

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 :

Quant Time: Jul 06 01:45:09 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

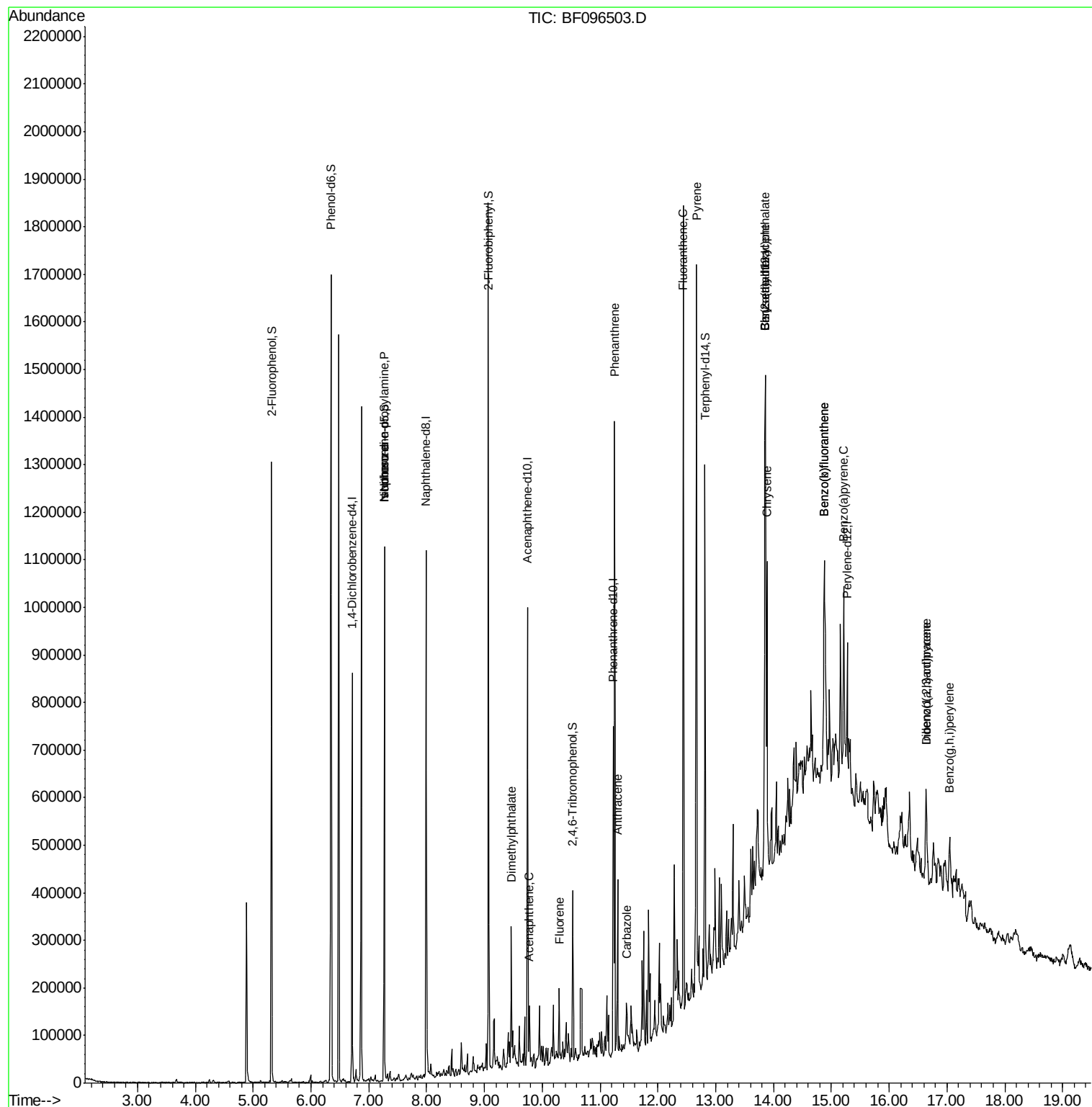
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.71	152	109809	20.00	ng	0.00
21) Naphthalene-d8	7.99	136	433246	20.00	ng	0.00
38) Acenaphthene-d10	9.75	164	168577	20.00	ng	0.00
63) Phenanthrene-d10	11.23	188	232365	20.00	ng	0.00
75) Chrysene-d12	13.86	240	204372	20.00	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						
19) n-Nitroso-di-n-propylamine	7.27	70	38305	7.03	ng	# 87
25) Isophorone	7.27	82	288146	20.61	ng	# 67
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	321751	35.94	ng	# 94
88) Benzo(k)fluoranthene	14.87	252	321751	40.18	ng	99
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

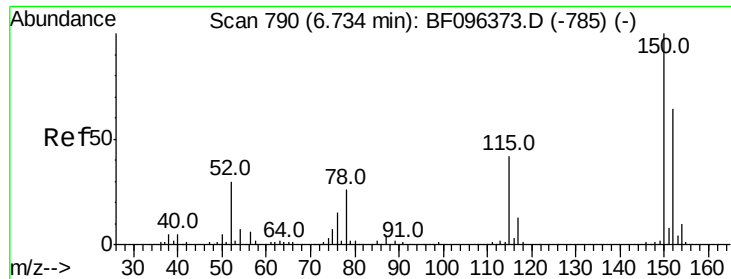
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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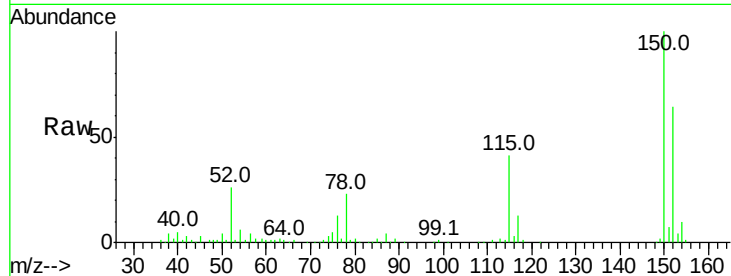


#1

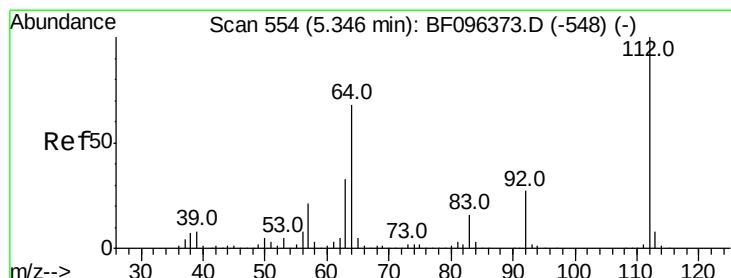
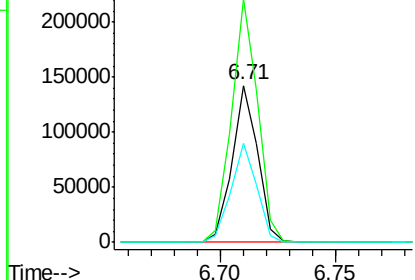
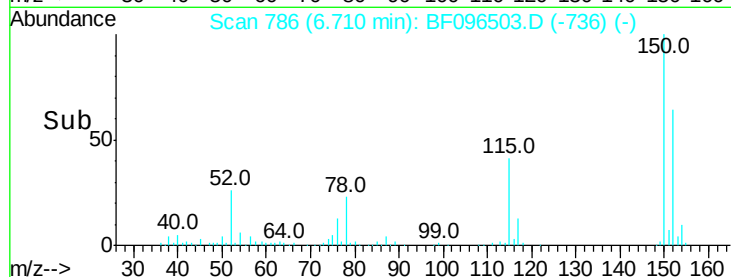
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.71 min Scan# 786
Delta R.T. -0.01 min
Lab File: BF096503.D
Acq: 6 Jul 2017 1:02

Instrument :
BNA_F
ClientSampled :

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



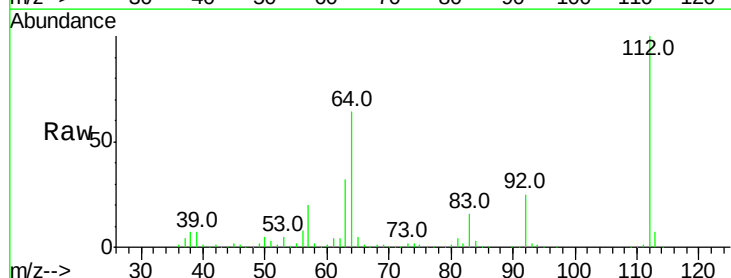
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



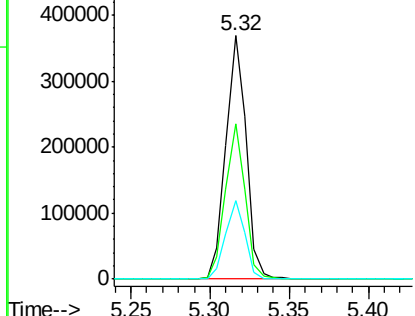
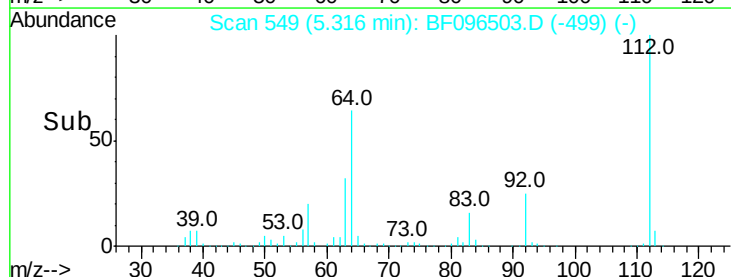
#5

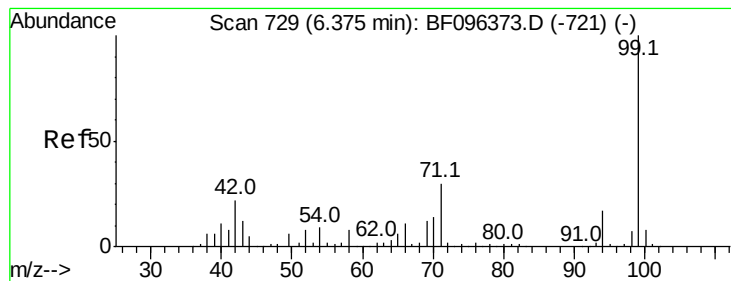
2-Fluorophenol
Concen: 44.16 ng
RT: 5.32 min Scan# 549
Delta R.T. -0.01 min
Lab File: BF096503.D
Acq: 6 Jul 2017 1:02

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

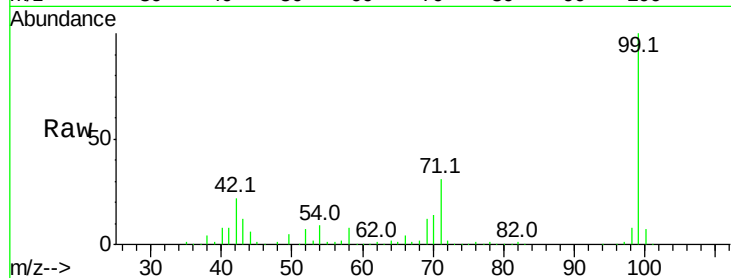
Instrument :

