

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG120618\  
 Data File : BG038398.D  
 Acq On : 7 Dec 2018 1:45  
 Operator : JU/SJ  
 Sample : J6254-02  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Dec 07 04:32:15 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG120418.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Dec 04 17:15:40 2018  
 Response via : Initial Calibration

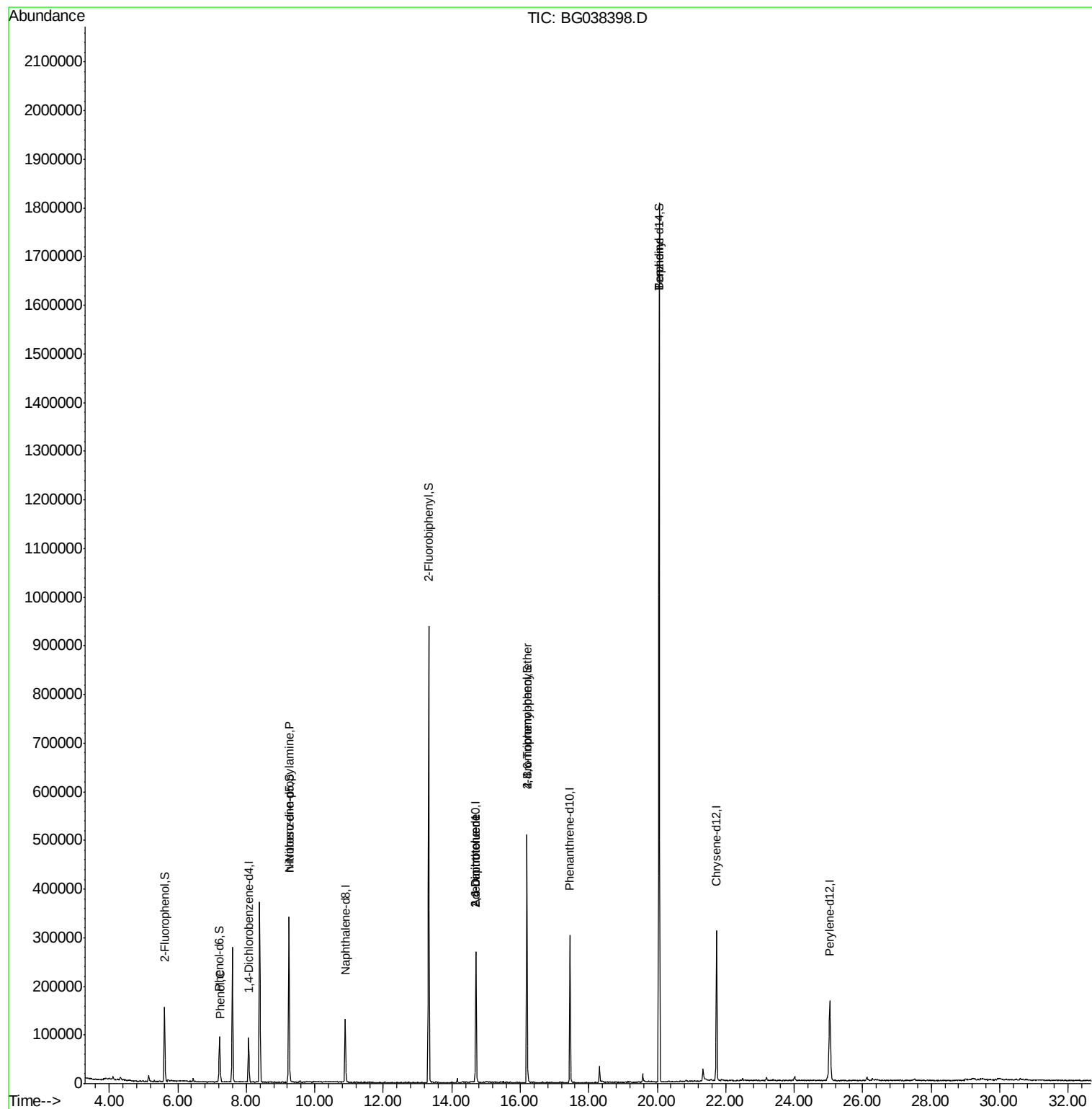
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.07  | 152  | 26690    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.89 | 136  | 118873   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.70 | 164  | 96568    | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.45 | 188  | 195907   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.73 | 240  | 187032   | 20.00  | ng    | -0.01    |
| 87) Perylene-d12               | 25.04 | 264  | 198003   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.61  | 112  | 68010    | 45.09  | ng    | 0.00     |
| 7) Phenol-d6                   | 7.21  | 99   | 56980    | 26.14  | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 9.25  | 82   | 209509   | 87.50  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.20 | 330  | 100311   | 84.62  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.33 | 172  | 514913   | 75.98  | ng    | 0.00     |
| 79) Terphenyl-d14              | 20.06 | 244  | 881512   | 100.97 | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 10) Phenol                     | 7.24  | 94   | 10969    | 4.763  | ng    | 94       |
| 19) n-Nitroso-di-n-propylamine | 9.25  | 70   | 28548    | 16.692 | ng    | # 73     |
| 51) 2,6-Dinitrotoluene         | 14.71 | 165  | 12391    | 7.003  | ng    | # 27     |
| 57) 2,4-Dinitrotoluene         | 14.71 | 165  | 12391    | 5.078  | ng    | # 26     |
| 67) 4-Bromophenyl-phenylether  | 16.20 | 248  | 7231     | 3.418  | ng    | # 1      |
| 77) Benzidine                  | 20.06 | 184  | 15633    | 2.477  | ng    | 95       |

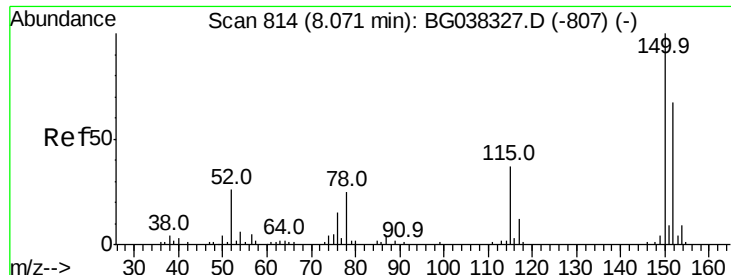
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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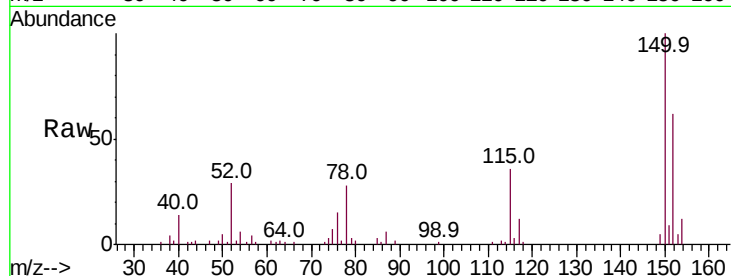


