

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG050924\  
 Data File : BG061151.D  
 Acq On : 9 May 2024 14:48  
 Operator : MA/JU  
 Sample : P2414-01  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 1011UMR-SS004-0212-01

Quant Time: May 09 15:37:52 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG043024.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 01 05:11:25 2024  
 Response via : Initial Calibration

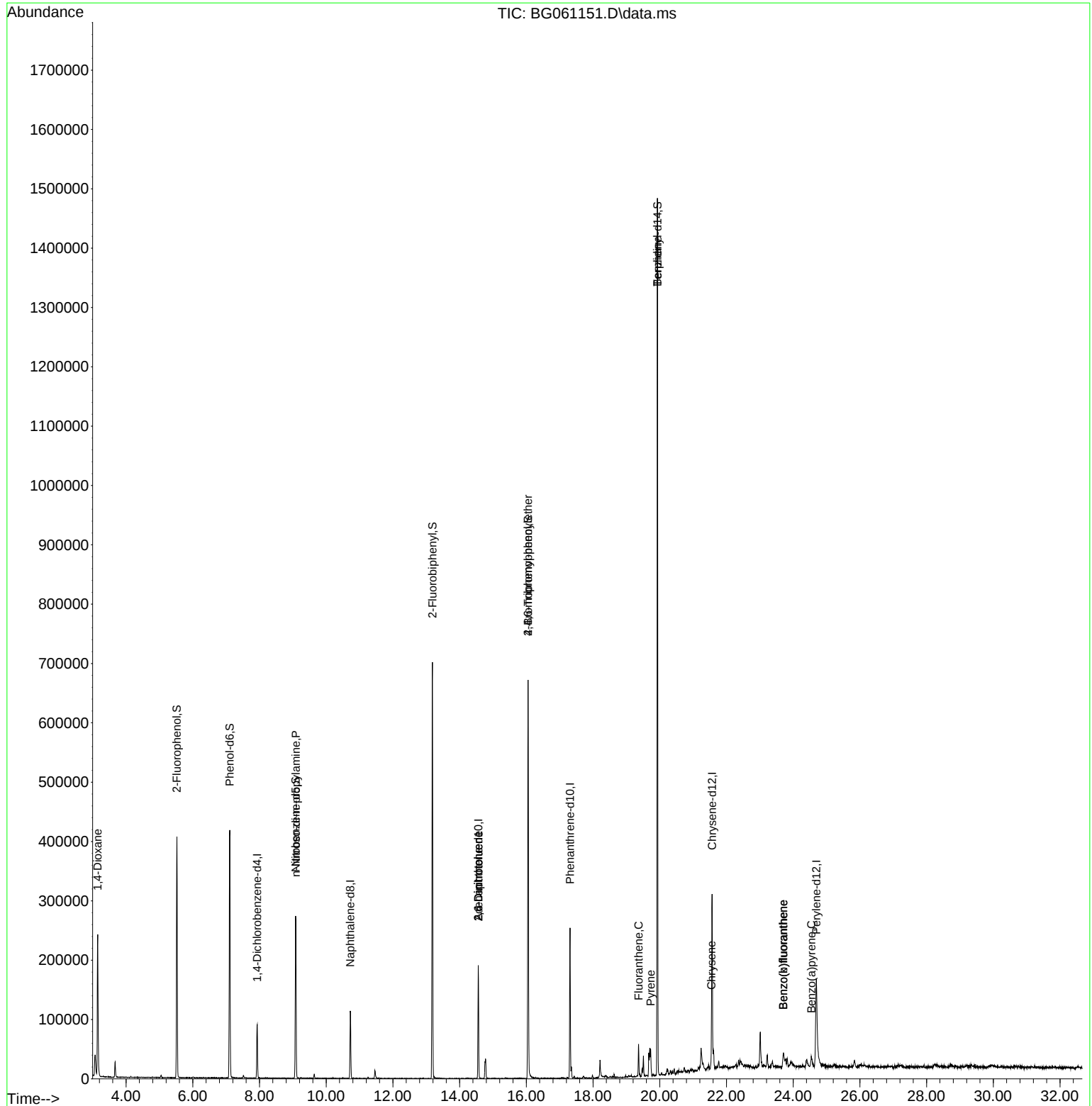
| Compound                      | R.T.   | QIon | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-----------|--------|----------|
| -----                         |        |      |          |           |        |          |
| Internal Standards            |        |      |          |           |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.926  | 152  | 23668    | 20.000    | ng     | -0.03    |
| 21) Naphthalene-d8            | 10.723 | 136  | 89335    | 20.000    | ng     | #-0.03   |
| 39) Acenaphthene-d10          | 14.560 | 164  | 68169    | 20.000    | ng     | -0.03    |
| 64) Phenanthrene-d10          | 17.310 | 188  | 167531   | 20.000    | ng     | -0.02    |
| 76) Chrysene-d12              | 21.569 | 240  | 171588   | 20.000    | ng     | -0.02    |
| 86) Perylene-d12              | 24.695 | 264  | 204342   | 20.000    | ng     | -0.03    |
| System Monitoring Compounds   |        |      |          |           |        |          |
| 5) 2-Fluorophenol             | 5.523  | 112  | 142478   | 122.428   | ng     | -0.02    |
| 7) Phenol-d6                  | 7.110  | 99   | 190633   | 110.731   | ng     | -0.02    |
| 23) Nitrobenzene-d5           | 9.084  | 82   | 143234   | 79.481    | ng     | -0.03    |
| 42) 2,4,6-Tribromophenol      | 16.052 | 330  | 155789   | 114.334   | ng     | -0.02    |
| 45) 2-Fluorobiphenyl          | 13.185 | 172  | 368781   | 79.996    | ng     | -0.02    |
| 79) Terphenyl-d14             | 19.930 | 244  | 750237   | 72.718    | ng     | -0.02    |
| Target Compounds              |        |      |          |           |        |          |
|                               |        |      |          |           | Qvalue |          |
| 2) 1,4-Dioxane                | 3.150  | 88   | 1976     | 4.199     | ng     | # 1      |
| 9) Benzaldehyde               | 7.104  | 77   | 350      | Below Cal |        | # 3      |
| 19) n-Nitroso-di-n-propyla... | 9.090  | 70   | 21198    | 16.453    | ng     | # 65     |
| 51) 2,6-Dinitrotoluene        | 14.560 | 165  | 8588     | 7.625     | ng     | # 15     |
| 57) 2,4-Dinitrotoluene        | 14.560 | 165  | 8588     | 5.154     | ng     | # 17     |
| 67) 4-Bromophenyl-phenylether | 16.052 | 248  | 9826     | 4.979     | ng     | # 1      |
| 75) Fluoranthene              | 19.366 | 202  | 35213    | 3.355     | ng     | 98       |
| 77) Benzidine                 | 19.930 | 184  | 11900    | 6.228     | ng     | # 89     |
| 78) Pyrene                    | 19.730 | 202  | 31150    | 2.855     | ng     | 98       |
| 83) Chrysene                  | 21.546 | 228  | 21313    | 2.026     | ng     | 95       |
| 88) Benzo(b)fluoranthene      | 23.702 | 252  | 30216    | 2.646     | ng     | # 99     |
| 89) Benzo(k)fluoranthene      | 23.702 | 252  | 30216    | 2.751     | ng     | # 98     |
| 90) Benzo(a)pyrene            | 24.548 | 252  | 21349    | 2.146     | ng     | # 96     |
| -----                         |        |      |          |           |        |          |

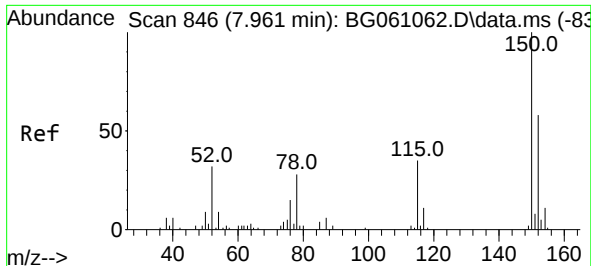
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG050924\  
Data File : BG061151.D  
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Operator : MA/JU  
Sample : P2414-01  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
1011UMR-SS004-0212-01

Quant Time: May 09 15:37:52 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG043024.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 01 05:11:25 2024  
Response via : Initial Calibration

