

Data Path : Z:\HPCHEM1\BNA G\DATA\BG041618\  
 Data File : BG033819.D  
 Acq On : 16 Apr 2018 16:50  
 Operator : SJ/JU  
 Sample : PB108223TB  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Apr 16 17:24:29 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

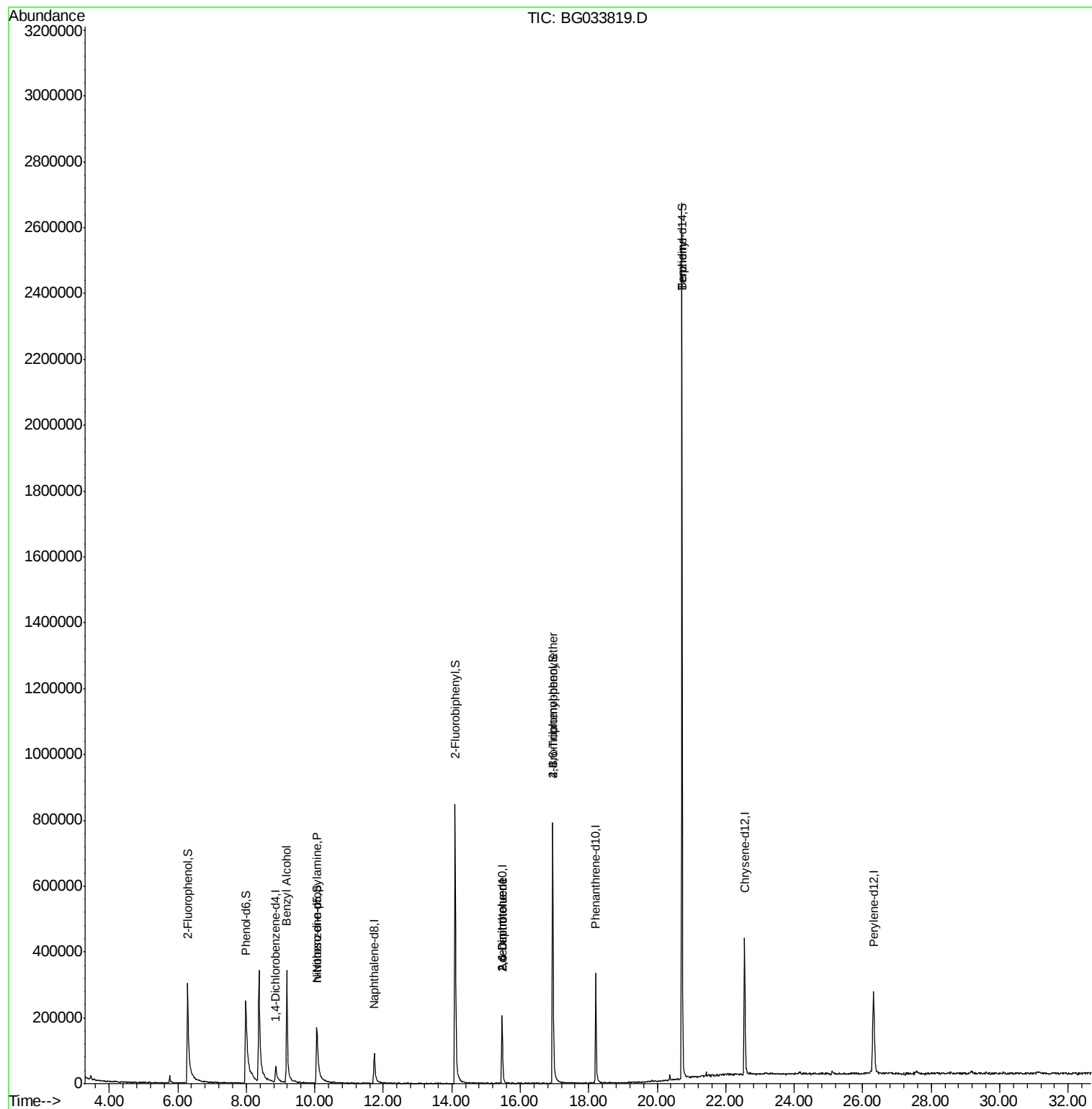
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.85  | 152  | 25320    | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8             | 11.74 | 136  | 128538   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 15.47 | 164  | 94898    | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 18.21 | 188  | 275894   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 22.55 | 240  | 322367   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 26.32 | 264  | 348833   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 6.29  | 112  | 243845   | 180.58 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.99  | 99   | 347532   | 149.79 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 10.06 | 82   | 234070   | 83.66  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 16.95 | 330  | 185459   | 130.67 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 14.10 | 172  | 604542   | 91.97  | ng    | 0.00     |
| 78) Terphenyl-d14              | 20.72 | 244  | 1414473  | 93.84  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 15) Benzyl Alcohol             | 9.19  | 79   | 4818     | 2.638  | ng    | # 37     |
| 19) n-Nitroso-di-n-propylamine | 10.06 | 70   | 27699    | 16.293 | ng    | # 77     |
| 50) 2,6-Dinitrotoluene         | 15.47 | 165  | 11983    | 7.096  | ng    | # 20     |
| 56) 2,4-Dinitrotoluene         | 15.47 | 165  | 11983    | 4.819  | ng    | # 18     |
| 66) 4-Bromophenyl-phenylether  | 16.95 | 248  | 13522    | 4.173  | ng    | # 1      |
| 76) Benzidine                  | 20.72 | 184  | 22074    | 2.525  | ng    | # 93     |

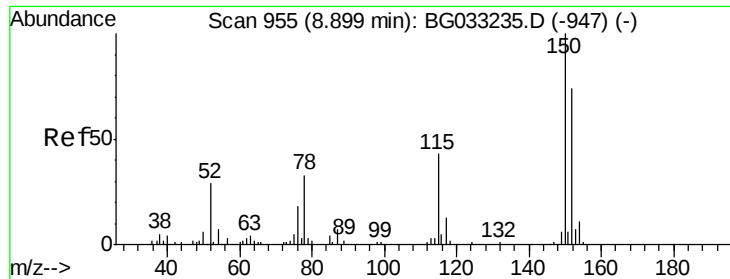
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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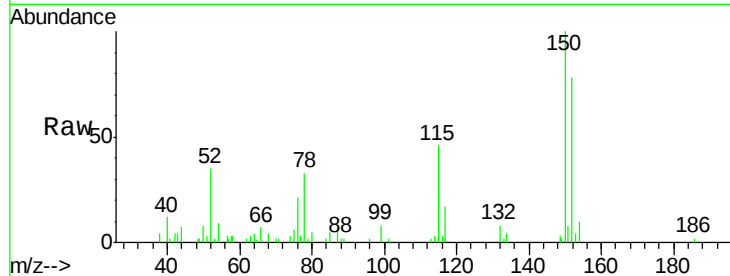


