

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062117\
 Data File : BF096097.D
 Acq On : 21 Jun 2017 22:00
 Operator : SJ/MA
 Sample : I3736-03 5X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jun 22 01:06:57 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 20 16:05:47 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.29	152	71828	20.00	ng	0.00
21) Naphthalene-d8	9.32	136	283933	20.00	ng	0.00
38) Acenaphthene-d10	12.14	164	121499	20.00	ng	0.00
63) Phenanthrene-d10	14.54	188	190708	20.00	ng	0.00
75) Chrysene-d12	18.27	240	140753	20.00	ng	0.00
86) Perylene-d12	19.94	264	110565	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.23	112	72884	16.17	ng	0.05
7) Phenol-d6	6.92	99	104761	19.41	ng	0.04
23) Nitrobenzene-d5	8.23	82	57726	12.63	ng	0.01
41) 2,4,6-Tribromophenol	13.46	330	11557	10.75	ng	0.01
44) 2-Fluorobiphenyl	11.10	172	136202	15.60	ng	0.00
78) Terphenyl-d14	16.92	244	87898	15.50	ng	0.00

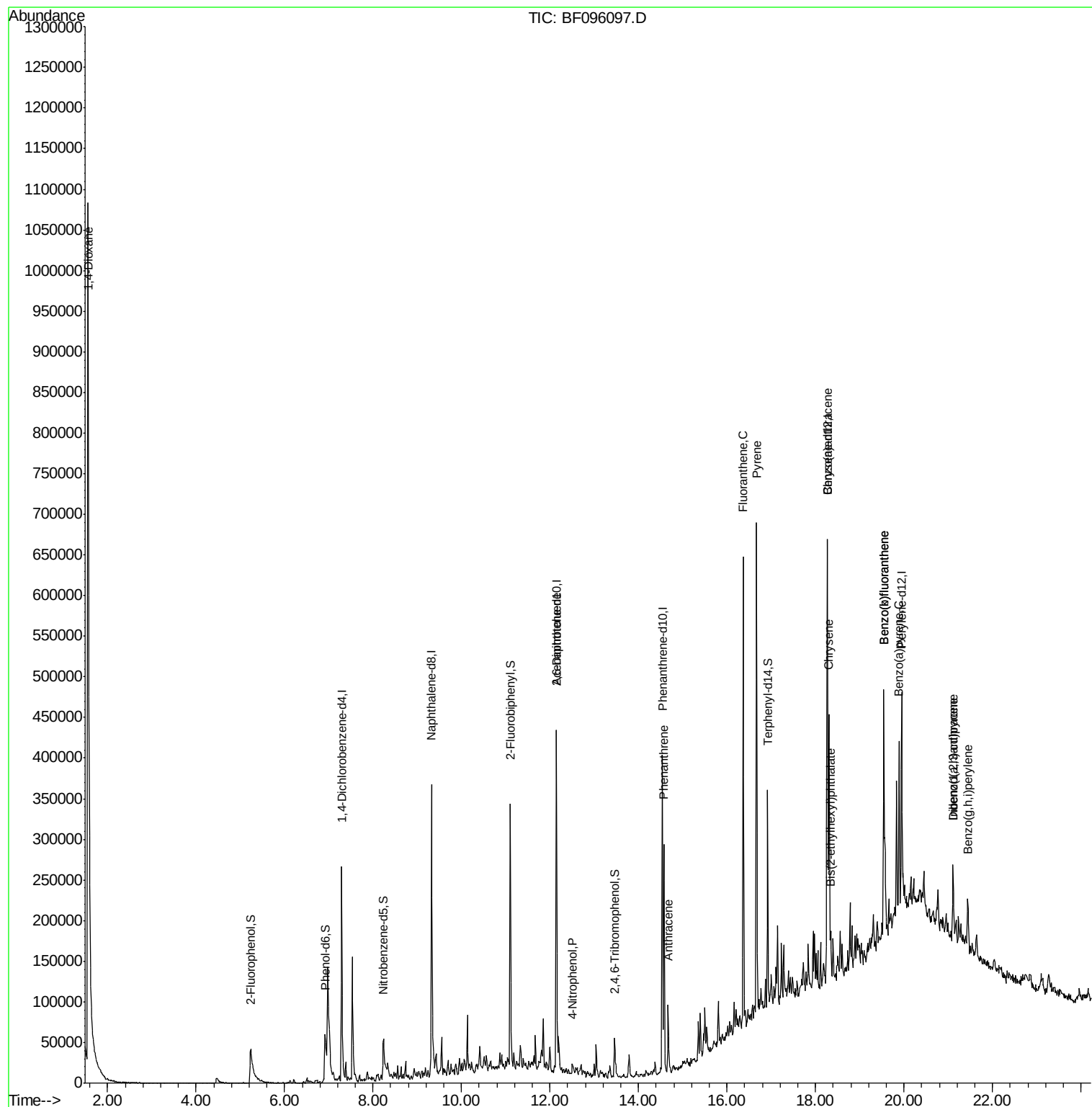
Target Compounds						Qvalue
2) 1,4-Dioxane	1.56	88	58586	27.32	ng	# 21
50) 2,6-Dinitrotoluene	12.14	165	15618	7.76	ng	# 31
55) 4-Nitrophenol	12.50	139	3227	6.85	ng	# 50
70) Phenanthrene	14.57	178	163106	14.82	ng	98
71) Anthracene	14.67	178	57492	5.00	ng	99
74) Fluoranthene	16.37	202	310341	28.50	ng	98
77) Pyrene	16.67	202	273108	26.00	ng	96
80) Benzo(a)anthracene	18.26	228	175441	21.44	ng	97
82) Chrysene	18.30	228	163438	19.98	ng	98
83) Bis(2-ethylhexyl)phthalate	18.34	149	16067	2.48	ng	# 91
85) Indeno(1,2,3-cd)pyrene	21.11	276	50274	7.18	ng	93
87) Benzo(b)fluoranthene	19.54	252	204794	29.58	ng	# 97
88) Benzo(k)fluoranthene	19.54	252	204794	30.95	ng	98
89) Benzo(a)pyrene	19.89	252	95872	15.07	ng	97
90) Dibenzo(a,h)anthracene	21.10	278	16134	2.99	ng	# 86
91) Benzo(g,h,i)perylene	21.44	276	42383	7.70	ng	# 94

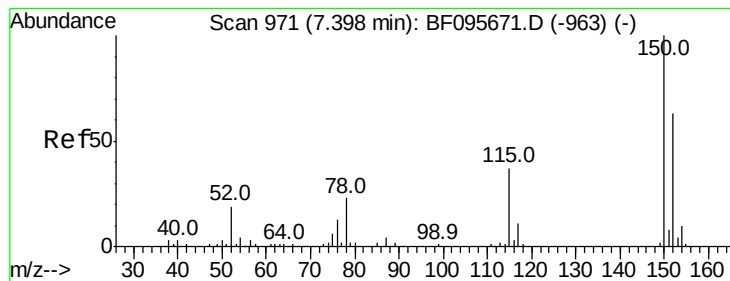
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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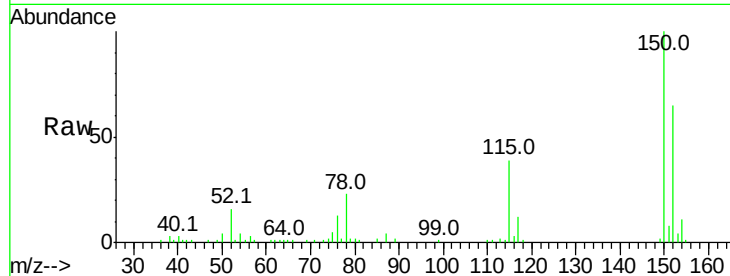


#1

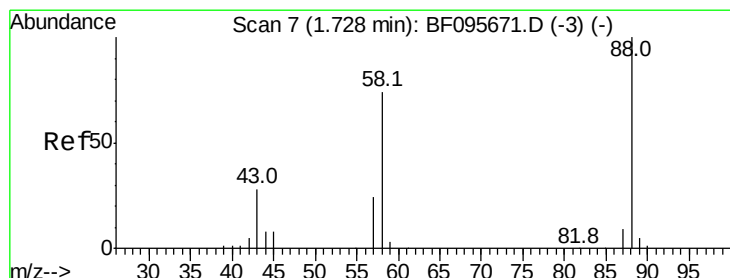
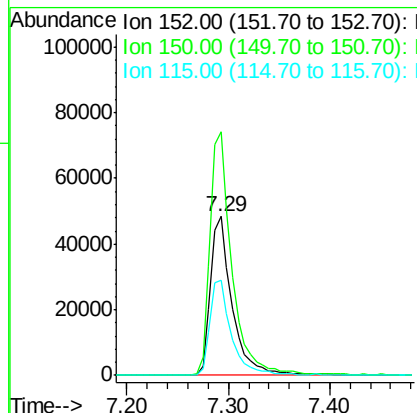
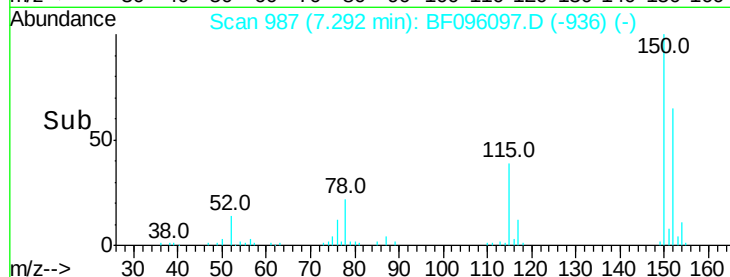
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.29 min Scan# 987
Delta R.T. 0.00 min
Lab File: BF096097.D
Acq: 21 Jun 2017 22:00

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 71828
Ion Ratio Lower Upper
152 100
150 153.0 126.2 189.2
115 60.2 52.2 78.2



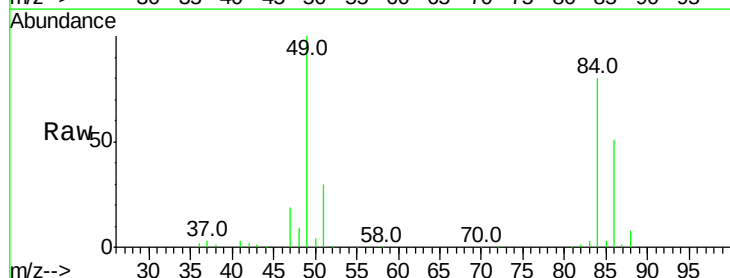
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



