

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG101118\  
 Data File : BG037267.D  
 Acq On : 11 Oct 2018 21:17  
 Operator : JU/SJ  
 Sample : J5366-03  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 RBR200035

Quant Time: Oct 12 06:51:02 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

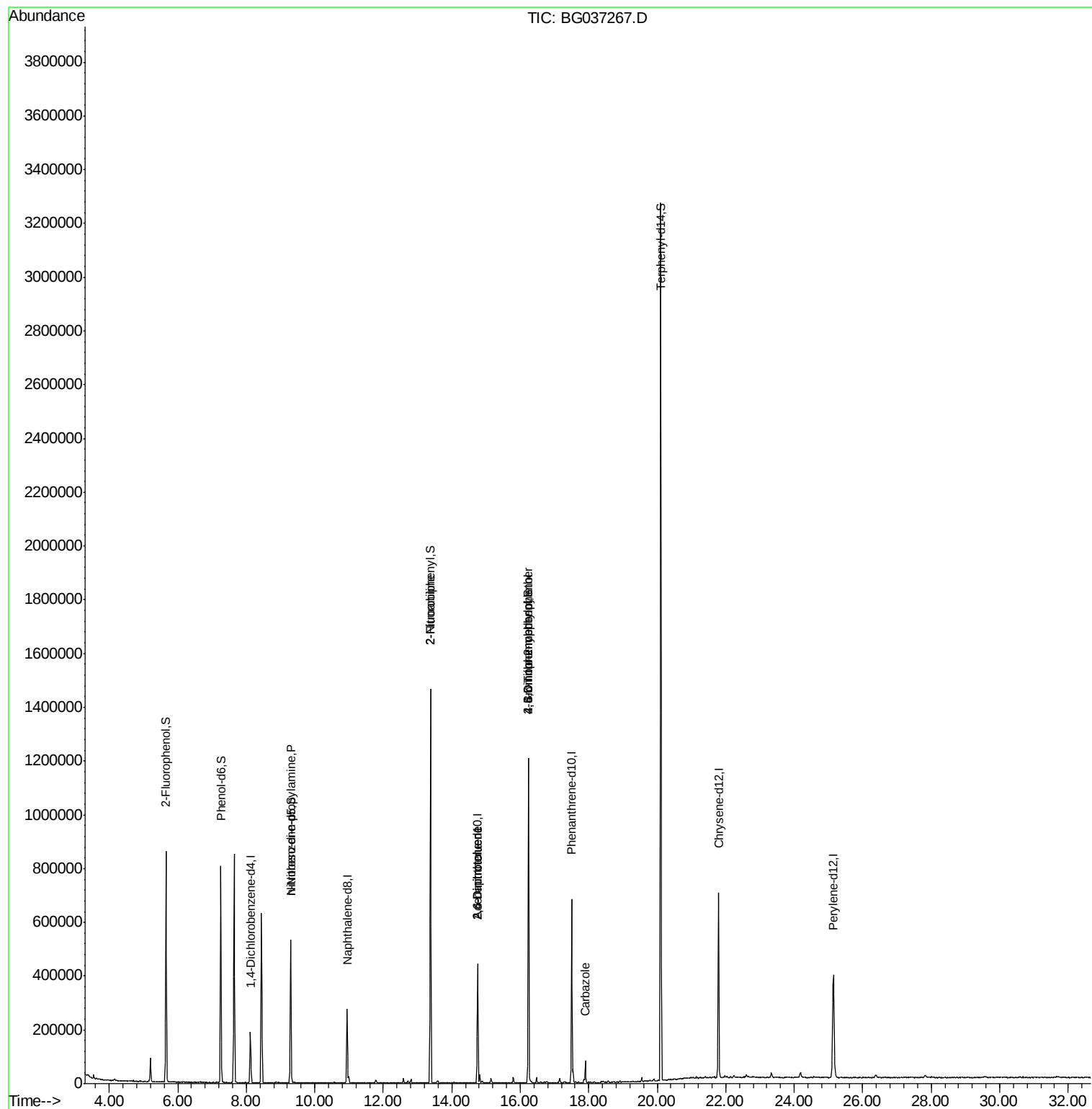
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.12  | 152  | 56439    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.94 | 136  | 243404   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.75 | 164  | 163038   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.50 | 188  | 422585   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.79 | 240  | 432278   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 25.14 | 264  | 431448   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.66  | 112  | 379696   | 118.40 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.26  | 99   | 502665   | 103.27 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.30  | 82   | 321874   | 86.94  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.24 | 330  | 214060   | 133.88 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.38 | 172  | 807810   | 74.41  | ng    | 0.00     |
| 79) Terphenyl-d14              | 20.10 | 244  | 1522202  | 73.94  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.30  | 70   | 40965    | 11.116 | ng    | # 75     |
| 48) 2-Nitroaniline             | 13.38 | 65   | 1464     | 6.224  | ng    | # 10     |
| 51) 2,6-Dinitrotoluene         | 14.75 | 165  | 21094    | 12.437 | ng    | # 25     |
| 57) 2,4-Dinitrotoluene         | 14.75 | 165  | 21094    | 11.285 | ng    | # 24     |
| 65) 4,6-Dinitro-2-methylphenol | 16.23 | 198  | 158      | 6.050  | ng    | 84       |
| 67) 4-Bromophenyl-phenylether  | 16.24 | 248  | 16053    | 3.520  | ng    | # 1      |
| 73) Carbazole                  | 17.90 | 167  | 55138    | 2.542  | ng    | 97       |

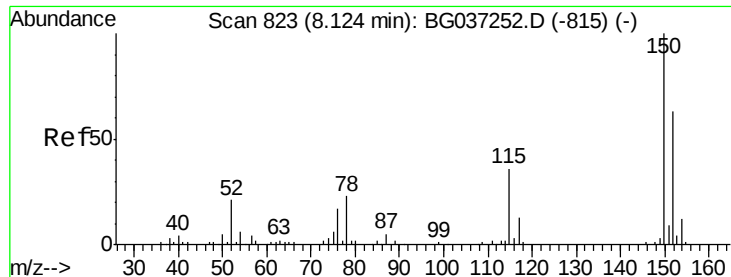
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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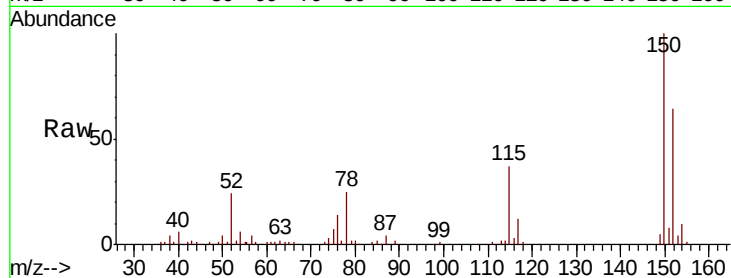


