

Data Path : Z:\HPCHEM1\BNA F\DATA\BF100317\
 Data File : BF099051.D
 Acq On : 4 Oct 2017 00:57
 Operator : SJ/JU
 Sample : I5610-01
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Oct 04 03:43:22 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Sep 23 13:50:58 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	131919	20.00	ng	-0.05
21) Naphthalene-d8	8.16	136	473708	20.00	ng	-0.05
38) Acenaphthene-d10	9.91	164	163919	20.00	ng	-0.05
63) Phenanthrene-d10	11.40	188	241410	20.00	ng	-0.05
75) Chrysene-d12	14.03	240	257163	20.00	ng	-0.05
86) Perylene-d12	15.51	264	264473	20.00	ng	-0.06

System Monitoring Compounds						
5) 2-Fluorophenol	5.50	112	1017356	122.77	ng	-0.04
7) Phenol-d6	6.50	99	1235848	120.89	ng	-0.04
23) Nitrobenzene-d5	7.44	82	683037	92.47	ng	-0.05
41) 2,4,6-Tribromophenol	10.70	330	153446	114.40	ng	-0.05
44) 2-Fluorobiphenyl	9.23	172	978834	99.69	ng	-0.05
78) Terphenyl-d14	12.98	244	697564	61.69	ng	-0.05

Target Compounds						Qvalue
9) Benzaldehyde	6.65	77	20154	3.40	ng	87
10) Phenol	6.52	94	31599	2.76	ng	92
19) n-Nitroso-di-n-propylamine	7.44	70	87340	13.38	ng	# 75
25) Isophorone	7.44	82	673678	44.11	ng	# 64
49) Dimethylphthalate	9.62	163	151009	12.21	ng	98
56) 2,4-Dinitrotoluene	9.91	165	21318	6.10	ng	# 23
66) 4-Bromophenyl-phenylether	10.70	248	10216	4.32	ng	# 1
70) Phenanthrene	11.42	178	62725	4.85	ng	99
71) Anthracene	11.47	178	36709	2.78	ng	99
74) Fluoranthene	12.62	202	178252	13.62	ng	99
77) Pyrene	12.84	202	167811	8.56	ng	98
80) Benzo(a)anthracene	14.03	228	106048	6.81	ng	99
82) Chrysene	14.06	228	103247	6.96	ng	99
85) Indeno(1,2,3-cd)pyrene	16.99	276	28021	2.36	ng	96
87) Benzo(b)fluoranthene	15.07	252	125990	7.75	ng	# 94
88) Benzo(k)fluoranthene	15.07	252	125990	7.84	ng	# 95
89) Benzo(a)pyrene	15.44	252	65925	4.42	ng	# 94
91) Benzo(g,h,i)perylene	17.43	276	25706	2.18	ng	96

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

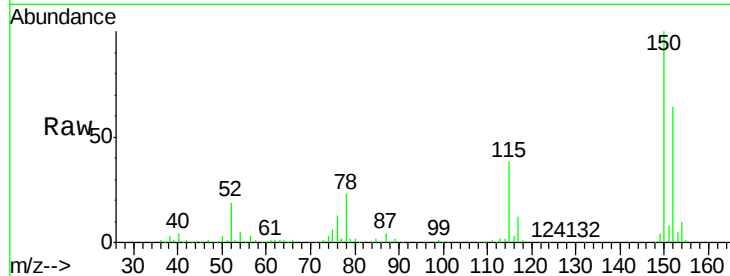


#1

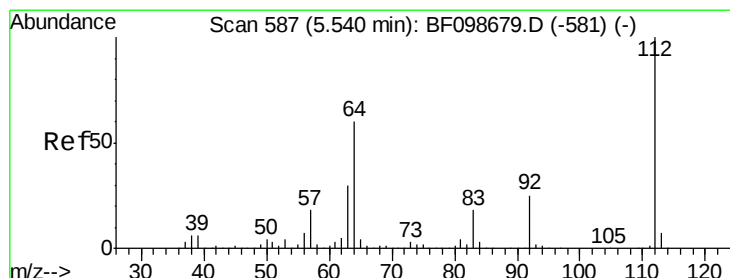
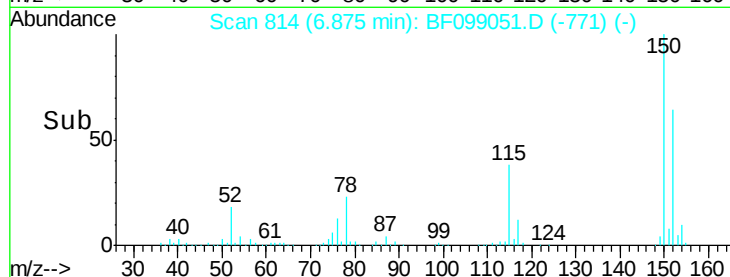
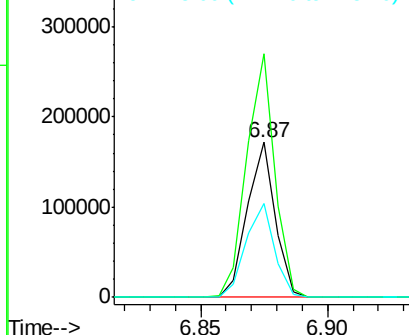
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.87 min Scan# 814
Delta R.T. -0.05 min
Lab File: BF099051.D
Acq: 4 Oct 2017 00:57

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 131919
Ion Ratio Lower Upper
152 100
150 157.4 124.6 186.8
115 60.3 50.1 75.1



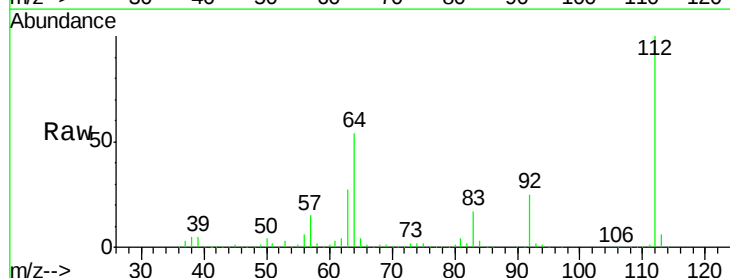
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



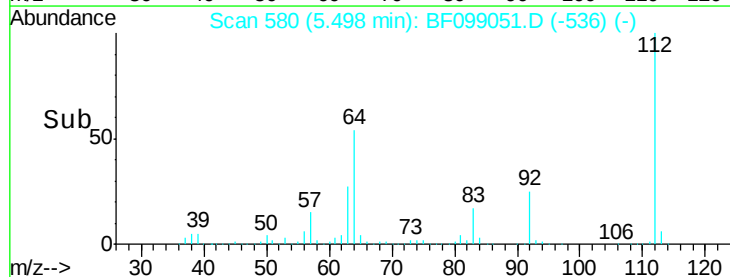
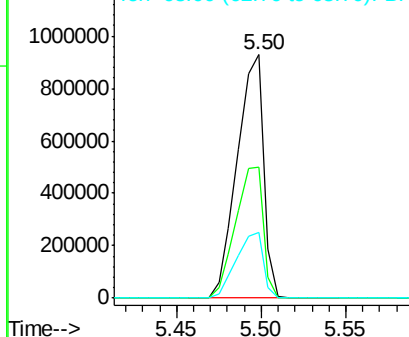
#5

2-Fluorophenol
Concen: 122.77 ng
RT: 5.50 min Scan# 580
Delta R.T. -0.04 min
Lab File: BF099051.D
Acq: 4 Oct 2017 00:57

Tgt Ion:112 Resp: 1017356
Ion Ratio Lower Upper
112 100
64 53.7 47.9 71.9
63 26.9 23.7 35.5



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: 120.89 ng

RT: 6.50 min Scan# 751

Delta R.T. -0.04 min

Lab File: BF099051.D

Acq: 4 Oct 2017 00:57

Instrument :

BNA_F

ClientSampled :

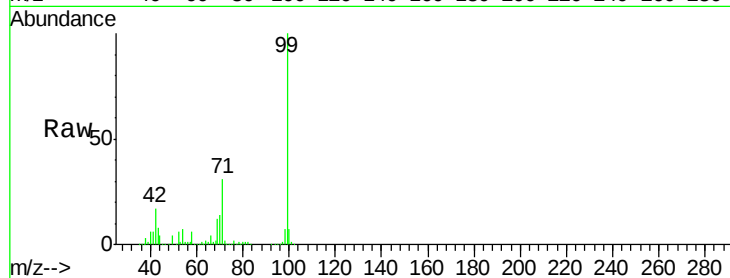
Tot Ion: 99 Resp: 1235848

Ion Ratio Lower Upper

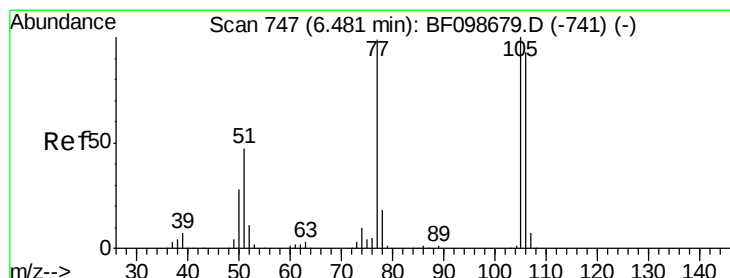
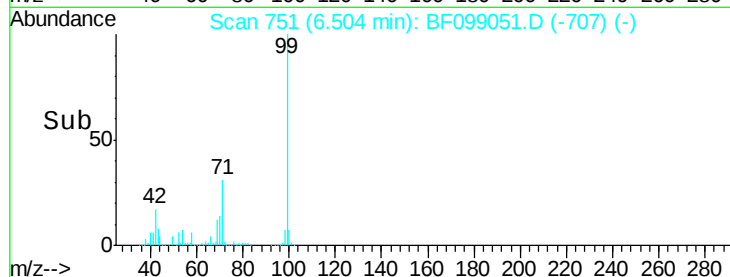
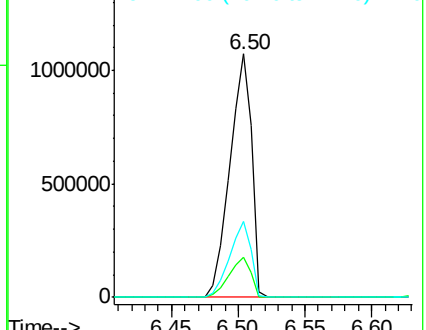
99 100

