

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA G\DATA\BG031918\  
 Data File : BG033262.D  
 Acq On : 20 Mar 2018 5:08  
 Operator : SJ/JU  
 Sample : J1954-03  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Mar 20 05:43:02 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG031918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Mar 19 16:48:53 2018  
 Response via : Initial Calibration

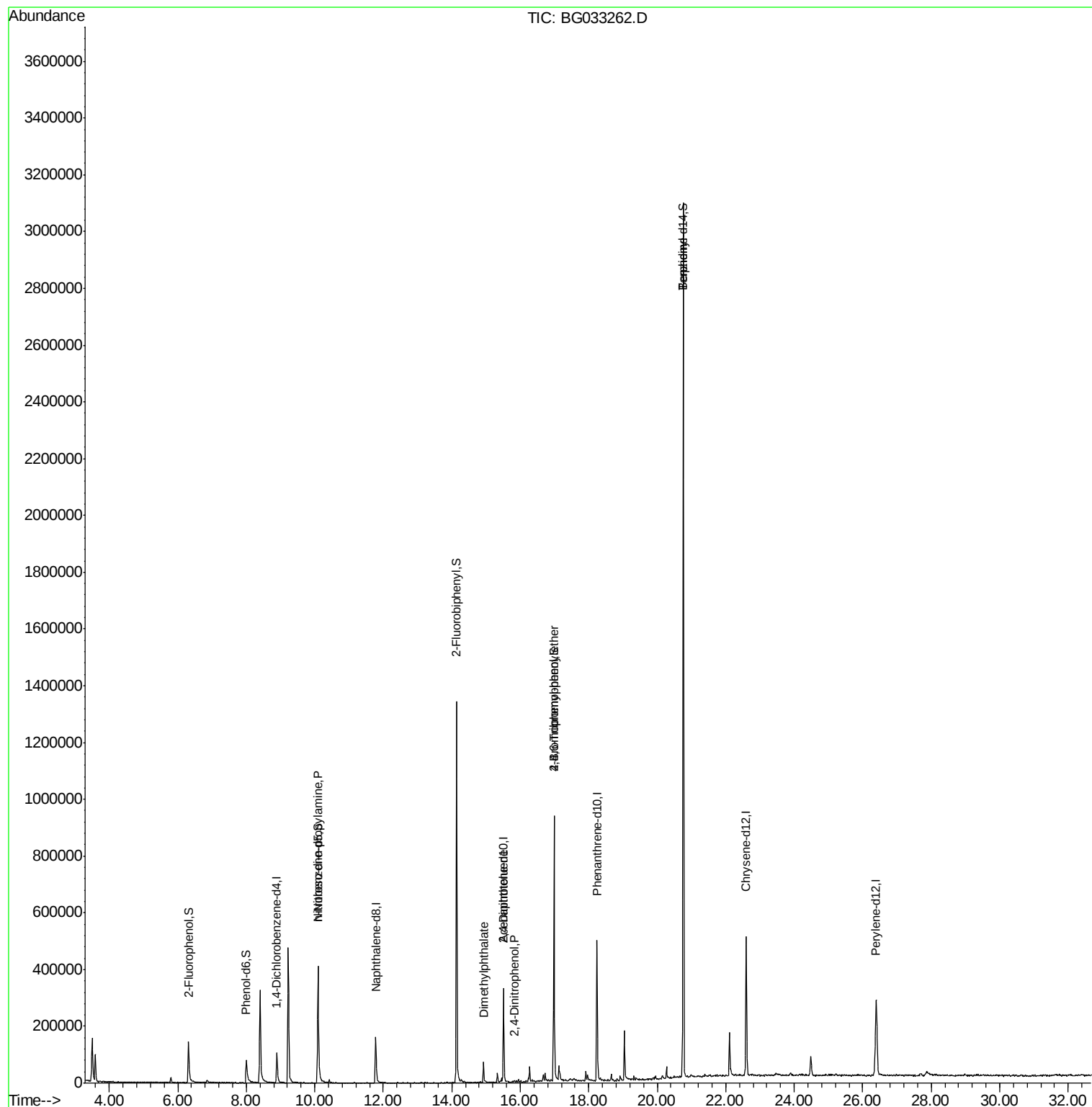
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.90  | 152  | 38116    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 11.78 | 136  | 167235   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 15.51 | 164  | 126915   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 18.24 | 188  | 346141   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 22.59 | 240  | 360147   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 26.40 | 264  | 372372   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 6.31  | 112  | 82852    | 40.76  | ng    | 0.00     |
| 7) Phenol-d6                   | 8.00  | 99   | 70739    | 20.25  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 10.09 | 82   | 319614   | 87.81  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 16.98 | 330  | 186817   | 98.42  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 14.14 | 172  | 773145   | 87.94  | ng    | 0.00     |
| 78) Terphenyl-d14              | 20.76 | 244  | 1496597  | 88.87  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 10.09 | 70   | 44826    | 17.515 | ng    | # 77     |
| 49) Dimethylphthalate          | 14.93 | 163  | 44147    | 3.997  | ng    | # 93     |
| 53) 2,4-Dinitrophenol          | 15.84 | 184  | 57       | 7.687  | ng    | # 1      |
| 56) 2,4-Dinitrotoluene         | 15.51 | 165  | 16942    | 5.095  | ng    | # 18     |
| 66) 4-Bromophenyl-phenylether  | 16.98 | 248  | 14663    | 3.607  | ng    | # 1      |
| 76) Benzidine                  | 20.76 | 184  | 24969    | 2.557  | ng    | # 94     |

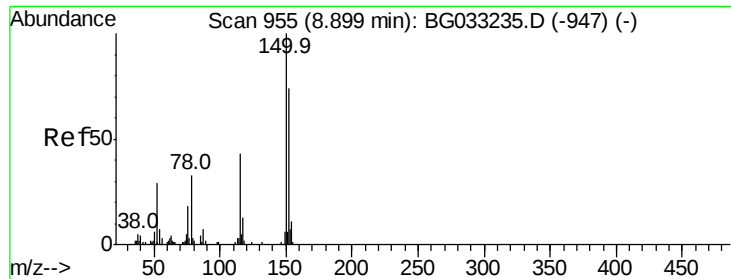
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 18 Sample Multiplier: 1

