

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM072023\  
 Data File : BM041009.D  
 Acq On : 21 Jul 2023 08:47  
 Operator : MA/JU  
 Sample : 03452-13DL 5X  
 Misc :  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A46P3DL

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 07/21/2023  
 Supervised By :mohammad ahmed 07/21/2023

Quant Time: Jul 21 09:24:10 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM071923.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jul 20 05:08:42 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.862  | 152  | 2849     | 0.400 | ng/ul  | -0.02    |
| 4) Naphthalene-d8           | 10.669 | 136  | 9652     | 0.400 | ng/ul  | #-0.01   |
| 9) Acenaphthene-d10         | 14.513 | 164  | 4410     | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.270 | 188  | 8300     | 0.400 | ng/ul  | -0.01    |
| 17) Chrysene-d12            | 21.466 | 240  | 5902     | 0.400 | ng/ul  | # 0.00   |
| 23) Perylene-d12            | 23.854 | 264  | 10848    | 0.400 | ng/ul  | #-0.02   |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.280  | 96   | 2302     | 0.491 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.264 | 152  | 892      | 0.069 | ng/ul  | -0.02    |
| 18) Fluoranthene-d10        | 19.301 | 212  | 1417     | 0.057 | ng/ul  | -0.01    |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.719 | 128  | 2226     | 0.084 | ng/ul# | 90       |
| 10) Acenaphthylene          | 14.236 | 152  | 581      | 0.031 | ng/ul# | 59       |
| 11) Acenaphthene            | 14.578 | 153  | 646      | 0.040 | ng/ul  | 92       |
| 12) Fluorene                | 15.568 | 166  | 622      | 0.037 | ng/ul# | 93       |
| 15) Phenanthrene            | 17.312 | 178  | 12901    | 0.520 | ng/ul  | 99       |
| 16) Anthracene              | 17.405 | 178  | 2179     | 0.113 | ng/ul# | 88       |
| 19) Fluoranthene            | 19.334 | 202  | 31737    | 1.042 | ng/ul  | 97       |
| 20) Pyrene                  | 19.696 | 202  | 20633    | 0.663 | ng/ul  | 98       |
| 21) Benzo(a)anthracene      | 21.448 | 228  | 10335    | 0.575 | ng/ul  | 96       |
| 22) Chrysene                | 21.501 | 228  | 11910    | 0.579 | ng/ul  | 97       |
| 24) Benzo(b)fluoranthene    | 23.126 | 252  | 15693    | 0.377 | ng/ul  | 97       |
| 25) Benzo(k)fluoranthene    | 23.173 | 252  | 6403m    | 0.162 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.749 | 252  | 9423     | 0.262 | ng/ul# | 86       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.324 | 276  | 5308     | 0.111 | ng/ul# | 92       |
| 28) Dibenzo(a,h)anthracene  | 26.337 | 278  | 1791     | 0.050 | ng/ul# | 39       |
| -----                       |        |      |          |       |        |          |

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

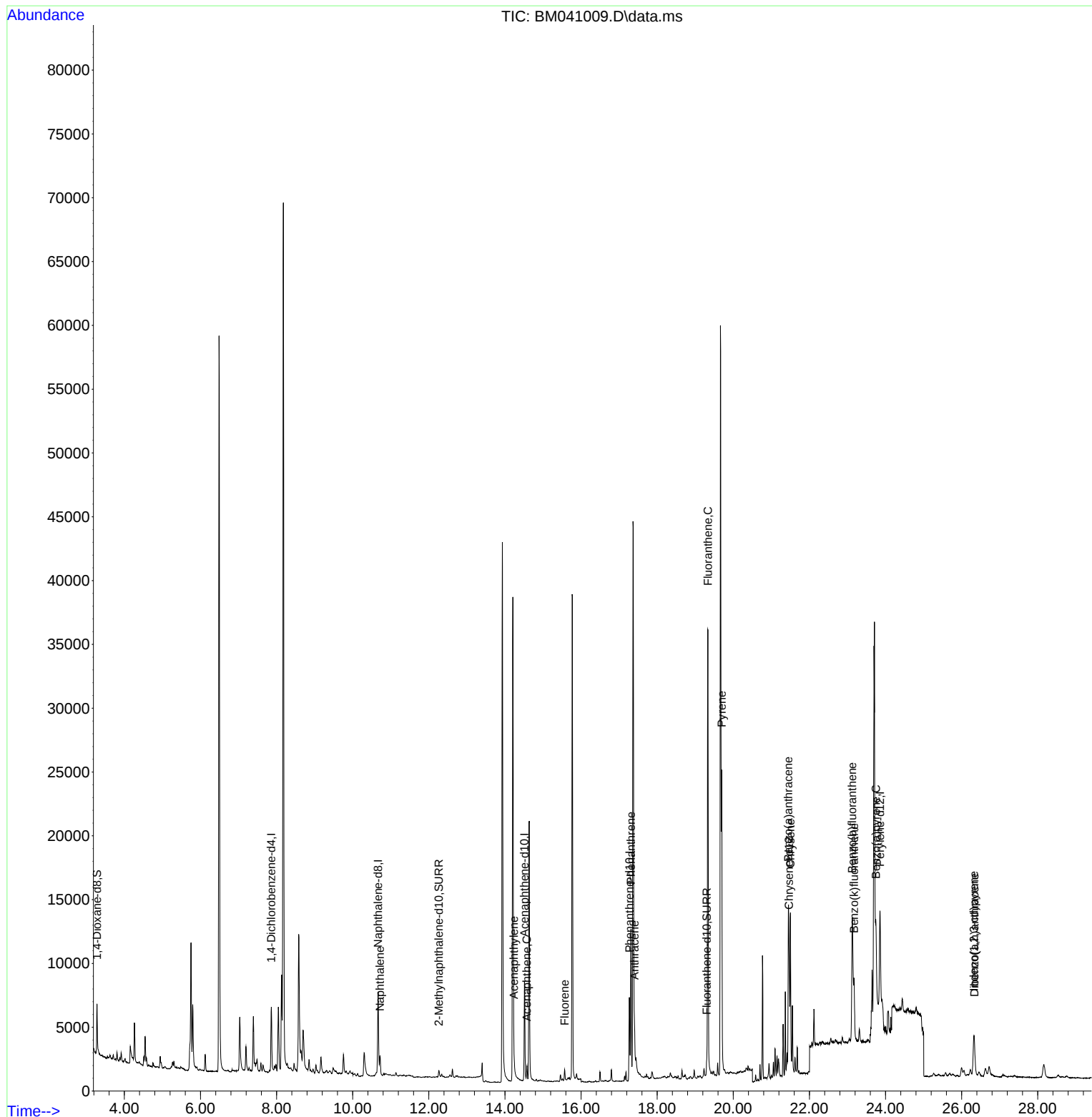
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM072023\  
Data File : BM041009.D  
Acq On : 21 Jul 2023 08:47  
Operator : MA/JU  
Sample : 03452-13DL 5X  
Misc :  
ALS Vial : 41 Sample Multiplier: 1

