

Data Path : Z:\HPCHEM1\BNA G\DATA\BG032918\  
 Data File : BG033445.D  
 Acq On : 30 Mar 2018 8:45  
 Operator : SJ/JU  
 Sample : J2102-02  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

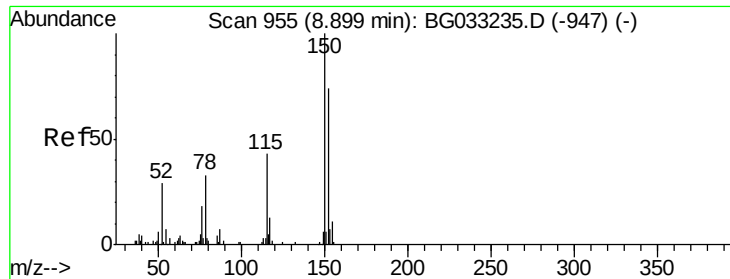
Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Mar 30 10:50:25 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG031918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 28 18:34:58 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.87  | 152  | 31444    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 11.75 | 136  | 138358   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 15.48 | 164  | 107901   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 18.21 | 188  | 314970   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 22.56 | 240  | 350311   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 26.33 | 264  | 366631   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 6.30  | 112  | 280533   | 167.29 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.98  | 99   | 391846   | 136.00 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 10.07 | 82   | 316343   | 105.05 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 16.96 | 330  | 271370   | 168.16 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 14.11 | 172  | 778271   | 104.13 | ng    | 0.00     |
| 78) Terphenyl-d14              | 20.74 | 244  | 1709509  | 104.36 | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 15) Benzyl Alcohol             | 9.20  | 79   | 5387     | 2.375  | ng    | # 38     |
| 19) n-Nitroso-di-n-propylamine | 10.07 | 70   | 44799    | 21.219 | ng    | # 73     |
| 50) 2,6-Dinitrotoluene         | 14.97 | 165  | 8039     | 4.187  | ng    | # 18     |
| 53) 2,4-Dinitrophenol          | 15.90 | 184  | 67       | 7.704  | ng    | # 1      |
| 56) 2,4-Dinitrotoluene         | 15.48 | 165  | 13301    | 4.705  | ng    | # 19     |
| 66) 4-Bromophenyl-phenylether  | 16.96 | 248  | 19999    | 5.407  | ng    | # 1      |
| 76) Benzidine                  | 20.74 | 184  | 28796    | 3.031  | ng    | # 91     |

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



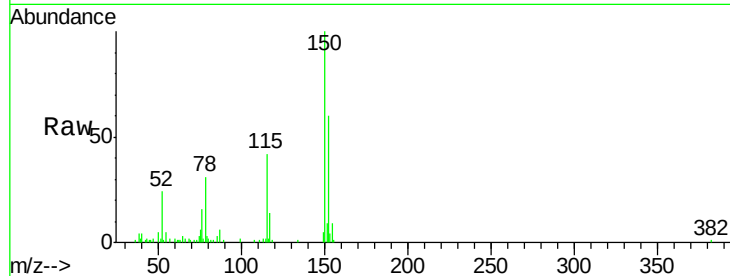


#1

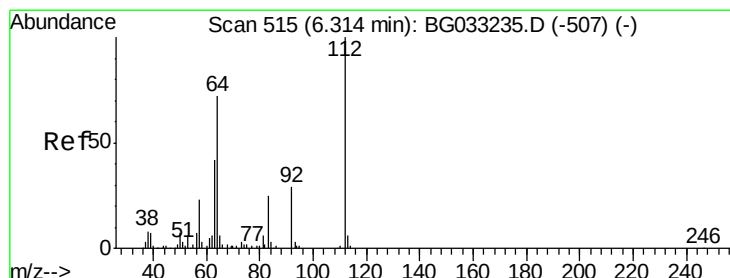
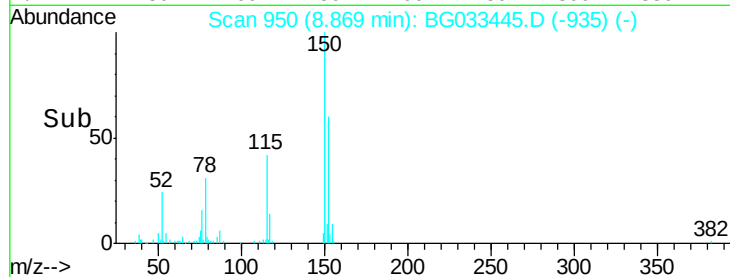
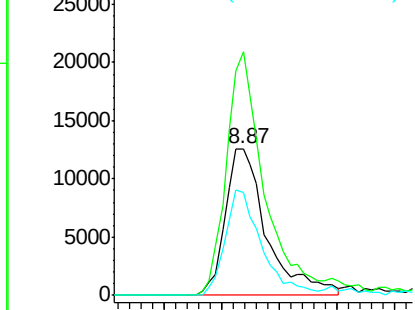
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.87 min Scan# 950  
Delta R.T. -0.01 min  
Lab File: BG033445.D  
Acq: 30 Mar 2018 8:45

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 166.0 | 126.6 | 189.8 |
| 115     | 69.9  | 53.0  | 79.4  |



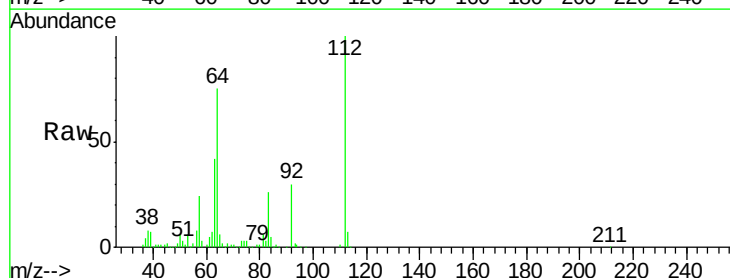
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



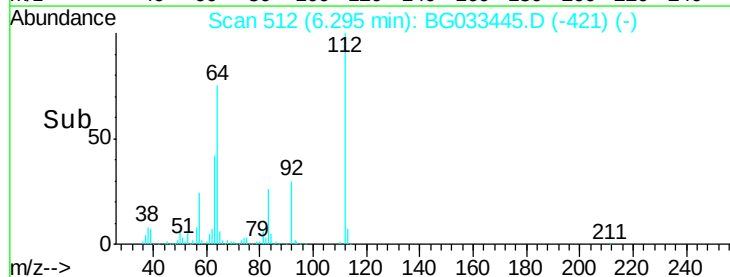
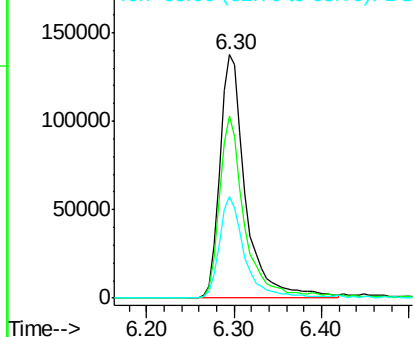
#5