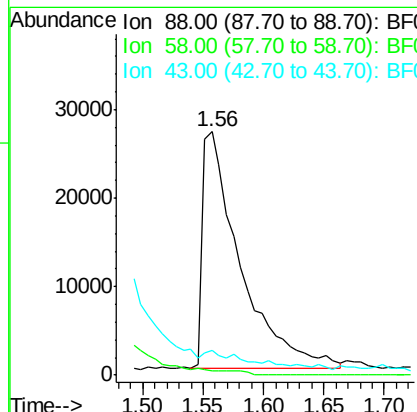
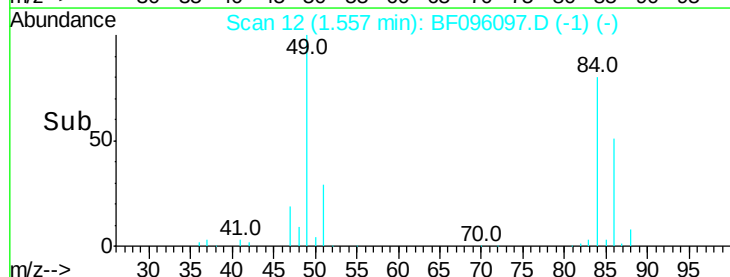
#2

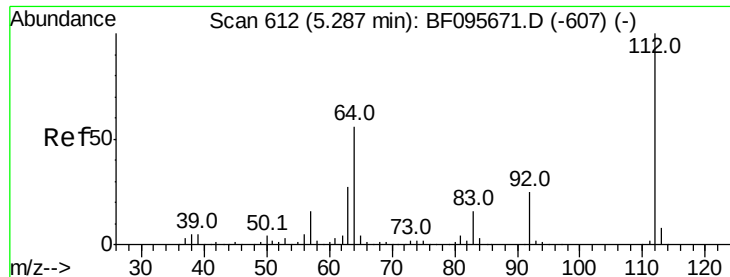
1,4-Dioxane
Concen: 27.32 ng
RT: 1.56 min Scan# 12
Delta R.T. -0.05 min
Lab File: BF096097.D
Acq: 21 Jun 2017 22:00

Tgt Ion: 88 Resp: 58586
Ion Ratio Lower Upper
88 100
58 0.0 61.4 92.0#
43 0.0 23.4 35.0#



Abundance Ion 88.00 (87.70 to 88.70): BF0
Ion 58.00 (57.70 to 58.70): BF0
Ion 43.00 (42.70 to 43.70): BF0

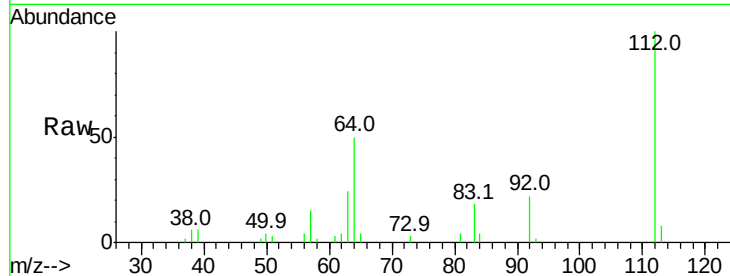




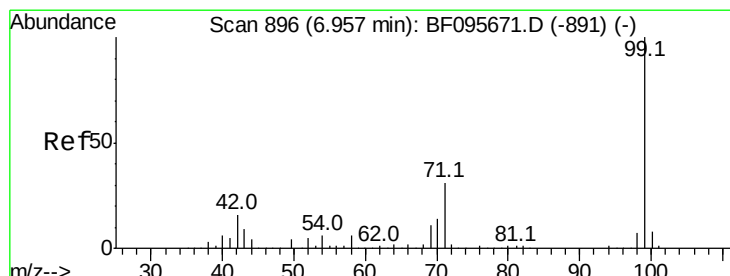
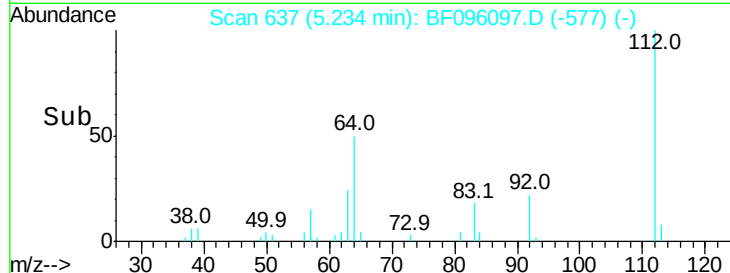
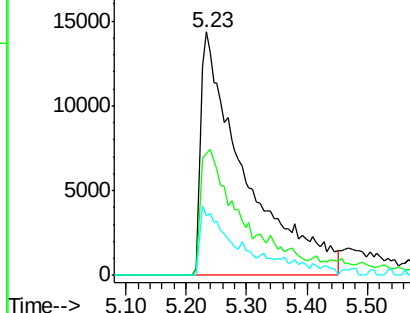
#5
 2-Fluorophenol
 Concen: 16.17 ng
 RT: 5.23 min Scan# 637
 Delta R.T. 0.05 min
 Lab File: BF096097.D
 Acq: 21 Jun 2017 22:00

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:	112	Resp:	72884
Ion	Ratio	Lower	Upper
112	100		
64	49.9	46.0	69.0
63	24.2	23.4	35.0

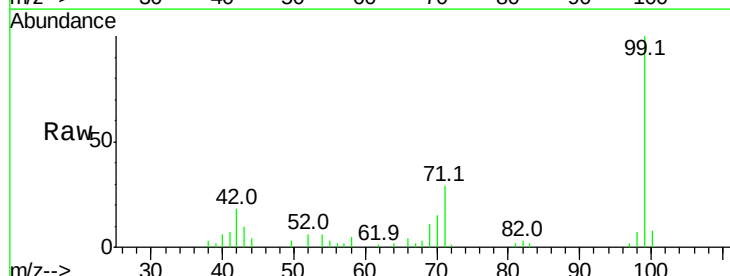


Abundance Ion 112.00 (111.70 to 112.70): E
 Ion 64.00 (63.70 to 64.70): BF0
 Ion 63.00 (62.70 to 63.70): BF0

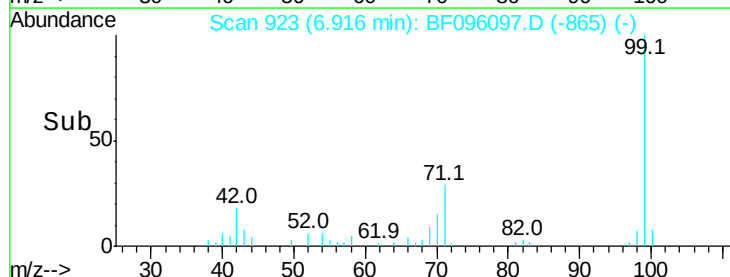
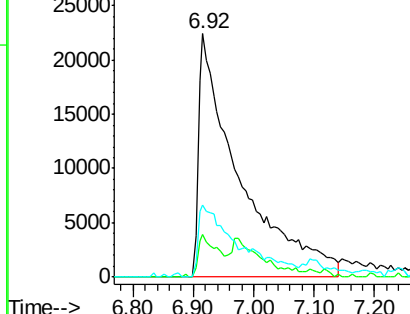


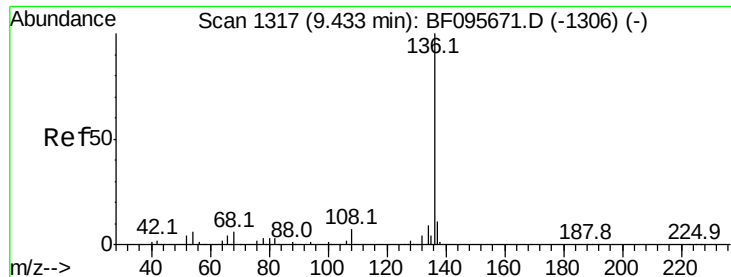
#7
 Phenol-d6
 Concen: 19.41 ng
 RT: 6.92 min Scan# 923
 Delta R.T. 0.04 min
 Lab File: BF096097.D
 Acq: 21 Jun 2017 22:00

Tgt Ion:	99	Resp:	104761
Ion	Ratio	Lower	Upper
99	100		
42	17.7	13.5	20.3
71	29.4	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

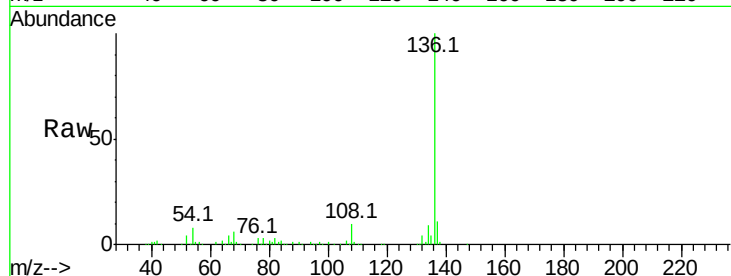




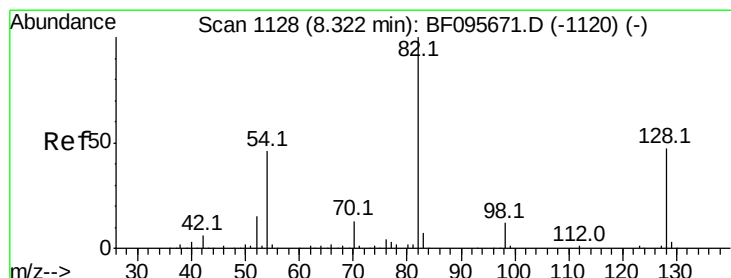
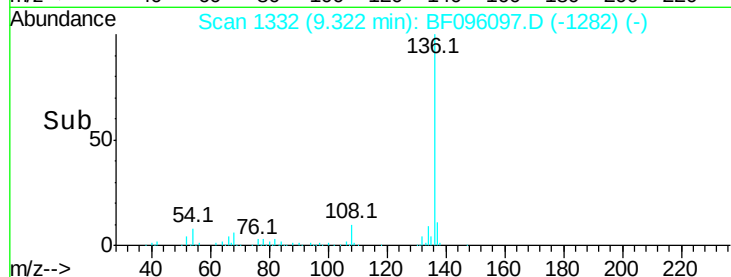
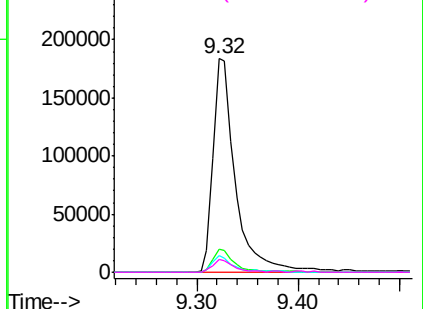
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 9.32 min Scan# 1332
Delta R.T. -0.01 min
Lab File: BF096097.D
Acq: 21 Jun 2017 22:00

