

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG121218\  
 Data File : BG038523.D  
 Acq On : 13 Dec 2018 8:52  
 Operator : JU/SJ  
 Sample : PB115618BL  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Dec 13 10:20:03 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

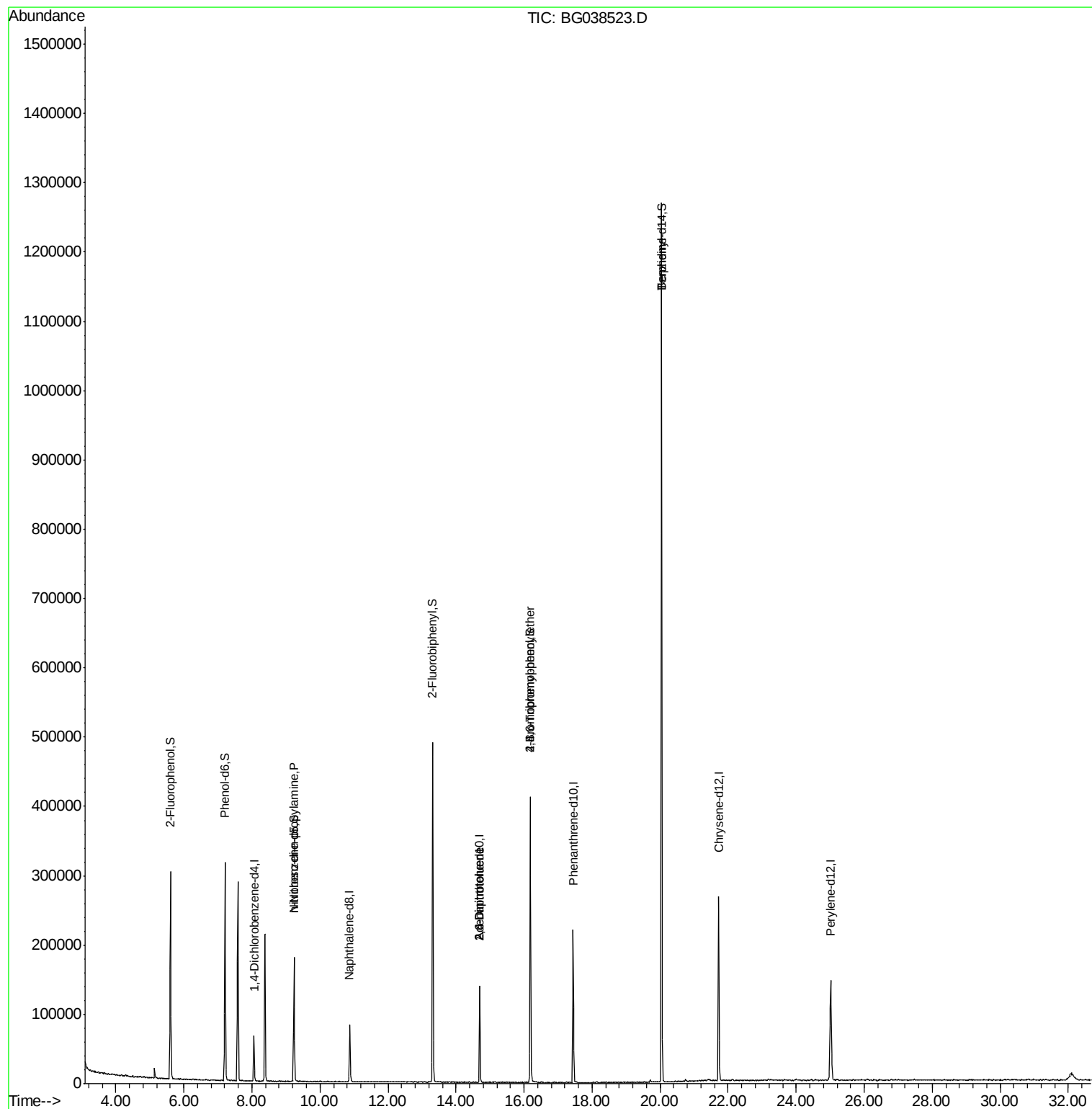
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.06  | 152  | 18802    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.87 | 136  | 75460    | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.69 | 164  | 52348    | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.44 | 188  | 143281   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.72 | 240  | 164384   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 25.02 | 264  | 172390   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.60  | 112  | 126759   | 119.58 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.21  | 99   | 172252   | 118.36 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.24  | 82   | 108703   | 73.59  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.19 | 330  | 84978    | 117.79 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.31 | 172  | 273155   | 71.58  | ng    | 0.00     |
| 79) Terphenyl-d14              | 20.05 | 244  | 631971   | 83.67  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.24  | 70   | 14695    | 14.377 | ng    | # 66     |
| 51) 2,6-Dinitrotoluene         | 14.69 | 165  | 6707     | 6.923  | ng    | # 19     |
| 57) 2,4-Dinitrotoluene         | 14.69 | 165  | 6707     | 4.915  | ng    | # 21     |
| 67) 4-Bromophenyl-phenylether  | 16.18 | 248  | 5543     | 3.168  | ng    | # 1      |
| 77) Benzidine                  | 20.05 | 184  | 10423    | 2.144  | ng    | # 95     |

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

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG121218\  
Data File : BG038523.D  
Acq On : 13 Dec 2018 8:52  
Operator : JU/SJ  
Sample : PB115618BL  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Dec 13 10:20:03 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



