

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM082823\  
 Data File : BM041516.D  
 Acq On : 28 Aug 2023 10:52  
 Operator : MA/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTD0.4059

Quant Time: Aug 28 13:32:49 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM082823.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Aug 28 13:32:21 2023  
 Response via : Initial Calibration

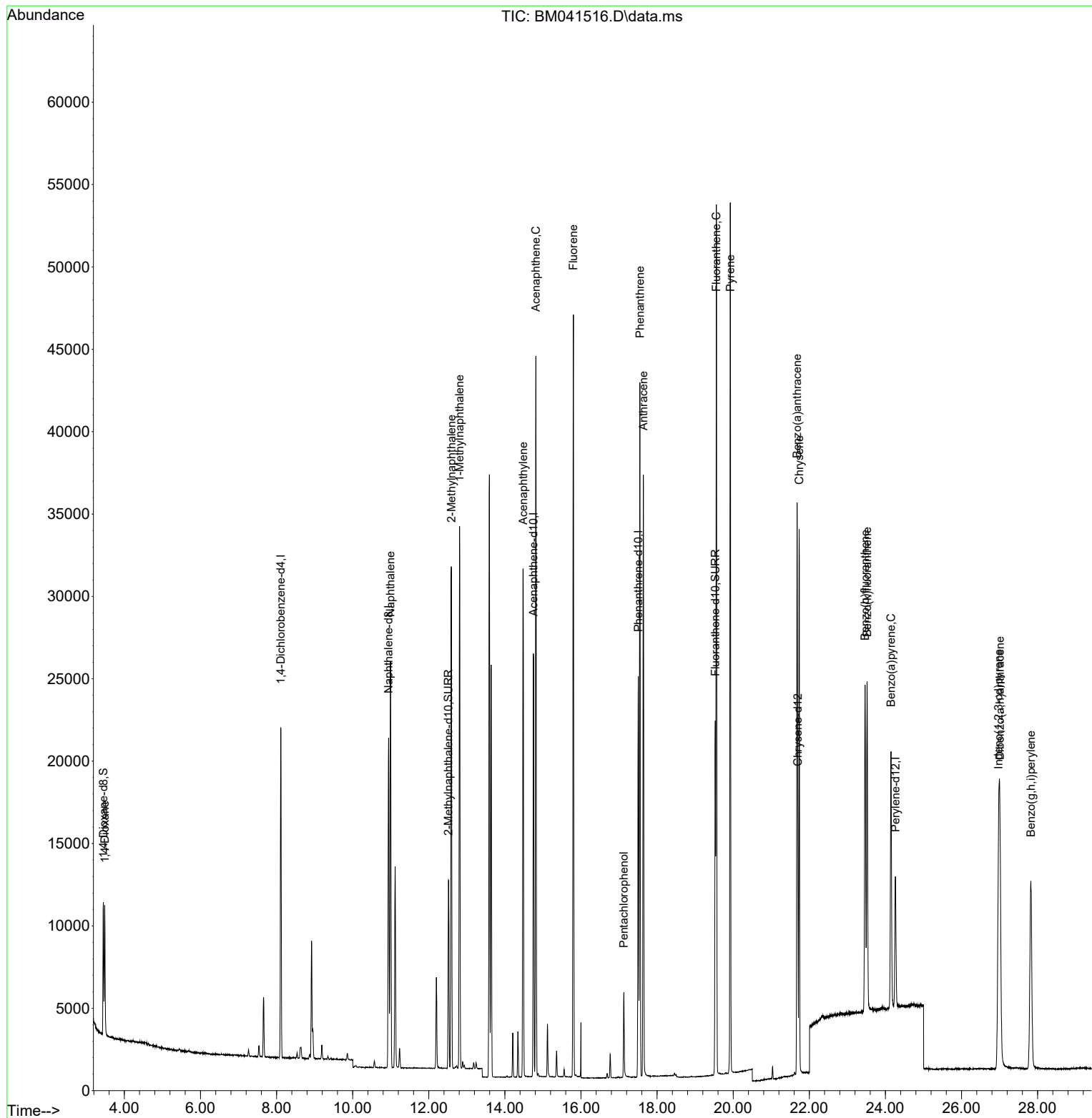
| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 8.114  | 152  | 9845     | 0.400 | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.944 | 136  | 25966    | 0.400 | ng/ul  | 0.00     |
| 9) Acenaphthene-d10         | 14.754 | 164  | 13019    | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.506 | 188  | 25820    | 0.400 | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.697 | 240  | 10219    | 0.400 | ng/ul  | 0.00     |
| 23) Perylene-d12            | 24.263 | 264  | 11518    | 0.400 | ng/ul  | 0.00     |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.448  | 96   | 4989     | 0.400 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.517 | 152  | 14297    | 0.417 | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.529 | 212  | 19115    | 0.424 | ng/ul  | 0.00     |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 2) 1,4-Dioxane              | 3.486  | 88   | 5219     | 0.407 | ng/ul  | 93       |
| 5) Naphthalene              | 10.994 | 128  | 33546    | 0.433 | ng/ul  | 99       |
| 7) 2-Methylnaphthalene      | 12.594 | 142  | 21122    | 0.454 | ng/ul  | 99       |
| 8) 1-Methylnaphthalene      | 12.808 | 142  | 21490    | 0.455 | ng/ul  | 99       |
| 10) Acenaphthylene          | 14.481 | 152  | 34701    | 0.444 | ng/ul  | 100      |
| 11) Acenaphthene            | 14.814 | 153  | 24435    | 0.449 | ng/ul  | 98       |
| 12) Fluorene                | 15.800 | 166  | 27830    | 0.457 | ng/ul  | 100      |
| 14) Pentachlorophenol       | 17.126 | 266  | 3411     | 0.701 | ng/ul  | 100      |
| 15) Phenanthrene            | 17.548 | 178  | 42089    | 0.444 | ng/ul  | 99       |
| 16) Anthracene              | 17.637 | 178  | 38818    | 0.450 | ng/ul  | 100      |
| 19) Fluoranthene            | 19.557 | 202  | 42442    | 0.453 | ng/ul  | 99       |
| 20) Pyrene                  | 19.924 | 202  | 42269    | 0.447 | ng/ul  | 99       |
| 21) Benzo(a)anthracene      | 21.679 | 228  | 28530    | 0.429 | ng/ul  | 99       |
| 22) Chrysene                | 21.735 | 228  | 27733    | 0.386 | ng/ul  | 100      |
| 24) Benzo(b)fluoranthene    | 23.465 | 252  | 27898    | 0.354 | ng/ul  | 98       |
| 25) Benzo(k)fluoranthene    | 23.521 | 252  | 27062    | 0.343 | ng/ul  | 98       |
| 26) Benzo(a)pyrene          | 24.146 | 252  | 24758    | 0.382 | ng/ul  | 97       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.975 | 276  | 32127    | 0.397 | ng/ul# | 100      |
| 28) Dibenzo(a,h)anthracene  | 27.008 | 278  | 23022    | 0.371 | ng/ul  | 98       |
| 29) Benzo(g,h,i)perylene    | 27.823 | 276  | 26920    | 0.377 | ng/ul  | 100      |

