

Data Path : Z:\HPCHEM1\BNA G\DATA\BG031318\  
 Data File : BG033117.D  
 Acq On : 13 Mar 2018 13:21  
 Operator : SJ/JU  
 Sample : J1873-09  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Mar 13 14:30:16 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG022118.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 09 15:10:14 2018  
 Response via : Initial Calibration

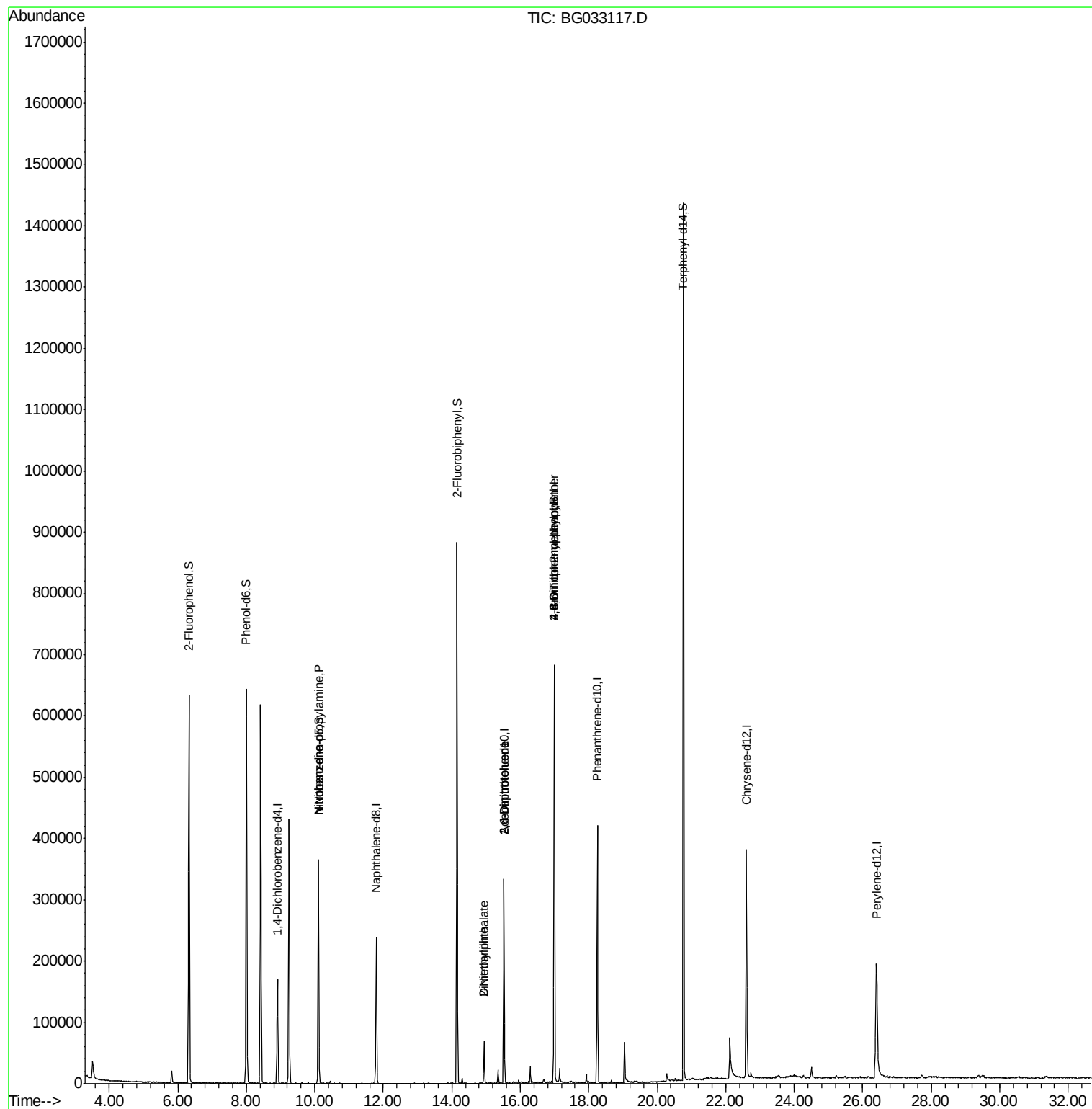
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.91  | 152  | 47814    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 11.79 | 136  | 209622   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 15.52 | 164  | 113804   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 18.25 | 188  | 253083   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 22.60 | 240  | 253796   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 26.40 | 264  | 254275   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 6.32  | 112  | 284812   | 95.30  | ng    | 0.00     |
| 7) Phenol-d6                   | 8.00  | 99   | 379674   | 91.14  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 10.11 | 82   | 229476   | 77.02  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 16.99 | 330  | 125765   | 105.10 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 14.15 | 172  | 464625   | 58.88  | ng    | 0.00     |
| 78) Terphenyl-d14              | 20.76 | 244  | 656730   | 58.14  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 10.11 | 70   | 29976    | 10.193 | ng    | # 86     |
| 24) Nitrobenzene               | 10.11 | 77   | 588      | 6.533  | ng    | # 42     |
| 47) 2-Nitroaniline             | 14.94 | 65   | 454      | 10.028 | ng    | # 1      |
| 49) Dimethylphthalate          | 14.94 | 163  | 40986    | 4.242  | ng    | # 98     |
| 50) 2,6-Dinitrotoluene         | 15.52 | 165  | 14308    | 16.186 | ng    | # 18     |
| 56) 2,4-Dinitrotoluene         | 15.52 | 165  | 14308    | 14.382 | ng    | # 16     |
| 64) 4,6-Dinitro-2-methylphenol | 17.00 | 198  | 256      | 5.379  | ng    | # 32     |
| 66) 4-Bromophenyl-phenylether  | 16.99 | 248  | 8651     | 3.233  | ng    | # 1      |

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

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Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG022118.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Mar 09 15:10:14 2018  
Response via : Initial Calibration



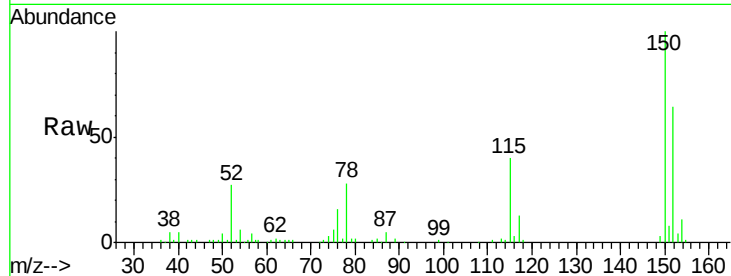


#1

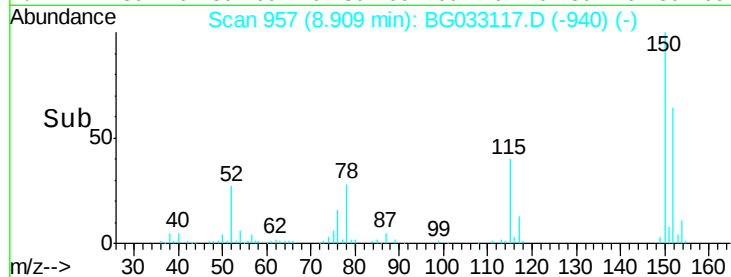
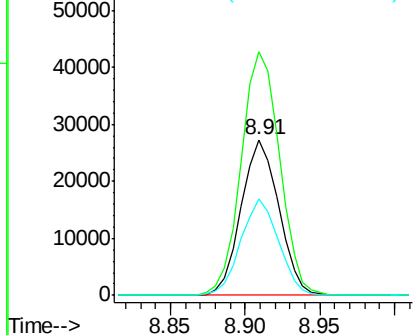
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.91 min Scan# 957  
Delta R.T. -0.00 min  
Lab File: BG033117.D  
Acq: 13 Mar 2018 13:21

