

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040124\  
 Data File : BG060731.D  
 Acq On : 2 Apr 2024 1:43  
 Operator : MA/JU  
 Sample : P1879-13 2X  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 HS-01(0-6)

Quant Time: Apr 02 05:10:12 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG032924.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Mar 30 03:12:26 2024  
 Response via : Initial Calibration

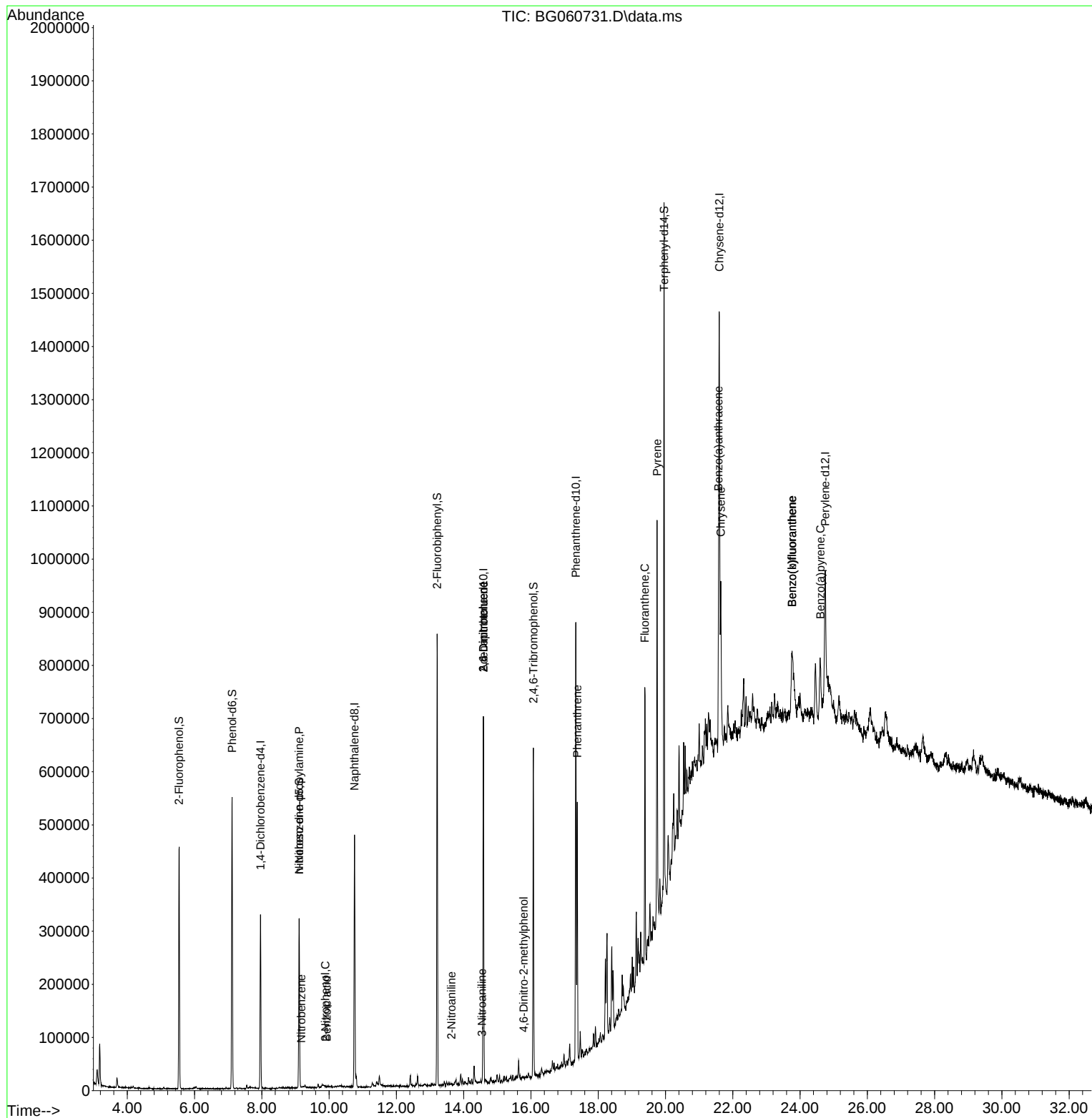
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.959  | 152  | 90515    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.755 | 136  | 381444   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.586 | 164  | 248953   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.336 | 188  | 516748   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 21.602 | 240  | 452465   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 24.751 | 264  | 414172   | 20.000 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.538  | 112  | 189441   | 34.866 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.119  | 99   | 288019   | 35.711 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.110  | 82   | 164159   | 24.557 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.073 | 330  | 114483   | 40.510 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.211 | 172  | 435732   | 25.687 | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.956 | 244  | 668176   | 26.003 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 9.110  | 70   | 23505    | 3.822  | ng    | # 79     |
| 24) Nitrobenzene              | 9.175  | 77   | 269      | 2.807  | ng    | # 42     |
| 26) 2-Nitrophenol             | 9.892  | 139  | 58       | 2.984  | ng    | # 45     |
| 32) Benzoic acid              | 9.933  | 122  | 59       | 6.848  | ng    | # 1      |
| 48) 2-Nitroaniline            | 13.640 | 65   | 254      | 2.853  | ng    | # 11     |
| 51) 2,6-Dinitrotoluene        | 14.586 | 165  | 31311    | 11.734 | ng    | # 19     |
| 53) 3-Nitroaniline            | 14.545 | 138  | 55       | 2.865  | ng    | # 1      |
| 57) 2,4-Dinitrotoluene        | 14.586 | 165  | 31311    | 9.886  | ng    | # 20     |
| 65) 4,6-Dinitro-2-methylph... | 15.791 | 198  | 56       | 7.056  | ng    | # 1      |
| 71) Phenanthrene              | 17.377 | 178  | 292642   | 10.889 | ng    | 99       |
| 75) Fluoranthene              | 19.387 | 202  | 317629   | 9.740  | ng    | 99       |
| 78) Pyrene                    | 19.751 | 202  | 484565   | 15.313 | ng    | 98       |
| 81) Benzo(a)anthracene        | 21.578 | 228  | 217910   | 6.832  | ng    | 95       |
| 83) Chrysene                  | 21.643 | 228  | 221181   | 7.195  | ng    | 94       |
| 88) Benzo(b)fluoranthene      | 23.764 | 252  | 269303   | 11.318 | ng    | # 84     |
| 89) Benzo(k)fluoranthene      | 23.764 | 252  | 269303   | 11.058 | ng    | # 84     |
| 90) Benzo(a)pyrene            | 24.604 | 252  | 149693   | 6.474  | ng    | # 87     |
| -----                         |        |      |          |        |       |          |

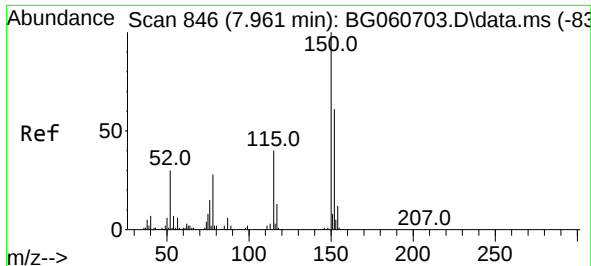
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040124\  
Data File : BG060731.D  
Acq On : 2 Apr 2024 1:43  
Operator : MA/JU  
Sample : P1879-13 2X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
HS-01(0-6)

Quant Time: Apr 02 05:10:12 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG032924.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Mar 30 03:12:26 2024  
Response via : Initial Calibration

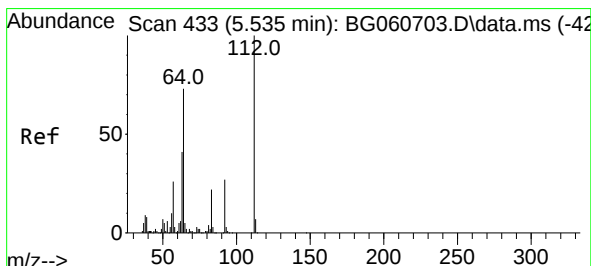
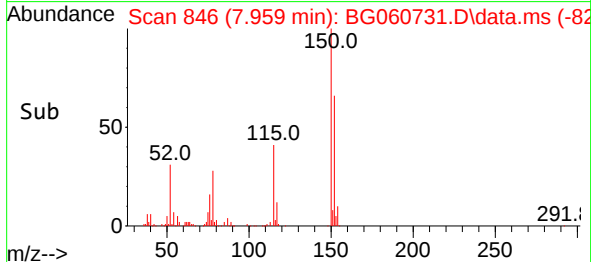
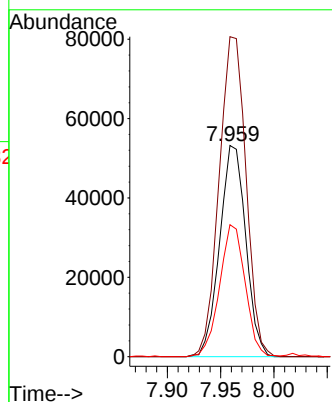
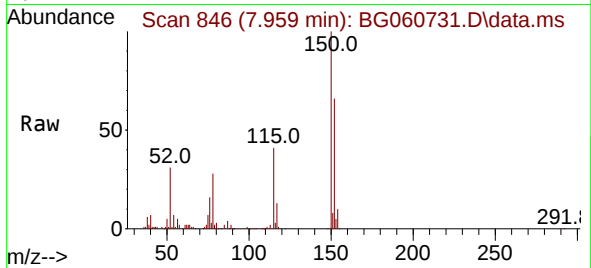




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 7.959 min Scan# 846  
 Delta R.T. -0.002 min  
 Lab File: BG060731.D  
 Acq: 2 Apr 2024 1:43