Instrument :
BNA_F
ClientSampleId :

Tot Ion:136	Resp:	283933
Ion Ratio	Lower	Upper
136	100	
137	10.7	8.5 12.7
54	7.7	4.9 7.3#
68	6.0	4.1 6.1

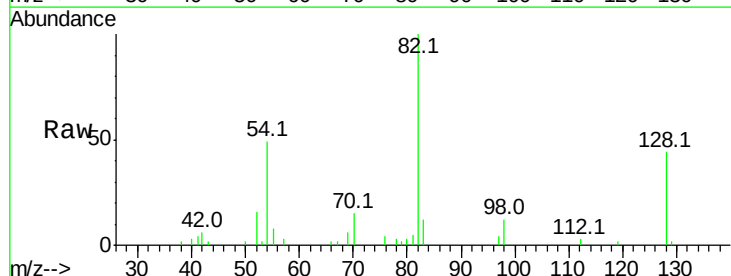


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

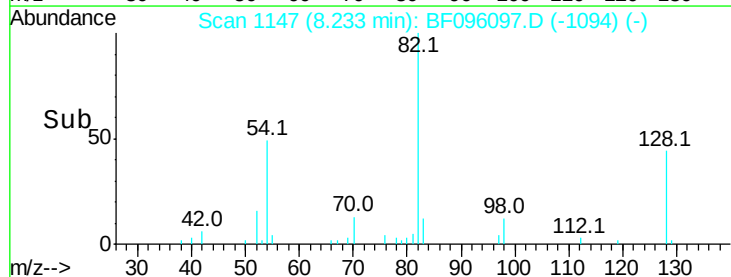
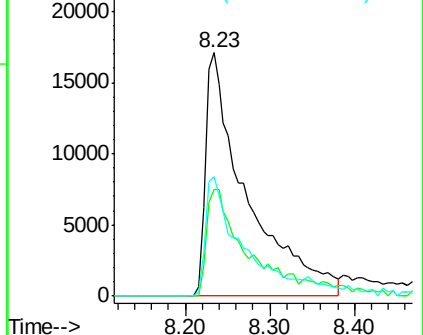


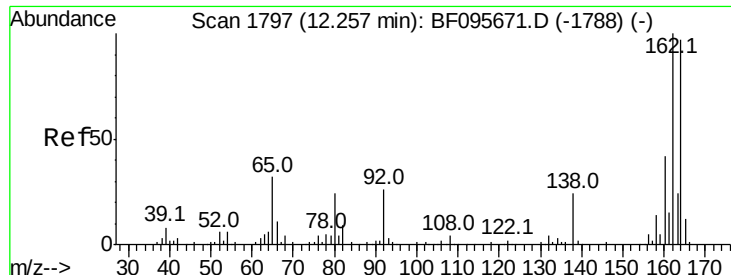
#23
Nitrobenzene-d5
Concen: 12.63 ng
RT: 8.23 min Scan# 1147
Delta R.T. 0.01 min
Lab File: BF096097.D
Acq: 21 Jun 2017 22:00

Tgt Ion: 82	Resp:	57726
Ion Ratio	Lower	Upper
82	100	
128	43.7	34.0 51.0
54	49.3	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

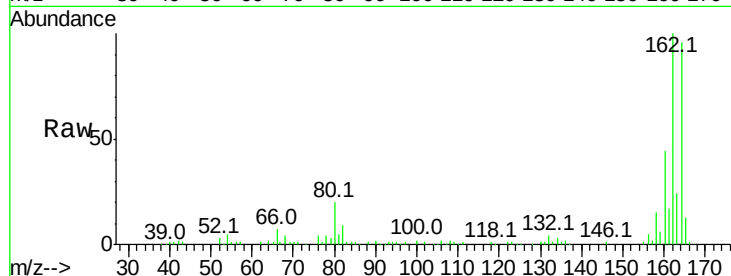




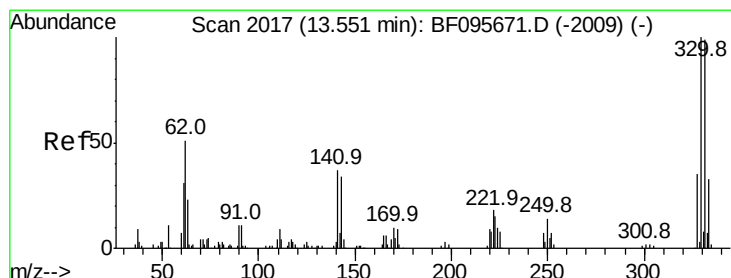
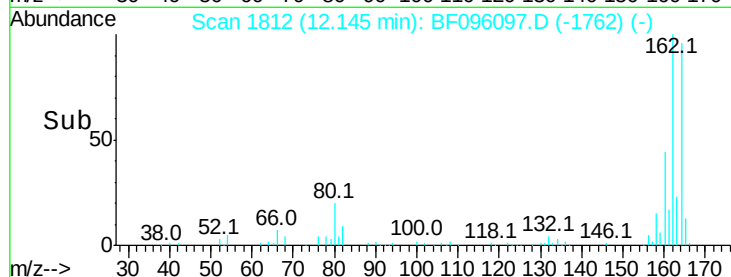
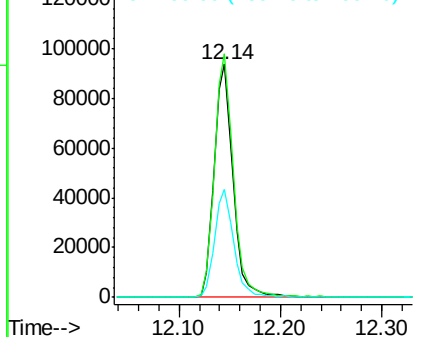
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.14 min Scan# 1812
Delta R.T. -0.01 min
Lab File: BF096097.D
Acq: 21 Jun 2017 22:00

Instrument :
BNA_F
ClientSampleId :

Tot Ion:164 Resp: 121499
Ion Ratio Lower Upper
164 100
162 104.4 82.6 123.8
160 46.4 36.2 54.2

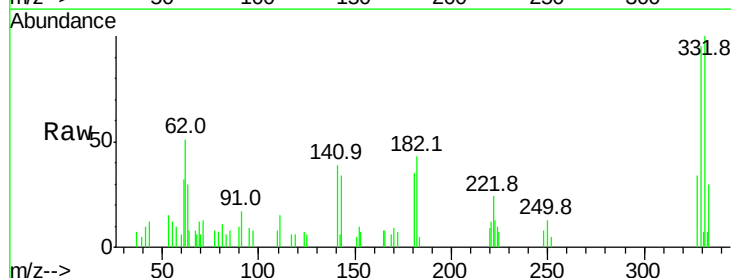


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

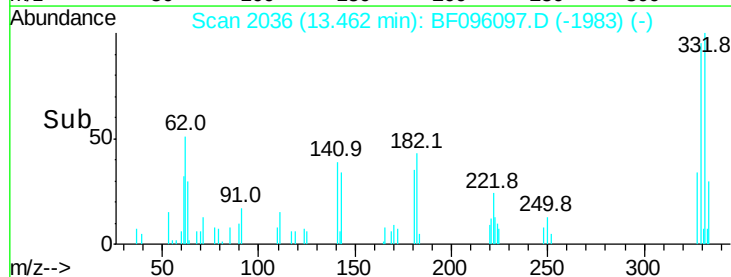
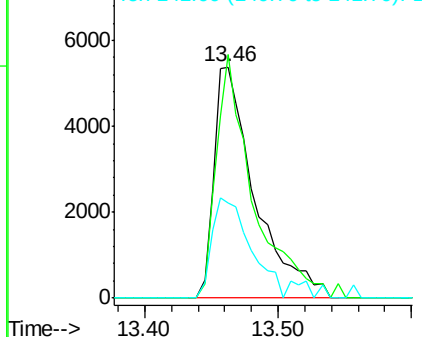


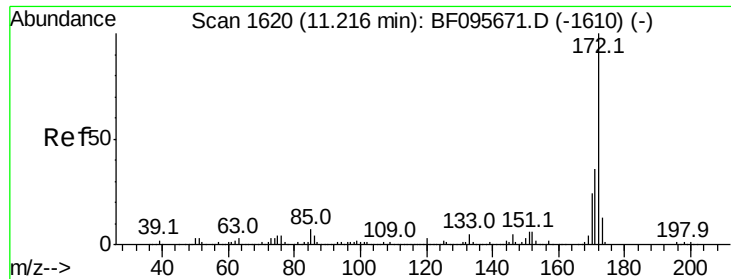
#41
2,4,6-Tribromophenol
Concen: 10.75 ng
RT: 13.46 min Scan# 2036
Delta R.T. 0.01 min
Lab File: BF096097.D
Acq: 21 Jun 2017 22:00

Tgt Ion:330 Resp: 11557
Ion Ratio Lower Upper
330 100
332 95.6 76.6 115.0
141 40.6 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

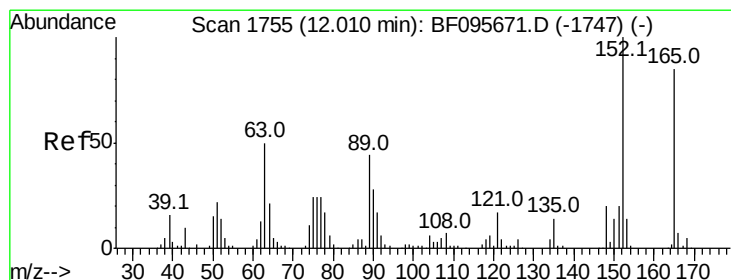
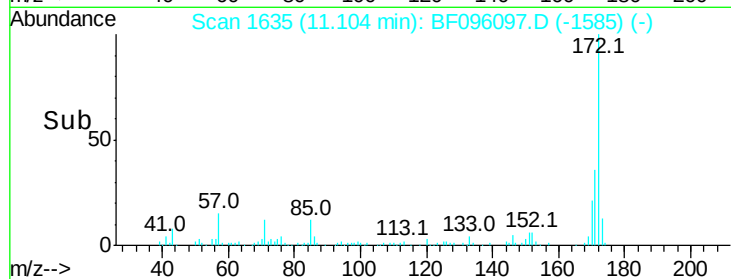
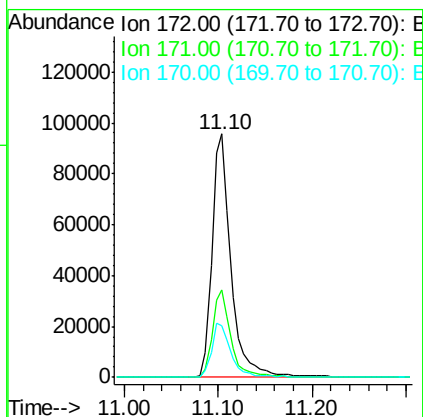
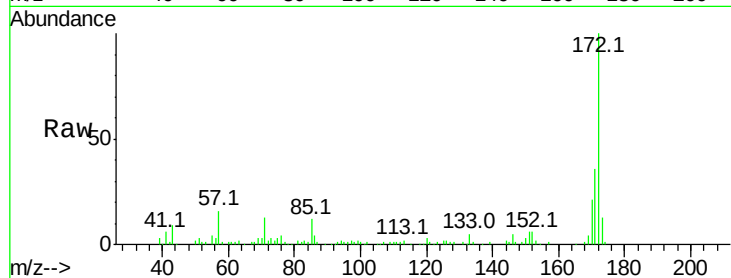




