

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120517\
 Data File : BF101121.D
 Acq On : 5 Dec 2017 13:48
 Operator : SJ/JU
 Sample : I6734-03
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

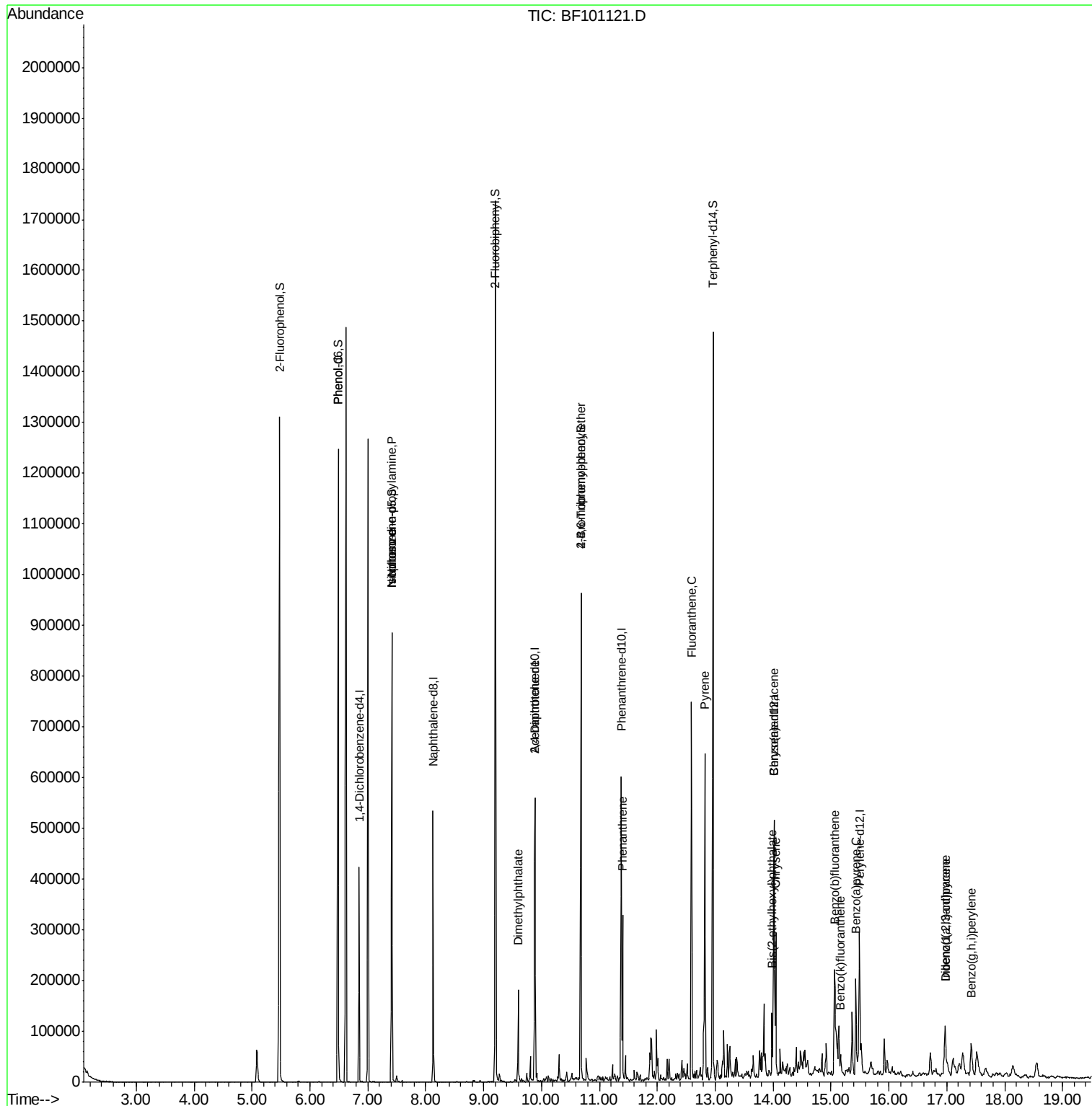
Quant Time: Dec 05 15:11:42 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Dec 04 13:07:49 2017
 Response via : Initial Calibration

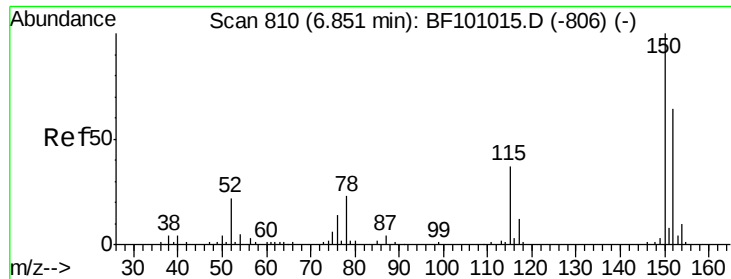
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	59520	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	229316	20.00	ng	0.00
38) Acenaphthene-d10	9.89	164	107637	20.00	ng	0.00
63) Phenanthrene-d10	11.37	188	204505	20.00	ng	0.00
75) Chrysene-d12	14.02	240	138391	20.00	ng	0.00
86) Perylene-d12	15.49	264	125581	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	370918	102.98	ng	0.01
7) Phenol-d6	6.49	99	448642	102.59	ng	0.00
23) Nitrobenzene-d5	7.42	82	283718	73.80	ng	0.00
41) 2,4,6-Tribromophenol	10.68	330	125882	97.35	ng	0.00
44) 2-Fluorobiphenyl	9.20	172	559924	71.17	ng	0.00
78) Terphenyl-d14	12.96	244	507845	80.26	ng	0.00
Target Compounds						
10) Phenol	6.49	94	15386	3.16	ng	# 60
19) n-Nitroso-di-n-propylamine	7.42	70	38094	12.93	ng	# 79
25) Isophorone	7.42	82	283715	43.21	ng	# 64
49) Dimethylphthalate	9.60	163	75049	8.65	ng	99
56) 2,4-Dinitrotoluene	9.89	165	14104	5.76	ng	# 21
66) 4-Bromophenyl-phenylether	10.68	248	8309	3.63	ng	# 1
70) Phenanthrene	11.40	178	110846	9.84	ng	96
74) Fluoranthene	12.59	202	276653	22.16	ng	95
77) Pyrene	12.82	202	252562	26.45	ng	99
80) Benzo(a)anthracene	14.01	228	103791	11.88	ng	98
82) Chrysene	14.04	228	106783	13.16	ng	96
83) Bis(2-ethylhexyl)phthalate	13.98	149	31134	5.19	ng	100
85) Indeno(1,2,3-cd)pyrene	16.97	276	58273	8.08	ng	# 88
87) Benzo(b)fluoranthene	15.06	252	156524	20.81	ng	97
88) Benzo(k)fluoranthene	15.17	252	18252	2.46	ng	97
89) Benzo(a)pyrene	15.43	252	84792	12.40	ng	98
90) Dibenzo(a,h)anthracene	16.98	278	14380	2.39	ng	96
