

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG042524\  
 Data File : BG061042.D  
 Acq On : 25 Apr 2024 18:03  
 Operator : MA/JU  
 Sample : P2258-01 2X  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 OR-03-042424

Quant Time: Apr 25 18:50:51 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG042024.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 22 04:22:00 2024  
 Response via : Initial Calibration

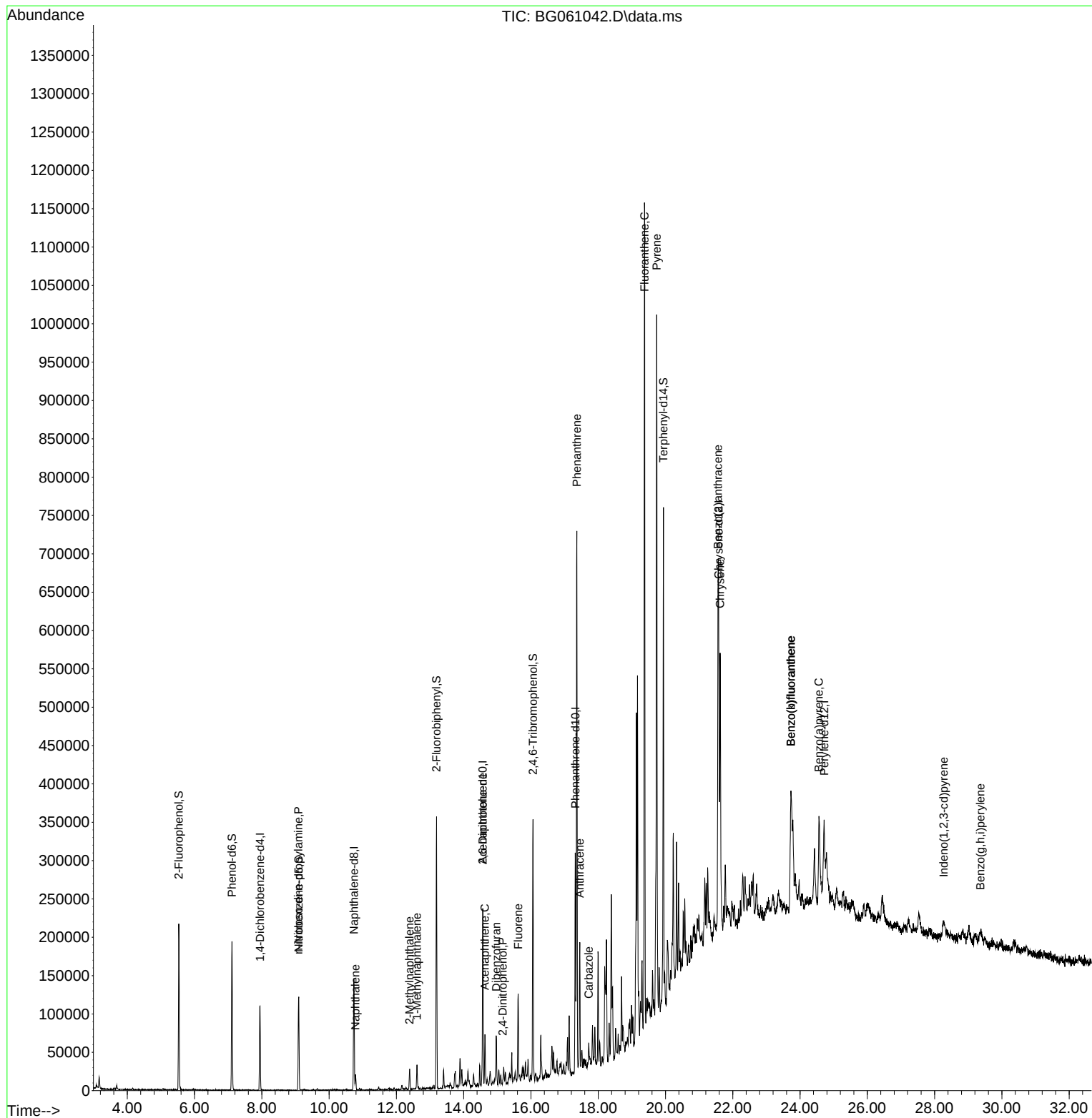
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.947  | 152  | 30458    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.738 | 136  | 111990   | 20.000 | ng    | # 0.00   |
| 39) Acenaphthene-d10          | 14.569 | 164  | 81827    | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.318 | 188  | 187557   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 21.584 | 240  | 191390   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 24.716 | 264  | 151983   | 20.000 | ng    | # 0.02   |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.532  | 112  | 76389    | 50.731 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.113  | 99   | 92584    | 41.440 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.099  | 82   | 63557    | 25.498 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.061 | 330  | 68574    | 38.163 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.194 | 172  | 177298   | 29.988 | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.939 | 244  | 320380   | 25.984 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 9.093  | 70   | 9741     | 5.850  | ng    | # 71     |
| 31) Naphthalene               | 10.785 | 128  | 15196    | 2.478  | ng    | # 97     |
| 37) 2-Methylnaphthalene       | 12.395 | 142  | 11642    | 2.415  | ng    | 99       |
| 38) 1-Methylnaphthalene       | 12.612 | 142  | 12060    | 2.681  | ng    | 95       |
| 51) 2,6-Dinitrotoluene        | 14.569 | 165  | 12442    | 8.837  | ng    | # 20     |
| 52) Acenaphthene              | 14.633 | 154  | 22541    | 5.212  | ng    | 96       |
| 54) 2,4-Dinitrophenol         | 15.162 | 184  | 66       | 5.632  | ng    | # 46     |
| 55) Dibenzofuran              | 14.968 | 168  | 26284    | 3.520  | ng    | 98       |
| 58) Fluorene                  | 15.620 | 166  | 49137    | 7.795  | ng    | # 98     |
| 71) Phenanthrene              | 17.365 | 178  | 441086   | 46.074 | ng    | 99       |
| 72) Anthracene                | 17.454 | 178  | 107527   | 10.906 | ng    | 99       |
| 73) Carbazole                 | 17.718 | 167  | 17212    | 2.102  | ng    | # 93     |
| 75) Fluoranthene              | 19.381 | 202  | 699126   | 55.026 | ng    | 96       |
| 78) Pyrene                    | 19.739 | 202  | 634039   | 48.654 | ng    | 98       |
| 81) Benzo(a)anthracene        | 21.561 | 228  | 310971   | 23.110 | ng    | 95       |
| 83) Chrysene                  | 21.625 | 228  | 284985   | 22.245 | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene    | 28.270 | 276  | 54199    | 5.141  | ng    | # 62     |
| 88) Benzo(b)fluoranthene      | 23.729 | 252  | 230062   | 26.712 | ng    | # 97     |
| 89) Benzo(k)fluoranthene      | 23.729 | 252  | 230062   | 26.461 | ng    | # 95     |
| 90) Benzo(a)pyrene            | 24.563 | 252  | 168115   | 20.166 | ng    | 98       |
| 92) Benzo(g,h,i)perylene      | 29.363 | 276  | 45483    | 5.325  | ng    | # 86     |
| -----                         |        |      |          |        |       |          |

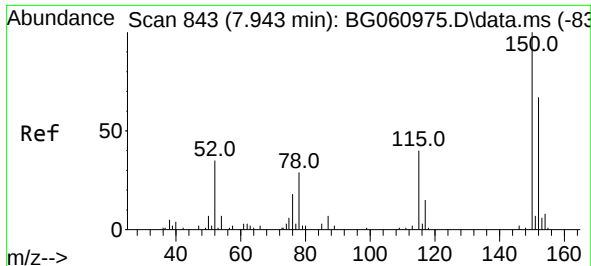
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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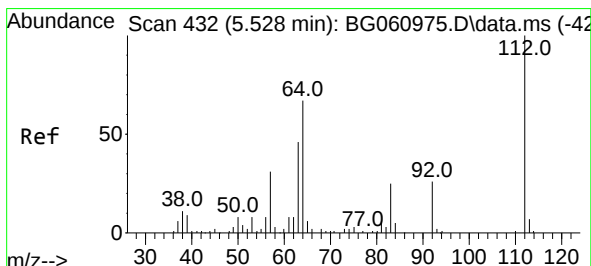
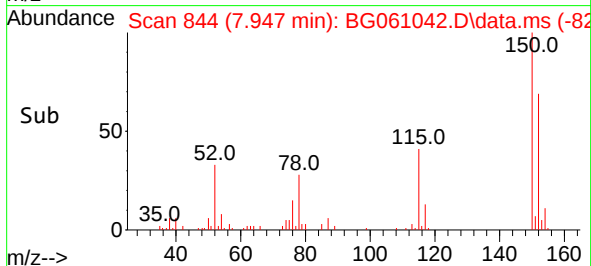
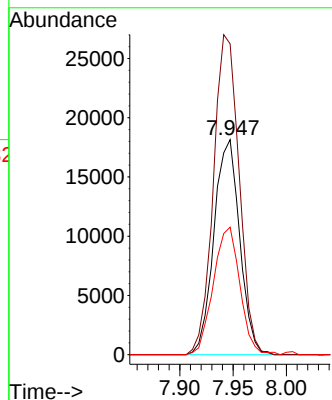
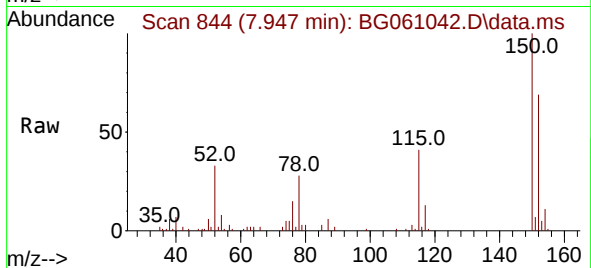




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.947 min Scan# 84  
Delta R.T. 0.004 min  
Lab File: BG061042.D  
Acq: 25 Apr 2024 18:03

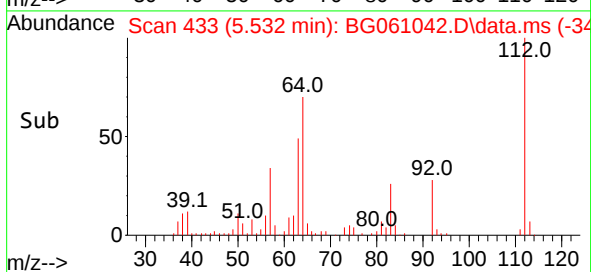
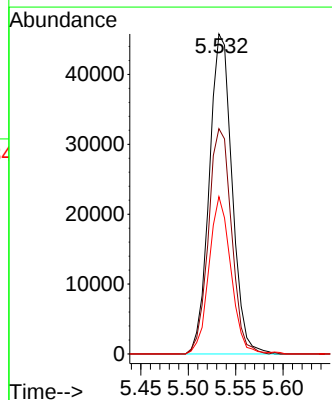
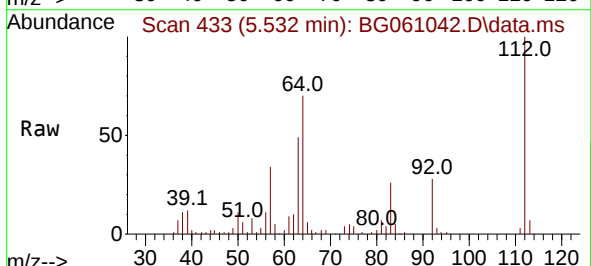
Instrument :  
BNA\_G  
ClientSampleId :  
OR-03-042424

