

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG082718\  
 Data File : BG036450.D  
 Acq On : 28 Aug 2018 4:26  
 Operator : JU/SJ  
 Sample : J4621-05  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Aug 28 05:12:10 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG082318.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Aug 23 12:07:02 2018  
 Response via : Initial Calibration

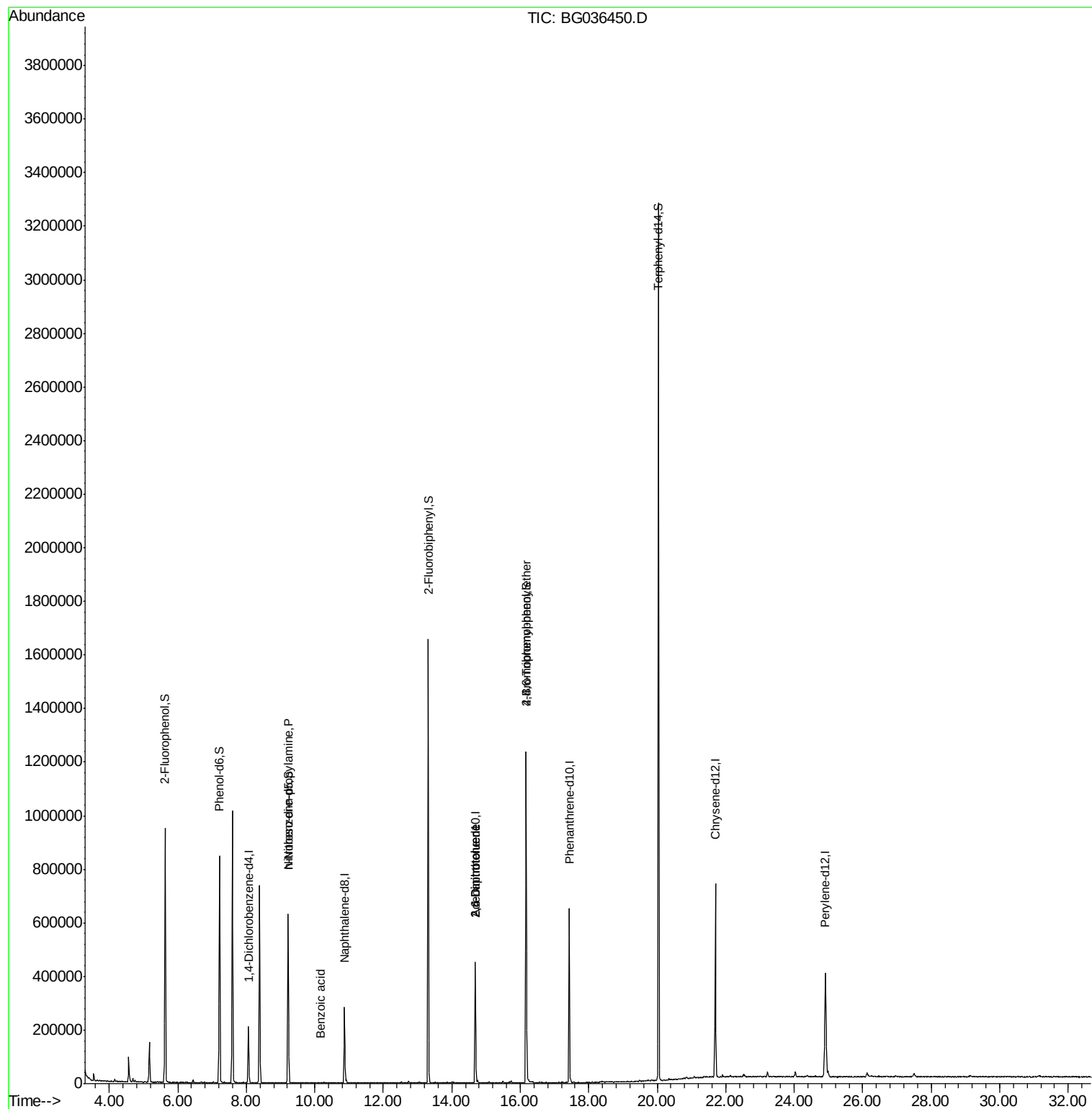
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.06  | 152  | 58175    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.87 | 136  | 241596   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 14.69 | 164  | 152152   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10           | 17.43 | 188  | 393444   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 21.70 | 240  | 429771   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12               | 24.91 | 264  | 424790   | 20.00  | ng    | -0.03    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.63  | 112  | 390078   | 106.37 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.22  | 99   | 479400   | 91.30  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.22  | 82   | 366921   | 82.40  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 16.17 | 330  | 231331   | 127.42 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 13.31 | 172  | 847383   | 79.52  | ng    | -0.01    |
| 78) Terphenyl-d14              | 20.04 | 244  | 1477220  | 80.34  | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.22  | 70   | 50326    | 12.825 | ng    | # 71     |
| 32) Benzoic acid               | 10.16 | 122  | 68       | 4.503  | ng    | # 1      |
| 50) 2,6-Dinitrotoluene         | 14.69 | 165  | 20292    | 7.937  | ng    | # 22     |
| 56) 2,4-Dinitrotoluene         | 14.69 | 165  | 20292    | 6.090  | ng    | # 20     |
| 66) 4-Bromophenyl-phenylether  | 16.17 | 248  | 16496    | 3.581  | ng    | # 1      |

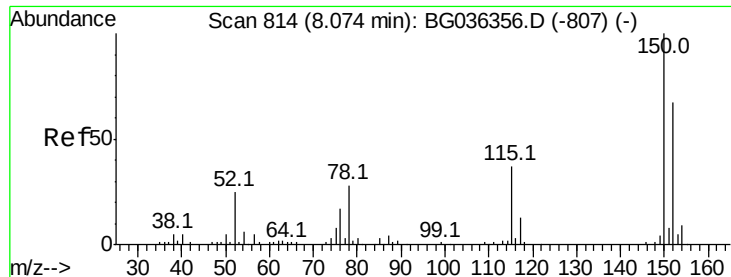
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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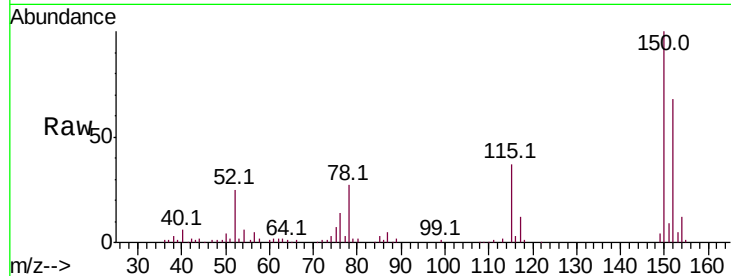


