

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG061319\  
 Data File : BG041239.D  
 Acq On : 14 Jun 2019 3:08  
 Operator : HP/JU  
 Sample : K3333-04  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 CONCRETE-4

Quant Time: Jun 14 04:56:28 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG052919.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sun Jun 09 23:08:34 2019  
 Response via : Initial Calibration

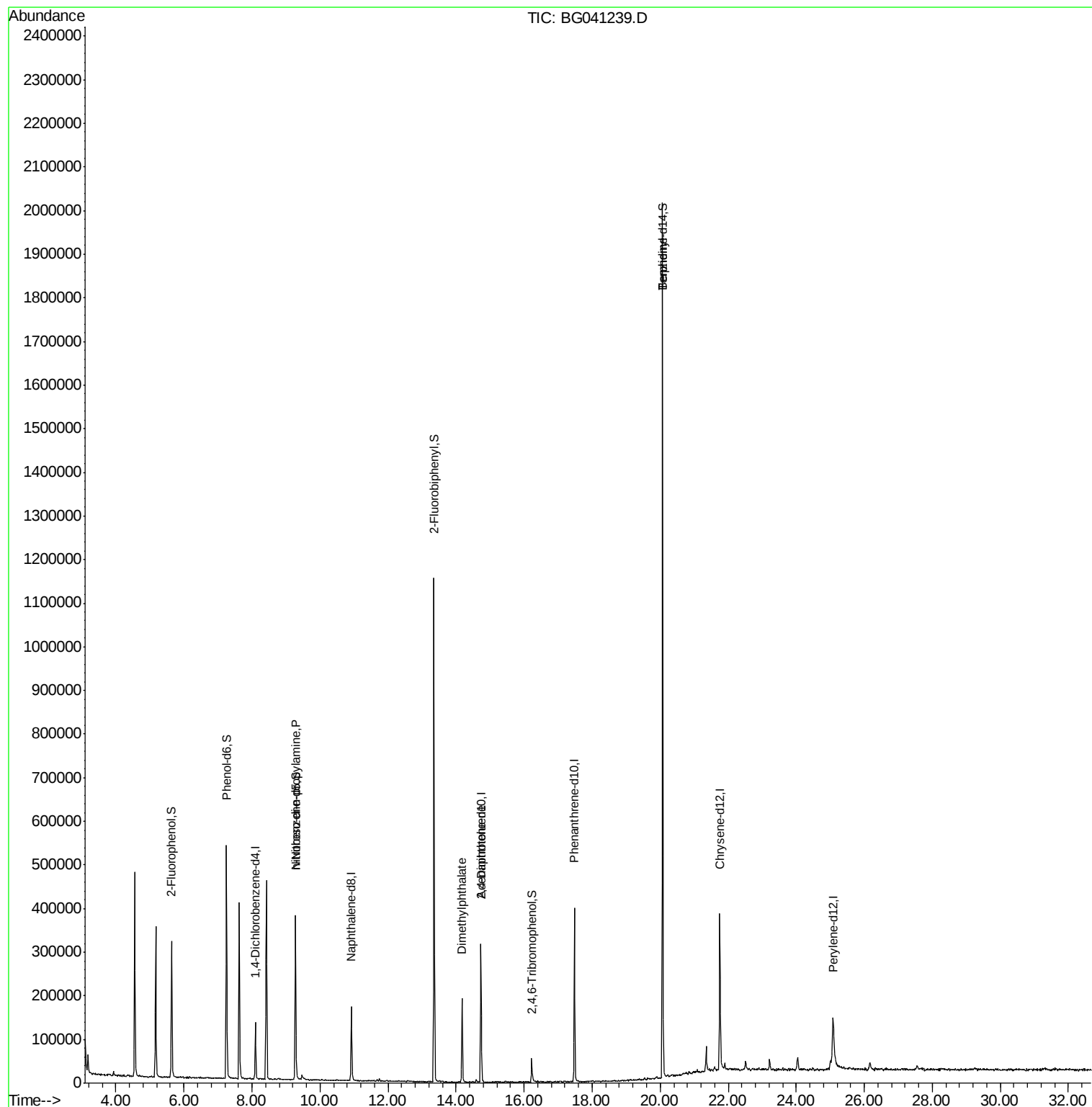
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|--------------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4      | 8.10  | 152  | 35042    | 20.00  | ng    | 0.00        |
| 21) Naphthalene-d8             | 10.92 | 136  | 143349   | 20.00  | ng    | 0.00        |
| 39) Acenaphthene-d10           | 14.73 | 164  | 105819   | 20.00  | ng    | 0.00        |
| 64) Phenanthrene-d10           | 17.48 | 188  | 265269   | 20.00  | ng    | 0.00        |
| 76) Chrysene-d12               | 21.75 | 240  | 251032   | 20.00  | ng    | 0.00        |
| 87) Perylene-d12               | 25.09 | 264  | 216324   | 20.00  | ng    | 0.00        |
| System Monitoring Compounds    |       |      |          |        |       |             |
| 5) 2-Fluorophenol              | 5.64  | 112  | 121555   | 62.55  | ng    | 0.00        |
| 7) Phenol-d6                   | 7.25  | 99   | 292115   | 97.33  | ng    | 0.00        |
| 23) Nitrobenzene-d5            | 9.28  | 82   | 236453   | 73.23  | ng    | 0.00        |
| 42) 2,4,6-Tribromophenol       | 16.23 | 330  | 12873    | 8.19   | ng    | 0.00        |
| 45) 2-Fluorobiphenyl           | 13.35 | 172  | 587850   | 80.00  | ng    | 0.00        |
| 79) Terphenyl-d14              | 20.07 | 244  | 1011790  | 85.54  | ng    | 0.00        |
| Target Compounds               |       |      |          |        |       |             |
| 19) n-Nitroso-di-n-propylamine | 9.27  | 70   | 33939    | 14.695 | ng    | Qvalue # 75 |
| 50) Dimethylphthalate          | 14.17 | 163  | 130179   | 14.533 | ng    | # 99        |
| 57) 2,4-Dinitrotoluene         | 14.73 | 165  | 13447    | 4.929  | ng    | # 24        |
| 77) Benzidine                  | 20.07 | 184  | 16267    | 2.716  | ng    | # 94        |

