

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG091818\  
 Data File : BG036813.D  
 Acq On : 19 Sep 2018 9:27  
 Operator : JU/SJ  
 Sample : J4936-42  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Sep 19 11:42:47 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

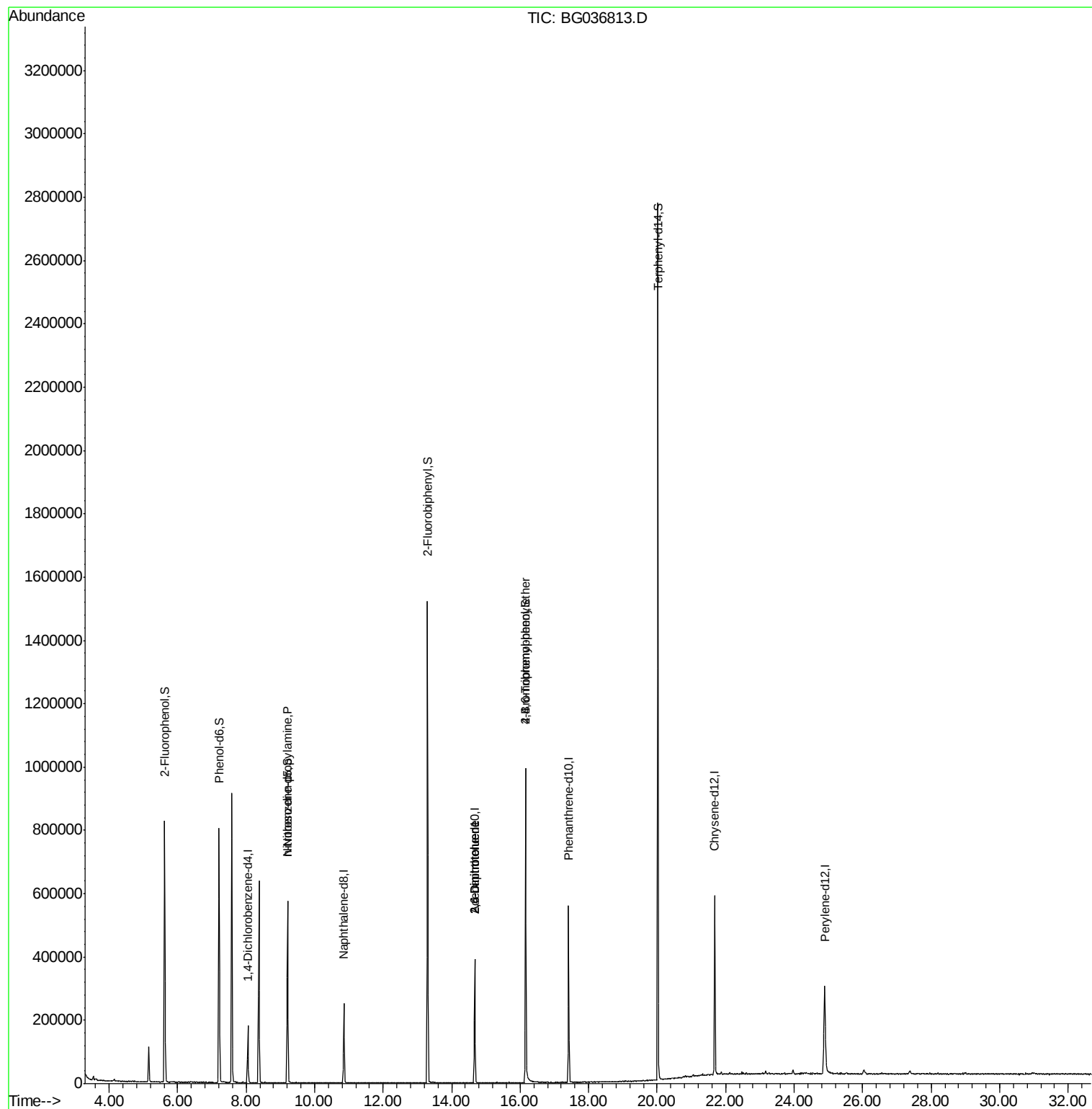
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.05  | 152  | 51011    | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8             | 10.85 | 136  | 214211   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10           | 14.67 | 164  | 138048   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10           | 17.42 | 188  | 344229   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12               | 21.68 | 240  | 347383   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12               | 24.89 | 264  | 332594   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.62  | 112  | 354187   | 110.14 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.21  | 99   | 456831   | 99.22  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.21  | 82   | 350304   | 88.73  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 16.16 | 330  | 184317   | 111.90 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 13.30 | 172  | 771366   | 79.78  | ng    | -0.01    |
| 78) Terphenyl-d14              | 20.02 | 244  | 1291052  | 86.87  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.21  | 70   | 47328    | 13.754 | ng    | # 72     |
| 50) 2,6-Dinitrotoluene         | 14.67 | 165  | 17823    | 7.684  | ng    | # 22     |
| 56) 2,4-Dinitrotoluene         | 14.67 | 165  | 17823    | 5.896  | ng    | # 20     |
| 66) 4-Bromophenyl-phenylether  | 16.16 | 248  | 13146    | 3.262  | ng    | # 1      |

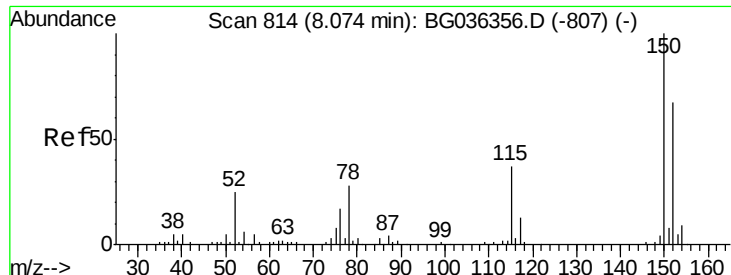
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG091818\  
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Sample : J4936-42  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG082318.M  
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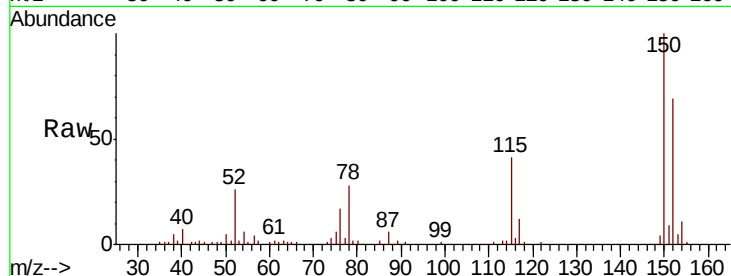


