

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM072023\  
 Data File : BM041008.D  
 Acq On : 21 Jul 2023 08:10  
 Operator : MA/JU  
 Sample : 03444-22  
 Misc :  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A46Y3

Manual Integrations  
 APPROVED

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

Quant Time: Jul 21 08:40:43 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   | 7.861  | 152  | 4366     | 0.400 | ng/ul  | -0.02    |
| 4) Naphthalene-d8           | 10.664 | 136  | 15219    | 0.400 | ng/ul  | #-0.02   |
| 9) Acenaphthene-d10         | 14.513 | 164  | 9800     | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.269 | 188  | 21106    | 0.400 | ng/ul  | -0.01    |
| 17) Chrysene-d12            | 21.463 | 240  | 13944    | 0.400 | ng/ul  | 0.00     |
| 23) Perylene-d12            | 23.854 | 264  | 13648    | 0.400 | ng/ul  | #-0.02   |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.279  | 96   | 8442     | 1.176 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.258 | 152  | 4122     | 0.203 | ng/ul  | -0.02    |
| 18) Fluoranthene-d10        | 19.301 | 212  | 10036    | 0.171 | ng/ul  | -0.01    |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.713 | 128  | 25901    | 0.622 | ng/ul  | 99       |
| 7) 2-Methylnaphthalene      | 12.335 | 142  | 2822     | 0.124 | ng/ul  | 97       |
| 8) 1-Methylnaphthalene      | 12.555 | 142  | 2443     | 0.101 | ng/ul  | 100      |
| 10) Acenaphthylene          | 14.236 | 152  | 5570     | 0.136 | ng/ul# | 92       |
| 11) Acenaphthene            | 14.578 | 153  | 9490     | 0.262 | ng/ul  | 98       |
| 12) Fluorene                | 15.568 | 166  | 12588    | 0.336 | ng/ul  | 98       |
| 15) Phenanthrene            | 17.312 | 178  | 206119   | 3.267 | ng/ul  | 98       |
| 16) Anthracene              | 17.405 | 178  | 20412    | 0.415 | ng/ul  | 98       |
| 19) Fluoranthene            | 19.329 | 202  | 326206   | 4.531 | ng/ul  | 94       |
| 20) Pyrene                  | 19.696 | 202  | 252893   | 3.438 | ng/ul# | 92       |
| 21) Benzo(a)anthracene      | 21.445 | 228  | 104376   | 2.457 | ng/ul  | 99       |
| 22) Chrysene                | 21.498 | 228  | 121417   | 2.500 | ng/ul  | 98       |
| 24) Benzo(b)fluoranthene    | 23.126 | 252  | 142989   | 2.730 | ng/ul  | 86       |
| 25) Benzo(k)fluoranthene    | 23.170 | 252  | 54540m   | 1.096 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.746 | 252  | 45436    | 1.004 | ng/ul# | 80       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.320 | 276  | 39608    | 0.660 | ng/ul# | 92       |
| 28) Dibenzo(a,h)anthracene  | 26.330 | 278  | 9705     | 0.214 | ng/ul  | 96       |
| 29) Benzo(g,h,i)perylene    | 27.078 | 276  | 37754    | 0.680 | ng/ul  | 95       |
| -----                       |        |      |          |       |        |          |

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

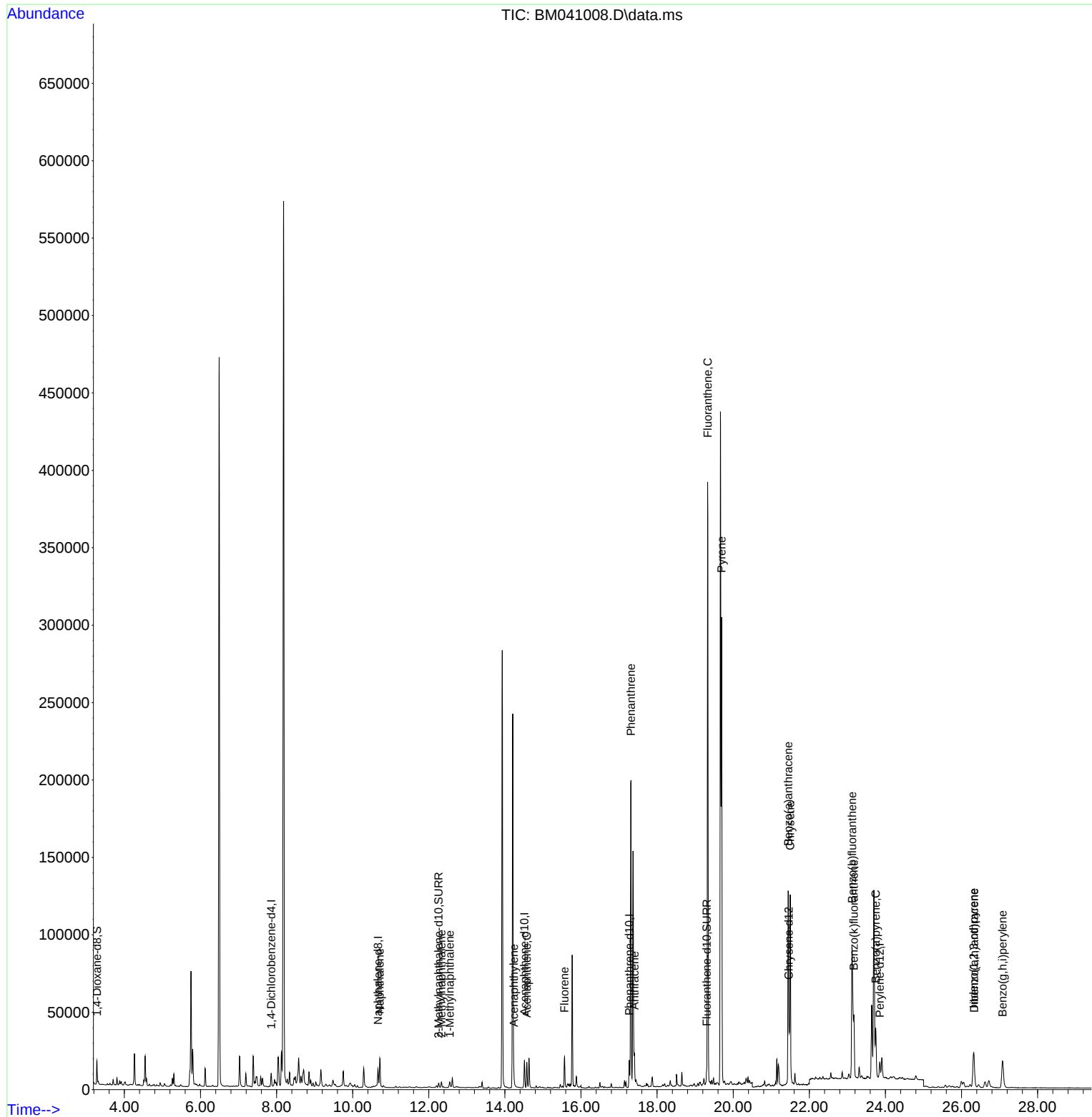
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM072023\  
Data File : BM041008.D  
Acq On : 21 Jul 2023 08:10  
Operator : MA/JU  
Sample : 03444-22  
Misc :  
ALS Vial : 40 Sample Multiplier: 1

