

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM112823\  
 Data File : BM043077.D  
 Acq On : 28 Nov 2023 18:21  
 Operator : MA/JU  
 Sample : 05416-23DL 2X  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AH6DL

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 11/29/2023  
 Supervised By :mohammad ahmed 11/29/2023

Quant Time: Nov 28 23:39:13 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 : Mon Nov 27 02:36:19 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.813  | 152  | 906m     | 0.400 | ng/ul  | -0.07    |
| 4) Naphthalene-d8           | 10.612 | 136  | 2883     | 0.400 | ng/ul  | #-0.04   |
| 9) Acenaphthene-d10         | 14.456 | 164  | 1470m    | 0.400 | ng/ul  | -0.01    |
| 13) Phenanthrene-d10        | 17.213 | 188  | 2959     | 0.400 | ng/ul  | -0.02    |
| 17) Chrysene-d12            | 21.403 | 240  | 2125     | 0.400 | ng/ul  | -0.02    |
| 23) Perylene-d12            | 23.753 | 264  | 1978m    | 0.400 | ng/ul  | -0.03    |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.160  | 96   | 1090     | 0.784 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.240 | 152  | 392      | 0.102 | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.239 | 212  | 909      | 0.117 | ng/ul  | -0.02    |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.667 | 128  | 306      | 0.039 | ng/ul# | 54       |
| 7) 2-Methylnaphthalene      | 12.311 | 142  | 245      | 0.053 | ng/ul  | 100      |
| 8) 1-Methylnaphthalene      | 12.509 | 142  | 174      | 0.034 | ng/ul  | 95       |
| 10) Acenaphthylene          | 14.183 | 152  | 273      | 0.036 | ng/ul# | 55       |
| 11) Acenaphthene            | 14.516 | 153  | 2680     | 0.471 | ng/ul  | 96       |
| 12) Fluorene                | 15.511 | 166  | 2773     | 0.475 | ng/ul  | 98       |
| 15) Phenanthrene            | 17.251 | 178  | 4970     | 0.589 | ng/ul  | 96       |
| 16) Anthracene              | 17.348 | 178  | 899m     | 0.112 | ng/ul  |          |
| 19) Fluoranthene            | 19.272 | 202  | 11033    | 0.916 | ng/ul# | 93       |
| 20) Pyrene                  | 19.634 | 202  | 9725     | 0.759 | ng/ul# | 94       |
| 21) Benzo(a)anthracene      | 21.388 | 228  | 3642     | 0.528 | ng/ul  | 98       |
| 22) Chrysene                | 21.444 | 228  | 3726     | 0.290 | ng/ul  | 99       |
| 24) Benzo(b)fluoranthene    | 23.031 | 252  | 4647     | 0.696 | ng/ul  | 96       |
| 25) Benzo(k)fluoranthene    | 23.074 | 252  | 2117m    | 0.230 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.642 | 252  | 3001     | 0.412 | ng/ul  | 92       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.215 | 276  | 2449     | 0.248 | ng/ul# | 99       |
| 29) Benzo(g,h,i)perylene    | 26.976 | 276  | 2272     | 0.237 | ng/ul  | 93       |
| -----                       |        |      |          |       |        |          |

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

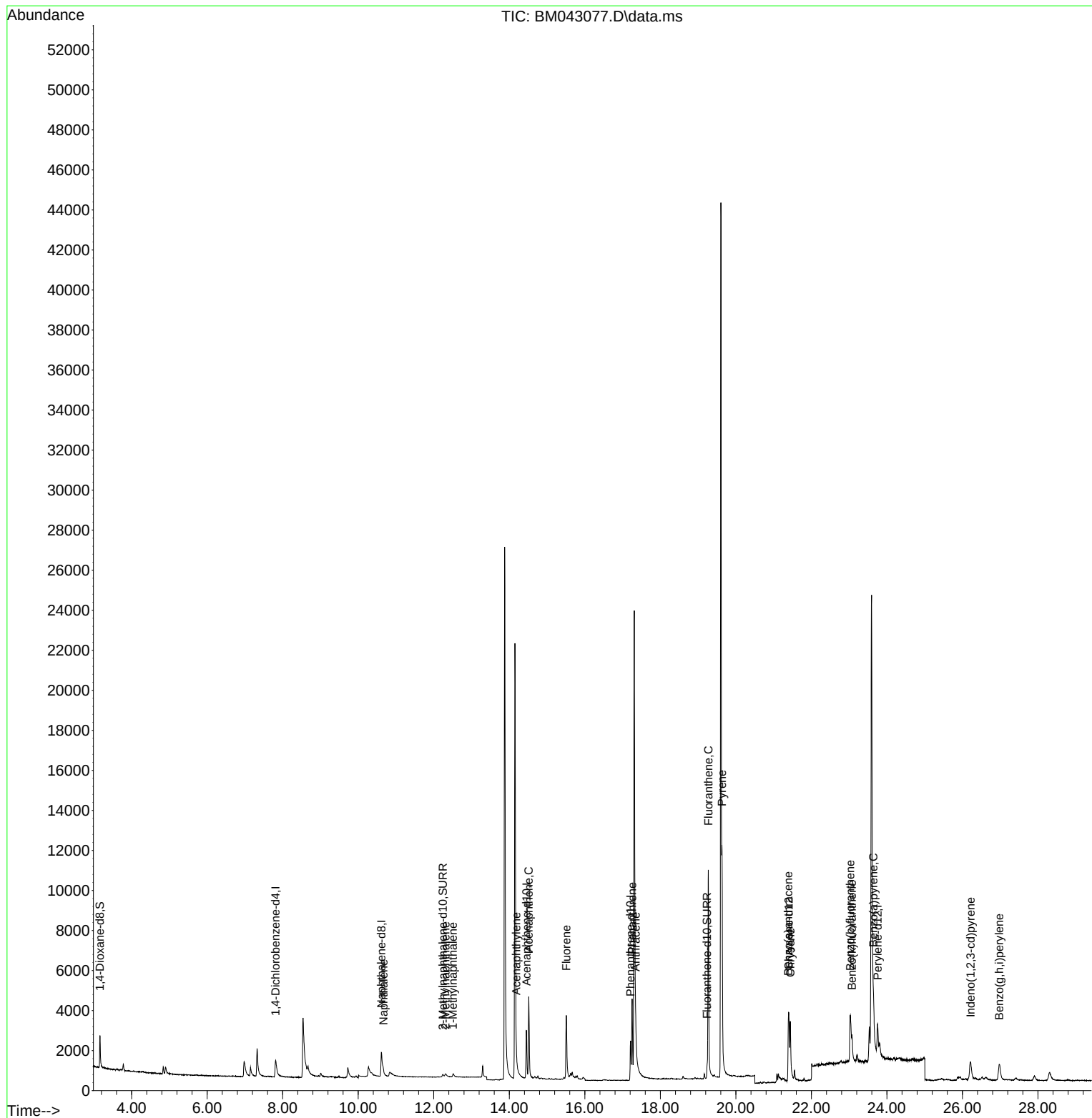
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM112823\  
Data File : BM043077.D  
Acq On : 28 Nov 2023 18:21  
Operator : MA/JU  
Sample : 05416-23DL 2X  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