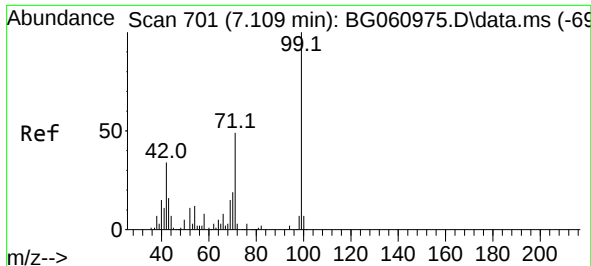
Tgt Ion:152 Resp: 30458  
Ion Ratio Lower Upper  
152 100  
150 144.6 118.6 178.0  
115 59.3 47.4 71.0



#5  
2-Fluorophenol  
Concen: 50.731 ng  
RT: 5.532 min Scan# 433  
Delta R.T. 0.004 min  
Lab File: BG061042.D  
Acq: 25 Apr 2024 18:03

Tgt Ion:112 Resp: 76389  
Ion Ratio Lower Upper  
112 100  
64 70.4 53.7 80.5  
63 49.1 37.0 55.6

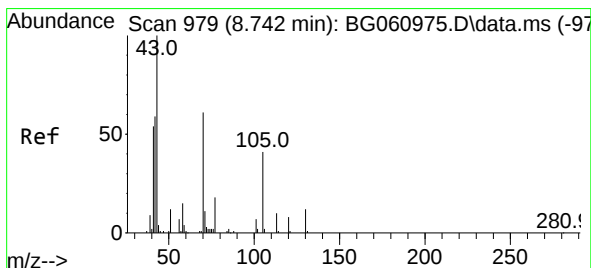
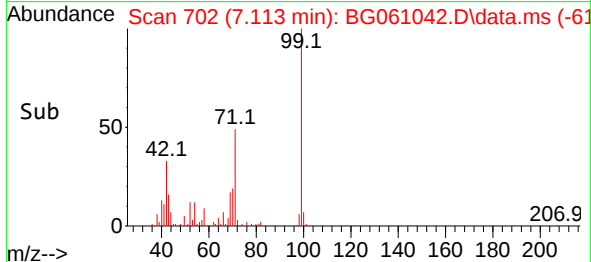
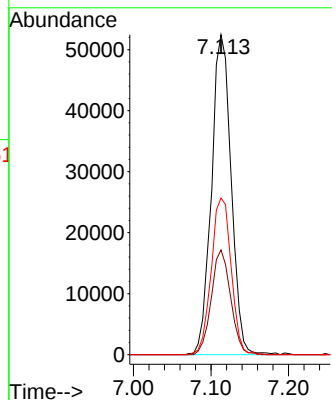
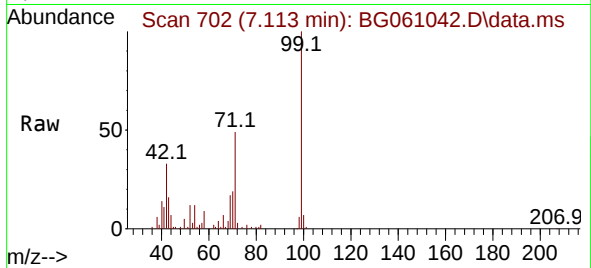




#7  
Phenol-d6  
Concen: 41.440 ng  
RT: 7.113 min Scan# 701  
Delta R.T. 0.004 min  
Lab File: BG061042.D  
Acq: 25 Apr 2024 18:03

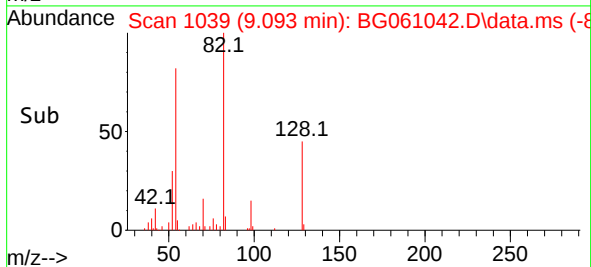
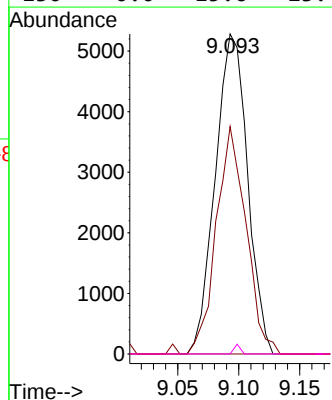
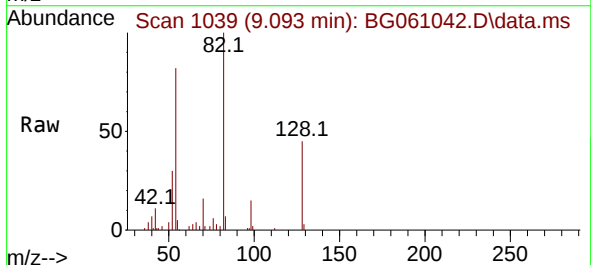
Instrument :  
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ClientSampleId :  
OR-03-042424

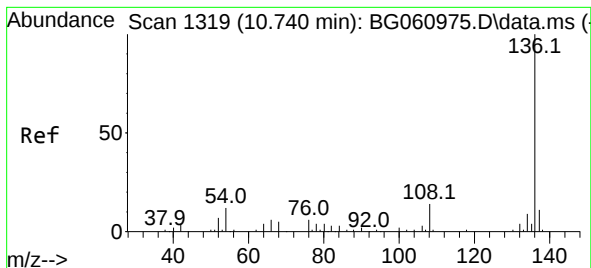
Tgt Ion: 99 Resp: 92584  
Ion Ratio Lower Upper  
99 100  
42 32.7 27.2 40.8  
71 48.9 38.8 58.2



#19  
n-Nitroso-di-n-propylamine  
Concen: 5.850 ng  
RT: 9.093 min Scan# 1039  
Delta R.T. 0.351 min  
Lab File: BG061042.D  
Acq: 25 Apr 2024 18:03

Tgt Ion: 70 Resp: 9741  
Ion Ratio Lower Upper  
70 100  
42 71.1 78.0 117.0#  
101 0.0 8.6 13.0#  
130 0.0 15.6 23.4#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.738 min Scan# 11

Delta R.T. -0.002 min

Lab File: BG061042.D

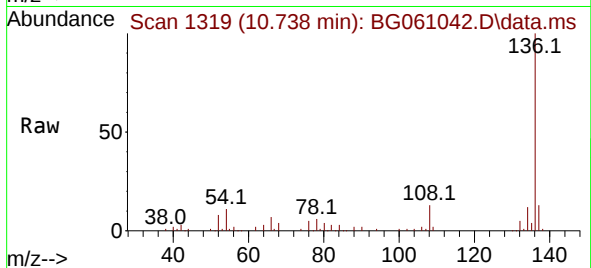
Acq: 25 Apr 2024 18:03

Instrument :

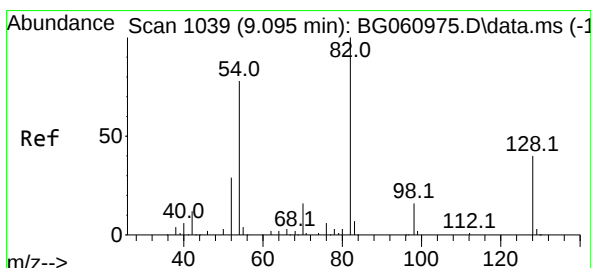
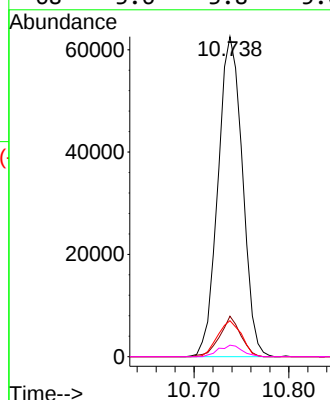
BNA\_G

ClientSampleId :

OR-03-042424



|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:136 | Resp: | 111990      |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 12.7  | 8.5 12.7    |
| 54          | 11.2  | 9.4 14.0    |
| 68          | 3.6   | 3.8 5.6#    |



#23

Nitrobenzene-d5

Concen: 25.498 ng

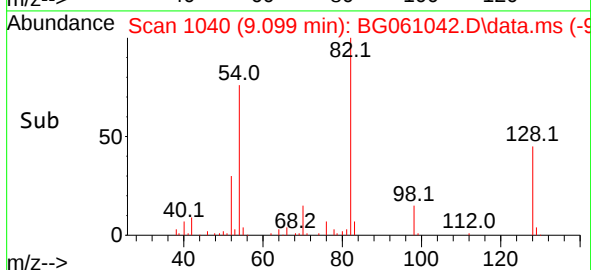
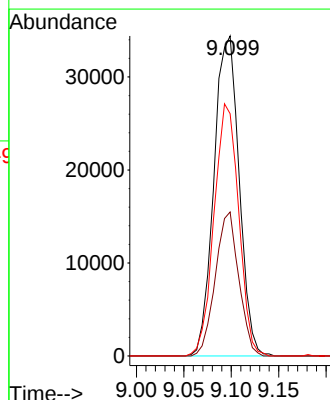
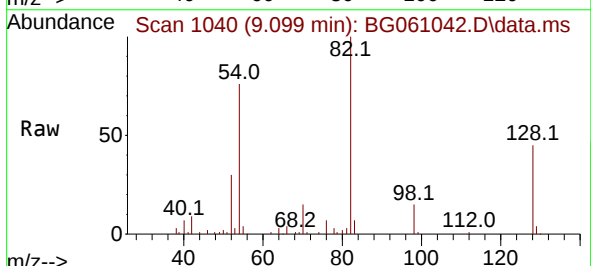
RT: 9.099 min Scan# 1040

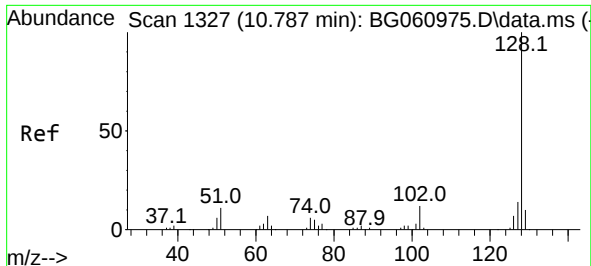
Delta R.T. 0.004 min

Lab File: BG061042.D

Acq: 25 Apr 2024 18:03

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 63557       |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 45.0  | 32.1 48.1   |
| 54          | 75.7  | 62.3 93.5   |

