

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG051019\  
 Data File : BG040860.D  
 Acq On : 11 May 2019 00:29  
 Operator : HP/JU  
 Sample : K2770-06  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SOIL-DRUM

Quant Time: May 11 05:45:18 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG042319.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Apr 24 05:35:33 2019  
 Response via : Initial Calibration

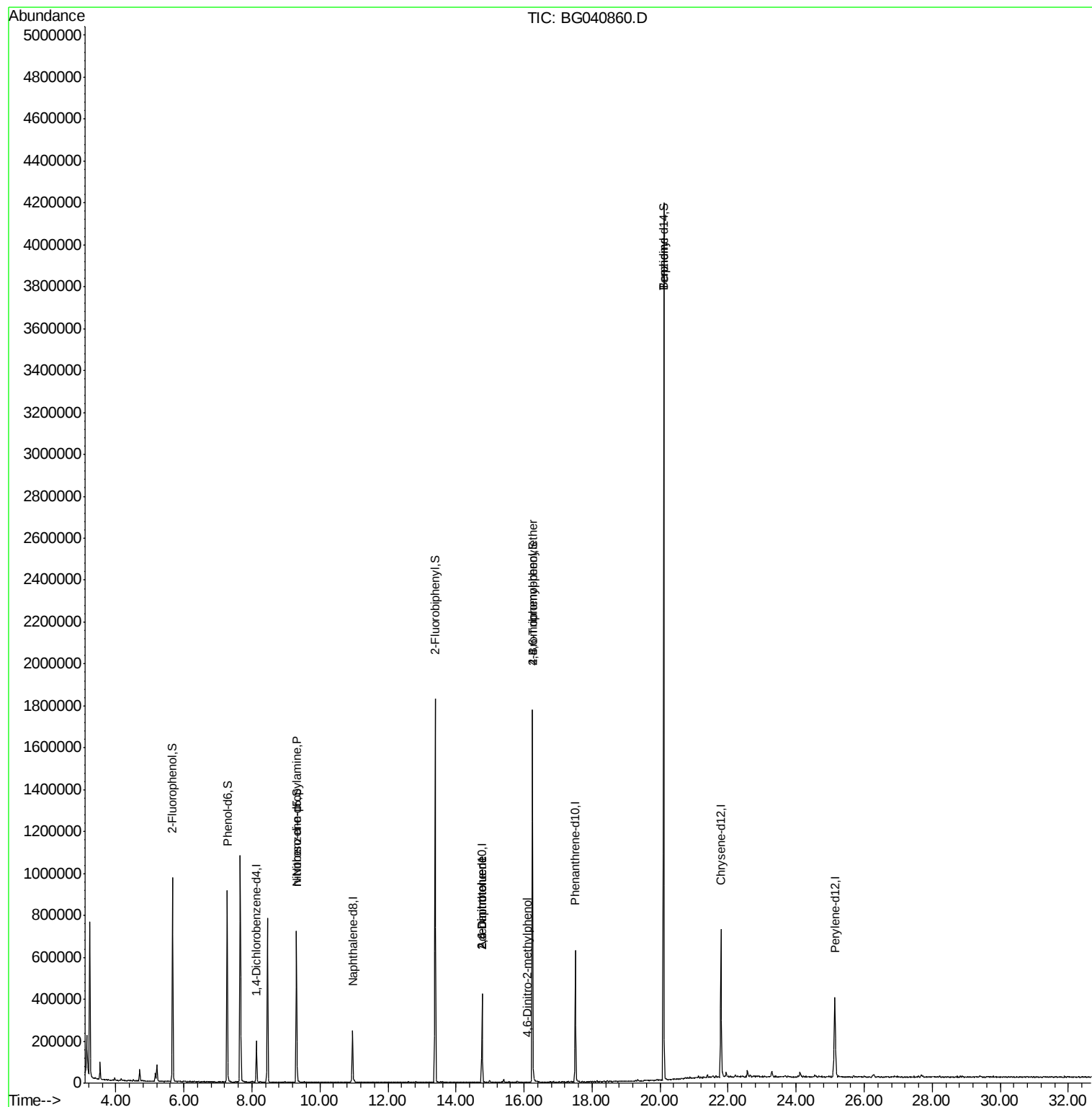
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.13  | 152  | 51454    | 20.00     | ng     | -0.03    |
| 21) Naphthalene-d8             | 10.96 | 136  | 193765   | 20.00     | ng     | -0.03    |
| 39) Acenaphthene-d10           | 14.76 | 164  | 139959   | 20.00     | ng     | -0.03    |
| 64) Phenanthrene-d10           | 17.51 | 188  | 391636   | 20.00     | ng     | -0.03    |
| 76) Chrysene-d12               | 21.79 | 240  | 440169   | 20.00     | ng     | -0.04    |
| 87) Perylene-d12               | 25.13 | 264  | 442032   | 20.00     | ng     | -0.07    |
| System Monitoring Compounds    |       |      |          |           |        |          |
| 5) 2-Fluorophenol              | 5.67  | 112  | 370862   | 127.05    | ng     | -0.01    |
| 7) Phenol-d6                   | 7.27  | 99   | 476491   | 106.02    | ng     | -0.02    |
| 23) Nitrobenzene-d5            | 9.31  | 82   | 420403   | 100.25    | ng     | -0.03    |
| 42) 2,4,6-Tribromophenol       | 16.25 | 330  | 340250   | 176.87    | ng     | -0.02    |
| 45) 2-Fluorobiphenyl           | 13.39 | 172  | 929659   | 95.93     | ng     | -0.03    |
| 79) Terphenyl-d14              | 20.11 | 244  | 1950109  | 98.15     | ng     | -0.03    |
| Target Compounds               |       |      |          |           |        |          |
| 9) Benzaldehyde                | 7.27  | 77   | 1127     | Below Cal | Qvalue | # 6      |
| 19) n-Nitroso-di-n-propylamine | 9.31  | 70   | 62305    | 15.400 ng | #      | 73       |
| 51) 2,6-Dinitrotoluene         | 14.76 | 165  | 18769    | 8.212 ng  | #      | 16       |
| 57) 2,4-Dinitrotoluene         | 14.76 | 165  | 18769    | 6.044 ng  | #      | 18       |
| 65) 4,6-Dinitro-2-methylphenol | 16.11 | 198  | 62       | 7.129 ng  | #      | 8        |
| 67) 4-Bromophenyl-phenylether  | 16.24 | 248  | 24420    | 5.005 ng  | #      | 1        |
| 77) Benzydine                  | 20.10 | 184  | 36638    | 3.040 ng  | #      | 95       |