#1

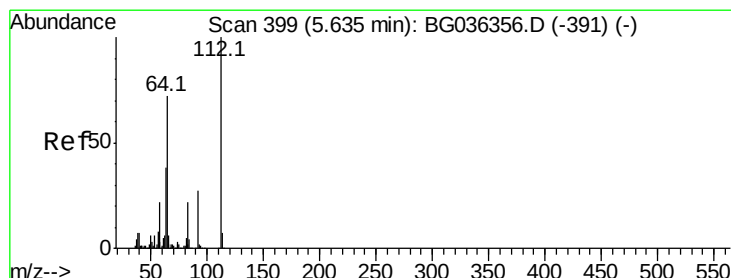
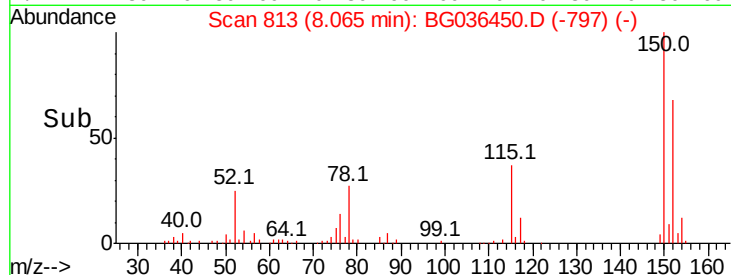
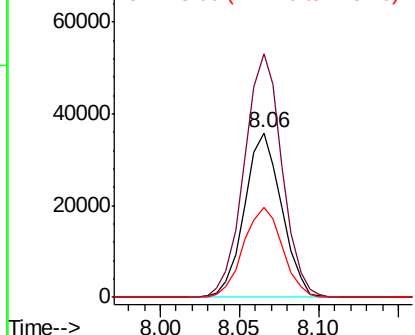
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.06 min Scan# 813  
Delta R.T. -0.01 min  
Lab File: BG036450.D  
Acq: 28 Aug 2018 4:26

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 148.0 | 119.5 | 179.3 |
| 115     | 54.3  | 44.5  | 66.7  |



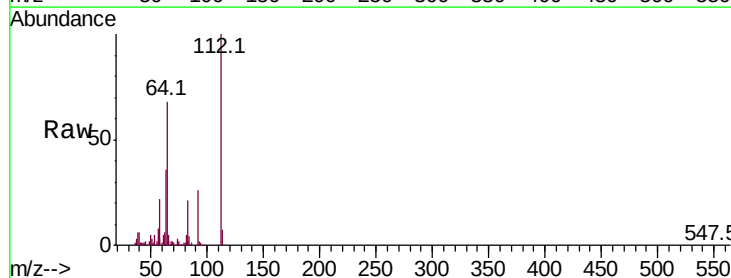
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



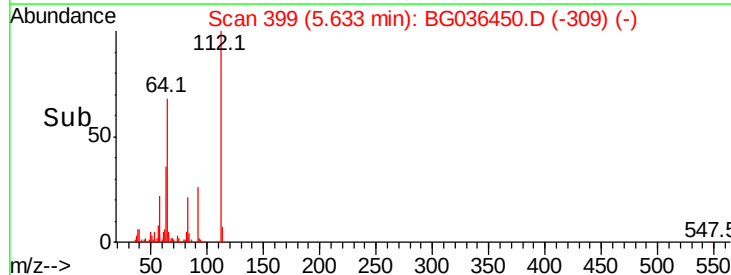
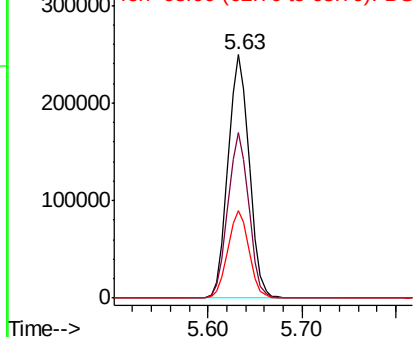
#5

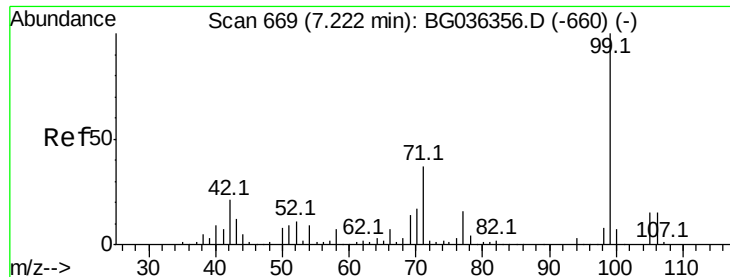
2-Fluorophenol  
Concen: 106.365 ng  
RT: 5.63 min Scan# 399  
Delta R.T. -0.00 min  
Lab File: BG036450.D  
Acq: 28 Aug 2018 4:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 67.8  | 57.2  | 85.8  |
| 63      | 35.7  | 30.8  | 46.2  |



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





#7

Phenol-d6

Concen: 91.301 ng

RT: 7.22 min Scan# 669

Delta R.T. -0.00 min

Lab File: BG036450.D

Acq: 28 Aug 2018 4:26

Instrument :

BNA\_G

ClientSampleId :

