

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
 Data File : BM045917.D  
 Acq On : 08 Jun 2024 15:40  
 Operator : MA/JU  
 Sample : P2640-17  
 Misc :  
 ALS Vial : 45 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4C41

Manual Integrations  
 APPROVED

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

Quant Time: Jun 10 01:28:46 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   | 7.464  | 152  | 6502     | 0.400  | ng/ul  | -0.02    |
| 4) Naphthalene-d8           | 10.233 | 136  | 22675    | 0.400  | ng/ul  | -0.02    |
| 9) Acenaphthene-d10         | 14.109 | 164  | 12449    | 0.400  | ng/ul  | -0.01    |
| 13) Phenanthrene-d10        | 16.850 | 188  | 27783m   | 0.400  | ng/ul  | -0.02    |
| 17) Chrysene-d12            | 21.044 | 240  | 15765m   | 0.400  | ng/ul  | 0.00     |
| 23) Perylene-d12            | 23.154 | 264  | 15463m   | 0.400  | ng/ul  | -0.01    |
|                             |        |      |          |        |        |          |
| System Monitoring Compounds |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8           | 3.054  | 96   | 30466    | 4.114  | ng/ul  | -0.03    |
| 6) 2-Methylnaphthalene-d10  | 11.833 | 152  | 8823     | 0.271  | ng/ul  | -0.02    |
| 18) Fluoranthene-d10        | 18.881 | 212  | 18691m   | 0.396  | ng/ul  | -0.01    |
|                             |        |      |          |        |        |          |
| Target Compounds            |        |      |          |        | Qvalue |          |
| 5) Naphthalene              | 10.277 | 128  | 14292    | 0.241  | ng/ul  | 98       |
| 7) 2-Methylnaphthalene      | 11.910 | 142  | 7769     | 0.206  | ng/ul  | 98       |
| 8) 1-Methylnaphthalene      | 12.130 | 142  | 6894     | 0.168  | ng/ul  | 99       |
| 10) Acenaphthylene          | 13.822 | 152  | 30178    | 0.533  | ng/ul  | 100      |
| 11) Acenaphthene            | 14.169 | 153  | 16239    | 0.390  | ng/ul  | 98       |
| 12) Fluorene                | 15.159 | 166  | 23671    | 0.509  | ng/ul  | 99       |
| 15) Phenanthrene            | 16.888 | 178  | 416879m  | 5.344  | ng/ul  |          |
| 16) Anthracene              | 16.981 | 178  | 77423m   | 1.164  | ng/ul  |          |
| 19) Fluoranthene            | 18.909 | 202  | 646705m  | 10.287 | ng/ul  |          |
| 20) Pyrene                  | 19.276 | 202  | 543065m  | 8.281  | ng/ul  |          |
| 21) Benzo(a)anthracene      | 21.026 | 228  | 244689m  | 4.228  | ng/ul  |          |
| 22) Chrysene                | 21.082 | 228  | 252694m  | 4.011  | ng/ul  |          |
| 24) Benzo(b)fluoranthene    | 22.531 | 252  | 279814m  | 5.456  | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 22.566 | 252  | 105707m  | 1.876  | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.063 | 252  | 201670m  | 3.954  | ng/ul  |          |
| 27) Indeno(1,2,3-cd)pyrene  | 25.215 | 276  | 146744m  | 2.225  | ng/ul  |          |
| 28) Dibenzo(a,h)anthracene  | 25.222 | 278  | 34841m   | 0.661  | ng/ul  |          |
| 29) Benzo(g,h,i)perylene    | 25.849 | 276  | 154478m  | 2.716  | ng/ul  |          |
| -----                       |        |      |          |        |        |          |

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

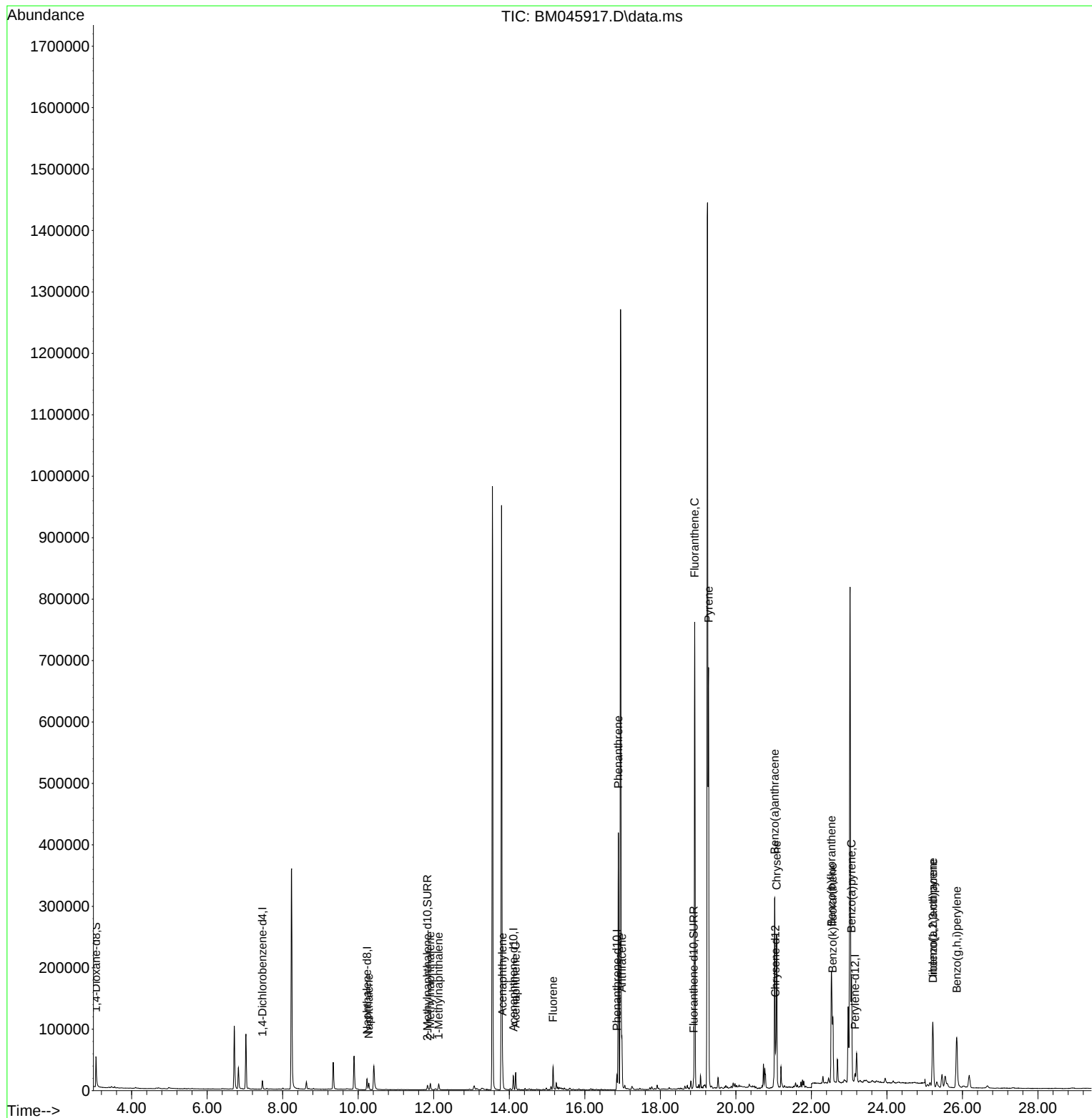
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060724\  
Data File : BM045917.D  
Acq On : 08 Jun 2024 15:40  
Operator : MA/JU  
Sample : P2640-17  
Misc :  
ALS Vial : 45 Sample Multiplier: 1

