

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM091323\  
 Data File : BM041846.D  
 Acq On : 14 Sep 2023 00:56  
 Operator : MA/JU  
 Sample : 04235-09DL 5X  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 EZYK0DL

Manual Integrations  
 APPROVED

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

Quant Time: Sep 14 03:39:17 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  | 7795     | 0.400 | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.785 | 136  | 20638    | 0.400 | ng/ul  | 0.00     |
| 9) Acenaphthene-d10         | 14.615 | 164  | 11335    | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.367 | 188  | 25875    | 0.400 | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.536 | 240  | 14309    | 0.400 | ng/ul  | # 0.00   |
| 23) Perylene-d12            | 23.950 | 264  | 16749    | 0.400 | ng/ul  | # 0.00   |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.381  | 96   | 3349     | 0.338 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.368 | 152  | 757      | 0.027 | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.385 | 212  | 1723     | 0.035 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.834 | 128  | 26699    | 0.384 | ng/ul  | 99       |
| 7) 2-Methylnaphthalene      | 12.440 | 142  | 26745    | 0.640 | ng/ul  | 100      |
| 8) 1-Methylnaphthalene      | 12.660 | 142  | 18274    | 0.429 | ng/ul  | 100      |
| 10) Acenaphthylene          | 14.342 | 152  | 24192    | 0.340 | ng/ul  | 99       |
| 11) Acenaphthene            | 14.675 | 153  | 31424    | 0.578 | ng/ul  | 98       |
| 12) Fluorene                | 15.661 | 166  | 56571    | 0.890 | ng/ul  | 99       |
| 15) Phenanthrene            | 17.409 | 178  | 612996   | 5.427 | ng/ul  | 99       |
| 16) Anthracene              | 17.498 | 178  | 135958   | 1.381 | ng/ul  | 100      |
| 19) Fluoranthene            | 19.417 | 202  | 716695   | 6.467 | ng/ul  | 97       |
| 20) Pyrene                  | 19.785 | 202  | 570392   | 4.916 | ng/ul  | 97       |
| 21) Benzo(a)anthracene      | 21.518 | 228  | 236103   | 2.501 | ng/ul  | 99       |
| 22) Chrysene                | 21.574 | 228  | 212505   | 2.199 | ng/ul  | 97       |
| 24) Benzo(b)fluoranthene    | 23.208 | 252  | 278153   | 2.334 | ng/ul  | 97       |
| 25) Benzo(k)fluoranthene    | 23.255 | 252  | 105764m  | 0.963 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.845 | 252  | 198357   | 2.183 | ng/ul  | 96       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.445 | 276  | 144282   | 1.032 | ng/ul# | 88       |
| 28) Dibenzo(a,h)anthracene  | 26.458 | 278  | 33432    | 0.324 | ng/ul# | 75       |
| 29) Benzo(g,h,i)perylene    | 27.233 | 276  | 138520   | 1.172 | ng/ul  | 100      |
| -----                       |        |      |          |       |        |          |

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

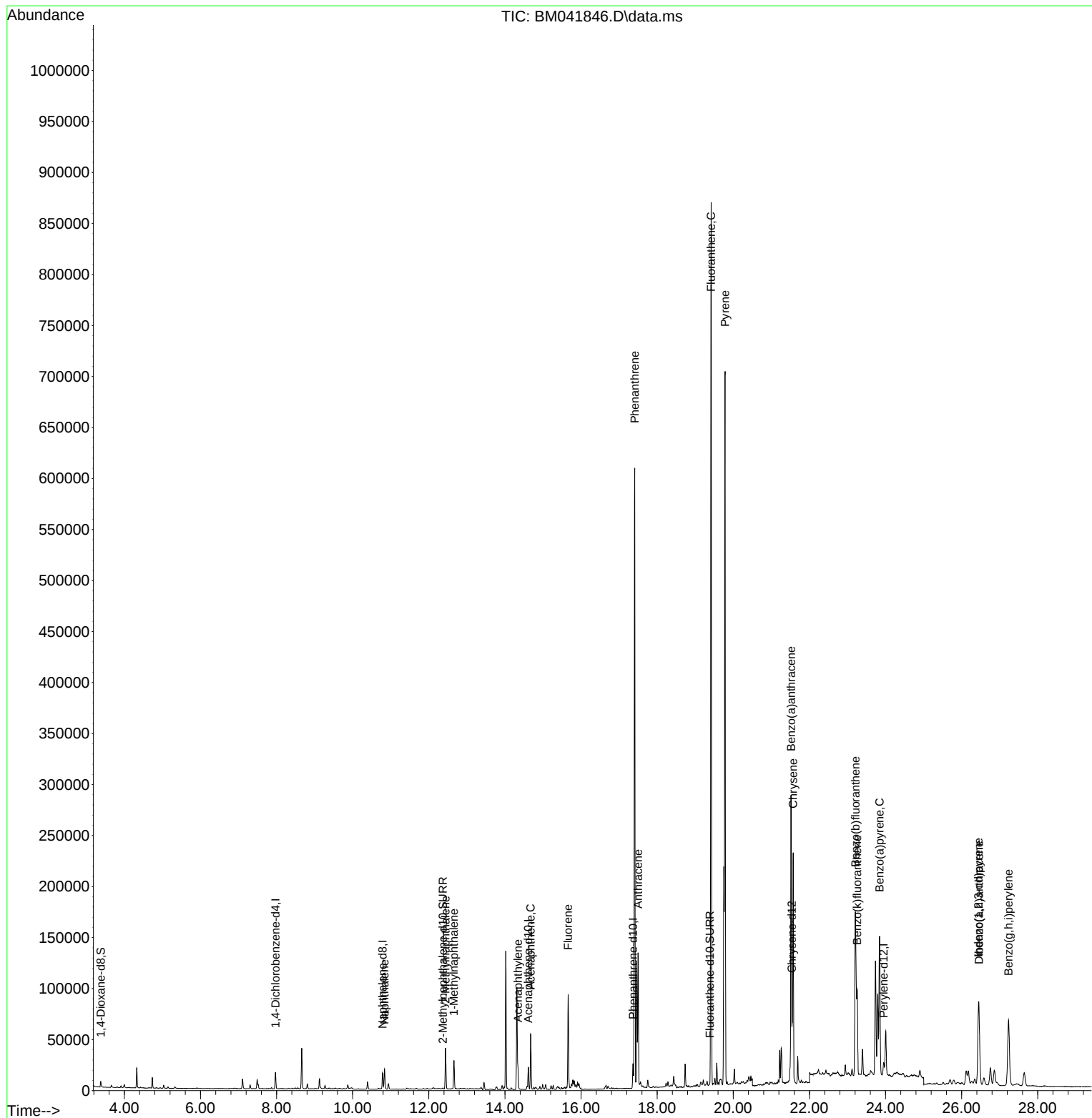
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM091323\  
Data File : BM041846.D  
Acq On : 14 Sep 2023 00:56  
Operator : MA/JU  
Sample : 04235-09DL 5X  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

