

Data Path : U:\HPCHEM1\BNA F\DATA\BF011218\  
 Data File : BF102060.D  
 Acq On : 12 Jan 2018 23:06  
 Operator : SJ/JU  
 Sample : J1018-03  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jan 13 00:40:10 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jan 11 12:53:54 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.73  | 152  | 217781   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.01  | 136  | 834437   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.76  | 164  | 302733   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.25 | 188  | 435937   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.89 | 240  | 366197   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.32 | 264  | 265218   | 20.00 | ng    | 0.02     |

## System Monitoring Compounds

|                          |       |     |         |       |    |      |
|--------------------------|-------|-----|---------|-------|----|------|
| 5) 2-Fluorophenol        | 5.35  | 112 | 1532336 | 99.36 | ng | 0.02 |
| 7) Phenol-d6             | 6.37  | 99  | 1811704 | 98.46 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 7.30  | 82  | 1088527 | 76.66 | ng | 0.00 |
| 41) 2,4,6-Tribromophenol | 10.56 | 330 | 252823  | 95.70 | ng | 0.00 |
| 44) 2-Fluorobiphenyl     | 9.09  | 172 | 1579337 | 81.50 | ng | 0.00 |
| 78) Terphenyl-d14        | 12.84 | 244 | 1115136 | 63.23 | ng | 0.00 |

## Target Compounds

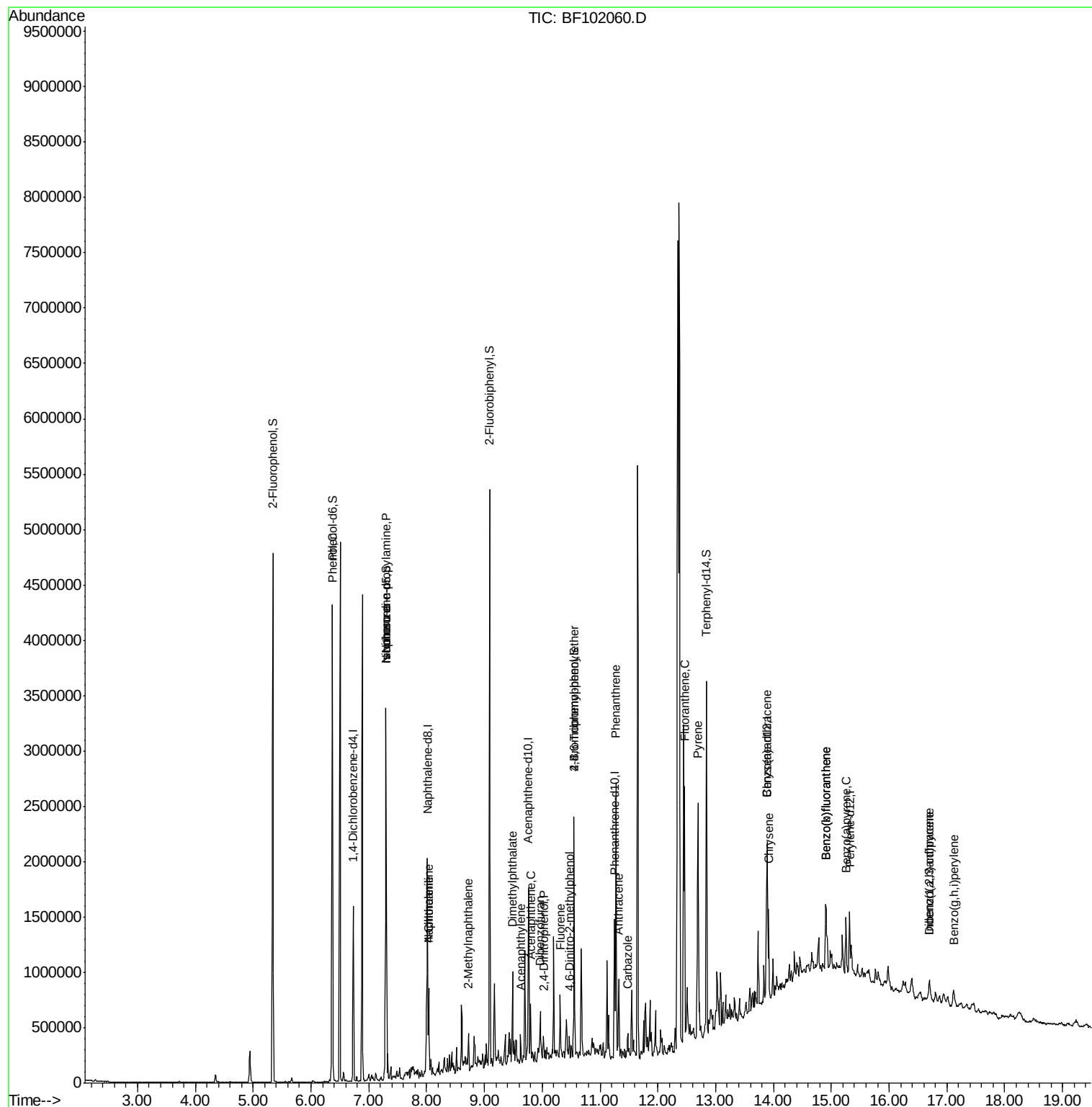
|                                |       |     |         |        |    | Qvalue |
|--------------------------------|-------|-----|---------|--------|----|--------|
| 10) Phenol                     | 6.38  | 94  | 98149   | 4.720  | ng | 96     |
| 19) n-Nitroso-di-n-propylamine | 7.30  | 70  | 149855  | 12.427 | ng | # 80   |
| 25) Isophorone                 | 7.30  | 82  | 1086691 | 38.731 | ng | # 64   |
| 31) Naphthalene                | 8.03  | 128 | 266168  | 6.384  | ng | 99     |
| 33) 4-Chloroaniline            | 8.03  | 127 | 36291   | 2.039  | ng | # 33   |
| 37) 2-Methylnaphthalene        | 8.72  | 142 | 83464   | 3.041  | ng | 98     |
| 48) Acenaphthylene             | 9.63  | 152 | 88200   | 2.678  | ng | 99     |
| 49) Dimethylphthalate          | 9.49  | 163 | 222695  | 9.170  | ng | 100    |
| 51) Acenaphthene               | 9.80  | 154 | 91025   | 4.554  | ng | 97     |
| 53) 2,4-Dinitrophenol          | 10.02 | 184 | 128     | 8.719  | ng | # 47   |
| 54) Dibenzofuran               | 9.97  | 168 | 112795  | 4.112  | ng | 98     |
| 57) Fluorene                   | 10.31 | 166 | 134162  | 7.075  | ng | 97     |
| 64) 4,6-Dinitro-2-methylphenol | 10.47 | 198 | 108     | 5.702  | ng | # 1    |
| 66) 4-Bromophenyl-phenylether  | 10.56 | 248 | 17191   | 3.734  | ng | # 1    |
| 70) Phenanthrene               | 11.27 | 178 | 844110  | 33.148 | ng | 99     |
| 71) Anthracene                 | 11.32 | 178 | 250988  | 9.719  | ng | 99     |
| 72) Carbazole                  | 11.48 | 167 | 77275   | 3.044  | ng | 98     |
| 74) Fluoranthene               | 12.46 | 202 | 941577  | 37.582 | ng | 99     |
| 77) Pyrene                     | 12.69 | 202 | 860889  | 26.596 | ng | 99     |
| 80) Benzo(a)anthracene         | 13.88 | 228 | 380406  | 16.281 | ng | 96     |
| 82) Chrysene                   | 13.92 | 228 | 354814  | 14.564 | ng | 97     |
| 85) Indeno(1,2,3-cd)pyrene     | 16.70 | 276 | 121425  | 6.848  | ng | 100    |
| 87) Benzo(b)fluoranthene       | 14.90 | 252 | 453710  | 26.236 | ng | # 92   |
| 88) Benzo(k)fluoranthene       | 14.90 | 252 | 453710  | 27.197 | ng | # 95   |
| 89) Benzo(a)pyrene             | 15.25 | 252 | 239478  | 15.389 | ng | # 92   |
| 90) Dibenzo(a,h)anthracene     | 16.70 | 278 | 28404   | 2.287  | ng | # 67   |
| 91) Benzo(g,h,i)perylene       | 17.12 | 276 | 123152  | 9.845  | ng | 97     |

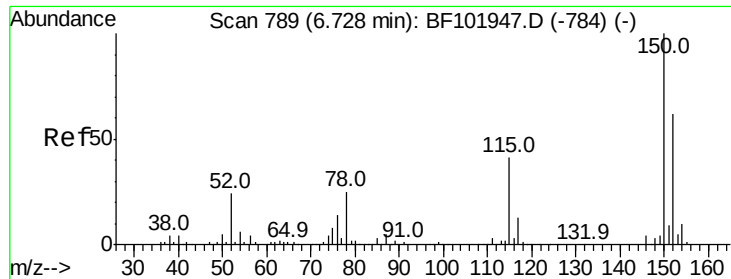
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jan 13 00:40:10 2018  
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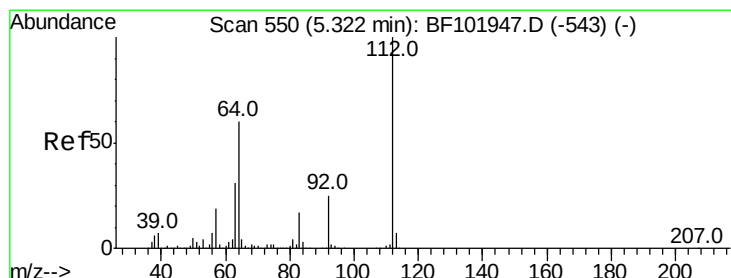
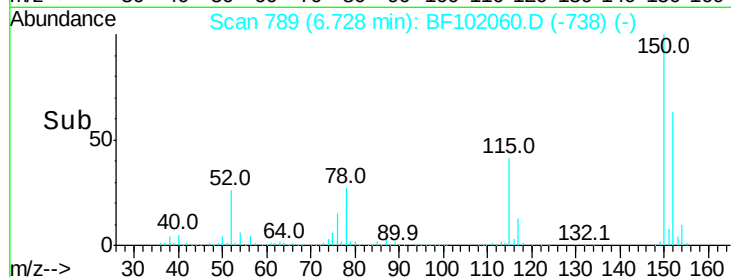
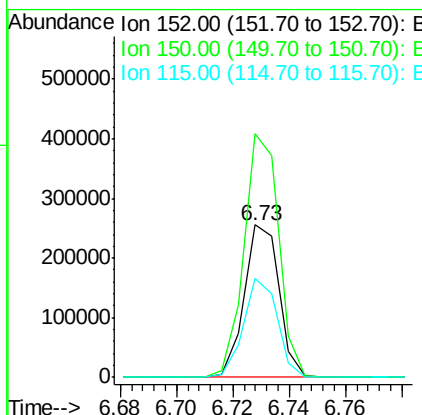
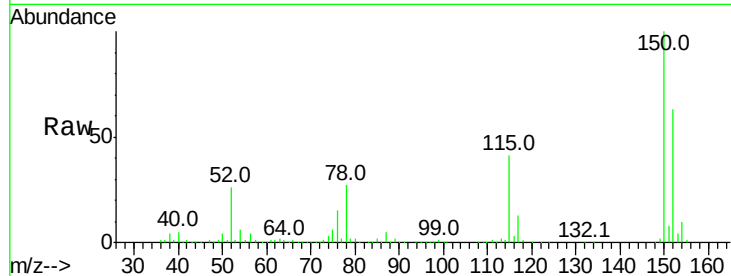


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.73 min Scan# 789  
Delta R.T. 0.00 min  
Lab File: BF102060.D  
Acq: 12 Jan 2018 23:06

Instrument :  
BNA\_F  
ClientSampleId :

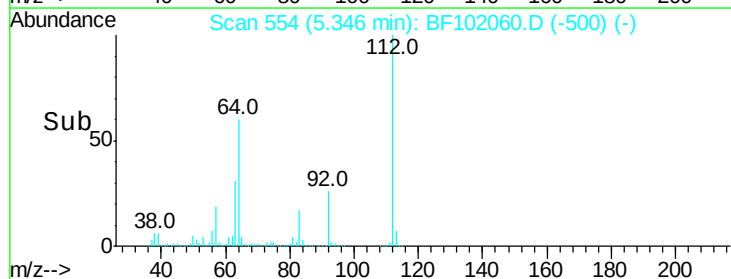
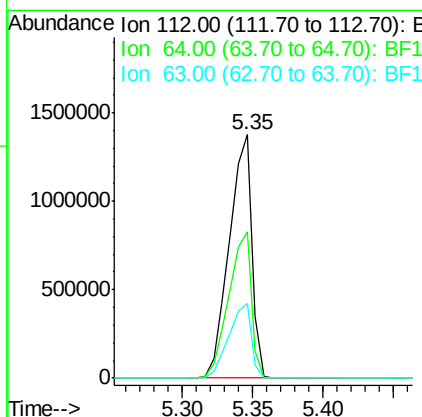
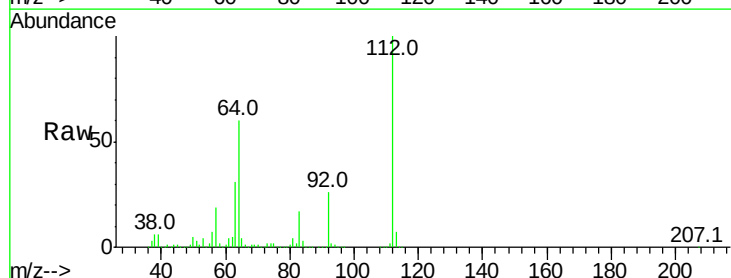
Tot Ion:152 Resp: 217781  
Ion Ratio Lower Upper  
152 100  
150 159.5 124.6 186.8  
115 64.9 50.1 75.1

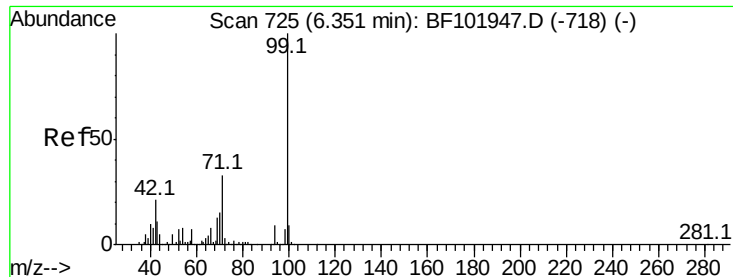


#5

2-Fluorophenol  
Concen: 99.356 ng  
RT: 5.35 min Scan# 554  
Delta R.T. 0.02 min  
Lab File: BF102060.D  
Acq: 12 Jan 2018 23:06

Tgt Ion:112 Resp: 1532336  
Ion Ratio Lower Upper  
112 100  
64 60.3 47.9 71.9  
63 30.6 23.7 35.5





#7

Phenol-d6

Concen: 98.458 ng

RT: 6.37 min Scan# 728

Delta R.T. 0.01 min

Lab File: BF102060.D

Acq: 12 Jan 2018 23:06

Instrument :

BNA\_F

ClientSampleId :

