

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM113023\  
 Data File : BM043092.D  
 Acq On : 30 Nov 2023 19:28  
 Operator : MA/JU  
 Sample : 05497-05  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AC2

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 12/01/2023  
 Supervised By :mohammad ahmed 12/04/2023

Quant Time: Dec 01 00:44:12 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM112423.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 01 00:42:42 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.800  | 152  | 977      | 0.400 | ng/ul  | #-0.06   |
| 4) Naphthalene-d8           | 10.600 | 136  | 2819     | 0.400 | ng/ul  | #-0.03   |
| 9) Acenaphthene-d10         | 14.450 | 164  | 1898m    | 0.400 | ng/ul  | -0.01    |
| 13) Phenanthrene-d10        | 17.203 | 188  | 3531m    | 0.400 | ng/ul  | -0.03    |
| 17) Chrysene-d12            | 21.397 | 240  | 2411m    | 0.400 | ng/ul  | -0.01    |
| 23) Perylene-d12            | 23.744 | 264  | 3203m    | 0.400 | ng/ul  | -0.02    |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.160  | 96   | 4219     | 2.814 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.200 | 152  | 1404     | 0.372 | ng/ul  | -0.03    |
| 18) Fluoranthene-d10        | 19.233 | 212  | 3367     | 0.383 | ng/ul  | -0.02    |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.649 | 128  | 6783     | 0.885 | ng/ul# | 86       |
| 7) 2-Methylnaphthalene      | 12.271 | 142  | 7116     | 1.575 | ng/ul  | 96       |
| 8) 1-Methylnaphthalene      | 12.486 | 142  | 8637     | 1.714 | ng/ul  | 98       |
| 11) Acenaphthene            | 14.524 | 153  | 547      | 0.075 | ng/ul# | 54       |
| 12) Fluorene                | 15.500 | 166  | 660      | 0.088 | ng/ul# | 86       |
| 15) Phenanthrene            | 17.241 | 178  | 36760    | 3.648 | ng/ul  | 93       |
| 19) Fluoranthene            | 19.266 | 202  | 4814     | 0.352 | ng/ul  | 97       |
| 20) Pyrene                  | 19.628 | 202  | 4904m    | 0.337 | ng/ul  |          |
| 21) Benzo(a)anthracene      | 21.380 | 228  | 1795m    | 0.229 | ng/ul  |          |
| 22) Chrysene                | 21.432 | 228  | 8498m    | 0.583 | ng/ul  |          |
| 24) Benzo(b)fluoranthene    | 23.022 | 252  | 3258     | 0.301 | ng/ul  | 91       |
| 25) Benzo(k)fluoranthene    | 23.060 | 252  | 811m     | 0.054 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.633 | 252  | 1243     | 0.105 | ng/ul# | 79       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.195 | 276  | 936      | 0.059 | ng/ul# | 100      |
| 29) Benzo(g,h,i)perylene    | 26.963 | 276  | 1831     | 0.118 | ng/ul# | 89       |
| -----                       |        |      |          |       |        |          |

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

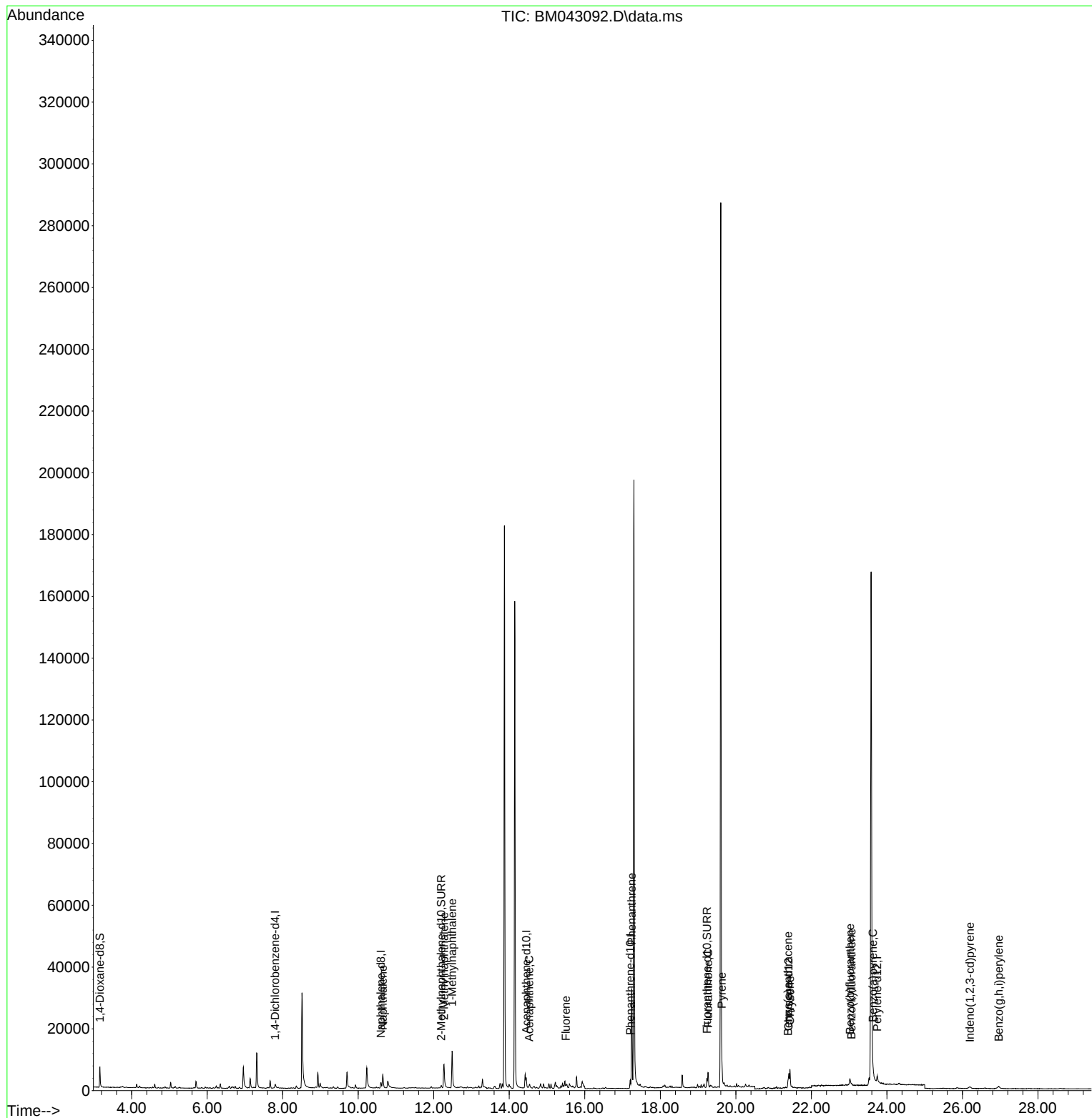
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM113023\  
Data File : BM043092.D  
Acq On : 30 Nov 2023 19:28  
Operator : MA/JU  
Sample : 05497-05  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

