

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG061919\  
 Data File : BG041341.D  
 Acq On : 20 Jun 2019 1:11  
 Operator : HP/JU  
 Sample : K3163-10  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Jun 20 02:26:56 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG061719.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jun 17 14:58:02 2019  
 Response via : Initial Calibration

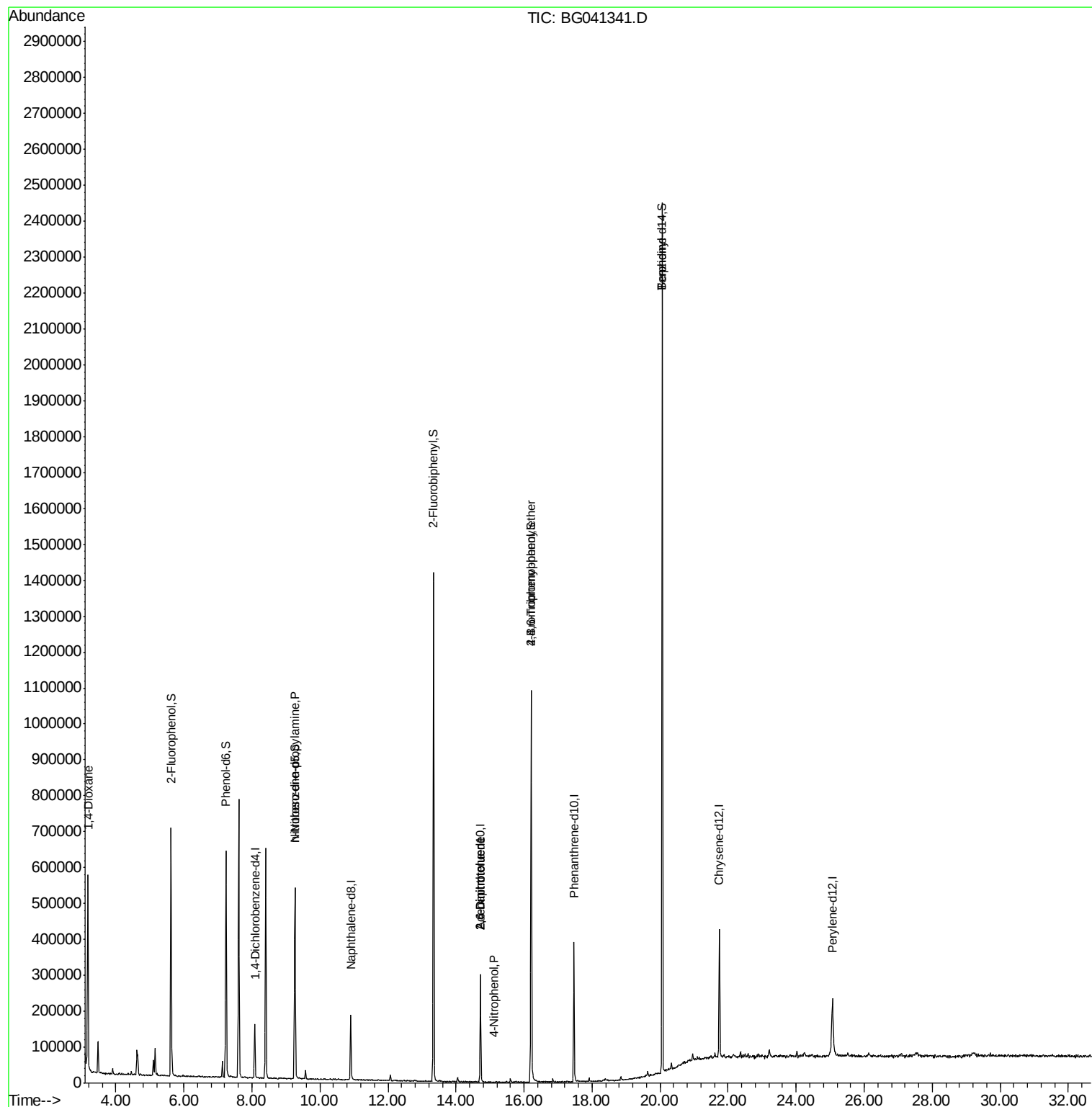
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.08  | 152  | 40786    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.90 | 136  | 151742   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.72 | 164  | 102917   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.47 | 188  | 248113   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.74 | 240  | 228459   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 25.06 | 264  | 221584   | 20.00  | ng    | 0.01     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.62  | 112  | 267648   | 120.58 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.24  | 99   | 331477   | 103.02 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.27  | 82   | 322713   | 89.44  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.21 | 330  | 218832   | 138.50 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.34 | 172  | 732526   | 96.74  | ng    | 0.00     |
| 79) Terphenyl-d14              | 20.06 | 244  | 1141438  | 99.02  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 2) 1,4-Dioxane                 | 3.18  | 88   | 5622     | 5.051  | ng    | # 1      |
| 19) n-Nitroso-di-n-propylamine | 9.27  | 70   | 46991    | 18.057 | ng    | # 80     |
| 51) 2,6-Dinitrotoluene         | 14.72 | 165  | 13726    | 7.109  | ng    | # 19     |
| 56) 4-Nitrophenol              | 15.12 | 139  | 77       | 3.267  | ng    | # 1      |
| 57) 2,4-Dinitrotoluene         | 14.72 | 165  | 13726    | 4.863  | ng    | # 22     |
| 67) 4-Bromophenyl-phenylether  | 16.21 | 248  | 15657    | 4.880  | ng    | # 1      |
| 77) Benzidine                  | 20.06 | 184  | 19197    | 3.474  | ng    | # 93     |

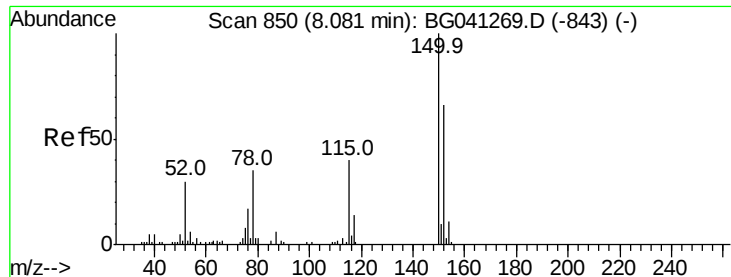
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG061919\  
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BNA\_G  
ClientSampleId :

Quant Time: Jun 20 02:26:56 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG061719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jun 17 14:58:02 2019  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 8.08 min Scan# 849

Delta R.T. -0.00 min

Lab File: BG041341.D

Acq: 20 Jun 2019 1:11

Instrument :

BNA\_G

ClientSampleId :