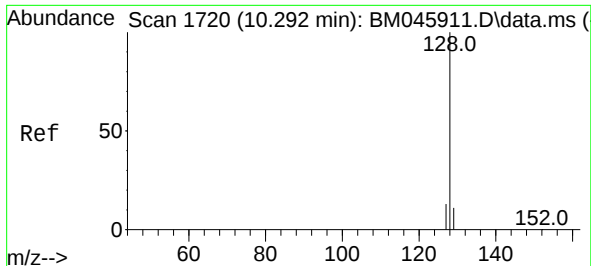
Instrument :  
BNA\_M  
ClientSampleId :  
A4C41

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

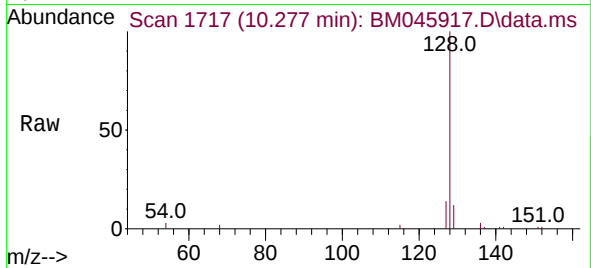
Quant Time: Jun 10 01:28:46 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 07 22:59:16 2024  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.241 ng/ul  
RT: 10.277 min Scan# 1717  
Delta R.T. -0.026 min  
Lab File: BM045917.D  
Acq: 08 Jun 2024 15:40

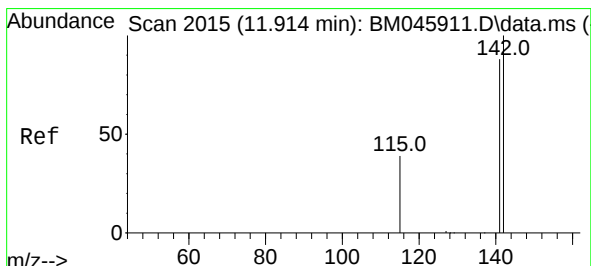
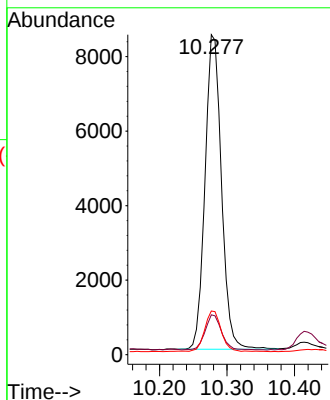
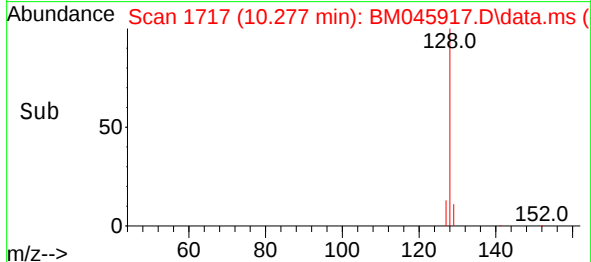
Instrument :  
BNA\_M  
ClientSampleId :  
A4C41



Tgt Ion:128 Resp: 14292  
Ion Ratio Lower Upper  
128 100  
129 12.4 9.4 14.0  
127 13.7 10.6 15.8

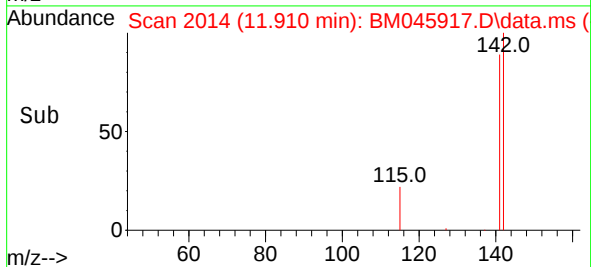
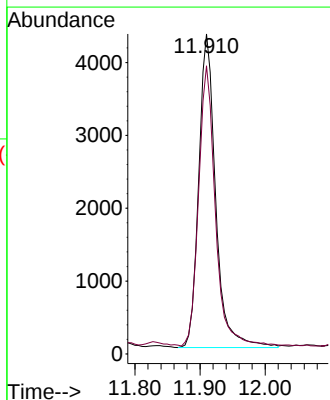
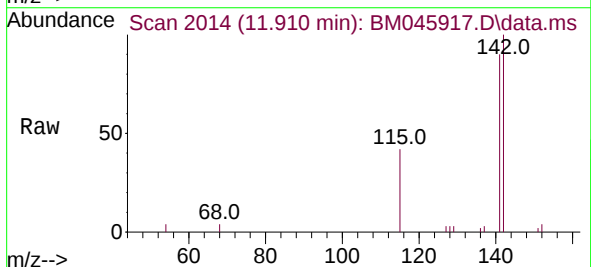
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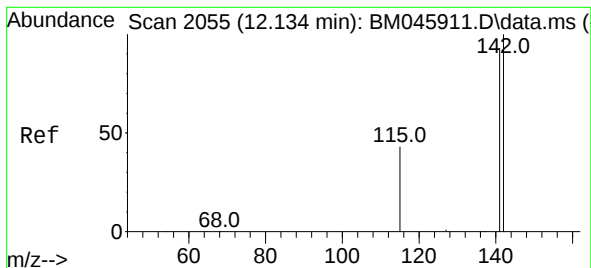
Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



#7  
2-Methylnaphthalene  
Concen: 0.206 ng/ul  
RT: 11.910 min Scan# 2014  
Delta R.T. -0.010 min  
Lab File: BM045917.D  
Acq: 08 Jun 2024 15:40

