

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA G\DATA\BG031918\  
 Data File : BG033250.D  
 Acq On : 19 Mar 2018 21:36  
 Operator : SJ/JU  
 Sample : J1953-01  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Mar 20 03:40:02 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG031918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Mar 19 16:48:53 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.90  | 152  | 33986    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 11.78 | 136  | 140364   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 15.51 | 164  | 111887   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 18.24 | 188  | 313870   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 22.59 | 240  | 328752   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 26.39 | 264  | 331290   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 6.31  | 112  | 76472    | 42.19  | ng    | 0.00     |
| 7) Phenol-d6                | 8.01  | 99   | 67732    | 21.75  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 10.09 | 82   | 317926   | 104.06 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 16.98 | 330  | 173253   | 103.53 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 14.14 | 172  | 774823   | 99.97  | ng    | 0.00     |
| 78) Terphenyl-d14           | 20.76 | 244  | 1399050  | 91.01  | ng    | 0.00     |

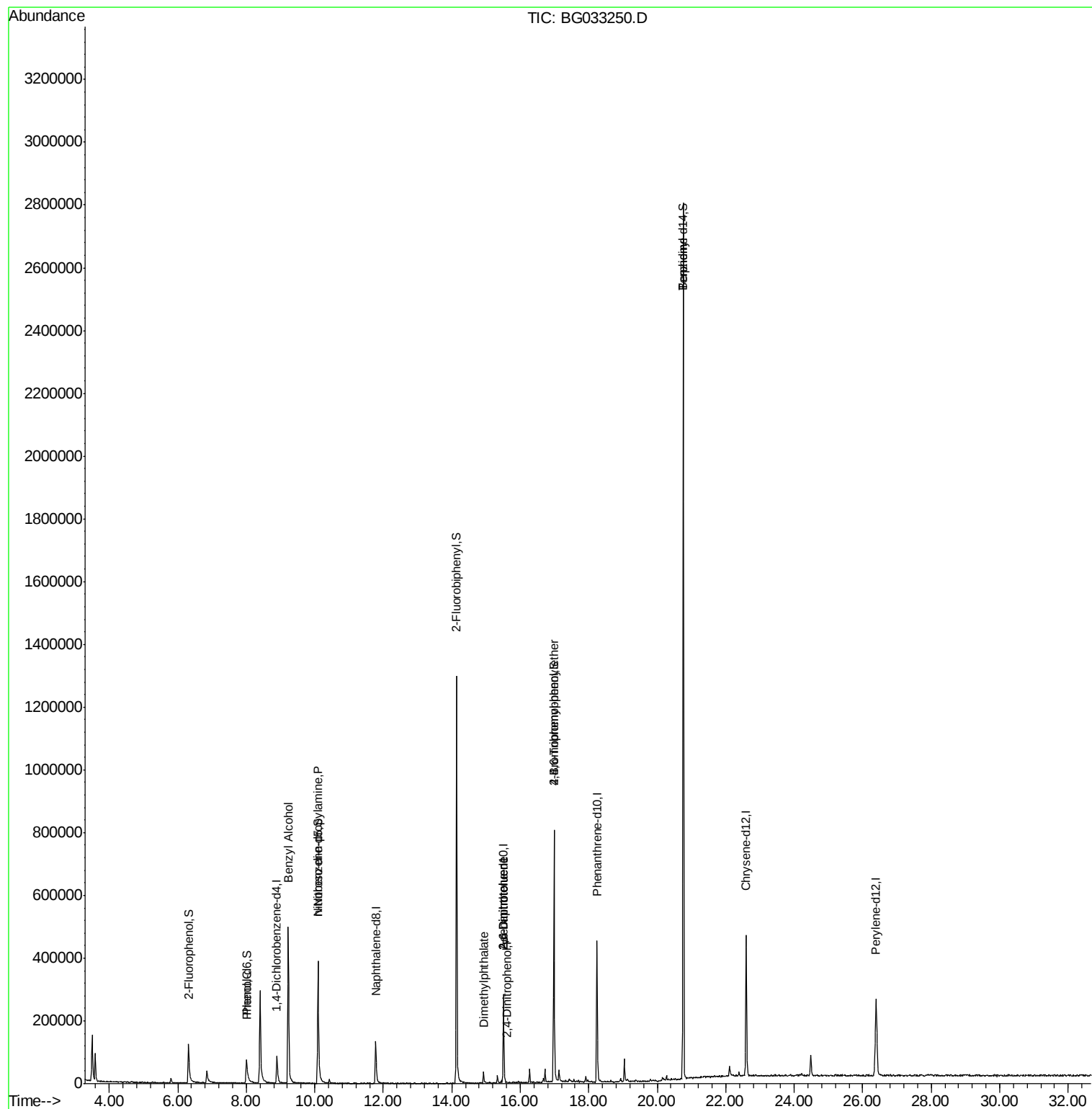
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 10) Phenol                     | 8.02  | 94   | 15349    | 4.992  | ng    | 83     |
| 15) Benzyl Alcohol             | 9.22  | 79   | 5237     | 2.136  | ng    | # 53   |
| 19) n-Nitroso-di-n-propylamine | 10.10 | 70   | 42010    | 18.410 | ng    | # 71   |
| 49) Dimethylphthalate          | 14.93 | 163  | 25259    | 2.594  | ng    | # 92   |
| 50) 2,6-Dinitrotoluene         | 15.51 | 165  | 14051    | 7.057  | ng    | # 18   |
| 53) 2,4-Dinitrophenol          | 15.61 | 184  | 54       | 7.690  | ng    | # 1    |
| 56) 2,4-Dinitrotoluene         | 15.51 | 165  | 14107    | 4.812  | ng    | # 16   |
| 66) 4-Bromophenyl-phenylether  | 16.98 | 248  | 12594    | 3.417  | ng    | # 1    |
| 76) Benzidine                  | 20.76 | 184  | 23690    | 2.657  | ng    | # 94   |

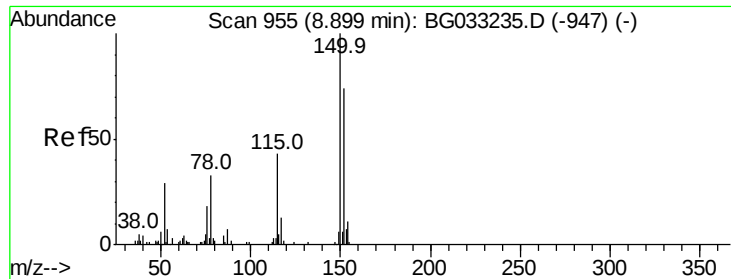
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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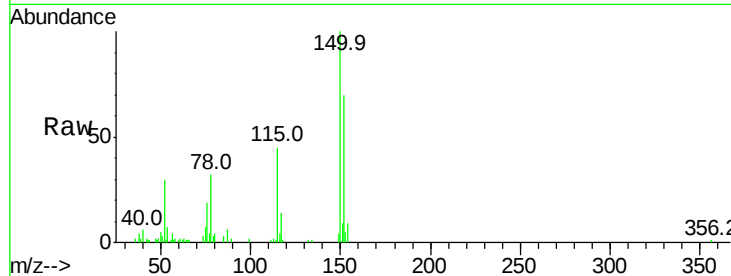