91) Benzo(g,h,i)perylene	17.42	276	57069	10.04	ng	# 93

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

```
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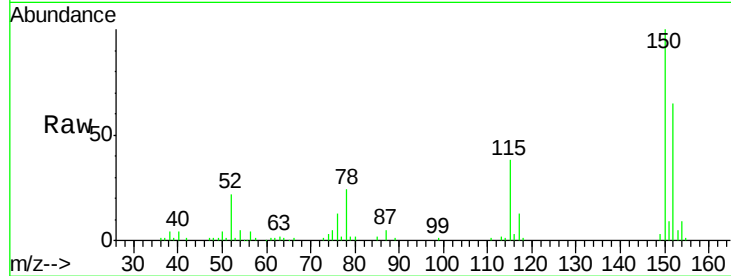


#1

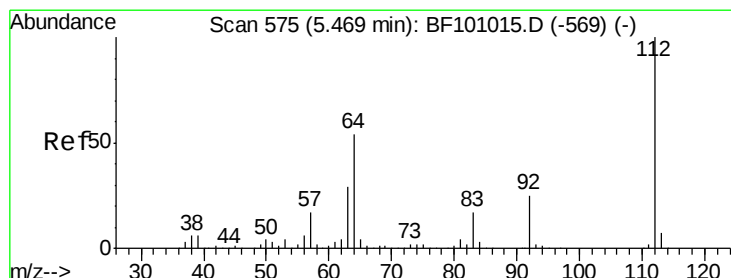
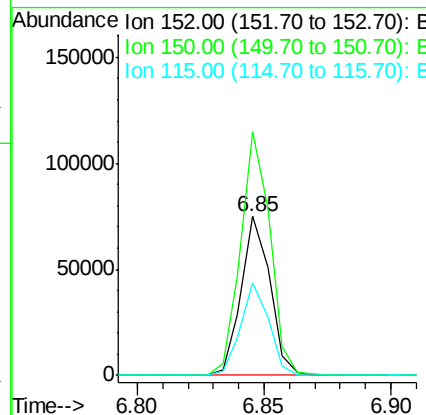
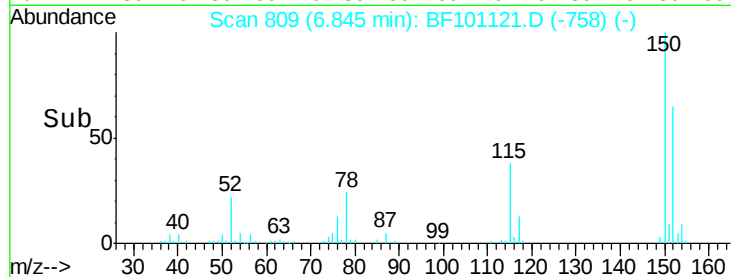
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.85 min Scan# 809
Delta R.T. 0.00 min
Lab File: BF101121.D
Acq: 5 Dec 2017 13:48

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 59520
Ion Ratio Lower Upper
152 100
150 153.2 124.6 186.8
115 58.7 50.1 75.1



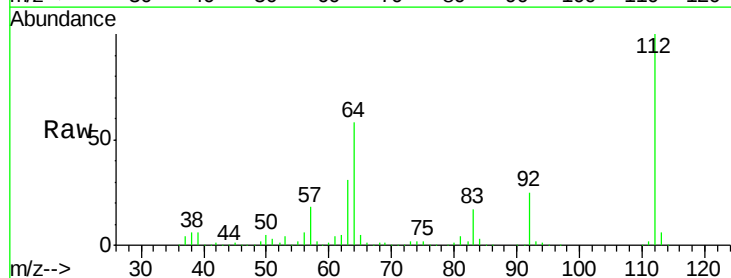
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



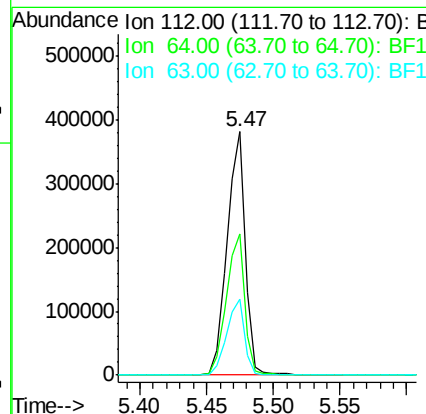
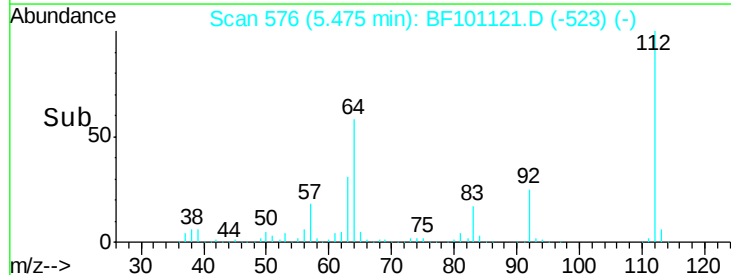
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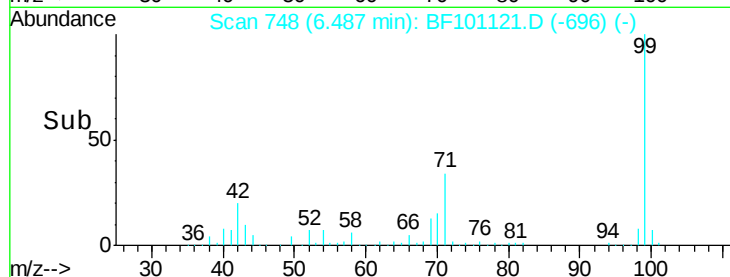
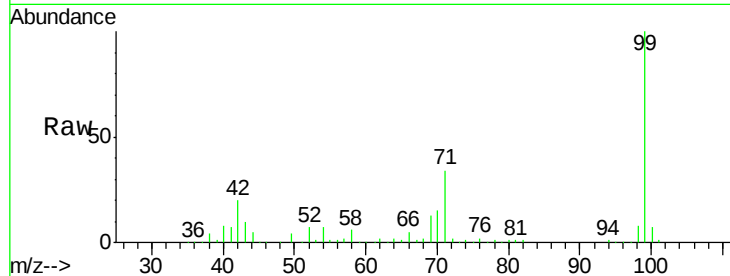
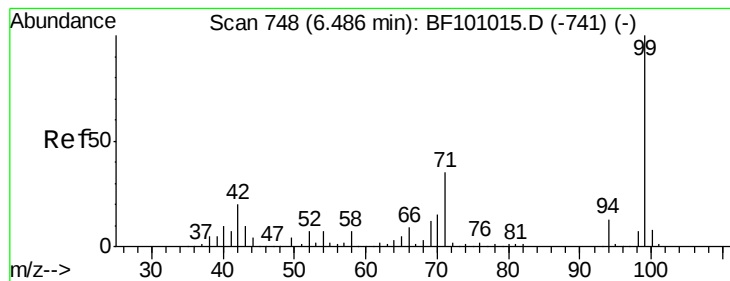
2-Fluorophenol
Concen: 102.98 ng
RT: 5.47 min Scan# 576
Delta R.T. 0.01 min
Lab File: BF101121.D
Acq: 5 Dec 2017 13:48

Tgt Ion:112 Resp: 370918
Ion Ratio Lower Upper
112 100
64 58.0 47.9 71.9
63 31.0 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: 102.59 ng

RT: 6.49 min Scan# 748

Delta R.T. 0.01 min

Lab File: BF101121.D

Acq: 5 Dec 2017 13:48

Instrument :

BNA_F

ClientSampled :

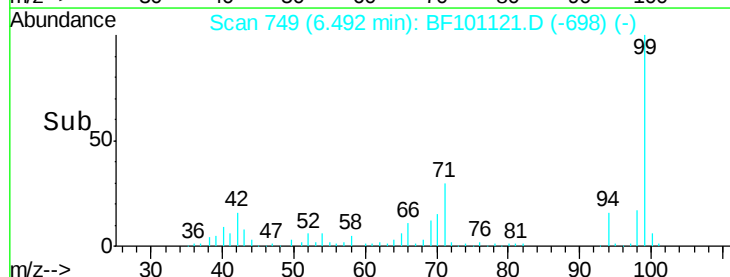
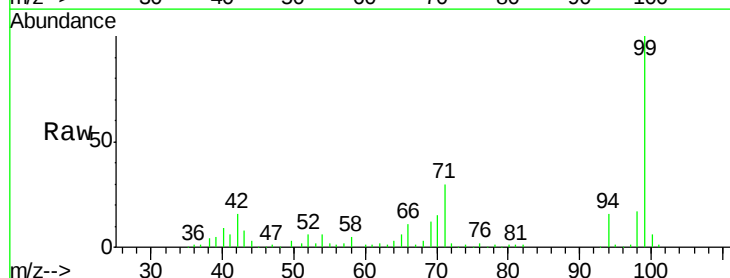
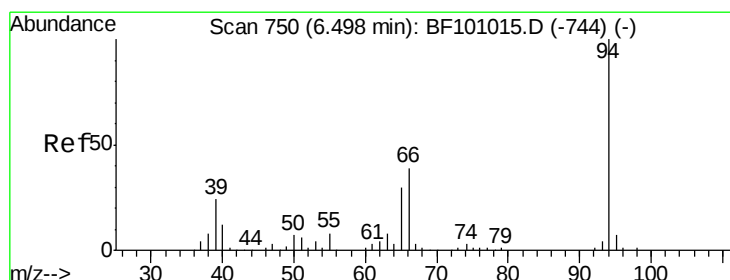
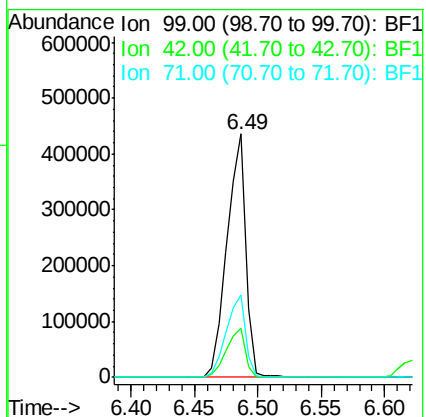
Tot Ion: 99 Resp: 448642

Ion Ratio Lower Upper

99 100

42 20.4 14.5 21.7

71 34.0 25.4 38.0



#10

Phenol

Concen: 3.16 ng

RT: 6.49 min Scan# 749

Delta R.T. 0.00 min

Lab File: BF101121.D

Acq: 5 Dec 2017 13:48

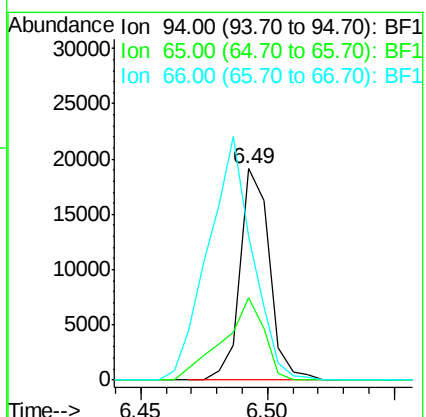
Tgt Ion: 94 Resp: 15386

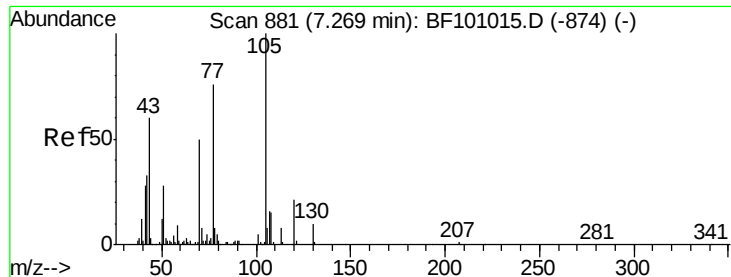
Ion Ratio Lower Upper

94 100

