

Data Path : Z:\HPCHEM1\BNA G\DATA\BG041618\  
 Data File : BG033818.D  
 Acq On : 16 Apr 2018 16:13  
 Operator : SJ/JU  
 Sample : PB108223BL  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Apr 16 17:00:27 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG031918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 16 11:44:01 2018  
 Response via : Initial Calibration

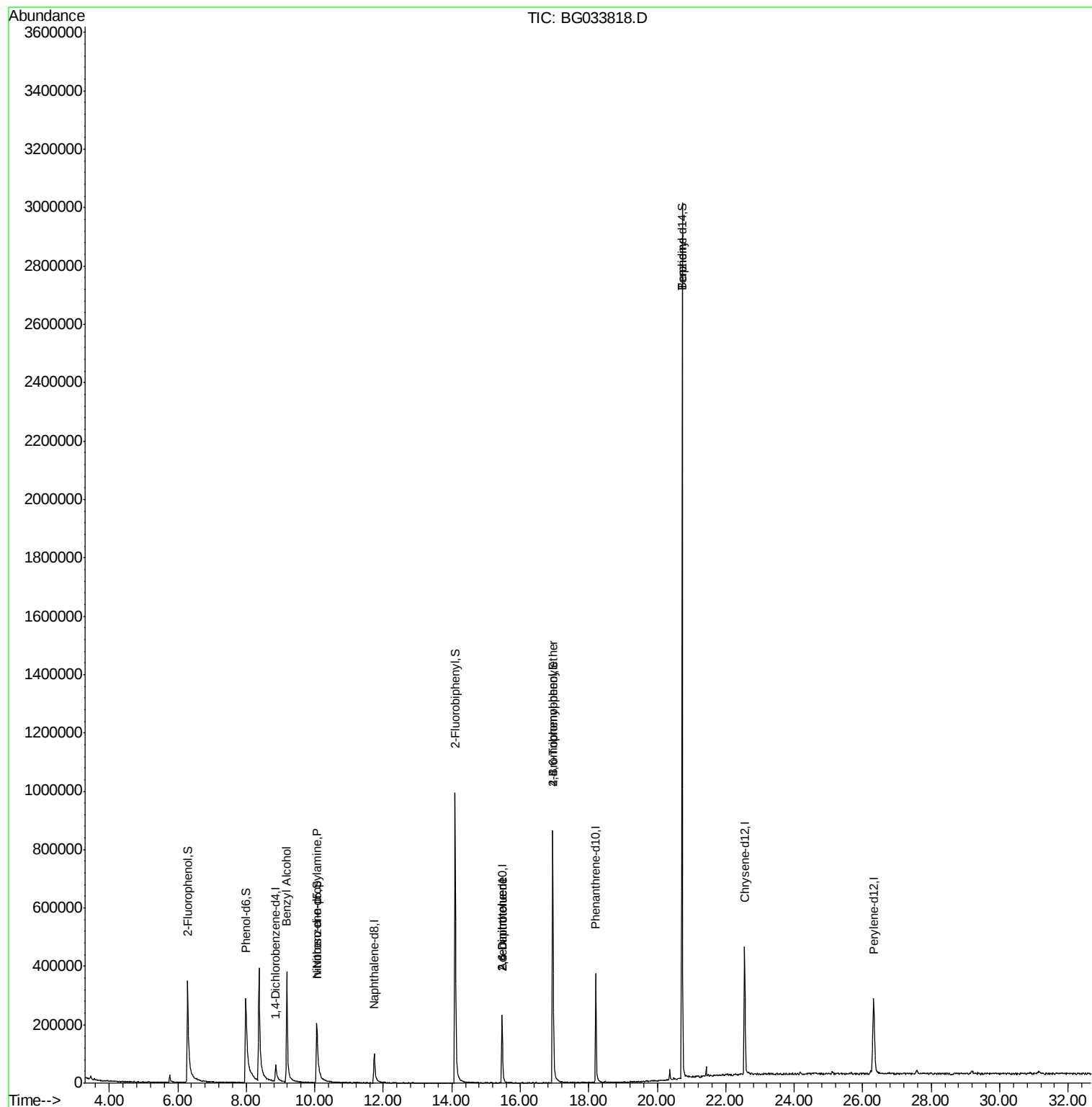
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.85  | 152  | 28863    | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8             | 11.74 | 136  | 133534   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 15.47 | 164  | 105363   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 18.21 | 188  | 301232   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 22.55 | 240  | 353925   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 26.32 | 264  | 376062   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 6.28  | 112  | 259742   | 168.74 | ng    | -0.01    |
| 7) Phenol-d6                   | 7.98  | 99   | 398261   | 150.58 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 10.06 | 82   | 258341   | 88.89  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 16.95 | 330  | 210647   | 133.67 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 14.10 | 172  | 689076   | 94.41  | ng    | 0.00     |
| 78) Terphenyl-d14              | 20.73 | 244  | 1527493  | 92.30  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 15) Benzyl Alcohol             | 9.19  | 79   | 4847     | 2.328  | ng    | # 56     |
| 19) n-Nitroso-di-n-propylamine | 10.06 | 70   | 31577    | 16.294 | ng    | # 80     |
| 50) 2,6-Dinitrotoluene         | 15.47 | 165  | 13043    | 6.957  | ng    | # 18     |
| 56) 2,4-Dinitrotoluene         | 15.47 | 165  | 13255    | 4.802  | ng    | # 16     |
| 66) 4-Bromophenyl-phenylether  | 16.95 | 248  | 16517    | 4.669  | ng    | # 1      |
| 76) Benzidine                  | 20.73 | 184  | 26563    | 2.768  | ng    | # 90     |

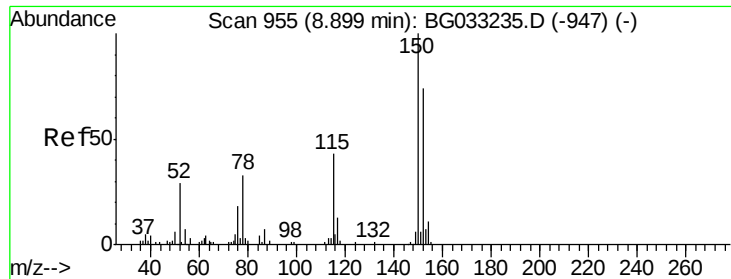
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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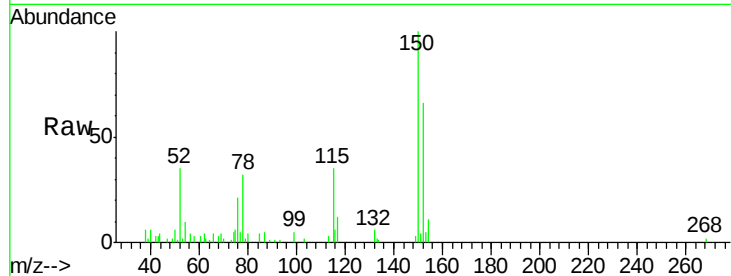


