

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG080918\  
 Data File : BG036264.D  
 Acq On : 10 Aug 2018 11:54  
 Operator : JU/SJ  
 Sample : J4355-01  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 WC-SOIL

Quant Time: Aug 10 13:44:58 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG071218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 31 12:30:06 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.01  | 152  | 26772    | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8        | 10.81 | 136  | 90781    | 20.00 | ng    | -0.02    |
| 38) Acenaphthene-d10      | 14.63 | 164  | 68527    | 20.00 | ng    | -0.02    |
| 63) Phenanthrene-d10      | 17.38 | 188  | 195988   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12          | 21.64 | 240  | 211975   | 20.00 | ng    | -0.02    |
| 86) Perylene-d12          | 24.82 | 264  | 201172   | 20.00 | ng    | -0.04    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.59  | 112  | 149214   | 92.53  | ng    | -0.01    |
| 7) Phenol-d6                | 7.18  | 99   | 214685   | 89.23  | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 9.17  | 82   | 138661   | 63.81  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 16.12 | 330  | 101007   | 111.83 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl        | 13.25 | 172  | 264119   | 51.64  | ng    | -0.03    |
| 78) Terphenyl-d14           | 19.98 | 244  | 575518   | 59.85  | ng    | -0.02    |

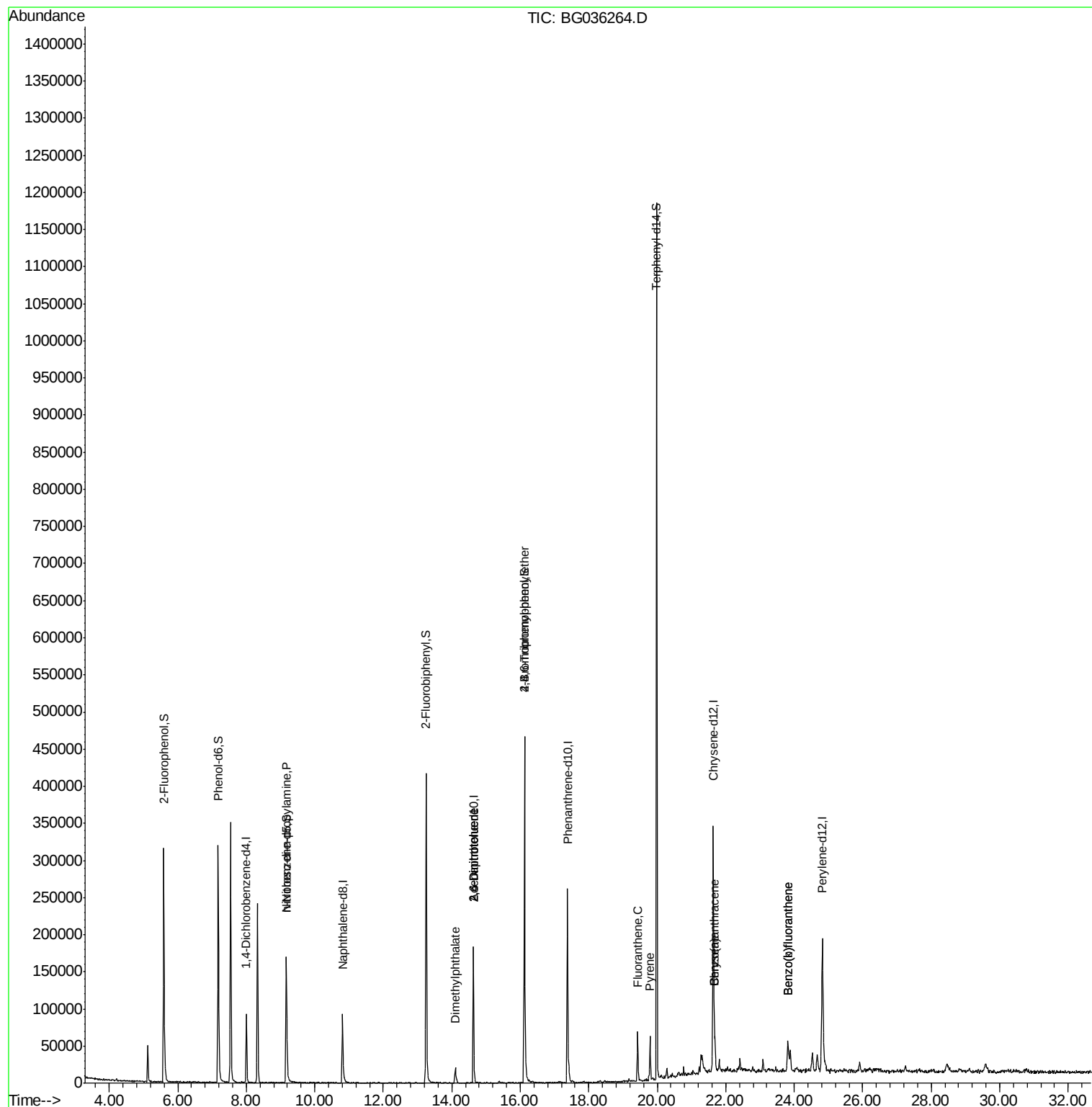
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 9.17  | 70   | 18604    | 9.183 | ng    | # 83   |
| 49) Dimethylphthalate          | 14.10 | 163  | 25089    | 4.179 | ng    | # 96   |
| 50) 2,6-Dinitrotoluene         | 14.63 | 165  | 10228    | 8.366 | ng    | # 18   |
| 56) 2,4-Dinitrotoluene         | 14.63 | 165  | 10228    | 5.831 | ng    | # 16   |
| 66) 4-Bromophenyl-phenylether  | 16.12 | 248  | 8520     | 3.747 | ng    | # 1    |
| 74) Fluoranthene               | 19.43 | 202  | 49872    | 3.786 | ng    | 93     |
| 77) Pyrene                     | 19.79 | 202  | 43427    | 3.240 | ng    | 98     |
| 80) Benzo(a)anthracene         | 21.68 | 228  | 39180    | 2.966 | ng    | 93     |
| 82) Chrysene                   | 21.68 | 228  | 39180    | 3.201 | ng    | 94     |
| 87) Benzo(b)fluoranthene       | 23.81 | 252  | 51390    | 4.203 | ng    | 96     |
| 88) Benzo(k)fluoranthene       | 23.81 | 252  | 51390    | 4.299 | ng    | 95     |

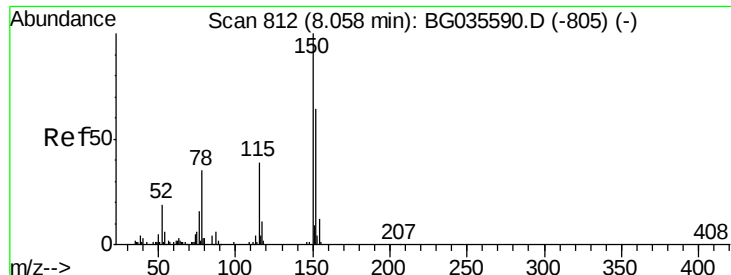
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jul 31 12:30:06 2018  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 8.01 min Scan# 803

Delta R.T. -0.02 min

Lab File: BG036264.D

Acq: 10 Aug 2018 11:54

Instrument :

BNA\_G

ClientSampled :

WC-SOIL

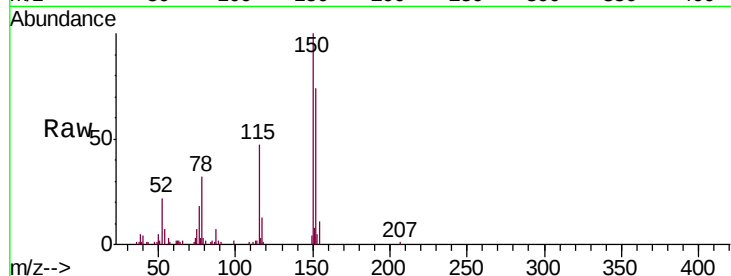
Tgt Ion:152 Resp: 26772

Ion Ratio Lower Upper

152 100

150 135.0 126.6 189.8

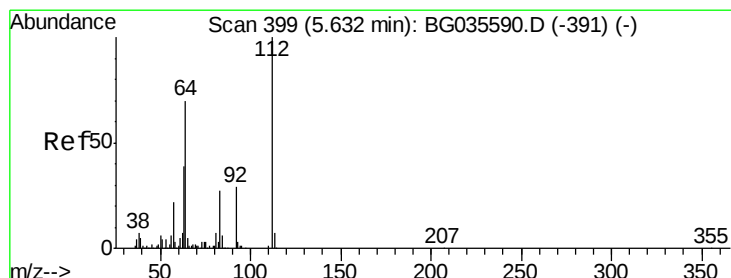
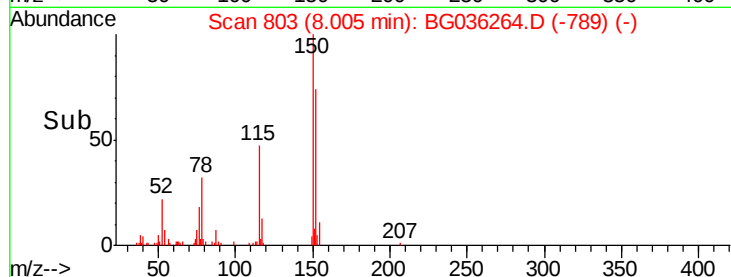
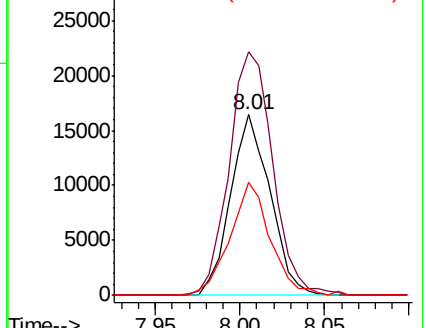
115 62.8 53.0 79.4



