

Data Path : Z:\HPCHEM1\BNA F\DATA\BF112817\
 Data File : BF100947.D
 Acq On : 28 Nov 2017 21:14
 Operator : SJ/JU
 Sample : I6610-08 10X
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Nov 29 00:41:34 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 28 15:21:02 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.86	152	56193	20.00	ng	0.00
21) Naphthalene-d8	8.14	136	199941	20.00	ng	0.00
38) Acenaphthene-d10	9.89	164	79517	20.00	ng	0.00
63) Phenanthrene-d10	11.38	188	134137	20.00	ng	0.00
75) Chrysene-d12	14.02	240	142846	20.00	ng	0.00
86) Perylene-d12	15.50	264	118514	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	36622	10.45	ng	0.00
7) Phenol-d6	6.48	99	41474	9.59	ng	-0.01
23) Nitrobenzene-d5	7.42	82	23561	7.79	ng	-0.01
41) 2,4,6-Tribromophenol	10.68	330	8135	10.04	ng	0.00
44) 2-Fluorobiphenyl	9.21	172	51447	9.85	ng	0.00
78) Terphenyl-d14	12.96	244	46504	7.48	ng	0.00

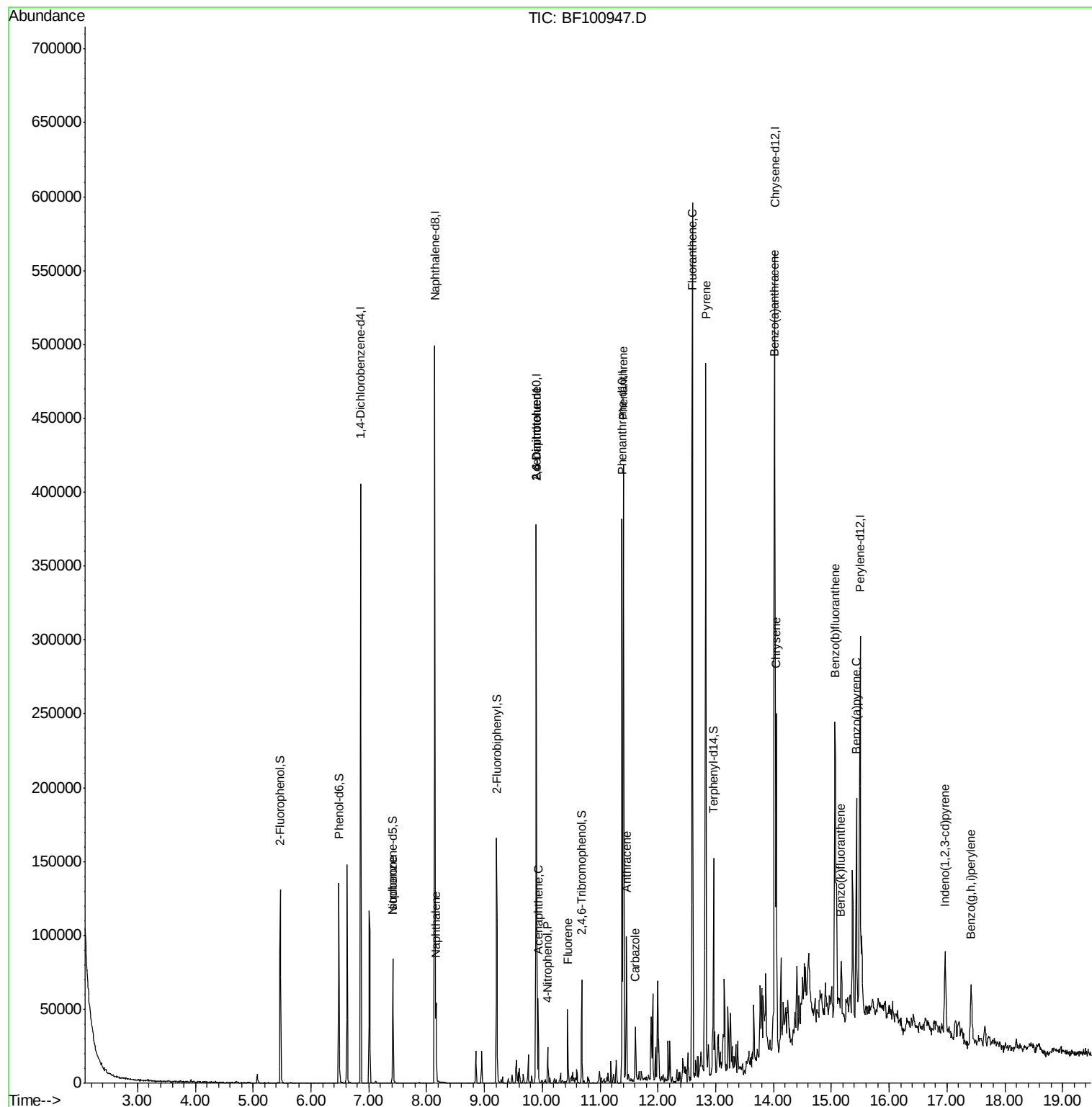
Target Compounds				Qvalue		
25) Isophorone	7.42	82	23560	3.707	ng	# 64
31) Naphthalene	8.16	128	22340	2.320	ng	99
50) 2,6-Dinitrotoluene	9.89	165	10241	8.522	ng	# 24
51) Acenaphthene	9.93	154	11138	2.215	ng	92
55) 4-Nitrophenol	10.10	139	3703	3.214	ng	# 9
56) 2,4-Dinitrotoluene	9.89	165	10241	6.755	ng	# 21
57) Fluorene	10.44	166	15367	2.976	ng	95
70) Phenanthrene	11.40	178	156310	22.132	ng	99
71) Anthracene	11.46	178	35848	5.003	ng	100
72) Carbazole	11.61	167	16738	2.532	ng	99
74) Fluoranthene	12.60	202	221738	29.625	ng	94
77) Pvrene	12.83	202	192045	18.860	ng	97
80) Benzo(a)anthracene	14.01	228	103414	12.022	ng	97
82) Chrysene	14.05	228	92013	11.046	ng	97
85) Indeno(1,2,3-cd)pyrene	16.97	276	37120	5.509	ng	# 91
87) Benzo(b)fluoranthene	15.06	252	143610	20.453	ng	97
88) Benzo(k)fluoranthene	15.17	252	17409	2.624	ng	97
89) Benzo(a)pyrene	15.43	252	69541	11.172	ng	97
91) Benzo(a,h,i)perylene	17.42	276	34867	6.997	ng	# 92

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

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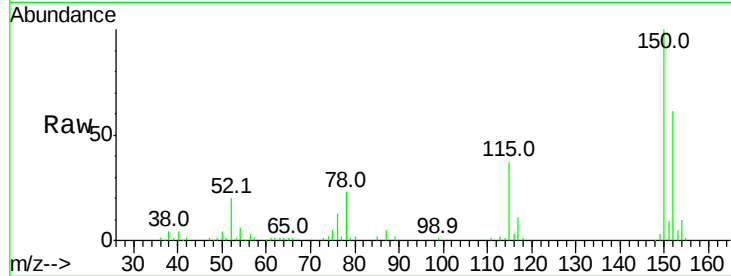


#1

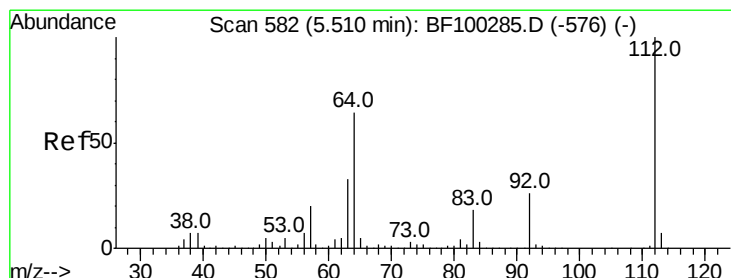
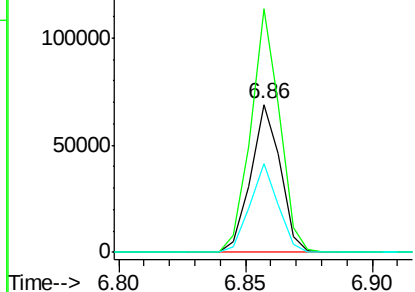
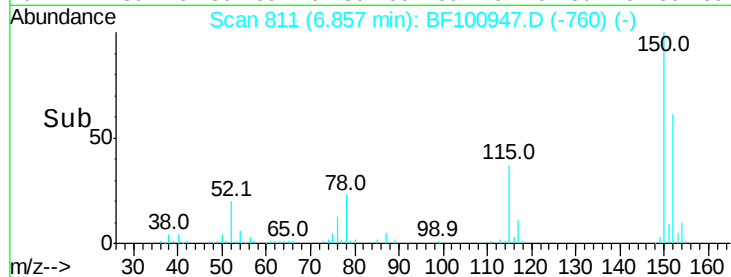
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.86 min Scan# 811
Delta R.T. -0.00 min
Lab File: BF100947.D
Acq: 28 Nov 2017 21:14

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 56193
Ion Ratio Lower Upper
152 100
150 164.7 124.6 186.8
115 60.2 50.1 75.1



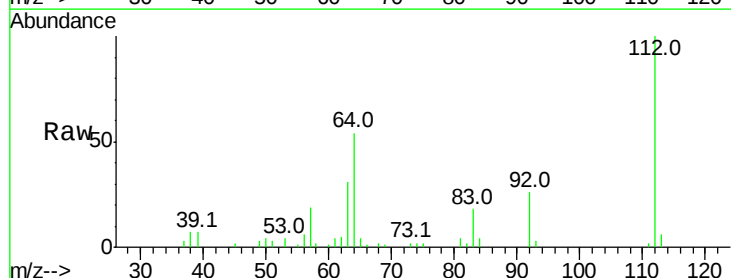
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



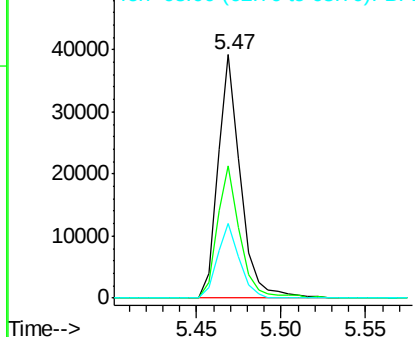
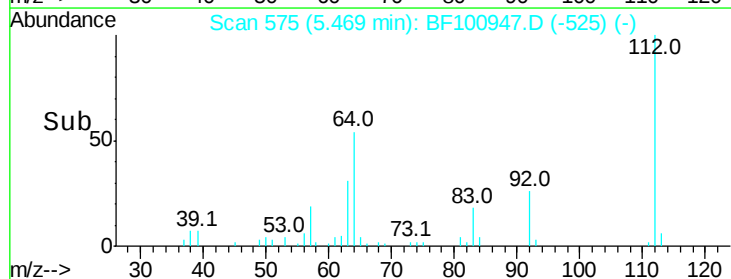
#5

2-Fluorophenol
Concen: 10.447 ng
RT: 5.47 min Scan# 575
Delta R.T. -0.01 min
Lab File: BF100947.D
Acq: 28 Nov 2017 21:14

Tgt Ion:112 Resp: 36622
Ion Ratio Lower Upper
112 100
64 54.5 47.9 71.9
63 30.6 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: 9.594 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF100947.D

