

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF111317\
 Data File : BF100499.D
 Acq On : 13 Nov 2017 13:41
 Operator : SJ/JU
 Sample : I6396-05RE 20X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Nov 13 15:36:34 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Nov 13 14:08:38 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	83283	20.00	ng	0.00
21) Naphthalene-d8	8.17	136	323027	20.00	ng	0.00
38) Acenaphthene-d10	9.93	164	146071	20.00	ng	0.00
63) Phenanthrene-d10	11.41	188	240996	20.00	ng	0.00
75) Chrysene-d12	14.05	240	174386	20.00	ng	0.00
86) Perylene-d12	15.53	264	180296	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.50	112	33780	6.50	ng	0.00
7) Phenol-d6	6.50	99	41355	6.45	ng	-0.01
23) Nitrobenzene-d5	7.45	82	23372	4.78	ng	-0.01
41) 2,4,6-Tribromophenol	10.71	330	9694	6.51	ng	0.00
44) 2-Fluorobiphenyl	9.24	172	50201	5.23	ng	-0.01
78) Terphenyl-d14	12.99	244	33343	4.39	ng	0.00

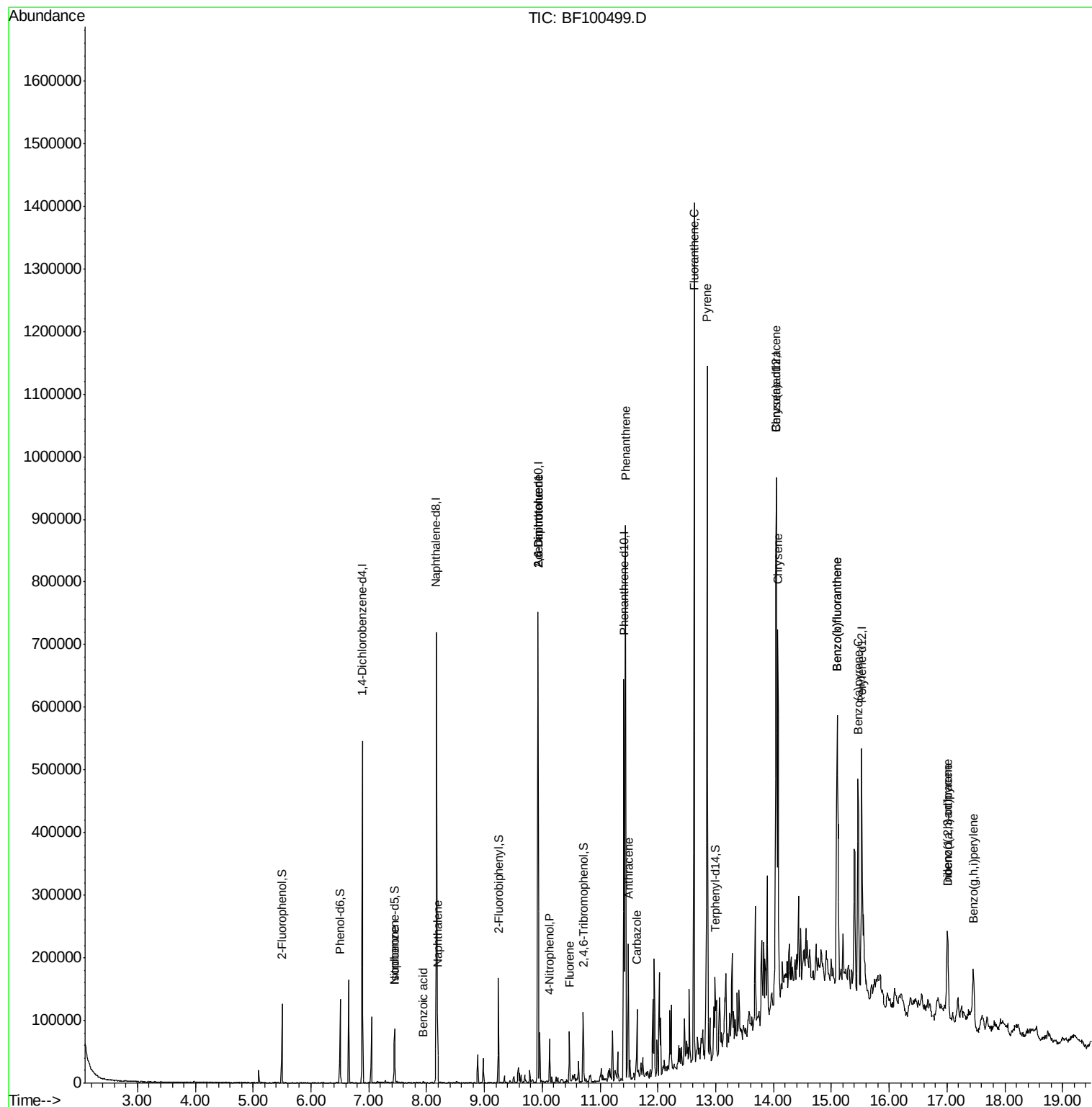
Target Compounds				Qvalue		
25) Isophorone	7.45	82	23371	2.276	ng	# 64
31) Naphthalene	8.19	128	42560	2.735	ng	98
32) Benzoic acid	7.95	122	461	9.476	ng	# 19
50) 2,6-Dinitrotoluene	9.93	165	18776	8.505	ng	# 26
55) 4-Nitrophenol	10.13	139	8336	3.938	ng	# 9
56) 2,4-Dinitrotoluene	9.93	165	18776	6.742	ng	# 24
57) Fluorene	10.47	166	21029	2.217	ng	98
70) Phenanthrene	11.44	178	340733	26.853	ng	98
71) Anthracene	11.49	178	75669	5.878	ng	99
72) Carbazole	11.64	167	38563	3.246	ng	95
74) Fluoranthene	12.63	202	524625	39.012	ng	95
77) Pyrene	12.86	202	447744	36.019	ng	100
80) Benzo(a)anthracene	14.04	228	257477	24.518	ng	99
82) Chrysene	14.07	228	233324	22.944	ng	97
85) Indeno(1,2,3-cd)pyrene	17.01	276	87620	10.652	ng	# 89
87) Benzo(b)fluoranthene	15.10	252	356972	33.419	ng	97
88) Benzo(k)fluoranthene	15.10	252	356972	35.370	ng	98
89) Benzo(a)pyrene	15.46	252	171048	18.063	ng	96
90) Dibenzo(a,h)anthracene	17.02	278	27017	3.489	ng	93
91) Benzo(a,h,i)perylene	17.46	276	71215	9.394	ng	# 88

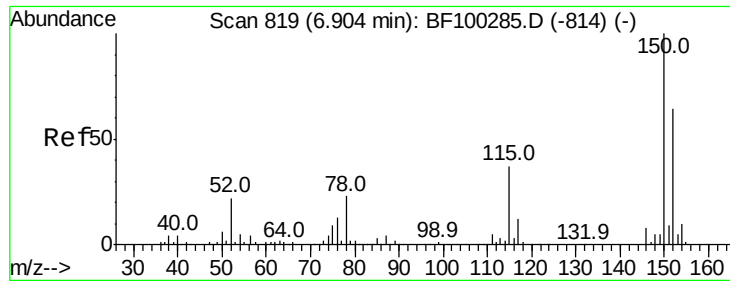
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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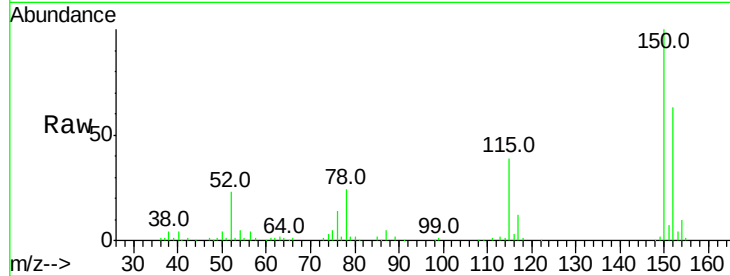


#1

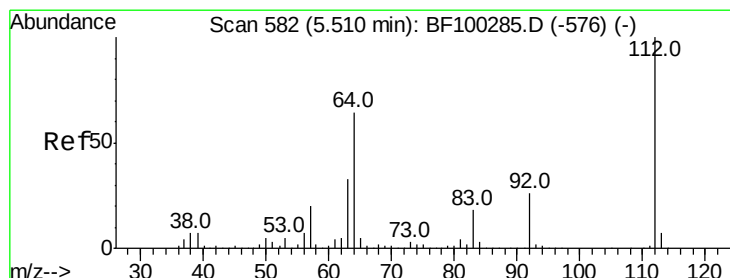
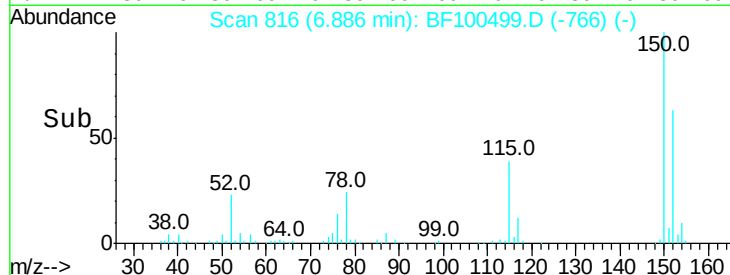
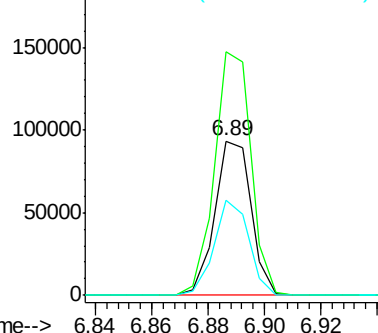
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.89 min Scan# 816
Delta R.T. -0.01 min
Lab File: BF100499.D
Acq: 13 Nov 2017 13:41

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 83283
Ion Ratio Lower Upper
152 100
150 158.0 124.6 186.8
115 61.9 50.1 75.1



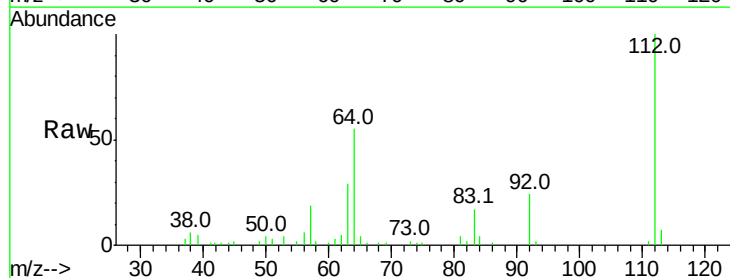
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



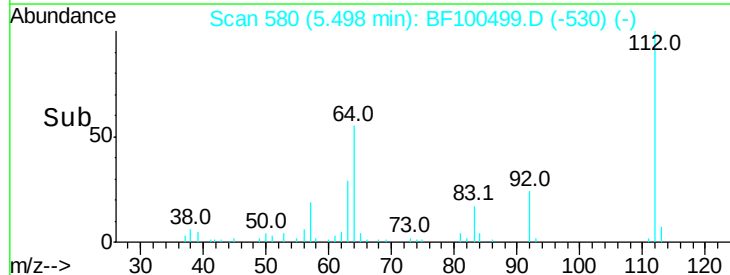
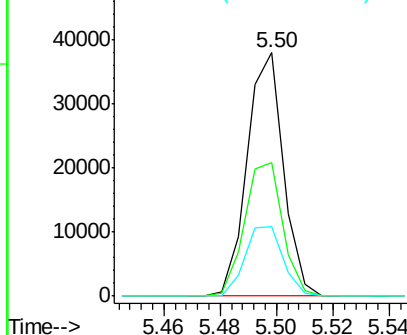
#5

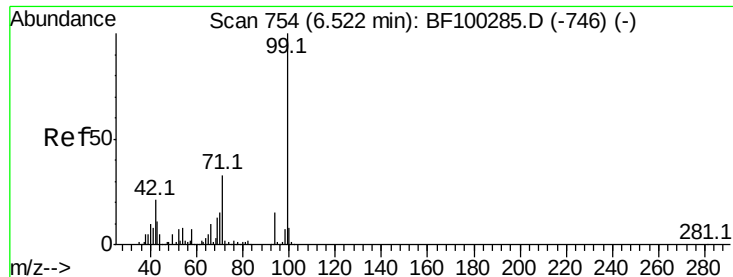
2-Fluorophenol
Concen: 6.502 ng
RT: 5.50 min Scan# 580
Delta R.T. -0.01 min
Lab File: BF100499.D
Acq: 13 Nov 2017 13:41

