

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM091323\  
 Data File : BM041853.D  
 Acq On : 14 Sep 2023 05:14  
 Operator : MA/JU  
 Sample : 04175-09  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 EZYK3

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 09/14/2023  
 Supervised By :mohammad ahmed 09/15/2023

Quant Time: Sep 14 06:16:39 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM091323.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 13 16:15:23 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.971  | 152  | 6429     | 0.400 | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.785 | 136  | 16327    | 0.400 | ng/ul  | 0.00     |
| 9) Acenaphthene-d10         | 14.615 | 164  | 9071     | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.367 | 188  | 19959    | 0.400 | ng/ul  | # 0.00   |
| 17) Chrysene-d12            | 21.536 | 240  | 13340    | 0.400 | ng/ul  | # 0.00   |
| 23) Perylene-d12            | 23.953 | 264  | 13008    | 0.400 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.381  | 96   | 16942    | 2.072 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.368 | 152  | 3335     | 0.150 | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.385 | 212  | 7709     | 0.169 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.834 | 128  | 2862     | 0.052 | ng/ul# | 90       |
| 7) 2-Methylnaphthalene      | 12.440 | 142  | 4393     | 0.133 | ng/ul  | 99       |
| 8) 1-Methylnaphthalene      | 12.660 | 142  | 3688     | 0.109 | ng/ul  | 98       |
| 11) Acenaphthene            | 14.675 | 153  | 2252     | 0.052 | ng/ul  | 90       |
| 12) Fluorene                | 15.661 | 166  | 2978     | 0.059 | ng/ul# | 87       |
| 15) Phenanthrene            | 17.405 | 178  | 43195    | 0.496 | ng/ul  | 97       |
| 16) Anthracene              | 17.498 | 178  | 3545     | 0.047 | ng/ul# | 65       |
| 19) Fluoranthene            | 19.417 | 202  | 49727    | 0.481 | ng/ul  | 99       |
| 20) Pyrene                  | 19.785 | 202  | 61753m   | 0.571 | ng/ul  |          |
| 21) Benzo(a)anthracene      | 21.518 | 228  | 12500    | 0.142 | ng/ul# | 79       |
| 22) Chrysene                | 21.574 | 228  | 22360    | 0.248 | ng/ul# | 83       |
| 24) Benzo(b)fluoranthene    | 23.208 | 252  | 21416    | 0.231 | ng/ul# | 1        |
| 25) Benzo(k)fluoranthene    | 23.255 | 252  | 7547m    | 0.088 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.845 | 252  | 9138     | 0.129 | ng/ul# | 1        |
| 27) Indeno(1,2,3-cd)pyrene  | 26.451 | 276  | 9889     | 0.091 | ng/ul# | 94       |
| 29) Benzo(g,h,i)perylene    | 27.233 | 276  | 11065    | 0.121 | ng/ul# | 33       |
| -----                       |        |      |          |       |        |          |

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

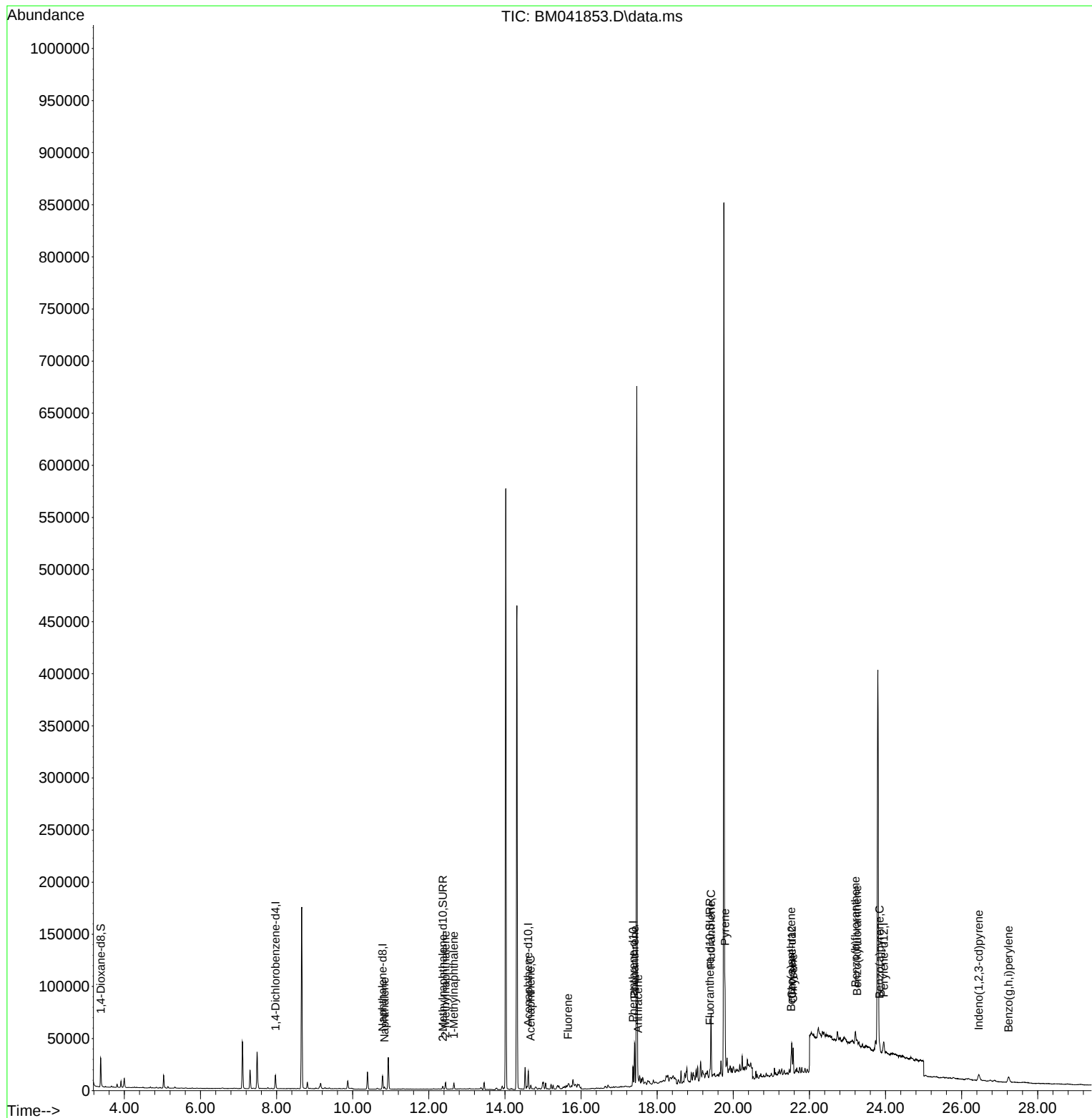
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM091323\  
Data File : BM041853.D  
Acq On : 14 Sep 2023 05:14  
Operator : MA/JU  
Sample : 04175-09  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

