

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
 Data File : BM045939.D  
 Acq On : 09 Jun 2024 05:37  
 Operator : MA/JU  
 Sample : P2640-22DL 5X  
 Misc :  
 ALS Vial : 68 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4C35DL

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 06/10/2024  
 Supervised By :mohammad ahmed 06/13/2024

Quant Time: Jun 10 01:32:19 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 07 22:59:16 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.463  | 152  | 5631     | 0.400 | ng/ul  | -0.02    |
| 4) Naphthalene-d8           | 10.242 | 136  | 17843    | 0.400 | ng/ul  | -0.01    |
| 9) Acenaphthene-d10         | 14.112 | 164  | 9697     | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 16.853 | 188  | 19033    | 0.400 | ng/ul  | -0.01    |
| 17) Chrysene-d12            | 21.044 | 240  | 15416    | 0.400 | ng/ul  | 0.00     |
| 23) Perylene-d12            | 23.151 | 264  | 17131m   | 0.400 | ng/ul  | -0.01    |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.063  | 96   | 5037     | 0.785 | ng/ul  | -0.02    |
| 6) 2-Methylnaphthalene-d10  | 11.859 | 152  | 1137     | 0.044 | ng/ul  | 0.01     |
| 18) Fluoranthene-d10        | 18.885 | 212  | 2400     | 0.052 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       | Qvalue |          |
| 10) Acenaphthylene          | 13.830 | 152  | 1169     | 0.027 | ng/ul# | 84       |
| 11) Acenaphthene            | 14.172 | 153  | 774      | 0.024 | ng/ul  | 93       |
| 12) Fluorene                | 15.162 | 166  | 798      | 0.022 | ng/ul# | 93       |
| 15) Phenanthrene            | 16.891 | 178  | 12904    | 0.241 | ng/ul  | 98       |
| 16) Anthracene              | 16.984 | 178  | 2832     | 0.062 | ng/ul# | 87       |
| 19) Fluoranthene            | 18.912 | 202  | 23303    | 0.379 | ng/ul  | 99       |
| 20) Pyrene                  | 19.275 | 202  | 22291    | 0.348 | ng/ul  | 98       |
| 21) Benzo(a)anthracene      | 21.029 | 228  | 10512    | 0.186 | ng/ul  | 95       |
| 22) Chrysene                | 21.079 | 228  | 12111m   | 0.197 | ng/ul  |          |
| 24) Benzo(b)fluoranthene    | 22.528 | 252  | 15030m   | 0.265 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 22.563 | 252  | 6264m    | 0.100 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.054 | 252  | 10570    | 0.187 | ng/ul  | 93       |
| 27) Indeno(1,2,3-cd)pyrene  | 25.212 | 276  | 8202     | 0.112 | ng/ul# | 89       |
| 28) Dibenzo(a,h)anthracene  | 25.219 | 278  | 1887     | 0.032 | ng/ul# | 19       |
| 29) Benzo(g,h,i)perylene    | 25.843 | 276  | 8459     | 0.134 | ng/ul  | 93       |
| -----                       |        |      |          |       |        |          |

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

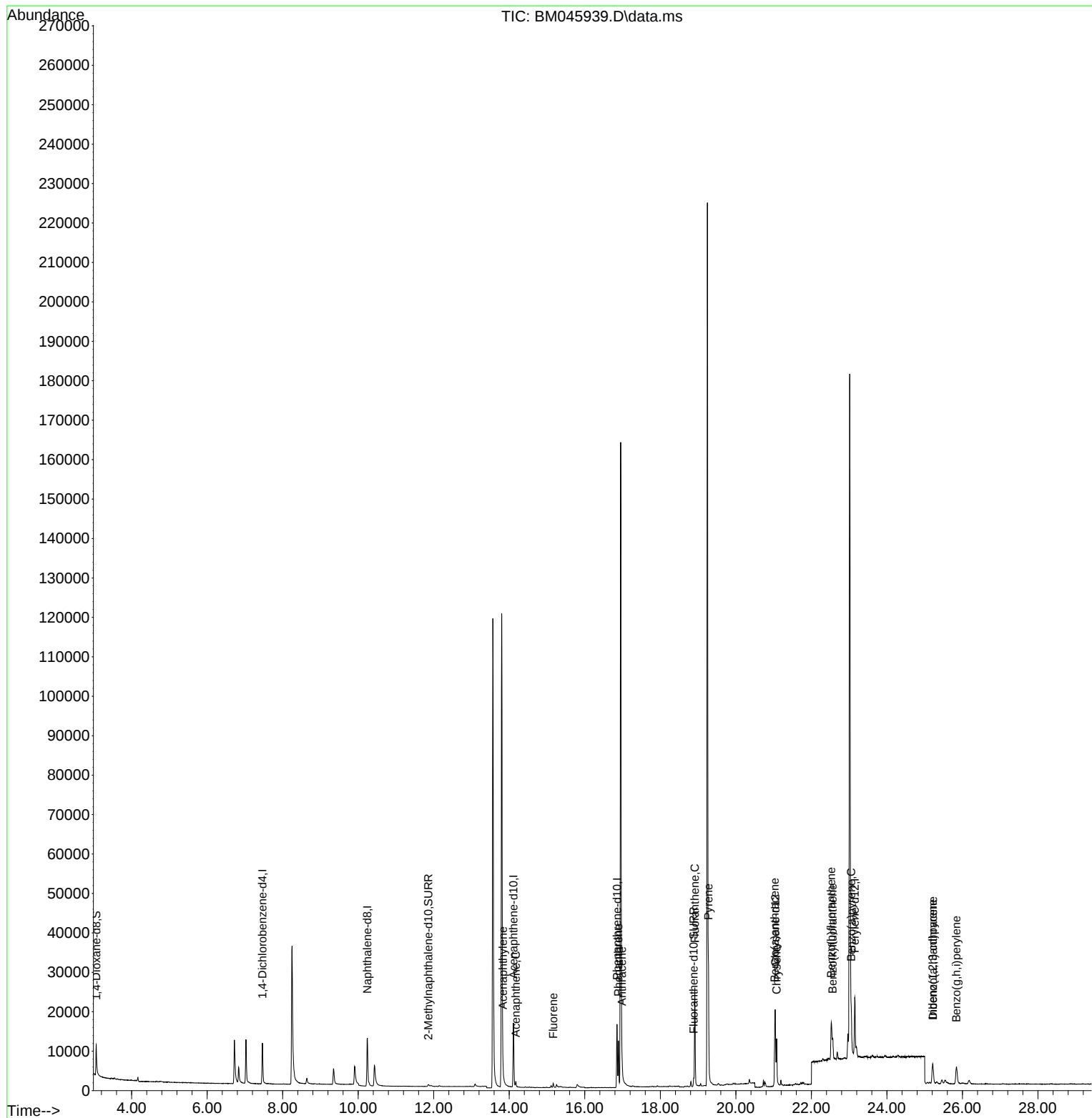
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
Data File : BM045939.D  
Acq On : 09 Jun 2024 05:37  
Operator : MA/JU  
Sample : P2640-22DL 5X  
Misc :  
ALS Vial : 68 Sample Multiplier: 1