Tgt Ion:112 Resp: 33780
Ion Ratio Lower Upper
112 100
64 54.9 47.9 71.9
63 28.6 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: 6.455 ng

RT: 6.50 min Scan# 751

Delta R.T. -0.01 min

Lab File: BF100499.D

Acq: 13 Nov 2017 13:41

Instrument :

BNA_F

ClientSampleId :

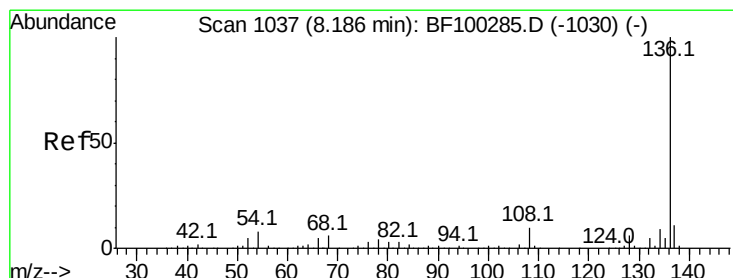
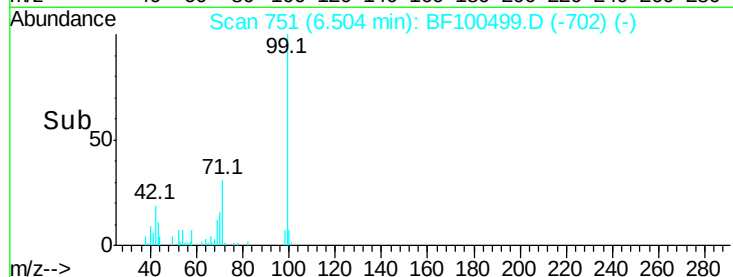
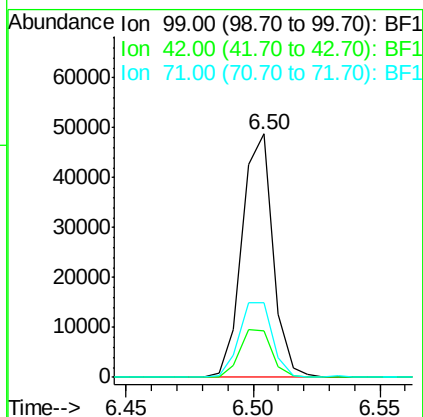
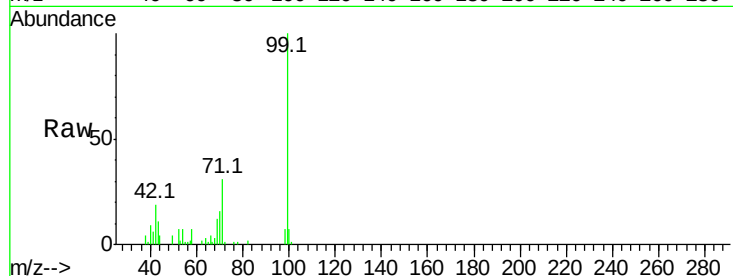
Tot Ion: 99 Resp: 41355

Ion Ratio Lower Upper

99 100

42 19.1 14.5 21.7

71 30.8 25.4 38.0



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.17 min Scan# 1034

Delta R.T. -0.01 min

Lab File: BF100499.D

Acq: 13 Nov 2017 13:41

Tgt Ion: 136 Resp: 323027

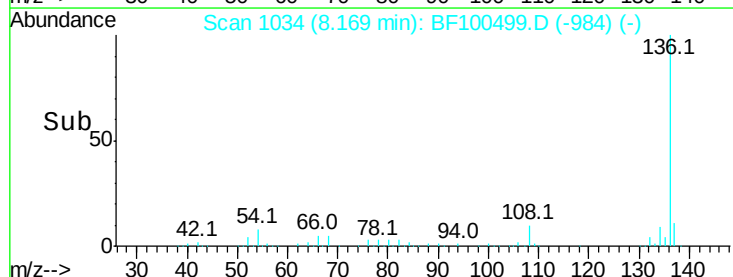
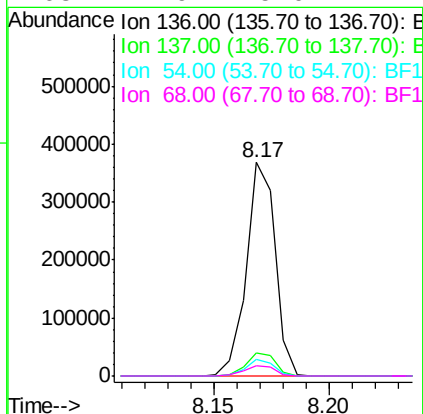
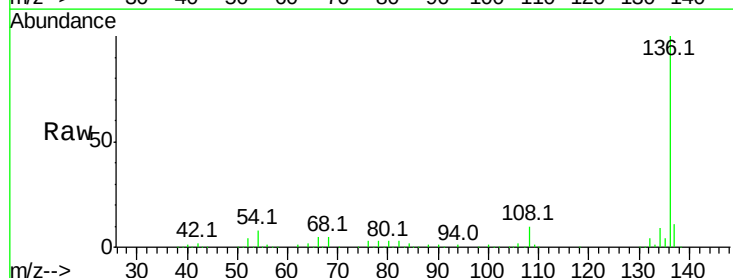
Ion Ratio Lower Upper

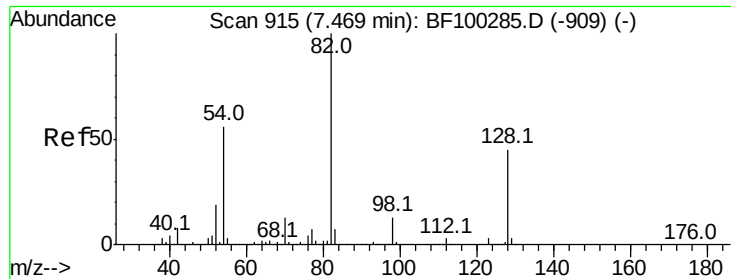
136 100

137 10.6 8.9 13.3

54 7.9 6.6 9.8

68 4.9 5.0 7.4#

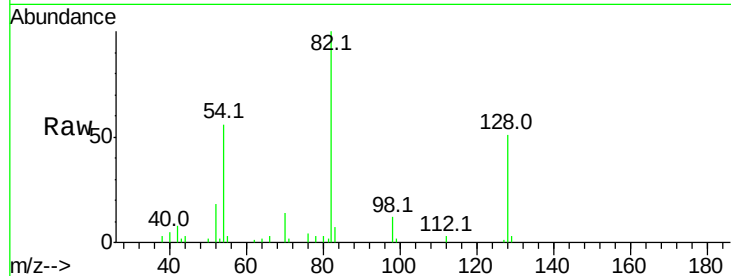




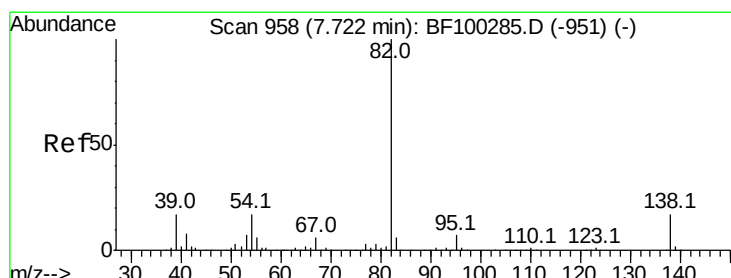
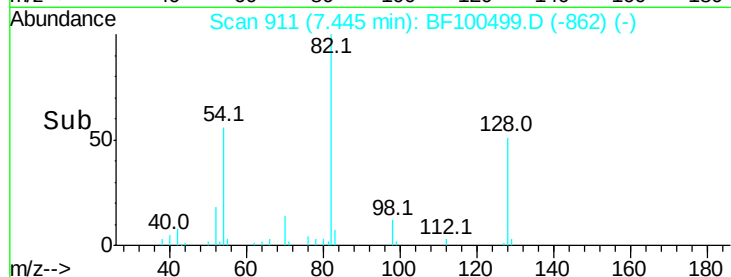
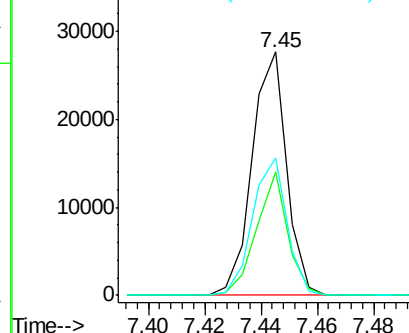
#23
 Nitrobenzene-d5
 Concen: 4.784 ng
 RT: 7.45 min Scan# 911
 Delta R.T. -0.01 min
 Lab File: BF100499.D
 Acq: 13 Nov 2017 13:41

Instrument :
 BNA_F
 ClientSampled :

Tot Ion	82	Resp	23372
Ion Ratio	Lower	Upper	
82	100		
128	50.7	36.1	54.1
54	56.3	41.4	62.2

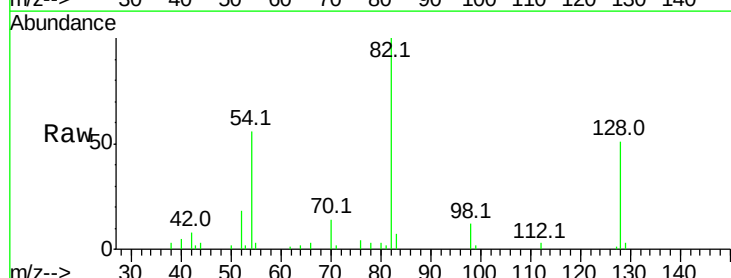


Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 128.00 (127.70 to 128.70): BF1
 Ion 54.00 (53.70 to 54.70): BF1

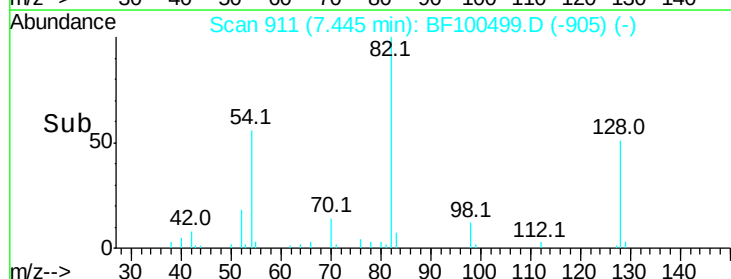
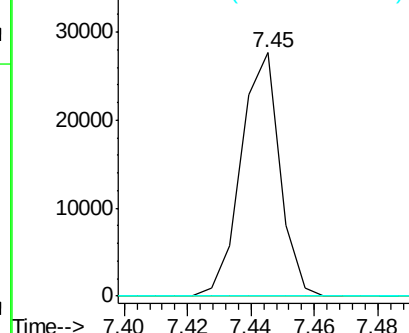


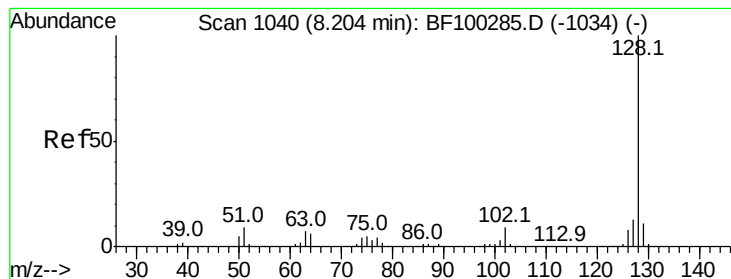
#25
 Isophorone
 Concen: 2.276 ng
 RT: 7.45 min Scan# 911
 Delta R.T. -0.26 min
 Lab File: BF100499.D
 Acq: 13 Nov 2017 13:41

