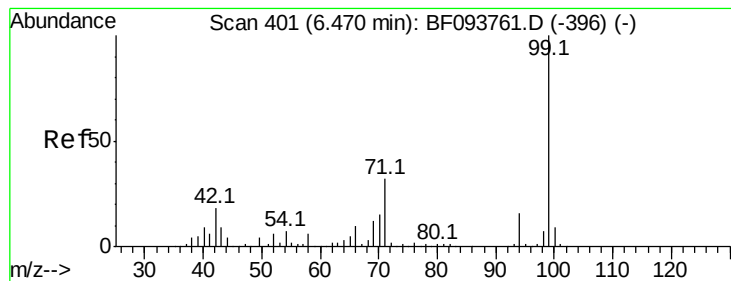
2-Fluorophenol
 Concen: 0.47 ng
 RT: 5.41 min Scan# 308
 Delta R.T. -0.01 min
 Lab File: BF093794.D
 Acq: 21 Mar 2017 13:24

Tgt Ion:112 Resp: 5288
 Ion Ratio Lower Upper
 112 100
 64 56.4 46.0 69.0
 63 34.3 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: 0.46 ng

RT: 6.44 min Scan# 398

Delta R.T. -0.02 min

Lab File: BF093794.D

Acq: 21 Mar 2017 13:24

Instrument :

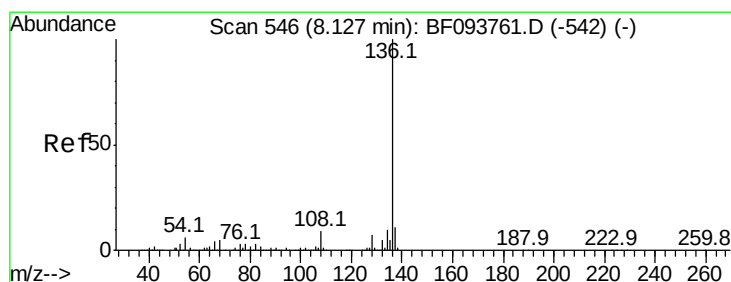
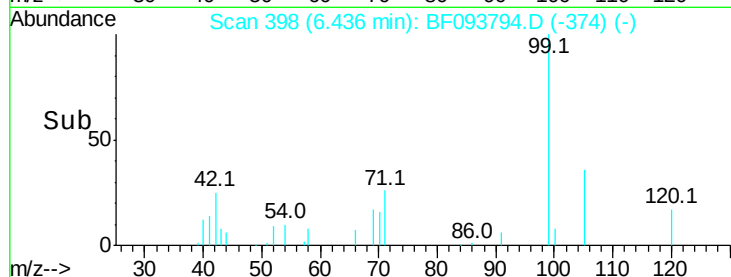
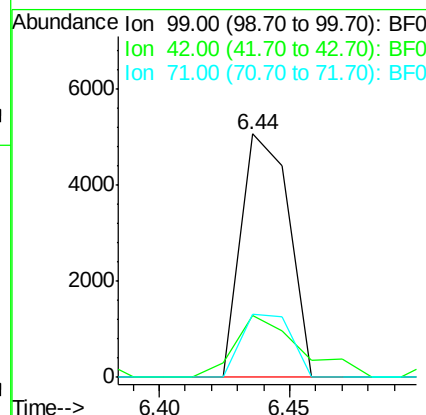
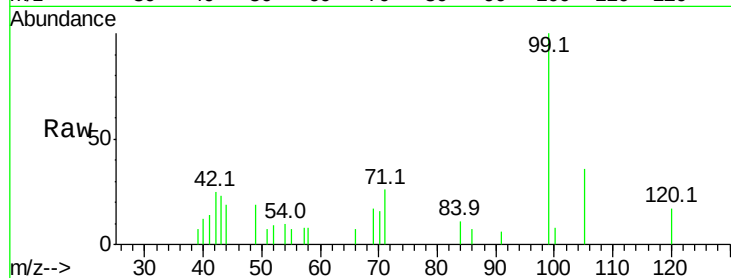
BNA_F

ClientSampleId :

CTMIX-4DL

Tot Ion: 99 Resp: 6483

Ion	Ratio	Lower	Upper
99	100		
42	25.4	13.5	20.3#
71	25.8	24.5	36.7



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.12 min Scan# 545

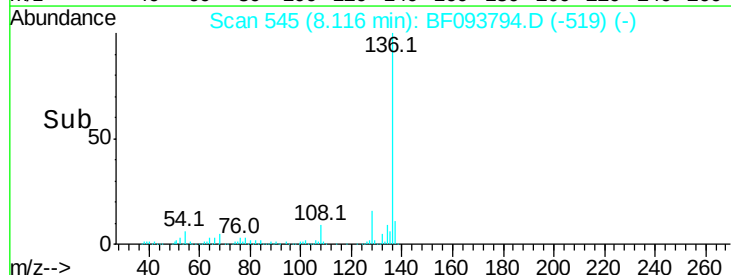
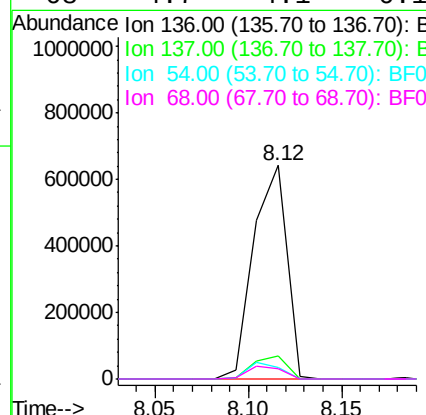
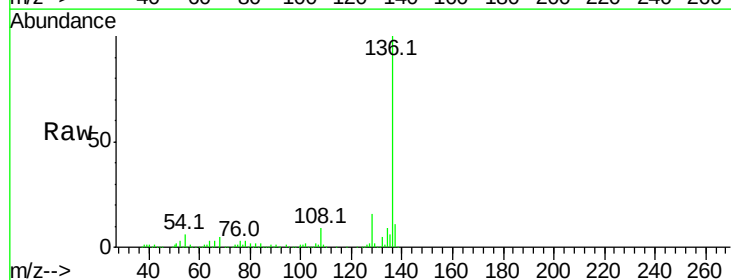
Delta R.T. -0.00 min

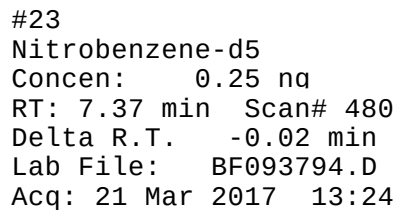
Lab File: BF093794.D

Acq: 21 Mar 2017 13:24

Tgt Ion: 136 Resp: 790852

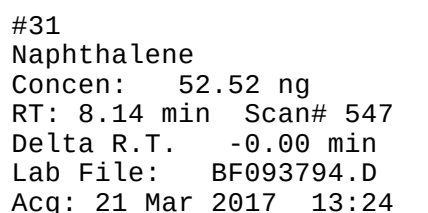
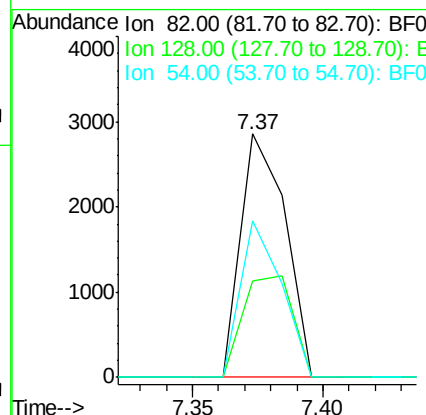
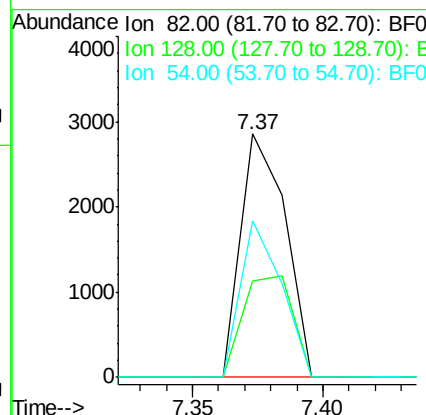
Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.5	12.7
54	5.6	4.9	7.3
68	4.7	4.1	6.1



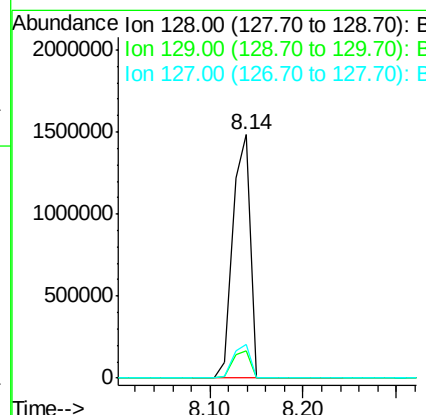
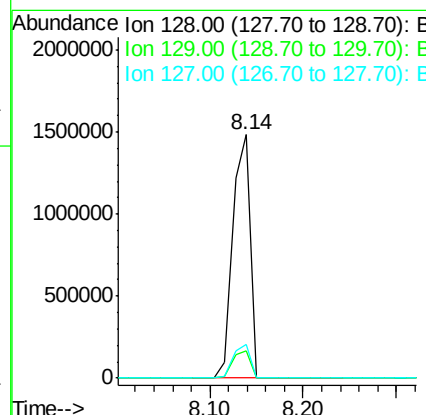


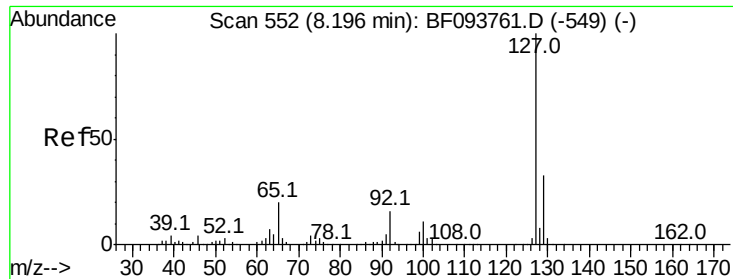
Instrument :
BNA_F
ClientSampleId :
CTMIX-4DL