Instrument :  
BNA\_G  
ClientSampled :

Tot Ion:152 Resp: 47814  
Ion Ratio Lower Upper  
152 100  
150 156.4 126.6 189.8  
115 62.2 53.0 79.4



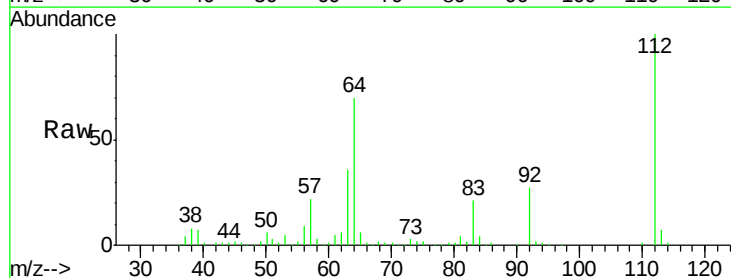
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



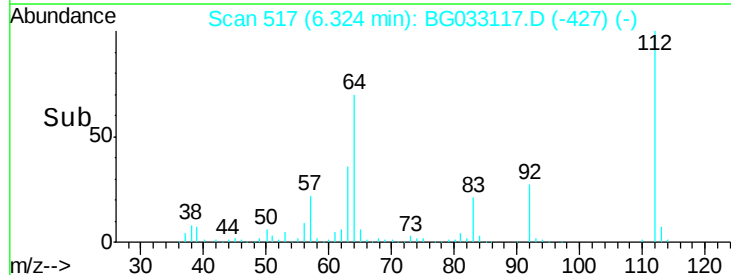
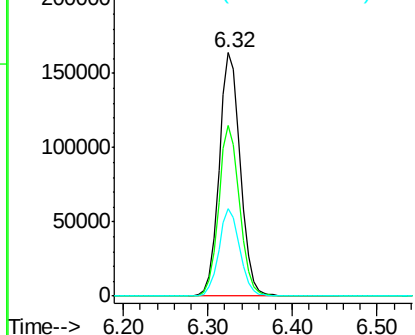
#5

2-Fluorophenol  
Concen: 95.298 ng  
RT: 6.32 min Scan# 517  
Delta R.T. -0.00 min  
Lab File: BG033117.D  
Acq: 13 Mar 2018 13:21

Tgt Ion:112 Resp: 284812  
Ion Ratio Lower Upper  
112 100  
64 70.2 56.3 84.5  
63 36.0 30.1 45.1



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BGC  
Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 91.142 ng

RT: 8.00 min Scan# 803

Delta R.T. -0.00 min

Lab File: BG033117.D

Acq: 13 Mar 2018 13:21

Instrument :

BNA\_G

ClientSampled :

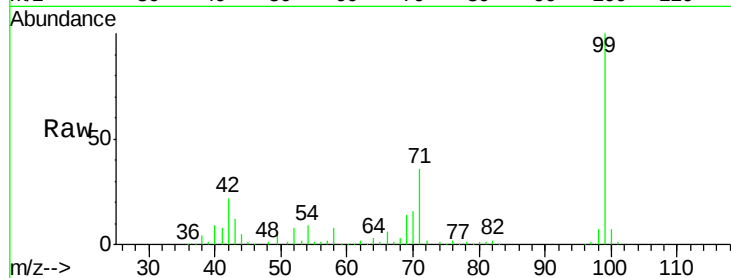
Tot Ion: 99 Resp: 379674

Ion Ratio Lower Upper

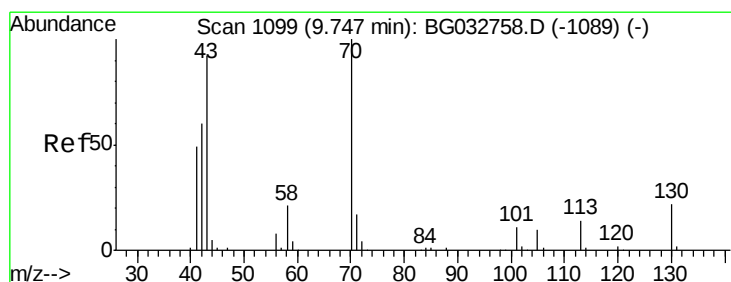
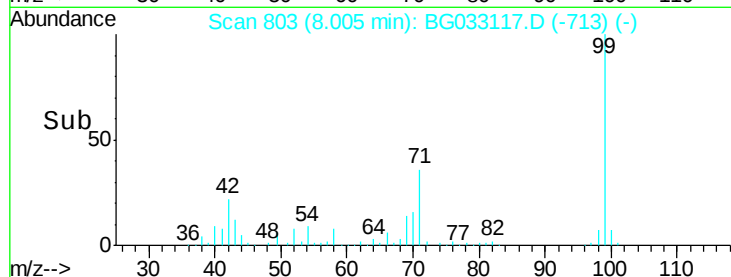
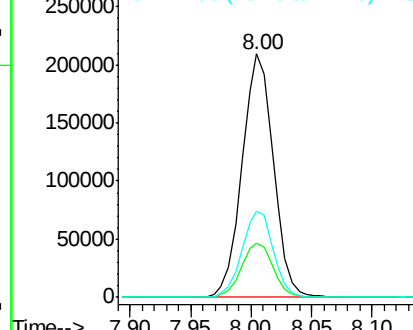
99 100

42 22.1 14.1 21.1#

71 35.6 26.1 39.1



Abundance Ion 99.00 (98.70 to 99.70): BGC  
Ion 42.00 (41.70 to 42.70): BGC  
Ion 71.00 (70.70 to 71.70): BGC



#19

n-Nitroso-di-n-propylamine

Concen: 10.193 ng

RT: 10.11 min Scan# 1161

Delta R.T. 0.39 min

Lab File: BG033117.D

Acq: 13 Mar 2018 13:21

Tgt Ion: 70 Resp: 29976

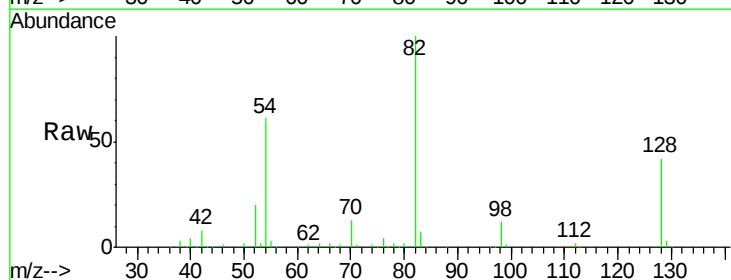
Ion Ratio Lower Upper

70 100

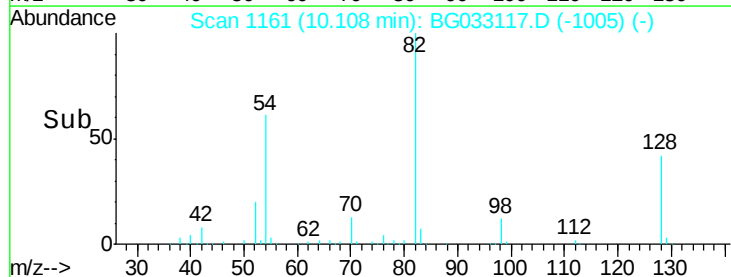
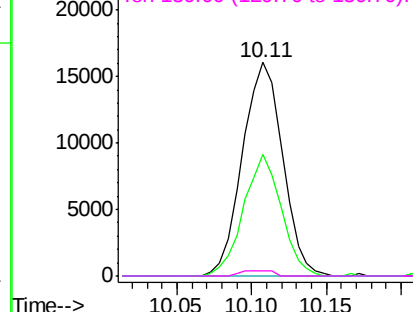
42 57.0 49.1 73.7