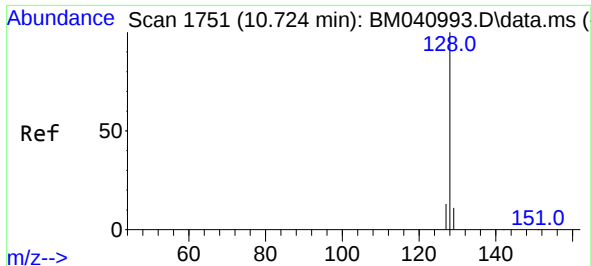
Instrument :  
BNA\_M  
ClientSampleId :  
A46P3DL

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 07/21/2023  
Supervised By :mohammad ahmed 07/21/2023

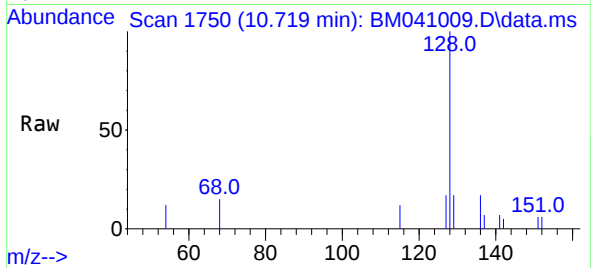
Quant Time: Jul 21 09:24:10 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM071923.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jul 20 05:08:42 2023  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.084 ng/u1  
RT: 10.719 min Scan# 11  
Delta R.T. -0.011 min  
Lab File: BM041009.D  
Acq: 21 Jul 2023 08:47

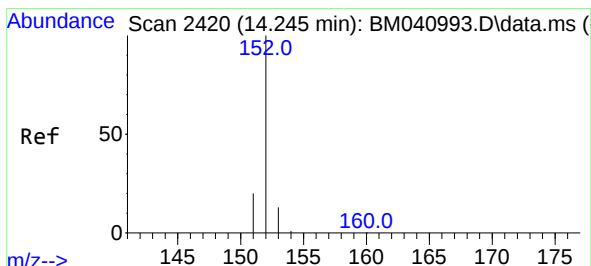
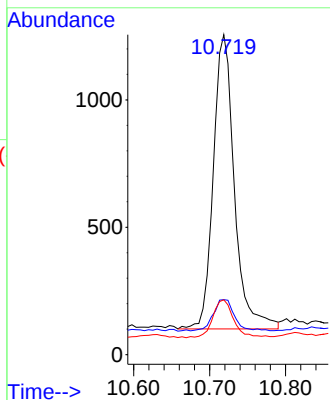
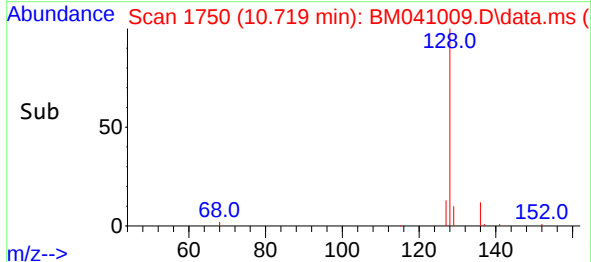
Instrument :  
BNA\_M  
ClientSampleId :  
A46P3DL



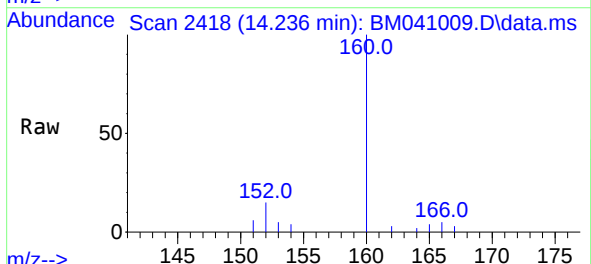
Tgt Ion:128 Resp: 2220  
Ion Ratio Lower Upper  
128 100  
129 17.2 9.8 14.8#  
127 17.1 11.0 16.4#

