

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG072718\  
 Data File : BG035938.D  
 Acq On : 27 Jul 2018 15:26  
 Operator : JU/SJ  
 Sample : PB111517BL  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Jul 27 17:05:57 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG071218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 25 11:04:14 2018  
 Response via : Initial Calibration

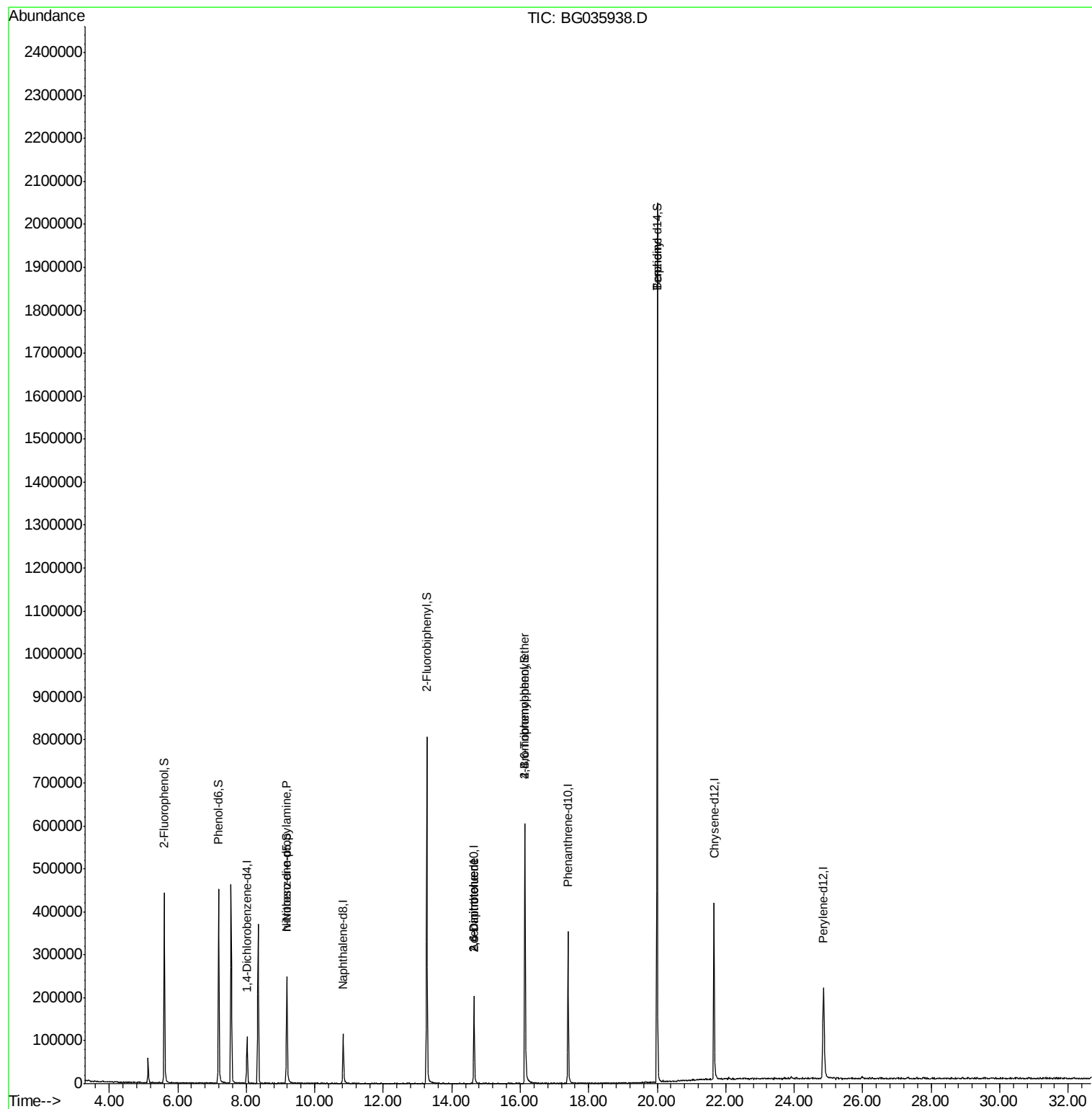
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.02  | 152  | 31470    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.83 | 136  | 105351   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 14.65 | 164  | 82823    | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 17.39 | 188  | 261699   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 21.66 | 240  | 294034   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 24.85 | 264  | 263382   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.60  | 112  | 204833   | 108.06 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.19  | 99   | 295510   | 104.49 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.19  | 82   | 184890   | 73.31  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 16.14 | 330  | 130276   | 119.34 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 13.27 | 172  | 481646   | 77.91  | ng    | 0.00     |
| 78) Terphenyl-d14              | 20.00 | 244  | 1032461  | 77.40  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.19  | 70   | 24480    | 10.279 | ng    | # 72     |
| 50) 2,6-Dinitrotoluene         | 14.64 | 165  | 11890    | 8.046  | ng    | # 18     |
| 56) 2,4-Dinitrotoluene         | 14.64 | 165  | 11891    | 5.609  | ng    | # 16     |
| 66) 4-Bromophenyl-phenylether  | 16.14 | 248  | 10025    | 3.302  | ng    | # 1      |
| 76) Benzidine                  | 20.00 | 184  | 16804    | 2.174  | ng    | # 90     |

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

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BNA\_G  
ClientSampleId :

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG071218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jul 25 11:04:14 2018  
Response via : Initial Calibration



