

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG101118\  
 Data File : BG037283.D  
 Acq On : 12 Oct 2018 9:04  
 Operator : JU/SJ  
 Sample : J5371-04  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Oct 12 11:12:55 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG101118.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Oct 11 13:59:58 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.12  | 152  | 57888    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.95 | 136  | 250838   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.75 | 164  | 166558   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 17.50 | 188  | 431178   | 20.00 | ng    | -0.01    |
| 76) Chrysene-d12          | 21.79 | 240  | 418349   | 20.00 | ng    | -0.01    |
| 87) Perylene-d12          | 25.13 | 264  | 420413   | 20.00 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.65  | 112  | 137443   | 41.79  | ng    | 0.00     |
| 7) Phenol-d6                | 7.25  | 99   | 122768   | 24.59  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.29  | 82   | 405079   | 106.17 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.24 | 330  | 168192   | 102.97 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.38 | 172  | 1033094  | 93.15  | ng    | 0.00     |
| 79) Terphenyl-d14           | 20.11 | 244  | 1749529  | 87.81  | ng    | 0.00     |

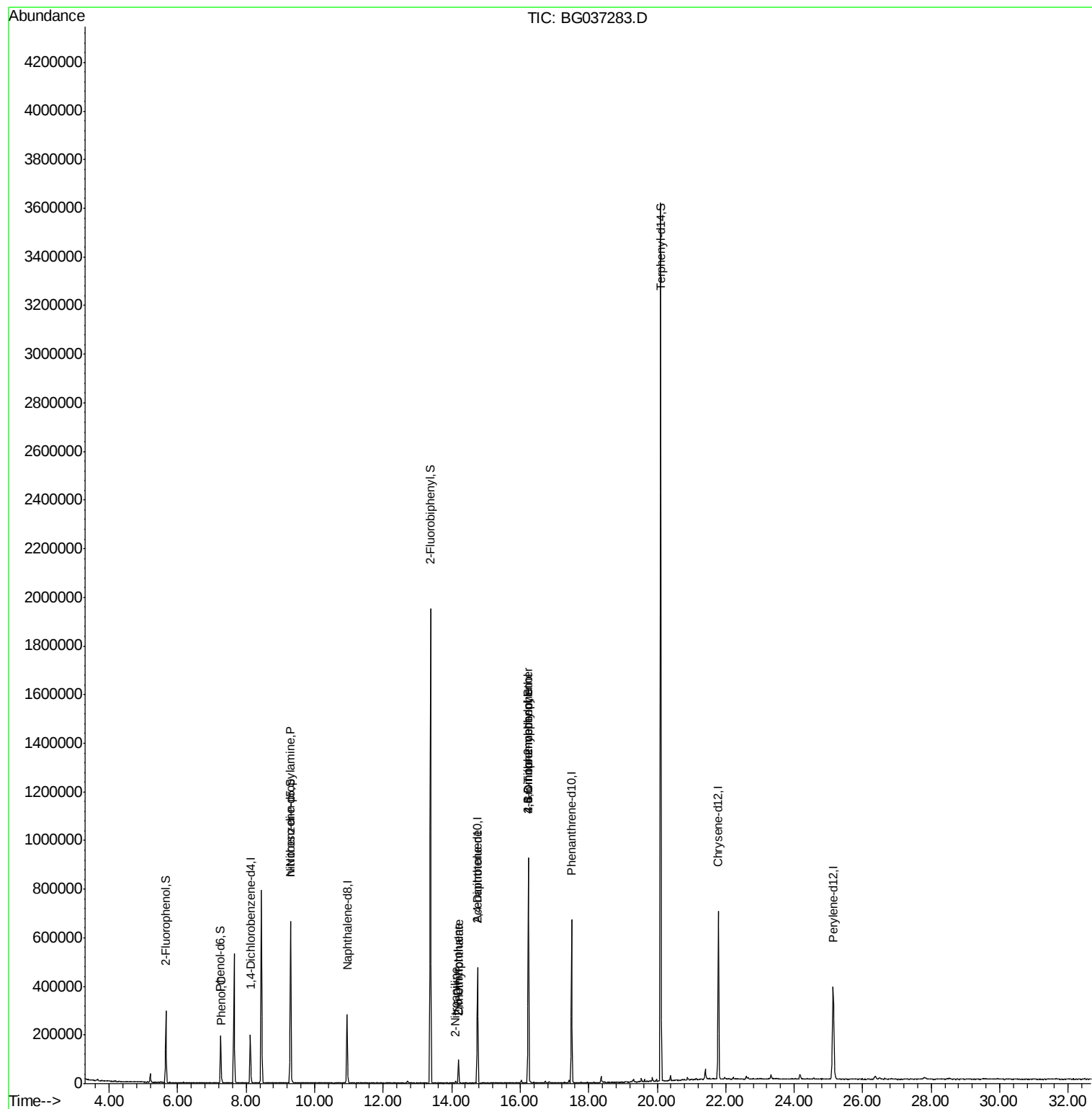
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 10) Phenol                     | 7.28  | 94   | 10877    | 2.069  | ng    | 97     |
| 19) n-Nitroso-di-n-propylamine | 9.29  | 70   | 52704    | 13.943 | ng    | # 71   |
| 48) 2-Nitroaniline             | 14.11 | 65   | 319      | 5.855  | ng    | # 7    |
| 50) Dimethylphthalate          | 14.20 | 163  | 69966    | 5.345  | ng    | 99     |
| 51) 2,6-Dinitrotoluene         | 14.19 | 165  | 715      | 5.064  | ng    | # 32   |
| 57) 2,4-Dinitrotoluene         | 14.75 | 165  | 22280    | 11.487 | ng    | # 25   |
| 65) 4,6-Dinitro-2-methylphenol | 16.23 | 198  | 477      | 6.255  | ng    | 83     |
| 67) 4-Bromophenyl-phenylether  | 16.24 | 248  | 11691    | 2.512  | ng    | # 1    |

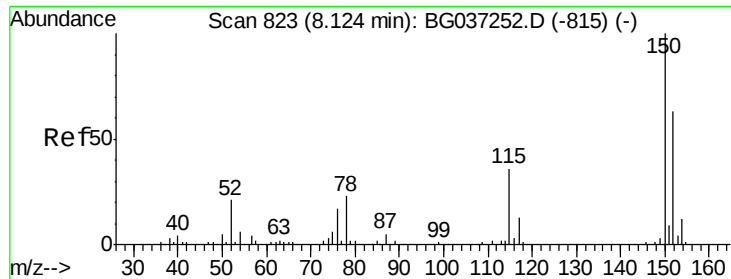
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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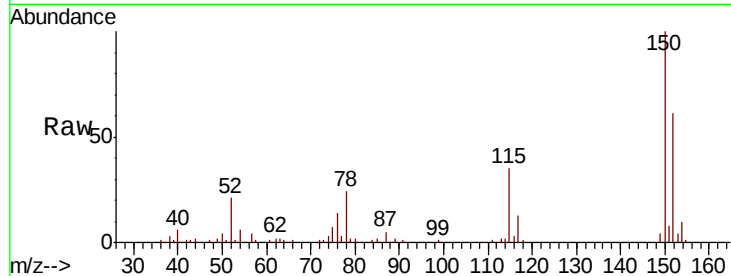


