

Data Path : U:\HPCHEM1\BNA F\DATA\BF012618\
 Data File : BF102493.D
 Acq On : 27 Jan 2018 3:53
 Operator : SJ/JU
 Sample : J1256-05DL 5X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jan 27 04:51:20 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF012218.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 26 16:18:07 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	154981	20.00	ng	0.00
21) Naphthalene-d8	8.00	136	615293	20.00	ng	0.00
38) Acenaphthene-d10	9.76	164	235900	20.00	ng	0.00
63) Phenanthrene-d10	11.25	188	329985	20.00	ng	0.00
75) Chrysene-d12	13.89	240	244221	20.00	ng	0.01
86) Perylene-d12	15.33	264	172952	20.00	ng	0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.32	112	207212	20.27	ng	0.00
7) Phenol-d6	6.36	99	252935	20.53	ng	0.00
23) Nitrobenzene-d5	7.28	82	133345	12.45	ng	0.00
41) 2,4,6-Tribromophenol	10.55	330	33495	14.33	ng	0.00
44) 2-Fluorobiphenyl	9.07	172	279986	17.45	ng	0.00
78) Terphenyl-d14	12.83	244	187664	17.32	ng	0.00

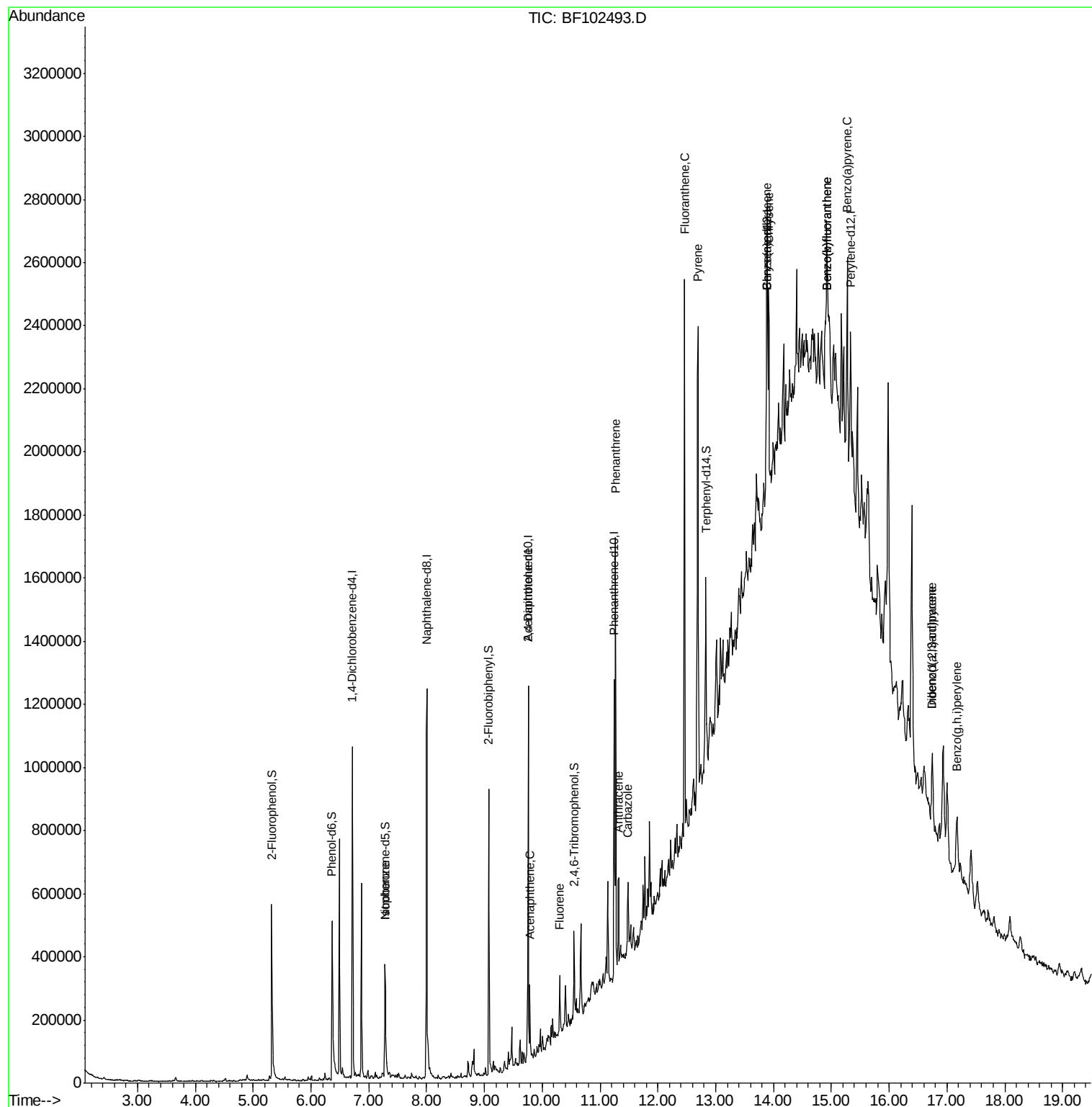
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
25) Isophorone	7.28	82	129977	6.809	ng	# 65
51) Acenaphthene	9.79	154	41620	2.790	ng	98
56) 2,4-Dinitrotoluene	9.76	165	32818	6.348	ng	# 24
57) Fluorene	10.30	166	56673	3.542	ng	96
70) Phenanthrene	11.27	178	484311	25.187	ng	99
71) Anthracene	11.32	178	126681	6.454	ng	100
72) Carbazole	11.48	167	64033	3.344	ng	98
74) Fluoranthene	12.46	202	726326	37.041	ng	98
77) Pyrene	12.69	202	701661	37.160	ng	99
80) Benzo(a)anthracene	13.88	228	305851	20.341	ng	97
82) Chrysene	13.92	228	291975	19.122	ng	98
85) Indeno(1,2,3-cd)pyrene	16.74	276	142737	11.319	ng	96
87) Benzo(b)fluoranthene	14.92	252	415870	37.099	ng	# 83
88) Benzo(k)fluoranthene	14.92	252	415870	39.267	ng	# 86
89) Benzo(a)pyrene	15.27	252	202963	20.075	ng	# 85
90) Dibenzo(a,h)anthracene	16.74	278	32867	4.013	ng	# 68
91) Benzo(g,h,i)perylene	17.17	276	148138	18.319	ng	94

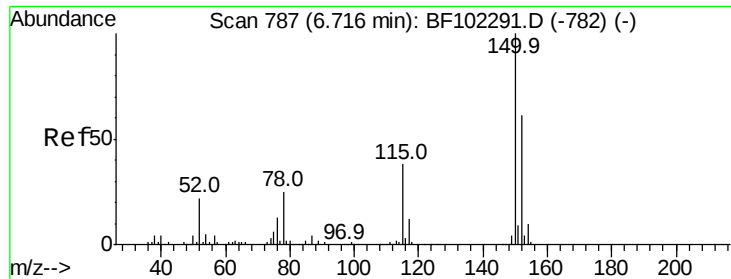
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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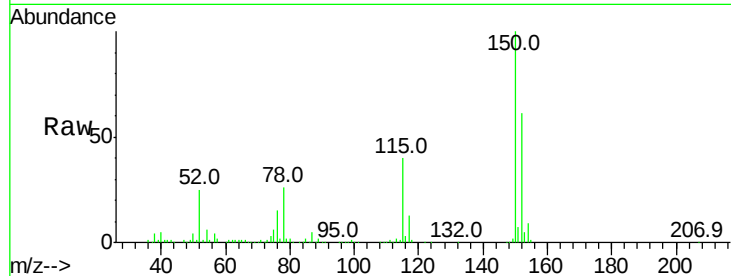


#1

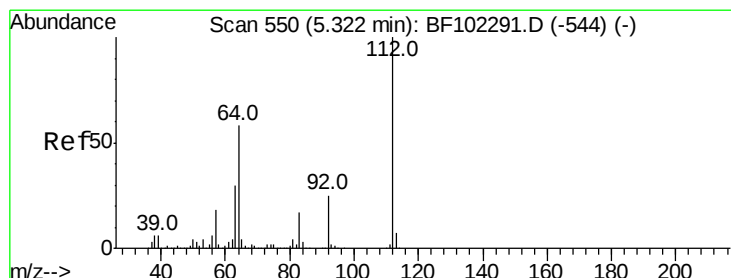
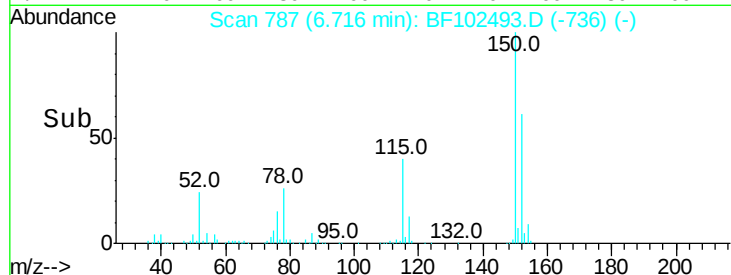
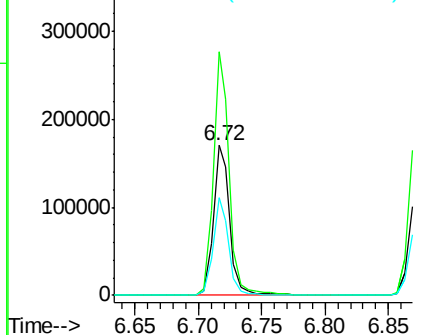
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.72 min Scan# 787
Delta R.T. 0.00 min
Lab File: BF102493.D
Acq: 27 Jan 2018 3:53

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 154981
Ion Ratio Lower Upper
152 100
150 162.6 124.6 186.8
115 65.3 50.1 75.1



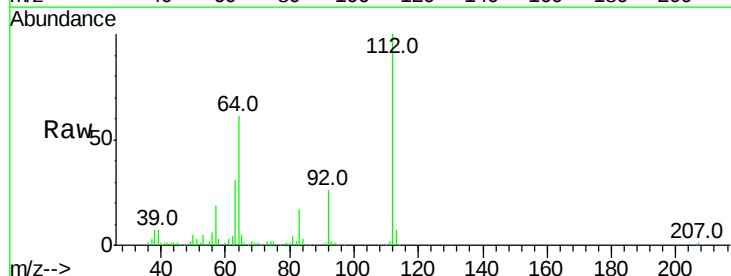
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



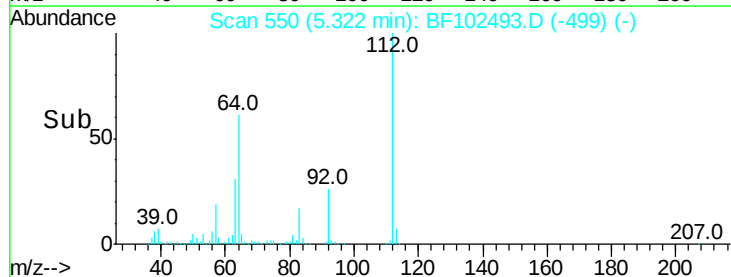
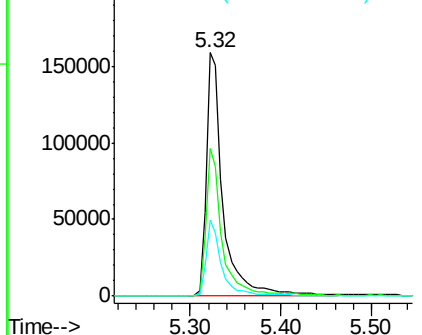
#5