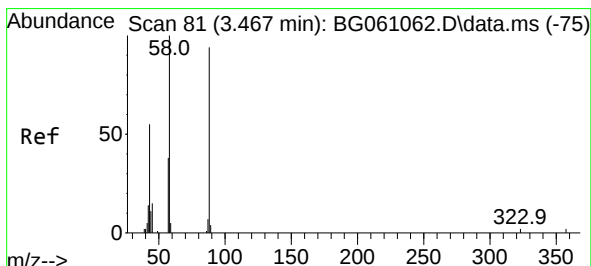
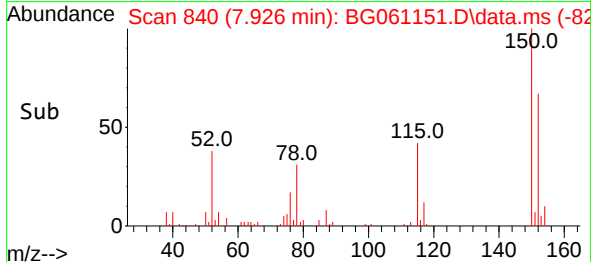
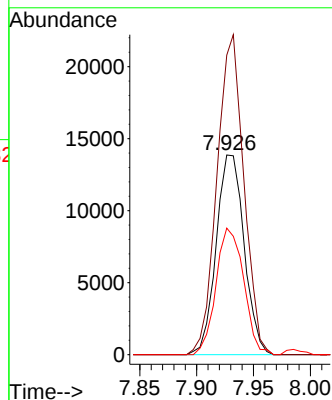
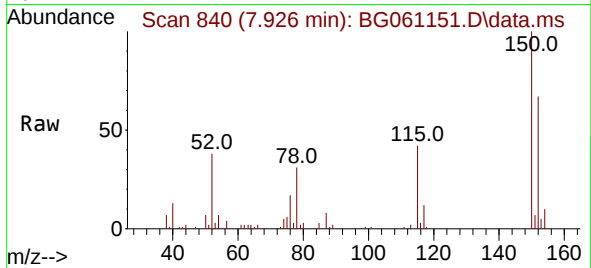




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.926 min Scan# 84  
Delta R.T. -0.035 min  
Lab File: BG061151.D  
Acq: 9 May 2024 14:48

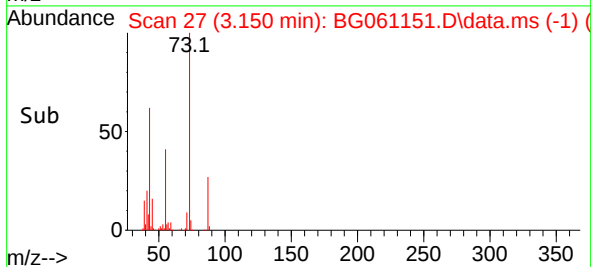
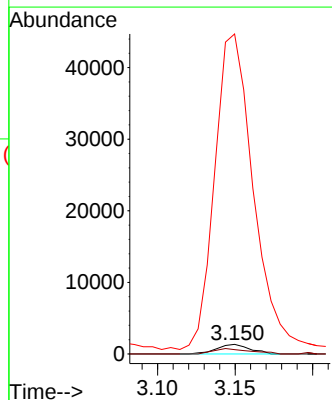
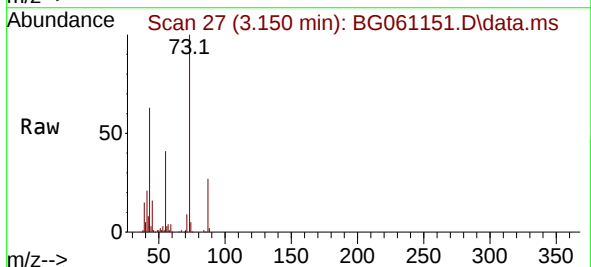
Instrument :  
BNA\_G  
ClientSampleId :  
1011UMR-SS004-0212-01

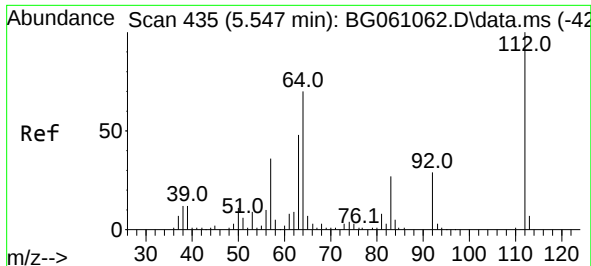
Tgt Ion:152 Resp: 23668  
Ion Ratio Lower Upper  
152 100  
150 150.1 138.3 207.5  
115 63.4 48.0 72.0



#2  
1,4-Dioxane  
Concen: 4.199 ng  
RT: 3.150 min Scan# 27  
Delta R.T. -0.317 min  
Lab File: BG061151.D  
Acq: 9 May 2024 14:48

Tgt Ion: 88 Resp: 1976  
Ion Ratio Lower Upper  
88 100  
58 61.8 81.2 121.8#  
43 3937.1 45.0 67.4#

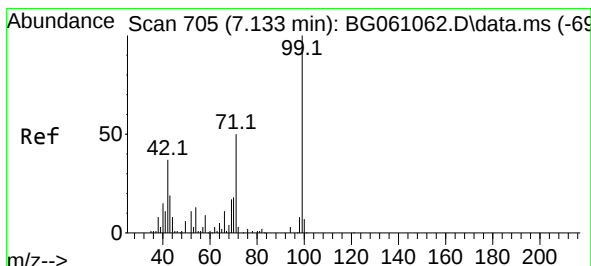
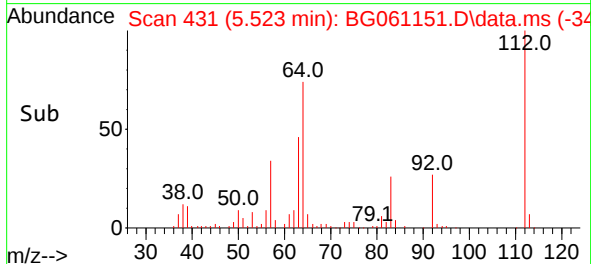
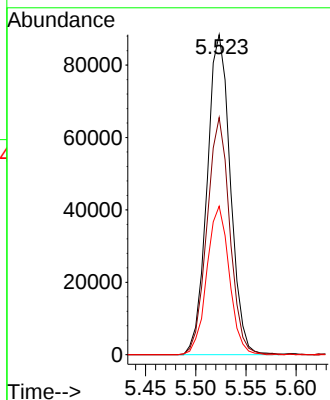
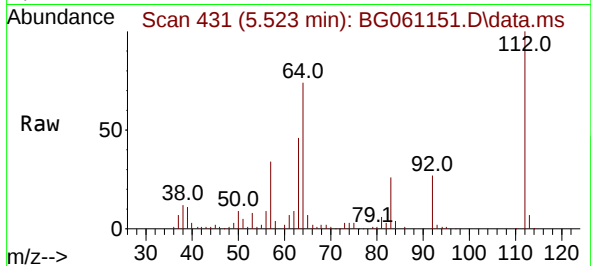




#5  
2-Fluorophenol  
Concen: 122.428 ng  
RT: 5.523 min Scan# 41  
Delta R.T. -0.023 min  
Lab File: BG061151.D  
Acq: 9 May 2024 14:48

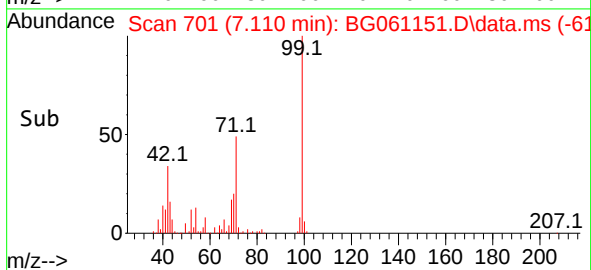
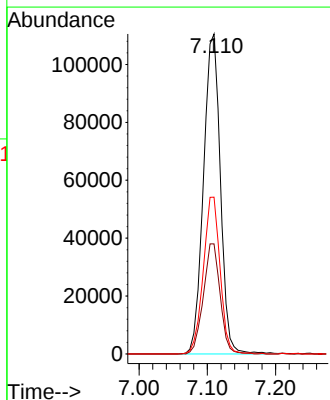
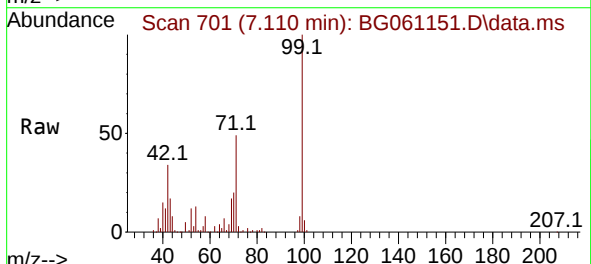
Instrument :  
BNA\_G  
ClientSampleId :  
1011UMR-SS004-0212-01

