

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG111518\  
 Data File : BG038023.D  
 Acq On : 15 Nov 2018 18:19  
 Operator : JU/SJ  
 Sample : J5767-16  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

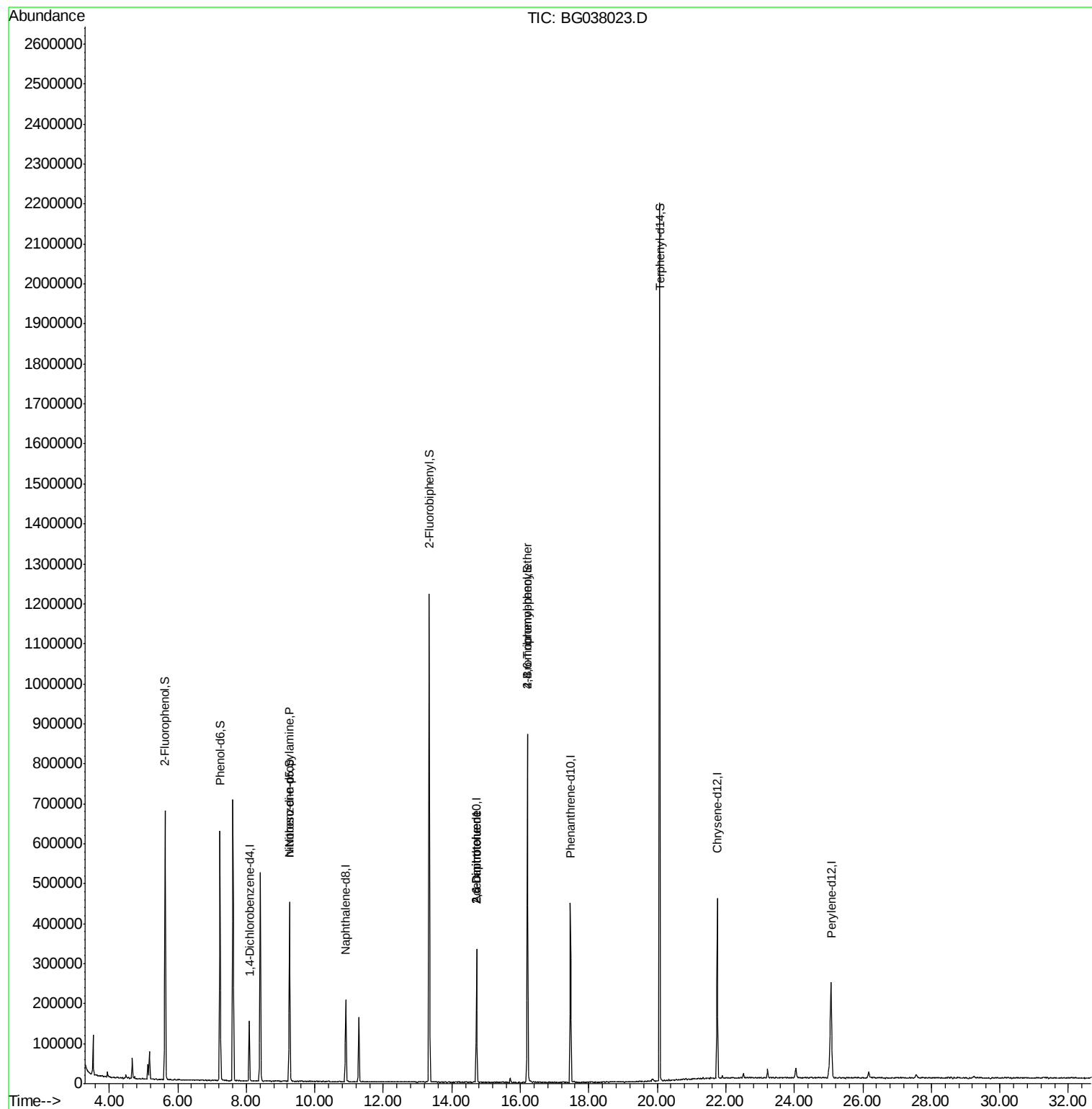
Quant Time: Nov 16 06:28:08 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG111318.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 13 16:39:28 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.09  | 152  | 43327    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.91 | 136  | 186133   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.72 | 164  | 120242   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.46 | 188  | 289468   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.75 | 240  | 276503   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 25.07 | 264  | 273869   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.63  | 112  | 304368   | 121.29 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.23  | 99   | 383276   | 107.00 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.26  | 82   | 281022   | 80.82  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.21 | 330  | 161397   | 117.69 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.34 | 172  | 659444   | 79.90  | ng    | 0.00     |
| 79) Terphenyl-d14              | 20.07 | 244  | 1049789  | 89.34  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.26  | 70   | 34989    | 13.499 | ng    | # 75     |
| 51) 2,6-Dinitrotoluene         | 14.72 | 165  | 16029    | 7.430  | ng    | # 23     |
| 57) 2,4-Dinitrotoluene         | 14.72 | 165  | 16029    | 5.461  | ng    | # 23     |
| 67) 4-Bromophenyl-phenylether  | 16.21 | 248  | 11580    | 3.645  | ng    | # 1      |

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

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG111318.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Nov 13 16:39:28 2018  
Response via : Initial Calibration

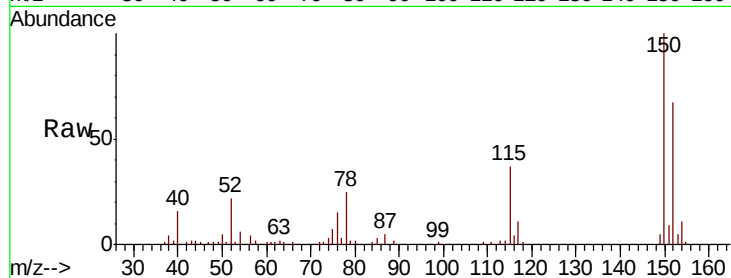




#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.09 min Scan# 817  
Delta R.T. -0.00 min  
Lab File: BG038023.D  
Acq: 15 Nov 2018 18:19

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 150.2 | 126.0 | 189.0 |
| 115     | 56.3  | 45.5  | 68.3  |

