

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM050523\  
 Data File : BM039846.D  
 Acq On : 05 May 2023 15:44  
 Operator : CG/JU  
 Sample : 02479-03  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 EW944

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 05/08/2023  
 Supervised By : Jagrut Upadhyay 05/08/2023

Quant Time: May 06 02:47:45 2023  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SFAM-EPA-SIM-BM042723.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat May 06 02:22:07 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.787  | 152  | 1794     | 0.400 | ng/ul  | -0.06    |
| 4) Naphthalene-d8           | 10.584 | 136  | 7584     | 0.400 | ng/ul  | -0.03    |
| 9) Acenaphthene-d10         | 14.437 | 164  | 4718     | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.191 | 188  | 13103    | 0.400 | ng/ul  | #-0.02   |
| 17) Chrysene-d12            | 21.391 | 240  | 8915     | 0.400 | ng/ul  | #-0.01   |
| 23) Perylene-d12            | 23.741 | 264  | 9220     | 0.400 | ng/ul  | # 0.00   |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.172  | 96   | 5331     | 2.016 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.195 | 152  | 1776     | 0.183 | ng/ul  | -0.02    |
| 18) Fluoranthene-d10        | 19.225 | 212  | 5763     | 0.240 | ng/ul  | -0.02    |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.634 | 128  | 3463     | 0.182 | ng/ul# | 92       |
| 7) 2-Methylnaphthalene      | 12.267 | 142  | 2139     | 0.195 | ng/ul  | 99       |
| 8) 1-Methylnaphthalene      | 12.481 | 142  | 1590     | 0.135 | ng/ul  | 99       |
| 10) Acenaphthylene          | 14.159 | 152  | 6939     | 0.380 | ng/ul  | 95       |
| 11) Acenaphthene            | 14.502 | 153  | 1881     | 0.131 | ng/ul  | 97       |
| 12) Fluorene                | 15.492 | 166  | 2840     | 0.178 | ng/ul# | 95       |
| 15) Phenanthrene            | 17.234 | 178  | 72482    | 2.100 | ng/ul  | 99       |
| 16) Anthracene              | 17.322 | 178  | 13562    | 0.458 | ng/ul  | 97       |
| 19) Fluoranthene            | 19.257 | 202  | 171094   | 5.379 | ng/ul  | 98       |
| 20) Pyrene                  | 19.620 | 202  | 190205   | 5.538 | ng/ul  | 99       |
| 21) Benzo(a)anthracene      | 21.373 | 228  | 102595   | 4.003 | ng/ul# | 90       |
| 22) Chrysene                | 21.426 | 228  | 140375   | 4.839 | ng/ul# | 92       |
| 24) Benzo(b)fluoranthene    | 23.024 | 252  | 192193m  | 5.936 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 23.065 | 252  | 53020m   | 1.608 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.632 | 252  | 115419   | 3.970 | ng/ul  | 93       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.164 | 276  | 99699    | 2.712 | ng/ul# | 92       |
| 28) Dibenzo(a,h)anthracene  | 26.167 | 278  | 27300    | 0.957 | ng/ul# | 79       |
| 29) Benzo(g,h,i)perylene    | 26.919 | 276  | 103338   | 3.226 | ng/ul  | 99       |
| -----                       |        |      |          |       |        |          |

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

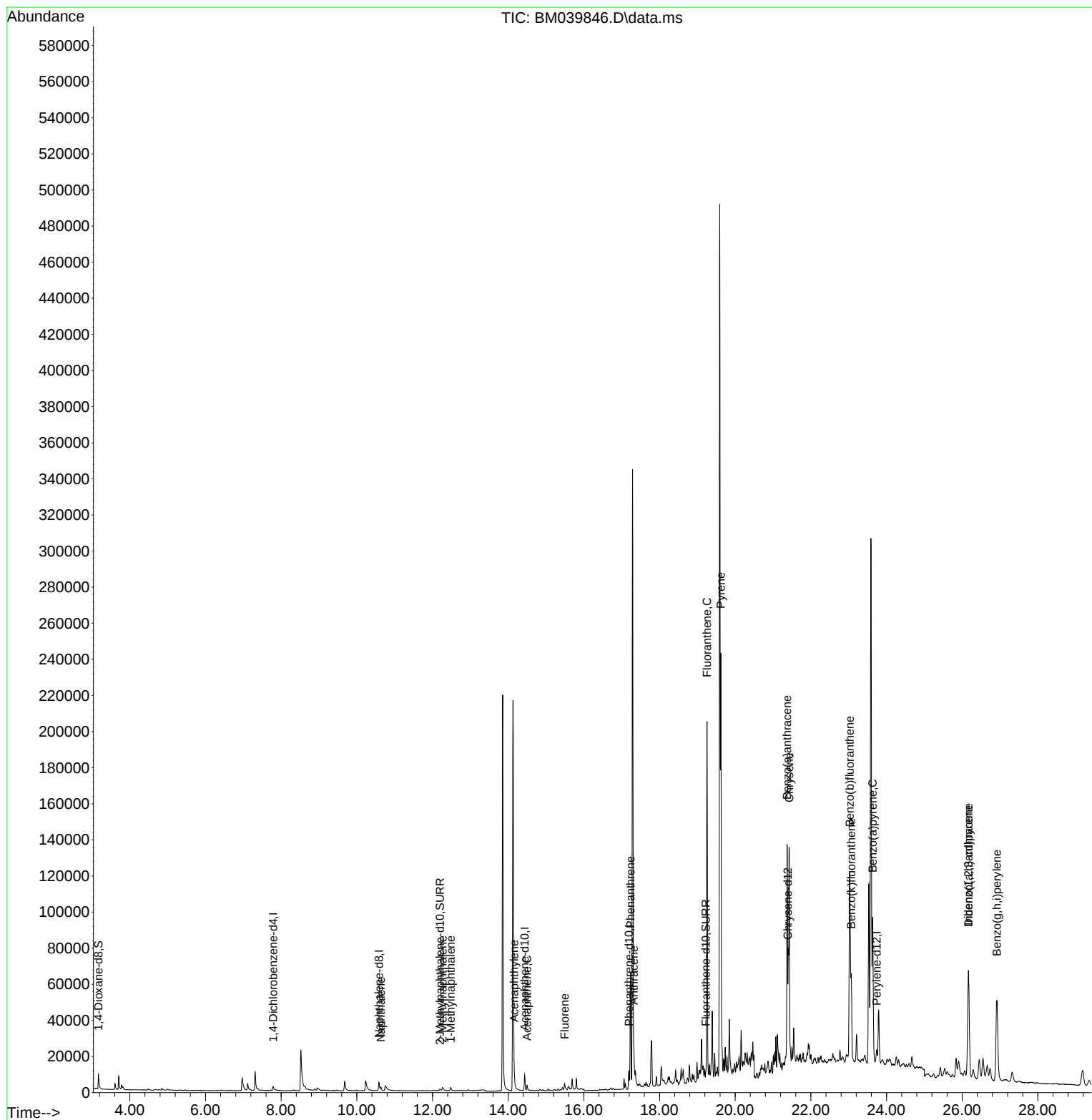
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM050523\  
Data File : BM039846.D  
Acq On : 05 May 2023 15:44  
Operator : CG/JU  
Sample : 02479-03  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