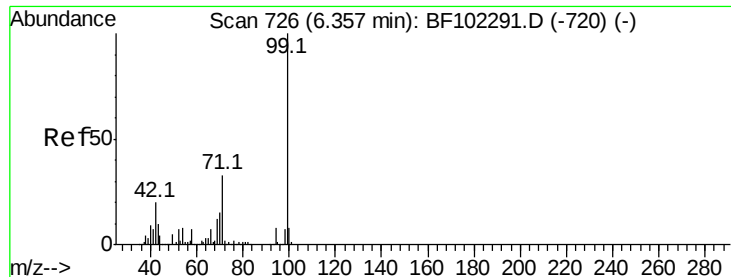
2-Fluorophenol
Concen: 20.273 ng
RT: 5.32 min Scan# 550
Delta R.T. 0.00 min
Lab File: BF102493.D
Acq: 27 Jan 2018 3:53

Tgt Ion:112 Resp: 207212
Ion Ratio Lower Upper
112 100
64 60.9 47.9 71.9
63 31.3 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: 20.526 ng

RT: 6.36 min Scan# 727

Delta R.T. 0.00 min

Lab File: BF102493.D

Acq: 27 Jan 2018 3:53

Instrument :

BNA_F

ClientSampleId :

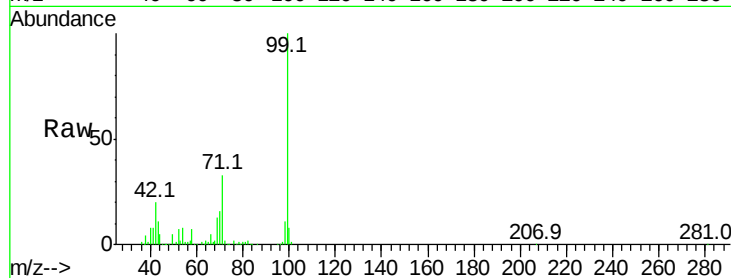
Tot Ion: 99 Resp: 252935

Ion Ratio Lower Upper

99 100

42 19.7 14.5 21.7

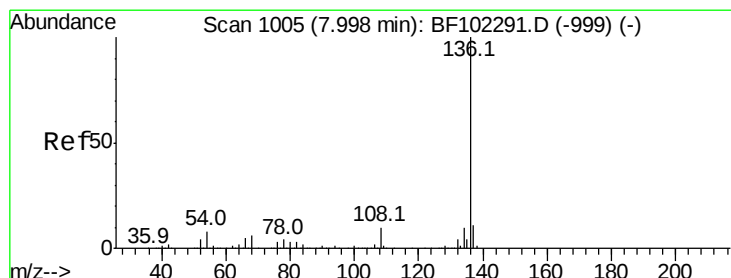
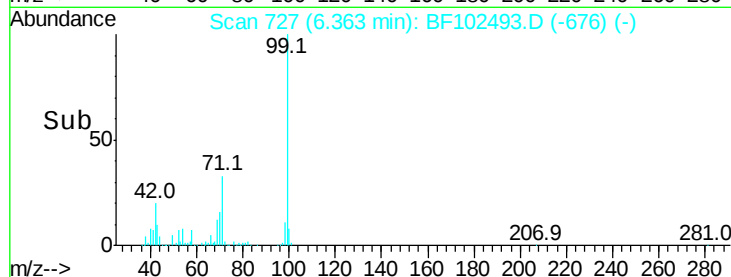
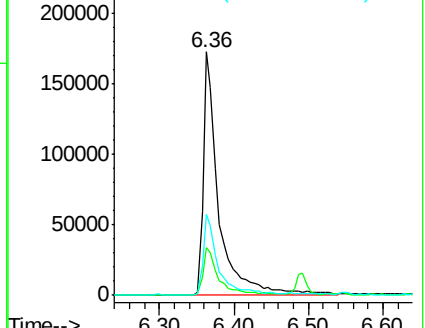
71 33.2 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.00 min Scan# 1006

Delta R.T. 0.01 min

Lab File: BF102493.D

Acq: 27 Jan 2018 3:53

Tgt Ion: 136 Resp: 615293

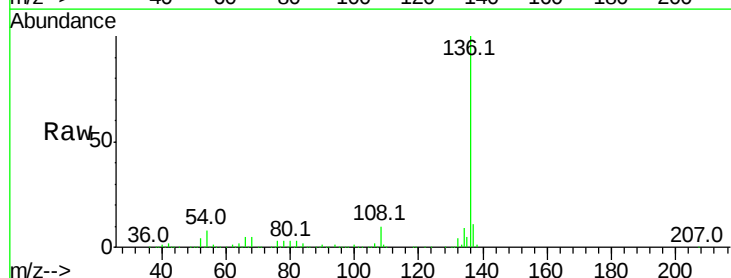
Ion Ratio Lower Upper

136 100

137 10.9 8.9 13.3

54 7.7 6.6 9.8

68 5.4 5.0 7.4

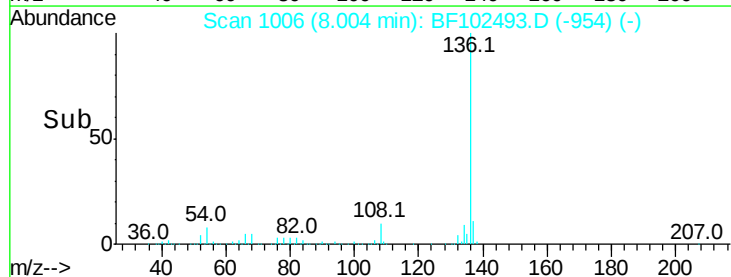
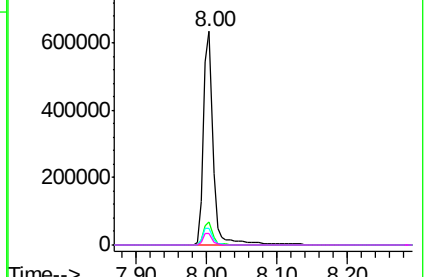


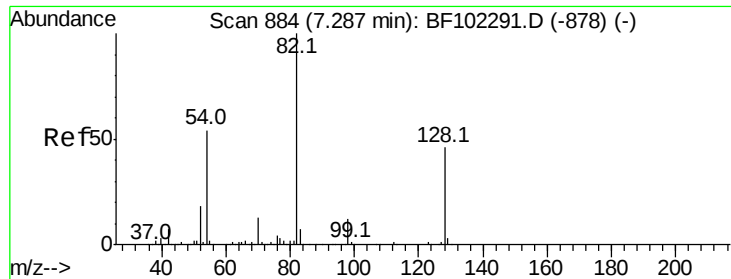
Abundance Ion 136.00 (135.70 to 136.70): E

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

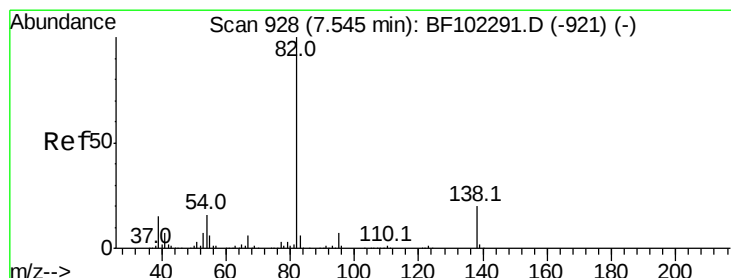
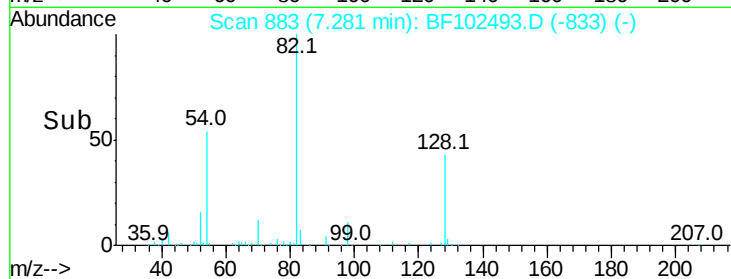
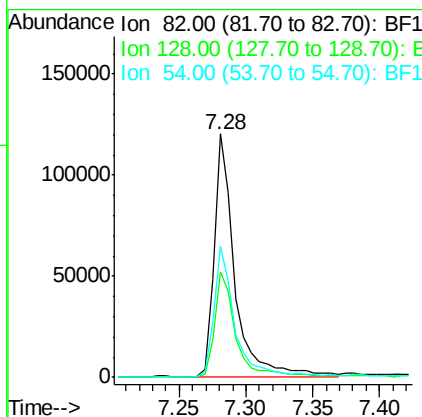
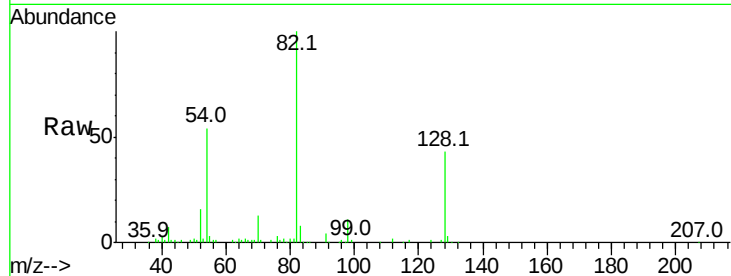




#23
 Nitrobenzene-d5
 Concen: 12.454 ng
 RT: 7.28 min Scan# 883
 Delta R.T. -0.01 min
 Lab File: BF102493.D
 Acq: 27 Jan 2018 3:53

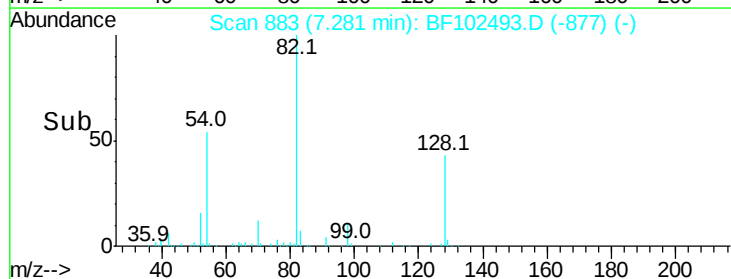
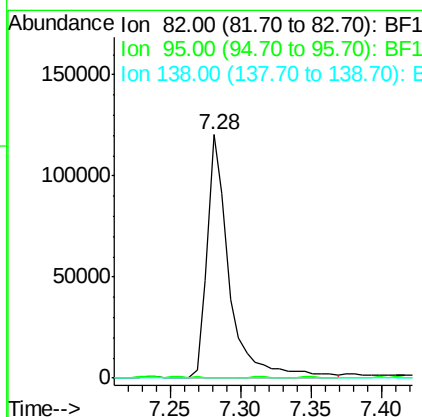
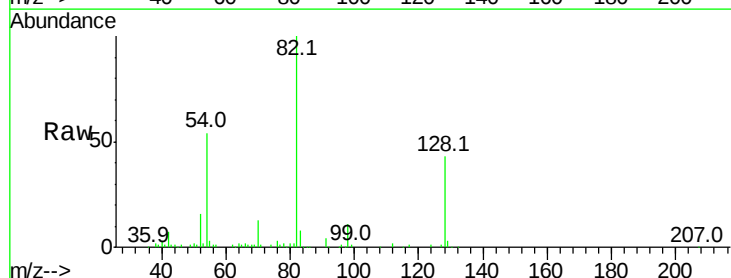
Instrument :
 BNA_F
 ClientSampleId :

