

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG122618\  
 Data File : BG038837.D  
 Acq On : 26 Dec 2018 19:29  
 Operator : JU/SJ  
 Sample : PB115917TB  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB115917TB

Quant Time: Dec 27 00:17:37 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG121218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 12 15:26:27 2018  
 Response via : Initial Calibration

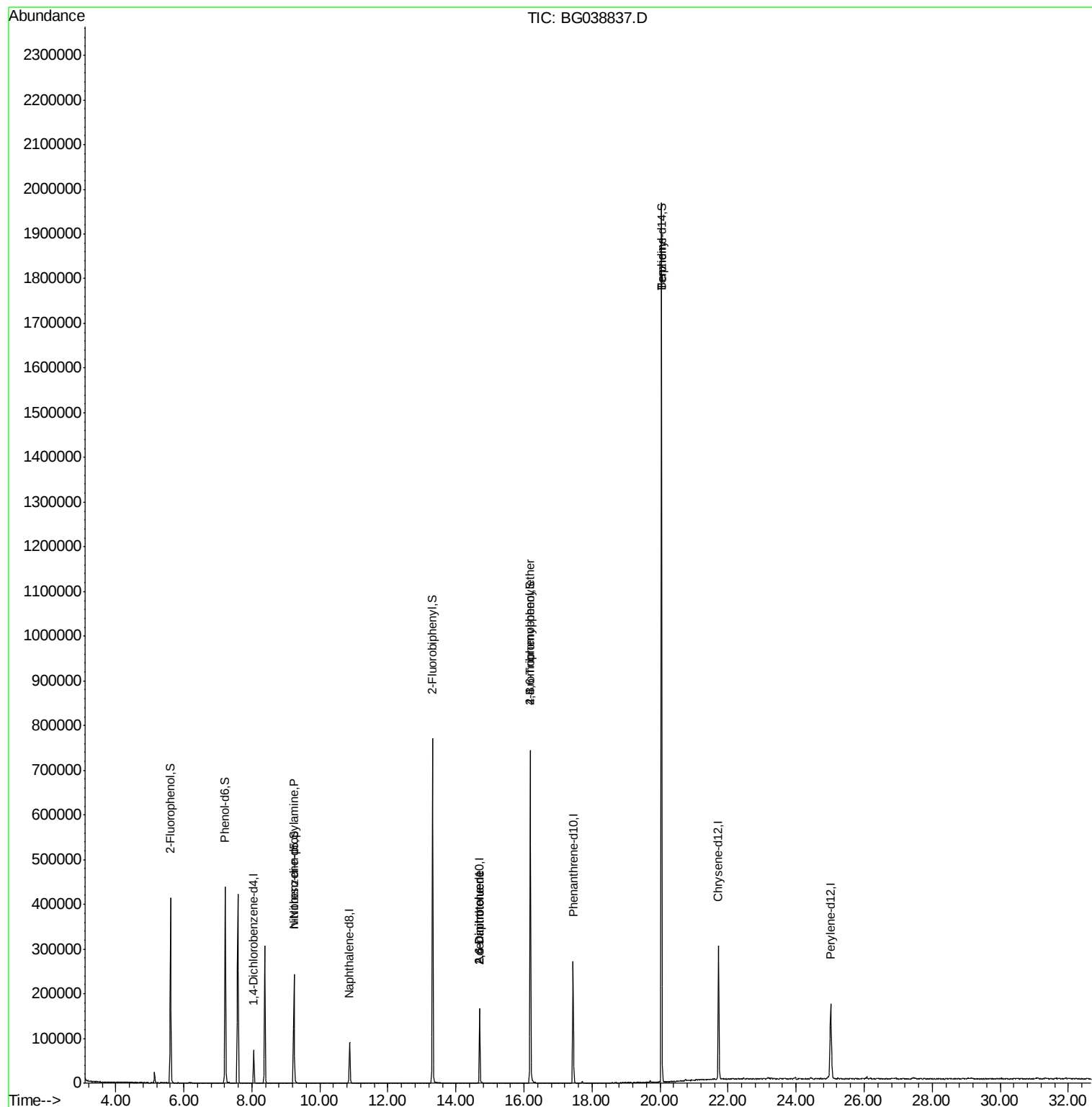
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.06  | 152  | 21120    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.88 | 136  | 85051    | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.70 | 164  | 65463    | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.44 | 188  | 186755   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.72 | 240  | 199637   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 25.01 | 264  | 208654   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.61  | 112  | 184089   | 154.60 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.22  | 99   | 254158   | 155.48 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.24  | 82   | 150224   | 90.23  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.19 | 330  | 168035   | 186.25 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.31 | 172  | 437433   | 91.67  | ng    | 0.00     |
| 79) Terphenyl-d14              | 20.04 | 244  | 967679   | 105.49 | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.23  | 70   | 19554    | 17.031 | ng    | # 68     |
| 51) 2,6-Dinitrotoluene         | 14.70 | 165  | 8201     | 6.769  | ng    | # 19     |
| 57) 2,4-Dinitrotoluene         | 14.70 | 165  | 8201     | 4.806  | ng    | # 21     |
| 67) 4-Bromophenyl-phenylether  | 16.19 | 248  | 11317    | 4.962  | ng    | # 1      |
| 77) Benzidine                  | 20.04 | 184  | 15764    | 2.670  | ng    | 98       |

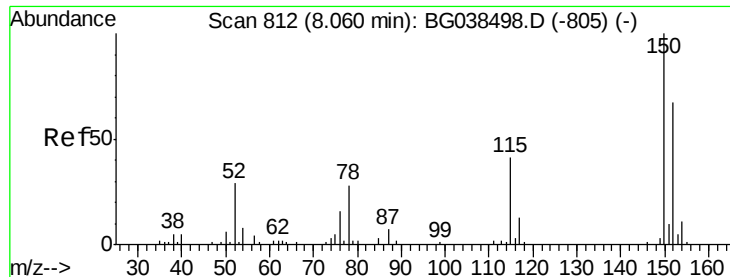
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG122618\  
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Sample : PB115917TB  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_G  
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PB115917TB

Quant Time: Dec 27 00:17:37 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG121218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Dec 12 15:26:27 2018  
Response via : Initial Calibration