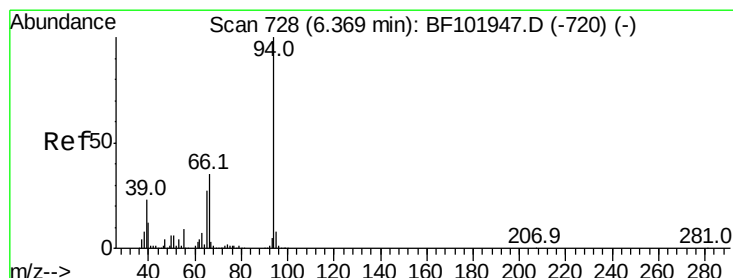
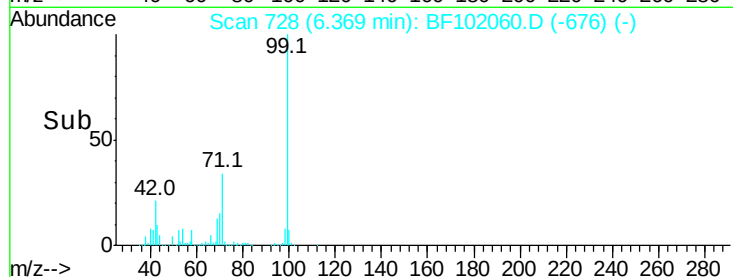
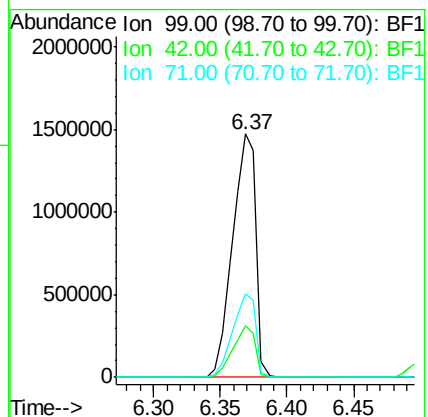
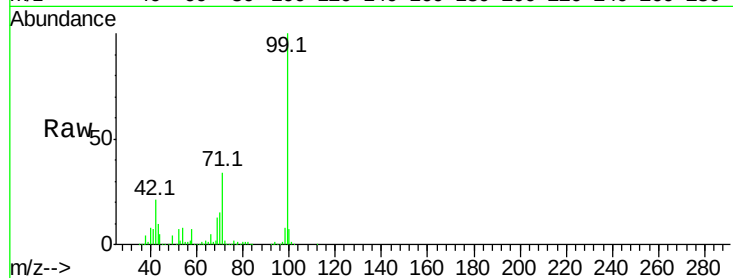
Tot Ion: 99 Resp: 1811704

Ion Ratio Lower Upper

99 100

42 21.0 14.5 21.7

71 34.5 25.4 38.0



#10

Phenol

Concen: 4.720 ng

RT: 6.38 min Scan# 730

Delta R.T. 0.01 min

Lab File: BF102060.D

Acq: 12 Jan 2018 23:06

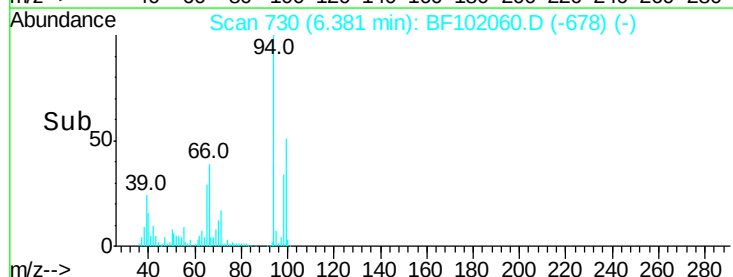
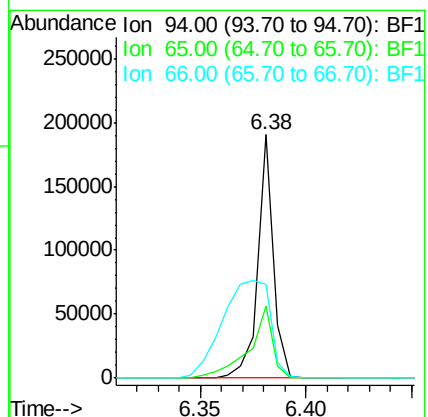
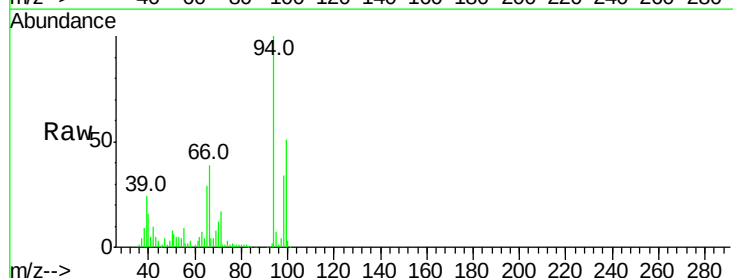
Tgt Ion: 94 Resp: 98149

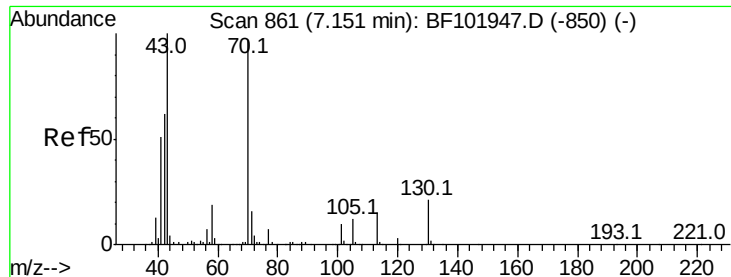
Ion Ratio Lower Upper

94 100

65 29.4 7.9 47.9

66 38.6 16.2 56.2





#19

n-Nitroso-di-n-propylamine

Concen: 12.427 ng

RT: 7.30 min Scan# 886

Delta R.T. 0.15 min

Lab File: BF102060.D

Acq: 12 Jan 2018 23:06

Instrument :

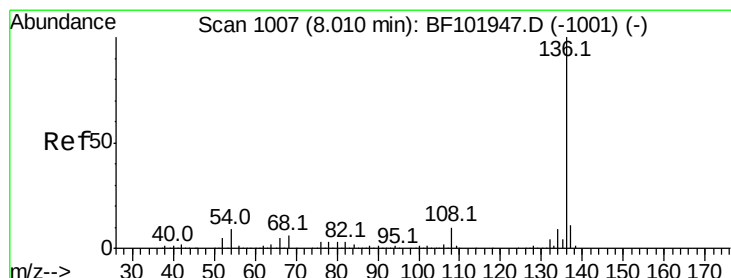
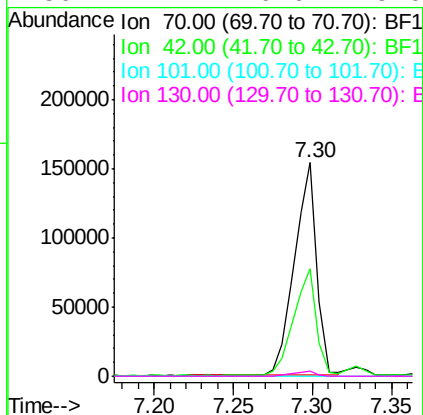
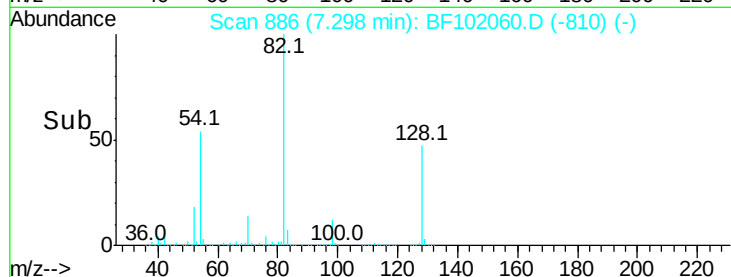
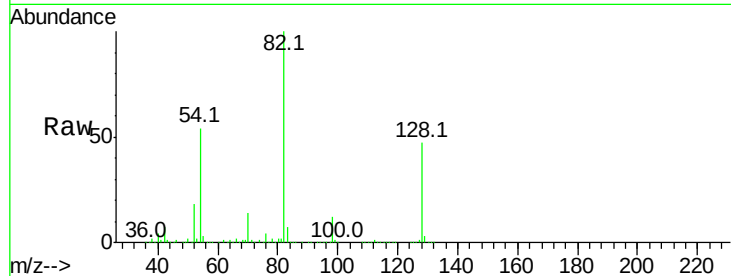
BNA\_F

ClientSampled :

Tot Ion: 70 Resp: 149855

Ion Ratio Lower Upper

|     |      |      |      |
|-----|------|------|------|
| 70  | 100  |      |      |
| 42  | 50.2 | 47.5 | 71.3 |
| 101 | 0.0  | 7.4  | 11.2 |
| 130 | 2.2  | 16.6 | 25.0 |



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.01 min Scan# 1007

Delta R.T. 0.00 min

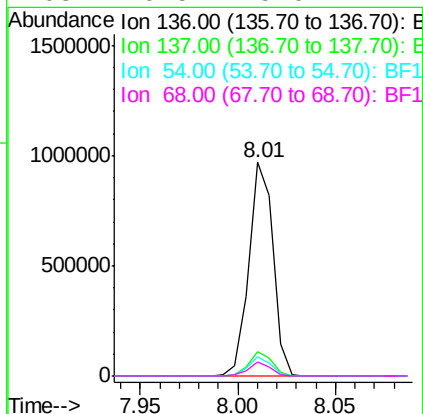
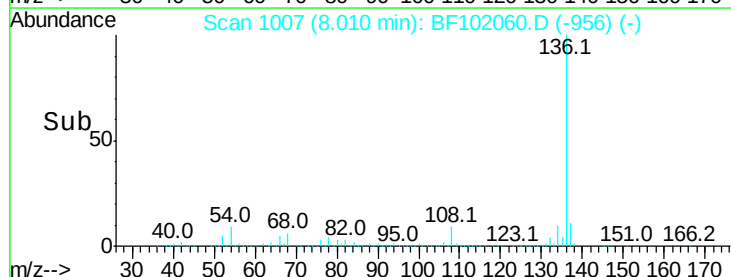
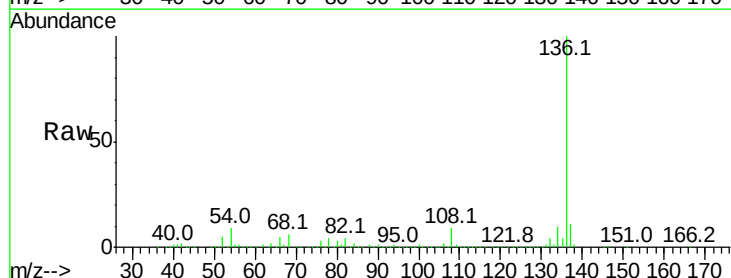
Lab File: BF102060.D

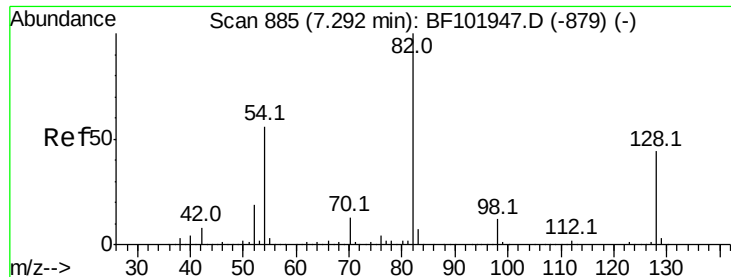
Acq: 12 Jan 2018 23:06

Tgt Ion: 136 Resp: 834437

Ion Ratio Lower Upper

|     |      |     |      |
|-----|------|-----|------|
| 136 | 100  |     |      |
| 137 | 11.4 | 8.9 | 13.3 |
| 54  | 9.0  | 6.6 | 9.8  |
| 68  | 6.5  | 5.0 | 7.4  |



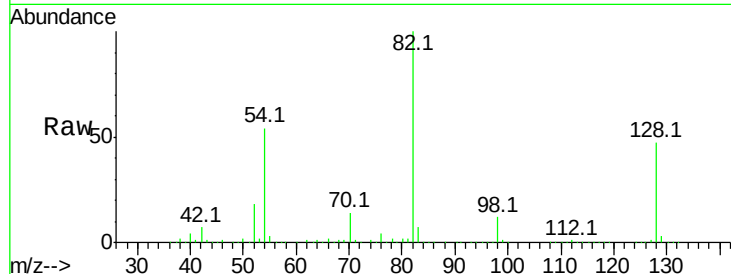


#23  
 Nitrobenzene-d5  
 Concen: 76.658 ng  
 RT: 7.30 min Scan# 886  
 Delta R.T. 0.00 min  
 Lab File: BF102060.D  
 Acq: 12 Jan 2018 23:06

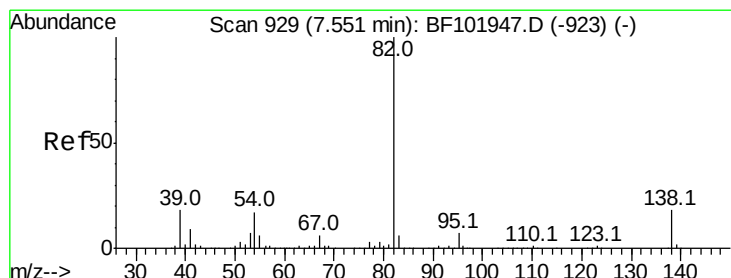
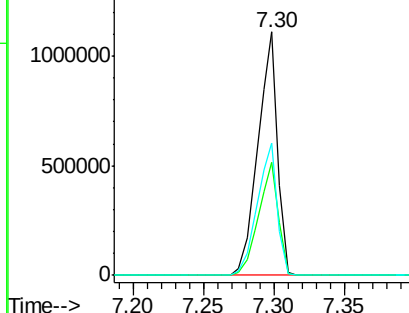
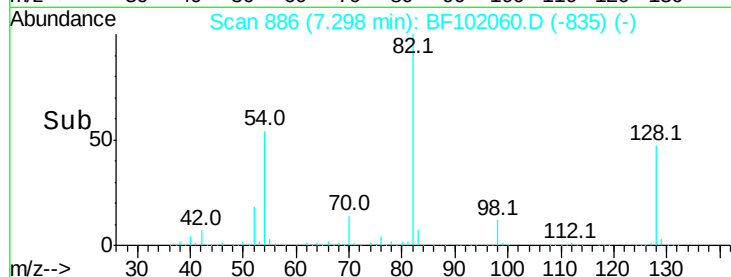
Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion: 82 Resp: 1088527  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 46.5  | 36.1  | 54.1  |
| 54  | 54.5  | 41.4  | 62.2  |



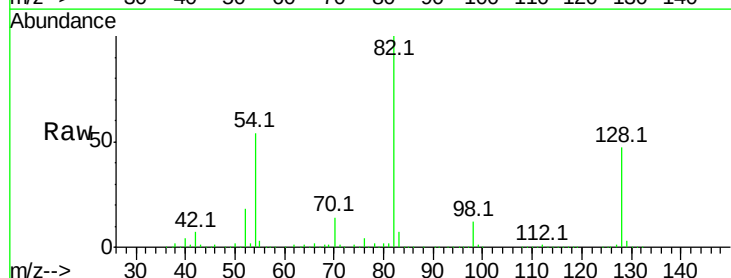
Abundance Ion 82.00 (81.70 to 82.70): BF1  
 Ion 128.00 (127.70 to 128.70): BF1  
 Ion 54.00 (53.70 to 54.70): BF1



