

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG121522\  
 Data File : BG055979.D  
 Acq On : 15 Dec 2022 16:25  
 Operator : CG/JU  
 Sample : N6057-06  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 1522

Quant Time: Dec 16 04:03:55 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG121322.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 14 02:24:06 2022  
 Response via : Initial Calibration

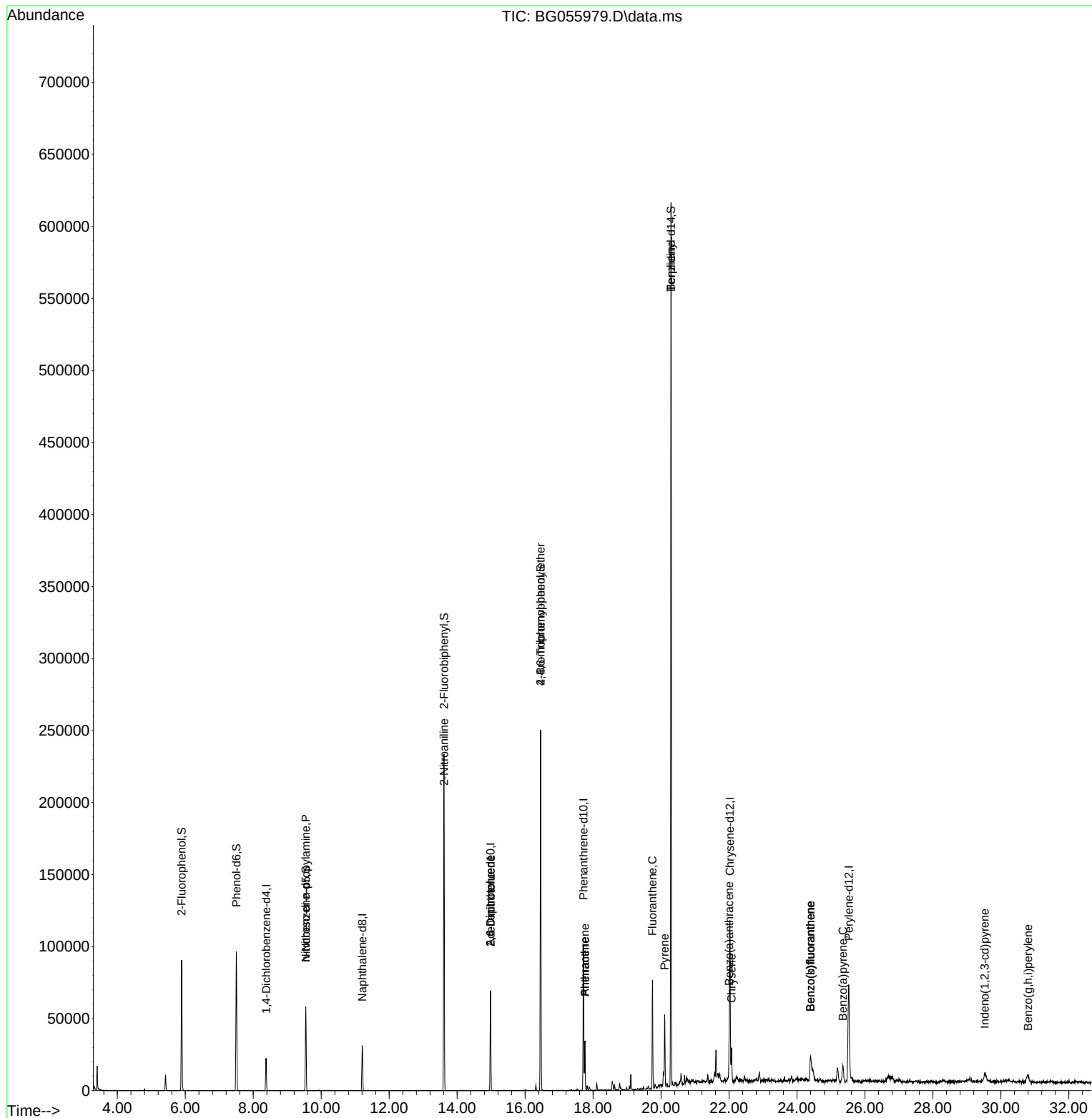
| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.376  | 152  | 7343     | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 11.208 | 136  | 28803    | 20.000  | ng    | # 0.00   |
| 39) Acenaphthene-d10          | 14.980 | 164  | 27002    | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.712 | 188  | 76057    | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 22.025 | 240  | 78106    | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 25.521 | 264  | 93066    | 20.000  | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.891  | 112  | 37879    | 120.976 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.501  | 99   | 47169    | 117.131 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.545  | 82   | 30613    | 74.274  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.455 | 330  | 67349    | 103.439 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.611 | 172  | 127013   | 65.971  | ng    | 0.00     |
| 79) Terphenyl-d14             | 20.292 | 244  | 322240   | 72.917  | ng    | 0.00     |
| Target Compounds              |        |      |          |         |       |          |
| 19) n-Nitroso-di-n-propyla... | 9.545  | 70   | 4352     | 15.077  | ng    | # 67     |
| 48) 2-Nitroaniline            | 13.617 | 65   | 56       | 2.994   | ng    | # 1      |
| 51) 2,6-Dinitrotoluene        | 14.980 | 165  | 3476     | 9.622   | ng    | # 25     |
| 57) 2,4-Dinitrotoluene        | 14.980 | 165  | 3476     | 6.374   | ng    | # 35     |
| 67) 4-Bromophenyl-phenylether | 16.455 | 248  | 3747     | 3.362   | ng    | # 1      |
| 71) Phenanthrene              | 17.759 | 178  | 26189    | 6.571   | ng    | 98       |
| 72) Anthracene                | 17.759 | 178  | 26189    | 6.641   | ng    | 97       |
| 75) Fluoranthene              | 19.745 | 202  | 54383    | 9.744   | ng    | 99       |
| 77) Benzidine                 | 20.292 | 184  | 5139     | 3.747   | ng    | # 95     |
| 78) Pyrene                    | 20.104 | 202  | 38113    | 8.064   | ng    | 99       |
| 81) Benzo(a)anthracene        | 22.001 | 228  | 12788    | 2.327   | ng    | 98       |
| 83) Chrysene                  | 22.072 | 228  | 22607    | 4.389   | ng    | 96       |
| 87) Indeno(1,2,3-cd)pyrene    | 29.522 | 276  | 15241    | 2.037   | ng    | # 97     |
| 88) Benzo(b)fluoranthene      | 24.399 | 252  | 30269    | 5.025   | ng    | 99       |
| 89) Benzo(k)fluoranthene      | 24.399 | 252  | 30269    | 5.037   | ng    | 99       |
| 90) Benzo(a)pyrene            | 25.350 | 252  | 16865    | 3.313   | ng    | # 98     |
| 92) Benzo(g,h,i)perylene      | 30.797 | 276  | 14215    | 2.347   | ng    | # 98     |

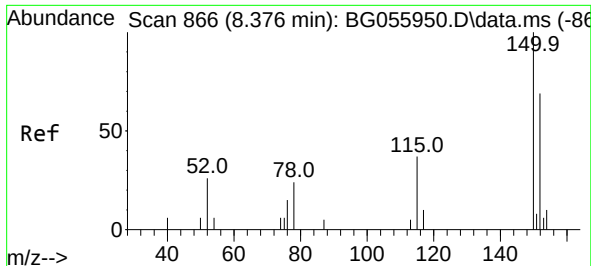
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG121522\  
Data File : BG055979.D  
Acq On : 15 Dec 2022 16:25  
Operator : CG/JU  
Sample : N6057-06  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_G  
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1522

Quant Time: Dec 16 04:03:55 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG121322.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Dec 14 02:24:06 2022  
Response via : Initial Calibration

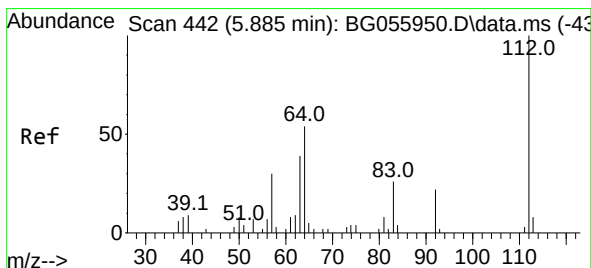
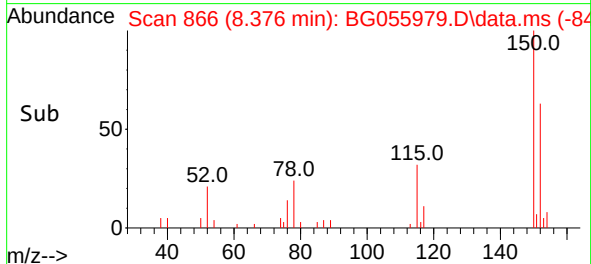
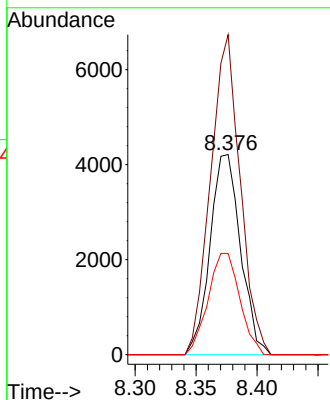
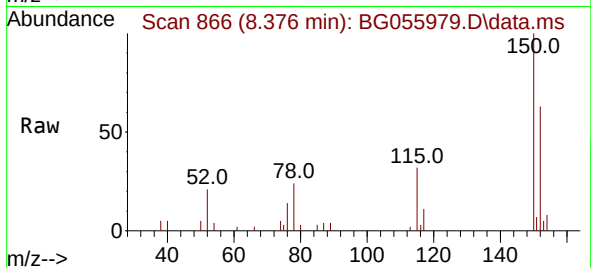