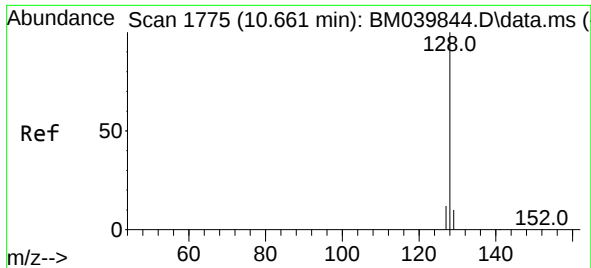
Instrument :  
BNA\_M  
ClientSampleId :  
EW944

Manual Integrations  
APPROVED

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Supervised By :Jagrut Upadhyay 05/08/2023

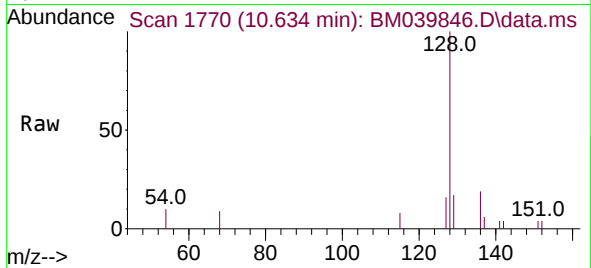
Quant Time: May 06 02:47:45 2023  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SFAM-EPA-SIM-BM042723.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat May 06 02:22:07 2023  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.182 ng/ul  
RT: 10.634 min Scan# 11  
Delta R.T. -0.027 min  
Lab File: BM039846.D  
Acq: 05 May 2023 15:44

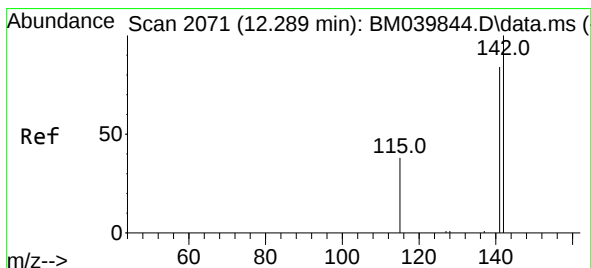
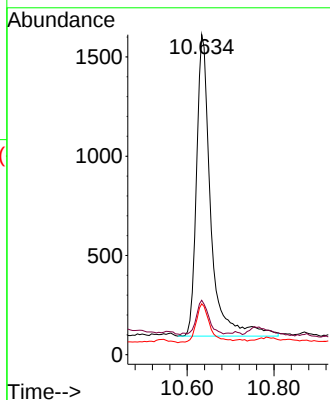
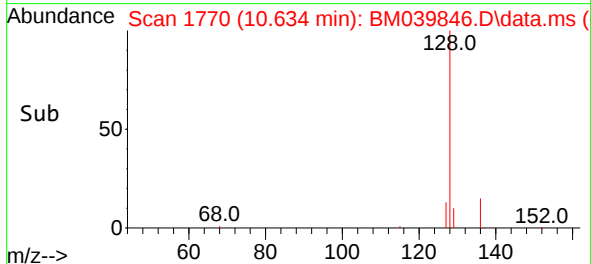
Instrument :  
BNA\_M  
ClientSampleId :  
EW944



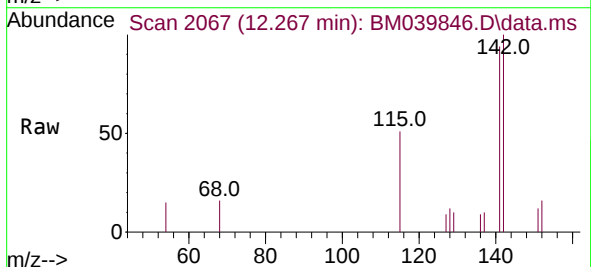
Tgt Ion:128 Resp: 346  
Ion Ratio Lower Upper  
128 100  
129 17.0 9.8 14.6  
127 15.9 11.1 16.7

Manual Integrations  
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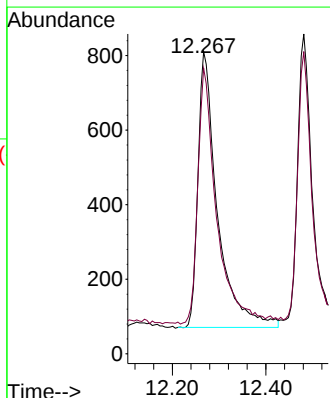
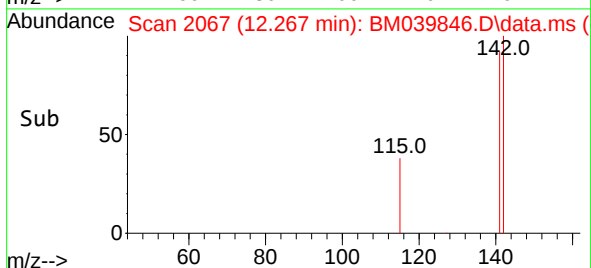
Reviewed By :Christian Giraldo 05/08/2023  
Supervised By :Jagrut Upadhyay 05/08/2023

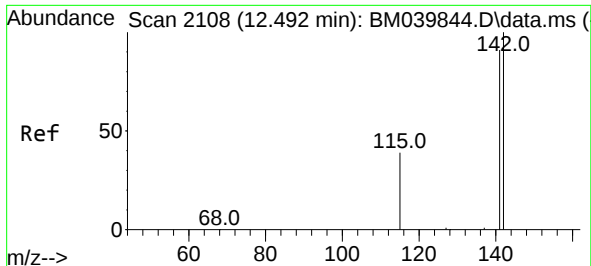


#7  
2-Methylnaphthalene  
Concen: 0.195 ng/ul  
RT: 12.267 min Scan# 2067  
Delta R.T. -0.022 min  
Lab File: BM039846.D  
Acq: 05 May 2023 15:44



