

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG120622\  
 Data File : BG055908.D  
 Acq On : 6 Dec 2022 18:05  
 Operator : CG/JU  
 Sample : N5884-01MSD  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 EO-3-120522MSD

Quant Time: Dec 07 05:11:31 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG111622.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 07 05:04:10 2022  
 Response via : Initial Calibration

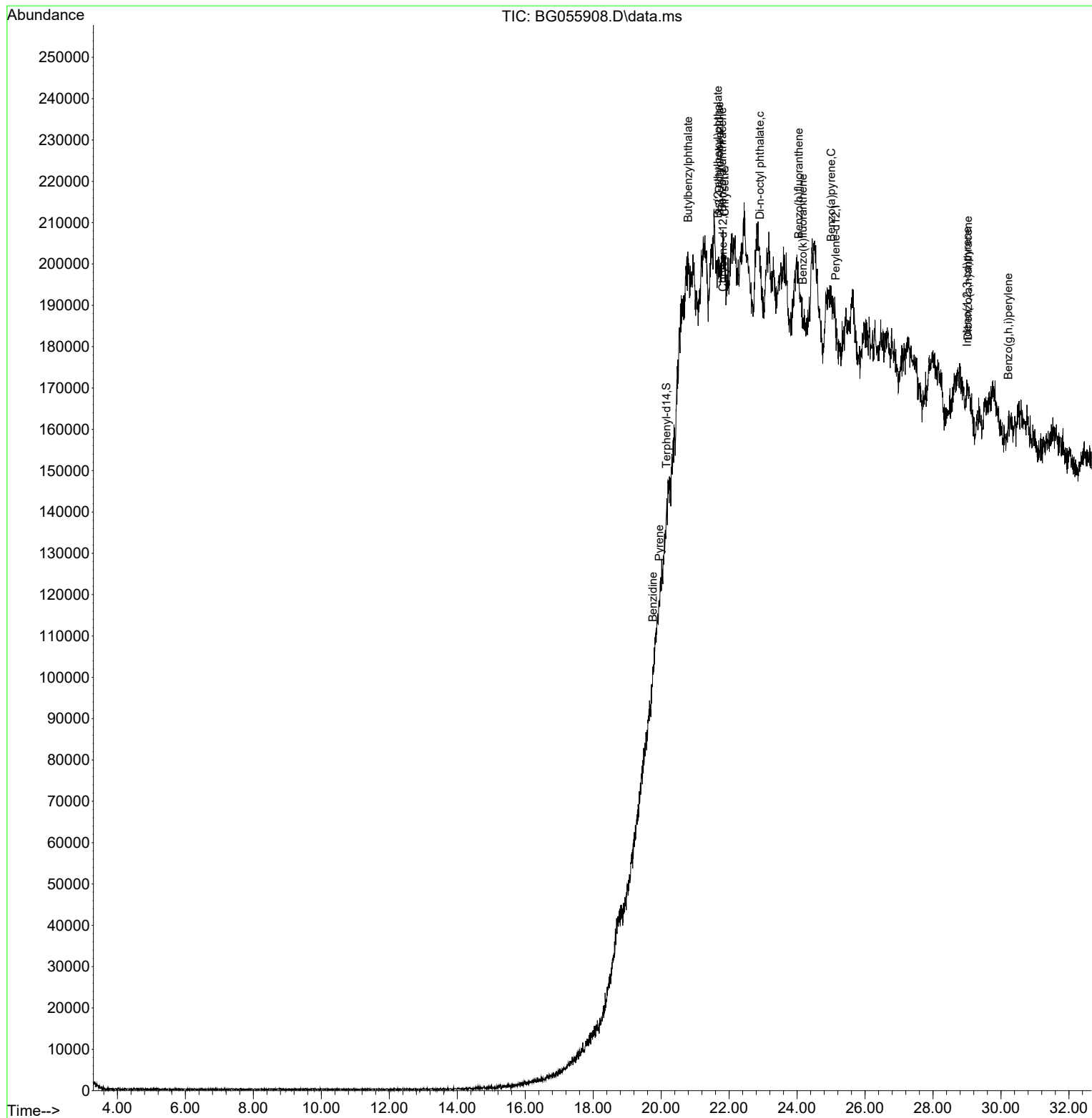
| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 0.000  | 152  | 0        | 0.000   | ng    | -8.16    |
| 21) Naphthalene-d8            | 0.000  | 136  | 0        | 0.000   | ng    | -10.99   |
| 39) Acenaphthene-d10          | 0.000  | 164  | 0        | 0.000   | ng    | -14.80   |
| 64) Phenanthrene-d10          | 0.000  | 188  | 0        | 0.000   | ng    | -17.55   |
| 76) Chrysene-d12              | 21.818 | 240  | 92       | 20.000  | ng    | #-0.01   |
| 86) Perylene-d12              | 25.138 | 264  | 166      | 20.000  | ng    | #-0.04   |
|                               |        |      |          |         |       |          |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 0.000  | 112  | 0        | 0.000   | ng    |          |
| 7) Phenol-d6                  | 0.000  | 99   | 0        | 0.000   | ng    |          |
| 23) Nitrobenzene-d5           | 0.000  | 82   | 0        | 0.000   | ng    |          |
| 42) 2,4,6-Tribromophenol      | 0.000  | 330  | 0        | 0.000   | ng    |          |
| 45) 2-Fluorobiphenyl          | 0.000  | 172  | 0        | 0.000   | ng    |          |
| 79) Terphenyl-d14             | 20.155 | 244  | 268      | 58.265  | ng    | 0.03     |
|                               |        |      |          |         |       |          |
| Target Compounds              |        |      |          |         |       | Qvalue   |
| 77) Benzidine                 | 19.756 | 184  | 301      | 141.423 | ng    | # 1      |
| 78) Pyrene                    | 19.950 | 202  | 531      | 85.270  | ng    | # 1      |
| 80) Butylbenzylphthalate      | 20.796 | 149  | 485      | 198.946 | ng    | # 56     |
| 81) Benzo(a)anthracene        | 21.801 | 228  | 945      | 149.134 | ng    | # 2      |
| 82) 3,3'-Dichlorobenzidine    | 21.712 | 252  | 187      | 83.986  | ng    | # 64     |
| 83) Chrysene                  | 21.871 | 228  | 839      | 139.083 | ng    | # 5      |
| 84) Bis(2-ethylhexyl)phtha... | 21.671 | 149  | 907      | 258.881 | ng    | # 60     |
| 85) Di-n-octyl phthalate      | 22.905 | 149  | 934      | 155.778 | ng    | # 1      |
| 87) Indeno(1,2,3-cd)pyrene    | 29.004 | 276  | 171      | 12.574  | ng    | # 1      |
| 88) Benzo(b)fluoranthene      | 24.051 | 252  | 108      | 9.990   | ng    | # 1      |
| 89) Benzo(k)fluoranthene      | 24.168 | 252  | 925      | 85.837  | ng    | # 1      |
| 90) Benzo(a)pyrene            | 25.003 | 252  | 344      | 37.081  | ng    | # 1      |
| 91) Dibenzo(a,h)anthracene    | 29.027 | 278  | 213      | 19.167  | ng    | # 1      |
| 92) Benzo(g,h,i)perylene      | 30.214 | 276  | 138      | 12.321  | ng    | # 17     |
| -----                         |        |      |          |         |       |          |

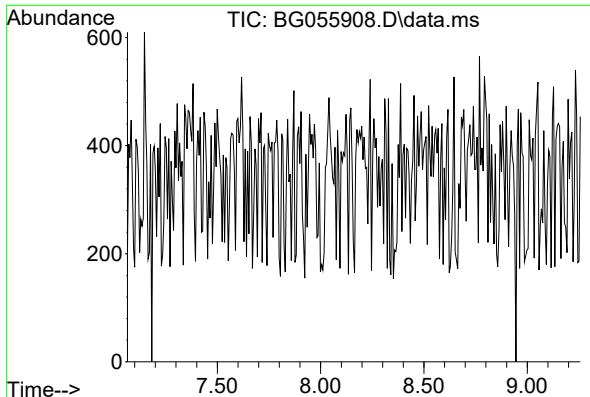
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG120622\  
Data File : BG055908.D  
Acq On : 6 Dec 2022 18:05  
Operator : CG/JU  
Sample : N5884-01MSD  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
EO-3-120522MSD

