

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM072123\  
 Data File : BM041040.D  
 Acq On : 22 Jul 2023 05:21  
 Operator : MA/JU  
 Sample : 03540-02  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4730

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 07/24/2023  
 Supervised By :mohammad ahmed 07/24/2023

Quant Time: Jul 22 05:52:54 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 : Fri Jul 21 18:20:46 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.857  | 152  | 3482     | 0.400 | ng/ul  | -0.01    |
| 4) Naphthalene-d8           | 10.663 | 136  | 12316    | 0.400 | ng/ul  | # 0.00   |
| 9) Acenaphthene-d10         | 14.513 | 164  | 7107     | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.265 | 188  | 16208    | 0.400 | ng/ul  | -0.01    |
| 17) Chrysene-d12            | 21.457 | 240  | 11886    | 0.400 | ng/ul  | -0.01    |
| 23) Perylene-d12            | 23.848 | 264  | 9675     | 0.400 | ng/ul  | #-0.01   |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.275  | 96   | 7907     | 1.381 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.258 | 152  | 4657     | 0.284 | ng/ul  | -0.01    |
| 18) Fluoranthene-d10        | 19.296 | 212  | 10890    | 0.218 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.713 | 128  | 6106     | 0.181 | ng/ul  | 97       |
| 7) 2-Methylnaphthalene      | 12.330 | 142  | 1664     | 0.090 | ng/ul  | 97       |
| 8) 1-Methylnaphthalene      | 12.550 | 142  | 1398     | 0.071 | ng/ul  | 97       |
| 10) Acenaphthylene          | 14.231 | 152  | 1727     | 0.058 | ng/ul# | 81       |
| 11) Acenaphthene            | 14.573 | 153  | 9990     | 0.381 | ng/ul  | 98       |
| 12) Fluorene                | 15.563 | 166  | 8547     | 0.315 | ng/ul  | 100      |
| 15) Phenanthrene            | 17.307 | 178  | 138053   | 2.850 | ng/ul  | 98       |
| 16) Anthracene              | 17.400 | 178  | 17408    | 0.461 | ng/ul  | 98       |
| 19) Fluoranthene            | 19.329 | 202  | 203725   | 3.320 | ng/ul# | 94       |
| 20) Pyrene                  | 19.691 | 202  | 132386   | 2.112 | ng/ul  | 94       |
| 21) Benzo(a)anthracene      | 21.442 | 228  | 72218    | 1.995 | ng/ul  | 99       |
| 22) Chrysene                | 21.495 | 228  | 69307    | 1.674 | ng/ul  | 99       |
| 24) Benzo(b)fluoranthene    | 23.123 | 252  | 76315    | 2.055 | ng/ul  | 86       |
| 25) Benzo(k)fluoranthene    | 23.167 | 252  | 29675m   | 0.841 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.740 | 252  | 25297    | 0.789 | ng/ul# | 81       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.314 | 276  | 24184    | 0.568 | ng/ul# | 85       |
| 28) Dibenzo(a,h)anthracene  | 26.324 | 278  | 7746     | 0.241 | ng/ul  | 97       |
| 29) Benzo(g,h,i)perylene    | 27.078 | 276  | 1891     | 0.048 | ng/ul# | 68       |
| -----                       |        |      |          |       |        |          |

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

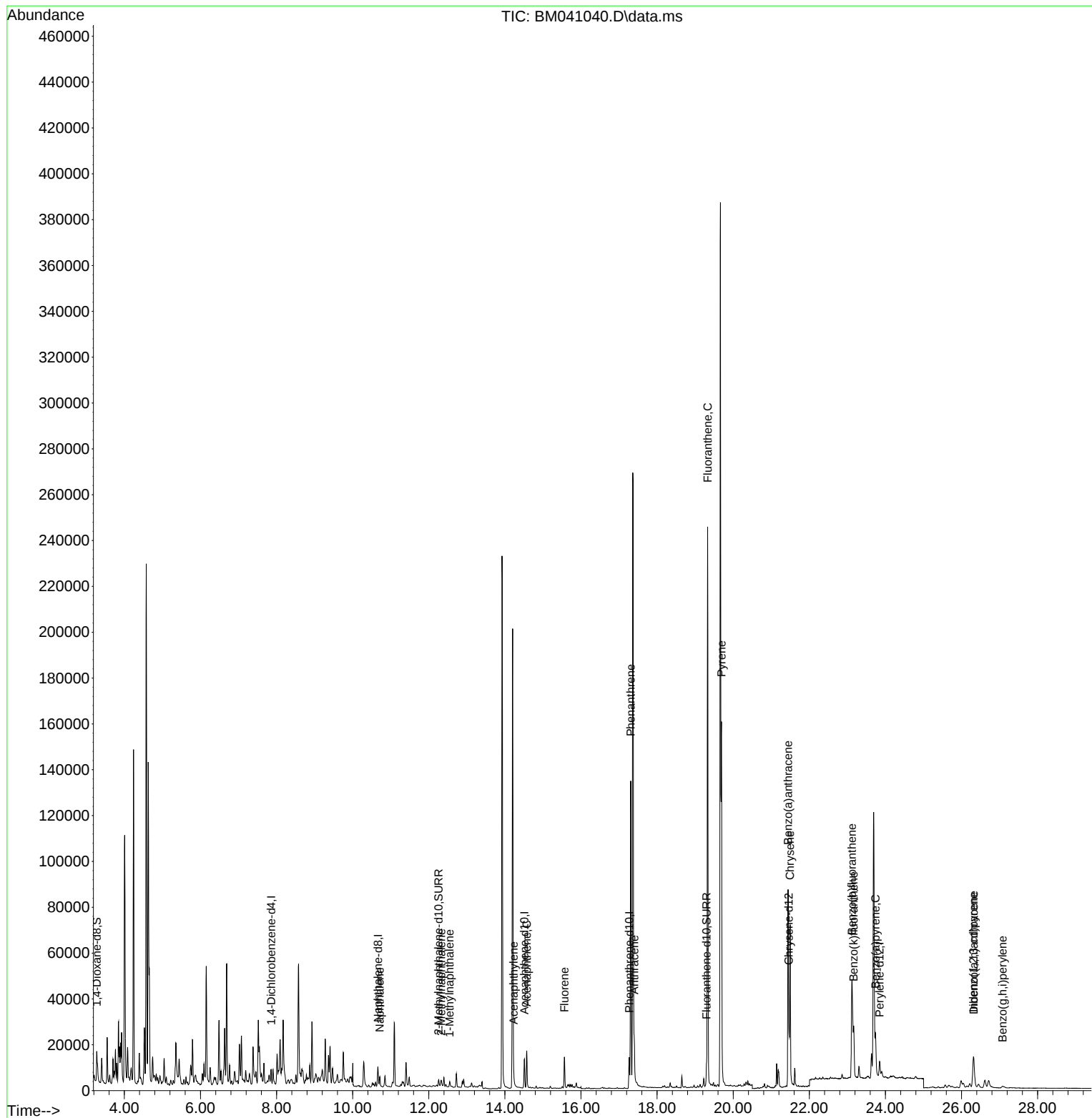
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM072123\  
Data File : BM041040.D  
Acq On : 22 Jul 2023 05:21  
Operator : MA/JU  
Sample : 03540-02  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