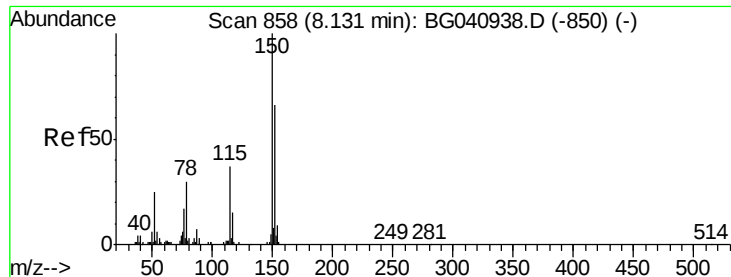
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG061319\  
Data File : BG041239.D  
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Sample : K3333-04  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
CONCRETE-4

Quant Time: Jun 14 04:56:28 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG052919.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sun Jun 09 23:08:34 2019  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 8.10 min Scan# 853

Delta R.T. -0.01 min

Lab File: BG041239.D

Acq: 14 Jun 2019 3:08

Instrument :

BNA\_G

ClientSampleId :

CONCRETE-4

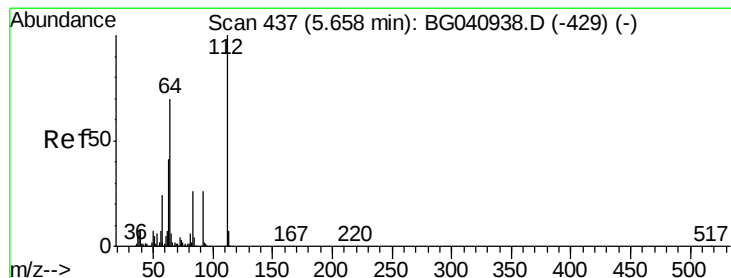
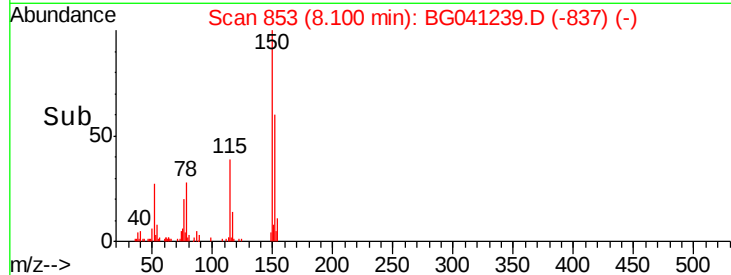
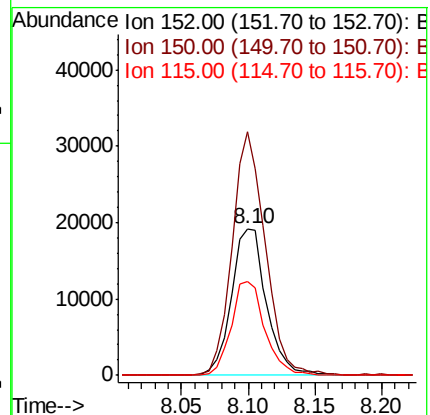
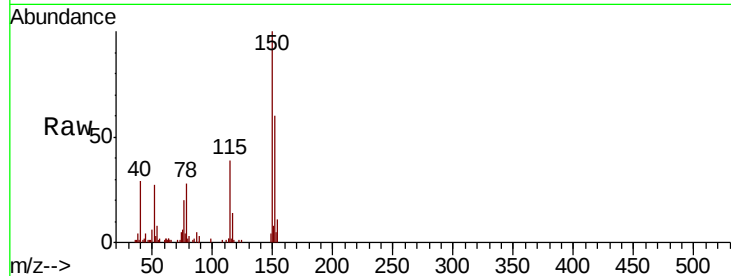
Tgt Ion:152 Resp: 35042

Ion Ratio Lower Upper

152 100

150 165.7 120.6 180.8

115 64.1 45.1 67.7



#5

2-Fluorophenol

Concen: 62.550 ng

RT: 5.64 min Scan# 434

Delta R.T. 0.00 min

Lab File: BG041239.D

Acq: 14 Jun 2019 3:08

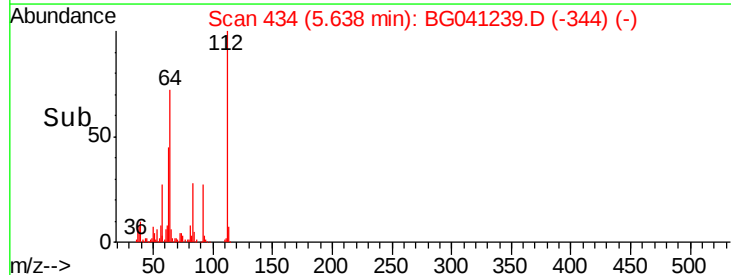
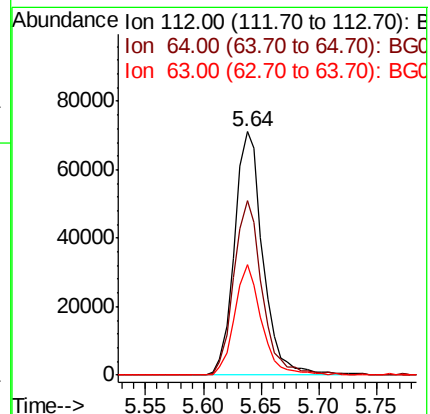
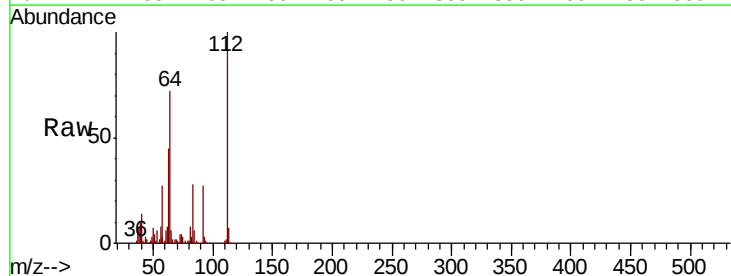
Tgt Ion:112 Resp: 121555

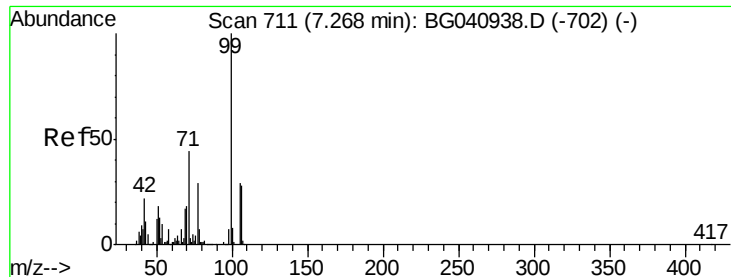
Ion Ratio Lower Upper

112 100

64 71.8 56.2 84.2

63 45.3 32.8 49.2





#7

Phenol-d6

Concen: 97.331 ng

RT: 7.25 min Scan# 708

Delta R.T. 0.00 min

Lab File: BG041239.D

Acq: 14 Jun 2019 3:08

Instrument :

