

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM071524\  
 Data File : BM046607.D  
 Acq On : 15 Jul 2024 21:56  
 Operator : MA/JU  
 Sample : P3087-13  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4BP1

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 07/16/2024  
 Supervised By :mohammad ahmed 07/18/2024

Quant Time: Jul 16 00:25:30 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM071024.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jul 15 08:57:27 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|--------|------|----------|-------|---------|----------|
| -----                       |        |      |          |       |         |          |
| Internal Standards          |        |      |          |       |         |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.506  | 152  | 2498     | 0.400 | ng/ul   | 0.00     |
| 4) Naphthalene-d8           | 10.265 | 136  | 6878     | 0.400 | ng/ul # | 0.00     |
| 9) Acenaphthene-d10         | 14.146 | 164  | 5041     | 0.400 | ng/ul   | 0.00     |
| 13) Phenanthrene-d10        | 16.901 | 188  | 11784    | 0.400 | ng/ul   | 0.00     |
| 17) Chrysene-d12            | 21.105 | 240  | 9924     | 0.400 | ng/ul # | 0.00     |
| 23) Perylene-d12            | 23.247 | 264  | 10046m   | 0.400 | ng/ul   | 0.00     |
|                             |        |      |          |       |         |          |
| System Monitoring Compounds |        |      |          |       |         |          |
| 3) 1,4-Dioxane-d8           | 3.117  | 96   | 5123     | 2.496 | ng/ul   | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 11.866 | 152  | 2475     | 0.223 | ng/ul   | 0.00     |
| 18) Fluoranthene-d10        | 18.937 | 212  | 7353     | 0.244 | ng/ul   | 0.00     |
|                             |        |      |          |       |         |          |
| Target Compounds            |        |      |          |       |         |          |
|                             |        |      |          |       | Qvalue  |          |
| 5) Naphthalene              | 10.310 | 128  | 625      | 0.036 | ng/ul#  | 72       |
| 10) Acenaphthylene          | 13.864 | 152  | 1020     | 0.044 | ng/ul#  | 83       |
| 11) Acenaphthene            | 14.211 | 153  | 406      | 0.026 | ng/ul   | 99       |
| 12) Fluorene                | 15.205 | 166  | 516      | 0.027 | ng/ul#  | 90       |
| 15) Phenanthrene            | 16.943 | 178  | 17121    | 0.509 | ng/ul   | 100      |
| 16) Anthracene              | 17.031 | 178  | 2618     | 0.080 | ng/ul   | 93       |
| 19) Fluoranthene            | 18.969 | 202  | 37893    | 0.930 | ng/ul   | 99       |
| 20) Pyrene                  | 19.332 | 202  | 32718    | 0.741 | ng/ul   | 99       |
| 21) Benzo(a)anthracene      | 21.090 | 228  | 14923    | 0.340 | ng/ul   | 96       |
| 22) Chrysene                | 21.140 | 228  | 16703    | 0.393 | ng/ul   | 97       |
| 24) Benzo(b)fluoranthene    | 22.612 | 252  | 22720m   | 0.566 | ng/ul   |          |
| 25) Benzo(k)fluoranthene    | 22.648 | 252  | 6914m    | 0.176 | ng/ul   |          |
| 26) Benzo(a)pyrene          | 23.153 | 252  | 12790    | 0.387 | ng/ul   | 98       |
| 27) Indeno(1,2,3-cd)pyrene  | 25.363 | 276  | 10341    | 0.206 | ng/ul#  | 100      |
| 28) Dibenzo(a,h)anthracene  | 25.376 | 278  | 2549     | 0.064 | ng/ul#  | 41       |
| 29) Benzo(g,h,i)perylene    | 26.007 | 276  | 10116    | 0.252 | ng/ul#  | 97       |
| -----                       |        |      |          |       |         |          |

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

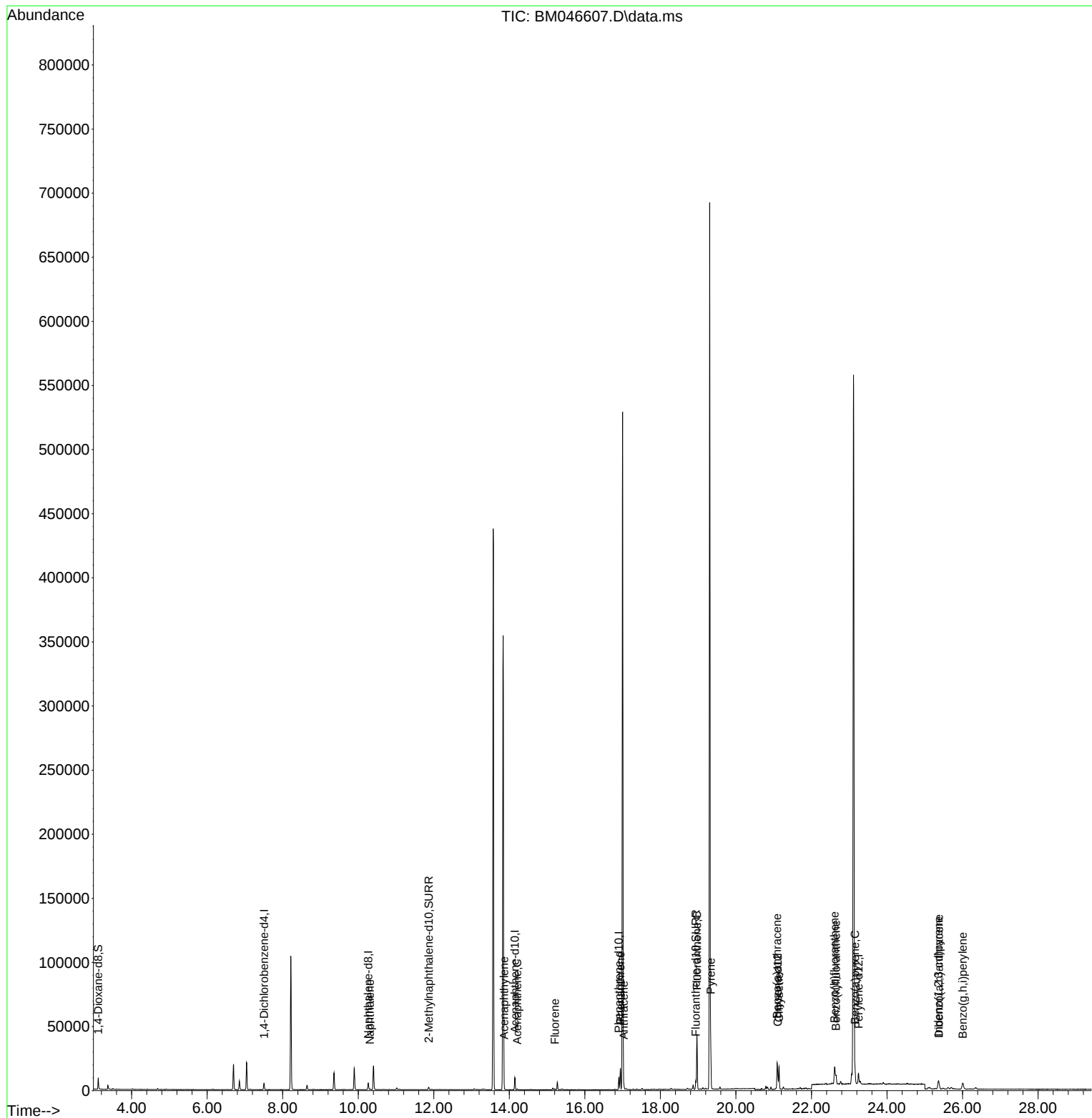
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Data File : BM046607.D  
Acq On : 15 Jul 2024 21:56  
Operator : MA/JU  
Sample : P3087-13  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