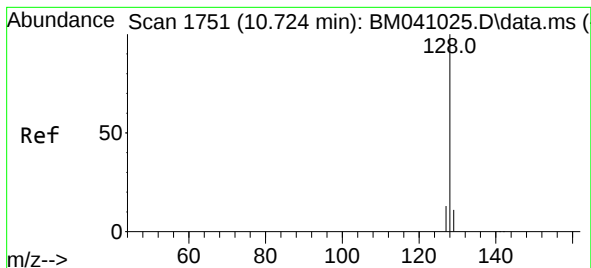
Instrument :  
BNA\_M  
ClientSampleId :  
A4730

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Quant Time: Jul 22 05:52:54 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 : Fri Jul 21 18:20:46 2023  
Response via : Initial Calibration





#5

Naphthalene

Concen: 0.181 ng/ul

RT: 10.713 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM041040.D

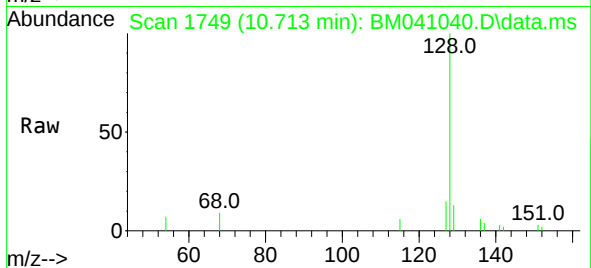
Acq: 22 Jul 2023 05:21

Instrument :

BNA\_M

ClientSampleId :

A4730



Tgt Ion:128 Resp: 6100

Ion Ratio Lower Upper

128 100

129 13.4 9.8 14.8

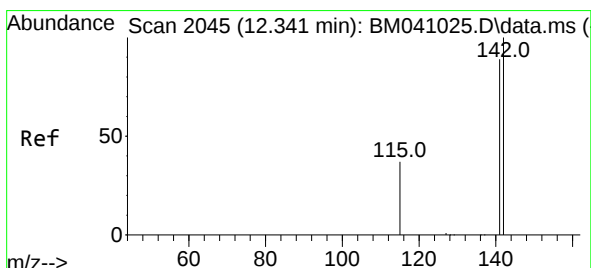
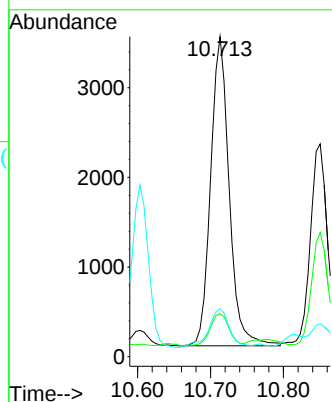
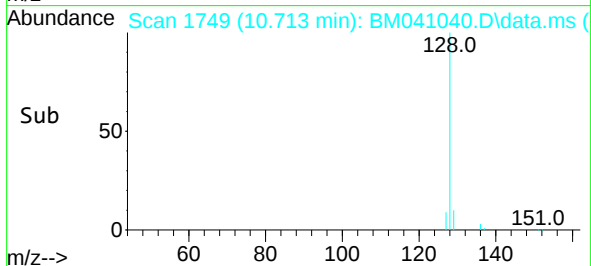
127 15.0 11.0 16.4

Manual Integrations

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Supervised By :mohammad ahmed 07/24/2023



#7

2-Methylnaphthalene

Concen: 0.090 ng/ul

RT: 12.330 min Scan# 2043

Delta R.T. -0.011 min

Lab File: BM041040.D

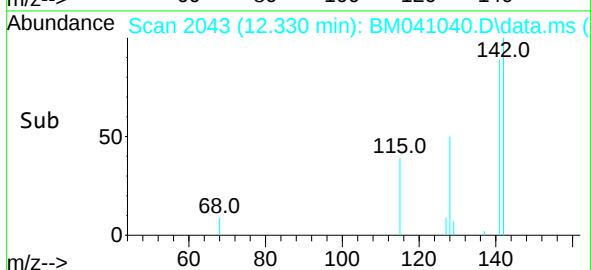
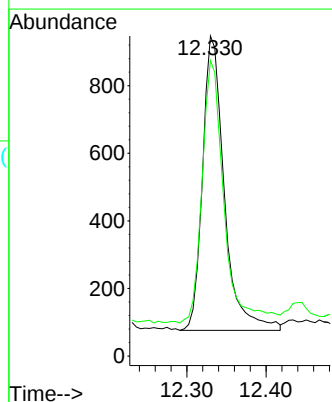
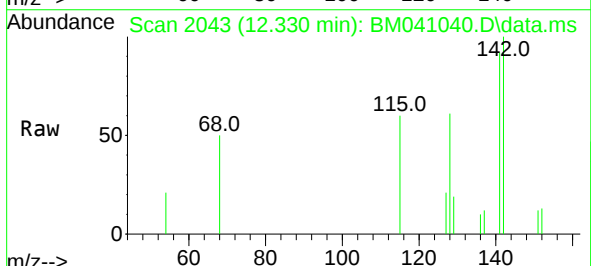
Acq: 22 Jul 2023 05:21

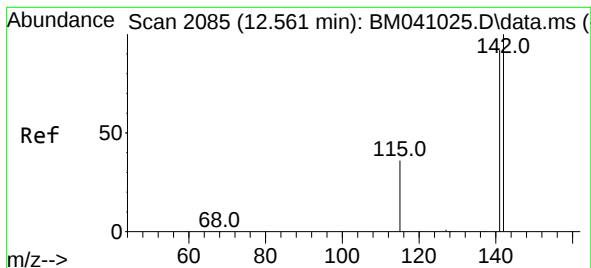
Tgt Ion:142 Resp: 1664

Ion Ratio Lower Upper

142 100

141 88.6 73.2 109.8





#8

1-Methylnaphthalene

Concen: 0.071 ng/ul

RT: 12.550 min Scan# 2083

Delta R.T. -0.011 min

Lab File: BM041040.D

Acq: 22 Jul 2023 05:21

Instrument :