BNA\_G

ClientSampleId :

CONCRETE-4

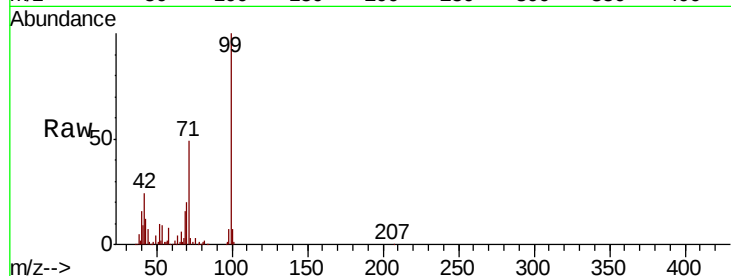
Tgt Ion: 99 Resp: 292115

Ion Ratio Lower Upper

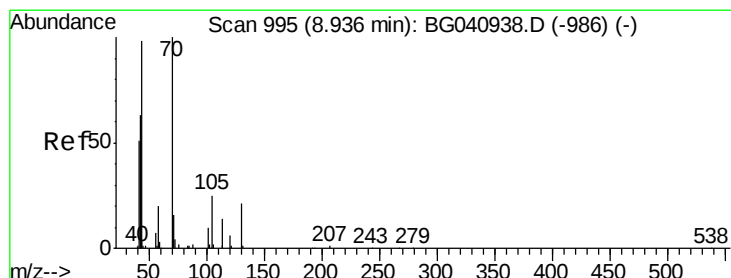
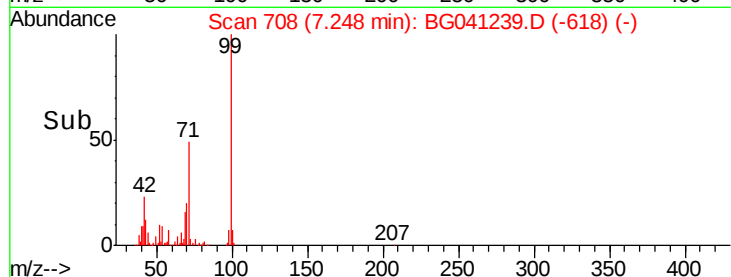
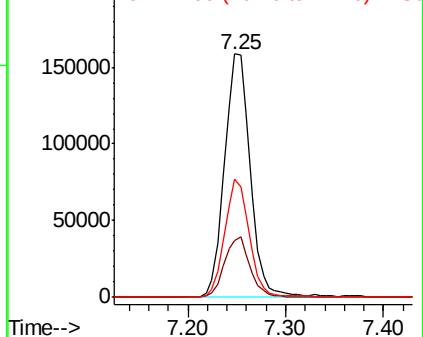
99 100

42 23.5 17.9 26.9

71 48.6 35.4 53.0



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: 14.695 ng

RT: 9.27 min Scan# 1053

Delta R.T. 0.36 min

Lab File: BG041239.D

Acq: 14 Jun 2019 3:08

Tgt Ion: 70 Resp: 33939

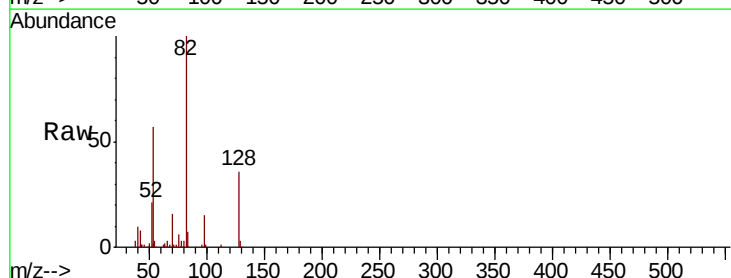
Ion Ratio Lower Upper

70 100

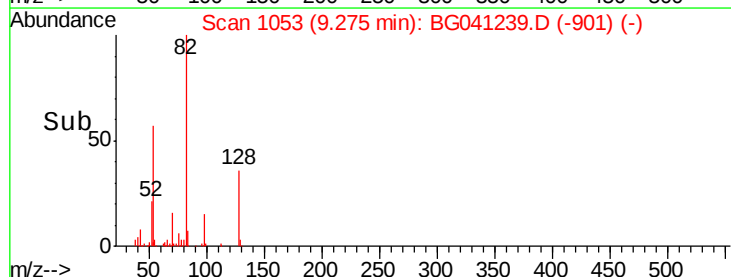
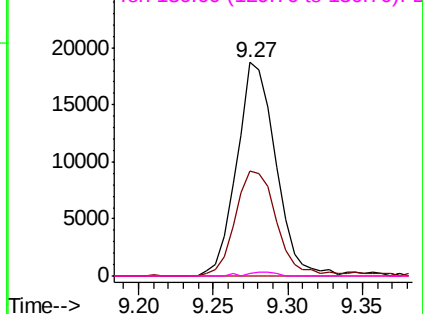
42 49.3 51.5 77.3#