101 0.0 8.5 12.7#

130 2.4 13.4 20.0#



Abundance Ion 70.00 (69.70 to 70.70): BGC  
Ion 42.00 (41.70 to 42.70): BGC  
Ion 101.00 (100.70 to 101.70): BGC  
Ion 130.00 (129.70 to 130.70): BGC

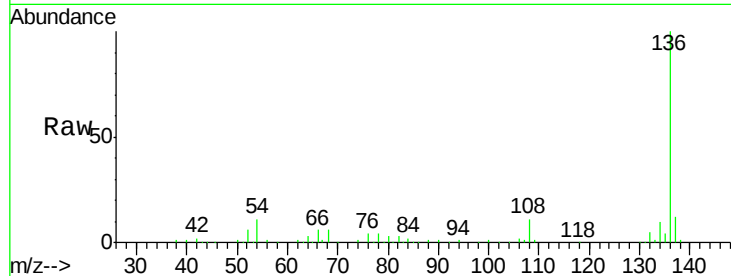




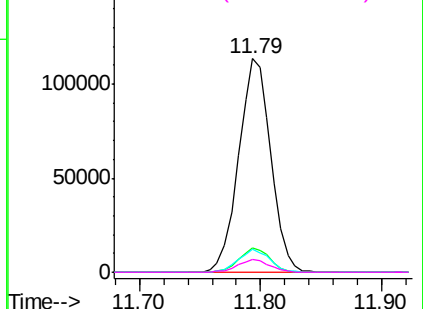
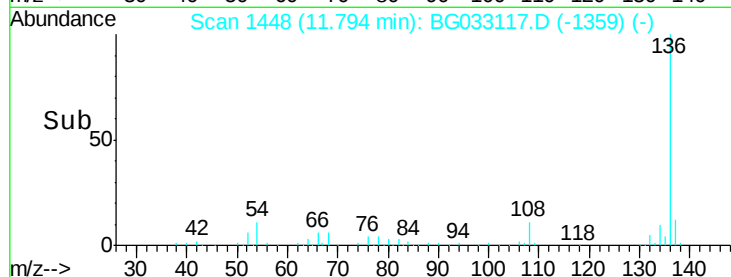
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.79 min Scan# 1448  
Delta R.T. -0.01 min  
Lab File: BG033117.D  
Acq: 13 Mar 2018 13:21

Instrument :  
BNA\_G  
ClientSampleId :

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:136 | Resp: | 209622    |
| Ion Ratio   | Lower | Upper     |
| 136         | 100   |           |
| 137         | 11.7  | 9.2 13.8  |
| 54          | 10.7  | 10.3 15.5 |
| 68          | 6.1   | 4.5 6.7   |

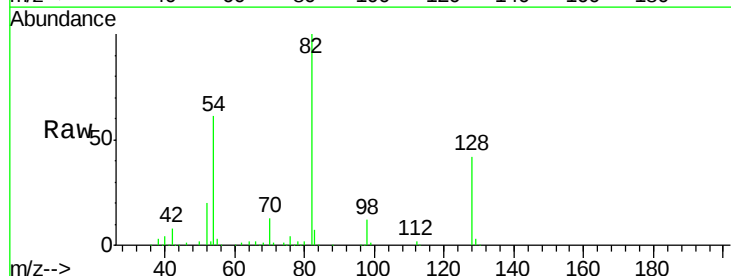


Abundance Ion 136.00 (135.70 to 136.70): BGC  
Ion 137.00 (136.70 to 137.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

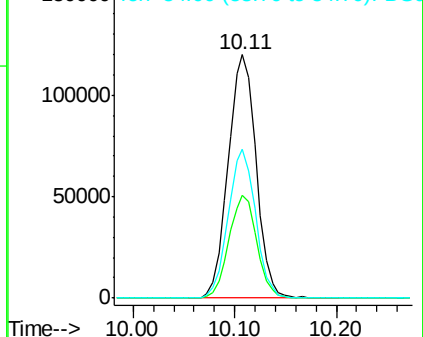
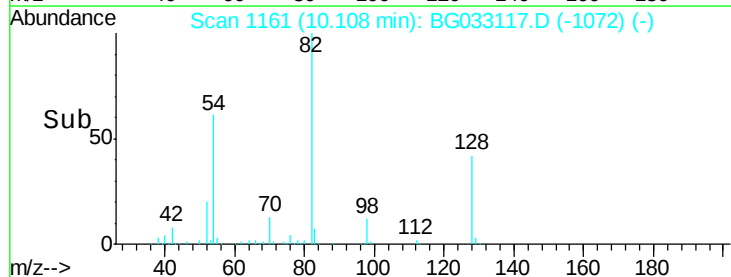


#23  
Nitrobenzene-d5  
Concen: 77.021 ng  
RT: 10.11 min Scan# 1161  
Delta R.T. -0.01 min  
Lab File: BG033117.D  
Acq: 13 Mar 2018 13:21

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 229476    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 42.1  | 29.7 44.5 |
| 54          | 61.0  | 43.1 64.7 |



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

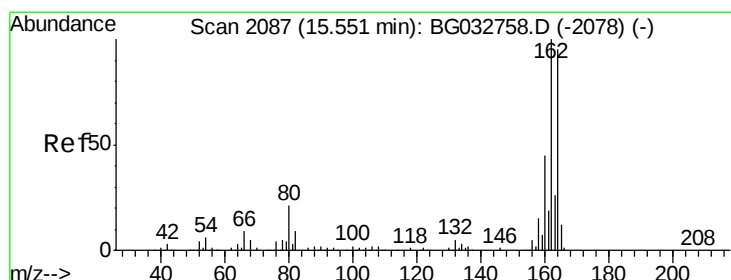
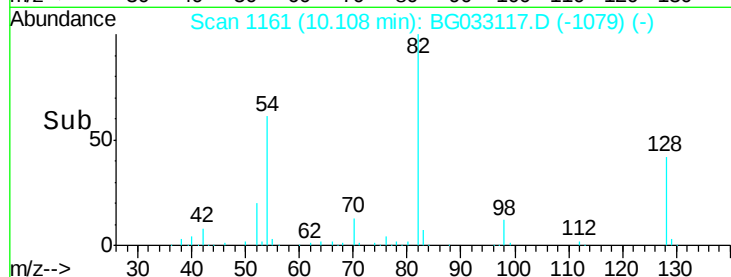
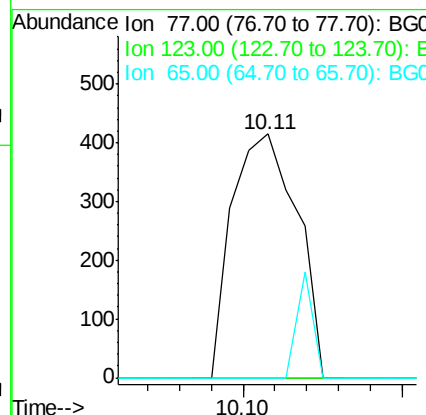
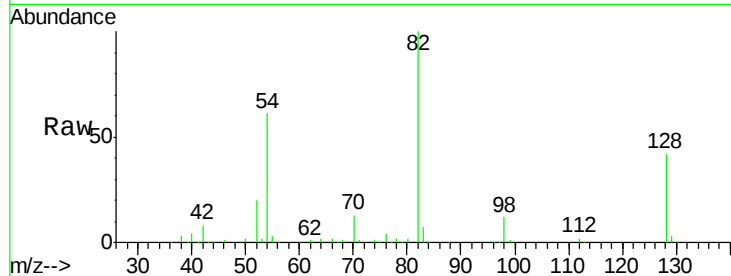