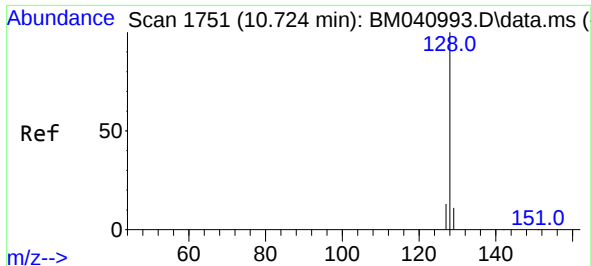
Instrument :  
BNA\_M  
ClientSampleId :  
A46Y3

Manual Integrations  
APPROVED

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

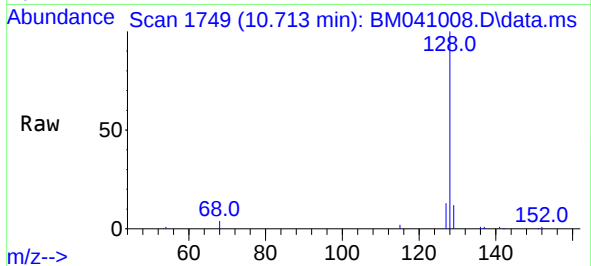
Quant Time: Jul 21 08:40:43 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM071923.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jul 20 05:08:42 2023  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.622 ng/ul  
RT: 10.713 min Scan# 1751  
Delta R.T. -0.017 min  
Lab File: BM041008.D  
Acq: 21 Jul 2023 08:10

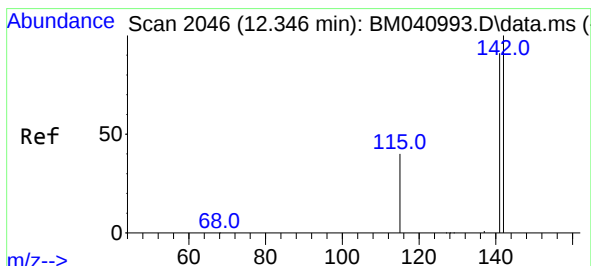
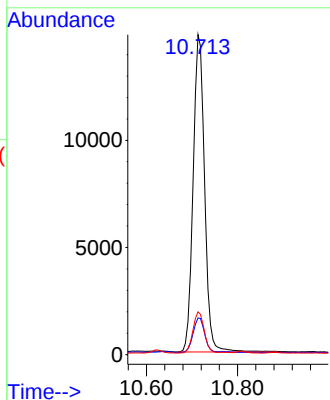
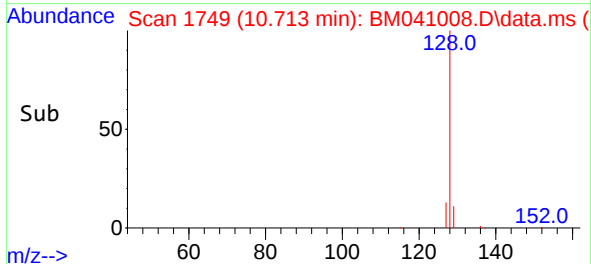
Instrument :  
BNA\_M  
ClientSampleId :  
A46Y3



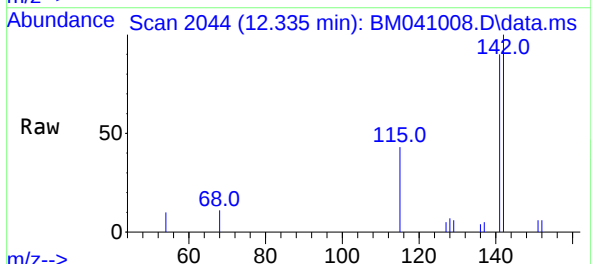
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Ion Ratio Lower Upper  
128 100  
129 11.5 9.8 14.8  
127 13.4 11.0 16.4

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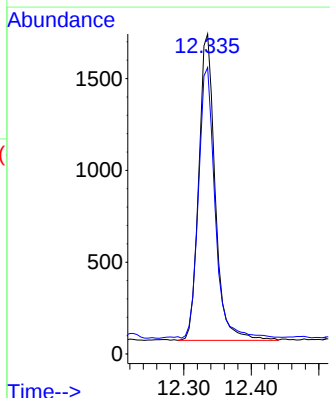
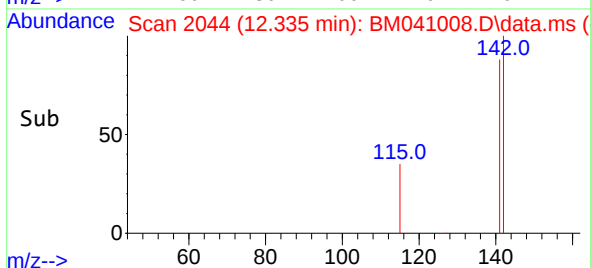
Reviewed By :Yogesh Patel 07/21/2023  
Supervised By :mohammad ahmed 07/21/2023

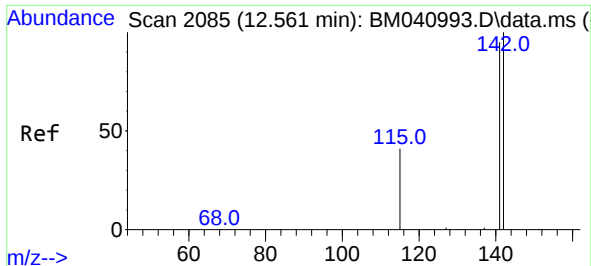


#7  
2-Methylnaphthalene  
Concen: 0.124 ng/ul  
RT: 12.335 min Scan# 2044  
Delta R.T. -0.017 min  
Lab File: BM041008.D  
Acq: 21 Jul 2023 08:10