#1

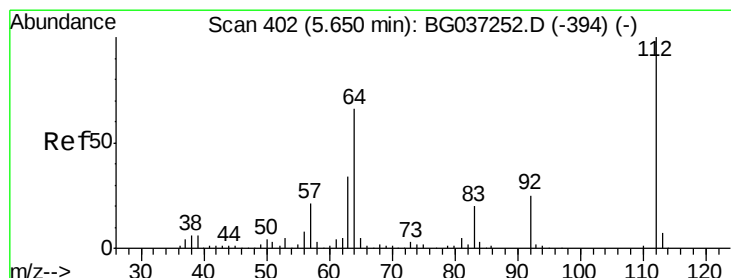
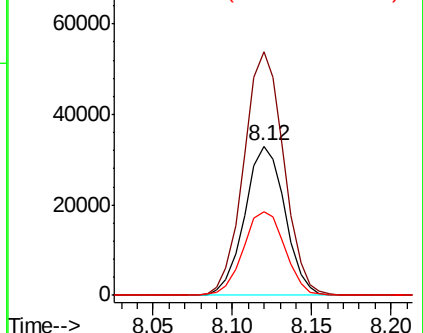
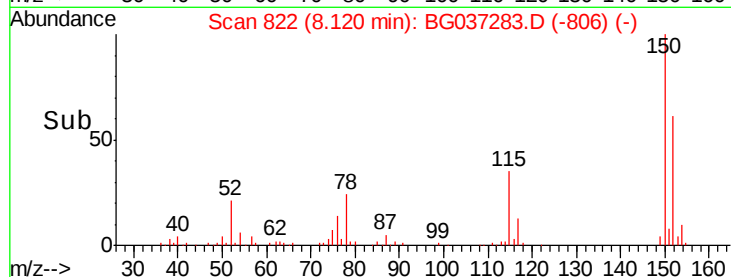
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 8.12 min Scan# 822  
 Delta R.T. -0.00 min  
 Lab File: BG037283.D  
 Acq: 12 Oct 2018 9:04

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 163.3 | 126.0 | 189.0 |
| 115     | 56.5  | 45.5  | 68.3  |



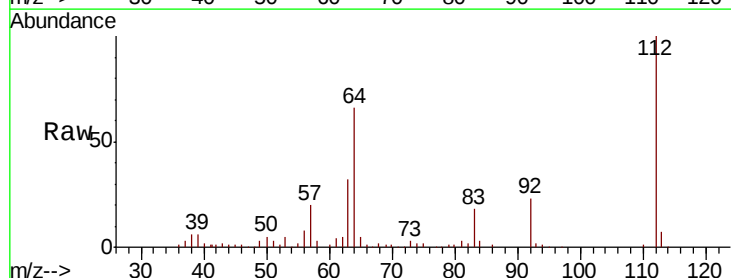
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



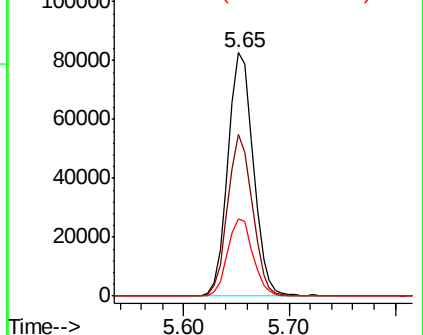
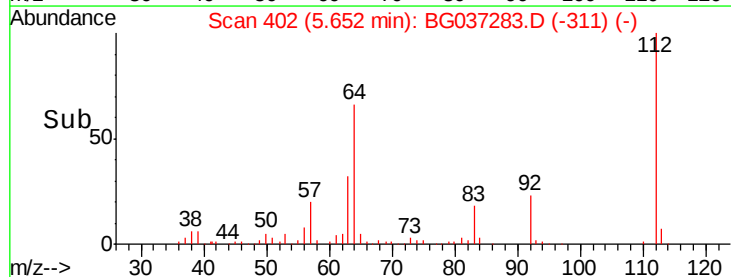
#5

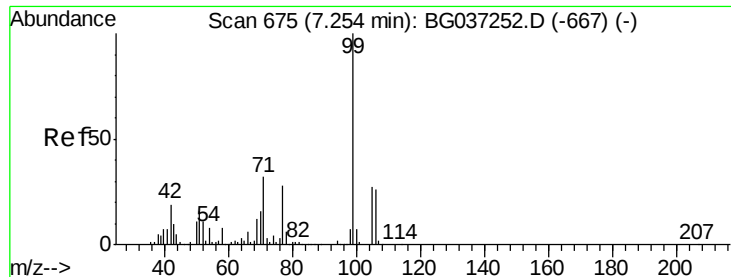
2-Fluorophenol  
 Concen: 41.785 ng  
 RT: 5.65 min Scan# 402  
 Delta R.T. 0.00 min  
 Lab File: BG037283.D  
 Acq: 12 Oct 2018 9:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 66.3  | 53.1  | 79.7  |
| 63      | 31.8  | 27.3  | 40.9  |



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: 24.590 ng

RT: 7.25 min Scan# 674

Delta R.T. -0.00 min

Lab File: BG037283.D

Acq: 12 Oct 2018 9:04

Instrument :

BNA\_G

ClientSampleId :

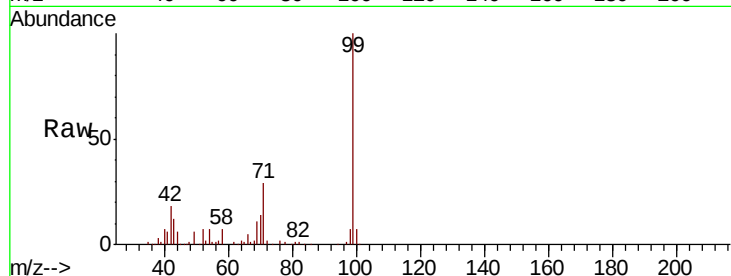
Tot Ion: 99 Resp: 122768

Ion Ratio Lower Upper

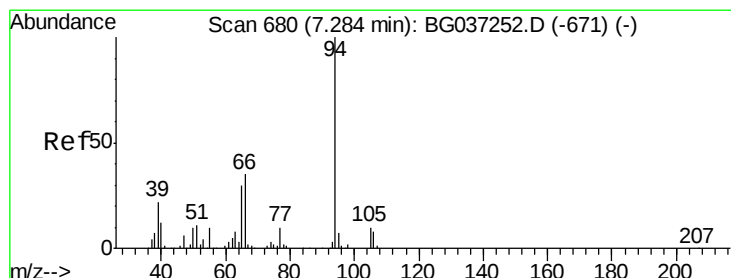
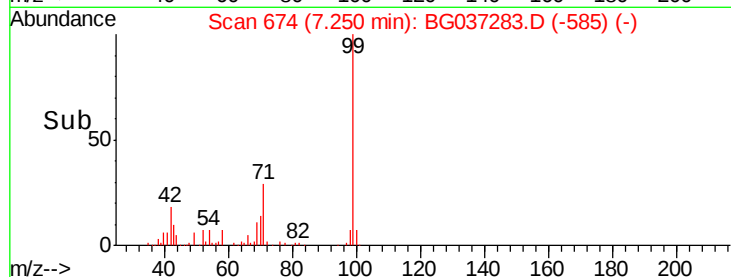
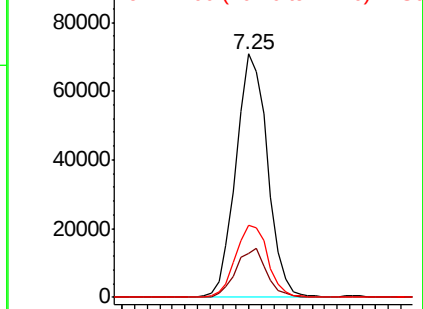
99 100