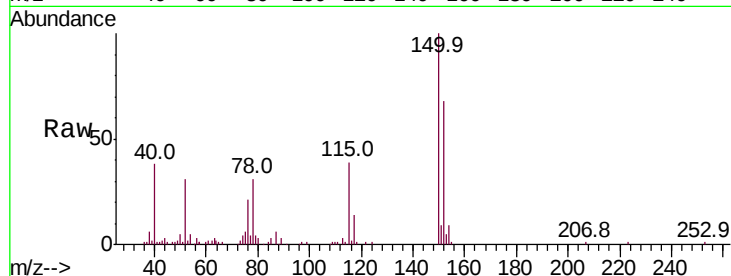
Tot Ion:152 Resp: 40786

Ion Ratio Lower Upper

152 100

150 147.5 120.6 181.0

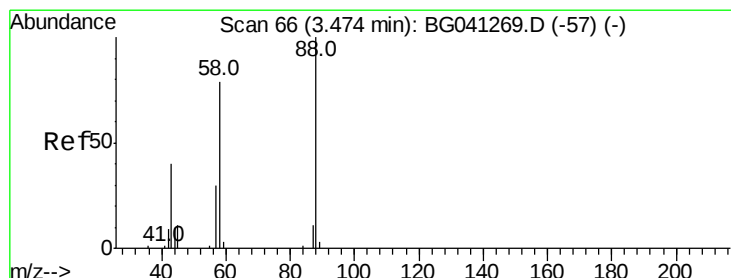
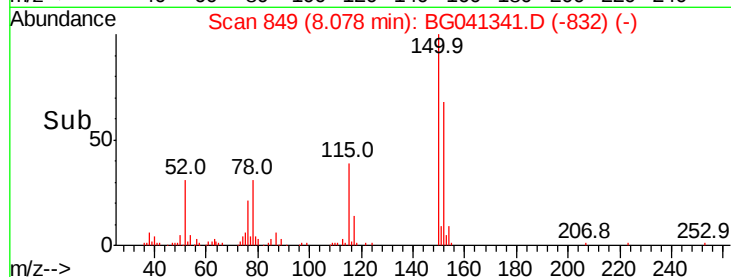
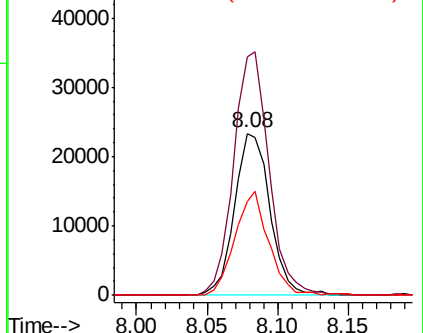
115 58.1 47.9 71.9



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



#2

1,4-Dioxane

Concen: 5.051 ng

RT: 3.18 min Scan# 16

Delta R.T. -0.29 min

Lab File: BG041341.D

Acq: 20 Jun 2019 1:11

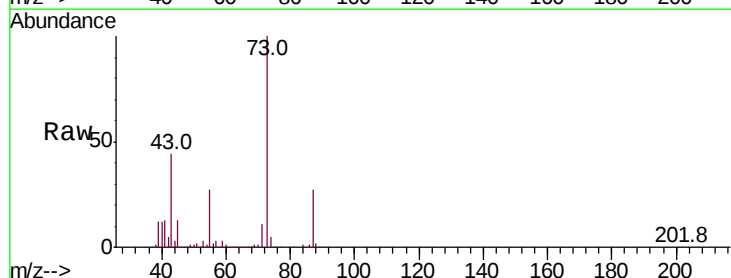
Tgt Ion: 88 Resp: 5622

Ion Ratio Lower Upper

88 100

58 47.5 59.7 89.5#

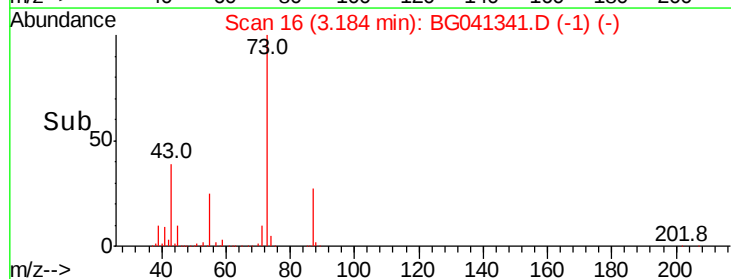
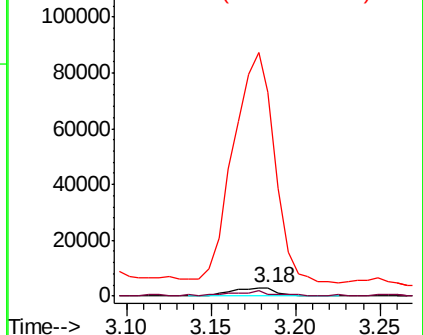
43 2475.9 31.9 47.9#

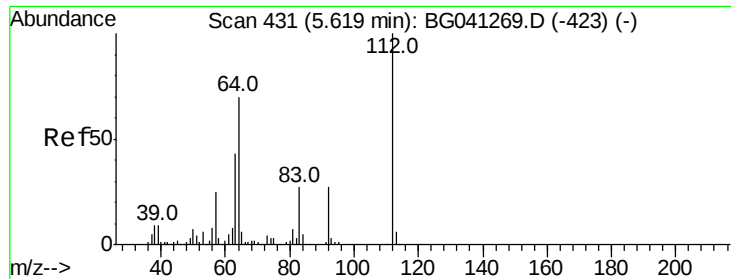


Abundance Ion 88.00 (87.70 to 88.70): BGC

Ion 58.00 (57.70 to 58.70): BGC

Ion 43.00 (42.70 to 43.70): BGC





#5

2-Fluorophenol

Concen: 120.576 ng

RT: 5.62 min Scan# 431

Delta R.T. 0.00 min

Lab File: BG041341.D

Acq: 20 Jun 2019 1:11

Instrument :

BNA\_G

ClientSampleId :

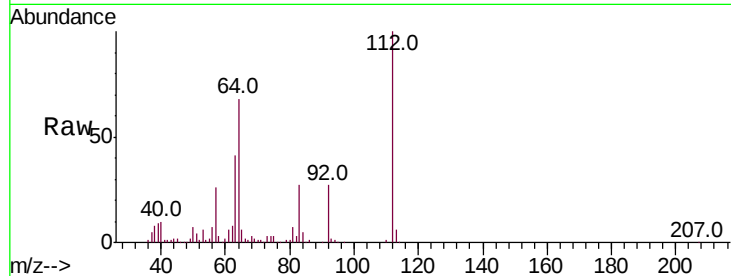
Tot Ion:112 Resp: 267648

Ion Ratio Lower Upper

112 100

64 68.3 55.9 83.9

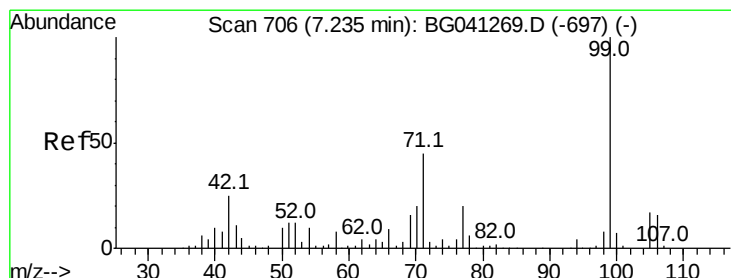
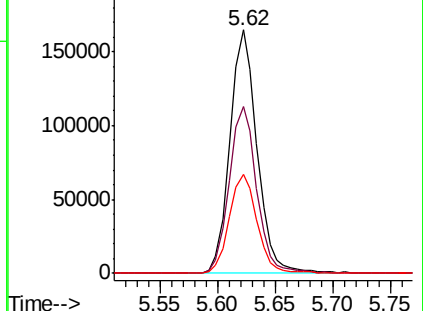
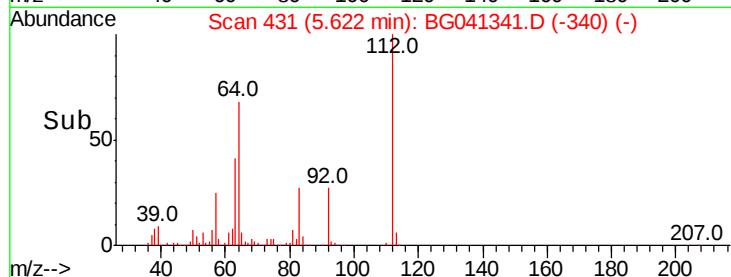
63 40.9 34.6 51.8