BNA\_M

ClientSampleId :

A4730

Tgt Ion:142 Resp: 1398

Ion Ratio Lower Upper

142 100

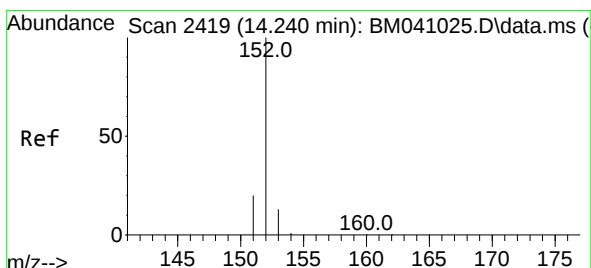
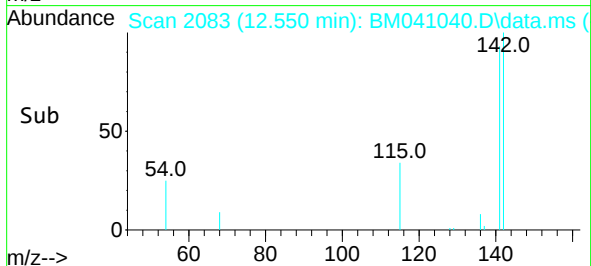
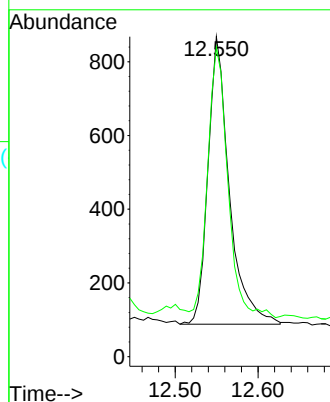
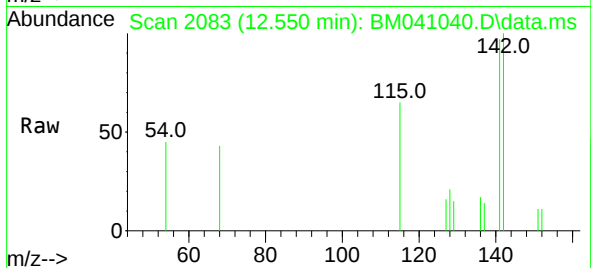
141 88.8 73.4 110.2

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Supervised By :mohammad ahmed 07/24/2023



#10

Acenaphthylene

Concen: 0.058 ng/ul

RT: 14.231 min Scan# 2417

Delta R.T. -0.009 min

Lab File: BM041040.D

Acq: 22 Jul 2023 05:21

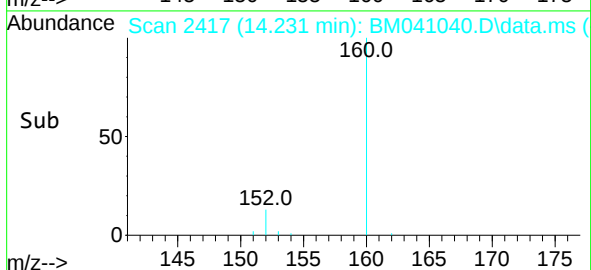
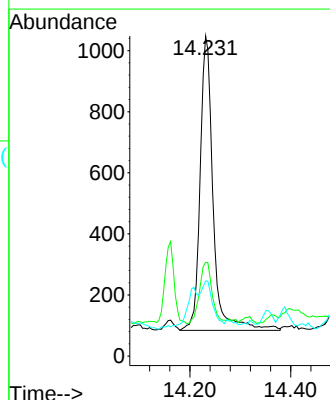
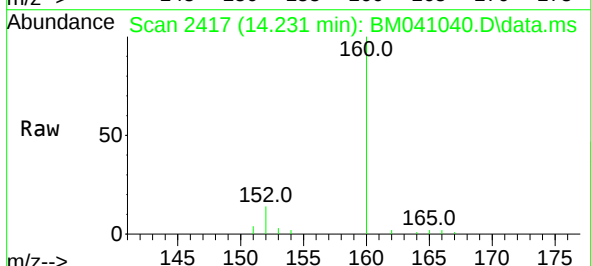
Tgt Ion:152 Resp: 1727

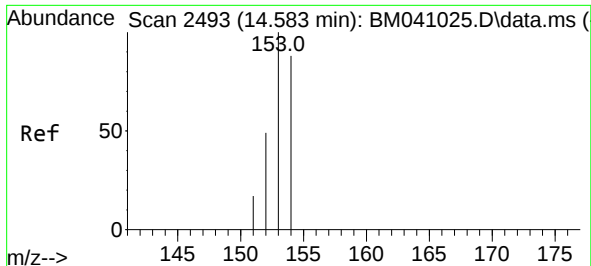
Ion Ratio Lower Upper

152 100

151 29.3 16.8 25.2#

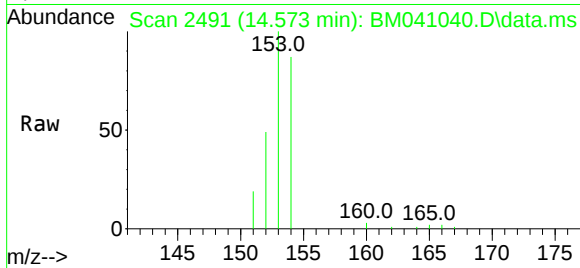
153 23.5 11.6 17.4#





#11  
Acenaphthene  
Concen: 0.381 ng/ul  
RT: 14.573 min Scan# 2493  
Delta R.T. -0.009 min  
Lab File: BM041040.D  
Acq: 22 Jul 2023 05:21

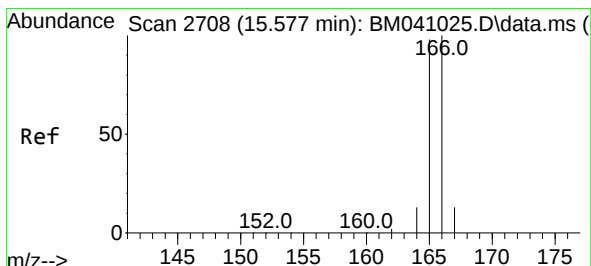
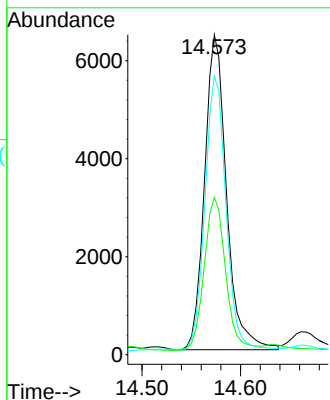
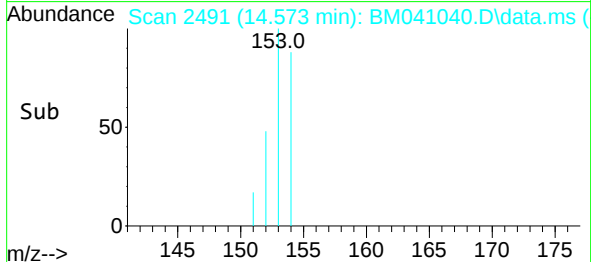
Instrument :  
BNA\_M  
ClientSampleId :  
A4730