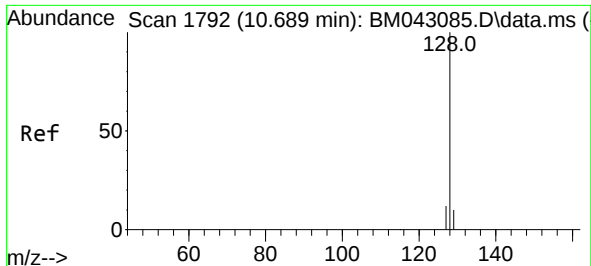
Instrument :  
BNA\_M  
ClientSampleId :  
C0AC2

Manual Integrations  
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Reviewed By :Yogesh Patel 12/01/2023  
Supervised By :mohammad ahmed 12/04/2023

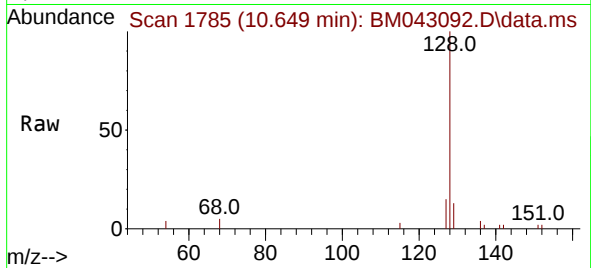
Quant Time: Dec 01 00:44:12 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM112423.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Dec 01 00:42:42 2023  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.885 ng/ul  
RT: 10.649 min Scan# 1785  
Delta R.T. -0.040 min  
Lab File: BM043092.D  
Acq: 30 Nov 2023 19:28

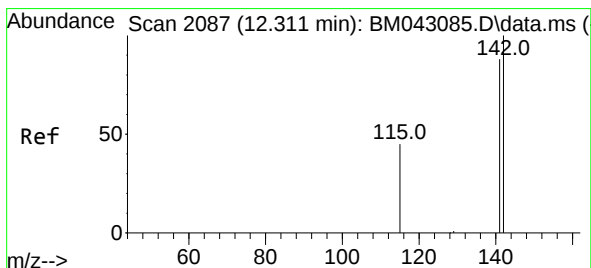
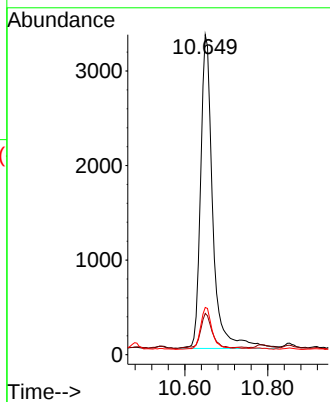
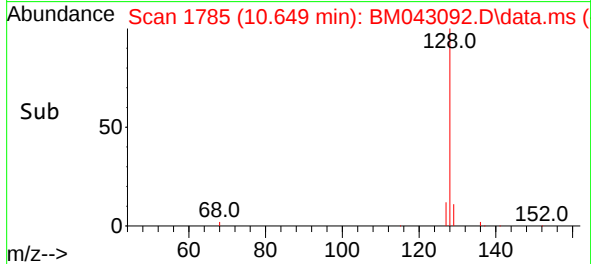
Instrument :  
BNA\_M  
ClientSampleId :  
C0AC2



Tgt Ion:128 Resp: 6783  
Ion Ratio Lower Upper  
128 100  
129 12.9 16.0 24.0  
127 14.7 16.5 24.7

