

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM021623\  
 Data File : BM038771.D  
 Acq On : 16 Feb 2023 23:49  
 Operator : CG/JU  
 Sample : 01529-08DL 5X  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SB-05-5.0-7.0DL

Quant Time: Feb 17 06:14:22 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM020123.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Feb 17 06:10:11 2023  
 Response via : Initial Calibration

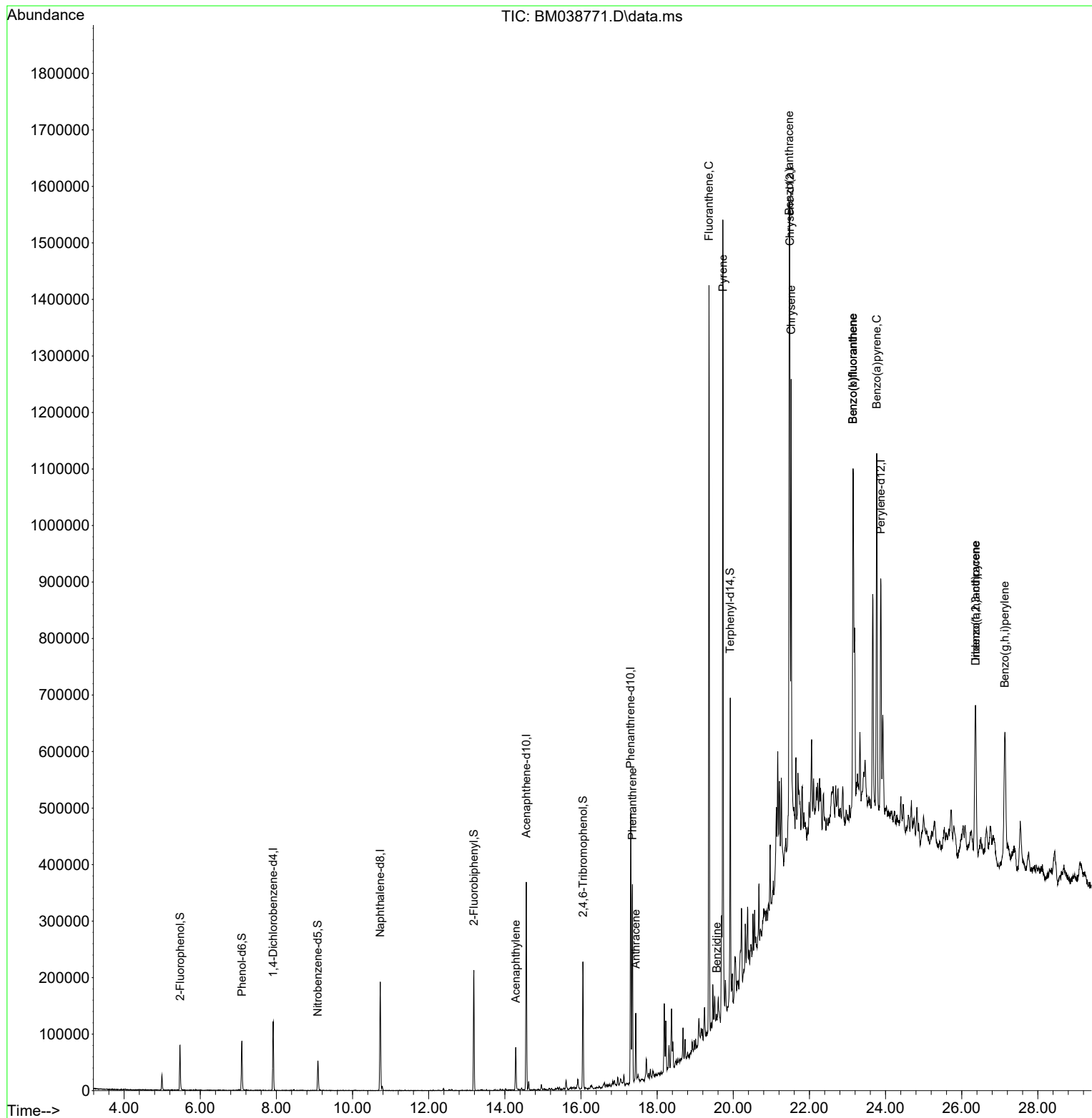
| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.916  | 152  | 37068    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.728 | 136  | 157242   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.563 | 164  | 119408   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.304 | 188  | 288562   | 20.000 | ng    | # 0.00   |
| 76) Chrysene-d12            | 21.486 | 240  | 318100   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 23.874 | 264  | 307726   | 20.000 | ng    | 0.00     |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.469  | 112  | 39482    | 20.865 | ng    | 0.00     |
| 7) Phenol-d6                | 7.092  | 99   | 52799    | 24.464 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.086  | 82   | 30983    | 11.192 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.051 | 330  | 37957    | 23.387 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.186 | 172  | 104783   | 11.172 | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.921 | 244  | 209959   | 11.648 | ng    | 0.00     |
| Target Compounds            |        |      |          |        |       |          |
|                             |        |      |          |        |       | Qvalue   |
| 49) Acenaphthylene          | 14.286 | 152  | 58966    | 5.030  | ng    | 97       |
| 71) Phenanthrene            | 17.351 | 178  | 205716   | 12.006 | ng    | 99       |
| 72) Anthracene              | 17.439 | 178  | 70001    | 3.994  | ng    | 95       |
| 75) Fluoranthene            | 19.362 | 202  | 713343   | 39.653 | ng    | 98       |
| 77) Benzidine               | 19.568 | 184  | 1246     | 3.236  | ng    | # 1      |
| 78) Pyrene                  | 19.727 | 202  | 762653   | 31.141 | ng    | 99       |
| 81) Benzo(a)anthracene      | 21.468 | 228  | 422040   | 18.756 | ng    | 97       |
| 83) Chrysene                | 21.521 | 228  | 351496   | 16.213 | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene  | 26.362 | 276  | 264747   | 10.923 | ng    | 96       |
| 88) Benzo(b)fluoranthene    | 23.144 | 252  | 534223   | 28.984 | ng    | 97       |
| 89) Benzo(k)fluoranthene    | 23.144 | 252  | 534223   | 28.543 | ng    | 96       |
| 90) Benzo(a)pyrene          | 23.768 | 252  | 406255   | 22.288 | ng    | 98       |
| 91) Dibenzo(a,h)anthracene  | 26.368 | 278  | 65383    | 3.206  | ng    | # 75     |
| 92) Benzo(g,h,i)perylene    | 27.132 | 276  | 282694   | 13.714 | ng    | 98       |
| -----                       |        |      |          |        |       |          |

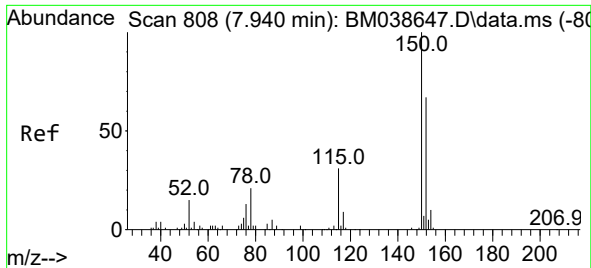
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM021623\  
Data File : BM038771.D  
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Sample : 01529-08DL 5X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
SB-05-5.0-7.0DL

Quant Time: Feb 17 06:14:22 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM020123.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Feb 17 06:10:11 2023  
Response via : Initial Calibration

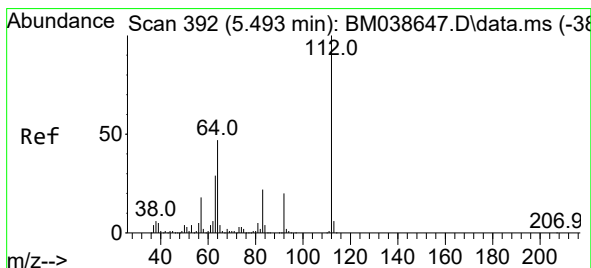
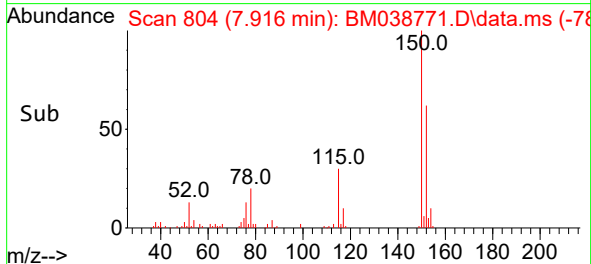
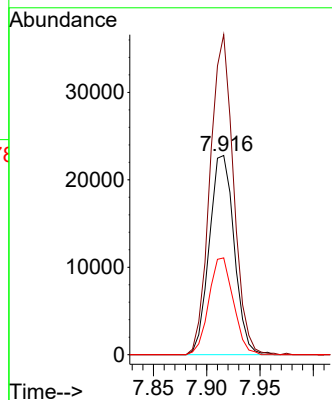
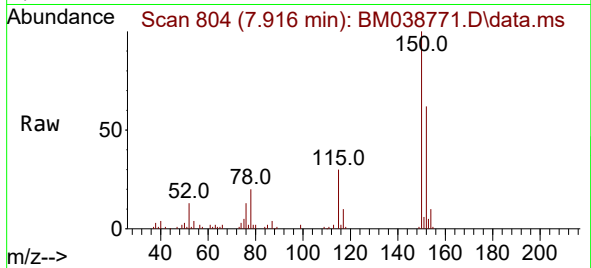