#1

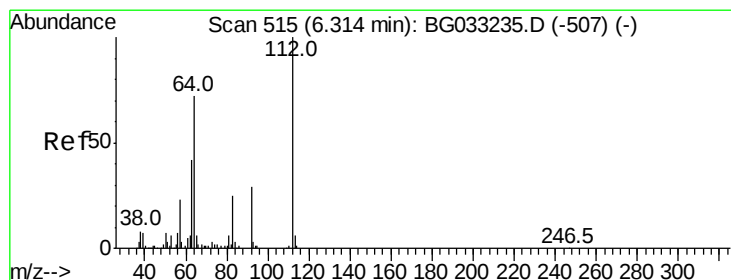
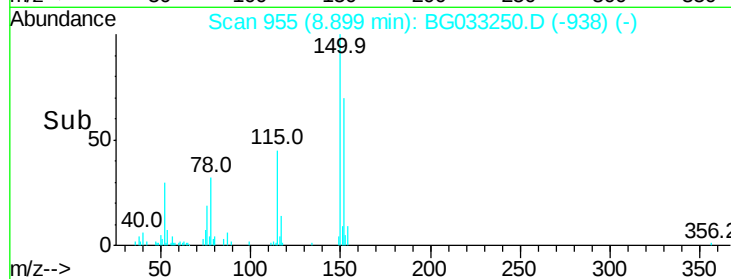
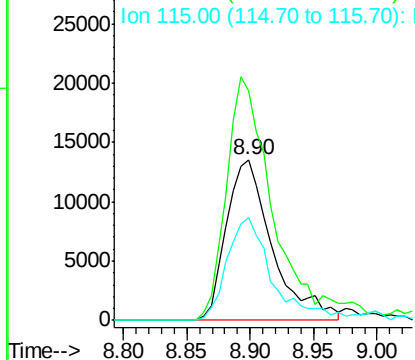
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.90 min Scan# 955  
Delta R.T. -0.00 min  
Lab File: BG033250.D  
Acq: 19 Mar 2018 21:36

Instrument :  
BNA\_G  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 142.7 | 126.6 | 189.8 |
| 115     | 64.2  | 53.0  | 79.4  |



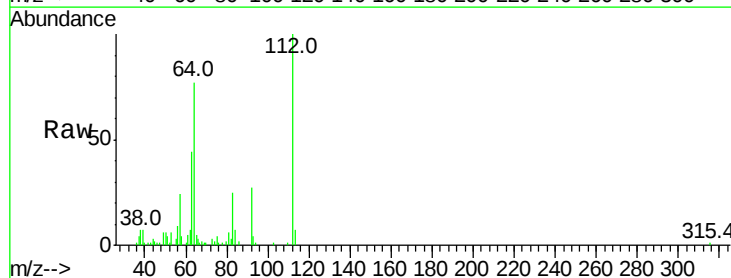
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



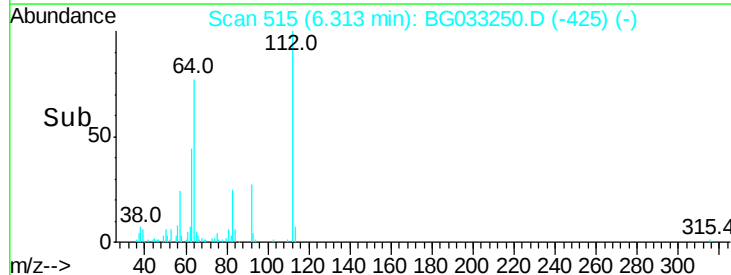
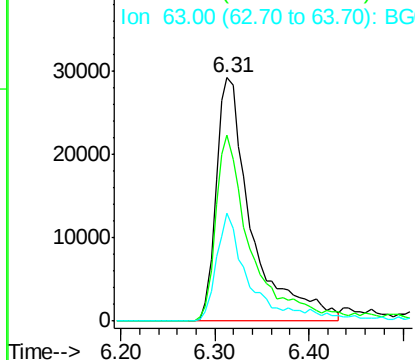
#5

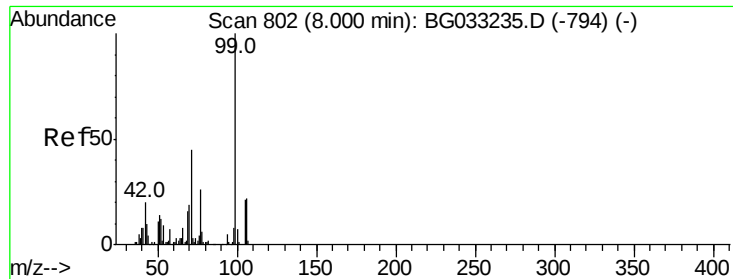
2-Fluorophenol  
Concen: 42.192 ng  
RT: 6.31 min Scan# 515  
Delta R.T. -0.00 min  
Lab File: BG033250.D  
Acq: 19 Mar 2018 21:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 76.6  | 56.3  | 84.5  |
| 63      | 44.2  | 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: 21.749 ng

RT: 8.01 min Scan# 803

Delta R.T. 0.01 min

Lab File: BG033250.D

Acq: 19 Mar 2018 21:36

Instrument :

BNA\_G

ClientSampleId :

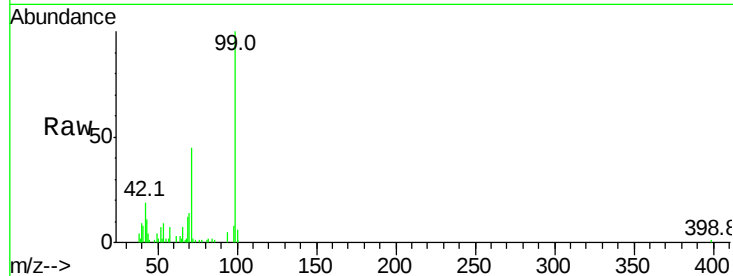
Tot Ion: 99 Resp: 67732

Ion Ratio Lower Upper

99 100

42 19.1 14.1 21.1

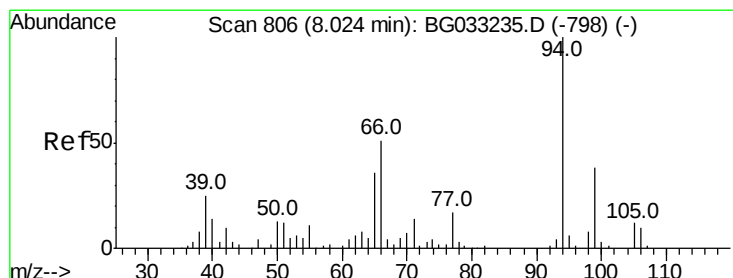
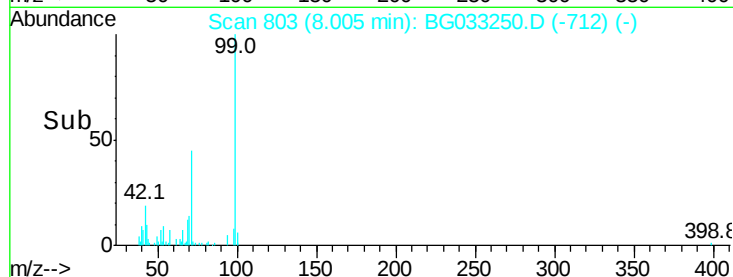
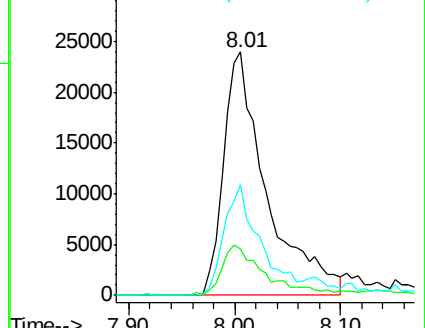
71 45.4 26.1 39.1#



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



#10

Phenol

Concen: 4.992 ng

RT: 8.02 min Scan# 806

Delta R.T. -0.00 min

Lab File: BG033250.D

Acq: 19 Mar 2018 21:36

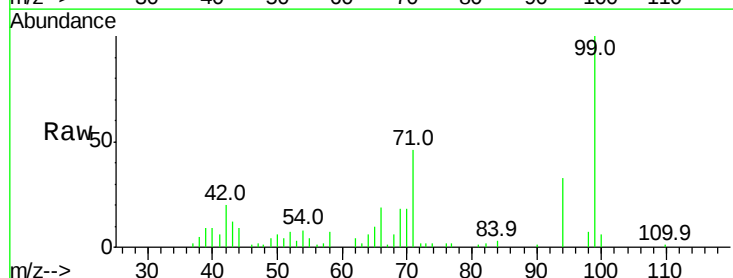
Tgt Ion: 94 Resp: 15349

Ion Ratio Lower Upper

94 100

65 29.7 11.9 51.9

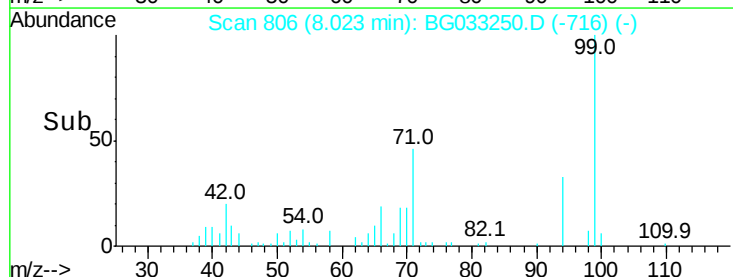
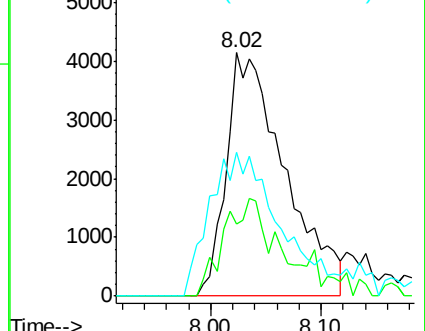
66 59.1 22.2 62.2

