

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040624\  
 Data File : BG060818.D  
 Acq On : 6 Apr 2024 19:37  
 Operator : MA/JU  
 Sample : P2000-05 20X  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Apr 08 02:10:26 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  | 79426    | 20.000   | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.767 | 136  | 305987   | 20.000   | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.592 | 164  | 212033   | 20.000   | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.336 | 188  | 453924   | 20.000   | ng    | 0.00     |
| 76) Chrysene-d12              | 21.596 | 240  | 436325   | 20.000   | ng    | 0.00     |
| 86) Perylene-d12              | 24.733 | 264  | 528243   | 20.000   | ng    | -0.01    |
| System Monitoring Compounds   |        |      |          |          |       |          |
| 5) 2-Fluorophenol             | 5.544  | 112  | 11202    | 2.350    | ng    | 0.00     |
| 7) Phenol-d6                  | 7.131  | 99   | 12066    | 1.705    | ng    | 0.02     |
| 23) Nitrobenzene-d5           | 9.128  | 82   | 20518    | 3.826    | ng    | 0.02     |
| 42) 2,4,6-Tribromophenol      | 16.085 | 330  | 14814    | 6.155    | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.218 | 172  | 47639    | 3.297    | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.951 | 244  | 75017    | 3.027    | ng    | -0.01    |
| Target Compounds              |        |      |          |          |       |          |
|                               |        |      |          |          |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.300  | 88   | 10484    | 5.363    | ng    | # 1      |
| 4) n-Nitrosodimethylamine     | 4.081  | 42   | 36561    | 10.373   | ng    | # 8      |
| 10) Phenol                    | 7.172  | 94   | 2598606  | 359.783  | ng    | 90       |
| 15) Benzyl Alcohol            | 8.265  | 79   | 61400    | 10.710   | ng    | 99       |
| 17) 2-Methylphenol            | 8.411  | 107  | 1023036  | 187.625  | ng    | 97       |
| 20) 3+4-Methylphenols         | 8.817  | 107  | 10902254 | 1460.143 | ng    | # 73     |
| 22) Acetophenone              | 8.823  | 105  | 125805   | 14.911   | ng    | # 1      |
| 24) Nitrobenzene              | 8.817  | 77   | 5185232  | 821.287  | ng    | # 51     |
| 26) 2-Nitrophenol             | 10.374 | 139  | 11303    | 8.756    | ng    | # 74     |
| 27) 2,4-Dimethylphenol        | 9.974  | 122  | 4306234  | 867.945  | ng    | 100      |
| 28) bis(2-Chloroethoxy)met... | 10.297 | 93   | 384308   | 52.704   | ng    | # 1      |
| 31) Naphthalene               | 10.814 | 128  | 43120    | 2.605    | ng    | # 84     |
| 32) Benzoic acid              | 9.974  | 122  | 4306234  | 1125.574 | ng    | # 17     |
| 36) 4-Chloro-3-methylphenol   | 12.125 | 107  | 639721   | 109.915  | ng    | # 22     |
| 48) 2-Nitroaniline            | 13.676 | 65   | 121072   | 34.729   | ng    | # 32     |
| 51) 2,6-Dinitrotoluene        | 13.987 | 165  | 2890     | 4.387    | ng    | # 1      |
| 53) 3-Nitroaniline            | 14.493 | 138  | 47437    | 16.406   | ng    | # 11     |
| 54) 2,4-Dinitrophenol         | 14.898 | 184  | 23588    | 20.220   | ng    | # 1      |
| 56) 4-Nitrophenol             | 14.780 | 139  | 50608    | 20.656   | ng    | # 38     |
| 57) 2,4-Dinitrotoluene        | 14.945 | 165  | 3659     | 4.160    | ng    | # 1      |
| 63) Azobenzene                | 15.914 | 77   | 58337    | 3.551    | ng    | # 28     |
| 65) 4,6-Dinitro-2-methylph... | 15.726 | 198  | 320      | 7.180    | ng    | # 1      |
| -----                         |        |      |          |          |       |          |

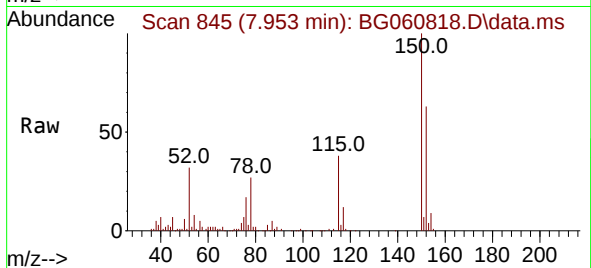
(#) = qualifier out of range (m) = manual integration (+) = signals summed



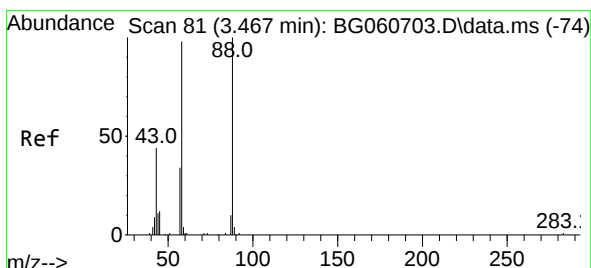
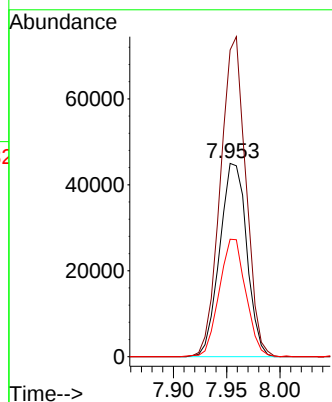
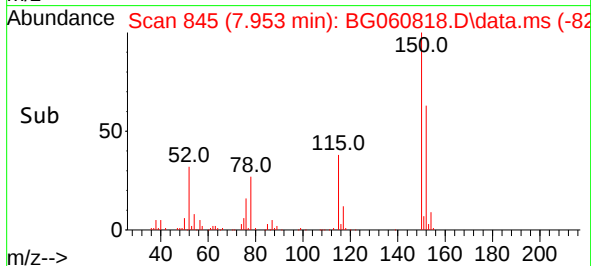


#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 7.953 min Scan# 84  
 Delta R.T. -0.008 min  
 Lab File: BG060818.D  
 Acq: 6 Apr 2024 19:37

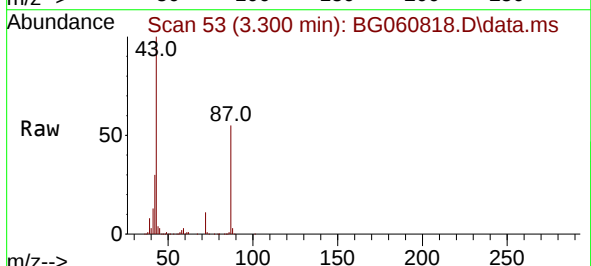
Instrument :  
 BNA\_G  
 ClientSampleId :



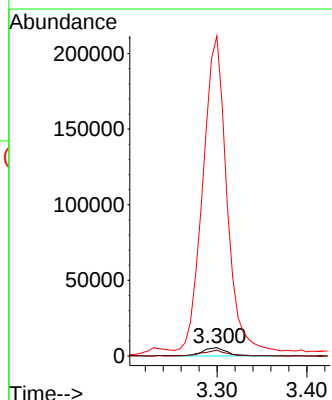
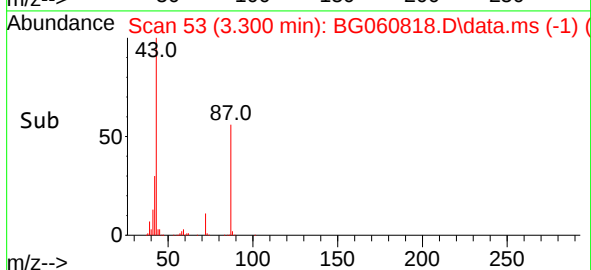
Tgt Ion:152 Resp: 79426  
 Ion Ratio Lower Upper  
 152 100  
 150 158.6 130.2 195.4  
 115 60.7 51.6 77.4

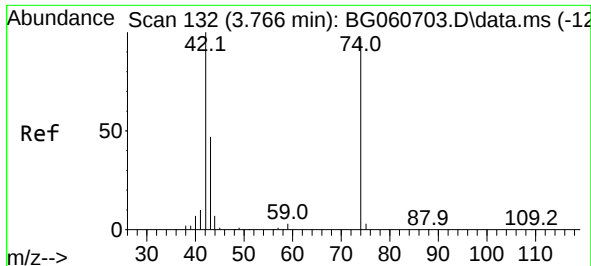


#2  
 1,4-Dioxane  
 Concen: 5.363 ng  
 RT: 3.300 min Scan# 53  
 Delta R.T. -0.167 min  
 Lab File: BG060818.D  
 Acq: 6 Apr 2024 19:37



Tgt Ion: 88 Resp: 10484  
 Ion Ratio Lower Upper  
 88 100  
 58 65.4 80.9 121.3#  
 43 3699.5 35.4 53.0#

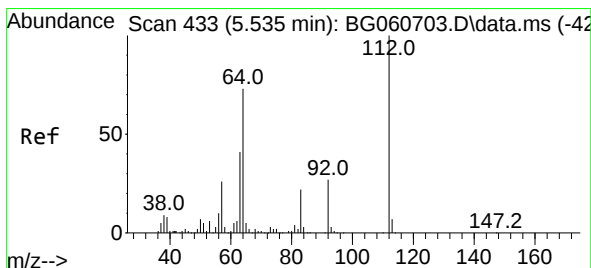
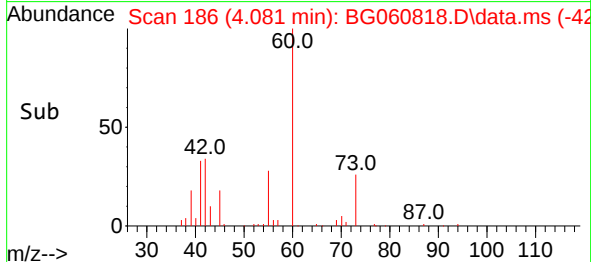
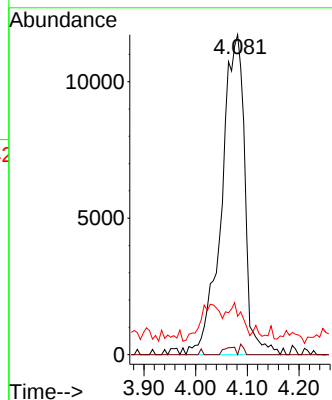
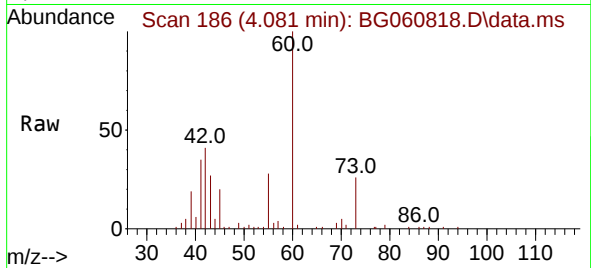