#1

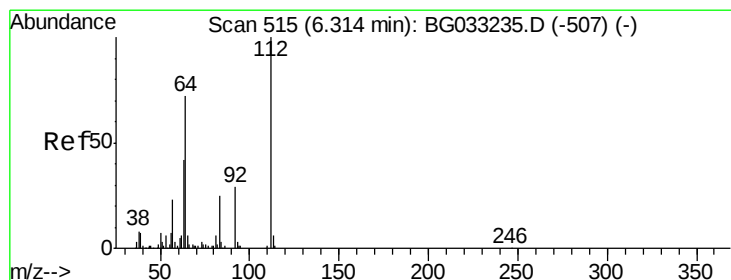
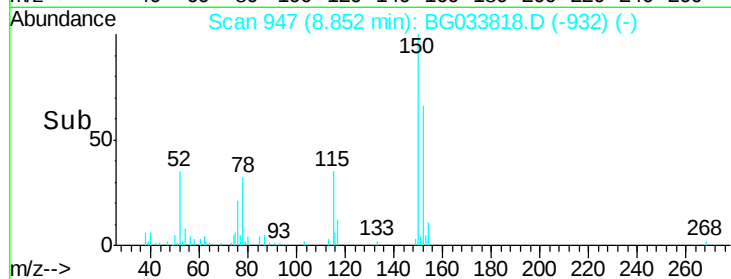
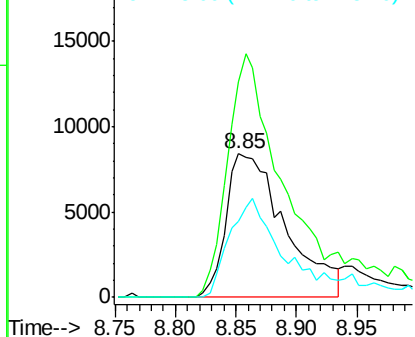
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.85 min Scan# 947  
Delta R.T. -0.01 min  
Lab File: BG033818.D  
Acq: 16 Apr 2018 16:13

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 150.5 | 126.6 | 189.8 |
| 115     | 53.3  | 53.0  | 79.4  |



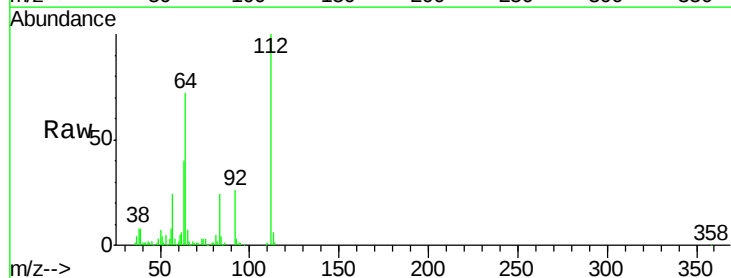
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



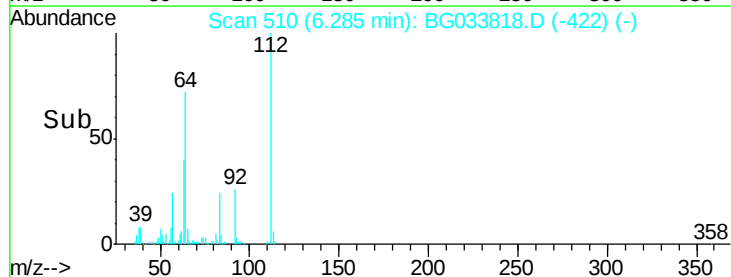
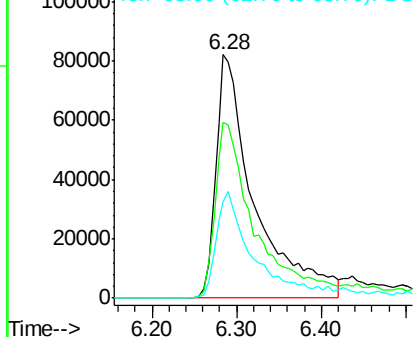
#5

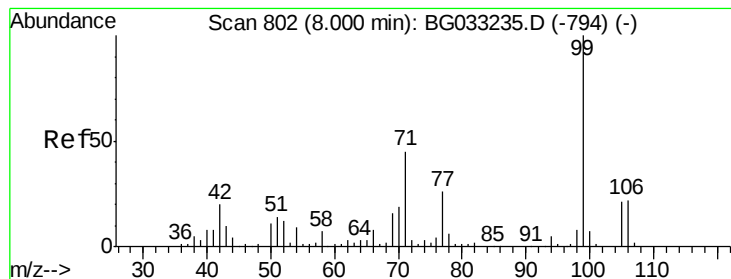
2-Fluorophenol  
Concen: 168.745 ng  
RT: 6.28 min Scan# 510  
Delta R.T. -0.01 min  
Lab File: BG033818.D  
Acq: 16 Apr 2018 16:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 72.0  | 56.3  | 84.5  |
| 63      | 39.7  | 30.1  | 45.1  |



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: 150.585 ng

RT: 7.98 min Scan# 799

Delta R.T. -0.01 min

Lab File: BG033818.D

Acq: 16 Apr 2018 16:13

Instrument :

BNA\_G

ClientSampleId :

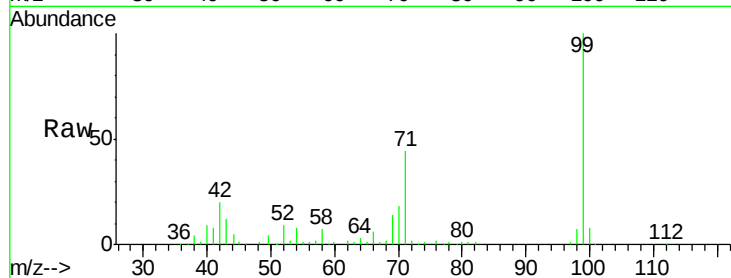
Tot Ion: 99 Resp: 398261

Ion Ratio Lower Upper

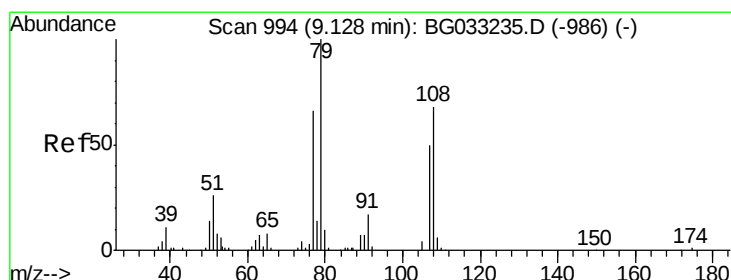
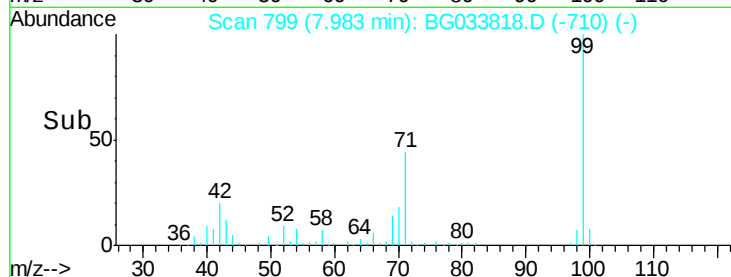
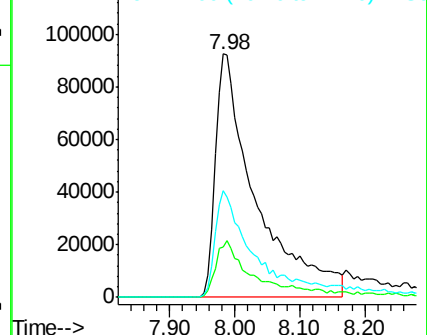
99 100