Tgt Ion:142 Resp: 7769  
Ion Ratio Lower Upper  
142 100  
141 88.3 72.2 108.4





#8

1-Methylnaphthalene

Concen: 0.168 ng/ul

RT: 12.130 min Scan# 2054

Delta R.T. -0.015 min

Lab File: BM045917.D

Acq: 08 Jun 2024 15:40

Instrument :

BNA\_M

ClientSampleId :

A4C41

Tgt Ion:142 Resp: 6894

Ion Ratio Lower Upper

142 100

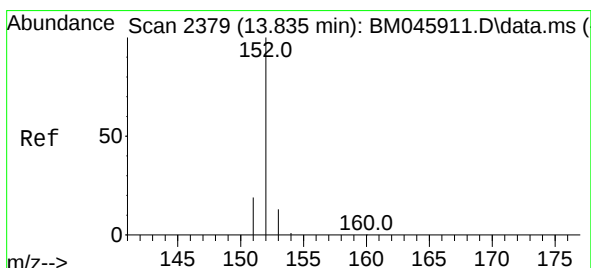
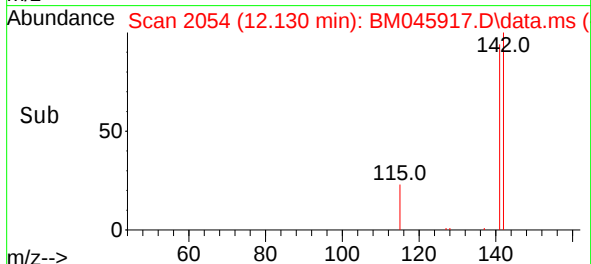
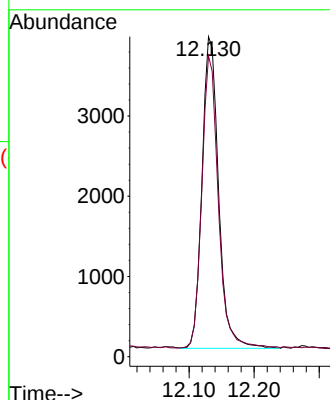
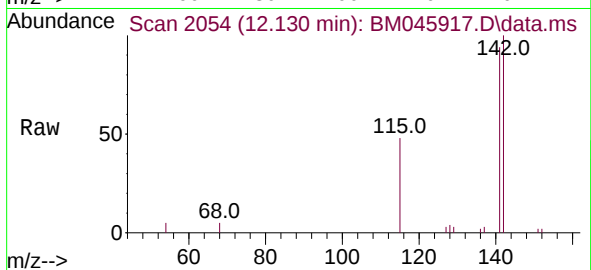
141 93.0 73.5 110.3

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Reviewed By :Yogesh Patel 06/10/2024

Supervised By :mohammad ahmed 06/13/2024



#10

Acenaphthylene

Concen: 0.533 ng/ul

RT: 13.822 min Scan# 2376

Delta R.T. -0.017 min

Lab File: BM045917.D

Acq: 08 Jun 2024 15:40

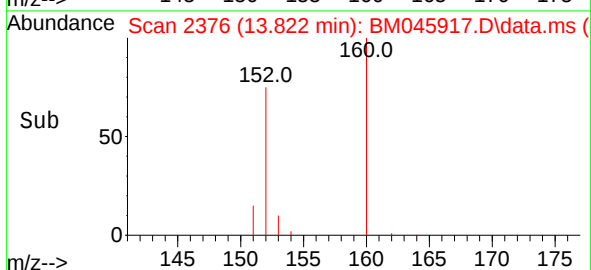
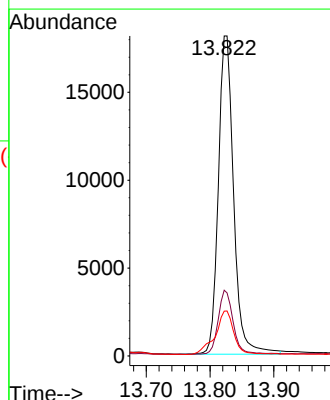
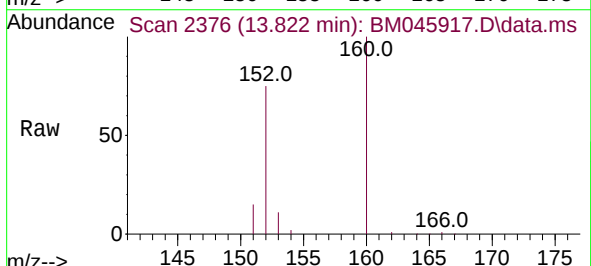
Tgt Ion:152 Resp: 30178

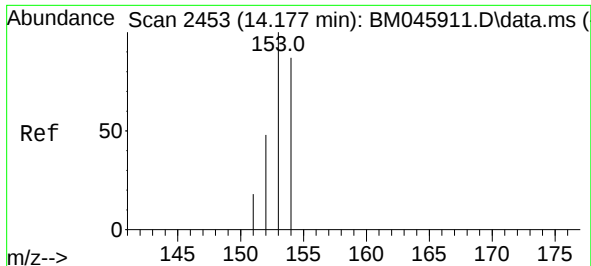
Ion Ratio Lower Upper

152 100

151 20.5 16.4 24.6

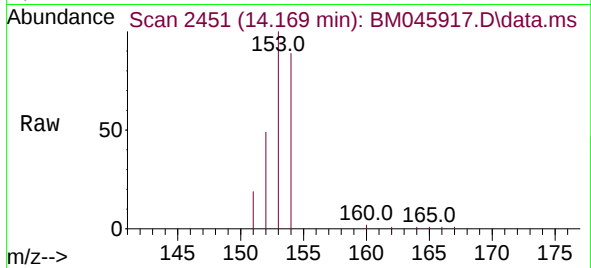
153 14.0 11.1 16.7





#11  
Acenaphthene  
Concen: 0.390 ng/ul  
RT: 14.169 min Scan# 2451  
Delta R.T. -0.013 min  
Lab File: BM045917.D  
Acq: 08 Jun 2024 15:40