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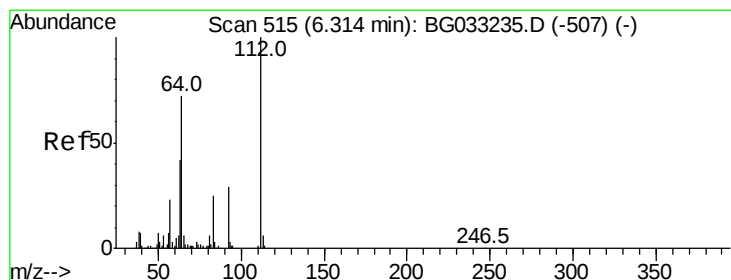
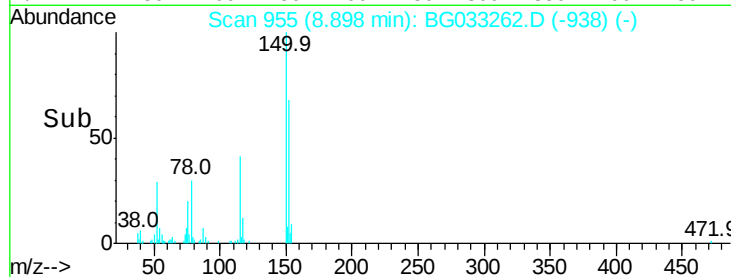
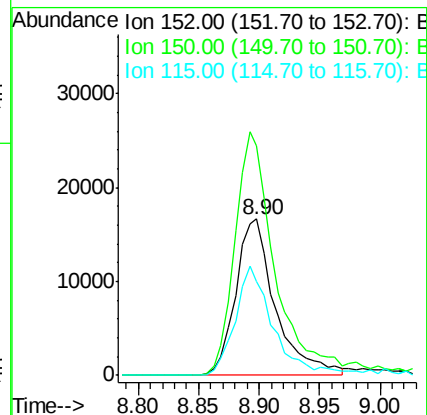
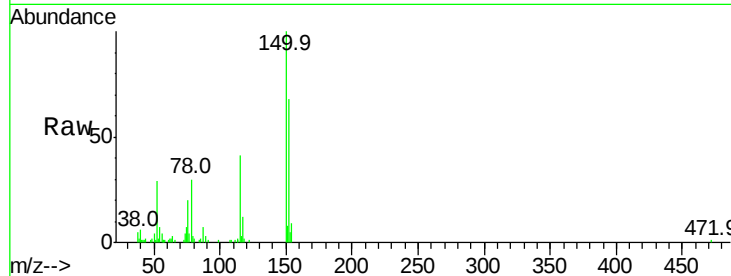


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.90 min Scan# 955  
Delta R.T. -0.00 min  
Lab File: BG033262.D  
Acq: 20 Mar 2018 5:08

Instrument :  
BNA\_G  
ClientSampleId :

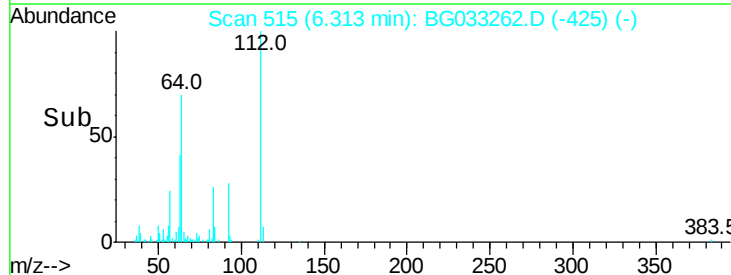
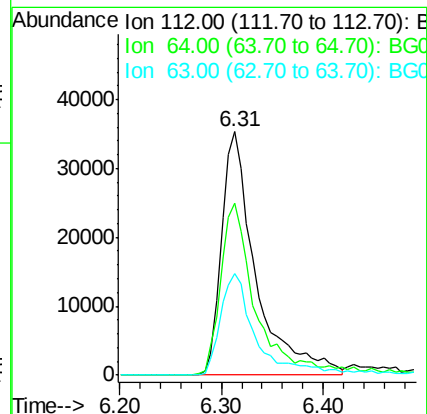
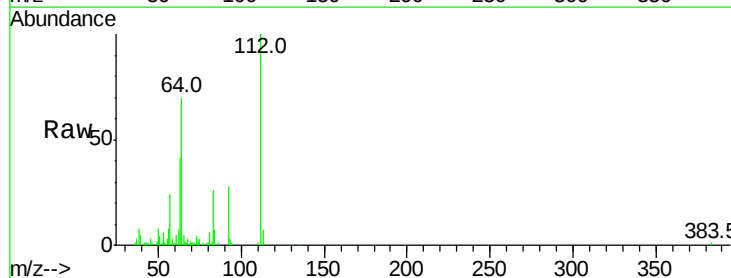
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 146.7 | 126.6 | 189.8 |
| 115     | 59.8  | 53.0  | 79.4  |

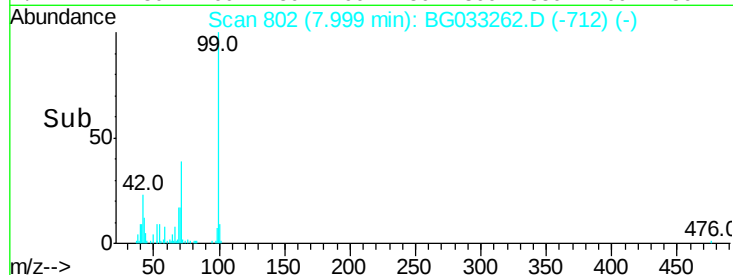
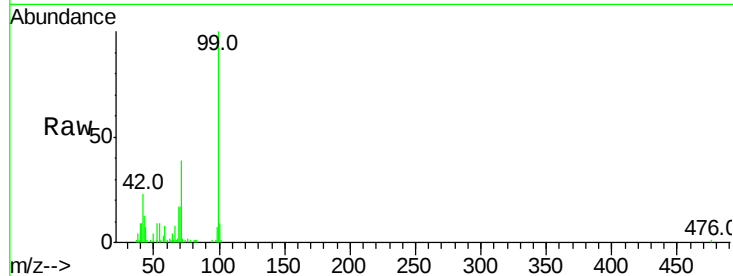
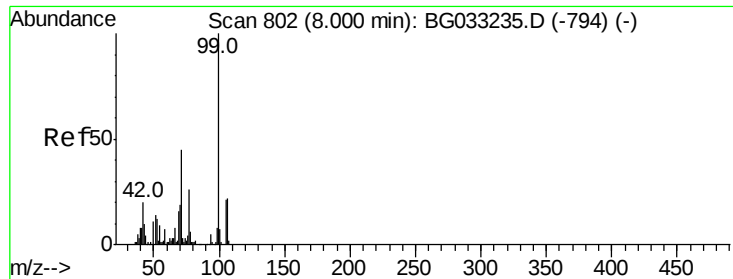


#5

2-Fluorophenol  
Concen: 40.759 ng  
RT: 6.31 min Scan# 515  
Delta R.T. -0.00 min  
Lab File: BG033262.D  
Acq: 20 Mar 2018 5:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 70.4  | 56.3  | 84.5  |
| 63      | 41.5  | 30.1  | 45.1  |





#7

Phenol-d6

Concen: 20.254 ng

RT: 8.00 min Scan# 802

Delta R.T. 0.00 min

Lab File: BG033262.D

Acq: 20 Mar 2018 5:08

Instrument :

BNA\_G

ClientSampleId :