42 20.5 14.1 21.1

71 43.7 26.1 39.1#



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



#15

Benzyl Alcohol

Concen: 2.328 ng

RT: 9.19 min Scan# 1005

Delta R.T. 0.08 min

Lab File: BG033818.D

Acq: 16 Apr 2018 16:13

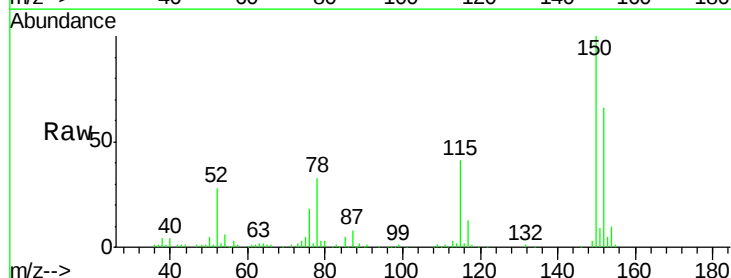
Tgt Ion: 79 Resp: 4847

Ion Ratio Lower Upper

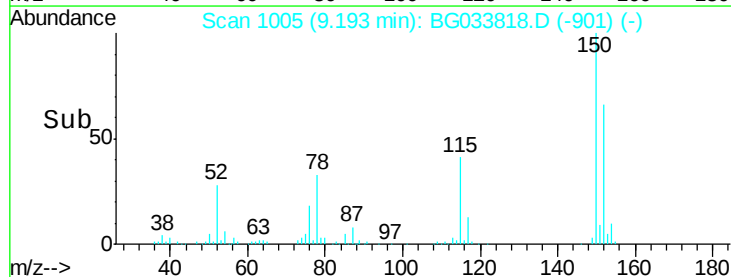
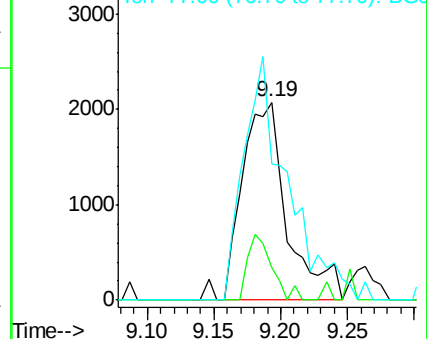
79 100

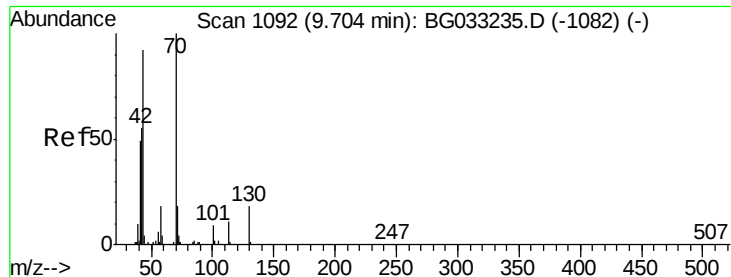
108 16.2 57.2 85.8#

77 68.9 46.1 69.1



Abundance Ion 79.00 (78.70 to 79.70): BGC  
Ion 108.00 (107.70 to 108.70): BGC  
Ion 77.00 (76.70 to 77.70): BGC

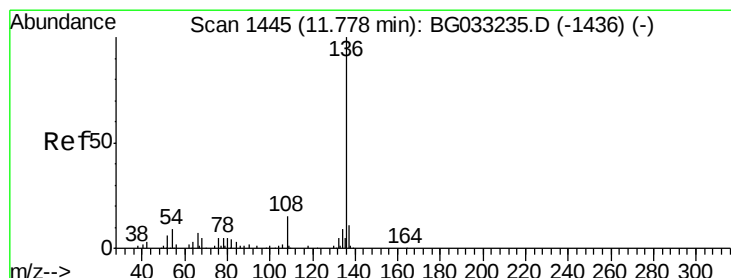
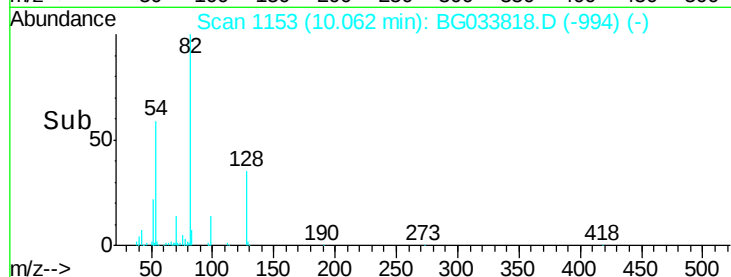
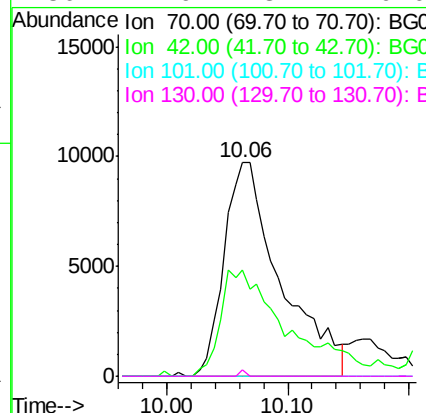
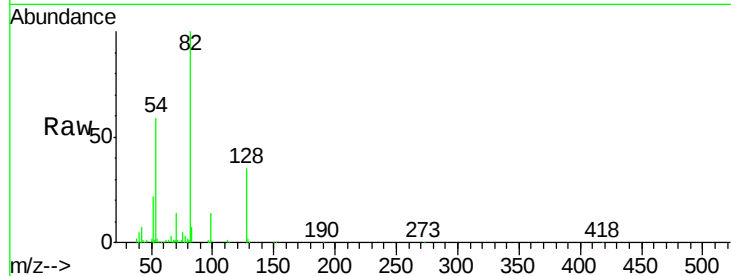




#19  
n-Nitroso-di-n-propylamine  
Concen: 16.294 ng  
RT: 10.06 min Scan# 1153  
Delta R.T. 0.41 min  
Lab File: BG033818.D  
Acq: 16 Apr 2018 16:13