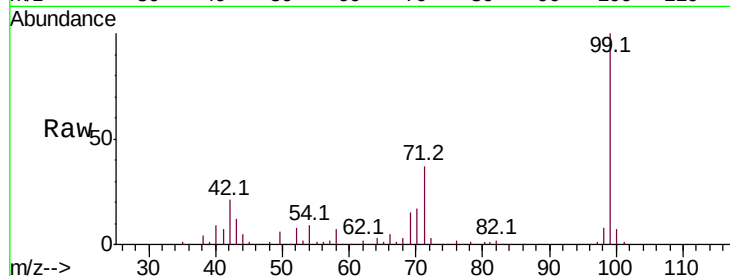
Tot Ion: 99 Resp: 479400

Ion Ratio Lower Upper

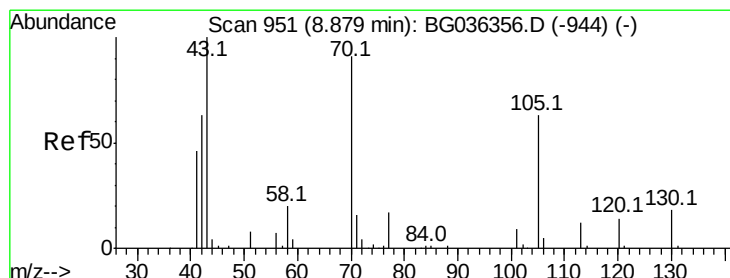
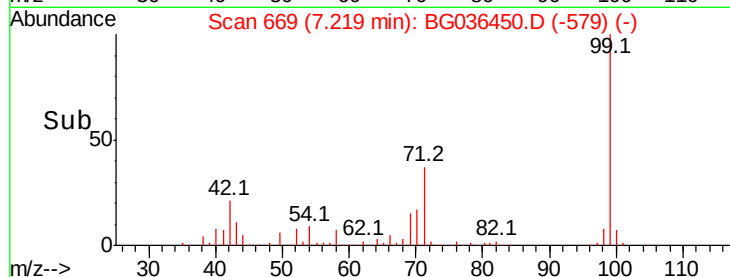
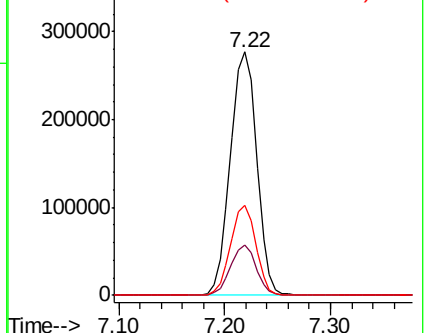
99 100

42 20.9 16.5 24.7

71 37.0 29.4 44.2



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: 12.825 ng

RT: 9.22 min Scan# 1010

Delta R.T. 0.34 min

Lab File: BG036450.D

Acq: 28 Aug 2018 4:26

Tgt Ion: 70 Resp: 50326

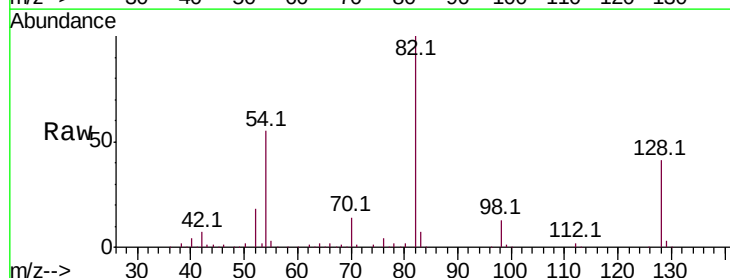
Ion Ratio Lower Upper

70 100

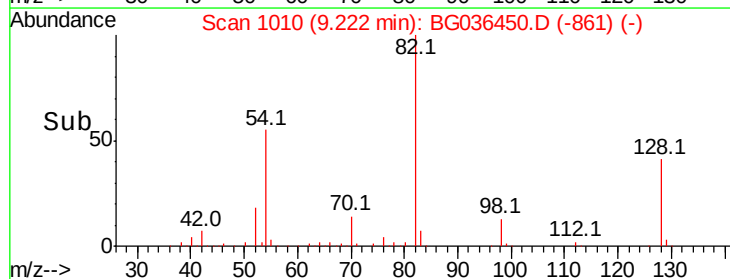
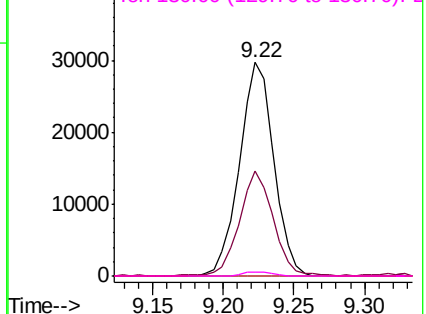
42 49.4 56.2 84.4#

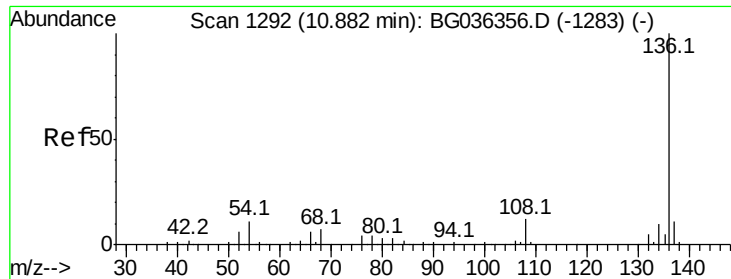
101 0.0 7.8 11.6#

130 1.6 16.2 24.2#



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

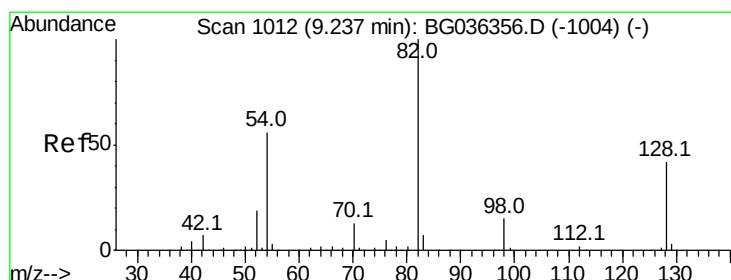
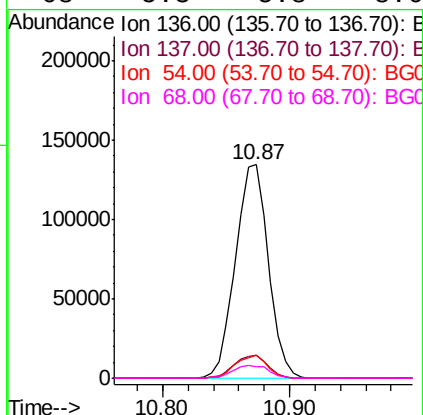
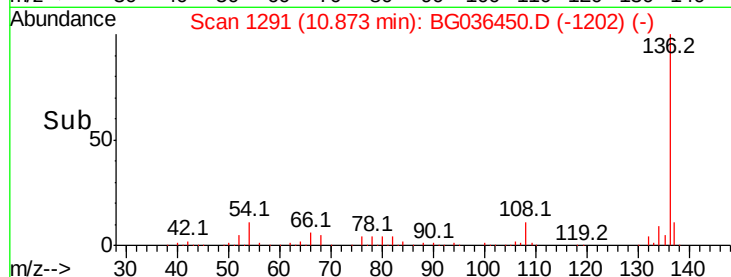
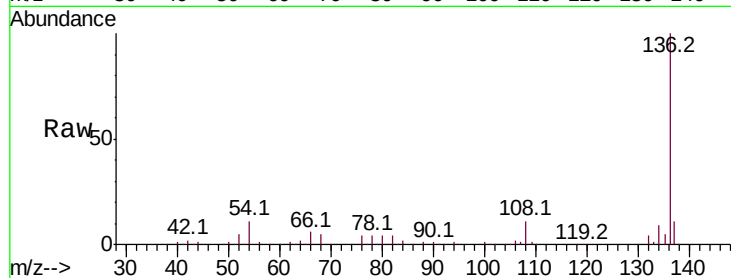