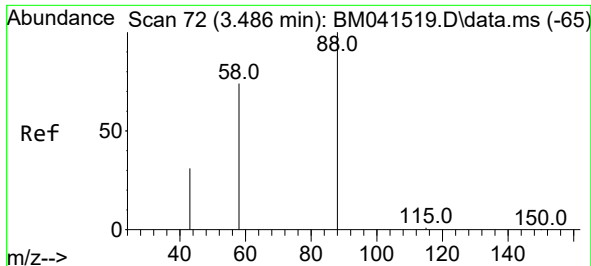
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM082823\  
Data File : BM041516.D  
Acq On : 28 Aug 2023 10:52  
Operator : MA/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
SSTD0.4059

Quant Time: Aug 28 13:32:49 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM082823.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Aug 28 13:32:21 2023  
Response via : Initial Calibration

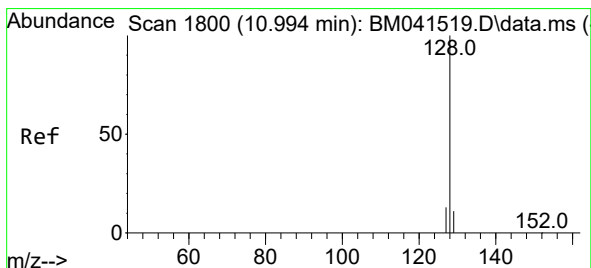
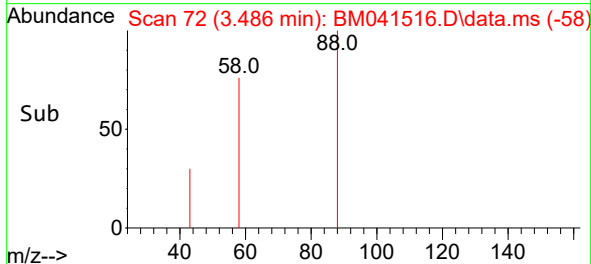
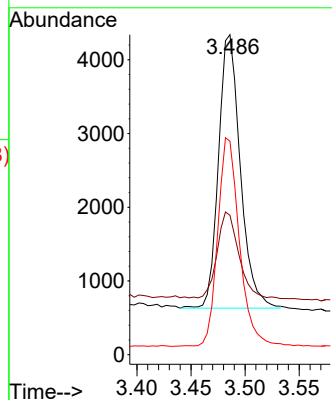
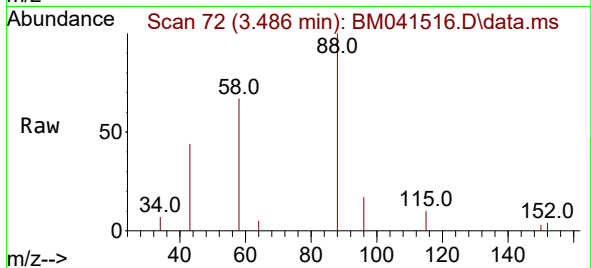




#2  
1,4-Dioxane  
Concen: 0.407 ng/ul  
RT: 3.486 min Scan# 72  
Delta R.T. 0.000 min  
Lab File: BM041516.D  
Acq: 28 Aug 2023 10:52

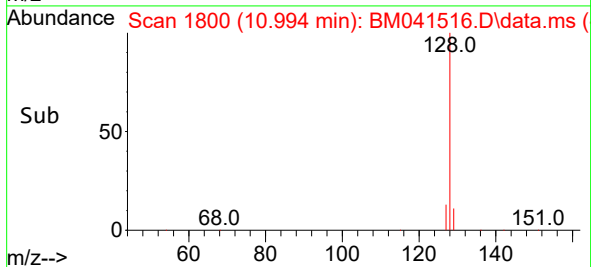
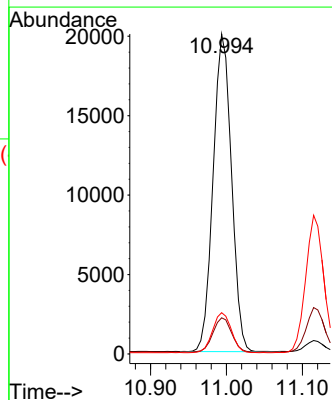
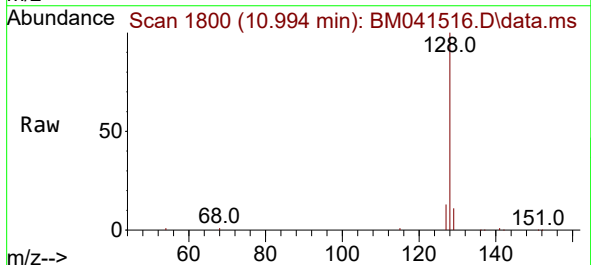
Instrument :  
BNA\_M  
ClientSampleId :  
SSTD0.4059

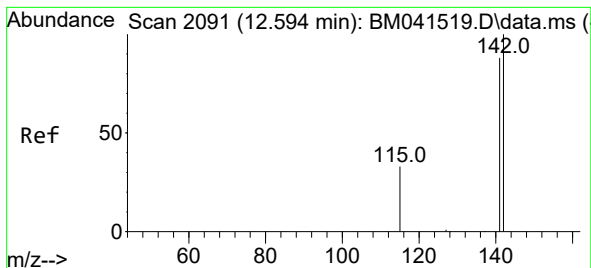
Tgt Ion: 88 Resp: 5219  
Ion Ratio Lower Upper  
88 100  
43 43.6 30.6 46.0  
58 66.7 49.3 73.9



#5  
Naphthalene  
Concen: 0.433 ng/ul  
RT: 10.994 min Scan# 1800  
Delta R.T. 0.000 min  
Lab File: BM041516.D  
Acq: 28 Aug 2023 10:52

Tgt Ion: 128 Resp: 33546  
Ion Ratio Lower Upper  
128 100  
129 11.3 8.9 13.3  
127 12.9 10.6 15.8

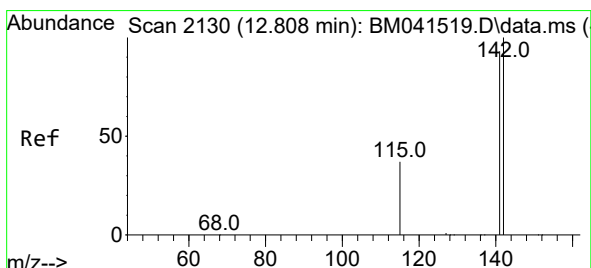
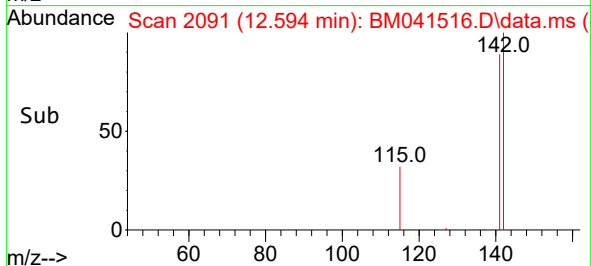
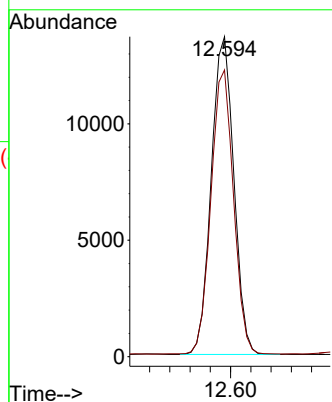
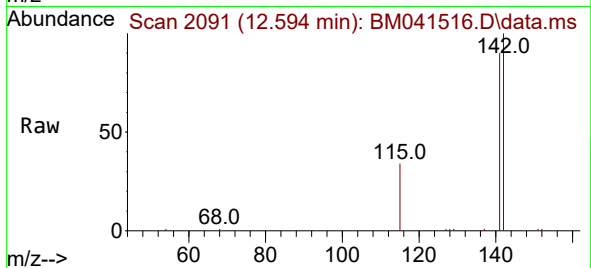