Tot	Ion: 82	Resp:	3424
Ion	Ratio	Lower	Upper
82	100		
128	39.5	34.0	51.0
54	64.4	42.2	63.2#



Tgt	Ion:128	Resp:	1928072
Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.0	13.6
127	13.7	10.8	16.2

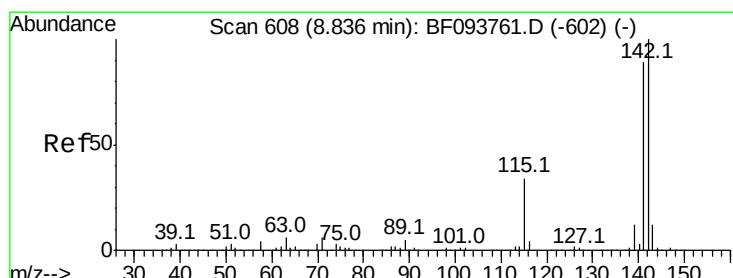
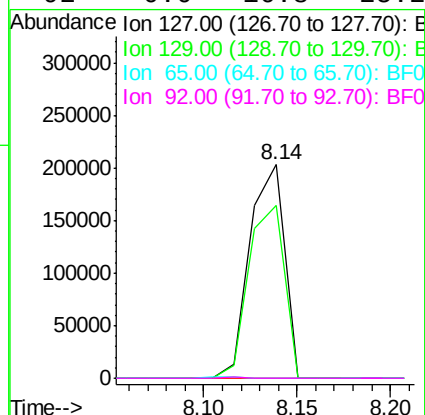
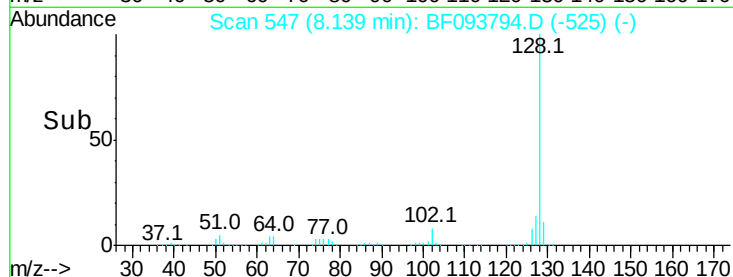
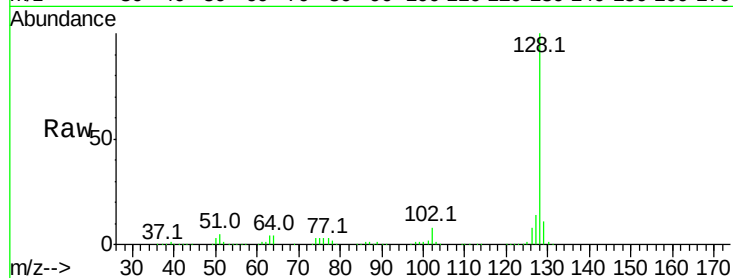




#33
4-Chloroaniline
Concen: 16.58 ng
RT: 8.14 min Scan# 547
Delta R.T. -0.05 min
Lab File: BF093794.D
Acq: 21 Mar 2017 13:24

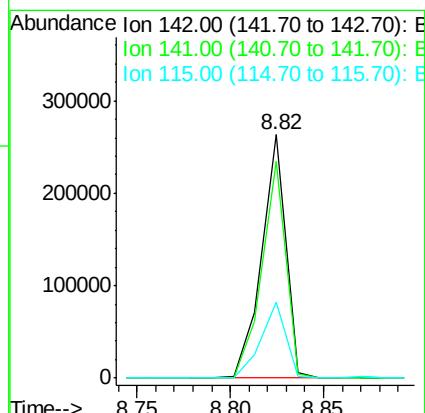
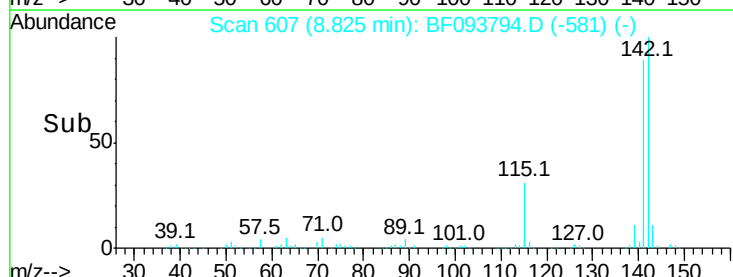
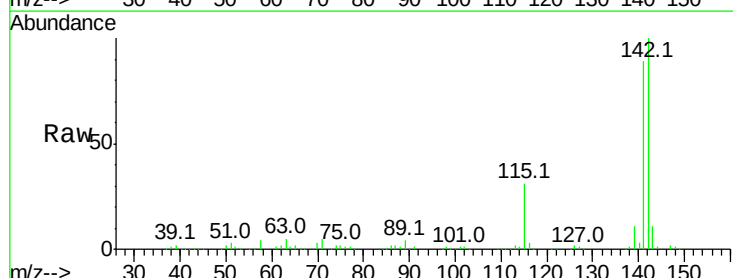
Instrument :
BNA_F
ClientSampleId :
CTMIX-4DL

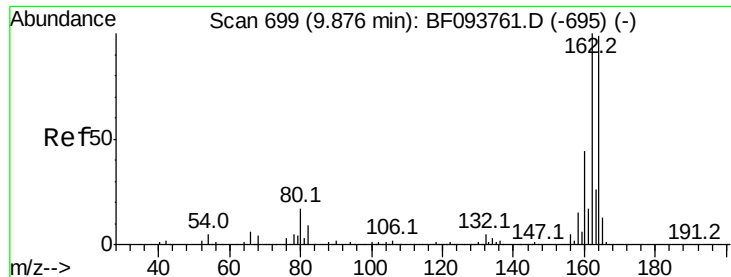
Tot Ion:	127	Resp:	261578
Ion	Ratio	Lower	Upper
127	100		
129	81.2	26.2	39.2#
65	0.0	27.8	41.8#
92	0.0	16.8	25.2#



#37
2-Methylnaphthalene
Concen: 9.77 ng
RT: 8.82 min Scan# 607
Delta R.T. -0.00 min
Lab File: BF093794.D
Acq: 21 Mar 2017 13:24

Tgt Ion:	142	Resp:	234051
Ion	Ratio	Lower	Upper
142	100		
141	88.8	71.3	106.9
115	31.0	27.1	40.7

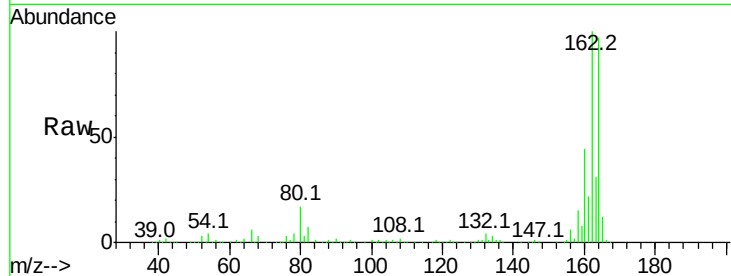




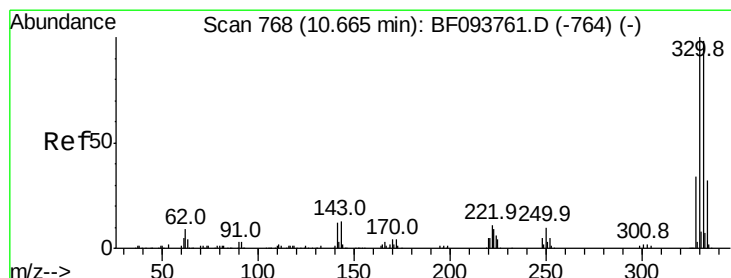
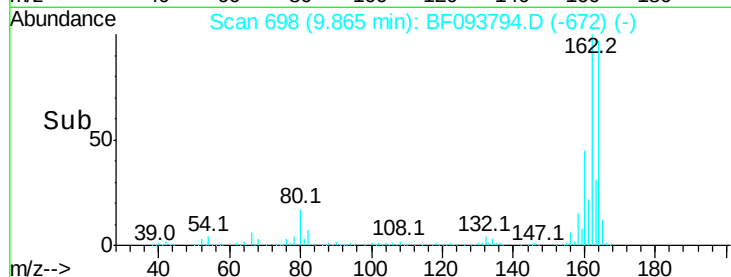
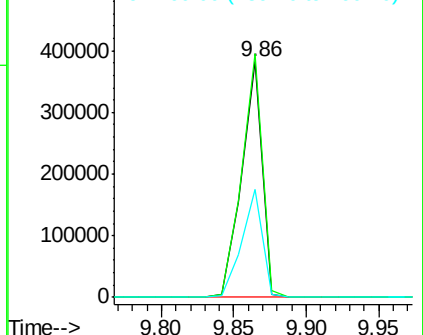
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.86 min Scan# 698
Delta R.T. -0.00 min
Lab File: BF093794.D
Acq: 21 Mar 2017 13:24

Instrument :
BNA_F
ClientSampleId :
CTMIX-4DL

Tot Ion:164 Resp: 375234
Ion Ratio Lower Upper
164 100
162 103.5 82.6 123.8
160 46.0 36.2 54.2