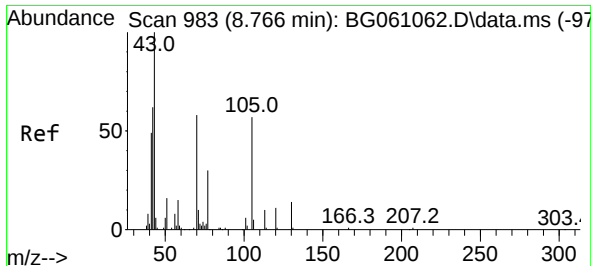
Tgt Ion:112 Resp: 142478  
Ion Ratio Lower Upper  
112 100  
64 74.1 55.7 83.5  
63 46.4 38.1 57.1



#7  
Phenol-d6  
Concen: 110.731 ng  
RT: 7.110 min Scan# 701  
Delta R.T. -0.023 min  
Lab File: BG061151.D  
Acq: 9 May 2024 14:48

Tgt Ion: 99 Resp: 190633  
Ion Ratio Lower Upper  
99 100  
42 34.4 29.2 43.8  
71 49.0 39.7 59.5

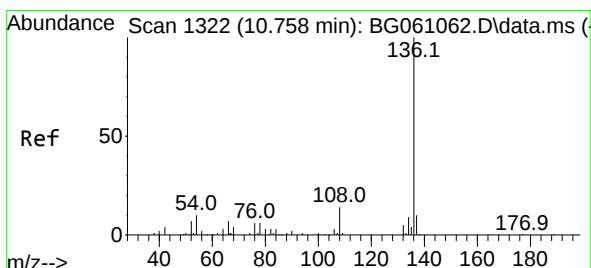
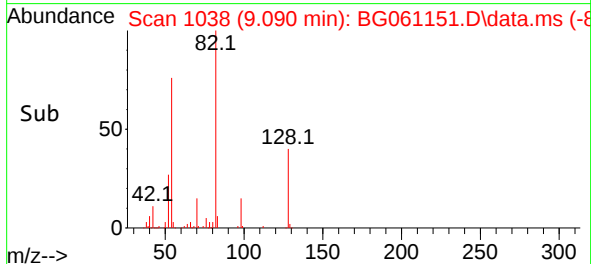
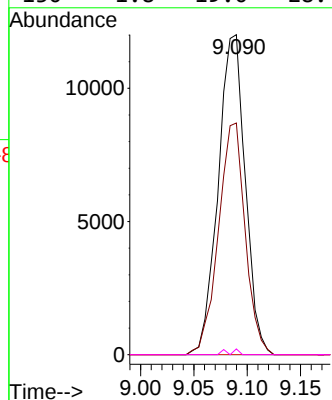
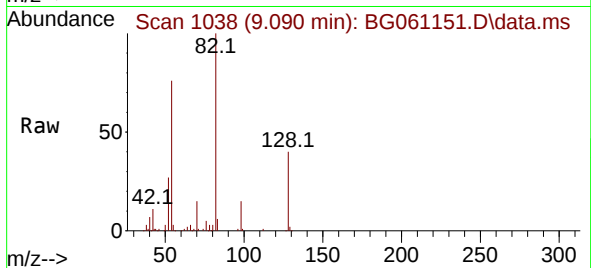




#19  
n-Nitroso-di-n-propylamine  
Concen: 16.453 ng  
RT: 9.090 min Scan# 1038  
Delta R.T. 0.323 min  
Lab File: BG061151.D  
Acq: 9 May 2024 14:48

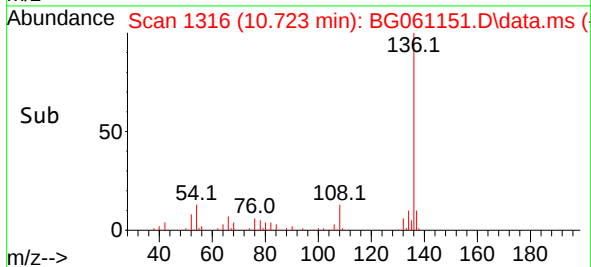
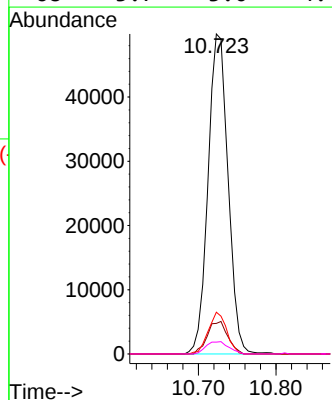
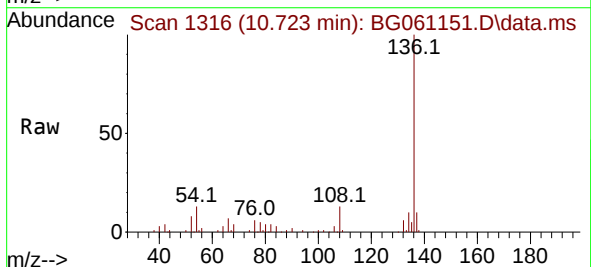
Instrument :  
BNA\_G  
ClientSampleId :  
1011UMR-SS004-0212-01

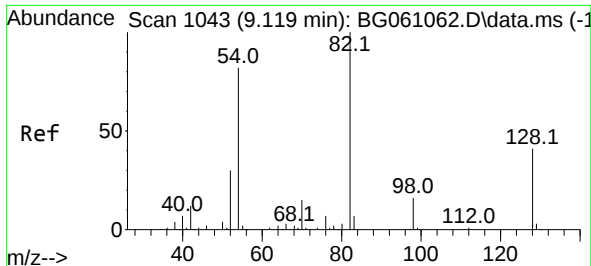
Tgt Ion: 70 Resp: 21198  
Ion Ratio Lower Upper  
70 100  
42 72.4 86.4 129.6#  
101 0.0 7.8 11.8#  
130 1.8 19.0 28.4#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.723 min Scan# 1316  
Delta R.T. -0.035 min  
Lab File: BG061151.D  
Acq: 9 May 2024 14:48

Tgt Ion: 136 Resp: 89335  
Ion Ratio Lower Upper  
136 100  
137 9.6 7.8 11.6  
54 13.1 8.1 12.1#  
68 3.7 3.0 4.4





#23

Nitrobenzene-d5

Concen: 79.481 ng

RT: 9.084 min Scan# 1043

Delta R.T. -0.035 min

Lab File: BG061151.D

Acq: 9 May 2024 14:48

Instrument :

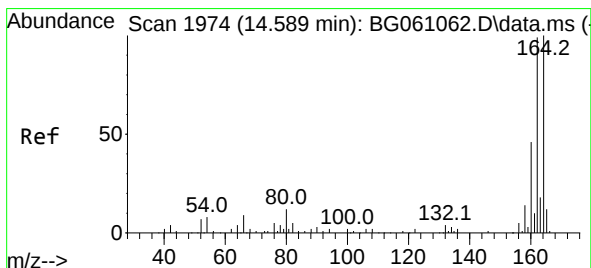
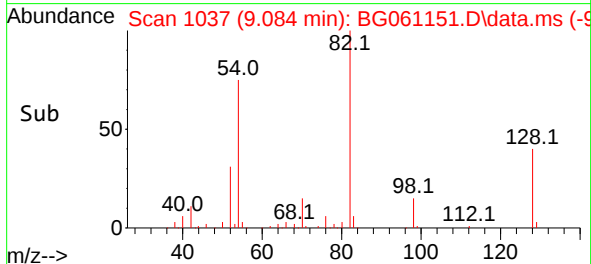
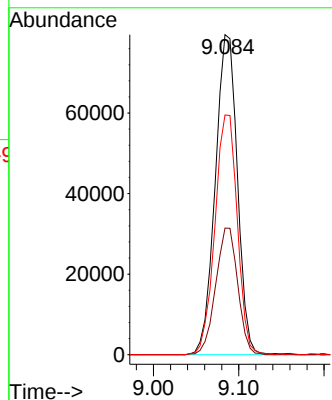
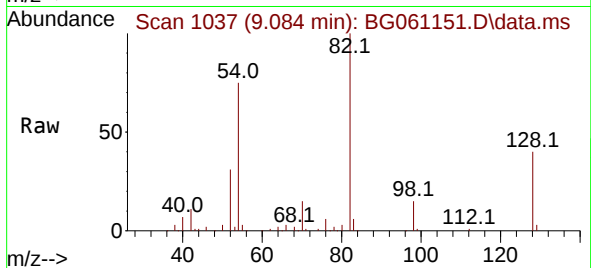
BNA\_G

