

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040622\  
 Data File : BG053058.D  
 Acq On : 6 Apr 2022 17:08  
 Operator : CG/JU  
 Sample : N2257-07  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 TP-4

Quant Time: Apr 06 18:06:21 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG031522.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Apr 06 14:35:39 2022  
 Response via : Initial Calibration

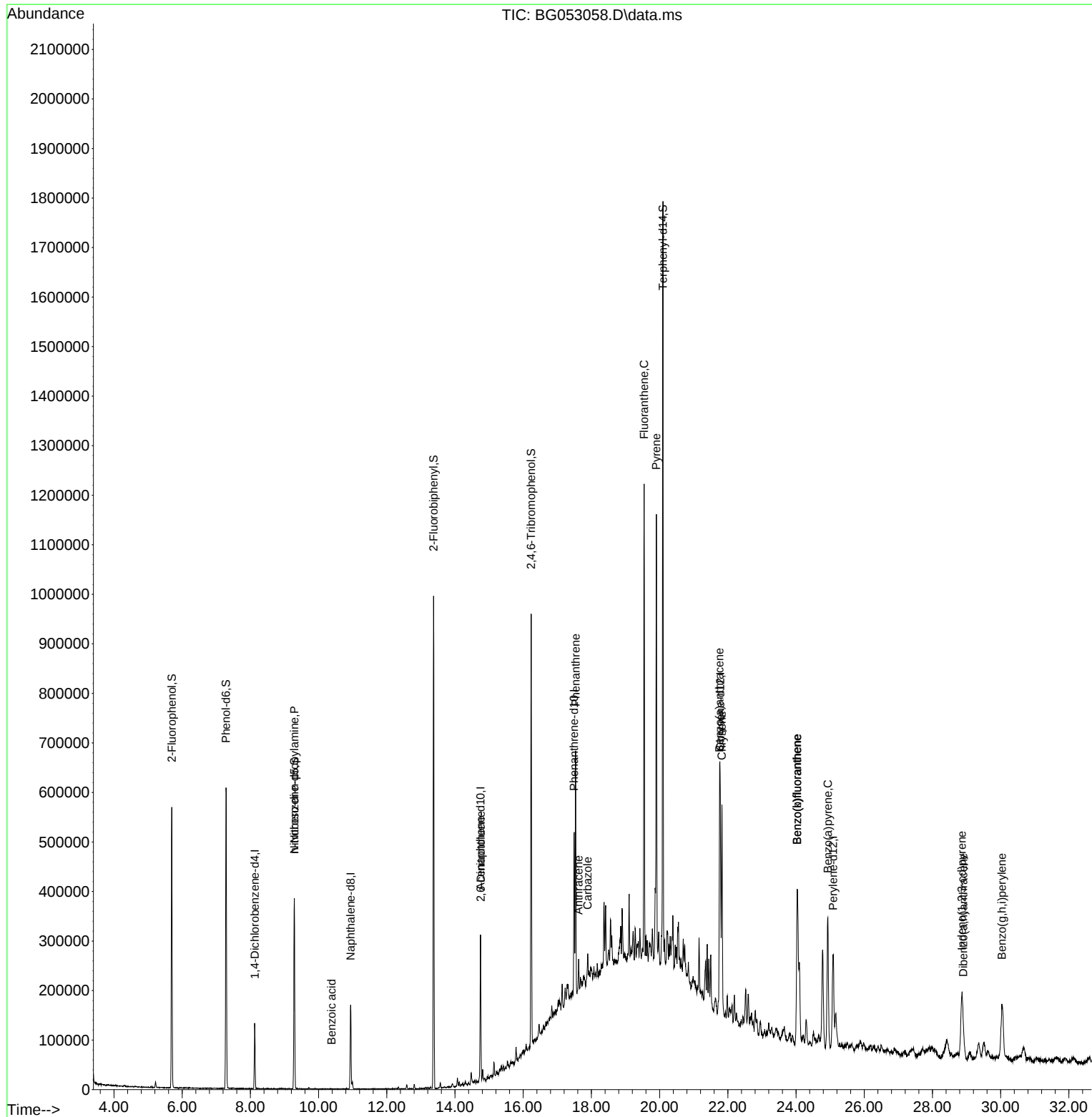
| Compound                      | R.T.   | QIon | Response | Conc      | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-----------|-------|----------|
| -----                         |        |      |          |           |       |          |
| Internal Standards            |        |      |          |           |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.126  | 152  | 34925    | 20.000    | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.940 | 136  | 142761   | 20.000    | ng    | # 0.00   |
| 39) Acenaphthene-d10          | 14.746 | 164  | 105062   | 20.000    | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.490 | 188  | 210025   | 20.000    | ng    | 0.00     |
| 76) Chrysene-d12              | 21.778 | 240  | 203025   | 20.000    | ng    | 0.00     |
| 86) Perylene-d12              | 25.085 | 264  | 217978   | 20.000    | ng    | # 0.00   |
|                               |        |      |          |           |       |          |
| System Monitoring Compounds   |        |      |          |           |       |          |
| 5) 2-Fluorophenol             | 5.694  | 112  | 222586   | 110.991   | ng    | 0.00     |
| 7) Phenol-d6                  | 7.286  | 99   | 337087   | 111.492   | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.289  | 82   | 243024   | 85.440    | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.233 | 330  | 167303   | 118.507   | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.372 | 172  | 519966   | 72.992    | ng    | 0.00     |
| 79) Terphenyl-d14             | 20.098 | 244  | 774118   | 67.826    | ng    | 0.00     |
|                               |        |      |          |           |       |          |
| Target Compounds              |        |      |          |           |       | Qvalue   |
| 9) Benzaldehyde               | 7.256  | 77   | 89       | Below Cal | #     | 5        |
| 19) n-Nitroso-di-n-propyla... | 9.289  | 70   | 34264    | 16.001    | ng    | # 76     |
| 32) Benzoic acid              | 10.382 | 122  | 58       | 5.707     | ng    | # 1      |
| 51) 2,6-Dinitrotoluene        | 14.752 | 165  | 14628    | 11.096    | ng    | # 25     |
| 71) Phenanthrene              | 17.537 | 178  | 306268   | 27.258    | ng    | 99       |
| 72) Anthracene                | 17.625 | 178  | 43653    | 3.930     | ng    | 98       |
| 73) Carbazole                 | 17.889 | 167  | 31823    | 2.893     | ng    | 94       |
| 75) Fluoranthene              | 19.546 | 202  | 609782   | 42.755    | ng    | 98       |
| 78) Pyrene                    | 19.904 | 202  | 594464   | 42.211    | ng    | 99       |
| 81) Benzo(a)anthracene        | 21.754 | 228  | 286905   | 21.104    | ng    | 99       |
| 83) Chrysene                  | 21.825 | 228  | 323134   | 25.283    | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene    | 28.862 | 276  | 246469   | 16.519    | ng    | 99       |
| 88) Benzo(b)fluoranthene      | 24.034 | 252  | 431646   | 31.893    | ng    | 95       |
| 89) Benzo(k)fluoranthene      | 24.034 | 252  | 431646   | 32.415    | ng    | 96       |
| 90) Benzo(a)pyrene            | 24.933 | 252  | 313883   | 27.398    | ng    | 100      |
| 91) Dibenzo(a,h)anthracene    | 28.904 | 278  | 60986    | 4.961     | ng    | 97       |
| 92) Benzo(g,h,i)perylene      | 30.037 | 276  | 243647   | 20.030    | ng    | 97       |
| -----                         |        |      |          |           |       |          |

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

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BNA\_G  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Apr 06 14:35:39 2022  
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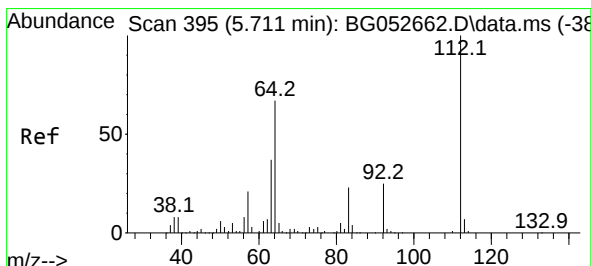
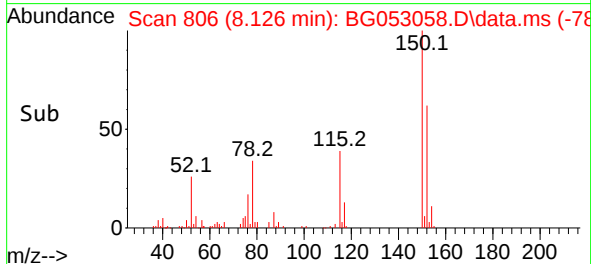
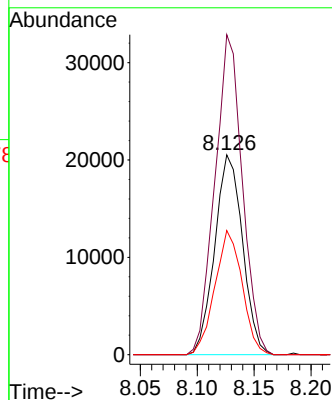
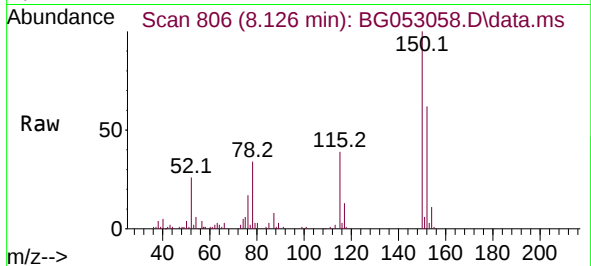