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: 92.533 ng

RT: 5.59 min Scan# 392

Delta R.T. -0.01 min

Lab File: BG036264.D

Acq: 10 Aug 2018 11:54

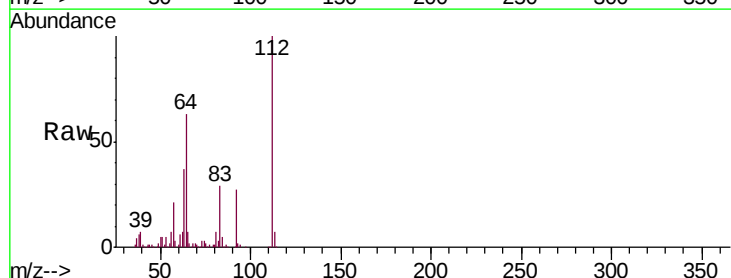
Tgt Ion:112 Resp: 149214

Ion Ratio Lower Upper

112 100

64 62.7 56.3 84.5

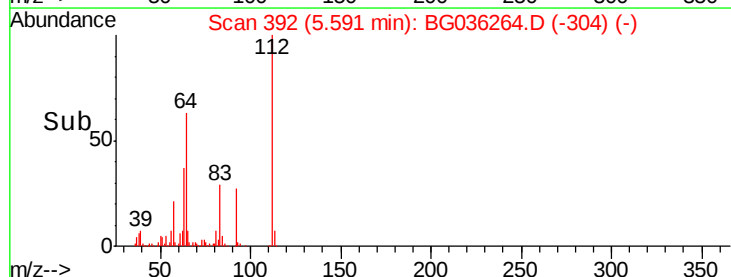
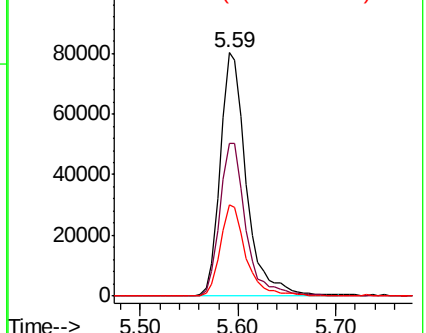
63 37.5 30.1 45.1

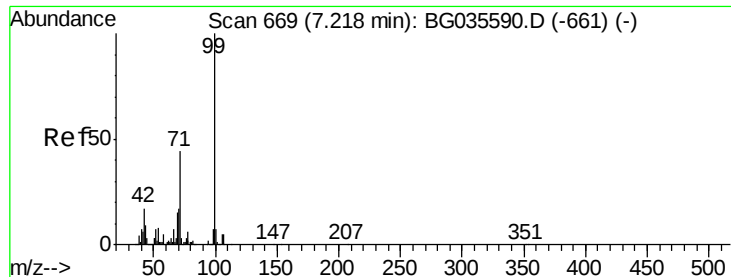


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BG

Ion 63.00 (62.70 to 63.70): BG





#7

Phenol-d6

Concen: 89.233 ng

RT: 7.18 min Scan# 663

Delta R.T. -0.01 min

Lab File: BG036264.D

Acq: 10 Aug 2018 11:54

Instrument :

BNA\_G

ClientSampled :

WC-SOIL

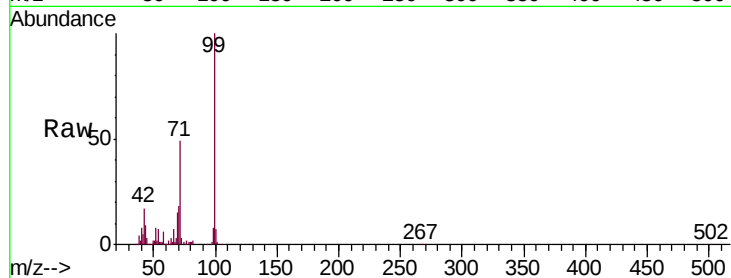
Tgt Ion: 99 Resp: 214685

Ion Ratio Lower Upper

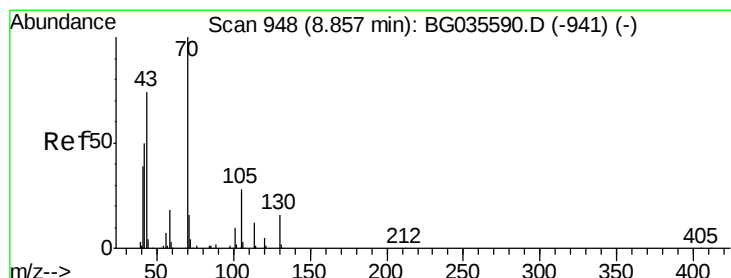
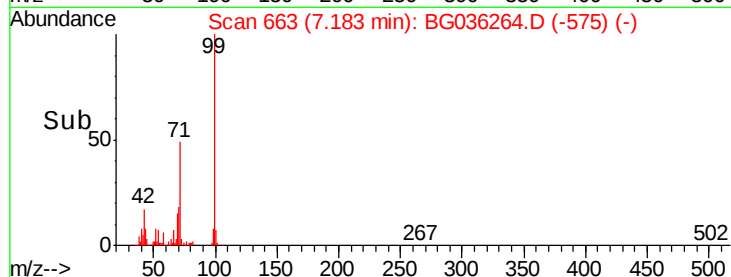
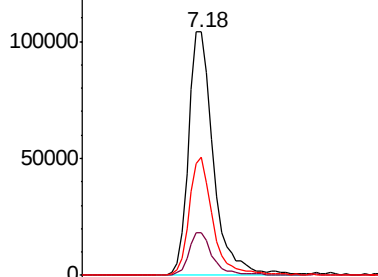
99 100

42 17.5 14.1 21.1

71 48.5 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



#19

n-Nitroso-di-n-propylamine

Concen: 9.183 ng

RT: 9.17 min Scan# 1001

Delta R.T. 0.34 min

Lab File: BG036264.D

Acq: 10 Aug 2018 11:54

Tgt Ion: 70 Resp: 18604

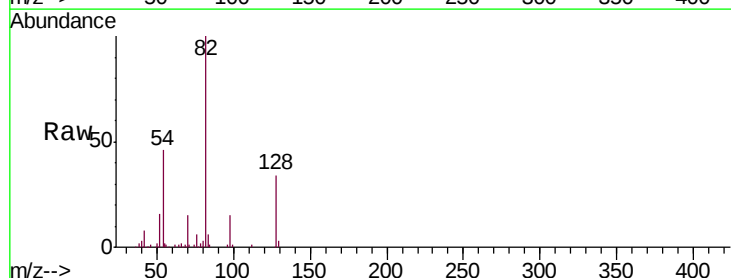
Ion Ratio Lower Upper

70 100

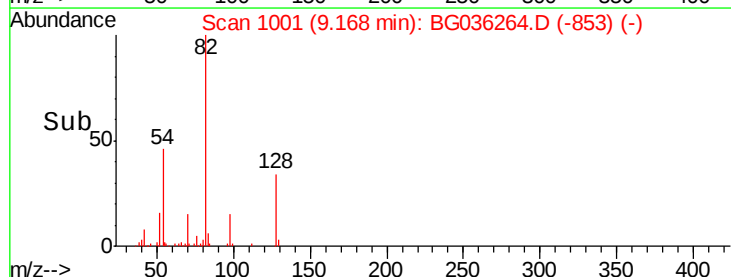
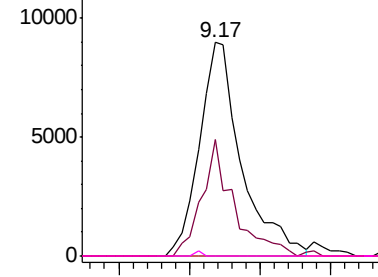
42 54.6 49.1 73.7