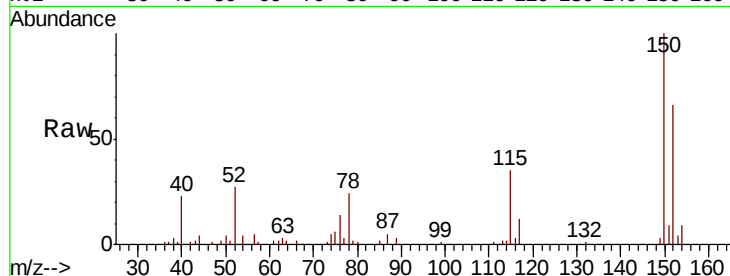


#1

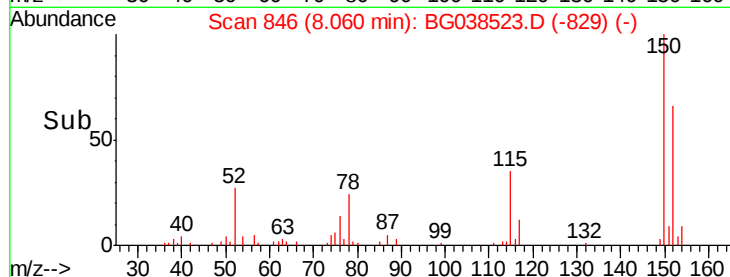
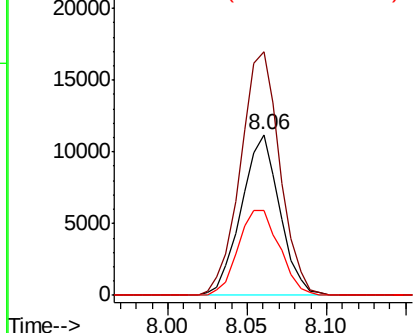
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.06 min Scan# 846  
Delta R.T. 0.00 min  
Lab File: BG038523.D  
Acq: 13 Dec 2018 8:52

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 18802  
Ion Ratio Lower Upper  
152 100  
150 151.7 119.5 179.3  
115 52.5 49.6 74.4



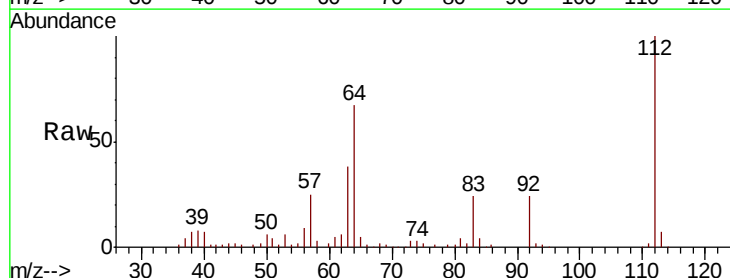
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



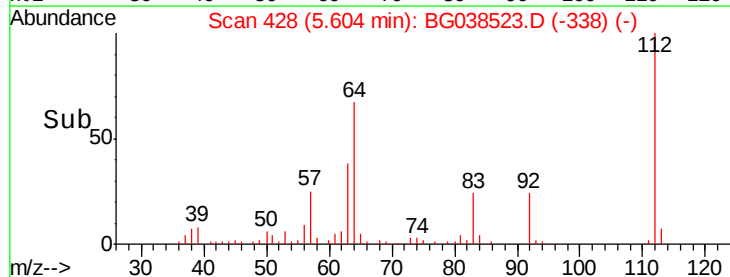
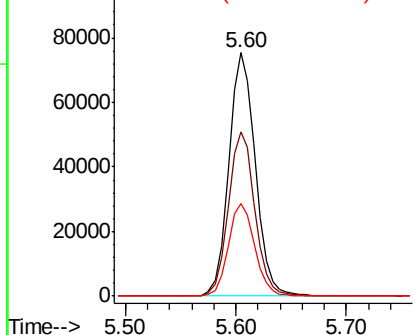
#5

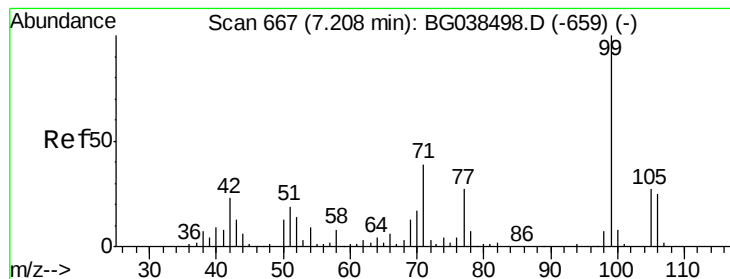
2-Fluorophenol  
Concen: 119.576 ng  
RT: 5.60 min Scan# 428  
Delta R.T. 0.00 min  
Lab File: BG038523.D  
Acq: 13 Dec 2018 8:52

Tgt Ion:112 Resp: 126759  
Ion Ratio Lower Upper  
112 100  
64 67.3 53.4 80.2  
63 37.9 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: 118.364 ng

RT: 7.21 min Scan# 701

Delta R.T. 0.00 min

Lab File: BG038523.D

Acq: 13 Dec 2018 8:52

Instrument :

BNA\_G

ClientSampled :

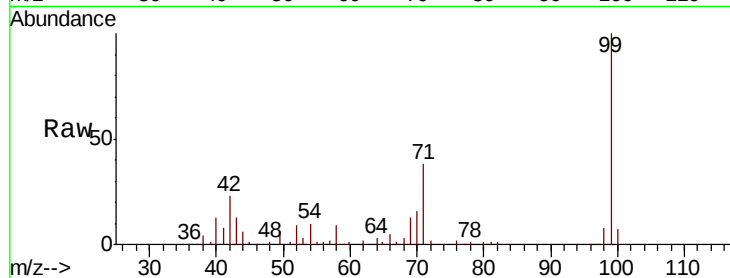
Tot Ion: 99 Resp: 172252

Ion Ratio Lower Upper

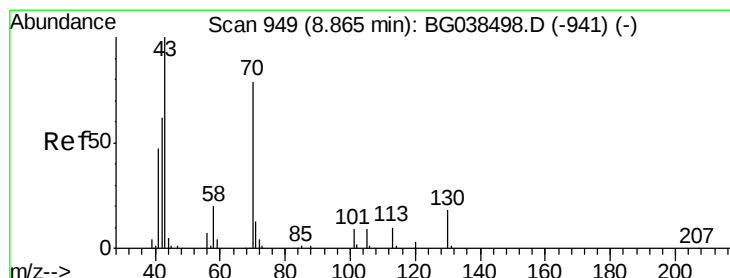
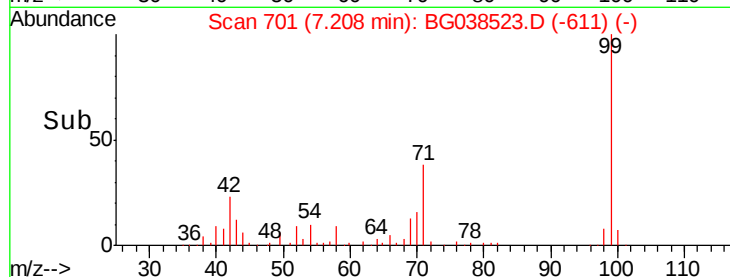
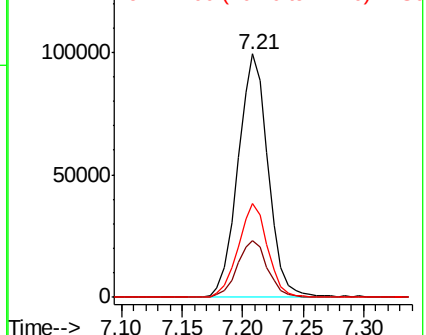
99 100