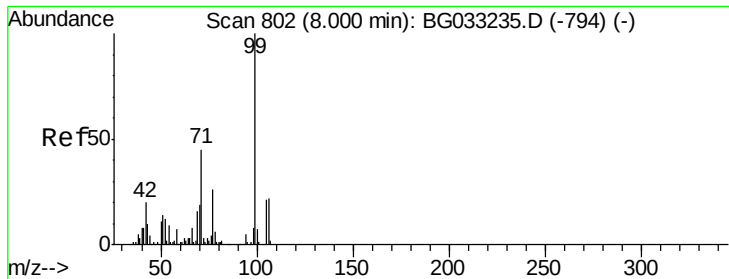
2-Fluorophenol  
Concen: 167.292 ng  
RT: 6.30 min Scan# 512  
Delta R.T. 0.00 min  
Lab File: BG033445.D  
Acq: 30 Mar 2018 8:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 75.0  | 56.3  | 84.5  |
| 63      | 41.8  | 30.1  | 45.1  |



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BG0  
Ion 63.00 (62.70 to 63.70): BG0





#7

Phenol-d6

Concen: 135.998 ng

RT: 7.98 min Scan# 799

Delta R.T. 0.00 min

Lab File: BG033445.D

Acq: 30 Mar 2018 8:45

Instrument :

BNA\_G

ClientSampleId :

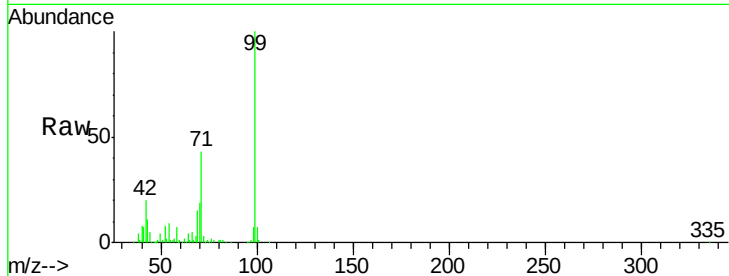
Tot Ion: 99 Resp: 391846

Ion Ratio Lower Upper

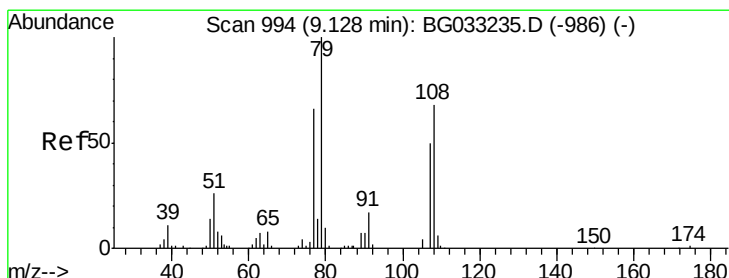
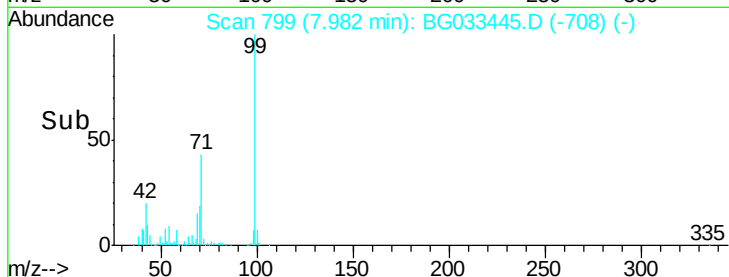
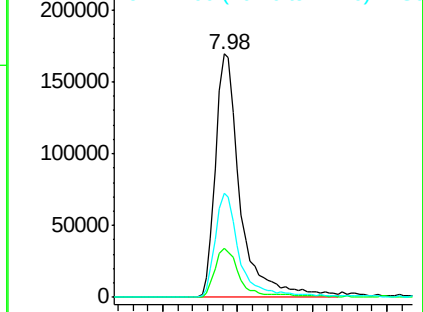
99 100

42 20.3 14.1 21.1

71 42.6 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



#15

Benzyl Alcohol

Concen: 2.375 ng

RT: 9.20 min Scan# 1006

Delta R.T. 0.09 min

Lab File: BG033445.D

Acq: 30 Mar 2018 8:45

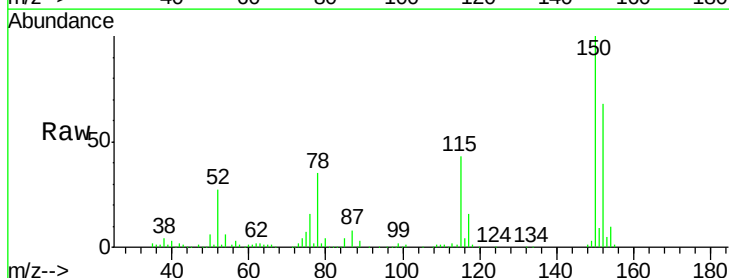
Tgt Ion: 79 Resp: 5387

Ion Ratio Lower Upper

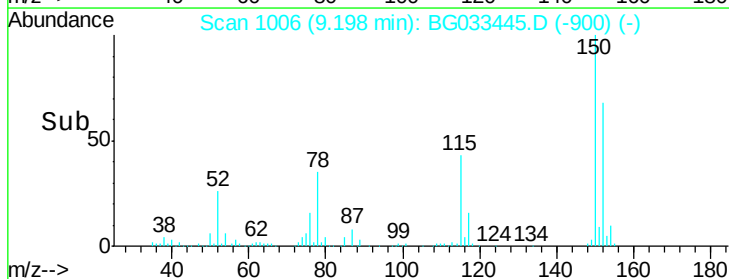
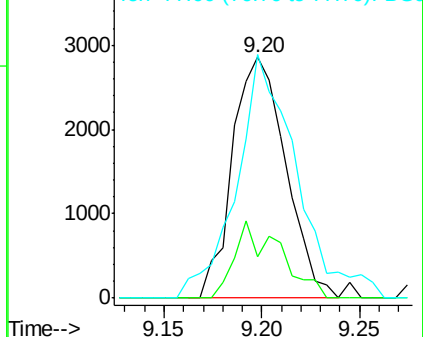
79 100

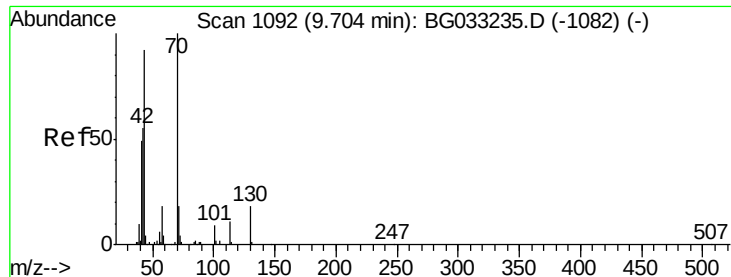
108 17.3 57.2 85.8#

77 101.2 46.1 69.1#



Abundance Ion 79.00 (78.70 to 79.70): BGC  
Ion 108.00 (107.70 to 108.70): BGC  
Ion 77.00 (76.70 to 77.70): BGC