#1

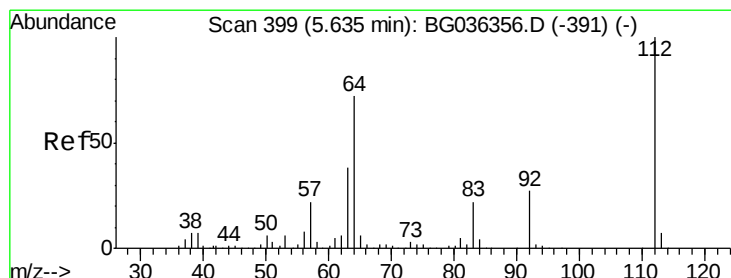
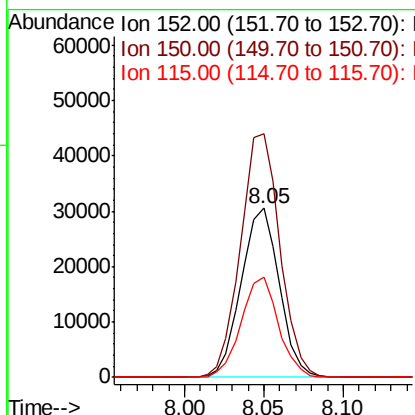
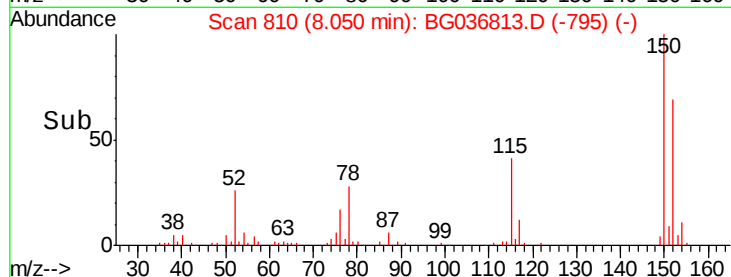
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 8.05 min Scan# 810  
 Delta R.T. -0.01 min  
 Lab File: BG036813.D  
 Acq: 19 Sep 2018 9:27

Instrument :  
 BNA\_G  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 144.1 | 119.5 | 179.3 |
| 115     | 59.0  | 44.5  | 66.7  |



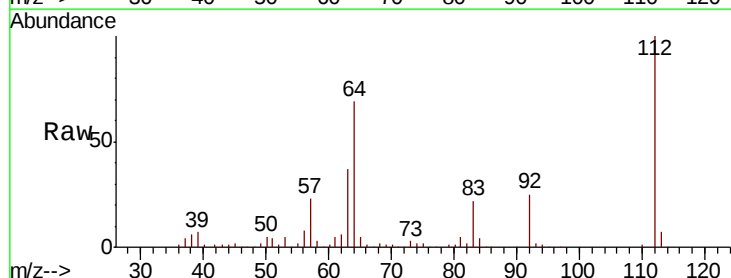
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



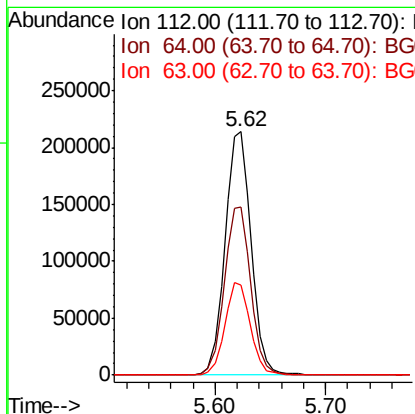
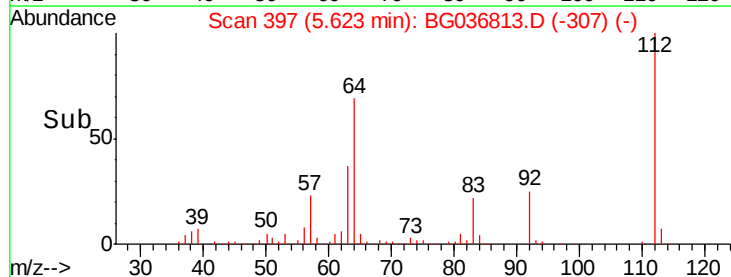
#5

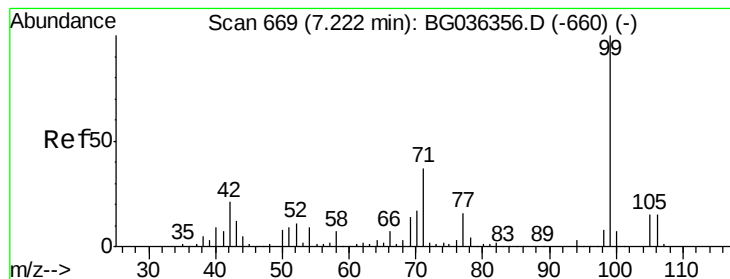
2-Fluorophenol  
 Concen: 110.142 ng  
 RT: 5.62 min Scan# 397  
 Delta R.T. -0.00 min  
 Lab File: BG036813.D  
 Acq: 19 Sep 2018 9:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 69.1  | 57.2  | 85.8  |
| 63      | 37.0  | 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: 99.222 ng

RT: 7.21 min Scan# 667

Delta R.T. -0.01 min

Lab File: BG036813.D

Acq: 19 Sep 2018 9:27

Instrument :

BNA\_G

ClientSampleId :