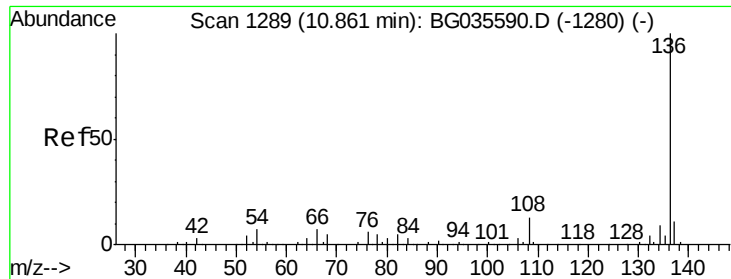
101 0.0 8.5 12.7#

130 0.0 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

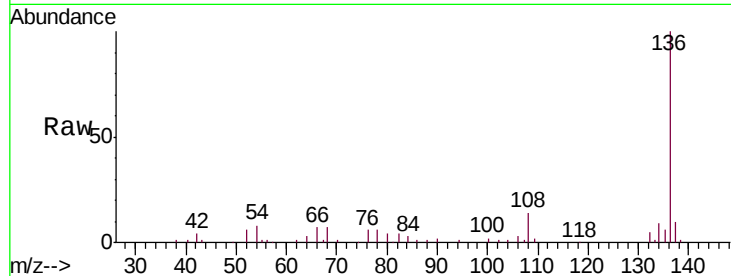




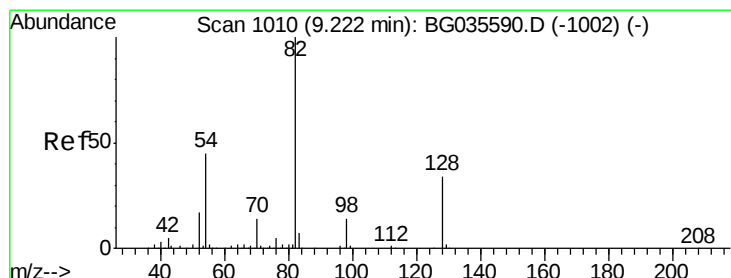
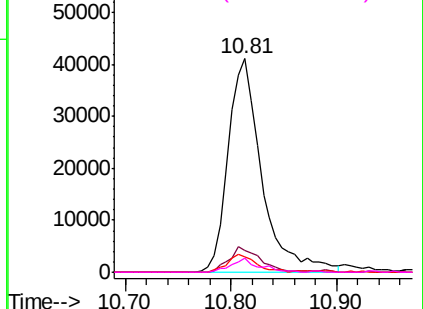
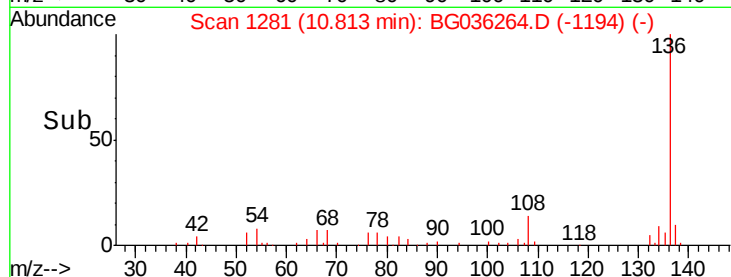
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.81 min Scan# 1281  
Delta R.T. -0.02 min  
Lab File: BG036264.D  
Acq: 10 Aug 2018 11:54

Instrument :  
BNA\_G  
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WC-SOIL

Tgt Ion: 136 Resp: 90781  
Ion Ratio Lower Upper  
136 100  
137 10.4 9.2 13.8  
54 7.5 10.3 15.5#  
68 6.9 4.5 6.7#

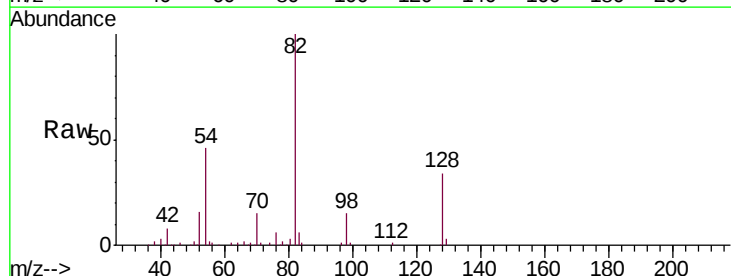


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BG  
Ion 68.00 (67.70 to 68.70): BG

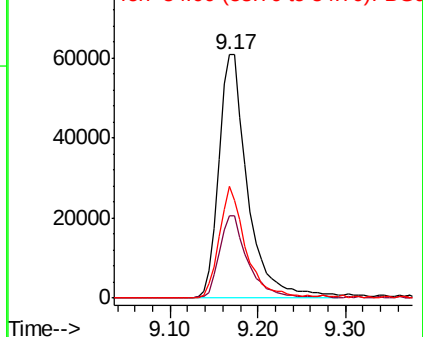
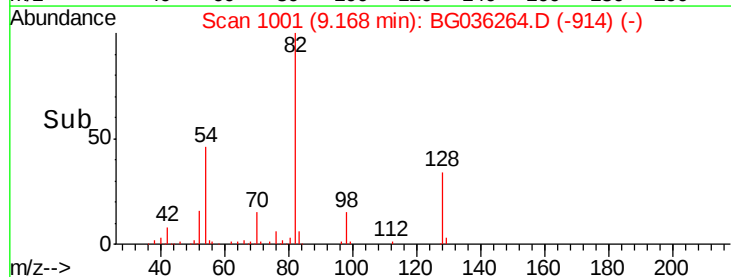


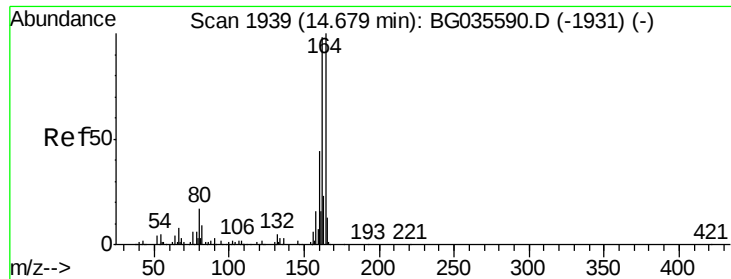
#23  
Nitrobenzene-d5  
Concen: 63.808 ng  
RT: 9.17 min Scan# 1001  
Delta R.T. -0.02 min  
Lab File: BG036264.D  
Acq: 10 Aug 2018 11:54

Tgt Ion: 82 Resp: 138661  
Ion Ratio Lower Upper  
82 100  
128 33.8 29.7 44.5  
54 45.7 43.1 64.7



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

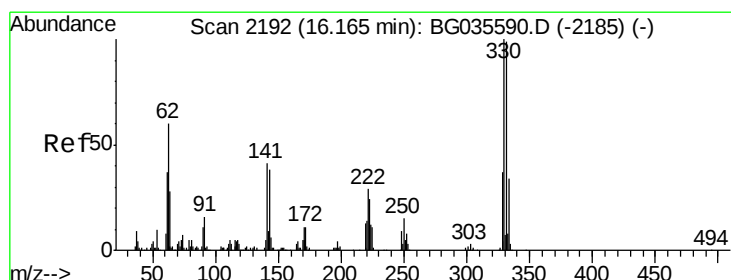
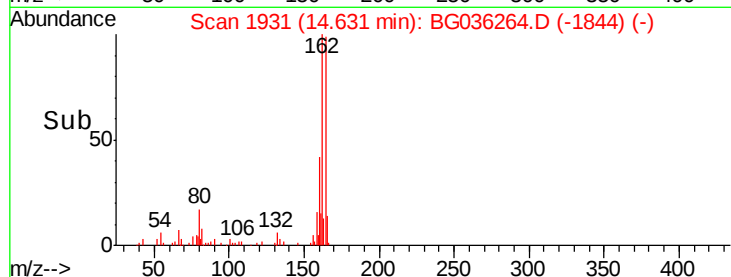
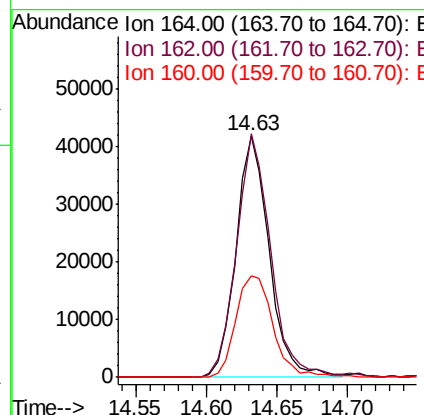
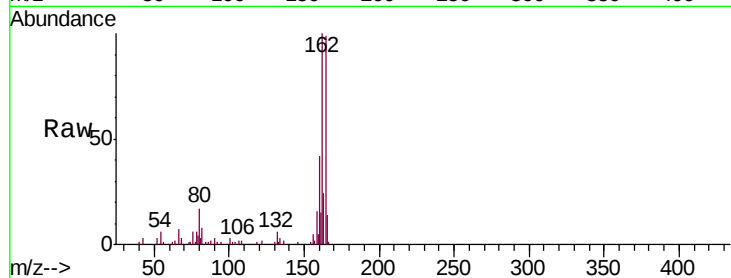