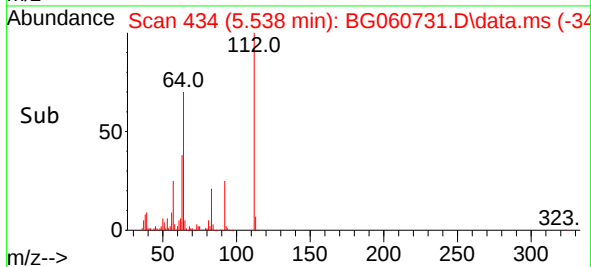
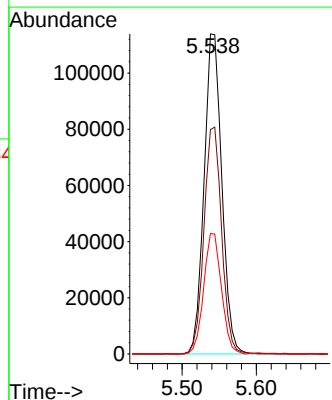
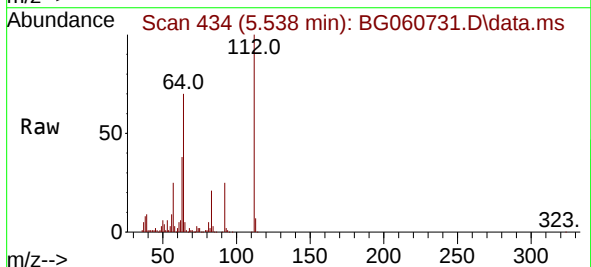
Instrument :  
 BNA\_G  
 ClientSampleId :  
 HS-01(0-6)

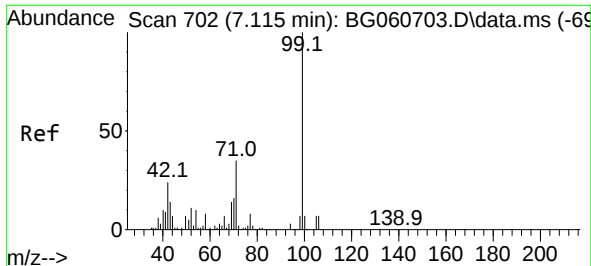
Tgt Ion:152 Resp: 90515  
 Ion Ratio Lower Upper  
 152 100  
 150 151.5 130.2 195.4  
 115 62.5 51.6 77.4



#5  
 2-Fluorophenol  
 Concen: 34.866 ng  
 RT: 5.538 min Scan# 434  
 Delta R.T. 0.003 min  
 Lab File: BG060731.D  
 Acq: 2 Apr 2024 1:43

Tgt Ion:112 Resp: 189441  
 Ion Ratio Lower Upper  
 112 100  
 64 70.1 58.4 87.6  
 63 37.6 32.7 49.1

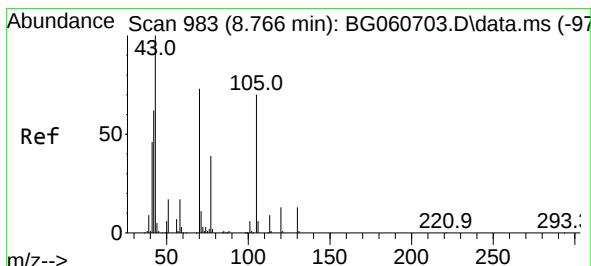
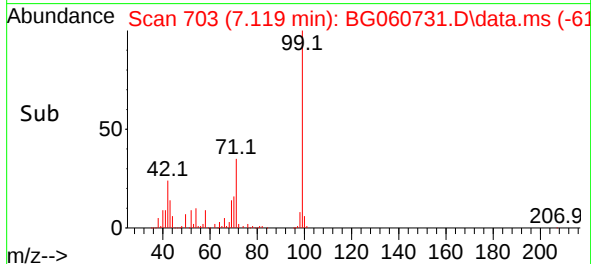
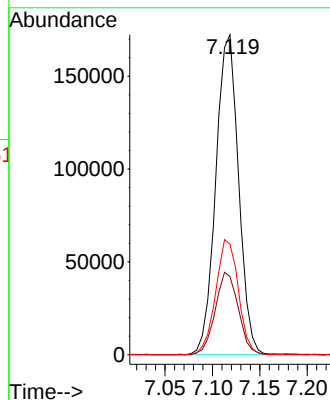
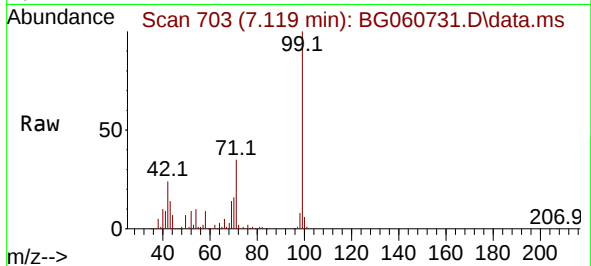




#7  
Phenol-d6  
Concen: 35.711 ng  
RT: 7.119 min Scan# 70  
Delta R.T. 0.003 min  
Lab File: BG060731.D  
Acq: 2 Apr 2024 1:43

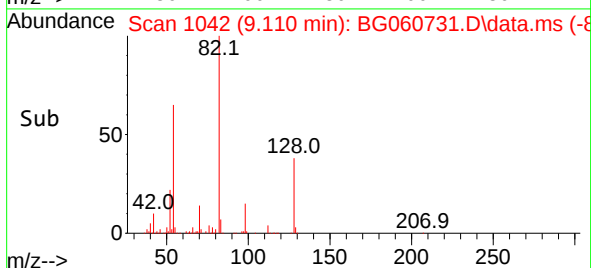
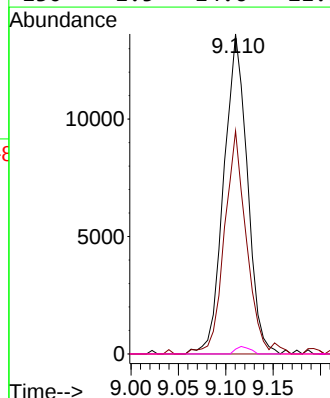
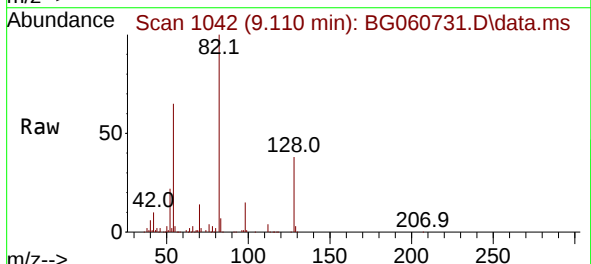
Instrument :  
BNA\_G  
ClientSampleId :  
HS-01(0-6)

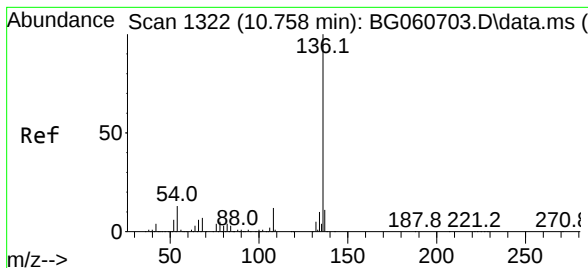
Tgt Ion: 99 Resp: 288019  
Ion Ratio Lower Upper  
99 100  
42 24.4 19.4 29.2  
71 34.6 28.2 42.2



#19  
n-Nitroso-di-n-propylamine  
Concen: 3.822 ng  
RT: 9.110 min Scan# 1042  
Delta R.T. 0.344 min  
Lab File: BG060731.D  
Acq: 2 Apr 2024 1:43

Tgt Ion: 70 Resp: 23505  
Ion Ratio Lower Upper  
70 100  
42 69.7 68.4 102.6  
101 0.0 6.1 9.1#  
130 1.5 14.6 21.8#



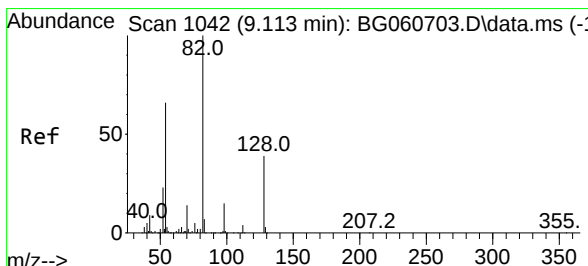
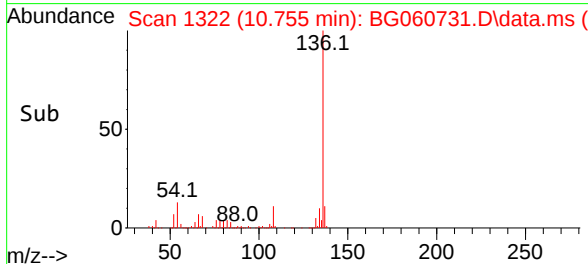
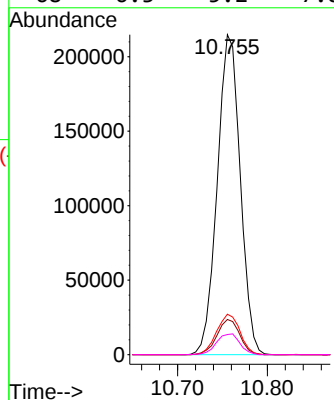
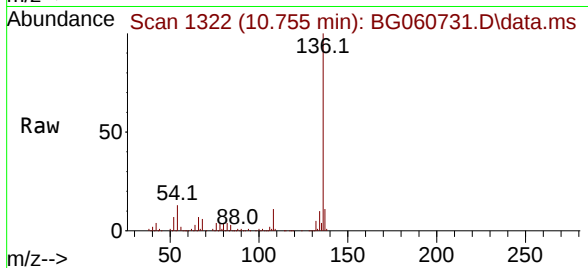