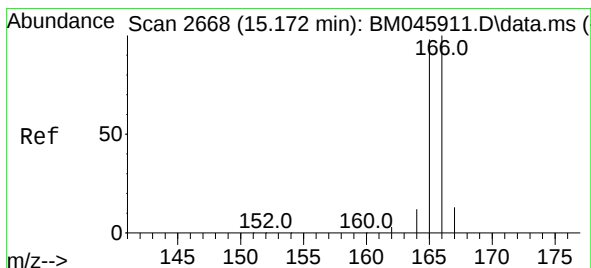
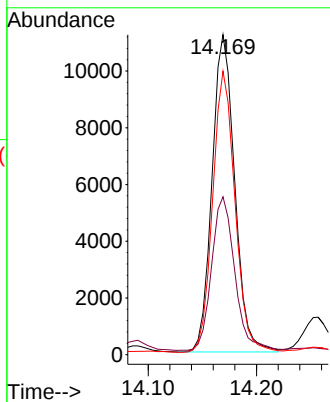
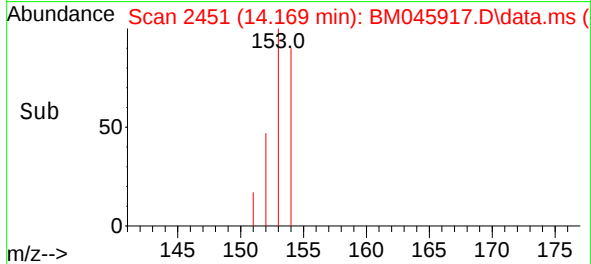
Instrument :  
BNA\_M  
ClientSampleId :  
A4C41



Tgt Ion:153 Resp: 16239  
Ion Ratio Lower Upper  
153 100  
152 49.3 39.0 58.4  
154 88.6 69.4 104.2

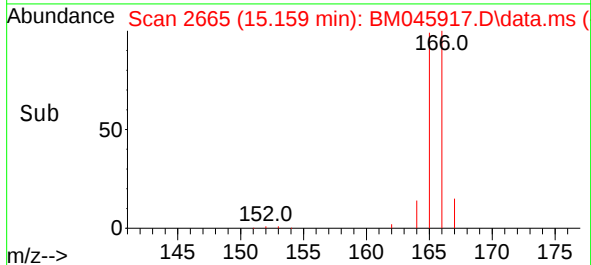
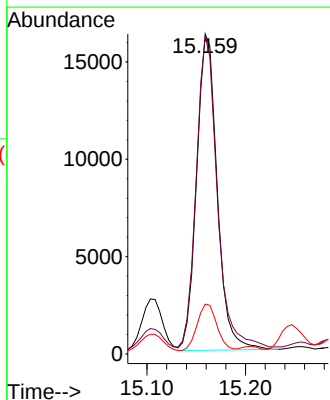
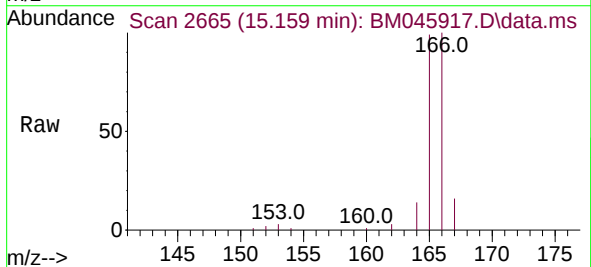
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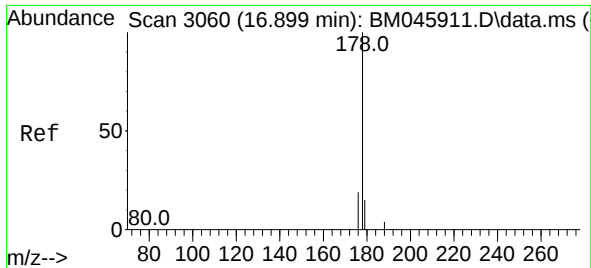
Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



#12  
Fluorene  
Concen: 0.509 ng/ul  
RT: 15.159 min Scan# 2665  
Delta R.T. -0.017 min  
Lab File: BM045917.D  
Acq: 08 Jun 2024 15:40

Tgt Ion:166 Resp: 23671  
Ion Ratio Lower Upper  
166 100  
165 99.4 79.7 119.5  
167 15.5 11.3 16.9





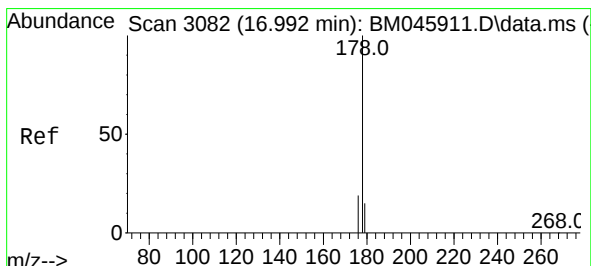
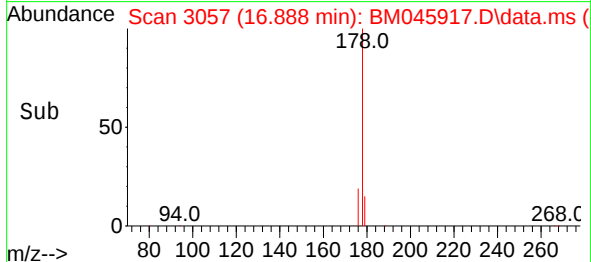
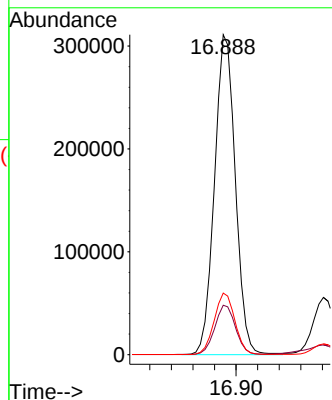
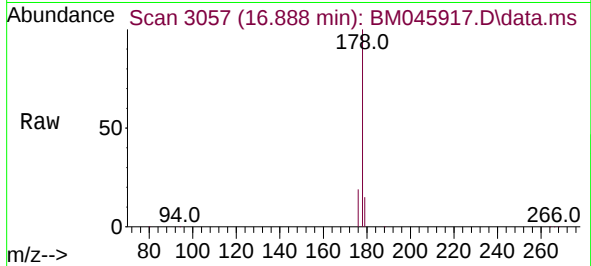
#15  
Phenanthrene  
Concen: 5.344 ng/ul m  
RT: 16.888 min Scan# 3057  
Delta R.T. -0.016 min  
Lab File: BM045917.D  
Acq: 08 Jun 2024 15:40

Instrument :  
BNA\_M  
ClientSampleId :  
A4C41

Tgt Ion:178 Resp: 416879  
Ion Ratio Lower Upper  
178 100  
179 15.4 12.7 19.1  
176 19.3 15.6 23.4