#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.63 min Scan# 1931  
Delta R.T. -0.02 min  
Lab File: BG036264.D  
Acq: 10 Aug 2018 11:54

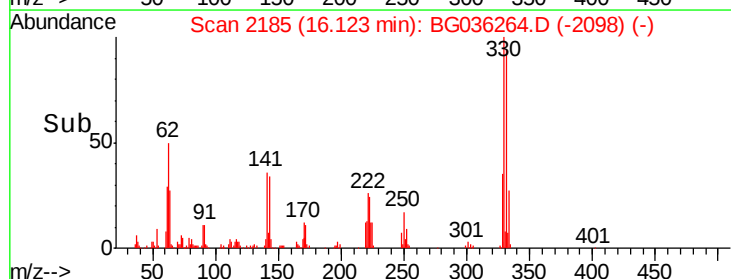
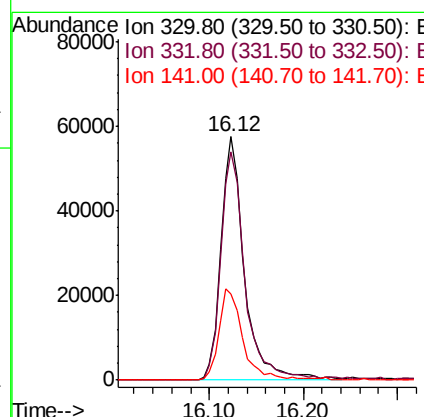
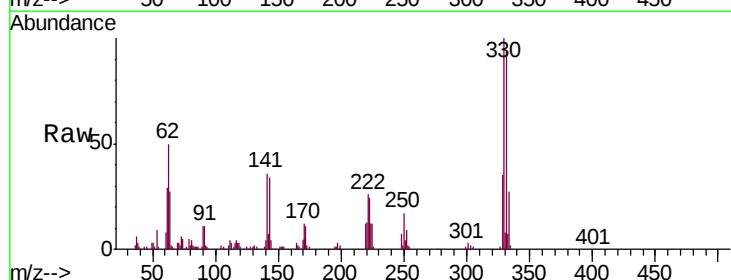
Instrument :  
BNA\_G  
ClientSampled :  
WC-SOIL

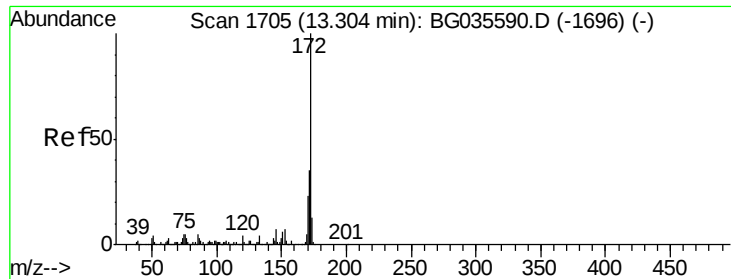
Tgt Ion:164 Resp: 68527  
Ion Ratio Lower Upper  
164 100  
162 100.7 78.8 118.2  
160 42.1 35.4 53.0



#41  
2,4,6-Tribromophenol  
Concen: 111.829 ng  
RT: 16.12 min Scan# 2185  
Delta R.T. -0.02 min  
Lab File: BG036264.D  
Acq: 10 Aug 2018 11:54

Tgt Ion:330 Resp: 101007  
Ion Ratio Lower Upper  
330 100  
332 96.4 77.0 115.6  
141 38.0 25.2 37.8#

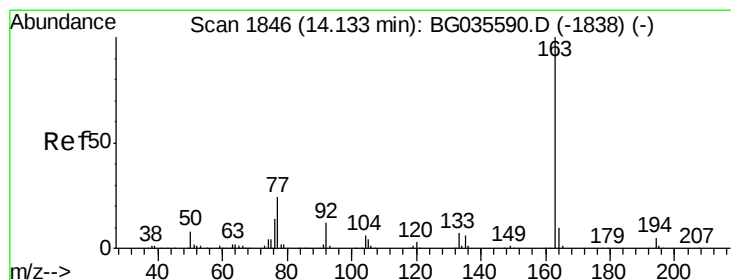
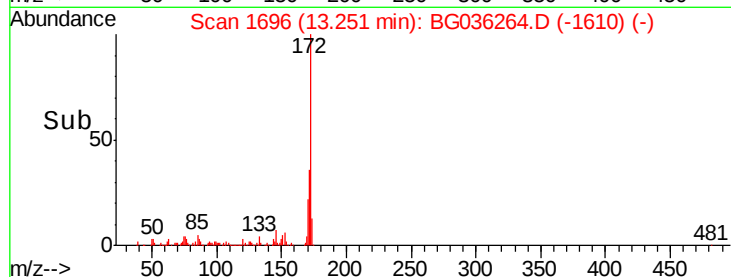
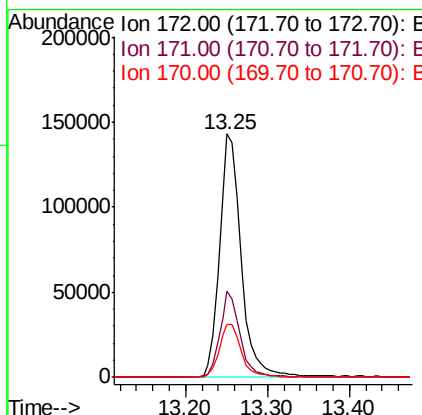
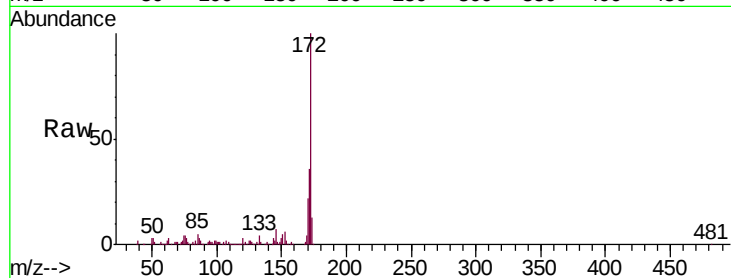




#44  
2-Fluorobiphenyl  
Concen: 51.637 ng  
RT: 13.25 min Scan# 1696  
Delta R.T. -0.03 min  
Lab File: BG036264.D  
Acq: 10 Aug 2018 11:54

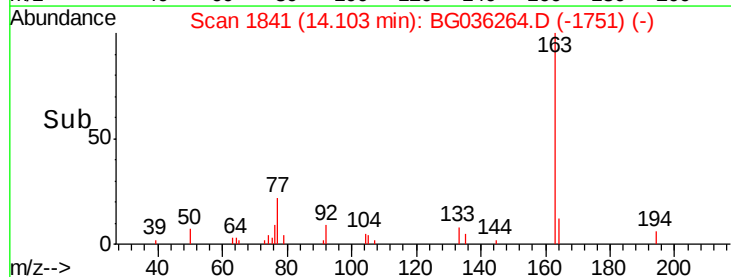
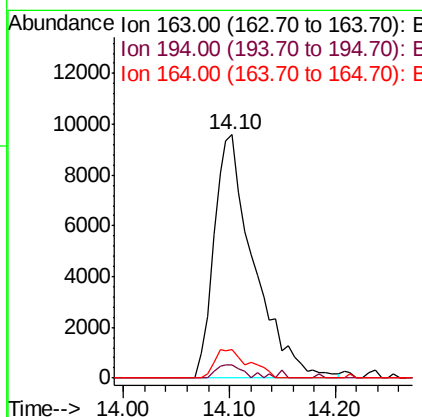
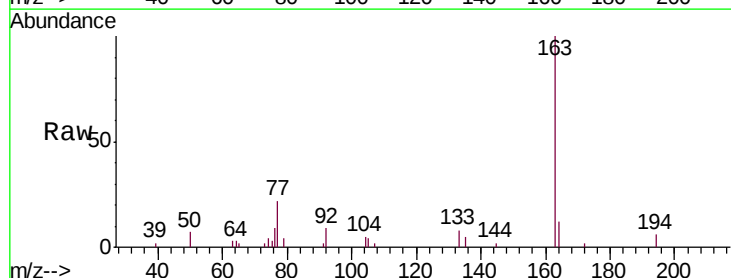
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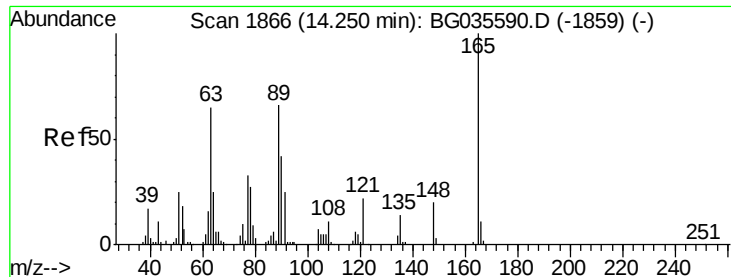
Tgt Ion:172 Resp: 264119  
Ion Ratio Lower Upper  
172 100  
171 35.7 30.0 45.0  
170 21.9 19.5 29.3