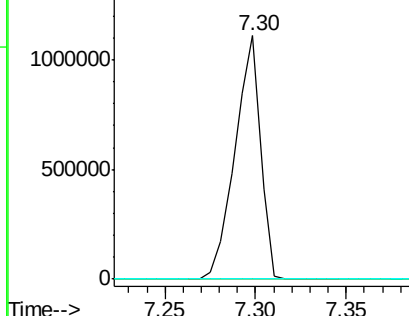
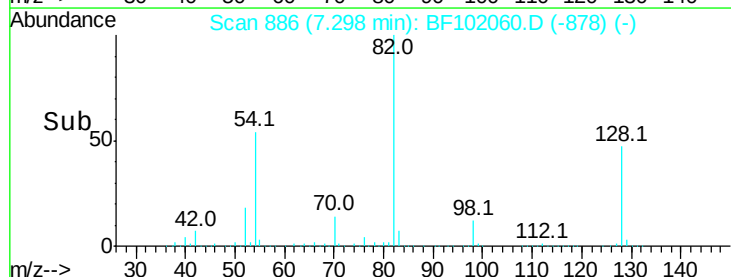
#25  
 Isophorone  
 Concen: 38.731 ng  
 RT: 7.30 min Scan# 886  
 Delta R.T. -0.25 min  
 Lab File: BF102060.D  
 Acq: 12 Jan 2018 23:06

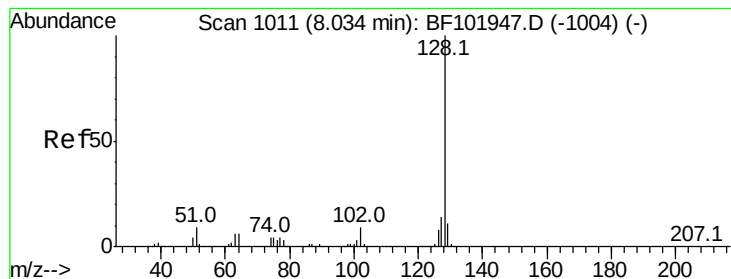
Tgt Ion: 82 Resp: 1086691  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 95  | 0.1   | 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: 6.384 ng

RT: 8.03 min Scan# 1011

Delta R.T. 0.00 min

Lab File: BF102060.D

Acq: 12 Jan 2018 23:06

Instrument :

BNA\_F

ClientSampled :

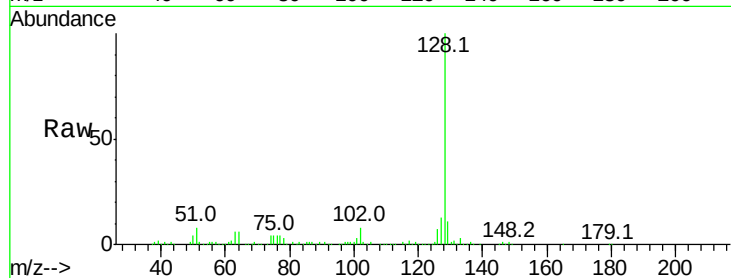
Tot Ion:128 Resp: 266168

Ion Ratio Lower Upper

128 100

129 11.2 8.8 13.2

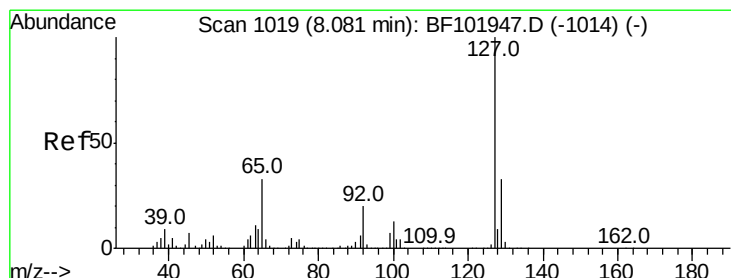
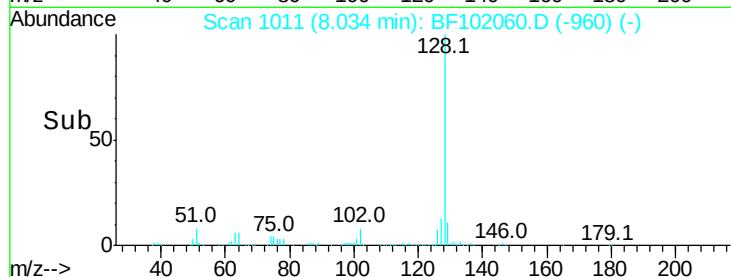
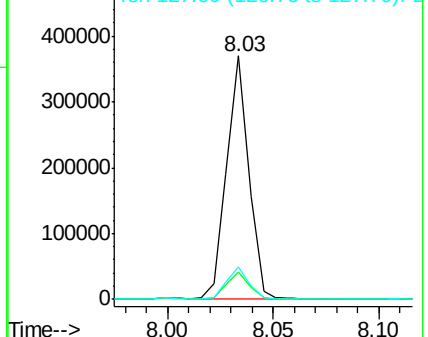
127 13.2 10.9 16.3



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



#33

4-Chloroaniline

Concen: 2.039 ng

RT: 8.03 min Scan# 1011

Delta R.T. -0.05 min

Lab File: BF102060.D

Acq: 12 Jan 2018 23:06

Tgt Ion:127 Resp: 36291

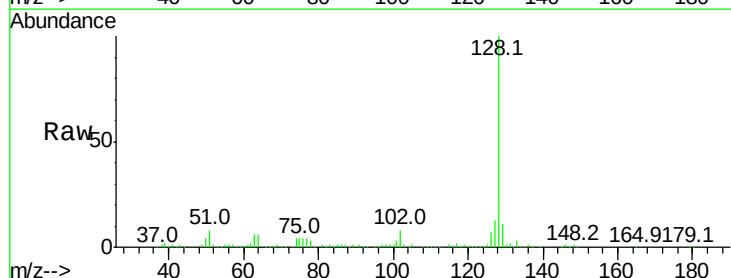
Ion Ratio Lower Upper

127 100

129 85.1 25.9 38.9#

65 0.0 25.0 37.4#

92 1.3 15.2 22.8#

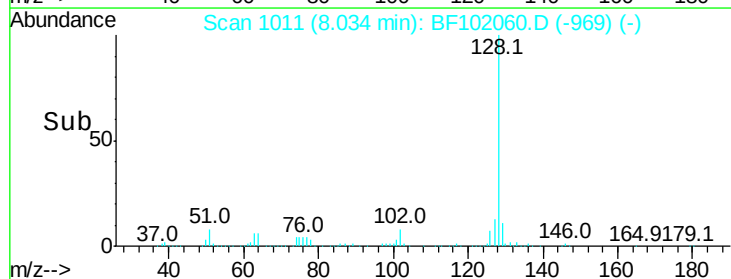
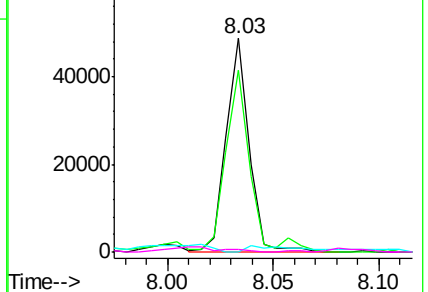


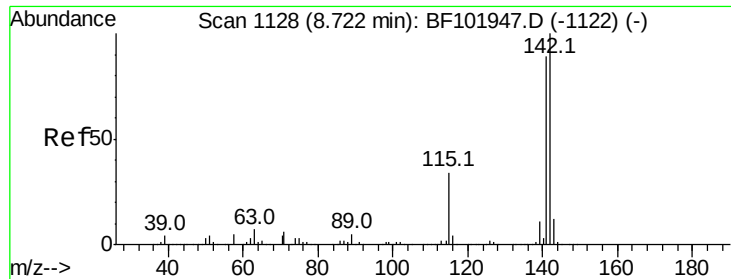
Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 65.00 (64.70 to 65.70): BF1

Ion 92.00 (91.70 to 92.70): BF1

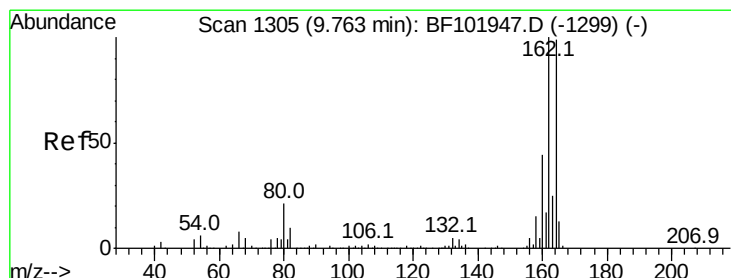
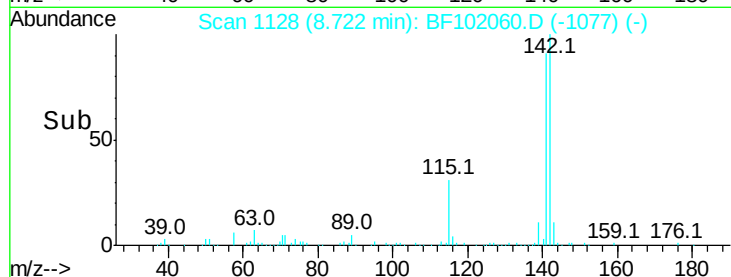
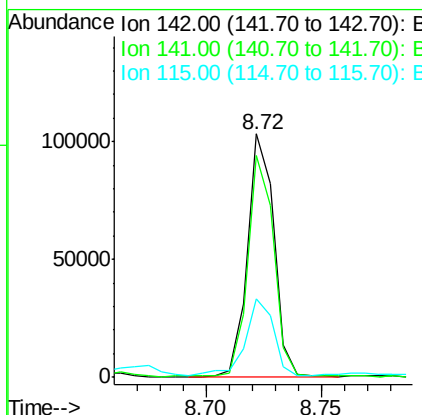
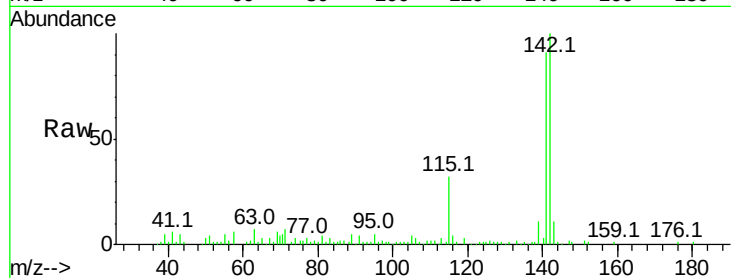




#37  
 2-Methylnaphthalene  
 Concen: 3.041 ng  
 RT: 8.72 min Scan# 1128  
 Delta R.T. 0.00 min  
 Lab File: BF102060.D  
 Acq: 12 Jan 2018 23:06

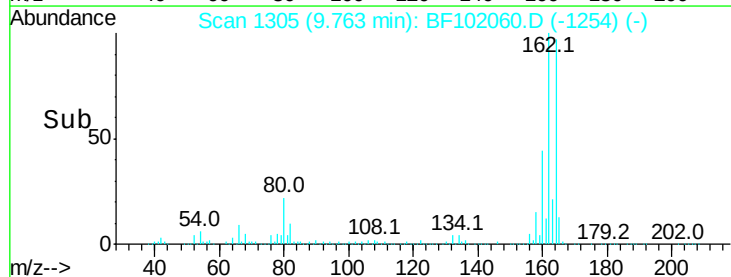
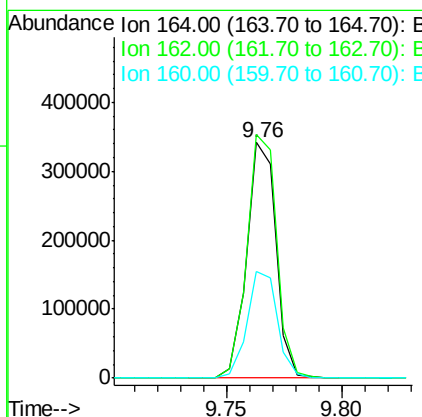
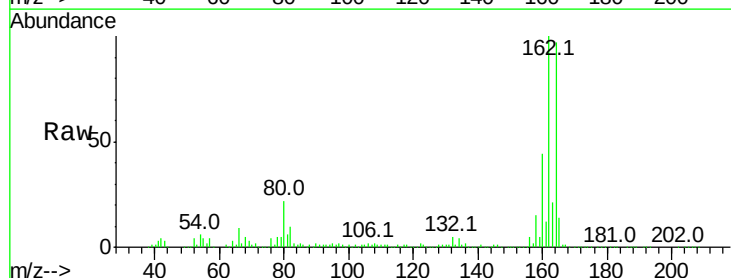
Instrument :  
 BNA\_F  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 91.3  | 70.8  | 106.2 |
| 115     | 32.2  | 26.1  | 39.1  |

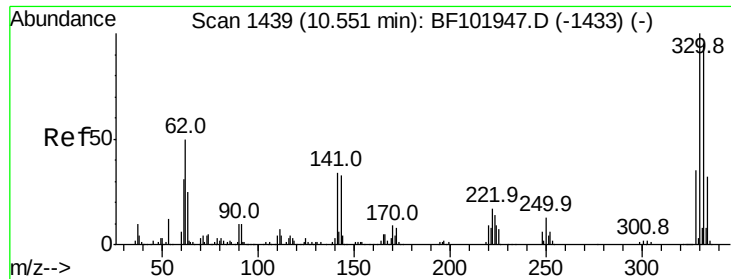


#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.76 min Scan# 1305  
 Delta R.T. 0.00 min  
 Lab File: BF102060.D  
 Acq: 12 Jan 2018 23:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 103.4 | 86.1  | 129.1 |
| 160     | 45.4  | 38.3  | 57.5  |