Manual Integrations  
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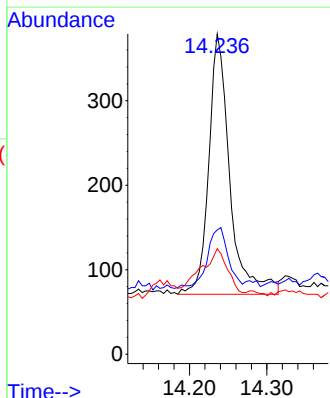
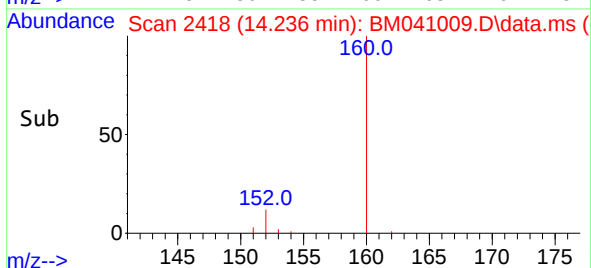
Reviewed By :Yogesh Patel 07/21/2023  
Supervised By :mohammad ahmed 07/21/2023

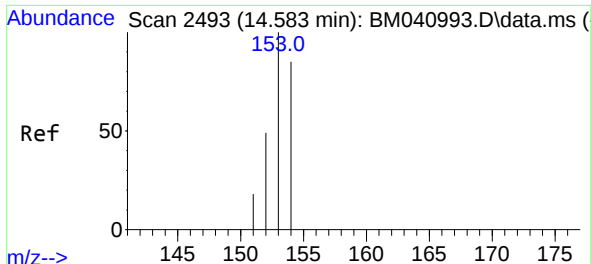


#10  
Acenaphthylene  
Concen: 0.031 ng/u1  
RT: 14.236 min Scan# 2418  
Delta R.T. -0.014 min  
Lab File: BM041009.D  
Acq: 21 Jul 2023 08:47



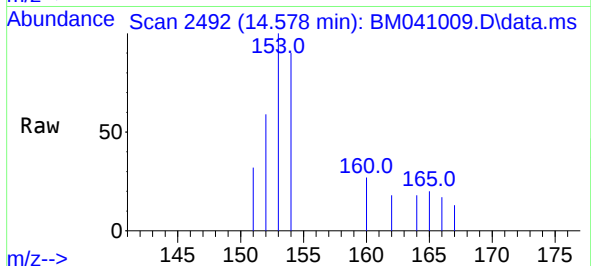
Tgt Ion:152 Resp: 581  
Ion Ratio Lower Upper  
152 100  
151 38.8 16.8 25.2#  
153 33.0 11.6 17.4#





#11  
Acenaphthene  
Concen: 0.040 ng/ul  
RT: 14.578 min Scan# 2492  
Delta R.T. -0.009 min  
Lab File: BM041009.D  
Acq: 21 Jul 2023 08:47

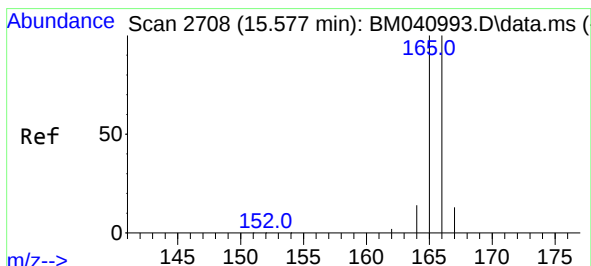
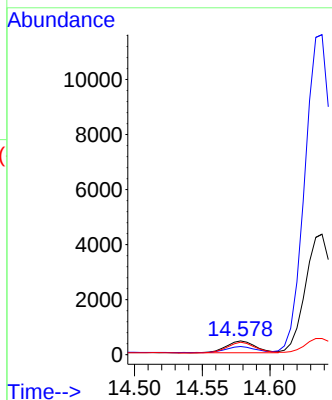
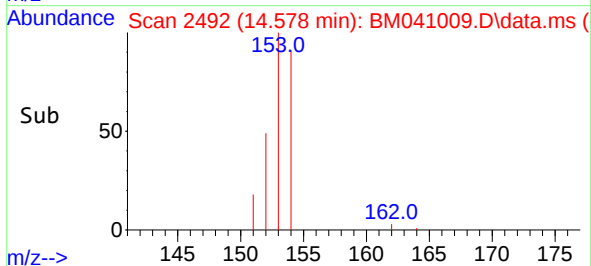
Instrument :  
BNA\_M  
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A46P3DL



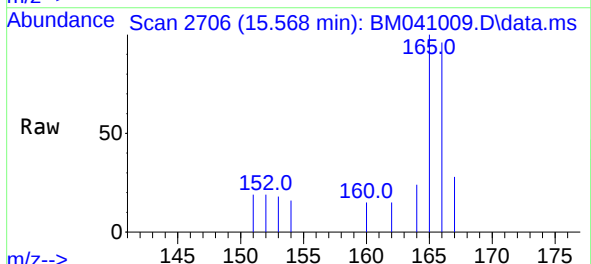
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Ion Ratio Lower Upper  
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152 58.9 41.0 61.6  
154 90.4 68.2 102.2

Manual Integrations  
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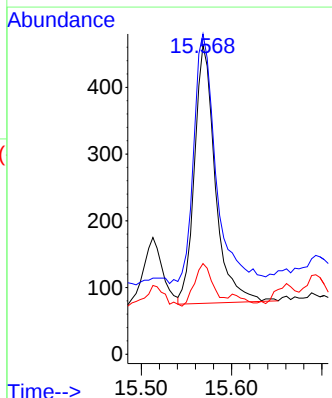
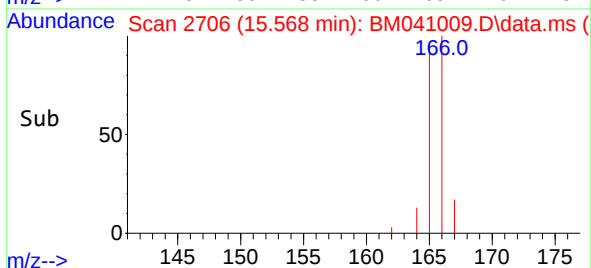
Reviewed By :Yogesh Patel 07/21/2023  
Supervised By :mohammad ahmed 07/21/2023