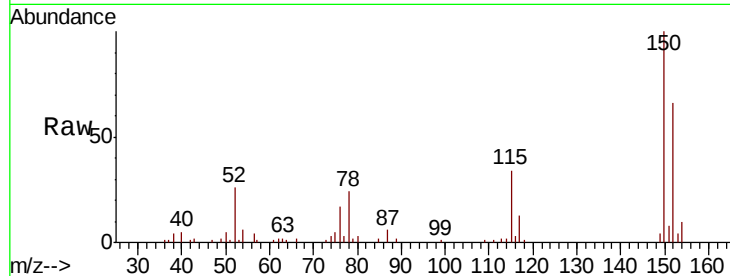




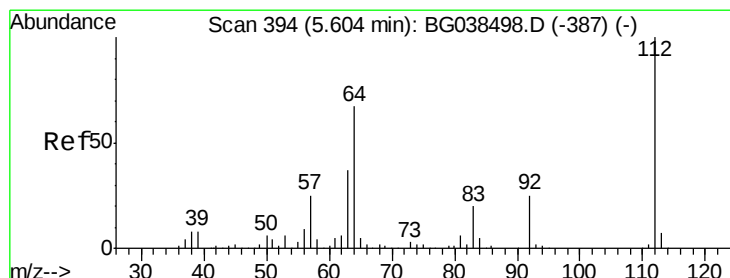
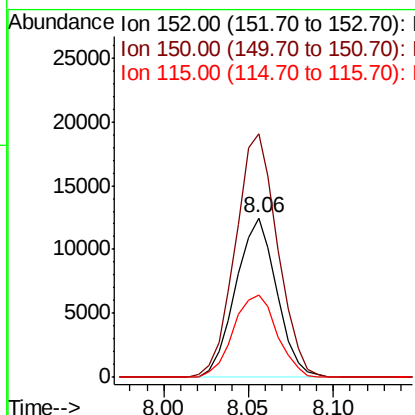
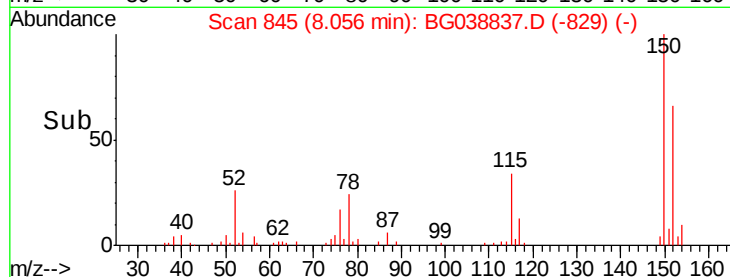
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 8.06 min Scan# 845  
 Delta R.T. -0.00 min  
 Lab File: BG038837.D  
 Acq: 26 Dec 2018 19:29

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB115917TB

Tot Ion:152 Resp: 21120  
 Ion Ratio Lower Upper  
 152 100  
 150 152.5 119.5 179.3  
 115 51.9 49.6 74.4

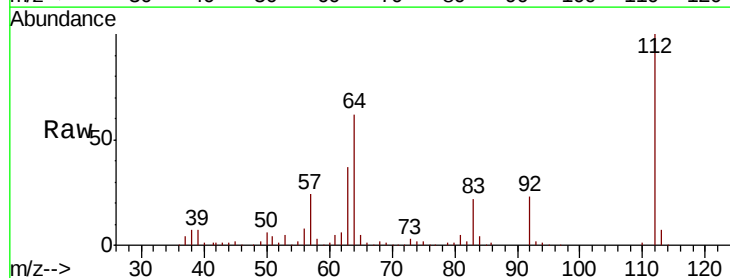


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

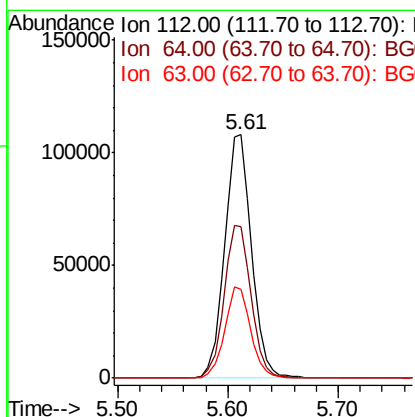
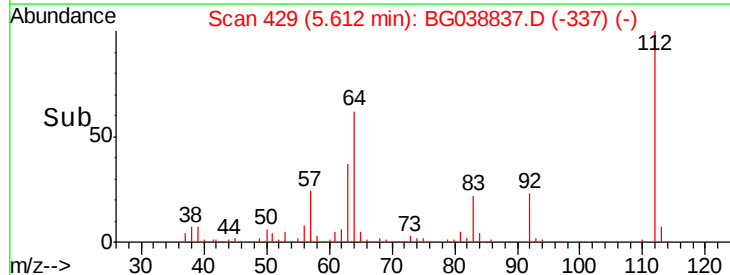


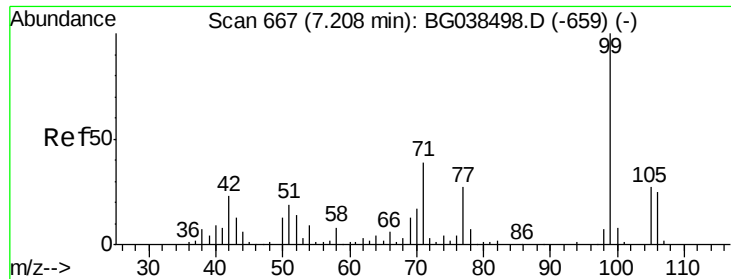
#5  
 2-Fluorophenol  
 Concen: 154.597 ng  
 RT: 5.61 min Scan# 429  
 Delta R.T. 0.01 min  
 Lab File: BG038837.D  
 Acq: 26 Dec 2018 19:29

Tgt Ion:112 Resp: 184089  
 Ion Ratio Lower Upper  
 112 100  
 64 62.1 53.4 80.2  
 63 36.6 29.3 43.9



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: 155.478 ng

RT: 7.22 min Scan# 702

Delta R.T. 0.01 min

Lab File: BG038837.D

Acq: 26 Dec 2018 19:29

Instrument :

BNA\_G

ClientSampled :