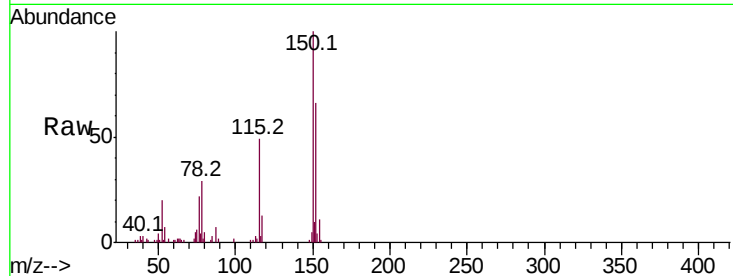


#1

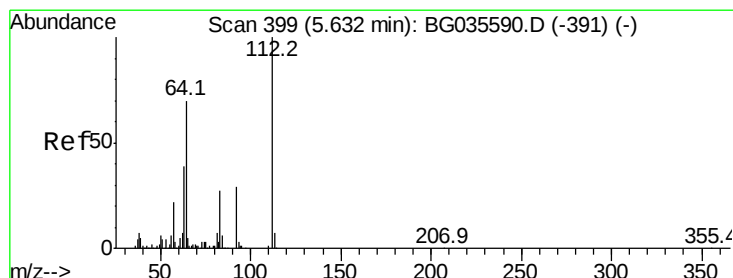
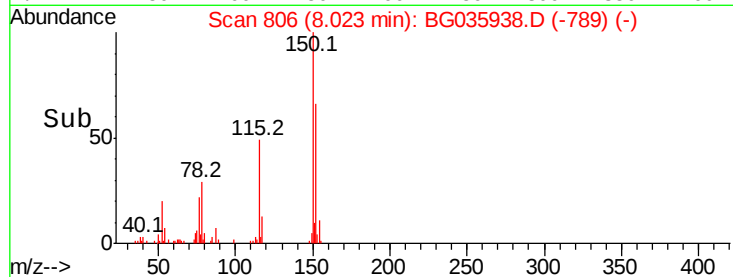
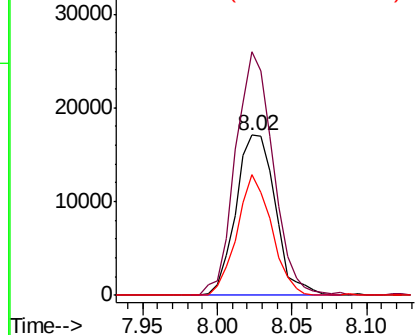
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.02 min Scan# 806  
Delta R.T. -0.00 min  
Lab File: BG035938.D  
Acq: 27 Jul 2018 15:26

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 31470  
Ion Ratio Lower Upper  
152 100  
150 152.0 126.6 189.8  
115 75.1 53.0 79.4



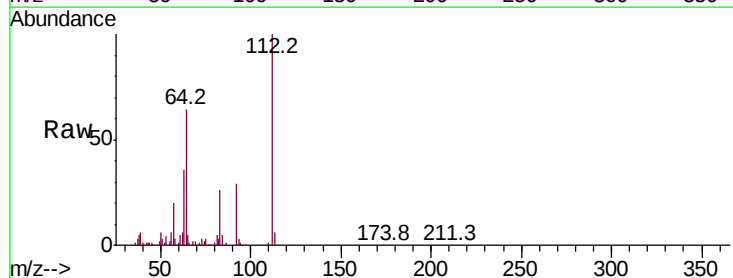
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



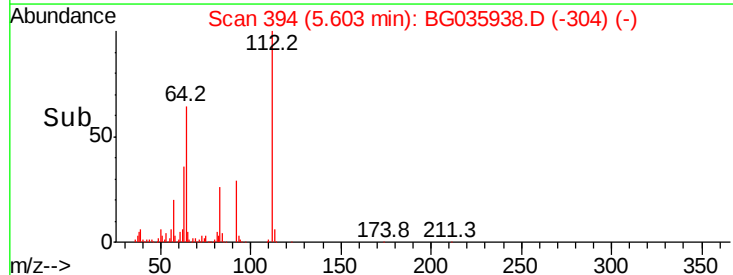
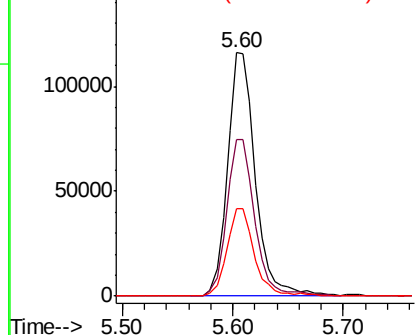
#5

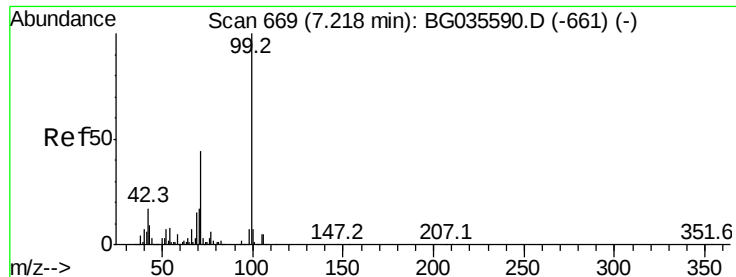
2-Fluorophenol  
Concen: 108.062 ng  
RT: 5.60 min Scan# 394  
Delta R.T. -0.00 min  
Lab File: BG035938.D  
Acq: 27 Jul 2018 15:26

Tgt Ion:112 Resp: 204833  
Ion Ratio Lower Upper  
112 100  
64 64.1 56.3 84.5  
63 36.0 30.1 45.1



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BG0  
Ion 63.00 (62.70 to 63.70): BG0





#7

Phenol-d6

Concen: 104.491 ng

RT: 7.19 min Scan# 665

Delta R.T. -0.00 min

Lab File: BG035938.D

Acq: 27 Jul 2018 15:26

Instrument :

BNA\_G

ClientSampleId :

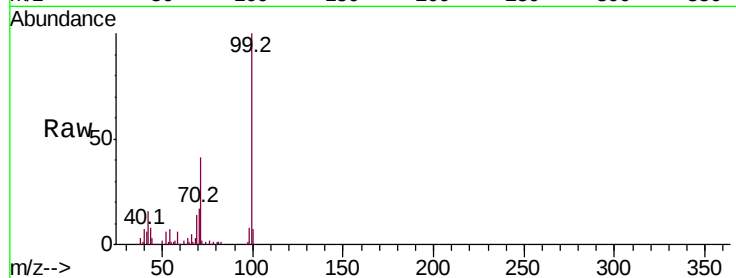
Tot Ion: 99 Resp: 295510

Ion Ratio Lower Upper

99 100

42 15.6 14.1 21.1

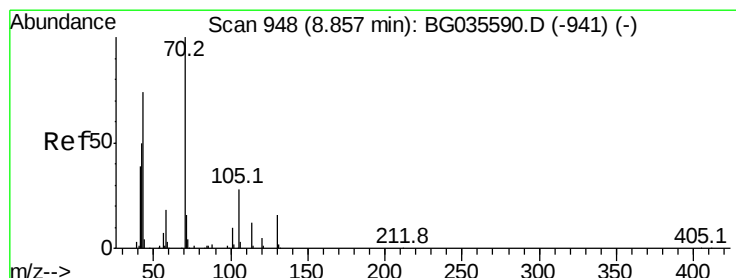
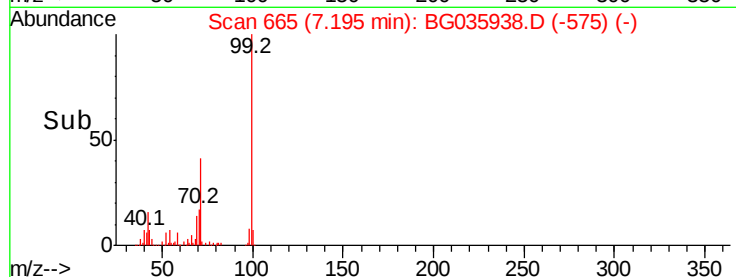
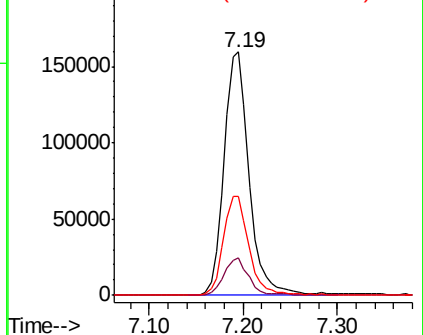
71 40.9 26.1 39.1#