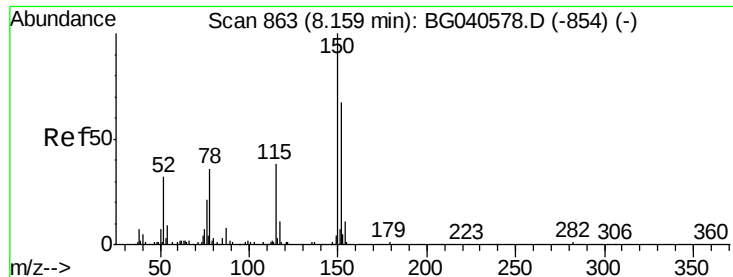
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG051019\  
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Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
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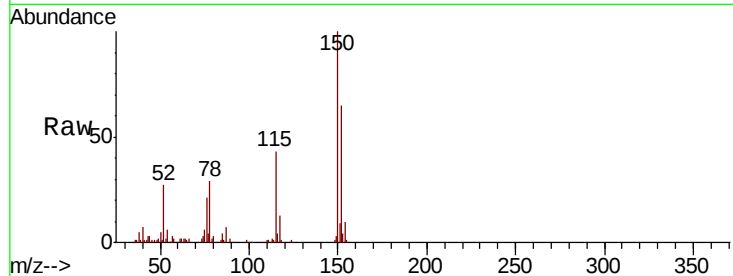


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.13 min Scan# 858  
Delta R.T. -0.03 min  
Lab File: BG040860.D  
Acq: 11 May 2019 00:29

Instrument :  
BNA\_G  
ClientSampleId :  
SOIL-DRUM

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 154.3 | 120.2 | 180.2 |
| 115     | 66.1  | 46.2  | 69.2  |

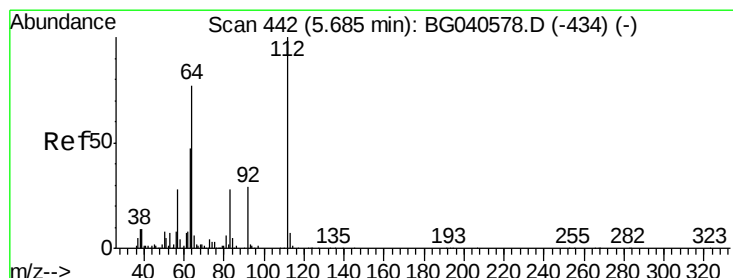
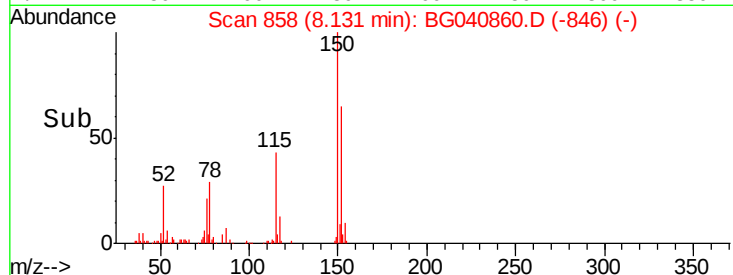
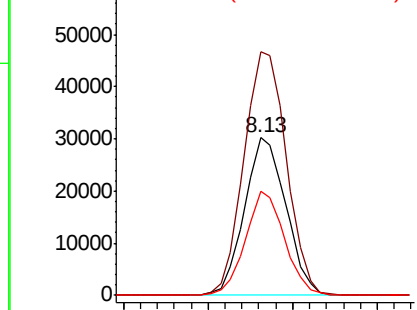


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

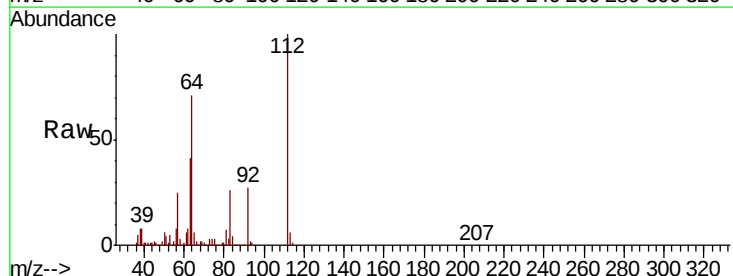
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 127.054 ng  
RT: 5.67 min Scan# 439  
Delta R.T. -0.01 min  
Lab File: BG040860.D  
Acq: 11 May 2019 00:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 70.9  | 61.4  | 92.0  |
| 63      | 40.6  | 37.8  | 56.6  |

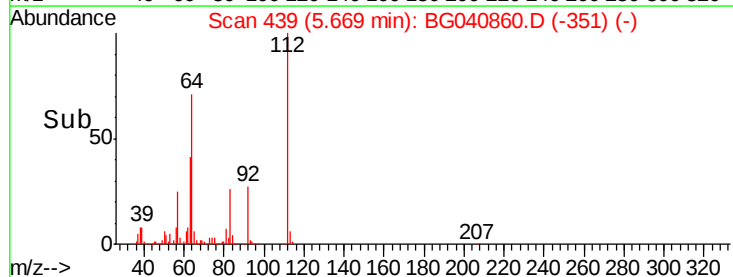
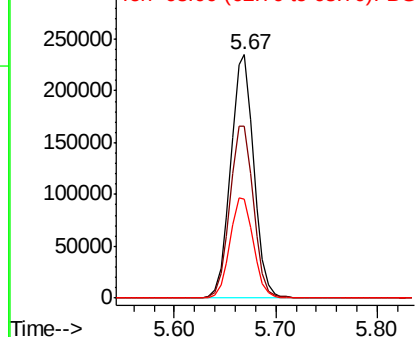


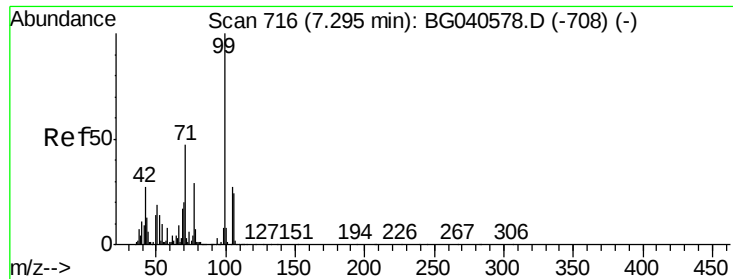
Abundance

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: 106.020 ng

RT: 7.27 min Scan# 712

Delta R.T. -0.02 min

Lab File: BG040860.D

Acq: 11 May 2019 00:29

Instrument :

BNA\_G

ClientSampleId :

