

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG031519\  
 Data File : BG039941.D  
 Acq On : 15 Mar 2019 14:52  
 Operator : JU/SJ  
 Sample : K1914-01  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 CONCRETE-PILE

Quant Time: Mar 16 04:06:36 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG030419.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Mar 04 14:38:15 2019  
 Response via : Initial Calibration

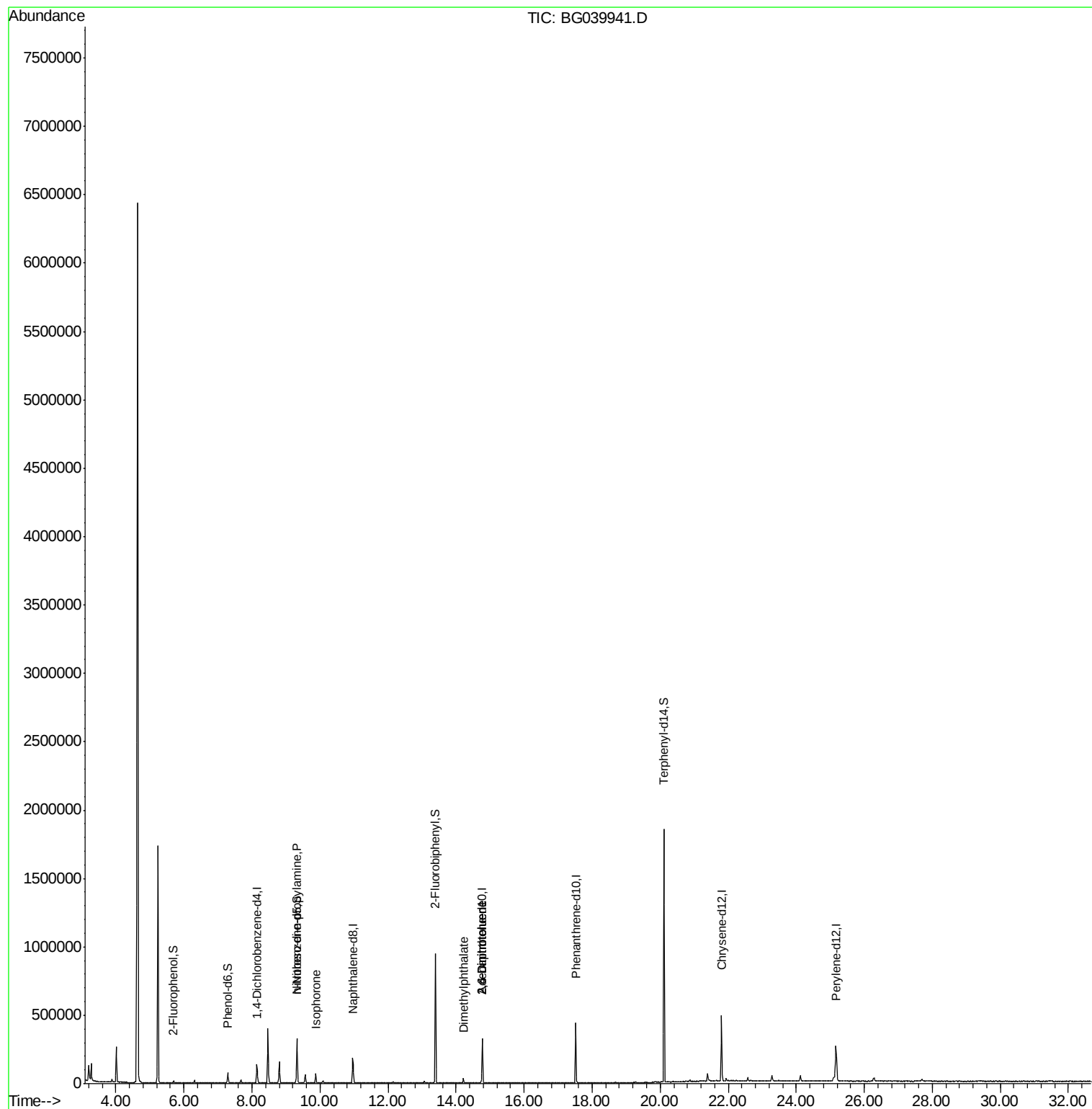
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|--------------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4      | 8.15  | 152  | 37978    | 20.00  | ng    | -0.02       |
| 21) Naphthalene-d8             | 10.97 | 136  | 158887   | 20.00  | ng    | -0.02       |
| 39) Acenaphthene-d10           | 14.77 | 164  | 108428   | 20.00  | ng    | -0.02       |
| 64) Phenanthrene-d10           | 17.52 | 188  | 277742   | 20.00  | ng    | -0.02       |
| 76) Chrysene-d12               | 21.80 | 240  | 293378   | 20.00  | ng    | -0.02       |
| 87) Perylene-d12               | 25.17 | 264  | 293197   | 20.00  | ng    | -0.03       |
| System Monitoring Compounds    |       |      |          |        |       |             |
| 5) 2-Fluorophenol              | 5.69  | 112  | 6716     | 3.02   | ng    | -0.02       |
| 7) Phenol-d6                   | 7.29  | 99   | 42074    | 12.68  | ng    | -0.02       |
| 23) Nitrobenzene-d5            | 9.32  | 82   | 193210   | 65.77  | ng    | -0.02       |
| 42) 2,4,6-Tribromophenol       | 16.26 | 330  | 635      | 0.50   | ng    | -0.01       |
| 45) 2-Fluorobiphenyl           | 13.39 | 172  | 507462   | 66.64  | ng    | -0.02       |
| 79) Terphenyl-d14              | 20.11 | 244  | 862203   | 64.71  | ng    | -0.01       |
| Target Compounds               |       |      |          |        |       |             |
| 19) n-Nitroso-di-n-propylamine | 9.33  | 70   | 25339    | 10.606 | ng    | Qvalue # 68 |
| 25) Isophorone                 | 9.87  | 82   | 48902    | 7.944  | ng    | 100         |
| 50) Dimethylphthalate          | 14.21 | 163  | 25578    | 2.821  | ng    | 97          |
| 51) 2,6-Dinitrotoluene         | 14.77 | 165  | 14148    | 7.361  | ng    | # 22        |
| 57) 2,4-Dinitrotoluene         | 14.77 | 165  | 14148    | 5.239  | ng    | # 17        |

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

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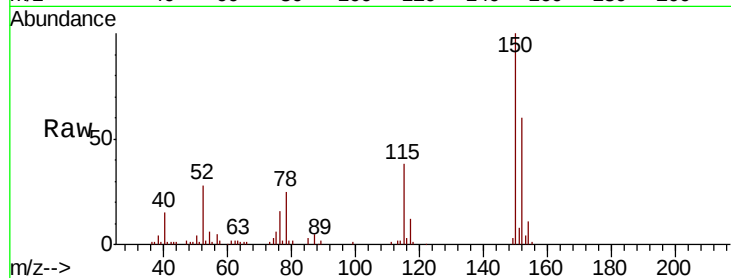