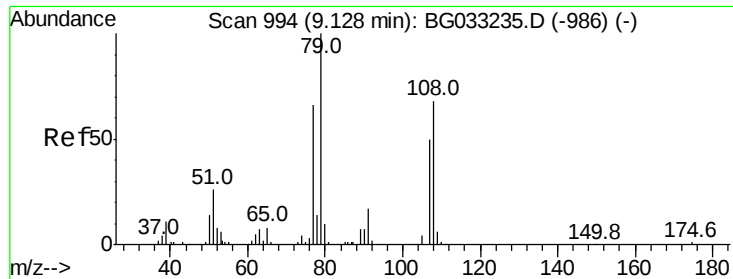


Abundance Ion 94.00 (93.70 to 94.70): BGC

Ion 65.00 (64.70 to 65.70): BGC

Ion 66.00 (65.70 to 66.70): BGC





#15

Benzyl Alcohol

Concen: 2.136 ng

RT: 9.22 min Scan# 1010

Delta R.T. 0.09 min

Lab File: BG033250.D

Acq: 19 Mar 2018 21:36

Instrument :

BNA\_G

ClientSampleId :

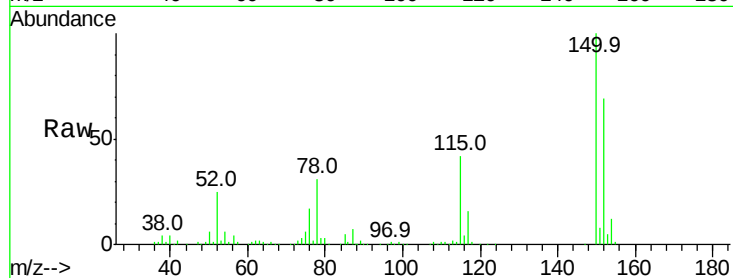
Tot Ion: 79 Resp: 5237

Ion Ratio Lower Upper

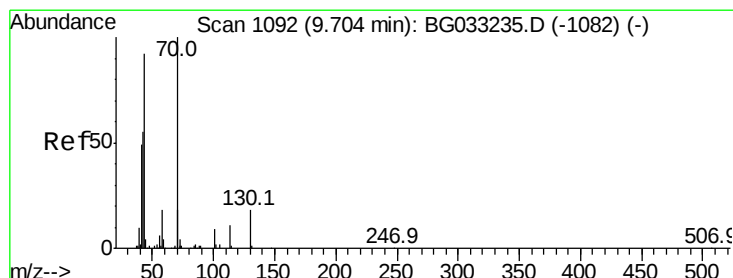
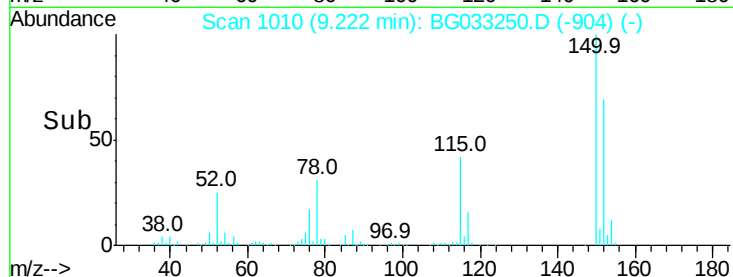
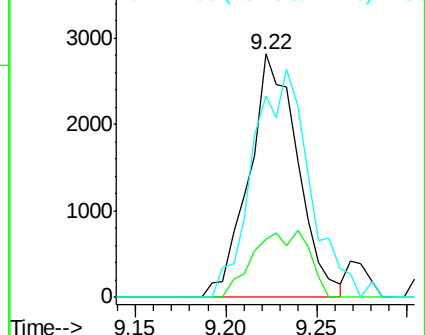
79 100

108 23.6 57.2 85.8#

77 82.7 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: 18.410 ng

RT: 10.10 min Scan# 1159

Delta R.T. 0.39 min

Lab File: BG033250.D

Acq: 19 Mar 2018 21:36

Tgt Ion: 70 Resp: 42010

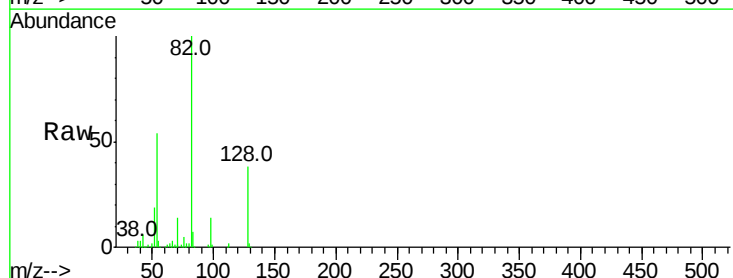
Ion Ratio Lower Upper

70 100

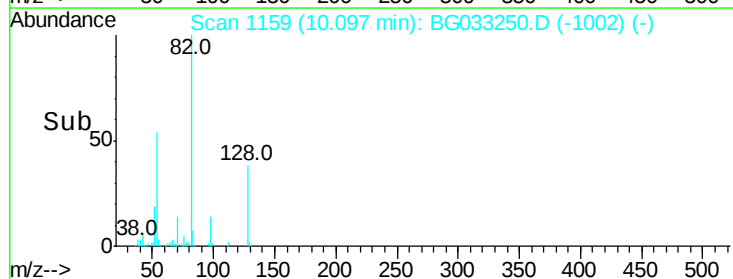
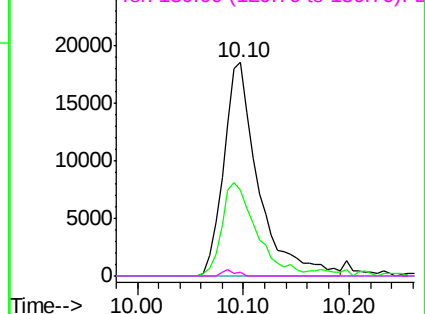
42 40.4 49.1 73.7#

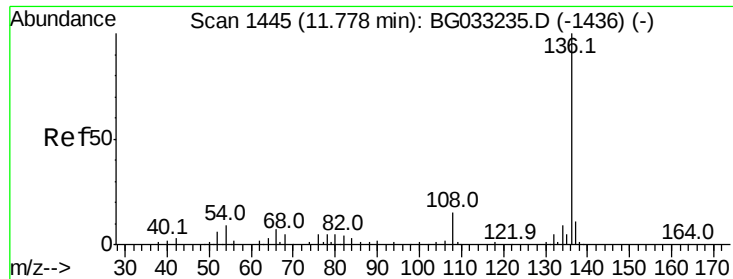
101 0.0 8.5 12.7#

130 1.6 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: 11.78 min Scan# 1445

Delta R.T. -0.01 min

Lab File: BG033250.D

Acq: 19 Mar 2018 21:36

Instrument :

BNA\_G

ClientSampleId :

