

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG020923\  
 Data File : BG056597.D  
 Acq On : 9 Feb 2023 14:47  
 Operator : CG/JU  
 Sample : 01508-10  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 CV-1

Quant Time: Feb 10 00:14:57 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG012723.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Feb 08 03:02:11 2023  
 Response via : Initial Calibration

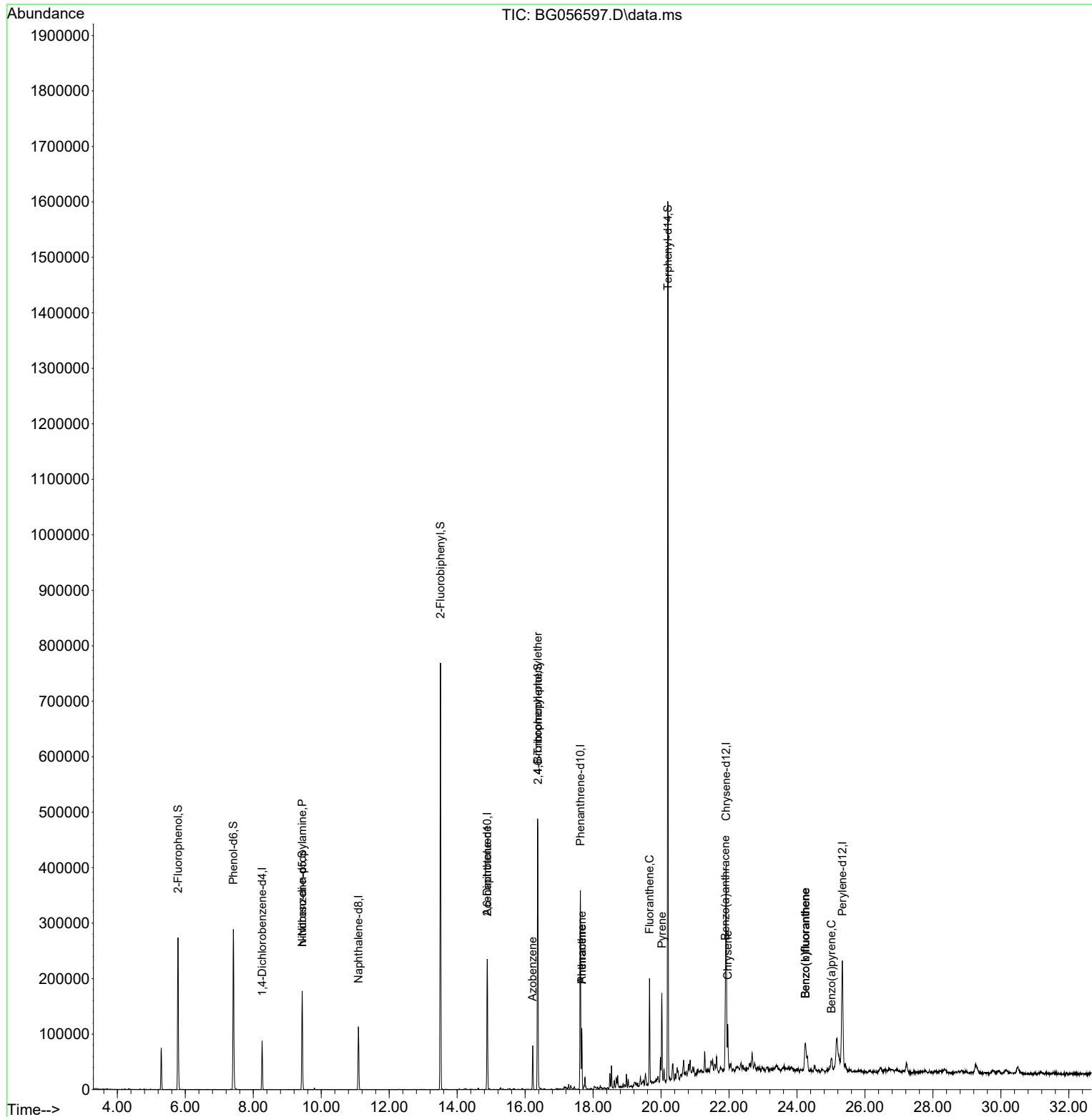
| Compound                      | R.T.   | QIon | Response | Conc      | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-----------|-------|----------|
| -----                         |        |      |          |           |       |          |
| Internal Standards            |        |      |          |           |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.259  | 152  | 29041    | 20.000    | ng    | #-0.01   |
| 21) Naphthalene-d8            | 11.097 | 136  | 111482   | 20.000    | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.886 | 164  | 93715    | 20.000    | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.624 | 188  | 252570   | 20.000    | ng    | 0.00     |
| 76) Chrysene-d12              | 21.913 | 240  | 233988   | 20.000    | ng    | -0.01    |
| 86) Perylene-d12              | 25.333 | 264  | 238787   | 20.000    | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |           |       |          |
| 5) 2-Fluorophenol             | 5.785  | 112  | 168196   | 106.542   | ng    | 0.00     |
| 7) Phenol-d6                  | 7.413  | 99   | 233858   | 99.979    | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.440  | 82   | 127992   | 65.195    | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.373 | 330  | 112475   | 90.277    | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.506 | 172  | 439843   | 65.071    | ng    | -0.01    |
| 79) Terphenyl-d14             | 20.198 | 244  | 890830   | 66.868    | ng    | -0.01    |
| Target Compounds              |        |      |          |           |       |          |
|                               |        |      |          |           |       | Qvalue   |
| 9) Benzaldehyde               | 7.413  | 77   | 301      | Below Cal | #     | 1        |
| 19) n-Nitroso-di-n-propyla... | 9.440  | 70   | 15443    | 11.456    | ng    | # 74     |
| 51) 2,6-Dinitrotoluene        | 14.886 | 165  | 12327    | 7.455     | ng    | # 36     |
| 63) Azobenzene                | 16.220 | 77   | 19448    | 3.970     | ng    | # 1      |
| 67) 4-Bromophenyl-phenylether | 16.367 | 248  | 8895     | 2.751     | ng    | # 1      |
| 71) Phenanthrene              | 17.666 | 178  | 75558    | 5.716     | ng    | 96       |
| 72) Anthracene                | 17.666 | 178  | 75558    | 5.568     | ng    | 99       |
| 75) Fluoranthene              | 19.657 | 202  | 129851   | 7.783     | ng    | 98       |
| 78) Pyrene                    | 20.022 | 202  | 110986   | 6.669     | ng    | 97       |
| 81) Benzo(a)anthracene        | 21.890 | 228  | 76555    | 4.680     | ng    | 96       |
| 83) Chrysene                  | 21.961 | 228  | 62276    | 4.052     | ng    | 98       |
| 88) Benzo(b)fluoranthene      | 24.246 | 252  | 71169    | 4.802     | ng    | 95       |
| 89) Benzo(k)fluoranthene      | 24.246 | 252  | 71169    | 4.756     | ng    | 96       |
| 90) Benzo(a)pyrene            | 25.010 | 252  | 31723    | 2.173     | ng    | 97       |
| -----                         |        |      |          |           |       |          |

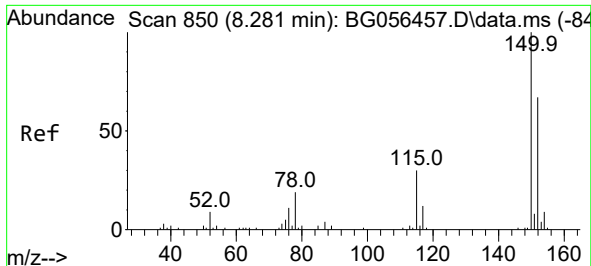
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG020923\  
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Sample : 01508-10  
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Instrument :  
BNA\_G  
ClientSampleId :  
CV-1

Quant Time: Feb 10 00:14:57 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG012723.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Feb 08 03:02:11 2023  
Response via : Initial Calibration