#1

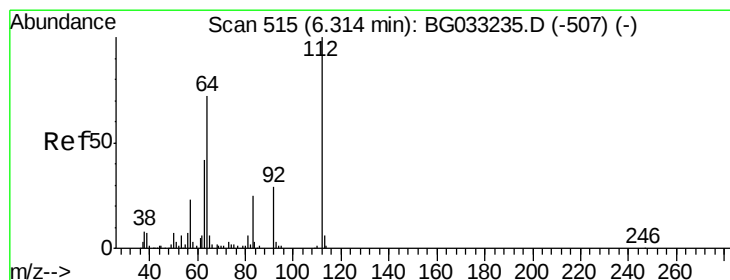
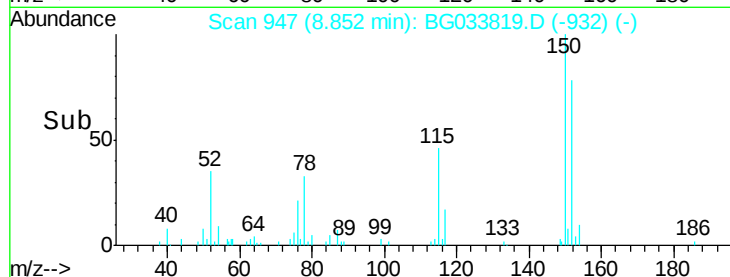
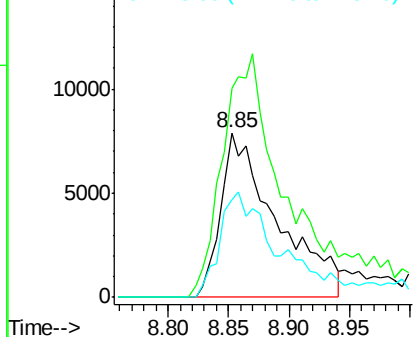
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.85 min Scan# 947  
Delta R.T. -0.01 min  
Lab File: BG033819.D  
Acq: 16 Apr 2018 16:50

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 25320  
Ion Ratio Lower Upper  
152 100  
150 127.6 126.6 189.8  
115 59.2 53.0 79.4



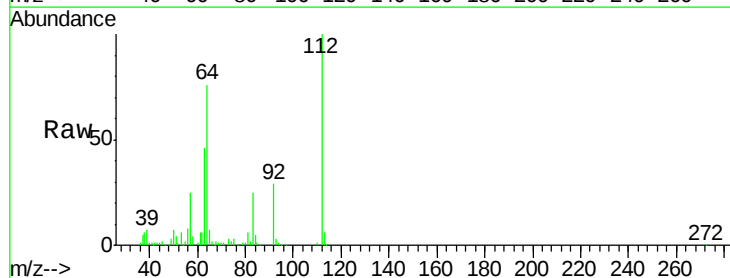
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



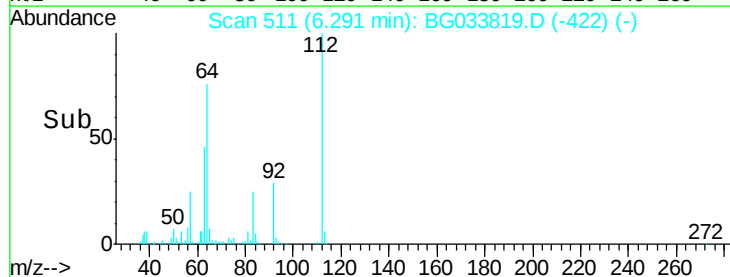
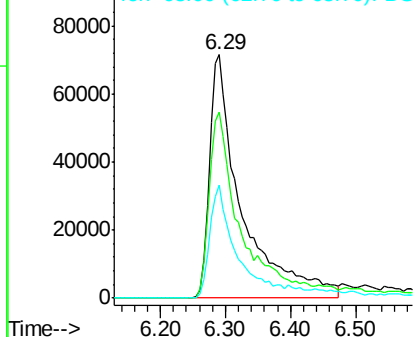
#5

2-Fluorophenol  
Concen: 180.584 ng  
RT: 6.29 min Scan# 511  
Delta R.T. -0.01 min  
Lab File: BG033819.D  
Acq: 16 Apr 2018 16:50

Tgt Ion:112 Resp: 243845  
Ion Ratio Lower Upper  
112 100  
64 76.2 56.3 84.5  
63 46.2 30.1 45.1#



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: 149.791 ng

RT: 7.99 min Scan# 800

Delta R.T. 0.00 min

Lab File: BG033819.D

Acq: 16 Apr 2018 16:50

Instrument :

BNA\_G

ClientSampleId :

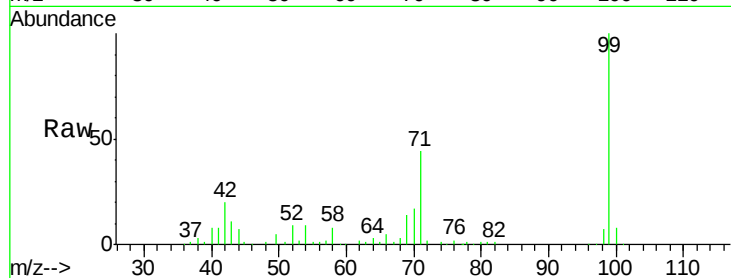
Tot Ion: 99 Resp: 347532

Ion Ratio Lower Upper

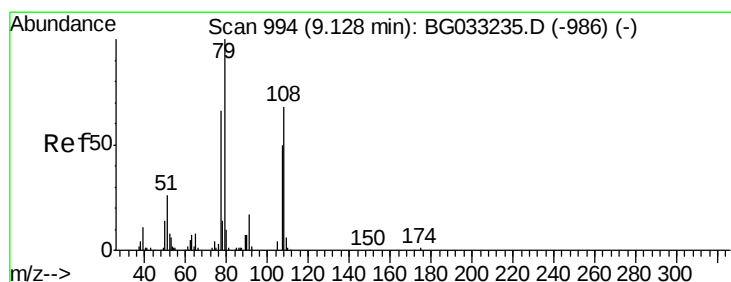
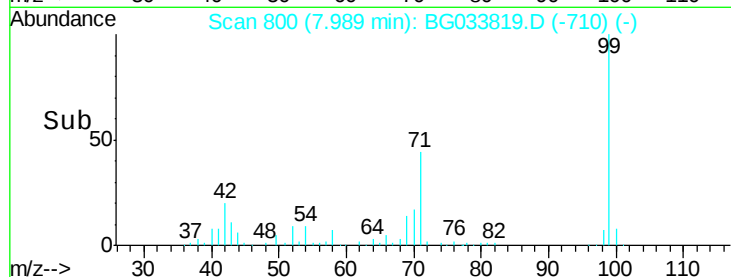
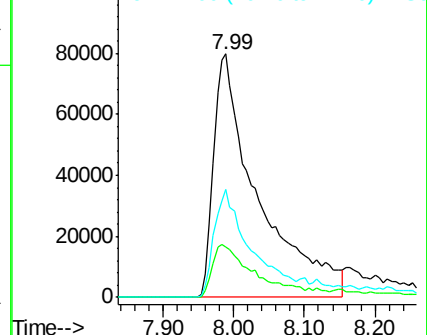
99 100