42 23.4 18.5 27.7

71 38.4 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: 14.377 ng

RT: 9.24 min Scan# 1046

Delta R.T. 0.37 min

Lab File: BG038523.D

Acq: 13 Dec 2018 8:52

Tgt Ion: 70 Resp: 14695

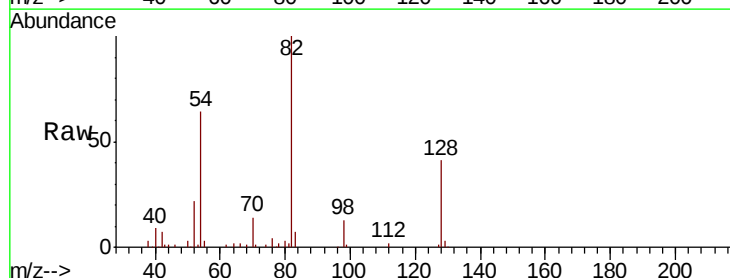
Ion Ratio Lower Upper

70 100

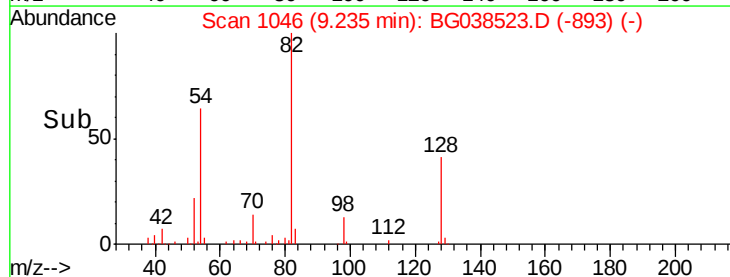
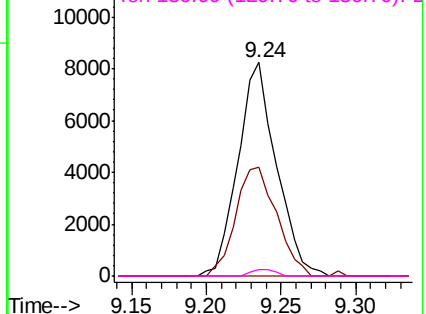
42 50.9 63.6 95.4#

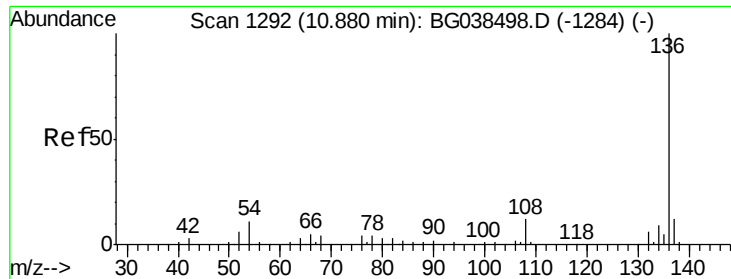
101 0.0 9.2 13.8#

130 3.0 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

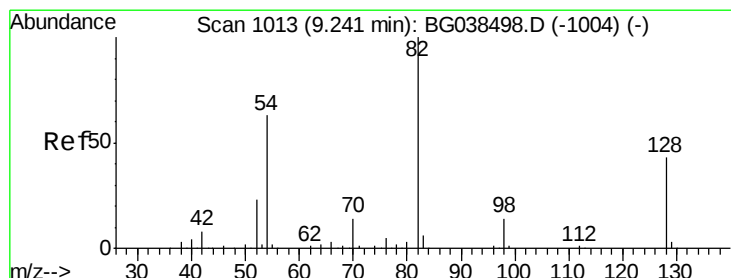
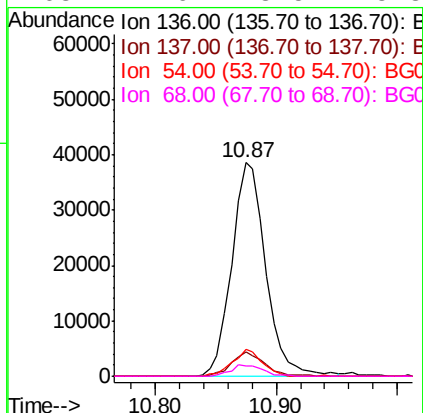
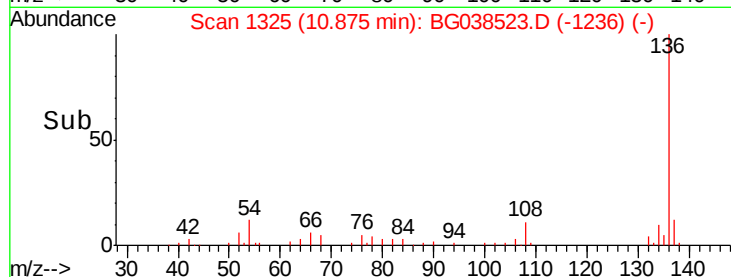
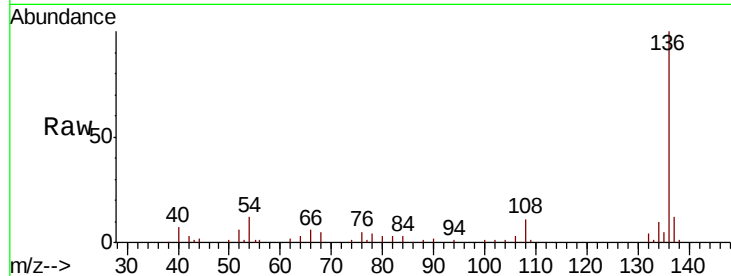