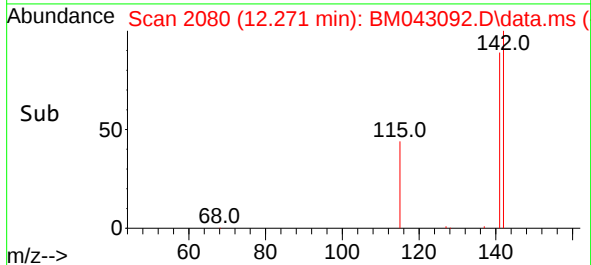
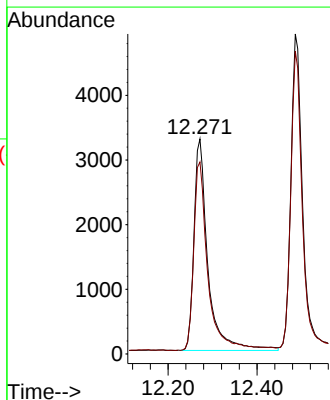
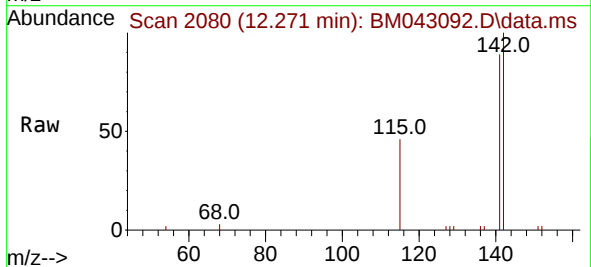
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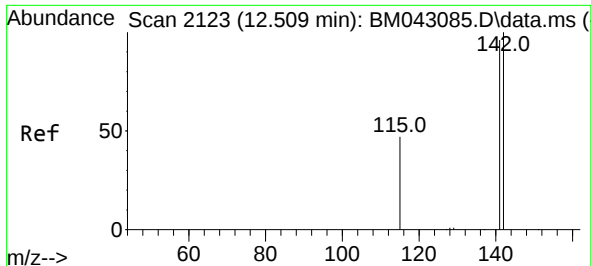
Reviewed By :Yogesh Patel 12/01/2023  
Supervised By :mohammad ahmed 12/04/2023



#7  
2-Methylnaphthalene  
Concen: 1.575 ng/ul  
RT: 12.271 min Scan# 2080  
Delta R.T. -0.040 min  
Lab File: BM043092.D  
Acq: 30 Nov 2023 19:28

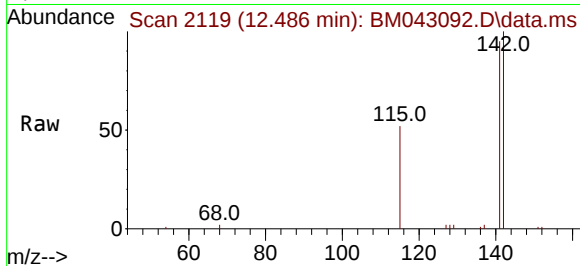
Tgt Ion:142 Resp: 7116  
Ion Ratio Lower Upper  
142 100  
141 91.2 76.1 114.1





#8  
1-Methylnaphthalene  
Concen: 1.714 ng/ul  
RT: 12.486 min Scan# 2123  
Delta R.T. -0.023 min  
Lab File: BM043092.D  
Acq: 30 Nov 2023 19:28

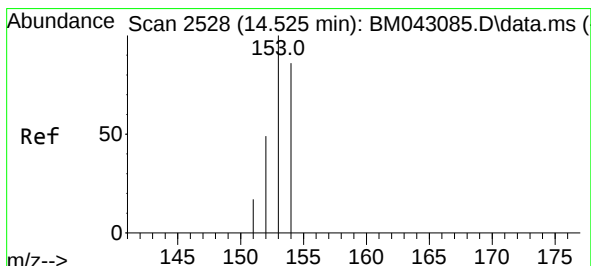
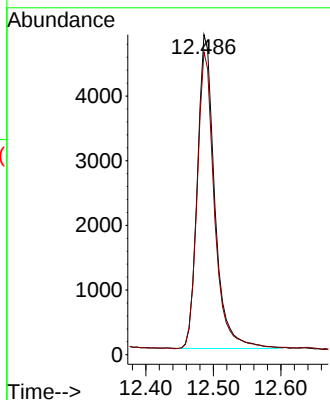
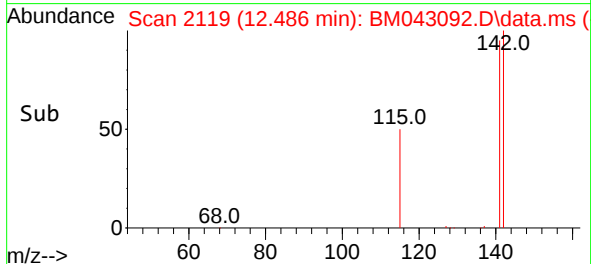
Instrument :  
BNA\_M  
ClientSampleId :  
C0AC2



Tgt Ion:142 Resp: 863  
Ion Ratio Lower Upper  
142 100  
141 94.4 73.8 110.8

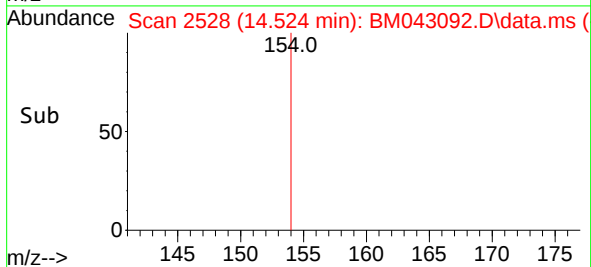
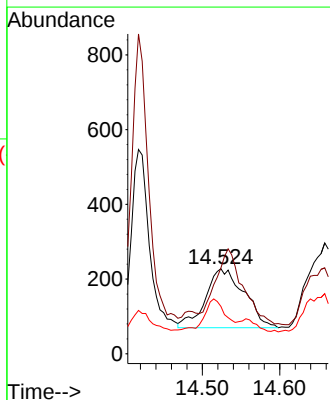
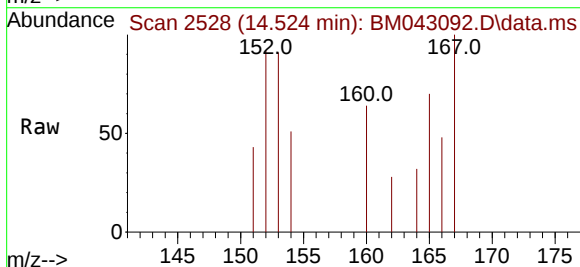
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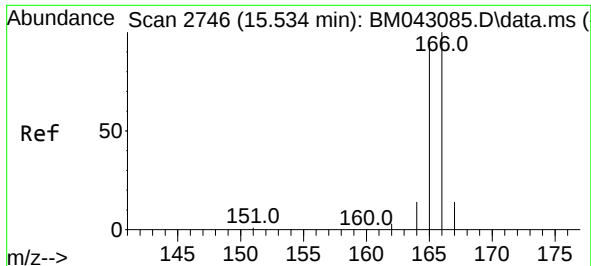
Reviewed By :Yogesh Patel 12/01/2023  
Supervised By :mohammad ahmed 12/04/2023