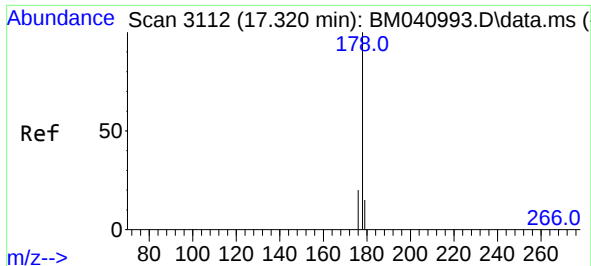


#12  
Fluorene  
Concen: 0.037 ng/ul  
RT: 15.568 min Scan# 2706  
Delta R.T. -0.014 min  
Lab File: BM041009.D  
Acq: 21 Jul 2023 08:47



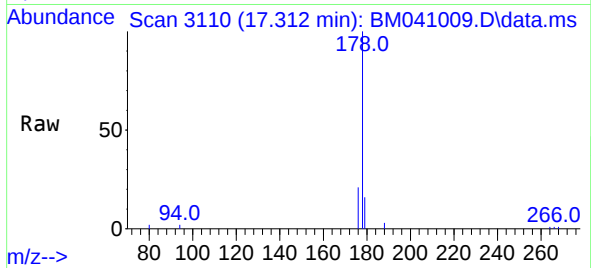
Tgt Ion:166 Resp: 622  
Ion Ratio Lower Upper  
166 100  
165 103.7 80.3 120.5  
167 29.4 11.7 17.5#





#15  
Phenanthrene  
Concen: 0.520 ng/ul  
RT: 17.312 min Scan# 3112  
Delta R.T. -0.012 min  
Lab File: BM041009.D  
Acq: 21 Jul 2023 08:47

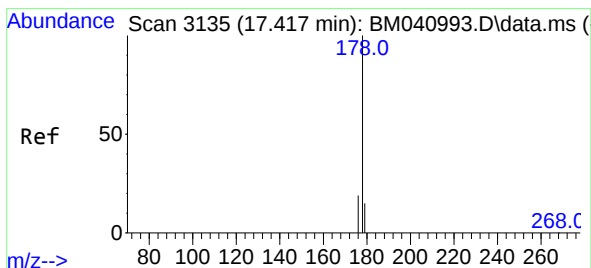
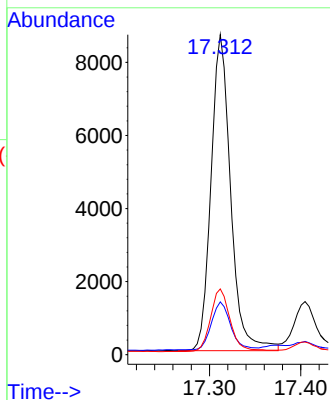
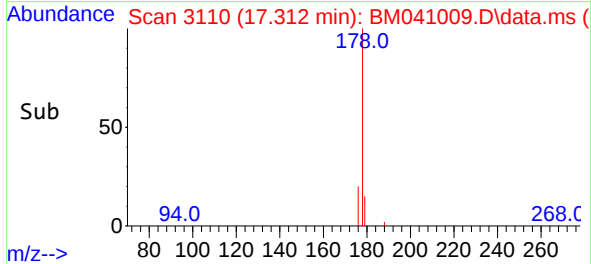
Instrument :  
BNA\_M  
ClientSampleId :  
A46P3DL



Tgt Ion:178 Resp: 1290  
Ion Ratio Lower Upper  
178 100  
179 16.5 13.0 19.6  
176 20.6 16.2 24.4

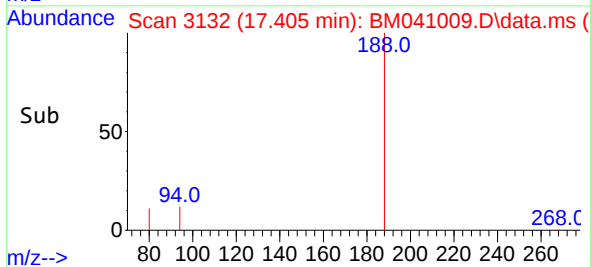
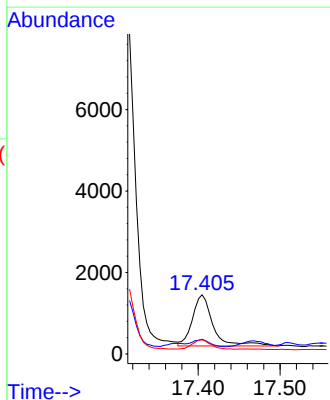
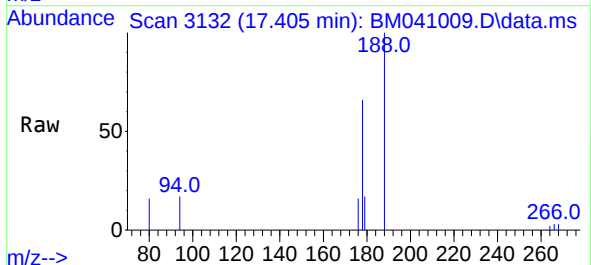
Manual Integrations  
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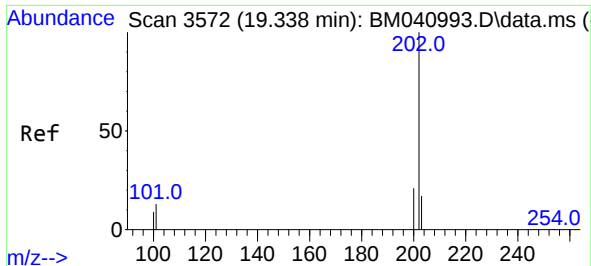
Reviewed By :Yogesh Patel 07/21/2023  
Supervised By :mohammad ahmed 07/21/2023