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



#19

n-Nitroso-di-n-propylamine

Concen: 10.279 ng

RT: 9.19 min Scan# 1004

Delta R.T. 0.36 min

Lab File: BG035938.D

Acq: 27 Jul 2018 15:26

Tgt Ion: 70 Resp: 24480

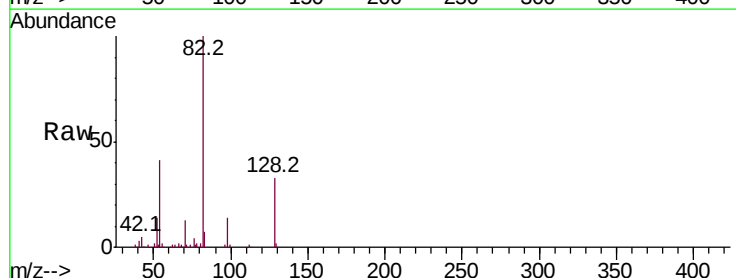
Ion Ratio Lower Upper

70 100

42 41.3 49.1 73.7#

101 0.0 8.5 12.7#

130 2.1 13.4 20.0#

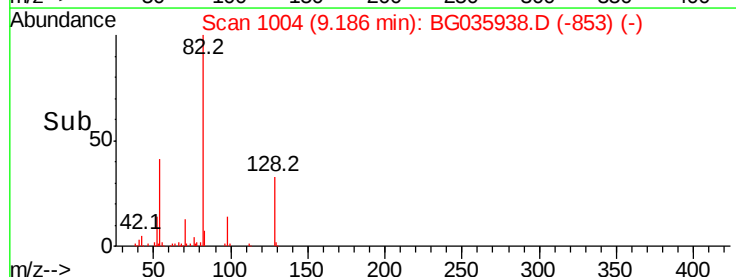
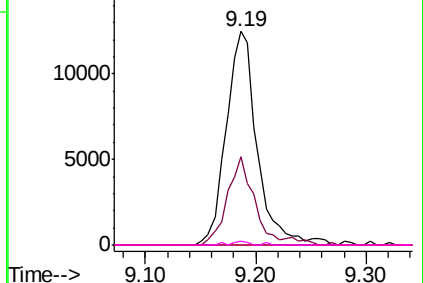


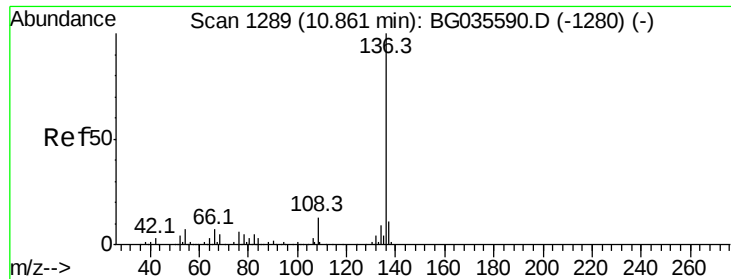
Abundance Ion 70.00 (69.70 to 70.70): BGC

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

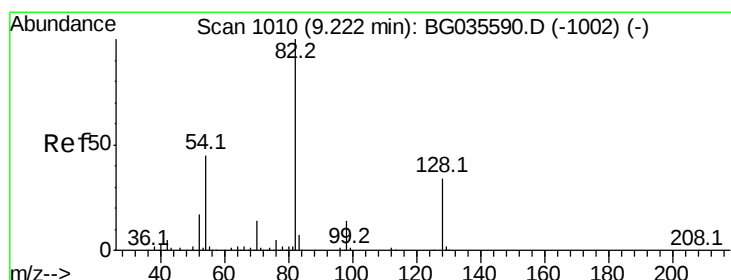
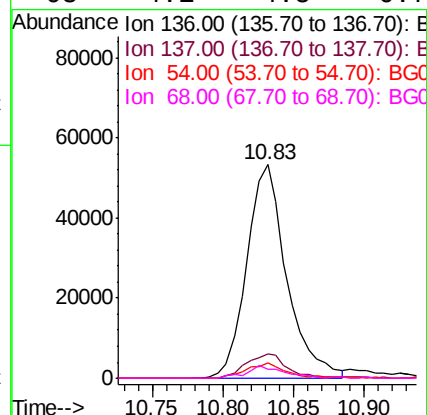
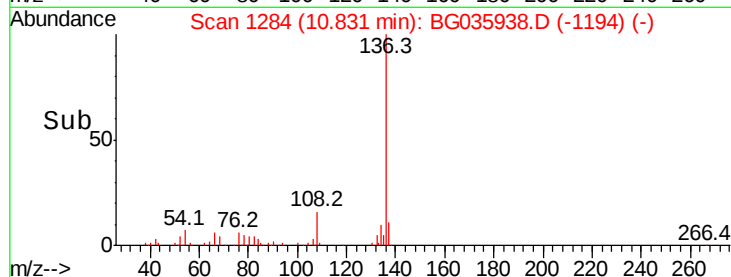
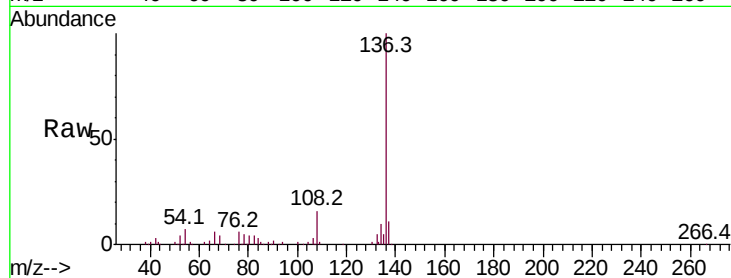




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.83 min Scan# 1284  
Delta R.T. -0.00 min  
Lab File: BG035938.D  
Acq: 27 Jul 2018 15:26