Tot Ion:136 Resp: 140364

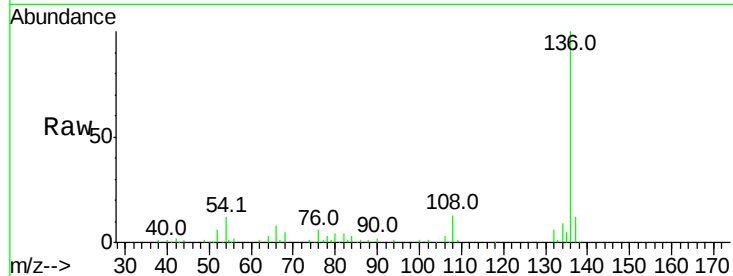
Ion Ratio Lower Upper

136 100

137 12.1 9.2 13.8

54 12.5 10.3 15.5

68 4.7 4.5 6.7

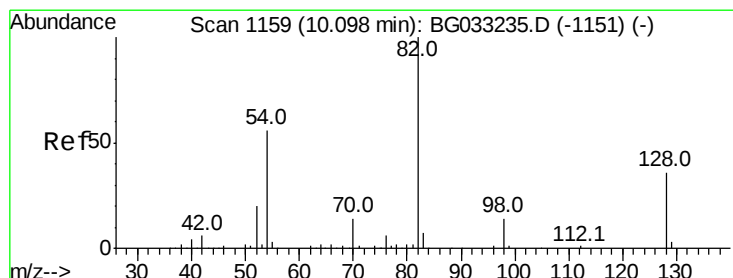
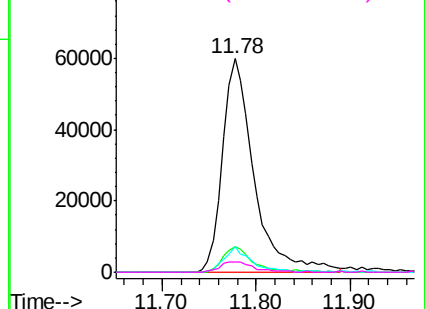
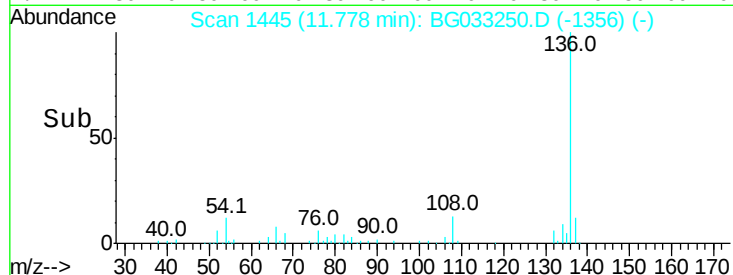


Abundance Ion 136.00 (135.70 to 136.70): E

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: 104.064 ng

RT: 10.09 min Scan# 1158

Delta R.T. -0.01 min

Lab File: BG033250.D

Acq: 19 Mar 2018 21:36

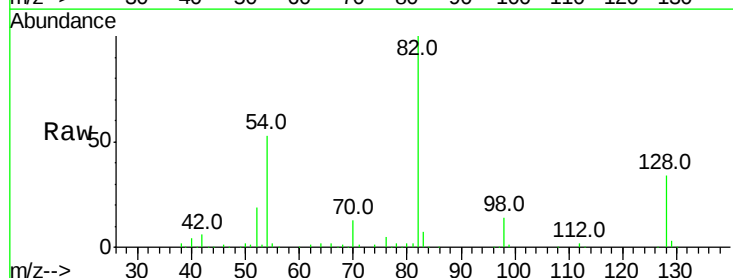
Tgt Ion: 82 Resp: 317926

Ion Ratio Lower Upper

82 100

128 33.7 29.7 44.5

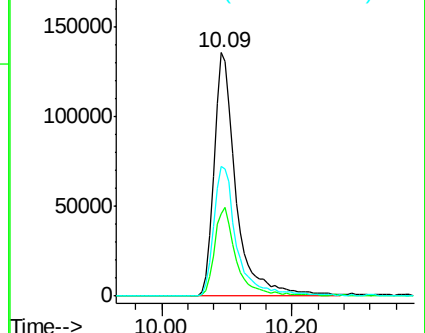
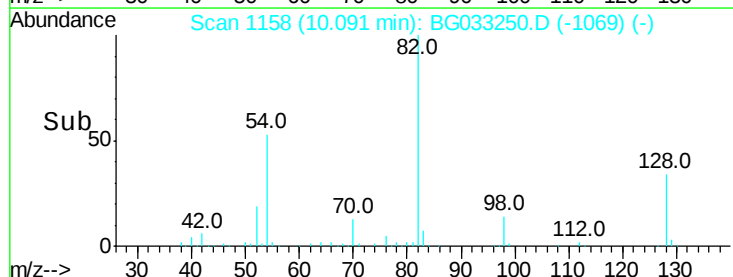
54 53.5 43.1 64.7

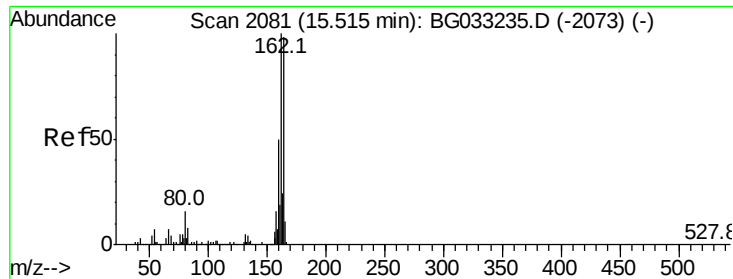


Abundance Ion 82.00 (81.70 to 82.70): BGC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BGC

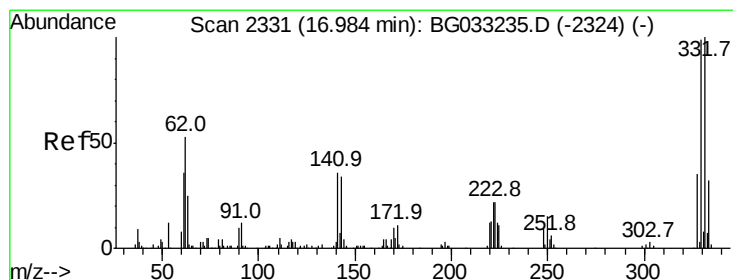
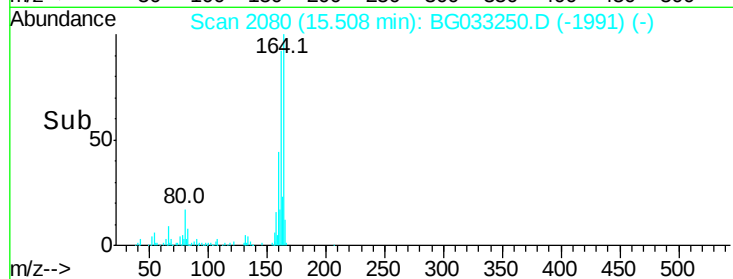
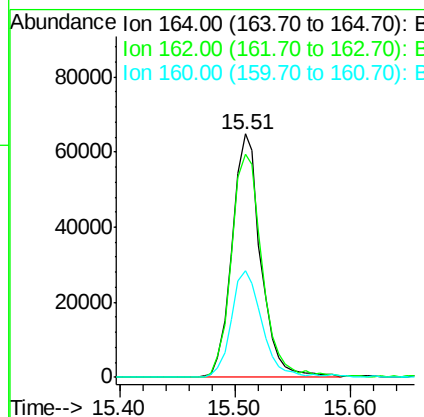
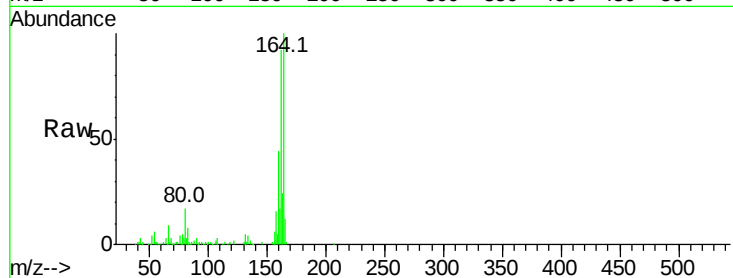




#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 15.51 min Scan# 2080  
Delta R.T. -0.01 min  
Lab File: BG033250.D  
Acq: 19 Mar 2018 21:36