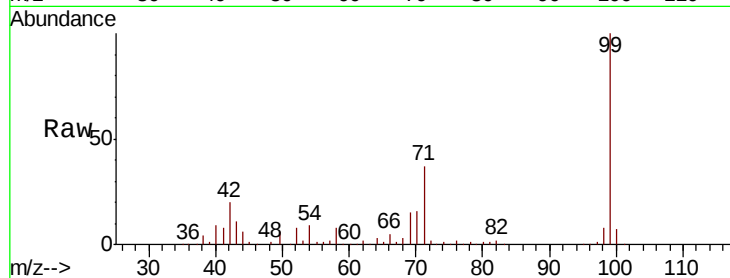
Tot Ion: 99 Resp: 456831

Ion Ratio Lower Upper

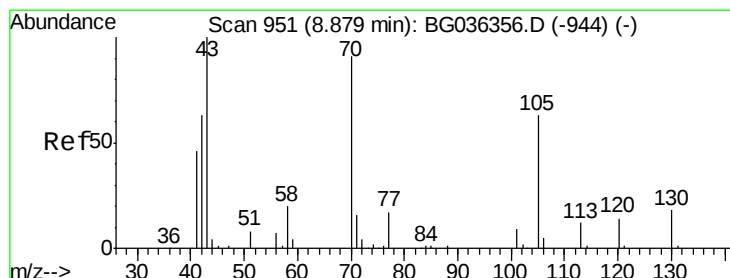
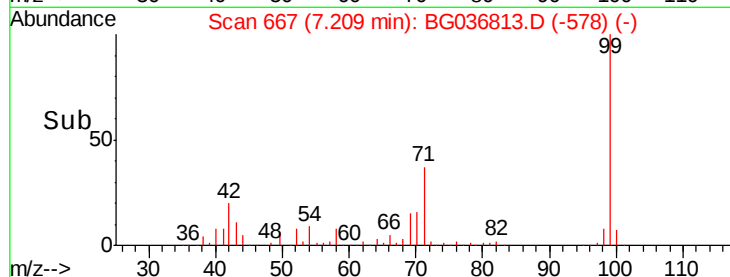
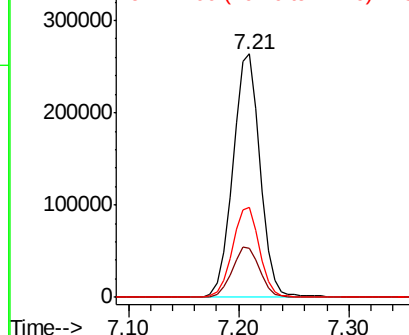
99 100

42 20.2 16.5 24.7

71 36.7 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: 13.754 ng

RT: 9.21 min Scan# 1007

Delta R.T. 0.34 min

Lab File: BG036813.D

Acq: 19 Sep 2018 9:27

Tgt Ion: 70 Resp: 47328

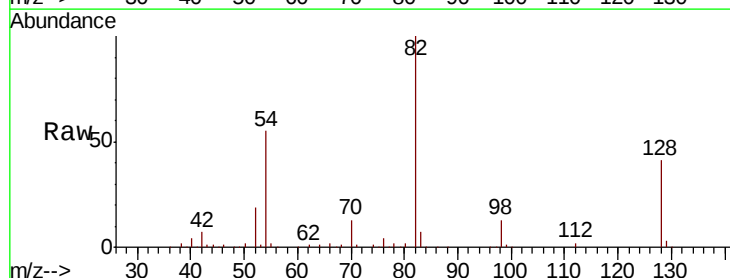
Ion Ratio Lower Upper

70 100

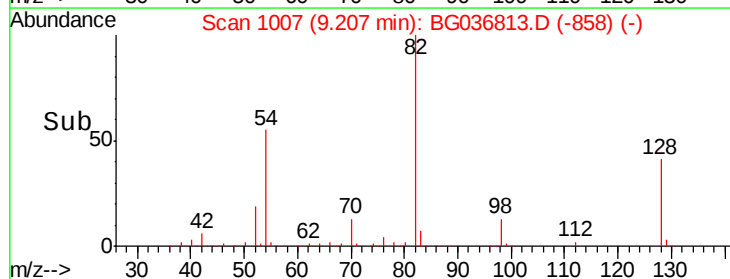
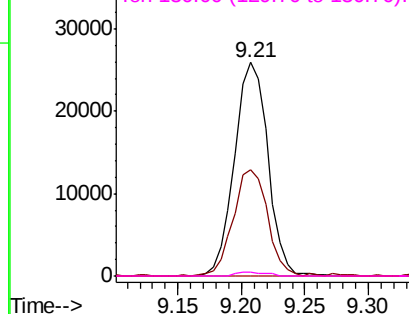
42 49.6 56.2 84.4#