#1

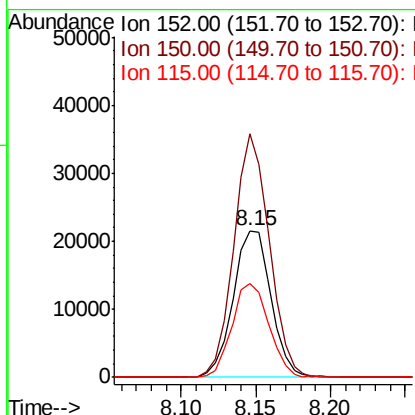
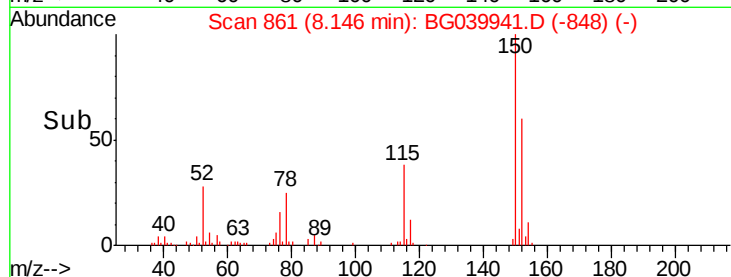
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.15 min Scan# 861  
Delta R.T. -0.02 min  
Lab File: BG039941.D  
Acq: 15 Mar 2019 14:52

Instrument :  
BNA\_G  
ClientSampleId :  
CONCRETE-PILE

Tgt Ion:152 Resp: 37978  
Ion Ratio Lower Upper  
152 100  
150 165.9 123.7 185.5  
115 63.7 45.9 68.9



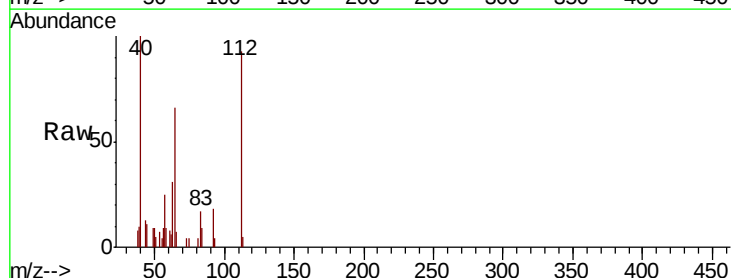
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



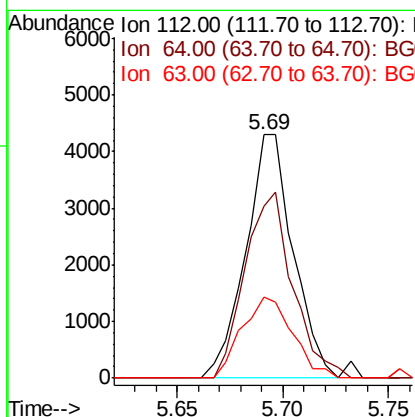
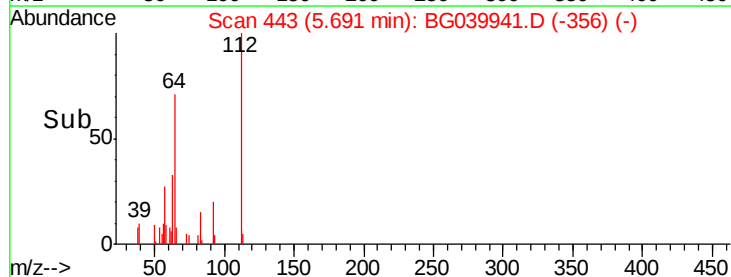
#5

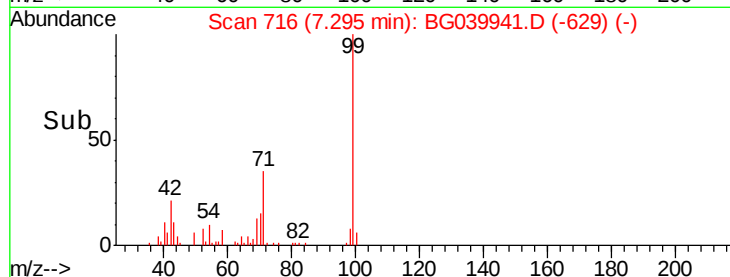
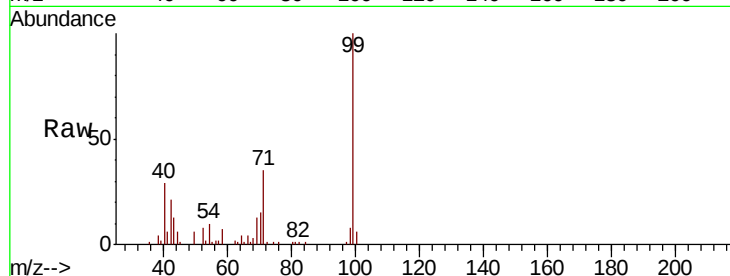
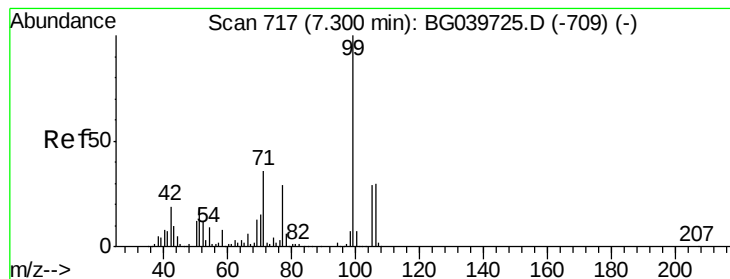
2-Fluorophenol  
Concen: 3.017 ng  
RT: 5.69 min Scan# 443  
Delta R.T. -0.02 min  
Lab File: BG039941.D  
Acq: 15 Mar 2019 14:52

Tgt Ion:112 Resp: 6716  
Ion Ratio Lower Upper  
112 100  
64 70.5 57.8 86.8  
63 33.3 29.8 44.6



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: 12.676 ng

RT: 7.29 min Scan# 716

Delta R.T. -0.02 min

Lab File: BG039941.D

Acq: 15 Mar 2019 14:52

Instrument :

BNA\_G

ClientSampleId :