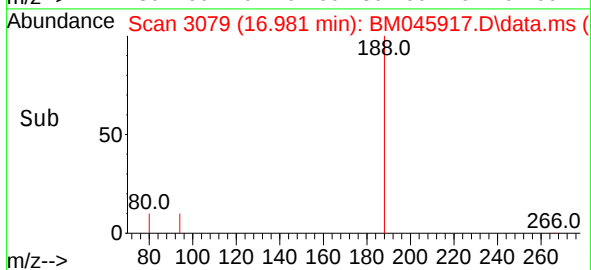
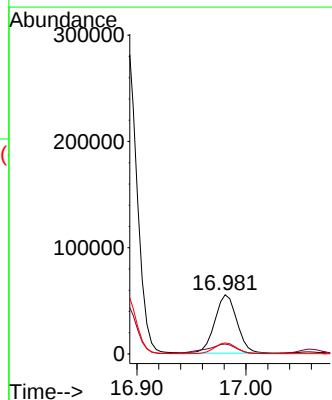
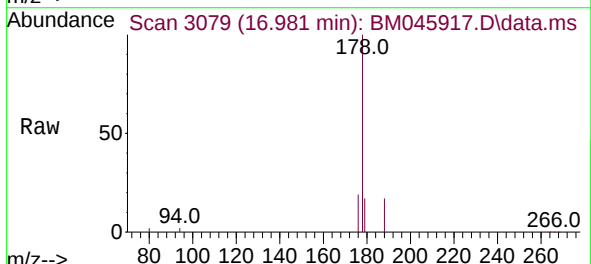
Manual Integrations  
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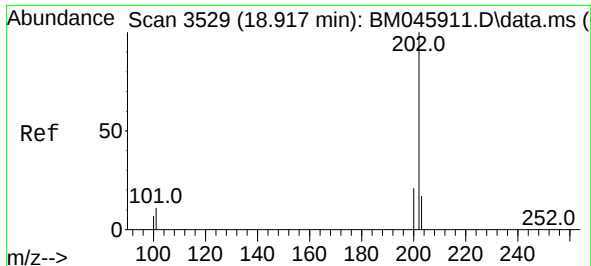
Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



#16  
Anthracene  
Concen: 1.164 ng/ul m  
RT: 16.981 min Scan# 3079  
Delta R.T. -0.016 min  
Lab File: BM045917.D  
Acq: 08 Jun 2024 15:40

Tgt Ion:178 Resp: 77423  
Ion Ratio Lower Upper  
178 100  
179 16.9 13.1 19.7  
176 18.8 15.5 23.3





#19

Fluoranthene

Concen: 10.287 ng/ul m

RT: 18.909 min Scan# 3529

Delta R.T. -0.013 min

Lab File: BM045917.D

Acq: 08 Jun 2024 15:40

Instrument :

BNA\_M

ClientSampleId :

A4C41

Tgt Ion:202 Resp: 646709

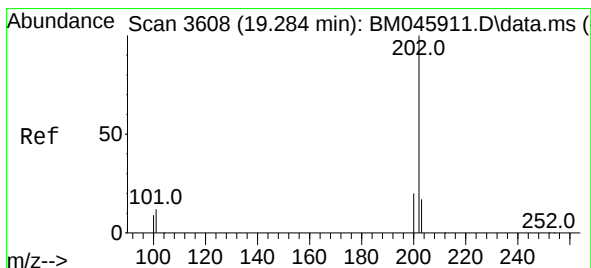
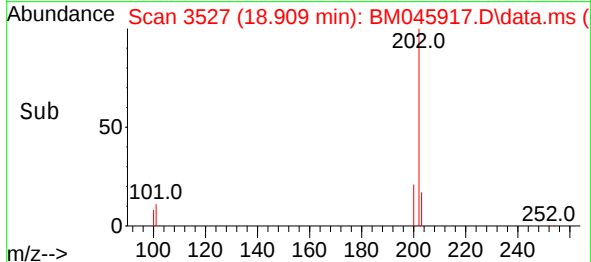
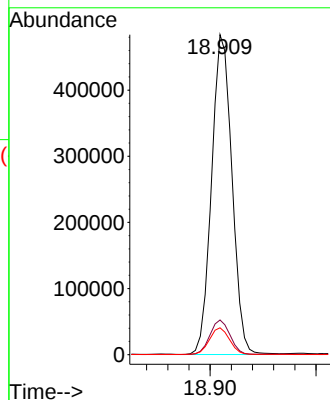
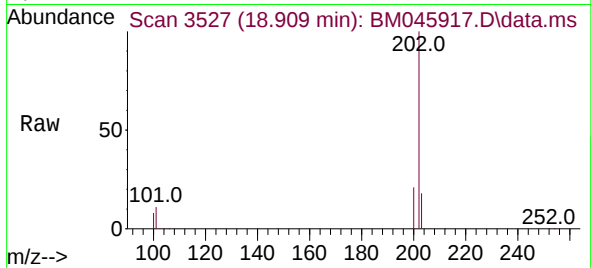
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 101 | 10.8  | 9.0   | 13.6  |
| 100 | 8.4   | 7.0   | 10.6  |

Manual Integrations

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Reviewed By :Yogesh Patel 06/10/2024

Supervised By :mohammad ahmed 06/13/2024



#20

Pyrene

Concen: 8.281 ng/ul m

RT: 19.276 min Scan# 3606

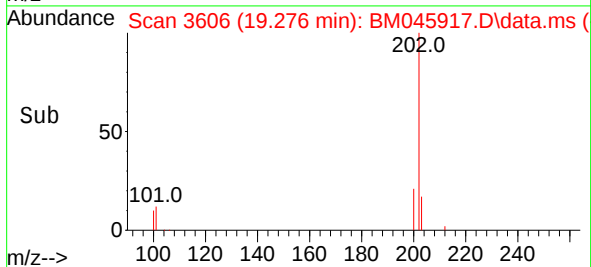
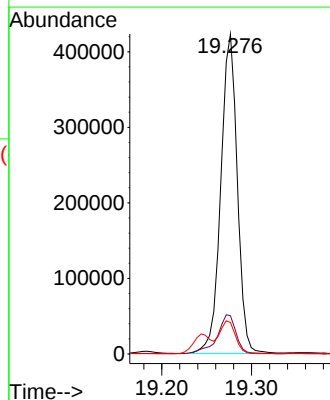
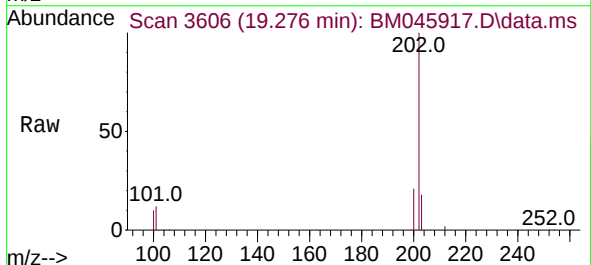
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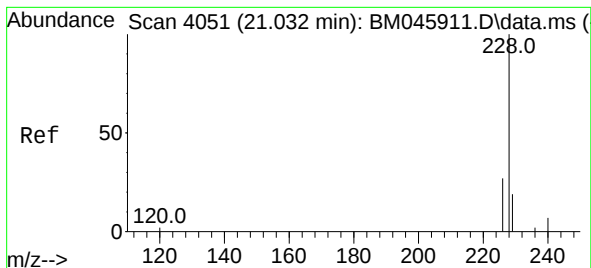
Lab File: BM045917.D