SOIL-DRUM

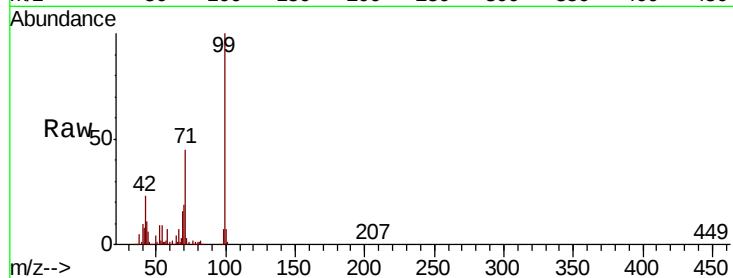
Tgt Ion: 99 Resp: 476491

Ion Ratio Lower Upper

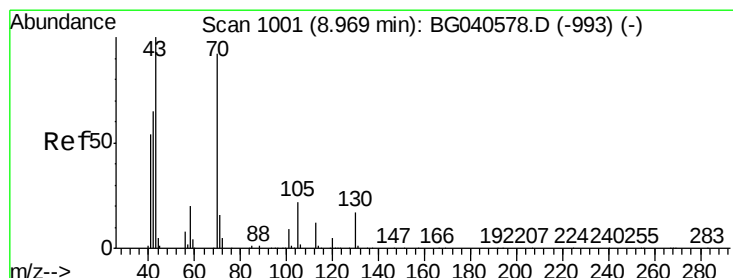
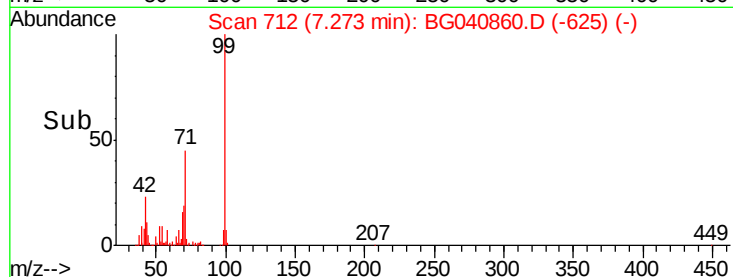
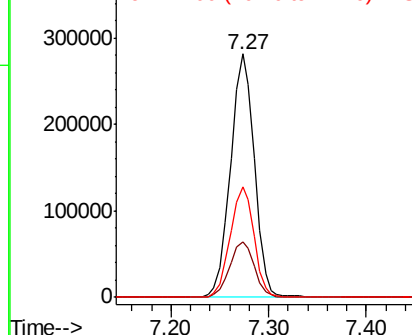
99 100

42 22.9 21.8 32.8

71 45.3 38.6 57.8



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: 15.400 ng

RT: 9.31 min Scan# 1059

Delta R.T. 0.34 min

Lab File: BG040860.D

Acq: 11 May 2019 00:29

Tgt Ion: 70 Resp: 62305

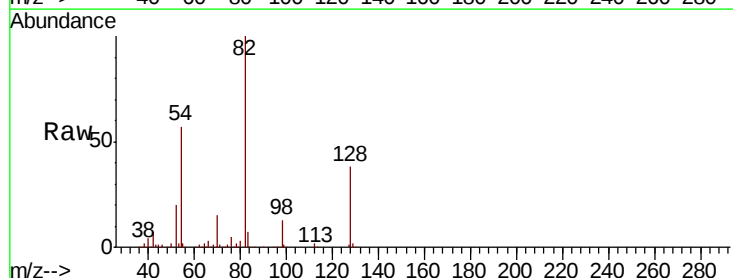
Ion Ratio Lower Upper

70 100

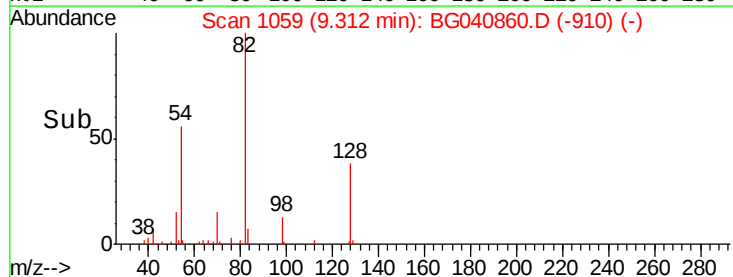
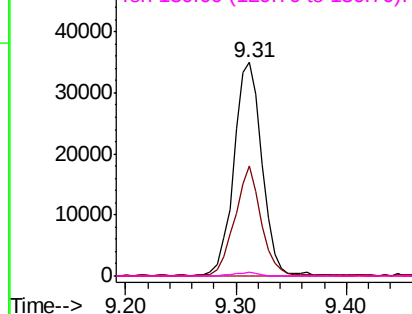
42 51.5 57.1 85.7#

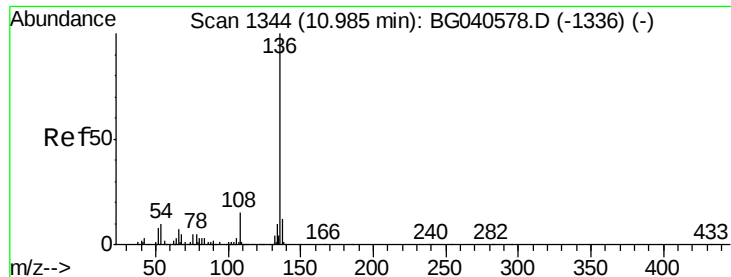
101 0.0 7.8 11.8#

130 1.6 14.6 21.8#



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

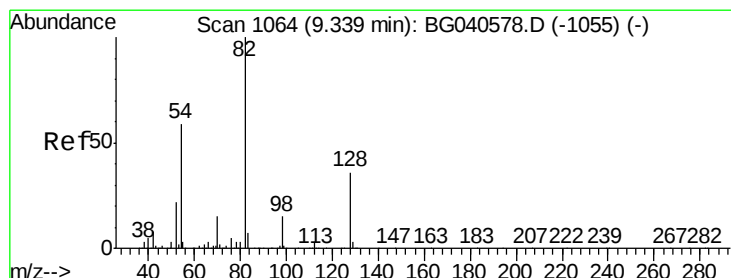
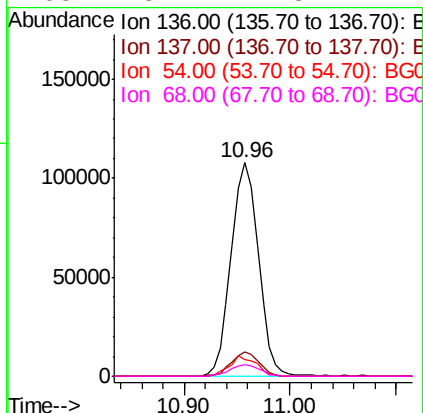
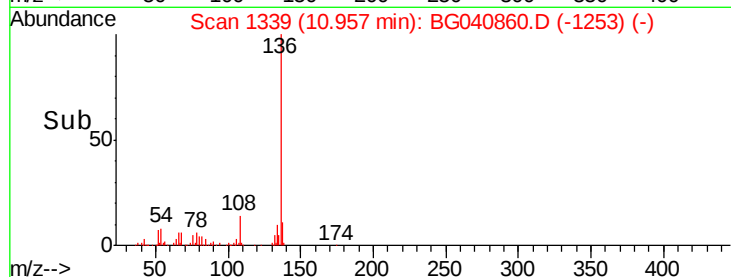
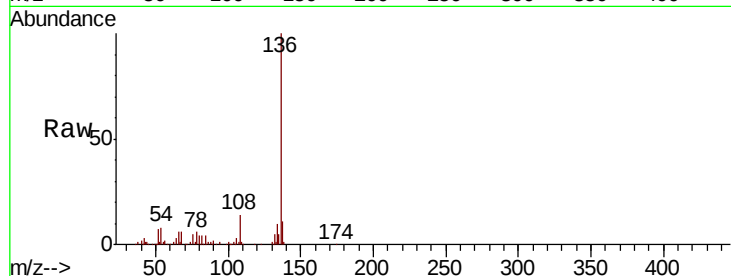