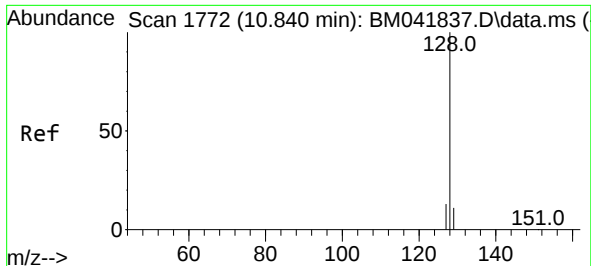
Instrument :  
BNA\_M  
ClientSampleId :  
EZYK3

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Supervised By :mohammad ahmed 09/15/2023

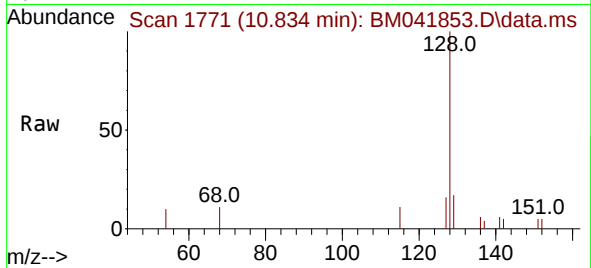
Quant Time: Sep 14 06:16:39 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM091323.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Sep 13 16:15:23 2023  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.052 ng/ul  
RT: 10.834 min Scan# 1772  
Delta R.T. -0.005 min  
Lab File: BM041853.D  
Acq: 14 Sep 2023 05:14

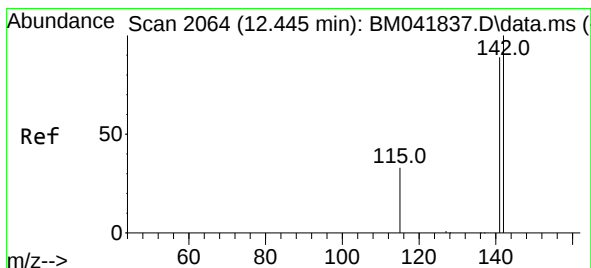
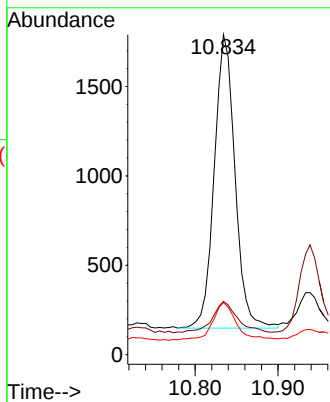
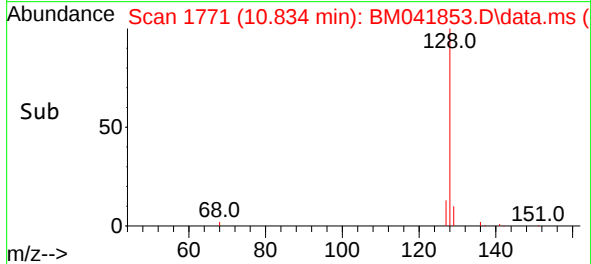
Instrument :  
BNA\_M  
ClientSampleId :  
EZYK3



Tgt Ion:128 Resp: 2862  
Ion Ratio Lower Upper  
128 100  
129 16.6 9.5 14.3  
127 16.3 10.7 16.1

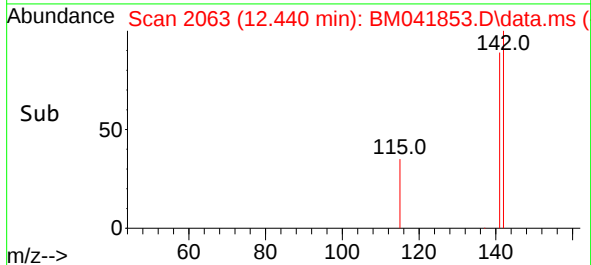
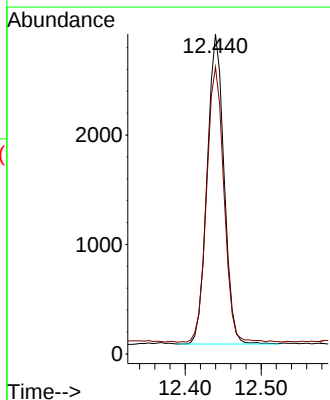
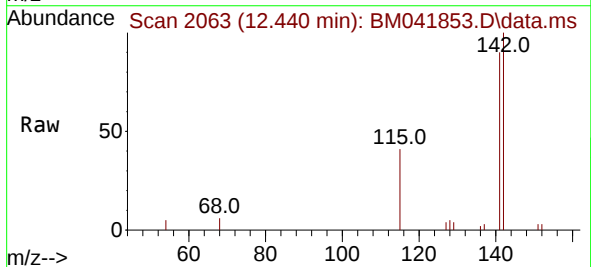
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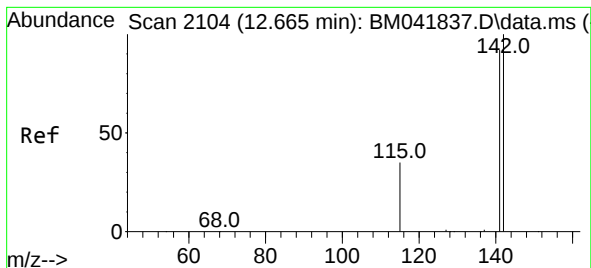
Reviewed By :Yogesh Patel 09/14/2023  
Supervised By :mohammad ahmed 09/15/2023