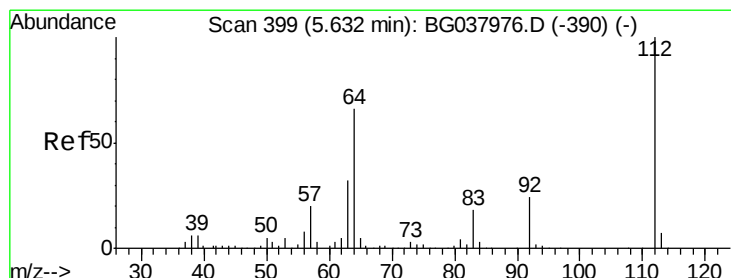
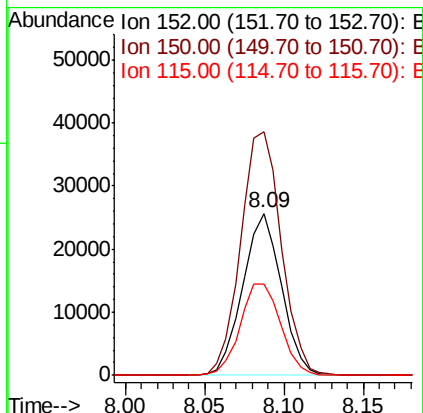
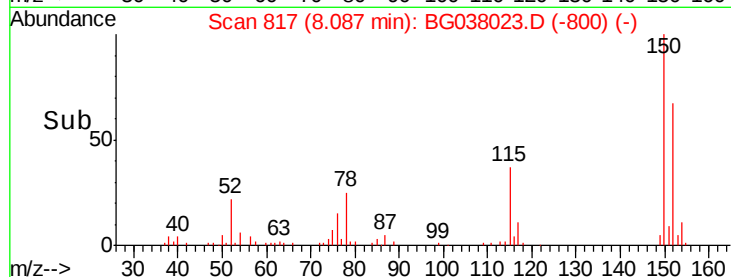


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

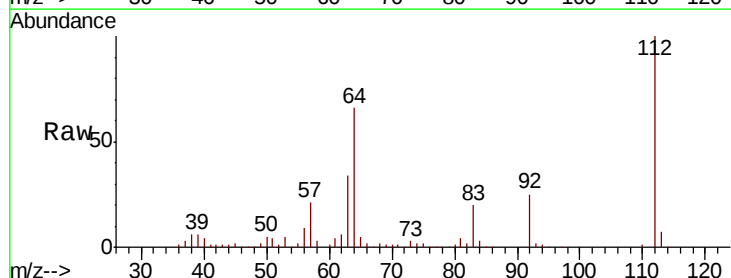
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 121.290 ng  
RT: 5.63 min Scan# 399  
Delta R.T. -0.00 min  
Lab File: BG038023.D  
Acq: 15 Nov 2018 18:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 65.7  | 53.1  | 79.7  |
| 63      | 34.1  | 27.3  | 40.9  |

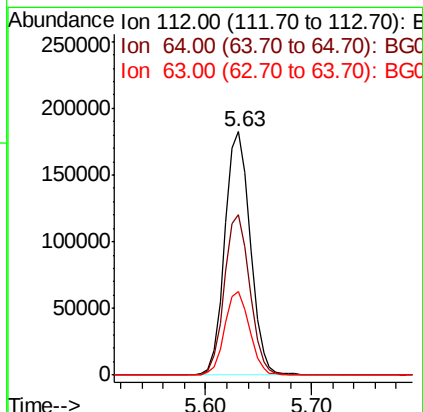
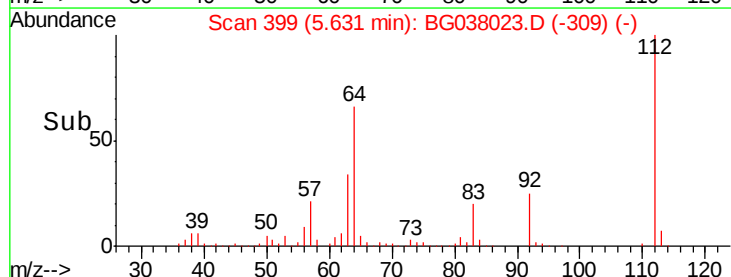


Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BG0

Ion 63.00 (62.70 to 63.70): BG0





#7

Phenol-d6

Concen: 106.999 ng

RT: 7.23 min Scan# 671

Delta R.T. -0.00 min

Lab File: BG038023.D

Acq: 15 Nov 2018 18:19

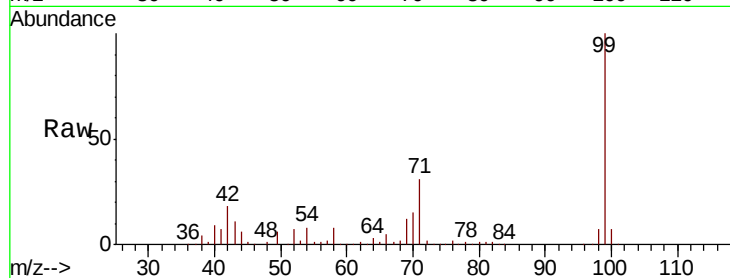
Tot Ion: 99 Resp: 383276

Ion Ratio Lower Upper

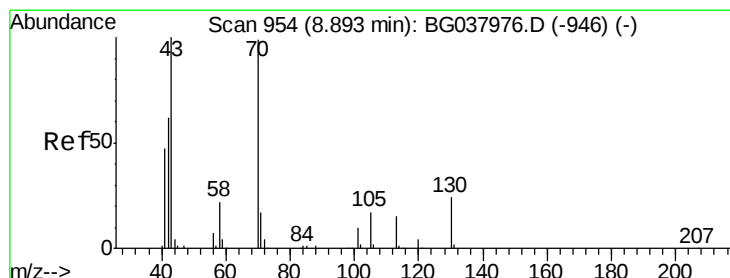
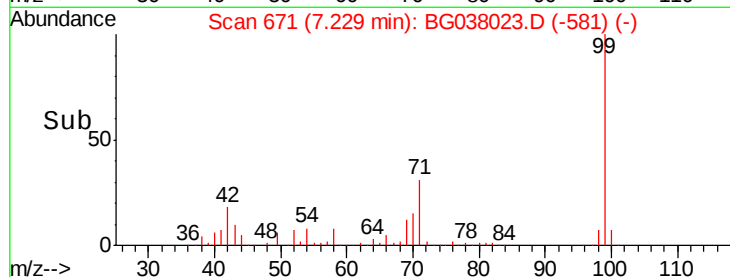
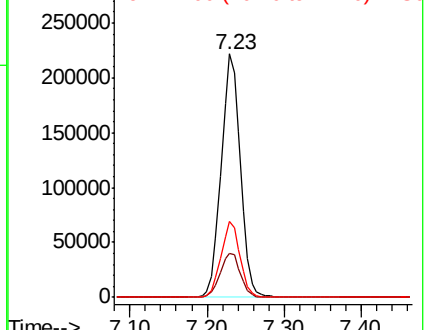
99 100

42 18.0 15.0 22.4

71 31.4 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



#19

n-Nitroso-di-n-propylamine

Concen: 13.499 ng

RT: 9.26 min Scan# 1017

Delta R.T. 0.37 min

Lab File: BG038023.D

Acq: 15 Nov 2018 18:19

Tgt Ion: 70 Resp: 34989

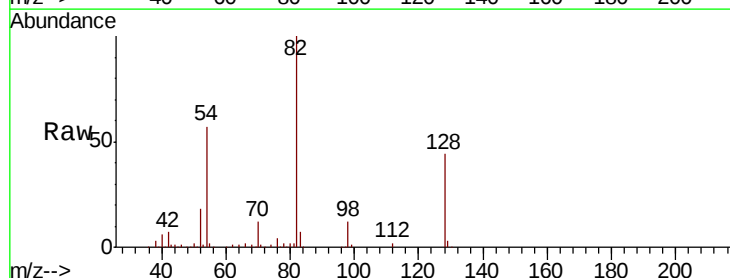
Ion Ratio Lower Upper

70 100

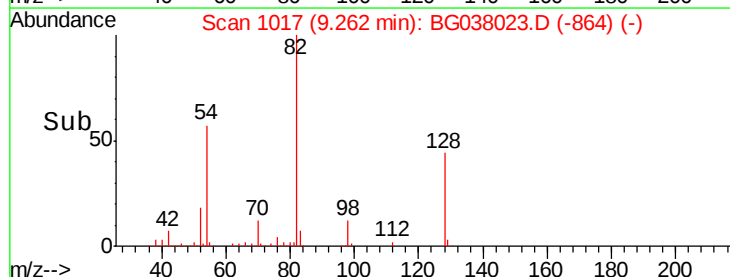
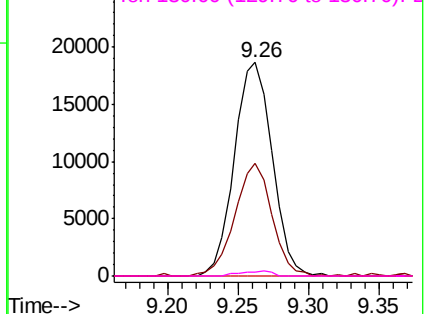
42 52.9 53.9 80.9#

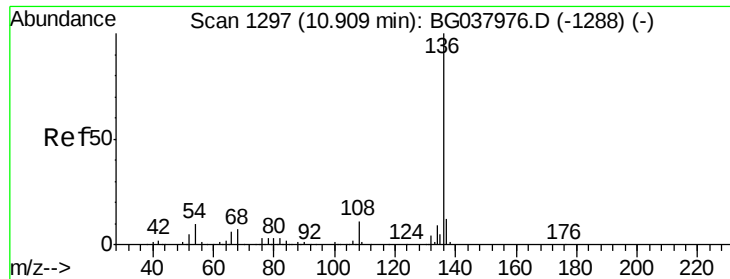
101 0.0 8.2 12.2#

130 1.9 18.2 27.4#



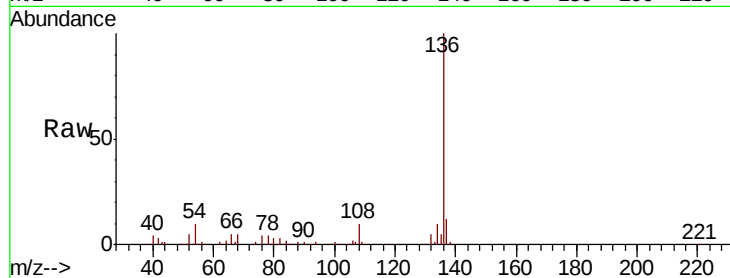
Abundance Ion 70.00 (69.70 to 70.70): BGC  
Ion 42.00 (41.70 to 42.70): BGC  
Ion 101.00 (100.70 to 101.70): BGC  
Ion 130.00 (129.70 to 130.70): BGC



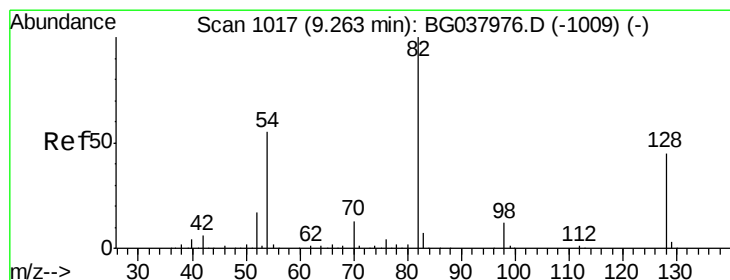
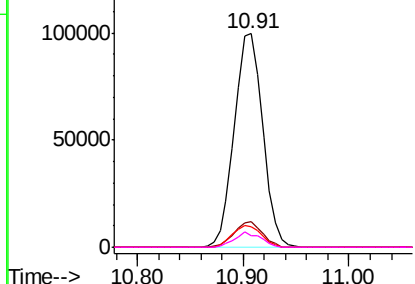
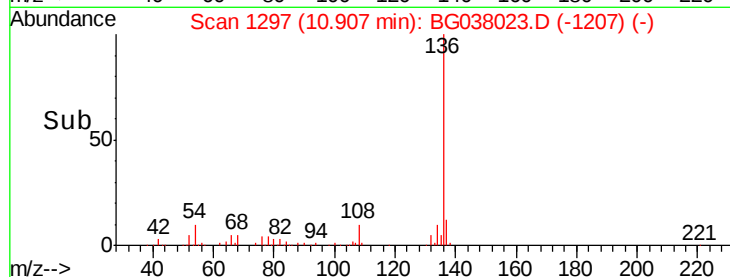