Tgt Ion:142 Resp: 2822  
Ion Ratio Lower Upper  
142 100  
141 88.9 73.2 109.8





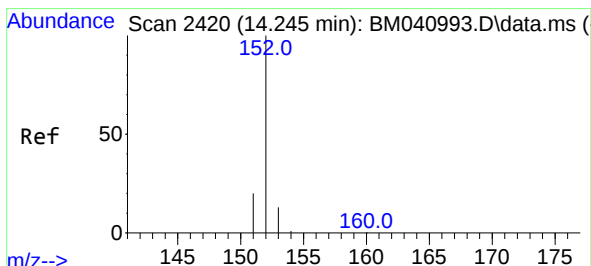
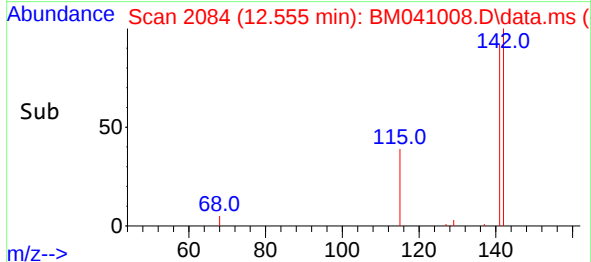
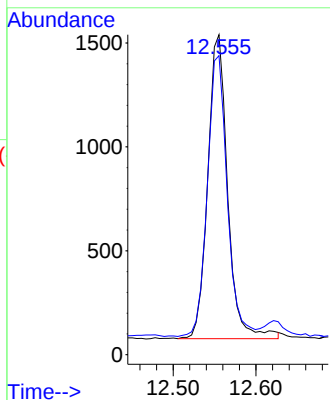
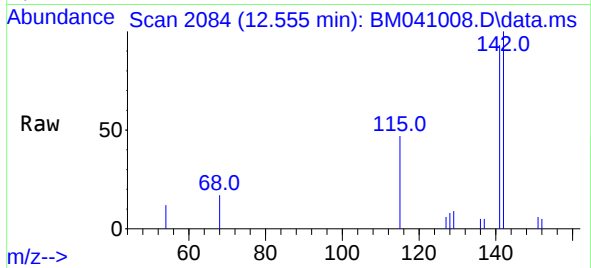
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1-Methylnaphthalene  
Concen: 0.101 ng/ul  
RT: 12.555 min Scan# 2085  
Delta R.T. -0.011 min  
Lab File: BM041008.D  
Acq: 21 Jul 2023 08:10

Instrument :  
BNA\_M  
ClientSampleId :  
A46Y3

Tgt Ion:142 Resp: 244  
Ion Ratio Lower Upper  
142 100  
141 91.6 73.4 110.2

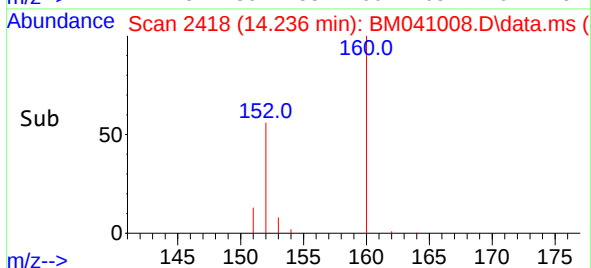
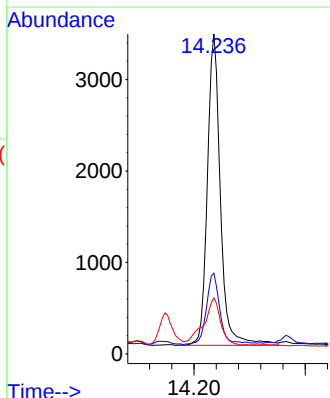
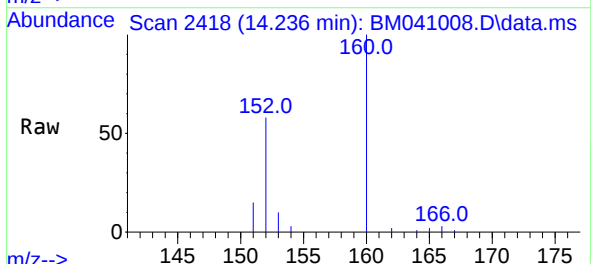
Manual Integrations  
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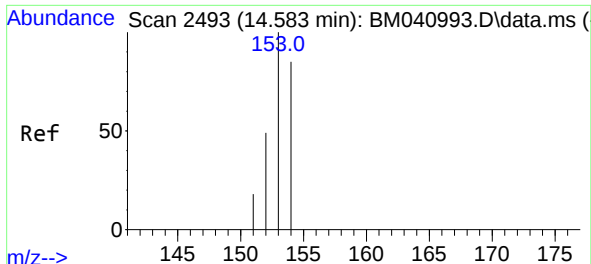
Reviewed By :Yogesh Patel 07/21/2023  
Supervised By :mohammad ahmed 07/21/2023



#10  
Acenaphthylene  
Concen: 0.136 ng/ul  
RT: 14.236 min Scan# 2418  
Delta R.T. -0.014 min  
Lab File: BM041008.D  
Acq: 21 Jul 2023 08:10

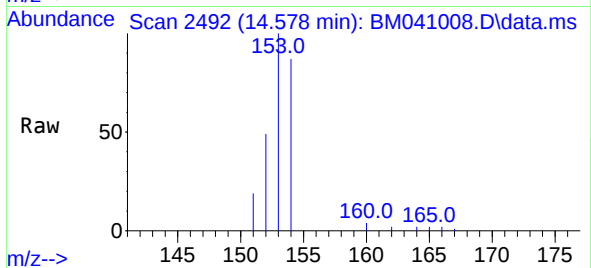
Tgt Ion:152 Resp: 5570  
Ion Ratio Lower Upper  
152 100  
151 25.2 16.8 25.2#  
153 17.5 11.6 17.4#





#11  
Acenaphthene  
Concen: 0.262 ng/ul  
RT: 14.578 min Scan# 2493  
Delta R.T. -0.009 min  
Lab File: BM041008.D  
Acq: 21 Jul 2023 08:10