#1

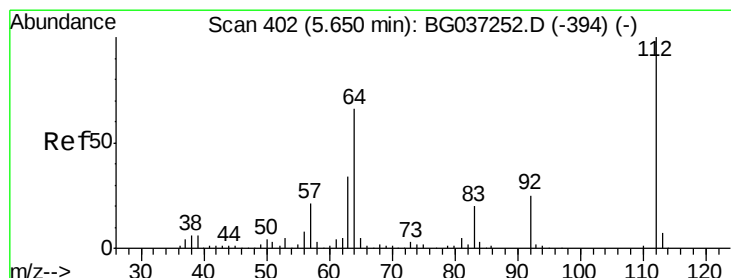
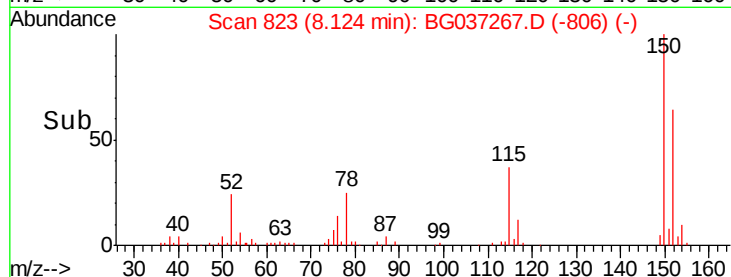
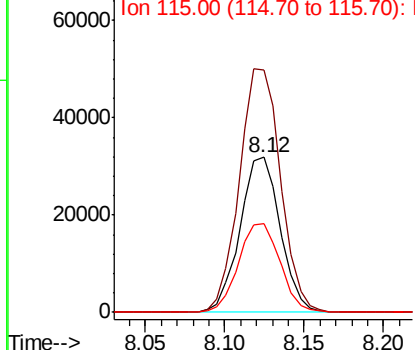
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.12 min Scan# 823  
Delta R.T. 0.00 min  
Lab File: BG037267.D  
Acq: 11 Oct 2018 21:17

Instrument :  
BNA\_G  
ClientSampleId :  
RBR200035

Tgt Ion:152 Resp: 56439  
Ion Ratio Lower Upper  
152 100  
150 156.0 126.0 189.0  
115 57.6 45.5 68.3



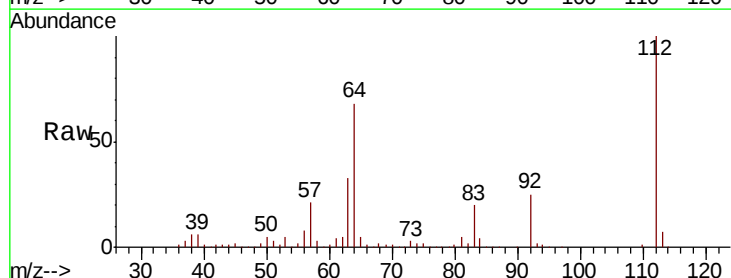
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



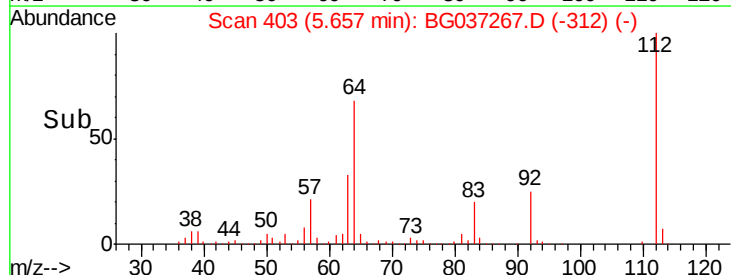
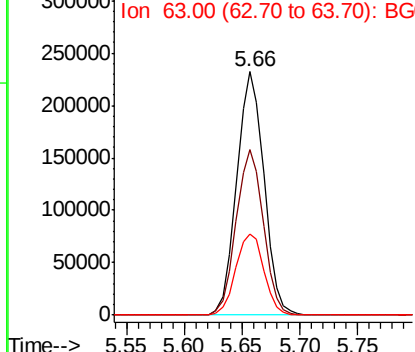
#5

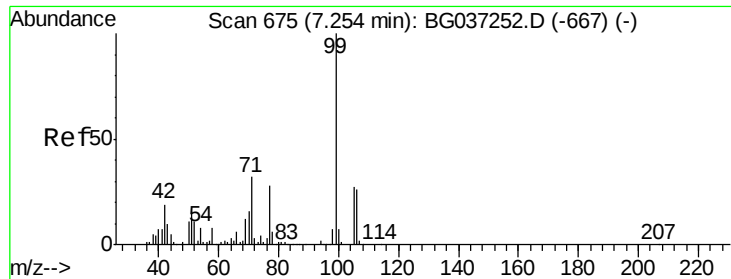
2-Fluorophenol  
Concen: 118.398 ng  
RT: 5.66 min Scan# 403  
Delta R.T. 0.01 min  
Lab File: BG037267.D  
Acq: 11 Oct 2018 21:17

Tgt Ion:112 Resp: 379696  
Ion Ratio Lower Upper  
112 100  
64 67.9 53.1 79.7  
63 33.5 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: 103.267 ng

RT: 7.26 min Scan# 676

Delta R.T. 0.01 min

Lab File: BG037267.D

Acq: 11 Oct 2018 21:17

Instrument :

BNA\_G

ClientSampleId :

RBR200035

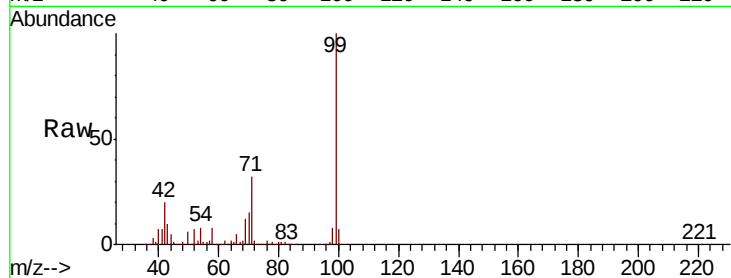
Tgt Ion: 99 Resp: 502665

Ion Ratio Lower Upper

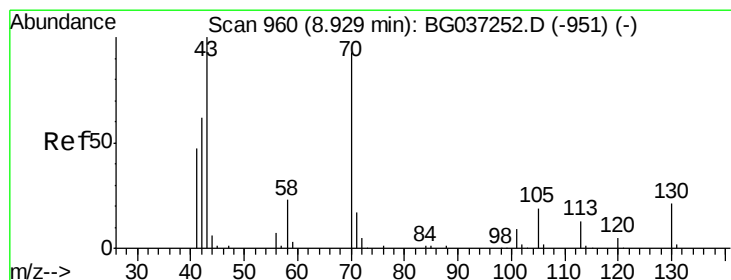
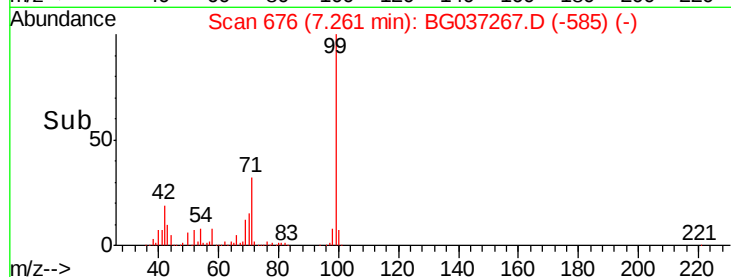
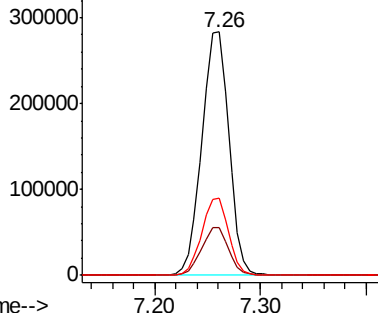
99 100