65 38.9 7.9 47.9

66 67.9 16.2 56.2#

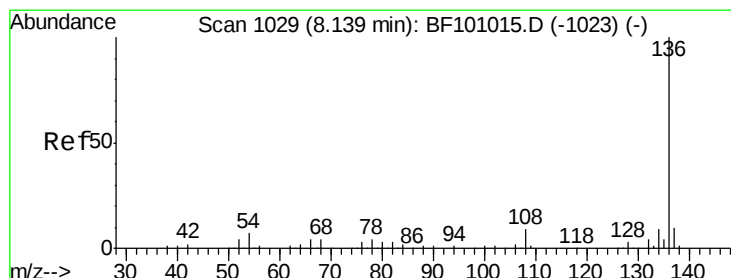
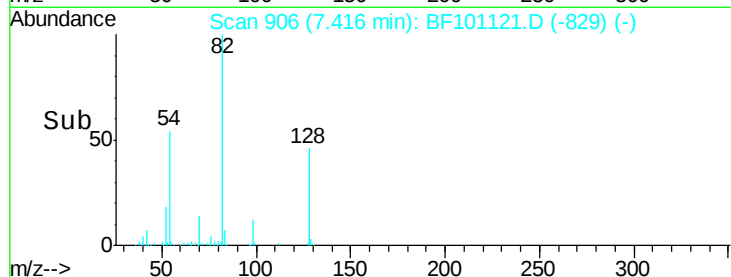
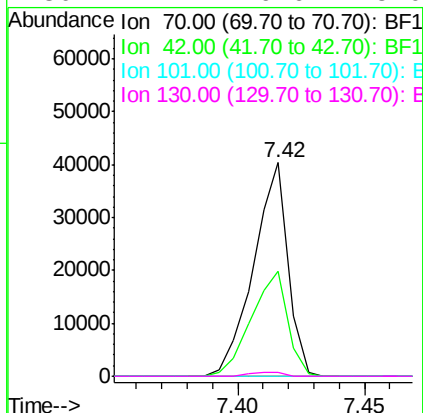
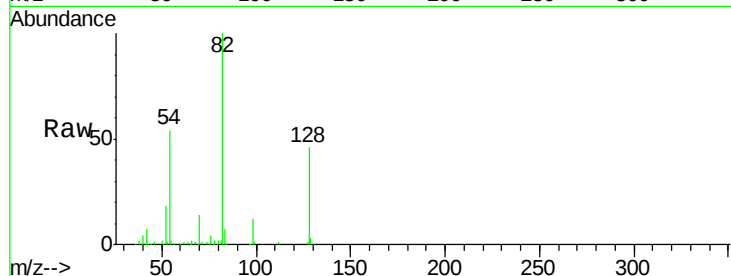




#19
n-Nitroso-di-n-propylamine
Concen: 12.93 ng
RT: 7.42 min Scan# 906
Delta R.T. 0.15 min
Lab File: BF101121.D
Acq: 5 Dec 2017 13:48

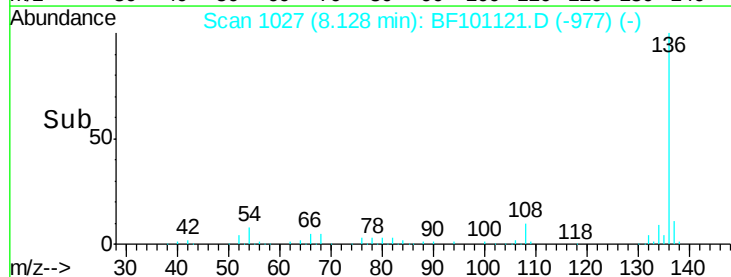
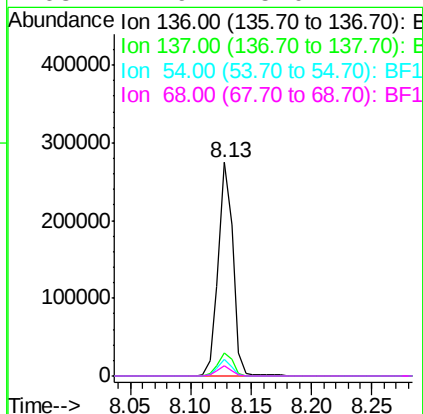
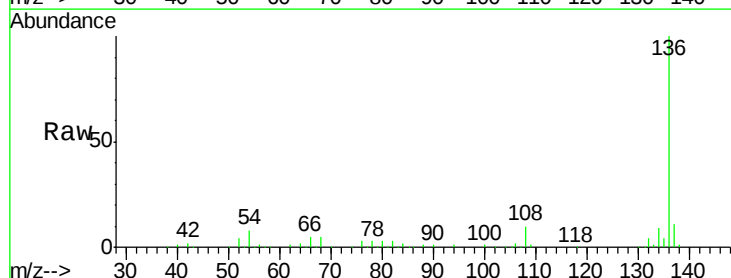
Instrument :
BNA_F
ClientSampleId :

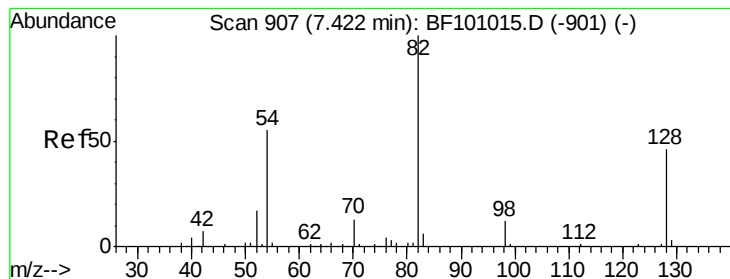
Tot Ion: 70 Resp: 38094
Ion Ratio Lower Upper
70 100
42 49.1 47.5 71.3
101 0.0 7.4 11.2#
130 2.1 16.6 25.0#



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.13 min Scan# 1027
Delta R.T. -0.01 min
Lab File: BF101121.D
Acq: 5 Dec 2017 13:48

Tgt Ion:136 Resp: 229316
Ion Ratio Lower Upper
136 100
137 10.8 8.9 13.3
54 7.8 6.6 9.8
68 4.9 5.0 7.4#





#23

Nitrobenzene-d5

Concen: 73.80 ng

RT: 7.42 min Scan# 906

Delta R.T. 0.00 min

Lab File: BF101121.D

Acq: 5 Dec 2017 13:48

Instrument :

BNA_F

ClientSampled :

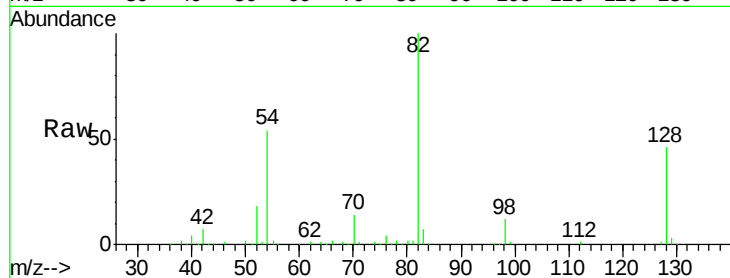
Tot Ion: 82 Resp: 283718

Ion Ratio Lower Upper

82 100

128 46.5 36.1 54.1

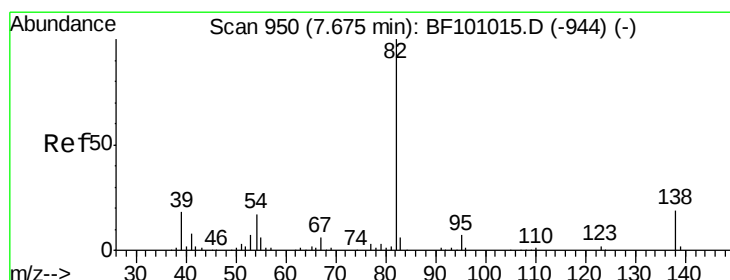
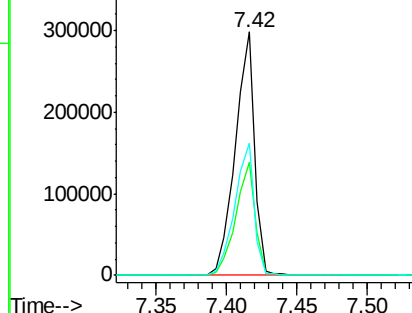
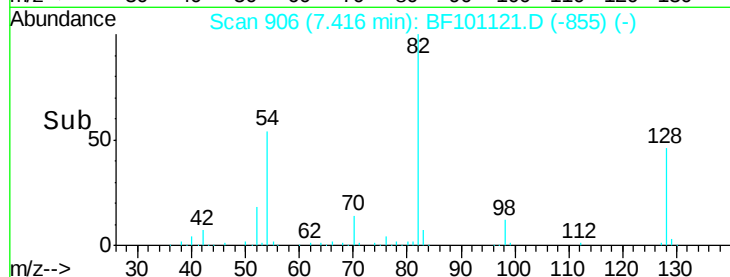
54 54.1 41.4 62.2



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: 43.21 ng

RT: 7.42 min Scan# 906

Delta R.T. -0.26 min

Lab File: BF101121.D

Acq: 5 Dec 2017 13:48

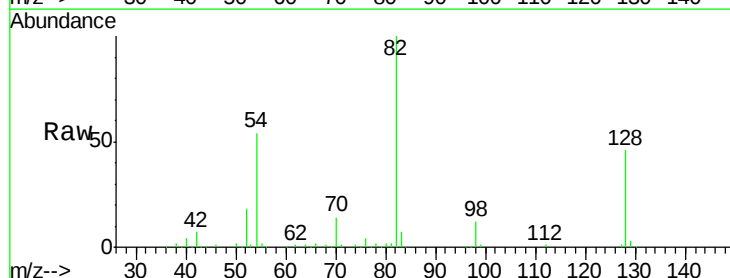
Tgt Ion: 82 Resp: 283715

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

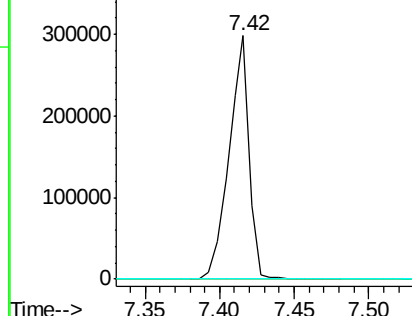
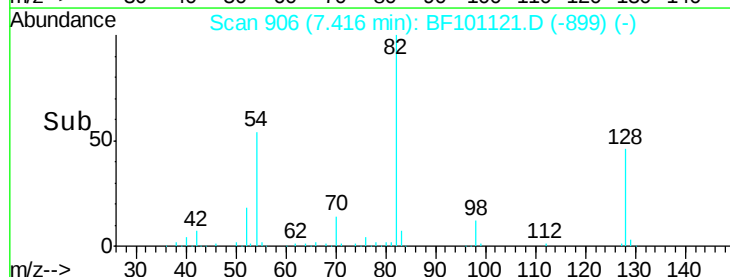
138 0.0 14.9 22.3#

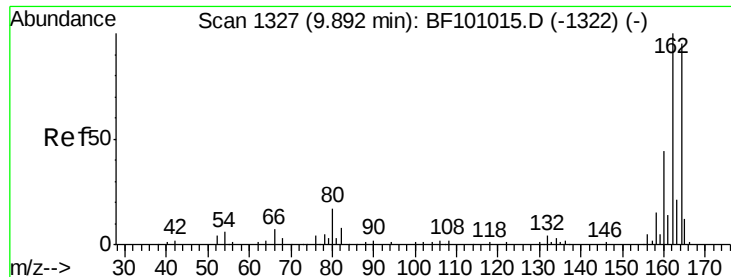


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.89 min Scan# 1326

Delta R.T. 0.00 min

Lab File: BF101121.D

Acq: 5 Dec 2017 13:48

Instrument :

BNA_F