Acq: 28 Nov 2017 21:14

Instrument :

BNA_F

ClientSampleId :

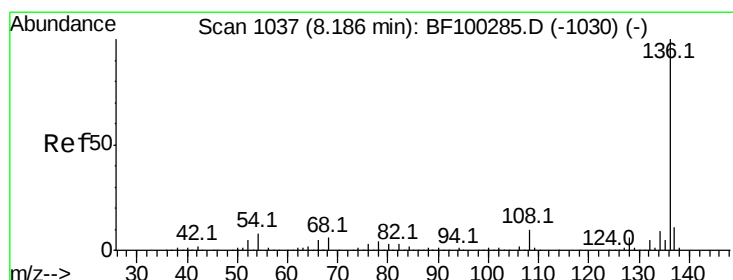
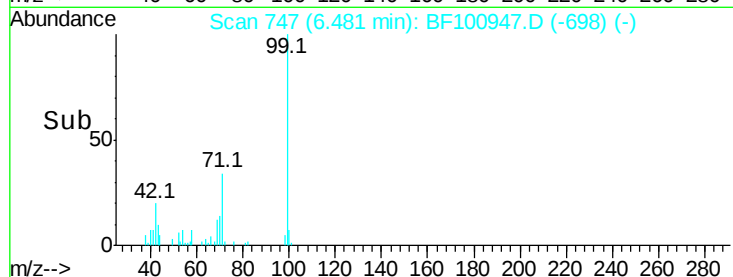
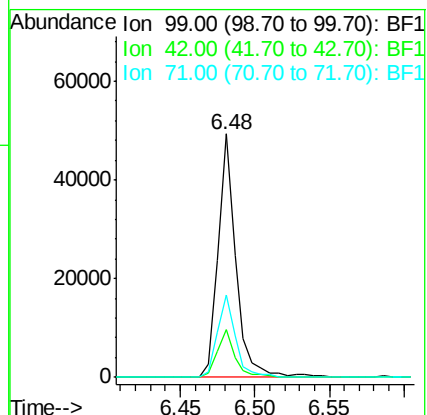
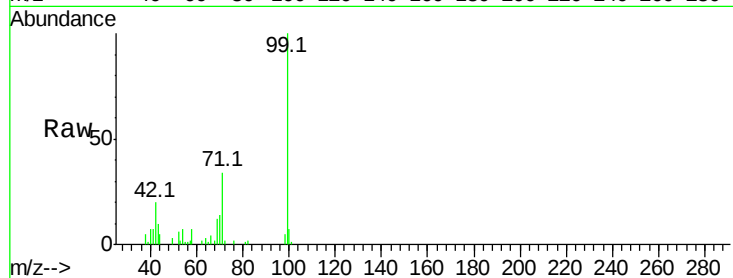
Tot Ion: 99 Resp: 41474

Ion Ratio Lower Upper

99 100

42 19.7 14.5 21.7

71 33.7 25.4 38.0



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.14 min Scan# 1029

Delta R.T. -0.00 min

Lab File: BF100947.D

Acq: 28 Nov 2017 21:14

Tgt Ion: 136 Resp: 199941

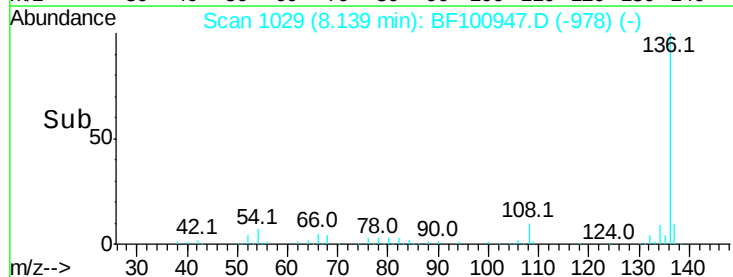
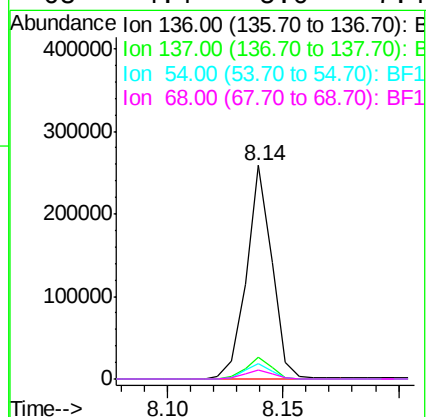
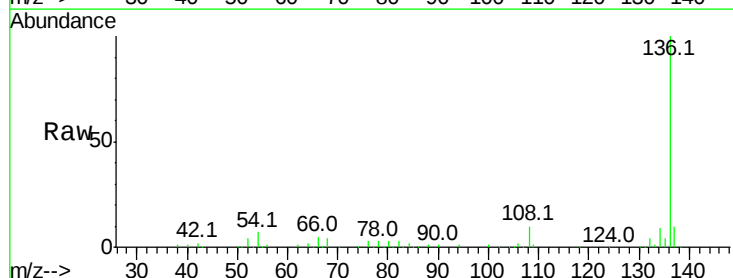
Ion Ratio Lower Upper

136 100

137 10.5 8.9 13.3

54 7.3 6.6 9.8

68 4.4 5.0 7.4#





#23

Nitrobenzene-d5

Concen: 7.791 ng

RT: 7.42 min Scan# 906

Delta R.T. -0.01 min

Lab File: BF100947.D

Acq: 28 Nov 2017 21:14

Instrument :

BNA_F

ClientSampleId :

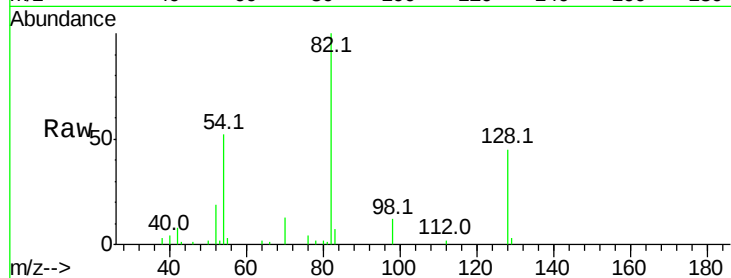
Tot Ion: 82 Resp: 23561

Ion Ratio Lower Upper

82 100

128 44.8 36.1 54.1

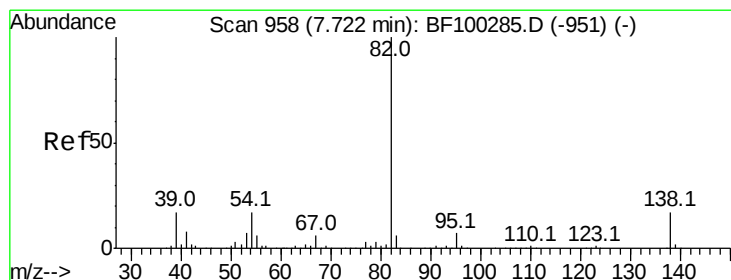
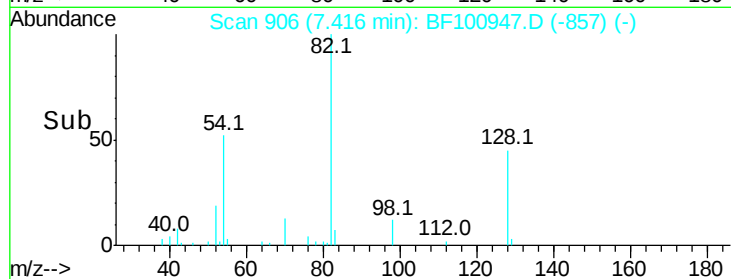
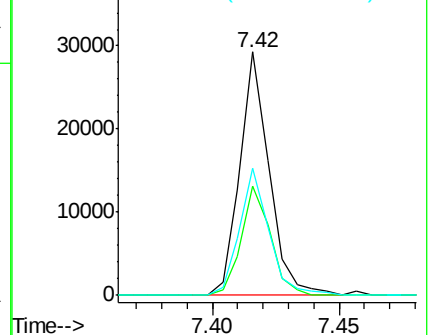
54 52.2 41.4 62.2



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: 3.707 ng

RT: 7.42 min Scan# 906

Delta R.T. -0.26 min

Lab File: BF100947.D

Acq: 28 Nov 2017 21:14

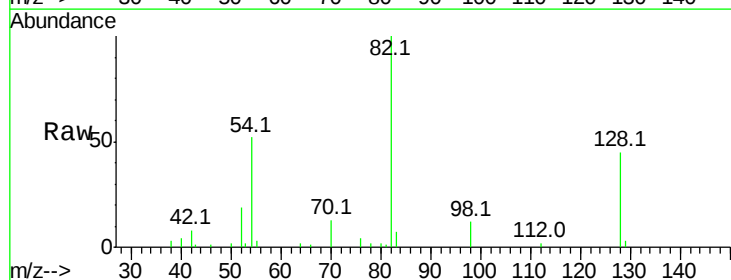
Tgt Ion: 82 Resp: 23560

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

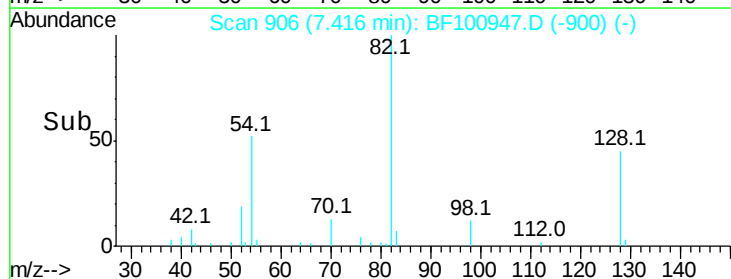
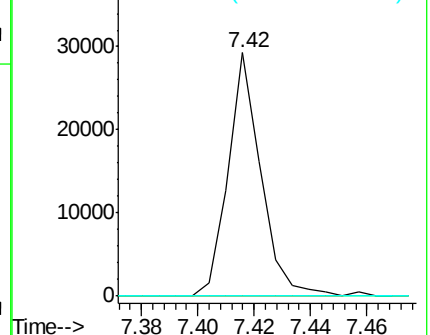
138 0.0 14.9 22.3#