Tgt Ion:153 Resp: 9990  
Ion Ratio Lower Upper  
153 100  
152 49.2 41.0 61.6  
154 87.0 68.2 102.2

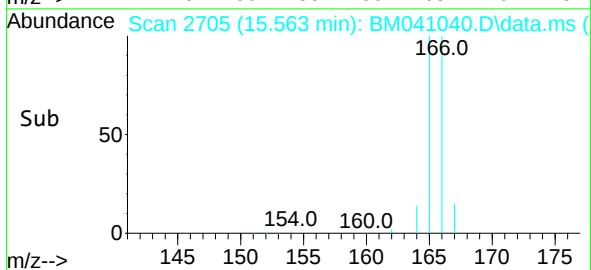
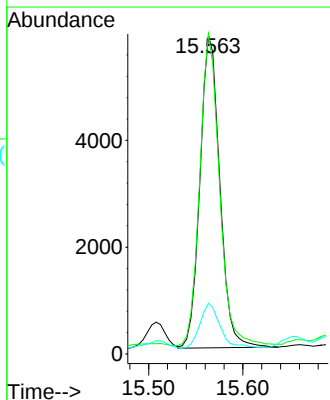
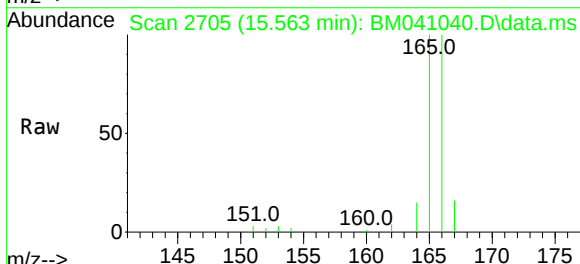
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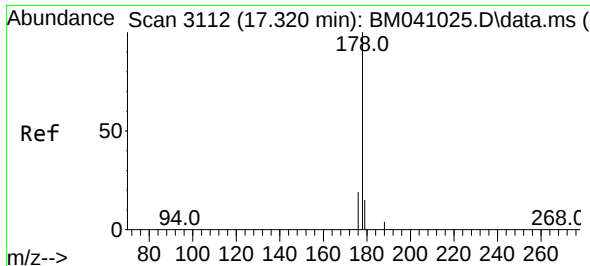
Reviewed By :Yogesh Patel 07/24/2023  
Supervised By :mohammad ahmed 07/24/2023



#12  
Fluorene  
Concen: 0.315 ng/ul  
RT: 15.563 min Scan# 2705  
Delta R.T. -0.009 min  
Lab File: BM041040.D  
Acq: 22 Jul 2023 05:21

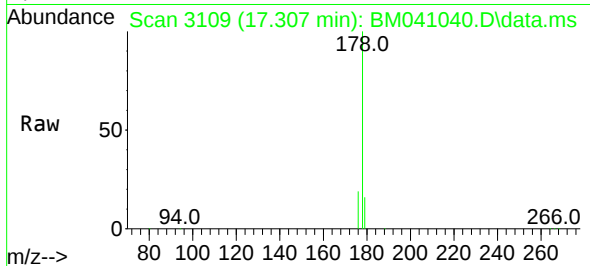
Tgt Ion:166 Resp: 8547  
Ion Ratio Lower Upper  
166 100  
165 100.3 80.3 120.5  
167 15.8 11.7 17.5





#15  
Phenanthrene  
Concen: 2.850 ng/u1  
RT: 17.307 min Scan# 3112  
Delta R.T. -0.009 min  
Lab File: BM041040.D  
Acq: 22 Jul 2023 05:21

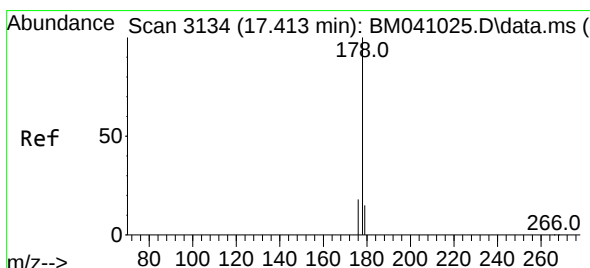
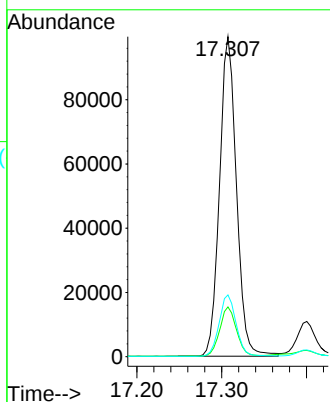
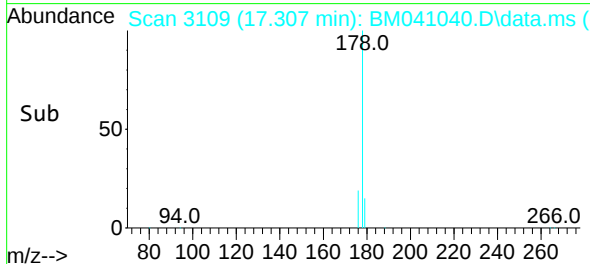
Instrument :  
BNA\_M  
ClientSampleId :  
A4730



Tgt Ion:178 Resp: 13805  
Ion Ratio Lower Upper  
178 100  
179 15.5 13.0 19.6  
176 19.3 16.2 24.4