ClientSampleId :

1011UMR-SS004-0212-01

Tgt Ion: 82 Resp: 143234

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 39.6  | 32.7  | 49.1  |
| 54  | 74.9  | 65.6  | 98.4  |



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.560 min Scan# 1969

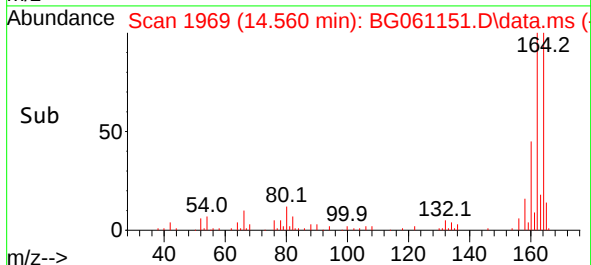
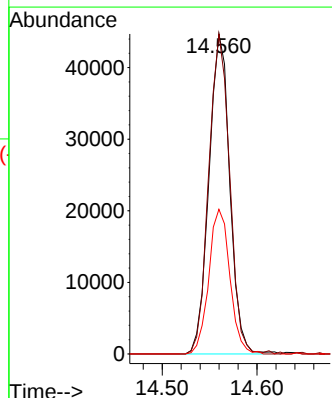
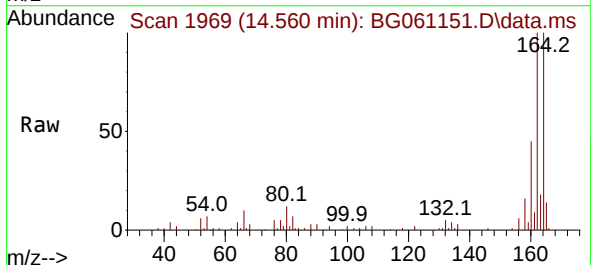
Delta R.T. -0.029 min

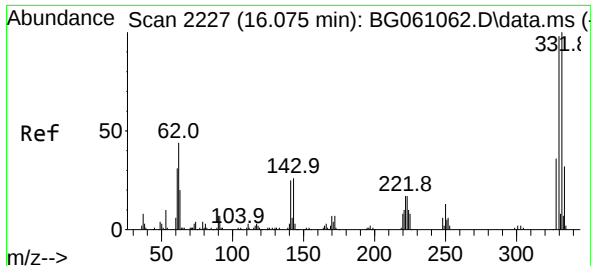
Lab File: BG061151.D

Acq: 9 May 2024 14:48

Tgt Ion:164 Resp: 68169

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 99.9  | 79.4  | 119.2 |
| 160 | 45.2  | 37.0  | 55.6  |





#42

2,4,6-Tribromophenol

Concen: 114.334 ng

RT: 16.052 min Scan# 21

Delta R.T. -0.023 min

Lab File: BG061151.D

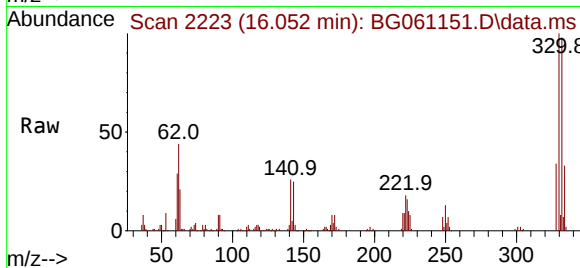
Acq: 9 May 2024 14:48

Instrument :

BNA\_G

ClientSampleId :

1011UMR-SS004-0212-01



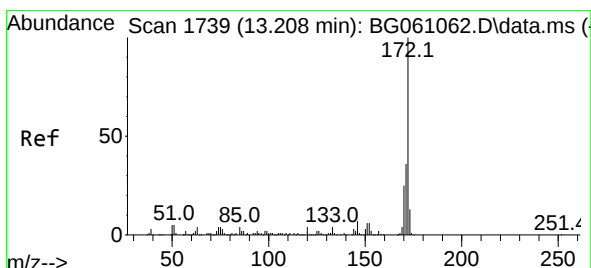
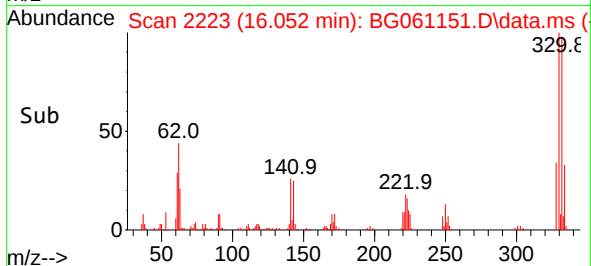
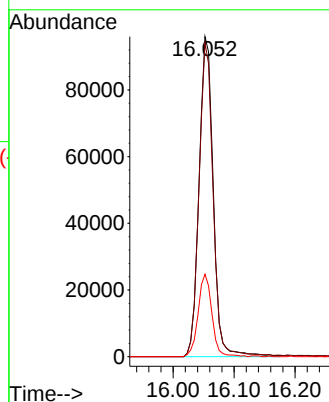
Tgt Ion:330 Resp: 155789

Ion Ratio Lower Upper

330 100

332 97.7 78.6 117.8

141 24.9 20.5 30.7



#45

2-Fluorobiphenyl

Concen: 79.996 ng

RT: 13.185 min Scan# 1735

Delta R.T. -0.023 min

Lab File: BG061151.D

Acq: 9 May 2024 14:48

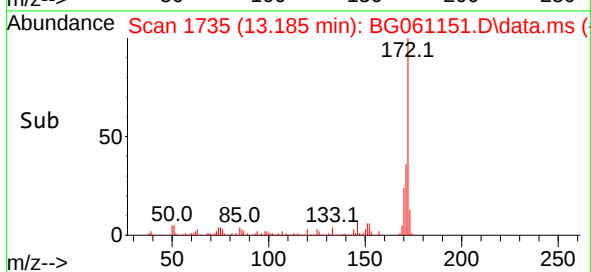
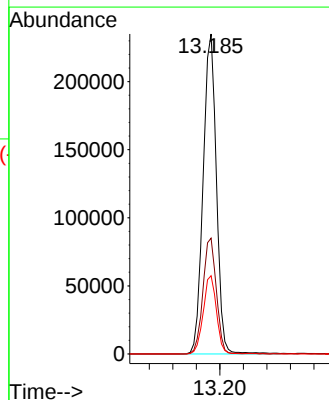
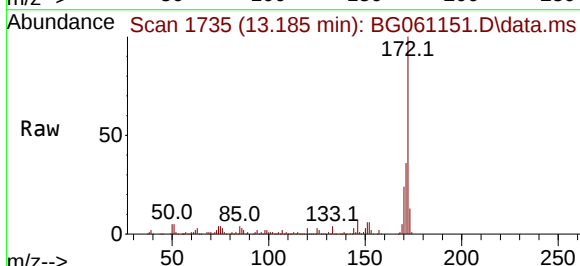
Tgt Ion:172 Resp: 368781