#7  
2-Methylnaphthalene  
Concen: 0.133 ng/ul  
RT: 12.440 min Scan# 2063  
Delta R.T. -0.005 min  
Lab File: BM041853.D  
Acq: 14 Sep 2023 05:14

Tgt Ion:142 Resp: 4393  
Ion Ratio Lower Upper  
142 100  
141 90.9 72.1 108.1





#8

1-Methylnaphthalene

Concen: 0.109 ng/ul

RT: 12.660 min Scan# 2104

Delta R.T. -0.005 min

Lab File: BM041853.D

Acq: 14 Sep 2023 05:14

Instrument :

BNA\_M

ClientSampleId :

EZYK3

Tgt Ion:142 Resp: 368

Ion Ratio Lower Upper

142 100

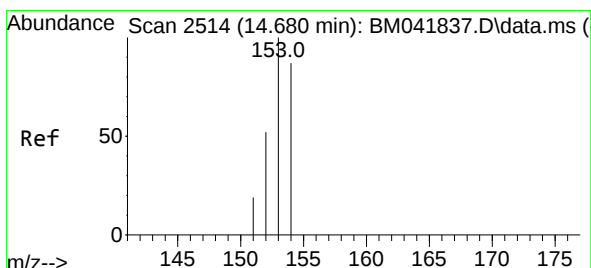
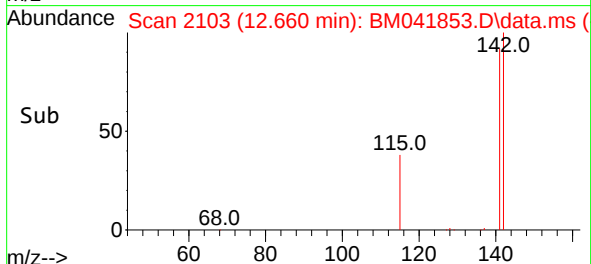
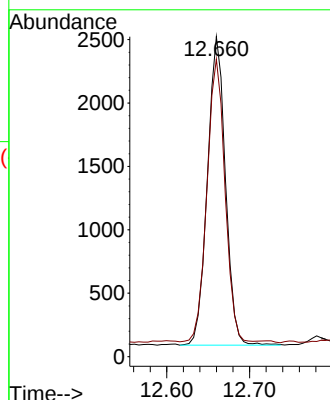
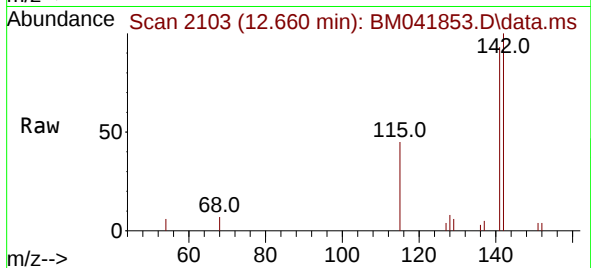
141 91.1 74.3 111.5

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#11

Acenaphthene

Concen: 0.052 ng/ul

RT: 14.675 min Scan# 2513

Delta R.T. -0.005 min

Lab File: BM041853.D

Acq: 14 Sep 2023 05:14

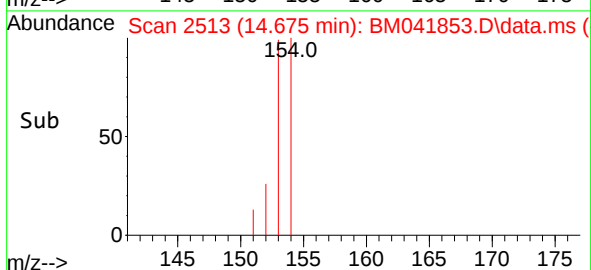
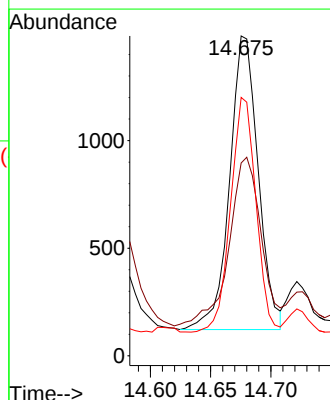
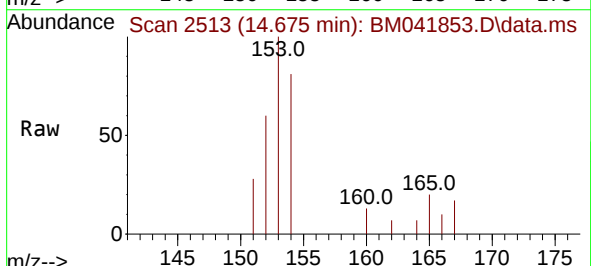
Tgt Ion:153 Resp: 2252

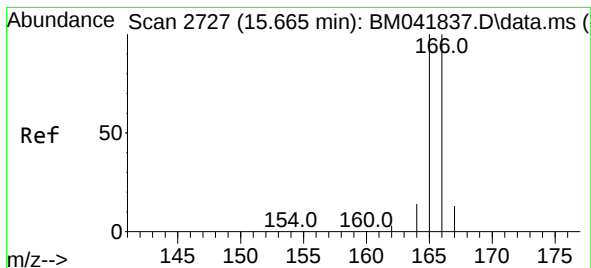
Ion Ratio Lower Upper

153 100

152 60.3 41.5 62.3

154 80.8 70.7 106.1





#12

Fluorene

Concen: 0.059 ng/u1

RT: 15.661 min Scan# 21

Delta R.T. -0.005 min

Lab File: BM041853.D

Acq: 14 Sep 2023 05:14

Instrument :