#1

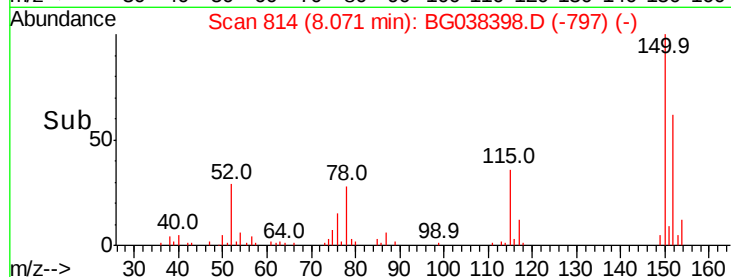
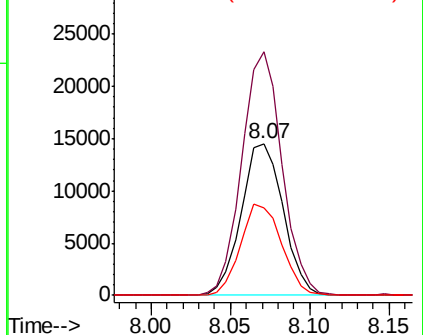
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.07 min Scan# 814  
Delta R.T. -0.00 min  
Lab File: BG038398.D  
Acq: 7 Dec 2018 1:45

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 26690  
Ion Ratio Lower Upper  
152 100  
150 160.7 126.0 189.0  
115 57.9 45.5 68.3



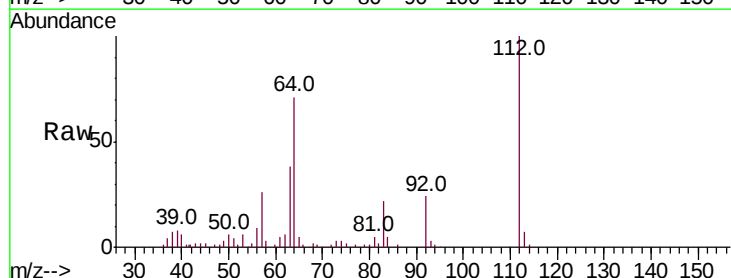
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



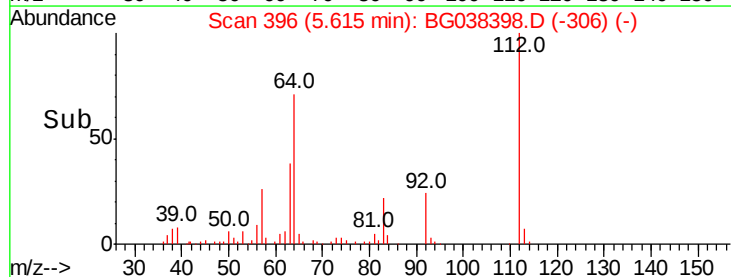
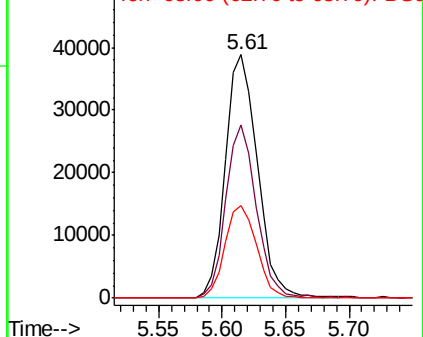
#5

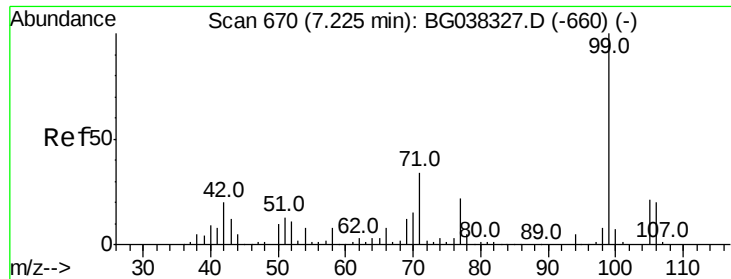
2-Fluorophenol  
Concen: 45.093 ng  
RT: 5.61 min Scan# 396  
Delta R.T. -0.00 min  
Lab File: BG038398.D  
Acq: 7 Dec 2018 1:45

Tgt Ion:112 Resp: 68010  
Ion Ratio Lower Upper  
112 100  
64 71.0 53.1 79.7  
63 38.1 27.3 40.9



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





#7

Phenol-d6

Concen: 26.139 ng

RT: 7.21 min Scan# 668

Delta R.T. -0.01 min

Lab File: BG038398.D

Acq: 7 Dec 2018 1:45

Instrument :

BNA\_G

ClientSampleId :

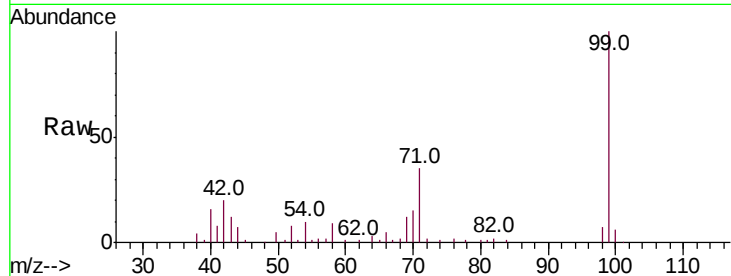
Tot Ion: 99 Resp: 56980

Ion Ratio Lower Upper

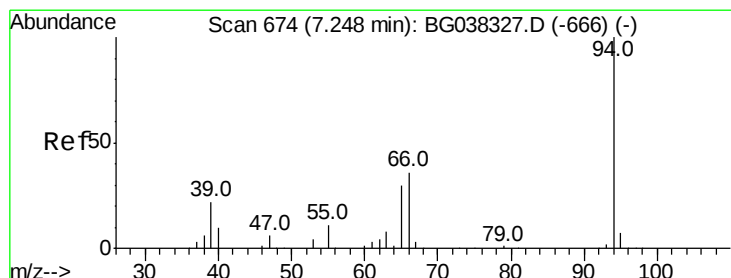
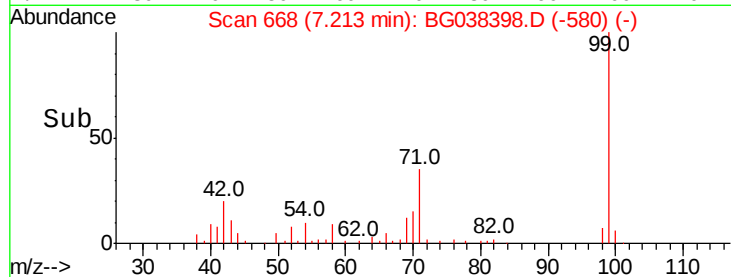
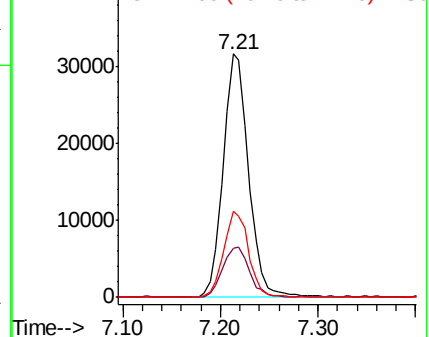
99 100