#4  
n-Nitrosodimethylamine  
Concen: 10.373 ng  
RT: 4.081 min Scan# 11  
Delta R.T. 0.315 min  
Lab File: BG060818.D  
Acq: 6 Apr 2024 19:37

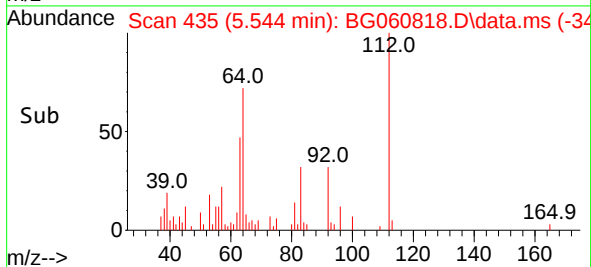
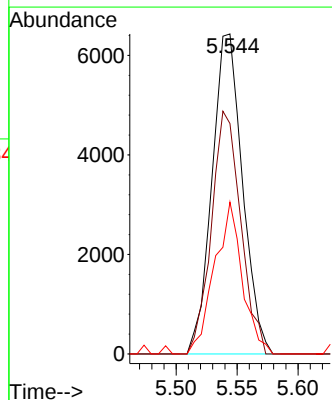
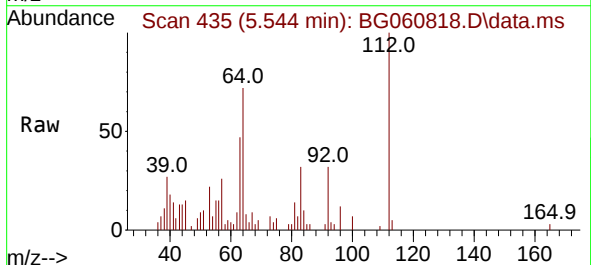
Instrument :  
BNA\_G  
ClientSampleId :

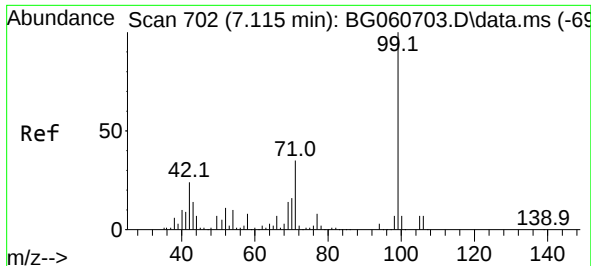
Tgt Ion: 42 Resp: 36561  
Ion Ratio Lower Upper  
42 100  
74 0.0 77.8 116.8#  
44 12.0 6.8 10.2#



#5  
2-Fluorophenol  
Concen: 2.350 ng  
RT: 5.544 min Scan# 435  
Delta R.T. 0.009 min  
Lab File: BG060818.D  
Acq: 6 Apr 2024 19:37

Tgt Ion: 112 Resp: 11202  
Ion Ratio Lower Upper  
112 100  
64 72.0 58.4 87.6  
63 47.5 32.7 49.1

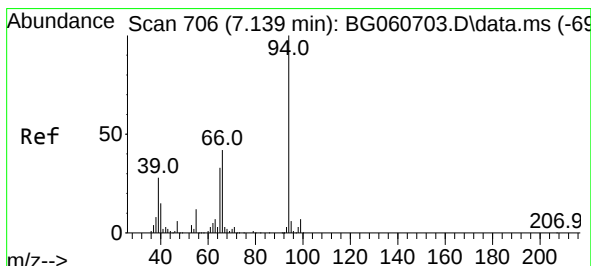
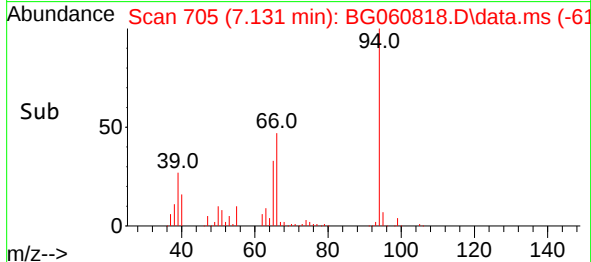
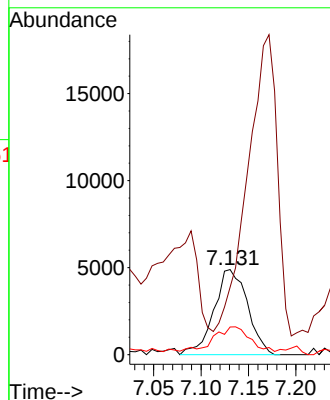
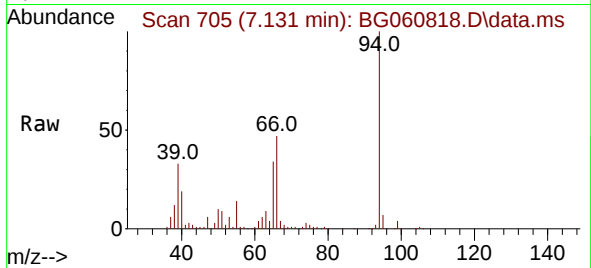




#7  
Phenol-d6  
Concen: 1.705 ng  
RT: 7.131 min Scan# 702  
Delta R.T. 0.015 min  
Lab File: BG060818.D  
Acq: 6 Apr 2024 19:37

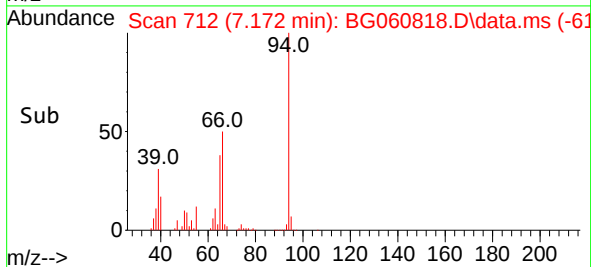
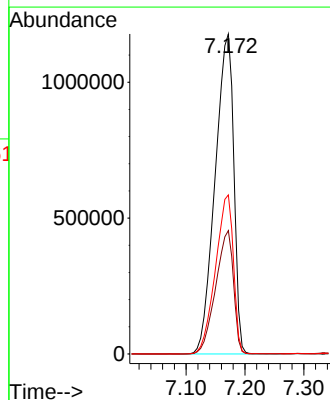
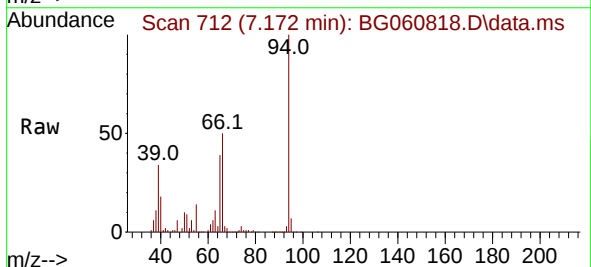
Instrument :  
BNA\_G  
ClientSampleId :

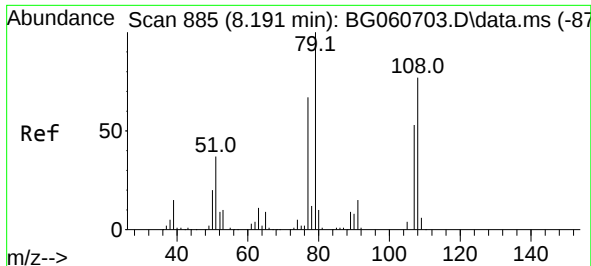
Tgt Ion: 99 Resp: 12066  
Ion Ratio Lower Upper  
99 100  
42 79.3 19.4 29.2#  
71 32.4 28.2 42.2



#10  
Phenol  
Concen: 359.783 ng  
RT: 7.172 min Scan# 712  
Delta R.T. 0.033 min  
Lab File: BG060818.D  
Acq: 6 Apr 2024 19:37

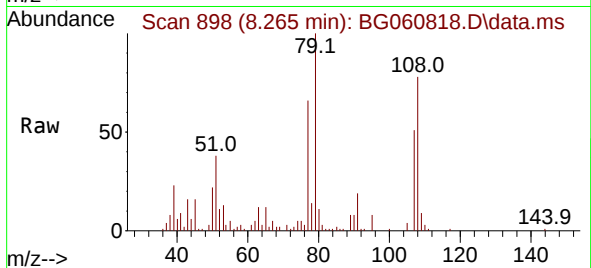
Tgt Ion: 94 Resp: 2598606  
Ion Ratio Lower Upper  
94 100  
65 38.6 13.3 53.3  
66 49.7 22.9 62.9



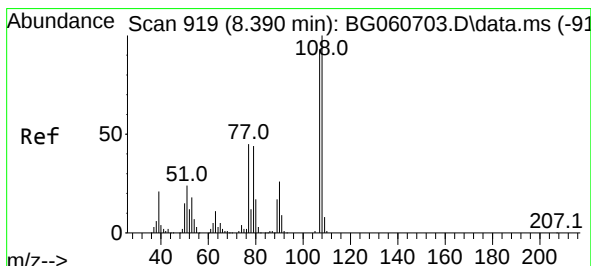
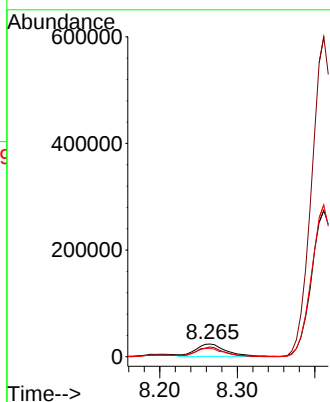
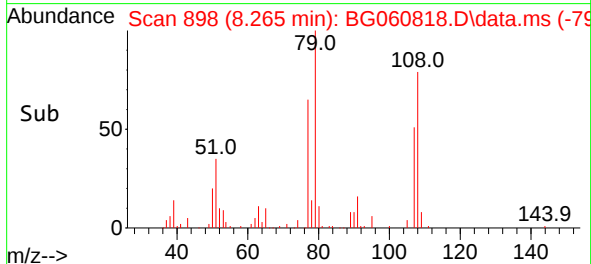


#15  
Benzyl Alcohol  
Concen: 10.710 ng  
RT: 8.265 min Scan# 898  
Delta R.T. 0.074 min  
Lab File: BG060818.D  
Acq: 6 Apr 2024 19:37

Instrument :  
BNA\_G  
ClientSampleId :