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.96 min Scan# 1339  
Delta R.T. -0.03 min  
Lab File: BG040860.D  
Acq: 11 May 2019 00:29

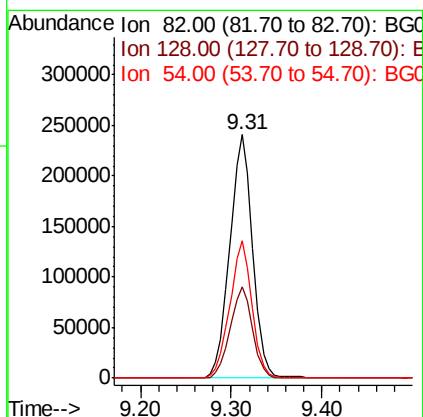
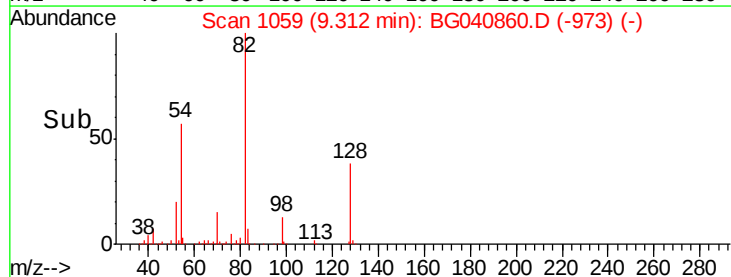
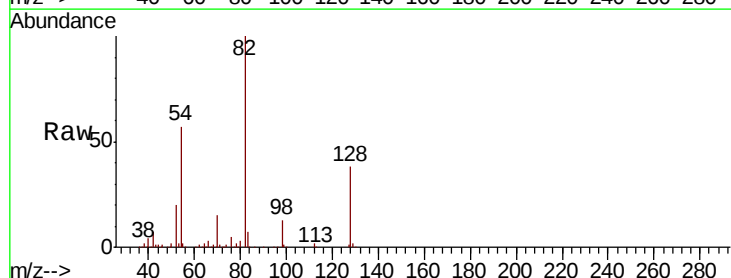
Instrument :  
BNA\_G  
ClientSampleId :  
SOIL-DRUM

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 193765 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.3  | 9.7   | 14.5   |
| 54       | 7.7   | 8.6   | 12.8#  |
| 68       | 5.7   | 4.8   | 7.2    |



#23  
Nitrobenzene-d5  
Concen: 100.252 ng  
RT: 9.31 min Scan# 1059  
Delta R.T. -0.03 min  
Lab File: BG040860.D  
Acq: 11 May 2019 00:29

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 420403 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 37.7  | 28.9  | 43.3   |
| 54       | 56.6  | 47.2  | 70.8   |





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.76 min Scan# 1987

Delta R.T. -0.03 min

Lab File: BG040860.D

Acq: 11 May 2019 00:29

Instrument :

BNA\_G

ClientSampleId :

SOIL-DRUM

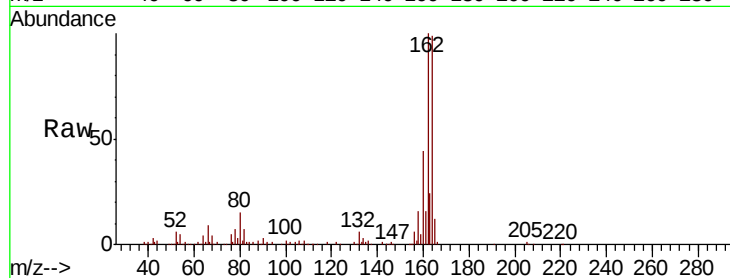
Tgt Ion:164 Resp: 139959

Ion Ratio Lower Upper

164 100

162 101.3 81.9 122.9

160 44.6 35.4 53.2

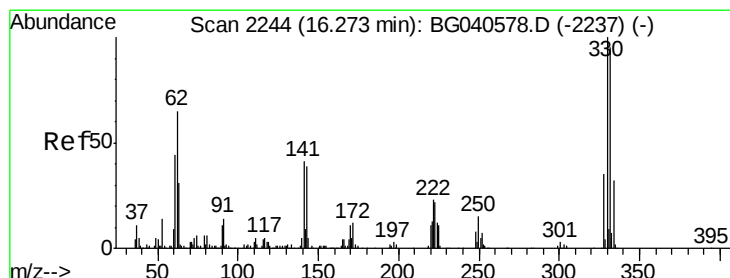
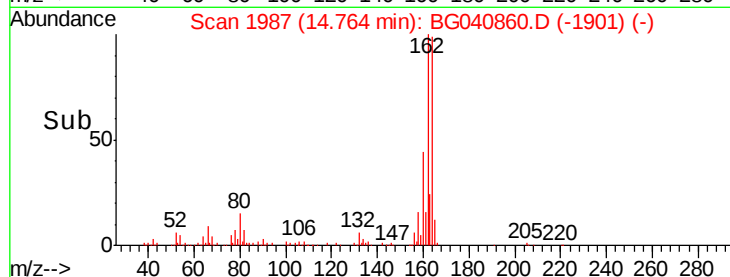
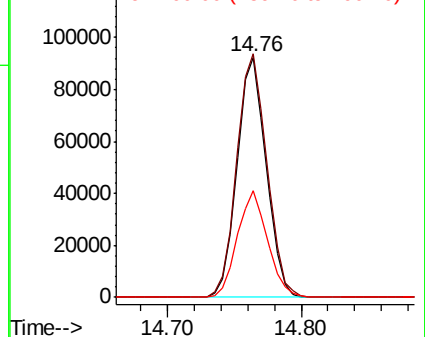


Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42

2,4,6-Tribromophenol

Concen: 176.866 ng

RT: 16.25 min Scan# 2240

Delta R.T. -0.02 min

Lab File: BG040860.D

Acq: 11 May 2019 00:29

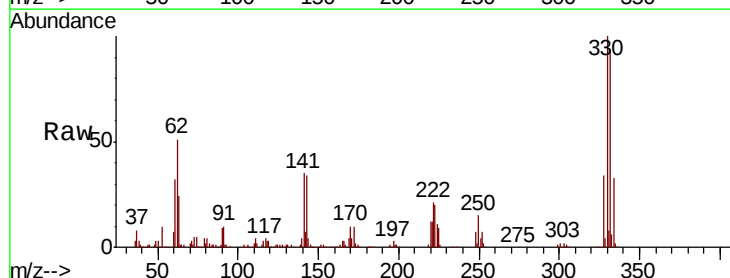
Tgt Ion:330 Resp: 340250

Ion Ratio Lower Upper

330 100

332 95.1 75.9 113.9

141 36.0 32.4 48.6

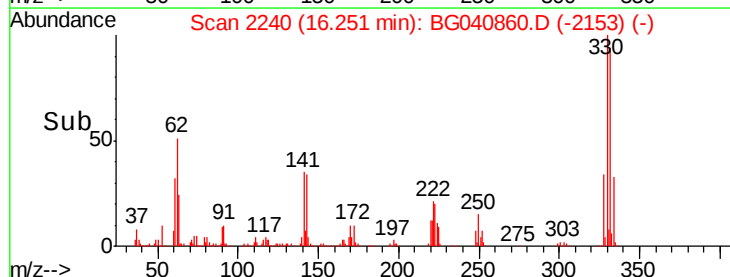
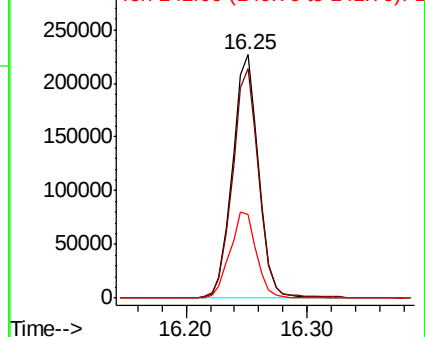