42 16.6 14.5 21.7

71 31.4 25.4 38.0



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



#9

Benzaldehyde

Concen: 3.40 ng

RT: 6.65 min Scan# 775

Delta R.T. 0.17 min

Lab File: BF099051.D

Acq: 4 Oct 2017 00:57

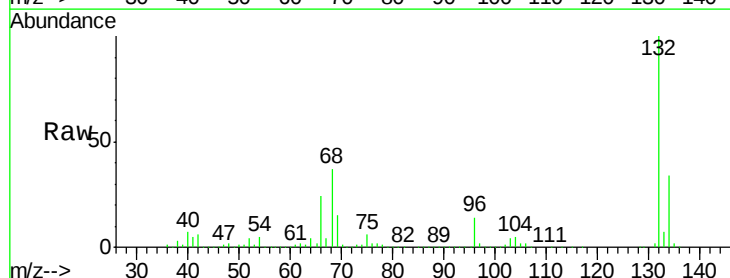
Tgt Ion: 77 Resp: 20154

Ion Ratio Lower Upper

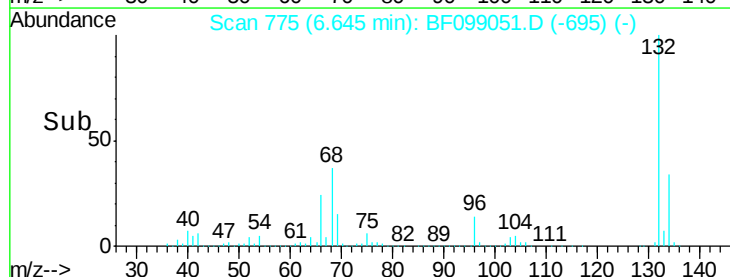
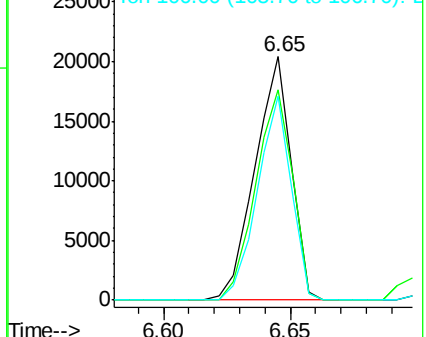
77 100

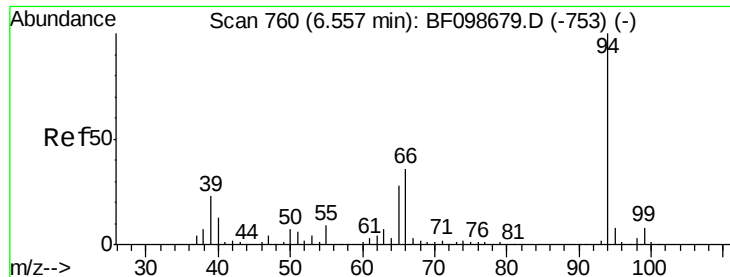
105 86.6 81.1 121.1

106 83.5 74.5 114.5



Abundance Ion 77.00 (76.70 to 77.70): BF0
Ion 105.00 (104.70 to 105.70): B
Ion 106.00 (105.70 to 106.70): B

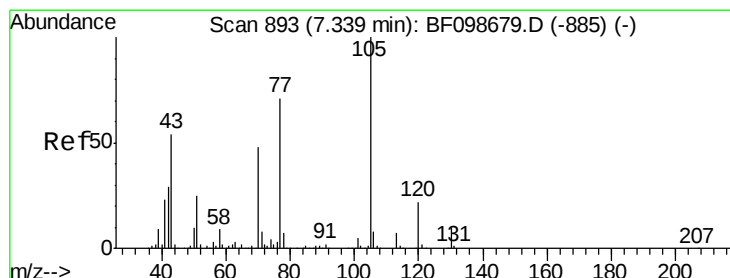
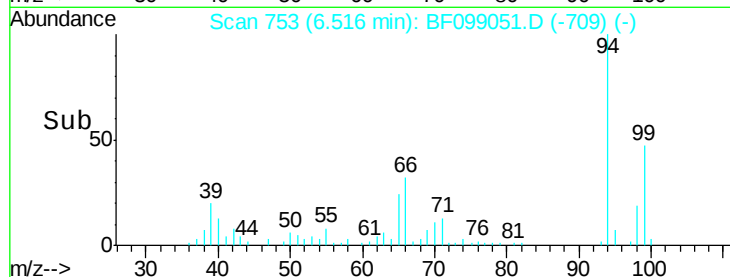
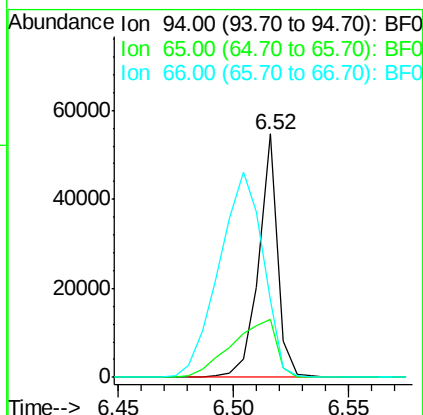
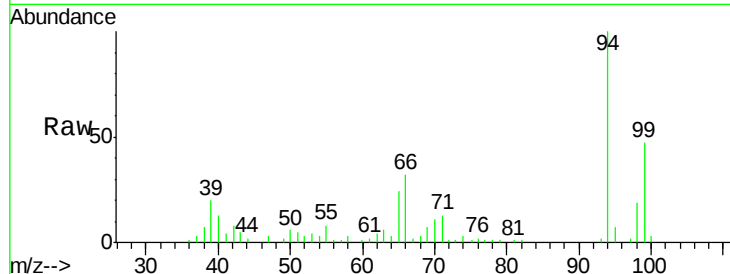




#10
Phenol
Concen: 2.76 ng
RT: 6.52 min Scan# 753
Delta R.T. -0.04 min
Lab File: BF099051.D
Acq: 4 Oct 2017 00:57

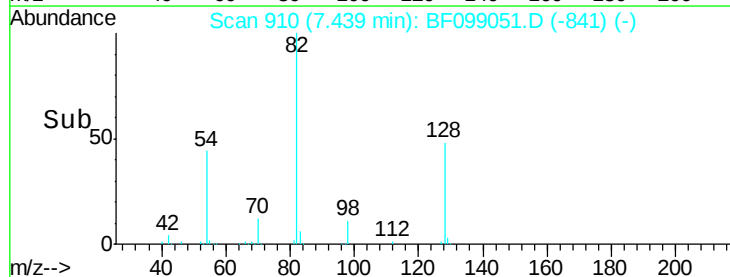
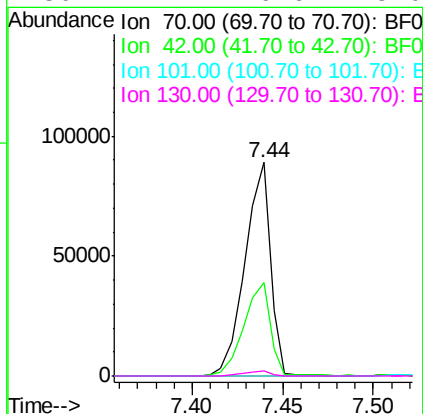
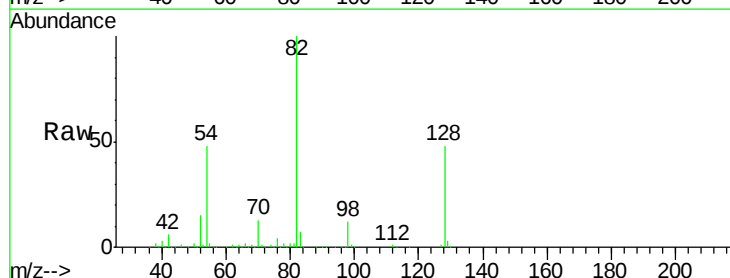
Instrument :
BNA_F
ClientSampleId :

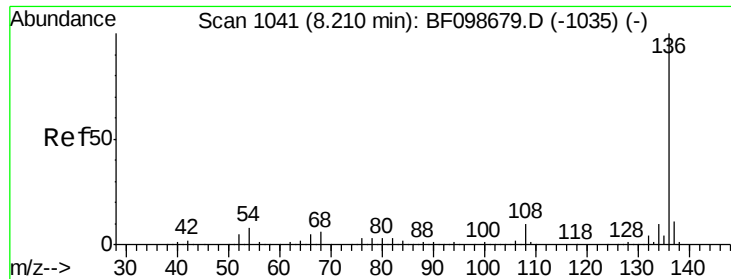
Tot Ion: 94 Resp: 31599
Ion Ratio Lower Upper
94 100
65 23.7 7.9 47.9
66 32.0 16.2 56.2



#19
n-Nitroso-di-n-propylamine
Concen: 13.38 ng
RT: 7.44 min Scan# 910
Delta R.T. 0.11 min
Lab File: BF099051.D
Acq: 4 Oct 2017 00:57

Tgt Ion: 70 Resp: 87340
Ion Ratio Lower Upper
70 100
42 43.9 47.5 71.3#
101 0.0 7.4 11.2#
130 2.4 16.6 25.0#

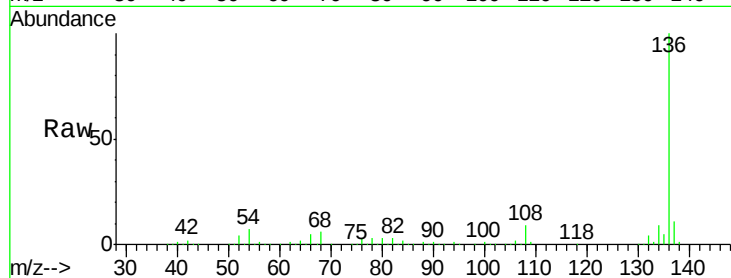




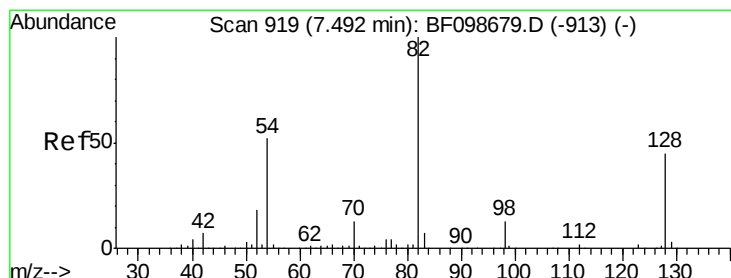
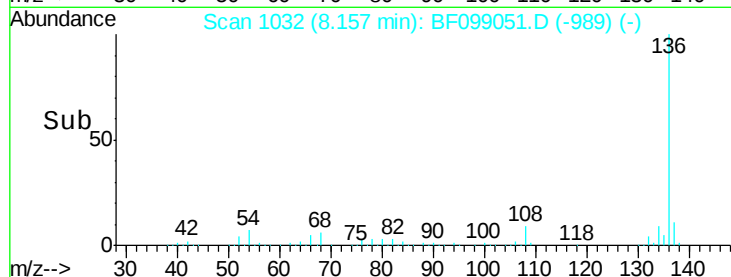
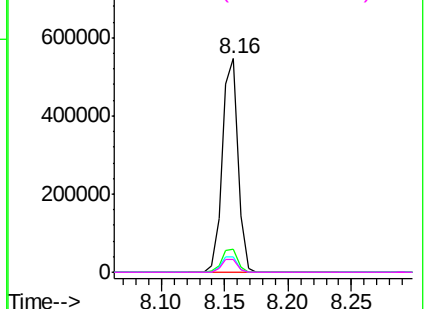
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.16 min Scan# 1032
Delta R.T. -0.05 min
Lab File: BF099051.D
Acq: 4 Oct 2017 00:57