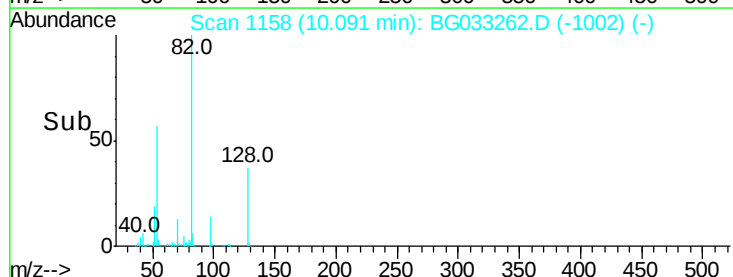
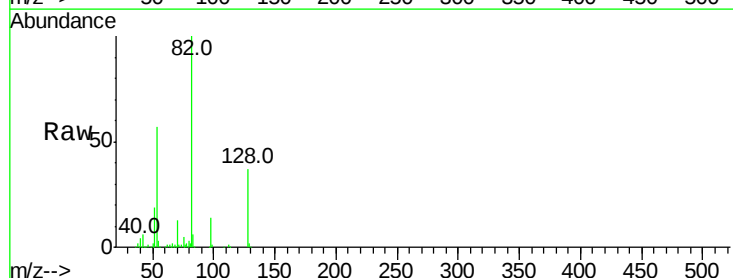
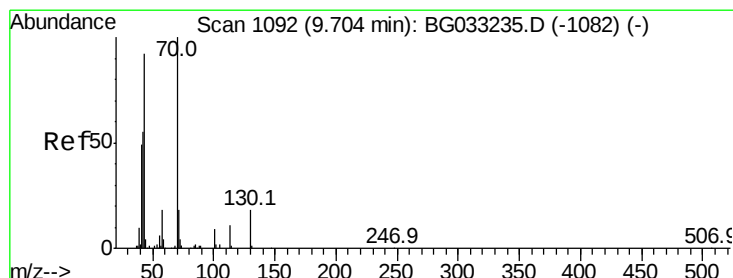
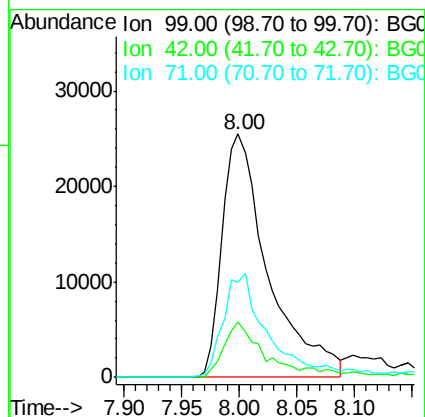
Tot Ion: 99 Resp: 70739

Ion Ratio Lower Upper

99 100

42 22.8 14.1 21.1#

71 38.8 26.1 39.1



#19

n-Nitroso-di-n-propylamine

Concen: 17.515 ng

RT: 10.09 min Scan# 1158

Delta R.T. 0.39 min

Lab File: BG033262.D

Acq: 20 Mar 2018 5:08

Tgt Ion: 70 Resp: 44826

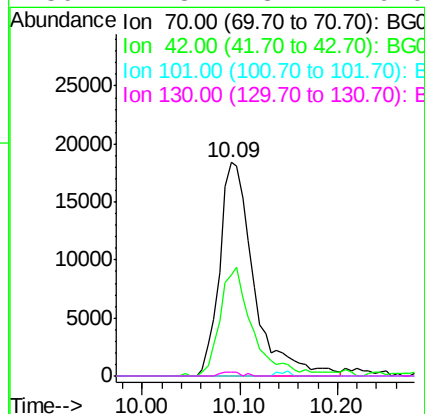
Ion Ratio Lower Upper

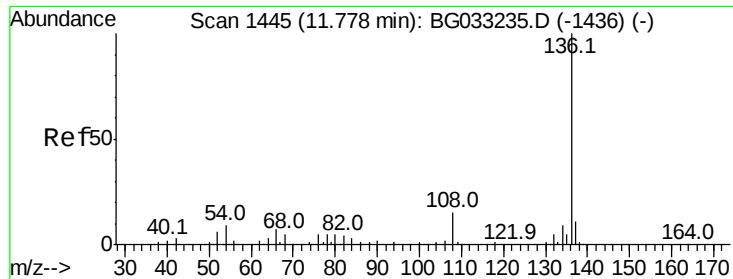
70 100

42 47.2 49.1 73.7#

101 0.0 8.5 12.7#

130 1.8 13.4 20.0#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 11.78 min Scan# 1445

Delta R.T. -0.01 min

Lab File: BG033262.D

Acq: 20 Mar 2018 5:08

Instrument :

BNA\_G

ClientSampleId :

Tot Ion:136 Resp: 167235

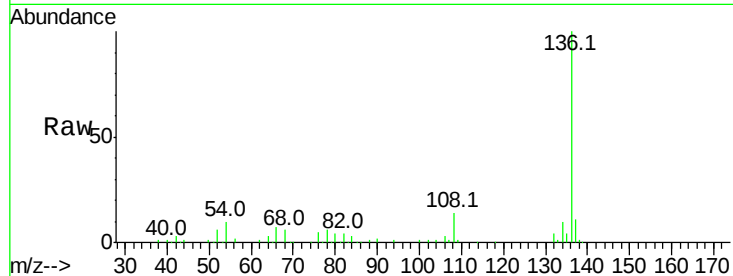
Ion Ratio Lower Upper

136 100

137 10.6 9.2 13.8

54 10.3 10.3 15.5#

68 6.3 4.5 6.7

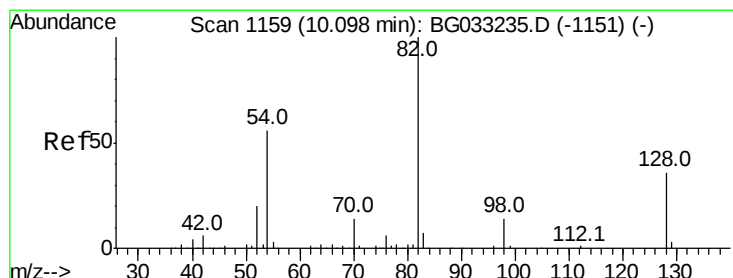
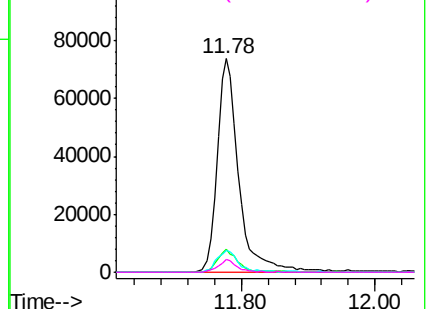
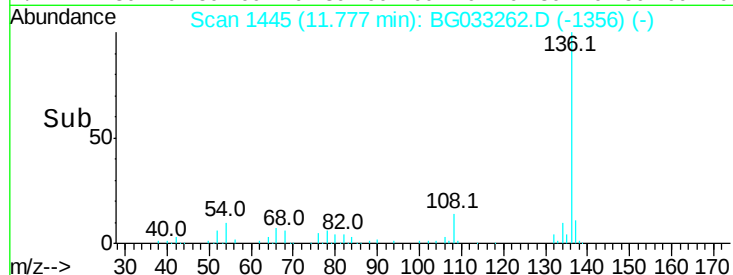