Tgt Ion	82	Resp	23371
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





#31

Naphthalene

Concen: 2.735 ng

RT: 8.19 min Scan# 1038

Delta R.T. -0.01 min

Lab File: BF100499.D

Acq: 13 Nov 2017 13:41

Instrument :

BNA_F

ClientSampleId :

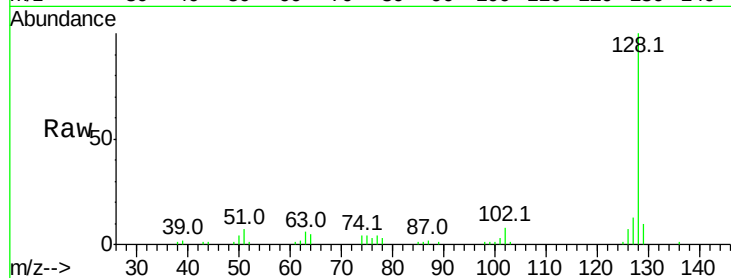
Tot Ion:128 Resp: 42560

Ion Ratio Lower Upper

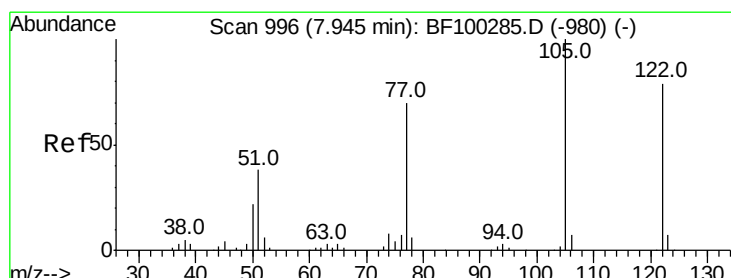
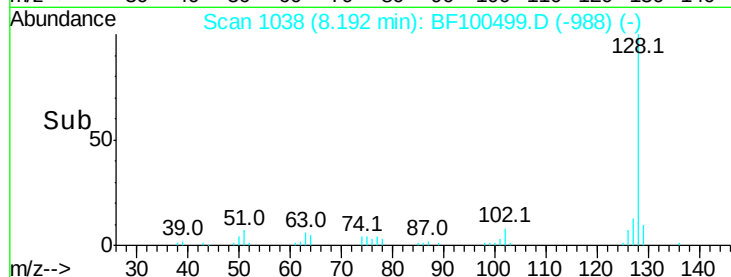
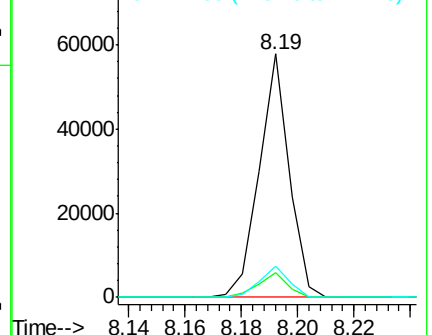
128 100

129 10.1 8.8 13.2

127 12.7 10.9 16.3



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E



#32

Benzoic acid

Concen: 9.476 ng

RT: 7.95 min Scan# 996

Delta R.T. 0.01 min

Lab File: BF100499.D

Acq: 13 Nov 2017 13:41

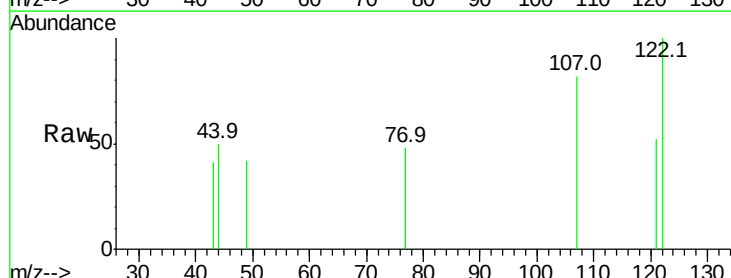
Tgt Ion:122 Resp: 461

Ion Ratio Lower Upper

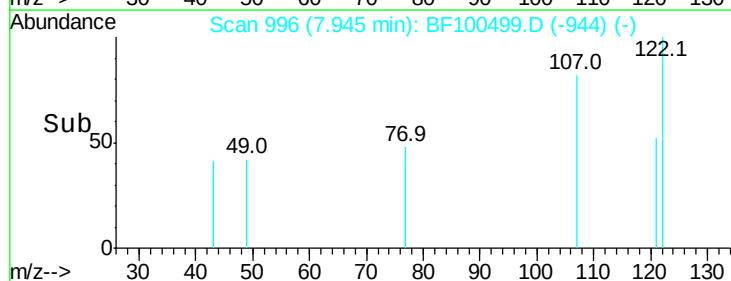
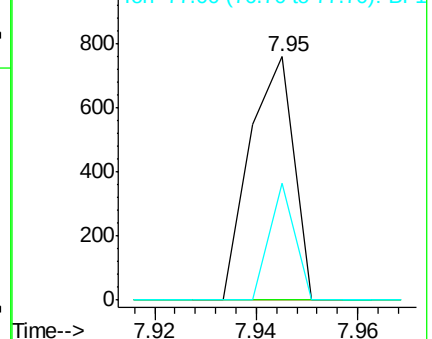
122 100

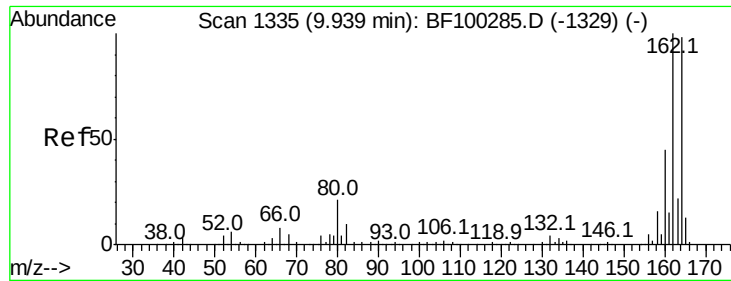
105 0.0 101.1 141.1#

77 47.9 70.7 110.7#



Abundance Ion 122.00 (121.70 to 122.70): E
Ion 105.00 (104.70 to 105.70): E
Ion 77.00 (76.70 to 77.70): BF1

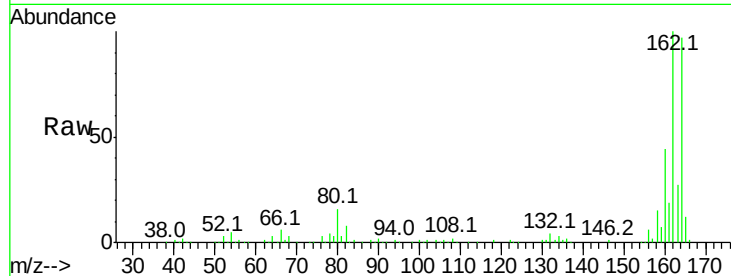




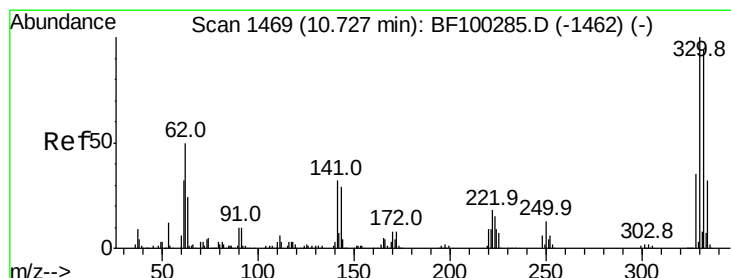
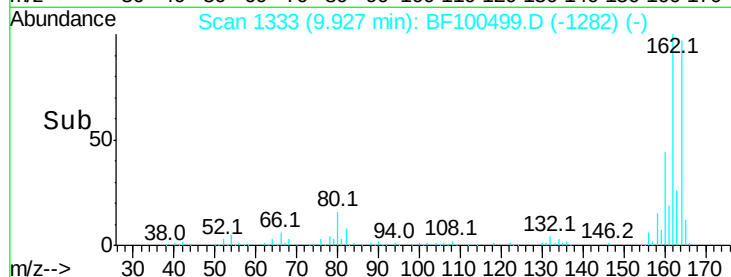
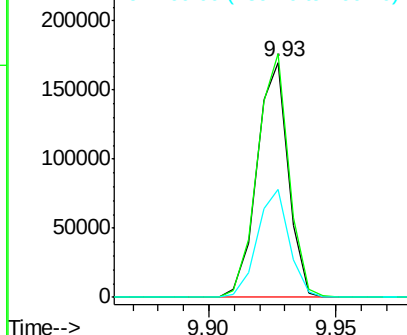
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.93 min Scan# 1333
Delta R.T. -0.00 min
Lab File: BF100499.D
Acq: 13 Nov 2017 13:41

Instrument :
BNA_F
ClientSampleId :

Tot Ion:164 Resp: 146071
Ion Ratio Lower Upper
164 100
162 103.5 86.1 129.1
160 45.9 38.3 57.5

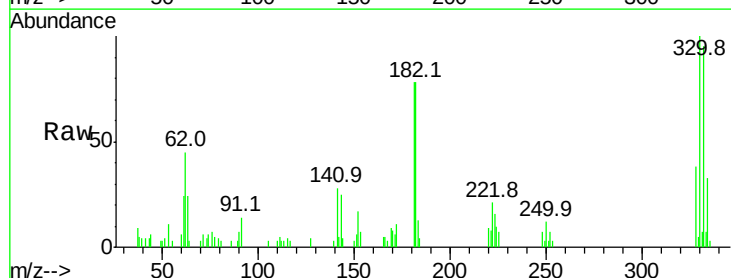


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

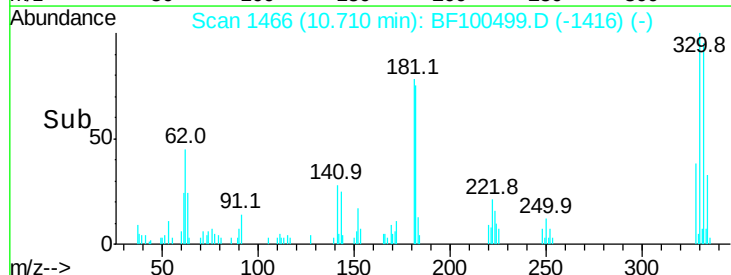
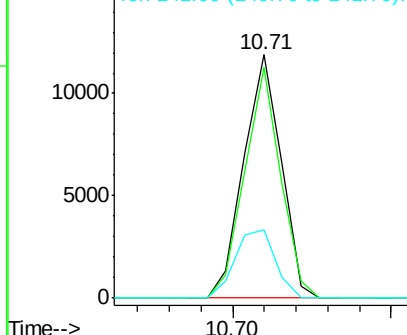


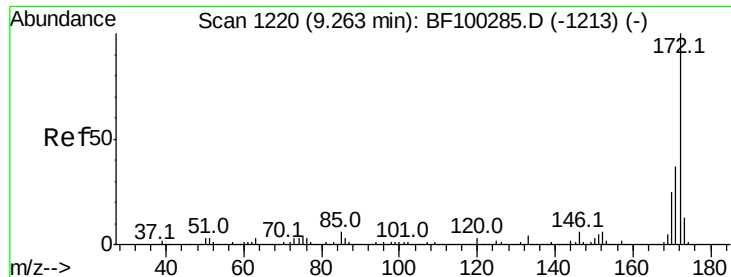
#41
2,4,6-Tribromophenol
Concen: 6.513 ng
RT: 10.71 min Scan# 1466
Delta R.T. -0.01 min
Lab File: BF100499.D
Acq: 13 Nov 2017 13:41

Tgt Ion:330 Resp: 9694
Ion Ratio Lower Upper
330 100
332 91.2 77.0 115.6
141 30.2 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