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.126 min Scan# 80  
Delta R.T. -0.002 min  
Lab File: BG053058.D  
Acq: 6 Apr 2022 17:08

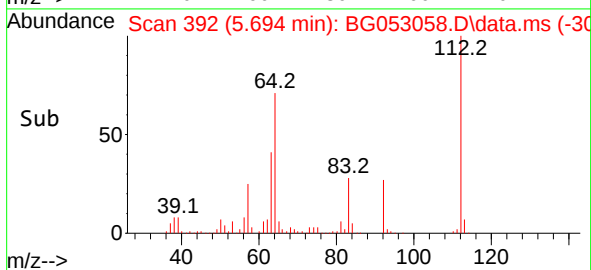
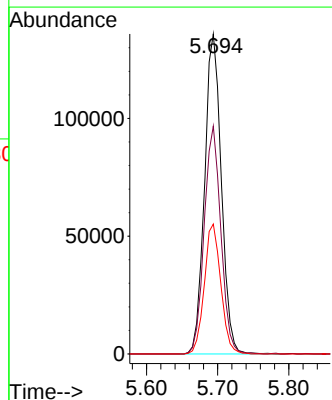
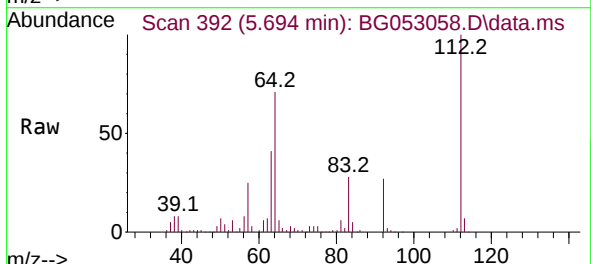
Instrument :  
BNA\_G  
ClientSampleId :  
TP-4

Tgt Ion:152 Resp: 34925  
Ion Ratio Lower Upper  
152 100  
150 160.1 114.6 172.0  
115 62.1 45.9 68.9



#5  
2-Fluorophenol  
Concen: 110.991 ng  
RT: 5.694 min Scan# 392  
Delta R.T. 0.010 min  
Lab File: BG053058.D  
Acq: 6 Apr 2022 17:08

Tgt Ion:112 Resp: 222586  
Ion Ratio Lower Upper  
112 100  
64 71.2 48.0 72.0  
63 40.6 26.5 39.7#

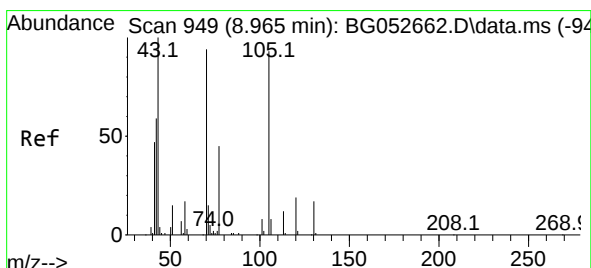
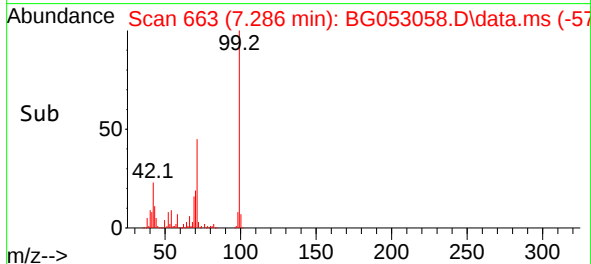
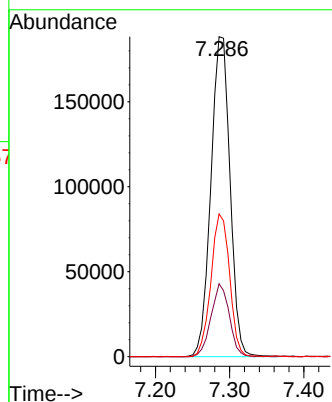
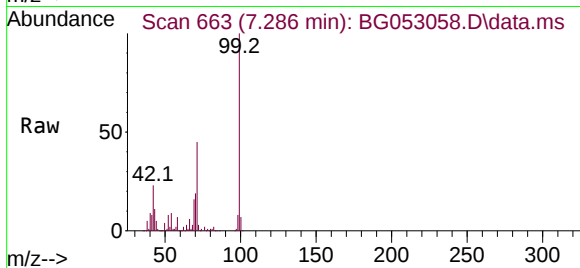




#7  
Phenol-d6  
Concen: 111.492 ng  
RT: 7.286 min Scan# 60  
Delta R.T. 0.004 min  
Lab File: BG053058.D  
Acq: 6 Apr 2022 17:08

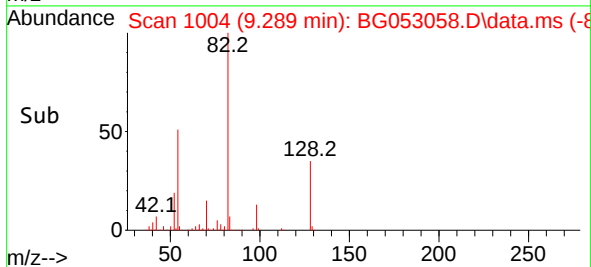
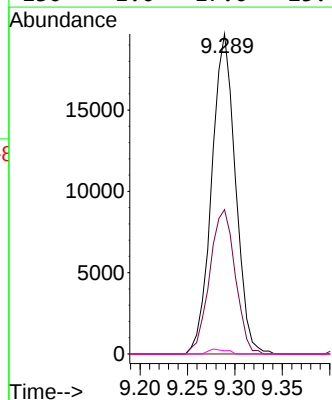
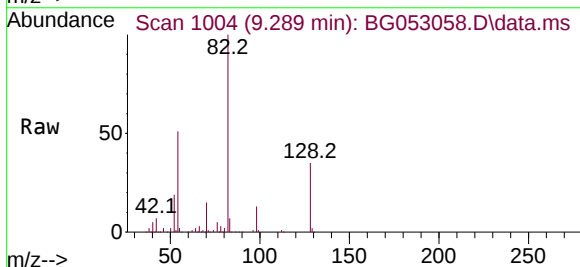
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BNA\_G  
ClientSampleId :  
TP-4

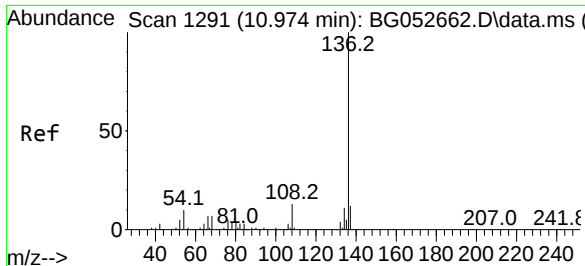
Tgt Ion: 99 Resp: 337087  
Ion Ratio Lower Upper  
99 100  
42 22.8 14.7 22.1#  
71 44.6 29.2 43.8#



#19  
n-Nitroso-di-n-propylamine  
Concen: 16.001 ng  
RT: 9.289 min Scan# 1004  
Delta R.T. 0.362 min  
Lab File: BG053058.D  
Acq: 6 Apr 2022 17:08

Tgt Ion: 70 Resp: 34264  
Ion Ratio Lower Upper  
70 100  
42 45.1 46.0 69.0#  
101 0.0 6.2 9.4#  
130 1.0 17.0 25.4#

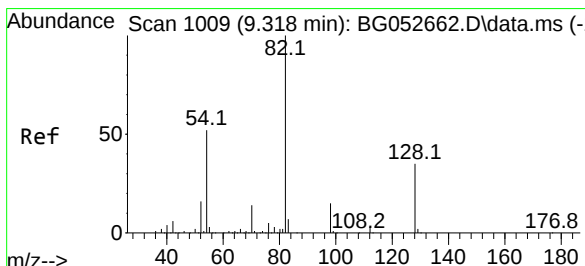
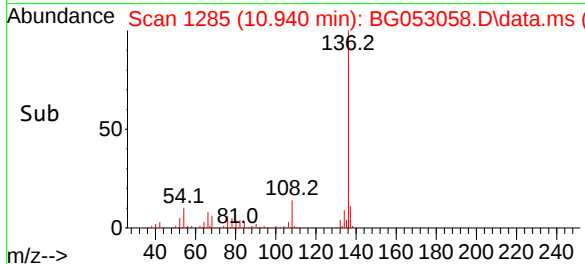
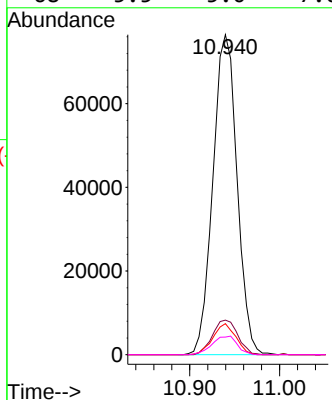
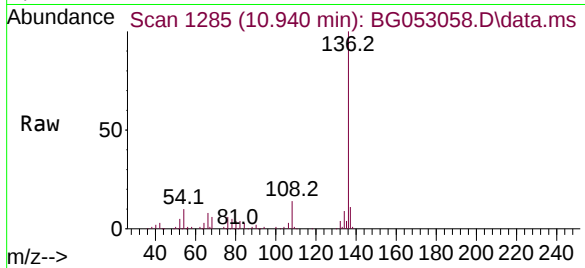




