

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG091818\  
 Data File : BG036799.D  
 Acq On : 18 Sep 2018 23:42  
 Operator : JU/SJ  
 Sample : J4922-06  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Sep 19 05:54:42 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG082318.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Aug 31 13:03:20 2018  
 Response via : Initial Calibration

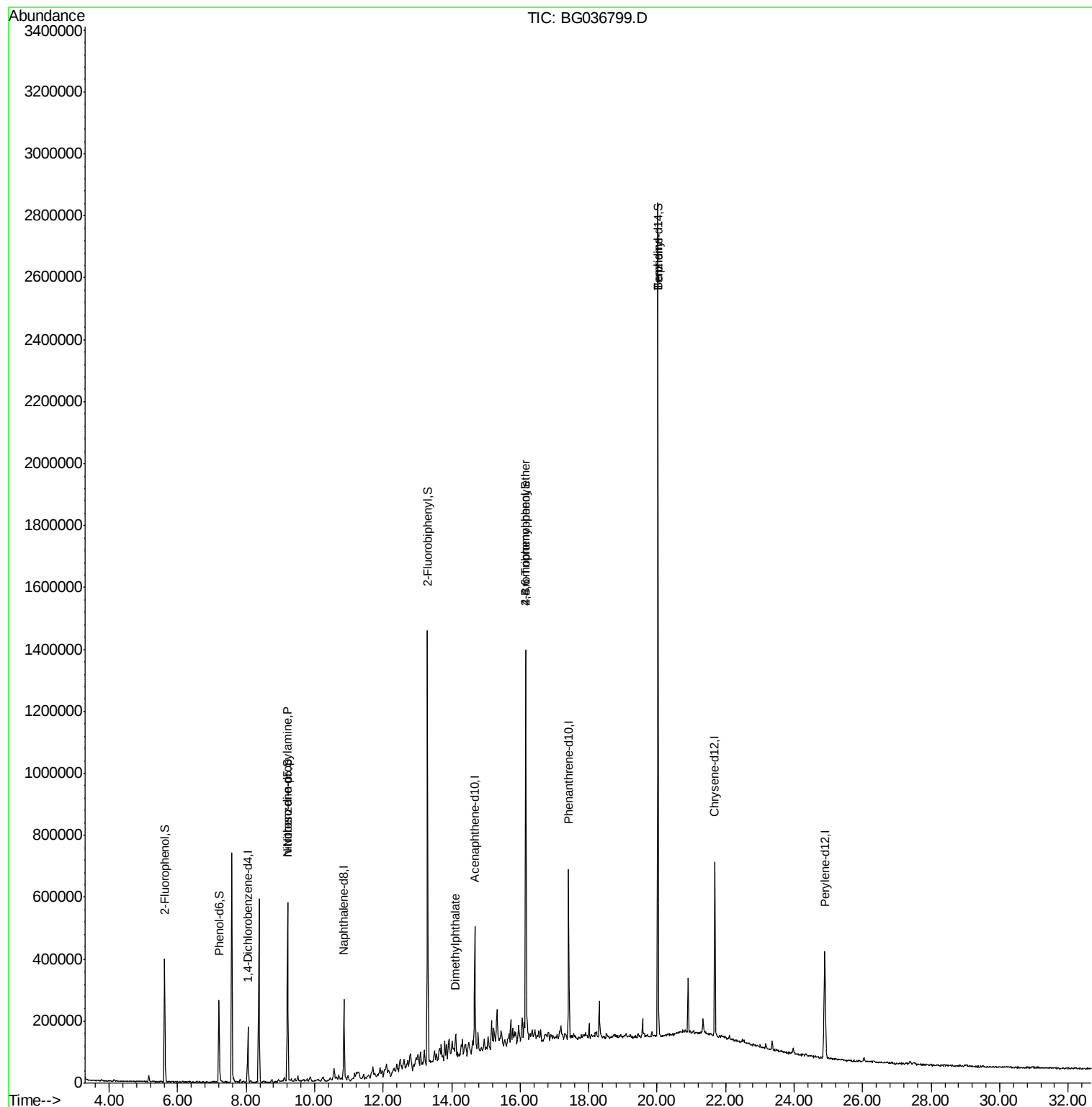
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.05  | 152  | 49442    | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8             | 10.85 | 136  | 208285   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10           | 14.67 | 164  | 136489   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10           | 17.41 | 188  | 343939   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12               | 21.69 | 240  | 356898   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 24.89 | 264  | 370691   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.62  | 112  | 165998   | 53.26  | ng    | 0.00     |
| 7) Phenol-d6                   | 7.20  | 99   | 151369   | 33.92  | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 9.21  | 82   | 346650   | 90.30  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 16.16 | 330  | 238451   | 146.41 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 13.30 | 172  | 699334   | 73.16  | ng    | -0.01    |
| 78) Terphenyl-d14              | 20.02 | 244  | 1258427  | 82.41  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.21  | 70   | 46179    | 13.846 | ng    | # 74     |
| 49) Dimethylphthalate          | 14.12 | 163  | 30515    | 2.738  | ng    | # 92     |
| 66) 4-Bromophenyl-phenylether  | 16.16 | 248  | 16930    | 4.204  | ng    | # 1      |
| 76) Benzidine                  | 20.02 | 184  | 23016    | 2.021  | ng    | # 96     |

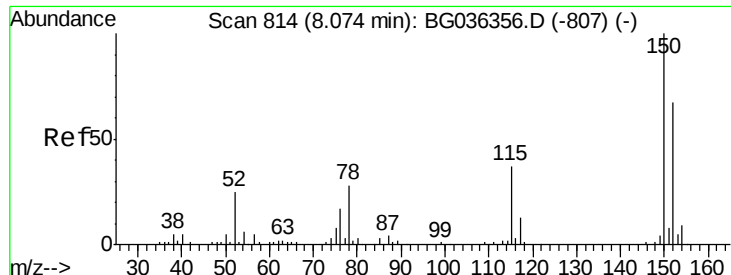
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG091818\  
Data File : BG036799.D  
Acq On : 18 Sep 2018 23:42  
Operator : JU/SJ  
Sample : J4922-06  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Sep 19 05:54:42 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG082318.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Aug 31 13:03:20 2018  
Response via : Initial Calibration