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.755 min Scan# 1322  
Delta R.T. -0.003 min  
Lab File: BG060731.D  
Acq: 2 Apr 2024 1:43

Instrument :  
BNA\_G  
ClientSampleId :  
HS-01(0-6)

Tgt Ion:136 Resp: 381444

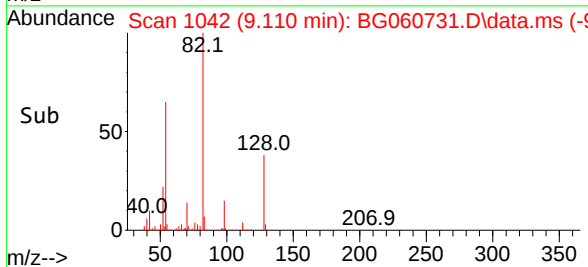
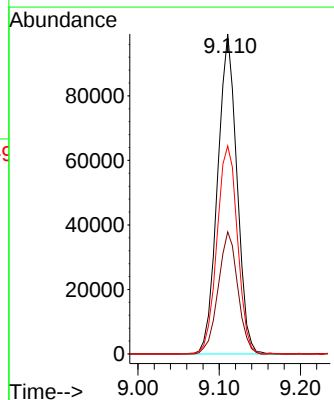
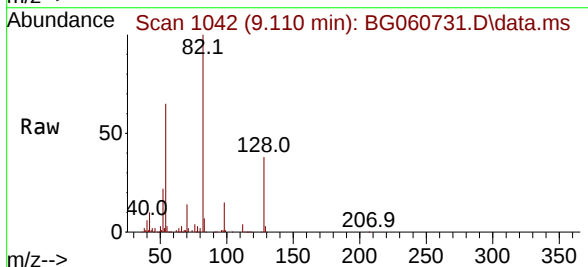
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 11.0  | 8.8   | 13.2  |
| 54  | 12.7  | 10.2  | 15.2  |
| 68  | 6.3   | 5.2   | 7.8   |

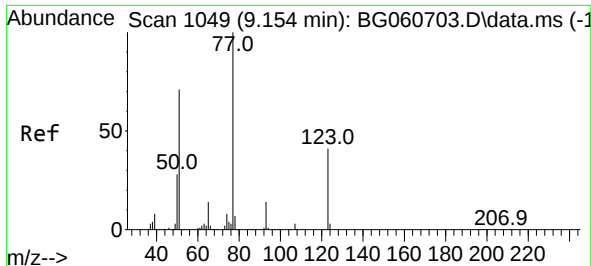


#23  
Nitrobenzene-d5  
Concen: 24.557 ng  
RT: 9.110 min Scan# 1042  
Delta R.T. -0.003 min  
Lab File: BG060731.D  
Acq: 2 Apr 2024 1:43

Tgt Ion: 82 Resp: 164159

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 38.1  | 31.2  | 46.8  |
| 54  | 65.0  | 53.2  | 79.8  |

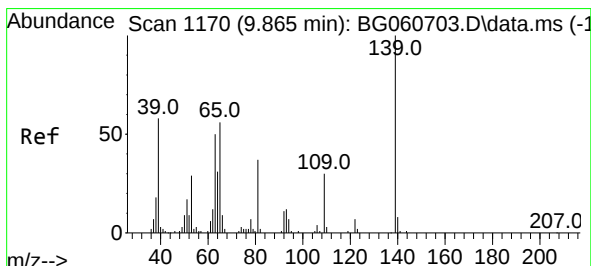
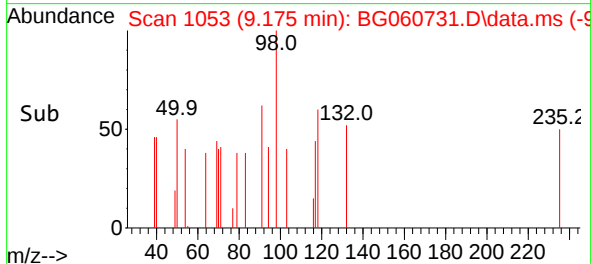
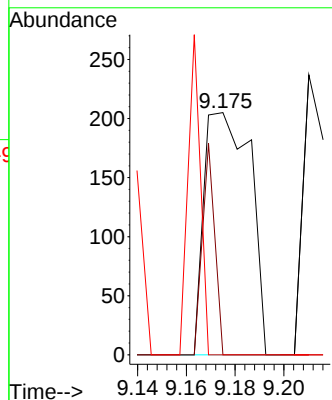
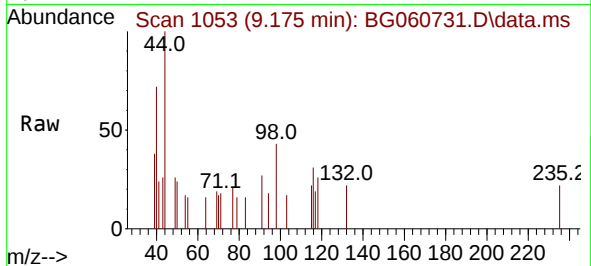




#24  
Nitrobenzene  
Concen: 2.807 ng  
RT: 9.175 min Scan# 1053  
Delta R.T. 0.021 min  
Lab File: BG060731.D  
Acq: 2 Apr 2024 1:43

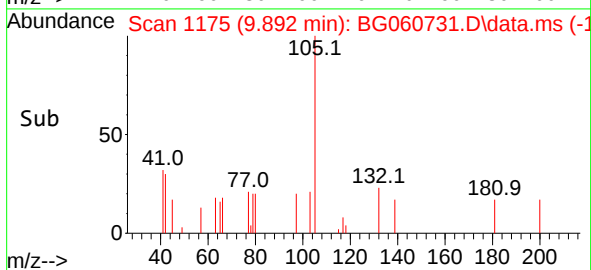
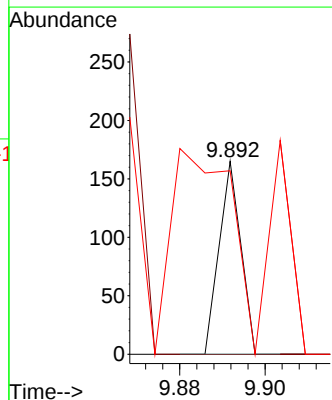
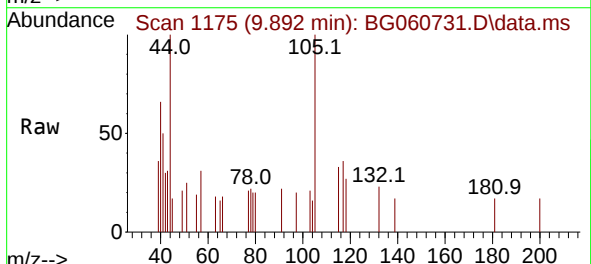
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ClientSampleId :  
HS-01(0-6)

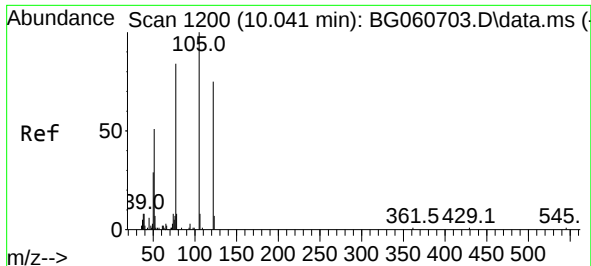
Tgt Ion: 77 Resp: 269  
Ion Ratio Lower Upper  
77 100  
123 0.0 32.7 49.1#  
65 0.0 11.3 16.9#



#26  
2-Nitrophenol  
Concen: 2.984 ng  
RT: 9.892 min Scan# 1175  
Delta R.T. 0.027 min  
Lab File: BG060731.D  
Acq: 2 Apr 2024 1:43

Tgt Ion: 139 Resp: 58  
Ion Ratio Lower Upper  
139 100  
109 0.0 23.9 35.9#  
65 95.2 44.5 66.7#

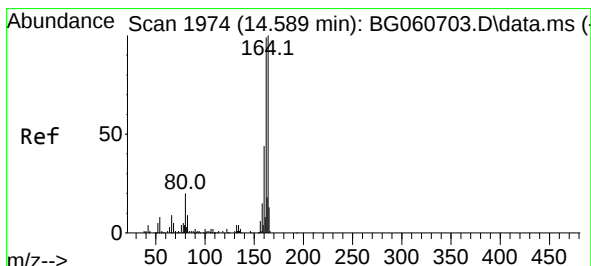
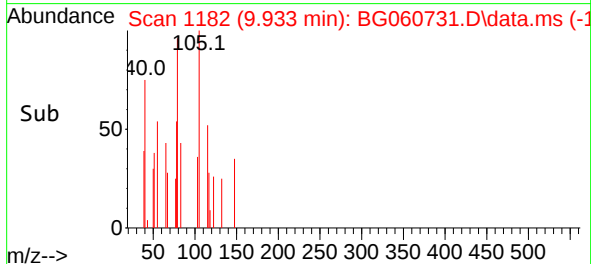
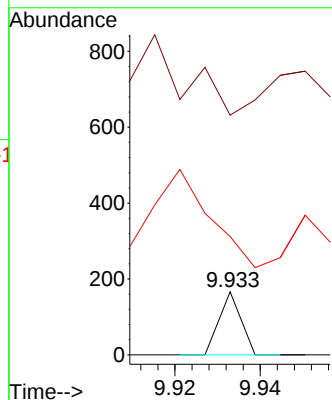
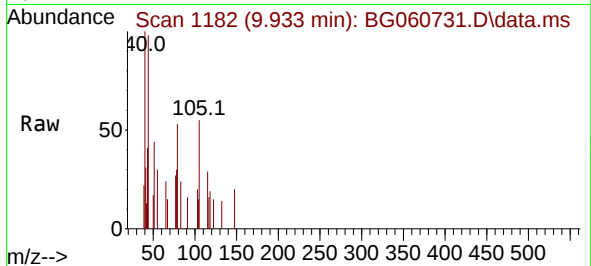