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.916 min Scan# 80  
Delta R.T. -0.000 min  
Lab File: BM038771.D  
Acq: 16 Feb 2023 23:49

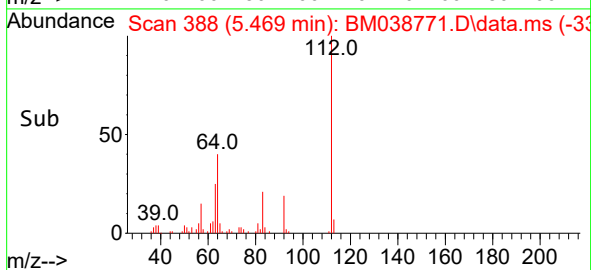
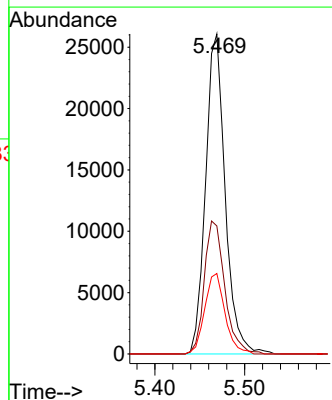
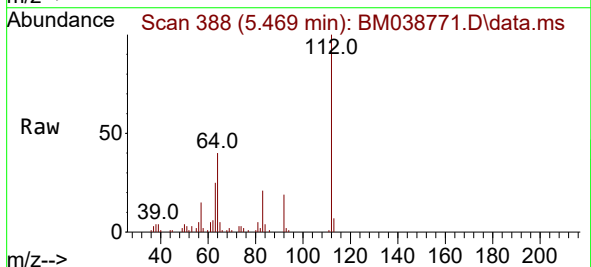
Instrument :  
BNA\_M  
ClientSampleId :  
SB-05-5.0-7.0DL

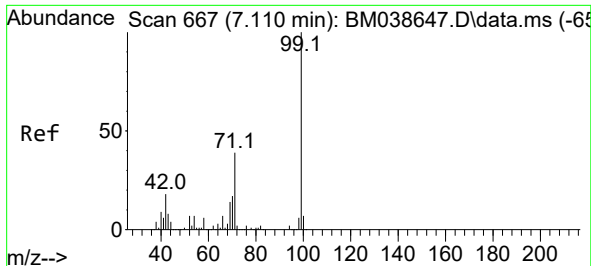
Tgt Ion:152 Resp: 37068  
Ion Ratio Lower Upper  
152 100  
150 160.6 119.5 179.3  
115 48.6 37.6 56.4



#5  
2-Fluorophenol  
Concen: 20.865 ng  
RT: 5.469 min Scan# 388  
Delta R.T. 0.006 min  
Lab File: BM038771.D  
Acq: 16 Feb 2023 23:49

Tgt Ion:112 Resp: 39482  
Ion Ratio Lower Upper  
112 100  
64 40.0 37.9 56.9  
63 25.2 23.3 34.9

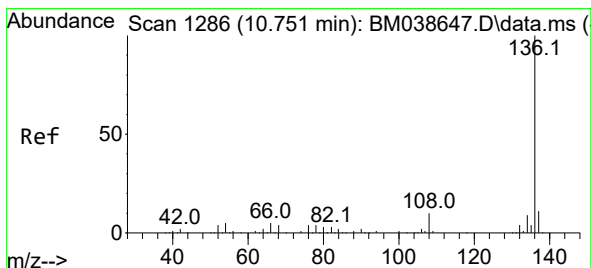
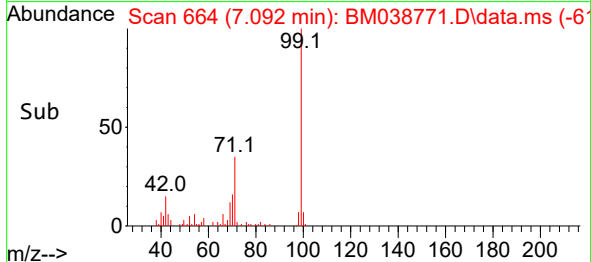
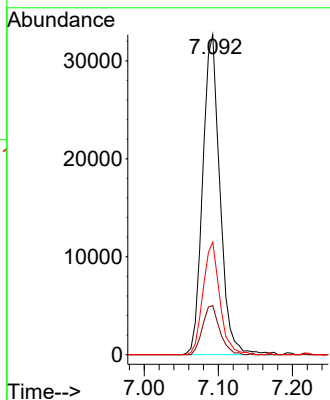
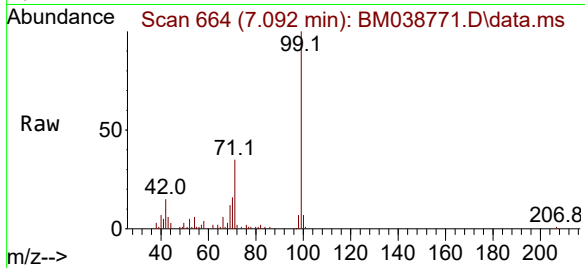




#7  
Phenol-d6  
Concen: 24.464 ng  
RT: 7.092 min Scan# 60  
Delta R.T. 0.006 min  
Lab File: BM038771.D  
Acq: 16 Feb 2023 23:49

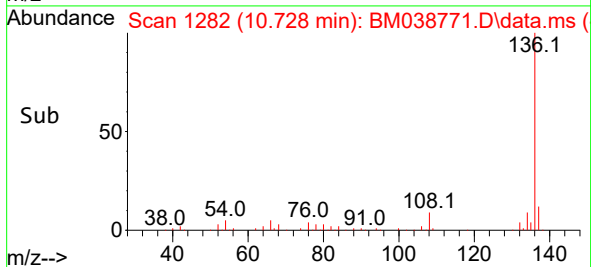
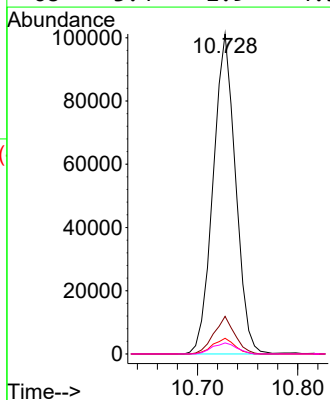
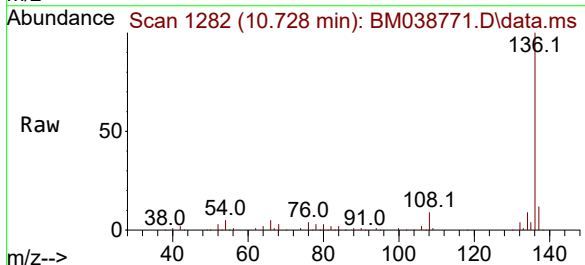
Instrument :  
BNA\_M  
ClientSampleId :  
SB-05-5.0-7.0DL

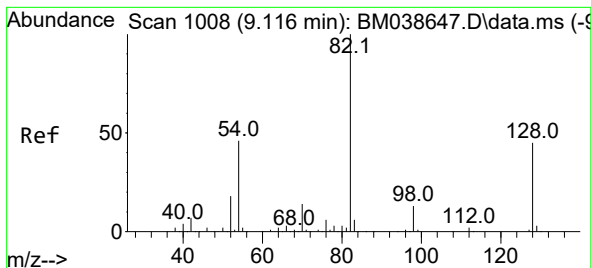
Tgt Ion: 99 Resp: 52799  
Ion Ratio Lower Upper  
99 100  
42 15.3 14.6 22.0  
71 35.2 31.0 46.4



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.728 min Scan# 1282  
Delta R.T. -0.000 min  
Lab File: BM038771.D  
Acq: 16 Feb 2023 23:49

Tgt Ion: 136 Resp: 157242  
Ion Ratio Lower Upper  
136 100  
137 11.8 8.8 13.2  
54 4.9 4.2 6.4  
68 3.4 2.9 4.3





#23

Nitrobenzene-d5

Concen: 11.192 ng

RT: 9.086 min Scan# 1003

Delta R.T. -0.006 min

Lab File: BM038771.D

Acq: 16 Feb 2023 23:49

Instrument :