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.940 min Scan# 11  
Delta R.T. -0.002 min  
Lab File: BG053058.D  
Acq: 6 Apr 2022 17:08

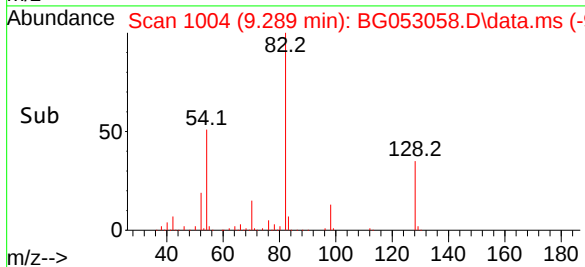
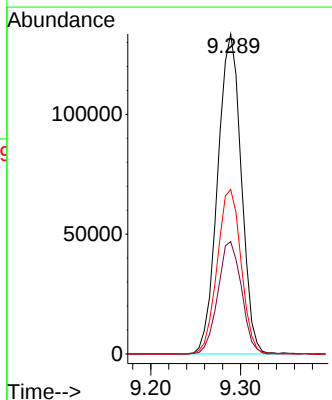
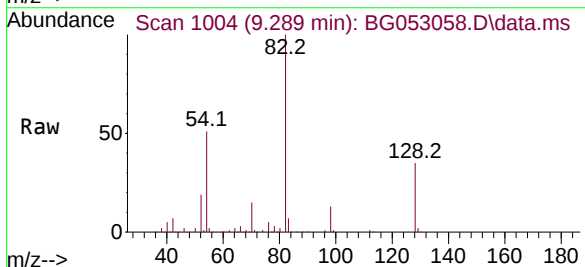
Instrument :  
BNA\_G  
ClientSampleId :  
TP-4

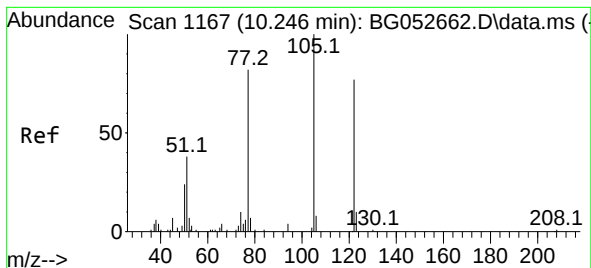
Tgt Ion:136 Resp: 142761  
Ion Ratio Lower Upper  
136 100  
137 10.8 9.4 14.2  
54 9.7 6.4 9.6#  
68 5.5 5.0 7.6



#23  
Nitrobenzene-d5  
Concen: 85.440 ng  
RT: 9.289 min Scan# 1004  
Delta R.T. -0.002 min  
Lab File: BG053058.D  
Acq: 6 Apr 2022 17:08

Tgt Ion: 82 Resp: 243024  
Ion Ratio Lower Upper  
82 100  
128 35.1 31.3 46.9  
54 51.4 37.8 56.8





#32

Benzoic acid

Concen: 5.707 ng

RT: 10.382 min Scan# 1167

Delta R.T. 0.145 min

Lab File: BG053058.D

Acq: 6 Apr 2022 17:08

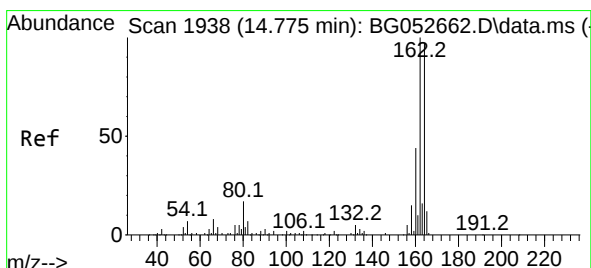
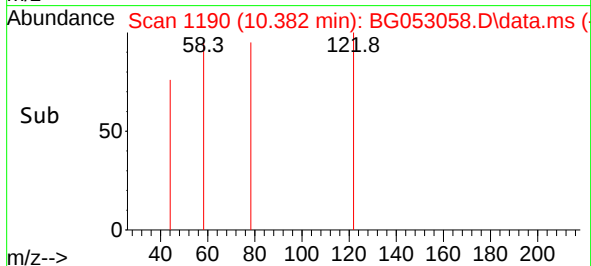
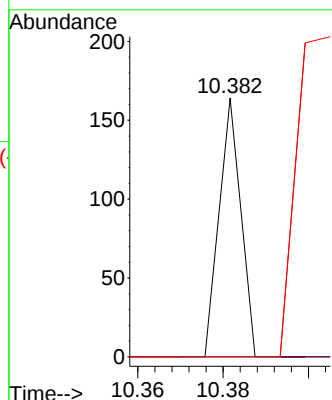
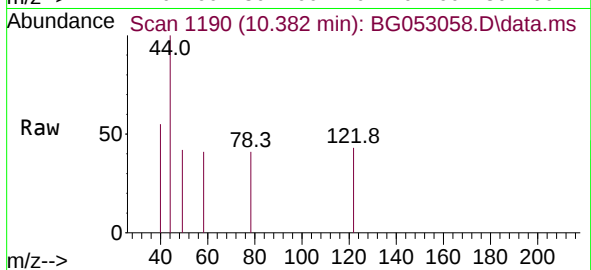
Instrument :

BNA\_G

ClientSampleId :

TP-4

|             |       |              |
|-------------|-------|--------------|
| Tgt Ion:122 | Resp: | 58           |
| Ion         | Ratio | Lower Upper  |
| 122         | 100   |              |
| 105         | 0.0   | 112.8 152.8# |
| 77          | 0.0   | 78.4 118.4#  |



#39

Acenaphthene-d10

Concen: 20.000 ng

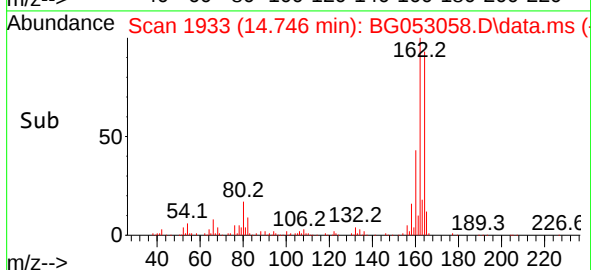
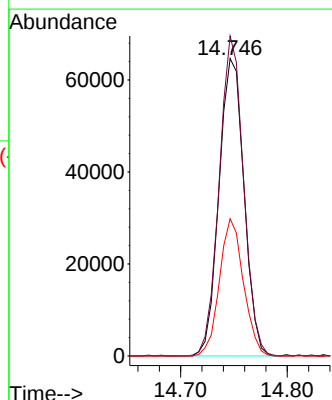
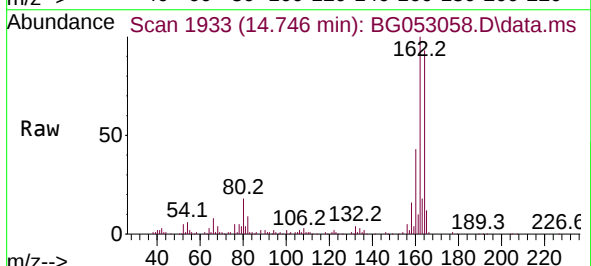
RT: 14.746 min Scan# 1933

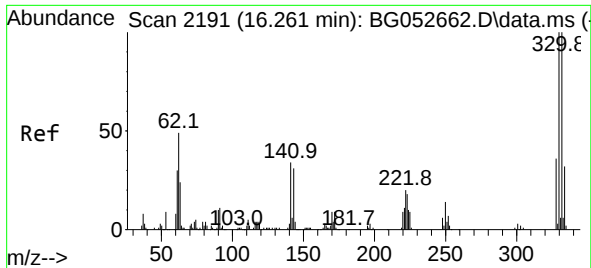
Delta R.T. -0.002 min

Lab File: BG053058.D

Acq: 6 Apr 2022 17:08

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:164 | Resp: | 105062      |
| Ion         | Ratio | Lower Upper |
| 164         | 100   |             |
| 162         | 107.6 | 80.0 120.0  |
| 160         | 46.2  | 38.8 58.2   |

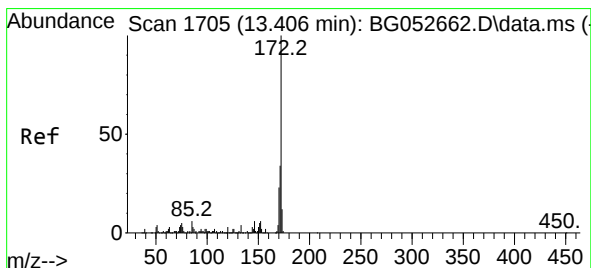
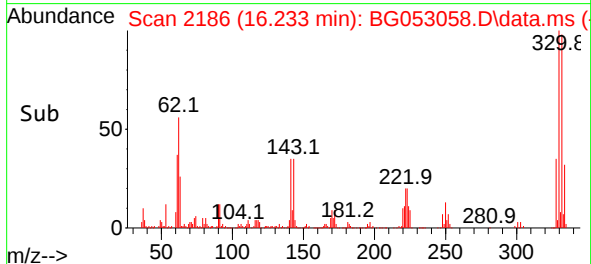
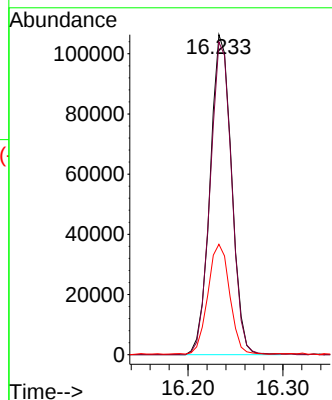
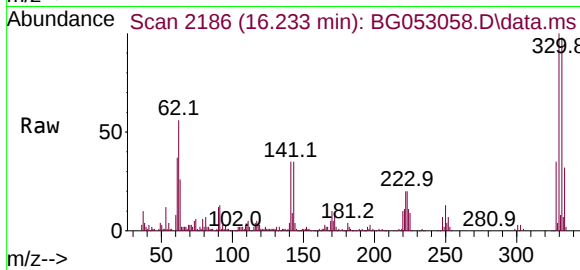