ClientSampleId :

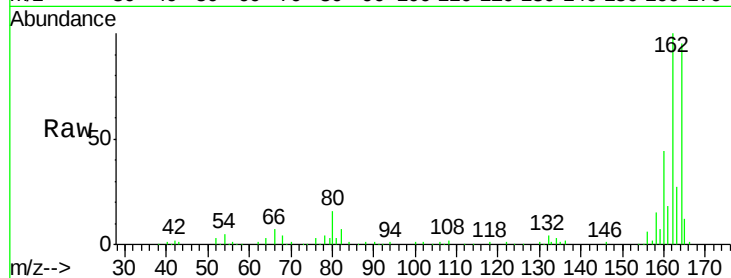
Tot Ion:164 Resp: 107637

Ion Ratio Lower Upper

164 100

162 105.0 86.1 129.1

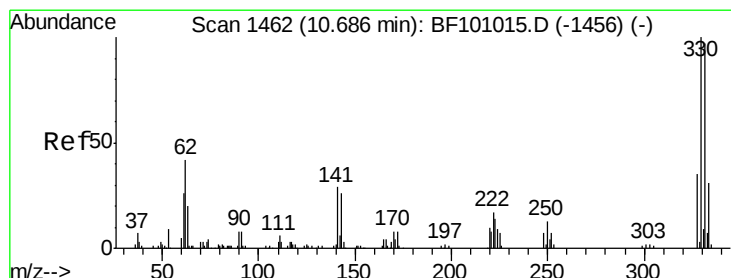
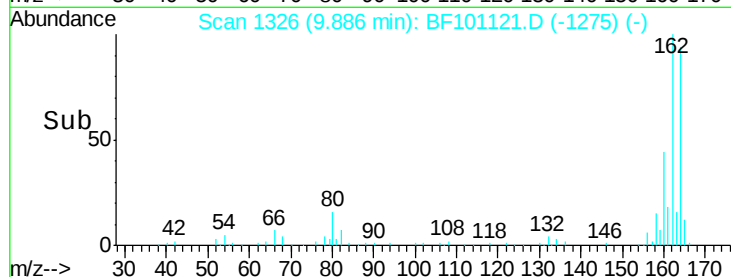
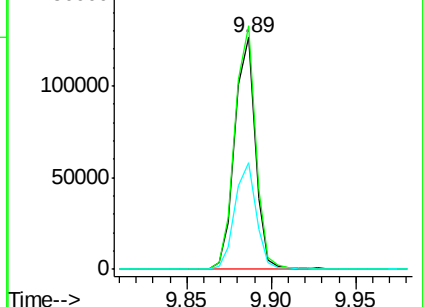
160 46.1 38.3 57.5



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: 97.35 ng

RT: 10.68 min Scan# 1461

Delta R.T. 0.00 min

Lab File: BF101121.D

Acq: 5 Dec 2017 13:48

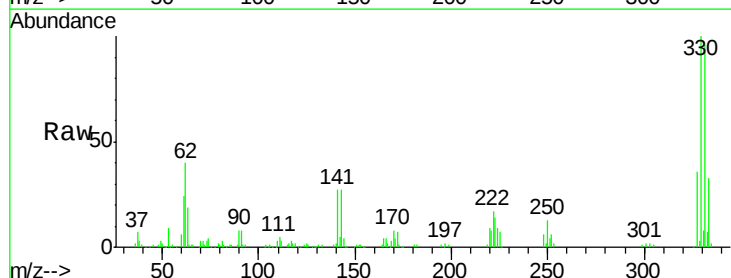
Tgt Ion:330 Resp: 125882

Ion Ratio Lower Upper

330 100

332 96.7 77.0 115.6

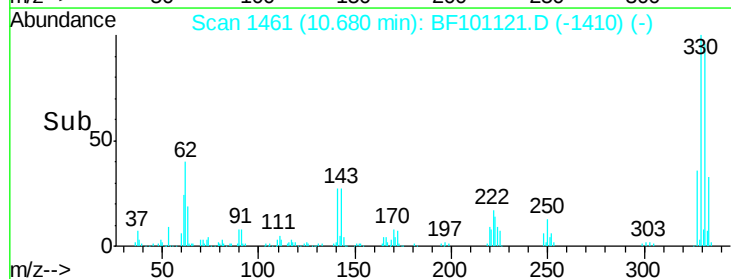
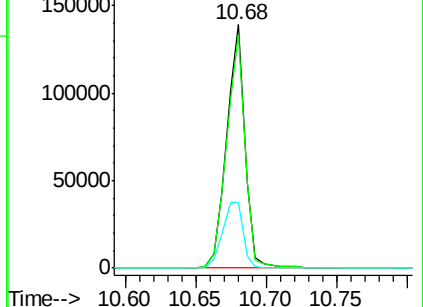
141 30.6 29.9 44.9

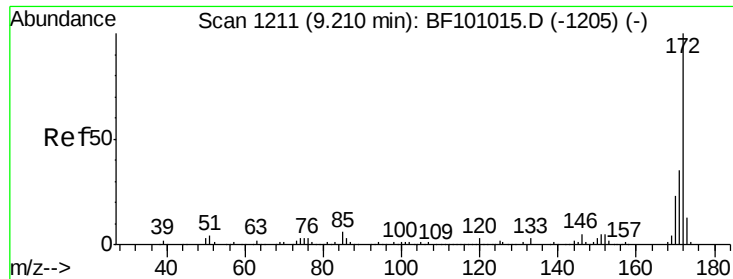


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

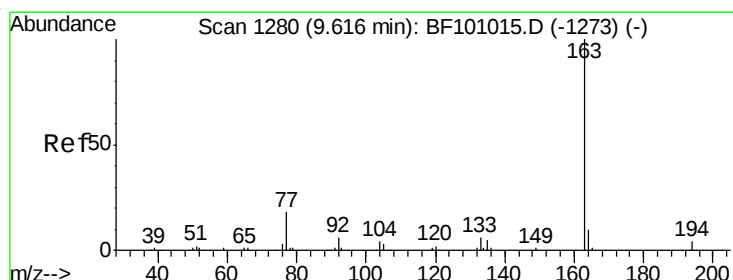
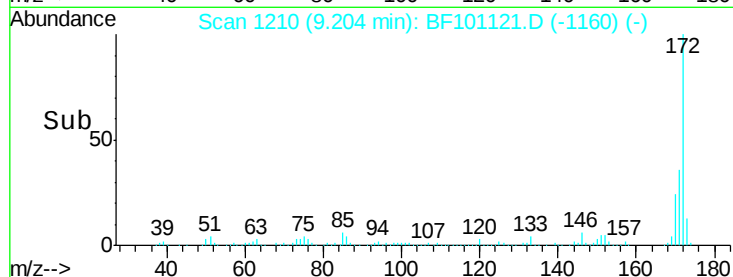
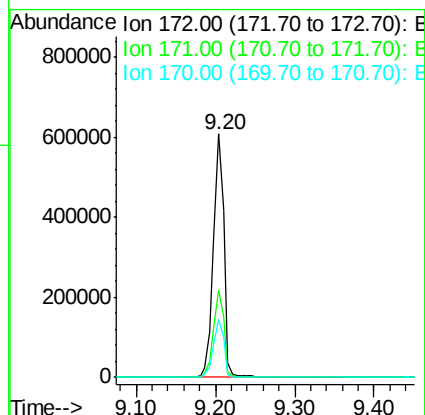
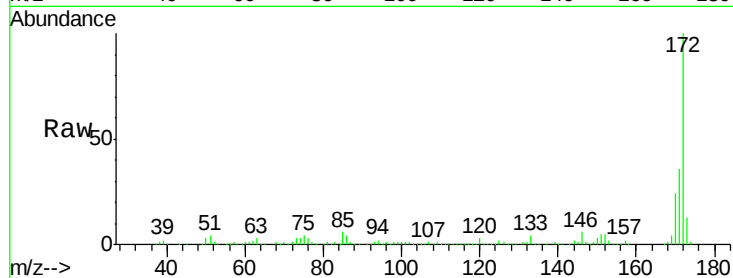




#44
2-Fluorobiphenyl
Concen: 71.17 ng
RT: 9.20 min Scan# 1210
Delta R.T. -0.01 min
Lab File: BF101121.D
Acq: 5 Dec 2017 13:48

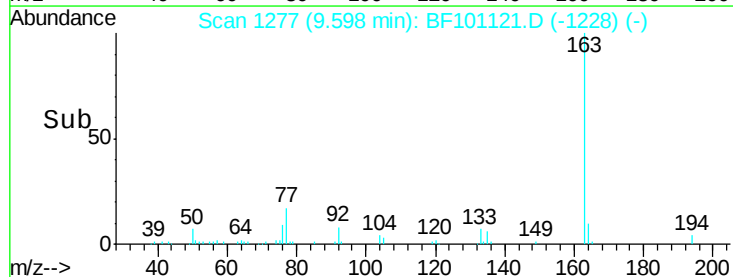
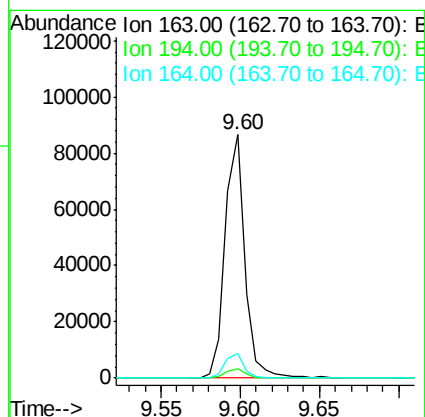
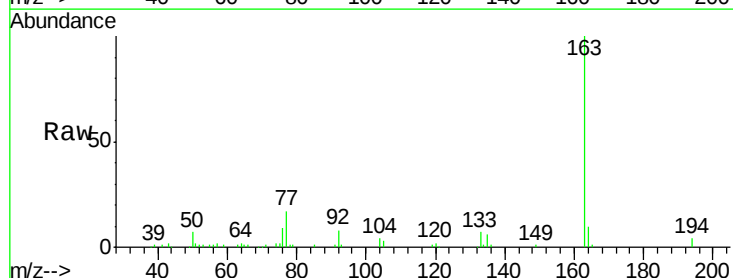
Instrument :
BNA_F
ClientSampleId :

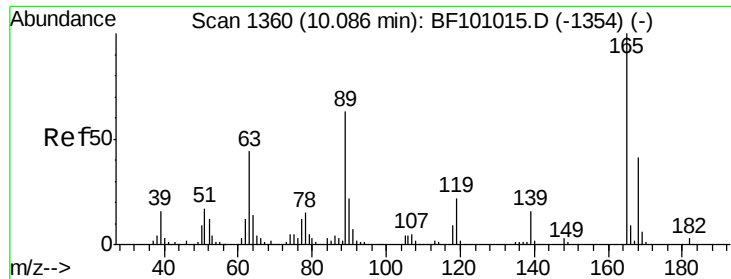
Tot Ion:172 Resp: 559924
Ion Ratio Lower Upper
172 100
171 35.9 29.7 44.5
170 23.7 19.6 29.4



#49
Dimethylphthalate
Concen: 8.65 ng
RT: 9.60 min Scan# 1277
Delta R.T. -0.01 min
Lab File: BF101121.D
Acq: 5 Dec 2017 13:48

Tgt Ion:163 Resp: 75049
Ion Ratio Lower Upper
163 100
194 3.7 2.7 4.1
164 10.3 8.2 12.2

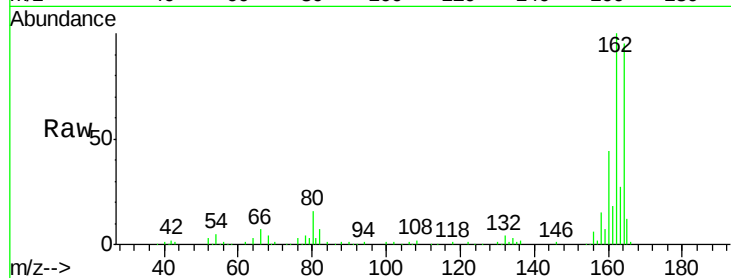




#56
2,4-Dinitrotoluene
Concen: 5.76 ng
RT: 9.89 min Scan# 1326
Delta R.T. -0.19 min
Lab File: BF101121.D
Acq: 5 Dec 2017 13:48

Instrument :
BNA_F
ClientSampled :

Tot 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#

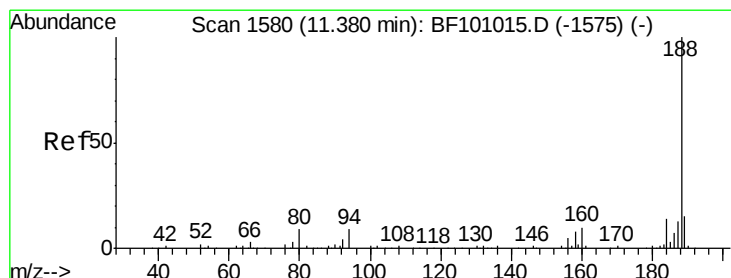
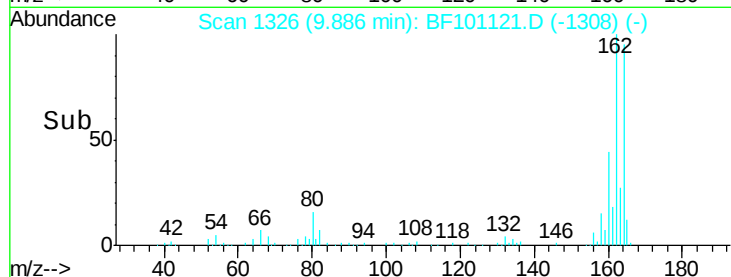