Abundance Ion 112.00 (111.70 to 112.70): BGC

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC



#7

Phenol-d6

Concen: 103.022 ng

RT: 7.24 min Scan# 706

Delta R.T. 0.00 min

Lab File: BG041341.D

Acq: 20 Jun 2019 1:11

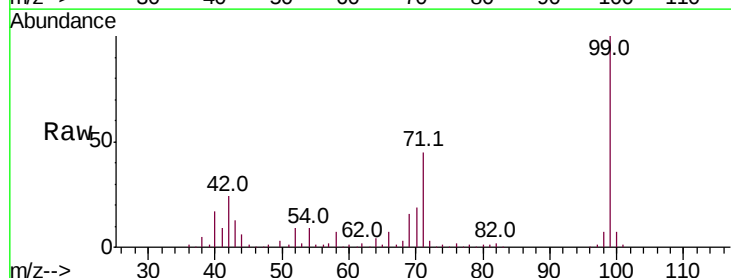
Tgt Ion: 99 Resp: 331477

Ion Ratio Lower Upper

99 100

42 24.4 19.9 29.9

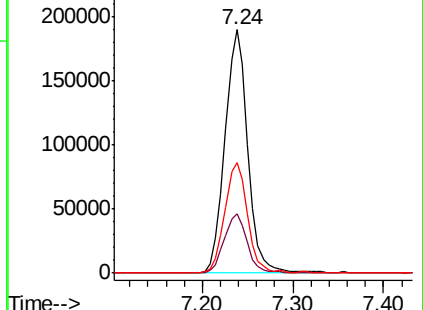
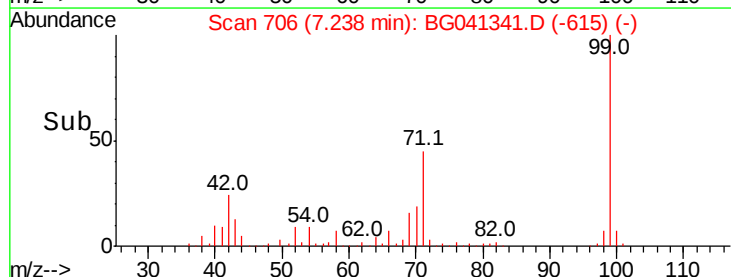
71 45.3 36.4 54.6

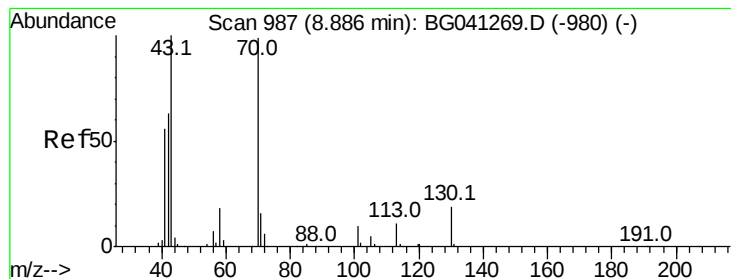


Abundance Ion 99.00 (98.70 to 99.70): BGC

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: 18.057 ng

RT: 9.27 min Scan# 1051

Delta R.T. 0.38 min

Lab File: BG041341.D

Acq: 20 Jun 2019 1:11

Instrument :

BNA\_G

ClientSampleId :

Tot Ion: 70 Resp: 46991

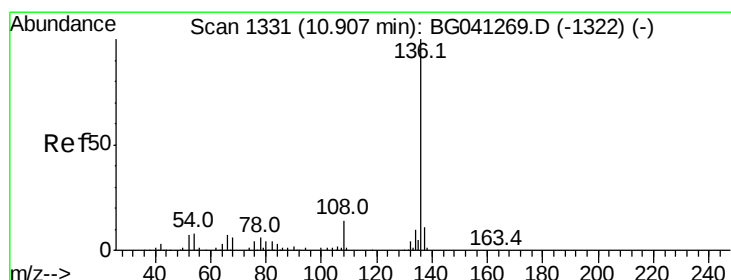
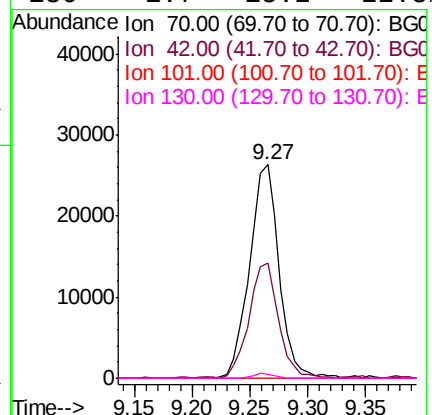
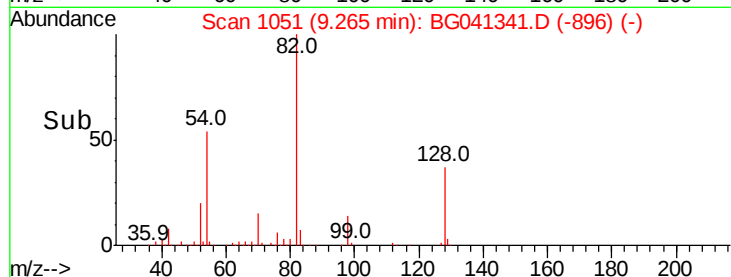
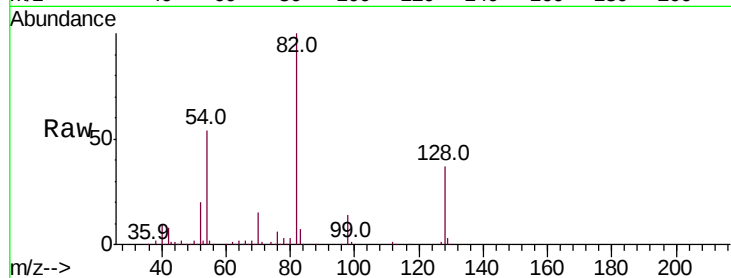
Ion Ratio Lower Upper

70 100

42 53.7 51.4 77.2

101 0.0 8.2 12.2#

130 1.7 15.2 22.8#



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.90 min Scan# 1330

Delta R.T. -0.00 min

Lab File: BG041341.D

Acq: 20 Jun 2019 1:11

Tgt Ion: 136 Resp: 151742

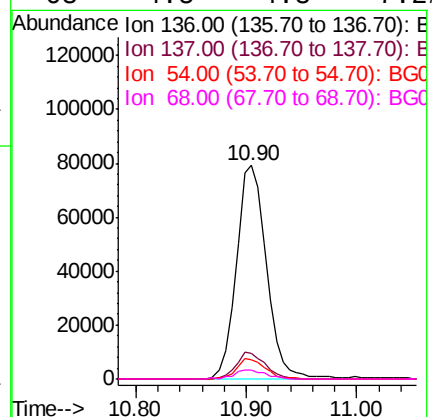
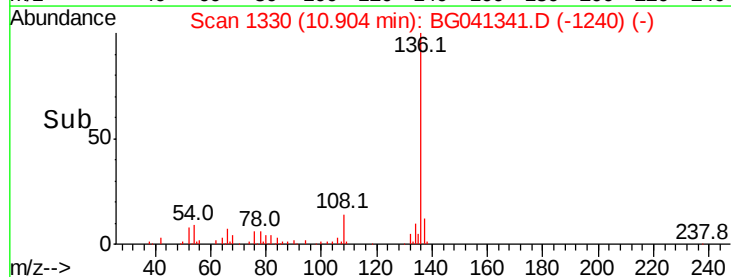
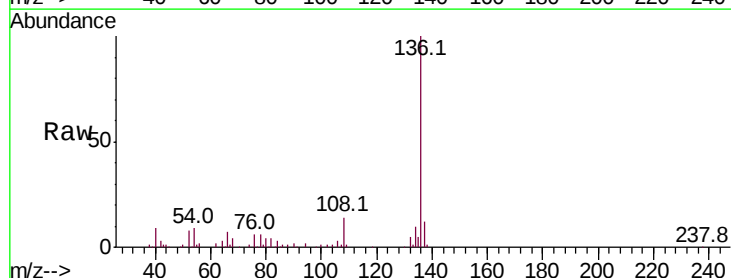
Ion Ratio Lower Upper