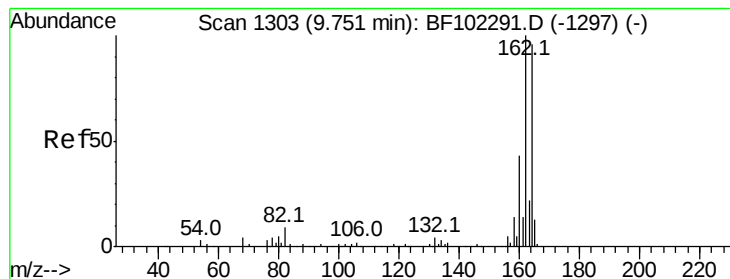
Tot Ion: 82 Resp: 133345
 Ion Ratio Lower Upper
 82 100
 128 43.4 36.1 54.1
 54 54.0 41.4 62.2



#25
 Isophorone
 Concen: 6.809 ng
 RT: 7.28 min Scan# 883
 Delta R.T. -0.26 min
 Lab File: BF102493.D
 Acq: 27 Jan 2018 3:53

Tgt Ion: 82 Resp: 129977
 Ion Ratio Lower Upper
 82 100
 95 0.4 5.2 7.8#
 138 0.0 14.9 22.3#





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.76 min Scan# 1304

Delta R.T. 0.00 min

Lab File: BF102493.D

Acq: 27 Jan 2018 3:53

Instrument :

BNA_F

ClientSampleId :

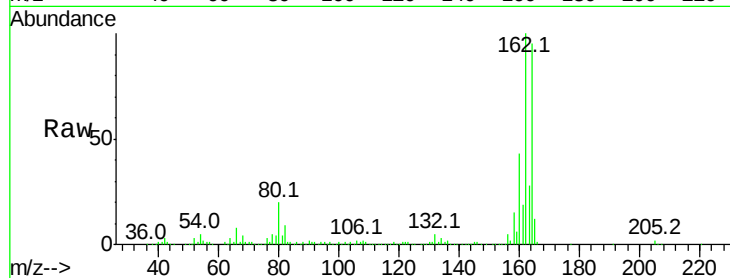
Tot Ion:164 Resp: 235900

Ion Ratio Lower Upper

164 100

162 105.0 86.1 129.1

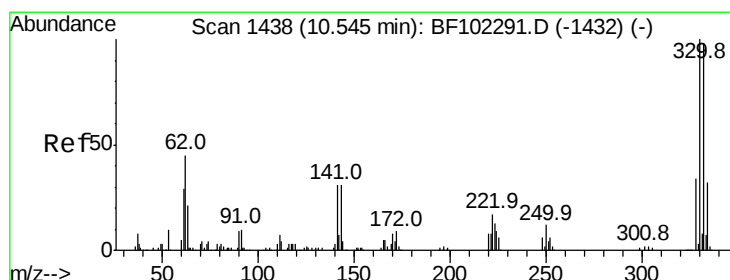
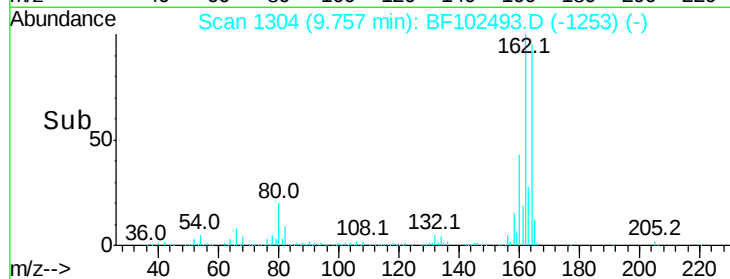
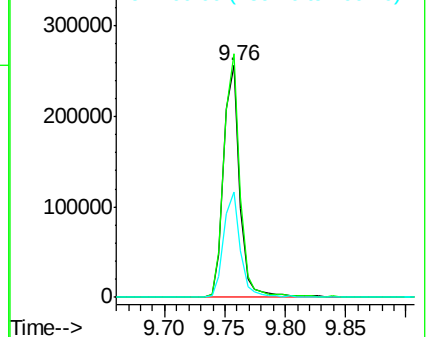
160 45.5 38.3 57.5



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: 14.330 ng

RT: 10.55 min Scan# 1439

Delta R.T. 0.01 min

Lab File: BF102493.D

Acq: 27 Jan 2018 3:53

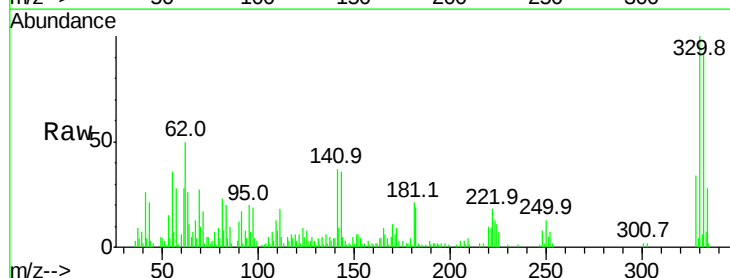
Tgt Ion:330 Resp: 33495

Ion Ratio Lower Upper

330 100

332 90.8 77.0 115.6

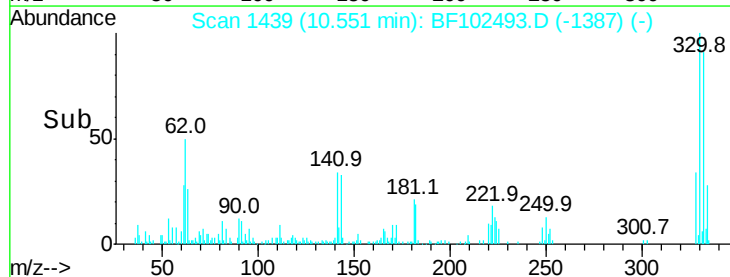
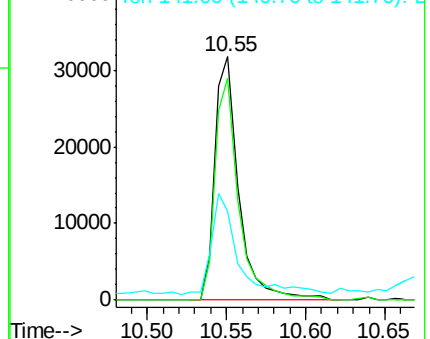
141 44.9 29.9 44.9#

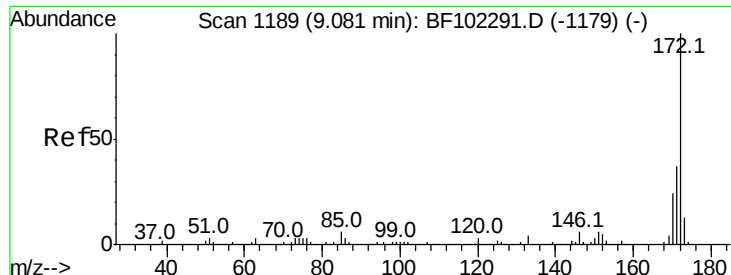


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

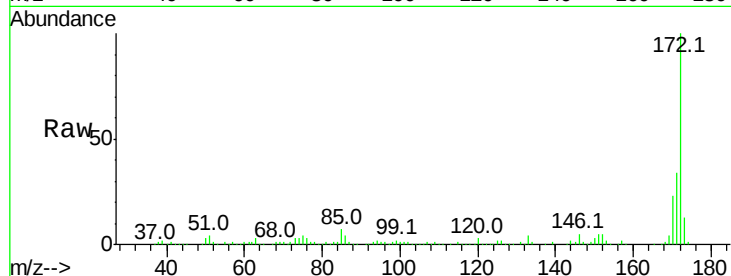




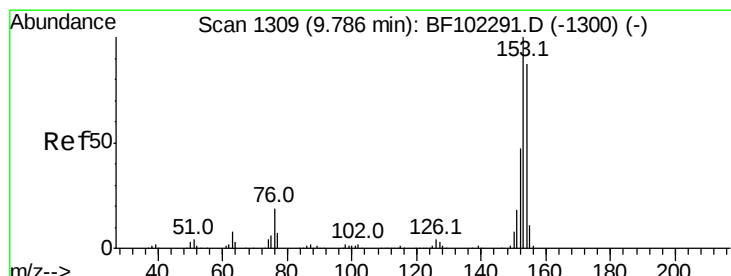
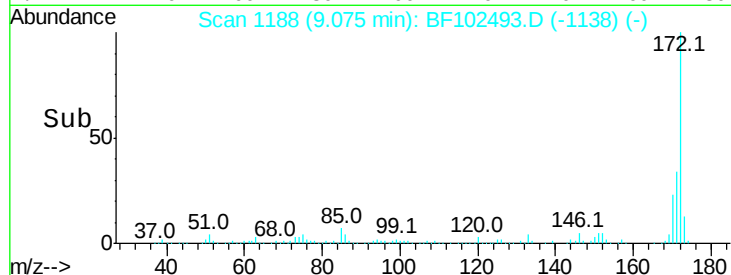
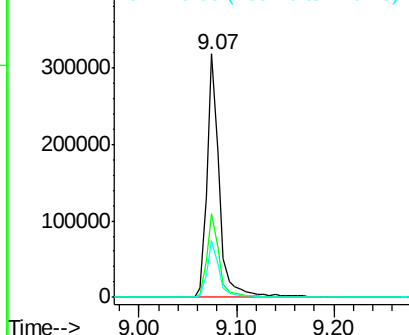
#44
 2-Fluorobiphenyl
 Concen: 17.451 ng
 RT: 9.07 min Scan# 1188
 Delta R.T. -0.01 min
 Lab File: BF102493.D
 Acq: 27 Jan 2018 3:53

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
172	100		
171	34.5	29.7	44.5
170	23.1	19.6	29.4