BNA_F

ClientSampleId :

Tot Ion: 99 Resp: 514474

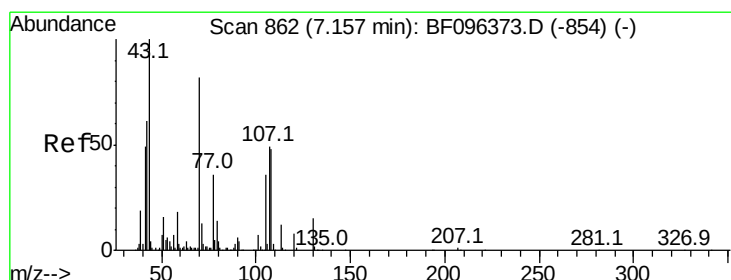
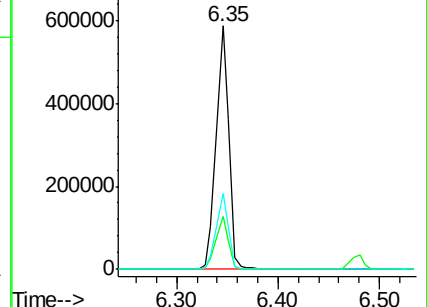
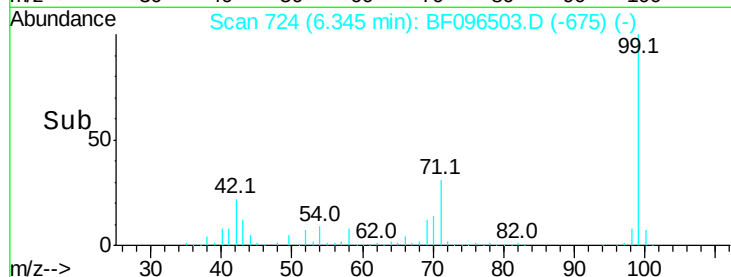
Ion	Ratio	Lower	Upper
99	100		
42	21.8	13.5	20.3#
71	31.4	24.5	36.7



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



#19

n-Nitroso-di-n-propylamine

Concen: 7.03 ng

RT: 7.27 min Scan# 881

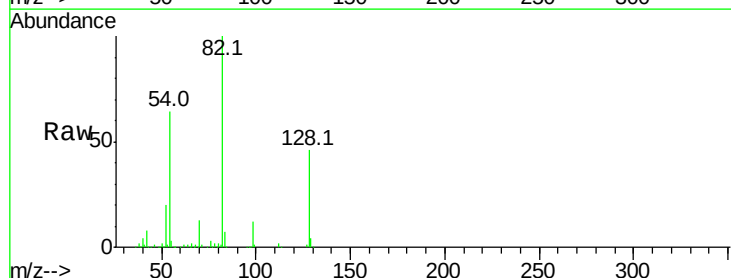
Delta R.T. 0.14 min

Lab File: BF096503.D

Acq: 6 Jul 2017 1:02

Tgt Ion: 70 Resp: 38305

Ion	Ratio	Lower	Upper
70	100		
42	60.9	47.2	70.8
101	0.0	7.2	10.8#
130	2.0	15.9	23.9#

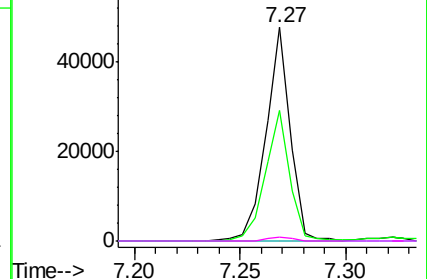
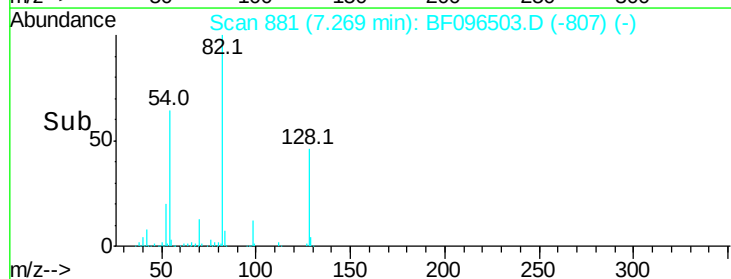


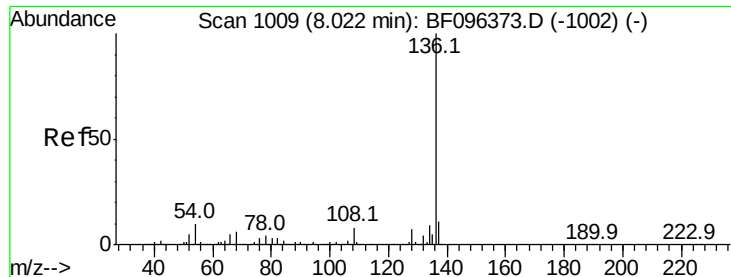
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): 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

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 433246

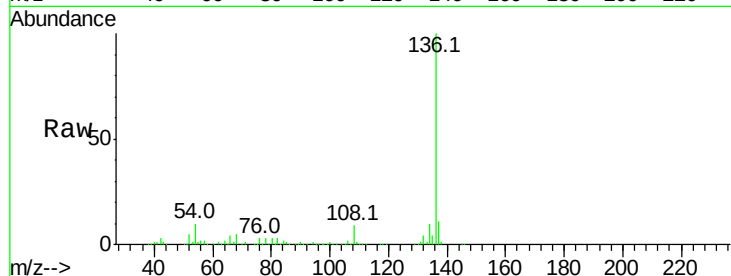
Ion Ratio Lower Upper

136 100

137 10.7 8.5 12.7

54 10.5 4.9 7.3#

68 5.2 4.1 6.1

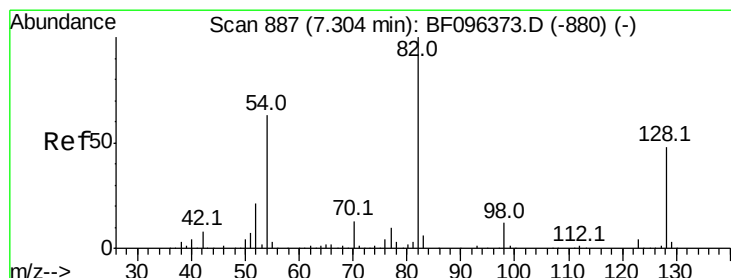
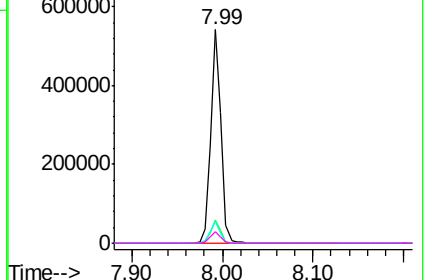
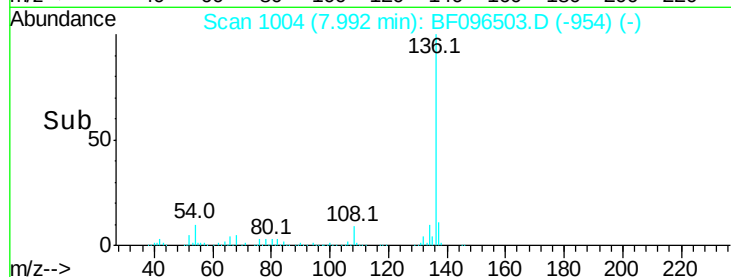


Abundance Ion 136.00 (135.70 to 136.70): E

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

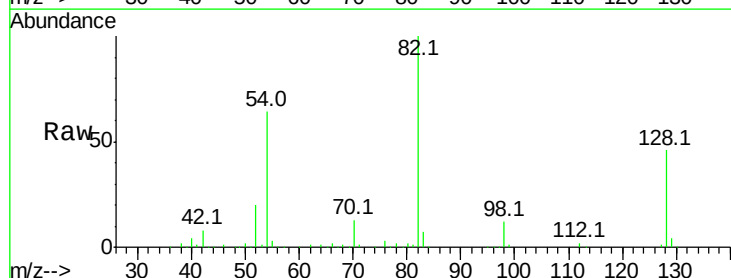
Tgt Ion: 82 Resp: 290954

Ion Ratio Lower Upper

82 100

128 46.3 34.0 51.0

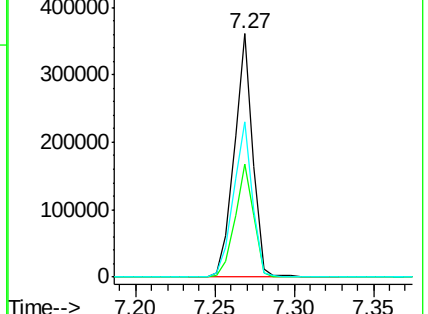
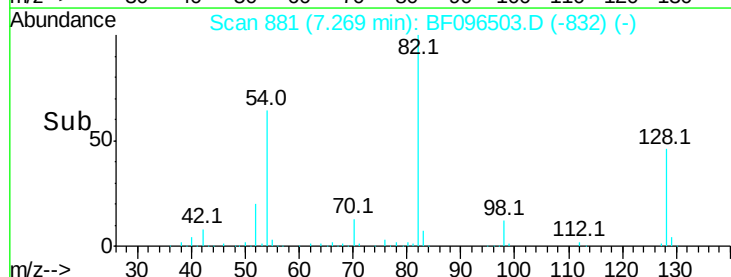
54 63.6 42.2 63.2#

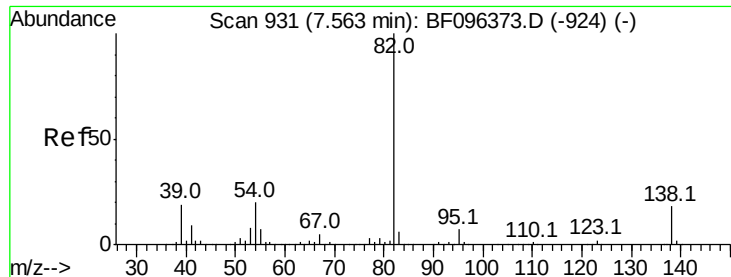


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 20.61 ng

RT: 7.27 min Scan# 881

Delta R.T. -0.27 min

Lab File: BF096503.D

Acq: 6 Jul 2017 1:02

Instrument :

BNA_F

ClientSampled :