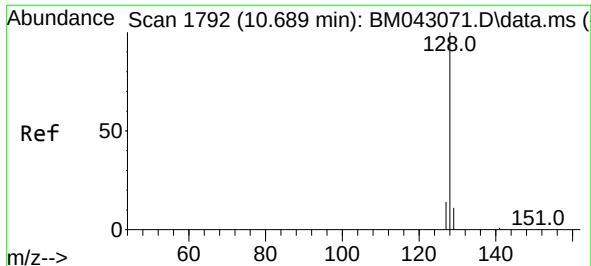
Instrument :  
BNA\_M  
ClientSampleId :  
C0AH6DL

Manual Integrations  
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Reviewed By :Yogesh Patel 11/29/2023  
Supervised By :mohammad ahmed 11/29/2023

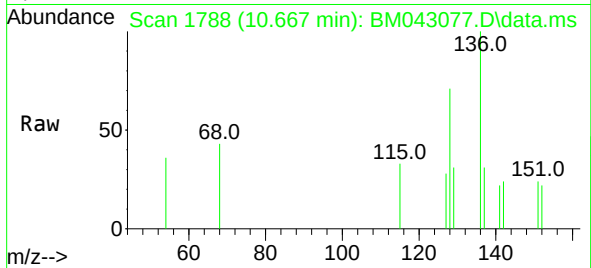
Quant Time: Nov 28 23:39:13 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM112423.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Nov 27 02:36:19 2023  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.039 ng/ul  
RT: 10.667 min Scan# 1788  
Delta R.T. -0.032 min  
Lab File: BM043077.D  
Acq: 28 Nov 2023 18:21

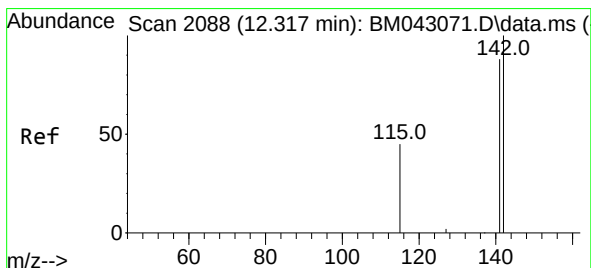
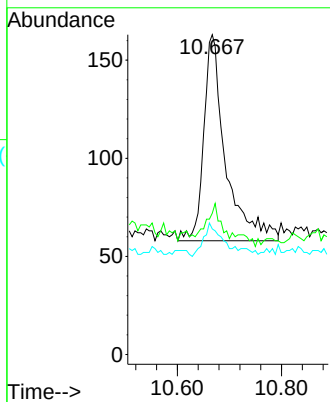
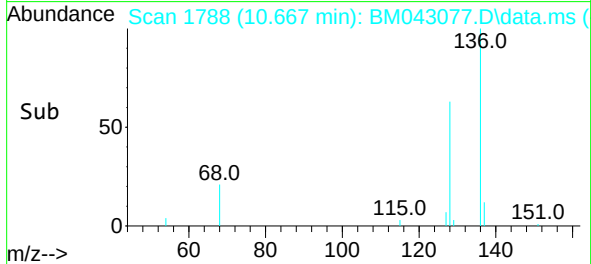
Instrument :  
BNA\_M  
ClientSampleId :  
C0AH6DL



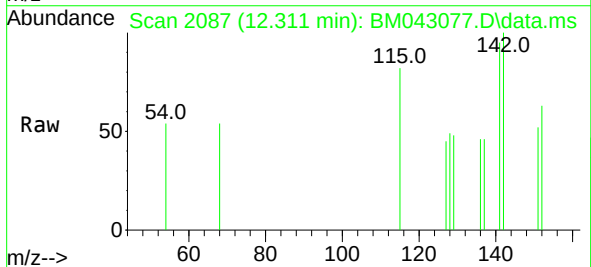
Tgt Ion:128 Resp: 300  
Ion Ratio Lower Upper  
128 100  
129 44.2 16.0 24.0  
127 39.3 16.5 24.7