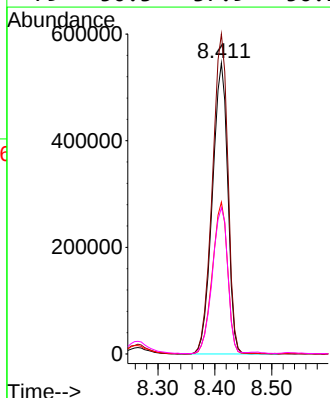
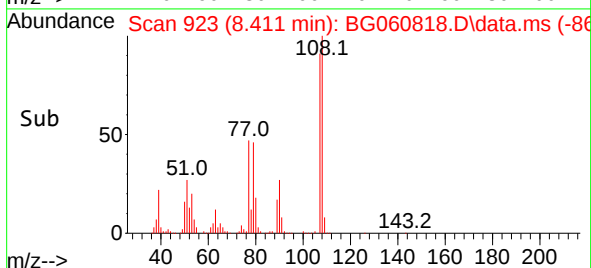
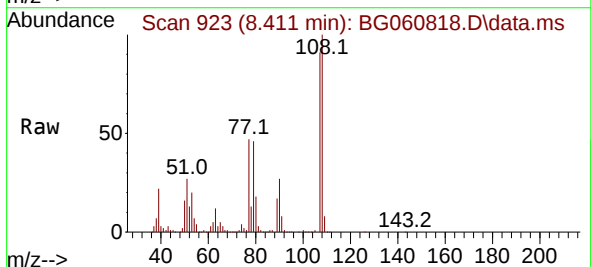


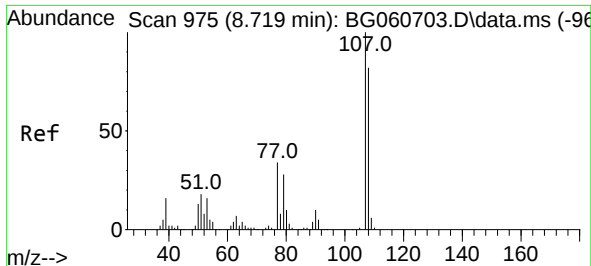
Tgt Ion: 79 Resp: 61400  
Ion Ratio Lower Upper  
79 100  
108 77.7 61.4 92.0  
77 66.5 53.6 80.4



#17  
2-Methylphenol  
Concen: 187.625 ng  
RT: 8.411 min Scan# 923  
Delta R.T. 0.021 min  
Lab File: BG060818.D  
Acq: 6 Apr 2024 19:37

Tgt Ion:107 Resp: 1023036  
Ion Ratio Lower Upper  
107 100  
108 110.0 86.4 129.6  
77 52.2 38.6 58.0  
79 50.3 37.9 56.9





#20

3+4-Methylphenols

Concen: 1460.143 ng

RT: 8.817 min Scan# 91

Delta R.T. 0.097 min

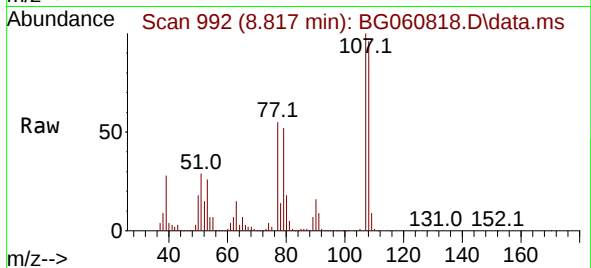
Lab File: BG060818.D

Acq: 6 Apr 2024 19:37

Instrument :

BNA\_G

ClientSampleId :



Tgt Ion:107 Resp:10902254

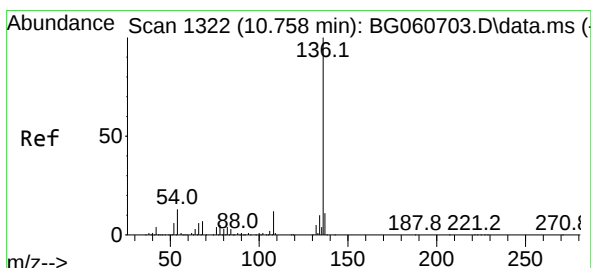
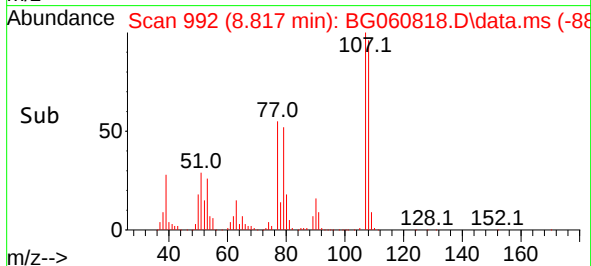
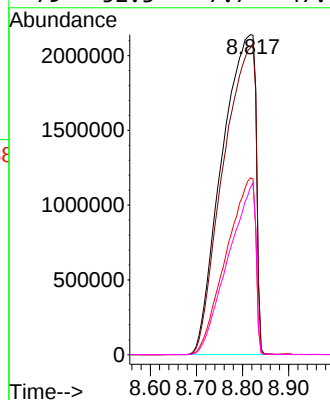
Ion Ratio Lower Upper

107 100

108 95.9 62.2 102.2

77 55.3 14.1 54.1#

79 52.3 7.7 47.7#



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.767 min Scan# 1324

Delta R.T. 0.009 min

Lab File: BG060818.D

Acq: 6 Apr 2024 19:37

Tgt Ion:136 Resp: 305987

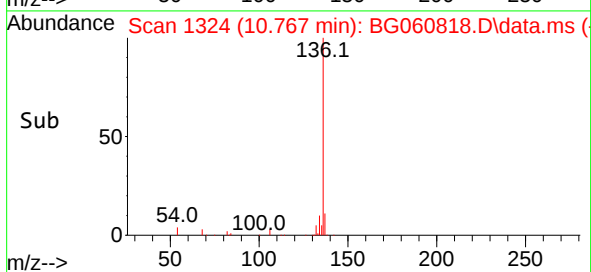
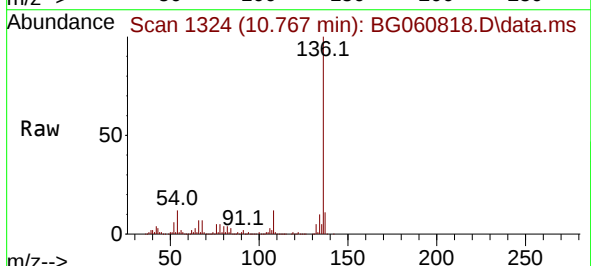
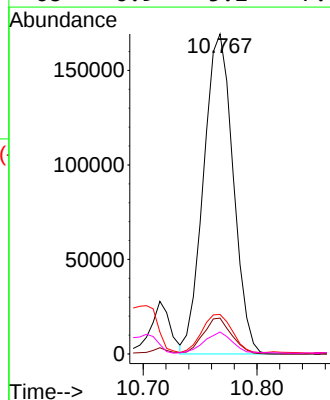
Ion Ratio Lower Upper

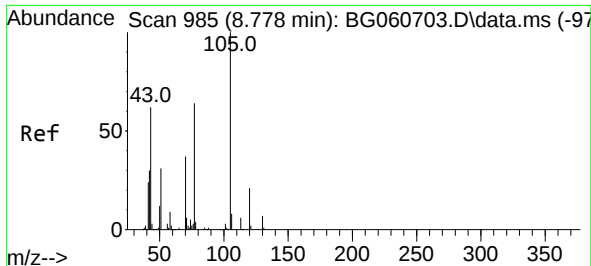
136 100

137 11.2 8.8 13.2

54 12.3 10.2 15.2

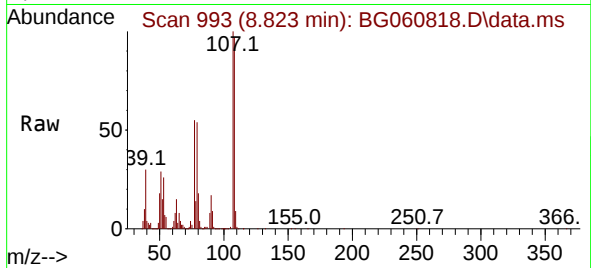
68 6.9 5.2 7.8



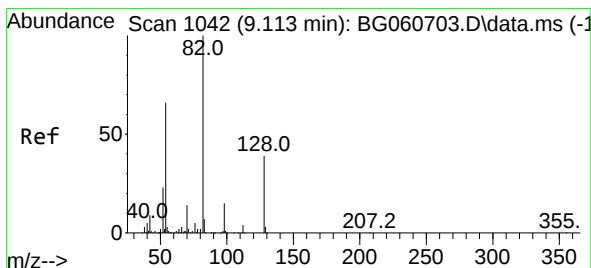
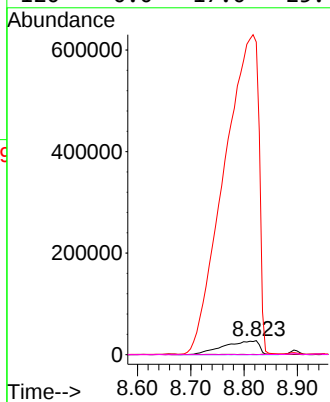
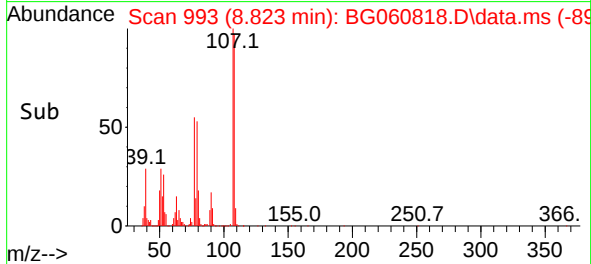


#22  
Acetophenone  
Concen: 14.911 ng  
RT: 8.823 min Scan# 91  
Delta R.T. 0.045 min  
Lab File: BG060818.D  
Acq: 6 Apr 2024 19:37

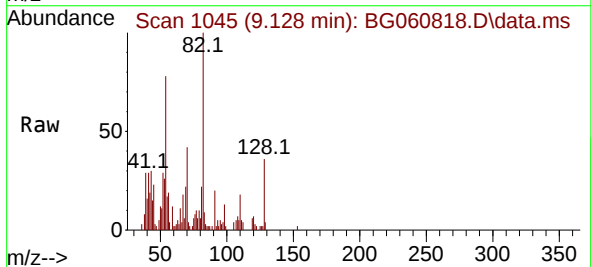
Instrument :  
BNA\_G  
ClientSampleId :



