

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040623\  
 Data File : BG057018.D  
 Acq On : 6 Apr 2023 19:01  
 Operator : CG/JU  
 Sample : 02126-06DL 5X  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 RS-FDL

Quant Time: Apr 07 01:39:29 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG033023.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Apr 07 01:33:41 2023  
 Response via : Initial Calibration

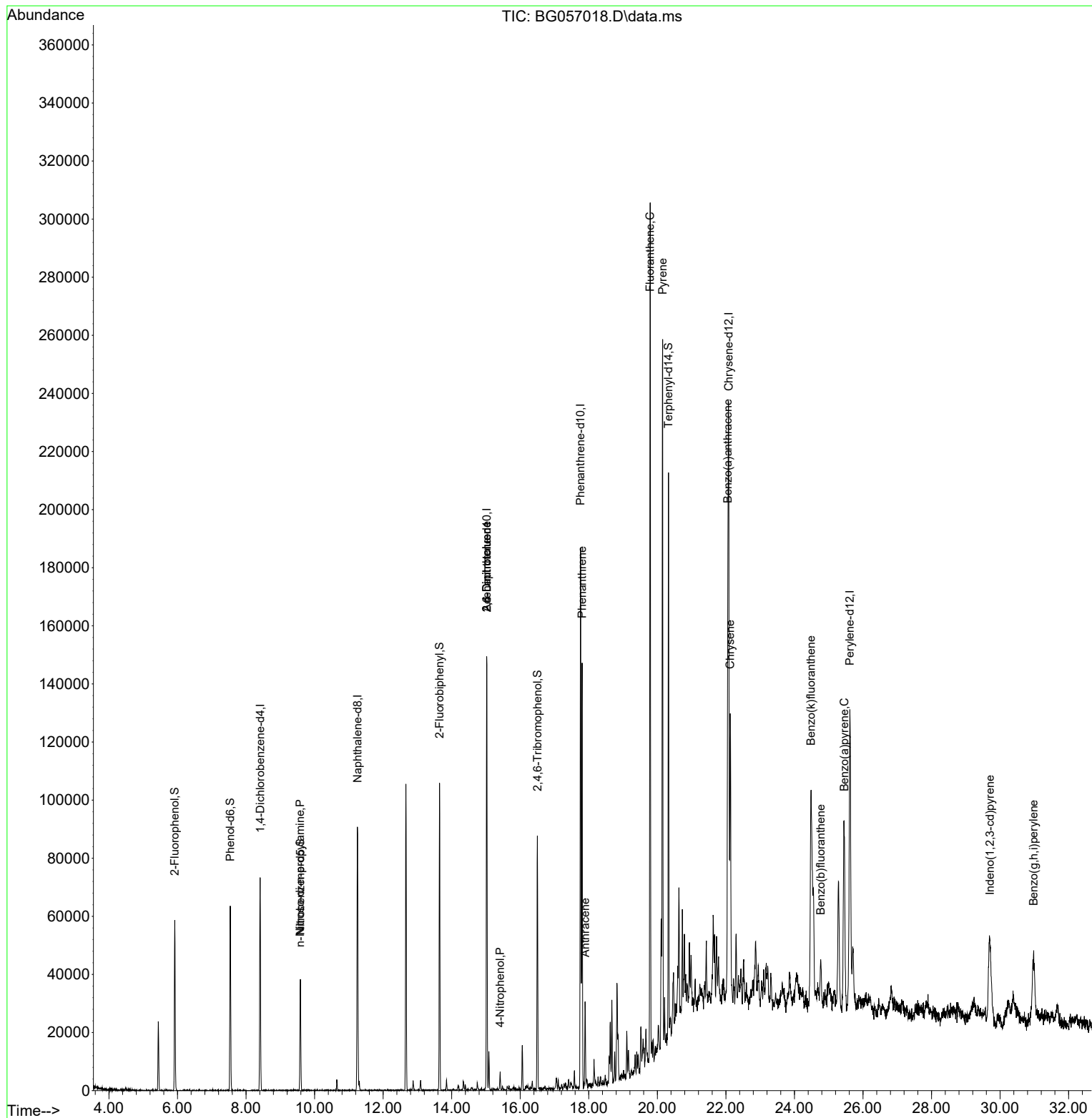
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.411  | 152  | 20064    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 11.248 | 136  | 75995    | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 15.019 | 164  | 55133    | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.757 | 188  | 123692   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 22.080 | 240  | 109986   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 25.617 | 264  | 117503   | 20.000 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.920  | 112  | 25182    | 20.087 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.541  | 99   | 36826    | 19.641 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.586  | 82   | 24313    | 13.091 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.500 | 330  | 17484    | 19.851 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.645 | 172  | 53081    | 13.055 | ng    | 0.00     |
| 79) Terphenyl-d14             | 20.324 | 244  | 85841    | 13.207 | ng    | 0.00     |
| Target Compounds              |        |      |          |        |       |          |
|                               |        |      |          |        |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 9.580  | 70   | 3086     | 2.301  | ng    | # 81     |
| 51) 2,6-Dinitrotoluene        | 15.019 | 165  | 7037     | 7.497  | ng    | # 23     |
| 56) 4-Nitrophenol             | 15.413 | 139  | 1636     | 2.381  | ng    | # 1      |
| 57) 2,4-Dinitrotoluene        | 15.019 | 165  | 7037     | 5.316  | ng    | # 24     |
| 71) Phenanthrene              | 17.804 | 178  | 90348    | 14.326 | ng    | 98       |
| 72) Anthracene                | 17.892 | 178  | 20011    | 3.095  | ng    | 98       |
| 75) Fluoranthene              | 19.789 | 202  | 186654   | 23.348 | ng    | 100      |
| 78) Pyrene                    | 20.154 | 202  | 161319   | 21.206 | ng    | 98       |
| 81) Benzo(a)anthracene        | 22.057 | 228  | 85609    | 11.248 | ng    | 99       |
| 83) Chrysene                  | 22.127 | 228  | 76101    | 10.679 | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene    | 29.700 | 276  | 55850    | 6.431  | ng    | # 95     |
| 88) Benzo(b)fluoranthene      | 24.765 | 252  | 15109    | 2.056  | ng    | 93       |
| 89) Benzo(k)fluoranthene      | 24.483 | 252  | 103544   | 14.115 | ng    | # 96     |
| 90) Benzo(a)pyrene            | 25.452 | 252  | 81723    | 11.318 | ng    | 99       |
| 92) Benzo(g,h,i)perylene      | 30.980 | 276  | 52982    | 7.580  | ng    | # 92     |
| -----                         |        |      |          |        |       |          |

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

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Operator : CG/JU  
Sample : 02126-06DL 5X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
RS-FDL

Quant Time: Apr 07 01:39:29 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG033023.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Apr 07 01:33:41 2023  
Response via : Initial Calibration

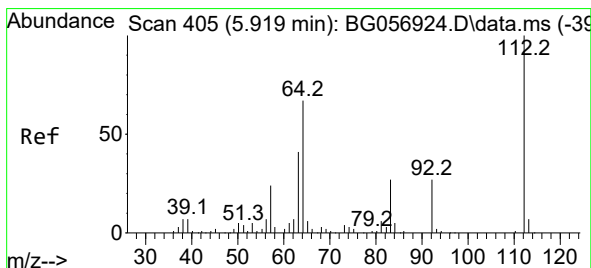
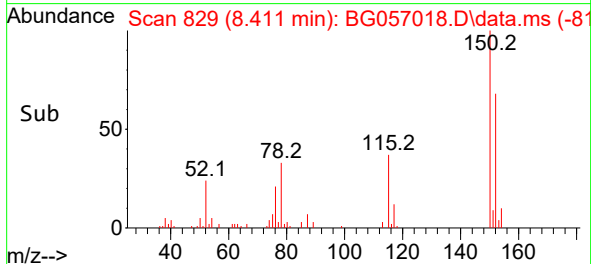
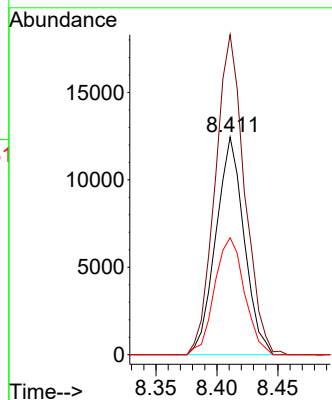
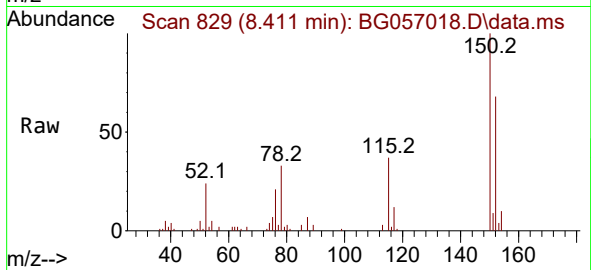




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.411 min Scan# 81  
Delta R.T. -0.002 min  
Lab File: BG057018.D  
Acq: 6 Apr 2023 19:01