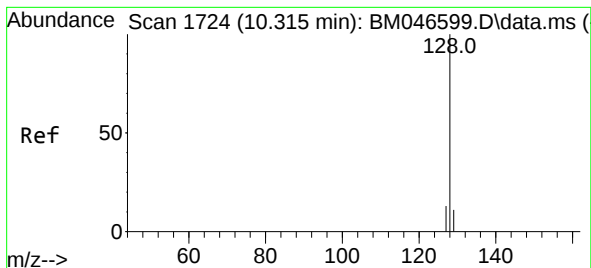
Instrument :  
BNA\_M  
ClientSampleId :  
A4BP1

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 07/16/2024  
Supervised By :mohammad ahmed 07/18/2024

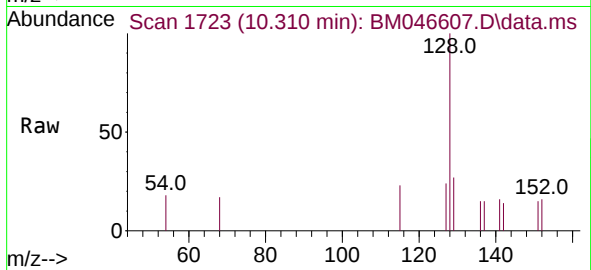
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Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM071024.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jul 15 08:57:27 2024  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.036 ng/ul  
RT: 10.310 min Scan# 1723  
Delta R.T. -0.006 min  
Lab File: BM046607.D  
Acq: 15 Jul 2024 21:56

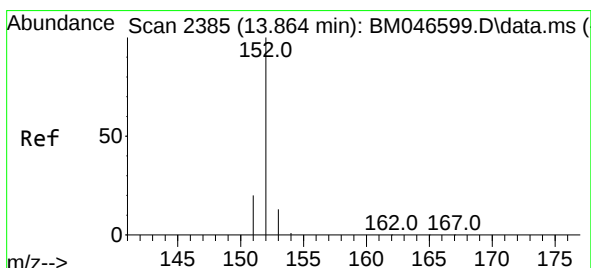
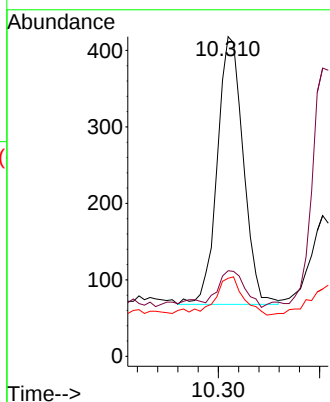
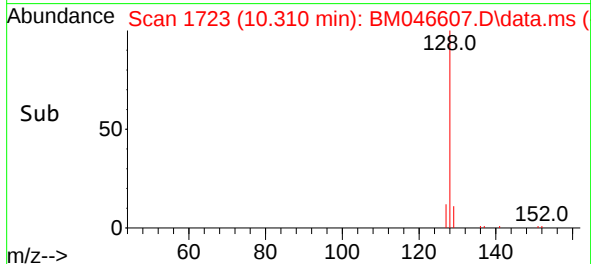
Instrument :  
BNA\_M  
ClientSampleId :  
A4BP1



Tgt Ion:128 Resp: 625  
Ion Ratio Lower Upper  
128 100  
129 26.8 10.3 15.5#  
127 24.4 12.2 18.4#