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BGC

Ion 68.00 (67.70 to 68.70): BGC



#23

Nitrobenzene-d5

Concen: 87.807 ng

RT: 10.09 min Scan# 1158

Delta R.T. -0.01 min

Lab File: BG033262.D

Acq: 20 Mar 2018 5:08

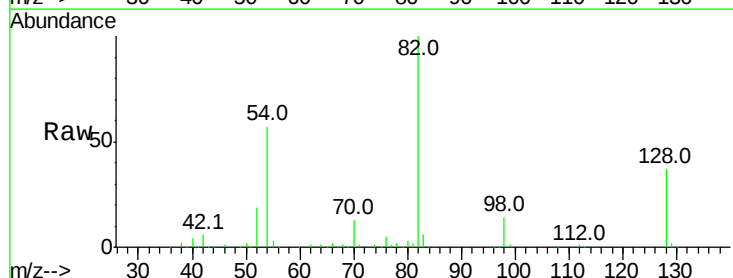
Tgt Ion: 82 Resp: 319614

Ion Ratio Lower Upper

82 100

128 37.2 29.7 44.5

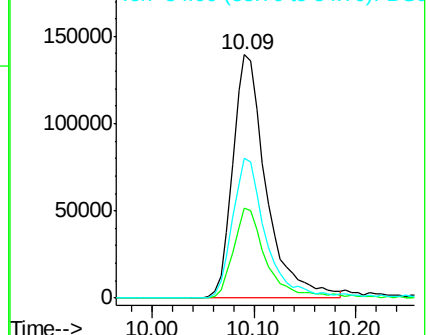
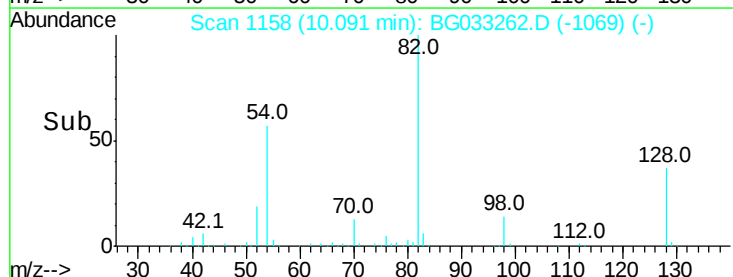
54 57.2 43.1 64.7

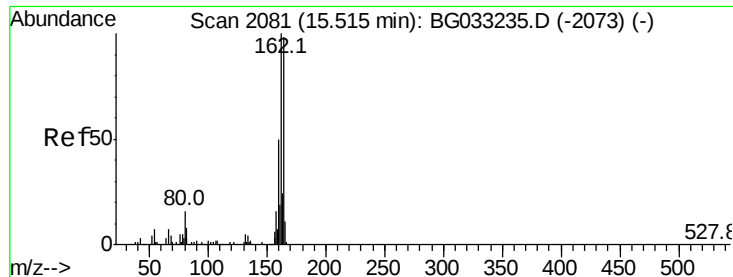


Abundance Ion 82.00 (81.70 to 82.70): BGC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BGC





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 15.51 min Scan# 2080

Delta R.T. -0.01 min

Lab File: BG033262.D

Acq: 20 Mar 2018 5:08

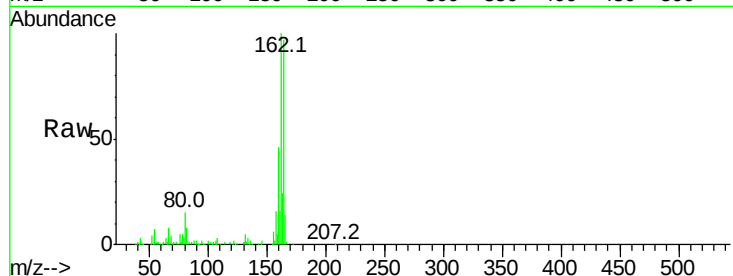
Instrument :

BNA\_G

ClientSampleId :

Tot Ion:164 Resp: 126915

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 103.1 | 78.8  | 118.2 |
| 160 | 47.3  | 35.4  | 53.0  |

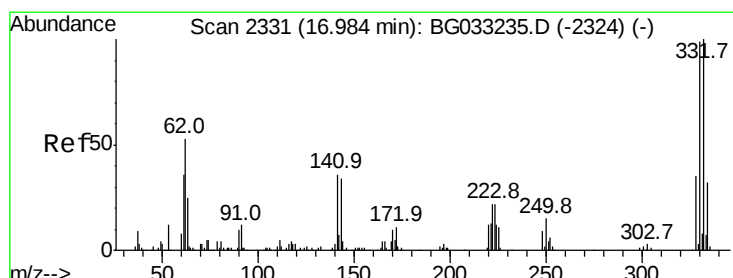
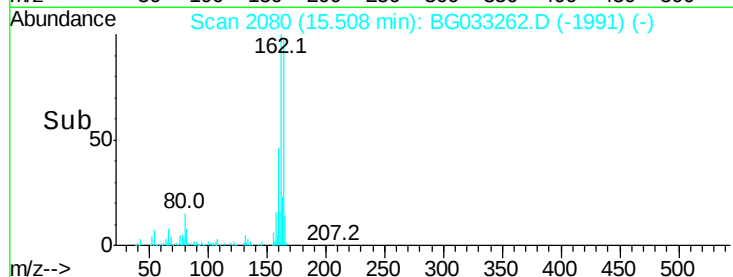
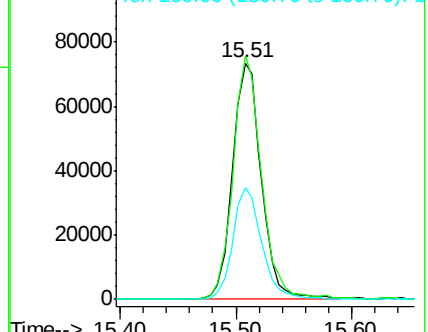


Abundance

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: 98.420 ng

RT: 16.98 min Scan# 2331

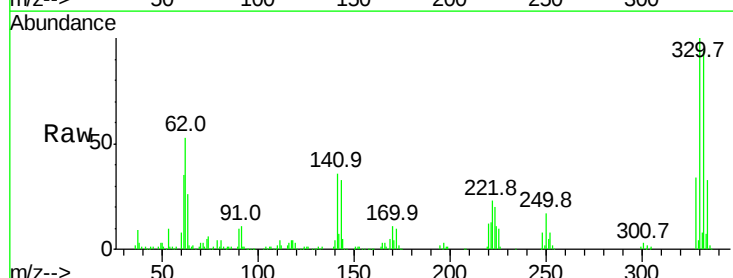
Delta R.T. -0.00 min

Lab File: BG033262.D

Acq: 20 Mar 2018 5:08

Tgt Ion:330 Resp: 186817

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 330 | 100   |       |       |
| 332 | 95.7  | 77.0  | 115.6 |
| 141 | 36.3  | 25.2  | 37.8  |