#11  
Acenaphthene  
Concen: 0.075 ng/ul  
RT: 14.524 min Scan# 2528  
Delta R.T. -0.001 min  
Lab File: BM043092.D  
Acq: 30 Nov 2023 19:28

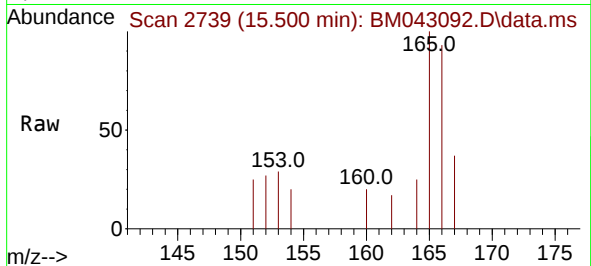
Tgt Ion:153 Resp: 547  
Ion Ratio Lower Upper  
153 100  
152 100.9 43.9 65.9#  
154 55.7 70.6 105.8#





#12  
Fluorene  
Concen: 0.088 ng/u1  
RT: 15.500 min Scan# 21  
Delta R.T. -0.034 min  
Lab File: BM043092.D  
Acq: 30 Nov 2023 19:28

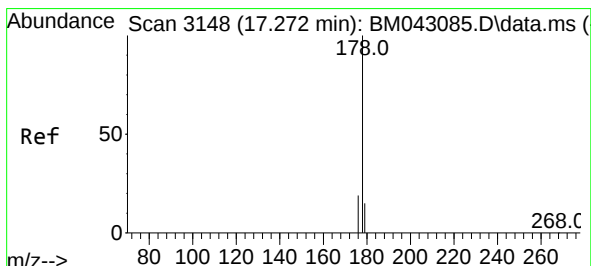
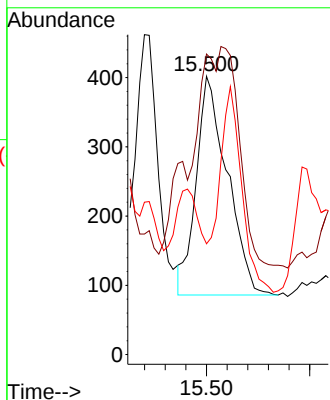
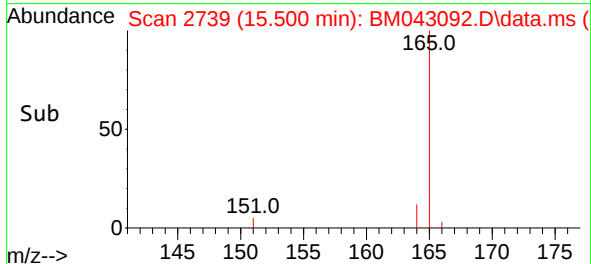
Instrument :  
BNA\_M  
ClientSampleId :  
C0AC2



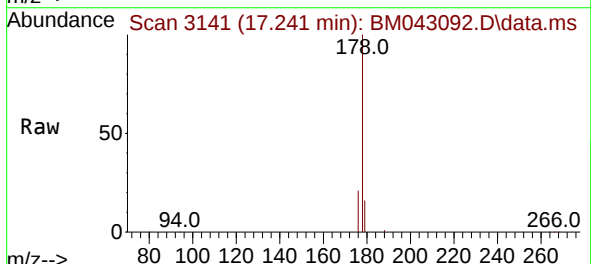
Tgt Ion:166 Resp: 660  
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165 108.0 79.9 119.9  
167 39.8 14.2 21.4

Manual Integrations  
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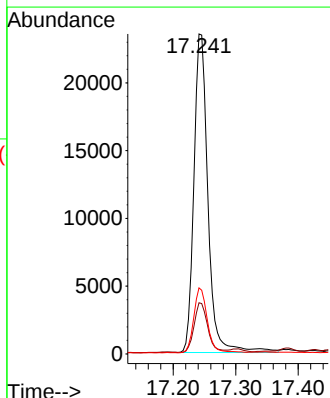
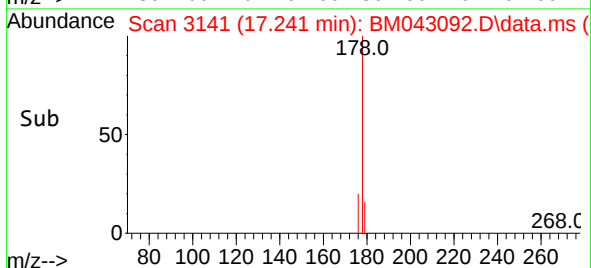
Reviewed By :Yogesh Patel 12/01/2023  
Supervised By :mohammad ahmed 12/04/2023

