

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040624\  
 Data File : BG060816.D  
 Acq On : 6 Apr 2024 18:15  
 Operator : MA/JU  
 Sample : P1996-07  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Apr 08 02:09:22 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

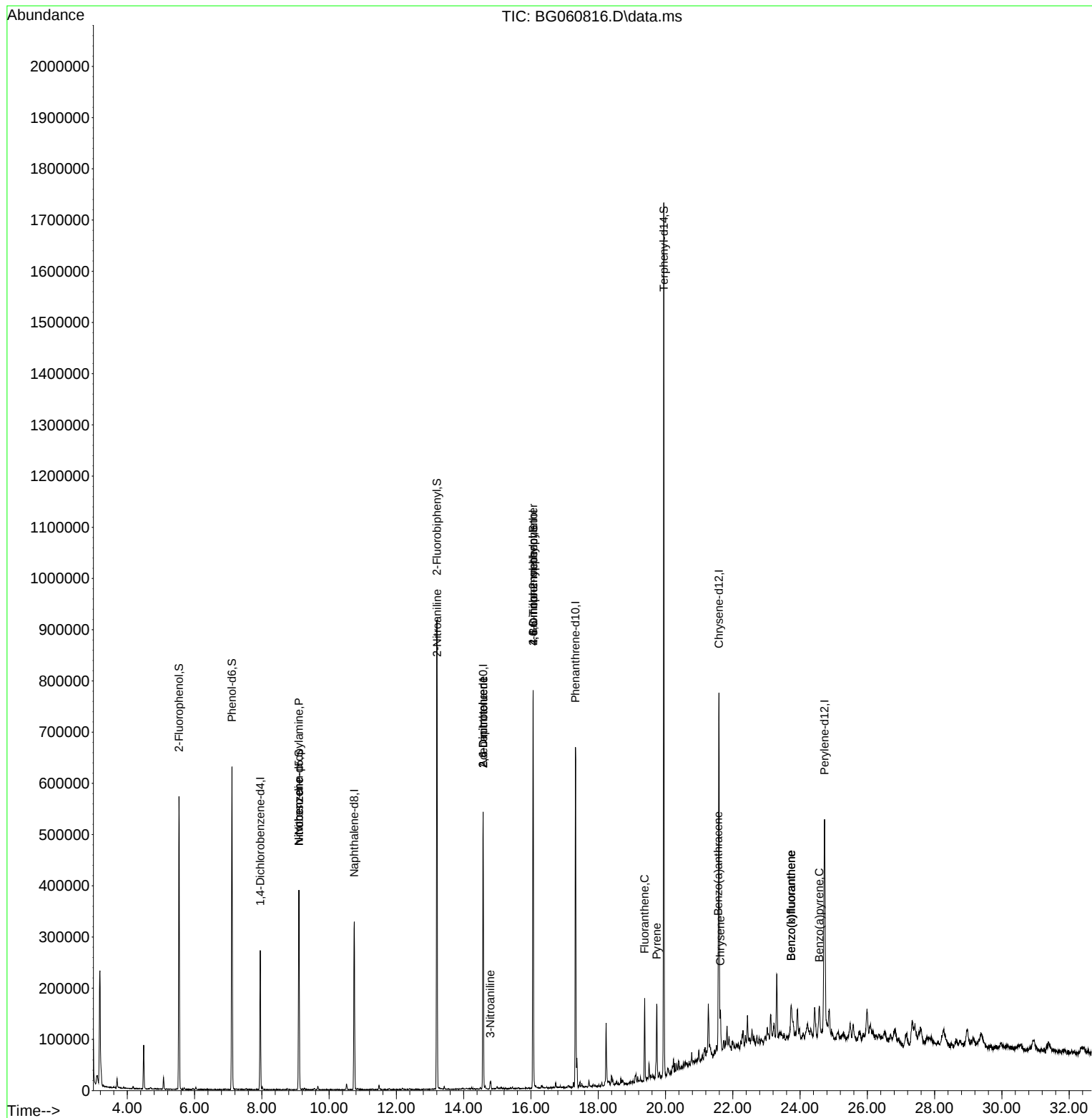
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.953  | 152  | 69519    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.750 | 136  | 264436   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.580 | 164  | 194588   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.324 | 188  | 431239   | 20.000 | ng    | -0.01    |
| 76) Chrysene-d12              | 21.590 | 240  | 412375   | 20.000 | ng    | -0.01    |
| 86) Perylene-d12              | 24.727 | 264  | 487733   | 20.000 | ng    | -0.02    |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.538  | 112  | 227783   | 54.584 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.113  | 99   | 318736   | 51.455 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.104  | 82   | 212420   | 45.837 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.067 | 330  | 159165   | 72.057 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.206 | 172  | 488385   | 36.835 | ng    | -0.01    |
| 79) Terphenyl-d14             | 19.951 | 244  | 842981   | 35.995 | ng    | -0.01    |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 9.104  | 70   | 29481    | 6.241  | ng    | # 73     |
| 24) Nitrobenzene              | 9.104  | 77   | 675      | 2.896  | ng    | # 30     |
| 48) 2-Nitroaniline            | 13.211 | 65   | 1074     | 3.126  | ng    | # 42     |
| 51) 2,6-Dinitrotoluene        | 14.580 | 165  | 24949    | 11.894 | ng    | # 19     |
| 53) 3-Nitroaniline            | 14.792 | 138  | 61       | 2.870  | ng    | # 1      |
| 57) 2,4-Dinitrotoluene        | 14.580 | 165  | 24949    | 10.014 | ng    | # 20     |
| 65) 4,6-Dinitro-2-methylph... | 16.067 | 198  | 459      | 7.254  | ng    | # 39     |
| 67) 4-Bromophenyl-phenylether | 16.067 | 248  | 10794    | 2.466  | ng    | # 1      |
| 75) Fluoranthene              | 19.381 | 202  | 95021    | 3.491  | ng    | 96       |
| 78) Pyrene                    | 19.739 | 202  | 95411    | 3.308  | ng    | 96       |
| 81) Benzo(a)anthracene        | 21.566 | 228  | 62591    | 2.153  | ng    | 97       |
| 83) Chrysene                  | 21.631 | 228  | 57333    | 2.046  | ng    | 99       |
| 88) Benzo(b)fluoranthene      | 23.734 | 252  | 80411    | 2.870  | ng    | 95       |
| 89) Benzo(k)fluoranthene      | 23.734 | 252  | 80411    | 2.804  | ng    | 95       |
| 90) Benzo(a)pyrene            | 24.575 | 252  | 67775    | 2.489  | ng    | 99       |
| -----                         |        |      |          |        |       |          |

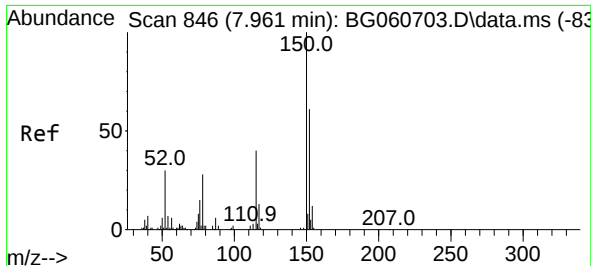
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040624\  
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QLast Update : Sat Mar 30 03:12:26 2024  
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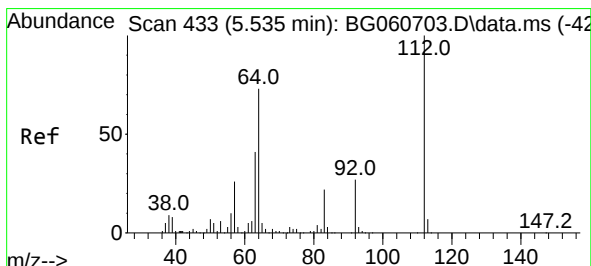
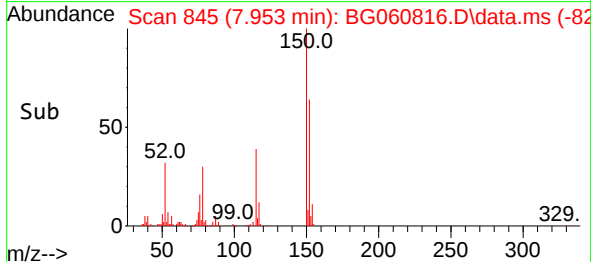
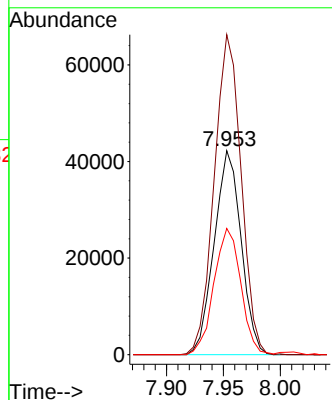
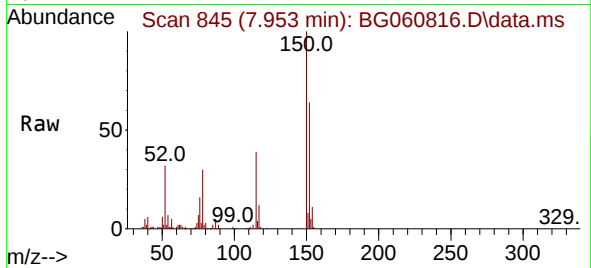