#49  
Dimethylphthalate  
Concen: 4.179 ng  
RT: 14.10 min Scan# 1841  
Delta R.T. -0.00 min  
Lab File: BG036264.D  
Acq: 10 Aug 2018 11:54

Tgt Ion:163 Resp: 25089  
Ion Ratio Lower Upper  
163 100  
194 5.6 3.4 5.2#  
164 11.7 8.2 12.4

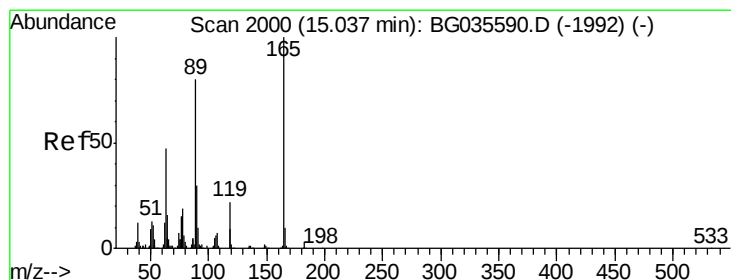
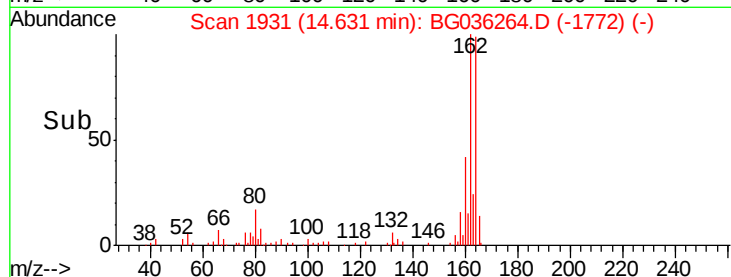
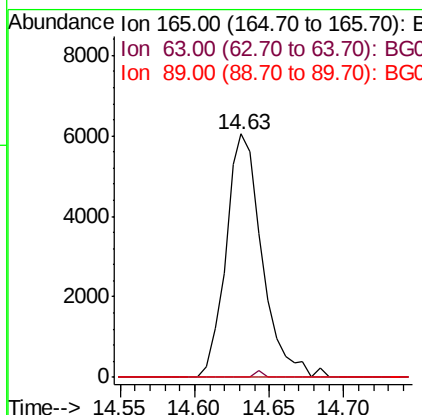
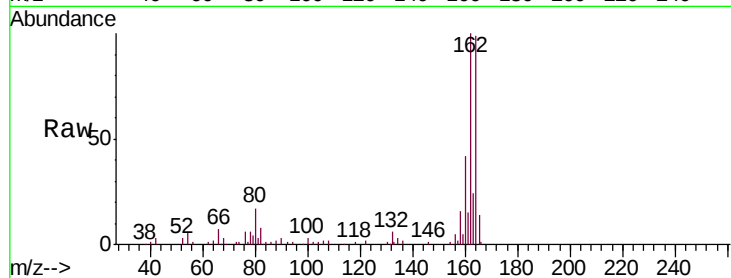




#50  
 2,6-Dinitrotoluene  
 Concen: 8.366 ng  
 RT: 14.63 min Scan# 1931  
 Delta R.T. 0.40 min  
 Lab File: BG036264.D  
 Acq: 10 Aug 2018 11:54

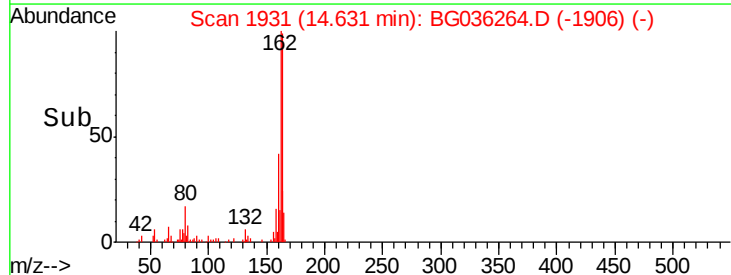
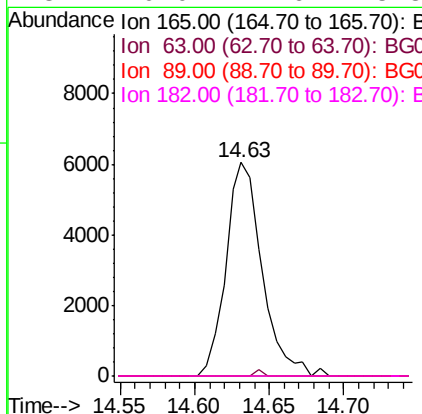
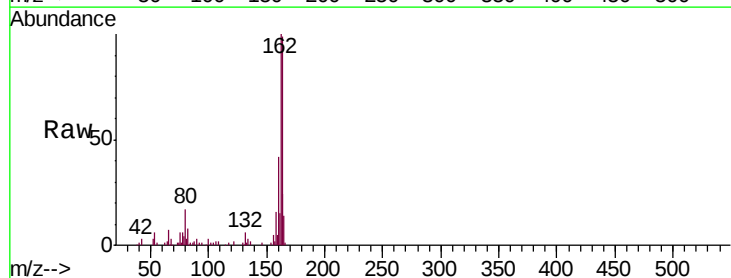
Instrument :  
 BNA\_G  
 ClientSampleId :  
 WC-SOIL

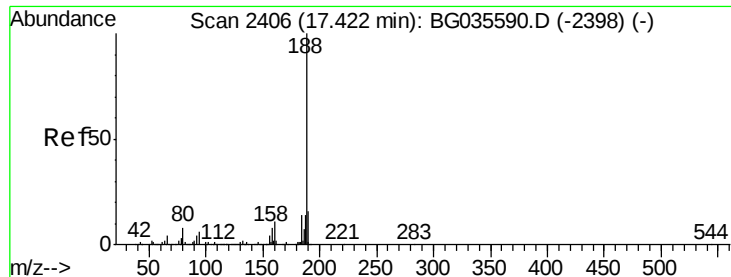
Tgt Ion:165 Resp: 10228  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 52.7 79.1#  
 89 0.0 49.2 73.8#



#56  
 2,4-Dinitrotoluene  
 Concen: 5.831 ng  
 RT: 14.63 min Scan# 1931  
 Delta R.T. -0.38 min  
 Lab File: BG036264.D  
 Acq: 10 Aug 2018 11:54

Tgt Ion:165 Resp: 10228  
 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: 17.38 min Scan# 2399

Delta R.T. -0.01 min

Lab File: BG036264.D

Acq: 10 Aug 2018 11:54

Instrument :

BNA\_G

ClientSampleId :

WC-SOIL

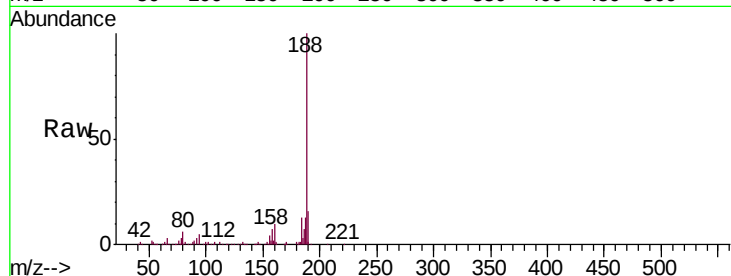
Tgt Ion:188 Resp: 195988

Ion Ratio Lower Upper

188 100

94 5.1 6.9 10.3#

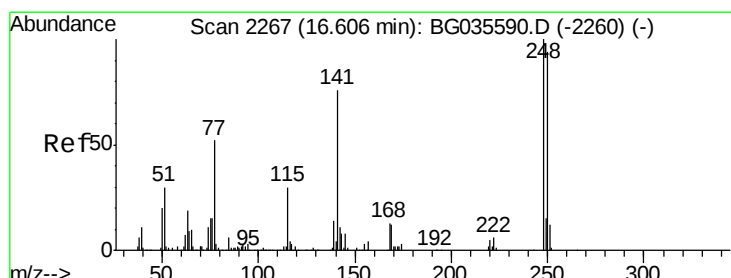
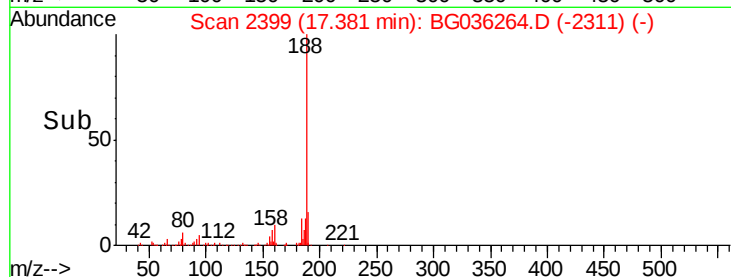
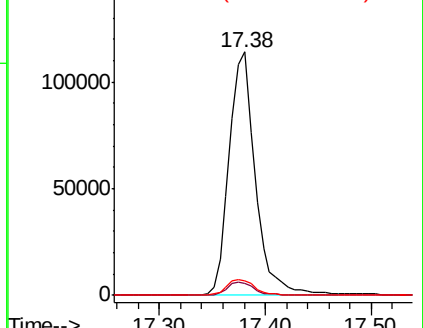
80 5.8 7.7 11.5#