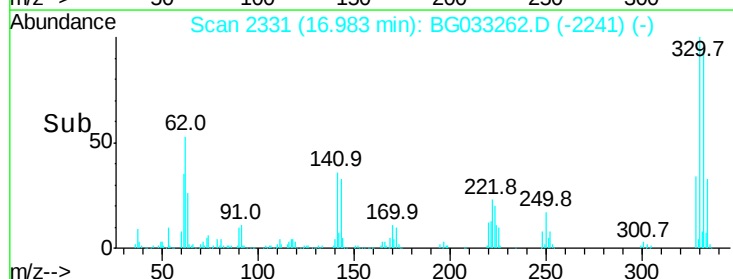
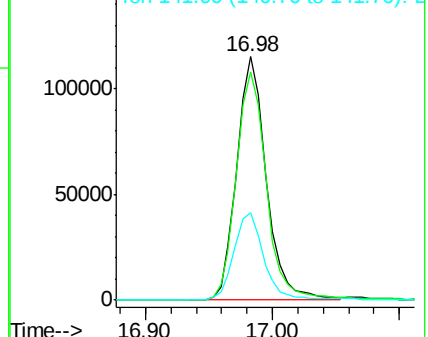


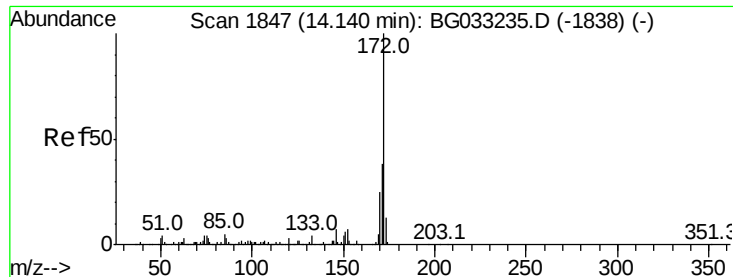
Abundance

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

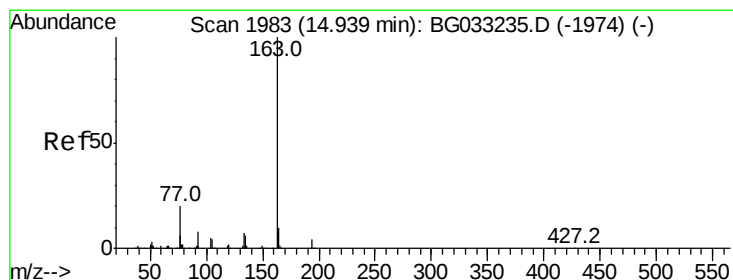
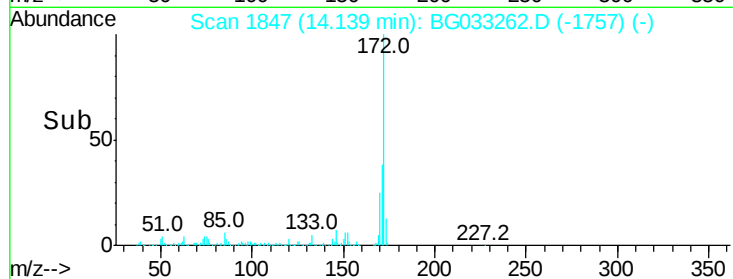
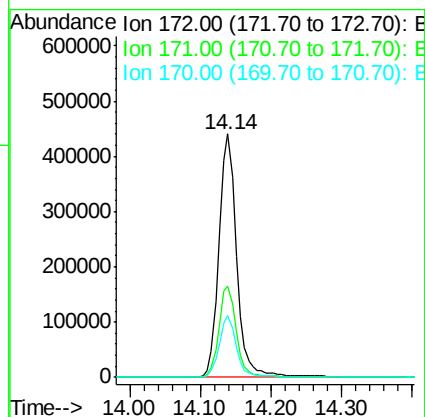
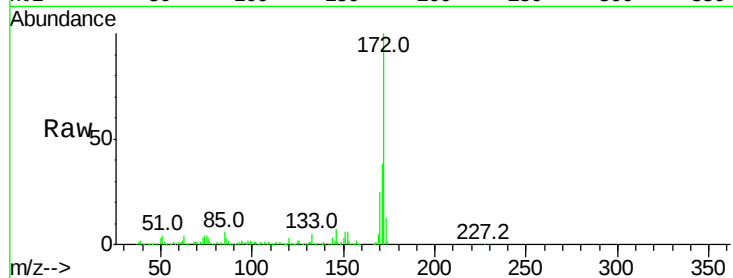




#44  
2-Fluorobiphenyl  
Concen: 87.944 ng  
RT: 14.14 min Scan# 1847  
Delta R.T. -0.00 min  
Lab File: BG033262.D  
Acq: 20 Mar 2018 5:08

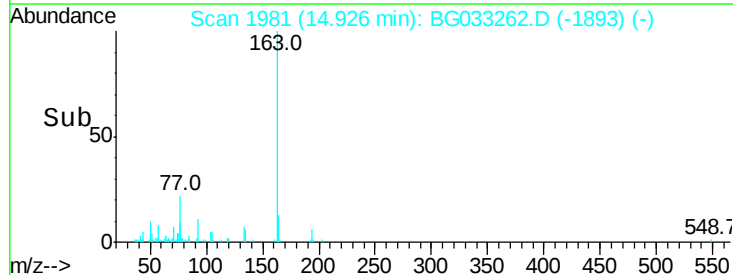
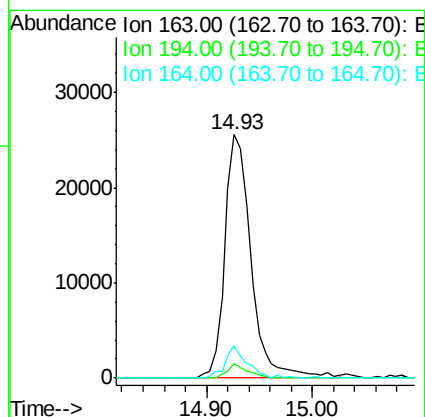
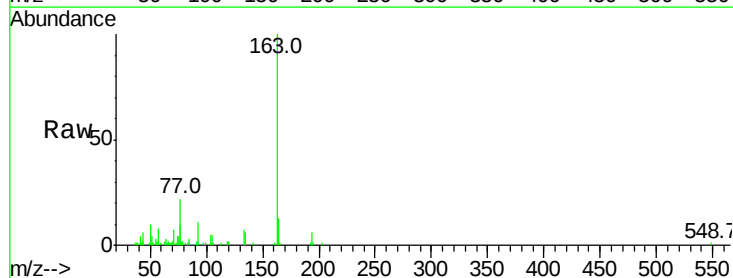
Instrument :  
BNA\_G  
ClientSampleId :

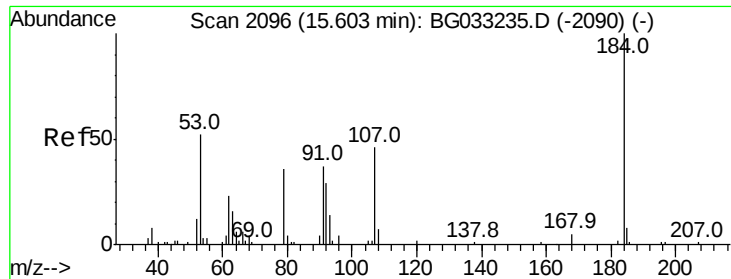
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.6  | 30.0  | 45.0  |
| 170     | 25.4  | 19.5  | 29.3  |



