

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091818\
 Data File : BF109099.D
 Acq On : 18 Sep 2018 16:53
 Operator : JU/SJ
 Sample : J4936-31 5X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Sep 18 17:58:24 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091418.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Sep 14 13:26:52 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	129035	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	484390	20.00	ng	0.00
38) Acenaphthene-d10	9.76	164	212348	20.00	ng	0.00
63) Phenanthrene-d10	11.24	188	339557	20.00	ng	0.00
75) Chrysene-d12	13.87	240	287665	20.00	ng	0.00
86) Perylene-d12	15.28	264	309185	20.00	ng	0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	110750	14.26	ng	0.00
7) Phenol-d6	6.35	99	153737	15.35	ng	-0.01
23) Nitrobenzene-d5	7.28	82	108560	12.57	ng	-0.01
41) 2,4,6-Tribromophenol	10.54	330	25841	11.21	ng	0.00
44) 2-Fluorobiphenyl	9.08	172	161216	11.89	ng	0.00
78) Terphenyl-d14	12.82	244	103084	8.49	ng	0.00

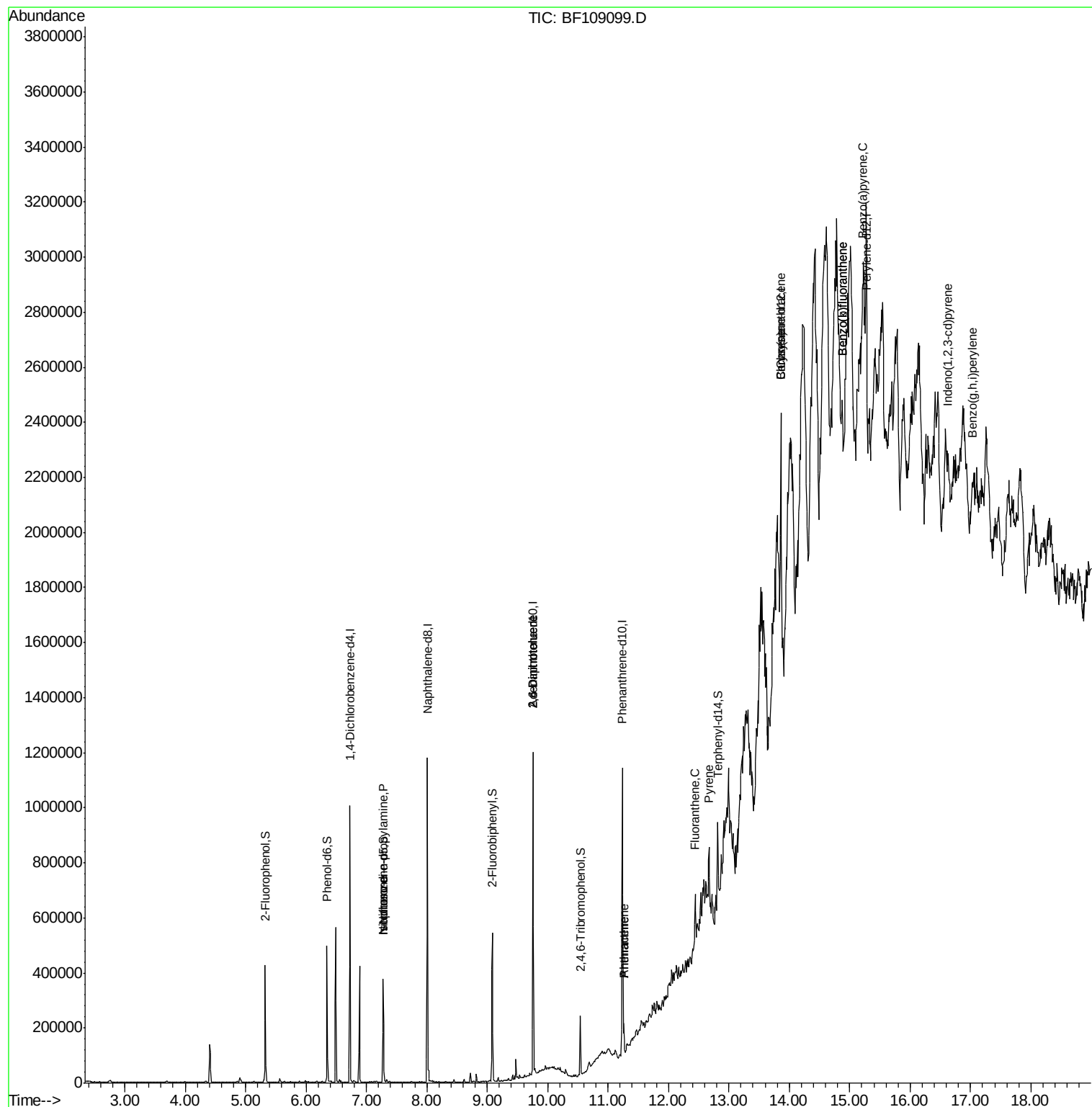
Target Compounds				Qvalue		
19) n-Nitroso-di-n-propylamine	7.28	70	14308	2.161	ng	# 78
25) Isophorone	7.28	82	106396	7.167	ng	# 64
50) 2,6-Dinitrotoluene	9.76	165	28354	8.424	ng	# 26
56) 2,4-Dinitrotoluene	9.76	165	28354	6.441	ng	# 24
70) Phenanthrene	11.26	178	35411	2.127	ng	98
71) Anthracene	11.26	178	35411	2.099	ng	98
74) Fluoranthene	12.44	202	67886	3.863	ng	96
77) Pyrene	12.67	202	65500	3.065	ng	97
80) Benzo(a)anthracene	13.85	228	51086	2.933	ng	99
82) Chrysene	13.85	228	51777	2.971	ng	96
85) Indeno(1,2,3-cd)pyrene	16.62	276	39887	2.863	ng	95
87) Benzo(b)fluoranthene	14.87	252	109371	6.394	ng	# 40
88) Benzo(k)fluoranthene	14.87	252	109371	6.846	ng	# 43
89) Benzo(a)pyrene	15.21	252	61439	4.045	ng	# 16
91) Benzo(a,h,i)perylene	17.03	276	39440	3.091	ng	# 63

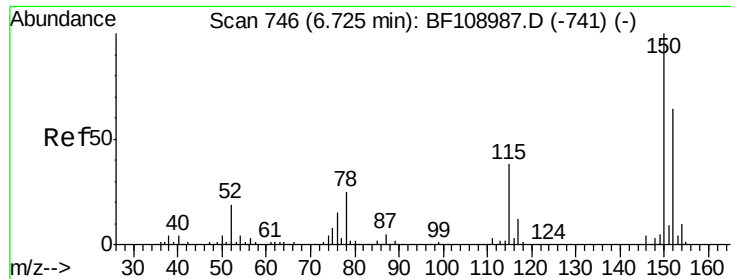
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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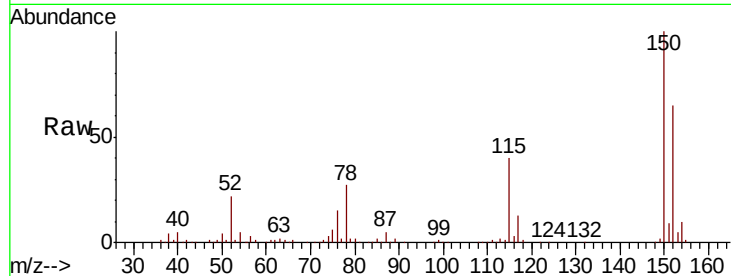




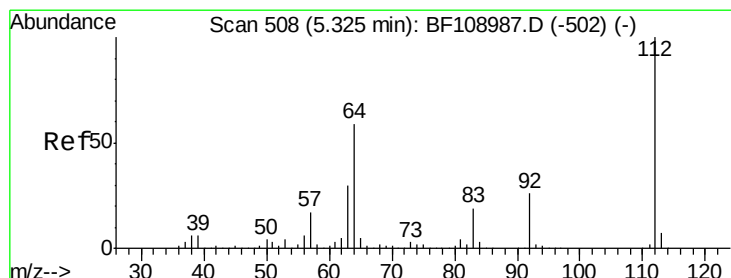
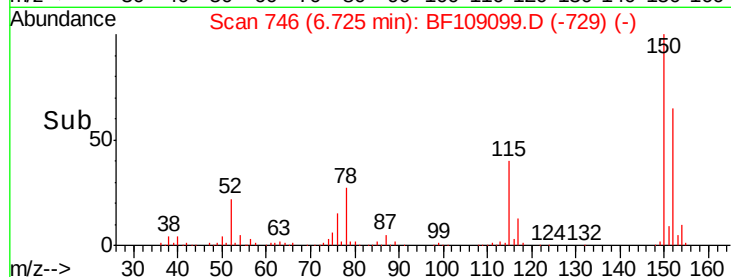
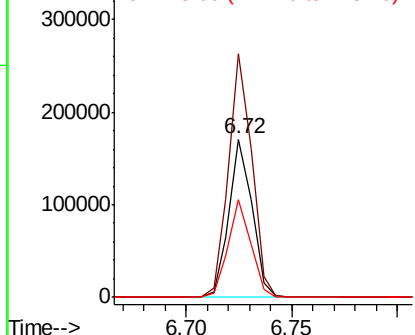
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.72 min Scan# 746
 Delta R.T. -0.00 min
 Lab File: BF109099.D
 Acq: 18 Sep 2018 16:53

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:152 Resp: 129035
 Ion Ratio Lower Upper
 152 100
 150 153.9 124.6 186.8
 115 61.8 50.1 75.1