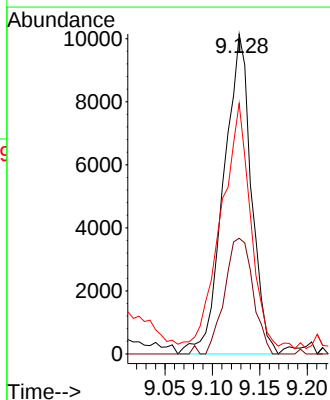
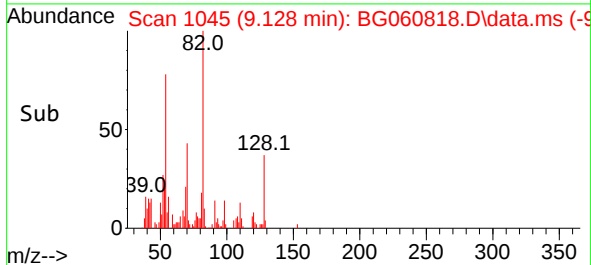
Tgt Ion:105 Resp: 125805  
Ion Ratio Lower Upper  
105 100  
71 1.7 4.9 7.3#  
51 2215.1 31.1 46.7#  
120 0.0 17.0 25.4#

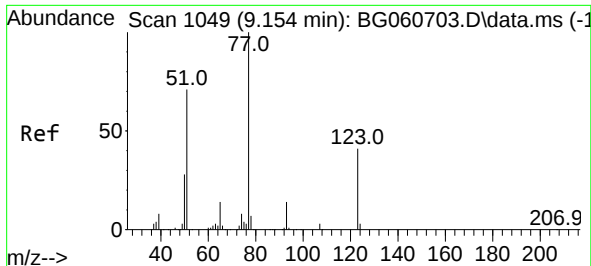


#23  
Nitrobenzene-d5  
Concen: 3.826 ng  
RT: 9.128 min Scan# 1045  
Delta R.T. 0.015 min  
Lab File: BG060818.D  
Acq: 6 Apr 2024 19:37



Tgt Ion: 82 Resp: 20518  
Ion Ratio Lower Upper  
82 100  
128 36.2 31.2 46.8  
54 78.3 53.2 79.8

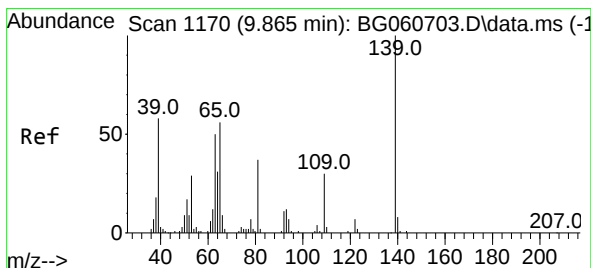
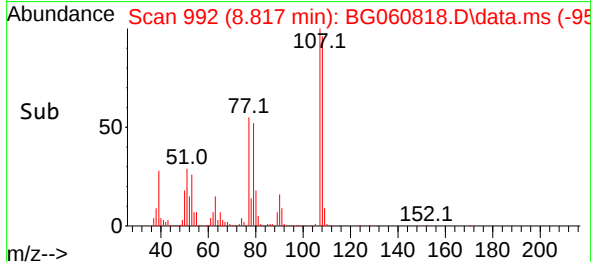
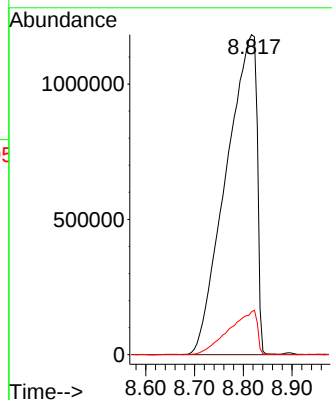
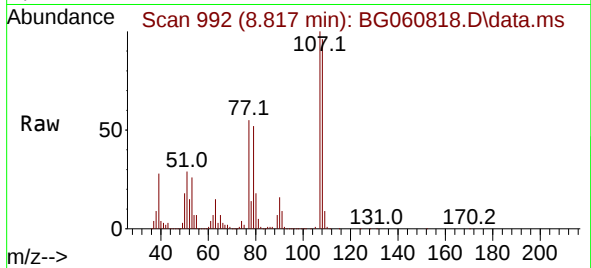




#24  
Nitrobenzene  
Concen: 821.287 ng  
RT: 8.817 min Scan# 91  
Delta R.T. -0.337 min  
Lab File: BG060818.D  
Acq: 6 Apr 2024 19:37

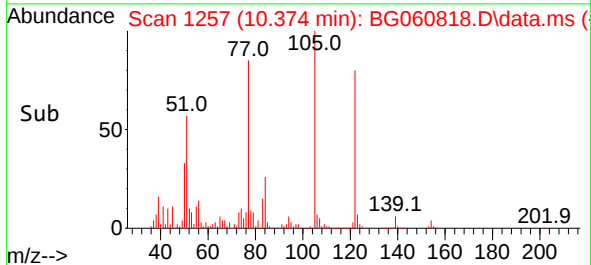
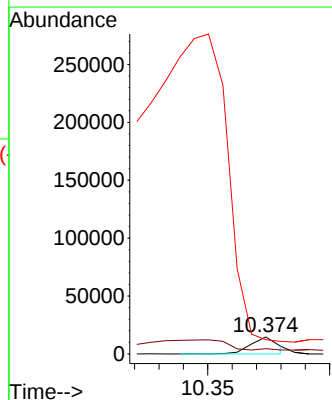
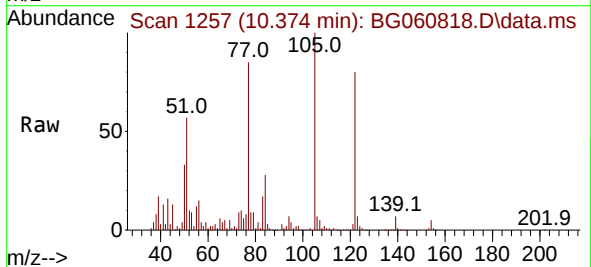
Instrument :  
BNA\_G  
ClientSampleId :

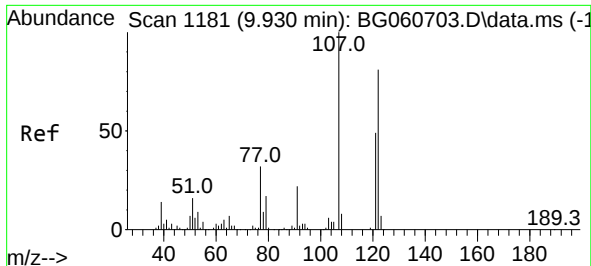
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Ion Ratio Lower Upper  
77 100  
123 0.0 32.7 49.1#  
65 13.4 11.3 16.9



#26  
2-Nitrophenol  
Concen: 8.756 ng  
RT: 10.374 min Scan# 1257  
Delta R.T. 0.509 min  
Lab File: BG060818.D  
Acq: 6 Apr 2024 19:37

Tgt Ion:139 Resp: 11303  
Ion Ratio Lower Upper  
139 100  
109 31.4 23.9 35.9  
65 83.4 44.5 66.7#





#27

2,4-Dimethylphenol

Concen: 867.945 ng

RT: 9.974 min Scan# 1189

Delta R.T. 0.044 min

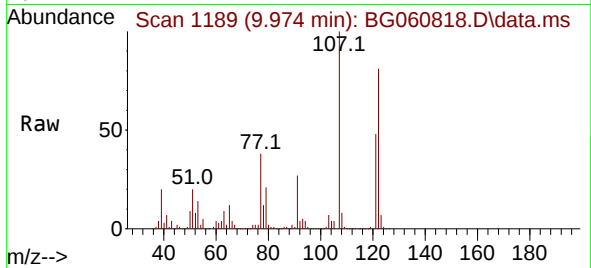
Lab File: BG060818.D

Acq: 6 Apr 2024 19:37

Instrument :

BNA\_G

ClientSampleId :



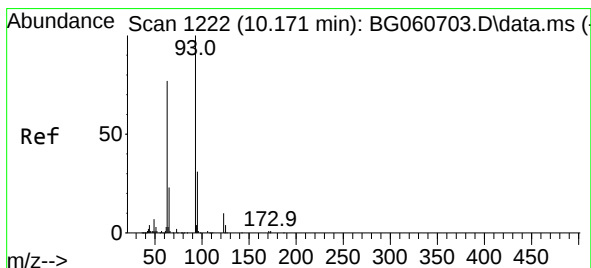
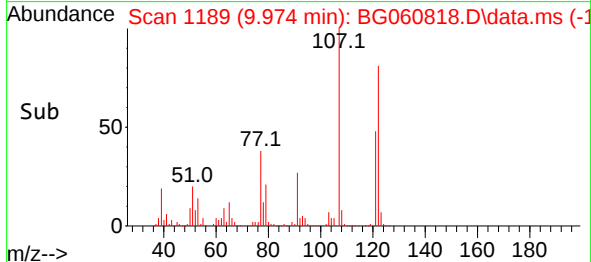
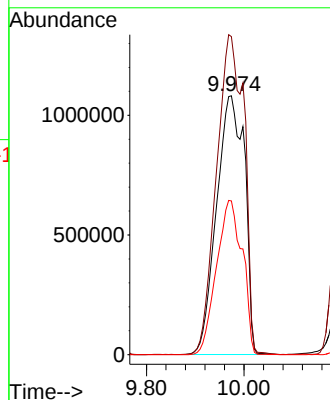
Tgt Ion:122 Resp: 4306234

Ion Ratio Lower Upper

122 100

107 122.9 98.6 147.8

121 59.4 48.1 72.1



#28

bis(2-Chloroethoxy)methane

Concen: 52.704 ng

RT: 10.297 min Scan# 1244

Delta R.T. 0.127 min

Lab File: BG060818.D

Acq: 6 Apr 2024 19:37

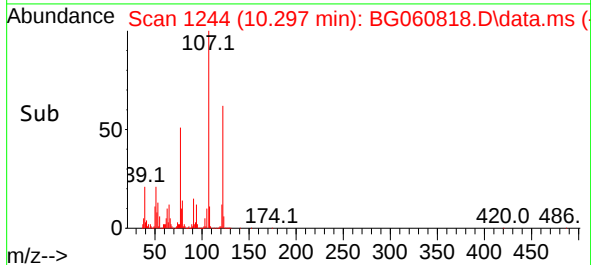
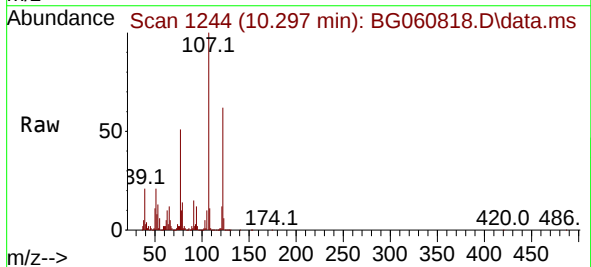
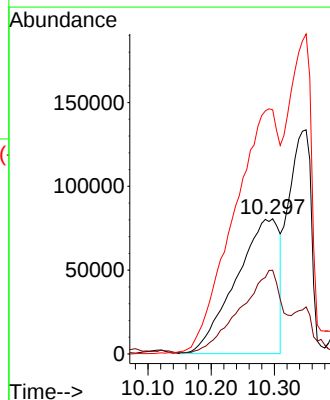
Tgt Ion: 93 Resp: 384308