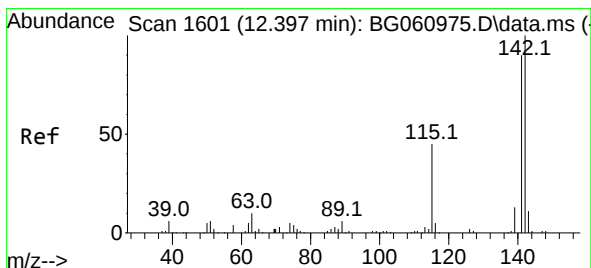
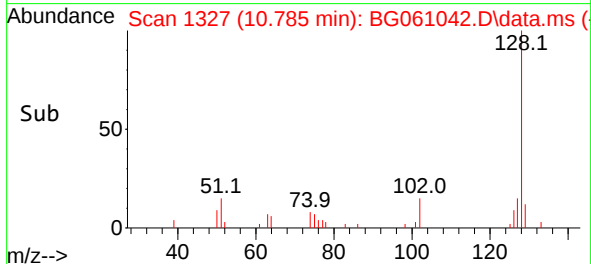
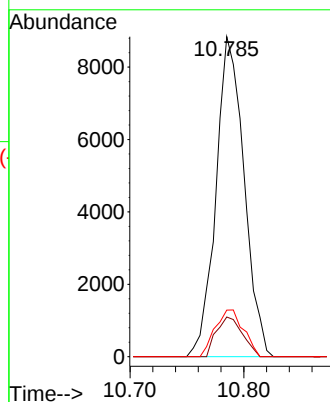
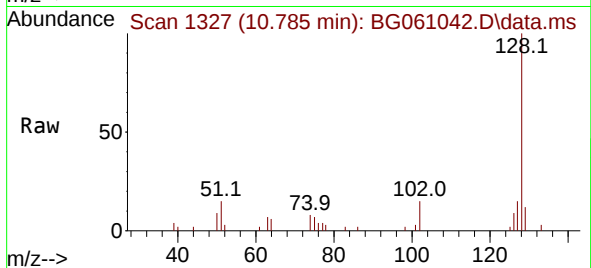




#31  
Naphthalene  
Concen: 2.478 ng  
RT: 10.785 min Scan# 11  
Delta R.T. -0.002 min  
Lab File: BG061042.D  
Acq: 25 Apr 2024 18:03

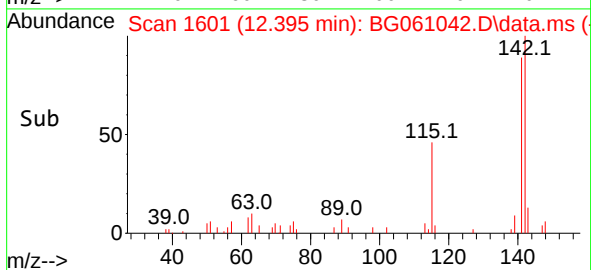
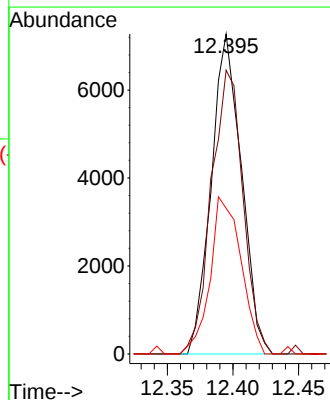
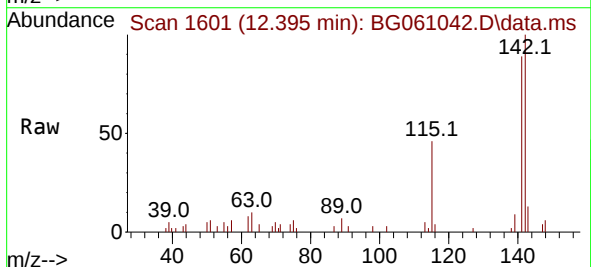
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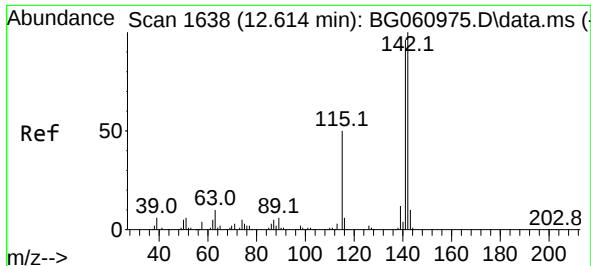
Tgt Ion:128 Resp: 15196  
Ion Ratio Lower Upper  
128 100  
129 12.4 8.2 12.4#  
127 14.5 11.4 17.2



#37  
2-Methylnaphthalene  
Concen: 2.415 ng  
RT: 12.395 min Scan# 1601  
Delta R.T. -0.002 min  
Lab File: BG061042.D  
Acq: 25 Apr 2024 18:03

Tgt Ion:142 Resp: 11642  
Ion Ratio Lower Upper  
142 100  
141 88.7 72.2 108.4  
115 45.6 35.9 53.9

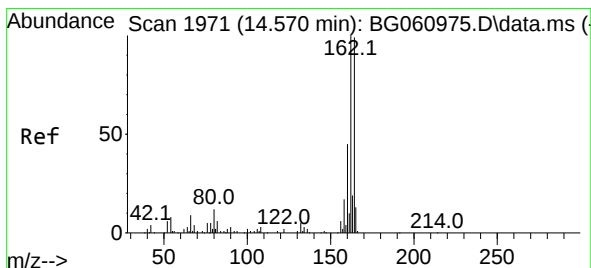
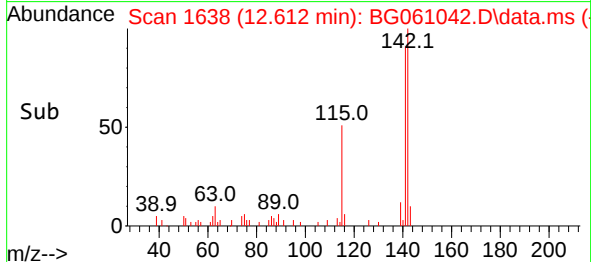
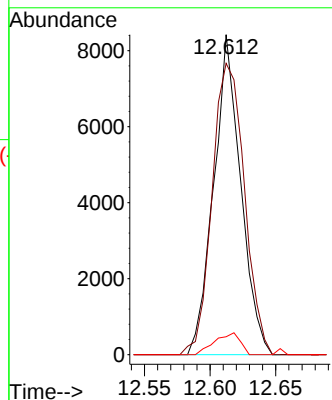
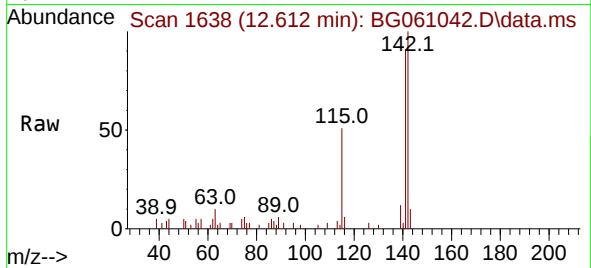




#38  
1-Methylnaphthalene  
Concen: 2.681 ng  
RT: 12.612 min Scan# 1  
Delta R.T. -0.002 min  
Lab File: BG061042.D  
Acq: 25 Apr 2024 18:03

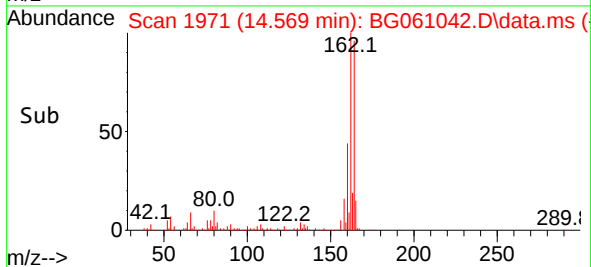
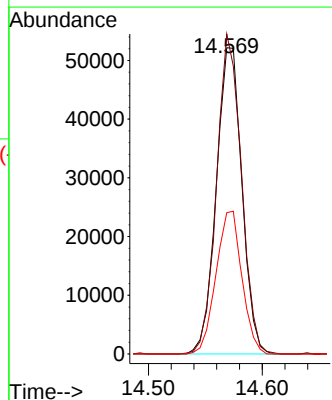
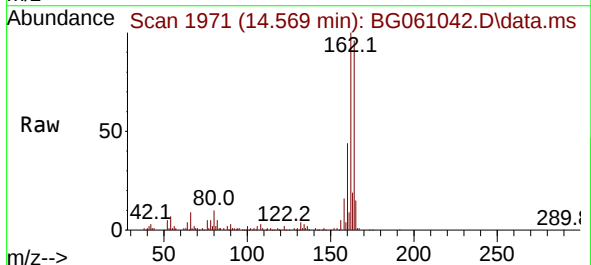
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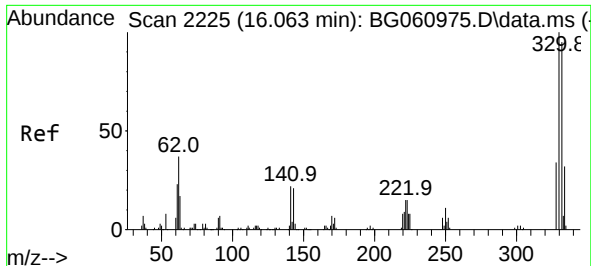
Tgt Ion:142 Resp: 12060  
Ion Ratio Lower Upper  
142 100  
141 91.1 76.8 115.2  
116 5.6 4.4 6.6



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.569 min Scan# 1971  
Delta R.T. -0.002 min  
Lab File: BG061042.D  
Acq: 25 Apr 2024 18:03

Tgt Ion:164 Resp: 81827  
Ion Ratio Lower Upper  
164 100  
162 104.5 81.2 121.8  
160 46.1 36.2 54.2