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



#66

4-Bromophenyl-phenylether

Concen: 3.747 ng

RT: 16.12 min Scan# 2184

Delta R.T. -0.47 min

Lab File: BG036264.D

Acq: 10 Aug 2018 11:54

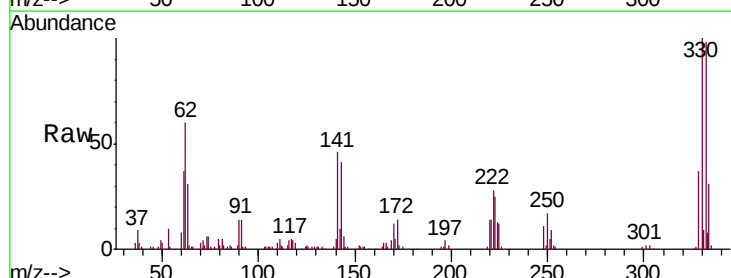
Tgt Ion:248 Resp: 8520

Ion Ratio Lower Upper

248 100

250 158.9 77.1 115.7#

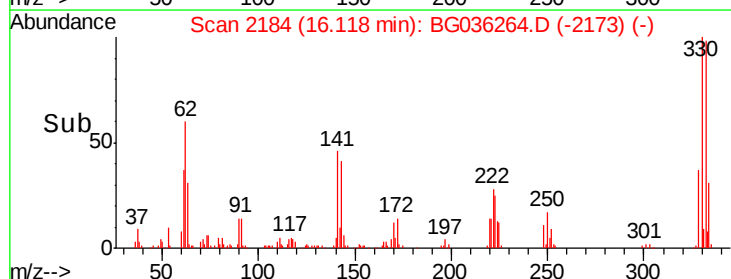
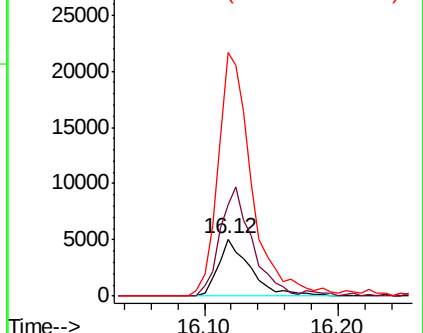
141 426.5 50.8 76.2#

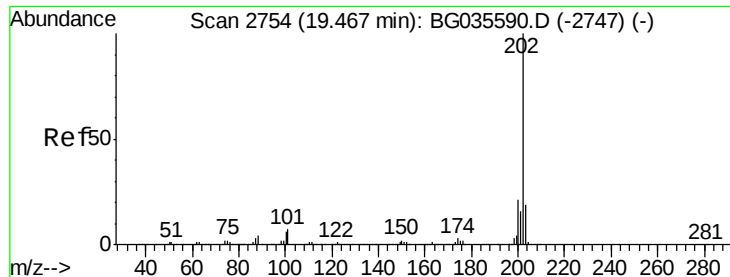


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#74

Fluoranthene

Concen: 3.786 ng

RT: 19.43 min Scan# 2748

Delta R.T. -0.01 min

Lab File: BG036264.D

Acq: 10 Aug 2018 11:54

Instrument :

BNA\_G

ClientSampleId :

WC-SOIL

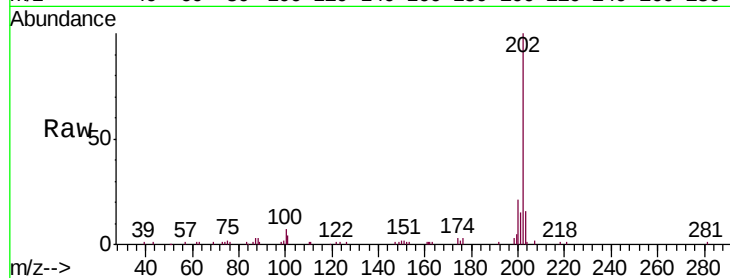
Tgt Ion:202 Resp: 49872

Ion Ratio Lower Upper

202 100

101 3.8 0.0 28.9

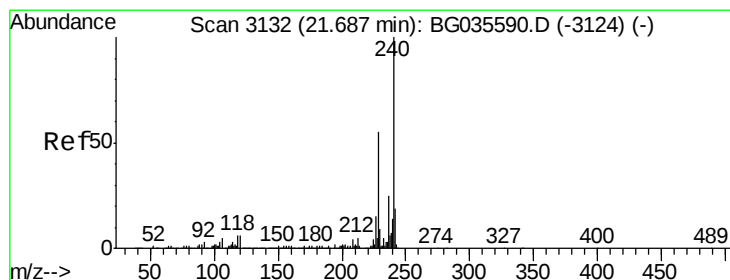
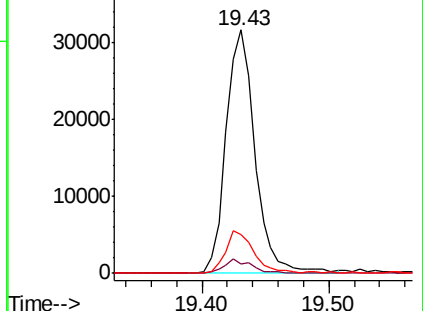
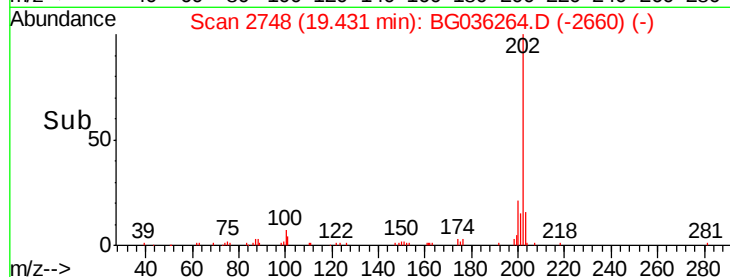
203 16.1 0.0 37.5



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.000 ng

RT: 21.64 min Scan# 3124

Delta R.T. -0.02 min

Lab File: BG036264.D

Acq: 10 Aug 2018 11:54

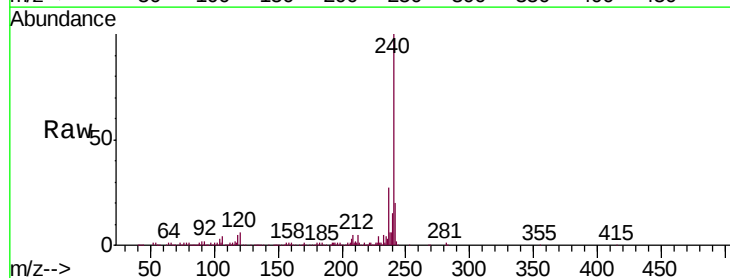
Tgt Ion:240 Resp: 211975

Ion Ratio Lower Upper

240 100

120 5.6 6.8 10.2#

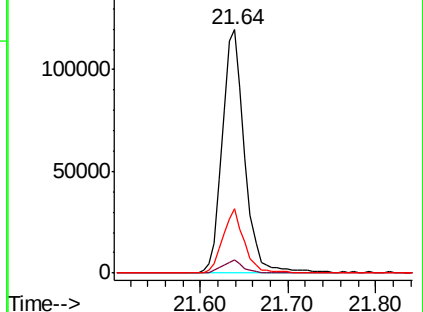
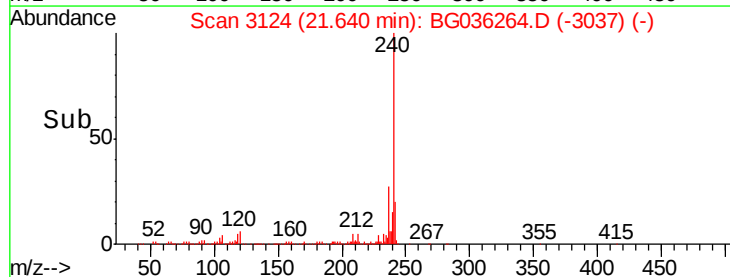
236 26.7 20.9 31.3

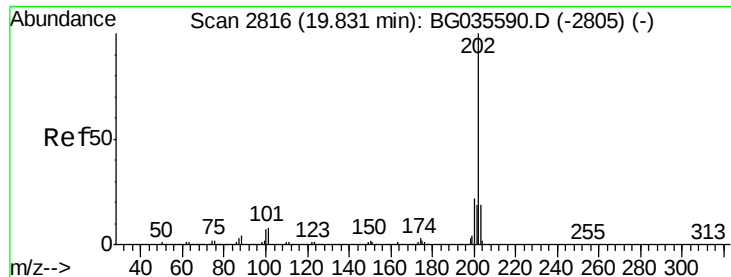


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 3.240 ng

RT: 19.79 min Scan# 2809

Delta R.T. -0.02 min

Lab File: BG036264.D

Acq: 10 Aug 2018 11:54

Instrument :