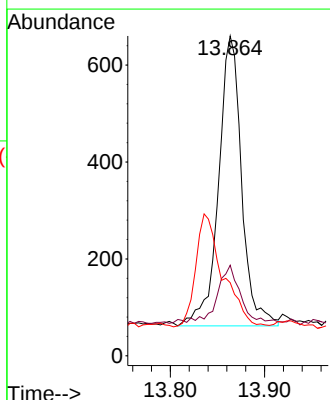
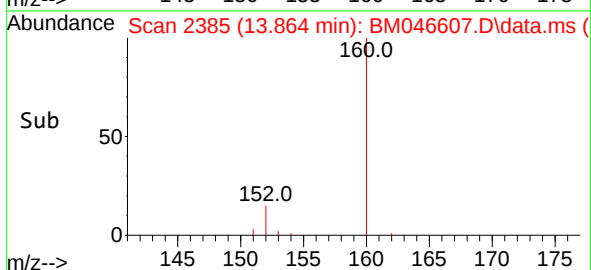
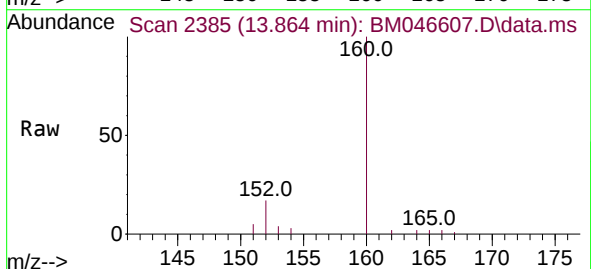
Manual Integrations  
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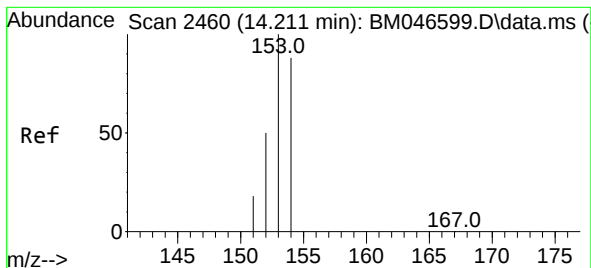
Reviewed By :Yogesh Patel 07/16/2024  
Supervised By :mohammad ahmed 07/18/2024



#10  
Acenaphthylene  
Concen: 0.044 ng/ul  
RT: 13.864 min Scan# 2385  
Delta R.T. -0.001 min  
Lab File: BM046607.D  
Acq: 15 Jul 2024 21:56

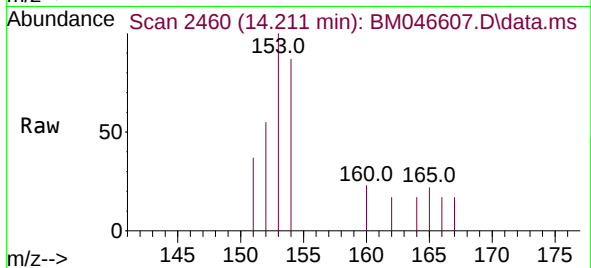
Tgt Ion:152 Resp: 1020  
Ion Ratio Lower Upper  
152 100  
151 28.3 16.4 24.6#  
153 22.9 12.4 18.6#





#11  
Acenaphthene  
Concen: 0.026 ng/ul  
RT: 14.211 min Scan# 2460  
Delta R.T. -0.000 min  
Lab File: BM046607.D  
Acq: 15 Jul 2024 21:56

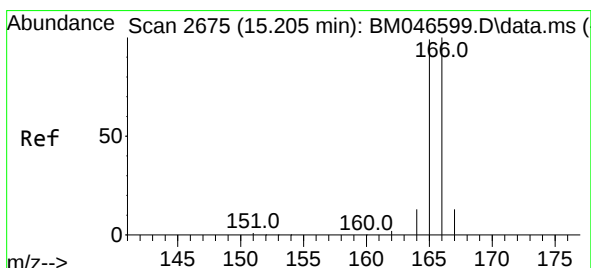
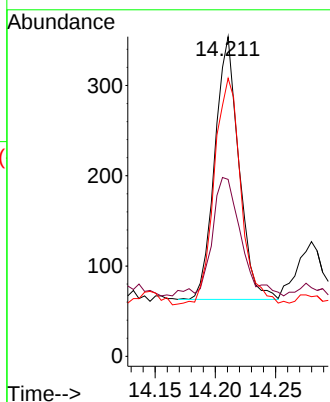
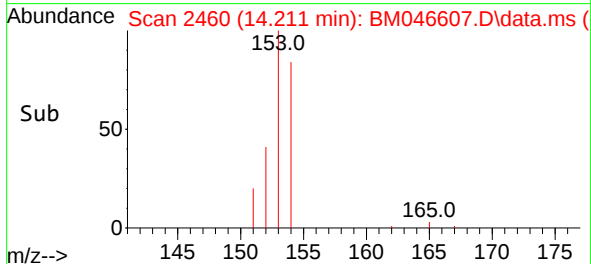
Instrument :  
BNA\_M  
ClientSampleId :  
A4BP1



Tgt Ion:153 Resp: 400  
Ion Ratio Lower Upper  
153 100  
152 55.4 43.0 64.6  
154 87.0 69.9 104.9

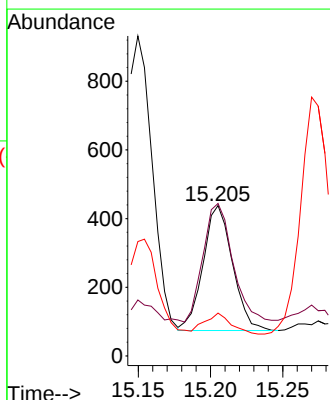
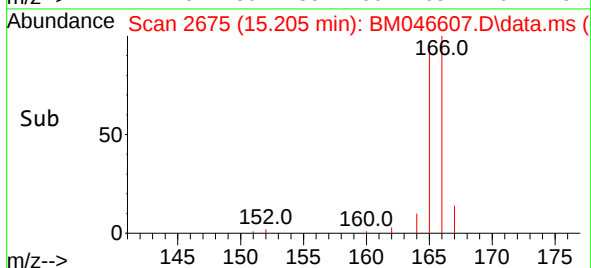
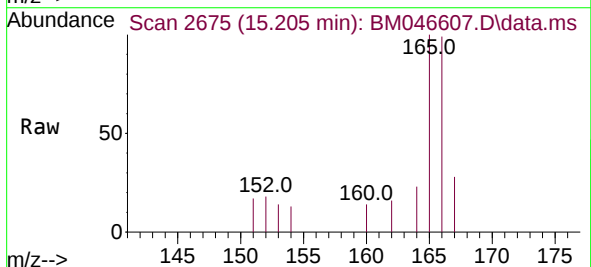
Manual Integrations  
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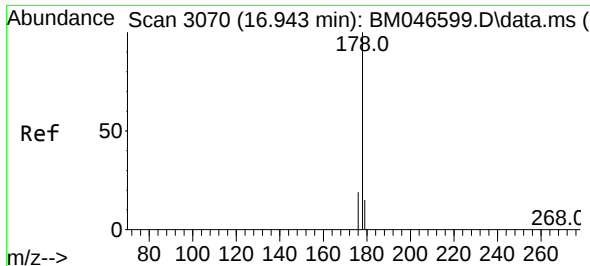
Reviewed By :Yogesh Patel 07/16/2024  
Supervised By :mohammad ahmed 07/18/2024