42 20.5 14.1 21.1

71 44.3 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: 2.638 ng

RT: 9.19 min Scan# 1004

Delta R.T. 0.08 min

Lab File: BG033819.D

Acq: 16 Apr 2018 16:50

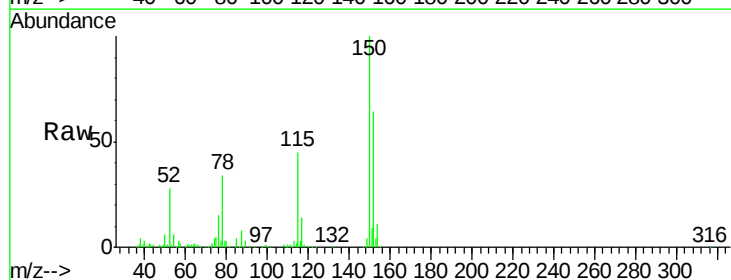
Tgt Ion: 79 Resp: 4818

Ion Ratio Lower Upper

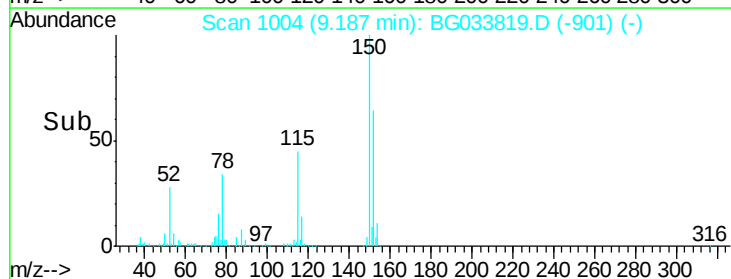
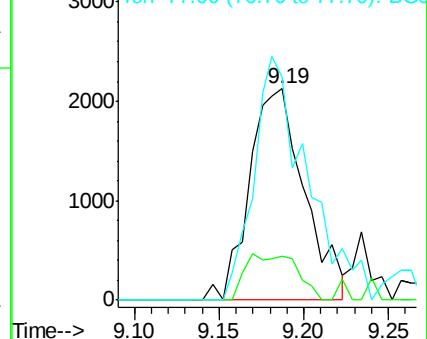
79 100

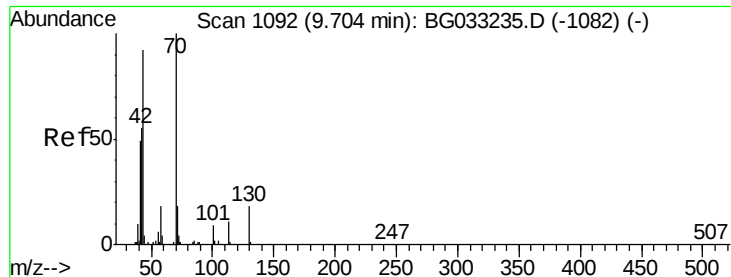
108 20.6 57.2 85.8#

77 105.7 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

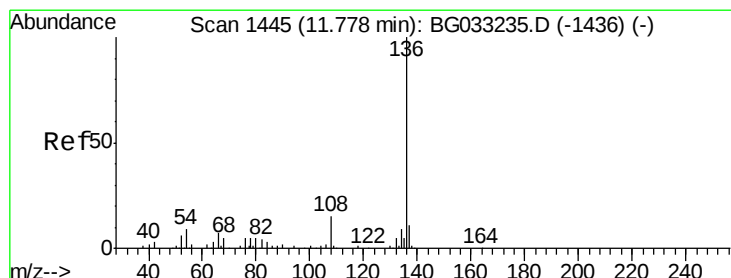
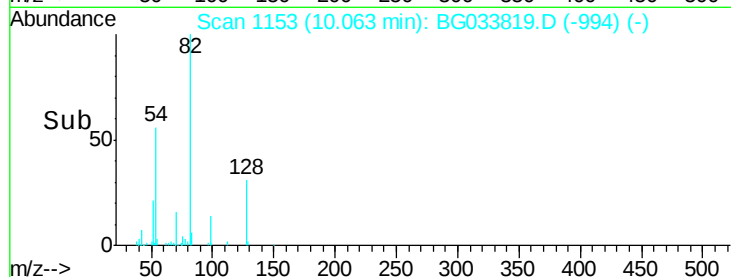
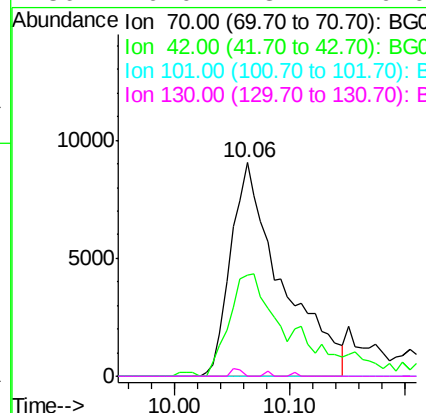
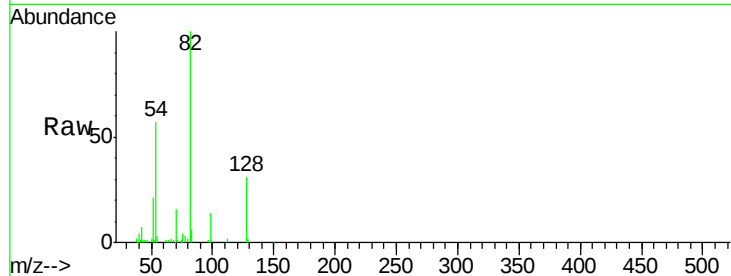




#19  
 n-Nitroso-di-n-propylamine  
 Concen: 16.293 ng  
 RT: 10.06 min Scan# 1153  
 Delta R.T. 0.41 min  
 Lab File: BG033819.D  
 Acq: 16 Apr 2018 16:50

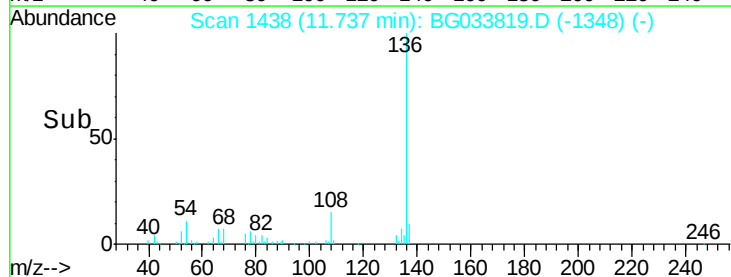
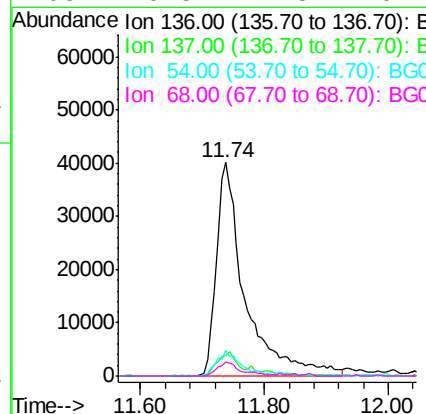
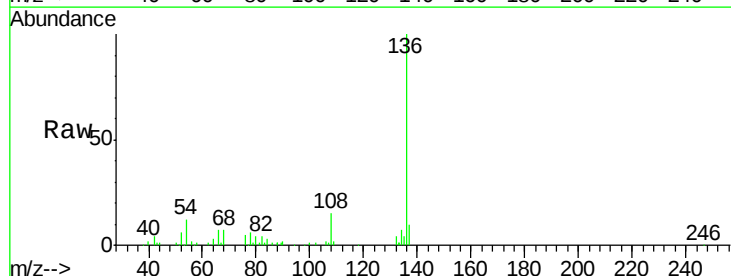
Instrument :  
 BNA\_G  
 ClientSampleId :