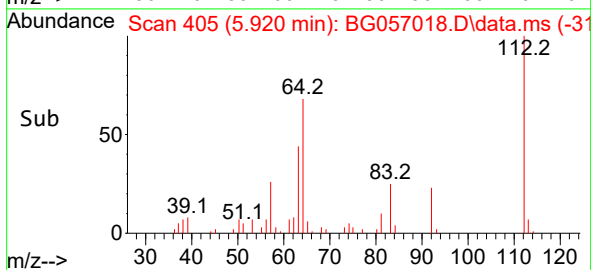
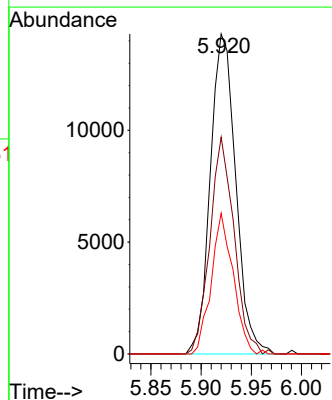
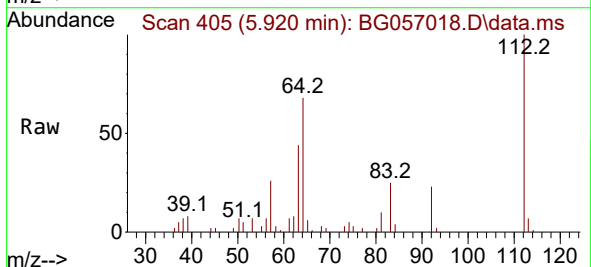
Instrument :  
BNA\_G  
ClientSampleId :  
RS-FDL

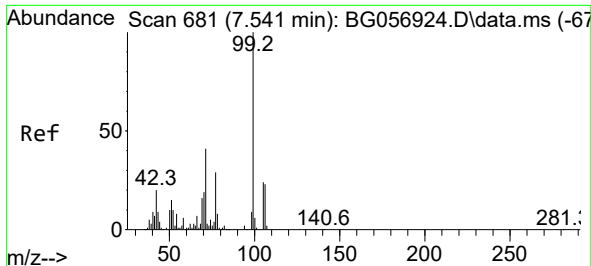
Tgt Ion:152 Resp: 20064  
Ion Ratio Lower Upper  
152 100  
150 147.0 124.1 186.1  
115 53.7 49.1 73.7



#5  
2-Fluorophenol  
Concen: 20.087 ng  
RT: 5.920 min Scan# 405  
Delta R.T. 0.003 min  
Lab File: BG057018.D  
Acq: 6 Apr 2023 19:01

Tgt Ion:112 Resp: 25182  
Ion Ratio Lower Upper  
112 100  
64 67.7 53.2 79.8  
63 43.9 32.6 48.8

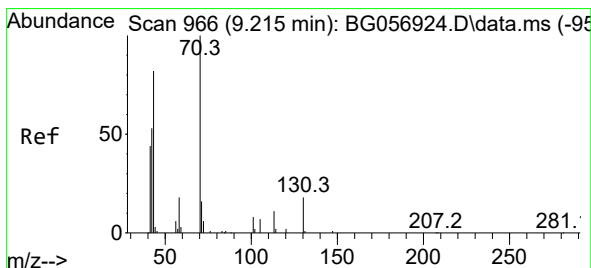
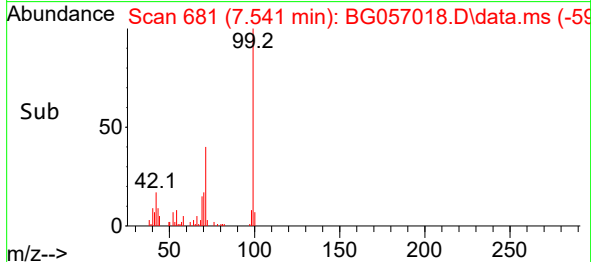
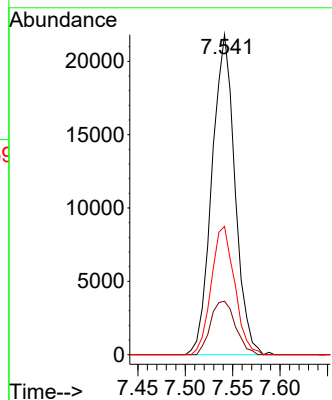
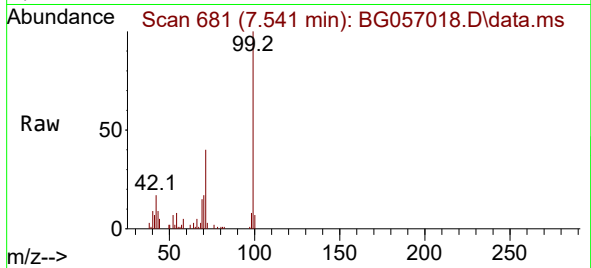




#7  
Phenol-d6  
Concen: 19.641 ng  
RT: 7.541 min Scan# 61  
Delta R.T. -0.002 min  
Lab File: BG057018.D  
Acq: 6 Apr 2023 19:01

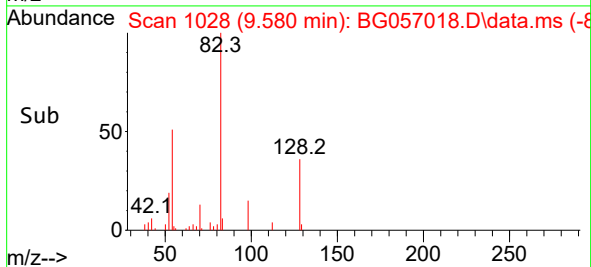
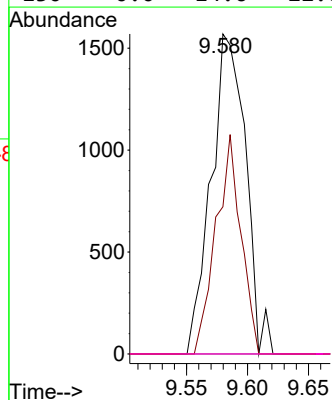
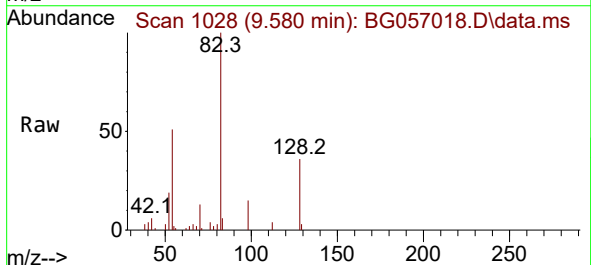
Instrument :  
BNA\_G  
ClientSampleId :  
RS-FDL

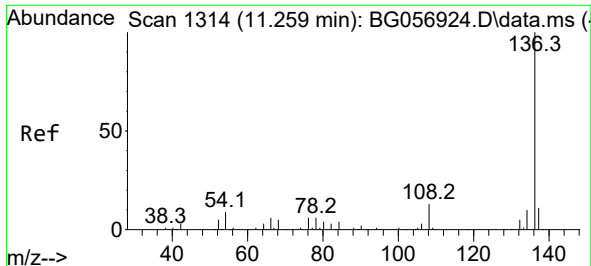
Tgt Ion: 99 Resp: 36826  
Ion Ratio Lower Upper  
99 100  
42 16.7 15.7 23.5  
71 40.1 32.5 48.7



#19  
n-Nitroso-di-n-propylamine  
Concen: 2.301 ng  
RT: 9.580 min Scan# 1028  
Delta R.T. 0.368 min  
Lab File: BG057018.D  
Acq: 6 Apr 2023 19:01

Tgt Ion: 70 Resp: 3086  
Ion Ratio Lower Upper  
70 100  
42 46.0 43.4 65.0  
101 0.0 6.2 9.2#  
130 0.0 14.6 22.0#

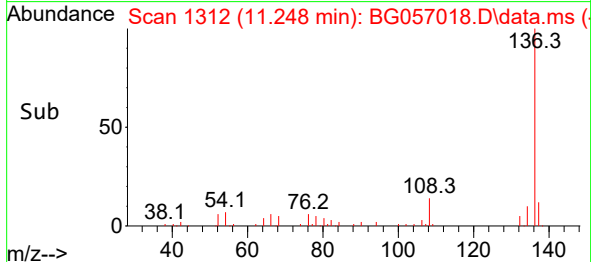
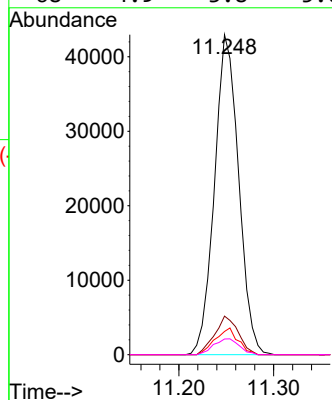
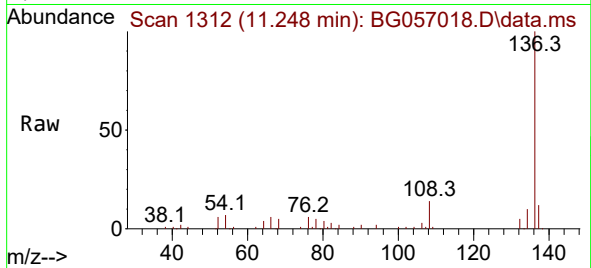