PB115917TB

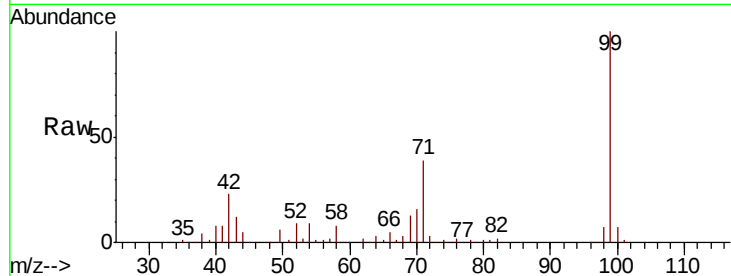
Tot Ion: 99 Resp: 254158

Ion Ratio Lower Upper

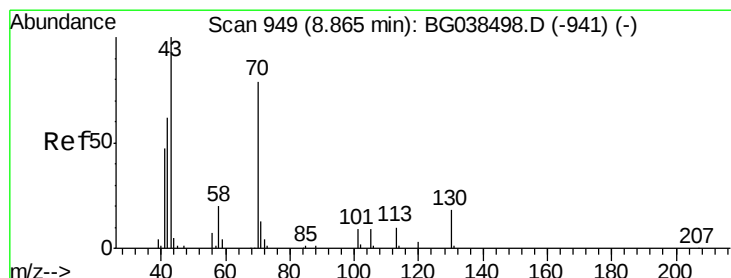
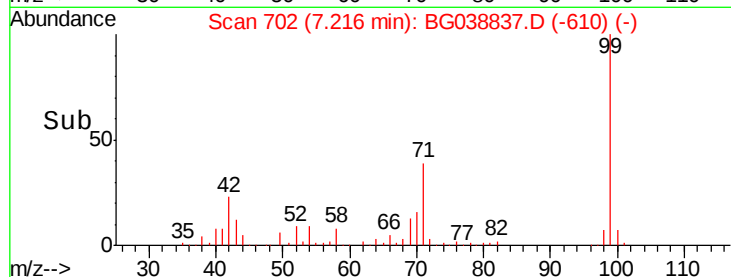
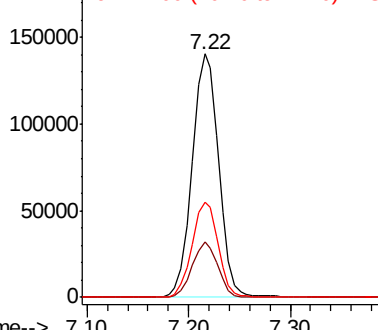
99 100

42 22.6 18.5 27.7

71 39.2 31.1 46.7



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: 17.031 ng

RT: 9.23 min Scan# 1045

Delta R.T. 0.37 min

Lab File: BG038837.D

Acq: 26 Dec 2018 19:29

Tgt Ion: 70 Resp: 19554

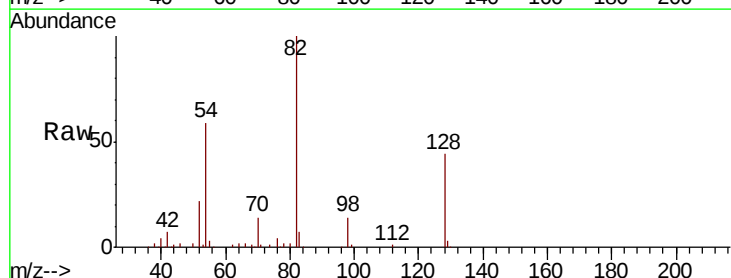
Ion Ratio Lower Upper

70 100

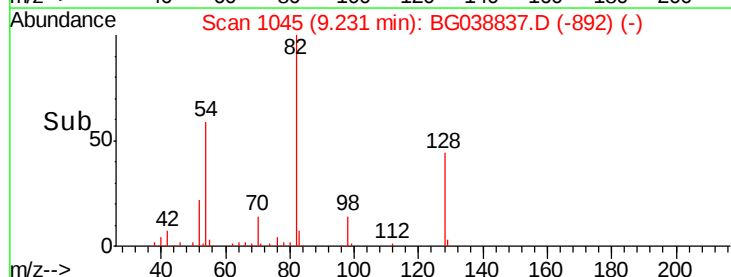
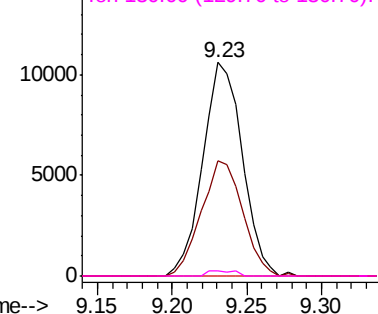
42 53.8 63.6 95.4#

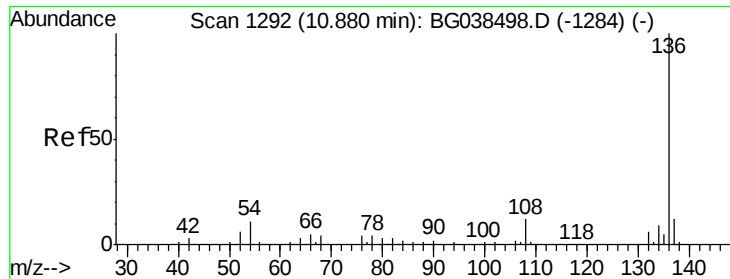
101 0.0 9.2 13.8#

130 2.2 18.5 27.7#



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

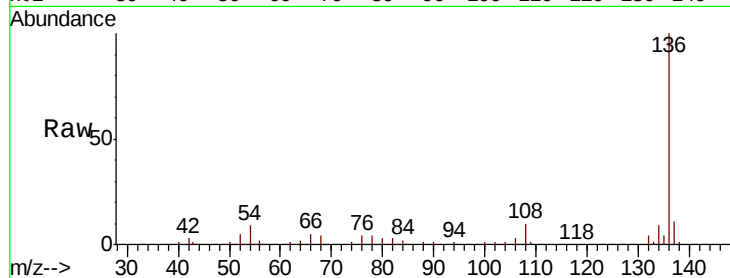




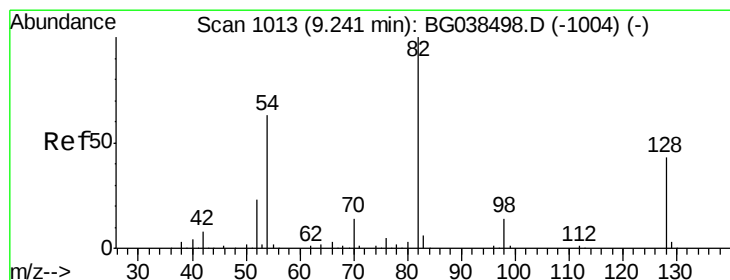
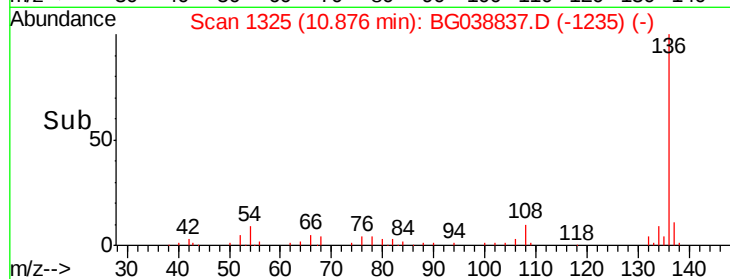
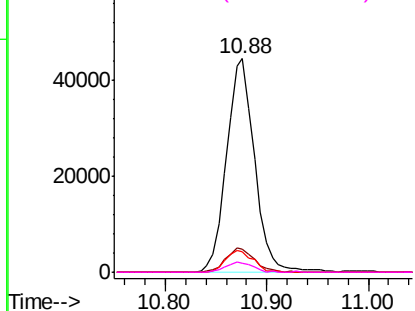
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.88 min Scan# 1325  
Delta R.T. -0.00 min  
Lab File: BG038837.D  
Acq: 26 Dec 2018 19:29