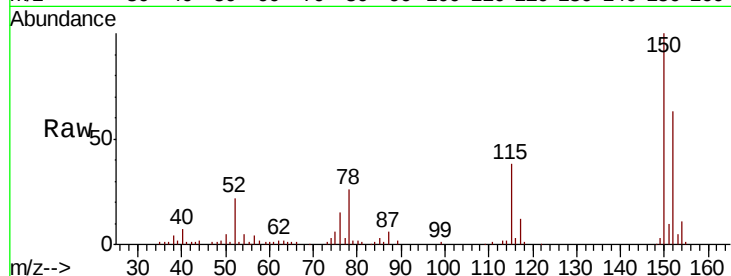


#1

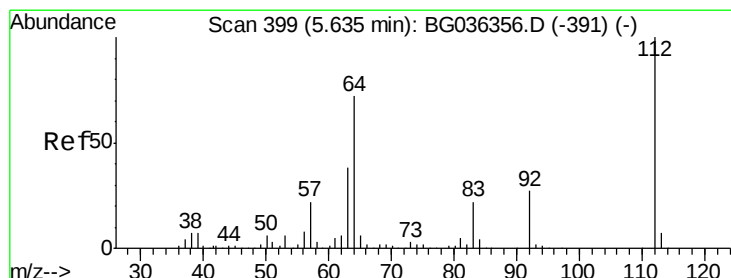
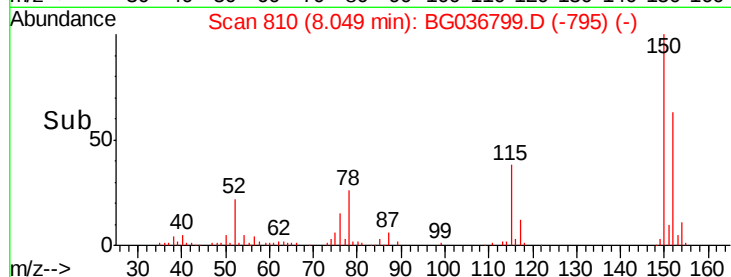
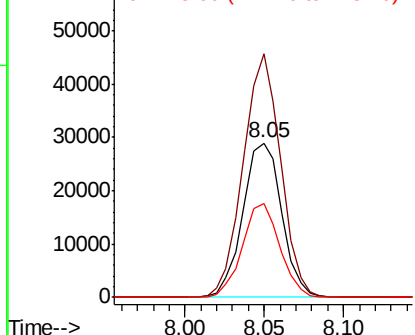
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.05 min Scan# 810  
Delta R.T. -0.01 min  
Lab File: BG036799.D  
Acq: 18 Sep 2018 23:42

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 49442  
Ion Ratio Lower Upper  
152 100  
150 157.5 119.5 179.3  
115 60.3 44.5 66.7



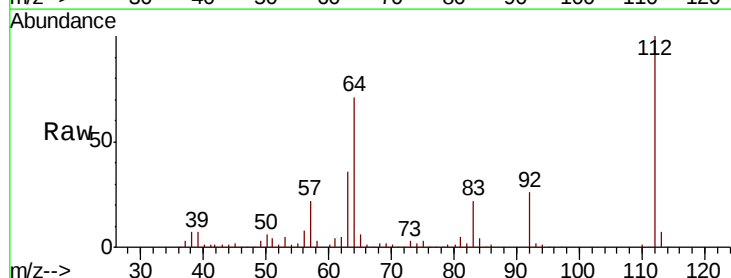
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



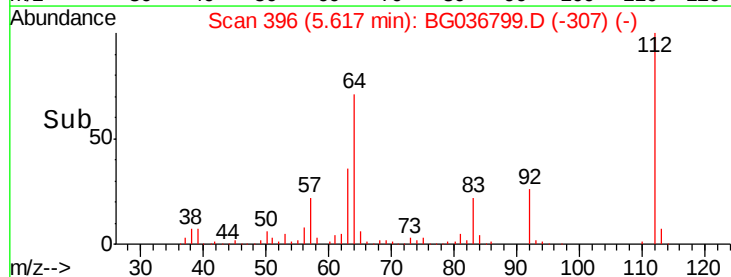
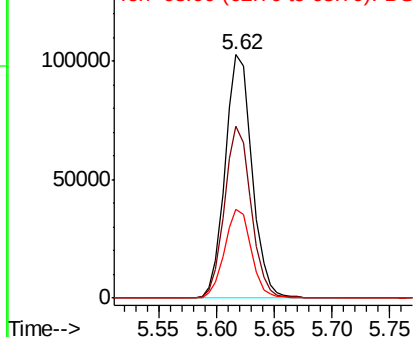
#5

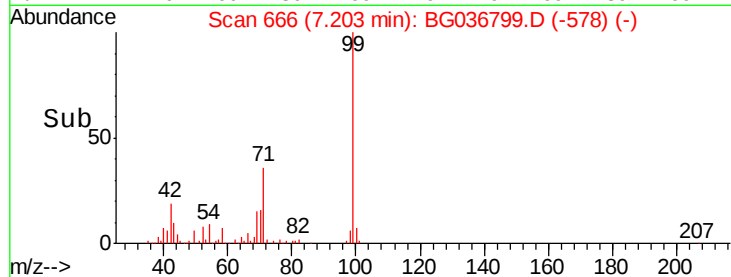
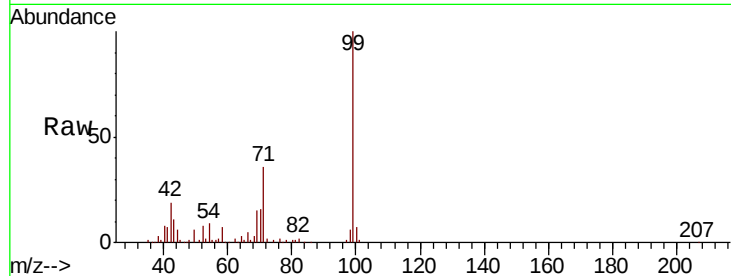
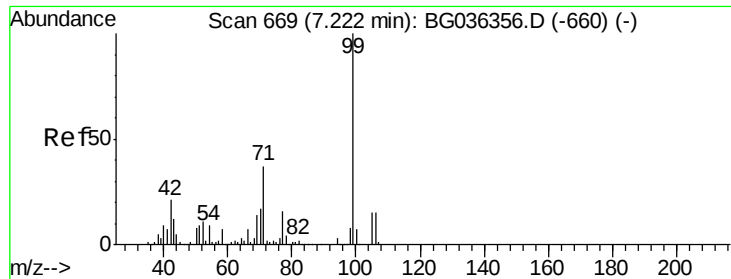
2-Fluorophenol  
Concen: 53.259 ng  
RT: 5.62 min Scan# 396  
Delta R.T. -0.01 min  
Lab File: BG036799.D  
Acq: 18 Sep 2018 23:42