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.248 min Scan# 11  
Delta R.T. -0.002 min  
Lab File: BG057018.D  
Acq: 6 Apr 2023 19:01

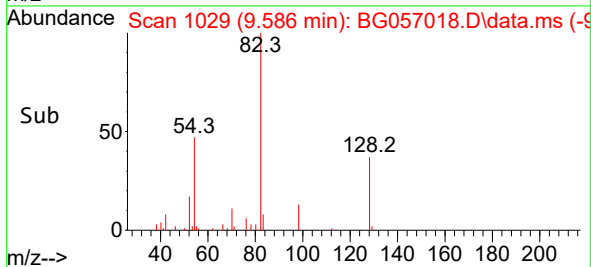
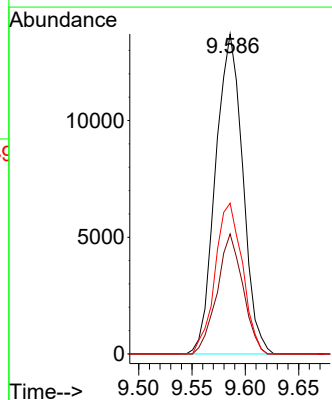
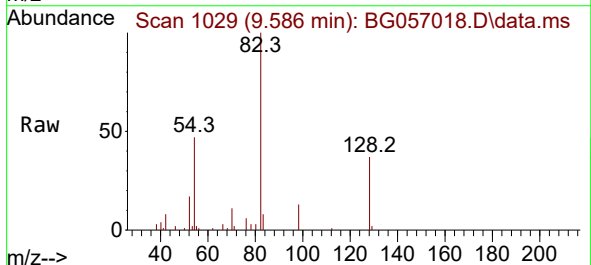
Instrument :  
BNA\_G  
ClientSampleId :  
RS-FDL

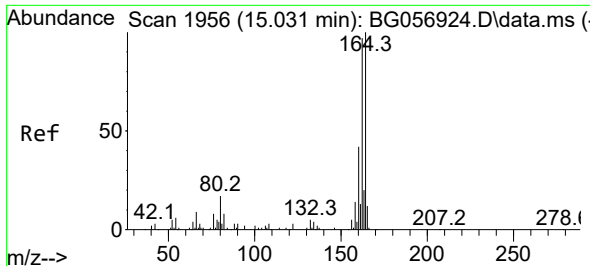
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 136   | Resp: | 75995 |
| Ion Ratio | Lower | Upper |       |
| 136       | 100   |       |       |
| 137       | 12.0  | 8.6   | 13.0  |
| 54        | 7.3   | 6.9   | 10.3  |
| 68        | 4.9   | 3.8   | 5.6   |



#23  
Nitrobenzene-d5  
Concen: 13.091 ng  
RT: 9.586 min Scan# 1029  
Delta R.T. -0.008 min  
Lab File: BG057018.D  
Acq: 6 Apr 2023 19:01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 82    | Resp: | 24313 |
| Ion Ratio | Lower | Upper |       |
| 82        | 100   |       |       |
| 128       | 37.5  | 27.9  | 41.9  |
| 54        | 47.1  | 39.4  | 59.2  |

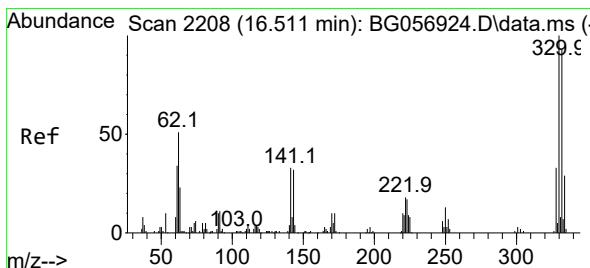
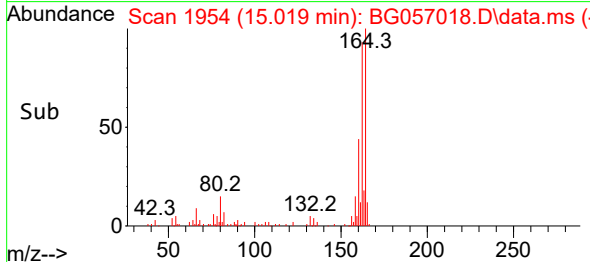
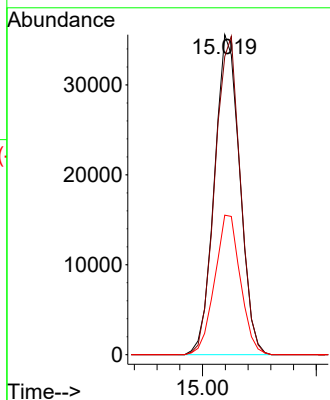
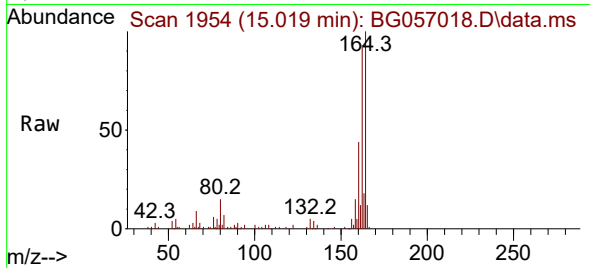




#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 15.019 min Scan# 1954  
Delta R.T. -0.008 min  
Lab File: BG057018.D  
Acq: 6 Apr 2023 19:01

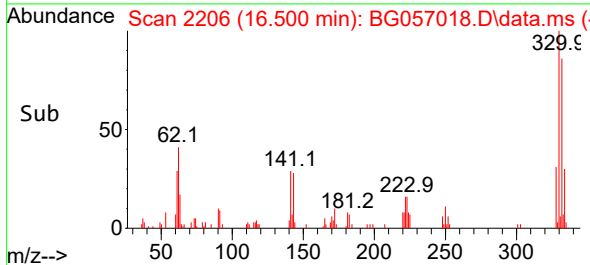
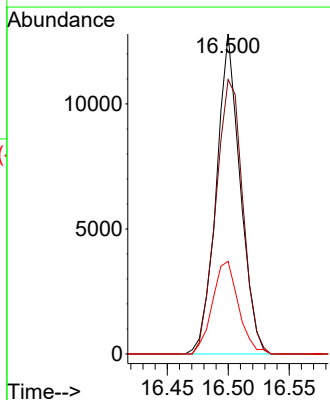
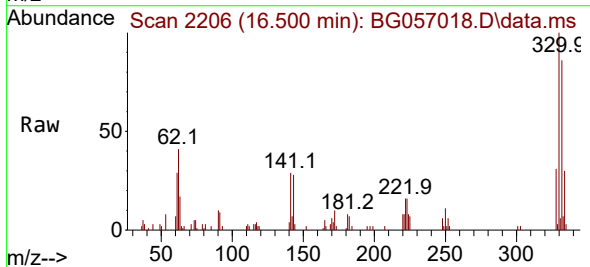
Instrument :  
BNA\_G  
ClientSampleId :  
RS-FDL

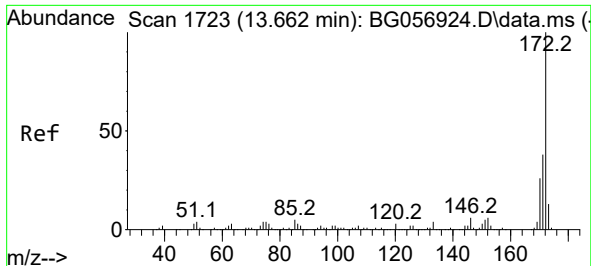
Tgt Ion:164 Resp: 55133  
Ion Ratio Lower Upper  
164 100  
162 93.1 77.8 116.8  
160 43.6 33.5 50.3



#42  
2,4,6-Tribromophenol  
Concen: 19.851 ng  
RT: 16.500 min Scan# 2206  
Delta R.T. -0.008 min  
Lab File: BG057018.D  
Acq: 6 Apr 2023 19:01

Tgt Ion:330 Resp: 17484  
Ion Ratio Lower Upper  
330 100  
332 96.5 76.1 114.1  
141 31.5 25.8 38.6