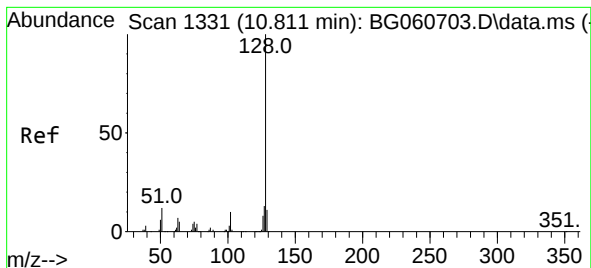
Ion Ratio Lower Upper

93 100

95 61.9 25.1 37.7#

123 180.6 8.0 12.0#





#31

Naphthalene

Concen: 2.605 ng

RT: 10.814 min Scan# 1189

Delta R.T. 0.003 min

Lab File: BG060818.D

Acq: 6 Apr 2024 19:37

Instrument :

BNA\_G

ClientSampleId :

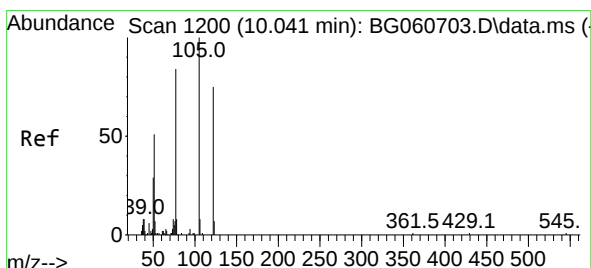
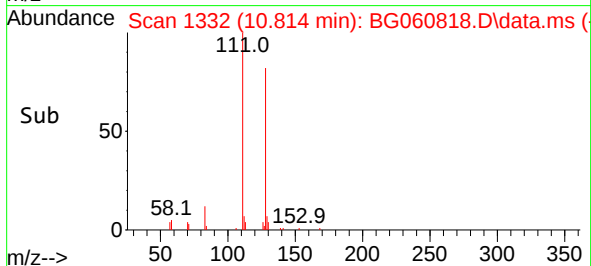
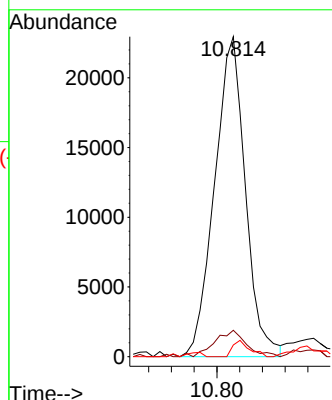
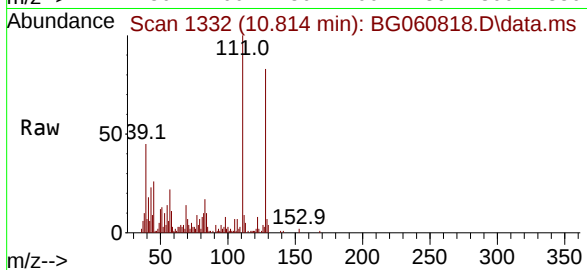
Tgt Ion:128 Resp: 43120

Ion Ratio Lower Upper

128 100

129 8.2 8.5 12.7#

127 3.6 10.5 15.7#



#32

Benzoic acid

Concen: 1125.574 ng

RT: 9.974 min Scan# 1189

Delta R.T. -0.067 min

Lab File: BG060818.D

Acq: 6 Apr 2024 19:37

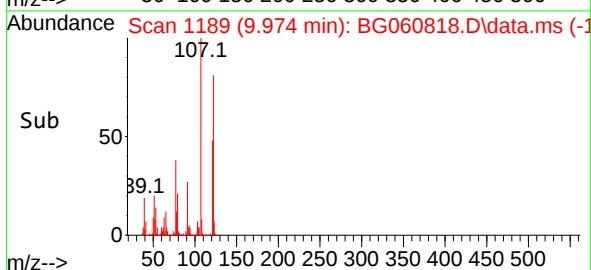
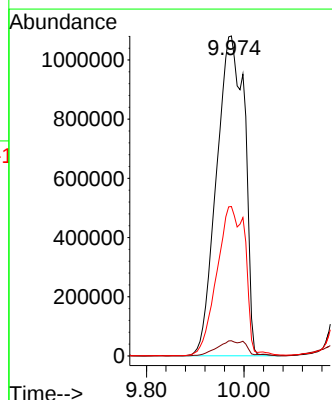
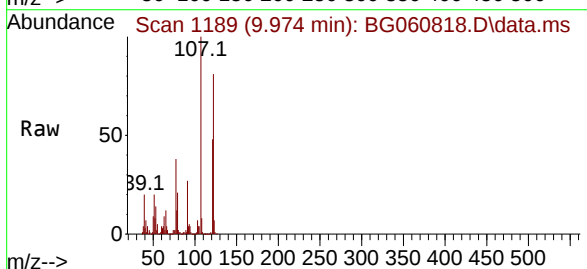
Tgt Ion:122 Resp: 4306234

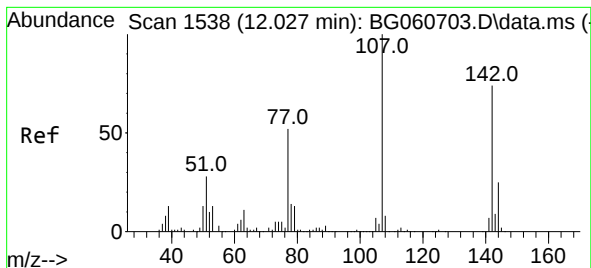
Ion Ratio Lower Upper

122 100

105 4.7 104.5 144.5#

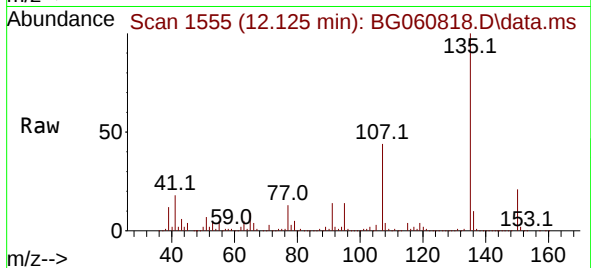
77 46.7 85.3 125.3#



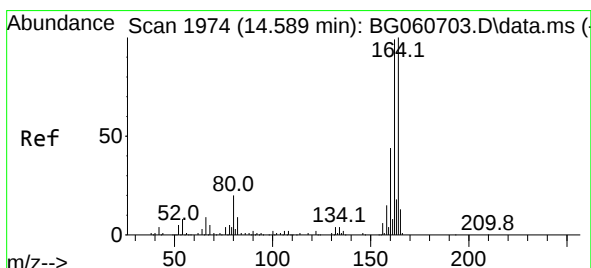
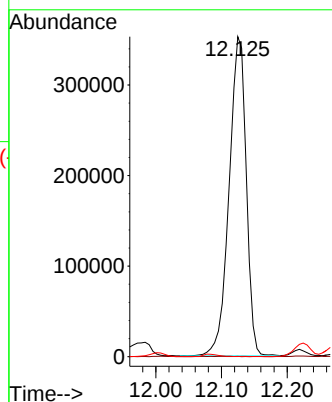
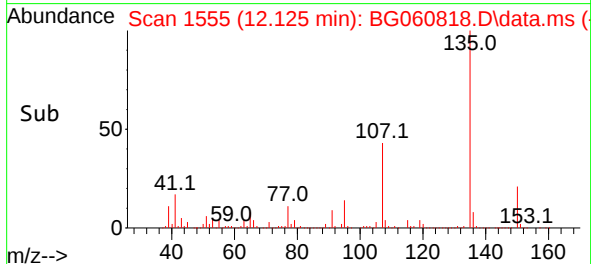


#36  
4-Chloro-3-methylphenol  
Concen: 109.915 ng  
RT: 12.125 min Scan# 1  
Delta R.T. 0.097 min  
Lab File: BG060818.D  
Acq: 6 Apr 2024 19:37

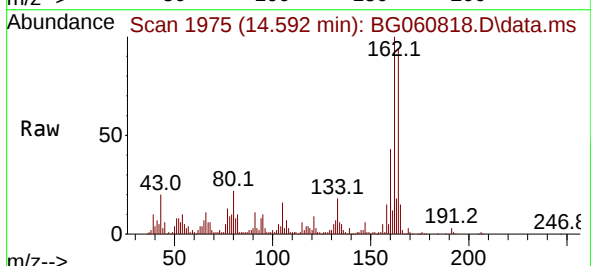
Instrument :  
BNA\_G  
ClientSampleId :



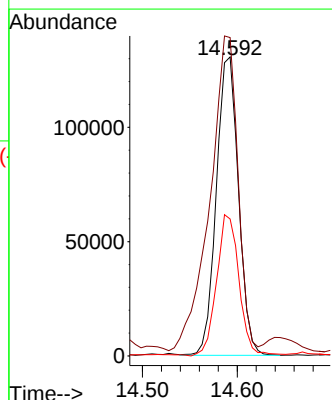
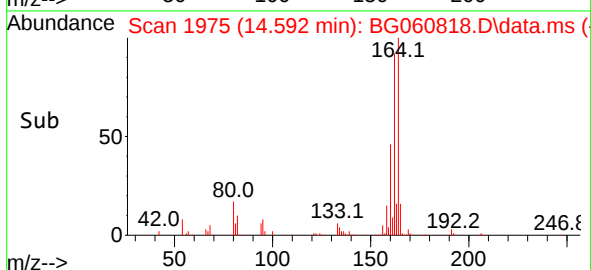
Tgt Ion:107 Resp: 639721  
Ion Ratio Lower Upper  
107 100  
144 0.1 20.0 30.0#  
142 0.1 59.2 88.8#

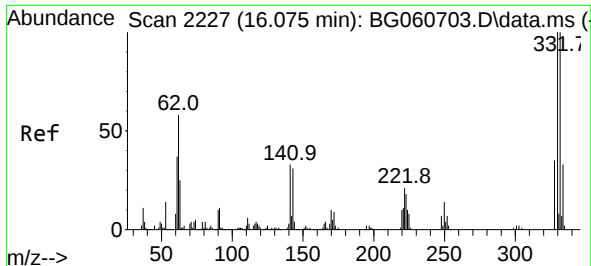


#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.592 min Scan# 1975  
Delta R.T. 0.003 min  
Lab File: BG060818.D  
Acq: 6 Apr 2024 19:37



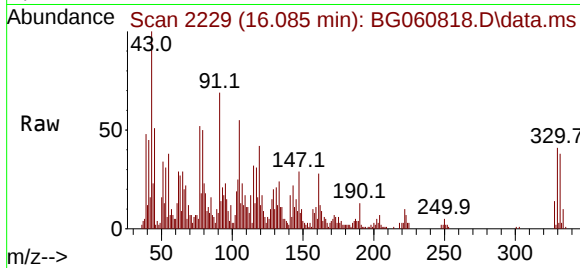
Tgt Ion:164 Resp: 212033  
Ion Ratio Lower Upper  
164 100  
162 106.5 79.5 119.3  
160 45.8 35.4 53.0