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.91 min Scan# 1297  
Delta R.T. -0.00 min  
Lab File: BG038023.D  
Acq: 15 Nov 2018 18:19

|             |       |        |
|-------------|-------|--------|
| Tot Ion:136 | Resp: | 186133 |
| Ion Ratio   | Lower | Upper  |
| 136 100     |       |        |
| 137 12.3    | 9.6   | 14.4   |
| 54 9.8      | 7.9   | 11.9   |
| 68 5.3      | 4.8   | 7.2    |

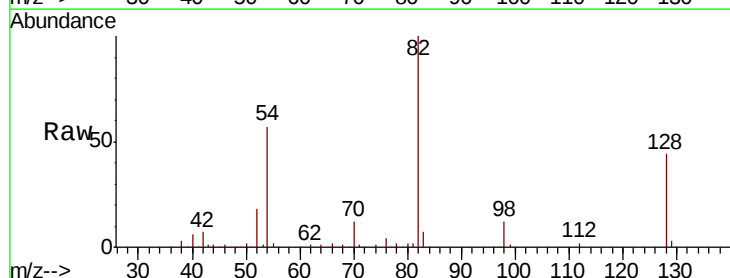


Abundance Ion 136.00 (135.70 to 136.70): BGC  
Ion 137.00 (136.70 to 137.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

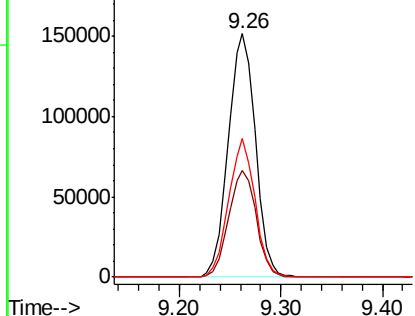
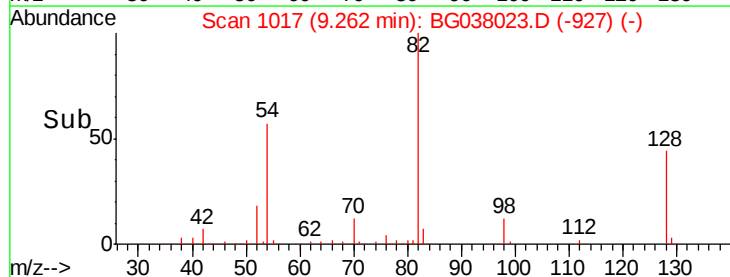


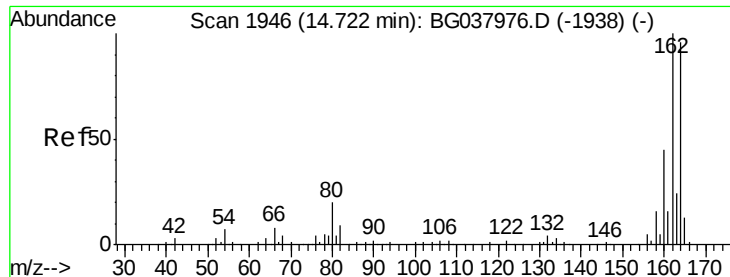
#23  
Nitrobenzene-d5  
Concen: 80.820 ng  
RT: 9.26 min Scan# 1017  
Delta R.T. -0.00 min  
Lab File: BG038023.D  
Acq: 15 Nov 2018 18:19

|             |              |
|-------------|--------------|
| Tgt Ion: 82 | Resp: 281022 |
| Ion Ratio   | Lower Upper  |
| 82 100      |              |
| 128 43.6    | 34.6 51.8    |
| 54 57.0     | 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: 14.72 min Scan# 1946

Delta R.T. -0.00 min

Lab File: BG038023.D

Acq: 15 Nov 2018 18:19

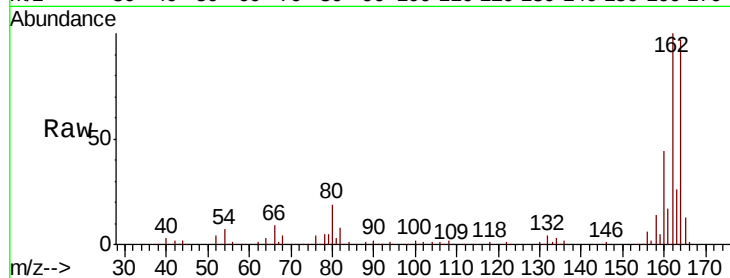
Tot Ion:164 Resp: 120242

Ion Ratio Lower Upper

164 100

162 103.5 81.3 121.9

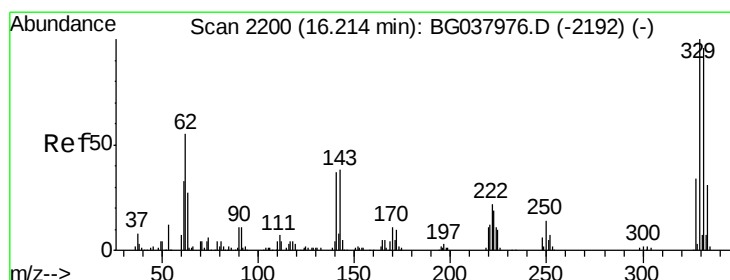
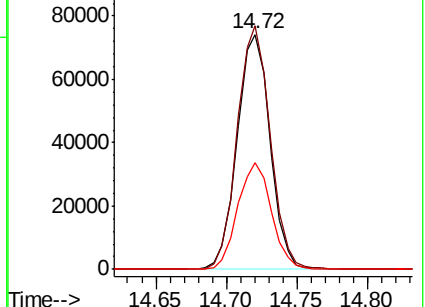
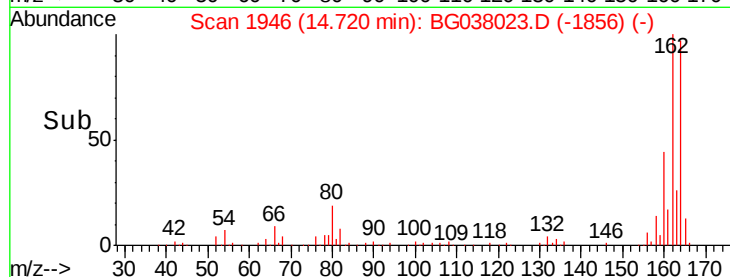
160 45.1 36.3 54.5