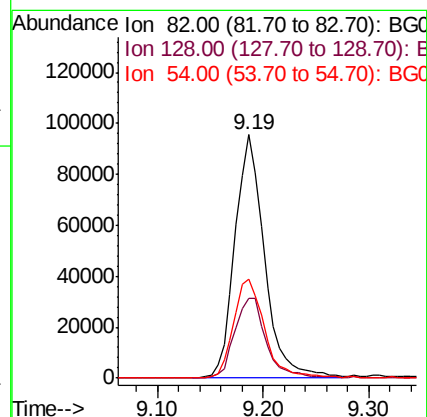
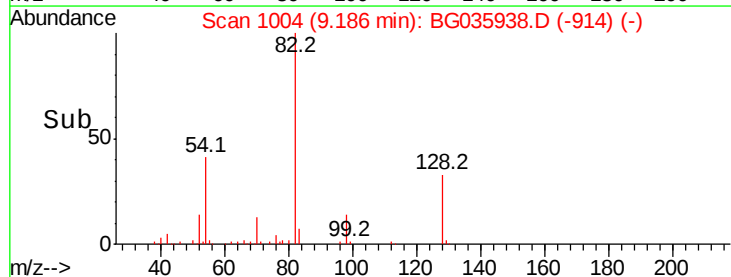
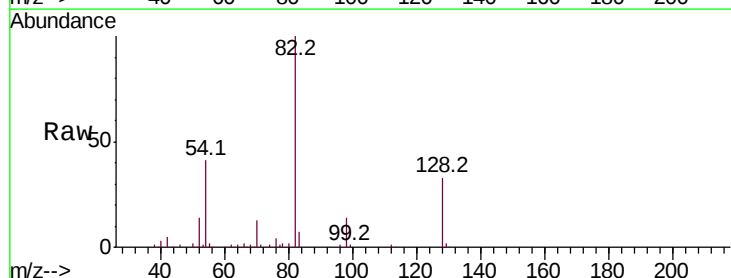
Instrument :  
BNA\_G  
ClientSampleId :

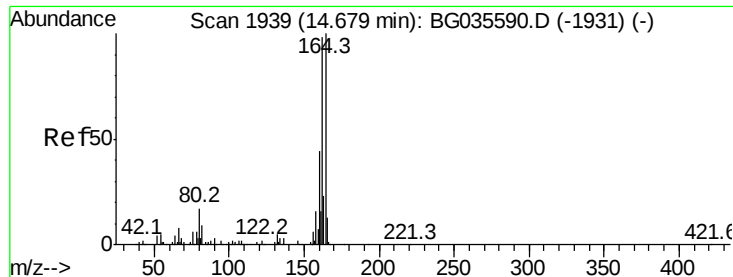
|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 105351      |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 11.4  | 9.2 13.8    |
| 54          | 6.9   | 10.3 15.5#  |
| 68          | 4.1   | 4.5 6.7#    |



#23  
Nitrobenzene-d5  
Concen: 73.314 ng  
RT: 9.19 min Scan# 1004  
Delta R.T. -0.00 min  
Lab File: BG035938.D  
Acq: 27 Jul 2018 15:26

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 184890      |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 32.9  | 29.7 44.5   |
| 54          | 40.6  | 43.1 64.7#  |

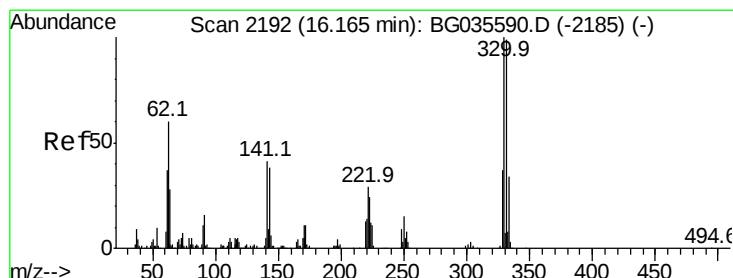
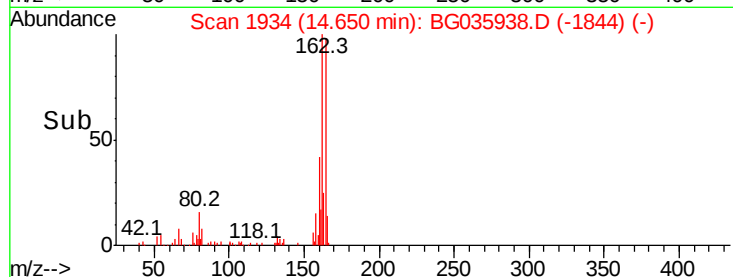
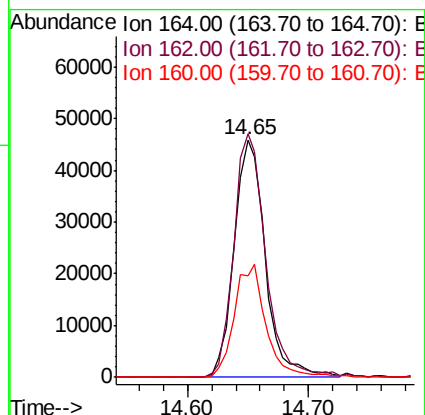
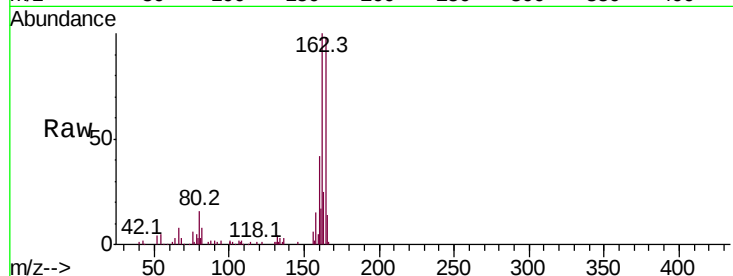




#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.65 min Scan# 1934  
Delta R.T. -0.00 min  
Lab File: BG035938.D  
Acq: 27 Jul 2018 15:26