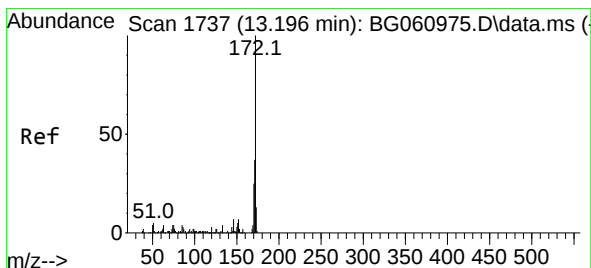
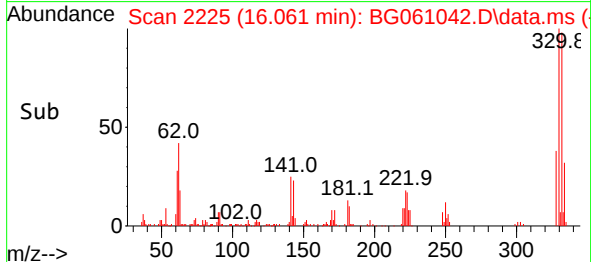
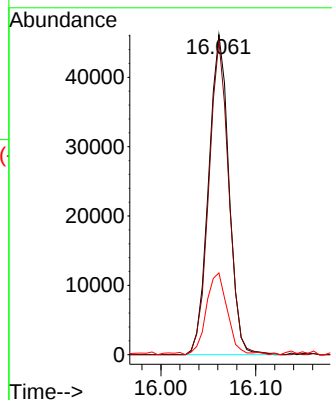
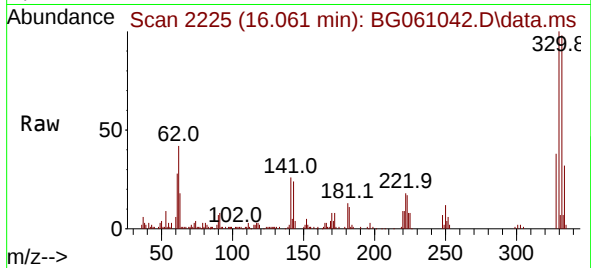




#42  
2,4,6-Tribromophenol  
Concen: 38.163 ng  
RT: 16.061 min Scan# 21  
Delta R.T. -0.002 min  
Lab File: BG061042.D  
Acq: 25 Apr 2024 18:03

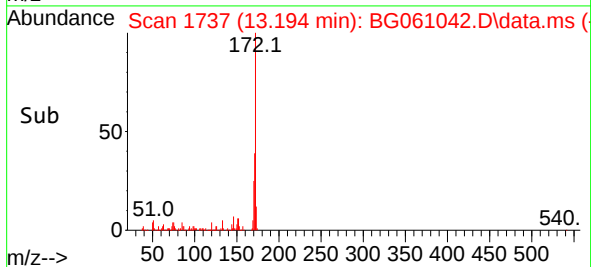
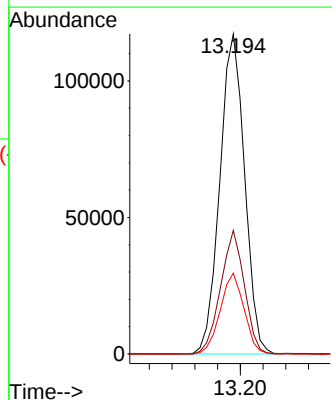
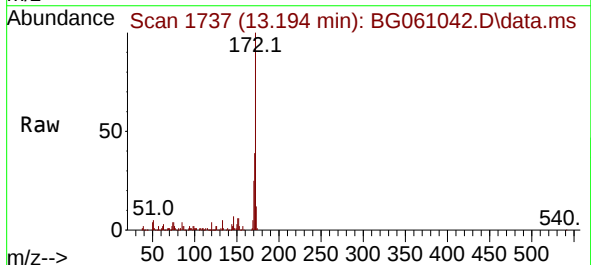
Instrument :  
BNA\_G  
ClientSampleId :  
OR-03-042424

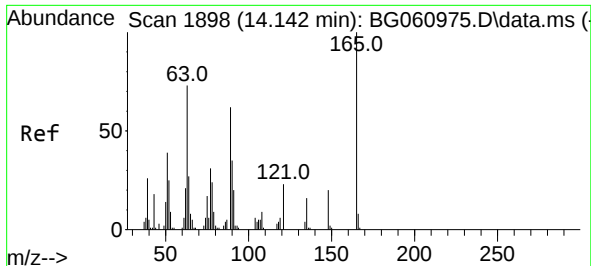
Tgt Ion:330 Resp: 68574  
Ion Ratio Lower Upper  
330 100  
332 96.1 77.1 115.7  
141 26.6 20.6 31.0



#45  
2-Fluorobiphenyl  
Concen: 29.988 ng  
RT: 13.194 min Scan# 1737  
Delta R.T. -0.002 min  
Lab File: BG061042.D  
Acq: 25 Apr 2024 18:03

Tgt Ion:172 Resp: 177298  
Ion Ratio Lower Upper  
172 100  
171 38.6 29.3 43.9  
170 25.2 20.1 30.1

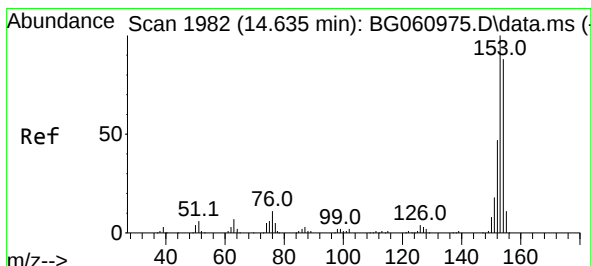
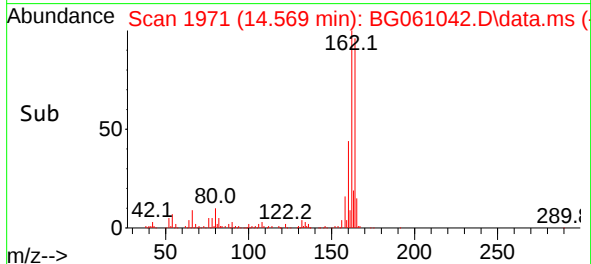
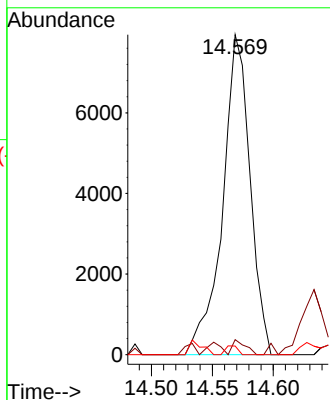
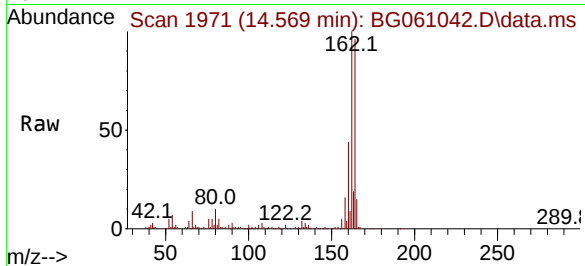




#51  
2,6-Dinitrotoluene  
Concen: 8.837 ng  
RT: 14.569 min Scan# 1898  
Delta R.T. 0.427 min  
Lab File: BG061042.D  
Acq: 25 Apr 2024 18:03

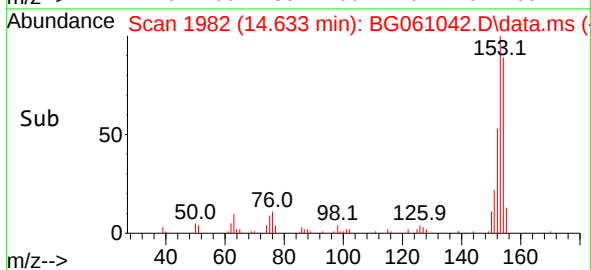
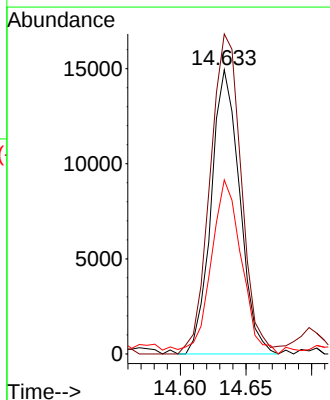
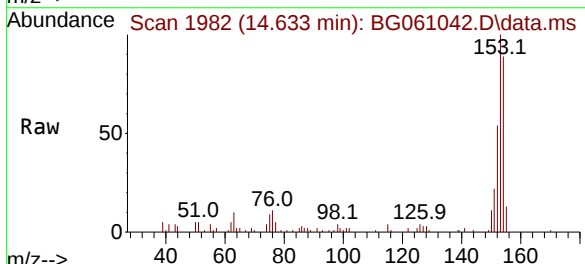
Instrument :  
BNA\_G  
ClientSampleId :  
OR-03-042424

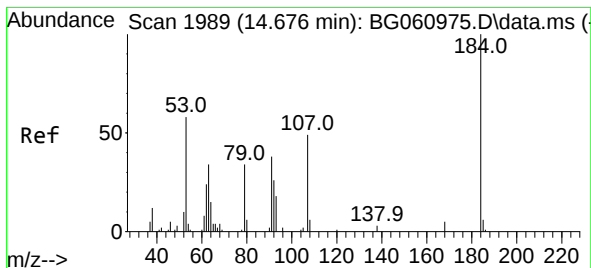
Tgt Ion:165 Resp: 12442  
Ion Ratio Lower Upper  
165 100  
63 4.7 59.6 89.4#  
89 2.7 49.4 74.0#



#52  
Acenaphthene  
Concen: 5.212 ng  
RT: 14.633 min Scan# 1982  
Delta R.T. -0.002 min  
Lab File: BG061042.D  
Acq: 25 Apr 2024 18:03

Tgt Ion:154 Resp: 22541  
Ion Ratio Lower Upper  
154 100  
153 112.6 91.2 136.8  
152 61.2 42.7 64.1





#54

2,4-Dinitrophenol

Concen: 5.632 ng

RT: 15.162 min Scan# 2072

Delta R.T. 0.486 min

Lab File: BG061042.D

Acq: 25 Apr 2024 18:03

Instrument :

BNA\_G

ClientSampleId :

OR-03-042424

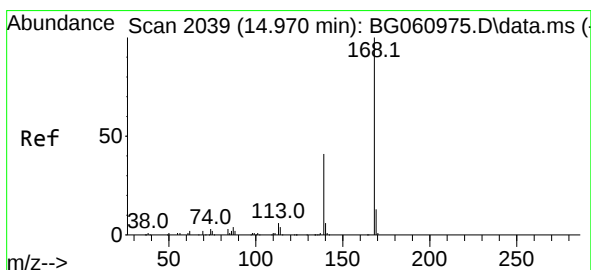
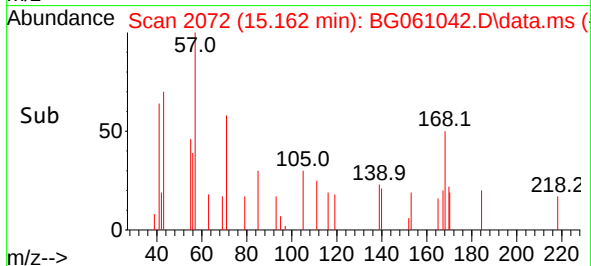
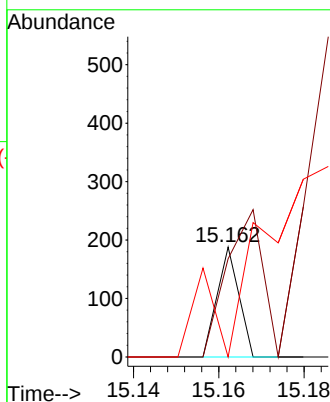
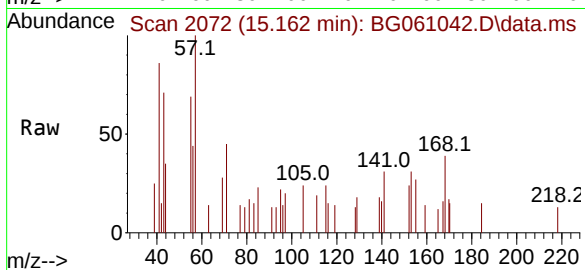
Tgt Ion:184 Resp: 66