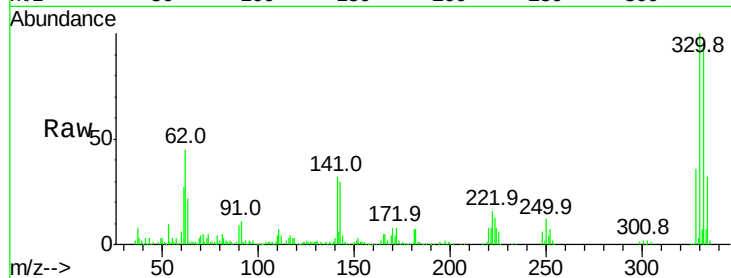




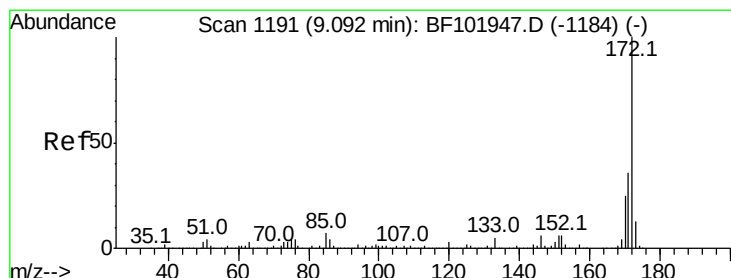
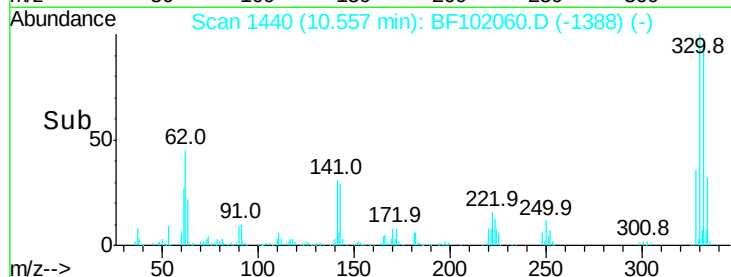
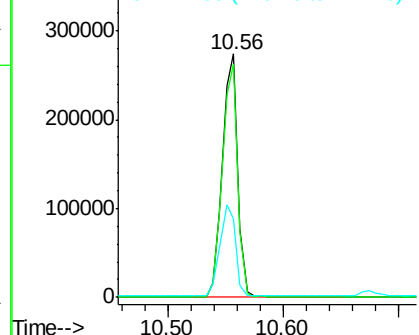
#41  
 2,4,6-Tribromophenol  
 Concen: 95.697 ng  
 RT: 10.56 min Scan# 1440  
 Delta R.T. 0.01 min  
 Lab File: BF102060.D  
 Acq: 12 Jan 2018 23:06

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:330 Resp: 252823  
 Ion Ratio Lower Upper  
 330 100  
 332 95.7 77.0 115.6  
 141 37.7 29.9 44.9

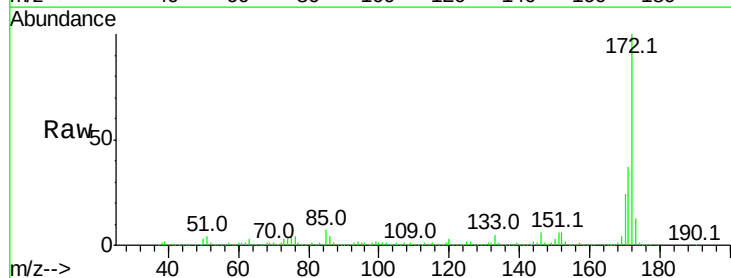


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

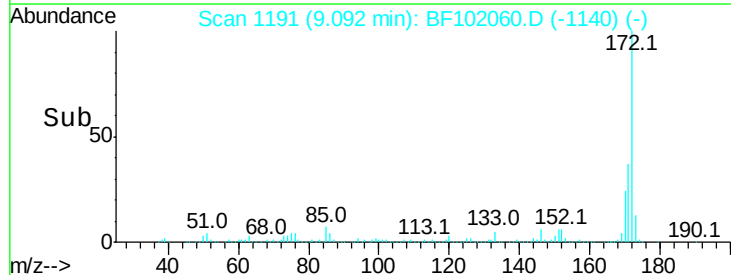
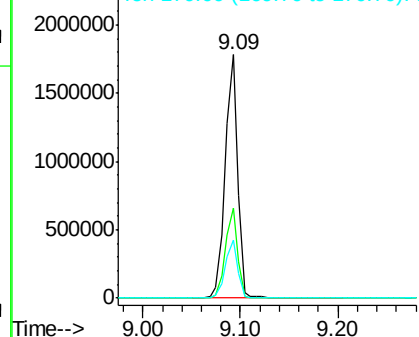


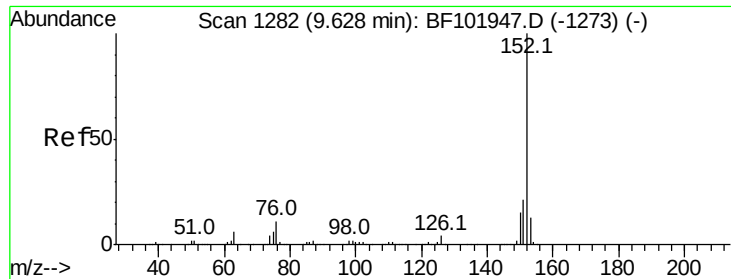
#44  
 2-Fluorobiphenyl  
 Concen: 81.503 ng  
 RT: 9.09 min Scan# 1191  
 Delta R.T. 0.00 min  
 Lab File: BF102060.D  
 Acq: 12 Jan 2018 23:06

Tgt Ion:172 Resp: 1579337  
 Ion Ratio Lower Upper  
 172 100  
 171 37.0 29.7 44.5  
 170 24.0 19.6 29.4



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

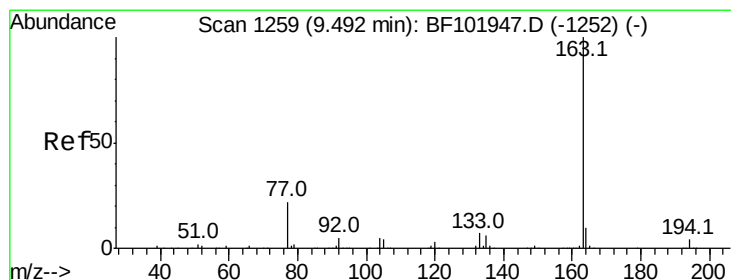
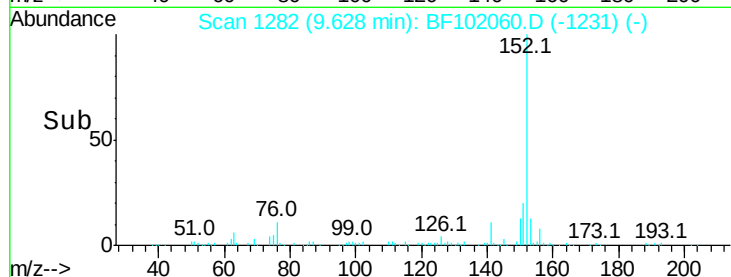
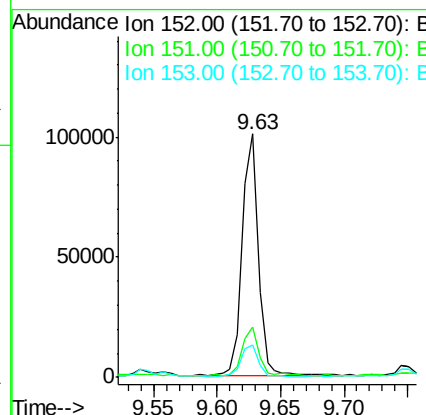
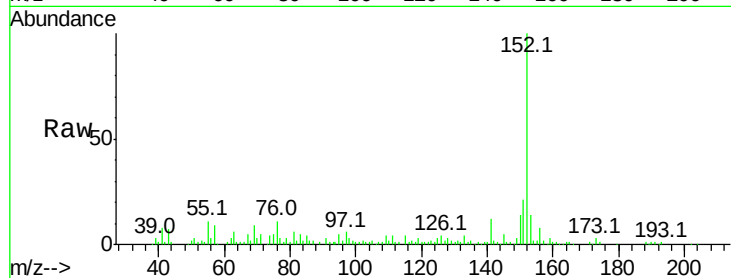




#48  
Acenaphthylene  
Concen: 2.678 ng  
RT: 9.63 min Scan# 1282  
Delta R.T. 0.00 min  
Lab File: BF102060.D  
Acq: 12 Jan 2018 23:06

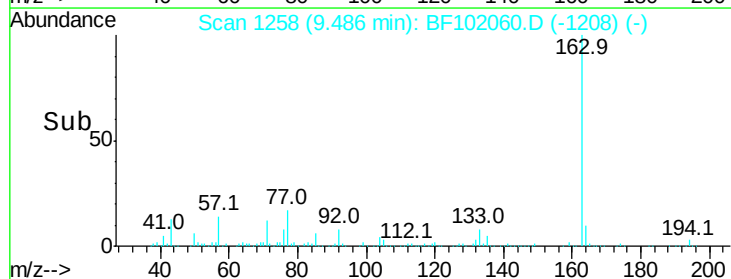
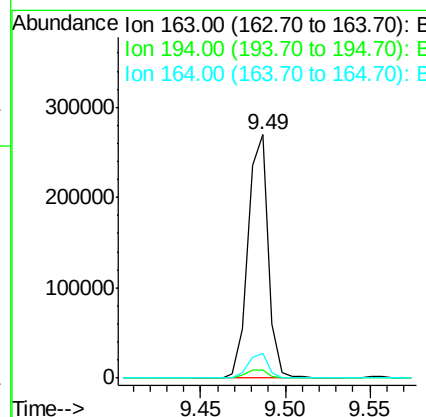
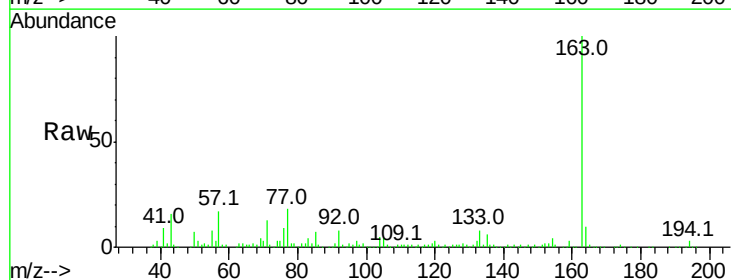
Instrument :  
BNA\_F  
ClientSampleId :

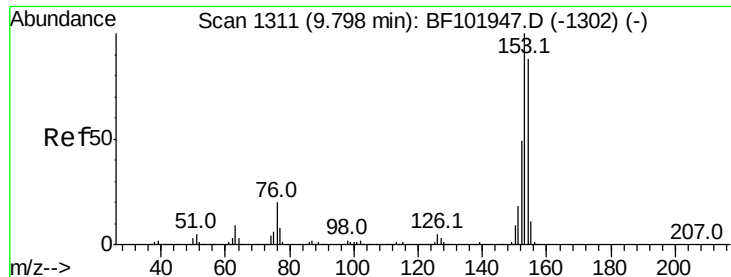
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.9  | 16.3  | 24.5  |
| 153     | 13.5  | 10.7  | 16.1  |



#49  
Dimethylphthalate  
Concen: 9.170 ng  
RT: 9.49 min Scan# 1258  
Delta R.T. -0.01 min  
Lab File: BF102060.D  
Acq: 12 Jan 2018 23:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.4   | 2.7   | 4.1   |
| 164     | 10.0  | 8.2   | 12.2  |





#51

Acenaphthene

Concen: 4.554 ng

RT: 9.80 min Scan# 1311

Delta R.T. 0.00 min

Lab File: BF102060.D

Acq: 12 Jan 2018 23:06

Instrument :

BNA\_F

ClientSampled :

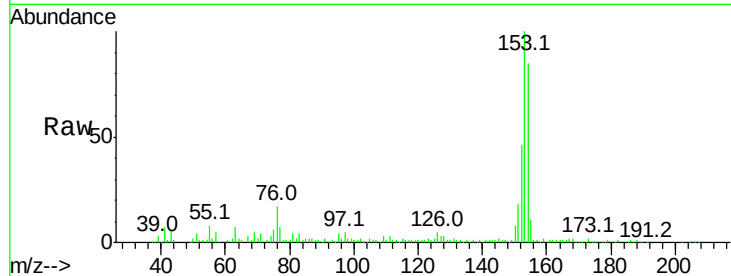
Tot Ion:154 Resp: 91025

Ion Ratio Lower Upper

154 100

153 117.6 91.2 136.8

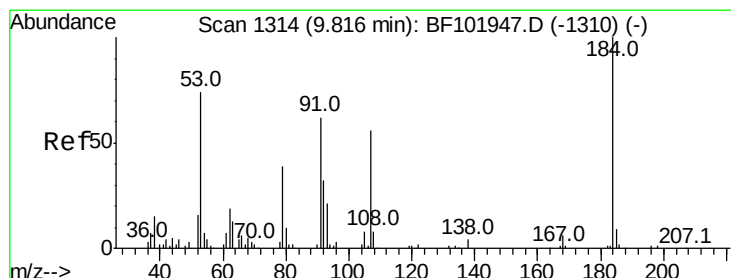
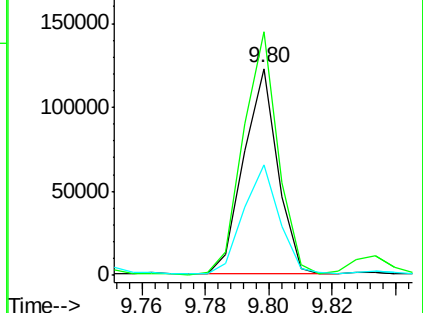
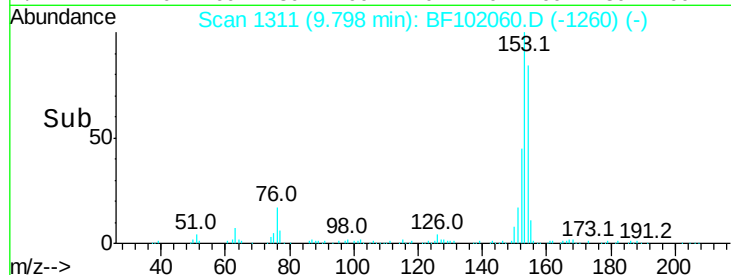
152 53.7 43.8 65.8



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



#53

2,4-Dinitrophenol

Concen: 8.719 ng

RT: 10.02 min Scan# 1349

Delta R.T. 0.20 min

Lab File: BF102060.D

Acq: 12 Jan 2018 23:06

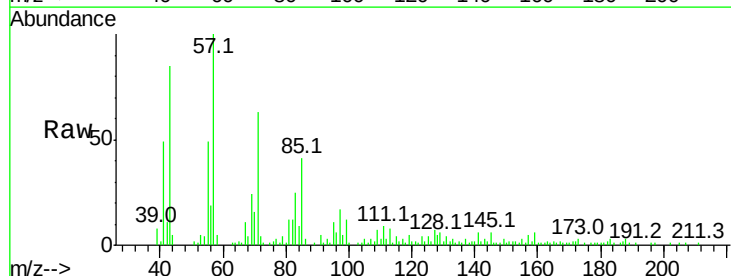
Tgt Ion:184 Resp: 128

Ion Ratio Lower Upper

184 100

63 151.6 54.2 81.2#

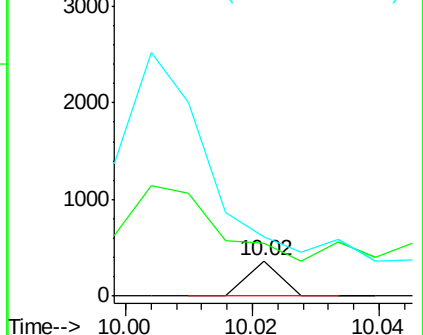
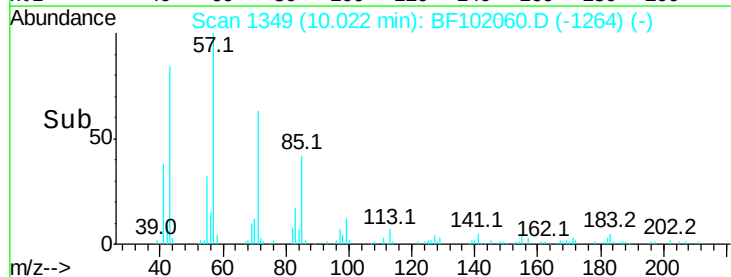
154 167.3 184.0 276.0#