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 7.953 min Scan# 84  
 Delta R.T. -0.008 min  
 Lab File: BG060816.D  
 Acq: 6 Apr 2024 18:15

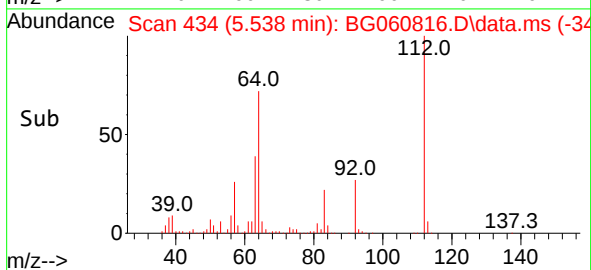
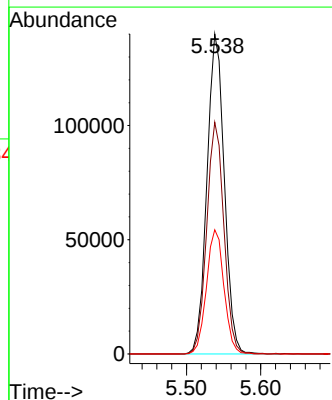
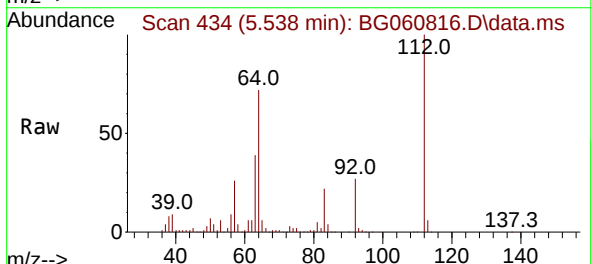
Instrument :  
 BNA\_G  
 ClientSampleId :

Tgt Ion:152 Resp: 69519  
 Ion Ratio Lower Upper  
 152 100  
 150 156.9 130.2 195.4  
 115 61.9 51.6 77.4



#5  
 2-Fluorophenol  
 Concen: 54.584 ng  
 RT: 5.538 min Scan# 434  
 Delta R.T. 0.003 min  
 Lab File: BG060816.D  
 Acq: 6 Apr 2024 18:15

Tgt Ion:112 Resp: 227783  
 Ion Ratio Lower Upper  
 112 100  
 64 72.4 58.4 87.6  
 63 38.8 32.7 49.1





#7

Phenol-d6

Concen: 51.455 ng

RT: 7.113 min Scan# 70

Delta R.T. -0.003 min

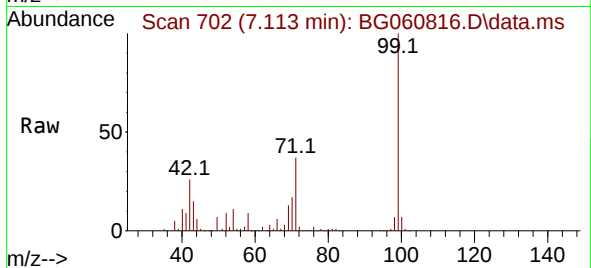
Lab File: BG060816.D

Acq: 6 Apr 2024 18:15

Instrument :

BNA\_G

ClientSampleId :



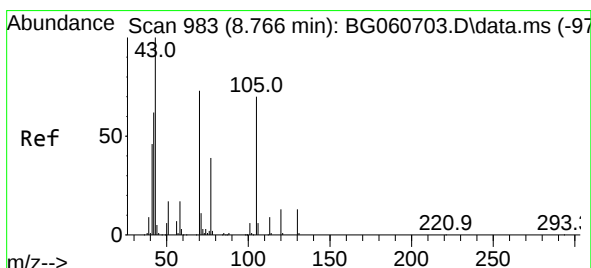
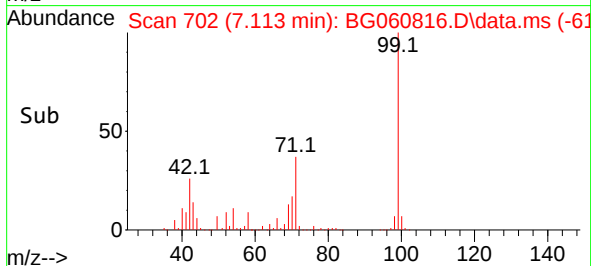
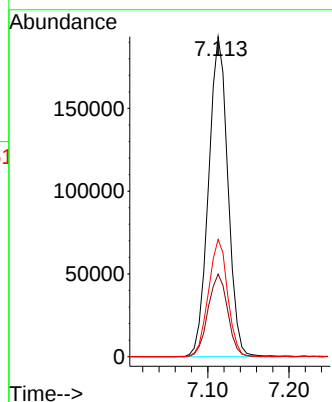
Tgt Ion: 99 Resp: 318736

Ion Ratio Lower Upper

99 100

42 25.8 19.4 29.2

71 36.7 28.2 42.2



#19

n-Nitroso-di-n-propylamine

Concen: 6.241 ng

RT: 9.104 min Scan# 1041

Delta R.T. 0.338 min

Lab File: BG060816.D

Acq: 6 Apr 2024 18:15

Tgt Ion: 70 Resp: 29481

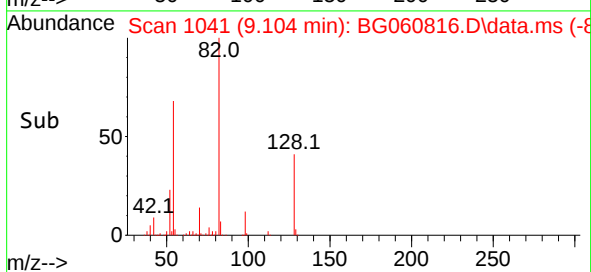
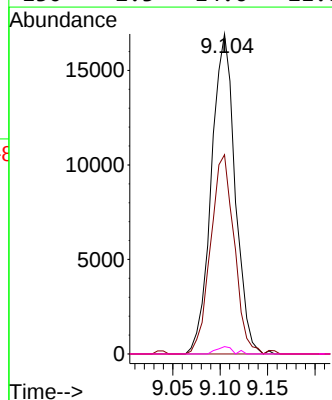
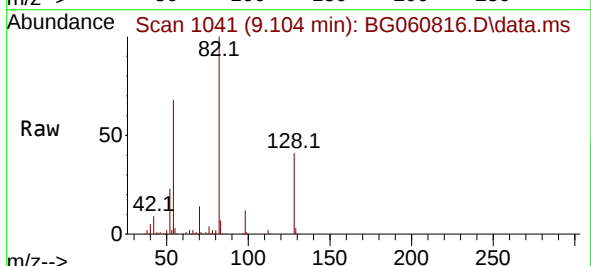
Ion Ratio Lower Upper

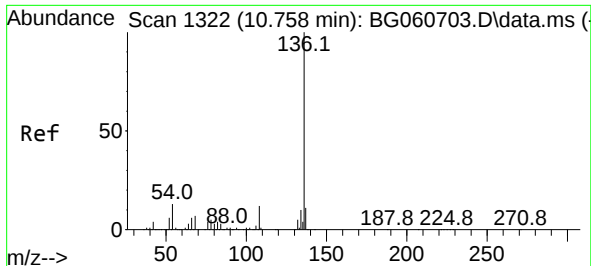
70 100

42 62.2 68.4 102.6#

101 0.0 6.1 9.1#

130 2.3 14.6 21.8#

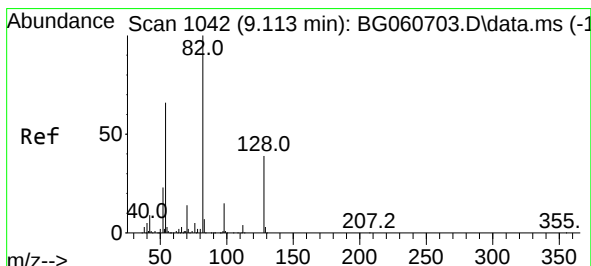
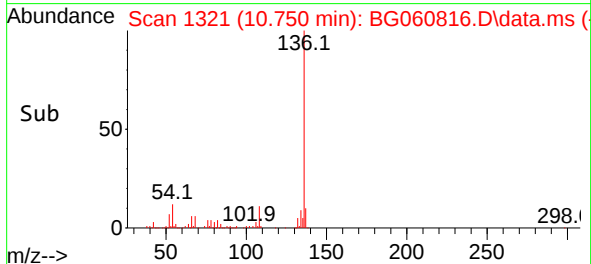
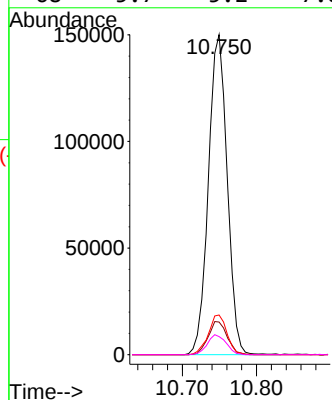
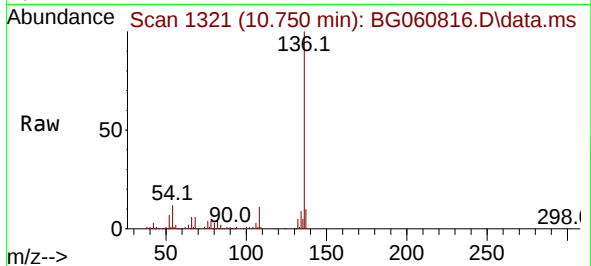