Instrument :
BNA_F
ClientSampleId :

Tot Ion:136	Resp:	473708
Ion	Ratio	Lower Upper
136	100	
137	11.1	8.9 13.3
54	7.0	6.6 9.8
68	5.8	5.0 7.4

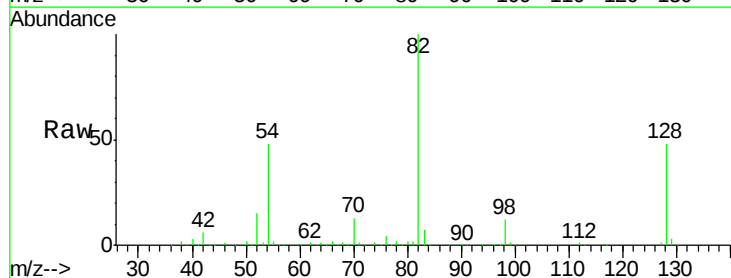


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

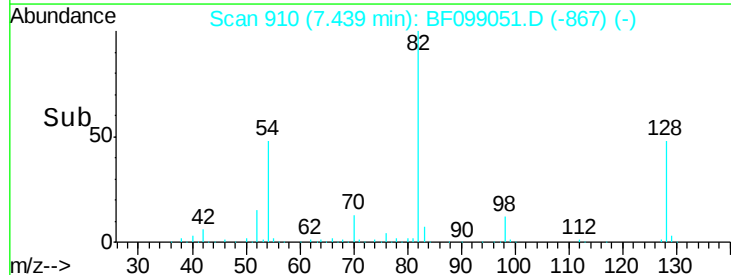
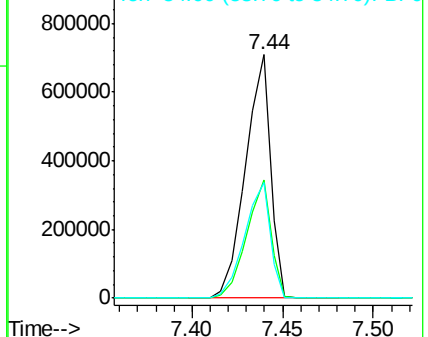


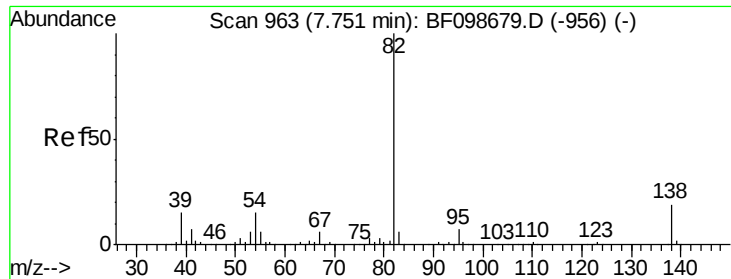
#23
Nitrobenzene-d5
Concen: 92.47 ng
RT: 7.44 min Scan# 910
Delta R.T. -0.05 min
Lab File: BF099051.D
Acq: 4 Oct 2017 00:57

Tgt Ion: 82	Resp:	683037
Ion	Ratio	Lower Upper
82	100	
128	48.3	36.1 54.1
54	47.6	41.4 62.2



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

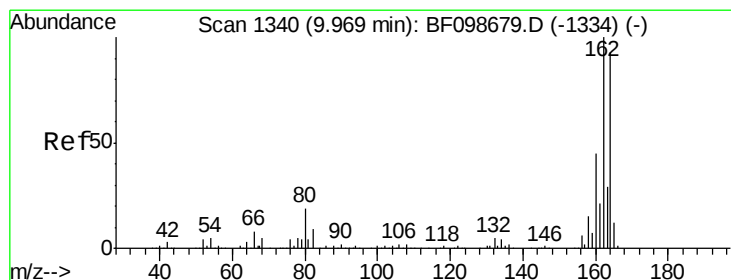
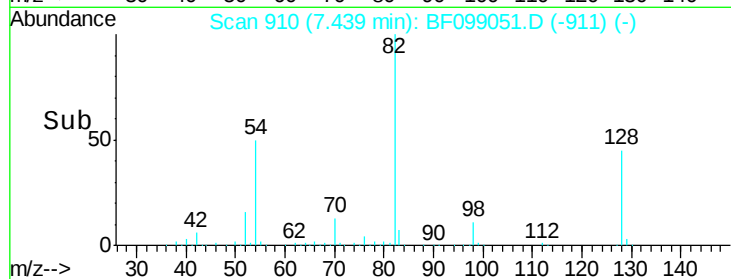
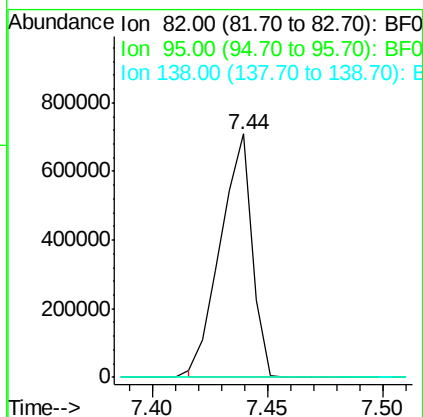
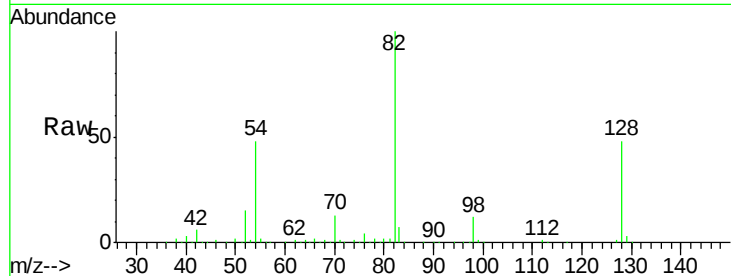




#25
Isophorone
Concen: 44.11 ng
RT: 7.44 min Scan# 910
Delta R.T. -0.31 min
Lab File: BF099051.D
Acq: 4 Oct 2017 00:57

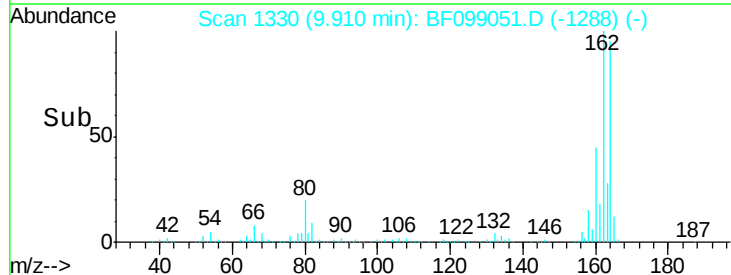
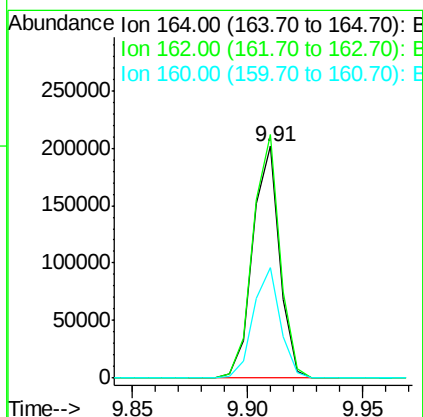
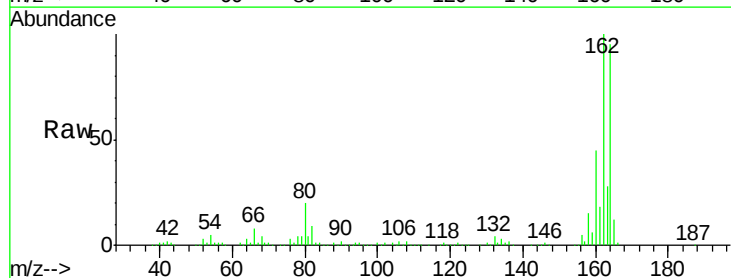
Instrument :
BNA_F
ClientSampleId :

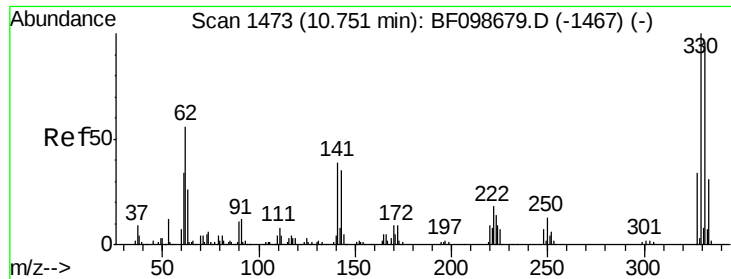
Tot Ion: 82 Resp: 673678
Ion Ratio Lower Upper
82 100
95 0.0 5.2 7.8#
138 0.0 14.9 22.3#



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.91 min Scan# 1330
Delta R.T. -0.05 min
Lab File: BF099051.D
Acq: 4 Oct 2017 00:57

Tgt Ion:164 Resp: 163919
Ion Ratio Lower Upper
164 100
162 105.0 86.1 129.1
160 47.5 38.3 57.5

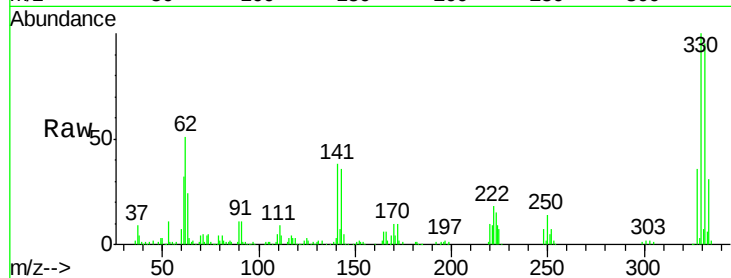




#41
 2,4,6-Tribromophenol
 Concen: 114.40 ng
 RT: 10.70 min Scan# 1464
 Delta R.T. -0.05 min
 Lab File: BF099051.D
 Acq: 4 Oct 2017 00:57

Instrument :
 BNA_F
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.0	77.0	115.6
141	41.0	29.9	44.9