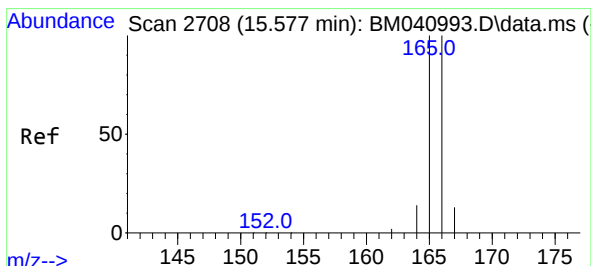
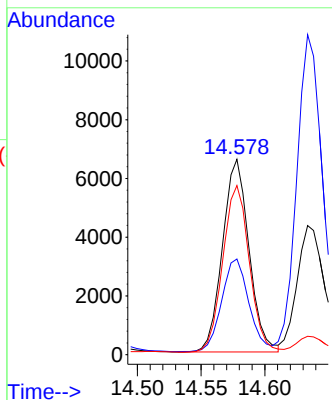
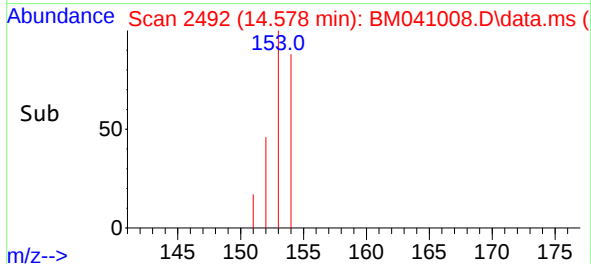
Instrument :  
BNA\_M  
ClientSampleId :  
A46Y3



Tgt Ion:153 Resp: 9490  
Ion Ratio Lower Upper  
153 100  
152 48.9 41.0 61.6  
154 86.5 68.2 102.2

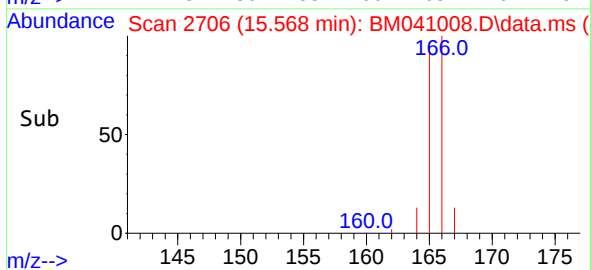
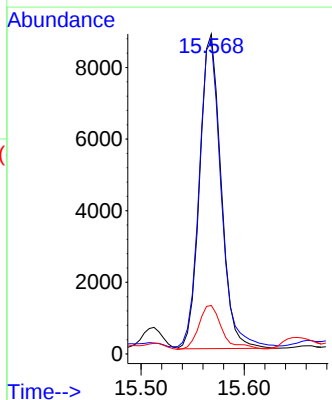
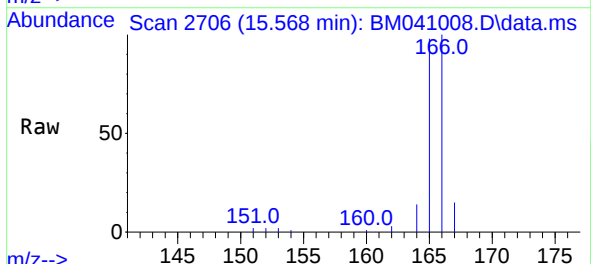
Manual Integrations  
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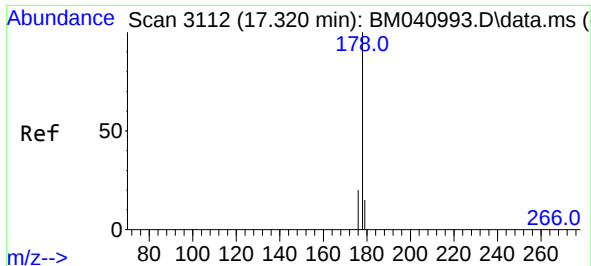
Reviewed By :Yogesh Patel 07/21/2023  
Supervised By :mohammad ahmed 07/21/2023



#12  
Fluorene  
Concen: 0.336 ng/ul  
RT: 15.568 min Scan# 2706  
Delta R.T. -0.014 min  
Lab File: BM041008.D  
Acq: 21 Jul 2023 08:10

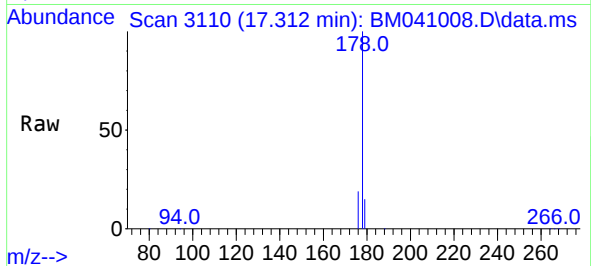
Tgt Ion:166 Resp: 12588  
Ion Ratio Lower Upper  
166 100  
165 97.8 80.3 120.5  
167 15.2 11.7 17.5





#15  
Phenanthrene  
Concen: 3.267 ng/ul  
RT: 17.312 min Scan# 3111  
Delta R.T. -0.013 min  
Lab File: BM041008.D  
Acq: 21 Jul 2023 08:10

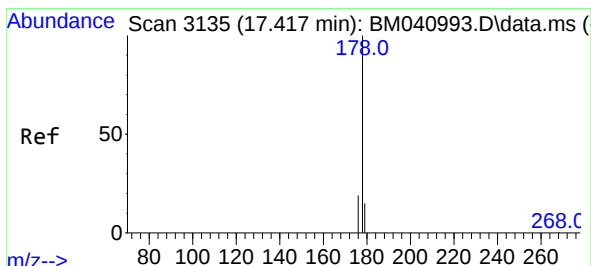
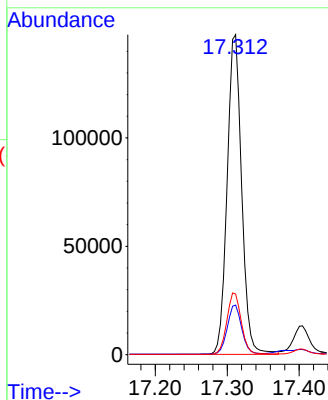
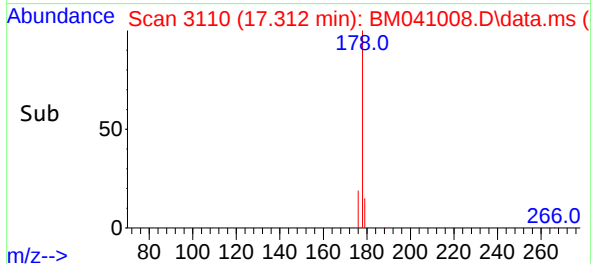
Instrument :  
BNA\_M  
ClientSampleId :  
A46Y3



Tgt Ion:178 Resp: 206119  
Ion Ratio Lower Upper  
178 100  
179 15.5 13.0 19.6  
176 19.0 16.2 24.4