#7  
2-Methylnaphthalene  
Concen: 0.454 ng/ul  
RT: 12.594 min Scan# 2091  
Delta R.T. 0.000 min  
Lab File: BM041516.D  
Acq: 28 Aug 2023 10:52

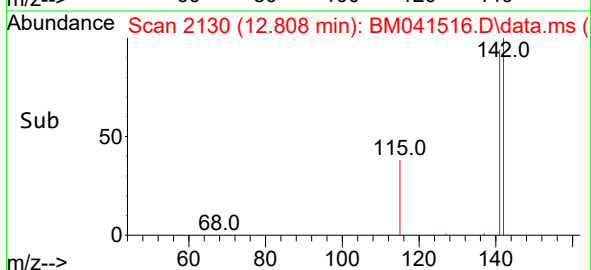
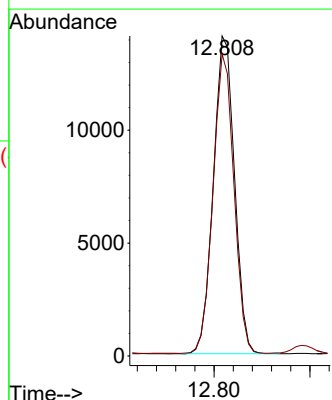
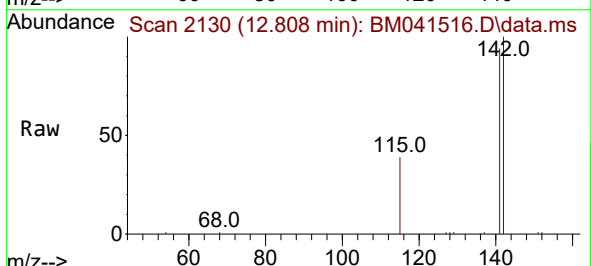
Instrument :  
BNA\_M  
ClientSampleId :  
SSTD0.4059

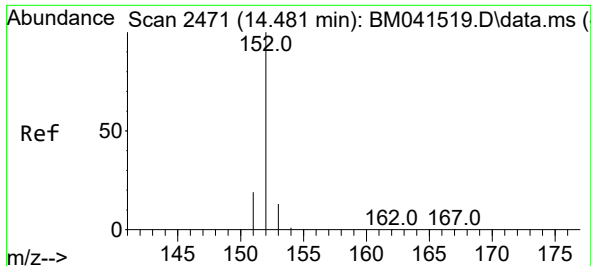
Tgt Ion:142 Resp: 21122  
Ion Ratio Lower Upper  
142 100  
141 89.3 71.0 106.6



#8  
1-Methylnaphthalene  
Concen: 0.455 ng/ul  
RT: 12.808 min Scan# 2130  
Delta R.T. 0.000 min  
Lab File: BM041516.D  
Acq: 28 Aug 2023 10:52

Tgt Ion:142 Resp: 21490  
Ion Ratio Lower Upper  
142 100  
141 93.2 73.9 110.9

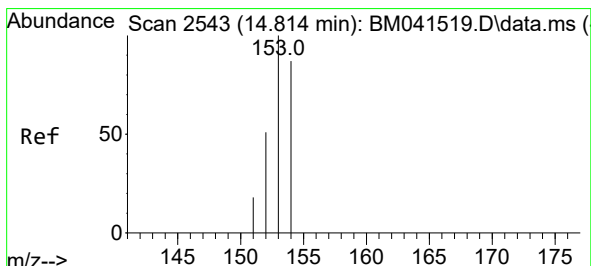
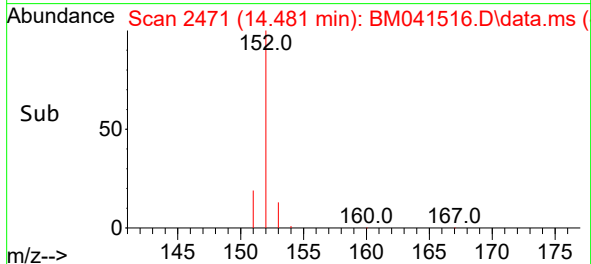
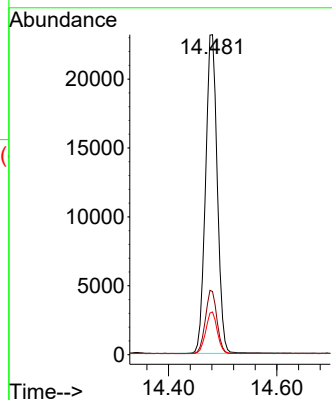
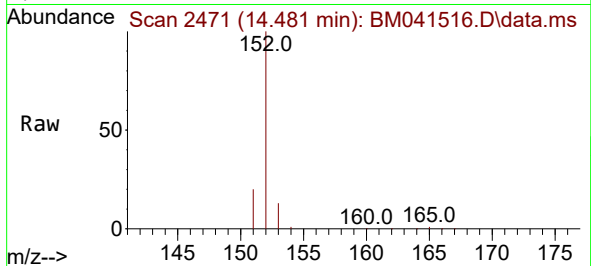




#10  
Acenaphthylene  
Concen: 0.444 ng/ul  
RT: 14.481 min Scan# 2471  
Delta R.T. 0.000 min  
Lab File: BM041516.D  
Acq: 28 Aug 2023 10:52