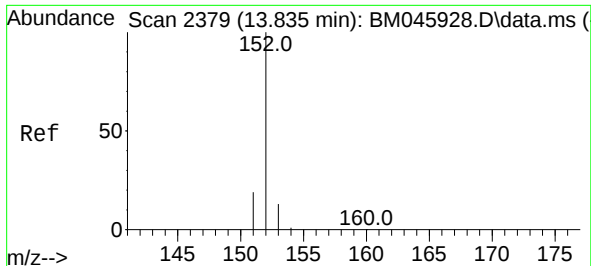
Instrument :  
BNA\_M  
ClientSampleId :  
A4C35DL

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Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024

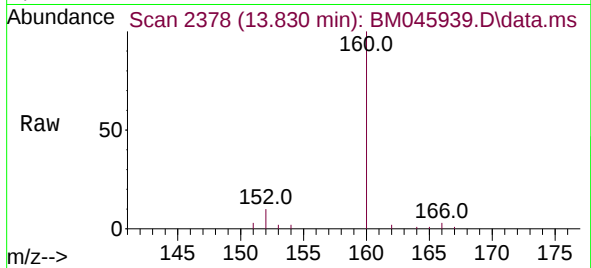
Quant Time: Jun 10 01:32:19 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 07 22:59:16 2024  
Response via : Initial Calibration





#10  
Acenaphthylene  
Concen: 0.027 ng/ul  
RT: 13.830 min Scan# 2419  
Delta R.T. -0.009 min  
Lab File: BM045939.D  
Acq: 09 Jun 2024 05:37

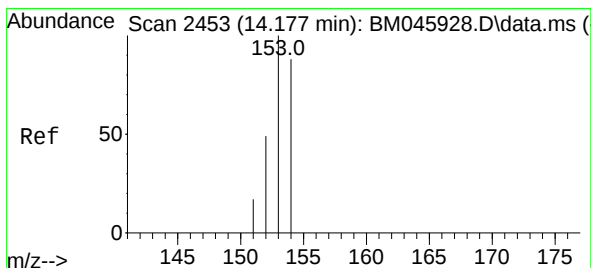
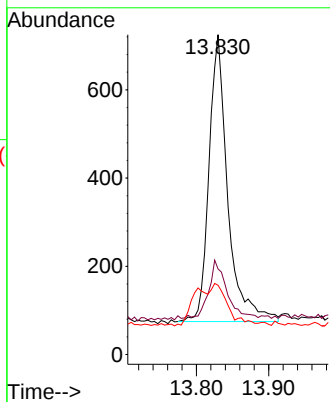
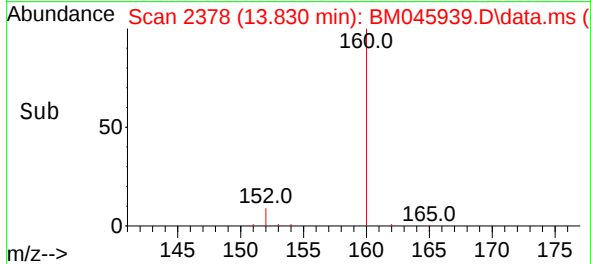
Instrument :  
BNA\_M  
ClientSampleId :  
A4C35DL



Tgt Ion:152 Resp: 1169  
Ion Ratio Lower Upper  
152 100  
151 26.8 16.4 24.6  
153 21.7 11.1 16.7