#42  
 2,4,6-Tribromophenol  
 Concen: 118.507 ng  
 RT: 16.233 min Scan# 2191  
 Delta R.T. -0.002 min  
 Lab File: BG053058.D  
 Acq: 6 Apr 2022 17:08

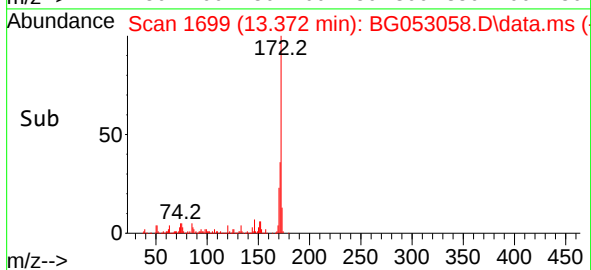
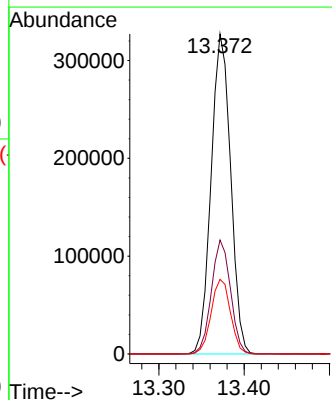
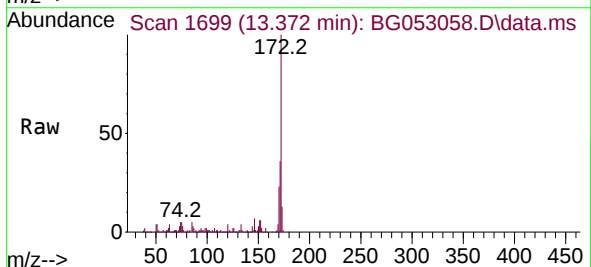
Instrument :  
 BNA\_G  
 ClientSampleId :  
 TP-4

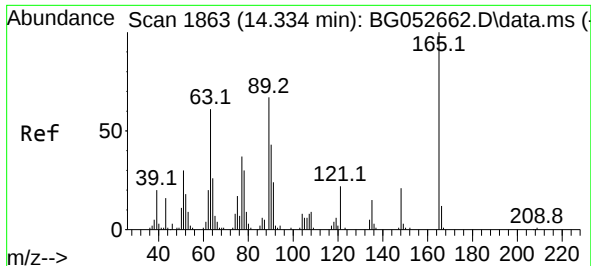
Tgt Ion:330 Resp: 167303  
 Ion Ratio Lower Upper  
 330 100  
 332 97.5 75.8 113.6  
 141 34.9 24.6 36.8



#45  
 2-Fluorobiphenyl  
 Concen: 72.992 ng  
 RT: 13.372 min Scan# 1699  
 Delta R.T. -0.002 min  
 Lab File: BG053058.D  
 Acq: 6 Apr 2022 17:08

Tgt Ion:172 Resp: 519966  
 Ion Ratio Lower Upper  
 172 100  
 171 35.6 28.3 42.5  
 170 23.3 18.0 27.0

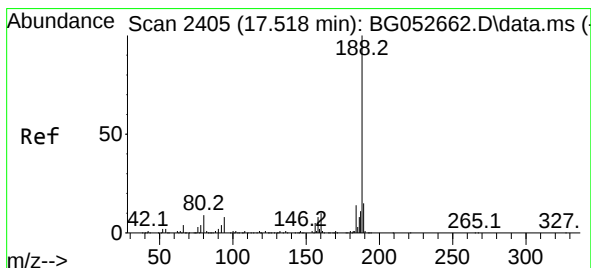
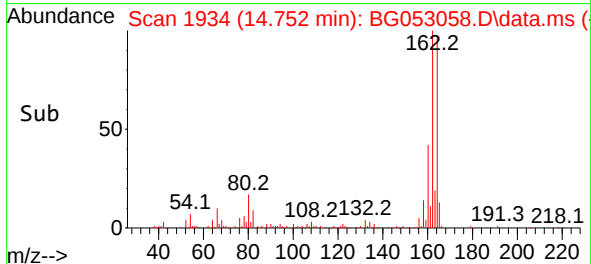
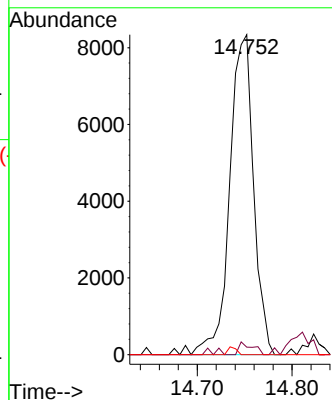
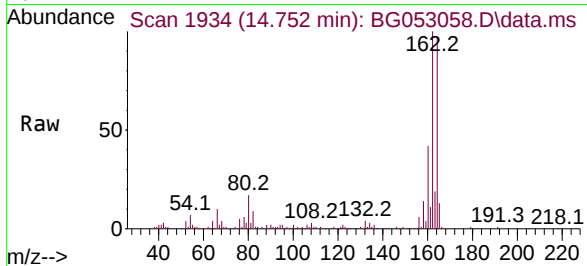




#51  
2,6-Dinitrotoluene  
Concen: 11.096 ng  
RT: 14.752 min Scan# 1934  
Delta R.T. 0.438 min  
Lab File: BG053058.D  
Acq: 6 Apr 2022 17:08

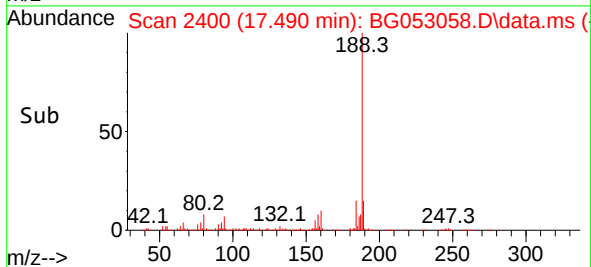
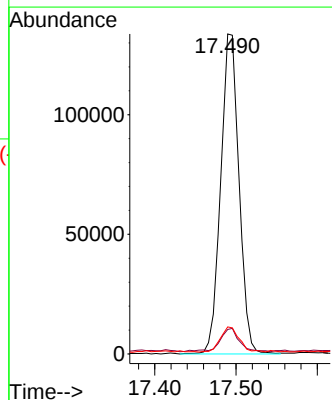
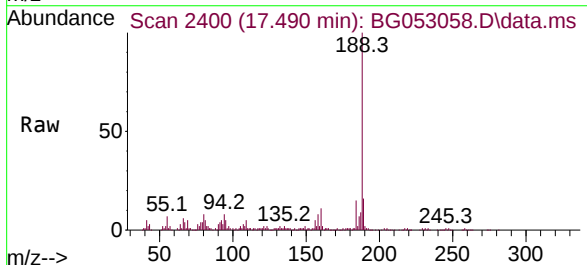
Instrument :  
BNA\_G  
ClientSampleId :  
TP-4

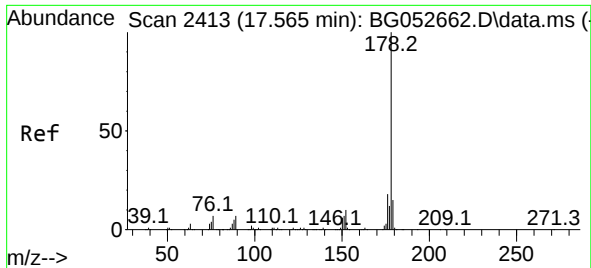
Tgt Ion:165 Resp: 14628  
Ion Ratio Lower Upper  
165 100  
63 2.4 43.7 65.5#  
89 0.0 45.0 67.4#



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.490 min Scan# 2400  
Delta R.T. -0.002 min  
Lab File: BG053058.D  
Acq: 6 Apr 2022 17:08

Tgt Ion:188 Resp: 210025  
Ion Ratio Lower Upper  
188 100  
94 7.6 5.7 8.5  
80 8.5 7.2 10.8