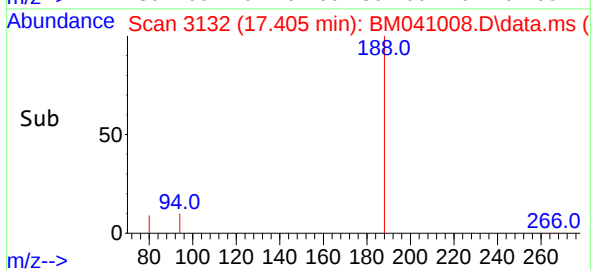
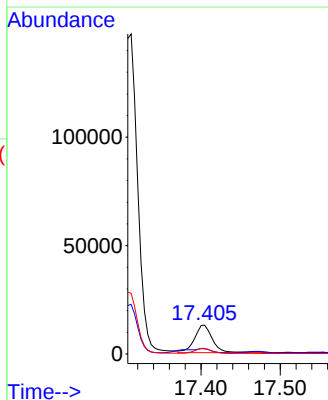
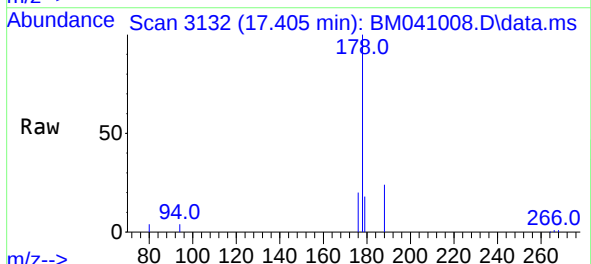
Manual Integrations  
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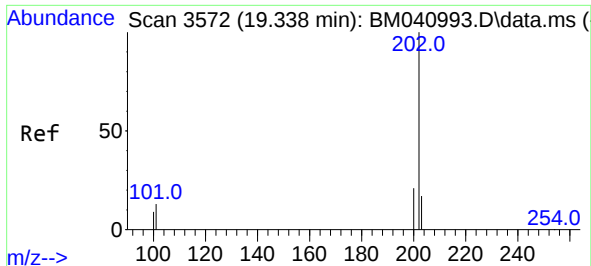
Reviewed By :Yogesh Patel 07/21/2023  
Supervised By :mohammad ahmed 07/21/2023



#16  
Anthracene  
Concen: 0.415 ng/ul  
RT: 17.405 min Scan# 3132  
Delta R.T. -0.017 min  
Lab File: BM041008.D  
Acq: 21 Jul 2023 08:10

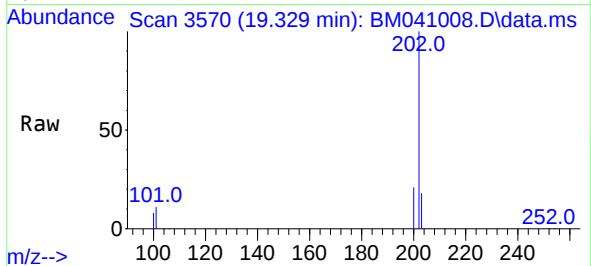
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Ion Ratio Lower Upper  
178 100  
179 17.9 13.7 20.5  
176 19.7 16.4 24.6





#19  
Fluoranthene  
Concen: 4.531 ng/ul  
RT: 19.329 min Scan# 31  
Delta R.T. -0.014 min  
Lab File: BM041008.D  
Acq: 21 Jul 2023 08:10

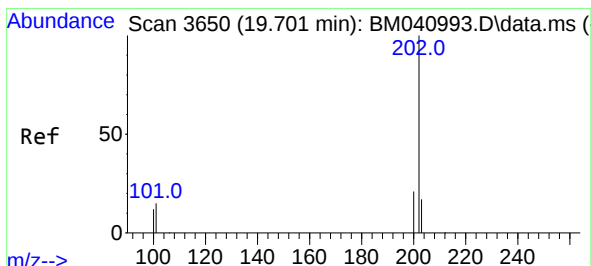
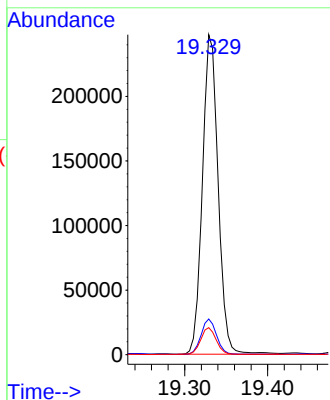
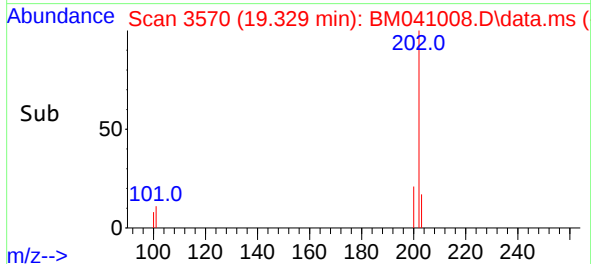
Instrument :  
BNA\_M  
ClientSampleId :  
A46Y3



Tgt Ion:202 Resp: 326200  
Ion Ratio Lower Upper  
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101 11.1 11.0 16.4  
100 8.5 8.3 12.5

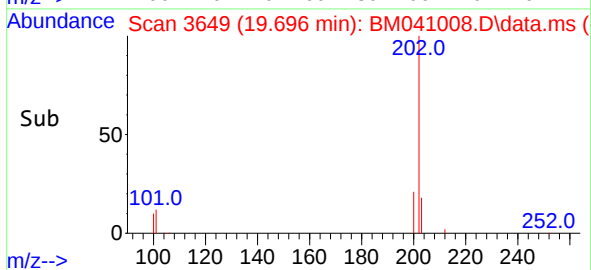
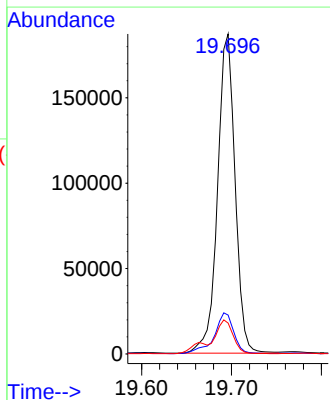
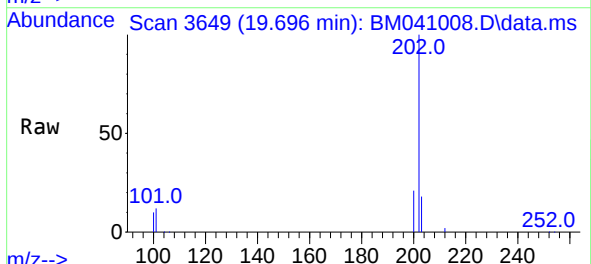
Manual Integrations  
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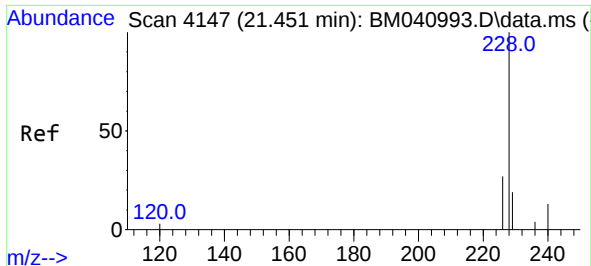
Reviewed By :Yogesh Patel 07/21/2023  
Supervised By :mohammad ahmed 07/21/2023