#32  
Benzoic acid  
Concen: 6.848 ng  
RT: 9.933 min Scan# 1182  
Delta R.T. -0.108 min  
Lab File: BG060731.D  
Acq: 2 Apr 2024 1:43

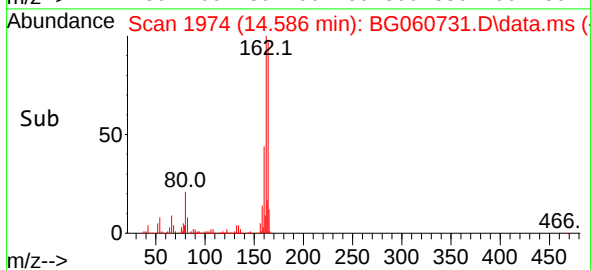
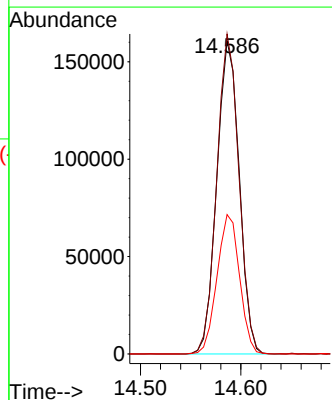
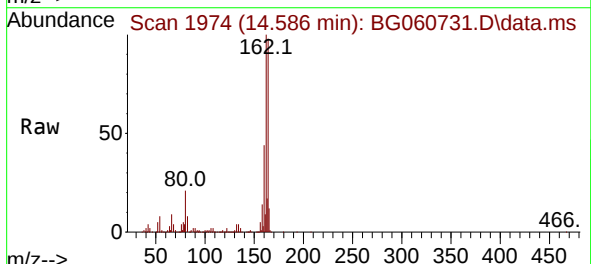
Instrument :  
BNA\_G  
ClientSampleId :  
HS-01(0-6)

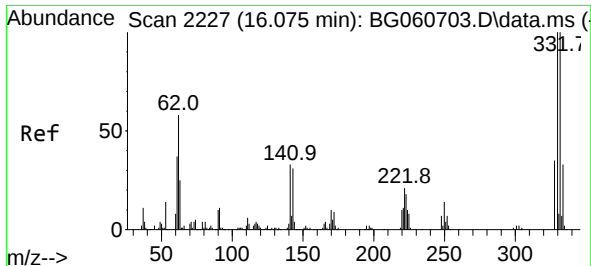
Tgt Ion:122 Resp: 59  
Ion Ratio Lower Upper  
122 100  
105 380.7 104.5 144.5#  
77 188.0 85.3 125.3#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.586 min Scan# 1974  
Delta R.T. -0.003 min  
Lab File: BG060731.D  
Acq: 2 Apr 2024 1:43

Tgt Ion:164 Resp: 248953  
Ion Ratio Lower Upper  
164 100  
162 102.2 79.5 119.3  
160 44.5 35.4 53.0

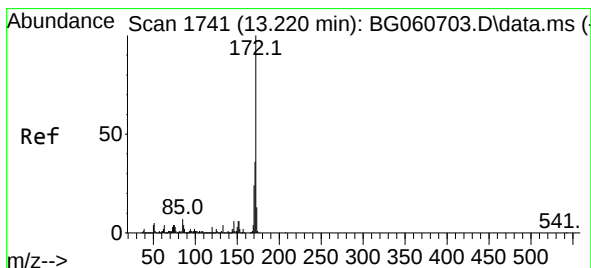
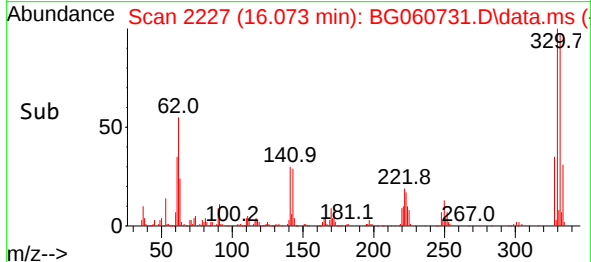
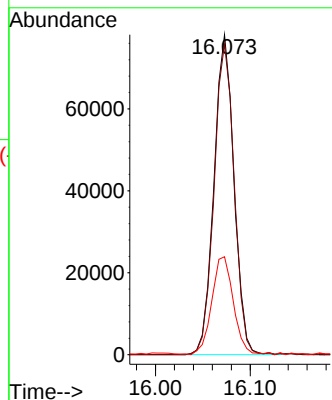
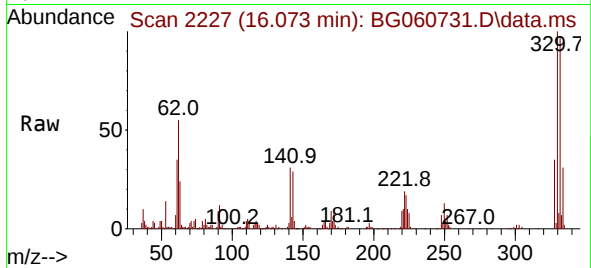




#42  
2,4,6-Tribromophenol  
Concen: 40.510 ng  
RT: 16.073 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: BG060731.D  
Acq: 2 Apr 2024 1:43

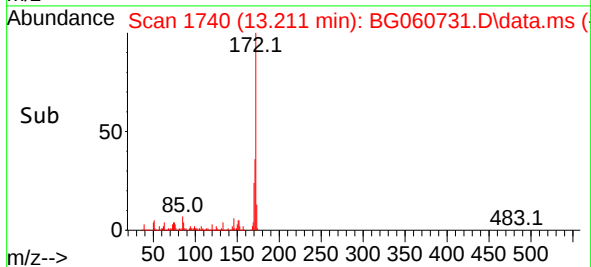
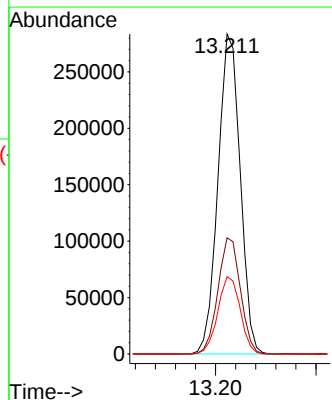
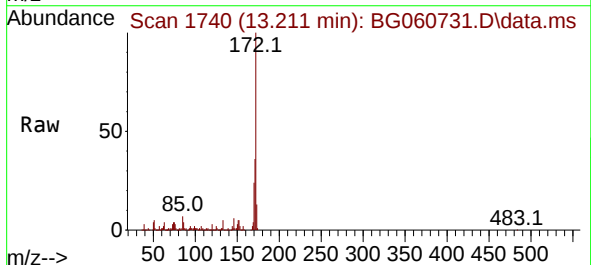
Instrument :  
BNA\_G  
ClientSampleId :  
HS-01(0-6)

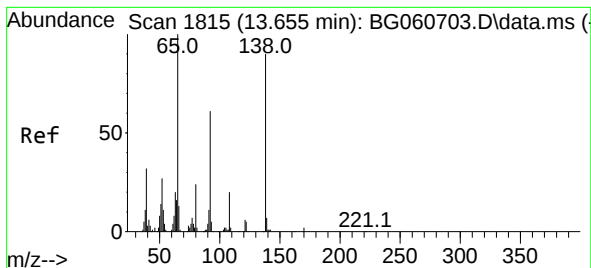
Tgt Ion:330 Resp: 114483  
Ion Ratio Lower Upper  
330 100  
332 97.7 78.2 117.4  
141 32.3 27.0 40.6



#45  
2-Fluorobiphenyl  
Concen: 25.687 ng  
RT: 13.211 min Scan# 1740  
Delta R.T. -0.009 min  
Lab File: BG060731.D  
Acq: 2 Apr 2024 1:43

Tgt Ion:172 Resp: 435732  
Ion Ratio Lower Upper  
172 100  
171 36.3 28.7 43.1  
170 24.1 19.4 29.0





#48

2-Nitroaniline

Concen: 2.853 ng

RT: 13.640 min Scan# 1

Delta R.T. -0.015 min

Lab File: BG060731.D

Acq: 2 Apr 2024 1:43

Instrument :

BNA\_G

ClientSampleId :

HS-01(0-6)

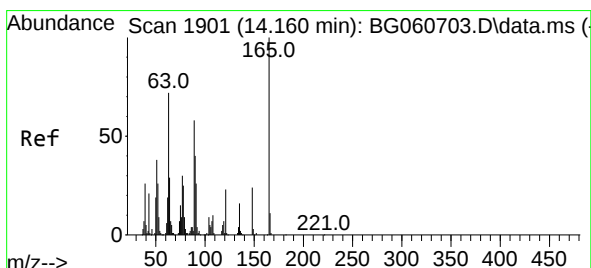
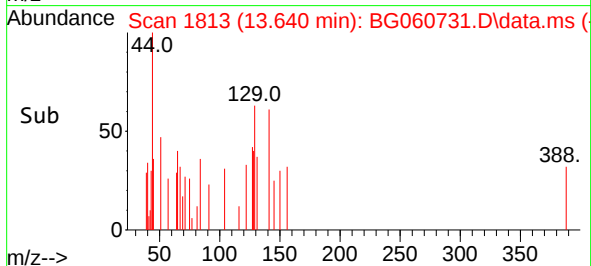
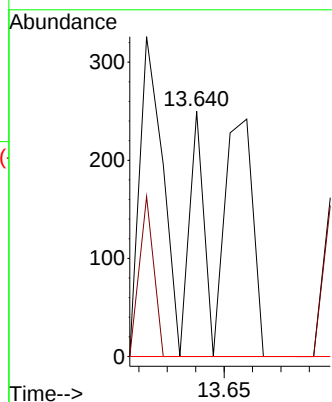
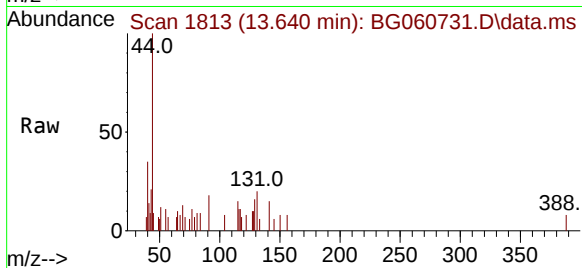
Tgt Ion: 65 Resp: 254