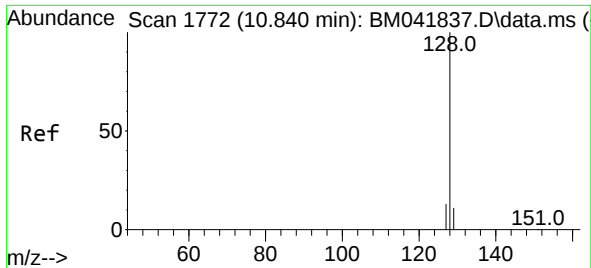
Instrument :  
BNA\_M  
ClientSampleId :  
EZYK0DL

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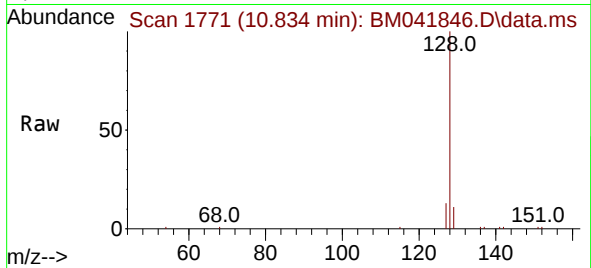
Quant Time: Sep 14 03:39:17 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM091323.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Sep 13 16:15:23 2023  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.384 ng/ul  
RT: 10.834 min Scan# 1771  
Delta R.T. -0.005 min  
Lab File: BM041846.D  
Acq: 14 Sep 2023 00:56

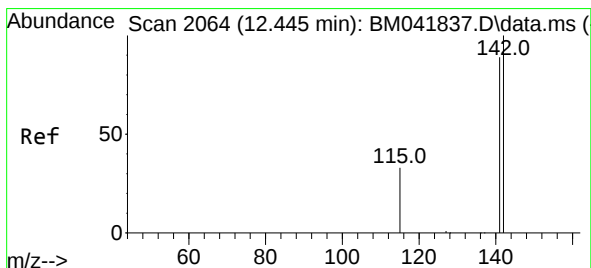
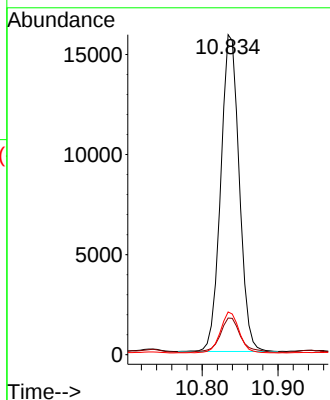
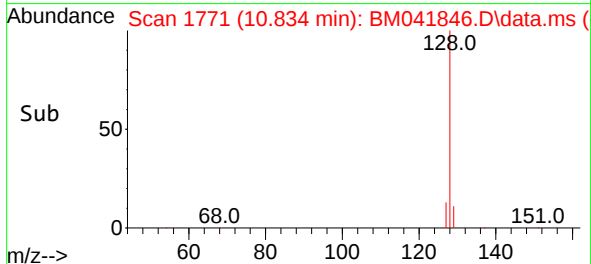
Instrument :  
BNA\_M  
ClientSampleId :  
EZYK0DL



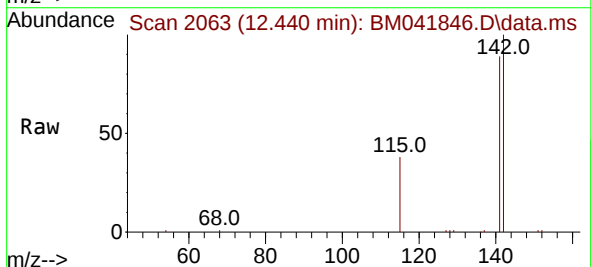
Tgt Ion:128 Resp: 26699  
Ion Ratio Lower Upper  
128 100  
129 11.5 9.5 14.3  
127 13.3 10.7 16.1

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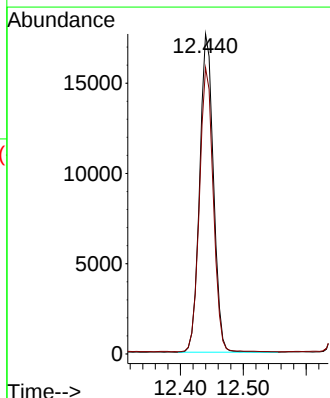
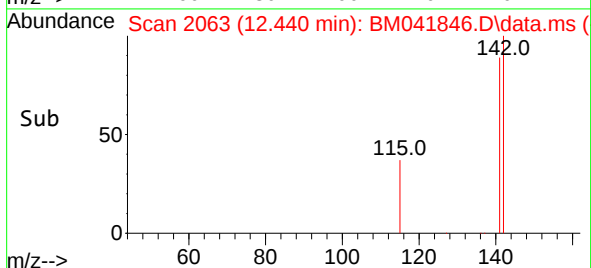
Reviewed By :Yogesh Patel 09/14/2023  
Supervised By :mohammad ahmed 09/15/2023

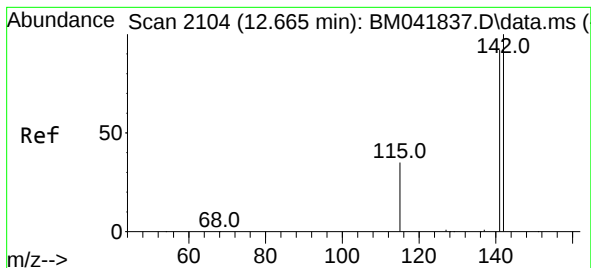


#7  
2-Methylnaphthalene  
Concen: 0.640 ng/ul  
RT: 12.440 min Scan# 2063  
Delta R.T. -0.006 min  
Lab File: BM041846.D  
Acq: 14 Sep 2023 00:56