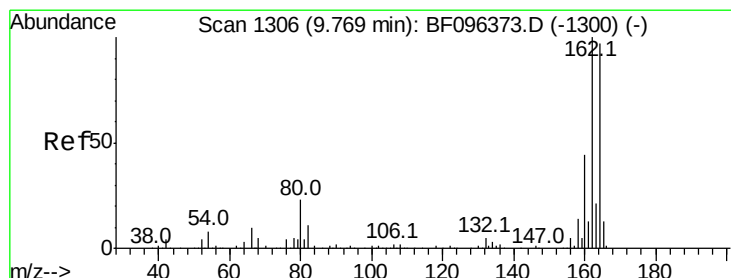
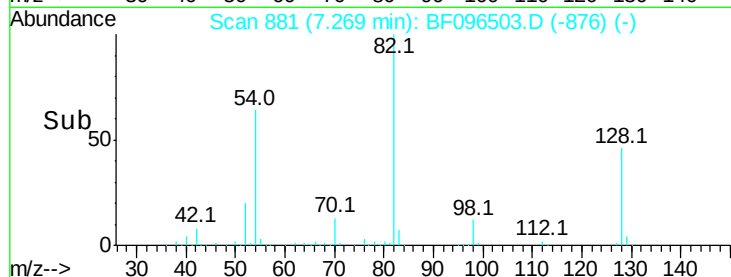
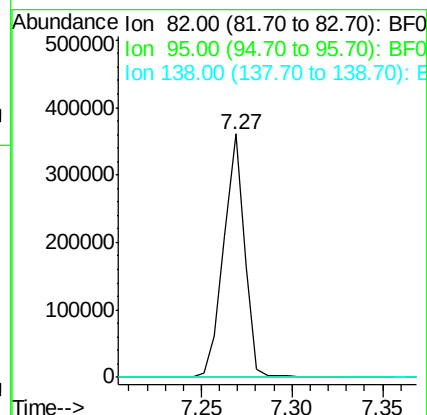
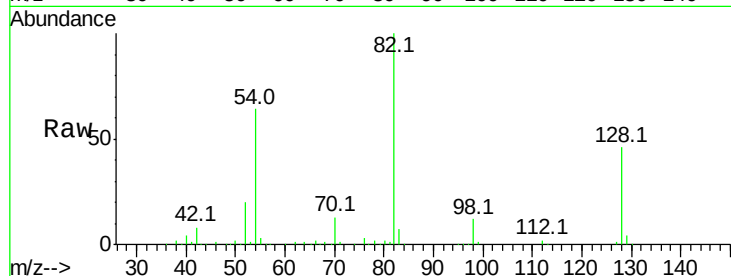
Tot Ion: 82 Resp: 288146

Ion Ratio Lower Upper

82 100

95 0.1 5.3 7.9#

138 0.0 13.1 19.7#



#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

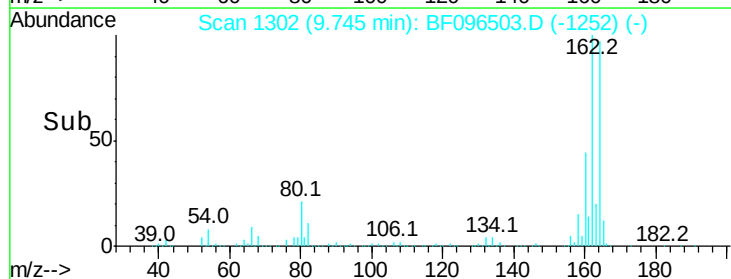
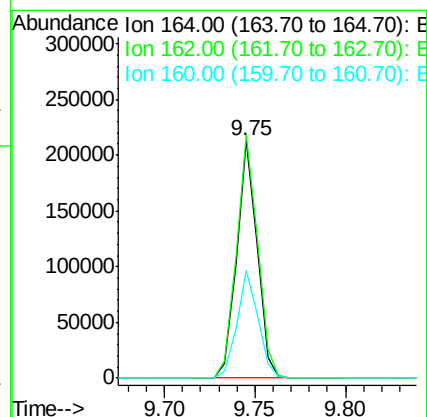
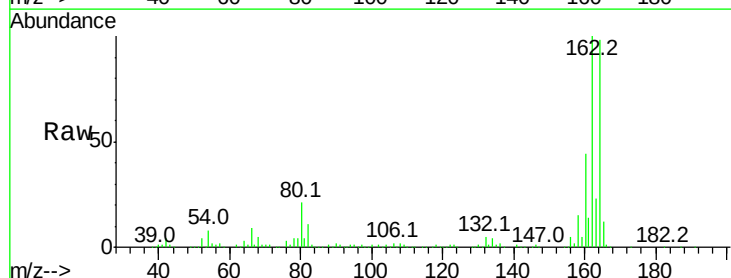
Tgt Ion: 164 Resp: 168577

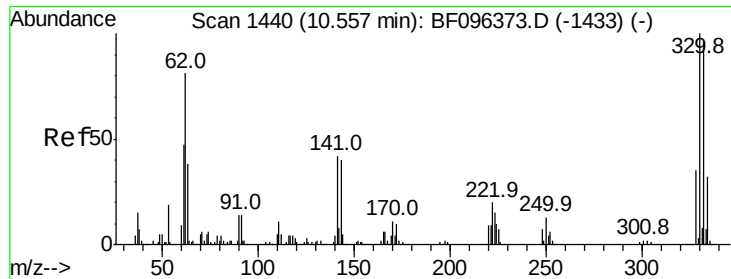
Ion Ratio Lower Upper

164 100

162 102.6 82.6 123.8

160 45.5 36.2 54.2

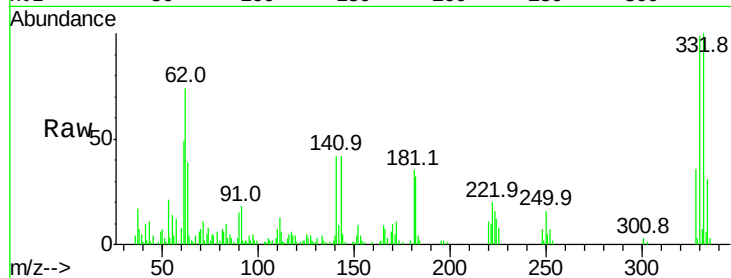




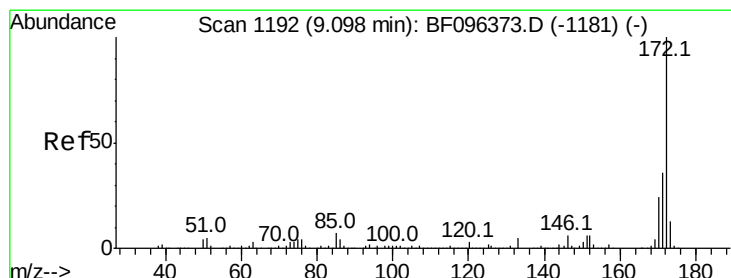
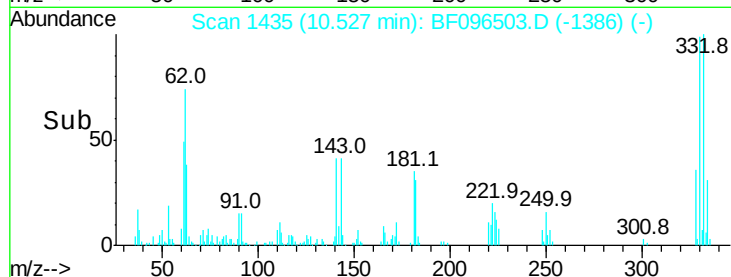
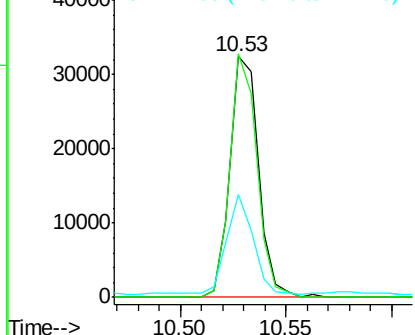
#41
 2,4,6-Tribromophenol
 Concen: 22.98 ng
 RT: 10.53 min Scan# 1435
 Delta R.T. -0.01 min
 Lab File: BF096503.D
 Acq: 6 Jul 2017 1:02

Instrument :
 BNA_F
 ClientSampleId :

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

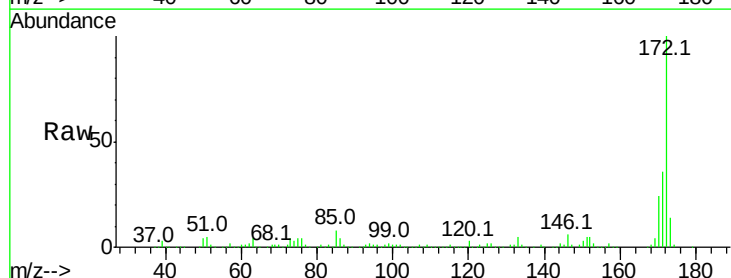


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

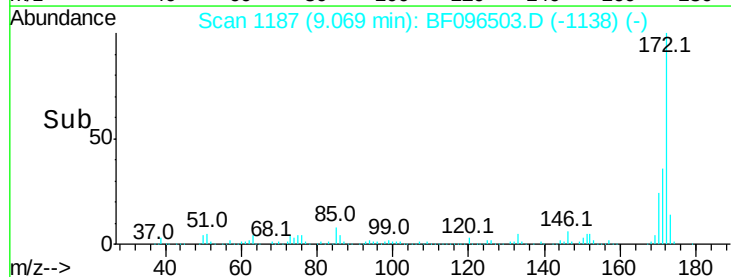
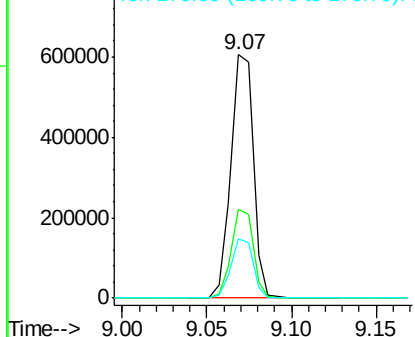


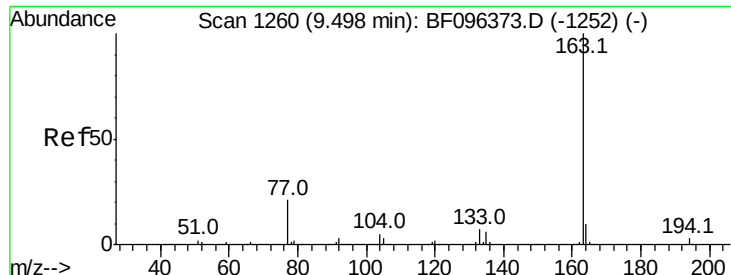
#44
 2-Fluorobiphenyl
 Concen: 56.96 ng
 RT: 9.07 min Scan# 1187
 Delta R.T. -0.01 min
 Lab File: BF096503.D
 Acq: 6 Jul 2017 1:02