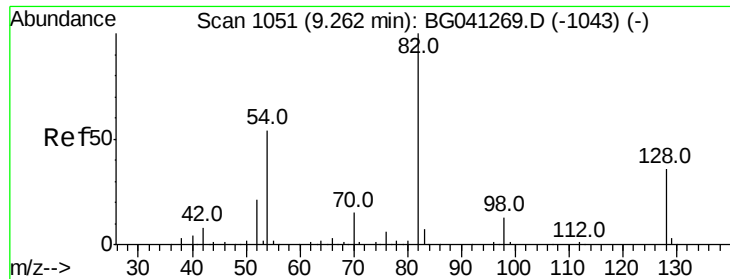
136 100

137 11.8 8.8 13.2

54 8.8 6.4 9.6

68 4.5 4.8 7.2#

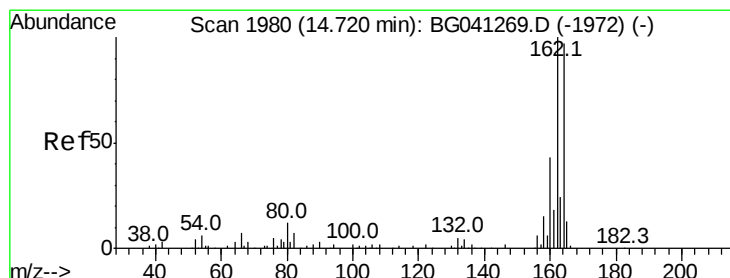
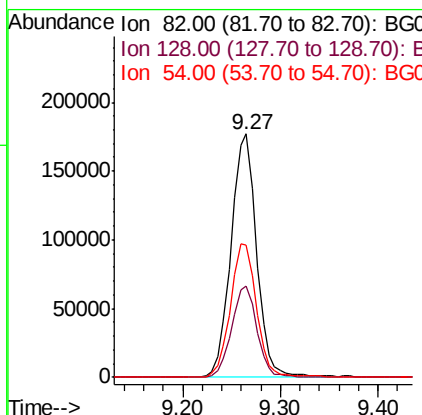
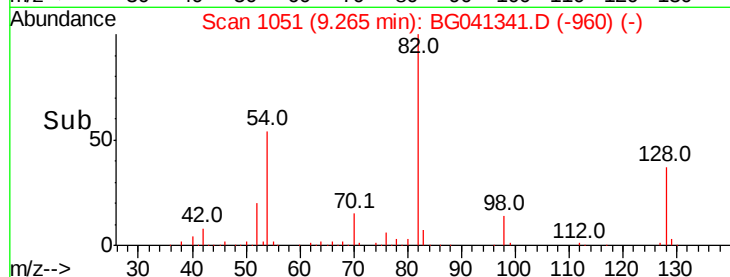
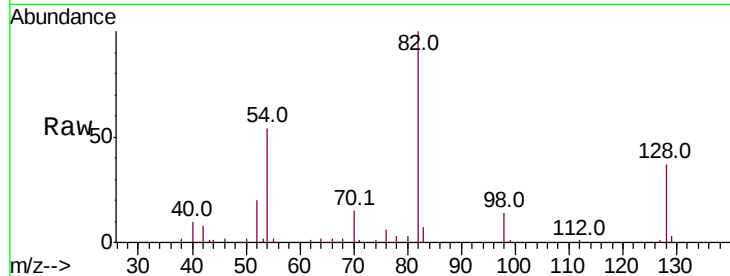




#23  
Nitrobenzene-d5  
Concen: 89.442 ng  
RT: 9.27 min Scan# 1051  
Delta R.T. 0.00 min  
Lab File: BG041341.D  
Acq: 20 Jun 2019 1:11

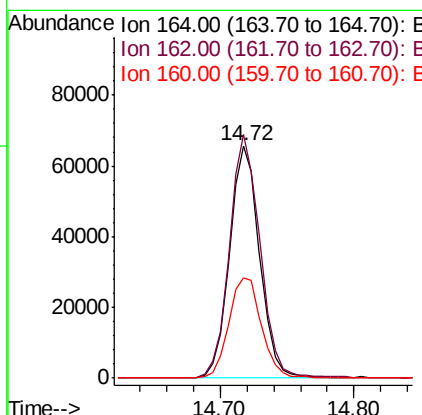
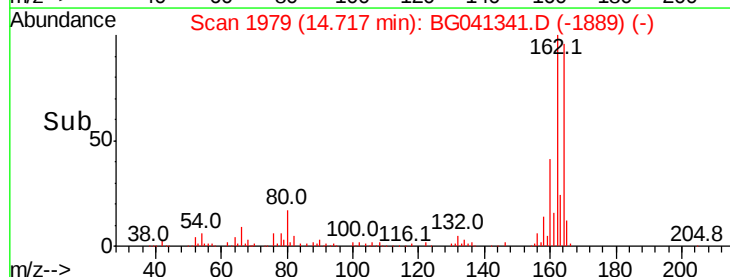
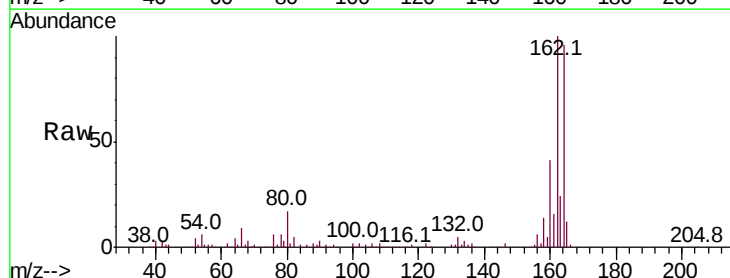
Instrument :  
BNA\_G  
ClientSampled :

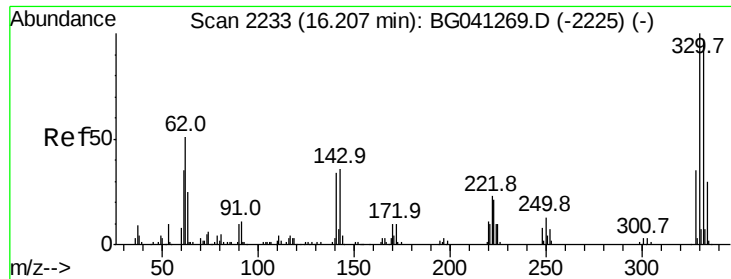
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 37.4  | 29.2  | 43.8  |
| 54      | 54.5  | 43.4  | 65.0  |