#49  
Dimethylphthalate  
Concen: 3.997 ng  
RT: 14.93 min Scan# 1981  
Delta R.T. -0.01 min  
Lab File: BG033262.D  
Acq: 20 Mar 2018 5:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 5.8   | 3.4   | 5.2#  |
| 164     | 13.3  | 8.2   | 12.4# |

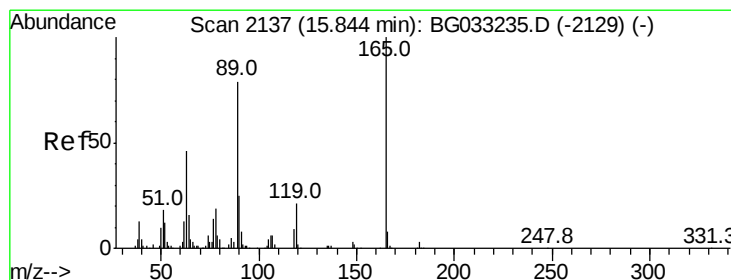
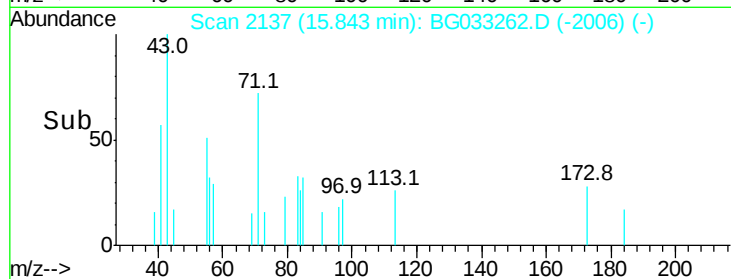
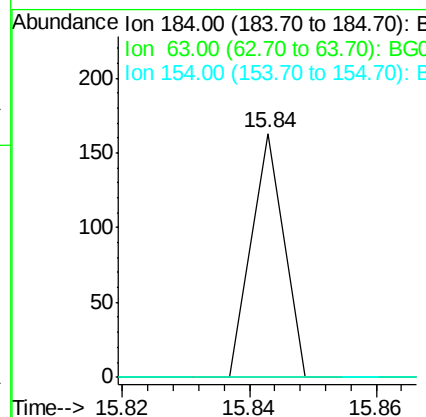
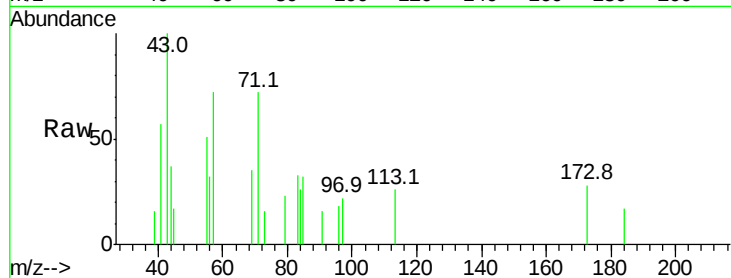




#53  
 2,4-Dinitrophenol  
 Concen: 7.687 ng  
 RT: 15.84 min Scan# 2137  
 Delta R.T. 0.24 min  
 Lab File: BG033262.D  
 Acq: 20 Mar 2018 5:08

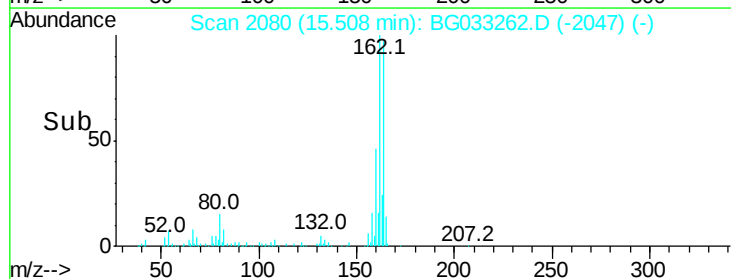
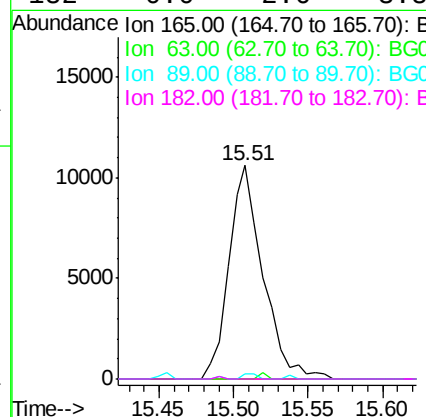
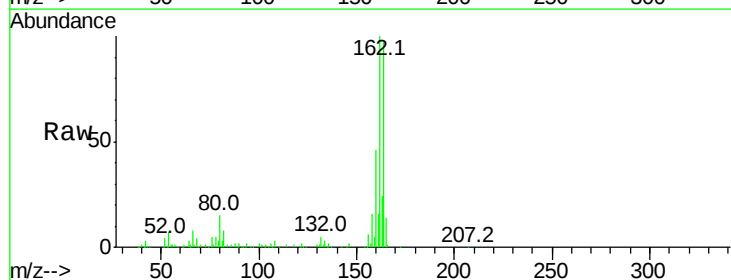
Instrument :  
 BNA\_G  
 ClientSampleId :

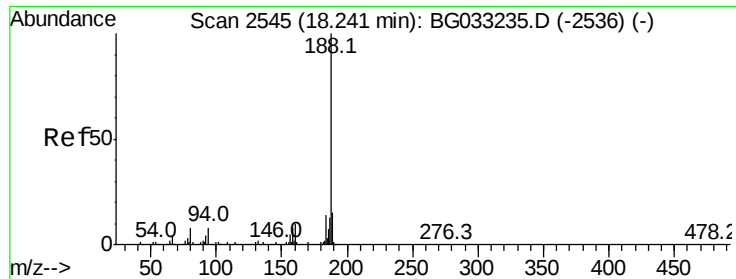
Tot Ion:184 Resp: 57  
 Ion Ratio Lower Upper  
 184 100  
 63 0.0 59.8 89.8#  
 154 0.0 101.8 152.8#



#56  
 2,4-Dinitrotoluene  
 Concen: 5.095 ng  
 RT: 15.51 min Scan# 2080  
 Delta R.T. -0.34 min  
 Lab File: BG033262.D  
 Acq: 20 Mar 2018 5:08

Tgt Ion:165 Resp: 16942  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 42.0 63.0#  
 89 2.3 66.9 100.3#  
 182 0.0 2.6 3.8#





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 18.24 min Scan# 2545

Delta R.T. -0.00 min

Lab File: BG033262.D

Acq: 20 Mar 2018 5:08

Instrument :

BNA\_G

ClientSampleId :