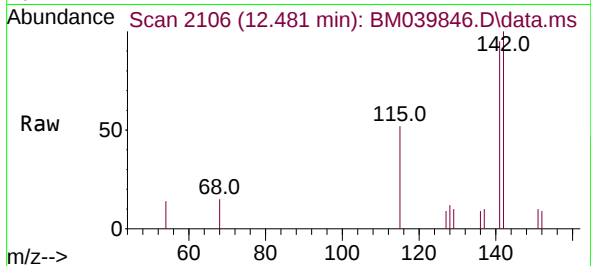
Tgt Ion:142 Resp: 2139  
Ion Ratio Lower Upper  
142 100  
141 90.8 73.2 109.8





#8  
1-Methylnaphthalene  
Concen: 0.135 ng/ul  
RT: 12.481 min Scan# 2106  
Delta R.T. -0.011 min  
Lab File: BM039846.D  
Acq: 05 May 2023 15:44

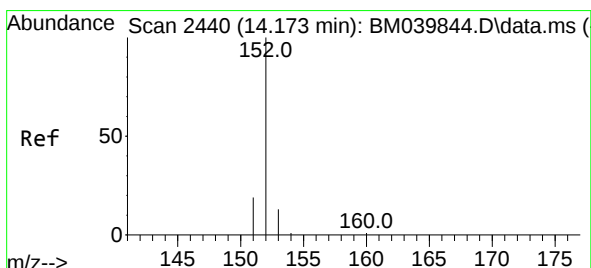
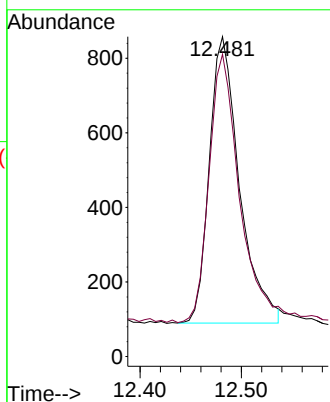
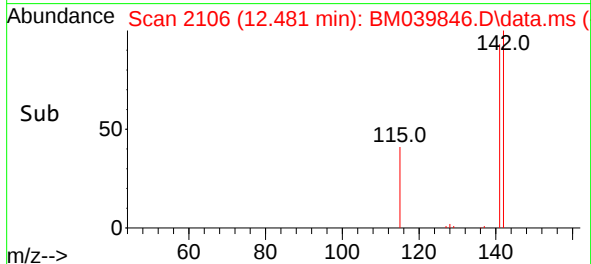
Instrument :  
BNA\_M  
ClientSampleId :  
EW944



Tgt Ion:142 Resp: 1590  
Ion Ratio Lower Upper  
142 100  
141 93.2 73.4 110.2

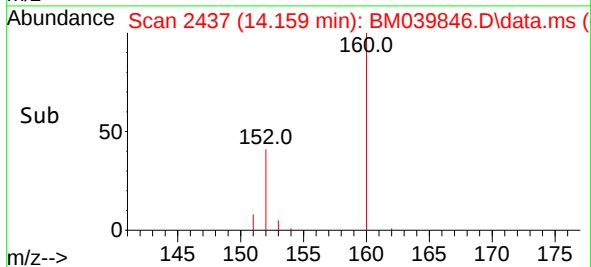
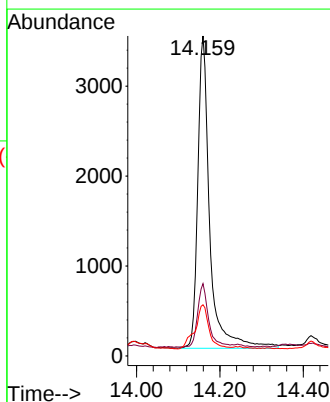
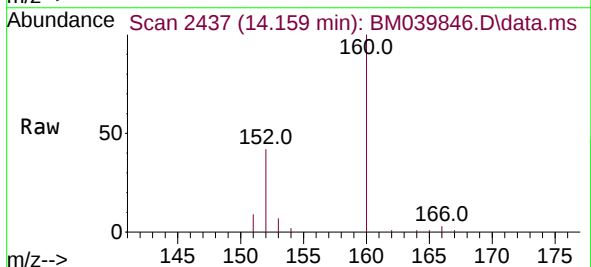
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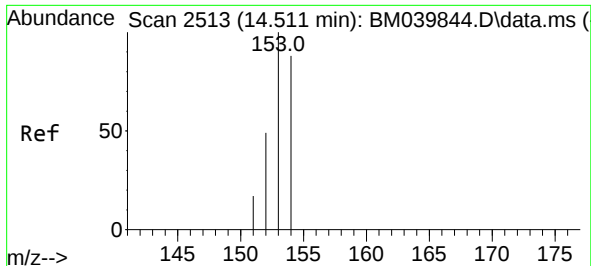
Reviewed By :Christian Giraldo 05/08/2023  
Supervised By :Jagrut Upadhyay 05/08/2023



#10  
Acenaphthylene  
Concen: 0.380 ng/ul  
RT: 14.159 min Scan# 2437  
Delta R.T. -0.014 min  
Lab File: BM039846.D  
Acq: 05 May 2023 15:44

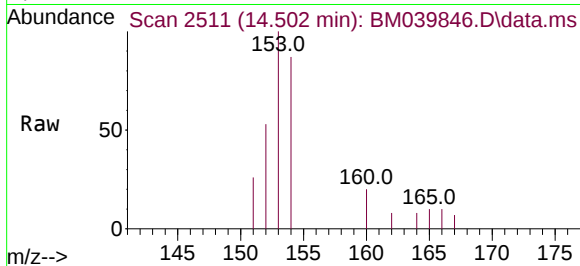
Tgt Ion:152 Resp: 6939  
Ion Ratio Lower Upper  
152 100  
151 22.6 16.0 24.0  
153 16.0 11.2 16.8





#11  
Acenaphthene  
Concen: 0.131 ng/ul  
RT: 14.502 min Scan# 2111  
Delta R.T. -0.009 min  
Lab File: BM039846.D  
Acq: 05 May 2023 15:44