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: 117.694 ng

RT: 16.21 min Scan# 2199

Delta R.T. -0.01 min

Lab File: BG038023.D

Acq: 15 Nov 2018 18:19

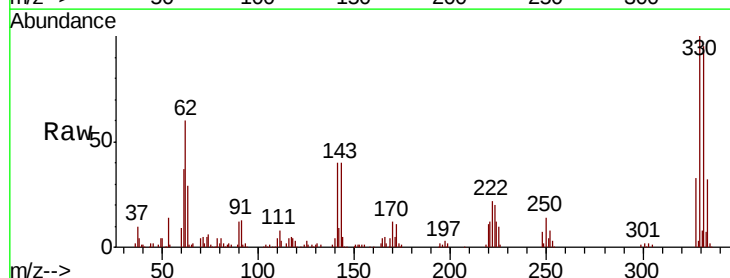
Tgt Ion:330 Resp: 161397

Ion Ratio Lower Upper

330 100

332 94.5 78.4 117.6

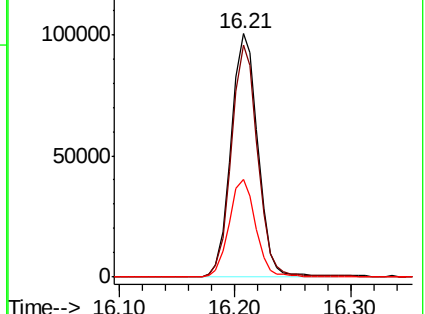
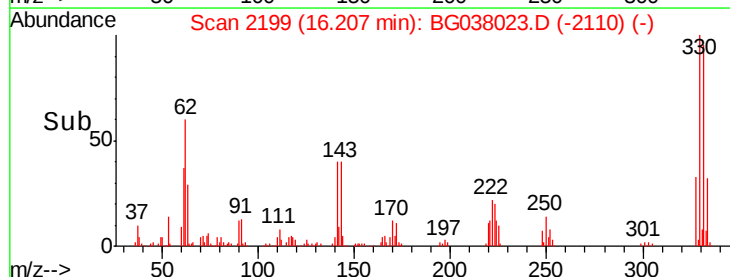
141 40.0 32.2 48.2

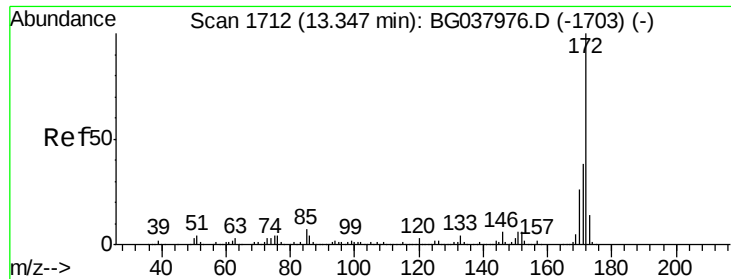


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

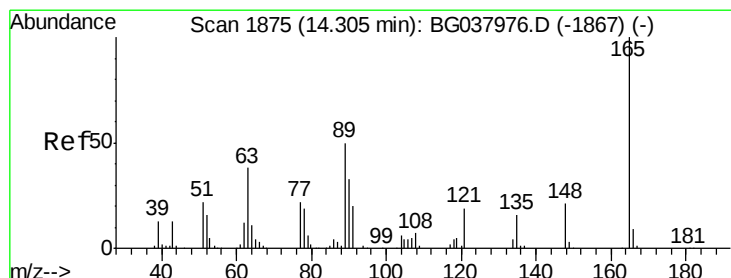
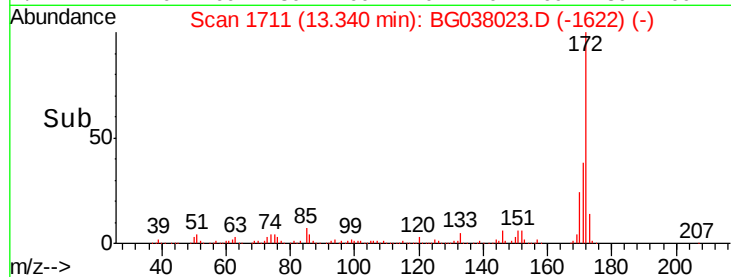
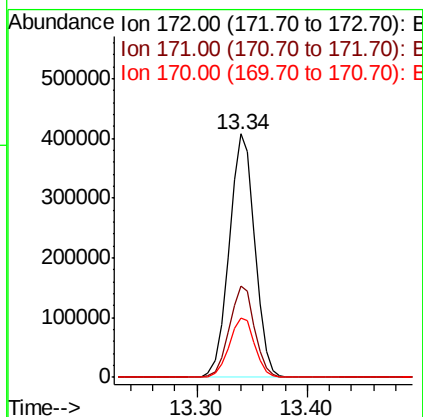
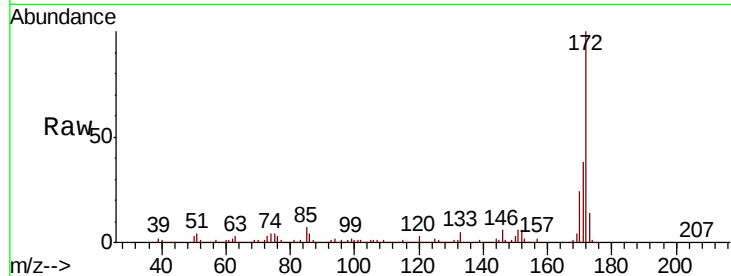
Ion 141.00 (140.70 to 141.70): E