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.87 min Scan# 1325  
Delta R.T. -0.01 min  
Lab File: BG038523.D  
Acq: 13 Dec 2018 8:52

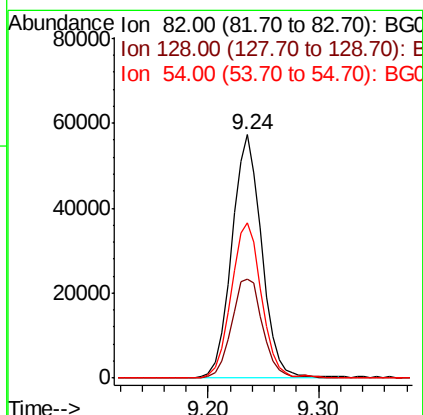
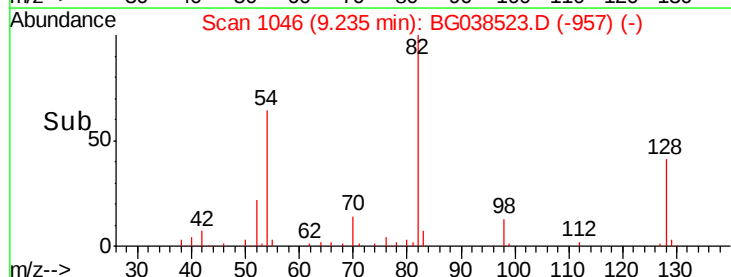
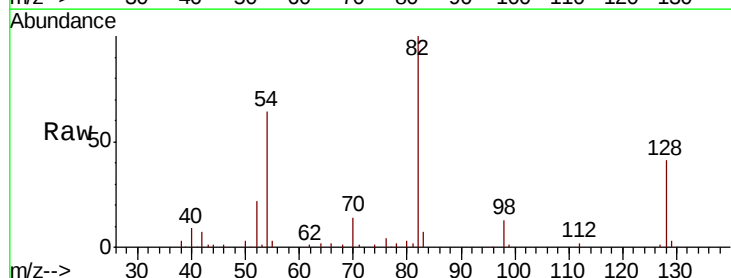
Instrument :  
BNA\_G  
ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 136   | Resp: | 75460 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.5  | 9.3   | 13.9  |
| 54       | 12.5  | 8.5   | 12.7  |
| 68       | 4.6   | 3.5   | 5.3   |



#23  
Nitrobenzene-d5  
Concen: 73.593 ng  
RT: 9.24 min Scan# 1046  
Delta R.T. -0.01 min  
Lab File: BG038523.D  
Acq: 13 Dec 2018 8:52

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 108703 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 40.8  | 34.6  | 52.0   |
| 54       | 63.6  | 50.6  | 76.0   |





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.69 min Scan# 1975

Delta R.T. -0.01 min

Lab File: BG038523.D

Acq: 13 Dec 2018 8:52

Instrument :

BNA\_G

ClientSampleId :

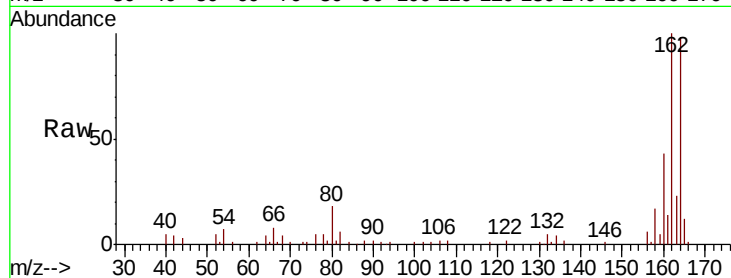
Tot Ion:164 Resp: 52348

Ion Ratio Lower Upper

164 100

162 102.3 86.6 130.0

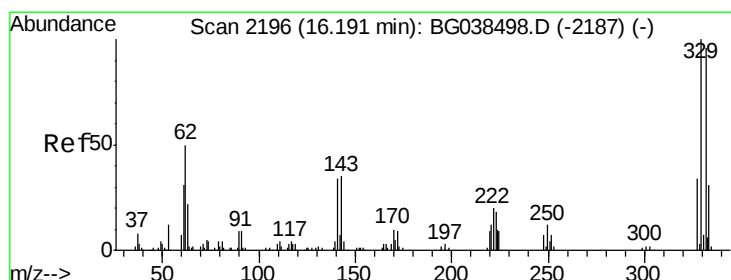
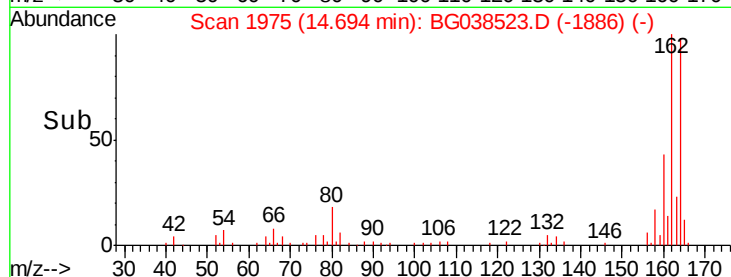
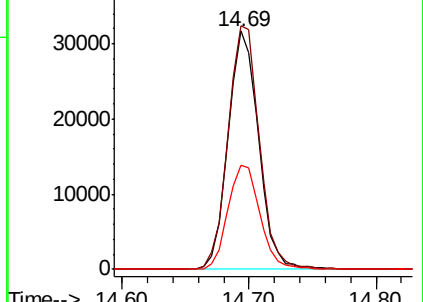
160 44.0 34.2 51.2