#44
2-Fluorobiphenyl
Concen: 15.60 ng
RT: 11.10 min Scan# 1635
Delta R.T. -0.01 min
Lab File: BF096097.D
Acq: 21 Jun 2017 22:00

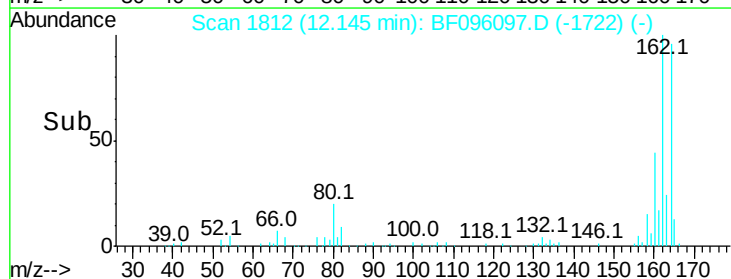
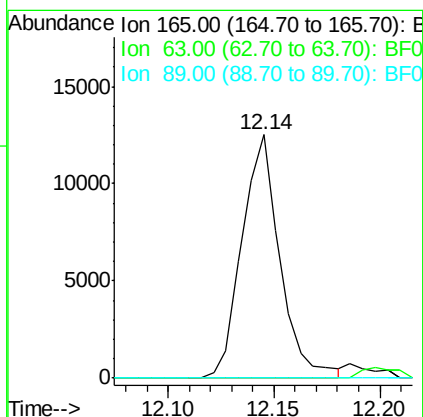
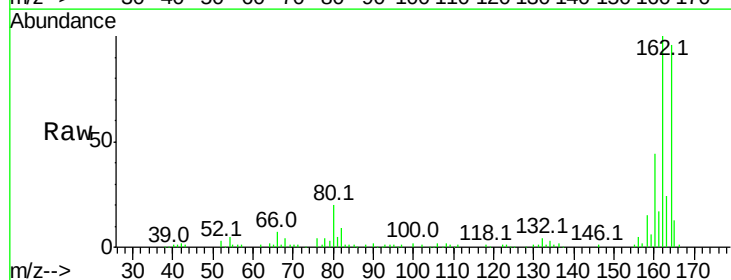
Instrument :
BNA_F
ClientSampleId :

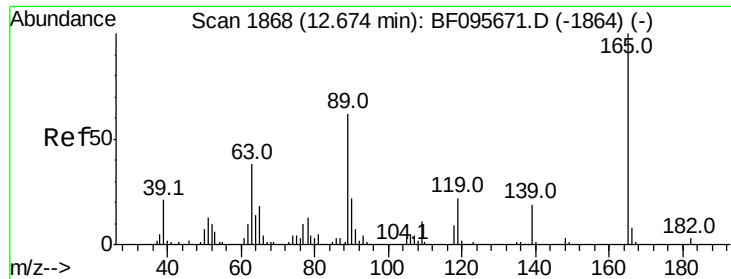
Tot Ion:172 Resp: 136202
Ion Ratio Lower Upper
172 100
171 35.9 29.6 44.4
170 21.3 19.8 29.8



#50
2,6-Dinitrotoluene
Concen: 7.76 ng
RT: 12.14 min Scan# 1812
Delta R.T. 0.23 min
Lab File: BF096097.D
Acq: 21 Jun 2017 22:00

Tgt Ion:165 Resp: 15618
Ion Ratio Lower Upper
165 100
63 0.0 34.3 51.5#
89 0.0 37.1 55.7#

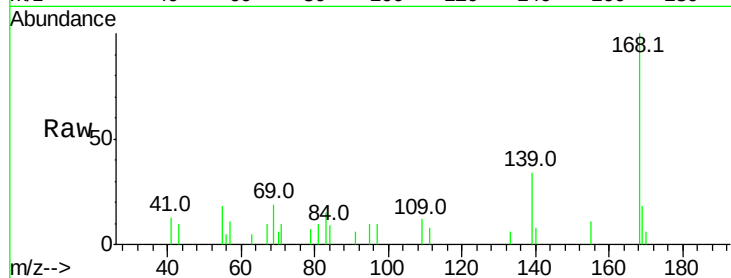




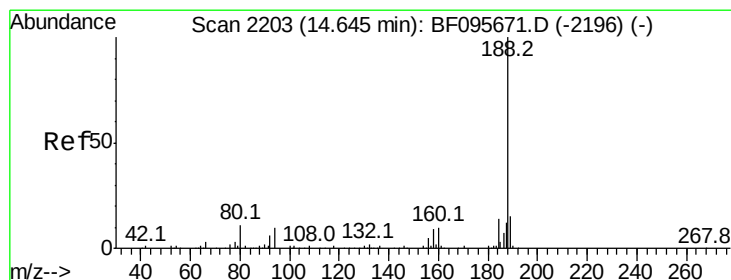
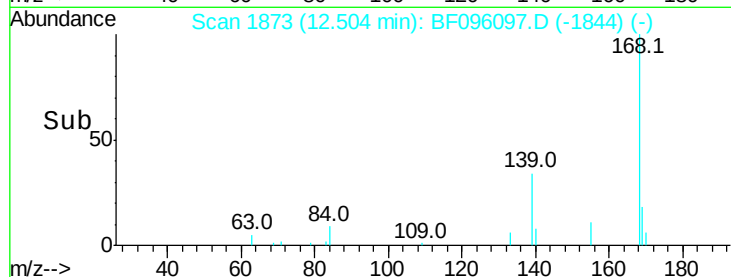
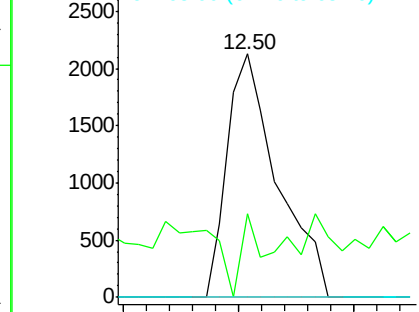
#55
4-Nitrophenol
Concen: 6.85 ng
RT: 12.50 min Scan# 1873
Delta R.T. -0.13 min
Lab File: BF096097.D
Acq: 21 Jun 2017 22:00

Instrument :
BNA_F
ClientSampled :

Tot Ion:139 Resp: 3227
Ion Ratio Lower Upper
139 100
109 34.4 34.1 74.1
65 0.0 31.4 71.4#

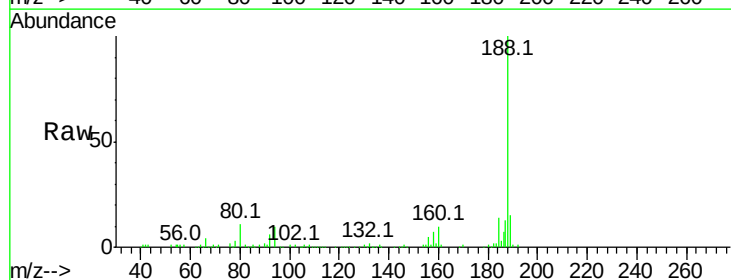


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF0

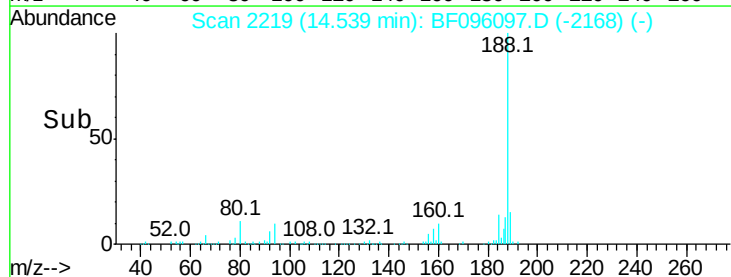
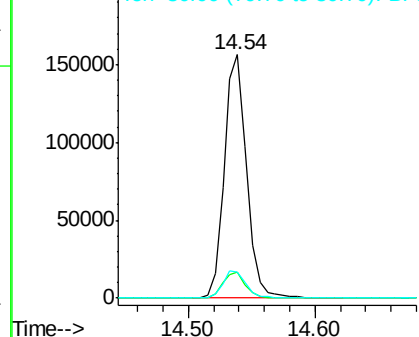


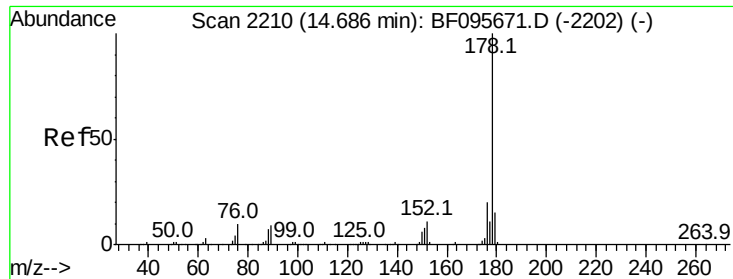
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 14.54 min Scan# 2219
Delta R.T. 0.00 min
Lab File: BF096097.D
Acq: 21 Jun 2017 22:00

Tgt Ion:188 Resp: 190708
Ion Ratio Lower Upper
188 100
94 10.5 9.4 14.2
80 10.9 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