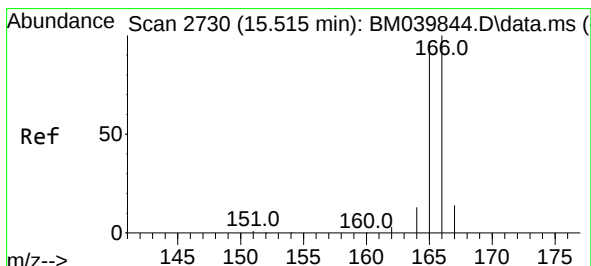
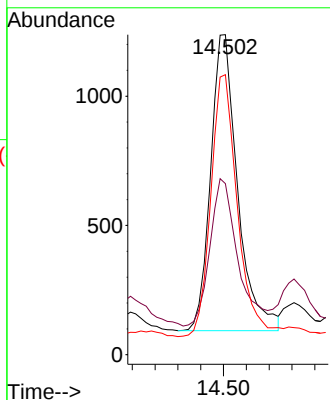
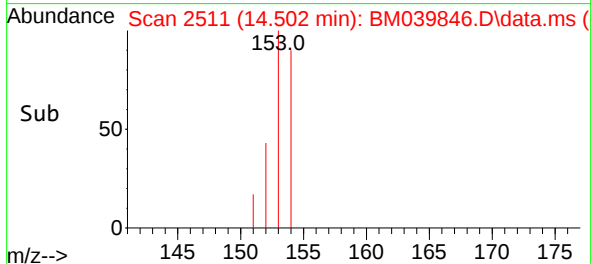
Instrument :  
BNA\_M  
ClientSampleId :  
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Tgt Ion:153 Resp: 188  
Ion Ratio Lower Upper  
153 100  
152 53.5 40.6 61.0  
154 87.5 71.9 107.9

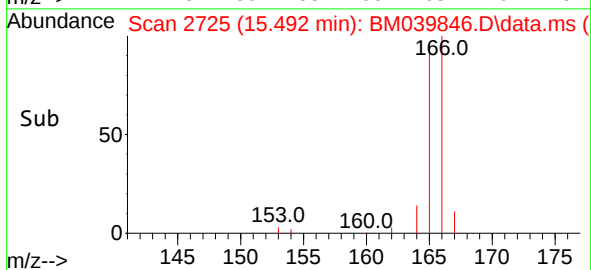
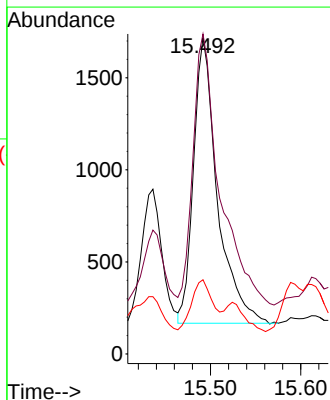
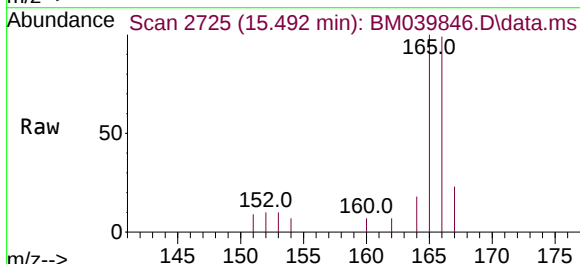
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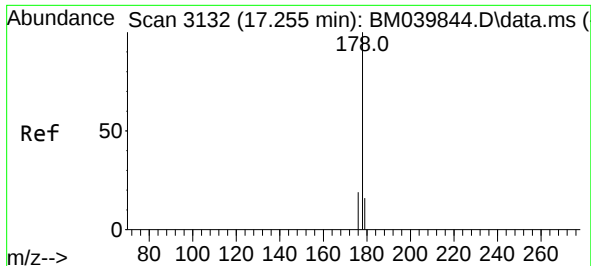
Reviewed By :Christian Giraldo 05/08/2023  
Supervised By :Jagrut Upadhyay 05/08/2023



#12  
Fluorene  
Concen: 0.178 ng/ul  
RT: 15.492 min Scan# 2725  
Delta R.T. -0.023 min  
Lab File: BM039846.D  
Acq: 05 May 2023 15:44

Tgt Ion:166 Resp: 2840  
Ion Ratio Lower Upper  
166 100  
165 101.2 79.0 118.6  
167 23.5 11.8 17.6#





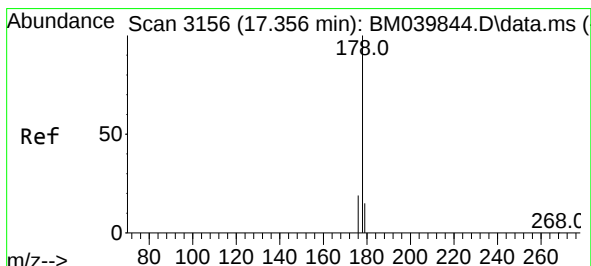
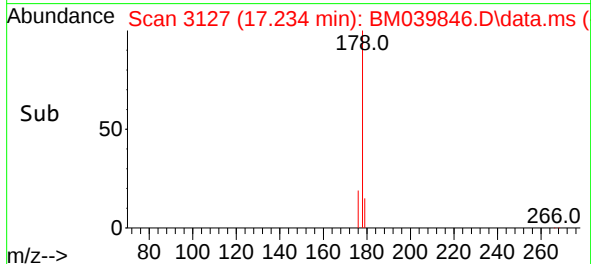
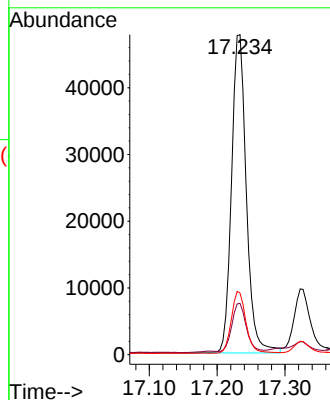
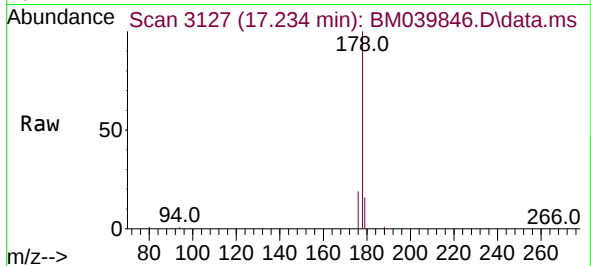
#15  
Phenanthrene  
Concen: 2.100 ng/ul  
RT: 17.234 min Scan# 3127  
Delta R.T. -0.021 min  
Lab File: BM039846.D  
Acq: 05 May 2023 15:44

Instrument :  
BNA\_M  
ClientSampleId :  
EW944

Tgt Ion:178 Resp: 7248  
Ion Ratio Lower Upper  
178 100  
179 16.0 13.0 19.6  
176 19.3 15.8 23.8