#12  
Fluorene  
Concen: 0.027 ng/ul  
RT: 15.205 min Scan# 2675  
Delta R.T. -0.001 min  
Lab File: BM046607.D  
Acq: 15 Jul 2024 21:56

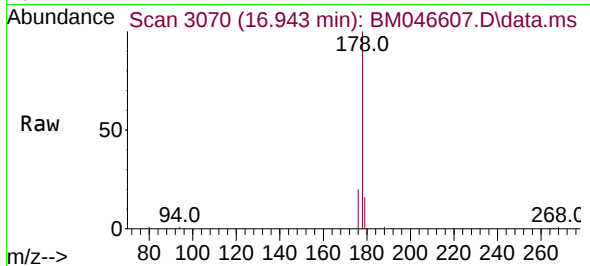
Tgt Ion:166 Resp: 516  
Ion Ratio Lower Upper  
166 100  
165 101.4 76.1 114.1  
167 28.5 12.5 18.7#





#15  
Phenanthrene  
Concen: 0.509 ng/ul  
RT: 16.943 min Scan# 3070  
Delta R.T. -0.000 min  
Lab File: BM046607.D  
Acq: 15 Jul 2024 21:56

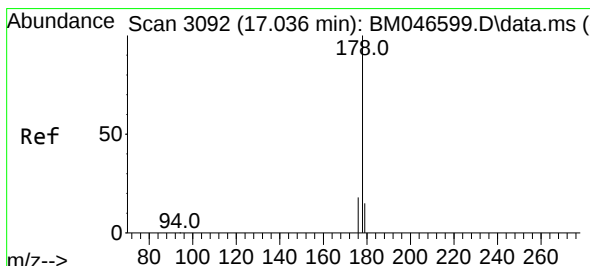
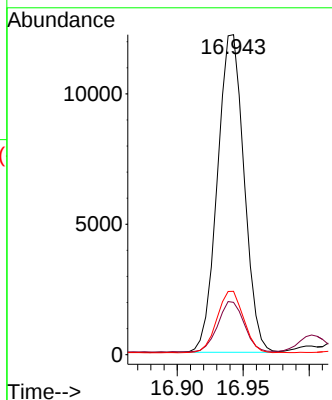
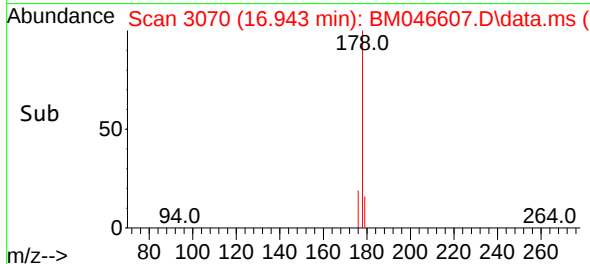
Instrument :  
BNA\_M  
ClientSampleId :  
A4BP1



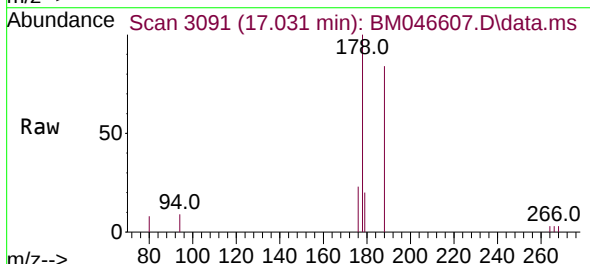
Tgt Ion:178 Resp: 1712  
Ion Ratio Lower Upper  
178 100  
179 16.3 13.1 19.7  
176 19.8 16.0 24.0

Manual Integrations  
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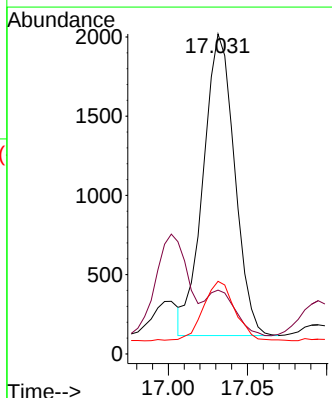
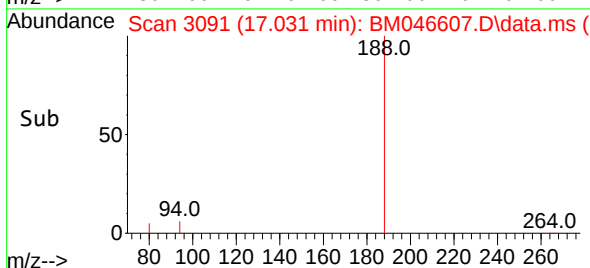
Reviewed By :Yogesh Patel 07/16/2024  
Supervised By :mohammad ahmed 07/18/2024

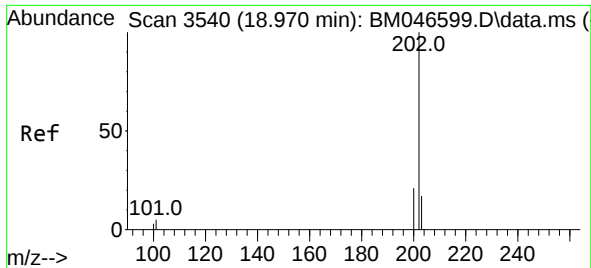


#16  
Anthracene  
Concen: 0.080 ng/ul  
RT: 17.031 min Scan# 3091  
Delta R.T. -0.000 min  
Lab File: BM046607.D  
Acq: 15 Jul 2024 21:56