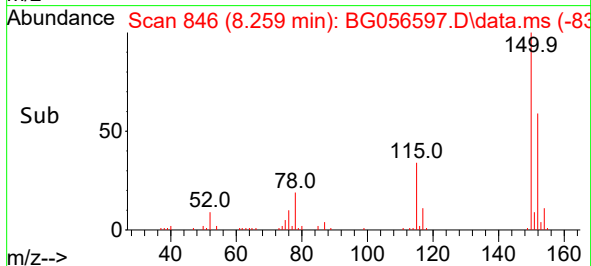
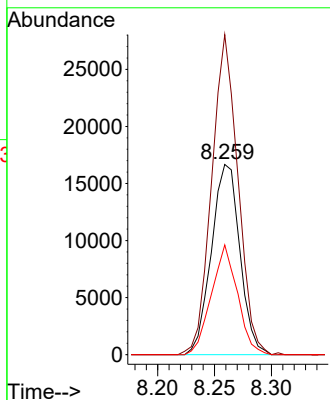
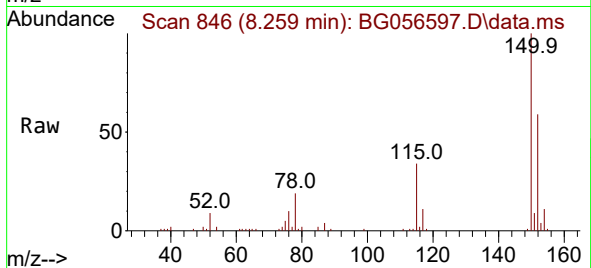




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.259 min Scan# 84  
Delta R.T. -0.010 min  
Lab File: BG056597.D  
Acq: 9 Feb 2023 14:47

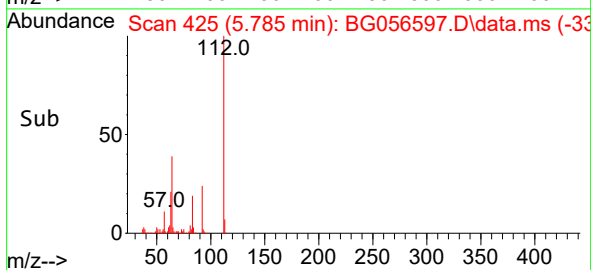
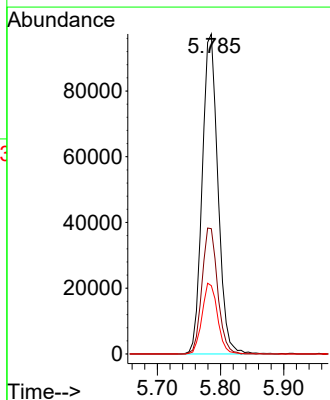
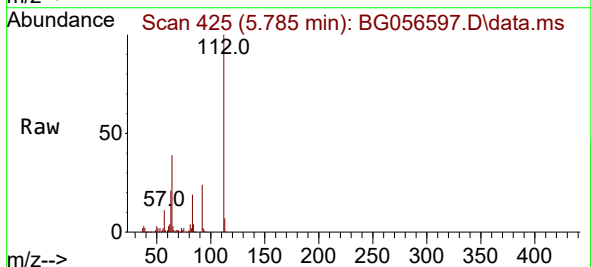
Instrument :  
BNA\_G  
ClientSampleId :  
CV-1

Tgt Ion:152 Resp: 29041  
Ion Ratio Lower Upper  
152 100  
150 168.2 120.2 180.4  
115 57.7 36.3 54.5#



#5  
2-Fluorophenol  
Concen: 106.542 ng  
RT: 5.785 min Scan# 425  
Delta R.T. -0.005 min  
Lab File: BG056597.D  
Acq: 9 Feb 2023 14:47

Tgt Ion:112 Resp: 168196  
Ion Ratio Lower Upper  
112 100  
64 39.1 31.9 47.9  
63 21.3 17.4 26.0

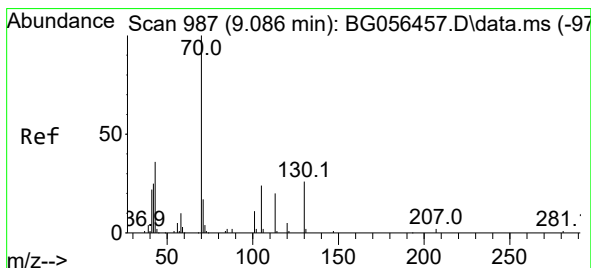
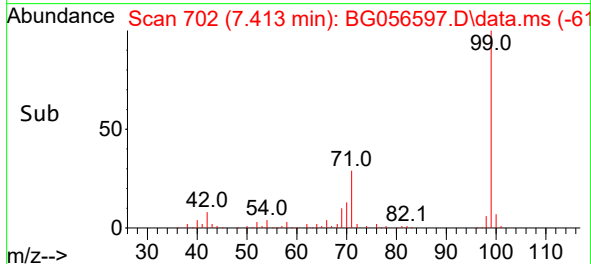
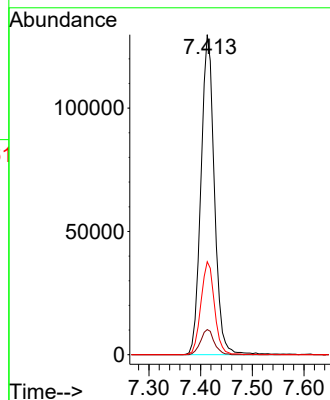
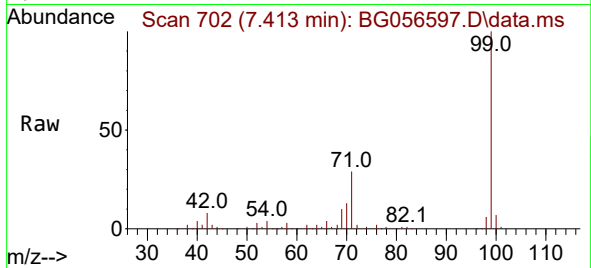




#7  
Phenol-d6  
Concen: 99.979 ng  
RT: 7.413 min Scan# 704  
Delta R.T. -0.005 min  
Lab File: BG056597.D  
Acq: 9 Feb 2023 14:47

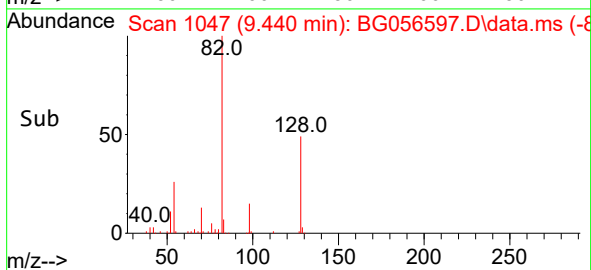
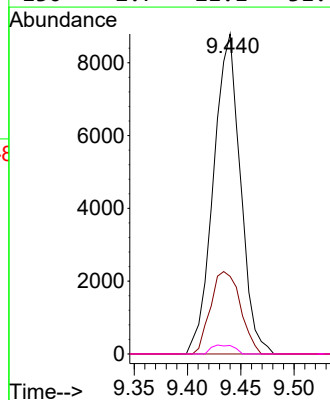
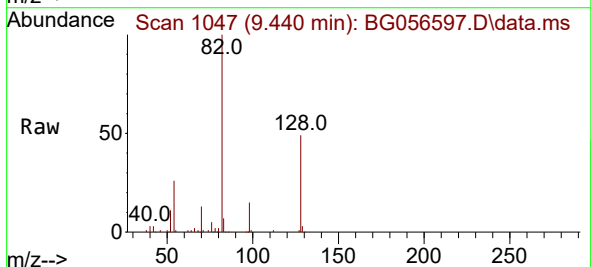
Instrument :  
BNA\_G  
ClientSampleId :  
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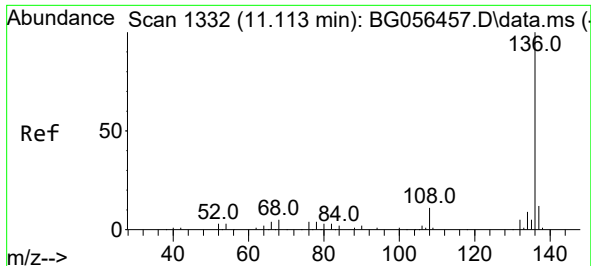
Tgt Ion: 99 Resp: 233858  
Ion Ratio Lower Upper  
99 100  
42 7.9 6.6 10.0  
71 29.0 23.4 35.0



#19  
n-Nitroso-di-n-propylamine  
Concen: 11.456 ng  
RT: 9.440 min Scan# 1047  
Delta R.T. 0.365 min  
Lab File: BG056597.D  
Acq: 9 Feb 2023 14:47

Tgt Ion: 70 Resp: 15443  
Ion Ratio Lower Upper  
70 100  
42 24.3 20.2 30.4  
101 0.0 9.1 13.7#  
130 2.7 21.1 31.7#