Instrument :  
BNA\_G  
ClientSampleId :  
PB115917TB

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 85051       |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 10.8  | 9.3 13.9    |
| 54          | 9.5   | 8.5 12.7    |
| 68          | 4.3   | 3.5 5.3     |

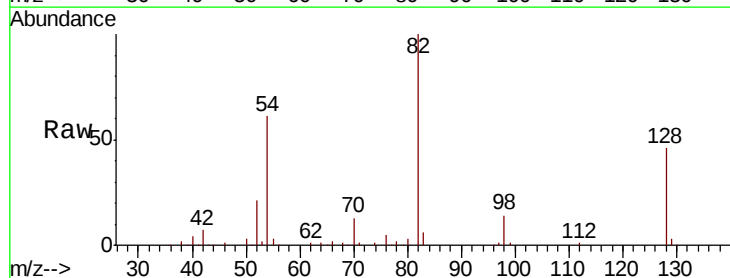


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

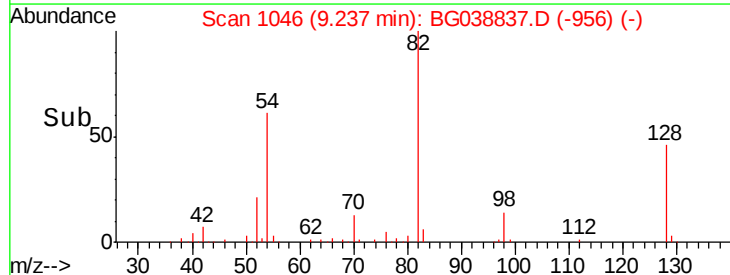
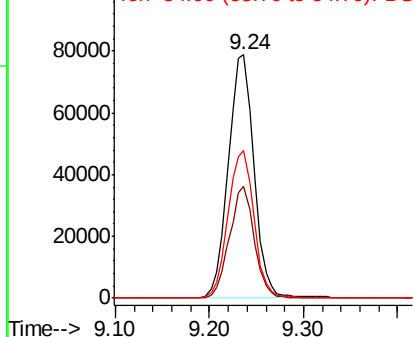


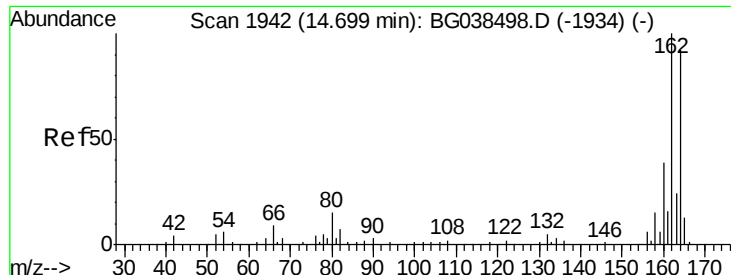
#23  
Nitrobenzene-d5  
Concen: 90.234 ng  
RT: 9.24 min Scan# 1046  
Delta R.T. -0.00 min  
Lab File: BG038837.D  
Acq: 26 Dec 2018 19:29

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 150224      |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 45.9  | 34.6 52.0   |
| 54          | 60.9  | 50.6 76.0   |



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





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.70 min Scan# 1975

Delta R.T. -0.00 min

Lab File: BG038837.D

Acq: 26 Dec 2018 19:29

Instrument :

BNA\_G

ClientSampleId :

PB115917TB

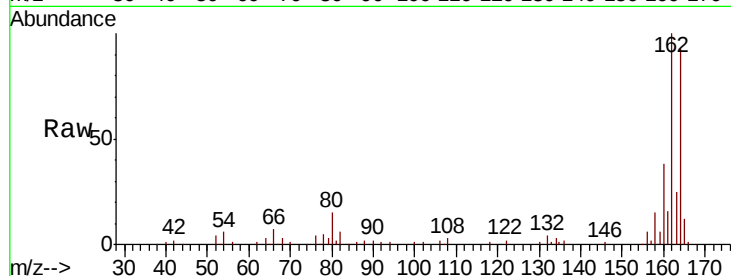
Tot Ion:164 Resp: 65463

Ion Ratio Lower Upper

164 100

162 108.0 86.6 130.0

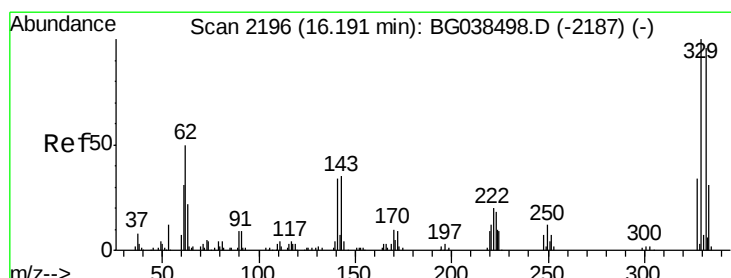
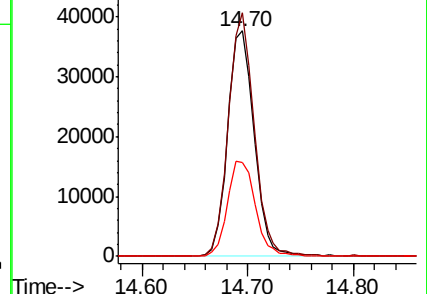
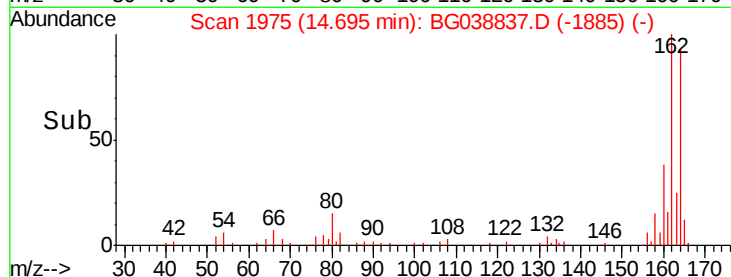
160 41.5 34.2 51.2