CONCRETE-PILE

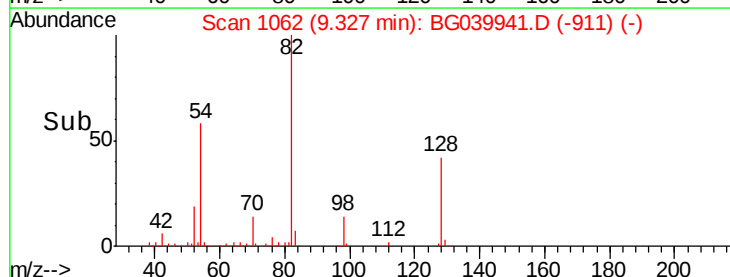
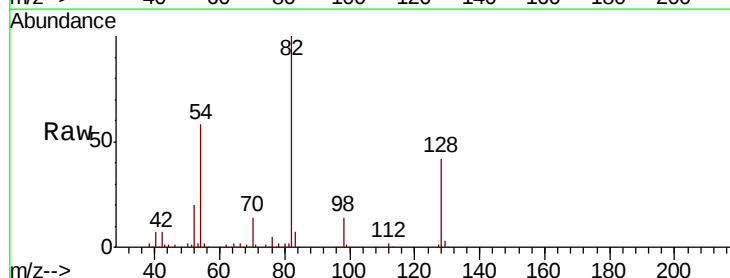
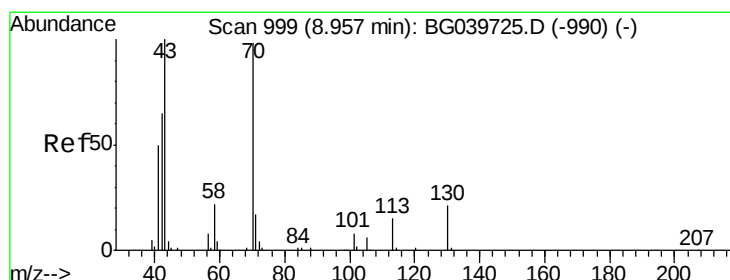
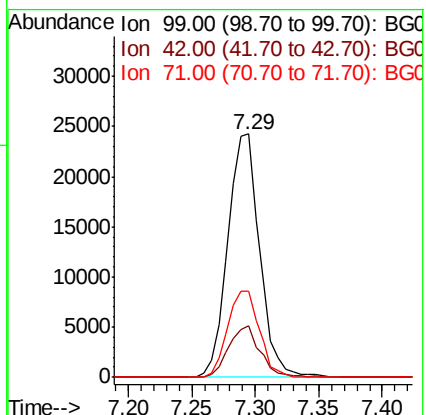
Tgt Ion: 99 Resp: 42074

Ion Ratio Lower Upper

99 100

42 21.2 18.2 27.2

71 35.2 28.0 42.0



#19

n-Nitroso-di-n-propylamine

Concen: 10.606 ng

RT: 9.33 min Scan# 1062

Delta R.T. 0.36 min

Lab File: BG039941.D

Acq: 15 Mar 2019 14:52

Tgt Ion: 70 Resp: 25339

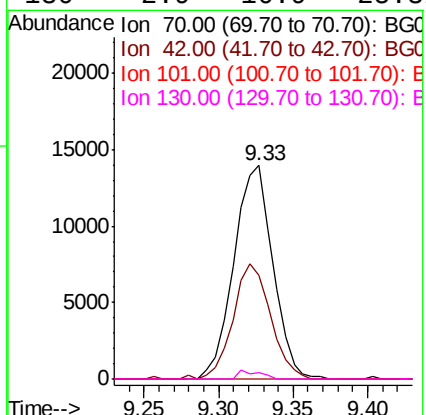
Ion Ratio Lower Upper

70 100

42 48.6 60.4 90.6#

101 0.0 7.5 11.3#

130 2.9 16.9 25.3#

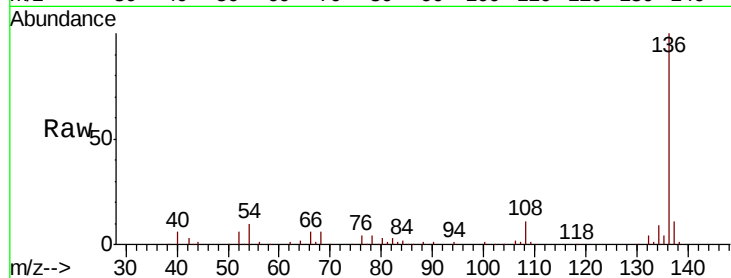




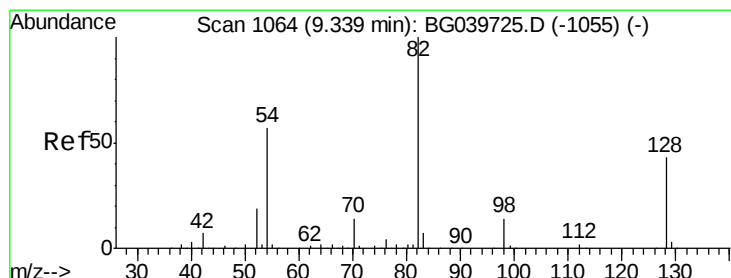
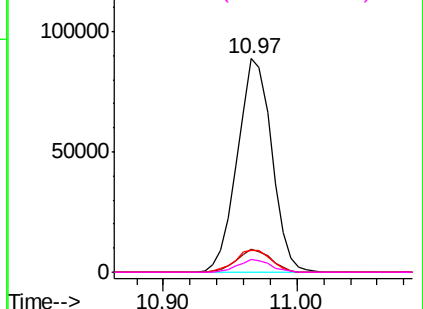
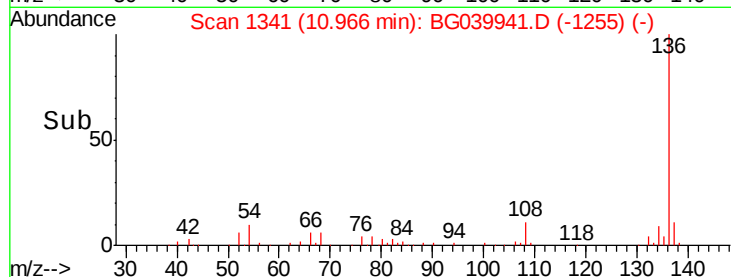
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.97 min Scan# 1341  
Delta R.T. -0.02 min  
Lab File: BG039941.D  
Acq: 15 Mar 2019 14:52

Instrument :  
BNA\_G  
ClientSampleId :  
CONCRETE-PILE

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 158887 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.8  | 9.1   | 13.7   |
| 54       | 10.2  | 9.4   | 14.2   |
| 68       | 5.9   | 4.2   | 6.4    |