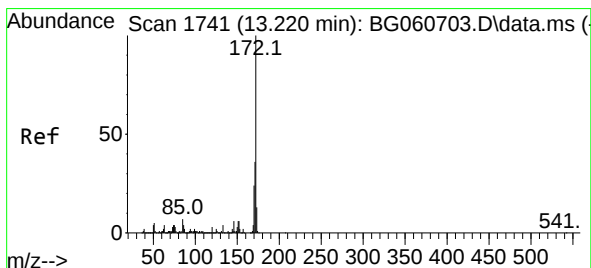
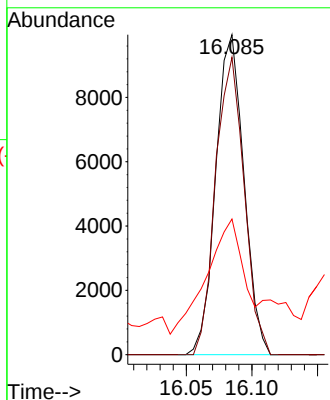
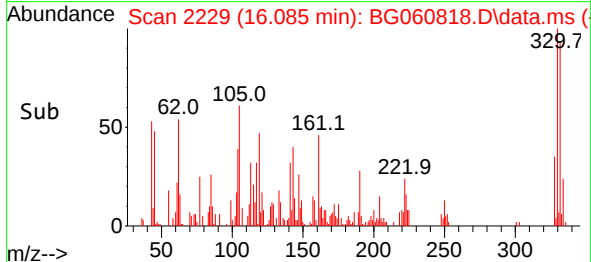


#42  
2,4,6-Tribromophenol  
Concen: 6.155 ng  
RT: 16.085 min Scan# 21  
Delta R.T. 0.009 min  
Lab File: BG060818.D  
Acq: 6 Apr 2024 19:37

Instrument :  
BNA\_G  
ClientSampleId :

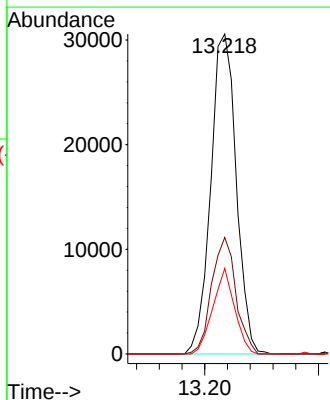
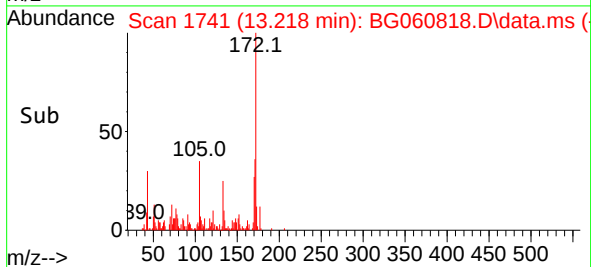
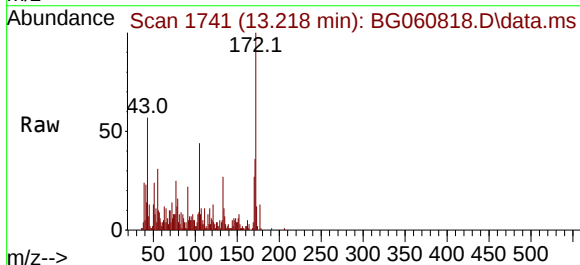


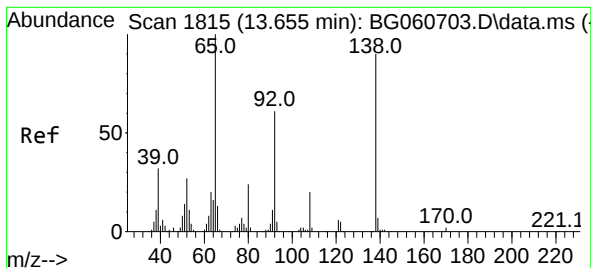
Tgt Ion:330 Resp: 14814  
Ion Ratio Lower Upper  
330 100  
332 94.4 78.2 117.4  
141 49.0 27.0 40.6#



#45  
2-Fluorobiphenyl  
Concen: 3.297 ng  
RT: 13.218 min Scan# 1741  
Delta R.T. -0.002 min  
Lab File: BG060818.D  
Acq: 6 Apr 2024 19:37

Tgt Ion:172 Resp: 47639  
Ion Ratio Lower Upper  
172 100  
171 36.4 28.7 43.1  
170 26.8 19.4 29.0





#48

2-Nitroaniline

Concen: 34.729 ng

RT: 13.676 min Scan# 1819

Delta R.T. 0.021 min

Lab File: BG060818.D

Acq: 6 Apr 2024 19:37

Instrument :

BNA\_G

ClientSampleId :

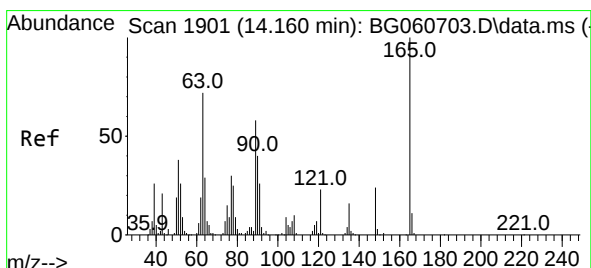
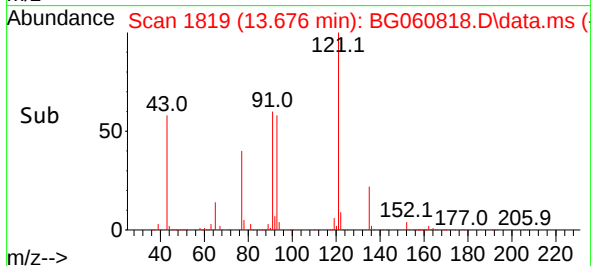
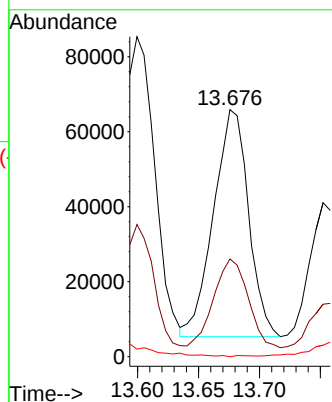
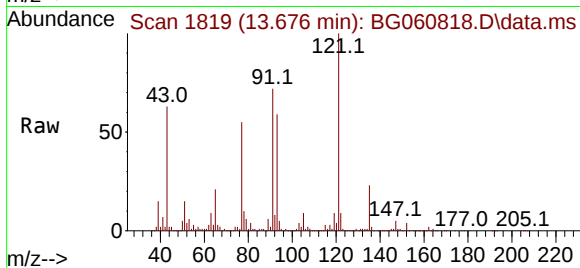
Tgt Ion: 65 Resp: 121072

Ion Ratio Lower Upper

65 100

92 39.6 48.6 72.8#

138 0.0 72.2 108.4#



#51

2,6-Dinitrotoluene

Concen: 4.387 ng

RT: 13.987 min Scan# 1872

Delta R.T. -0.173 min

Lab File: BG060818.D

Acq: 6 Apr 2024 19:37

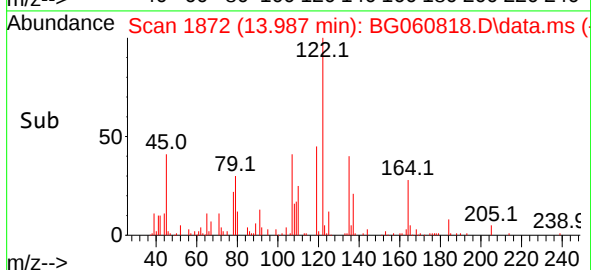
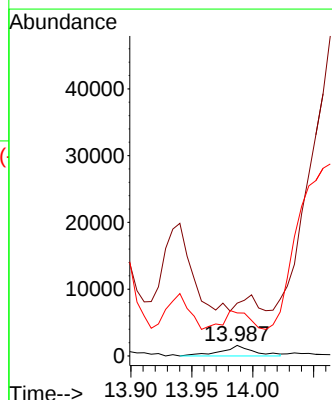
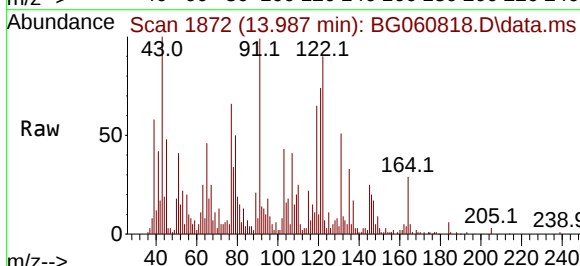
Tgt Ion:165 Resp: 2890

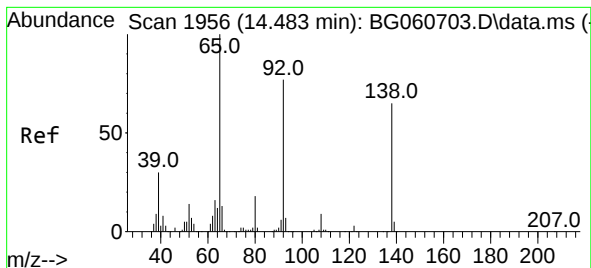
Ion Ratio Lower Upper

165 100

63 500.1 58.2 87.4#

89 407.8 46.1 69.1#

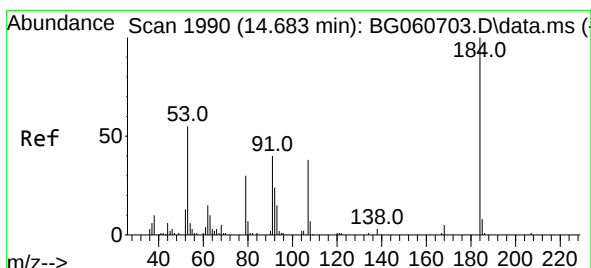
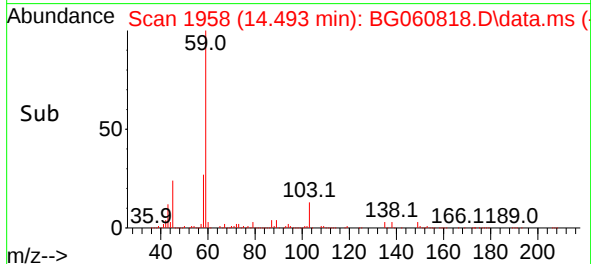
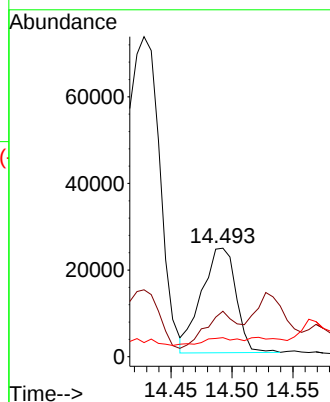
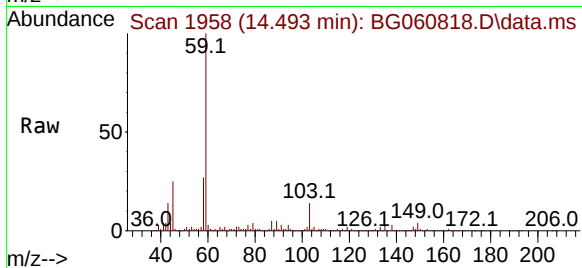