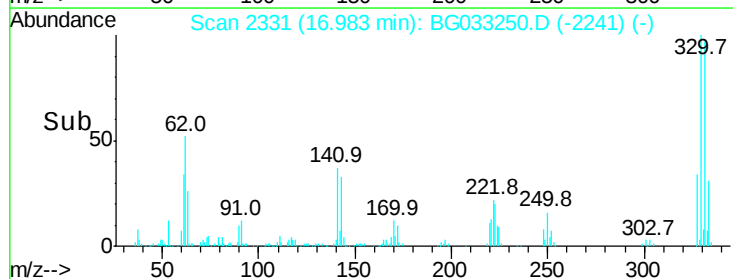
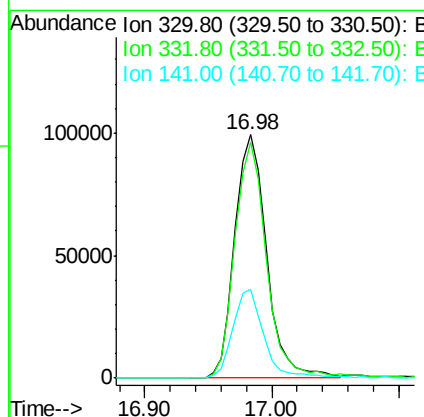
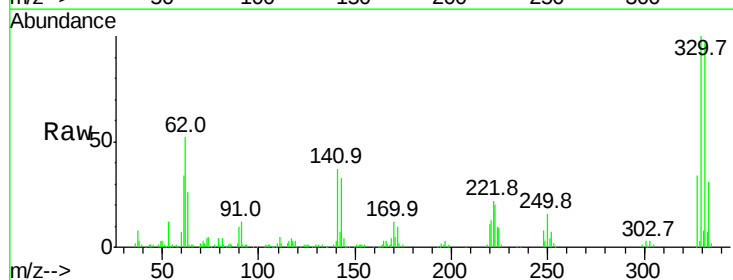
Instrument :  
BNA\_G  
ClientSampleId :

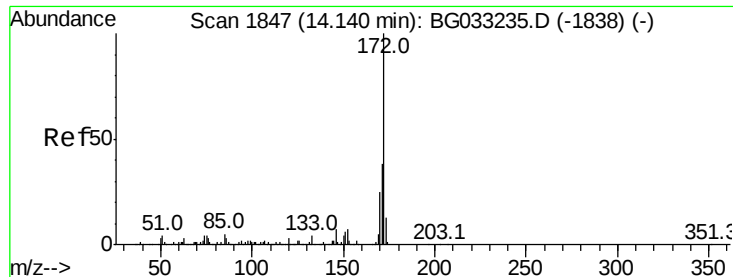
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 91.8  | 78.8  | 118.2 |
| 160     | 43.6  | 35.4  | 53.0  |



#41  
2,4,6-Tribromophenol  
Concen: 103.534 ng  
RT: 16.98 min Scan# 2331  
Delta R.T. -0.00 min  
Lab File: BG033250.D  
Acq: 19 Mar 2018 21:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.3  | 77.0  | 115.6 |
| 141     | 35.0  | 25.2  | 37.8  |

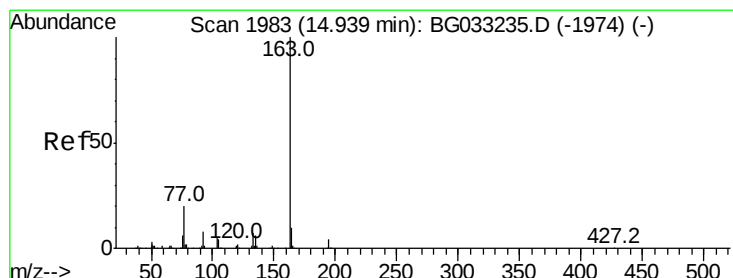
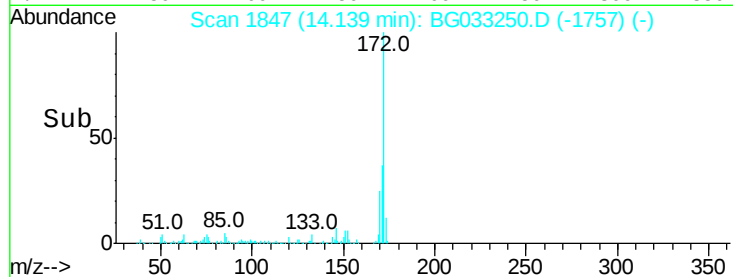
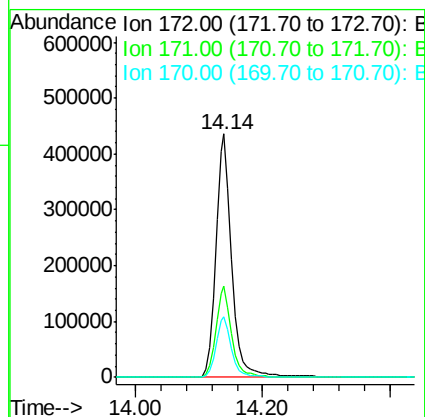
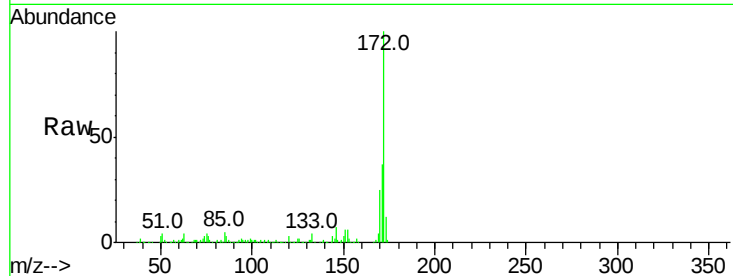




#44  
2-Fluorobiphenyl  
Concen: 99.972 ng  
RT: 14.14 min Scan# 1847  
Delta R.T. -0.00 min  
Lab File: BG033250.D  
Acq: 19 Mar 2018 21:36

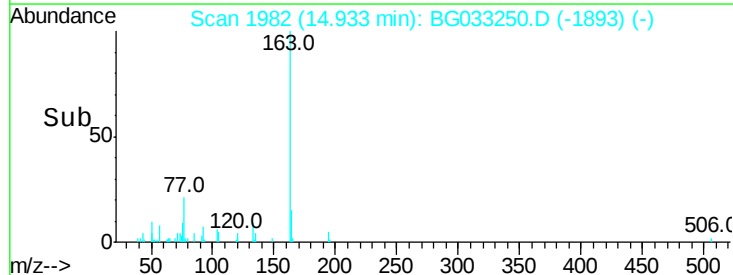
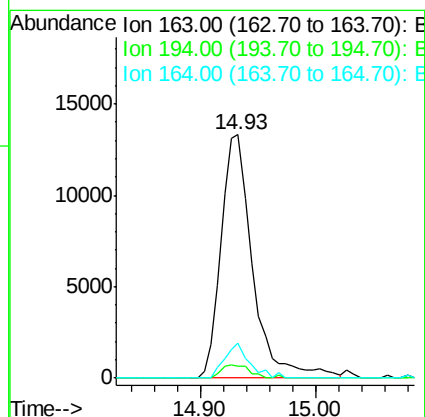
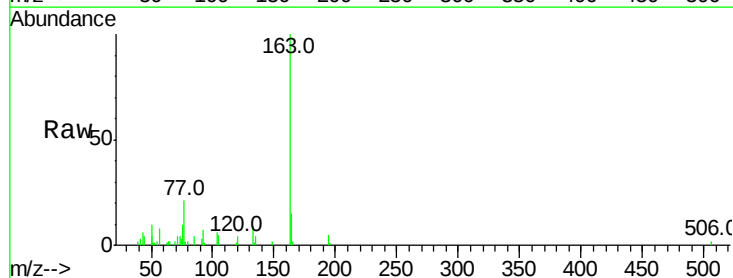
Instrument :  
BNA\_G  
ClientSampled :