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.376 min Scan# 80  
Delta R.T. 0.000 min  
Lab File: BG055979.D  
Acq: 15 Dec 2022 16:25

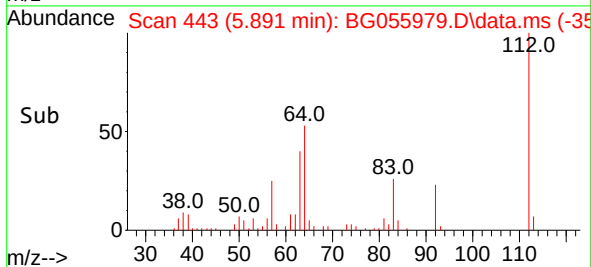
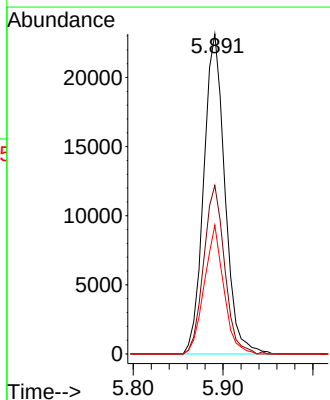
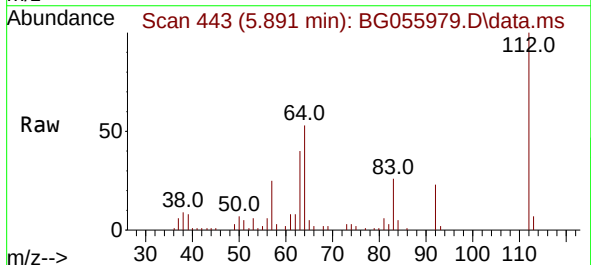
Instrument :  
BNA\_G  
ClientSampleId :  
1522

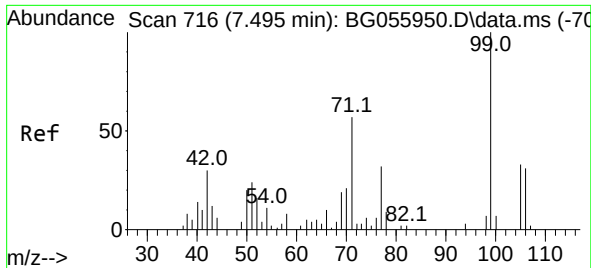
Tgt Ion:152 Resp: 7343  
Ion Ratio Lower Upper  
152 100  
150 159.9 115.7 173.5  
115 50.6 43.0 64.4



#5  
2-Fluorophenol  
Concen: 120.976 ng  
RT: 5.891 min Scan# 443  
Delta R.T. 0.006 min  
Lab File: BG055979.D  
Acq: 15 Dec 2022 16:25

Tgt Ion:112 Resp: 37879  
Ion Ratio Lower Upper  
112 100  
64 52.7 43.0 64.4  
63 40.2 31.4 47.2

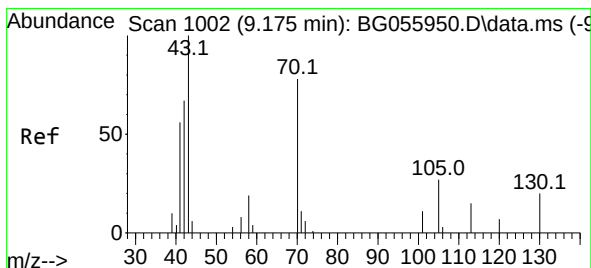
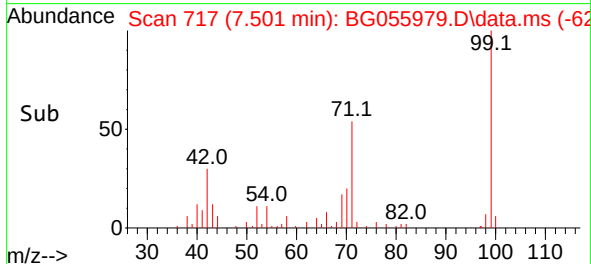
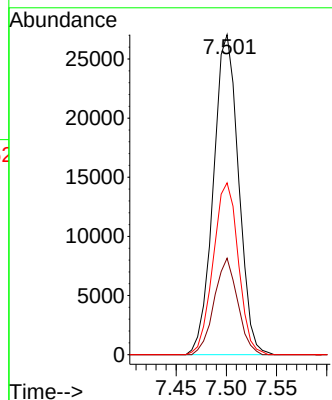
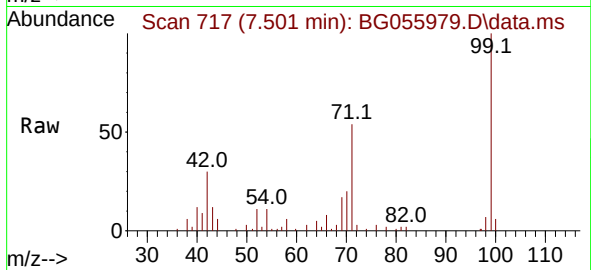




#7  
Phenol-d6  
Concen: 117.131 ng  
RT: 7.501 min Scan# 716  
Delta R.T. 0.006 min  
Lab File: BG055979.D  
Acq: 15 Dec 2022 16:25

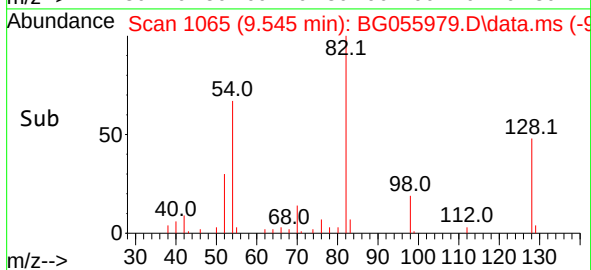
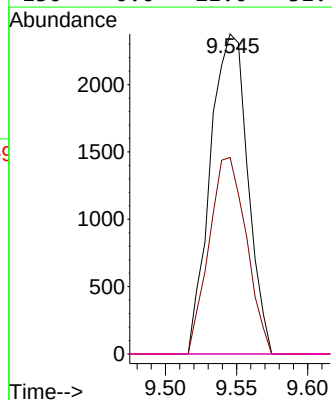
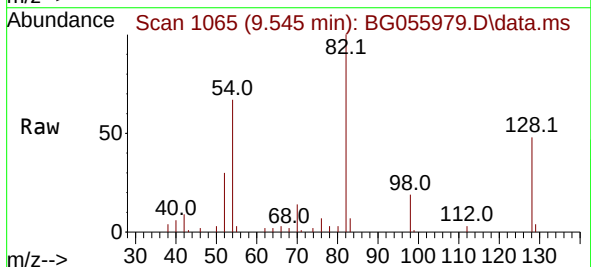
Instrument :  
BNA\_G  
ClientSampleId :  
1522

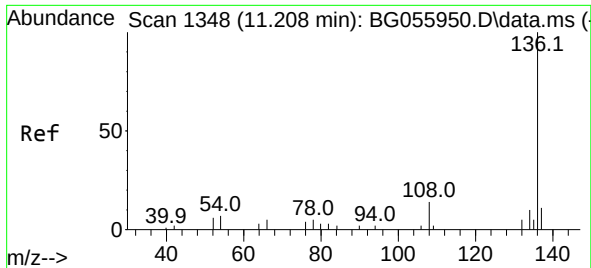
Tgt Ion: 99 Resp: 47169  
Ion Ratio Lower Upper  
99 100  
42 30.2 24.3 36.5  
71 53.7 45.6 68.4



#19  
n-Nitroso-di-n-propylamine  
Concen: 15.077 ng  
RT: 9.545 min Scan# 1065  
Delta R.T. 0.370 min  
Lab File: BG055979.D  
Acq: 15 Dec 2022 16:25

Tgt Ion: 70 Resp: 4352  
Ion Ratio Lower Upper  
70 100  
42 61.4 69.0 103.4#  
101 0.0 11.8 17.8#  
130 0.0 21.0 31.4#

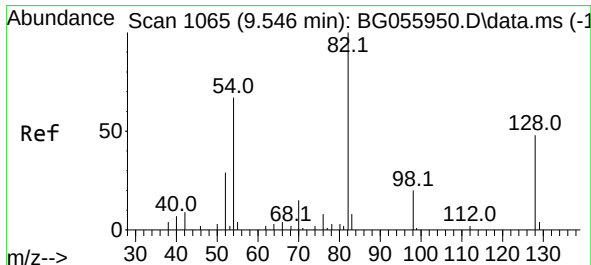
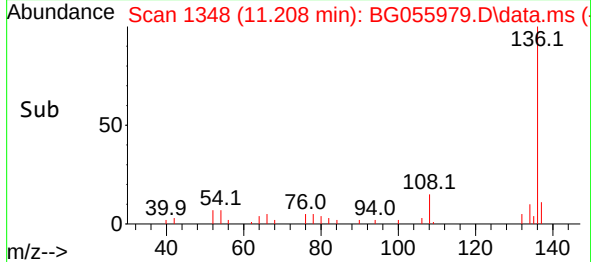
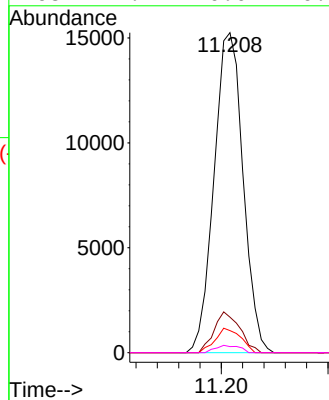
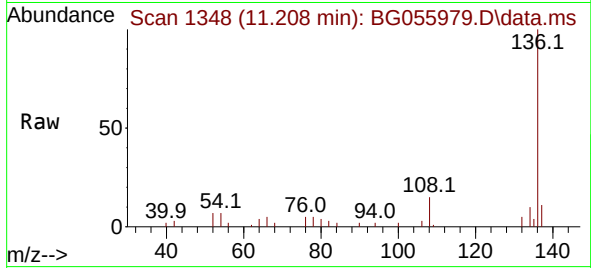