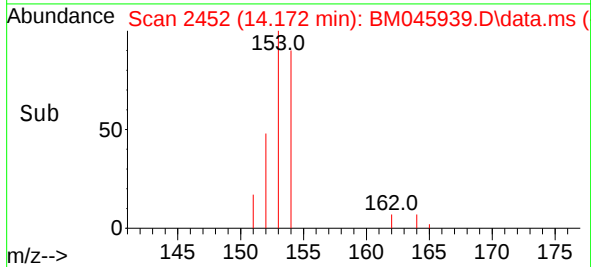
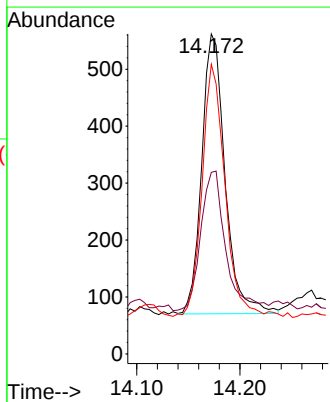
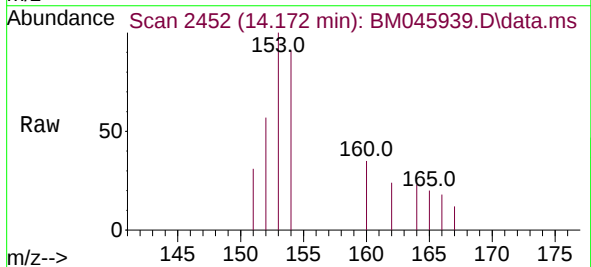
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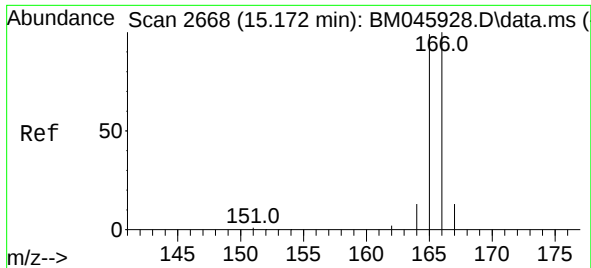
Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



#11  
Acenaphthene  
Concen: 0.024 ng/ul  
RT: 14.172 min Scan# 2452  
Delta R.T. -0.009 min  
Lab File: BM045939.D  
Acq: 09 Jun 2024 05:37

Tgt Ion:153 Resp: 774  
Ion Ratio Lower Upper  
153 100  
152 56.8 39.0 58.4  
154 90.6 69.4 104.2





#12

Fluorene

Concen: 0.022 ng/ul

RT: 15.162 min Scan# 20

Delta R.T. -0.014 min

Lab File: BM045939.D

Acq: 09 Jun 2024 05:37

Instrument :

BNA\_M

ClientSampleId :

A4C35DL

Tgt Ion:166 Resp: 798

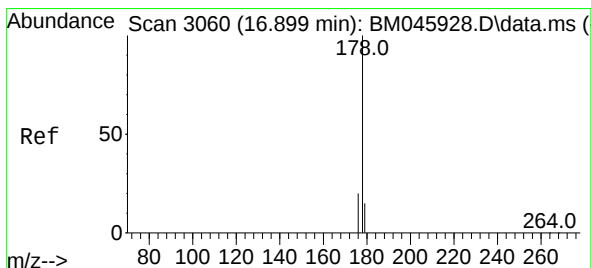
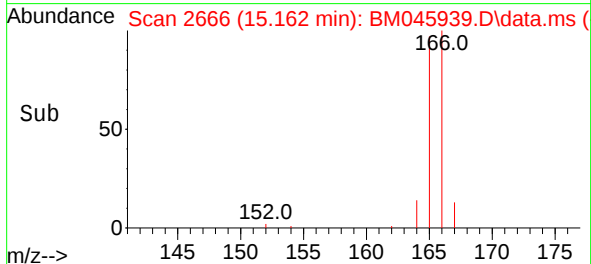
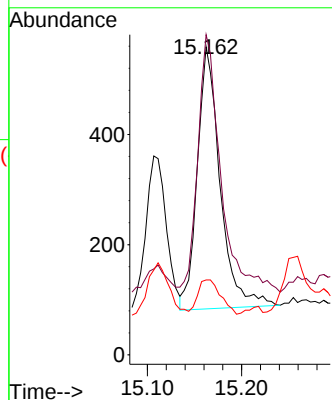
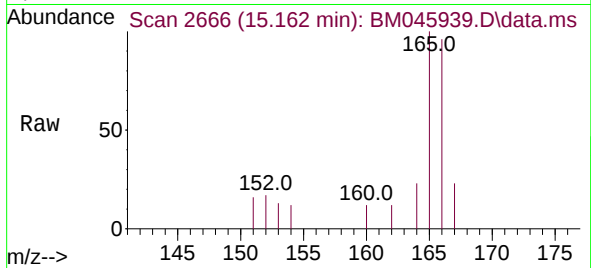
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 166 | 100   |       |       |
| 165 | 103.9 | 79.7  | 119.5 |
| 167 | 24.3  | 11.3  | 16.9  |

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#15

Phenanthrene

Concen: 0.241 ng/ul

RT: 16.891 min Scan# 3058

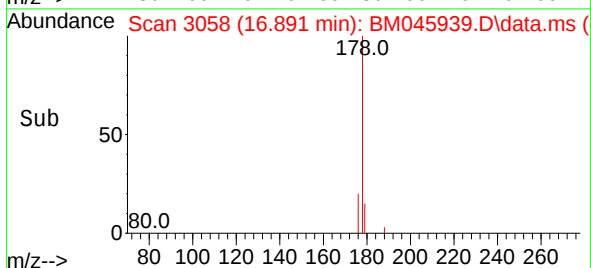
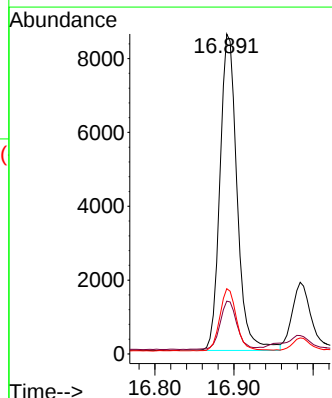
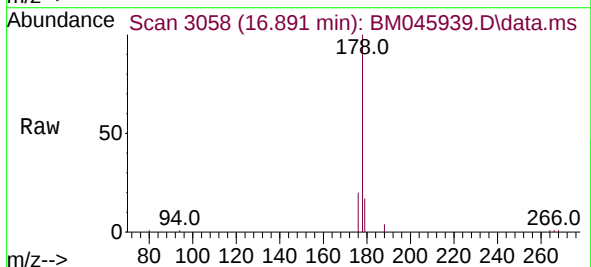
Delta R.T. -0.013 min