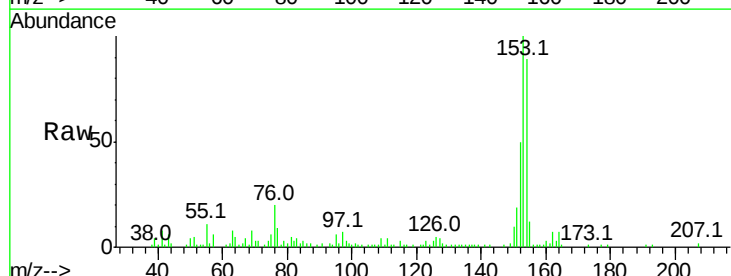


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

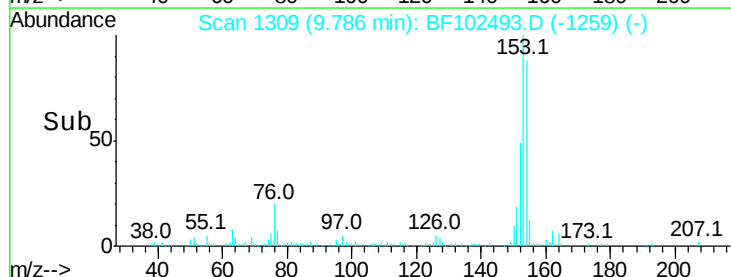
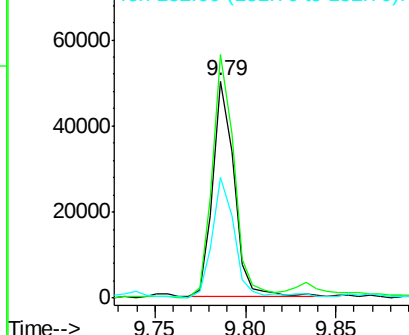


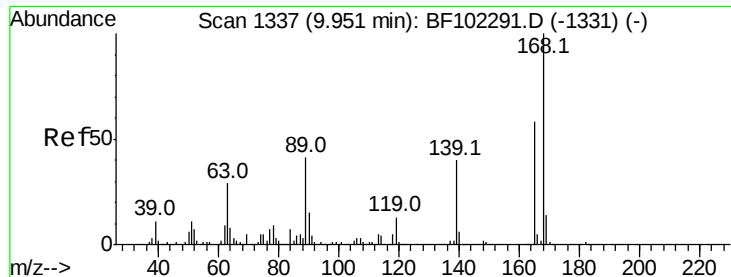
#51
 Acenaphthene
 Concen: 2.790 ng
 RT: 9.79 min Scan# 1309
 Delta R.T. -0.01 min
 Lab File: BF102493.D
 Acq: 27 Jan 2018 3:53

Tgt Ion	Ratio	Lower	Upper
154	100		
153	112.3	91.2	136.8
152	55.9	43.8	65.8



Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 152.00 (151.70 to 152.70): E

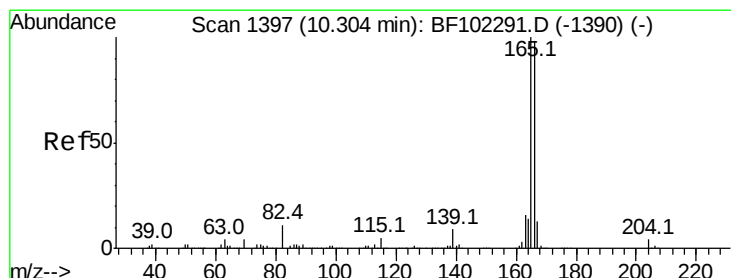
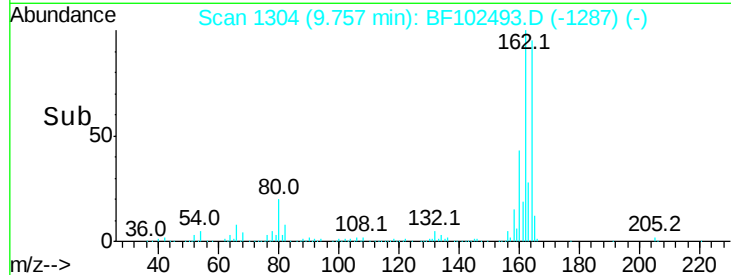
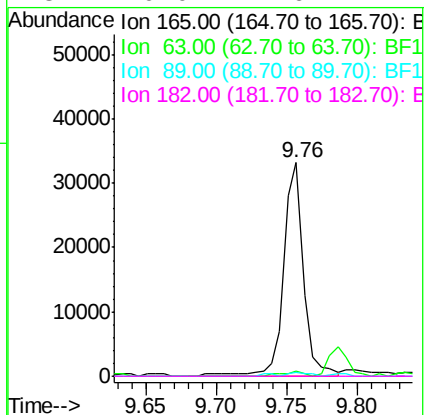
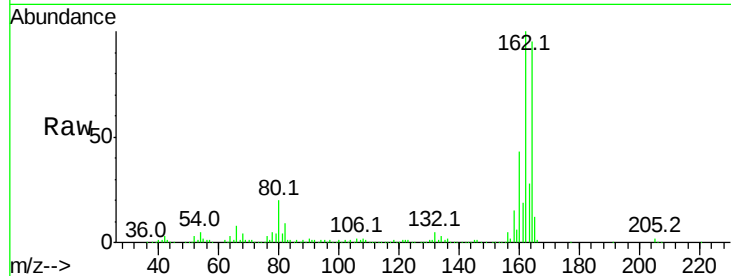




#56
 2,4-Dinitrotoluene
 Concen: 6.348 ng
 RT: 9.76 min Scan# 1304
 Delta R.T. -0.20 min
 Lab File: BF102493.D
 Acq: 27 Jan 2018 3:53

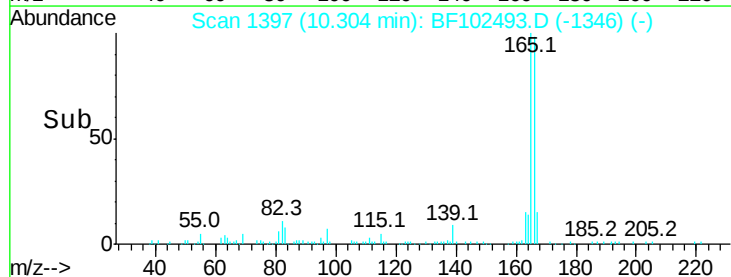
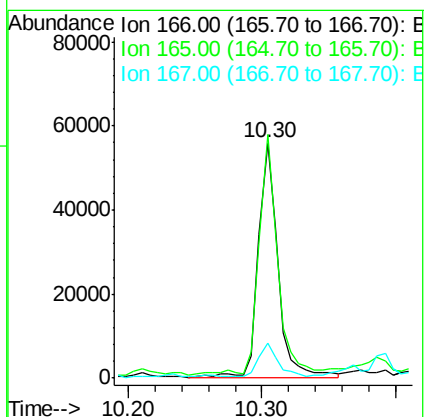
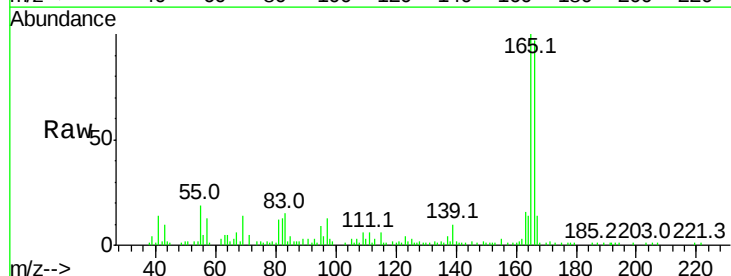
Instrument :
 BNA_F
 ClientSampleId :

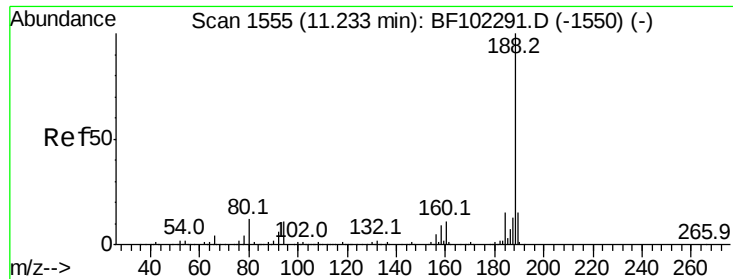
Tot Ion	Ratio	Lower	Upper
165	100		
63	2.5	36.4	54.6#
89	1.7	57.8	86.6#
182	0.0	1.6	2.4#



#57
 Fluorene
 Concen: 3.542 ng
 RT: 10.30 min Scan# 1397
 Delta R.T. -0.00 min
 Lab File: BF102493.D
 Acq: 27 Jan 2018 3:53

Tgt Ion	Ratio	Lower	Upper
166	100		
165	103.5	79.8	119.8
167	15.0	10.6	16.0

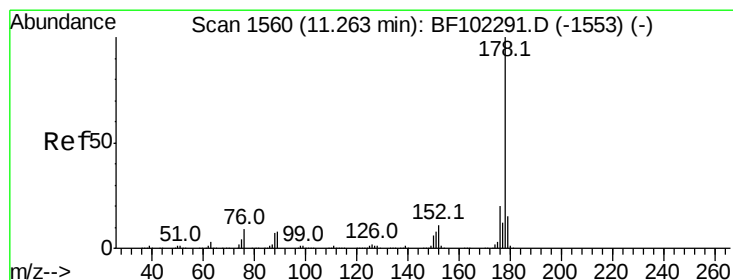
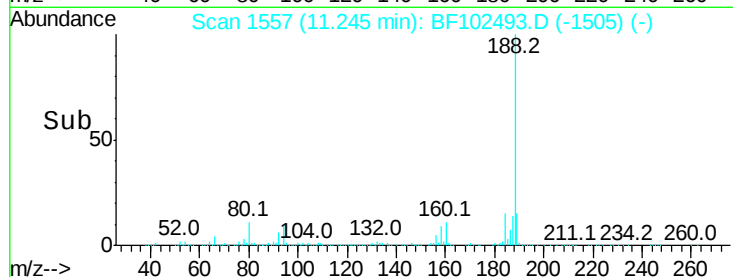
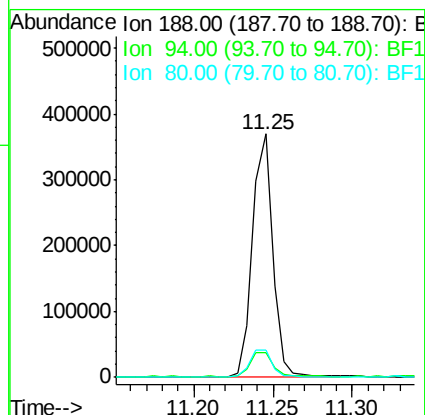
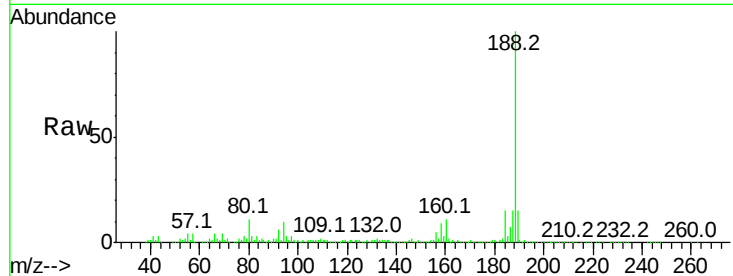




#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.25 min Scan# 1557
Delta R.T. 0.01 min
Lab File: BF102493.D
Acq: 27 Jan 2018 3:53