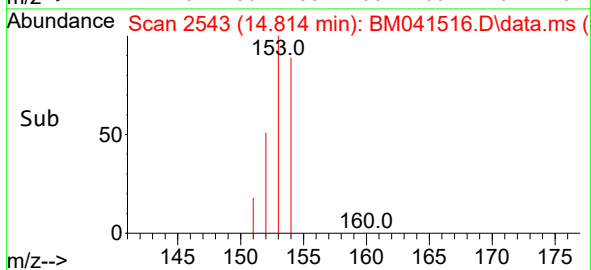
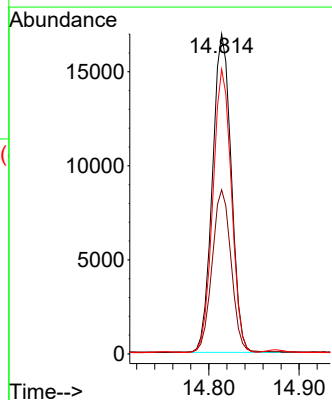
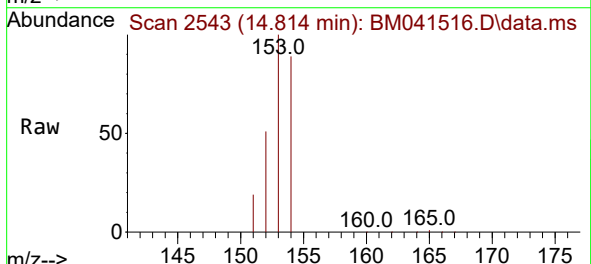
Instrument :  
BNA\_M  
ClientSampleId :  
SSTD0.4059

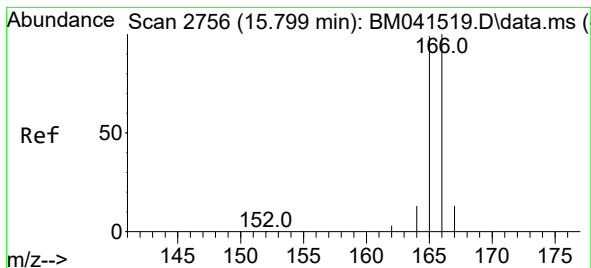
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 34701 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 19.7  | 15.7  | 23.5  |
| 153       | 13.4  | 10.5  | 15.7  |



#11  
Acenaphthene  
Concen: 0.449 ng/ul  
RT: 14.814 min Scan# 2543  
Delta R.T. 0.000 min  
Lab File: BM041516.D  
Acq: 28 Aug 2023 10:52

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 24435 |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 51.3  | 41.1  | 61.7  |
| 154       | 89.0  | 69.4  | 104.0 |





#12

Fluorene

Concen: 0.457 ng/ul

RT: 15.800 min Scan# 21

Delta R.T. 0.000 min

Lab File: BM041516.D

Acq: 28 Aug 2023 10:52

Instrument :

BNA\_M

ClientSampleId :

SSTD0.4059

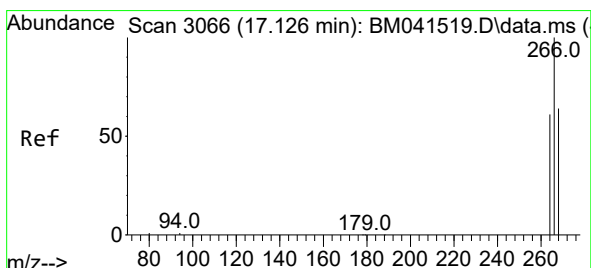
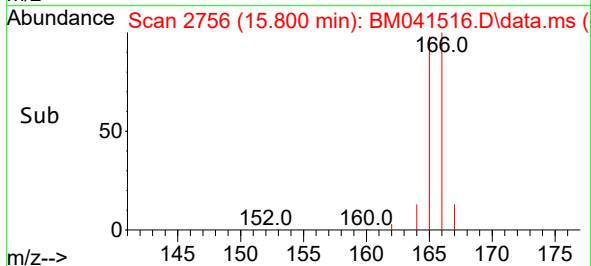
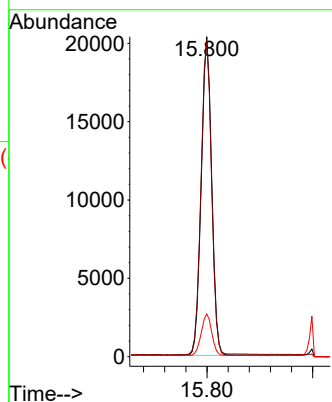
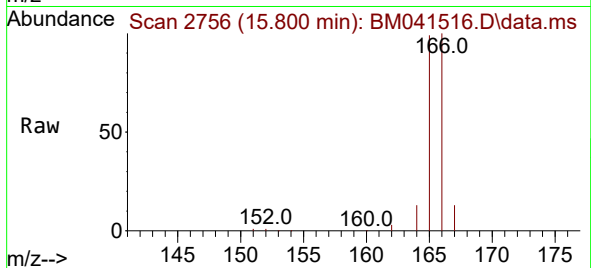
Tgt Ion:166 Resp: 27830

Ion Ratio Lower Upper

166 100

165 98.7 79.2 118.8

167 13.3 10.8 16.2



#14

Pentachlorophenol

Concen: 0.701 ng/ul

RT: 17.126 min Scan# 3066

Delta R.T. 0.000 min

Lab File: BM041516.D

Acq: 28 Aug 2023 10:52

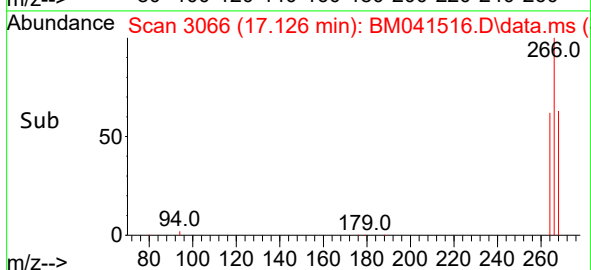
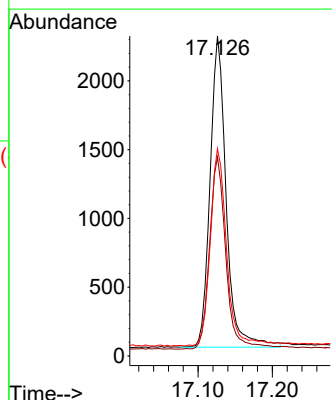
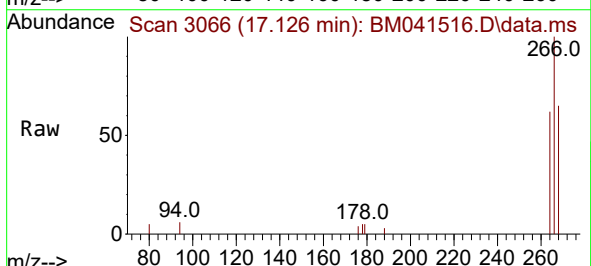
Tgt Ion:266 Resp: 3411

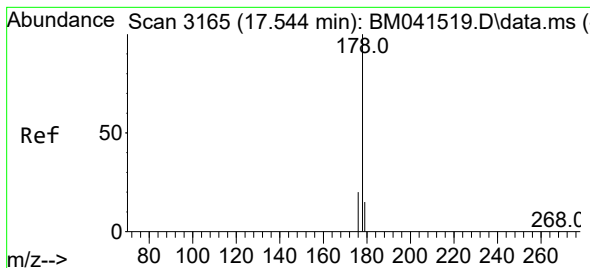
Ion Ratio Lower Upper

266 100

264 62.4 50.0 75.0

268 64.4 51.4 77.0





#15

Phenanthrene

Concen: 0.444 ng/ul

RT: 17.548 min Scan# 3165

Delta R.T. 0.004 min

Lab File: BM041516.D

Acq: 28 Aug 2023 10:52

Instrument :