Tgt Ion:112 Resp: 165998  
Ion Ratio Lower Upper  
112 100  
64 70.7 57.2 85.8  
63 36.5 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: 33.920 ng

RT: 7.20 min Scan# 666

Delta R.T. -0.01 min

Lab File: BG036799.D

Acq: 18 Sep 2018 23:42

Instrument :

BNA\_G

ClientSampled :

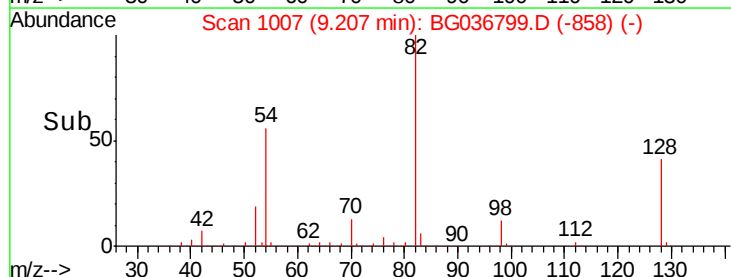
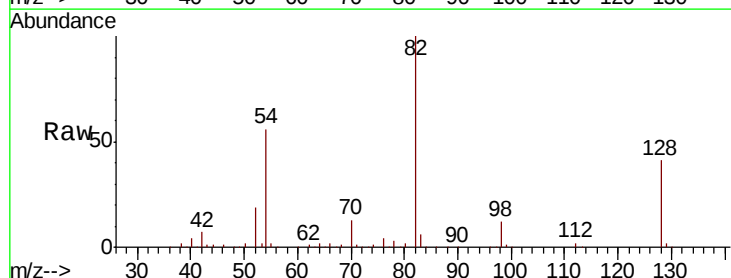
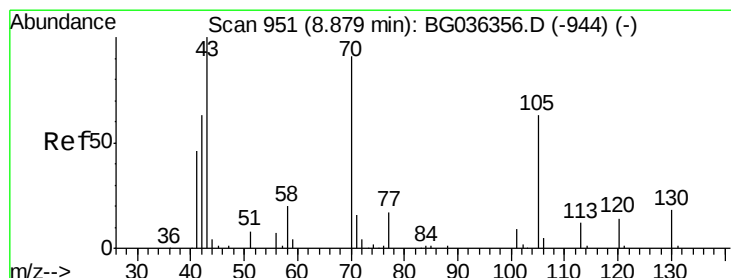
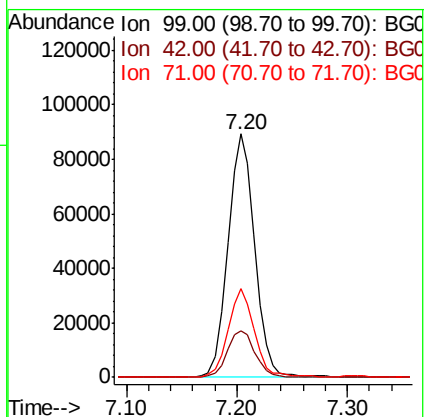
Tot Ion: 99 Resp: 151369