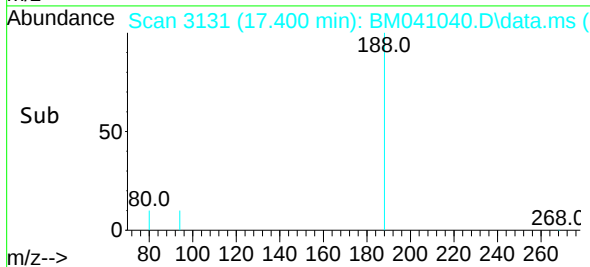
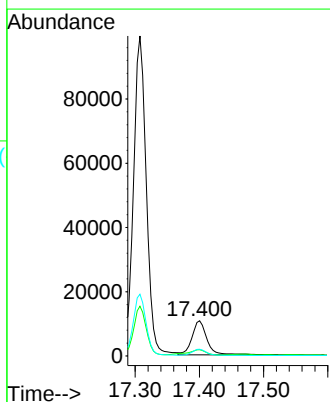
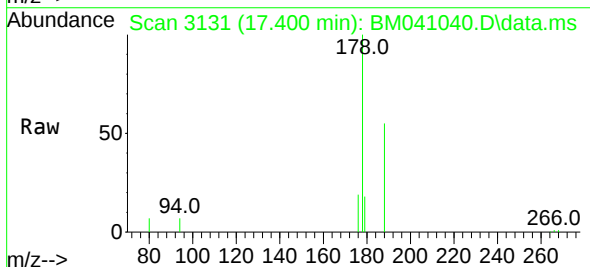
Manual Integrations  
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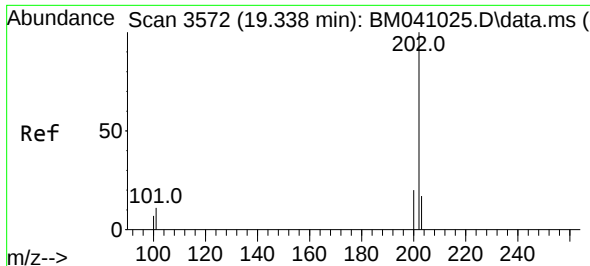
Reviewed By :Yogesh Patel 07/24/2023  
Supervised By :mohammad ahmed 07/24/2023



#16  
Anthracene  
Concen: 0.461 ng/u1  
RT: 17.400 min Scan# 3131  
Delta R.T. -0.013 min  
Lab File: BM041040.D  
Acq: 22 Jul 2023 05:21

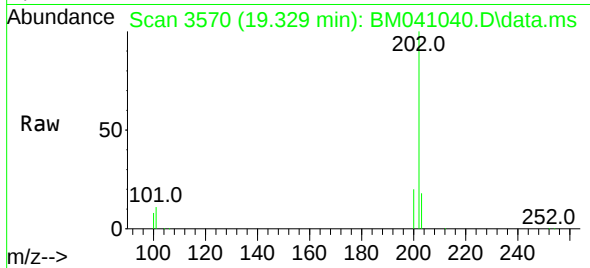
Tgt Ion:178 Resp: 17408  
Ion Ratio Lower Upper  
178 100  
179 17.9 13.7 20.5  
176 19.3 16.4 24.6





#19  
Fluoranthene  
Concen: 3.320 ng/u1  
RT: 19.329 min Scan# 3570  
Delta R.T. -0.010 min  
Lab File: BM041040.D  
Acq: 22 Jul 2023 05:21

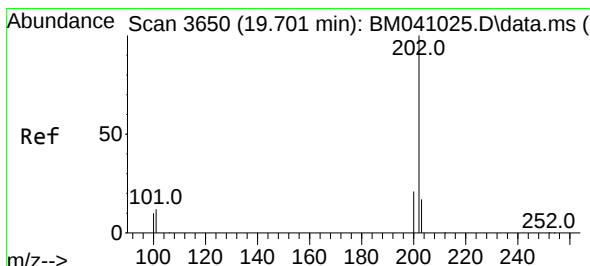
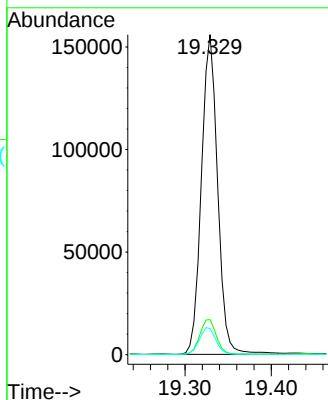
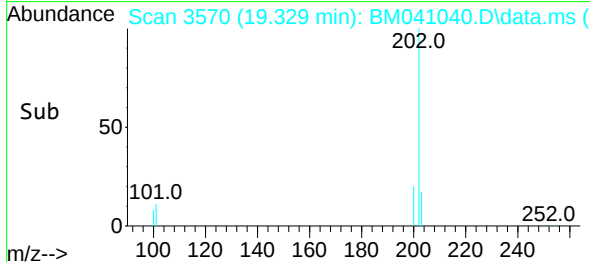
Instrument :  
BNA\_M  
ClientSampleId :  
A4730



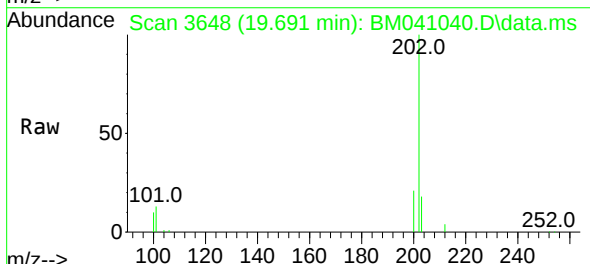
Tgt Ion:202 Resp: 203725  
Ion Ratio Lower Upper  
202 100  
101 11.0 11.0 16.4  
100 8.2 8.3 12.5

Manual Integrations  
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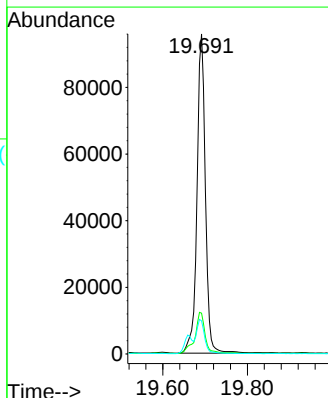
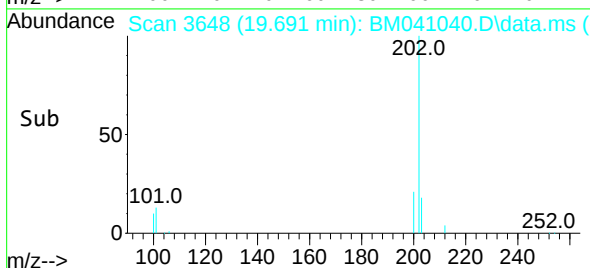
Reviewed By :Yogesh Patel 07/24/2023  
Supervised By :mohammad ahmed 07/24/2023