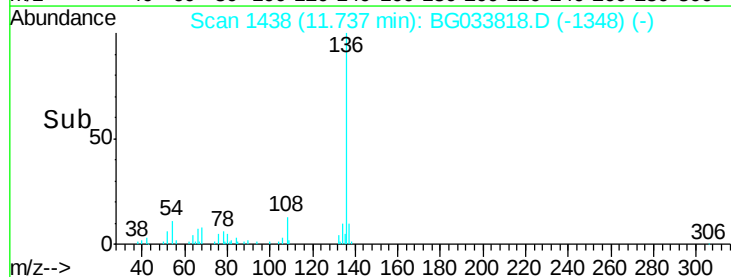
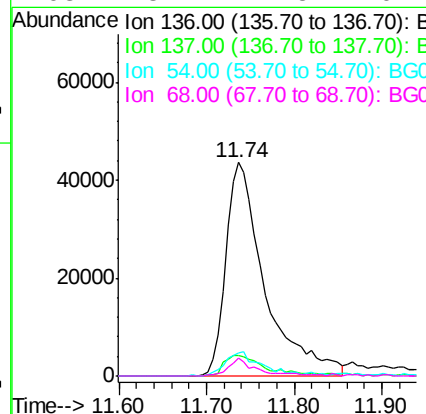
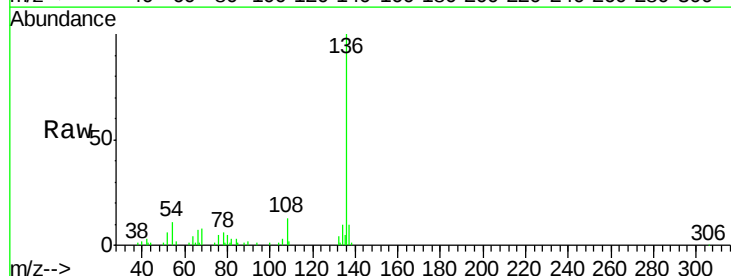
Instrument :  
BNA\_G  
ClientSampled :

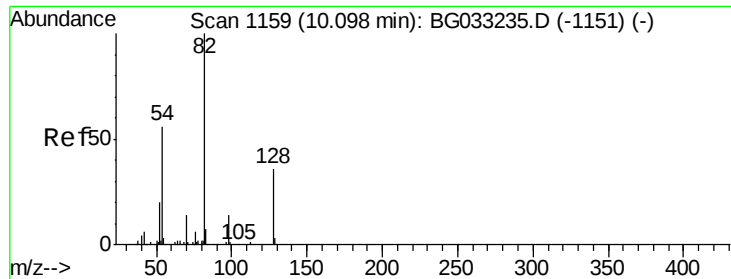
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 70      | 100   |       |       |
| 42      | 49.6  | 49.1  | 73.7  |
| 101     | 0.0   | 8.5   | 12.7# |
| 130     | 2.9   | 13.4  | 20.0# |



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.74 min Scan# 1438  
Delta R.T. -0.00 min  
Lab File: BG033818.D  
Acq: 16 Apr 2018 16:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 9.9   | 9.2   | 13.8  |
| 54      | 10.9  | 10.3  | 15.5  |
| 68      | 8.2   | 4.5   | 6.7#  |





#23

Nitrobenzene-d5

Concen: 88.885 ng

RT: 10.06 min Scan# 1153

Delta R.T. -0.00 min

Lab File: BG033818.D

Acq: 16 Apr 2018 16:13

Instrument :

BNA\_G

ClientSampleId :

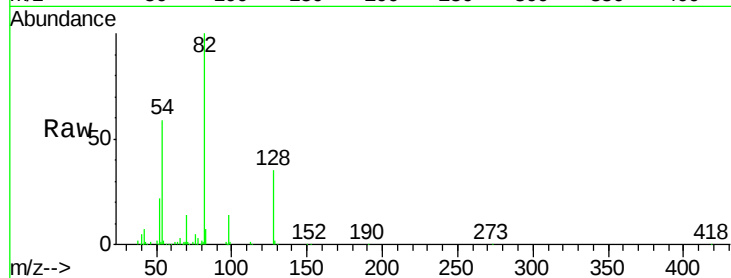
Tot Ion: 82 Resp: 258341

Ion Ratio Lower Upper

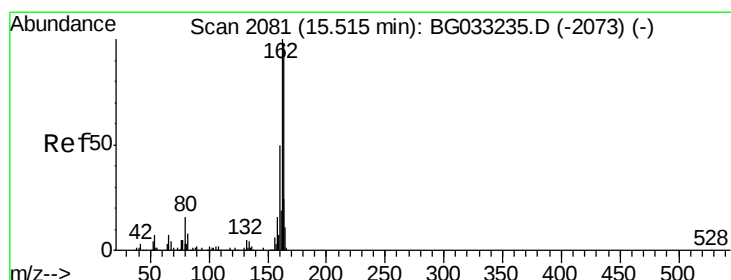
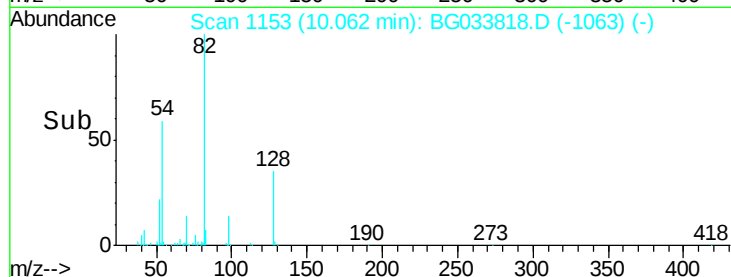
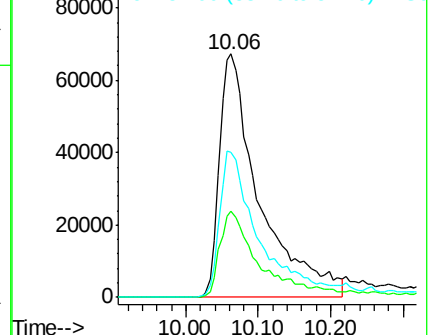
82 100

128 35.2 29.7 44.5

54 59.5 43.1 64.7



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



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 15.47 min Scan# 2073

Delta R.T. -0.01 min

Lab File: BG033818.D

Acq: 16 Apr 2018 16:13

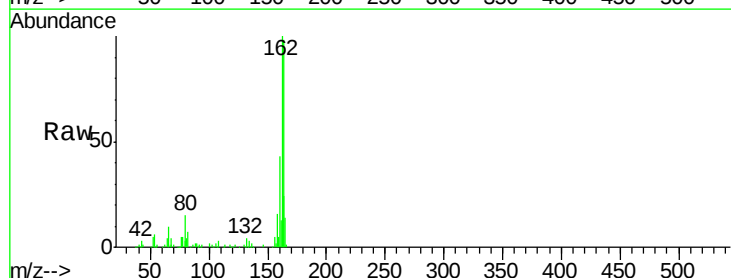
Tgt Ion: 164 Resp: 105363

Ion Ratio Lower Upper

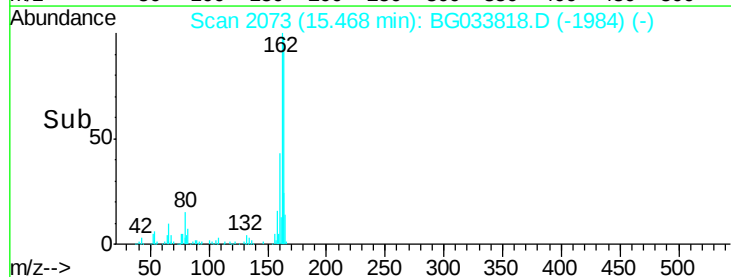
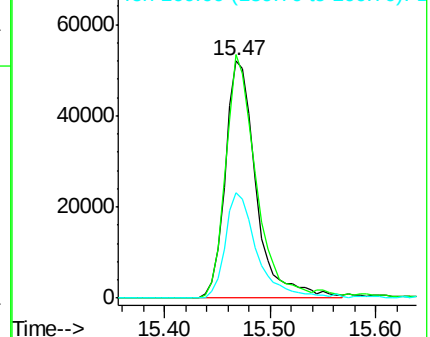
164 100