#24  
Nitrobenzene  
Concen: 6.533 ng  
RT: 10.11 min Scan# 1161  
Delta R.T. -0.05 min  
Lab File: BG033117.D  
Acq: 13 Mar 2018 13:21

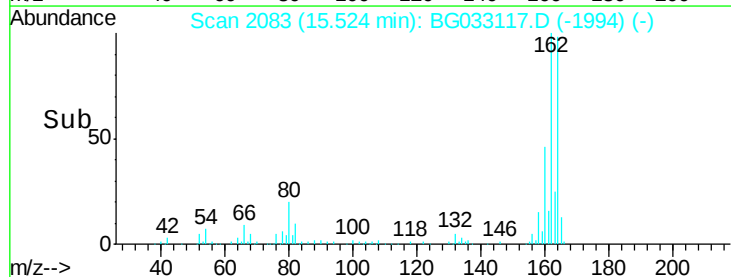
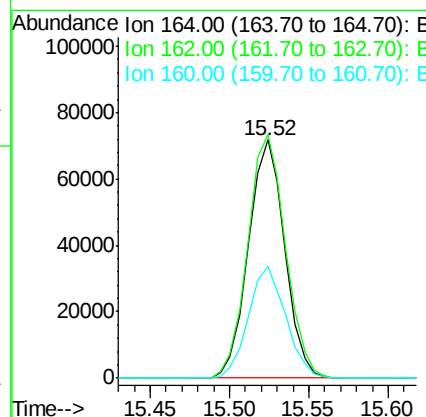
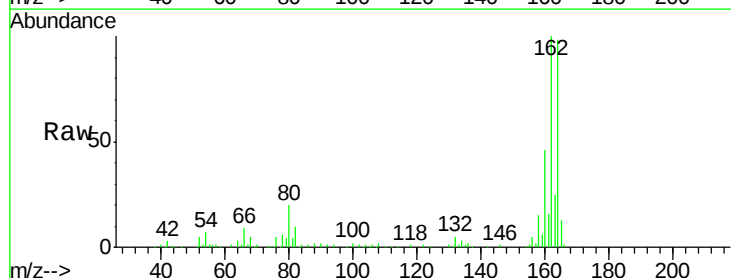
Instrument :  
BNA\_G  
ClientSampled :

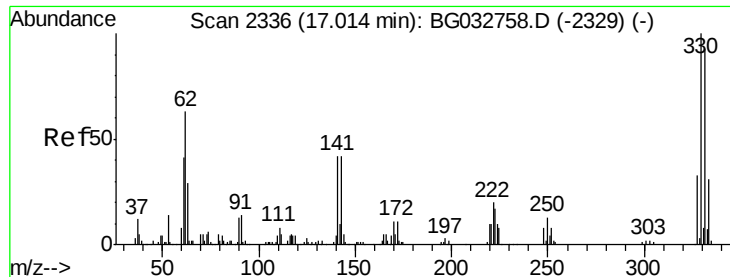
Tot Ion: 77 Resp: 588  
Ion Ratio Lower Upper  
77 100  
123 0.0 33.0 49.6#  
65 0.0 13.0 19.6#



#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 15.52 min Scan# 2083  
Delta R.T. -0.01 min  
Lab File: BG033117.D  
Acq: 13 Mar 2018 13:21

Tgt Ion:164 Resp: 113804  
Ion Ratio Lower Upper  
164 100  
162 102.1 78.8 118.2  
160 47.1 35.4 53.0

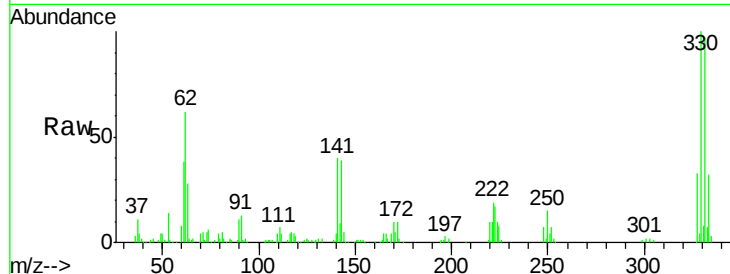




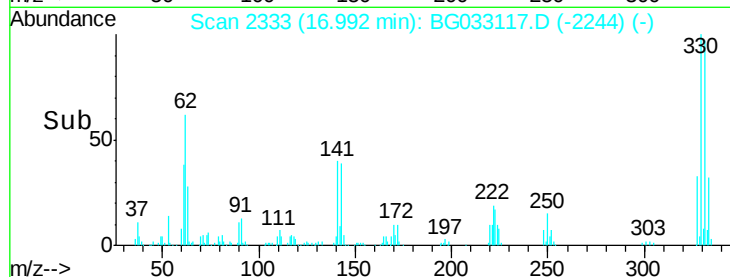
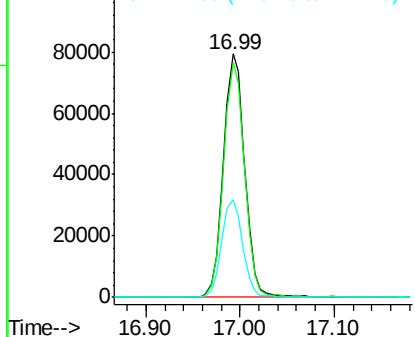
#41  
 2,4,6-Tribromophenol  
 Concen: 105.101 ng  
 RT: 16.99 min Scan# 2333  
 Delta R.T. -0.01 min  
 Lab File: BG033117.D  
 Acq: 13 Mar 2018 13:21

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 94.7  | 77.0  | 115.6 |
| 141     | 40.1  | 25.2  | 37.8# |