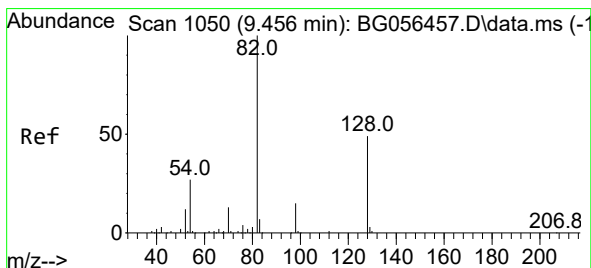
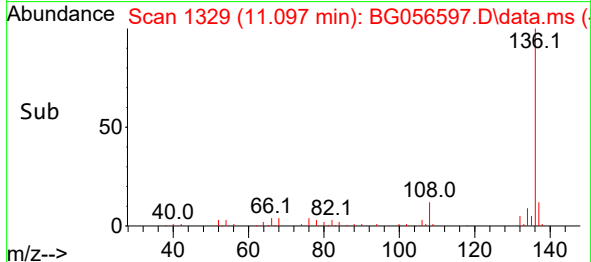
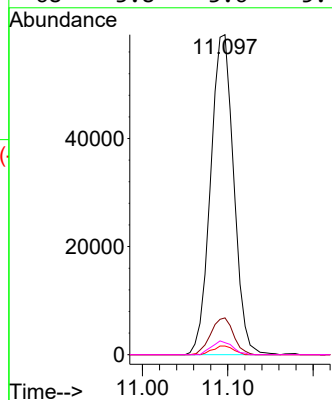
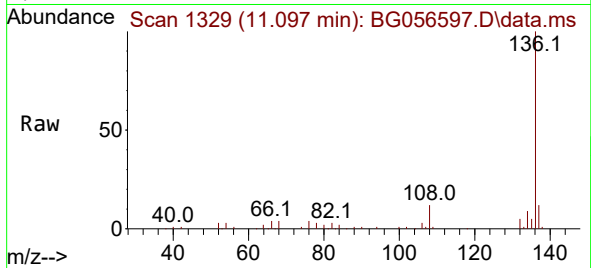




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.097 min Scan# 111482  
Delta R.T. -0.005 min  
Lab File: BG056597.D  
Acq: 9 Feb 2023 14:47

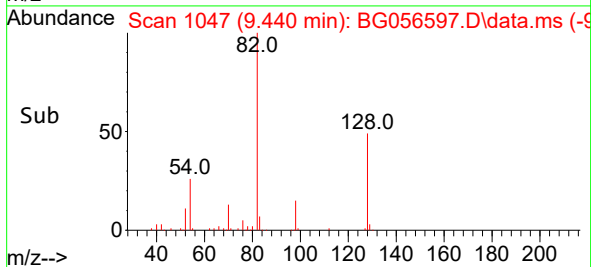
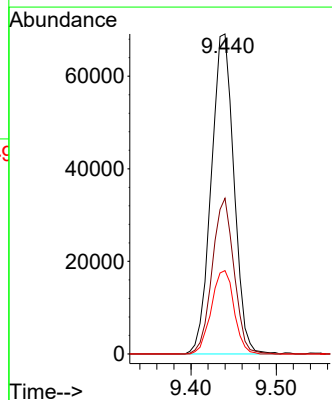
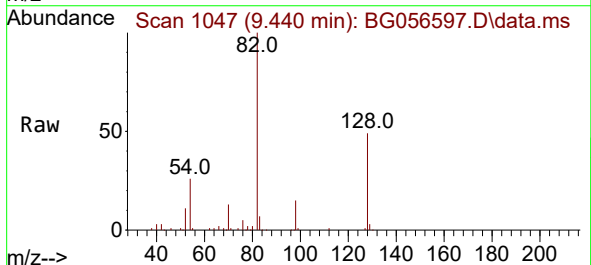
Instrument :  
BNA\_G  
ClientSampleId :  
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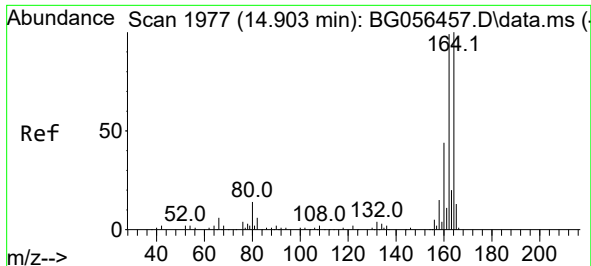
Tgt Ion:136 Resp: 111482  
Ion Ratio Lower Upper  
136 100  
137 11.5 9.4 14.0  
54 2.7 2.2 3.4  
68 3.8 3.6 5.4



#23  
Nitrobenzene-d5  
Concen: 65.195 ng  
RT: 9.440 min Scan# 1047  
Delta R.T. -0.005 min  
Lab File: BG056597.D  
Acq: 9 Feb 2023 14:47

Tgt Ion: 82 Resp: 127992  
Ion Ratio Lower Upper  
82 100  
128 48.6 39.4 59.2  
54 26.0 21.4 32.2





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.886 min Scan# 1974

Delta R.T. -0.005 min

Lab File: BG056597.D

Acq: 9 Feb 2023 14:47

Instrument :

BNA\_G

ClientSampleId :

CV-1

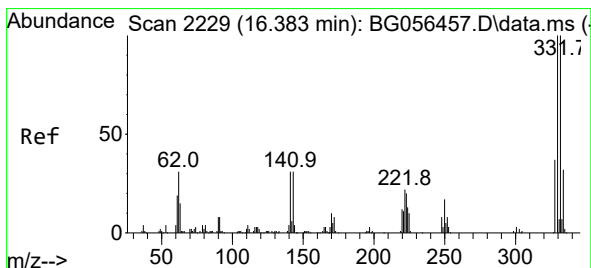
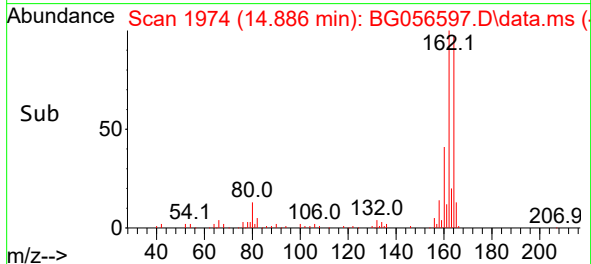
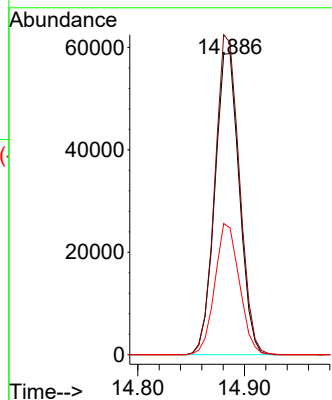
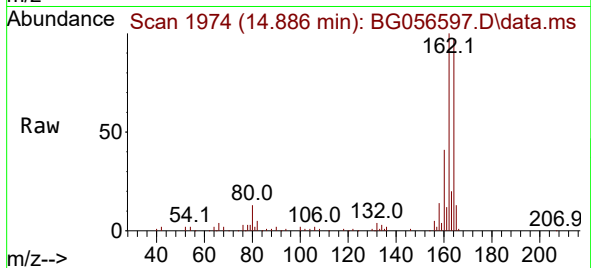
Tgt Ion:164 Resp: 93715

Ion Ratio Lower Upper

164 100

162 103.6 79.6 119.4

160 42.1 34.9 52.3



#42

2,4,6-Tribromophenol

Concen: 90.277 ng

RT: 16.373 min Scan# 2227

Delta R.T. -0.005 min

Lab File: BG056597.D

Acq: 9 Feb 2023 14:47

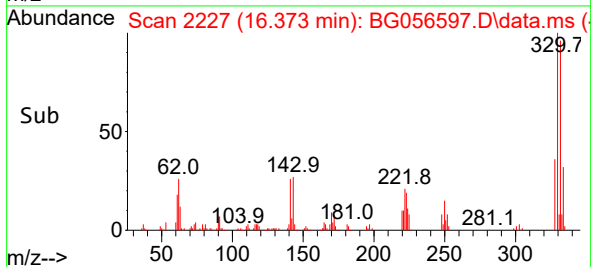
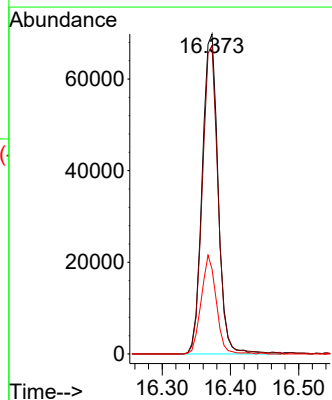
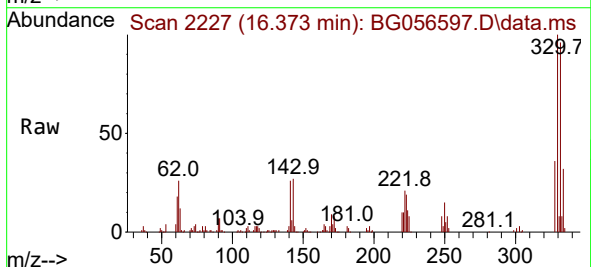
Tgt Ion:330 Resp: 112475