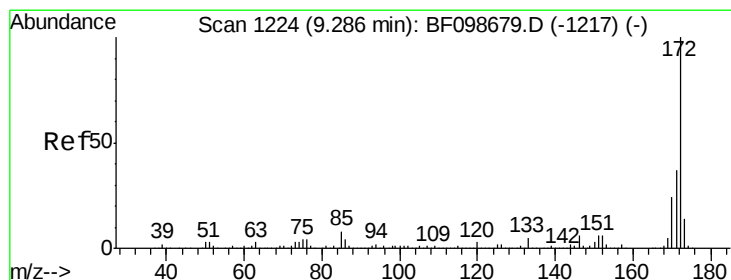
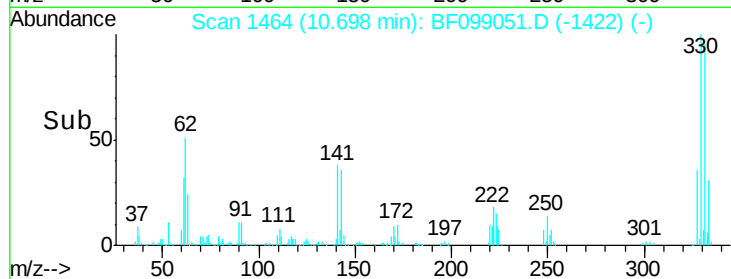
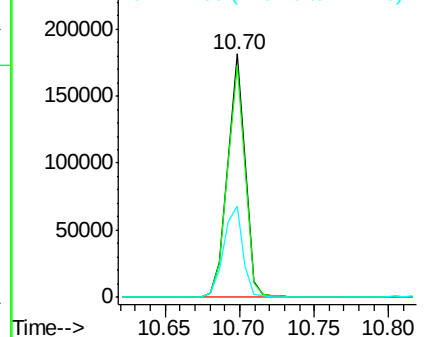


Abundance

Ion 329.80 (329.50 to 330.50): E

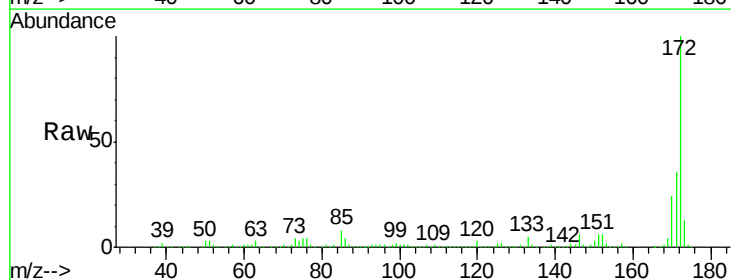
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44
 2-Fluorobiphenyl
 Concen: 99.69 ng
 RT: 9.23 min Scan# 1214
 Delta R.T. -0.05 min
 Lab File: BF099051.D
 Acq: 4 Oct 2017 00:57

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.8	29.7	44.5
170	24.2	19.6	29.4

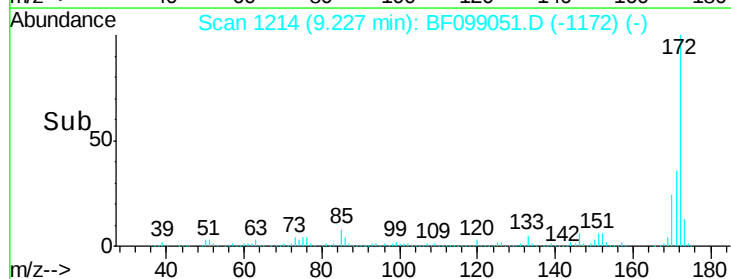
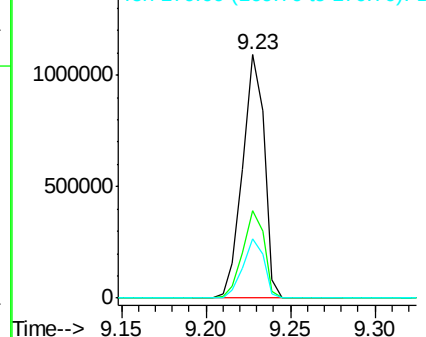


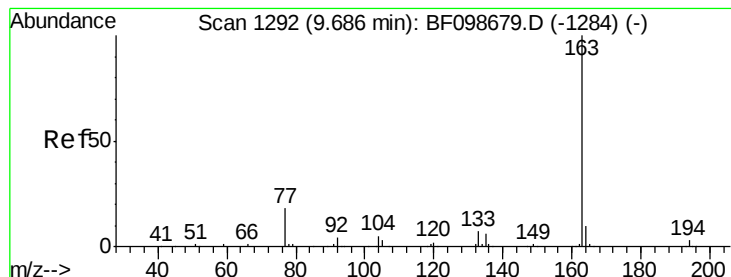
Abundance

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: 12.21 ng

RT: 9.62 min Scan# 1281

Delta R.T. -0.06 min

Lab File: BF099051.D

Acq: 4 Oct 2017 00:57

Instrument :

BNA_F

ClientSampleId :

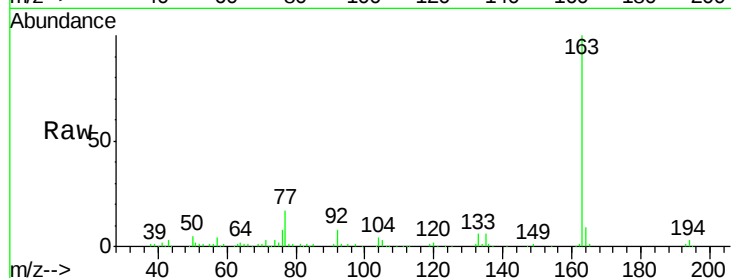
Tot Ion:163 Resp: 151009

Ion Ratio Lower Upper

163 100

194 3.4 2.7 4.1

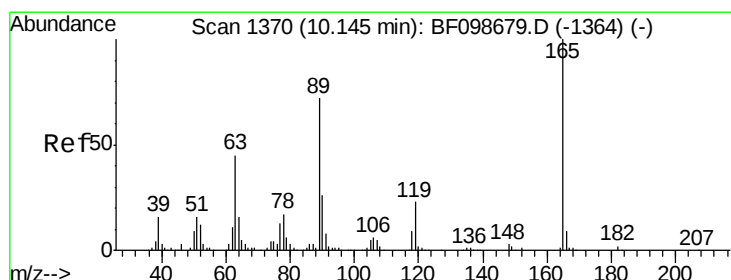
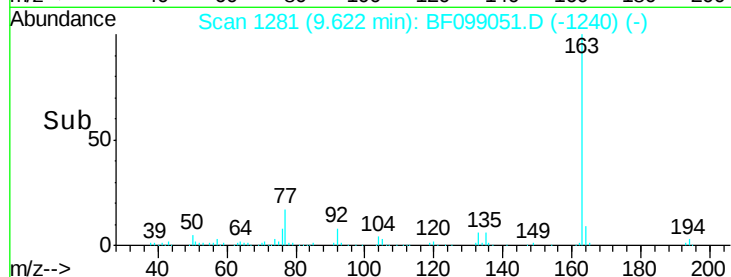
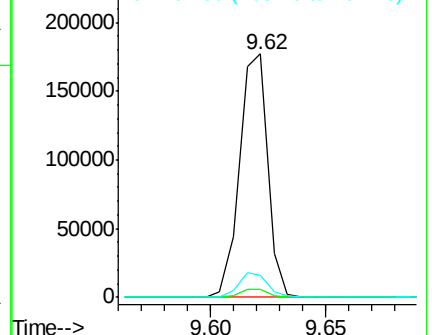
164 9.0 8.2 12.2



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



#56

2,4-Dinitrotoluene

Concen: 6.10 ng

RT: 9.91 min Scan# 1330

Delta R.T. -0.24 min

Lab File: BF099051.D

Acq: 4 Oct 2017 00:57

Tgt Ion:165 Resp: 21318

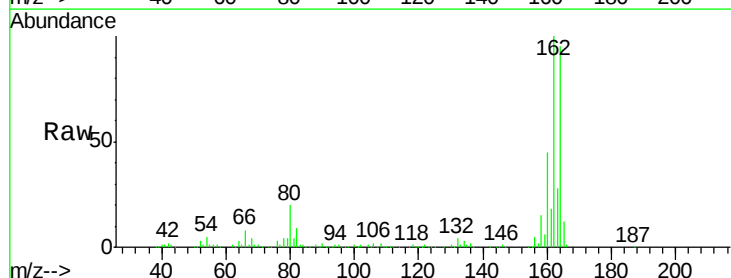
Ion Ratio Lower Upper

165 100

63 1.7 36.4 54.6#

89 1.3 57.8 86.6#

182 0.0 1.6 2.4#

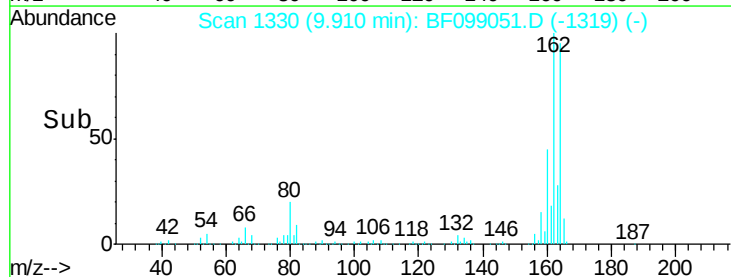
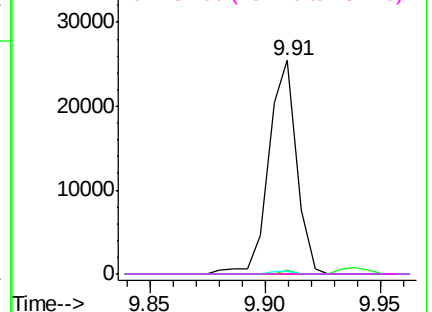


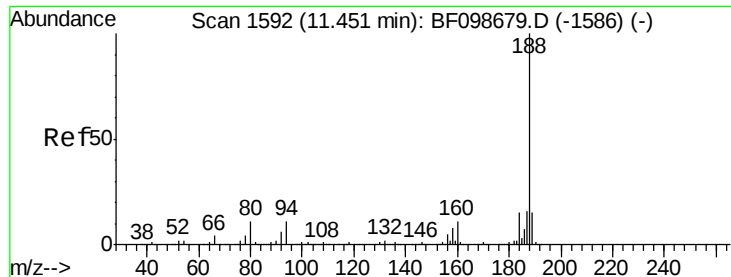
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E