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.750 min Scan# 11  
Delta R.T. -0.008 min  
Lab File: BG060816.D  
Acq: 6 Apr 2024 18:15

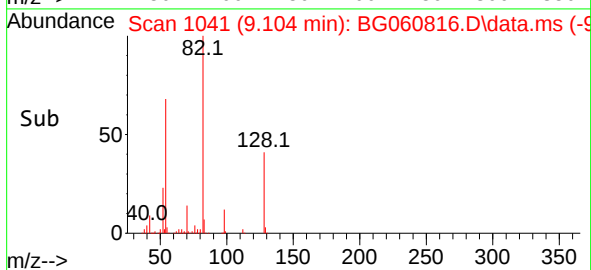
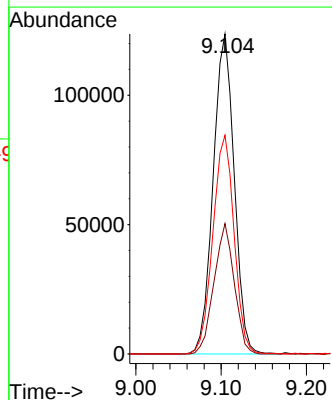
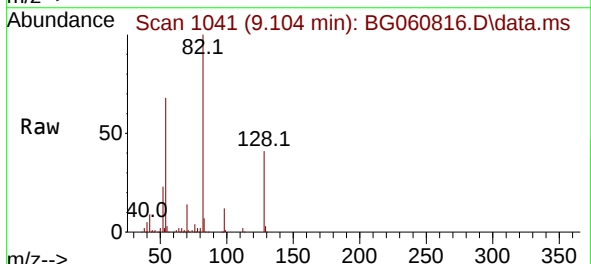
Instrument :  
BNA\_G  
ClientSampleId :

Tgt Ion:136 Resp: 264436  
Ion Ratio Lower Upper  
136 100  
137 10.2 8.8 13.2  
54 12.4 10.2 15.2  
68 5.7 5.2 7.8



#23  
Nitrobenzene-d5  
Concen: 45.837 ng  
RT: 9.104 min Scan# 1041  
Delta R.T. -0.009 min  
Lab File: BG060816.D  
Acq: 6 Apr 2024 18:15

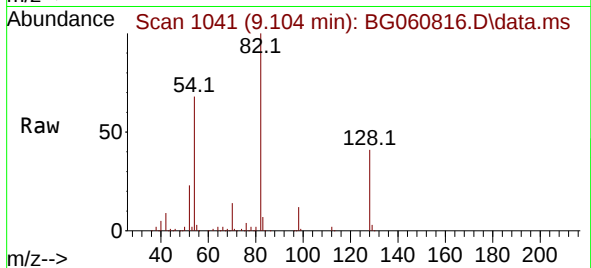
Tgt Ion: 82 Resp: 212420  
Ion Ratio Lower Upper  
82 100  
128 40.8 31.2 46.8  
54 68.3 53.2 79.8



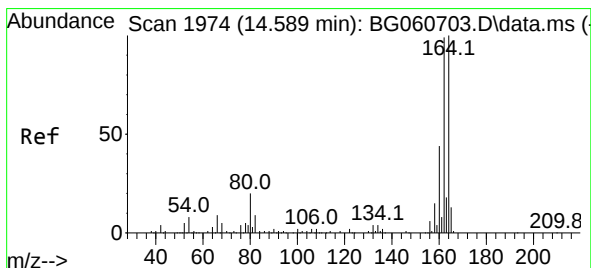
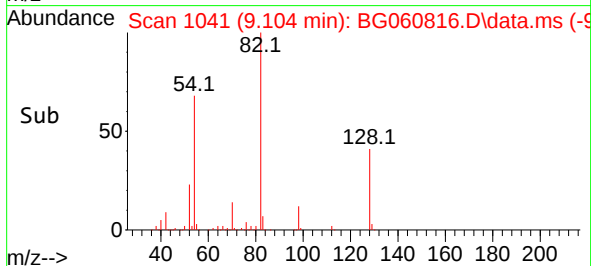
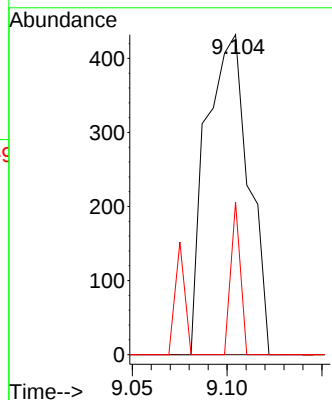


#24  
Nitrobenzene  
Concen: 2.896 ng  
RT: 9.104 min Scan# 1049  
Delta R.T. -0.050 min  
Lab File: BG060816.D  
Acq: 6 Apr 2024 18:15

Instrument :  
BNA\_G  
ClientSampleId :

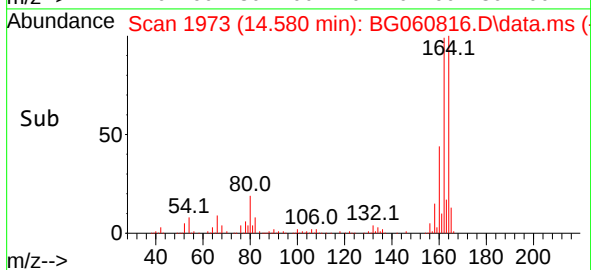
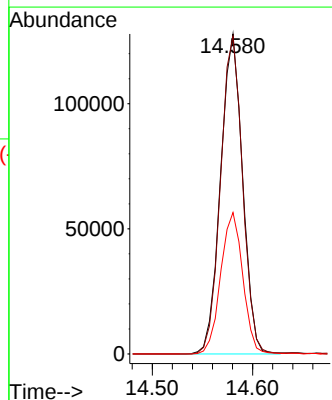
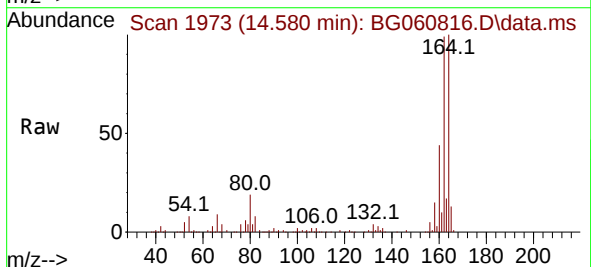


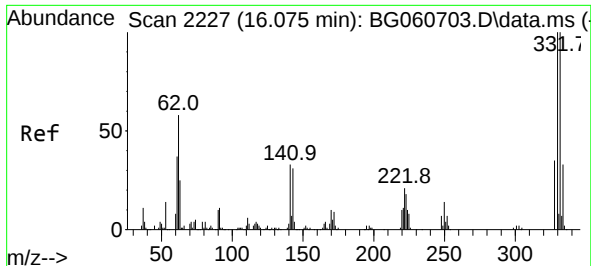
Tgt Ion: 77 Resp: 675  
Ion Ratio Lower Upper  
77 100  
123 0.0 32.7 49.1#  
65 47.7 11.3 16.9#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.580 min Scan# 1973  
Delta R.T. -0.009 min  
Lab File: BG060816.D  
Acq: 6 Apr 2024 18:15

Tgt Ion: 164 Resp: 194588  
Ion Ratio Lower Upper  
164 100  
162 99.3 79.5 119.3  
160 44.2 35.4 53.0





#42

2,4,6-Tribromophenol

Concen: 72.057 ng

RT: 16.067 min Scan# 21

Delta R.T. -0.009 min

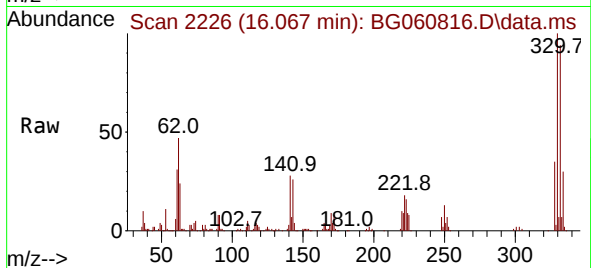
Lab File: BG060816.D

Acq: 6 Apr 2024 18:15

Instrument :

BNA\_G

ClientSampleId :