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.87 min Scan# 1291  
Delta R.T. -0.01 min  
Lab File: BG036450.D  
Acq: 28 Aug 2018 4:26

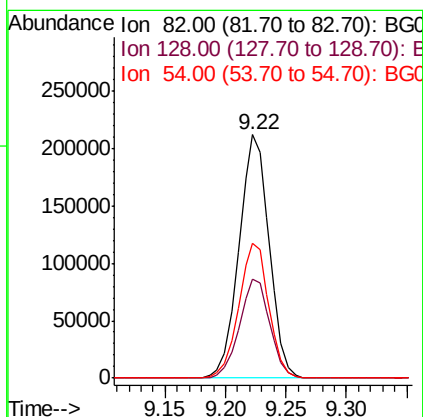
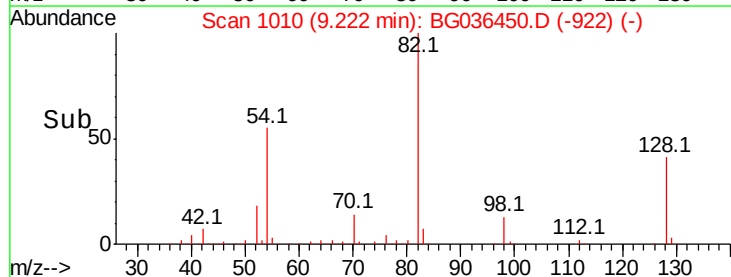
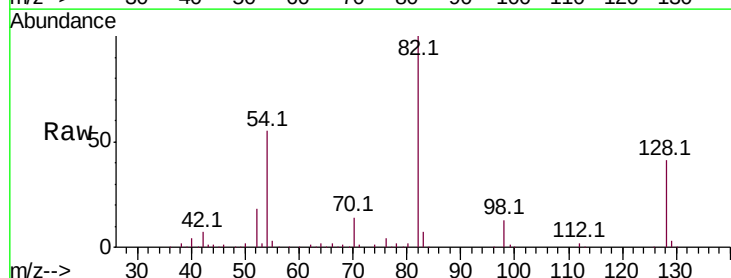
Instrument :  
BNA\_G  
ClientSampleId :

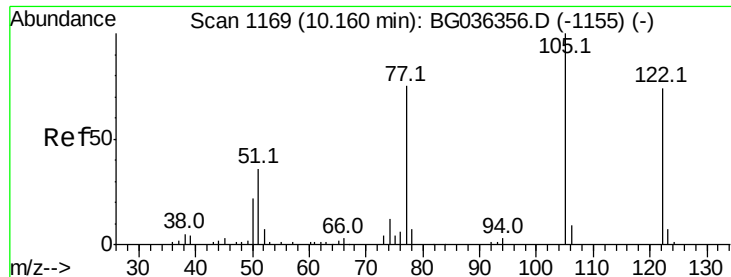
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 241596 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.9  | 8.8   | 13.2   |
| 54       | 10.9  | 9.2   | 13.8   |
| 68       | 5.3   | 5.8   | 8.6#   |



#23  
Nitrobenzene-d5  
Concen: 82.402 ng  
RT: 9.22 min Scan# 1010  
Delta R.T. -0.01 min  
Lab File: BG036450.D  
Acq: 28 Aug 2018 4:26

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 366921 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 40.8  | 33.3  | 49.9   |
| 54       | 55.4  | 45.1  | 67.7   |

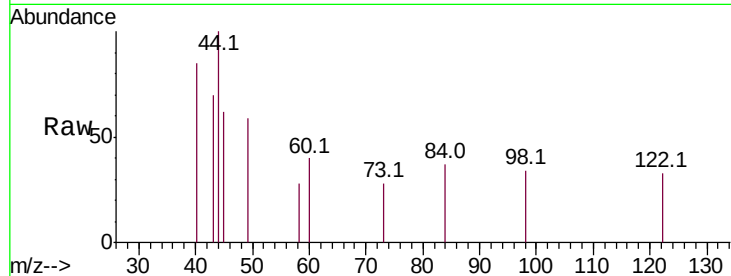




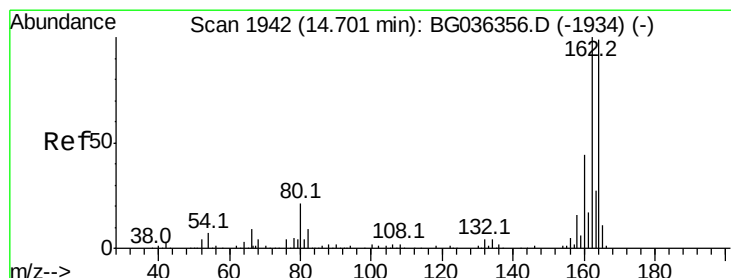
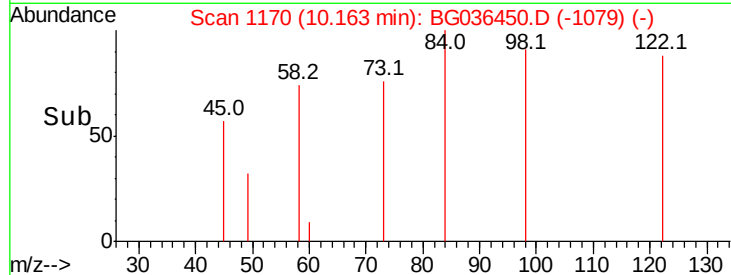
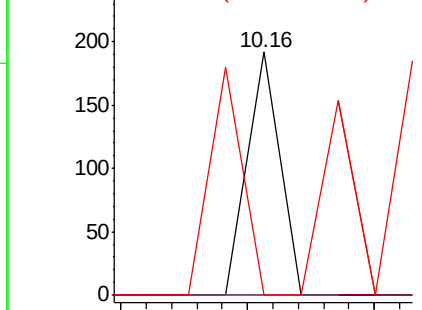
#32  
Benzoic acid  
Concen: 4.503 ng  
RT: 10.16 min Scan# 1170  
Delta R.T. 0.00 min  
Lab File: BG036450.D  
Acq: 28 Aug 2018 4:26

Instrument :  
BNA\_G  
ClientSampled :

Tot Ion:122 Resp: 68  
Ion Ratio Lower Upper  
122 100  
105 0.0 108.1 148.1#  
77 0.0 76.3 116.3#