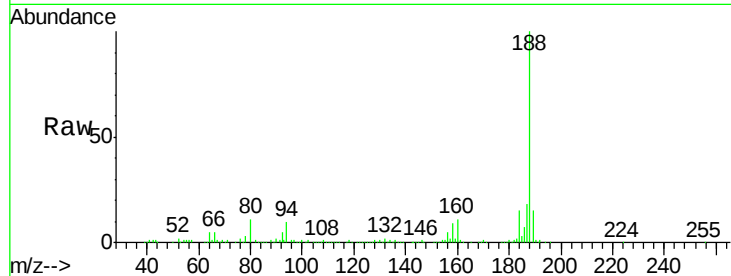




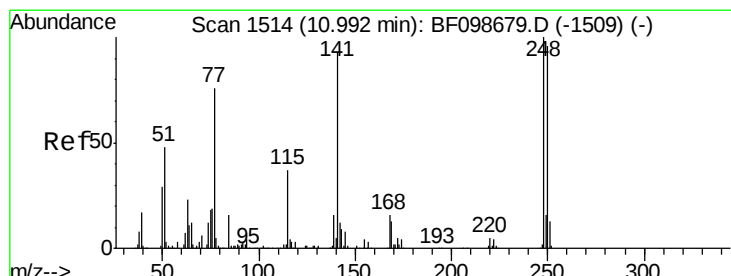
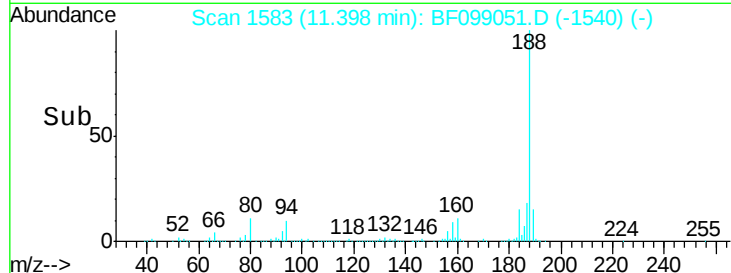
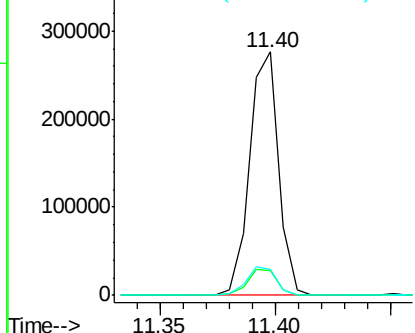
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.40 min Scan# 1583
Delta R.T. -0.05 min
Lab File: BF099051.D
Acq: 4 Oct 2017 00:57

Instrument :
BNA_F
ClientSampleId :

Tot Ion:188 Resp: 241410
Ion Ratio Lower Upper
188 100
94 10.3 8.5 12.7
80 10.7 9.2 13.8

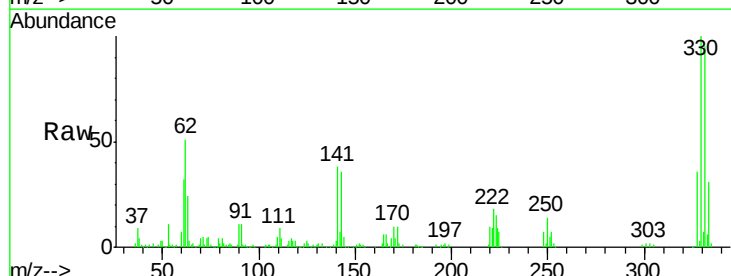


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

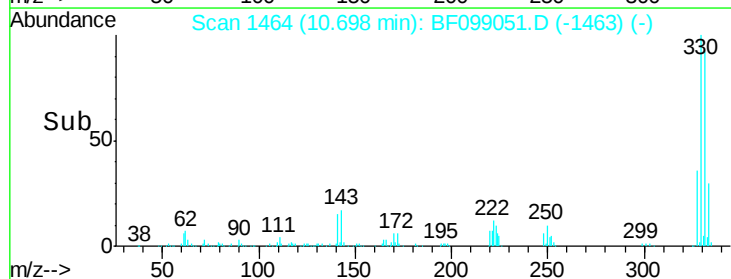
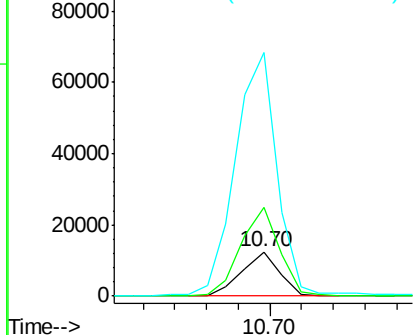


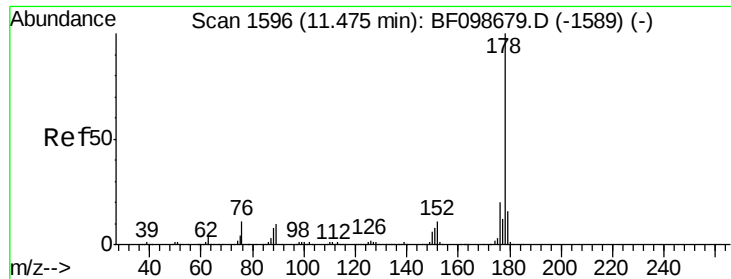
#66
4-Bromophenyl-phenylether
Concen: 4.32 ng
RT: 10.70 min Scan# 1464
Delta R.T. -0.29 min
Lab File: BF099051.D
Acq: 4 Oct 2017 00:57

Tgt Ion:248 Resp: 10216
Ion Ratio Lower Upper
248 100
250 201.0 76.9 115.3#
141 553.5 74.4 111.6#



Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E





#70

Phenanthrene

Concen: 4.85 ng

RT: 11.42 min Scan# 1586

Delta R.T. -0.06 min

Lab File: BF099051.D

Acq: 4 Oct 2017 00:57

Instrument :

BNA_F

ClientSampleId :

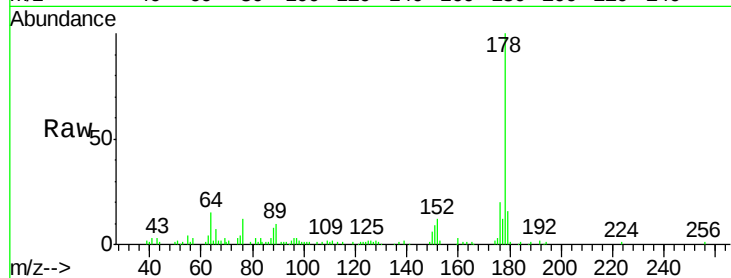
Tot Ion:178 Resp: 62725

Ion Ratio Lower Upper

178 100

176 20.0 15.8 23.8

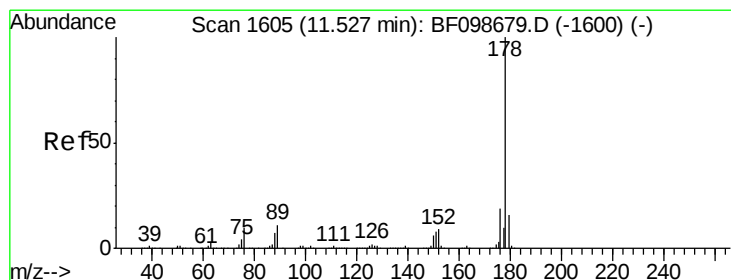
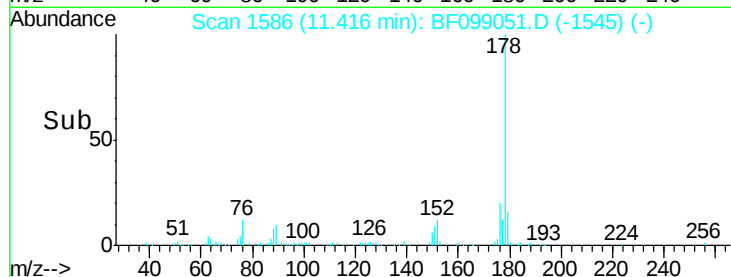
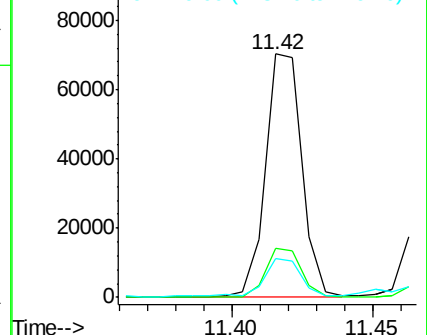
179 15.9 13.0 19.6



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: 2.78 ng

RT: 11.47 min Scan# 1595

Delta R.T. -0.06 min

Lab File: BF099051.D

Acq: 4 Oct 2017 00:57

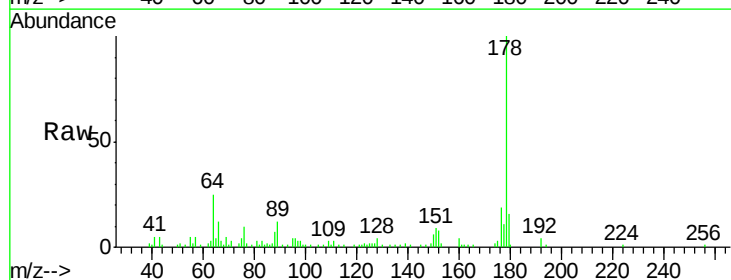
Tgt Ion:178 Resp: 36709

Ion Ratio Lower Upper

178 100

176 18.6 15.4 23.2

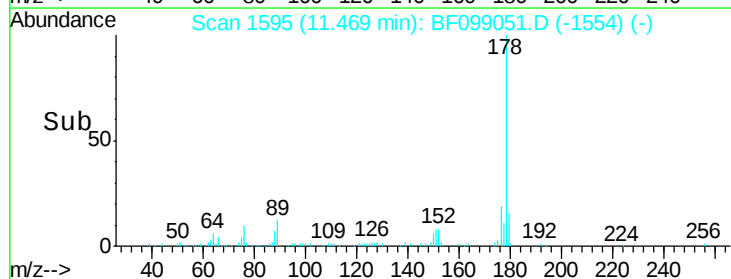
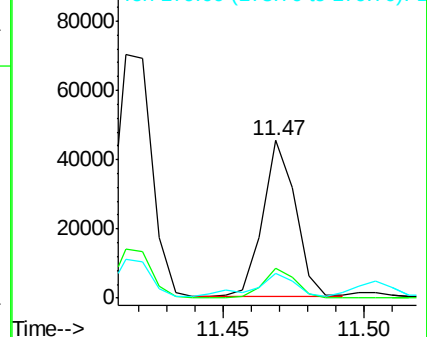
179 15.8 12.6 19.0

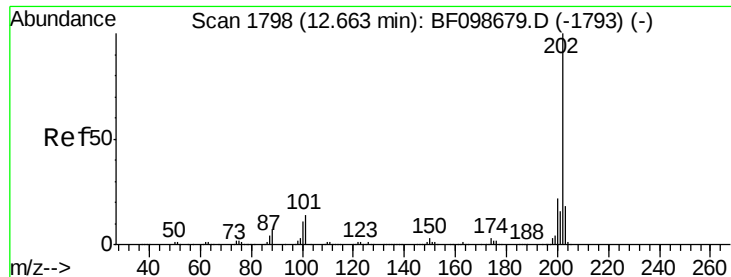


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 13.62 ng

RT: 12.62 min Scan# 1790

Delta R.T. -0.05 min

Lab File: BF099051.D

Acq: 4 Oct 2017 00:57

Instrument :