Ion Ratio Lower Upper

99 100

42 19.1 16.5 24.7

71 36.3 29.4 44.2



#19

n-Nitroso-di-n-propylamine

Concen: 13.846 ng

RT: 9.21 min Scan# 1007

Delta R.T. 0.34 min

Lab File: BG036799.D

Acq: 18 Sep 2018 23:42

Tgt Ion: 70 Resp: 46179

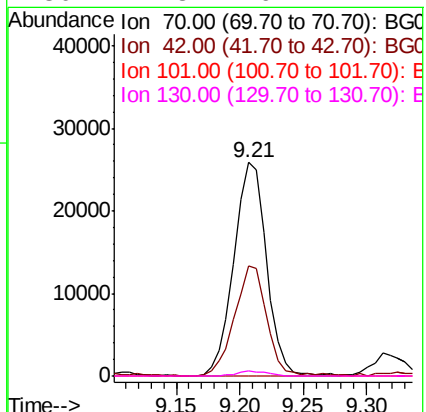
Ion Ratio Lower Upper

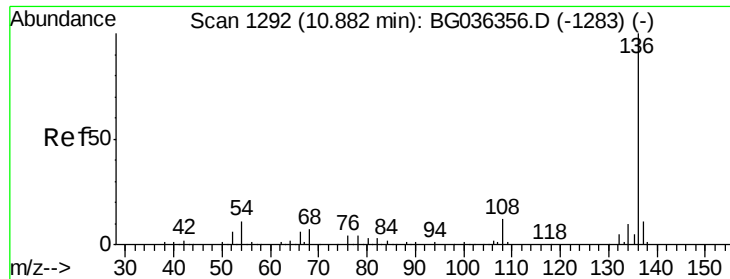
70 100

42 51.5 56.2 84.4#

101 0.0 7.8 11.6#

130 2.3 16.2 24.2#

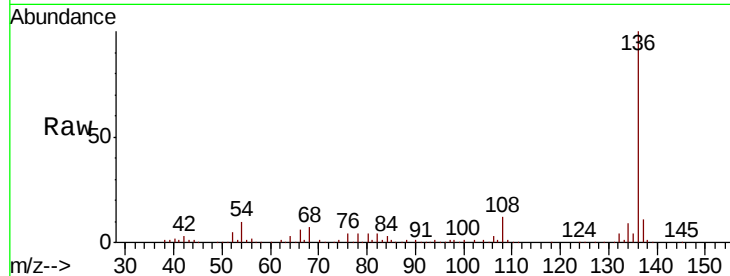




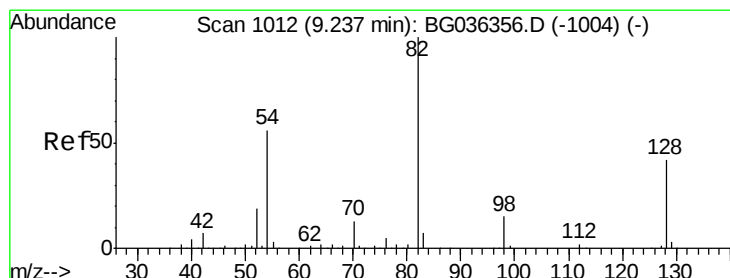
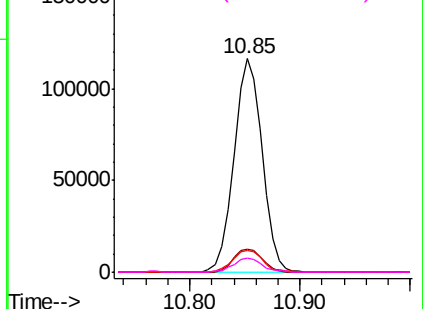
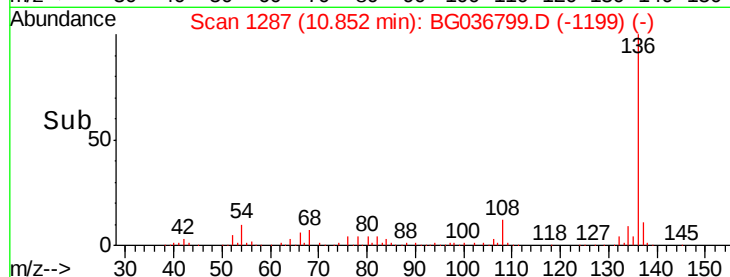
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.85 min Scan# 1287  
Delta R.T. -0.01 min  
Lab File: BG036799.D  
Acq: 18 Sep 2018 23:42

Instrument :  
BNA\_G  
ClientSampleId :

|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 208285   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 10.8  | 8.8 13.2 |
| 54          | 10.5  | 9.2 13.8 |
| 68          | 6.8   | 5.8 8.6  |

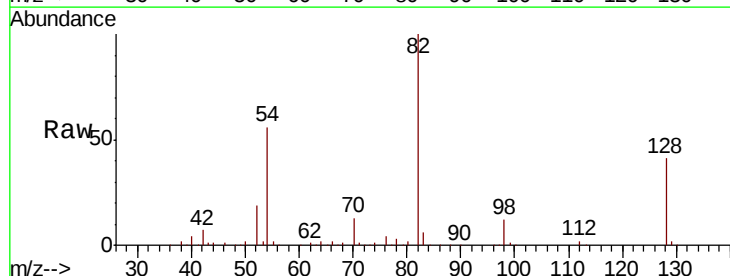


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

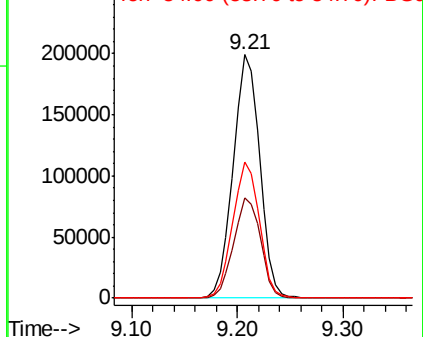
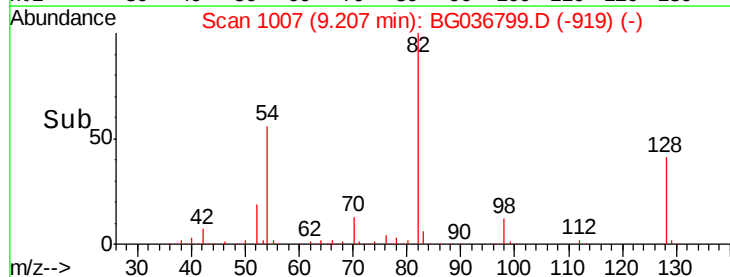


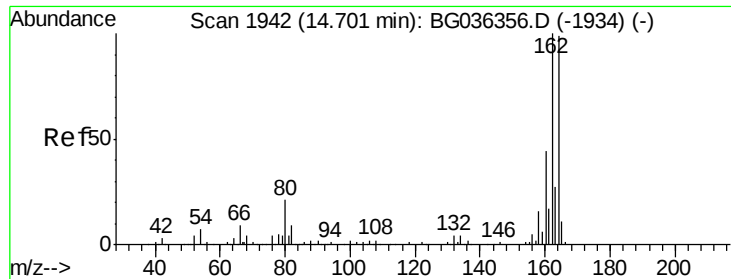
#23  
Nitrobenzene-d5  
Concen: 90.300 ng  
RT: 9.21 min Scan# 1007  
Delta R.T. -0.01 min  
Lab File: BG036799.D  
Acq: 18 Sep 2018 23:42

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 346650    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 41.0  | 33.3 49.9 |
| 54          | 56.0  | 45.1 67.7 |



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: 14.67 min Scan# 1937

Delta R.T. -0.01 min

Lab File: BG036799.D

Acq: 18 Sep 2018 23:42

Instrument :

BNA\_G

ClientSampleId :