Tgt Ion:142 Resp: 26745  
Ion Ratio Lower Upper  
142 100  
141 89.6 72.1 108.1





#8

1-Methylnaphthalene

Concen: 0.429 ng/ul

RT: 12.660 min Scan# 2104

Delta R.T. -0.005 min

Lab File: BM041846.D

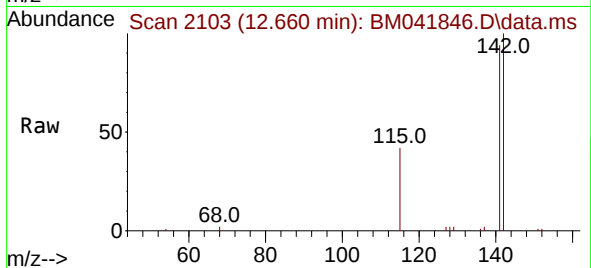
Acq: 14 Sep 2023 00:56

Instrument :

BNA\_M

ClientSampleId :

EZYK0DL



Tgt Ion:142 Resp: 18274

Ion Ratio Lower Upper

142 100

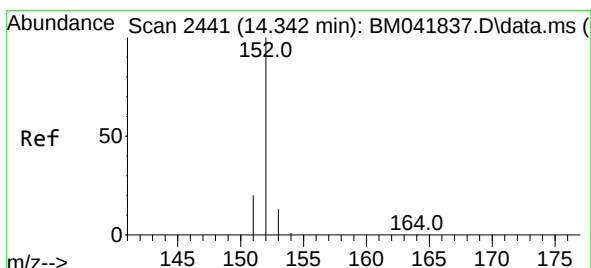
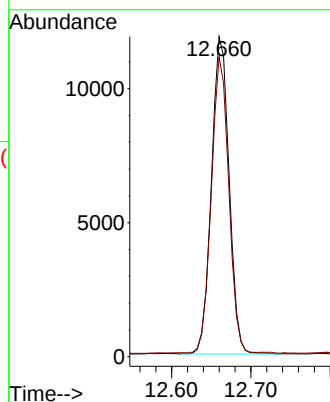
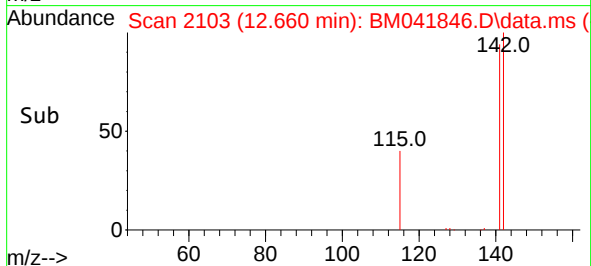
141 92.6 74.3 111.5

Manual Integrations

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#10

Acenaphthylene

Concen: 0.340 ng/ul

RT: 14.342 min Scan# 2441

Delta R.T. 0.000 min

Lab File: BM041846.D

Acq: 14 Sep 2023 00:56

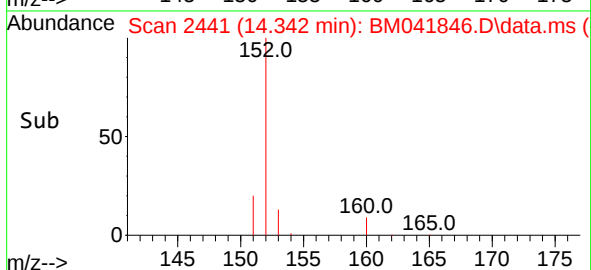
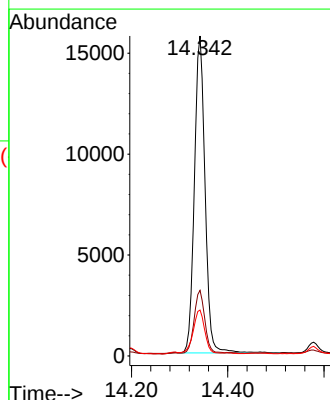
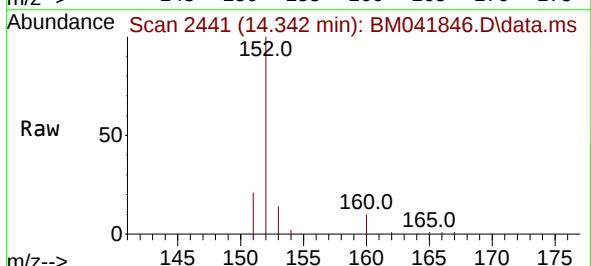
Tgt Ion:152 Resp: 24192

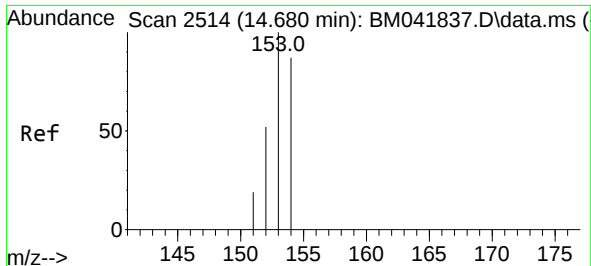
Ion Ratio Lower Upper

152 100

151 20.5 16.3 24.5

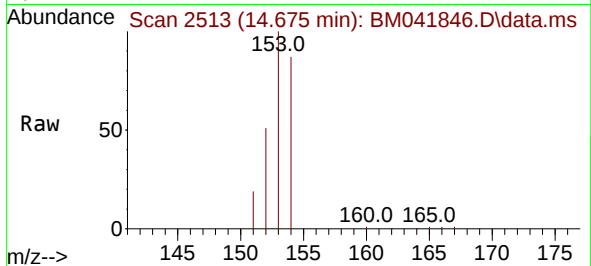
153 14.3 10.9 16.3





#11  
Acenaphthene  
Concen: 0.578 ng/u1  
RT: 14.675 min Scan# 2142  
Delta R.T. -0.005 min  
Lab File: BM041846.D  
Acq: 14 Sep 2023 00:56

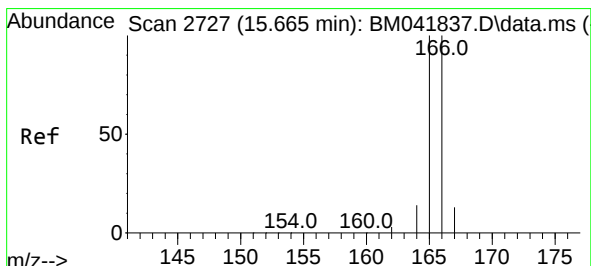
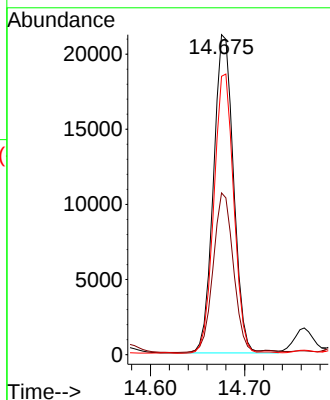
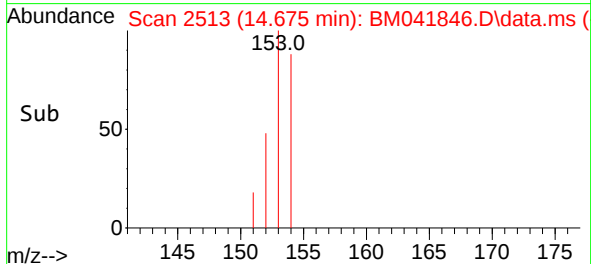
Instrument :  
BNA\_M  
ClientSampleId :  
EZYK0DL