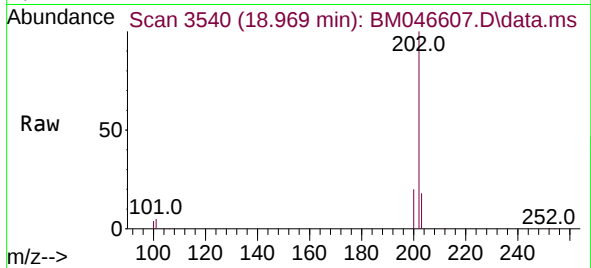
Tgt Ion:178 Resp: 2618  
Ion Ratio Lower Upper  
178 100  
179 19.9 13.5 20.3  
176 22.7 15.7 23.5





#19  
Fluoranthene  
Concen: 0.930 ng/ul  
RT: 18.969 min Scan# 3540  
Delta R.T. -0.000 min  
Lab File: BM046607.D  
Acq: 15 Jul 2024 21:56

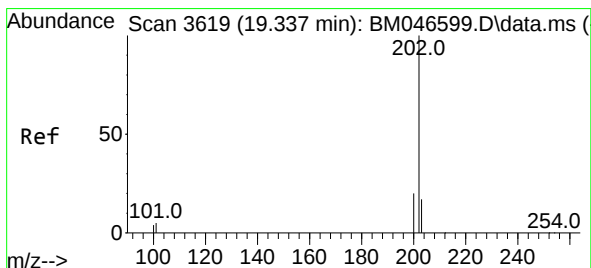
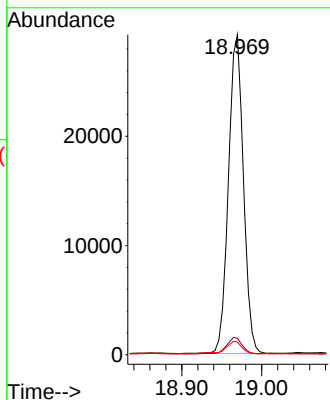
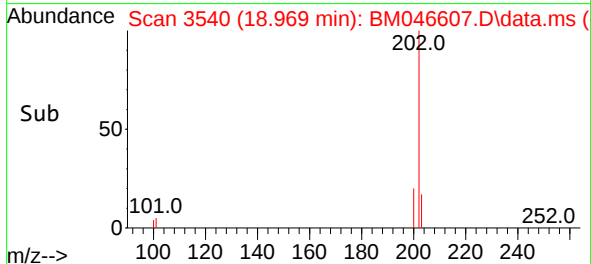
Instrument :  
BNA\_M  
ClientSampleId :  
A4BP1



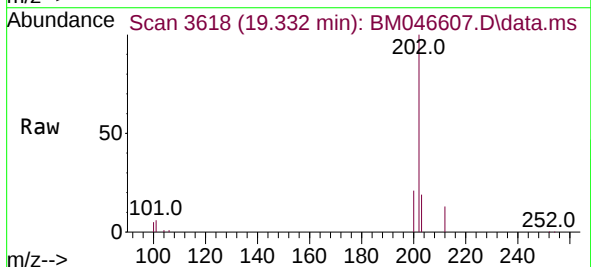
Tgt Ion:202 Resp: 3789  
Ion Ratio Lower Upper  
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101 5.1 4.6 6.8  
100 4.0 3.0 4.6

Manual Integrations  
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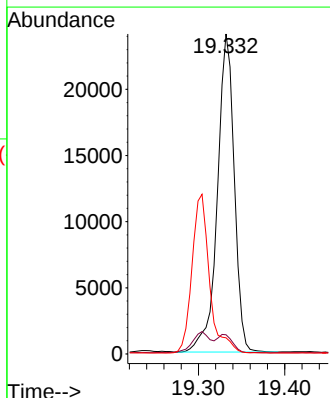
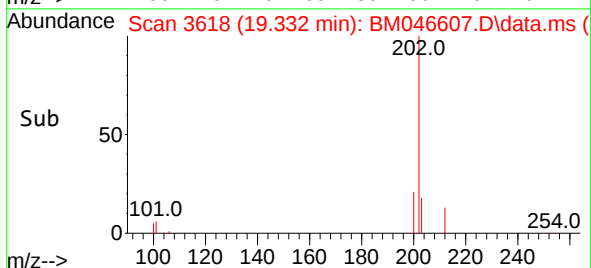
Reviewed By :Yogesh Patel 07/16/2024  
Supervised By :mohammad ahmed 07/18/2024

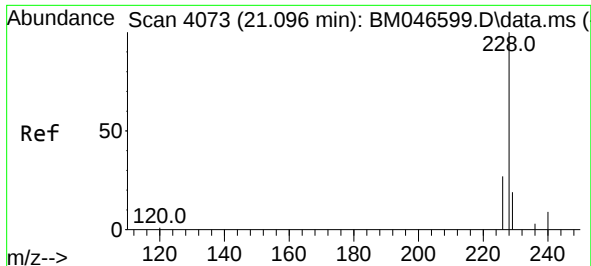


#20  
Pyrene  
Concen: 0.741 ng/ul  
RT: 19.332 min Scan# 3618  
Delta R.T. -0.000 min  
Lab File: BM046607.D  
Acq: 15 Jul 2024 21:56



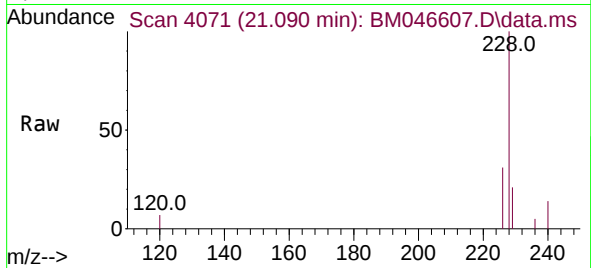
Tgt Ion:202 Resp: 32718  
Ion Ratio Lower Upper  
202 100  
101 6.0 5.1 7.7  
100 5.0 3.8 5.6





#21  
Benzo(a)anthracene  
Concen: 0.340 ng/ul  
RT: 21.090 min Scan# 4073  
Delta R.T. 0.002 min  
Lab File: BM046607.D  
Acq: 15 Jul 2024 21:56