BNA\_M

ClientSampleId :

EZYK3

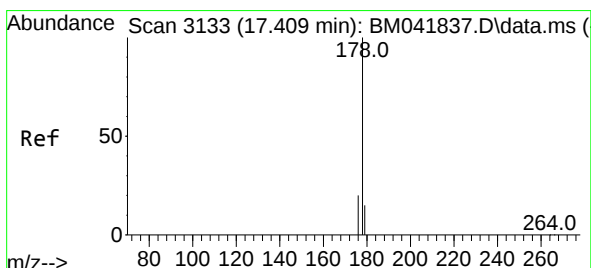
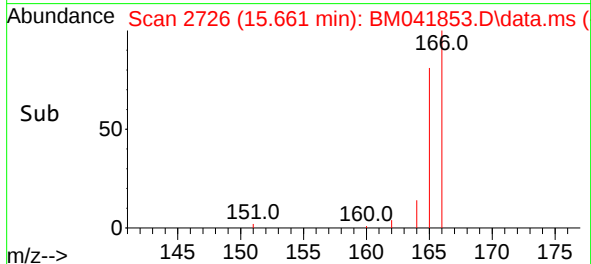
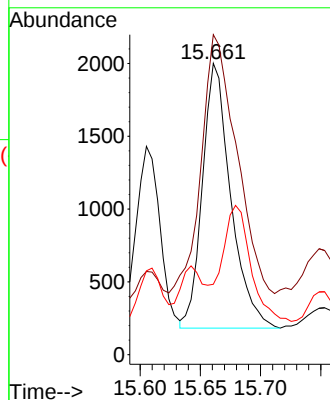
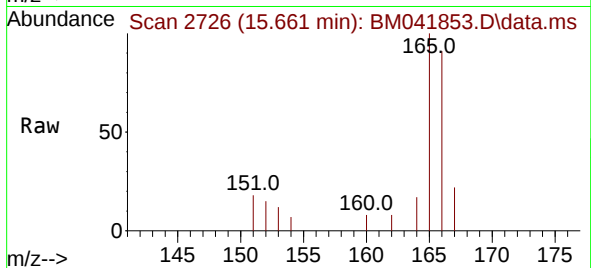
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:166 | Resp: | 2978       |
| Ion Ratio   | Lower | Upper      |
| 166         | 100   |            |
| 165         | 109.8 | 79.3 118.9 |
| 167         | 24.2  | 11.2 16.8  |

Manual Integrations

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Supervised By :mohammad ahmed 09/15/2023



#15

Phenanthrene

Concen: 0.496 ng/u1

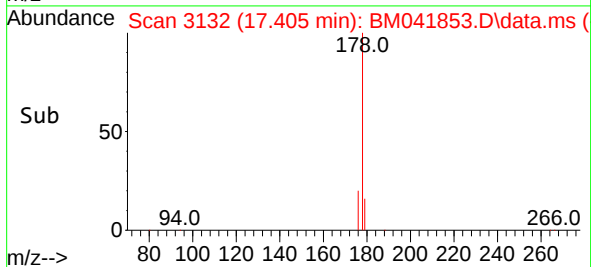
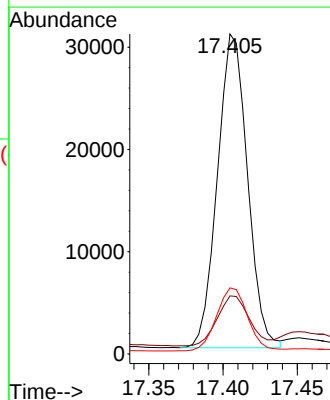
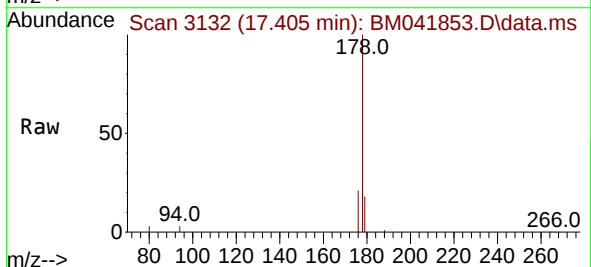
RT: 17.405 min Scan# 3132

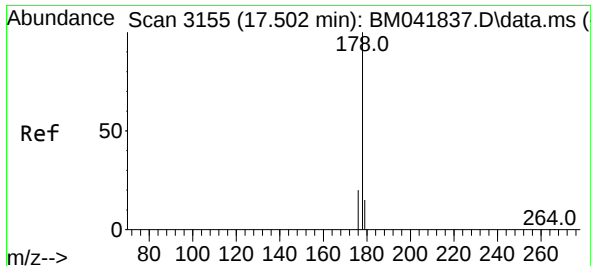
Delta R.T. -0.004 min

Lab File: BM041853.D

Acq: 14 Sep 2023 05:14

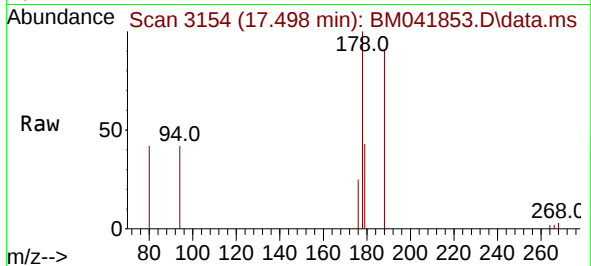
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:178 | Resp: | 43195     |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 179         | 18.1  | 12.6 19.0 |
| 176         | 20.6  | 16.6 25.0 |





#16  
 Anthracene  
 Concen: 0.047 ng/ul  
 RT: 17.498 min Scan# 3155  
 Delta R.T. -0.004 min  
 Lab File: BM041853.D  
 Acq: 14 Sep 2023 05:14