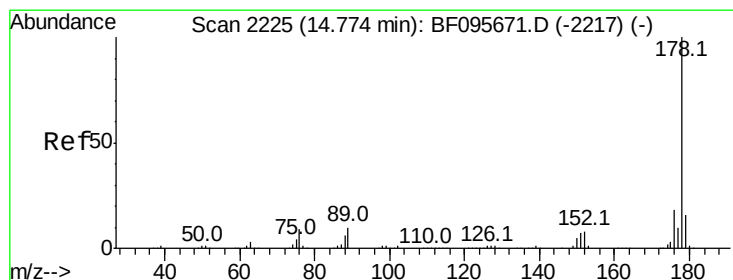
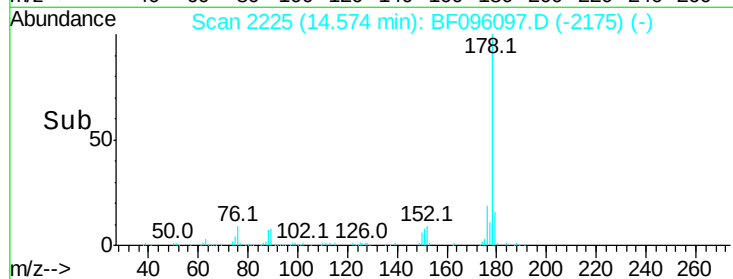
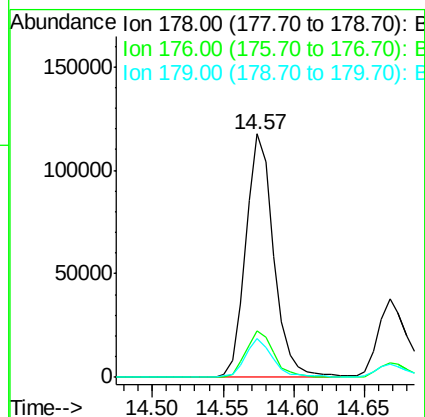
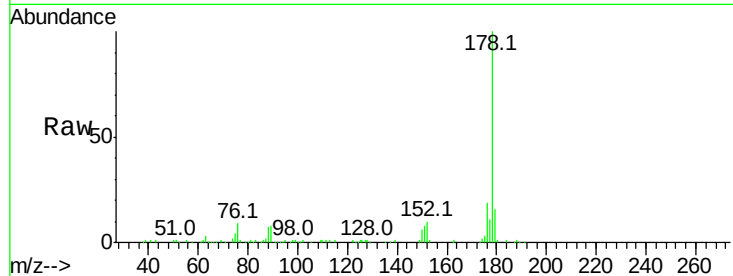




#70
 Phenanthrene
 Concen: 14.82 ng
 RT: 14.57 min Scan# 2225
 Delta R.T. -0.01 min
 Lab File: BF096097.D
 Acq: 21 Jun 2017 22:00

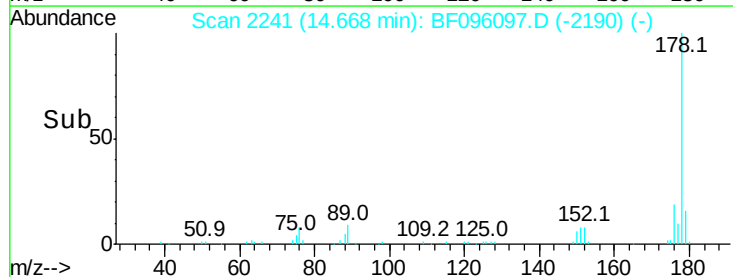
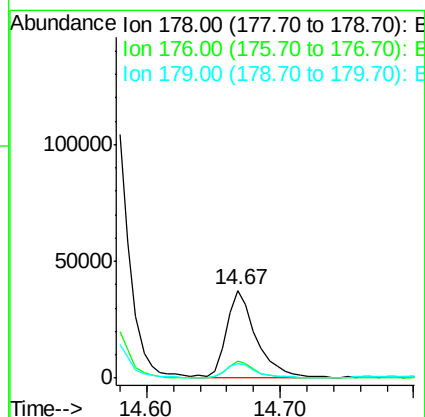
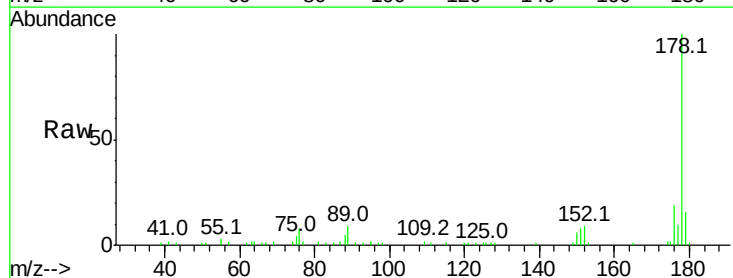
Instrument :
 BNA_F
 ClientSampleId :

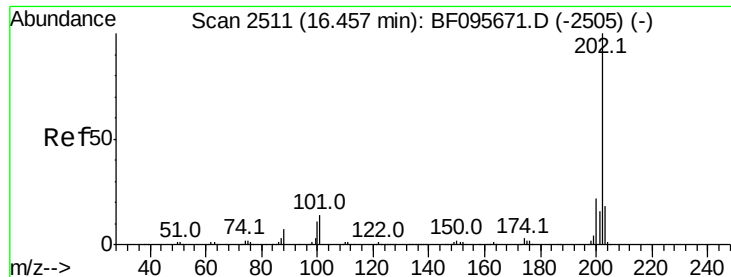
Tot Ion	Ratio	Lower	Upper
178	100		
176	19.3	16.2	24.4
179	16.1	12.6	19.0



#71
 Anthracene
 Concen: 5.00 ng
 RT: 14.67 min Scan# 2241
 Delta R.T. 0.00 min
 Lab File: BF096097.D
 Acq: 21 Jun 2017 22:00

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.8	23.8
179	16.3	12.7	19.1





#74

Fluoranthene

Concen: 28.50 ng

RT: 16.37 min Scan# 2530

Delta R.T. 0.00 min

Lab File: BF096097.D

Acq: 21 Jun 2017 22:00

Instrument :

BNA_F

ClientSampleId :

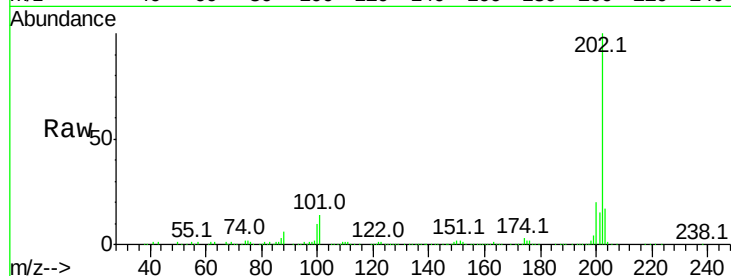
Tot Ion:202 Resp: 310341

Ion Ratio Lower Upper

202 100

101 13.5 0.0 33.2

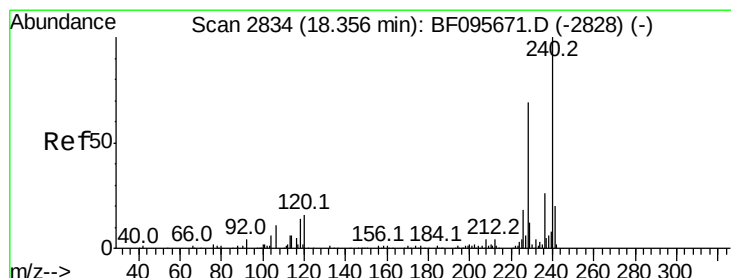
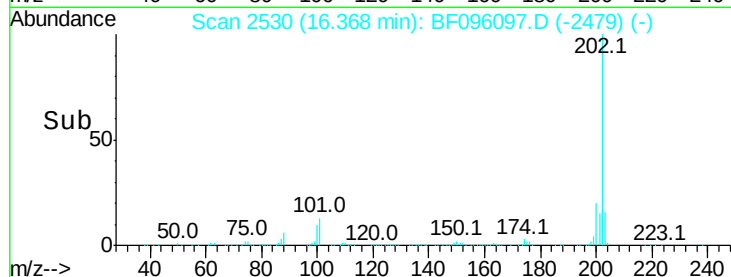
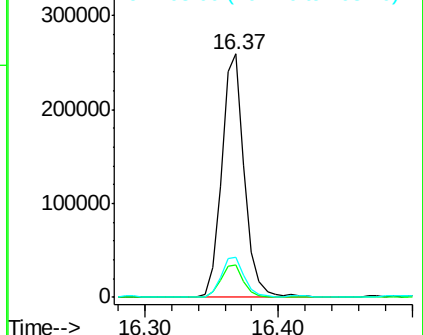
203 16.6 0.0 38.1



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: 18.27 min Scan# 2854

Delta R.T. 0.00 min

Lab File: BF096097.D

Acq: 21 Jun 2017 22:00

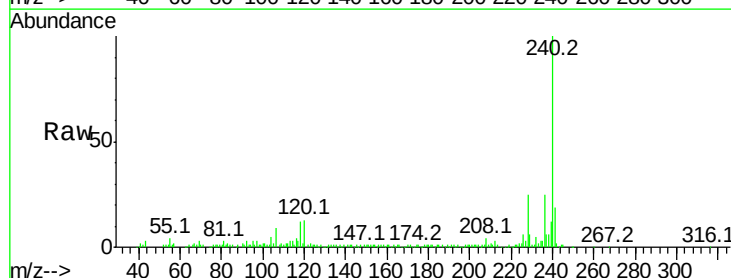
Tgt Ion:240 Resp: 140753

Ion Ratio Lower Upper

240 100

120 13.2 5.8 8.8#

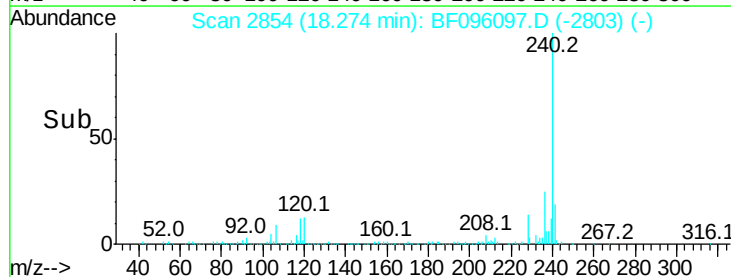
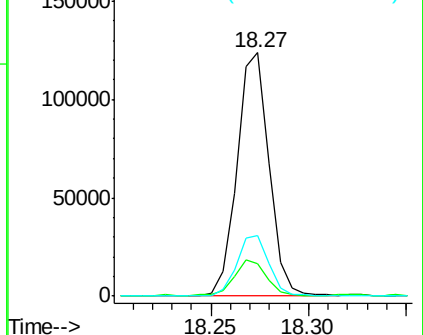
236 24.8 20.5 30.7