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.208 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BG055979.D  
Acq: 15 Dec 2022 16:25

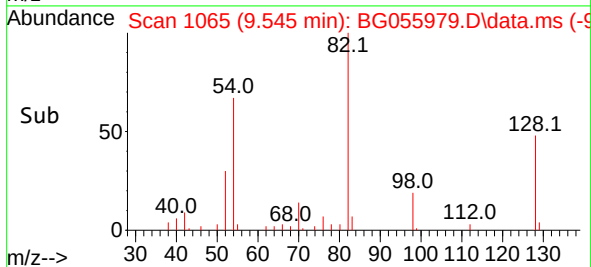
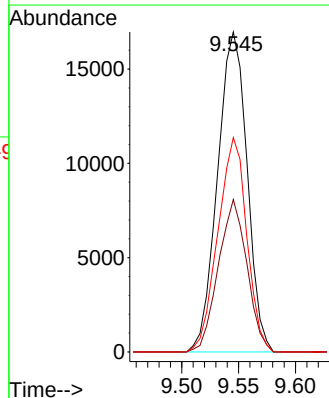
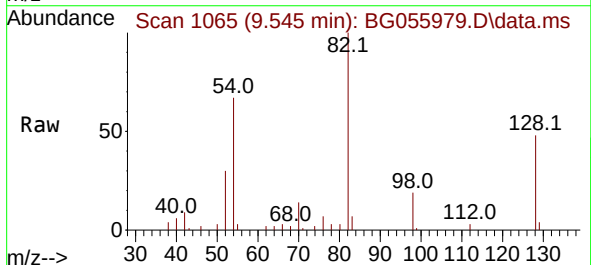
Instrument :  
BNA\_G  
ClientSampleId :  
1522

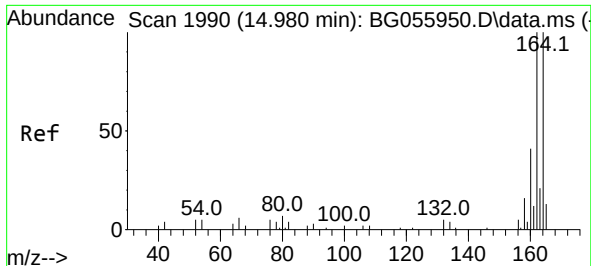
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 28803 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.1  | 9.2   | 13.8  |
| 54       | 6.9   | 5.6   | 8.4   |
| 68       | 1.9   | 0.0   | 0.0   |



#23  
Nitrobenzene-d5  
Concen: 74.274 ng  
RT: 9.545 min Scan# 1065  
Delta R.T. -0.000 min  
Lab File: BG055979.D  
Acq: 15 Dec 2022 16:25

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 30613 |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 47.6  | 38.4  | 57.6  |
| 54       | 67.0  | 53.3  | 79.9  |

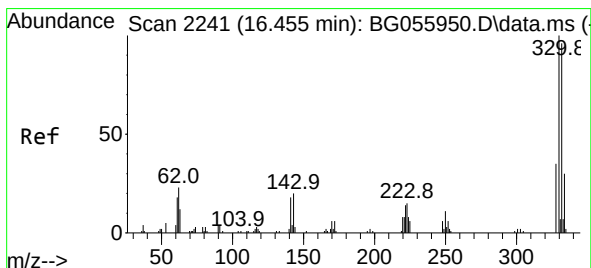
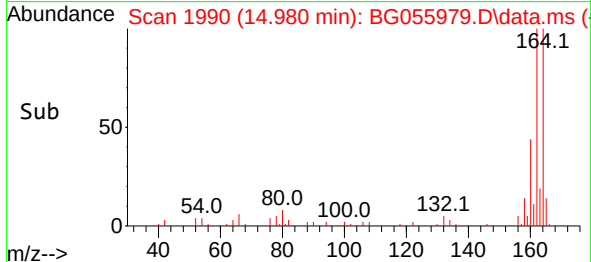
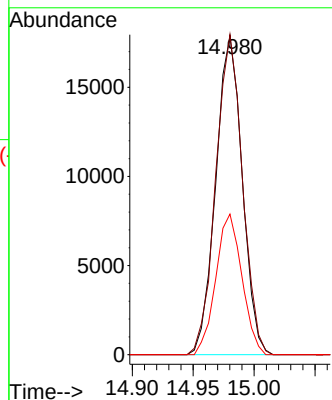
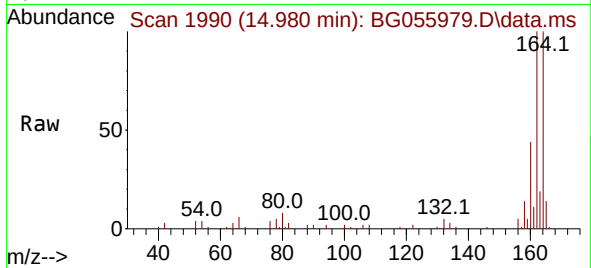




#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.980 min Scan# 1990  
Delta R.T. -0.000 min  
Lab File: BG055979.D  
Acq: 15 Dec 2022 16:25

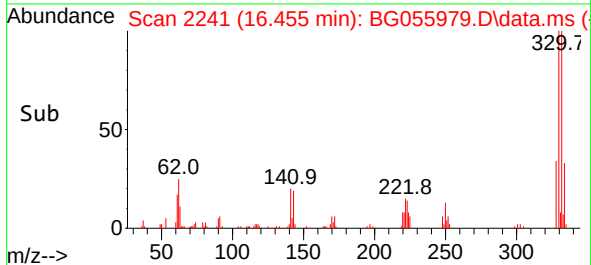
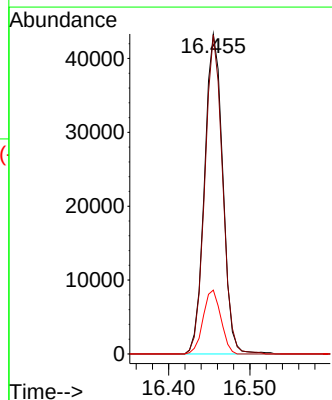
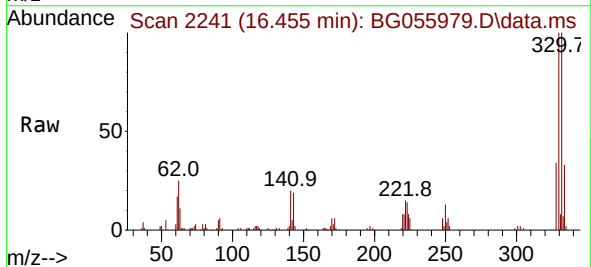
Instrument :  
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ClientSampleId :  
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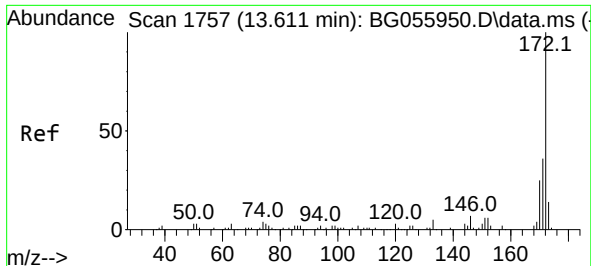
Tgt Ion:164 Resp: 27002  
Ion Ratio Lower Upper  
164 100  
162 100.4 79.8 119.8  
160 44.1 33.0 49.4



#42  
2,4,6-Tribromophenol  
Concen: 103.439 ng  
RT: 16.455 min Scan# 2241  
Delta R.T. -0.000 min  
Lab File: BG055979.D  
Acq: 15 Dec 2022 16:25

Tgt Ion:330 Resp: 67349  
Ion Ratio Lower Upper  
330 100  
332 96.9 76.6 114.8  
141 19.3 15.0 22.4

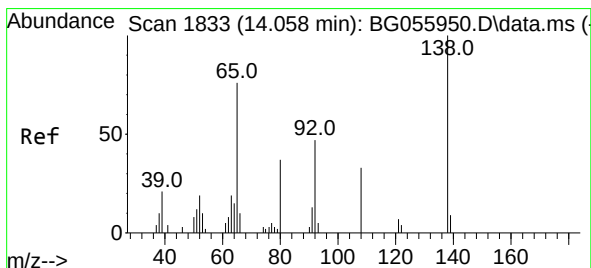
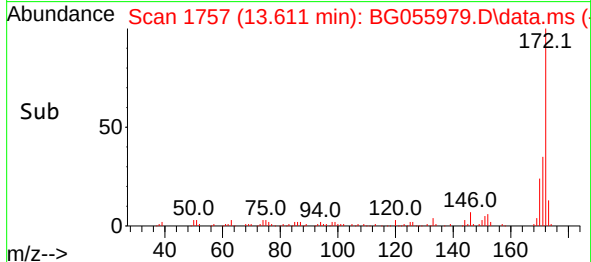
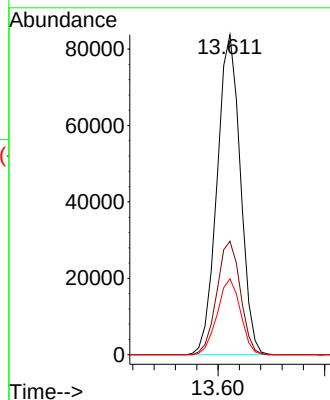
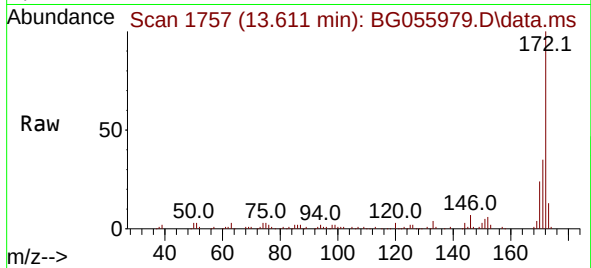