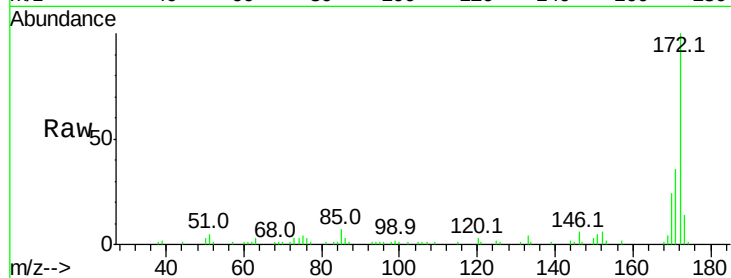




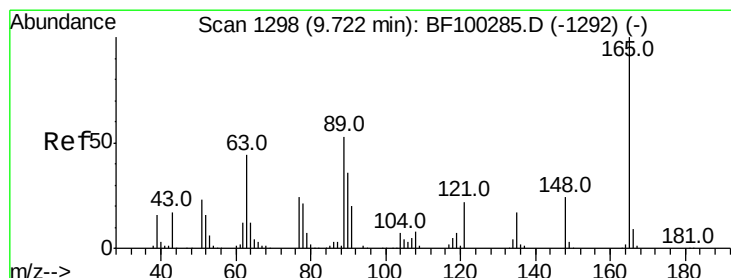
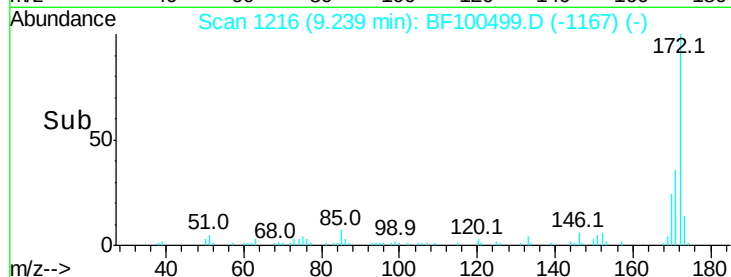
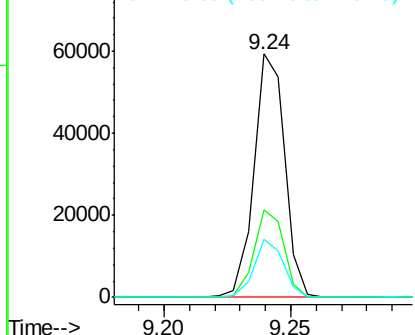
#44
 2-Fluorobiphenyl
 Concen: 5.233 ng
 RT: 9.24 min Scan# 1216
 Delta R.T. -0.01 min
 Lab File: BF100499.D
 Acq: 13 Nov 2017 13:41

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:172 Resp: 50201
 Ion Ratio Lower Upper
 172 100
 171 35.9 29.7 44.5
 170 23.9 19.6 29.4

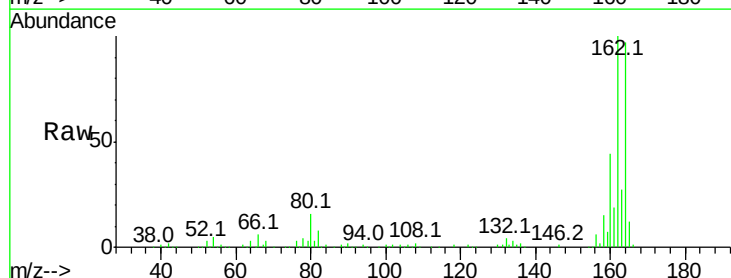


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

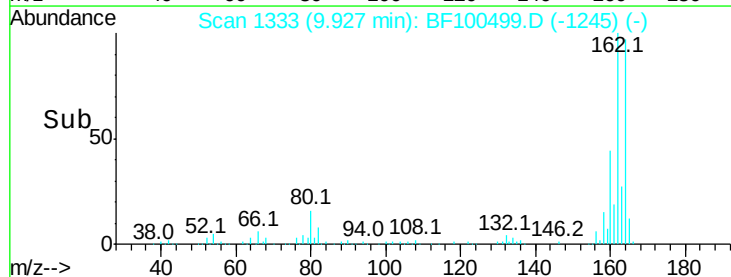
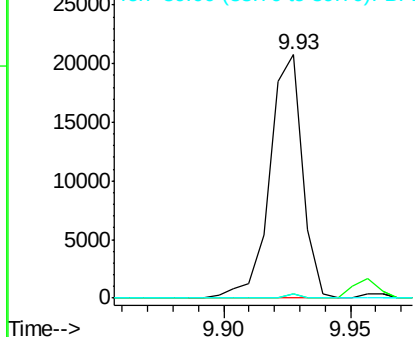


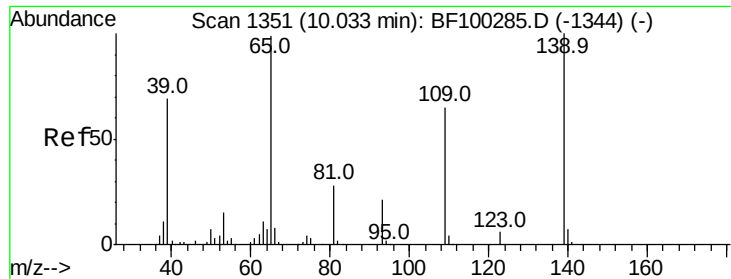
#50
 2,6-Dinitrotoluene
 Concen: 8.505 ng
 RT: 9.93 min Scan# 1333
 Delta R.T. 0.22 min
 Lab File: BF100499.D
 Acq: 13 Nov 2017 13:41

Tgt Ion:165 Resp: 18776
 Ion Ratio Lower Upper
 165 100
 63 1.7 44.7 67.1#
 89 1.7 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





#55

4-Nitrophenol

Concen: 3.938 ng

RT: 10.13 min Scan# 1367

Delta R.T. 0.10 min

Lab File: BF100499.D

Acq: 13 Nov 2017 13:41

Instrument :

BNA_F

ClientSampleId :

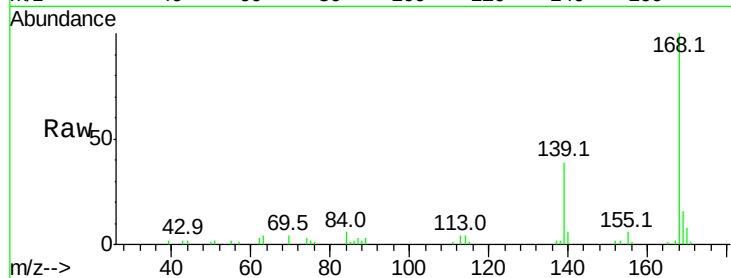
Tot Ion:139 Resp: 8336

Ion Ratio Lower Upper

139 100

109 0.0 48.4 88.4#

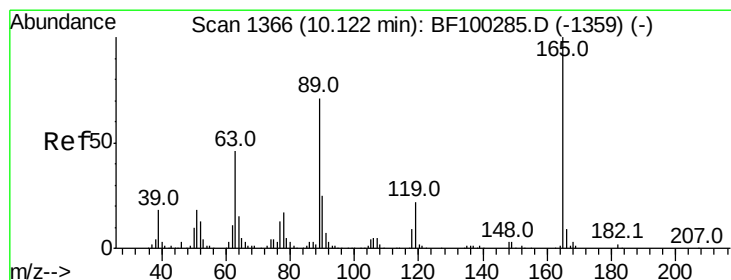
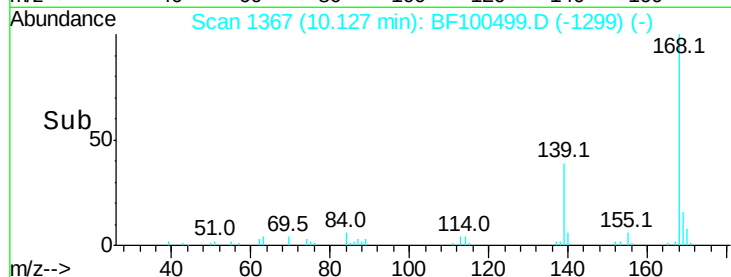
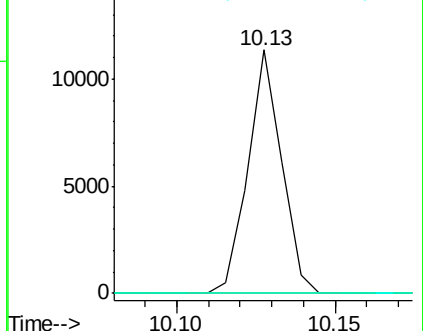
65 0.0 72.6 112.6#



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): BF1



#56

2,4-Dinitrotoluene

Concen: 6.742 ng

RT: 9.93 min Scan# 1333

Delta R.T. -0.19 min

Lab File: BF100499.D

Acq: 13 Nov 2017 13:41

Tgt Ion:165 Resp: 18776

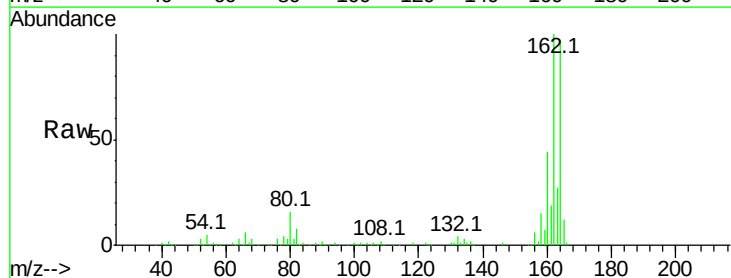
Ion Ratio Lower Upper

165 100

63 1.7 36.4 54.6#

89 1.7 57.8 86.6#

182 0.0 1.6 2.4#

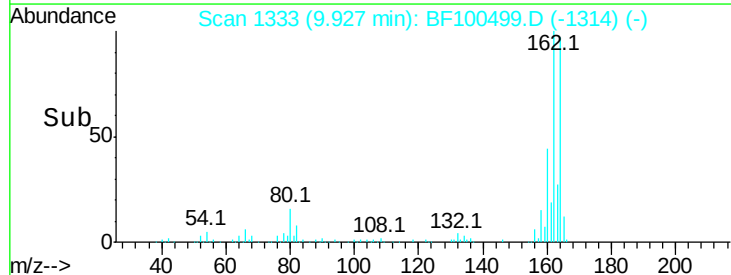
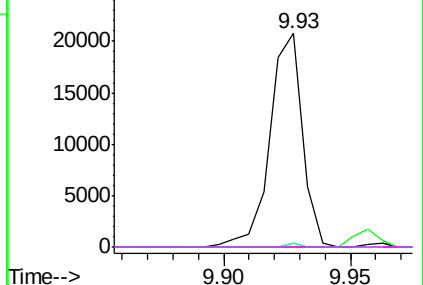


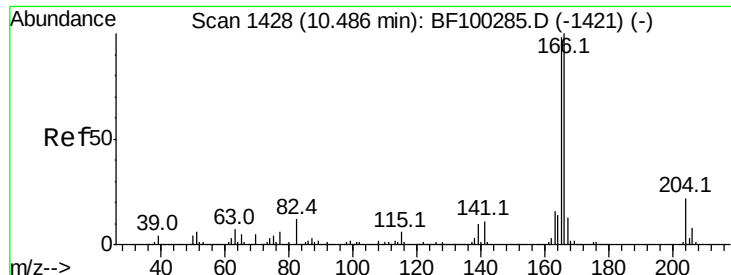
Abundance Ion 165.00 (164.70 to 165.70): E