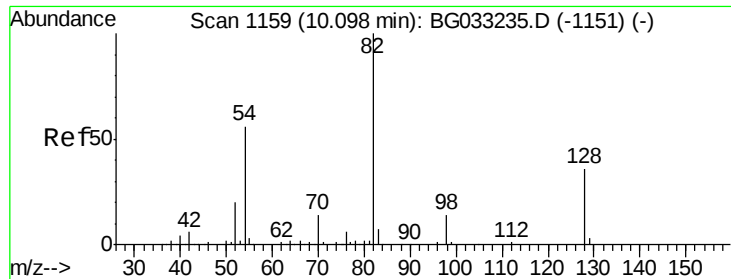
Tot Ion: 70 Resp: 27699  
 Ion Ratio Lower Upper  
 70 100  
 42 47.6 49.1 73.7#  
 101 0.0 8.5 12.7#  
 130 0.0 13.4 20.0#



#21  
 Naphthalene-d8  
 Concen: 20.000 ng  
 RT: 11.74 min Scan# 1438  
 Delta R.T. 0.00 min  
 Lab File: BG033819.D  
 Acq: 16 Apr 2018 16:50

Tgt Ion: 136 Resp: 128538  
 Ion Ratio Lower Upper  
 136 100  
 137 9.6 9.2 13.8  
 54 11.8 10.3 15.5  
 68 6.5 4.5 6.7

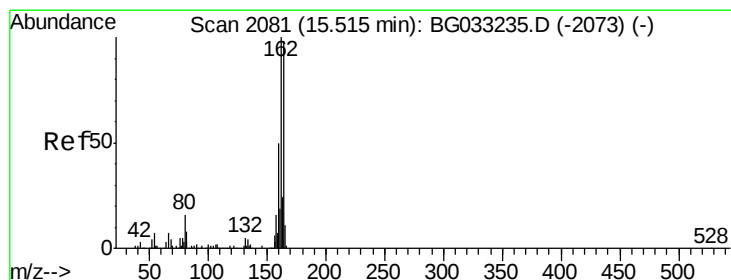
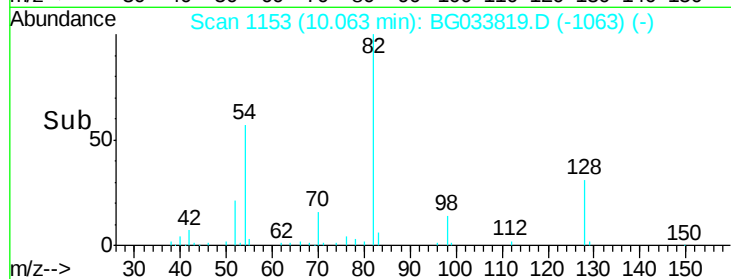
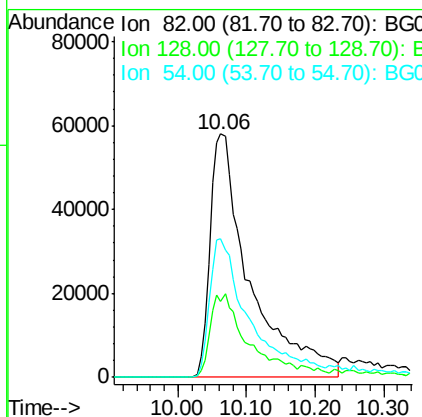
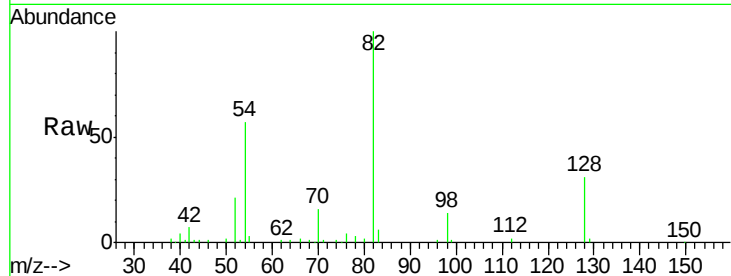




#23  
Nitrobenzene-d5  
Concen: 83.665 ng  
RT: 10.06 min Scan# 1153  
Delta R.T. 0.00 min  
Lab File: BG033819.D  
Acq: 16 Apr 2018 16:50

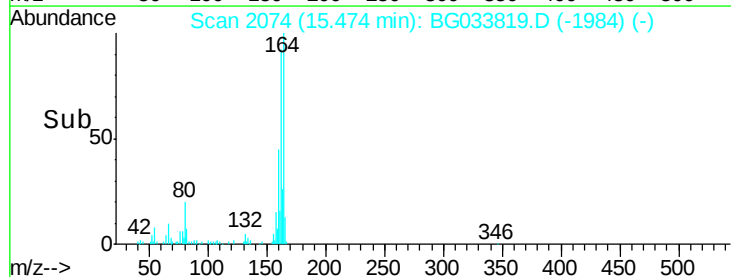
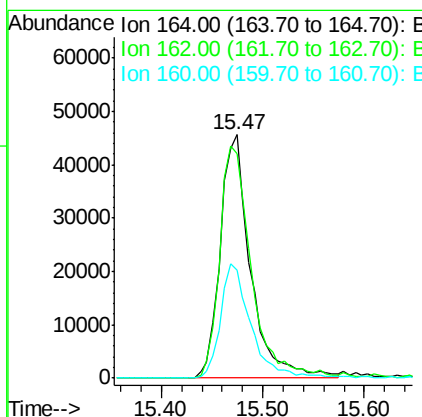
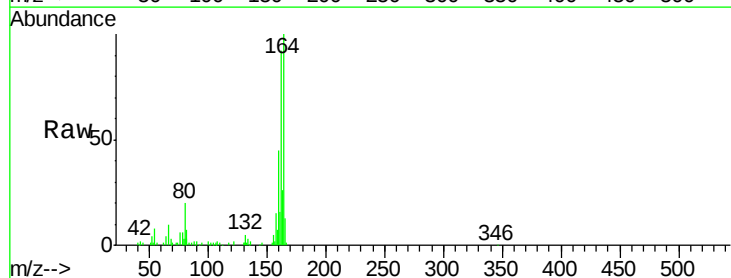
Instrument :  
BNA\_G  
ClientSampleId :

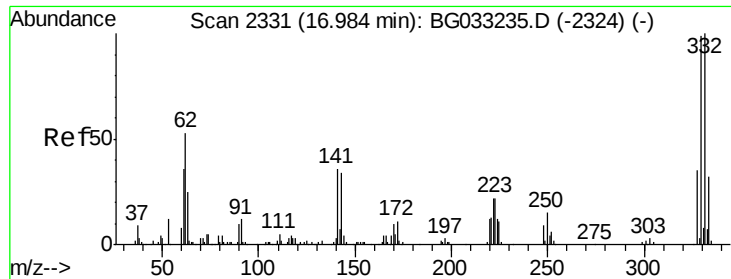
| Tot Ion   | 82    | Resp  | 234070 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 31.3  | 29.7  | 44.5   |
| 54        | 56.8  | 43.1  | 64.7   |