Ion Ratio Lower Upper

184 100

63 89.4 59.0 88.6#

154 0.0 61.2 91.8#



#55

Dibenzofuran

Concen: 3.520 ng

RT: 14.968 min Scan# 2039

Delta R.T. -0.002 min

Lab File: BG061042.D

Acq: 25 Apr 2024 18:03

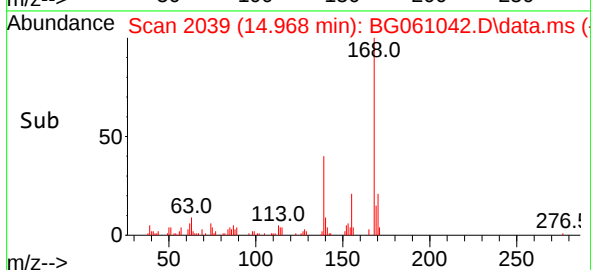
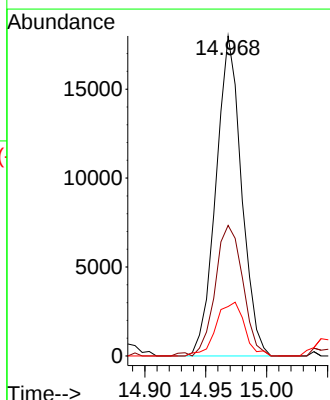
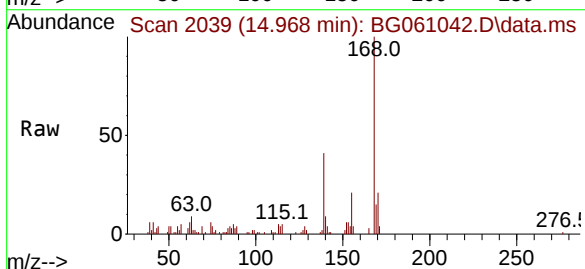
Tgt Ion:168 Resp: 26284

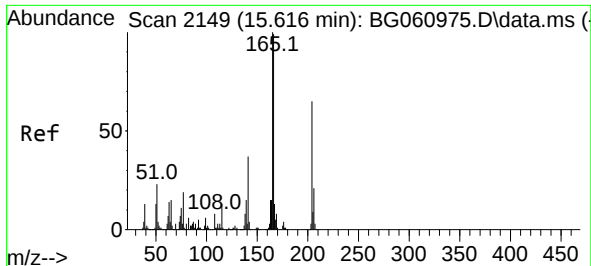
Ion Ratio Lower Upper

168 100

139 40.8 32.4 48.6

169 15.5 10.6 15.8

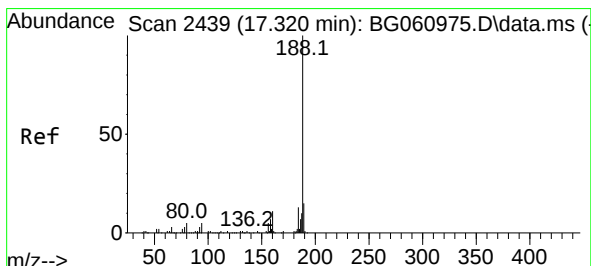
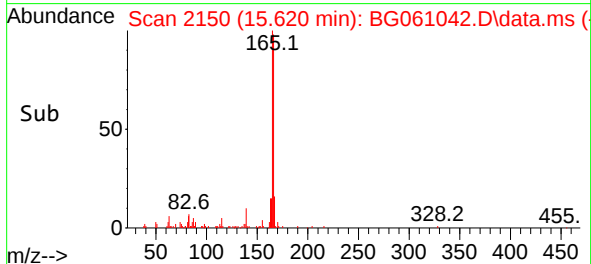
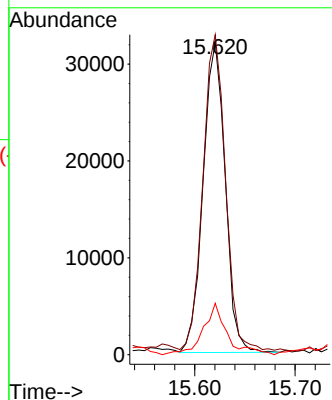
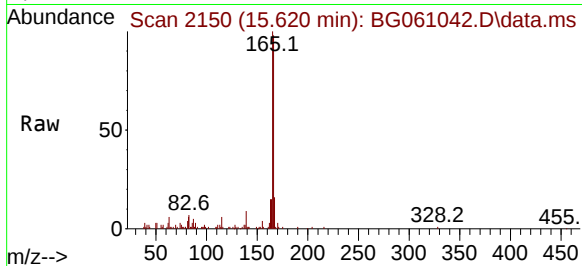




#58  
 Fluorene  
 Concen: 7.795 ng  
 RT: 15.620 min Scan# 2149  
 Delta R.T. 0.004 min  
 Lab File: BG061042.D  
 Acq: 25 Apr 2024 18:03

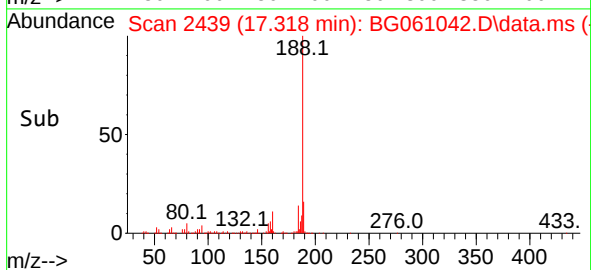
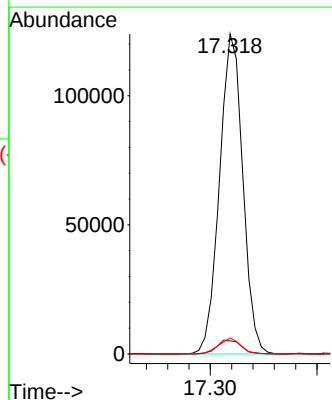
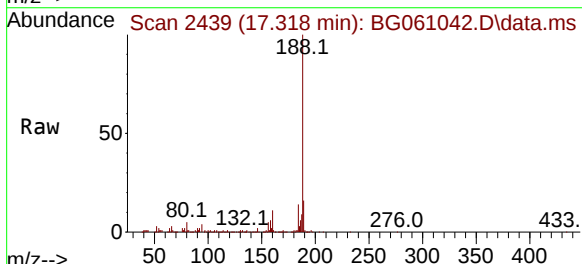
Instrument :  
 BNA\_G  
 ClientSampleId :  
 OR-03-042424

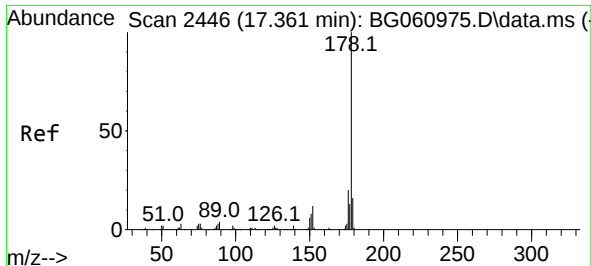
Tgt Ion:166 Resp: 49137  
 Ion Ratio Lower Upper  
 166 100  
 165 102.4 80.9 121.3  
 167 16.5 10.5 15.7#



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.318 min Scan# 2439  
 Delta R.T. -0.002 min  
 Lab File: BG061042.D  
 Acq: 25 Apr 2024 18:03

Tgt Ion:188 Resp: 187557  
 Ion Ratio Lower Upper  
 188 100  
 94 4.1 4.1 6.1  
 80 5.0 4.0 6.0

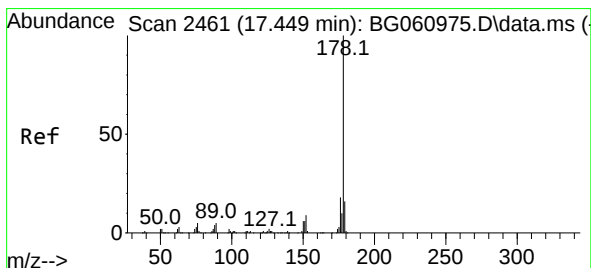
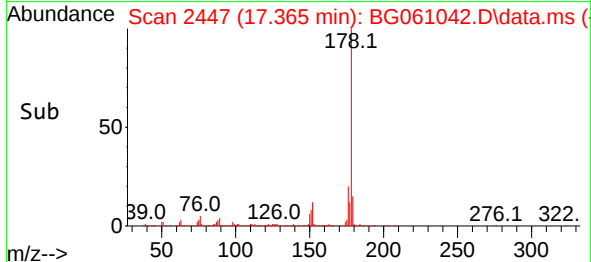
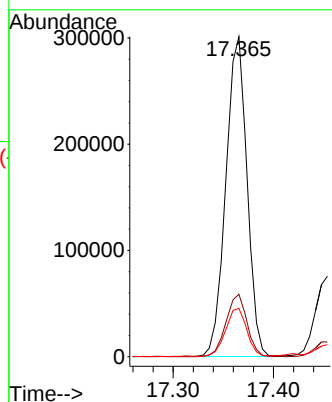
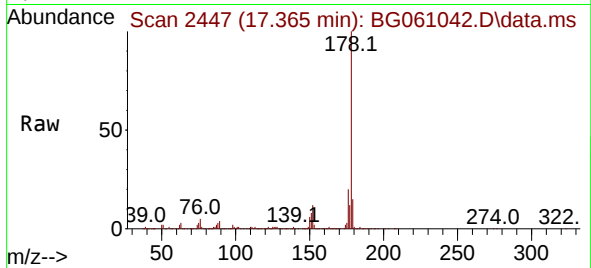




#71  
Phenanthrene  
Concen: 46.074 ng  
RT: 17.365 min Scan# 2446  
Delta R.T. 0.004 min  
Lab File: BG061042.D  
Acq: 25 Apr 2024 18:03