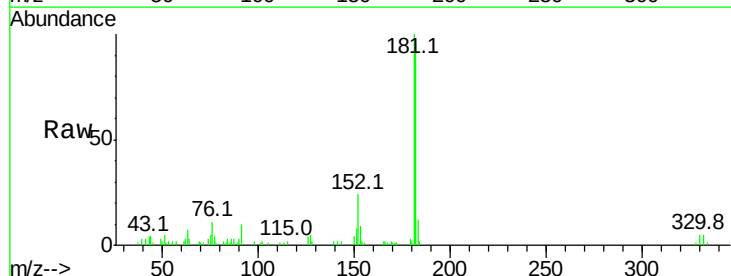


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

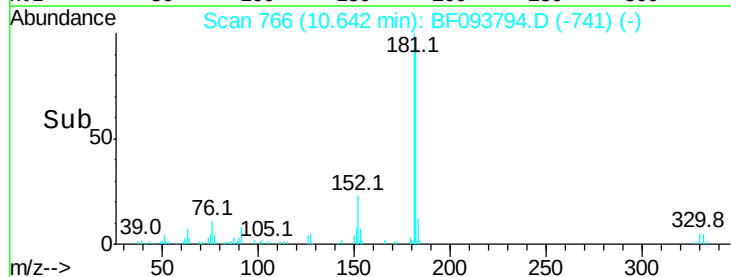
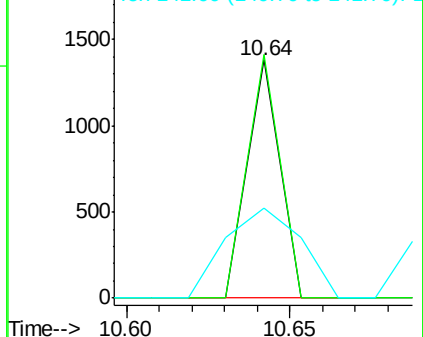


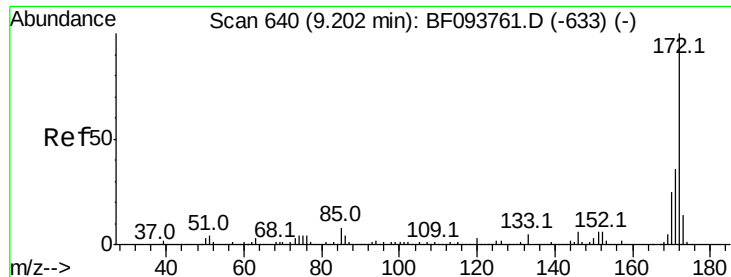
#41
2,4,6-Tribromophenol
Concen: 0.33 ng
RT: 10.64 min Scan# 766
Delta R.T. -0.01 min
Lab File: BF093794.D
Acq: 21 Mar 2017 13:24

Tgt Ion:330 Resp: 947
Ion Ratio Lower Upper
330 100
332 102.3 76.6 115.0
141 88.4 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

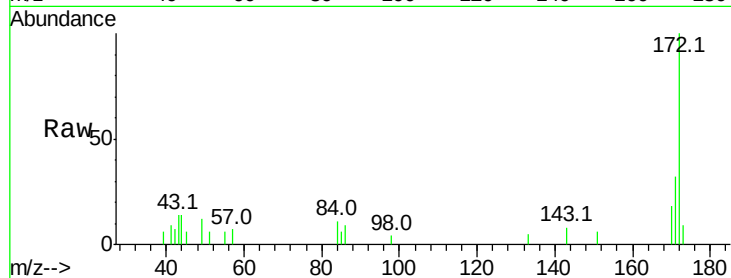




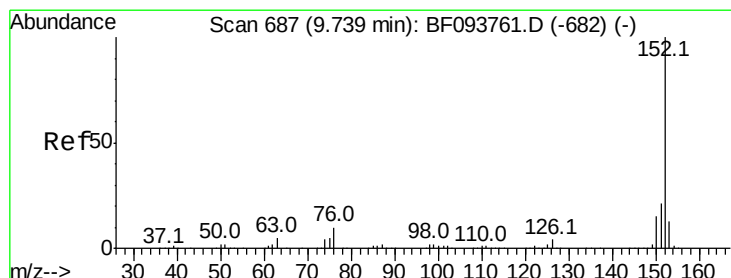
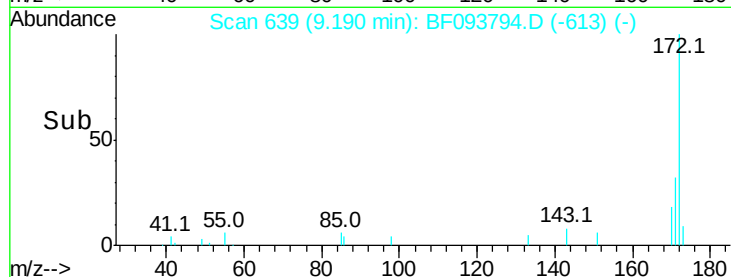
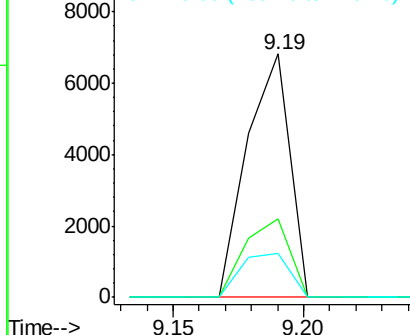
#44
2-Fluorobiphenyl
Concen: 0.35 ng
RT: 9.19 min Scan# 639
Delta R.T. -0.00 min
Lab File: BF093794.D
Acq: 21 Mar 2017 13:24

Instrument :
BNA_F
ClientSampleId :
CTMIX-4DL

Tot Ion:172 Resp: 7835
Ion Ratio Lower Upper
172 100
171 32.2 29.6 44.4
170 17.9 19.8 29.8#

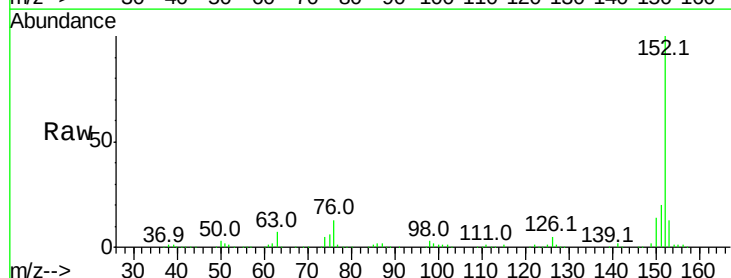


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

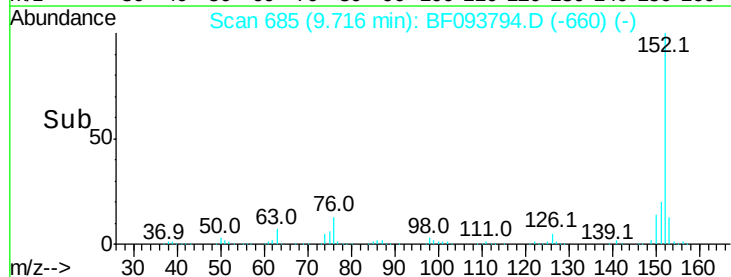
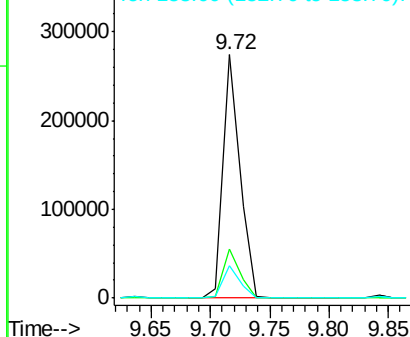


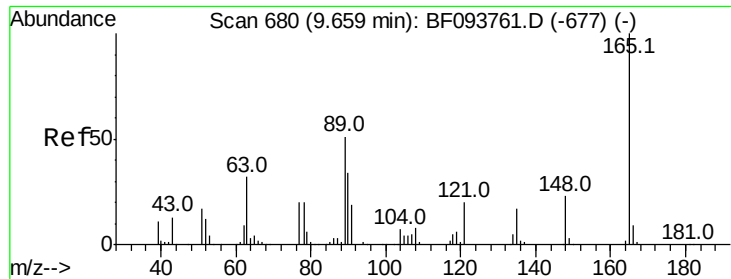
#48
Acenaphthylene
Concen: 7.07 ng
RT: 9.72 min Scan# 685
Delta R.T. -0.01 min
Lab File: BF093794.D
Acq: 21 Mar 2017 13:24

Tgt Ion:152 Resp: 268865
Ion Ratio Lower Upper
152 100
151 20.2 16.8 25.2
153 13.5 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

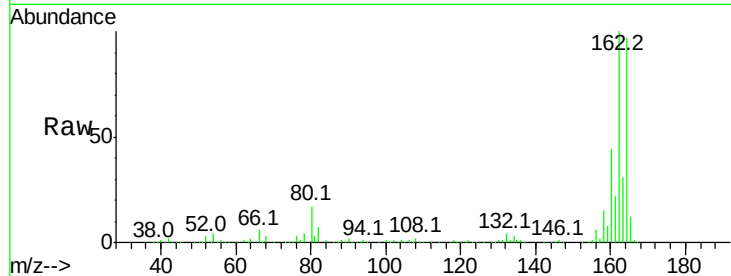




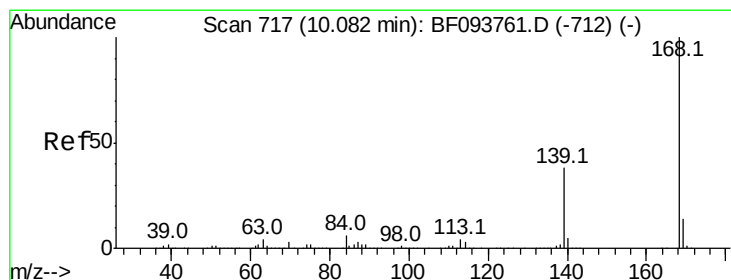
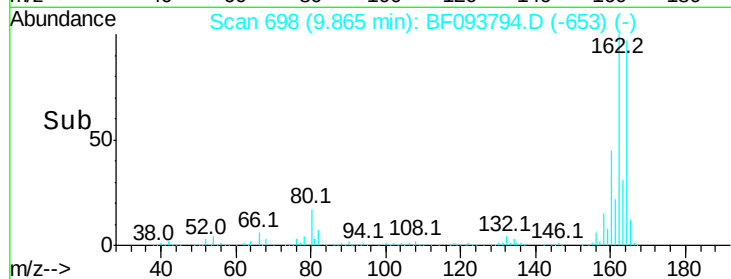
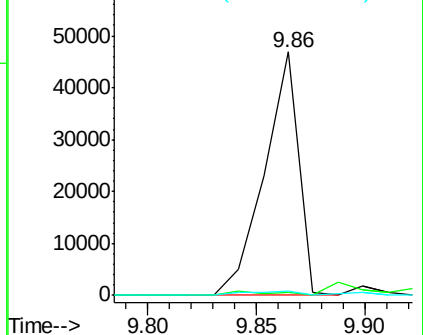
#50
 2,6-Dinitrotoluene
 Concen: 8.83 ng
 RT: 9.86 min Scan# 698
 Delta R.T. 0.22 min
 Lab File: BF093794.D
 Acq: 21 Mar 2017 13:24