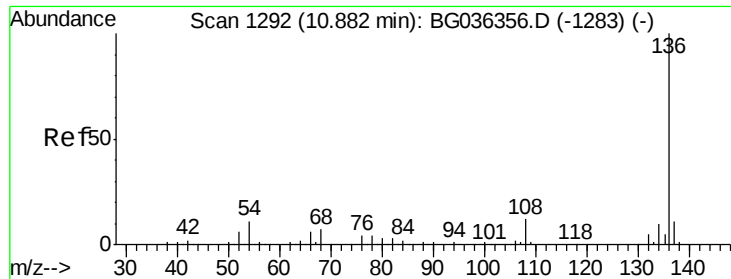
101 0.0 7.8 11.6#

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

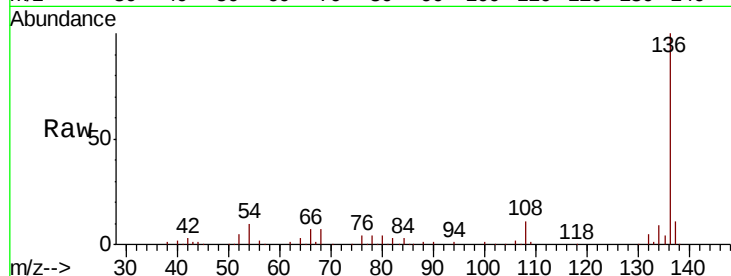




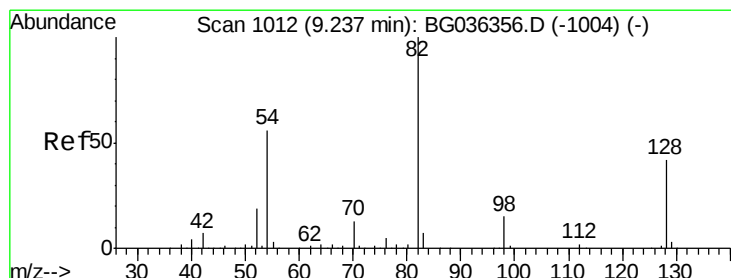
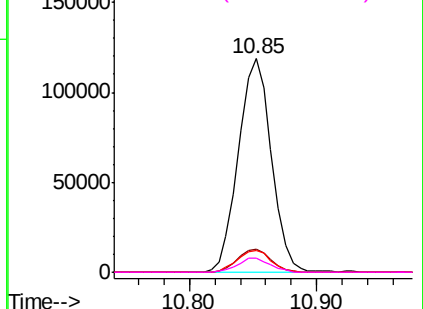
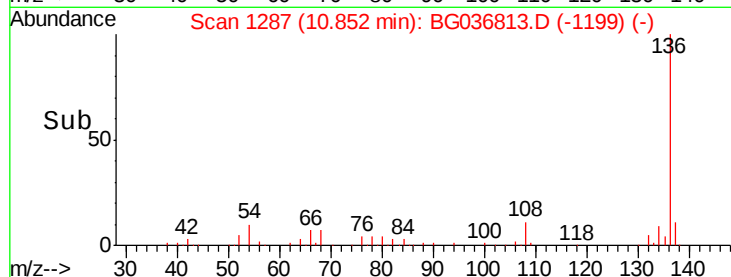
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.85 min Scan# 1287  
Delta R.T. -0.01 min  
Lab File: BG036813.D  
Acq: 19 Sep 2018 9:27

Instrument :  
BNA\_G  
ClientSampleId :

|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 214211   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 10.6  | 8.8 13.2 |
| 54          | 10.3  | 9.2 13.8 |
| 68          | 6.8   | 5.8 8.6  |

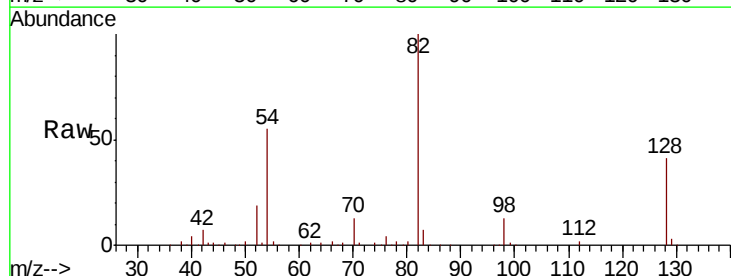


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

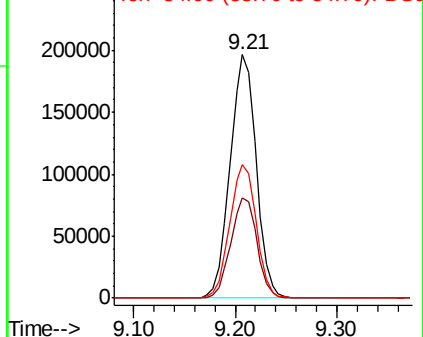
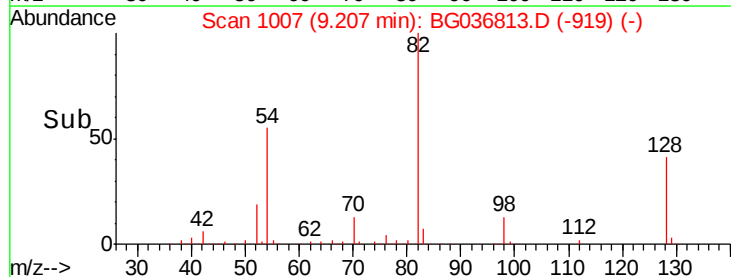


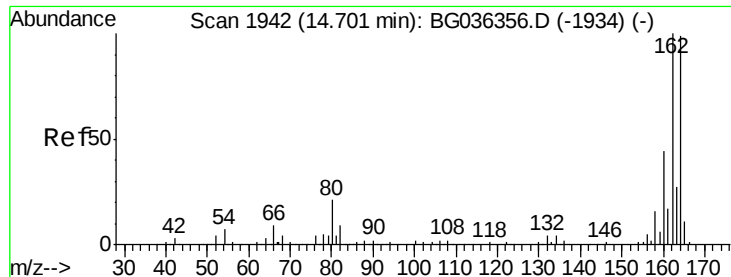
#23  
Nitrobenzene-d5  
Concen: 88.727 ng  
RT: 9.21 min Scan# 1007  
Delta R.T. -0.01 min  
Lab File: BG036813.D  
Acq: 19 Sep 2018 9:27

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 350304    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 41.4  | 33.3 49.9 |
| 54          | 54.6  | 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: BG036813.D

Acq: 19 Sep 2018 9:27

Instrument :

BNA\_G

ClientSampleId :

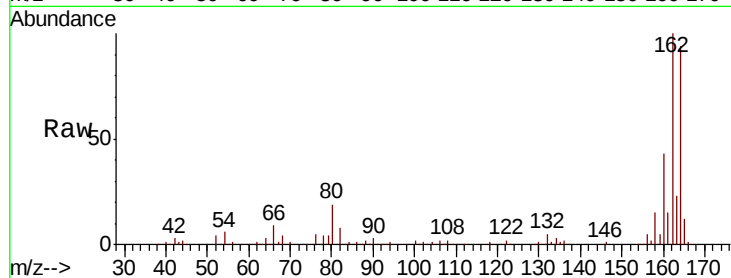
Tot Ion:164 Resp: 138048

Ion Ratio Lower Upper

164 100

162 106.9 80.7 121.1

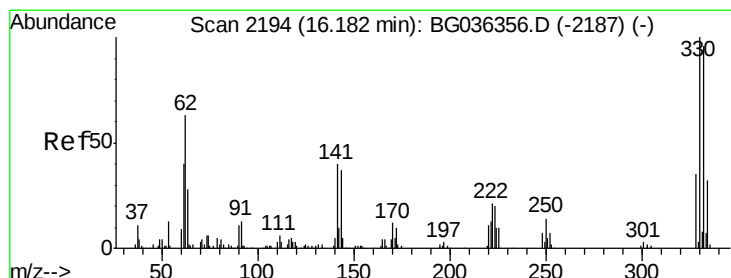
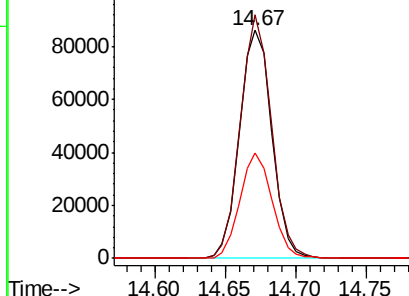
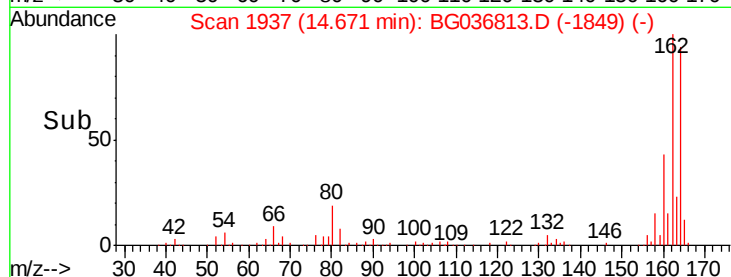
160 46.4 35.3 52.9