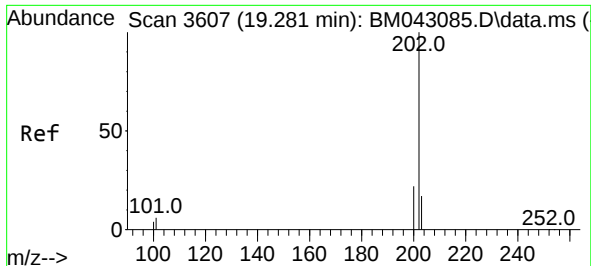


#15  
Phenanthrene  
Concen: 3.648 ng/u1  
RT: 17.241 min Scan# 3141  
Delta R.T. -0.031 min  
Lab File: BM043092.D  
Acq: 30 Nov 2023 19:28



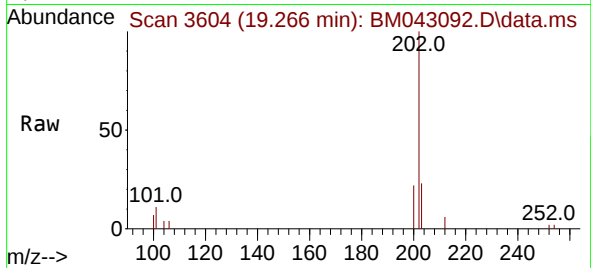
Tgt Ion:178 Resp: 36760  
Ion Ratio Lower Upper  
178 100  
179 16.0 15.7 23.5  
176 20.6 18.9 28.3





#19  
Fluoranthene  
Concen: 0.352 ng/ul  
RT: 19.266 min Scan# 3604  
Delta R.T. -0.015 min  
Lab File: BM043092.D  
Acq: 30 Nov 2023 19:28

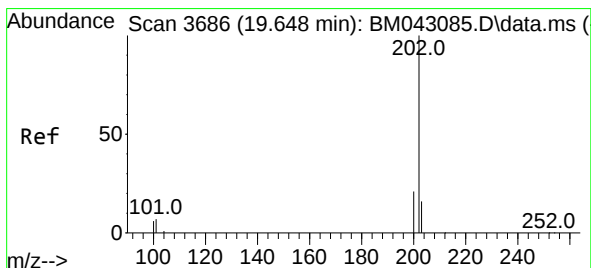
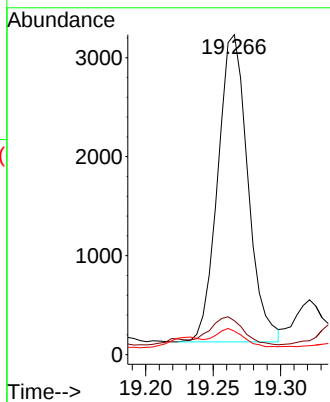
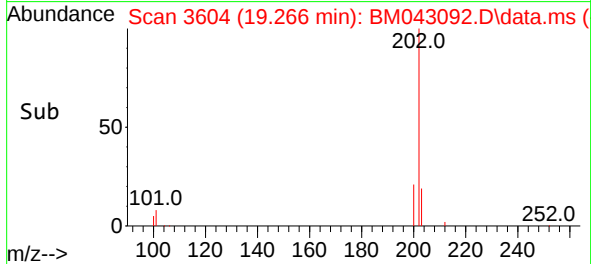
Instrument :  
BNA\_M  
ClientSampleId :  
C0AC2



Tgt Ion:202 Resp: 4814  
Ion Ratio Lower Upper  
202 100  
101 10.6 7.8 11.8  
100 7.3 7.1 10.7

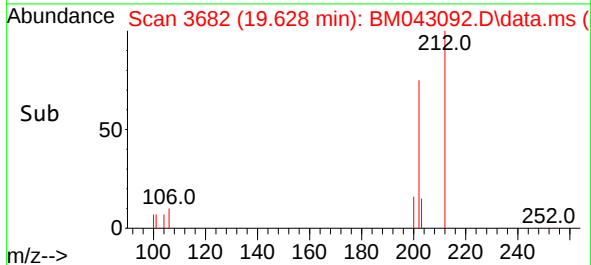
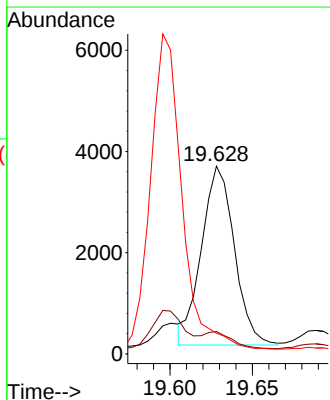
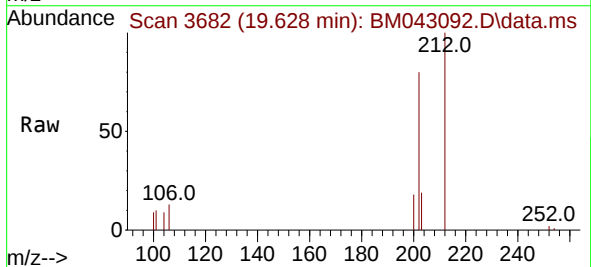
Manual Integrations  
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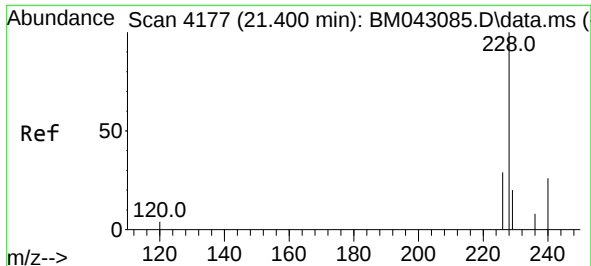
Reviewed By :Yogesh Patel 12/01/2023  
Supervised By :mohammad ahmed 12/04/2023