Instrument :
 BNA_F
 ClientSampleId :
 CTMIX-4DL

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.1	34.3	51.5#
89	1.7	37.1	55.7#

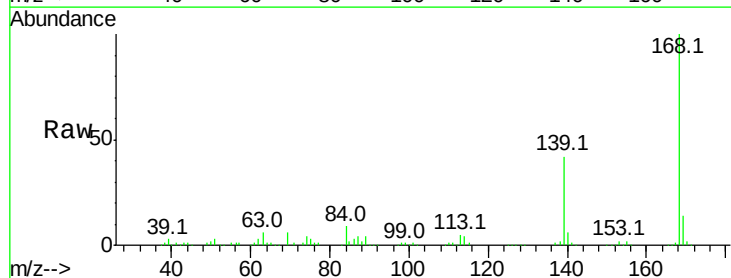


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF0
 Ion 89.00 (88.70 to 89.70): BF0

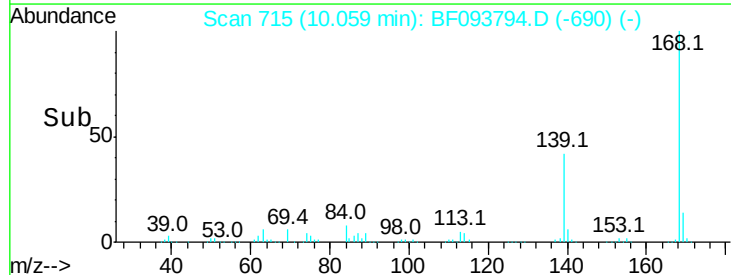
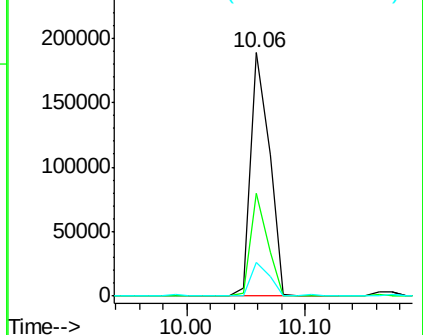


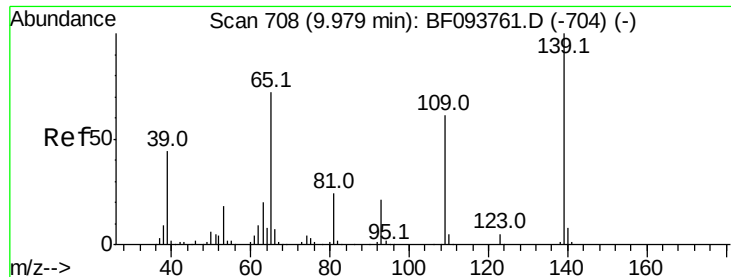
#54
 Dibenzofuran
 Concen: 6.89 ng
 RT: 10.06 min Scan# 715
 Delta R.T. -0.01 min
 Lab File: BF093794.D
 Acq: 21 Mar 2017 13:24

Tgt Ion	Ratio	Lower	Upper
168	100		
139	42.1	30.6	45.8
169	13.7	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





#55

4-Nitrophenol

Concen: 15.21 ng

RT: 10.06 min Scan# 715

Delta R.T. 0.09 min

Lab File: BF093794.D

Acq: 21 Mar 2017 13:24

Instrument :

BNA_F

ClientSampled :

CTMIX-4DL

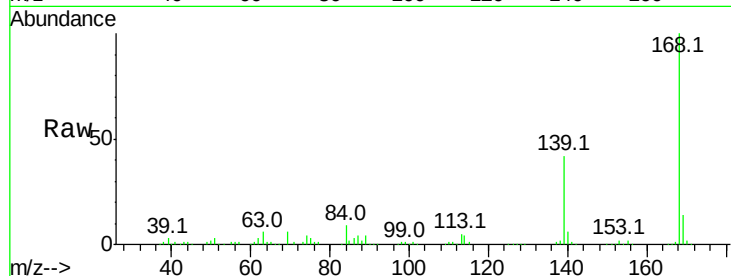
Tot Ion:139 Resp: 80383

Ion Ratio Lower Upper

139 100

109 1.0 34.1 74.1#

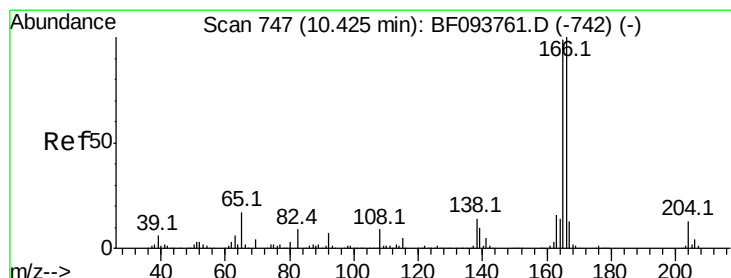
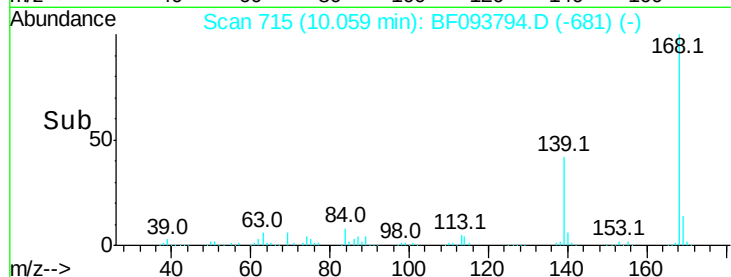
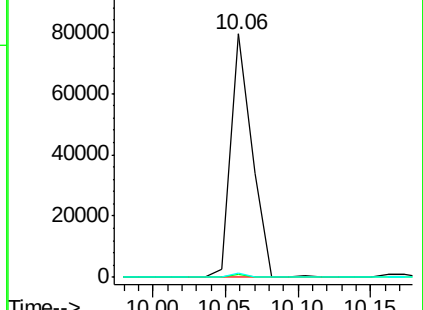
65 2.0 31.4 71.4#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0



#57

Fluorene

Concen: 10.21 ng

RT: 10.40 min Scan# 745

Delta R.T. -0.01 min

Lab File: BF093794.D

Acq: 21 Mar 2017 13:24

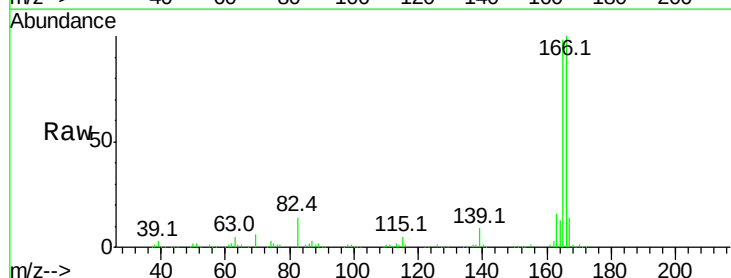
Tgt Ion:166 Resp: 239086

Ion Ratio Lower Upper

166 100

165 98.2 78.8 118.2

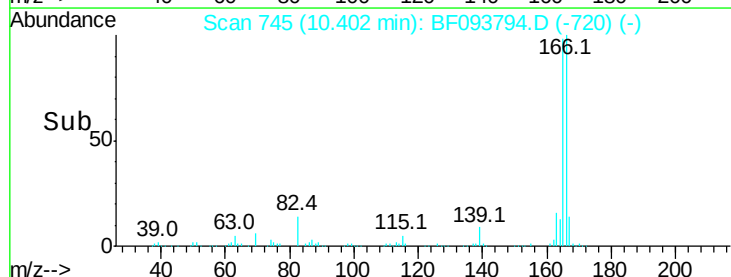
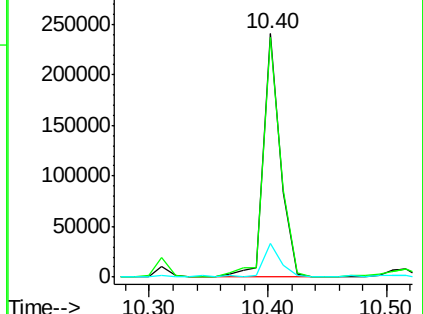
167 14.1 10.6 16.0