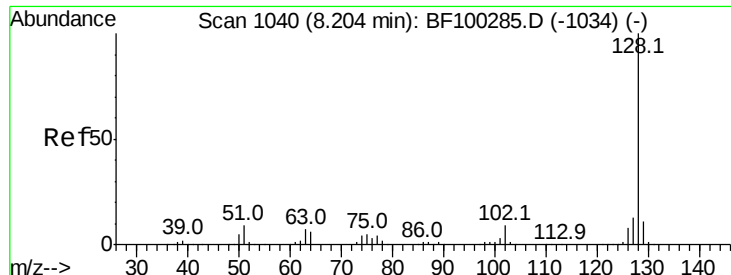


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1

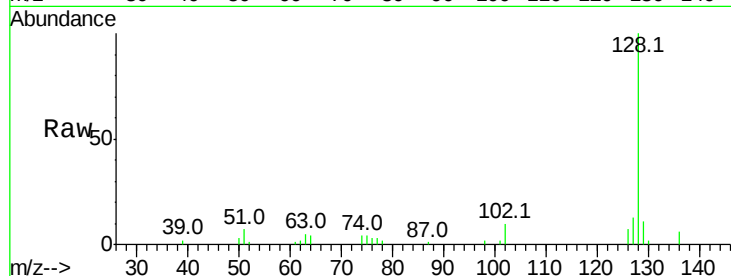




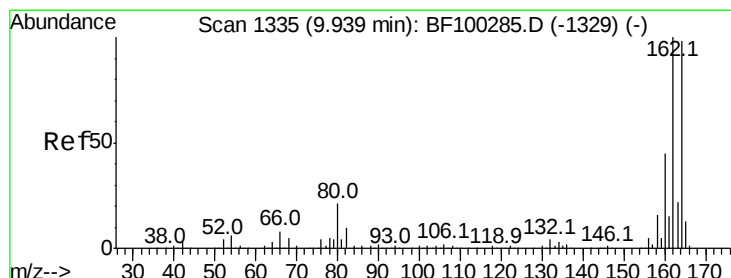
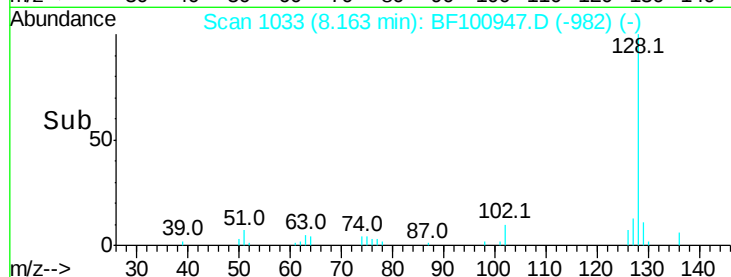
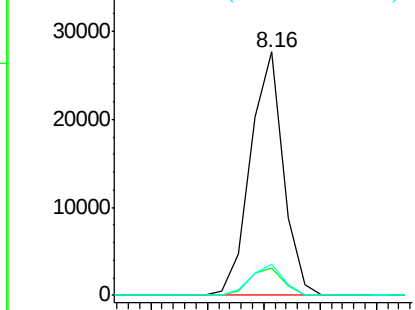
#31
Naphthalene
Concen: 2.320 ng
RT: 8.16 min Scan# 1033
Delta R.T. -0.00 min
Lab File: BF100947.D
Acq: 28 Nov 2017 21:14

Instrument :
BNA_F
ClientSampleId :

Tot Ion:128 Resp: 22340
Ion Ratio Lower Upper
128 100
129 11.2 8.8 13.2
127 13.0 10.9 16.3

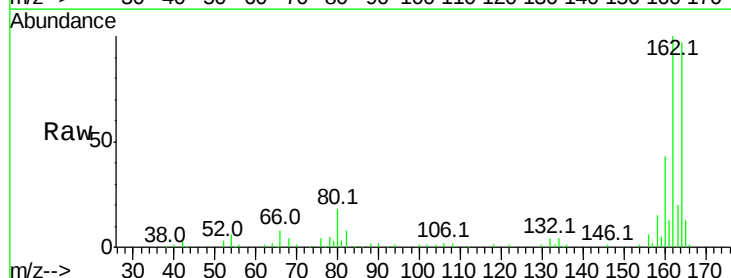


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

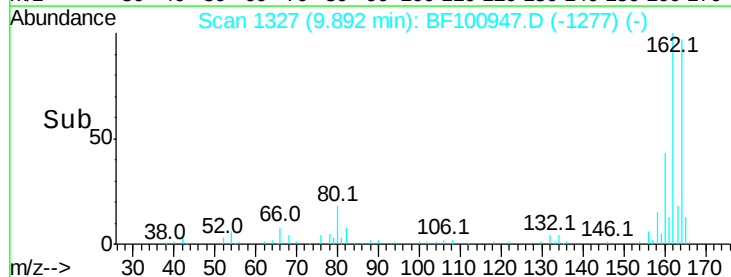
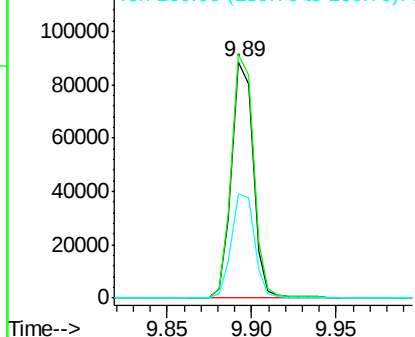


#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.89 min Scan# 1327
Delta R.T. -0.01 min
Lab File: BF100947.D
Acq: 28 Nov 2017 21:14

Tgt Ion:164 Resp: 79517
Ion Ratio Lower Upper
164 100
162 103.0 86.1 129.1
160 43.8 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

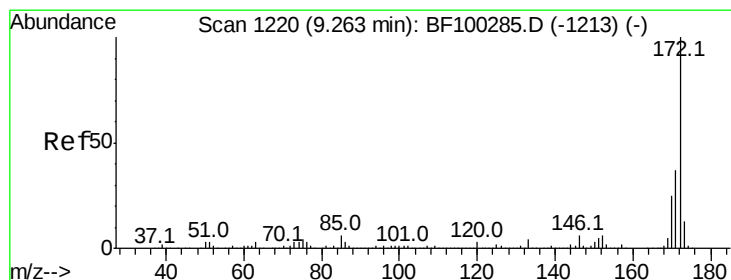
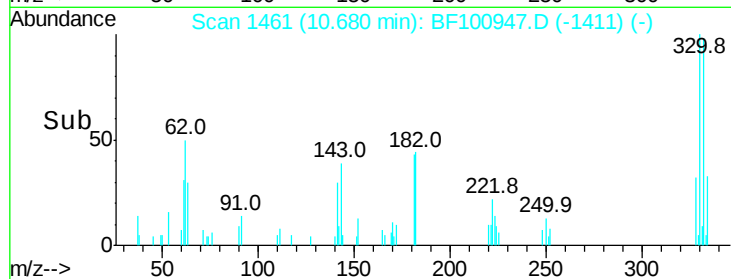
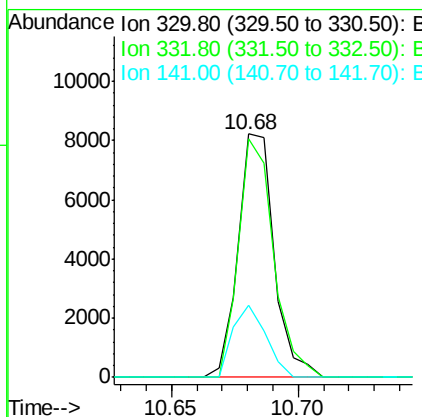
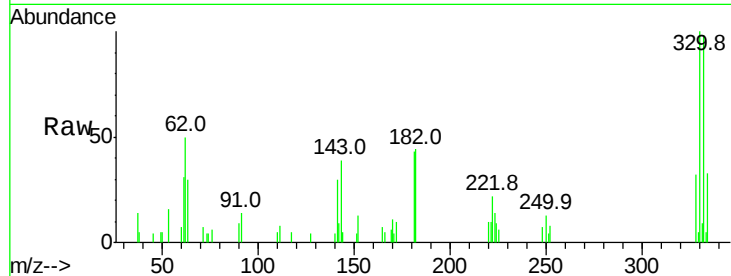




#41
 2,4,6-Tribromophenol
 Concen: 10.040 ng
 RT: 10.68 min Scan# 1461
 Delta R.T. -0.01 min
 Lab File: BF100947.D
 Acq: 28 Nov 2017 21:14

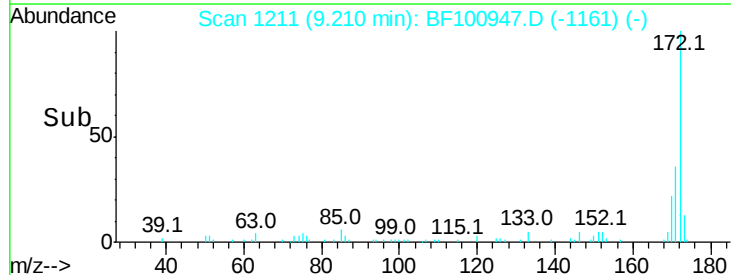
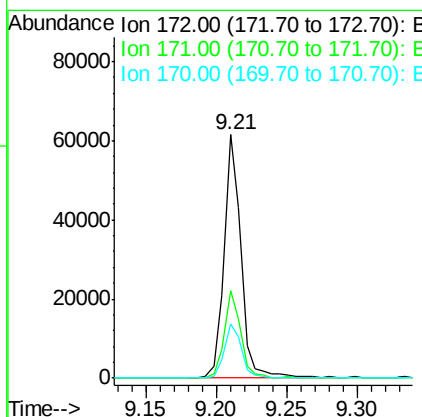
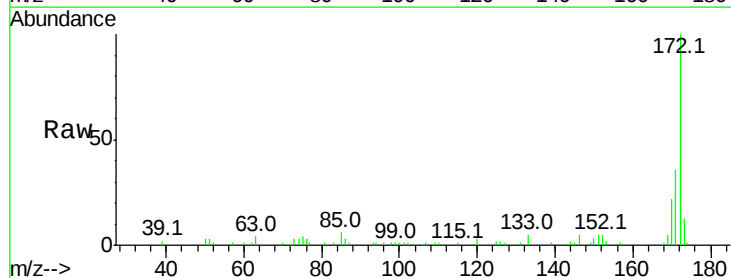
Instrument :
 BNA_F
 ClientSampleId :

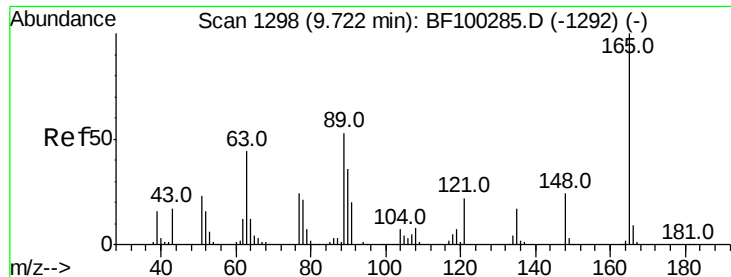
Tot Ion	Ratio	Lower	Upper
330	100		
332	95.3	77.0	115.6
141	27.0	29.9	44.9#



#44
 2-Fluorobiphenyl
 Concen: 9.852 ng
 RT: 9.21 min Scan# 1211
 Delta R.T. -0.01 min
 Lab File: BF100947.D
 Acq: 28 Nov 2017 21:14

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.9	29.7	44.5
170	22.2	19.6	29.4