BNA\_M

ClientSampleId :

SB-05-5.0-7.0DL

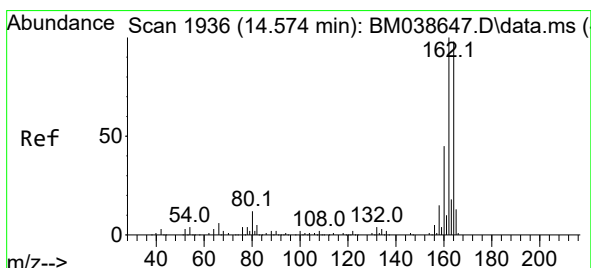
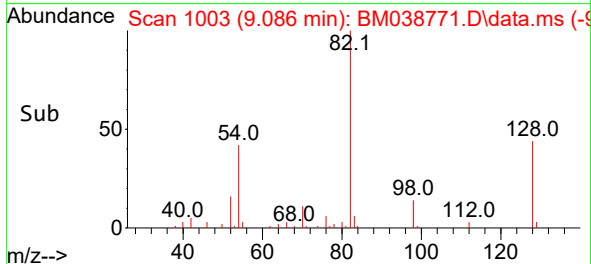
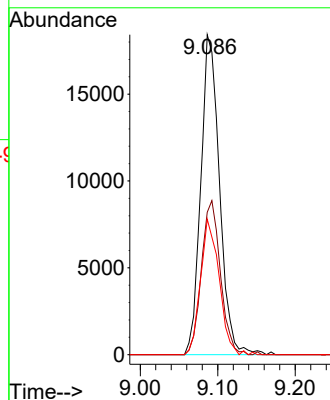
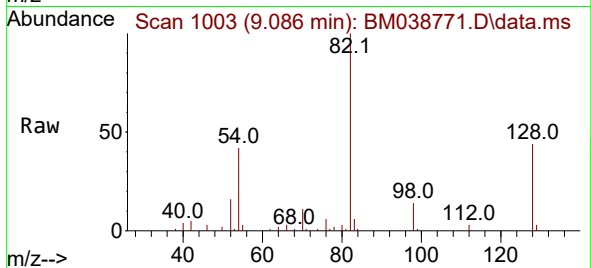
Tgt Ion: 82 Resp: 30983

Ion Ratio Lower Upper

82 100

128 44.5 36.0 54.0

54 42.3 36.8 55.2



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.563 min Scan# 1934

Delta R.T. -0.000 min

Lab File: BM038771.D

Acq: 16 Feb 2023 23:49

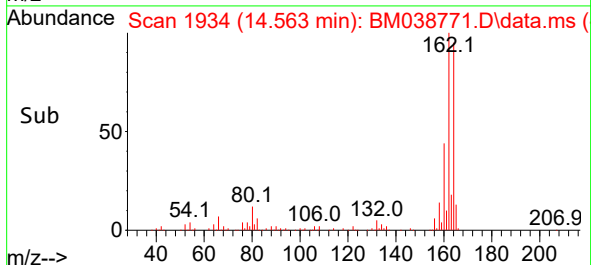
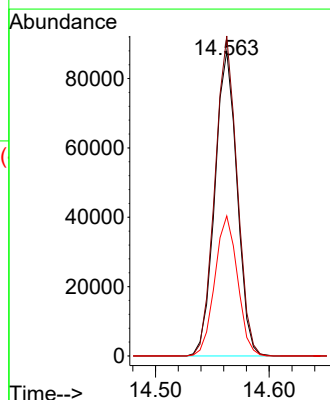
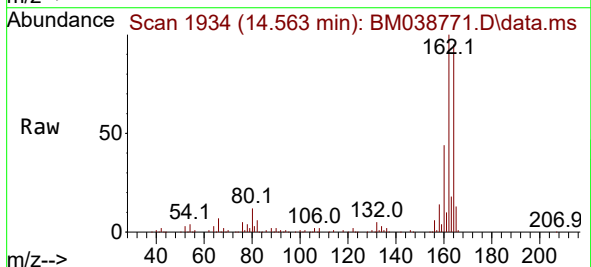
Tgt Ion:164 Resp: 119408

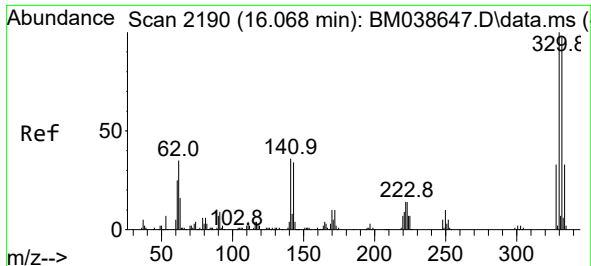
Ion Ratio Lower Upper

164 100

162 105.0 81.4 122.0

160 45.9 36.5 54.7

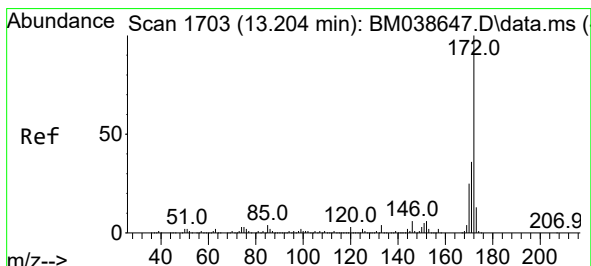
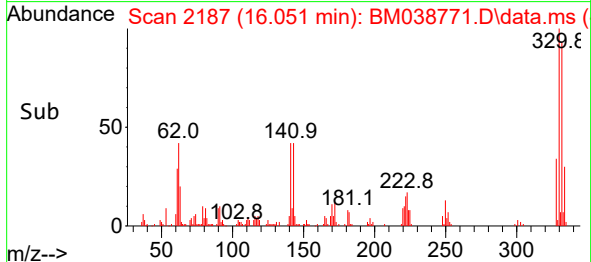
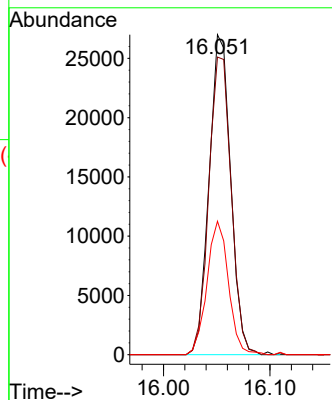
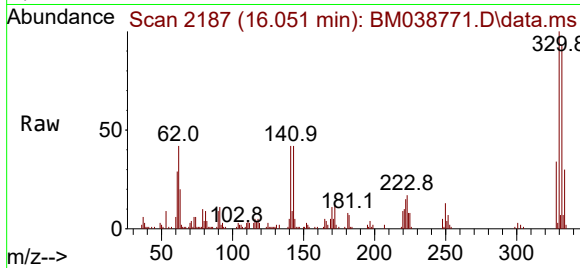




#42  
2,4,6-Tribromophenol  
Concen: 23.387 ng  
RT: 16.051 min Scan# 2190  
Delta R.T. -0.000 min  
Lab File: BM038771.D  
Acq: 16 Feb 2023 23:49

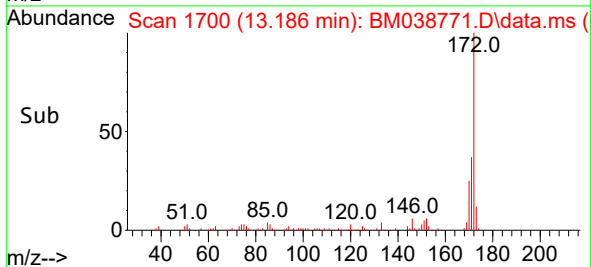
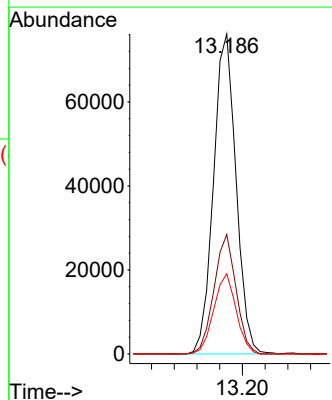
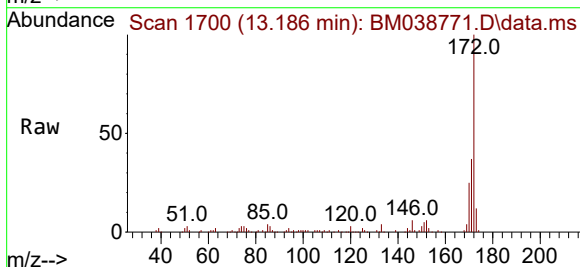
Instrument :  
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ClientSampleId :  
SB-05-5.0-7.0DL