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: 111.896 ng

RT: 16.16 min Scan# 2190

Delta R.T. -0.01 min

Lab File: BG036813.D

Acq: 19 Sep 2018 9:27

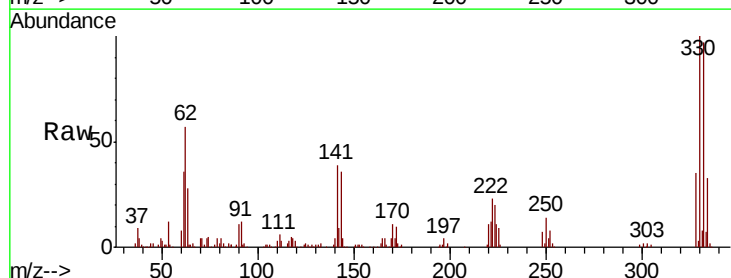
Tgt Ion:330 Resp: 184317

Ion Ratio Lower Upper

330 100

332 96.2 75.4 113.2

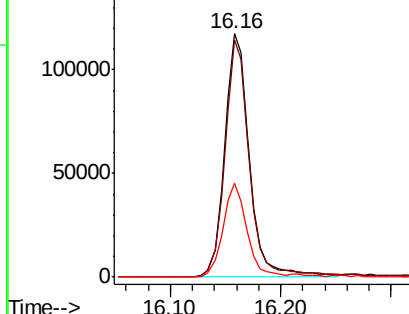
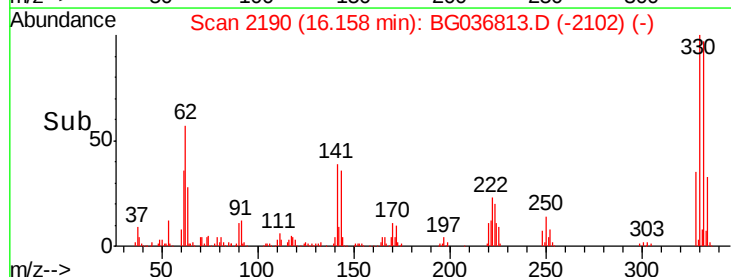
141 37.8 30.7 46.1

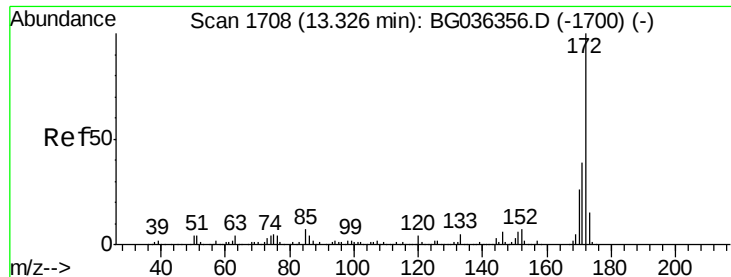


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

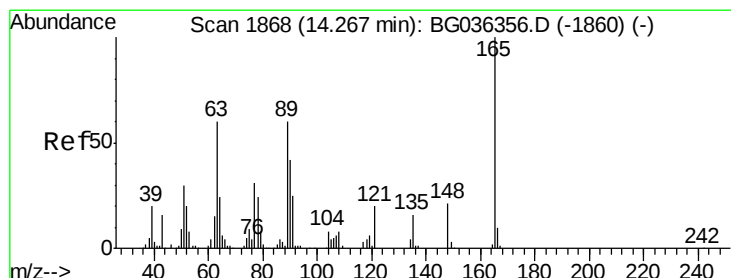
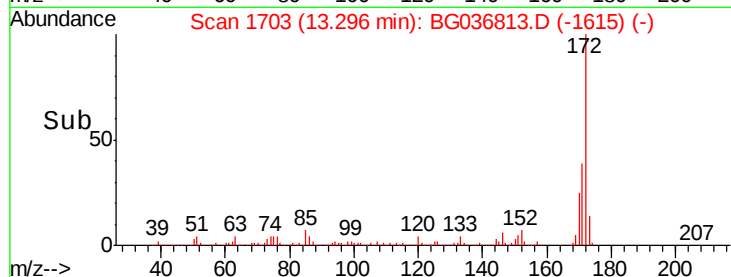
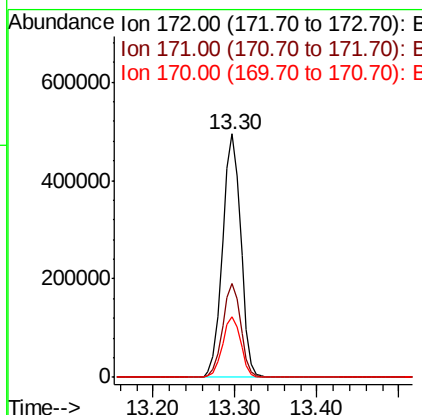
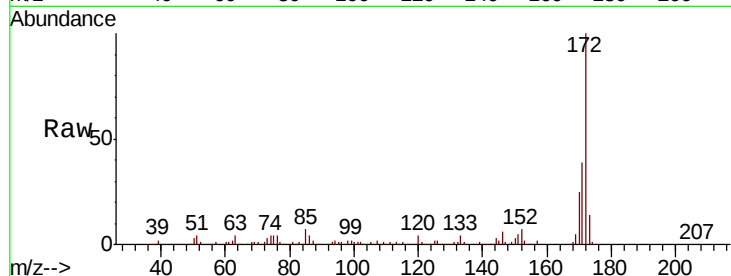




#44  
 2-Fluorobiphenyl  
 Concen: 79.782 ng  
 RT: 13.30 min Scan# 1703  
 Delta R.T. -0.01 min  
 Lab File: BG036813.D  
 Acq: 19 Sep 2018 9:27