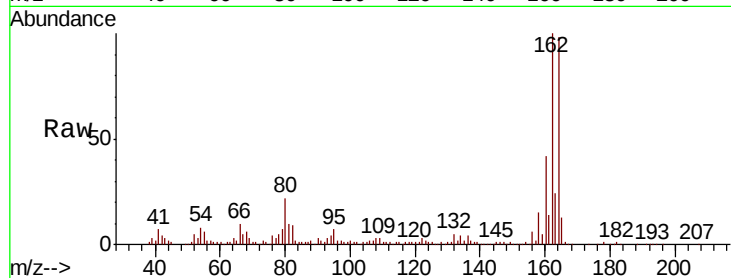
Tot Ion:164 Resp: 136489

Ion Ratio Lower Upper

164 100

162 102.1 80.7 121.1

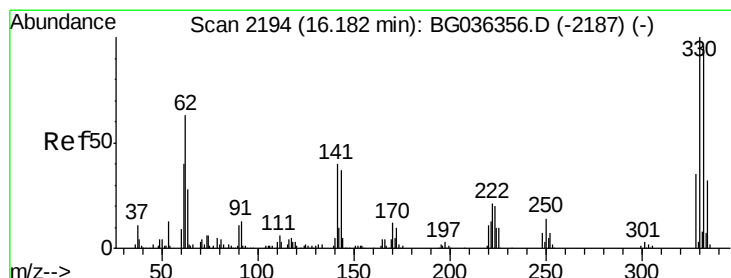
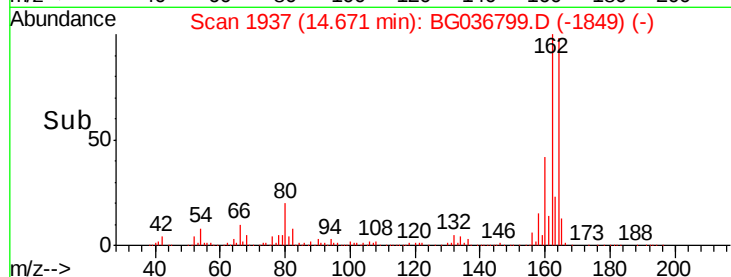
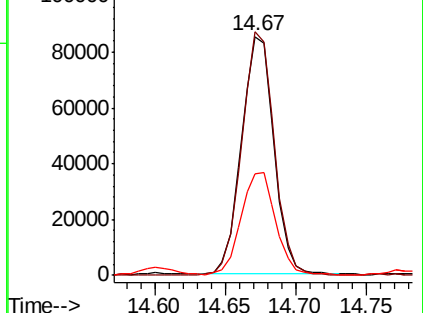
160 42.6 35.3 52.9



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: 146.413 ng

RT: 16.16 min Scan# 2191

Delta R.T. -0.01 min

Lab File: BG036799.D

Acq: 18 Sep 2018 23:42

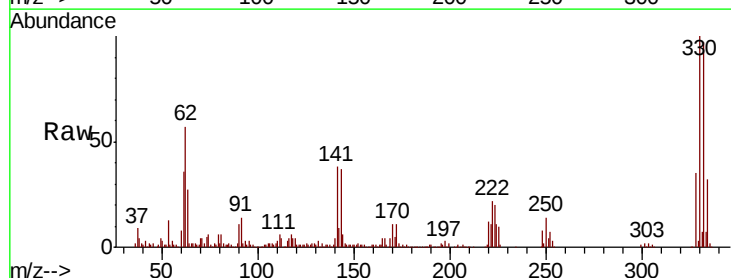
Tgt Ion:330 Resp: 238451

Ion Ratio Lower Upper

330 100

332 96.4 75.4 113.2

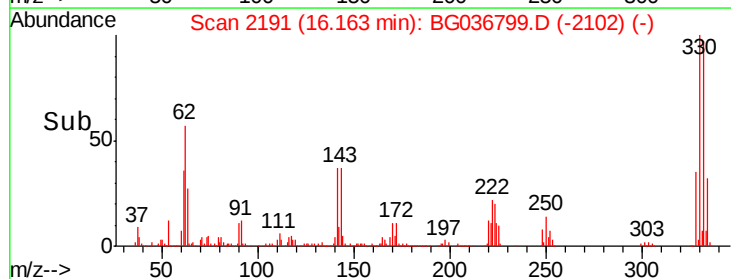
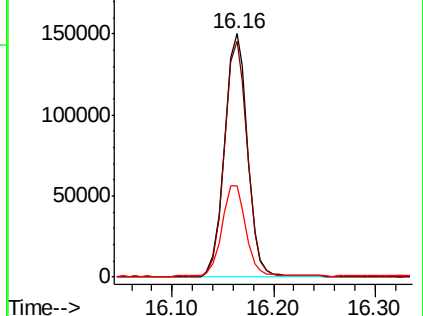
141 38.9 30.7 46.1

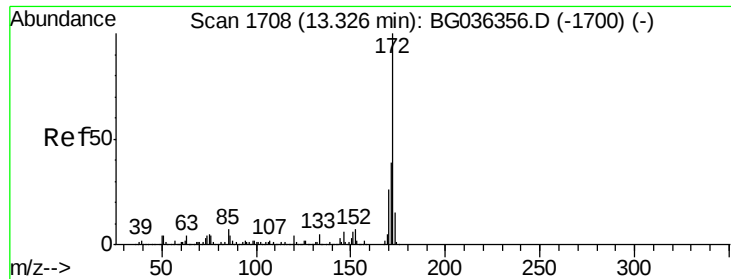


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

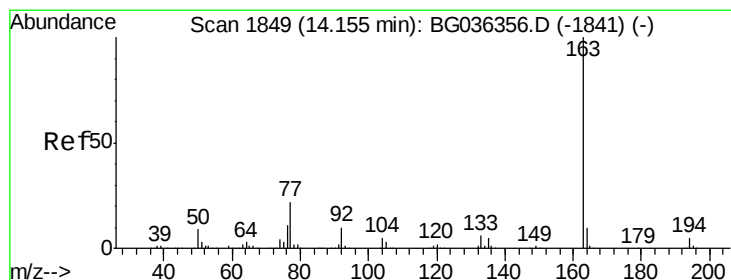
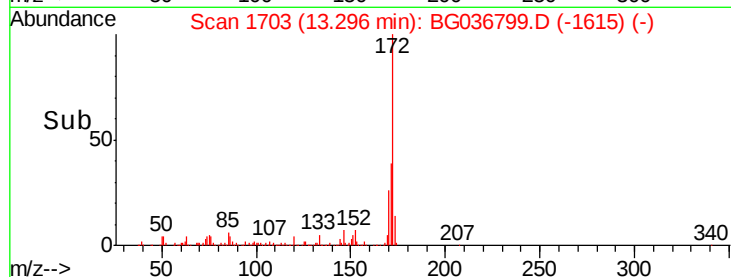
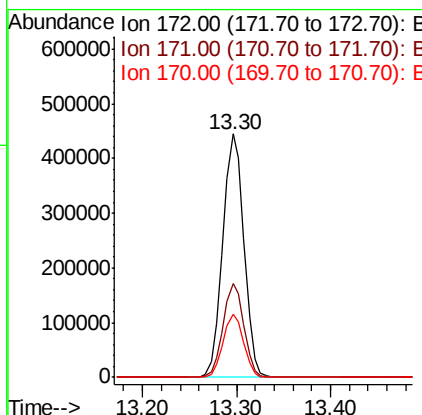
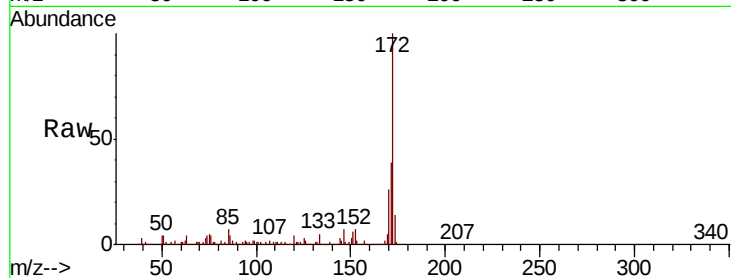