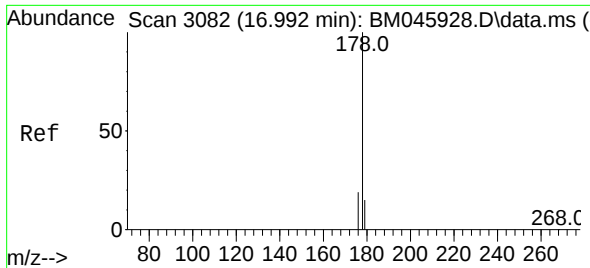
Lab File: BM045939.D

Acq: 09 Jun 2024 05:37

Tgt Ion:178 Resp: 12904

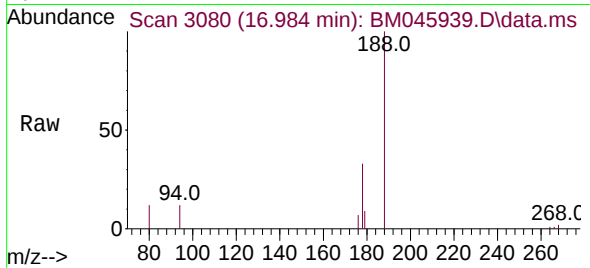
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 16.5  | 12.7  | 19.1  |
| 176 | 20.4  | 15.6  | 23.4  |





#16  
Anthracene  
Concen: 0.062 ng/ul  
RT: 16.984 min Scan# 3082  
Delta R.T. -0.013 min  
Lab File: BM045939.D  
Acq: 09 Jun 2024 05:37

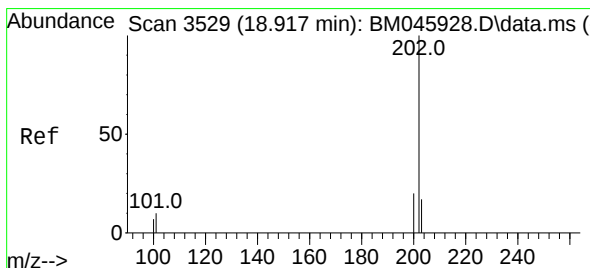
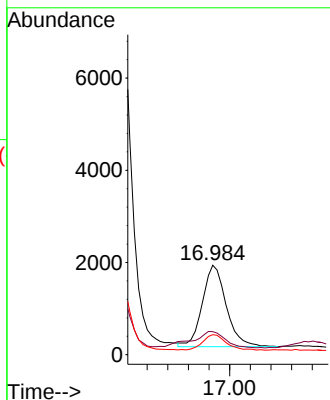
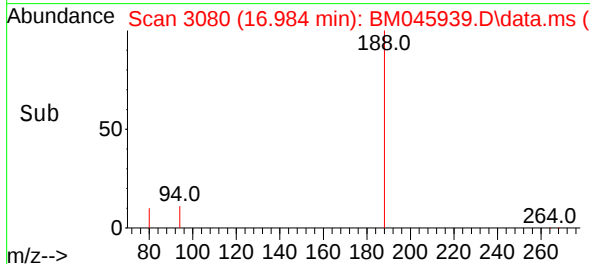
Instrument :  
BNA\_M  
ClientSampleId :  
A4C35DL



Tgt Ion:178 Resp: 2832  
Ion Ratio Lower Upper  
178 100  
179 25.7 13.1 19.7  
176 22.3 15.5 23.3

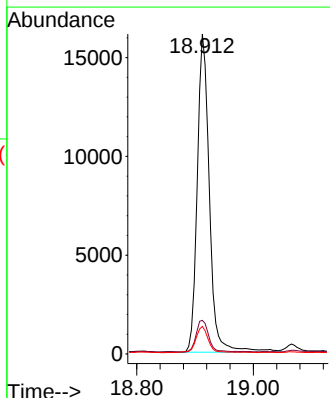
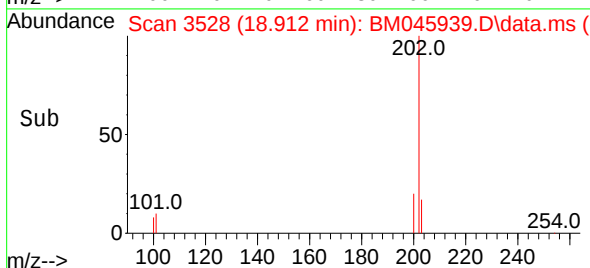
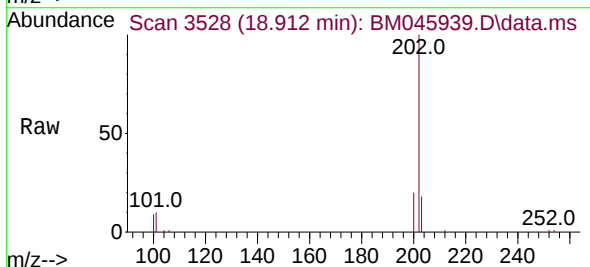
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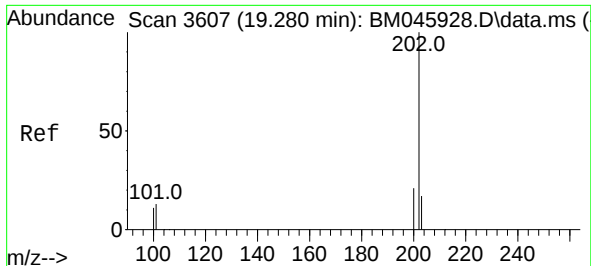
Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



