

Data Path : Z:\HPCHEM1\BNA F\DATA\BF070517\
 Data File : BF096503.D
 Acq On : 6 Jul 2017 1:02
 Operator : SJ/MA
 Sample : I3976-03 2X
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B9-4-6

Quant Time: Jul 06 04:37:49 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF070117.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jul 05 13:27:10 2017
 Response via : Initial Calibration

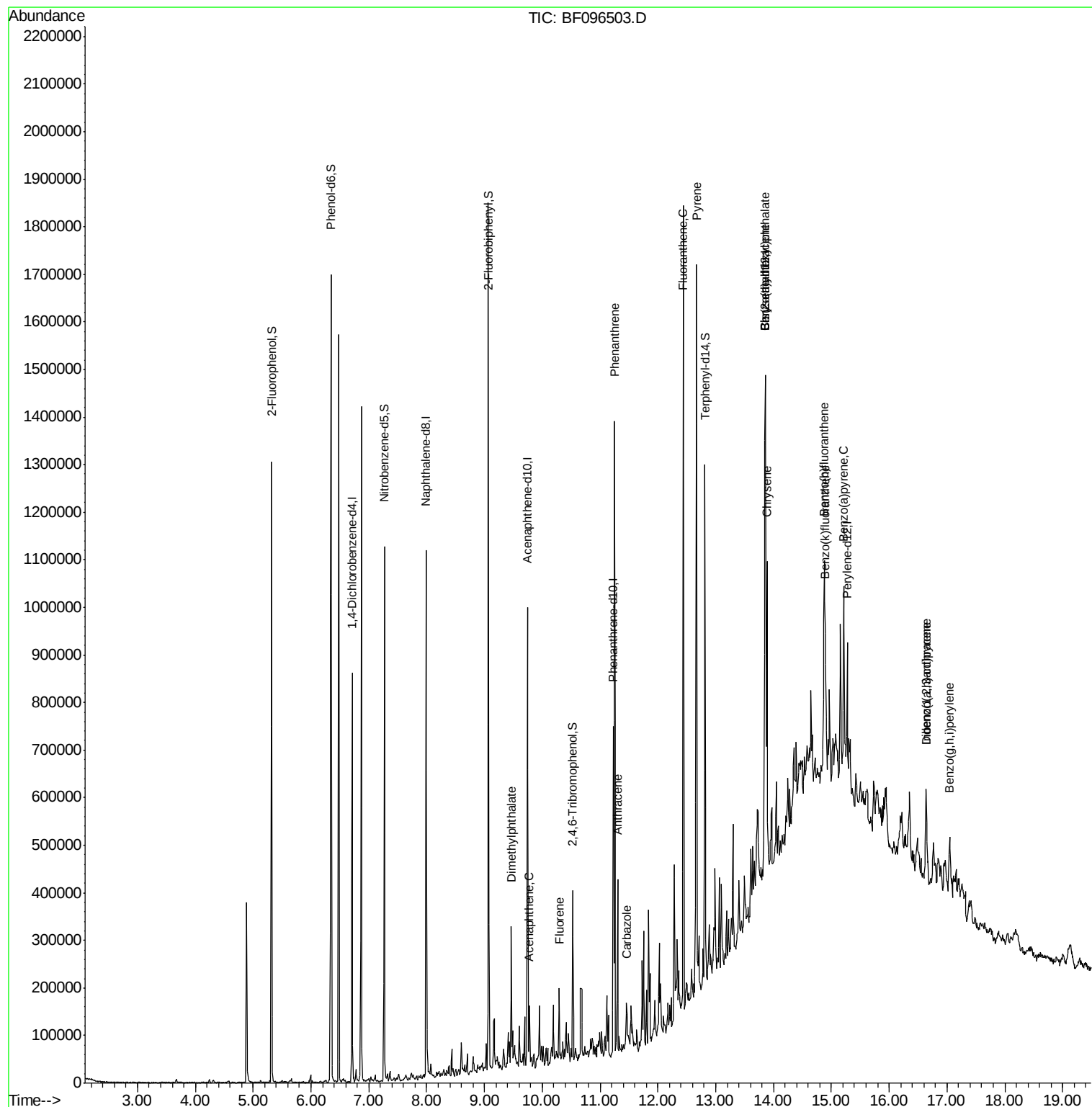
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.71	152	109809	20.00	ng	0.00
21) Naphthalene-d8	7.99	136	433246	20.00	ng	0.00
38) Acenaphthene-d10	9.75	164	168577	20.00	ng	0.00
63) Phenanthrene-d10	11.23	188	232365	20.00	ng	0.00
75) Chrysene-d12	13.86	240	204372	20.00	ng	0.00
86) Perylene-d12	15.27	264	142860	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	328548	44.16	ng	0.00
7) Phenol-d6	6.35	99	514474	56.25	ng	-0.01
23) Nitrobenzene-d5	7.27	82	290954	40.36	ng	-0.01
41) 2,4,6-Tribromophenol	10.53	330	30265	22.98	ng	-0.01
44) 2-Fluorobiphenyl	9.07	172	561628	56.96	ng	-0.01
78) Terphenyl-d14	12.81	244	340856	35.64	ng	0.00
Target Compounds						Qvalue
49) Dimethylphthalate	9.46	163	94635	7.52	ng	98
51) Acenaphthene	9.77	154	24228	2.30	ng	97
57) Fluorene	10.29	166	34678	3.54	ng	95
70) Phenanthrene	11.25	178	441426	35.14	ng	99
71) Anthracene	11.30	178	136544	10.67	ng	99
72) Carbazole	11.46	167	32145	2.50	ng	98
74) Fluoranthene	12.44	202	666465	54.12	ng	99
77) Pyrene	12.67	202	631633	38.50	ng	99
80) Benzo(a)anthracene	13.85	228	300577	25.40	ng	97
82) Chrysene	13.89	228	250780	20.23	ng	97
83) Bis(2-ethylhexyl)phthalate	13.86	149	20897	2.25	ng	# 92
85) Indeno(1,2,3-cd)pyrene	16.64	276	88767	9.07	ng	96
87) Benzo(b)fluoranthene	14.87	252	246320m	27.52	ng	
88) Benzo(k)fluoranthene	14.90	252	74899m	9.35	ng	
89) Benzo(a)pyrene	15.22	252	170683	21.36	ng	# 91
90) Dibenzo(a,h)anthracene	16.64	278	21523	3.42	ng	# 75
91) Benzo(a,h,i)perylene	17.04	276	84542	12.98	ng	98

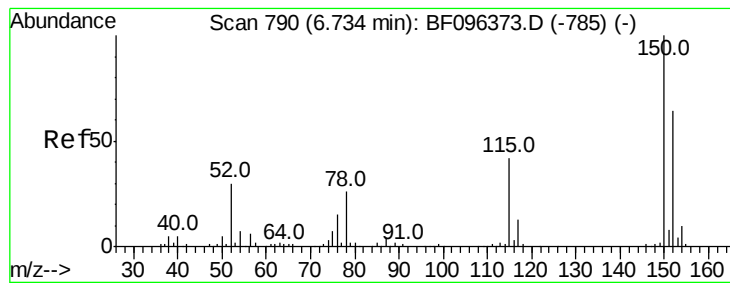
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.71 min Scan# 786

Delta R.T. -0.01 min

Lab File: BF096503.D

Acq: 6 Jul 2017 1:02

Instrument :

BNA_F

ClientSampled :

B9-4-6

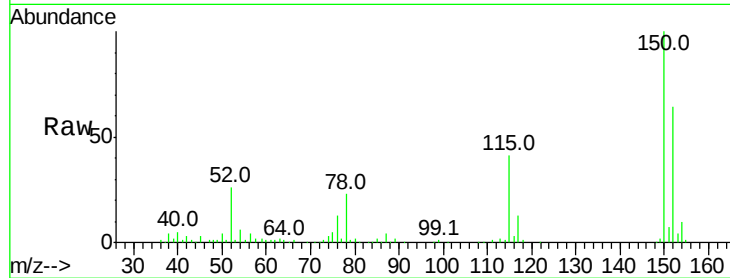
Tot Ion:152 Resp: 109809

Ion Ratio Lower Upper

152 100

150 155.2 126.2 189.2

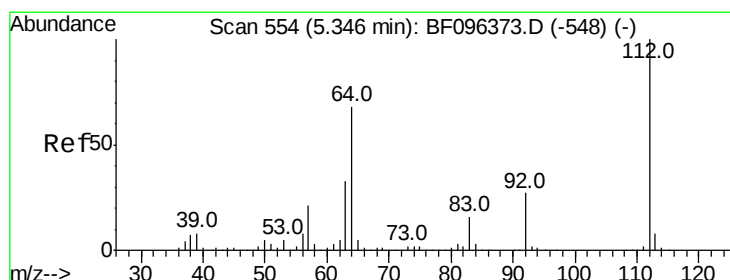
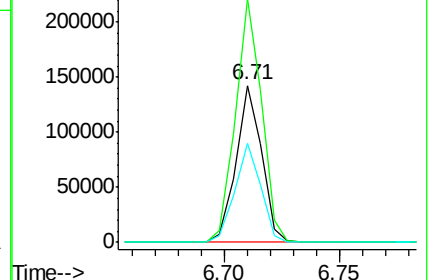
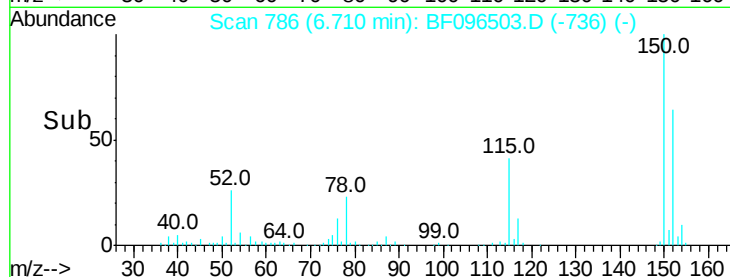
115 63.4 52.2 78.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 44.16 ng