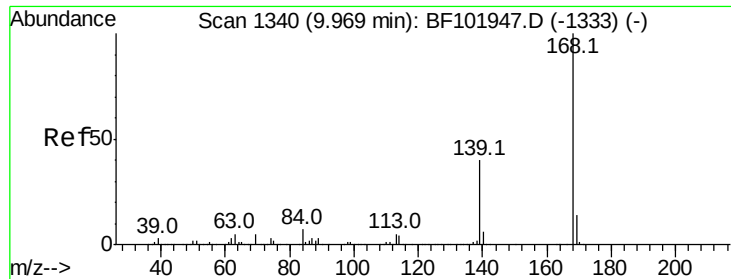


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 154.00 (153.70 to 154.70): E





#54

Dibenzofuran

Concen: 4.112 ng

RT: 9.97 min Scan# 1340

Delta R.T. 0.00 min

Lab File: BF102060.D

Acq: 12 Jan 2018 23:06

Instrument :

BNA\_F

ClientSampleId :

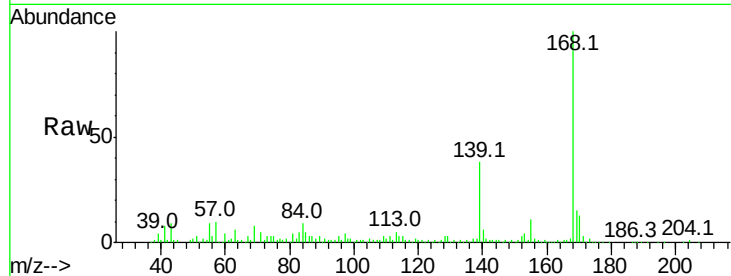
Tot Ion:168 Resp: 112795

Ion Ratio Lower Upper

168 100

139 38.3 30.1 45.1

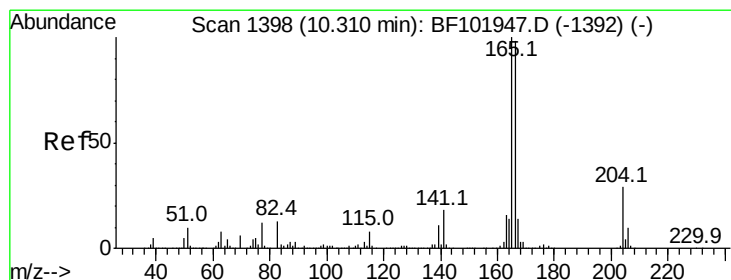
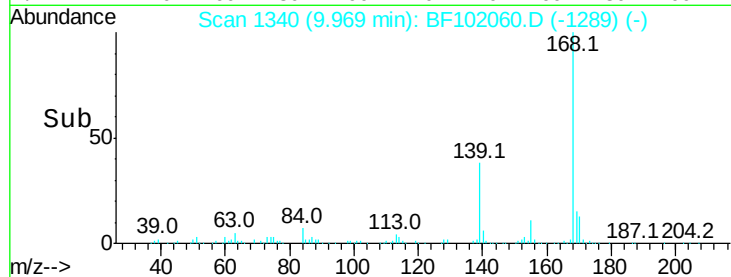
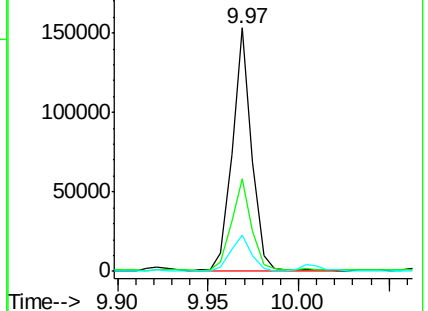
169 15.0 10.9 16.3



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#57

Fluorene

Concen: 7.075 ng

RT: 10.31 min Scan# 1398

Delta R.T. 0.00 min

Lab File: BF102060.D

Acq: 12 Jan 2018 23:06

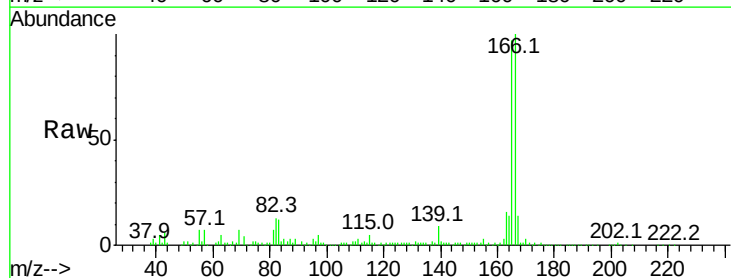
Tgt Ion:166 Resp: 134162

Ion Ratio Lower Upper

166 100

165 97.2 79.8 119.8

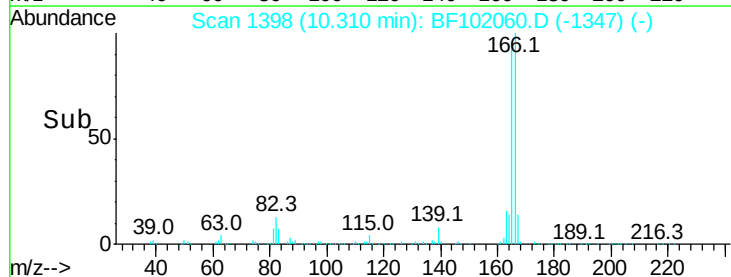
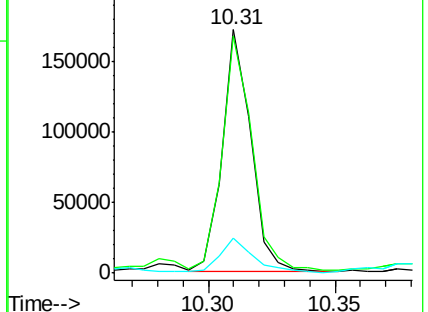
167 14.2 10.6 16.0

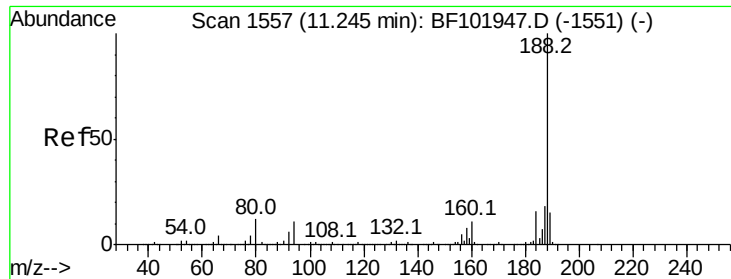


Abundance Ion 166.00 (165.70 to 166.70): E

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: 11.25 min Scan# 1558

Delta R.T. 0.01 min

Lab File: BF102060.D

Acq: 12 Jan 2018 23:06

Instrument :

BNA\_F

ClientSampleId :

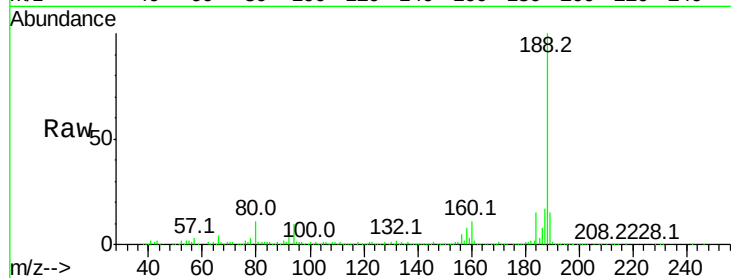
Tot Ion:188 Resp: 435937

Ion Ratio Lower Upper

188 100

94 10.4 8.5 12.7

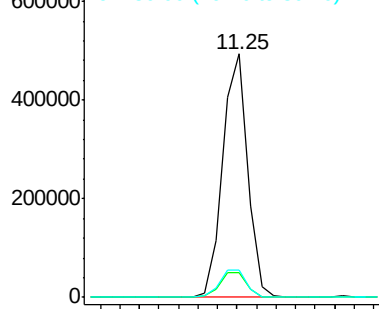
80 11.2 9.2 13.8



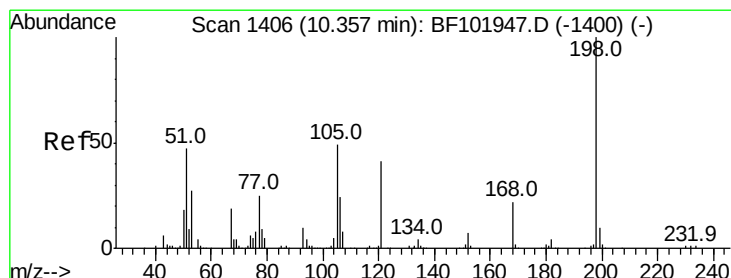
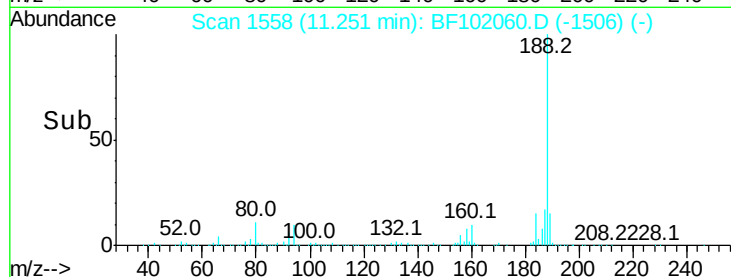
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



Time-->



#64

4,6-Dinitro-2-methylphenol

Concen: 5.702 ng

RT: 10.47 min Scan# 1426

Delta R.T. 0.12 min

Lab File: BF102060.D

Acq: 12 Jan 2018 23:06

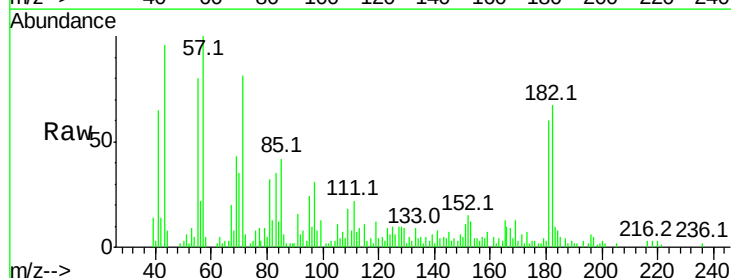
Tgt Ion:198 Resp: 108

Ion Ratio Lower Upper

198 100

51 383.9 37.7 77.7#

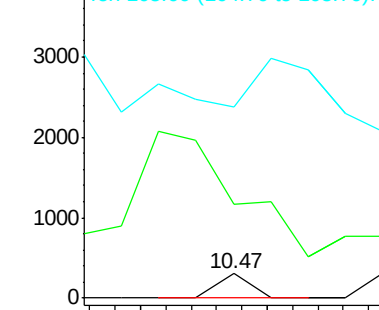
105 777.7 36.3 76.3#



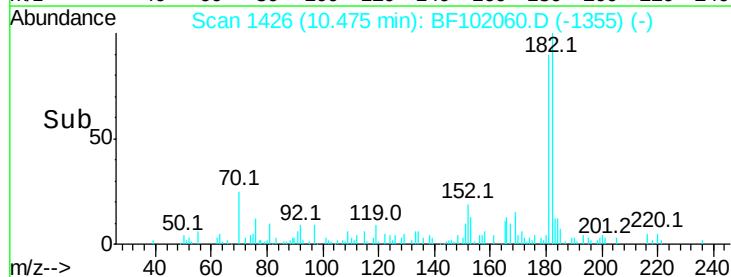
Abundance Ion 198.00 (197.70 to 198.70): E

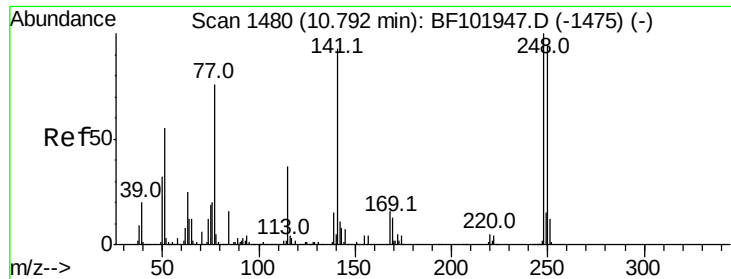
Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E



Time-->

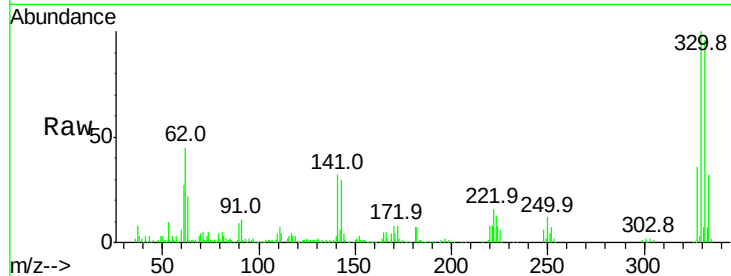




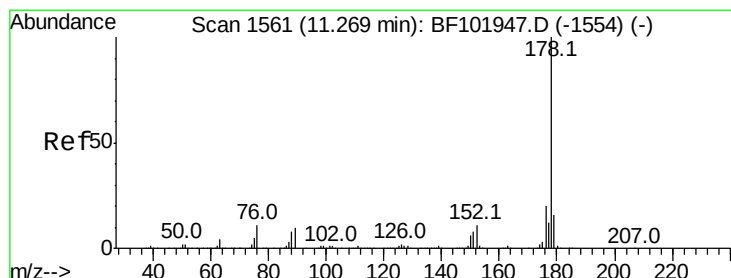
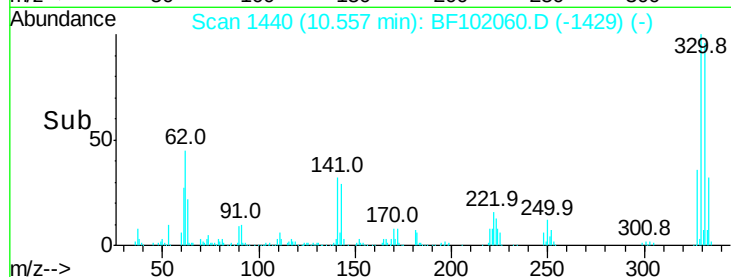
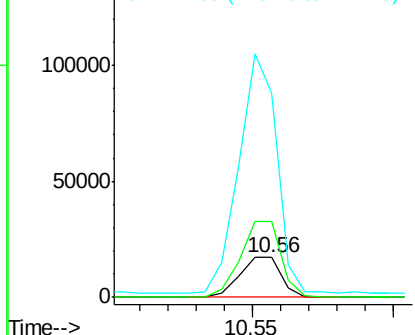
#66  
4-Bromophenyl-phenylether  
Concen: 3.734 ng  
RT: 10.56 min Scan# 1440  
Delta R.T. -0.24 min  
Lab File: BF102060.D  
Acq: 12 Jan 2018 23:06