Acq: 08 Jun 2024 15:40

Tgt Ion:202 Resp: 543065

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 101 | 12.0  | 10.6  | 16.0  |
| 100 | 9.9   | 9.1   | 13.7  |





#21

Benzo(a)anthracene

Concen: 4.228 ng/ul m

RT: 21.026 min Scan# 4049

Delta R.T. -0.009 min

Lab File: BM045917.D

Acq: 08 Jun 2024 15:40

Instrument :

BNM\_M

ClientSampleId :

A4C41

Tgt Ion:228 Resp: 244689

Ion Ratio Lower Upper

228 100

229 20.4 15.7 23.5

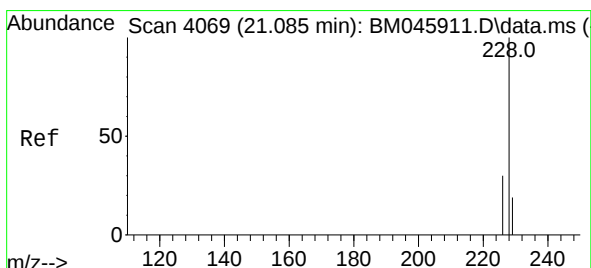
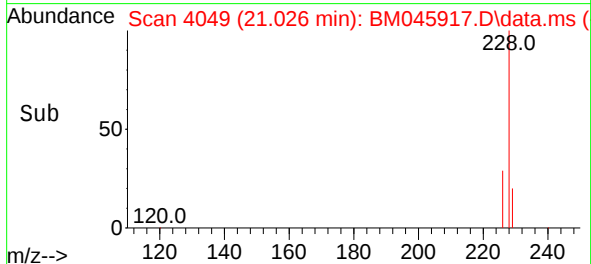
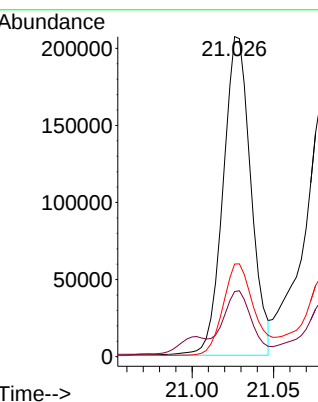
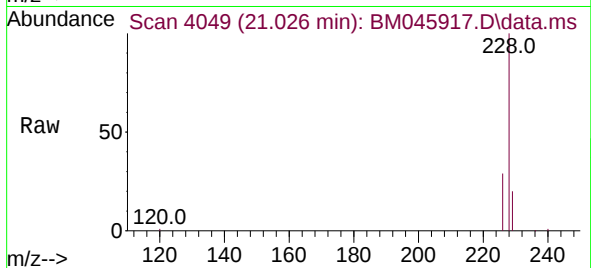
226 28.9 22.0 33.0

Manual Integrations

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Reviewed By :Yogesh Patel 06/10/2024

Supervised By :mohammad ahmed 06/13/2024



#22

Chrysene

Concen: 4.011 ng/ul m

RT: 21.082 min Scan# 4068

Delta R.T. -0.006 min

Lab File: BM045917.D

Acq: 08 Jun 2024 15:40

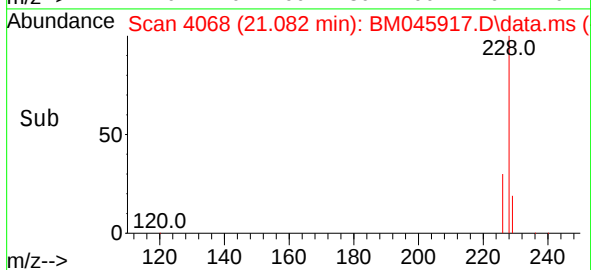
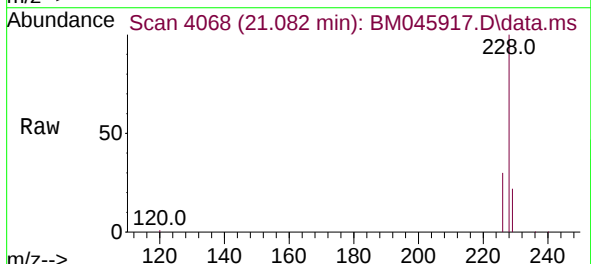
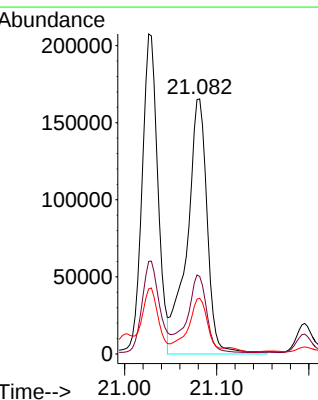
Tgt Ion:228 Resp: 252694

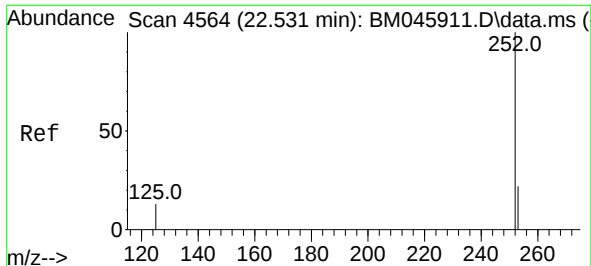
Ion Ratio Lower Upper

228 100

226 30.4 24.5 36.7

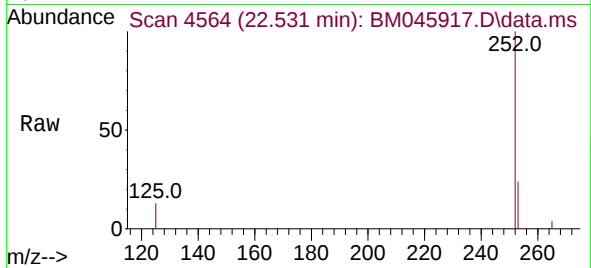
229 21.8 16.2 24.2





#24  
Benzo(b)fluoranthene  
Concen: 5.456 ng/ul m  
RT: 22.531 min Scan# 4564  
Delta R.T. -0.006 min  
Lab File: BM045917.D  
Acq: 08 Jun 2024 15:40