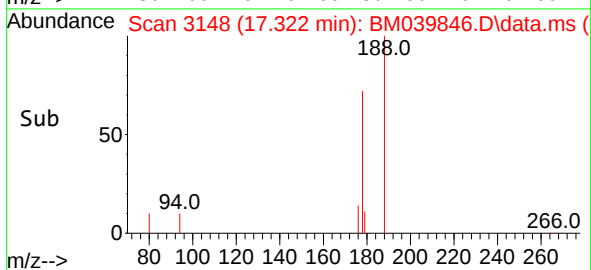
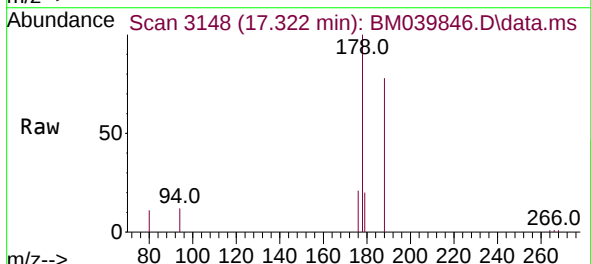
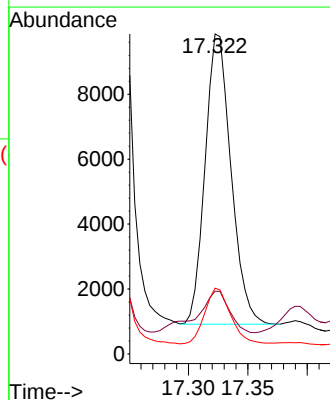
Manual Integrations  
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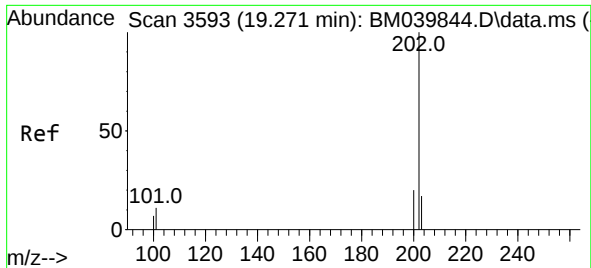
Reviewed By :Christian Giraldo 05/08/2023  
Supervised By :Jagrut Upadhyay 05/08/2023



#16  
Anthracene  
Concen: 0.458 ng/ul  
RT: 17.322 min Scan# 3148  
Delta R.T. -0.034 min  
Lab File: BM039846.D  
Acq: 05 May 2023 15:44

Tgt Ion:178 Resp: 13562  
Ion Ratio Lower Upper  
178 100  
179 19.6 13.8 20.6  
176 20.6 15.8 23.8





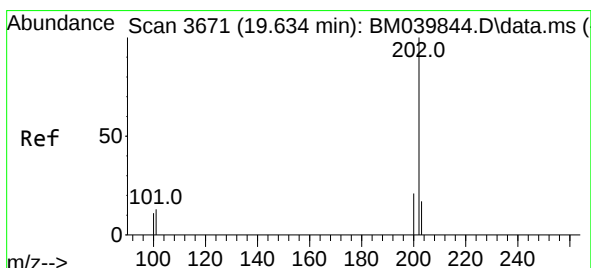
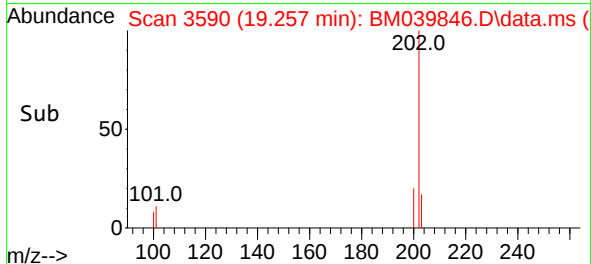
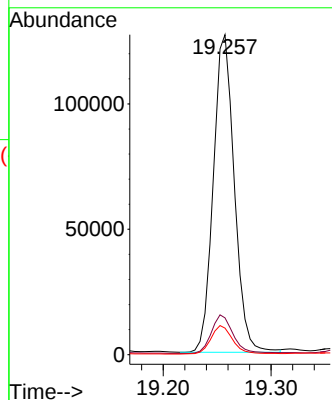
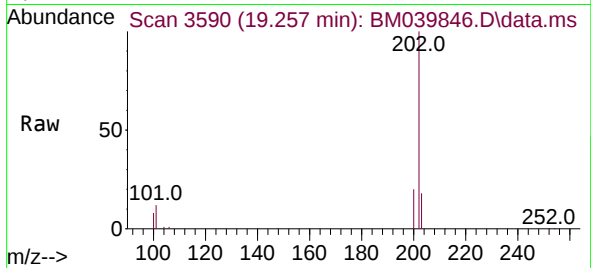
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Fluoranthene  
Concen: 5.379 ng/u1  
RT: 19.257 min Scan# 3590  
Delta R.T. -0.014 min  
Lab File: BM039846.D  
Acq: 05 May 2023 15:44

Instrument :  
BNA\_M  
ClientSampleId :  
EW944

Tgt Ion:202 Resp: 171094  
Ion Ratio Lower Upper  
202 100  
101 11.5 9.8 14.8  
100 8.3 7.3 10.9

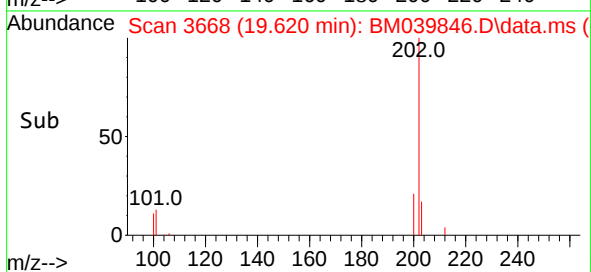
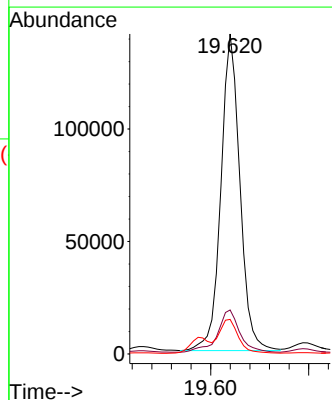
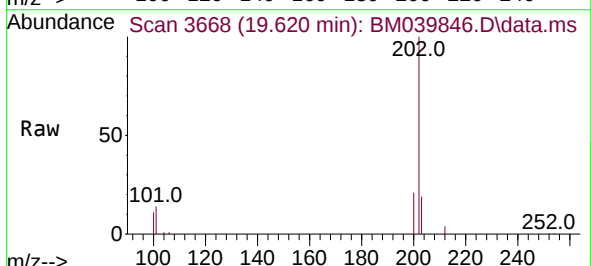
Manual Integrations  
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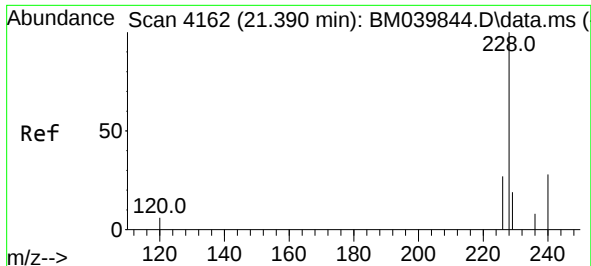
Reviewed By :Christian Giraldo 05/08/2023  
Supervised By :Jagrut Upadhyay 05/08/2023