#16  
Anthracene  
Concen: 0.113 ng/ul  
RT: 17.405 min Scan# 3132  
Delta R.T. -0.017 min  
Lab File: BM041009.D  
Acq: 21 Jul 2023 08:47

Tgt Ion:178 Resp: 2179  
Ion Ratio Lower Upper  
178 100  
179 24.9 13.7 20.5#  
176 23.7 16.4 24.6





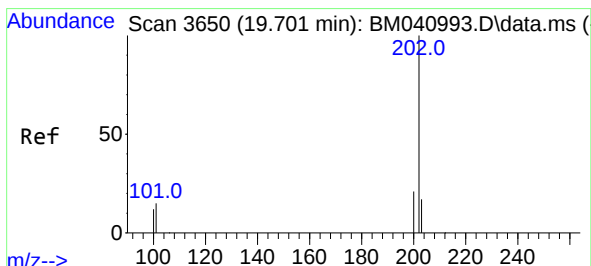
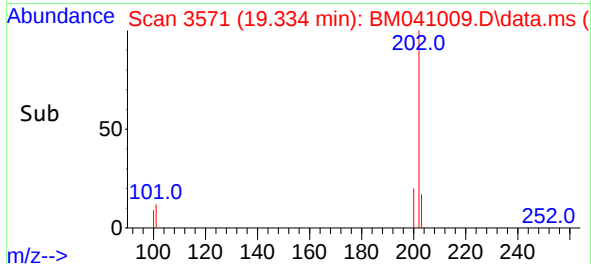
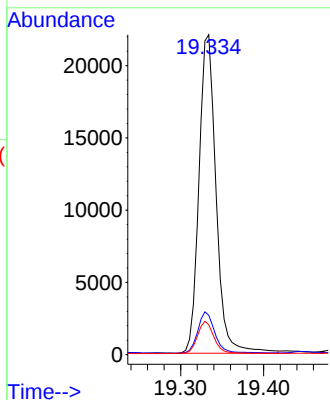
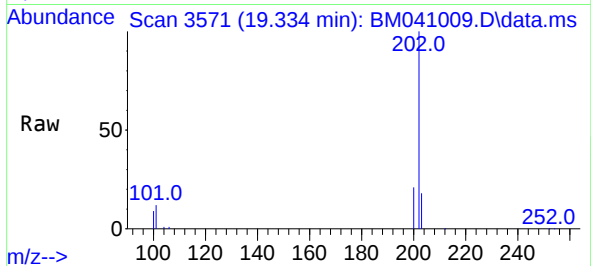
#19  
Fluoranthene  
Concen: 1.042 ng/u1  
RT: 19.334 min Scan# 3173  
Delta R.T. -0.009 min  
Lab File: BM041009.D  
Acq: 21 Jul 2023 08:47

Instrument :  
BNA\_M  
ClientSampleId :  
A46P3DL

Tgt Ion:202 Resp: 3173  
Ion Ratio Lower Upper  
202 100  
101 12.3 11.0 16.4  
100 9.4 8.3 12.5

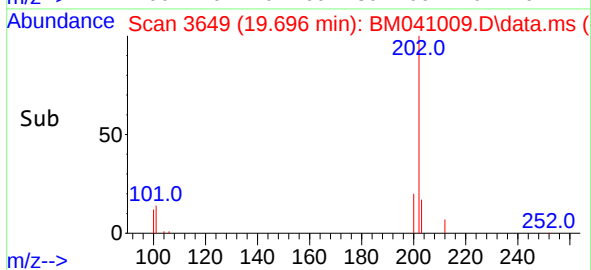
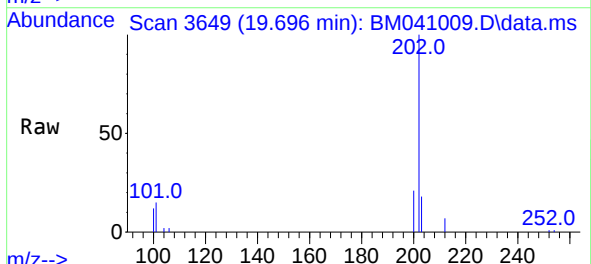
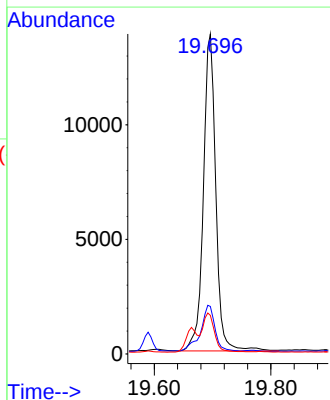
Manual Integrations  
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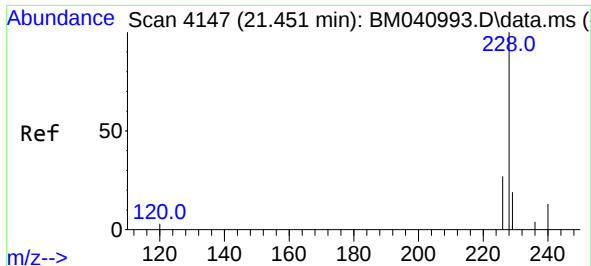
Reviewed By :Yogesh Patel 07/21/2023  
Supervised By :mohammad ahmed 07/21/2023