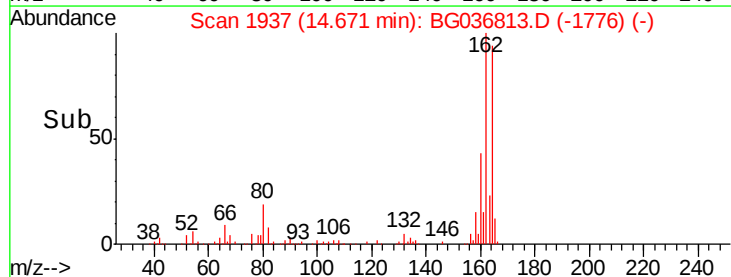
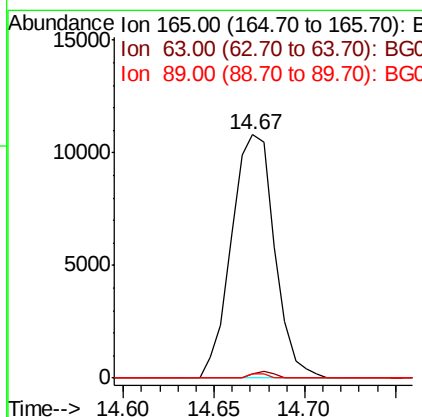
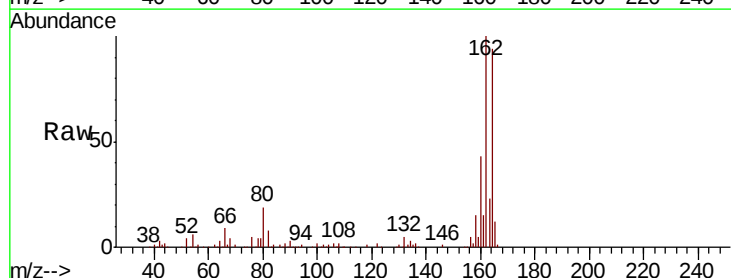
Instrument :  
 BNA\_G  
 ClientSampleId :

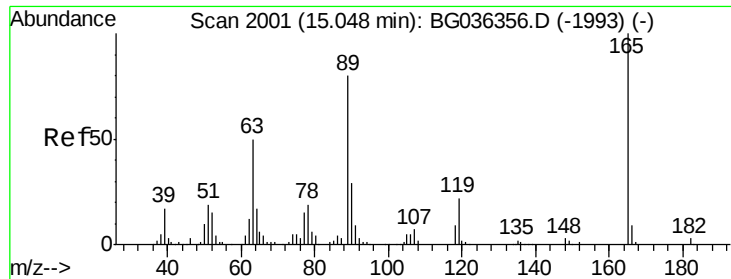
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 38.6  | 31.3  | 46.9  |
| 170     | 25.1  | 21.0  | 31.6  |



#50  
 2,6-Dinitrotoluene  
 Concen: 7.684 ng  
 RT: 14.67 min Scan# 1937  
 Delta R.T. 0.41 min  
 Lab File: BG036813.D  
 Acq: 19 Sep 2018 9:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.6   | 50.1  | 75.1# |
| 89      | 2.0   | 47.8  | 71.6# |

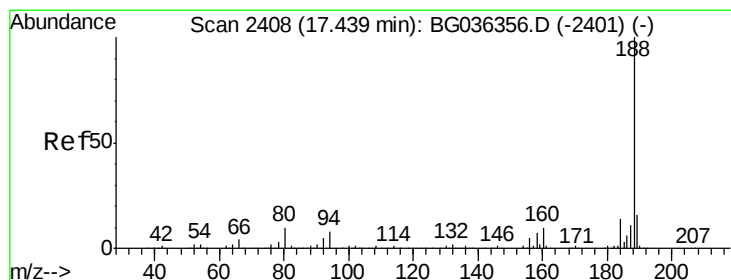
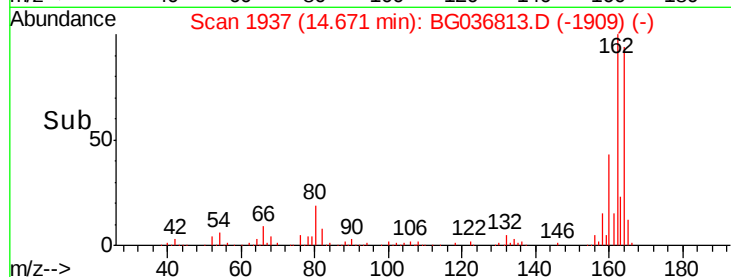
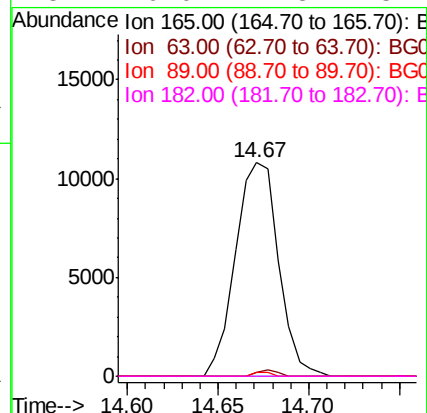
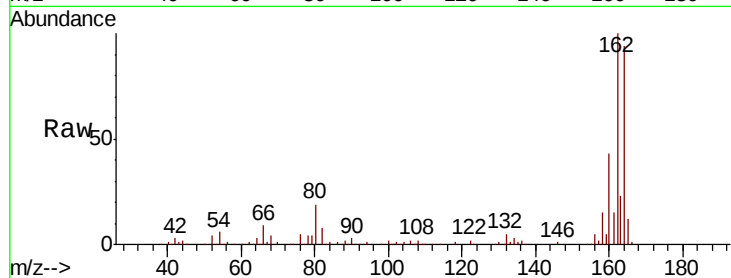




#56  
 2,4-Dinitrotoluene  
 Concen: 5.896 ng  
 RT: 14.67 min Scan# 1937  
 Delta R.T. -0.37 min  
 Lab File: BG036813.D  
 Acq: 19 Sep 2018 9:27