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:248 Resp: 17191  
Ion Ratio Lower Upper  
248 100  
250 189.8 76.9 115.3#  
141 513.1 74.4 111.6#

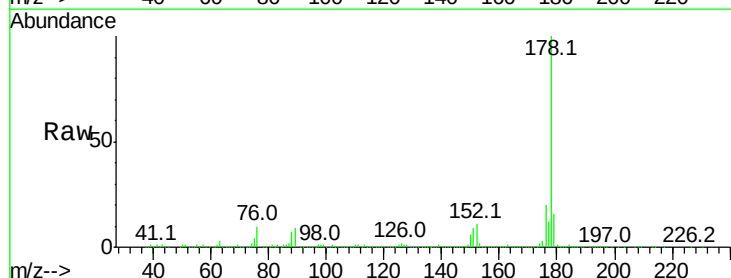


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

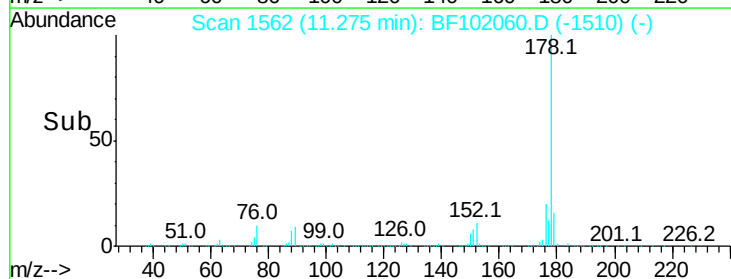
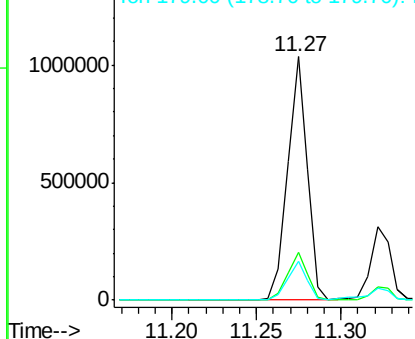


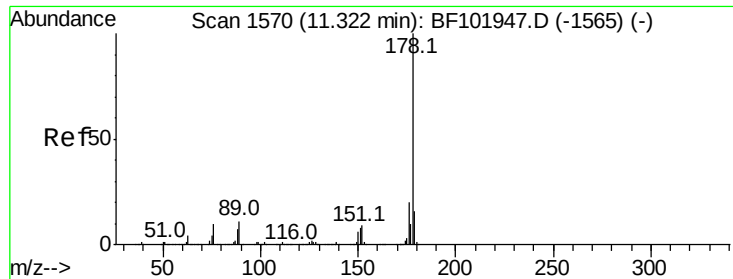
#70  
Phenanthrene  
Concen: 33.148 ng  
RT: 11.27 min Scan# 1562  
Delta R.T. 0.01 min  
Lab File: BF102060.D  
Acq: 12 Jan 2018 23:06

Tgt Ion:178 Resp: 844110  
Ion Ratio Lower Upper  
178 100  
176 19.9 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

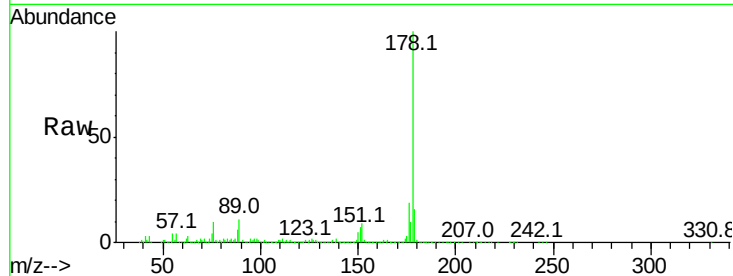




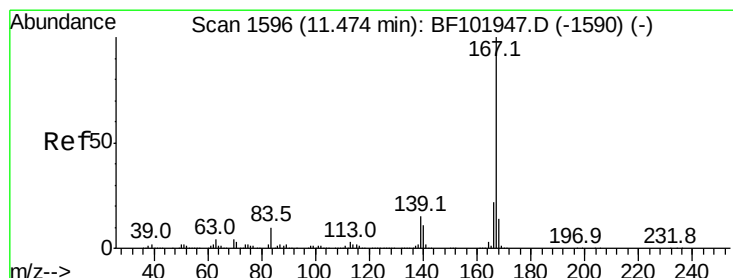
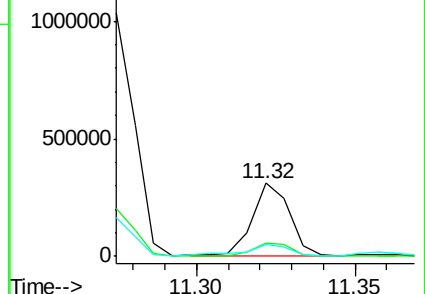
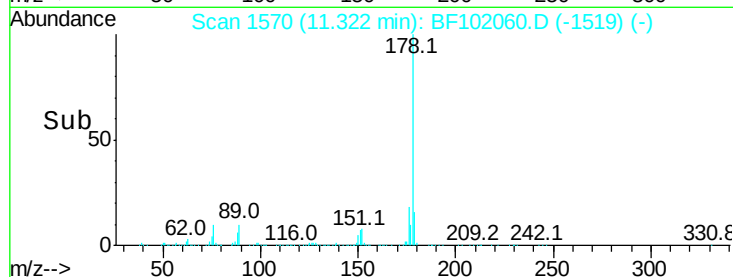
#71  
 Anthracene  
 Concen: 9.719 ng  
 RT: 11.32 min Scan# 1570  
 Delta R.T. 0.00 min  
 Lab File: BF102060.D  
 Acq: 12 Jan 2018 23:06

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.5  | 15.4  | 23.2  |
| 179     | 16.2  | 12.6  | 19.0  |

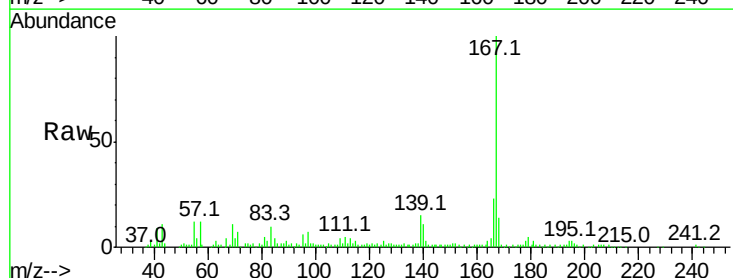


Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 176.00 (175.70 to 176.70): E  
 Ion 179.00 (178.70 to 179.70): E

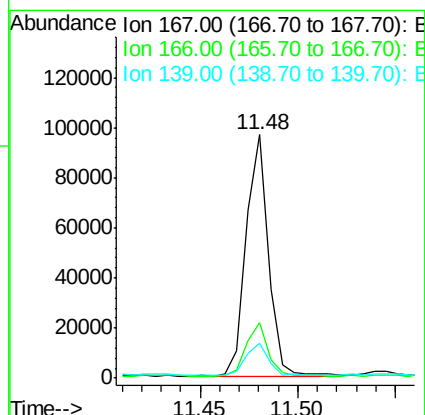
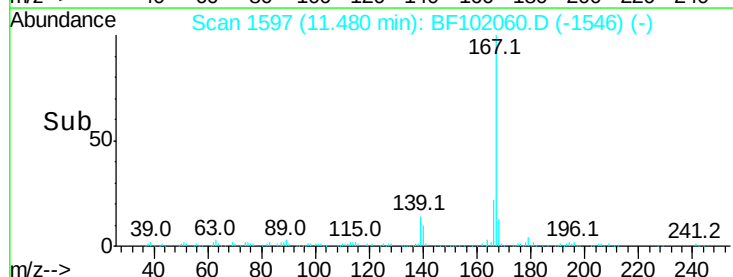


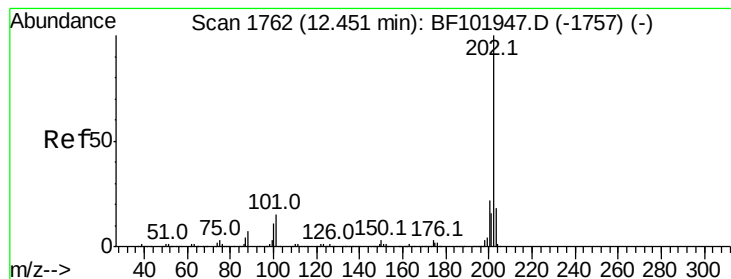
#72  
 Carbazole  
 Concen: 3.044 ng  
 RT: 11.48 min Scan# 1597  
 Delta R.T. 0.00 min  
 Lab File: BF102060.D  
 Acq: 12 Jan 2018 23:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 22.6  | 17.6  | 26.4  |
| 139     | 14.6  | 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: 37.582 ng

RT: 12.46 min Scan# 1764

Delta R.T. 0.01 min

Lab File: BF102060.D

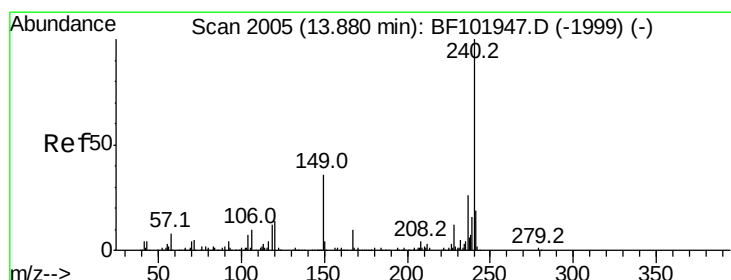
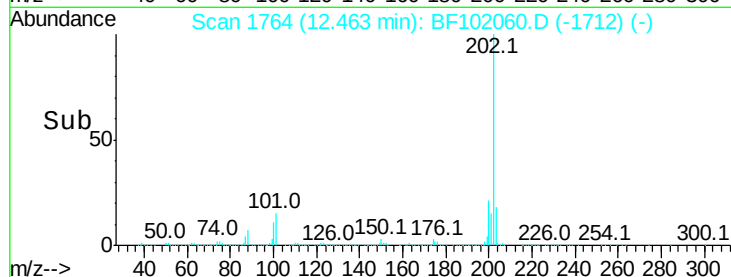
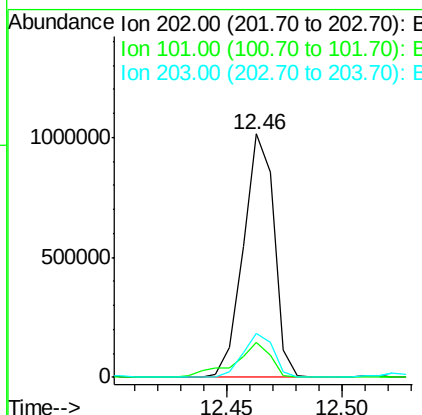
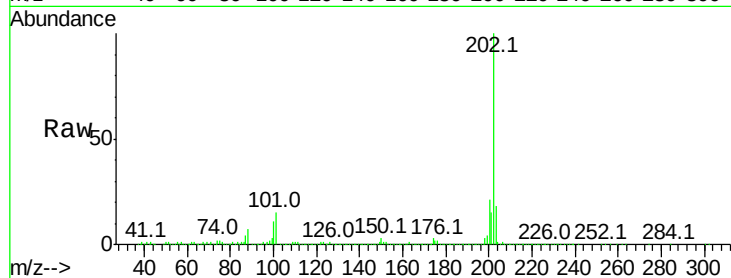
Acq: 12 Jan 2018 23:06

Instrument :

BNA\_F

ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 202   | Resp: | 941577 |
| Ion      | Ratio | Lower | Upper  |
| 202      | 100   |       |        |
| 101      | 14.5  | 0.0   | 34.1   |
| 203      | 17.8  | 0.0   | 38.1   |



#75

Chrysene-d12

Concen: 20.000 ng

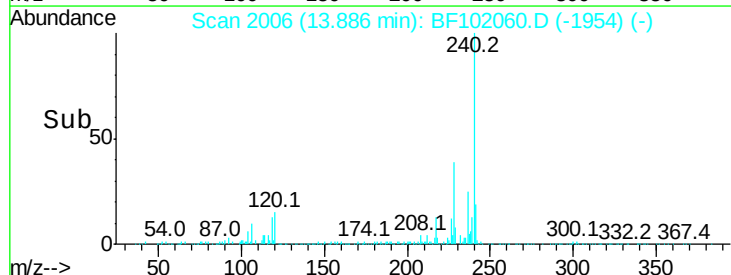
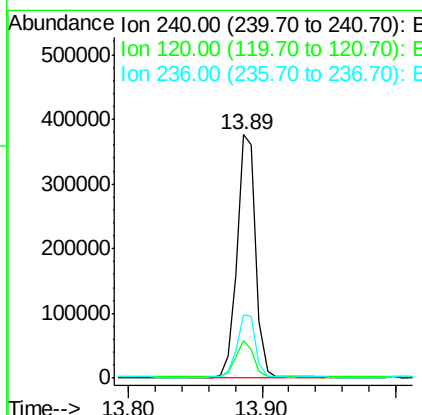
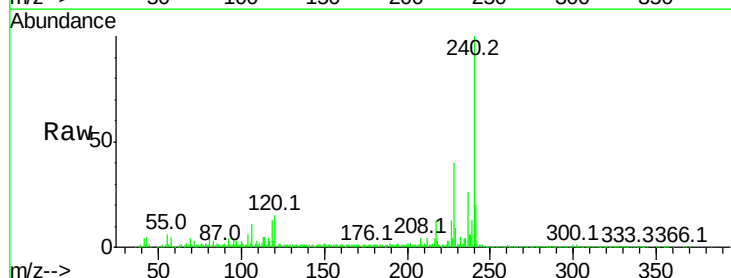
RT: 13.89 min Scan# 2006

Delta R.T. 0.01 min

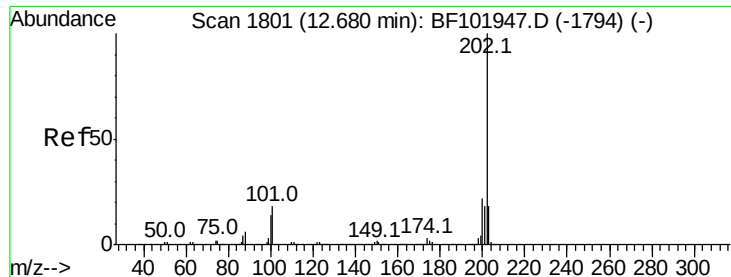
Lab File: BF102060.D

Acq: 12 Jan 2018 23:06

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 240   | Resp: | 366197 |
| Ion      | Ratio | Lower | Upper  |
| 240      | 100   |       |        |
| 120      | 15.2  | 9.5   | 14.3#  |
| 236      | 25.9  | 20.7  | 31.1   |







#77

Pvrene

Concen: 26.596 ng

RT: 12.69 min Scan# 1803

Delta R.T. 0.01 min

Lab File: BF102060.D

Acq: 12 Jan 2018 23:06

Instrument :

BNA\_F

ClientSampleId :