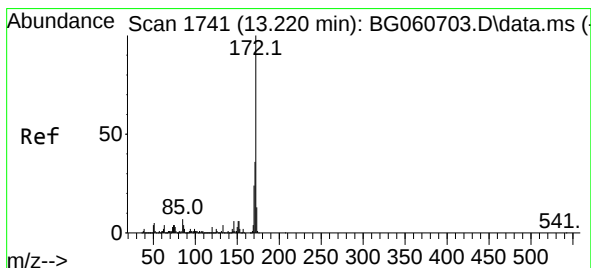
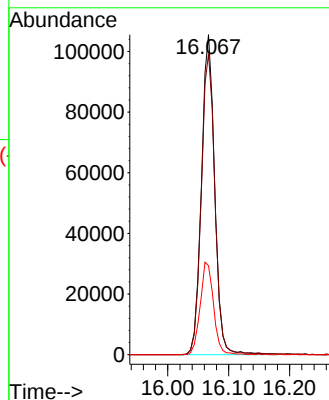
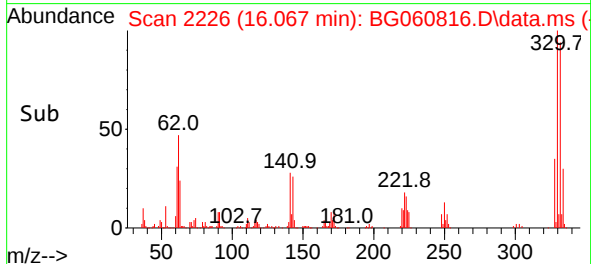
Tgt Ion:330 Resp: 159165

Ion Ratio Lower Upper

330 100

332 95.9 78.2 117.4

141 29.2 27.0 40.6



#45

2-Fluorobiphenyl

Concen: 36.835 ng

RT: 13.206 min Scan# 1739

Delta R.T. -0.014 min

Lab File: BG060816.D

Acq: 6 Apr 2024 18:15

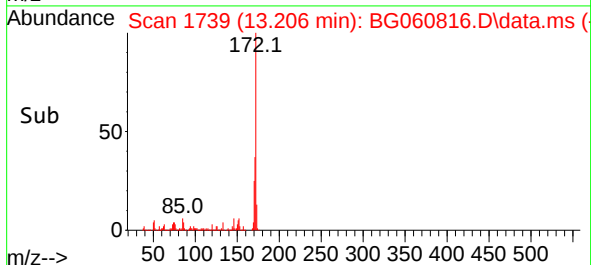
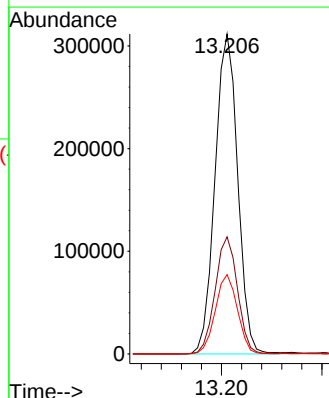
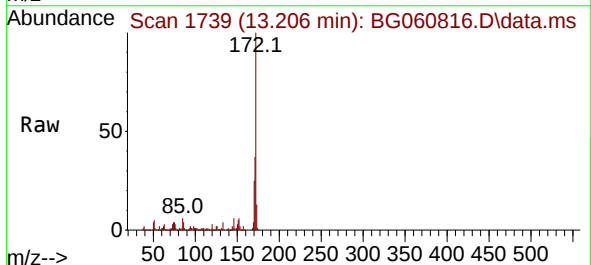
Tgt Ion:172 Resp: 488385

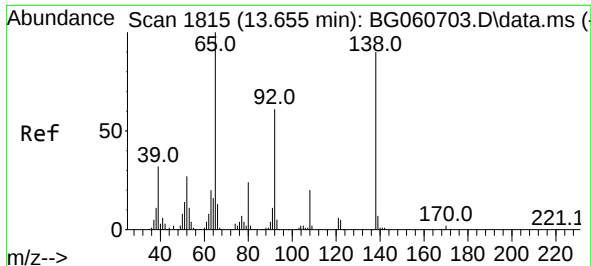
Ion Ratio Lower Upper

172 100

171 36.6 28.7 43.1

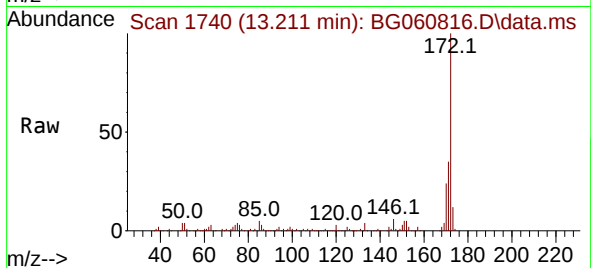
170 24.8 19.4 29.0



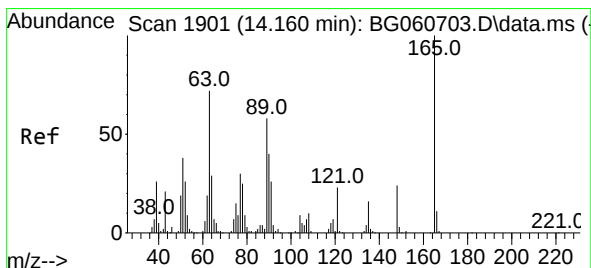
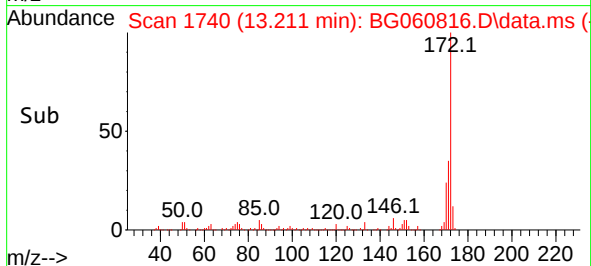
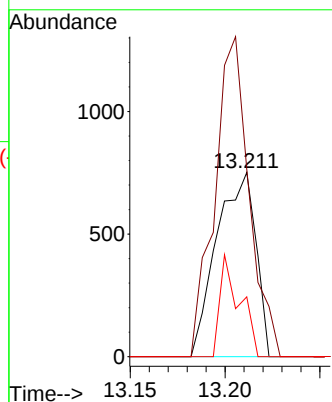


#48  
2-Nitroaniline  
Concen: 3.126 ng  
RT: 13.211 min Scan# 1  
Delta R.T. -0.444 min  
Lab File: BG060816.D  
Acq: 6 Apr 2024 18:15

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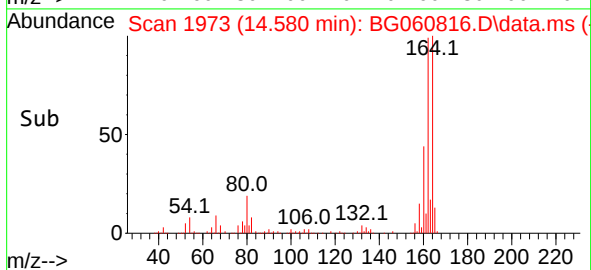
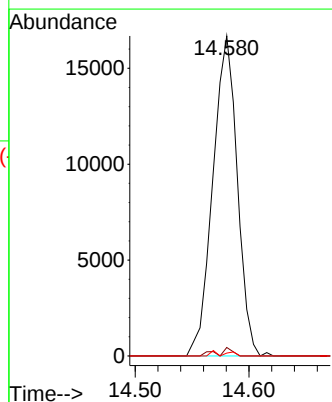
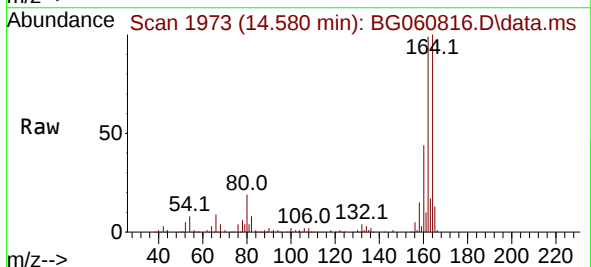


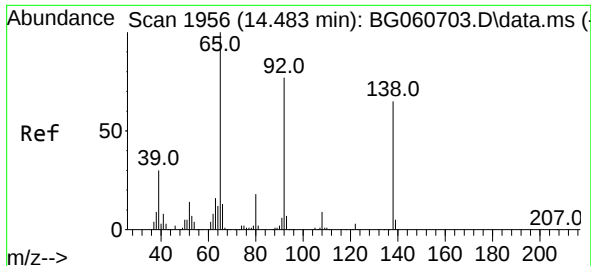
Tgt Ion: 65 Resp: 1074  
Ion Ratio Lower Upper  
65 100  
92 101.9 48.6 72.8#  
138 32.5 72.2 108.4#



#51  
2,6-Dinitrotoluene  
Concen: 11.894 ng  
RT: 14.580 min Scan# 1973  
Delta R.T. 0.420 min  
Lab File: BG060816.D  
Acq: 6 Apr 2024 18:15