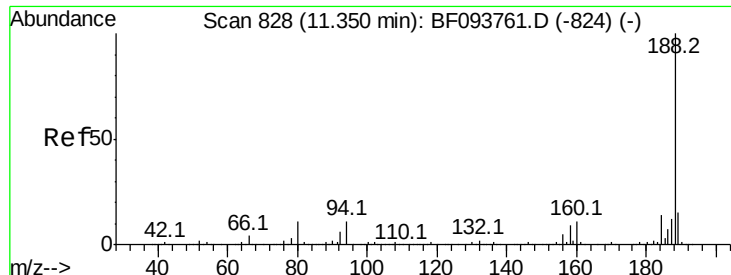


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

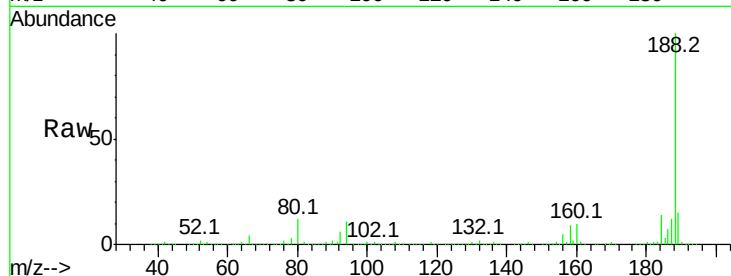




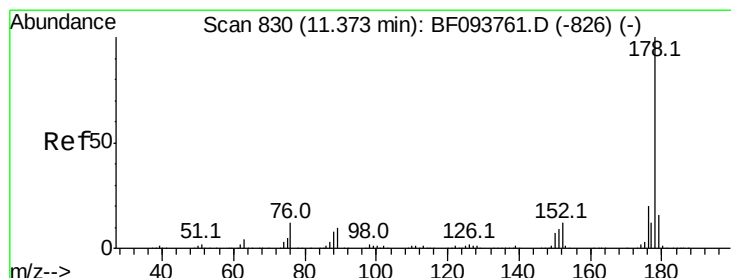
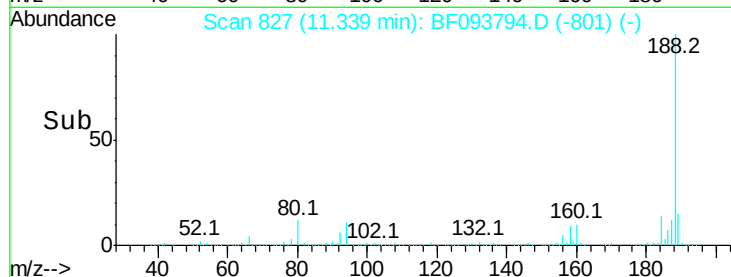
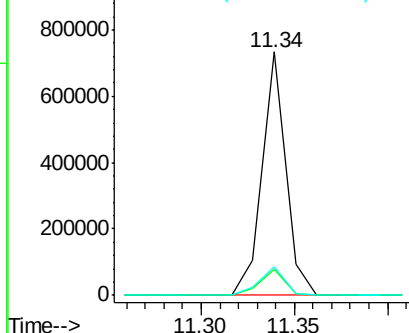
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.34 min Scan# 827
Delta R.T. -0.00 min
Lab File: BF093794.D
Acq: 21 Mar 2017 13:24

Instrument :
BNA_F
ClientSampleId :
CTMIX-4DL

Tot Ion:188 Resp: 643109
Ion Ratio Lower Upper
188 100
94 10.9 9.4 14.2
80 11.5 10.2 15.2

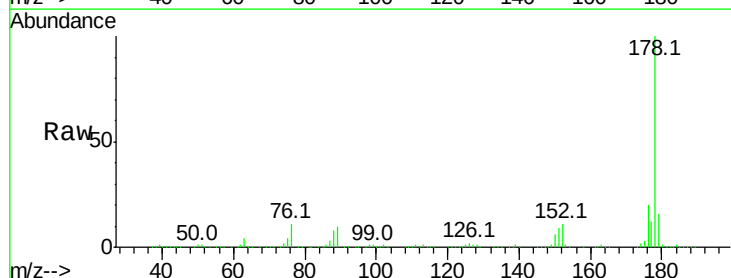


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

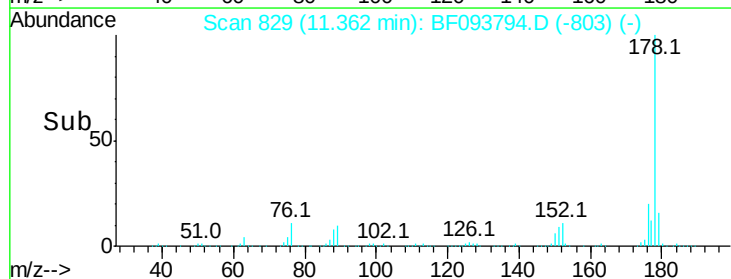
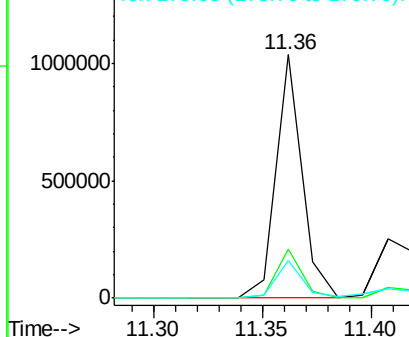


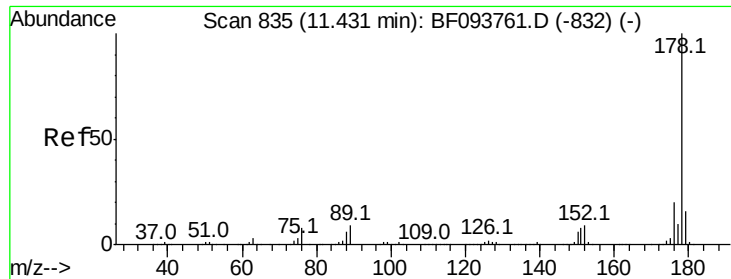
#70
Phenanthrene
Concen: 25.62 ng
RT: 11.36 min Scan# 829
Delta R.T. -0.00 min
Lab File: BF093794.D
Acq: 21 Mar 2017 13:24

Tgt Ion:178 Resp: 877526
Ion Ratio Lower Upper
178 100
176 19.9 16.2 24.4
179 15.6 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

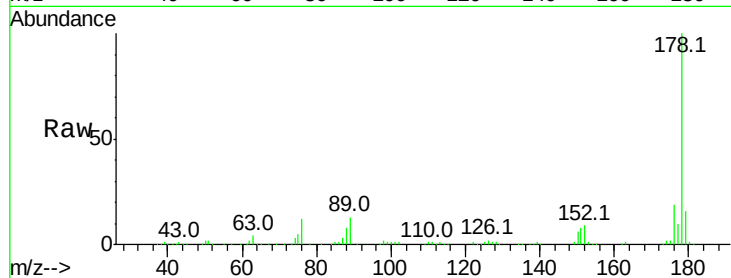




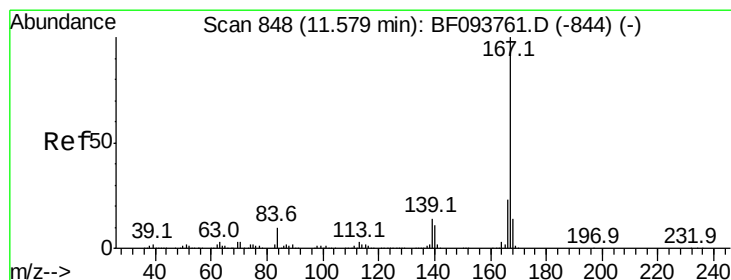
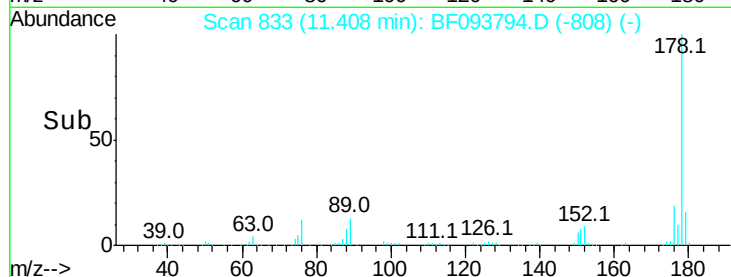
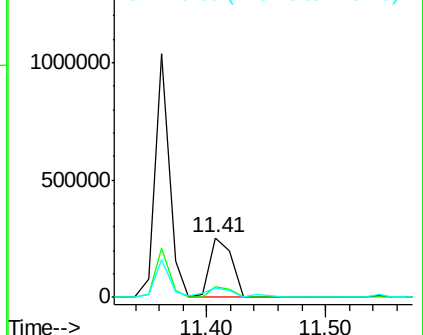
#71
 Anthracene
 Concen: 9.16 ng
 RT: 11.41 min Scan# 833
 Delta R.T. -0.01 min
 Lab File: BF093794.D
 Acq: 21 Mar 2017 13:24

Instrument :
 BNA_F
 ClientSampleId :
 CTMIX-4DL

Tot Ion:178 Resp: 323162
 Ion Ratio Lower Upper
 178 100
 176 18.7 15.8 23.8
 179 15.9 12.7 19.1

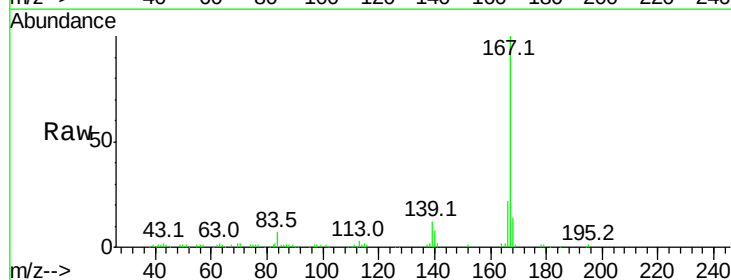


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

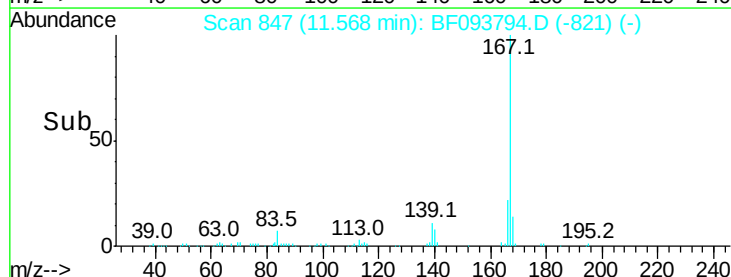
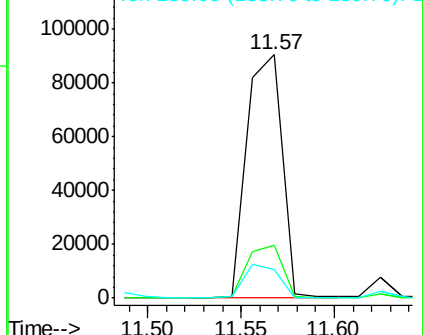