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

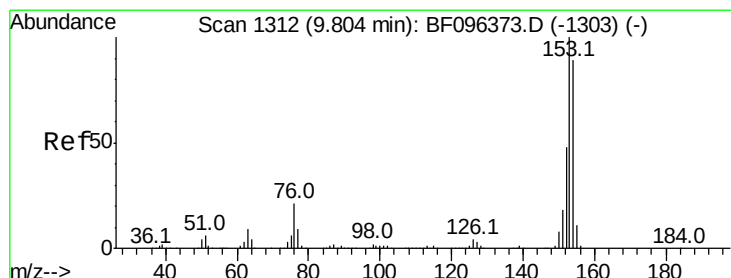
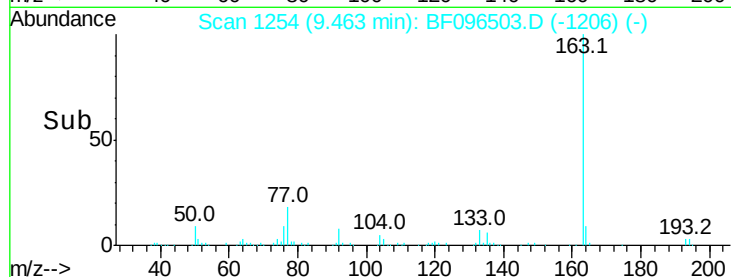
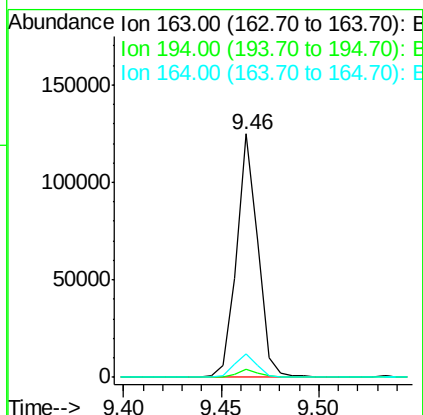
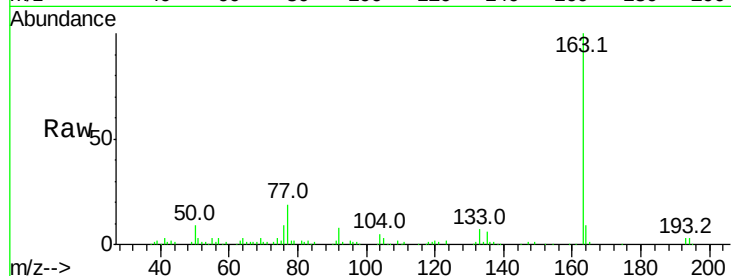




#49
Dimethylphthalate
Concen: 7.52 ng
RT: 9.46 min Scan# 1254
Delta R.T. -0.02 min
Lab File: BF096503.D
Acq: 6 Jul 2017 1:02

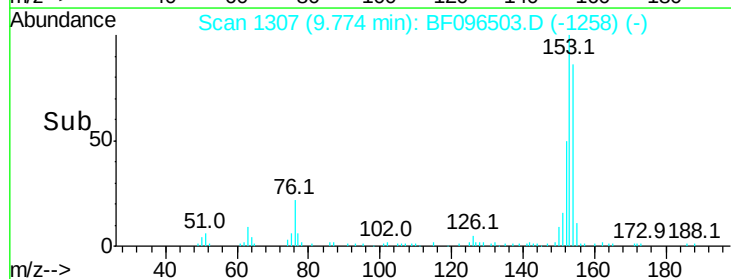
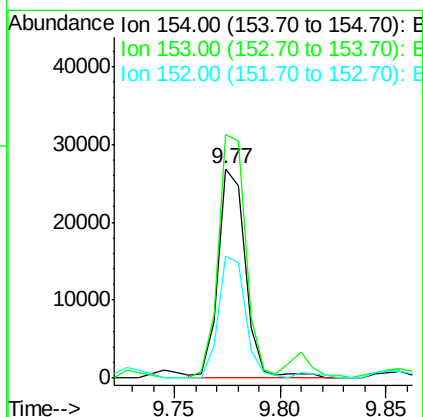
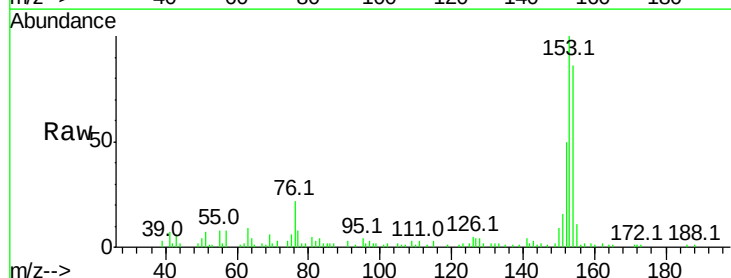
Instrument :
BNA_F
ClientSampleId :

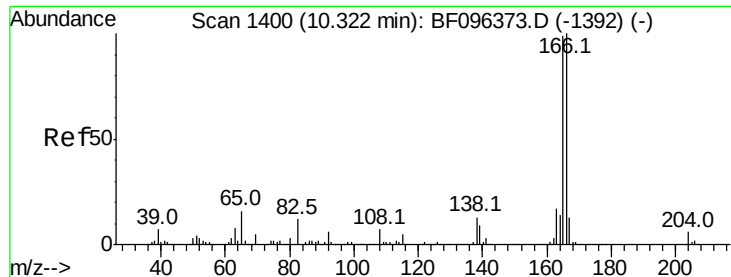
Tot Ion	Ratio	Lower	Upper
163	100		
194	3.4	2.6	4.0
164	9.4	8.4	12.6



#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	Ratio	Lower	Upper
154	100		
153	116.2	90.5	135.7
152	58.0	43.6	65.4

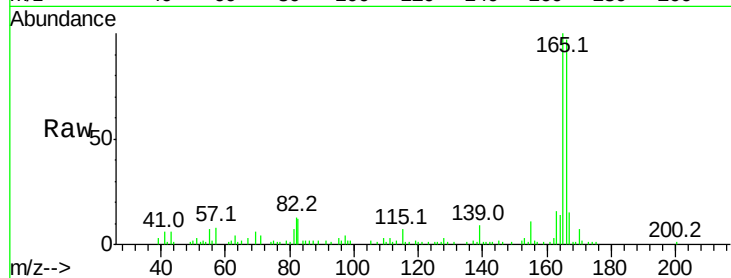




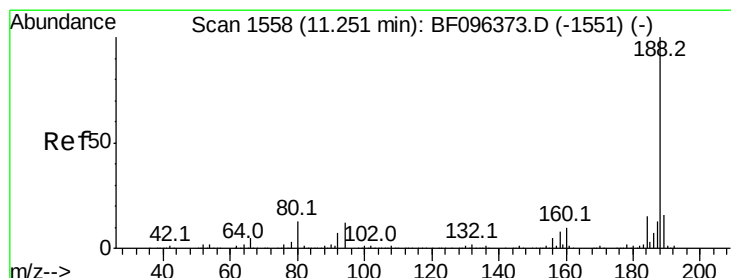
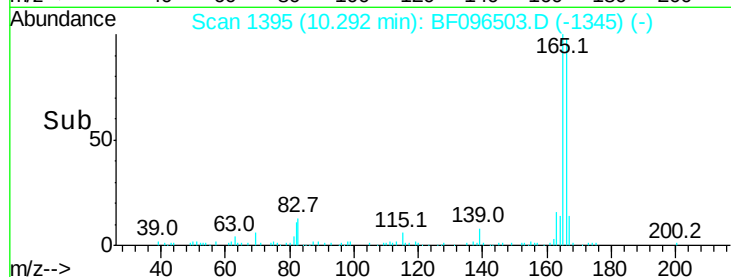
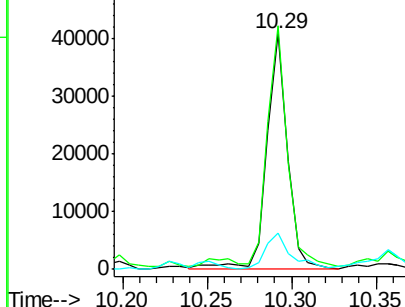
#57
Fluorene
 Concen: 3.54 ng
 RT: 10.29 min Scan# 1395
 Delta R.T. -0.01 min
 Lab File: BF096503.D
 Acq: 6 Jul 2017 1:02

Instrument :
 BNA_F
 ClientSampled :

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

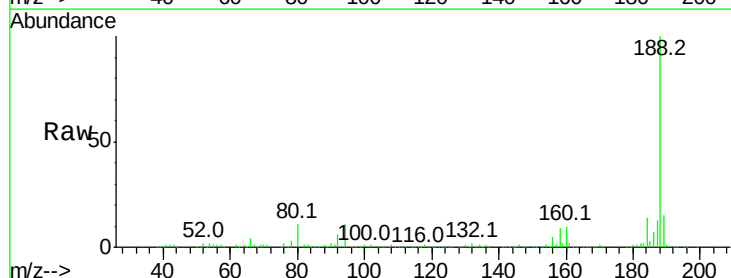


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

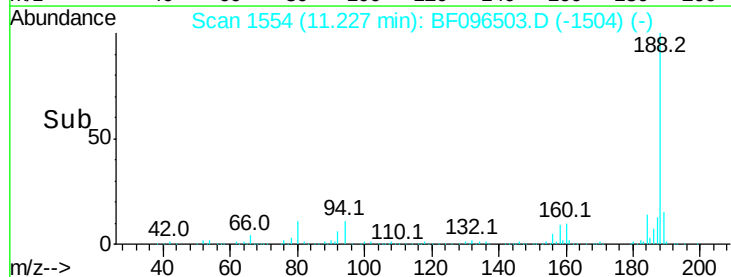
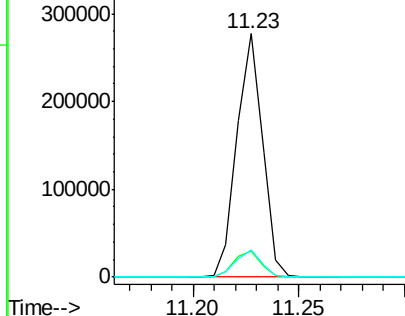


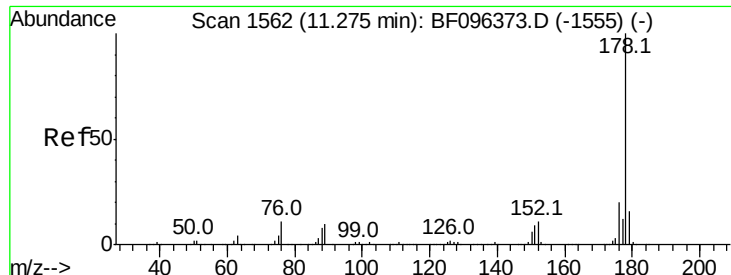
#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.23 min Scan# 1554
 Delta R.T. -0.01 min
 Lab File: BF096503.D
 Acq: 6 Jul 2017 1:02

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 :