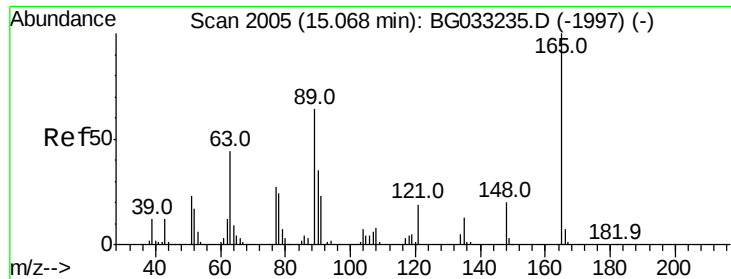
Tot Ion:172 Resp: 774823  
Ion Ratio Lower Upper  
172 100  
171 37.4 30.0 45.0  
170 24.9 19.5 29.3



#49  
Dimethylphthalate  
Concen: 2.594 ng  
RT: 14.93 min Scan# 1982  
Delta R.T. -0.01 min  
Lab File: BG033250.D  
Acq: 19 Mar 2018 21:36

Tgt Ion:163 Resp: 25259  
Ion Ratio Lower Upper  
163 100  
194 4.7 3.4 5.2  
164 14.5 8.2 12.4#





#50

2,6-Dinitrotoluene

Concen: 7.057 ng

RT: 15.51 min Scan# 2080

Delta R.T. 0.44 min

Lab File: BG033250.D

Acq: 19 Mar 2018 21:36

Instrument :

BNA\_G

ClientSampleId :

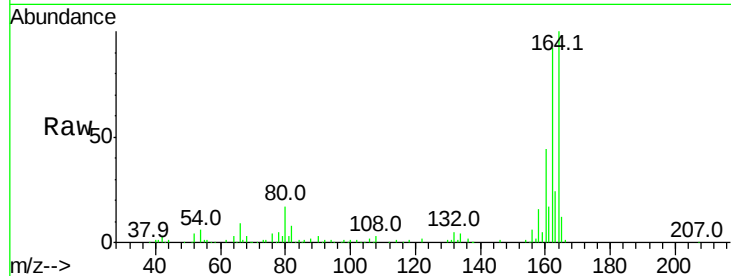
Tot Ion:165 Resp: 14051

Ion Ratio Lower Upper

165 100

63 0.0 52.7 79.1#

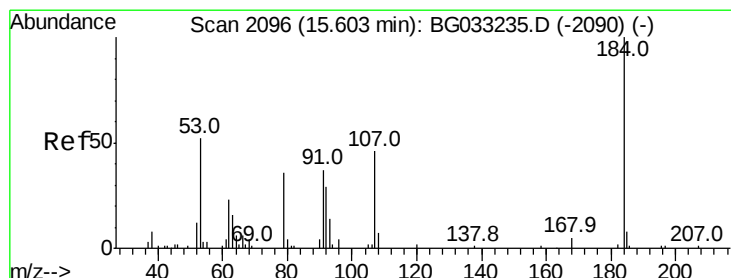
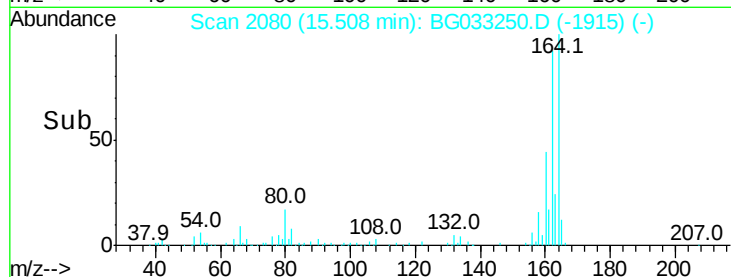
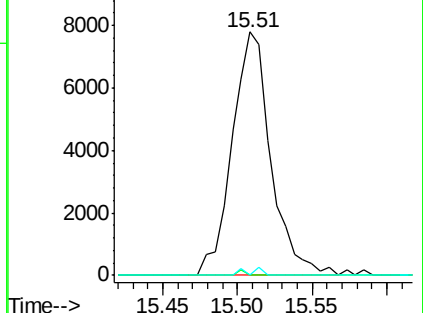
89 0.0 49.2 73.8#



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



#53

2,4-Dinitrophenol

Concen: 7.690 ng

RT: 15.61 min Scan# 2097

Delta R.T. 0.01 min

Lab File: BG033250.D

Acq: 19 Mar 2018 21:36

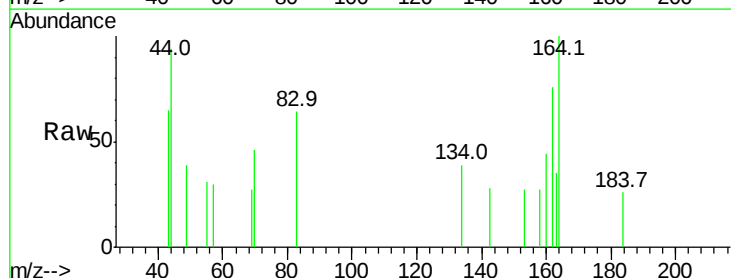
Tgt Ion:184 Resp: 54

Ion Ratio Lower Upper

184 100

63 0.0 59.8 89.8#

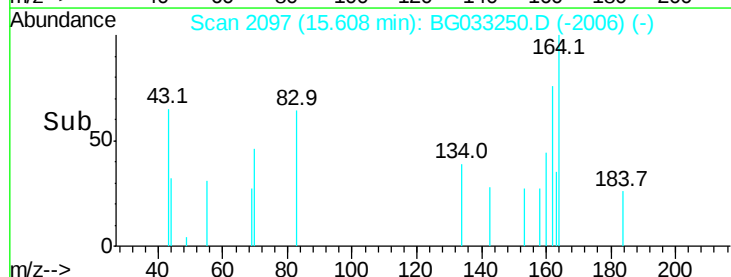
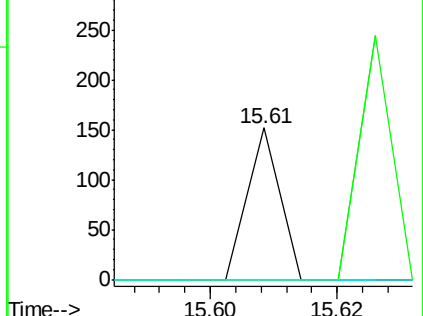
154 0.0 101.8 152.8#

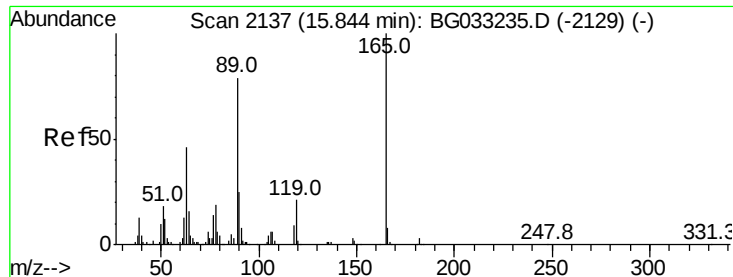


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BGC

Ion 154.00 (153.70 to 154.70): E

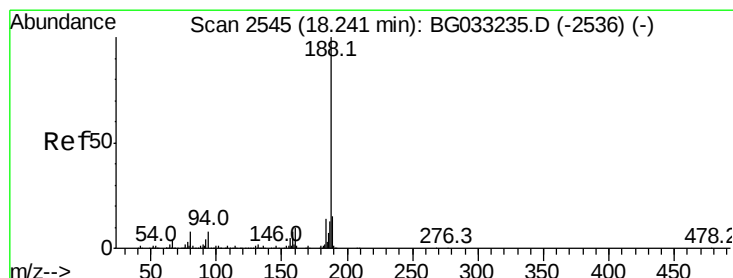
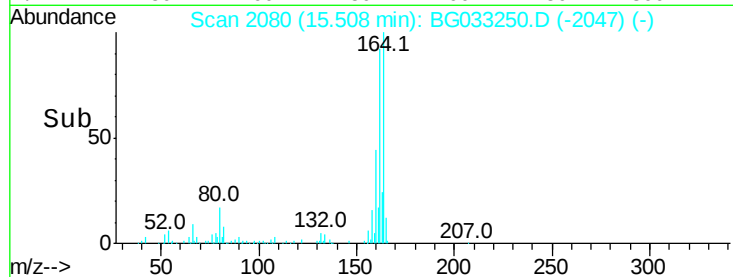
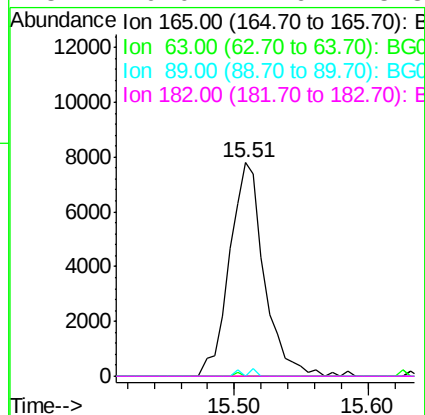
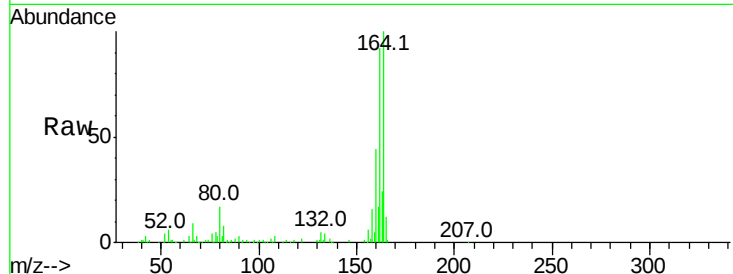