BNA\_G

ClientSampleId :

WC-SOIL

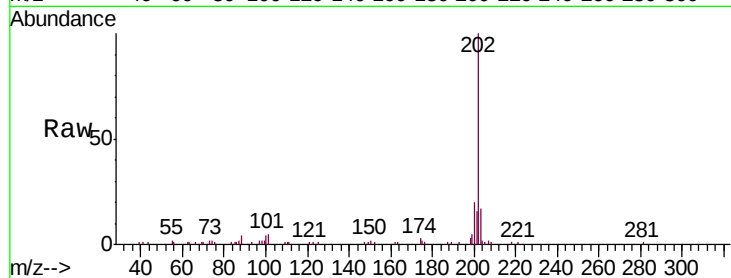
Tgt Ion:202 Resp: 43427

Ion Ratio Lower Upper

202 100

200 20.0 16.9 25.3

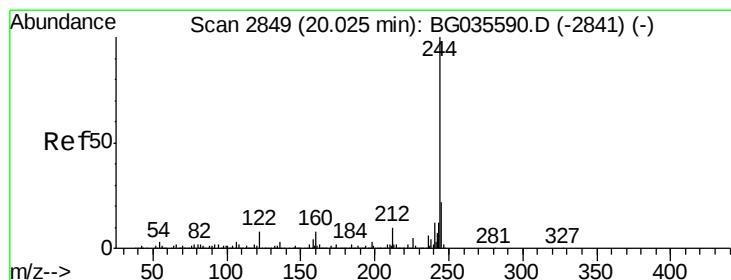
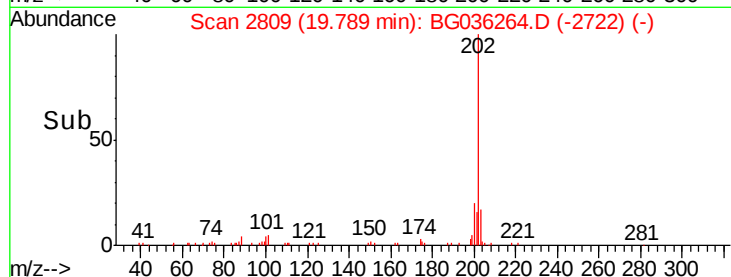
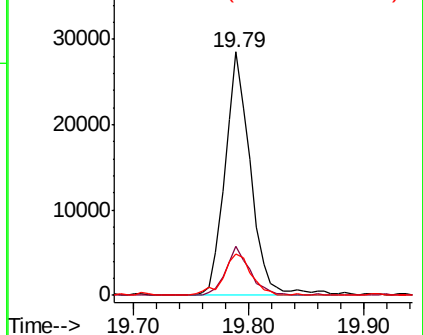
203 16.9 13.9 20.9



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 59.847 ng

RT: 19.98 min Scan# 2842

Delta R.T. -0.02 min

Lab File: BG036264.D

Acq: 10 Aug 2018 11:54

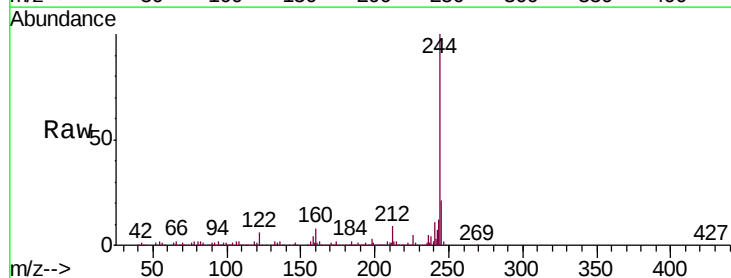
Tgt Ion:244 Resp: 575518

Ion Ratio Lower Upper

244 100

212 9.4 5.8 8.8#

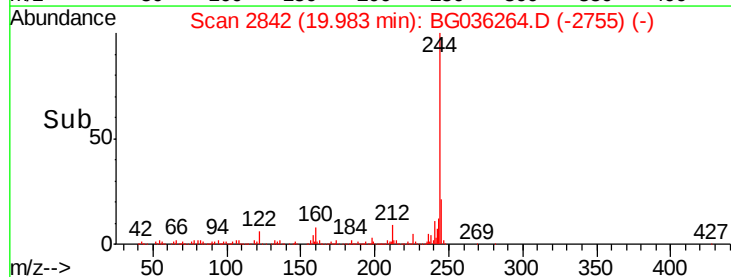
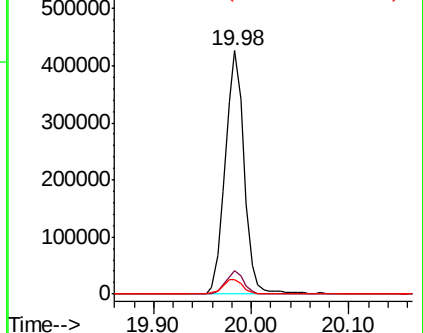
122 6.2 7.0 10.4#

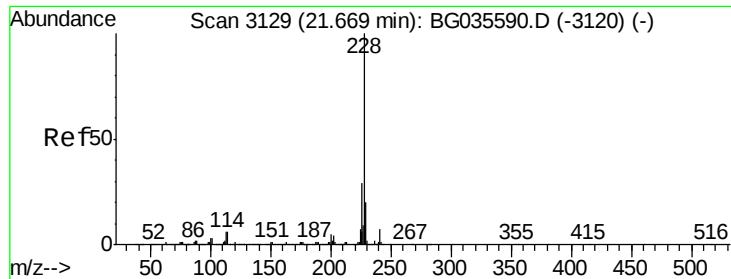


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 2.966 ng

RT: 21.68 min Scan# 3131

Delta R.T. 0.04 min

Lab File: BG036264.D

Acq: 10 Aug 2018 11:54

Instrument :

BNA\_G

ClientSampleId :

WC-SOIL

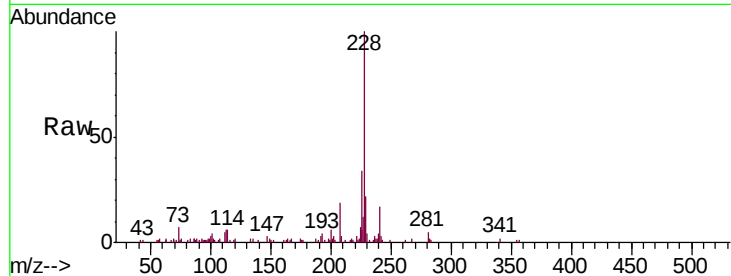
Tgt Ion:228 Resp: 39180

Ion Ratio Lower Upper

228 100

226 33.6 22.7 34.1

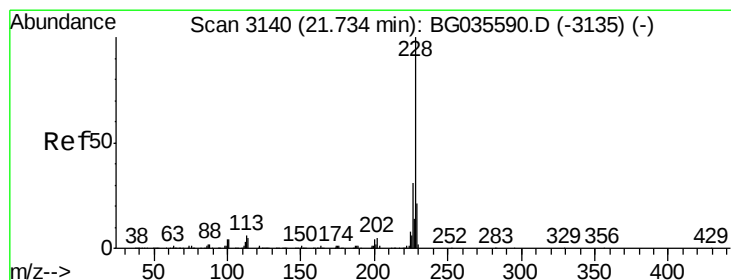
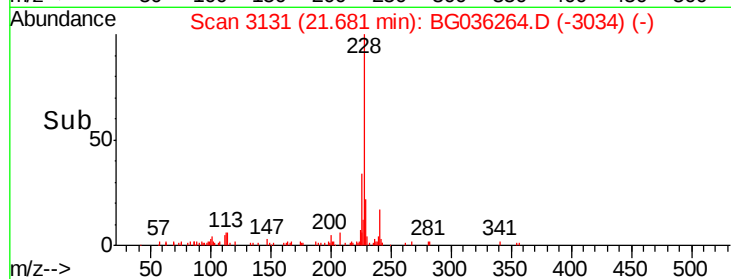
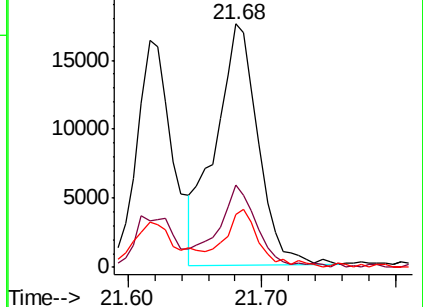
229 21.9 16.2 24.2