RT: 5.32 min Scan# 549

Delta R.T. -0.01 min

Lab File: BF096503.D

Acq: 6 Jul 2017 1:02

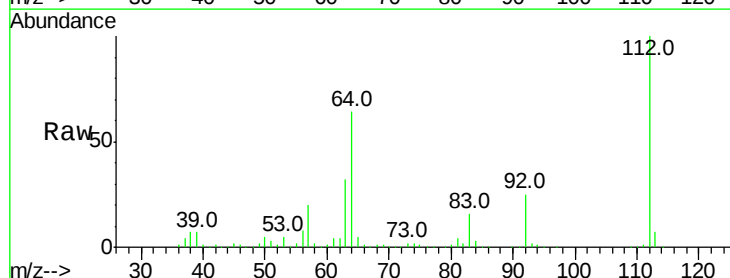
Tgt Ion:112 Resp: 328548

Ion Ratio Lower Upper

112 100

64 63.9 46.0 69.0

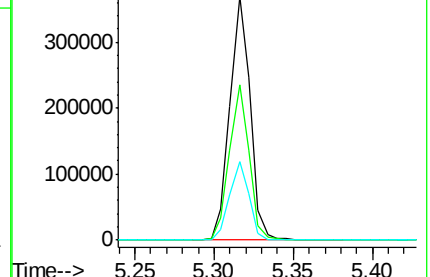
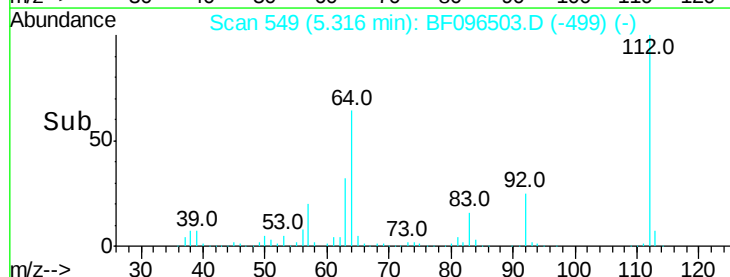
63 32.4 23.4 35.0



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: 56.25 ng

RT: 6.35 min Scan# 724

Delta R.T. -0.01 min

Lab File: BF096503.D

Acq: 6 Jul 2017 1:02

Instrument :

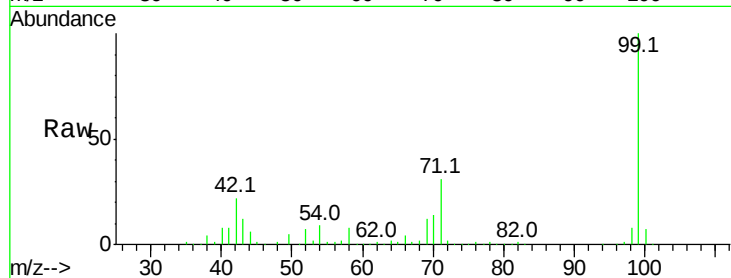
BNA_F

ClientSampleId :

B9-4-6

Tot Ion: 99 Resp: 514474

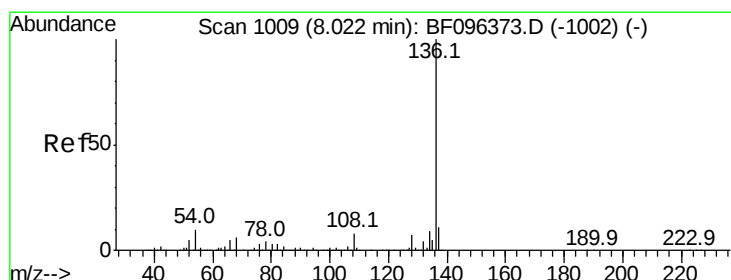
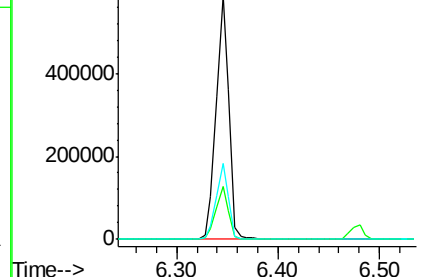
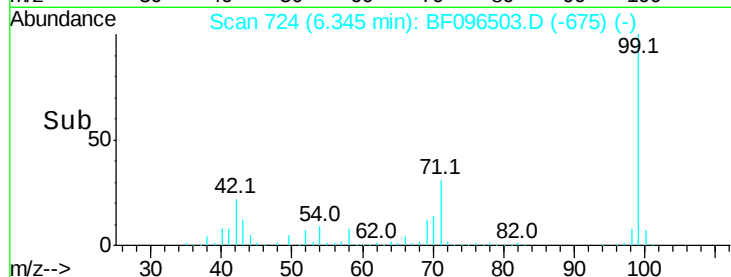
Ion	Ratio	Lower	Upper
99	100		
42	21.8	13.5	20.3#
71	31.4	24.5	36.7



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: 7.99 min Scan# 1004

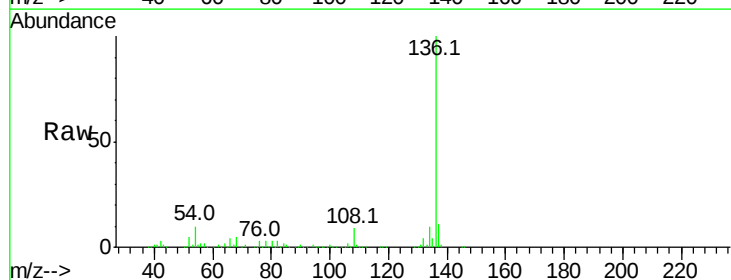
Delta R.T. -0.01 min

Lab File: BF096503.D

Acq: 6 Jul 2017 1:02

Tgt Ion: 136 Resp: 433246

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.5	12.7
54	10.5	4.9	7.3#
68	5.2	4.1	6.1

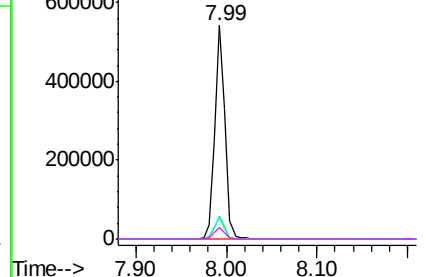
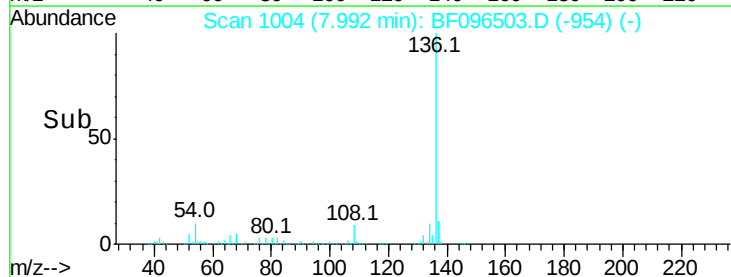


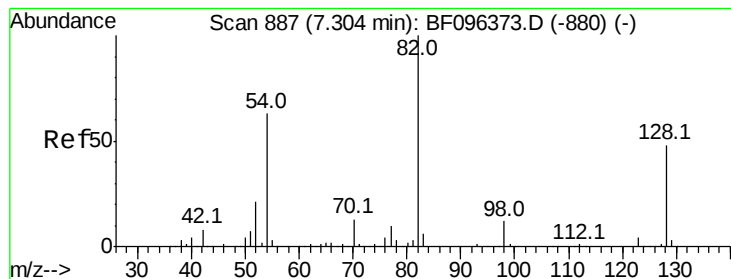
Abundance Ion 136.00 (135.70 to 136.70): E

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: 40.36 ng

RT: 7.27 min Scan# 881

Delta R.T. -0.01 min

Lab File: BF096503.D

Acq: 6 Jul 2017 1:02

Instrument :

BNA_F

ClientSampleId :

B9-4-6

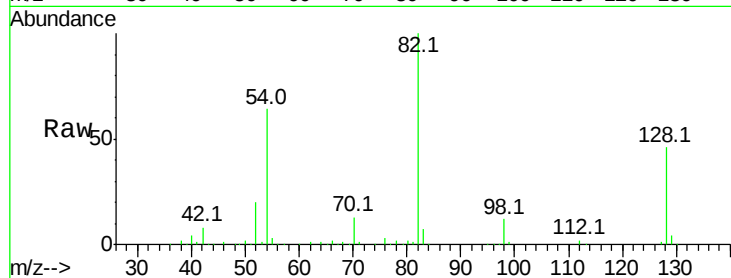
Tot Ion: 82 Resp: 290954

Ion Ratio Lower Upper

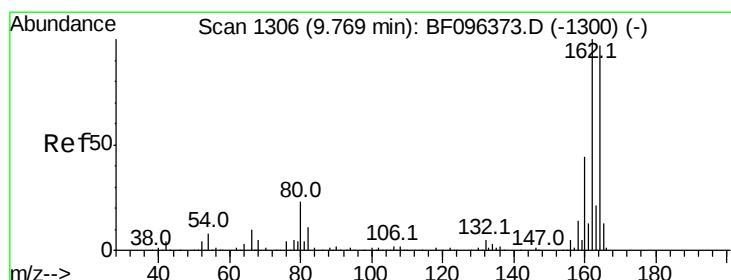
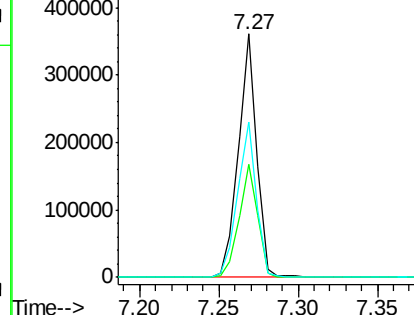
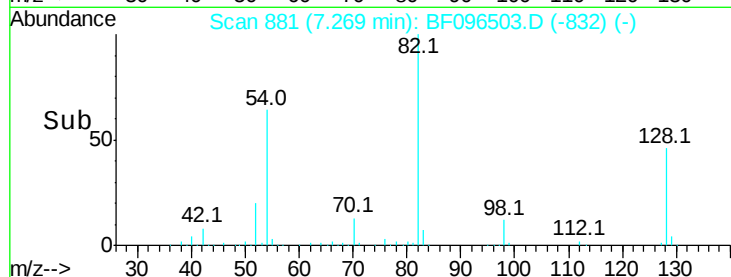
82 100

128 46.3 34.0 51.0

54 63.6 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



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.75 min Scan# 1302

Delta R.T. -0.01 min

Lab File: BF096503.D

Acq: 6 Jul 2017 1:02

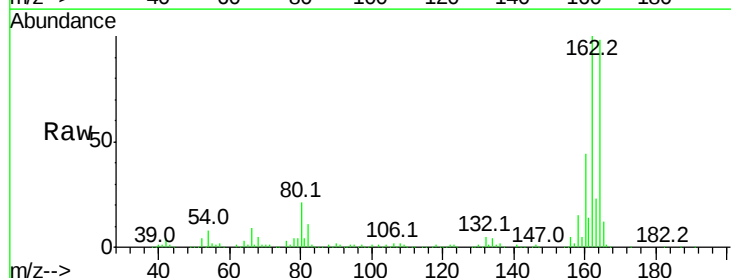
Tgt Ion:164 Resp: 168577

Ion Ratio Lower Upper

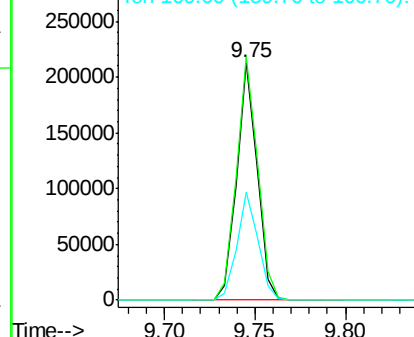
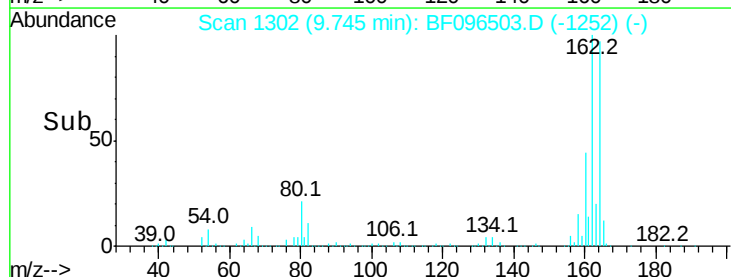
164 100