#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 15.47 min Scan# 2074  
Delta R.T. 0.00 min  
Lab File: BG033819.D  
Acq: 16 Apr 2018 16:50

| Tgt Ion   | 164   | Resp  | 94898 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 164       | 100   |       |       |
| 162       | 92.2  | 78.8  | 118.2 |
| 160       | 44.6  | 35.4  | 53.0  |

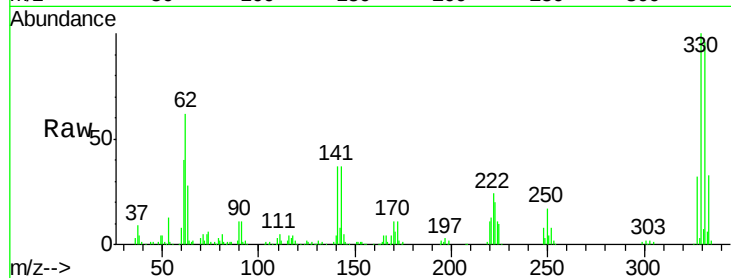




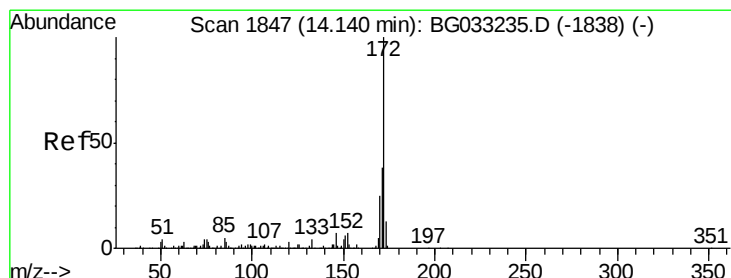
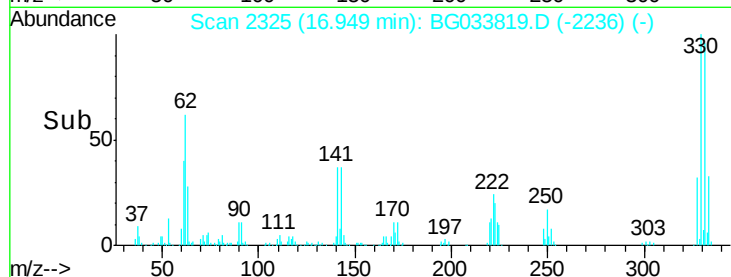
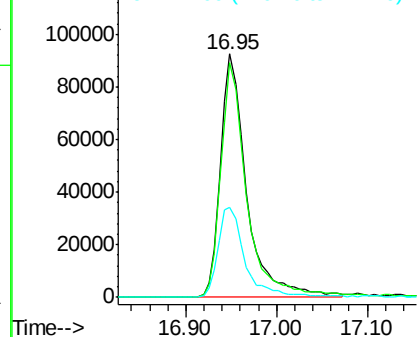
#41  
 2,4,6-Tribromophenol  
 Concen: 130.668 ng  
 RT: 16.95 min Scan# 2325  
 Delta R.T. -0.01 min  
 Lab File: BG033819.D  
 Acq: 16 Apr 2018 16:50

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.4  | 77.0  | 115.6 |
| 141     | 38.3  | 25.2  | 37.8# |

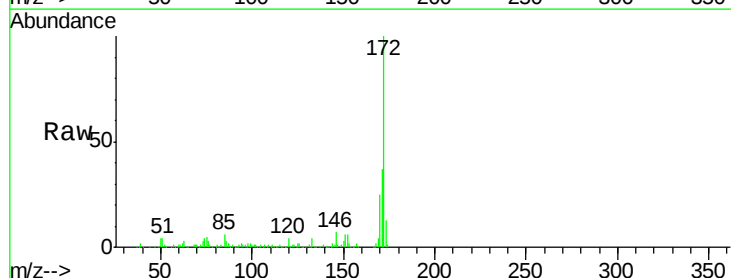


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

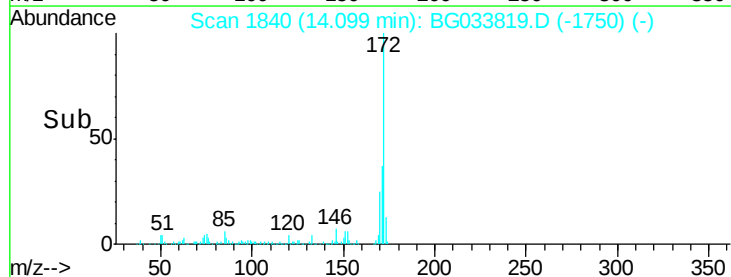
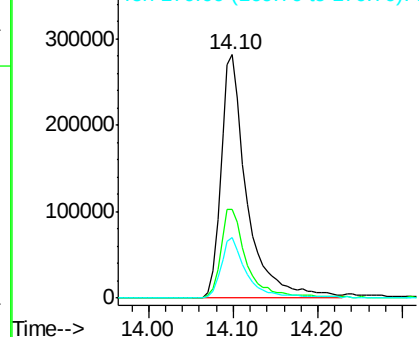


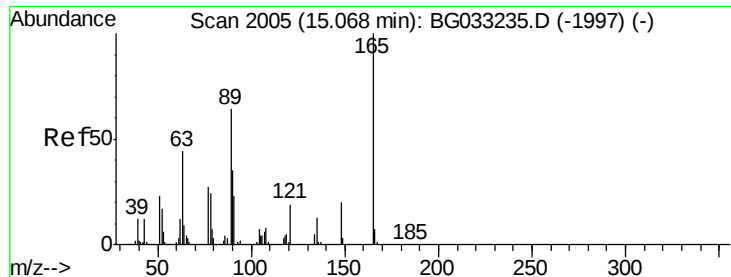
#44  
 2-Fluorobiphenyl  
 Concen: 91.966 ng  
 RT: 14.10 min Scan# 1840  
 Delta R.T. 0.00 min  
 Lab File: BG033819.D  
 Acq: 16 Apr 2018 16:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.5  | 30.0  | 45.0  |
| 170     | 24.9  | 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