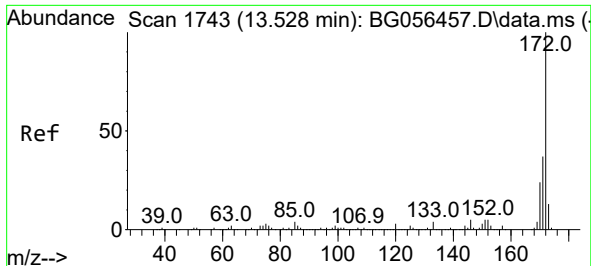
Ion Ratio Lower Upper

330 100

332 95.6 79.0 118.6

141 29.3 24.2 36.4

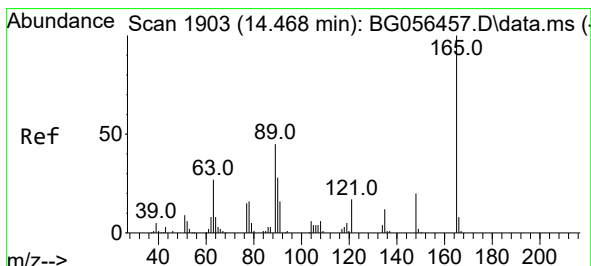
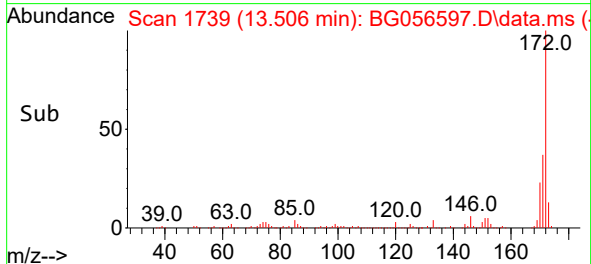
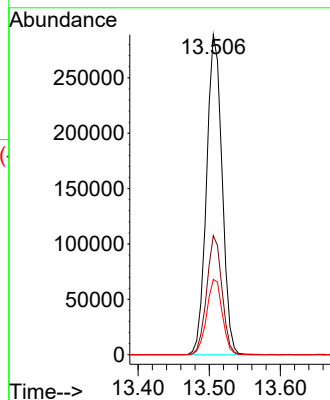
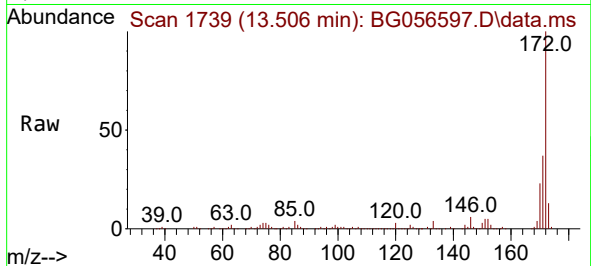




#45  
2-Fluorobiphenyl  
Concen: 65.071 ng  
RT: 13.506 min Scan# 1  
Delta R.T. -0.011 min  
Lab File: BG056597.D  
Acq: 9 Feb 2023 14:47

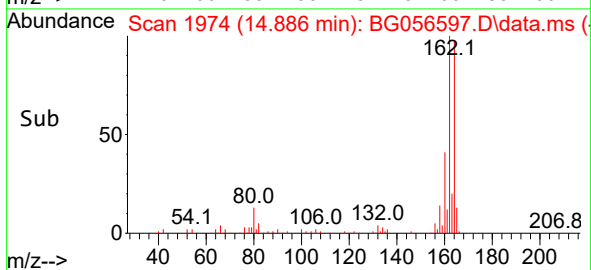
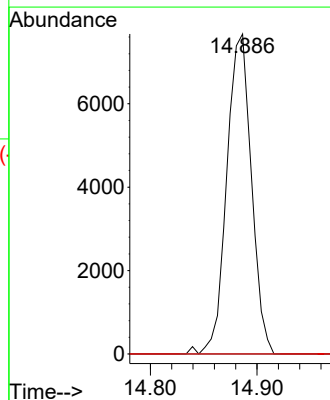
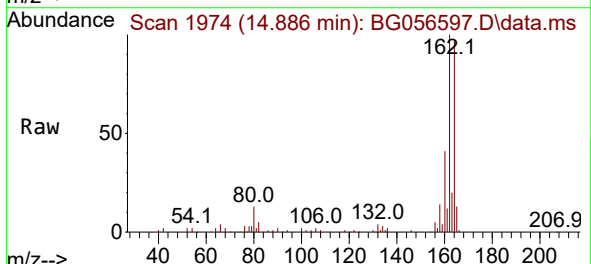
Instrument :  
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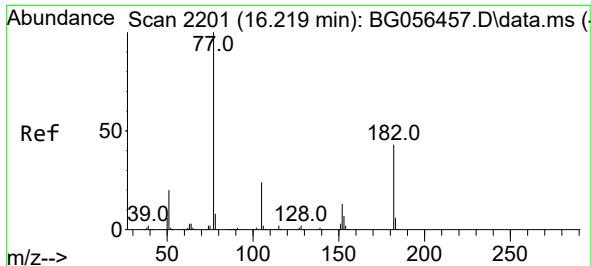
Tgt Ion:172 Resp: 439843  
Ion Ratio Lower Upper  
172 100  
171 37.2 29.5 44.3  
170 23.5 19.2 28.8



#51  
2,6-Dinitrotoluene  
Concen: 7.455 ng  
RT: 14.886 min Scan# 1974  
Delta R.T. 0.424 min  
Lab File: BG056597.D  
Acq: 9 Feb 2023 14:47

Tgt Ion:165 Resp: 12327  
Ion Ratio Lower Upper  
165 100  
63 0.0 26.9 40.3#  
89 0.0 35.6 53.4#

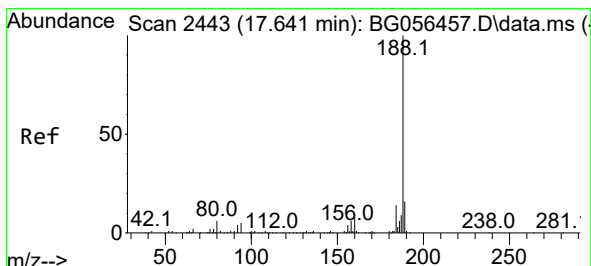
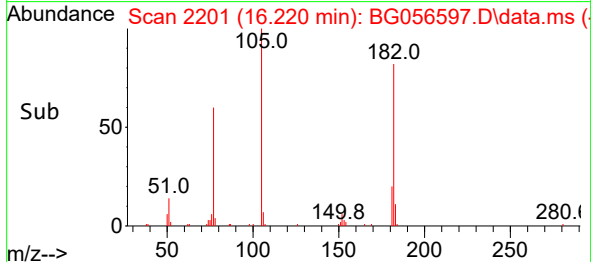
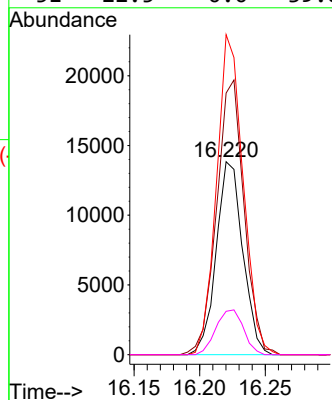
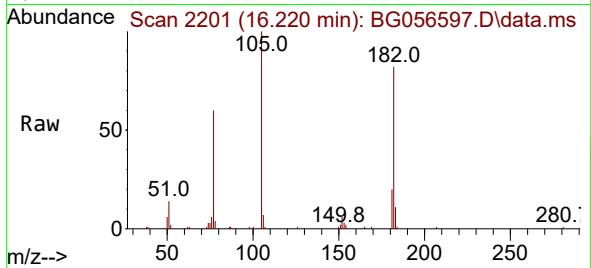