#56  
 2,4-Dinitrotoluene  
 Concen: 4.812 ng  
 RT: 15.51 min Scan# 2080  
 Delta R.T. -0.33 min  
 Lab File: BG033250.D  
 Acq: 19 Mar 2018 21:36

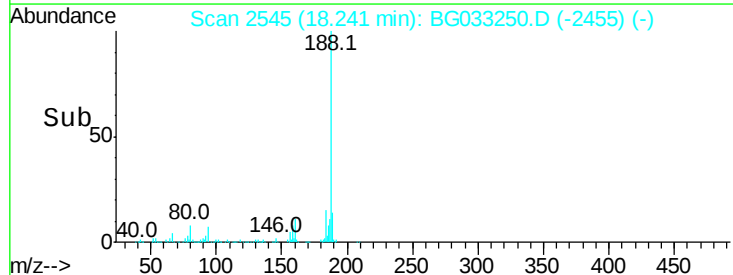
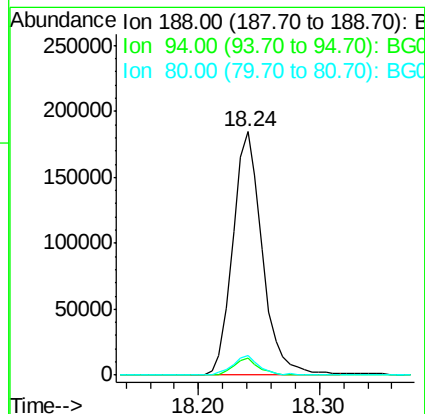
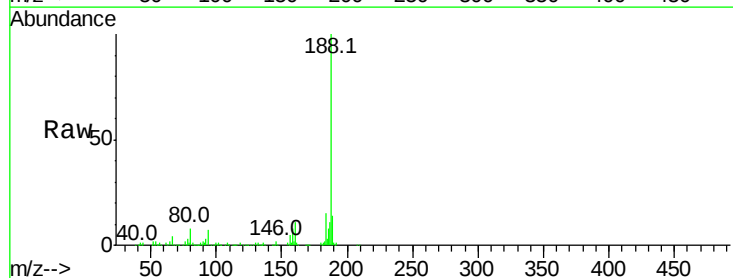
Instrument :  
 BNA\_G  
 ClientSampleId :

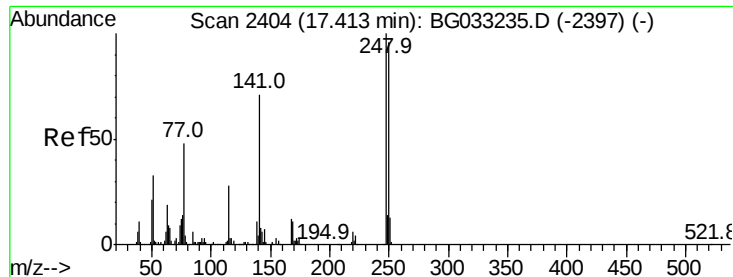
Tot Ion:165 Resp: 14107  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 42.0 63.0#  
 89 0.0 66.9 100.3#  
 182 0.0 2.6 3.8#



#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 18.24 min Scan# 2545  
 Delta R.T. -0.00 min  
 Lab File: BG033250.D  
 Acq: 19 Mar 2018 21:36

Tgt Ion:188 Resp: 313870  
 Ion Ratio Lower Upper  
 188 100  
 94 7.1 6.9 10.3  
 80 8.1 7.7 11.5

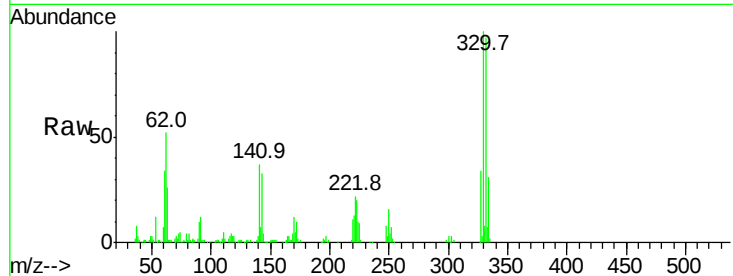




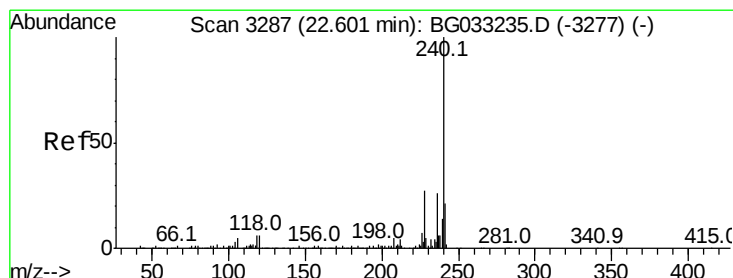
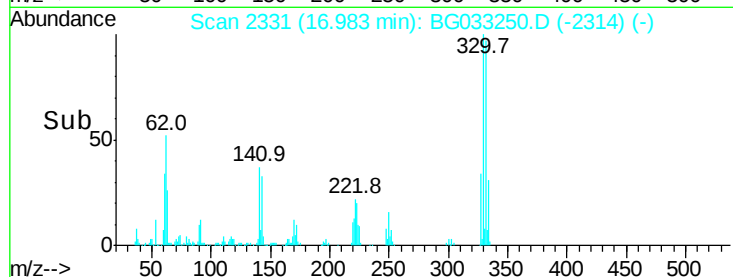
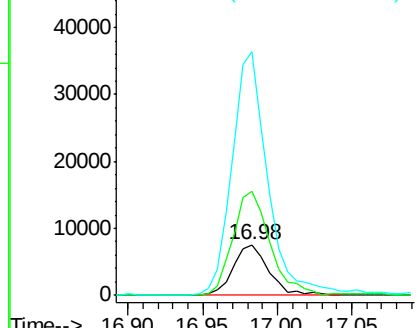
#66  
4-Bromophenyl-phenylether  
Concen: 3.417 ng  
RT: 16.98 min Scan# 2331  
Delta R.T. -0.43 min  
Lab File: BG033250.D  
Acq: 19 Mar 2018 21:36

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:248 Resp: 12594  
Ion Ratio Lower Upper  
248 100  
250 205.3 77.1 115.7#  
141 478.8 50.8 76.2#