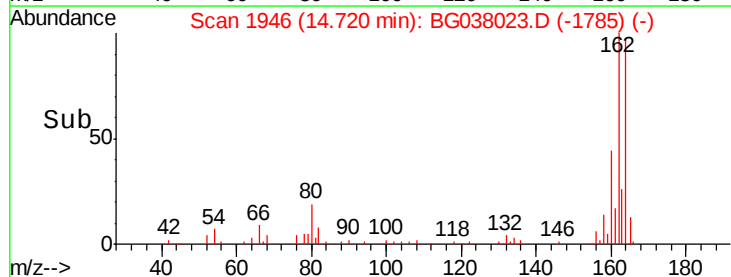
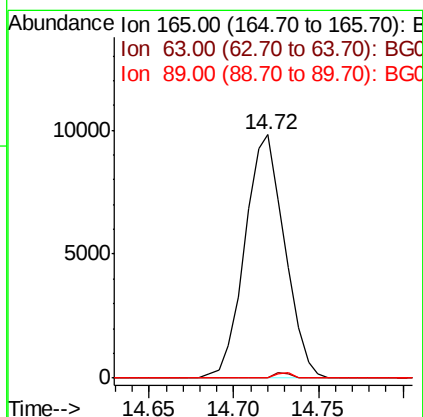
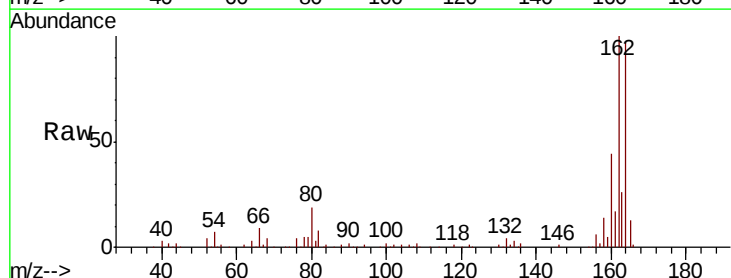
#45  
 2-Fluorobiphenyl  
 Concen: 79.898 ng  
 RT: 13.34 min Scan# 1711  
 Delta R.T. -0.01 min  
 Lab File: BG038023.D  
 Acq: 15 Nov 2018 18:19

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.6  | 31.0  | 46.4  |
| 170     | 24.4  | 20.2  | 30.2  |



#51  
 2,6-Dinitrotoluene  
 Concen: 7.430 ng  
 RT: 14.72 min Scan# 1946  
 Delta R.T. 0.42 min  
 Lab File: BG038023.D  
 Acq: 15 Nov 2018 18:19

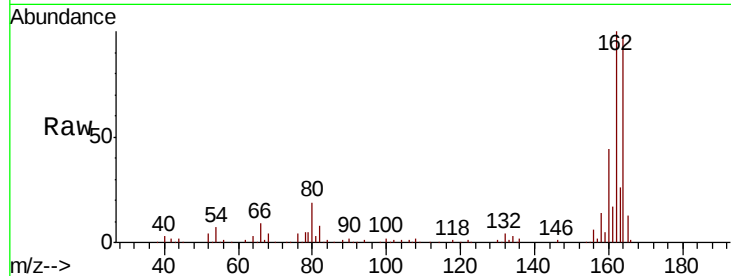
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 43.4  | 65.2# |
| 89      | 0.0   | 45.8  | 68.6# |





#57  
 2,4-Dinitrotoluene  
 Concen: 5.461 ng  
 RT: 14.72 min Scan# 1946  
 Delta R.T. -0.37 min  
 Lab File: BG038023.D  
 Acq: 15 Nov 2018 18:19

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 165   | Resp: | 16029 |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 0.0   | 33.4  | 50.0# |
| 89       | 0.0   | 57.2  | 85.8# |
| 182      | 0.0   | 2.6   | 4.0#  |

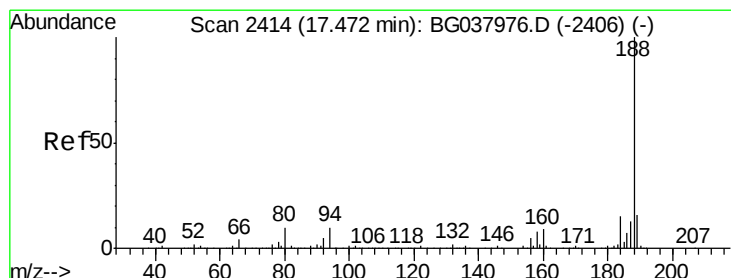
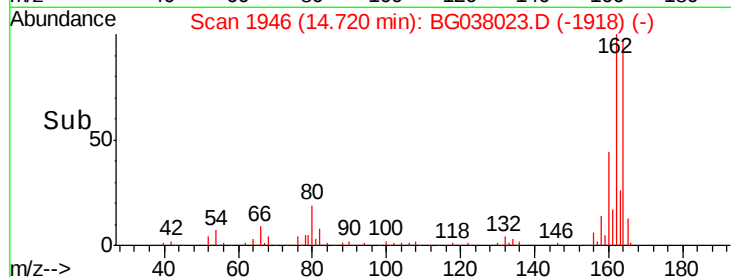
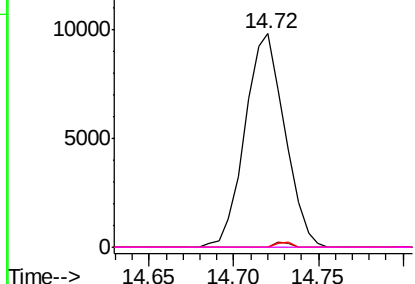