42 20.1 15.0 22.4

71 35.3 25.5 38.3



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



#10

Phenol

Concen: 4.763 ng

RT: 7.24 min Scan# 673

Delta R.T. -0.01 min

Lab File: BG038398.D

Acq: 7 Dec 2018 1:45

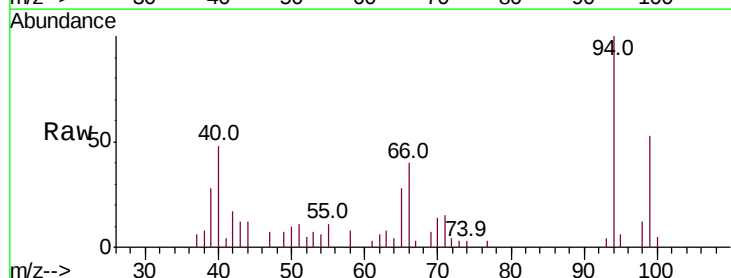
Tgt Ion: 94 Resp: 10969

Ion Ratio Lower Upper

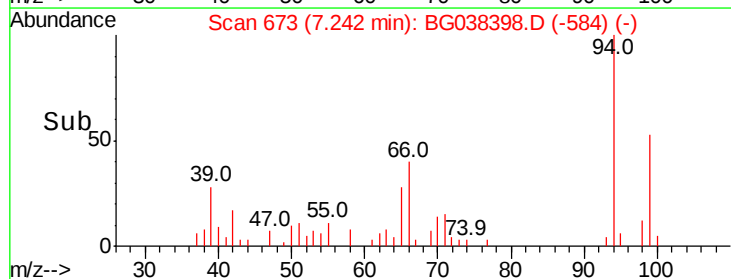
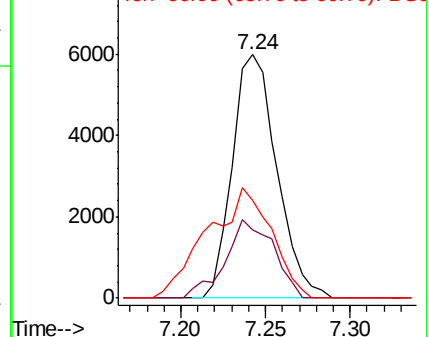
94 100

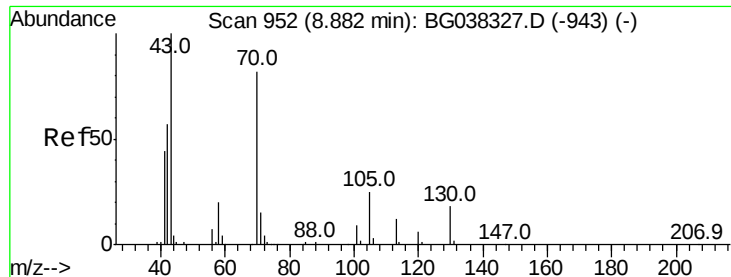
65 27.8 9.7 49.7

66 40.2 15.9 55.9



Abundance Ion 94.00 (93.70 to 94.70): BGC  
Ion 65.00 (64.70 to 65.70): BGC  
Ion 66.00 (65.70 to 66.70): BGC

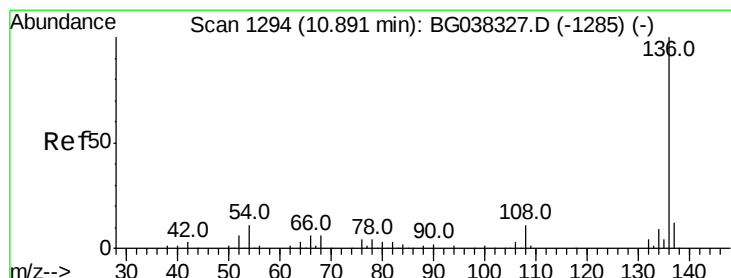
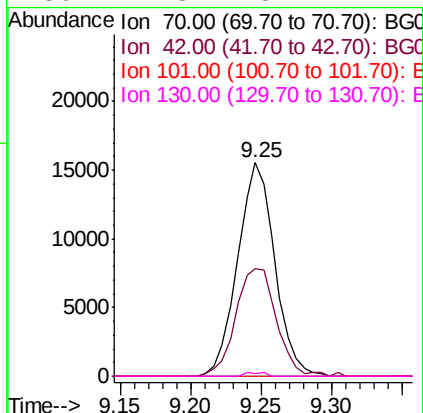
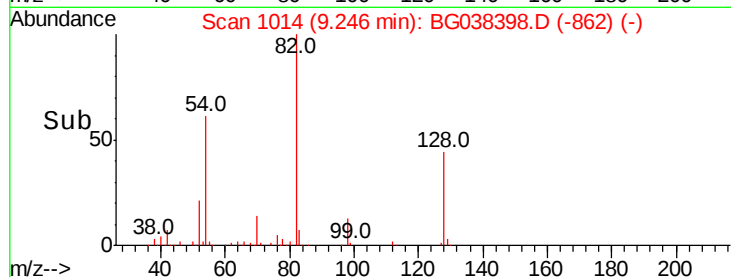
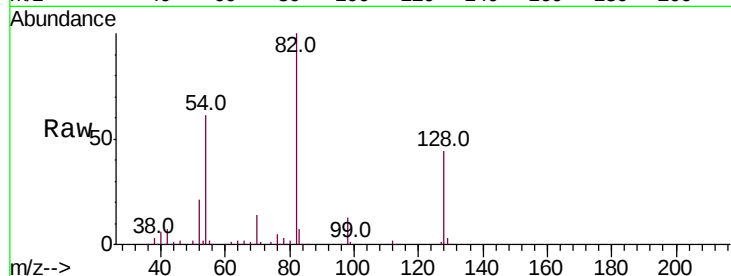




#19  
n-Nitroso-di-n-propylamine  
Concen: 16.692 ng  
RT: 9.25 min Scan# 1014  
Delta R.T. 0.36 min  
Lab File: BG038398.D  
Acq: 7 Dec 2018 1:45

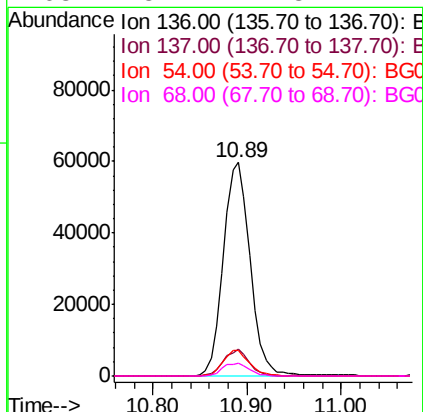
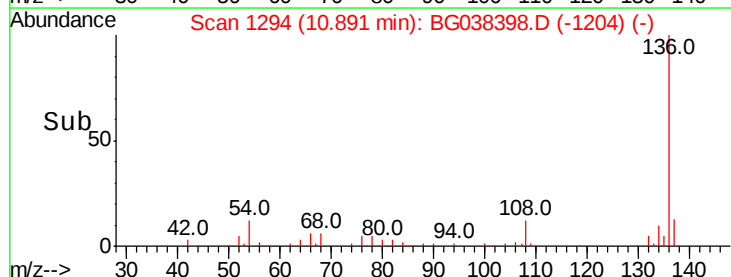
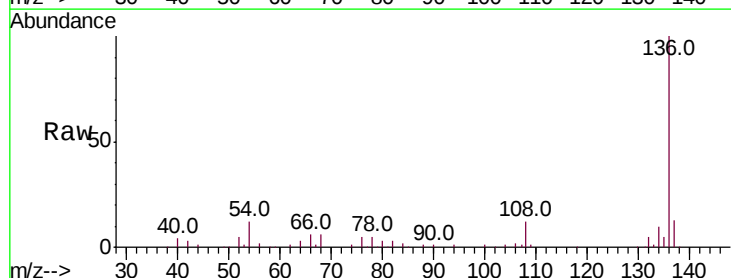
Instrument :  
BNA\_G  
ClientSampleId :