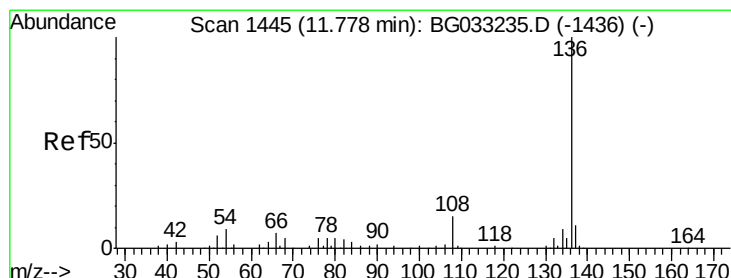
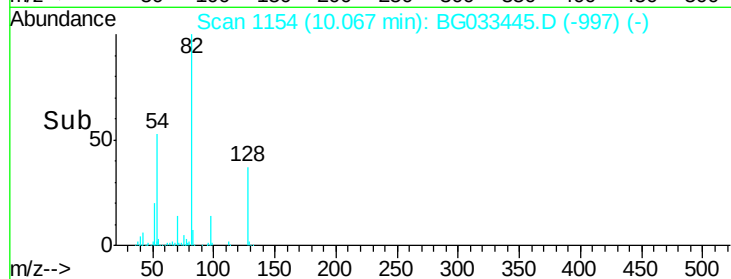
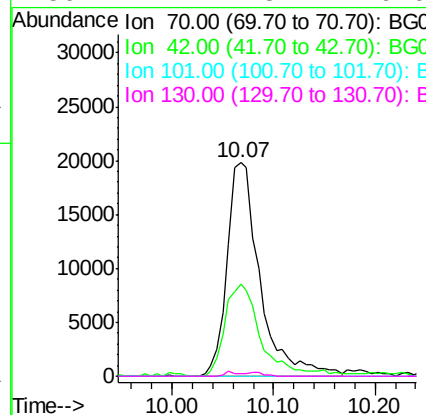
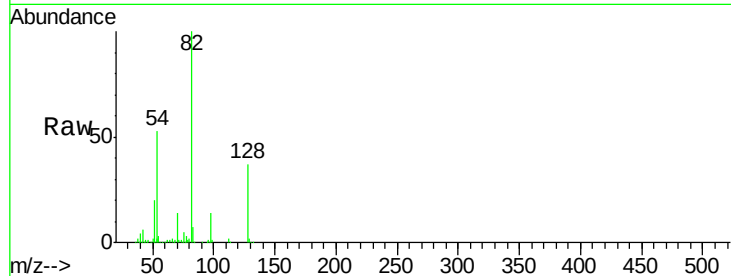




#19  
 n-Nitroso-di-n-propylamine  
 Concen: 21.219 ng  
 RT: 10.07 min Scan# 1154  
 Delta R.T. 0.39 min  
 Lab File: BG033445.D  
 Acq: 30 Mar 2018 8:45

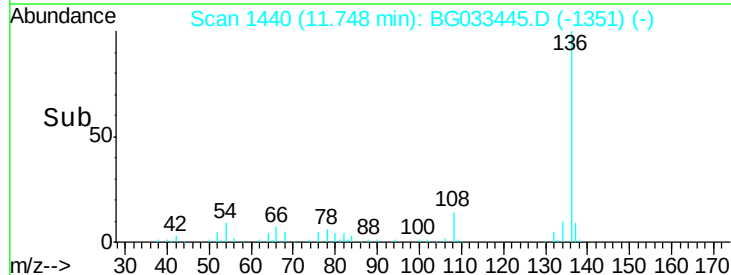
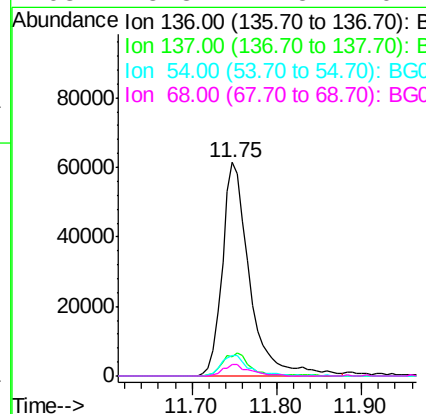
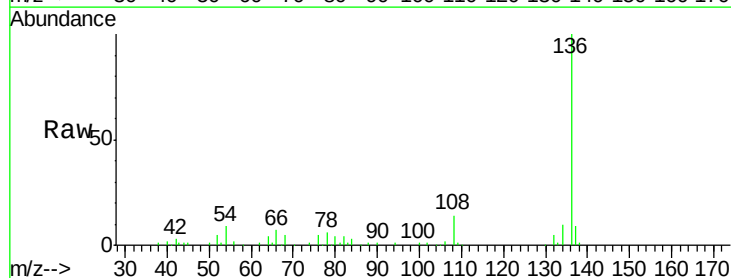
Instrument :  
 BNA\_G  
 ClientSampleId :

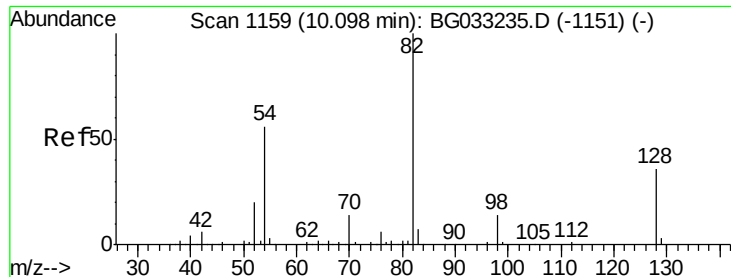
| Tot Ion   | 70    | Resp  | 44799 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 70        | 100   |       |       |
| 42        | 43.1  | 49.1  | 73.7# |
| 101       | 0.0   | 8.5   | 12.7# |
| 130       | 1.2   | 13.4  | 20.0# |



#21  
 Naphthalene-d8  
 Concen: 20.000 ng  
 RT: 11.75 min Scan# 1440  
 Delta R.T. -0.01 min  
 Lab File: BG033445.D  
 Acq: 30 Mar 2018 8:45

| Tgt Ion   | 136   | Resp  | 138358 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 9.3   | 9.2   | 13.8   |
| 54        | 9.4   | 10.3  | 15.5#  |
| 68        | 5.3   | 4.5   | 6.7    |