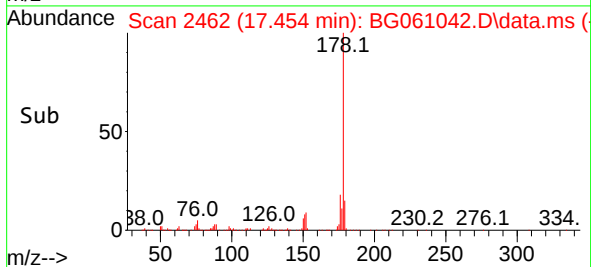
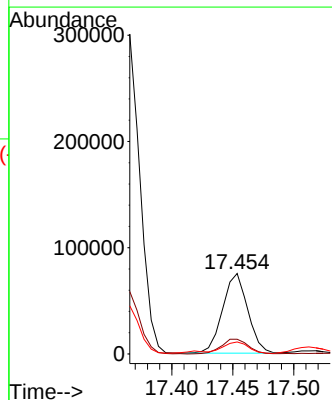
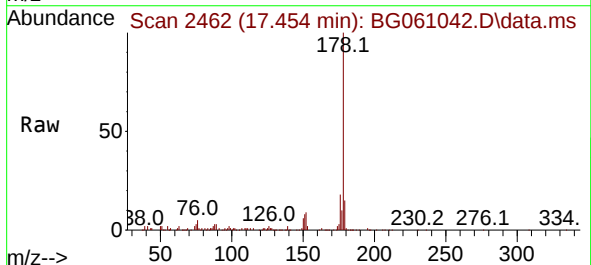
Instrument :  
BNA\_G  
ClientSampleId :  
OR-03-042424

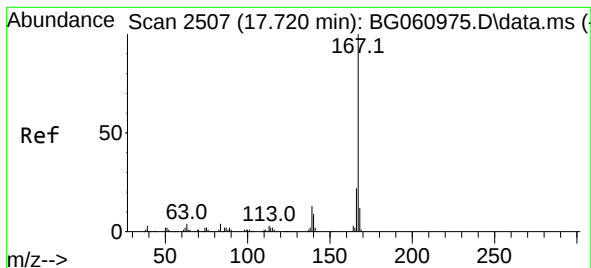
Tgt Ion:178 Resp: 441086  
Ion Ratio Lower Upper  
178 100  
176 19.5 16.0 24.0  
179 15.1 12.5 18.7



#72  
Anthracene  
Concen: 10.906 ng  
RT: 17.454 min Scan# 2462  
Delta R.T. 0.004 min  
Lab File: BG061042.D  
Acq: 25 Apr 2024 18:03

Tgt Ion:178 Resp: 107527  
Ion Ratio Lower Upper  
178 100  
176 18.3 14.7 22.1  
179 14.9 12.4 18.6





#73

Carbazole

Concen: 2.102 ng

RT: 17.718 min Scan# 21

Delta R.T. -0.002 min

Lab File: BG061042.D

Acq: 25 Apr 2024 18:03

Instrument :

BNA\_G

ClientSampleId :

OR-03-042424

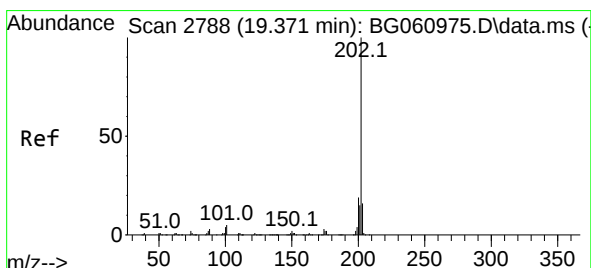
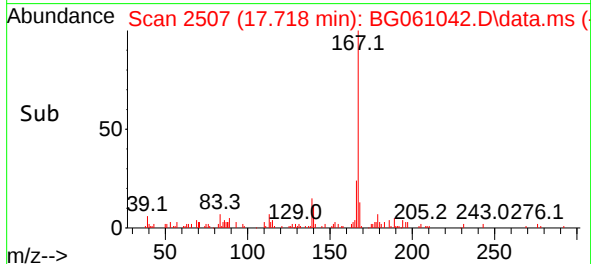
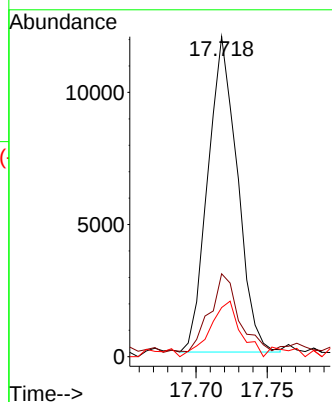
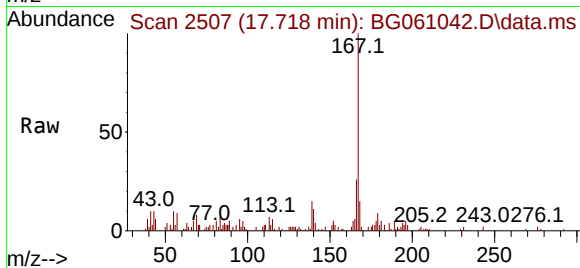
Tgt Ion:167 Resp: 17212

Ion Ratio Lower Upper

167 100

166 25.9 17.8 26.8

139 15.4 10.2 15.2#



#75

Fluoranthene

Concen: 55.026 ng

RT: 19.381 min Scan# 2790

Delta R.T. 0.010 min

Lab File: BG061042.D

Acq: 25 Apr 2024 18:03

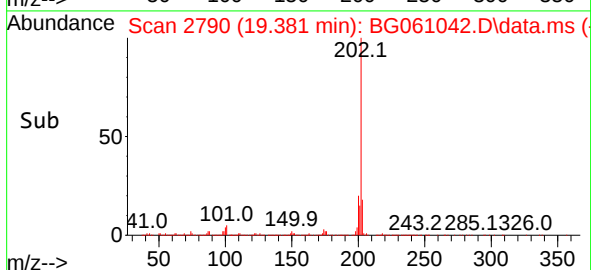
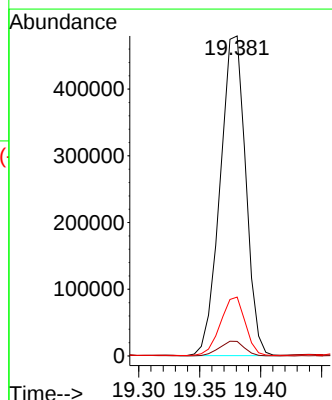
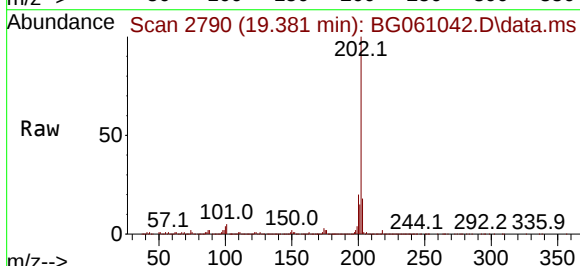
Tgt Ion:202 Resp: 699126

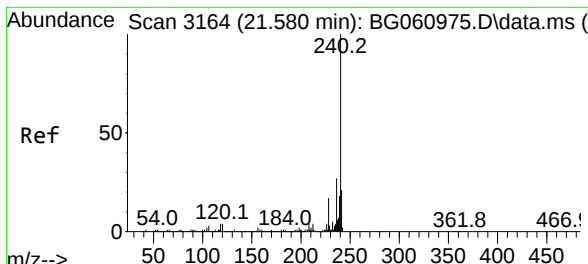
Ion Ratio Lower Upper

202 100

101 4.6 0.0 24.9

203 18.4 0.0 36.2

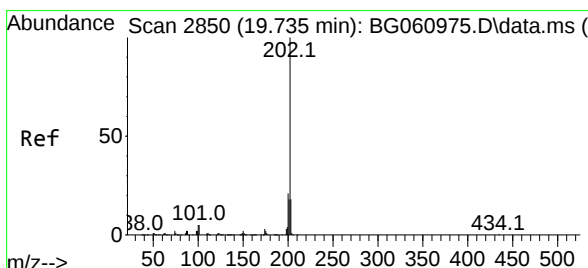
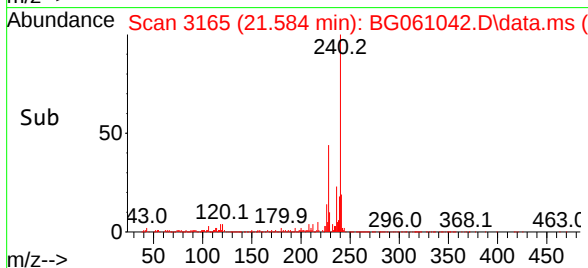
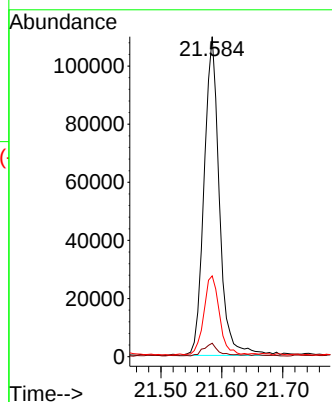
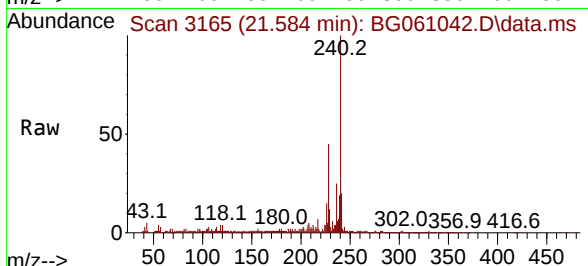




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.584 min Scan# 3164  
Delta R.T. 0.004 min  
Lab File: BG061042.D  
Acq: 25 Apr 2024 18:03

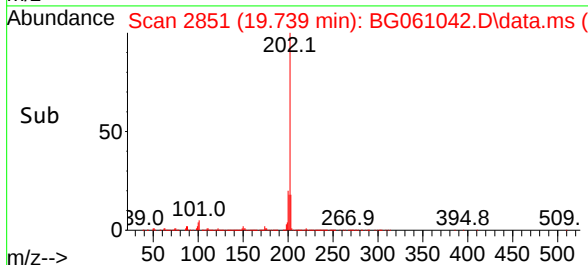
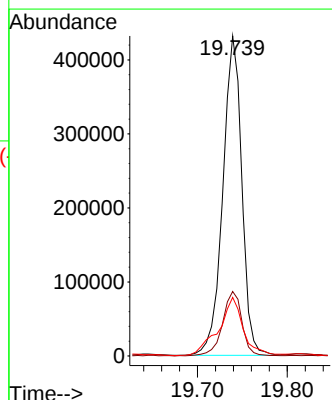
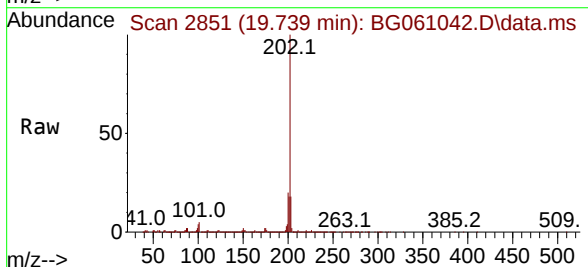
Instrument :  
BNA\_G  
ClientSampleId :  
OR-03-042424