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: 117.788 ng

RT: 16.19 min Scan# 2229

Delta R.T. -0.01 min

Lab File: BG038523.D

Acq: 13 Dec 2018 8:52

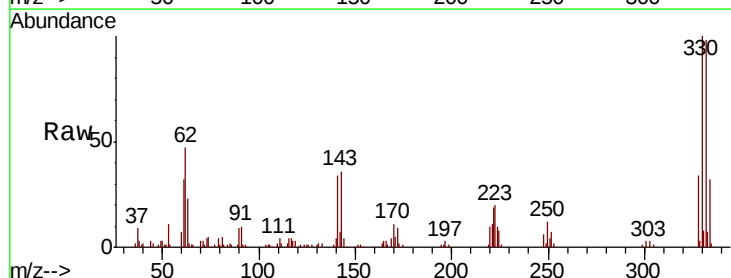
Tgt Ion:330 Resp: 84978

Ion Ratio Lower Upper

330 100

332 94.6 76.9 115.3

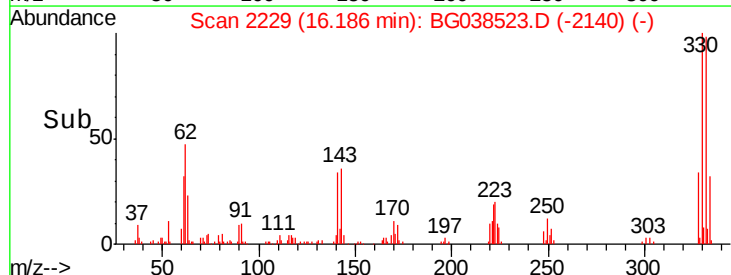
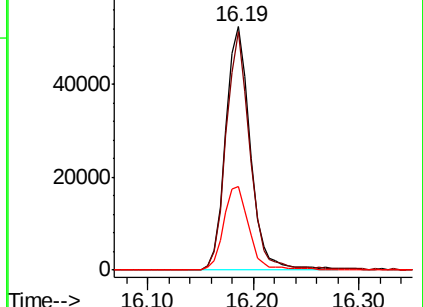
141 35.6 28.8 43.2



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

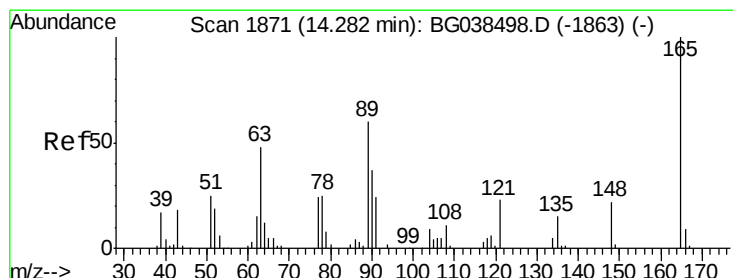
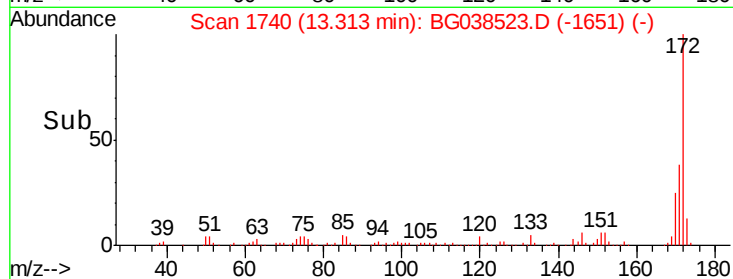
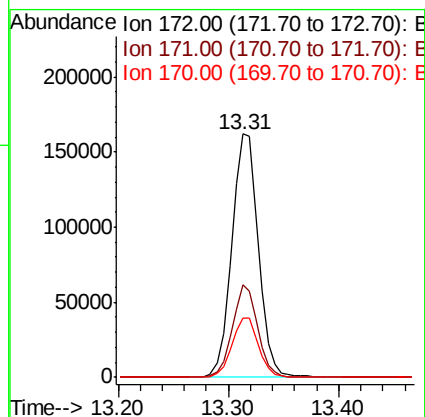
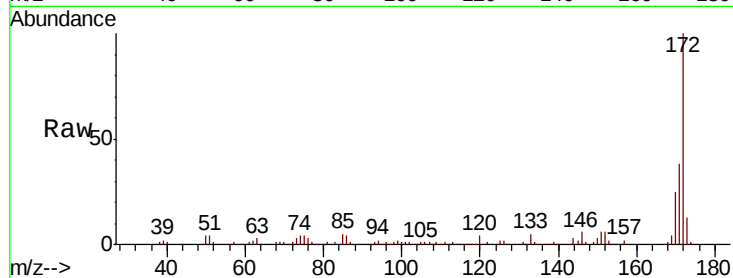




#45  
 2-Fluorobiphenyl  
 Concen: 71.584 ng  
 RT: 13.31 min Scan# 1740  
 Delta R.T. -0.01 min  
 Lab File: BG038523.D  
 Acq: 13 Dec 2018 8:52

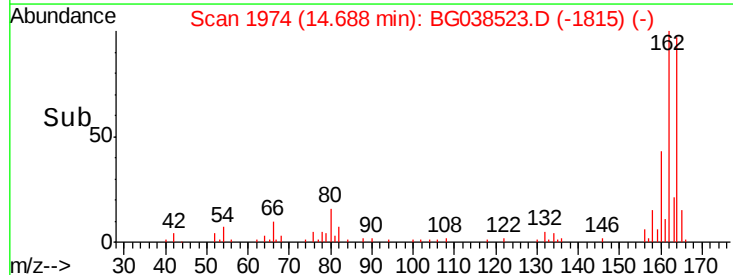
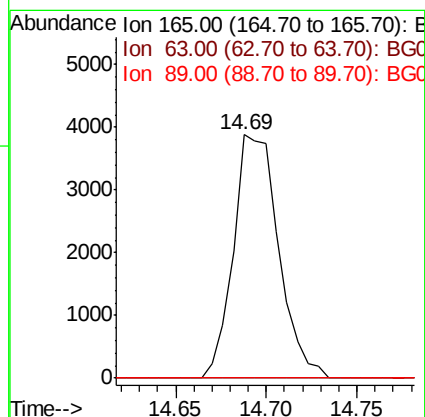
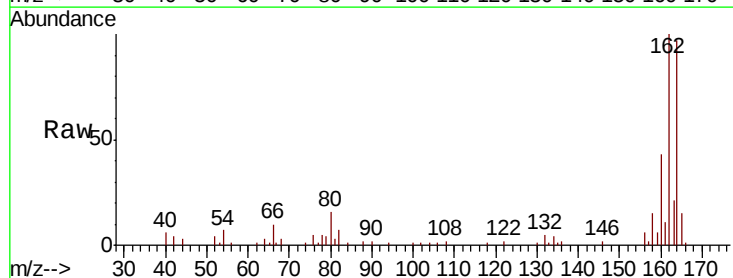
Instrument :  
 BNA\_G  
 ClientSampleId :