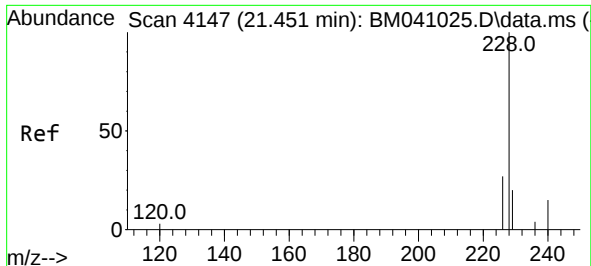


#20  
Pyrene  
Concen: 2.112 ng/u1  
RT: 19.691 min Scan# 3648  
Delta R.T. -0.009 min  
Lab File: BM041040.D  
Acq: 22 Jul 2023 05:21



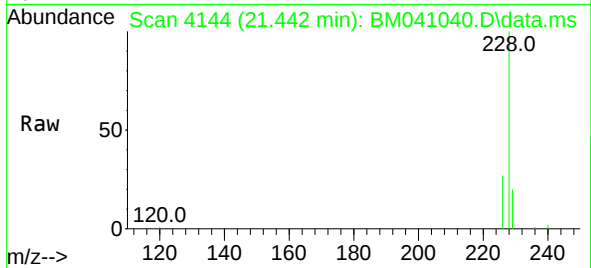
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Ion Ratio Lower Upper  
202 100  
101 12.8 12.5 18.7  
100 10.3 10.0 15.0





#21  
Benzo(a)anthracene  
Concen: 1.995 ng/ul  
RT: 21.442 min Scan# 4144  
Delta R.T. -0.009 min  
Lab File: BM041040.D  
Acq: 22 Jul 2023 05:21

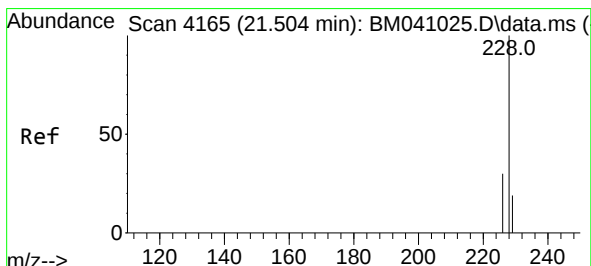
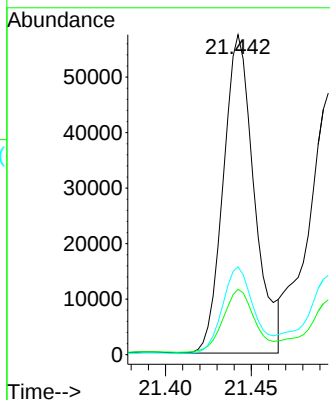
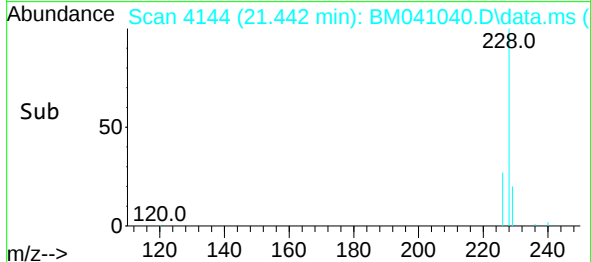
Instrument :  
BNA\_M  
ClientSampleId :  
A4730



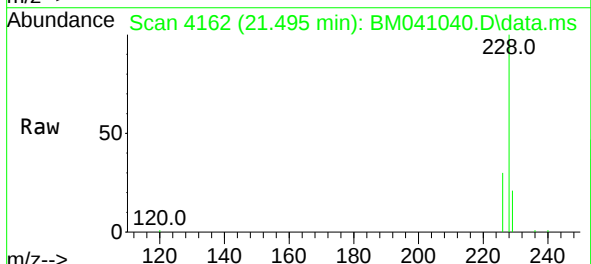
Tgt Ion:228 Resp: 72218  
Ion Ratio Lower Upper  
228 100  
229 20.4 16.2 24.4  
226 27.4 22.3 33.5

Manual Integrations  
APPROVED

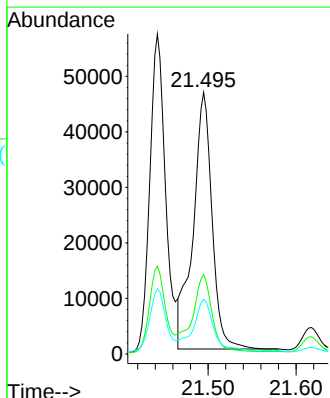
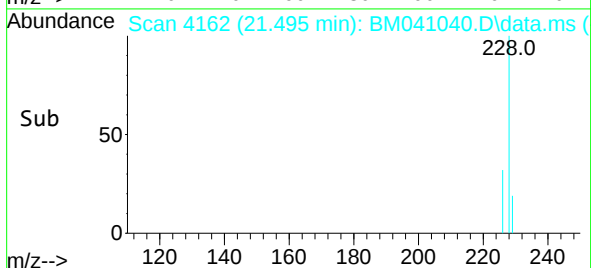
Reviewed By :Yogesh Patel 07/24/2023  
Supervised By :mohammad ahmed 07/24/2023

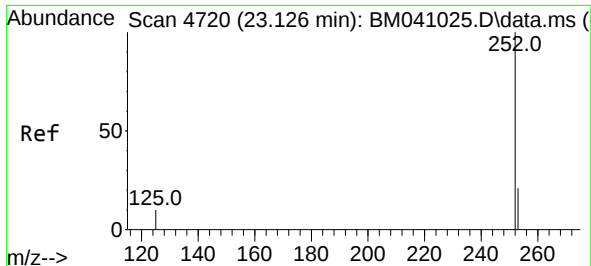


#22  
Chrysene  
Concen: 1.674 ng/ul  
RT: 21.495 min Scan# 4162  
Delta R.T. -0.009 min  
Lab File: BM041040.D  
Acq: 22 Jul 2023 05:21



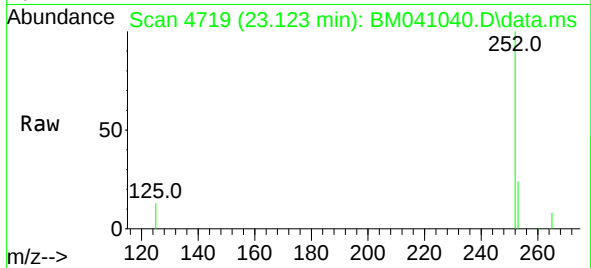
Tgt Ion:228 Resp: 69307  
Ion Ratio Lower Upper  
228 100  
226 30.3 24.6 37.0  
229 21.0 16.1 24.1





#24  
Benzo(b)fluoranthene  
Concen: 2.055 ng/ul  
RT: 23.123 min Scan# 4719  
Delta R.T. -0.006 min  
Lab File: BM041040.D  
Acq: 22 Jul 2023 05:21