Quant Time: Dec 07 05:11:31 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG111622.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Dec 07 05:04:10 2022  
Response via : Initial Calibration

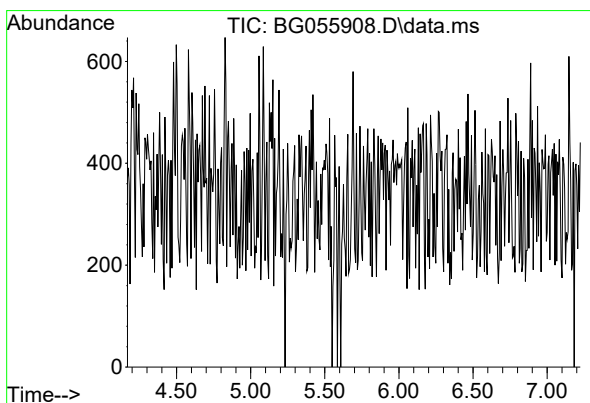
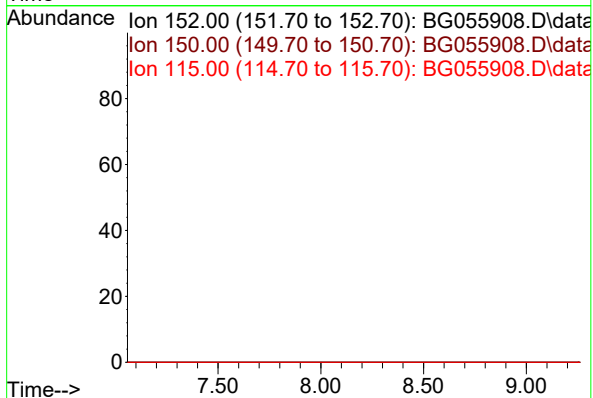




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.000 ng  
Expected RT: 8.16 min  
  
Lab File: BG055908.D  
Acq: 6 Dec 2022 18:05

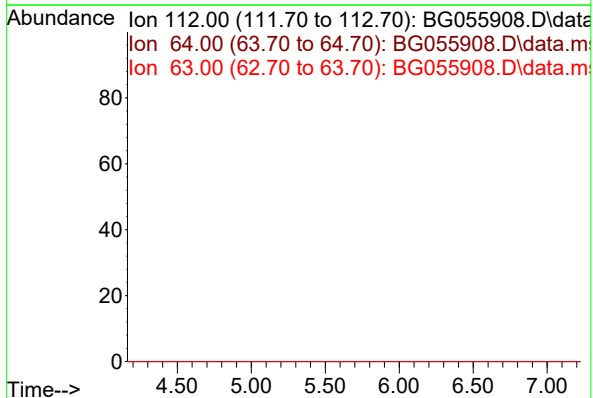
Instrument :  
BNA\_G  
ClientSampleId :  
EO-3-120522MSD

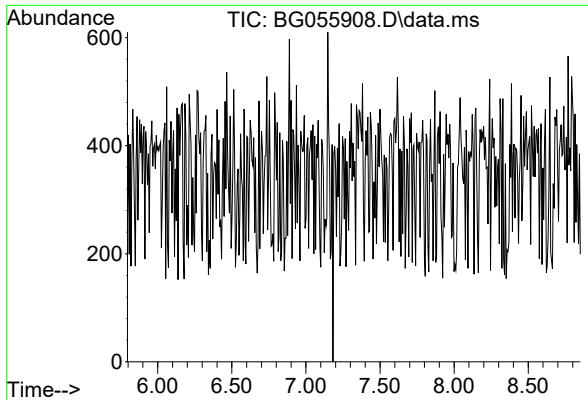
Tgt Ion: 152  
Sig Exp Ratio  
152 100  
150 153.8  
115 58.7



#5  
2-Fluorophenol  
Concen: 0.000 ng  
Expected RT: 5.69 min  
  
Lab File: BG055908.D  
Acq: 6 Dec 2022 18:05

Tgt Ion: 112  
Sig Exp Ratio  
112 100  
64 63.3  
63 34.4



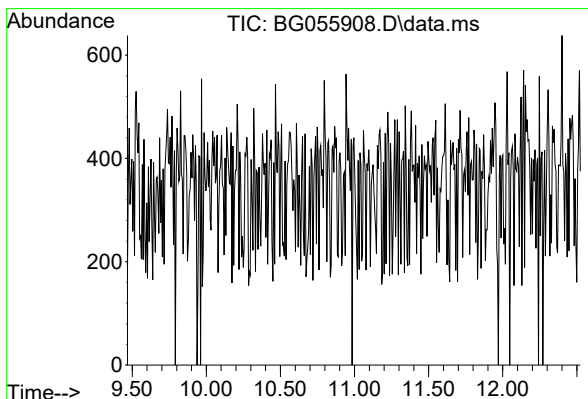
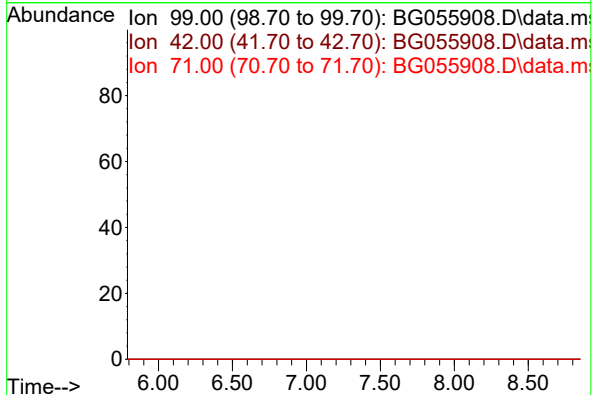


#7  
 Phenol-d6  
 Concen: 0.000 ng  
 Expected RT: 7.32 min  
 Lab File: BG055908.D  
 Acq: 6 Dec 2022 18:05

Instrument :  
 BNA\_G  
 ClientSampleId :  
 EO-3-120522MSD

Tgt Ion: 99  

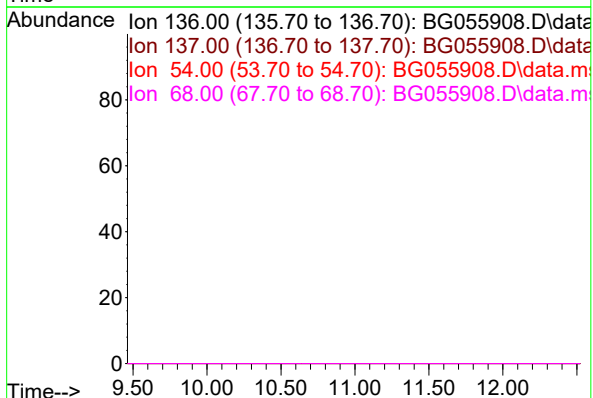
| Sig | Exp Ratio |
|-----|-----------|
| 99  | 100       |
| 42  | 22.5      |
| 71  | 36.3      |

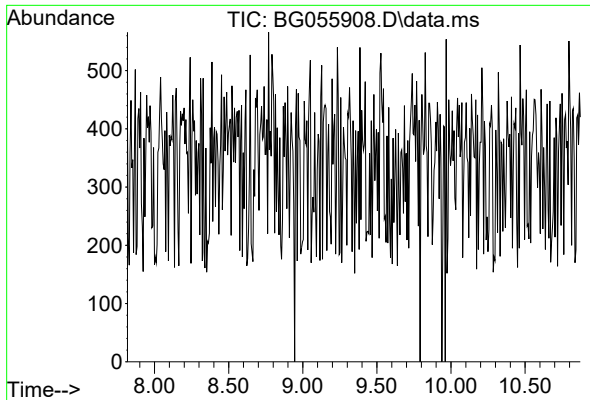


#21  
 Naphthalene-d8  
 Concen: 0.000 ng  
 Expected RT: 10.99 min  
 Lab File: BG055908.D  
 Acq: 6 Dec 2022 18:05

Tgt Ion: 136  

| Sig | Exp Ratio |
|-----|-----------|
| 136 | 100       |
| 137 | 11.3      |
| 54  | 9.7       |
| 68  | 6.2       |