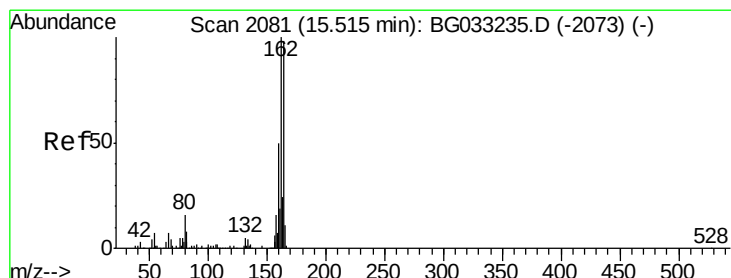
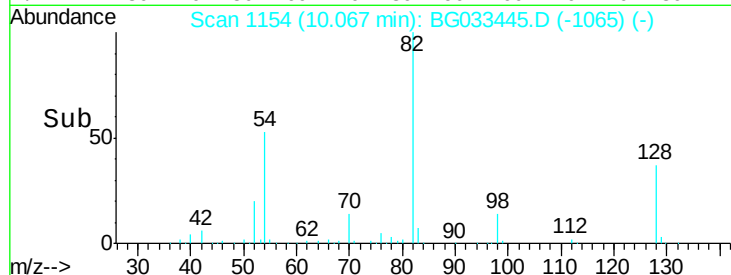
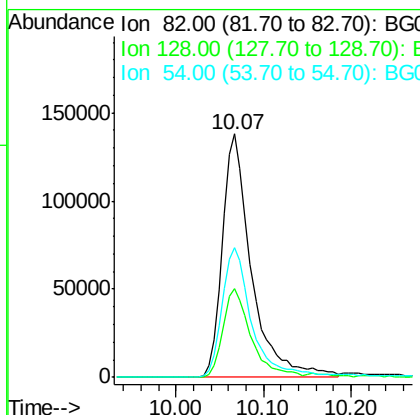
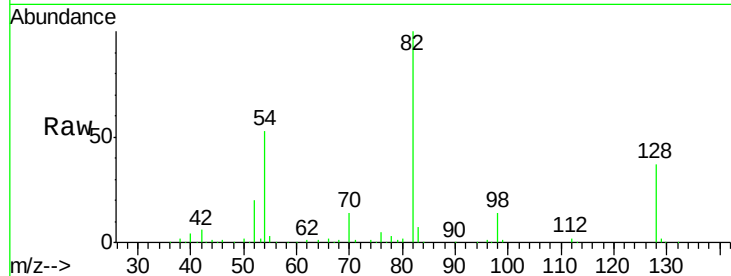




#23  
 Nitrobenzene-d5  
 Concen: 105.047 ng  
 RT: 10.07 min Scan# 1154  
 Delta R.T. -0.01 min  
 Lab File: BG033445.D  
 Acq: 30 Mar 2018 8:45

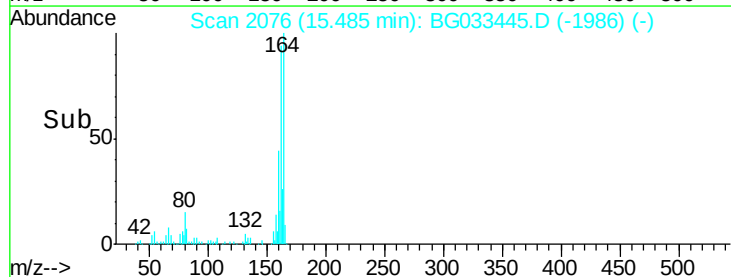
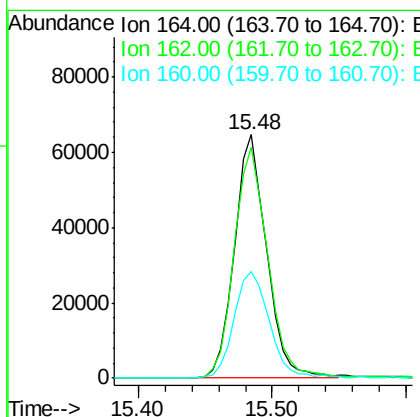
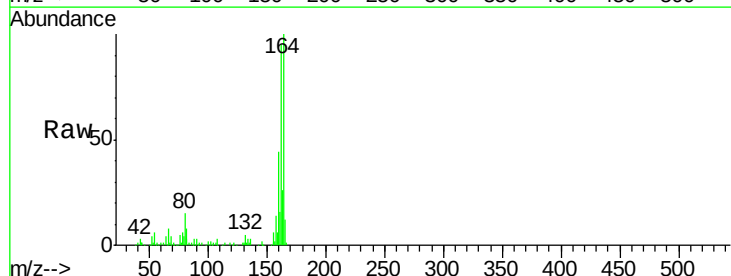
Instrument :  
 BNA\_G  
 ClientSampleId :

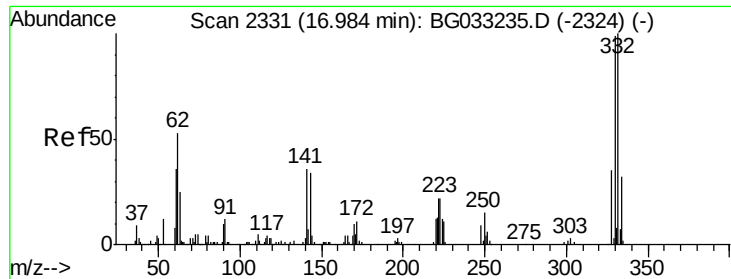
| Tot Ion   | 82    | Resp  | 316343 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 36.6  | 29.7  | 44.5   |
| 54        | 53.2  | 43.1  | 64.7   |



#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 15.48 min Scan# 2076  
 Delta R.T. -0.00 min  
 Lab File: BG033445.D  
 Acq: 30 Mar 2018 8:45

| Tgt Ion   | 164   | Resp  | 107901 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 94.7  | 78.8  | 118.2  |
| 160       | 43.6  | 35.4  | 53.0   |

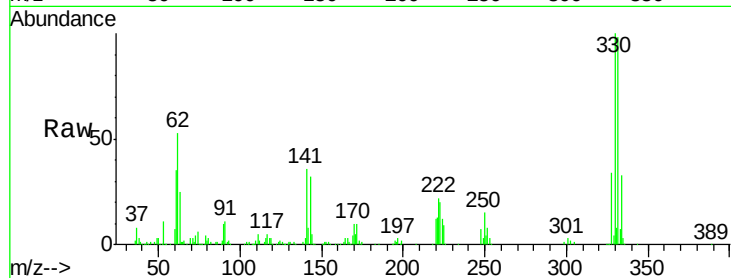




#41  
 2,4,6-Tribromophenol  
 Concen: 168.157 ng  
 RT: 16.96 min Scan# 2327  
 Delta R.T. 0.00 min  
 Lab File: BG033445.D  
 Acq: 30 Mar 2018 8:45

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.9  | 77.0  | 115.6 |
| 141     | 37.4  | 25.2  | 37.8  |

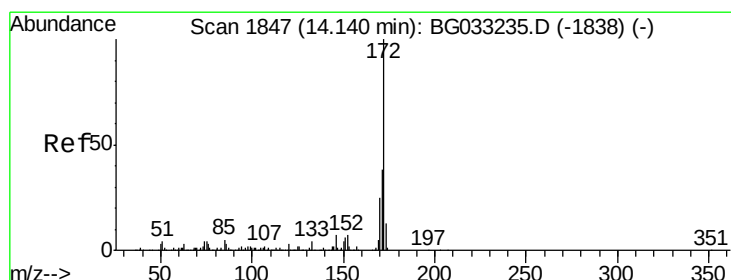
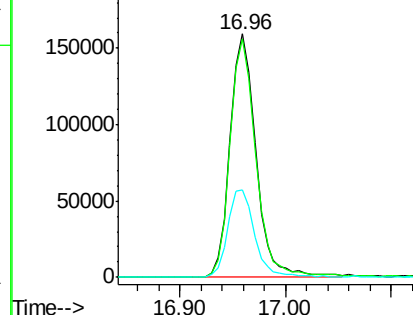
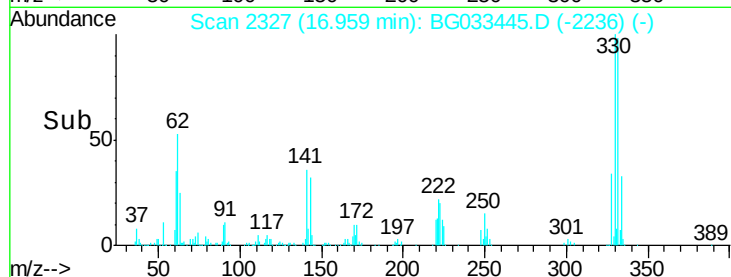