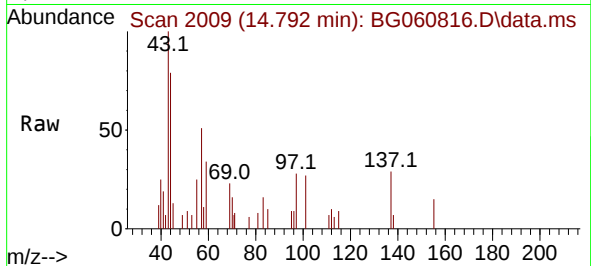
Tgt Ion:165 Resp: 24949  
Ion Ratio Lower Upper  
165 100  
63 2.7 58.2 87.4#  
89 0.9 46.1 69.1#



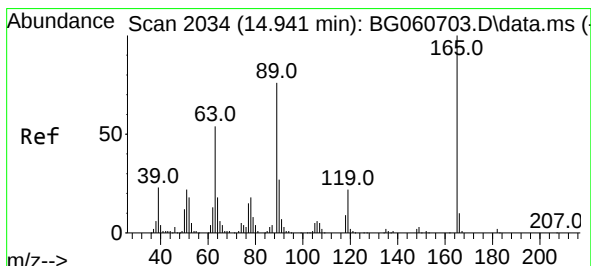
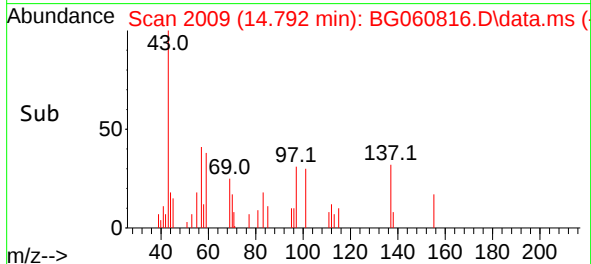
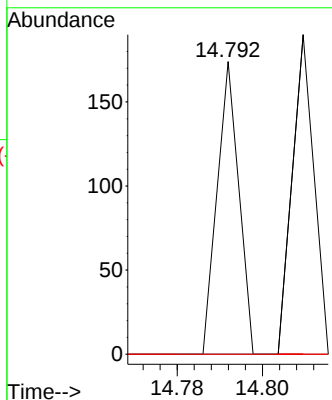


#53  
3-Nitroaniline  
Concen: 2.870 ng  
RT: 14.792 min Scan# 20  
Delta R.T. 0.309 min  
Lab File: BG060816.D  
Acq: 6 Apr 2024 18:15

Instrument :  
BNA\_G  
ClientSampleId :

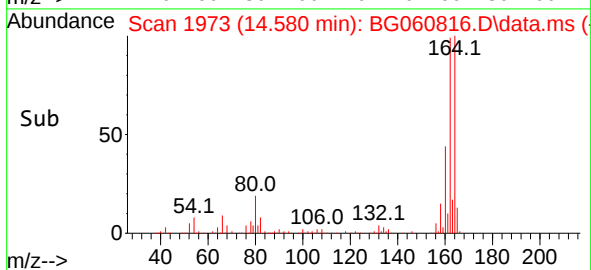
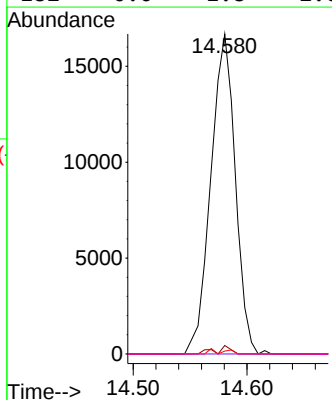
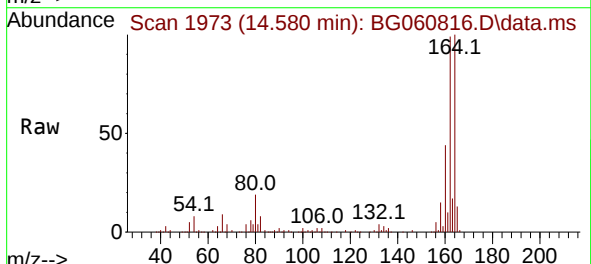


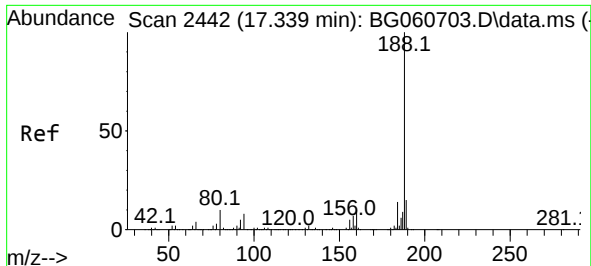
Tgt Ion:138 Resp: 61  
Ion Ratio Lower Upper  
138 100  
108 0.0 11.3 16.9#  
92 0.0 94.1 141.1#



#57  
2,4-Dinitrotoluene  
Concen: 10.014 ng  
RT: 14.580 min Scan# 1973  
Delta R.T. -0.361 min  
Lab File: BG060816.D  
Acq: 6 Apr 2024 18:15

Tgt Ion:165 Resp: 24949  
Ion Ratio Lower Upper  
165 100  
63 2.7 43.4 65.0#  
89 0.9 61.0 91.6#  
182 0.0 1.8 2.6#

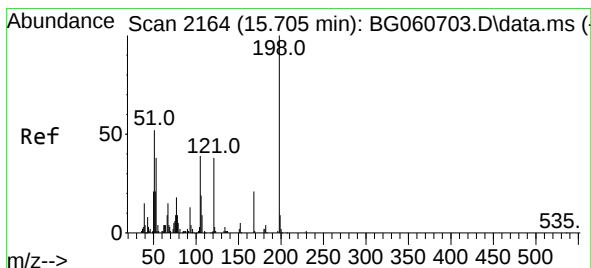
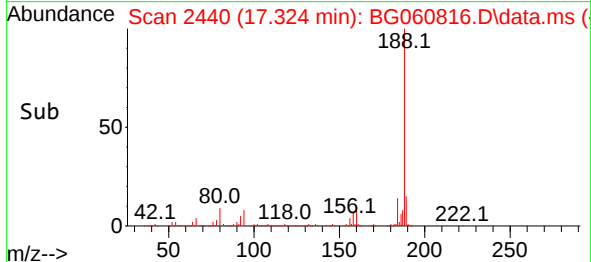
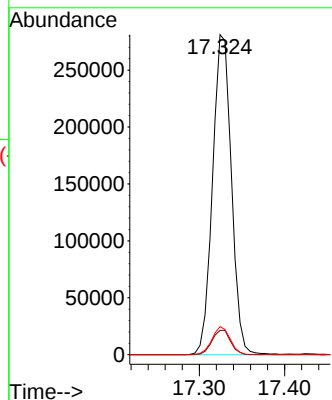
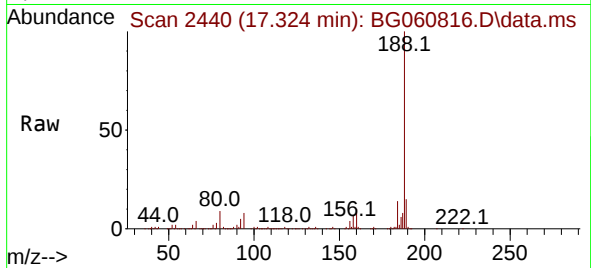




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.324 min Scan# 2442  
Delta R.T. -0.014 min  
Lab File: BG060816.D  
Acq: 6 Apr 2024 18:15

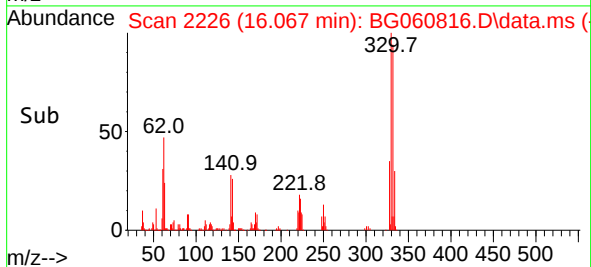
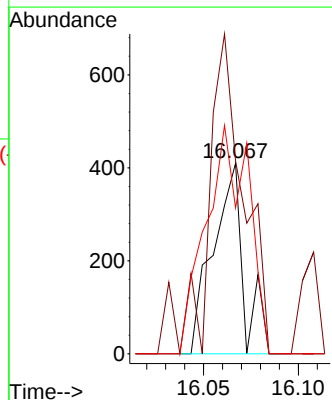
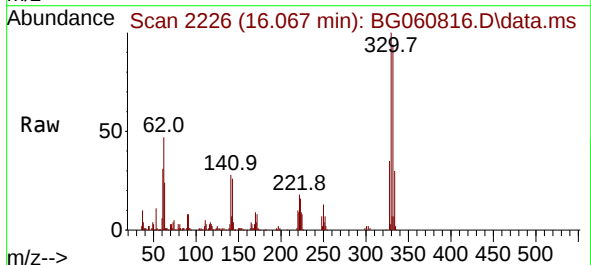
Instrument :  
BNA\_G  
ClientSampleId :