BNA\_M

ClientSampleId :

SSTD0.4059

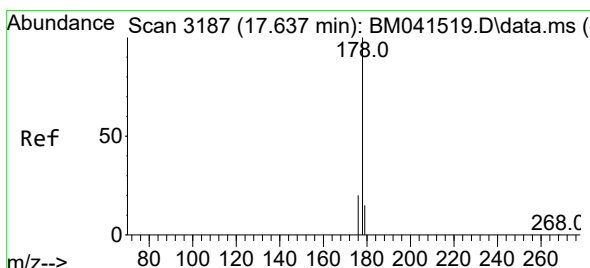
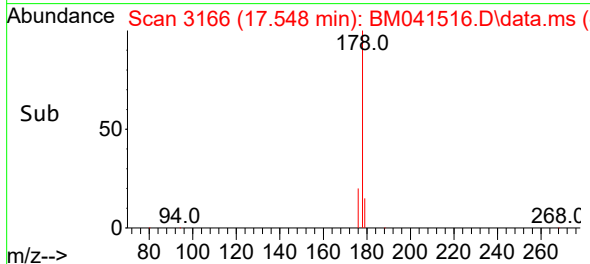
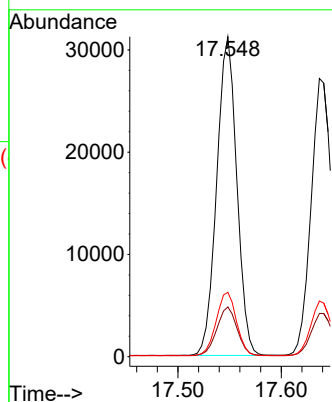
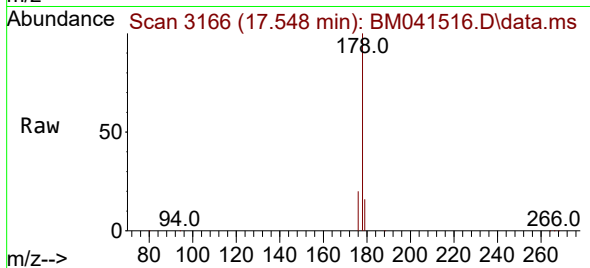
Tgt Ion:178 Resp: 42089

Ion Ratio Lower Upper

178 100

179 15.6 12.6 18.8

176 20.1 16.3 24.5



#16

Anthracene

Concen: 0.450 ng/ul

RT: 17.637 min Scan# 3187

Delta R.T. 0.000 min

Lab File: BM041516.D

Acq: 28 Aug 2023 10:52

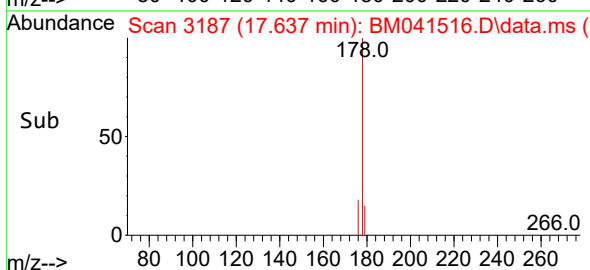
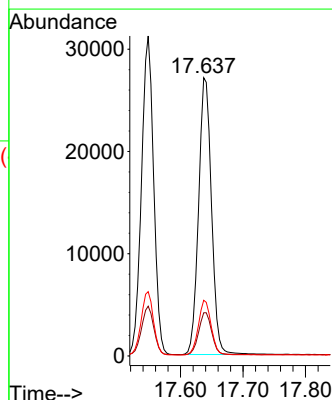
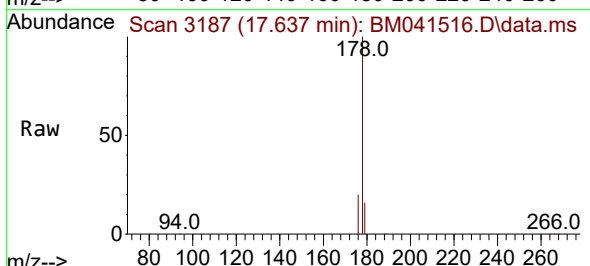
Tgt Ion:178 Resp: 38818

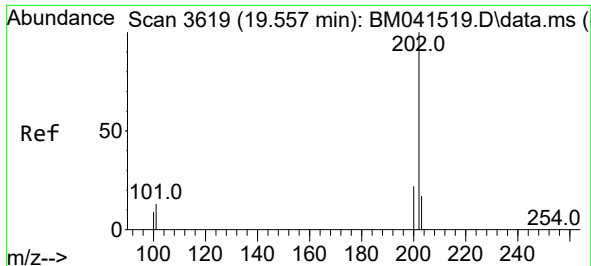
Ion Ratio Lower Upper

178 100

179 15.5 12.6 19.0

176 20.0 15.9 23.9

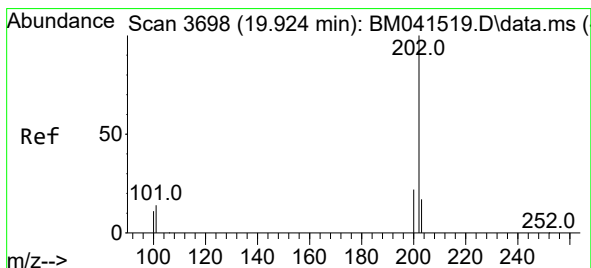
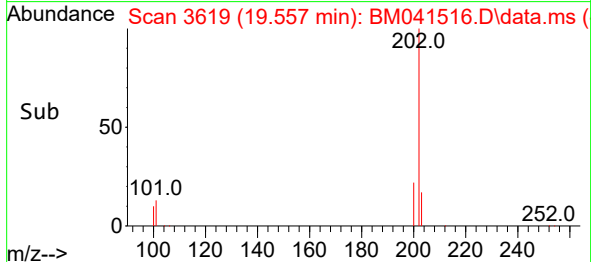
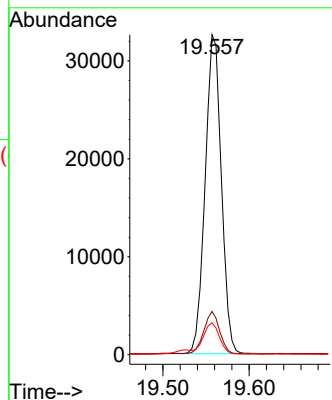
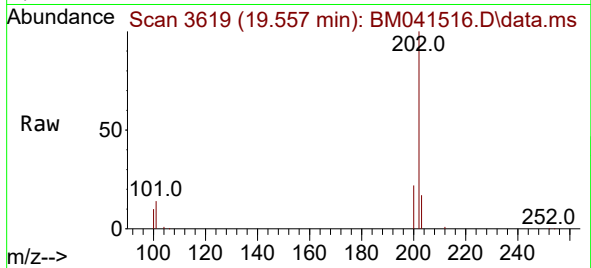