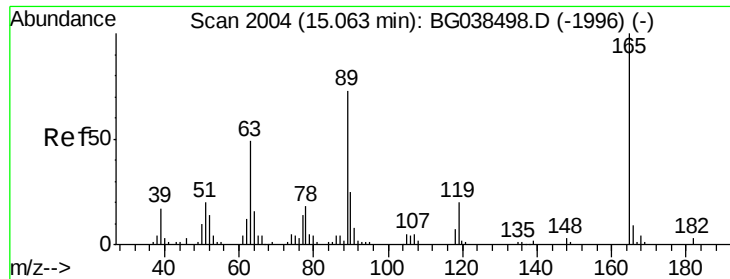
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.8  | 29.8  | 44.6  |
| 170     | 24.6  | 19.5  | 29.3  |



#51  
 2,6-Dinitrotoluene  
 Concen: 6.923 ng  
 RT: 14.69 min Scan# 1974  
 Delta R.T. 0.41 min  
 Lab File: BG038523.D  
 Acq: 13 Dec 2018 8:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 51.8  | 77.6# |
| 89      | 0.0   | 47.9  | 71.9# |

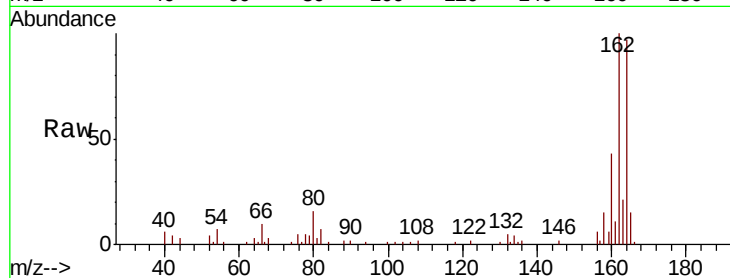




#57  
 2,4-Dinitrotoluene  
 Concen: 4.915 ng  
 RT: 14.69 min Scan# 1974  
 Delta R.T. -0.38 min  
 Lab File: BG038523.D  
 Acq: 13 Dec 2018 8:52

Instrument :  
 BNA\_G  
 ClientSampleId :

| 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#  |

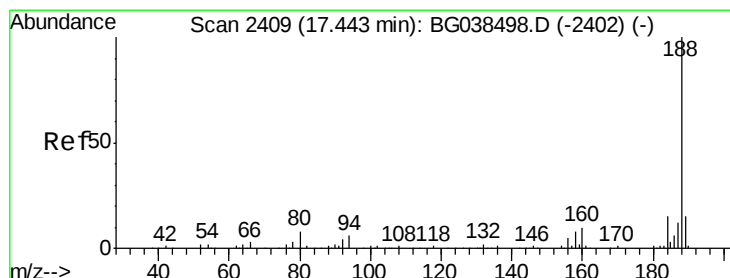
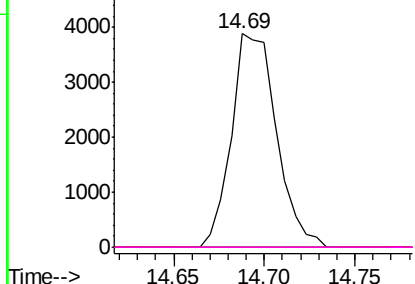
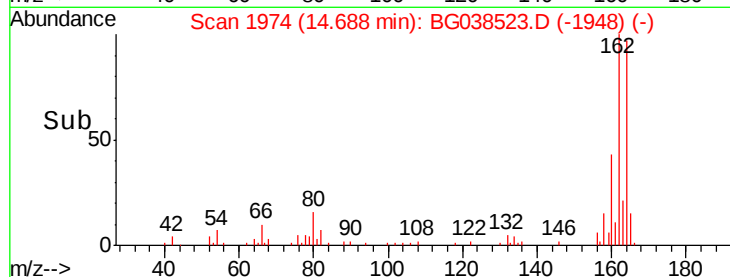


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

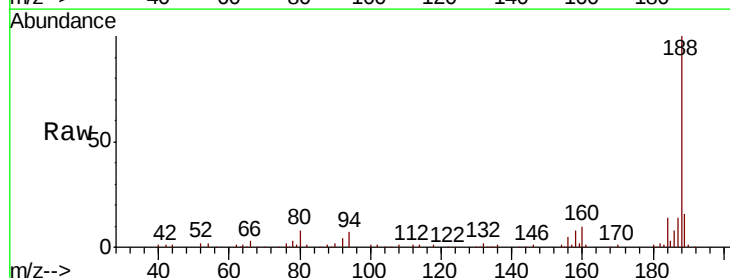
Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.44 min Scan# 2443  
 Delta R.T. 0.00 min  
 Lab File: BG038523.D  
 Acq: 13 Dec 2018 8:52

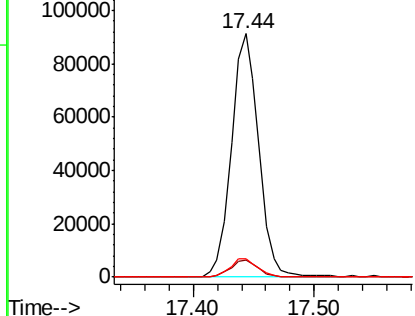
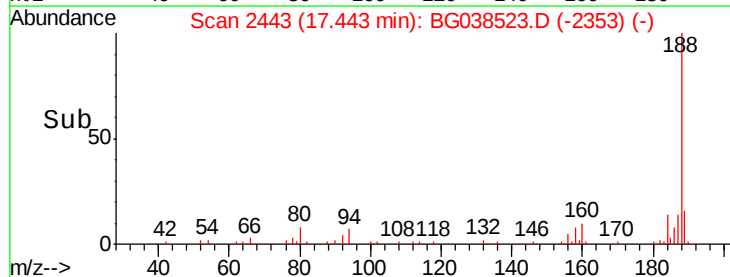
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 7.1   | 5.1   | 7.7   |
| 80      | 7.5   | 6.1   | 9.1   |