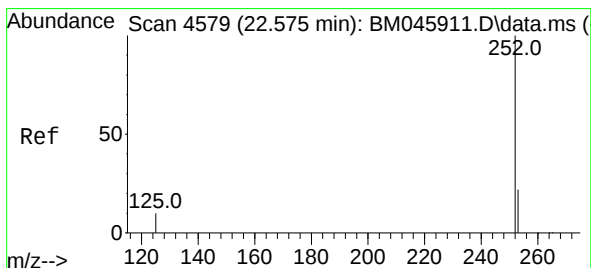
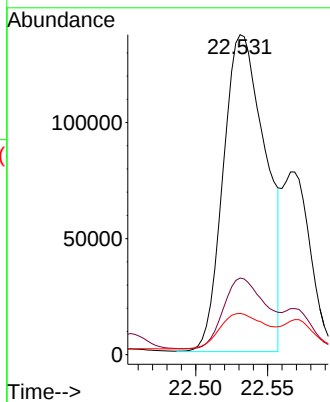
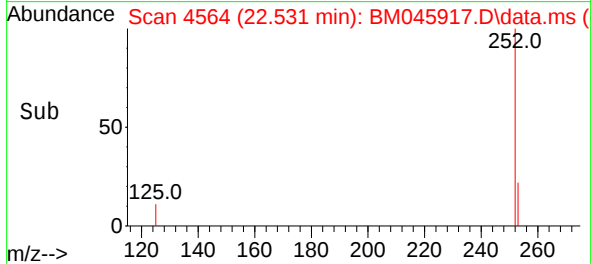
Instrument :  
BNA\_M  
ClientSampleId :  
A4C41



Tgt Ion:252 Resp: 279814  
Ion Ratio Lower Upper  
252 100  
253 23.9 0.0 63.6  
125 12.9 0.0 35.8

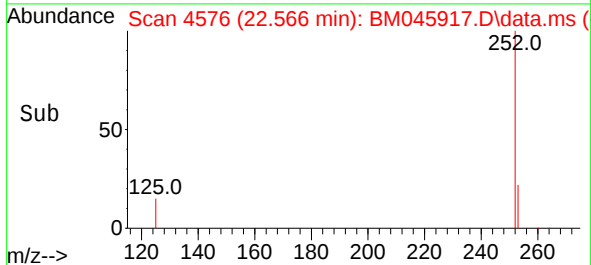
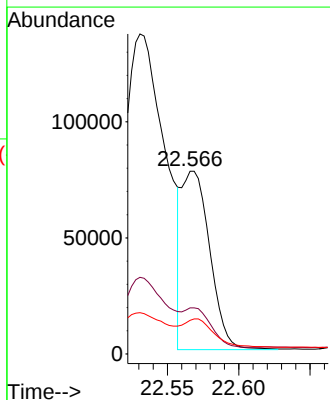
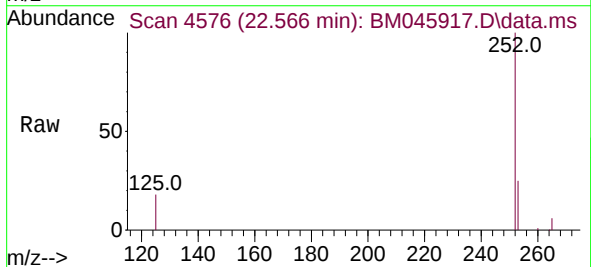
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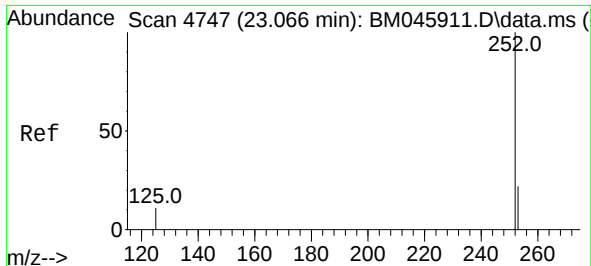
Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



#25  
Benzo(k)fluoranthene  
Concen: 1.876 ng/ul m  
RT: 22.566 min Scan# 4576  
Delta R.T. -0.015 min  
Lab File: BM045917.D  
Acq: 08 Jun 2024 15:40

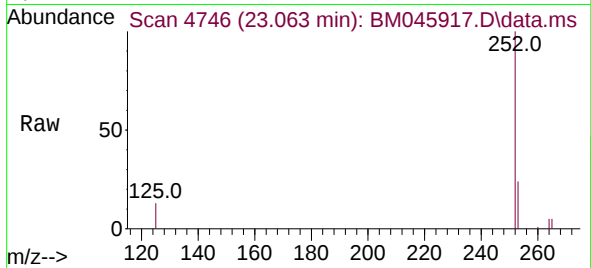
Tgt Ion:252 Resp: 105707  
Ion Ratio Lower Upper  
252 100  
253 25.2 25.0 37.6  
125 18.4 14.2 21.2





#26  
Benzo(a)pyrene  
Concen: 3.954 ng/ul m  
RT: 23.063 min Scan# 4746  
Delta R.T. -0.009 min  
Lab File: BM045917.D  
Acq: 08 Jun 2024 15:40

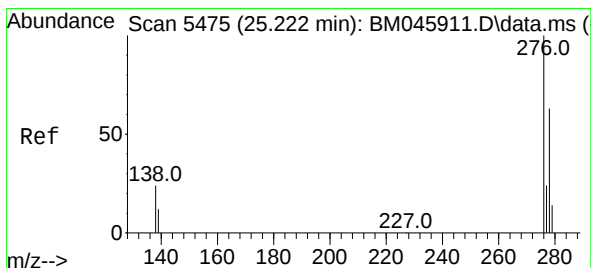
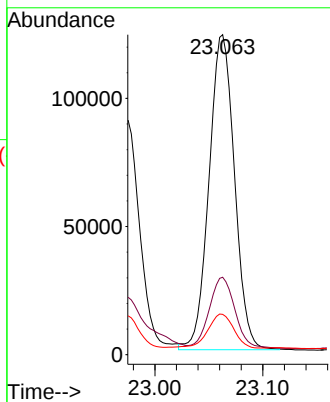
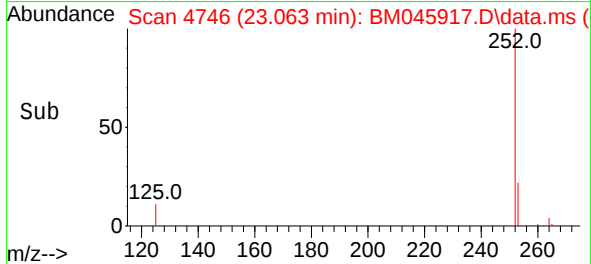
Instrument :  
BNA\_M  
ClientSampleId :  
A4C41