42 18.0 15.0 22.4

71 29.4 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



#10

Phenol

Concen: 2.069 ng

RT: 7.28 min Scan# 679

Delta R.T. -0.00 min

Lab File: BG037283.D

Acq: 12 Oct 2018 9:04

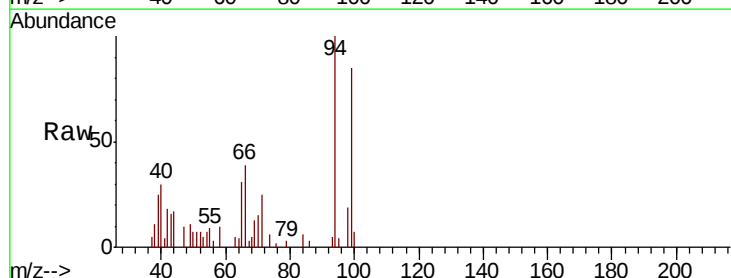
Tgt Ion: 94 Resp: 10877

Ion Ratio Lower Upper

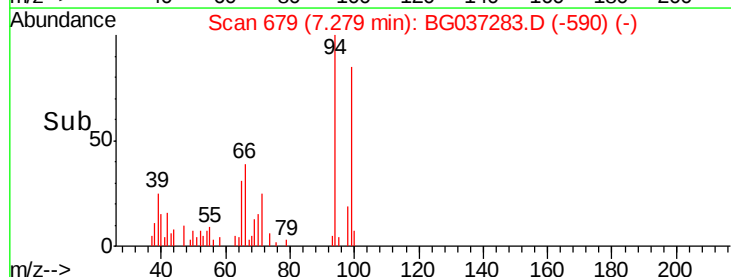
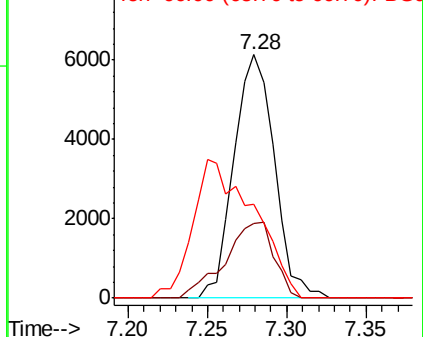
94 100

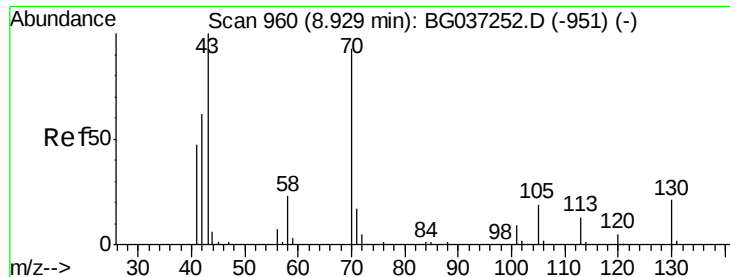
65 30.8 9.7 49.7

66 38.6 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

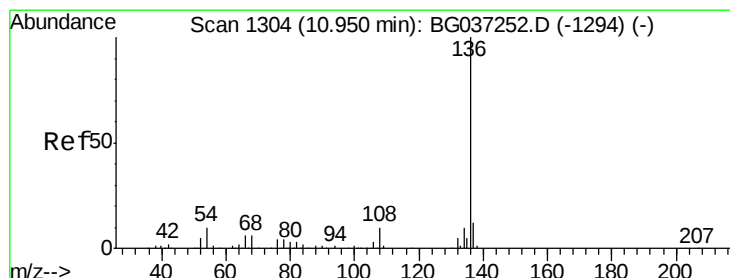
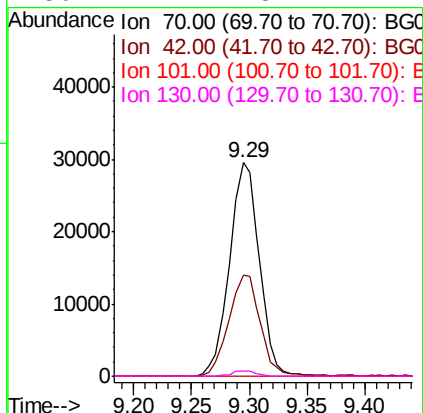
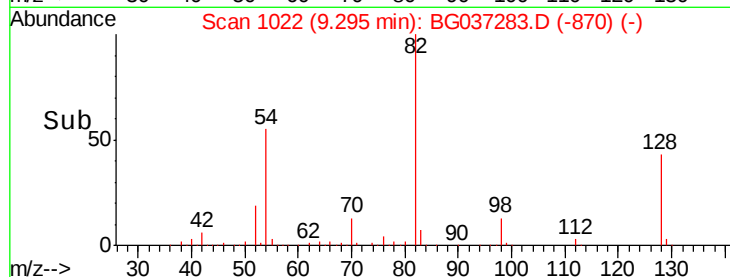
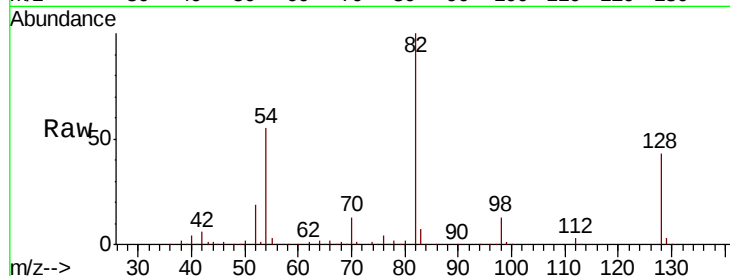




#19  
n-Nitroso-di-n-propylamine  
Concen: 13.943 ng  
RT: 9.29 min Scan# 1022  
Delta R.T. 0.37 min  
Lab File: BG037283.D  
Acq: 12 Oct 2018 9:04

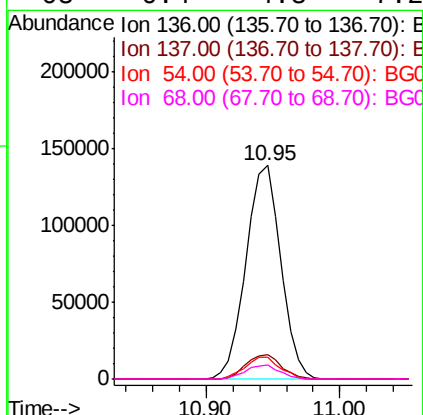
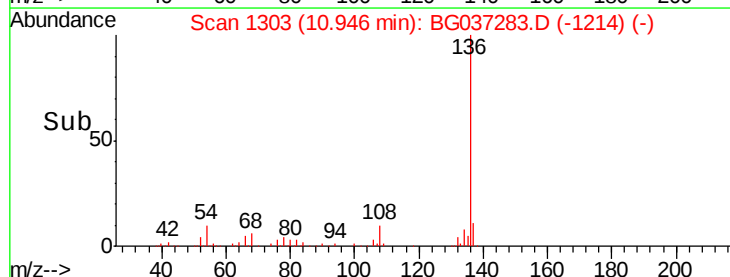
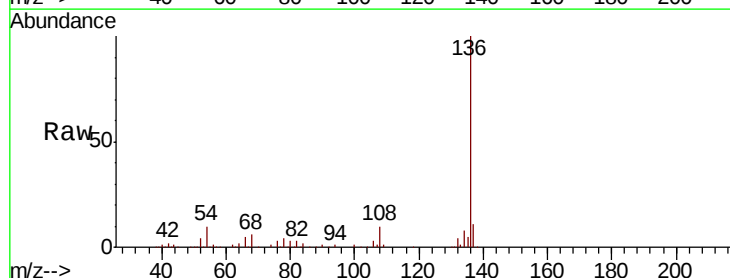
Instrument :  
BNA\_G  
ClientSampled :

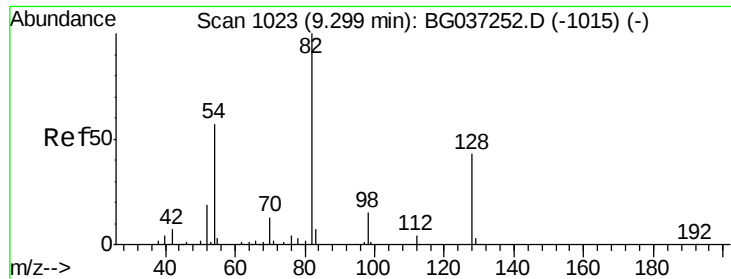
Tot Ion: 70 Resp: 52704  
Ion Ratio Lower Upper  
70 100  
42 47.1 53.9 80.9#  
101 0.0 8.2 12.2#  
130 2.4 18.2 27.4#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.95 min Scan# 1303  
Delta R.T. -0.00 min  
Lab File: BG037283.D  
Acq: 12 Oct 2018 9:04