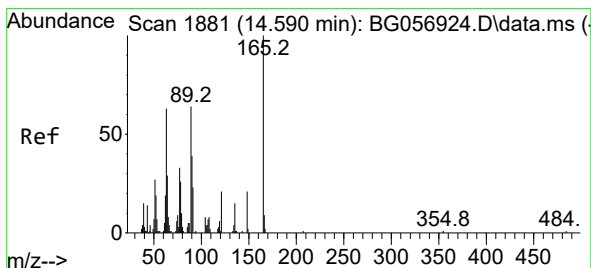
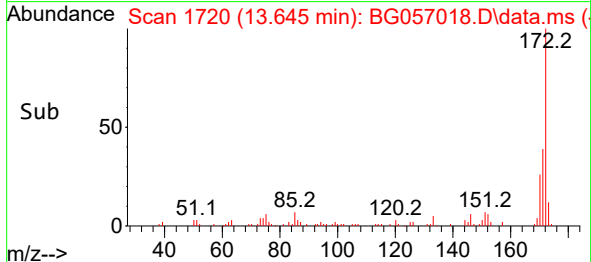
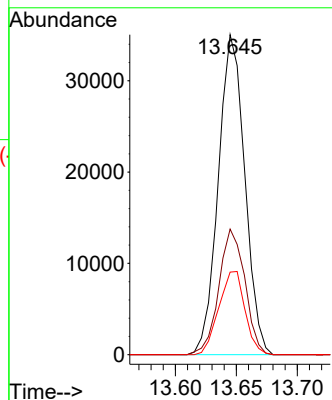
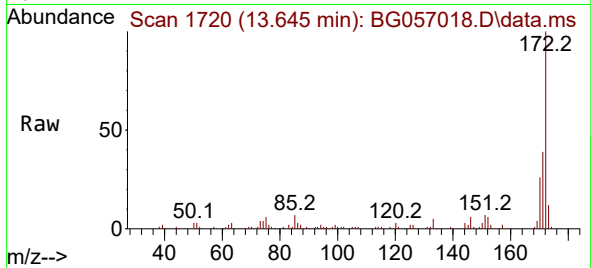




#45  
2-Fluorobiphenyl  
Concen: 13.055 ng  
RT: 13.645 min Scan# 11  
Delta R.T. -0.008 min  
Lab File: BG057018.D  
Acq: 6 Apr 2023 19:01

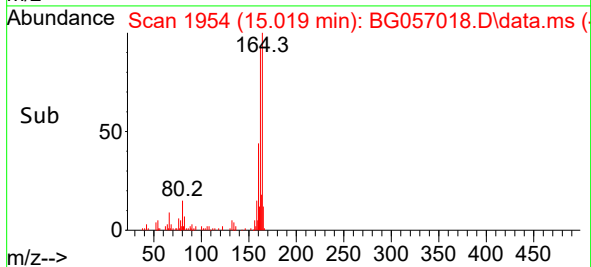
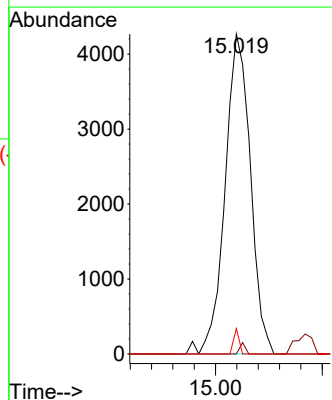
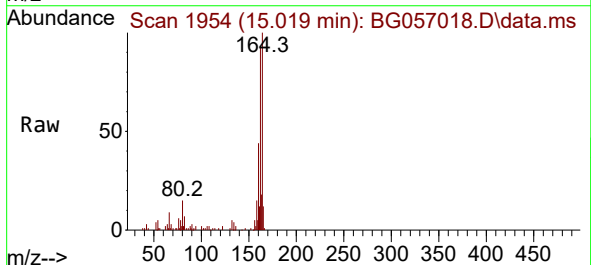
Instrument :  
BNA\_G  
ClientSampleId :  
RS-FDL

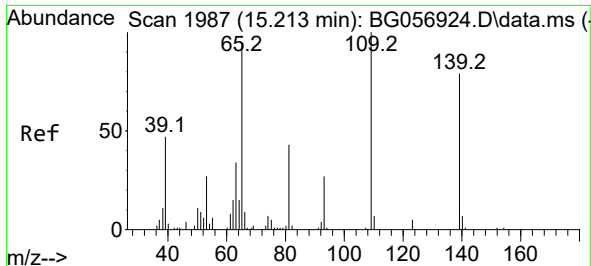
Tgt Ion:172 Resp: 53081  
Ion Ratio Lower Upper  
172 100  
171 39.3 30.6 46.0  
170 25.8 20.6 30.8



#51  
2,6-Dinitrotoluene  
Concen: 7.497 ng  
RT: 15.019 min Scan# 1954  
Delta R.T. 0.432 min  
Lab File: BG057018.D  
Acq: 6 Apr 2023 19:01

Tgt Ion:165 Resp: 7037  
Ion Ratio Lower Upper  
165 100  
63 0.0 53.0 79.6#  
89 7.9 51.0 76.4#

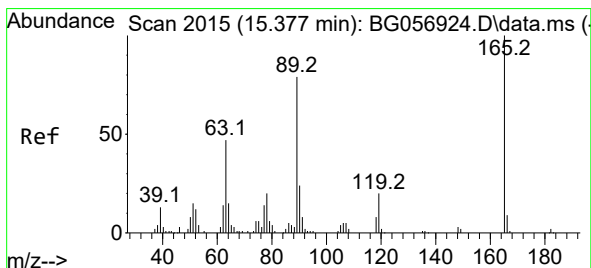
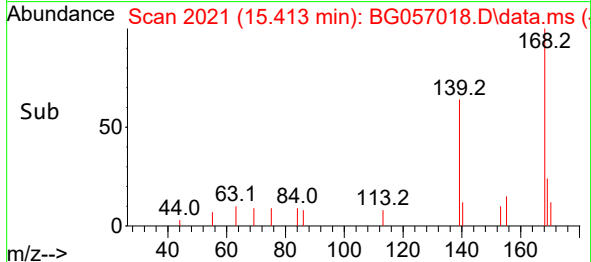
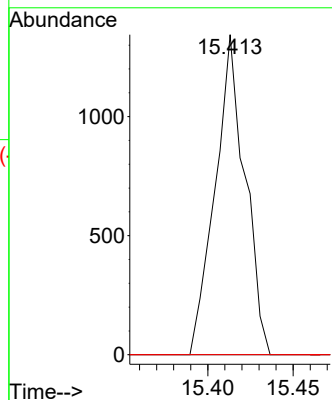
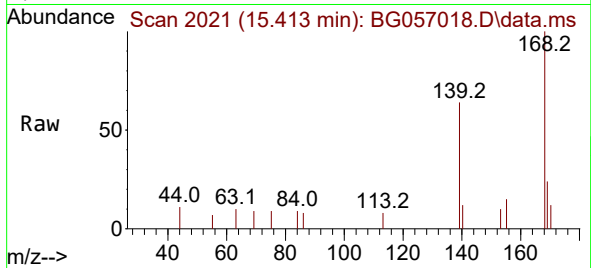




#56  
4-Nitrophenol  
Concen: 2.381 ng  
RT: 15.413 min Scan# 2011  
Delta R.T. 0.203 min  
Lab File: BG057018.D  
Acq: 6 Apr 2023 19:01

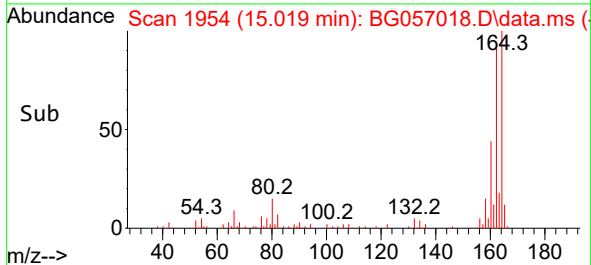
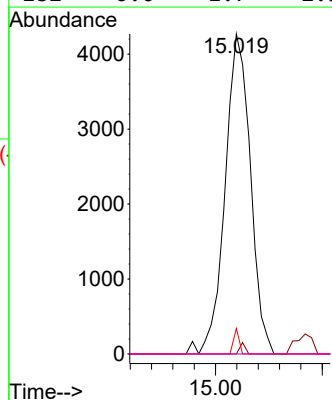
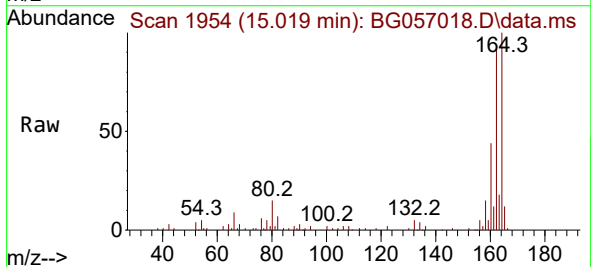
Instrument :  
BNA\_G  
ClientSampleId :  
RS-FDL

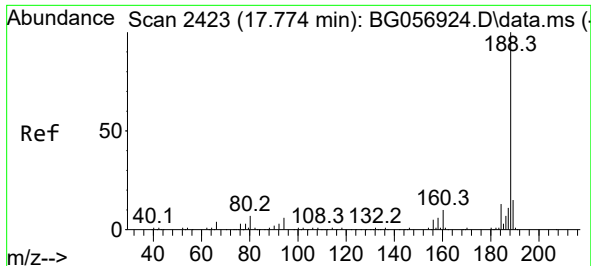
Tgt Ion:139 Resp: 1636  
Ion Ratio Lower Upper  
139 100  
109 0.0 106.7 146.7#  
65 0.0 100.5 140.5#



#57  
2,4-Dinitrotoluene  
Concen: 5.316 ng  
RT: 15.019 min Scan# 1954  
Delta R.T. -0.355 min  
Lab File: BG057018.D  
Acq: 6 Apr 2023 19:01