#63  
Azobenzene  
Concen: 3.970 ng  
RT: 16.220 min Scan# 21  
Delta R.T. 0.013 min  
Lab File: BG056597.D  
Acq: 9 Feb 2023 14:47

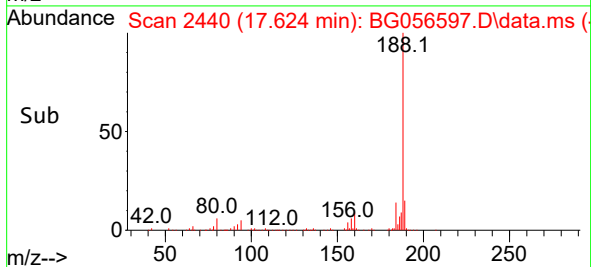
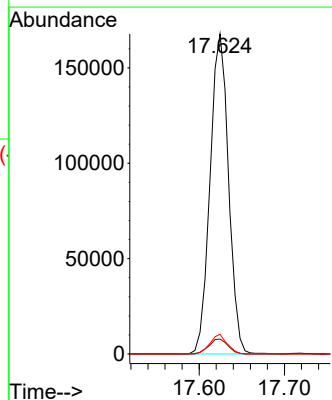
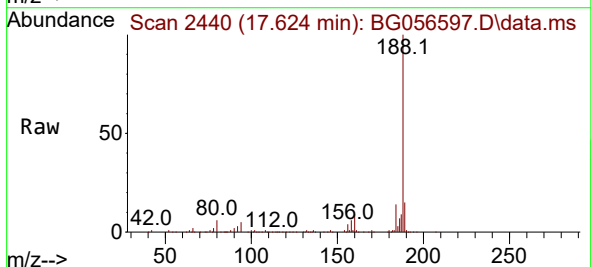
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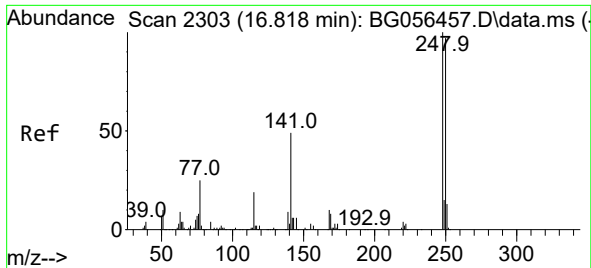
Tgt Ion: 77 Resp: 19448  
Ion Ratio Lower Upper  
77 100  
182 135.6 23.1 63.1#  
105 165.9 4.2 44.2#  
51 22.5 0.0 39.8



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.624 min Scan# 2440  
Delta R.T. -0.005 min  
Lab File: BG056597.D  
Acq: 9 Feb 2023 14:47

Tgt Ion:188 Resp: 252570  
Ion Ratio Lower Upper  
188 100  
94 4.6 4.1 6.1  
80 6.1 5.0 7.4

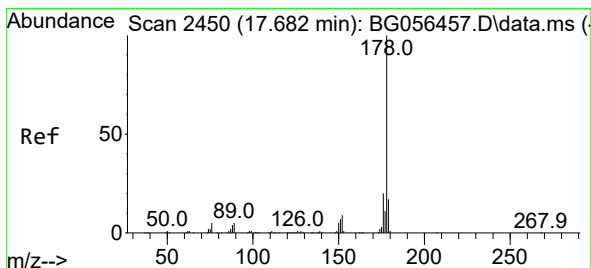
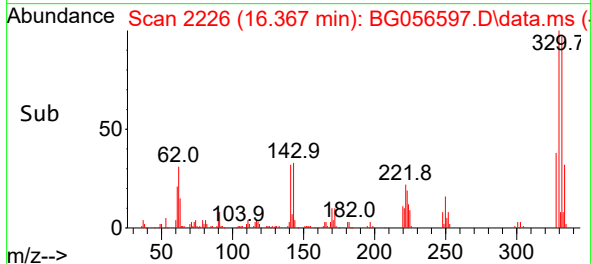
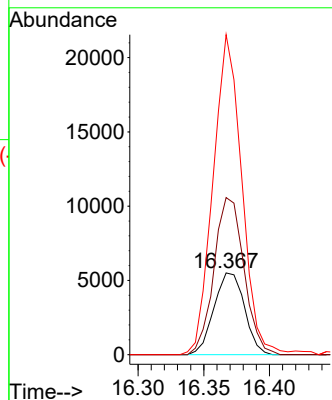
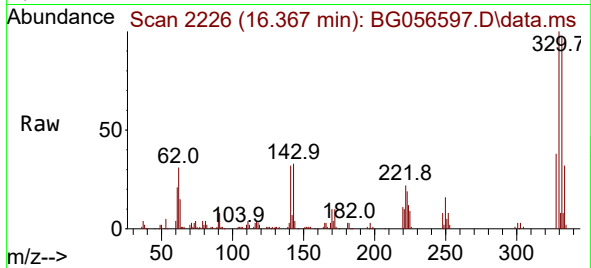




#67  
4-Bromophenyl-phenylether  
Concen: 2.751 ng  
RT: 16.367 min Scan# 21  
Delta R.T. -0.439 min  
Lab File: BG056597.D  
Acq: 9 Feb 2023 14:47

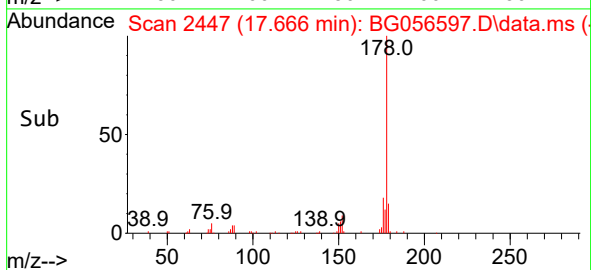
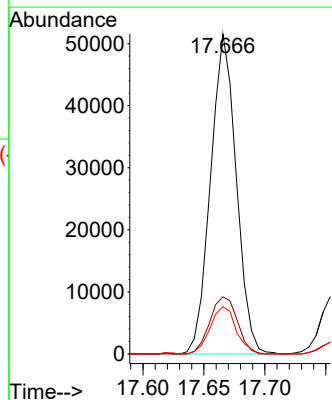
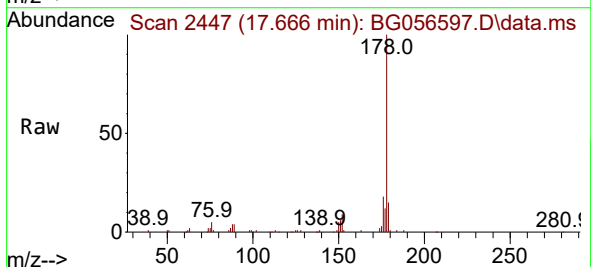
Instrument :  
BNA\_G  
ClientSampleId :  
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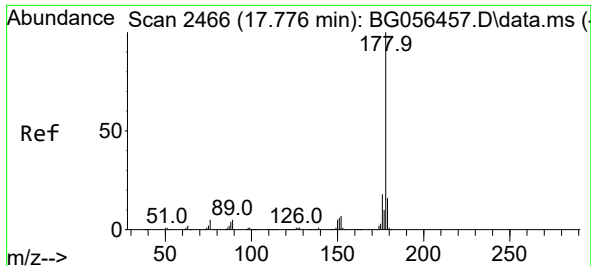
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Ion Ratio Lower Upper  
248 100  
250 192.4 77.6 116.4#  
141 391.7 39.0 58.4#



#71  
Phenanthrene  
Concen: 5.716 ng  
RT: 17.666 min Scan# 2447  
Delta R.T. -0.005 min  
Lab File: BG056597.D  
Acq: 9 Feb 2023 14:47

Tgt Ion:178 Resp: 75558  
Ion Ratio Lower Upper  
178 100  
176 17.8 15.6 23.4  
179 14.7 13.3 19.9