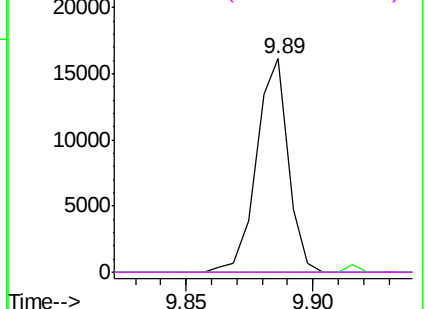


Abundance Ion 165.00 (164.70 to 165.70): E

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



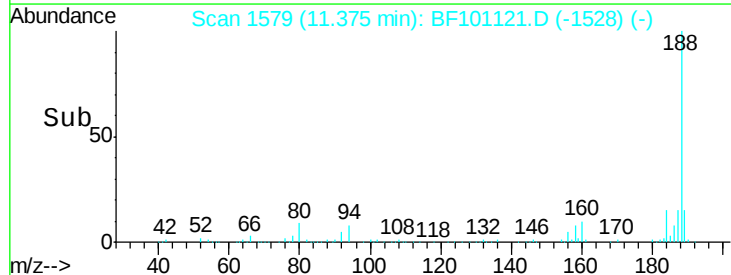
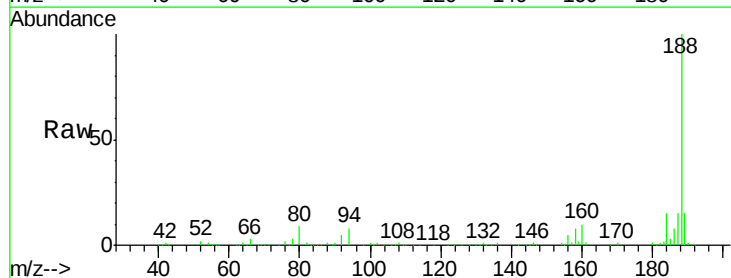
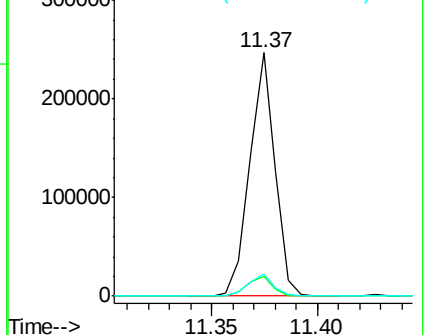
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.37 min Scan# 1579
Delta R.T. 0.00 min
Lab File: BF101121.D
Acq: 5 Dec 2017 13:48

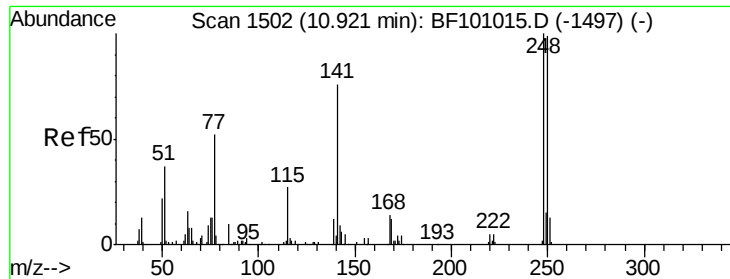
Tgt Ion	Ratio	Lower	Upper
188	100		
94	7.9	8.5	12.7#
80	8.9	9.2	13.8#

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

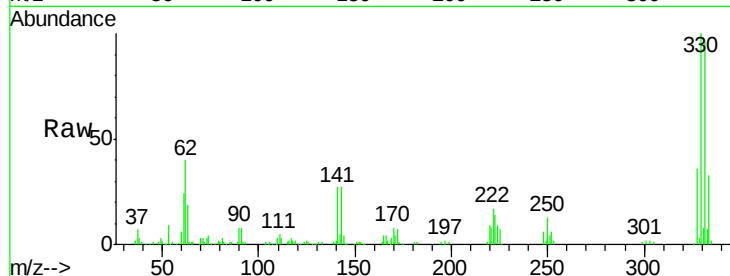




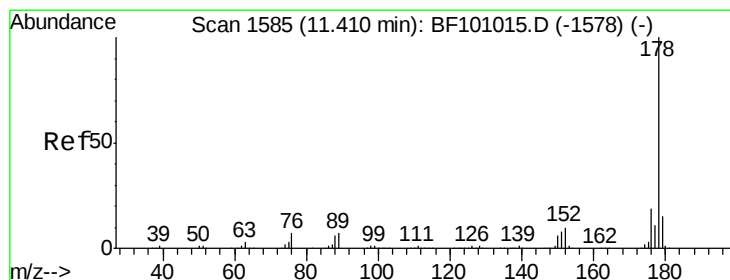
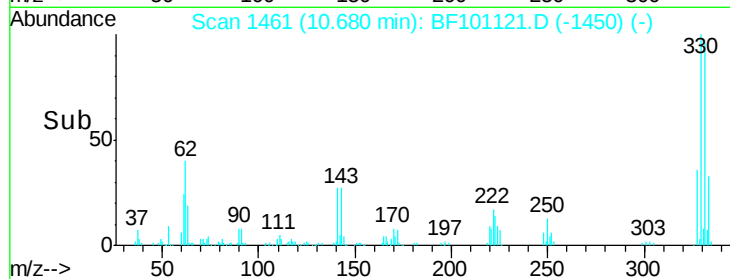
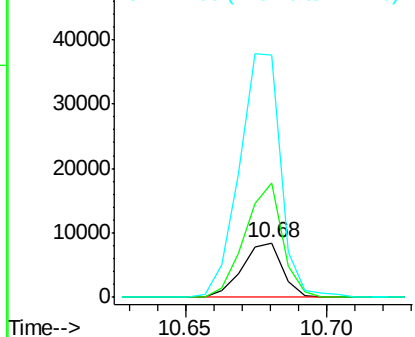
#66
4-Bromophenyl-phenylether
Concen: 3.63 ng
RT: 10.68 min Scan# 1461
Delta R.T. -0.24 min
Lab File: BF101121.D
Acq: 5 Dec 2017 13:48

Instrument :
BNA_F
ClientSampled :

Tot Ion:248 Resp: 8309
Ion Ratio Lower Upper
248 100
250 209.2 76.9 115.3#
141 446.0 74.4 111.6#

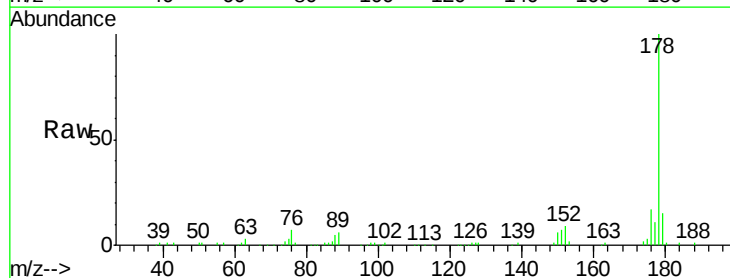


Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E

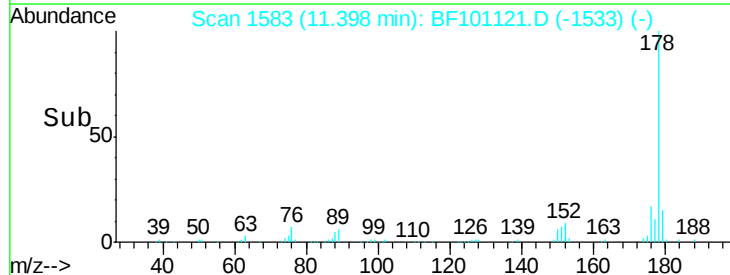
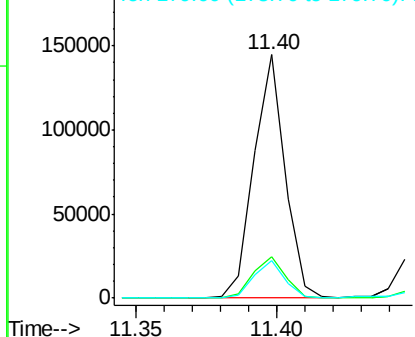


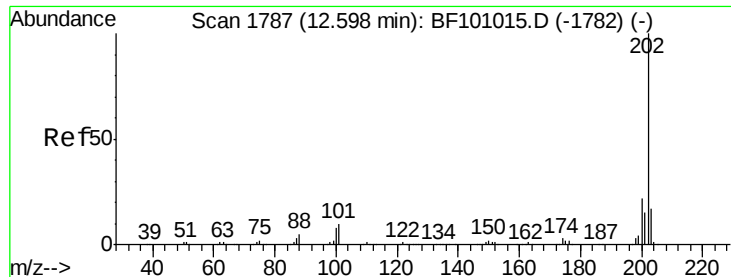
#70
Phenanthrene
Concen: 9.84 ng
RT: 11.40 min Scan# 1583
Delta R.T. -0.01 min
Lab File: BF101121.D
Acq: 5 Dec 2017 13:48

Tgt Ion:178 Resp: 110846
Ion Ratio Lower Upper
178 100
176 17.0 15.8 23.8
179 15.5 13.0 19.6



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

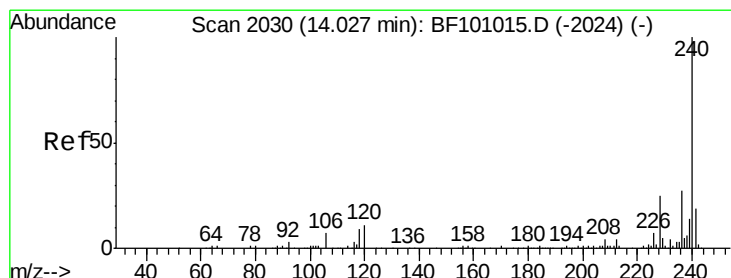
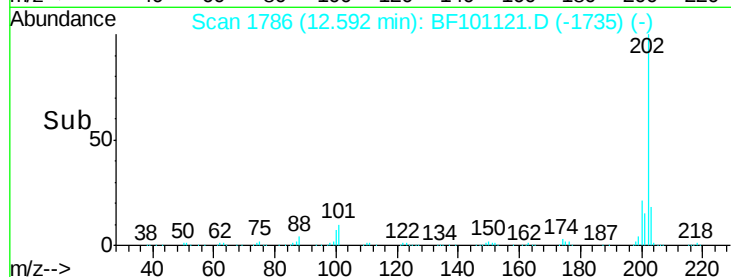
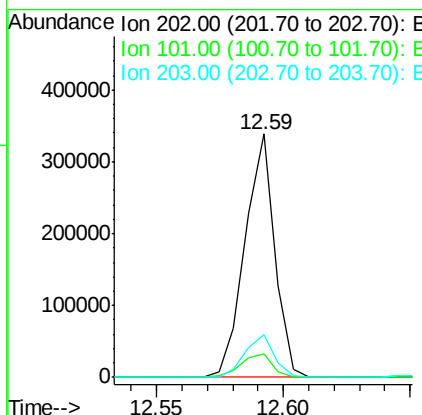
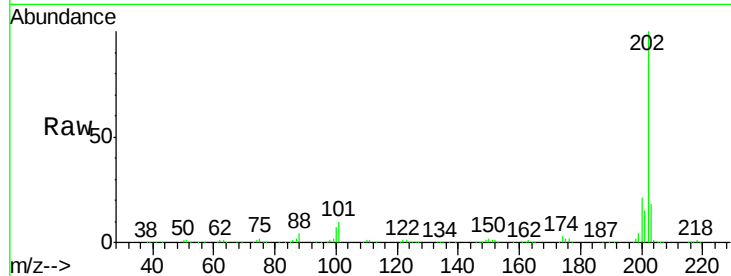




#74
 Fluoranthene
 Concen: 22.16 ng
 RT: 12.59 min Scan# 1786
 Delta R.T. 0.00 min
 Lab File: BF101121.D
 Acq: 5 Dec 2017 13:48

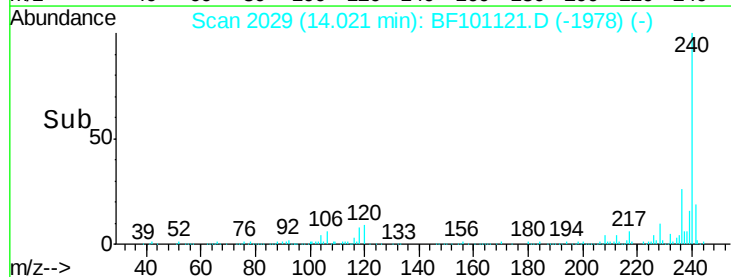
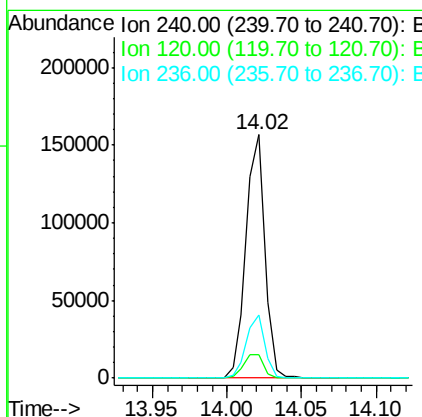
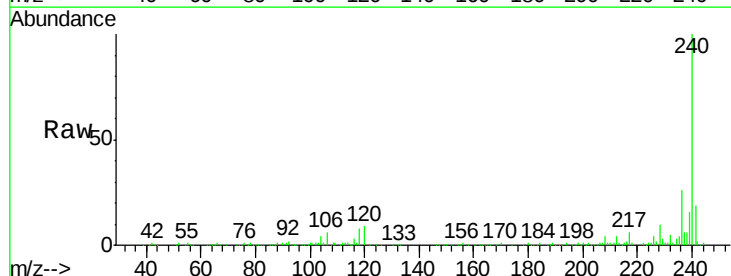