42 19.6 15.0 22.4

71 31.5 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: 11.116 ng

RT: 9.30 min Scan# 1023

Delta R.T. 0.37 min

Lab File: BG037267.D

Acq: 11 Oct 2018 21:17

Tgt Ion: 70 Resp: 40965

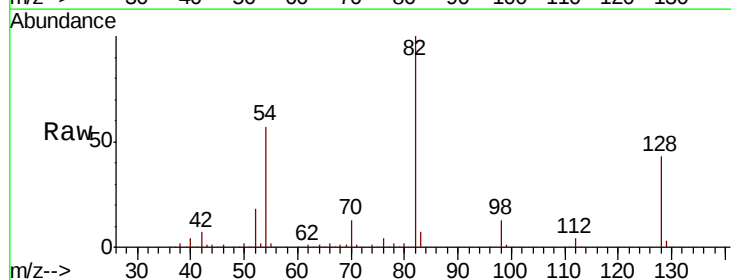
Ion Ratio Lower Upper

70 100

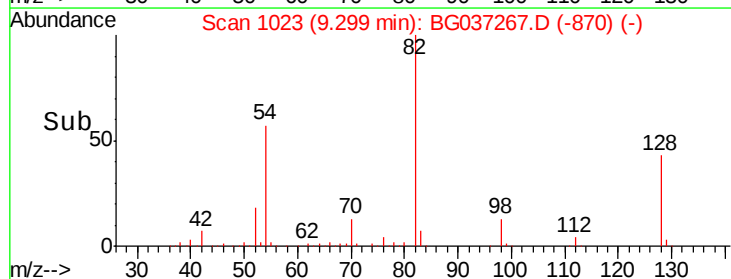
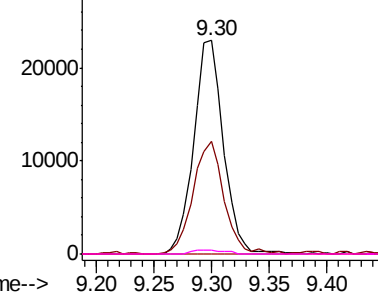
42 52.6 53.9 80.9#

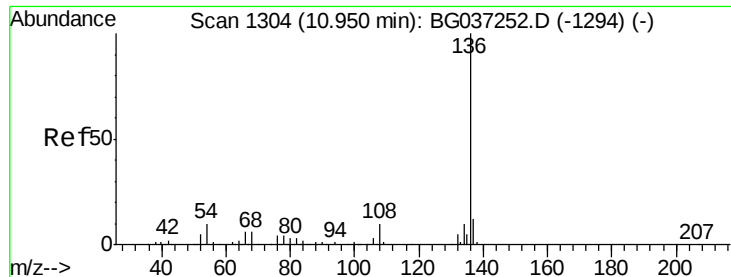
101 0.0 8.2 12.2#

130 1.8 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

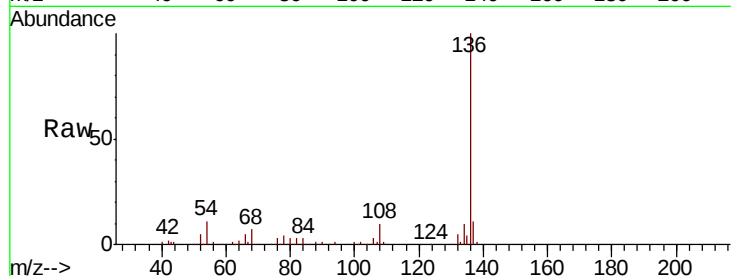




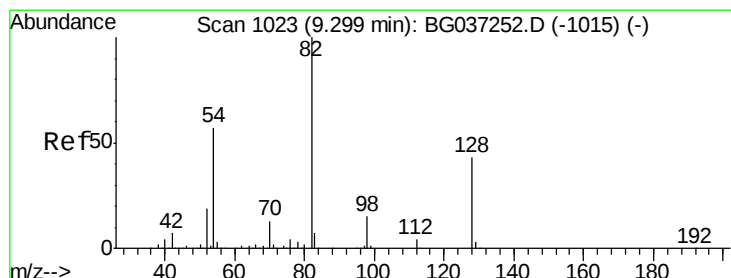
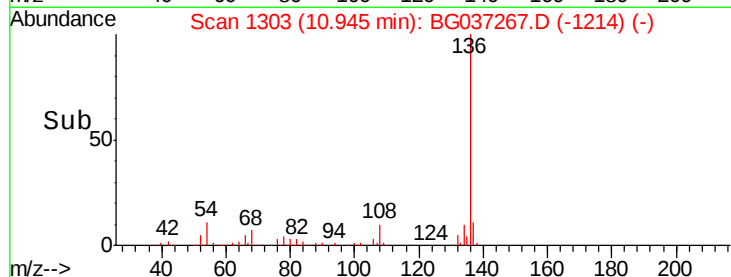
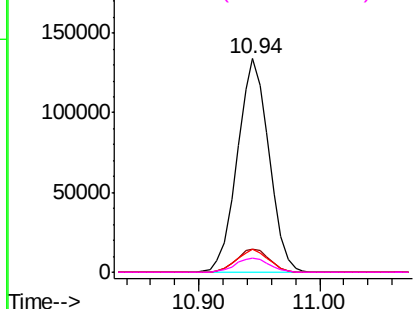
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.94 min Scan# 1303  
Delta R.T. -0.01 min  
Lab File: BG037267.D  
Acq: 11 Oct 2018 21:17

Instrument :  
BNA\_G  
ClientSampleId :  
RBR200035

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 243404 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.9  | 9.6   | 14.4   |
| 54       | 10.6  | 7.9   | 11.9   |
| 68       | 6.6   | 4.8   | 7.2    |

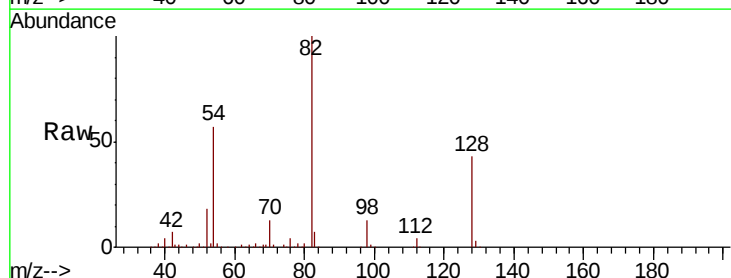


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

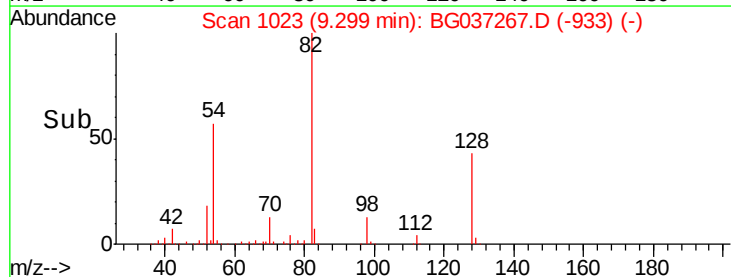
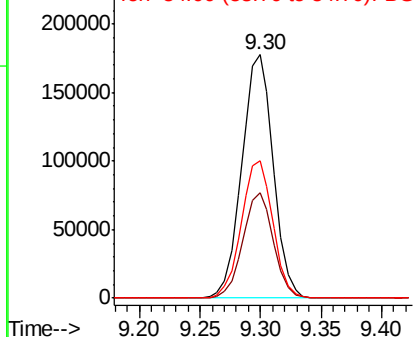