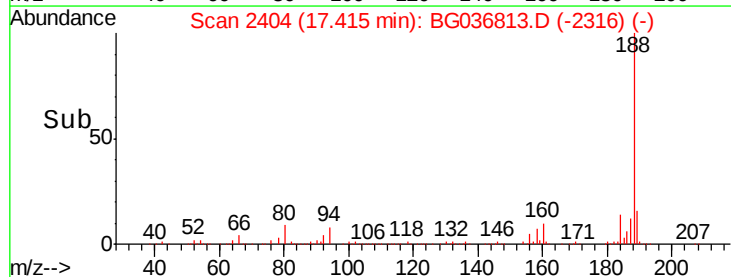
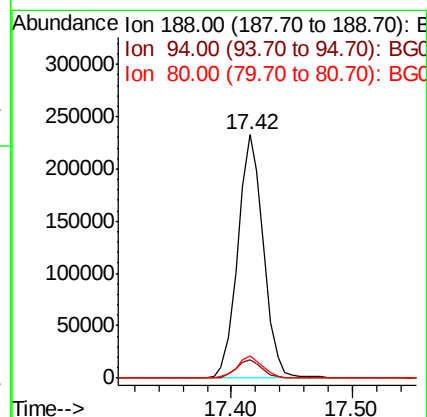
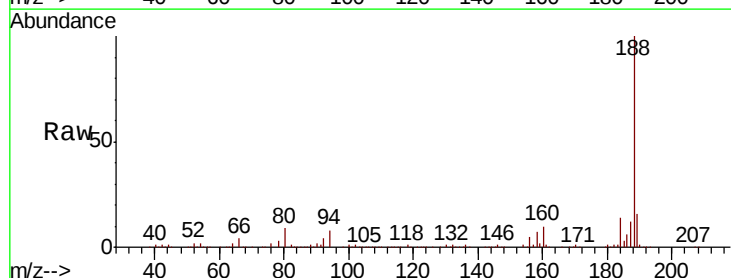
Instrument :  
 BNA\_G  
 ClientSampleId :

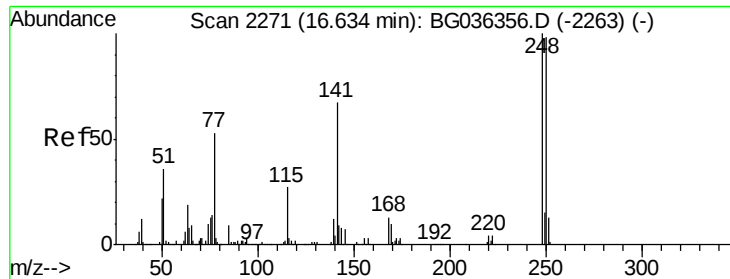
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.6   | 40.1  | 60.1# |
| 89      | 2.0   | 63.7  | 95.5# |
| 182     | 0.0   | 2.5   | 3.7#  |



#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.42 min Scan# 2404  
 Delta R.T. -0.01 min  
 Lab File: BG036813.D  
 Acq: 19 Sep 2018 9:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 7.8   | 6.7   | 10.1  |
| 80      | 9.0   | 8.1   | 12.1  |

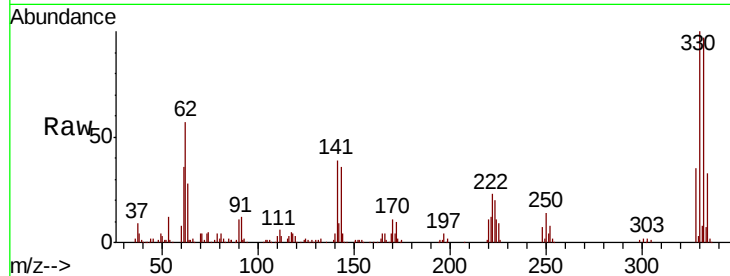




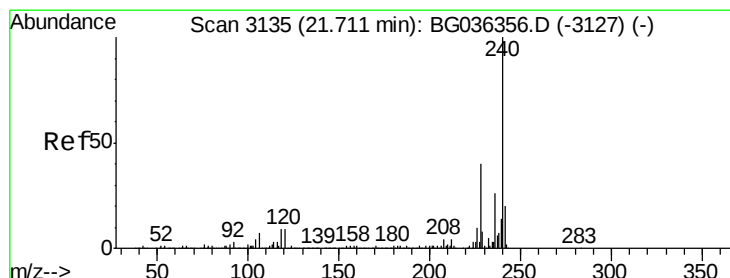
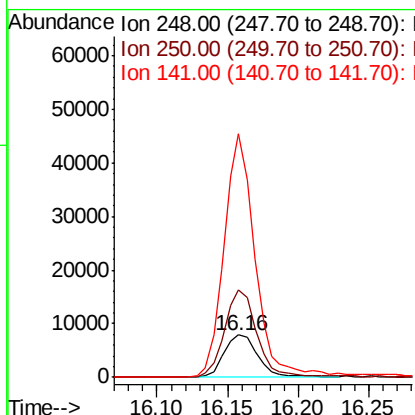
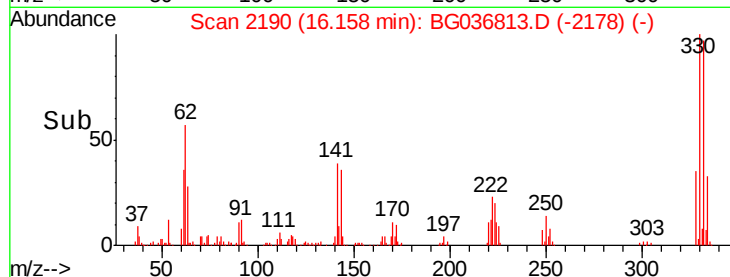
#66  
 4-Bromophenyl-phenylether  
 Concen: 3.262 ng  
 RT: 16.16 min Scan# 2190  
 Delta R.T. -0.46 min  
 Lab File: BG036813.D  
 Acq: 19 Sep 2018 9:27

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:248 Resp: 13146  
 Ion Ratio Lower Upper  
 248 100  
 250 206.8 78.1 117.1#  
 141 574.3 53.7 80.5#