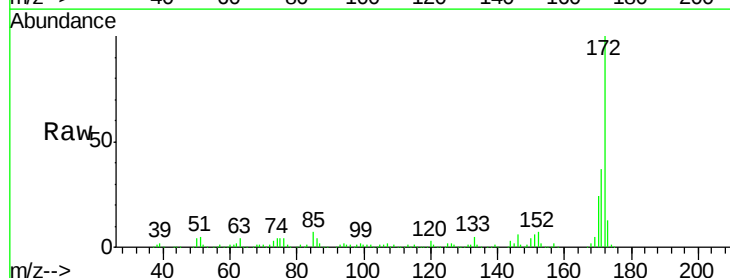


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

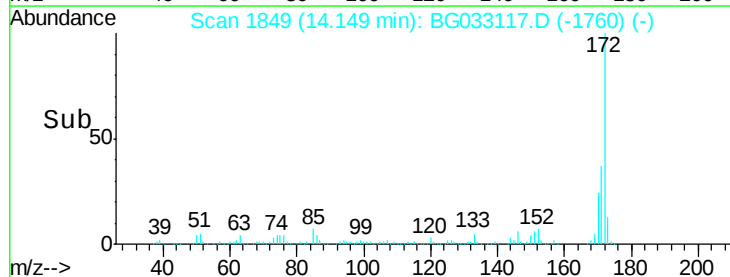
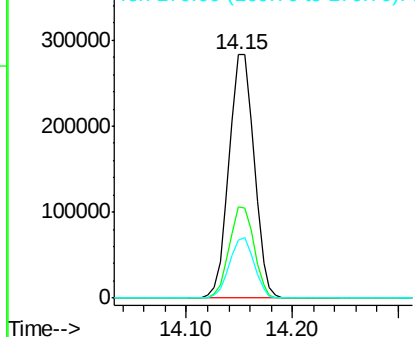


#44  
 2-Fluorobiphenyl  
 Concen: 58.883 ng  
 RT: 14.15 min Scan# 1849  
 Delta R.T. -0.01 min  
 Lab File: BG033117.D  
 Acq: 13 Mar 2018 13:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.4  | 30.0  | 45.0  |
| 170     | 24.1  | 19.5  | 29.3  |



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





#47

2-Nitroaniline

Concen: 10.028 ng

RT: 14.94 min Scan# 1983

Delta R.T. 0.33 min

Lab File: BG033117.D

Acq: 13 Mar 2018 13:21

Instrument :

BNA\_G

ClientSampleId :

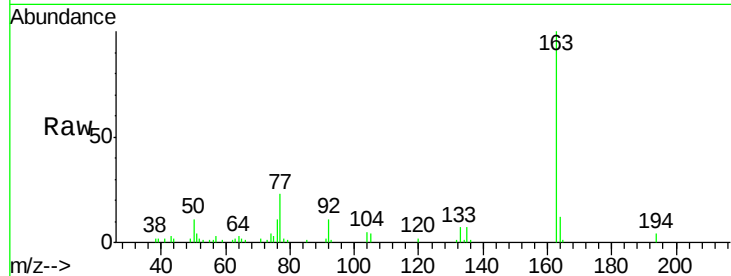
Tot Ion: 65 Resp: 454

Ion Ratio Lower Upper

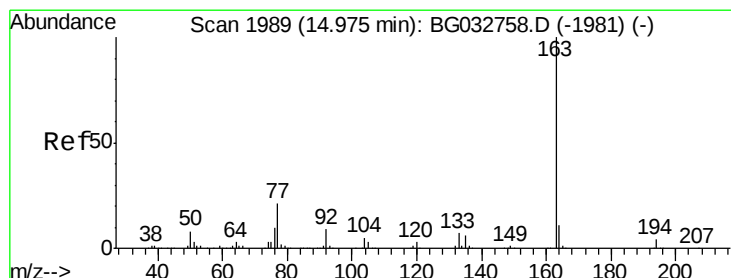
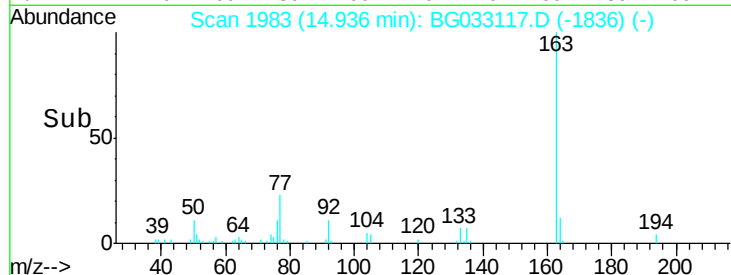
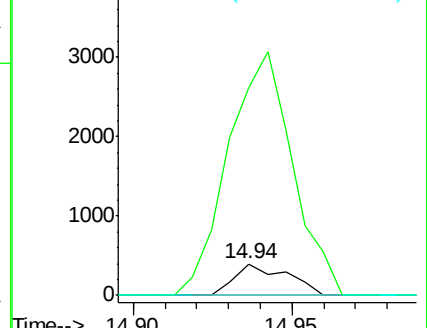
65 100

92 664.3 54.6 82.0#

138 0.0 72.9 109.3#



Abundance Ion 65.00 (64.70 to 65.70): BGC  
Ion 92.00 (91.70 to 92.70): BGC  
Ion 138.00 (137.70 to 138.70): BGC



#49

Dimethylphthalate

Concen: 4.242 ng

RT: 14.94 min Scan# 1984

Delta R.T. -0.01 min

Lab File: BG033117.D

Acq: 13 Mar 2018 13:21

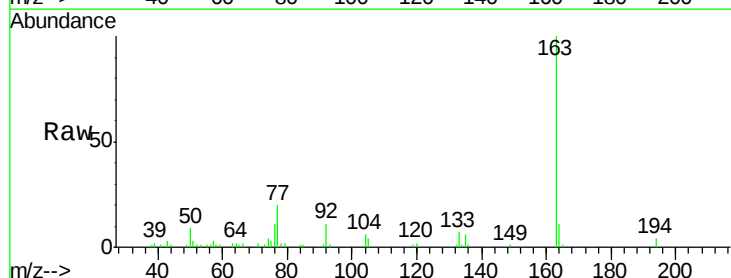
Tgt Ion: 163 Resp: 40986

Ion Ratio Lower Upper

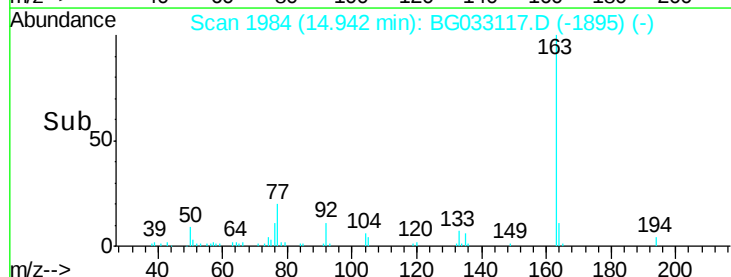
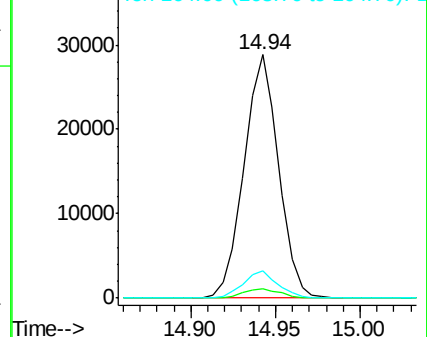
163 100