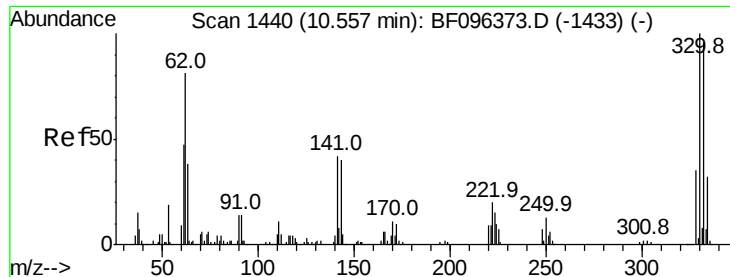
162 102.6 82.6 123.8

160 45.5 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

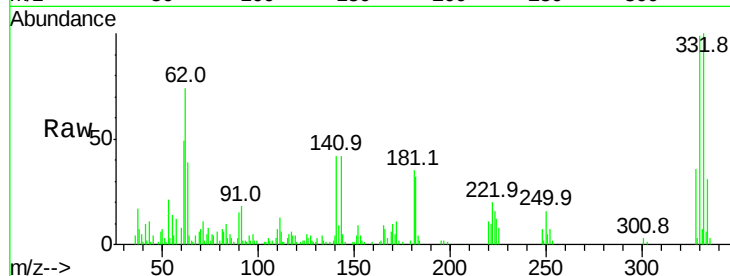




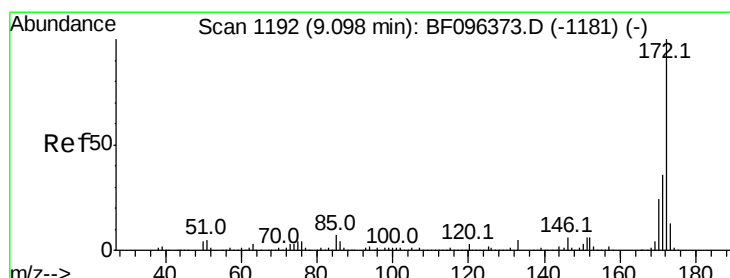
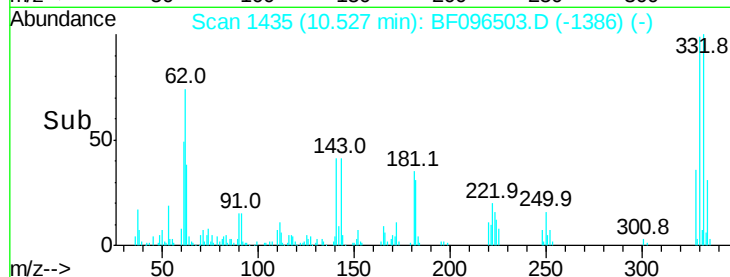
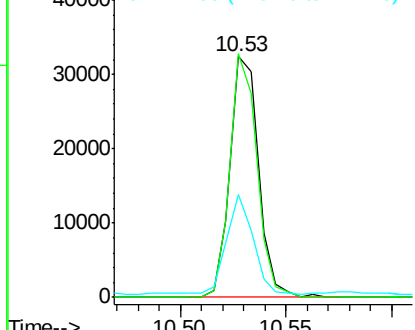
#41
 2,4,6-Tribromophenol
 Concen: 22.98 ng
 RT: 10.53 min Scan# 1435
 Delta R.T. -0.01 min
 Lab File: BF096503.D
 Acq: 6 Jul 2017 1:02

Instrument :
 BNA_F
 ClientSampleId :
 B9-4-6

Tot Ion:330 Resp: 30265
 Ion Ratio Lower Upper
 330 100
 332 94.9 76.6 115.0
 141 38.6 31.4 47.2

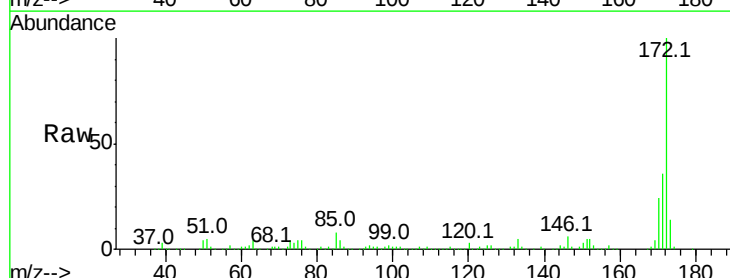


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

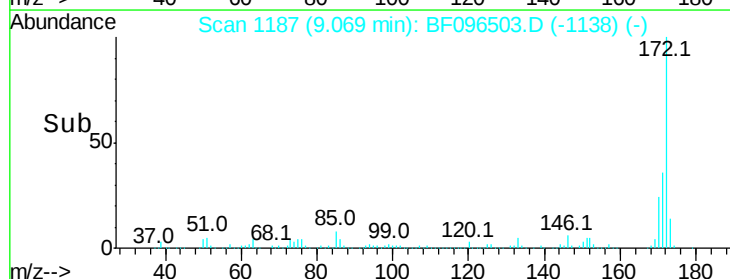
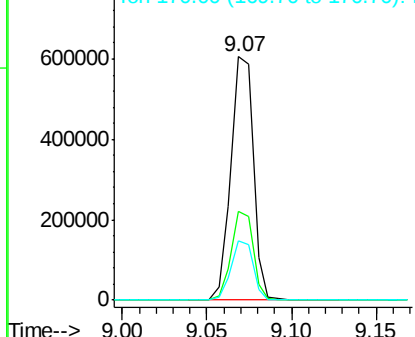


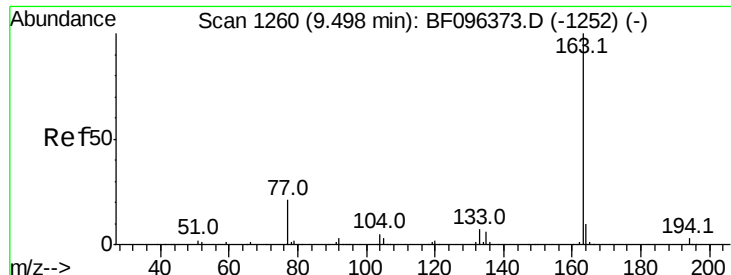
#44
 2-Fluorobiphenyl
 Concen: 56.96 ng
 RT: 9.07 min Scan# 1187
 Delta R.T. -0.01 min
 Lab File: BF096503.D
 Acq: 6 Jul 2017 1:02

Tgt Ion:172 Resp: 561628
 Ion Ratio Lower Upper
 172 100
 171 36.4 29.6 44.4
 170 24.5 19.8 29.8



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





#49

Dimethylphthalate

Concen: 7.52 ng

RT: 9.46 min Scan# 1254

Delta R.T. -0.02 min

Lab File: BF096503.D

Acq: 6 Jul 2017 1:02

Instrument :

BNA_F

ClientSampleId :

B9-4-6

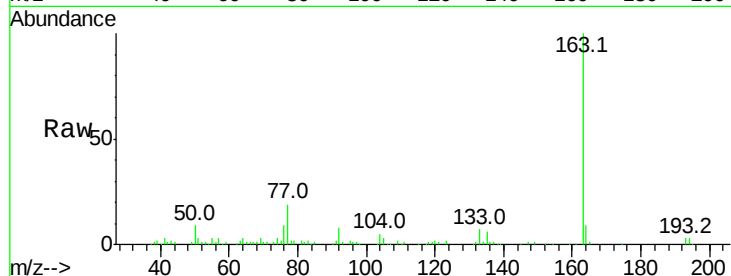
Tot Ion:163 Resp: 94635

Ion Ratio Lower Upper

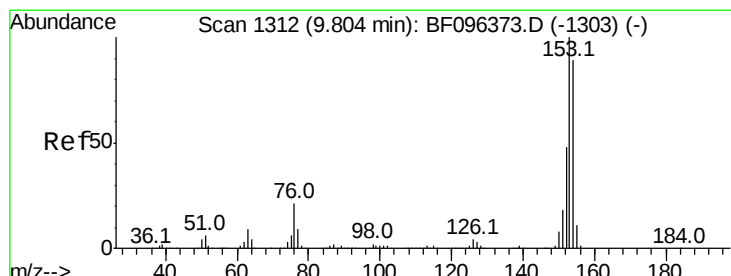
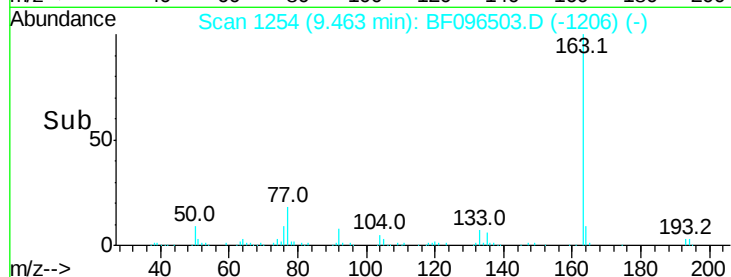
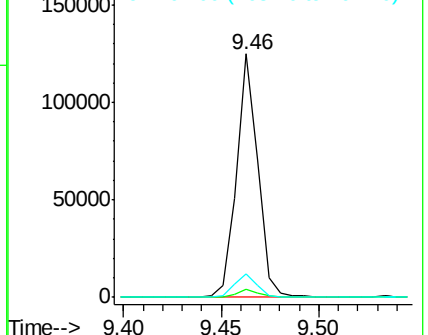
163 100