#20  
Pyrene  
Concen: 3.438 ng/ul  
RT: 19.696 min Scan# 3649  
Delta R.T. -0.009 min  
Lab File: BM041008.D  
Acq: 21 Jul 2023 08:10

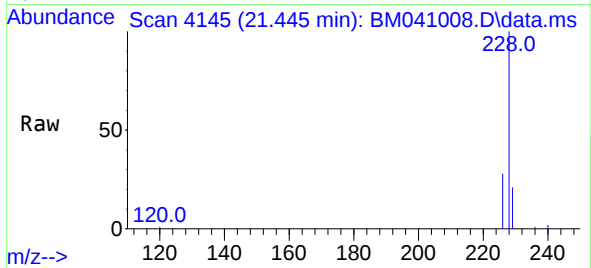
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Ion Ratio Lower Upper  
202 100  
101 12.1 12.5 18.7#  
100 9.7 10.0 15.0#





#21  
Benzo(a)anthracene  
Concen: 2.457 ng/u1  
RT: 21.445 min Scan# 4145  
Delta R.T. -0.012 min  
Lab File: BM041008.D  
Acq: 21 Jul 2023 08:10

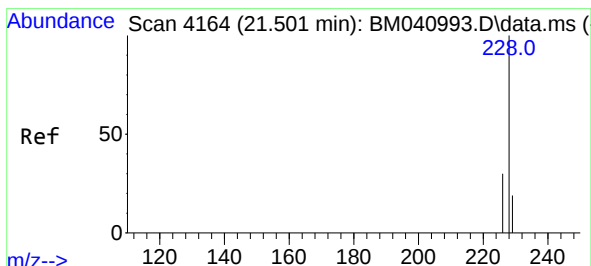
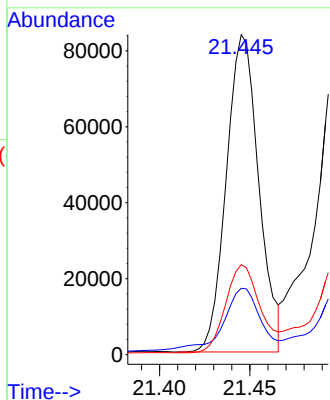
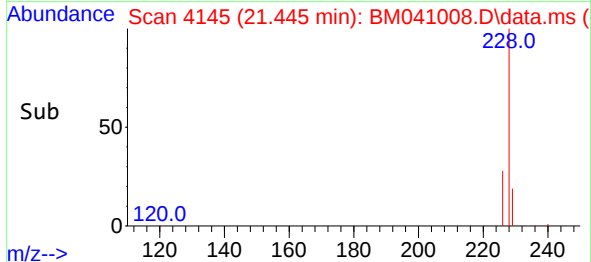
Instrument :  
BNA\_M  
ClientSampleId :  
A46Y3



Tgt Ion:228 Resp: 104370  
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228 100  
229 20.8 16.2 24.4  
226 28.2 22.3 33.5

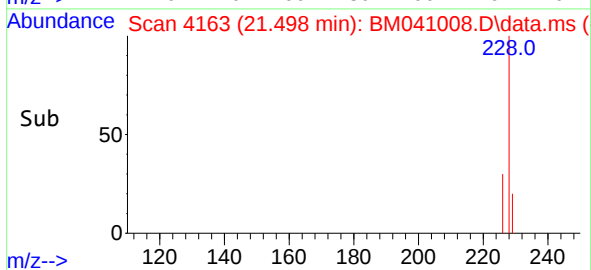
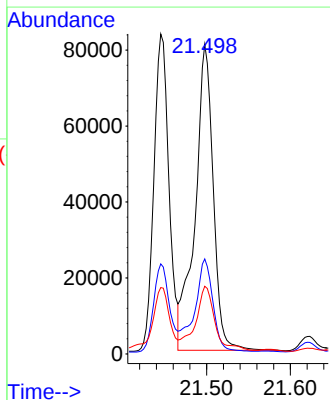
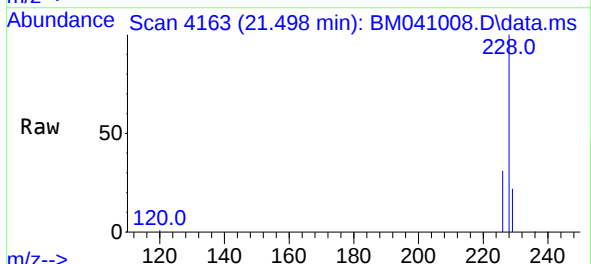
Manual Integrations  
APPROVED

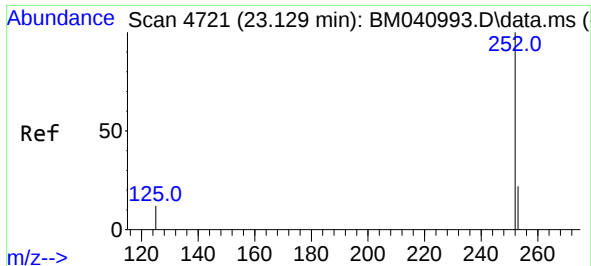
Reviewed By :Yogesh Patel 07/21/2023  
Supervised By :mohammad ahmed 07/21/2023



#22  
Chrysene  
Concen: 2.500 ng/u1  
RT: 21.498 min Scan# 4163  
Delta R.T. -0.009 min  
Lab File: BM041008.D  
Acq: 21 Jul 2023 08:10

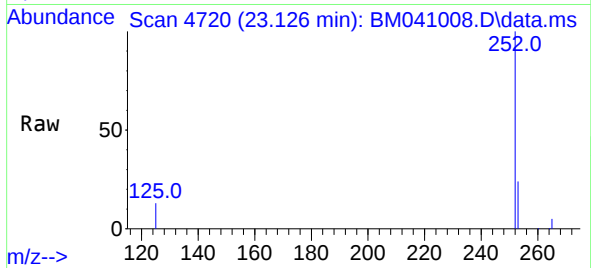
Tgt Ion:228 Resp: 121417  
Ion Ratio Lower Upper  
228 100  
226 30.7 24.6 37.0  
229 21.9 16.1 24.1