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

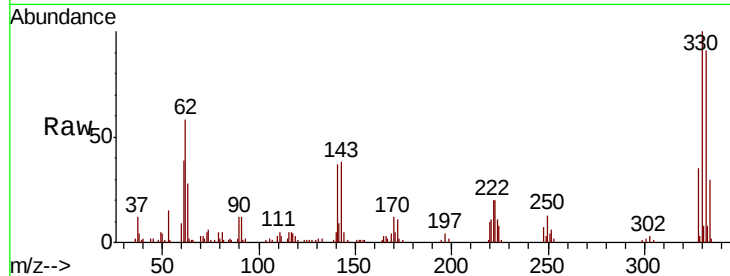




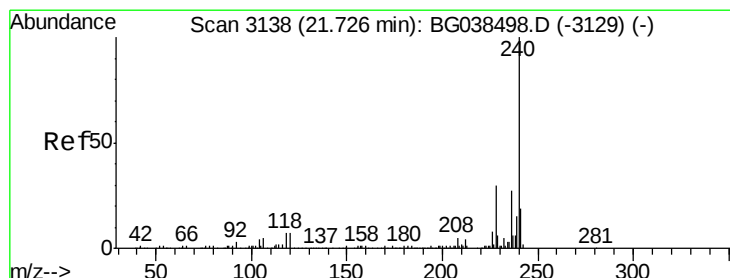
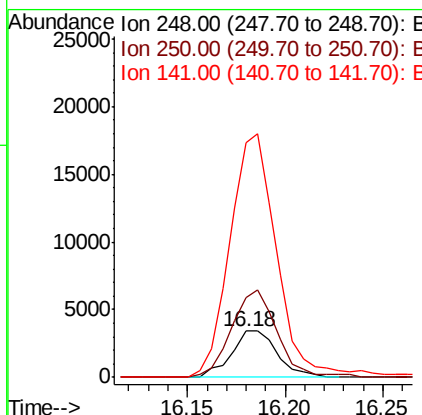
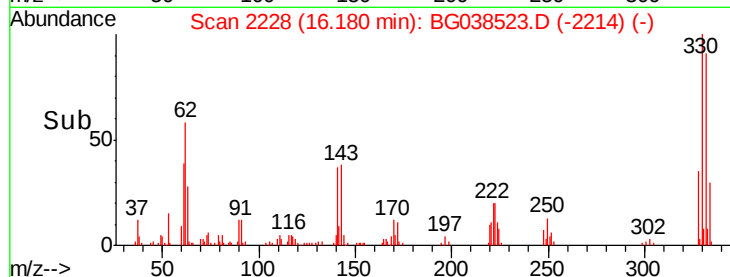
#67  
 4-Bromophenyl-phenylether  
 Concen: 3.168 ng  
 RT: 16.18 min Scan# 2228  
 Delta R.T. -0.45 min  
 Lab File: BG038523.D  
 Acq: 13 Dec 2018 8:52

Instrument :  
 BNA\_G  
 ClientSampled :

Tot Ion:248 Resp: 5543  
 Ion Ratio Lower Upper  
 248 100  
 250 166.2 73.4 110.2#  
 141 370.8 52.9 79.3#

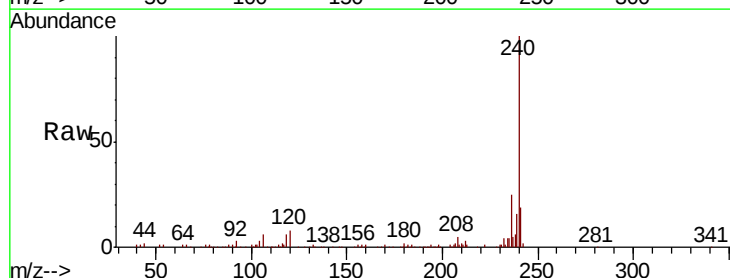


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

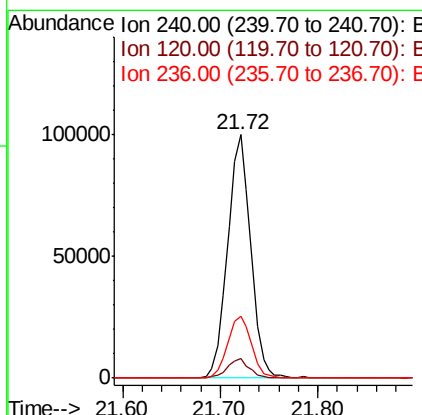
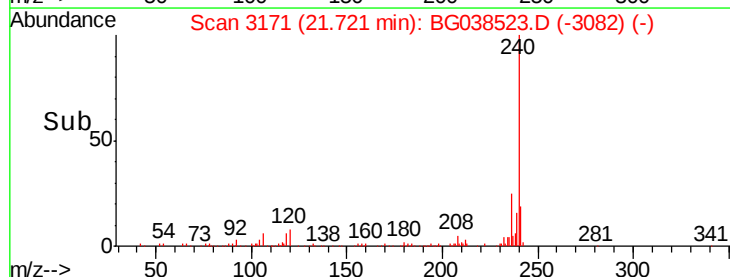


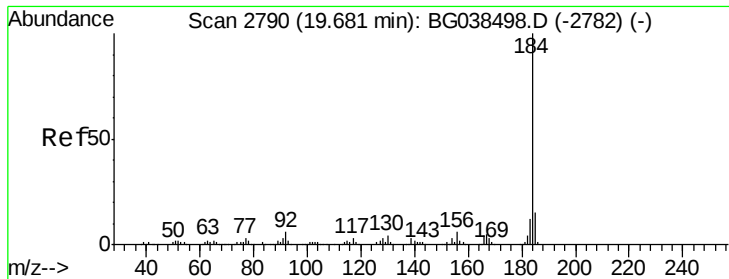
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.72 min Scan# 3171  
 Delta R.T. -0.01 min  
 Lab File: BG038523.D  
 Acq: 13 Dec 2018 8:52