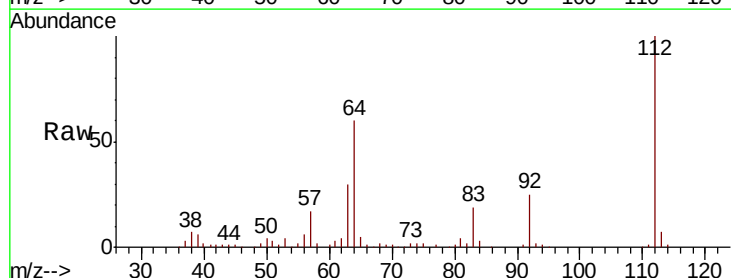


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

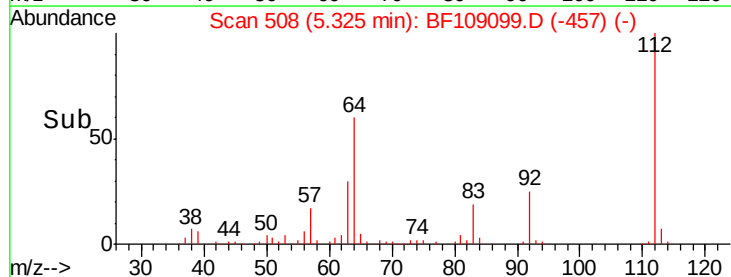
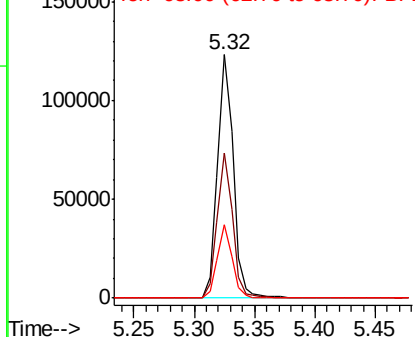


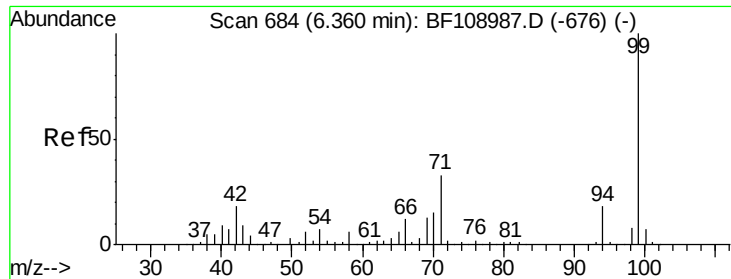
#5
 2-Fluorophenol
 Concen: 14.255 ng
 RT: 5.32 min Scan# 508
 Delta R.T. 0.00 min
 Lab File: BF109099.D
 Acq: 18 Sep 2018 16:53

Tgt Ion:112 Resp: 110750
 Ion Ratio Lower Upper
 112 100
 64 59.7 47.9 71.9
 63 29.9 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E
 Ion 64.00 (63.70 to 64.70): BF1
 Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 15.346 ng

RT: 6.35 min Scan# 682

Delta R.T. -0.01 min

Lab File: BF109099.D

Acq: 18 Sep 2018 16:53

Instrument :

BNA_F

ClientSampled :

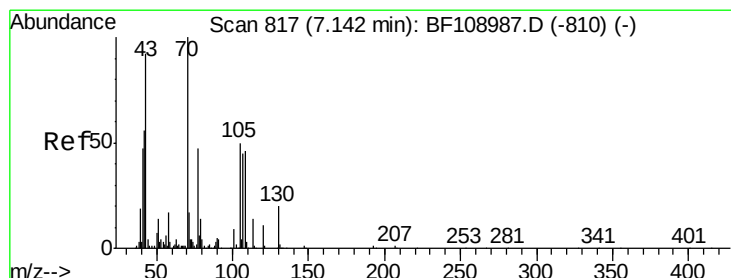
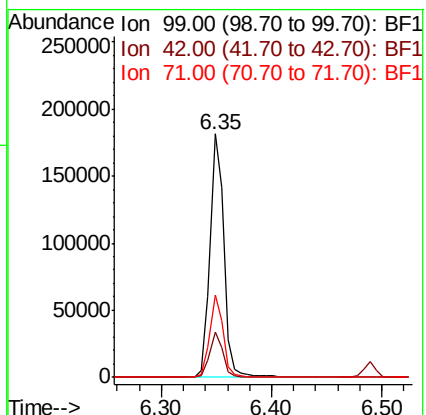
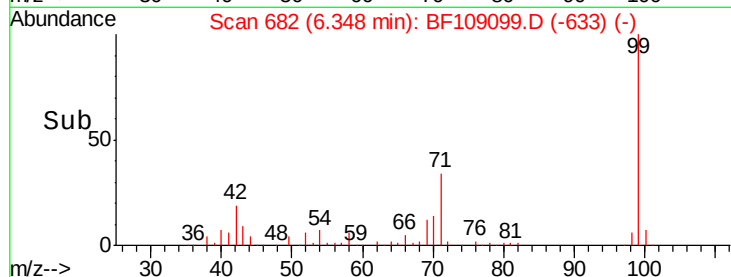
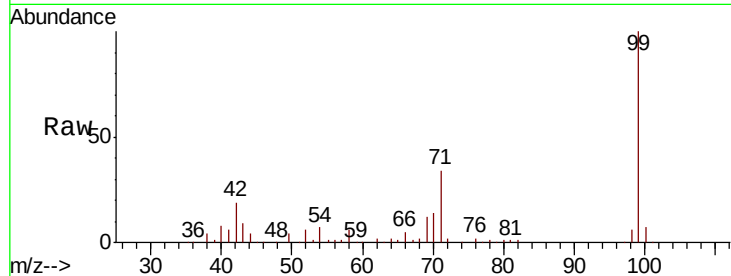
Tot Ion: 99 Resp: 153737

Ion Ratio Lower Upper

99 100

42 18.7 14.5 21.7

71 33.7 25.4 38.0



#19

n-Nitroso-di-n-propylamine

Concen: 2.161 ng

RT: 7.28 min Scan# 840

Delta R.T. 0.14 min

Lab File: BF109099.D

Acq: 18 Sep 2018 16:53

Tgt Ion: 70 Resp: 14308

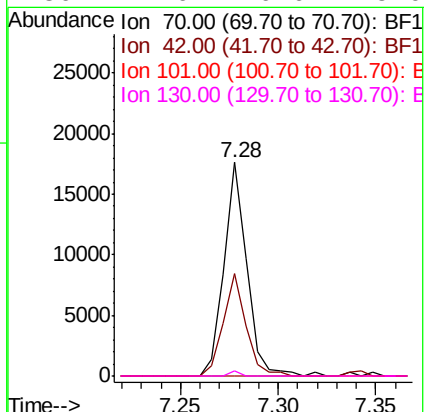
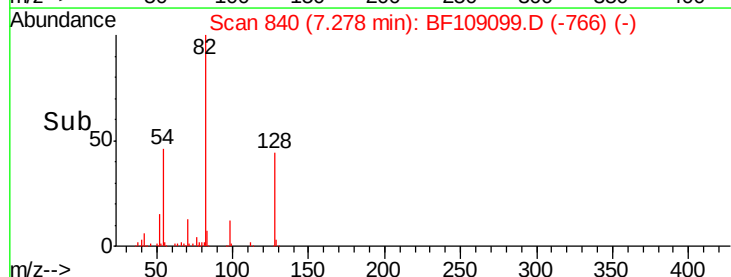
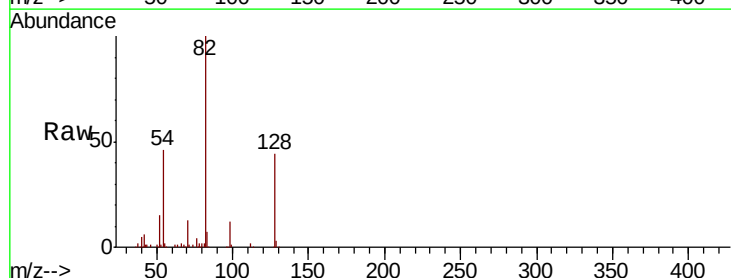
Ion Ratio Lower Upper

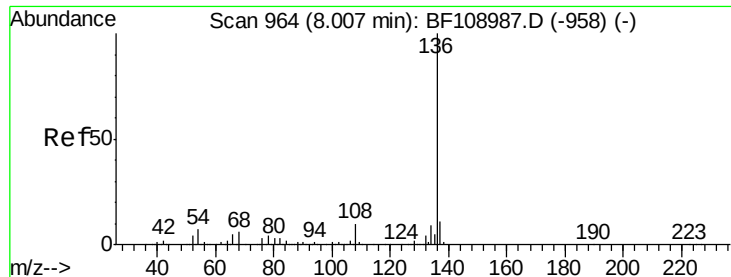
70 100

42 48.1 47.5 71.3

101 0.0 7.4 11.2#

130 2.6 16.6 25.0#

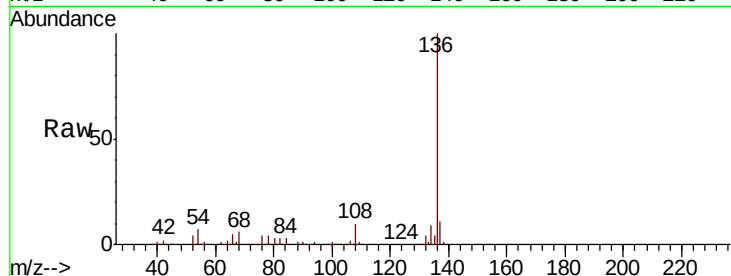




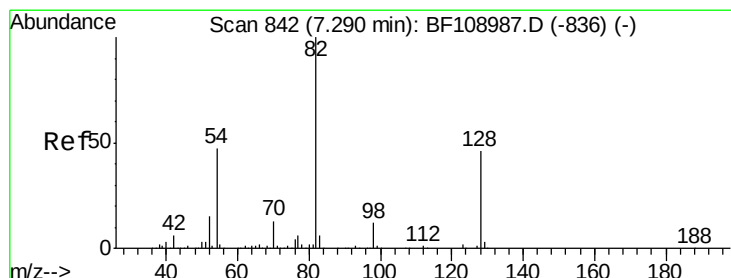
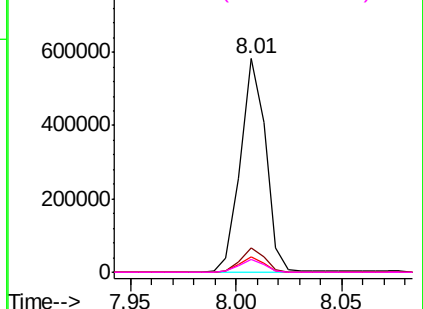
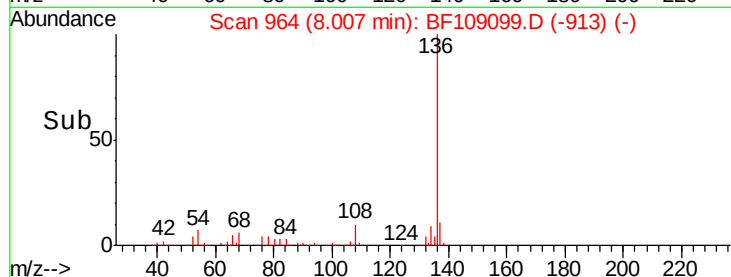
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.01 min Scan# 964
Delta R.T. -0.00 min
Lab File: BF109099.D
Acq: 18 Sep 2018 16:53