Abundance

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

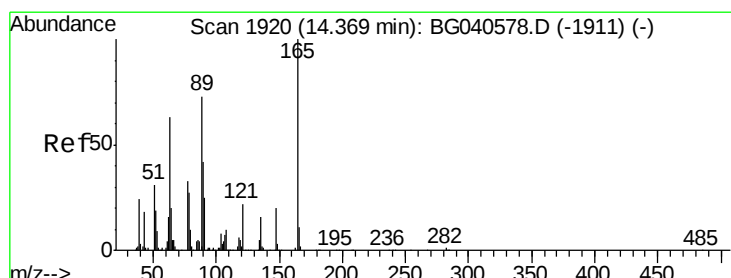
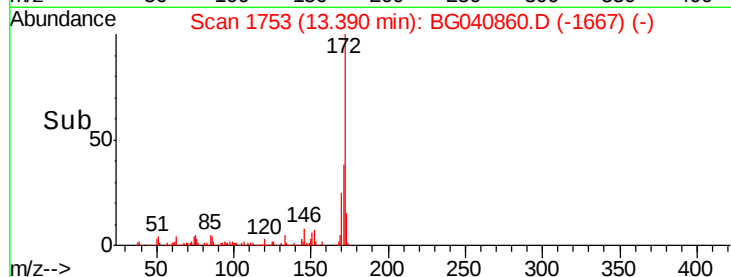
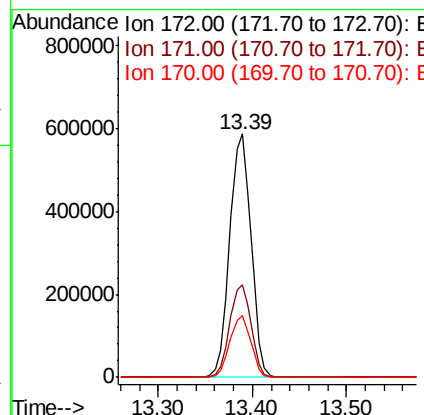
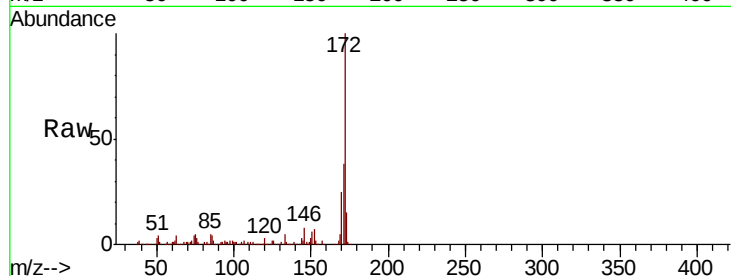




#45  
 2-Fluorobiphenyl  
 Concen: 95.929 ng  
 RT: 13.39 min Scan# 1753  
 Delta R.T. -0.03 min  
 Lab File: BG040860.D  
 Acq: 11 May 2019 00:29

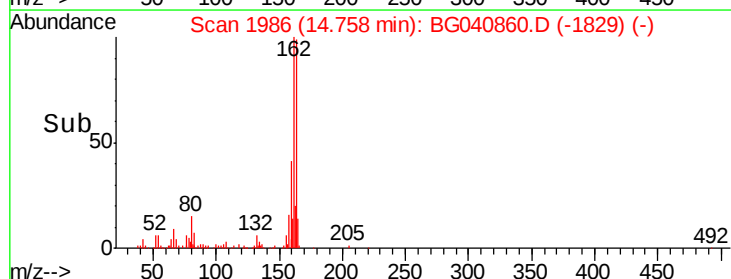
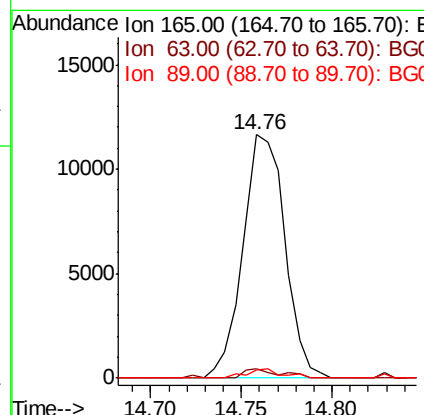
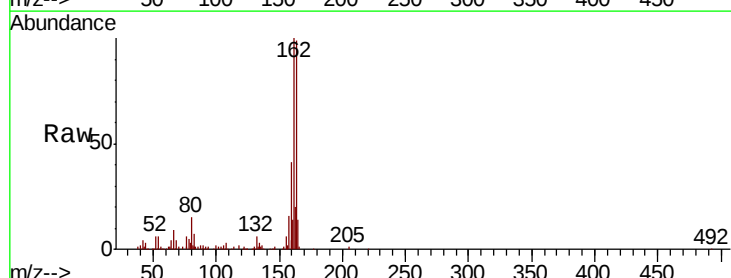
Instrument :  
 BNA\_G  
 ClientSampleId :  
 SOIL-DRUM

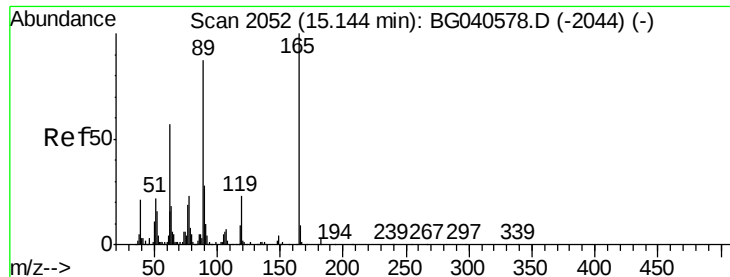
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 172   | Resp: | 929659 |
| Ion      | Ratio | Lower | Upper  |
| 172      | 100   |       |        |
| 171      | 37.9  | 29.4  | 44.2   |
| 170      | 25.2  | 19.9  | 29.9   |



#51  
 2,6-Dinitrotoluene  
 Concen: 8.212 ng  
 RT: 14.76 min Scan# 1986  
 Delta R.T. 0.39 min  
 Lab File: BG040860.D  
 Acq: 11 May 2019 00:29

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 165   | Resp: | 18769 |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 3.9   | 61.0  | 91.4# |
| 89       | 3.1   | 58.6  | 87.8# |