#19  
Fluoranthene  
Concen: 0.379 ng/ul  
RT: 18.912 min Scan# 3528  
Delta R.T. -0.009 min  
Lab File: BM045939.D  
Acq: 09 Jun 2024 05:37

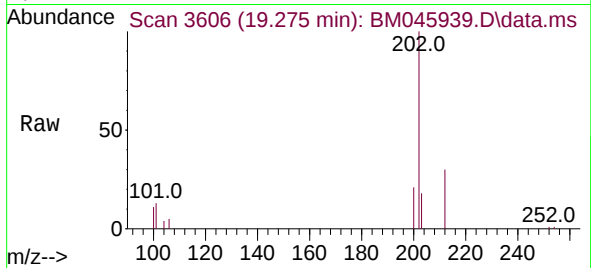
Tgt Ion:202 Resp: 23303  
Ion Ratio Lower Upper  
202 100  
101 10.5 9.0 13.6  
100 8.6 7.0 10.6





#20  
Pyrene  
Concen: 0.348 ng/ul  
RT: 19.275 min Scan# 3606  
Delta R.T. -0.009 min  
Lab File: BM045939.D  
Acq: 09 Jun 2024 05:37

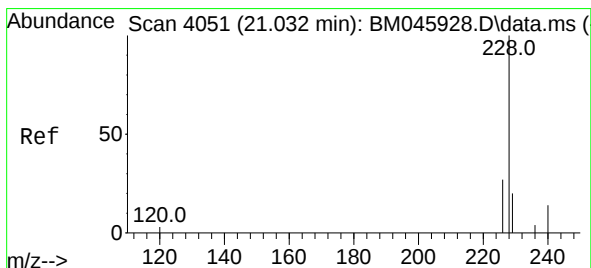
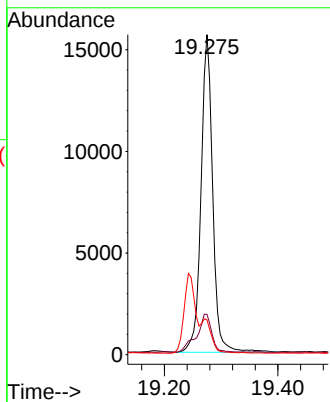
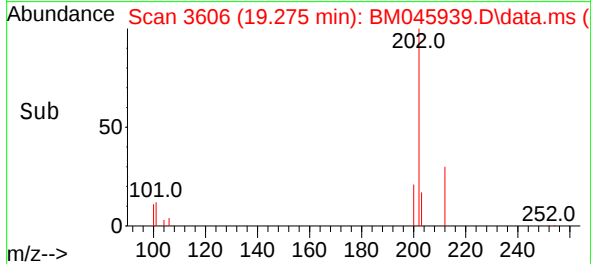
Instrument :  
BNA\_M  
ClientSampleId :  
A4C35DL



Tgt Ion:202 Resp: 2229  
Ion Ratio Lower Upper  
202 100  
101 12.6 10.6 16.0  
100 10.9 9.1 13.7

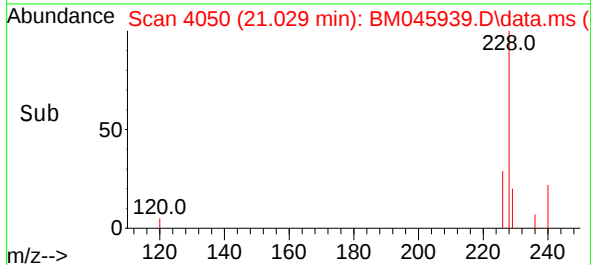
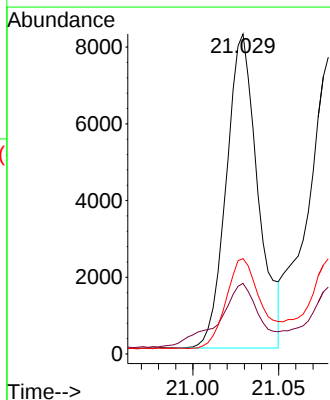
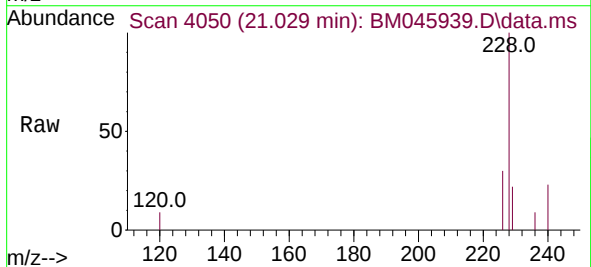
Manual Integrations  
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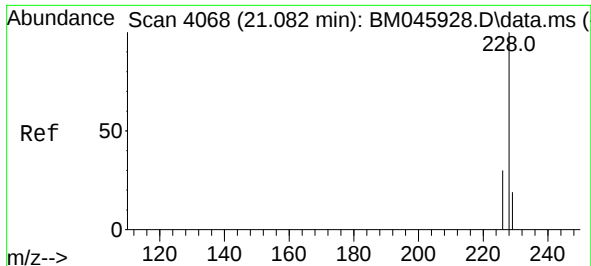
Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



#21  
Benzo(a)anthracene  
Concen: 0.186 ng/ul  
RT: 21.029 min Scan# 4050  
Delta R.T. -0.006 min  
Lab File: BM045939.D  
Acq: 09 Jun 2024 05:37