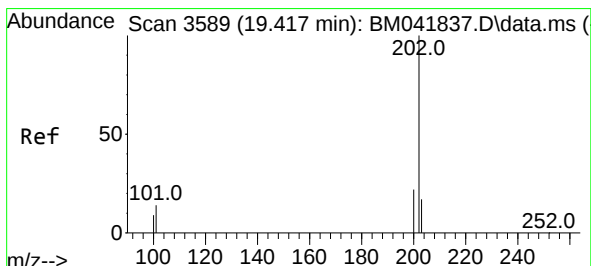
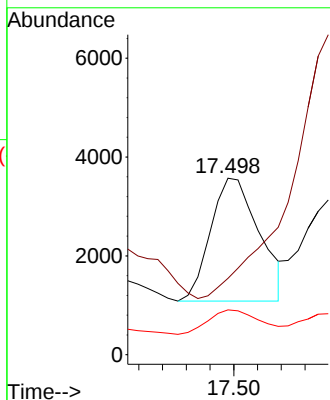
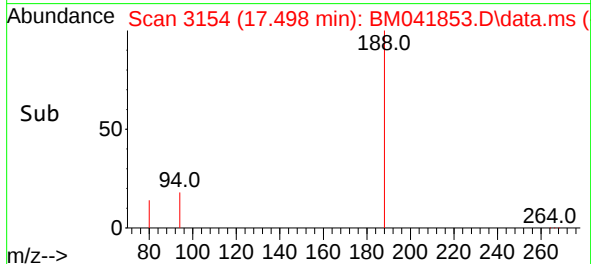
Instrument :  
 BNA\_M  
 ClientSampleId :  
 EZYK3



Tgt Ion:178 Resp: 3549  
 Ion Ratio Lower Upper  
 178 100  
 179 43.2 12.7 19.1  
 176 25.4 16.1 24.1

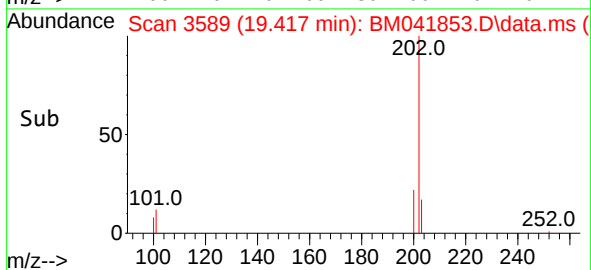
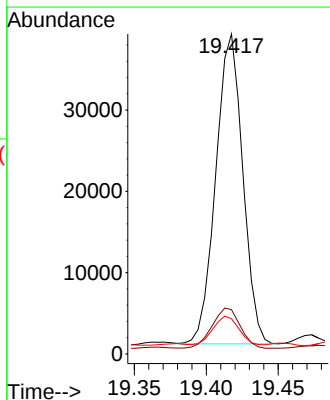
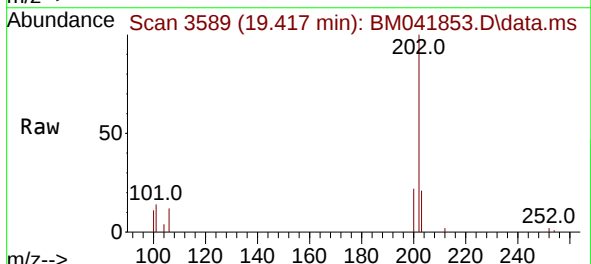
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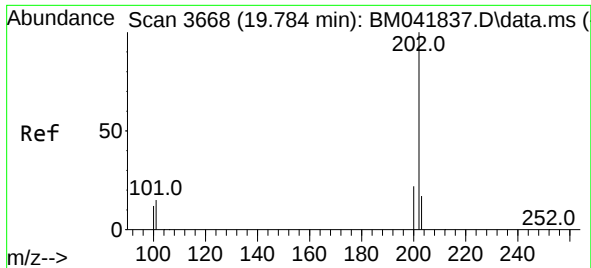
Reviewed By :Yogesh Patel 09/14/2023  
 Supervised By :mohammad ahmed 09/15/2023



#19  
 Fluoranthene  
 Concen: 0.481 ng/ul  
 RT: 19.417 min Scan# 3589  
 Delta R.T. 0.000 min  
 Lab File: BM041853.D  
 Acq: 14 Sep 2023 05:14

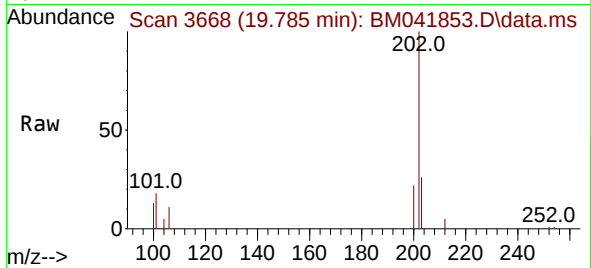
Tgt Ion:202 Resp: 49727  
 Ion Ratio Lower Upper  
 202 100  
 101 13.8 11.0 16.6  
 100 11.0 8.2 12.4





#20  
Pyrene  
Concen: 0.571 ng/ul m  
RT: 19.785 min Scan# 3668  
Delta R.T. 0.000 min  
Lab File: BM041853.D  
Acq: 14 Sep 2023 05:14