#20  
Pyrene  
Concen: 0.337 ng/ul m  
RT: 19.628 min Scan# 3682  
Delta R.T. -0.020 min  
Lab File: BM043092.D  
Acq: 30 Nov 2023 19:28

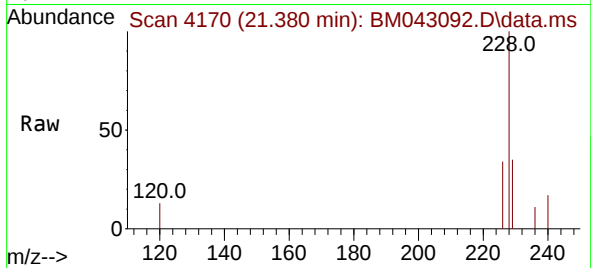
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Ion Ratio Lower Upper  
202 100  
101 12.0 8.7 13.1  
100 11.1 7.8 11.8





#21  
Benzo(a)anthracene  
Concen: 0.229 ng/ul m  
RT: 21.380 min Scan# 4177  
Delta R.T. -0.020 min  
Lab File: BM043092.D  
Acq: 30 Nov 2023 19:28

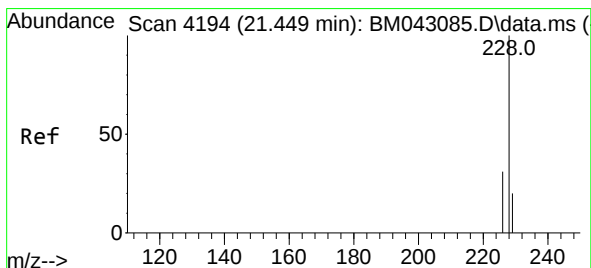
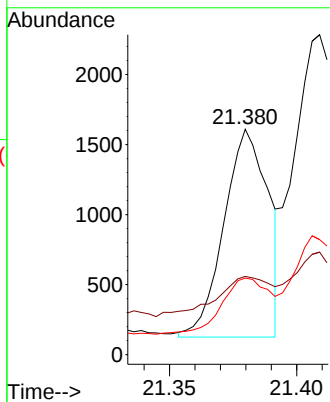
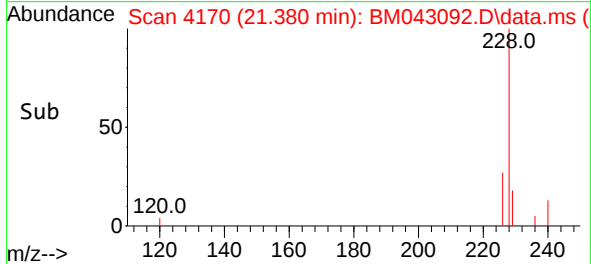
Instrument :  
BNA\_M  
ClientSampleId :  
C0AC2



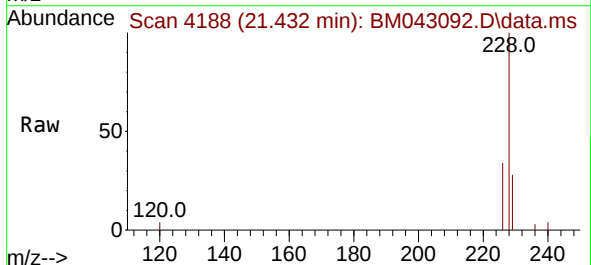
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Ion Ratio Lower Upper  
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229 34.7 19.4 29.0  
226 34.0 24.9 37.3

Manual Integrations  
APPROVED

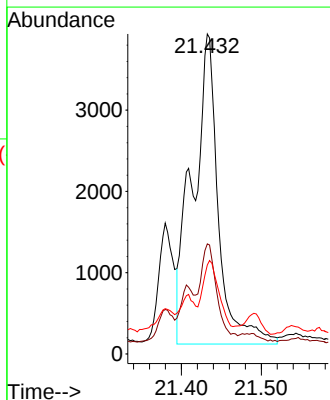
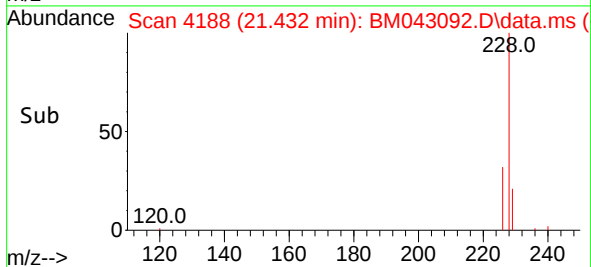
Reviewed By :Yogesh Patel 12/01/2023  
Supervised By :mohammad ahmed 12/04/2023

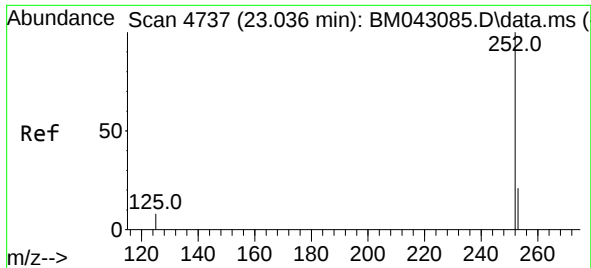


#22  
Chrysene  
Concen: 0.583 ng/ul m  
RT: 21.432 min Scan# 4188  
Delta R.T. -0.017 min  
Lab File: BM043092.D  
Acq: 30 Nov 2023 19:28