Abundance

Ion 329.80 (329.50 to 330.50): E

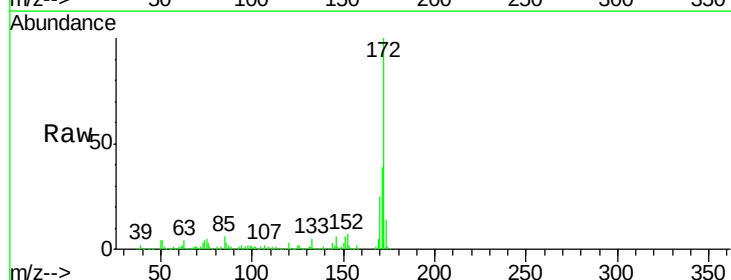
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44  
 2-Fluorobiphenyl  
 Concen: 104.127 ng  
 RT: 14.11 min Scan# 1842  
 Delta R.T. -0.00 min  
 Lab File: BG033445.D  
 Acq: 30 Mar 2018 8:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 38.5  | 30.0  | 45.0  |
| 170     | 25.1  | 19.5  | 29.3  |

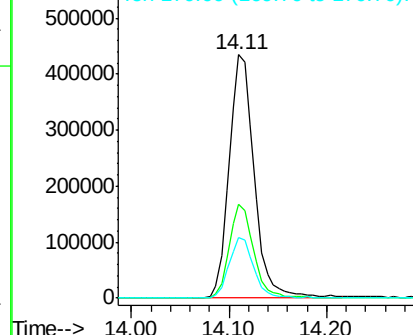
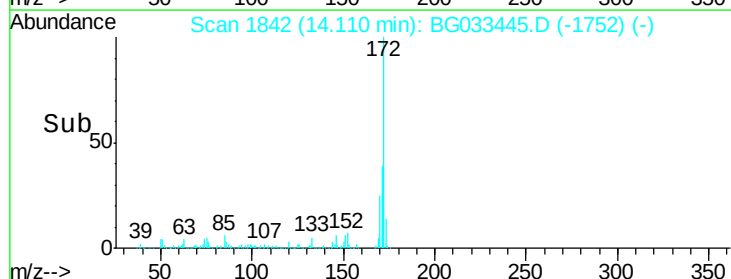


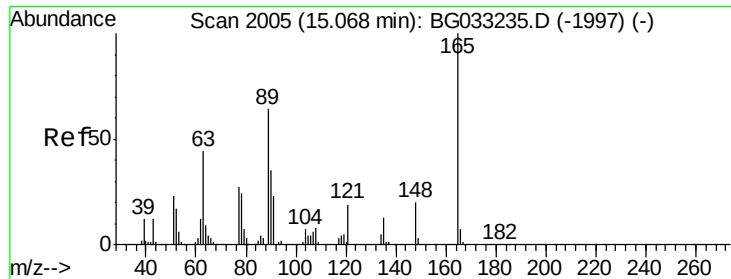
Abundance

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

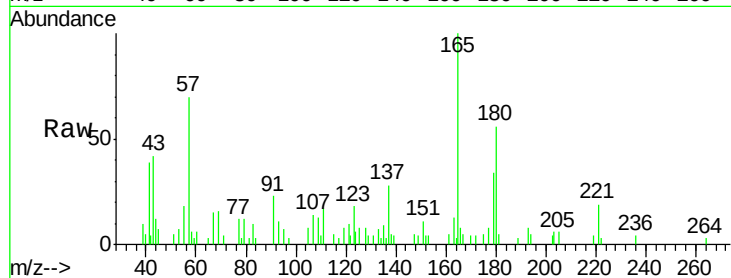




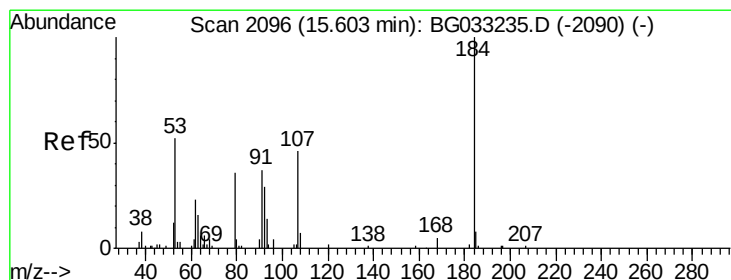
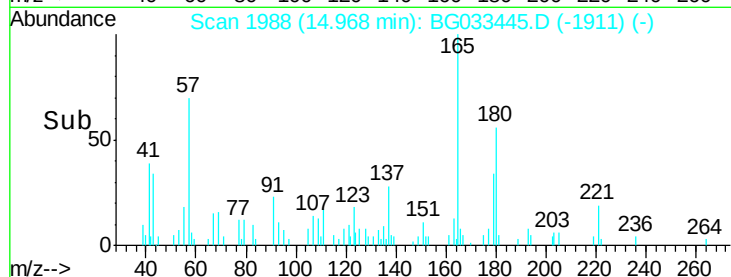
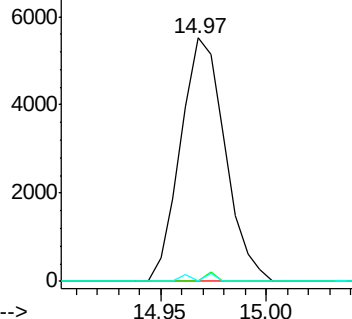
#50  
2,6-Dinitrotoluene  
Concen: 4.187 ng  
RT: 14.97 min Scan# 1988  
Delta R.T. -0.08 min  
Lab File: BG033445.D  
Acq: 30 Mar 2018 8:45

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:165 Resp: 8039  
Ion Ratio Lower Upper  
165 100  
63 0.0 52.7 79.1#  
89 0.0 49.2 73.8#

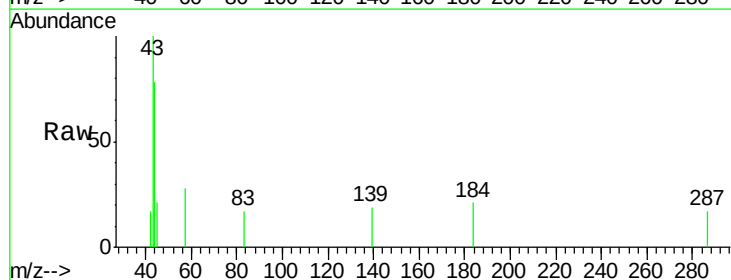


Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BGC  
Ion 89.00 (88.70 to 89.70): BGC