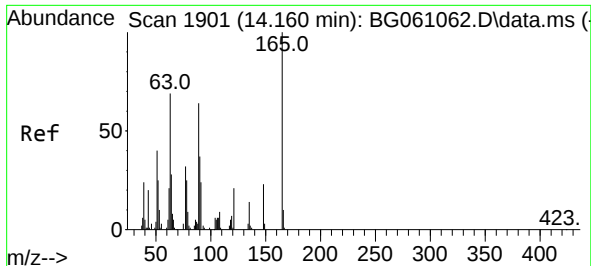
Ion Ratio Lower Upper

172 100

171 36.2 29.0 43.6

170 24.4 20.2 30.4

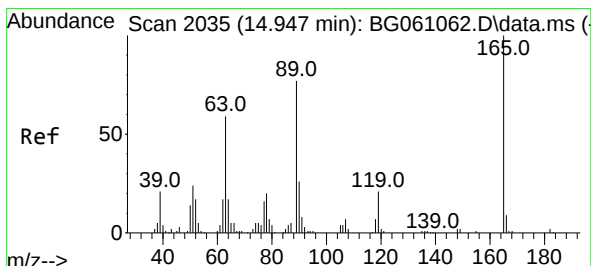
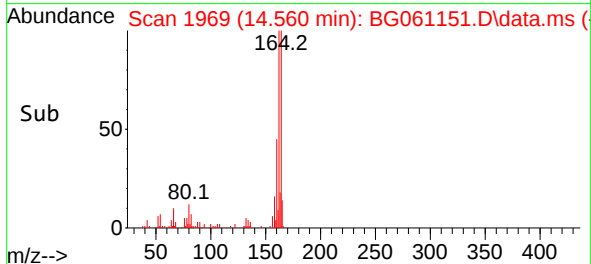
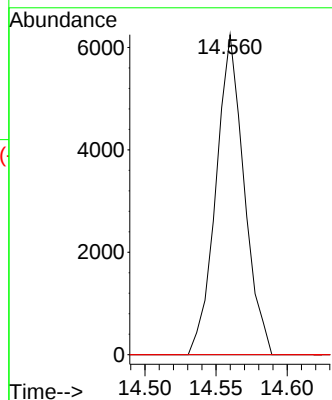
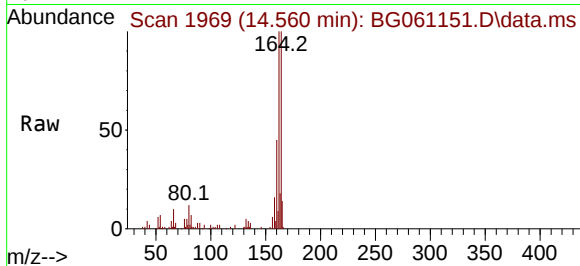




#51  
2,6-Dinitrotoluene  
Concen: 7.625 ng  
RT: 14.560 min Scan# 1901  
Delta R.T. 0.400 min  
Lab File: BG061151.D  
Acq: 9 May 2024 14:48

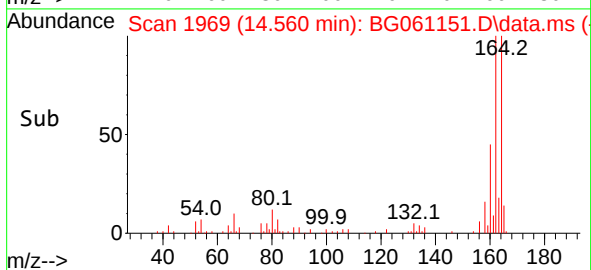
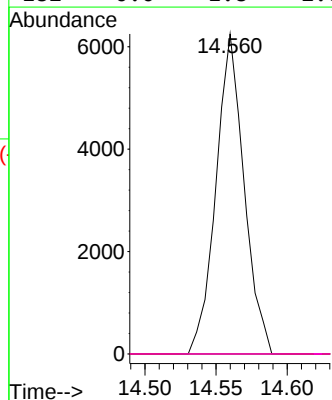
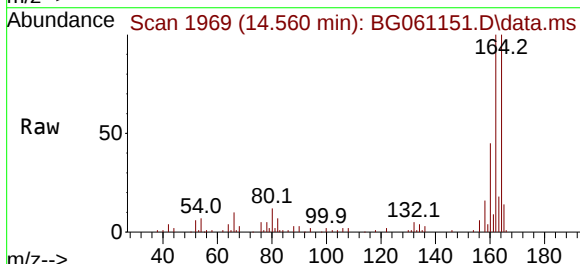
Instrument :  
BNA\_G  
ClientSampleId :  
1011UMR-SS004-0212-01

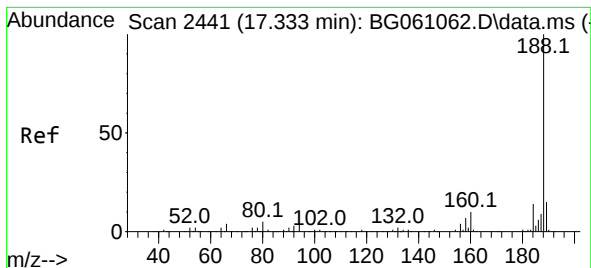
Tgt Ion:165 Resp: 8588  
Ion Ratio Lower Upper  
165 100  
63 0.0 60.0 90.0#  
89 0.0 50.9 76.3#



#57  
2,4-Dinitrotoluene  
Concen: 5.154 ng  
RT: 14.560 min Scan# 1969  
Delta R.T. -0.388 min  
Lab File: BG061151.D  
Acq: 9 May 2024 14:48

Tgt Ion:165 Resp: 8588  
Ion Ratio Lower Upper  
165 100  
63 0.0 47.3 70.9#  
89 0.0 61.8 92.8#  
182 0.0 1.8 2.6#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.310 min Scan# 24

Delta R.T. -0.023 min

Lab File: BG061151.D

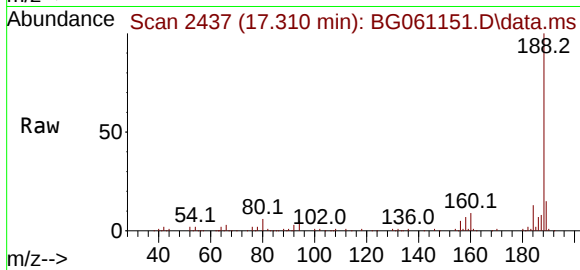
Acq: 9 May 2024 14:48

Instrument :

BNA\_G

ClientSampleId :

1011UMR-SS004-0212-01



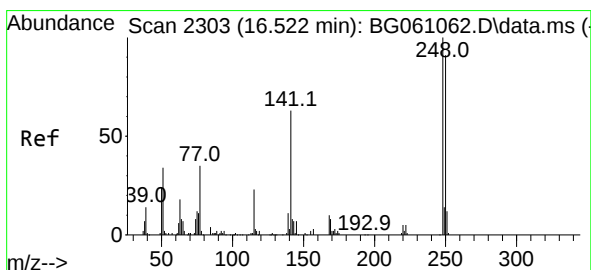
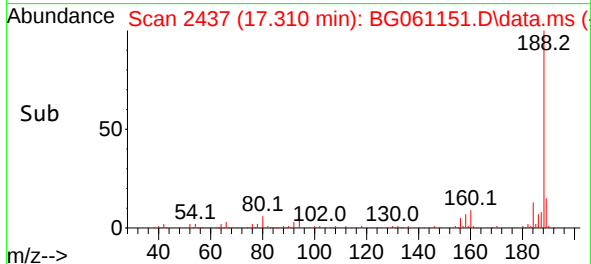
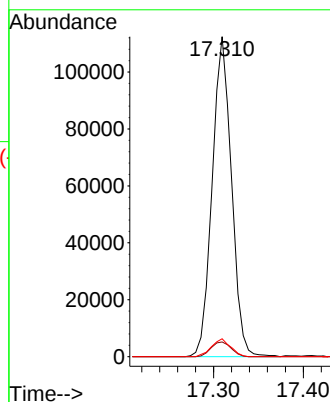
Tgt Ion:188 Resp: 167531