Manual Integrations  
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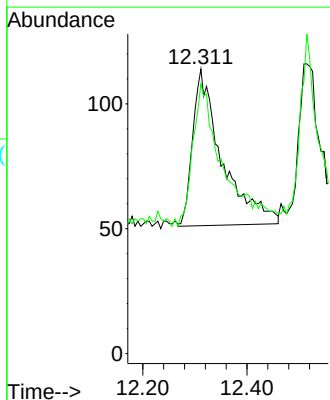
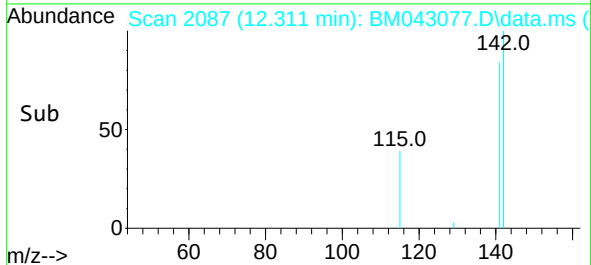
Reviewed By :Yogesh Patel 11/29/2023  
Supervised By :mohammad ahmed 11/29/2023

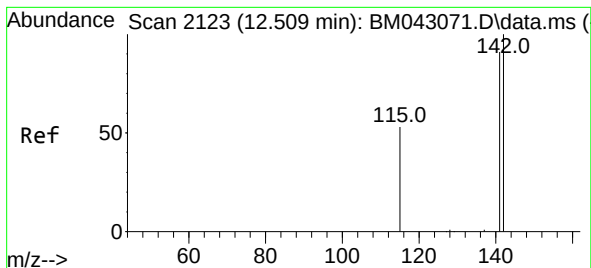


#7  
2-Methylnaphthalene  
Concen: 0.053 ng/ul  
RT: 12.311 min Scan# 2087  
Delta R.T. -0.021 min  
Lab File: BM043077.D  
Acq: 28 Nov 2023 18:21



Tgt Ion:142 Resp: 245  
Ion Ratio Lower Upper  
142 100  
141 95.5 76.1 114.1





#8

1-Methylnaphthalene

Concen: 0.034 ng/ul

RT: 12.509 min Scan# 2123

Delta R.T. -0.010 min

Lab File: BM043077.D

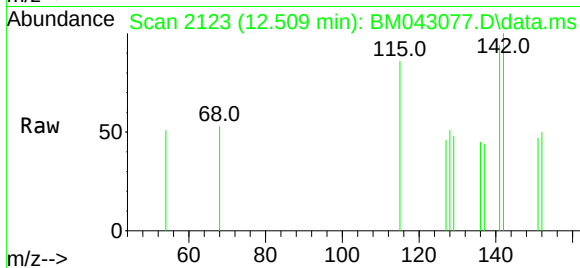
Acq: 28 Nov 2023 18:21

Instrument :

BNA\_M

ClientSampleId :

C0AH6DL



Tgt Ion:142 Resp: 174

Ion Ratio Lower Upper

142 100

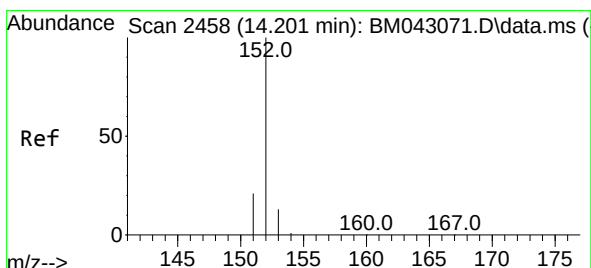
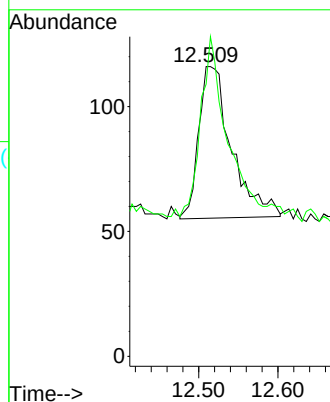
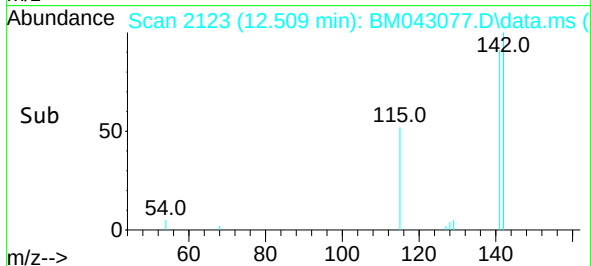
141 97.1 73.8 110.8

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#10

Acenaphthylene

Concen: 0.036 ng/ul

RT: 14.183 min Scan# 2454

Delta R.T. -0.022 min

Lab File: BM043077.D

Acq: 28 Nov 2023 18:21

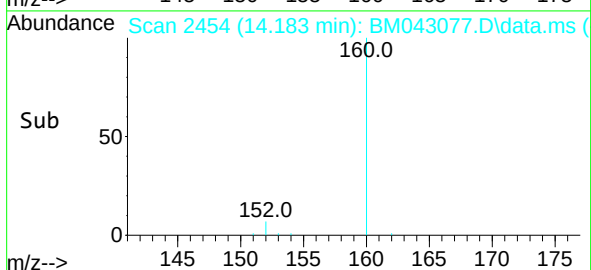
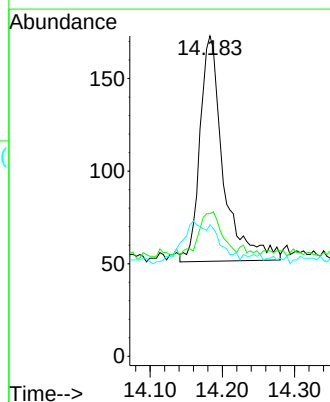
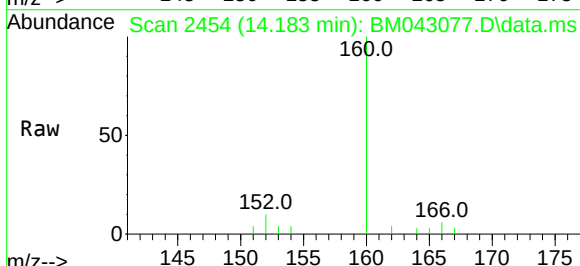
Tgt Ion:152 Resp: 273