Ion Ratio Lower Upper

65 100

92 0.0 48.6 72.8#

138 0.0 72.2 108.4#



#51

2,6-Dinitrotoluene

Concen: 11.734 ng

RT: 14.586 min Scan# 1974

Delta R.T. 0.426 min

Lab File: BG060731.D

Acq: 2 Apr 2024 1:43

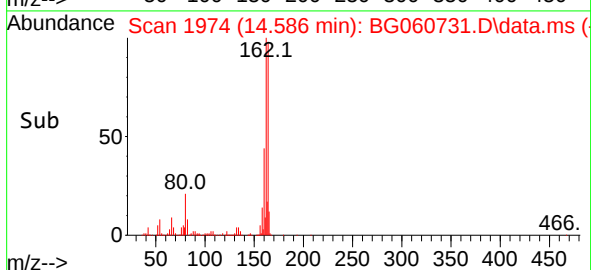
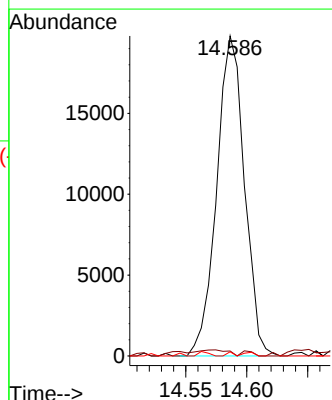
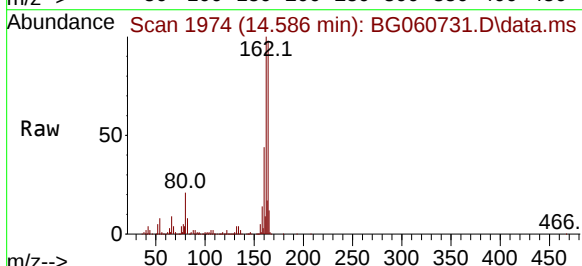
Tgt Ion:165 Resp: 31311

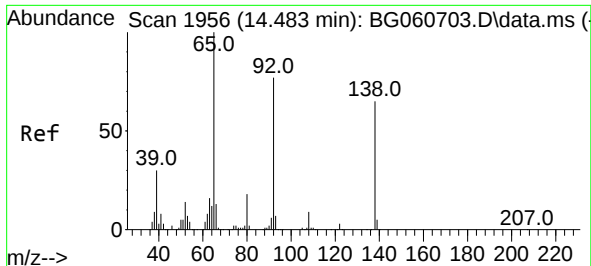
Ion Ratio Lower Upper

165 100

63 1.6 58.2 87.4#

89 1.3 46.1 69.1#

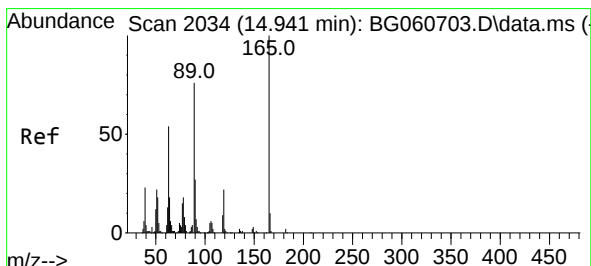
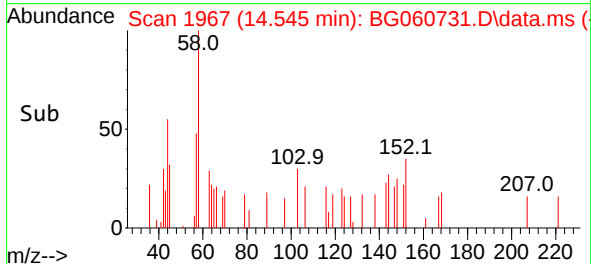
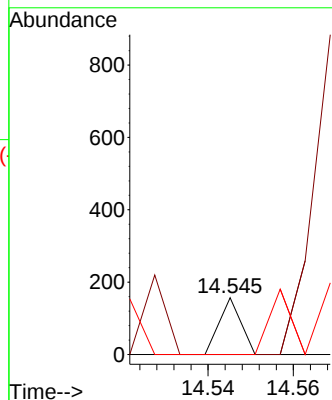
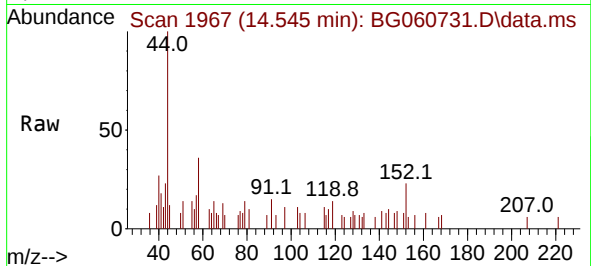




#53  
3-Nitroaniline  
Concen: 2.865 ng  
RT: 14.545 min Scan# 1967  
Delta R.T. 0.062 min  
Lab File: BG060731.D  
Acq: 2 Apr 2024 1:43

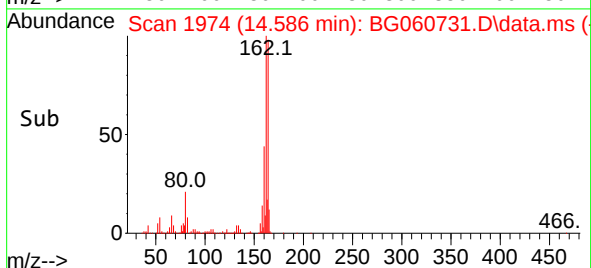
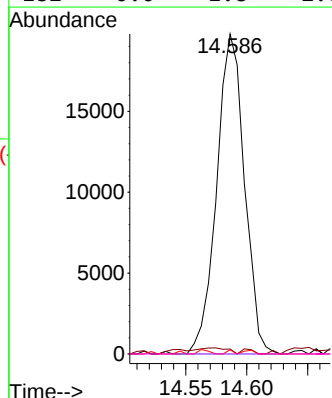
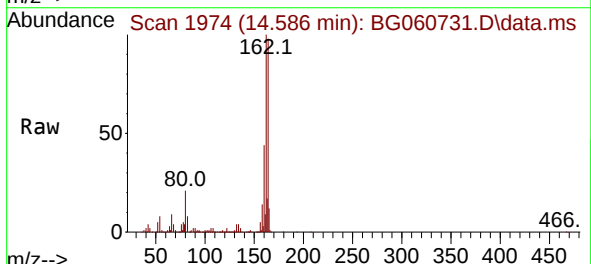
Instrument :  
BNA\_G  
ClientSampleId :  
HS-01(0-6)

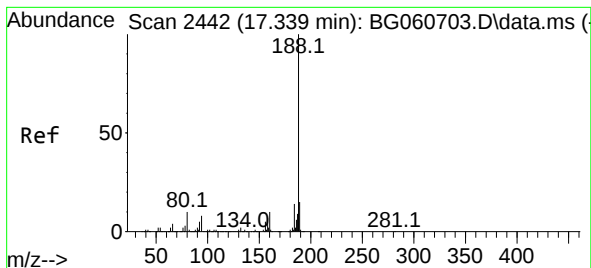
Tgt Ion:138 Resp: 55  
Ion Ratio Lower Upper  
138 100  
108 0.0 11.3 16.9#  
92 0.0 94.1 141.1#



#57  
2,4-Dinitrotoluene  
Concen: 9.886 ng  
RT: 14.586 min Scan# 1974  
Delta R.T. -0.355 min  
Lab File: BG060731.D  
Acq: 2 Apr 2024 1:43

Tgt Ion:165 Resp: 31311  
Ion Ratio Lower Upper  
165 100  
63 1.6 43.4 65.0#  
89 1.3 61.0 91.6#  
182 0.0 1.8 2.6#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.336 min Scan# 24

Delta R.T. -0.003 min

Lab File: BG060731.D

Acq: 2 Apr 2024 1:43

Instrument :

BNA\_G

ClientSampleId :

HS-01(0-6)

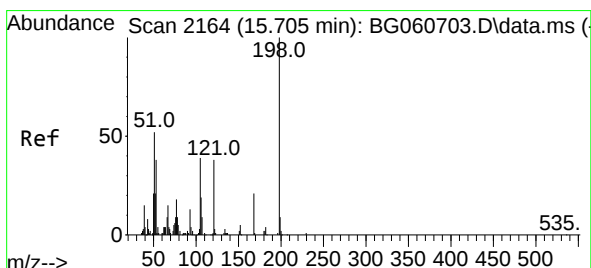
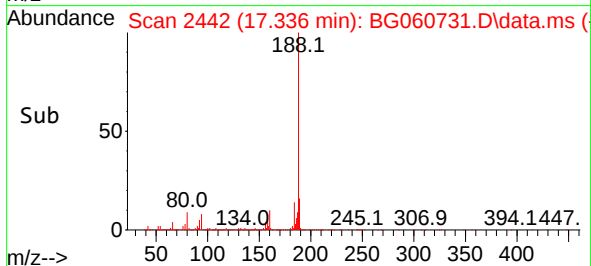
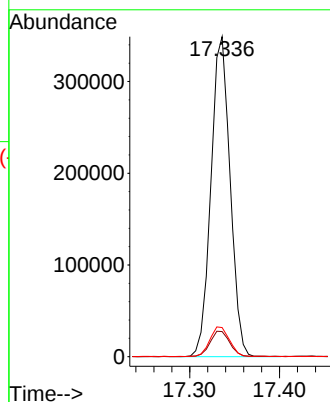
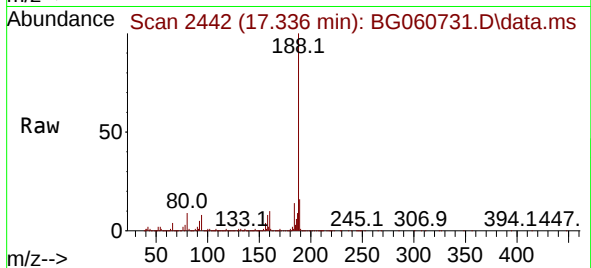
Tgt Ion:188 Resp: 516748