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

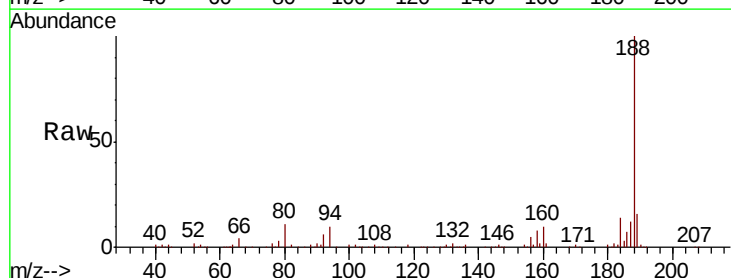
Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.46 min Scan# 2413  
 Delta R.T. -0.01 min  
 Lab File: BG038023.D  
 Acq: 15 Nov 2018 18:19

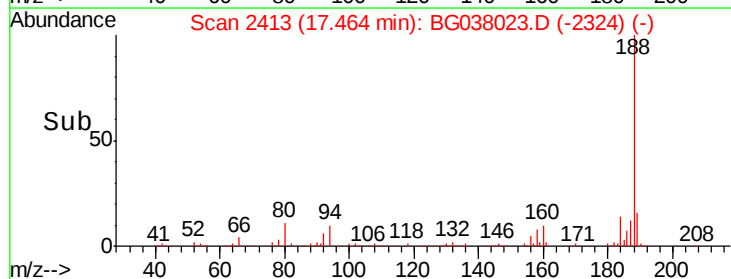
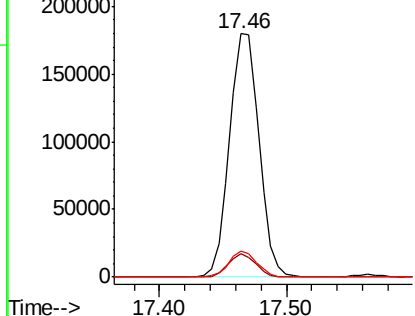
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 188   | Resp: | 289468 |
| Ion      | Ratio | Lower | Upper  |
| 188      | 100   |       |        |
| 94       | 9.8   | 7.2   | 10.8   |
| 80       | 10.7  | 7.7   | 11.5   |

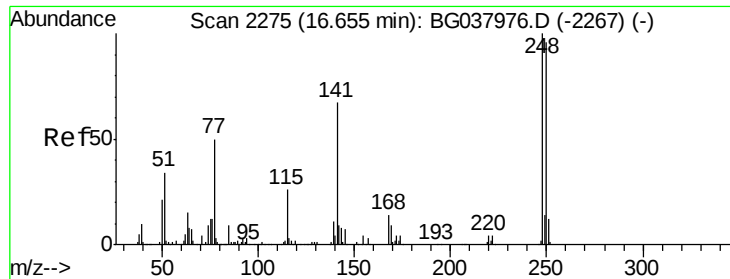


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

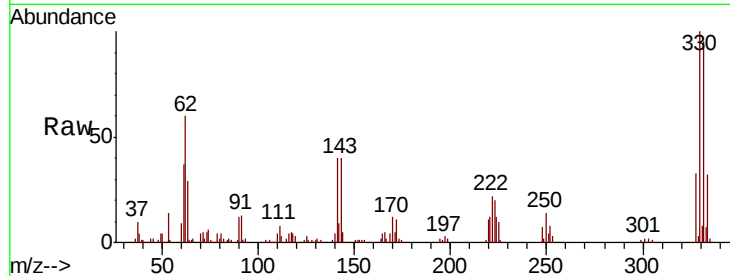
Ion 80.00 (79.70 to 80.70): BGC



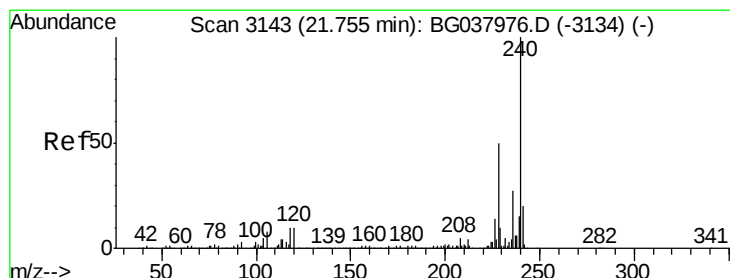
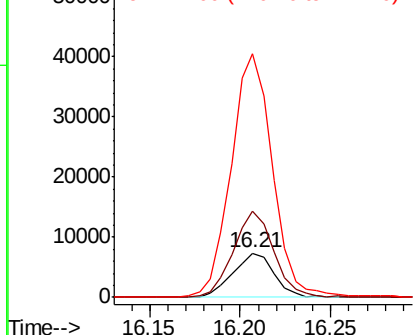
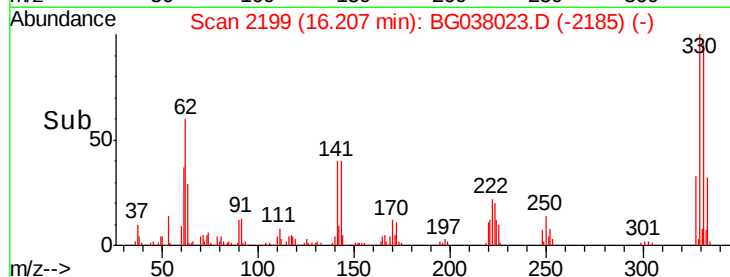


#67  
 4-Bromophenyl-phenylether  
 Concen: 3.645 ng  
 RT: 16.21 min Scan# 2199  
 Delta R.T. -0.45 min  
 Lab File: BG038023.D  
 Acq: 15 Nov 2018 18:19

Tot Ion:248 Resp: 11580  
 Ion Ratio Lower Upper  
 248 100  
 250 152.1 77.0 115.6#  
 141 431.6 55.5 83.3#