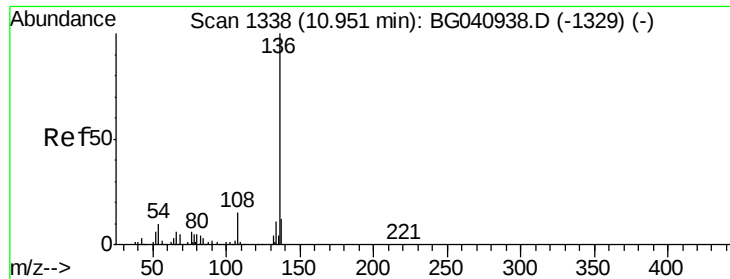
101 0.0 8.1 12.1#

130 1.0 16.6 24.8#



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

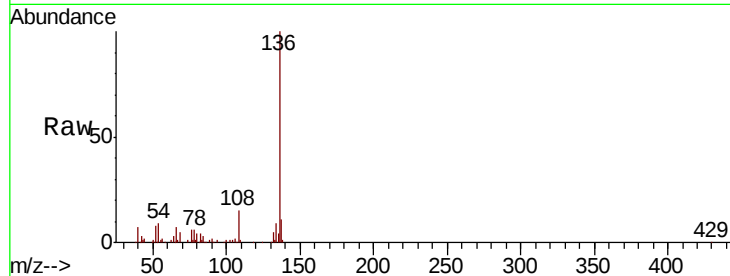




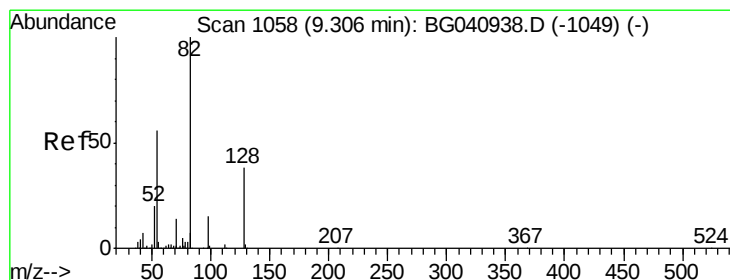
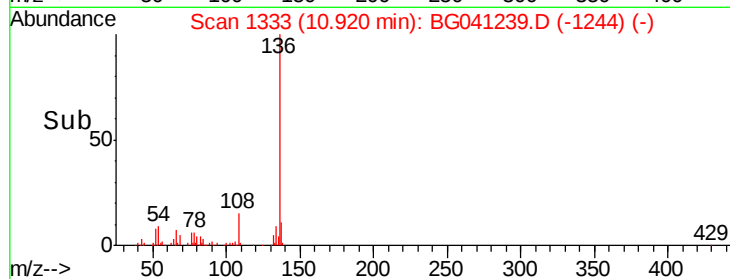
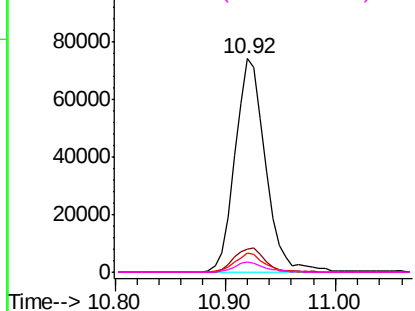
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.92 min Scan# 1333  
Delta R.T. -0.01 min  
Lab File: BG041239.D  
Acq: 14 Jun 2019 3:08

Instrument :  
BNA\_G  
ClientSampleId :  
CONCRETE-4

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 143349 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.0  | 9.5   | 14.3   |
| 54       | 9.0   | 7.6   | 11.4   |
| 68       | 4.6   | 3.9   | 5.9    |

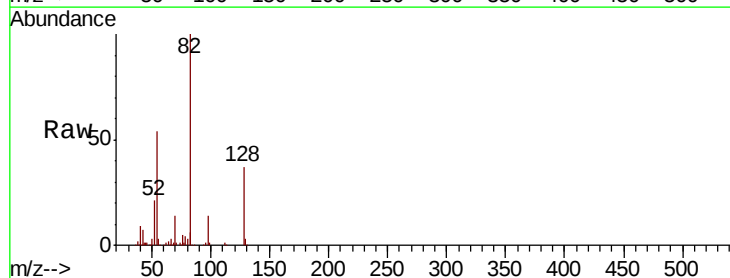


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

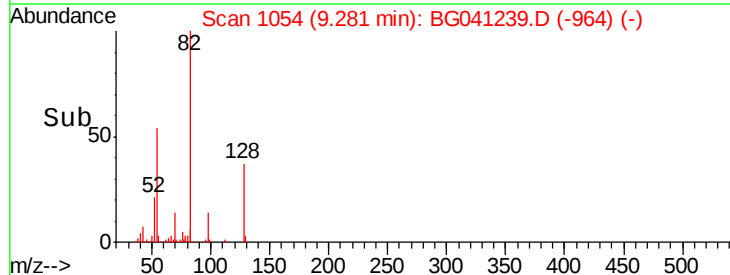
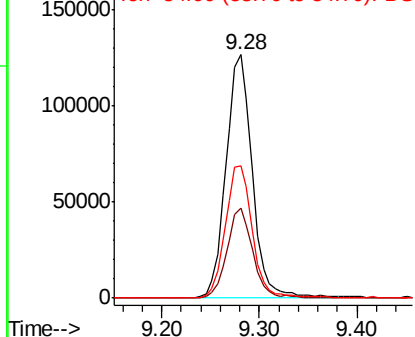


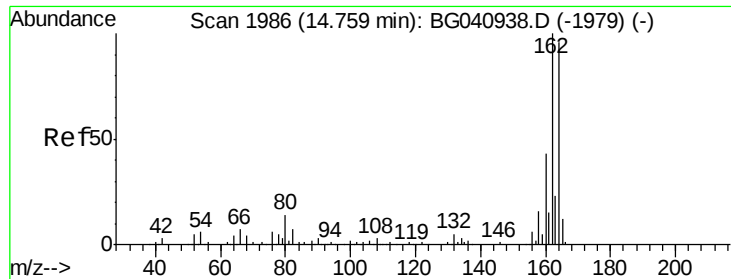
#23  
Nitrobenzene-d5  
Concen: 73.227 ng  
RT: 9.28 min Scan# 1054  
Delta R.T. 0.00 min  
Lab File: BG041239.D  
Acq: 14 Jun 2019 3:08

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 236453 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 37.1  | 30.5  | 45.7   |
| 54       | 54.2  | 44.6  | 66.8   |



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





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.73 min Scan# 1982

Delta R.T. -0.01 min

Lab File: BG041239.D

Acq: 14 Jun 2019 3:08

Instrument :

BNA\_G

ClientSampleId :

CONCRETE-4

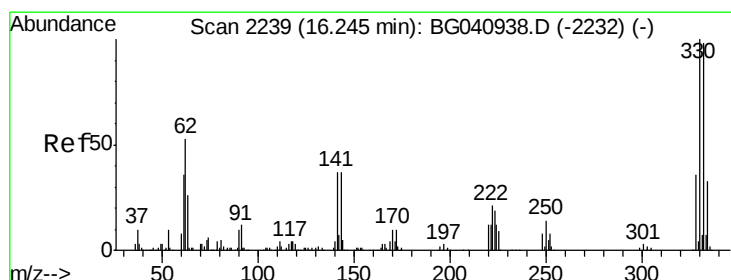
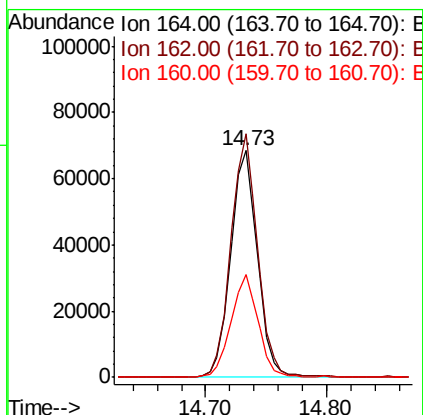
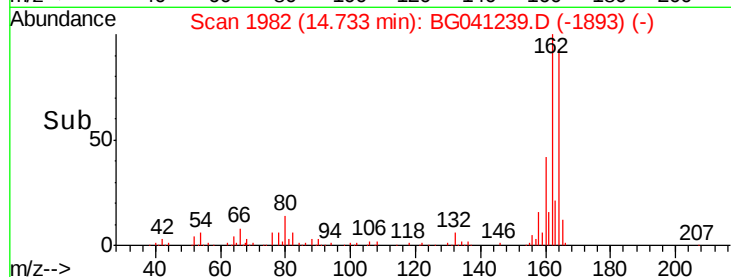
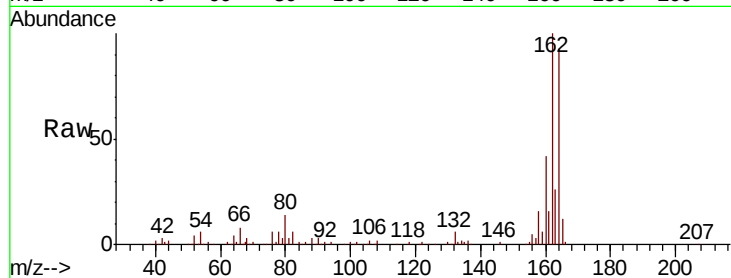
Tgt Ion:164 Resp: 105819