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.72 min Scan# 1979  
Delta R.T. -0.00 min  
Lab File: BG041341.D  
Acq: 20 Jun 2019 1:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 104.6 | 82.8  | 124.2 |
| 160     | 43.0  | 35.8  | 53.8  |

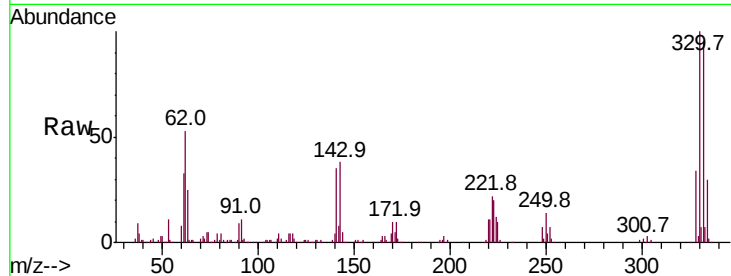




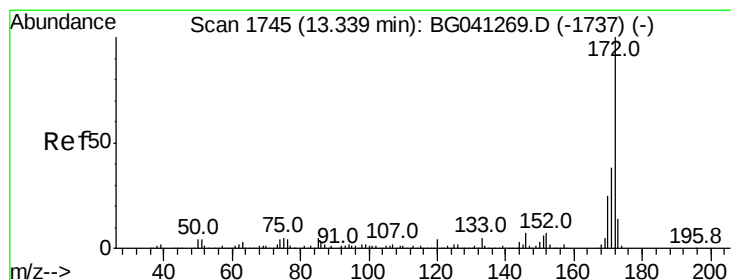
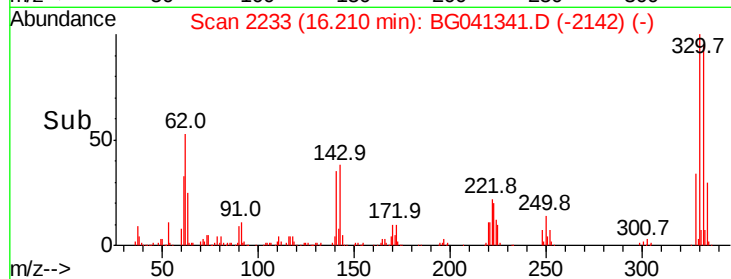
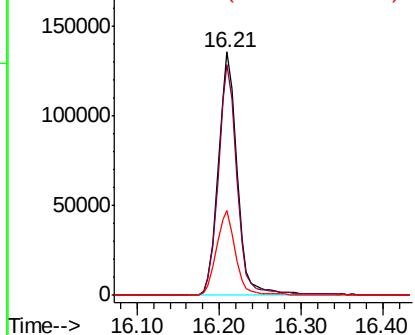
#42  
 2,4,6-Tribromophenol  
 Concen: 138.501 ng  
 RT: 16.21 min Scan# 2233  
 Delta R.T. 0.00 min  
 Lab File: BG041341.D  
 Acq: 20 Jun 2019 1:11

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 94.1  | 75.5  | 113.3 |
| 141     | 35.5  | 29.0  | 43.4  |

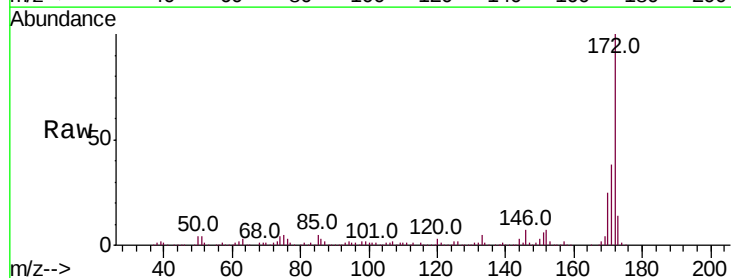


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

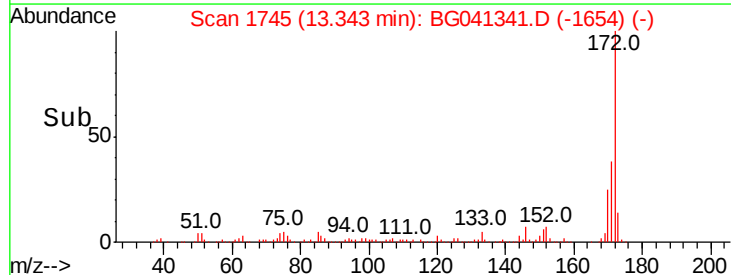
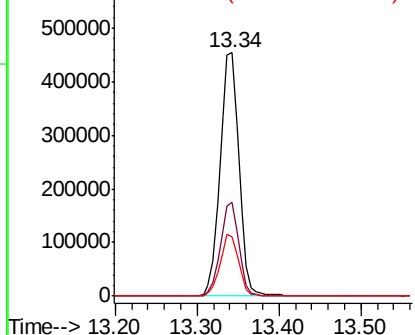


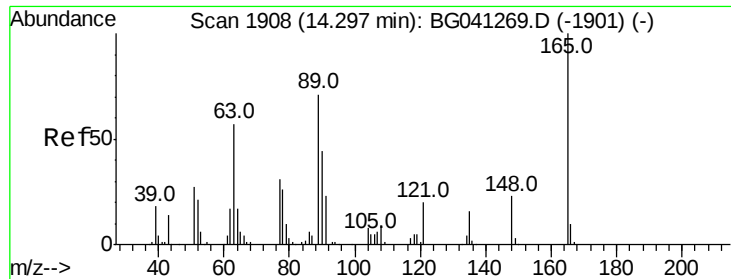
#45  
 2-Fluorobiphenyl  
 Concen: 96.740 ng  
 RT: 13.34 min Scan# 1745  
 Delta R.T. 0.00 min  
 Lab File: BG041341.D  
 Acq: 20 Jun 2019 1:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 38.4  | 30.0  | 45.0  |
| 170     | 24.6  | 19.8  | 29.6  |



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





#51

2,6-Dinitrotoluene

Concen: 7.109 ng

RT: 14.72 min Scan# 1979

Delta R.T. 0.42 min

Lab File: BG041341.D

Acq: 20 Jun 2019 1:11

Instrument :

BNA\_G

ClientSampled :