Tgt Ion: 136 Resp: 250838  
Ion Ratio Lower Upper  
136 100  
137 11.2 9.6 14.4  
54 10.2 7.9 11.9  
68 6.4 4.8 7.2

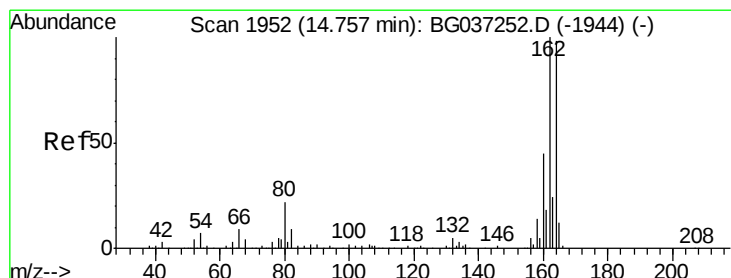
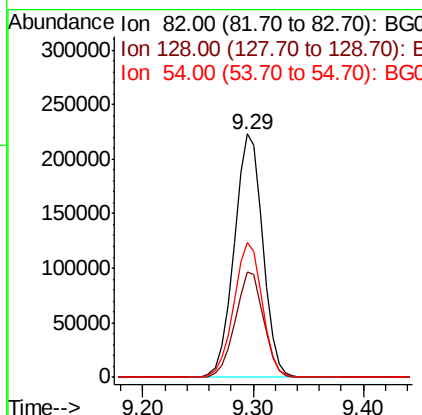
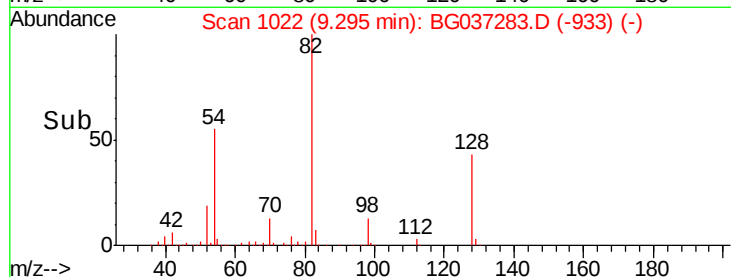
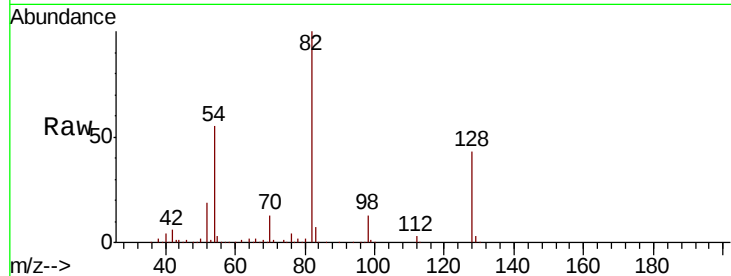




#23  
 Nitrobenzene-d5  
 Concen: 106.171 ng  
 RT: 9.29 min Scan# 1022  
 Delta R.T. -0.00 min  
 Lab File: BG037283.D  
 Acq: 12 Oct 2018 9:04

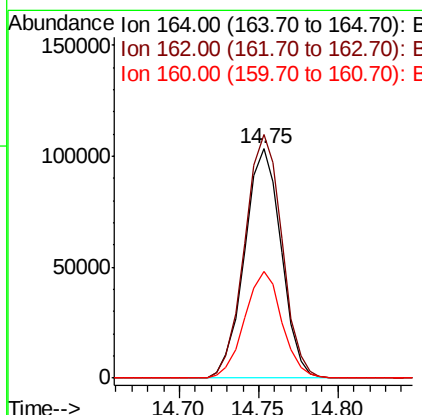
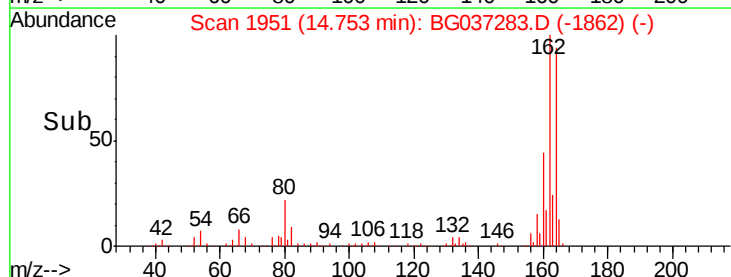
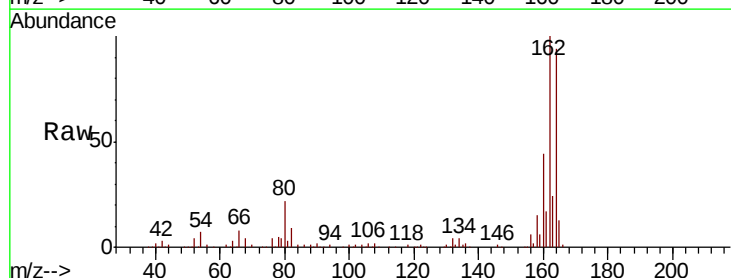
Instrument :  
 BNA\_G  
 ClientSampled :

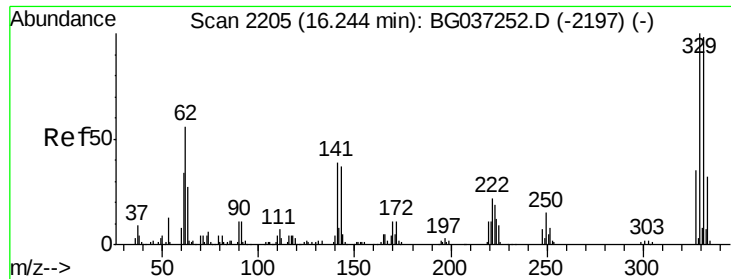
| Tot Ion   | 82    | Resp  | 405079 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 43.2  | 34.6  | 51.8   |
| 54        | 55.2  | 45.3  | 67.9   |



#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 14.75 min Scan# 1951  
 Delta R.T. -0.00 min  
 Lab File: BG037283.D  
 Acq: 12 Oct 2018 9:04

| Tgt Ion   | 164   | Resp  | 166558 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 106.3 | 81.3  | 121.9  |
| 160       | 46.9  | 36.3  | 54.5   |