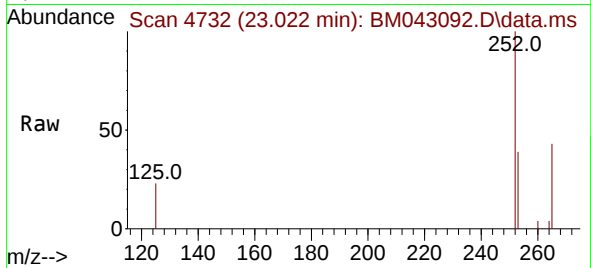
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Ion Ratio Lower Upper  
228 100  
226 34.4 27.2 40.8  
229 27.8 18.0 27.0#





#24  
Benzo(b)fluoranthene  
Concen: 0.301 ng/ul  
RT: 23.022 min Scan# 4732  
Delta R.T. -0.014 min  
Lab File: BM043092.D  
Acq: 30 Nov 2023 19:28

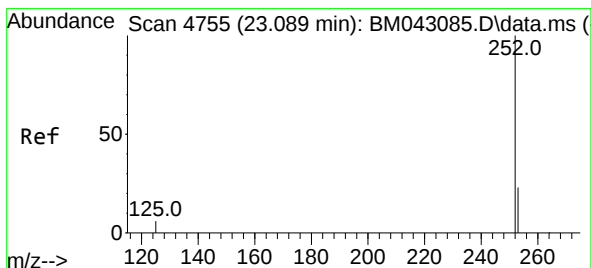
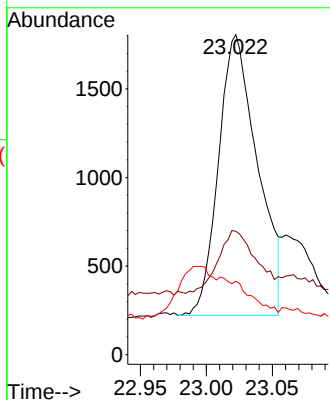
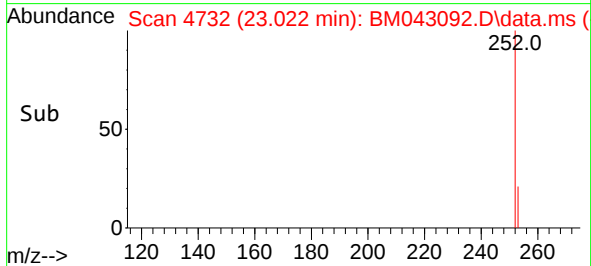
Instrument :  
BNA\_M  
ClientSampleId :  
C0AC2



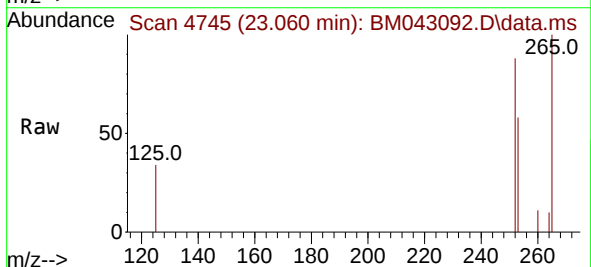
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125 23.0 0.0 29.0

Manual Integrations  
APPROVED

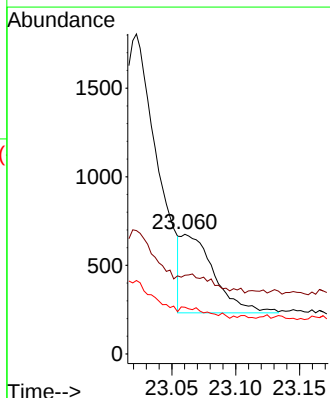
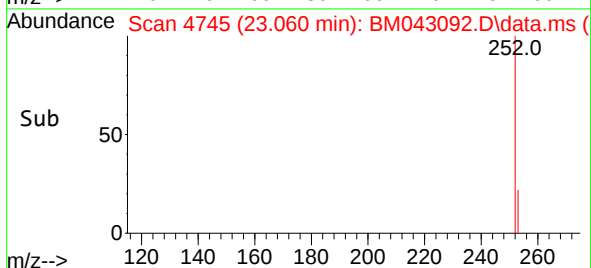
Reviewed By :Yogesh Patel 12/01/2023  
Supervised By :mohammad ahmed 12/04/2023

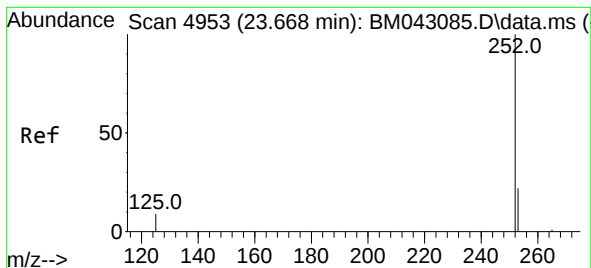


#25  
Benzo(k)fluoranthene  
Concen: 0.054 ng/ul m  
RT: 23.060 min Scan# 4745  
Delta R.T. -0.029 min  
Lab File: BM043092.D  
Acq: 30 Nov 2023 19:28



Tgt Ion:252 Resp: 811  
Ion Ratio Lower Upper  
252 100  
253 65.7 28.2 42.2#  
125 39.1 11.0 16.6#





#26

Benzo(a)pyrene

Concen: 0.105 ng/ul

RT: 23.633 min Scan# 4953

Delta R.T. -0.035 min

Lab File: BM043092.D

Acq: 30 Nov 2023 19:28

Instrument :

BNM

ClientSampleId :