#45  
2-Fluorobiphenyl  
Concen: 65.971 ng  
RT: 13.611 min Scan# 1757  
Delta R.T. -0.000 min  
Lab File: BG055979.D  
Acq: 15 Dec 2022 16:25

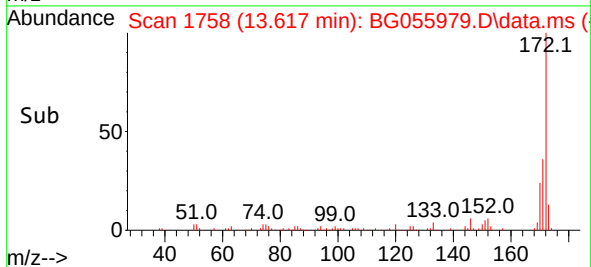
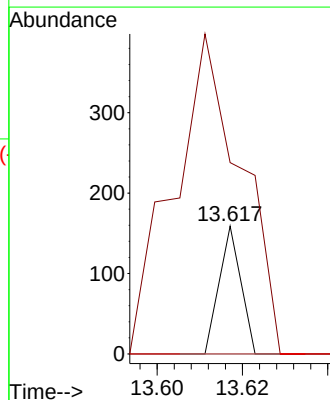
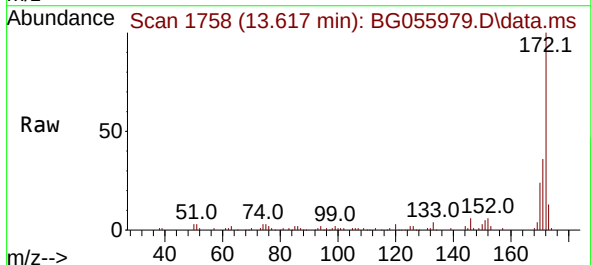
Instrument :  
BNA\_G  
ClientSampleId :  
1522

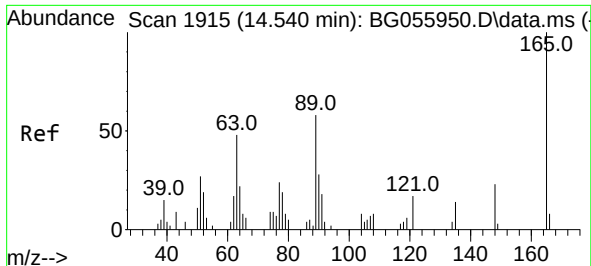
Tgt Ion:172 Resp: 127013  
Ion Ratio Lower Upper  
172 100  
171 35.5 28.6 42.8  
170 23.7 19.9 29.9



#48  
2-Nitroaniline  
Concen: 2.994 ng  
RT: 13.617 min Scan# 1758  
Delta R.T. -0.441 min  
Lab File: BG055979.D  
Acq: 15 Dec 2022 16:25

Tgt Ion: 65 Resp: 56  
Ion Ratio Lower Upper  
65 100  
92 149.7 49.7 74.5#  
138 0.0 105.0 157.6#

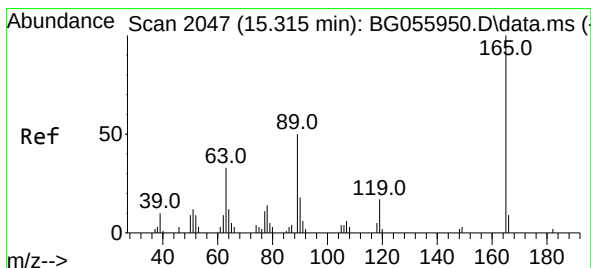
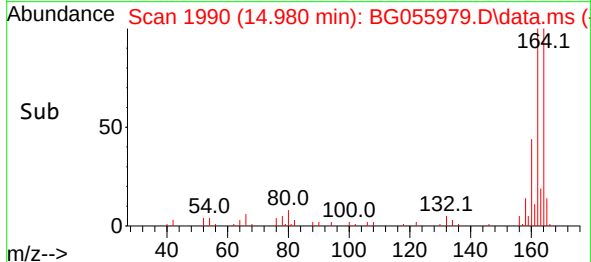
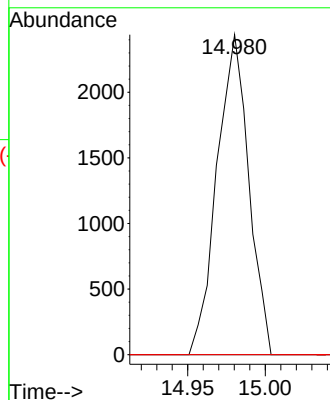
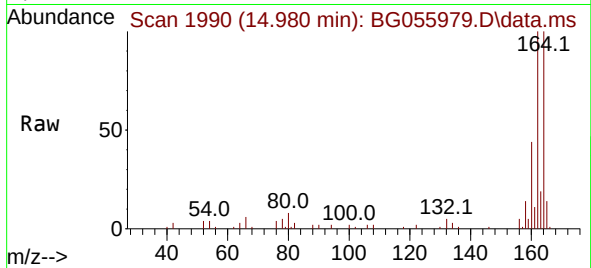




#51  
2,6-Dinitrotoluene  
Concen: 9.622 ng  
RT: 14.980 min Scan# 1915  
Delta R.T. 0.440 min  
Lab File: BG055979.D  
Acq: 15 Dec 2022 16:25

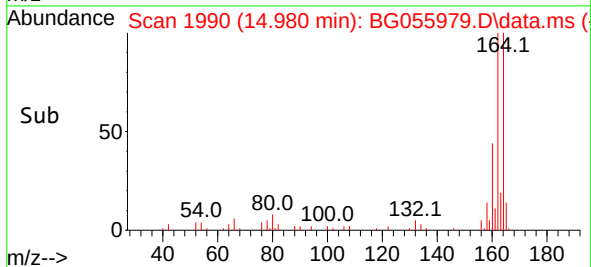
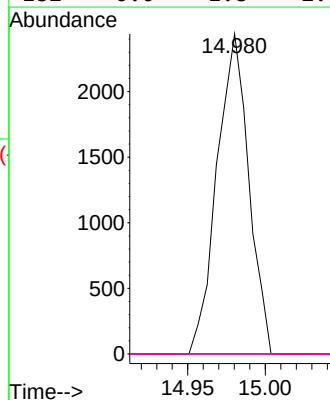
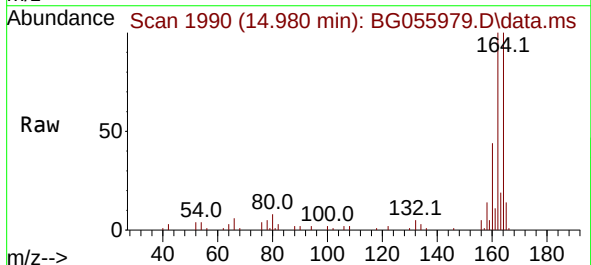
Instrument :  
BNA\_G  
ClientSampleId :  
1522

Tgt Ion:165 Resp: 3476  
Ion Ratio Lower Upper  
165 100  
63 0.0 38.3 57.5#  
89 0.0 46.3 69.5#

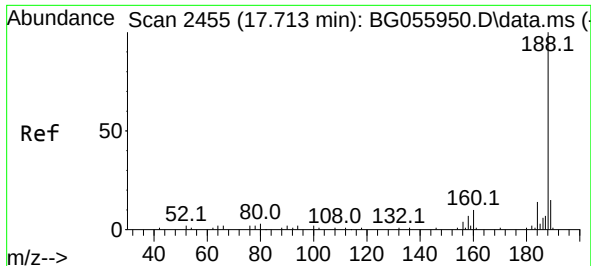


#57  
2,4-Dinitrotoluene  
Concen: 6.374 ng  
RT: 14.980 min Scan# 1990  
Delta R.T. -0.335 min  
Lab File: BG055979.D  
Acq: 15 Dec 2022 16:25

Tgt Ion:165 Resp: 3476  
Ion Ratio Lower Upper  
165 100  
63 0.0 26.6 39.8#  
89 0.0 40.1 60.1#  
182 0.0 1.8 2.6#



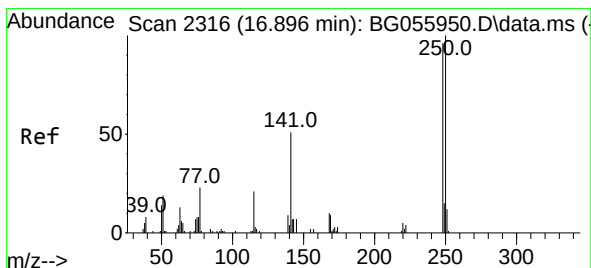
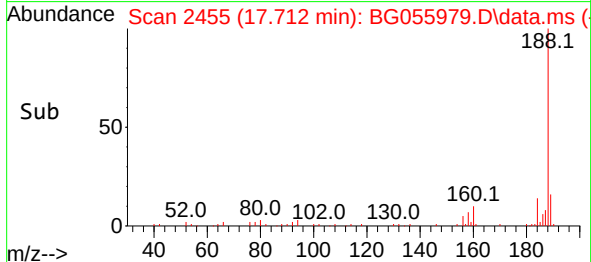
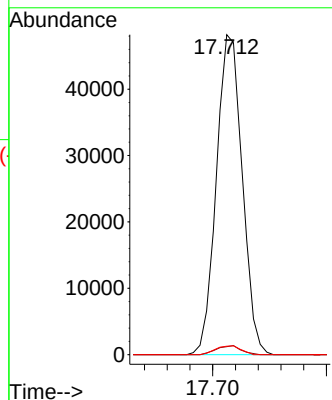
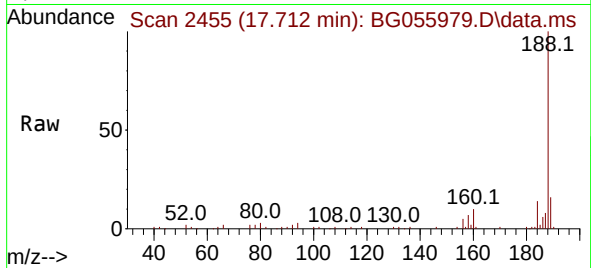