Instrument :
 BNA_F
 ClientSampleId :

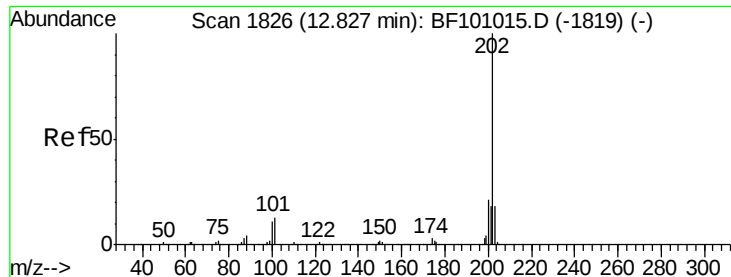
Tot Ion	Ratio	Lower	Upper
202	100		
101	9.8	0.0	34.1
203	17.5	0.0	38.1



#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 14.02 min Scan# 2029
 Delta R.T. 0.00 min
 Lab File: BF101121.D
 Acq: 5 Dec 2017 13:48

Tgt Ion	Ratio	Lower	Upper
240	100		
120	9.5	9.5	14.3#
236	25.9	20.7	31.1





#77

Pvrene

Concen: 26.45 ng

RT: 12.82 min Scan# 1825

Delta R.T. 0.00 min

Lab File: BF101121.D

Acq: 5 Dec 2017 13:48

Instrument :

BNA_F

ClientSampleId :

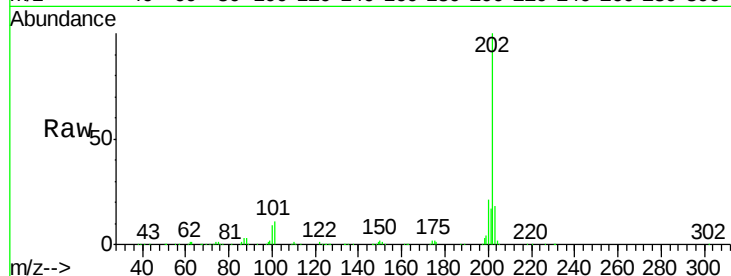
Tot Ion:202 Resp: 252562

Ion Ratio Lower Upper

202 100

200 20.5 17.4 26.2

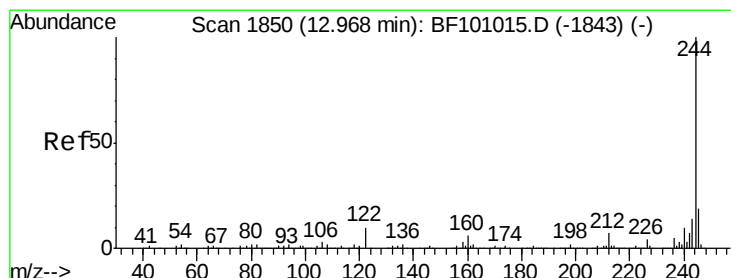
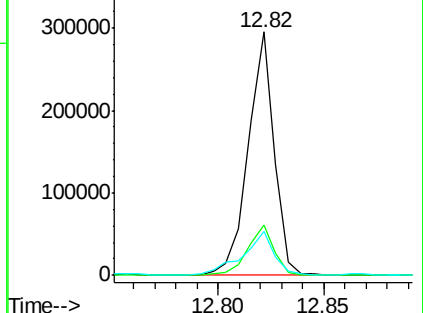
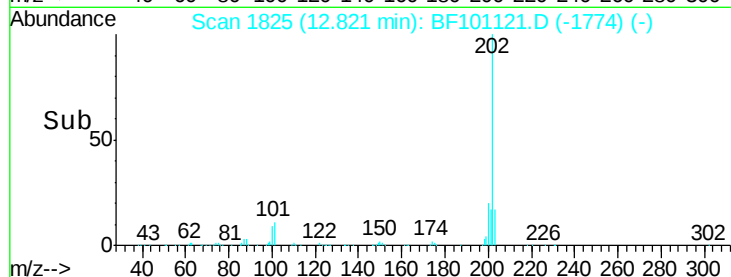
203 17.9 14.3 21.5



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 80.26 ng

RT: 12.96 min Scan# 1849

Delta R.T. 0.00 min

Lab File: BF101121.D

Acq: 5 Dec 2017 13:48

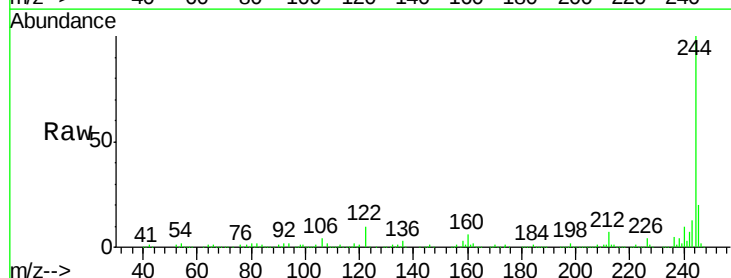
Tgt Ion:244 Resp: 507845

Ion Ratio Lower Upper

244 100

212 7.1 5.4 8.0

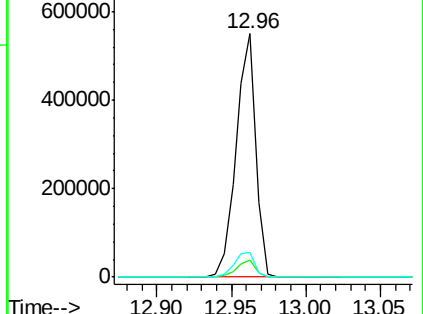
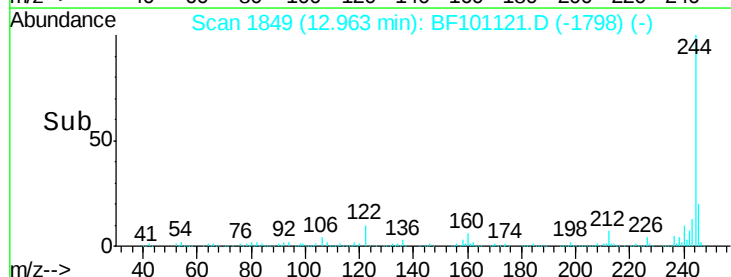
122 10.1 11.0 16.4#

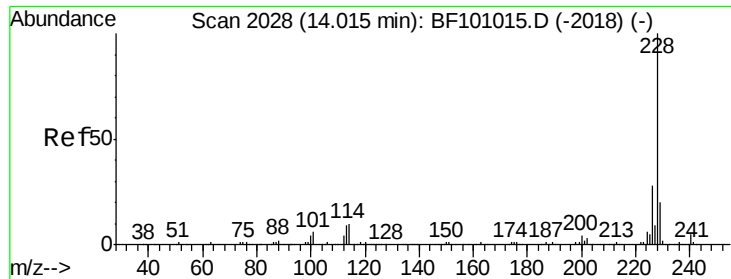


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

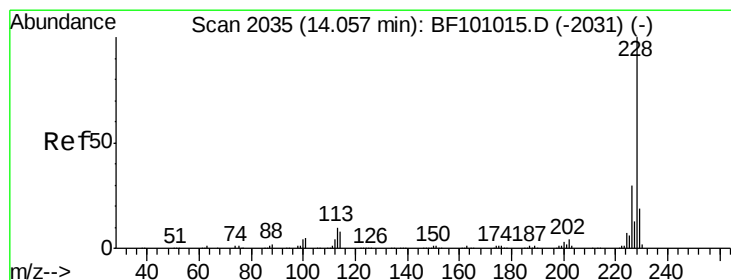
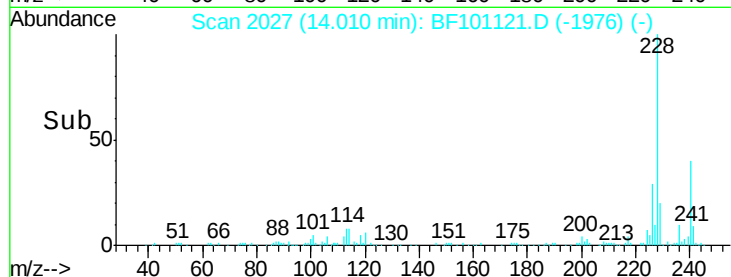
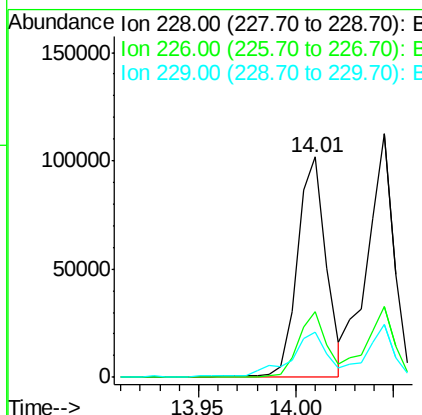
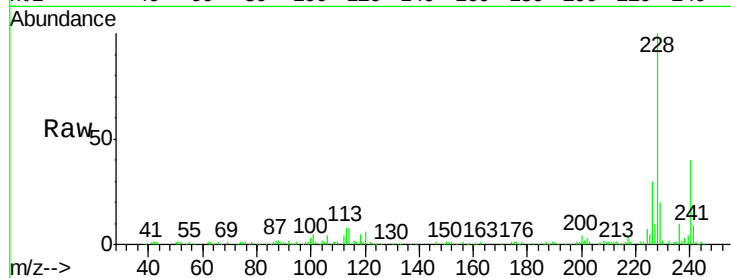




#80
Benzo(a)anthracene
Concen: 11.88 ng
RT: 14.01 min Scan# 2027
Delta R.T. 0.00 min
Lab File: BF101121.D
Acq: 5 Dec 2017 13:48

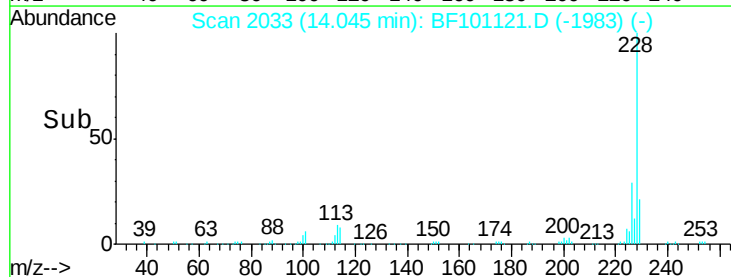
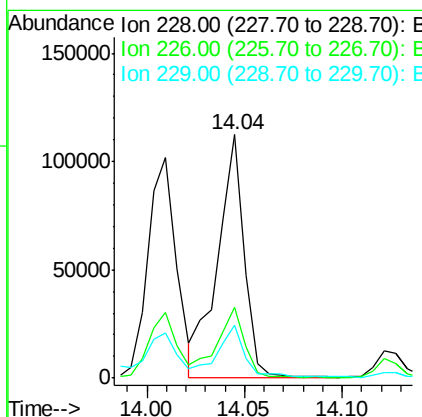
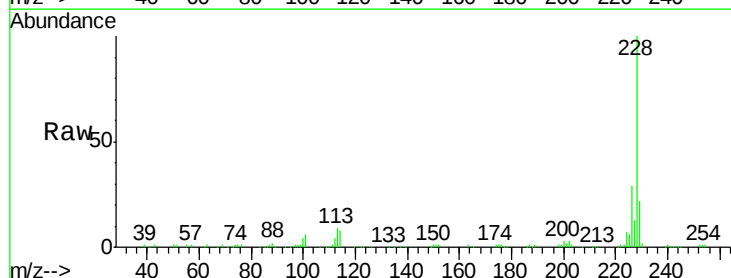
Instrument :
BNA_F
ClientSampleId :

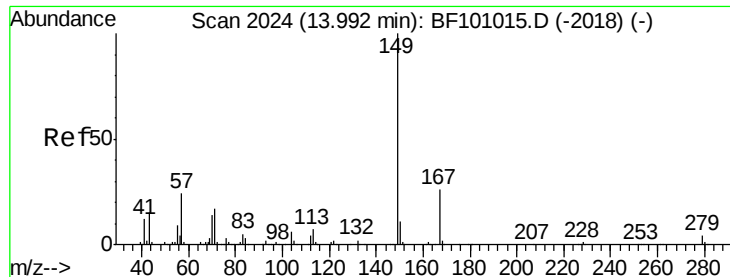
Tot Ion:228 Resp: 103791
Ion Ratio Lower Upper
228 100
226 29.9 22.6 33.8
229 20.4 15.8 23.6



#82
Chrysene
Concen: 13.16 ng