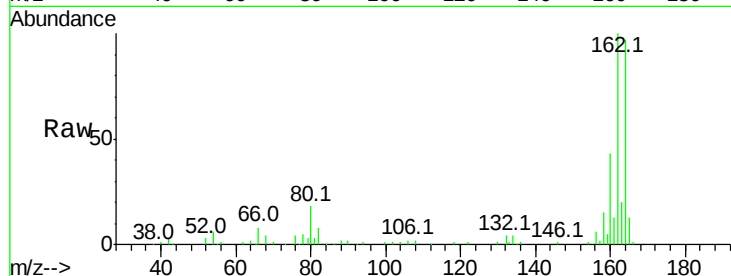




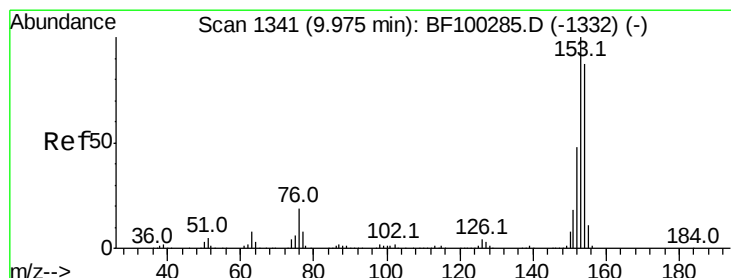
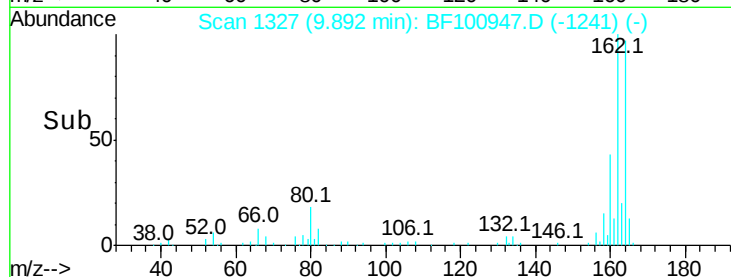
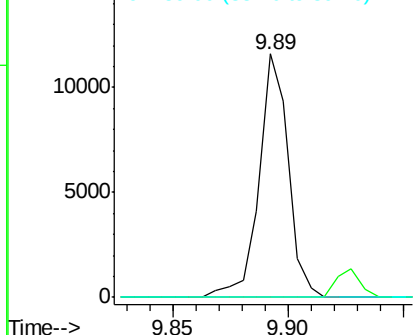
#50
2,6-Dinitrotoluene
Concen: 8.522 ng
RT: 9.89 min Scan# 1327
Delta R.T. 0.21 min
Lab File: BF100947.D
Acq: 28 Nov 2017 21:14

Instrument :
BNA_F
ClientSampleId :

Tot Ion:165 Resp: 10241
Ion Ratio Lower Upper
165 100
63 0.0 44.7 67.1#
89 0.0 44.0 66.0#

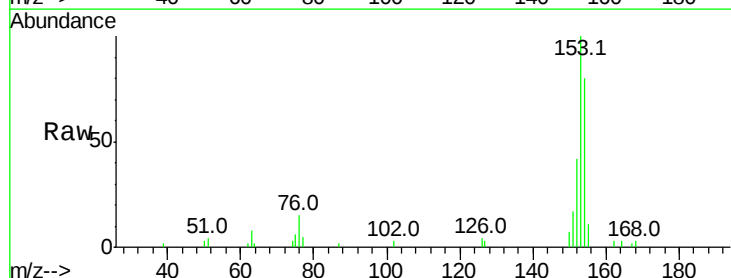


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1

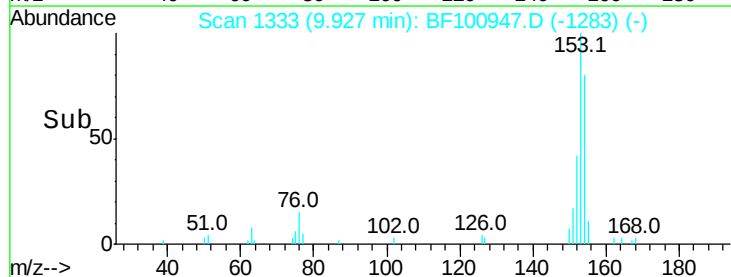
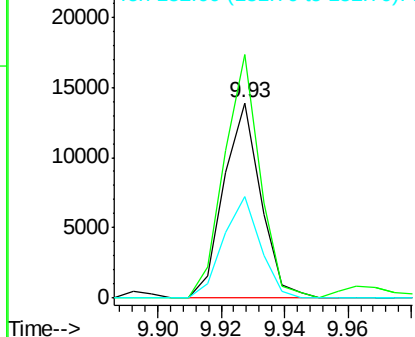


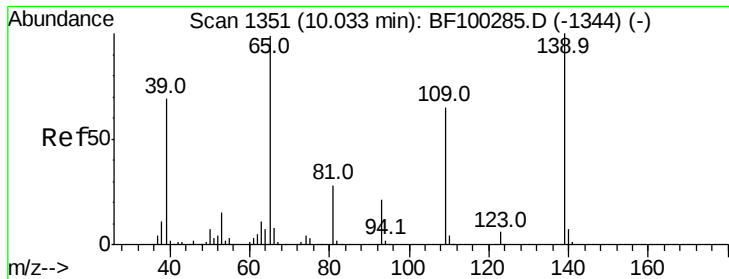
#51
Acenaphthene
Concen: 2.215 ng
RT: 9.93 min Scan# 1333
Delta R.T. -0.01 min
Lab File: BF100947.D
Acq: 28 Nov 2017 21:14

Tgt Ion:154 Resp: 11138
Ion Ratio Lower Upper
154 100
153 124.7 91.2 136.8
152 52.0 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





#55

4-Nitrophenol

Concen: 3.214 ng

RT: 10.10 min Scan# 1362

Delta R.T. 0.09 min

Lab File: BF100947.D

Acq: 28 Nov 2017 21:14

Instrument :

BNA_F

ClientSampled :

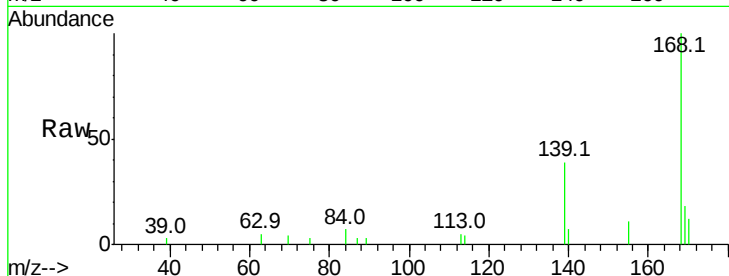
Tot Ion:139 Resp: 3703

Ion Ratio Lower Upper

139 100

109 0.0 48.4 88.4#

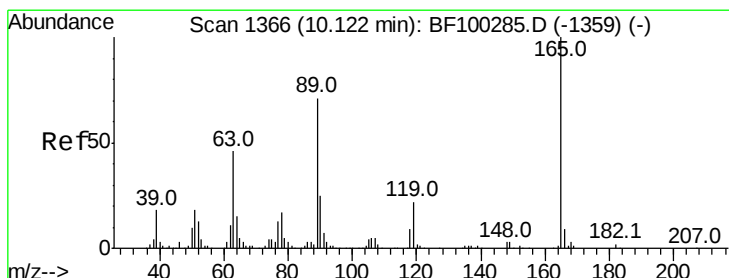
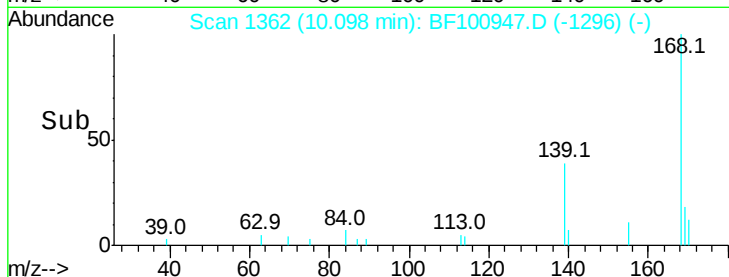
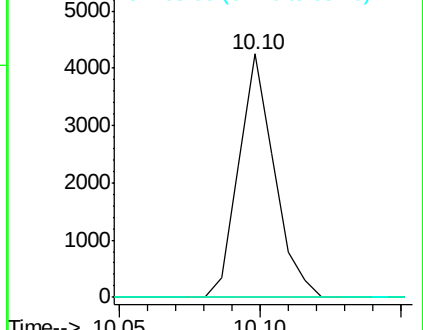
65 0.0 72.6 112.6#



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: 6.755 ng

RT: 9.89 min Scan# 1327

Delta R.T. -0.19 min

Lab File: BF100947.D

Acq: 28 Nov 2017 21:14

Tgt Ion:165 Resp: 10241

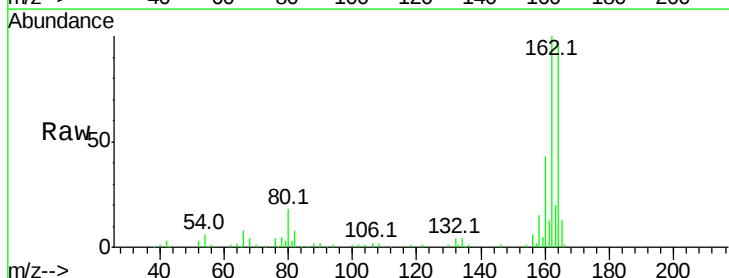
Ion Ratio Lower Upper

165 100

63 0.0 36.4 54.6#

89 0.0 57.8 86.6#

182 0.0 1.6 2.4#

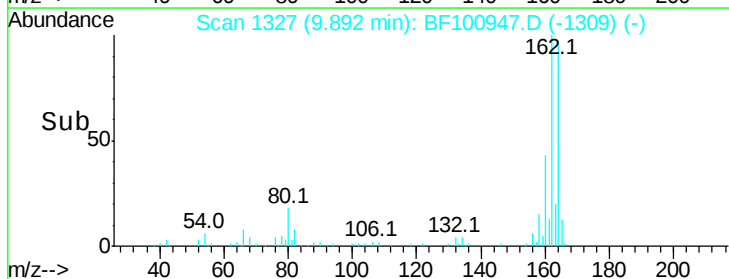
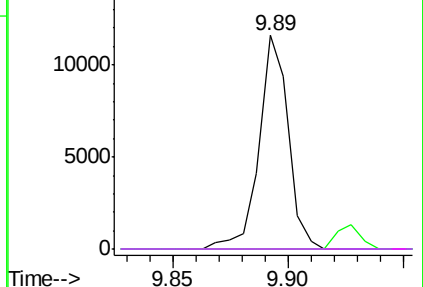


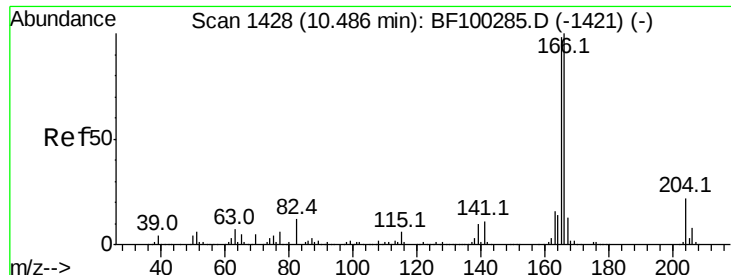
Abundance Ion 165.00 (164.70 to 165.70): E