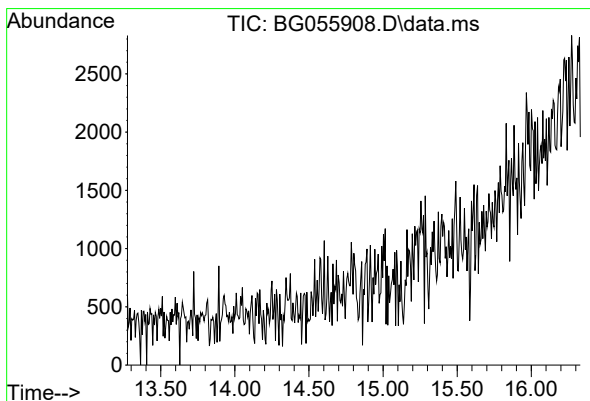
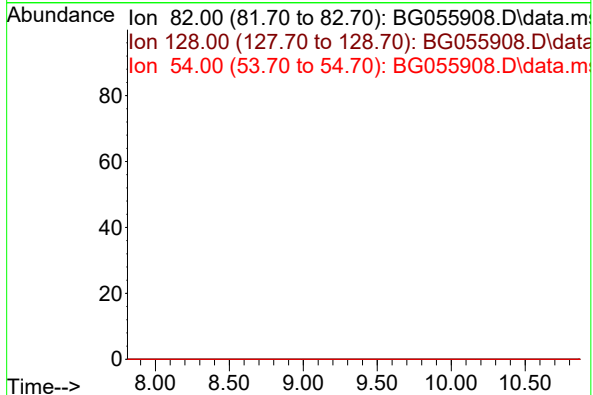




#23  
 Nitrobenzene-d5  
 Concen: 0.000 ng  
 Expected RT: 9.34 min  
 Lab File: BG055908.D  
 Acq: 6 Dec 2022 18:05

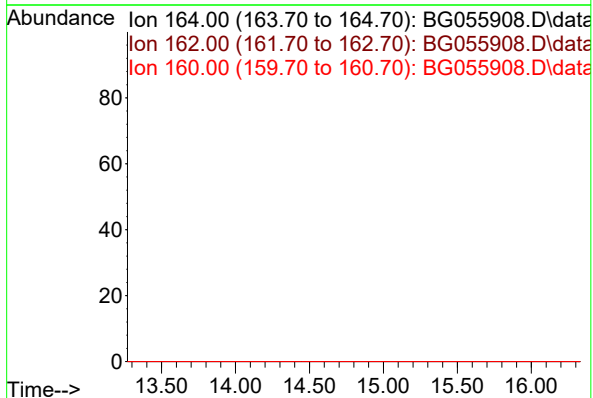
Instrument :  
 BNA\_G  
 ClientSampleId :  
 EO-3-120522MSD

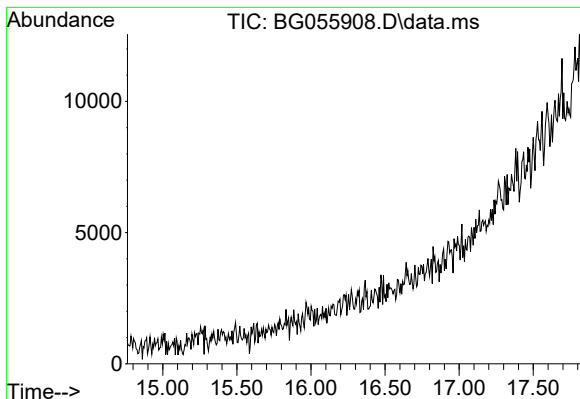
Tgt Ion: 82  
 Sig Exp Ratio  
 82 100  
 128 42.6  
 54 59.1



#39  
 Acenaphthene-d10  
 Concen: 0.000 ng  
 Expected RT: 14.80 min  
 Lab File: BG055908.D  
 Acq: 6 Dec 2022 18:05

Tgt Ion: 164  
 Sig Exp Ratio  
 164 100  
 162 101.4  
 160 43.5



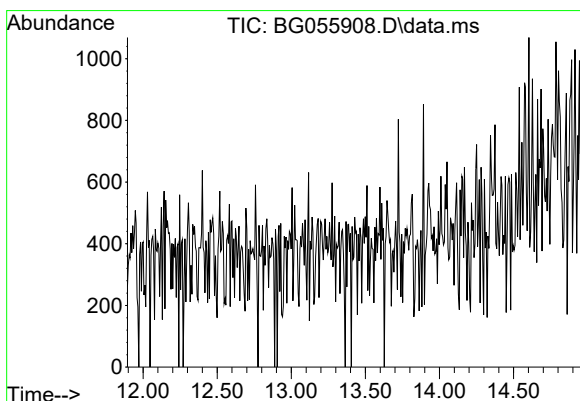
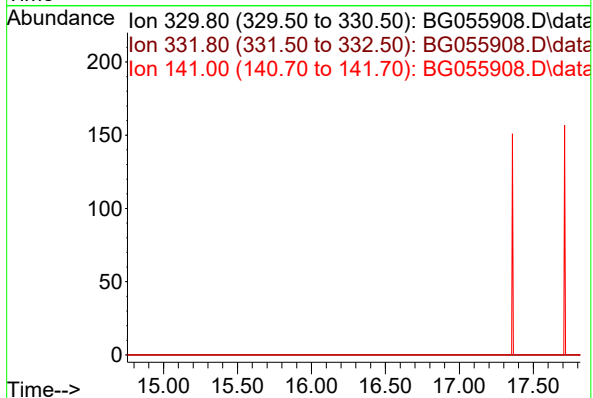


#42  
 2,4,6-Tribromophenol  
 Concen: 0.000 ng  
 Expected RT: 16.29 min

Lab File: BG055908.D  
 Acq: 6 Dec 2022 18:05

Instrument :  
 BNA\_G  
 ClientSampleId :  
 EO-3-120522MSD

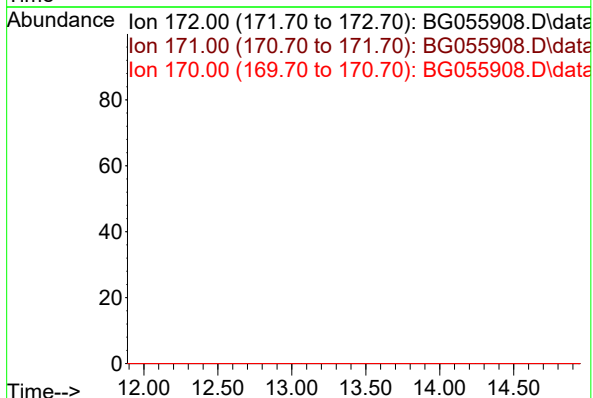
Tgt Ion: 330  
 Sig Exp Ratio  
 330 100  
 332 97.3  
 141 29.9

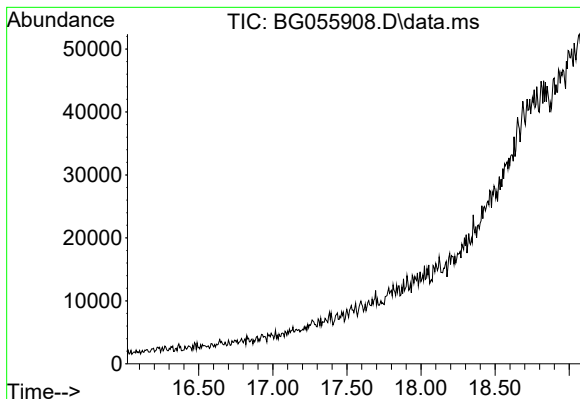


#45  
 2-Fluorobiphenyl  
 Concen: 0.000 ng  
 Expected RT: 13.42 min

Lab File: BG055908.D  
 Acq: 6 Dec 2022 18:05

Tgt Ion: 172  
 Sig Exp Ratio  
 172 100  
 171 37.2  
 170 25.3

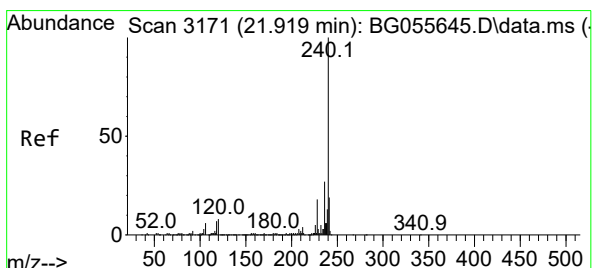
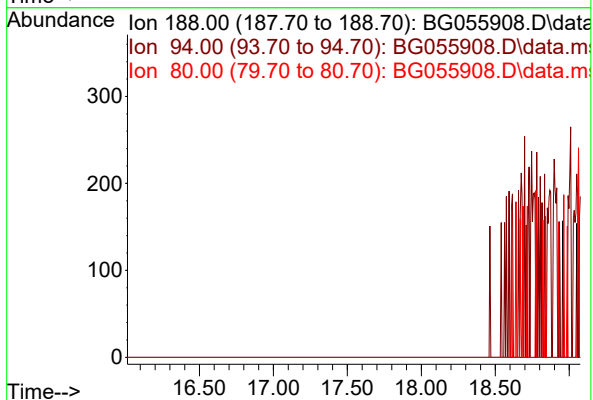