Ion Ratio Lower Upper

188 100

94 7.8 6.6 9.8

80 9.1 7.6 11.4



#65

4,6-Dinitro-2-methylphenol

Concen: 7.056 ng

RT: 15.791 min Scan# 2179

Delta R.T. 0.086 min

Lab File: BG060731.D

Acq: 2 Apr 2024 1:43

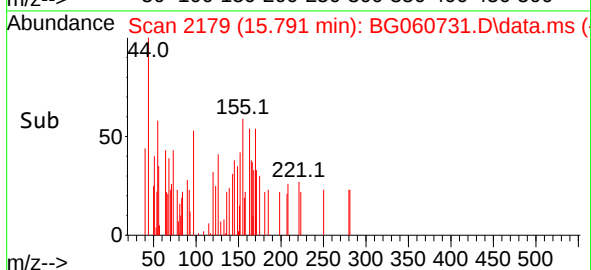
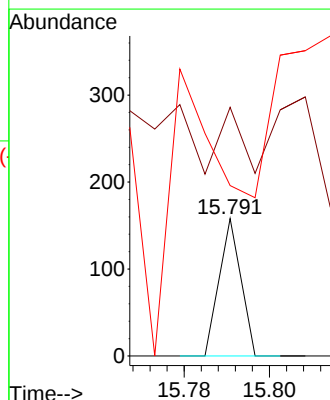
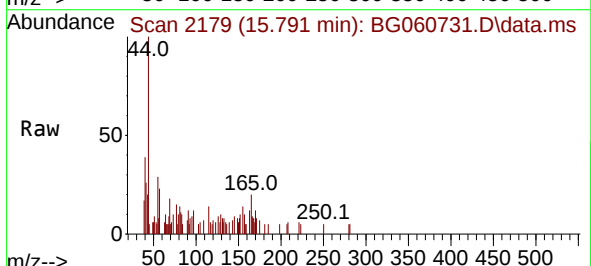
Tgt Ion:198 Resp: 56

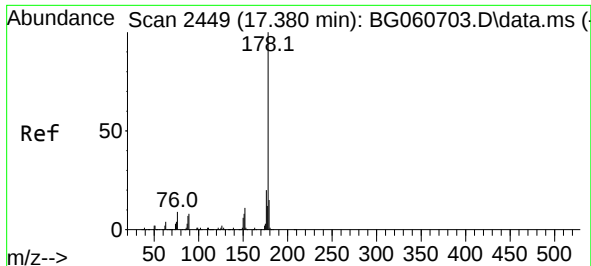
Ion Ratio Lower Upper

198 100

51 181.0 36.7 76.7#

105 124.1 19.1 59.1#

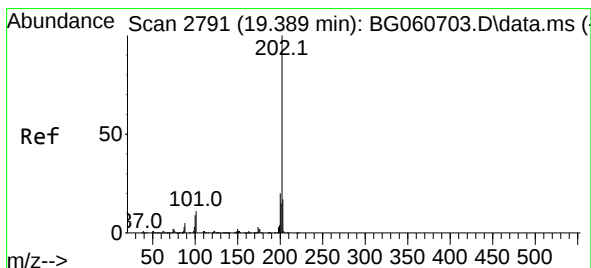
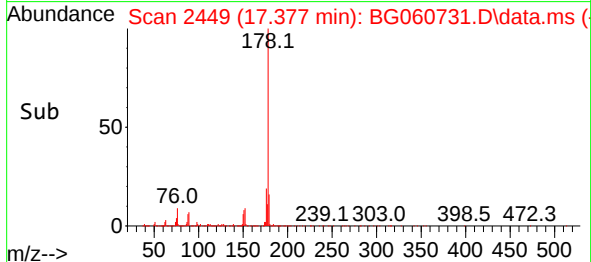
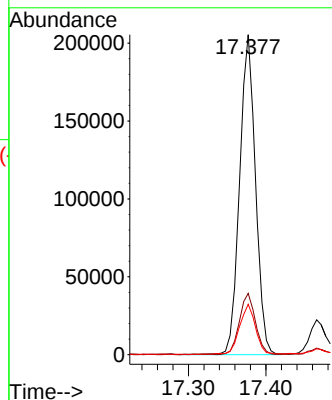
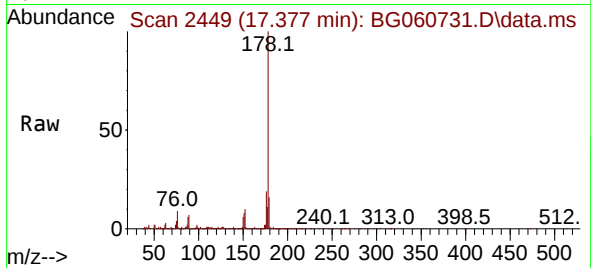




#71  
Phenanthrene  
Concen: 10.889 ng  
RT: 17.377 min Scan# 2449  
Delta R.T. -0.003 min  
Lab File: BG060731.D  
Acq: 2 Apr 2024 1:43

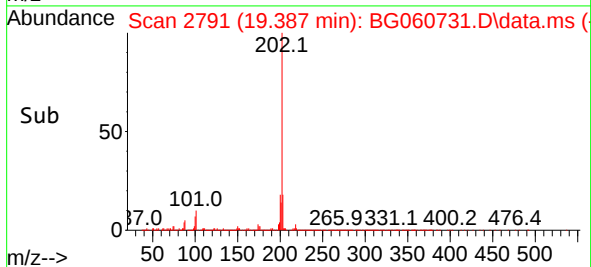
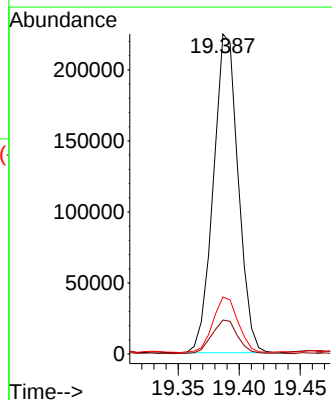
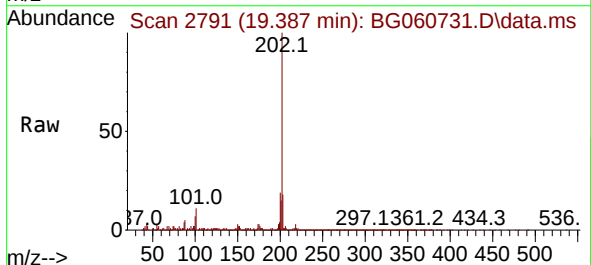
Instrument :  
BNA\_G  
ClientSampleId :  
HS-01(0-6)

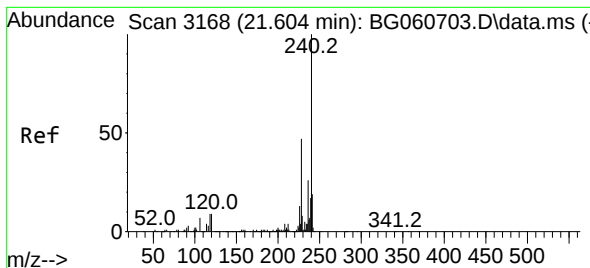
Tgt Ion:178 Resp: 292642  
Ion Ratio Lower Upper  
178 100  
176 19.2 15.8 23.6  
179 15.7 12.2 18.4



#75  
Fluoranthene  
Concen: 9.740 ng  
RT: 19.387 min Scan# 2791  
Delta R.T. -0.003 min  
Lab File: BG060731.D  
Acq: 2 Apr 2024 1:43

Tgt Ion:202 Resp: 317629  
Ion Ratio Lower Upper  
202 100  
101 10.6 0.0 30.8  
203 17.8 0.0 37.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.602 min Scan# 31

Delta R.T. -0.003 min

Lab File: BG060731.D

Acq: 2 Apr 2024 1:43

Instrument :

BNA\_G

ClientSampleId :

HS-01(0-6)

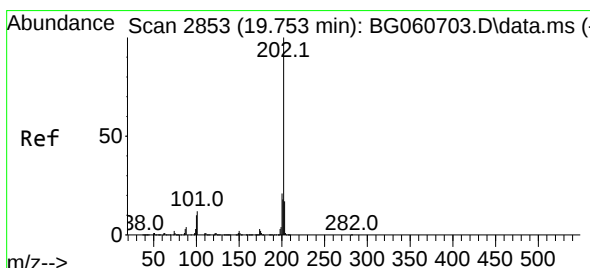
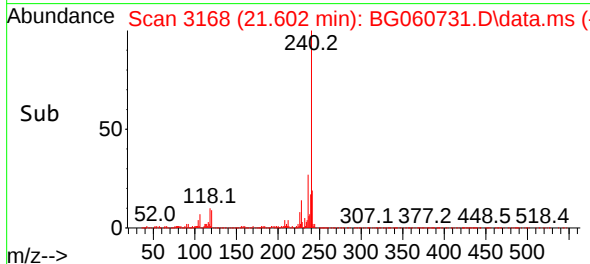
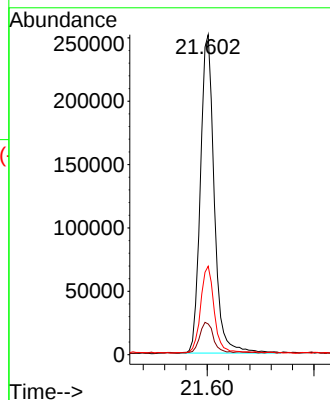
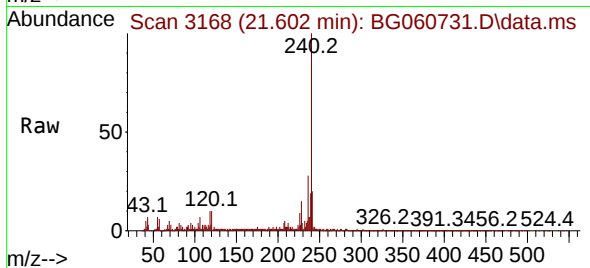
Tgt Ion:240 Resp: 452465