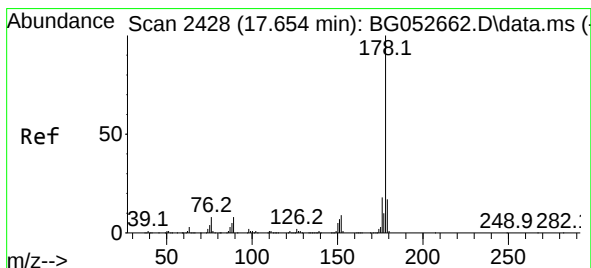
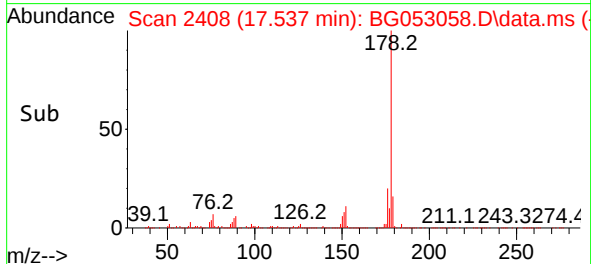
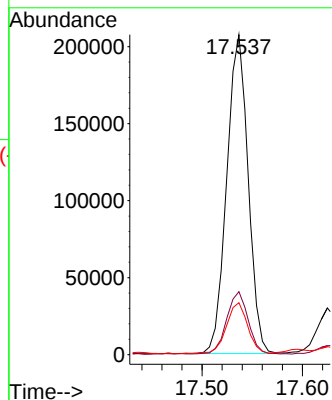
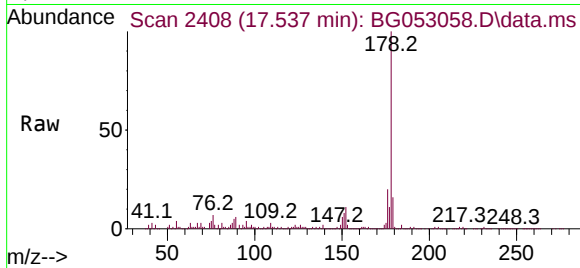




#71  
Phenanthrene  
Concen: 27.258 ng  
RT: 17.537 min Scan# 2413  
Delta R.T. 0.004 min  
Lab File: BG053058.D  
Acq: 6 Apr 2022 17:08

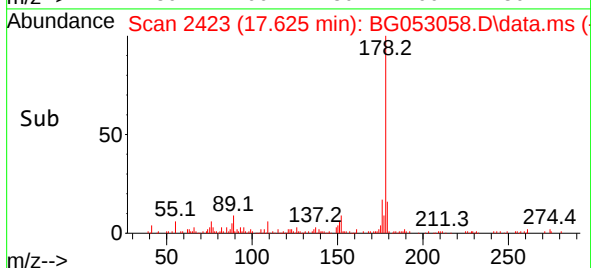
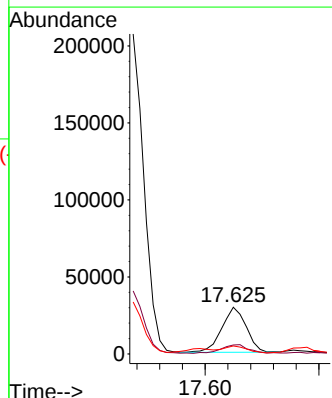
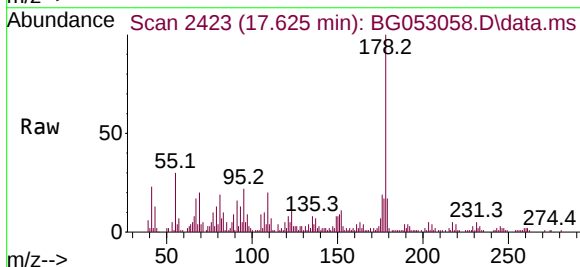
Instrument :  
BNA\_G  
ClientSampleId :  
TP-4

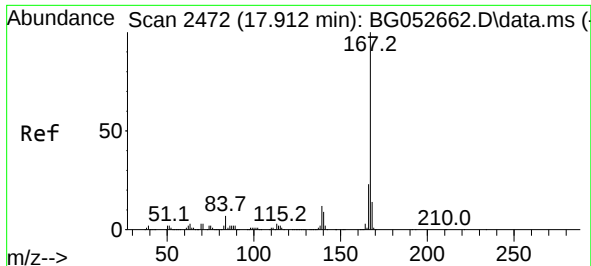
Tgt Ion:178 Resp: 306268  
Ion Ratio Lower Upper  
178 100  
176 19.7 15.9 23.9  
179 16.3 13.4 20.2



#72  
Anthracene  
Concen: 3.930 ng  
RT: 17.625 min Scan# 2423  
Delta R.T. -0.002 min  
Lab File: BG053058.D  
Acq: 6 Apr 2022 17:08

Tgt Ion:178 Resp: 43653  
Ion Ratio Lower Upper  
178 100  
176 19.2 14.7 22.1  
179 17.2 13.2 19.8

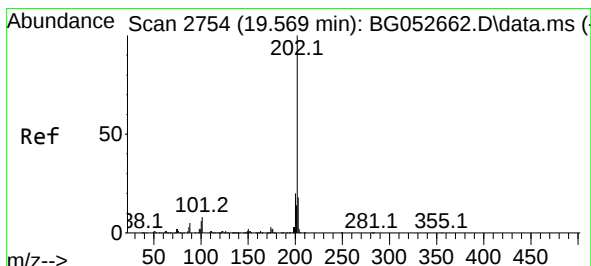
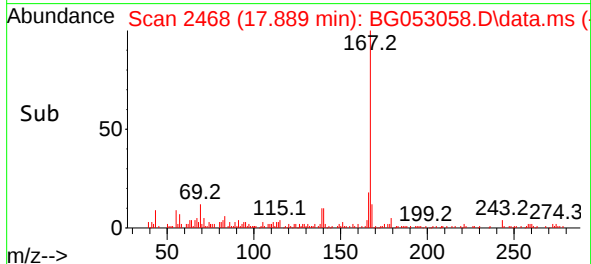
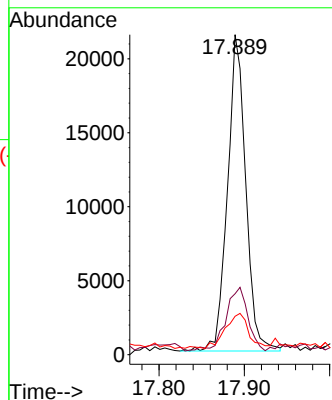
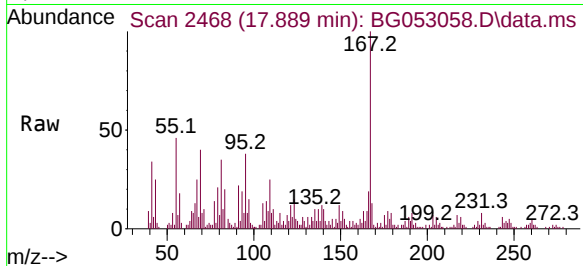




#73  
 Carbazole  
 Concen: 2.893 ng  
 RT: 17.889 min Scan# 2472  
 Delta R.T. -0.002 min  
 Lab File: BG053058.D  
 Acq: 6 Apr 2022 17:08

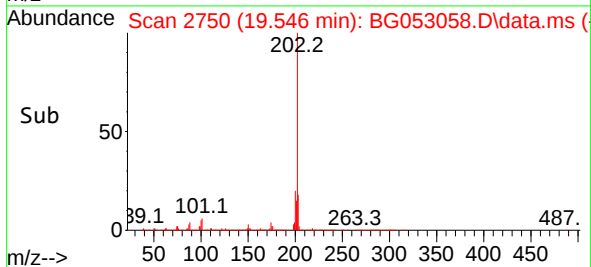
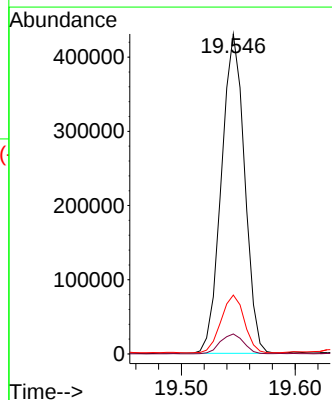
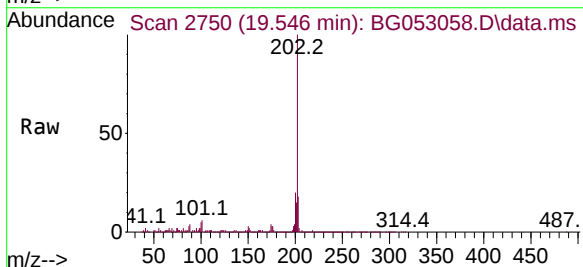
Instrument :  
 BNA\_G  
 ClientSampleId :  
 TP-4

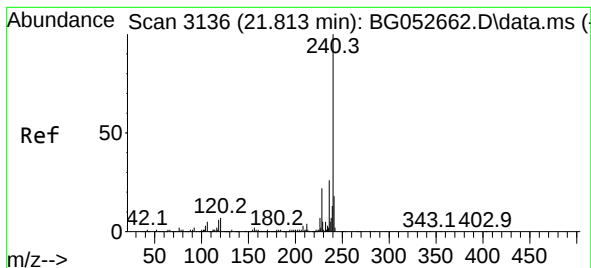
Tgt Ion:167 Resp: 31823  
 Ion Ratio Lower Upper  
 167 100  
 166 19.1 18.5 27.7  
 139 12.0 10.0 15.0



#75  
 Fluoranthene  
 Concen: 42.755 ng  
 RT: 19.546 min Scan# 2750  
 Delta R.T. 0.004 min  
 Lab File: BG053058.D  
 Acq: 6 Apr 2022 17:08