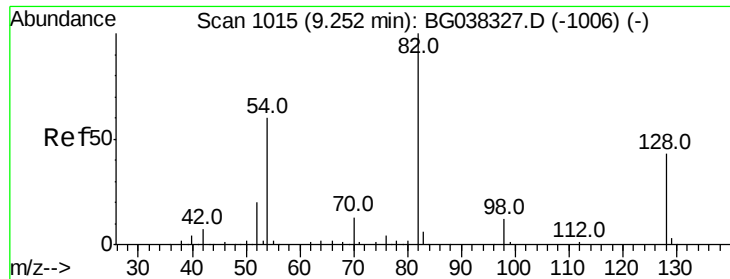
Tot Ion: 70 Resp: 28548  
Ion Ratio Lower Upper  
70 100  
42 50.3 53.9 80.9#  
101 0.0 8.2 12.2#  
130 1.3 18.2 27.4#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.89 min Scan# 1294  
Delta R.T. -0.00 min  
Lab File: BG038398.D  
Acq: 7 Dec 2018 1:45

Tgt Ion: 136 Resp: 118873  
Ion Ratio Lower Upper  
136 100  
137 12.5 9.6 14.4  
54 11.8 7.9 11.9  
68 5.7 4.8 7.2

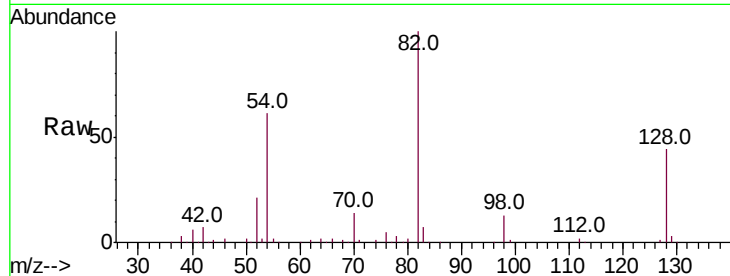




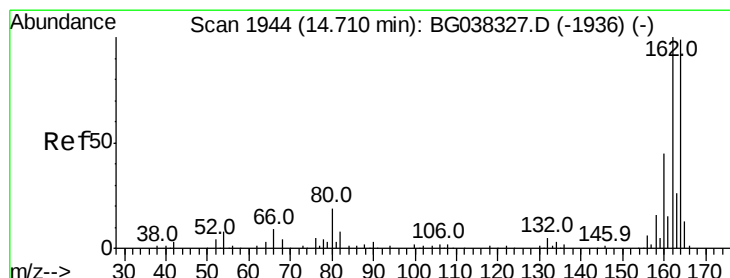
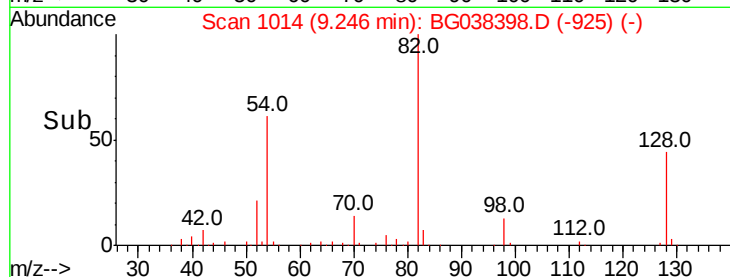
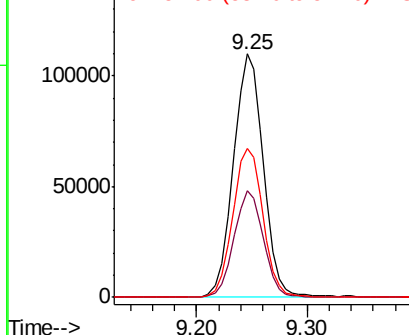
#23  
 Nitrobenzene-d5  
 Concen: 87.502 ng  
 RT: 9.25 min Scan# 1014  
 Delta R.T. -0.01 min  
 Lab File: BG038398.D  
 Acq: 7 Dec 2018 1:45

Instrument :  
 BNA\_G  
 ClientSampled :

| Tot Ion   | 82   | Resp  | 209509 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 128       | 44.0 | 34.6  | 51.8   |
| 54        | 61.4 | 45.3  | 67.9   |

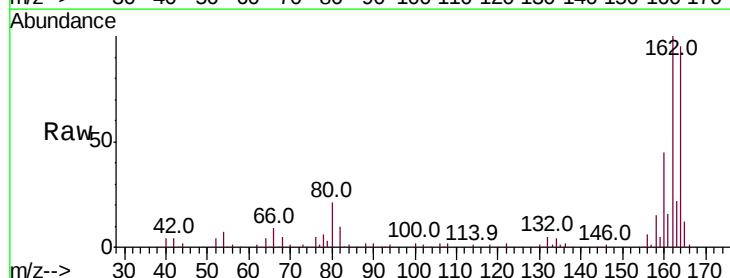


Abundance Ion 82.00 (81.70 to 82.70): BGC  
 Ion 128.00 (127.70 to 128.70): BGC  
 Ion 54.00 (53.70 to 54.70): BGC

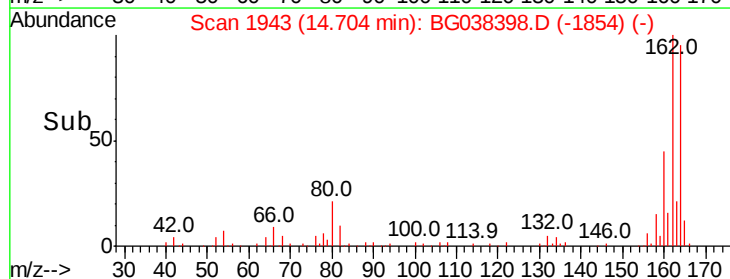
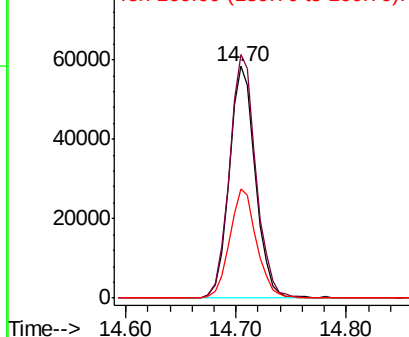