194 3.8 3.4 5.2

164 11.0 8.2 12.4



Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

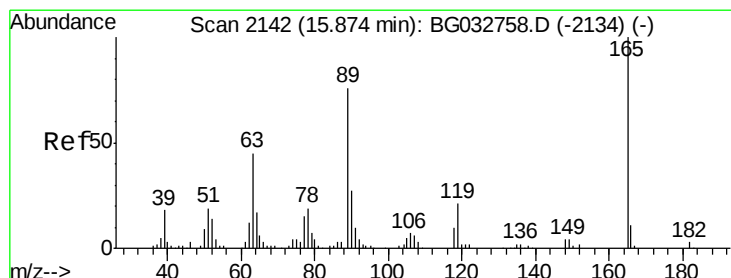
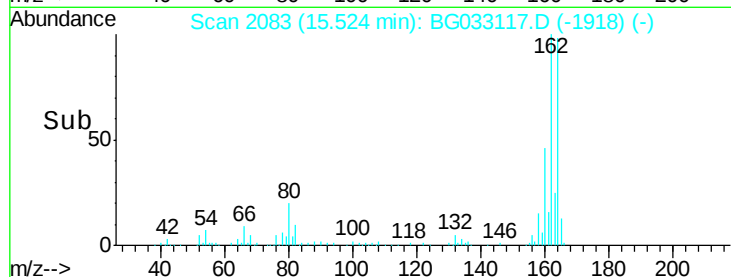
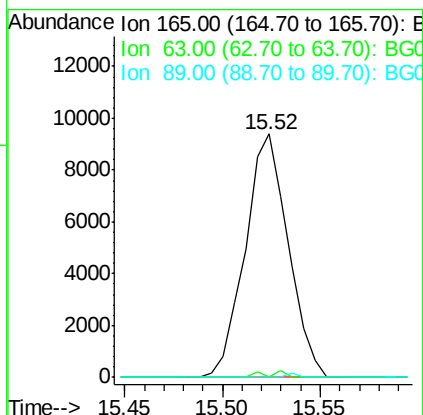
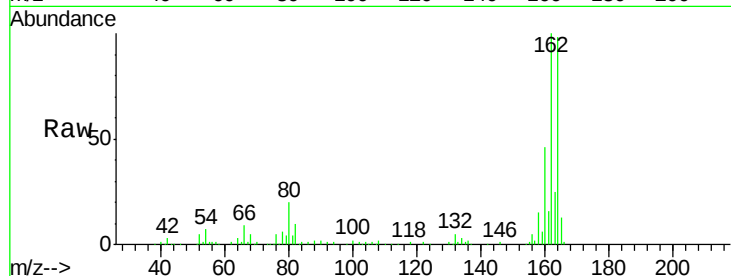




#50  
 2,6-Dinitrotoluene  
 Concen: 16.186 ng  
 RT: 15.52 min Scan# 2083  
 Delta R.T. 0.44 min  
 Lab File: BG033117.D  
 Acq: 13 Mar 2018 13:21

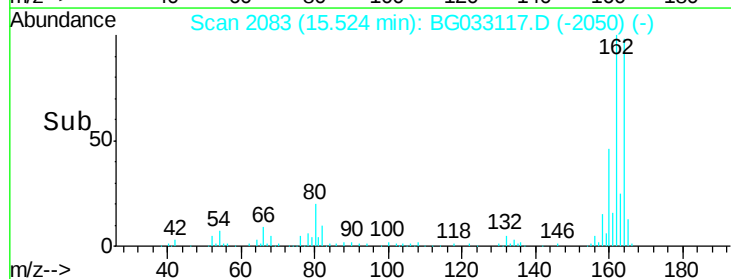
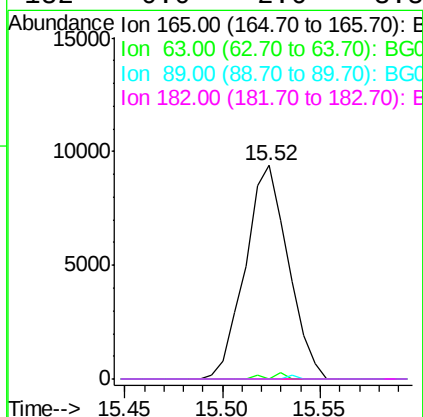
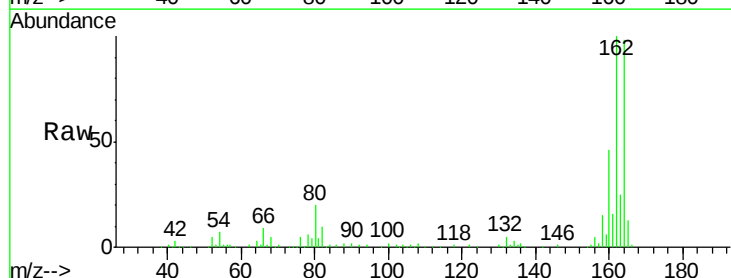
Instrument :  
 BNA\_G  
 ClientSampleId :

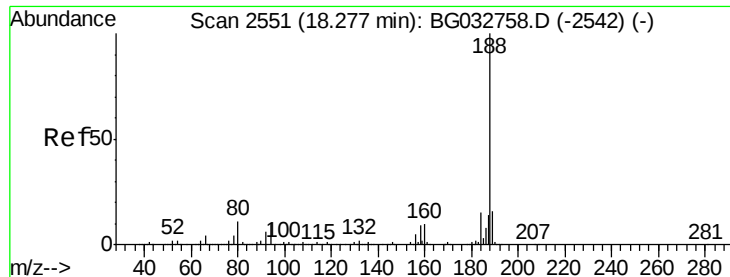
Tot Ion:165 Resp: 14308  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 52.7 79.1#  
 89 0.0 49.2 73.8#



#56  
 2,4-Dinitrotoluene  
 Concen: 14.382 ng  
 RT: 15.52 min Scan# 2083  
 Delta R.T. -0.33 min  
 Lab File: BG033117.D  
 Acq: 13 Mar 2018 13:21

Tgt Ion:165 Resp: 14308  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 42.0 63.0#  
 89 0.0 66.9 100.3#  
 182 0.0 2.6 3.8#

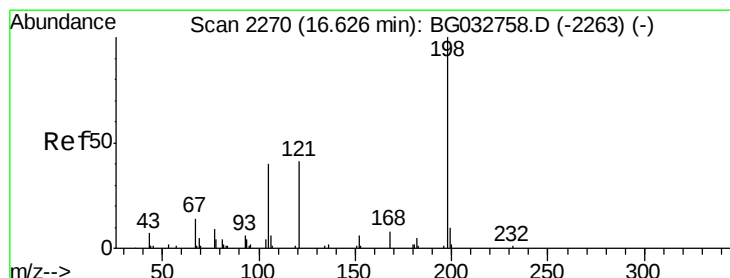
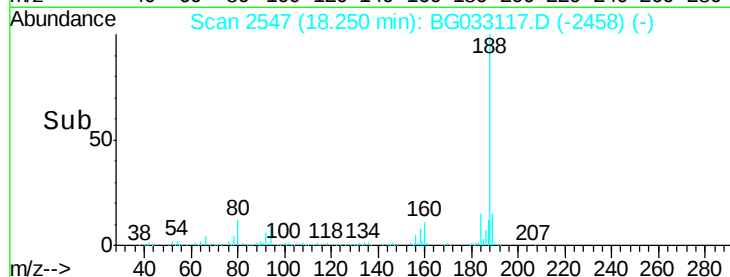
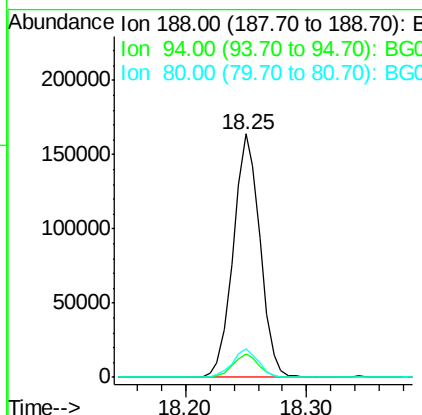
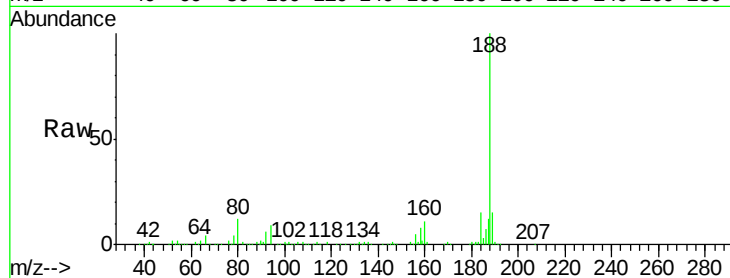