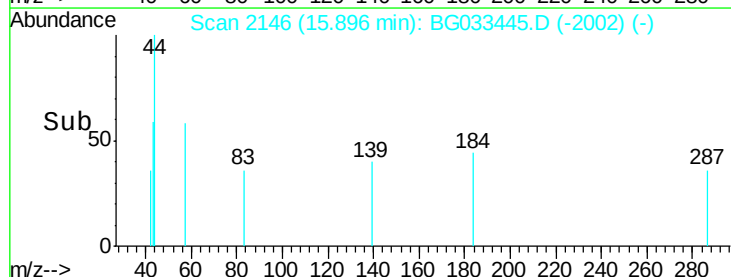
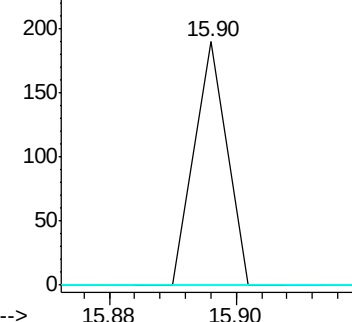


#53  
2,4-Dinitrophenol  
Concen: 7.704 ng  
RT: 15.90 min Scan# 2146  
Delta R.T. 0.31 min  
Lab File: BG033445.D  
Acq: 30 Mar 2018 8:45

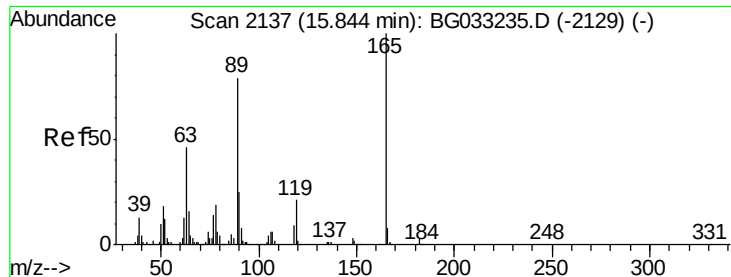
Tgt Ion:184 Resp: 67  
Ion Ratio Lower Upper  
184 100  
63 0.0 59.8 89.8#  
154 0.0 101.8 152.8#



Abundance Ion 184.00 (183.70 to 184.70): E  
Ion 63.00 (62.70 to 63.70): BGC  
Ion 154.00 (153.70 to 154.70): BGC



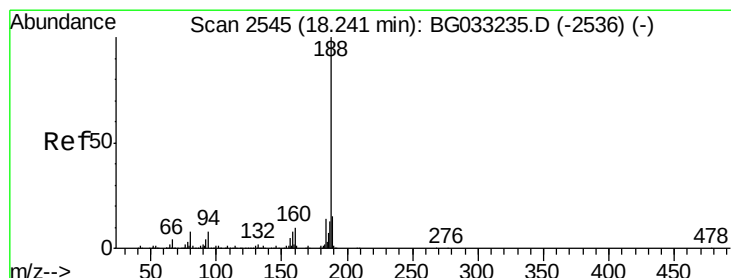
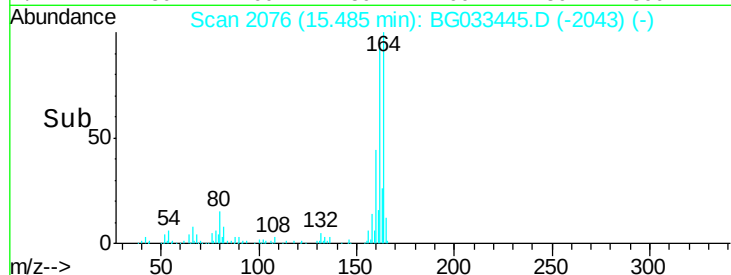
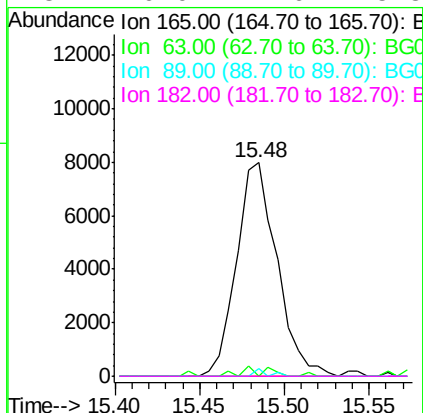
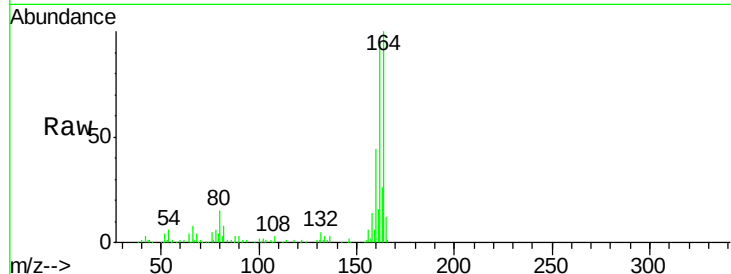




#56  
 2,4-Dinitrotoluene  
 Concen: 4.705 ng  
 RT: 15.48 min Scan# 2076  
 Delta R.T. -0.34 min  
 Lab File: BG033445.D  
 Acq: 30 Mar 2018 8:45

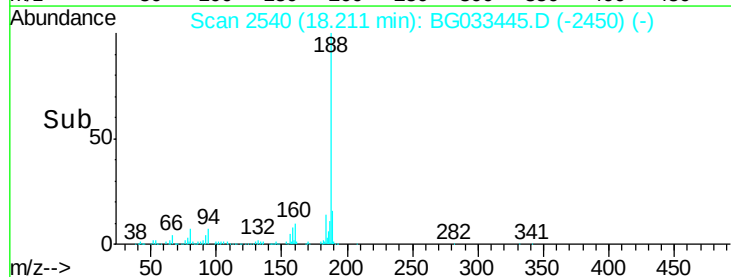
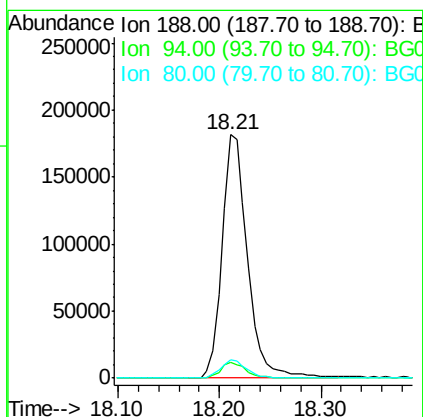
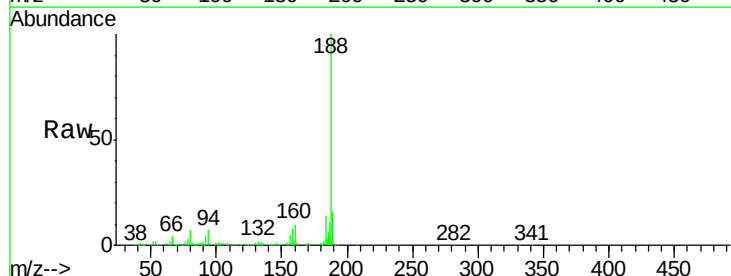
Instrument :  
 BNA\_G  
 ClientSampleId :