#64  
Phenanthrene-d10  
Concen: 0.000 ng  
Expected RT: 17.55 min  
Lab File: BG055908.D  
Acq: 6 Dec 2022 18:05

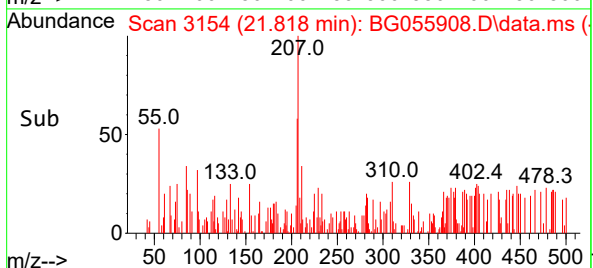
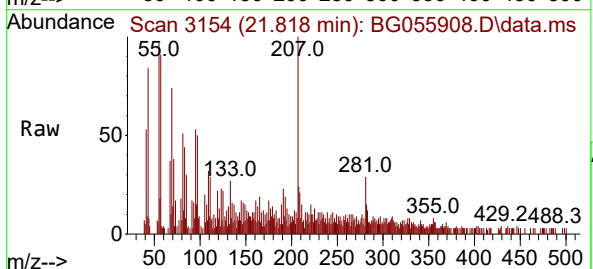
Instrument :  
BNA\_G  
ClientSampleId :  
EO-3-120522MSD

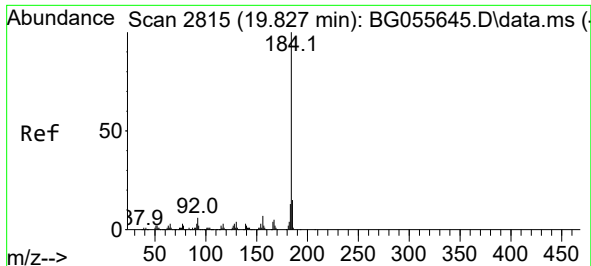
Tgt Ion: 188  
Sig Exp Ratio  
188 100  
94 6.8  
80 8.3



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.818 min Scan# 3154  
Delta R.T. -0.010 min  
Lab File: BG055908.D  
Acq: 6 Dec 2022 18:05

Tgt Ion: 240 Resp: 92  
Ion Ratio Lower Upper  
240 100  
120 118.9 6.3 9.5#  
236 93.1 21.9 32.9#

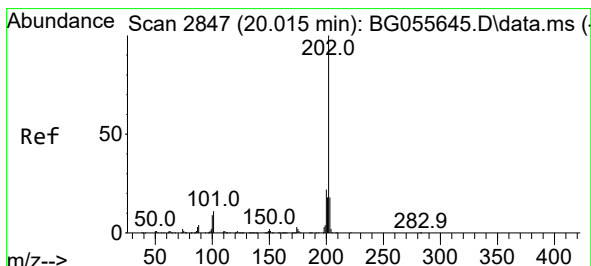
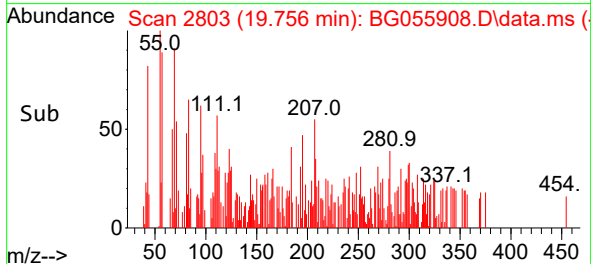
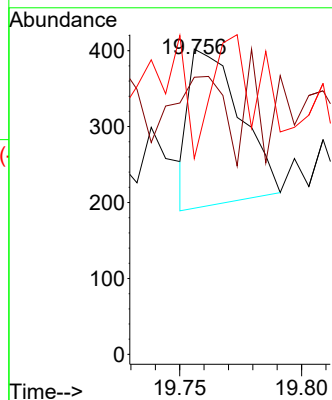
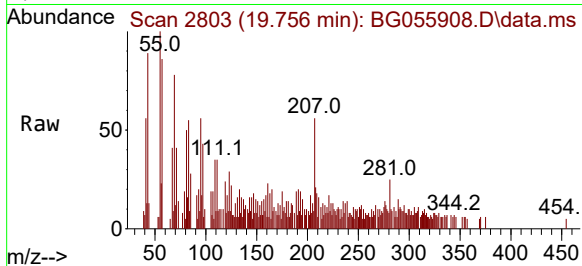




#77  
Benzidine  
Concen: 141.423 ng  
RT: 19.756 min Scan# 2815  
Delta R.T. 0.002 min  
Lab File: BG055908.D  
Acq: 6 Dec 2022 18:05

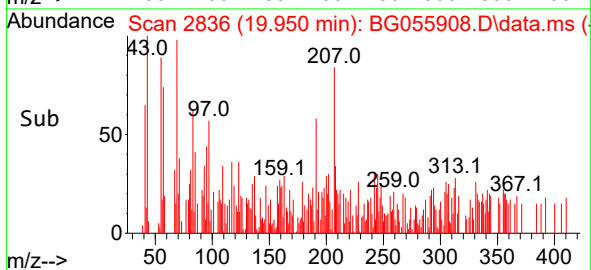
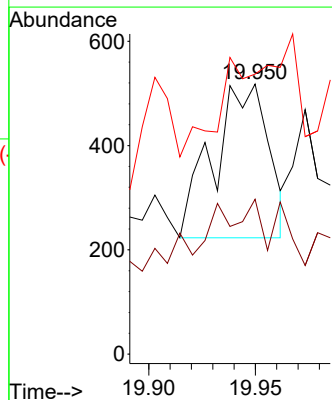
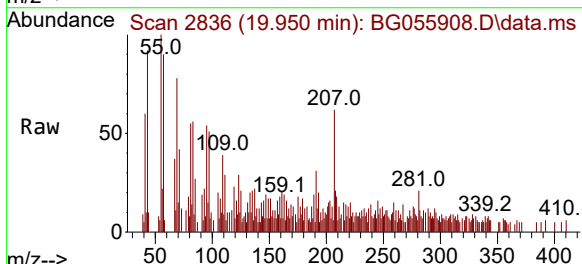
Instrument :  
BNA\_G  
ClientSampleId :  
EO-3-120522MSD

Tgt Ion:184 Resp: 301  
Ion Ratio Lower Upper  
184 100  
185 90.8 11.8 17.8#  
183 64.2 10.6 15.8#

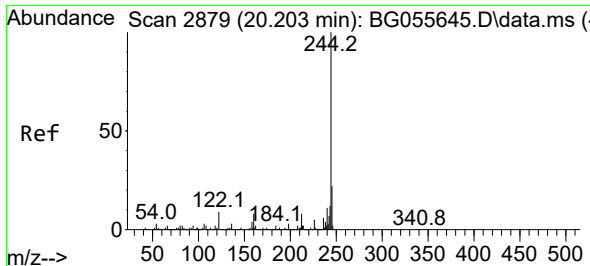


#78  
Pyrene  
Concen: 85.270 ng  
RT: 19.950 min Scan# 2836  
Delta R.T. 0.002 min  
Lab File: BG055908.D  
Acq: 6 Dec 2022 18:05

Tgt Ion:202 Resp: 531  
Ion Ratio Lower Upper  
202 100  
200 57.3 17.8 26.6#  
203 103.7 14.4 21.6#