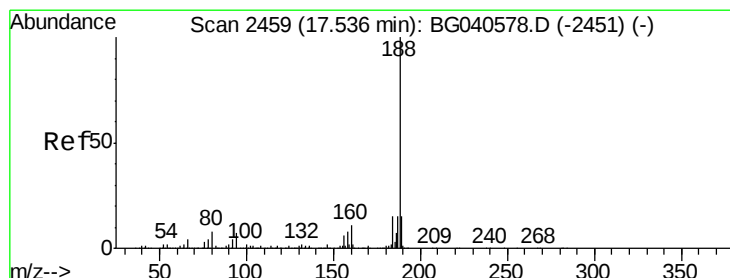
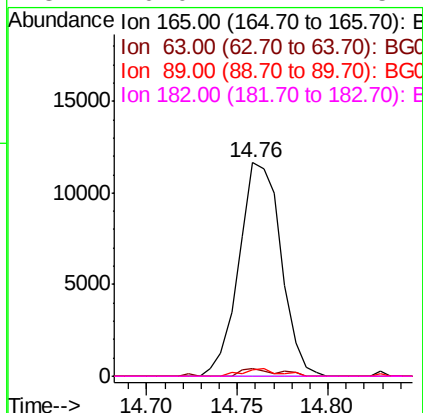
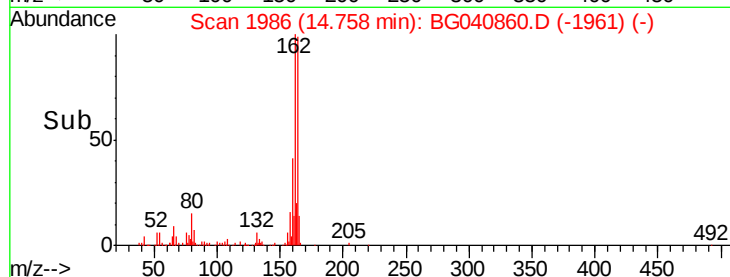
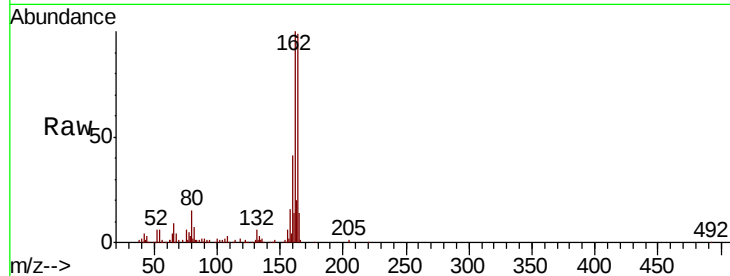




#57  
 2,4-Dinitrotoluene  
 Concen: 6.044 ng  
 RT: 14.76 min Scan# 1986  
 Delta R.T. -0.39 min  
 Lab File: BG040860.D  
 Acq: 11 May 2019 00:29

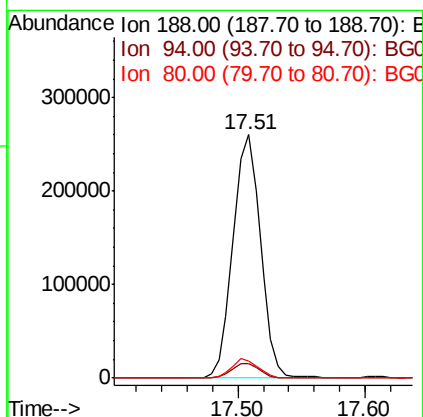
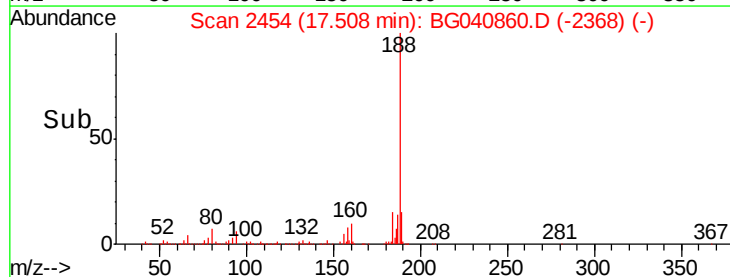
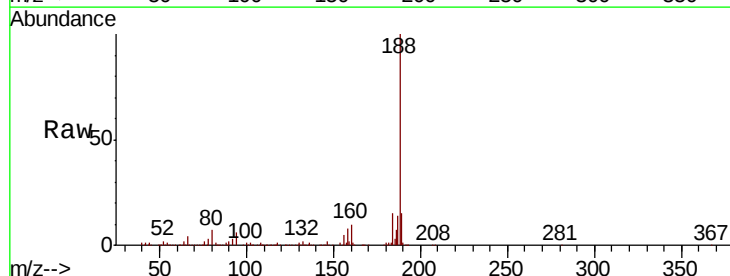
Instrument :  
 BNA\_G  
 ClientSampleId :  
 SOIL-DRUM

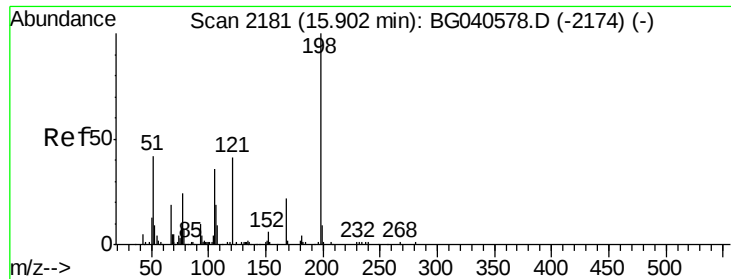
Tgt Ion:165 Resp: 18769  
 Ion Ratio Lower Upper  
 165 100  
 63 3.9 45.8 68.8#  
 89 3.1 69.4 104.2#  
 182 0.0 2.2 3.4#



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.51 min Scan# 2454  
 Delta R.T. -0.03 min  
 Lab File: BG040860.D  
 Acq: 11 May 2019 00:29

Tgt Ion:188 Resp: 391636  
 Ion Ratio Lower Upper  
 188 100  
 94 6.0 5.6 8.4  
 80 6.8 6.4 9.6





#65

4,6-Dinitro-2-methylphenol

Concen: 7.129 ng

RT: 16.11 min Scan# 2216

Delta R.T. 0.21 min

Lab File: BG040860.D

Acq: 11 May 2019 00:29

Instrument :

BNA\_G

ClientSampleId :