Tgt Ion:252 Resp: 201670  
Ion Ratio Lower Upper  
252 100  
253 24.2 28.8 43.2#  
125 12.6 17.3 25.9#

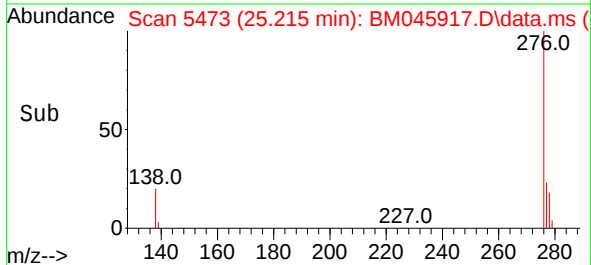
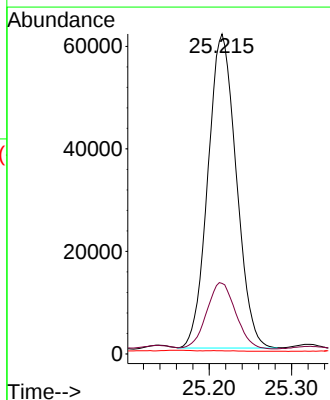
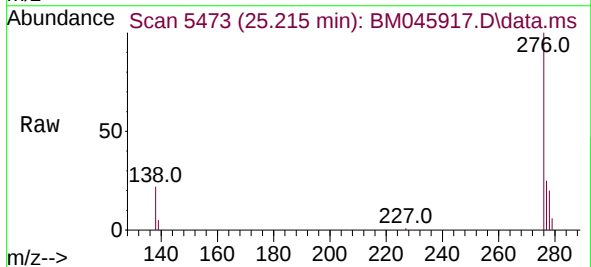
Manual Integrations  
APPROVED

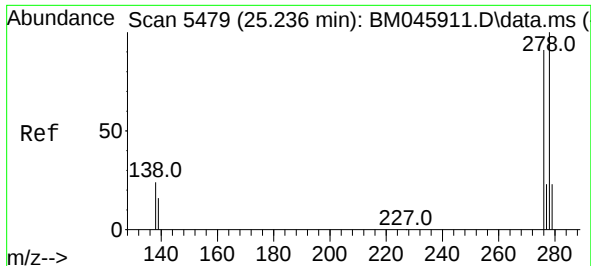
Reviewed By :Yogesh Patel 06/10/2024  
Supervised By :mohammad ahmed 06/13/2024



#27  
Indeno(1,2,3-cd)pyrene  
Concen: 2.225 ng/ul m  
RT: 25.215 min Scan# 5473  
Delta R.T. -0.017 min  
Lab File: BM045917.D  
Acq: 08 Jun 2024 15:40

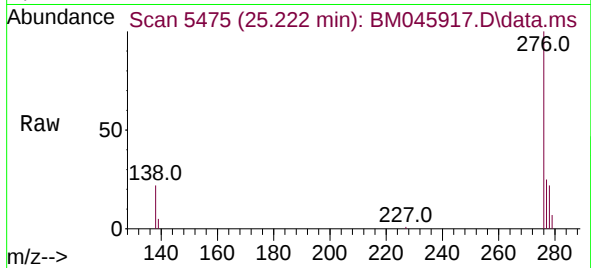
Tgt Ion:276 Resp: 146744  
Ion Ratio Lower Upper  
276 100  
138 2.5 20.7 31.1#  
227 0.1 0.2 0.2#





#28  
Dibenzo(a,h)anthracene  
Concen: 0.661 ng/ul m  
RT: 25.222 min Scan# 5479  
Delta R.T. -0.027 min  
Lab File: BM045917.D  
Acq: 08 Jun 2024 15:40

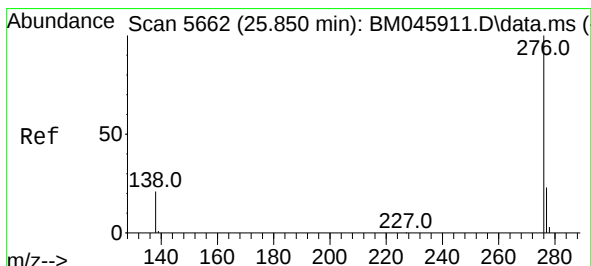
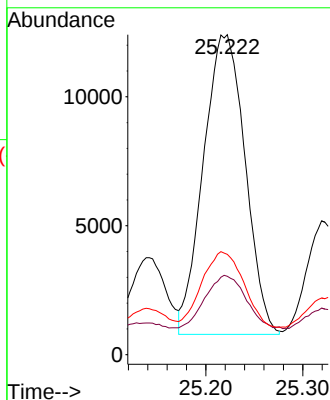
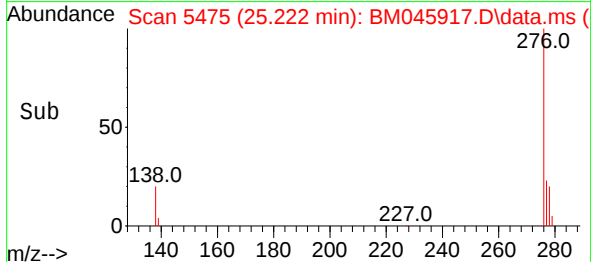
Instrument :  
BNA\_M  
ClientSampleId :  
A4C41



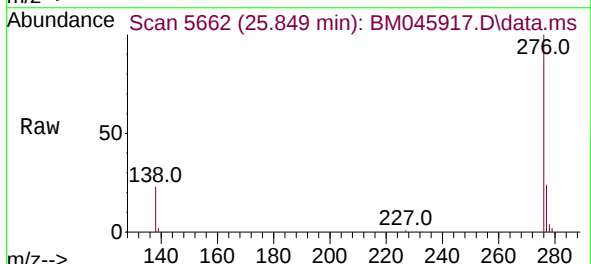
Tgt Ion:278 Resp: 3484  
Ion Ratio Lower Upper  
278 100  
139 24.5 16.6 25.0  
279 31.3 24.6 37.0

Manual Integrations  
APPROVED

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



#29  
Benzo(g,h,i)perylene  
Concen: 2.716 ng/ul m  
RT: 25.849 min Scan# 5662  
Delta R.T. -0.013 min  
Lab File: BM045917.D  
Acq: 08 Jun 2024 15:40



Tgt Ion:276 Resp: 154478  
Ion Ratio Lower Upper  
276 100  
138 22.7 21.0 31.4  
277 24.3 20.5 30.7