Instrument :
BNA_F
ClientSampleId :

Tot Ion:136	Resp:	484390
Ion Ratio	Lower	Upper
136 100		
137 11.2	8.9	13.3
54 7.5	6.6	9.8
68 6.1	5.0	7.4

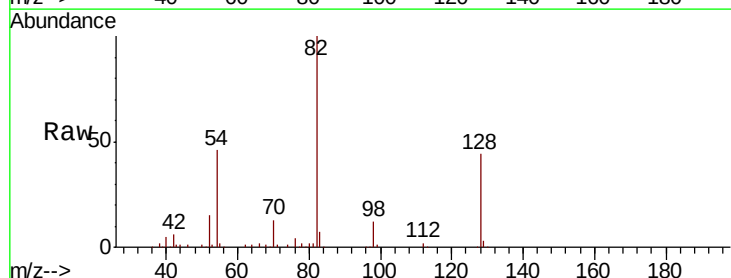


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

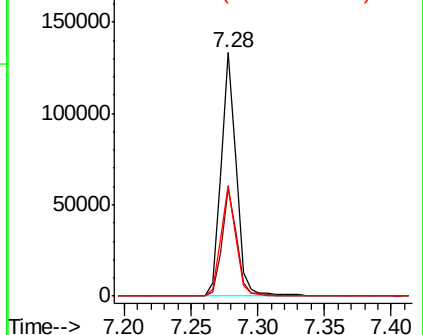
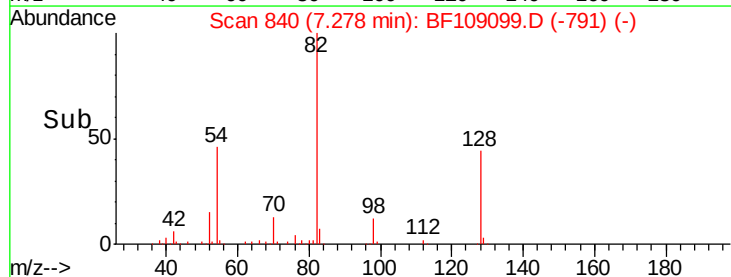


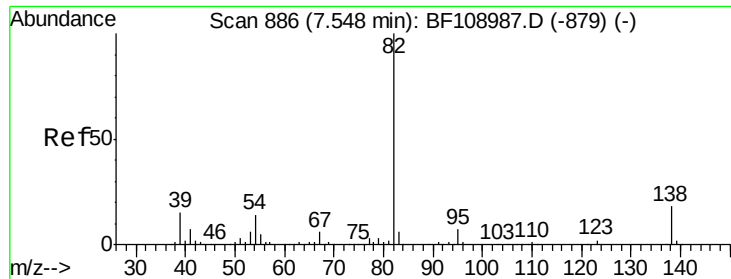
#23
Nitrobenzene-d5
Concen: 12.570 ng
RT: 7.28 min Scan# 840
Delta R.T. -0.01 min
Lab File: BF109099.D
Acq: 18 Sep 2018 16:53

Tgt Ion: 82	Resp: 108560
Ion Ratio	Lower Upper
82 100	
128 44.5	36.1 54.1
54 45.6	41.4 62.2



Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 7.167 ng

RT: 7.28 min Scan# 840

Delta R.T. -0.27 min

Lab File: BF109099.D

Acq: 18 Sep 2018 16:53

Instrument :

BNA_F

ClientSampleId :

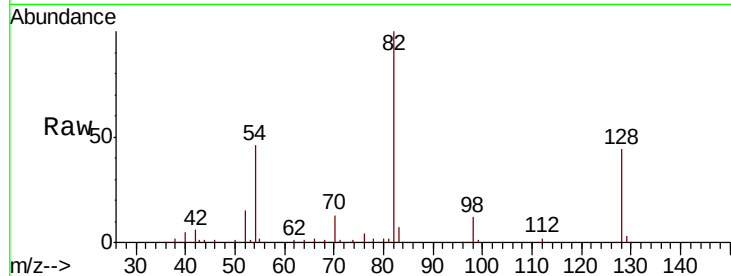
Tot Ion: 82 Resp: 106396

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

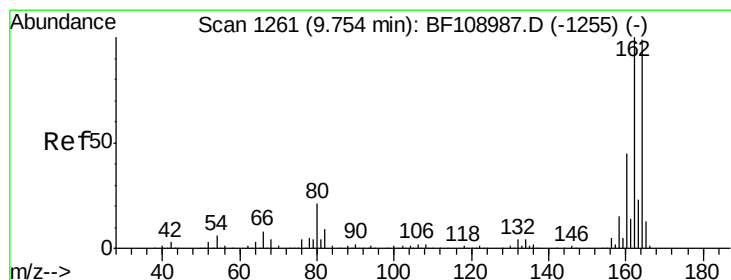
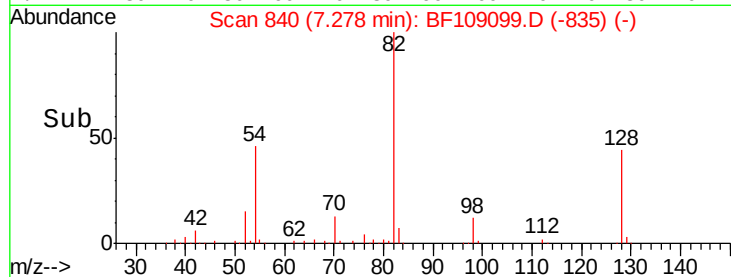
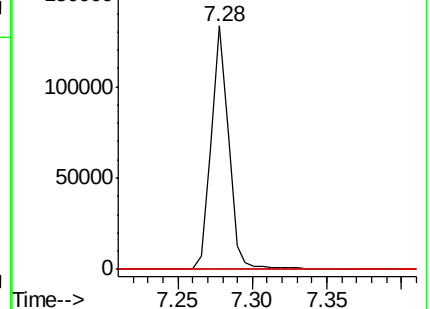
138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.76 min Scan# 1262

Delta R.T. 0.01 min

Lab File: BF109099.D

Acq: 18 Sep 2018 16:53

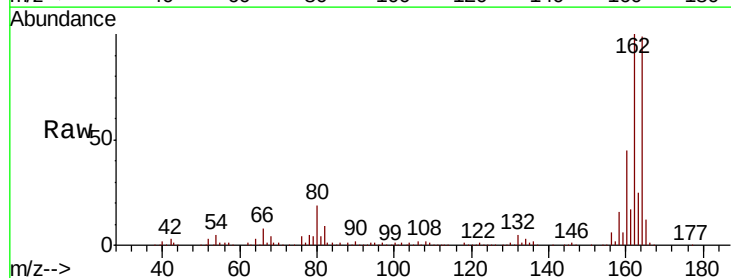
Tgt Ion: 164 Resp: 212348

Ion Ratio Lower Upper

164 100

162 101.4 86.1 129.1

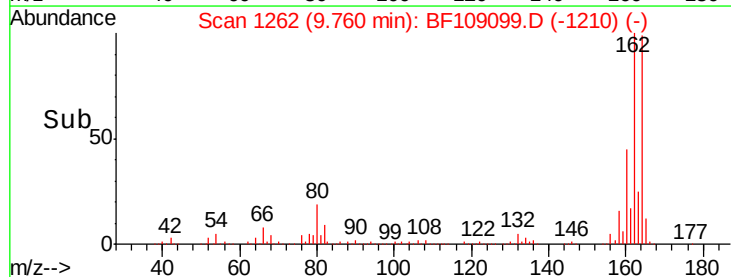
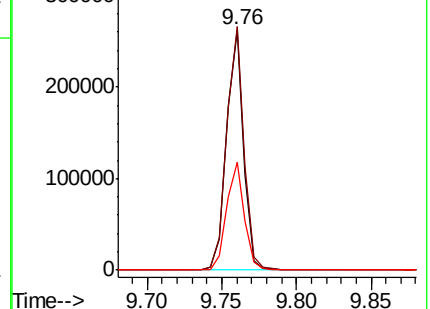
160 45.2 38.3 57.5

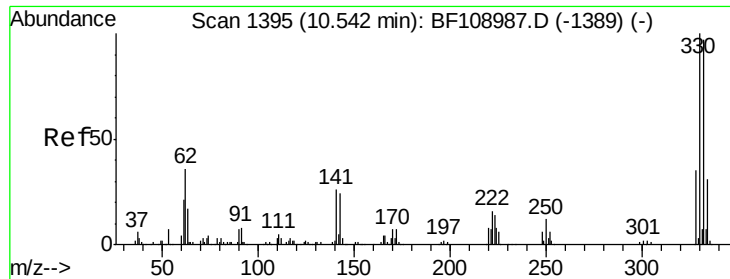


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

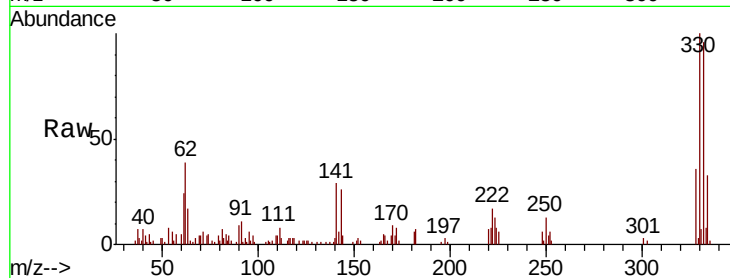




#41
 2,4,6-Tribromophenol
 Concen: 11.213 ng
 RT: 10.54 min Scan# 1395
 Delta R.T. -0.00 min
 Lab File: BF109099.D
 Acq: 18 Sep 2018 16:53

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	93.8	77.0	115.6
141	36.3	29.9	44.9