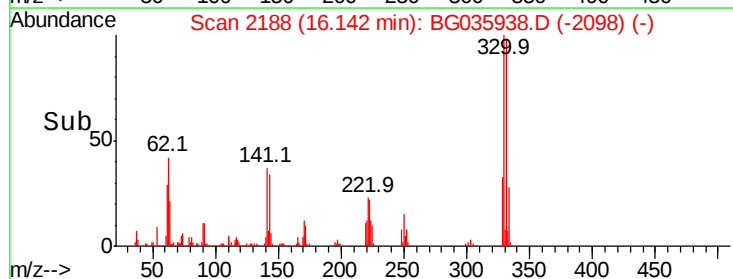
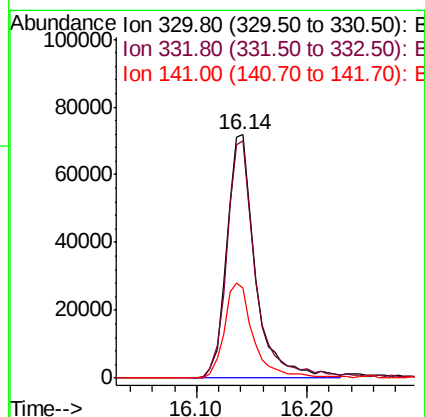
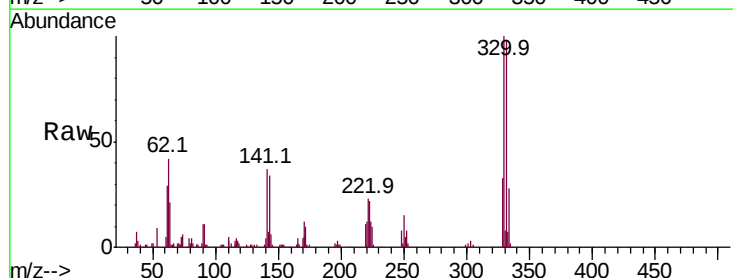
Instrument :  
BNA\_G  
ClientSampleId :

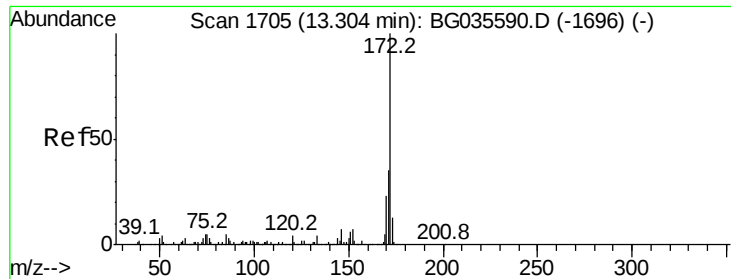
Tot Ion:164 Resp: 82823  
Ion Ratio Lower Upper  
164 100  
162 102.4 78.8 118.2  
160 42.7 35.4 53.0



#41  
2,4,6-Tribromophenol  
Concen: 119.337 ng  
RT: 16.14 min Scan# 2188  
Delta R.T. -0.00 min  
Lab File: BG035938.D  
Acq: 27 Jul 2018 15:26

Tgt Ion:330 Resp: 130276  
Ion Ratio Lower Upper  
330 100  
332 99.0 77.0 115.6  
141 39.4 25.2 37.8#





#44

2-Fluorobiphenyl

Concen: 77.911 ng

RT: 13.27 min Scan# 1699

Delta R.T. -0.01 min

Lab File: BG035938.D

Acq: 27 Jul 2018 15:26

Instrument :

BNA\_G

ClientSampleId :

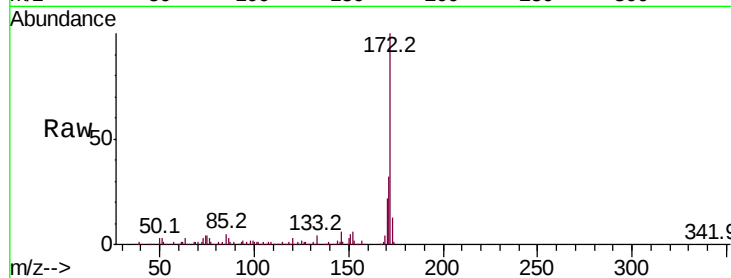
Tot Ion:172 Resp: 481646

Ion Ratio Lower Upper

172 100

171 32.4 30.0 45.0

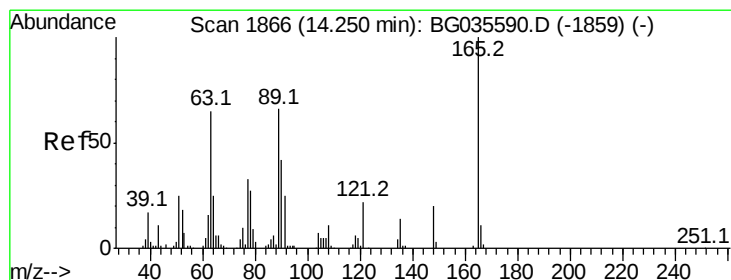
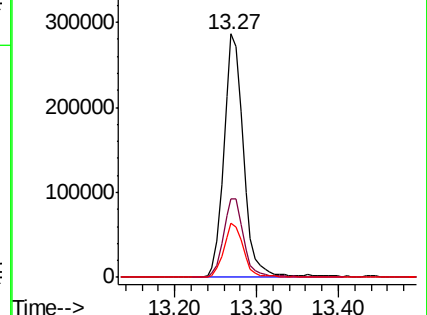
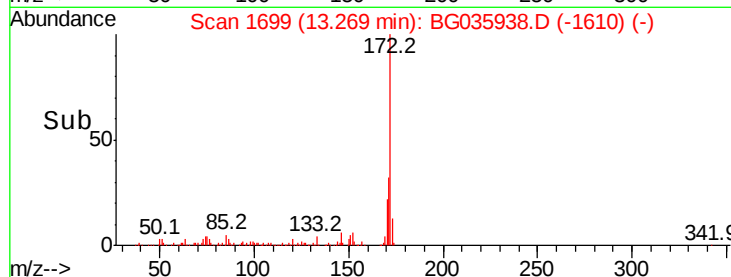
170 22.4 19.5 29.3



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: 8.046 ng

RT: 14.64 min Scan# 1933

Delta R.T. 0.42 min

Lab File: BG035938.D

Acq: 27 Jul 2018 15:26

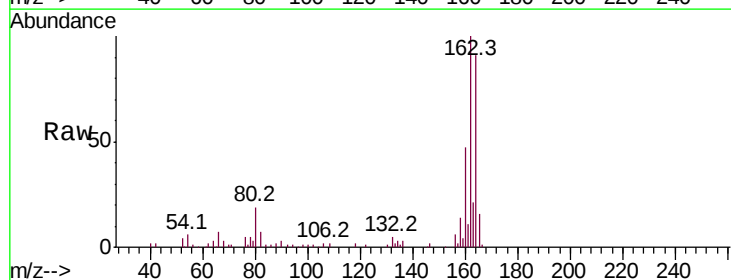
Tgt Ion:165 Resp: 11890

Ion Ratio Lower Upper

165 100

63 0.0 52.7 79.1#

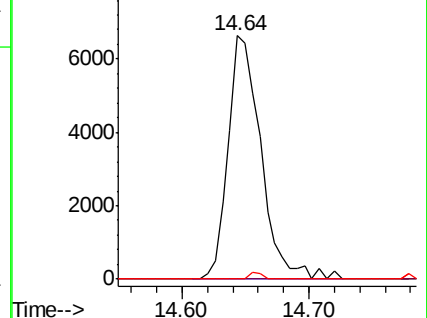
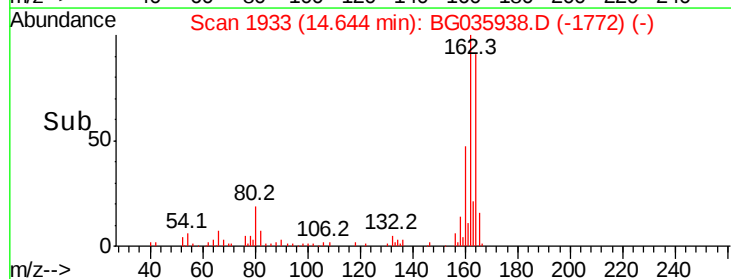
89 0.0 49.2 73.8#