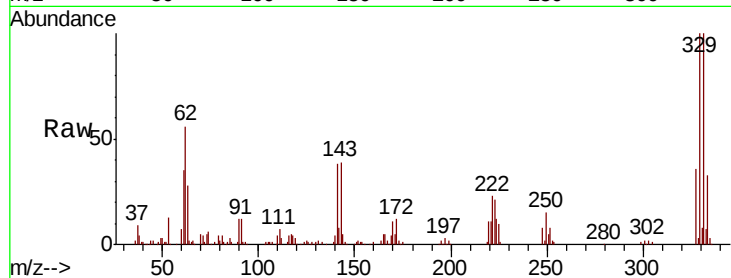




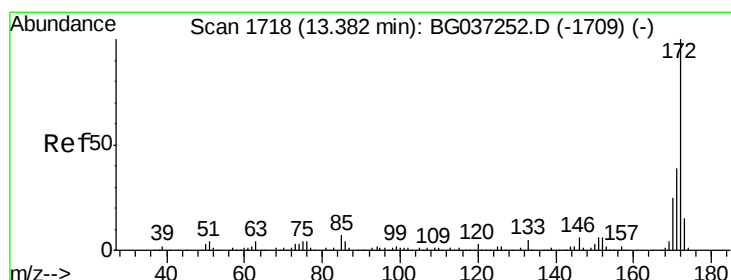
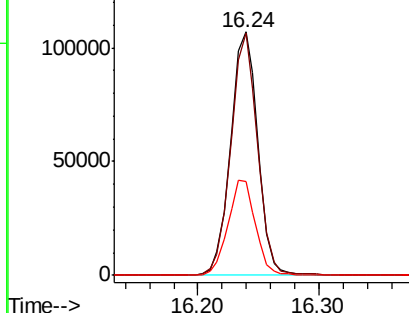
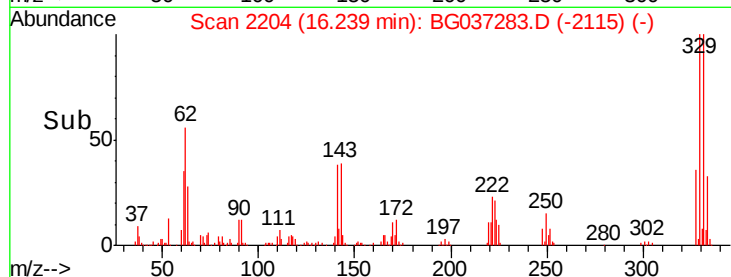
#42  
 2,4,6-Tribromophenol  
 Concen: 102.966 ng  
 RT: 16.24 min Scan# 2204  
 Delta R.T. -0.00 min  
 Lab File: BG037283.D  
 Acq: 12 Oct 2018 9:04

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.8  | 78.4  | 117.6 |
| 141     | 39.1  | 32.2  | 48.2  |

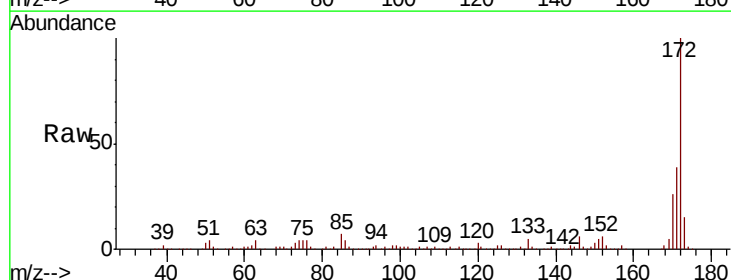


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

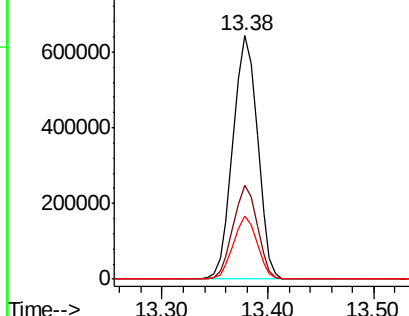
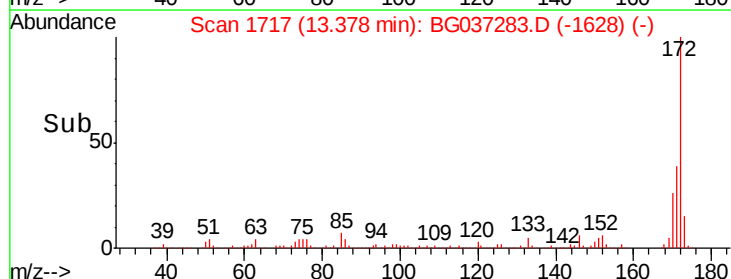


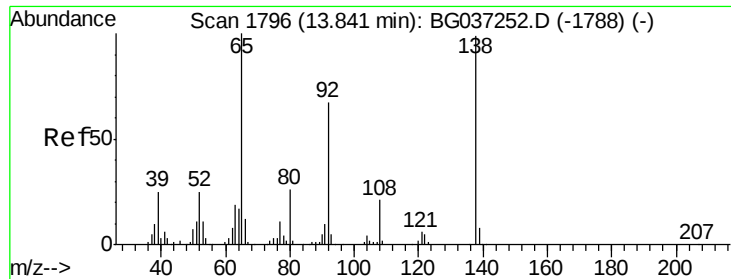
#45  
 2-Fluorobiphenyl  
 Concen: 93.149 ng  
 RT: 13.38 min Scan# 1717  
 Delta R.T. -0.00 min  
 Lab File: BG037283.D  
 Acq: 12 Oct 2018 9:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 38.5  | 31.0  | 46.4  |
| 170     | 25.8  | 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

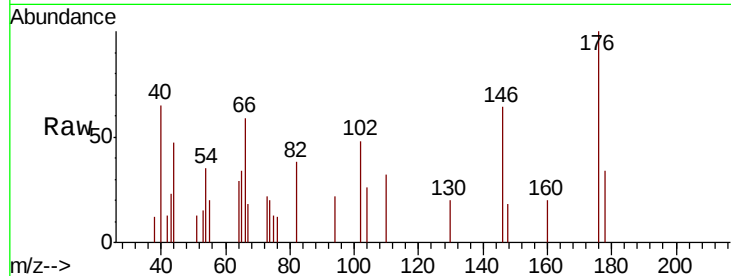




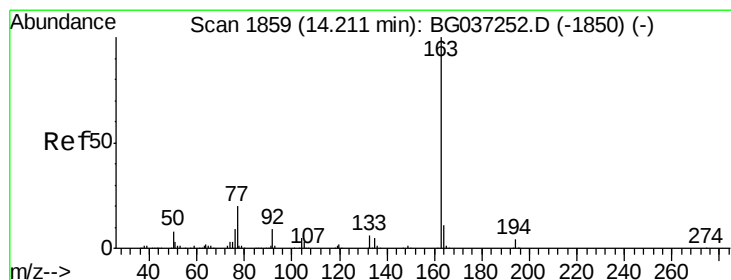
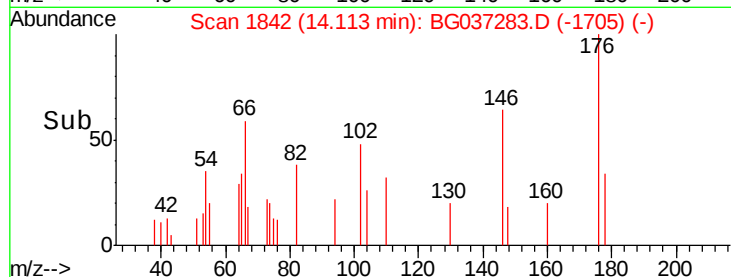
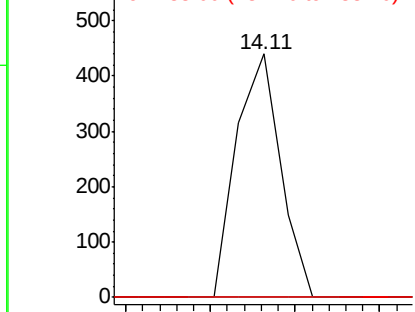
#48  
2-Nitroaniline  
Concen: 5.855 ng  
RT: 14.11 min Scan# 1842  
Delta R.T. 0.27 min  
Lab File: BG037283.D  
Acq: 12 Oct 2018 9:04

Instrument :  
BNA\_G  
ClientSampled :

Tot Ion: 65 Resp: 319  
Ion Ratio Lower Upper  
65 100  
92 0.0 53.2 79.8#  
138 0.0 79.3 118.9#

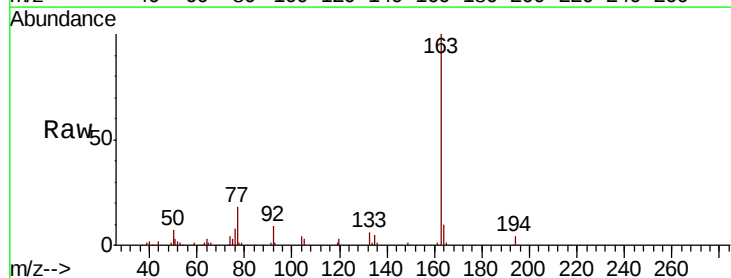


Abundance Ion 65.00 (64.70 to 65.70): BGC  
Ion 92.00 (91.70 to 92.70): BGC  
Ion 138.00 (137.70 to 138.70): BGC