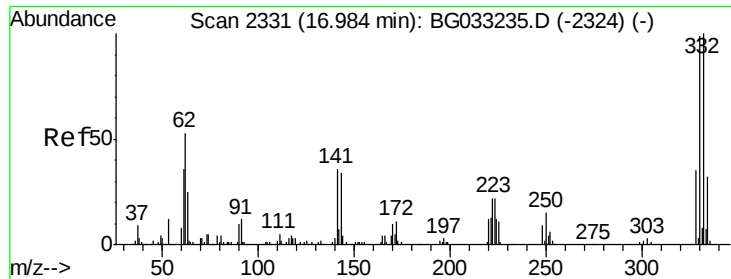
162 102.4 78.8 118.2

160 44.5 35.4 53.0



Abundance Ion 164.00 (163.70 to 164.70): BGC  
Ion 162.00 (161.70 to 162.70): BGC  
Ion 160.00 (159.70 to 160.70): BGC

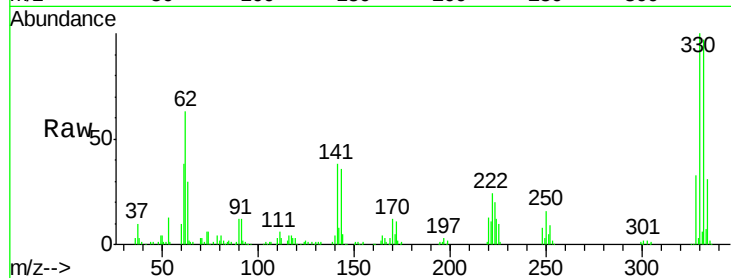




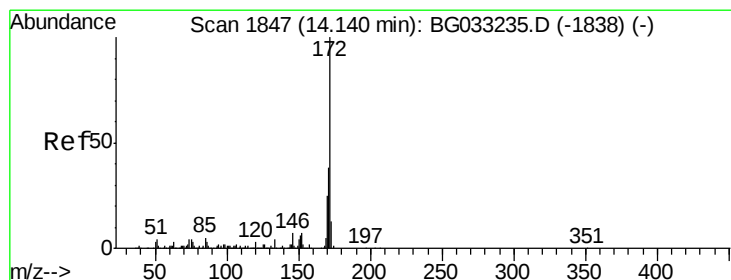
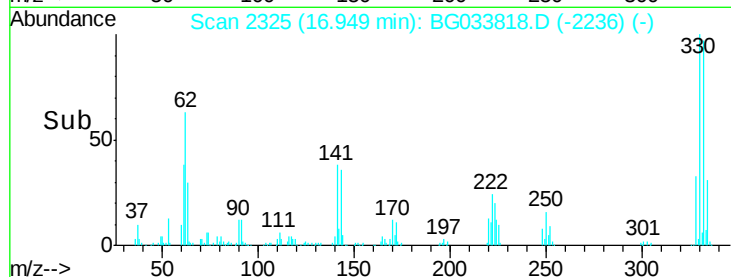
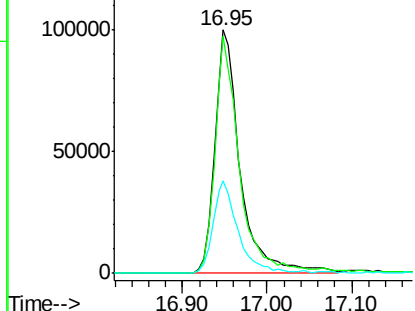
#41  
 2,4,6-Tribromophenol  
 Concen: 133.674 ng  
 RT: 16.95 min Scan# 2325  
 Delta R.T. -0.01 min  
 Lab File: BG033818.D  
 Acq: 16 Apr 2018 16:13

Instrument :  
 BNA\_G  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 94.9  | 77.0  | 115.6 |
| 141     | 37.6  | 25.2  | 37.8  |

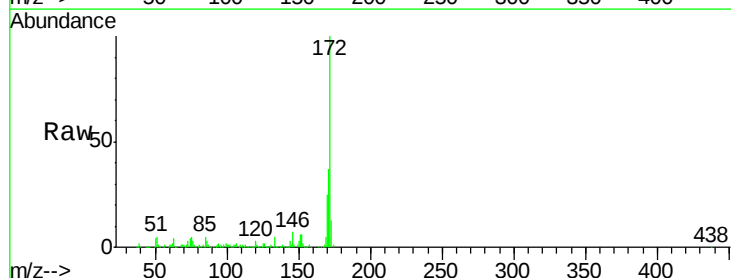


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

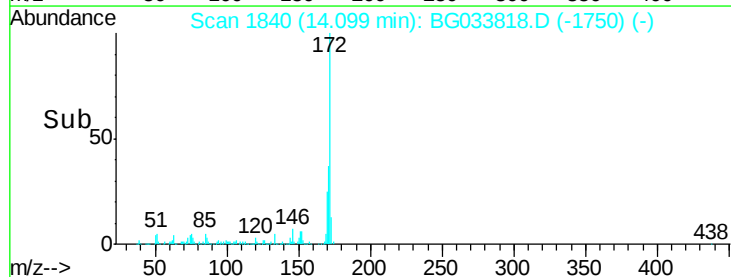
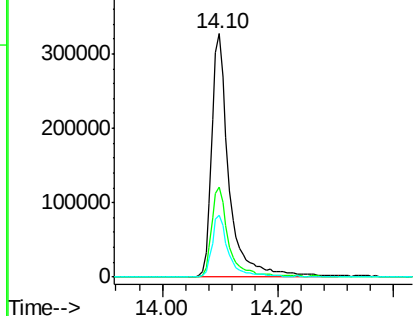


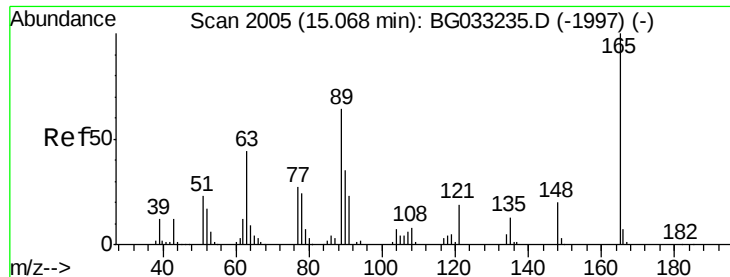
#44  
 2-Fluorobiphenyl  
 Concen: 94.414 ng  
 RT: 14.10 min Scan# 1840  
 Delta R.T. -0.00 min  
 Lab File: BG033818.D  
 Acq: 16 Apr 2018 16:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.2  | 30.0  | 45.0  |
| 170     | 25.2  | 19.5  | 29.3  |