RT: 14.04 min Scan# 2033
Delta R.T. -0.01 min
Lab File: BF101121.D
Acq: 5 Dec 2017 13:48

Tgt Ion:228 Resp: 106783
Ion Ratio Lower Upper
228 100
226 28.9 25.0 37.6
229 21.7 16.2 24.4





#83

Bis(2-ethylhexyl)phthalate

Concen: 5.19 ng

RT: 13.98 min Scan# 2022

Delta R.T. -0.01 min

Lab File: BF101121.D

Acq: 5 Dec 2017 13:48

Instrument :

BNA_F

ClientSampleId :

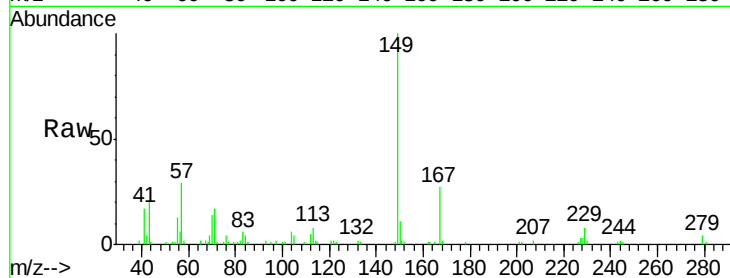
Tot Ion:149 Resp: 31134

Ion Ratio Lower Upper

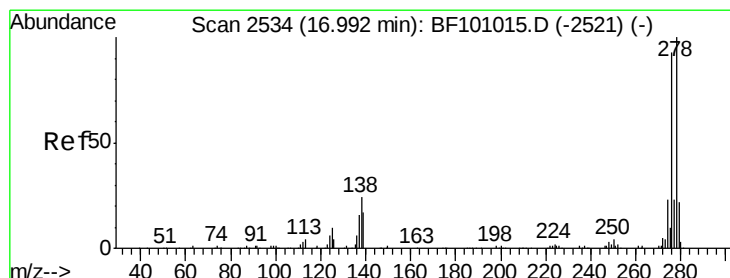
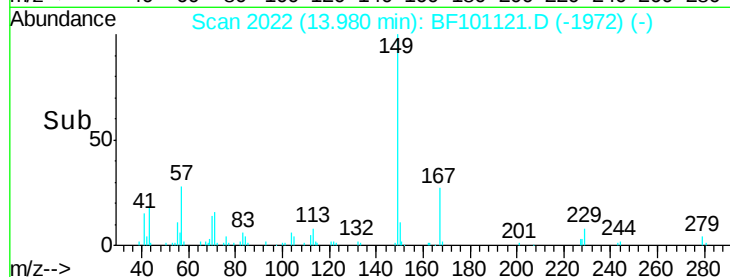
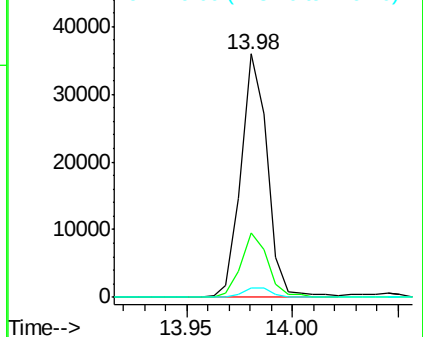
149 100

167 26.7 21.3 31.9

279 4.0 3.0 4.4



Abundance Ion 149.00 (148.70 to 149.70): E
Ion 167.00 (166.70 to 167.70): E
Ion 279.00 (278.70 to 279.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 8.08 ng

RT: 16.97 min Scan# 2531

Delta R.T. 0.00 min

Lab File: BF101121.D

Acq: 5 Dec 2017 13:48

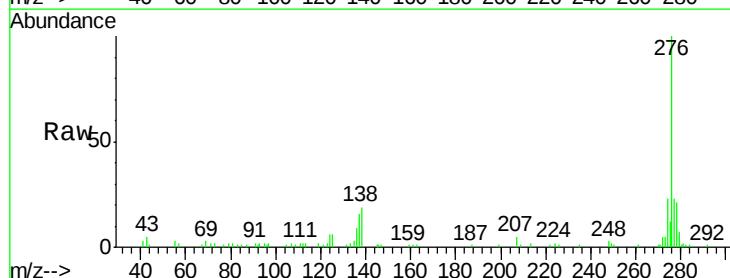
Tgt Ion:276 Resp: 58273

Ion Ratio Lower Upper

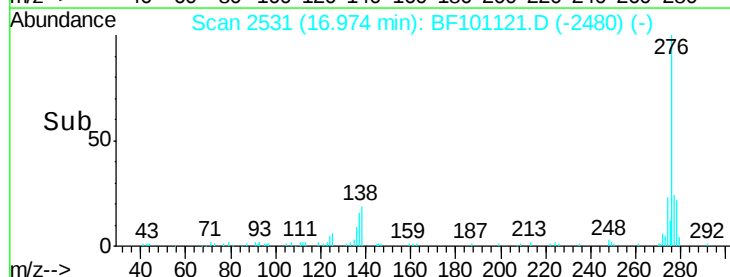
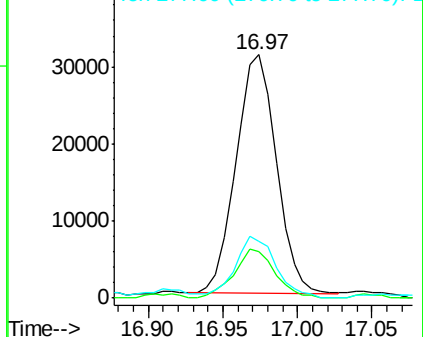
276 100

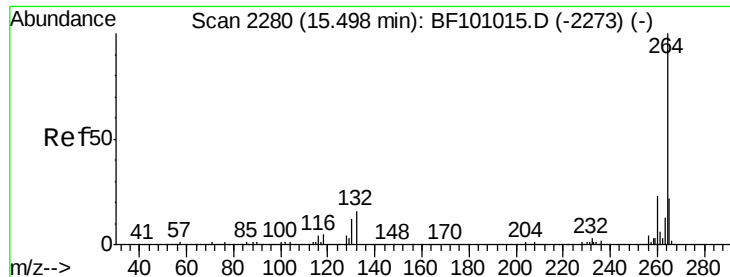
138 20.7 25.0 37.6#

277 26.2 20.1 30.1



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

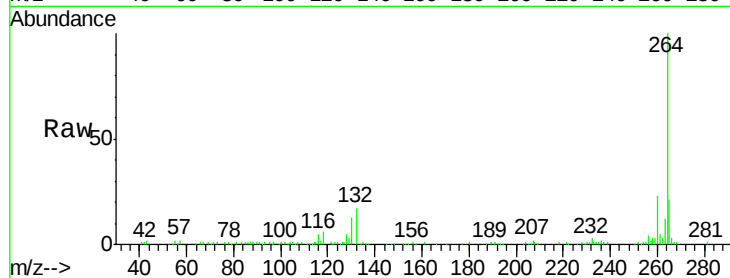




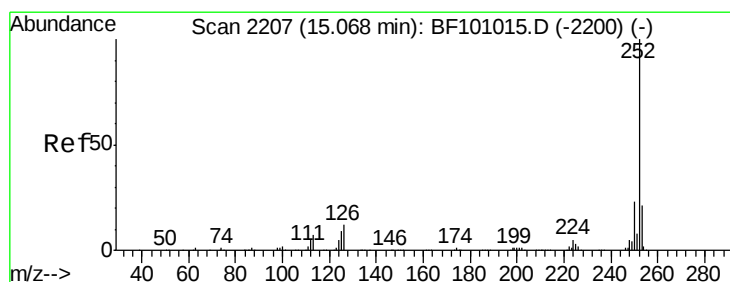
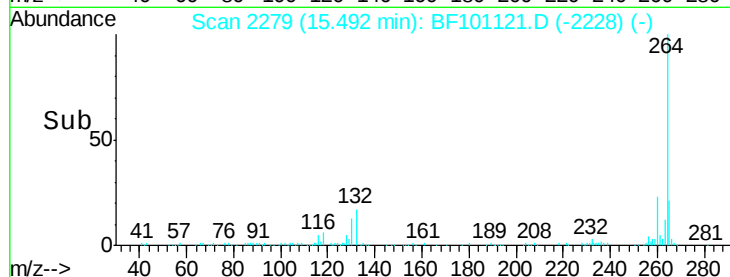
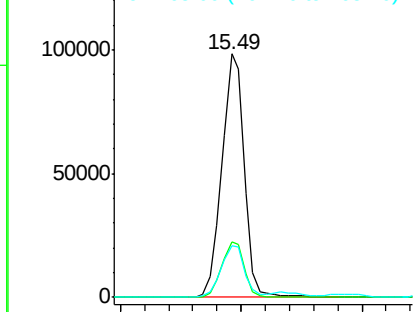
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.49 min Scan# 2279
Delta R.T. 0.00 min
Lab File: BF101121.D
Acq: 5 Dec 2017 13:48

Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 125581
Ion Ratio Lower Upper
264 100
260 22.6 19.2 28.8
265 21.0 17.5 26.3

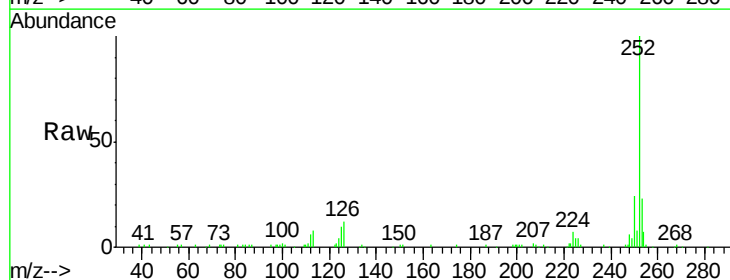


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

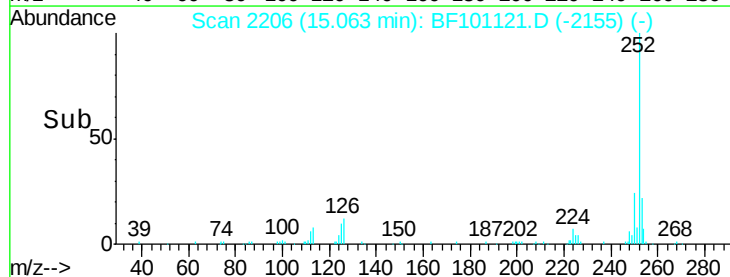
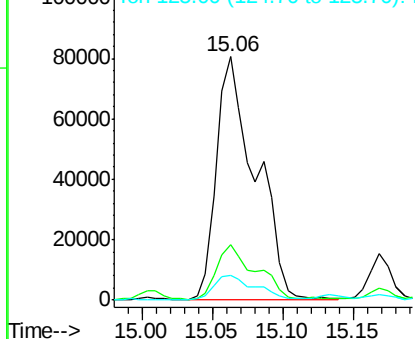


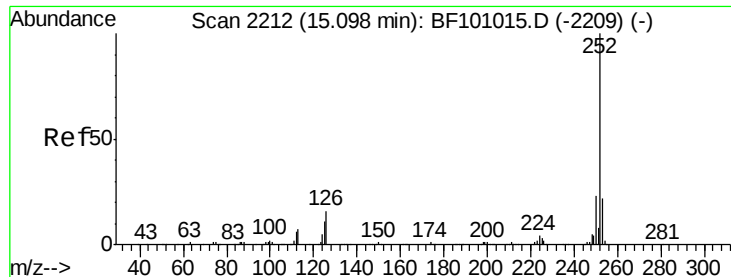
#87
Benzo(b)fluoranthene
Concen: 20.81 ng