#19  
Fluoranthene  
Concen: 0.453 ng/ul  
RT: 19.557 min Scan# 3619  
Delta R.T. 0.000 min  
Lab File: BM041516.D  
Acq: 28 Aug 2023 10:52

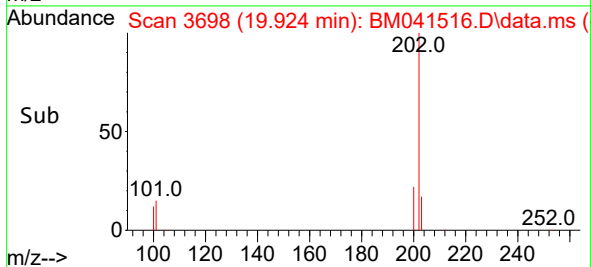
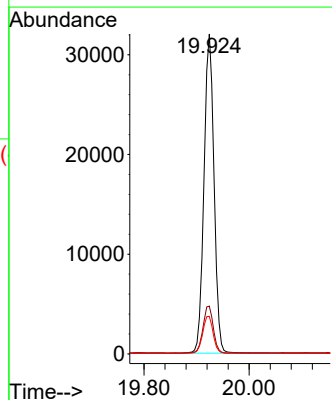
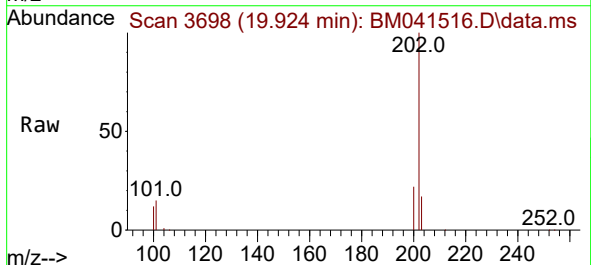
Instrument :  
BNA\_M  
ClientSampleId :  
SSTD0.4059

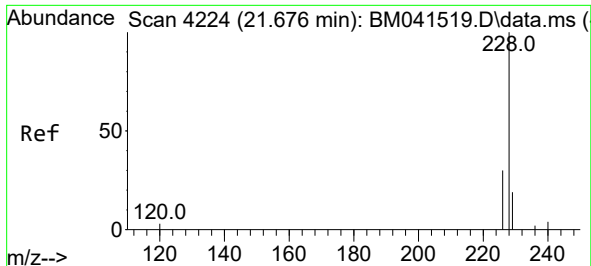
Tgt Ion:202 Resp: 42442  
Ion Ratio Lower Upper  
202 100  
101 13.5 10.5 15.7  
100 9.9 7.8 11.6



#20  
Pyrene  
Concen: 0.447 ng/ul  
RT: 19.924 min Scan# 3698  
Delta R.T. 0.000 min  
Lab File: BM041516.D  
Acq: 28 Aug 2023 10:52

Tgt Ion:202 Resp: 42269  
Ion Ratio Lower Upper  
202 100  
101 15.0 11.6 17.4  
100 11.7 9.1 13.7

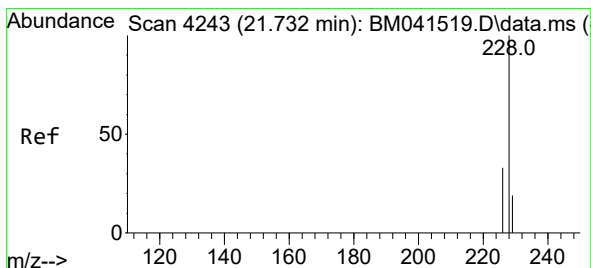
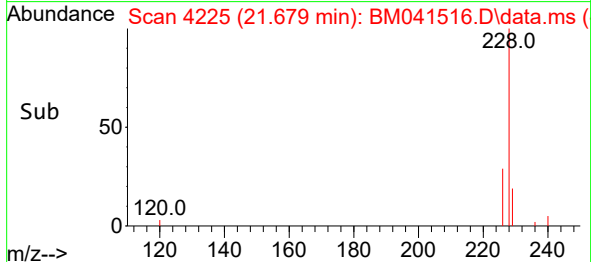
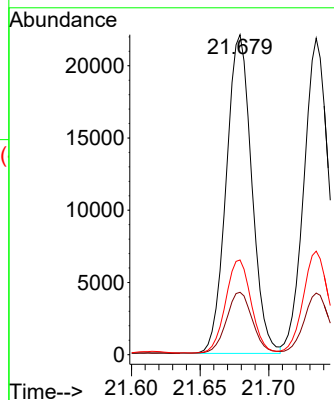
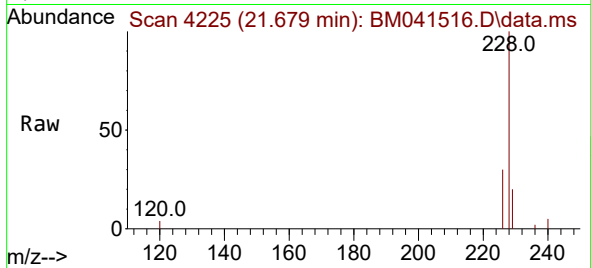




#21  
Benzo(a)anthracene  
Concen: 0.429 ng/ul  
RT: 21.679 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: BM041516.D  
Acq: 28 Aug 2023 10:52

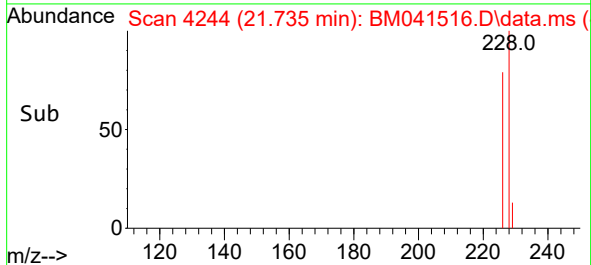
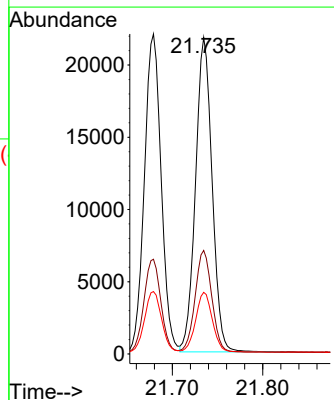
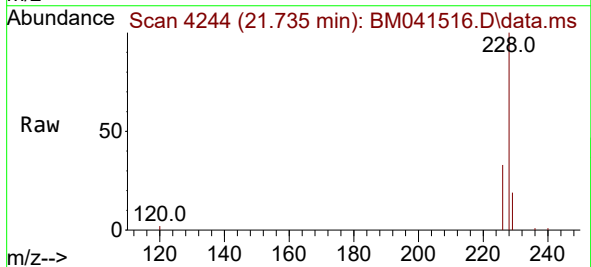
Instrument :  
BNA\_M  
ClientSampleId :  
SSTD0.4059