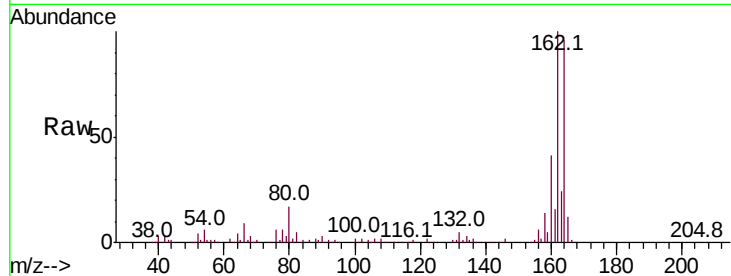
Tot Ion:165 Resp: 13726

Ion Ratio Lower Upper

165 100

63 2.5 55.4 83.0#

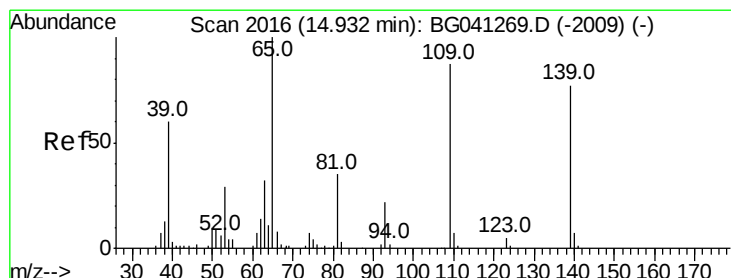
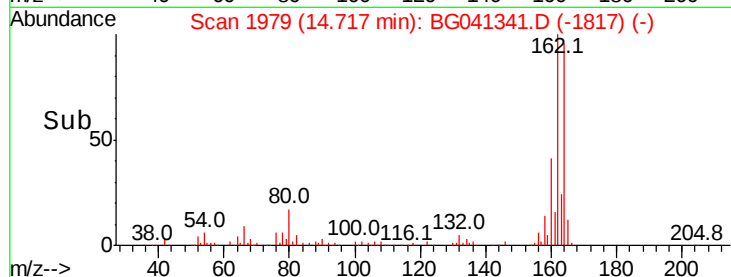
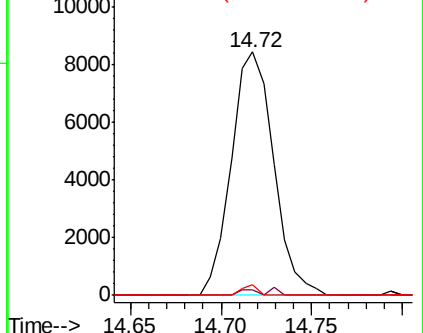
89 4.3 56.5 84.7#



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

4-Nitrophenol

Concen: 3.267 ng

RT: 15.12 min Scan# 2047

Delta R.T. 0.19 min

Lab File: BG041341.D

Acq: 20 Jun 2019 1:11

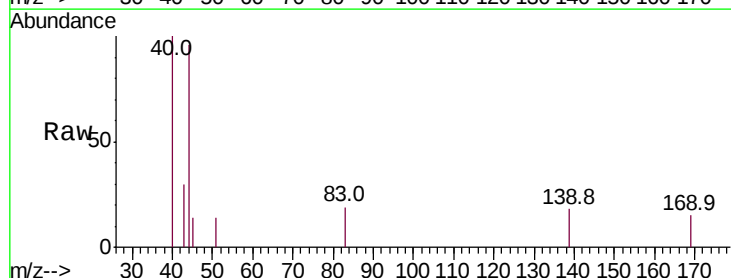
Tgt Ion:139 Resp: 77

Ion Ratio Lower Upper

139 100

109 0.0 93.2 133.2#

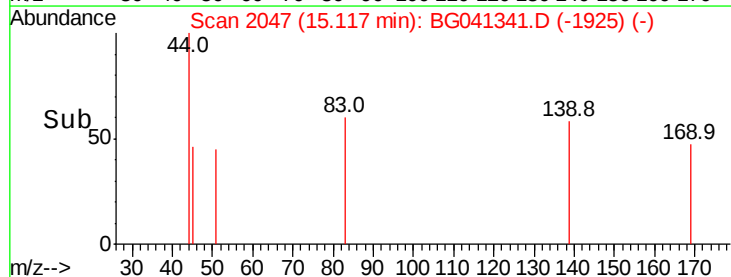
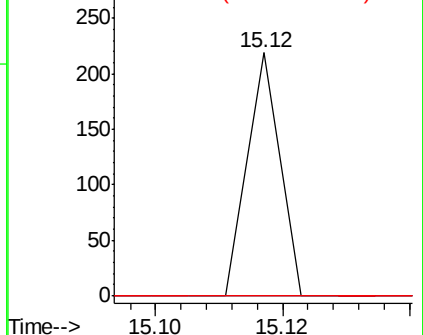
65 0.0 110.2 150.2#

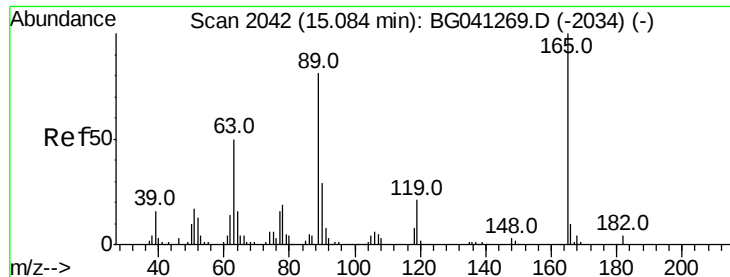


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BGC

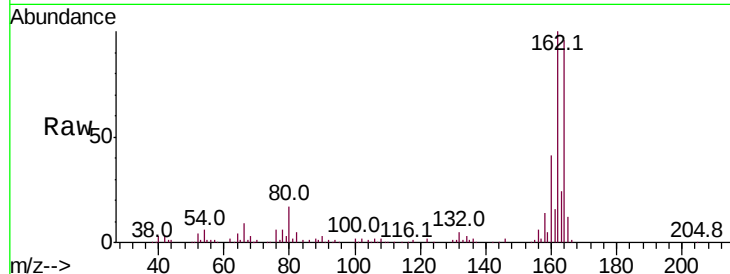




#57  
 2,4-Dinitrotoluene  
 Concen: 4.863 ng  
 RT: 14.72 min Scan# 1979  
 Delta R.T. -0.37 min  
 Lab File: BG041341.D  
 Acq: 20 Jun 2019 1:11

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 2.5   | 40.0  | 60.0# |
| 89      | 4.3   | 64.6  | 96.8# |
| 182     | 0.0   | 2.9   | 4.3#  |



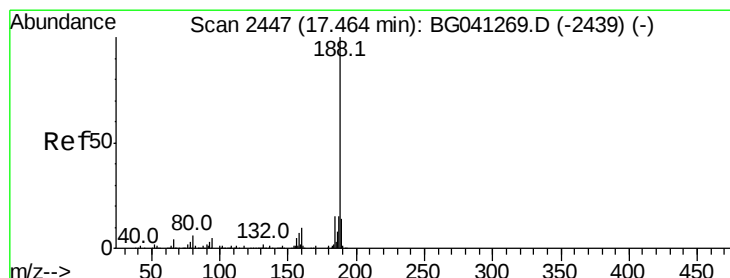
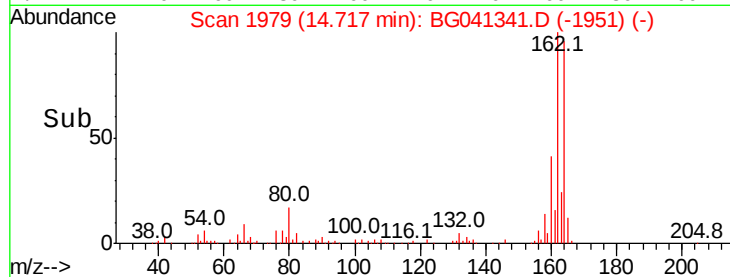
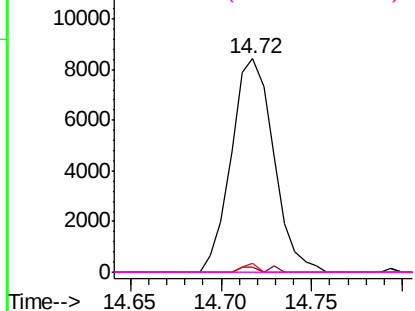
Abundance

Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BG

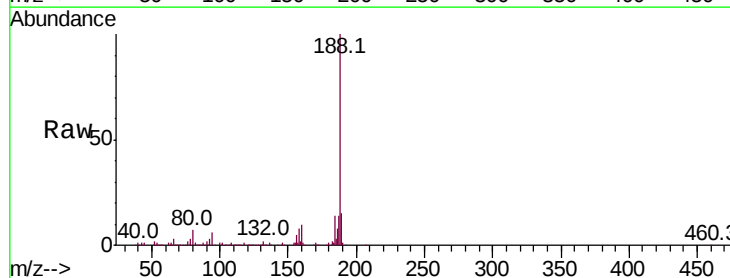
Ion 89.00 (88.70 to 89.70): BG

Ion 182.00 (181.70 to 182.70): E



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.47 min Scan# 2447  
 Delta R.T. 0.00 min  
 Lab File: BG041341.D  
 Acq: 20 Jun 2019 1:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 5.6   | 3.6   | 5.4#  |
| 80      | 7.1   | 4.8   | 7.2   |

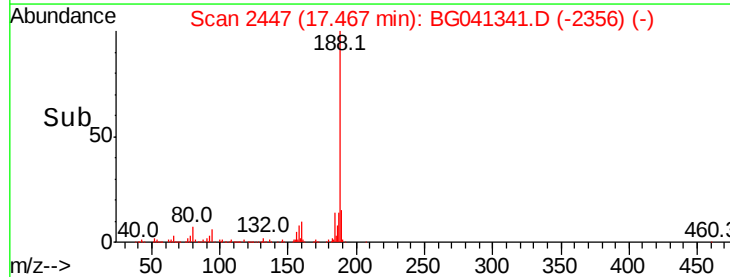
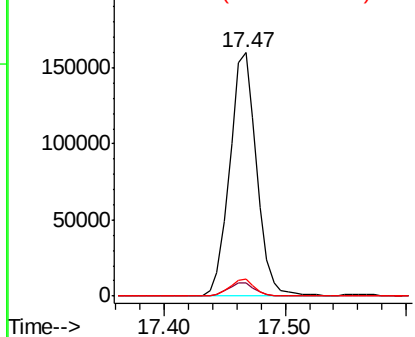


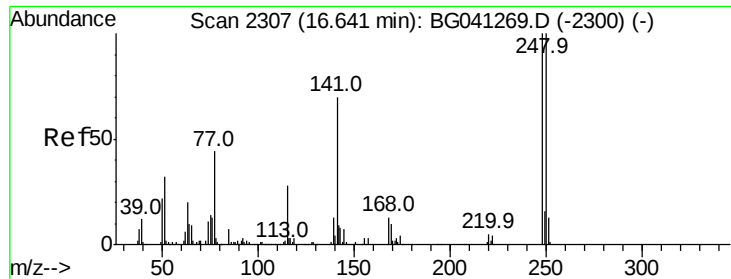
Abundance

Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BG

Ion 80.00 (79.70 to 80.70): BG





#67

4-Bromophenyl-phenylether

Concen: 4.880 ng

RT: 16.21 min Scan# 2233

Delta R.T. -0.43 min

Lab File: BG041341.D

Acq: 20 Jun 2019 1:11

Instrument :

BNA\_G

ClientSampleId :

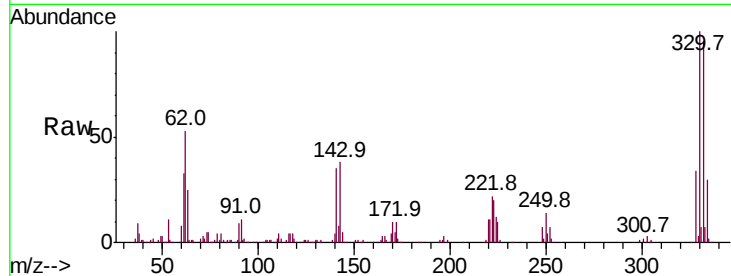
Tot Ion:248 Resp: 15657

Ion Ratio Lower Upper

248 100

250 193.2 79.8 119.8#

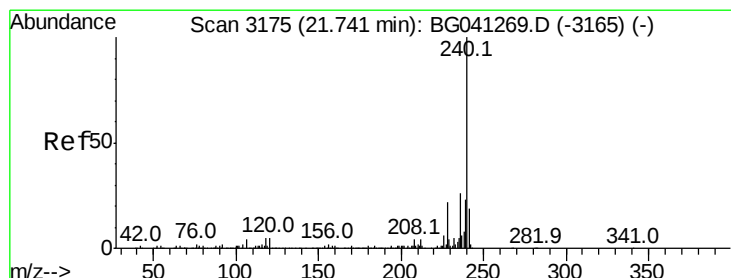
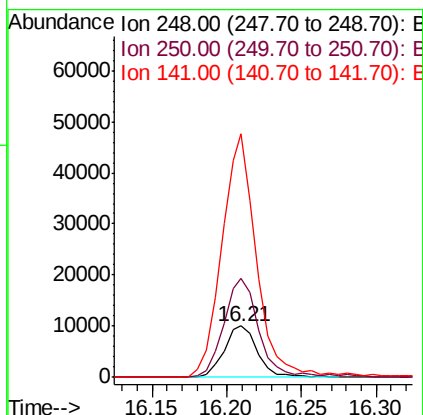
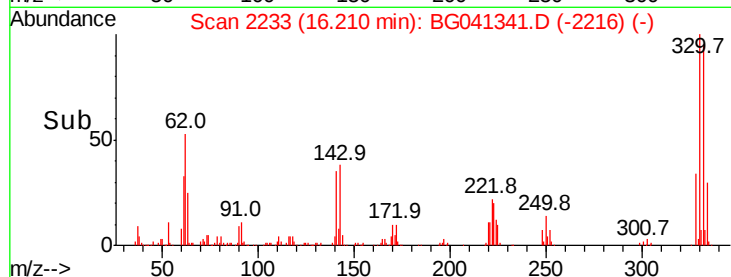
141 474.9 55.8 83.6#



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



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.74 min Scan# 3175

Delta R.T. 0.00 min

Lab File: BG041341.D

Acq: 20 Jun 2019 1:11

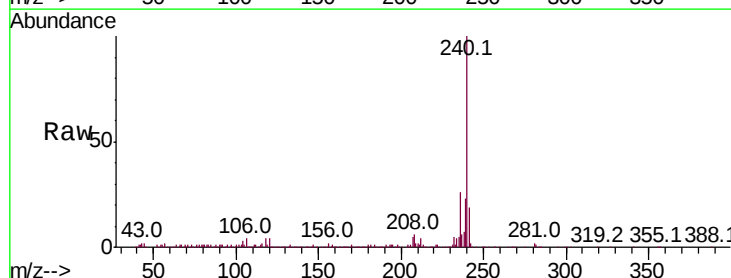
Tgt Ion:240 Resp: 228459

Ion Ratio Lower Upper

240 100

120 4.3 3.7 5.5

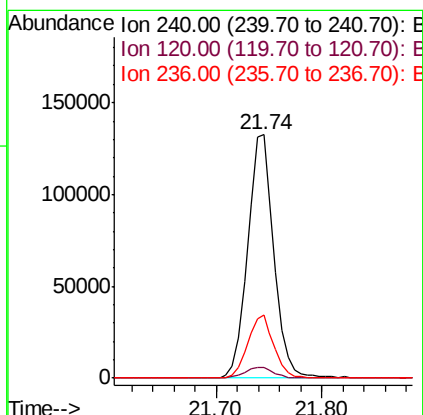
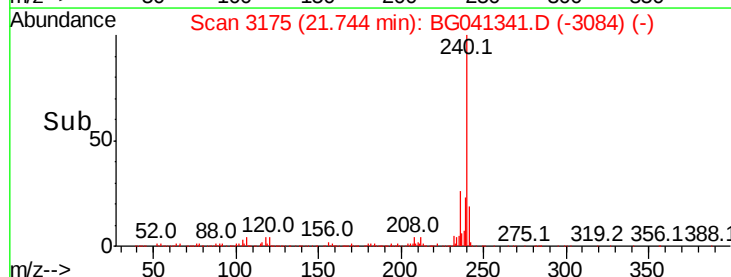
236 26.0 21.1 31.7