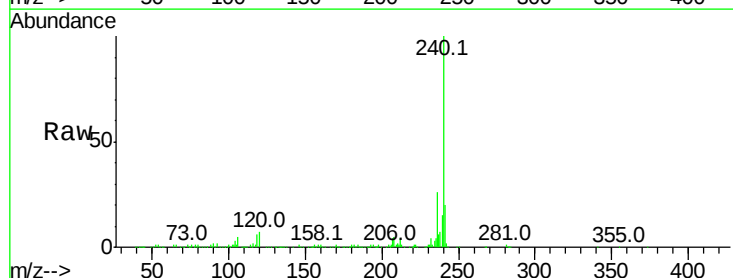


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

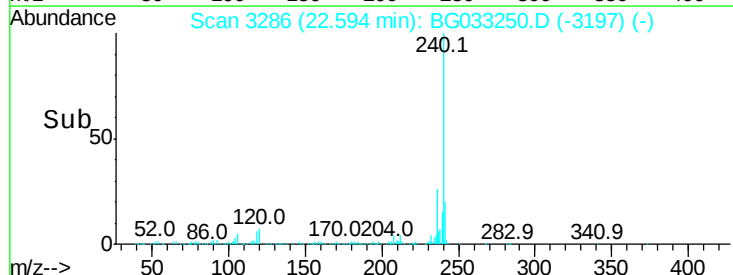
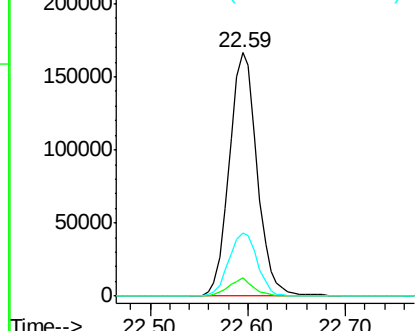


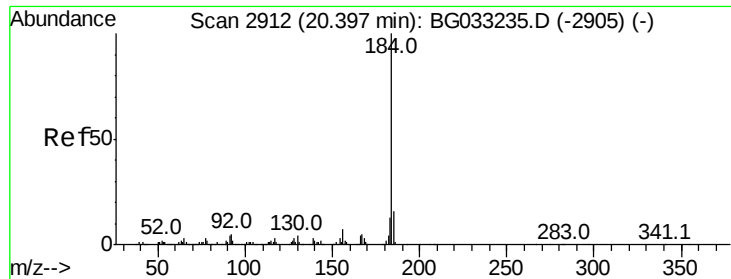
#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 22.59 min Scan# 3286  
Delta R.T. -0.01 min  
Lab File: BG033250.D  
Acq: 19 Mar 2018 21:36

Tgt Ion:240 Resp: 328752  
Ion Ratio Lower Upper  
240 100  
120 7.4 6.8 10.2  
236 26.0 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: 2.657 ng

RT: 20.76 min Scan# 2973

Delta R.T. 0.36 min

Lab File: BG033250.D

Acq: 19 Mar 2018 21:36

Instrument :

BNA\_G

ClientSampleId :

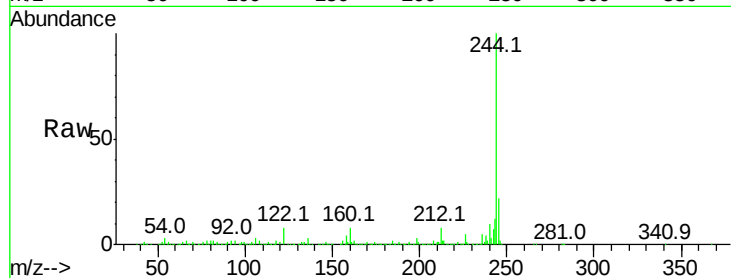
Tot Ion:184 Resp: 23690

Ion Ratio Lower Upper

184 100

185 15.2 11.1 16.7

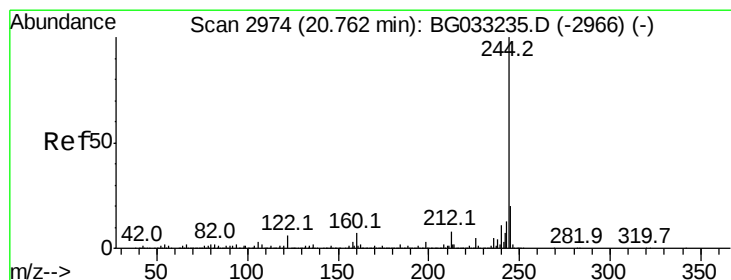
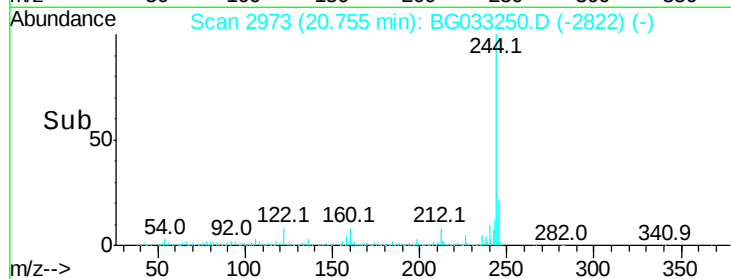
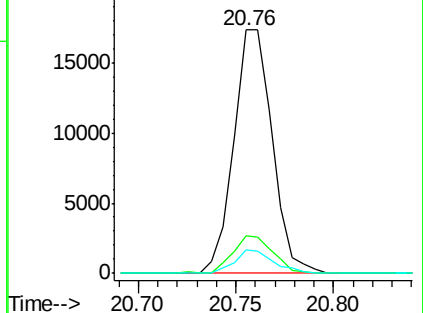
183 9.5 10.6 16.0#



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: 91.011 ng

RT: 20.76 min Scan# 2974

Delta R.T. -0.00 min

Lab File: BG033250.D

Acq: 19 Mar 2018 21:36

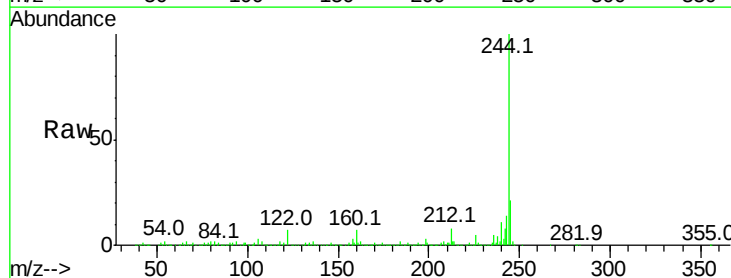
Tgt Ion:244 Resp: 1399050

Ion Ratio Lower Upper

244 100

212 8.2 5.8 8.8

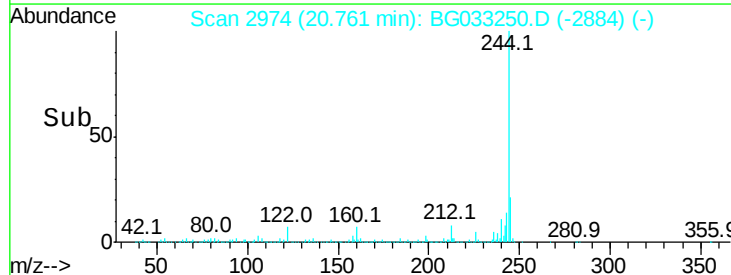
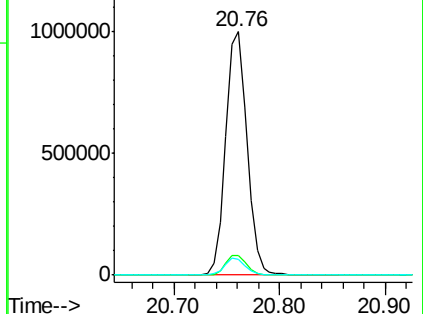
122 6.7 7.0 10.4#

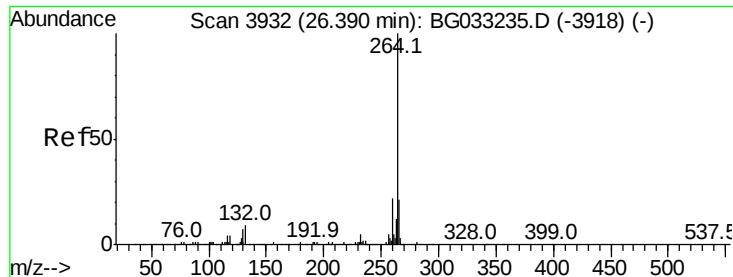


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 26.39 min Scan# 3932  
 Delta R.T. -0.01 min  
 Lab File: BG033250.D  
 Acq: 19 Mar 2018 21:36

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.7  | 17.4  | 26.0  |
| 265     | 22.2  | 17.7  | 26.5  |