Ion Ratio Lower Upper

188 100

94 4.6 3.6 5.4

80 5.6 4.2 6.2



#67

4-Bromophenyl-phenylether

Concen: 4.979 ng

RT: 16.052 min Scan# 2223

Delta R.T. -0.470 min

Lab File: BG061151.D

Acq: 9 May 2024 14:48

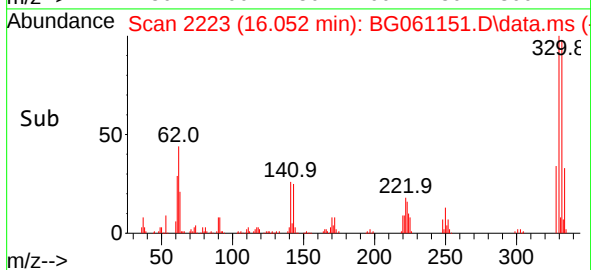
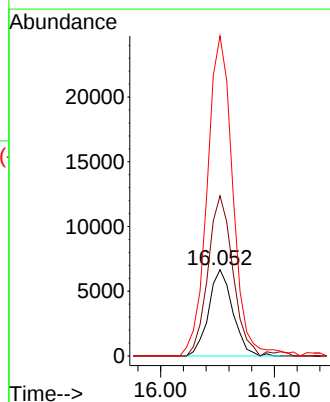
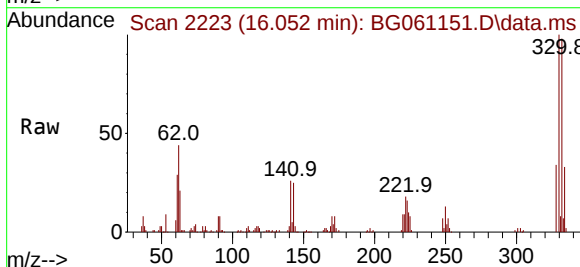
Tgt Ion:248 Resp: 9826

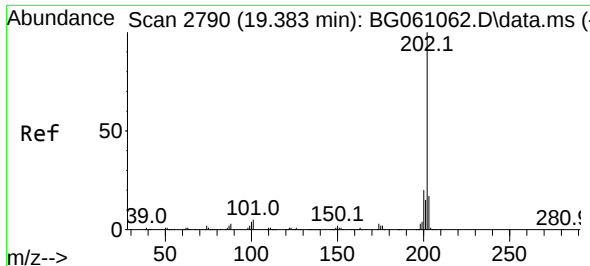
Ion Ratio Lower Upper

248 100

250 185.5 73.0 109.4#

141 370.8 50.8 76.2#

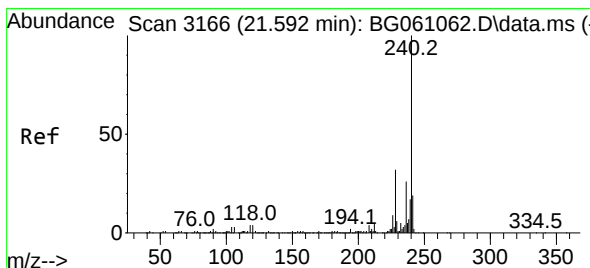
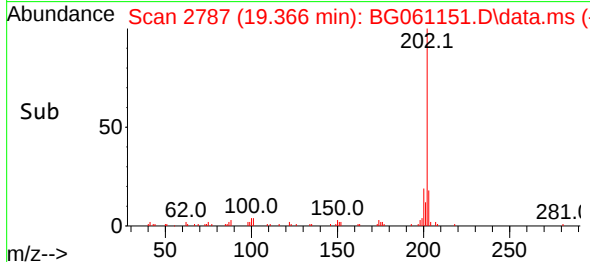
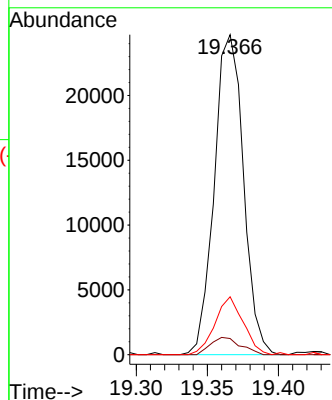
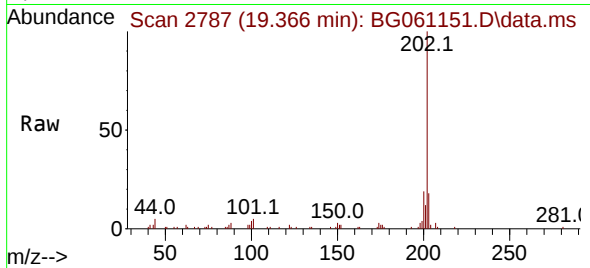




#75  
Fluoranthene  
Concen: 3.355 ng  
RT: 19.366 min Scan# 21  
Delta R.T. -0.017 min  
Lab File: BG061151.D  
Acq: 9 May 2024 14:48

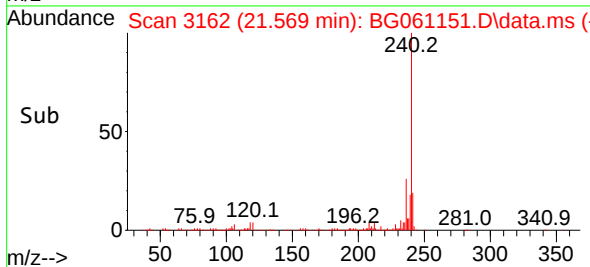
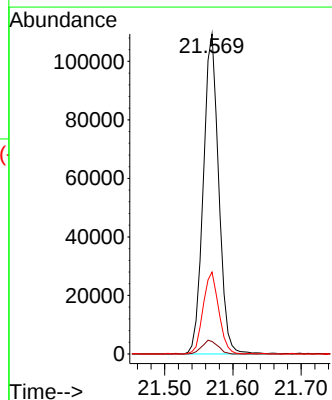
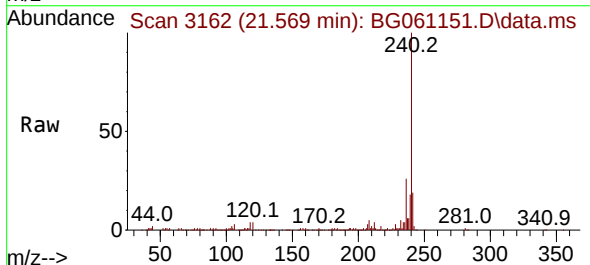
Instrument :  
BNA\_G  
ClientSampleId :  
1011UMR-SS004-0212-01

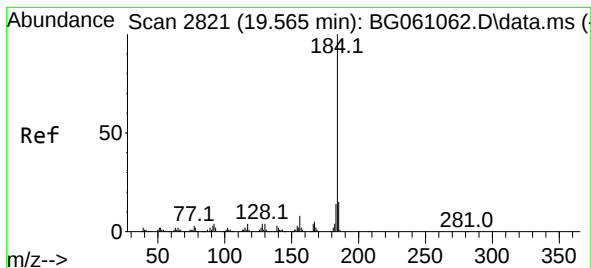
Tgt Ion:202 Resp: 35213  
Ion Ratio Lower Upper  
202 100  
101 5.0 0.0 24.7  
203 18.1 0.0 37.1



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.569 min Scan# 3162  
Delta R.T. -0.023 min  
Lab File: BG061151.D  
Acq: 9 May 2024 14:48

Tgt Ion:240 Resp: 171588  
Ion Ratio Lower Upper  
240 100  
120 3.9 3.2 4.8  
236 25.6 21.0 31.6





#77

Benzidine

Concen: 6.228 ng

RT: 19.930 min Scan# 2849

Delta R.T. 0.365 min

Lab File: BG061151.D

Acq: 9 May 2024 14:48

Instrument :

BNA\_G

ClientSampleId :

1011UMR-SS004-0212-01

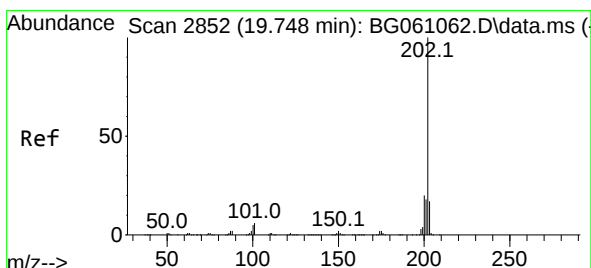
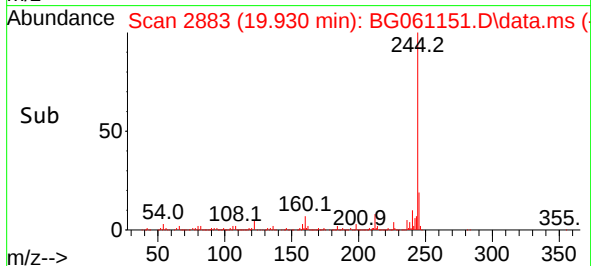
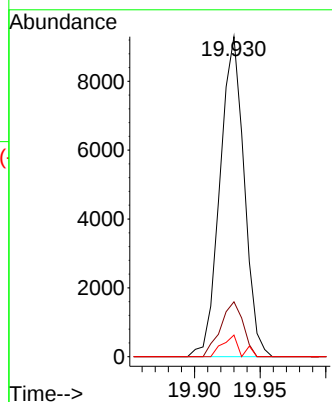
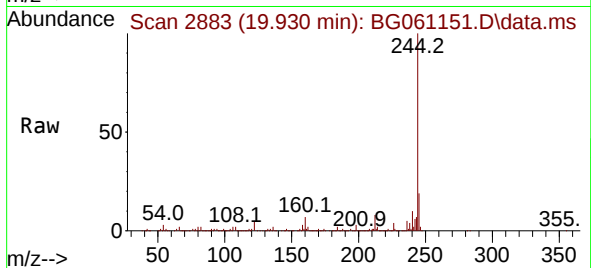
Tgt Ion:184 Resp: 11900