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 18.25 min Scan# 2547  
Delta R.T. -0.01 min  
Lab File: BG033117.D  
Acq: 13 Mar 2018 13:21

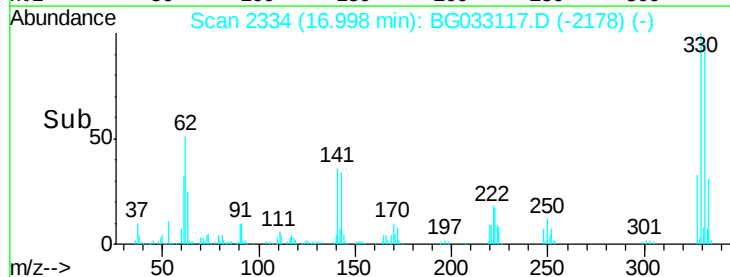
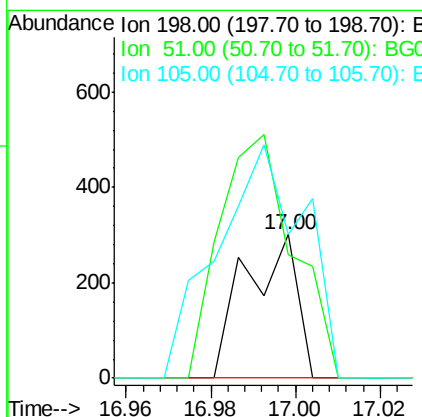
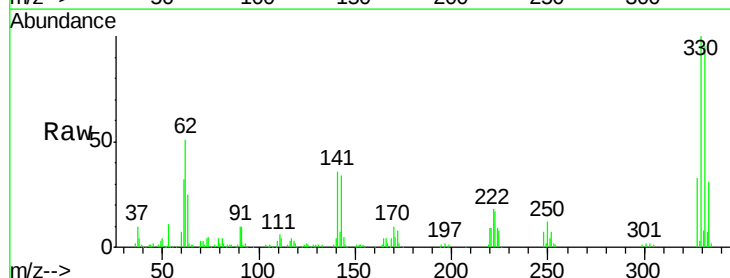
Instrument :  
BNA\_G  
ClientSampleId :

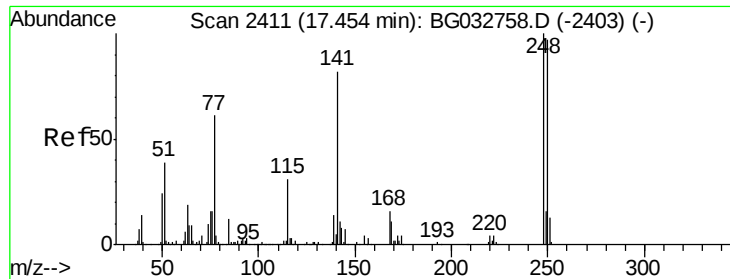
Tot Ion:188 Resp: 253083  
Ion Ratio Lower Upper  
188 100  
94 9.4 6.9 10.3  
80 11.9 7.7 11.5#



#64  
4,6-Dinitro-2-methylphenol  
Concen: 5.379 ng  
RT: 17.00 min Scan# 2334  
Delta R.T. 0.39 min  
Lab File: BG033117.D  
Acq: 13 Mar 2018 13:21

Tgt Ion:198 Resp: 256  
Ion Ratio Lower Upper  
198 100  
51 85.7 30.6 70.6#  
105 100.0 23.8 63.8#

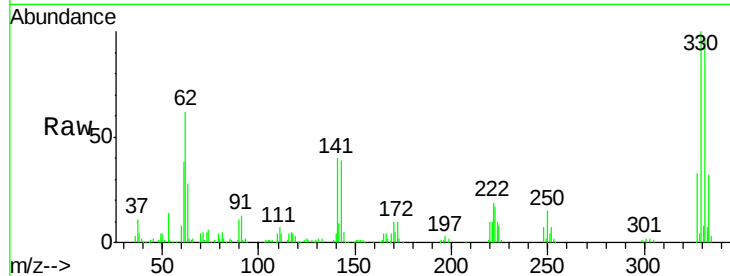




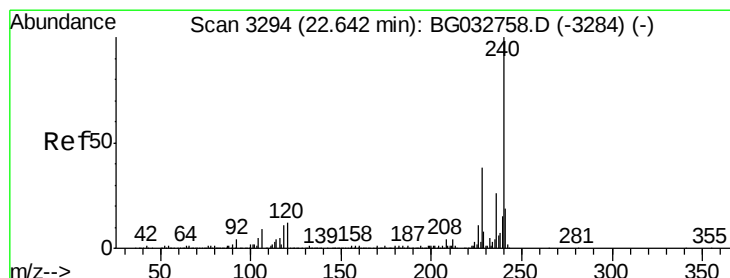
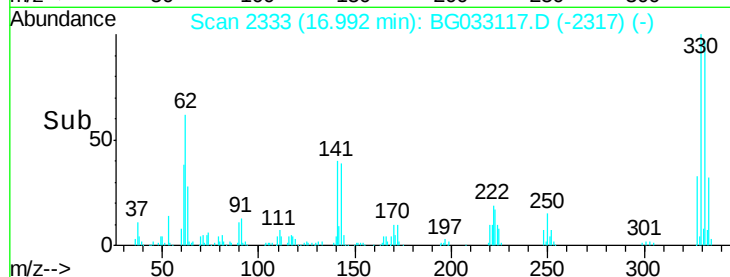
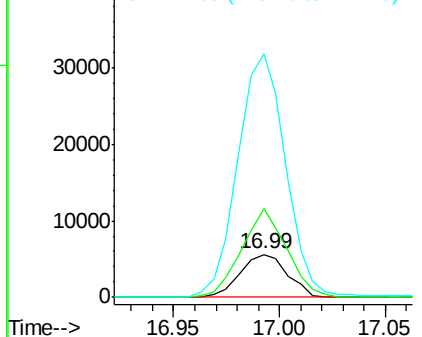
#66  
 4-Bromophenyl-phenylether  
 Concen: 3.233 ng  
 RT: 16.99 min Scan# 2333  
 Delta R.T. -0.43 min  
 Lab File: BG033117.D  
 Acq: 13 Mar 2018 13:21