#44  
2-Fluorobiphenyl  
Concen: 73.158 ng  
RT: 13.30 min Scan# 1703  
Delta R.T. -0.01 min  
Lab File: BG036799.D  
Acq: 18 Sep 2018 23:42

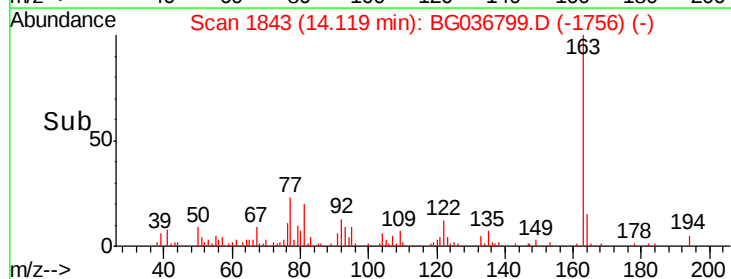
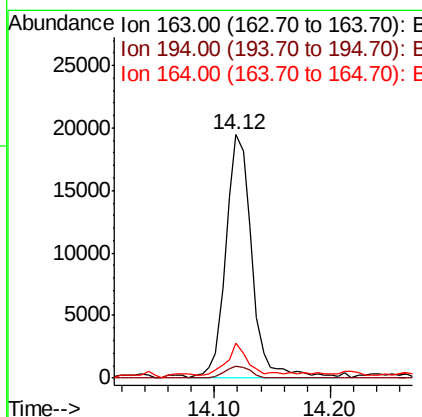
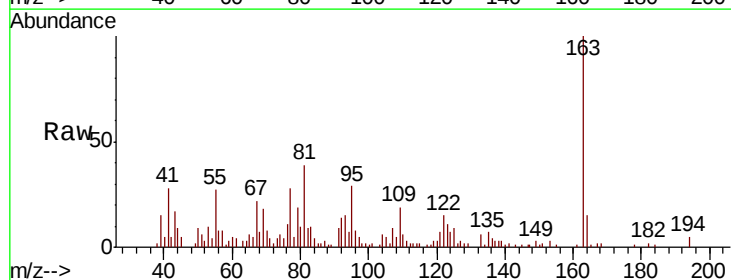
Instrument :  
BNA\_G  
ClientSampleId :

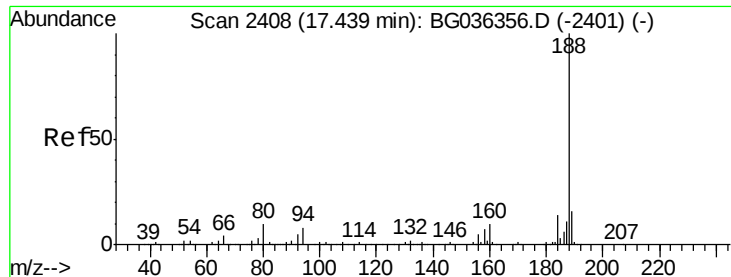
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 38.8  | 31.3  | 46.9  |
| 170     | 25.8  | 21.0  | 31.6  |



#49  
Dimethylphthalate  
Concen: 2.738 ng  
RT: 14.12 min Scan# 1843  
Delta R.T. -0.02 min  
Lab File: BG036799.D  
Acq: 18 Sep 2018 23:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.8   | 4.0   | 6.0   |
| 164     | 14.5  | 8.1   | 12.1# |





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.41 min Scan# 2404

Delta R.T. -0.01 min

Lab File: BG036799.D

Acq: 18 Sep 2018 23:42

Instrument :

BNA\_G

ClientSampleId :

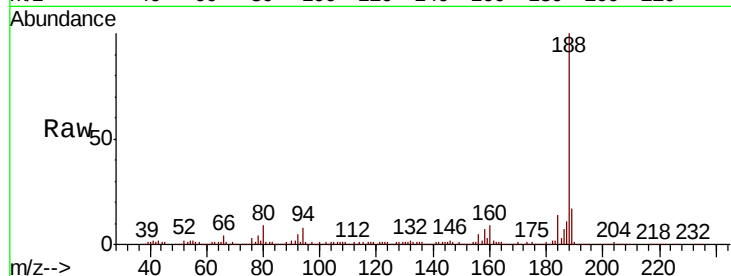
Tot Ion:188 Resp: 343939

Ion Ratio Lower Upper

188 100

94 7.7 6.7 10.1

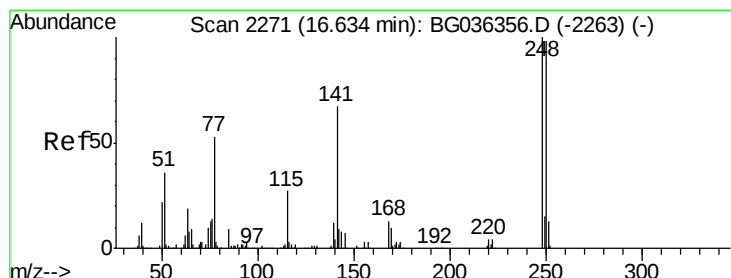
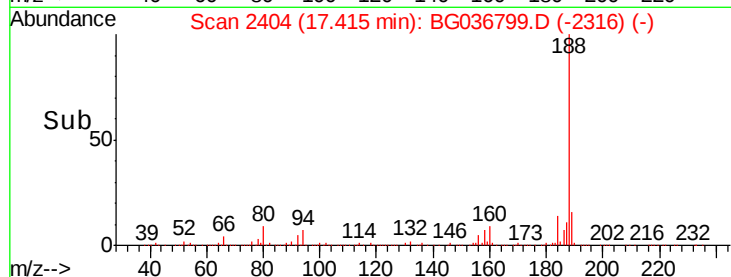
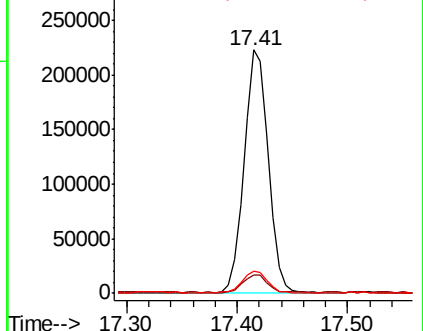
80 9.2 8.1 12.1