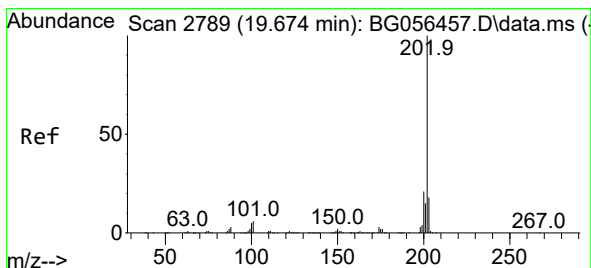
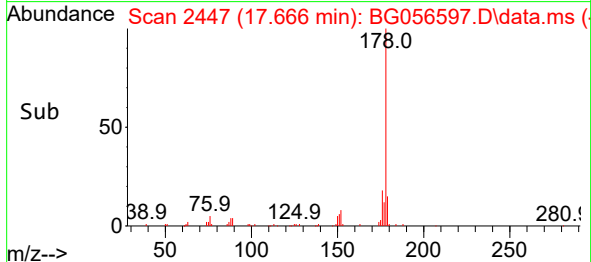
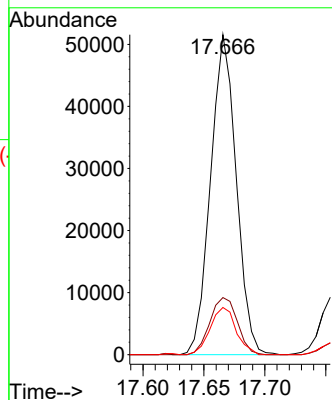
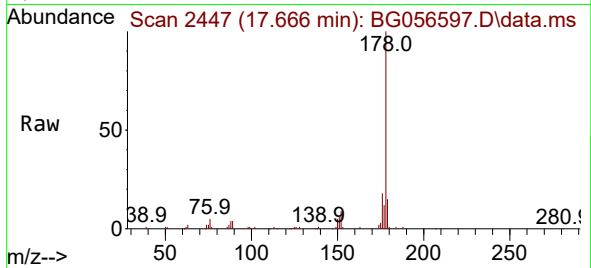




#72  
 Anthracene  
 Concen: 5.568 ng  
 RT: 17.666 min Scan# 2466  
 Delta R.T. -0.099 min  
 Lab File: BG056597.D  
 Acq: 9 Feb 2023 14:47

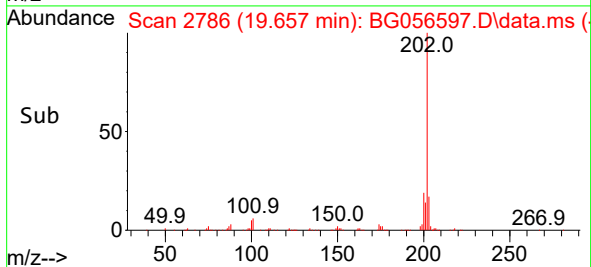
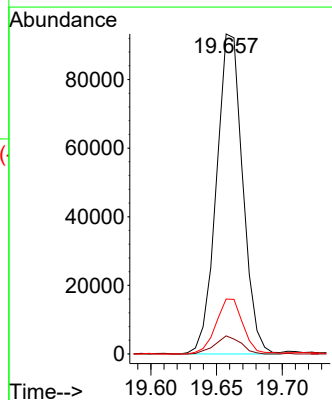
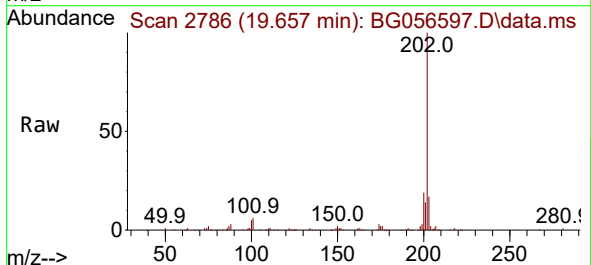
Instrument :  
 BNA\_G  
 ClientSampleId :  
 CV-1

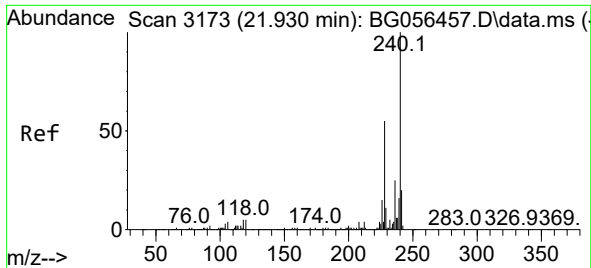
Tgt Ion:178 Resp: 75558  
 Ion Ratio Lower Upper  
 178 100  
 176 17.8 14.5 21.7  
 179 14.7 12.5 18.7



#75  
 Fluoranthene  
 Concen: 7.783 ng  
 RT: 19.657 min Scan# 2786  
 Delta R.T. -0.011 min  
 Lab File: BG056597.D  
 Acq: 9 Feb 2023 14:47

Tgt Ion:202 Resp: 129851  
 Ion Ratio Lower Upper  
 202 100  
 101 5.6 0.0 25.6  
 203 17.2 0.0 38.1

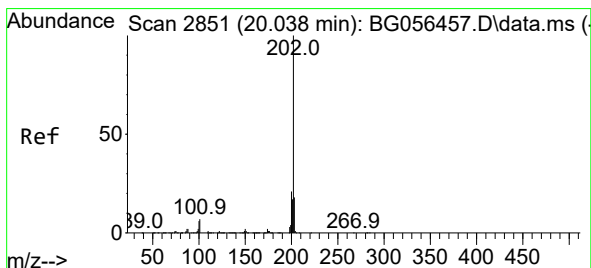
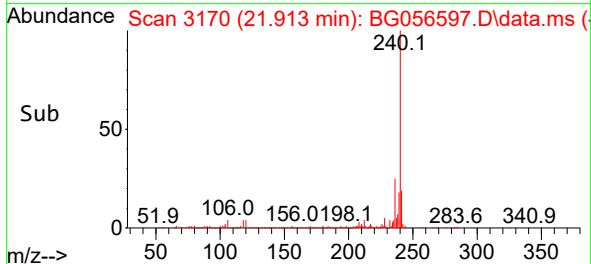
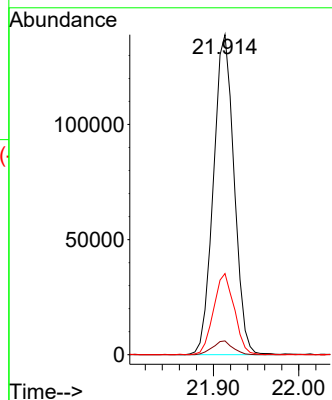
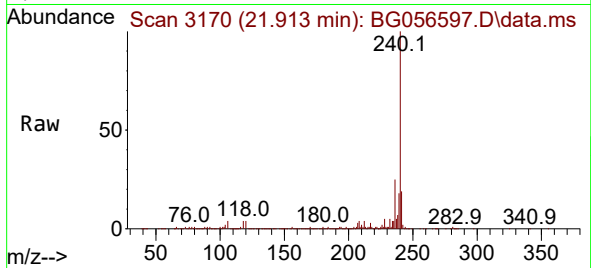




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.913 min Scan# 31  
Delta R.T. -0.011 min  
Lab File: BG056597.D  
Acq: 9 Feb 2023 14:47

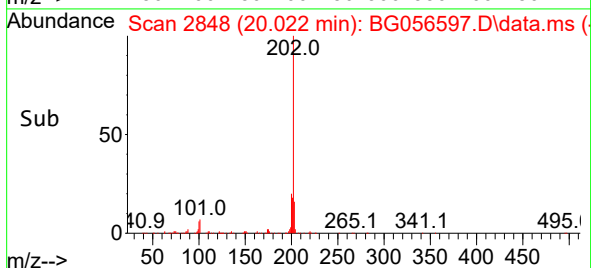
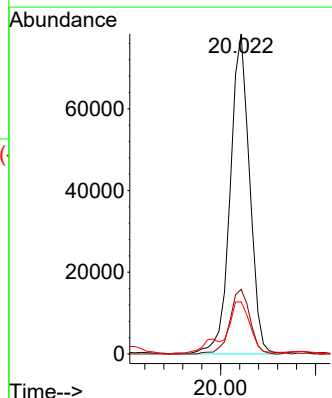
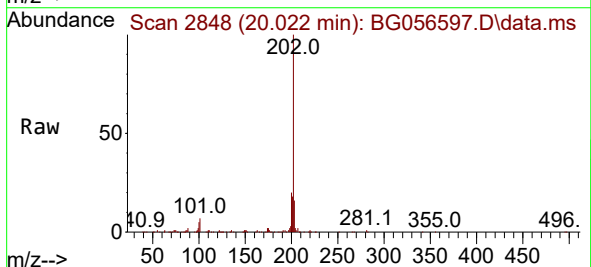
Instrument :  
BNA\_G  
ClientSampleId :  
CV-1