Tgt Ion:228 Resp: 10512  
Ion Ratio Lower Upper  
228 100  
229 22.1 15.7 23.5  
226 29.8 22.0 33.0





#22

Chrysene

Concen: 0.197 ng/ul m

RT: 21.079 min Scan# 4067

Delta R.T. -0.009 min

Lab File: BM045939.D

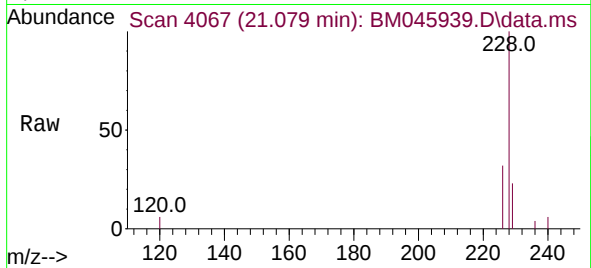
Acq: 09 Jun 2024 05:37

Instrument :

BNA\_M

ClientSampleId :

A4C35DL



Tgt Ion:228 Resp: 1211

Ion Ratio Lower Upper

228 100

226 32.1 24.5 36.7

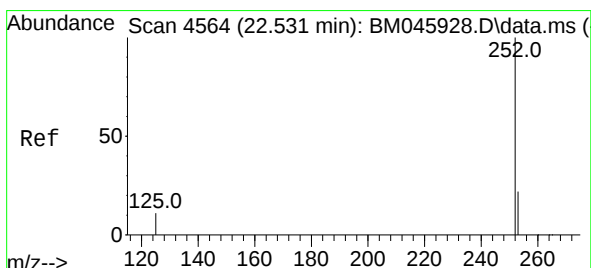
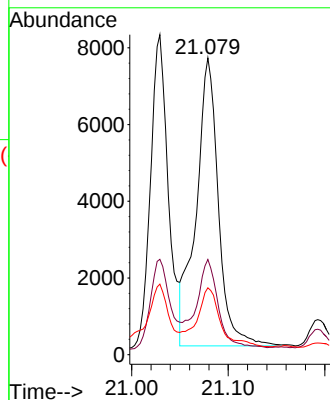
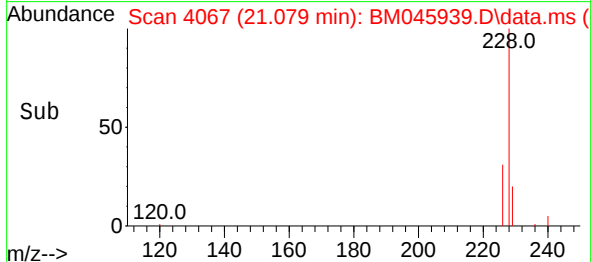
229 22.5 16.2 24.2

Manual Integrations

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Supervised By :mohammad ahmed 06/13/2024



#24

Benzo(b)fluoranthene

Concen: 0.265 ng/ul m

RT: 22.528 min Scan# 4563

Delta R.T. -0.009 min

Lab File: BM045939.D

Acq: 09 Jun 2024 05:37

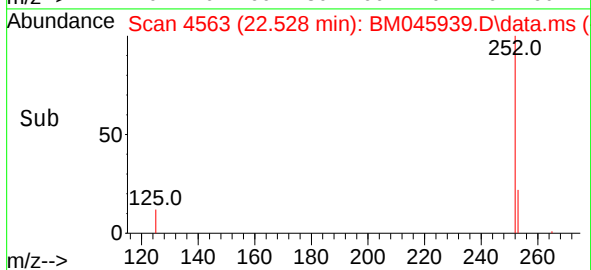
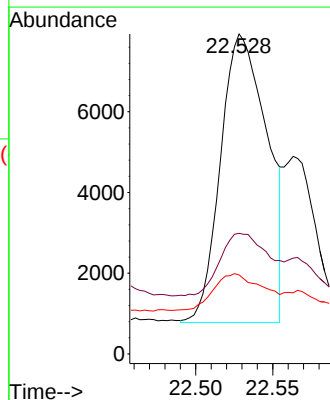
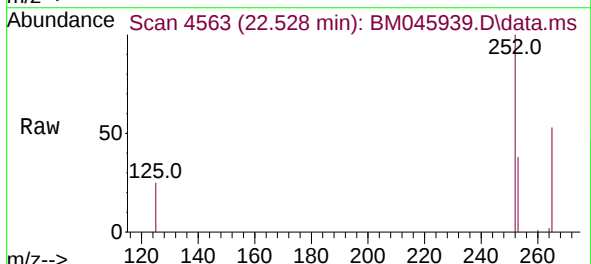
Tgt Ion:252 Resp: 15030

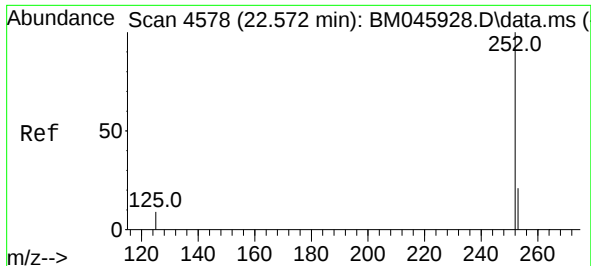
Ion Ratio Lower Upper

252 100

253 37.7 0.0 63.6

125 24.7 0.0 35.8





#25

Benzo(k)fluoranthene

Concen: 0.100 ng/ul m

RT: 22.563 min Scan# 4

Delta R.T. -0.018 min

Lab File: BM045939.D

Acq: 09 Jun 2024 05:37

Instrument :