Tgt Ion:202 Resp: 609782  
 Ion Ratio Lower Upper  
 202 100  
 101 6.2 0.0 27.3  
 203 18.4 0.0 37.7





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.778 min Scan# 31

Delta R.T. -0.002 min

Lab File: BG053058.D

Acq: 6 Apr 2022 17:08

Instrument :

BNA\_G

ClientSampleId :

TP-4

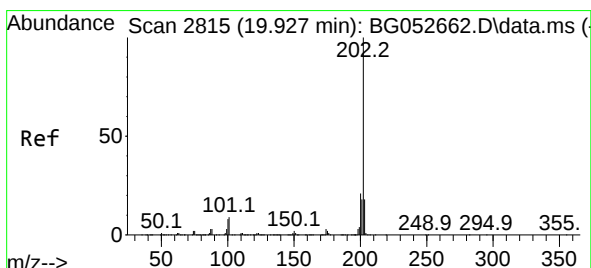
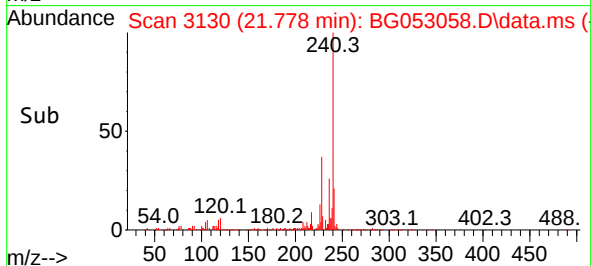
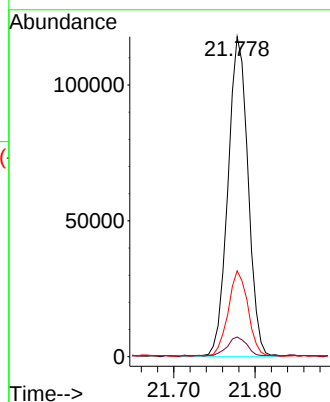
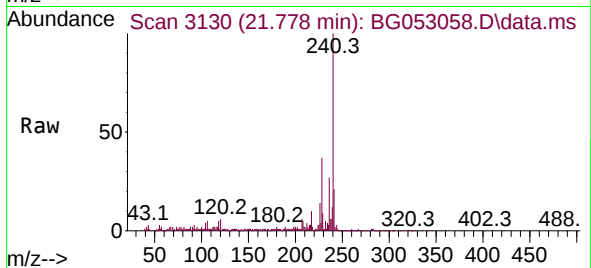
Tgt Ion:240 Resp: 203025

Ion Ratio Lower Upper

240 100

120 6.1 5.4 8.0

236 26.8 19.8 29.6



#78

Pyrene

Concen: 42.211 ng

RT: 19.904 min Scan# 2811

Delta R.T. 0.004 min

Lab File: BG053058.D

Acq: 6 Apr 2022 17:08

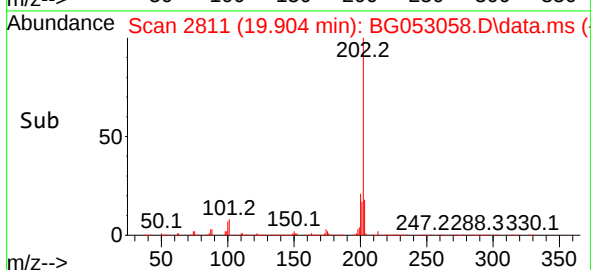
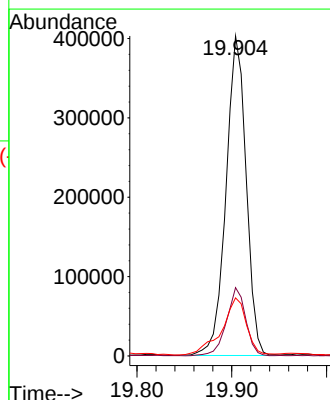
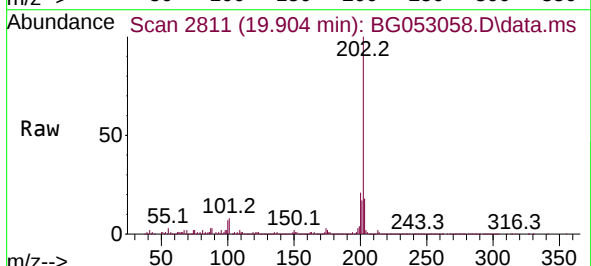
Tgt Ion:202 Resp: 594464

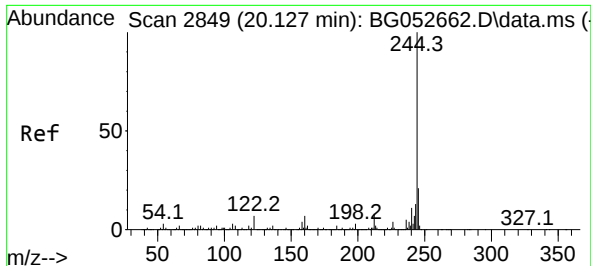
Ion Ratio Lower Upper

202 100

200 21.3 17.0 25.6

203 18.2 15.0 22.6

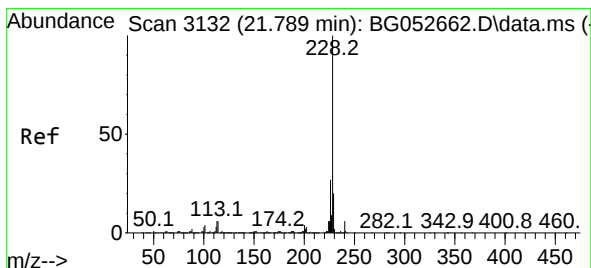
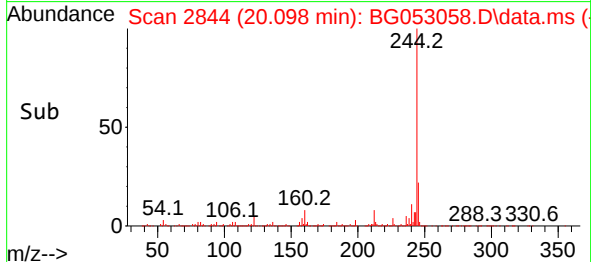
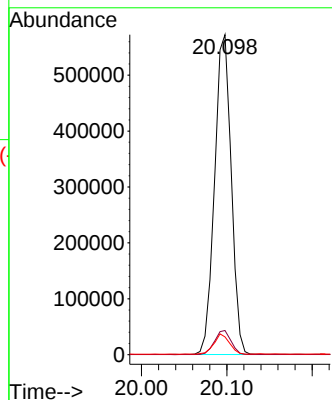
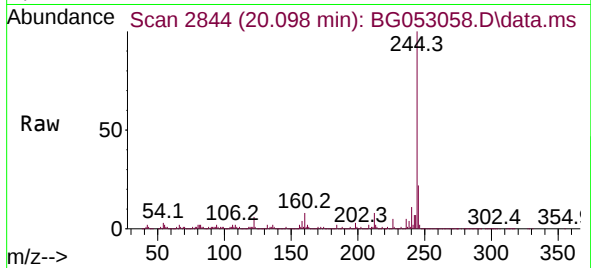




#79  
 Terphenyl-d14  
 Concen: 67.826 ng  
 RT: 20.098 min Scan# 21  
 Delta R.T. 0.004 min  
 Lab File: BG053058.D  
 Acq: 6 Apr 2022 17:08

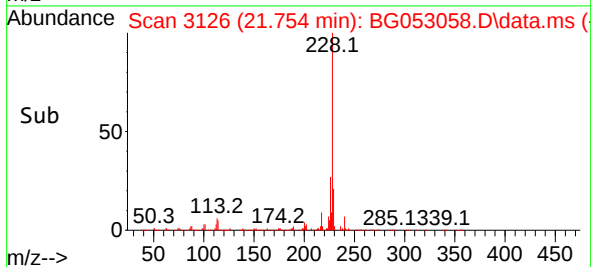
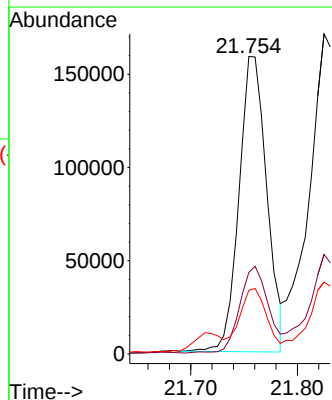
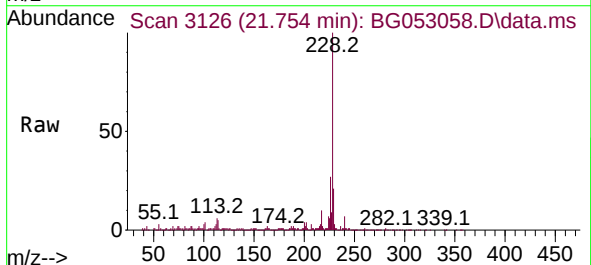
Instrument :  
 BNA\_G  
 ClientSampleId :  
 TP-4