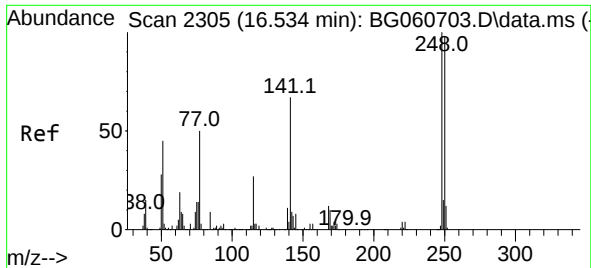
Tgt Ion:188 Resp: 431239  
Ion Ratio Lower Upper  
188 100  
94 7.6 6.6 9.8  
80 8.8 7.6 11.4



#65  
4,6-Dinitro-2-methylphenol  
Concen: 7.254 ng  
RT: 16.067 min Scan# 2226  
Delta R.T. 0.362 min  
Lab File: BG060816.D  
Acq: 6 Apr 2024 18:15

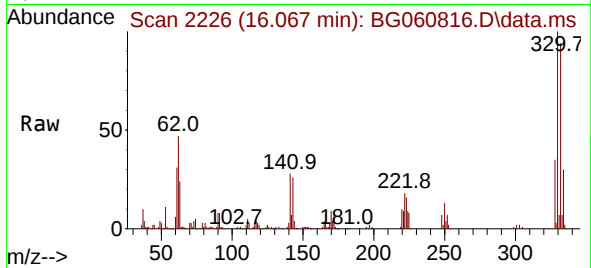
Tgt Ion:198 Resp: 459  
Ion Ratio Lower Upper  
198 100  
51 101.2 36.7 76.7#  
105 76.6 19.1 59.1#



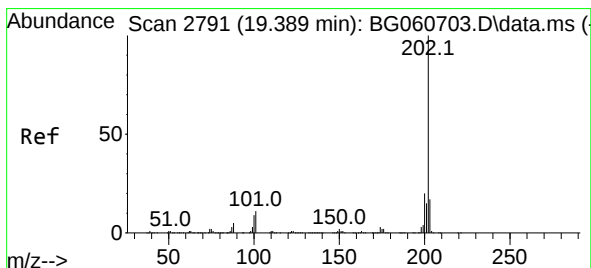
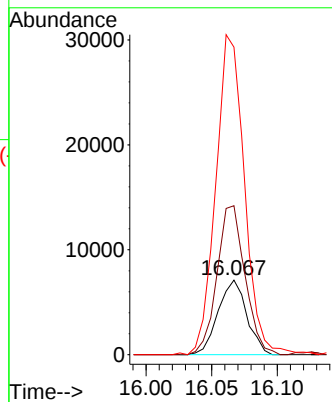
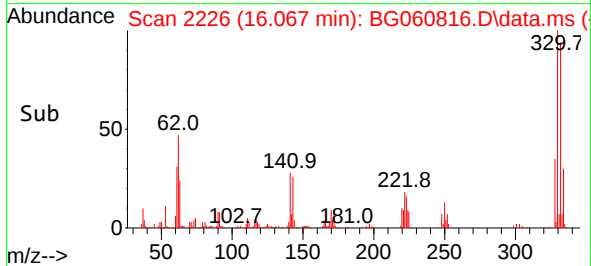


#67  
4-Bromophenyl-phenylether  
Concen: 2.466 ng  
RT: 16.067 min Scan# 21  
Delta R.T. -0.467 min  
Lab File: BG060816.D  
Acq: 6 Apr 2024 18:15

Instrument :  
BNA\_G  
ClientSampleId :

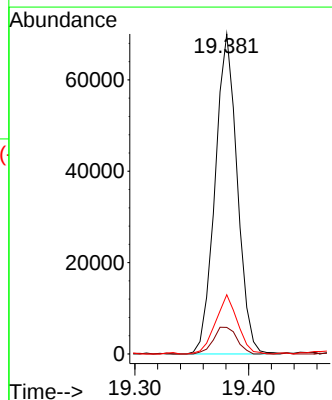
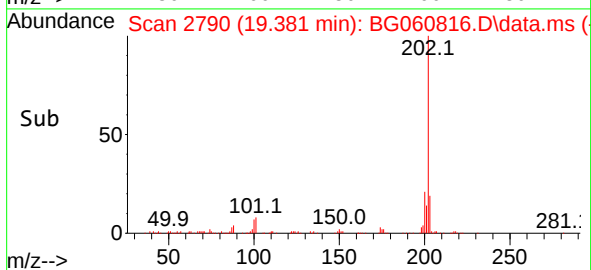
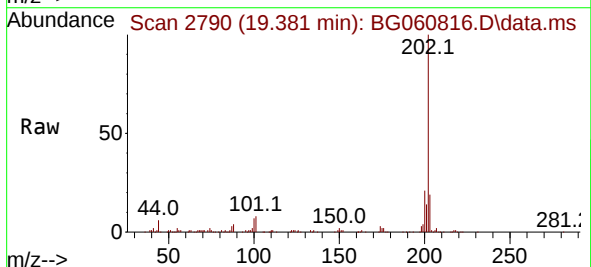


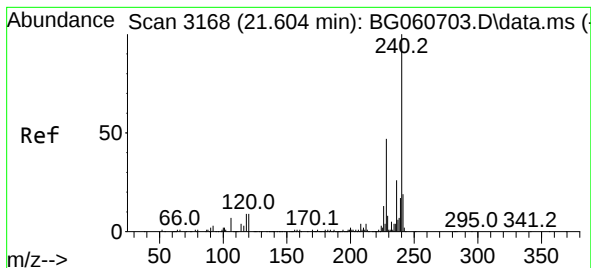
Tgt Ion:248 Resp: 10794  
Ion Ratio Lower Upper  
248 100  
250 199.7 78.3 117.5#  
141 412.5 53.7 80.5#



#75  
Fluoranthene  
Concen: 3.491 ng  
RT: 19.381 min Scan# 2790  
Delta R.T. -0.009 min  
Lab File: BG060816.D  
Acq: 6 Apr 2024 18:15

Tgt Ion:202 Resp: 95021  
Ion Ratio Lower Upper  
202 100  
101 8.3 0.0 30.8  
203 18.5 0.0 37.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.590 min Scan# 3166

Delta R.T. -0.014 min

Lab File: BG060816.D

Acq: 6 Apr 2024 18:15

Instrument :

BNA\_G

ClientSampleId :

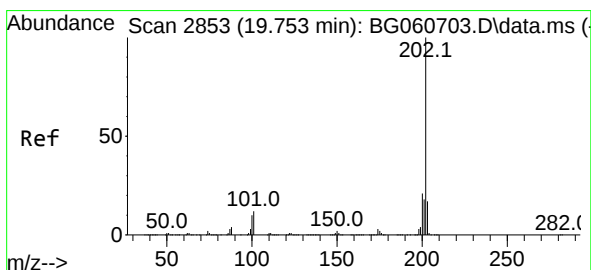
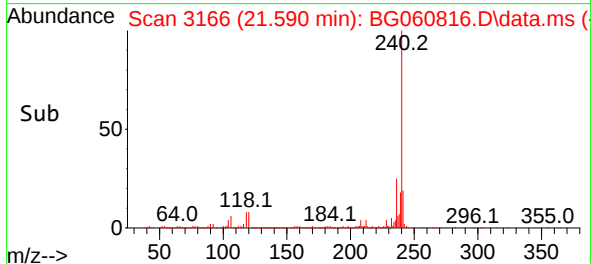
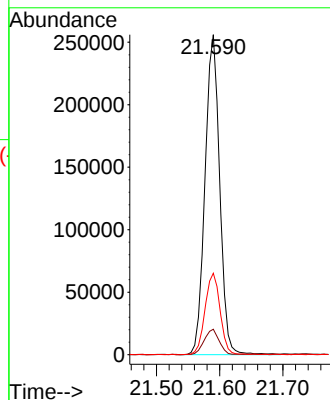
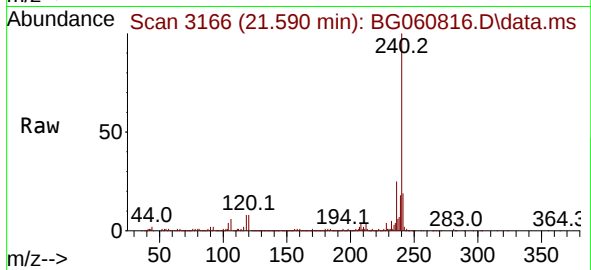
Tgt Ion:240 Resp: 412375