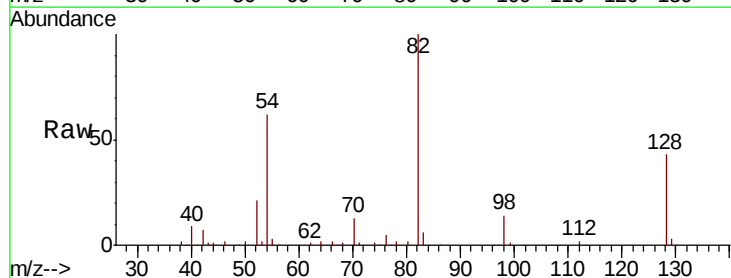


Abundance Ion 136.00 (135.70 to 136.70): BGC  
Ion 137.00 (136.70 to 137.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

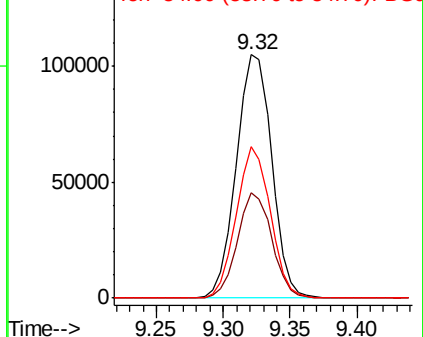
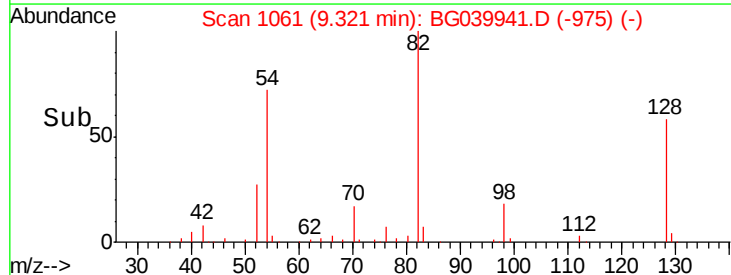


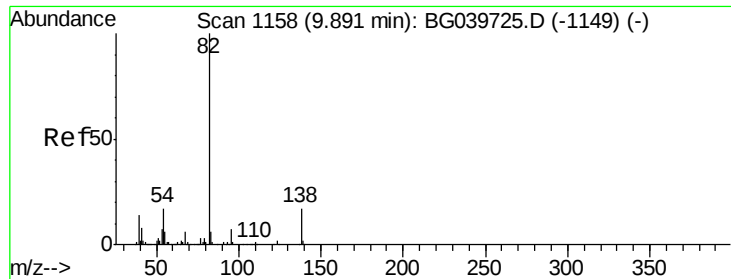
#23  
Nitrobenzene-d5  
Concen: 65.767 ng  
RT: 9.32 min Scan# 1061  
Delta R.T. -0.02 min  
Lab File: BG039941.D  
Acq: 15 Mar 2019 14:52

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 193210 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 43.2  | 31.3  | 46.9   |
| 54       | 62.2  | 50.9  | 76.3   |



Abundance Ion 82.00 (81.70 to 82.70): BGC  
Ion 128.00 (127.70 to 128.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC





#25

Isophorone

Concen: 7.944 ng

RT: 9.87 min Scan# 1155

Delta R.T. -0.02 min

Lab File: BG039941.D

Acq: 15 Mar 2019 14:52

Instrument :

BNA\_G

ClientSampleId :

CONCRETE-PILE

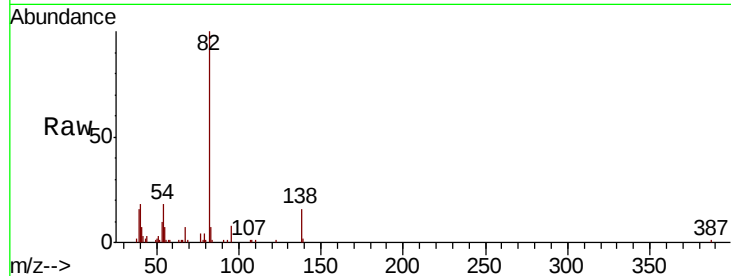
Tgt Ion: 82 Resp: 48902

Ion Ratio Lower Upper

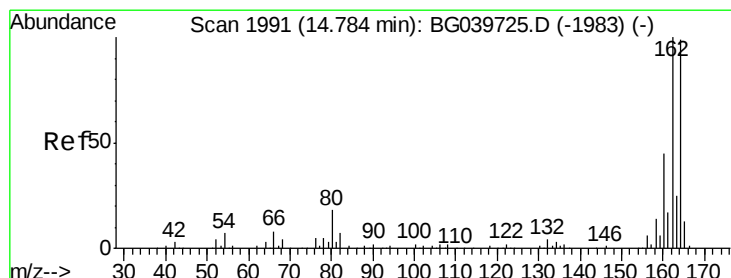
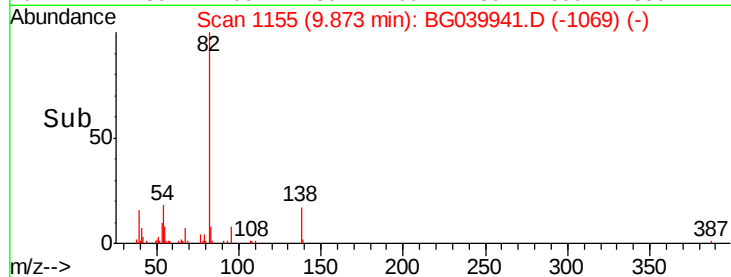
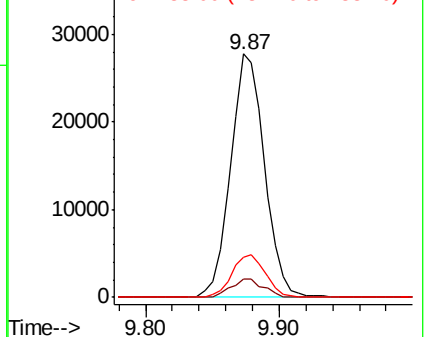
82 100

95 7.6 6.2 9.2

138 16.3 13.0 19.4



Abundance Ion 82.00 (81.70 to 82.70): BGC  
Ion 95.00 (94.70 to 95.70): BGC  
Ion 138.00 (137.70 to 138.70): BGC