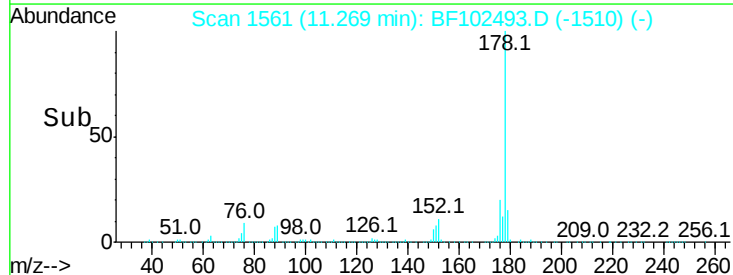
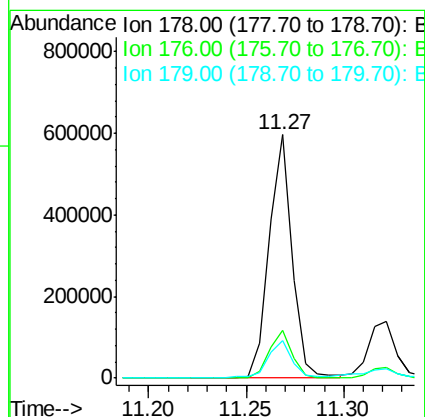
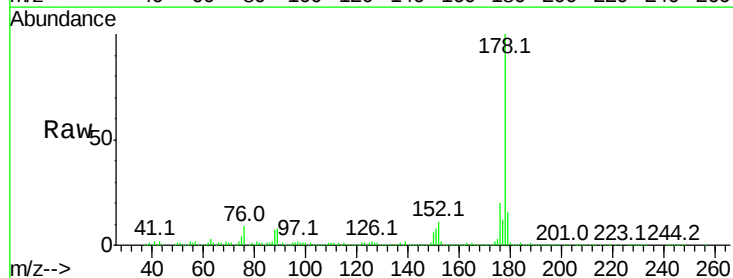
Instrument :
BNA_F
ClientSampled :

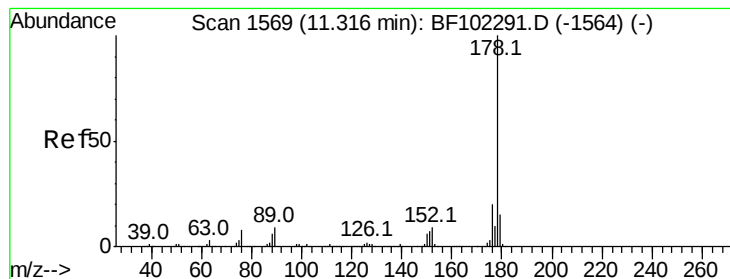
Tot Ion:188 Resp: 329985
Ion Ratio Lower Upper
188 100
94 10.3 8.5 12.7
80 11.0 9.2 13.8



#70
Phenanthrene
Concen: 25.187 ng
RT: 11.27 min Scan# 1561
Delta R.T. 0.00 min
Lab File: BF102493.D
Acq: 27 Jan 2018 3:53

Tgt Ion:178 Resp: 484311
Ion Ratio Lower Upper
178 100
176 19.6 15.8 23.8
179 15.6 13.0 19.6





#71

Anthracene

Concen: 6.454 ng

RT: 11.32 min Scan# 1570

Delta R.T. 0.01 min

Lab File: BF102493.D

Acq: 27 Jan 2018 3:53

Instrument :

BNA_F

ClientSampleId :

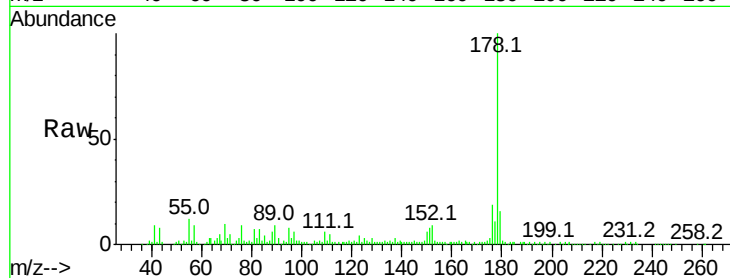
Tot Ion:178 Resp: 126681

Ion Ratio Lower Upper

178 100

176 19.3 15.4 23.2

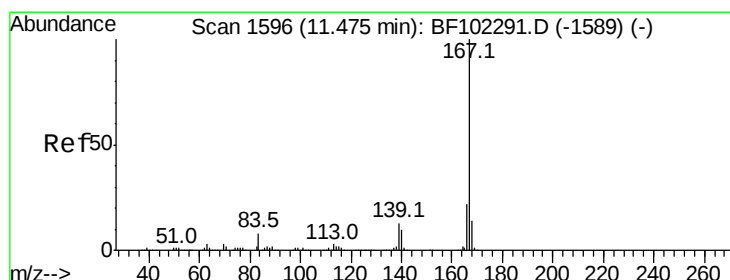
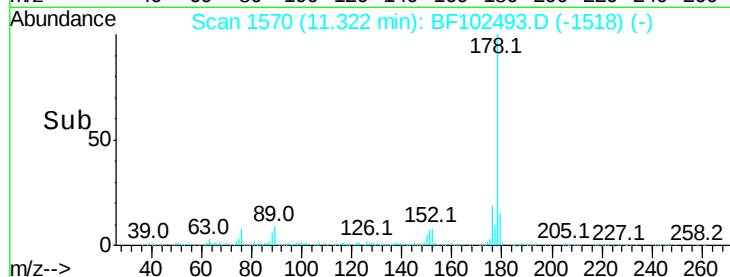
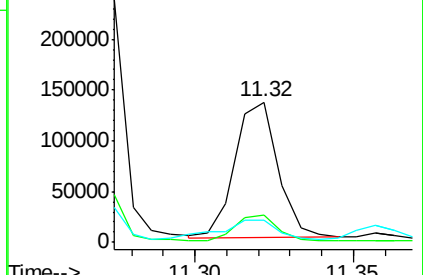
179 15.6 12.6 19.0



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: 3.344 ng

RT: 11.48 min Scan# 1597

Delta R.T. 0.01 min

Lab File: BF102493.D

Acq: 27 Jan 2018 3:53

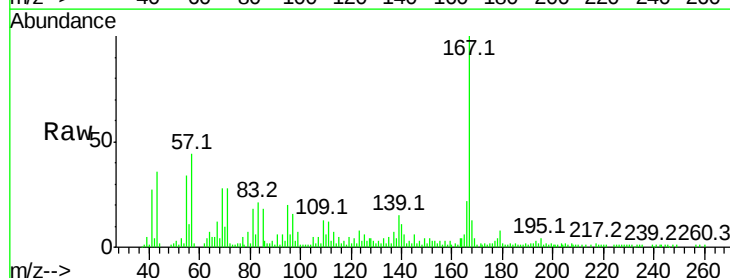
Tgt Ion:167 Resp: 64033

Ion Ratio Lower Upper

167 100

166 22.5 17.6 26.4

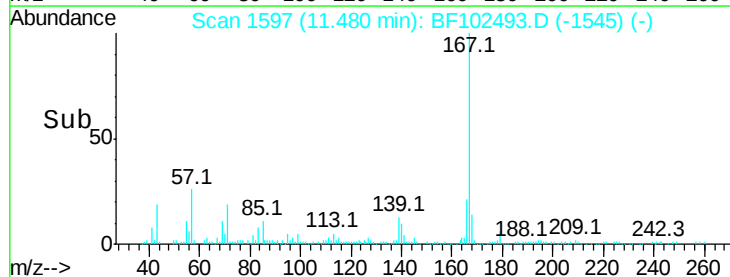
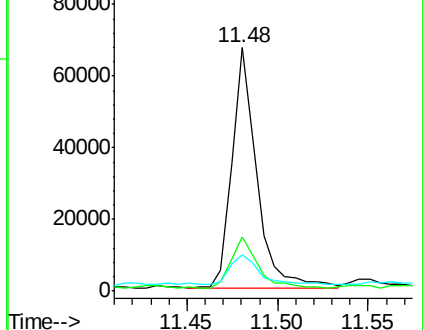
139 15.0 10.9 16.3

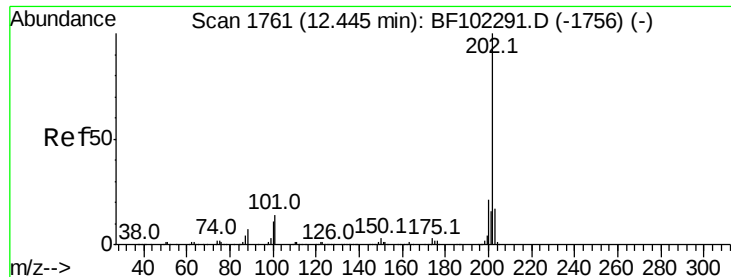


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 37.041 ng

RT: 12.46 min Scan# 1764

Delta R.T. 0.01 min

Lab File: BF102493.D

Acq: 27 Jan 2018 3:53

Instrument :

BNA_F

ClientSampleId :

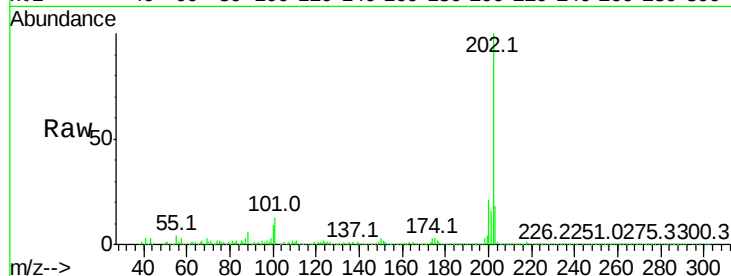
Tot Ion:202 Resp: 726326

Ion Ratio Lower Upper

202 100

101 12.7 0.0 34.1

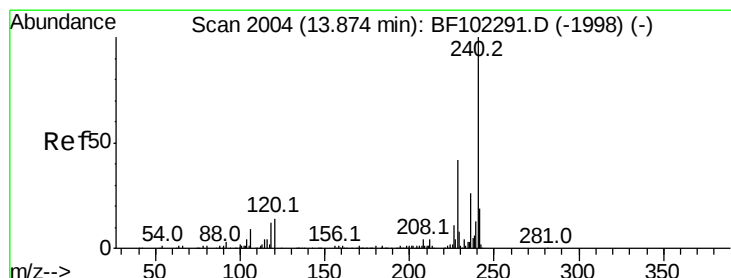
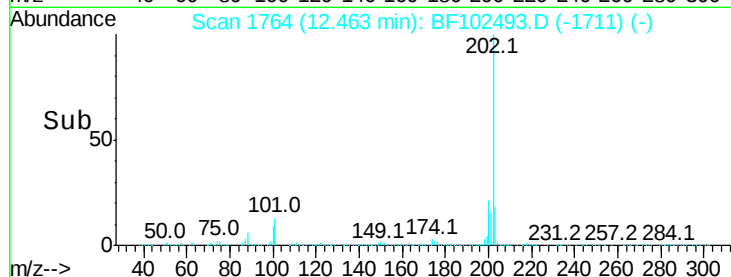
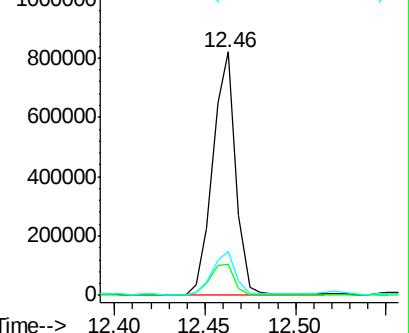
203 17.8 0.0 38.1