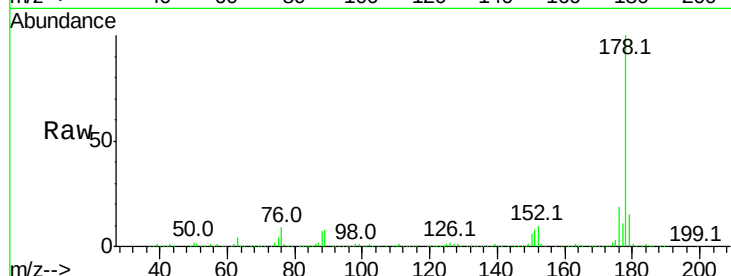
Tot Ion:178 Resp: 441426

Ion Ratio Lower Upper

178 100

176 19.4 16.2 24.4

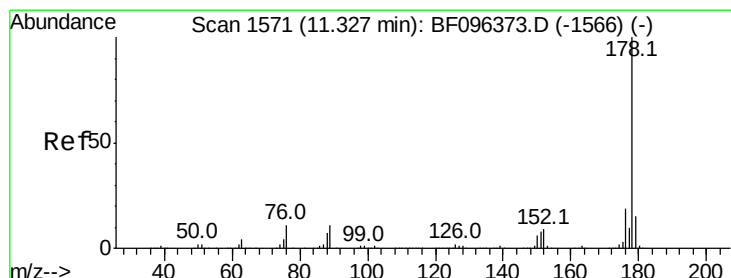
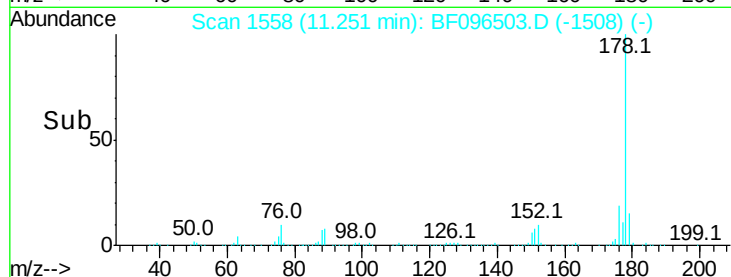
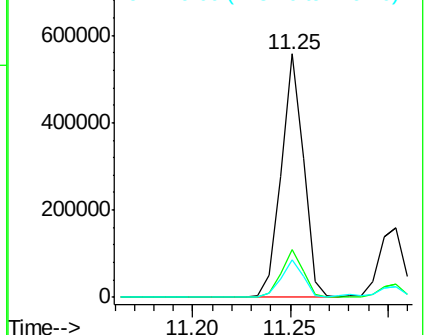
179 15.4 12.6 19.0



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

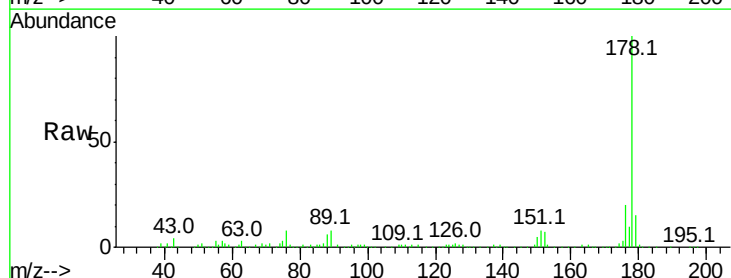
Tgt Ion:178 Resp: 136544

Ion Ratio Lower Upper

178 100

176 19.8 15.8 23.8

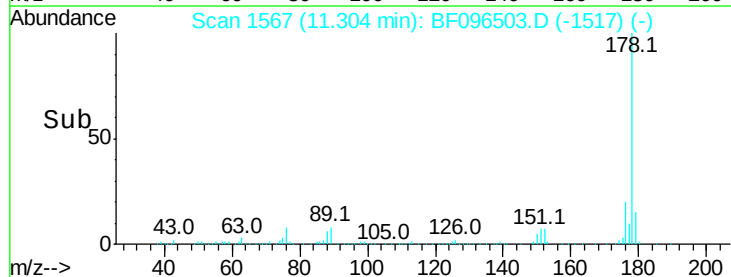
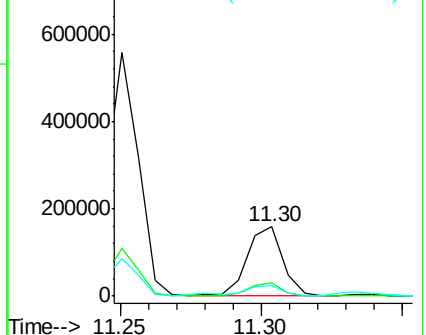
179 15.1 12.7 19.1

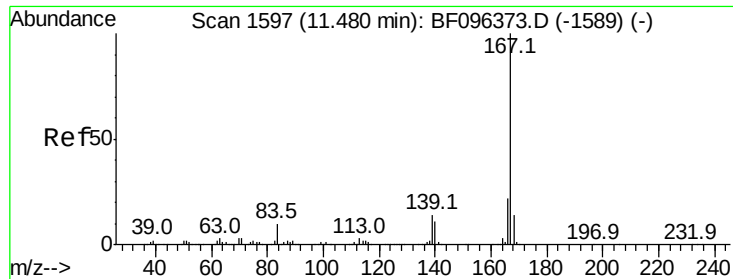


Abundance Ion 178.00 (177.70 to 178.70): E

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 :

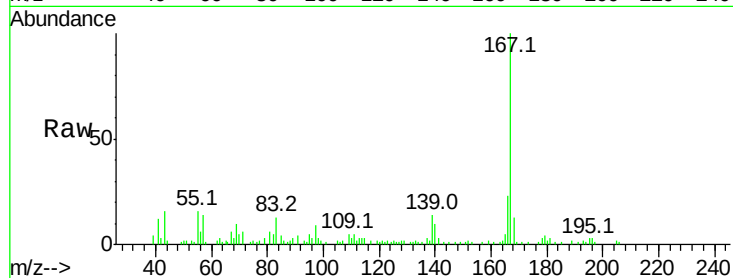
Tot Ion:167 Resp: 32145

Ion Ratio Lower Upper

167 100

166 23.3 18.1 27.1

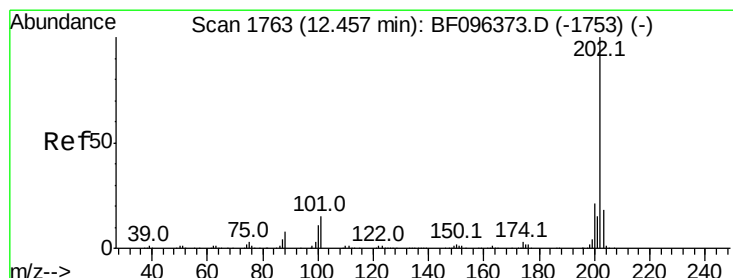
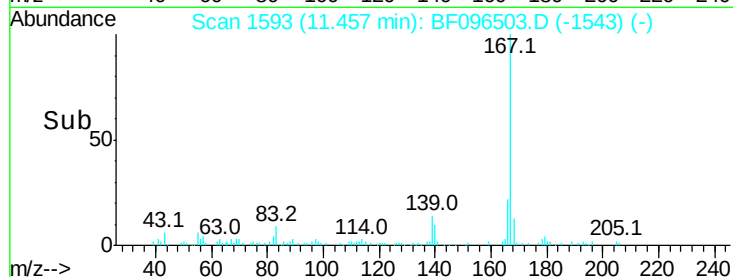
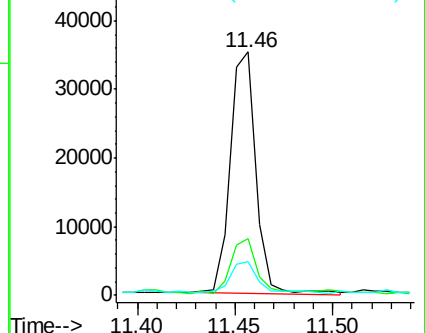
139 13.8 11.7 17.5



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

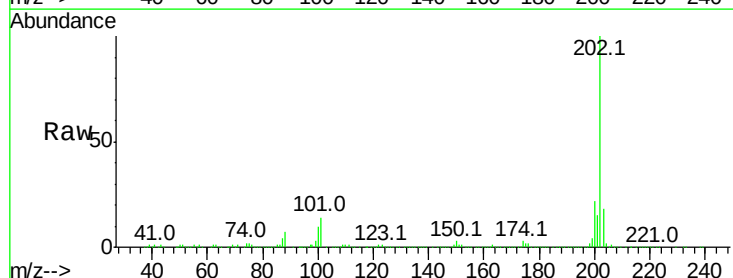
Tgt Ion:202 Resp: 666465

Ion Ratio Lower Upper

202 100

101 14.3 0.0 33.2

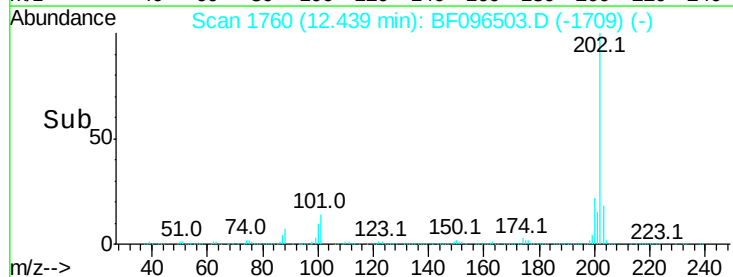
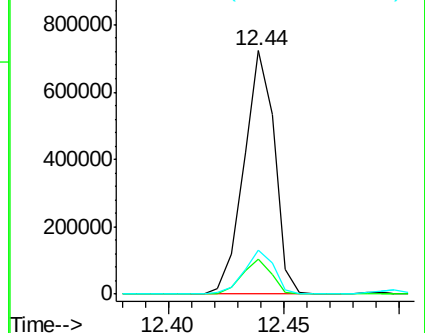
203 18.0 0.0 38.1

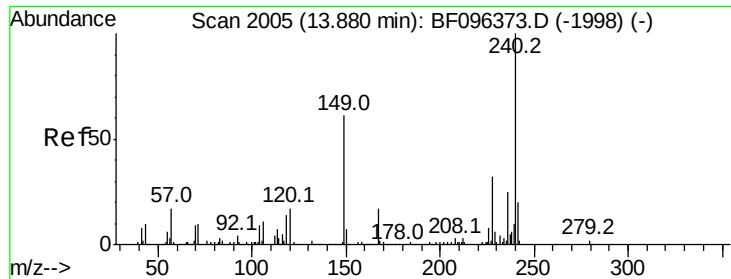


Abundance Ion 202.00 (201.70 to 202.70): E

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 :