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: 4.204 ng

RT: 16.16 min Scan# 2191

Delta R.T. -0.45 min

Lab File: BG036799.D

Acq: 18 Sep 2018 23:42

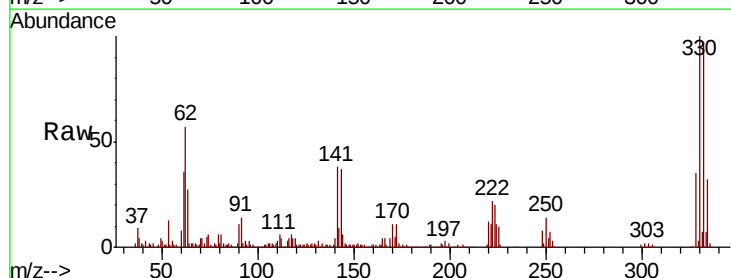
Tgt Ion:248 Resp: 16930

Ion Ratio Lower Upper

248 100

250 191.3 78.1 117.1#

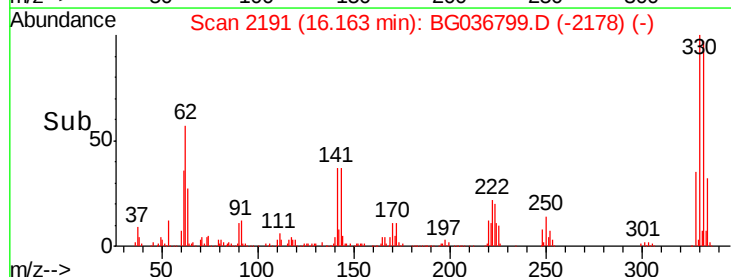
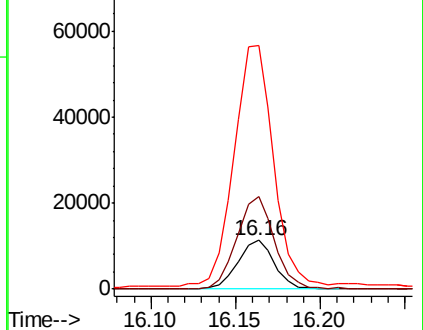
141 502.2 53.7 80.5#

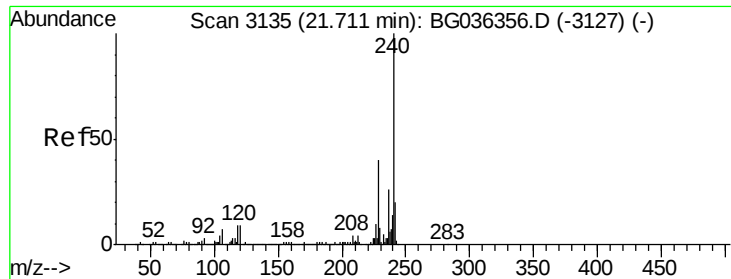


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

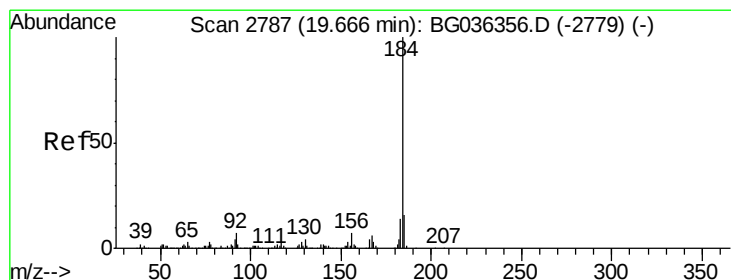
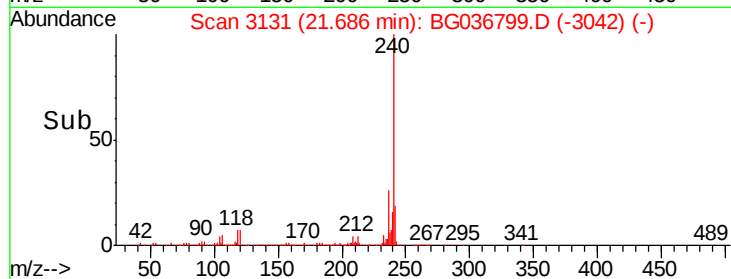
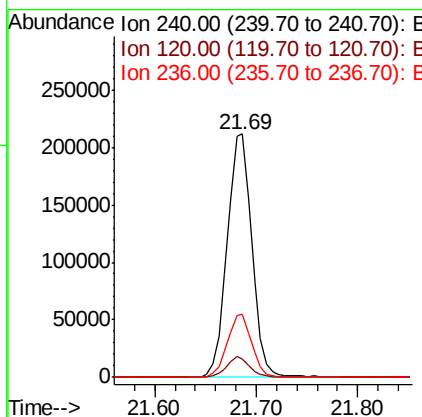
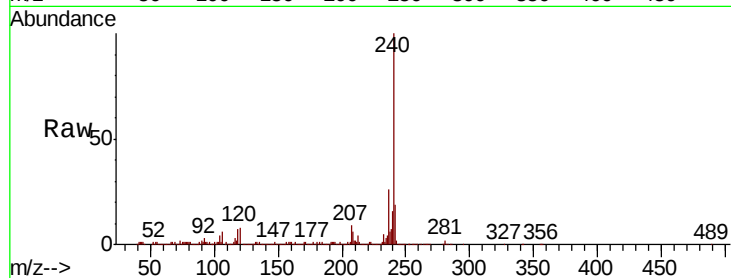




#75  
 Chrvsene-d12  
 Concen: 20.000 ng  
 RT: 21.69 min Scan# 3131  
 Delta R.T. -0.01 min  
 Lab File: BG036799.D  
 Acq: 18 Sep 2018 23:42