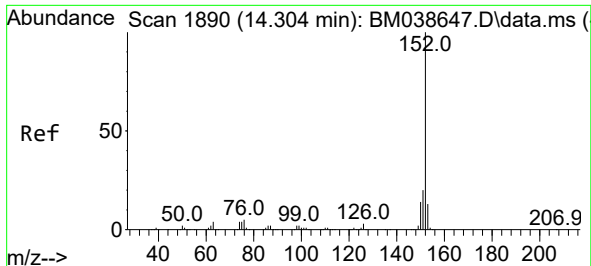
Tgt Ion:330 Resp: 37957  
Ion Ratio Lower Upper  
330 100  
332 96.5 77.8 116.6  
141 41.6 31.0 46.6



#45  
2-Fluorobiphenyl  
Concen: 11.172 ng  
RT: 13.186 min Scan# 1700  
Delta R.T. -0.000 min  
Lab File: BM038771.D  
Acq: 16 Feb 2023 23:49

Tgt Ion:172 Resp: 104783  
Ion Ratio Lower Upper  
172 100  
171 37.3 28.7 43.1  
170 25.0 20.0 30.0

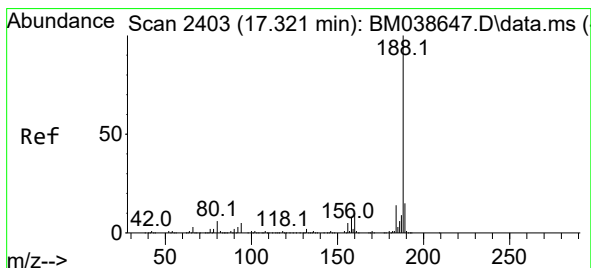
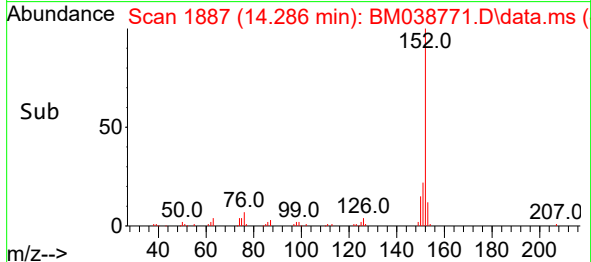
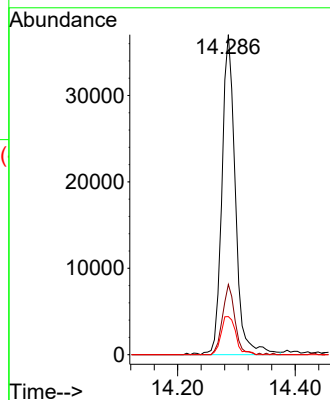
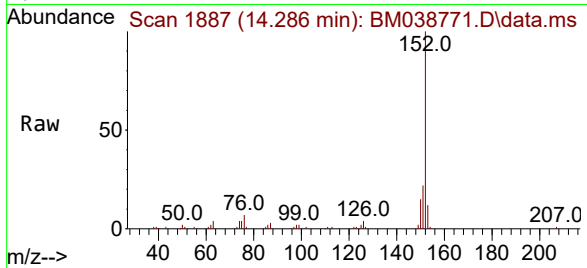




#49  
Acenaphthylene  
Concen: 5.030 ng  
RT: 14.286 min Scan# 1887  
Delta R.T. -0.000 min  
Lab File: BM038771.D  
Acq: 16 Feb 2023 23:49

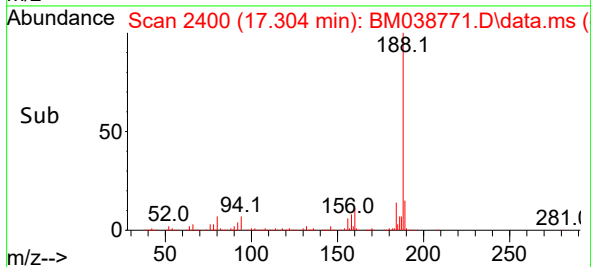
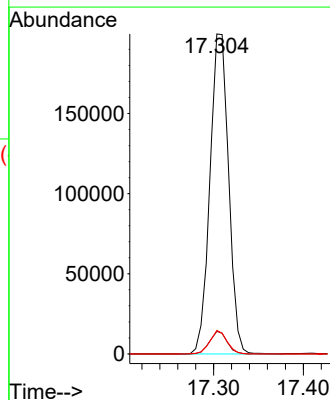
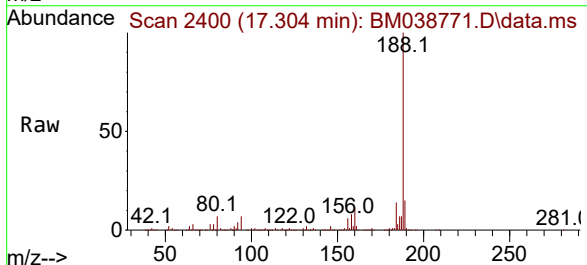
Instrument :  
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ClientSampleId :  
SB-05-5.0-7.0DL

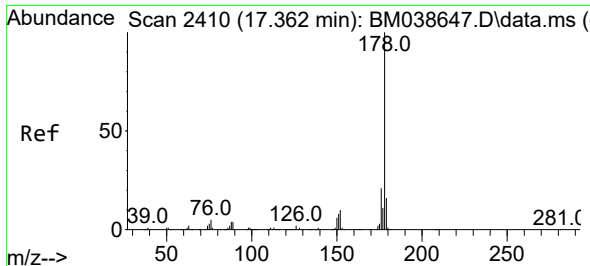
Tgt Ion:152 Resp: 58966  
Ion Ratio Lower Upper  
152 100  
151 21.9 16.1 24.1  
153 11.9 10.0 15.0



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.304 min Scan# 2400  
Delta R.T. -0.000 min  
Lab File: BM038771.D  
Acq: 16 Feb 2023 23:49

Tgt Ion:188 Resp: 288562  
Ion Ratio Lower Upper  
188 100  
94 7.1 4.2 6.4#  
80 7.4 4.6 7.0#

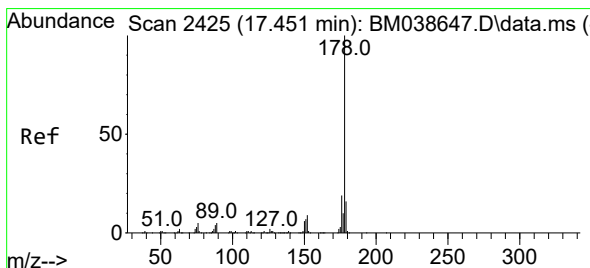
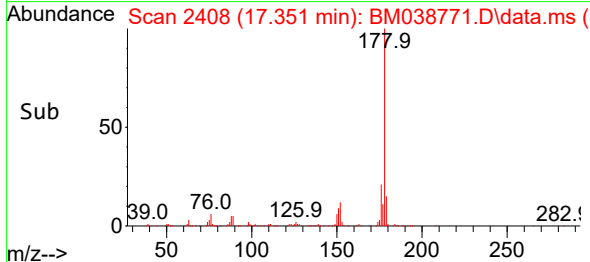
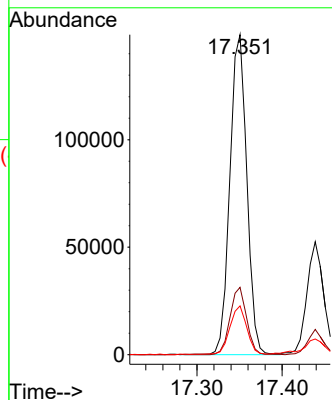
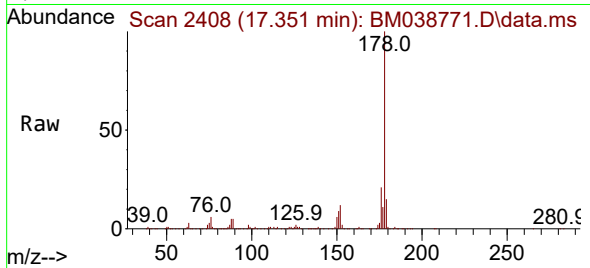




#71  
Phenanthrene  
Concen: 12.006 ng  
RT: 17.351 min Scan# 2410  
Delta R.T. 0.006 min  
Lab File: BM038771.D  
Acq: 16 Feb 2023 23:49