SOIL-DRUM

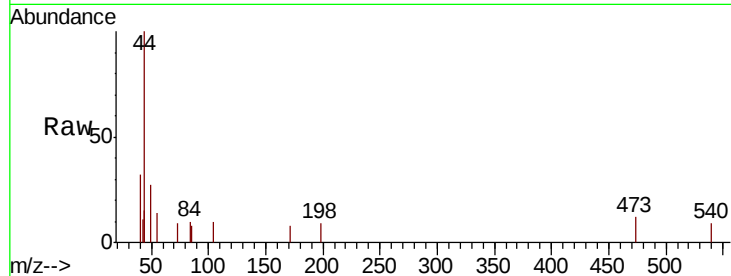
Tgt Ion:198 Resp: 62

Ion Ratio Lower Upper

198 100

51 0.0 35.9 75.9#

105 111.9 21.2 61.2#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BG

Ion 105.00 (104.70 to 105.70): E

400

300

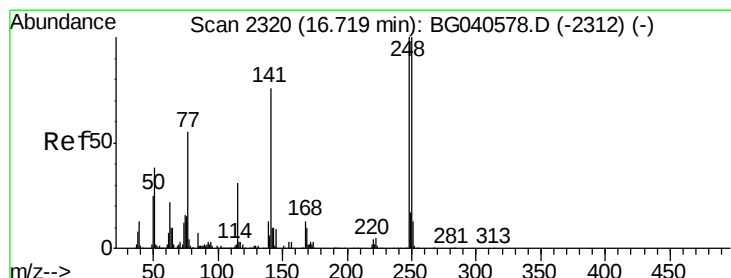
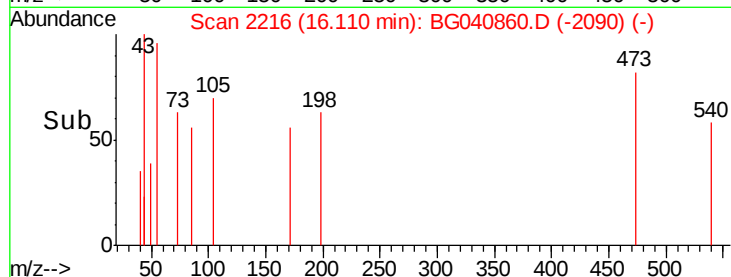
200

100

0

16.10 16.11 16.12

Time-->



#67

4-Bromophenyl-phenylether

Concen: 5.005 ng

RT: 16.24 min Scan# 2239

Delta R.T. -0.47 min

Lab File: BG040860.D

Acq: 11 May 2019 00:29

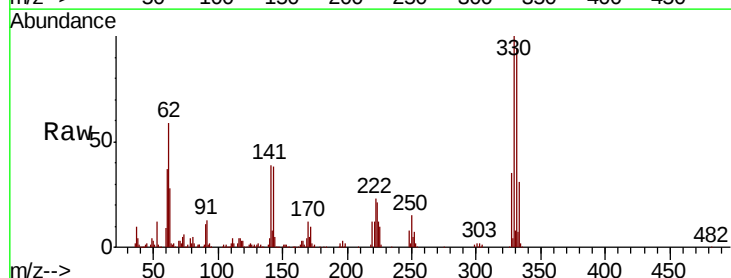
Tgt Ion:248 Resp: 24420

Ion Ratio Lower Upper

248 100

250 158.7 79.8 119.6#

141 401.6 60.8 91.2#



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

100000

80000

60000

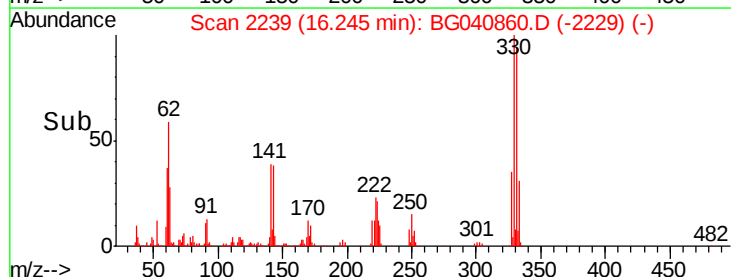
40000

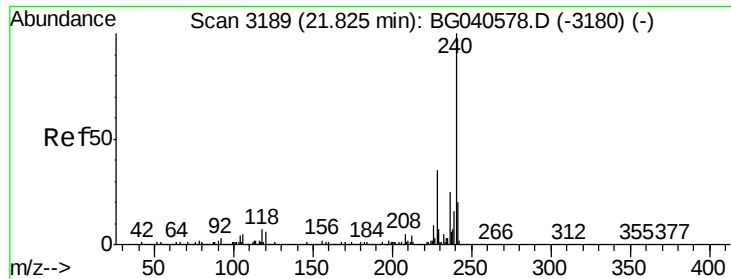
20000

0

16.20 16.24 16.30

Time-->

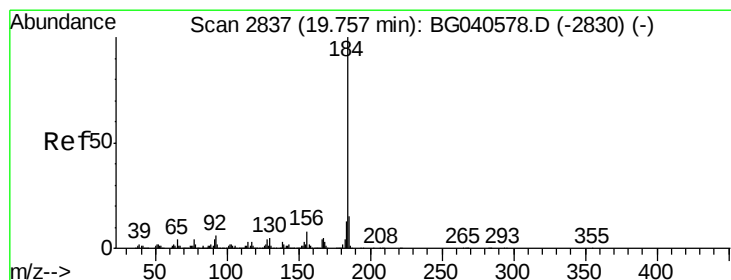
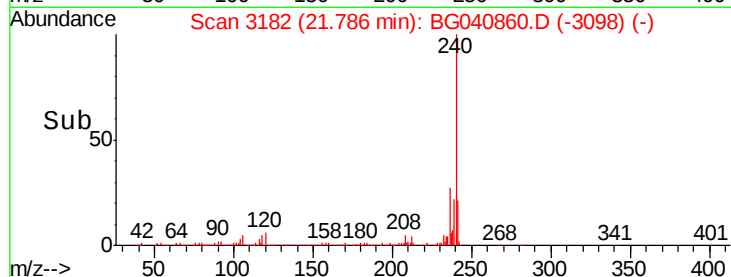
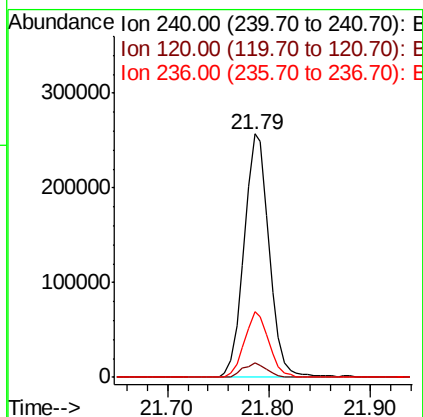
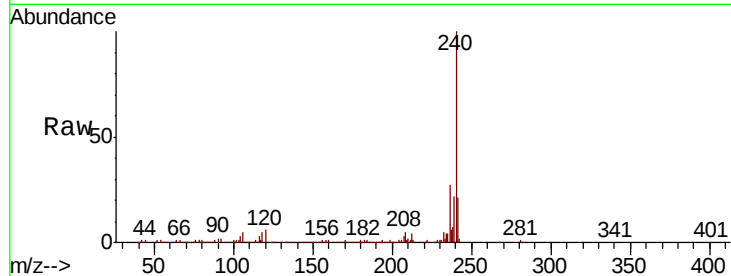




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.79 min Scan# 3182  
Delta R.T. -0.04 min  
Lab File: BG040860.D  
Acq: 11 May 2019 00:29