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.712 min Scan# 24  
Delta R.T. -0.000 min  
Lab File: BG055979.D  
Acq: 15 Dec 2022 16:25

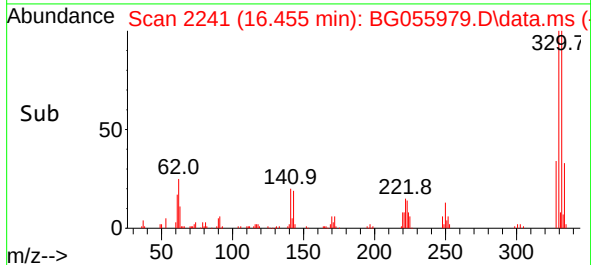
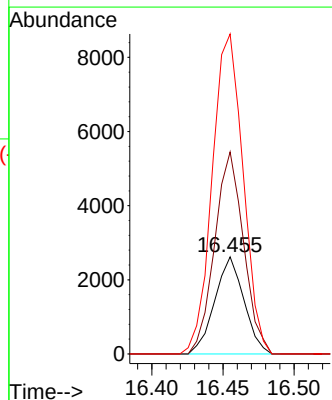
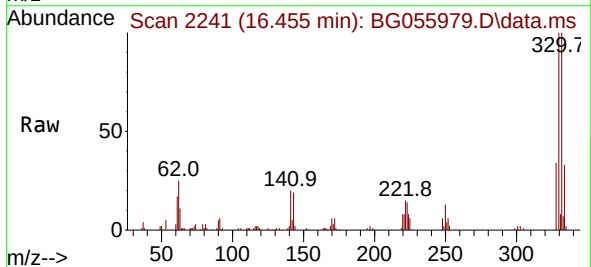
Instrument :  
BNA\_G  
ClientSampleId :  
1522

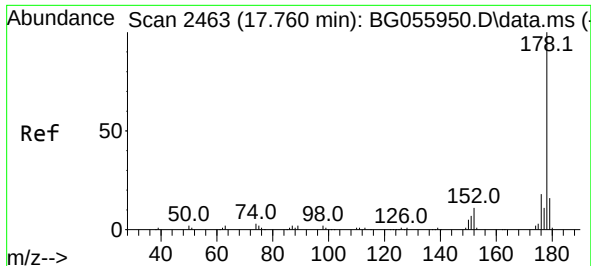
Tgt Ion:188 Resp: 76057  
Ion Ratio Lower Upper  
188 100  
94 2.5 1.8 2.8  
80 2.6 2.4 3.6



#67  
4-Bromophenyl-phenylether  
Concen: 3.362 ng  
RT: 16.455 min Scan# 2241  
Delta R.T. -0.441 min  
Lab File: BG055979.D  
Acq: 15 Dec 2022 16:25

Tgt Ion:248 Resp: 3747  
Ion Ratio Lower Upper  
248 100  
250 208.1 83.0 124.6#  
141 329.5 42.6 64.0#



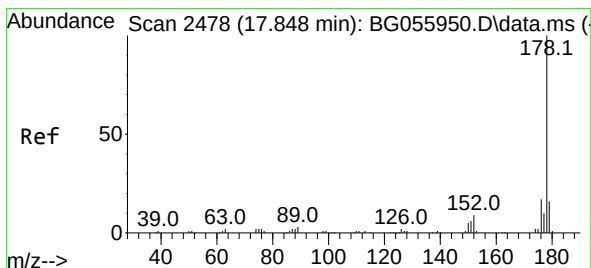
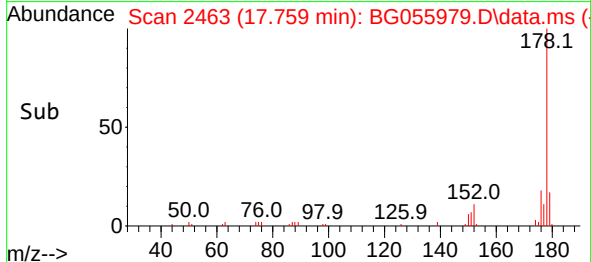
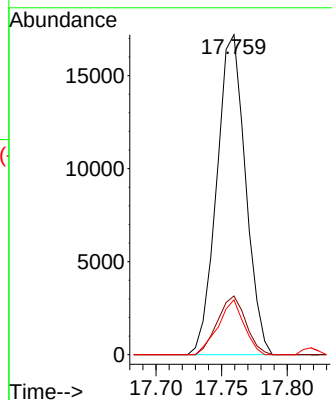
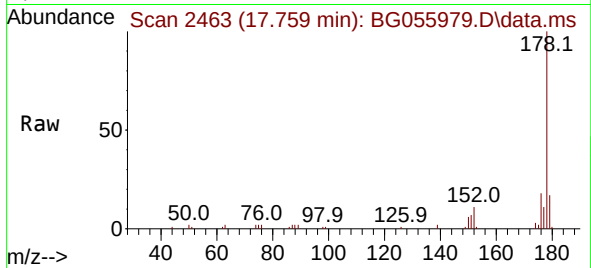


#71  
Phenanthrene

Concen: 6.571 ng  
RT: 17.759 min Scan# 2463  
Delta R.T. -0.000 min  
Lab File: BG055979.D  
Acq: 15 Dec 2022 16:25

Instrument :  
BNA\_G  
ClientSampleId :  
1522

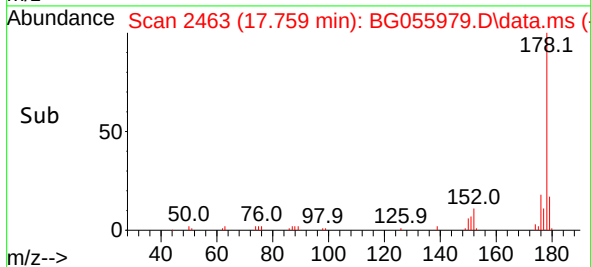
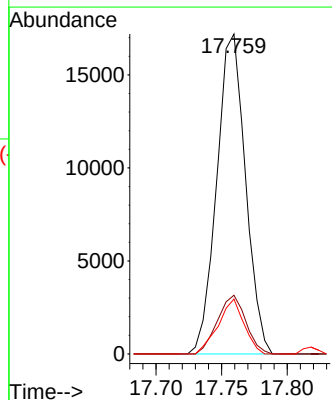
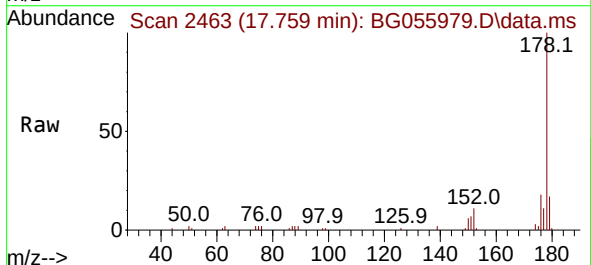
Tgt Ion:178 Resp: 26189  
Ion Ratio Lower Upper  
178 100  
176 18.3 14.4 21.6  
179 17.1 12.7 19.1

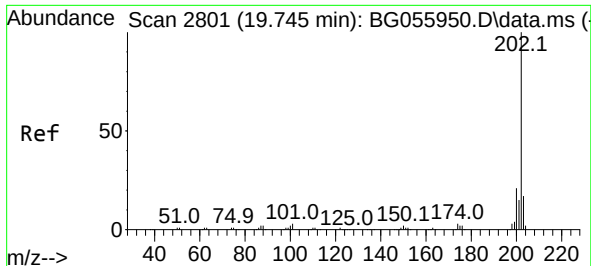


#72

Anthracene  
Concen: 6.641 ng  
RT: 17.759 min Scan# 2463  
Delta R.T. -0.088 min  
Lab File: BG055979.D  
Acq: 15 Dec 2022 16:25

Tgt Ion:178 Resp: 26189  
Ion Ratio Lower Upper  
178 100  
176 18.3 13.9 20.9  
179 17.1 12.7 19.1

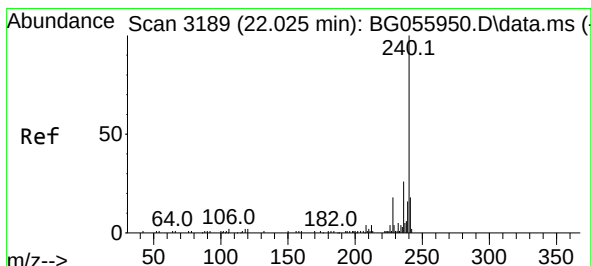
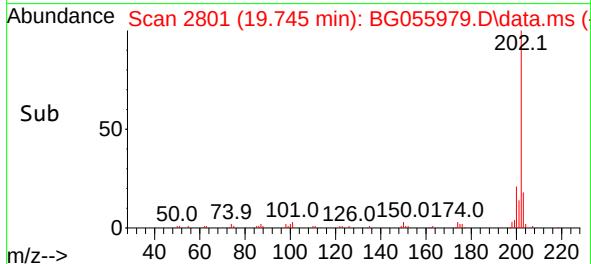
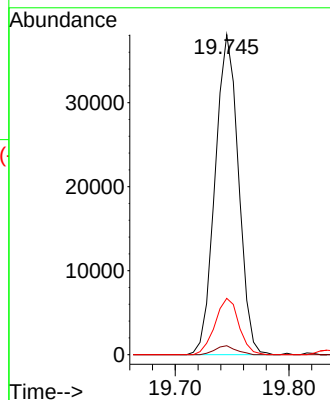
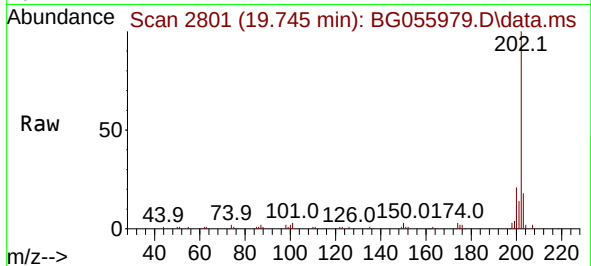