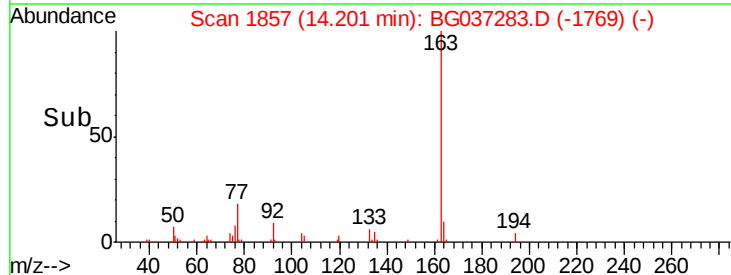
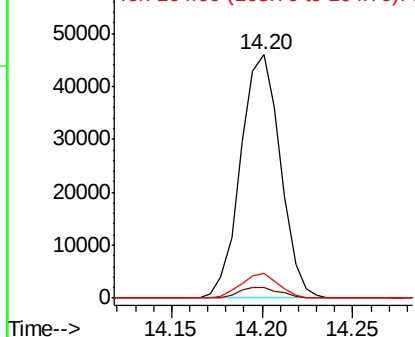


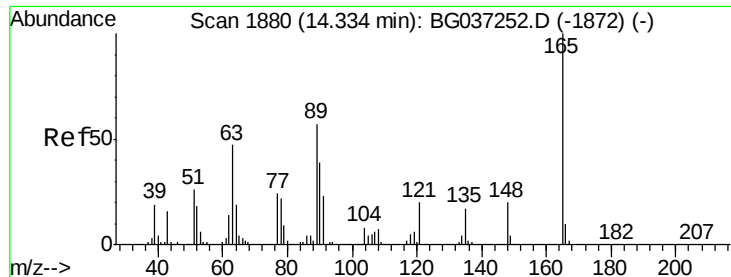
#50  
Dimethylphthalate  
Concen: 5.345 ng  
RT: 14.20 min Scan# 1857  
Delta R.T. -0.01 min  
Lab File: BG037283.D  
Acq: 12 Oct 2018 9:04

Tgt Ion:163 Resp: 69966  
Ion Ratio Lower Upper  
163 100  
194 4.2 3.5 5.3  
164 10.1 8.5 12.7



Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

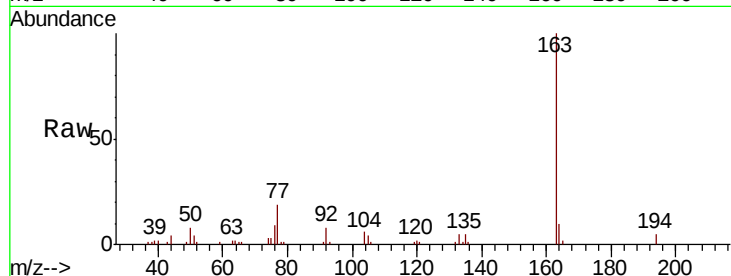




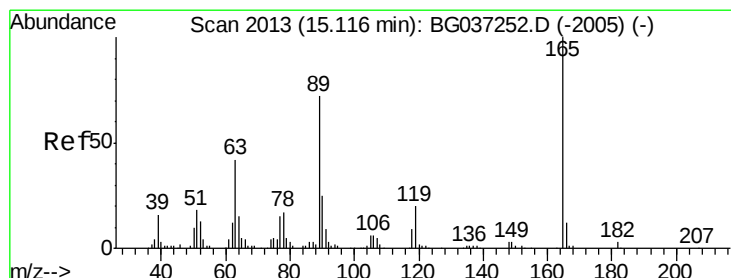
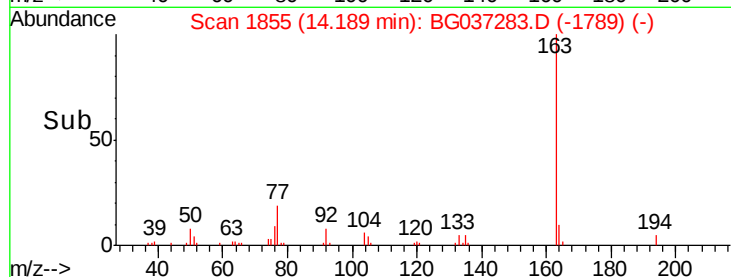
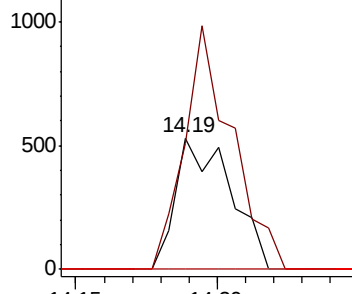
#51  
 2,6-Dinitrotoluene  
 Concen: 5.064 ng  
 RT: 14.19 min Scan# 1855  
 Delta R.T. -0.15 min  
 Lab File: BG037283.D  
 Acq: 12 Oct 2018 9:04

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:165 Resp: 715  
 Ion Ratio Lower Upper  
 165 100  
 63 96.0 43.4 65.2#  
 89 0.0 45.8 68.6#

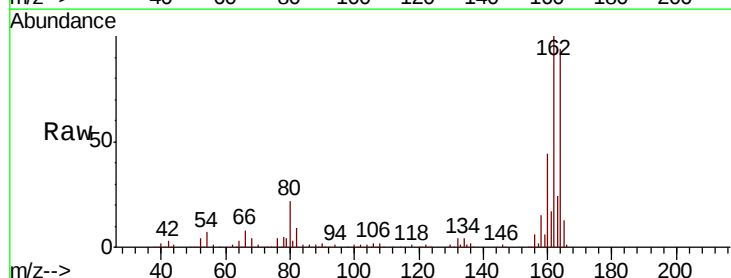


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BGC  
 Ion 89.00 (88.70 to 89.70): BGC

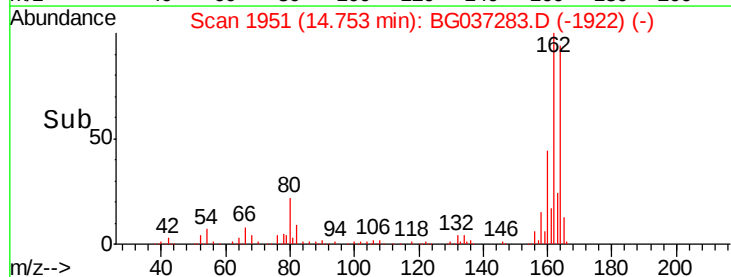
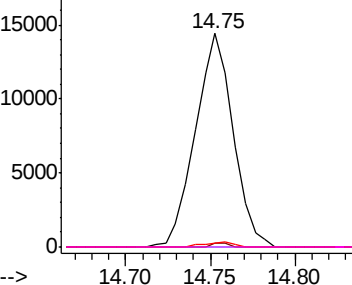


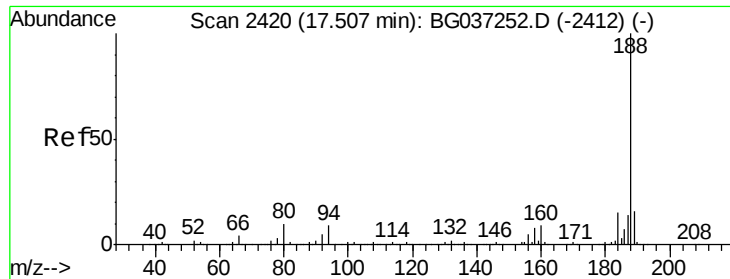
#57  
 2,4-Dinitrotoluene  
 Concen: 11.487 ng  
 RT: 14.75 min Scan# 1951  
 Delta R.T. -0.36 min  
 Lab File: BG037283.D  
 Acq: 12 Oct 2018 9:04