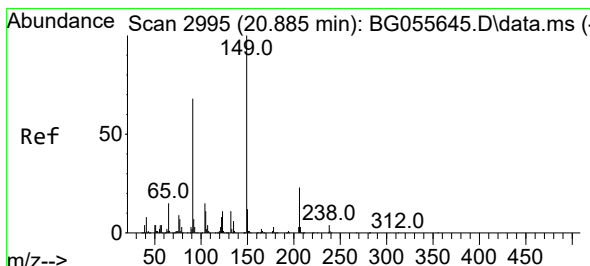
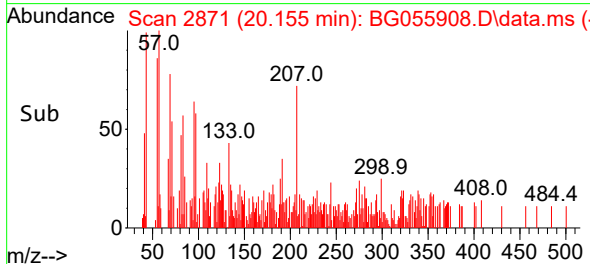
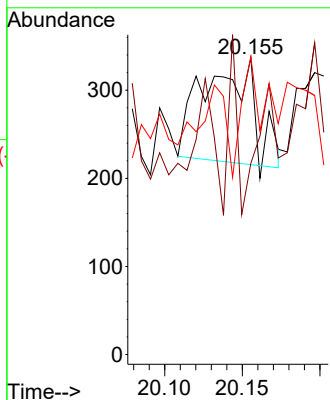
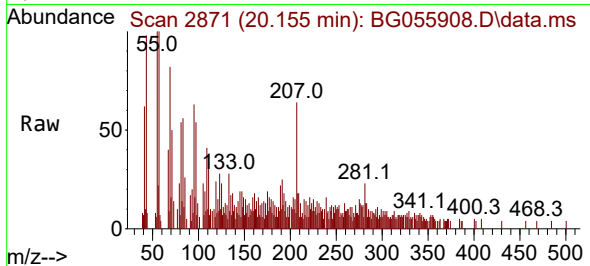




#79  
 Terphenyl-d14  
 Concen: 58.265 ng  
 RT: 20.155 min Scan# 21  
 Delta R.T. 0.025 min  
 Lab File: BG055908.D  
 Acq: 6 Dec 2022 18:05

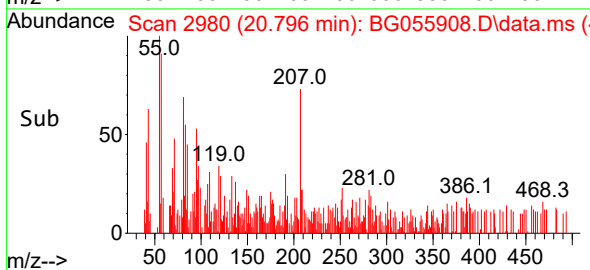
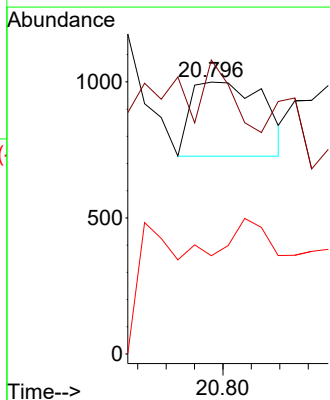
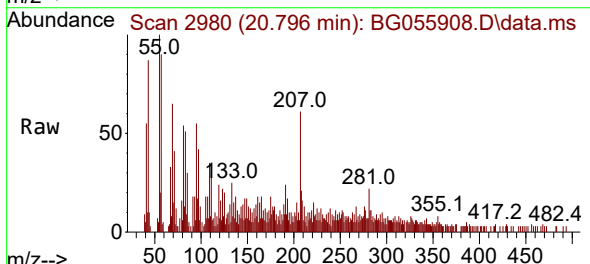
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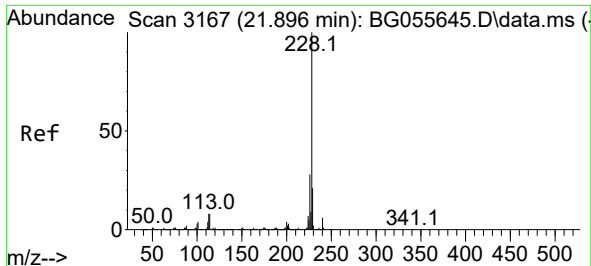
Tgt Ion:244 Resp: 268  
 Ion Ratio Lower Upper  
 244 100  
 212 64.4 6.3 9.5#  
 122 100.3 6.9 10.3#



#80  
 Butylbenzylphthalate  
 Concen: 198.946 ng  
 RT: 20.796 min Scan# 2980  
 Delta R.T. -0.010 min  
 Lab File: BG055908.D  
 Acq: 6 Dec 2022 18:05

Tgt Ion:149 Resp: 485  
 Ion Ratio Lower Upper  
 149 100  
 91 108.1 54.6 81.8#  
 206 36.1 18.3 27.5#

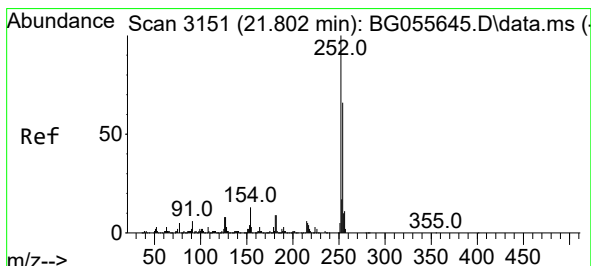
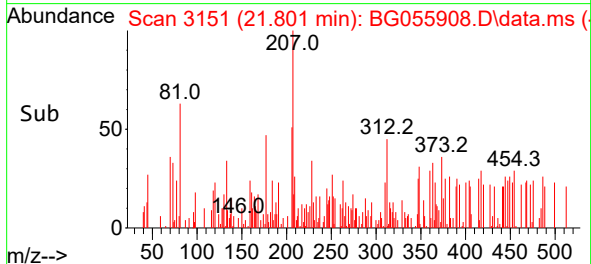
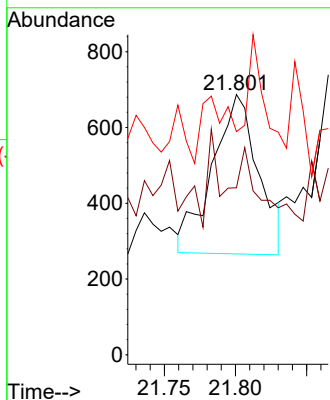
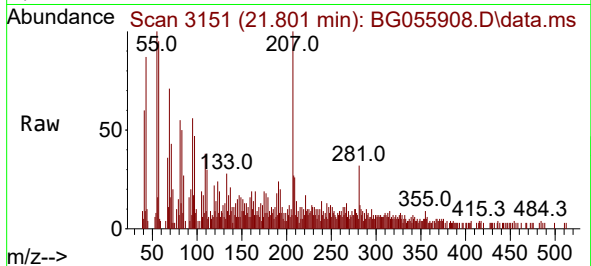




#81  
Benzo(a)anthracene  
Concen: 149.134 ng  
RT: 21.801 min Scan# 311  
Delta R.T. -0.004 min  
Lab File: BG055908.D  
Acq: 6 Dec 2022 18:05

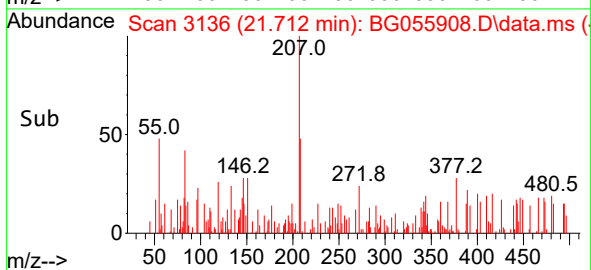
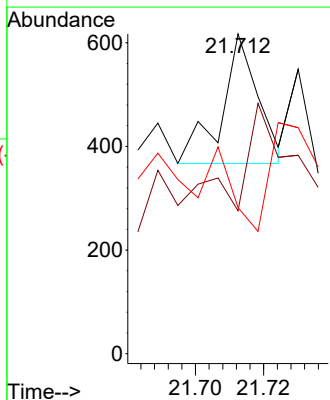
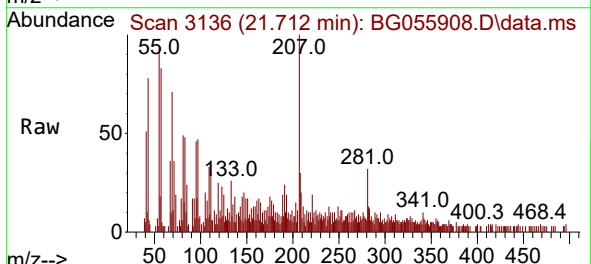
Instrument :  
BNA\_G  
ClientSampleId :  
EO-3-120522MSD