Tgt Ion:153 Resp: 31424  
Ion Ratio Lower Upper  
153 100  
152 50.5 41.5 62.3  
154 87.0 70.7 106.1

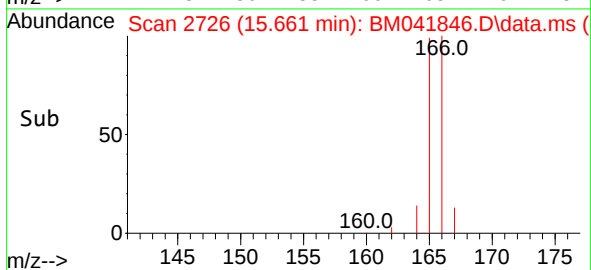
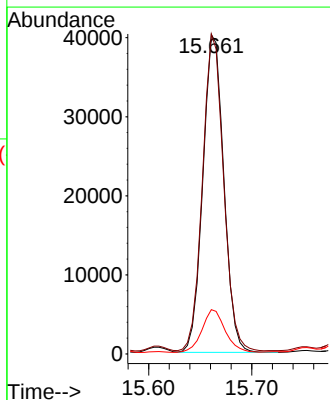
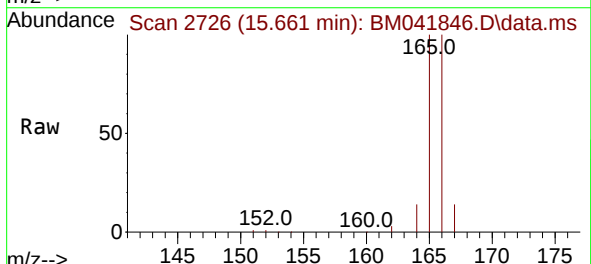
Manual Integrations  
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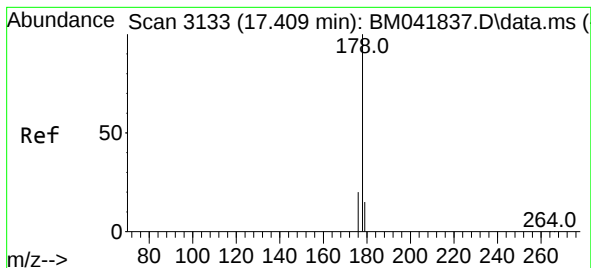
Reviewed By :Yogesh Patel 09/14/2023  
Supervised By :mohammad ahmed 09/15/2023



#12  
Fluorene  
Concen: 0.890 ng/u1  
RT: 15.661 min Scan# 2726  
Delta R.T. -0.005 min  
Lab File: BM041846.D  
Acq: 14 Sep 2023 00:56

Tgt Ion:166 Resp: 56571  
Ion Ratio Lower Upper  
166 100  
165 100.2 79.3 118.9  
167 13.9 11.2 16.8





#15

Phenanthrene

Concen: 5.427 ng/ul

RT: 17.409 min Scan# 3133

Delta R.T. 0.000 min

Lab File: BM041846.D

Acq: 14 Sep 2023 00:56

Instrument :

BNA\_M

ClientSampleId :

EZYK0DL

Tgt Ion:178 Resp: 612990

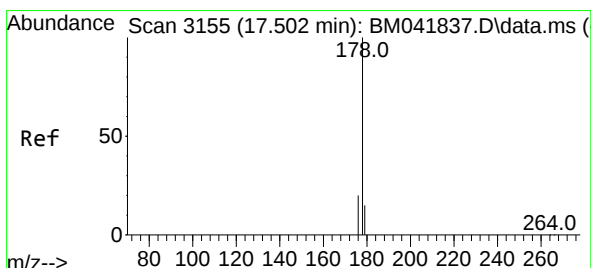
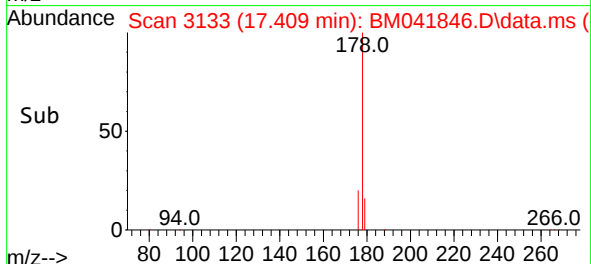
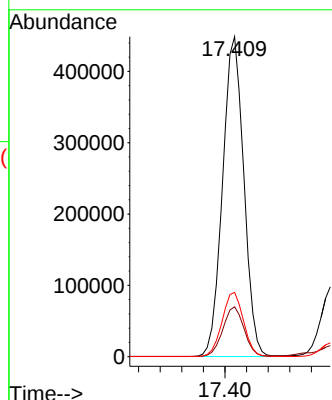
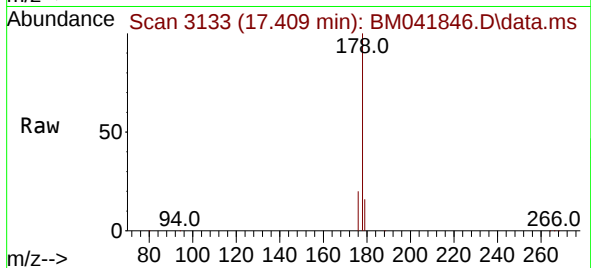
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 15.6  | 12.6  | 19.0  |
| 176 | 20.1  | 16.6  | 25.0  |

Manual Integrations

APPROVED

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Supervised By :mohammad ahmed 09/15/2023