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

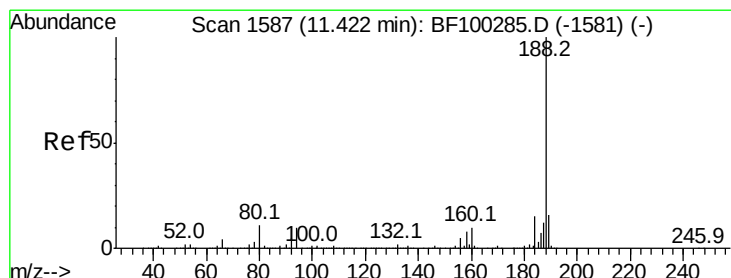
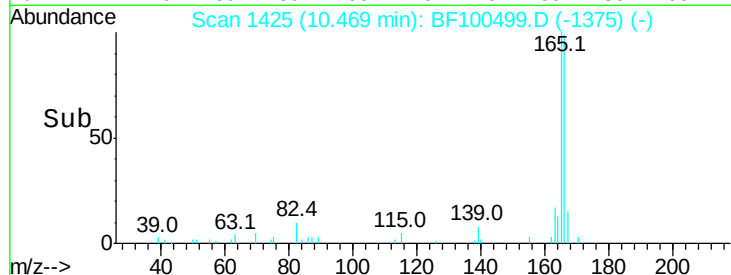
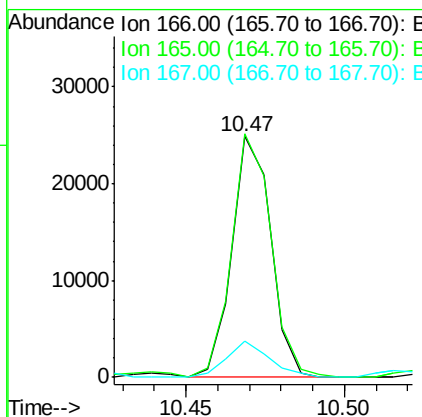
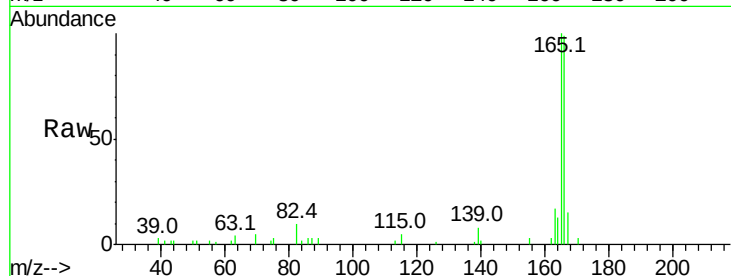




#57
 Fluorene
 Concen: 2.217 ng
 RT: 10.47 min Scan# 1425
 Delta R.T. -0.01 min
 Lab File: BF100499.D
 Acq: 13 Nov 2017 13:41

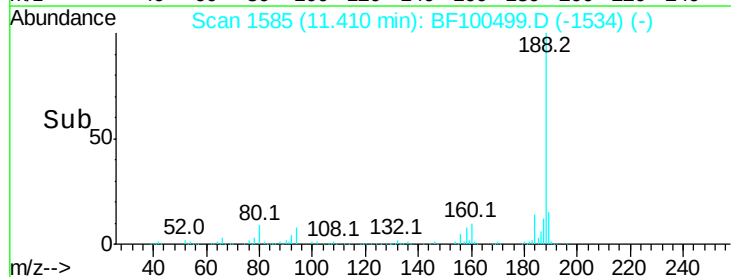
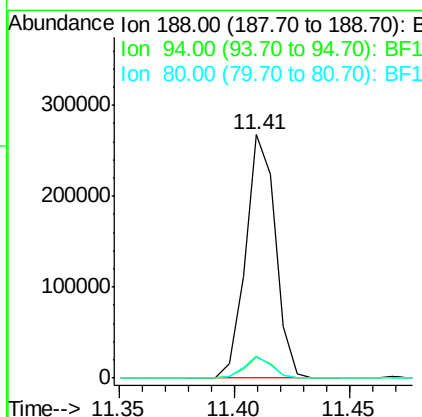
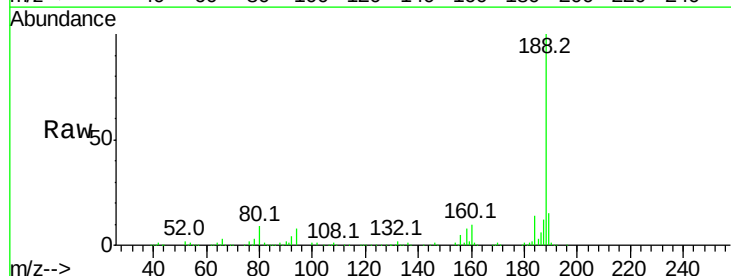
Instrument :
 BNA_F
 ClientSampleId :

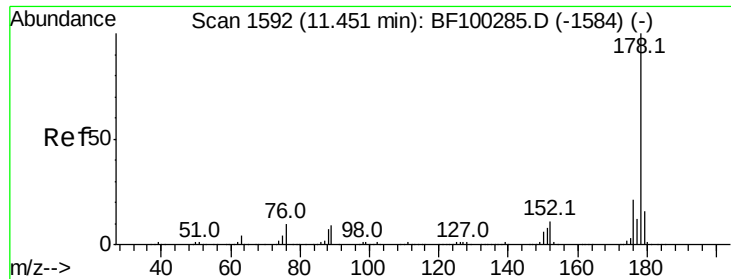
Tot Ion:166 Resp: 21029
 Ion Ratio Lower Upper
 166 100
 165 101.2 79.8 119.8
 167 15.3 10.6 16.0



#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.41 min Scan# 1585
 Delta R.T. -0.00 min
 Lab File: BF100499.D
 Acq: 13 Nov 2017 13:41

Tgt Ion:188 Resp: 240996
 Ion Ratio Lower Upper
 188 100
 94 8.4 8.5 12.7#
 80 9.1 9.2 13.8#

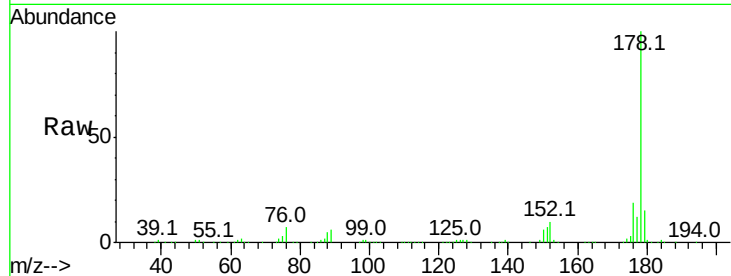




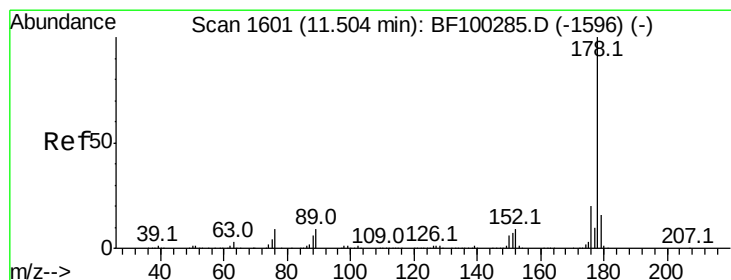
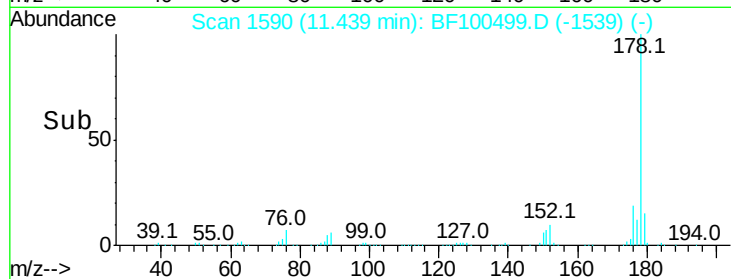
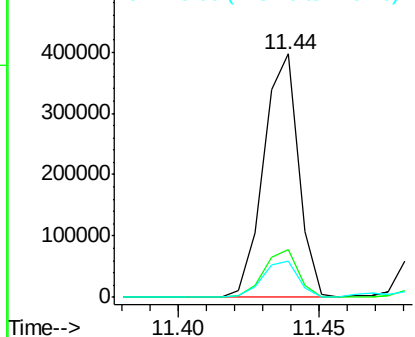
#70
Phenanthrene
Concen: 26.853 ng
RT: 11.44 min Scan# 1590
Delta R.T. -0.00 min
Lab File: BF100499.D
Acq: 13 Nov 2017 13:41

Instrument :
BNA_F
ClientSampled :

Tot Ion:178 Resp: 340733
Ion Ratio Lower Upper
178 100
176 19.4 15.8 23.8
179 14.9 13.0 19.6

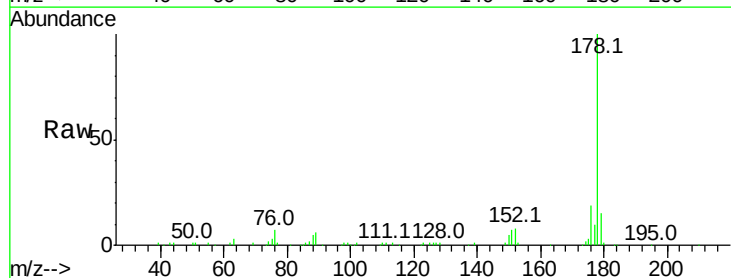


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

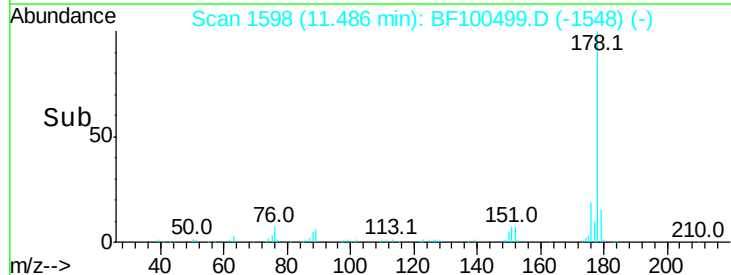
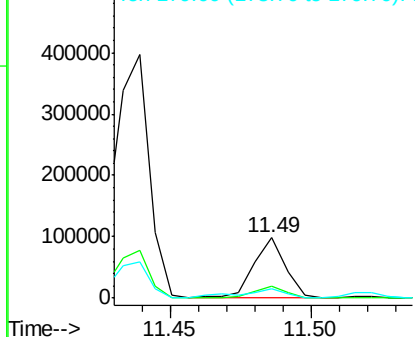


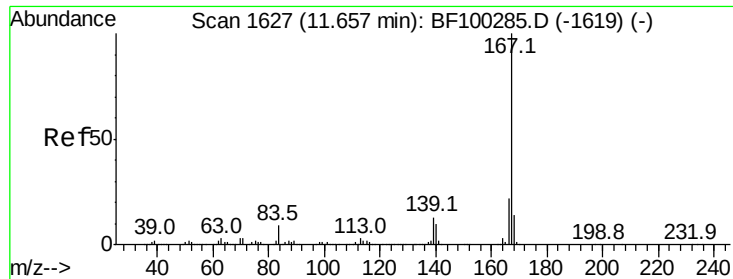
#71
Anthracene
Concen: 5.878 ng
RT: 11.49 min Scan# 1598
Delta R.T. -0.01 min
Lab File: BF100499.D
Acq: 13 Nov 2017 13:41

Tgt Ion:178 Resp: 75669
Ion Ratio Lower Upper
178 100
176 19.1 15.4 23.2
179 14.9 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

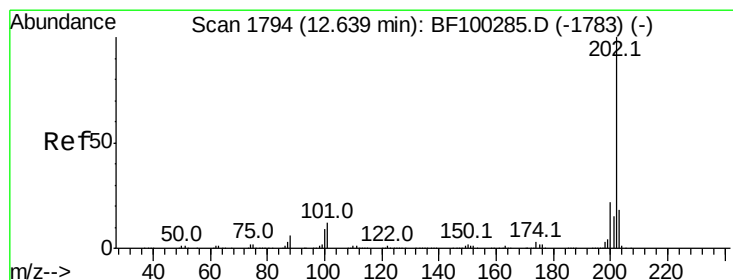
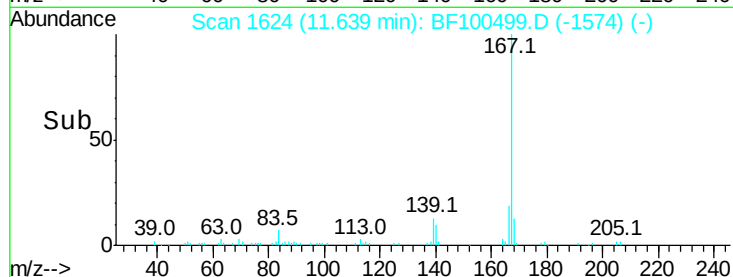
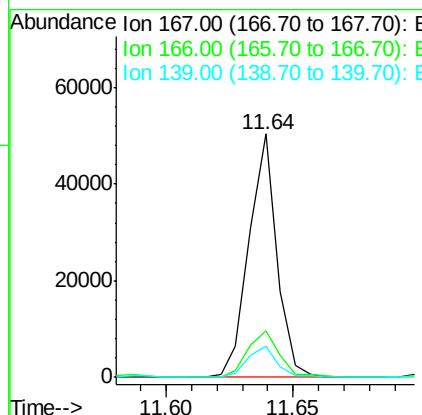
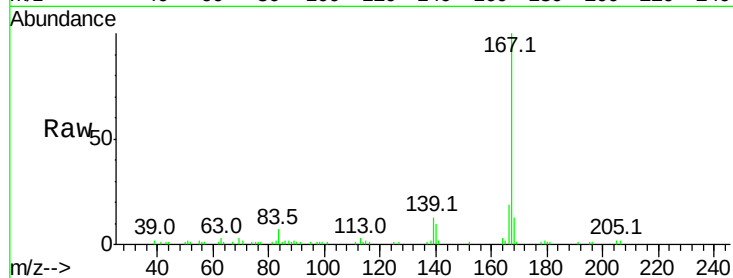