C0AC2

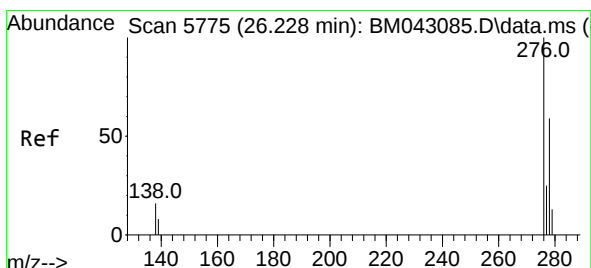
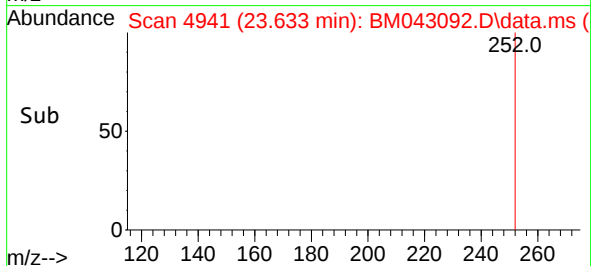
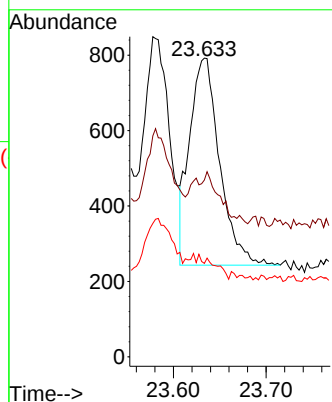
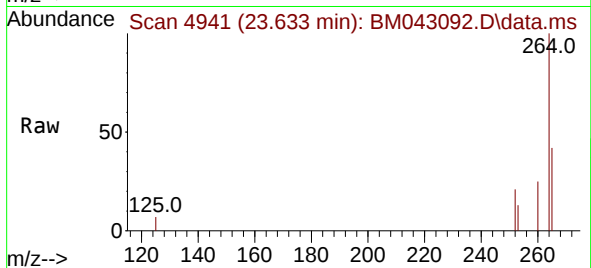
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 124  |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 59.2  | 36.6  | 55.0 |
| 125       | 31.3  | 16.2  | 24.4 |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/01/2023

Supervised By :mohammad ahmed 12/04/2023



#27

Indeno(1,2,3-cd)pyrene

Concen: 0.059 ng/ul

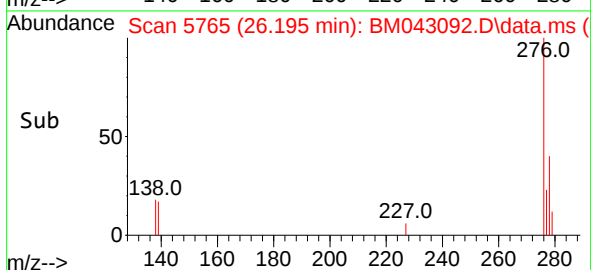
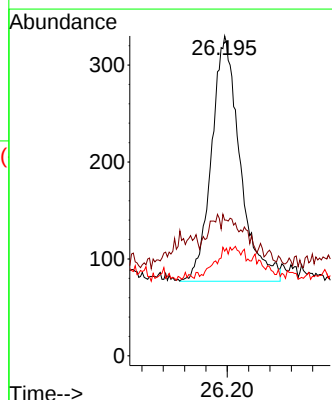
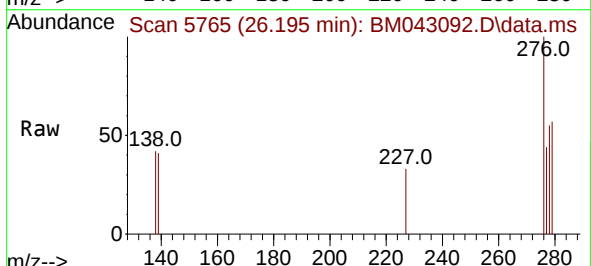
RT: 26.195 min Scan# 5765

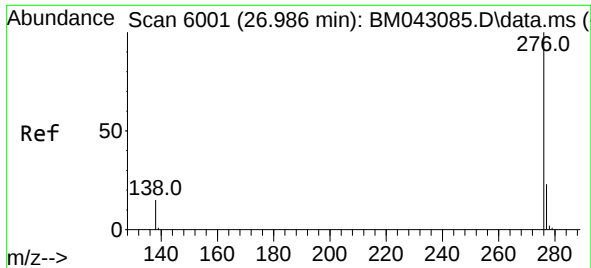
Delta R.T. -0.033 min

Lab File: BM043092.D

Acq: 30 Nov 2023 19:28

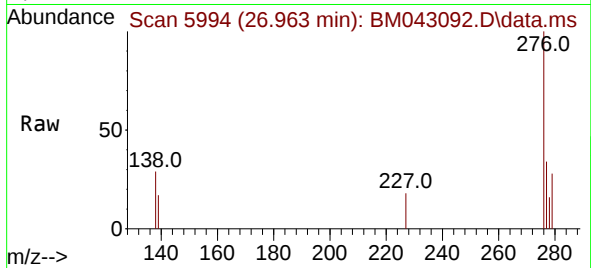
|           |       |       |     |
|-----------|-------|-------|-----|
| Tgt Ion:  | 276   | Resp: | 936 |
| Ion Ratio | Lower | Upper |     |
| 276       | 100   |       |     |
| 138       | 25.6  | 0.0   | 0.0 |
| 227       | 0.0   | 0.2   | 0.2 |





#29  
 Benzo(g,h,i)perylene  
 Concen: 0.118 ng/ul  
 RT: 26.963 min Scan# 5994  
 Delta R.T. -0.023 min  
 Lab File: BM043092.D  
 Acq: 30 Nov 2023 19:28

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AC2



Tgt Ion: 276 Resp: 183  
 Ion Ratio Lower Upper  
 276 100  
 138 29.3 17.8 26.8  
 277 34.2 23.8 35.8

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 12/01/2023  
 Supervised By :mohammad ahmed 12/04/2023