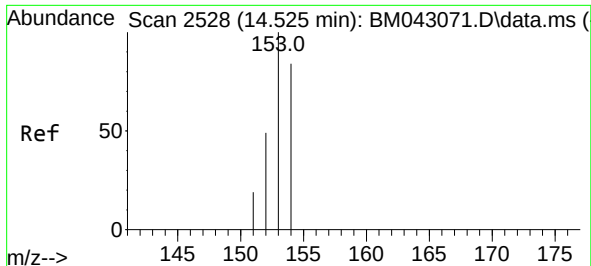
Ion Ratio Lower Upper

152 100

151 44.5 19.4 29.0#

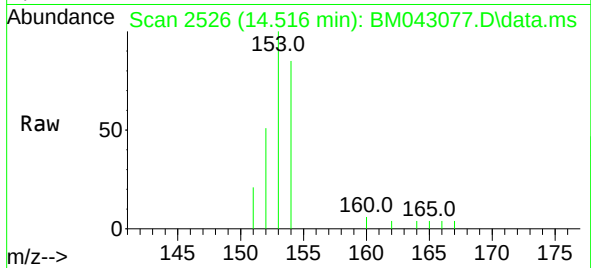
153 41.0 14.6 21.8#





#11  
Acenaphthene  
Concen: 0.471 ng/u1  
RT: 14.516 min Scan# 21  
Delta R.T. -0.017 min  
Lab File: BM043077.D  
Acq: 28 Nov 2023 18:21

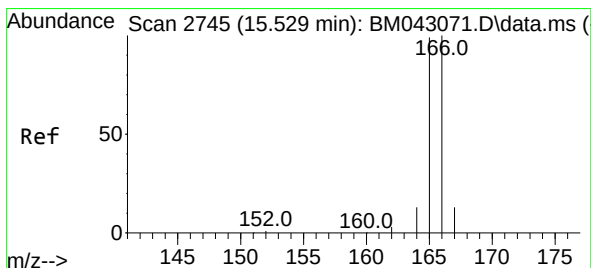
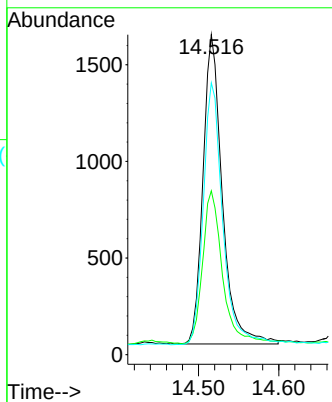
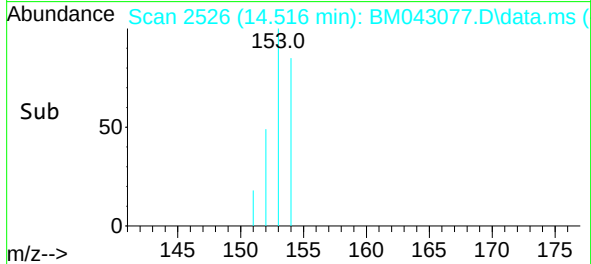
Instrument :  
BNA\_M  
ClientSampleId :  
C0AH6DL



Tgt Ion:153 Resp: 2680  
Ion Ratio Lower Upper  
153 100  
152 51.2 43.9 65.9  
154 85.0 70.6 105.8

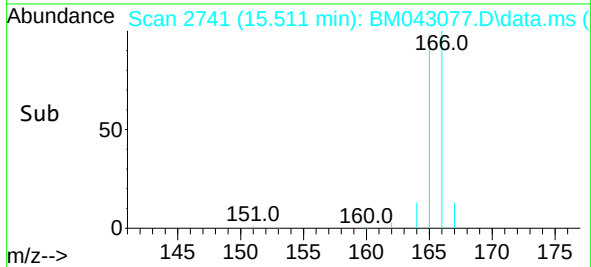
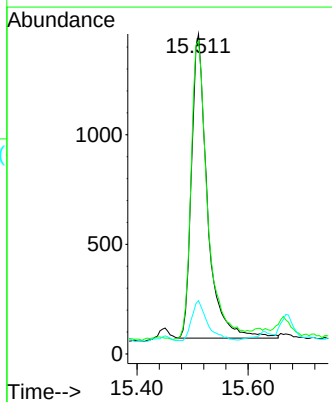
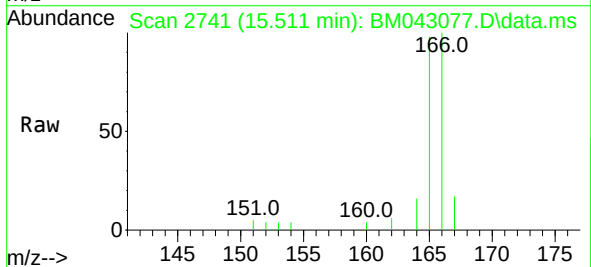
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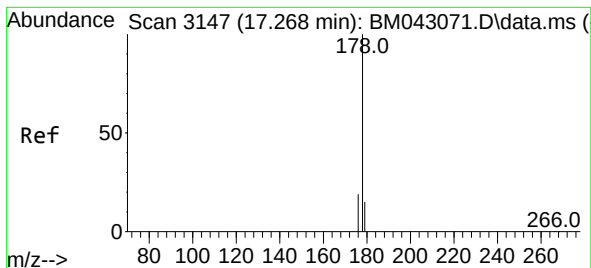
Reviewed By :Yogesh Patel 11/29/2023  
Supervised By :mohammad ahmed 11/29/2023