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.77 min Scan# 1989

Delta R.T. -0.02 min

Lab File: BG039941.D

Acq: 15 Mar 2019 14:52

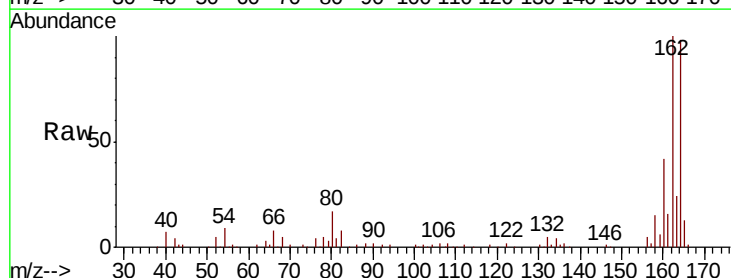
Tgt Ion: 164 Resp: 108428

Ion Ratio Lower Upper

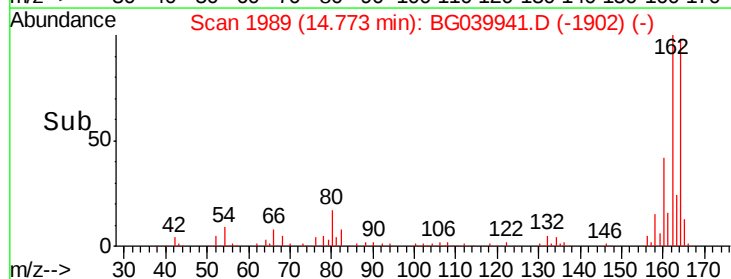
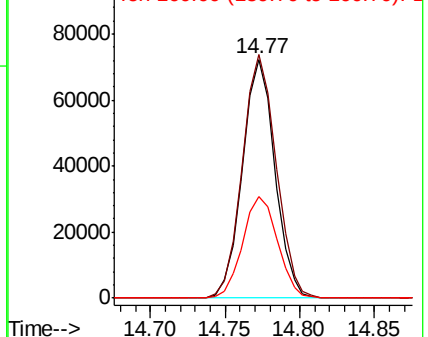
164 100

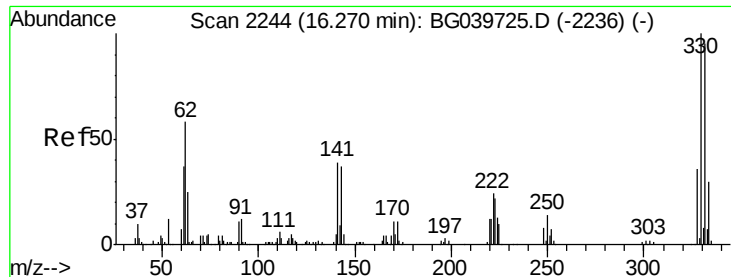
162 101.8 81.6 122.4

160 42.7 34.2 51.2



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

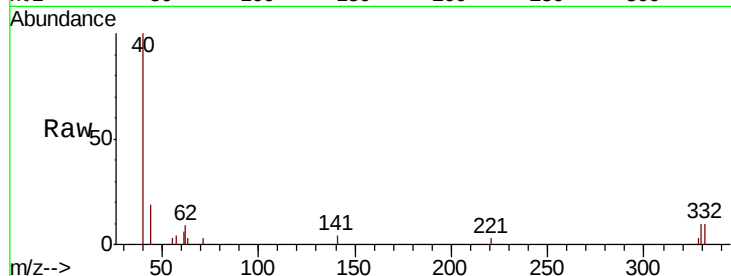




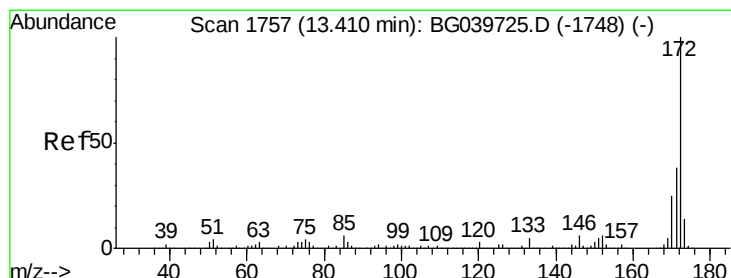
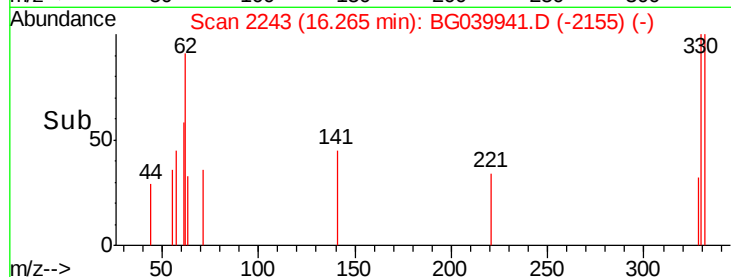
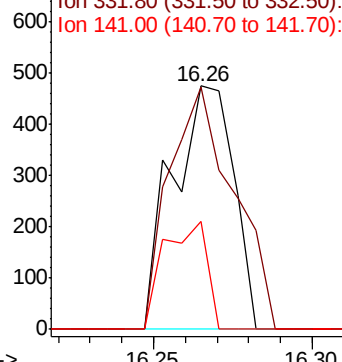
#42  
 2,4,6-Tribromophenol  
 Concen: 0.502 ng  
 RT: 16.26 min Scan# 2243  
 Delta R.T. -0.01 min  
 Lab File: BG039941.D  
 Acq: 15 Mar 2019 14:52

Instrument :  
 BNA\_G  
 ClientSampleId :  
 CONCRETE-PILE

Tgt Ion: 330 Resp: 635  
 Ion Ratio Lower Upper  
 330 100  
 332 104.6 75.7 113.5  
 141 30.9 35.6 53.4#

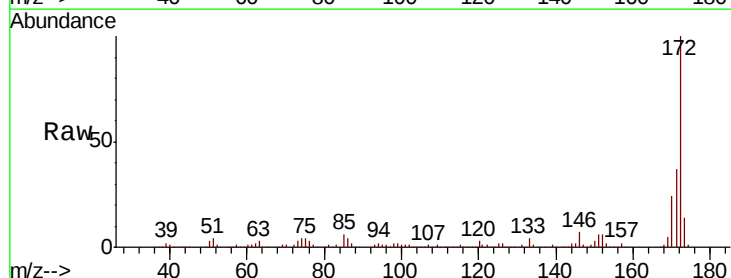


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

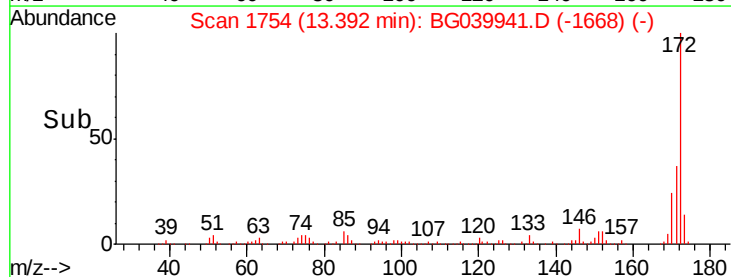
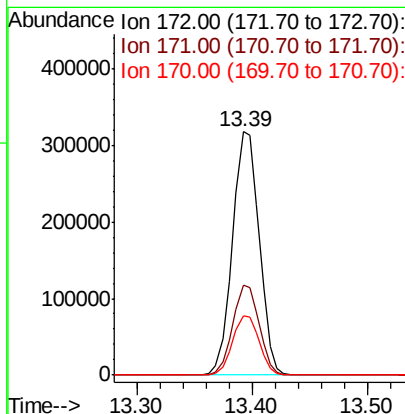