BNA_F

ClientSampleId :

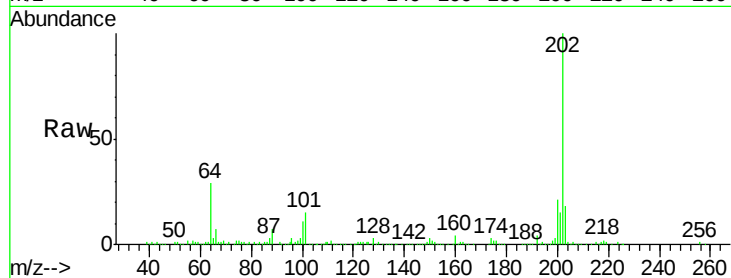
Tot Ion:202 Resp: 178252

Ion Ratio Lower Upper

202 100

101 14.6 0.0 34.1

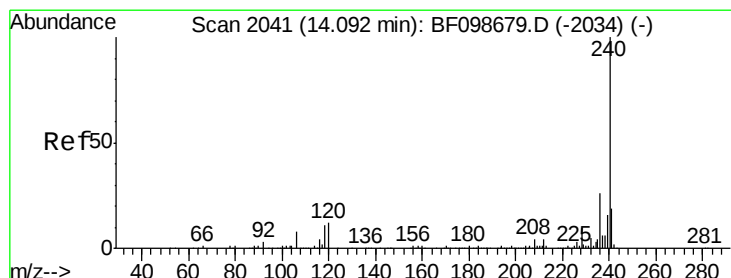
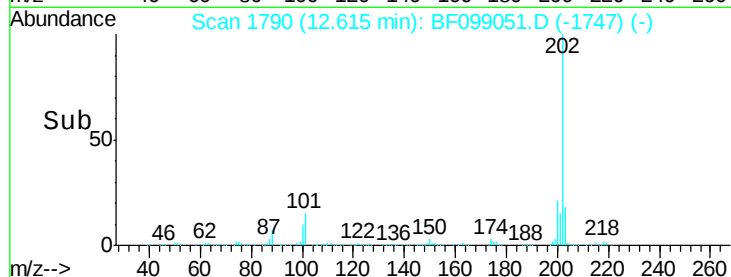
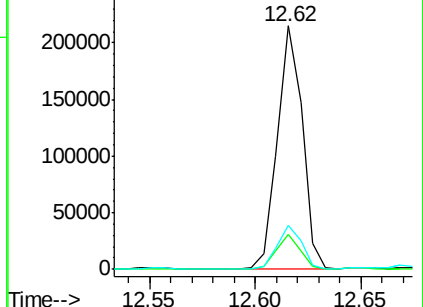
203 18.2 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.03 min Scan# 2031

Delta R.T. -0.05 min

Lab File: BF099051.D

Acq: 4 Oct 2017 00:57

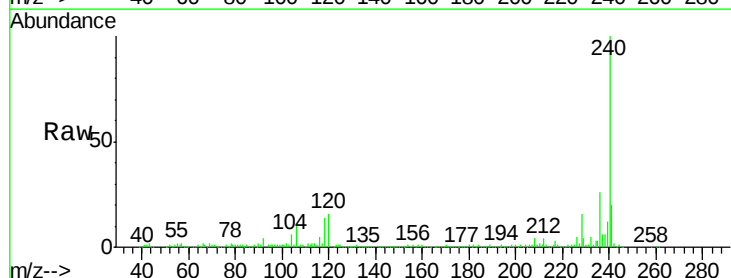
Tgt Ion:240 Resp: 257163

Ion Ratio Lower Upper

240 100

120 16.0 9.5 14.3#

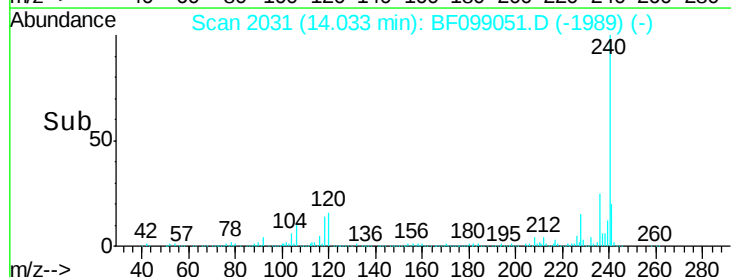
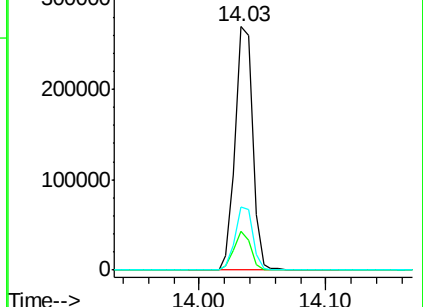
236 25.7 20.7 31.1

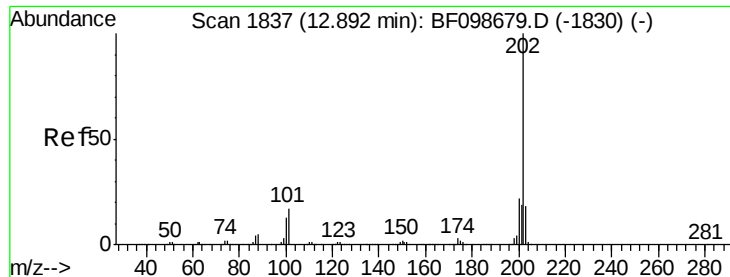


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

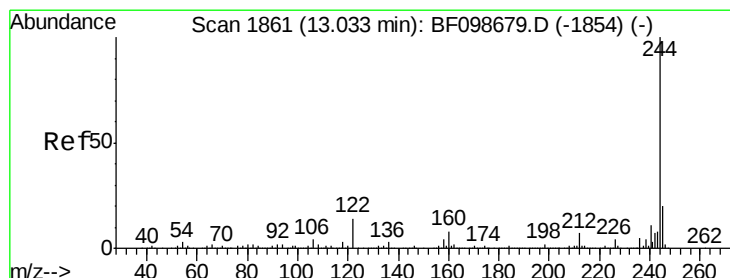
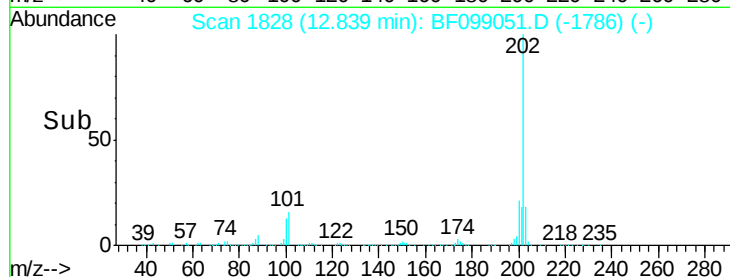
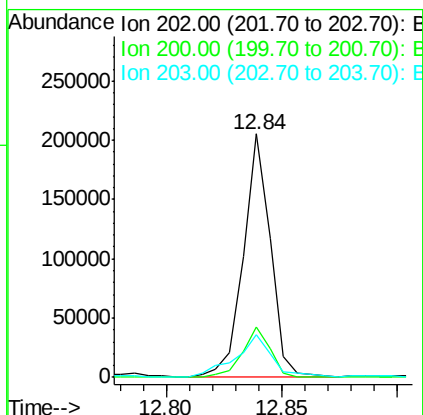
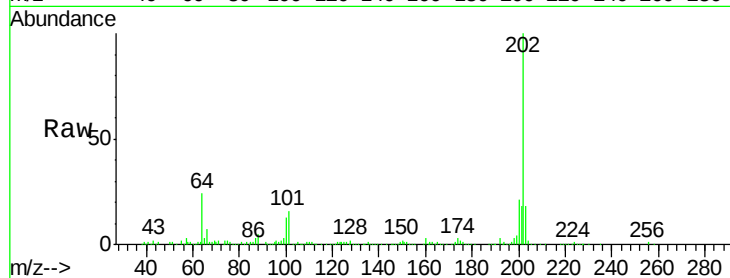




#77
Pvrene
Concen: 8.56 ng
RT: 12.84 min Scan# 1828
Delta R.T. -0.05 min
Lab File: BF099051.D
Acq: 4 Oct 2017 00:57

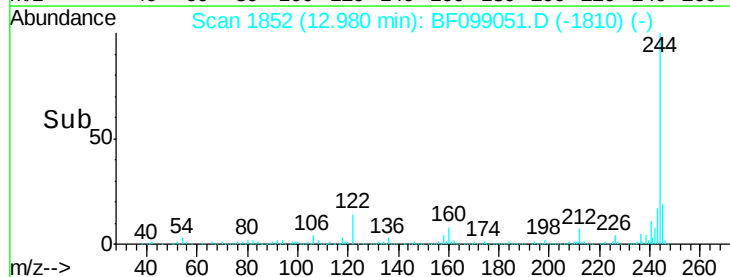
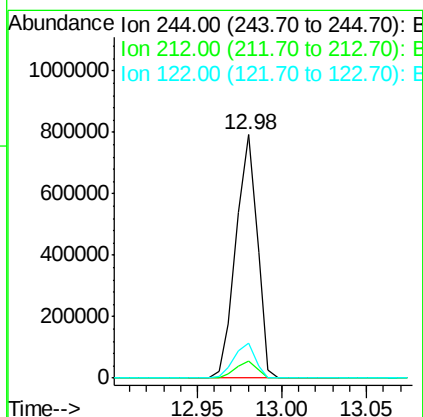
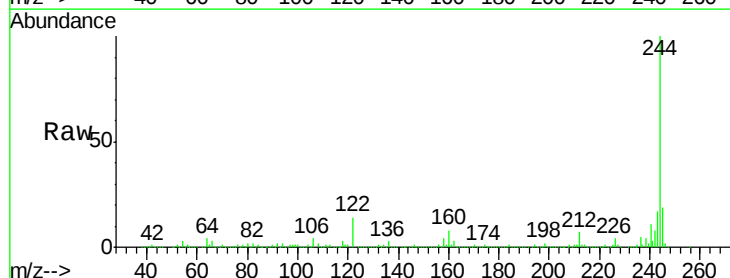
Instrument :
BNA_F
ClientSampleId :