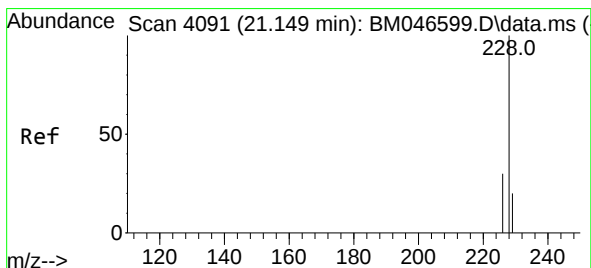
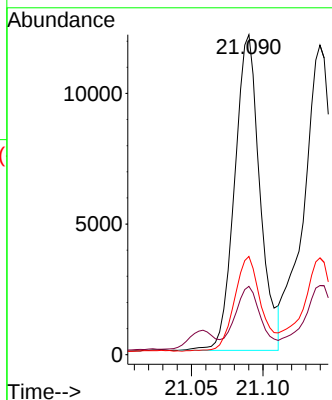
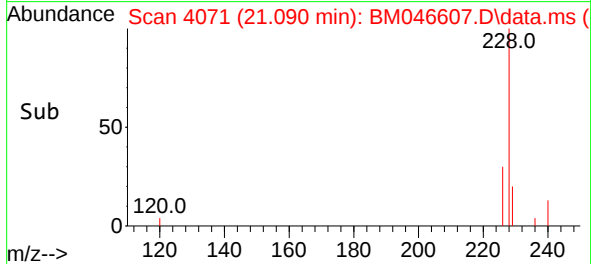
Instrument :  
BNA\_M  
ClientSampleId :  
A4BP1



Tgt Ion:228 Resp: 14923  
Ion Ratio Lower Upper  
228 100  
229 21.4 16.5 24.7  
226 30.7 22.5 33.7

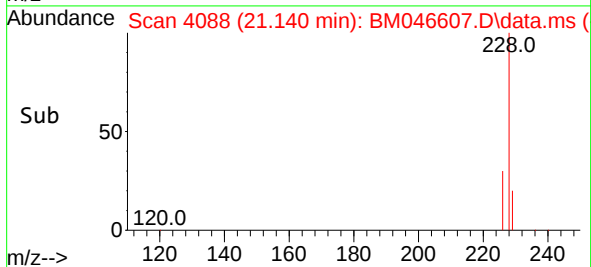
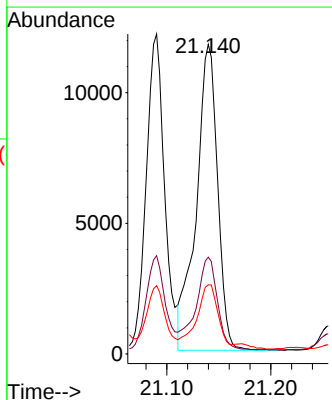
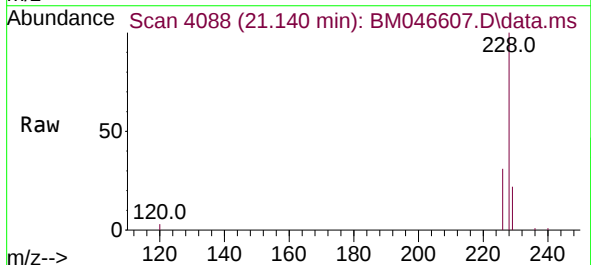
Manual Integrations  
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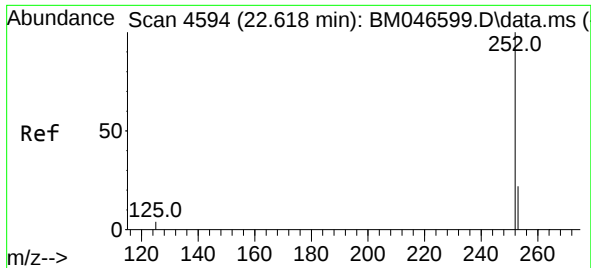
Reviewed By :Yogesh Patel 07/16/2024  
Supervised By :mohammad ahmed 07/18/2024



#22  
Chrysene  
Concen: 0.393 ng/ul  
RT: 21.140 min Scan# 4088  
Delta R.T. -0.000 min  
Lab File: BM046607.D  
Acq: 15 Jul 2024 21:56

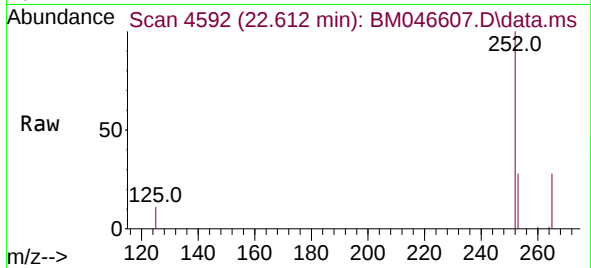
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Ion Ratio Lower Upper  
228 100  
226 31.3 24.3 36.5  
229 22.4 16.4 24.6





#24  
Benzo(b)fluoranthene  
Concen: 0.566 ng/ul m  
RT: 22.612 min Scan# 4592  
Delta R.T. 0.002 min  
Lab File: BM046607.D  
Acq: 15 Jul 2024 21:56