Tgt Ion:165 Resp: 7037  
Ion Ratio Lower Upper  
165 100  
63 0.0 37.7 56.5#  
89 7.9 63.2 94.8#  
182 0.0 1.7 2.5#

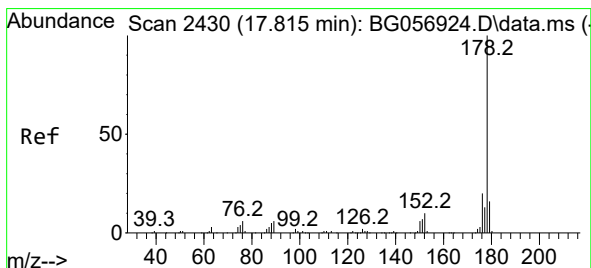
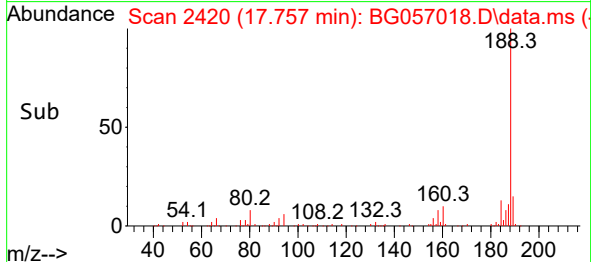
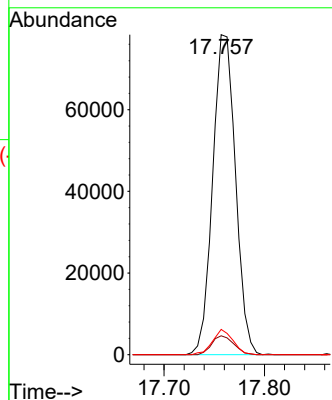
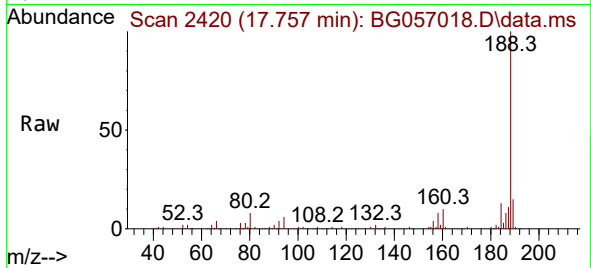




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.757 min Scan# 2420  
Delta R.T. -0.008 min  
Lab File: BG057018.D  
Acq: 6 Apr 2023 19:01

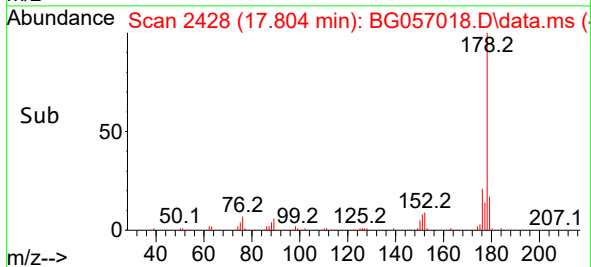
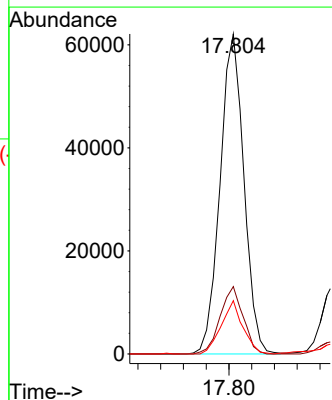
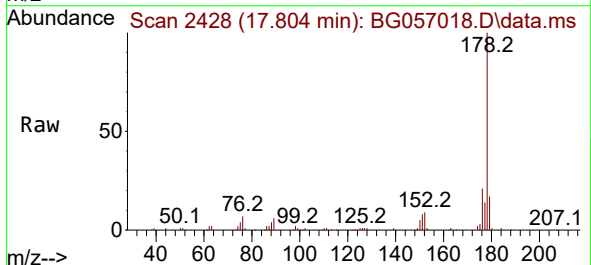
Instrument :  
BNA\_G  
ClientSampleId :  
RS-FDL

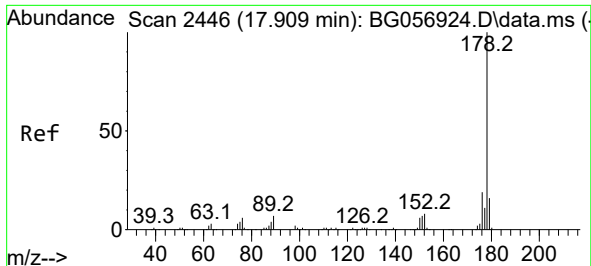
Tgt Ion:188 Resp: 123692  
Ion Ratio Lower Upper  
188 100  
94 5.9 4.6 6.8  
80 7.9 5.5 8.3



#71  
Phenanthrene  
Concen: 14.326 ng  
RT: 17.804 min Scan# 2428  
Delta R.T. -0.002 min  
Lab File: BG057018.D  
Acq: 6 Apr 2023 19:01

Tgt Ion:178 Resp: 90348  
Ion Ratio Lower Upper  
178 100  
176 21.0 16.2 24.2  
179 16.7 12.5 18.7

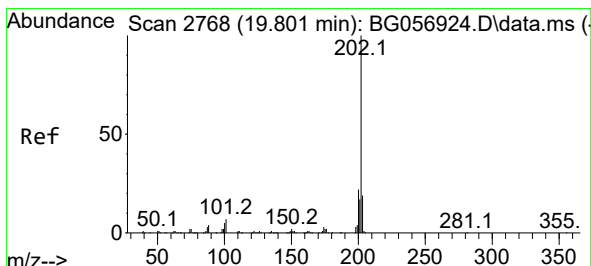
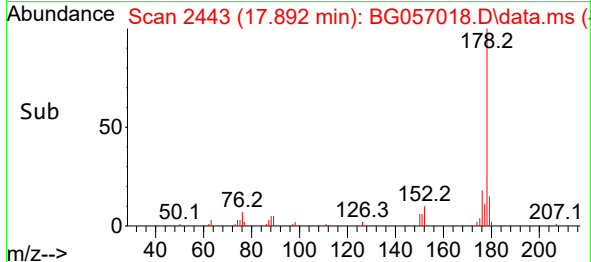
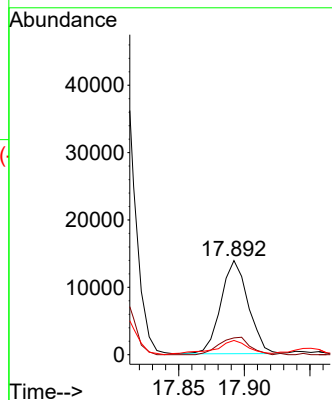
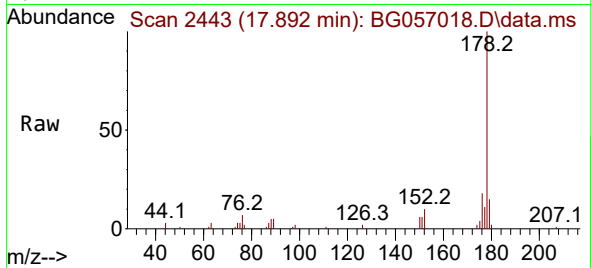




#72  
 Anthracene  
 Concen: 3.095 ng  
 RT: 17.892 min Scan# 2443  
 Delta R.T. -0.008 min  
 Lab File: BG057018.D  
 Acq: 6 Apr 2023 19:01

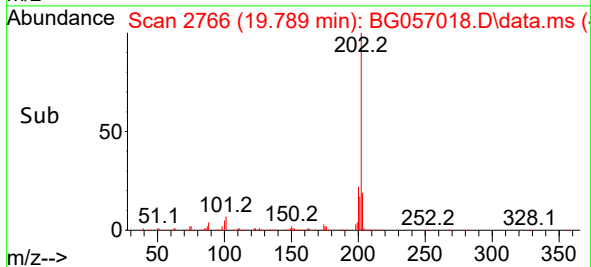
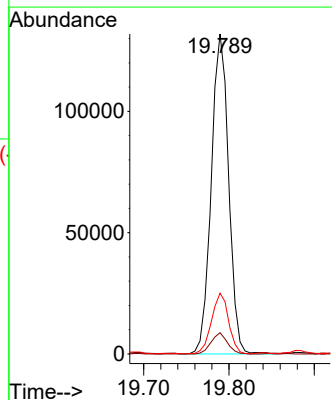
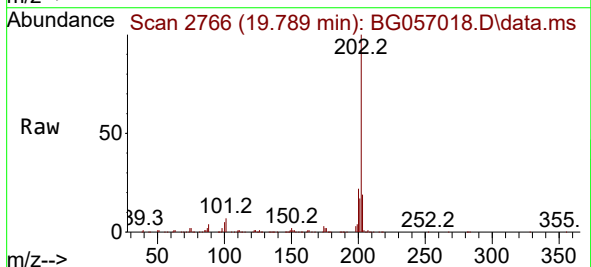
Instrument :  
 BNA\_G  
 ClientSampleId :  
 RS-FDL