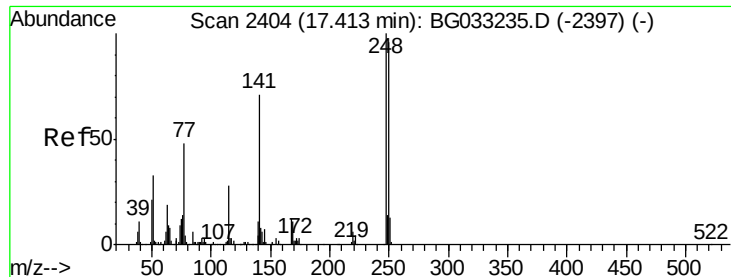
| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 165     | 100   |       |        |
| 63      | 0.0   | 42.0  | 63.0#  |
| 89      | 3.7   | 66.9  | 100.3# |
| 182     | 0.0   | 2.6   | 3.8#   |



#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 18.21 min Scan# 2540  
 Delta R.T. -0.00 min  
 Lab File: BG033445.D  
 Acq: 30 Mar 2018 8:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 6.7   | 6.9   | 10.3# |
| 80      | 7.4   | 7.7   | 11.5# |

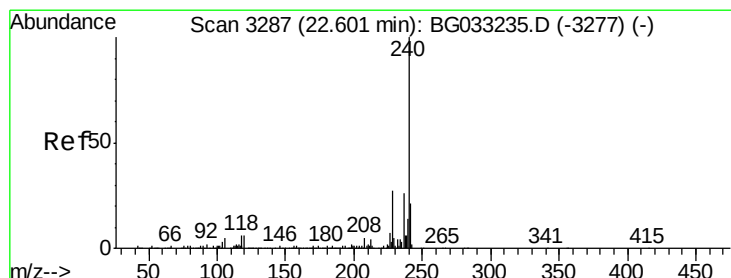
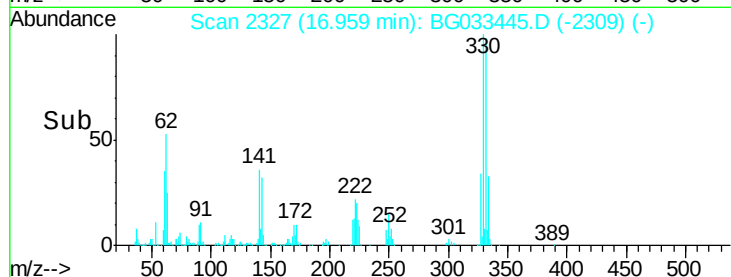
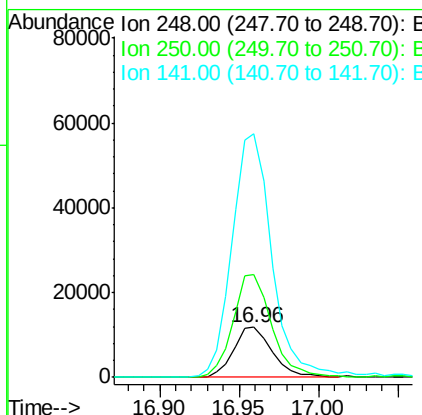
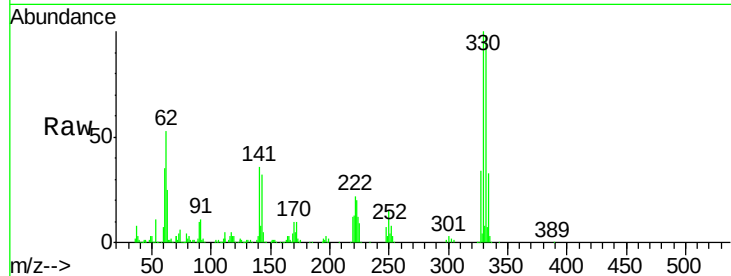




#66  
4-Bromophenyl-phenylether  
Concen: 5.407 ng  
RT: 16.96 min Scan# 2327  
Delta R.T. -0.43 min  
Lab File: BG033445.D  
Acq: 30 Mar 2018 8:45

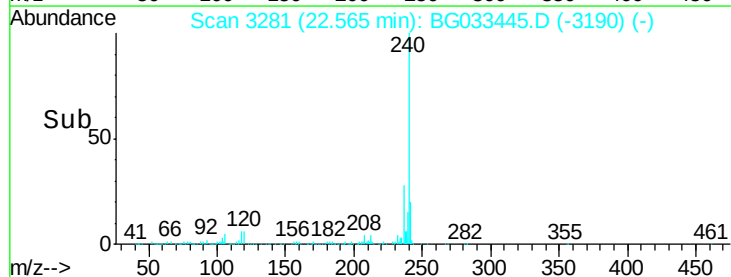
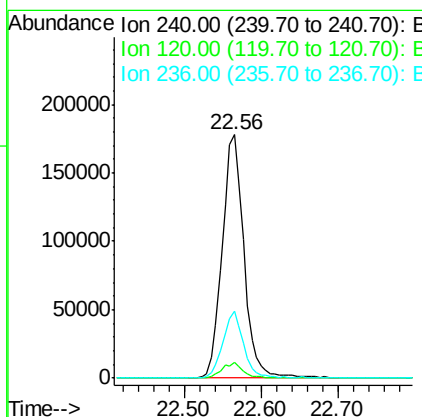
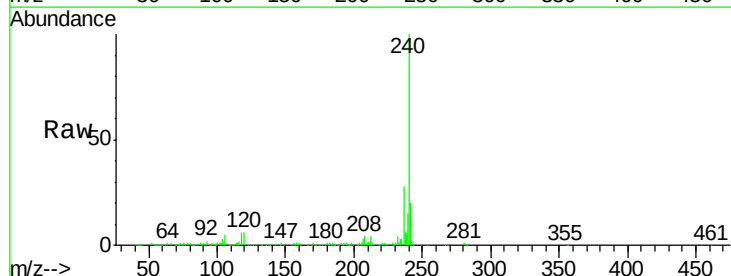
Instrument :  
BNA\_G  
ClientSampled :

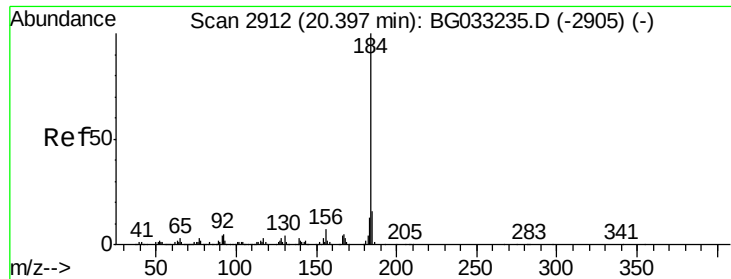
Tot Ion:248 Resp: 19999  
Ion Ratio Lower Upper  
248 100  
250 205.2 77.1 115.7#  
141 486.8 50.8 76.2#