Ion Ratio Lower Upper

164 100

162 107.5 83.0 124.4

160 45.5 35.6 53.4



#42

2,4,6-Tribromophenol

Concen: 8.194 ng

RT: 16.23 min Scan# 2236

Delta R.T. 0.00 min

Lab File: BG041239.D

Acq: 14 Jun 2019 3:08

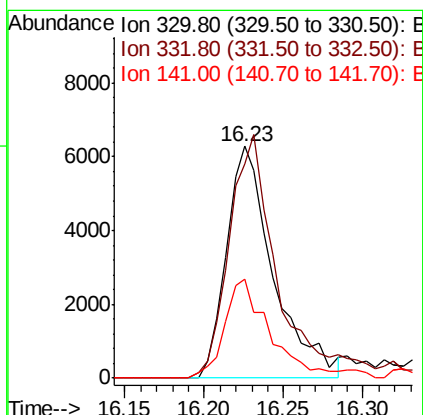
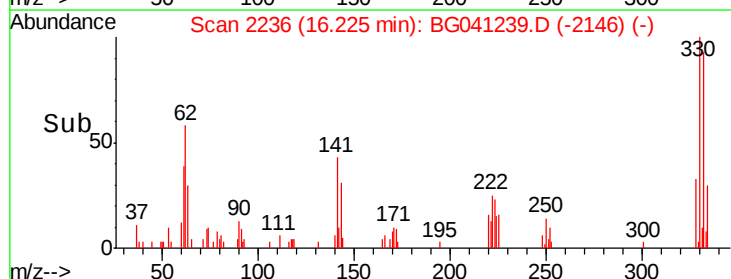
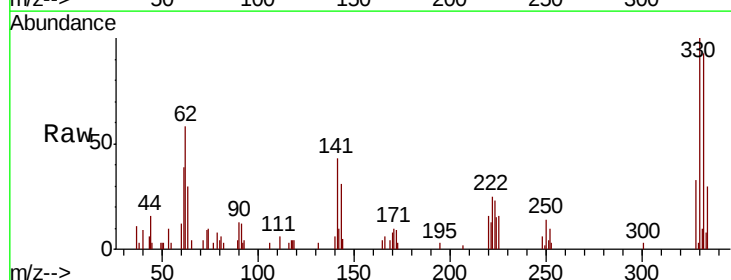
Tgt Ion:330 Resp: 12873

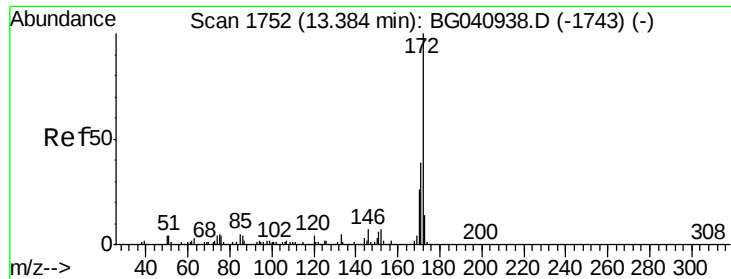
Ion Ratio Lower Upper

330 100

332 108.5 78.5 117.7

141 41.0 28.7 43.1

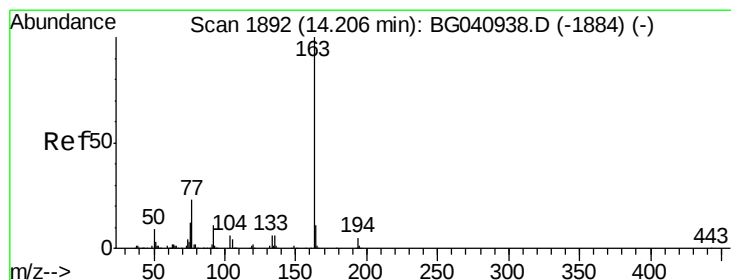
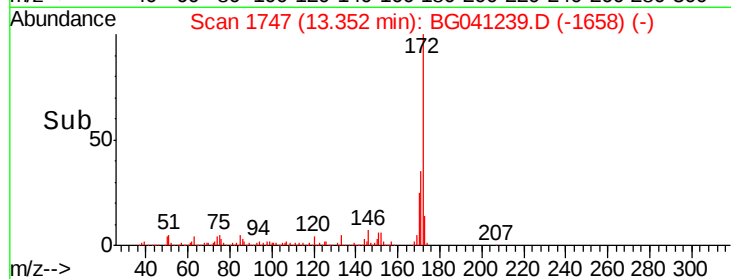
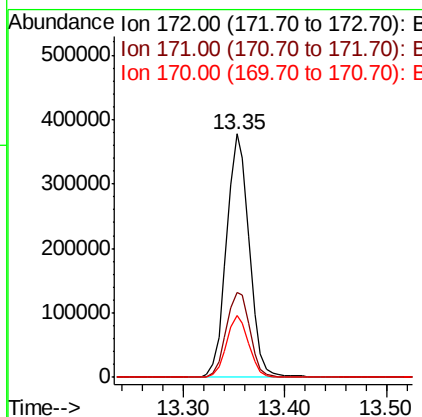
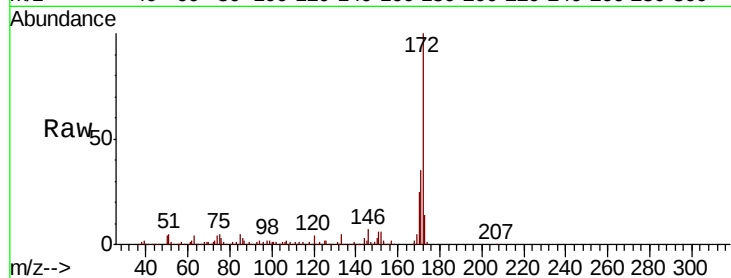