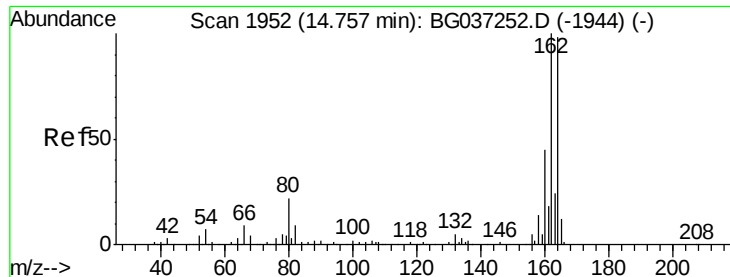
#23  
Nitrobenzene-d5  
Concen: 86.940 ng  
RT: 9.30 min Scan# 1023  
Delta R.T. 0.00 min  
Lab File: BG037267.D  
Acq: 11 Oct 2018 21:17

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 321874 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 43.1  | 34.6  | 51.8   |
| 54       | 56.6  | 45.3  | 67.9   |



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: 14.75 min Scan# 1951

Delta R.T. -0.01 min

Lab File: BG037267.D

Acq: 11 Oct 2018 21:17

Instrument :

BNA\_G

ClientSampleId :

RBR200035

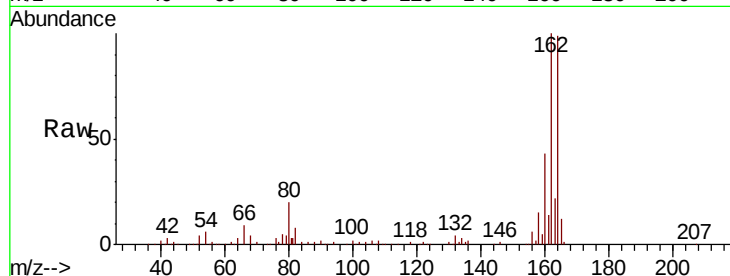
Tgt Ion:164 Resp: 163038

Ion Ratio Lower Upper

164 100

162 101.4 81.3 121.9

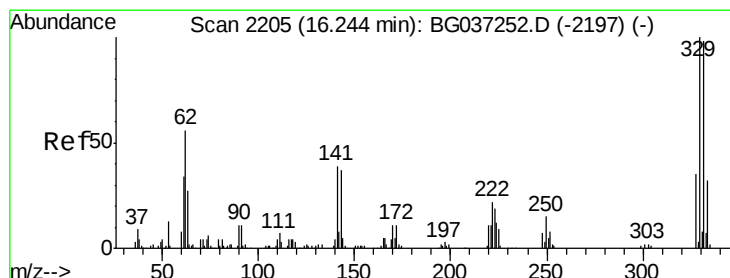
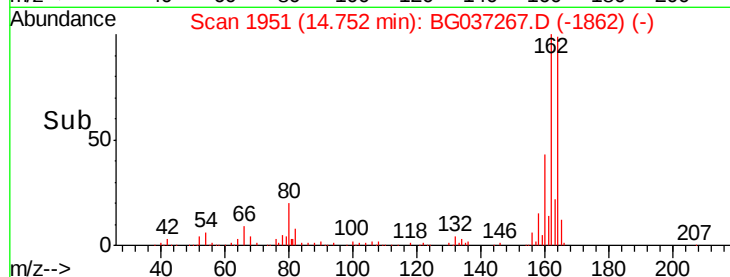
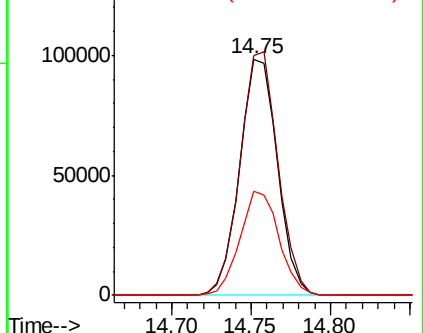
160 44.0 36.3 54.5



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: 133.876 ng

RT: 16.24 min Scan# 2204

Delta R.T. -0.01 min

Lab File: BG037267.D

Acq: 11 Oct 2018 21:17

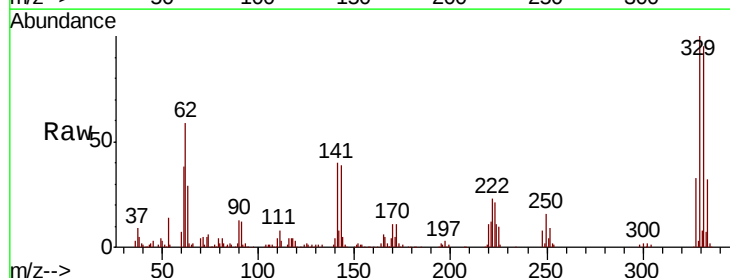
Tgt Ion:330 Resp: 214060

Ion Ratio Lower Upper

330 100

332 95.7 78.4 117.6

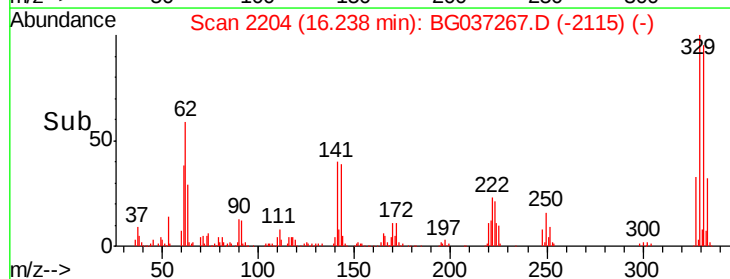
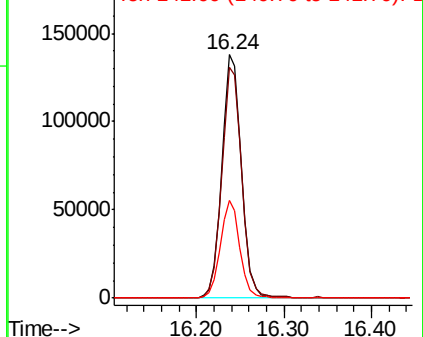
141 39.3 32.2 48.2

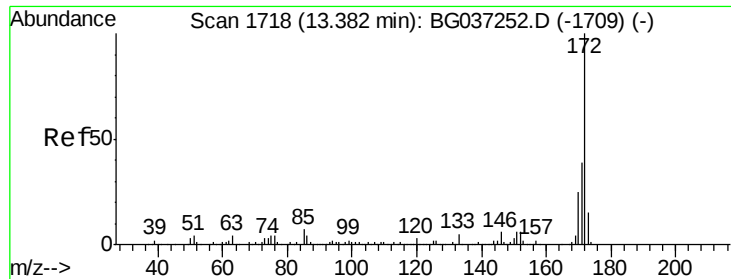


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#45

2-Fluorobiphenyl

Concen: 74.408 ng

RT: 13.38 min Scan# 1718

Delta R.T. 0.00 min

Lab File: BG037267.D

Acq: 11 Oct 2018 21:17

Instrument :

BNA\_G

ClientSampleId :