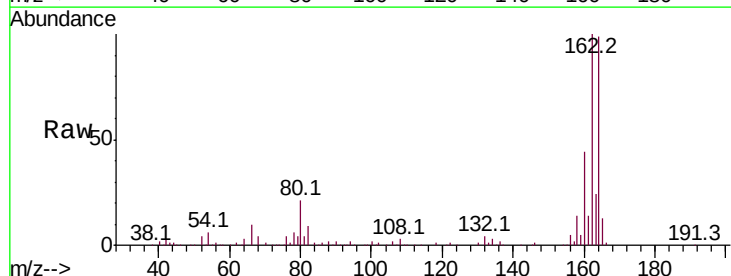


Abundance Ion 122.00 (121.70 to 122.70): E  
Ion 105.00 (104.70 to 105.70): E  
Ion 77.00 (76.70 to 77.70): BGC

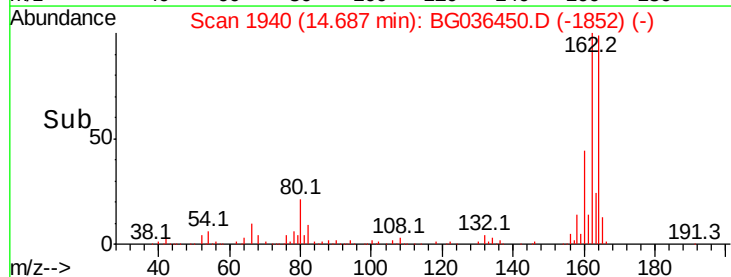
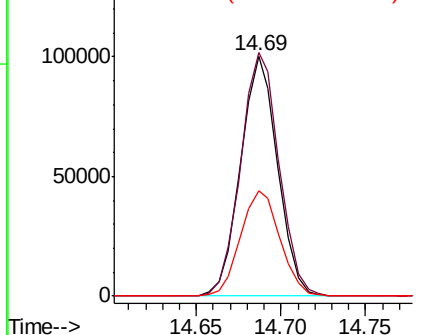


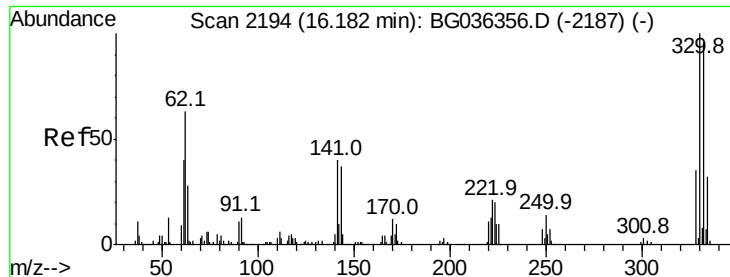
#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.69 min Scan# 1940  
Delta R.T. -0.01 min  
Lab File: BG036450.D  
Acq: 28 Aug 2018 4:26

Tgt Ion:164 Resp: 152152  
Ion Ratio Lower Upper  
164 100  
162 101.3 80.7 121.1  
160 44.1 35.3 52.9



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

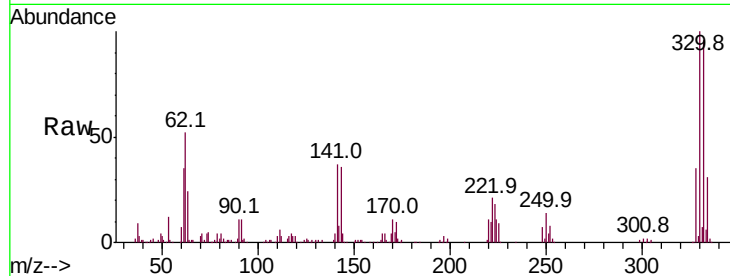




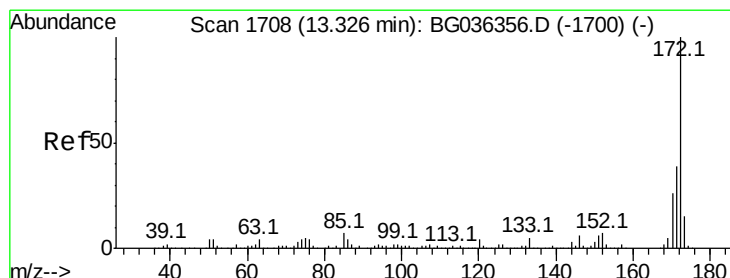
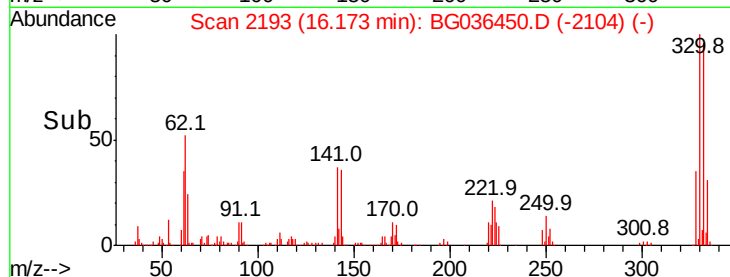
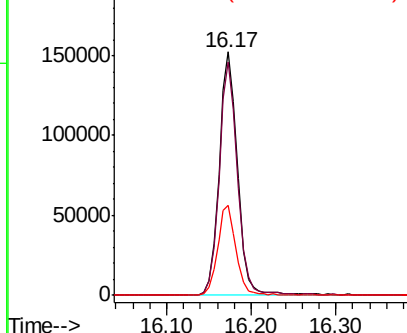
#41  
 2,4,6-Tribromophenol  
 Concen: 127.419 ng  
 RT: 16.17 min Scan# 2193  
 Delta R.T. -0.01 min  
 Lab File: BG036450.D  
 Acq: 28 Aug 2018 4:26

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.3  | 75.4  | 113.2 |
| 141     | 37.2  | 30.7  | 46.1  |