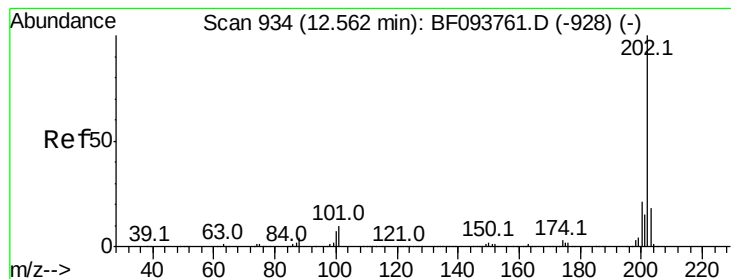
#72
 Carbazole
 Concen: 3.46 ng
 RT: 11.57 min Scan# 847
 Delta R.T. -0.00 min
 Lab File: BF093794.D
 Acq: 21 Mar 2017 13:24

Tgt Ion:167 Resp: 120782
 Ion Ratio Lower Upper
 167 100
 166 21.7 18.1 27.1
 139 11.7 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: 17.51 ng

RT: 12.55 min Scan# 933

Delta R.T. -0.00 min

Lab File: BF093794.D

Acq: 21 Mar 2017 13:24

Instrument :

BNA_F

ClientSampleId :

CTMIX-4DL

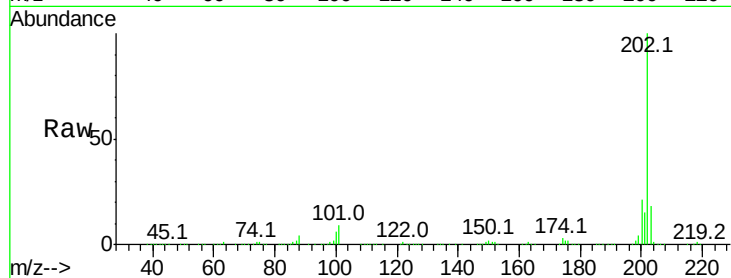
Tot Ion:202 Resp: 616341

Ion Ratio Lower Upper

202 100

101 8.6 0.0 33.2

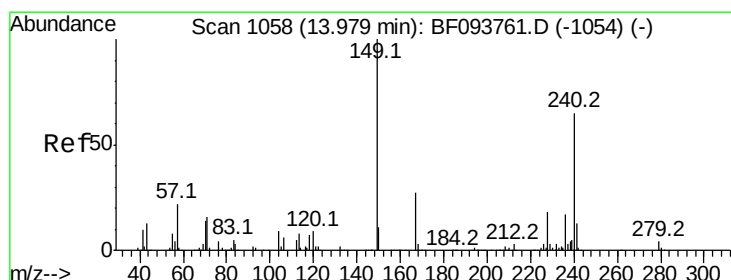
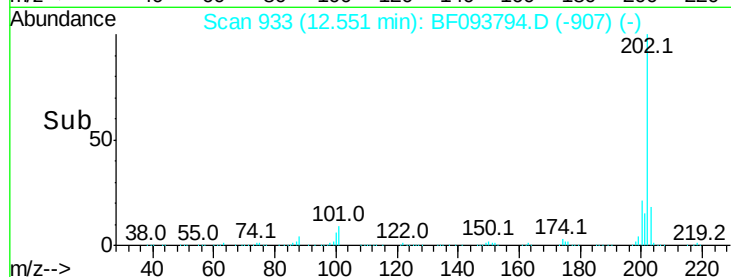
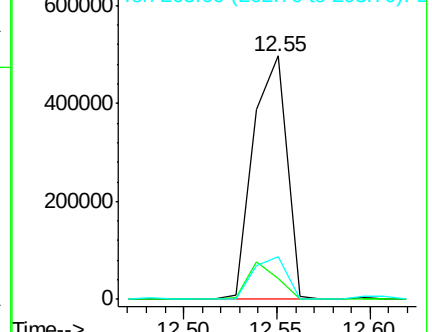
203 17.6 0.0 38.1



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: 13.97 min Scan# 1057

Delta R.T. -0.00 min

Lab File: BF093794.D

Acq: 21 Mar 2017 13:24

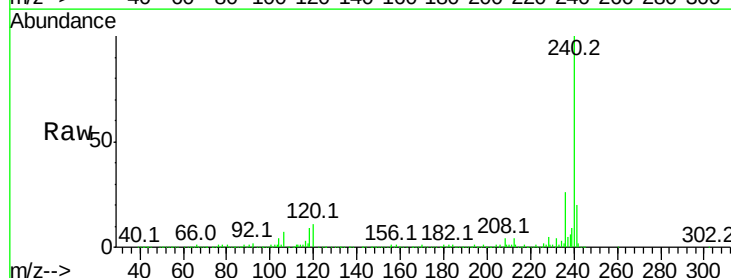
Tgt Ion:240 Resp: 475519

Ion Ratio Lower Upper

240 100

120 11.2 5.8 8.8#

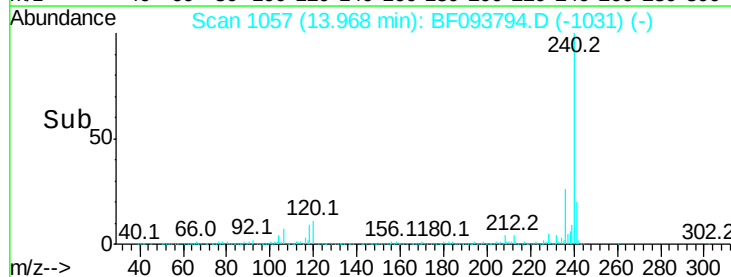
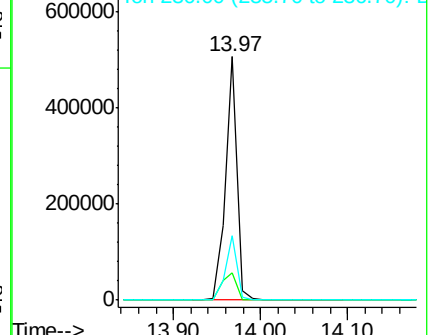
236 26.3 20.5 30.7

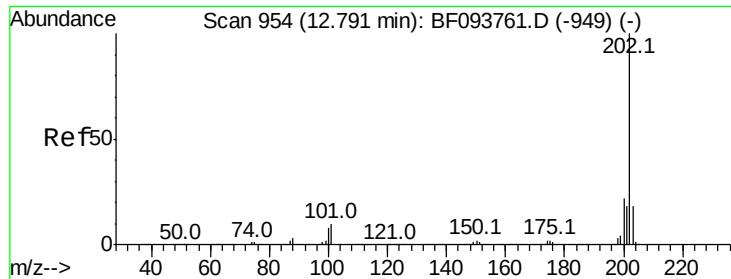


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 12.16 ng

RT: 12.77 min Scan# 952

Delta R.T. -0.01 min

Lab File: BF093794.D

Acq: 21 Mar 2017 13:24

Instrument :

BNA_F

ClientSampleId :

CTMIX-4DL

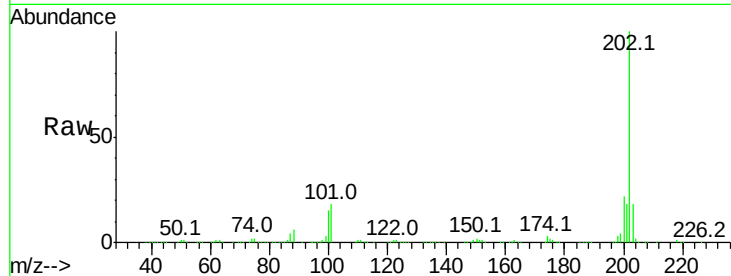
Tot Ion:202 Resp: 481292

Ion Ratio Lower Upper

202 100

200 22.0 17.6 26.4

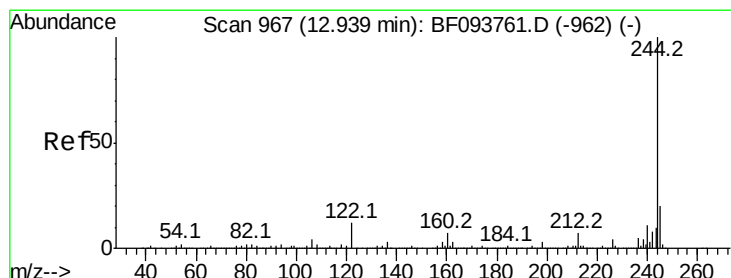
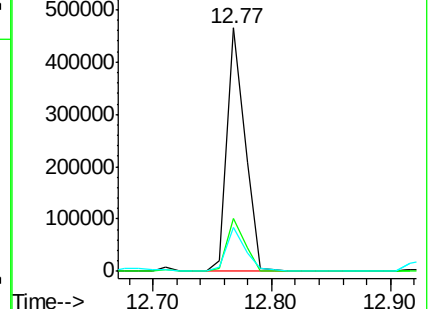
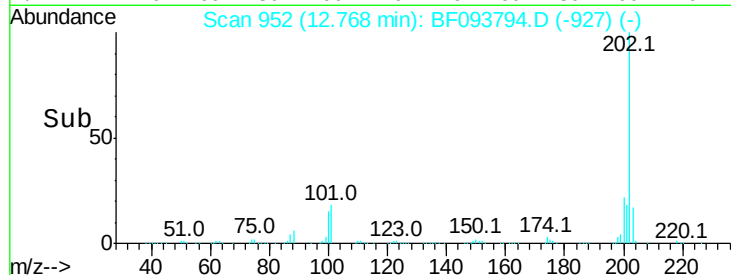
203 17.9 14.4 21.6