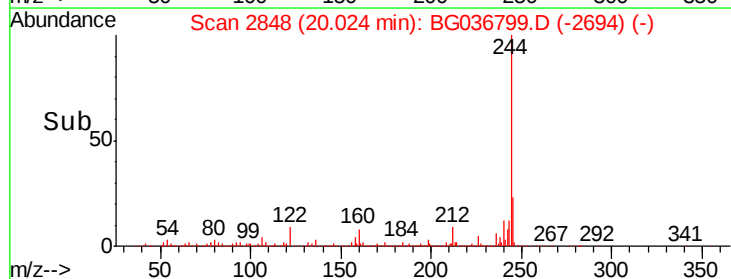
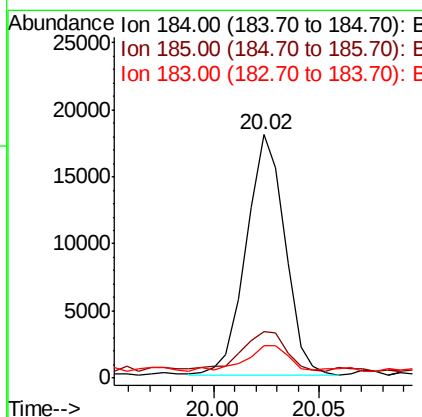
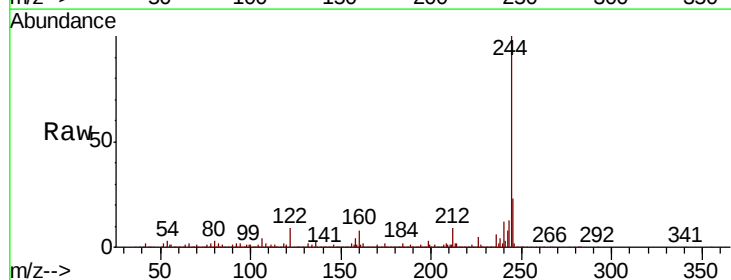
Instrument :  
 BNA\_G  
 ClientSampled :

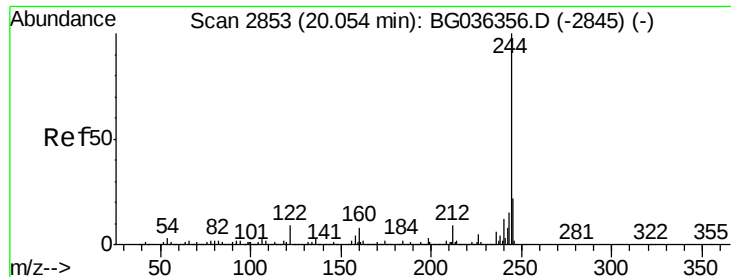
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 7.6   | 6.9   | 10.3  |
| 236     | 25.7  | 21.2  | 31.8  |



#76  
 Benzidine  
 Concen: 2.021 ng  
 RT: 20.02 min Scan# 2848  
 Delta R.T. 0.37 min  
 Lab File: BG036799.D  
 Acq: 18 Sep 2018 23:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 184     | 100   |       |       |
| 185     | 18.9  | 12.6  | 18.8# |
| 183     | 13.3  | 10.9  | 16.3  |





#78

Terphenyl-d14

Concen: 82.415 ng

RT: 20.02 min Scan# 2848

Delta R.T. -0.01 min

Lab File: BG036799.D

Acq: 18 Sep 2018 23:42

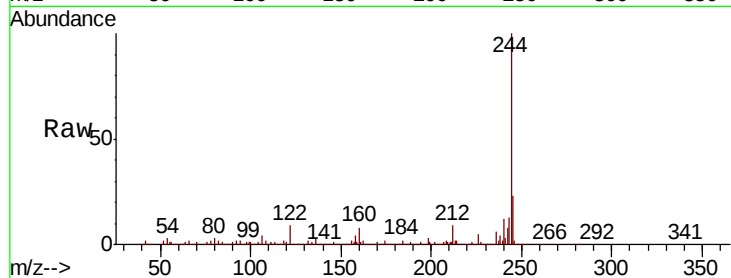
Instrument :

BNA\_G

ClientSampleId :

Tot Ion:244 Resp: 1258427

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 8.9   | 7.0   | 10.6  |
| 122 | 9.2   | 7.1   | 10.7  |

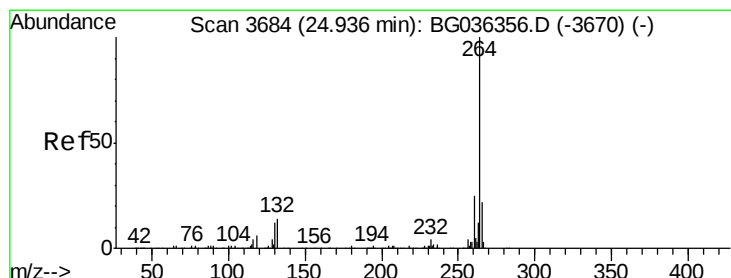
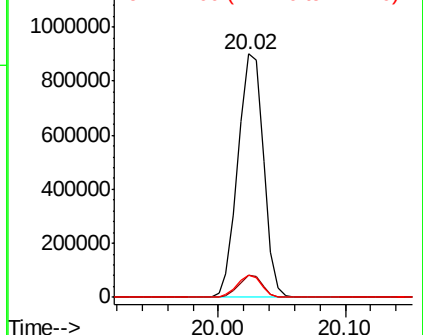
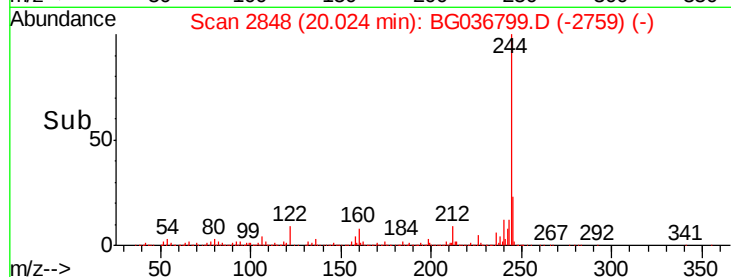


Abundance

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

Perylene-d12

Concen: 20.000 ng

RT: 24.89 min Scan# 3677

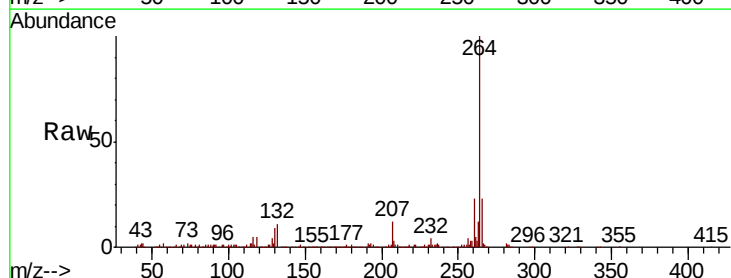
Delta R.T. -0.01 min

Lab File: BG036799.D

Acq: 18 Sep 2018 23:42

Tgt Ion:264 Resp: 370691

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.4  | 19.6  | 29.4  |
| 265 | 22.9  | 17.4  | 26.0  |



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