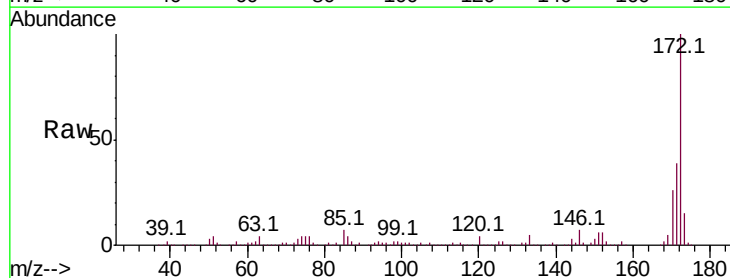


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

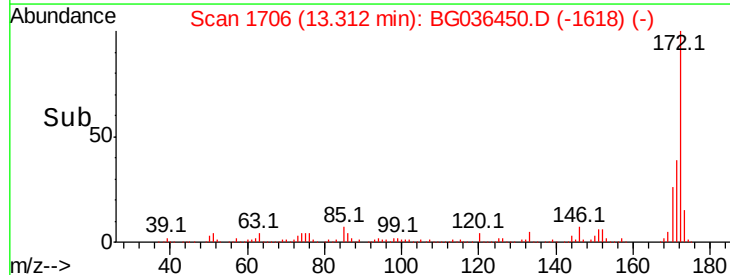
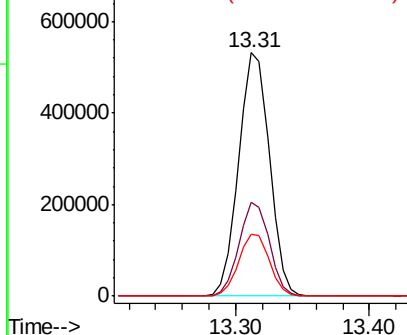


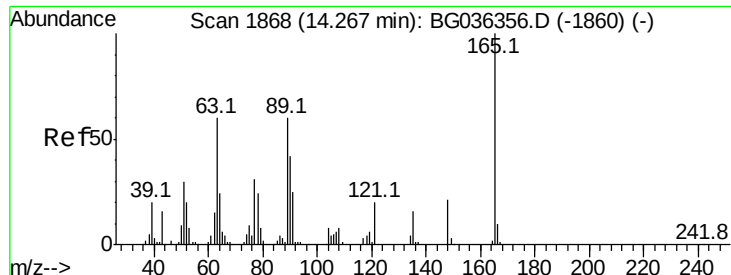
#44  
 2-Fluorobiphenyl  
 Concen: 79.520 ng  
 RT: 13.31 min Scan# 1706  
 Delta R.T. -0.01 min  
 Lab File: BG036450.D  
 Acq: 28 Aug 2018 4:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 38.7  | 31.3  | 46.9  |
| 170     | 25.7  | 21.0  | 31.6  |



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

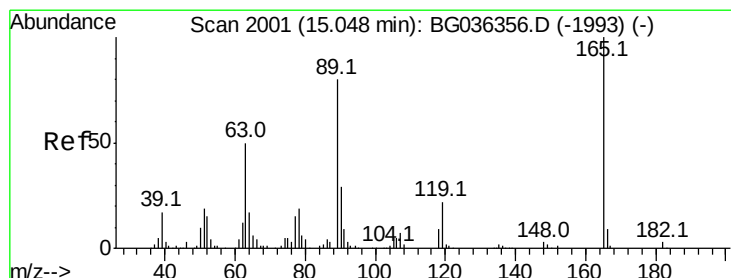
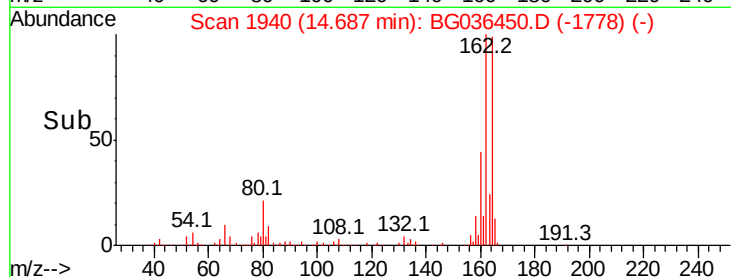
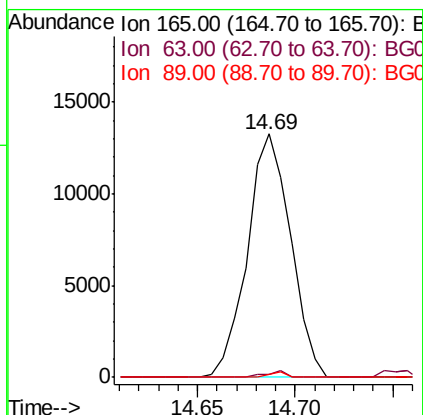
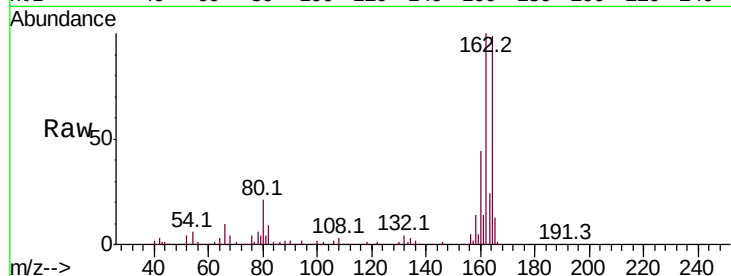




#50  
2,6-Dinitrotoluene  
Concen: 7.937 ng  
RT: 14.69 min Scan# 1940  
Delta R.T. 0.42 min  
Lab File: BG036450.D  
Acq: 28 Aug 2018 4:26

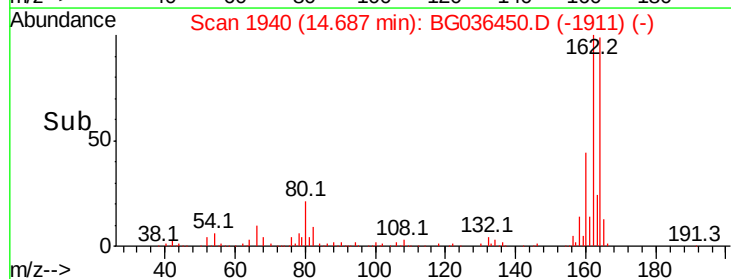
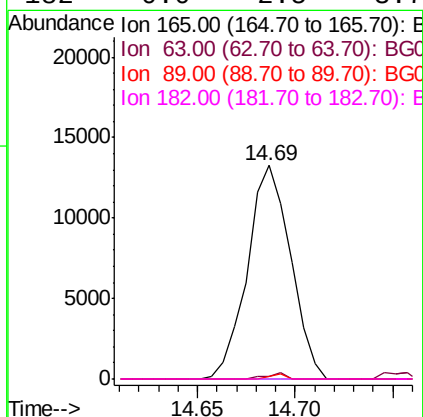
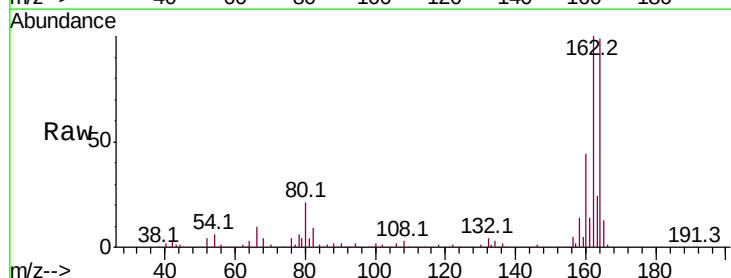
Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.3   | 50.1  | 75.1# |
| 89      | 1.4   | 47.8  | 71.6# |