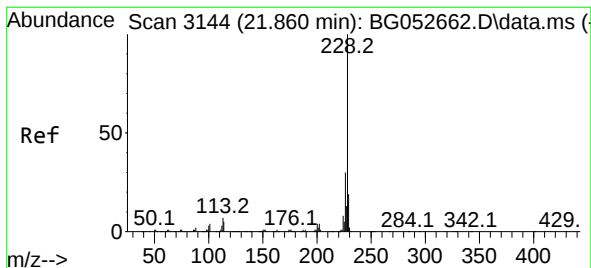
Tgt Ion:244 Resp: 774118  
 Ion Ratio Lower Upper  
 244 100  
 212 7.6 5.4 8.2  
 122 5.6 5.8 8.6#



#81  
 Benzo(a)anthracene  
 Concen: 21.104 ng  
 RT: 21.754 min Scan# 3126  
 Delta R.T. -0.002 min  
 Lab File: BG053058.D  
 Acq: 6 Apr 2022 17:08

Tgt Ion:228 Resp: 286905  
 Ion Ratio Lower Upper  
 228 100  
 226 27.4 21.4 32.0  
 229 21.4 16.7 25.1





#83

Chrysene

Concen: 25.283 ng

RT: 21.825 min Scan# 31

Delta R.T. -0.002 min

Lab File: BG053058.D

Acq: 6 Apr 2022 17:08

Instrument :

BNA\_G

ClientSampleId :

TP-4

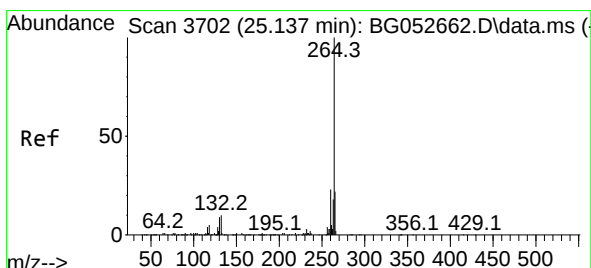
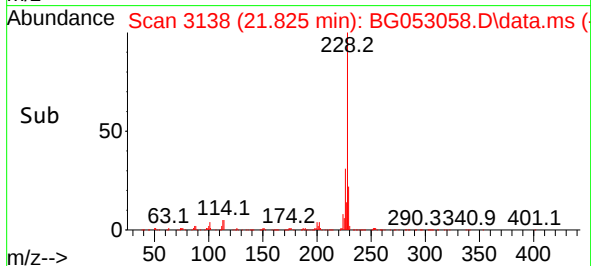
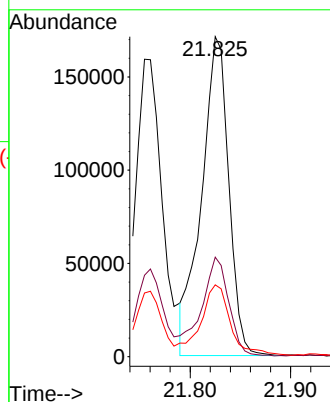
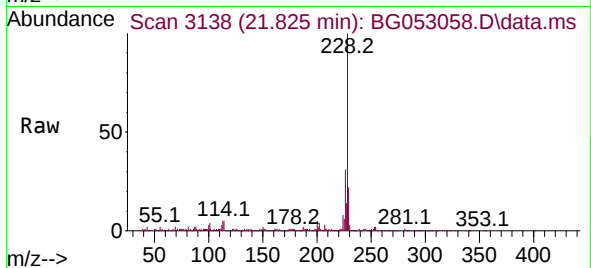
Tgt Ion:228 Resp: 323134

Ion Ratio Lower Upper

228 100

226 31.1 24.2 36.4

229 22.5 16.3 24.5



#86

Perylene-d12

Concen: 20.000 ng

RT: 25.085 min Scan# 3693

Delta R.T. 0.004 min

Lab File: BG053058.D

Acq: 6 Apr 2022 17:08

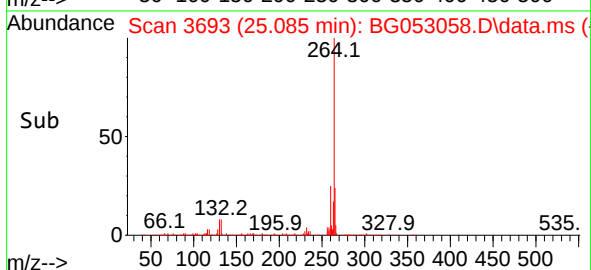
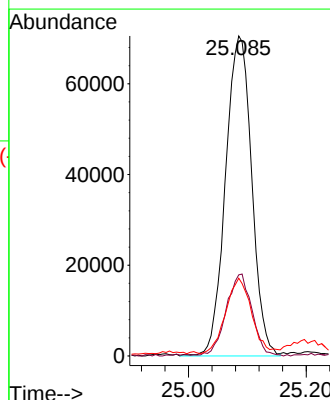
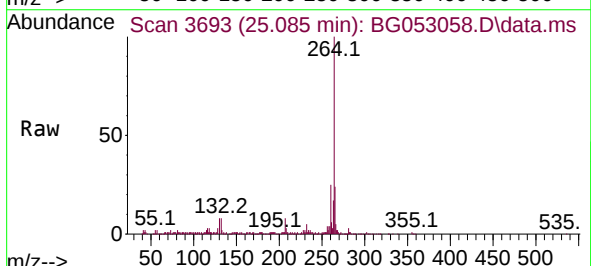
Tgt Ion:264 Resp: 217978

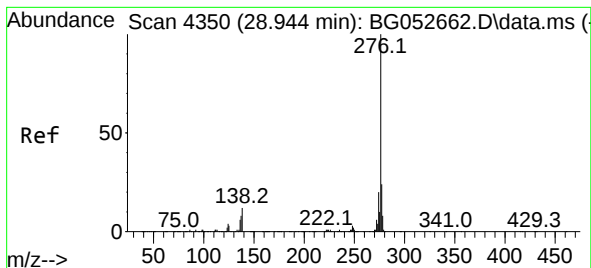
Ion Ratio Lower Upper

264 100

260 25.3 18.2 27.2

265 24.3 15.1 22.7#





#87

Indeno(1,2,3-cd)pyrene

Concen: 16.519 ng

RT: 28.862 min Scan# 41

Delta R.T. -0.008 min

Lab File: BG053058.D

Acq: 6 Apr 2022 17:08

Instrument :

BNA\_G

ClientSampleId :

TP-4

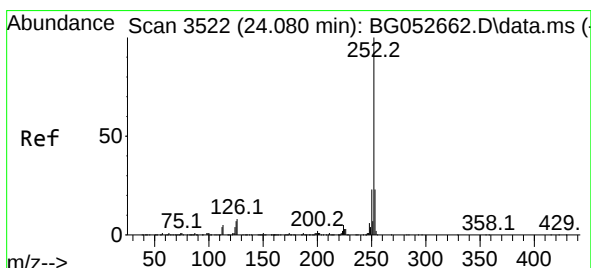
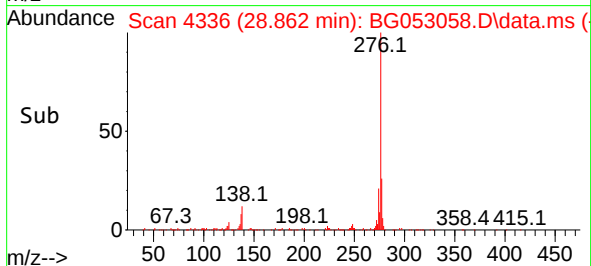
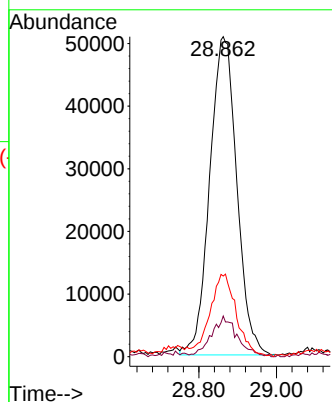
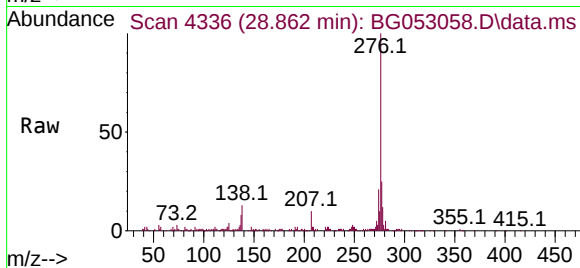
Tgt Ion:276 Resp: 246469

Ion Ratio Lower Upper

276 100

138 11.4 8.7 13.1

277 24.5 20.2 30.4



#88

Benzo(b)fluoranthene

Concen: 31.893 ng

RT: 24.034 min Scan# 3514

Delta R.T. 0.004 min

Lab File: BG053058.D

Acq: 6 Apr 2022 17:08

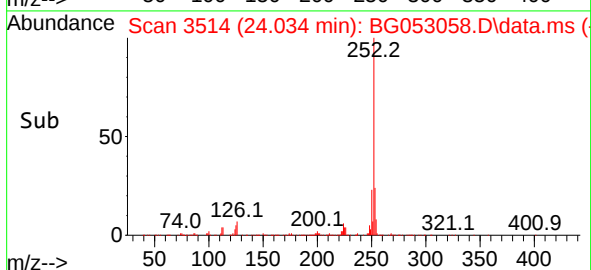
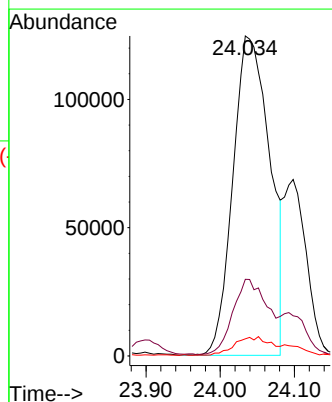
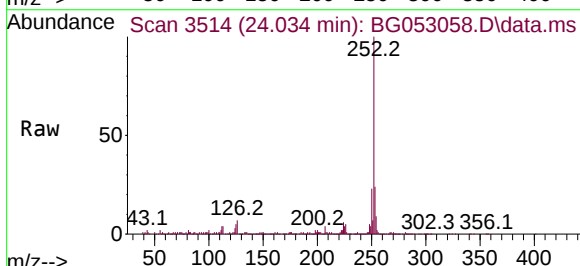
Tgt Ion:252 Resp: 431646