194 3.4 2.6 4.0

164 9.4 8.4 12.6



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E



#51

Acenaphthene

Concen: 2.30 ng

RT: 9.77 min Scan# 1307

Delta R.T. -0.01 min

Lab File: BF096503.D

Acq: 6 Jul 2017 1:02

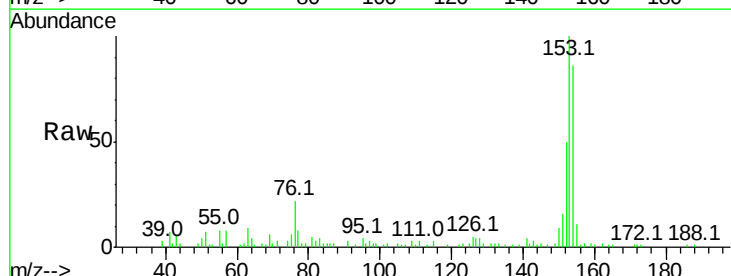
Tgt Ion:154 Resp: 24228

Ion Ratio Lower Upper

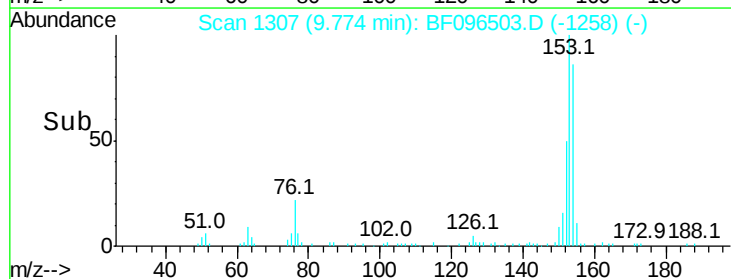
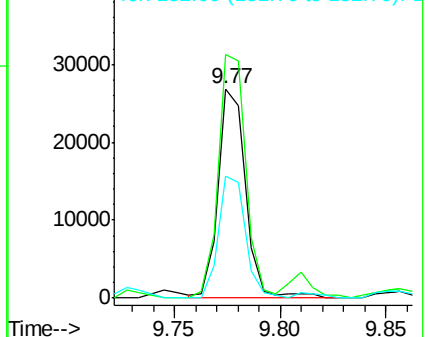
154 100

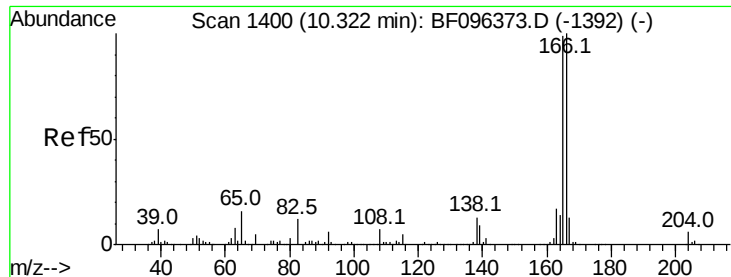
153 116.2 90.5 135.7

152 58.0 43.6 65.4



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E

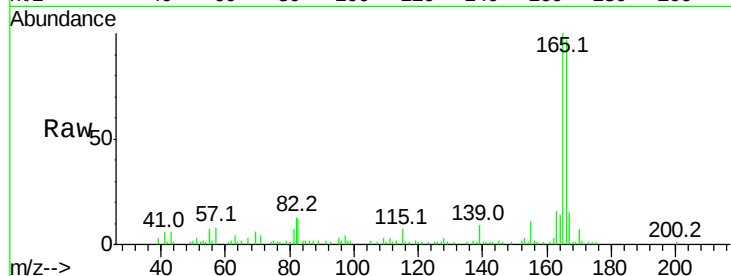




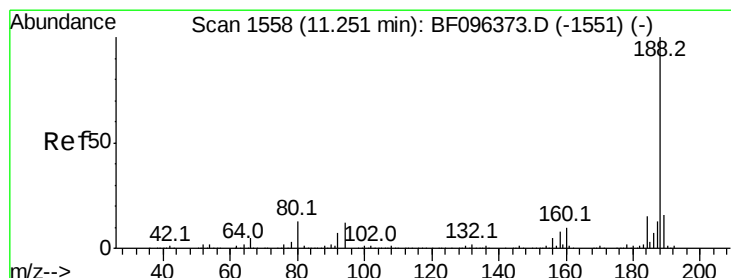
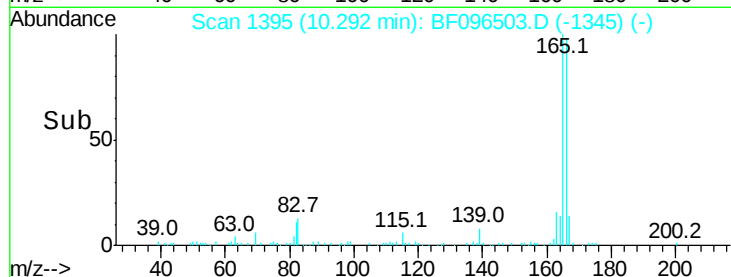
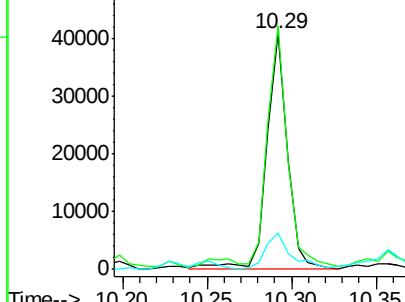
#57
Fluorene
 Concen: 3.54 ng
 RT: 10.29 min Scan# 1395
 Delta R.T. -0.01 min
 Lab File: BF096503.D
 Acq: 6 Jul 2017 1:02

Instrument :
 BNA_F
 ClientSampled :
 B9-4-6

Tot Ion:166 Resp: 34678
 Ion Ratio Lower Upper
 166 100
 165 103.4 78.8 118.2
 167 15.7 10.6 16.0

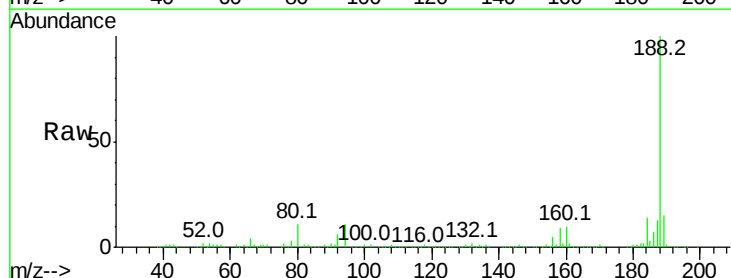


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

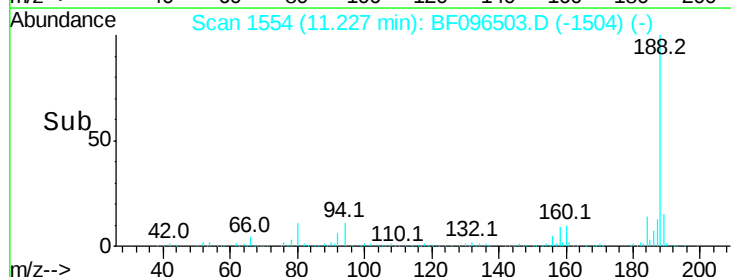
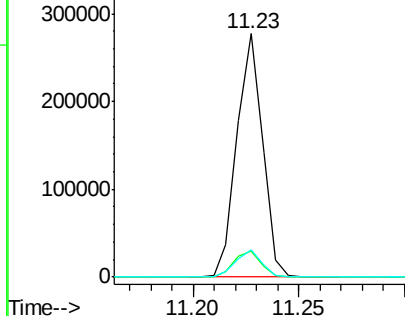


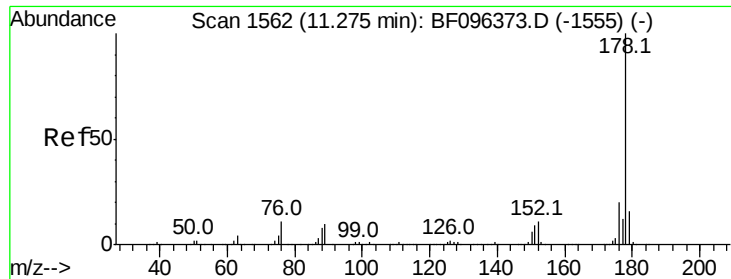
#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.23 min Scan# 1554
 Delta R.T. -0.01 min
 Lab File: BF096503.D
 Acq: 6 Jul 2017 1:02

Tgt Ion:188 Resp: 232365
 Ion Ratio Lower Upper
 188 100
 94 10.6 9.4 14.2
 80 11.1 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

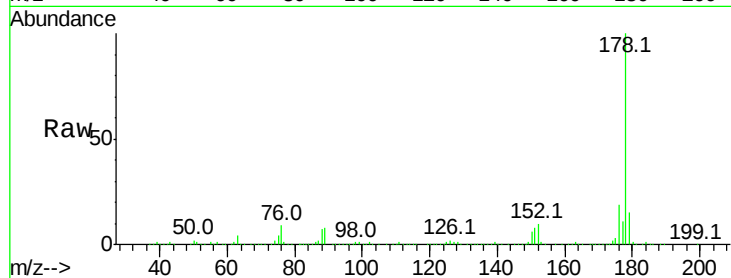




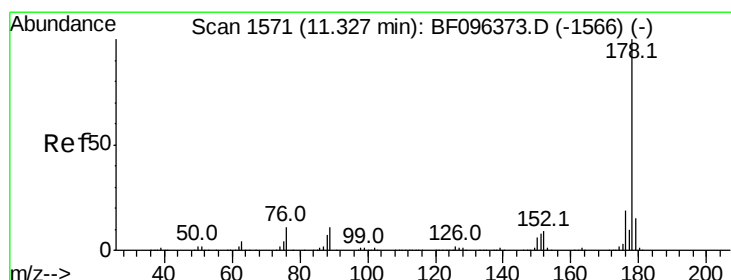
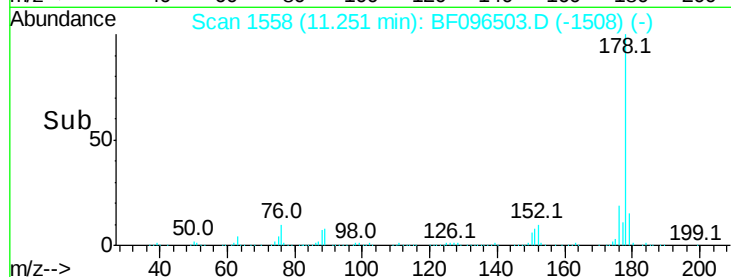
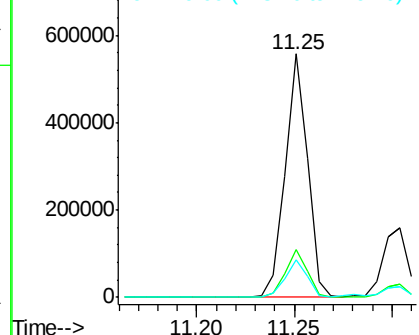
#70
Phenanthrene
Concen: 35.14 ng
RT: 11.25 min Scan# 1558
Delta R.T. -0.01 min
Lab File: BF096503.D
Acq: 6 Jul 2017 1:02

Instrument :
BNA_F
ClientSampleId :
B9-4-6

Tot Ion:178 Resp: 441426
Ion Ratio Lower Upper
178 100
176 19.4 16.2 24.4
179 15.4 12.6 19.0