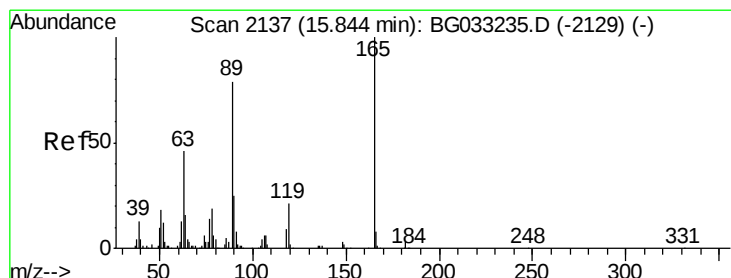
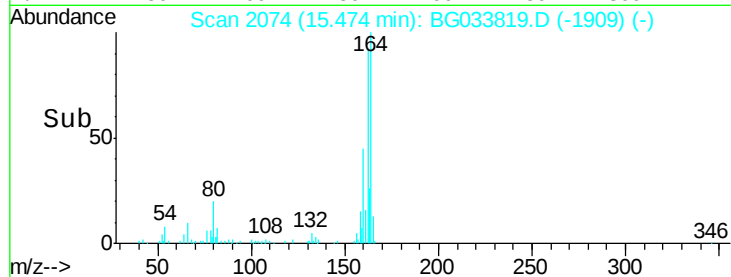
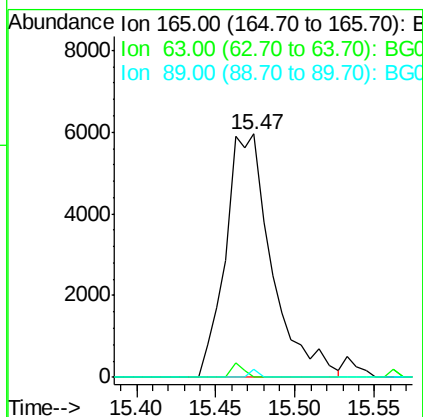
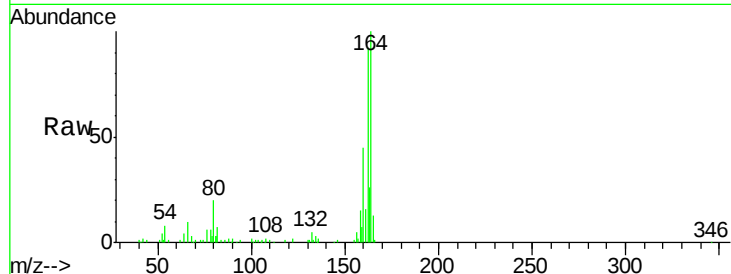




#50  
 2,6-Dinitrotoluene  
 Concen: 7.096 ng  
 RT: 15.47 min Scan# 2074  
 Delta R.T. 0.44 min  
 Lab File: BG033819.D  
 Acq: 16 Apr 2018 16:50

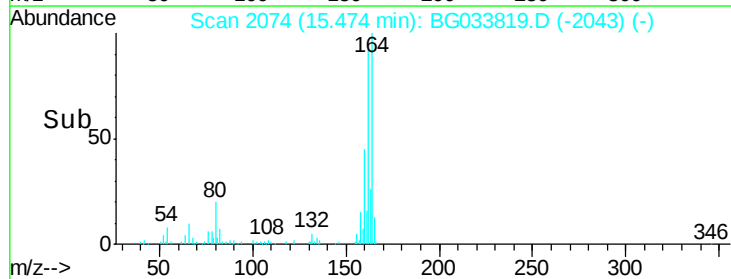
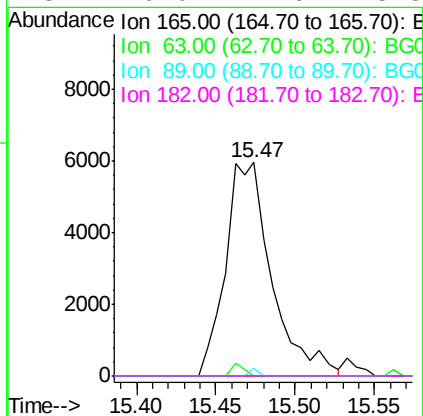
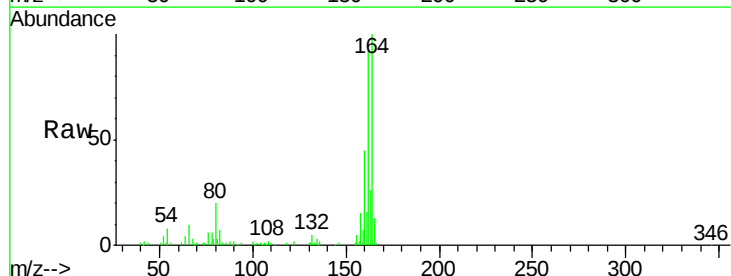
Instrument :  
 BNA\_G  
 ClientSampleId :

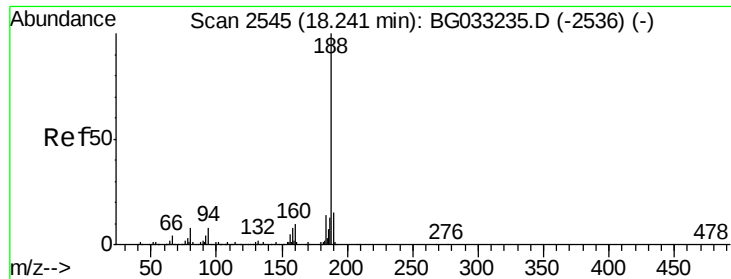
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 52.7  | 79.1# |
| 89      | 3.3   | 49.2  | 73.8# |



#56  
 2,4-Dinitrotoluene  
 Concen: 4.819 ng  
 RT: 15.47 min Scan# 2074  
 Delta R.T. -0.35 min  
 Lab File: BG033819.D  
 Acq: 16 Apr 2018 16:50

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 165     | 100   |       |        |
| 63      | 0.0   | 42.0  | 63.0#  |
| 89      | 3.3   | 66.9  | 100.3# |
| 182     | 0.0   | 2.6   | 3.8#   |

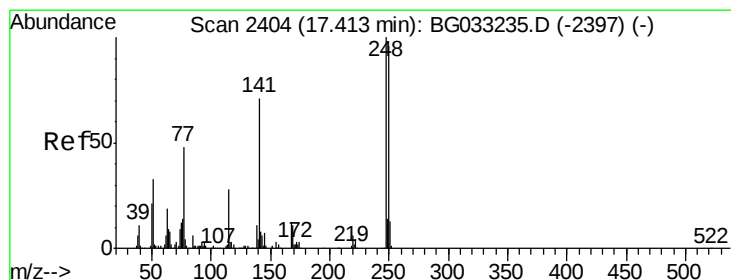
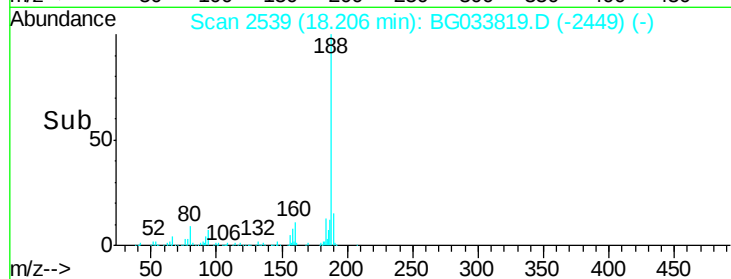
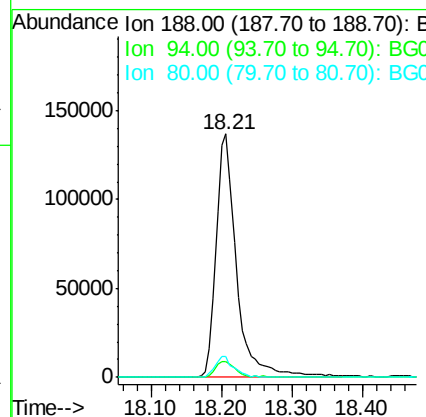
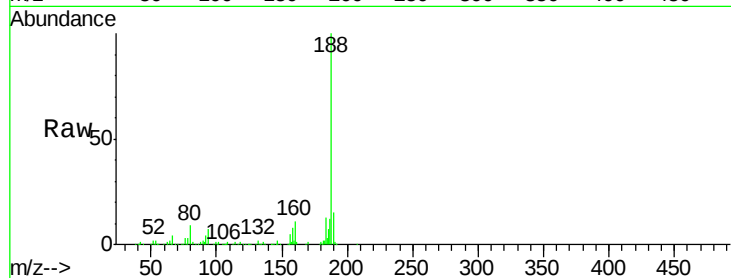