#16

Anthracene

Concen: 1.381 ng/ul

RT: 17.498 min Scan# 3154

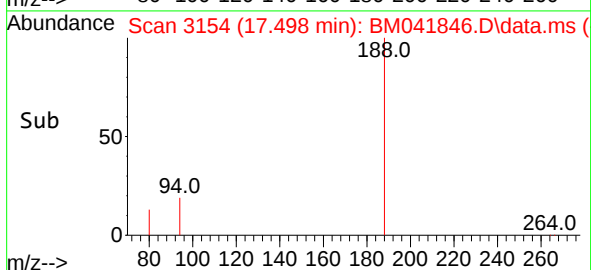
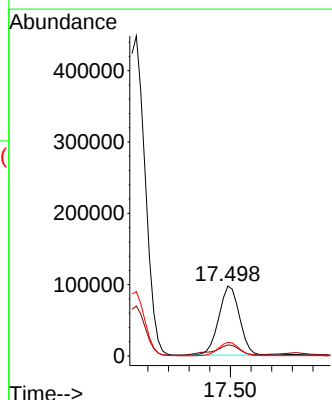
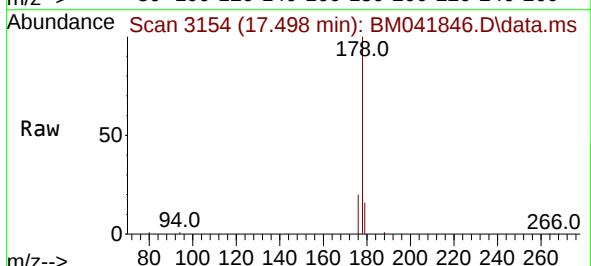
Delta R.T. -0.004 min

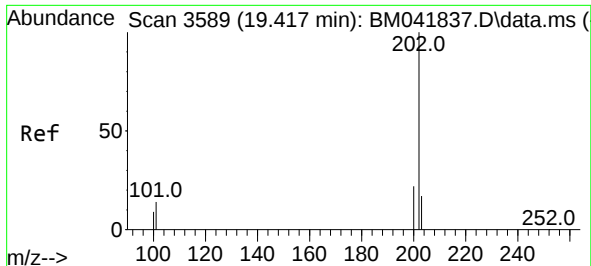
Lab File: BM041846.D

Acq: 14 Sep 2023 00:56

Tgt Ion:178 Resp: 135958

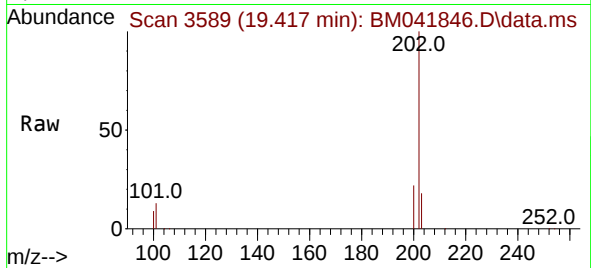
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 15.8  | 12.7  | 19.1  |
| 176 | 19.8  | 16.1  | 24.1  |





#19  
Fluoranthene  
Concen: 6.467 ng/u1  
RT: 19.417 min Scan# 3589  
Delta R.T. 0.000 min  
Lab File: BM041846.D  
Acq: 14 Sep 2023 00:56

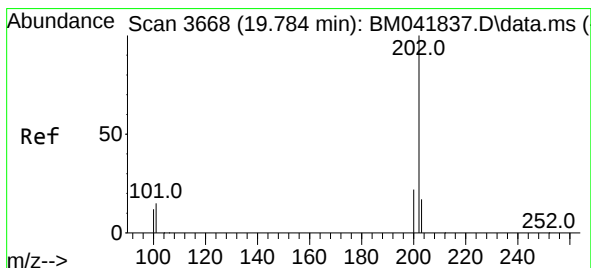
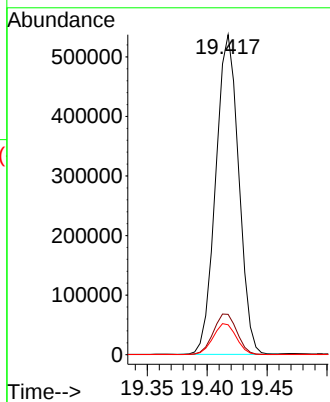
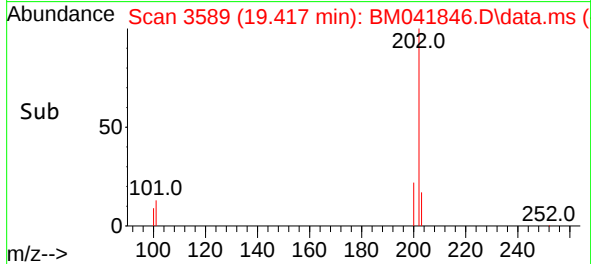
Instrument :  
BNA\_M  
ClientSampleId :  
EZYK0DL



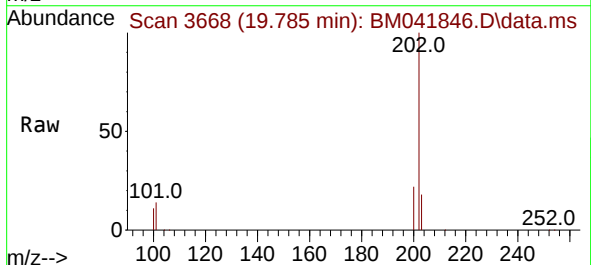
Tgt Ion:202 Resp: 71669  
Ion Ratio Lower Upper  
202 100  
101 12.6 11.0 16.6  
100 9.4 8.2 12.4

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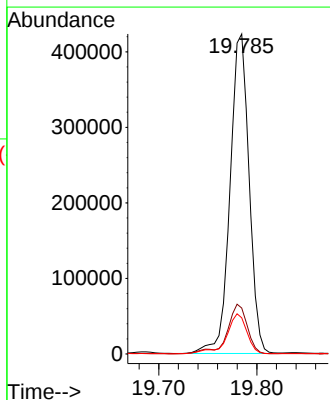
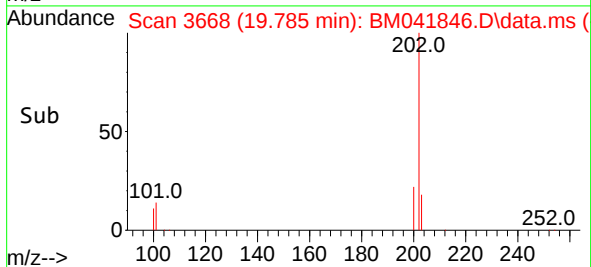
Reviewed By :Yogesh Patel 09/14/2023  
Supervised By :mohammad ahmed 09/15/2023