RBR200035

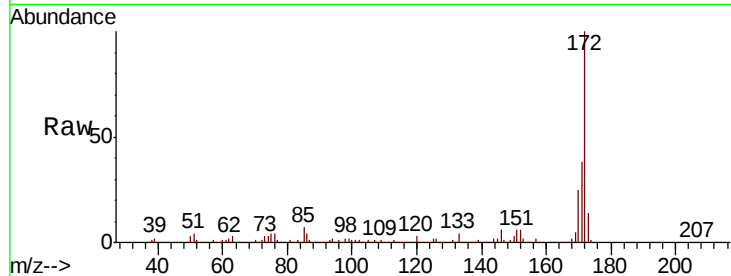
Tgt Ion:172 Resp: 807810

Ion Ratio Lower Upper

172 100

171 38.0 31.0 46.4

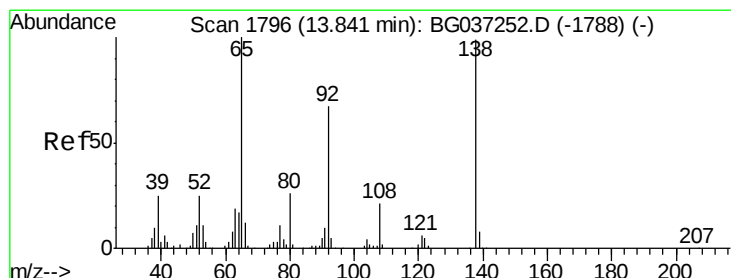
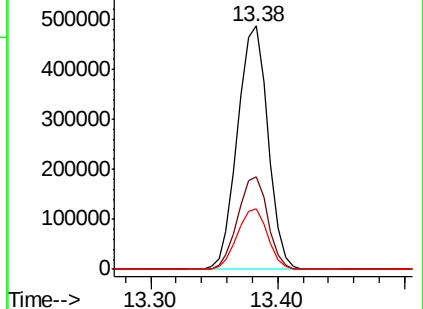
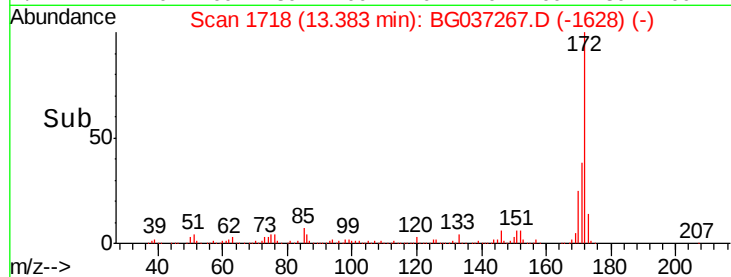
170 24.8 20.2 30.2



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: 6.224 ng

RT: 13.38 min Scan# 1717

Delta R.T. -0.46 min

Lab File: BG037267.D

Acq: 11 Oct 2018 21:17

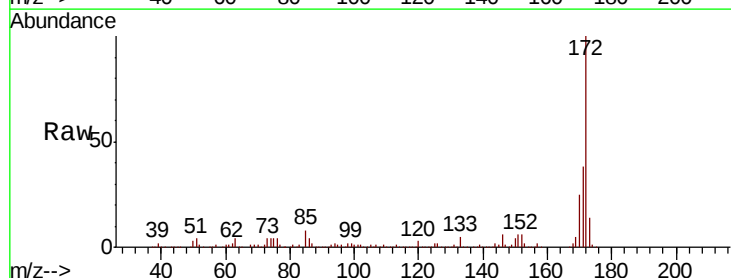
Tgt Ion: 65 Resp: 1464

Ion Ratio Lower Upper

65 100

92 144.8 53.2 79.8#

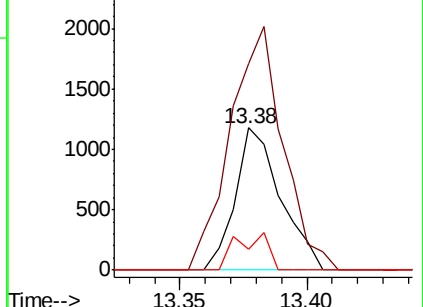
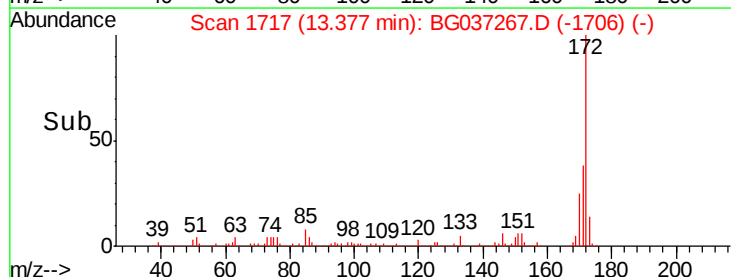
138 14.3 79.3 118.9#

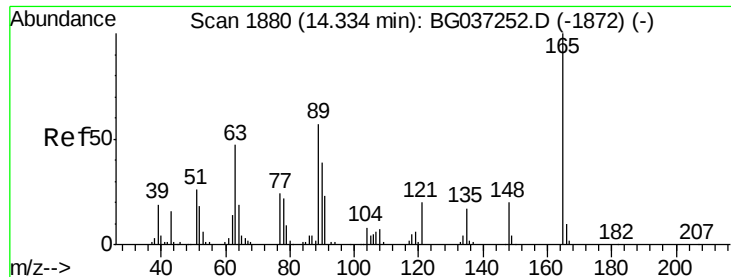


Abundance Ion 65.00 (64.70 to 65.70): BGC

Ion 92.00 (91.70 to 92.70): BGC

Ion 138.00 (137.70 to 138.70): E

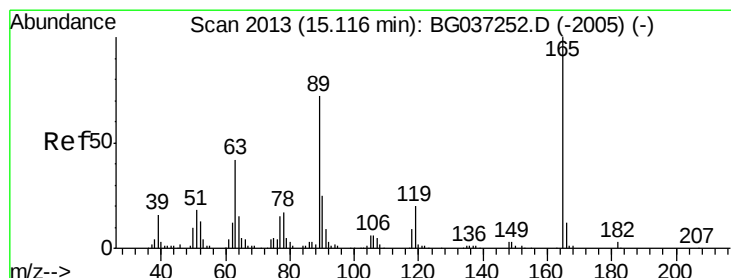
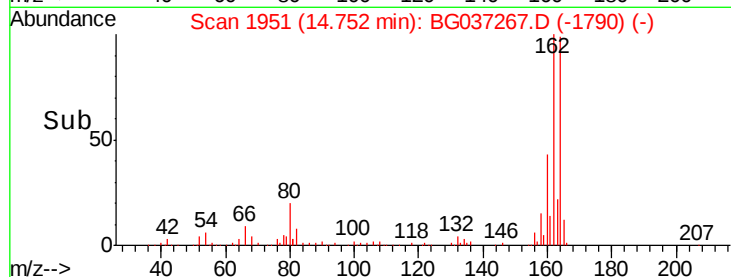
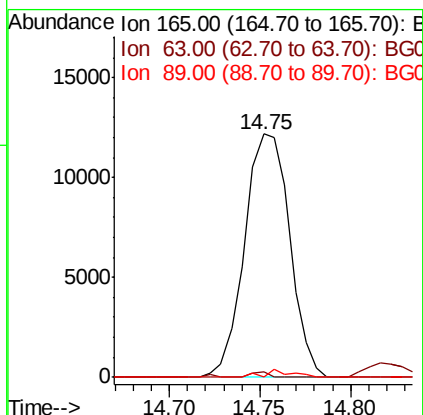
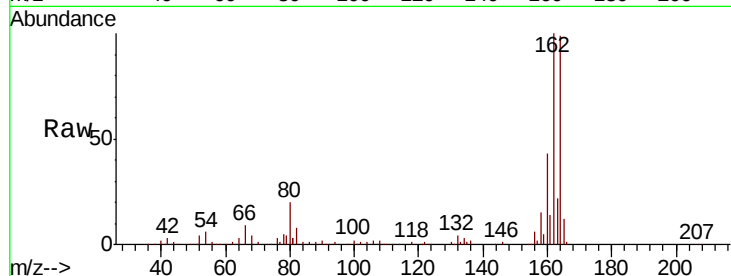