RT: 15.06 min Scan# 2206
Delta R.T. 0.00 min
Lab File: BF101121.D
Acq: 5 Dec 2017 13:48

Tgt Ion:252 Resp: 156524
Ion Ratio Lower Upper
252 100
253 22.6 17.0 25.6
125 10.0 9.0 13.6



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

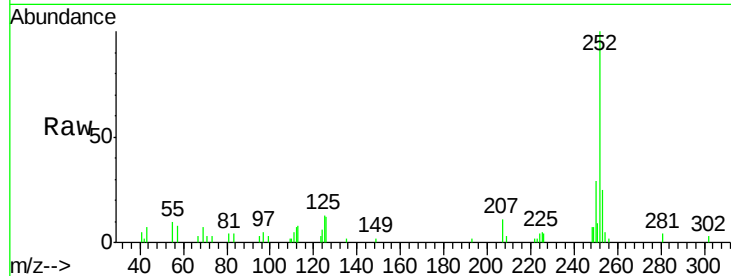




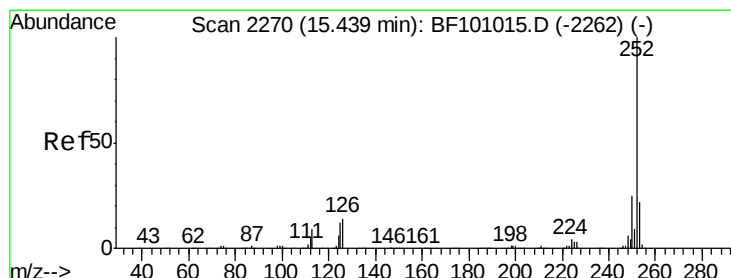
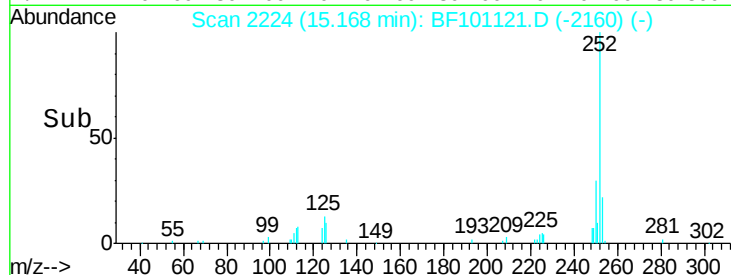
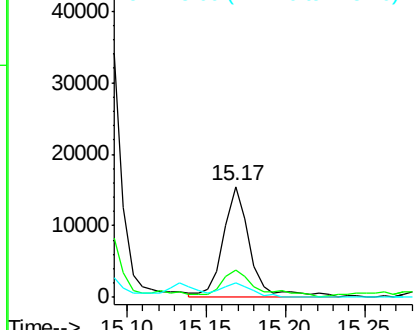
#88
Benzo(k)fluoranthene
Concen: 2.46 ng
RT: 15.17 min Scan# 2224
Delta R.T. 0.08 min
Lab File: BF101121.D
Acq: 5 Dec 2017 13:48

Instrument :
BNA_F
ClientSampled :

Tot Ion:252 Resp: 18252
Ion Ratio Lower Upper
252 100
253 24.9 17.9 26.9
125 12.8 10.2 15.2

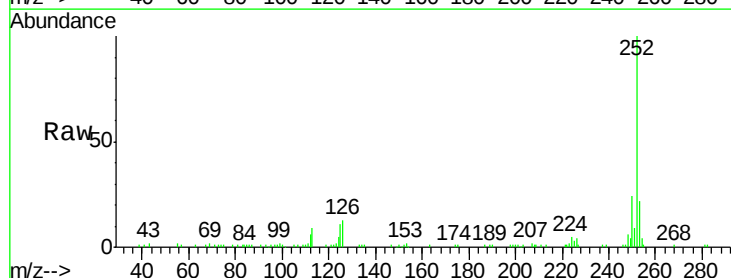


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

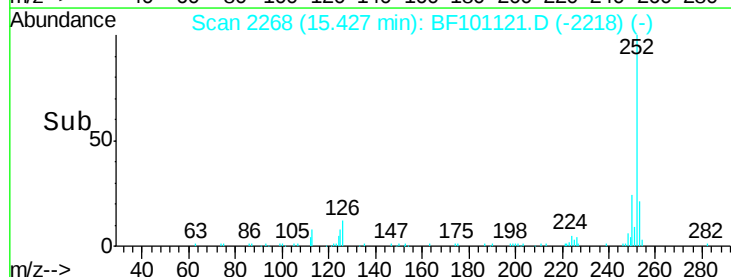
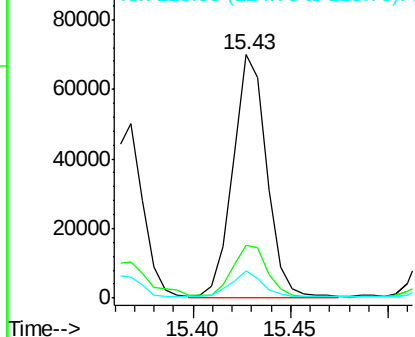


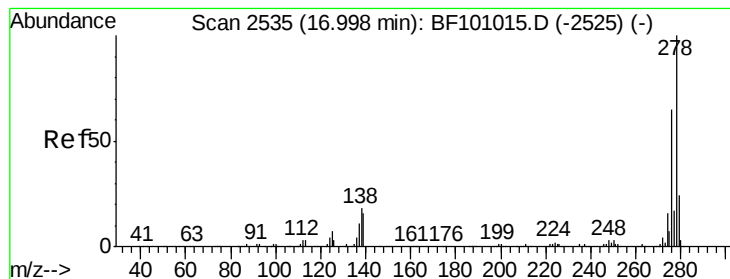
#89
Benzo(a)pyrene
Concen: 12.40 ng
RT: 15.43 min Scan# 2268
Delta R.T. -0.01 min
Lab File: BF101121.D
Acq: 5 Dec 2017 13:48

Tgt Ion:252 Resp: 84792
Ion Ratio Lower Upper
252 100
253 21.9 17.1 25.7
125 11.1 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: 2.39 ng

RT: 16.98 min Scan# 2532

Delta R.T. -0.01 min

Lab File: BF101121.D

Acq: 5 Dec 2017 13:48

Instrument :

BNA_F

ClientSampleId :

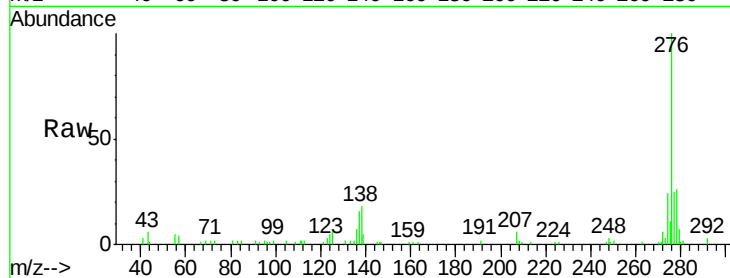
Tot Ion:278 Resp: 14380

Ion Ratio Lower Upper

278 100

139 19.8 15.9 23.9

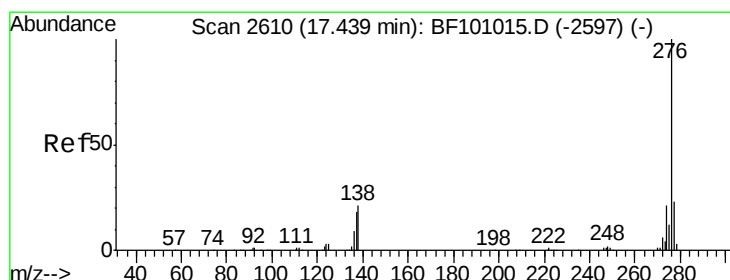
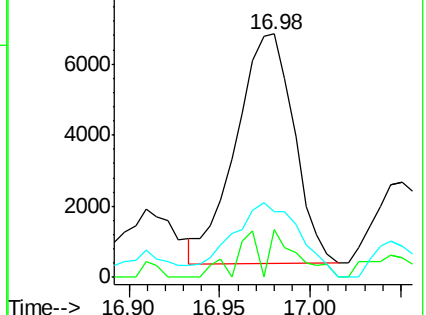
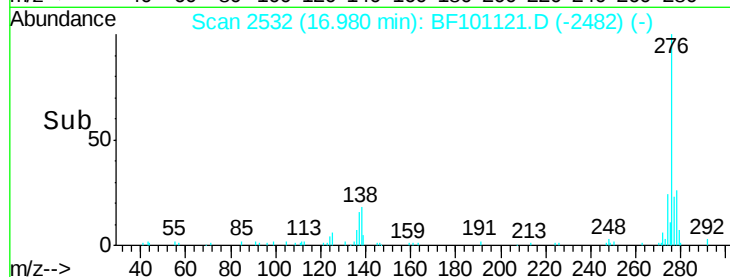
279 26.8 19.0 28.4



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(g,h,i)perylene

Concen: 10.04 ng

RT: 17.42 min Scan# 2607

Delta R.T. -0.01 min

Lab File: BF101121.D

Acq: 5 Dec 2017 13:48

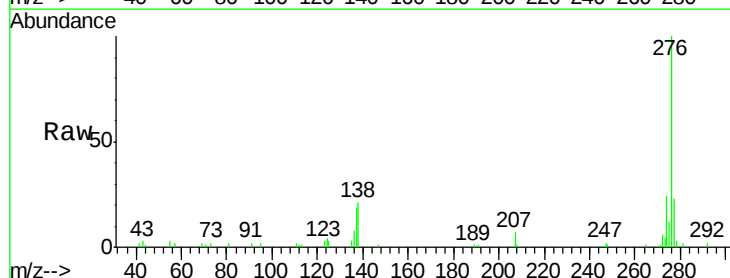
Tgt Ion:276 Resp: 57069

Ion Ratio Lower Upper

276 100

277 22.9 17.9 26.9

138 20.9 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