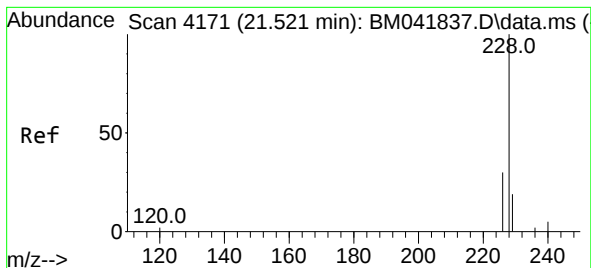


#20  
Pyrene  
Concen: 4.916 ng/u1  
RT: 19.785 min Scan# 3668  
Delta R.T. 0.000 min  
Lab File: BM041846.D  
Acq: 14 Sep 2023 00:56



Tgt Ion:202 Resp: 570392  
Ion Ratio Lower Upper  
202 100  
101 14.4 12.6 19.0  
100 11.3 9.9 14.9





#21

Benzo(a)anthracene

Concen: 2.501 ng/u1

RT: 21.518 min Scan# 4170

Delta R.T. -0.003 min

Lab File: BM041846.D

Acq: 14 Sep 2023 00:56

Instrument :

BNA\_M

ClientSampleId :

EZYK0DL

Tgt Ion:228 Resp: 23610

Ion Ratio Lower Upper

228 100

229 20.4 15.8 23.8

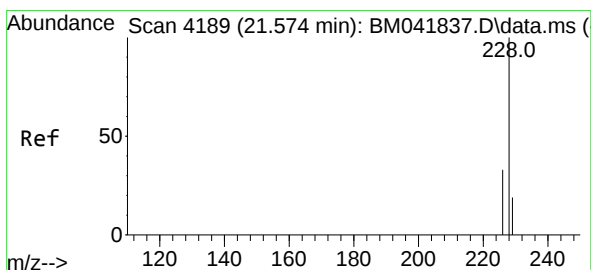
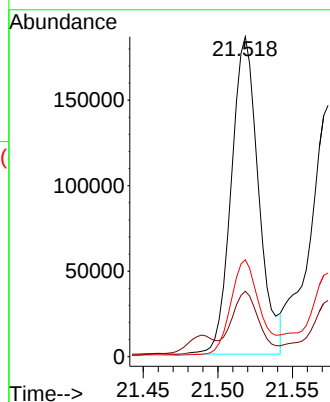
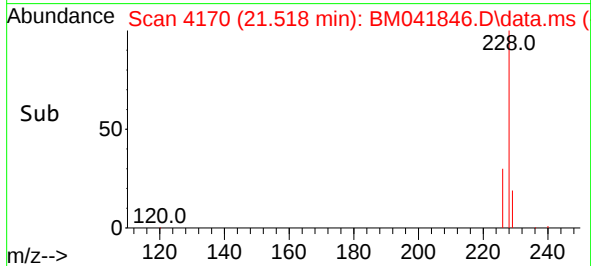
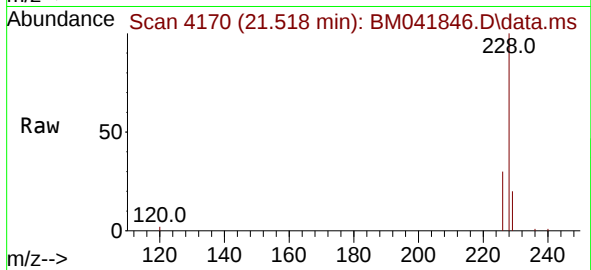
226 30.3 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/14/2023

Supervised By :mohammad ahmed 09/15/2023



#22

Chrysene

Concen: 2.199 ng/u1

RT: 21.574 min Scan# 4189

Delta R.T. -0.003 min

Lab File: BM041846.D

Acq: 14 Sep 2023 00:56

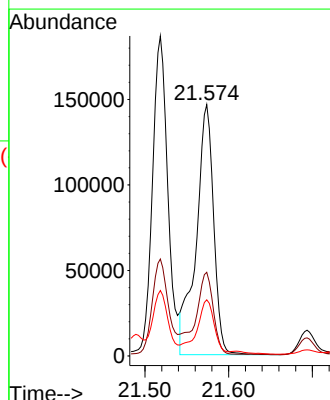
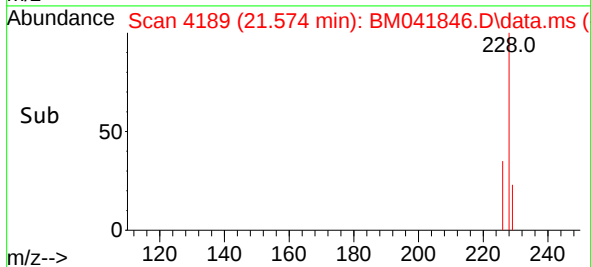
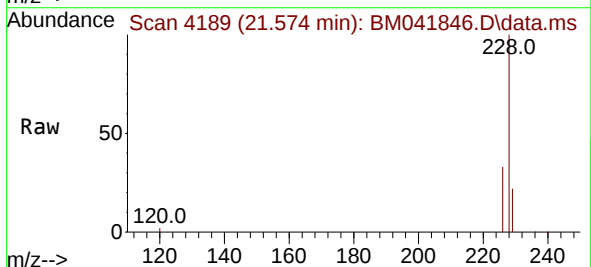
Tgt Ion:228 Resp: 212505

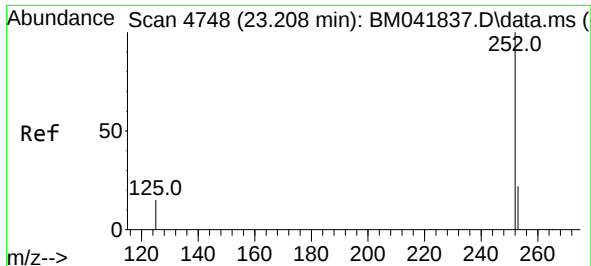
Ion Ratio Lower Upper

228 100

226 33.3 27.0 40.4

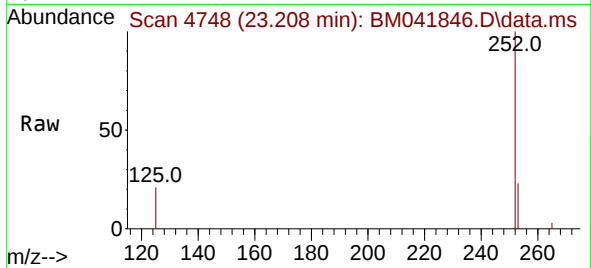
229 22.3 15.7 23.5





#24  
Benzo(b)fluoranthene  
Concen: 2.334 ng/ul  
RT: 23.208 min Scan# 4748  
Delta R.T. 0.000 min  
Lab File: BM041846.D  
Acq: 14 Sep 2023 00:56