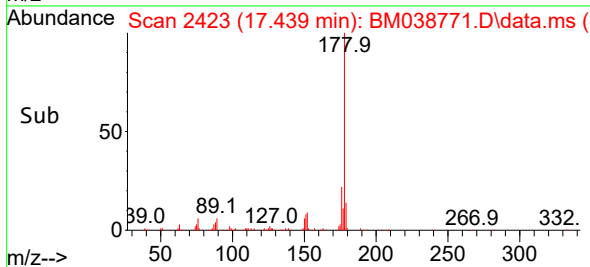
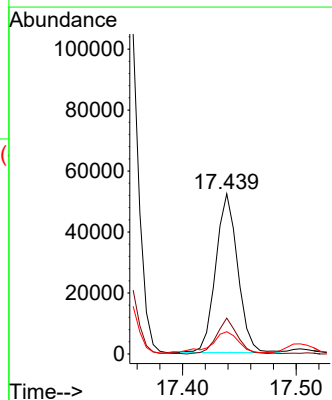
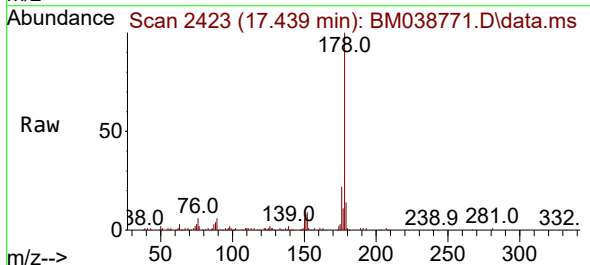
Instrument :  
BNA\_M  
ClientSampleId :  
SB-05-5.0-7.0DL

Tgt Ion:178 Resp: 205716  
Ion Ratio Lower Upper  
178 100  
176 21.1 16.7 25.1  
179 15.3 12.5 18.7

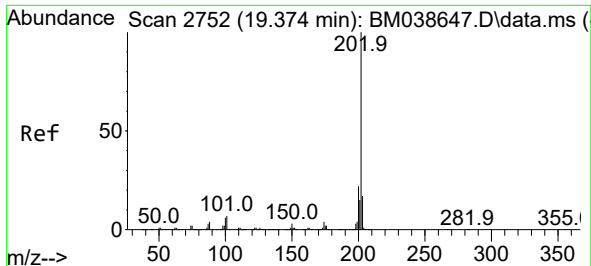


#72  
Anthracene  
Concen: 3.994 ng  
RT: 17.439 min Scan# 2423  
Delta R.T. -0.000 min  
Lab File: BM038771.D  
Acq: 16 Feb 2023 23:49

Tgt Ion:178 Resp: 70001  
Ion Ratio Lower Upper  
178 100  
176 22.4 15.6 23.4  
179 13.8 12.4 18.6



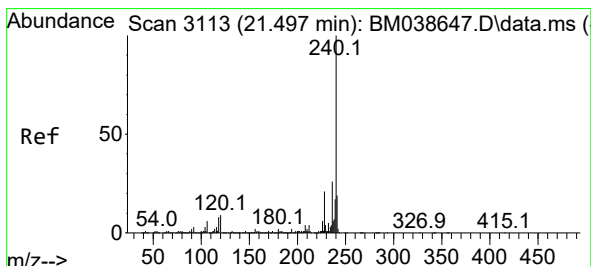
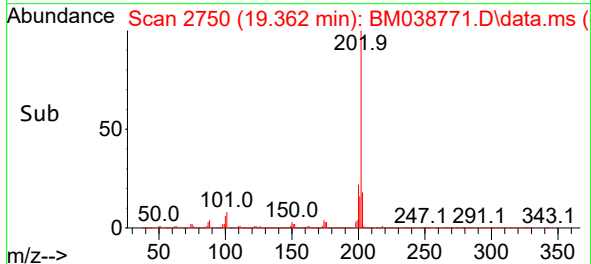
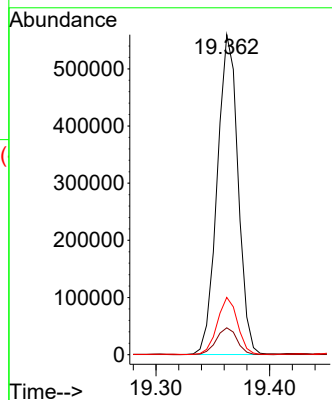
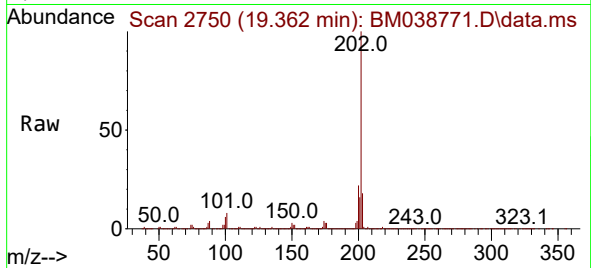




#75  
Fluoranthene  
Concen: 39.653 ng  
RT: 19.362 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BM038771.D  
Acq: 16 Feb 2023 23:49

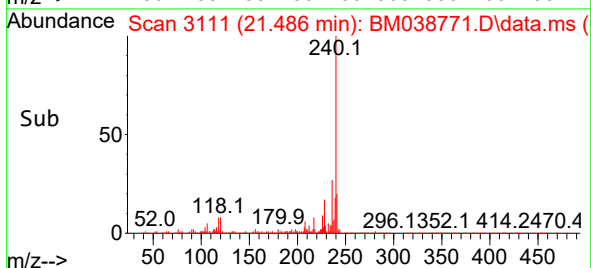
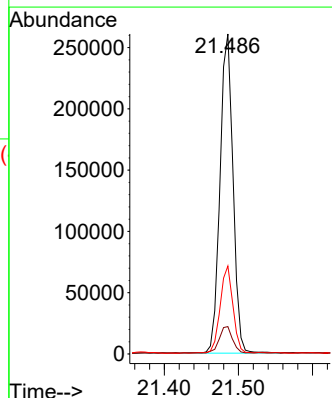
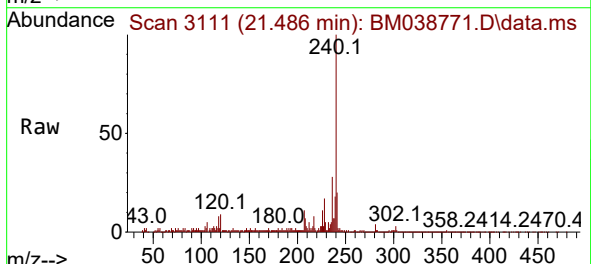
Instrument :  
BNA\_M  
ClientSampleId :  
SB-05-5.0-7.0DL

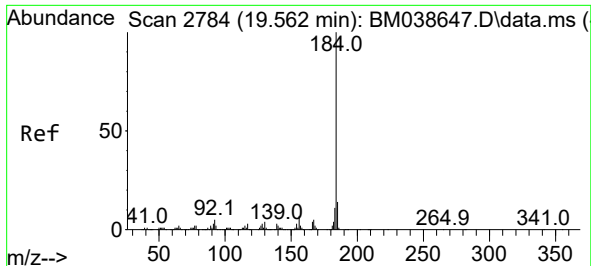
Tgt Ion:202 Resp: 713343  
Ion Ratio Lower Upper  
202 100  
101 8.4 0.0 27.4  
203 17.9 0.0 37.3



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.486 min Scan# 3111  
Delta R.T. -0.000 min  
Lab File: BM038771.D  
Acq: 16 Feb 2023 23:49

Tgt Ion:240 Resp: 318100  
Ion Ratio Lower Upper  
240 100  
120 8.6 7.0 10.4  
236 27.5 20.9 31.3

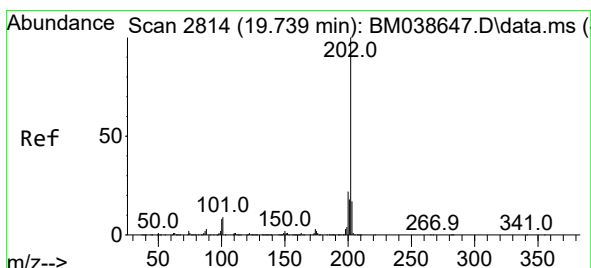
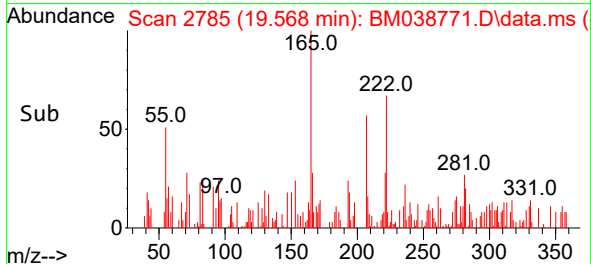
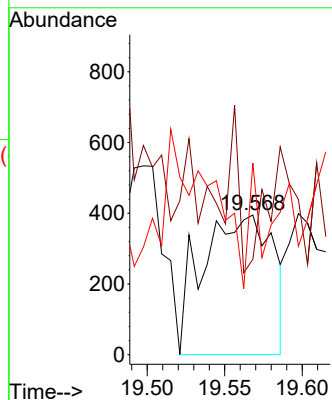
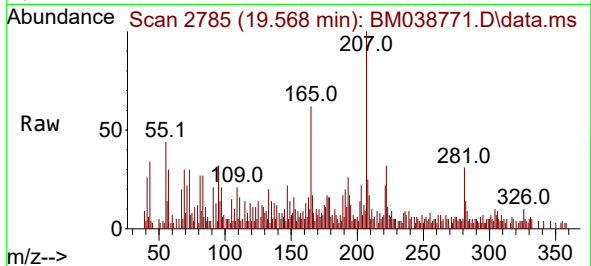