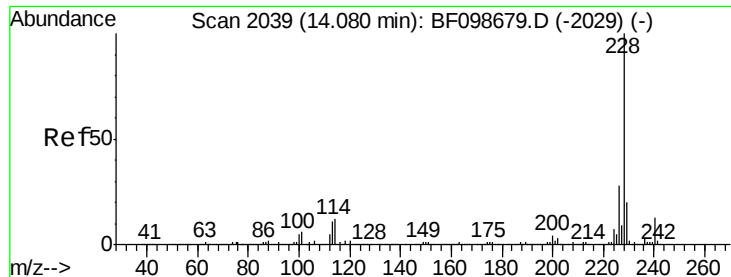
Tot Ion:202 Resp: 167811
Ion Ratio Lower Upper
202 100
200 20.7 17.4 26.2
203 17.5 14.3 21.5



#78
Terphenyl-d14
Concen: 61.69 ng
RT: 12.98 min Scan# 1852
Delta R.T. -0.05 min
Lab File: BF099051.D
Acq: 4 Oct 2017 00:57

Tgt Ion:244 Resp: 697564
Ion Ratio Lower Upper
244 100
212 7.2 5.4 8.0
122 14.1 11.0 16.4





#80

Benzo(a)anthracene

Concen: 6.81 ng

RT: 14.03 min Scan# 2030

Delta R.T. -0.05 min

Lab File: BF099051.D

Acq: 4 Oct 2017 00:57

Instrument :

BNA_F

ClientSampleId :

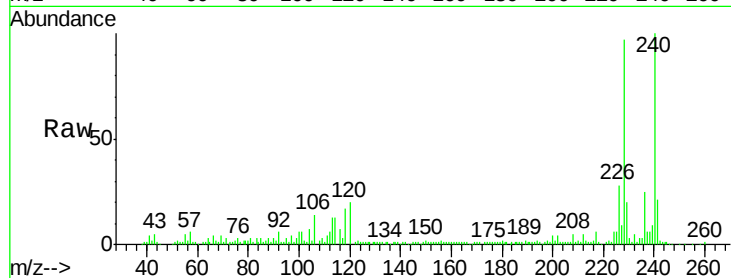
Tot Ion:228 Resp: 106048

Ion Ratio Lower Upper

228 100

226 29.1 22.6 33.8

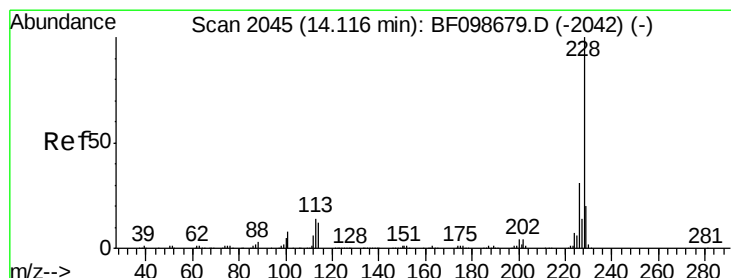
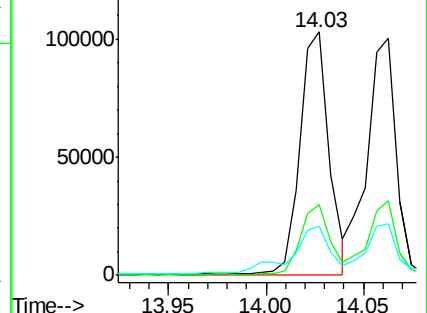
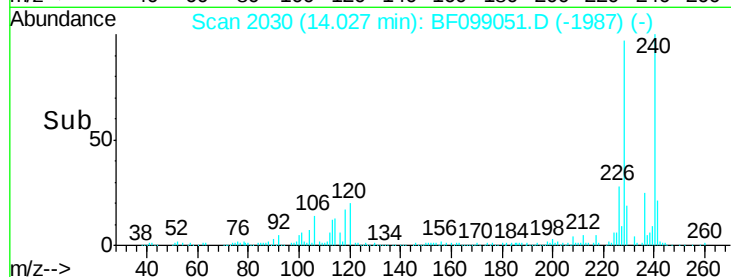
229 20.2 15.8 23.6



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



#82

Chrysene

Concen: 6.96 ng

RT: 14.06 min Scan# 2036

Delta R.T. -0.05 min

Lab File: BF099051.D

Acq: 4 Oct 2017 00:57

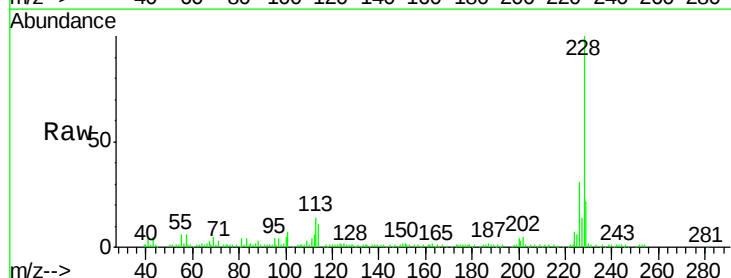
Tgt Ion:228 Resp: 103247

Ion Ratio Lower Upper

228 100

226 31.2 25.0 37.6

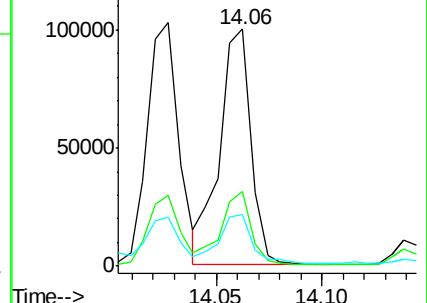
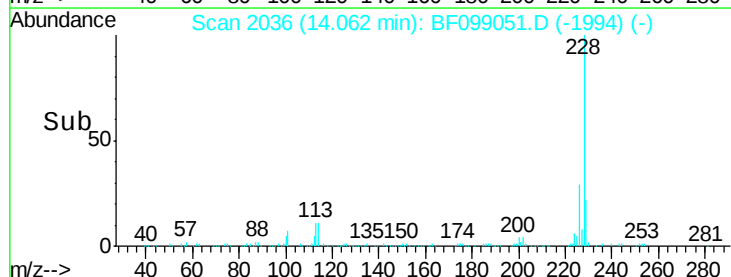
229 21.9 16.2 24.4

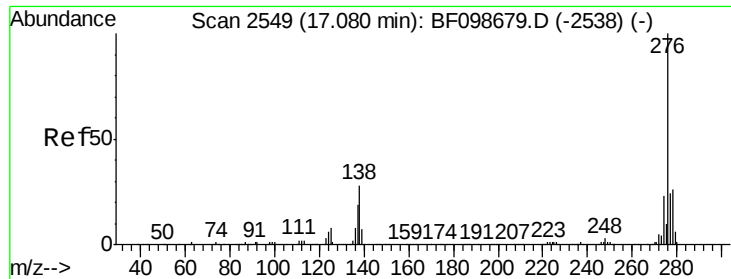


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

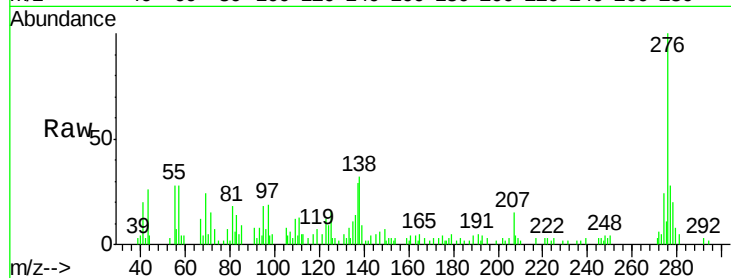




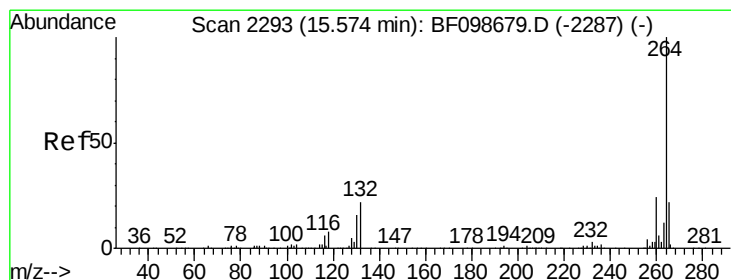
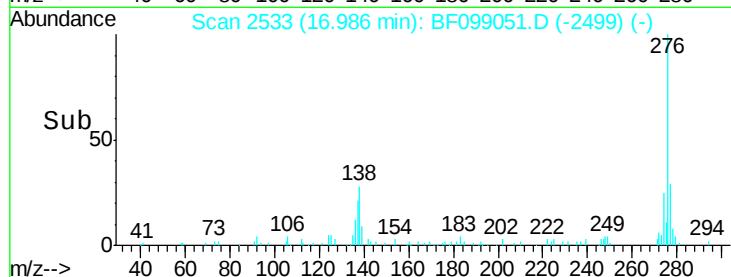
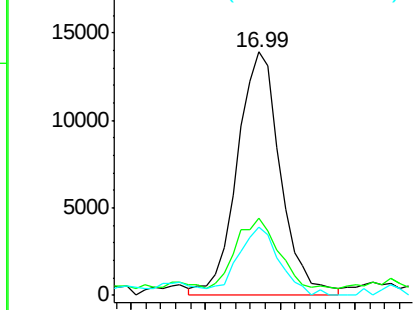
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 2.36 ng
 RT: 16.99 min Scan# 2533
 Delta R.T. -0.10 min
 Lab File: BF099051.D
 Acq: 4 Oct 2017 00:57

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:276 Resp: 28021
 Ion Ratio Lower Upper
 276 100
 138 29.0 25.0 37.6
 277 26.8 20.1 30.1

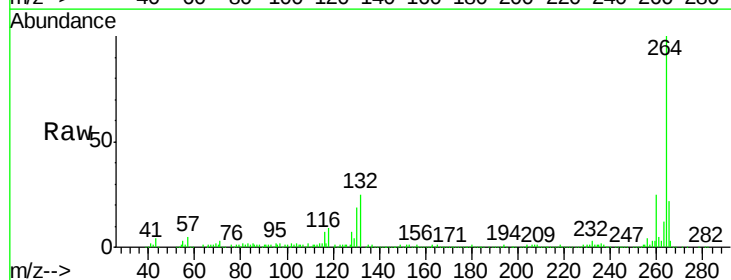


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

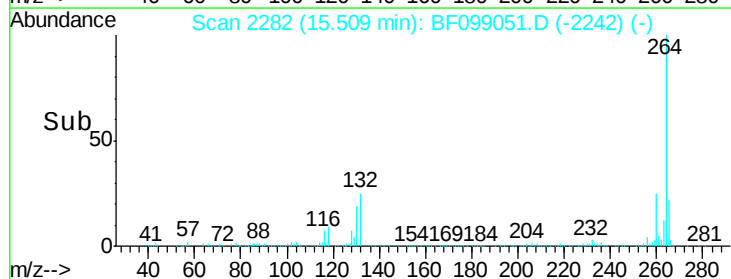
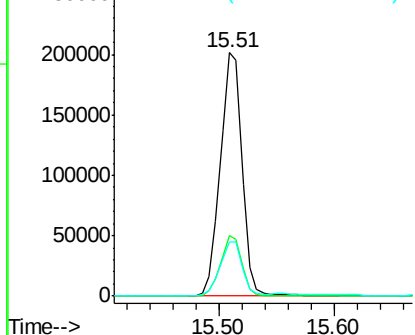