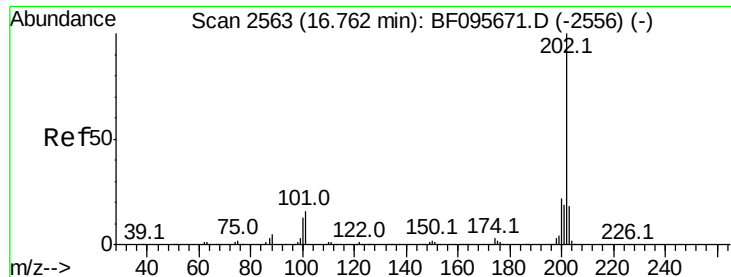


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 26.00 ng

RT: 16.67 min Scan# 2581

Delta R.T. 0.00 min

Lab File: BF096097.D

Acq: 21 Jun 2017 22:00

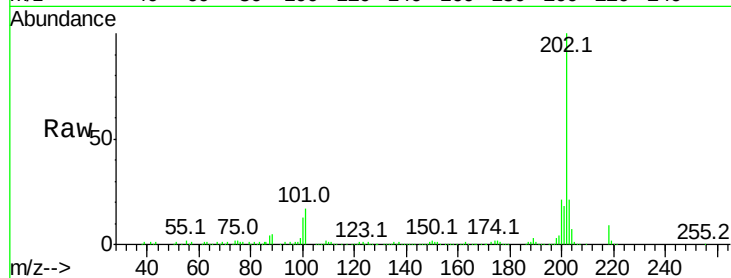
Instrument :

BNA_F

ClientSampleId :

Tot Ion:202 Resp: 273108

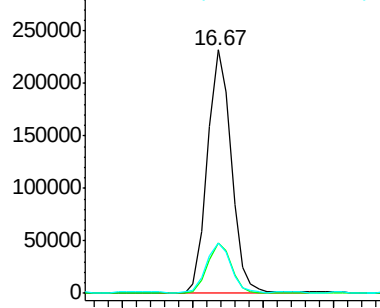
Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.6	26.4
203	20.8	14.4	21.6



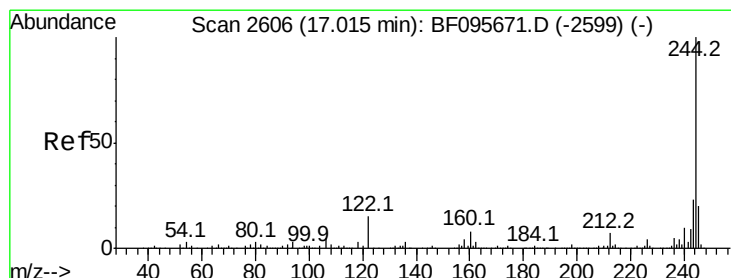
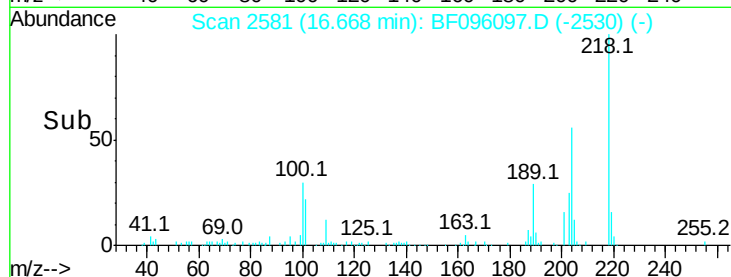
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



Time--> 16.60 16.65 16.70 16.75



#78

Terphenyl-d14

Concen: 15.50 ng

RT: 16.92 min Scan# 2624

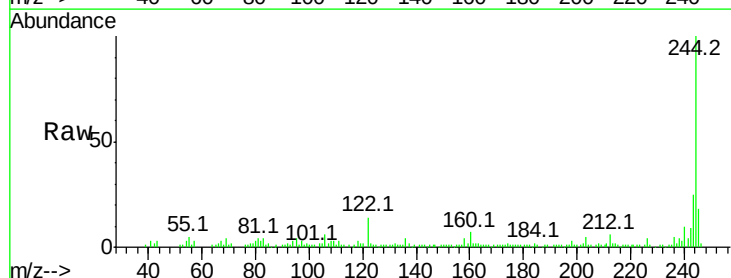
Delta R.T. -0.01 min

Lab File: BF096097.D

Acq: 21 Jun 2017 22:00

Tgt Ion:244 Resp: 87898

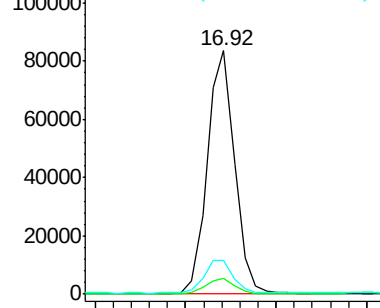
Ion	Ratio	Lower	Upper
244	100		
212	6.5	6.0	9.0
122	13.7	10.3	15.5



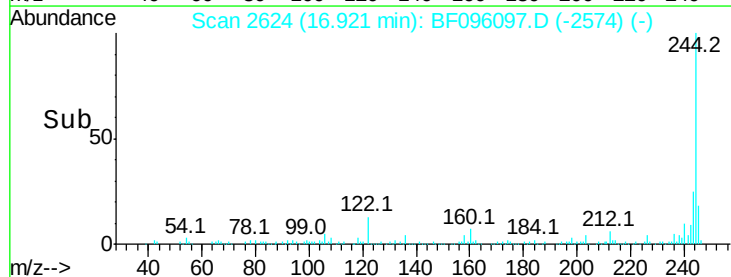
Abundance Ion 244.00 (243.70 to 244.70): E

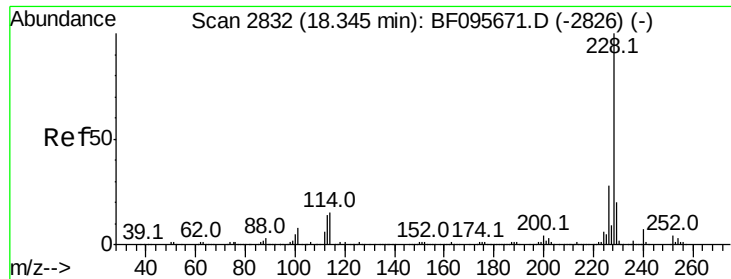
Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



Time--> 16.85 16.90 16.95





#80

Benzo(a)anthracene

Concen: 21.44 ng

RT: 18.26 min Scan# 2852

Delta R.T. 0.00 min

Lab File: BF096097.D

Acq: 21 Jun 2017 22:00

Instrument :

BNA_F

ClientSampleId :

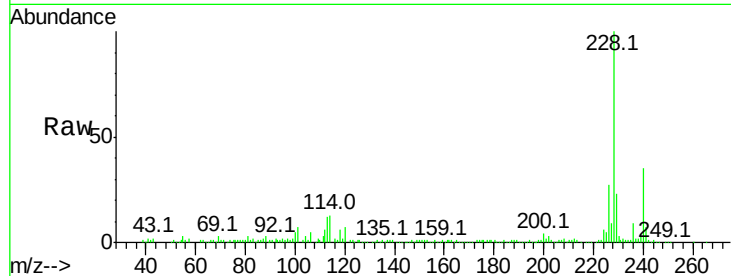
Tot Ion:228 Resp: 175441

Ion Ratio Lower Upper

228 100

226 27.1 22.6 33.8

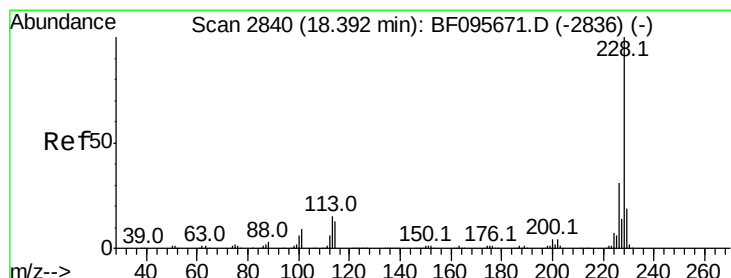
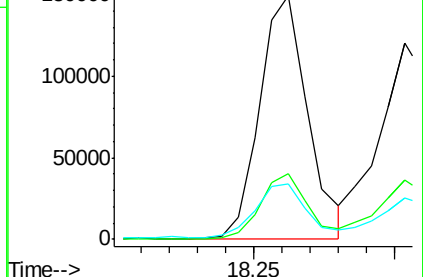
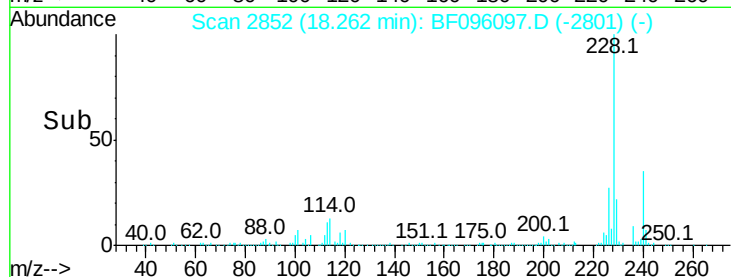
229 22.8 16.3 24.5



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: 19.98 ng

RT: 18.30 min Scan# 2859

Delta R.T. -0.01 min

Lab File: BF096097.D

Acq: 21 Jun 2017 22:00

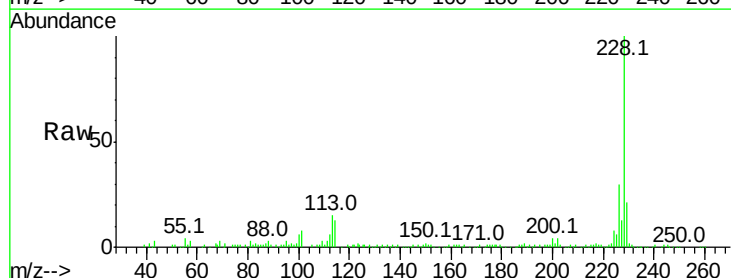
Tgt Ion:228 Resp: 163438

Ion Ratio Lower Upper

228 100

226 30.0 24.9 37.3

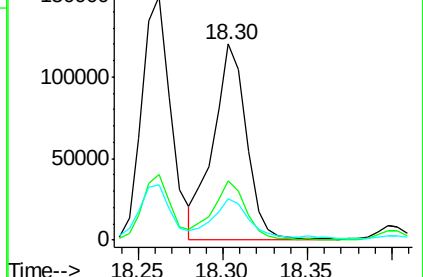
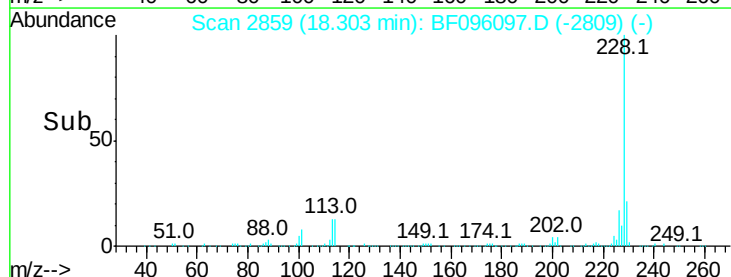
229 21.1 15.8 23.6