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

Chrysene

Concen: 3.201 ng

RT: 21.68 min Scan# 3131

Delta R.T. -0.03 min

Lab File: BG036264.D

Acq: 10 Aug 2018 11:54

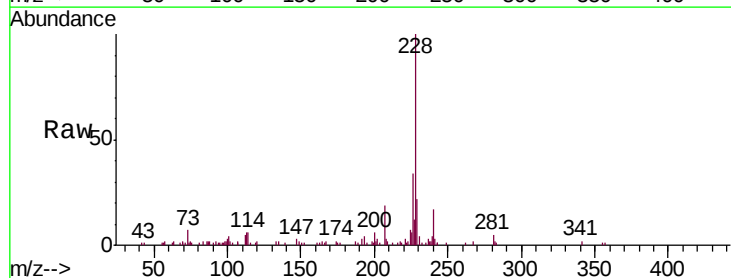
Tgt Ion:228 Resp: 39180

Ion Ratio Lower Upper

228 100

226 33.6 24.9 37.3

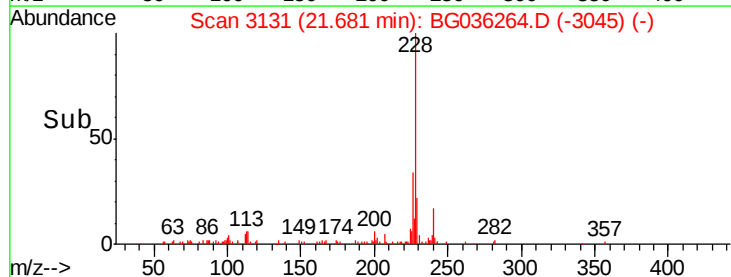
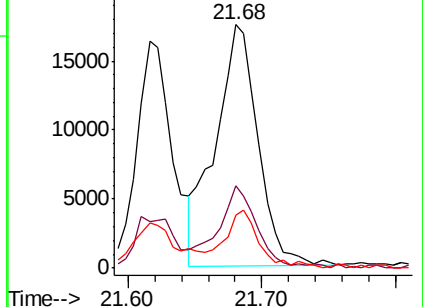
229 21.9 15.0 22.4

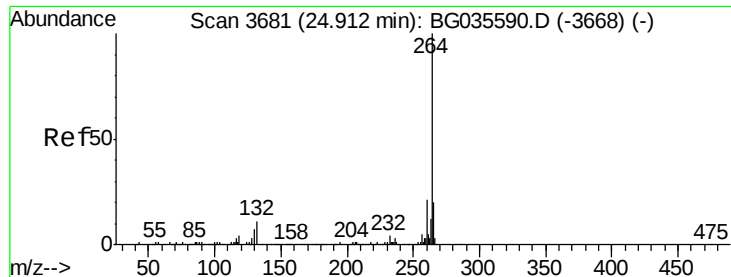


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



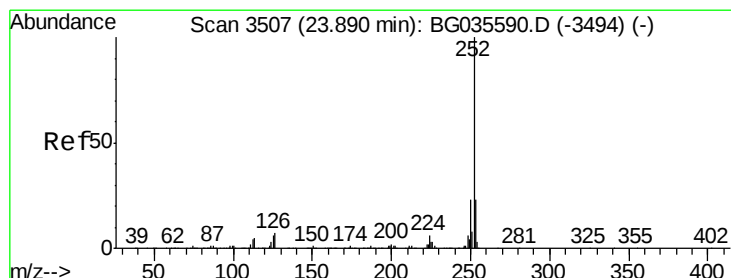
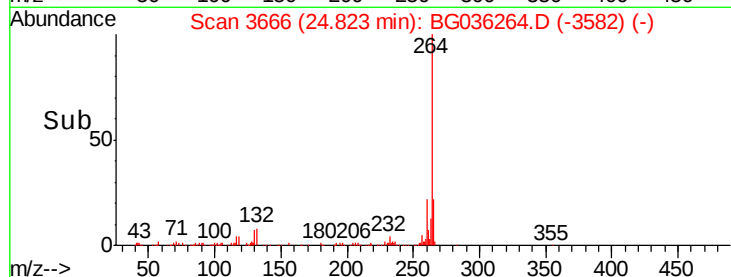
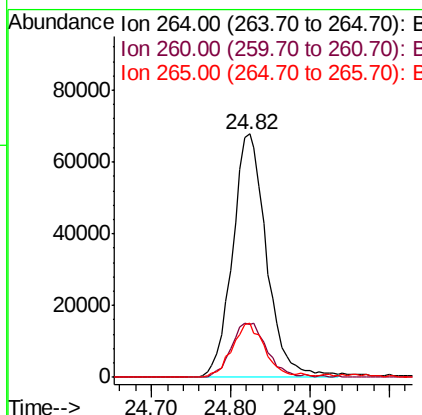
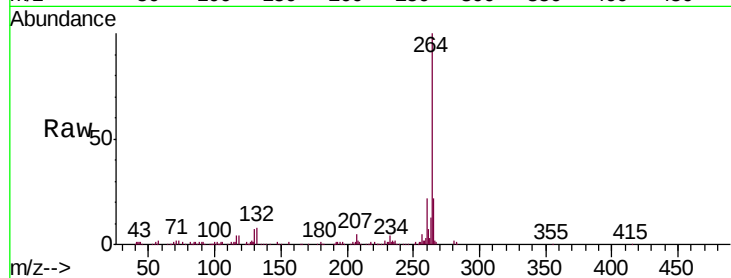


#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.82 min Scan# 3666  
Delta R.T. -0.04 min  
Lab File: BG036264.D  
Acq: 10 Aug 2018 11:54

Instrument :  
BNA\_G  
ClientSampleId :  
WC-SOIL

Tgt Ion: 264 Resp: 201172  

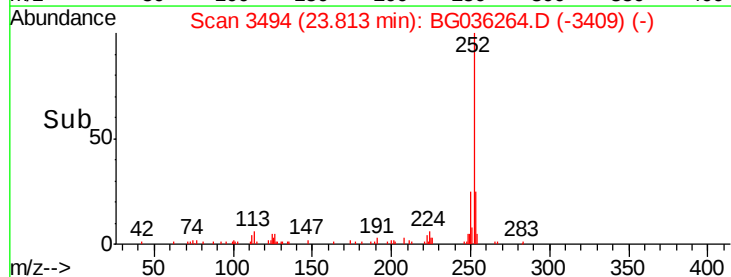
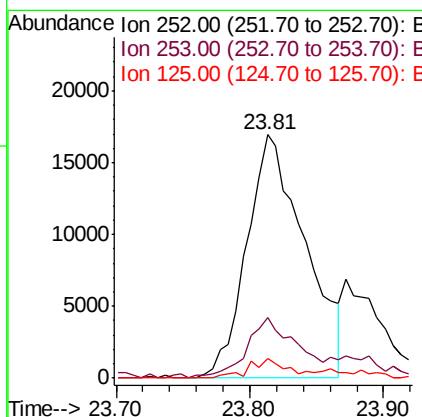
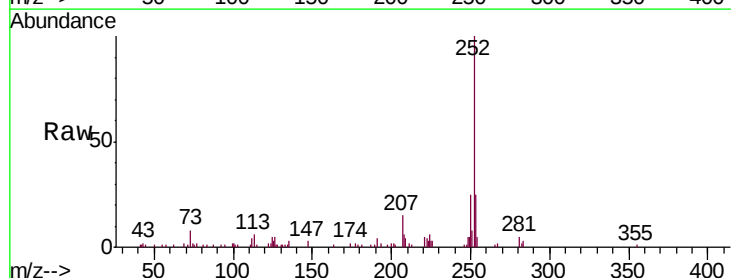
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 21.5  | 17.4  | 26.0  |
| 265 | 22.2  | 17.7  | 26.5  |

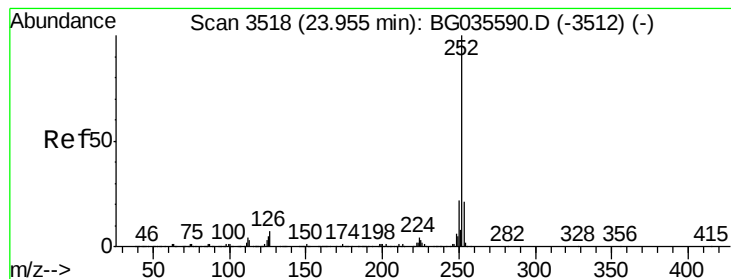


#87  
Benzo(b)fluoranthene  
Concen: 4.203 ng  
RT: 23.81 min Scan# 3494  
Delta R.T. -0.03 min  
Lab File: BG036264.D  
Acq: 10 Aug 2018 11:54

Tgt Ion: 252 Resp: 51390  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 25.0  | 18.2  | 27.4  |
| 125 | 8.0   | 7.2   | 10.8  |





#88  
 Benzo(k)fluoranthene  
 Concen: 4.299 ng  
 RT: 23.81 min Scan# 3494  
 Delta R.T. -0.10 min  
 Lab File: BG036264.D  
 Acq: 10 Aug 2018 11:54

Instrument :  
 BNA\_G  
 ClientSampleId :  
 WC-SOIL

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 252   | Resp: | 51390 |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 25.0  | 17.4  | 26.2  |
| 125      | 8.0   | 6.6   | 9.8   |