#51  
 2,6-Dinitrotoluene  
 Concen: 12.437 ng  
 RT: 14.75 min Scan# 1951  
 Delta R.T. 0.42 min  
 Lab File: BG037267.D  
 Acq: 11 Oct 2018 21:17

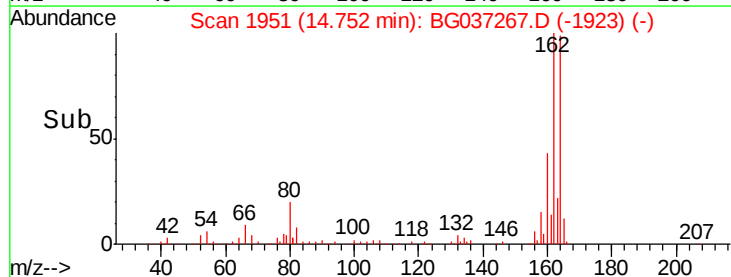
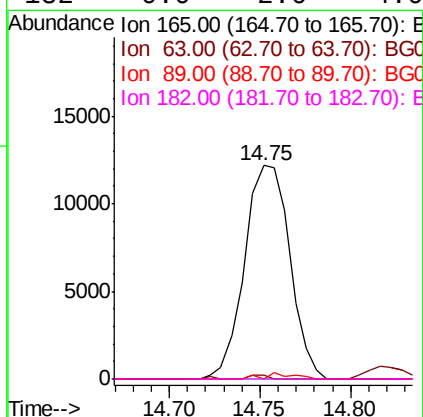
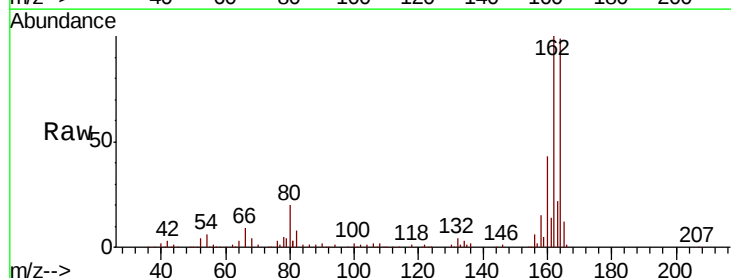
Instrument :  
 BNA\_G  
 ClientSampleId :  
 RBR200035

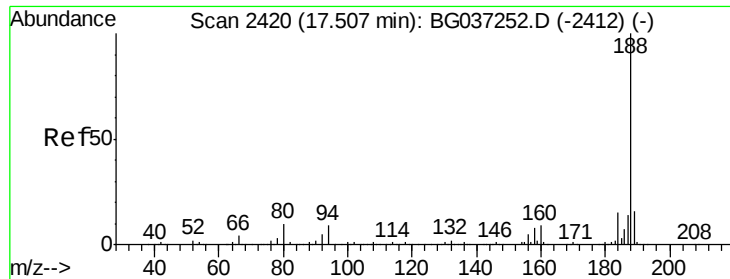
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 2.1   | 43.4  | 65.2# |
| 89      | 0.0   | 45.8  | 68.6# |



#57  
 2,4-Dinitrotoluene  
 Concen: 11.285 ng  
 RT: 14.75 min Scan# 1951  
 Delta R.T. -0.36 min  
 Lab File: BG037267.D  
 Acq: 11 Oct 2018 21:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 2.1   | 33.4  | 50.0# |
| 89      | 0.0   | 57.2  | 85.8# |
| 182     | 0.0   | 2.6   | 4.0#  |

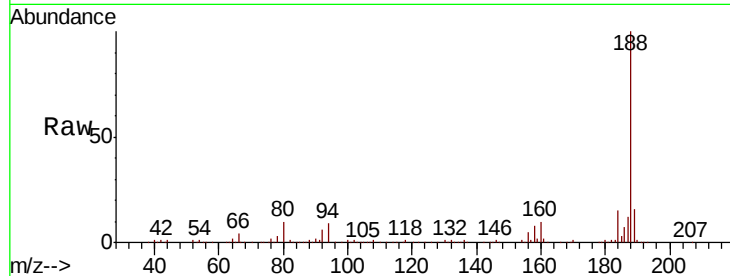




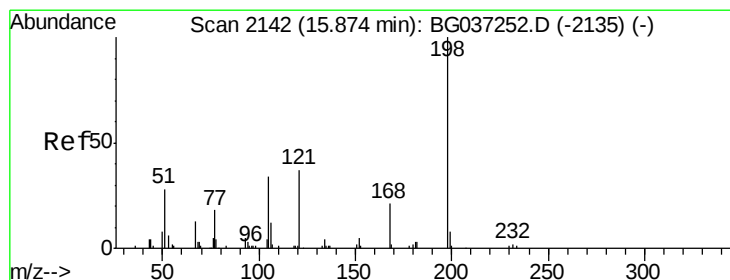
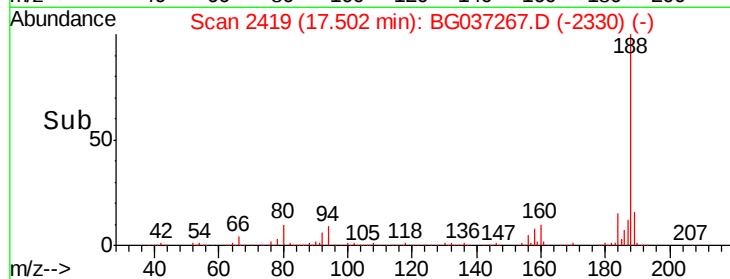
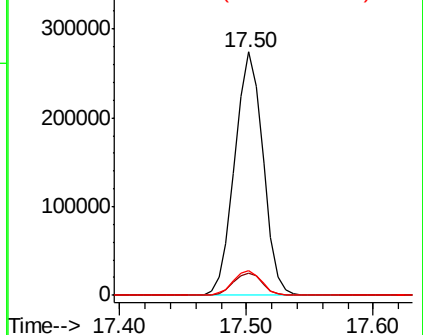
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.50 min Scan# 2419  
Delta R.T. -0.01 min  
Lab File: BG037267.D  
Acq: 11 Oct 2018 21:17

Instrument :  
BNA\_G  
ClientSampleId :  
RBR200035

Tgt Ion:188 Resp: 422585  
Ion Ratio Lower Upper  
188 100  
94 9.1 7.2 10.8  
80 10.1 7.7 11.5

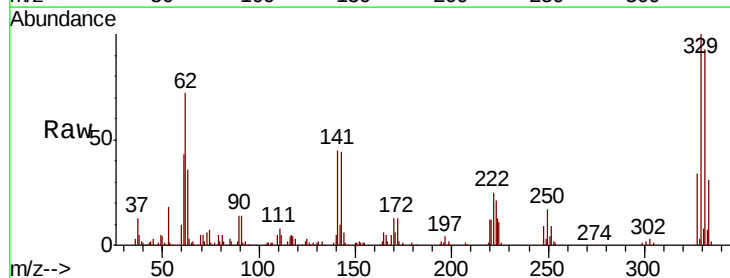


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BGC  
Ion 80.00 (79.70 to 80.70): BGC