#12  
Fluorene  
Concen: 0.475 ng/u1  
RT: 15.511 min Scan# 2741  
Delta R.T. -0.026 min  
Lab File: BM043077.D  
Acq: 28 Nov 2023 18:21

Tgt Ion:166 Resp: 2773  
Ion Ratio Lower Upper  
166 100  
165 97.9 79.9 119.9  
167 16.6 14.2 21.4





#15

Phenanthrene

Concen: 0.589 ng/ul

RT: 17.251 min Scan# 3143

Delta R.T. -0.028 min

Lab File: BM043077.D

Acq: 28 Nov 2023 18:21

Instrument :

BNA\_M

ClientSampleId :

C0AH6DL

Tgt Ion:178 Resp: 4970

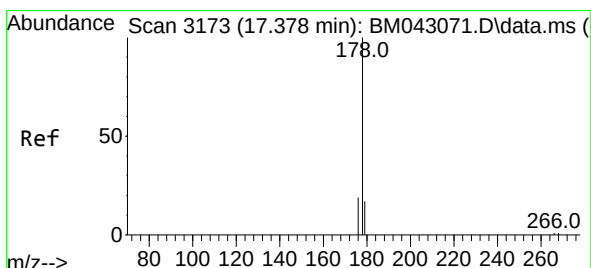
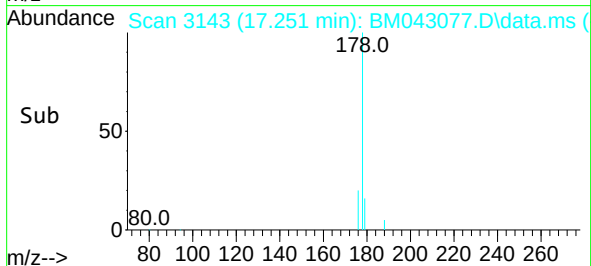
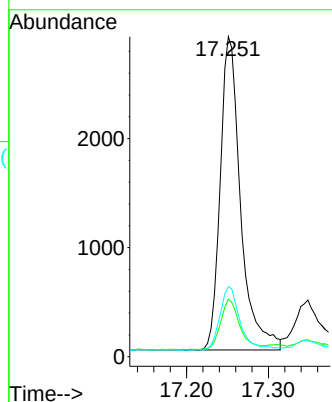
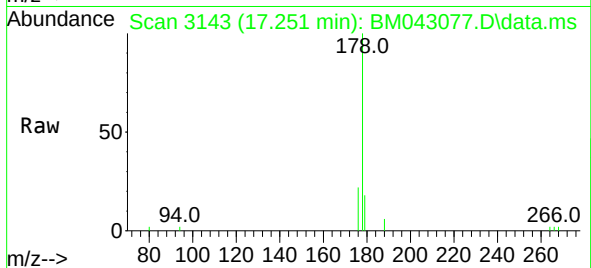
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 18.0  | 15.7  | 23.5  |
| 176 | 21.9  | 18.9  | 28.3  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2023

Supervised By :mohammad ahmed 11/29/2023



#16

Anthracene

Concen: 0.112 ng/ul m

RT: 17.348 min Scan# 3166

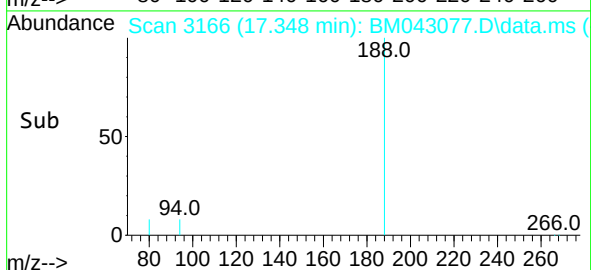
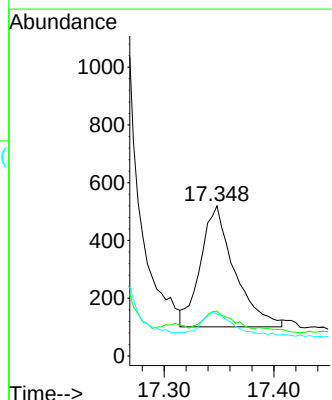
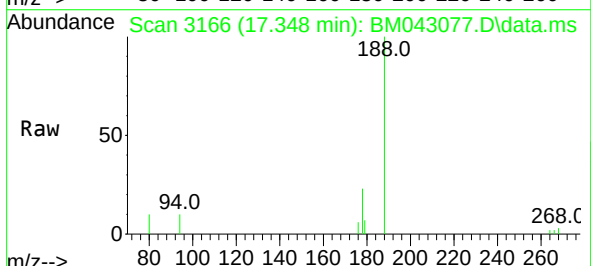
Delta R.T. -0.045 min