#77  
Benzidine  
Concen: 3.236 ng  
RT: 19.568 min Scan# 21  
Delta R.T. 0.017 min  
Lab File: BM038771.D  
Acq: 16 Feb 2023 23:49

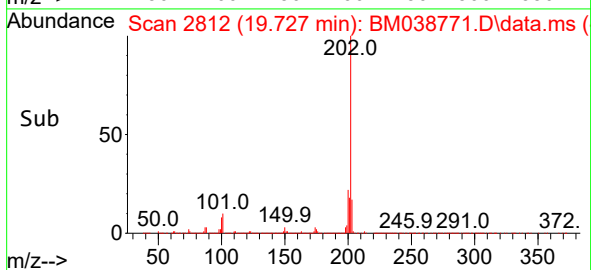
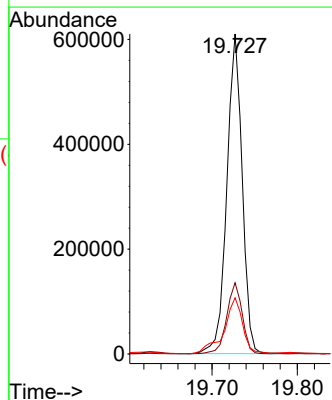
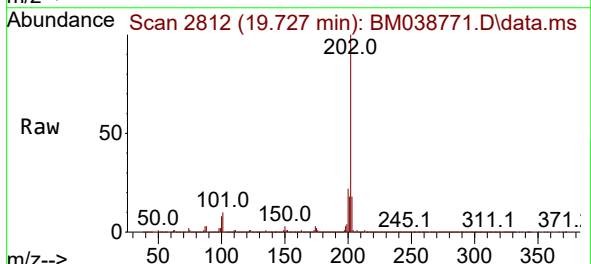
Instrument :  
BNA\_M  
ClientSampleId :  
SB-05-5.0-7.0DL

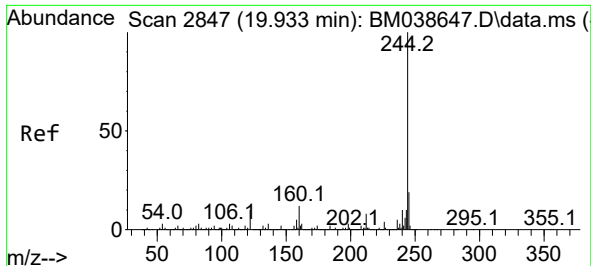
Tgt Ion:184 Resp: 1246  
Ion Ratio Lower Upper  
184 100  
185 68.4 10.8 16.2#  
183 137.2 8.8 13.2#



#78  
Pyrene  
Concen: 31.141 ng  
RT: 19.727 min Scan# 2812  
Delta R.T. 0.006 min  
Lab File: BM038771.D  
Acq: 16 Feb 2023 23:49

Tgt Ion:202 Resp: 762653  
Ion Ratio Lower Upper  
202 100  
200 22.3 17.8 26.6  
203 17.5 13.5 20.3

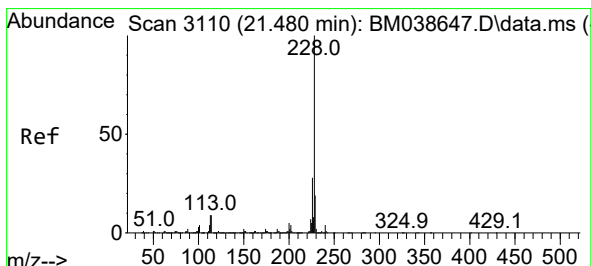
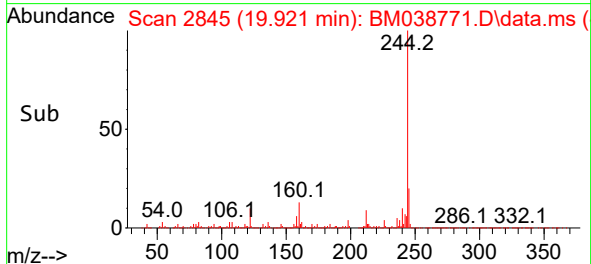
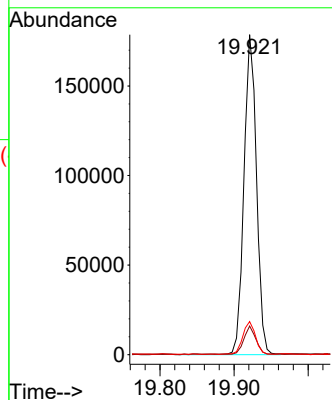
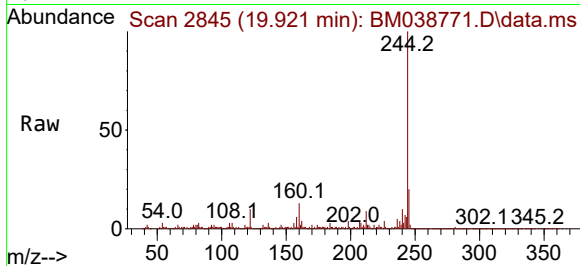




#79  
 Terphenyl-d14  
 Concen: 11.648 ng  
 RT: 19.921 min Scan# 21  
 Delta R.T. -0.000 min  
 Lab File: BM038771.D  
 Acq: 16 Feb 2023 23:49

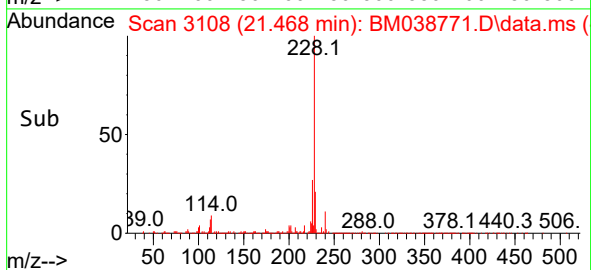
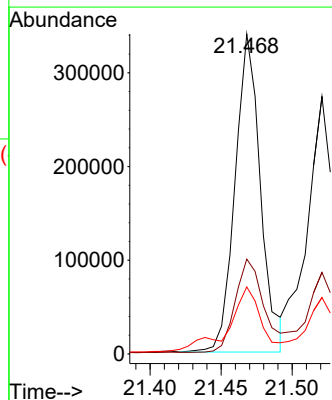
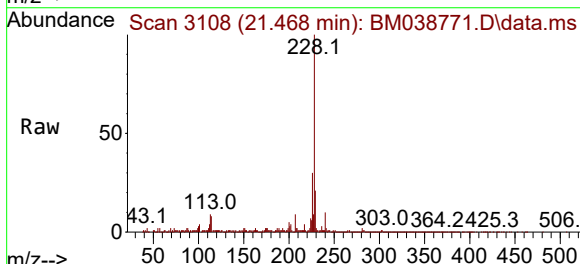
Instrument :  
 BNA\_M  
 ClientSampleId :  
 SB-05-5.0-7.0DL

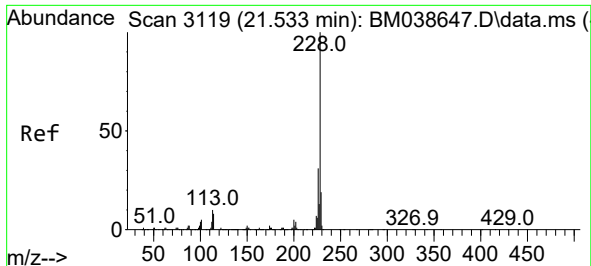
Tgt Ion:244 Resp: 209959  
 Ion Ratio Lower Upper  
 244 100  
 212 9.0 6.6 9.8  
 122 10.3 7.8 11.8



#81  
 Benzo(a)anthracene  
 Concen: 18.756 ng  
 RT: 21.468 min Scan# 3108  
 Delta R.T. -0.000 min  
 Lab File: BM038771.D  
 Acq: 16 Feb 2023 23:49

Tgt Ion:228 Resp: 422040  
 Ion Ratio Lower Upper  
 228 100  
 226 29.6 22.2 33.4  
 229 21.0 15.5 23.3





#83

Chrysene

Concen: 16.213 ng

RT: 21.521 min Scan# 3117

Delta R.T. -0.000 min

Lab File: BM038771.D

Acq: 16 Feb 2023 23:49

Instrument :

BNA\_M

ClientSampleId :