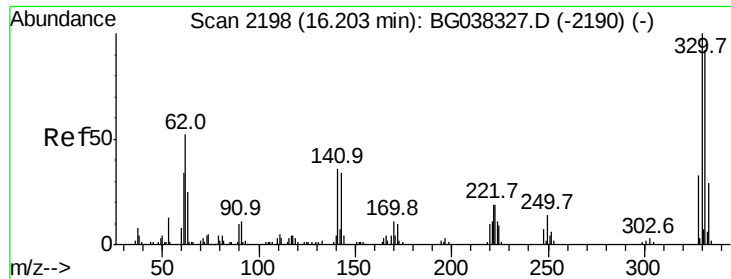
#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 14.70 min Scan# 1943  
 Delta R.T. -0.01 min  
 Lab File: BG038398.D  
 Acq: 7 Dec 2018 1:45

| Tgt Ion   | 164   | Resp  | 96568 |
|-----------|-------|-------|-------|
| Ion Ratio | 100   | Lower | Upper |
| 162       | 105.0 | 81.3  | 121.9 |
| 160       | 47.1  | 36.3  | 54.5  |



Abundance Ion 164.00 (163.70 to 164.70): BGC  
 Ion 162.00 (161.70 to 162.70): BGC  
 Ion 160.00 (159.70 to 160.70): BGC

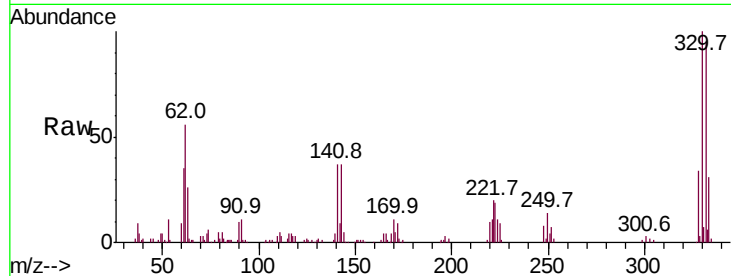




#42  
 2,4,6-Tribromophenol  
 Concen: 84.616 ng  
 RT: 16.20 min Scan# 2197  
 Delta R.T. -0.01 min  
 Lab File: BG038398.D  
 Acq: 7 Dec 2018 1:45

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.6  | 78.4  | 117.6 |
| 141     | 38.7  | 32.2  | 48.2  |

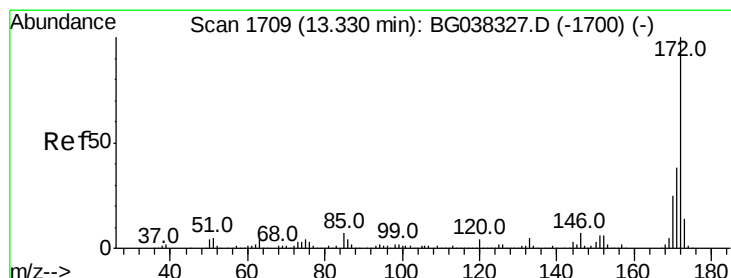
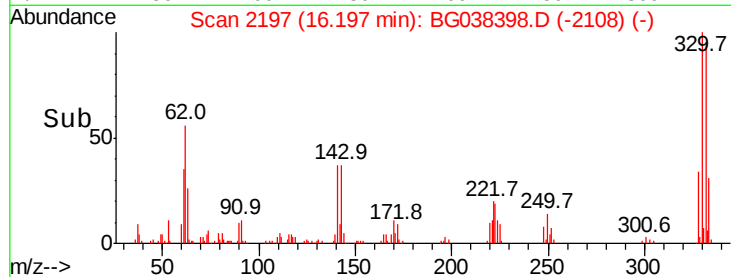
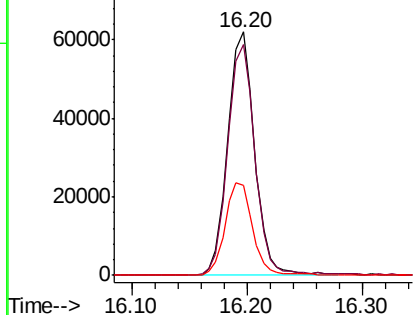


Abundance

Ion 329.80 (329.50 to 330.50): E

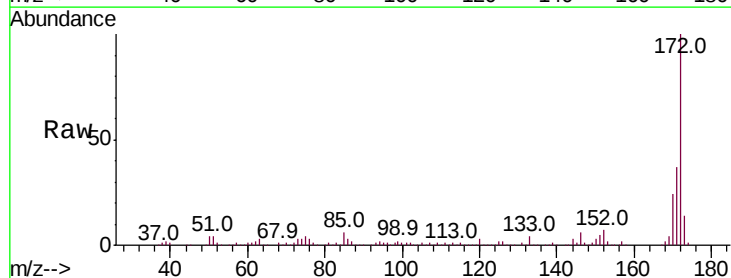
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45  
 2-Fluorobiphenyl  
 Concen: 75.978 ng  
 RT: 13.33 min Scan# 1709  
 Delta R.T. -0.00 min  
 Lab File: BG038398.D  
 Acq: 7 Dec 2018 1:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.6  | 31.0  | 46.4  |
| 170     | 24.1  | 20.2  | 30.2  |

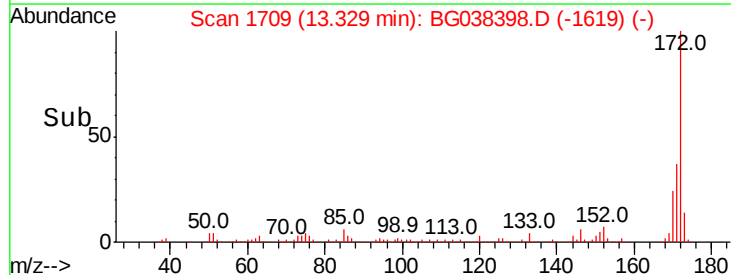
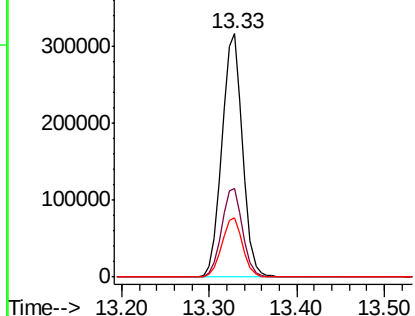