Ion Ratio Lower Upper

240 100

120 8.0 7.1 10.7

236 25.4 20.7 31.1



#78

Pyrene

Concen: 3.308 ng

RT: 19.739 min Scan# 2851

Delta R.T. -0.014 min

Lab File: BG060816.D

Acq: 6 Apr 2024 18:15

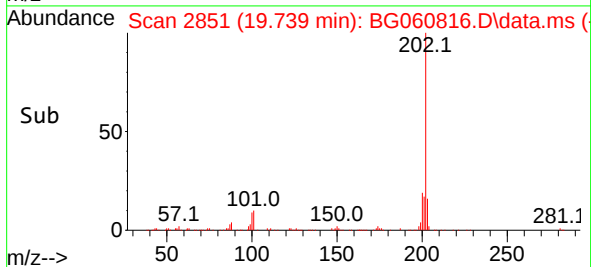
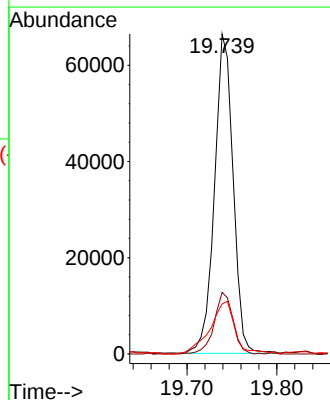
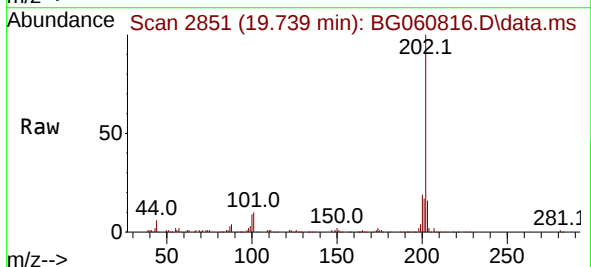
Tgt Ion:202 Resp: 95411

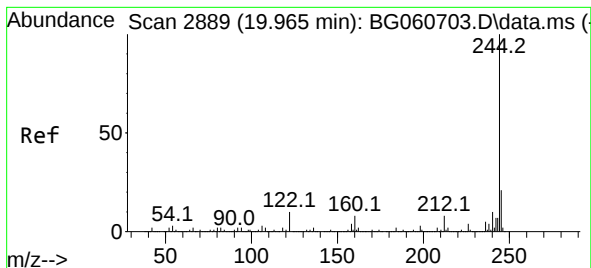
Ion Ratio Lower Upper

202 100

200 19.2 17.0 25.4

203 15.7 14.0 21.0





#79

Terphenyl-d14

Concen: 35.995 ng

RT: 19.951 min Scan# 21

Delta R.T. -0.014 min

Lab File: BG060816.D

Acq: 6 Apr 2024 18:15

Instrument :

BNA\_G

ClientSampleId :

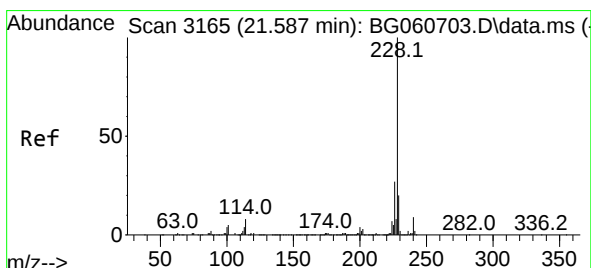
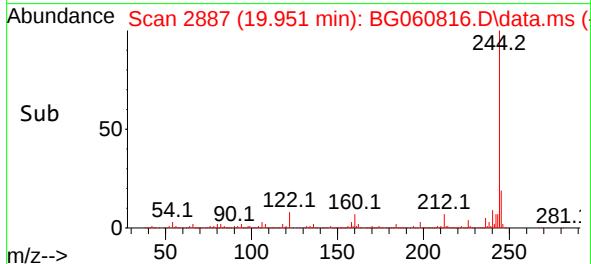
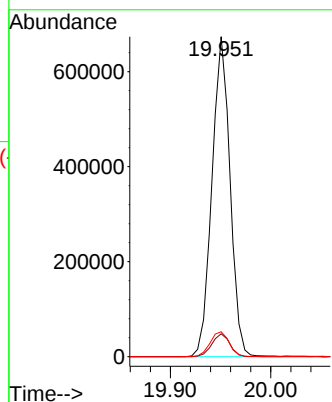
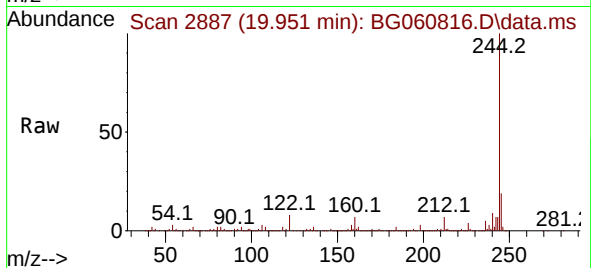
Tgt Ion:244 Resp: 842981

Ion Ratio Lower Upper

244 100

212 7.2 6.2 9.2

122 7.8 7.8 11.8#



#81

Benzo(a)anthracene

Concen: 2.153 ng

RT: 21.566 min Scan# 3162

Delta R.T. -0.020 min

Lab File: BG060816.D

Acq: 6 Apr 2024 18:15

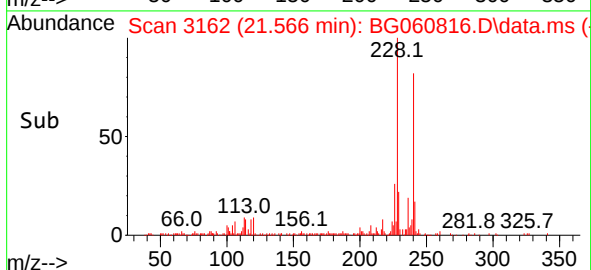
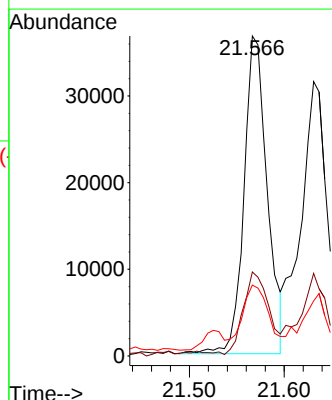
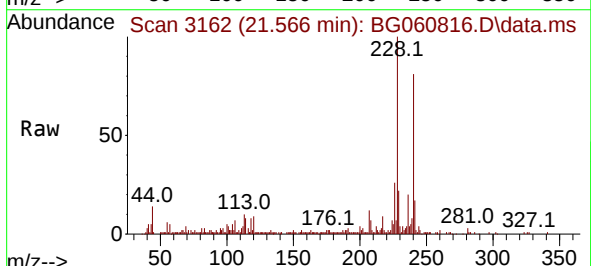
Tgt Ion:228 Resp: 62591

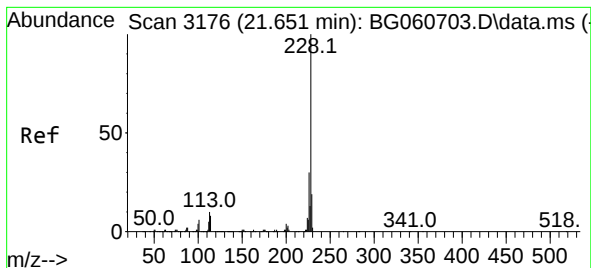
Ion Ratio Lower Upper

228 100

226 26.3 21.7 32.5

229 22.1 15.8 23.8





#83

Chrysene

Concen: 2.046 ng

RT: 21.631 min Scan# 31

Delta R.T. -0.020 min

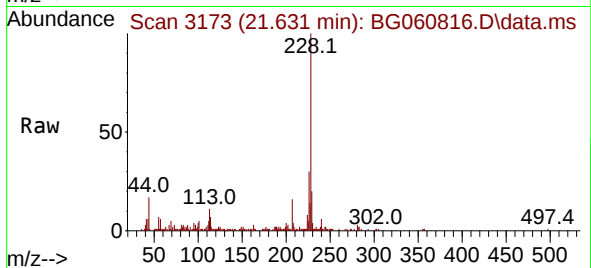
Lab File: BG060816.D

Acq: 6 Apr 2024 18:15

Instrument :

BNA\_G

ClientSampleId :



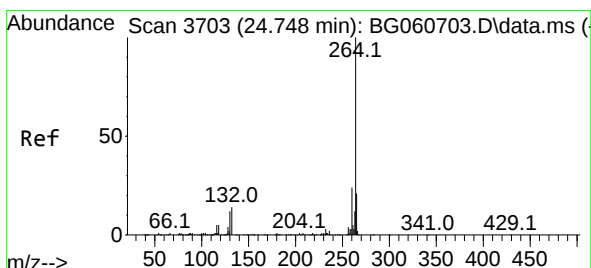
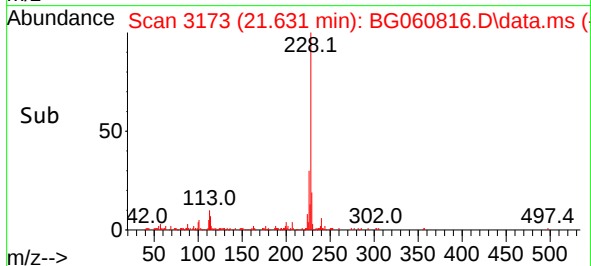
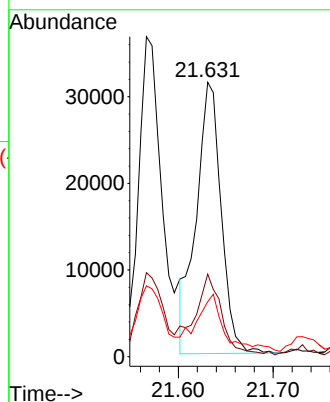
Tgt Ion:228 Resp: 57333