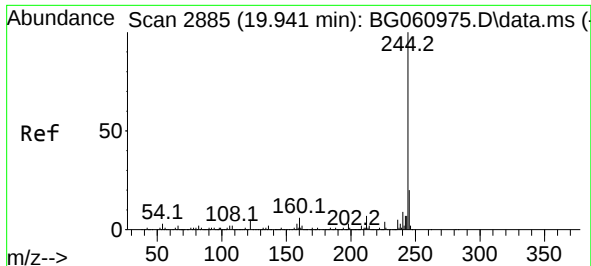
Tgt Ion:240 Resp: 191390  
Ion Ratio Lower Upper  
240 100  
120 4.2 3.0 4.6  
236 25.3 21.8 32.6



#78  
Pyrene  
Concen: 48.654 ng  
RT: 19.739 min Scan# 2851  
Delta R.T. 0.004 min  
Lab File: BG061042.D  
Acq: 25 Apr 2024 18:03

Tgt Ion:202 Resp: 634039  
Ion Ratio Lower Upper  
202 100  
200 20.1 16.8 25.2  
203 18.3 14.2 21.2

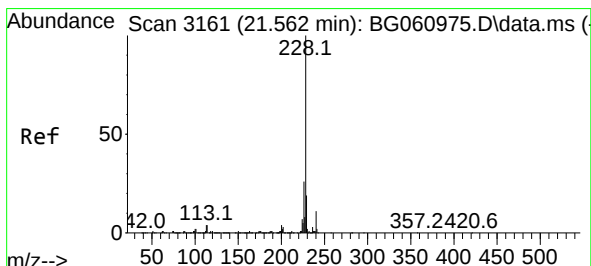
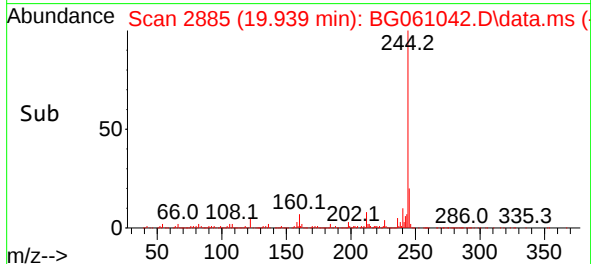
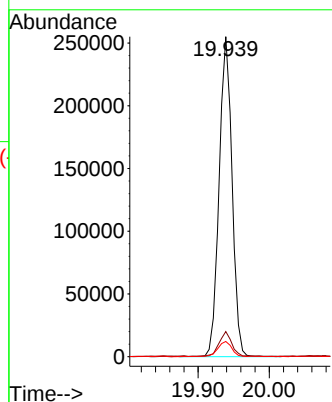
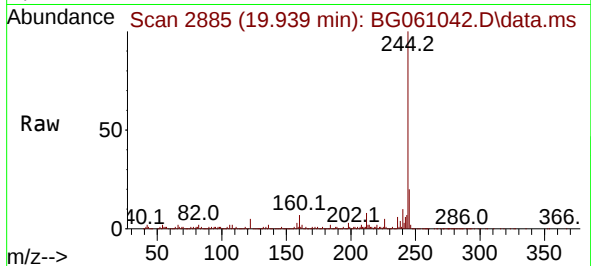




#79  
 Terphenyl-d14  
 Concen: 25.984 ng  
 RT: 19.939 min Scan# 2885  
 Delta R.T. -0.002 min  
 Lab File: BG061042.D  
 Acq: 25 Apr 2024 18:03

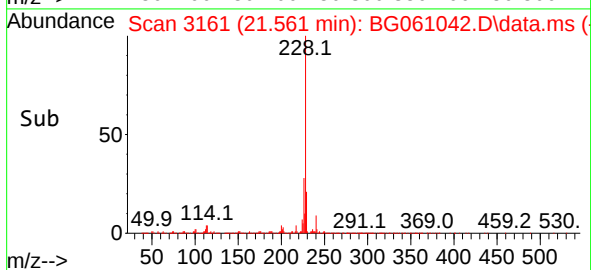
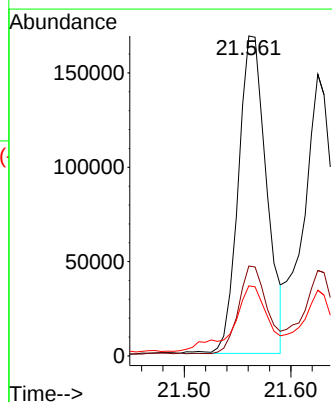
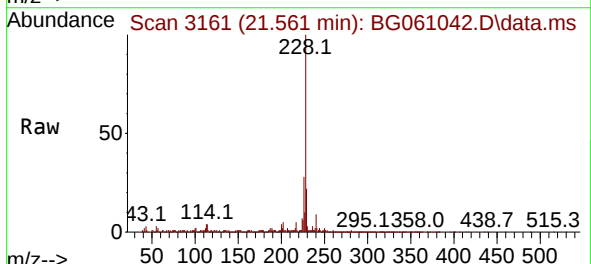
Instrument :  
 BNA\_G  
 ClientSampleId :  
 OR-03-042424

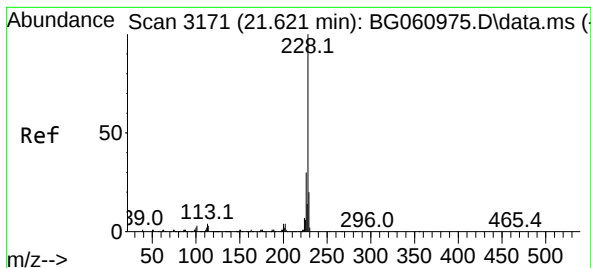
Tgt Ion:244 Resp: 320380  
 Ion Ratio Lower Upper  
 244 100  
 212 7.9 5.9 8.9  
 122 4.7 4.2 6.2



#81  
 Benzo(a)anthracene  
 Concen: 23.110 ng  
 RT: 21.561 min Scan# 3161  
 Delta R.T. -0.002 min  
 Lab File: BG061042.D  
 Acq: 25 Apr 2024 18:03

Tgt Ion:228 Resp: 310971  
 Ion Ratio Lower Upper  
 228 100  
 226 28.1 21.0 31.4  
 229 21.9 15.0 22.4





#83

Chrysene

Concen: 22.245 ng

RT: 21.625 min Scan# 31

Delta R.T. 0.004 min

Lab File: BG061042.D

Acq: 25 Apr 2024 18:03

Instrument :

BNA\_G

ClientSampleId :

OR-03-042424

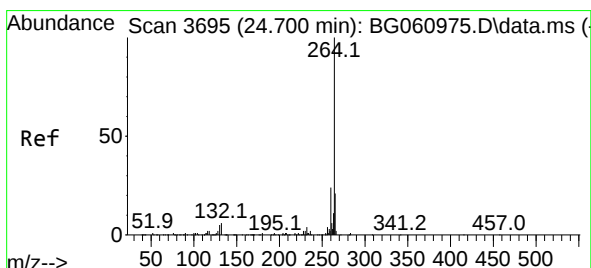
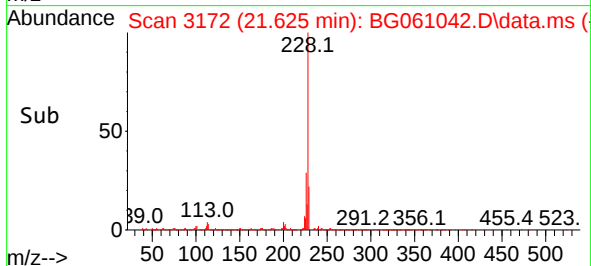
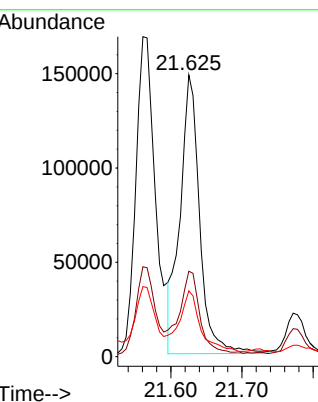
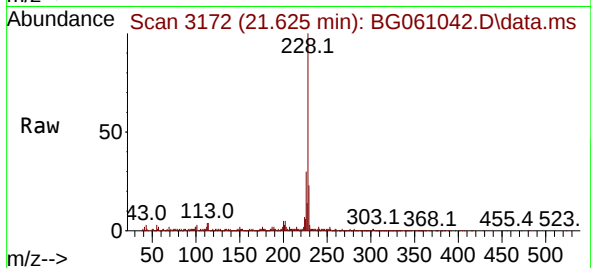
Tgt Ion:228 Resp: 284985

Ion Ratio Lower Upper

228 100

226 30.3 24.2 36.2

229 23.3 15.7 23.5



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.716 min Scan# 3698

Delta R.T. 0.016 min

Lab File: BG061042.D

Acq: 25 Apr 2024 18:03

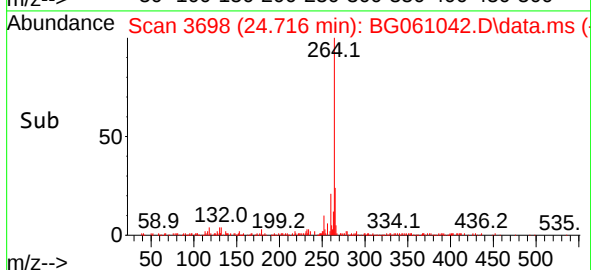
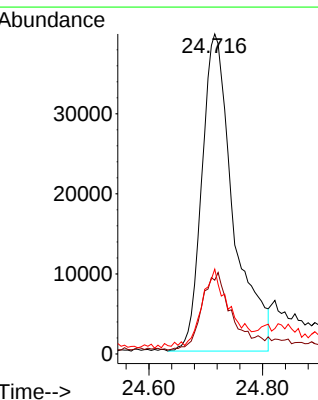
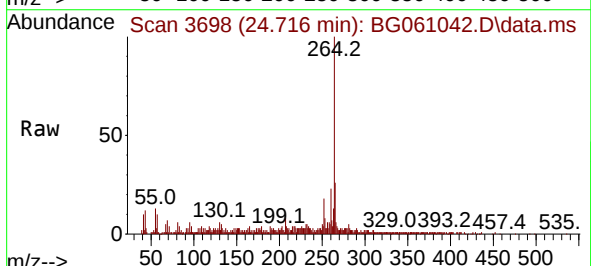
Tgt Ion:264 Resp: 151983

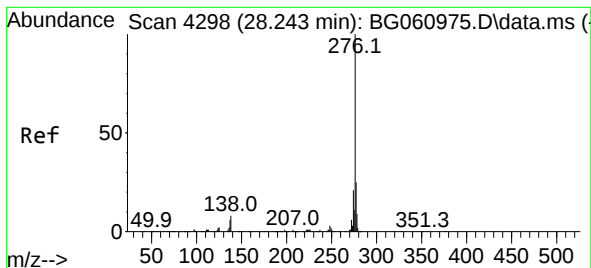
Ion Ratio Lower Upper

264 100

260 23.0 19.4 29.2

265 26.5 17.0 25.4#





#87

Indeno(1,2,3-cd)pyrene

Concen: 5.141 ng

RT: 28.270 min Scan# 41

Delta R.T. 0.028 min

Lab File: BG061042.D

Acq: 25 Apr 2024 18:03

Instrument :