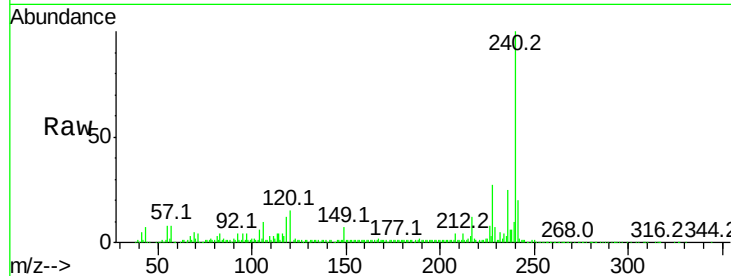
Tot Ion:240 Resp: 204372

Ion Ratio Lower Upper

240 100

120 14.7 5.8 8.8#

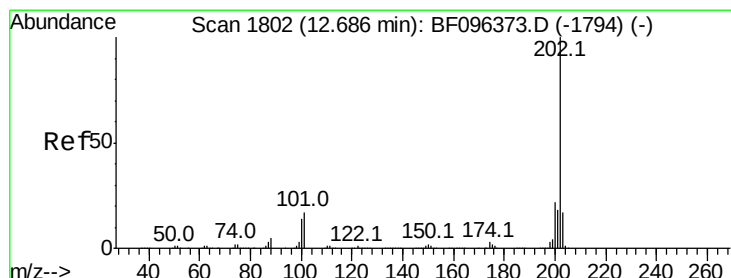
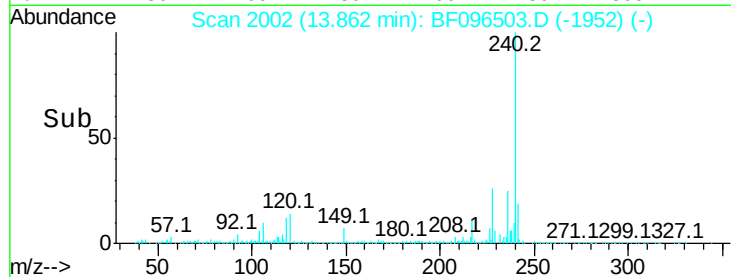
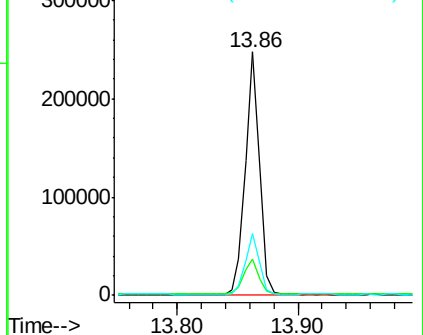
236 25.4 20.5 30.7



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

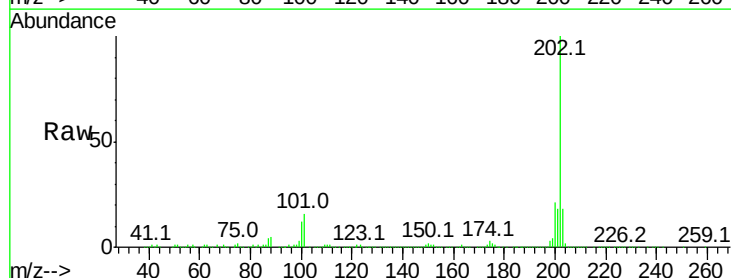
Tgt Ion:202 Resp: 631633

Ion Ratio Lower Upper

202 100

200 21.4 17.6 26.4

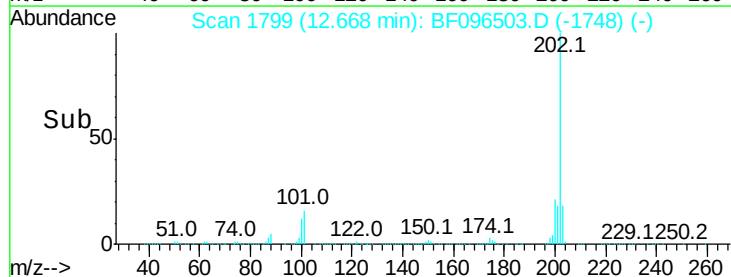
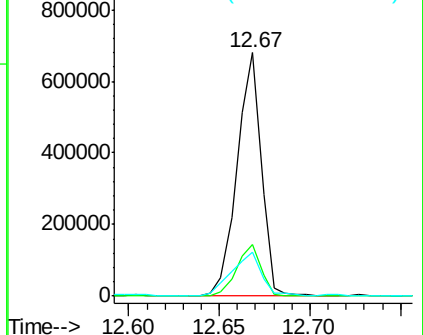
203 17.8 14.4 21.6

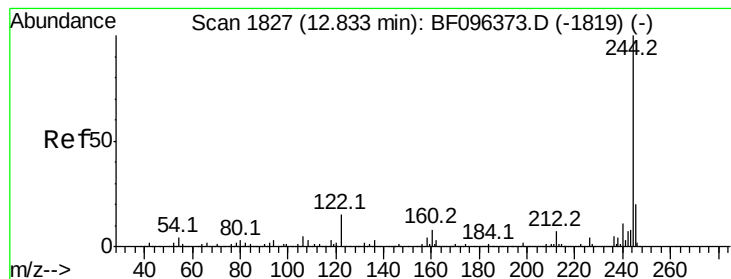


Abundance Ion 202.00 (201.70 to 202.70): E

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 :

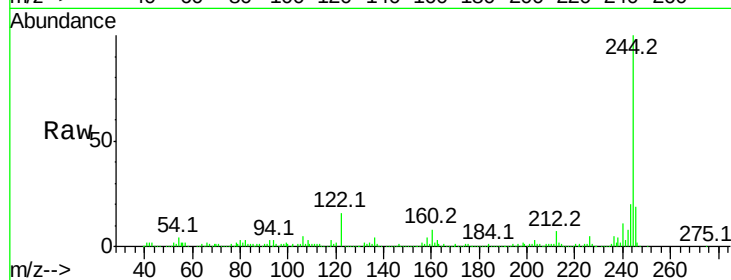
Tot Ion:244 Resp: 340856

Ion Ratio Lower Upper

244 100

212 6.5 6.0 9.0

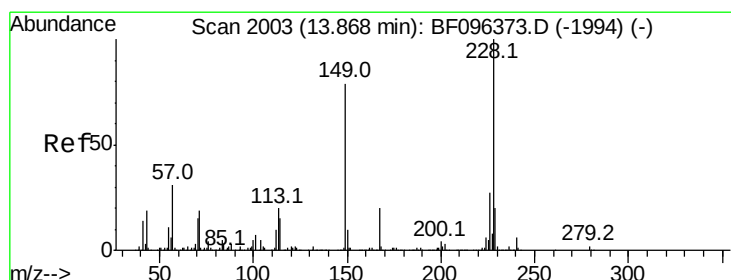
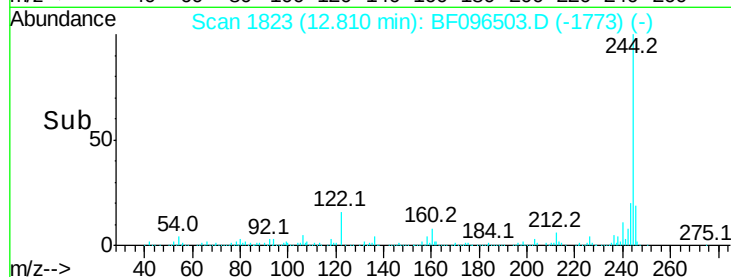
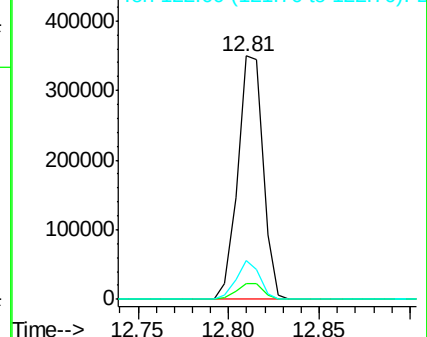
122 16.0 10.3 15.5#



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

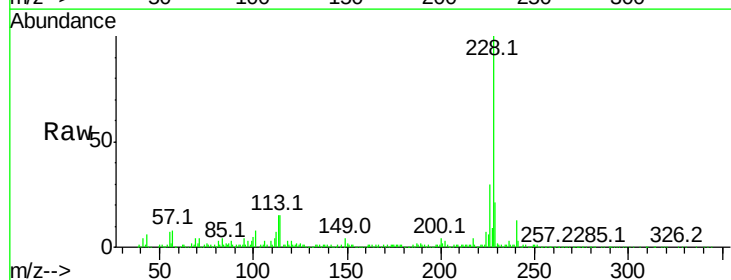
Tgt Ion:228 Resp: 300577

Ion Ratio Lower Upper

228 100

226 30.0 22.6 33.8

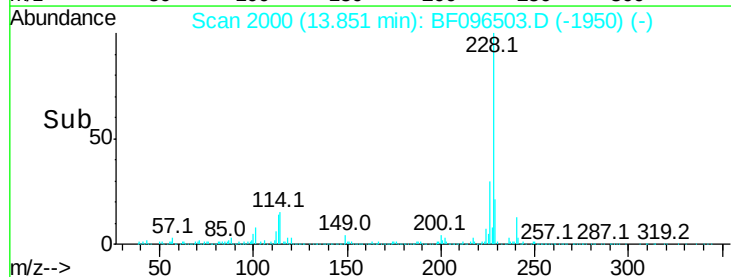
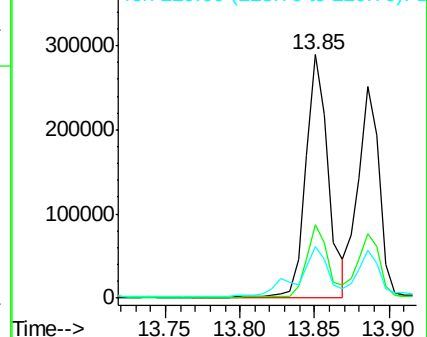
229 21.4 16.3 24.5

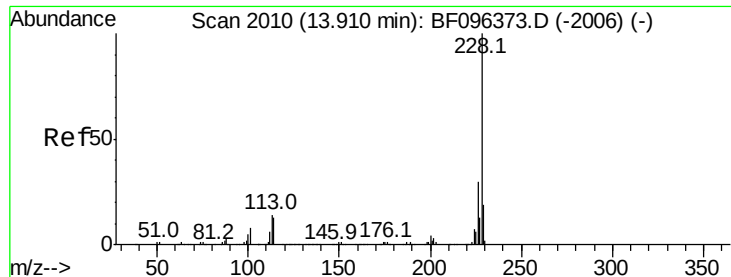


Abundance Ion 228.00 (227.70 to 228.70): E

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 :