Ion Ratio Lower Upper

228 100

226 30.1 24.2 36.4

229 20.0 15.5 23.3



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.727 min Scan# 3700

Delta R.T. -0.020 min

Lab File: BG060816.D

Acq: 6 Apr 2024 18:15

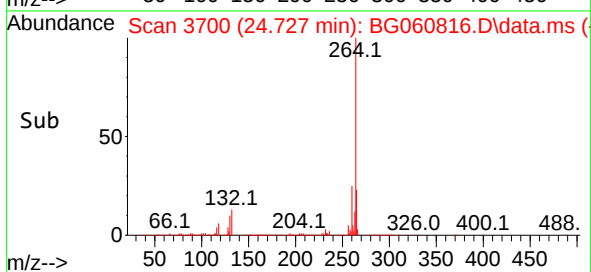
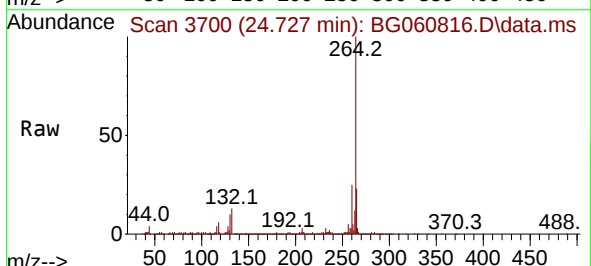
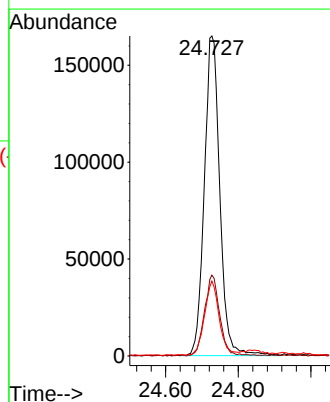
Tgt Ion:264 Resp: 487733

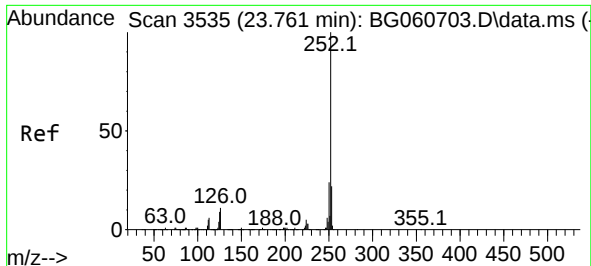
Ion Ratio Lower Upper

264 100

260 25.3 19.5 29.3

265 23.4 16.9 25.3

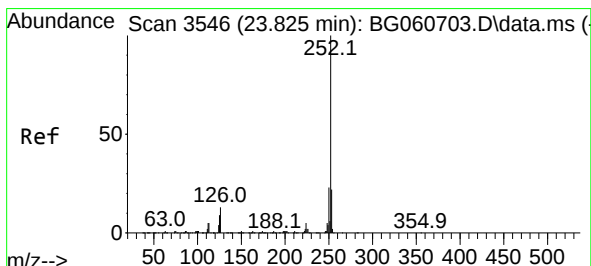
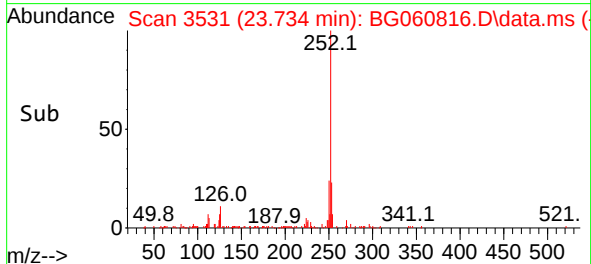
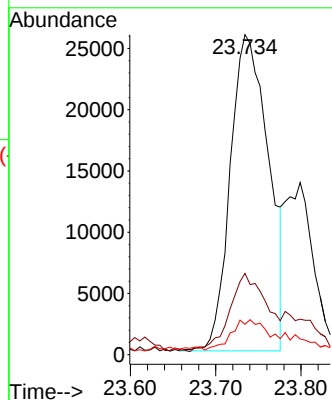
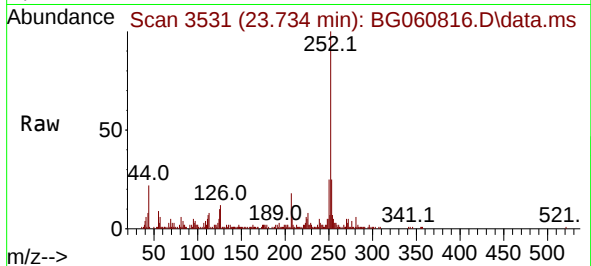




#88  
Benzo(b)fluoranthene  
Concen: 2.870 ng  
RT: 23.734 min Scan# 3531  
Delta R.T. -0.026 min  
Lab File: BG060816.D  
Acq: 6 Apr 2024 18:15

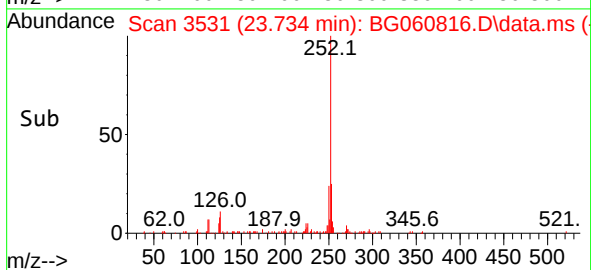
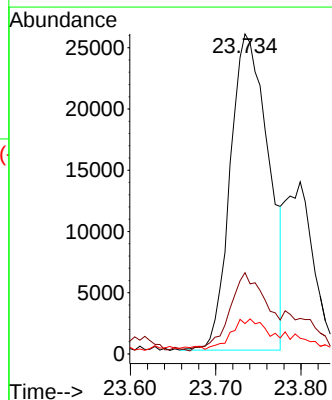
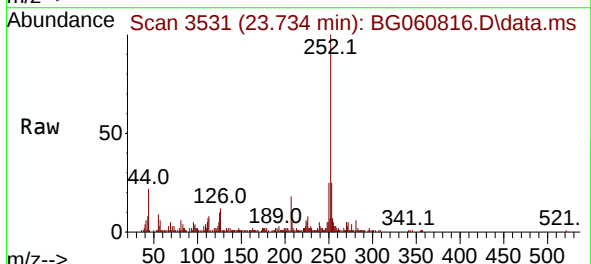
Instrument :  
BNA\_G  
ClientSampleId :

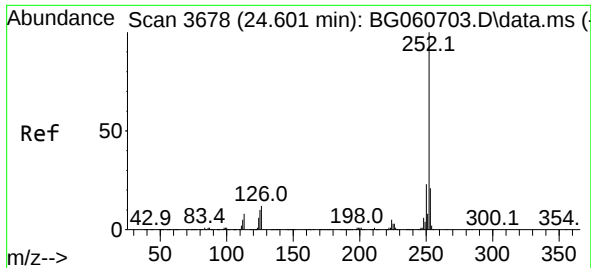
Tgt Ion:252 Resp: 80411  
Ion Ratio Lower Upper  
252 100  
253 25.4 17.8 26.8  
125 9.5 7.1 10.7



#89  
Benzo(k)fluoranthene  
Concen: 2.804 ng  
RT: 23.734 min Scan# 3531  
Delta R.T. -0.091 min  
Lab File: BG060816.D  
Acq: 6 Apr 2024 18:15

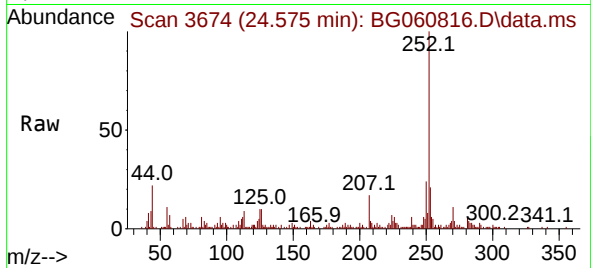
Tgt Ion:252 Resp: 80411  
Ion Ratio Lower Upper  
252 100  
253 25.4 17.6 26.4  
125 9.5 7.5 11.3





#90  
 Benzo(a)pyrene  
 Concen: 2.489 ng  
 RT: 24.575 min Scan# 30  
 Delta R.T. -0.026 min  
 Lab File: BG060816.D  
 Acq: 6 Apr 2024 18:15

Instrument :  
 BNA\_G  
 ClientSampleId :



|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:252 | Resp: | 67775       |
| Ion         | Ratio | Lower Upper |
| 252         | 100   |             |
| 253         | 21.3  | 16.8 25.2   |
| 125         | 9.9   | 7.6 11.4    |