#24  
Benzo(b)fluoranthene  
Concen: 2.730 ng/ul  
RT: 23.126 min Scan# 41  
Delta R.T. -0.009 min  
Lab File: BM041008.D  
Acq: 21 Jul 2023 08:10

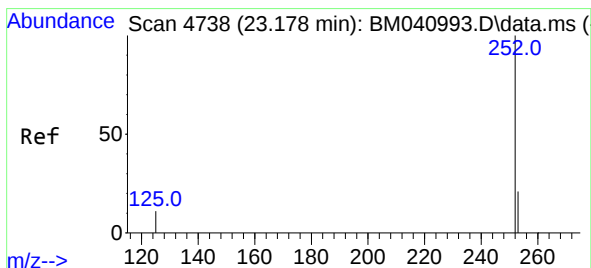
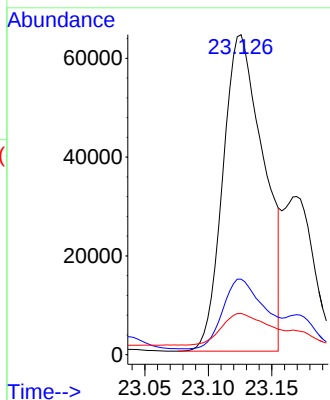
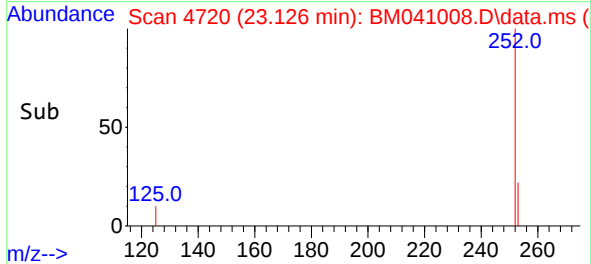
Instrument :  
BNA\_M  
ClientSampleId :  
A46Y3



Tgt Ion:252 Resp: 142989  
Ion Ratio Lower Upper  
252 100  
253 23.6 0.0 57.4  
125 12.9 0.0 45.2

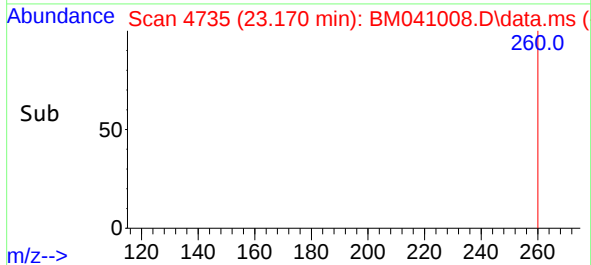
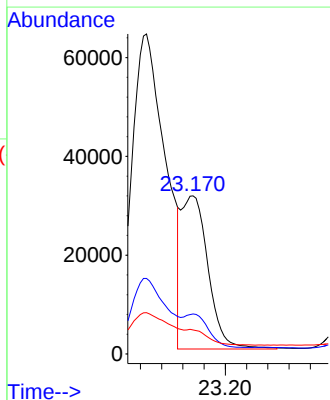
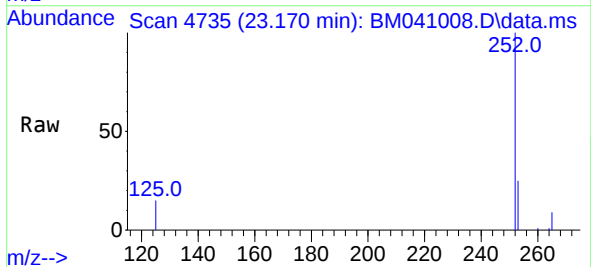
Manual Integrations  
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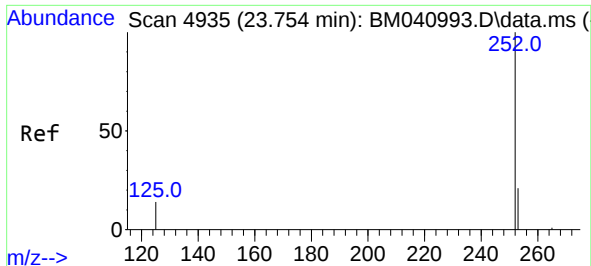
Reviewed By :Yogesh Patel 07/21/2023  
Supervised By :mohammad ahmed 07/21/2023



#25  
Benzo(k)fluoranthene  
Concen: 1.096 ng/ul m  
RT: 23.170 min Scan# 4735  
Delta R.T. -0.018 min  
Lab File: BM041008.D  
Acq: 21 Jul 2023 08:10

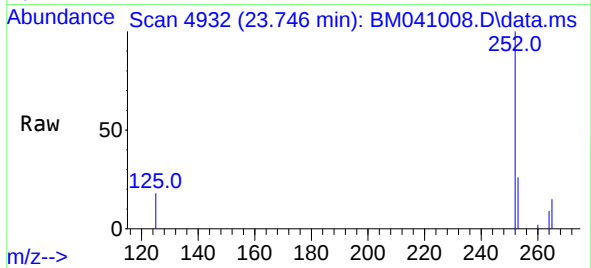
Tgt Ion:252 Resp: 54540  
Ion Ratio Lower Upper  
252 100  
253 25.3 23.3 34.9  
125 15.2 18.2 27.2#





#26  
Benzo(a)pyrene  
Concen: 1.004 ng/ul  
RT: 23.746 min Scan# 4935  
Delta R.T. -0.018 min  
Lab File: BM041008.D  
Acq: 21 Jul 2023 08:10

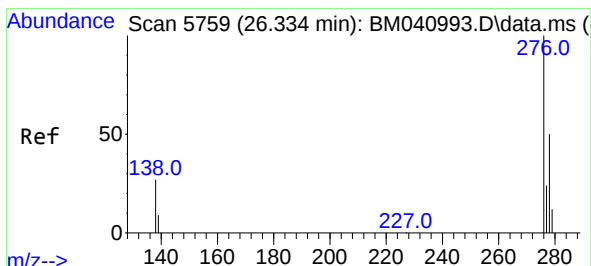
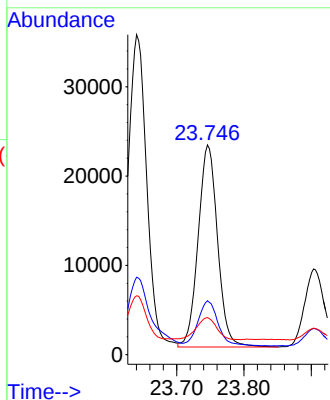
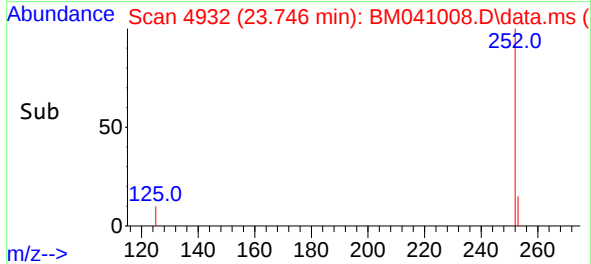
Instrument :  
BNA\_M  
ClientSampleId :  
A46Y3