#75  
Fluoranthene  
Concen: 9.744 ng  
RT: 19.745 min Scan# 2801  
Delta R.T. -0.000 min  
Lab File: BG055979.D  
Acq: 15 Dec 2022 16:25

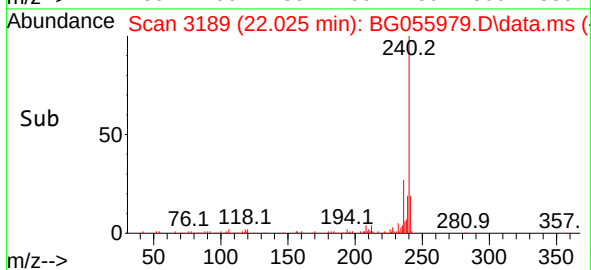
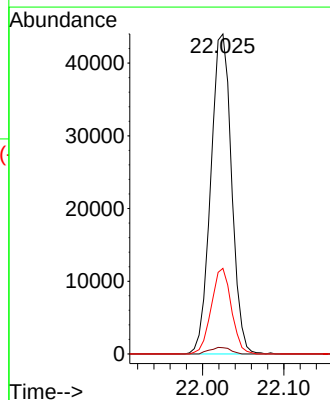
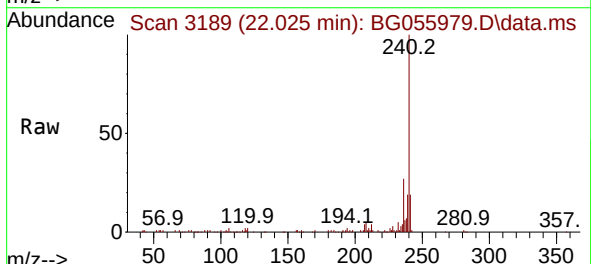
Instrument :  
BNA\_G  
ClientSampleId :  
1522

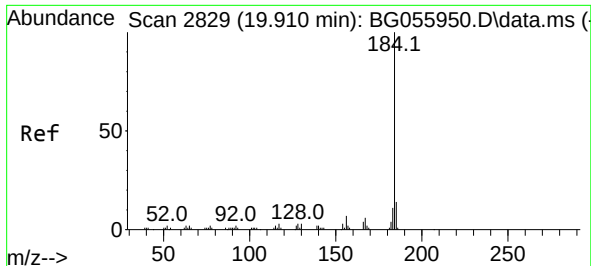
Tgt Ion:202 Resp: 54383  
Ion Ratio Lower Upper  
202 100  
101 2.8 0.0 22.6  
203 17.6 0.0 37.1



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 22.025 min Scan# 3189  
Delta R.T. -0.000 min  
Lab File: BG055979.D  
Acq: 15 Dec 2022 16:25

Tgt Ion:240 Resp: 78106  
Ion Ratio Lower Upper  
240 100  
120 2.0 1.7 2.5  
236 26.7 21.1 31.7

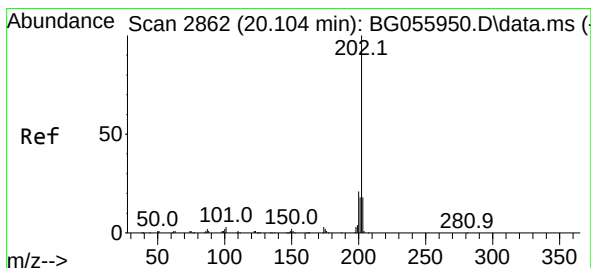
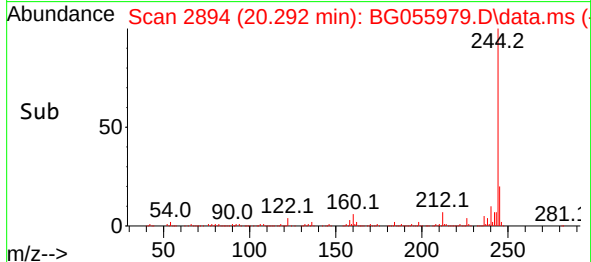
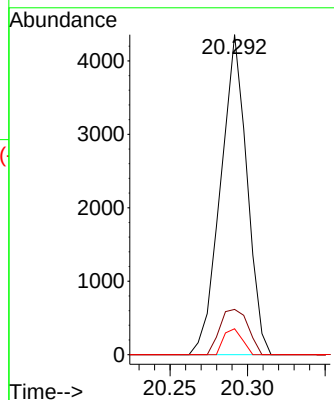
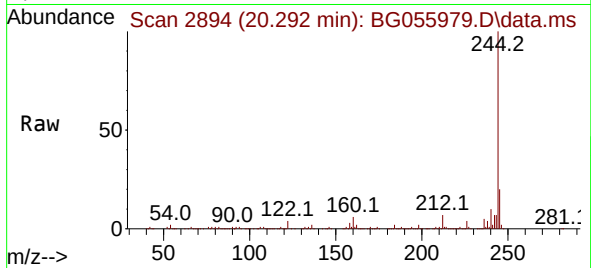




#77  
Benzidine  
Concen: 3.747 ng  
RT: 20.292 min Scan# 21  
Delta R.T. 0.382 min  
Lab File: BG055979.D  
Acq: 15 Dec 2022 16:25

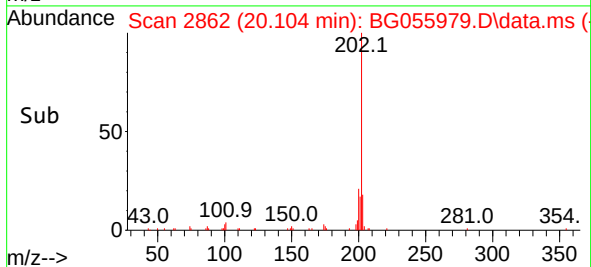
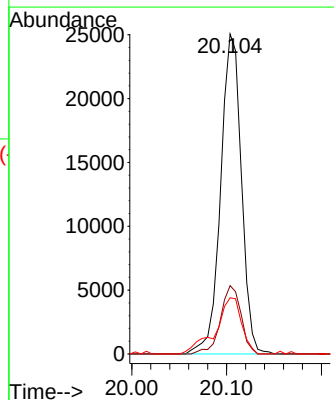
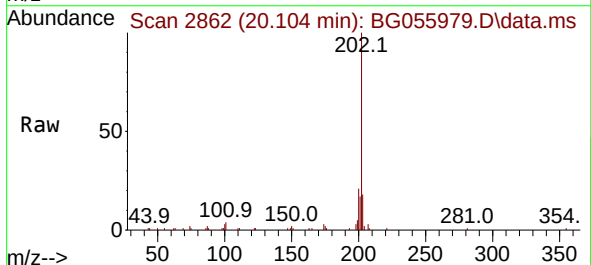
Instrument :  
BNA\_G  
ClientSampleId :  
1522

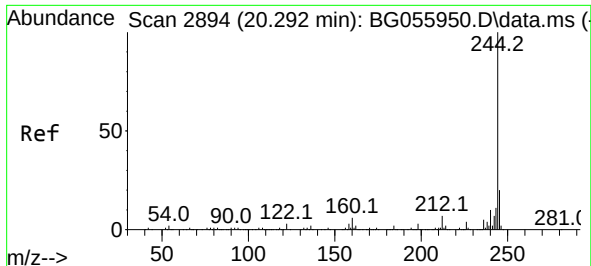
Tgt Ion:184 Resp: 5139  
Ion Ratio Lower Upper  
184 100  
185 14.2 10.9 16.3  
183 8.1 9.2 13.8#



#78  
Pyrene  
Concen: 8.064 ng  
RT: 20.104 min Scan# 2862  
Delta R.T. -0.000 min  
Lab File: BG055979.D  
Acq: 15 Dec 2022 16:25

Tgt Ion:202 Resp: 38113  
Ion Ratio Lower Upper  
202 100  
200 21.3 16.7 25.1  
203 17.6 14.6 21.8