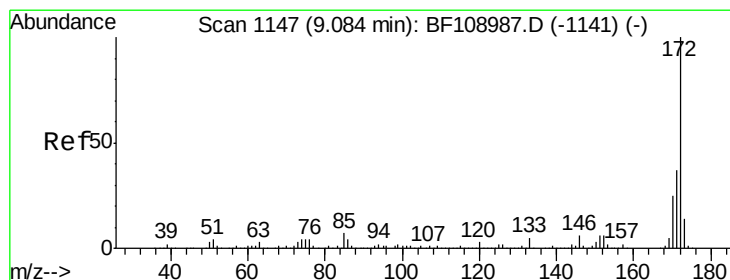
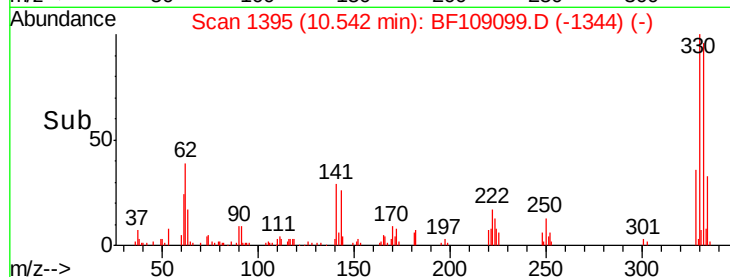
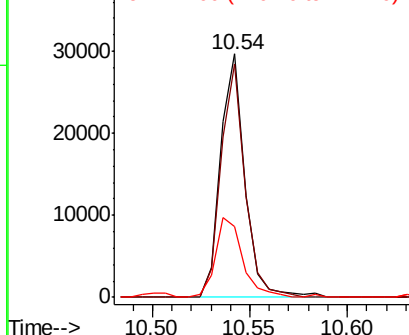


Abundance

Ion 329.80 (329.50 to 330.50): E

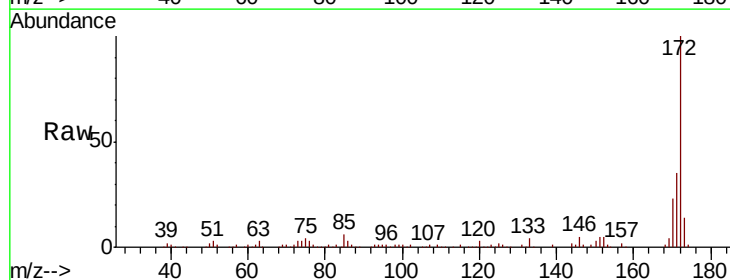
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44
 2-Fluorobiphenyl
 Concen: 11.895 ng
 RT: 9.08 min Scan# 1147
 Delta R.T. 0.00 min
 Lab File: BF109099.D
 Acq: 18 Sep 2018 16:53

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.9	29.7	44.5
170	23.0	19.6	29.4

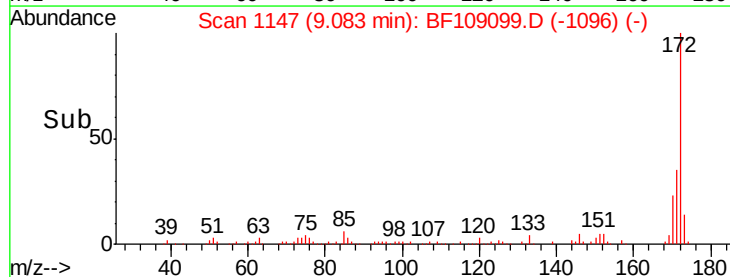
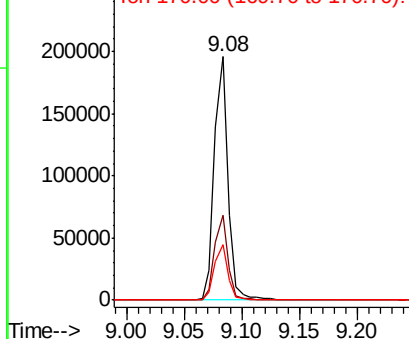


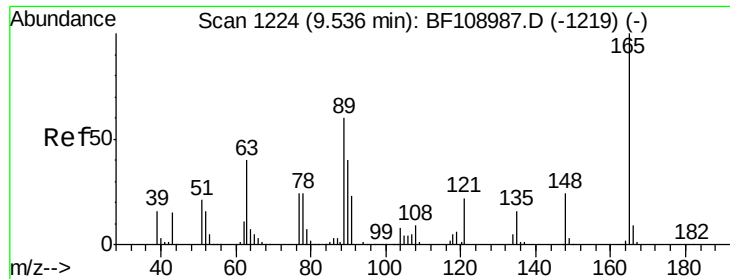
Abundance

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

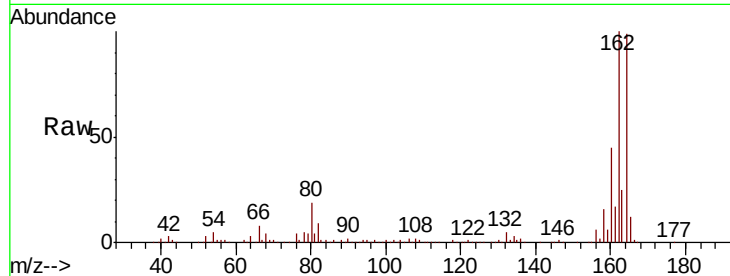




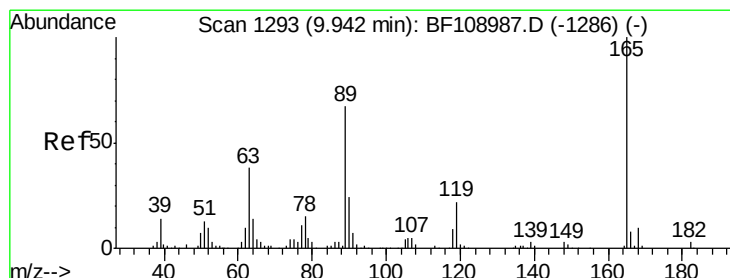
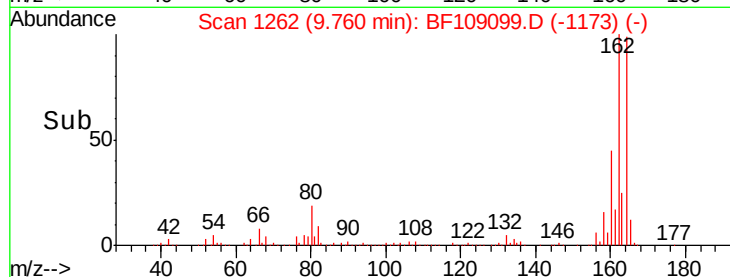
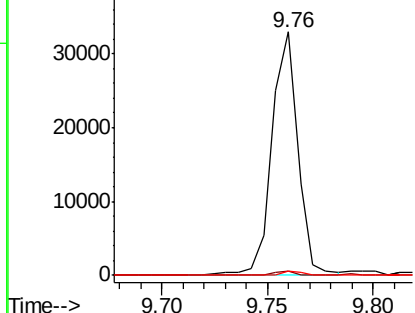
#50
 2,6-Dinitrotoluene
 Concen: 8.424 ng
 RT: 9.76 min Scan# 1262
 Delta R.T. 0.22 min
 Lab File: BF109099.D
 Acq: 18 Sep 2018 16:53

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.6	44.7	67.1#
89	1.8	44.0	66.0#



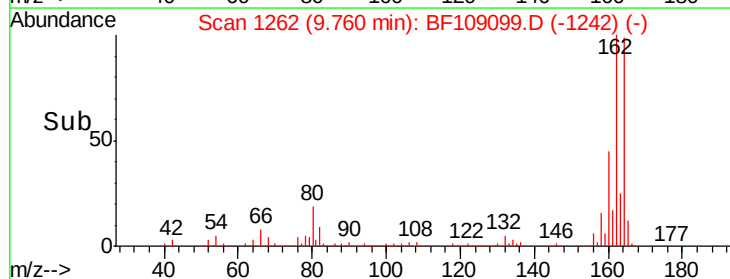
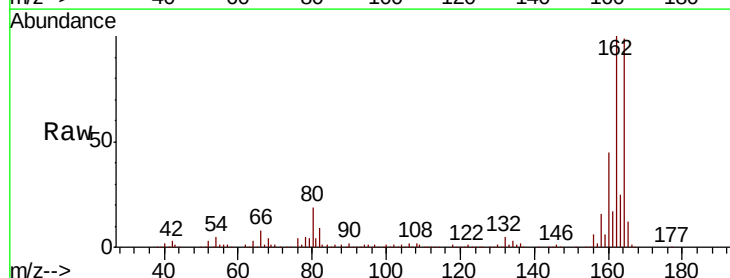
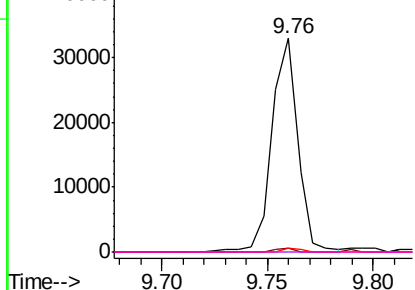
Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF1
 Ion 89.00 (88.70 to 89.70): BF1

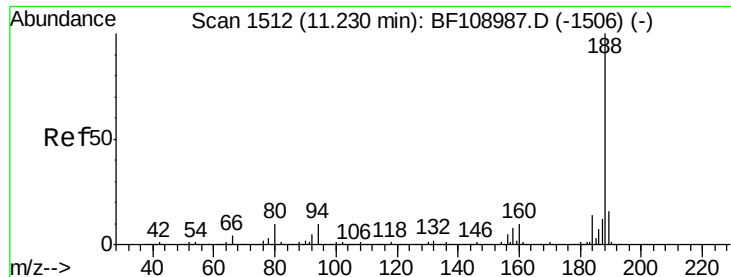


#56
 2,4-Dinitrotoluene
 Concen: 6.441 ng
 RT: 9.76 min Scan# 1262
 Delta R.T. -0.18 min
 Lab File: BF109099.D
 Acq: 18 Sep 2018 16:53

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.6	36.4	54.6#
89	1.8	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): BF1
 Ion 89.00 (88.70 to 89.70): BF1
 Ion 182.00 (181.70 to 182.70): E