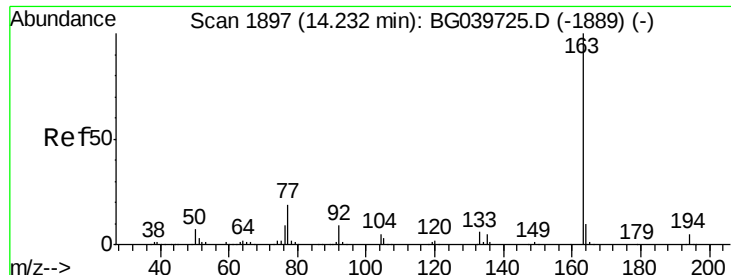
#45  
 2-Fluorobiphenyl  
 Concen: 66.638 ng  
 RT: 13.39 min Scan# 1754  
 Delta R.T. -0.02 min  
 Lab File: BG039941.D  
 Acq: 15 Mar 2019 14:52

Tgt Ion: 172 Resp: 507462  
 Ion Ratio Lower Upper  
 172 100  
 171 37.1 30.8 46.2  
 170 24.2 20.2 30.4



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

Dimethylphthalate

Concen: 2.821 ng

RT: 14.21 min Scan# 1894

Delta R.T. -0.02 min

Lab File: BG039941.D

Acq: 15 Mar 2019 14:52

Instrument :

BNA\_G

ClientSampleId :

CONCRETE-PILE

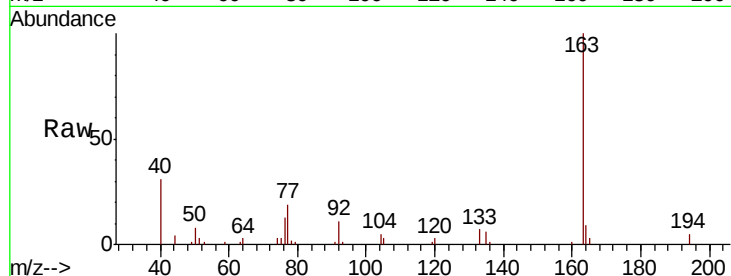
Tgt Ion:163 Resp: 25578

Ion Ratio Lower Upper

163 100

194 4.9 3.6 5.4

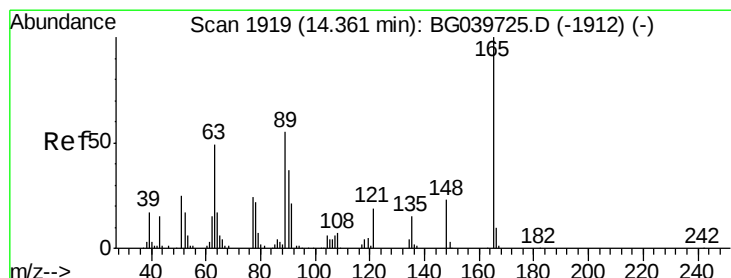
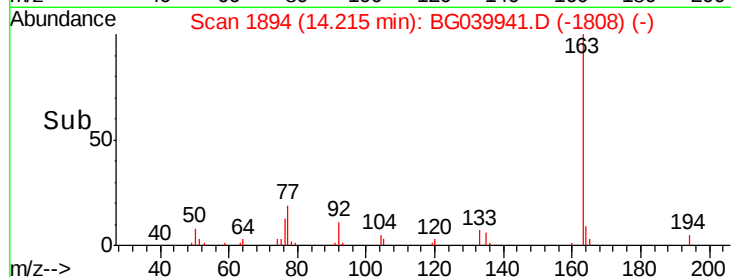
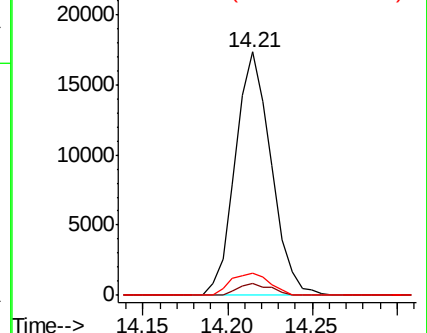
164 9.2 8.4 12.6



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#51

2,6-Dinitrotoluene

Concen: 7.361 ng

RT: 14.77 min Scan# 1989

Delta R.T. 0.40 min

Lab File: BG039941.D

Acq: 15 Mar 2019 14:52

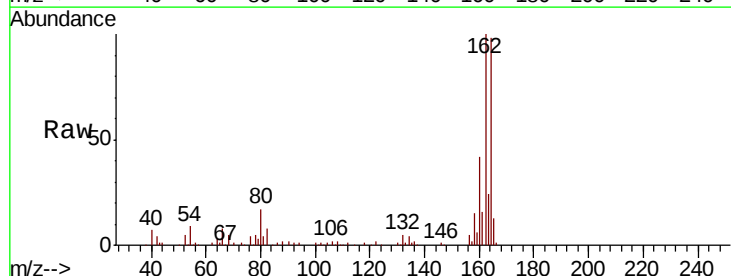
Tgt Ion:165 Resp: 14148

Ion Ratio Lower Upper

165 100

63 0.0 47.0 70.6#

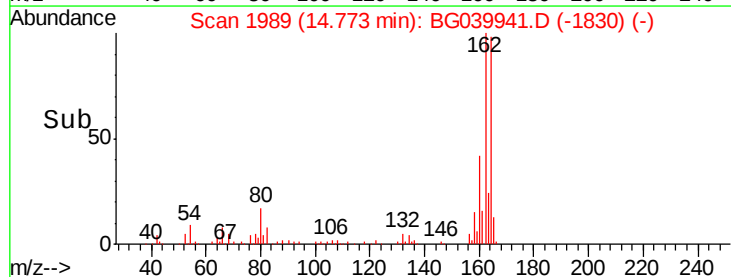
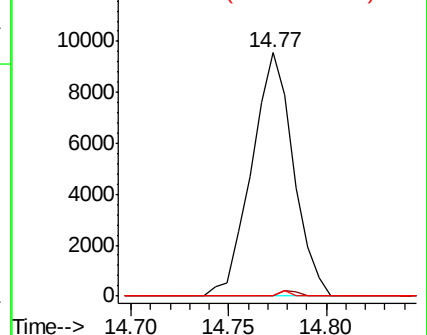
89 0.0 45.8 68.8#