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: 20.000 ng

RT: 13.89 min Scan# 2007

Delta R.T. 0.01 min

Lab File: BF102493.D

Acq: 27 Jan 2018 3:53

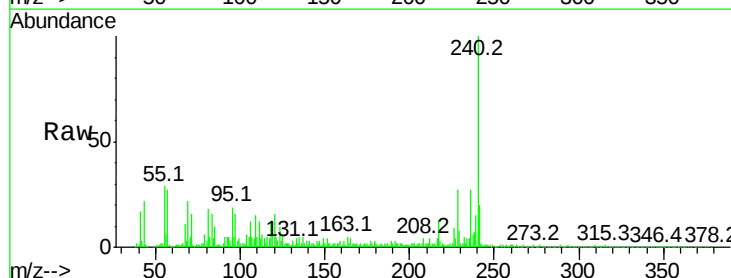
Tgt Ion:240 Resp: 244221

Ion Ratio Lower Upper

240 100

120 15.7 9.5 14.3#

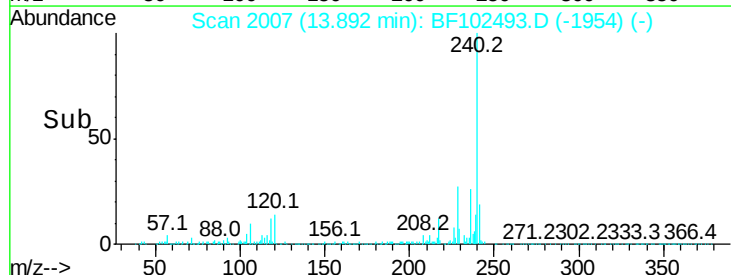
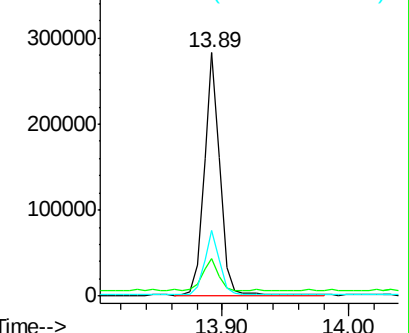
236 26.7 20.7 31.1

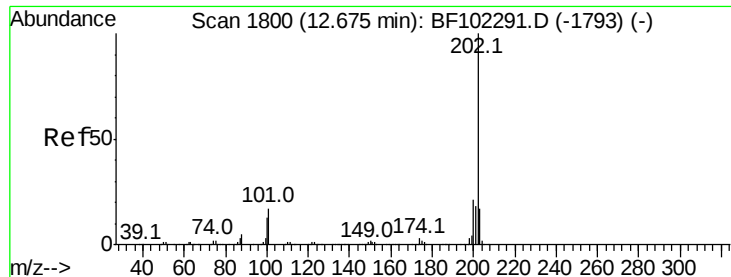


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 37.160 ng

RT: 12.69 min Scan# 1803

Delta R.T. 0.01 min

Lab File: BF102493.D

Acq: 27 Jan 2018 3:53

Instrument :

BNA_F

ClientSampleId :

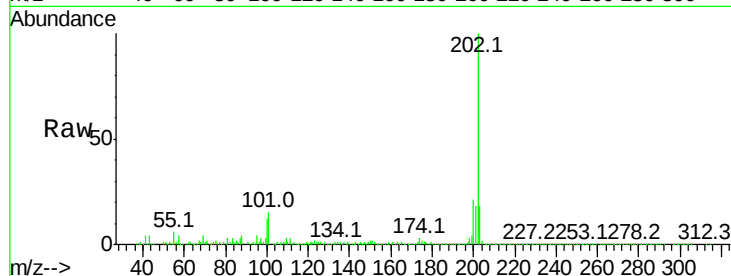
Tot Ion:202 Resp: 701661

Ion Ratio Lower Upper

202 100

200 21.5 17.4 26.2

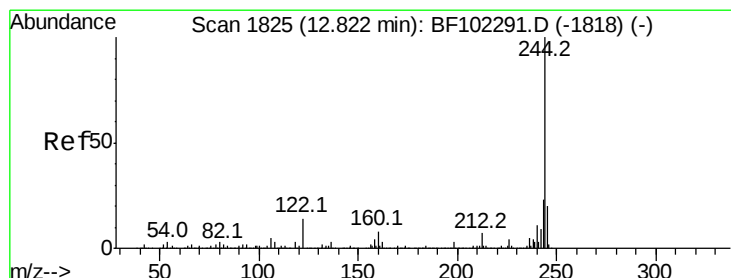
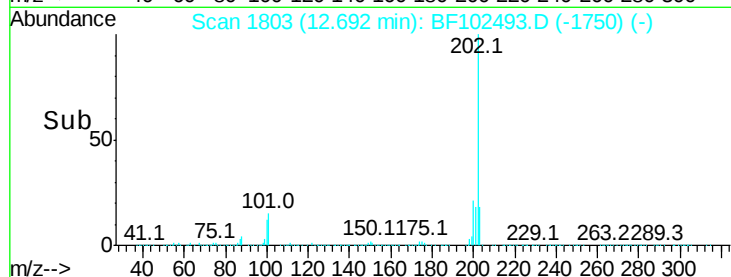
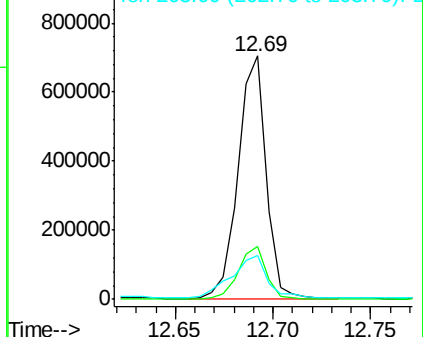
203 18.3 14.3 21.5



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: 17.323 ng

RT: 12.83 min Scan# 1826

Delta R.T. 0.00 min

Lab File: BF102493.D

Acq: 27 Jan 2018 3:53

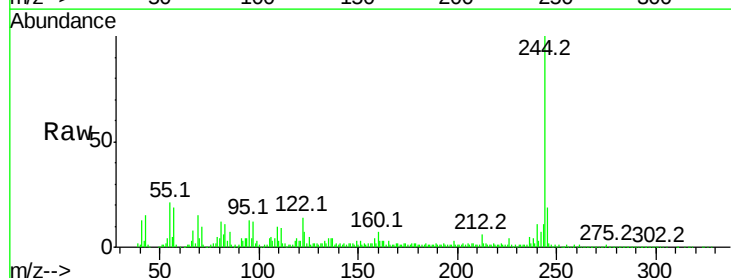
Tgt Ion:244 Resp: 187664

Ion Ratio Lower Upper

244 100

212 6.4 5.4 8.0

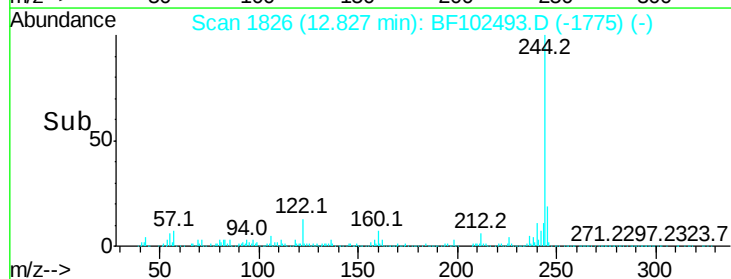
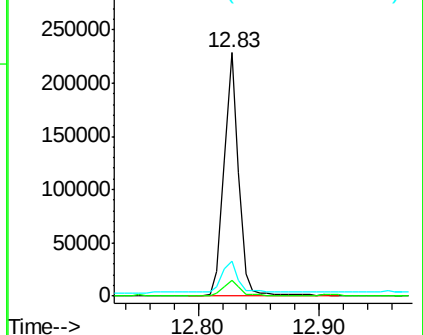
122 14.2 11.0 16.4

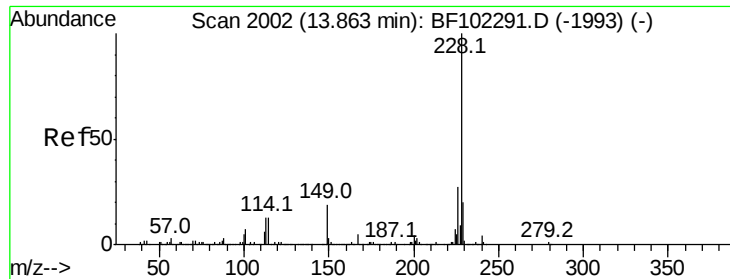


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 20.341 ng

RT: 13.88 min Scan# 2005

Delta R.T. 0.01 min

Lab File: BF102493.D

Acq: 27 Jan 2018 3:53

Instrument :

BNA_F

ClientSampleId :

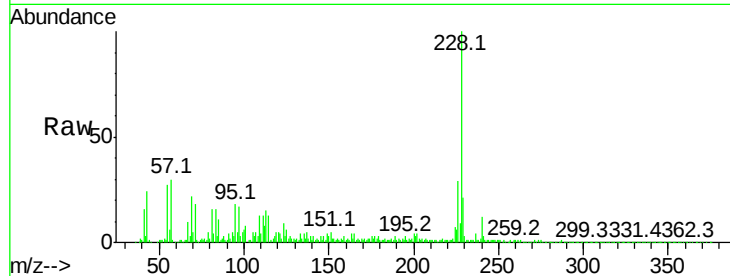
Tot Ion:228 Resp: 305851

Ion Ratio Lower Upper

228 100

226 29.1 22.6 33.8

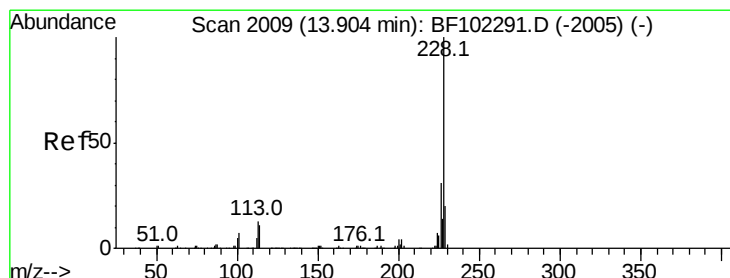
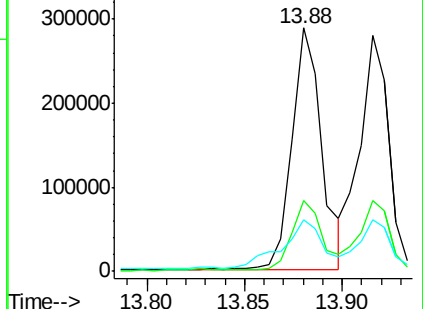
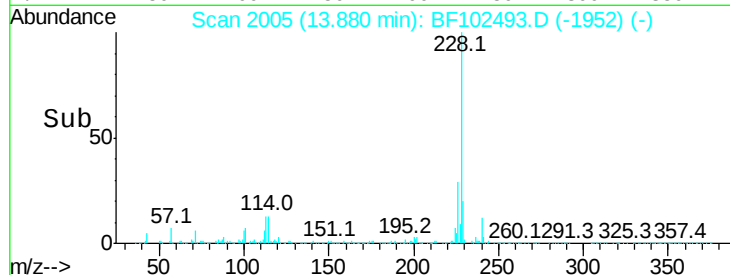
229 21.4 15.8 23.6