#72
 Carbazole
 Concen: 3.246 ng
 RT: 11.64 min Scan# 1624
 Delta R.T. -0.01 min
 Lab File: BF100499.D
 Acq: 13 Nov 2017 13:41

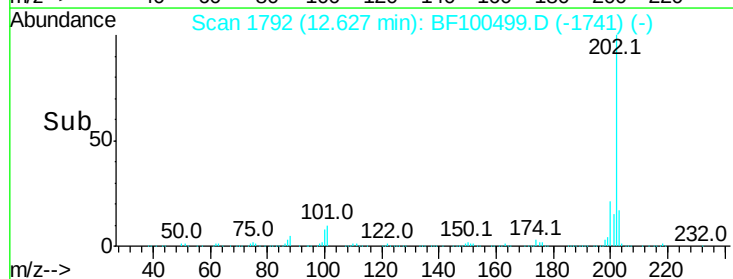
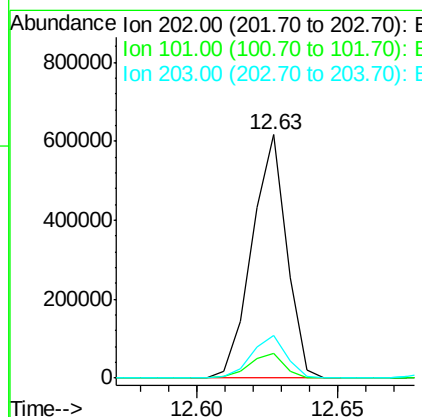
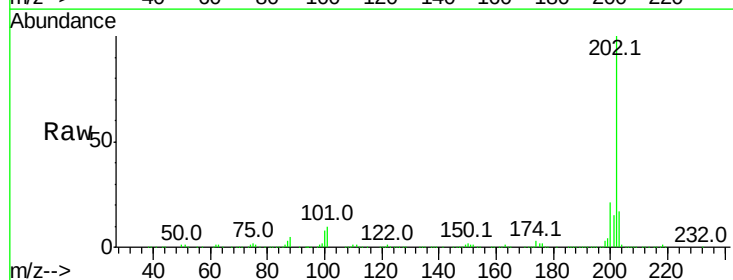
Instrument :
 BNA_F
 ClientSampleId :

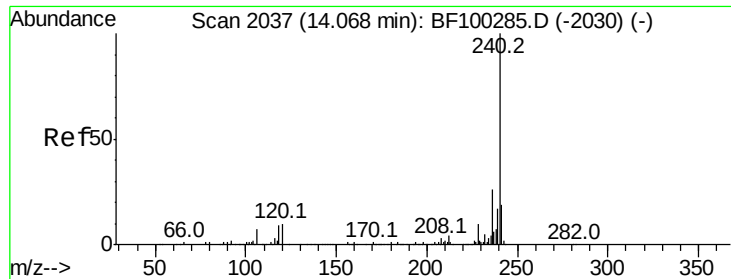
Tot Ion:167 Resp: 38563
 Ion Ratio Lower Upper
 167 100
 166 18.9 17.6 26.4
 139 13.0 10.9 16.3



#74
 Fluoranthene
 Concen: 39.012 ng
 RT: 12.63 min Scan# 1792
 Delta R.T. -0.00 min
 Lab File: BF100499.D
 Acq: 13 Nov 2017 13:41

Tgt Ion:202 Resp: 524625
 Ion Ratio Lower Upper
 202 100
 101 10.0 0.0 34.1
 203 17.4 0.0 38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.05 min Scan# 2034

Delta R.T. -0.00 min

Lab File: BF100499.D

Acq: 13 Nov 2017 13:41

Instrument :

BNA_F

ClientSampleId :

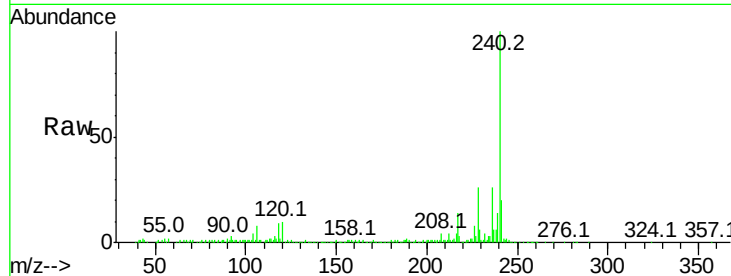
Tot Ion:240 Resp: 174386

Ion Ratio Lower Upper

240 100

120 9.7 9.5 14.3

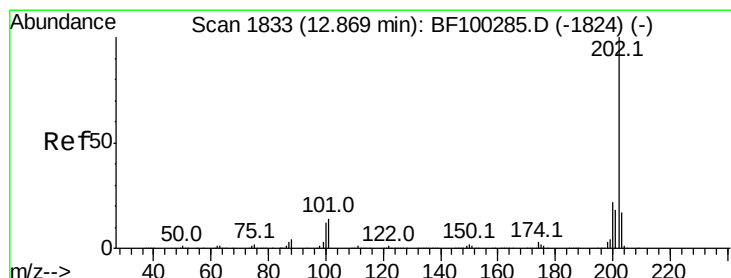
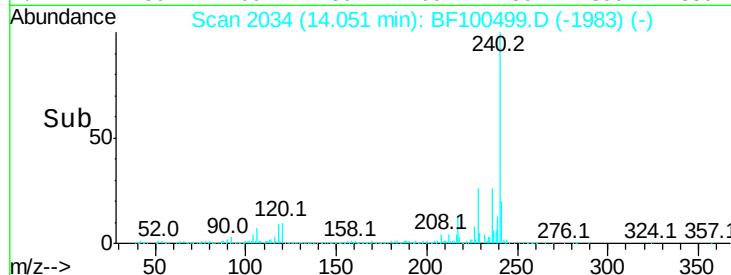
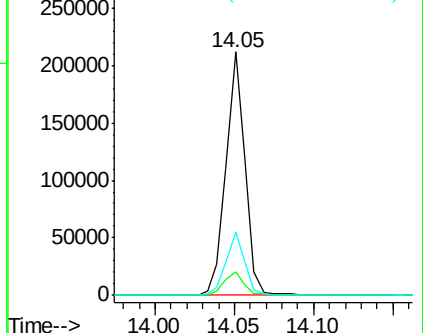
236 26.0 20.7 31.1



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: 36.019 ng

RT: 12.86 min Scan# 1831

Delta R.T. -0.00 min

Lab File: BF100499.D

Acq: 13 Nov 2017 13:41

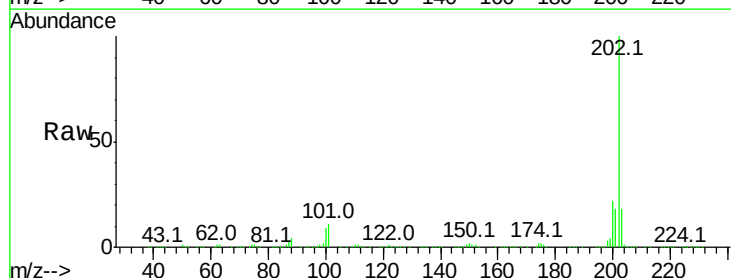
Tgt Ion:202 Resp: 447744

Ion Ratio Lower Upper

202 100

200 21.6 17.4 26.2

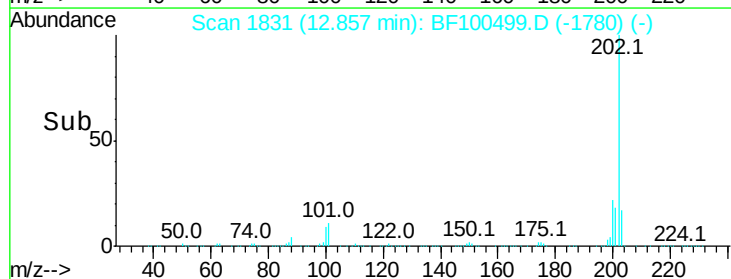
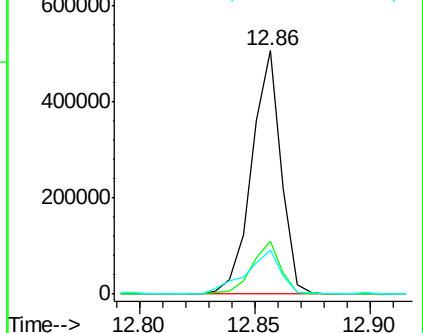
203 17.8 14.3 21.5

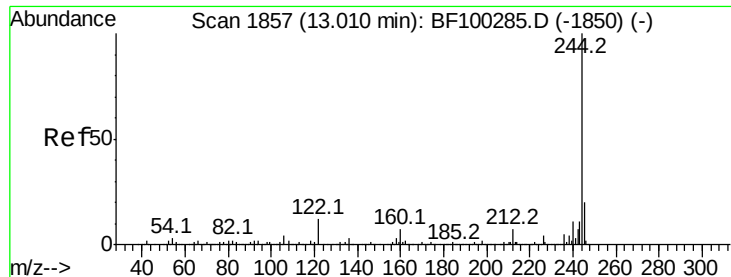


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 4.393 ng

RT: 12.99 min Scan# 1854

Delta R.T. -0.01 min

Lab File: BF100499.D

Acq: 13 Nov 2017 13:41

Instrument :

BNA_F

ClientSampled :

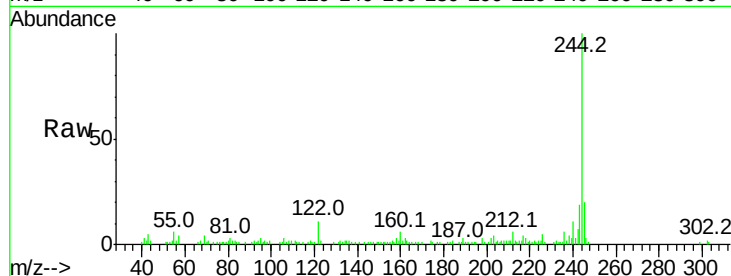
Tot Ion:244 Resp: 33343

Ion Ratio Lower Upper

244 100

212 5.8 5.4 8.0

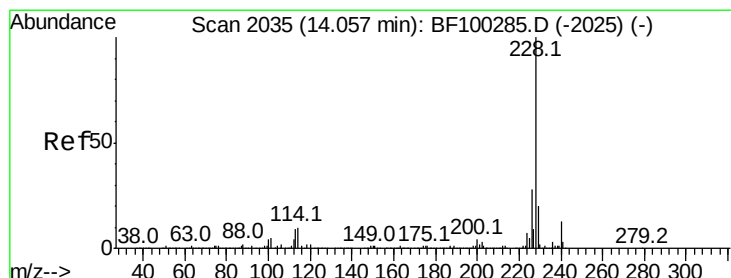
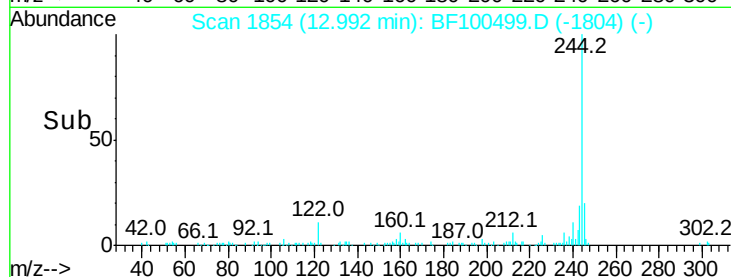
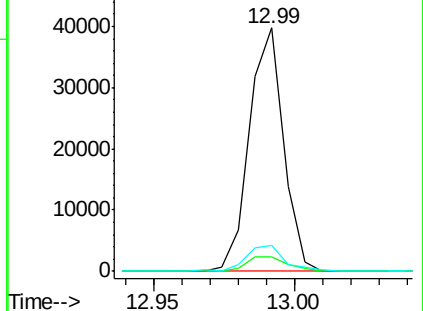
122 10.7 11.0 16.4#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 24.518 ng