#20  
Pyrene  
Concen: 0.663 ng/u1  
RT: 19.696 min Scan# 3649  
Delta R.T. -0.009 min  
Lab File: BM041009.D  
Acq: 21 Jul 2023 08:47

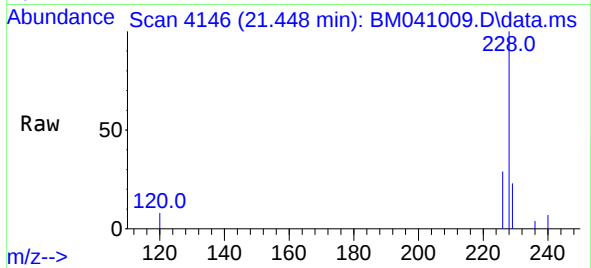
Tgt Ion:202 Resp: 20633  
Ion Ratio Lower Upper  
202 100  
101 14.8 12.5 18.7  
100 12.1 10.0 15.0





#21  
Benzo(a)anthracene  
Concen: 0.575 ng/ul  
RT: 21.448 min Scan# 4146  
Delta R.T. -0.009 min  
Lab File: BM041009.D  
Acq: 21 Jul 2023 08:47

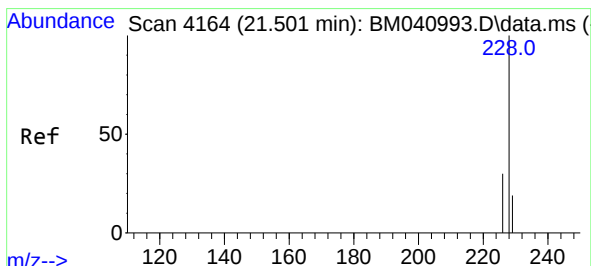
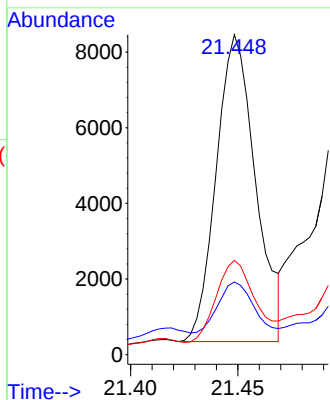
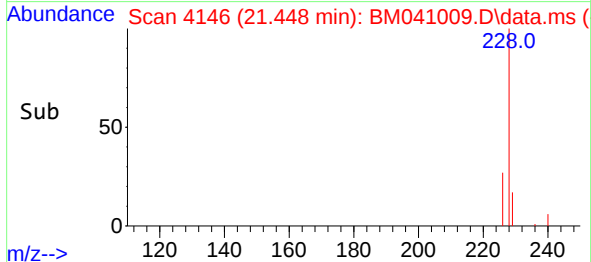
Instrument :  
BNA\_M  
ClientSampleId :  
A46P3DL



Tgt Ion:228 Resp: 10335  
Ion Ratio Lower Upper  
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229 22.7 16.2 24.4  
226 29.5 22.3 33.5

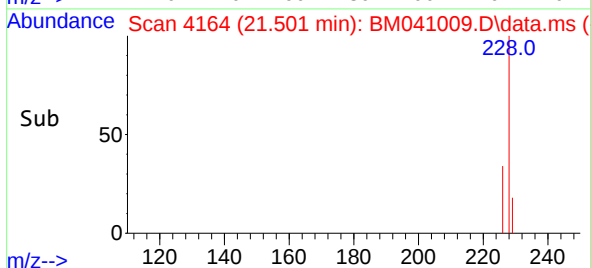
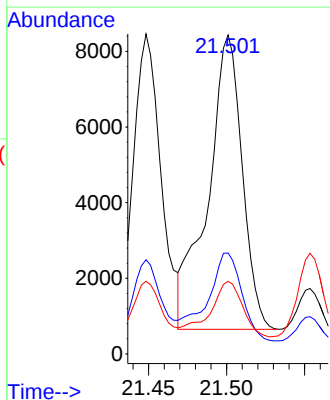
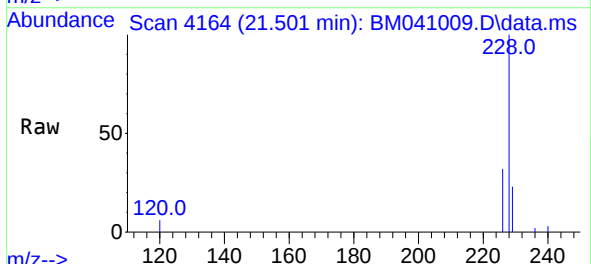
Manual Integrations  
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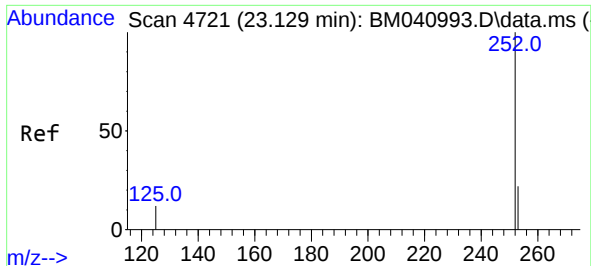
Reviewed By :Yogesh Patel 07/21/2023  
Supervised By :mohammad ahmed 07/21/2023



#22  
Chrysene  
Concen: 0.579 ng/ul  
RT: 21.501 min Scan# 4164  
Delta R.T. -0.006 min  
Lab File: BM041009.D  
Acq: 21 Jul 2023 08:47