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: 0.30 ng

RT: 12.92 min Scan# 965

Delta R.T. -0.01 min

Lab File: BF093794.D

Acq: 21 Mar 2017 13:24

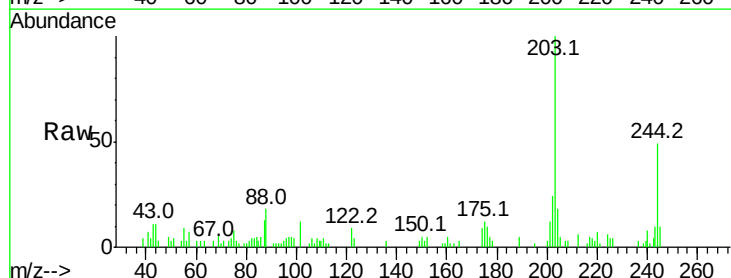
Tgt Ion:244 Resp: 7095

Ion Ratio Lower Upper

244 100

212 11.9 6.0 9.0#

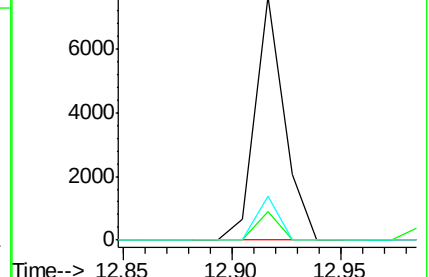
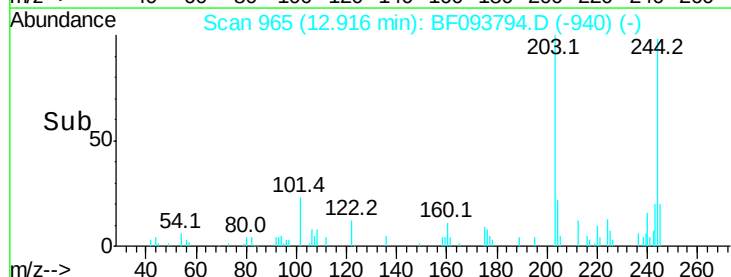
122 18.3 10.3 15.5#

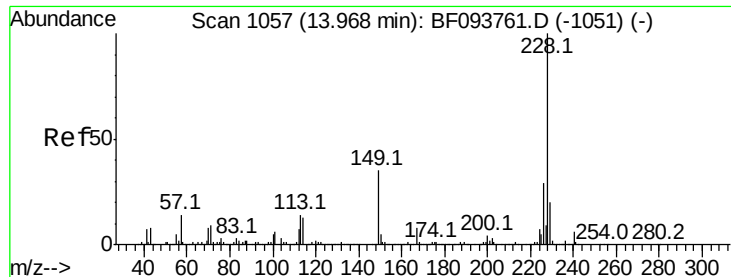


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 4.16 ng

RT: 13.99 min Scan# 1059

Delta R.T. 0.03 min

Lab File: BF093794.D

Acq: 21 Mar 2017 13:24

Instrument :

BNA_F

ClientSampleId :

CTMIX-4DL

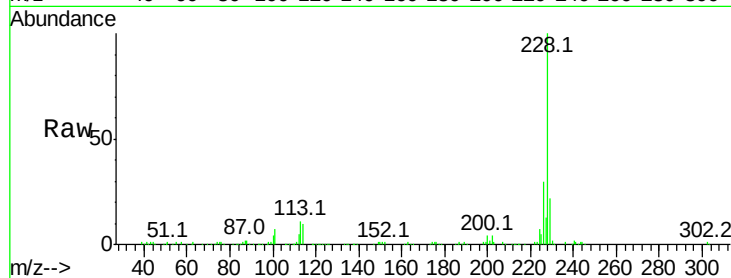
Tot Ion:228 Resp: 123980

Ion Ratio Lower Upper

228 100

226 30.2 22.6 33.8

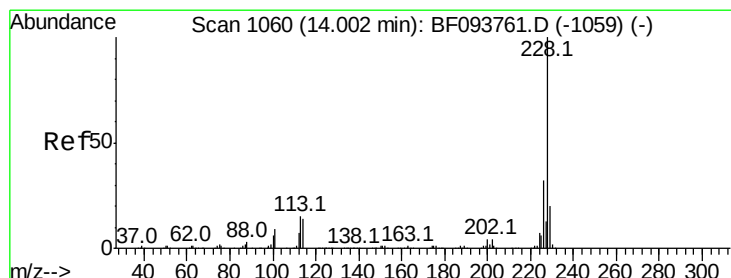
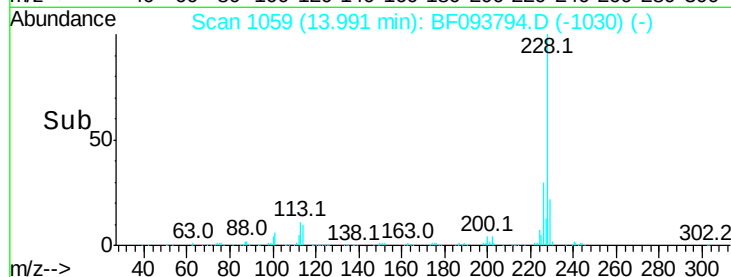
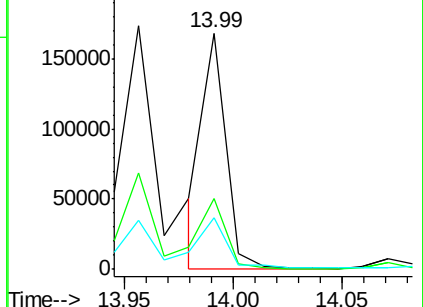
229 22.0 16.3 24.5



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: 4.17 ng

RT: 13.99 min Scan# 1059

Delta R.T. -0.01 min

Lab File: BF093794.D

Acq: 21 Mar 2017 13:24

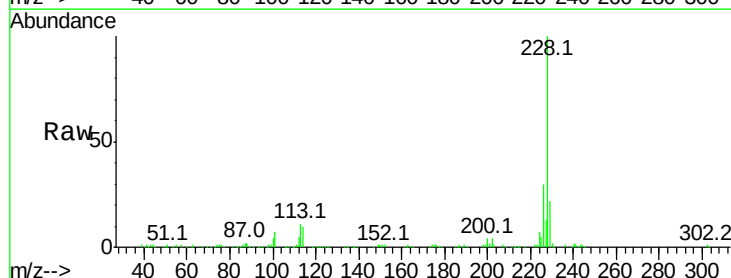
Tgt Ion:228 Resp: 123995

Ion Ratio Lower Upper

228 100

226 30.2 24.9 37.3

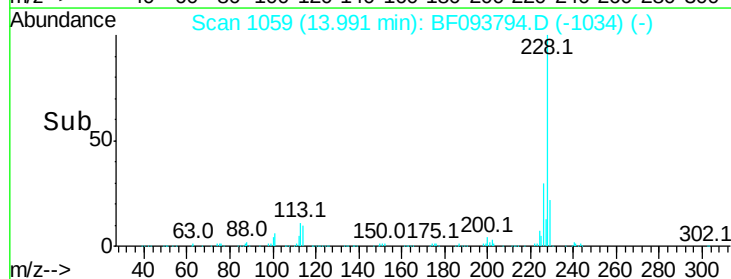
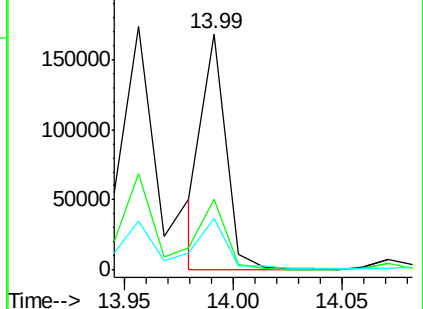
229 22.0 15.8 23.6

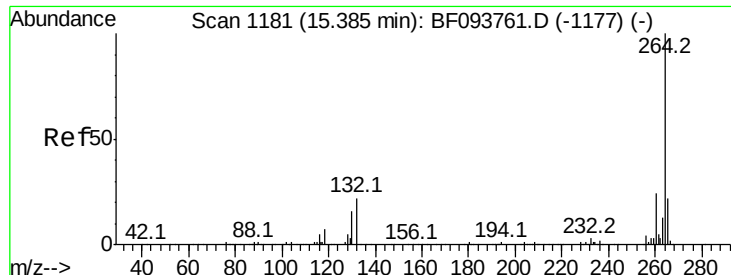


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

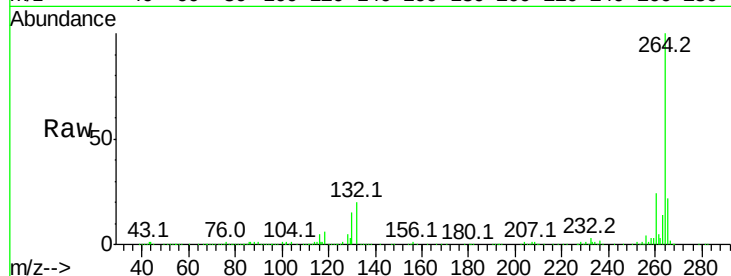




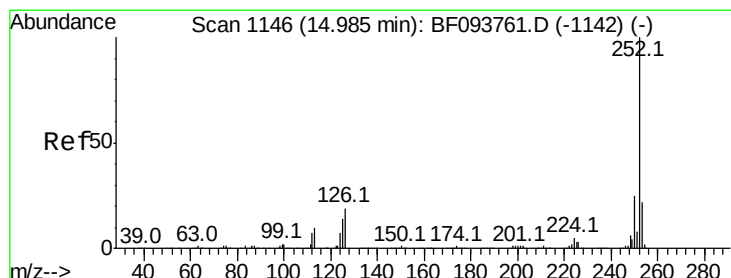
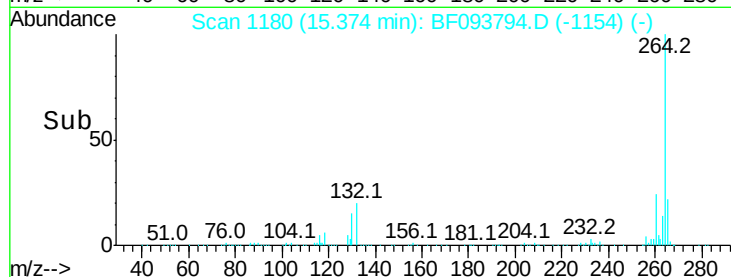
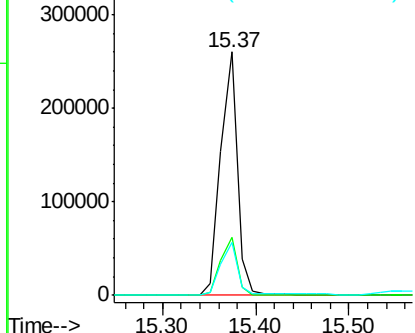
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.37 min Scan# 1180
Delta R.T. -0.00 min
Lab File: BF093794.D
Acq: 21 Mar 2017 13:24