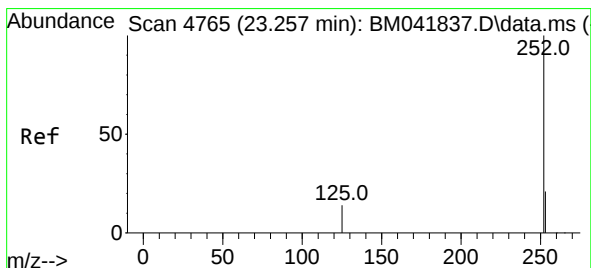
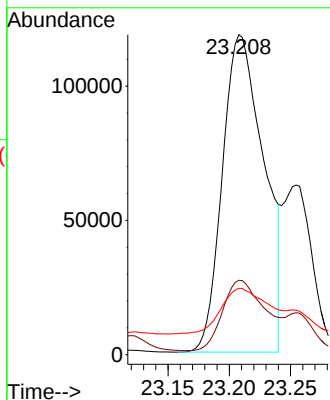
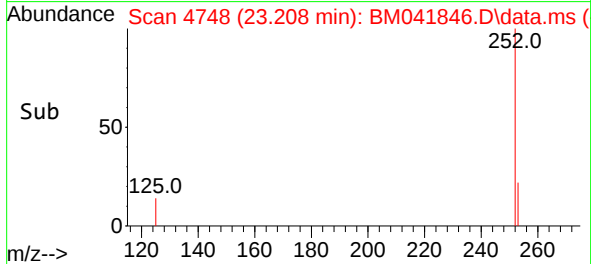
Instrument :  
BNA\_M  
ClientSampleId :  
EZYK0DL



Tgt Ion:252 Resp: 27815  
Ion Ratio Lower Upper  
252 100  
253 23.3 0.0 51.0  
125 20.7 0.0 39.8

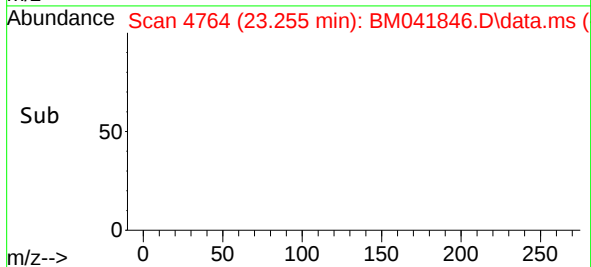
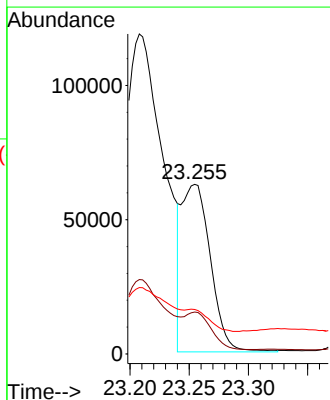
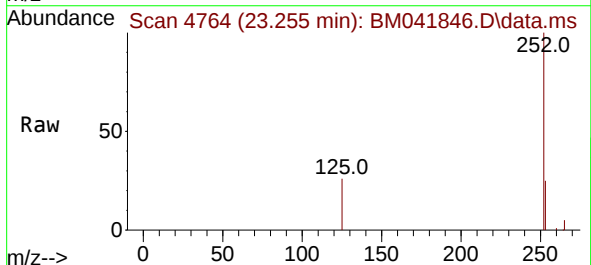
Manual Integrations  
APPROVED

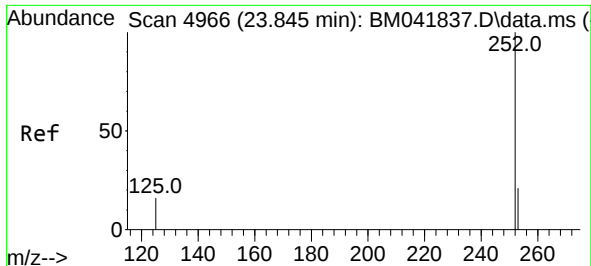
Reviewed By :Yogesh Patel 09/14/2023  
Supervised By :mohammad ahmed 09/15/2023



#25  
Benzo(k)fluoranthene  
Concen: 0.963 ng/ul m  
RT: 23.255 min Scan# 4764  
Delta R.T. -0.006 min  
Lab File: BM041846.D  
Acq: 14 Sep 2023 00:56

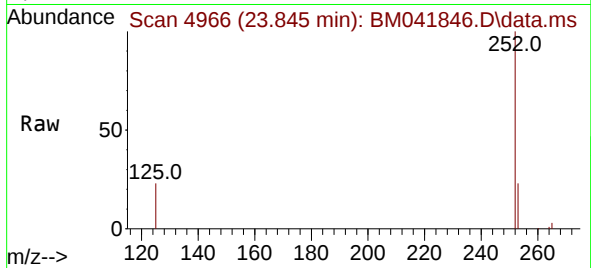
Tgt Ion:252 Resp: 105764  
Ion Ratio Lower Upper  
252 100  
253 24.7 20.2 30.2  
125 26.2 15.8 23.8#





#26  
Benzo(a)pyrene  
Concen: 2.183 ng/ul  
RT: 23.845 min Scan# 4966  
Delta R.T. 0.000 min  
Lab File: BM041846.D  
Acq: 14 Sep 2023 00:56

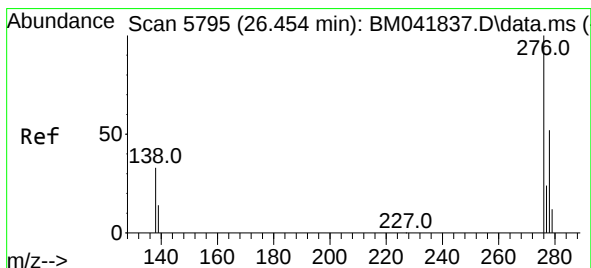
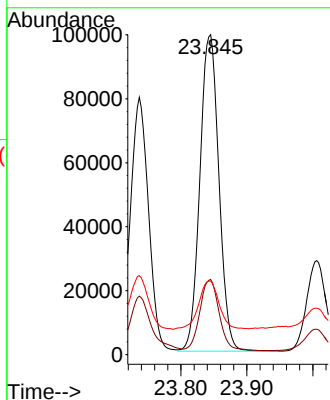
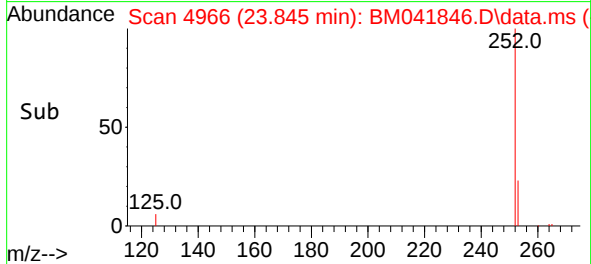
Instrument :  
BNA\_M  
ClientSampleId :  
EZYK0DL