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



#42

2,4,6-Tribromophenol

Concen: 186.251 ng

RT: 16.19 min Scan# 2229

Delta R.T. -0.00 min

Lab File: BG038837.D

Acq: 26 Dec 2018 19:29

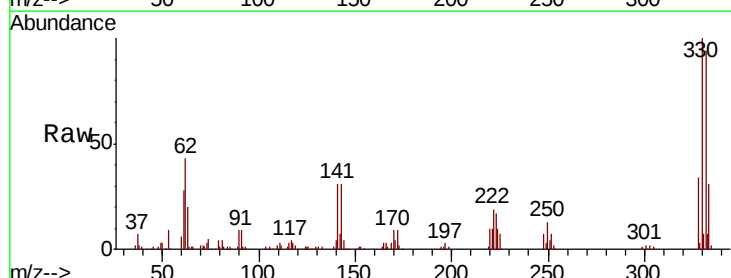
Tgt Ion:330 Resp: 168035

Ion Ratio Lower Upper

330 100

332 94.9 76.9 115.3

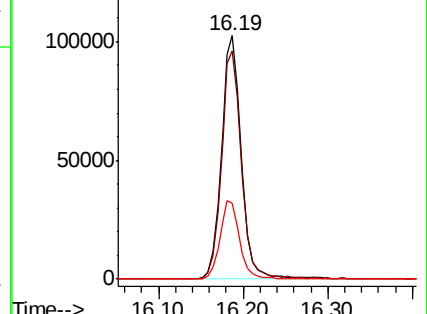
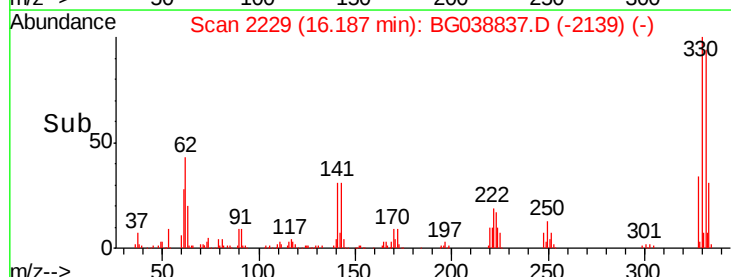
141 32.2 28.8 43.2

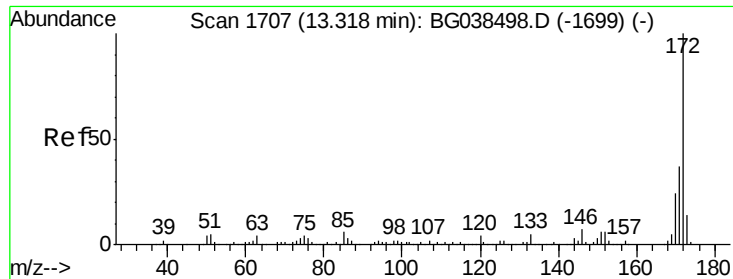


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

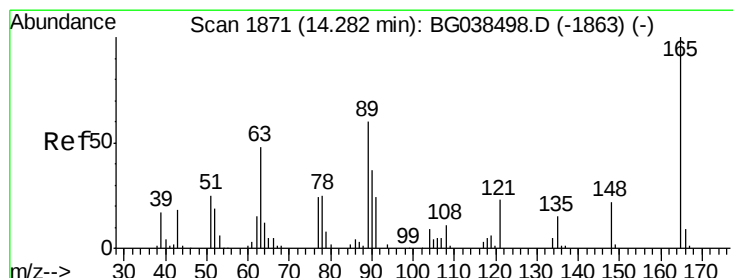
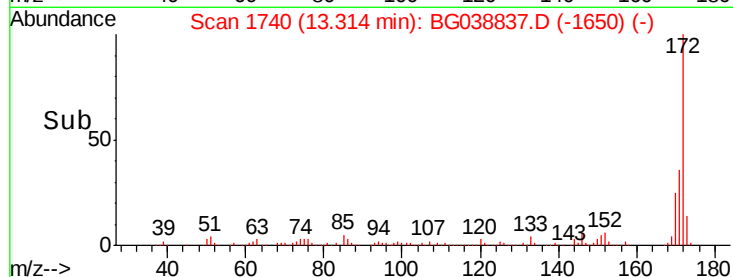
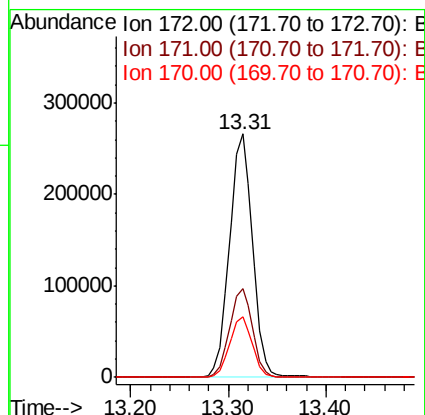
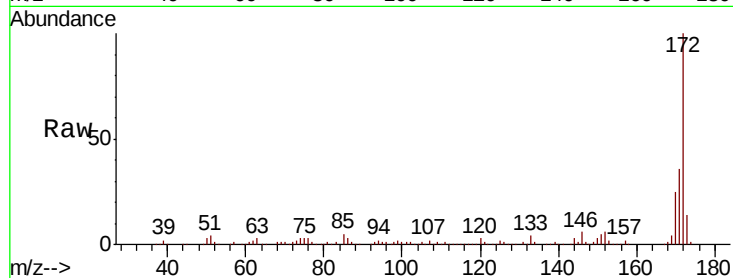




#45  
 2-Fluorobiphenyl  
 Concen: 91.669 ng  
 RT: 13.31 min Scan# 1740  
 Delta R.T. -0.00 min  
 Lab File: BG038837.D  
 Acq: 26 Dec 2018 19:29