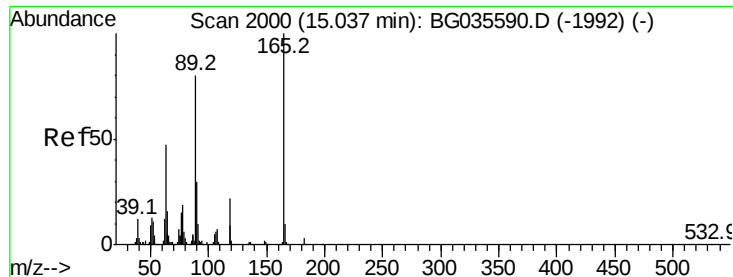


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

Ion 89.00 (88.70 to 89.70): BGC

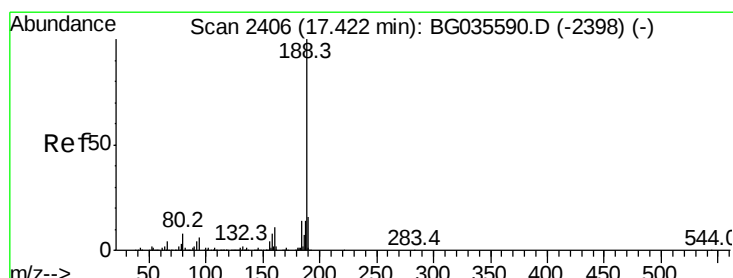
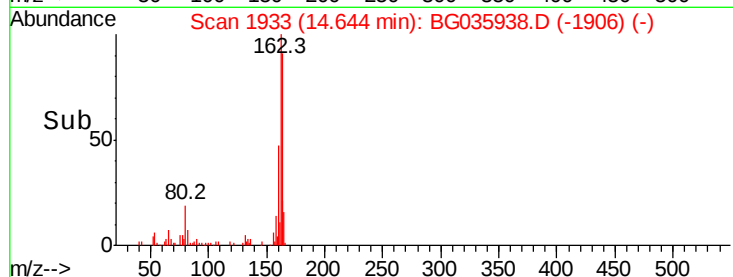
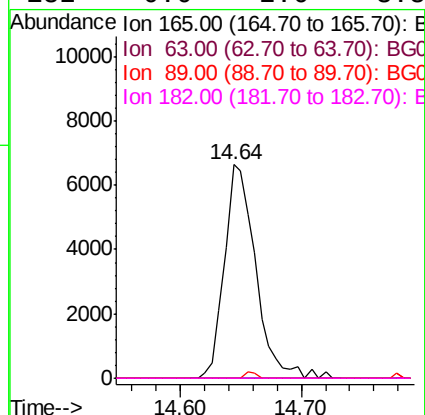
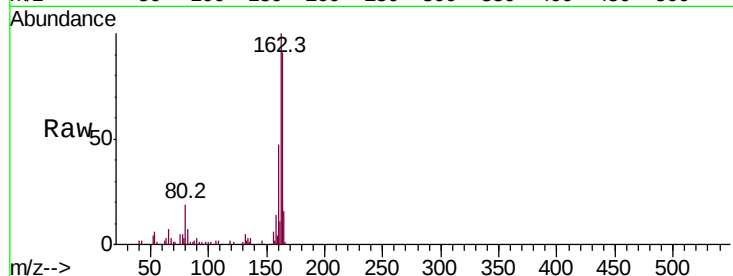




#56  
2,4-Dinitrotoluene  
Concen: 5.609 ng  
RT: 14.64 min Scan# 1933  
Delta R.T. -0.37 min  
Lab File: BG035938.D  
Acq: 27 Jul 2018 15:26

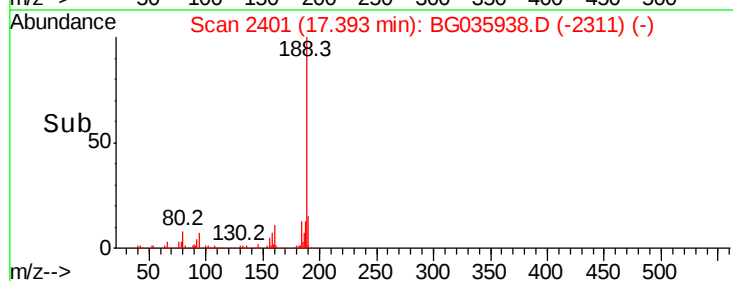
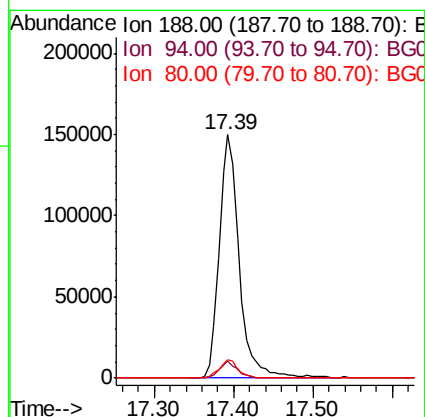
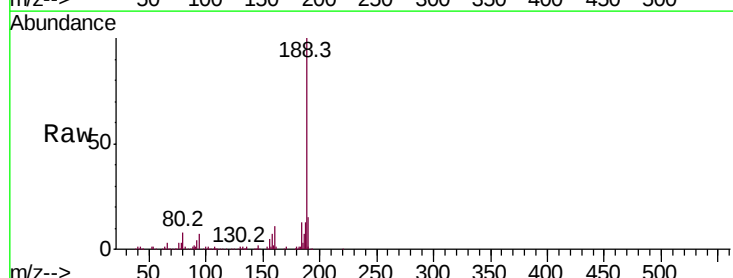
Instrument :  
BNA\_G  
ClientSampleId :