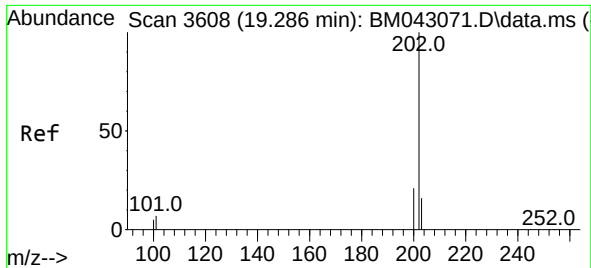
Lab File: BM043077.D

Acq: 28 Nov 2023 18:21

Tgt Ion:178 Resp: 899

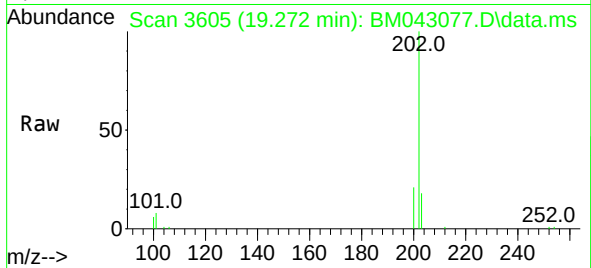
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 30.0  | 17.3  | 25.9  |
| 176 | 28.1  | 20.5  | 30.7  |





#19  
Fluoranthene  
Concen: 0.916 ng/u1  
RT: 19.272 min Scan# 3605  
Delta R.T. -0.022 min  
Lab File: BM043077.D  
Acq: 28 Nov 2023 18:21

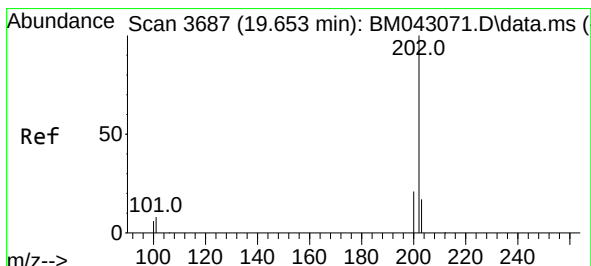
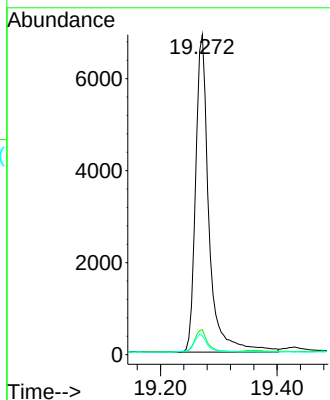
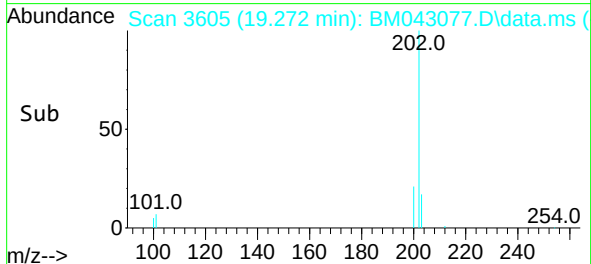
Instrument :  
BNA\_M  
ClientSampleId :  
C0AH6DL



Tgt Ion:202 Resp: 1103  
Ion Ratio Lower Upper  
202 100  
101 7.8 7.8 11.8  
100 5.9 7.1 10.7

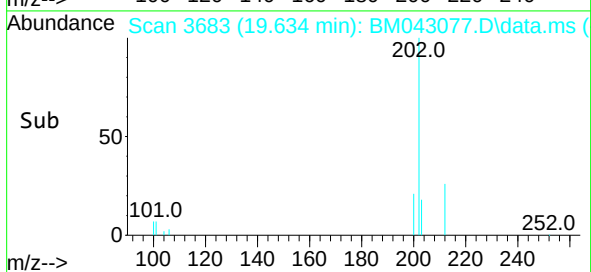
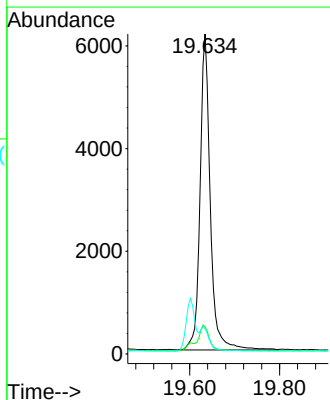
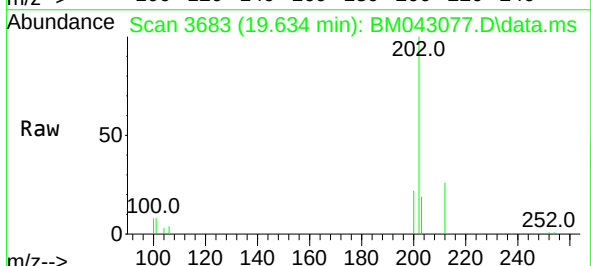
Manual Integrations  
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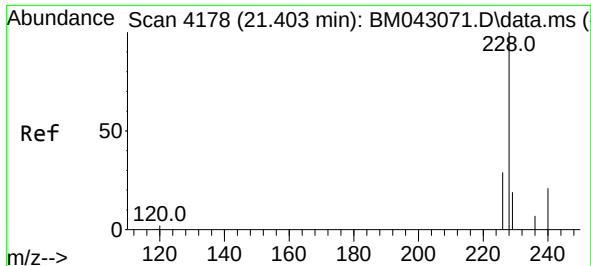
Reviewed By :Yogesh Patel 11/29/2023  
Supervised By :mohammad ahmed 11/29/2023



#20  
Pyrene  
Concen: 0.759 ng/u1  
RT: 19.634 min Scan# 3683  
Delta R.T. -0.026 min  
Lab File: BM043077.D  
Acq: 28 Nov 2023 18:21