Tgt Ion:240 Resp: 164384  
 Ion Ratio Lower Upper  
 240 100  
 120 8.1 5.3 7.9#  
 236 25.4 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: 2.144 ng

RT: 20.05 min Scan# 2886

Delta R.T. 0.36 min

Lab File: BG038523.D

Acq: 13 Dec 2018 8:52

Instrument :

BNA\_G

ClientSampleId :

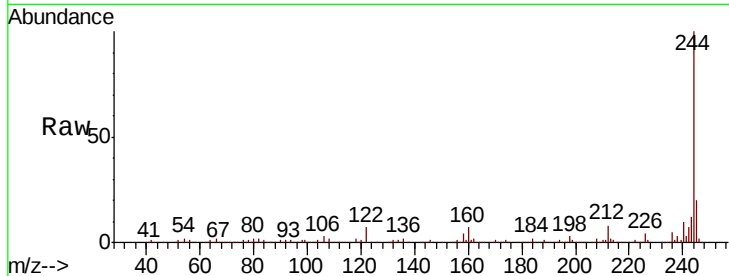
Tot Ion:184 Resp: 10423

Ion Ratio Lower Upper

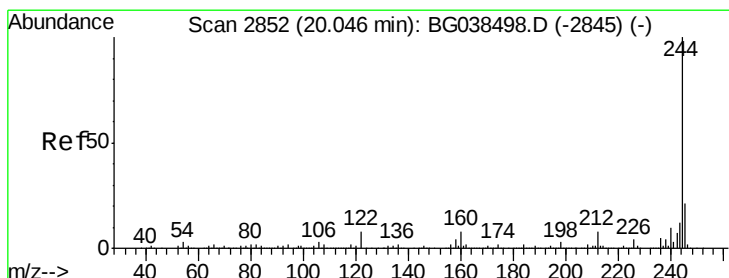
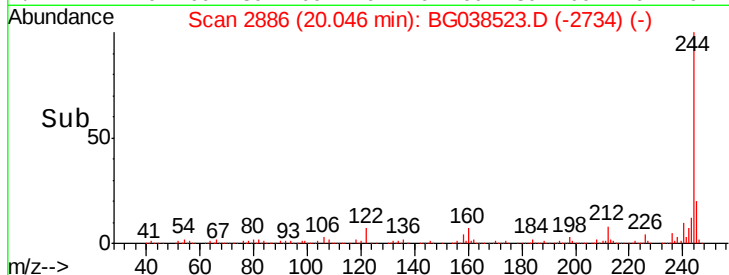
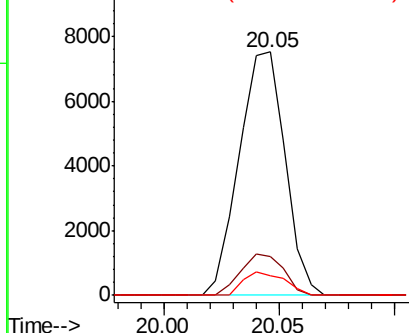
184 100

185 15.7 12.2 18.2

183 7.9 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: 83.669 ng

RT: 20.05 min Scan# 2886

Delta R.T. 0.00 min

Lab File: BG038523.D

Acq: 13 Dec 2018 8:52

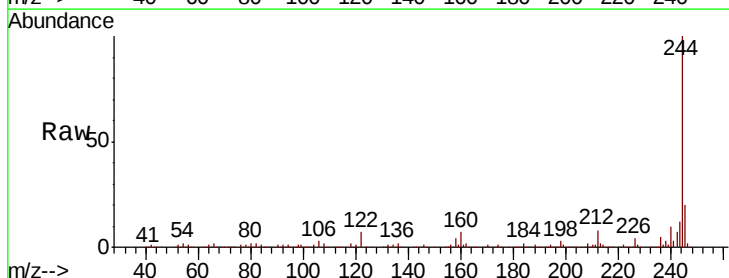
Tgt Ion:244 Resp: 631971

Ion Ratio Lower Upper

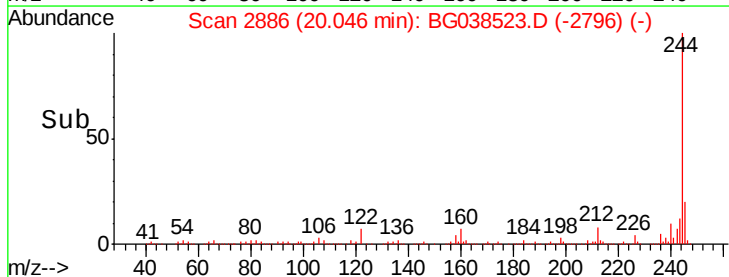
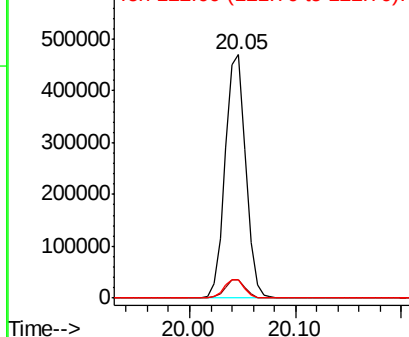
244 100

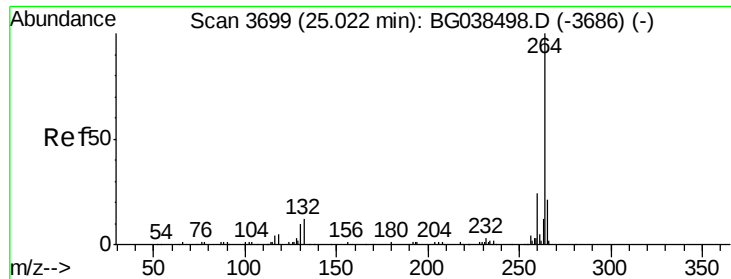
212 7.8 6.2 9.2

122 7.5 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: 25.02 min Scan# 3732  
Delta R.T. -0.01 min  
Lab File: BG038523.D  
Acq: 13 Dec 2018 8:52

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.3  | 18.9  | 28.3  |
| 265     | 22.0  | 17.0  | 25.4  |