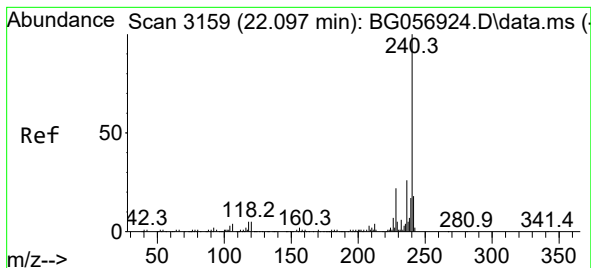
Tgt Ion:178 Resp: 20011  
 Ion Ratio Lower Upper  
 178 100  
 176 17.9 15.4 23.2  
 179 15.1 12.4 18.6



#75  
 Fluoranthene  
 Concen: 23.348 ng  
 RT: 19.789 min Scan# 2766  
 Delta R.T. -0.002 min  
 Lab File: BG057018.D  
 Acq: 6 Apr 2023 19:01

Tgt Ion:202 Resp: 186654  
 Ion Ratio Lower Upper  
 202 100  
 101 6.6 0.0 26.7  
 203 19.0 0.0 39.0





#76

Chrysene-d12

Concen: 20.000 ng

RT: 22.080 min Scan# 3156

Delta R.T. -0.008 min

Lab File: BG057018.D

Acq: 6 Apr 2023 19:01

Instrument :

BNA\_G

ClientSampleId :

RS-FDL

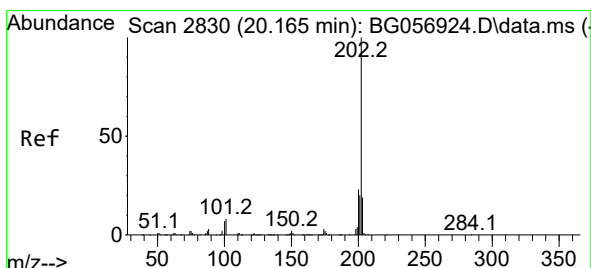
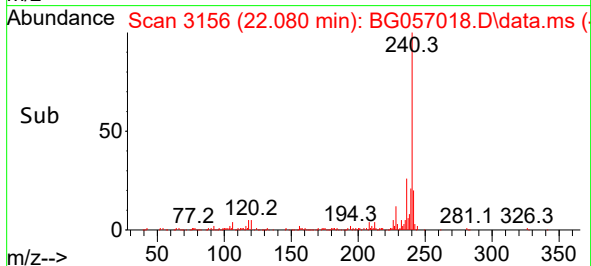
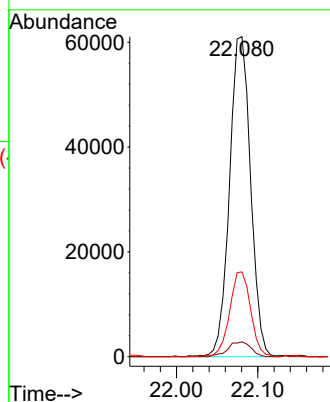
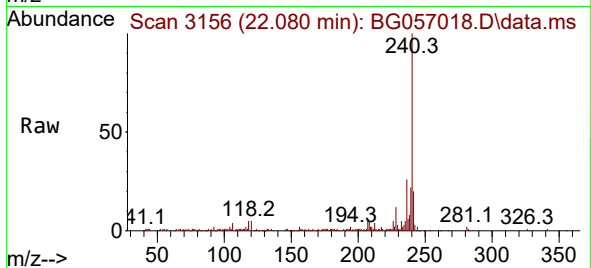
Tgt Ion:240 Resp: 109986

Ion Ratio Lower Upper

240 100

120 4.7 3.8 5.6

236 26.5 21.0 31.6



#78

Pyrene

Concen: 21.206 ng

RT: 20.154 min Scan# 2828

Delta R.T. 0.004 min

Lab File: BG057018.D

Acq: 6 Apr 2023 19:01

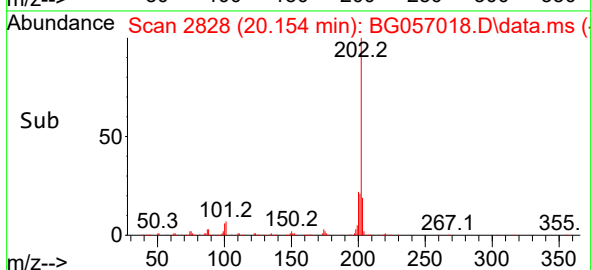
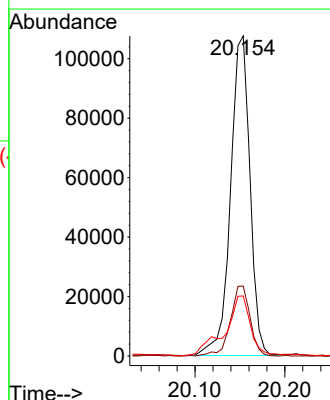
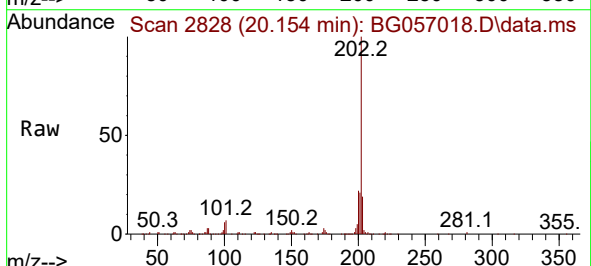
Tgt Ion:202 Resp: 161319

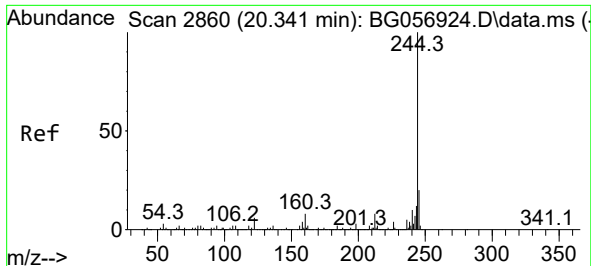
Ion Ratio Lower Upper

202 100

200 21.9 18.7 28.1

203 18.7 15.4 23.2

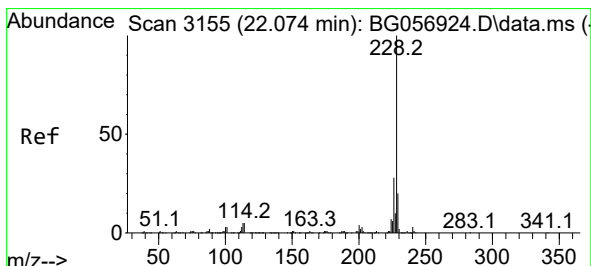
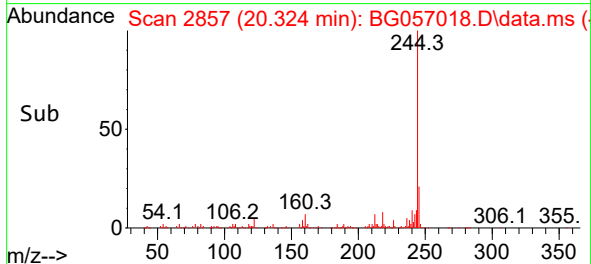
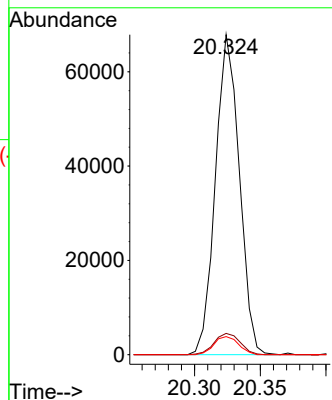
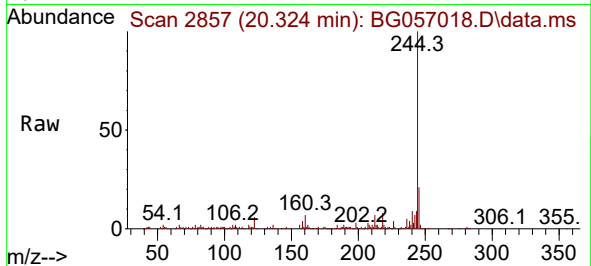




#79  
 Terphenyl-d14  
 Concen: 13.207 ng  
 RT: 20.324 min Scan# 2857  
 Delta R.T. -0.008 min  
 Lab File: BG057018.D  
 Acq: 6 Apr 2023 19:01