Tgt Ion:252 Resp: 19835  
Ion Ratio Lower Upper  
252 100  
253 23.5 21.8 32.8  
125 23.1 18.8 28.2

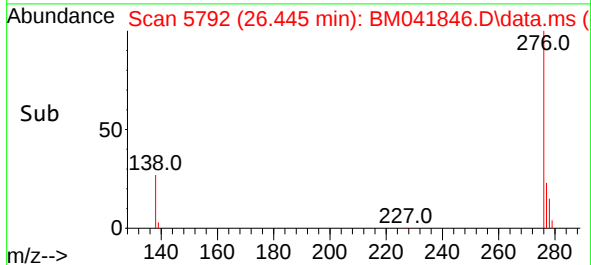
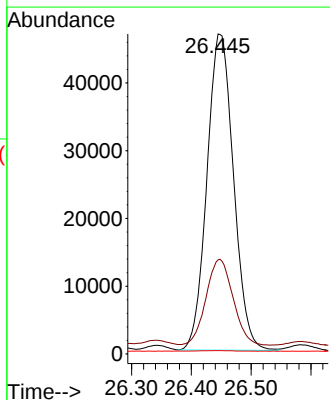
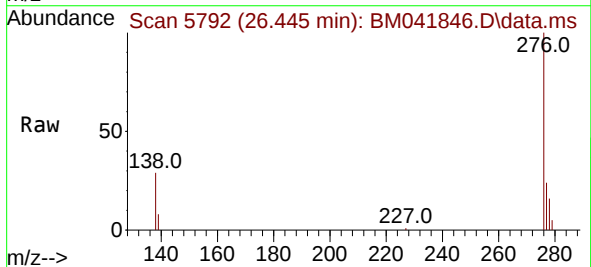
Manual Integrations  
APPROVED

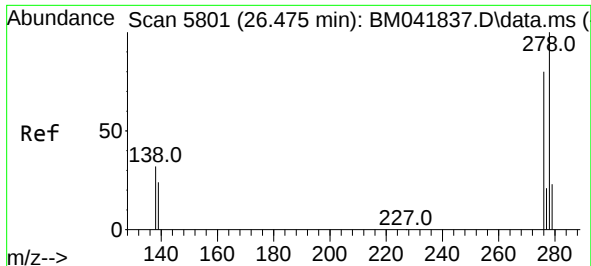
Reviewed By :Yogesh Patel 09/14/2023  
Supervised By :mohammad ahmed 09/15/2023



#27  
Indeno(1,2,3-cd)pyrene  
Concen: 1.032 ng/ul  
RT: 26.445 min Scan# 5792  
Delta R.T. -0.010 min  
Lab File: BM041846.D  
Acq: 14 Sep 2023 00:56

Tgt Ion:276 Resp: 144282  
Ion Ratio Lower Upper  
276 100  
138 27.5 27.7 41.5#  
227 0.2 0.1 0.1#





#28

Dibenzo(a,h)anthracene

Concen: 0.324 ng/ul

RT: 26.458 min Scan# 51

Delta R.T. -0.017 min

Lab File: BM041846.D

Acq: 14 Sep 2023 00:56

Instrument :

BNA\_M

ClientSampleId :

EZYK0DL

Tgt Ion:278 Resp: 3343

Ion Ratio Lower Upper

278 100

139 47.8 20.9 31.3

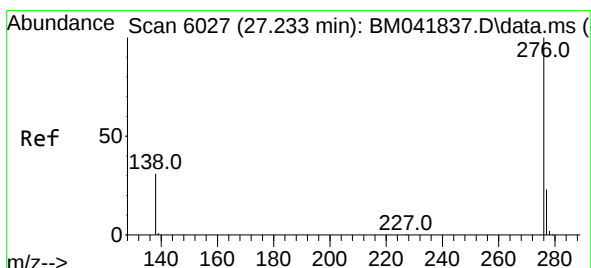
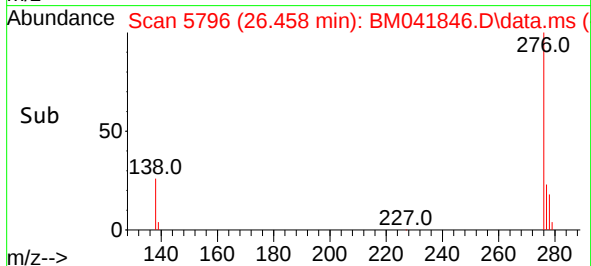
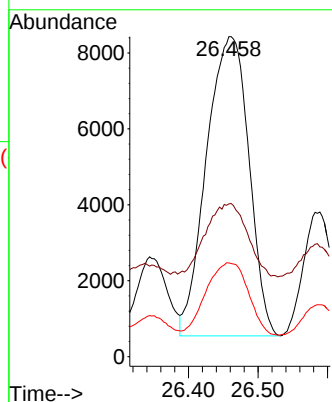
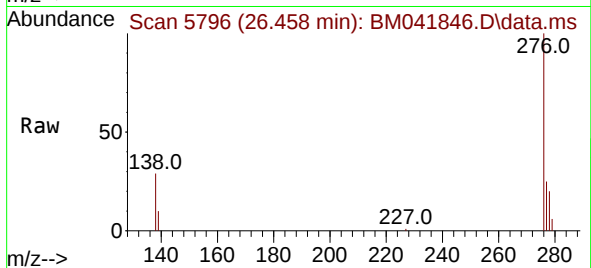
279 29.3 20.3 30.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/14/2023

Supervised By :mohammad ahmed 09/15/2023



#29

Benzo(g,h,i)perylene

Concen: 1.172 ng/ul

RT: 27.233 min Scan# 6027

Delta R.T. -0.003 min

Lab File: BM041846.D

Acq: 14 Sep 2023 00:56

Tgt Ion:276 Resp: 138520

Ion Ratio Lower Upper

276 100

138 30.5 24.7 37.1

277 24.1 19.3 28.9