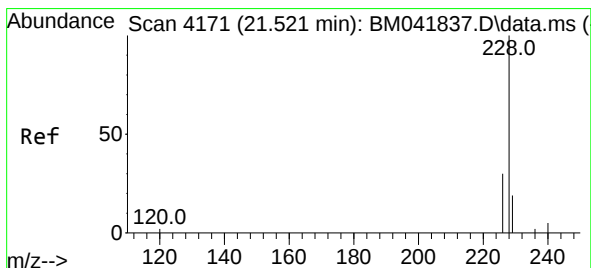
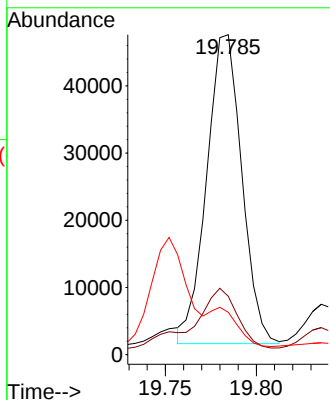
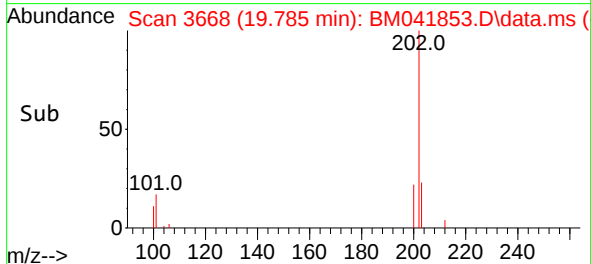
Instrument :  
BNA\_M  
ClientSampleId :  
EZYK3



Tgt Ion:202 Resp: 6175  
Ion Ratio Lower Upper  
202 100  
101 18.2 12.6 19.0  
100 13.3 9.9 14.9

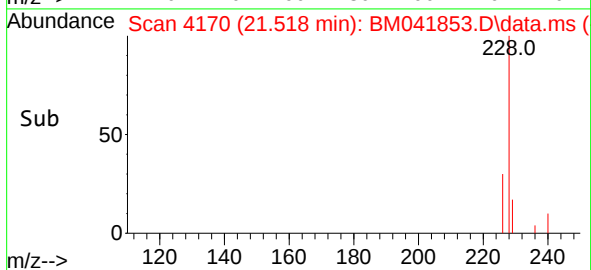
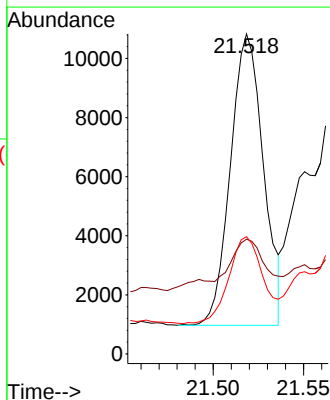
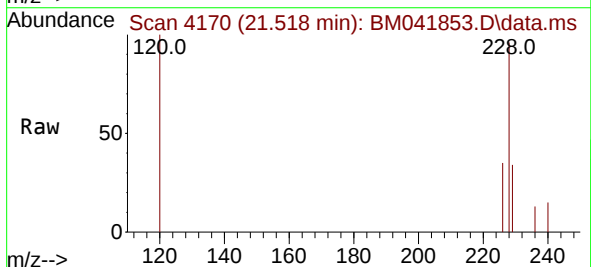
Manual Integrations  
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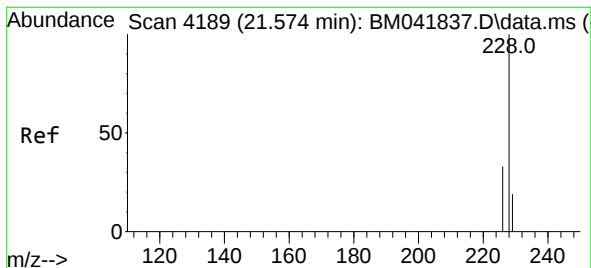
Reviewed By :Yogesh Patel 09/14/2023  
Supervised By :mohammad ahmed 09/15/2023



#21  
Benzo(a)anthracene  
Concen: 0.142 ng/ul  
RT: 21.518 min Scan# 4170  
Delta R.T. -0.003 min  
Lab File: BM041853.D  
Acq: 14 Sep 2023 05:14

Tgt Ion:228 Resp: 12500  
Ion Ratio Lower Upper  
228 100  
229 35.8 15.8 23.8#  
226 36.6 24.3 36.5#





#22

Chrysene

Concen: 0.248 ng/ul

RT: 21.574 min Scan# 4189

Delta R.T. -0.003 min

Lab File: BM041853.D

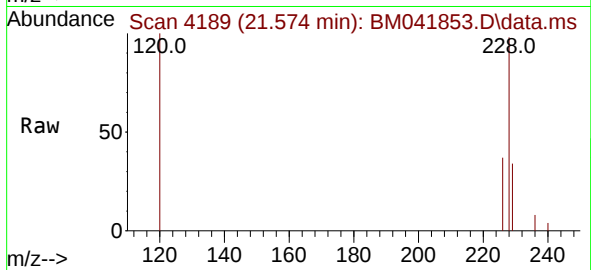
Acq: 14 Sep 2023 05:14

Instrument :

BNA\_M

ClientSampleId :

EZYK3



Tgt Ion:228 Resp: 22360

Ion Ratio Lower Upper

228 100

226 38.3 27.0 40.4

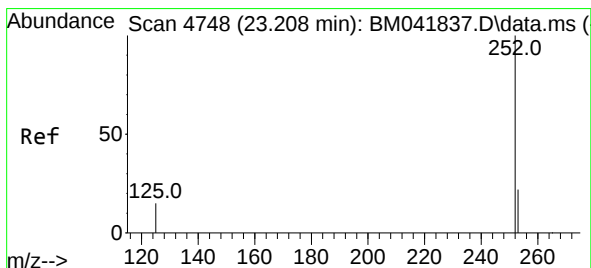
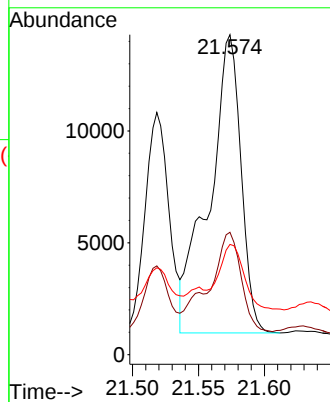
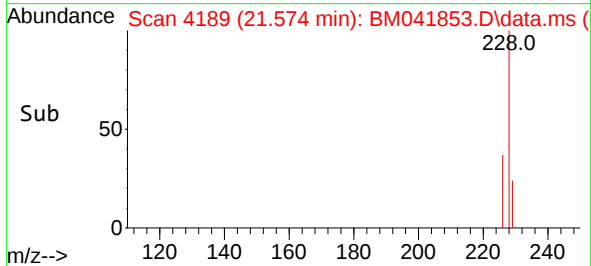
229 34.4 15.7 23.5