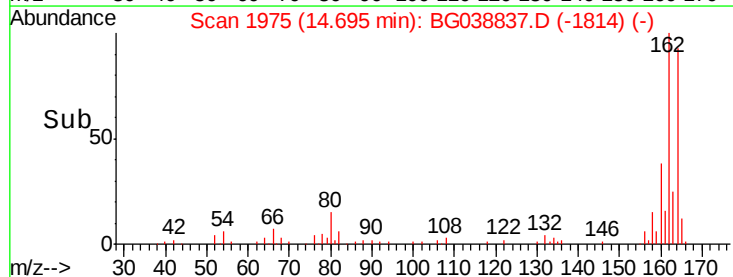
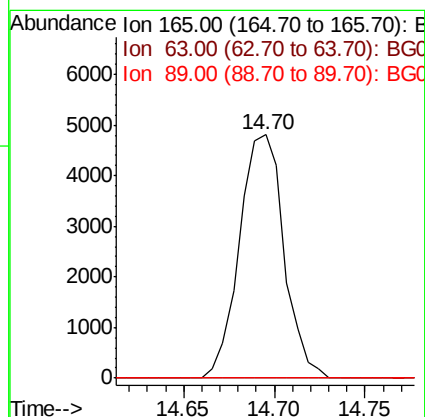
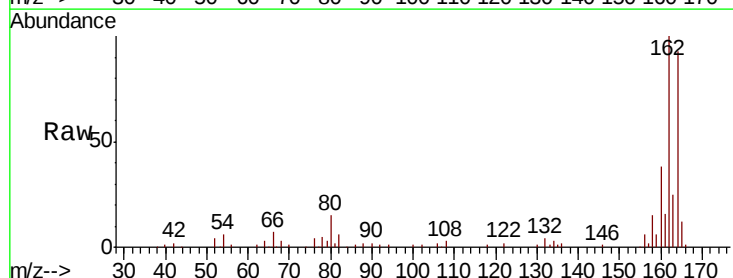
Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB115917TB

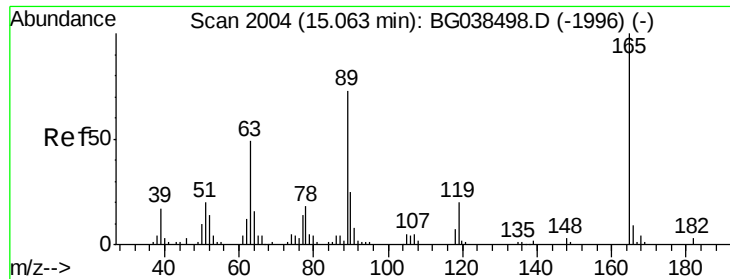
Tot Ion:172 Resp: 437433  
 Ion Ratio Lower Upper  
 172 100  
 171 36.2 29.8 44.6  
 170 24.8 19.5 29.3



#51  
 2,6-Dinitrotoluene  
 Concen: 6.769 ng  
 RT: 14.70 min Scan# 1975  
 Delta R.T. 0.41 min  
 Lab File: BG038837.D  
 Acq: 26 Dec 2018 19:29

Tgt Ion:165 Resp: 8201  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 51.8 77.6#  
 89 0.0 47.9 71.9#

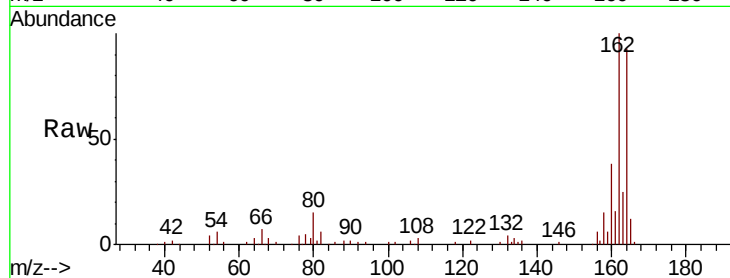




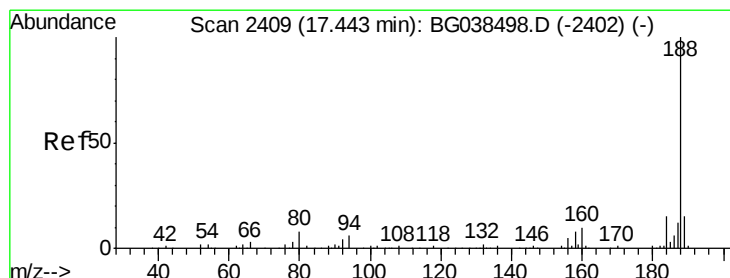
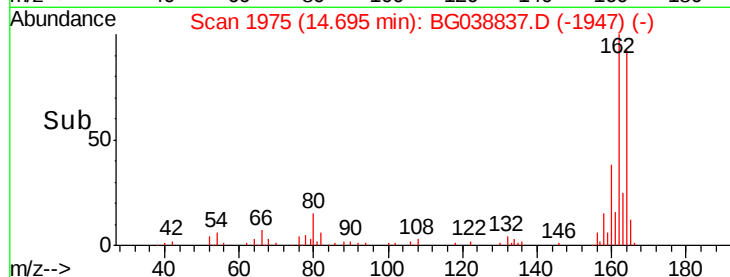
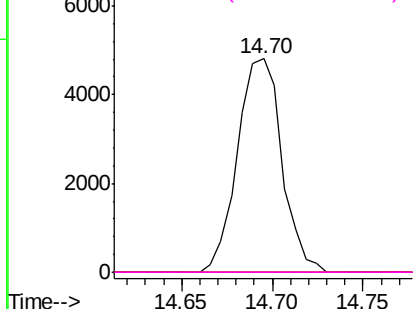
#57  
 2,4-Dinitrotoluene  
 Concen: 4.806 ng  
 RT: 14.70 min Scan# 1975  
 Delta R.T. -0.37 min  
 Lab File: BG038837.D  
 Acq: 26 Dec 2018 19:29

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB115917TB

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 39.0  | 58.4# |
| 89      | 0.0   | 58.0  | 87.0# |
| 182     | 0.0   | 2.3   | 3.5#  |

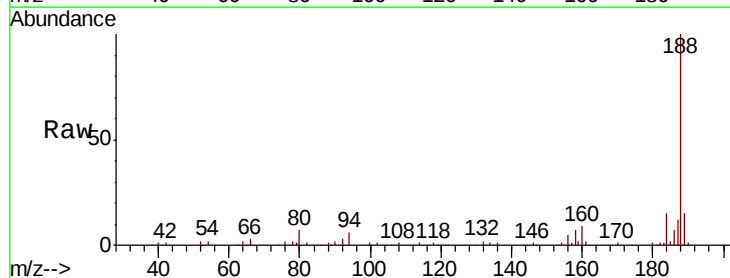


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BGC  
 Ion 89.00 (88.70 to 89.70): BGC  
 Ion 182.00 (181.70 to 182.70): E

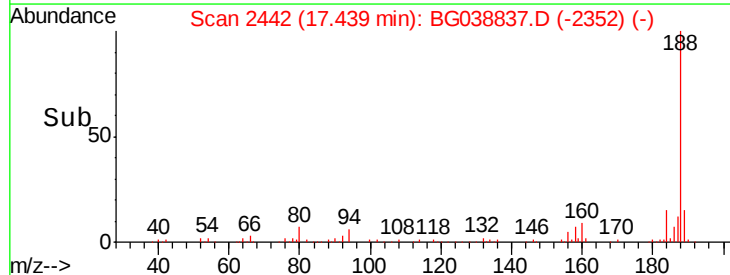
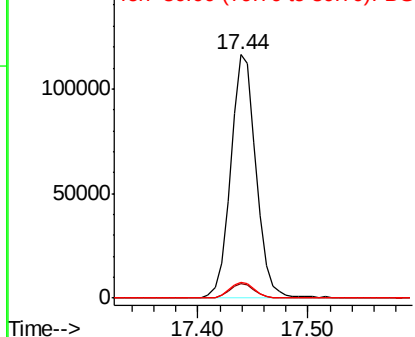