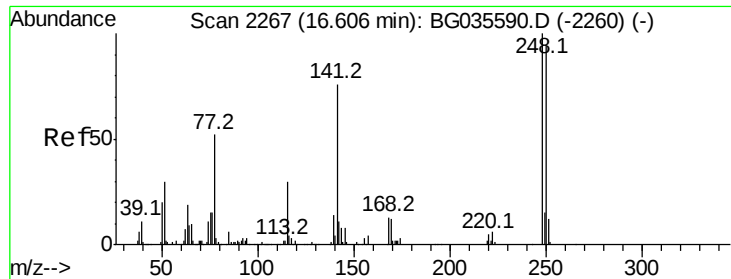
Tot Ion:165 Resp: 11891  
Ion Ratio Lower Upper  
165 100  
63 0.0 42.0 63.0#  
89 0.0 66.9 100.3#  
182 0.0 2.6 3.8#



#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.39 min Scan# 2401  
Delta R.T. -0.00 min  
Lab File: BG035938.D  
Acq: 27 Jul 2018 15:26

Tgt Ion:188 Resp: 261699  
Ion Ratio Lower Upper  
188 100  
94 6.8 6.9 10.3#  
80 7.8 7.7 11.5

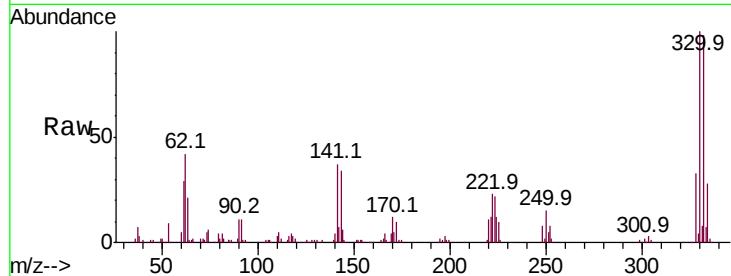




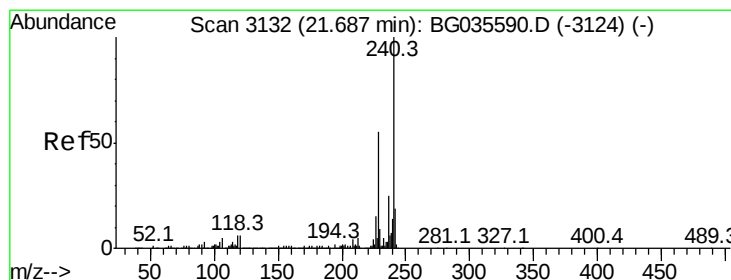
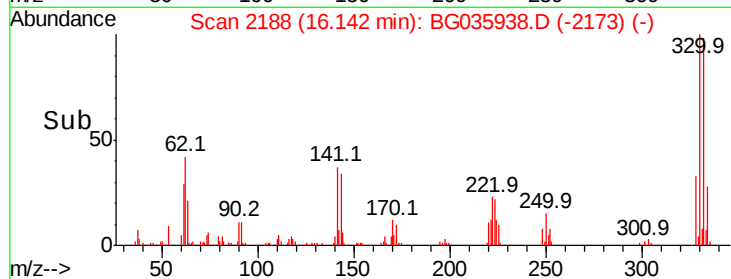
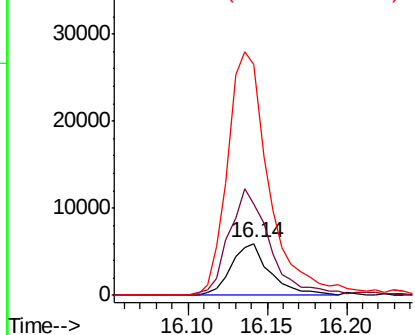
#66  
4-Bromophenyl-phenylether  
Concen: 3.302 ng  
RT: 16.14 min Scan# 2188  
Delta R.T. -0.44 min  
Lab File: BG035938.D  
Acq: 27 Jul 2018 15:26

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:248 Resp: 10025  
Ion Ratio Lower Upper  
248 100  
250 175.6 77.1 115.7#  
141 445.9 50.8 76.2#

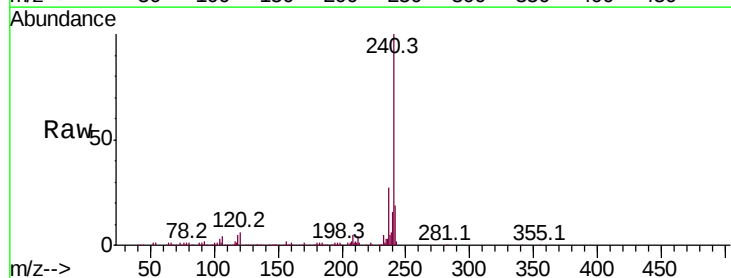


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

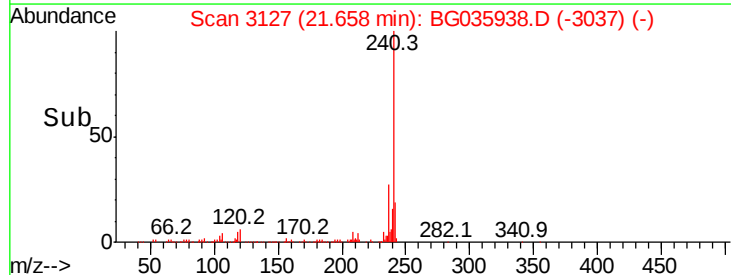
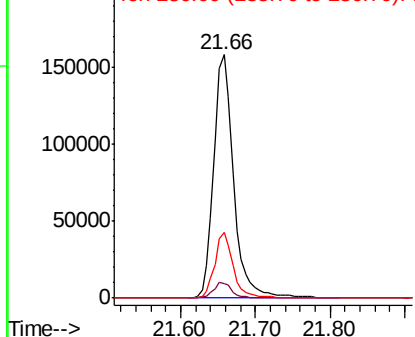


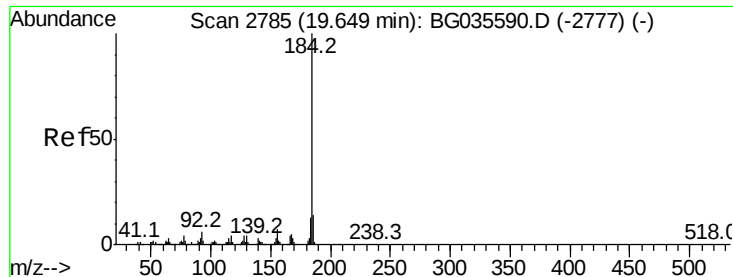
#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.66 min Scan# 3127  
Delta R.T. -0.00 min  
Lab File: BG035938.D  
Acq: 27 Jul 2018 15:26

Tgt Ion:240 Resp: 294034  
Ion Ratio Lower Upper  
240 100  
120 5.9 6.8 10.2#  
236 27.2 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: 2.174 ng