Tgt Ion:165 Resp: 22280  
 Ion Ratio Lower Upper  
 165 100  
 63 1.7 33.4 50.0#  
 89 1.5 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

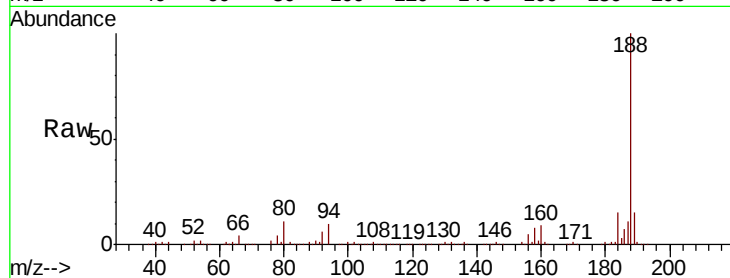




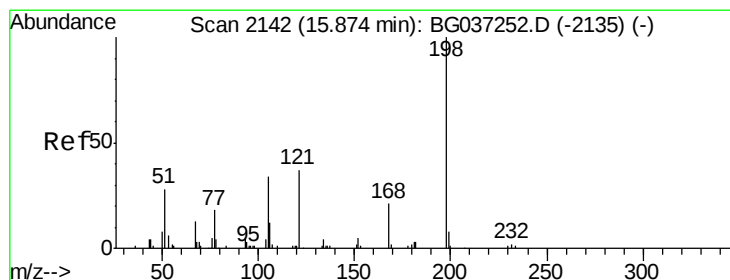
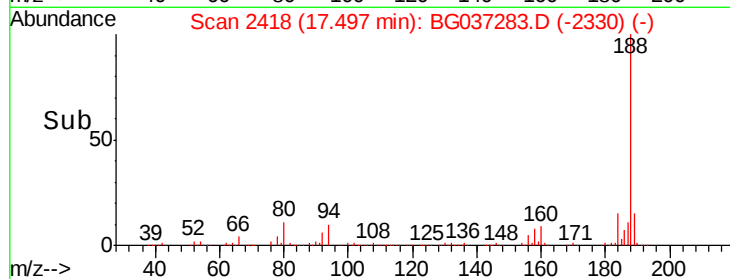
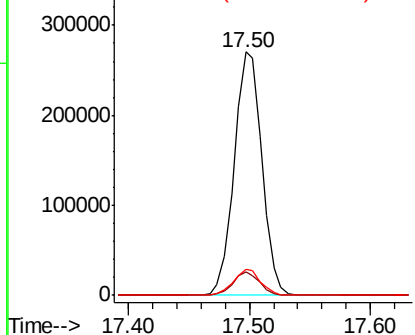
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.50 min Scan# 2418  
Delta R.T. -0.01 min  
Lab File: BG037283.D  
Acq: 12 Oct 2018 9:04

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:188 Resp: 431178  
Ion Ratio Lower Upper  
188 100  
94 9.6 7.2 10.8  
80 10.8 7.7 11.5

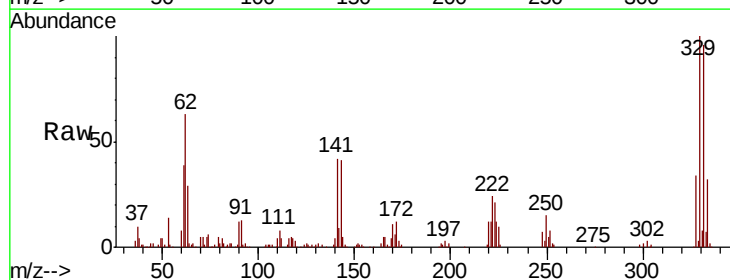


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BGC  
Ion 80.00 (79.70 to 80.70): BGC

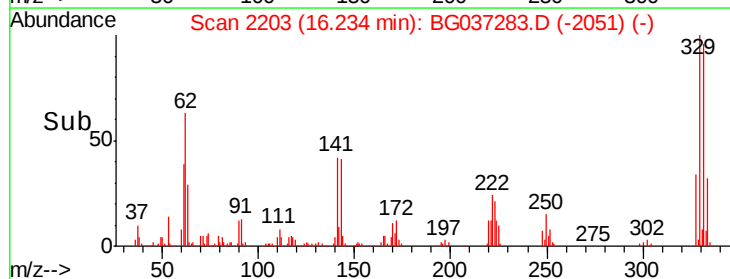
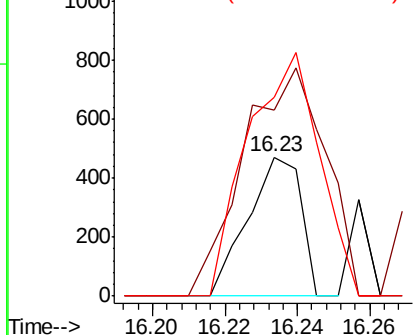


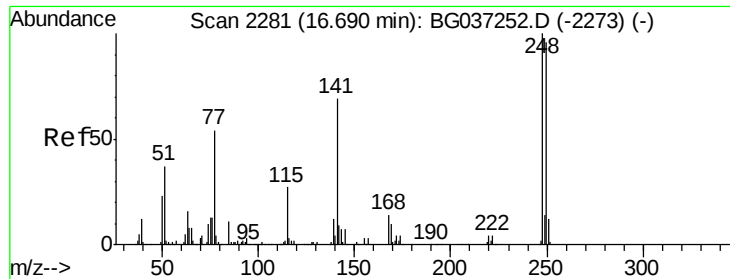
#65  
4,6-Dinitro-2-methylphenol  
Concen: 6.255 ng  
RT: 16.23 min Scan# 2203  
Delta R.T. 0.36 min  
Lab File: BG037283.D  
Acq: 12 Oct 2018 9:04

Tgt Ion:198 Resp: 477  
Ion Ratio Lower Upper  
198 100  
51 29.7 22.7 62.7  
105 31.7 19.7 59.7



Abundance Ion 198.00 (197.70 to 198.70): E  
Ion 51.00 (50.70 to 51.70): BGC  
Ion 105.00 (104.70 to 105.70): E

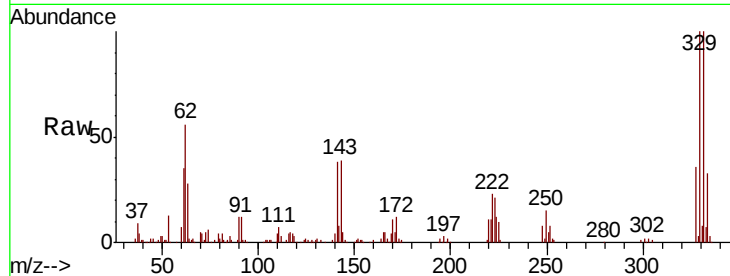




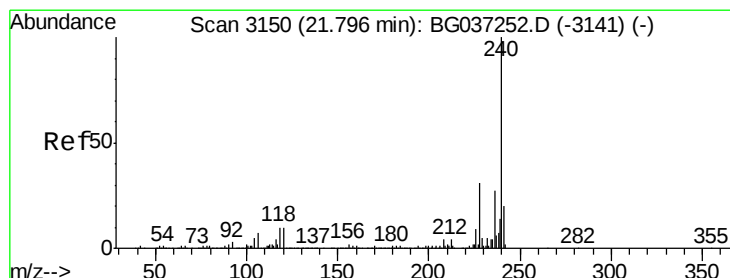
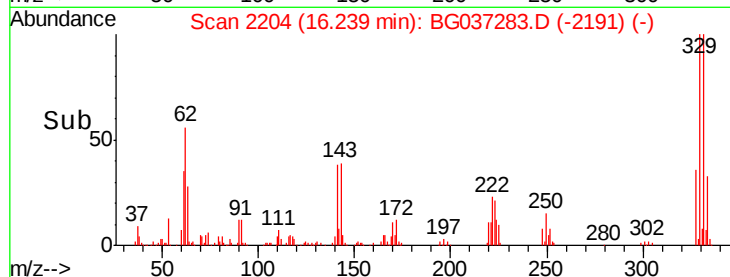
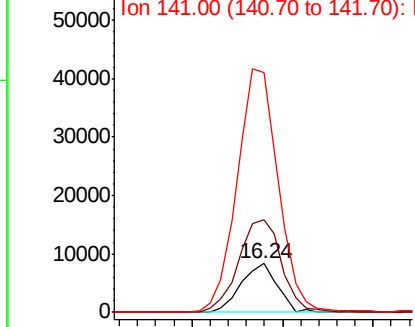
#67  
4-Bromophenyl-phenylether  
Concen: 2.512 ng  
RT: 16.24 min Scan# 2204  
Delta R.T. -0.45 min  
Lab File: BG037283.D  
Acq: 12 Oct 2018 9:04