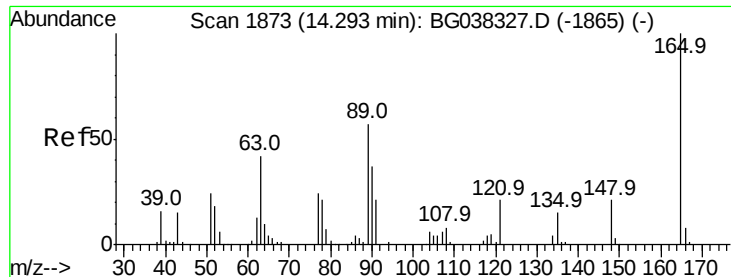
Abundance

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

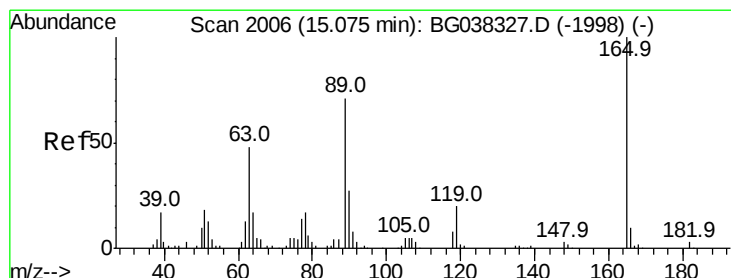
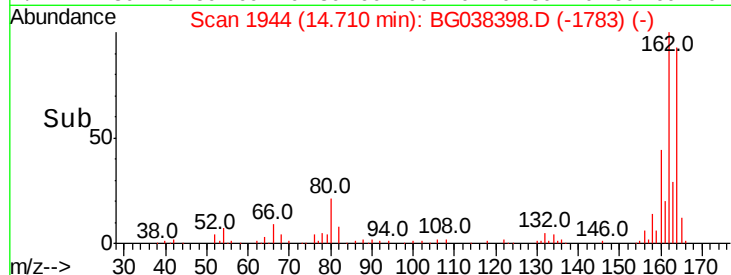
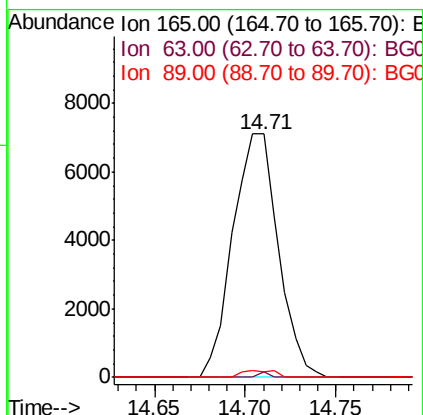
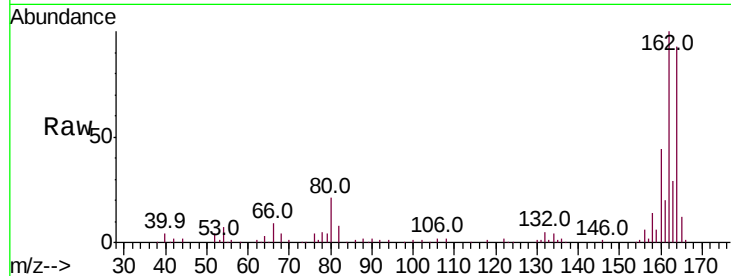




#51  
 2,6-Dinitrotoluene  
 Concen: 7.003 ng  
 RT: 14.71 min Scan# 1944  
 Delta R.T. 0.42 min  
 Lab File: BG038398.D  
 Acq: 7 Dec 2018 1:45

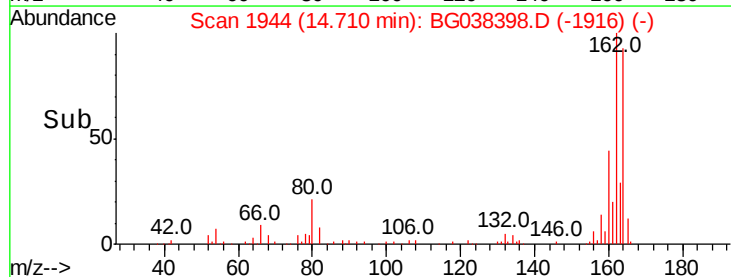
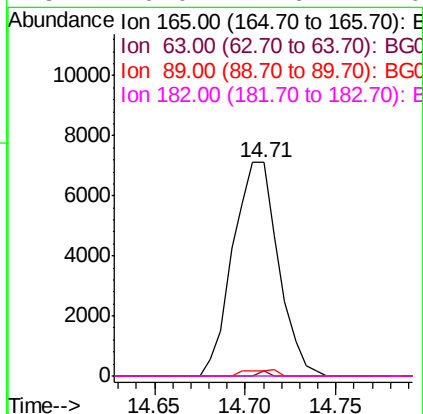
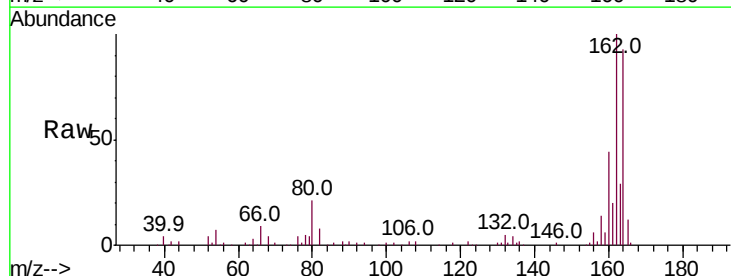
Instrument :  
 BNA\_G  
 ClientSampleId :

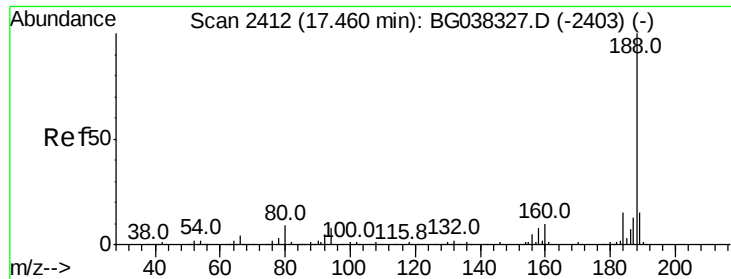
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 2.3   | 43.4  | 65.2# |
| 89      | 2.4   | 45.8  | 68.6# |



#57  
 2,4-Dinitrotoluene  
 Concen: 5.078 ng  
 RT: 14.71 min Scan# 1944  
 Delta R.T. -0.36 min  
 Lab File: BG038398.D  
 Acq: 7 Dec 2018 1:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 2.3   | 33.4  | 50.0# |
| 89      | 2.4   | 57.2  | 85.8# |
| 182     | 0.0   | 2.6   | 4.0#  |





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.45 min Scan# 2411

Delta R.T. -0.01 min

Lab File: BG038398.D

Acq: 7 Dec 2018 1:45

Instrument :

BNA\_G

ClientSampleId :