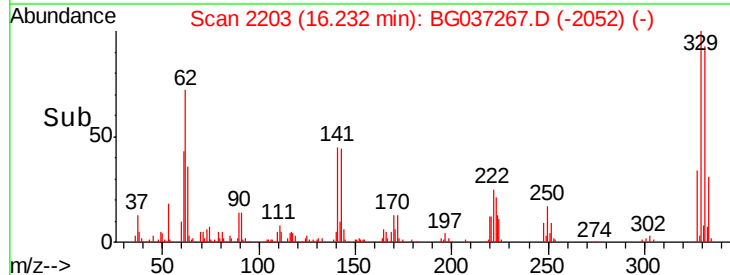
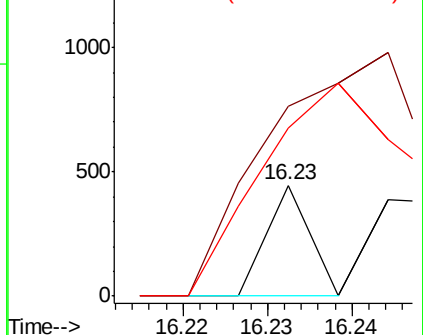


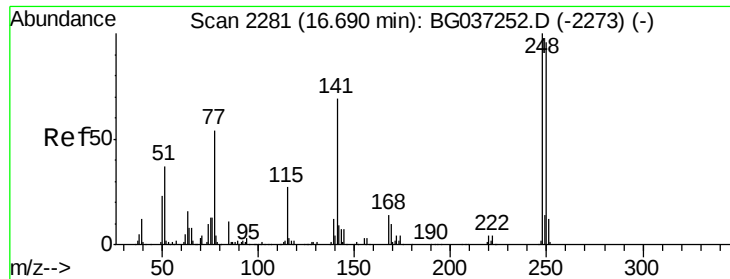
#65  
4,6-Dinitro-2-methylphenol  
Concen: 6.050 ng  
RT: 16.23 min Scan# 2203  
Delta R.T. 0.36 min  
Lab File: BG037267.D  
Acq: 11 Oct 2018 21:17

Tgt Ion:198 Resp: 158  
Ion Ratio Lower Upper  
198 100  
51 33.3 22.7 62.7  
105 29.5 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

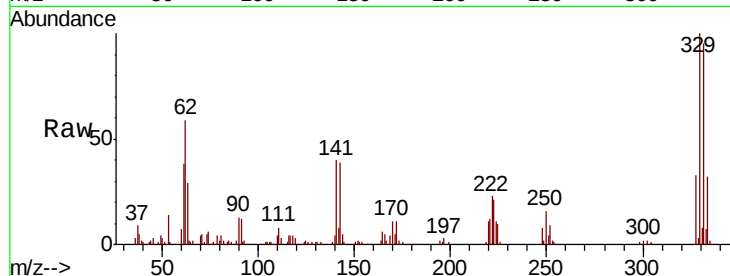




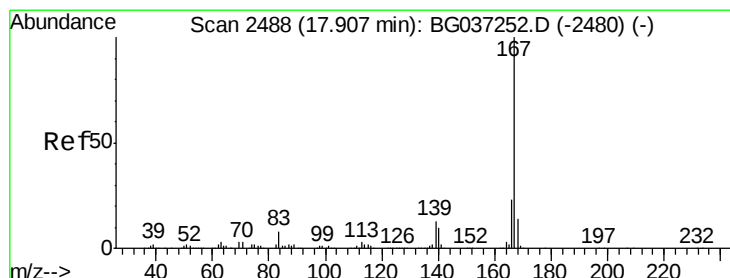
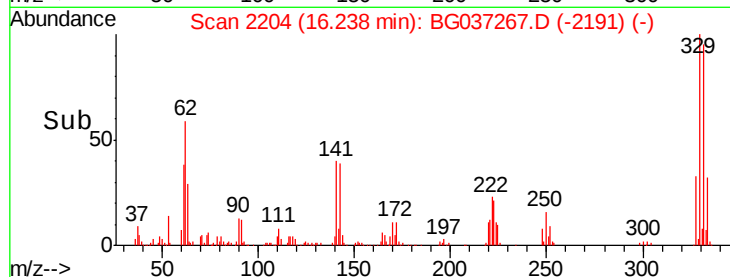
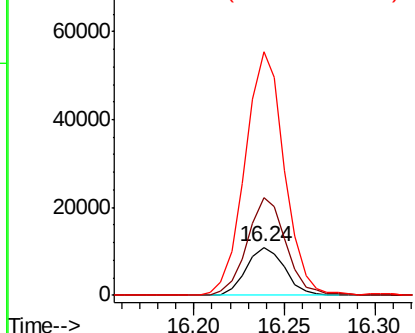
#67  
 4-Bromophenyl-phenylether  
 Concen: 3.520 ng  
 RT: 16.24 min Scan# 2204  
 Delta R.T. -0.45 min  
 Lab File: BG037267.D  
 Acq: 11 Oct 2018 21:17

Instrument :  
 BNA\_G  
 ClientSampleId :  
 RBR200035

Tgt Ion:248 Resp: 16053  
 Ion Ratio Lower Upper  
 248 100  
 250 202.2 77.0 115.6#  
 141 398.4 55.5 83.3#

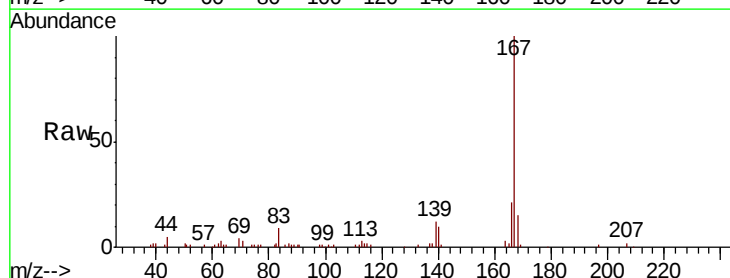


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

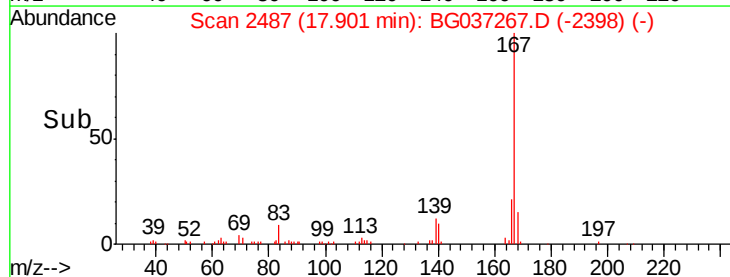
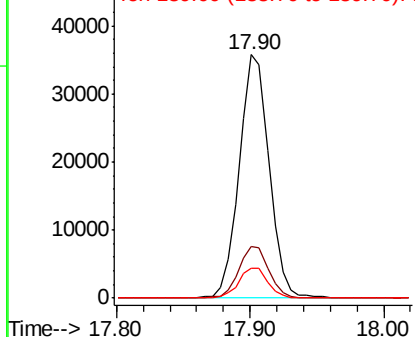