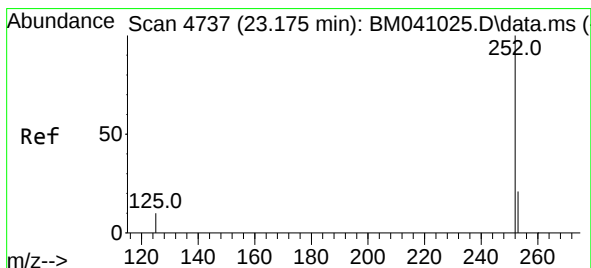
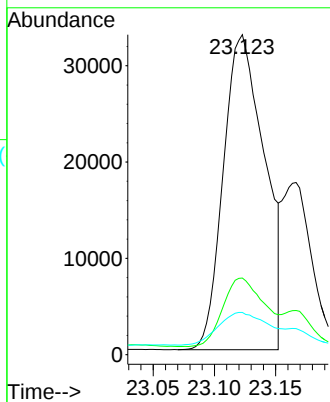
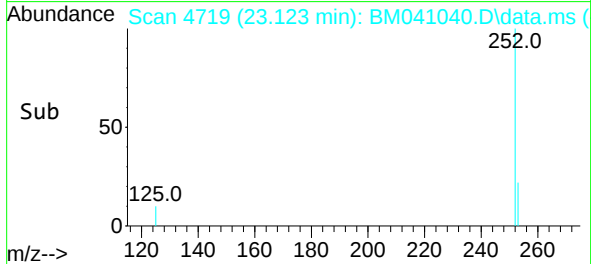
Instrument :  
BNA\_M  
ClientSampleId :  
A4730



Tgt Ion:252 Resp: 7631  
Ion Ratio Lower Upper  
252 100  
253 24.0 0.0 57.4  
125 13.2 0.0 45.2

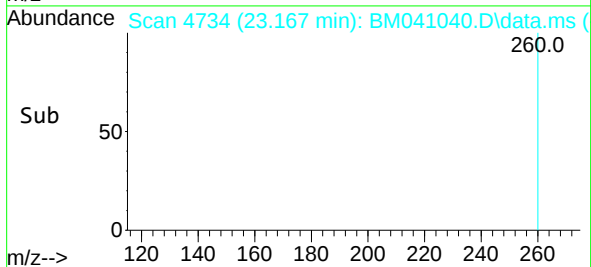
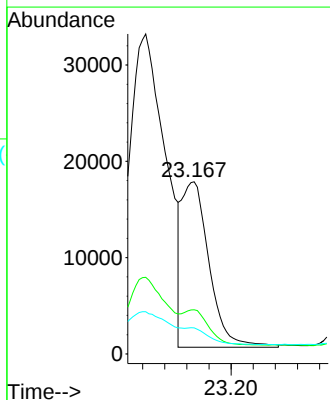
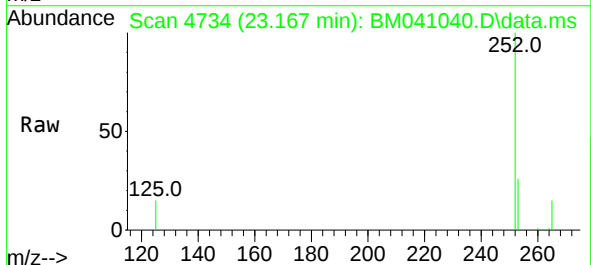
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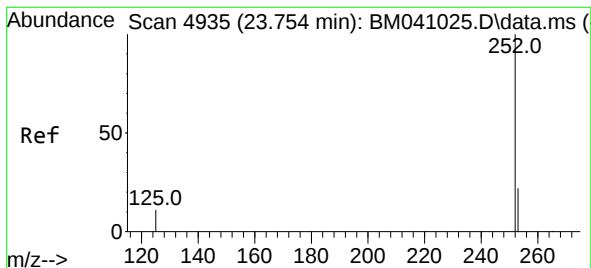
Reviewed By :Yogesh Patel 07/24/2023  
Supervised By :mohammad ahmed 07/24/2023



#25  
Benzo(k)fluoranthene  
Concen: 0.841 ng/ul m  
RT: 23.167 min Scan# 4734  
Delta R.T. -0.012 min  
Lab File: BM041040.D  
Acq: 22 Jul 2023 05:21

Tgt Ion:252 Resp: 29675  
Ion Ratio Lower Upper  
252 100  
253 25.6 23.3 34.9  
125 15.1 18.2 27.2#





#26

Benzo(a)pyrene

Concen: 0.789 ng/ul

RT: 23.740 min Scan# 4935

Delta R.T. -0.018 min

Lab File: BM041040.D

Acq: 22 Jul 2023 05:21

Instrument :

BNM

ClientSampleId :

A4730

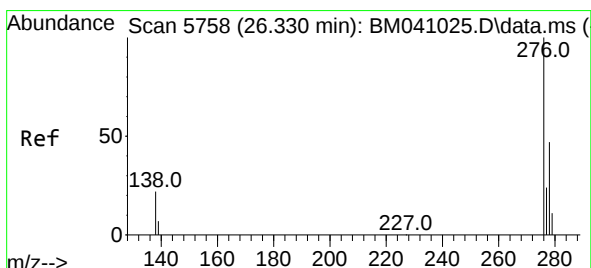
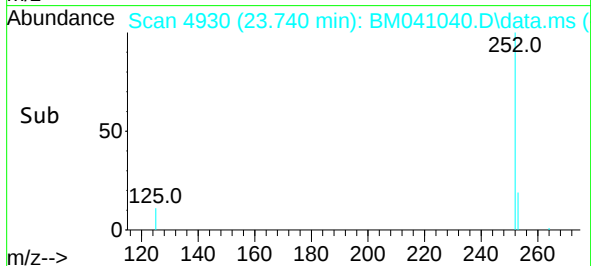
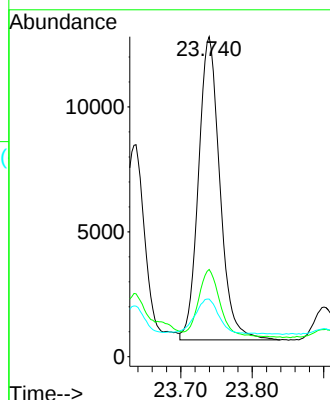
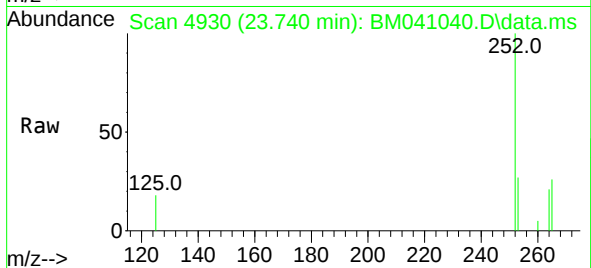
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 2529 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 27.2  | 28.2  | 42.2 |
| 125       | 18.0  | 25.2  | 37.8 |