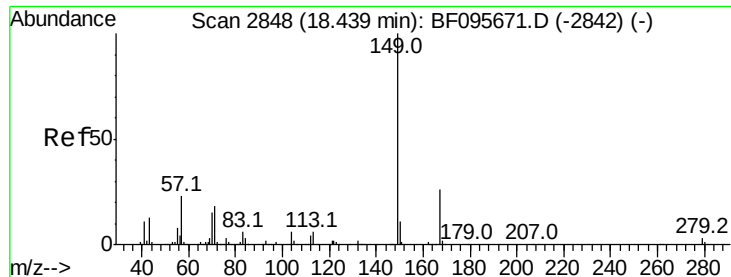


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Bis(2-ethylhexyl)phthalate

Concen: 2.48 ng

RT: 18.34 min Scan# 2866

Delta R.T. 0.00 min

Lab File: BF096097.D

Acq: 21 Jun 2017 22:00

Instrument :

BNA_F

ClientSampleId :

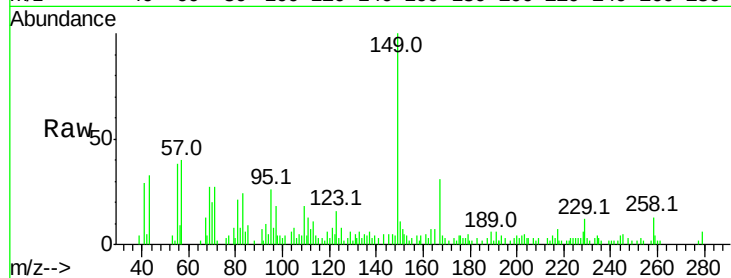
Tot Ion:149 Resp: 16067

Ion Ratio Lower Upper

149 100

167 30.9 21.0 31.4

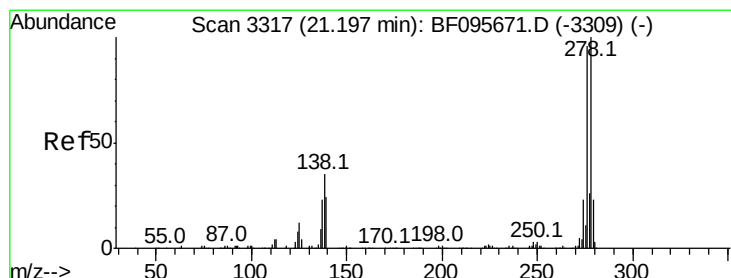
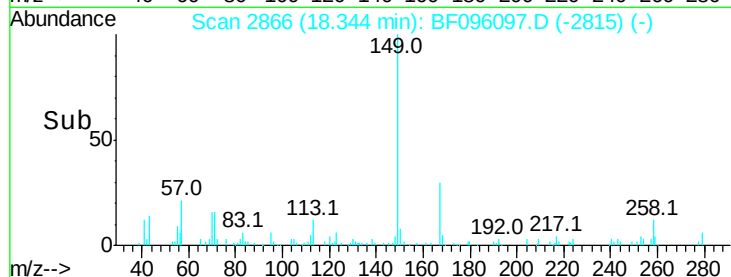
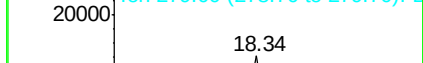
279 5.6 1.9 2.9#



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: 7.18 ng

RT: 21.11 min Scan# 3336

Delta R.T. 0.01 min

Lab File: BF096097.D

Acq: 21 Jun 2017 22:00

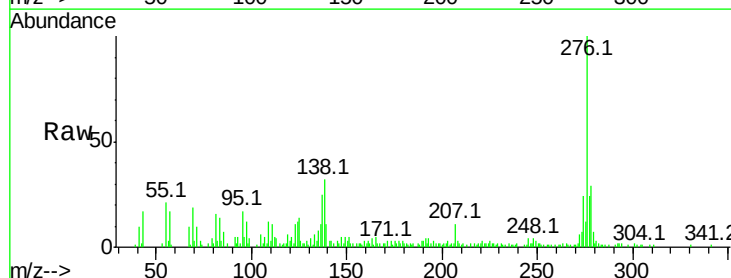
Tgt Ion:276 Resp: 50274

Ion Ratio Lower Upper

276 100

138 30.8 27.8 41.6

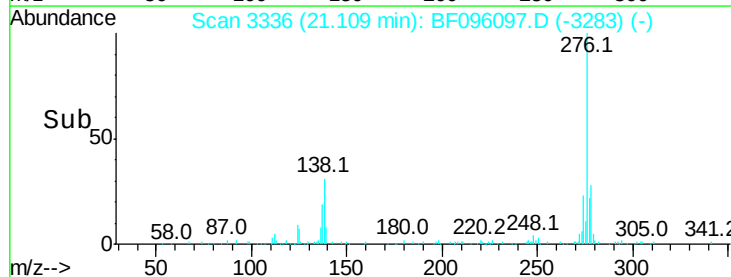
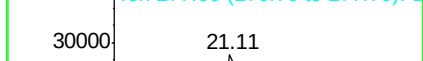
277 21.9 20.2 30.4

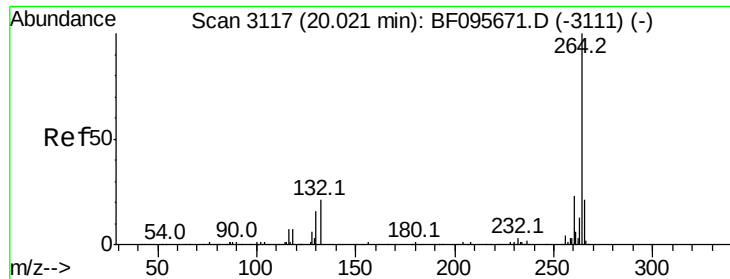


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



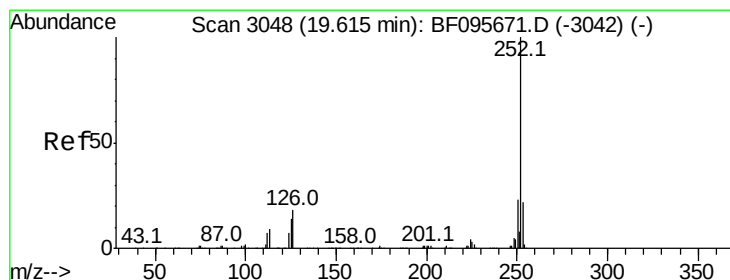
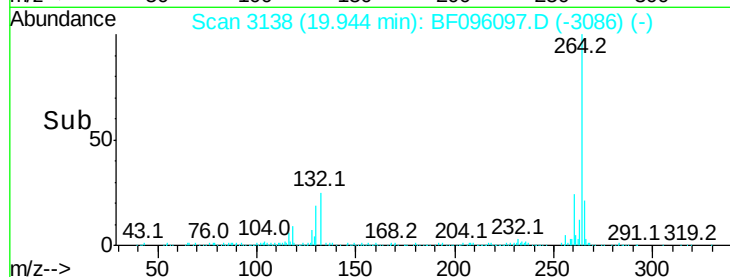
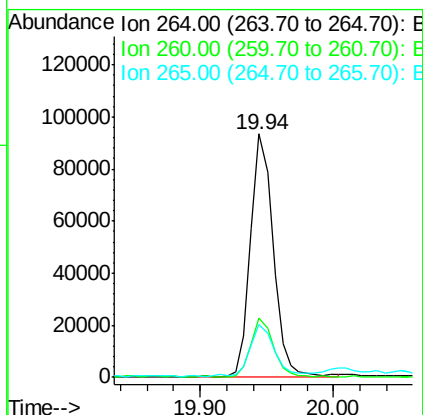
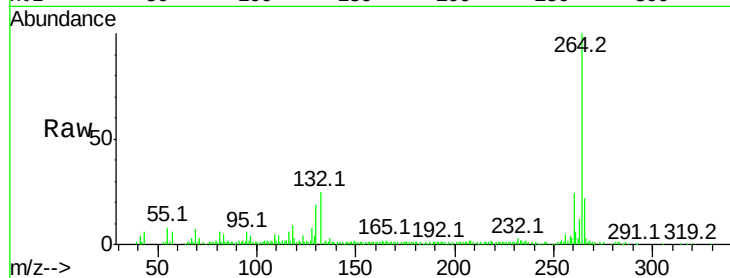


#86
Pervlene-d12
Concen: 20.00 ng
RT: 19.94 min Scan# 3138
Delta R.T. 0.01 min
Lab File: BF096097.D
Acq: 21 Jun 2017 22:00

Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 110565

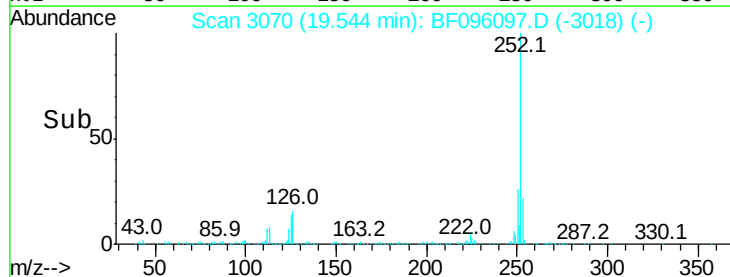
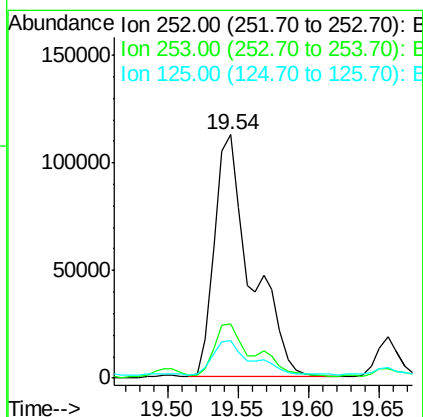
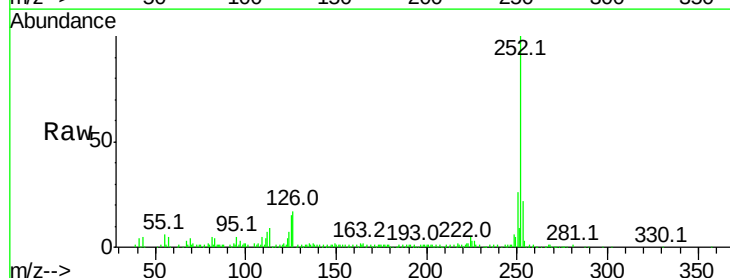
Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.5	29.3
265	21.7	17.2	25.8