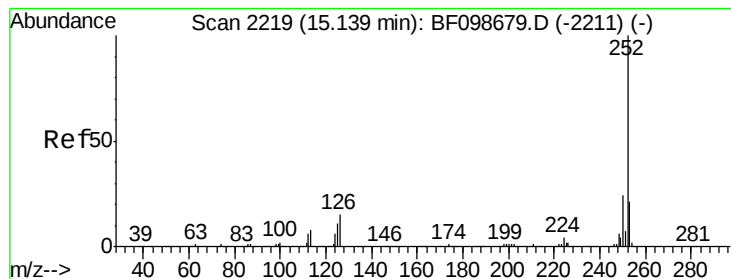
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.51 min Scan# 2282
 Delta R.T. -0.06 min
 Lab File: BF099051.D
 Acq: 4 Oct 2017 00:57

Tgt Ion:264 Resp: 264473
 Ion Ratio Lower Upper
 264 100
 260 24.7 19.2 28.8
 265 22.3 17.5 26.3



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





#87

Benzo(b)fluoranthene

Concen: 7.75 ng

RT: 15.07 min Scan# 2208

Delta R.T. -0.06 min

Lab File: BF099051.D

Acq: 4 Oct 2017 00:57

Instrument :

BNA_F

ClientSampleId :

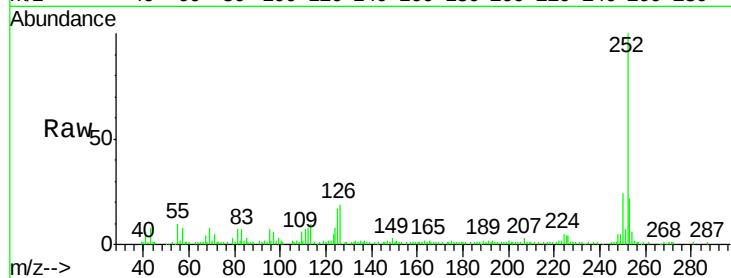
Tot Ion:252 Resp: 125990

Ion Ratio Lower Upper

252 100

253 22.0 17.0 25.6

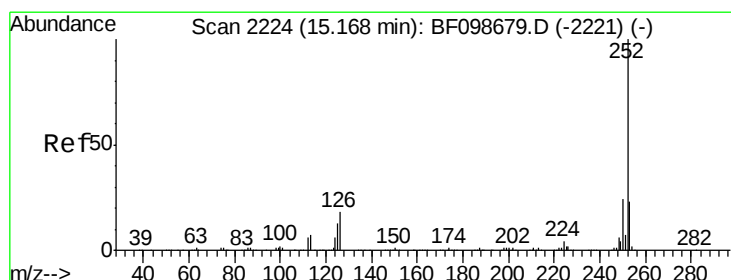
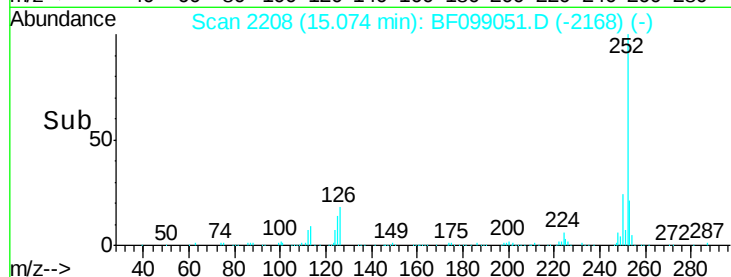
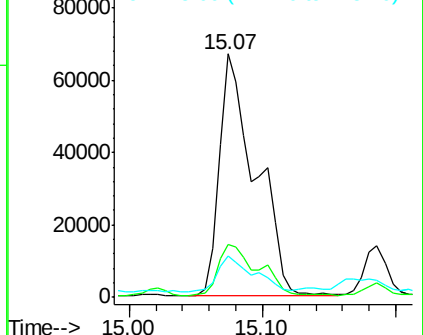
125 17.1 9.0 13.6#



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: 7.84 ng

RT: 15.07 min Scan# 2208

Delta R.T. -0.09 min

Lab File: BF099051.D

Acq: 4 Oct 2017 00:57

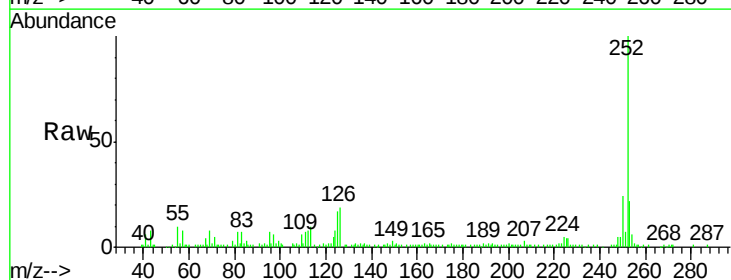
Tgt Ion:252 Resp: 125990

Ion Ratio Lower Upper

252 100

253 22.0 17.9 26.9

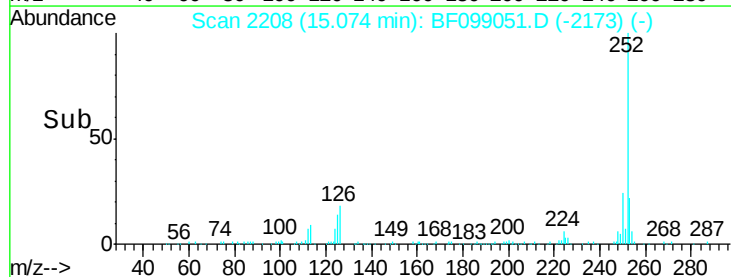
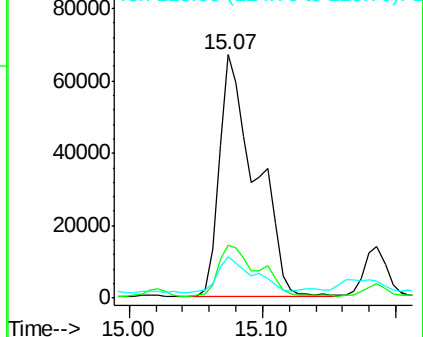
125 17.1 10.2 15.2#

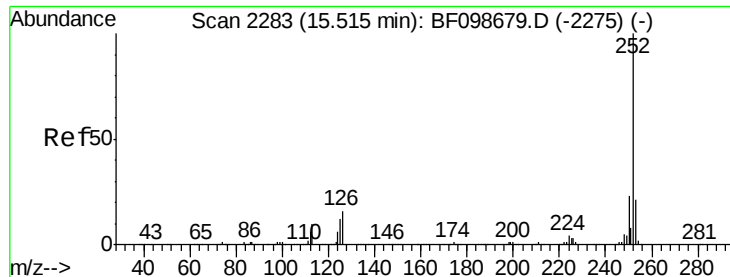


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

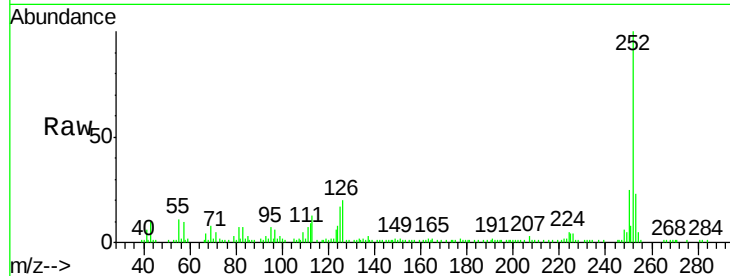




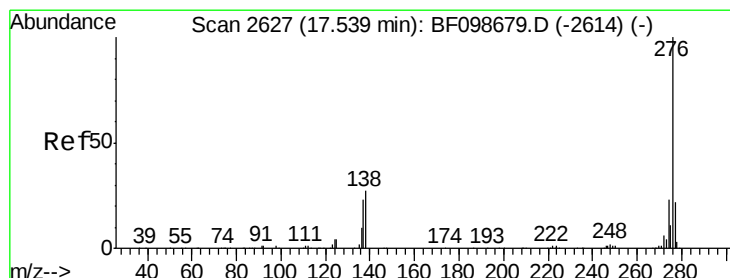
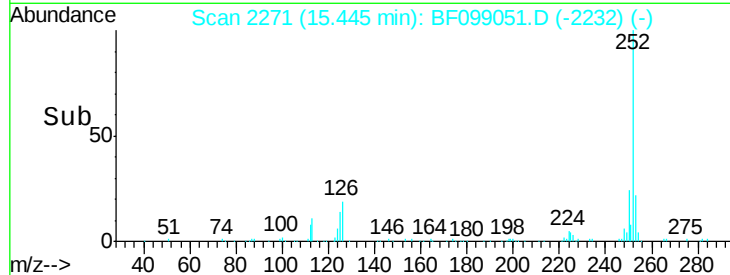
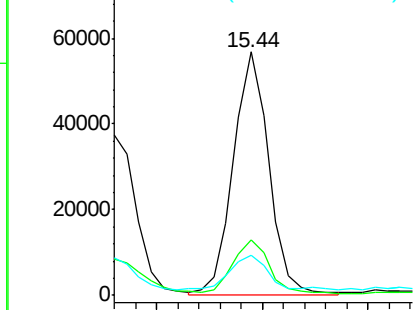
#89
Benzo(a)pyrene
Concen: 4.42 ng
RT: 15.44 min Scan# 2271
Delta R.T. -0.07 min
Lab File: BF099051.D
Acq: 4 Oct 2017 00:57

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.1	25.7
125	16.5	9.8	14.6

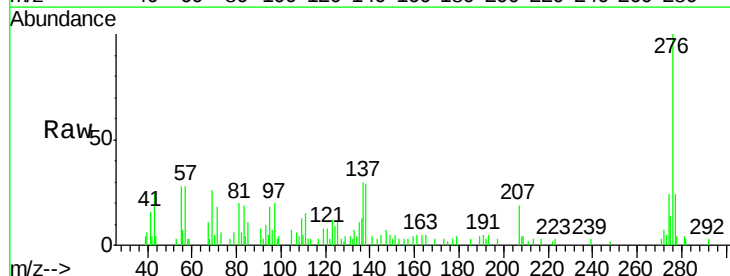


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#91
Benzo(g,h,i)perylene
Concen: 2.18 ng
RT: 17.43 min Scan# 2609
Delta R.T. -0.11 min
Lab File: BF099051.D
Acq: 4 Oct 2017 00:57

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.4	17.9	26.9
138	29.3	21.8	32.8



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