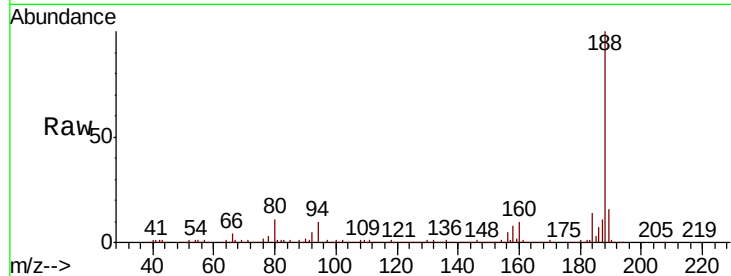




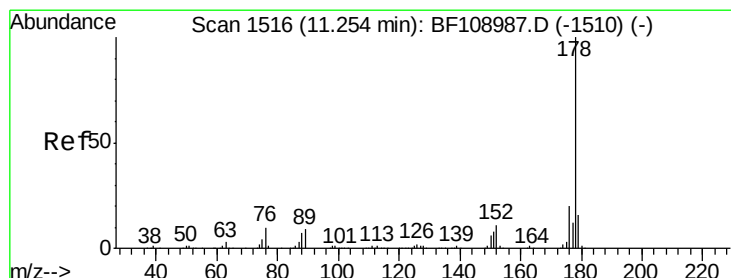
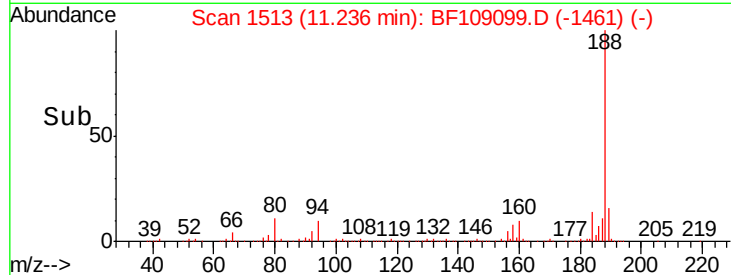
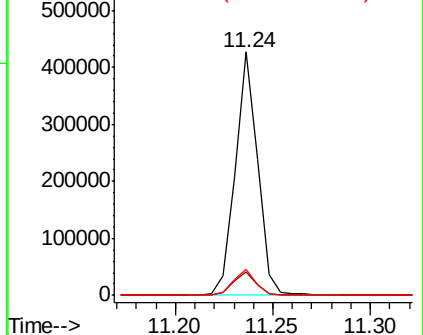
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.24 min Scan# 1513
Delta R.T. 0.01 min
Lab File: BF109099.D
Acq: 18 Sep 2018 16:53

Instrument :
BNA_F
ClientSampled :

Tot Ion:188 Resp: 339557
Ion Ratio Lower Upper
188 100
94 9.7 8.5 12.7
80 10.7 9.2 13.8

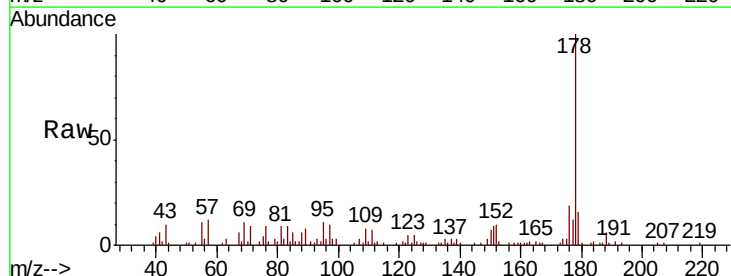


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1

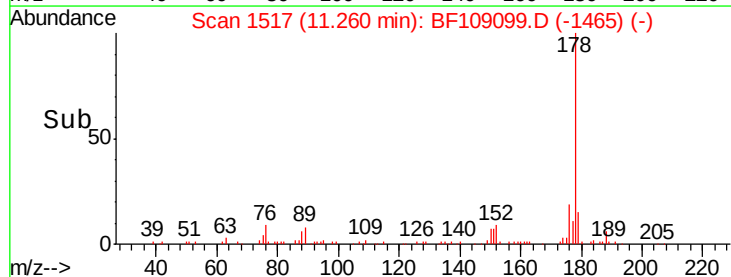
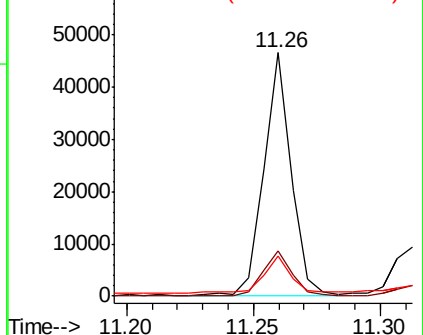


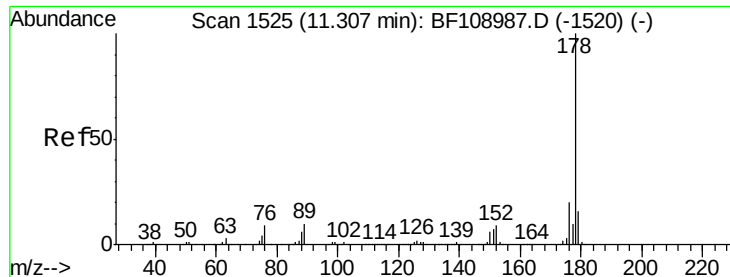
#70
Phenanthrene
Concen: 2.127 ng
RT: 11.26 min Scan# 1517
Delta R.T. 0.01 min
Lab File: BF109099.D
Acq: 18 Sep 2018 16:53

Tgt Ion:178 Resp: 35411
Ion Ratio Lower Upper
178 100
176 18.7 15.8 23.8
179 16.5 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

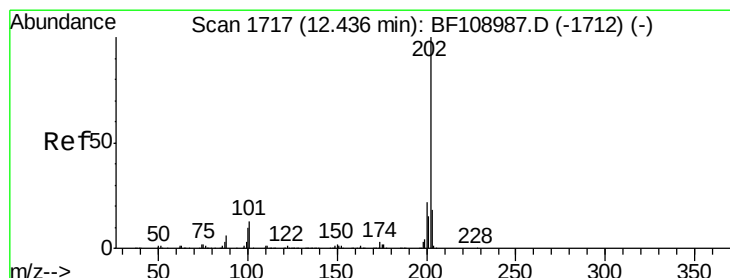
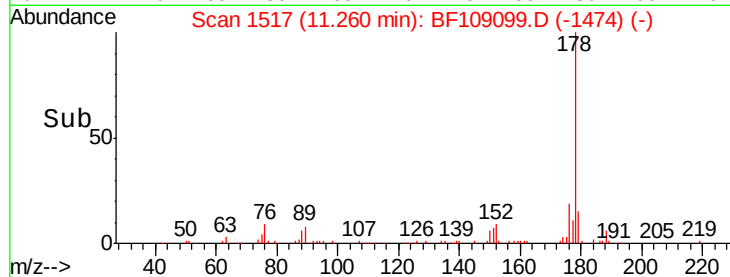
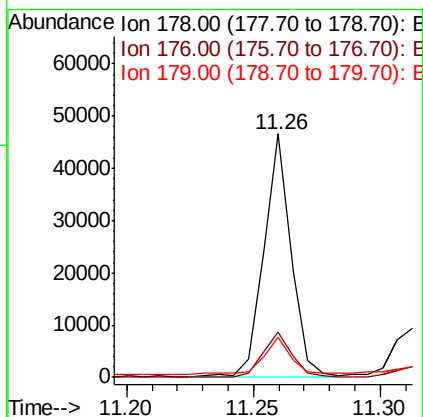
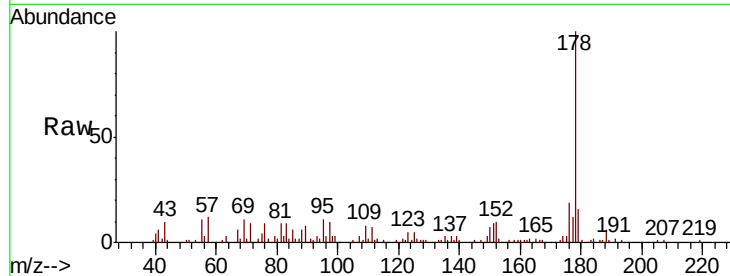




#71
 Anthracene
 Concen: 2.099 ng
 RT: 11.26 min Scan# 1517
 Delta R.T. -0.05 min
 Lab File: BF109099.D
 Acq: 18 Sep 2018 16:53

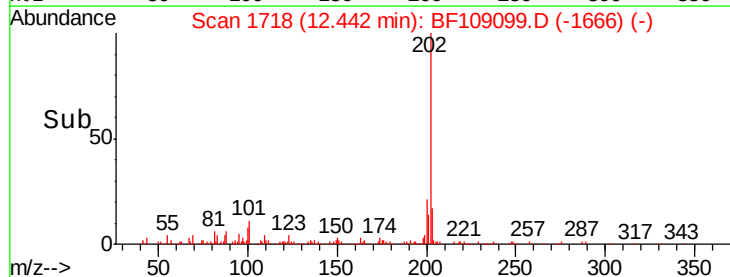
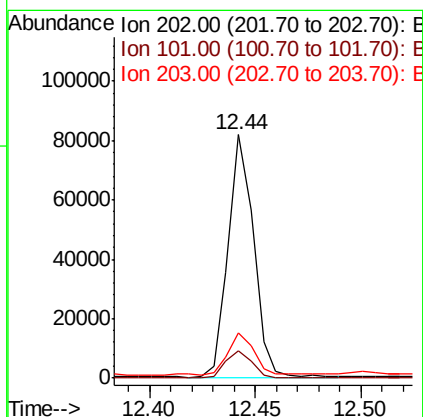
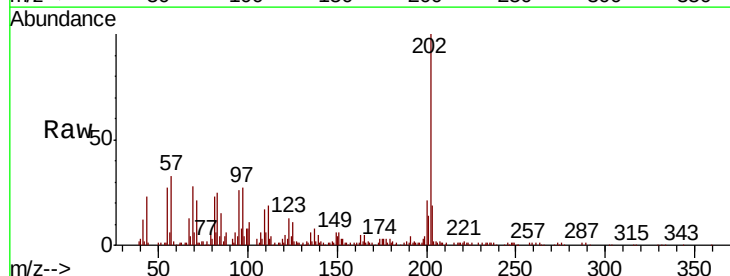
Instrument :
 BNA_F
 ClientSampleId :

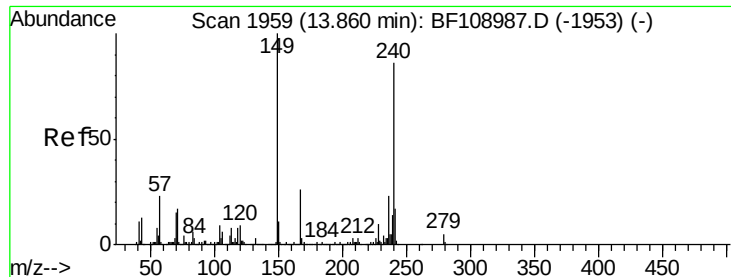
Tot Ion:178 Resp: 35411
 Ion Ratio Lower Upper
 178 100
 176 18.7 15.4 23.2
 179 16.5 12.6 19.0