Manual Integrations

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Reviewed By :Yogesh Patel 07/24/2023

Supervised By :mohammad ahmed 07/24/2023



#27

Indeno(1,2,3-cd)pyrene

Concen: 0.568 ng/ul

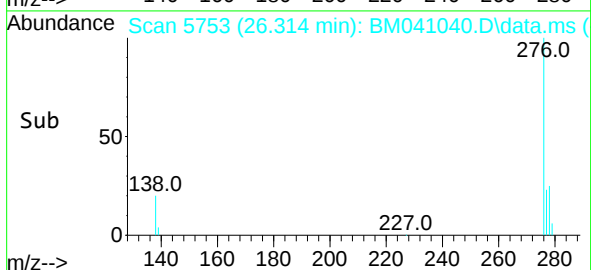
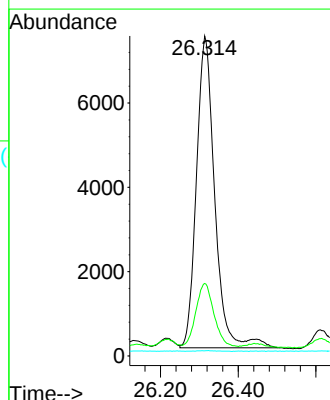
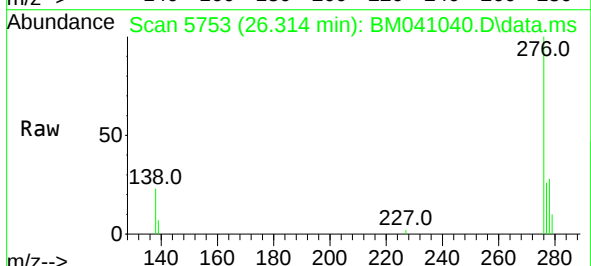
RT: 26.314 min Scan# 5753

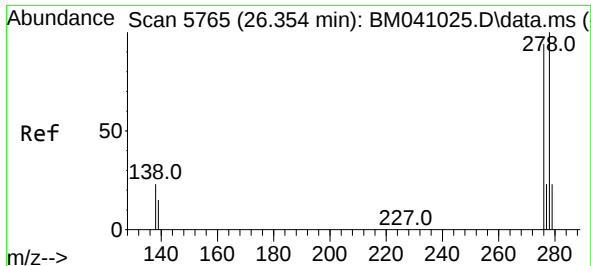
Delta R.T. -0.024 min

Lab File: BM041040.D

Acq: 22 Jul 2023 05:21

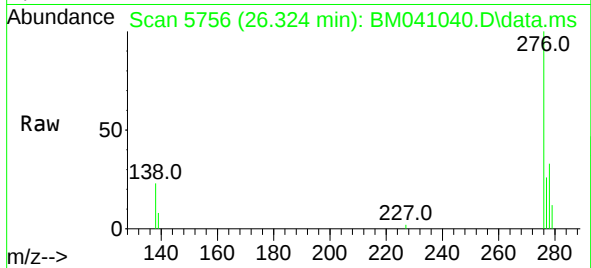
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 24184 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 19.9  | 22.3  | 33.5  |
| 227       | 0.1   | 0.0   | 0.0   |





#28  
Dibenzo(a,h)anthracene  
Concen: 0.241 ng/ul  
RT: 26.324 min Scan# 5765  
Delta R.T. -0.030 min  
Lab File: BM041040.D  
Acq: 22 Jul 2023 05:21

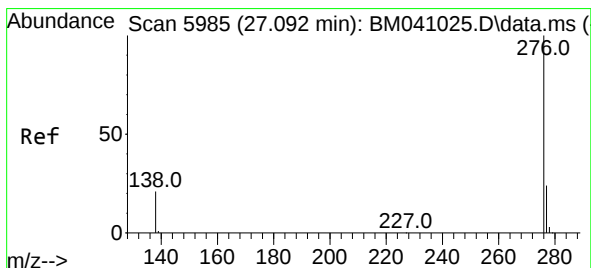
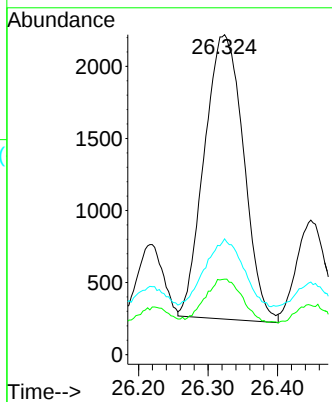
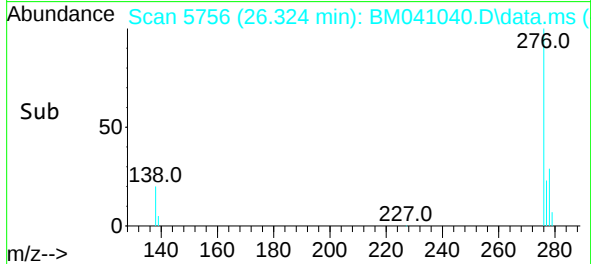
Instrument :  
BNA\_M  
ClientSampleId :  
A4730



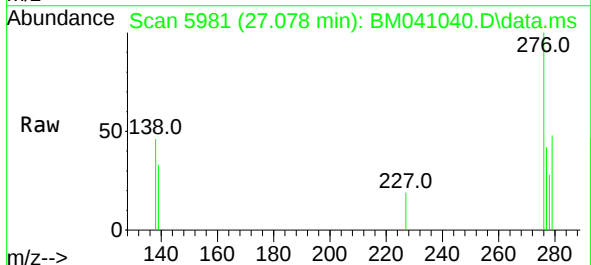
Tgt Ion:278 Resp: 7740  
Ion Ratio Lower Upper  
278 100  
139 23.6 19.2 28.8  
279 36.2 27.0 40.6

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 07/24/2023  
Supervised By :mohammad ahmed 07/24/2023



#29  
Benzo(g,h,i)perylene  
Concen: 0.048 ng/ul  
RT: 27.078 min Scan# 5981  
Delta R.T. -0.014 min  
Lab File: BM041040.D  
Acq: 22 Jul 2023 05:21



Tgt Ion:276 Resp: 1891  
Ion Ratio Lower Upper  
276 100  
138 46.0 22.6 34.0#  
277 42.4 21.2 31.8#