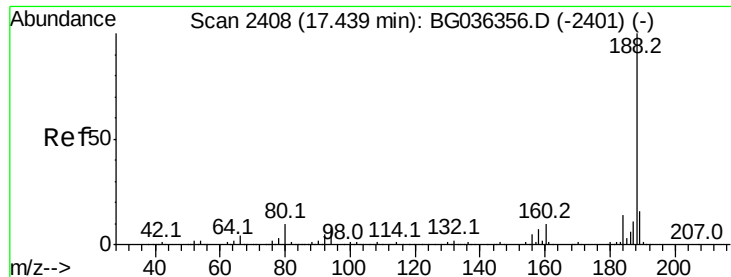


#56  
2,4-Dinitrotoluene  
Concen: 6.090 ng  
RT: 14.69 min Scan# 1940  
Delta R.T. -0.36 min  
Lab File: BG036450.D  
Acq: 28 Aug 2018 4:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.3   | 40.1  | 60.1# |
| 89      | 1.4   | 63.7  | 95.5# |
| 182     | 0.0   | 2.5   | 3.7#  |



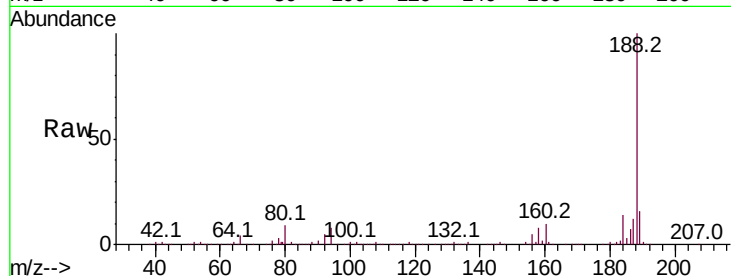




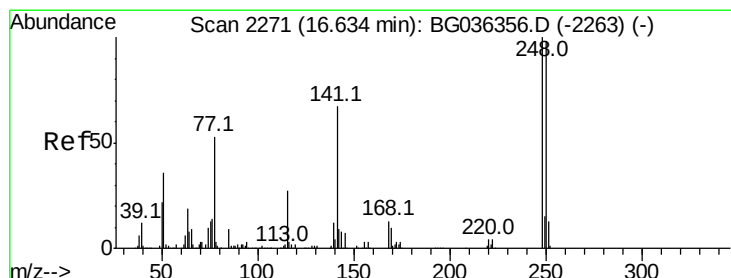
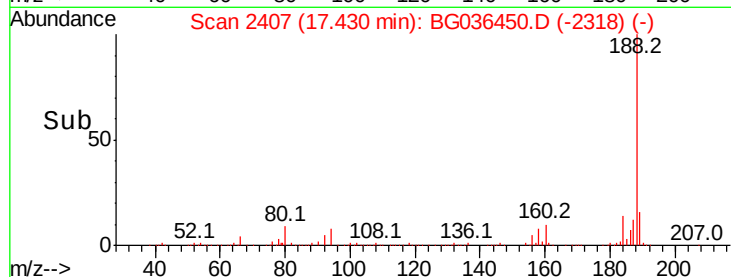
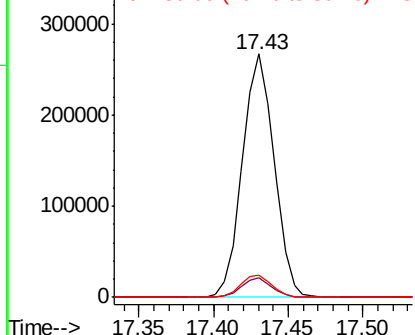
#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.43 min Scan# 2407  
 Delta R.T. -0.01 min  
 Lab File: BG036450.D  
 Acq: 28 Aug 2018 4:26

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:188 Resp: 393444  
 Ion Ratio Lower Upper  
 188 100  
 94 8.2 6.7 10.1  
 80 9.0 8.1 12.1

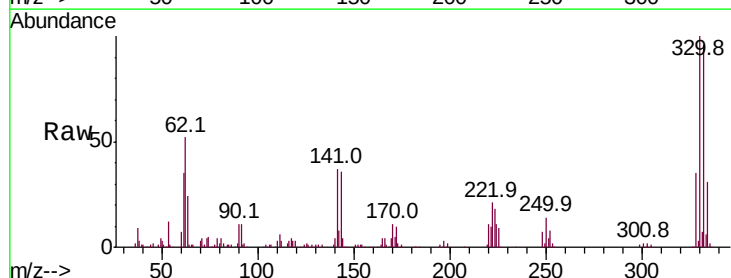


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BG  
 Ion 80.00 (79.70 to 80.70): BG

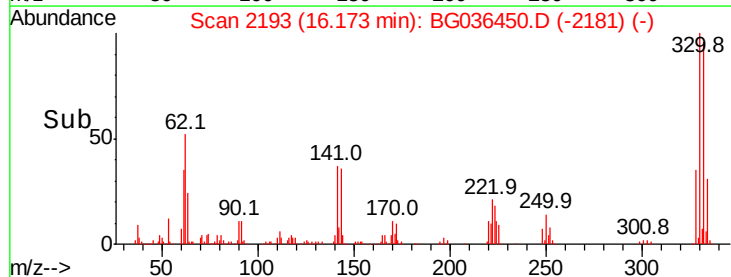
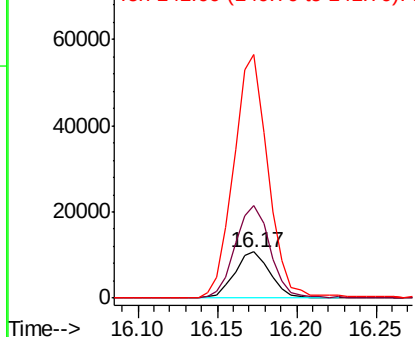


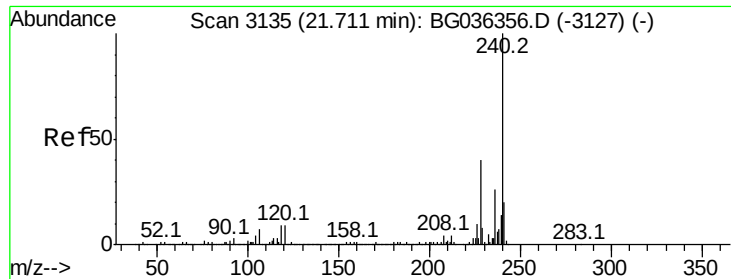
#66  
 4-Bromophenyl-phenylether  
 Concen: 3.581 ng  
 RT: 16.17 min Scan# 2193  
 Delta R.T. -0.46 min  
 Lab File: BG036450.D  
 Acq: 28 Aug 2018 4:26