RT: 14.04 min Scan# 2032

Delta R.T. -0.00 min

Lab File: BF100499.D

Acq: 13 Nov 2017 13:41

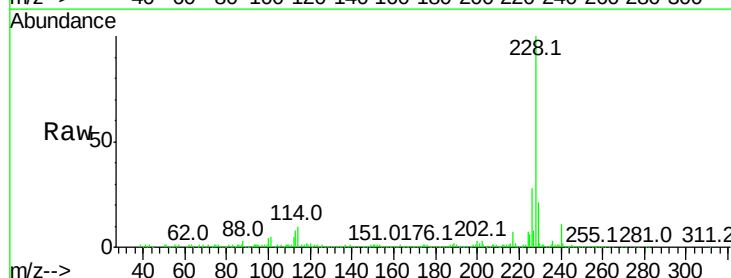
Tgt Ion:228 Resp: 257477

Ion Ratio Lower Upper

228 100

226 28.0 22.6 33.8

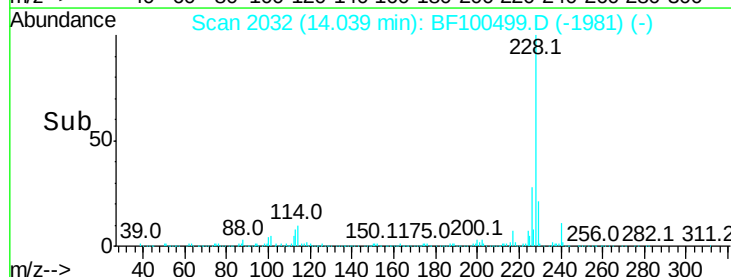
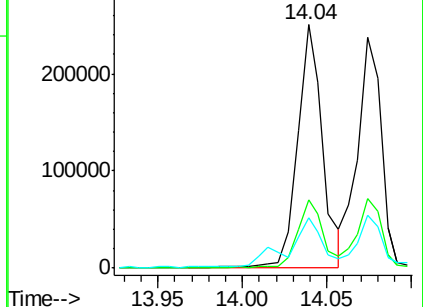
229 20.8 15.8 23.6

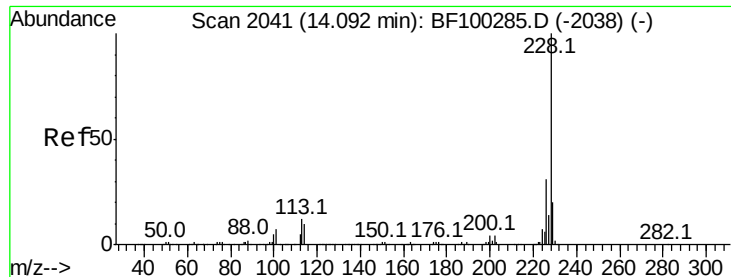


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 22.944 ng

RT: 14.07 min Scan# 2038

Delta R.T. -0.01 min

Lab File: BF100499.D

Acq: 13 Nov 2017 13:41

Instrument :

BNA_F

ClientSampleId :

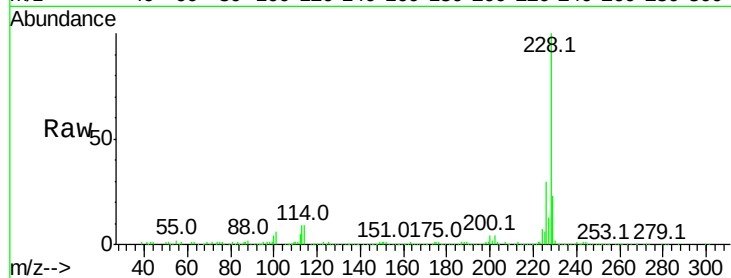
Tot Ion:228 Resp: 233324

Ion Ratio Lower Upper

228 100

226 30.2 25.0 37.6

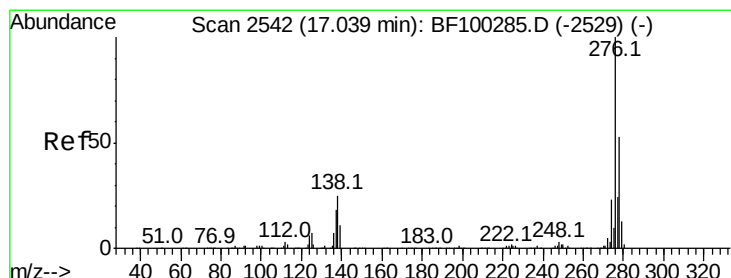
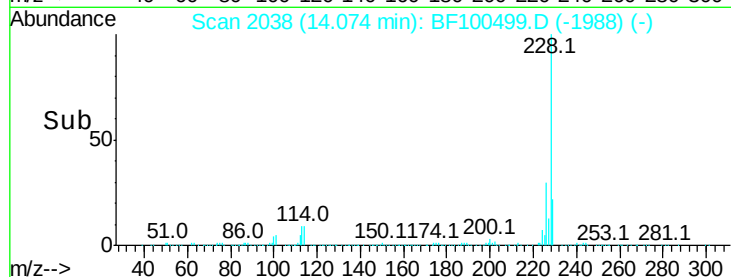
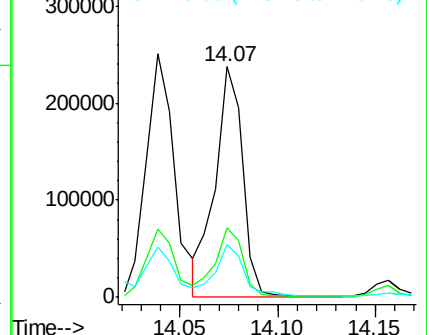
229 22.9 16.2 24.4



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: 10.652 ng

RT: 17.01 min Scan# 2537

Delta R.T. -0.01 min

Lab File: BF100499.D

Acq: 13 Nov 2017 13:41

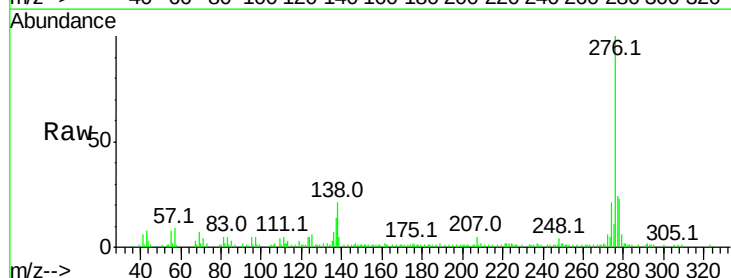
Tgt Ion:276 Resp: 87620

Ion Ratio Lower Upper

276 100

138 21.3 25.0 37.6#

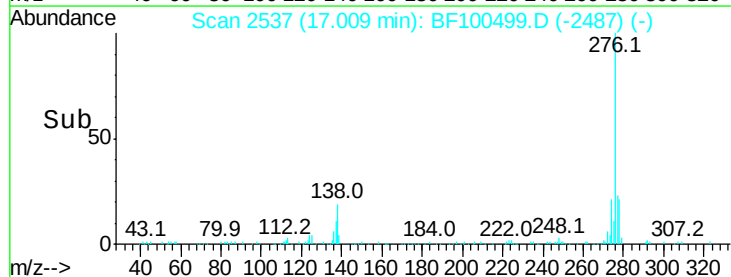
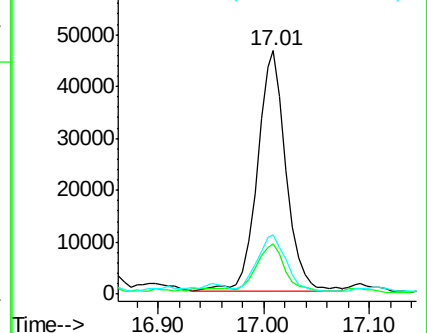
277 23.9 20.1 30.1

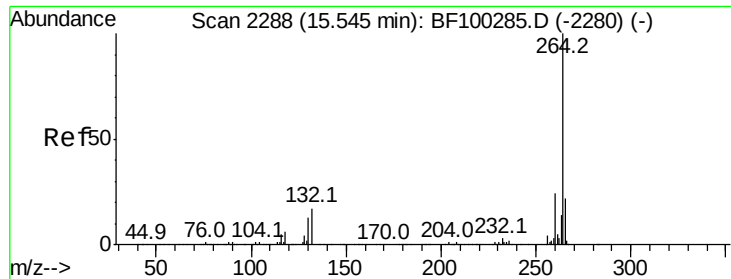


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

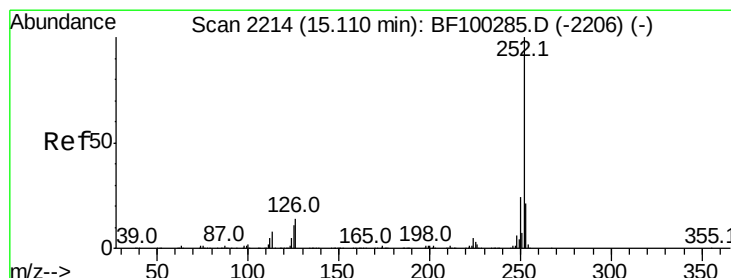
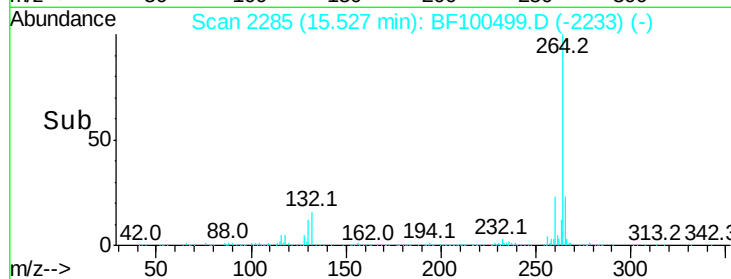
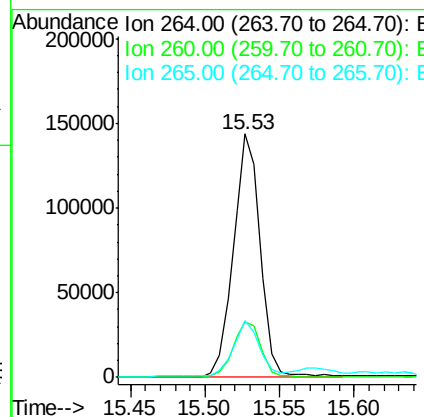
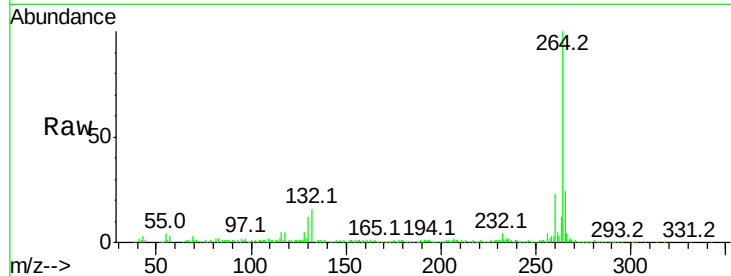




#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.53 min Scan# 2285
Delta R.T. 0.01 min
Lab File: BF100499.D
Acq: 13 Nov 2017 13:41