Manual Integrations

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Supervised By :mohammad ahmed 09/15/2023



#24

Benzo(b)fluoranthene

Concen: 0.231 ng/ul

RT: 23.208 min Scan# 4748

Delta R.T. 0.000 min

Lab File: BM041853.D

Acq: 14 Sep 2023 05:14

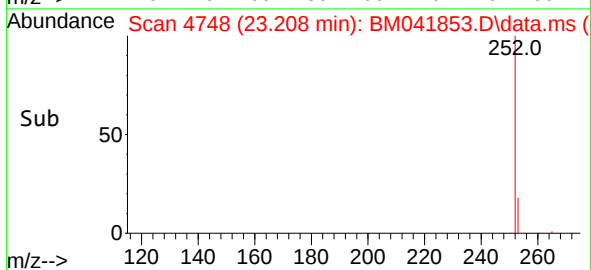
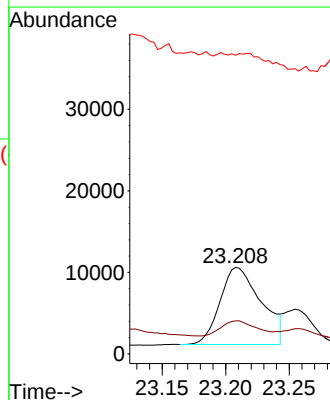
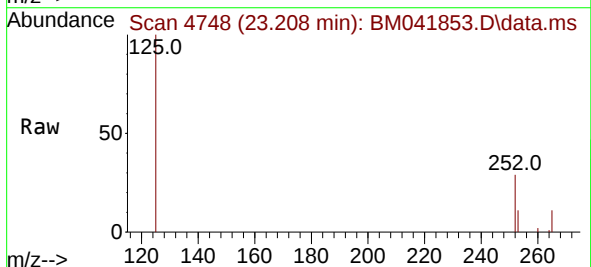
Tgt Ion:252 Resp: 21416

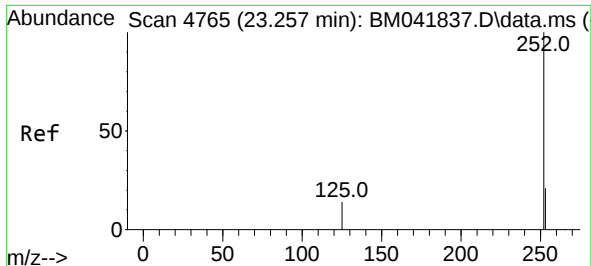
Ion Ratio Lower Upper

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253 38.2 0.0 51.0

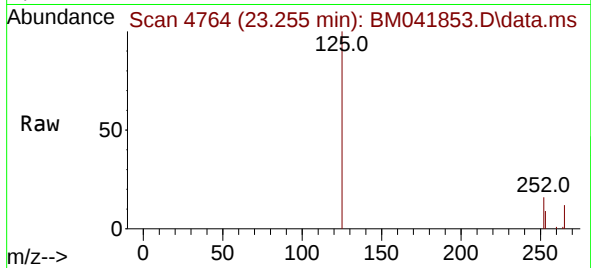
125 345.2 0.0 39.8





#25  
Benzo(k)fluoranthene  
Concen: 0.088 ng/ul m  
RT: 23.255 min Scan# 4765  
Delta R.T. -0.006 min  
Lab File: BM041853.D  
Acq: 14 Sep 2023 05:14

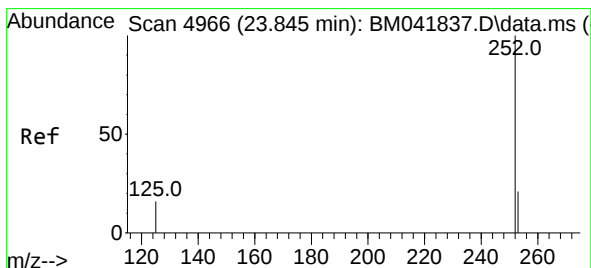
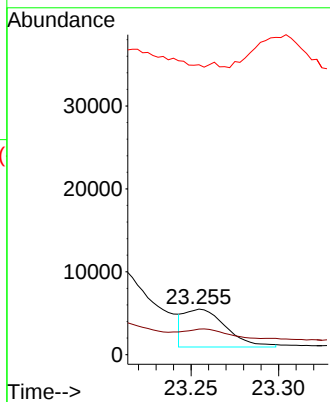
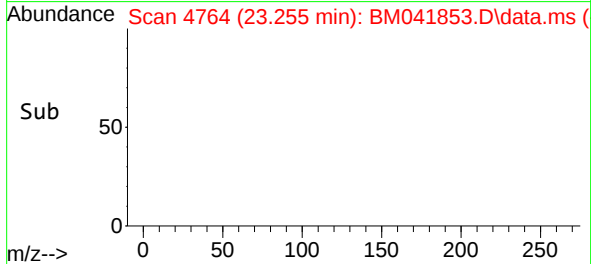
Instrument :  
BNA\_M  
ClientSampleId :  
EZYK3



Tgt Ion:252 Resp: 754  
Ion Ratio Lower Upper  
252 100  
253 56.2 20.2 30.2  
125 635.5 15.8 23.8