SB-05-5.0-7.0DL

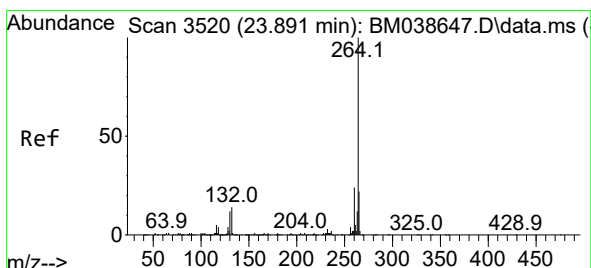
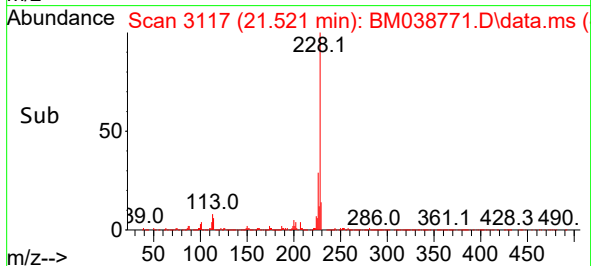
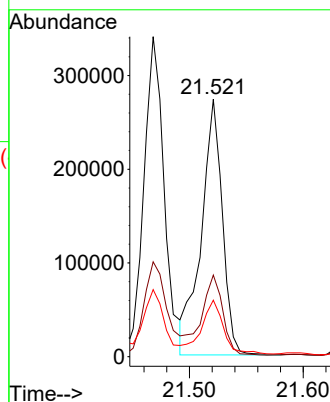
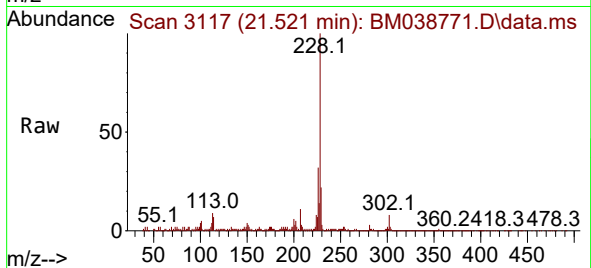
Tgt Ion:228 Resp: 351496

Ion Ratio Lower Upper

228 100

226 31.7 24.7 37.1

229 21.9 15.5 23.3



#86

Perylene-d12

Concen: 20.000 ng

RT: 23.874 min Scan# 3517

Delta R.T. 0.006 min

Lab File: BM038771.D

Acq: 16 Feb 2023 23:49

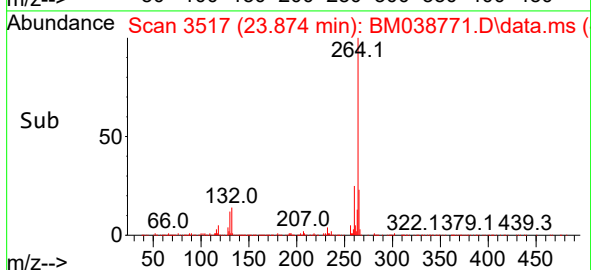
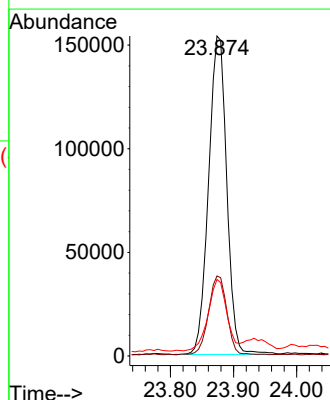
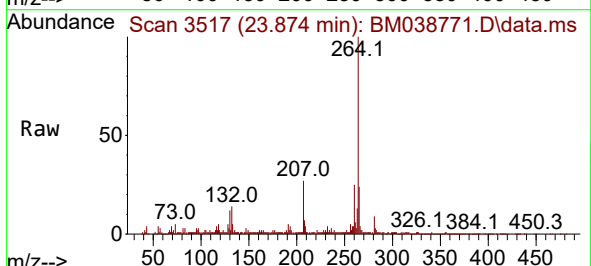
Tgt Ion:264 Resp: 307726

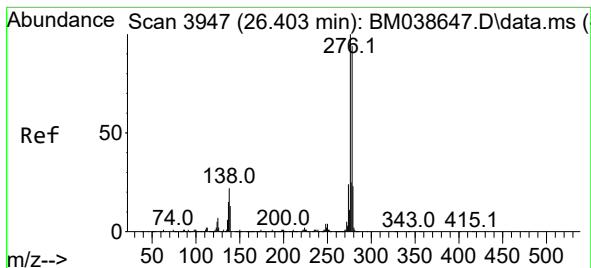
Ion Ratio Lower Upper

264 100

260 25.0 19.6 29.4

265 23.9 17.9 26.9





#87

Indeno(1,2,3-cd)pyrene

Concen: 10.923 ng

RT: 26.362 min Scan# 3393

Delta R.T. -0.000 min

Lab File: BM038771.D

Acq: 16 Feb 2023 23:49

Instrument :

BNA\_M

ClientSampleId :

SB-05-5.0-7.0DL

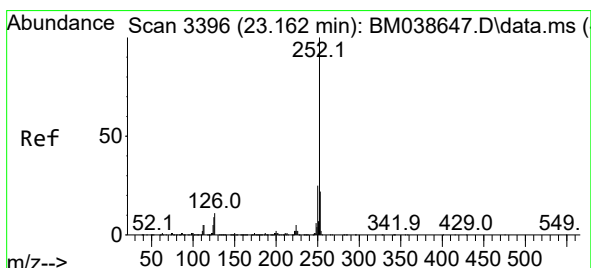
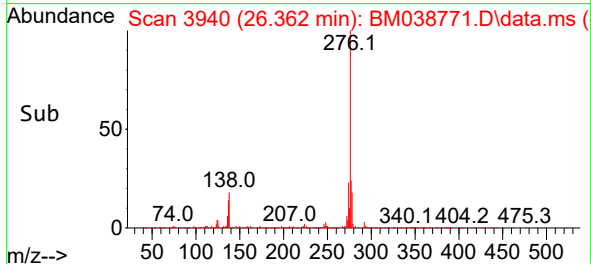
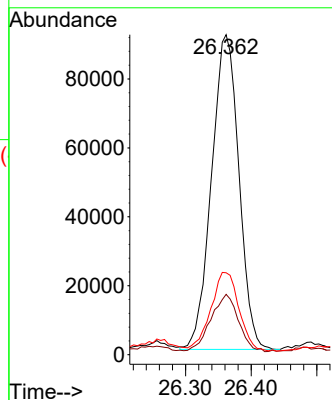
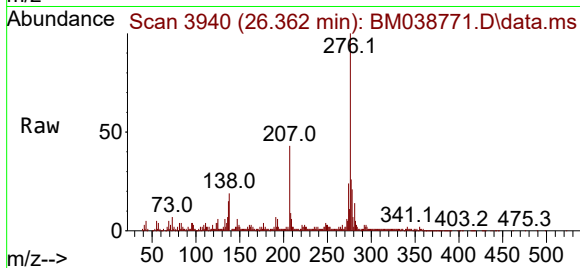
Tgt Ion:276 Resp: 264747

Ion Ratio Lower Upper

276 100

138 18.3 17.2 25.8

277 25.7 20.2 30.4



#88

Benzo(b)fluoranthene

Concen: 28.984 ng

RT: 23.144 min Scan# 3393

Delta R.T. 0.006 min

Lab File: BM038771.D

Acq: 16 Feb 2023 23:49

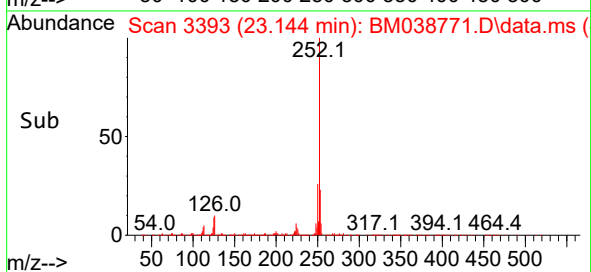
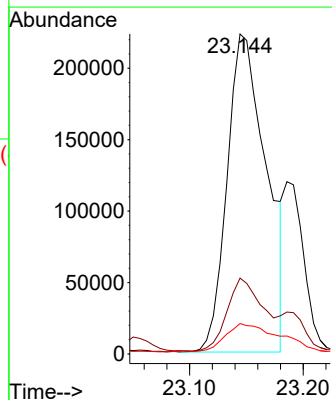
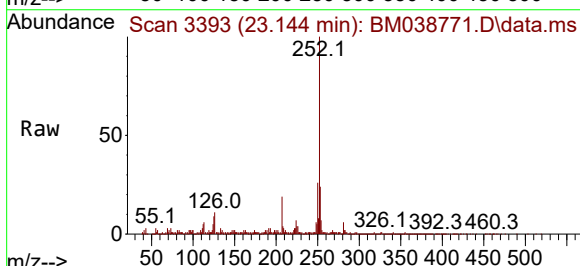
Tgt Ion:252 Resp: 534223