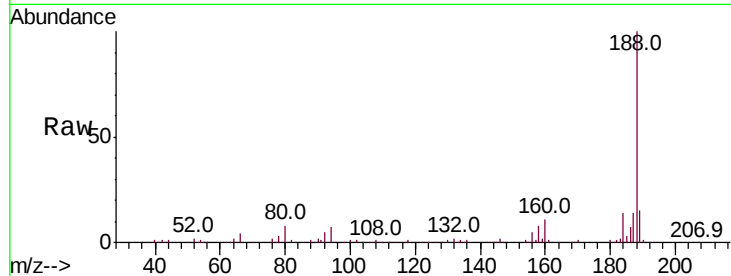
Tot Ion:188 Resp: 195907

Ion Ratio Lower Upper

188 100

94 7.2 7.2 10.8

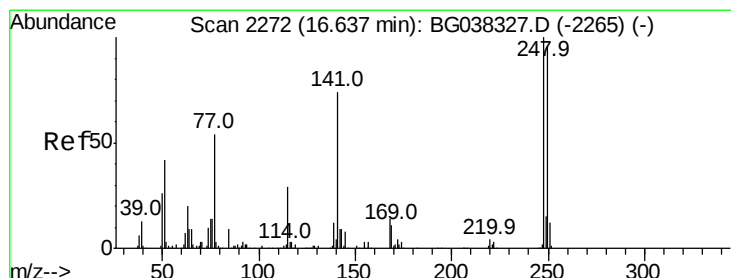
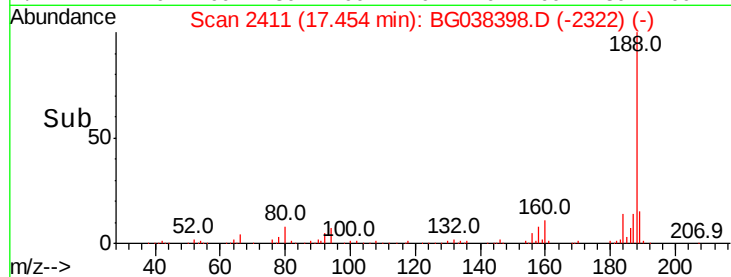
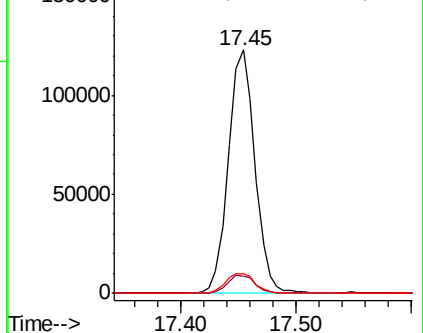
80 8.3 7.7 11.5



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



#67

4-Bromophenyl-phenylether

Concen: 3.418 ng

RT: 16.20 min Scan# 2197

Delta R.T. -0.44 min

Lab File: BG038398.D

Acq: 7 Dec 2018 1:45

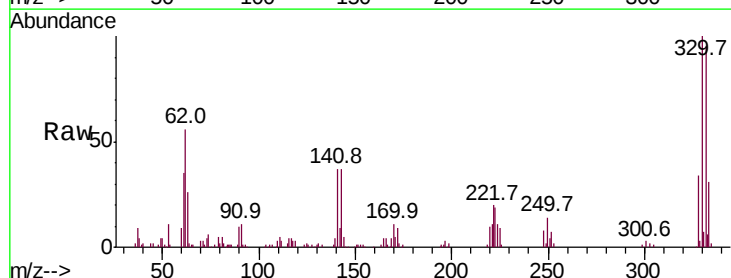
Tgt Ion:248 Resp: 7231

Ion Ratio Lower Upper

248 100

250 176.3 77.0 115.6#

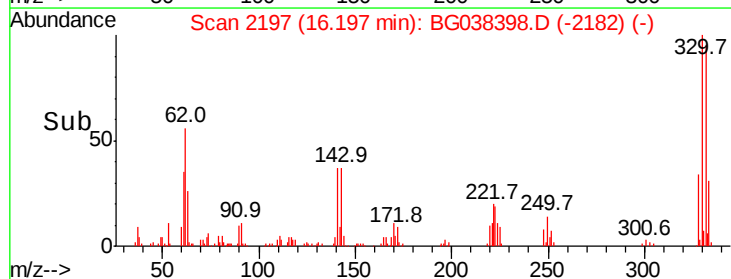
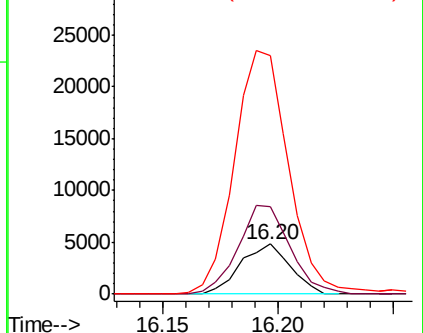
141 374.1 55.5 83.3#

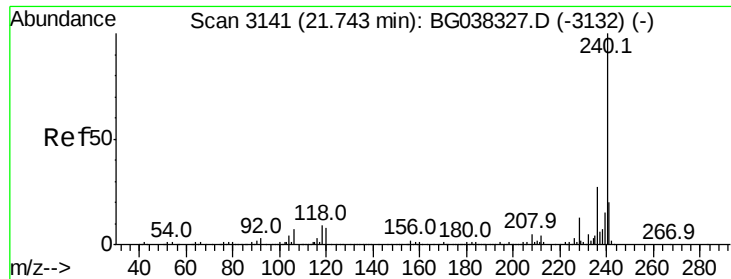


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.73 min Scan# 3139

Delta R.T. -0.01 min

Lab File: BG038398.D

Acq: 7 Dec 2018 1:45

Instrument :

BNA\_G

ClientSampled :

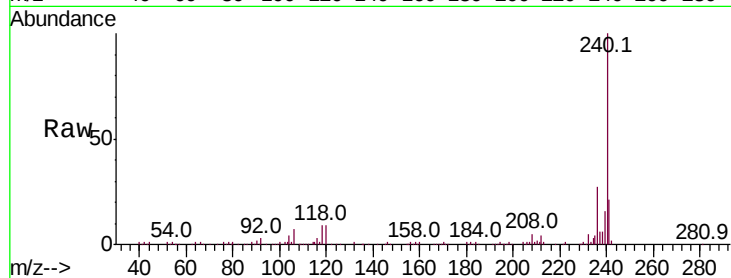
Tot Ion:240 Resp: 187032

Ion Ratio Lower Upper

240 100

120 8.9 8.1 12.1

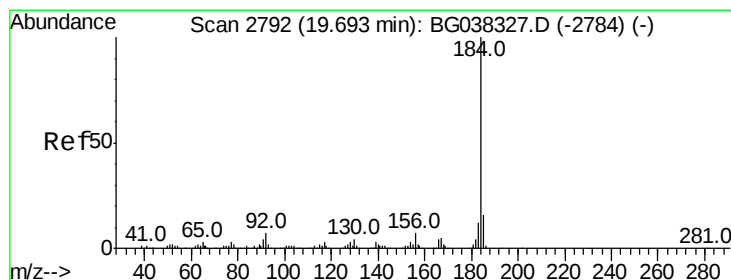
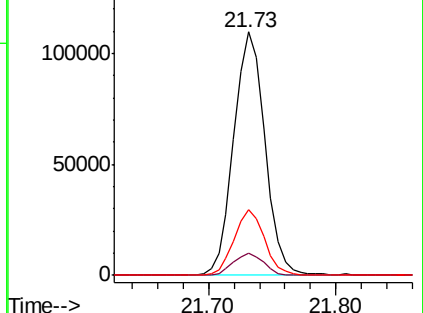
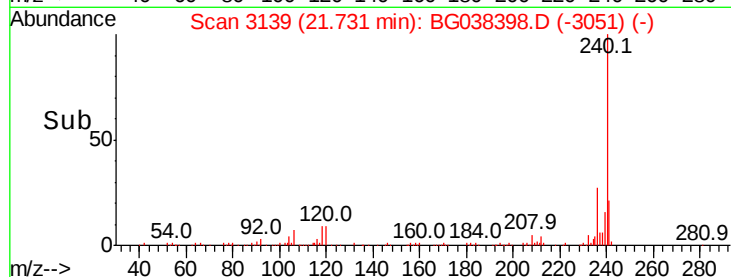
236 26.9 21.4 32.0