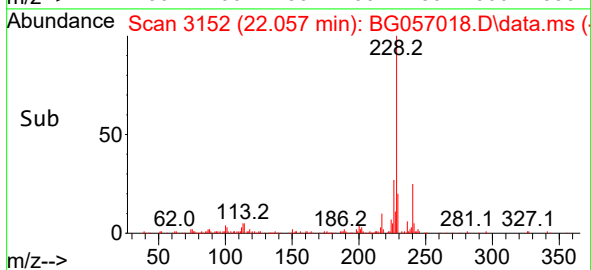
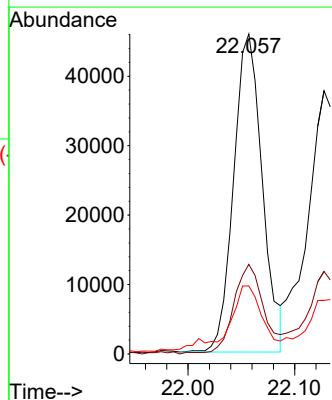
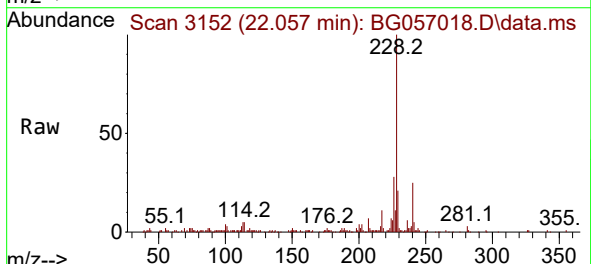
Instrument :  
 BNA\_G  
 ClientSampleId :  
 RS-FDL

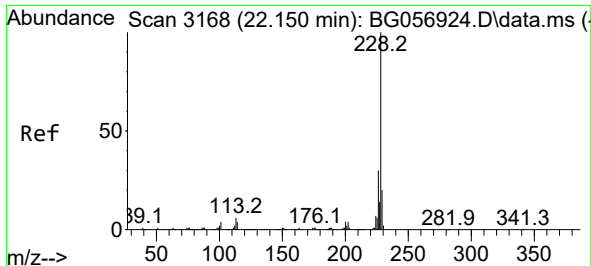
Tgt Ion:244 Resp: 85841  
 Ion Ratio Lower Upper  
 244 100  
 212 6.7 6.1 9.1  
 122 5.6 5.0 7.4



#81  
 Benzo(a)anthracene  
 Concen: 11.248 ng  
 RT: 22.057 min Scan# 3152  
 Delta R.T. -0.008 min  
 Lab File: BG057018.D  
 Acq: 6 Apr 2023 19:01

Tgt Ion:228 Resp: 85609  
 Ion Ratio Lower Upper  
 228 100  
 226 28.0 22.1 33.1  
 229 21.3 16.1 24.1

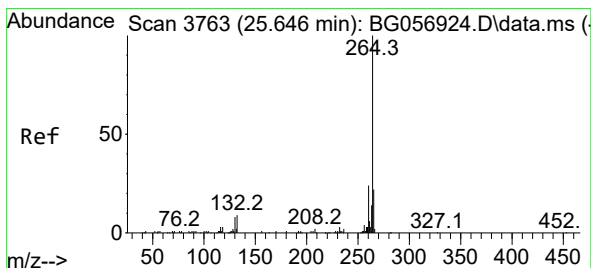
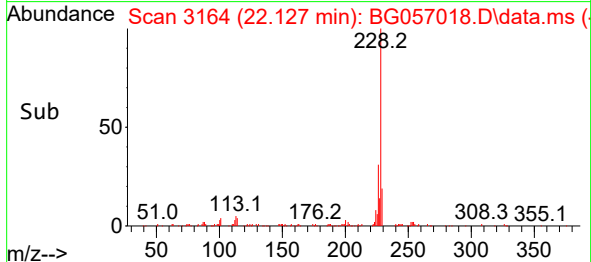
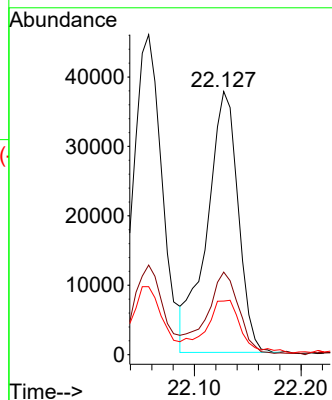
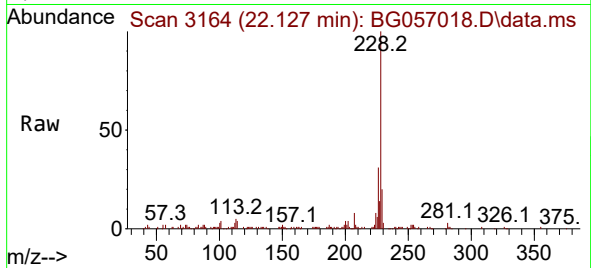




#83  
Chrysene  
Concen: 10.679 ng  
RT: 22.127 min Scan# 3164  
Delta R.T. -0.008 min  
Lab File: BG057018.D  
Acq: 6 Apr 2023 19:01

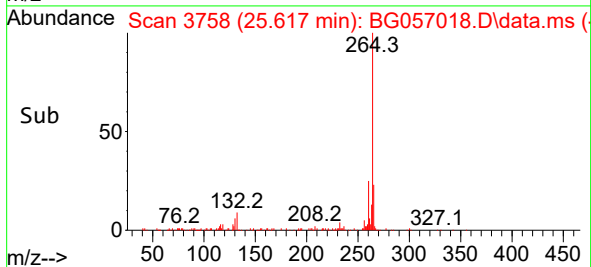
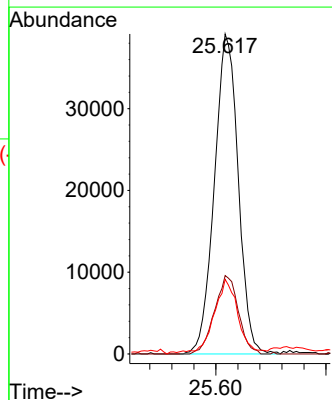
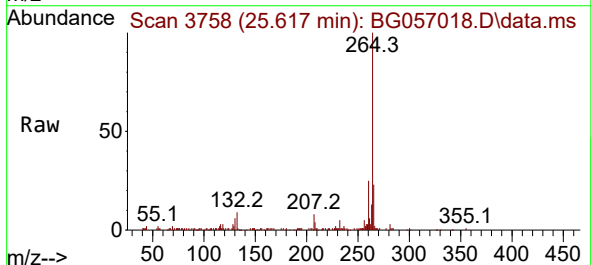
Instrument :  
BNA\_G  
ClientSampleId :  
RS-FDL

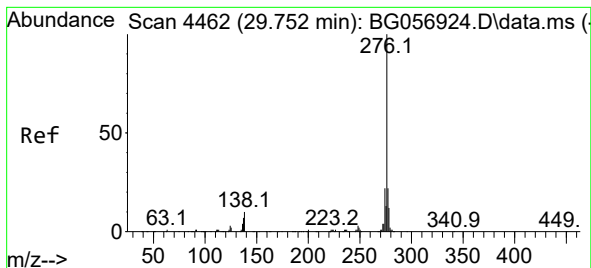
Tgt Ion:228 Resp: 76101  
Ion Ratio Lower Upper  
228 100  
226 31.4 24.1 36.1  
229 20.4 15.6 23.4



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 25.617 min Scan# 3758  
Delta R.T. -0.008 min  
Lab File: BG057018.D  
Acq: 6 Apr 2023 19:01

Tgt Ion:264 Resp: 117503  
Ion Ratio Lower Upper  
264 100  
260 24.5 19.0 28.4  
265 23.3 17.8 26.6





#87

Indeno(1,2,3-cd)pyrene

Concen: 6.431 ng

RT: 29.700 min Scan# 4462

Delta R.T. -0.026 min

Lab File: BG057018.D

Acq: 6 Apr 2023 19:01

Instrument :

BNA\_G

ClientSampleId :

RS-FDL

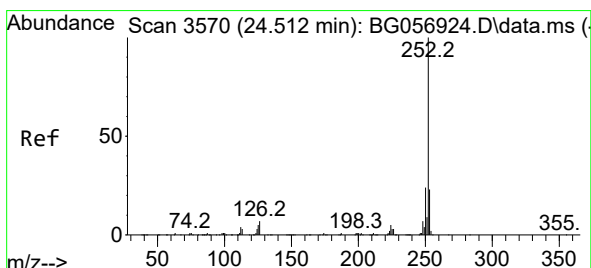
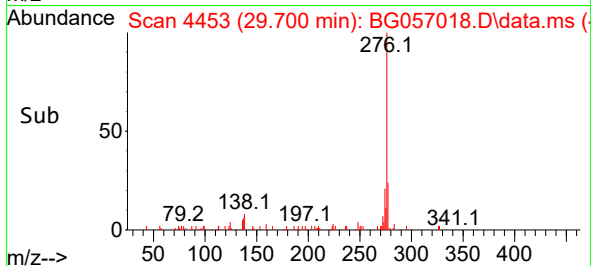
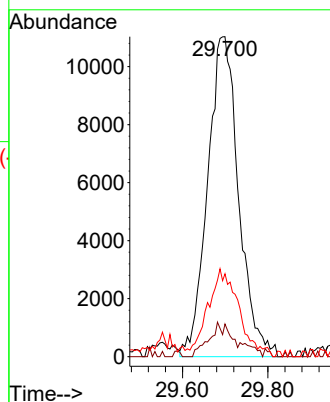
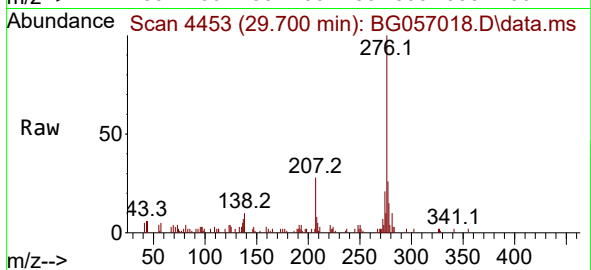
Tgt Ion:276 Resp: 55850