#74
 Fluoranthene
 Concen: 3.863 ng
 RT: 12.44 min Scan# 1718
 Delta R.T. 0.01 min
 Lab File: BF109099.D
 Acq: 18 Sep 2018 16:53

Tgt Ion:202 Resp: 67886
 Ion Ratio Lower Upper
 202 100
 101 11.2 0.0 34.1
 203 18.8 0.0 38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.87 min Scan# 1960

Delta R.T. 0.01 min

Lab File: BF109099.D

Acq: 18 Sep 2018 16:53

Instrument :

BNA_F

ClientSampleId :

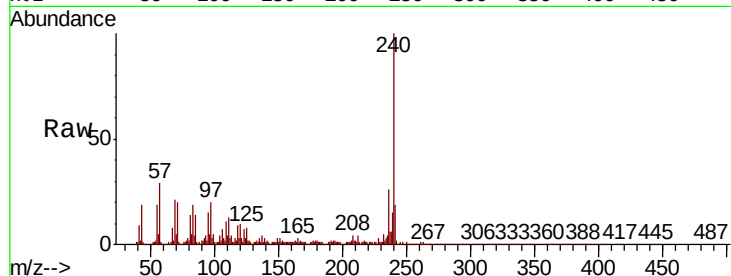
Tot Ion:240 Resp: 287665

Ion Ratio Lower Upper

240 100

120 10.5 9.5 14.3

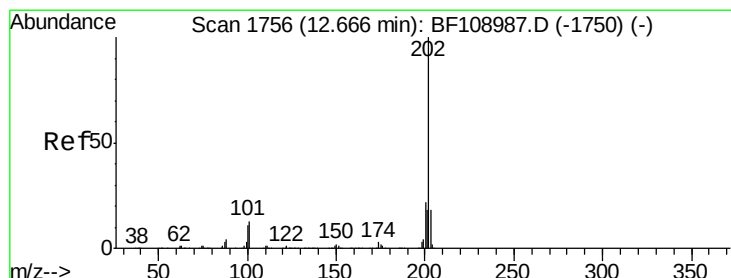
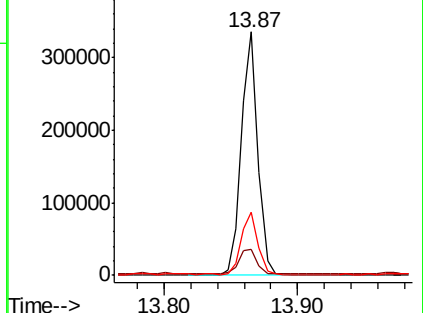
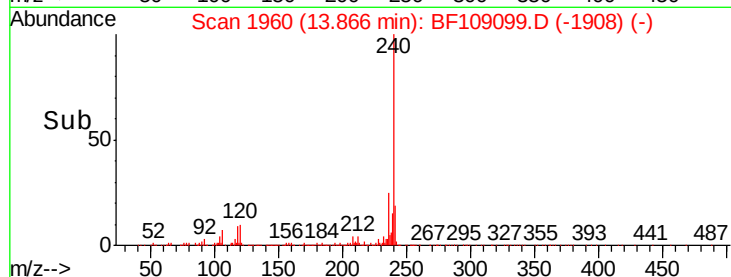
236 25.7 20.7 31.1



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

Pyrene

Concen: 3.065 ng

RT: 12.67 min Scan# 1757

Delta R.T. 0.01 min

Lab File: BF109099.D

Acq: 18 Sep 2018 16:53

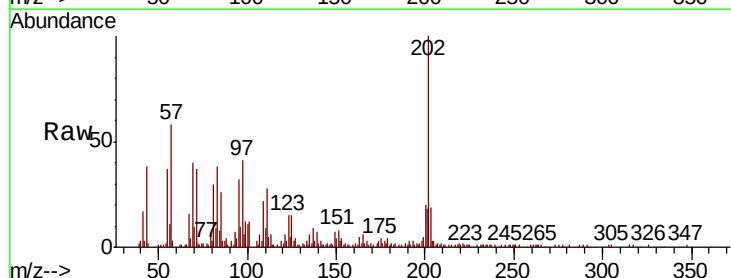
Tgt Ion:202 Resp: 65500

Ion Ratio Lower Upper

202 100

200 20.1 17.4 26.2

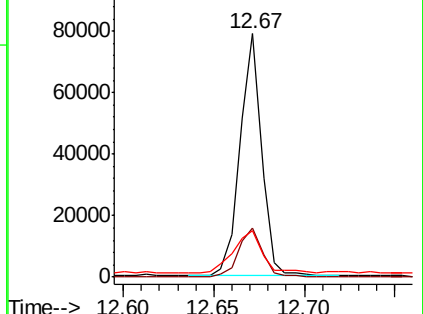
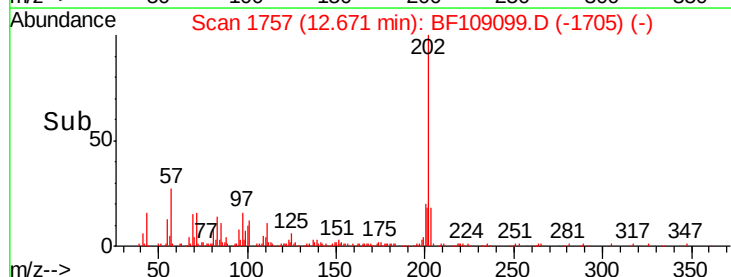
203 18.9 14.3 21.5

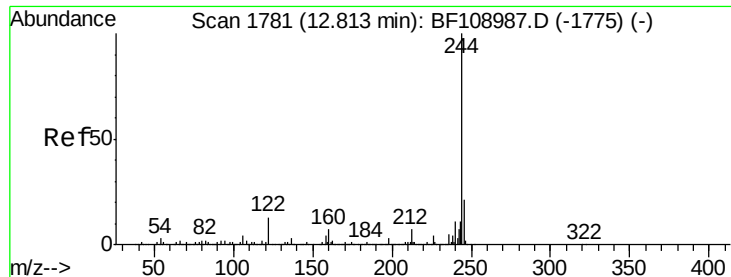


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 8.494 ng

RT: 12.82 min Scan# 1782

Delta R.T. 0.01 min

Lab File: BF109099.D

Acq: 18 Sep 2018 16:53

Instrument :

BNA_F

ClientSampled :

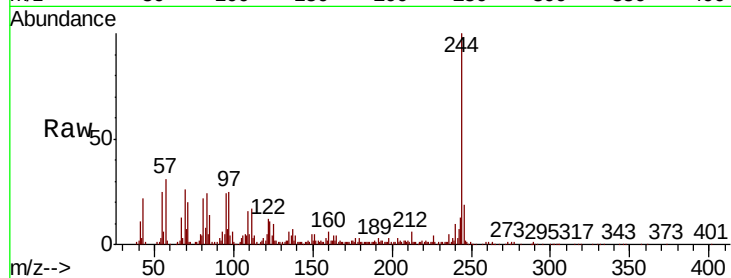
Tot Ion:244 Resp: 103084

Ion Ratio Lower Upper

244 100

212 6.0 5.4 8.0

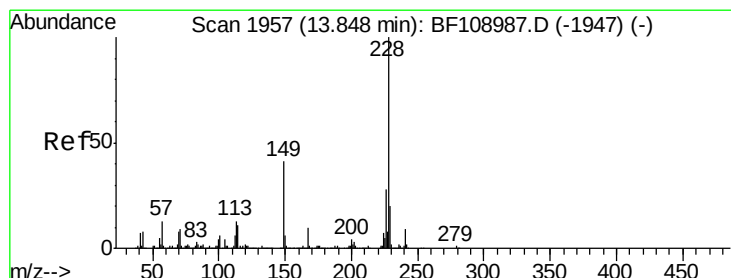
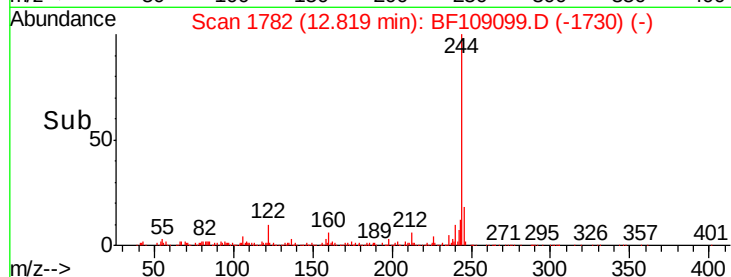
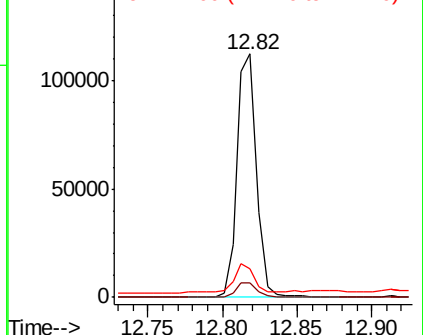
122 11.8 11.0 16.4