Ion Ratio Lower Upper

184 100

185 17.1 12.0 18.0

183 6.8 10.9 16.3#



#78

Pyrene

Concen: 2.855 ng

RT: 19.730 min Scan# 2849

Delta R.T. -0.017 min

Lab File: BG061151.D

Acq: 9 May 2024 14:48

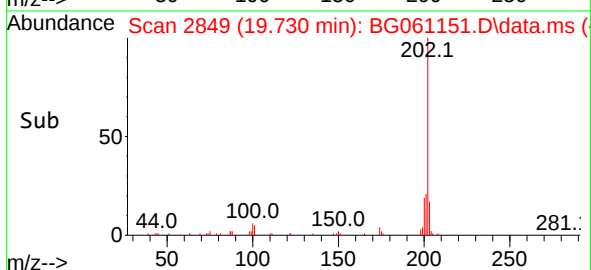
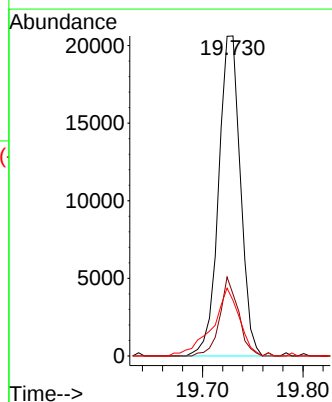
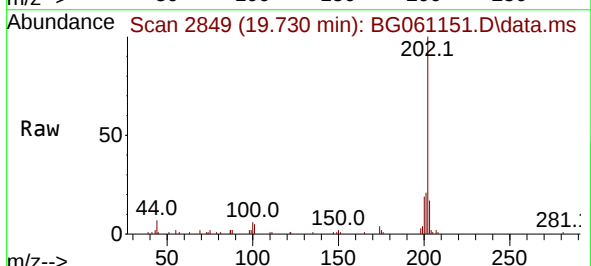
Tgt Ion:202 Resp: 31150

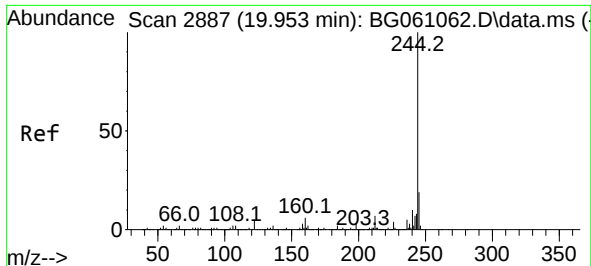
Ion Ratio Lower Upper

202 100

200 19.3 16.2 24.4

203 17.3 13.3 19.9

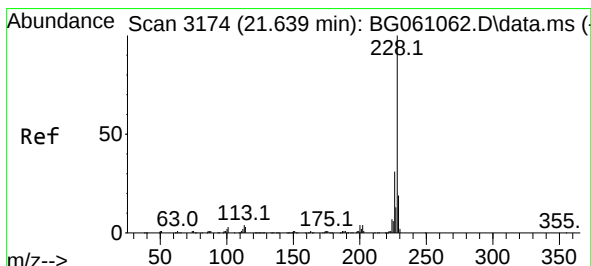
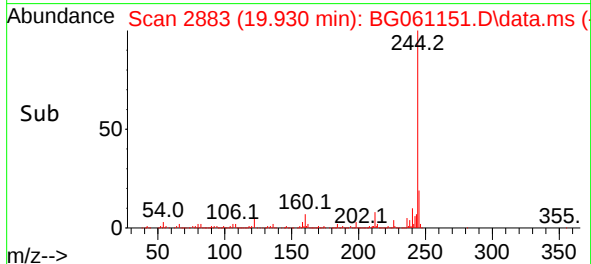
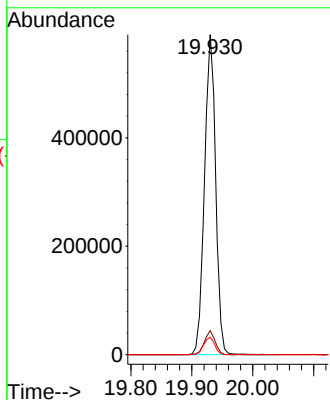
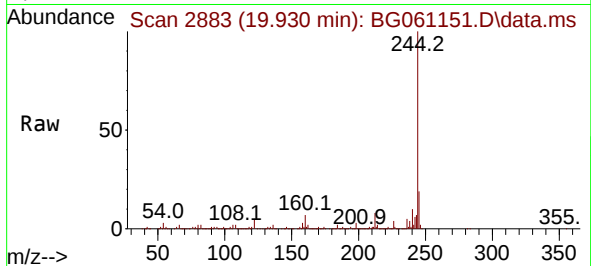




#79  
 Terphenyl-d14  
 Concen: 72.718 ng  
 RT: 19.930 min Scan# 21  
 Delta R.T. -0.023 min  
 Lab File: BG061151.D  
 Acq: 9 May 2024 14:48

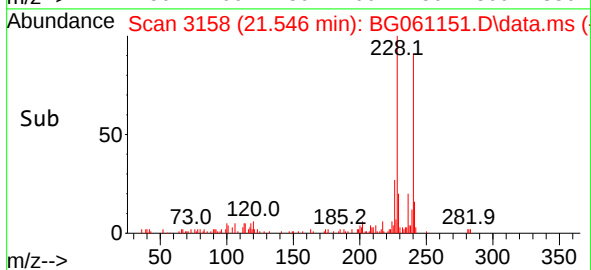
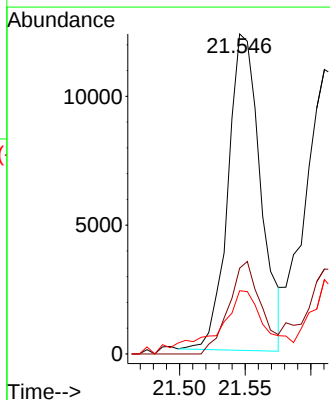
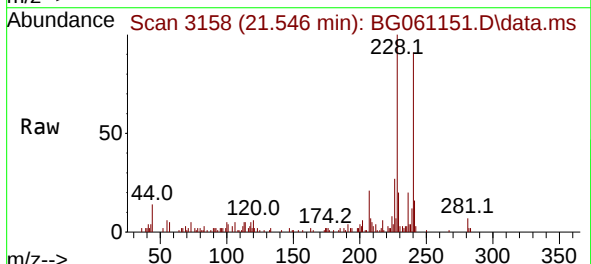
Instrument :  
 BNA\_G  
 ClientSampleId :  
 1011UMR-SS004-0212-01

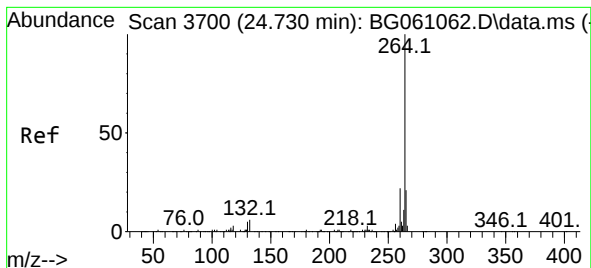
Tgt Ion:244 Resp: 750237  
 Ion Ratio Lower Upper  
 244 100  
 212 7.5 5.7 8.5  
 122 5.4 4.2 6.2