#53  
3-Nitroaniline  
Concen: 16.406 ng  
RT: 14.493 min Scan# 1956  
Delta R.T. 0.010 min  
Lab File: BG060818.D  
Acq: 6 Apr 2024 19:37

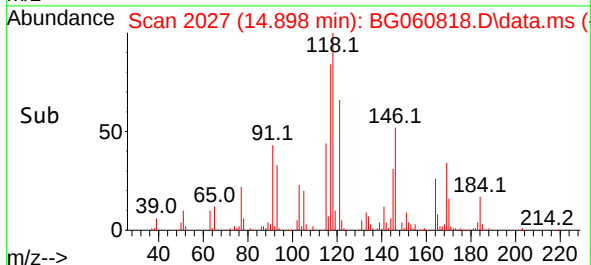
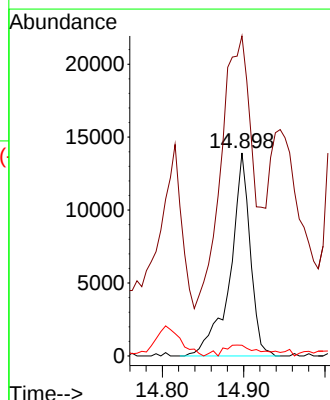
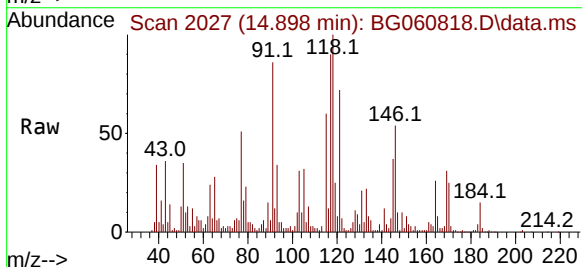
Instrument :  
BNA\_G  
ClientSampleId :

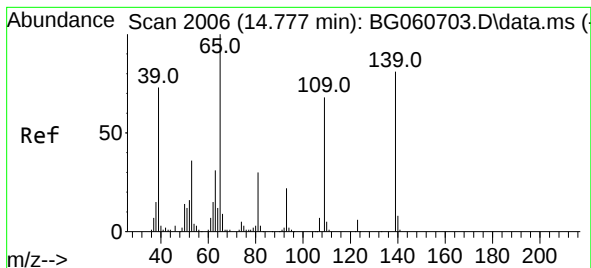
Tgt Ion:138 Resp: 47437  
Ion Ratio Lower Upper  
138 100  
108 41.8 11.3 16.9#  
92 17.6 94.1 141.1#



#54  
2,4-Dinitrophenol  
Concen: 20.220 ng  
RT: 14.898 min Scan# 2027  
Delta R.T. 0.215 min  
Lab File: BG060818.D  
Acq: 6 Apr 2024 19:37

Tgt Ion:184 Resp: 23588  
Ion Ratio Lower Upper  
184 100  
63 157.6 51.3 76.9#  
154 5.3 59.9 89.9#

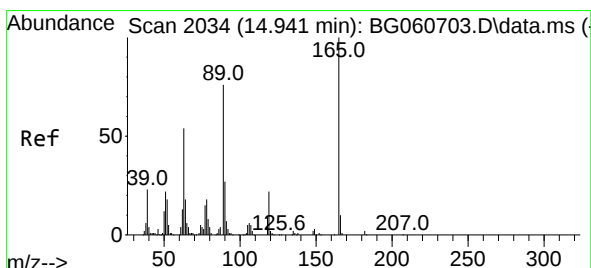
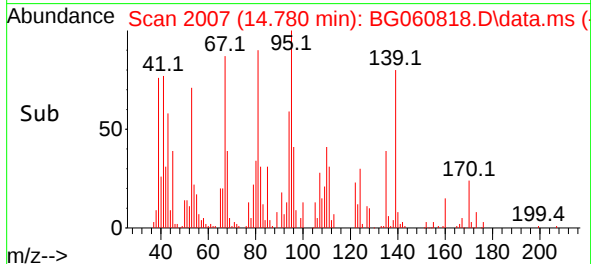
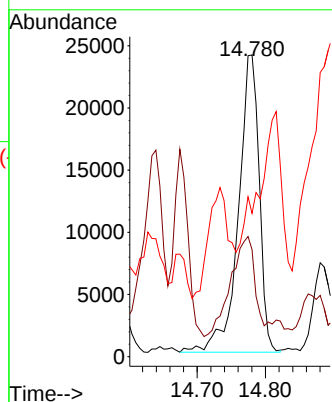
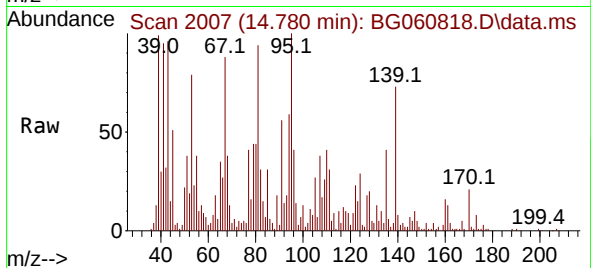




#56  
4-Nitrophenol  
Concen: 20.656 ng  
RT: 14.780 min Scan# 2007  
Delta R.T. 0.003 min  
Lab File: BG060818.D  
Acq: 6 Apr 2024 19:37

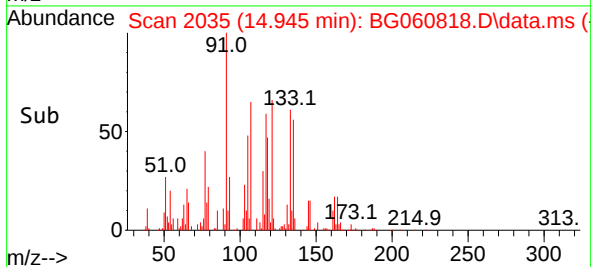
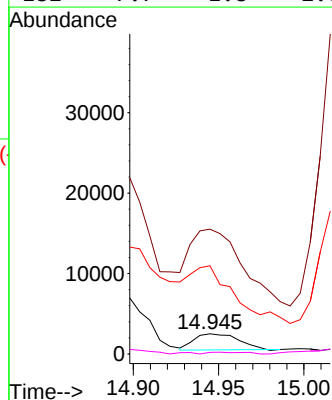
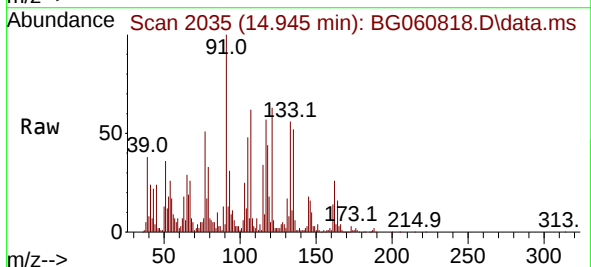
Instrument :  
BNA\_G  
ClientSampleId :

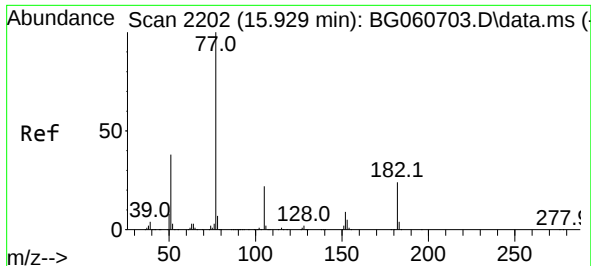
Tgt Ion:139 Resp: 50608  
Ion Ratio Lower Upper  
139 100  
109 35.5 64.0 104.0#  
65 47.5 104.3 144.3#



#57  
2,4-Dinitrotoluene  
Concen: 4.160 ng  
RT: 14.945 min Scan# 2035  
Delta R.T. 0.004 min  
Lab File: BG060818.D  
Acq: 6 Apr 2024 19:37

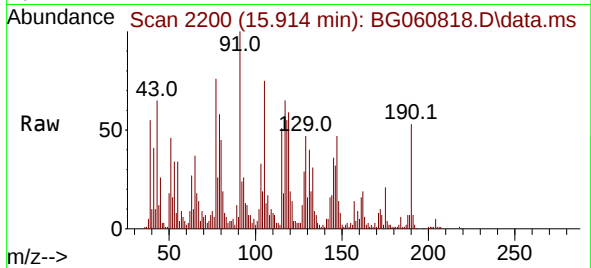
Tgt Ion:165 Resp: 3659  
Ion Ratio Lower Upper  
165 100  
63 620.1 43.4 65.0#  
89 437.9 61.0 91.6#  
182 7.7 1.8 2.6#



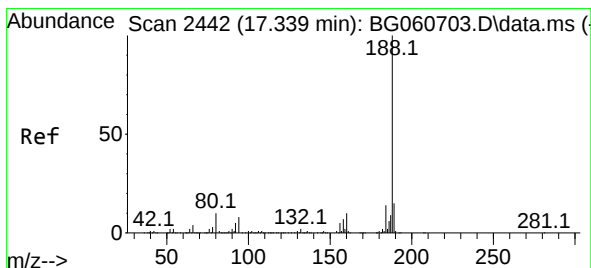
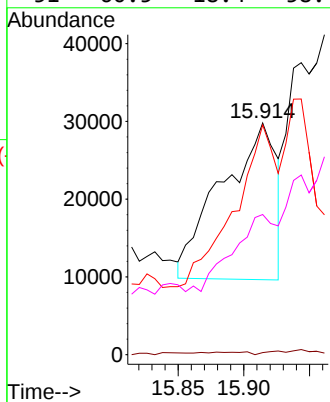
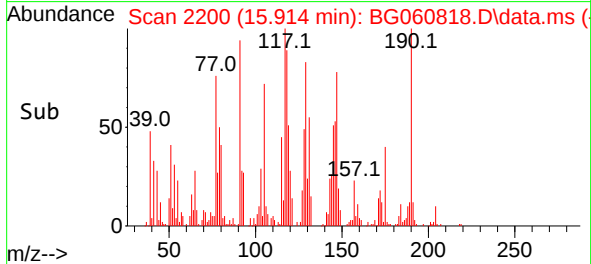