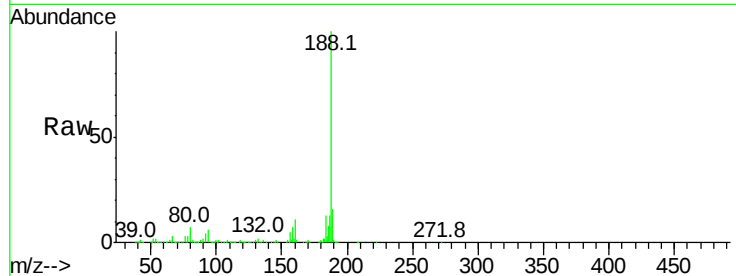
Tot Ion:188 Resp: 346141

Ion Ratio Lower Upper

188 100

94 6.1 6.9 10.3#

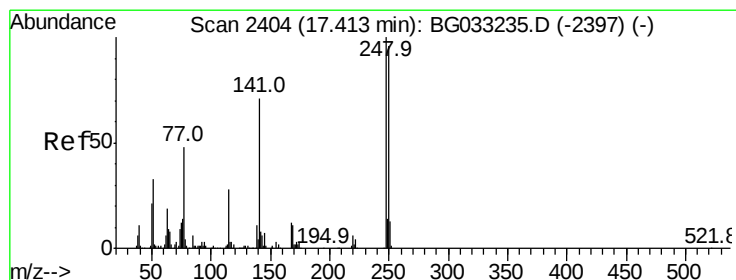
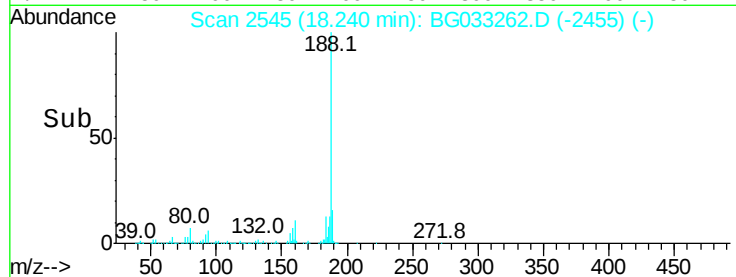
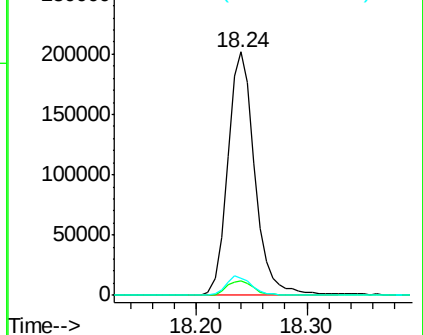
80 7.3 7.7 11.5#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC



#66

4-Bromophenyl-phenylether

Concen: 3.607 ng

RT: 16.98 min Scan# 2331

Delta R.T. -0.43 min

Lab File: BG033262.D

Acq: 20 Mar 2018 5:08

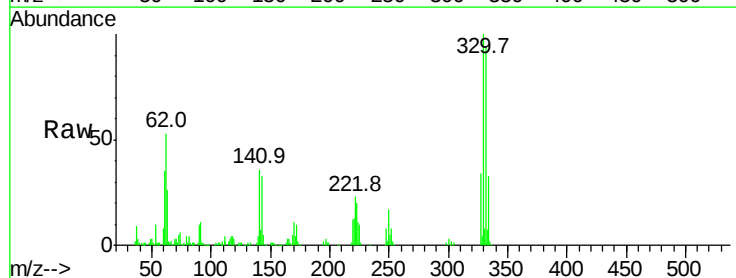
Tgt Ion:248 Resp: 14663

Ion Ratio Lower Upper

248 100

250 212.5 77.1 115.7#

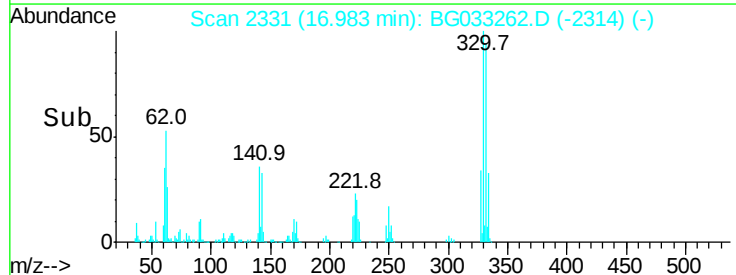
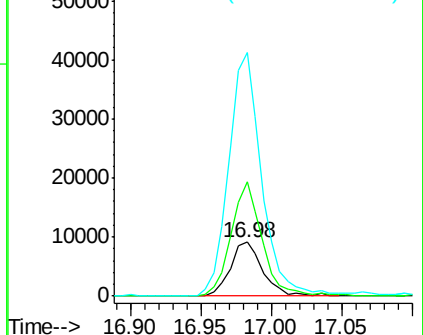
141 453.4 50.8 76.2#

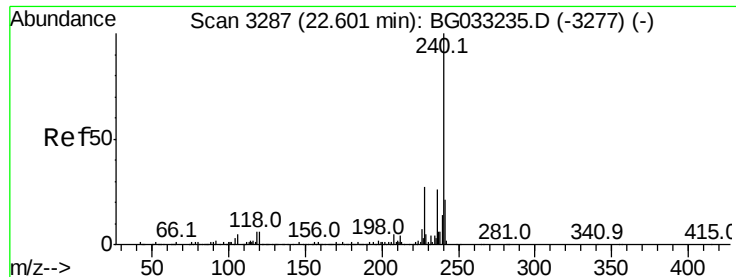


Abundance Ion 248.00 (247.70 to 248.70): E

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: 22.59 min Scan# 3286

Delta R.T. -0.01 min

Lab File: BG033262.D

Acq: 20 Mar 2018 5:08

Instrument :

BNA\_G

ClientSampleId :

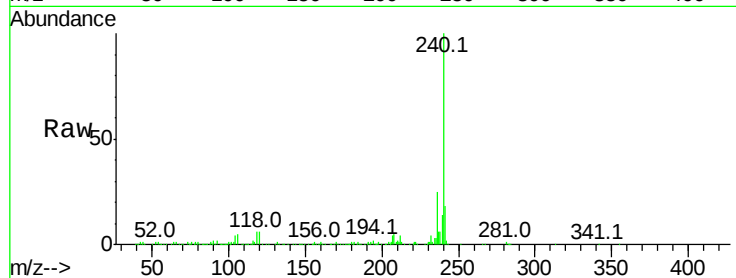
Tot Ion:240 Resp: 360147

Ion Ratio Lower Upper

240 100

120 5.9 6.8 10.2#

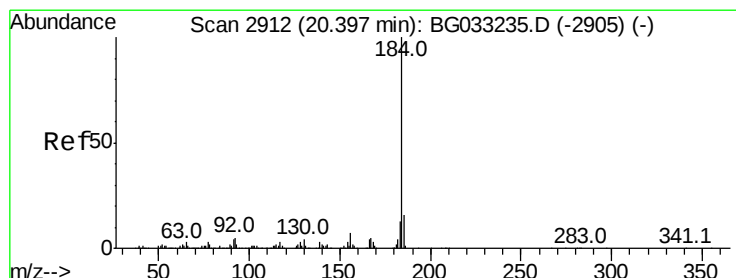
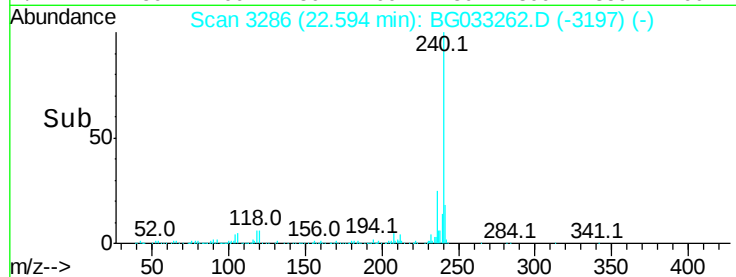
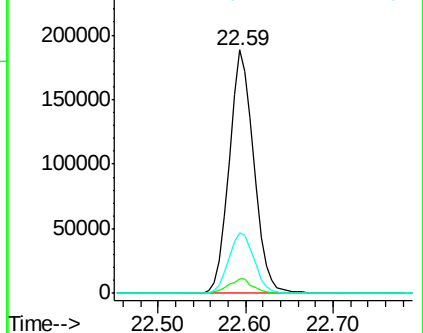
236 24.7 20.9 31.3