Ion Ratio Lower Upper

240 100

120 9.6 7.1 10.7

236 27.7 20.7 31.1



#78

Pyrene

Concen: 15.313 ng

RT: 19.751 min Scan# 2853

Delta R.T. -0.003 min

Lab File: BG060731.D

Acq: 2 Apr 2024 1:43

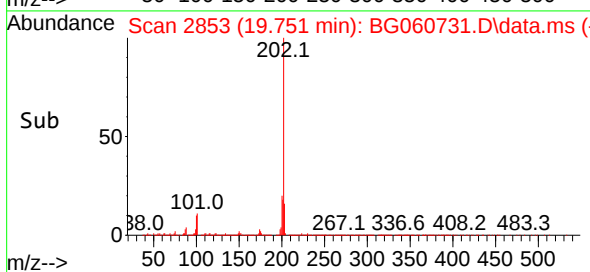
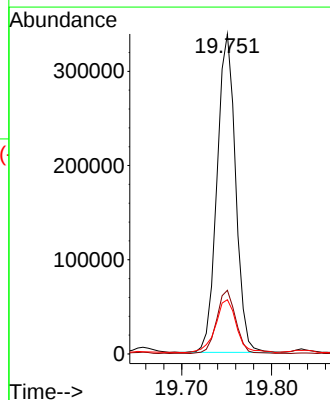
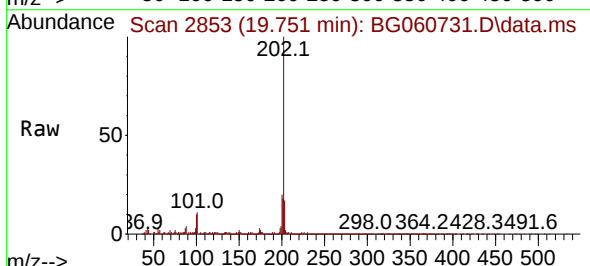
Tgt Ion:202 Resp: 484565

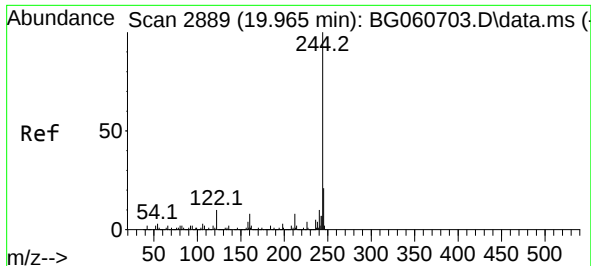
Ion Ratio Lower Upper

202 100

200 19.9 17.0 25.4

203 17.0 14.0 21.0

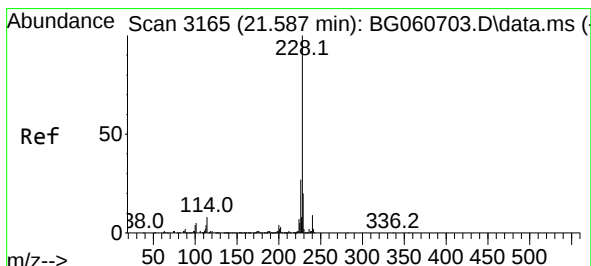
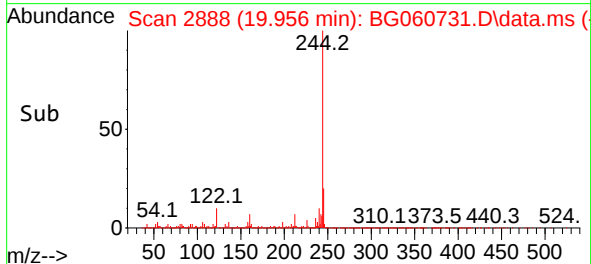
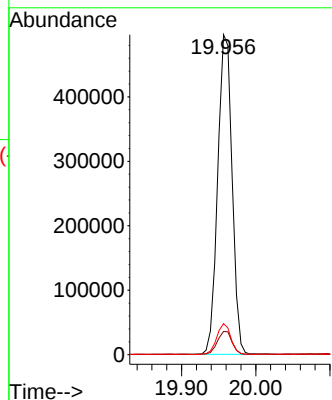
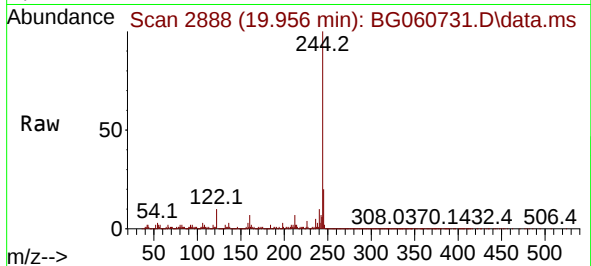




#79  
 Terphenyl-d14  
 Concen: 26.003 ng  
 RT: 19.956 min Scan# 21  
 Delta R.T. -0.009 min  
 Lab File: BG060731.D  
 Acq: 2 Apr 2024 1:43

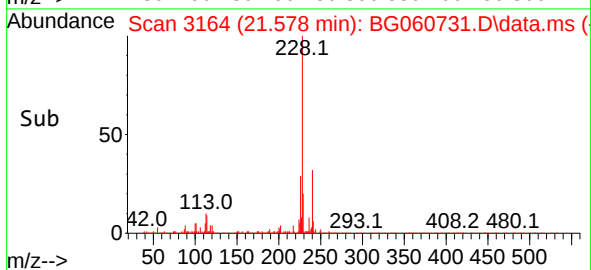
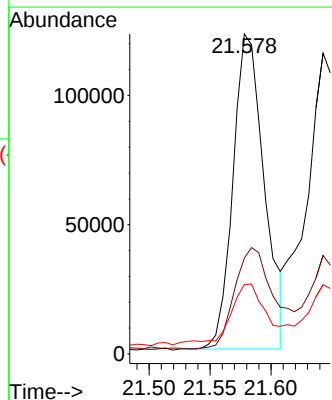
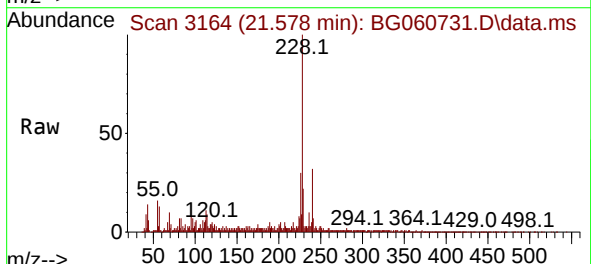
Instrument :  
 BNA\_G  
 ClientSampleId :  
 HS-01(0-6)

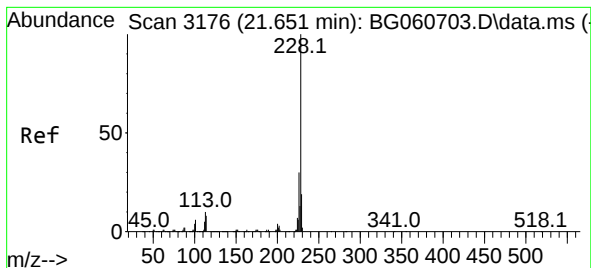
Tgt Ion:244 Resp: 668176  
 Ion Ratio Lower Upper  
 244 100  
 212 7.3 6.2 9.2  
 122 9.7 7.8 11.8



#81  
 Benzo(a)anthracene  
 Concen: 6.832 ng  
 RT: 21.578 min Scan# 3164  
 Delta R.T. -0.009 min  
 Lab File: BG060731.D  
 Acq: 2 Apr 2024 1:43

Tgt Ion:228 Resp: 217910  
 Ion Ratio Lower Upper  
 228 100  
 226 30.0 21.7 32.5  
 229 21.7 15.8 23.8





#83

Chrysene

Concen: 7.195 ng

RT: 21.643 min Scan# 31

Delta R.T. -0.009 min

Lab File: BG060731.D

Acq: 2 Apr 2024 1:43

Instrument :

BNA\_G

ClientSampleId :

HS-01(0-6)