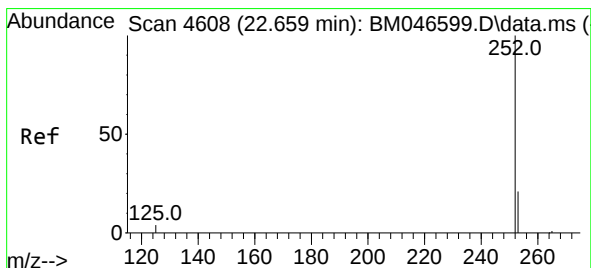
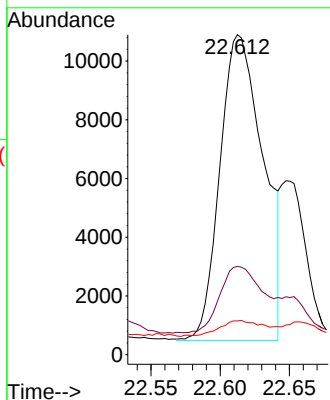
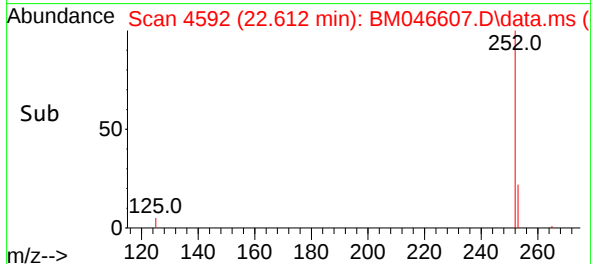
Instrument :  
BNA\_M  
ClientSampleId :  
A4BP1



Tgt Ion:252 Resp: 22720  
Ion Ratio Lower Upper  
252 100  
253 27.6 0.0 56.2  
125 10.6 0.0 17.8

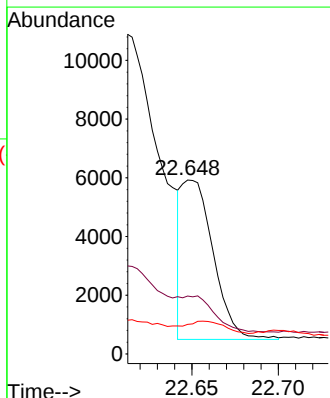
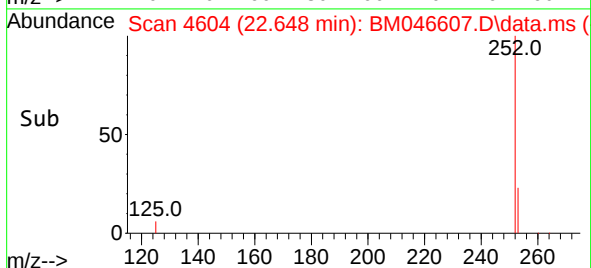
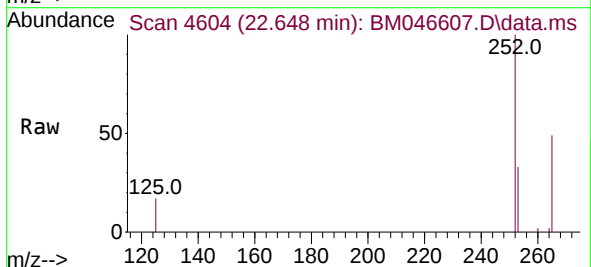
Manual Integrations  
APPROVED

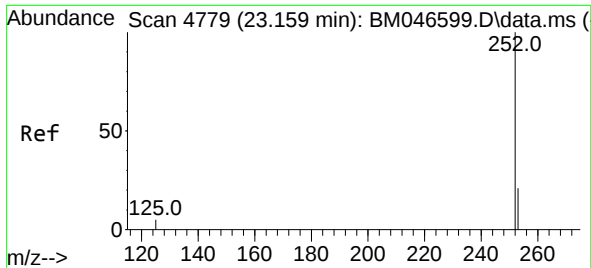
Reviewed By :Yogesh Patel 07/16/2024  
Supervised By :mohammad ahmed 07/18/2024



#25  
Benzo(k)fluoranthene  
Concen: 0.176 ng/ul m  
RT: 22.648 min Scan# 4604  
Delta R.T. -0.003 min  
Lab File: BM046607.D  
Acq: 15 Jul 2024 21:56

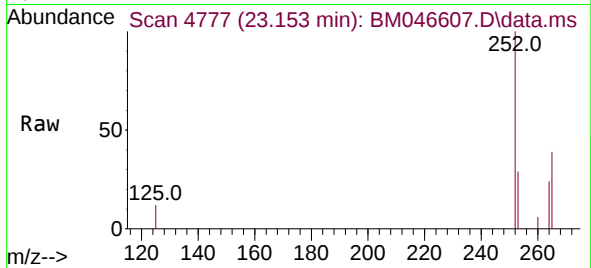
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Ion Ratio Lower Upper  
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253 33.4 22.4 33.6  
125 17.0 7.0 10.4#





#26  
Benzo(a)pyrene  
Concen: 0.387 ng/ul  
RT: 23.153 min Scan# 41  
Delta R.T. 0.002 min  
Lab File: BM046607.D  
Acq: 15 Jul 2024 21:56

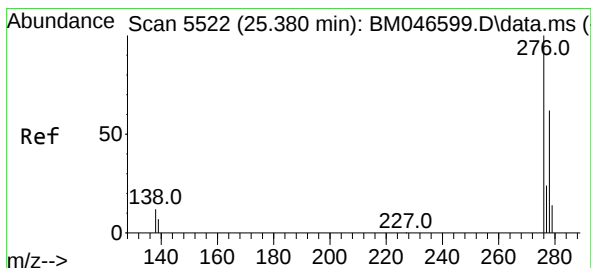
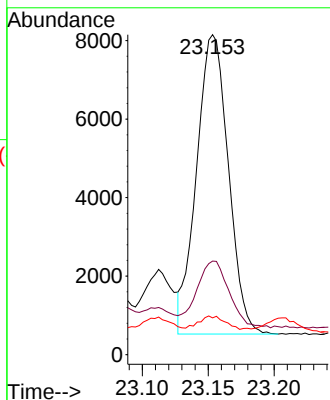
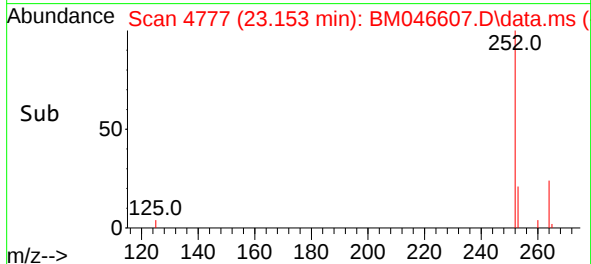
Instrument :  
BNA\_M  
ClientSampleId :  
A4BP1