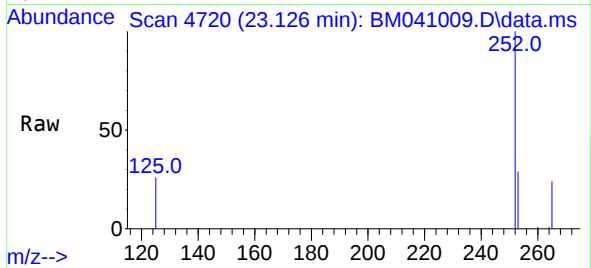
Tgt Ion:228 Resp: 11910  
Ion Ratio Lower Upper  
228 100  
226 31.6 24.6 37.0  
229 22.8 16.1 24.1





#24  
Benzo(b)fluoranthene  
Concen: 0.377 ng/ul  
RT: 23.126 min Scan# 4720  
Delta R.T. -0.009 min  
Lab File: BM041009.D  
Acq: 21 Jul 2023 08:47

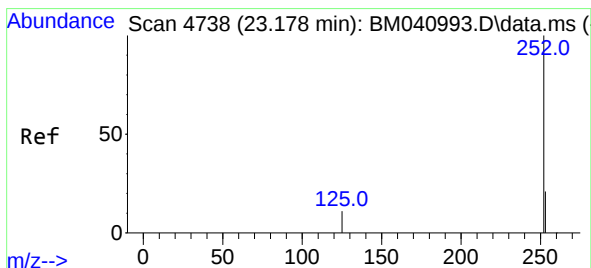
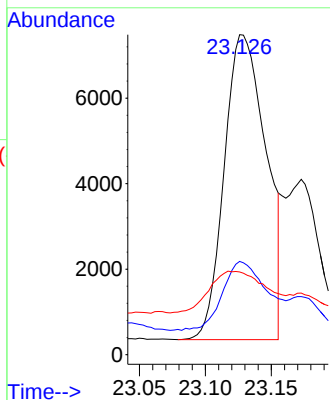
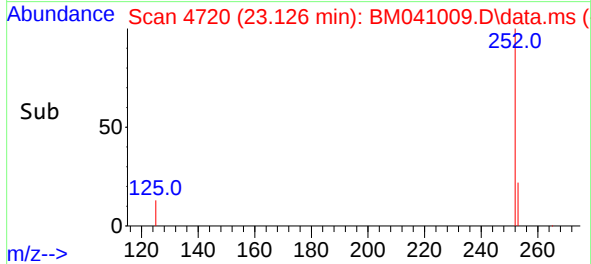
Instrument :  
BNA\_M  
ClientSampleId :  
A46P3DL



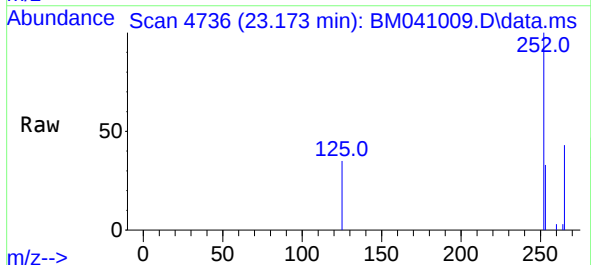
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125 25.8 0.0 45.2

Manual Integrations  
APPROVED

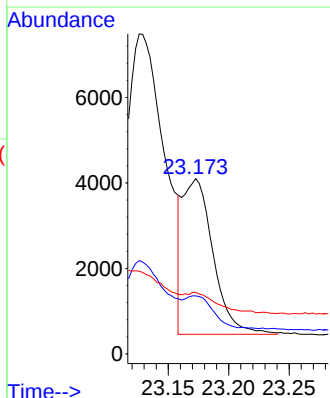
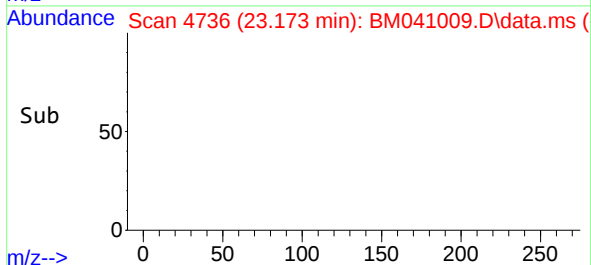
Reviewed By :Yogesh Patel 07/21/2023  
Supervised By :mohammad ahmed 07/21/2023

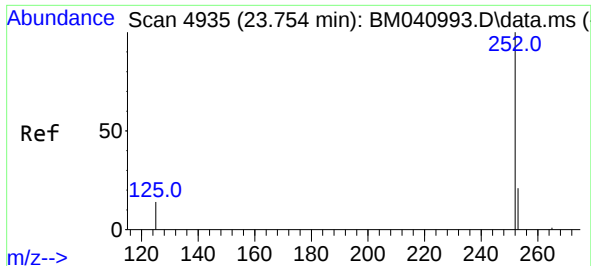


#25  
Benzo(k)fluoranthene  
Concen: 0.162 ng/ul m  
RT: 23.173 min Scan# 4736  
Delta R.T. -0.014 min  
Lab File: BM041009.D  
Acq: 21 Jul 2023 08:47



Tgt Ion:252 Resp: 6403  
Ion Ratio Lower Upper  
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125 35.1 18.2 27.2#