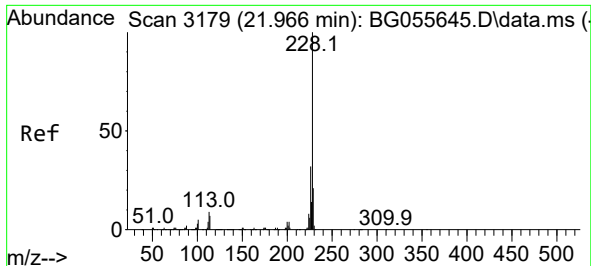
Tgt Ion:228 Resp: 945  
Ion Ratio Lower Upper  
228 100  
226 64.2 22.7 34.1#  
229 85.7 16.5 24.7#



#82  
3,3'-Dichlorobenzidine  
Concen: 83.986 ng  
RT: 21.712 min Scan# 3136  
Delta R.T. 0.002 min  
Lab File: BG055908.D  
Acq: 6 Dec 2022 18:05

Tgt Ion:252 Resp: 187  
Ion Ratio Lower Upper  
252 100  
254 44.7 53.0 79.6#  
126 45.7 6.7 10.1#





#83

Chrysene

Concen: 139.083 ng

RT: 21.871 min Scan# 31

Delta R.T. -0.004 min

Lab File: BG055908.D

Acq: 6 Dec 2022 18:05

Instrument :

BNA\_G

ClientSampleId :

EO-3-120522MSD

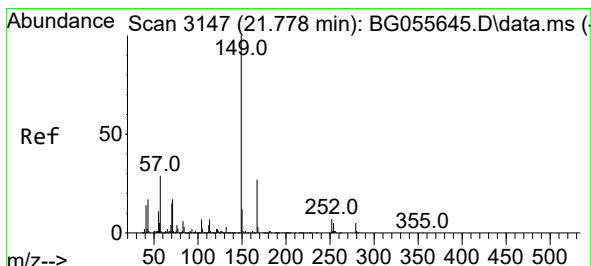
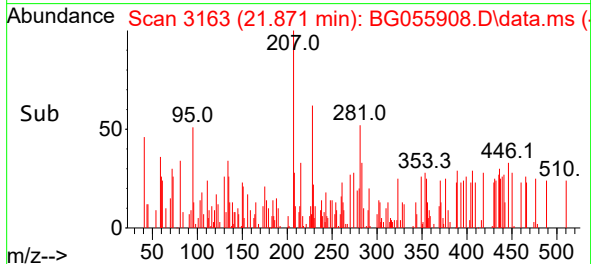
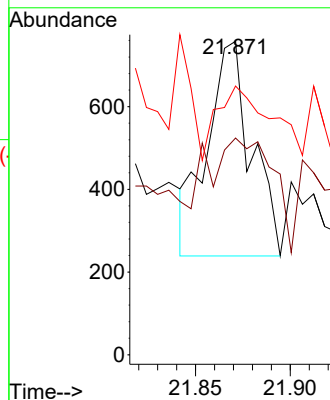
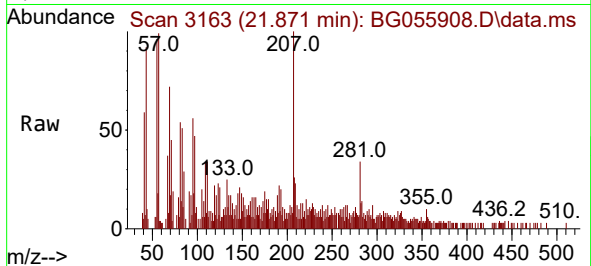
Tgt Ion:228 Resp: 839

Ion Ratio Lower Upper

228 100

226 69.1 25.4 38.2#

229 85.8 17.1 25.7#



#84

Bis(2-ethylhexyl)phthalate

Concen: 258.881 ng

RT: 21.671 min Scan# 3129

Delta R.T. 0.002 min

Lab File: BG055908.D

Acq: 6 Dec 2022 18:05

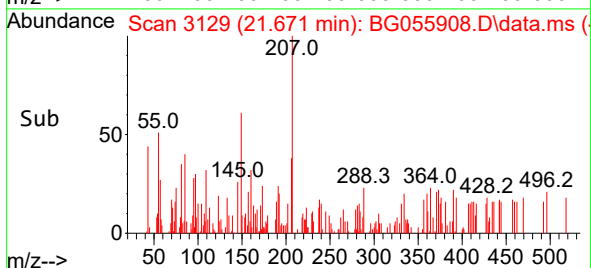
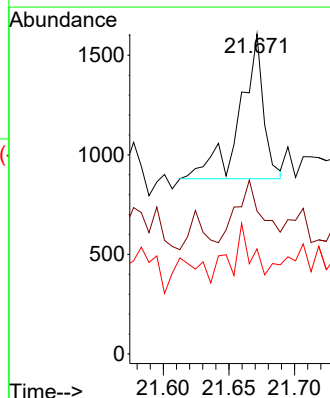
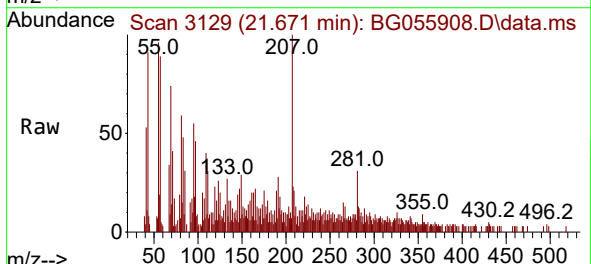
Tgt Ion:149 Resp: 907

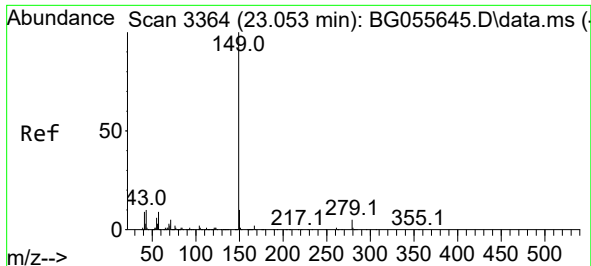
Ion Ratio Lower Upper

149 100

167 44.7 22.0 33.0#

279 32.9 3.7 5.5#

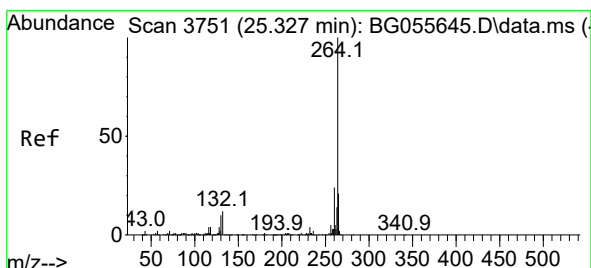
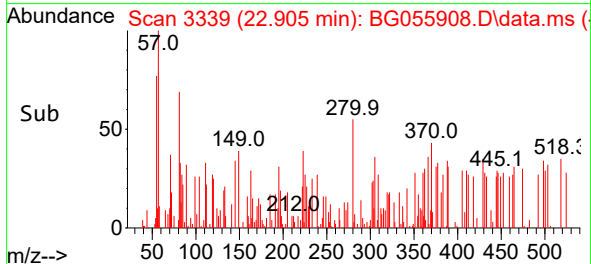
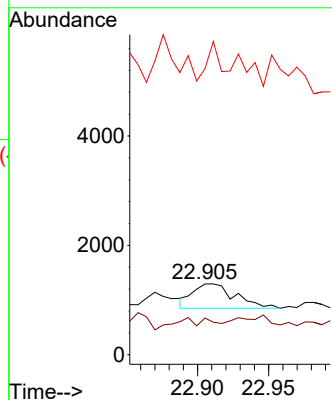
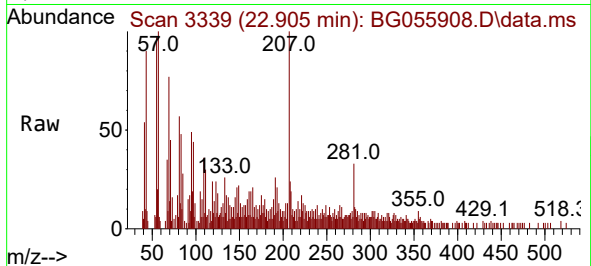