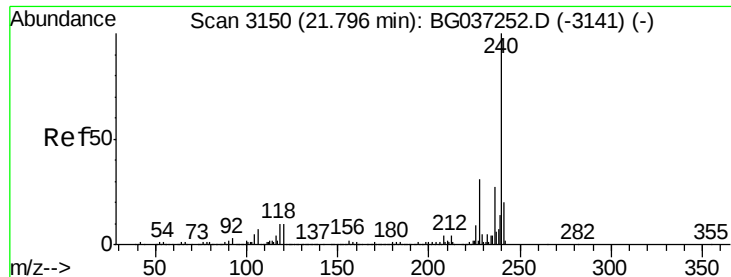
#73  
 Carbazole  
 Concen: 2.542 ng  
 RT: 17.90 min Scan# 2487  
 Delta R.T. -0.01 min  
 Lab File: BG037267.D  
 Acq: 11 Oct 2018 21:17

Tgt Ion:167 Resp: 55138  
 Ion Ratio Lower Upper  
 167 100  
 166 21.3 18.3 27.5  
 139 12.1 10.5 15.7



Abundance Ion 167.00 (166.70 to 167.70): E  
 Ion 166.00 (165.70 to 166.70): E  
 Ion 139.00 (138.70 to 139.70): E

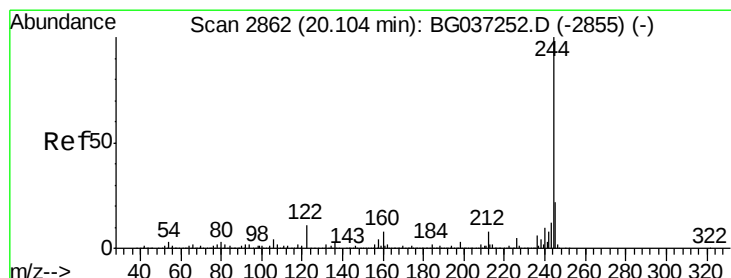
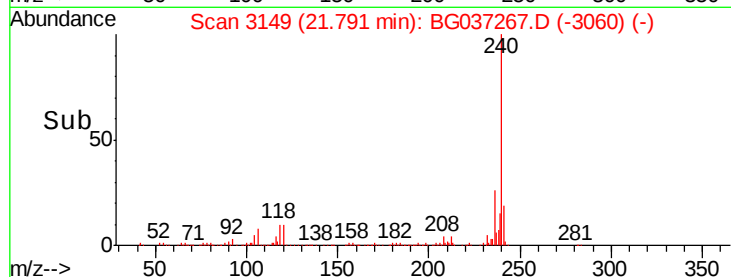
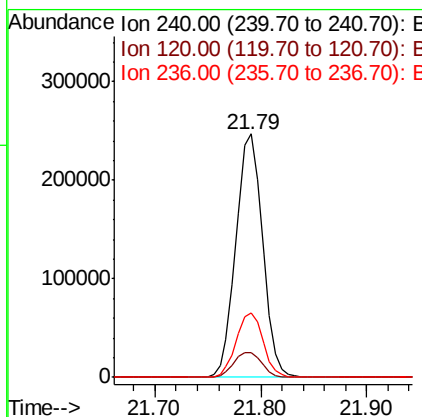
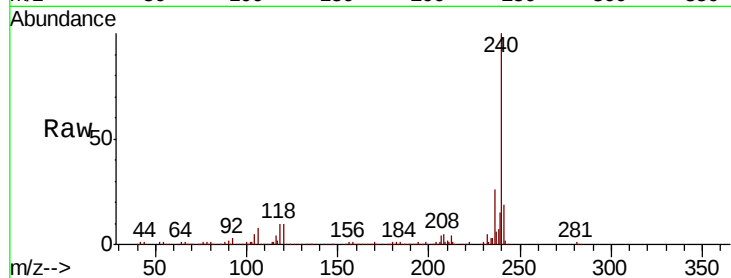




#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.79 min Scan# 3149  
 Delta R.T. -0.01 min  
 Lab File: BG037267.D  
 Acq: 11 Oct 2018 21:17

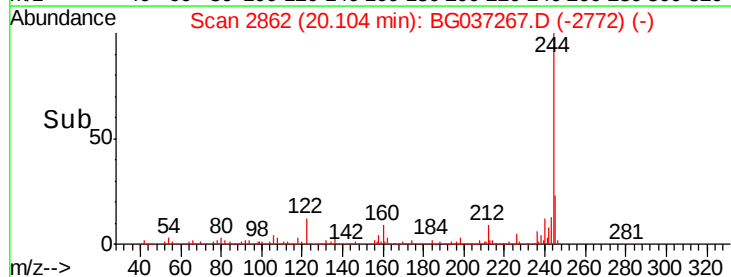
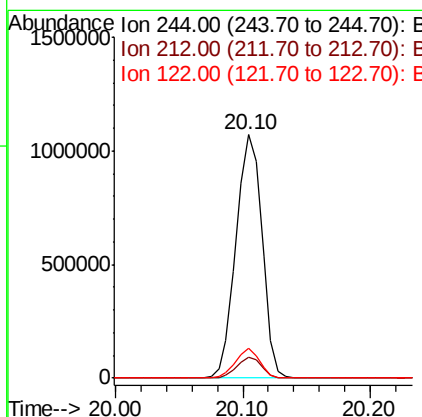
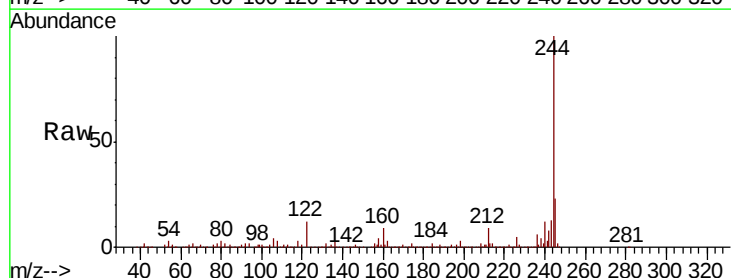
Instrument :  
 BNA\_G  
 ClientSampleId :  
 RBR200035

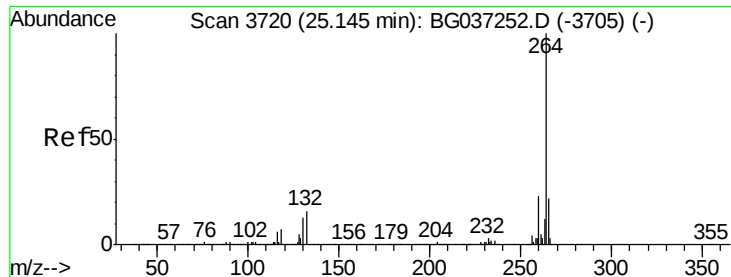
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 10.3  | 8.1   | 12.1  |
| 236     | 26.2  | 21.4  | 32.0  |



#79  
 Terphenyl-d14  
 Concen: 73.940 ng  
 RT: 20.10 min Scan# 2862  
 Delta R.T. 0.00 min  
 Lab File: BG037267.D  
 Acq: 11 Oct 2018 21:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 8.6   | 6.5   | 9.7   |
| 122     | 12.1  | 9.0   | 13.4  |





#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 25.14 min Scan# 3719  
Delta R.T. -0.01 min  
Lab File: BG037267.D  
Acq: 11 Oct 2018 21:17

Instrument :  
BNA\_G  
ClientSampleId :  
RBR200035

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 264   | Resp: | 431448 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 23.0  | 18.2  | 27.4   |
| 265      | 21.0  | 17.9  | 26.9   |