#45  
 2-Fluorobiphenyl  
 Concen: 80.001 ng  
 RT: 13.35 min Scan# 1747  
 Delta R.T. -0.01 min  
 Lab File: BG041239.D  
 Acq: 14 Jun 2019 3:08

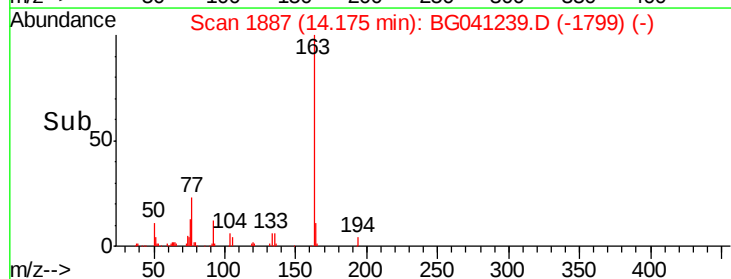
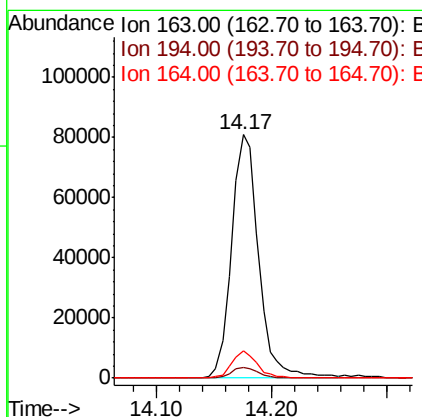
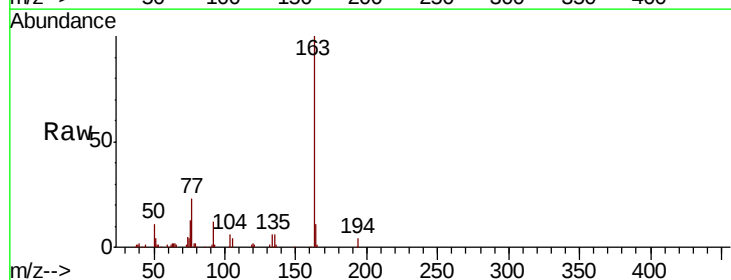
Instrument :  
 BNA\_G  
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 CONCRETE-4

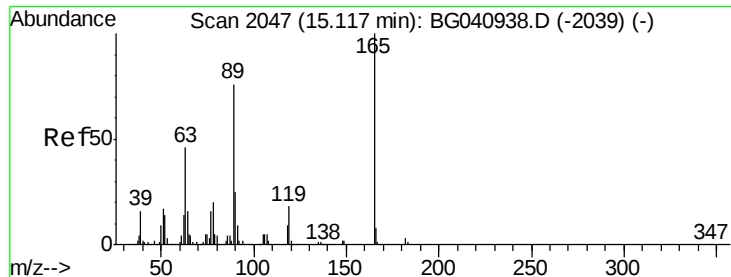
Tgt Ion:172 Resp: 587850  
 Ion Ratio Lower Upper  
 172 100  
 171 35.0 31.1 46.7  
 170 25.3 20.5 30.7



#50  
 Dimethylphthalate  
 Concen: 14.533 ng  
 RT: 14.17 min Scan# 1887  
 Delta R.T. -0.01 min  
 Lab File: BG041239.D  
 Acq: 14 Jun 2019 3:08

Tgt Ion:163 Resp: 130179  
 Ion Ratio Lower Upper  
 163 100  
 194 4.2 3.8 5.8  
 164 11.1 8.7 13.1

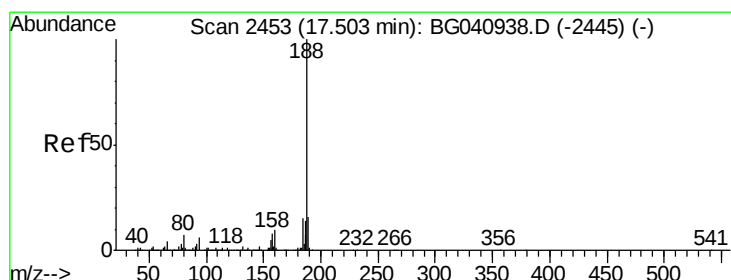
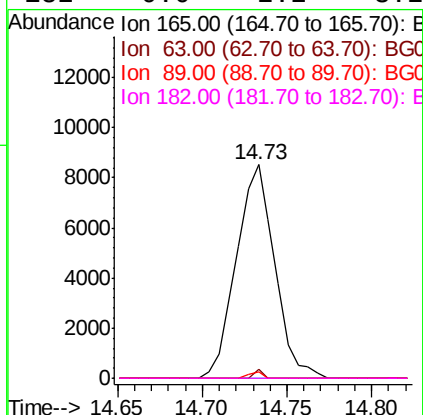
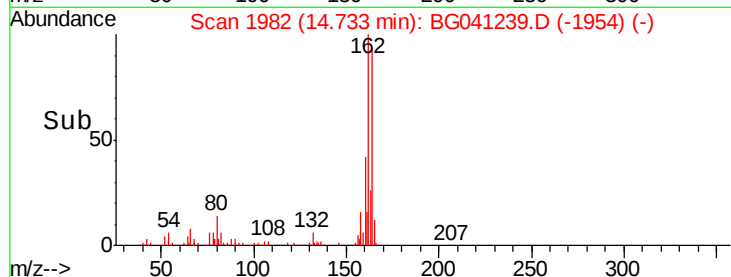
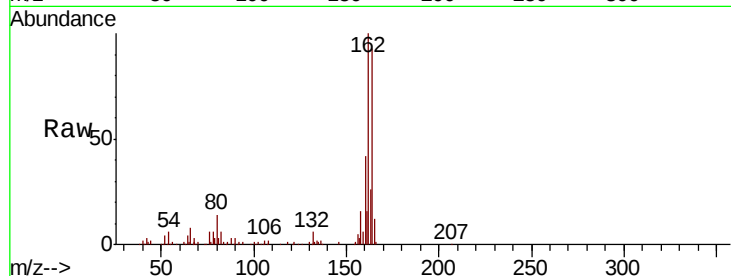