BNA\_M

ClientSampleId :

A4C35DL

Tgt Ion:252 Resp: 626

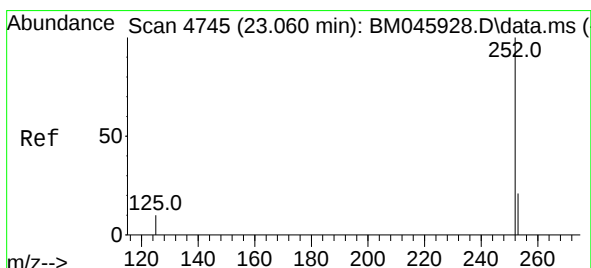
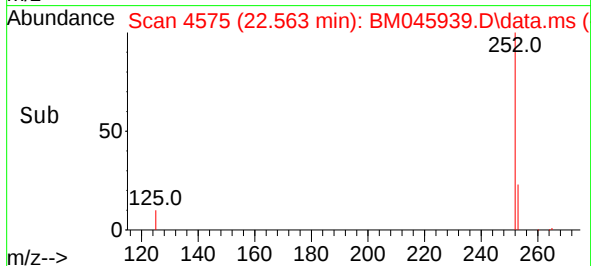
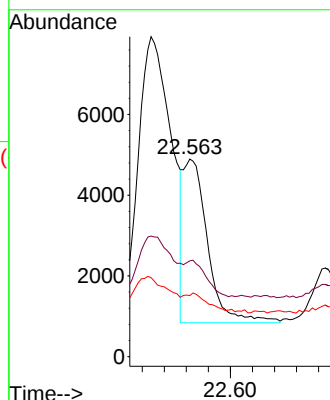
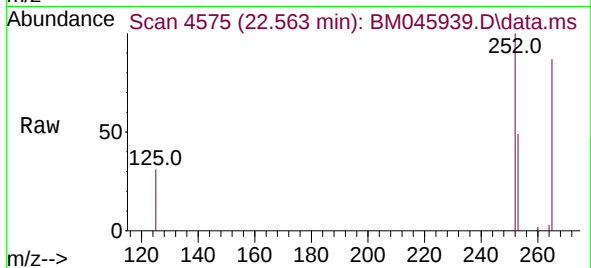
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 48.5  | 25.0  | 37.6  |
| 125 | 30.9  | 14.2  | 21.2  |

Manual Integrations

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Supervised By :mohammad ahmed 06/13/2024



#26

Benzo(a)pyrene

Concen: 0.187 ng/ul

RT: 23.054 min Scan# 4743

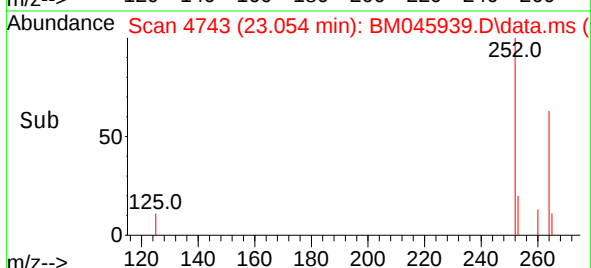
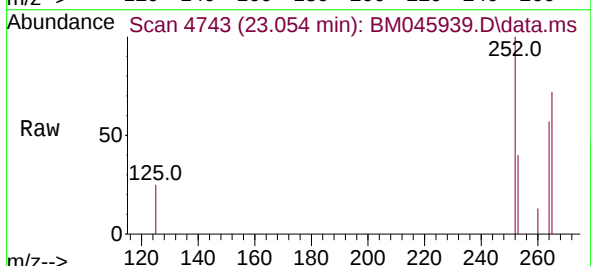
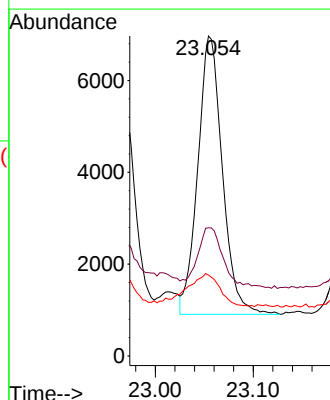
Delta R.T. -0.018 min

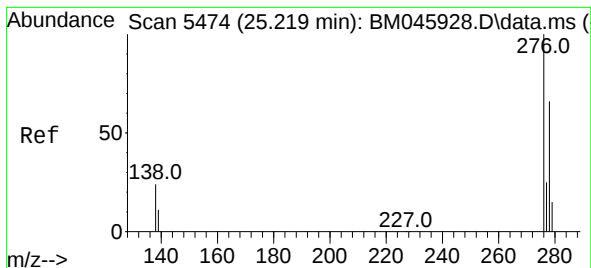
Lab File: BM045939.D

Acq: 09 Jun 2024 05:37

Tgt Ion:252 Resp: 10570

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 40.1  | 28.8  | 43.2  |
| 125 | 25.3  | 17.3  | 25.9  |





#27

Indeno(1,2,3-cd)pyrene

Concen: 0.112 ng/ul

RT: 25.212 min Scan# 5472

Delta R.T. -0.020 min

Lab File: BM045939.D

Acq: 09 Jun 2024 05:37

Instrument :

BNA\_M

ClientSampleId :