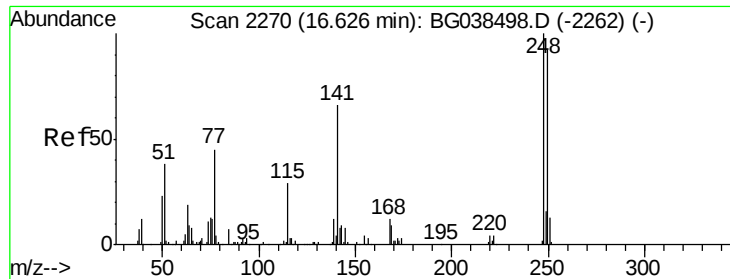
#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.44 min Scan# 2442  
 Delta R.T. -0.00 min  
 Lab File: BG038837.D  
 Acq: 26 Dec 2018 19:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 5.8   | 5.1   | 7.7   |
| 80      | 6.7   | 6.1   | 9.1   |



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

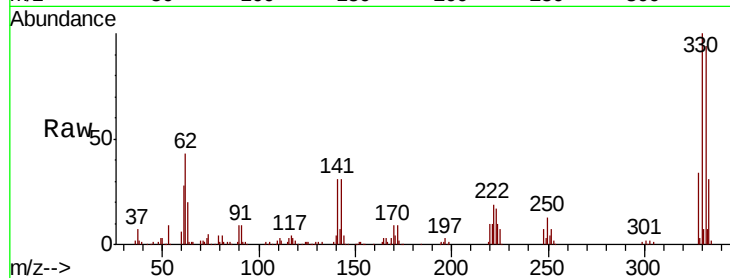




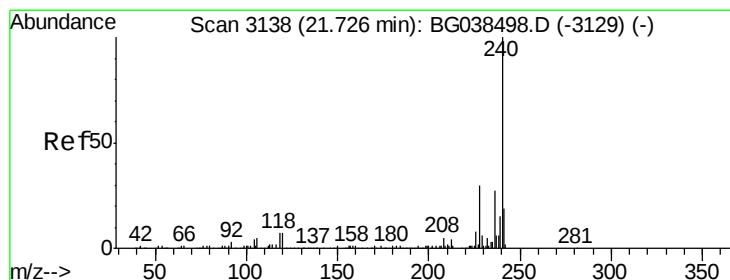
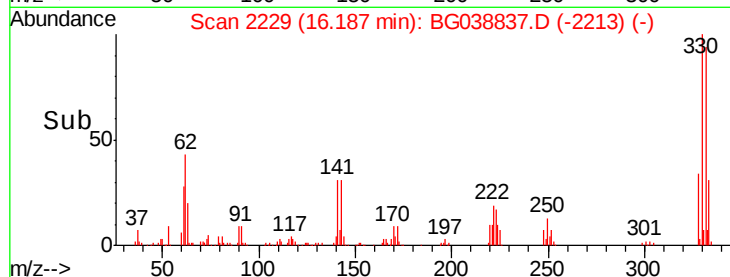
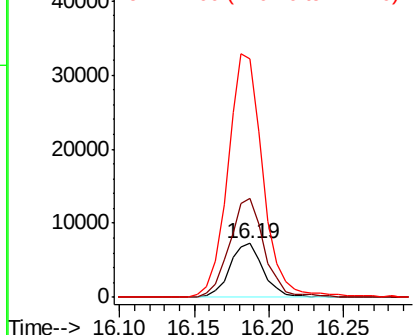
#67  
4-Bromophenyl-phenylether  
Concen: 4.962 ng  
RT: 16.19 min Scan# 2229  
Delta R.T. -0.44 min  
Lab File: BG038837.D  
Acq: 26 Dec 2018 19:29

Instrument :  
BNA\_G  
ClientSampleId :  
PB115917TB

Tot Ion:248 Resp: 11317  
Ion Ratio Lower Upper  
248 100  
250 241.8 73.4 110.2#  
141 443.6 52.9 79.3#

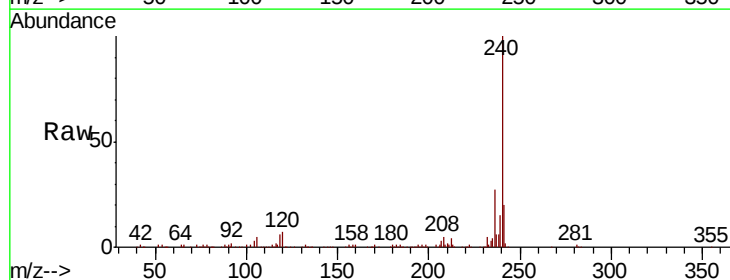


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

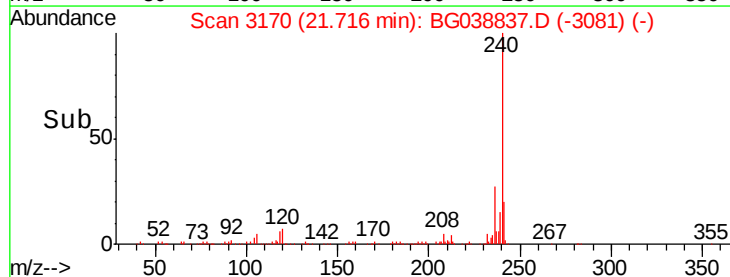
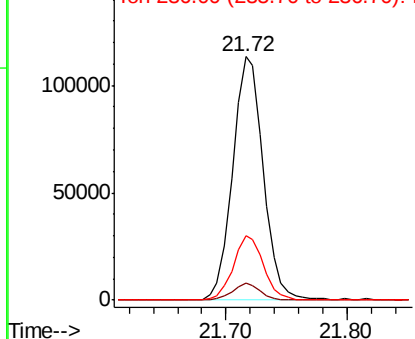