#85  
Di-n-octyl phthalate  
Concen: 155.778 ng  
RT: 22.905 min Scan# 31  
Delta R.T. -0.010 min  
Lab File: BG055908.D  
Acq: 6 Dec 2022 18:05

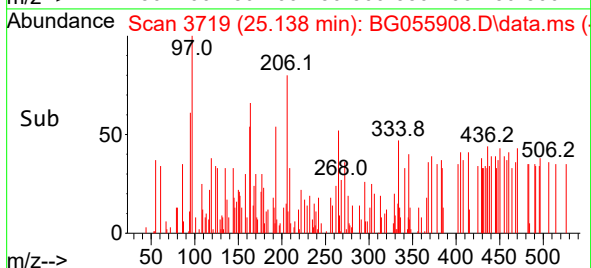
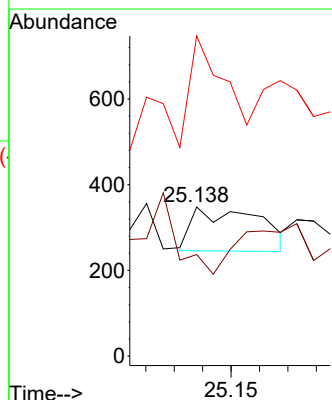
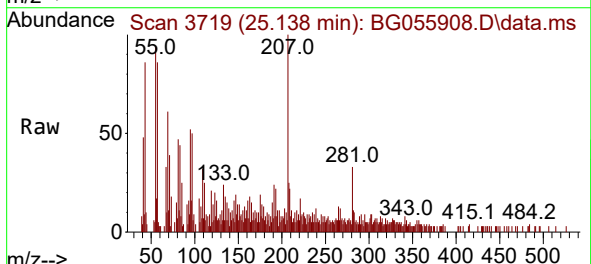
Instrument :  
BNA\_G  
ClientSampleId :  
EO-3-120522MSD

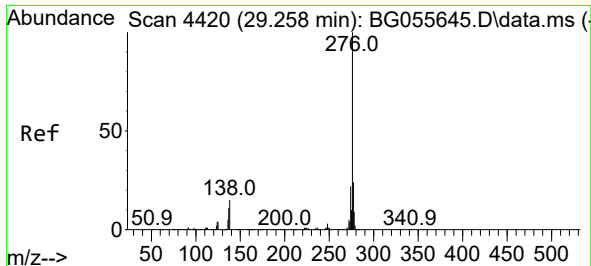
Tgt Ion:149 Resp: 934  
Ion Ratio Lower Upper  
149 100  
167 9.7 1.3 1.9#  
43 90.0 8.4 12.6#



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 25.138 min Scan# 3719  
Delta R.T. -0.040 min  
Lab File: BG055908.D  
Acq: 6 Dec 2022 18:05

Tgt Ion:264 Resp: 166  
Ion Ratio Lower Upper  
264 100  
260 68.1 19.5 29.3#  
265 214.7 17.1 25.7#

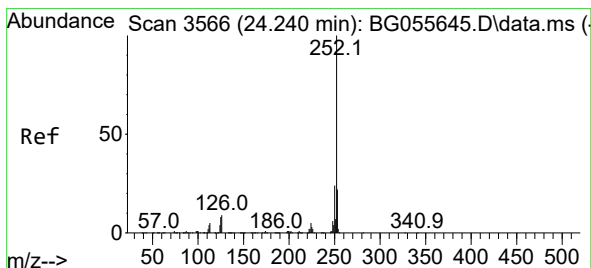
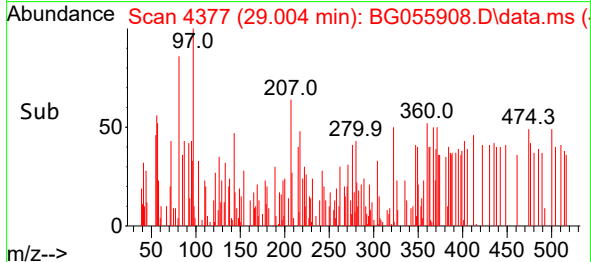
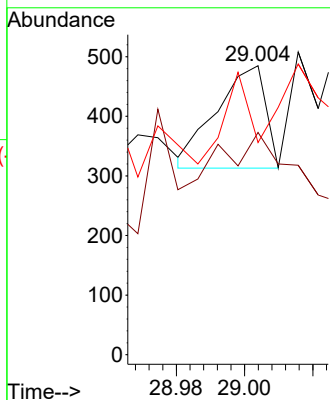
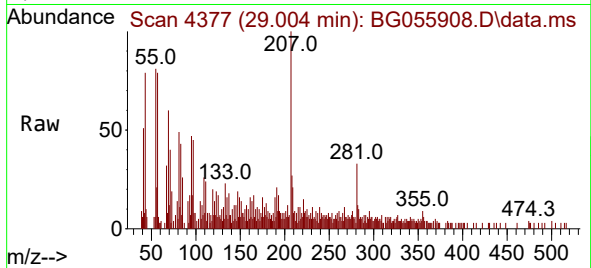




#87  
Indeno(1,2,3-cd)pyrene  
Concen: 12.574 ng  
RT: 29.004 min Scan# 41  
Delta R.T. -0.040 min  
Lab File: BG055908.D  
Acq: 6 Dec 2022 18:05

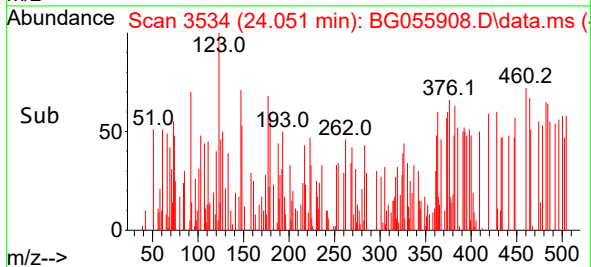
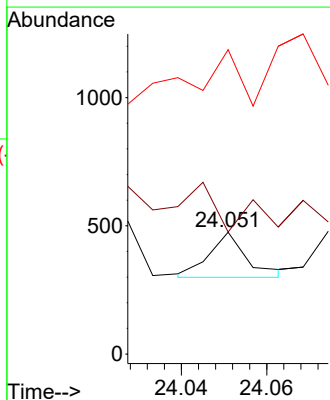
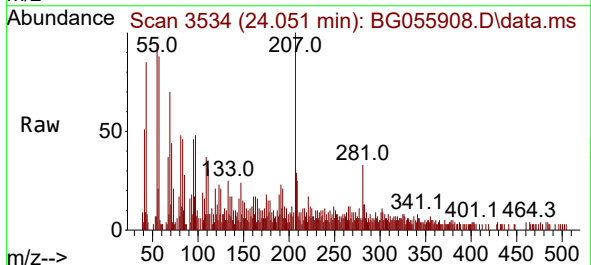
Instrument :  
BNA\_G  
ClientSampleId :  
EO-3-120522MSD

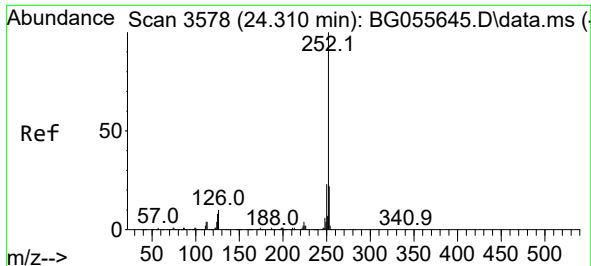
Tgt Ion:276 Resp: 171  
Ion Ratio Lower Upper  
276 100  
138 152.6 10.4 15.6#  
277 55.0 20.2 30.4#



#88  
Benzo(b)fluoranthene  
Concen: 9.990 ng  
RT: 24.051 min Scan# 3534  
Delta R.T. -0.057 min  
Lab File: BG055908.D  
Acq: 6 Dec 2022 18:05