Instrument :  
BNA\_G  
ClientSampled :

Tot Ion:248 Resp: 11691  
Ion Ratio Lower Upper  
248 100  
250 189.7 77.0 115.6#  
141 376.7 55.5 83.3#

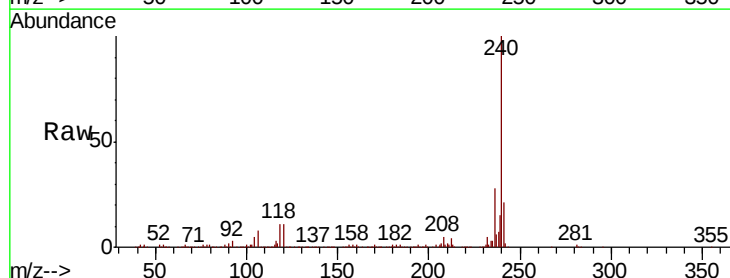


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

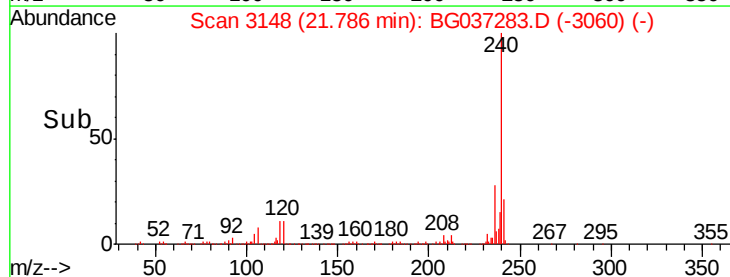
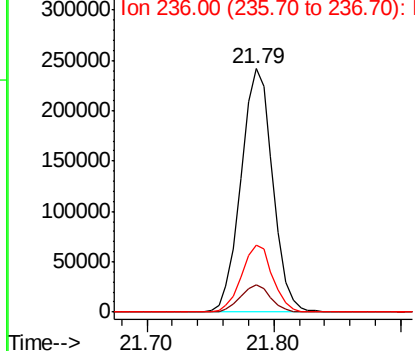


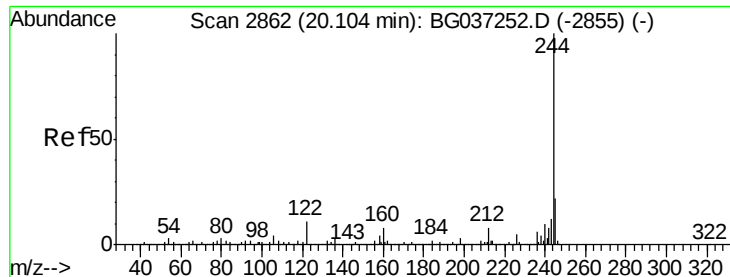
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.79 min Scan# 3148  
Delta R.T. -0.01 min  
Lab File: BG037283.D  
Acq: 12 Oct 2018 9:04

Tgt Ion:240 Resp: 418349  
Ion Ratio Lower Upper  
240 100  
120 11.4 8.1 12.1  
236 27.7 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: 87.811 ng

RT: 20.11 min Scan# 2862

Delta R.T. 0.00 min

Lab File: BG037283.D

Acq: 12 Oct 2018 9:04

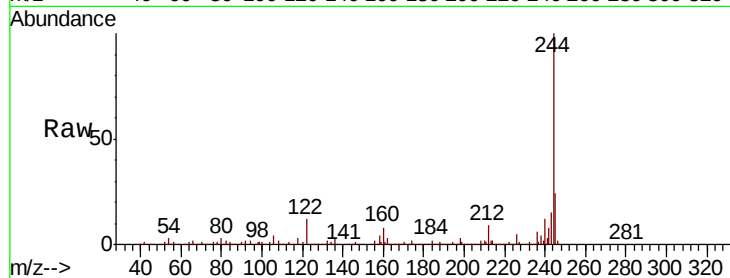
Instrument :

BNA\_G

ClientSampleId :

Tot Ion:244 Resp: 1749529

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 9.1   | 6.5   | 9.7   |
| 122 | 11.6  | 9.0   | 13.4  |

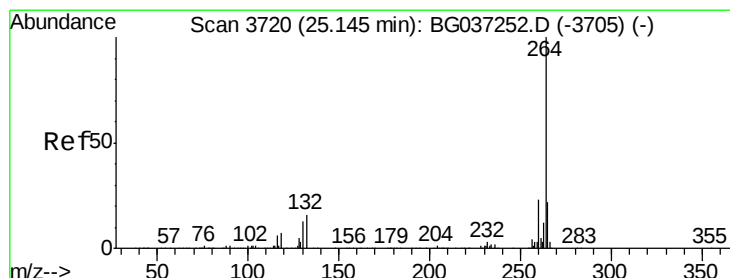
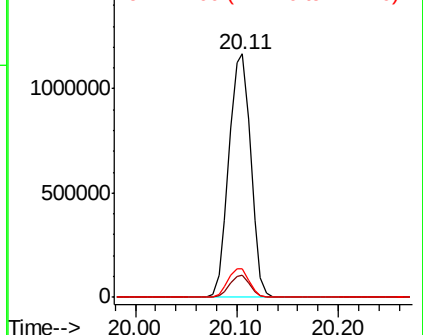
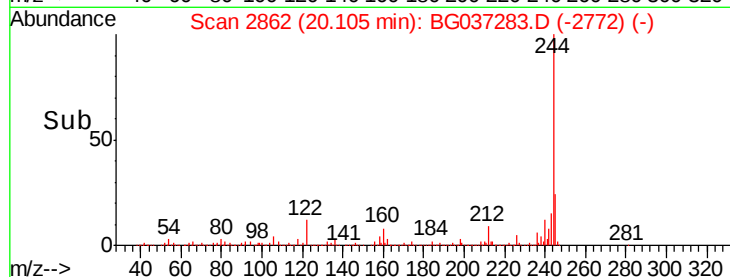


Abundance

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: 25.13 min Scan# 3718

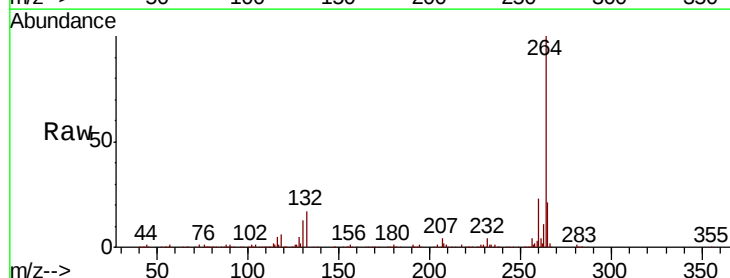
Delta R.T. -0.01 min

Lab File: BG037283.D

Acq: 12 Oct 2018 9:04

Tgt Ion:264 Resp: 420413

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.0  | 18.2  | 27.4  |
| 265 | 21.0  | 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