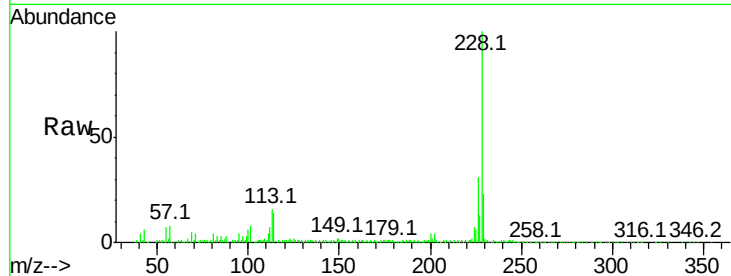
Tot Ion:228 Resp: 250780

Ion Ratio Lower Upper

228 100

226 30.7 24.9 37.3

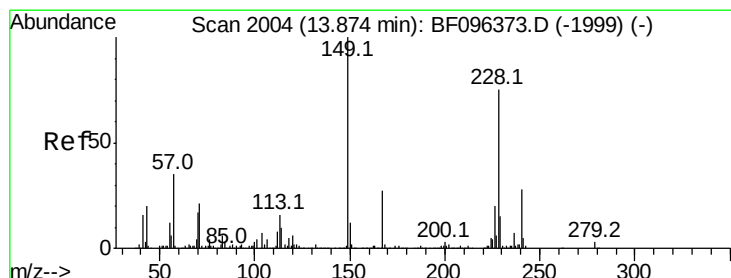
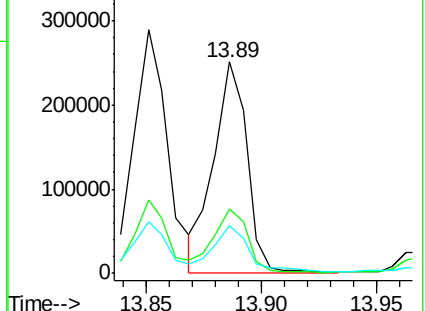
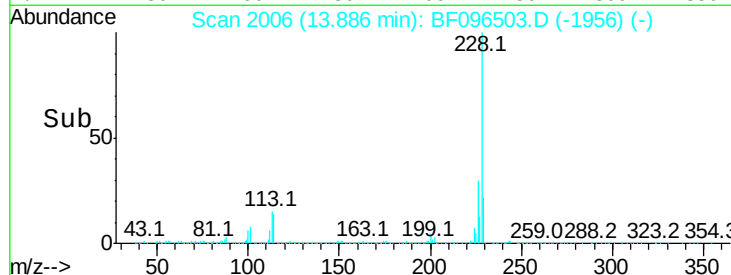
229 22.7 15.8 23.6



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

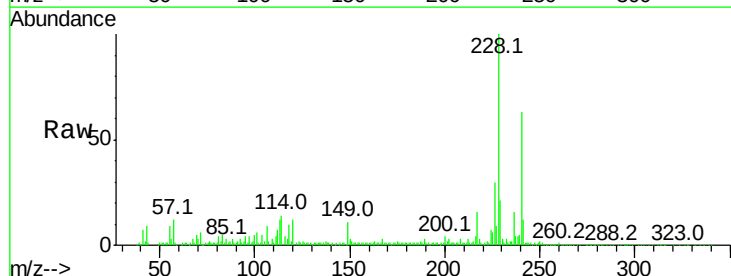
Tgt Ion:149 Resp: 20897

Ion Ratio Lower Upper

149 100

167 30.5 21.0 31.4

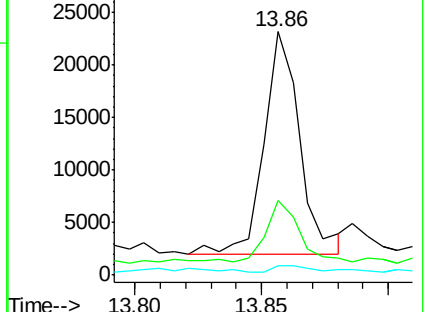
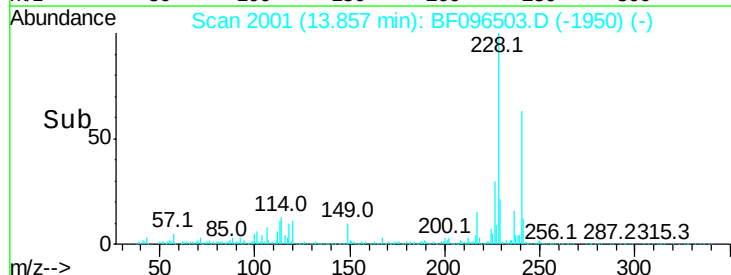
279 3.8 1.9 2.9#

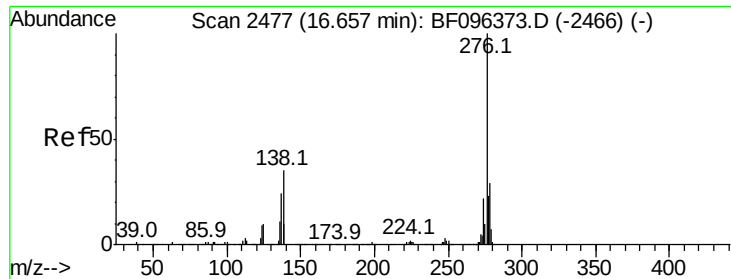


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

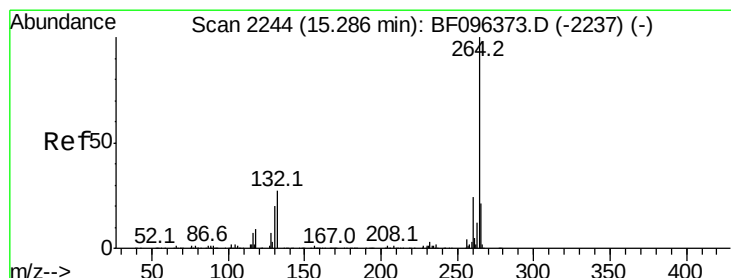
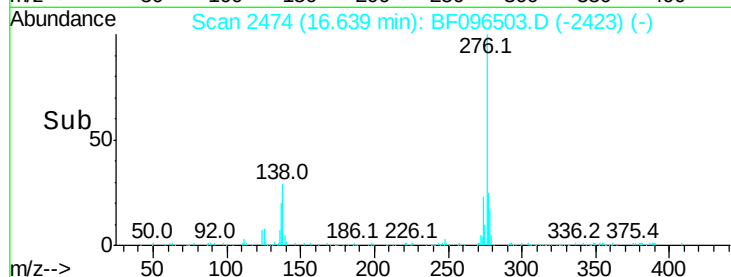
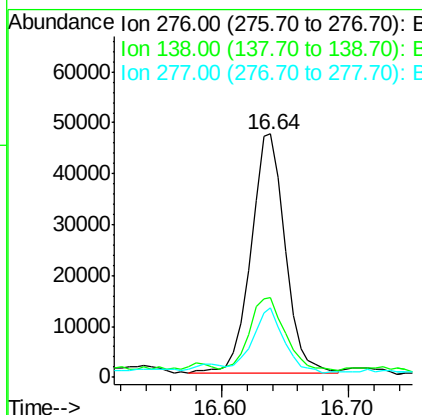
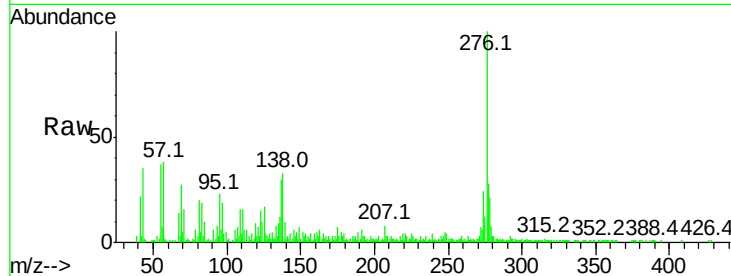




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 9.07 ng
 RT: 16.64 min Scan# 2474
 Delta R.T. -0.00 min
 Lab File: BF096503.D
 Acq: 6 Jul 2017 1:02

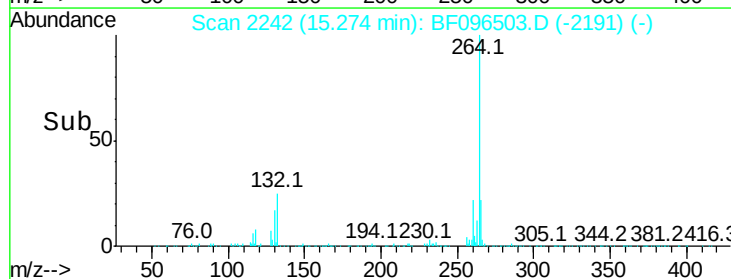
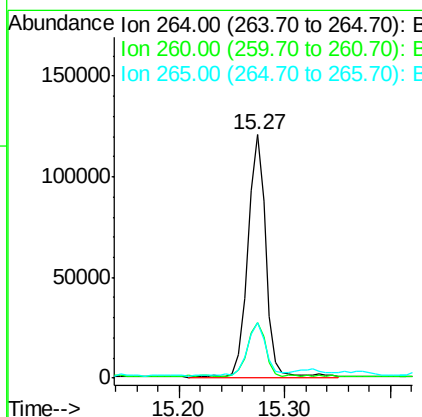
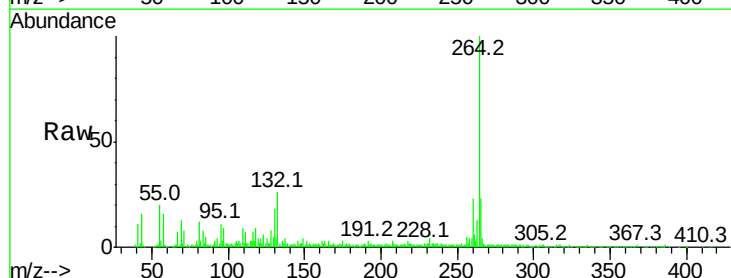
Instrument :
 BNA_F
 ClientSampleId :

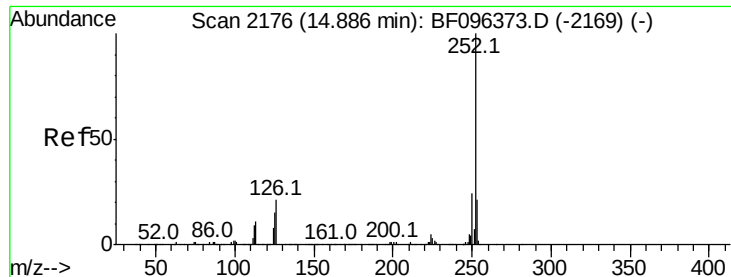
Tot Ion	Ratio	Lower	Upper
276	100		
138	31.9	27.8	41.6
277	24.3	20.2	30.4



#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: 35.94 ng

RT: 14.87 min Scan# 2174

Delta R.T. -0.00 min

Lab File: BF096503.D

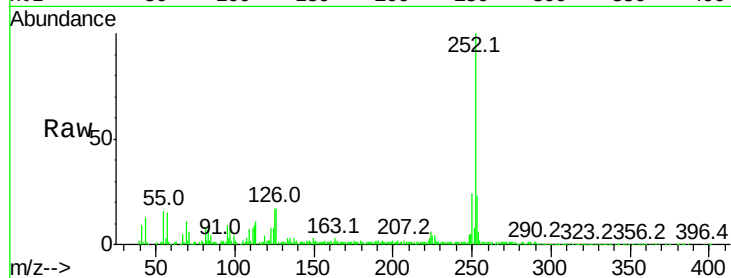
Acq: 6 Jul 2017 1:02

Instrument :

BNA_F

ClientSampleId :