#57  
 2,4-Dinitrotoluene  
 Concen: 4.929 ng  
 RT: 14.73 min Scan# 1982  
 Delta R.T. -0.36 min  
 Lab File: BG041239.D  
 Acq: 14 Jun 2019 3:08

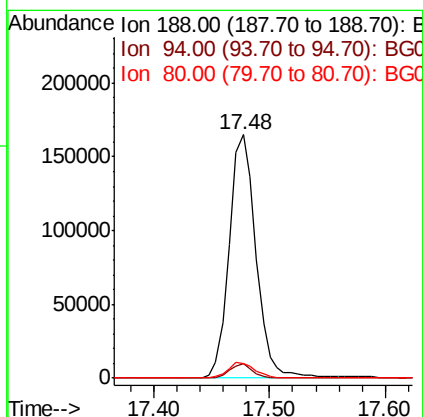
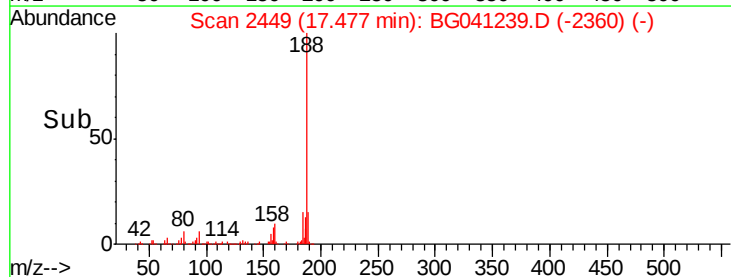
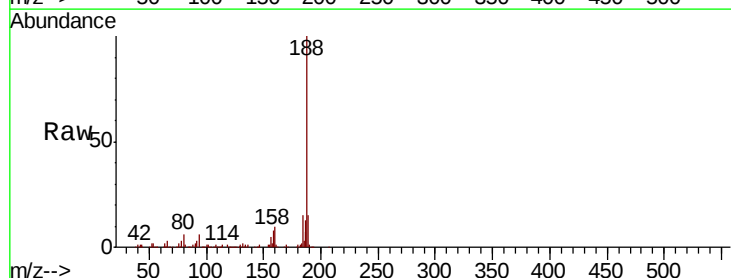
Instrument :  
 BNA\_G  
 ClientSampleId :  
 CONCRETE-4

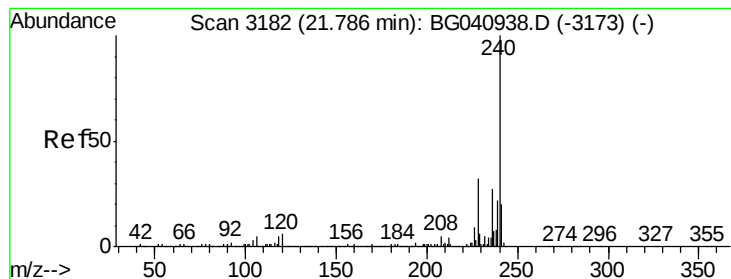
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 3.9   | 37.3  | 55.9# |
| 89      | 3.0   | 61.0  | 91.6# |
| 182     | 0.0   | 2.2   | 3.2#  |



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.48 min Scan# 2449  
 Delta R.T. -0.01 min  
 Lab File: BG041239.D  
 Acq: 14 Jun 2019 3:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 6.0   | 4.7   | 7.1   |
| 80      | 5.9   | 5.8   | 8.8   |





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.75 min Scan# 3177

Delta R.T. -0.01 min

Lab File: BG041239.D

Acq: 14 Jun 2019 3:08

Instrument :

BNA\_G

ClientSampleId :

CONCRETE-4

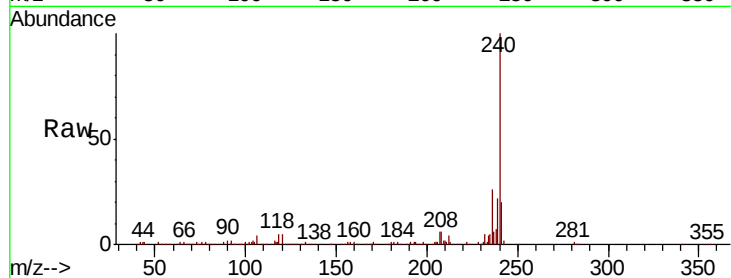
Tgt Ion:240 Resp: 251032

Ion Ratio Lower Upper

240 100

120 4.6 4.5 6.7

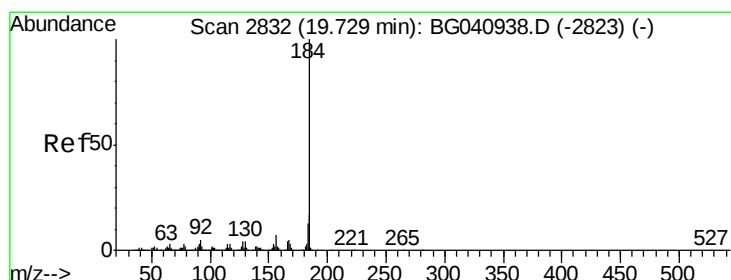
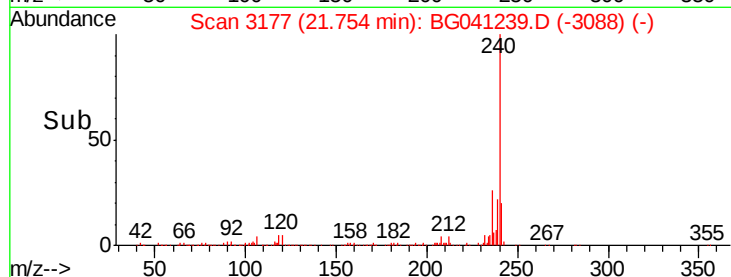
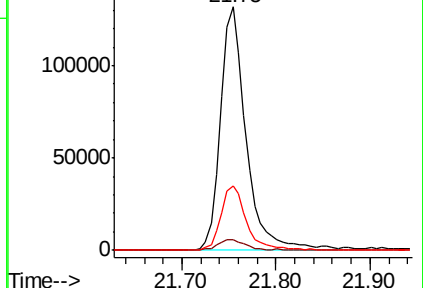
236 26.5 21.3 31.9