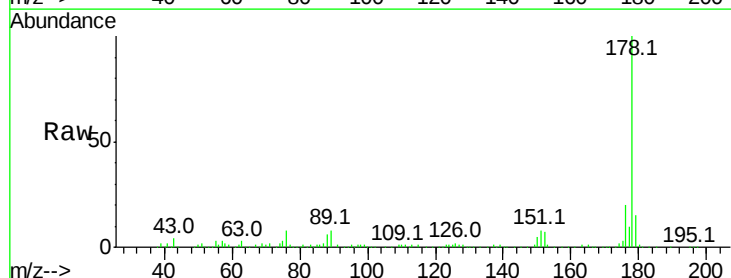


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

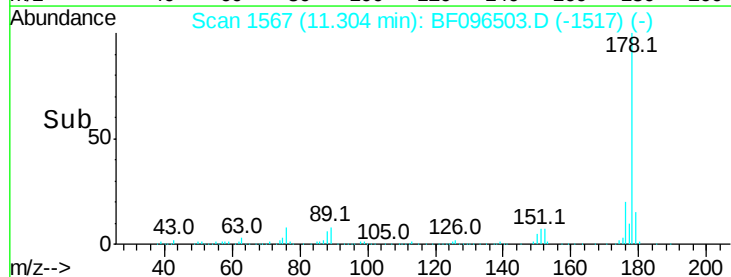
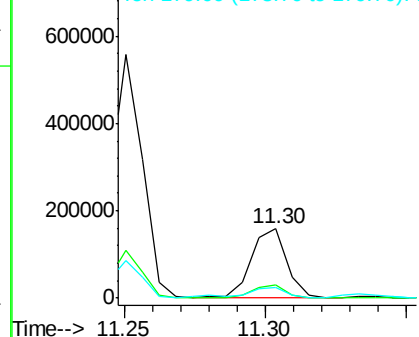


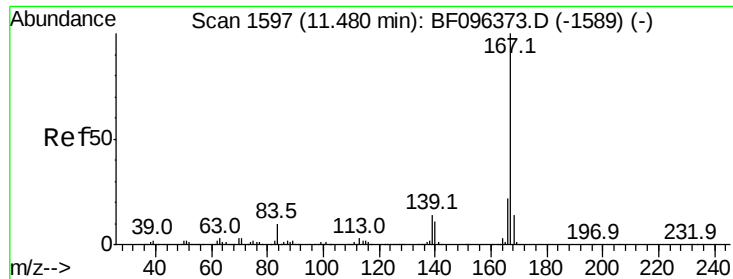
#71
Anthracene
Concen: 10.67 ng
RT: 11.30 min Scan# 1567
Delta R.T. -0.01 min
Lab File: BF096503.D
Acq: 6 Jul 2017 1:02

Tgt Ion:178 Resp: 136544
Ion Ratio Lower Upper
178 100
176 19.8 15.8 23.8
179 15.1 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

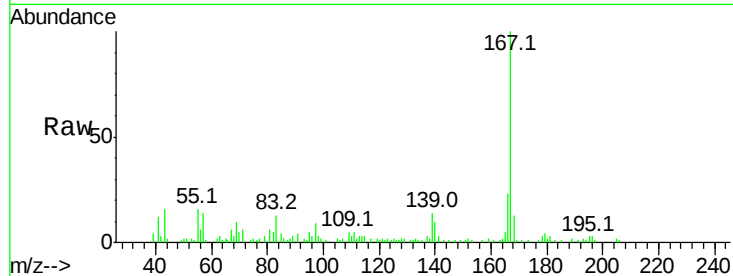




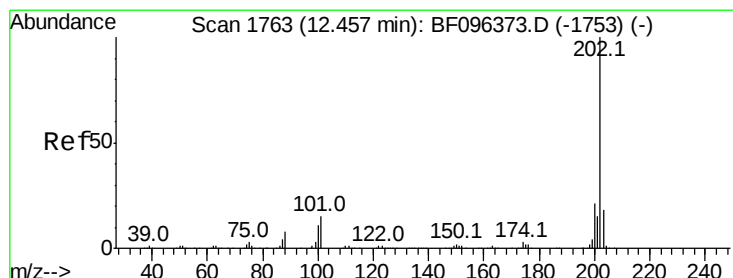
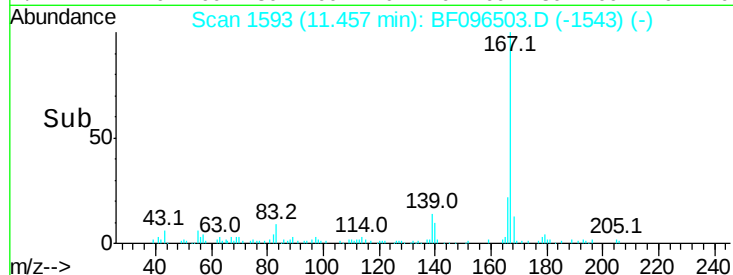
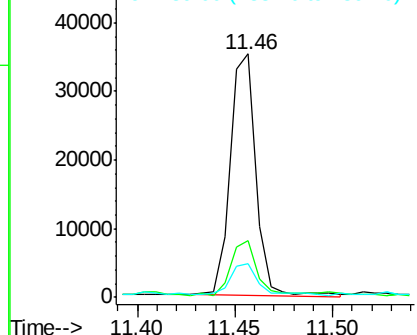
#72
 Carbazole
 Concen: 2.50 ng
 RT: 11.46 min Scan# 1593
 Delta R.T. -0.01 min
 Lab File: BF096503.D
 Acq: 6 Jul 2017 1:02

Instrument :
 BNA_F
 ClientSampleId :
 B9-4-6

Tot Ion:167 Resp: 32145
 Ion Ratio Lower Upper
 167 100
 166 23.3 18.1 27.1
 139 13.8 11.7 17.5

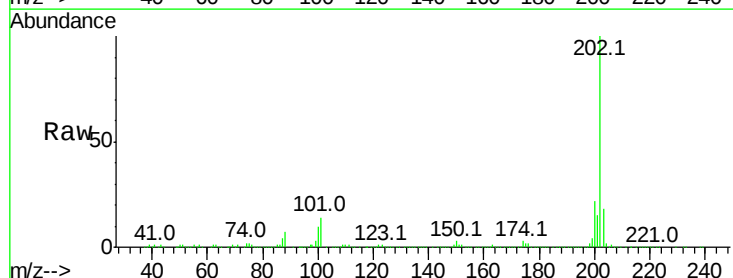


Abundance Ion 167.00 (166.70 to 167.70): E
 Ion 166.00 (165.70 to 166.70): E
 Ion 139.00 (138.70 to 139.70): E

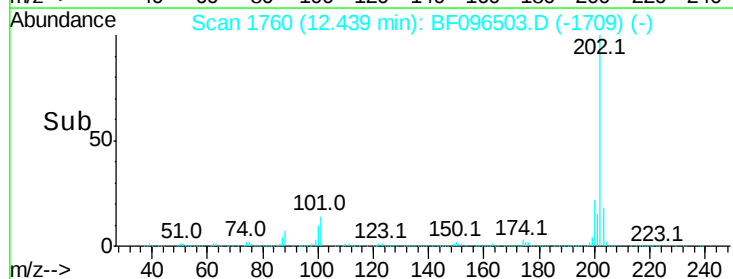
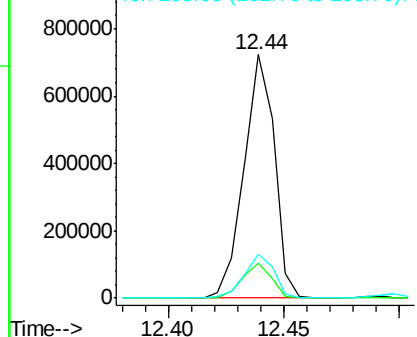


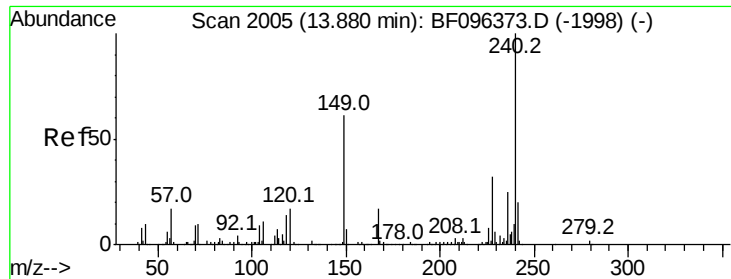
#74
 Fluoranthene
 Concen: 54.12 ng
 RT: 12.44 min Scan# 1760
 Delta R.T. -0.00 min
 Lab File: BF096503.D
 Acq: 6 Jul 2017 1:02

Tgt Ion:202 Resp: 666465
 Ion Ratio Lower Upper
 202 100
 101 14.3 0.0 33.2
 203 18.0 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: 13.86 min Scan# 2002

Delta R.T. -0.01 min

Lab File: BF096503.D

Acq: 6 Jul 2017 1:02

Instrument :

BNA_F

ClientSampleId :

B9-4-6

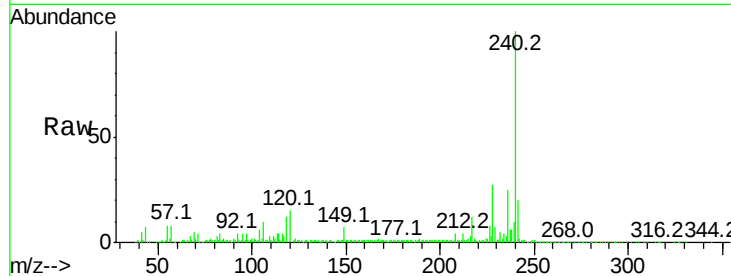
Tot Ion:240 Resp: 204372

Ion Ratio Lower Upper

240 100

120 14.7 5.8 8.8#

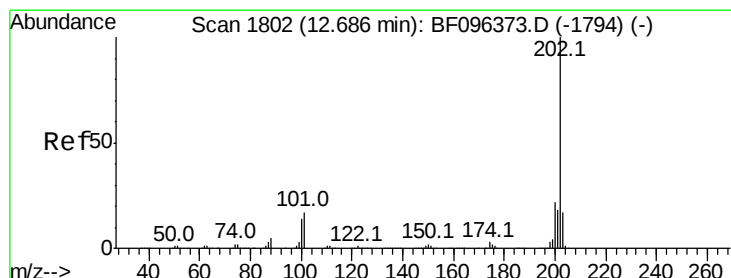
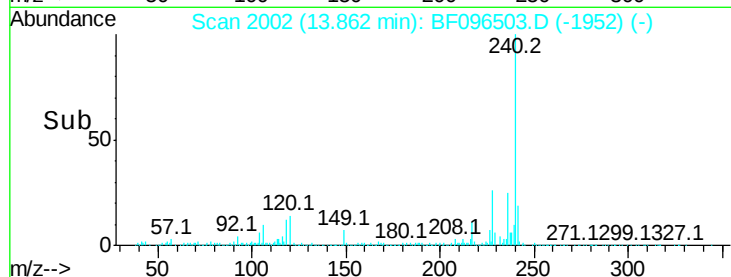
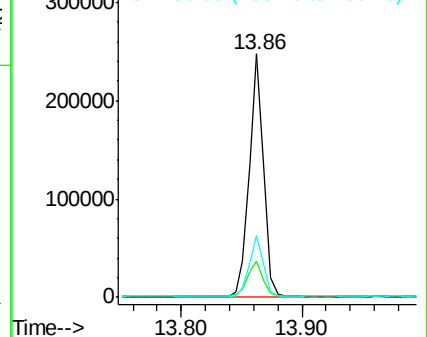
236 25.4 20.5 30.7