#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 22.56 min Scan# 3281  
Delta R.T. 0.00 min  
Lab File: BG033445.D  
Acq: 30 Mar 2018 8:45

Tgt Ion:240 Resp: 350311  
Ion Ratio Lower Upper  
240 100  
120 6.3 6.8 10.2#  
236 27.6 20.9 31.3





#76

Benzidine

Concen: 3.031 ng

RT: 20.74 min Scan# 2970

Delta R.T. 0.37 min

Lab File: BG033445.D

Acq: 30 Mar 2018 8:45

Instrument :

BNA\_G

ClientSampleId :

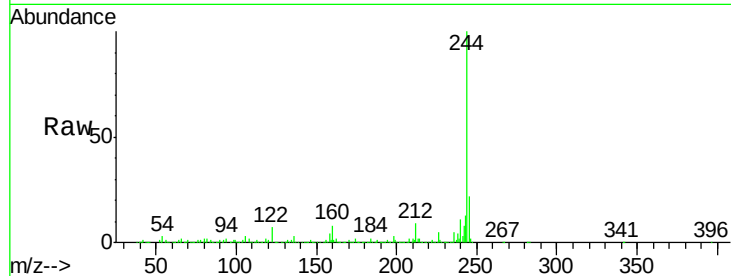
Tot Ion:184 Resp: 28796

Ion Ratio Lower Upper

184 100

185 16.3 11.1 16.7

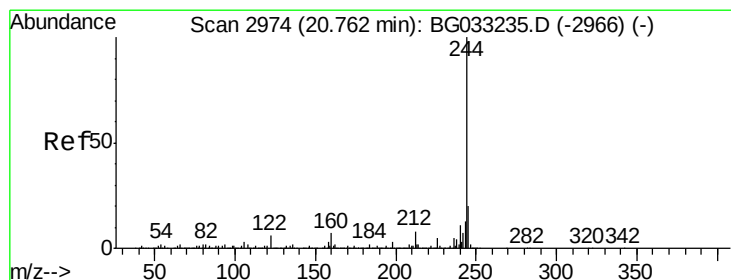
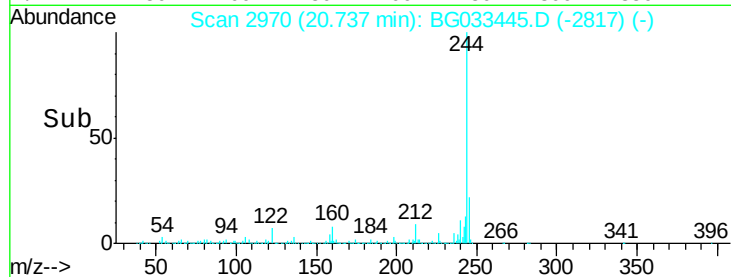
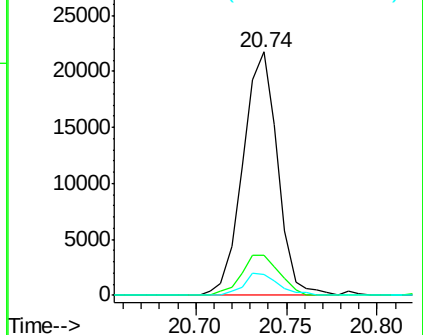
183 8.8 10.6 16.0#



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: 104.363 ng

RT: 20.74 min Scan# 2970

Delta R.T. 0.00 min

Lab File: BG033445.D

Acq: 30 Mar 2018 8:45

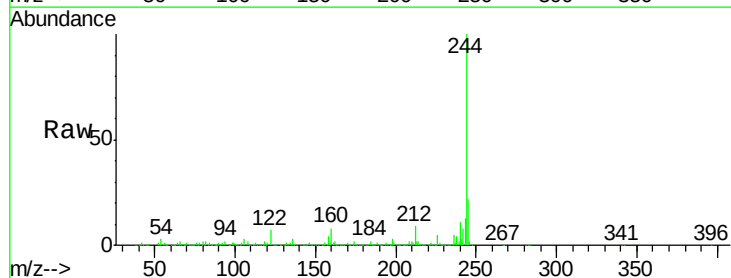
Tgt Ion:244 Resp: 1709509

Ion Ratio Lower Upper

244 100

212 8.8 5.8 8.8#

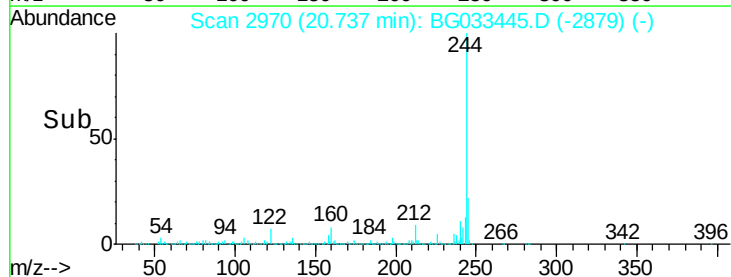
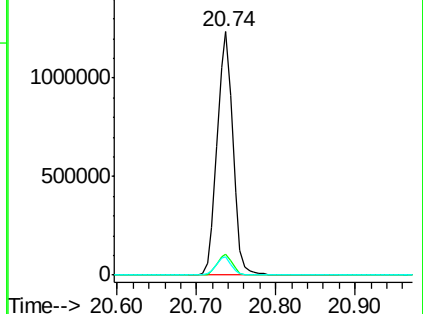
122 7.3 7.0 10.4

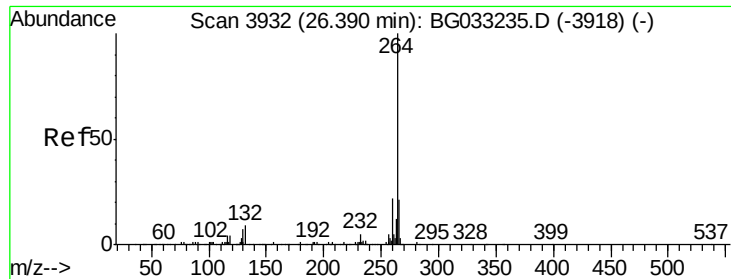


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

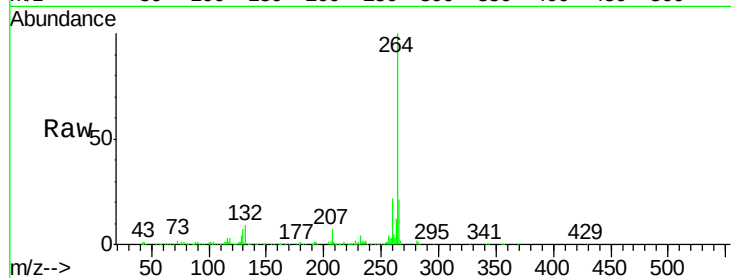




#86  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 26.33 min Scan# 3922  
 Delta R.T. -0.00 min  
 Lab File: BG033445.D  
 Acq: 30 Mar 2018 8:45

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.0  | 17.4  | 26.0  |
| 265     | 20.8  | 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