Ion Ratio Lower Upper

276 100

138 4.6 7.7 11.5#

277 27.2 21.0 31.4



#88

Benzo(b)fluoranthene

Concen: 2.056 ng

RT: 24.765 min Scan# 3613

Delta R.T. 0.274 min

Lab File: BG057018.D

Acq: 6 Apr 2023 19:01

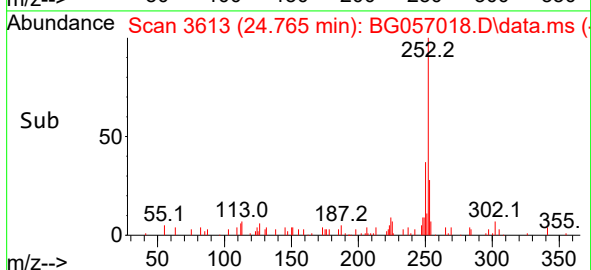
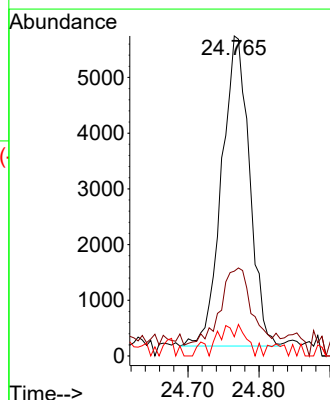
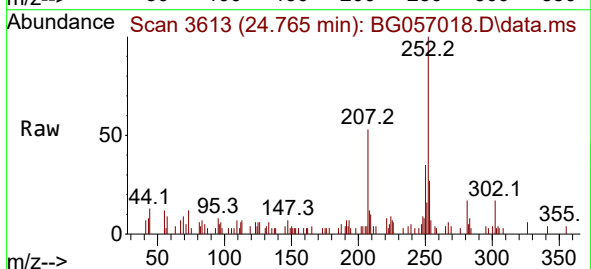
Tgt Ion:252 Resp: 15109

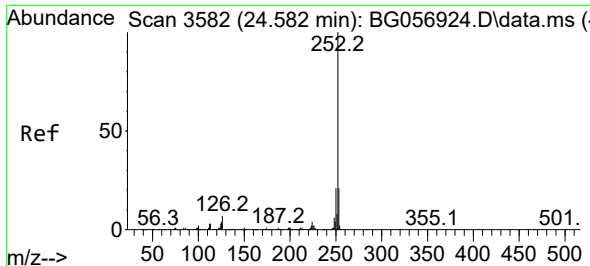
Ion Ratio Lower Upper

252 100

253 26.5 18.1 27.1

125 6.0 4.2 6.4

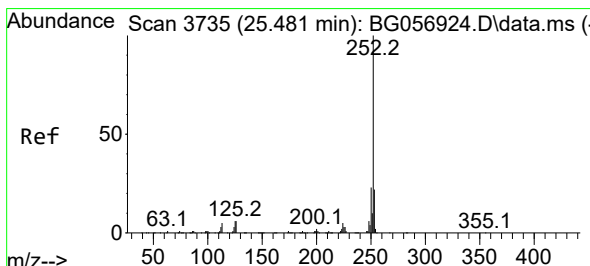
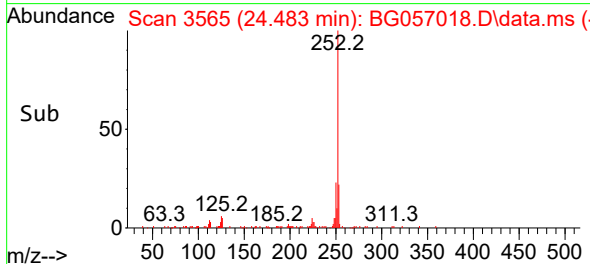
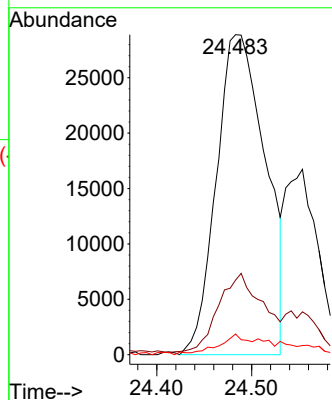
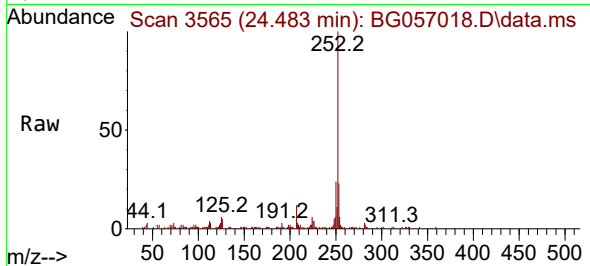




#89  
Benzo(k)fluoranthene  
Concen: 14.115 ng  
RT: 24.483 min Scan# 31  
Delta R.T. -0.085 min  
Lab File: BG057018.D  
Acq: 6 Apr 2023 19:01

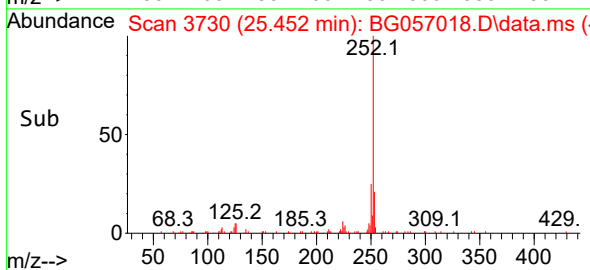
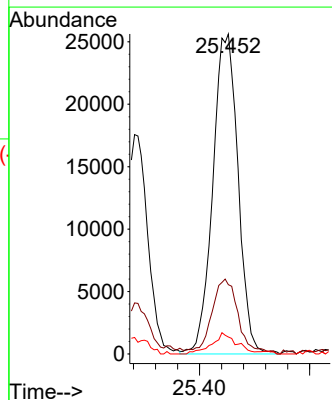
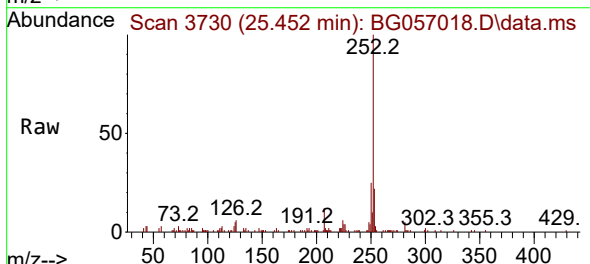
Instrument :  
BNA\_G  
ClientSampleId :  
RS-FDL

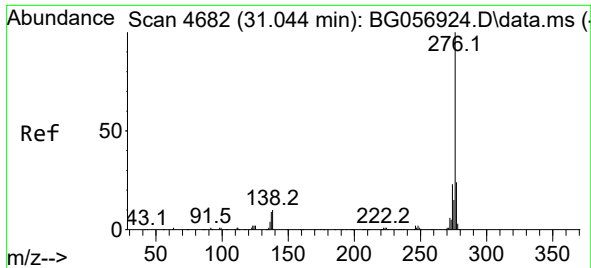
Tgt Ion:252 Resp: 103544  
Ion Ratio Lower Upper  
252 100  
253 23.3 17.1 25.7  
125 6.5 3.8 5.6#



#90  
Benzo(a)pyrene  
Concen: 11.318 ng  
RT: 25.452 min Scan# 3730  
Delta R.T. -0.008 min  
Lab File: BG057018.D  
Acq: 6 Apr 2023 19:01

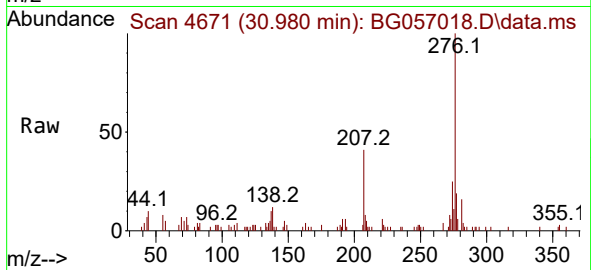
Tgt Ion:252 Resp: 81723  
Ion Ratio Lower Upper  
252 100  
253 21.6 17.6 26.4  
125 5.3 4.5 6.7





#92  
 Benzo(g,h,i)perylene  
 Concen: 7.580 ng  
 RT: 30.980 min Scan# 4  
 Delta R.T. -0.032 min  
 Lab File: BG057018.D  
 Acq: 6 Apr 2023 19:01

Instrument :  
 BNA\_G  
 ClientSampleId :  
 RS-FDL



Tgt Ion:276 Resp: 52982  
 Ion Ratio Lower Upper  
 276 100  
 277 19.1 19.1 28.7#  
 138 12.1 8.2 12.2