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: 38.50 ng

RT: 12.67 min Scan# 1799

Delta R.T. -0.00 min

Lab File: BF096503.D

Acq: 6 Jul 2017 1:02

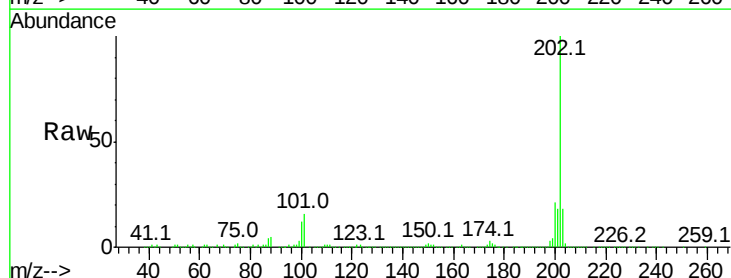
Tgt Ion:202 Resp: 631633

Ion Ratio Lower Upper

202 100

200 21.4 17.6 26.4

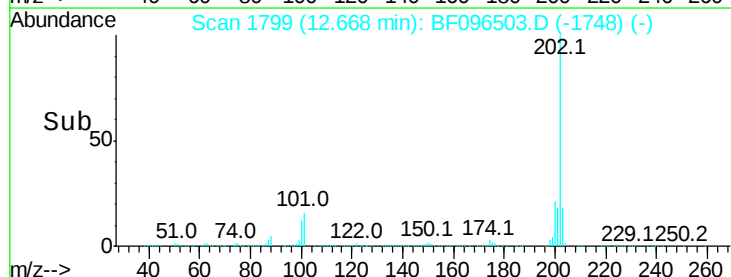
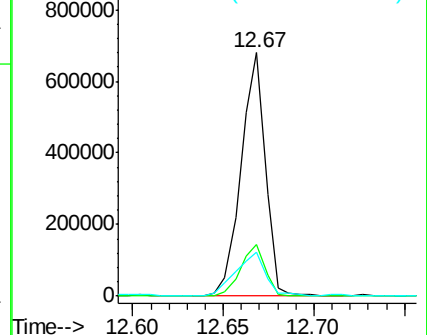
203 17.8 14.4 21.6

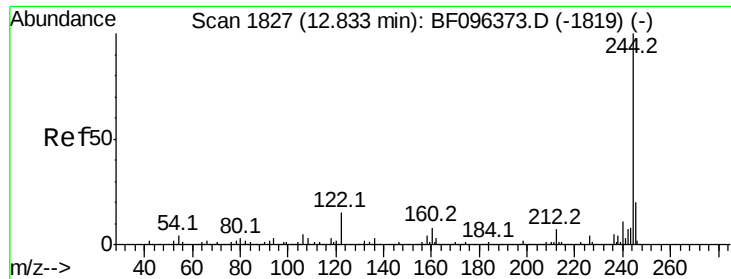


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 35.64 ng

RT: 12.81 min Scan# 1823

Delta R.T. -0.01 min

Lab File: BF096503.D

Acq: 6 Jul 2017 1:02

Instrument :

BNA_F

ClientSampleId :

B9-4-6

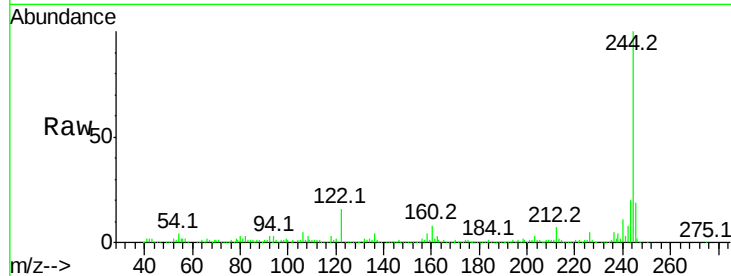
Tot Ion:244 Resp: 340856

Ion Ratio Lower Upper

244 100

212 6.5 6.0 9.0

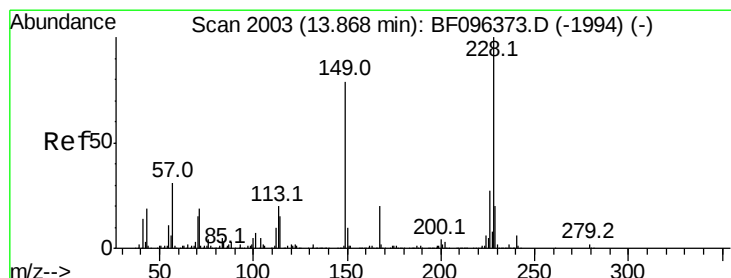
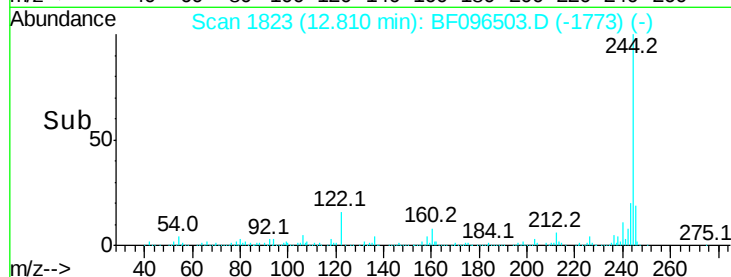
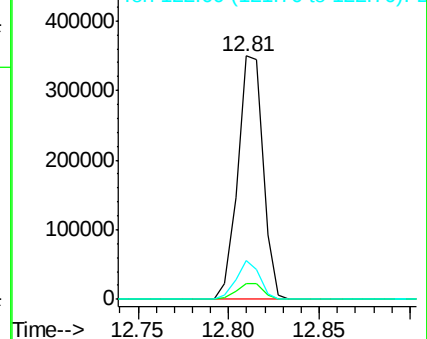
122 16.0 10.3 15.5#



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: 25.40 ng

RT: 13.85 min Scan# 2000

Delta R.T. -0.01 min

Lab File: BF096503.D

Acq: 6 Jul 2017 1:02

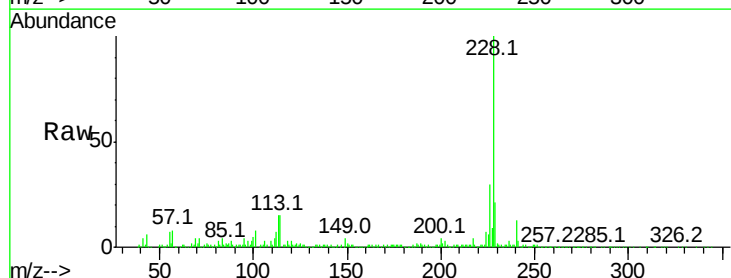
Tgt Ion:228 Resp: 300577

Ion Ratio Lower Upper

228 100

226 30.0 22.6 33.8

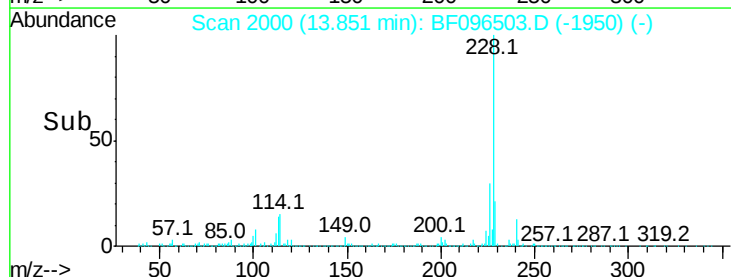
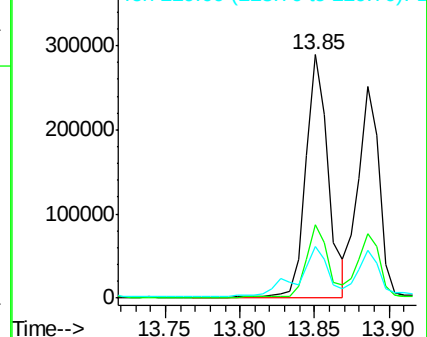
229 21.4 16.3 24.5

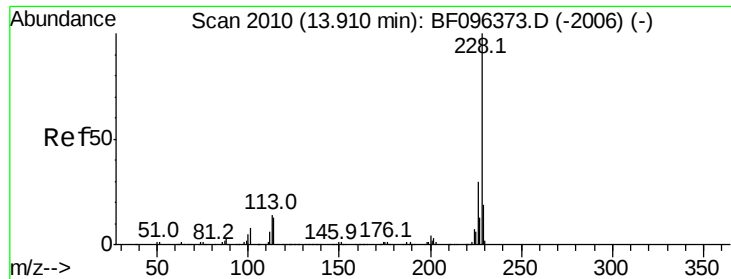


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 20.23 ng

RT: 13.89 min Scan# 2006

Delta R.T. -0.01 min

Lab File: BF096503.D

Acq: 6 Jul 2017 1:02

Instrument :

BNA_F

ClientSampleId :

B9-4-6

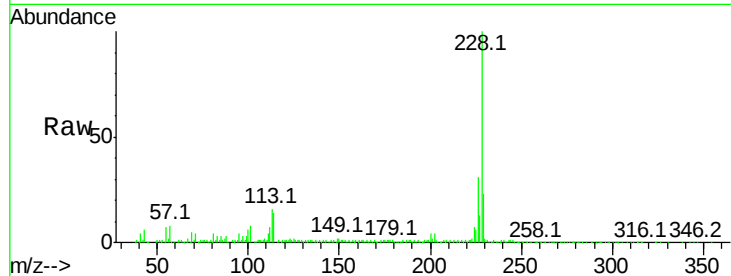
Tot Ion:228 Resp: 250780

Ion Ratio Lower Upper

228 100

226 30.7 24.9 37.3

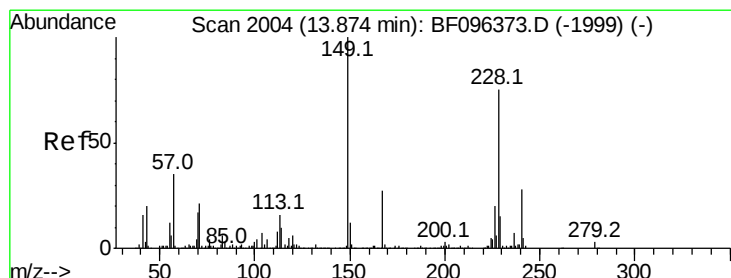
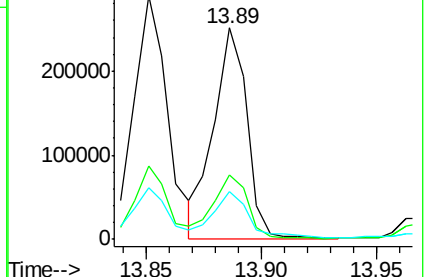
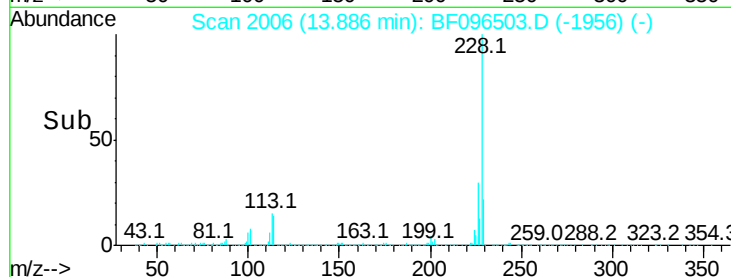
229 22.7 15.8 23.6