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

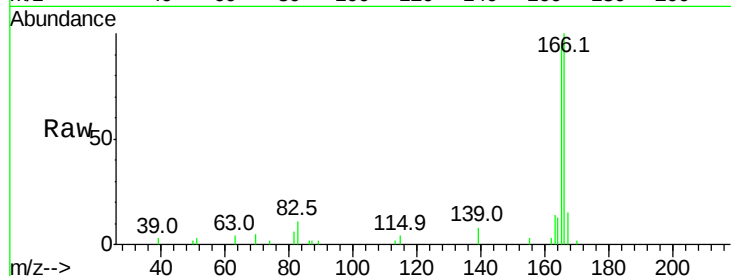




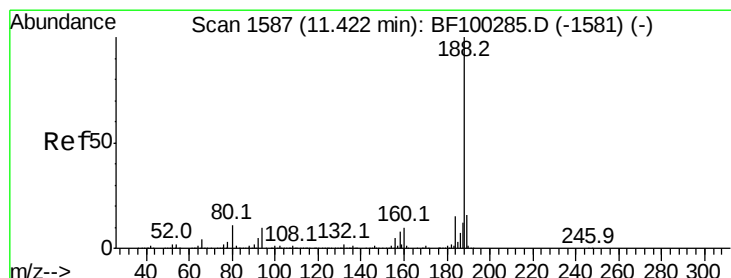
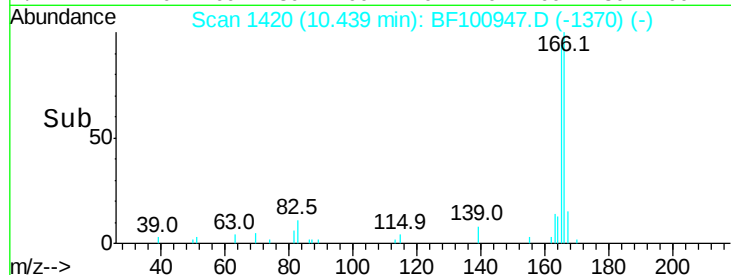
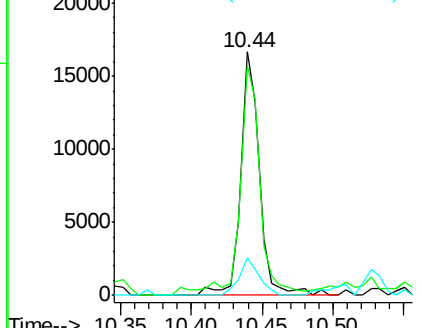
#57
 Fluorene
 Concen: 2.976 ng
 RT: 10.44 min Scan# 1420
 Delta R.T. -0.01 min
 Lab File: BF100947.D
 Acq: 28 Nov 2017 21:14

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:166 Resp: 15367
 Ion Ratio Lower Upper
 166 100
 165 94.3 79.8 119.8
 167 15.5 10.6 16.0

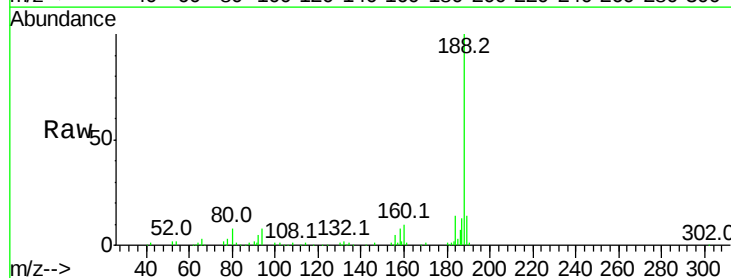


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

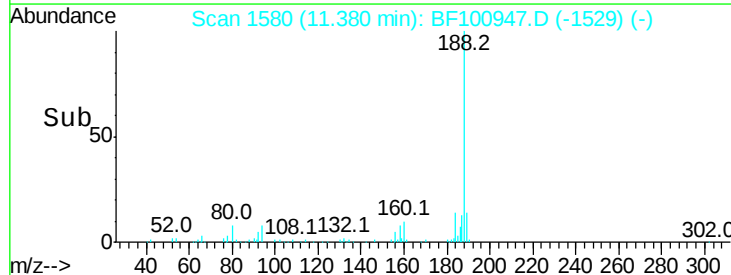
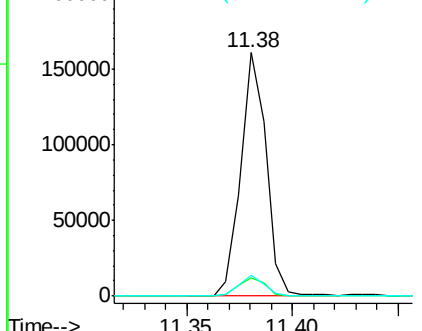


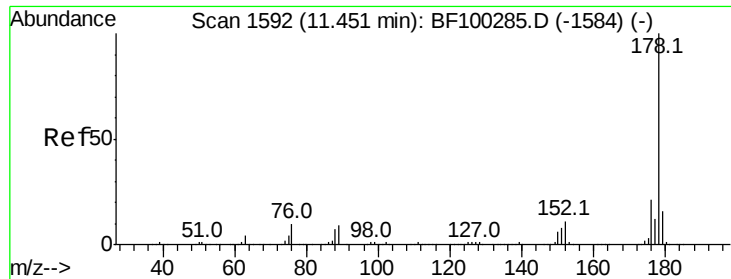
#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.38 min Scan# 1580
 Delta R.T. -0.00 min
 Lab File: BF100947.D
 Acq: 28 Nov 2017 21:14

Tgt Ion:188 Resp: 134137
 Ion Ratio Lower Upper
 188 100
 94 7.7 8.5 12.7#
 80 8.5 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

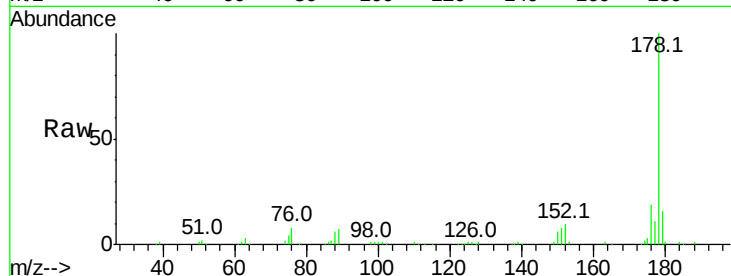




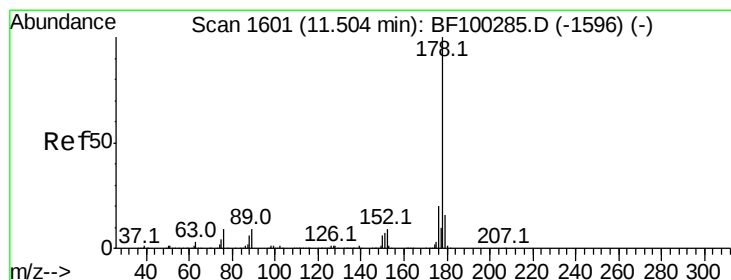
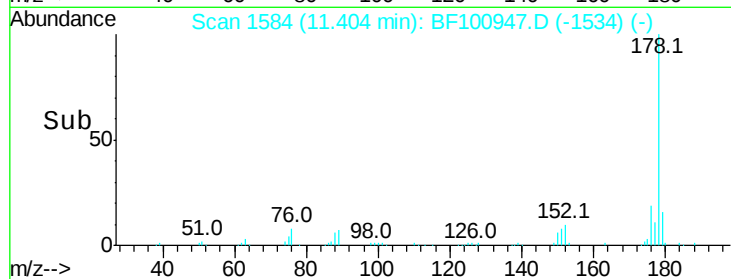
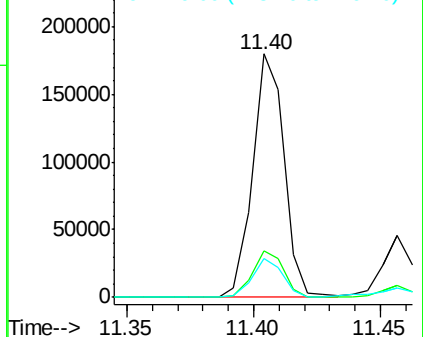
#70
Phenanthrene
Concen: 22.132 ng
RT: 11.40 min Scan# 1584
Delta R.T. -0.01 min
Lab File: BF100947.D
Acq: 28 Nov 2017 21:14

Instrument :
BNA_F
ClientSampled :

Tot Ion:178 Resp: 156310
Ion Ratio Lower Upper
178 100
176 19.0 15.8 23.8
179 15.8 13.0 19.6

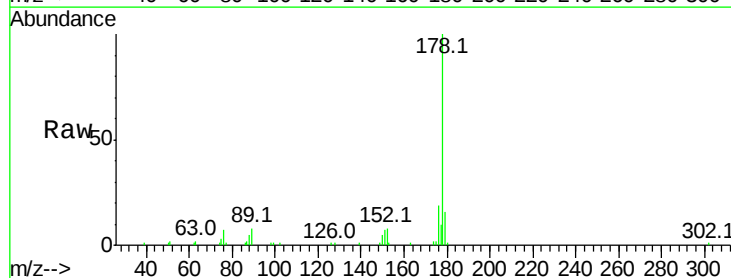


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

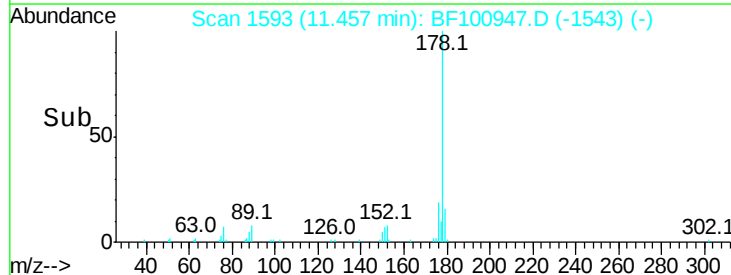
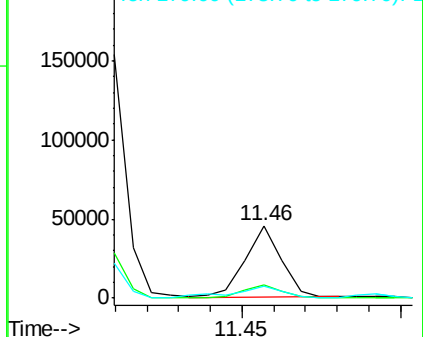


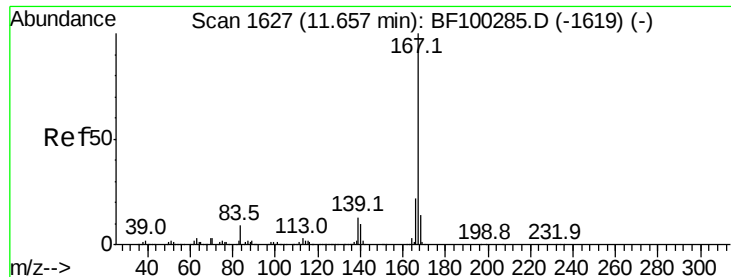
#71
Anthracene
Concen: 5.003 ng
RT: 11.46 min Scan# 1593
Delta R.T. -0.01 min
Lab File: BF100947.D
Acq: 28 Nov 2017 21:14

Tgt Ion:178 Resp: 35848
Ion Ratio Lower Upper
178 100
176 19.1 15.4 23.2
179 15.7 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