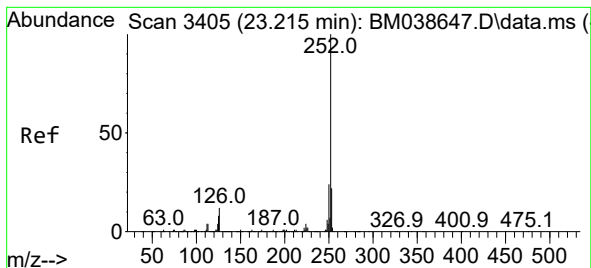
Ion Ratio Lower Upper

252 100

253 23.7 17.4 26.2

125 9.5 7.0 10.6





#89

Benzo(k)fluoranthene

Concen: 28.543 ng

RT: 23.144 min Scan# 31

Delta R.T. -0.041 min

Lab File: BM038771.D

Acq: 16 Feb 2023 23:49

Instrument :

BNA\_M

ClientSampleId :

SB-05-5.0-7.0DL

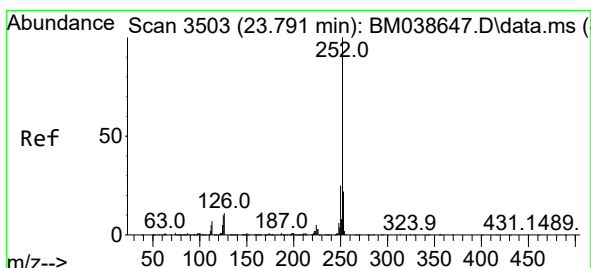
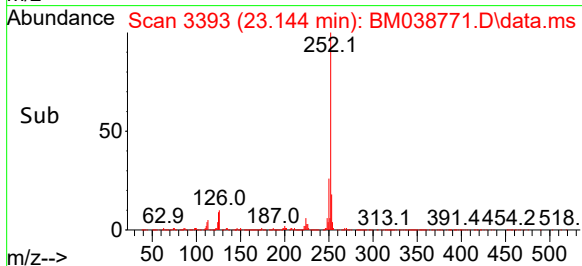
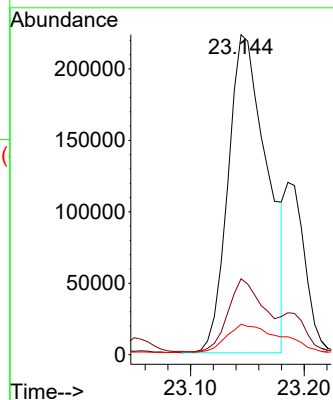
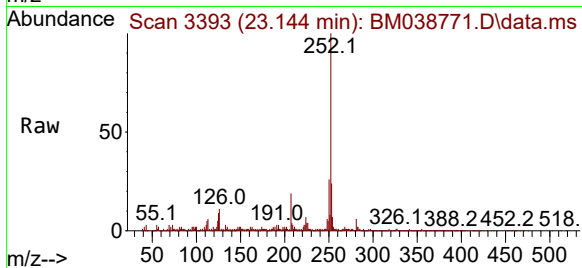
Tgt Ion:252 Resp: 534223

Ion Ratio Lower Upper

252 100

253 23.7 17.4 26.0

125 9.5 6.6 9.8



#90

Benzo(a)pyrene

Concen: 22.288 ng

RT: 23.768 min Scan# 3499

Delta R.T. 0.006 min

Lab File: BM038771.D

Acq: 16 Feb 2023 23:49

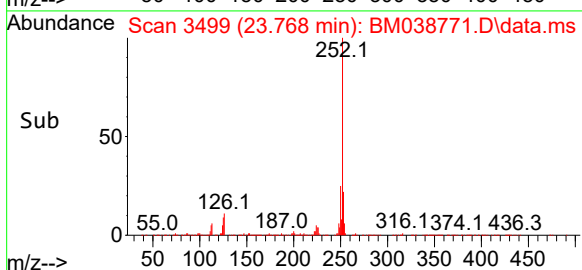
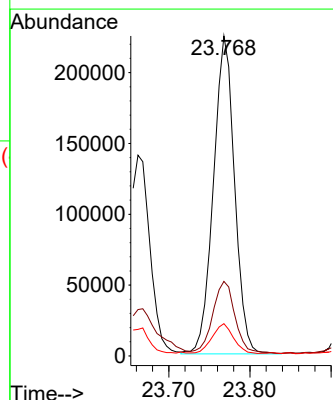
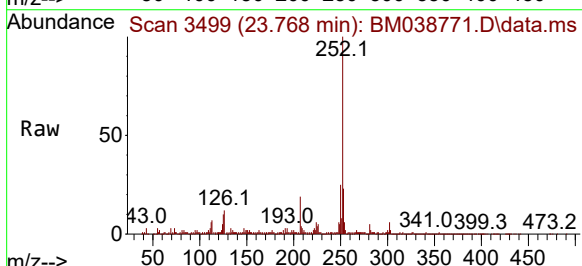
Tgt Ion:252 Resp: 406255

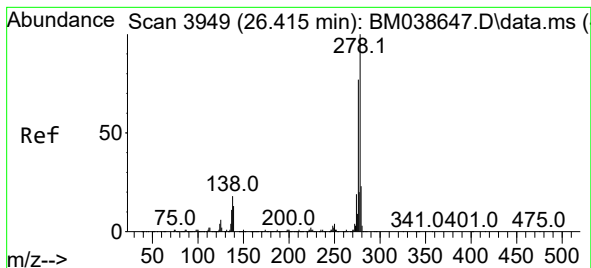
Ion Ratio Lower Upper

252 100

253 23.3 17.7 26.5

125 10.1 7.8 11.8





#91

Dibenzo(a,h)anthracene

Concen: 3.206 ng

RT: 26.368 min Scan# 3941

Delta R.T. -0.000 min

Lab File: BM038771.D

Acq: 16 Feb 2023 23:49

Instrument :

BNA\_M

ClientSampleId :

SB-05-5.0-7.0DL

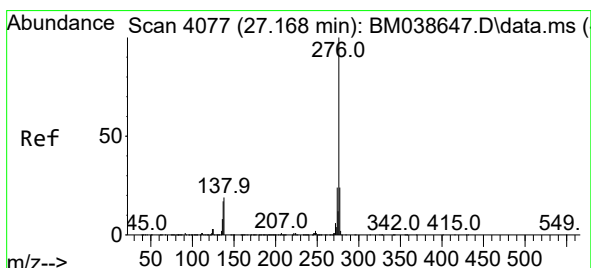
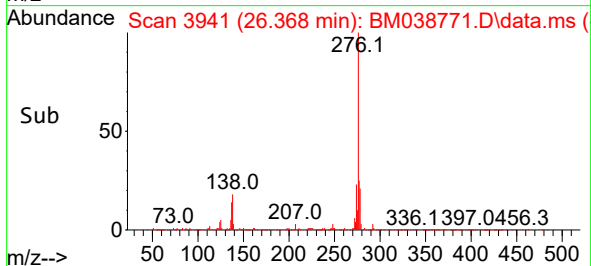
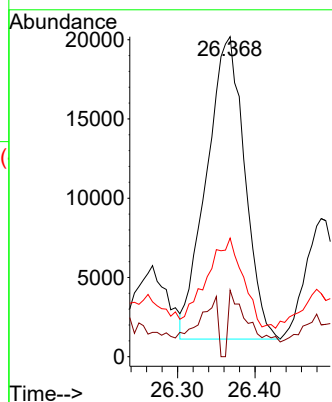
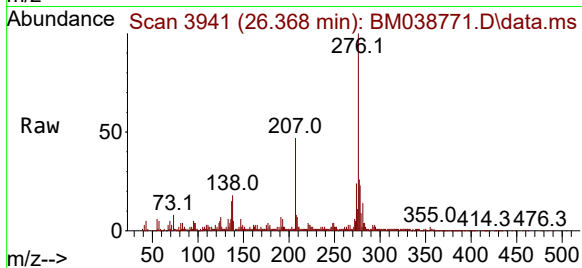
Tgt Ion:278 Resp: 65383

Ion Ratio Lower Upper

278 100

139 20.7 10.5 15.7#

279 37.1 18.7 28.1#



#92

Benzo(g,h,i)perylene

Concen: 13.714 ng

RT: 27.132 min Scan# 4071

Delta R.T. 0.006 min

Lab File: BM038771.D

Acq: 16 Feb 2023 23:49

Tgt Ion:276 Resp: 282694

Ion Ratio Lower Upper

276 100

277 24.4 19.1 28.7

138 20.8 15.3 22.9