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



#83

Bis(2-ethylhexyl)phthalate

Concen: 2.25 ng

RT: 13.86 min Scan# 2001

Delta R.T. -0.00 min

Lab File: BF096503.D

Acq: 6 Jul 2017 1:02

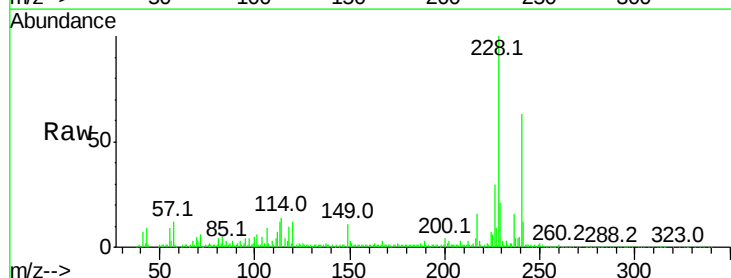
Tgt Ion:149 Resp: 20897

Ion Ratio Lower Upper

149 100

167 30.5 21.0 31.4

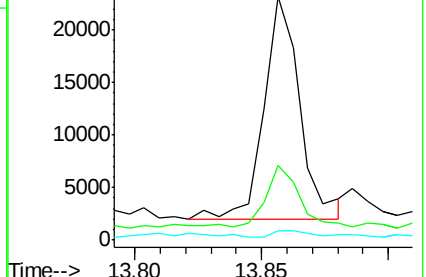
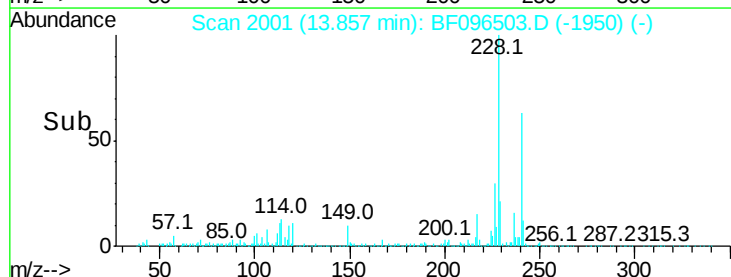
279 3.8 1.9 2.9#

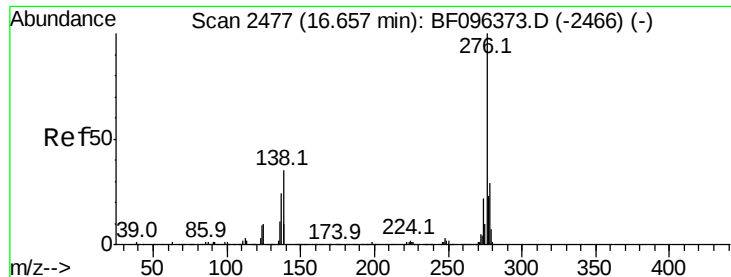


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

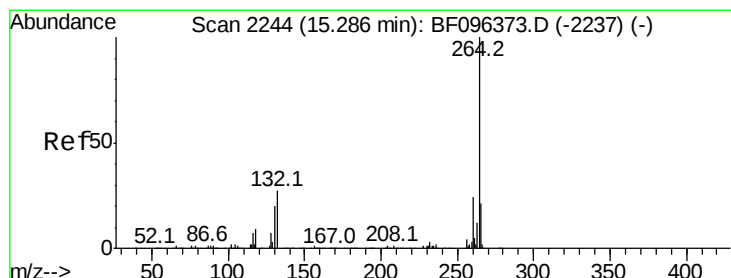
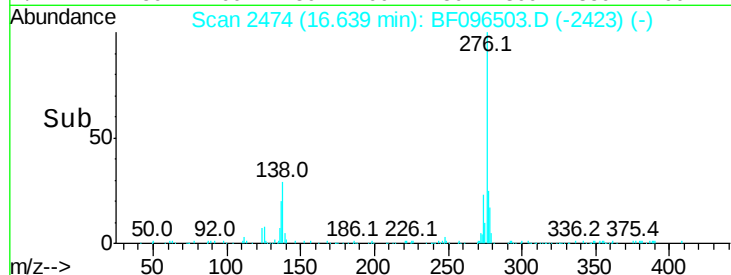
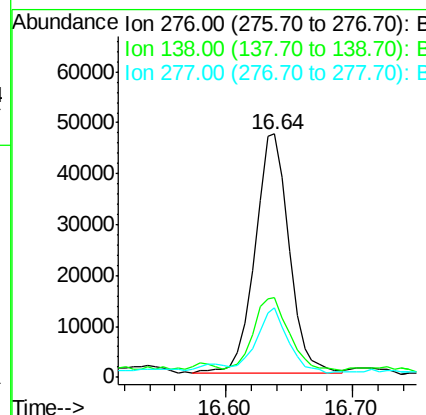
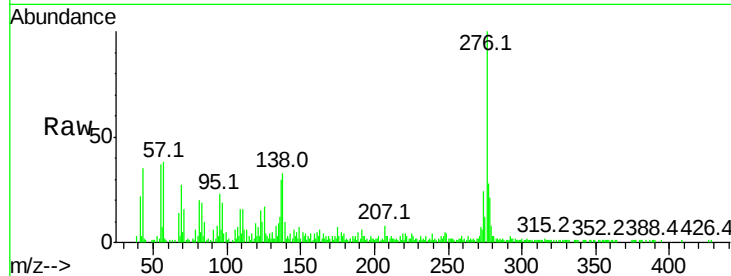




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 9.07 ng
 RT: 16.64 min Scan# 2474
 Delta R.T. -0.00 min
 Lab File: BF096503.D
 Acq: 6 Jul 2017 1:02

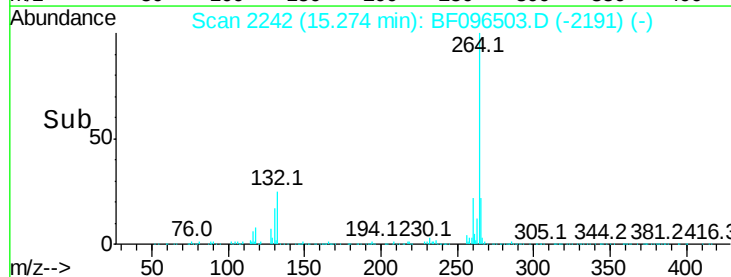
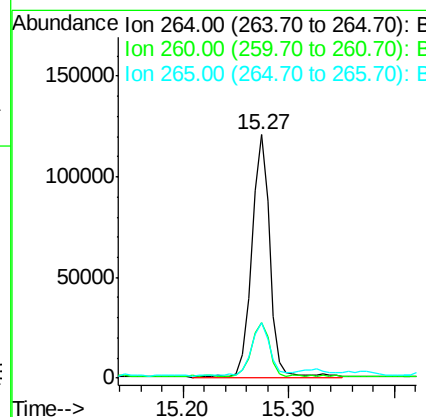
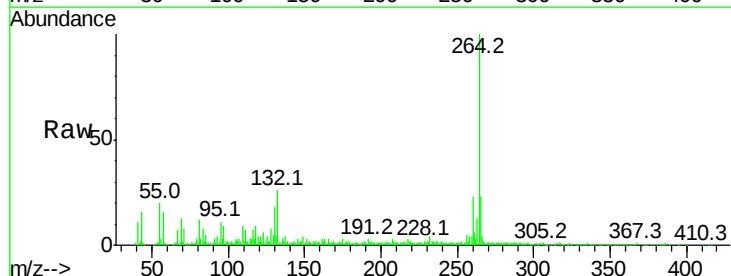
Instrument :
 BNA_F
 ClientSampleId :
 B9-4-6

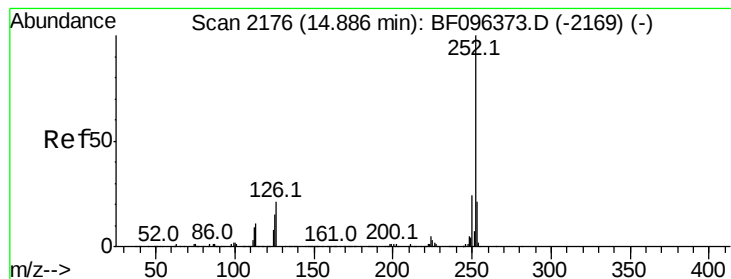
Tot Ion	Ratio	Lower	Upper
276	100		
138	31.9	27.8	41.6
277	24.3	20.2	30.4



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.27 min Scan# 2242
 Delta R.T. -0.00 min
 Lab File: BF096503.D
 Acq: 6 Jul 2017 1:02

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.5	19.5	29.3
265	22.7	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 27.52 ng m

RT: 14.87 min Scan# 2174

Delta R.T. -0.00 min

Lab File: BF096503.D

Acq: 6 Jul 2017 1:02

Instrument :

BNA_F

ClientSampleId :