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:248 Resp: 8651  
 Ion Ratio Lower Upper  
 248 100  
 250 206.7 77.1 115.7#  
 141 567.1 50.8 76.2#

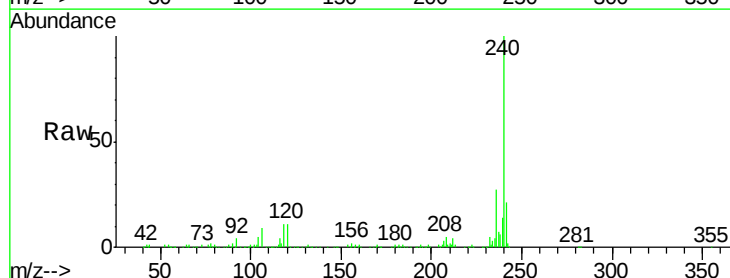


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

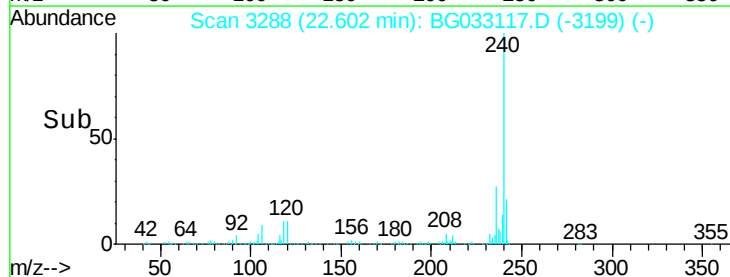
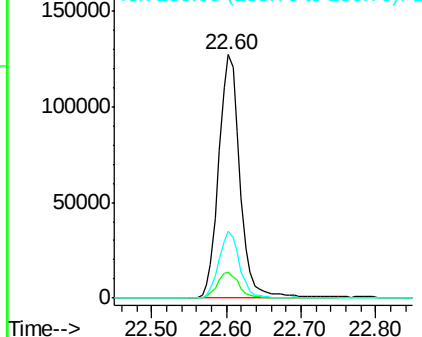


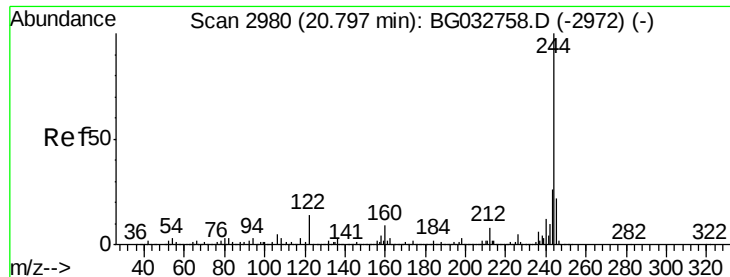
#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 22.60 min Scan# 3288  
 Delta R.T. -0.01 min  
 Lab File: BG033117.D  
 Acq: 13 Mar 2018 13:21

Tgt Ion:240 Resp: 253796  
 Ion Ratio Lower Upper  
 240 100  
 120 10.9 6.8 10.2#  
 236 27.2 20.9 31.3



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





#78

Terphenyl-d14

Concen: 58.137 ng

RT: 20.76 min Scan# 2975

Delta R.T. -0.01 min

Lab File: BG033117.D

Acq: 13 Mar 2018 13:21

Instrument :

BNA\_G

ClientSampleId :

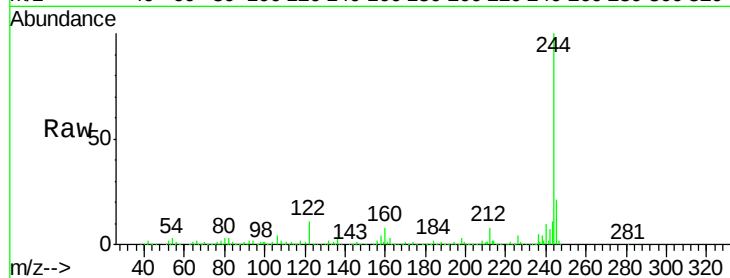
Tot Ion:244 Resp: 656730

Ion Ratio Lower Upper

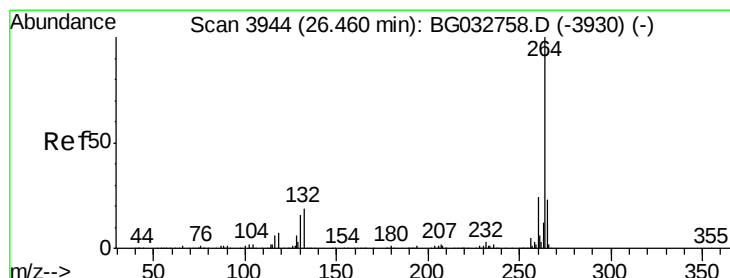
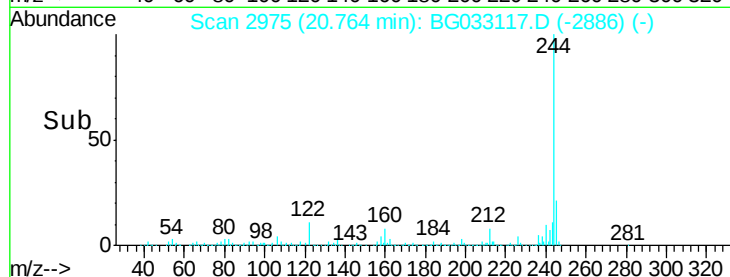
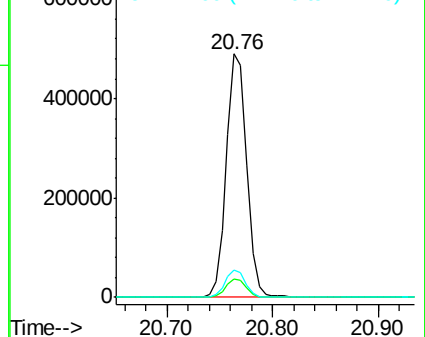
244 100

212 7.7 5.8 8.8

122 11.3 7.0 10.4#



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



#86

Perylene-d12

Concen: 20.000 ng

RT: 26.40 min Scan# 3934

Delta R.T. -0.01 min

Lab File: BG033117.D

Acq: 13 Mar 2018 13:21

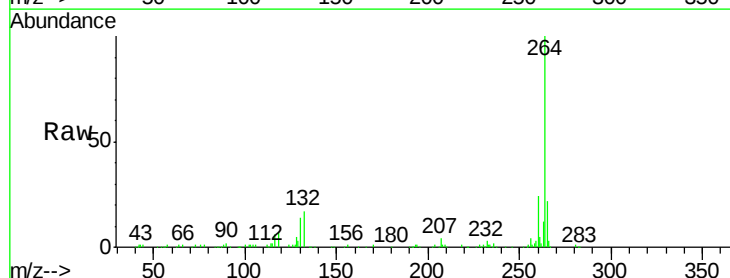
Tgt Ion:264 Resp: 254275

Ion Ratio Lower Upper

264 100

260 23.6 17.4 26.0

265 22.2 17.7 26.5



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