#63  
Azobenzene  
Concen: 3.551 ng  
RT: 15.914 min Scan# 21  
Delta R.T. -0.015 min  
Lab File: BG060818.D  
Acq: 6 Apr 2024 19:37

Instrument :  
BNA\_G  
ClientSampleId :

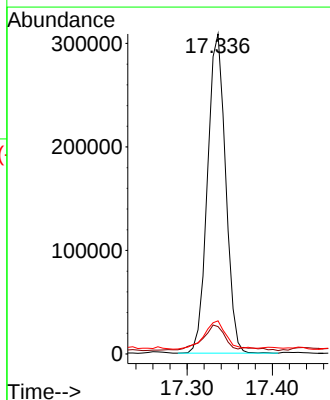
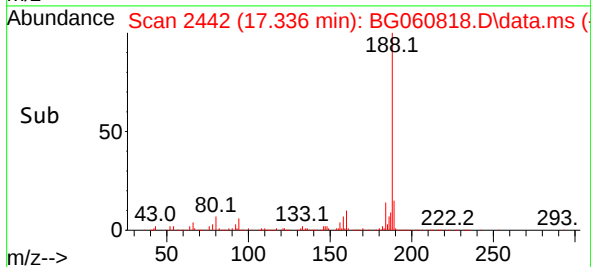
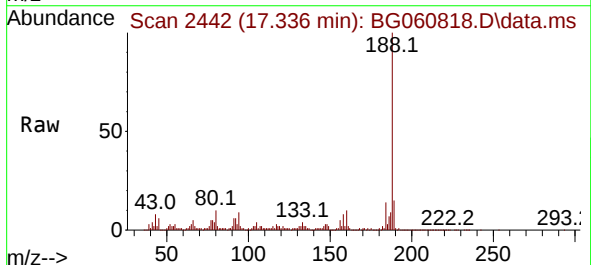


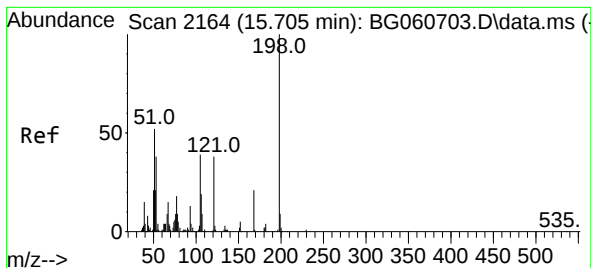
Tgt Ion: 77 Resp: 58337  
Ion Ratio Lower Upper  
77 100  
182 0.9 3.9 43.9#  
105 99.2 1.7 41.7#  
51 60.5 18.4 58.4#



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.336 min Scan# 2442  
Delta R.T. -0.002 min  
Lab File: BG060818.D  
Acq: 6 Apr 2024 19:37

Tgt Ion:188 Resp: 453924  
Ion Ratio Lower Upper  
188 100  
94 8.5 6.6 9.8  
80 10.3 7.6 11.4

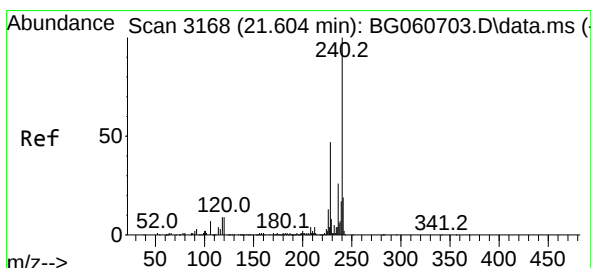
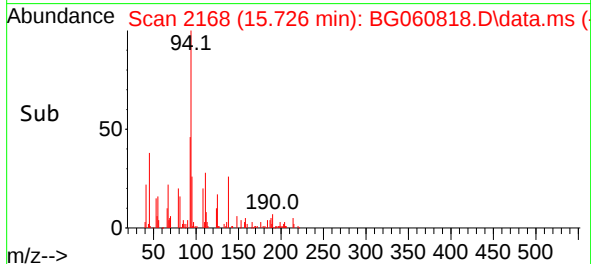
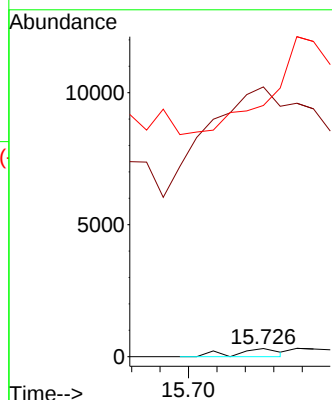
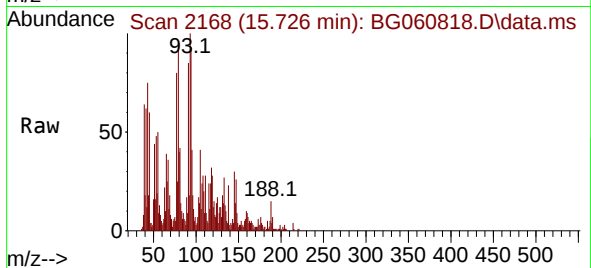




#65  
4,6-Dinitro-2-methylphenol  
Concen: 7.180 ng  
RT: 15.726 min Scan# 2168  
Delta R.T. 0.021 min  
Lab File: BG060818.D  
Acq: 6 Apr 2024 19:37

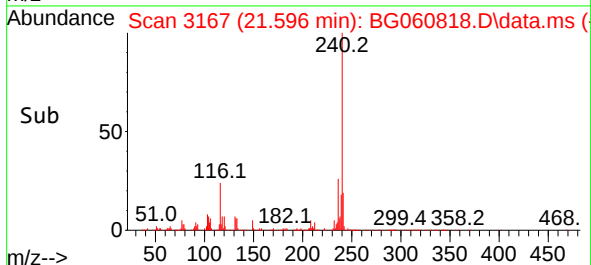
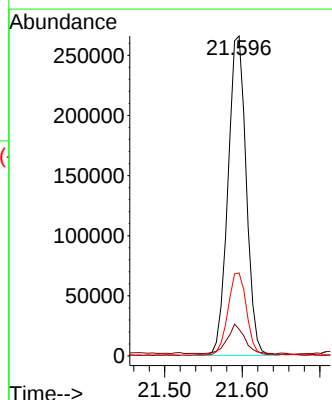
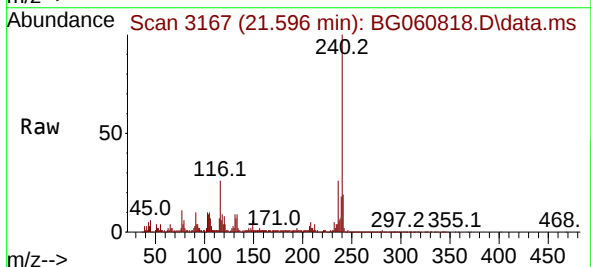
Instrument :  
BNA\_G  
ClientSampleId :

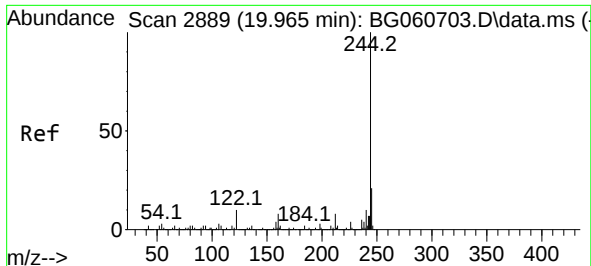
Tgt Ion:198 Resp: 320  
Ion Ratio Lower Upper  
198 100  
51 3327.7 36.7 76.7#  
105 3099.7 19.1 59.1#



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.596 min Scan# 3167  
Delta R.T. -0.008 min  
Lab File: BG060818.D  
Acq: 6 Apr 2024 19:37

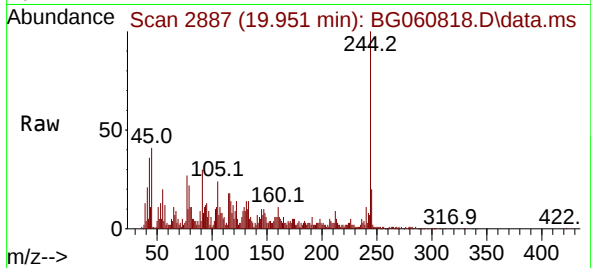
Tgt Ion:240 Resp: 436325  
Ion Ratio Lower Upper  
240 100  
120 8.4 7.1 10.7  
236 25.9 20.7 31.1



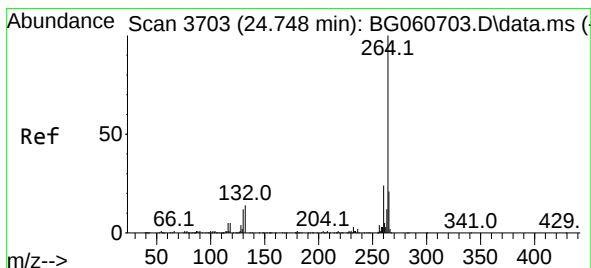
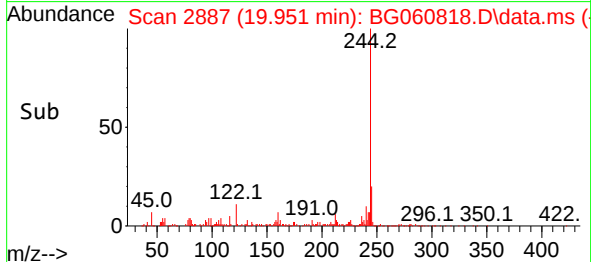
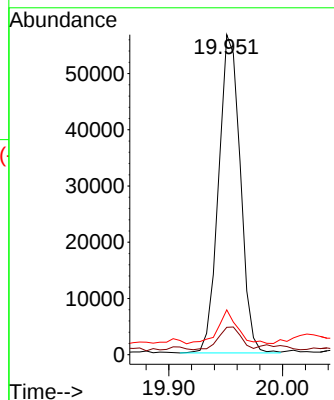


#79  
 Terphenyl-d14  
 Concen: 3.027 ng  
 RT: 19.951 min Scan# 21  
 Delta R.T. -0.014 min  
 Lab File: BG060818.D  
 Acq: 6 Apr 2024 19:37

Instrument :  
 BNA\_G  
 ClientSampleId :



Tgt Ion:244 Resp: 75017  
 Ion Ratio Lower Upper  
 244 100  
 212 8.6 6.2 9.2  
 122 14.0 7.8 11.8#



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 24.733 min Scan# 3701  
 Delta R.T. -0.014 min  
 Lab File: BG060818.D  
 Acq: 6 Apr 2024 19:37

Tgt Ion:264 Resp: 528243  
 Ion Ratio Lower Upper  
 264 100  
 260 25.3 19.5 29.3  
 265 21.4 16.9 25.3