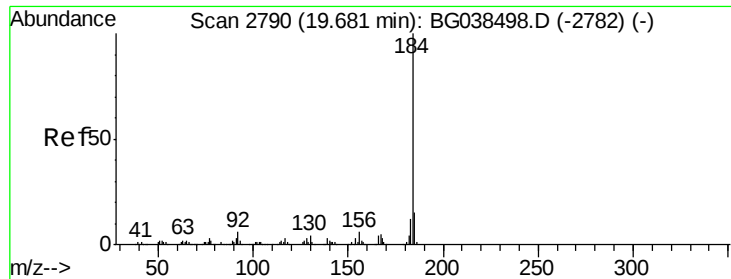
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.72 min Scan# 3170  
Delta R.T. -0.01 min  
Lab File: BG038837.D  
Acq: 26 Dec 2018 19:29

Tgt Ion:240 Resp: 199637  
Ion Ratio Lower Upper  
240 100  
120 6.8 5.3 7.9  
236 26.7 21.4 32.2



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: 2.670 ng

RT: 20.04 min Scan# 2885

Delta R.T. 0.36 min

Lab File: BG038837.D

Acq: 26 Dec 2018 19:29

Instrument :

BNA\_G

ClientSampleId :

PB115917TB

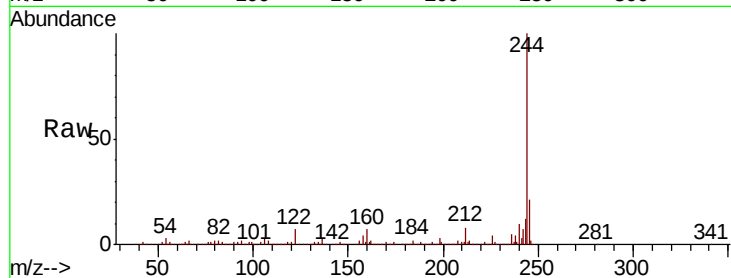
Tot Ion:184 Resp: 15764

Ion Ratio Lower Upper

184 100

185 16.7 12.2 18.2

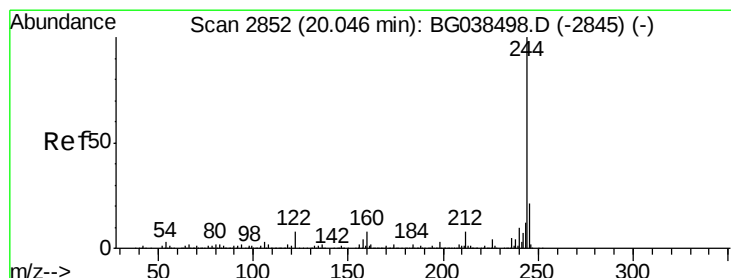
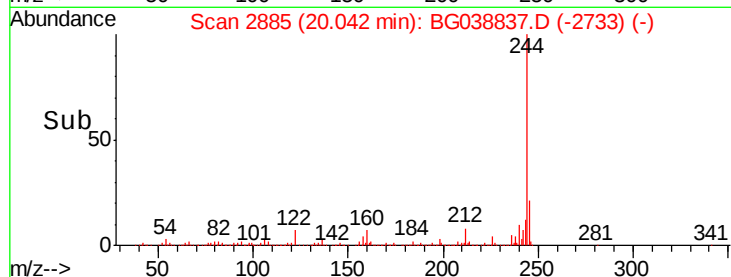
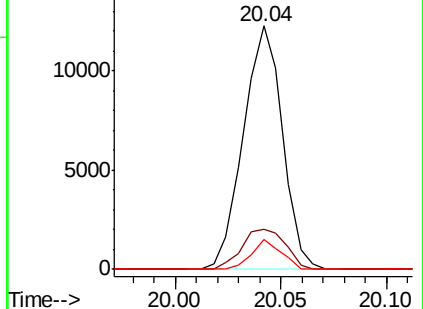
183 12.1 9.6 14.4



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: 105.491 ng

RT: 20.04 min Scan# 2885

Delta R.T. -0.00 min

Lab File: BG038837.D

Acq: 26 Dec 2018 19:29

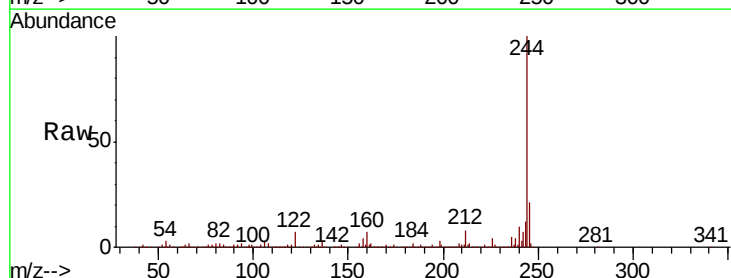
Tgt Ion:244 Resp: 967679

Ion Ratio Lower Upper

244 100

212 7.9 6.2 9.2

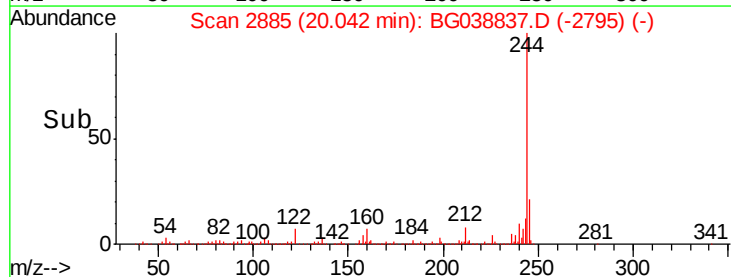
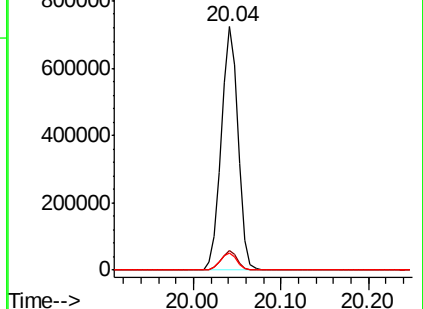
122 7.2 6.3 9.5

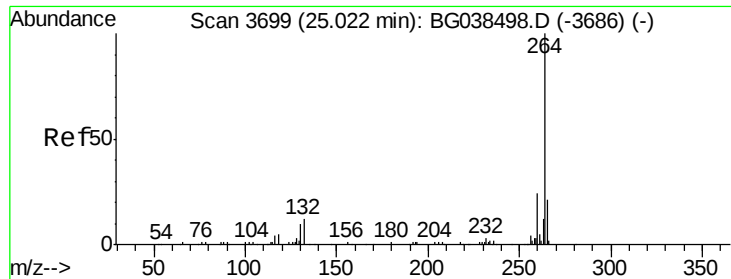


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#87  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 25.01 min Scan# 3731  
 Delta R.T. -0.01 min  
 Lab File: BG038837.D  
 Acq: 26 Dec 2018 19:29

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB115917TB

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.5  | 18.9  | 28.3  |
| 265     | 21.8  | 17.0  | 25.4  |