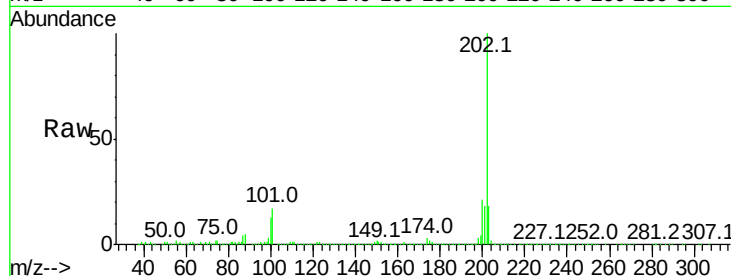
Tot Ion:202 Resp: 860889

Ion Ratio Lower Upper

202 100

200 21.5 17.4 26.2

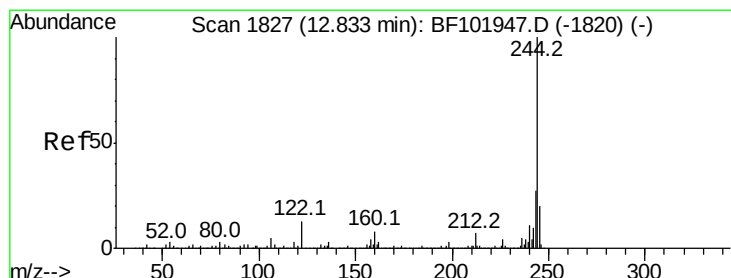
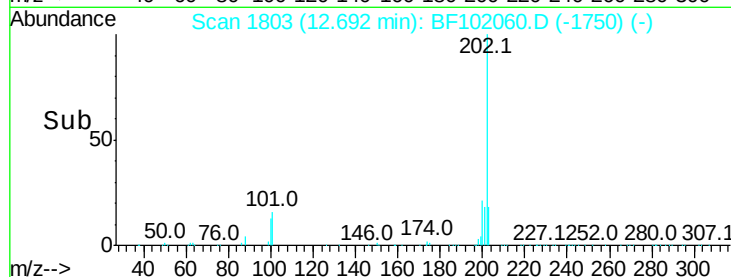
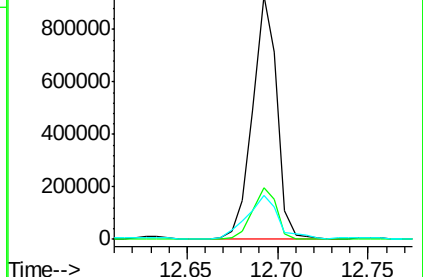
203 18.2 14.3 21.5



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: 63.226 ng

RT: 12.84 min Scan# 1828

Delta R.T. 0.01 min

Lab File: BF102060.D

Acq: 12 Jan 2018 23:06

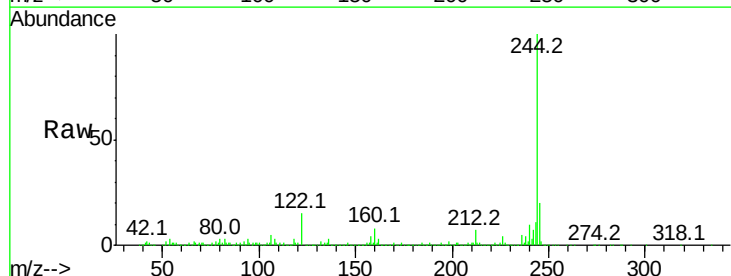
Tgt Ion:244 Resp: 1115136

Ion Ratio Lower Upper

244 100

212 7.0 5.4 8.0

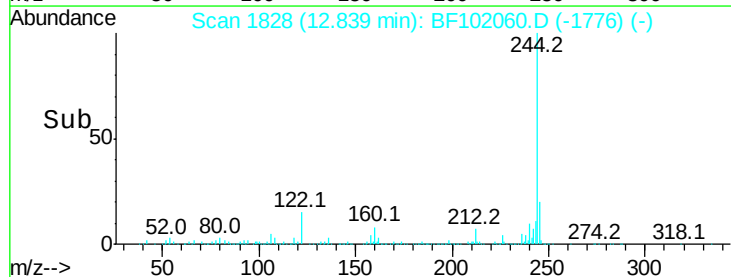
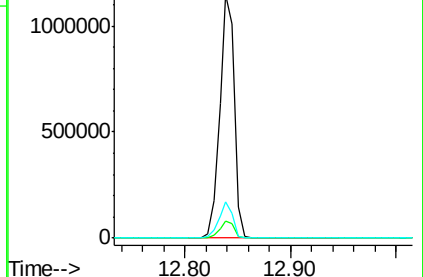
122 14.7 11.0 16.4

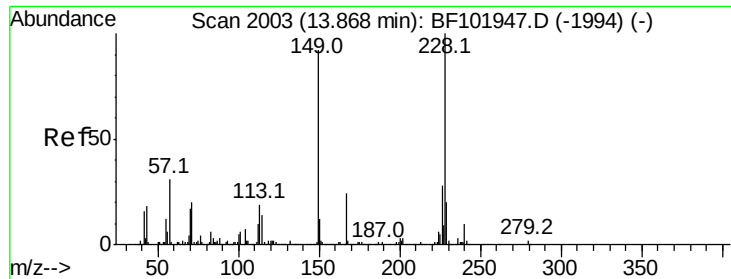


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 16.281 ng

RT: 13.88 min Scan# 2005

Delta R.T. 0.01 min

Lab File: BF102060.D

Acq: 12 Jan 2018 23:06

Instrument :

BNA\_F

ClientSampled :

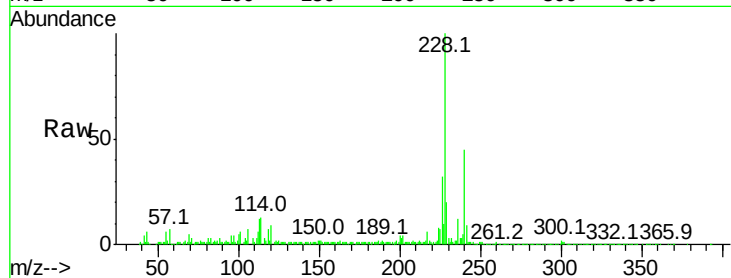
Tot Ion:228 Resp: 380406

Ion Ratio Lower Upper

228 100

226 31.7 22.6 33.8

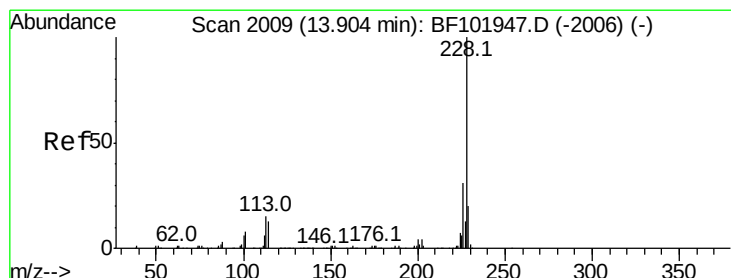
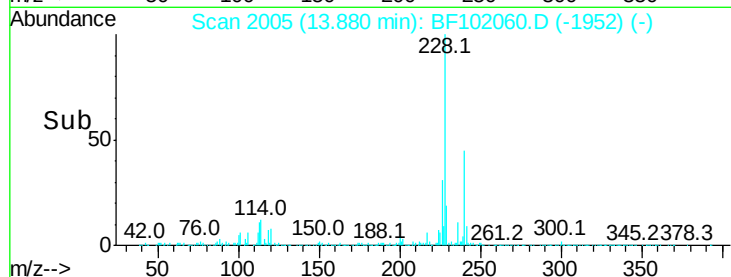
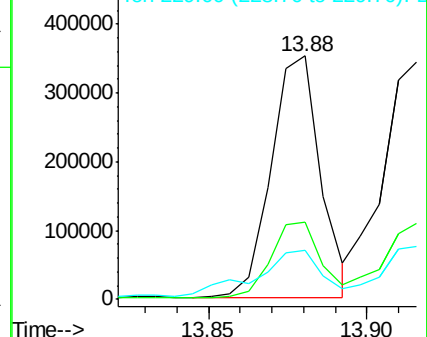
229 20.1 15.8 23.6



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: 14.564 ng

RT: 13.92 min Scan# 2011

Delta R.T. 0.01 min

Lab File: BF102060.D

Acq: 12 Jan 2018 23:06

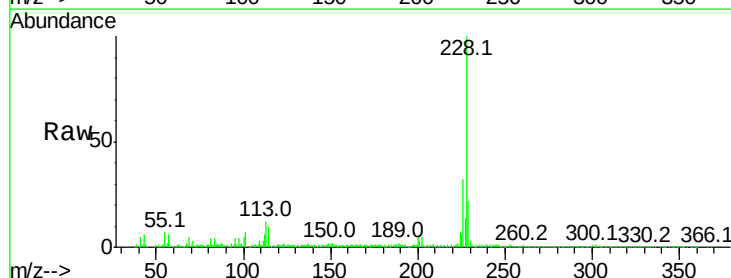
Tgt Ion:228 Resp: 354814

Ion Ratio Lower Upper

228 100

226 31.9 25.0 37.6

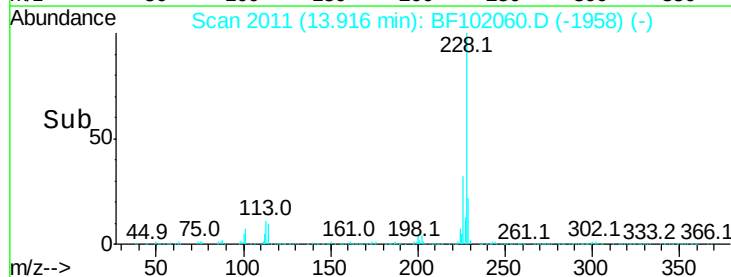
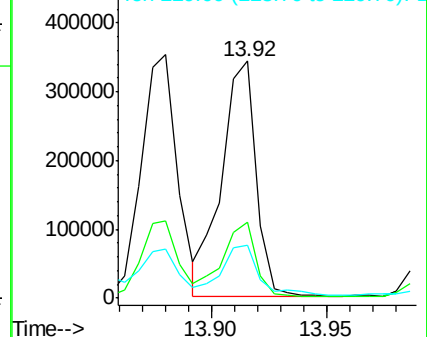
229 22.5 16.2 24.4

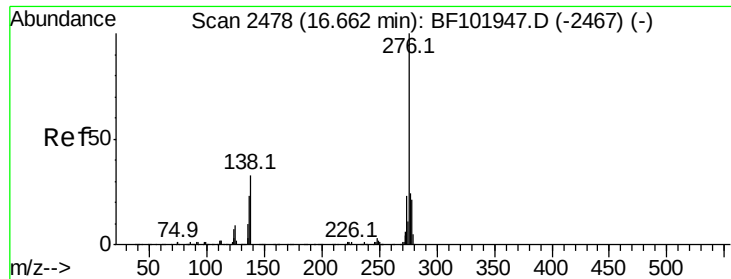


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

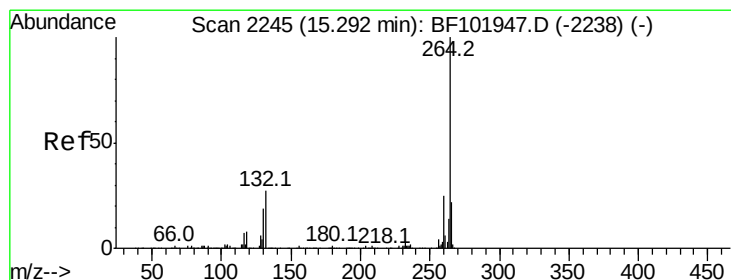
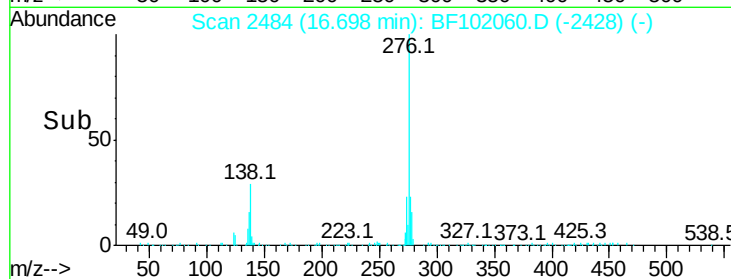
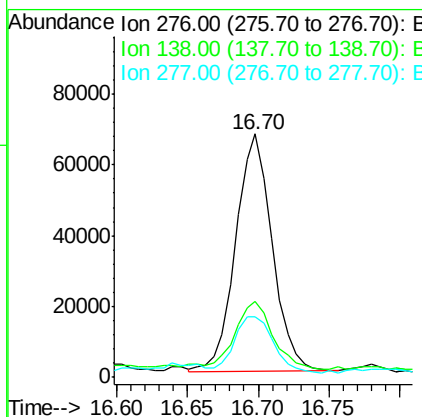
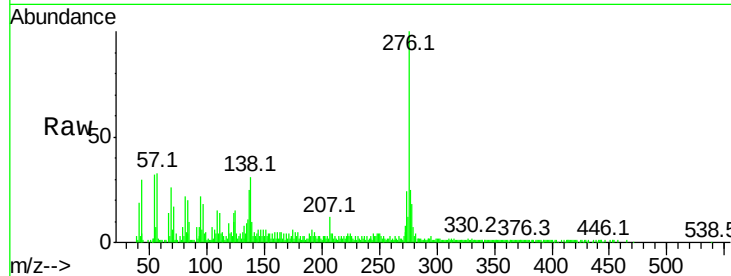




#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 6.848 ng  
 RT: 16.70 min Scan# 2484  
 Delta R.T. 0.03 min  
 Lab File: BF102060.D  
 Acq: 12 Jan 2018 23:06

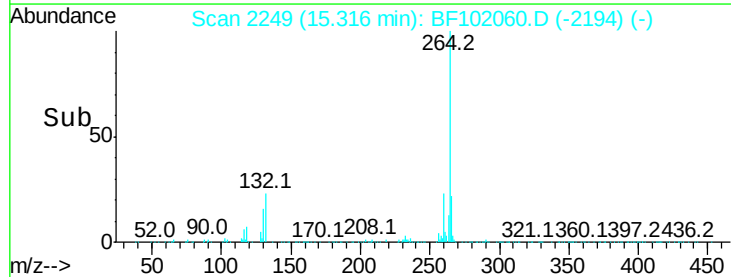
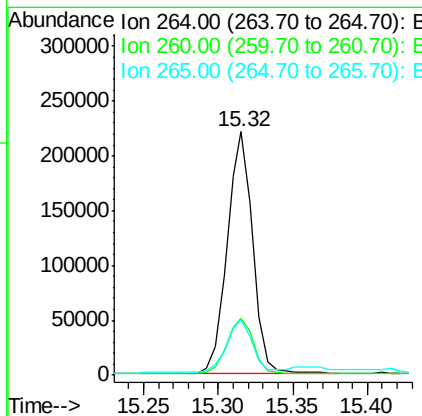
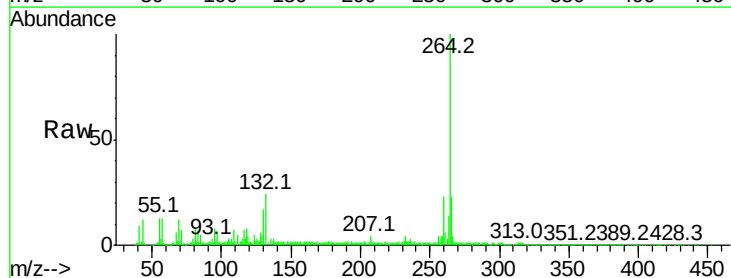
Instrument :  
 BNA\_F  
 ClientSampleId :