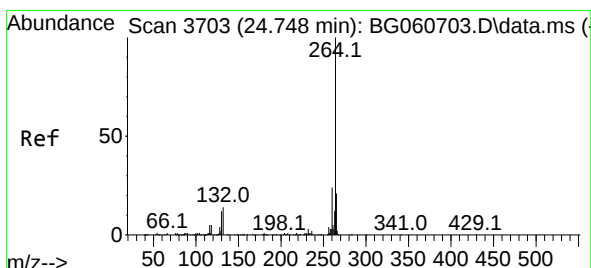
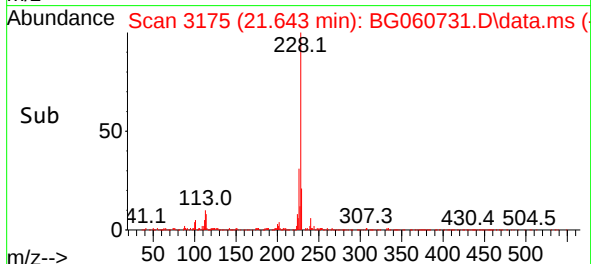
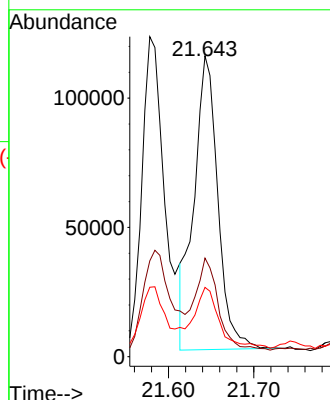
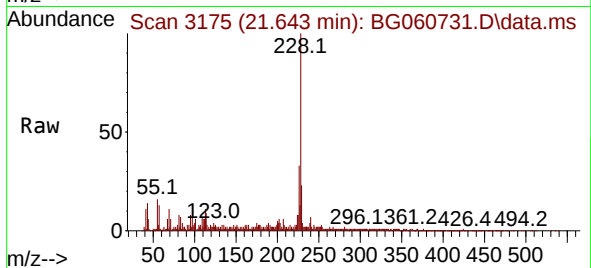
Tgt Ion:228 Resp: 221181

Ion Ratio Lower Upper

228 100

226 32.8 24.2 36.4

229 23.0 15.5 23.3



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.751 min Scan# 3704

Delta R.T. 0.003 min

Lab File: BG060731.D

Acq: 2 Apr 2024 1:43

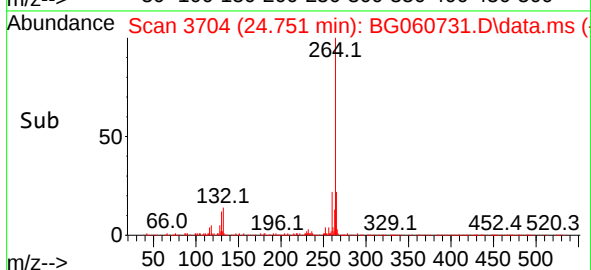
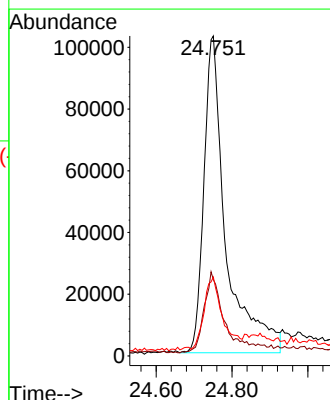
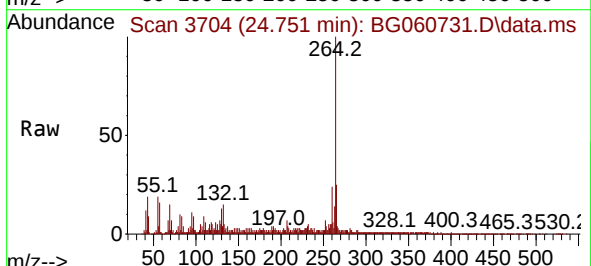
Tgt Ion:264 Resp: 414172

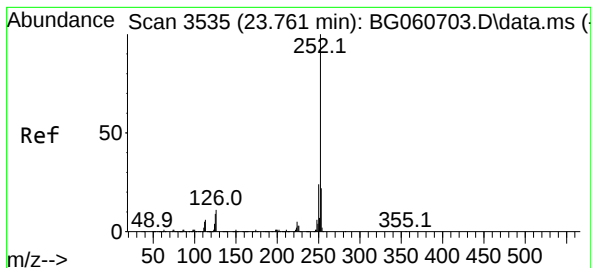
Ion Ratio Lower Upper

264 100

260 23.8 19.5 29.3

265 24.6 16.9 25.3





#88

Benzo(b)fluoranthene

Concen: 11.318 ng

RT: 23.764 min Scan# 3

Delta R.T. 0.003 min

Lab File: BG060731.D

Acq: 2 Apr 2024 1:43

Instrument :

BNA\_G

ClientSampleId :

HS-01(0-6)

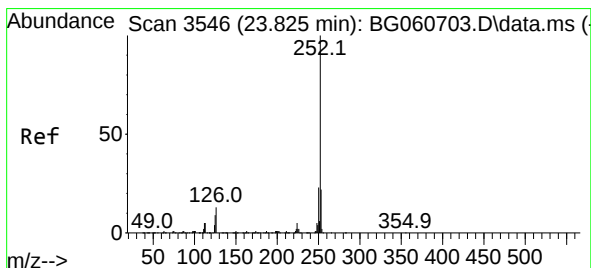
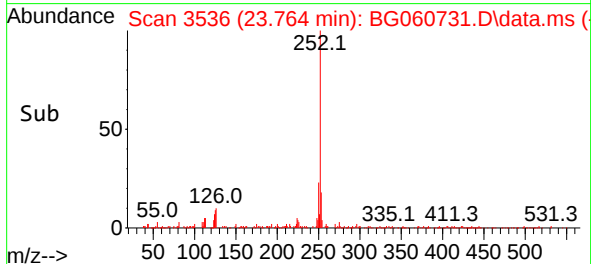
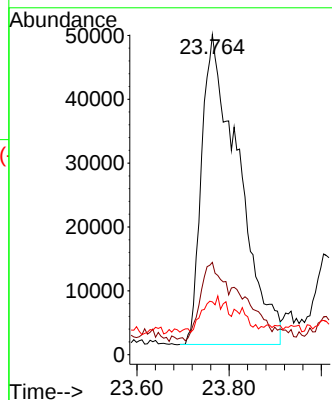
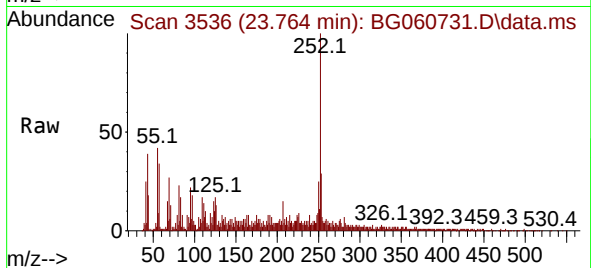
Tgt Ion:252 Resp: 269303

Ion Ratio Lower Upper

252 100

253 28.8 17.8 26.8#

125 16.5 7.1 10.7#



#89

Benzo(k)fluoranthene

Concen: 11.058 ng

RT: 23.764 min Scan# 3536

Delta R.T. -0.061 min

Lab File: BG060731.D

Acq: 2 Apr 2024 1:43

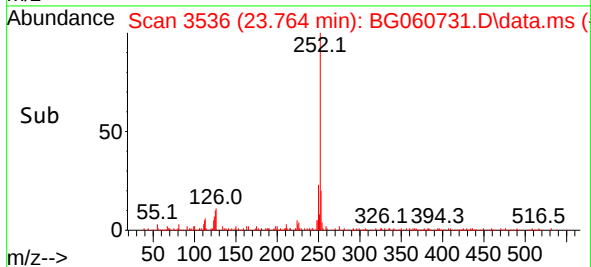
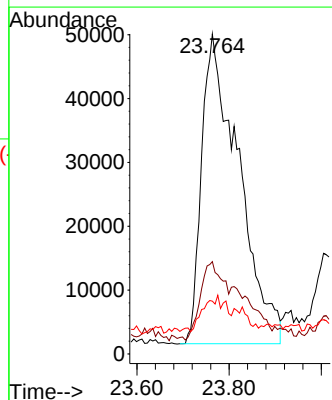
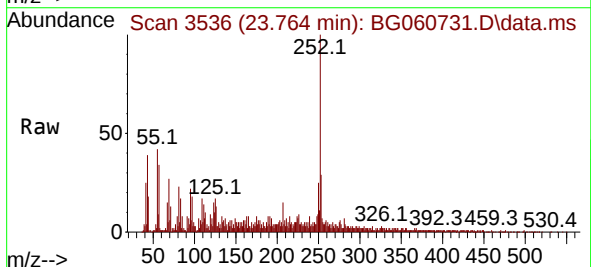
Tgt Ion:252 Resp: 269303

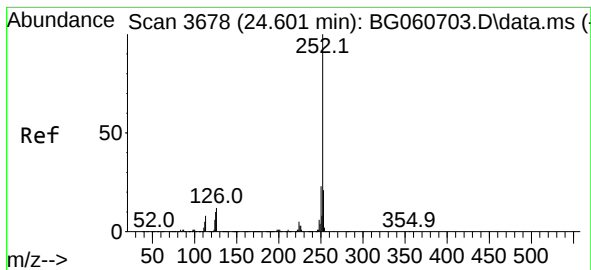
Ion Ratio Lower Upper

252 100

253 28.8 17.6 26.4#

125 16.5 7.5 11.3#





#90

Benzo(a)pyrene

Concen: 6.474 ng

RT: 24.604 min Scan# 3

Delta R.T. 0.003 min

Lab File: BG060731.D

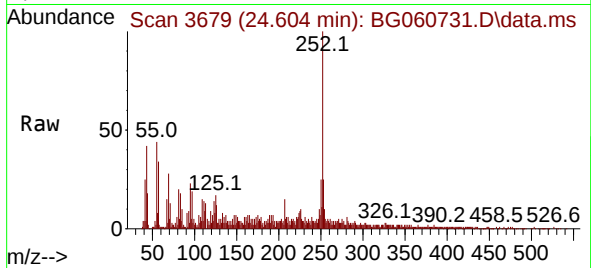
Acq: 2 Apr 2024 1:43

Instrument :

BNA\_G

ClientSampleId :

HS-01(0-6)



Tgt Ion:252 Resp: 149693

Ion Ratio Lower Upper

252 100

253 25.5 16.8 25.2#

125 16.7 7.6 11.4#