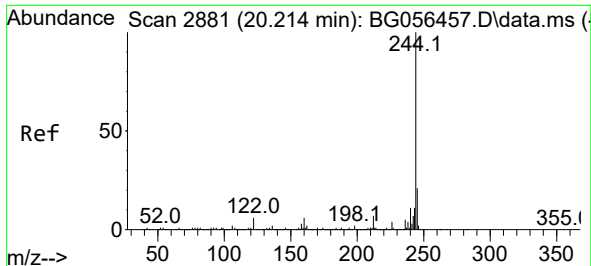
Tgt Ion:240 Resp: 233988  
Ion Ratio Lower Upper  
240 100  
120 4.3 3.8 5.8  
236 25.4 20.2 30.2



#78  
Pyrene  
Concen: 6.669 ng  
RT: 20.022 min Scan# 2848  
Delta R.T. -0.005 min  
Lab File: BG056597.D  
Acq: 9 Feb 2023 14:47

Tgt Ion:202 Resp: 110986  
Ion Ratio Lower Upper  
202 100  
200 20.2 16.7 25.1  
203 16.3 14.4 21.6

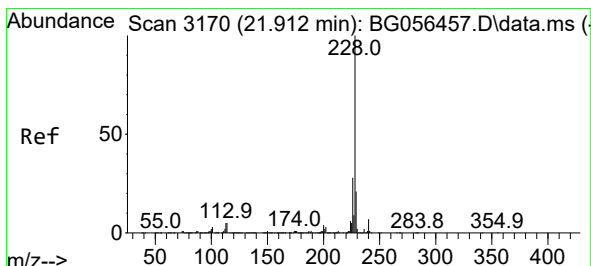
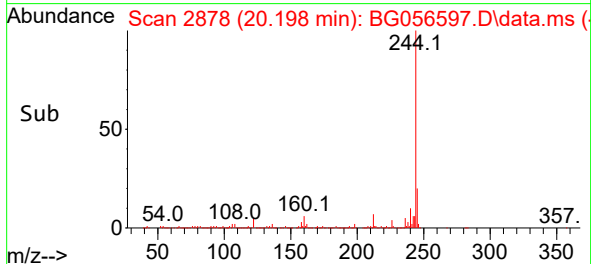
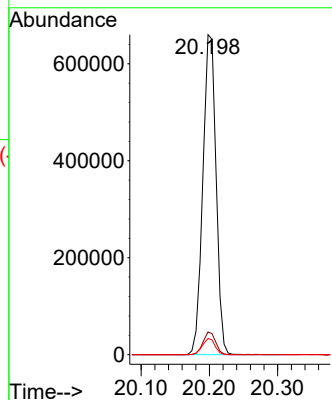
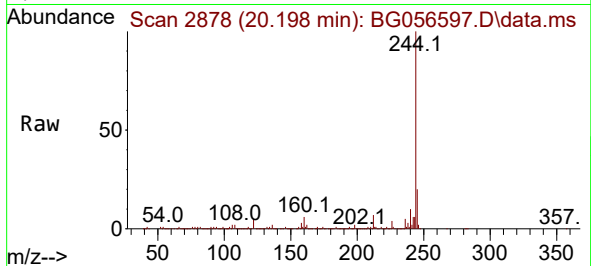




#79  
 Terphenyl-d14  
 Concen: 66.868 ng  
 RT: 20.198 min Scan# 21  
 Delta R.T. -0.011 min  
 Lab File: BG056597.D  
 Acq: 9 Feb 2023 14:47

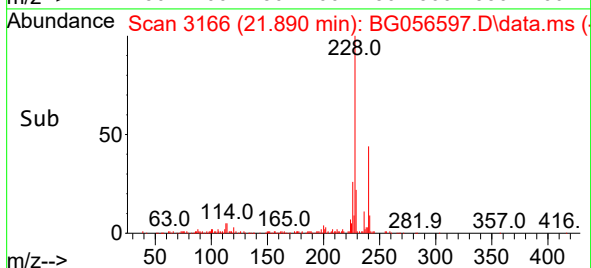
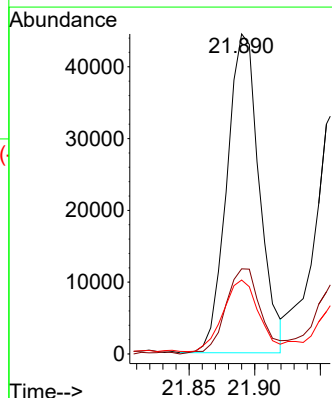
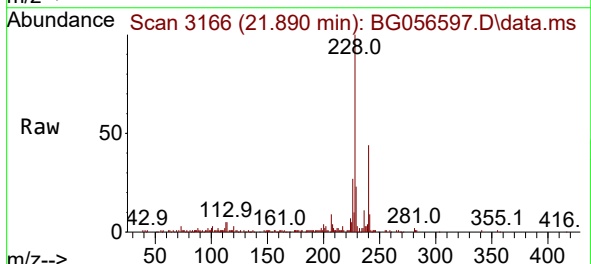
Instrument :  
 BNA\_G  
 ClientSampleId :  
 CV-1

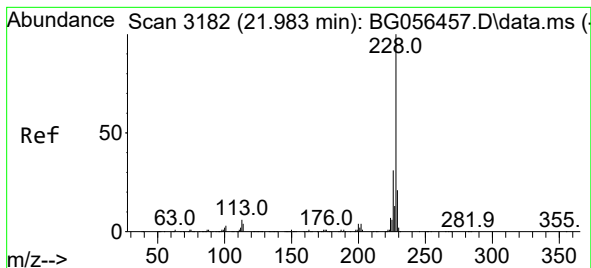
Tgt Ion:244 Resp: 890830  
 Ion Ratio Lower Upper  
 244 100  
 212 7.1 5.5 8.3  
 122 5.1 4.4 6.6



#81  
 Benzo(a)anthracene  
 Concen: 4.680 ng  
 RT: 21.890 min Scan# 3166  
 Delta R.T. -0.011 min  
 Lab File: BG056597.D  
 Acq: 9 Feb 2023 14:47

Tgt Ion:228 Resp: 76555  
 Ion Ratio Lower Upper  
 228 100  
 226 26.6 22.4 33.6  
 229 23.1 16.5 24.7





#83

Chrysene

Concen: 4.052 ng

RT: 21.961 min Scan# 31

Delta R.T. -0.011 min

Lab File: BG056597.D

Acq: 9 Feb 2023 14:47

Instrument :

BNA\_G

ClientSampleId :

CV-1

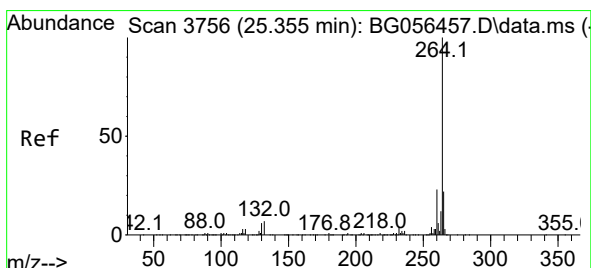
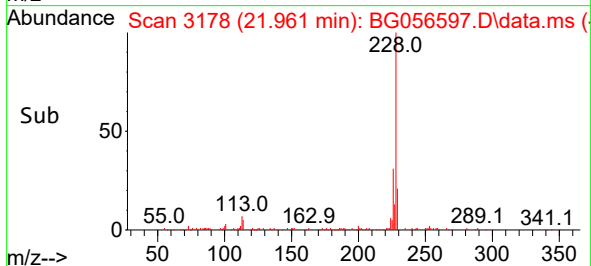
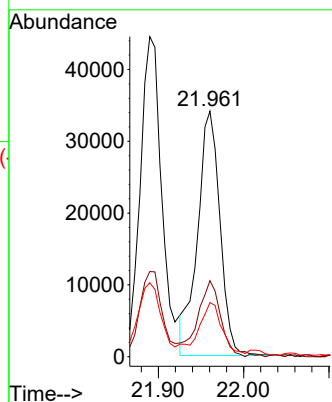
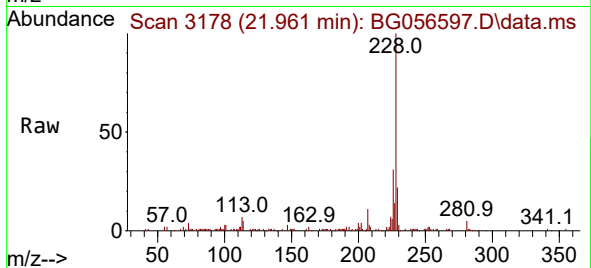
Tgt Ion:228 Resp: 62276