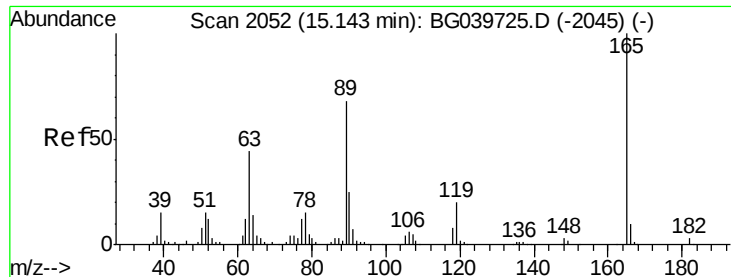


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

Ion 89.00 (88.70 to 89.70): BGC

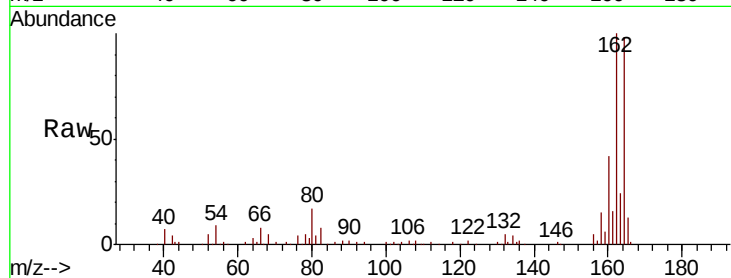




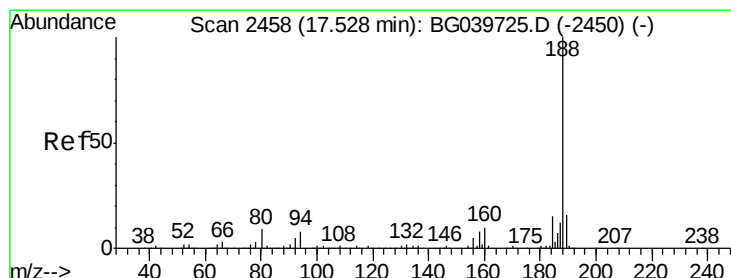
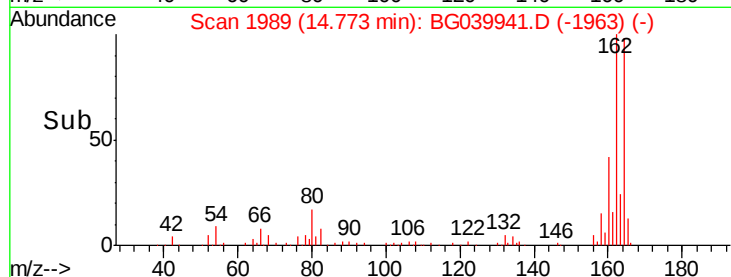
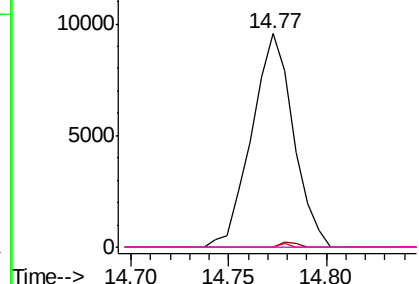
#57  
 2,4-Dinitrotoluene  
 Concen: 5.239 ng  
 RT: 14.77 min Scan# 1989  
 Delta R.T. -0.38 min  
 Lab File: BG039941.D  
 Acq: 15 Mar 2019 14:52

Instrument :  
 BNA\_G  
 ClientSampleId :  
 CONCRETE-PILE

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 165   | Resp: | 14148 |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 0.0   | 41.0  | 61.6# |
| 89       | 0.0   | 64.6  | 96.8# |
| 182      | 0.0   | 2.0   | 3.0#  |

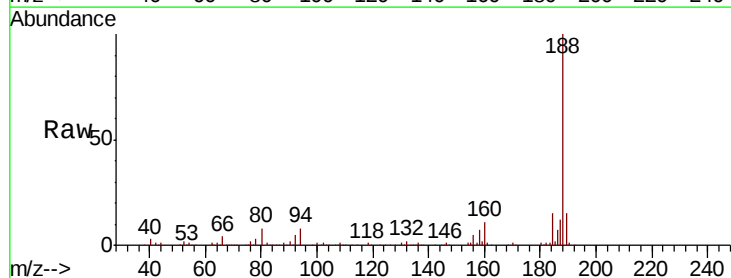


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BGC  
 Ion 89.00 (88.70 to 89.70): BGC  
 Ion 182.00 (181.70 to 182.70): E

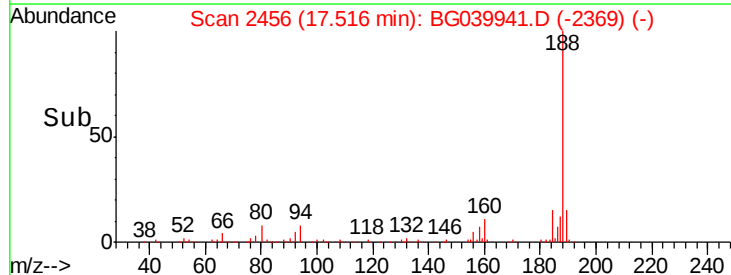
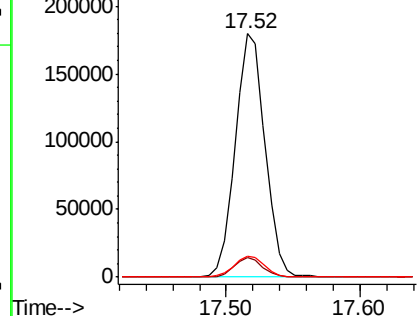


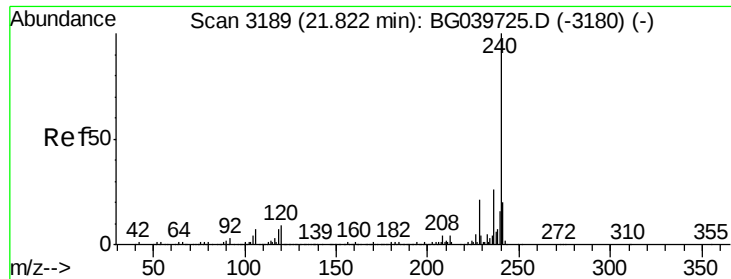
#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.52 min Scan# 2456  
 Delta R.T. -0.02 min  
 Lab File: BG039941.D  
 Acq: 15 Mar 2019 14:52