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: 2.716 ng

RT: 20.07 min Scan# 2891

Delta R.T. 0.36 min

Lab File: BG041239.D

Acq: 14 Jun 2019 3:08

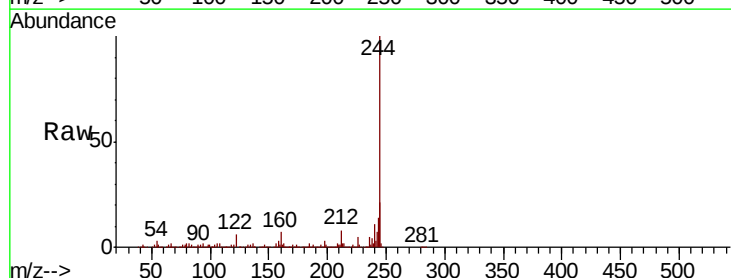
Tgt Ion:184 Resp: 16267

Ion Ratio Lower Upper

184 100

185 18.7 13.3 19.9

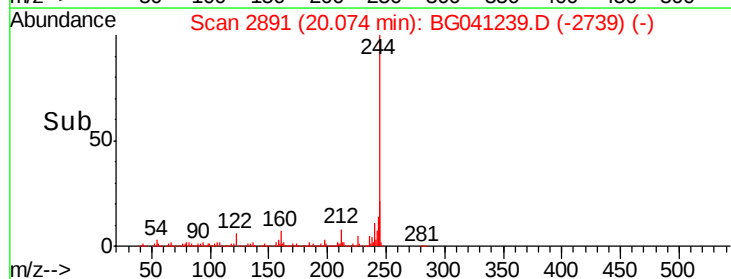
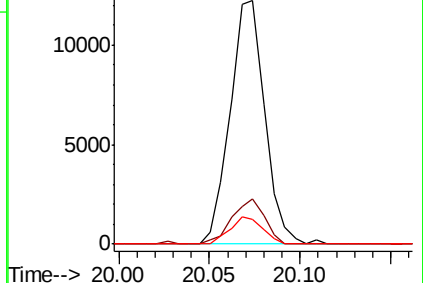
183 10.2 10.7 16.1#

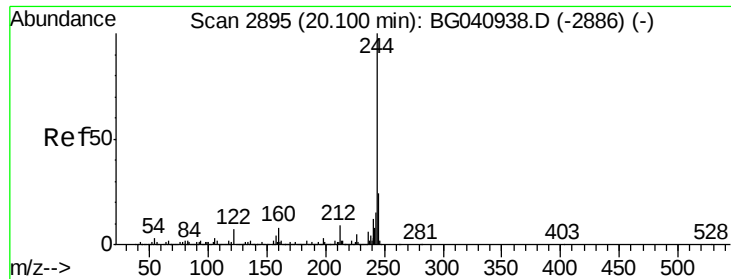


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#79

Terphenyl-d14

Concen: 85.542 ng

RT: 20.07 min Scan# 2891

Delta R.T. 0.00 min

Lab File: BG041239.D

Acq: 14 Jun 2019 3:08

Instrument :

BNA\_G

ClientSampleId :

CONCRETE-4

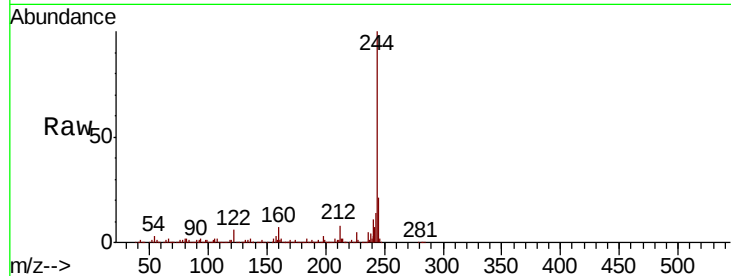
Tgt Ion:244 Resp: 1011790

Ion Ratio Lower Upper

244 100

212 8.2 7.0 10.4

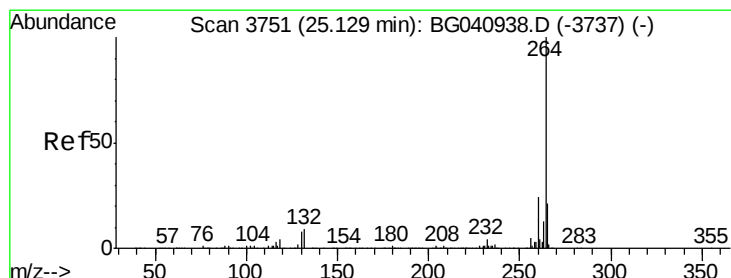
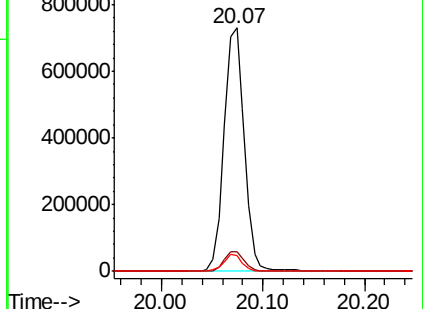
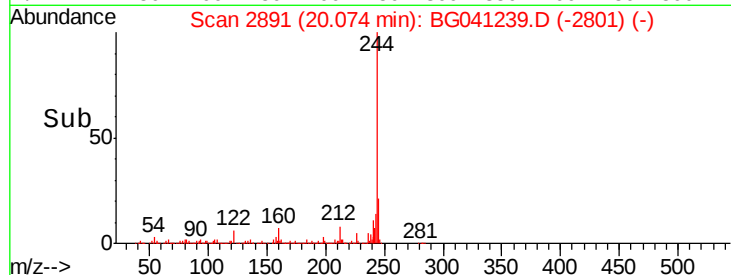
122 6.3 5.4 8.0



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



#87

Perylene-d12

Concen: 20.000 ng

RT: 25.09 min Scan# 3744

Delta R.T. 0.00 min

Lab File: BG041239.D

Acq: 14 Jun 2019 3:08

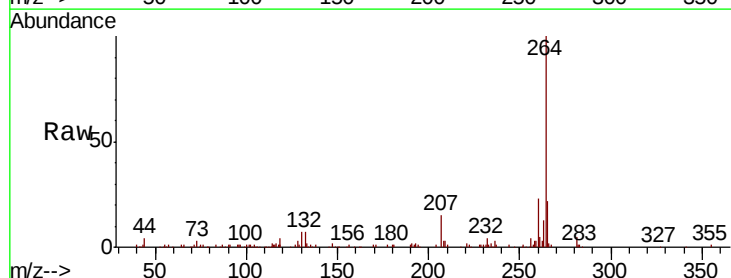
Tgt Ion:264 Resp: 216324

Ion Ratio Lower Upper

264 100

260 22.6 19.0 28.4

265 22.2 17.0 25.4



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