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

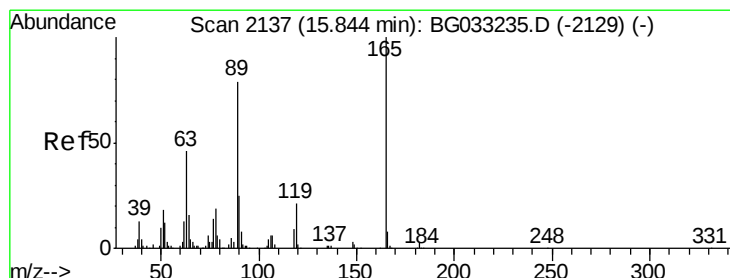
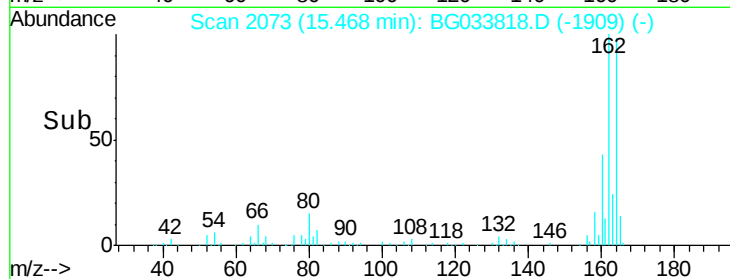
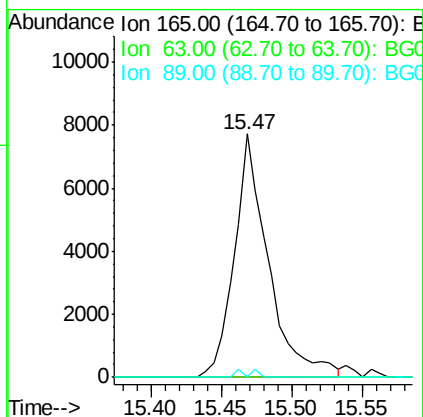
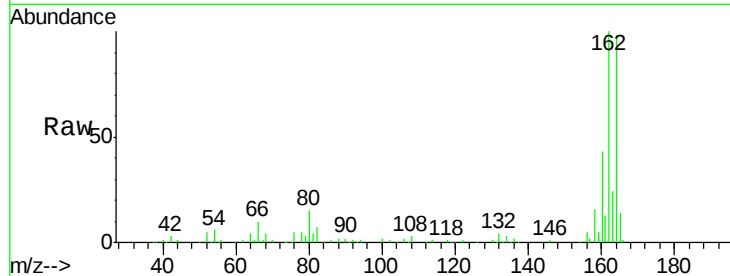




#50  
 2,6-Dinitrotoluene  
 Concen: 6.957 ng  
 RT: 15.47 min Scan# 2073  
 Delta R.T. 0.43 min  
 Lab File: BG033818.D  
 Acq: 16 Apr 2018 16:13

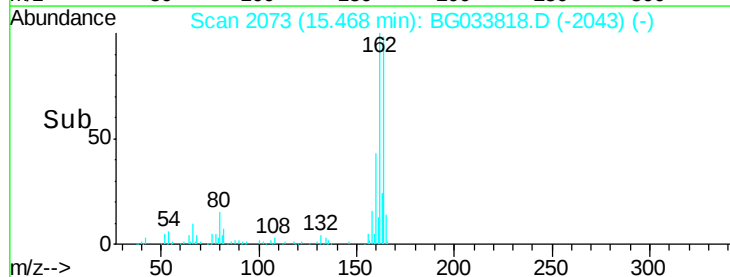
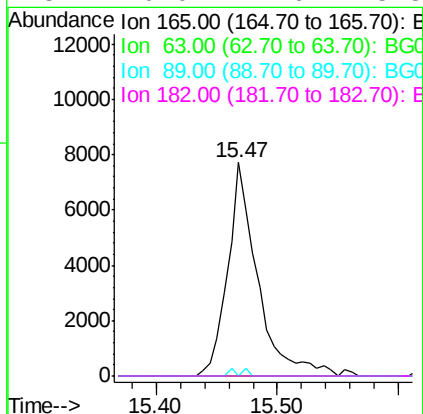
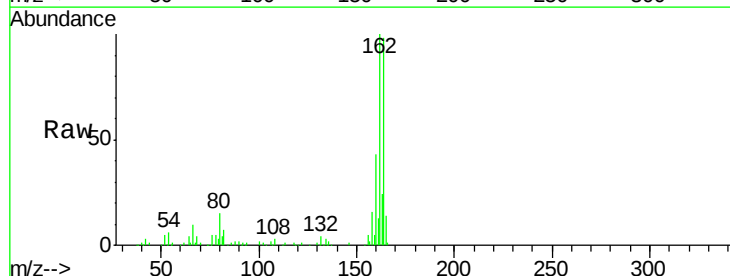
Instrument :  
 BNA\_G  
 ClientSampleId :

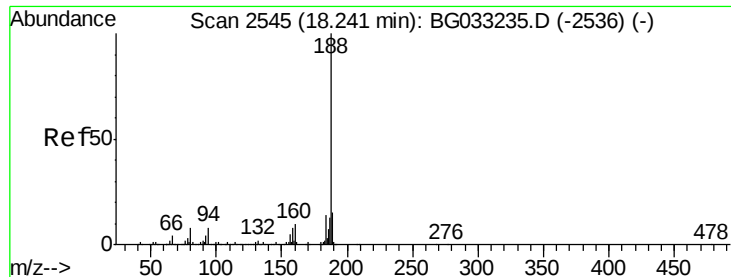
| Tot Ion   | 165 | Resp  | 13043 |
|-----------|-----|-------|-------|
| Ion Ratio | 100 | Lower | Upper |
| 63        | 0.0 | 52.7  | 79.1# |
| 89        | 0.0 | 49.2  | 73.8# |



#56  
 2,4-Dinitrotoluene  
 Concen: 4.802 ng  
 RT: 15.47 min Scan# 2073  
 Delta R.T. -0.35 min  
 Lab File: BG033818.D  
 Acq: 16 Apr 2018 16:13

| Tgt Ion   | 165 | Resp  | 13255  |
|-----------|-----|-------|--------|
| Ion Ratio | 100 | Lower | Upper  |
| 63        | 0.0 | 42.0  | 63.0#  |
| 89        | 0.0 | 66.9  | 100.3# |
| 182       | 0.0 | 2.6   | 3.8#   |