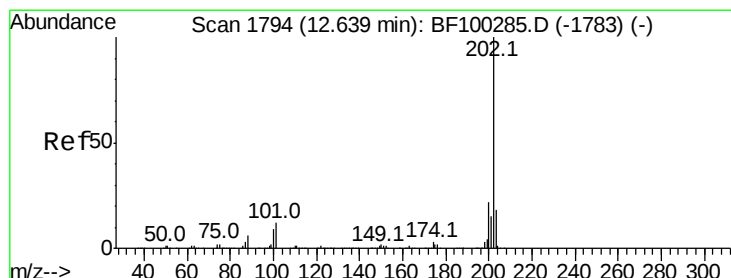
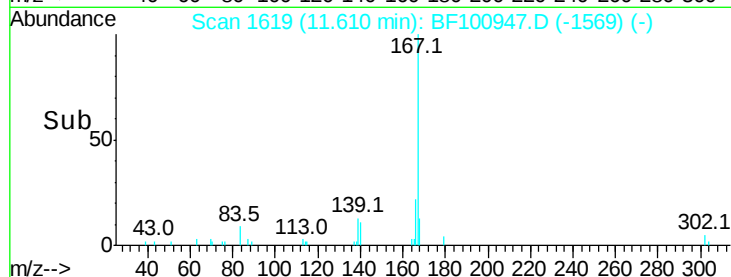
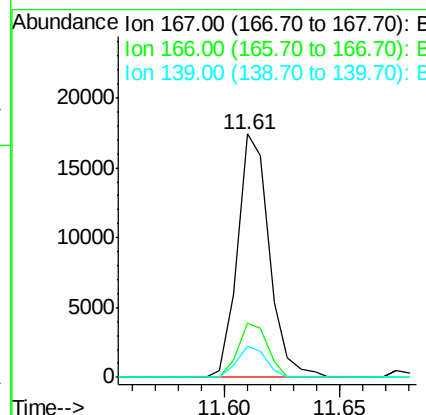
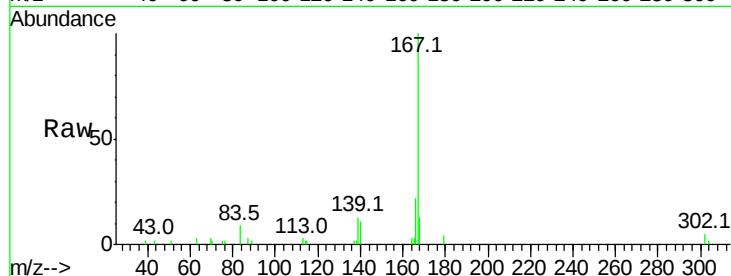




#72
 Carbazole
 Concen: 2.532 ng
 RT: 11.61 min Scan# 1619
 Delta R.T. -0.01 min
 Lab File: BF100947.D
 Acq: 28 Nov 2017 21:14

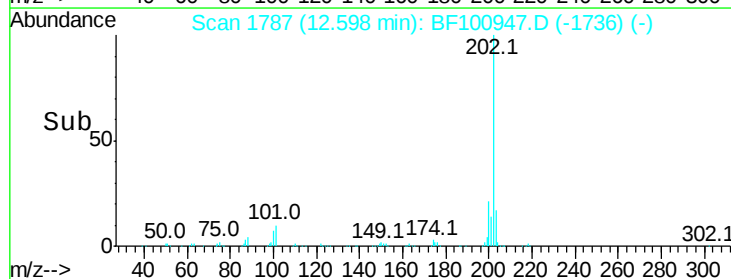
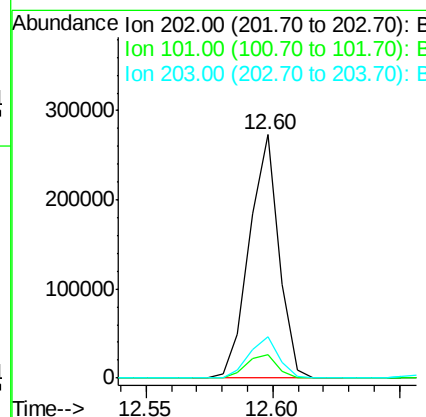
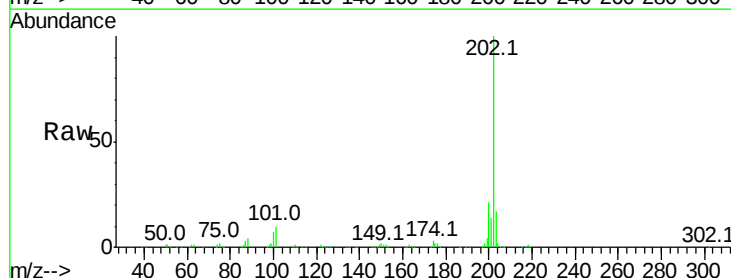
Instrument :
 BNA_F
 ClientSampleId :

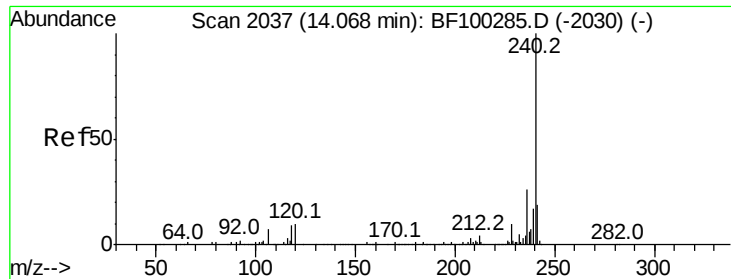
Tot Ion:167 Resp: 16738
 Ion Ratio Lower Upper
 167 100
 166 22.1 17.6 26.4
 139 13.0 10.9 16.3



#74
 Fluoranthene
 Concen: 29.625 ng
 RT: 12.60 min Scan# 1787
 Delta R.T. -0.00 min
 Lab File: BF100947.D
 Acq: 28 Nov 2017 21:14

Tgt Ion:202 Resp: 221738
 Ion Ratio Lower Upper
 202 100
 101 9.9 0.0 34.1
 203 17.0 0.0 38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.02 min Scan# 2029

Delta R.T. -0.01 min

Lab File: BF100947.D

Acq: 28 Nov 2017 21:14

Instrument :

BNA_F

ClientSampleId :

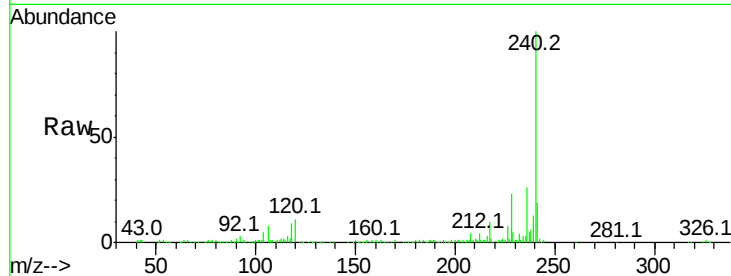
Tot Ion:240 Resp: 142846

Ion Ratio Lower Upper

240 100

120 10.7 9.5 14.3

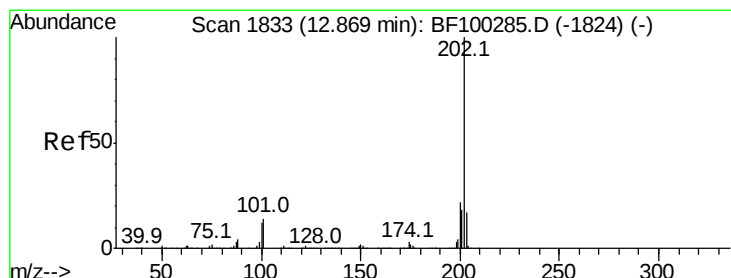
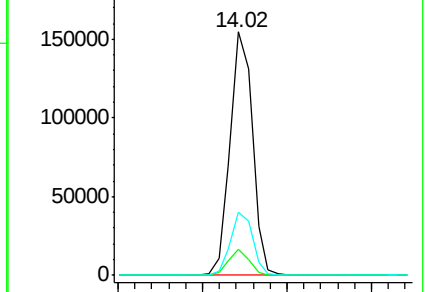
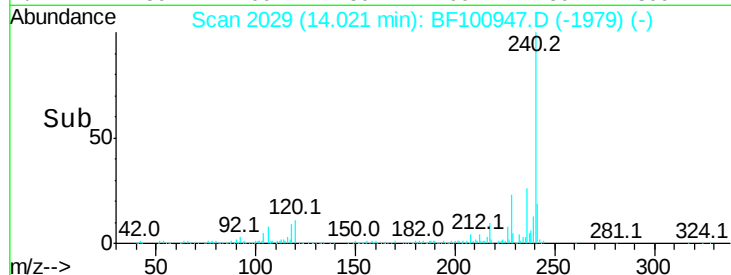
236 25.7 20.7 31.1



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: 18.860 ng

RT: 12.83 min Scan# 1826

Delta R.T. -0.00 min

Lab File: BF100947.D

Acq: 28 Nov 2017 21:14

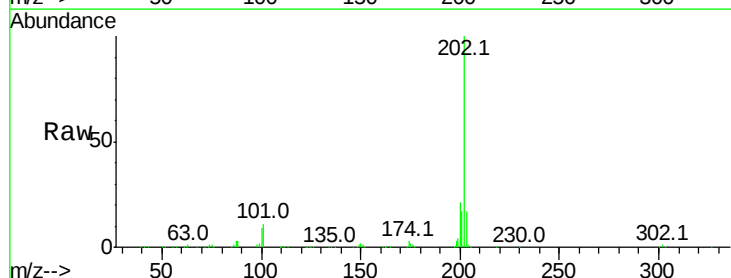
Tgt Ion:202 Resp: 192045

Ion Ratio Lower Upper

202 100

200 20.7 17.4 26.2

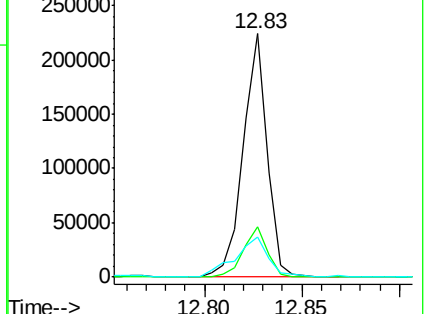
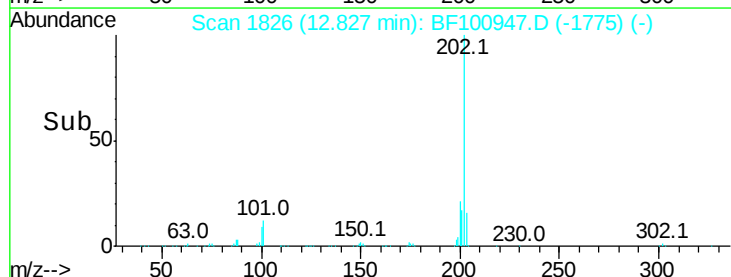
203 16.6 14.3 21.5