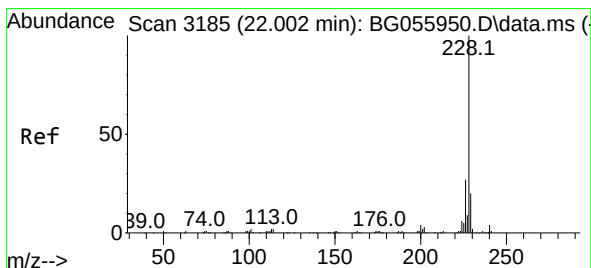
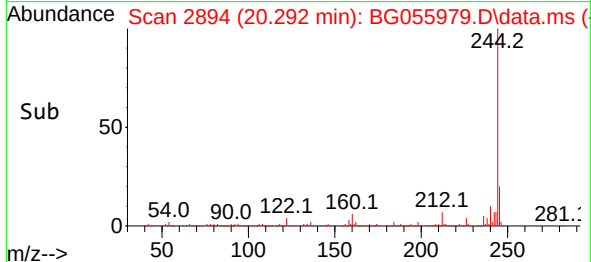
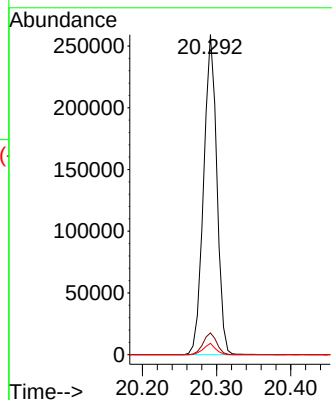
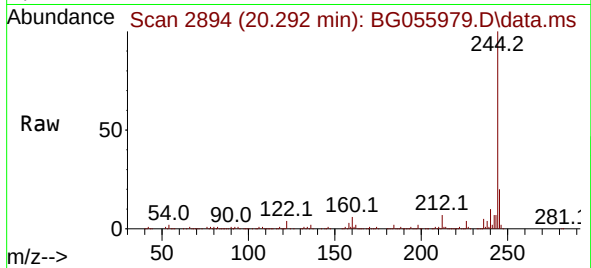




#79  
 Terphenyl-d14  
 Concen: 72.917 ng  
 RT: 20.292 min Scan# 21  
 Delta R.T. -0.000 min  
 Lab File: BG055979.D  
 Acq: 15 Dec 2022 16:25

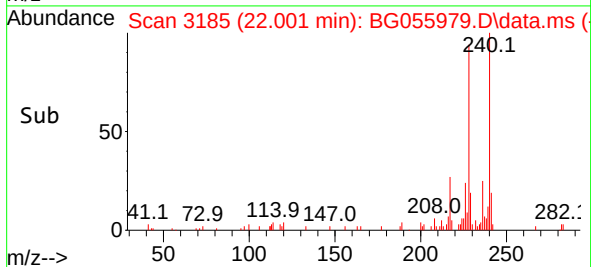
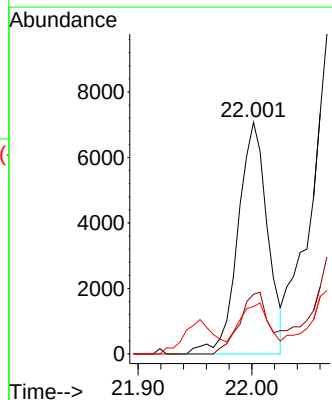
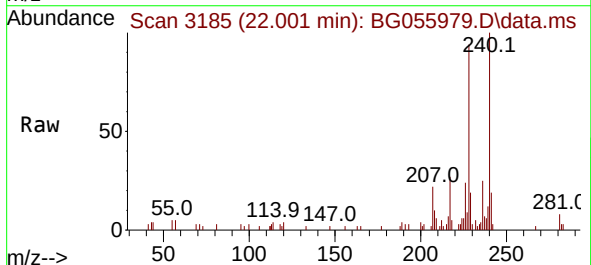
Instrument :  
 BNA\_G  
 ClientSampleId :  
 1522

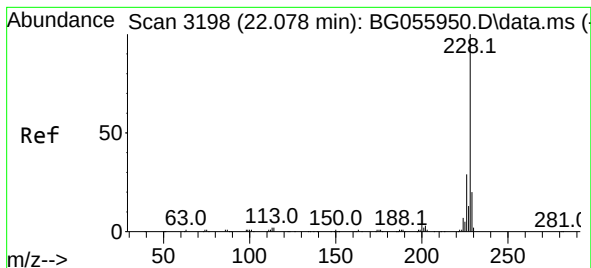
Tgt Ion:244 Resp: 322240  
 Ion Ratio Lower Upper  
 244 100  
 212 6.8 5.8 8.6  
 122 3.6 2.5 3.7



#81  
 Benzo(a)anthracene  
 Concen: 2.327 ng  
 RT: 22.001 min Scan# 3185  
 Delta R.T. -0.000 min  
 Lab File: BG055979.D  
 Acq: 15 Dec 2022 16:25

Tgt Ion:228 Resp: 12788  
 Ion Ratio Lower Upper  
 228 100  
 226 25.7 21.8 32.6  
 229 20.5 15.9 23.9





#83

Chrysene

Concen: 4.389 ng

RT: 22.072 min Scan# 31

Delta R.T. -0.006 min

Lab File: BG055979.D

Acq: 15 Dec 2022 16:25

Instrument :

BNA\_G

ClientSampleId :

1522

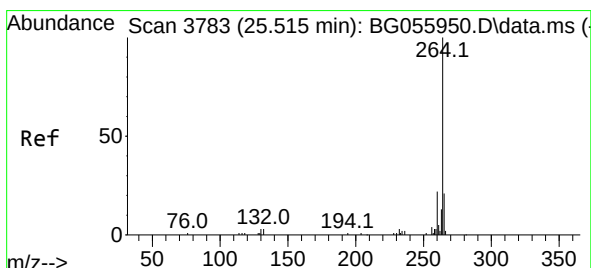
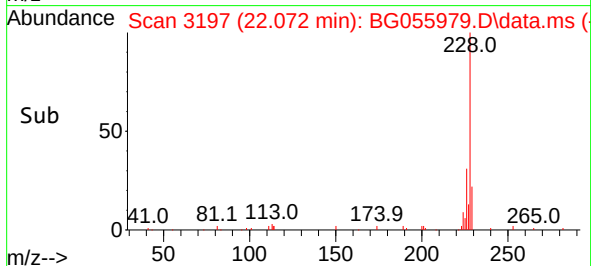
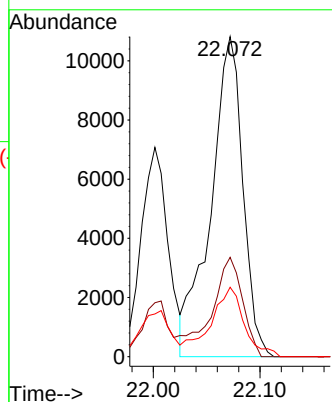
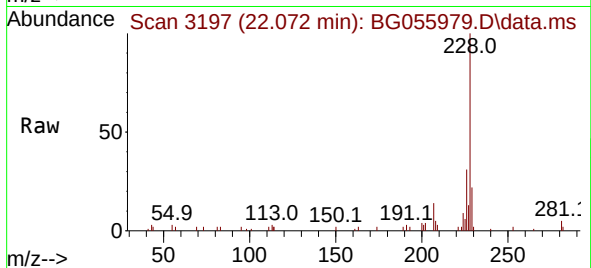
Tgt Ion:228 Resp: 22607

Ion Ratio Lower Upper

228 100

226 31.1 23.1 34.7

229 21.7 15.7 23.5



#86

Perylene-d12

Concen: 20.000 ng

RT: 25.521 min Scan# 3784

Delta R.T. 0.006 min

Lab File: BG055979.D

Acq: 15 Dec 2022 16:25

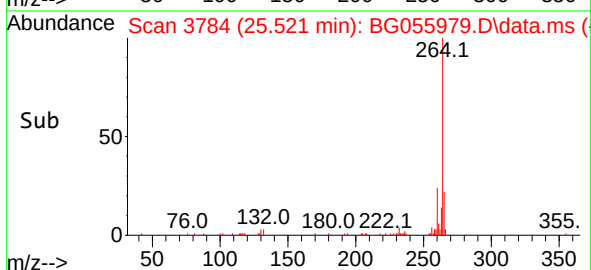
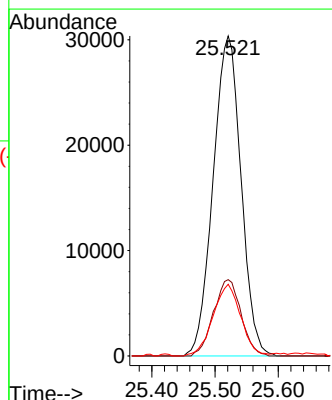
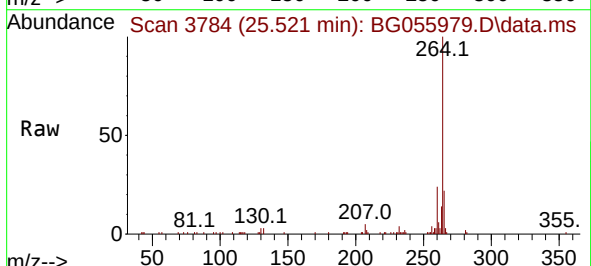
Tgt Ion:264 Resp: 93066

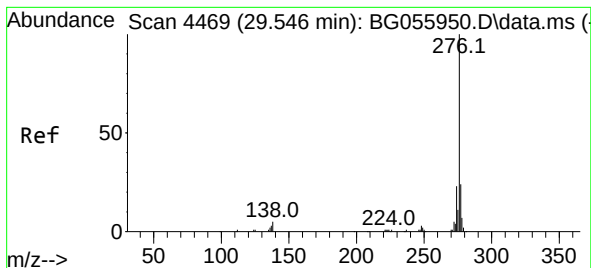
Ion Ratio Lower Upper

264 100

260 23.8 17.8 26.8

265 22.4 16.6 25.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 2.037 ng

RT: 29.522 min Scan# 4465

Delta R.T. -0.024 min

Lab File: BG055979.D

Acq: 15 Dec 2022 16:25

Instrument :

BNA\_G

ClientSampleId :