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 188   | Resp: | 277742 |
| Ion      | Ratio | Lower | Upper  |
| 188      | 100   |       |        |
| 94       | 7.8   | 6.9   | 10.3   |
| 80       | 8.3   | 8.1   | 12.1   |



Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BGC  
 Ion 80.00 (79.70 to 80.70): BGC

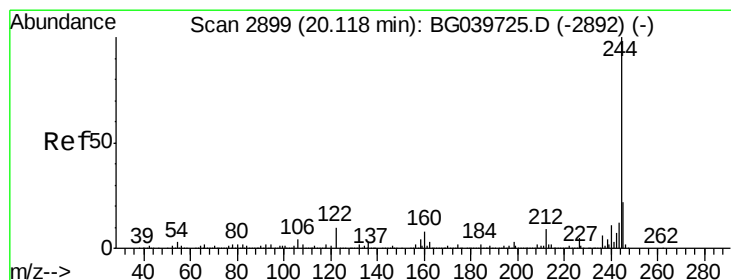
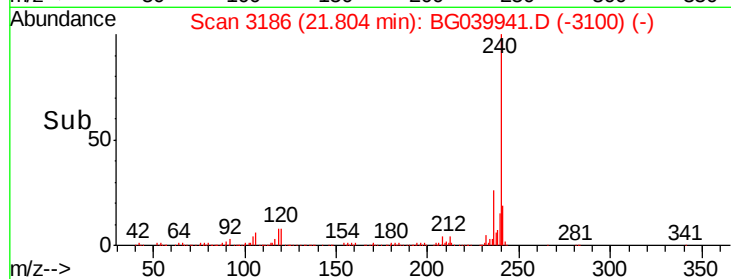
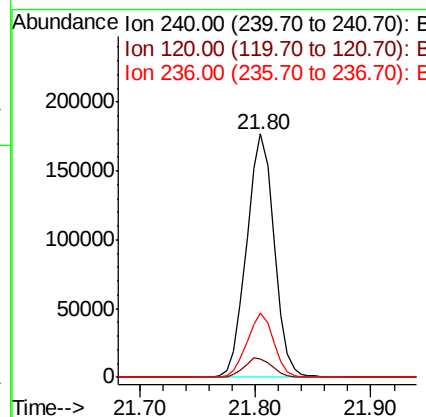
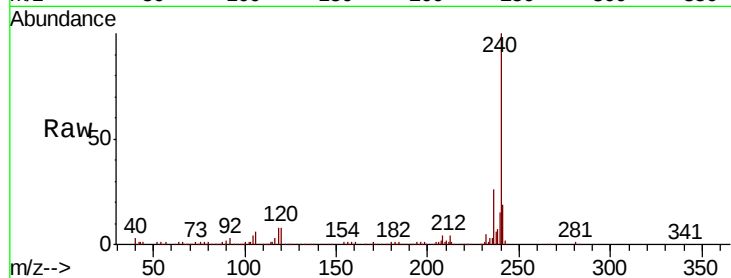




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.80 min Scan# 3186  
Delta R.T. -0.02 min  
Lab File: BG039941.D  
Acq: 15 Mar 2019 14:52

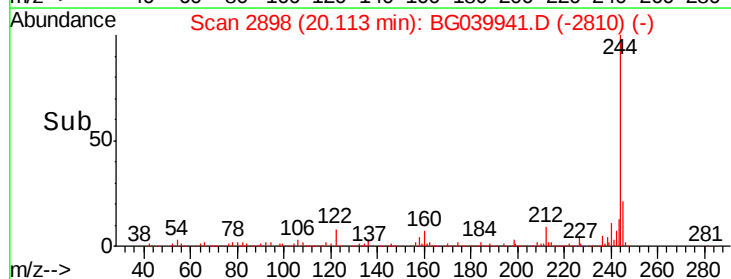
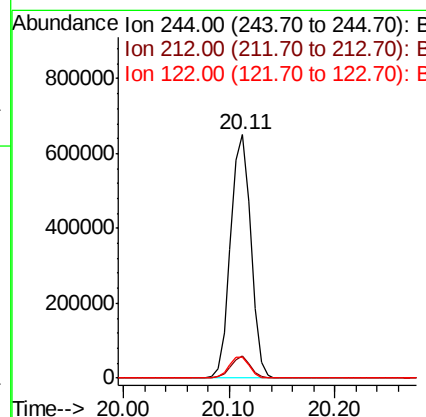
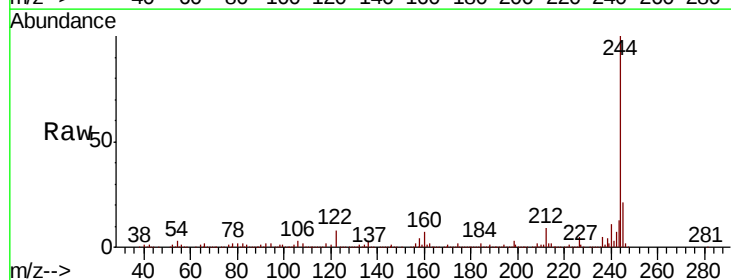
Instrument :  
BNA\_G  
ClientSampleId :  
CONCRETE-PILE

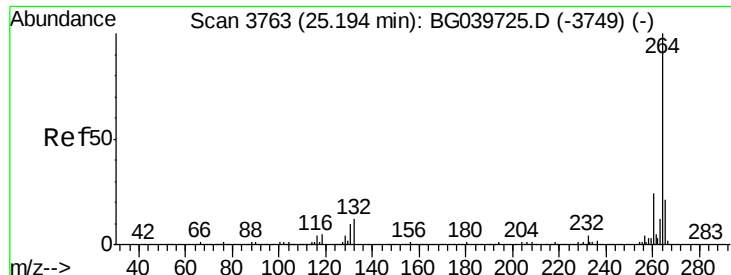
Tgt Ion:240 Resp: 293378  
Ion Ratio Lower Upper  
240 100  
120 7.8 7.0 10.6  
236 26.2 21.0 31.4



#79  
Terphenyl-d14  
Concen: 64.708 ng  
RT: 20.11 min Scan# 2898  
Delta R.T. -0.01 min  
Lab File: BG039941.D  
Acq: 15 Mar 2019 14:52

Tgt Ion:244 Resp: 862203  
Ion Ratio Lower Upper  
244 100  
212 8.9 7.3 10.9  
122 8.5 8.4 12.6





#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 25.17 min Scan# 3759  
Delta R.T. -0.03 min  
Lab File: BG039941.D  
Acq: 15 Mar 2019 14:52

Instrument :  
BNA\_G  
ClientSampleId :  
CONCRETE-PILE

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.5  | 18.2  | 27.4  |
| 265     | 21.7  | 18.5  | 27.7  |