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



#76

Benzidine

Concen: 2.557 ng

RT: 20.76 min Scan# 2974

Delta R.T. 0.36 min

Lab File: BG033262.D

Acq: 20 Mar 2018 5:08

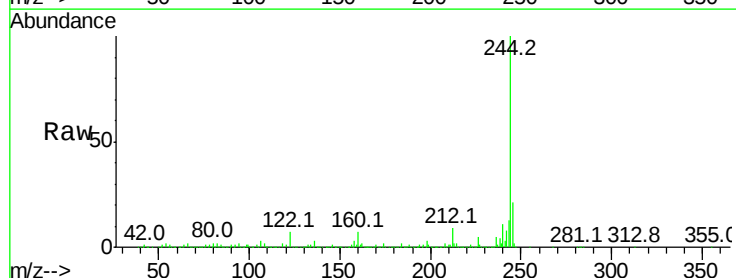
Tgt Ion:184 Resp: 24969

Ion Ratio Lower Upper

184 100

185 14.6 11.1 16.7

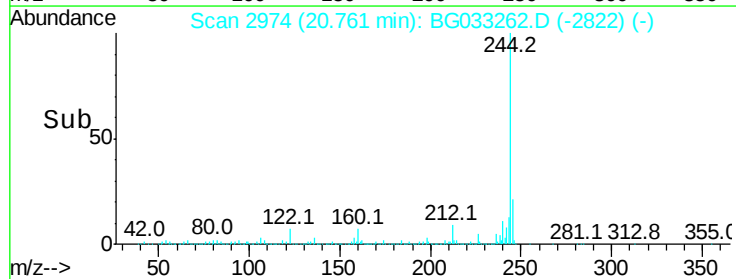
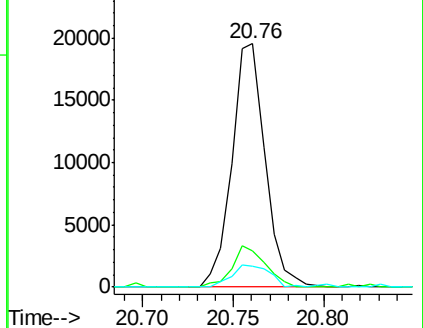
183 8.8 10.6 16.0#

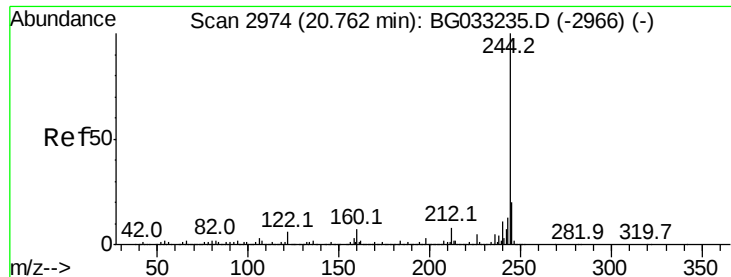


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E

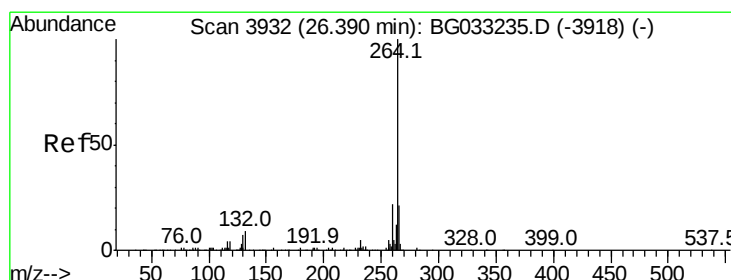
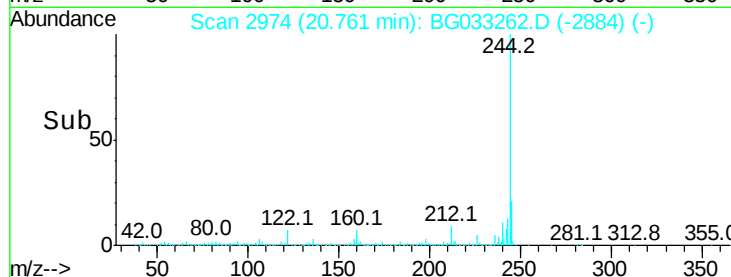
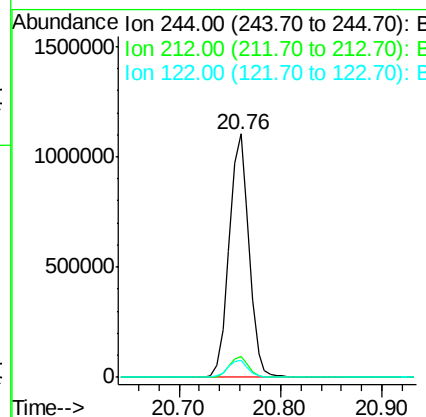
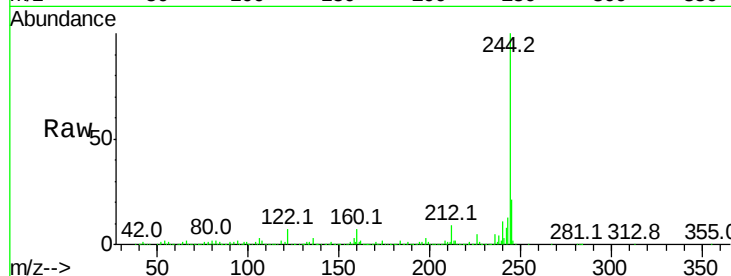




#78  
 Terphenyl-d14  
 Concen: 88.870 ng  
 RT: 20.76 min Scan# 2974  
 Delta R.T. -0.00 min  
 Lab File: BG033262.D  
 Acq: 20 Mar 2018 5:08

Instrument :  
 BNA\_G  
 ClientSampled :

Tot Ion:244 Resp: 1496597  
 Ion Ratio Lower Upper  
 244 100  
 212 8.6 5.8 8.8  
 122 6.8 7.0 10.4#



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 26.40 min Scan# 3933  
 Delta R.T. -0.00 min  
 Lab File: BG033262.D  
 Acq: 20 Mar 2018 5:08

Tgt Ion:264 Resp: 372372  
 Ion Ratio Lower Upper  
 264 100  
 260 24.6 17.4 26.0  
 265 20.9 17.7 26.5