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: 19.122 ng

RT: 13.92 min Scan# 2011

Delta R.T. 0.01 min

Lab File: BF102493.D

Acq: 27 Jan 2018 3:53

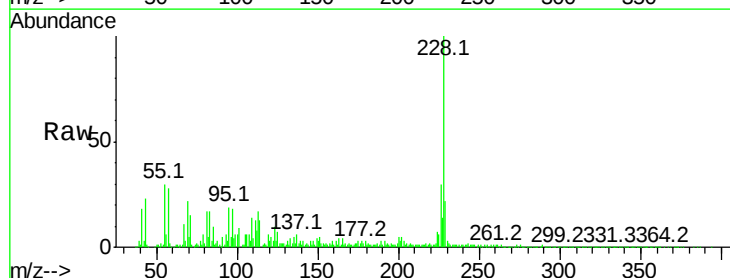
Tgt Ion:228 Resp: 291975

Ion Ratio Lower Upper

228 100

226 30.3 25.0 37.6

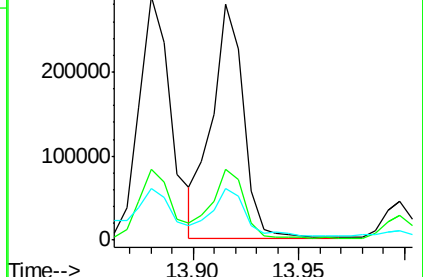
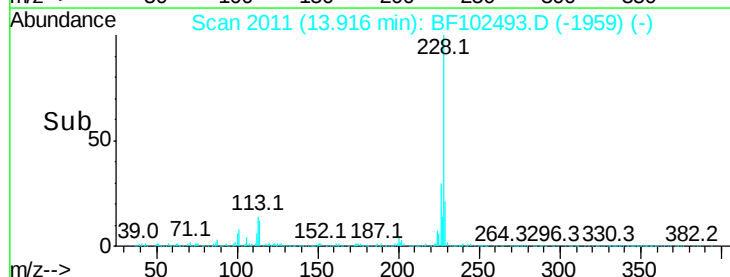
229 21.9 16.2 24.4

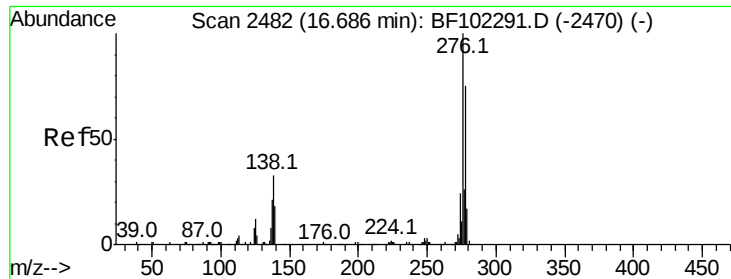


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

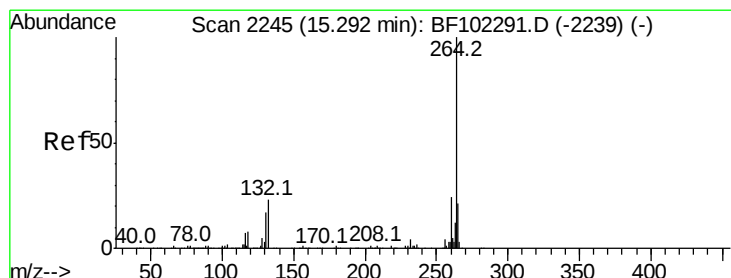
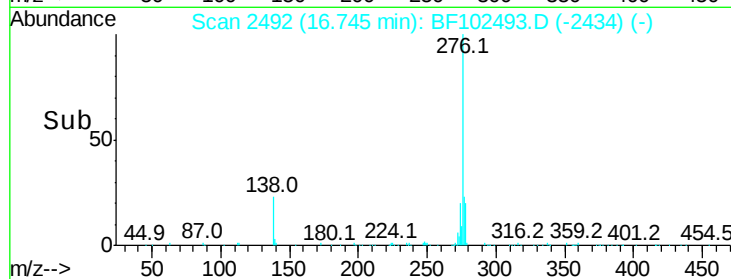
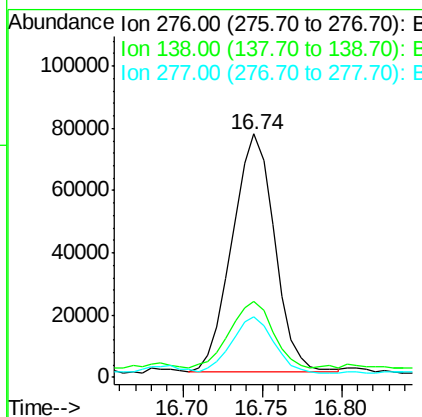
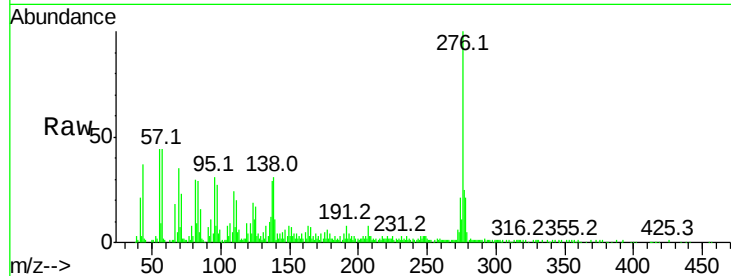




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 11.319 ng
 RT: 16.74 min Scan# 2492
 Delta R.T. 0.04 min
 Lab File: BF102493.D
 Acq: 27 Jan 2018 3:53

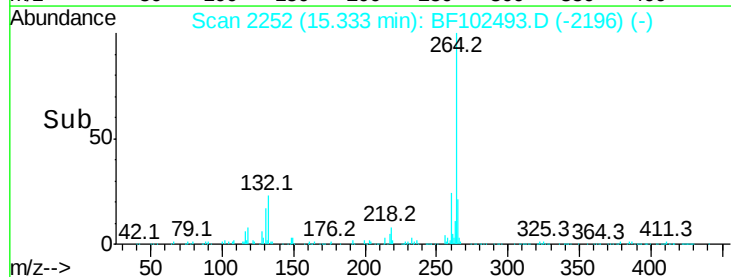
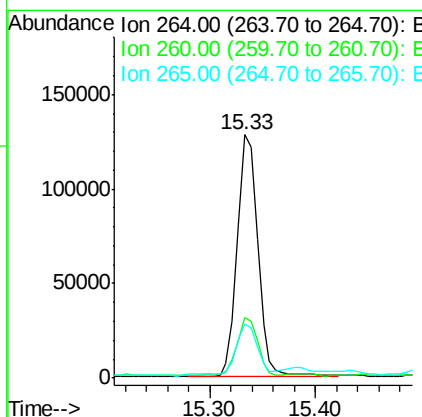
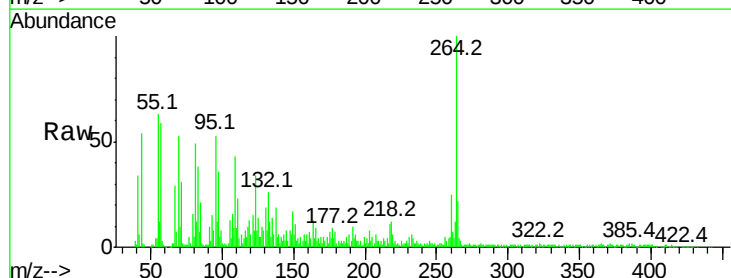
Instrument :
 BNA_F
 ClientSampled :

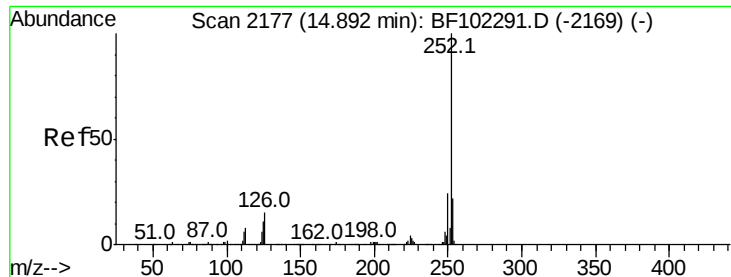
Tot Ion	Ratio	Lower	Upper
276	100		
138	28.3	25.0	37.6
277	23.5	20.1	30.1



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.33 min Scan# 2252
 Delta R.T. 0.03 min
 Lab File: BF102493.D
 Acq: 27 Jan 2018 3:53

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.1	19.2	28.8
265	22.3	17.5	26.3





#87

Benzo(b)fluoranthene

Concen: 37.099 ng

RT: 14.92 min Scan# 2182

Delta R.T. 0.02 min

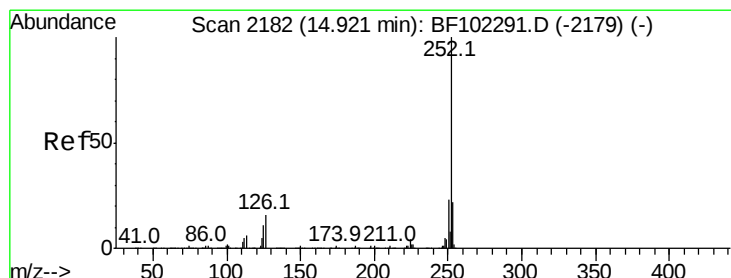
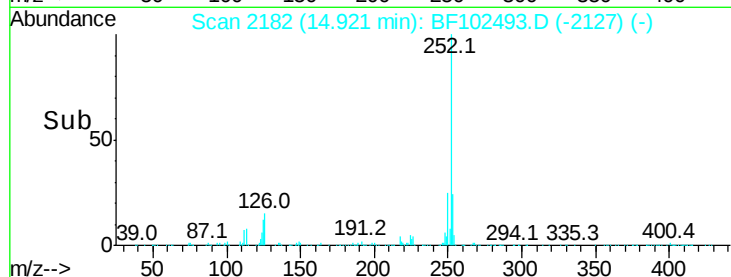
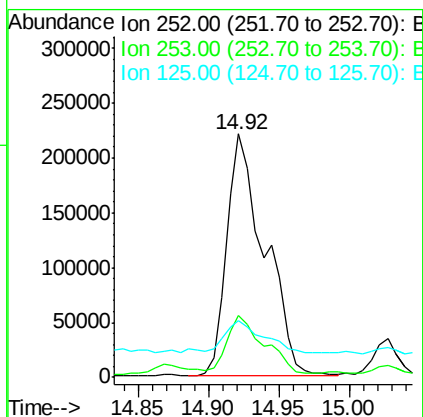
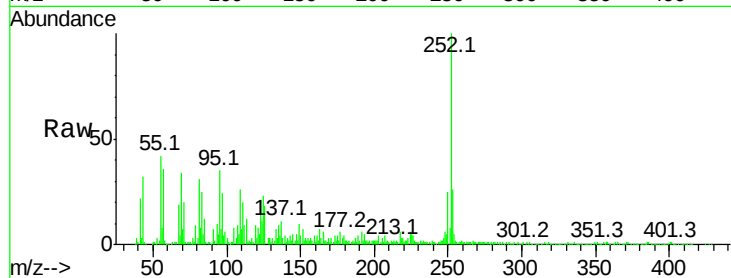
Lab File: BF102493.D