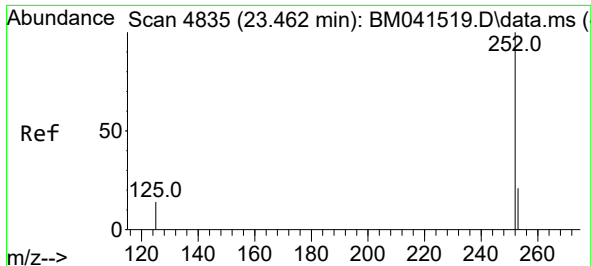
Tgt Ion:228 Resp: 28530  
Ion Ratio Lower Upper  
228 100  
229 19.5 15.8 23.6  
226 29.6 24.0 36.0



#22  
Chrysene  
Concen: 0.386 ng/ul  
RT: 21.735 min Scan# 4244  
Delta R.T. 0.003 min  
Lab File: BM041516.D  
Acq: 28 Aug 2023 10:52

Tgt Ion:228 Resp: 27733  
Ion Ratio Lower Upper  
228 100  
226 32.7 26.3 39.5  
229 19.5 15.4 23.2

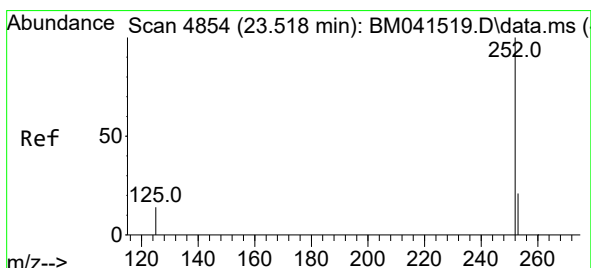
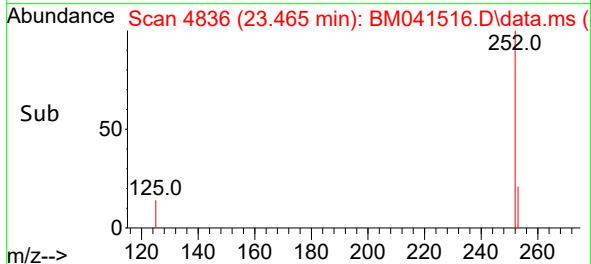
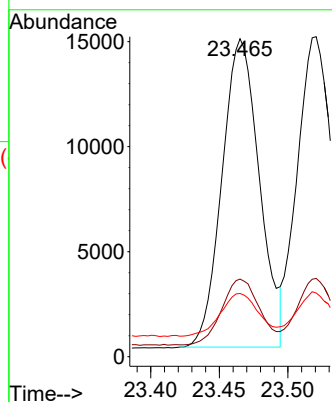
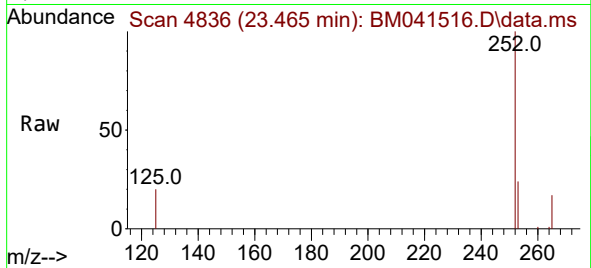




#24  
Benzo(b)fluoranthene  
Concen: 0.354 ng/ul  
RT: 23.465 min Scan# 4835  
Delta R.T. 0.003 min  
Lab File: BM041516.D  
Acq: 28 Aug 2023 10:52

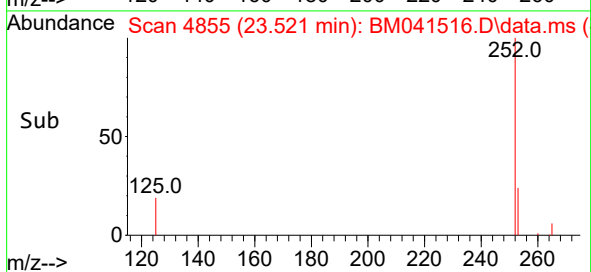
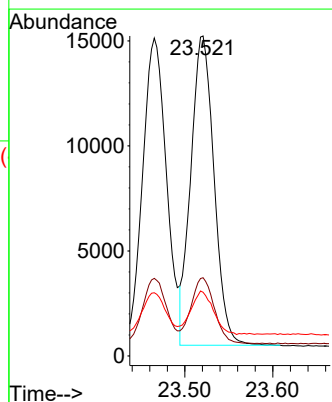
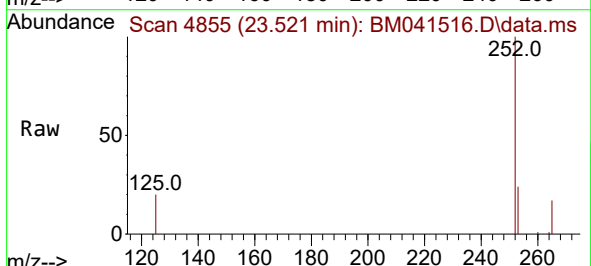
Instrument :  
BNA\_M  
ClientSampleId :  
SSTD0.4059

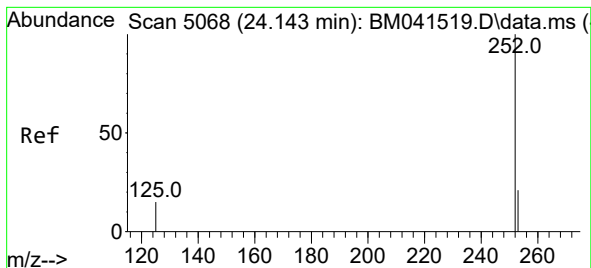
Tgt Ion:252 Resp: 27898  
Ion Ratio Lower Upper  
252 100  
253 24.4 0.0 47.0  
125 19.9 0.0 37.2



#25  
Benzo(k)fluoranthene  
Concen: 0.343 ng/ul  
RT: 23.521 min Scan# 4855  
Delta R.T. 0.003 min  
Lab File: BM041516.D  
Acq: 28 Aug 2023 10:52

Tgt Ion:252 Resp: 27062  
Ion Ratio Lower Upper  
252 100  
253 24.5 19.3 28.9  
125 19.9 15.0 22.4





#26

Benzo(a)pyrene

Concen: 0.382 ng/ul

RT: 24.146 min Scan# 5068

Delta R.T. 0.003 min

Lab File: BM041516.D

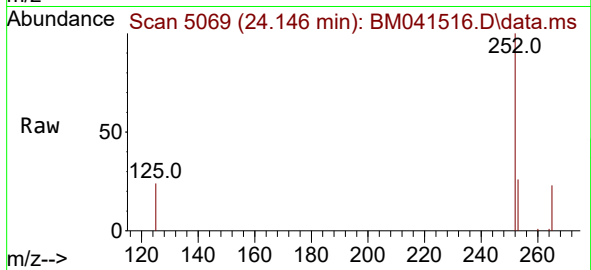
Acq: 28 Aug 2023 10:52

Instrument :

BNA\_M

ClientSampleId :