Ion Ratio Lower Upper

228 100

226 31.0 25.0 37.4

229 22.0 16.4 24.6



#86

Perylene-d12

Concen: 20.000 ng

RT: 25.333 min Scan# 3752

Delta R.T. -0.005 min

Lab File: BG056597.D

Acq: 9 Feb 2023 14:47

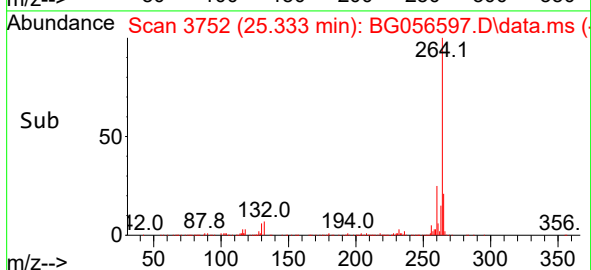
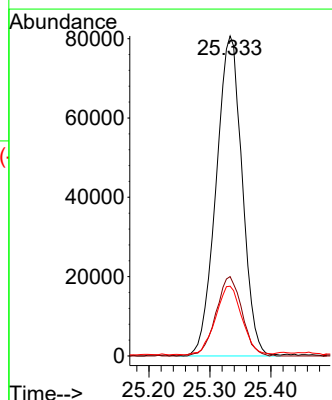
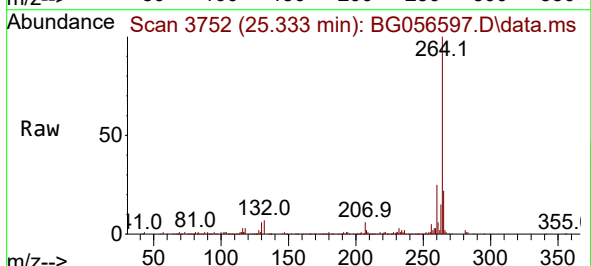
Tgt Ion:264 Resp: 238787

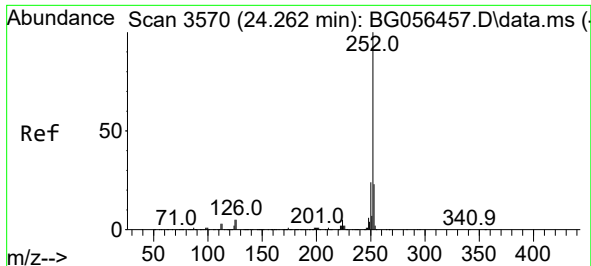
Ion Ratio Lower Upper

264 100

260 24.8 18.2 27.4

265 21.8 18.1 27.1

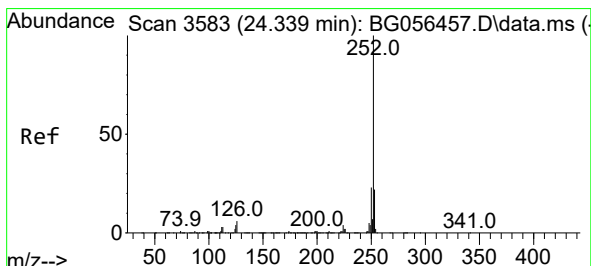
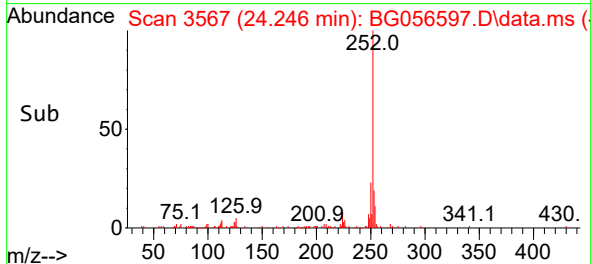
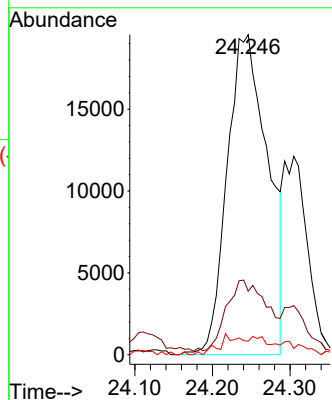
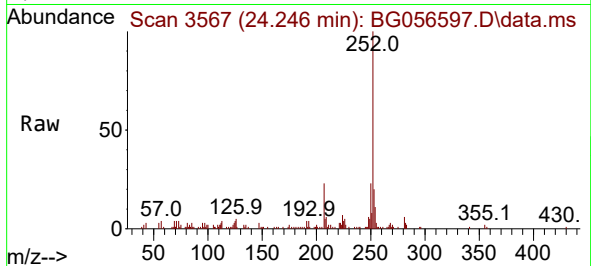




#88  
Benzo(b)fluoranthene  
Concen: 4.802 ng  
RT: 24.246 min Scan# 3567  
Delta R.T. -0.005 min  
Lab File: BG056597.D  
Acq: 9 Feb 2023 14:47

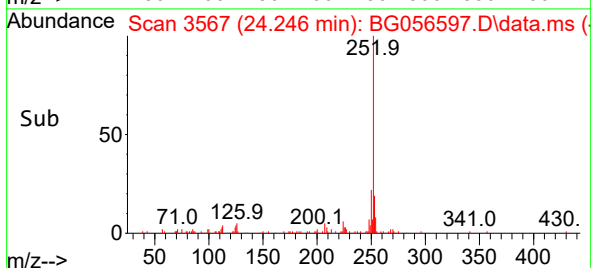
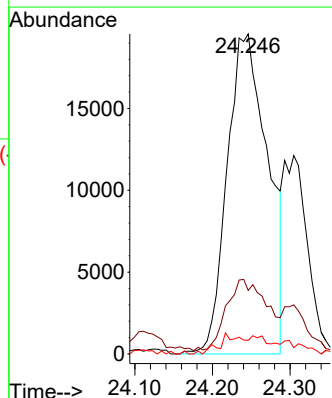
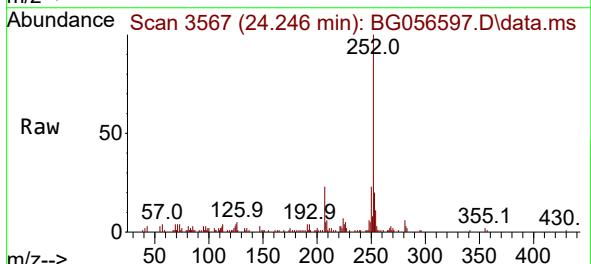
Instrument :  
BNA\_G  
ClientSampleId :  
CV-1

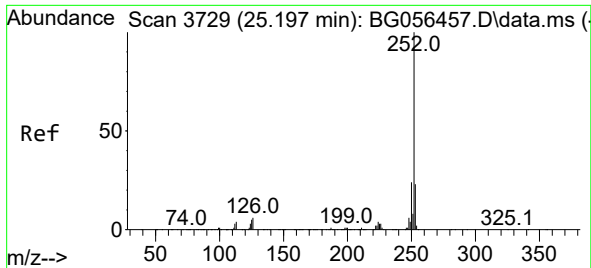
Tgt Ion:252 Resp: 71169  
Ion Ratio Lower Upper  
252 100  
253 19.8 18.1 27.1  
125 4.3 3.9 5.9



#89  
Benzo(k)fluoranthene  
Concen: 4.756 ng  
RT: 24.246 min Scan# 3567  
Delta R.T. -0.075 min  
Lab File: BG056597.D  
Acq: 9 Feb 2023 14:47

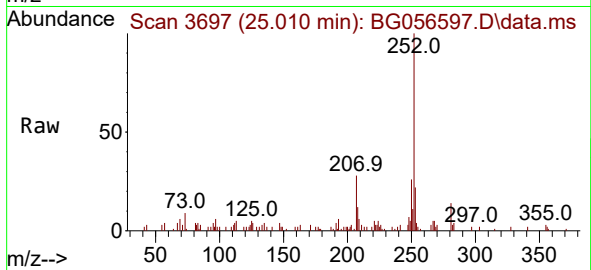
Tgt Ion:252 Resp: 71169  
Ion Ratio Lower Upper  
252 100  
253 19.8 17.5 26.3  
125 4.3 3.4 5.0





#90  
 Benzo(a)pyrene  
 Concen: 2.173 ng  
 RT: 25.010 min Scan# 30  
 Delta R.T. -0.169 min  
 Lab File: BG056597.D  
 Acq: 9 Feb 2023 14:47

Instrument :  
 BNA\_G  
 ClientSampleId :  
 CV-1



Tgt Ion:252 Resp: 31723  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 21.6  | 18.4  | 27.6  |
| 125 | 5.5   | 4.1   | 6.1   |