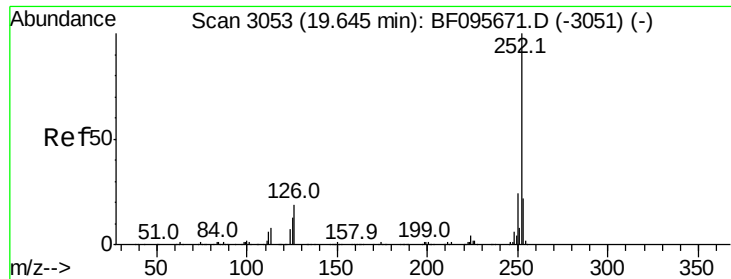


#87
Benzo(b)fluoranthene
Concen: 29.58 ng
RT: 19.54 min Scan# 3070
Delta R.T. 0.01 min
Lab File: BF096097.D
Acq: 21 Jun 2017 22:00

Tgt Ion:252 Resp: 204794

Ion	Ratio	Lower	Upper
252	100		
253	22.3	18.1	27.1
125	15.5	9.8	14.8#





#88

Benzo(k)fluoranthene

Concen: 30.95 ng

RT: 19.54 min Scan# 3070

Delta R.T. -0.02 min

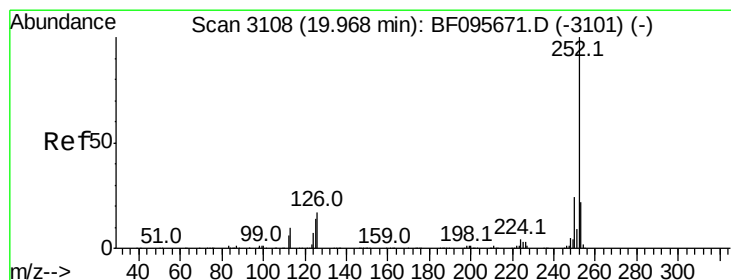
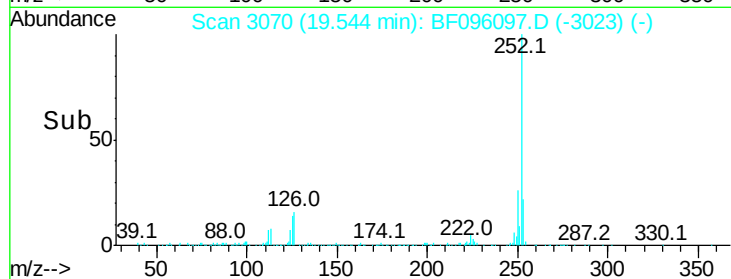
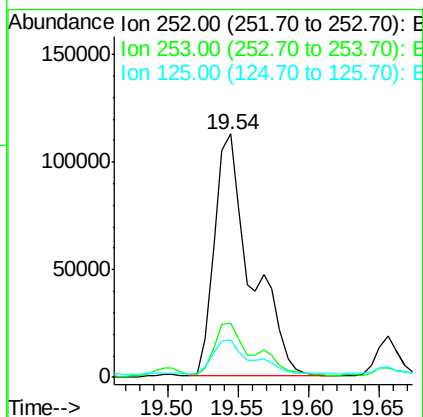
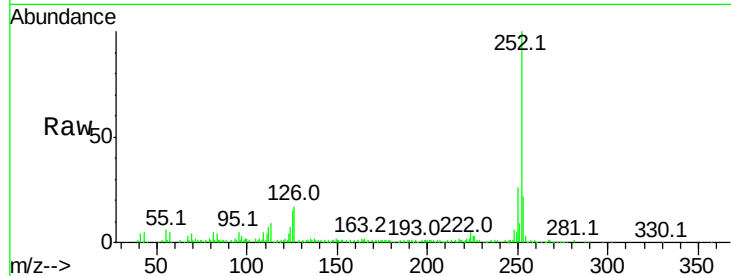
Lab File: BF096097.D

Acq: 21 Jun 2017 22:00

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 204794

Ion	Ratio	Lower	Upper
252	100		
253	22.3	18.4	27.6
125	15.5	13.1	19.7



#89

Benzo(a)pyrene

Concen: 15.07 ng

RT: 19.89 min Scan# 3129

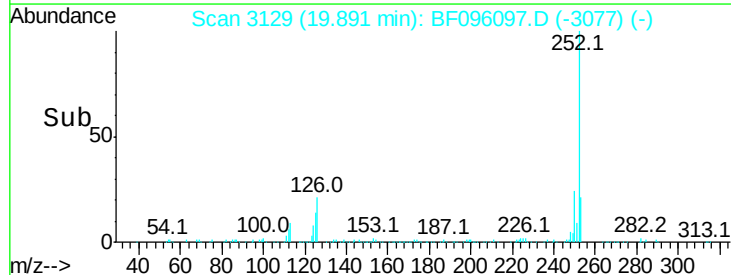
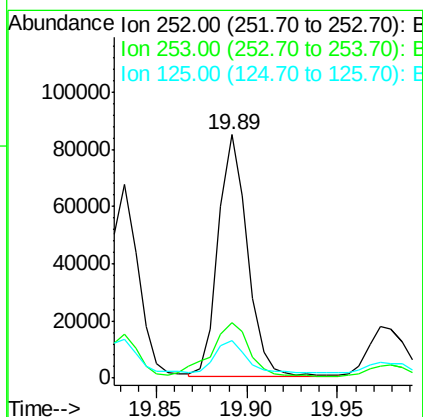
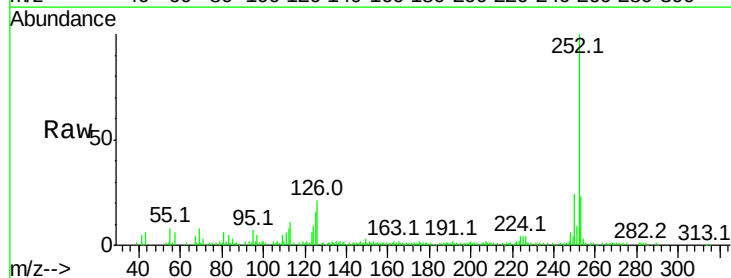
Delta R.T. 0.01 min

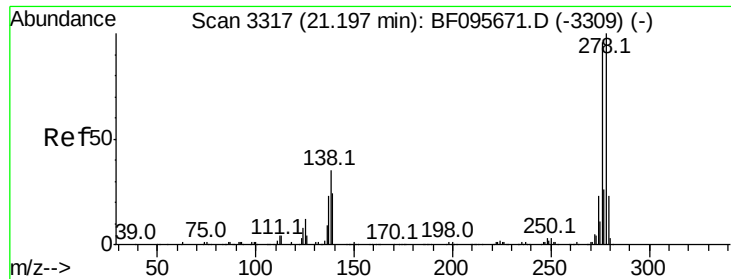
Lab File: BF096097.D

Acq: 21 Jun 2017 22:00

Tgt Ion:252 Resp: 95872

Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.5	26.3
125	15.6	11.0	16.4





#90

Dibenzo(a,h)anthracene

Concen: 2.99 ng

RT: 21.10 min Scan# 3335

Delta R.T. 0.01 min

Lab File: BF096097.D

Acq: 21 Jun 2017 22:00

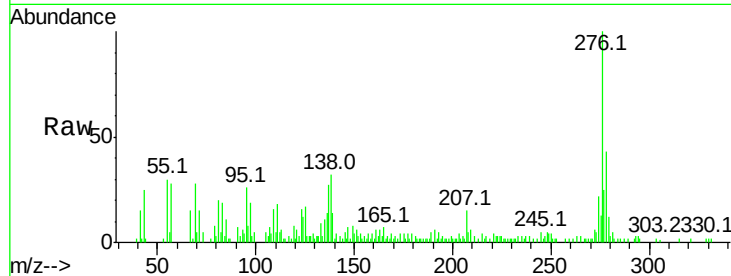
Instrument :

BNA_F

ClientSampleId :

Tot Ion:278 Resp: 16134

Ion	Ratio	Lower	Upper
278	100		
139	31.3	16.6	24.8#
279	27.7	19.3	28.9

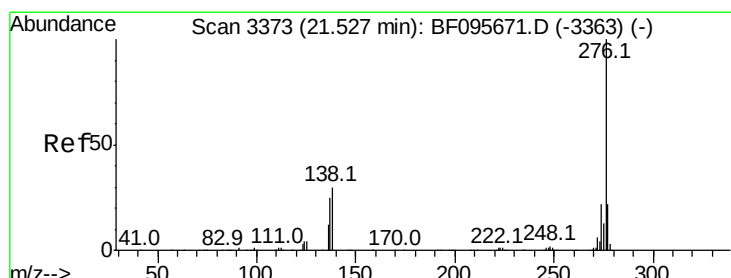
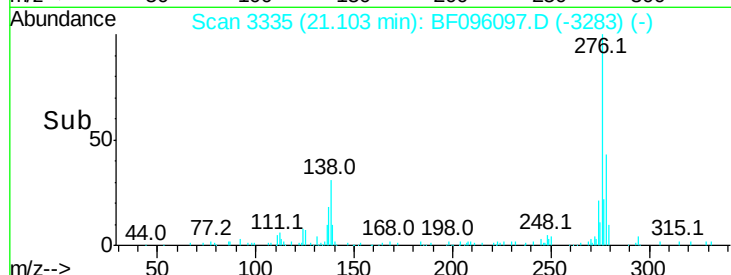
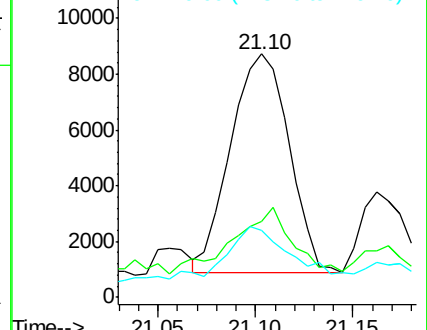


Abundance

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(g,h,i)perylene

Concen: 7.70 ng

RT: 21.44 min Scan# 3393

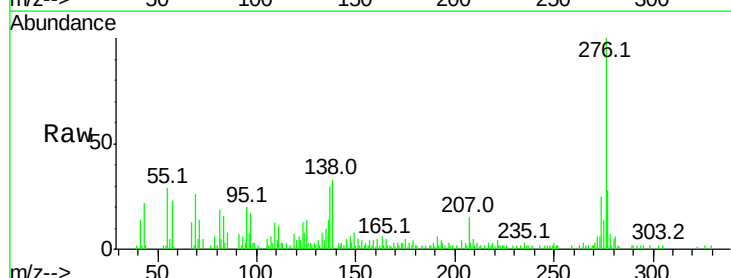
Delta R.T. 0.02 min

Lab File: BF096097.D

Acq: 21 Jun 2017 22:00

Tgt Ion:276 Resp: 42383

Ion	Ratio	Lower	Upper
276	100		
277	28.5	18.6	28.0#
138	33.3	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