Tgt Ion:248 Resp: 16496  
 Ion Ratio Lower Upper  
 248 100  
 250 199.4 78.1 117.1#  
 141 526.3 53.7 80.5#



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: 21.70 min Scan# 3133

Delta R.T. -0.01 min

Lab File: BG036450.D

Acq: 28 Aug 2018 4:26

Instrument :

BNA\_G

ClientSampleId :

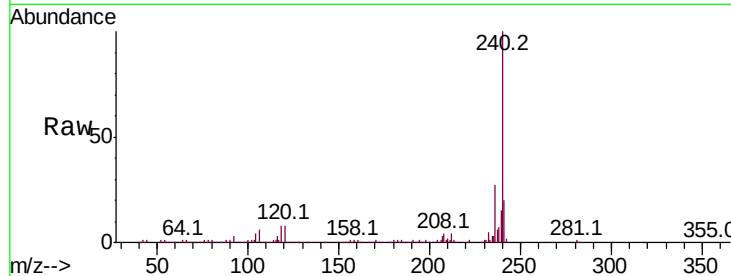
Tot Ion:240 Resp: 429771

Ion Ratio Lower Upper

240 100

120 8.1 6.9 10.3

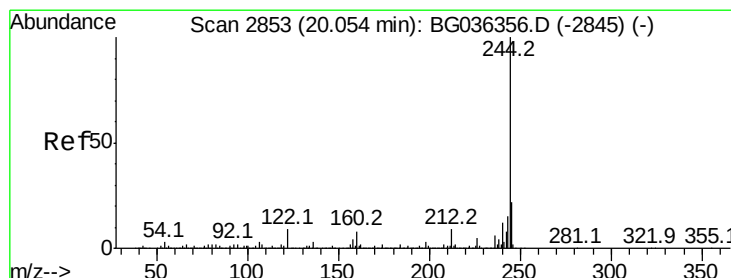
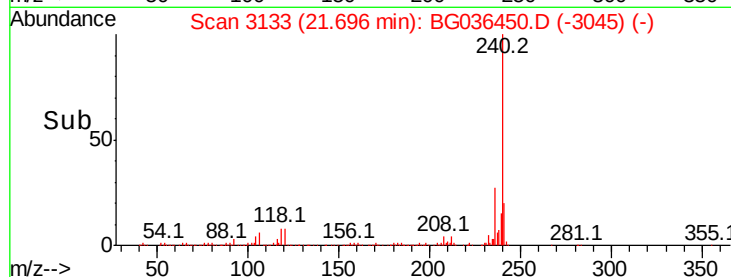
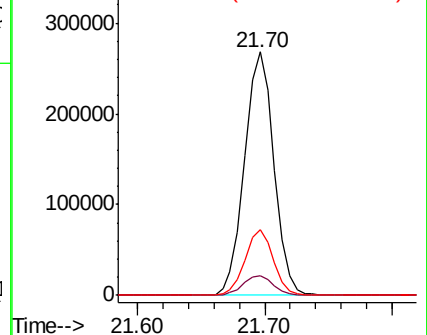
236 26.8 21.2 31.8



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: 80.340 ng

RT: 20.04 min Scan# 2851

Delta R.T. -0.01 min

Lab File: BG036450.D

Acq: 28 Aug 2018 4:26

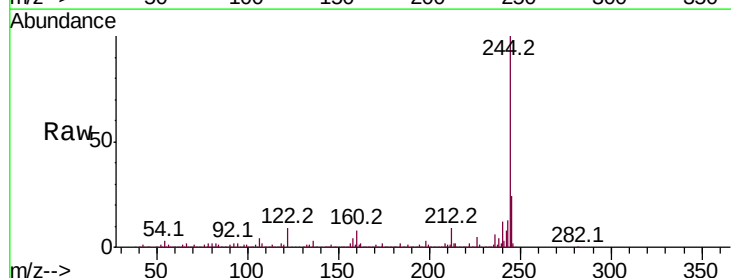
Tgt Ion:244 Resp: 1477220

Ion Ratio Lower Upper

244 100

212 9.1 7.0 10.6

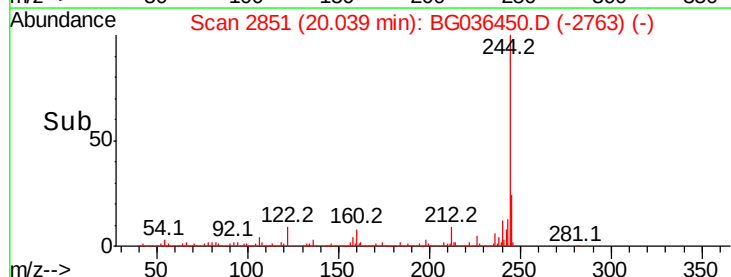
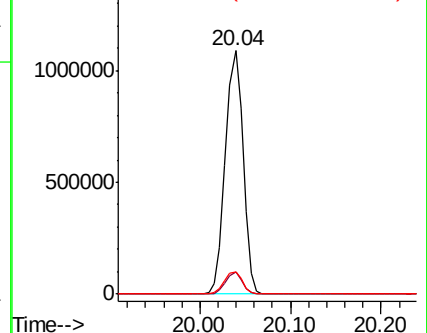
122 9.3 7.1 10.7

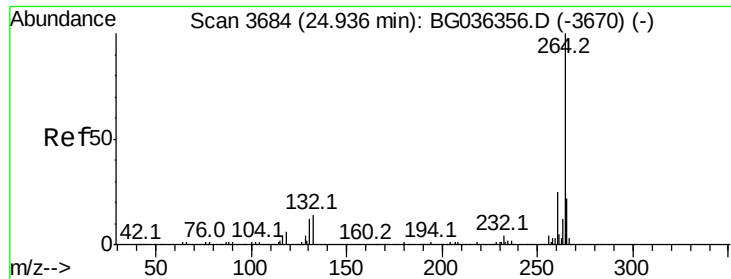


Abundance Ion 244.00 (243.70 to 244.70): E

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: 24.91 min Scan# 3680  
Delta R.T. -0.03 min  
Lab File: BG036450.D  
Acq: 28 Aug 2018 4:26

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.7  | 19.6  | 29.4  |
| 265     | 22.6  | 17.4  | 26.0  |