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 18.21 min Scan# 2539  
Delta R.T. 0.00 min  
Lab File: BG033819.D  
Acq: 16 Apr 2018 16:50

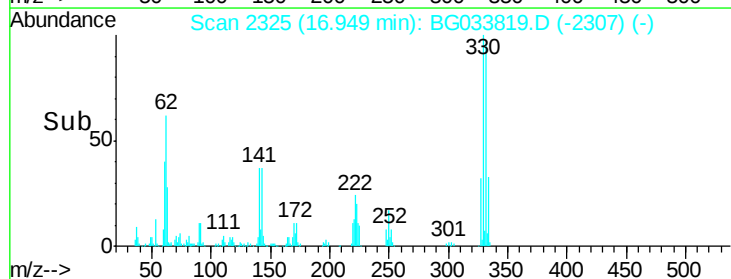
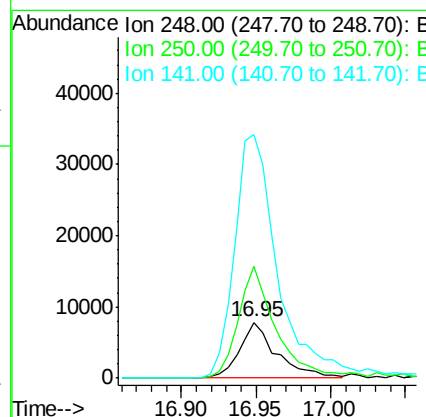
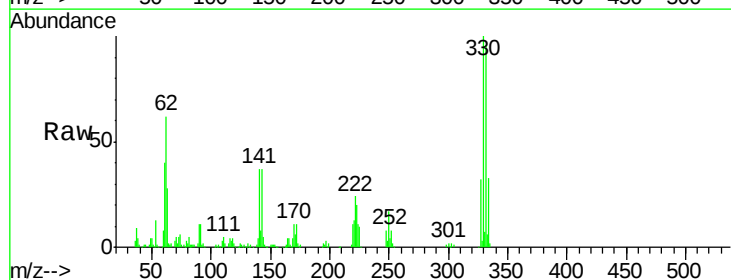
Instrument :  
BNA\_G  
ClientSampleId :

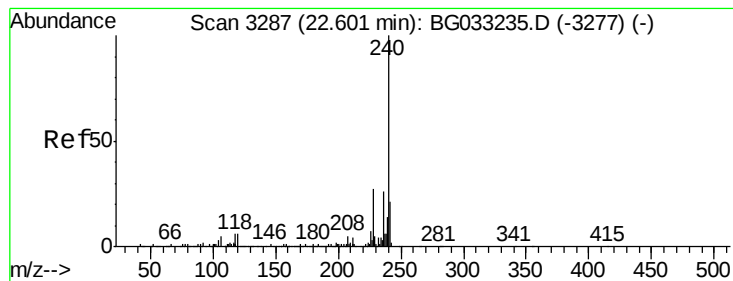
Tot Ion:188 Resp: 275894  
Ion Ratio Lower Upper  
188 100  
94 6.7 6.9 10.3#  
80 8.7 7.7 11.5



#66  
4-Bromophenyl-phenylether  
Concen: 4.173 ng  
RT: 16.95 min Scan# 2325  
Delta R.T. -0.42 min  
Lab File: BG033819.D  
Acq: 16 Apr 2018 16:50

Tgt Ion:248 Resp: 13522  
Ion Ratio Lower Upper  
248 100  
250 251.5 77.1 115.7#  
141 439.2 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: BG033819.D

Acq: 16 Apr 2018 16:50

Instrument :

BNA\_G

ClientSampleId :

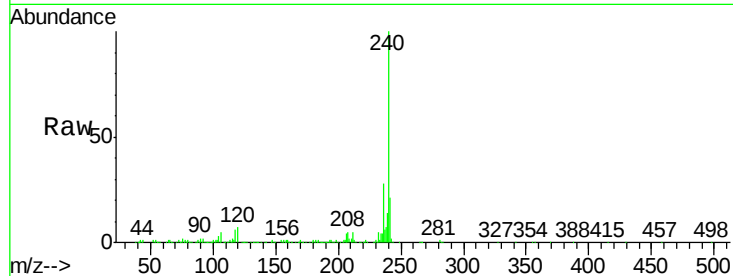
Tot Ion:240 Resp: 322367

Ion Ratio Lower Upper

240 100

120 7.1 6.8 10.2

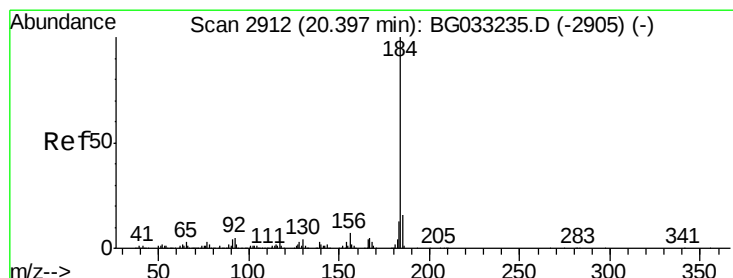
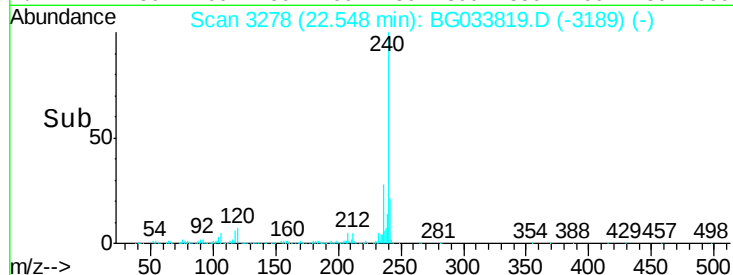
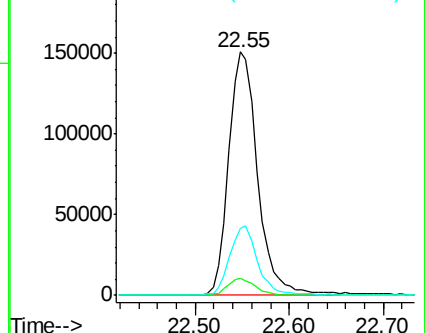
236 27.7 20.9 31.3