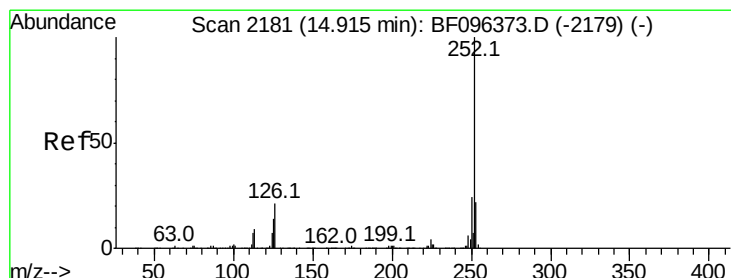
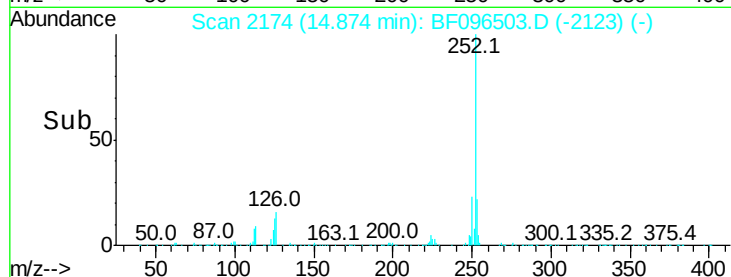
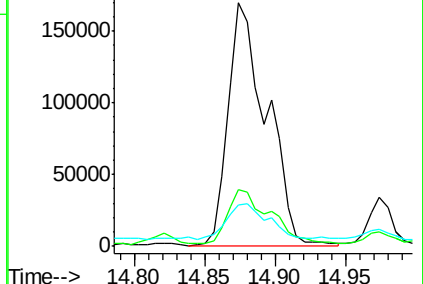
Tot Ion:	252	Resp:	321751
Ion	Ratio	Lower	Upper
252	100		
253	23.5	18.1	27.1
125	17.2	9.8	14.8#



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: 40.18 ng

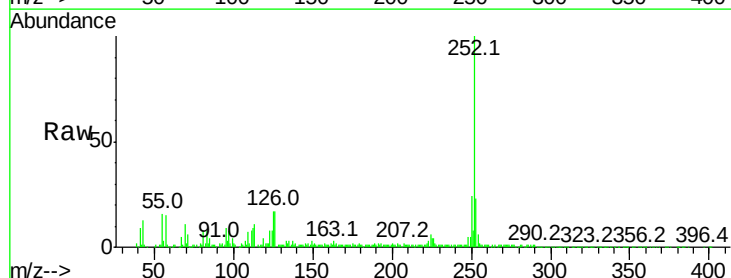
RT: 14.87 min Scan# 2174

Delta R.T. -0.03 min

Lab File: BF096503.D

Acq: 6 Jul 2017 1:02

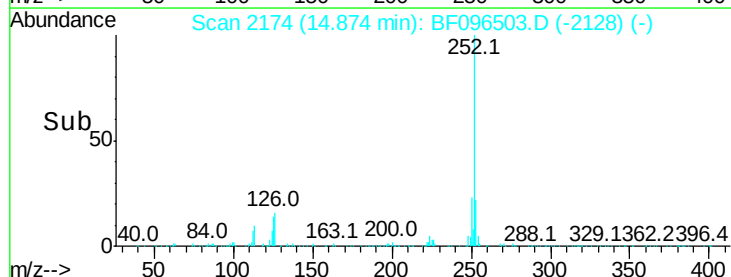
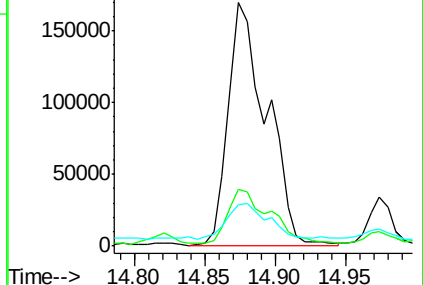
Tgt Ion:	252	Resp:	321751
Ion	Ratio	Lower	Upper
252	100		
253	23.5	18.4	27.6
125	17.2	13.1	19.7

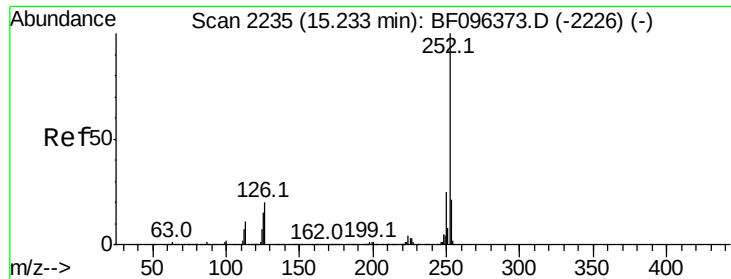


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

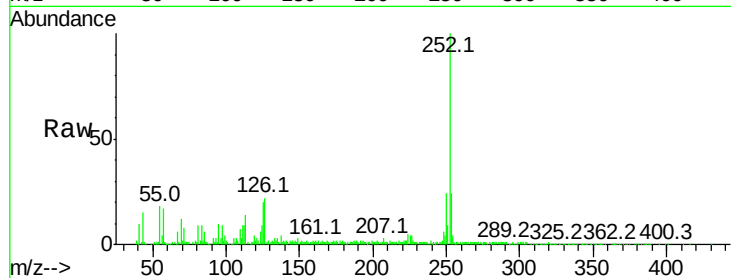




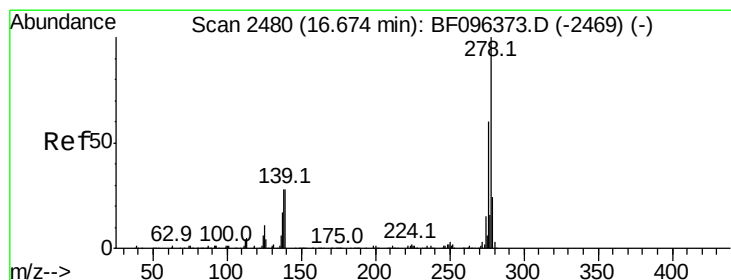
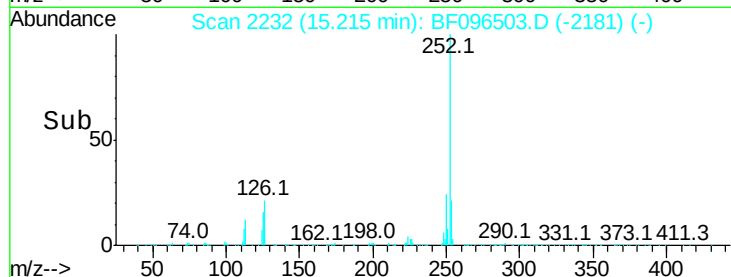
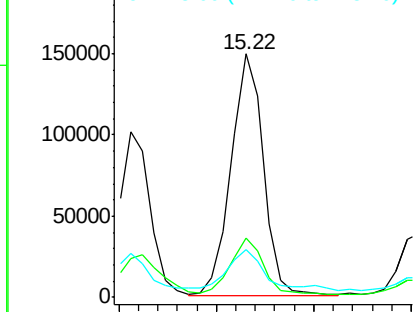
#89
Benzo(a)pyrene
Concen: 21.36 ng
RT: 15.22 min Scan# 2232
Delta R.T. -0.00 min
Lab File: BF096503.D
Acq: 6 Jul 2017 1:02

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.5	17.5	26.3
125	19.5	11.0	16.4

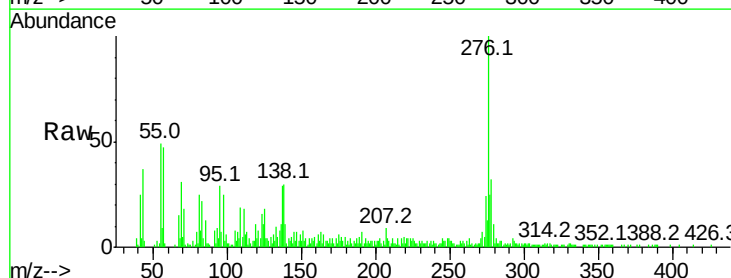


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

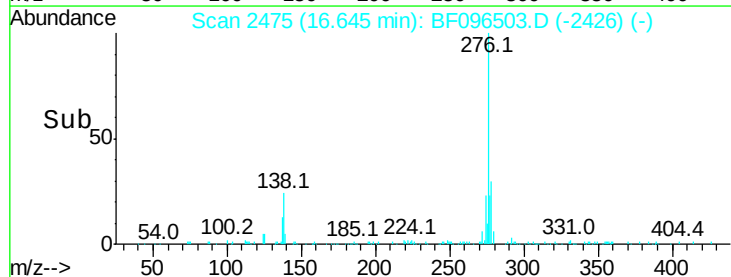
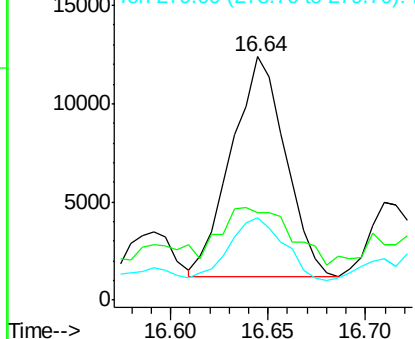


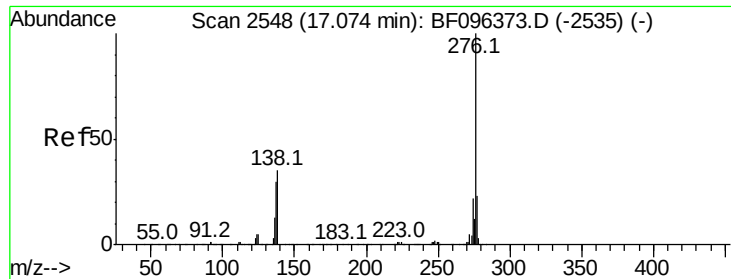
#90
Dibenzo(a,h)anthracene
Concen: 3.42 ng
RT: 16.64 min Scan# 2475
Delta R.T. -0.01 min
Lab File: BF096503.D
Acq: 6 Jul 2017 1:02

Tgt Ion	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

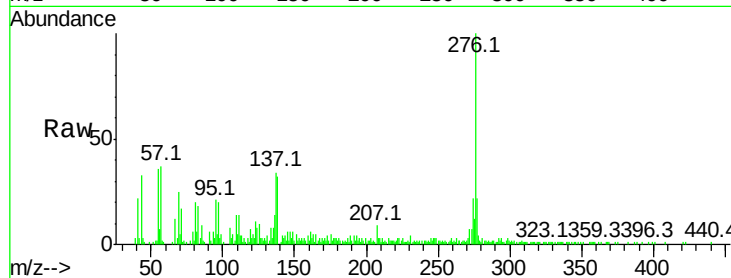




#91
 Benzo(a,h,i)perylene
 Concen: 12.98 ng
 RT: 17.04 min Scan# 2543
 Delta R.T. -0.01 min
 Lab File: BF096503.D
 Acq: 6 Jul 2017 1:02

Instrument :
 BNA_F
 ClientSampleId :

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