Abundance Ion 244.00 (243.70 to 244.70): E

150000 Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 2.933 ng

RT: 13.85 min Scan# 1958

Delta R.T. 0.01 min

Lab File: BF109099.D

Acq: 18 Sep 2018 16:53

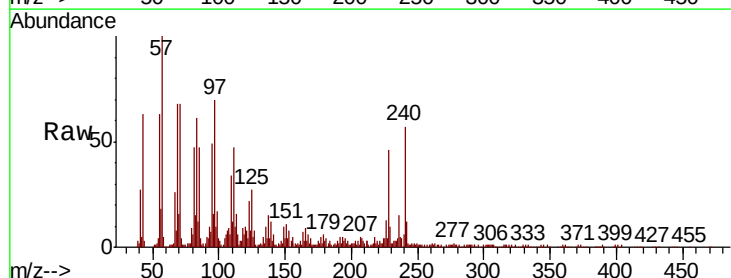
Tgt Ion:228 Resp: 51086

Ion Ratio Lower Upper

228 100

226 28.2 22.6 33.8

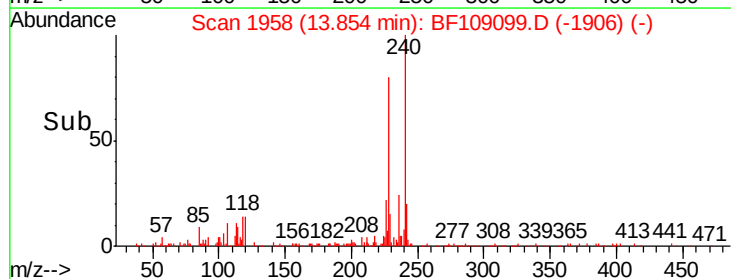
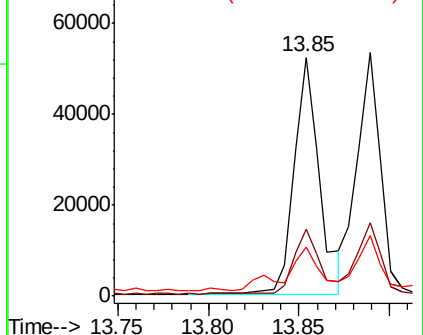
229 20.8 15.8 23.6

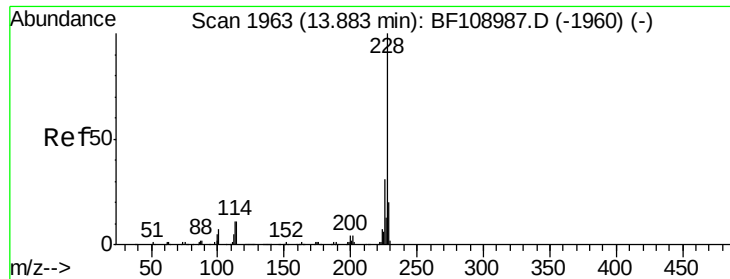


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 2.971 ng

RT: 13.85 min Scan# 1958

Delta R.T. -0.03 min

Lab File: BF109099.D

Acq: 18 Sep 2018 16:53

Instrument :

BNA_F

ClientSampleId :

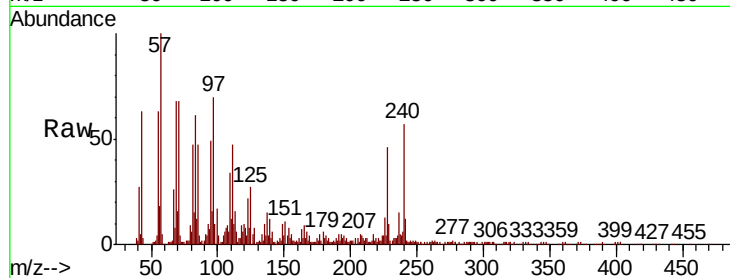
Tot Ion:228 Resp: 51777

Ion Ratio Lower Upper

228 100

226 28.2 25.0 37.6

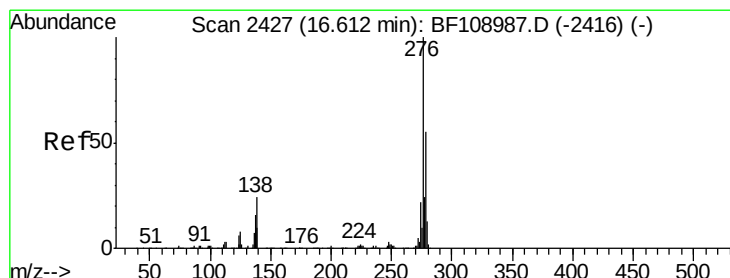
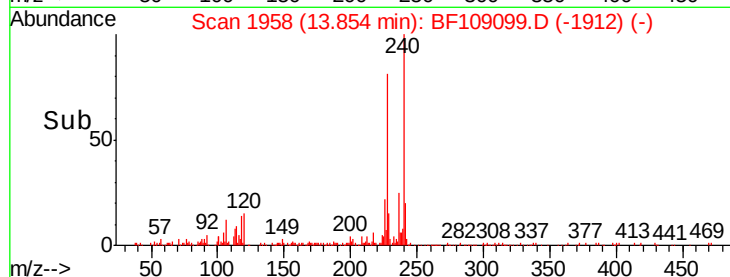
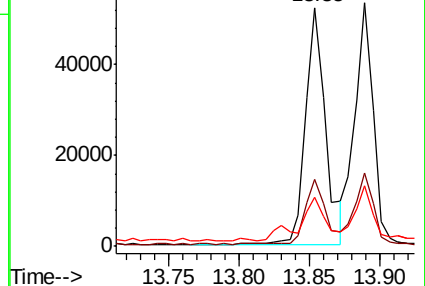
229 20.8 16.2 24.4



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: 2.863 ng

RT: 16.62 min Scan# 2429

Delta R.T. 0.01 min

Lab File: BF109099.D

Acq: 18 Sep 2018 16:53

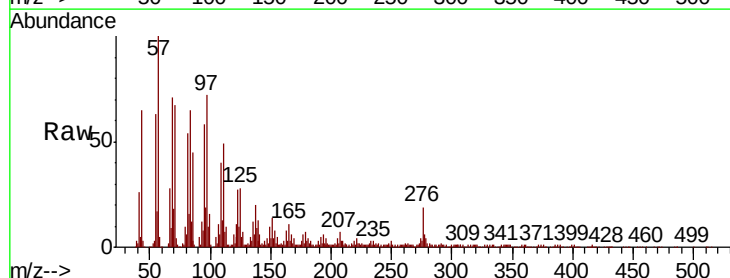
Tgt Ion:276 Resp: 39887

Ion Ratio Lower Upper

276 100

138 29.2 25.0 37.6

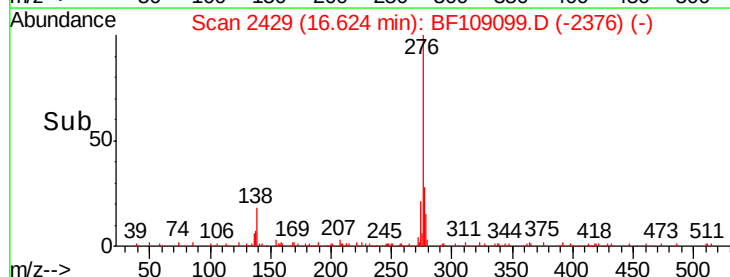
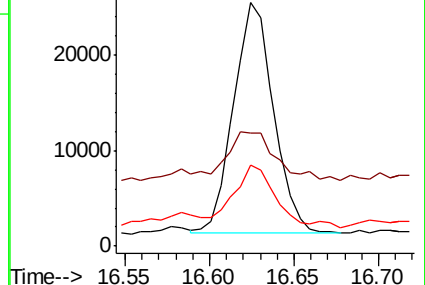
277 28.2 20.1 30.1

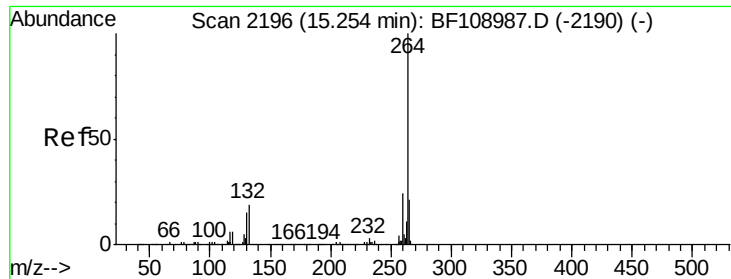


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

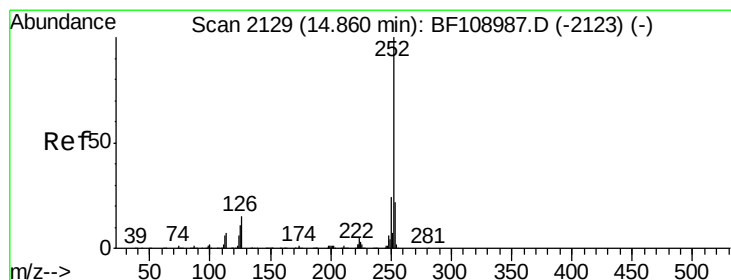
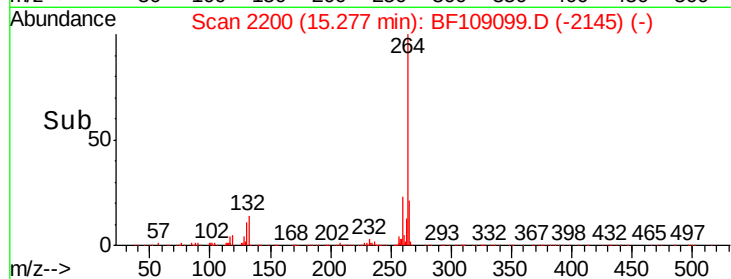
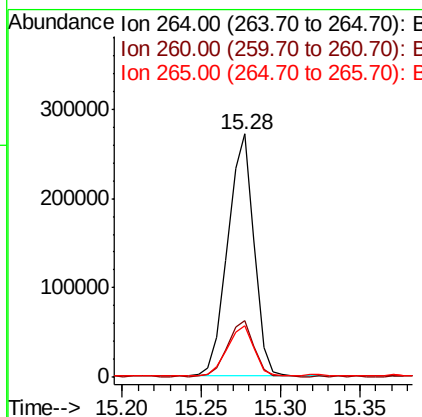
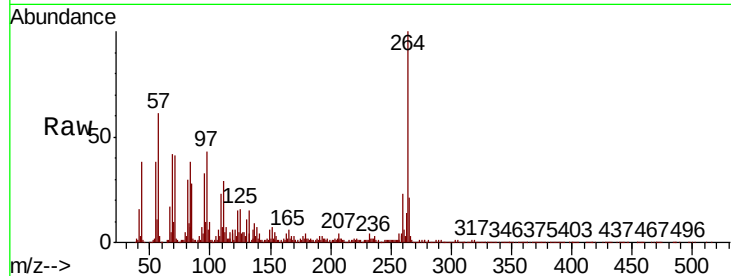




#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.28 min Scan# 2200
Delta R.T. 0.02 min
Lab File: BF109099.D
Acq: 18 Sep 2018 16:53