Acq: 27 Jan 2018 3:53

Instrument :
BNA_F
ClientSampled :

Tot Ion:252 Resp: 415870

Ion	Ratio	Lower	Upper
252	100		
253	25.6	17.0	25.6#
125	23.2	9.0	13.6#



#88

Benzo(k)fluoranthene

Concen: 39.267 ng

RT: 14.92 min Scan# 2182

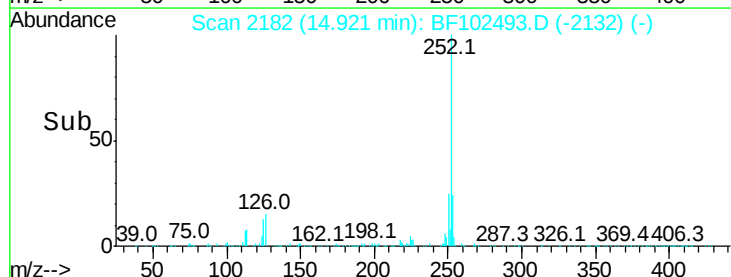
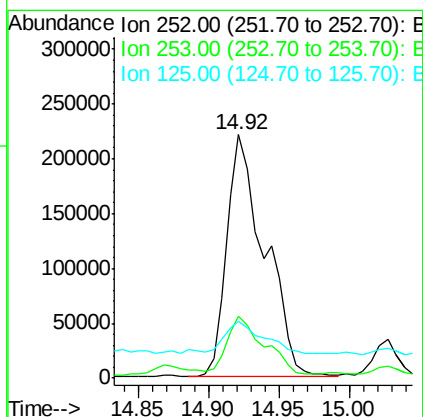
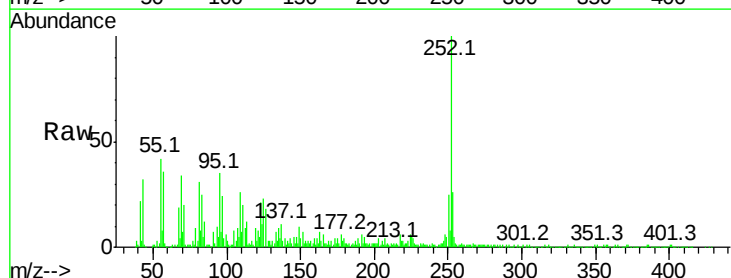
Delta R.T. -0.01 min

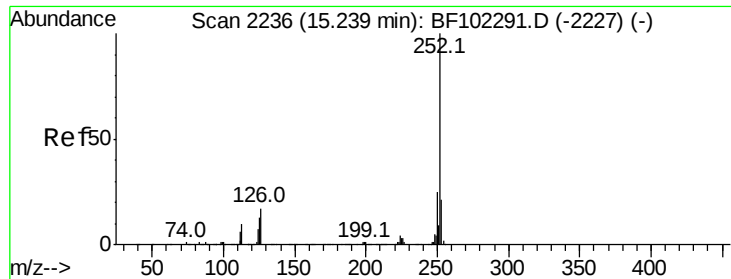
Lab File: BF102493.D

Acq: 27 Jan 2018 3:53

Tgt Ion:252 Resp: 415870

Ion	Ratio	Lower	Upper
252	100		
253	25.6	17.9	26.9
125	23.2	10.2	15.2#





#89

Benzo(a)pyrene

Concen: 20.075 ng

RT: 15.27 min Scan# 2242

Delta R.T. 0.03 min

Lab File: BF102493.D

Acq: 27 Jan 2018 3:53

Instrument :

BNA_F

ClientSampleId :

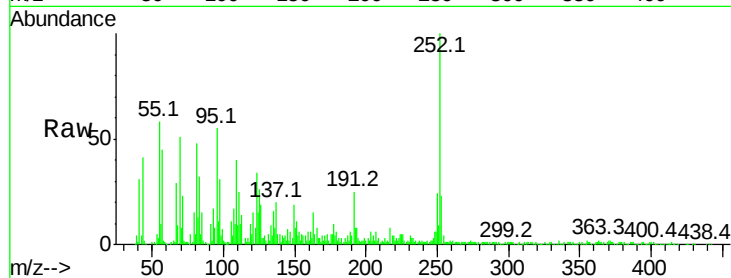
Tot Ion:252 Resp: 202963

Ion Ratio Lower Upper

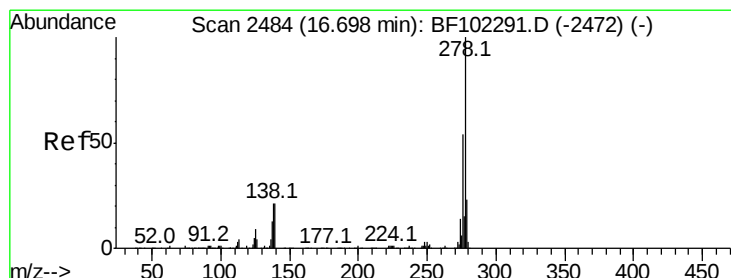
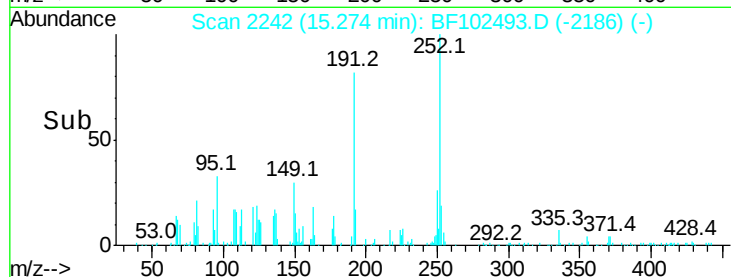
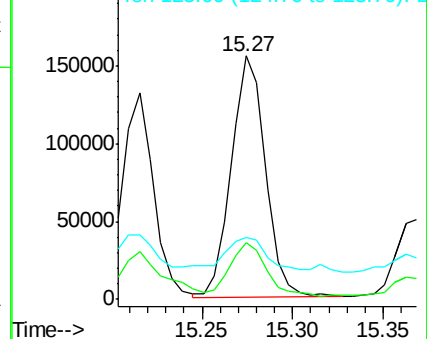
252 100

253 23.3 17.1 25.7

125 25.6 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



#90

Dibenzo(a,h)anthracene

Concen: 4.013 ng

RT: 16.74 min Scan# 2492

Delta R.T. 0.03 min

Lab File: BF102493.D

Acq: 27 Jan 2018 3:53

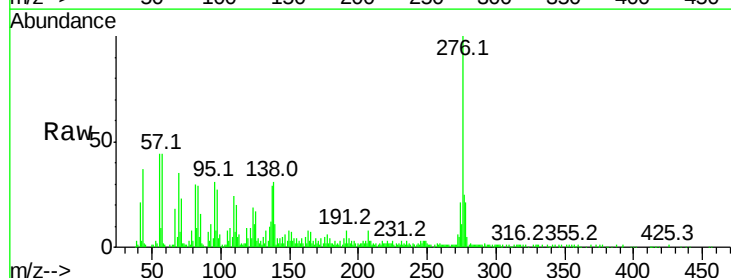
Tgt Ion:278 Resp: 32867

Ion Ratio Lower Upper

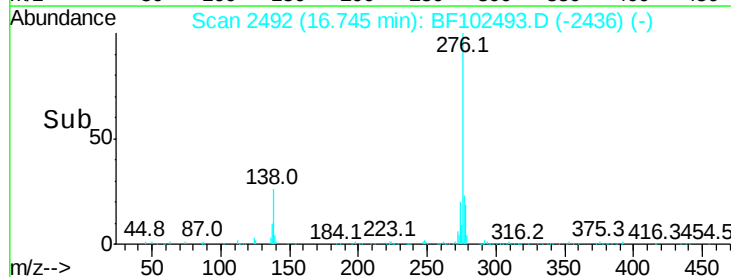
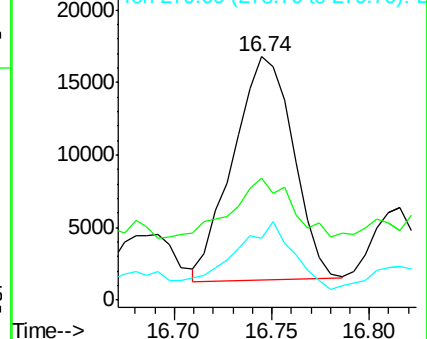
278 100

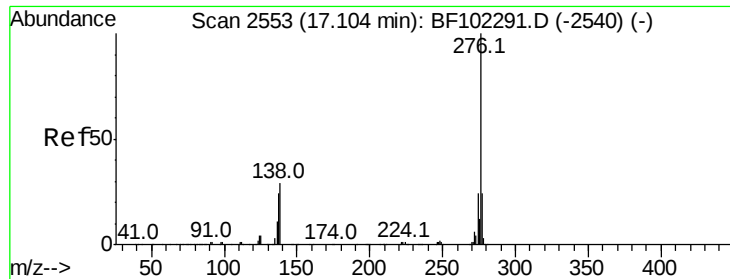
139 50.4 15.9 23.9#

279 25.3 19.0 28.4



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#91

Benzo(a,h,i)perylene

Concen: 18.319 ng

RT: 17.17 min Scan# 2565

Delta R.T. 0.05 min

Lab File: BF102493.D

Acq: 27 Jan 2018 3:53

Instrument :

BNA_F

ClientSampleId :

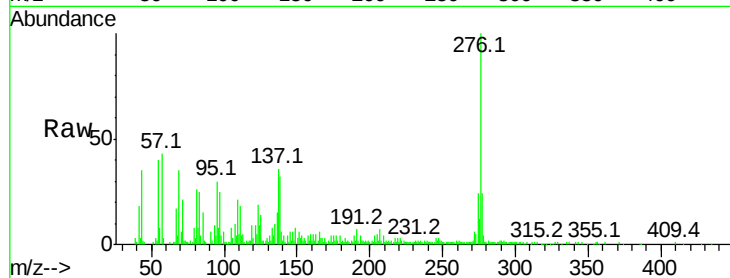
Tot Ion:276 Resp: 148138

Ion Ratio Lower Upper

276 100

277 24.3 17.9 26.9

138 31.6 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