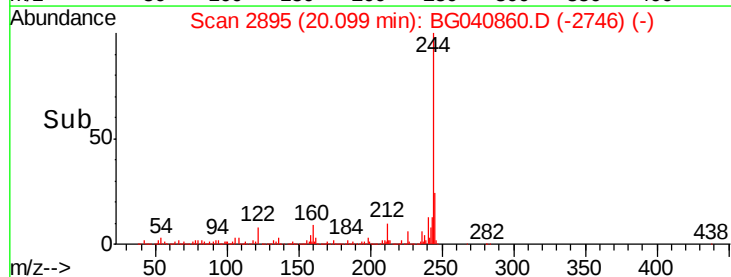
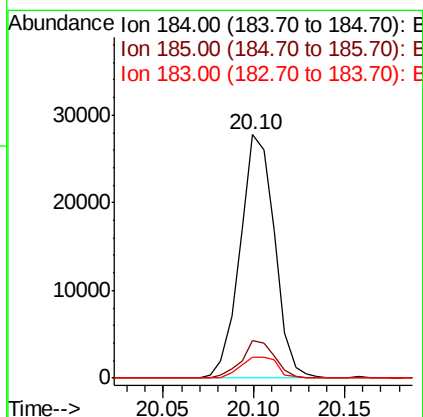
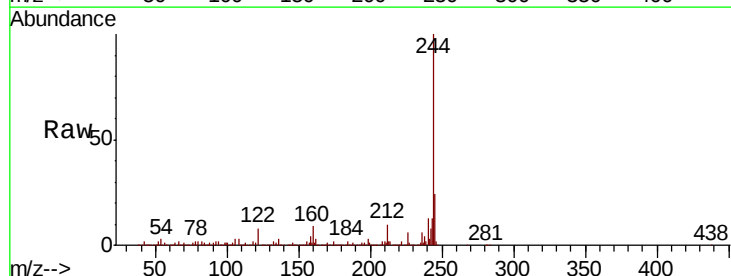
Instrument :  
BNA\_G  
ClientSampleId :  
SOIL-DRUM

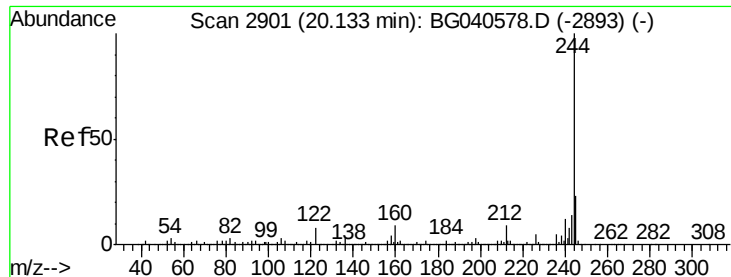
Tgt Ion: 240 Resp: 440169  
Ion Ratio Lower Upper  
240 100  
120 5.8 5.0 7.6  
236 26.7 20.3 30.5



#77  
Benzidine  
Concen: 3.040 ng  
RT: 20.10 min Scan# 2895  
Delta R.T. 0.34 min  
Lab File: BG040860.D  
Acq: 11 May 2019 00:29

Tgt Ion: 184 Resp: 36638  
Ion Ratio Lower Upper  
184 100  
185 15.4 11.8 17.8  
183 8.7 10.2 15.2#





#79

Terphenyl-d14

Concen: 98.151 ng

RT: 20.11 min Scan# 2896

Delta R.T. -0.03 min

Lab File: BG040860.D

Acq: 11 May 2019 00:29

Instrument :

BNA\_G

ClientSampleId :

SOIL-DRUM

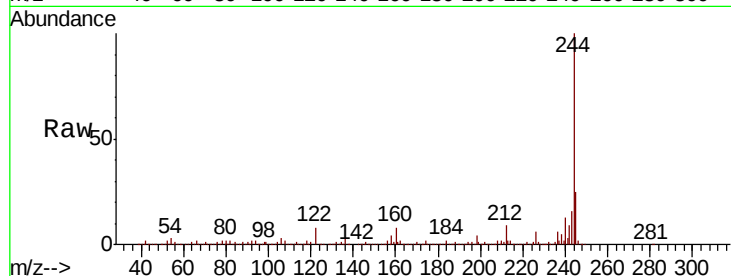
Tgt Ion:244 Resp: 1950109

Ion Ratio Lower Upper

244 100

212 9.5 7.2 10.8

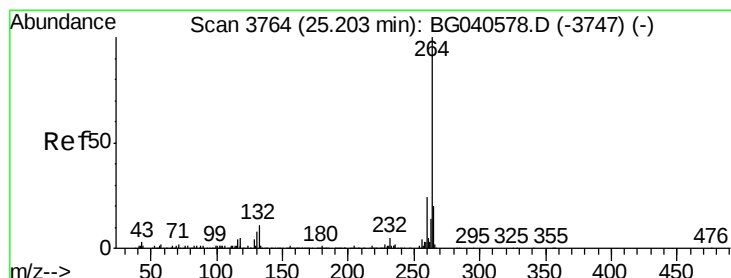
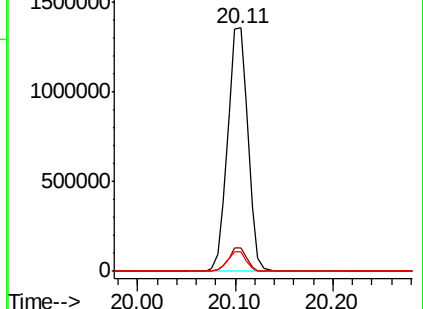
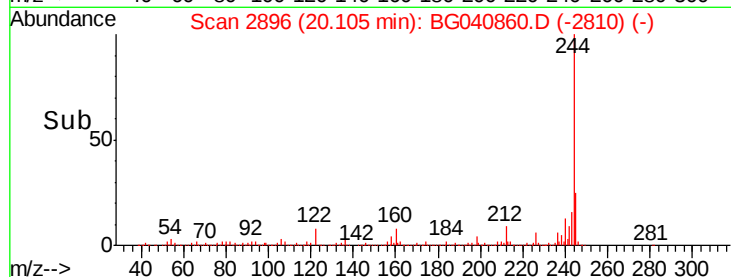
122 8.0 6.6 10.0



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: 25.13 min Scan# 3752

Delta R.T. -0.07 min

Lab File: BG040860.D

Acq: 11 May 2019 00:29

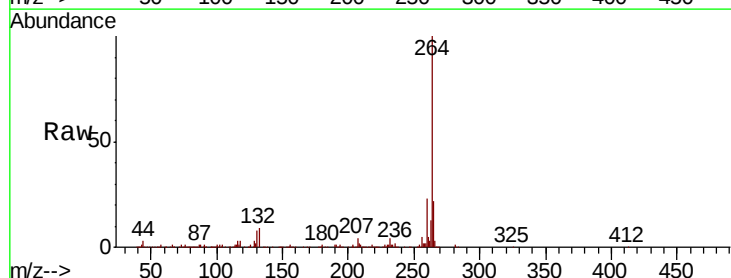
Tgt Ion:264 Resp: 442032

Ion Ratio Lower Upper

264 100

260 23.2 19.2 28.8

265 21.5 16.6 25.0



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