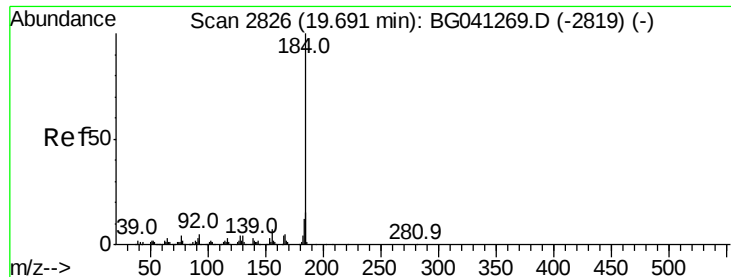


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Benzidine

Concen: 3.474 ng

RT: 20.06 min Scan# 2889

Delta R.T. 0.37 min

Lab File: BG041341.D

Acq: 20 Jun 2019 1:11

Instrument :

BNA\_G

ClientSampleId :

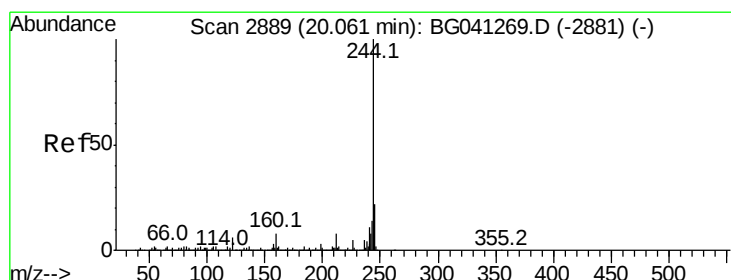
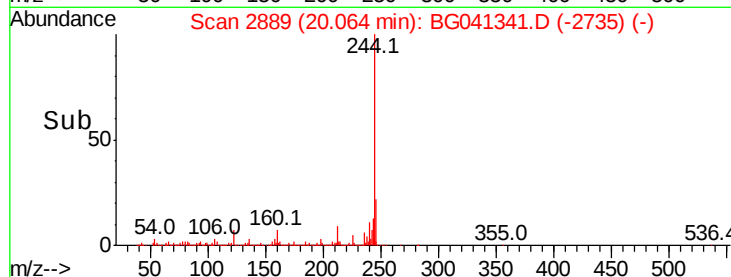
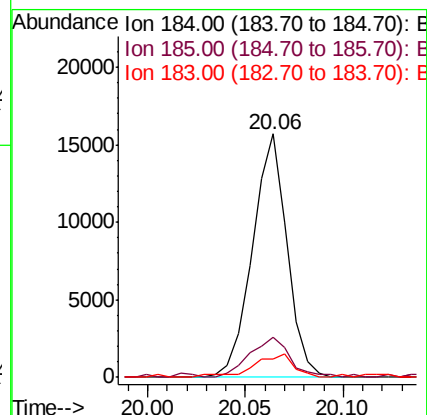
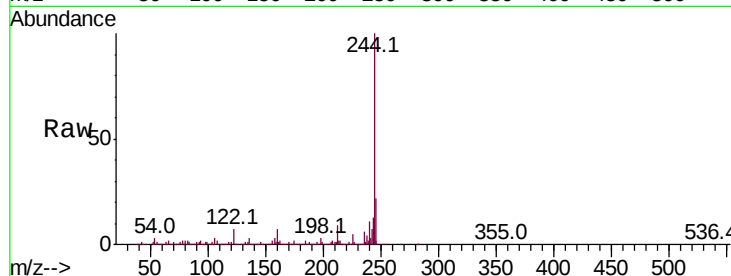
Tot Ion:184 Resp: 19197

Ion Ratio Lower Upper

184 100

185 16.5 12.2 18.2

183 7.6 9.6 14.4#



#79

Terphenyl-d14

Concen: 99.015 ng

RT: 20.06 min Scan# 2889

Delta R.T. 0.00 min

Lab File: BG041341.D

Acq: 20 Jun 2019 1:11

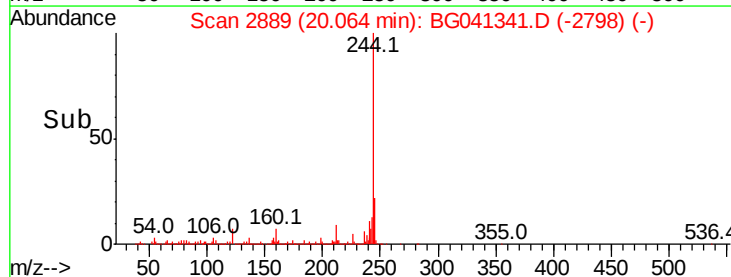
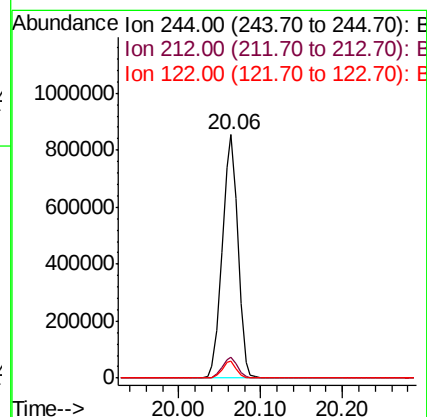
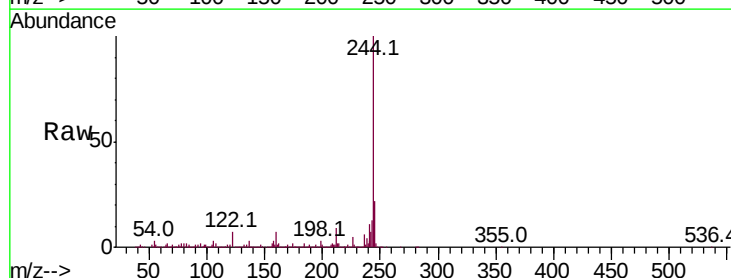
Tgt Ion:244 Resp: 1141438

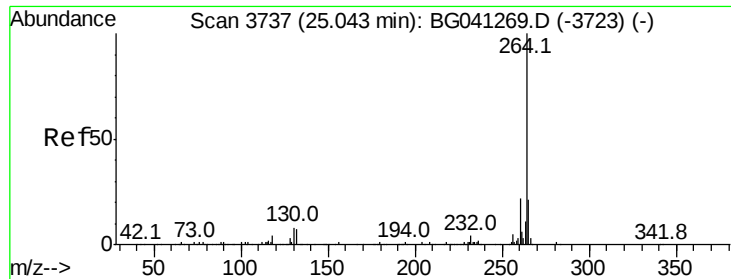
Ion Ratio Lower Upper

244 100

212 8.6 6.6 10.0

122 6.8 5.0 7.4





#87  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 25.06 min Scan# 3739  
 Delta R.T. 0.01 min  
 Lab File: BG041341.D  
 Acq: 20 Jun 2019 1:11

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ion | Ratio | Lower | Upper |
|---------|-----|-------|-------|-------|
| 221584  | 264 | 100   |       |       |
|         | 260 | 23.8  | 17.4  | 26.2  |
|         | 265 | 22.4  | 17.2  | 25.8  |