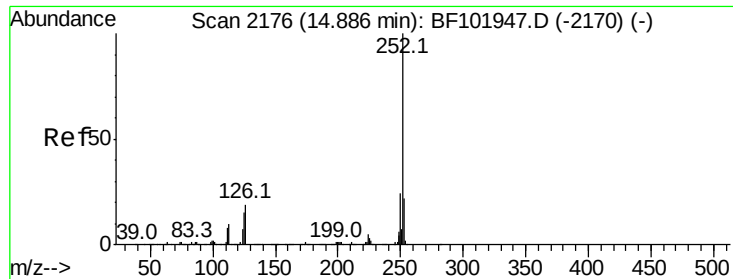
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 31.1  | 25.0  | 37.6  |
| 277     | 25.2  | 20.1  | 30.1  |



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.32 min Scan# 2249  
 Delta R.T. 0.02 min  
 Lab File: BF102060.D  
 Acq: 12 Jan 2018 23:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.4  | 19.2  | 28.8  |
| 265     | 22.7  | 17.5  | 26.3  |





#87

Benzo(b)fluoranthene

Concen: 26.236 ng

RT: 14.90 min Scan# 2179

Delta R.T. 0.02 min

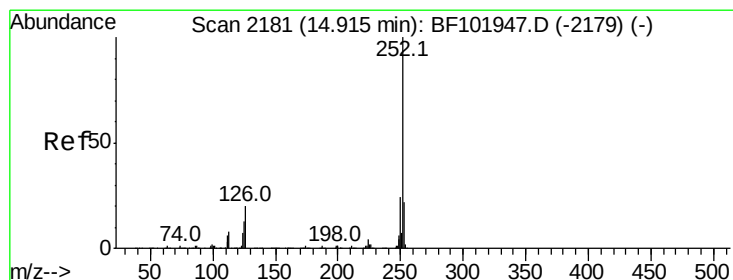
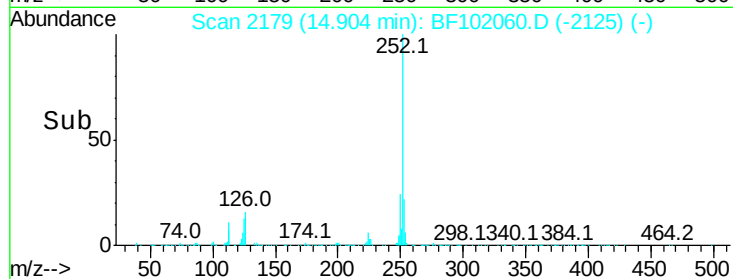
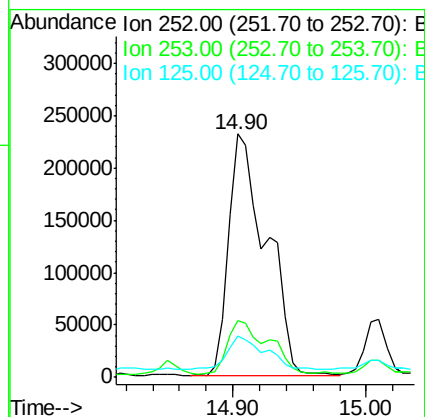
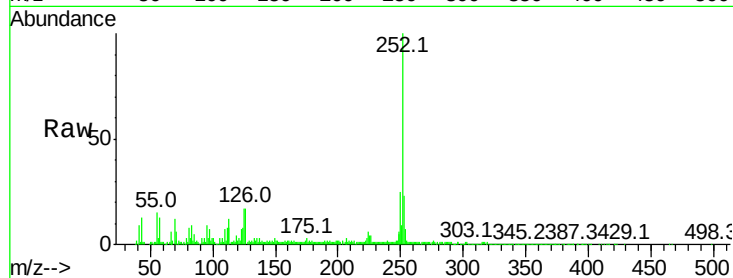
Lab File: BF102060.D

Acq: 12 Jan 2018 23:06

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:252 Resp: 453710

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 23.4  | 17.0  | 25.6  |
| 125 | 16.8  | 9.0   | 13.6# |



#88

Benzo(k)fluoranthene

Concen: 27.197 ng

RT: 14.90 min Scan# 2179

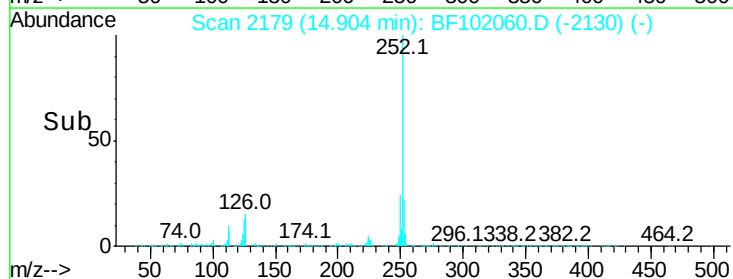
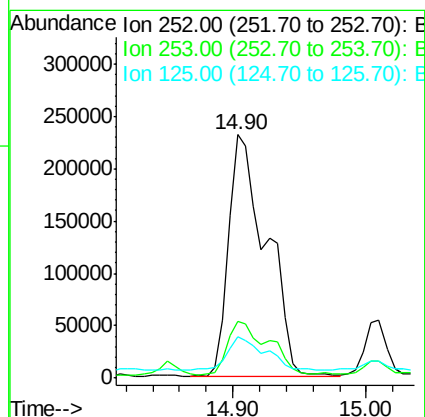
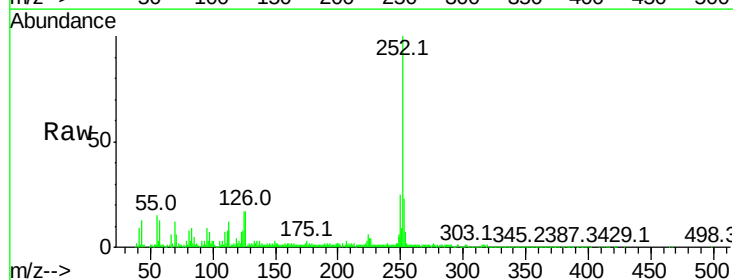
Delta R.T. -0.01 min

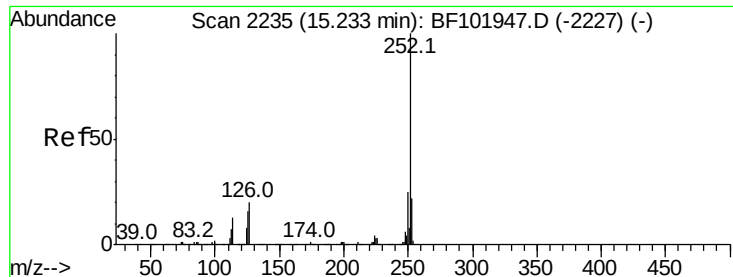
Lab File: BF102060.D

Acq: 12 Jan 2018 23:06

Tgt Ion:252 Resp: 453710

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 23.4  | 17.9  | 26.9  |
| 125 | 16.8  | 10.2  | 15.2# |





#89

Benzo(a)pyrene

Concen: 15.389 ng

RT: 15.25 min Scan# 2238

Delta R.T. 0.02 min

Lab File: BF102060.D

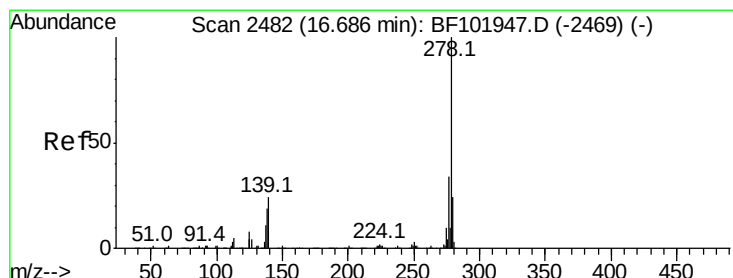
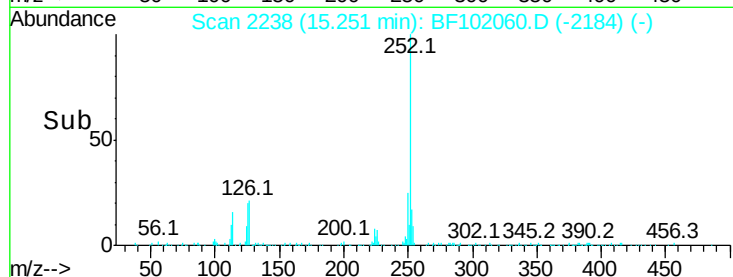
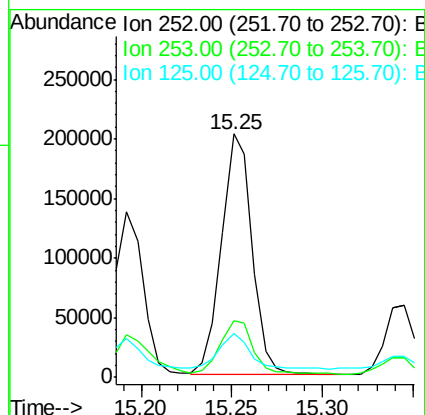
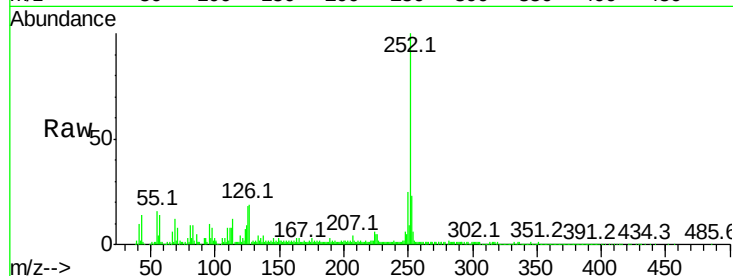
Acq: 12 Jan 2018 23:06

Instrument :

BNA\_F

ClientSampleId :

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:252 | Resp: | 239478    |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 23.4  | 17.1 25.7 |
| 125         | 17.9  | 9.8 14.6# |



#90

Dibenzo(a,h)anthracene

Concen: 2.287 ng

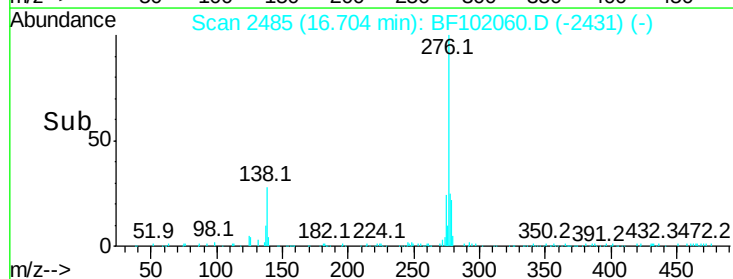
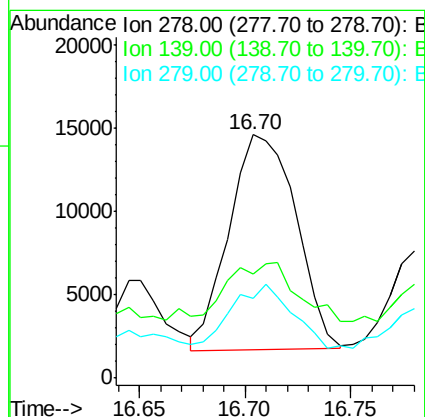
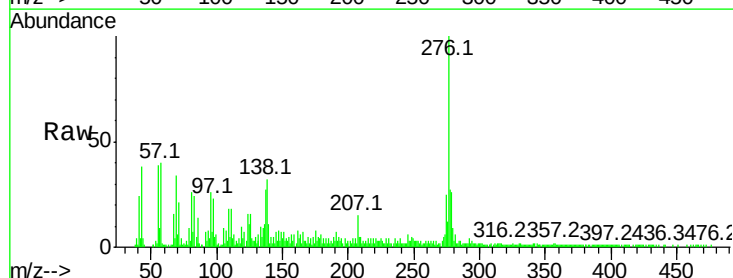
RT: 16.70 min Scan# 2485

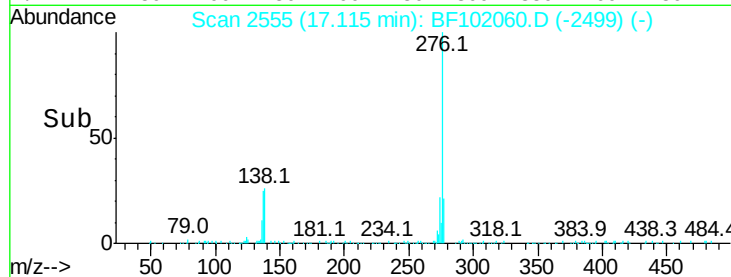
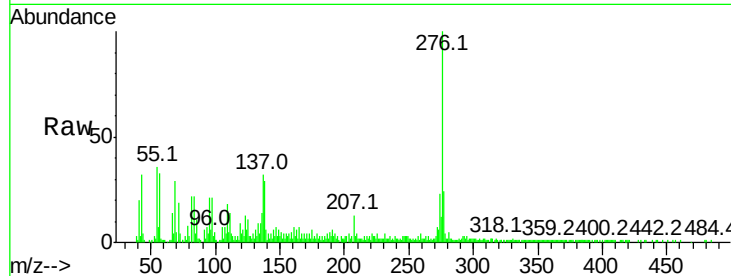
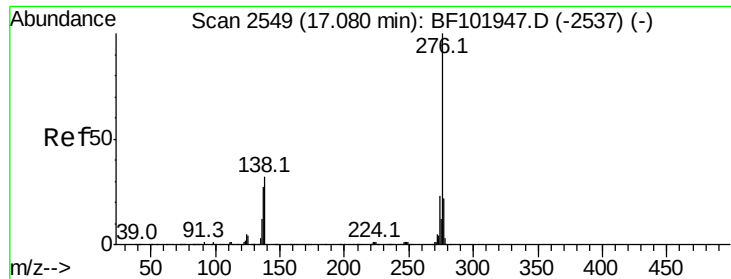
Delta R.T. 0.02 min

Lab File: BF102060.D

Acq: 12 Jan 2018 23:06

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:278 | Resp: | 28404      |
| Ion Ratio   | Lower | Upper      |
| 278         | 100   |            |
| 139         | 42.6  | 15.9 23.9# |
| 279         | 33.0  | 19.0 28.4# |





#91

Benzo(a,h,i)perylene

Concen: 9.845 ng

RT: 17.12 min Scan# 2555

Delta R.T. 0.03 min

Lab File: BF102060.D

Acq: 12 Jan 2018 23:06

Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 276 Resp: 123152

Ion Ratio Lower Upper

276 100

277 23.6 17.9 26.9

138 29.1 21.8 32.8