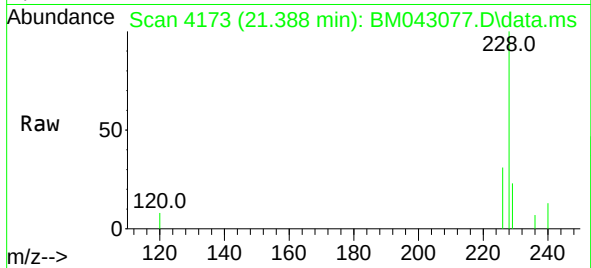
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Ion Ratio Lower Upper  
202 100  
101 8.5 8.7 13.1#  
100 7.9 7.8 11.8





#21  
Benzo(a)anthracene  
Concen: 0.528 ng/u1  
RT: 21.388 min Scan# 4173  
Delta R.T. -0.024 min  
Lab File: BM043077.D  
Acq: 28 Nov 2023 18:21

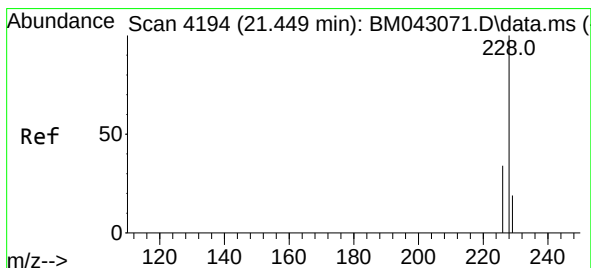
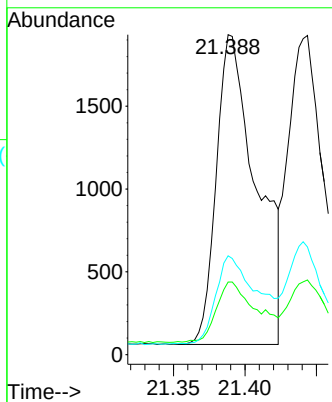
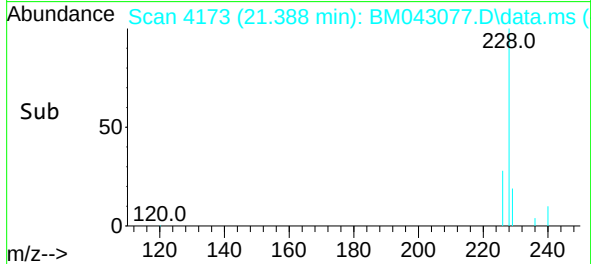
Instrument :  
BNA\_M  
ClientSampleId :  
C0AH6DL



Tgt Ion:228 Resp: 364  
Ion Ratio Lower Upper  
228 100  
229 22.7 19.4 29.0  
226 30.9 24.9 37.3

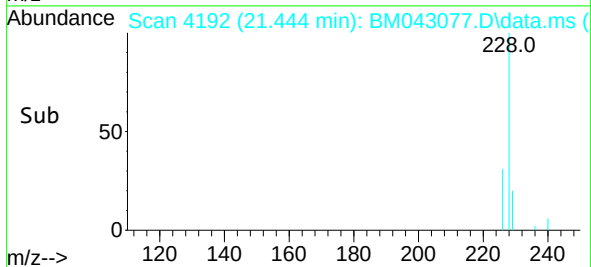
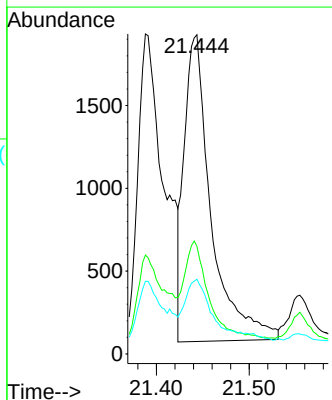
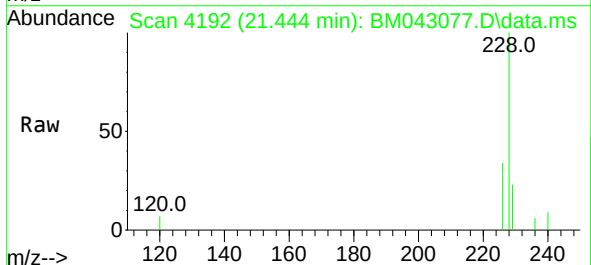
Manual Integrations  
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Supervised By :mohammad ahmed 11/29/2023

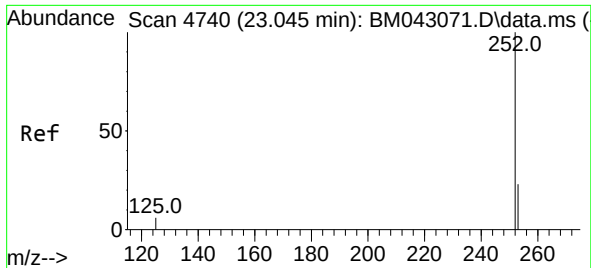


#22  
Chrysene  
Concen: 0.290 ng/u1  
RT: 21.444 min Scan# 4192  
Delta R.T. -0.015 min  
Lab File: BM043077.D  
Acq: 28 Nov 2023 18:21

Tgt Ion:228 Resp: 3726  
Ion Ratio Lower Upper  
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226 33.7 27.2 40.8  
229 23.4 18.0 27.0