#20  
Pyrene  
Concen: 5.538 ng/u1  
RT: 19.620 min Scan# 3668  
Delta R.T. -0.014 min  
Lab File: BM039846.D  
Acq: 05 May 2023 15:44

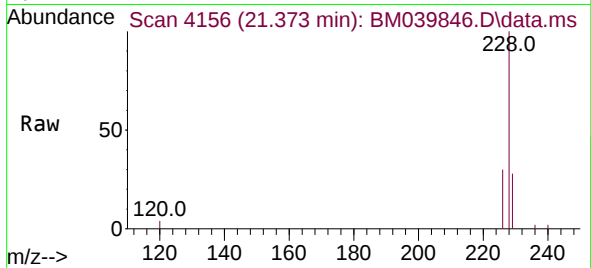
Tgt Ion:202 Resp: 190205  
Ion Ratio Lower Upper  
202 100  
101 13.8 10.9 16.3  
100 10.8 8.9 13.3





#21  
Benzo(a)anthracene  
Concen: 4.003 ng/u1  
RT: 21.373 min Scan# 41  
Delta R.T. -0.017 min  
Lab File: BM039846.D  
Acq: 05 May 2023 15:44

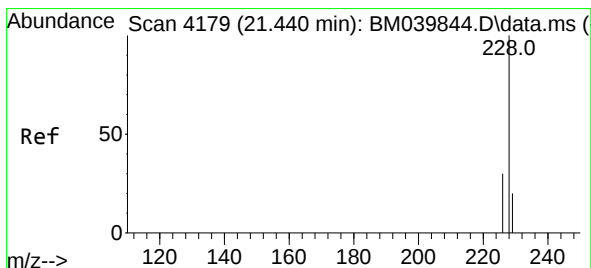
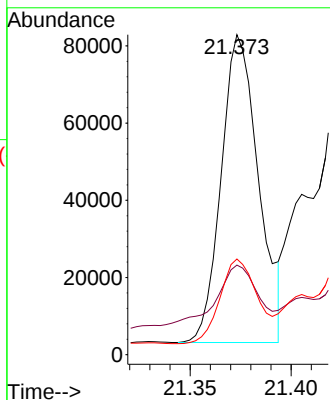
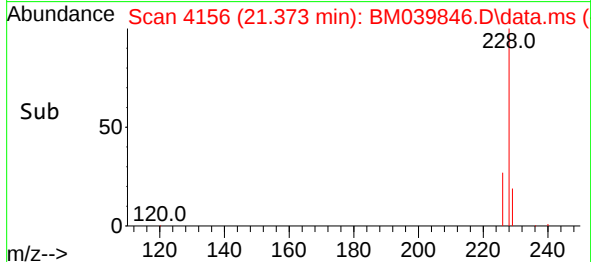
Instrument :  
BNA\_M  
ClientSampleId :  
EW944



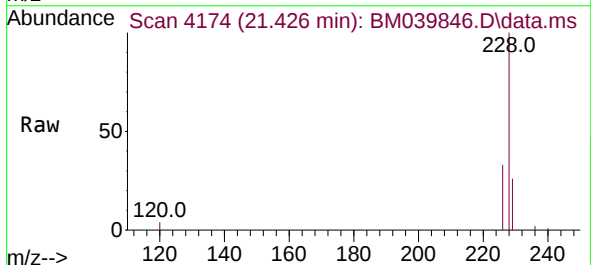
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Ion Ratio Lower Upper  
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226 29.9 21.6 32.4

Manual Integrations  
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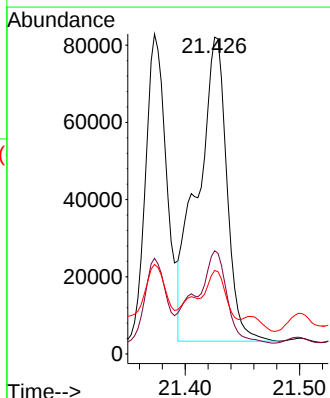
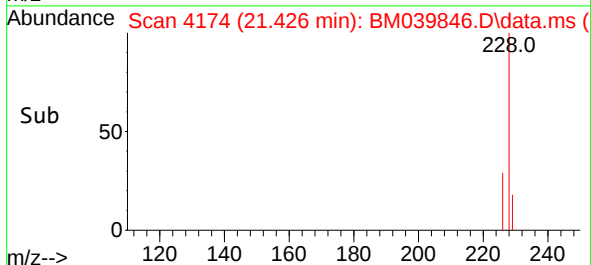
Reviewed By :Christian Giraldo 05/08/2023  
Supervised By :Jagrut Upadhyay 05/08/2023

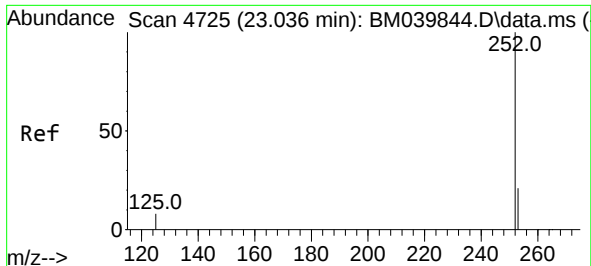


#22  
Chrysene  
Concen: 4.839 ng/u1  
RT: 21.426 min Scan# 4174  
Delta R.T. -0.014 min  
Lab File: BM039846.D  
Acq: 05 May 2023 15:44



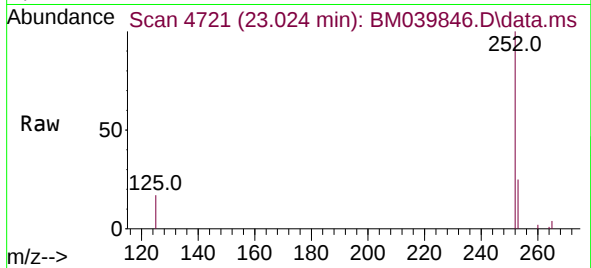
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Ion Ratio Lower Upper  
228 100  
226 32.6 24.3 36.5  
229 26.4 15.9 23.9#





#24  
Benzo(b)fluoranthene  
Concen: 5.936 ng/ul m  
RT: 23.024 min Scan# 4721  
Delta R.T. -0.012 min  
Lab File: BM039846.D  
Acq: 05 May 2023 15:44