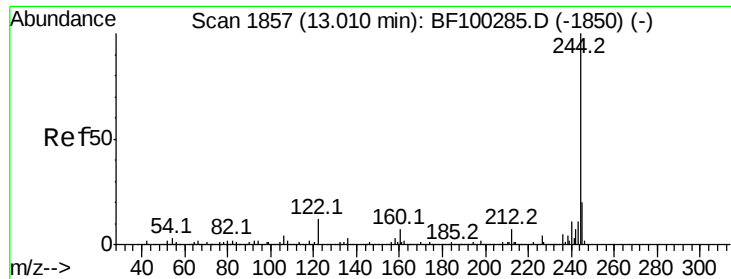


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

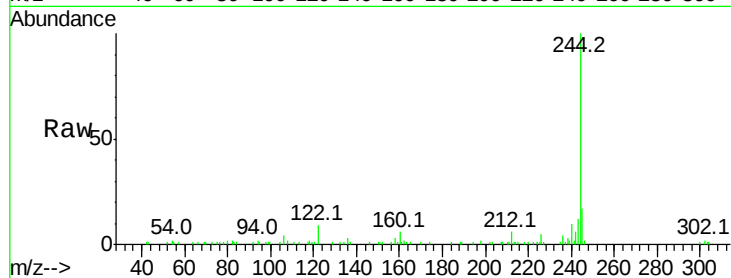




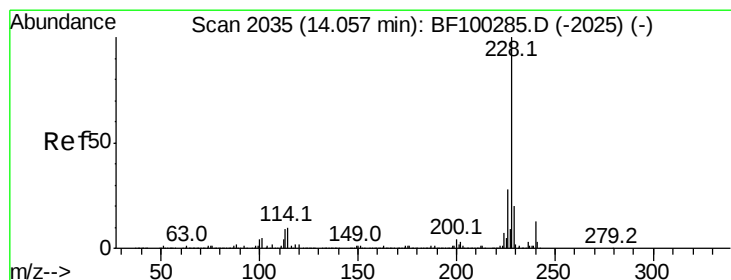
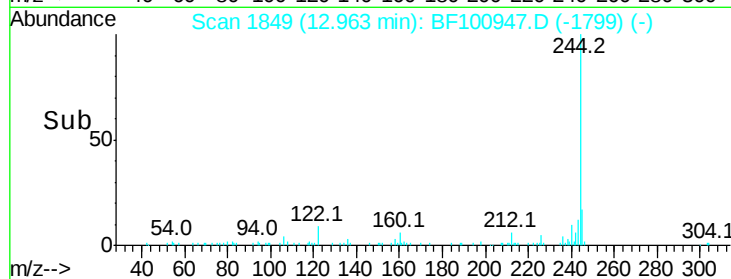
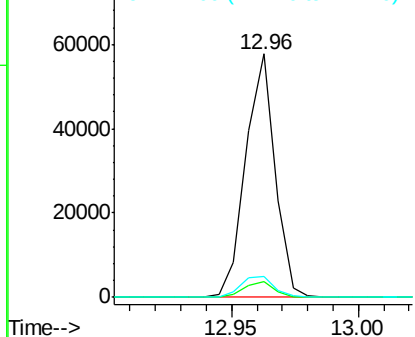
#78
 Terphenyl-d14
 Concen: 7.480 ng
 RT: 12.96 min Scan# 1849
 Delta R.T. -0.01 min
 Lab File: BF100947.D
 Acq: 28 Nov 2017 21:14

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.4	8.0
122	8.6	11.0	16.4#

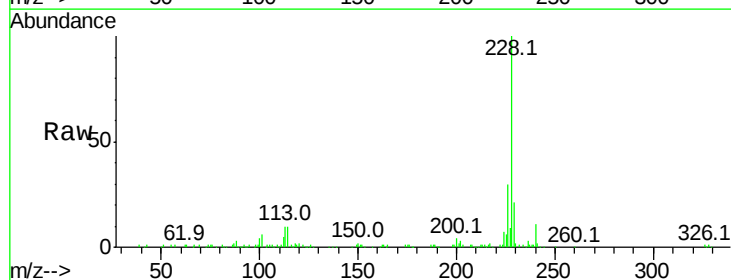


Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E

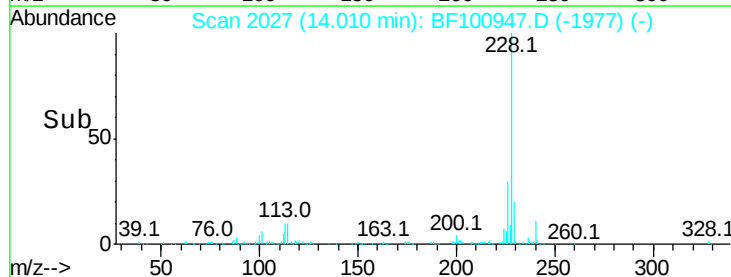
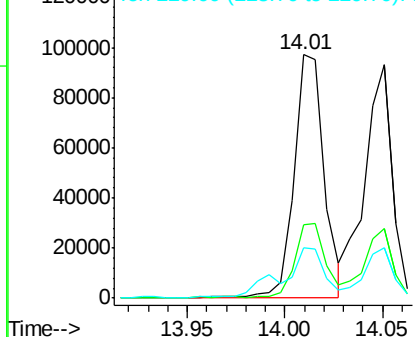


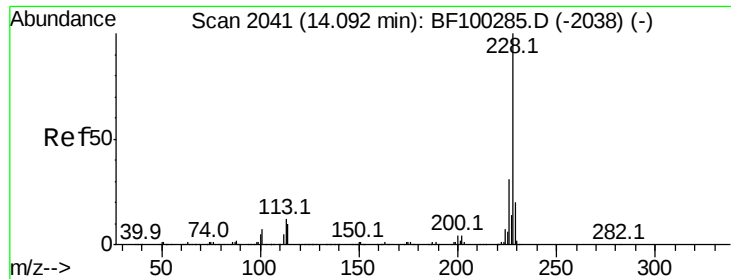
#80
 Benzo(a)anthracene
 Concen: 12.022 ng
 RT: 14.01 min Scan# 2027
 Delta R.T. -0.01 min
 Lab File: BF100947.D
 Acq: 28 Nov 2017 21:14

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.9	22.6	33.8
229	20.6	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

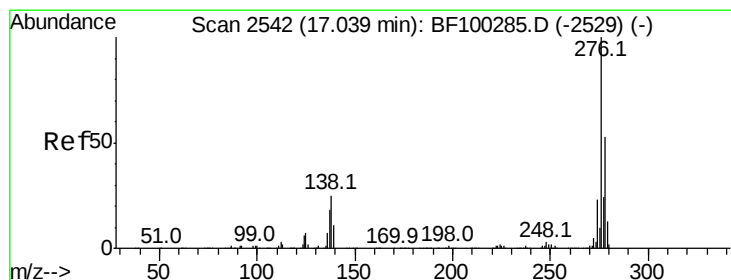
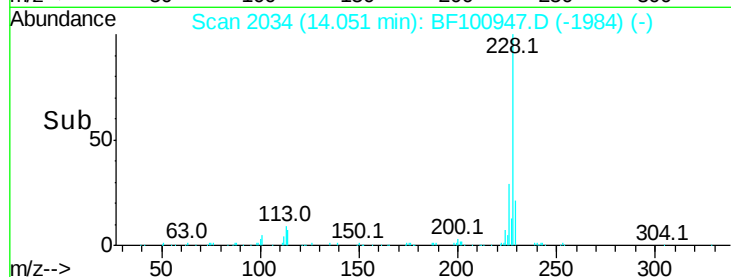
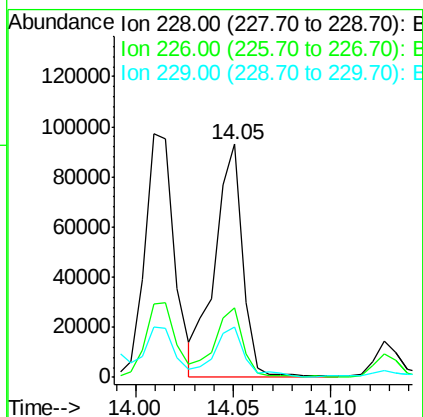
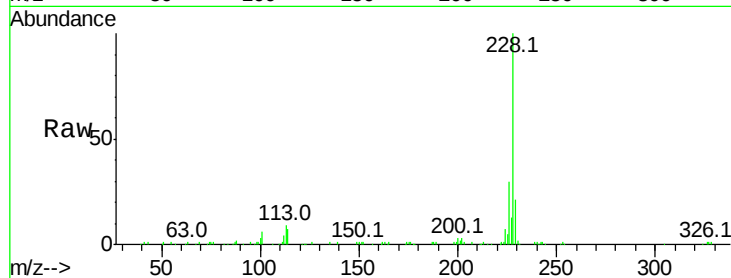




#82
Chrysene
Concen: 11.046 ng
RT: 14.05 min Scan# 2034
Delta R.T. -0.01 min
Lab File: BF100947.D
Acq: 28 Nov 2017 21:14

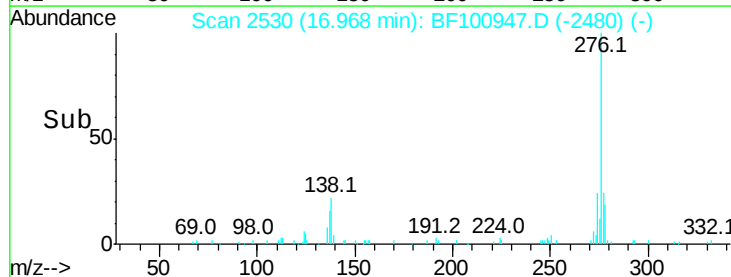
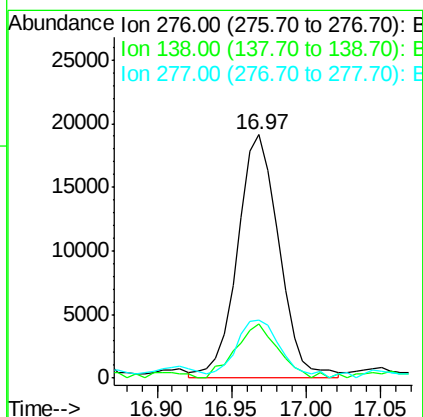
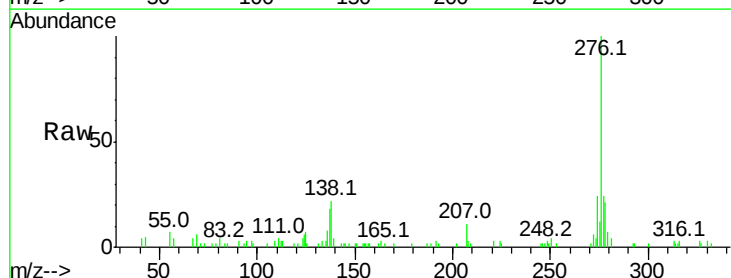
Instrument :
BNA_F
ClientSampleId :

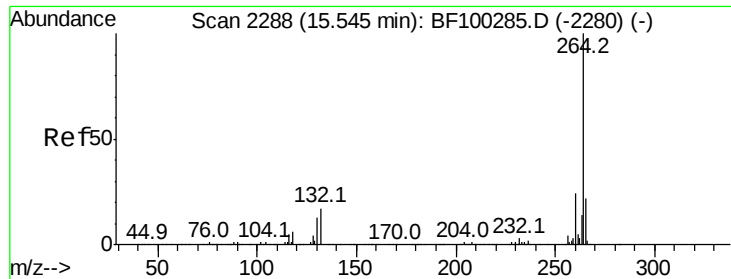
Tot Ion:228 Resp: 92013
Ion Ratio Lower Upper
228 100
226 29.8 25.0 37.6
229 21.5 16.2 24.4



#85
Indeno(1,2,3-cd)pyrene
Concen: 5.509 ng
RT: 16.97 min Scan# 2530
Delta R.T. -0.01 min
Lab File: BF100947.D
Acq: 28 Nov 2017 21:14

Tgt Ion:276 Resp: 37120
Ion Ratio Lower Upper
276 100
138 22.3 25.0 37.6#
277 25.6 20.1 30.1