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: 2.525 ng

RT: 20.72 min Scan# 2967

Delta R.T. 0.35 min

Lab File: BG033819.D

Acq: 16 Apr 2018 16:50

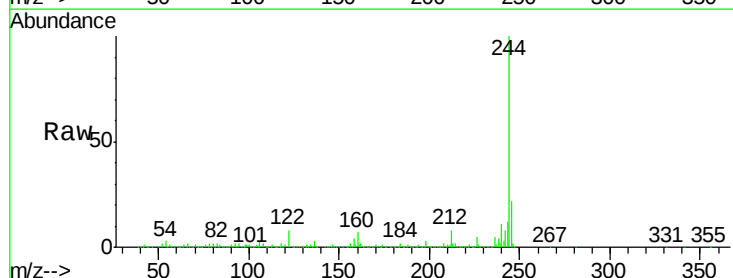
Tgt Ion:184 Resp: 22074

Ion Ratio Lower Upper

184 100

185 14.6 11.1 16.7

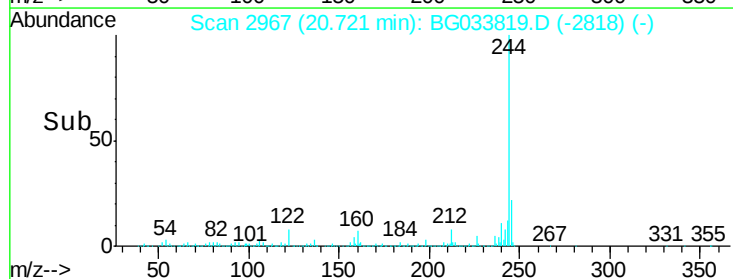
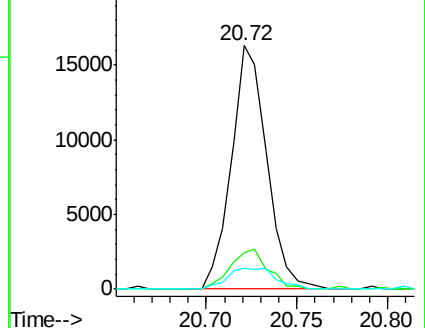
183 8.7 10.6 16.0#

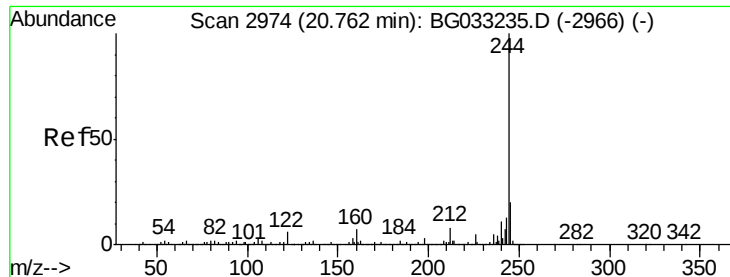


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#78

Terphenyl-d14

Concen: 93.837 ng

RT: 20.72 min Scan# 2967

Delta R.T. -0.01 min

Lab File: BG033819.D

Acq: 16 Apr 2018 16:50

Instrument :

BNA\_G

ClientSampleId :

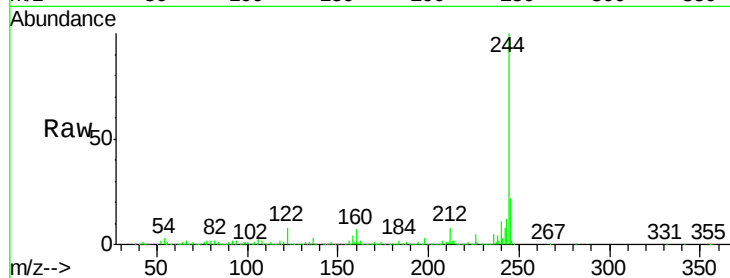
Tot Ion:244 Resp: 1414473

Ion Ratio Lower Upper

244 100

212 8.5 5.8 8.8

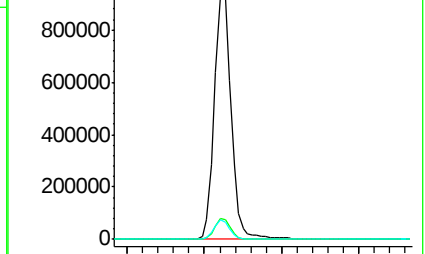
122 8.0 7.0 10.4



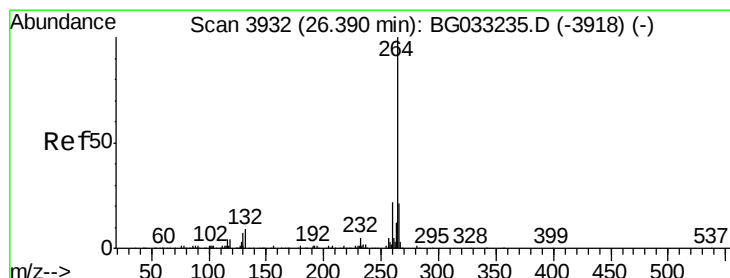
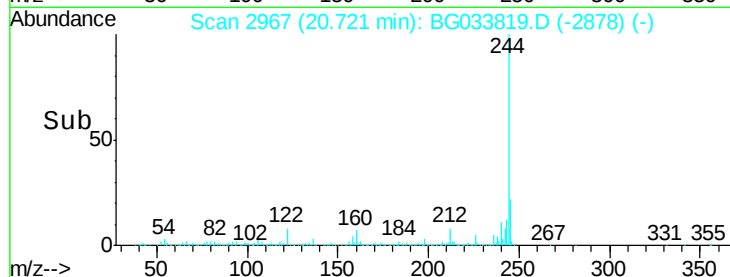
Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



Time-->



#86

Perylene-d12

Concen: 20.000 ng

RT: 26.32 min Scan# 3920

Delta R.T. -0.01 min

Lab File: BG033819.D

Acq: 16 Apr 2018 16:50

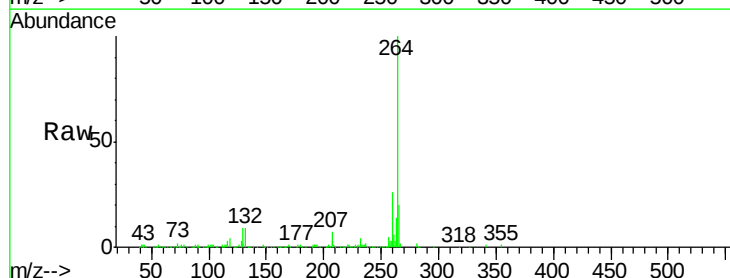
Tgt Ion:264 Resp: 348833

Ion Ratio Lower Upper

264 100

260 25.8 17.4 26.0

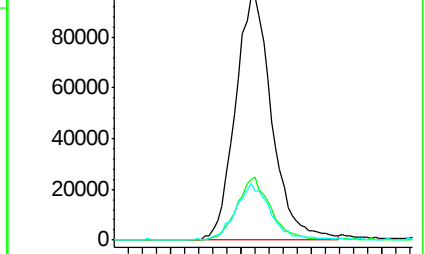
265 20.1 17.7 26.5



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



Time-->