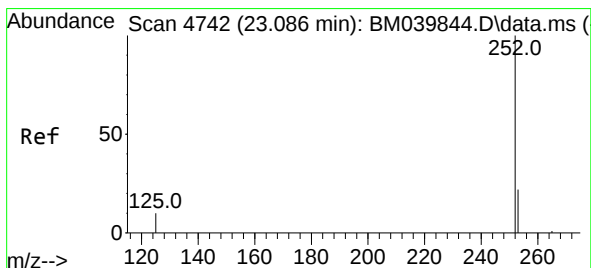
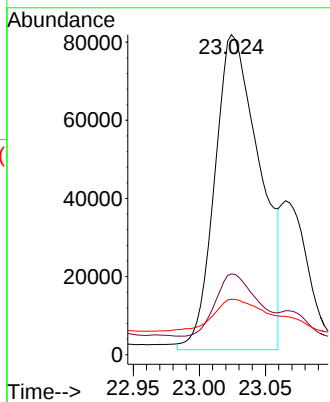
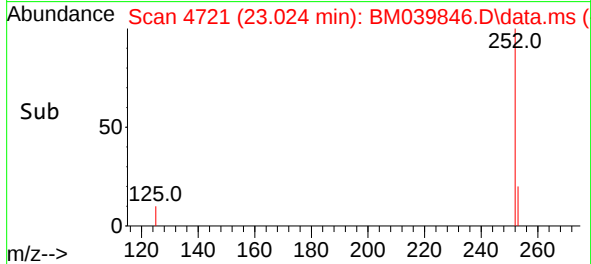
Instrument :  
BNA\_M  
ClientSampleId :  
EW944



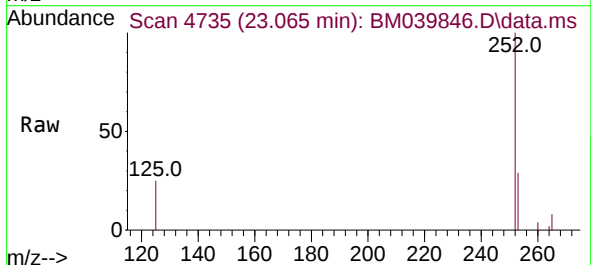
Tgt Ion:252 Resp: 19219  
Ion Ratio Lower Upper  
252 100  
253 25.3 0.0 52.8  
125 17.3 0.0 31.6

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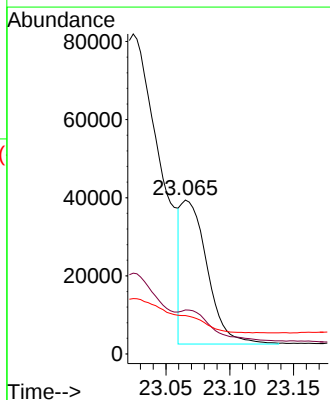
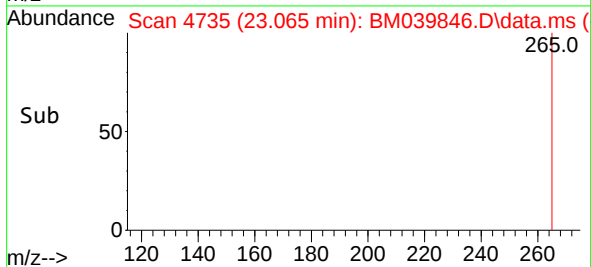
Reviewed By :Christian Giraldo 05/08/2023  
Supervised By :Jagrut Upadhyay 05/08/2023

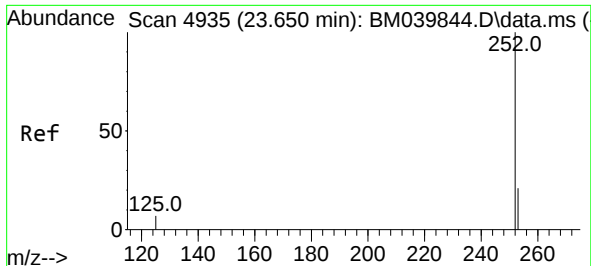


#25  
Benzo(k)fluoranthene  
Concen: 1.608 ng/ul m  
RT: 23.065 min Scan# 4735  
Delta R.T. -0.020 min  
Lab File: BM039846.D  
Acq: 05 May 2023 15:44



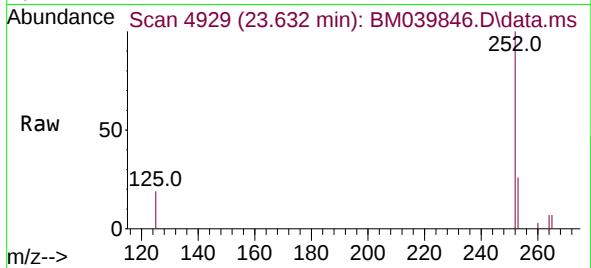
Tgt Ion:252 Resp: 53020  
Ion Ratio Lower Upper  
252 100  
253 28.6 21.3 31.9  
125 25.0 13.0 19.6#





#26  
Benzo(a)pyrene  
Concen: 3.970 ng/ul  
RT: 23.632 min Scan# 4935  
Delta R.T. -0.017 min  
Lab File: BM039846.D  
Acq: 05 May 2023 15:44

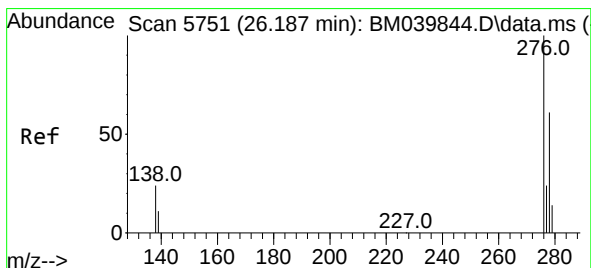
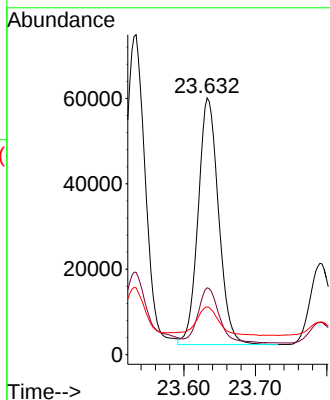
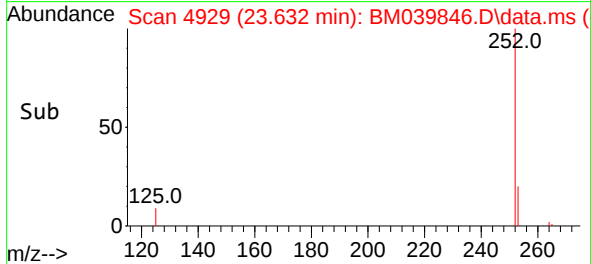
Instrument :  
BNA\_M  
ClientSampleId :  
EW944