1522

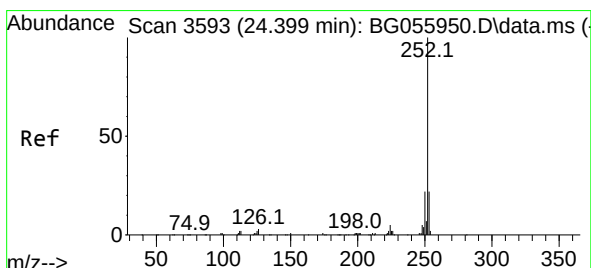
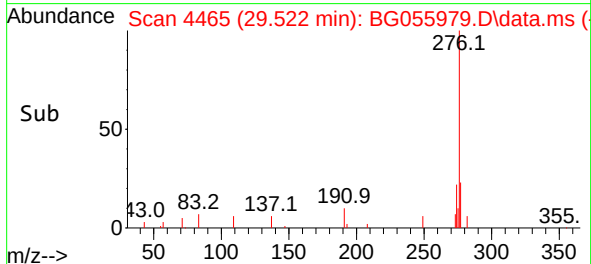
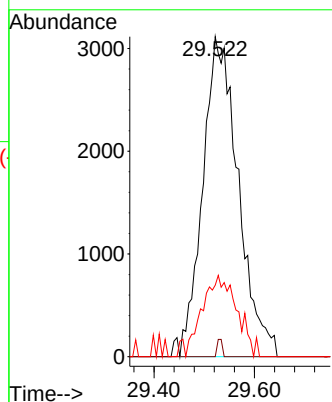
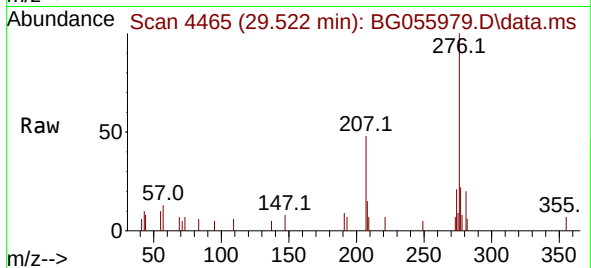
Tgt Ion:276 Resp: 15241

Ion Ratio Lower Upper

276 100

138 0.8 3.0 4.4#

277 24.4 20.4 30.6



#88

Benzo(b)fluoranthene

Concen: 5.025 ng

RT: 24.399 min Scan# 3593

Delta R.T. -0.000 min

Lab File: BG055979.D

Acq: 15 Dec 2022 16:25

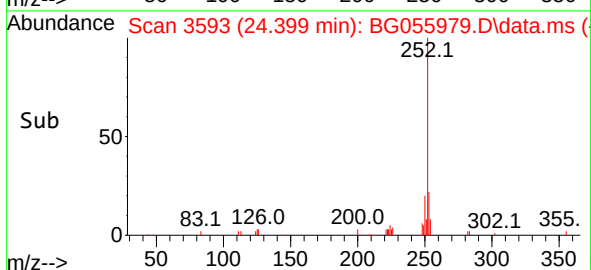
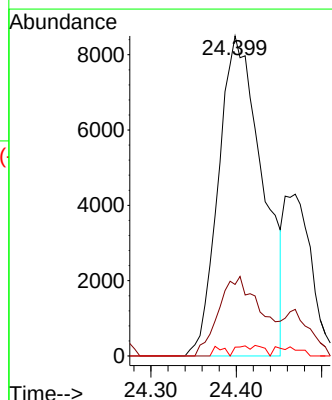
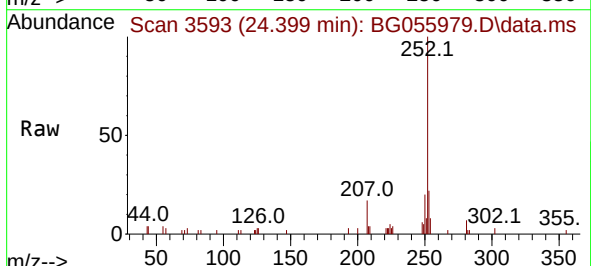
Tgt Ion:252 Resp: 30269

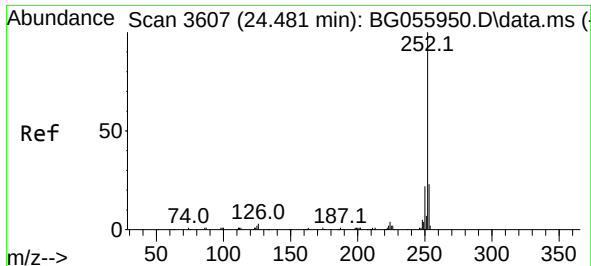
Ion Ratio Lower Upper

252 100

253 22.3 17.4 26.0

125 2.7 1.8 2.8





#89

Benzo(k)fluoranthene

Concen: 5.037 ng

RT: 24.399 min Scan# 31

Delta R.T. -0.082 min

Lab File: BG055979.D

Acq: 15 Dec 2022 16:25

Instrument :

BNA\_G

ClientSampleId :

1522

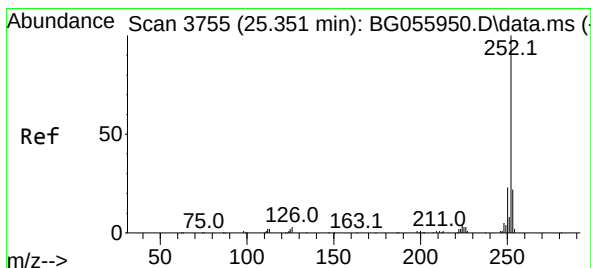
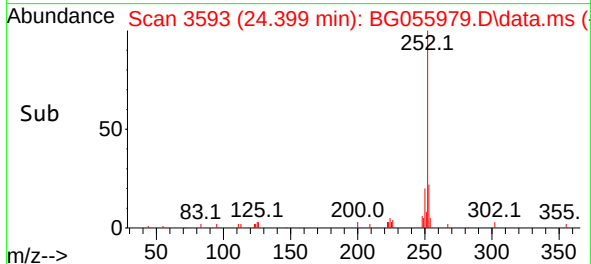
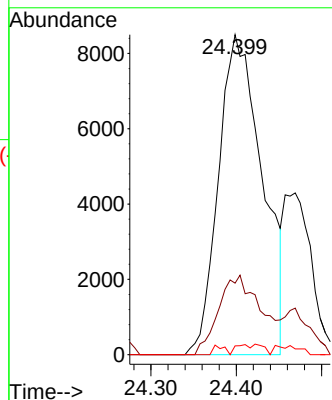
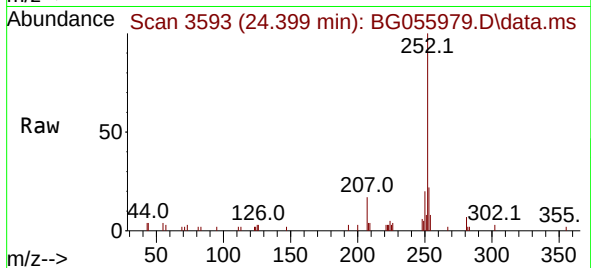
Tgt Ion:252 Resp: 30269

Ion Ratio Lower Upper

252 100

253 22.3 18.2 27.2

125 2.7 2.0 3.0



#90

Benzo(a)pyrene

Concen: 3.313 ng

RT: 25.350 min Scan# 3755

Delta R.T. -0.000 min

Lab File: BG055979.D

Acq: 15 Dec 2022 16:25

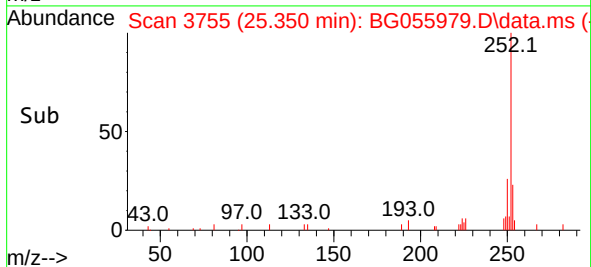
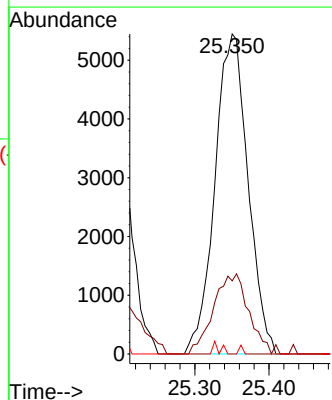
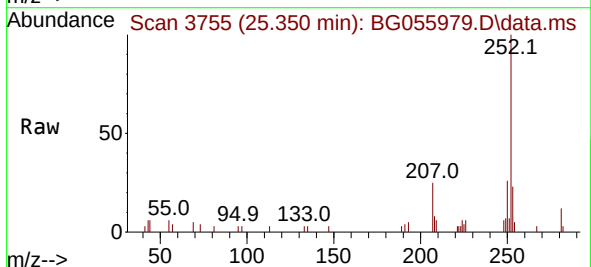
Tgt Ion:252 Resp: 16865

Ion Ratio Lower Upper

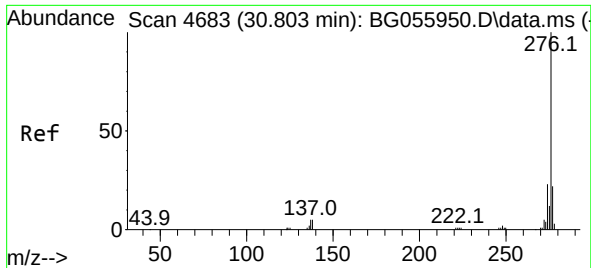
252 100

253 22.8 17.7 26.5

125 0.0 1.9 2.9#







#92  
 Benzo(g,h,i)perylene  
 Concen: 2.347 ng  
 RT: 30.797 min Scan# 4  
 Delta R.T. -0.006 min  
 Lab File: BG055979.D  
 Acq: 15 Dec 2022 16:25

Instrument :  
 BNA\_G  
 ClientSampleId :  
 1522

Tgt Ion:276 Resp: 14215  
 Ion Ratio Lower Upper  
 276 100  
 277 22.0 17.8 26.6  
 138 7.0 3.8 5.6#