#83  
 Chrysene  
 Concen: 2.026 ng  
 RT: 21.546 min Scan# 3158  
 Delta R.T. -0.094 min  
 Lab File: BG061151.D  
 Acq: 9 May 2024 14:48

Tgt Ion:228 Resp: 21313  
 Ion Ratio Lower Upper  
 228 100  
 226 26.8 24.4 36.6  
 229 19.8 14.8 22.2





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.695 min Scan# 3

Delta R.T. -0.035 min

Lab File: BG061151.D

Acq: 9 May 2024 14:48

Instrument :

BNA\_G

ClientSampleId :

1011UMR-SS004-0212-01

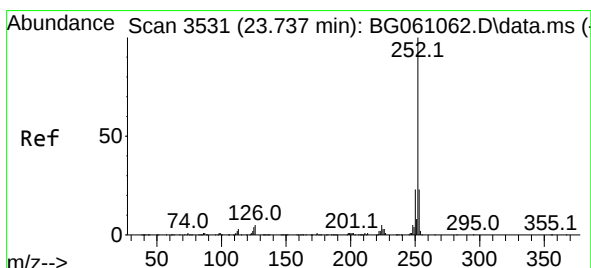
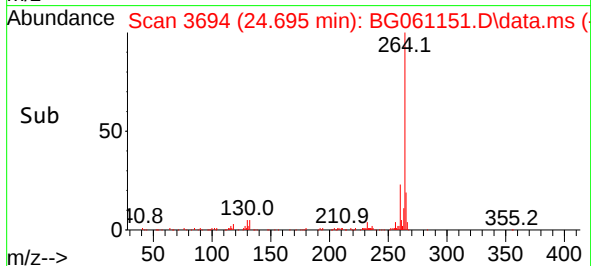
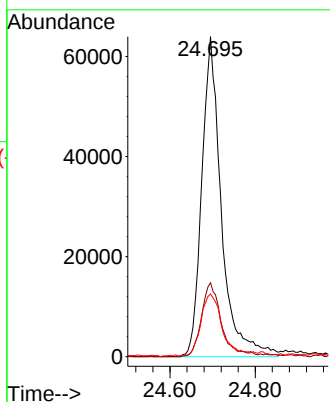
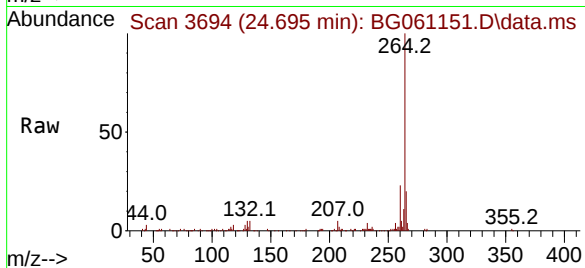
Tgt Ion:264 Resp: 204342

Ion Ratio Lower Upper

264 100

260 23.1 17.7 26.5

265 19.6 16.4 24.6



#88

Benzo(b)fluoranthene

Concen: 2.646 ng

RT: 23.702 min Scan# 3525

Delta R.T. -0.035 min

Lab File: BG061151.D

Acq: 9 May 2024 14:48

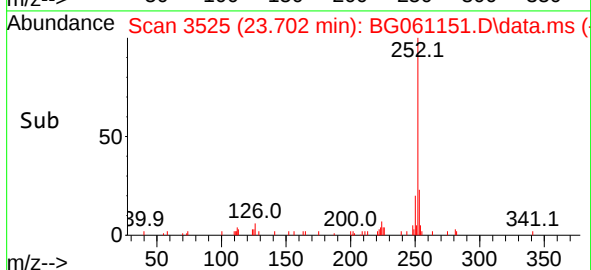
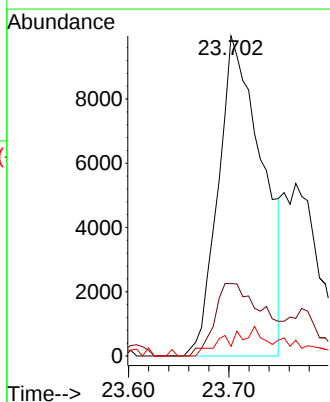
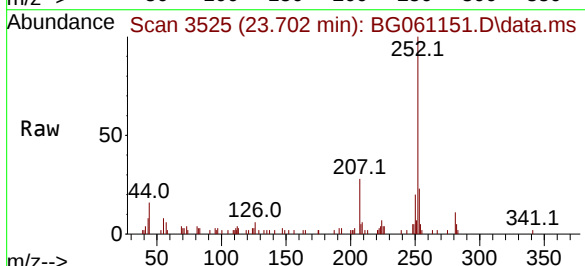
Tgt Ion:252 Resp: 30216

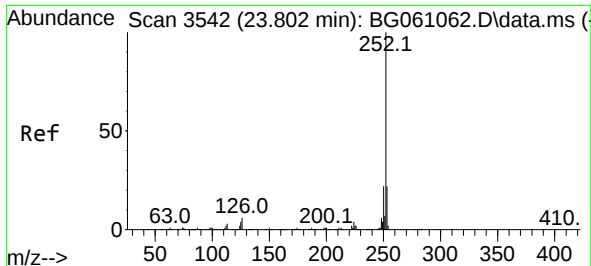
Ion Ratio Lower Upper

252 100

253 22.6 18.2 27.2

125 3.0 3.4 5.0#

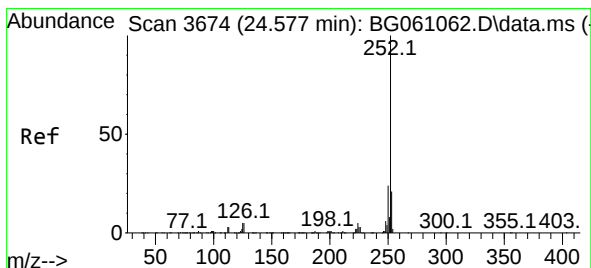
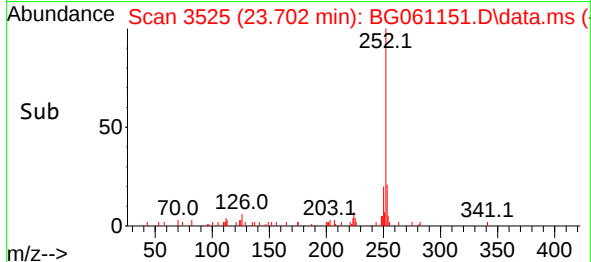
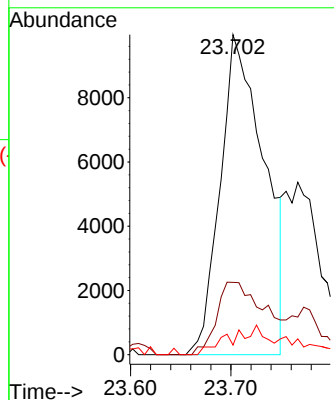
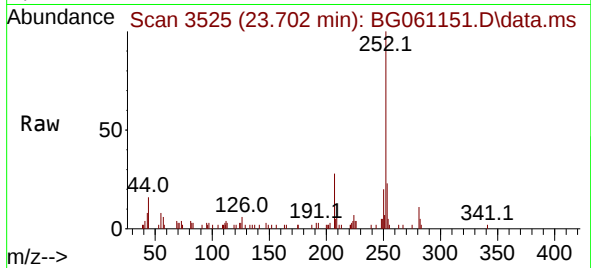




#89  
Benzo(k)fluoranthene  
Concen: 2.751 ng  
RT: 23.702 min Scan# 31  
Delta R.T. -0.100 min  
Lab File: BG061151.D  
Acq: 9 May 2024 14:48

Instrument :  
BNA\_G  
ClientSampleId :  
1011UMR-SS004-0212-01

Tgt Ion:252 Resp: 30216  
Ion Ratio Lower Upper  
252 100  
253 22.6 17.3 25.9  
125 3.0 3.2 4.8#



#90  
Benzo(a)pyrene  
Concen: 2.146 ng  
RT: 24.548 min Scan# 3669  
Delta R.T. -0.029 min  
Lab File: BG061151.D  
Acq: 9 May 2024 14:48

Tgt Ion:252 Resp: 21349  
Ion Ratio Lower Upper  
252 100  
253 19.8 16.9 25.3  
125 7.1 3.8 5.8#