B9-4-6

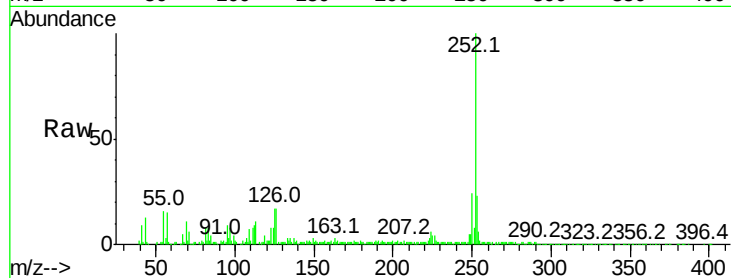
Tot Ion:252 Resp: 246320

Ion Ratio Lower Upper

252 100

253 23.5 18.1 27.1

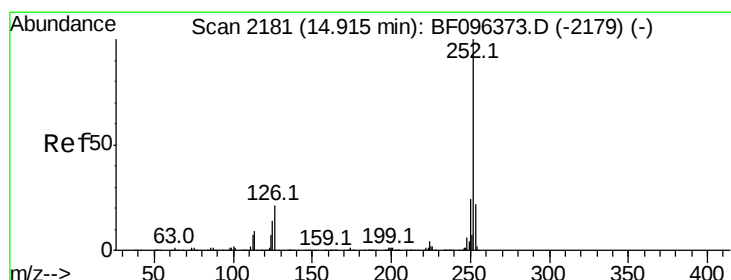
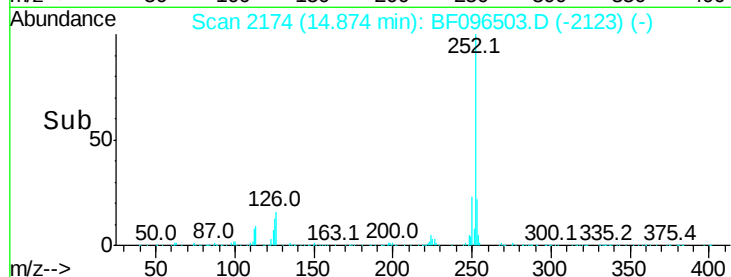
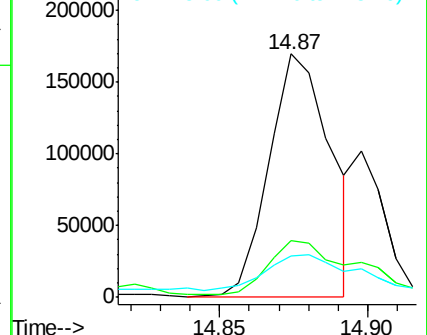
125 17.2 9.8 14.8#



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: 9.35 ng m

RT: 14.90 min Scan# 2178

Delta R.T. -0.01 min

Lab File: BF096503.D

Acq: 6 Jul 2017 1:02

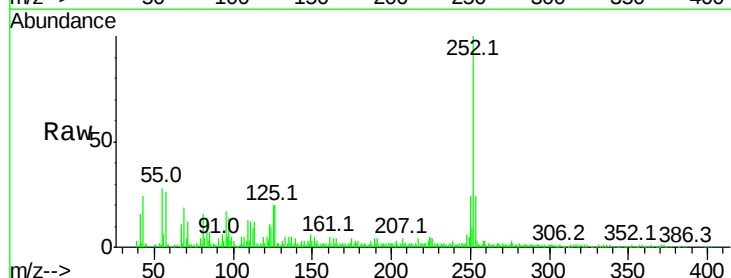
Tgt Ion:252 Resp: 74899

Ion Ratio Lower Upper

252 100

253 24.2 18.4 27.6

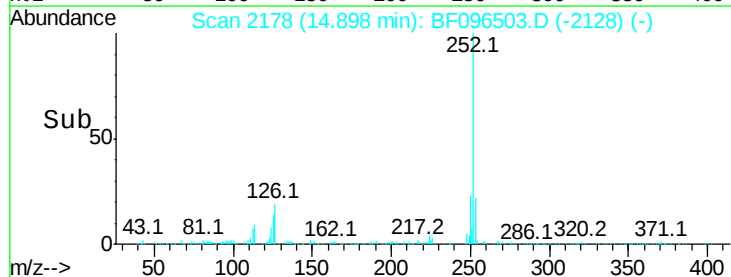
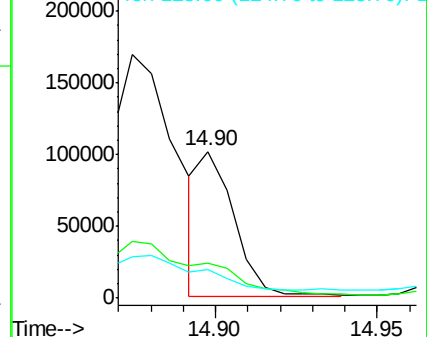
125 19.6 13.1 19.7

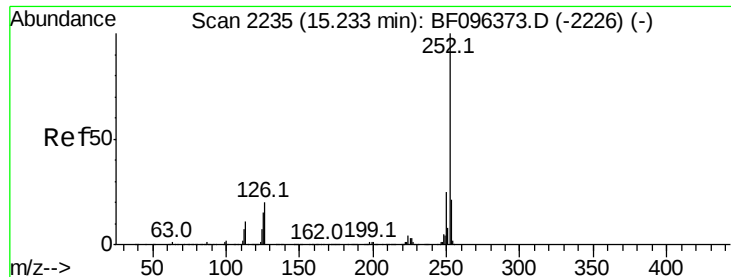


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 21.36 ng

RT: 15.22 min Scan# 2232

Delta R.T. -0.00 min

Lab File: BF096503.D

Acq: 6 Jul 2017 1:02

Instrument :

BNA_F

ClientSampleId :

B9-4-6

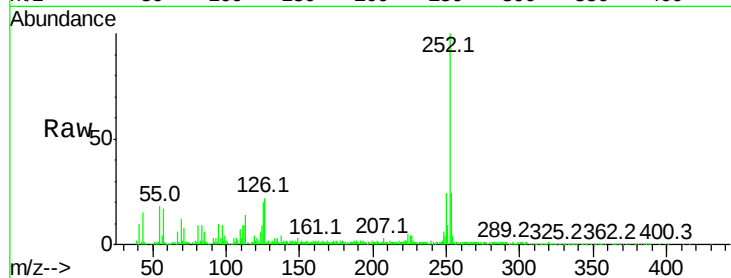
Tot Ion:252 Resp: 170683

Ion Ratio Lower Upper

252 100

253 24.5 17.5 26.3

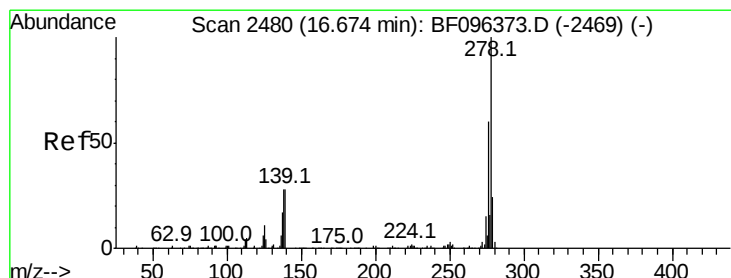
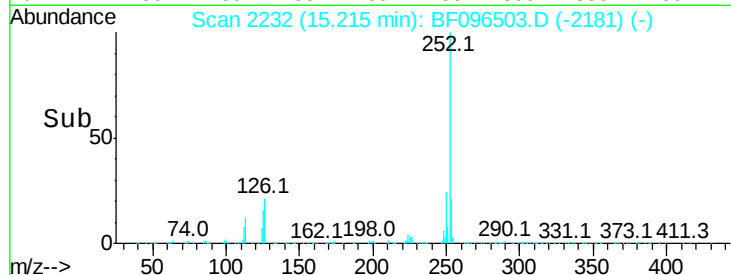
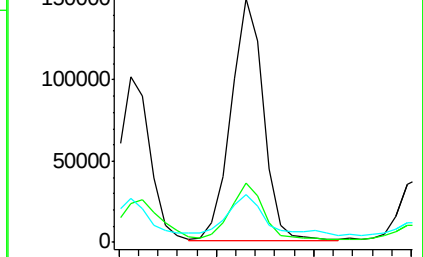
125 19.5 11.0 16.4#



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: 3.42 ng

RT: 16.64 min Scan# 2475

Delta R.T. -0.01 min

Lab File: BF096503.D

Acq: 6 Jul 2017 1:02

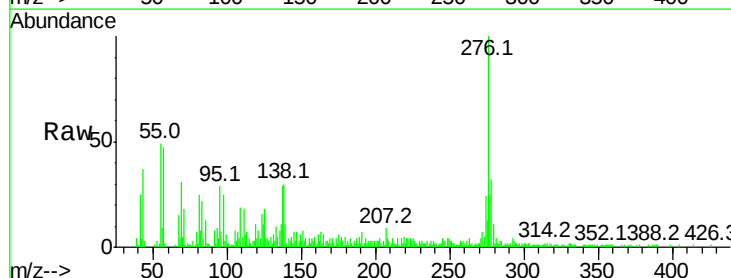
Tgt Ion:278 Resp: 21523

Ion Ratio Lower Upper

278 100

139 35.8 16.6 24.8#

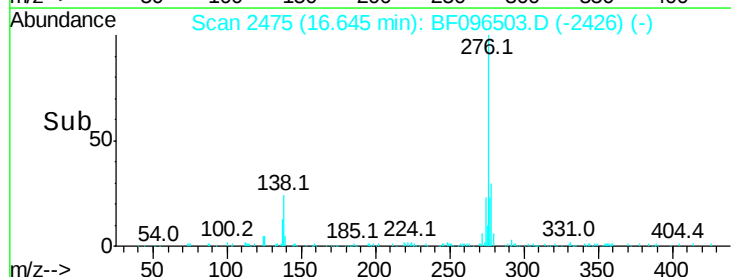
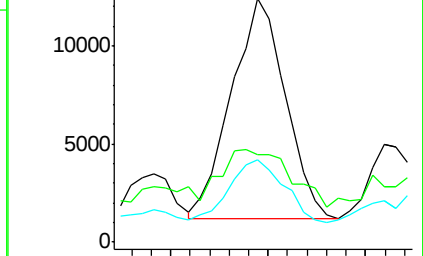
279 33.6 19.3 28.9#

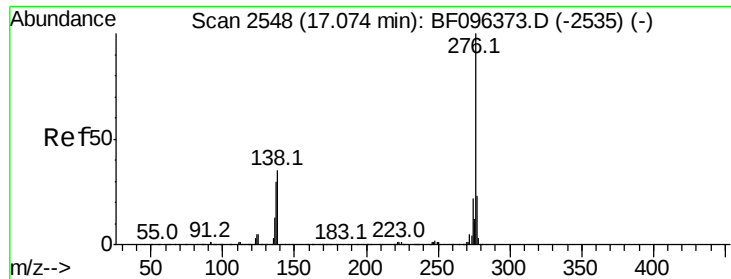


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E

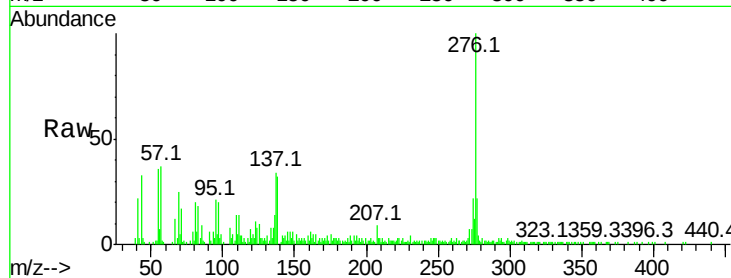




#91
 Benzo(a,h,i)perylene
 Concen: 12.98 ng
 RT: 17.04 min Scan# 2543
 Delta R.T. -0.01 min
 Lab File: BF096503.D
 Acq: 6 Jul 2017 1:02

Instrument :
 BNA_F
 ClientSampleId :
 B9-4-6

Tot Ion	Ratio	Lower	Upper
276	100		
277	22.1	18.6	28.0
138	32.3	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