RT: 20.00 min Scan# 2844

Delta R.T. 0.37 min

Lab File: BG035938.D

Acq: 27 Jul 2018 15:26

Instrument :

BNA\_G

ClientSampleId :

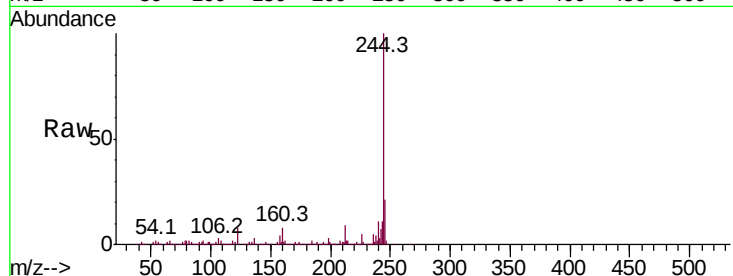
Tot Ion:184 Resp: 16804

Ion Ratio Lower Upper

184 100

185 16.7 11.1 16.7#

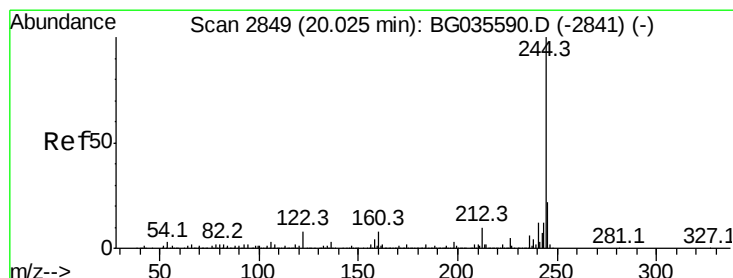
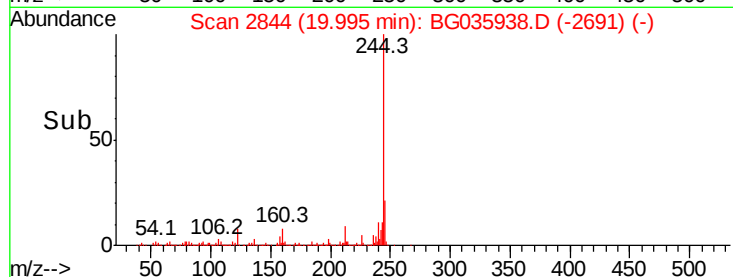
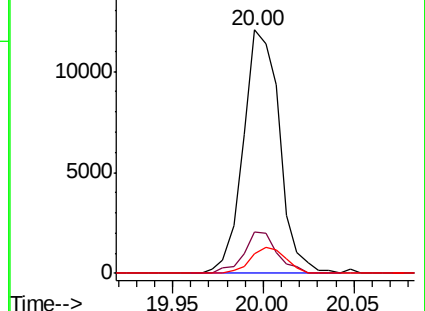
183 8.3 10.6 16.0#



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: 77.401 ng

RT: 20.00 min Scan# 2845

Delta R.T. -0.00 min

Lab File: BG035938.D

Acq: 27 Jul 2018 15:26

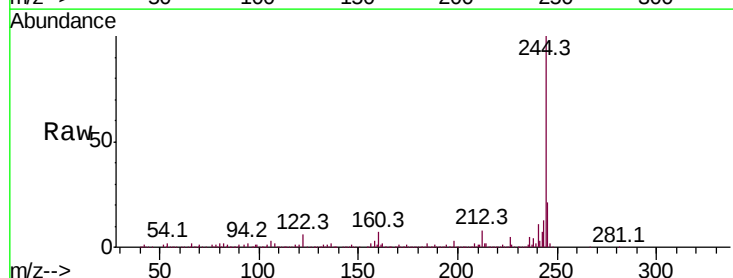
Tgt Ion:244 Resp: 1032461

Ion Ratio Lower Upper

244 100

212 8.2 5.8 8.8

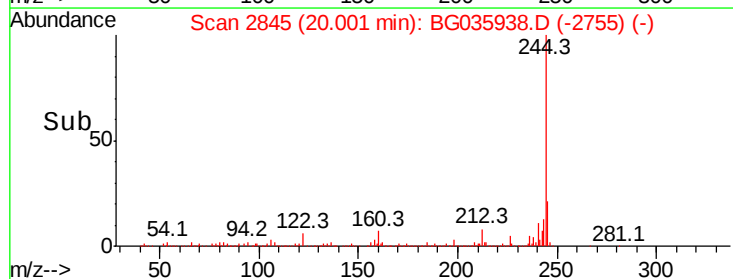
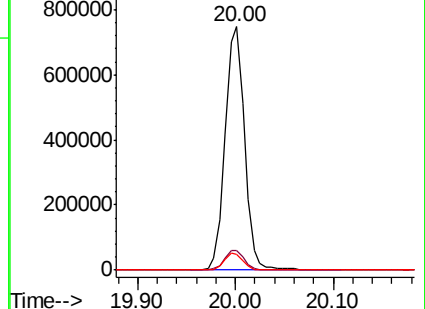
122 6.5 7.0 10.4#

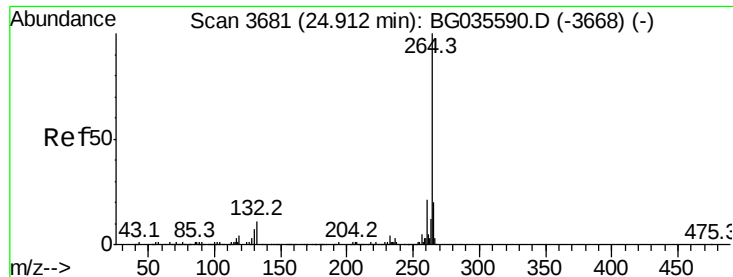


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

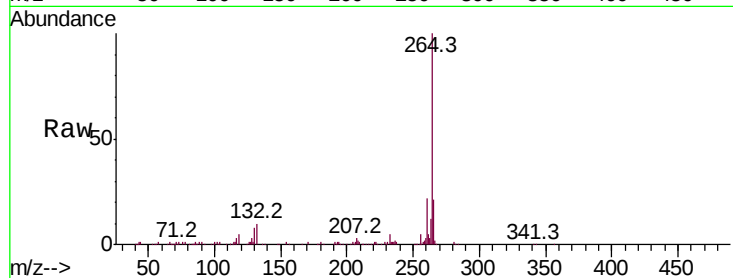




#86  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 24.85 min Scan# 3671  
 Delta R.T. -0.01 min  
 Lab File: BG035938.D  
 Acq: 27 Jul 2018 15:26

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.2  | 17.4  | 26.0  |
| 265     | 21.2  | 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