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



#77

Benzidine

Concen: 2.477 ng

RT: 20.06 min Scan# 2854

Delta R.T. 0.36 min

Lab File: BG038398.D

Acq: 7 Dec 2018 1:45

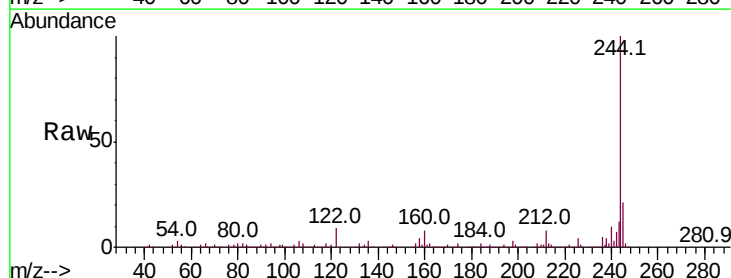
Tgt Ion:184 Resp: 15633

Ion Ratio Lower Upper

184 100

185 17.5 12.6 18.8

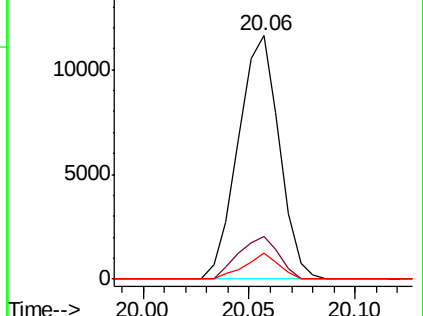
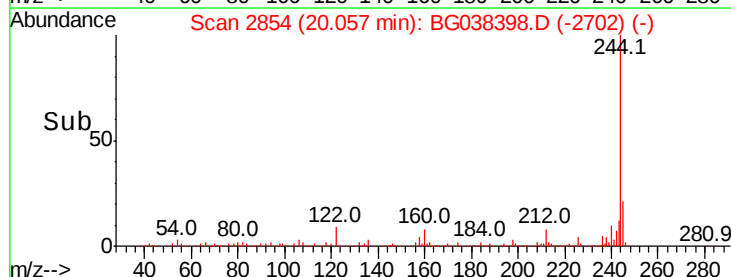
183 10.6 10.2 15.2

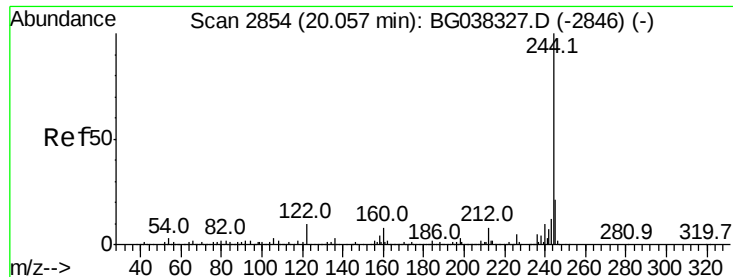


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#79

Terphenyl-d14

Concen: 100.968 ng

RT: 20.06 min Scan# 2854

Delta R.T. -0.00 min

Lab File: BG038398.D

Acq: 7 Dec 2018 1:45

Instrument :

BNA\_G

ClientSampleId :

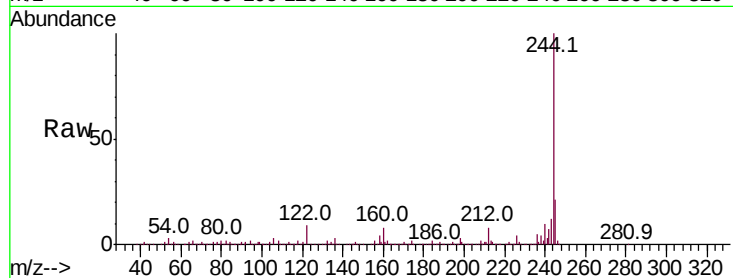
Tot Ion:244 Resp: 881512

Ion Ratio Lower Upper

244 100

212 7.8 6.5 9.7

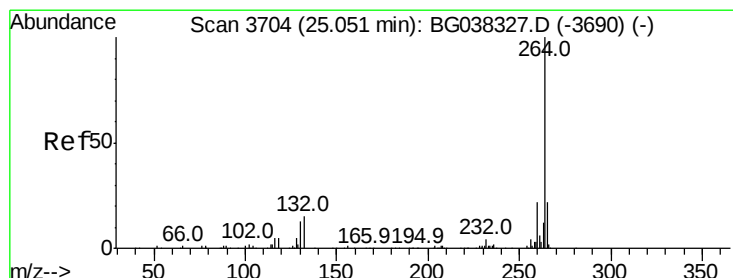
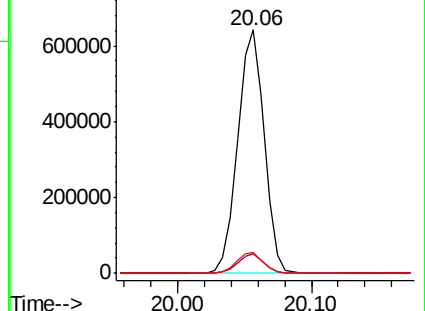
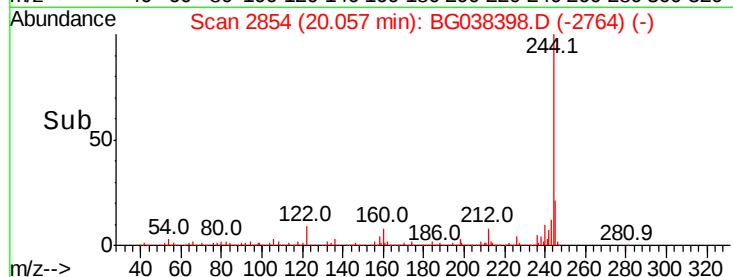
122 8.8 9.0 13.4#



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



#87

Perylene-d12

Concen: 20.000 ng

RT: 25.04 min Scan# 3702

Delta R.T. -0.01 min

Lab File: BG038398.D

Acq: 7 Dec 2018 1:45

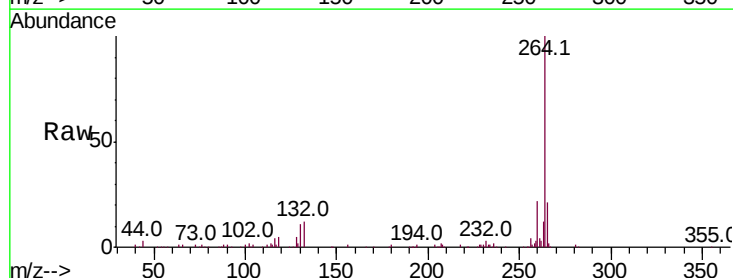
Tgt Ion:264 Resp: 198003

Ion Ratio Lower Upper

264 100

260 21.9 18.2 27.4

265 20.7 17.9 26.9



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