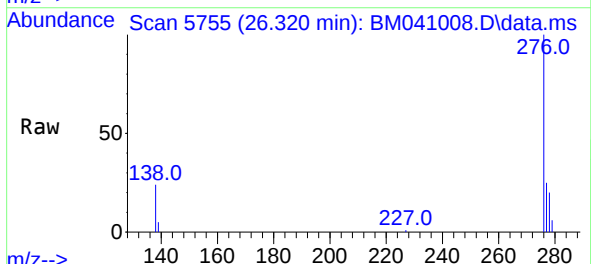
Tgt Ion:252 Resp: 45430  
Ion Ratio Lower Upper  
252 100  
253 25.7 28.2 42.2  
125 17.7 25.2 37.8

Manual Integrations  
APPROVED

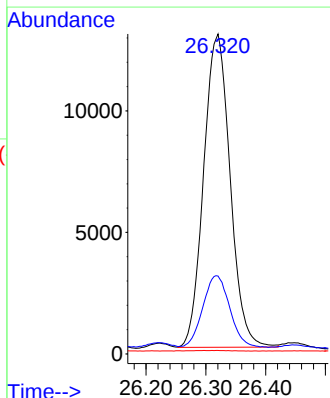
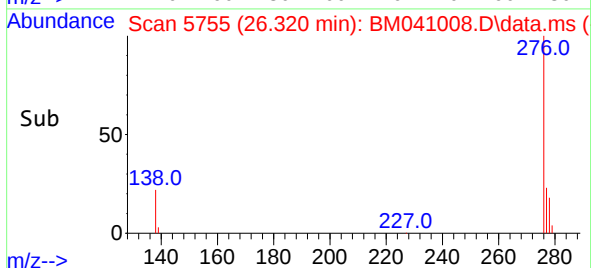
Reviewed By :Yogesh Patel 07/21/2023  
Supervised By :mohammad ahmed 07/21/2023

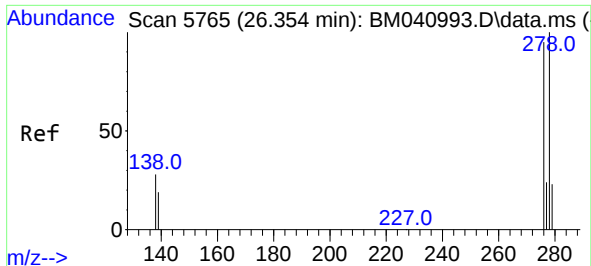


#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.660 ng/ul  
RT: 26.320 min Scan# 5755  
Delta R.T. -0.030 min  
Lab File: BM041008.D  
Acq: 21 Jul 2023 08:10



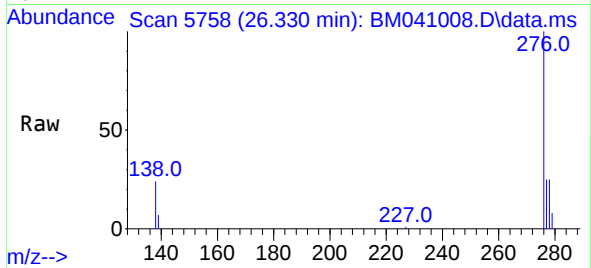
Tgt Ion:276 Resp: 39608  
Ion Ratio Lower Upper  
276 100  
138 23.5 22.3 33.5  
227 0.3 0.0 0.0





#28  
Dibenzo(a,h)anthracene  
Concen: 0.214 ng/ul  
RT: 26.330 min Scan# 5758  
Delta R.T. -0.037 min  
Lab File: BM041008.D  
Acq: 21 Jul 2023 08:10

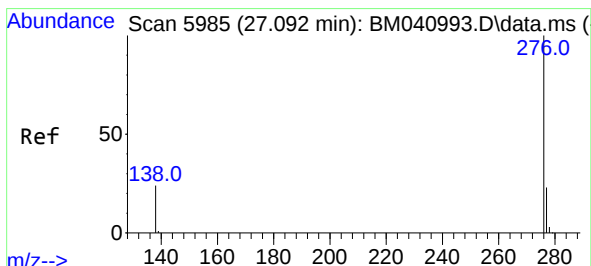
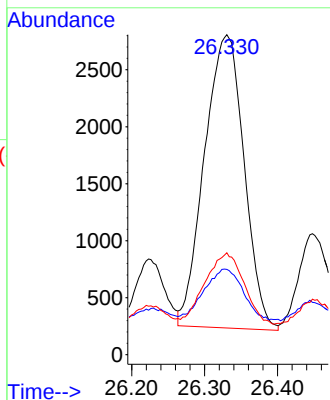
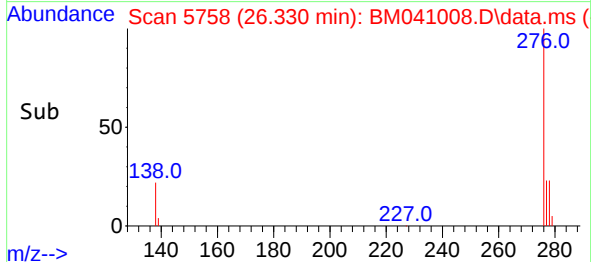
Instrument :  
BNA\_M  
ClientSampleId :  
A46Y3



Tgt Ion:278 Resp: 970  
Ion Ratio Lower Upper  
278 100  
139 26.7 19.2 28.8  
279 31.9 27.0 40.6

Manual Integrations  
APPROVED

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



#29  
Benzo(g,h,i)perylene  
Concen: 0.680 ng/ul  
RT: 27.078 min Scan# 5981  
Delta R.T. -0.023 min  
Lab File: BM041008.D  
Acq: 21 Jul 2023 08:10

Tgt Ion:276 Resp: 37754  
Ion Ratio Lower Upper  
276 100  
138 25.1 22.6 34.0  
277 24.6 21.2 31.8