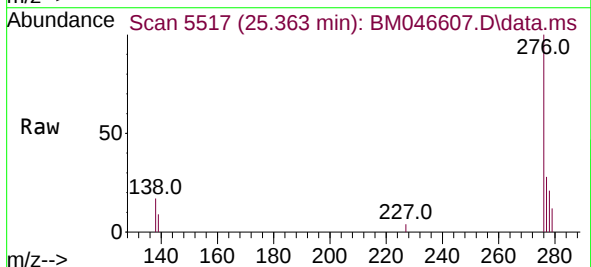
Tgt Ion:252 Resp: 12790  
Ion Ratio Lower Upper  
252 100  
253 29.3 24.0 36.0  
125 11.5 8.2 12.2

Manual Integrations  
APPROVED

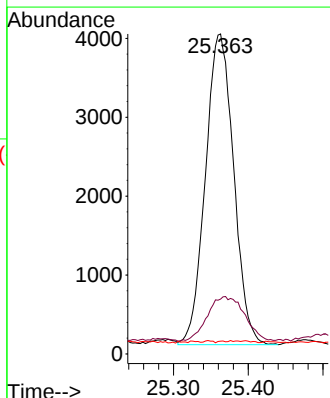
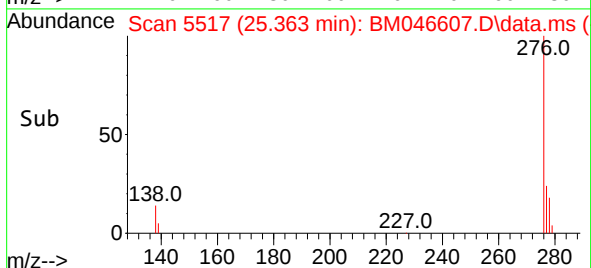
Reviewed By :Yogesh Patel 07/16/2024  
Supervised By :mohammad ahmed 07/18/2024

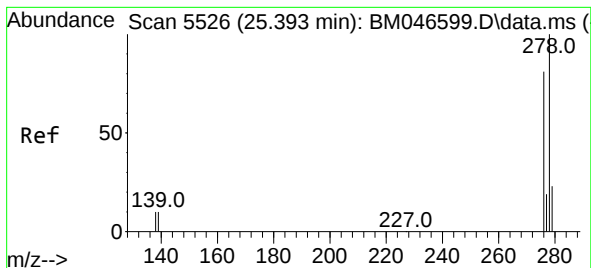


#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.206 ng/ul  
RT: 25.363 min Scan# 5517  
Delta R.T. 0.003 min  
Lab File: BM046607.D  
Acq: 15 Jul 2024 21:56



Tgt Ion:276 Resp: 10341  
Ion Ratio Lower Upper  
276 100  
138 18.7 0.0 0.0#  
227 0.1 0.2 0.2#





#28

Dibenzo(a,h)anthracene

Concen: 0.064 ng/ul

RT: 25.376 min Scan# 51

Delta R.T. -0.007 min

Lab File: BM046607.D

Acq: 15 Jul 2024 21:56

Instrument :

BNA\_M

ClientSampleId :

A4BP1

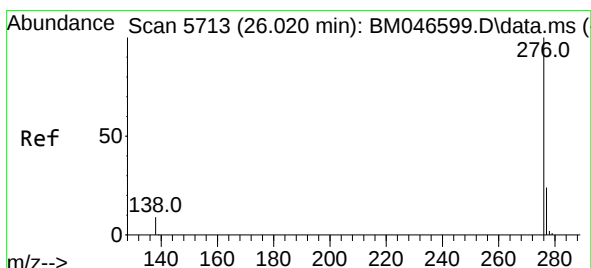
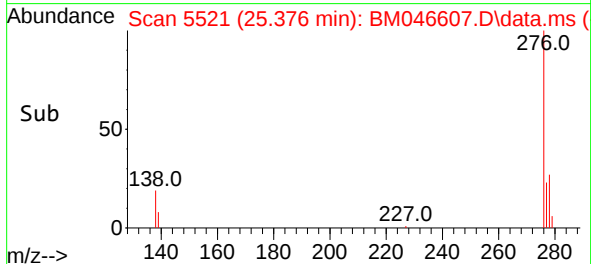
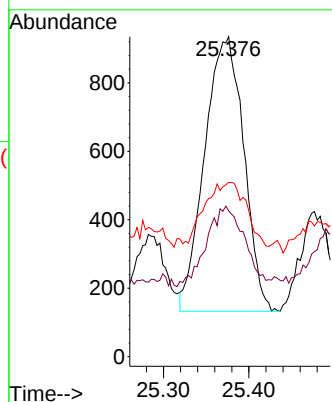
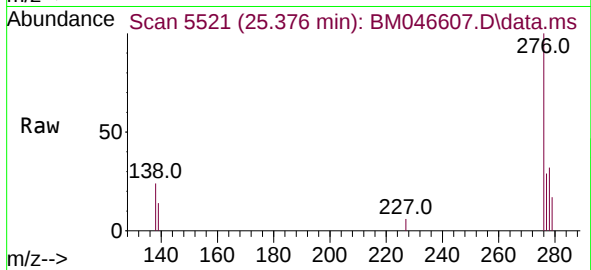
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:278 | Resp: | 2549      |
| Ion Ratio   | Lower | Upper     |
| 278         | 100   |           |
| 139         | 45.6  | 9.1 13.7  |
| 279         | 54.4  | 23.2 34.8 |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/16/2024

Supervised By :mohammad ahmed 07/18/2024



#29

Benzo(g,h,i)perylene

Concen: 0.252 ng/ul

RT: 26.007 min Scan# 5709

Delta R.T. 0.003 min

Lab File: BM046607.D

Acq: 15 Jul 2024 21:56

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:276 | Resp: | 10116     |
| Ion Ratio   | Lower | Upper     |
| 276         | 100   |           |
| 138         | 15.4  | 10.2 15.4 |
| 277         | 27.1  | 20.9 31.3 |