Tgt Ion:252 Resp: 108  
Ion Ratio Lower Upper  
252 100  
253 100.2 18.0 27.0#  
125 249.9 6.2 9.2#

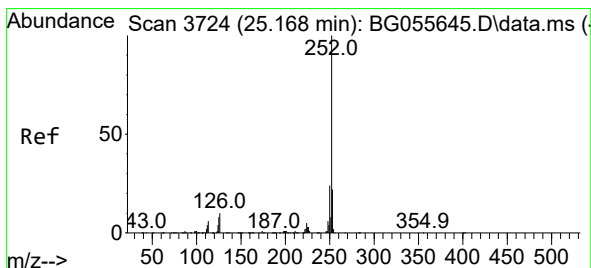
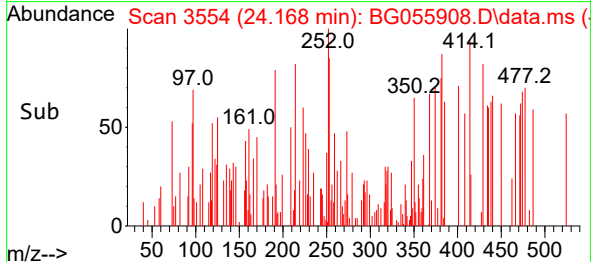
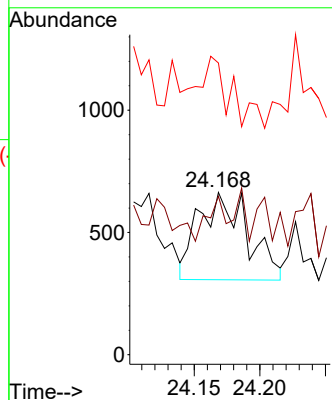
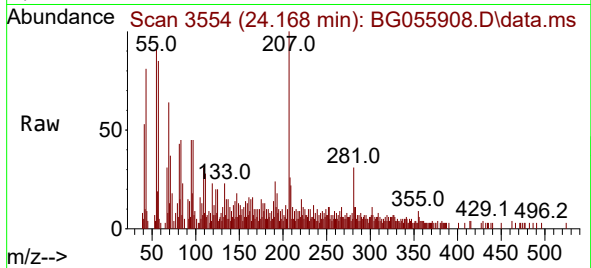




#89  
Benzo(k)fluoranthene  
Concen: 85.837 ng  
RT: 24.168 min Scan# 31  
Delta R.T. -0.010 min  
Lab File: BG055908.D  
Acq: 6 Dec 2022 18:05

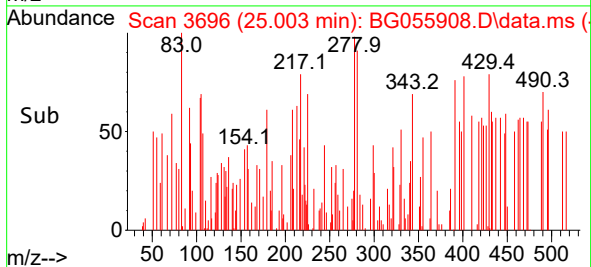
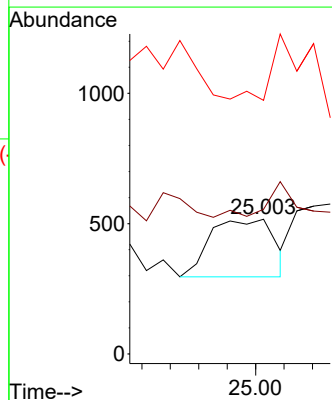
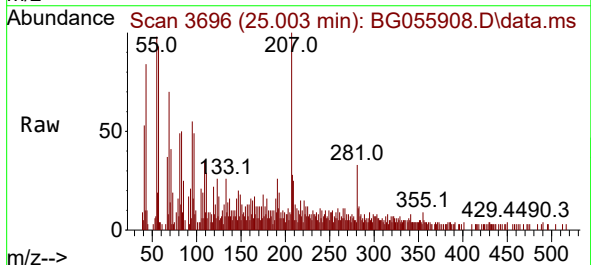
Instrument :  
BNA\_G  
ClientSampleId :  
EO-3-120522MSD

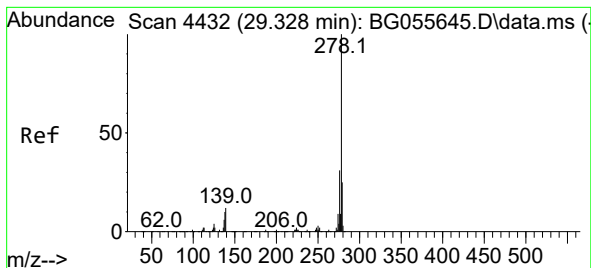
Tgt Ion:252 Resp: 925  
Ion Ratio Lower Upper  
252 100  
253 97.6 17.8 26.6#  
125 179.7 6.1 9.1#



#90  
Benzo(a)pyrene  
Concen: 37.081 ng  
RT: 25.003 min Scan# 3696  
Delta R.T. -0.016 min  
Lab File: BG055908.D  
Acq: 6 Dec 2022 18:05

Tgt Ion:252 Resp: 344  
Ion Ratio Lower Upper  
252 100  
253 107.4 17.8 26.6#  
125 188.2 6.4 9.6#





#91

Dibenzo(a,h)anthracene

Concen: 19.167 ng

RT: 29.027 min Scan# 41

Delta R.T. -0.063 min

Lab File: BG055908.D

Acq: 6 Dec 2022 18:05

Instrument :

BNA\_G

ClientSampleId :

EO-3-120522MSD

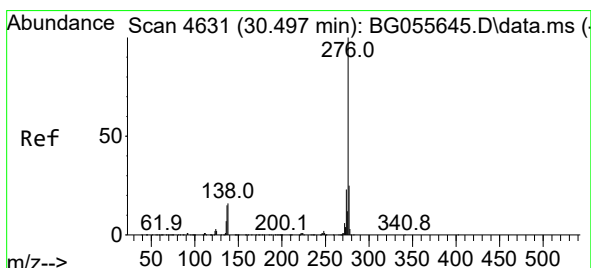
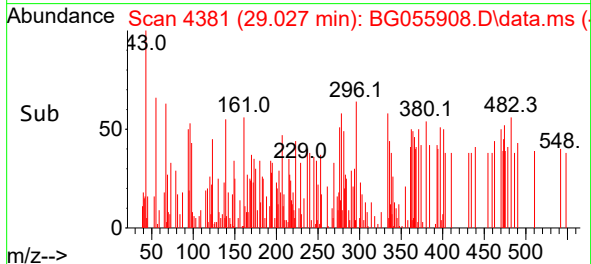
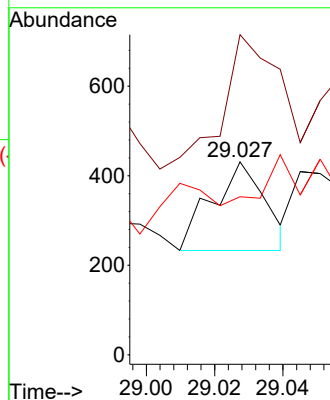
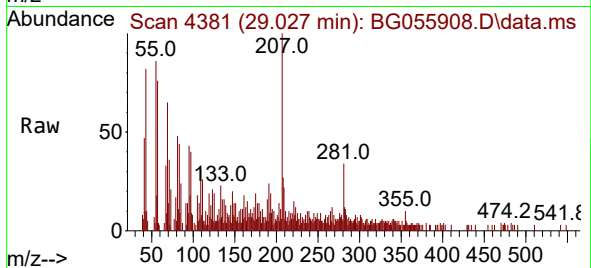
Tgt Ion:278 Resp: 213

Ion Ratio Lower Upper

278 100

139 165.9 9.8 14.8#

279 81.9 19.8 29.6#



#92

Benzo(g,h,i)perylene

Concen: 12.321 ng

RT: 30.214 min Scan# 4583

Delta R.T. -0.040 min

Lab File: BG055908.D

Acq: 6 Dec 2022 18:05

Tgt Ion:276 Resp: 138

Ion Ratio Lower Upper

276 100

277 59.5 19.8 29.6#

138 60.2 13.1 19.7#