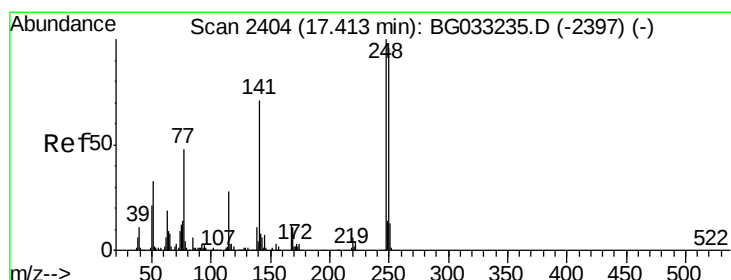
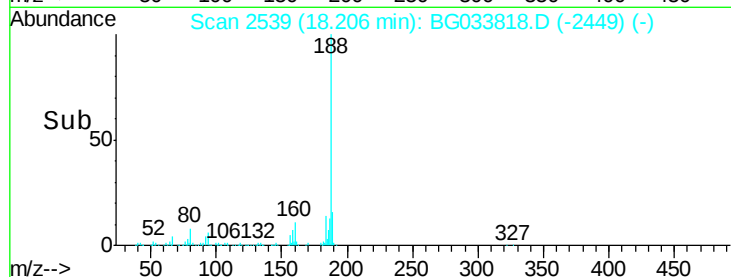
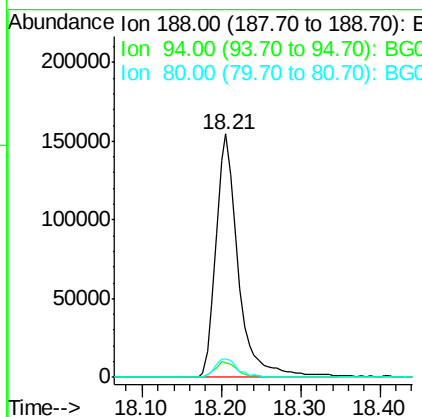
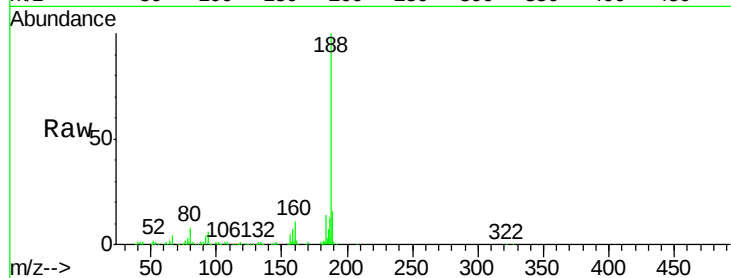




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 18.21 min Scan# 2539  
Delta R.T. -0.00 min  
Lab File: BG033818.D  
Acq: 16 Apr 2018 16:13

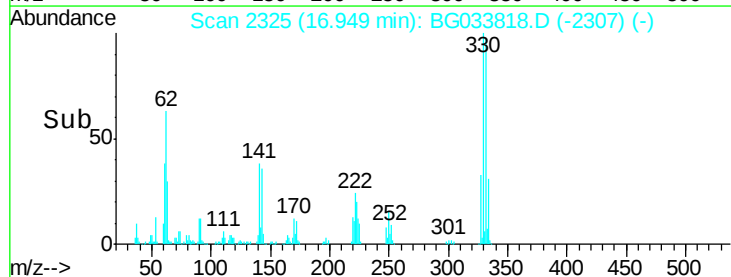
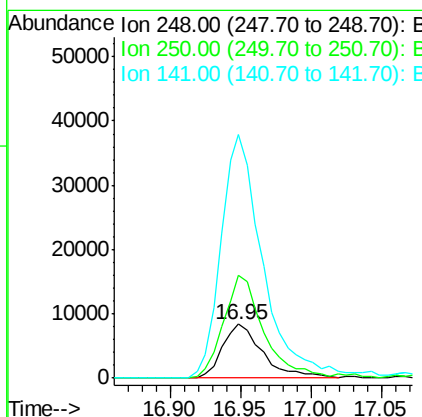
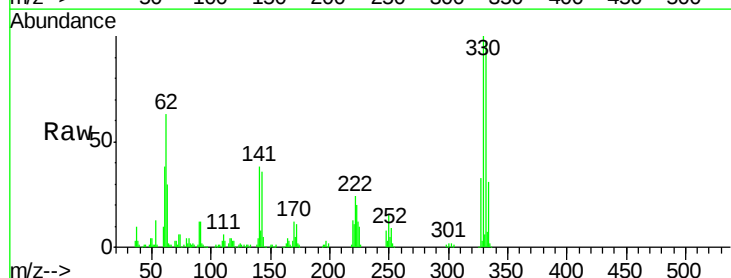
Instrument :  
BNA\_G  
ClientSampleId :

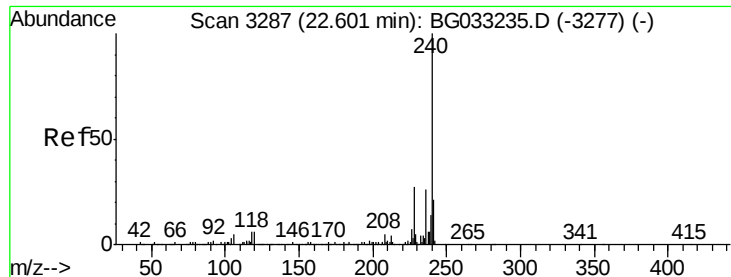
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 6.0   | 6.9   | 10.3# |
| 80      | 7.7   | 7.7   | 11.5  |



#66  
4-Bromophenyl-phenylether  
Concen: 4.669 ng  
RT: 16.95 min Scan# 2325  
Delta R.T. -0.42 min  
Lab File: BG033818.D  
Acq: 16 Apr 2018 16:13

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 248     | 100   |       |        |
| 250     | 192.9 | 77.1  | 115.7# |
| 141     | 454.2 | 50.8  | 76.2#  |





#75

Chrysene-d12

Concen: 20.000 ng

RT: 22.55 min Scan# 3278

Delta R.T. -0.01 min

Lab File: BG033818.D

Acq: 16 Apr 2018 16:13

Instrument :

BNA\_G

ClientSampleId :

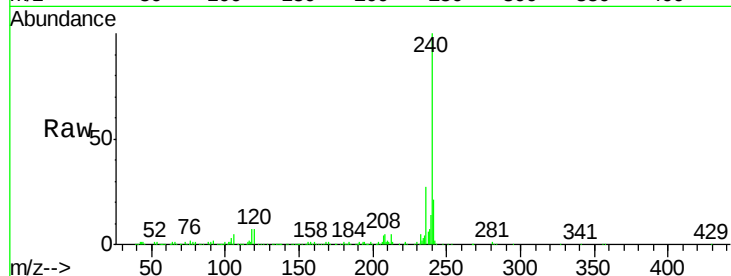
Tot Ion:240 Resp: 353925

Ion Ratio Lower Upper

240 100

120 6.9 6.8 10.2

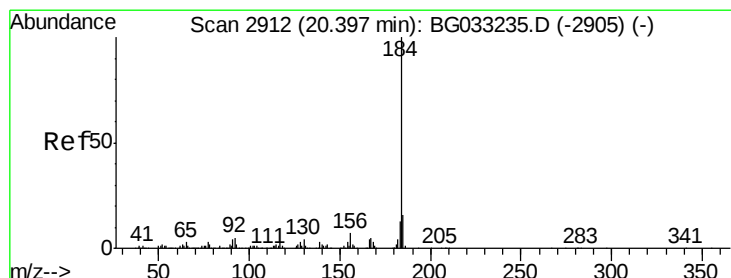
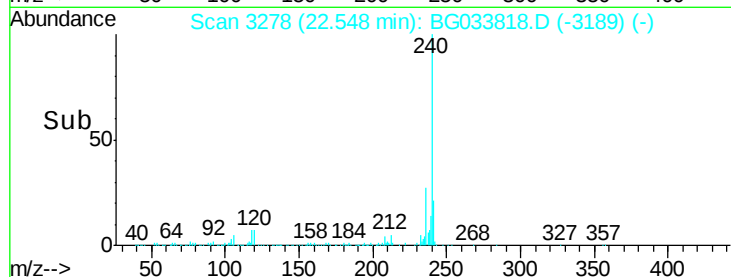
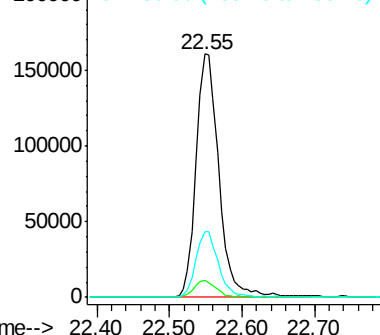
236 26.8 20.9 31.3