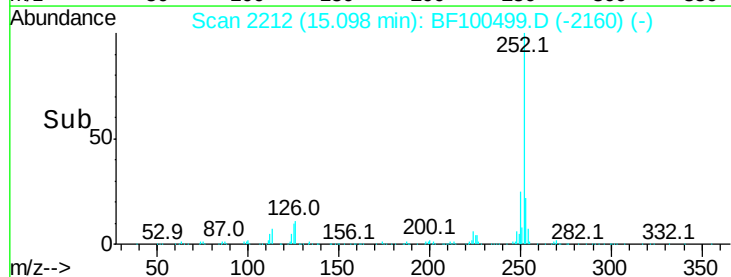
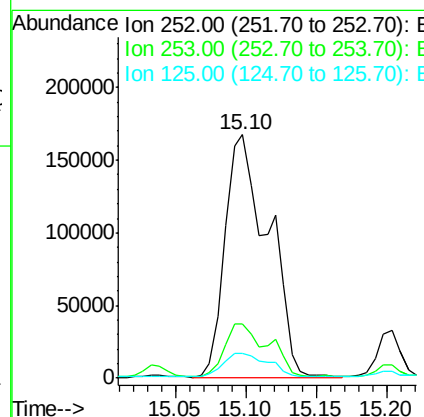
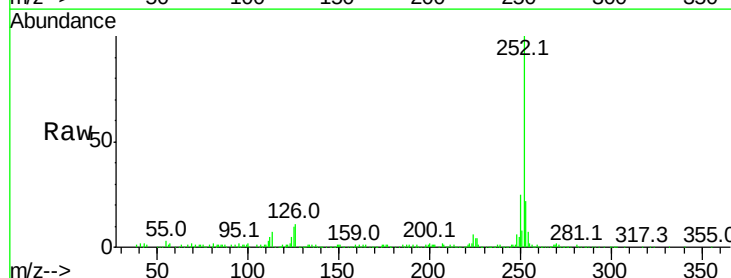
Instrument :
BNA_F
ClientSampleId :

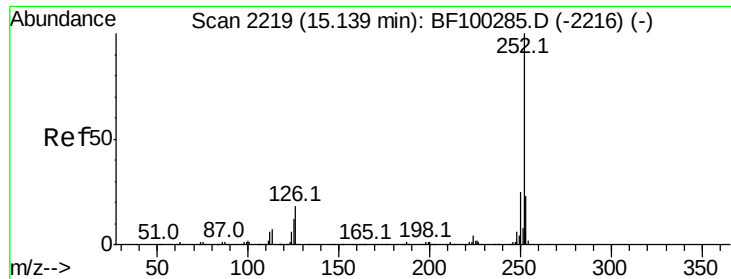
Tot Ion	Ratio	Lower	Upper
264	100		
260	22.8	19.2	28.8
265	23.5	17.5	26.3



#87
Benzo(b)fluoranthene
Concen: 33.419 ng
RT: 15.10 min Scan# 2212
Delta R.T. 0.01 min
Lab File: BF100499.D
Acq: 13 Nov 2017 13:41

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.0	25.6
125	10.2	9.0	13.6





#88

Benzo(k)fluoranthene

Concen: 35.370 ng

RT: 15.10 min Scan# 2212

Delta R.T. -0.03 min

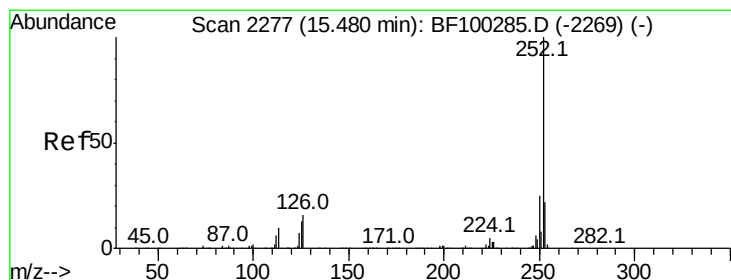
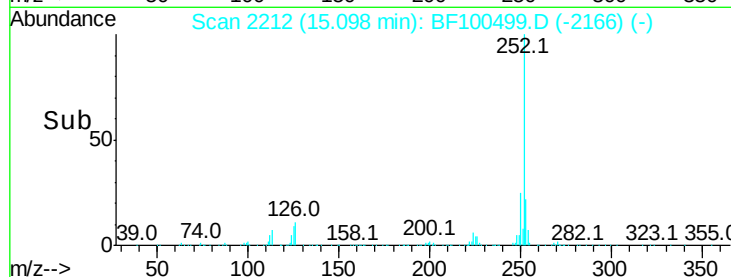
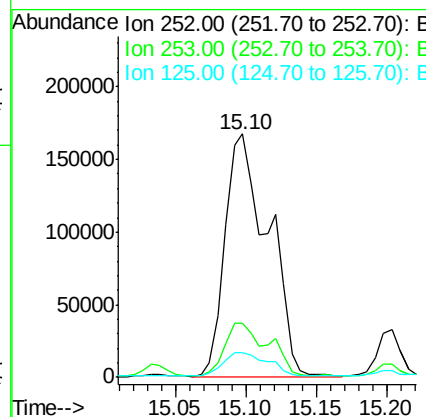
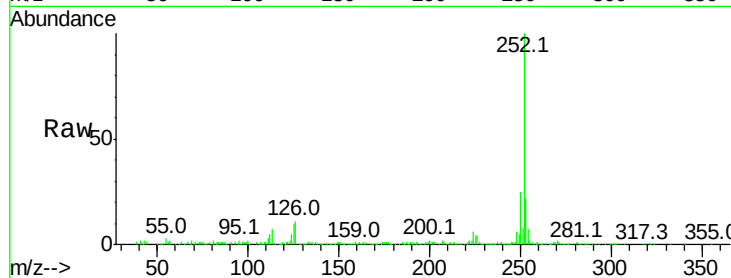
Lab File: BF100499.D

Acq: 13 Nov 2017 13:41

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 356972

Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.9	26.9
125	10.2	10.2	15.2



#89

Benzo(a)pyrene

Concen: 18.063 ng

RT: 15.46 min Scan# 2274

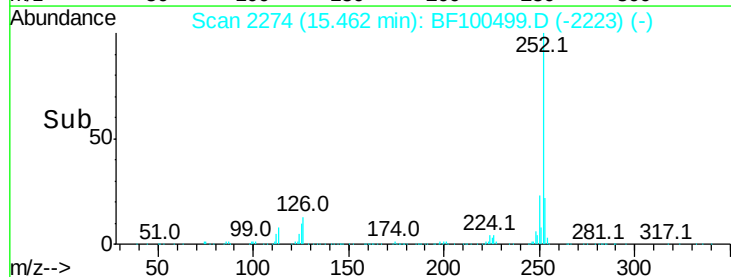
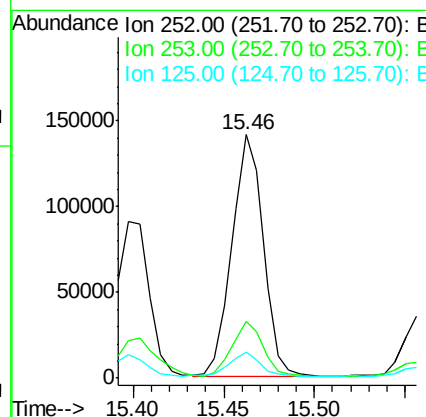
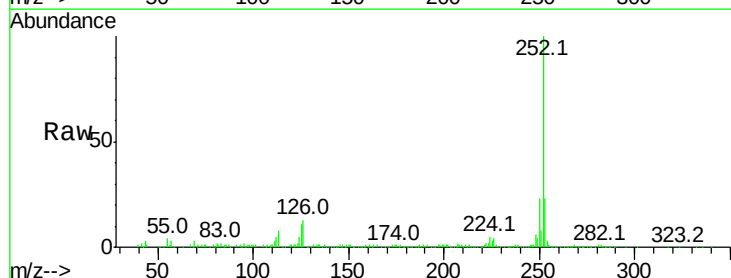
Delta R.T. -0.00 min

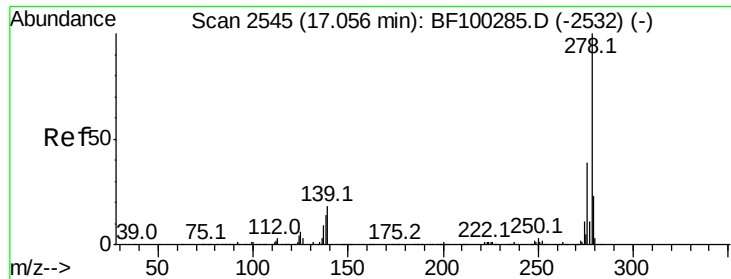
Lab File: BF100499.D

Acq: 13 Nov 2017 13:41

Tgt Ion:252 Resp: 171048

Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.1	25.7
125	10.9	9.8	14.6

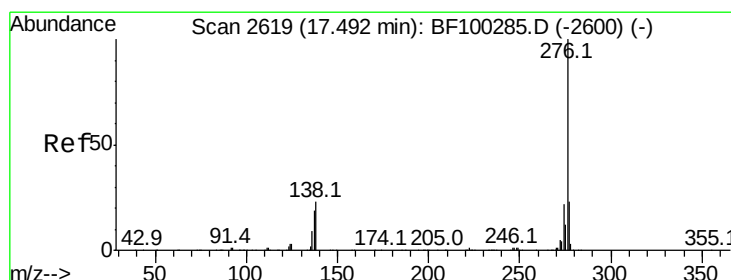
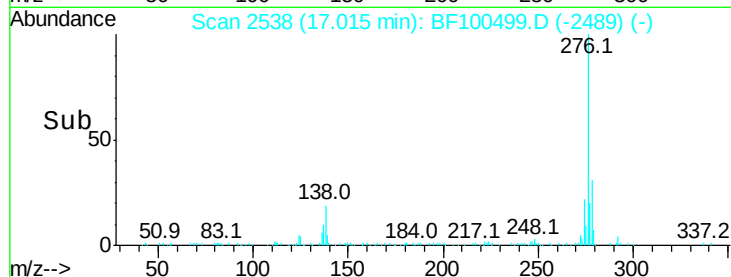
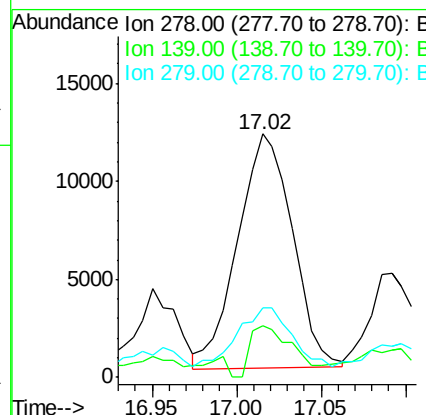
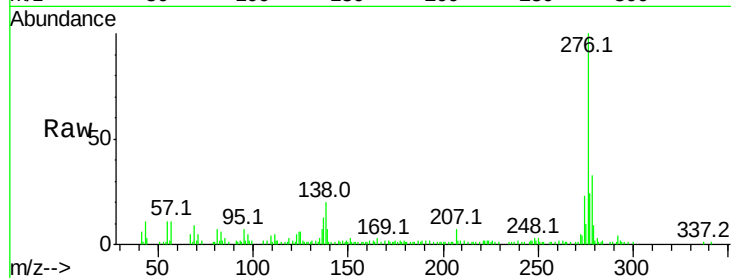




#90
Dibenzo(a,h)anthracene
Concen: 3.489 ng
RT: 17.02 min Scan# 2538
Delta R.T. -0.01 min
Lab File: BF100499.D
Acq: 13 Nov 2017 13:41

Instrument :
BNA_F
ClientSampleId :

Tot Ion:278 Resp: 27017
Ion Ratio Lower Upper
278 100
139 21.3 15.9 23.9
279 28.4 19.0 28.4



#91
Benzo(g,h,i)perylene
Concen: 9.394 ng
RT: 17.46 min Scan# 2614
Delta R.T. -0.00 min
Lab File: BF100499.D
Acq: 13 Nov 2017 13:41

Tgt Ion:276 Resp: 71215
Ion Ratio Lower Upper
276 100
277 24.9 17.9 26.9
138 18.4 21.8 32.8#