Tgt Ion:252 Resp: 115419  
Ion Ratio Lower Upper  
252 100  
253 26.1 24.7 37.1  
125 18.6 16.5 24.7

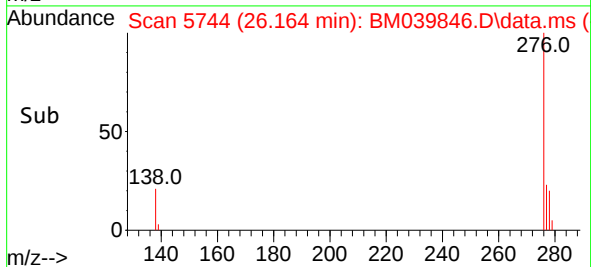
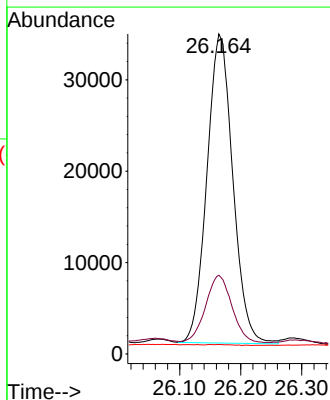
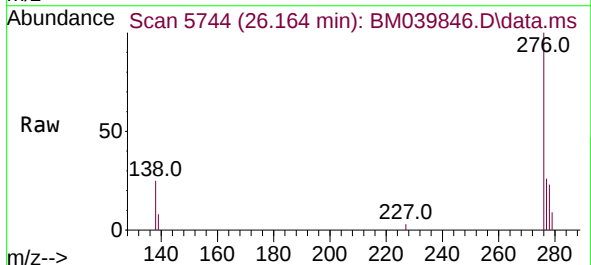
Manual Integrations  
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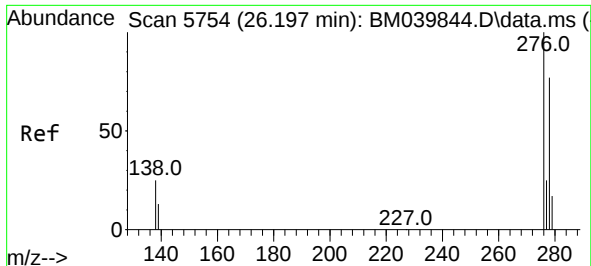
Reviewed By :Christian Giraldo 05/08/2023  
Supervised By :Jagrut Upadhyay 05/08/2023



#27  
Indeno(1,2,3-cd)pyrene  
Concen: 2.712 ng/ul  
RT: 26.164 min Scan# 5744  
Delta R.T. -0.023 min  
Lab File: BM039846.D  
Acq: 05 May 2023 15:44

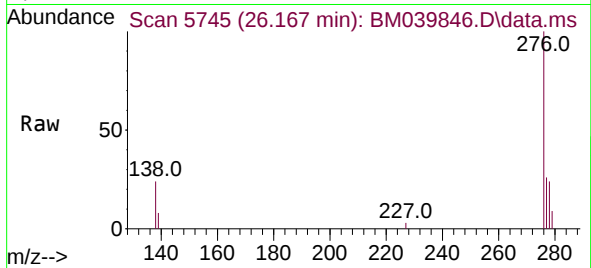
Tgt Ion:276 Resp: 99699  
Ion Ratio Lower Upper  
276 100  
138 22.2 21.1 31.7  
227 0.2 0.1 0.1#





#28  
Dibenzo(a,h)anthracene  
Concen: 0.957 ng/ul  
RT: 26.167 min Scan# 51  
Delta R.T. -0.030 min  
Lab File: BM039846.D  
Acq: 05 May 2023 15:44

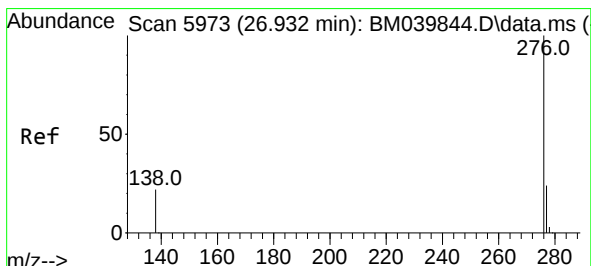
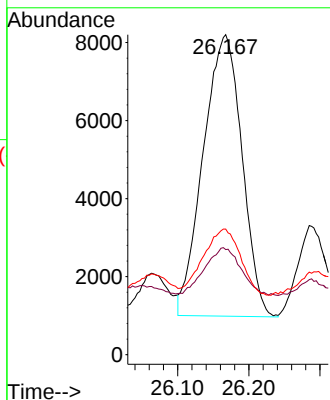
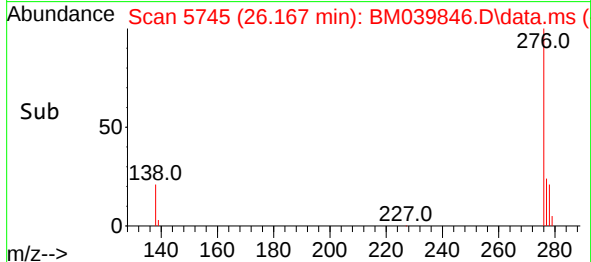
Instrument :  
BNA\_M  
ClientSampleId :  
EW944



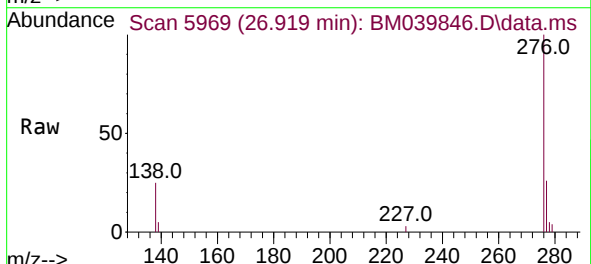
Tgt Ion:278 Resp: 27300  
Ion Ratio Lower Upper  
278 100  
139 32.9 17.0 25.6  
279 39.2 23.4 35.2

Manual Integrations  
APPROVED

Reviewed By :Christian Giraldo 05/08/2023  
Supervised By :Jagrut Upadhyay 05/08/2023



#29  
Benzo(g,h,i)perylene  
Concen: 3.226 ng/ul  
RT: 26.919 min Scan# 5969  
Delta R.T. -0.013 min  
Lab File: BM039846.D  
Acq: 05 May 2023 15:44



Tgt Ion:276 Resp: 103338  
Ion Ratio Lower Upper  
276 100  
138 24.6 20.1 30.1  
277 25.7 20.1 30.1