Instrument :
BNA_F
ClientSampleId :
CTMIX-4DL

Tot Ion:264 Resp: 326112
Ion Ratio Lower Upper
264 100
260 24.0 19.5 29.3
265 21.9 17.2 25.8

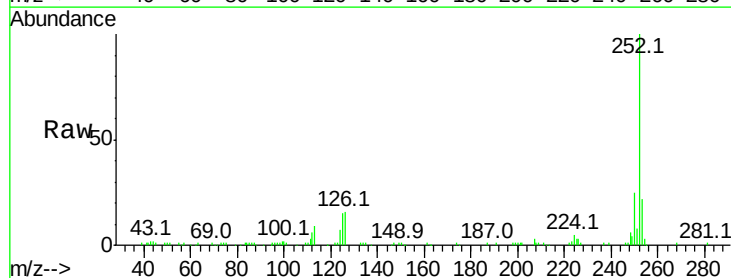


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

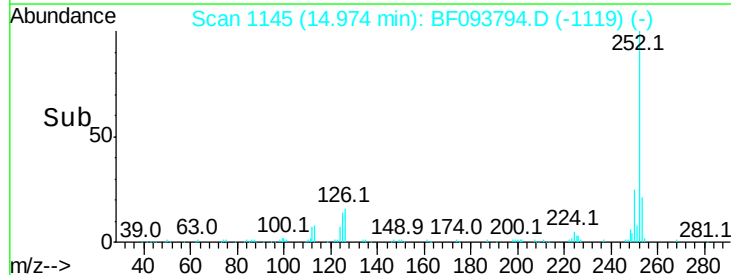
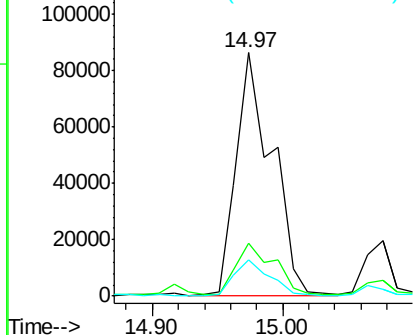


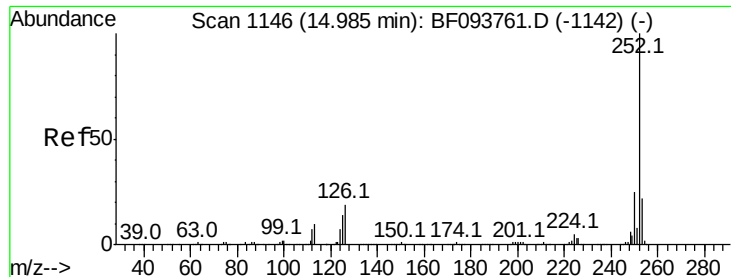
#87
Benzo(b)fluoranthene
Concen: 7.48 ng
RT: 14.97 min Scan# 1145
Delta R.T. -0.00 min
Lab File: BF093794.D
Acq: 21 Mar 2017 13:24

Tgt Ion:252 Resp: 164388
Ion Ratio Lower Upper
252 100
253 21.8 18.1 27.1
125 14.8 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: 10.13 ng

RT: 14.97 min Scan# 1145

Delta R.T. -0.03 min

Lab File: BF093794.D

Acq: 21 Mar 2017 13:24

Instrument :

BNA_F

ClientSampleId :

CTMIX-4DL

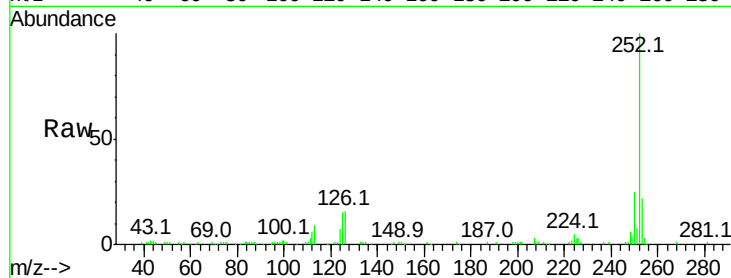
Tot Ion:252 Resp: 164388

Ion Ratio Lower Upper

252 100

253 21.8 18.4 27.6

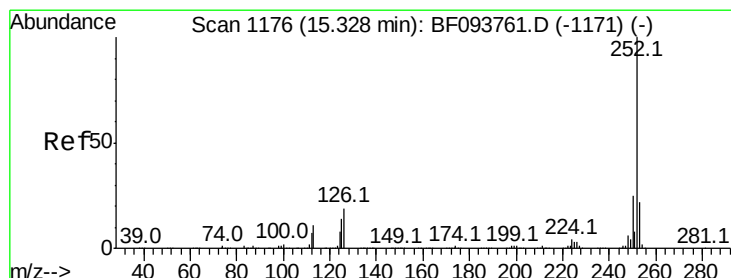
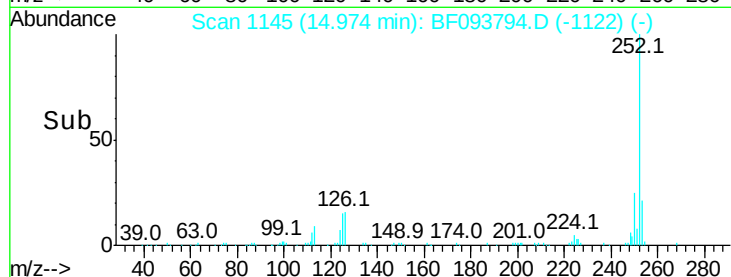
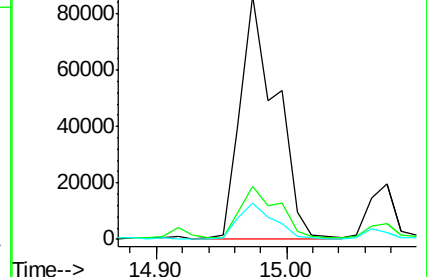
125 14.8 13.1 19.7



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: 5.55 ng

RT: 15.31 min Scan# 1174

Delta R.T. -0.01 min

Lab File: BF093794.D

Acq: 21 Mar 2017 13:24

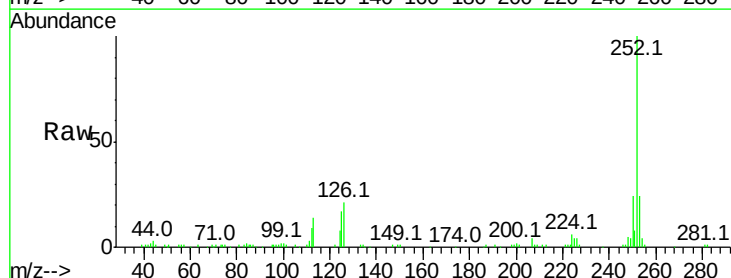
Tgt Ion:252 Resp: 98986

Ion Ratio Lower Upper

252 100

253 23.7 17.5 26.3

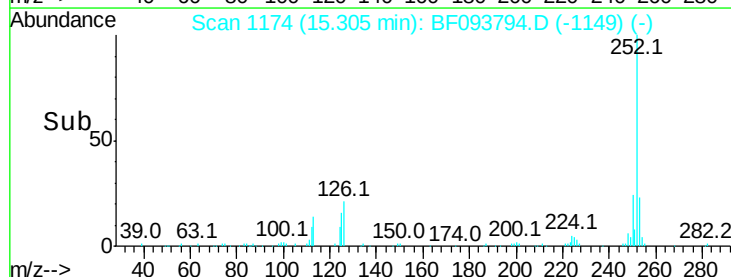
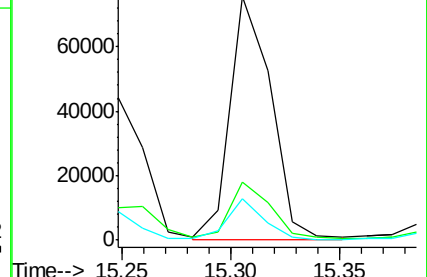
125 16.8 11.0 16.4#

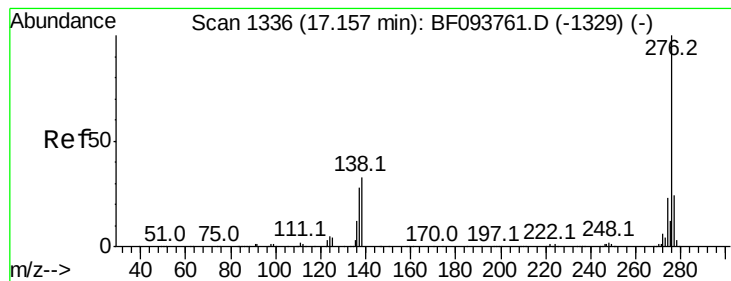


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

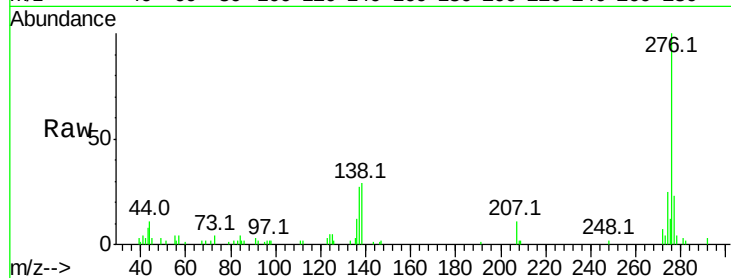




#91
 Benzo(a,h,i)perylene
 Concen: 3.31 ng
 RT: 17.12 min Scan# 1333
 Delta R.T. -0.02 min
 Lab File: BF093794.D
 Acq: 21 Mar 2017 13:24

Instrument :
 BNA_F
 ClientSampleId :
 CTMIX-4DL

Tot Ion: 276 Resp: 48634
 Ion Ratio Lower Upper
 276 100
 277 22.9 18.6 28.0
 138 28.9 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