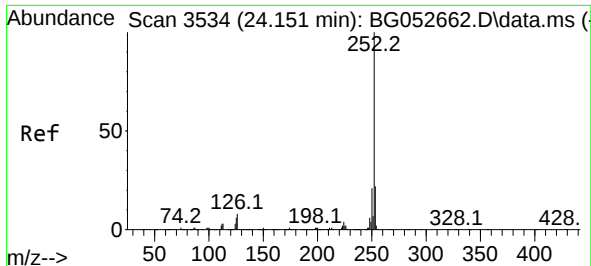
Ion Ratio Lower Upper

252 100

253 24.0 17.2 25.8

125 5.4 5.2 7.8

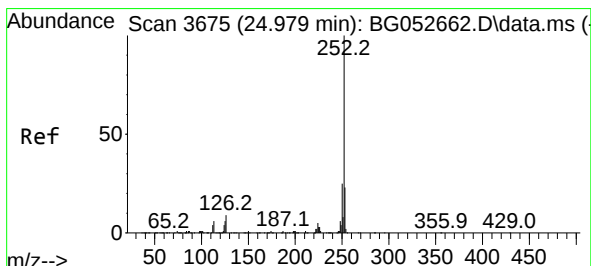
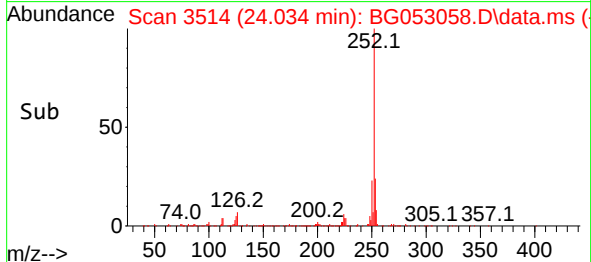
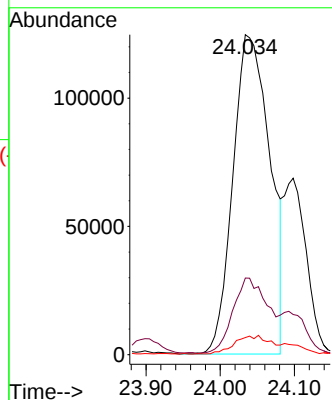
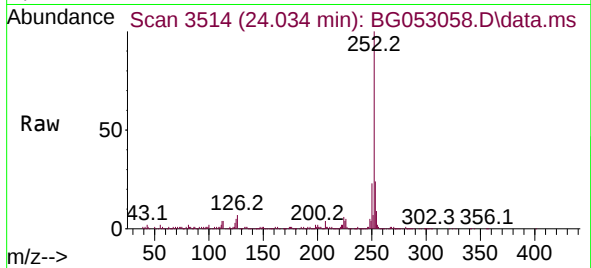




#89  
Benzo(k)fluoranthene  
Concen: 32.415 ng  
RT: 24.034 min Scan# 31  
Delta R.T. -0.067 min  
Lab File: BG053058.D  
Acq: 6 Apr 2022 17:08

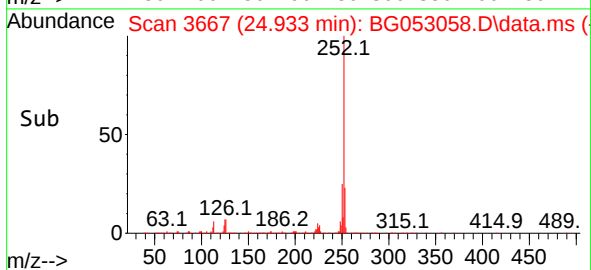
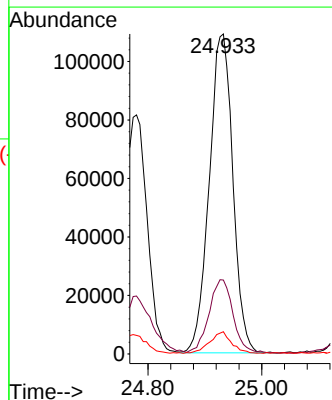
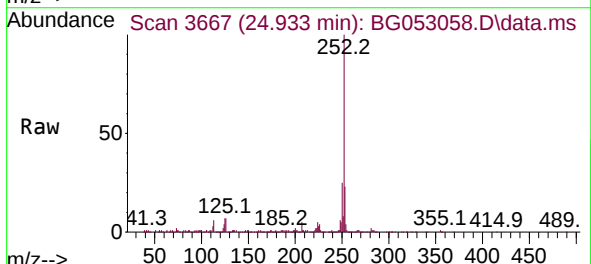
Instrument :  
BNA\_G  
ClientSampleId :  
TP-4

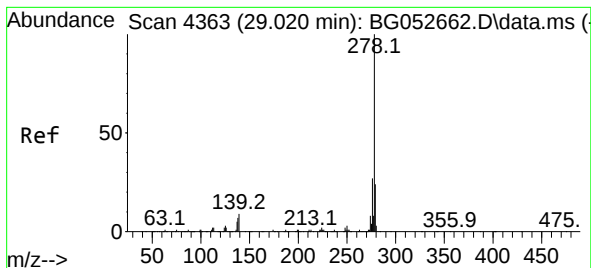
Tgt Ion:252 Resp: 431646  
Ion Ratio Lower Upper  
252 100  
253 24.0 17.4 26.0  
125 5.4 5.0 7.4



#90  
Benzo(a)pyrene  
Concen: 27.398 ng  
RT: 24.933 min Scan# 3667  
Delta R.T. 0.004 min  
Lab File: BG053058.D  
Acq: 6 Apr 2022 17:08

Tgt Ion:252 Resp: 313883  
Ion Ratio Lower Upper  
252 100  
253 23.1 18.4 27.6  
125 7.0 5.6 8.4





#91

Dibenzo(a,h)anthracene

Concen: 4.961 ng

RT: 28.904 min Scan# 41

Delta R.T. -0.026 min

Lab File: BG053058.D

Acq: 6 Apr 2022 17:08

Instrument :

BNA\_G

ClientSampleId :

TP-4

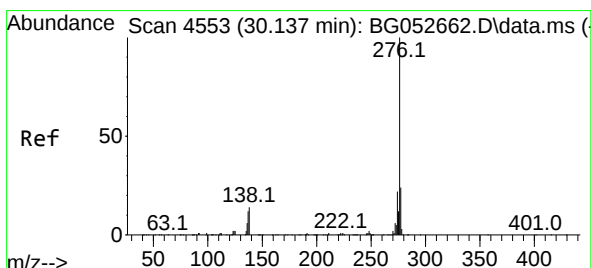
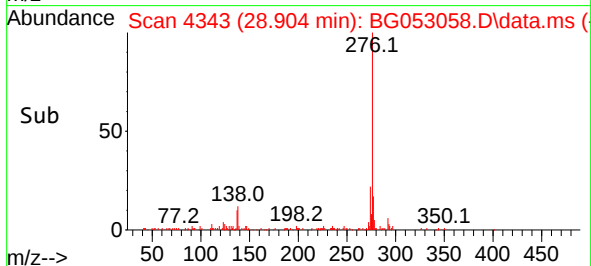
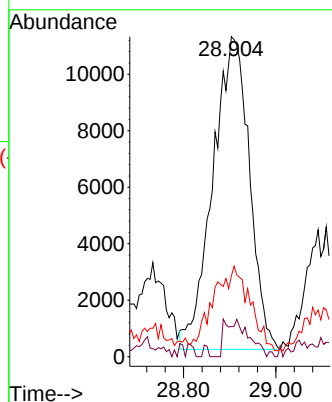
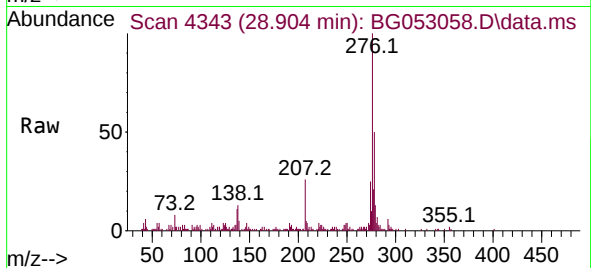
Tgt Ion:278 Resp: 60986

Ion Ratio Lower Upper

278 100

139 9.4 7.8 11.6

279 25.2 18.5 27.7



#92

Benzo(g,h,i)perylene

Concen: 20.030 ng

RT: 30.037 min Scan# 4536

Delta R.T. -0.014 min

Lab File: BG053058.D

Acq: 6 Apr 2022 17:08

Tgt Ion:276 Resp: 243647

Ion Ratio Lower Upper

276 100

277 24.8 18.2 27.2

138 11.7 9.1 13.7