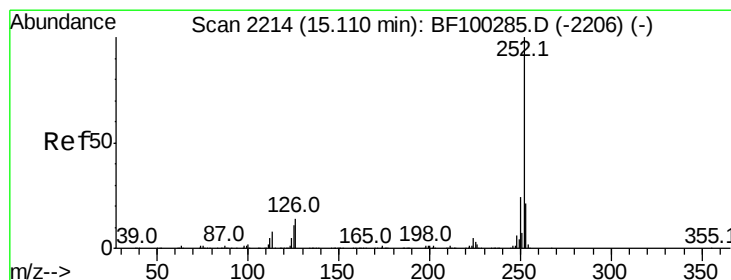
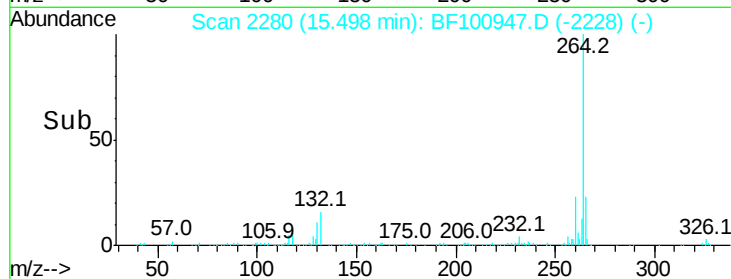
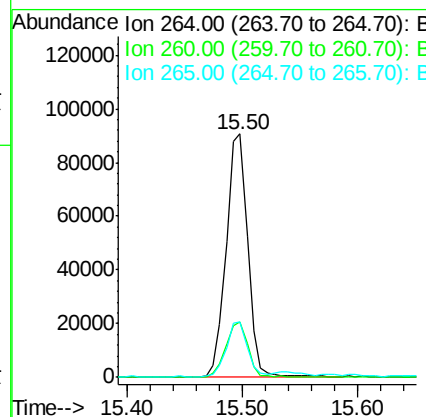
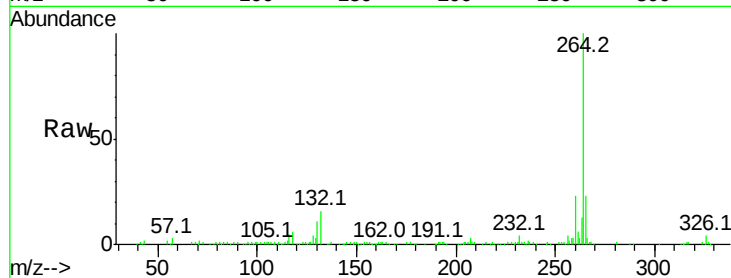


#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.50 min Scan# 2280
Delta R.T. 0.01 min
Lab File: BF100947.D
Acq: 28 Nov 2017 21:14

Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 118514

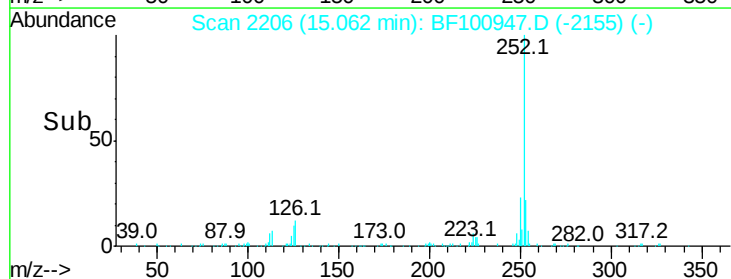
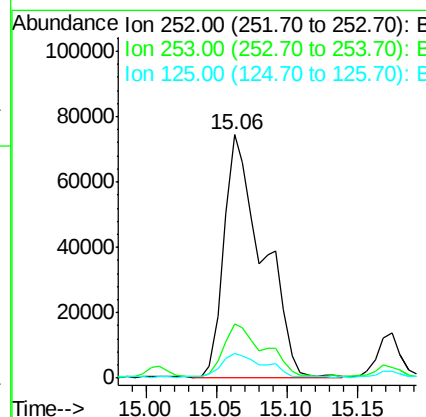
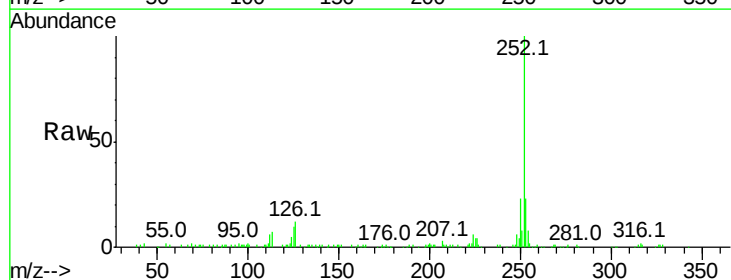
Ion	Ratio	Lower	Upper
264	100		
260	23.0	19.2	28.8
265	22.9	17.5	26.3

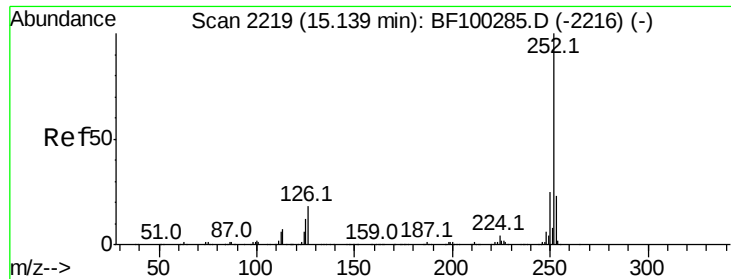


#87
Benzo(b)fluoranthene
Concen: 20.453 ng
RT: 15.06 min Scan# 2206
Delta R.T. -0.00 min
Lab File: BF100947.D
Acq: 28 Nov 2017 21:14

Tgt Ion:252 Resp: 143610

Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.0	25.6
125	10.1	9.0	13.6





#88

Benzo(k)fluoranthene

Concen: 2.624 ng

RT: 15.17 min Scan# 2225

Delta R.T. 0.08 min

Lab File: BF100947.D

Acq: 28 Nov 2017 21:14

Instrument :

BNA_F

ClientSampled :

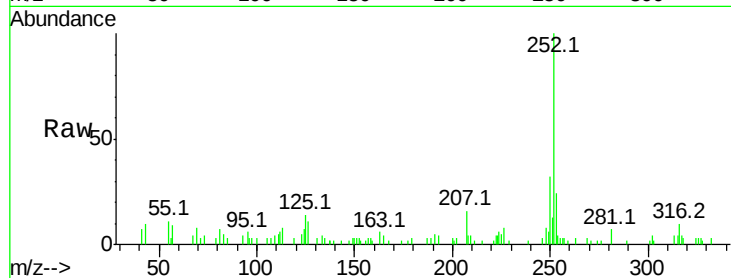
Tot Ion:252 Resp: 17409

Ion Ratio Lower Upper

252 100

253 23.6 17.9 26.9

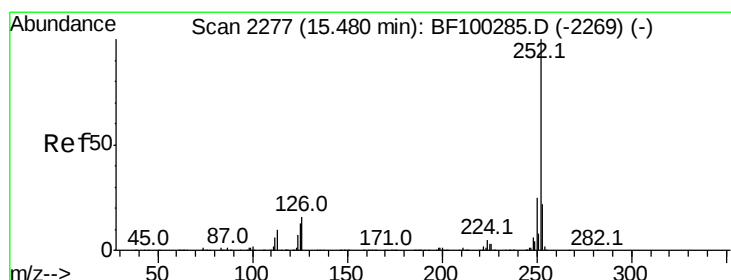
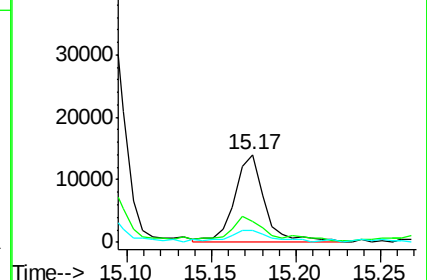
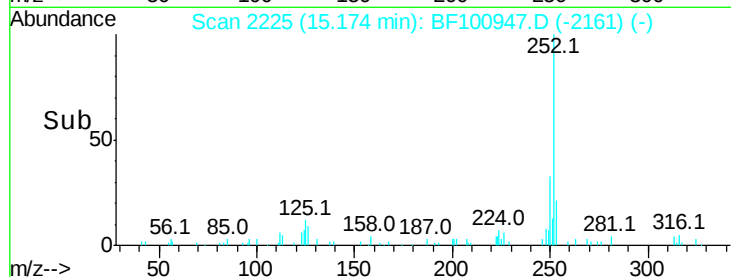
125 14.0 10.2 15.2



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89

Benzo(a)pyrene

Concen: 11.172 ng

RT: 15.43 min Scan# 2269

Delta R.T. -0.00 min

Lab File: BF100947.D

Acq: 28 Nov 2017 21:14

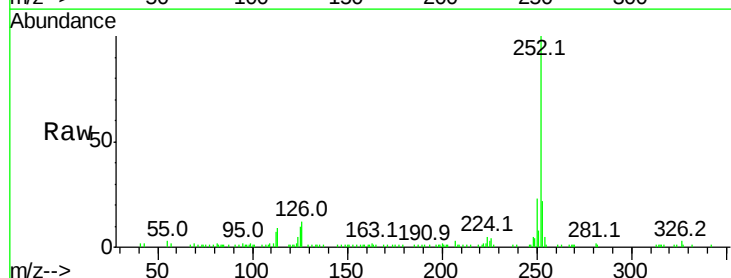
Tgt Ion:252 Resp: 69541

Ion Ratio Lower Upper

252 100

253 22.3 17.1 25.7

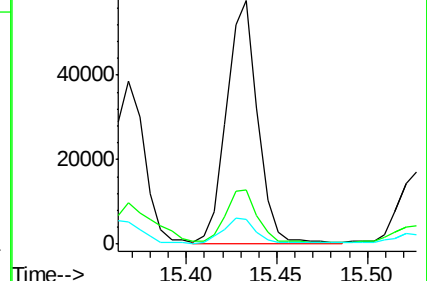
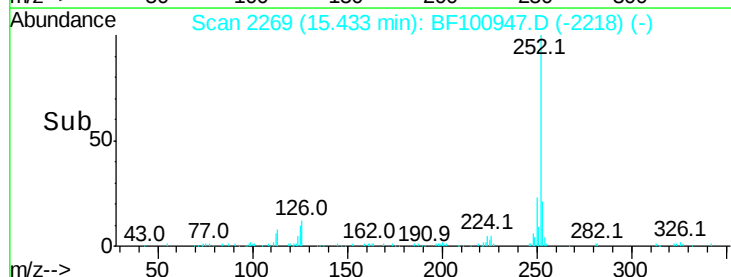
125 10.3 9.8 14.6

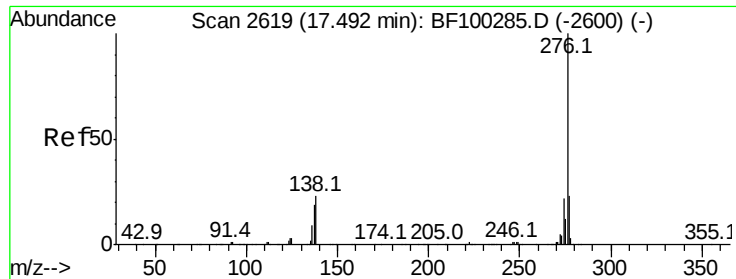


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#91
 Benzo(a,h,i)perylene
 Concen: 6.997 ng
 RT: 17.42 min Scan# 2606
 Delta R.T. -0.01 min
 Lab File: BF100947.D
 Acq: 28 Nov 2017 21:14

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.1	17.9	26.9
138	20.8	21.8	32.8