SSTD0.4059



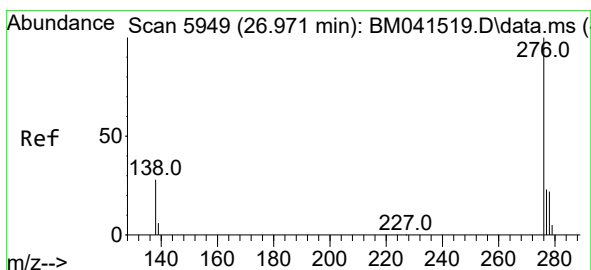
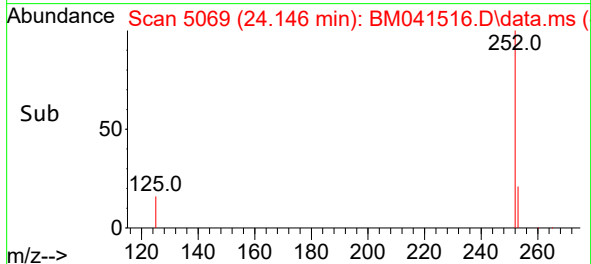
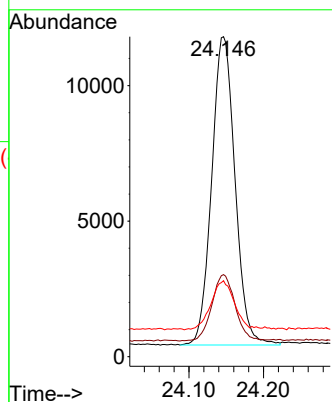
Tgt Ion:252 Resp: 24758

Ion Ratio Lower Upper

252 100

253 25.7 20.0 30.0

125 23.8 17.1 25.7



#27

Indeno(1,2,3-cd)pyrene

Concen: 0.397 ng/ul

RT: 26.975 min Scan# 5950

Delta R.T. 0.003 min

Lab File: BM041516.D

Acq: 28 Aug 2023 10:52

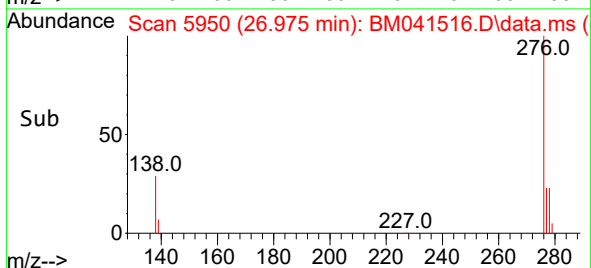
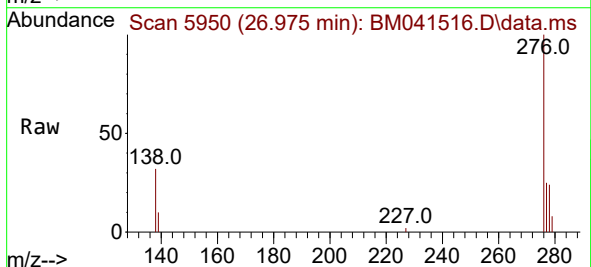
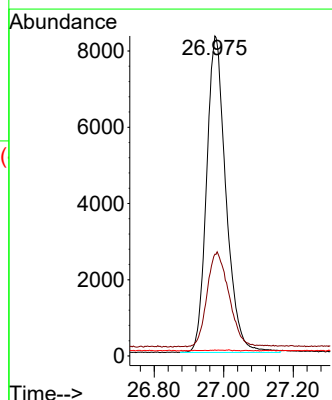
Tgt Ion:276 Resp: 32127

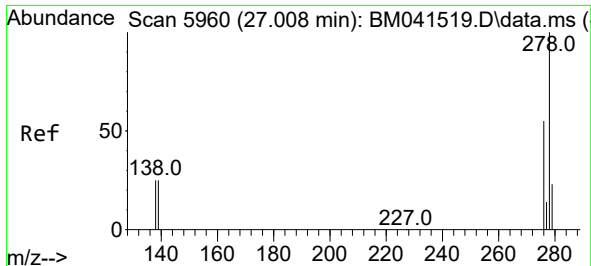
Ion Ratio Lower Upper

276 100

138 34.1 27.3 40.9

227 0.0 0.0 0.0

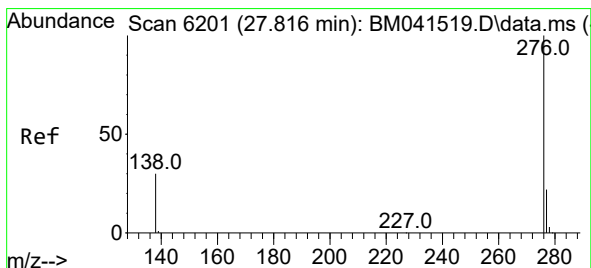
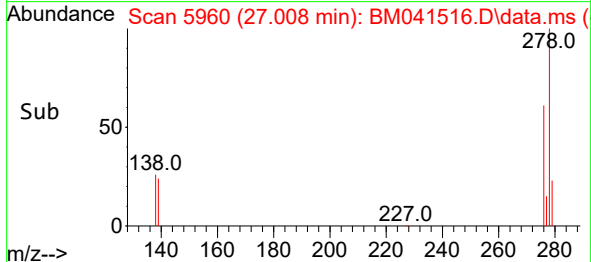
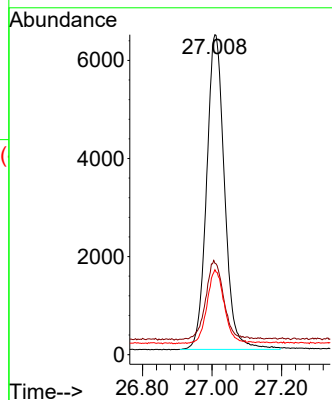
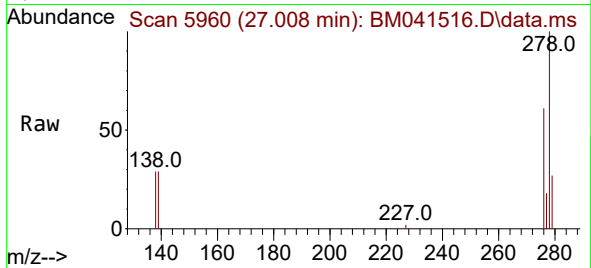




#28  
Dibenzo(a,h)anthracene  
Concen: 0.371 ng/ul  
RT: 27.008 min Scan# 5960  
Delta R.T. 0.000 min  
Lab File: BM041516.D  
Acq: 28 Aug 2023 10:52

Instrument :  
BNA\_M  
ClientSampleId :  
SSTD0.4059

Tgt Ion:278 Resp: 23022  
Ion Ratio Lower Upper  
278 100  
139 28.5 22.2 33.2  
279 26.5 20.4 30.6



#29  
Benzo(g,h,i)perylene  
Concen: 0.377 ng/ul  
RT: 27.823 min Scan# 6203  
Delta R.T. 0.007 min  
Lab File: BM041516.D  
Acq: 28 Aug 2023 10:52

Tgt Ion:276 Resp: 26920  
Ion Ratio Lower Upper  
276 100  
138 32.3 25.9 38.9  
277 24.3 19.1 28.7