A4C35DL

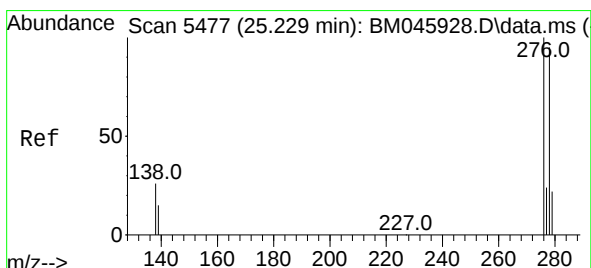
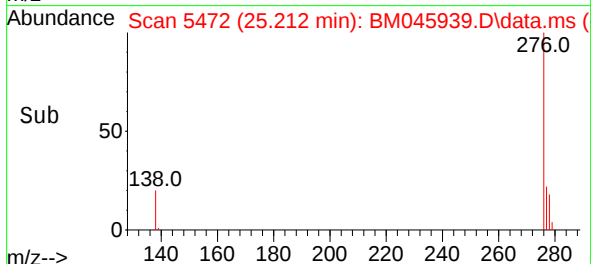
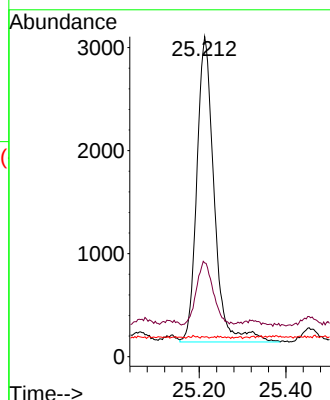
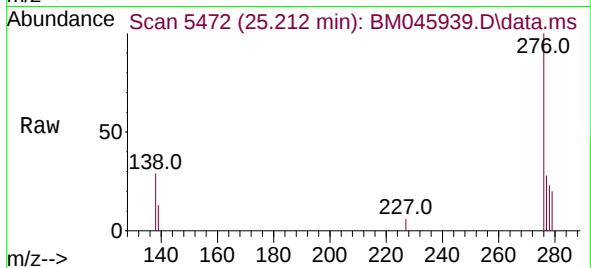
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 276   | Resp: | 820  |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 138       | 20.3  | 20.7  | 31.1 |
| 227       | 0.1   | 0.2   | 0.2  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/10/2024

Supervised By :mohammad ahmed 06/13/2024



#28

Dibenzo(a,h)anthracene

Concen: 0.032 ng/ul

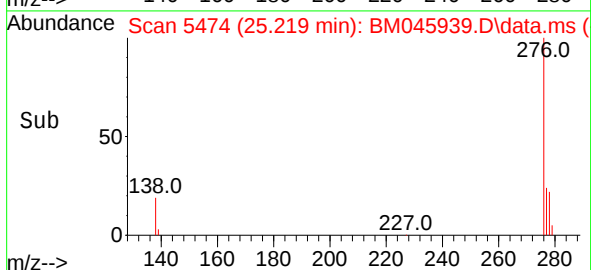
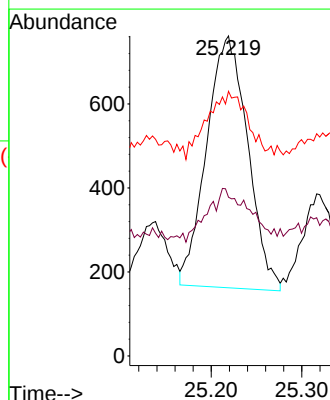
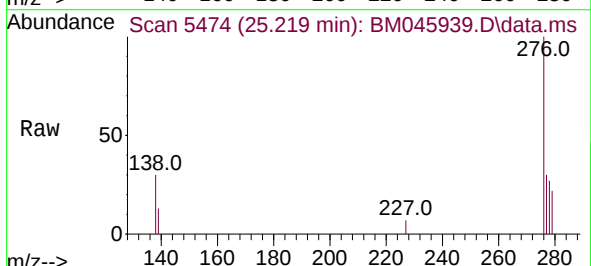
RT: 25.219 min Scan# 5474

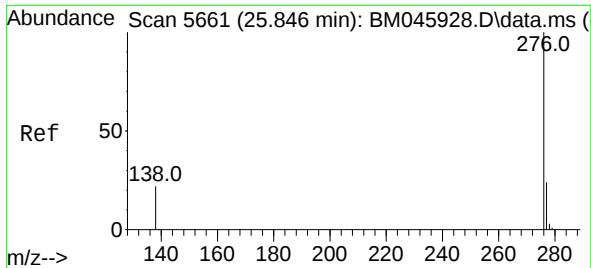
Delta R.T. -0.030 min

Lab File: BM045939.D

Acq: 09 Jun 2024 05:37

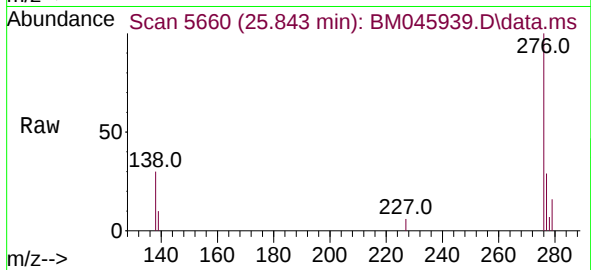
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 278   | Resp: | 1887 |
| Ion Ratio | Lower | Upper |      |
| 278       | 100   |       |      |
| 139       | 49.6  | 16.6  | 25.0 |
| 279       | 82.7  | 24.6  | 37.0 |





#29  
Benzo(g,h,i)perylene  
Concen: 0.134 ng/ul  
RT: 25.843 min Scan# 50  
Delta R.T. -0.020 min  
Lab File: BM045939.D  
Acq: 09 Jun 2024 05:37

Instrument :  
BNA\_M  
ClientSampleId :  
A4C35DL



Tgt Ion: 276 Resp: 845  
Ion Ratio Lower Upper  
276 100  
138 30.1 21.0 31.4  
277 28.7 20.5 30.7

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024