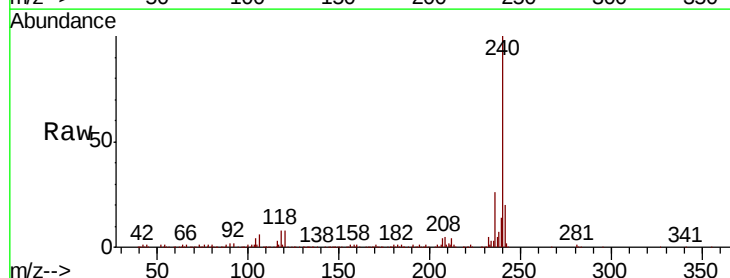


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

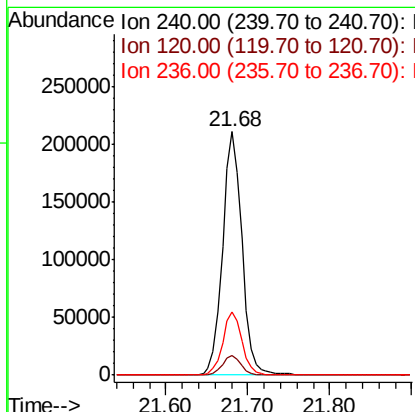
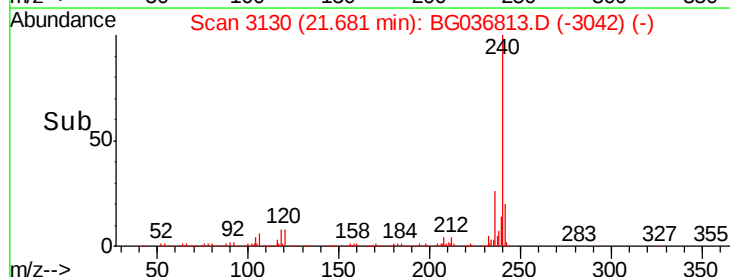


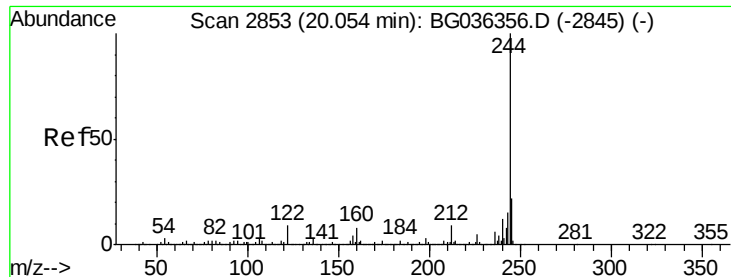
#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.68 min Scan# 3130  
 Delta R.T. -0.01 min  
 Lab File: BG036813.D  
 Acq: 19 Sep 2018 9:27

Tgt Ion:240 Resp: 347383  
 Ion Ratio Lower Upper  
 240 100  
 120 7.9 6.9 10.3  
 236 25.9 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: 86.868 ng

RT: 20.02 min Scan# 2848

Delta R.T. -0.01 min

Lab File: BG036813.D

Acq: 19 Sep 2018 9:27

Instrument :

BNA\_G

ClientSampleId :

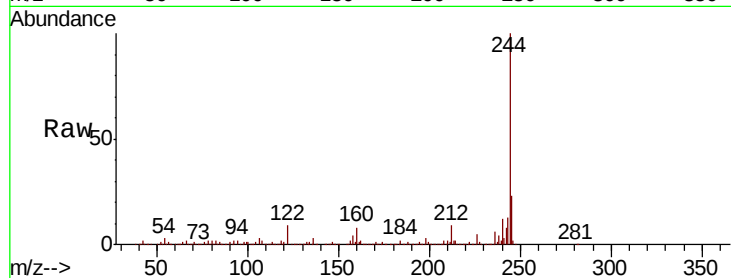
Tot Ion:244 Resp: 1291052

Ion Ratio Lower Upper

244 100

212 9.1 7.0 10.6

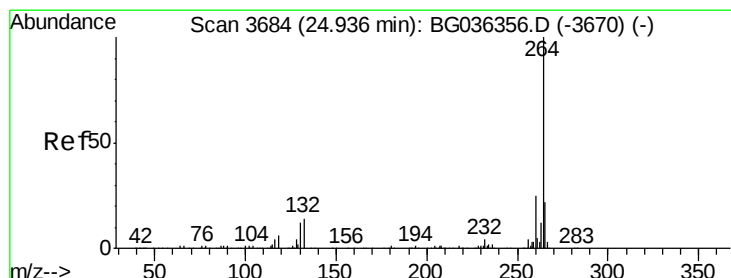
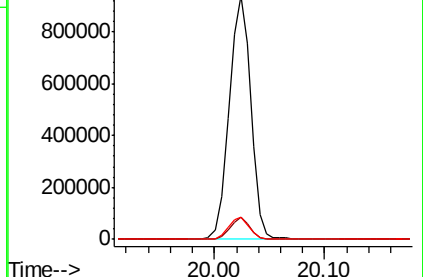
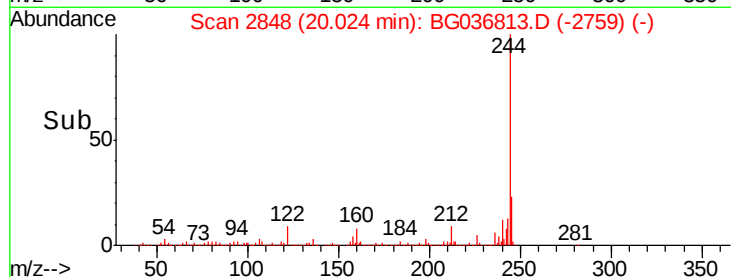
122 9.1 7.1 10.7



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# 3676

Delta R.T. -0.01 min

Lab File: BG036813.D

Acq: 19 Sep 2018 9:27

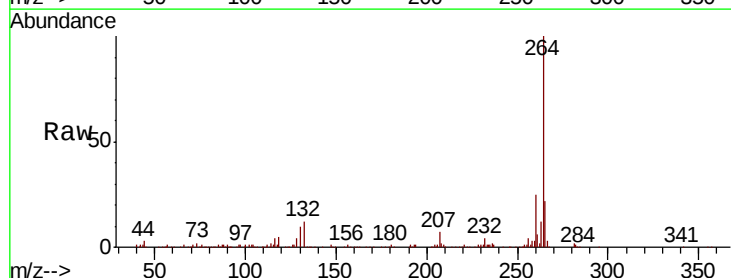
Tgt Ion:264 Resp: 332594

Ion Ratio Lower Upper

264 100

260 24.6 19.6 29.4

265 21.8 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