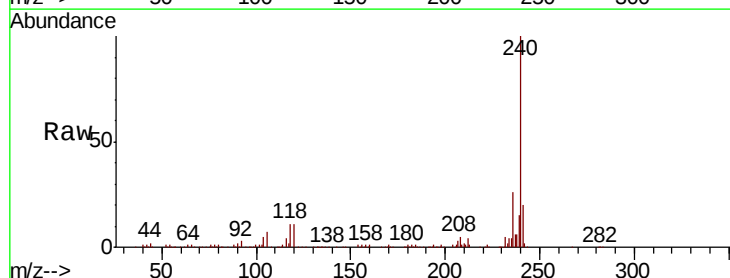


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

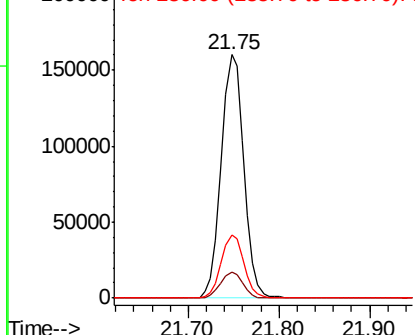
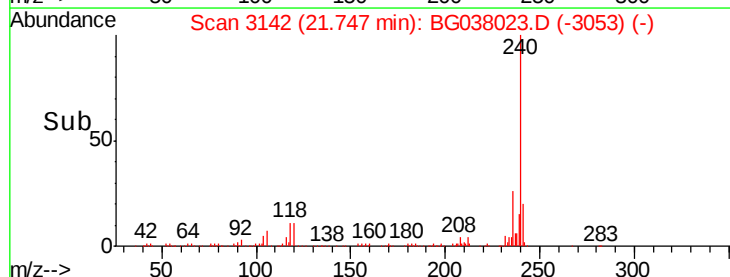


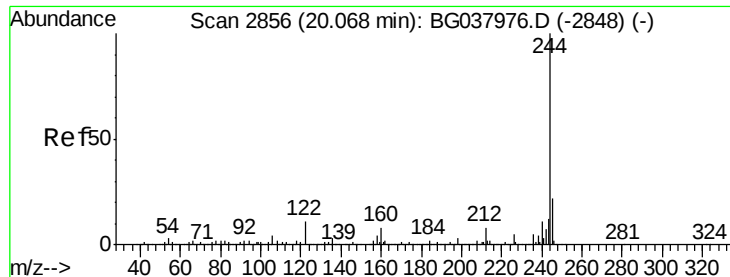
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.75 min Scan# 3142  
 Delta R.T. -0.01 min  
 Lab File: BG038023.D  
 Acq: 15 Nov 2018 18:19

Tgt Ion:240 Resp: 276503  
 Ion Ratio Lower Upper  
 240 100  
 120 10.9 8.1 12.1  
 236 25.9 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





#79

Terphenyl-d14

Concen: 89.336 ng

RT: 20.07 min Scan# 2856

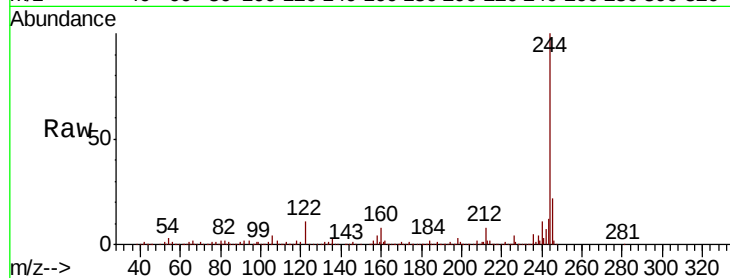
Delta R.T. -0.00 min

Lab File: BG038023.D

Acq: 15 Nov 2018 18:19

Tot Ion:244 Resp: 1049789

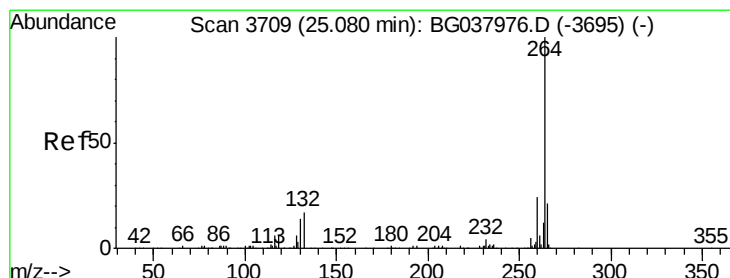
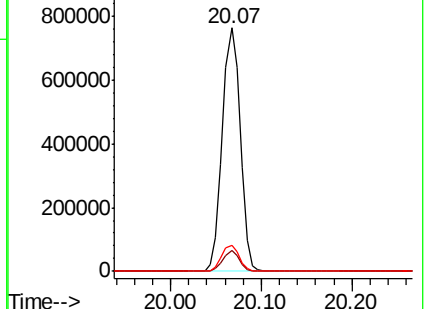
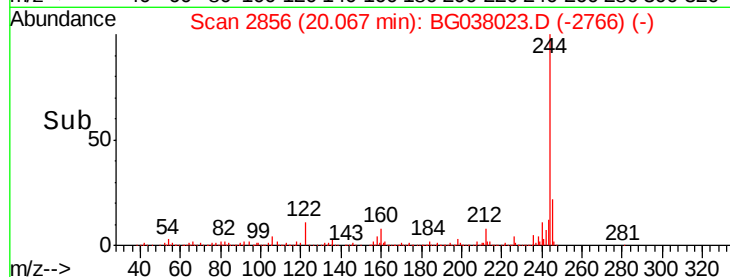
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 8.4   | 6.5   | 9.7   |
| 122 | 10.8  | 9.0   | 13.4  |



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: 25.07 min Scan# 3707

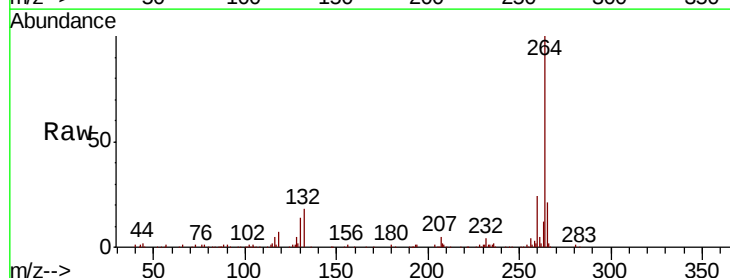
Delta R.T. -0.01 min

Lab File: BG038023.D

Acq: 15 Nov 2018 18:19

Tgt Ion:264 Resp: 273869

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.0  | 18.2  | 27.4  |
| 265 | 21.3  | 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