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



#76

Benzidine

Concen: 2.768 ng

RT: 20.73 min Scan# 2968

Delta R.T. 0.35 min

Lab File: BG033818.D

Acq: 16 Apr 2018 16:13

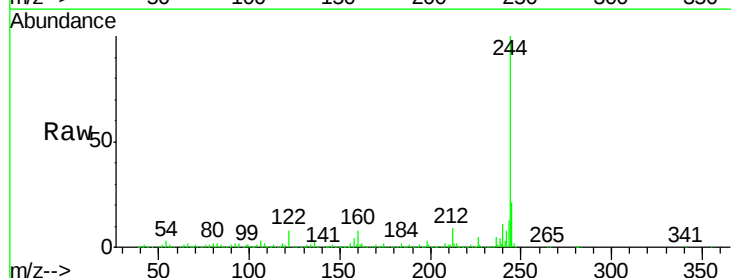
Tgt Ion:184 Resp: 26563

Ion Ratio Lower Upper

184 100

185 17.4 11.1 16.7#

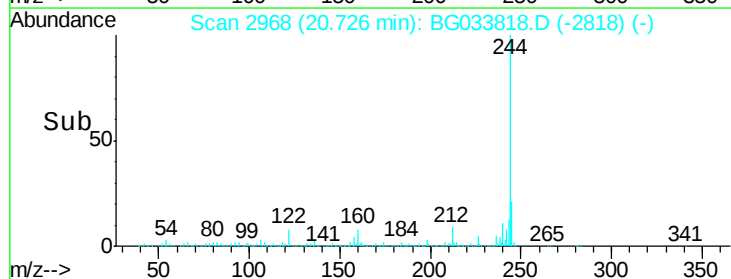
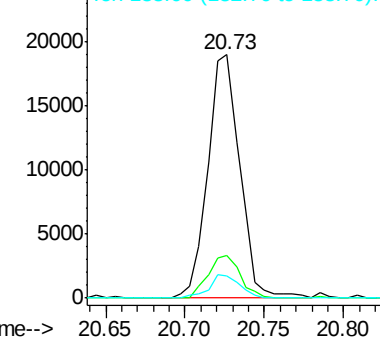
183 9.1 10.6 16.0#

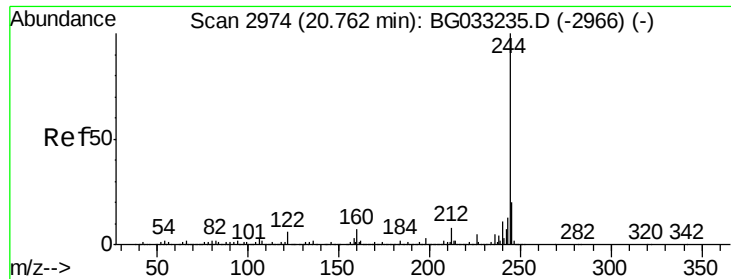


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#78

Terphenyl-d14

Concen: 92.299 ng

RT: 20.73 min Scan# 2968

Delta R.T. -0.00 min

Lab File: BG033818.D

Acq: 16 Apr 2018 16:13

Instrument :

BNA\_G

ClientSampleId :

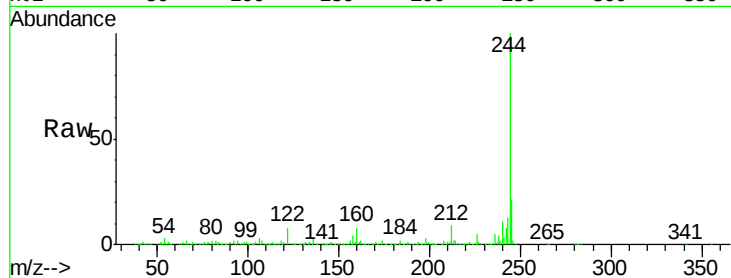
Tot Ion:244 Resp: 1527493

Ion Ratio Lower Upper

244 100

212 8.6 5.8 8.8

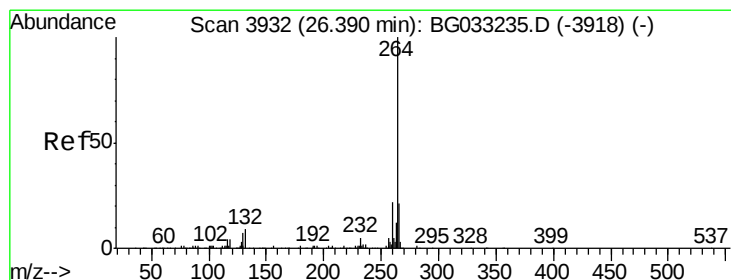
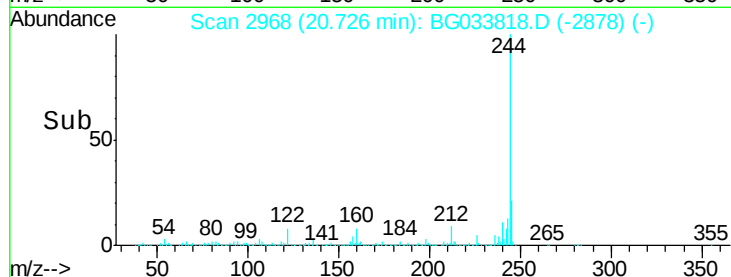
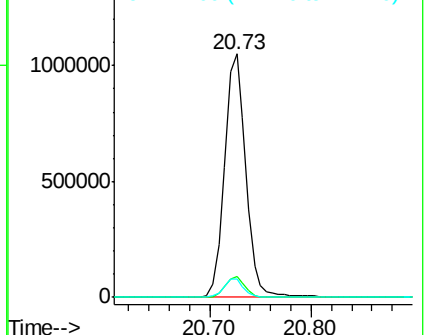
122 7.7 7.0 10.4



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



#86

Perylene-d12

Concen: 20.000 ng

RT: 26.32 min Scan# 3920

Delta R.T. -0.01 min

Lab File: BG033818.D

Acq: 16 Apr 2018 16:13

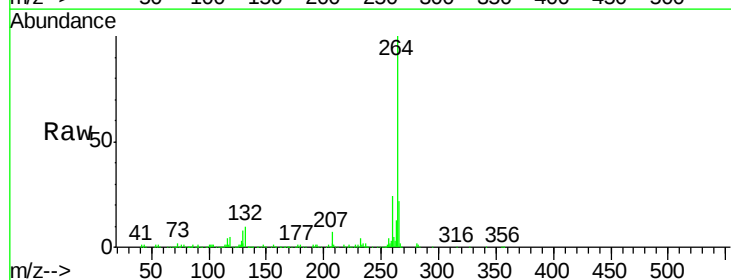
Tgt Ion:264 Resp: 376062

Ion Ratio Lower Upper

264 100

260 24.2 17.4 26.0

265 22.2 17.7 26.5



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