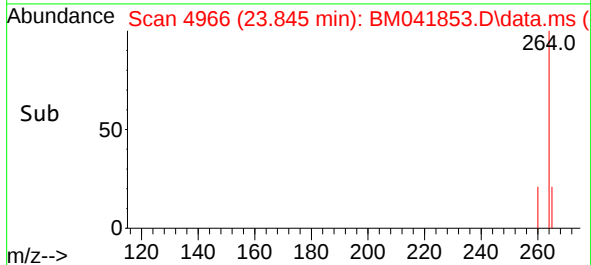
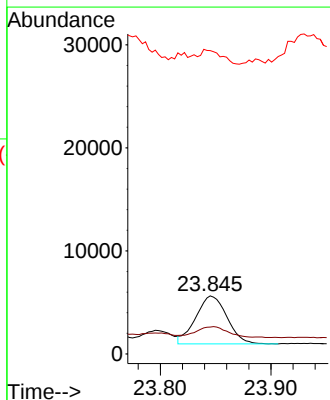
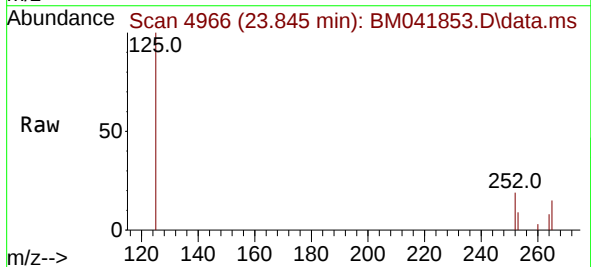
Manual Integrations  
APPROVED

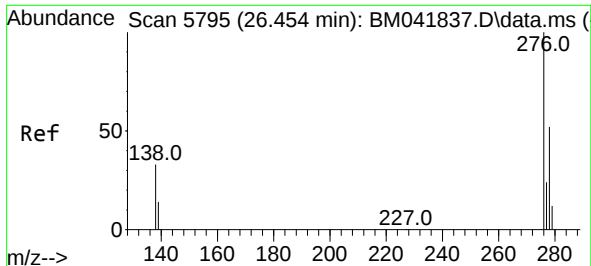
Reviewed By :Yogesh Patel 09/14/2023  
Supervised By :mohammad ahmed 09/15/2023



#26  
Benzo(a)pyrene  
Concen: 0.129 ng/ul  
RT: 23.845 min Scan# 4966  
Delta R.T. 0.000 min  
Lab File: BM041853.D  
Acq: 14 Sep 2023 05:14

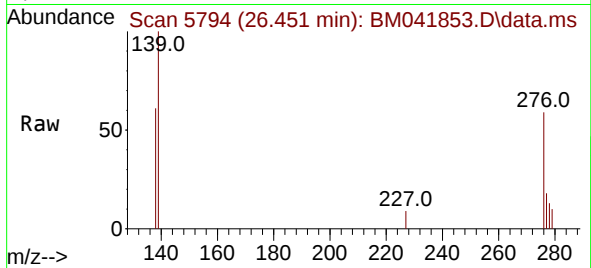
Tgt Ion:252 Resp: 9138  
Ion Ratio Lower Upper  
252 100  
253 46.4 21.8 32.8#  
125 522.5 18.8 28.2#





#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.091 ng/ul  
RT: 26.451 min Scan# 5795  
Delta R.T. -0.003 min  
Lab File: BM041853.D  
Acq: 14 Sep 2023 05:14

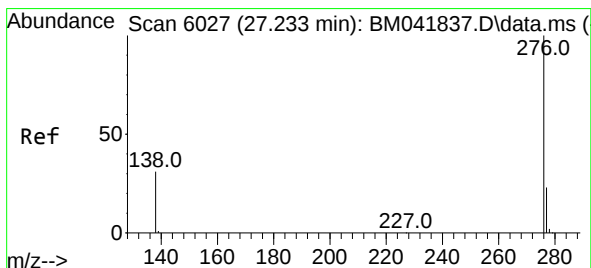
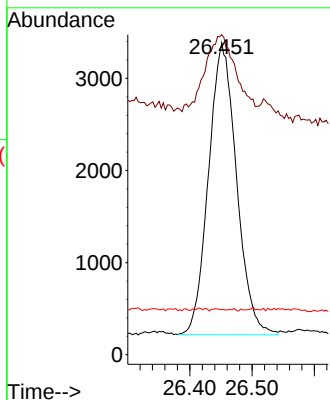
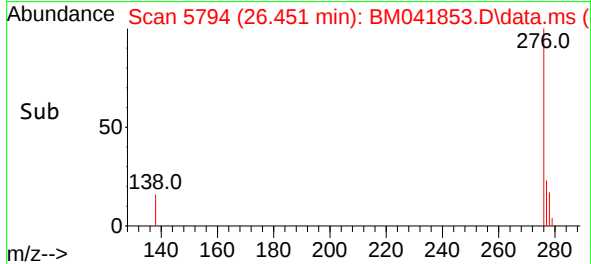
Instrument :  
BNA\_M  
ClientSampleId :  
EZYK3



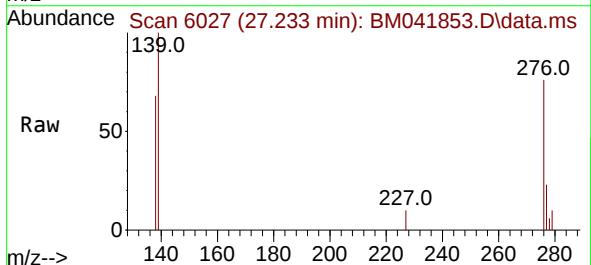
Tgt Ion:276 Resp: 9889  
Ion Ratio Lower Upper  
276 100  
138 31.3 27.7 41.5  
227 0.0 0.1 0.1

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 09/14/2023  
Supervised By :mohammad ahmed 09/15/2023



#29  
Benzo(g,h,i)perylene  
Concen: 0.121 ng/ul  
RT: 27.233 min Scan# 6027  
Delta R.T. -0.003 min  
Lab File: BM041853.D  
Acq: 14 Sep 2023 05:14



Tgt Ion:276 Resp: 11065  
Ion Ratio Lower Upper  
276 100  
138 90.5 24.7 37.1#  
277 30.5 19.3 28.9#