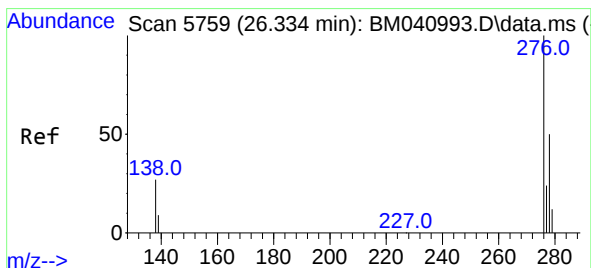
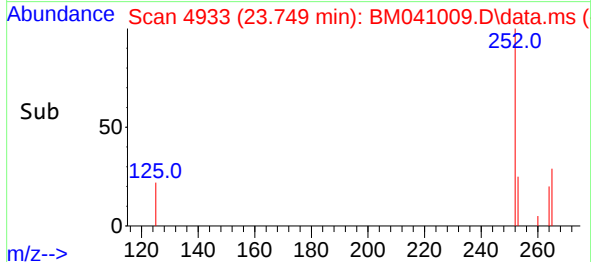
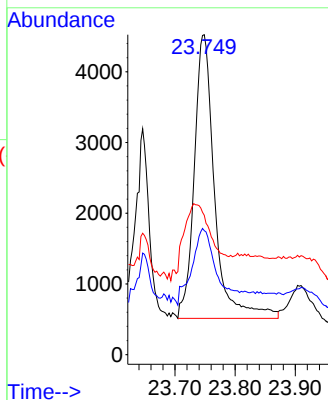
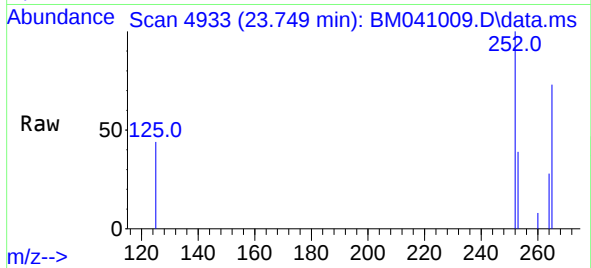
#26  
Benzo(a)pyrene  
Concen: 0.262 ng/ul  
RT: 23.749 min Scan# 4933  
Delta R.T. -0.014 min  
Lab File: BM041009.D  
Acq: 21 Jul 2023 08:47

Instrument :  
BNA\_M  
ClientSampleId :  
A46P3DL

Tgt Ion:252 Resp: 942  
Ion Ratio Lower Upper  
252 100  
253 38.8 28.2 42.2  
125 43.6 25.2 37.8

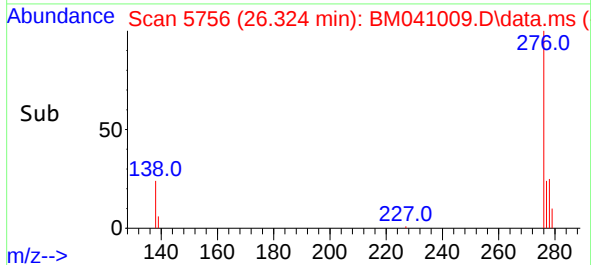
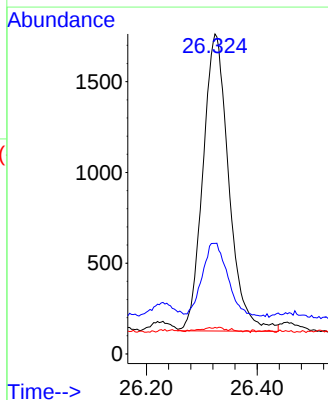
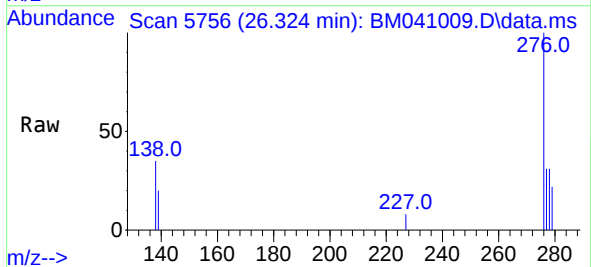
Manual Integrations  
APPROVED

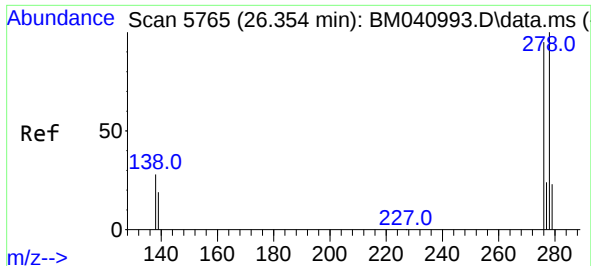
Reviewed By :Yogesh Patel 07/21/2023  
Supervised By :mohammad ahmed 07/21/2023



#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.111 ng/ul  
RT: 26.324 min Scan# 5756  
Delta R.T. -0.027 min  
Lab File: BM041009.D  
Acq: 21 Jul 2023 08:47

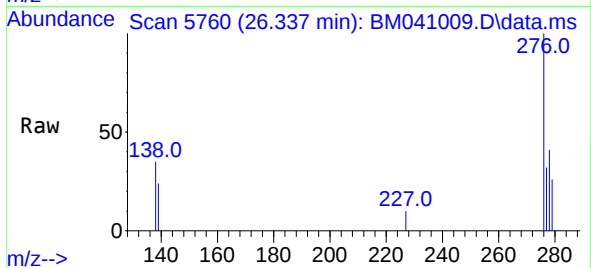
Tgt Ion:276 Resp: 5308  
Ion Ratio Lower Upper  
276 100  
138 23.8 22.3 33.5  
227 1.2 0.0 0.0





#28  
Dibenzo(a,h)anthracene  
Concen: 0.050 ng/ul  
RT: 26.337 min Scan# 51  
Delta R.T. -0.030 min  
Lab File: BM041009.D  
Acq: 21 Jul 2023 08:47

Instrument :  
BNA\_M  
ClientSampleId :  
A46P3DL



Tgt Ion:278 Resp: 179  
Ion Ratio Lower Upper  
278 100  
139 58.5 19.2 28.8  
279 65.1 27.0 40.6

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 07/21/2023  
Supervised By :mohammad ahmed 07/21/2023