BNA\_G

ClientSampleId :

OR-03-042424

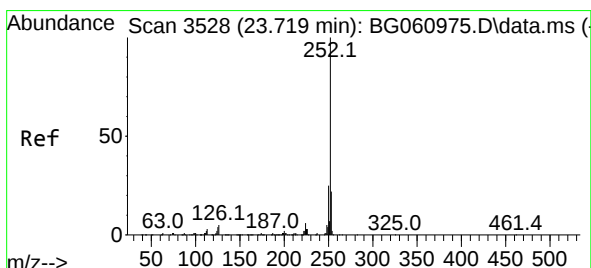
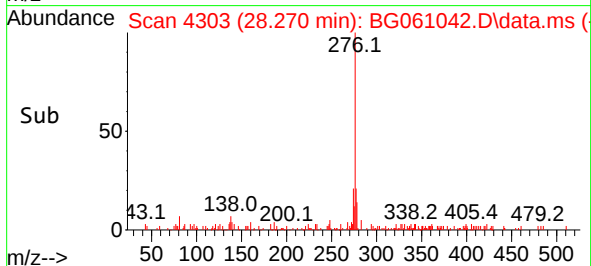
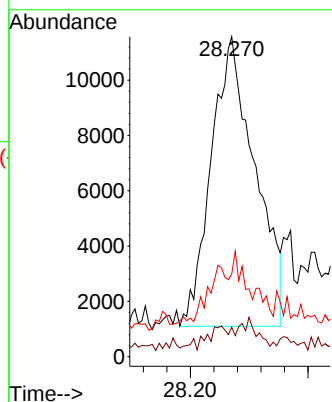
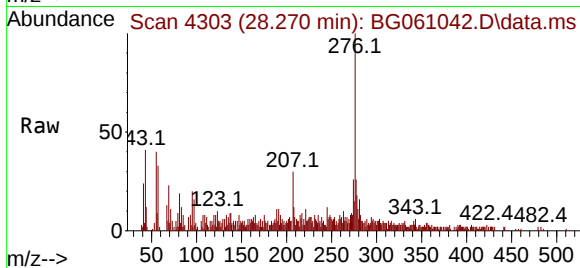
Tgt Ion:276 Resp: 54199

Ion Ratio Lower Upper

276 100

138 0.6 5.3 7.9#

277 3.8 20.6 30.8#



#88

Benzo(b)fluoranthene

Concen: 26.712 ng

RT: 23.729 min Scan# 3530

Delta R.T. 0.010 min

Lab File: BG061042.D

Acq: 25 Apr 2024 18:03

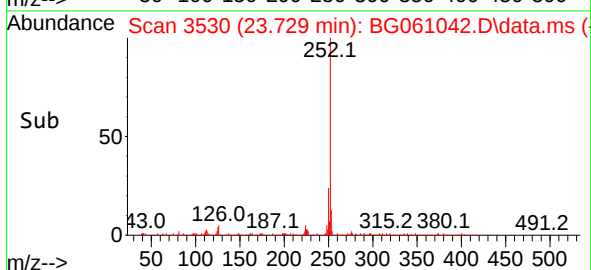
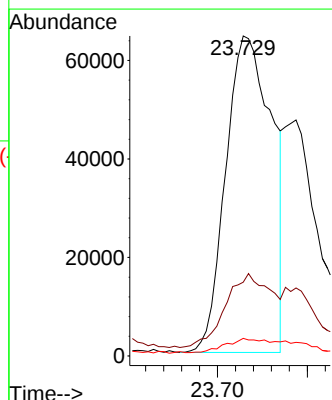
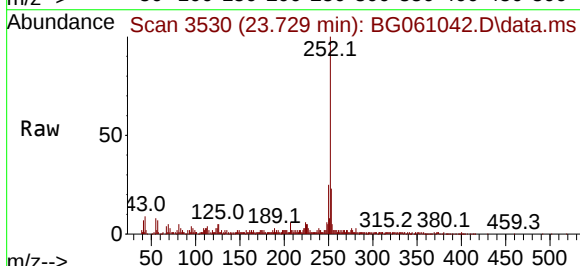
Tgt Ion:252 Resp: 230062

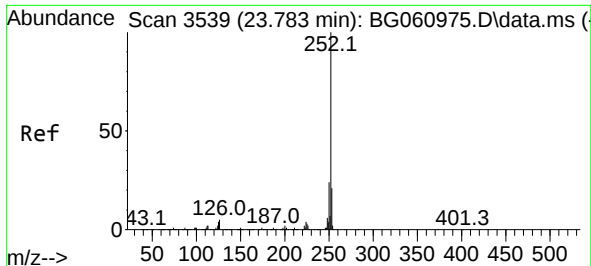
Ion Ratio Lower Upper

252 100

253 23.0 17.5 26.3

125 5.5 3.3 4.9#

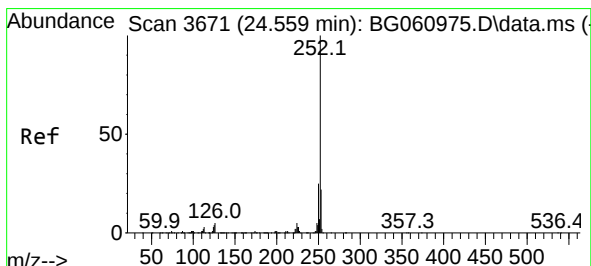
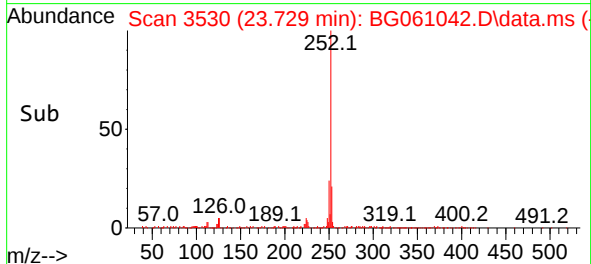
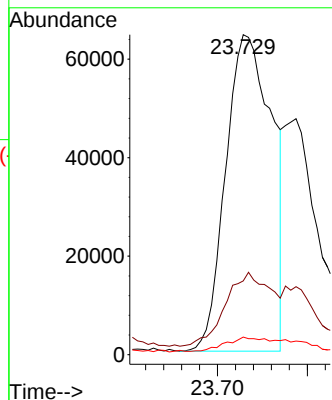
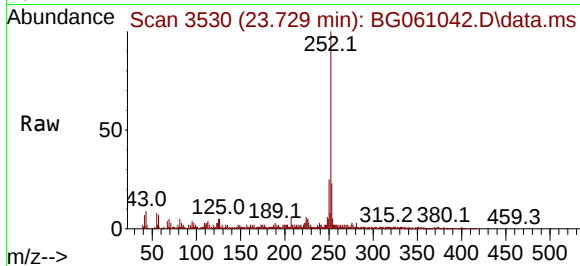




#89  
Benzo(k)fluoranthene  
Concen: 26.461 ng  
RT: 23.729 min Scan# 31  
Delta R.T. -0.055 min  
Lab File: BG061042.D  
Acq: 25 Apr 2024 18:03

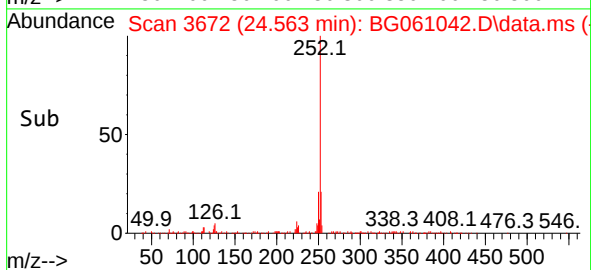
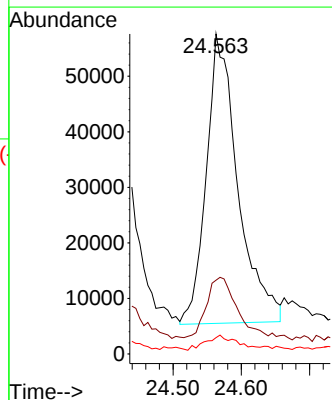
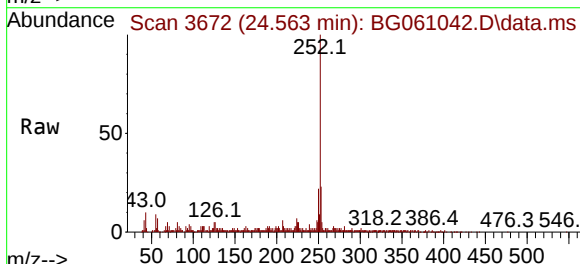
Instrument :  
BNA\_G  
ClientSampleId :  
OR-03-042424

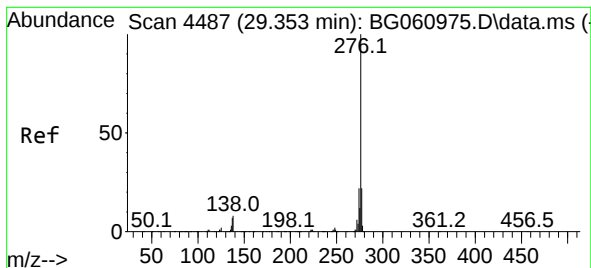
Tgt Ion:252 Resp: 230062  
Ion Ratio Lower Upper  
252 100  
253 23.0 16.6 25.0  
125 5.5 3.3 4.9#



#90  
Benzo(a)pyrene  
Concen: 20.166 ng  
RT: 24.563 min Scan# 3672  
Delta R.T. 0.004 min  
Lab File: BG061042.D  
Acq: 25 Apr 2024 18:03

Tgt Ion:252 Resp: 168115  
Ion Ratio Lower Upper  
252 100  
253 23.1 17.7 26.5  
125 5.1 3.6 5.4





#92

Benzo(g,h,i)perylene

Concen: 5.325 ng

RT: 29.363 min Scan# 44

Delta R.T. 0.010 min

Lab File: BG061042.D

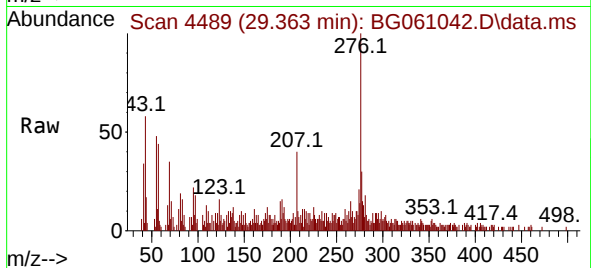
Acq: 25 Apr 2024 18:03

Instrument :

BNA\_G

ClientSampleId :

OR-03-042424



Tgt Ion:276 Resp: 45483

Ion Ratio Lower Upper

276 100

277 29.9 18.0 27.0#

138 11.6 6.5 9.7#