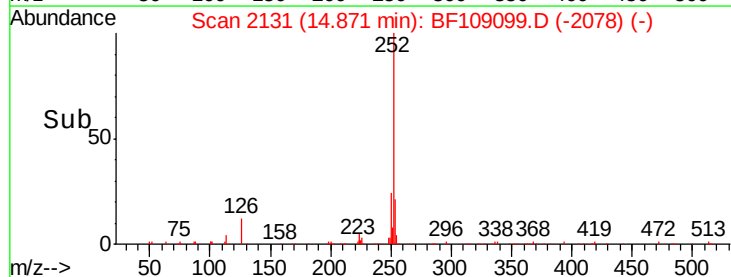
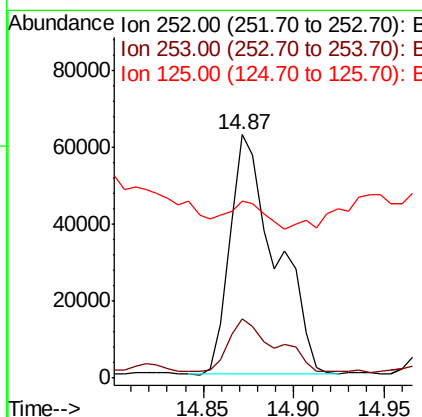
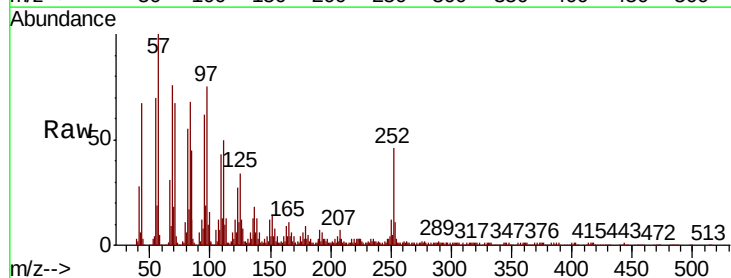
Instrument :
BNA_F
ClientSampleId :

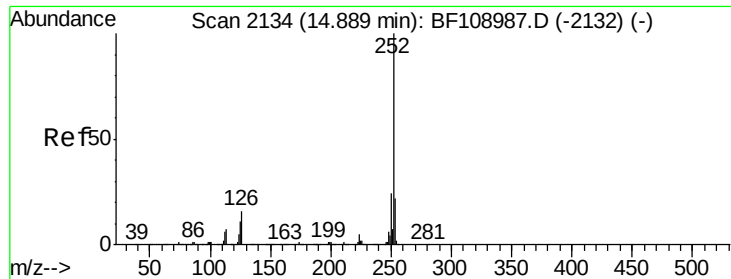
Tot Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.2	28.8
265	21.4	17.5	26.3



#87
Benzo(b)fluoranthene
Concen: 6.394 ng
RT: 14.87 min Scan# 2131
Delta R.T. 0.01 min
Lab File: BF109099.D
Acq: 18 Sep 2018 16:53

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.1	17.0	25.6
125	72.9	9.0	13.6#

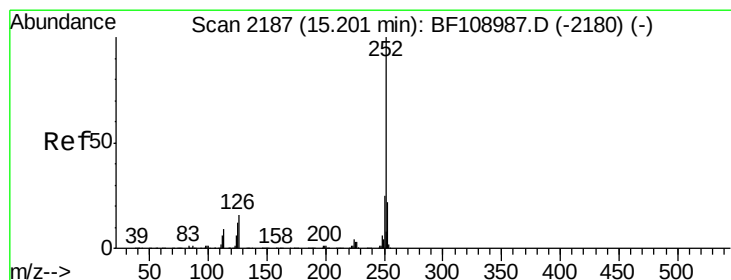
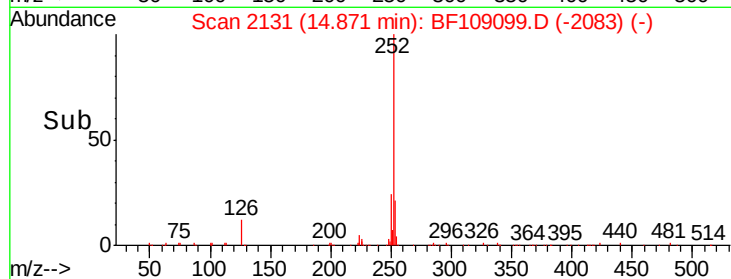
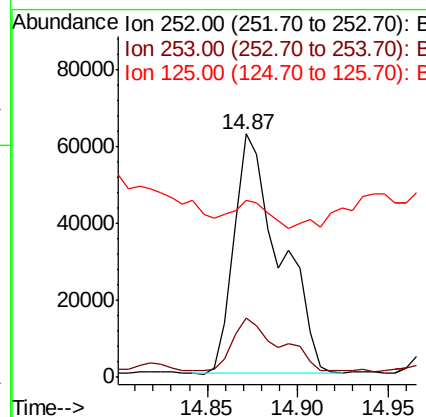
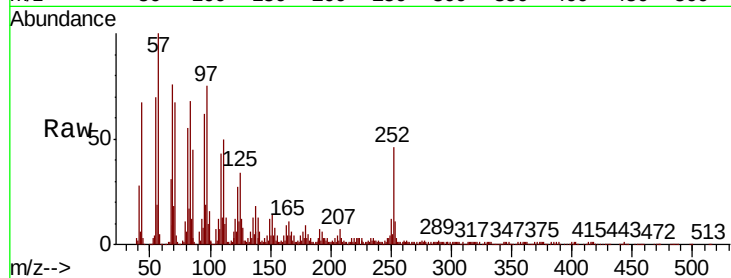




#88
Benzo(k)fluoranthene
Concen: 6.846 ng
RT: 14.87 min Scan# 2131
Delta R.T. -0.02 min
Lab File: BF109099.D
Acq: 18 Sep 2018 16:53

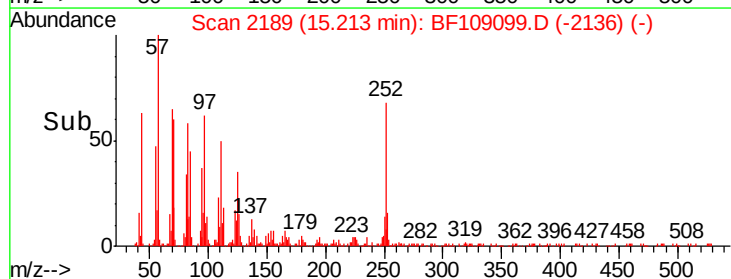
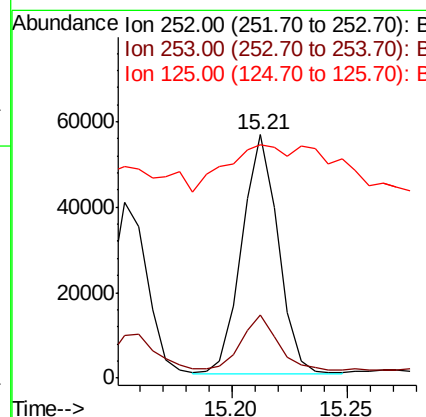
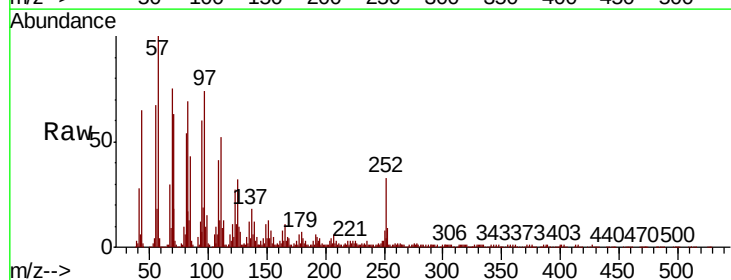
Instrument :
BNA_F
ClientSampleId :

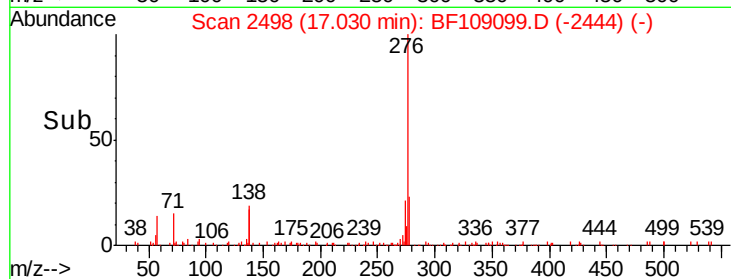
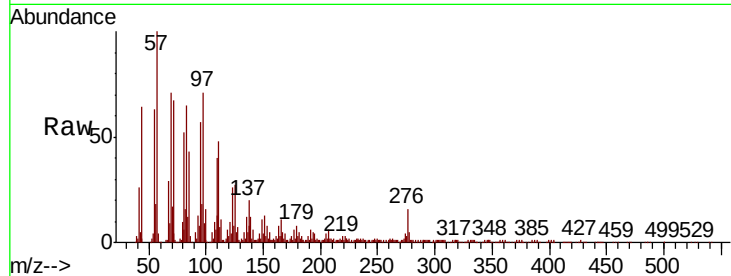
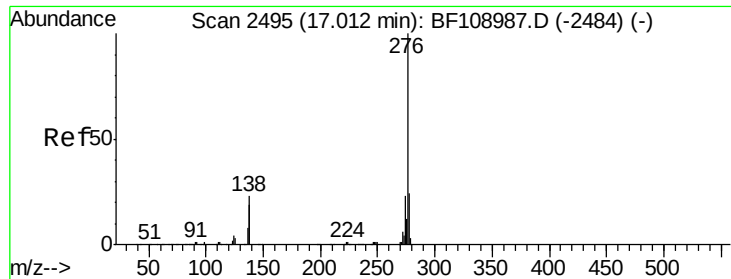
Tot Ion	Ratio	Lower	Upper
252	100		
253	24.1	17.9	26.9
125	72.9	10.2	15.2#



#89
Benzo(a)pyrene
Concen: 4.045 ng
RT: 15.21 min Scan# 2189
Delta R.T. 0.01 min
Lab File: BF109099.D
Acq: 18 Sep 2018 16:53

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.7	17.1	25.7#
125	95.7	9.8	14.6#





#91

Benzo(a,h,i)perylene

Concen: 3.091 ng

RT: 17.03 min Scan# 2498

Delta R.T. 0.02 min

Lab File: BF109099.D

Acq: 18 Sep 2018 16:53

Instrument :

BNA_F

ClientSampleId :

Tot Ion:276 Resp: 39440

Ion Ratio Lower Upper

276 100

277 34.0 17.9 26.9#

138 51.9 21.8 32.8#