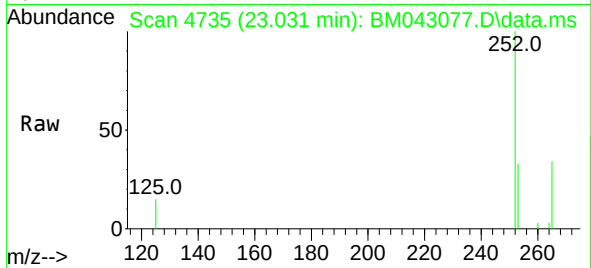






#24  
Benzo(b)fluoranthene  
Concen: 0.696 ng/ul  
RT: 23.031 min Scan# 4735  
Delta R.T. -0.021 min  
Lab File: BM043077.D  
Acq: 28 Nov 2023 18:21

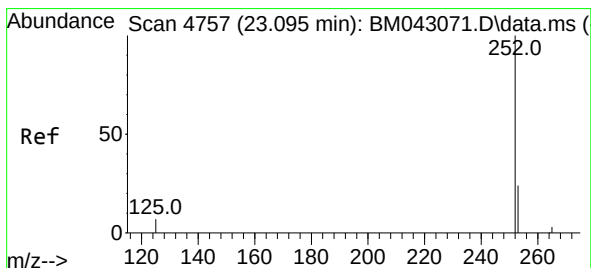
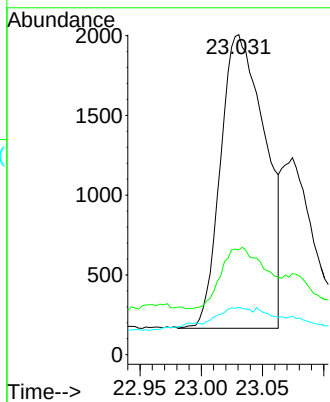
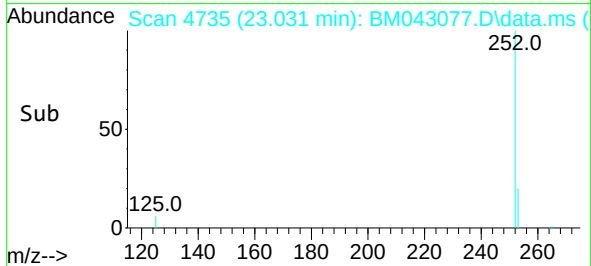
Instrument :  
BNA\_M  
ClientSampleId :  
C0AH6DL



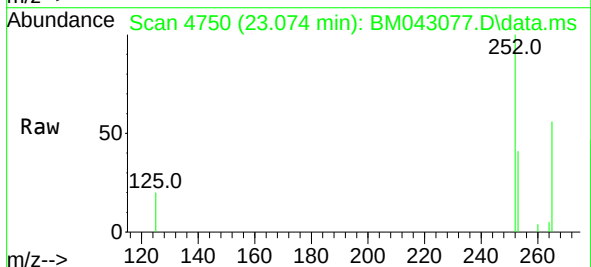
Tgt Ion:252 Resp: 464  
Ion Ratio Lower Upper  
252 100  
253 32.8 0.0 71.8  
125 14.8 0.0 29.0

Manual Integrations  
APPROVED

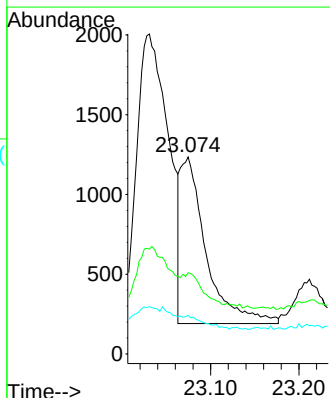
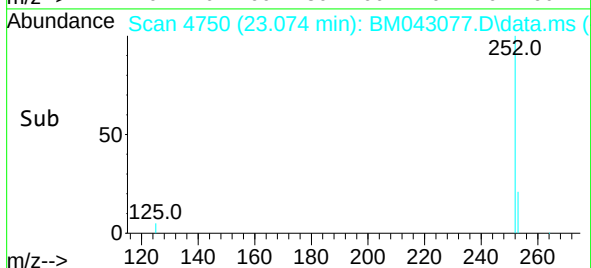
Reviewed By :Yogesh Patel 11/29/2023  
Supervised By :mohammad ahmed 11/29/2023

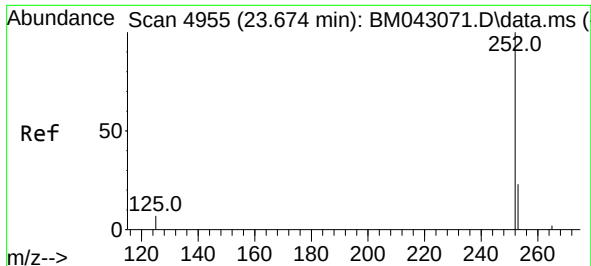


#25  
Benzo(k)fluoranthene  
Concen: 0.230 ng/ul m  
RT: 23.074 min Scan# 4750  
Delta R.T. -0.024 min  
Lab File: BM043077.D  
Acq: 28 Nov 2023 18:21



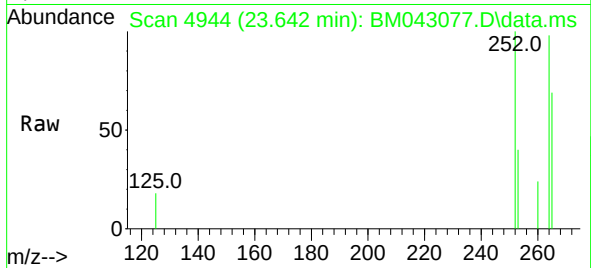
Tgt Ion:252 Resp: 2117  
Ion Ratio Lower Upper  
252 100  
253 41.3 28.2 42.2  
125 19.6 11.0 16.6#





#26  
Benzo(a)pyrene  
Concen: 0.412 ng/ul  
RT: 23.642 min Scan# 4955  
Delta R.T. -0.044 min  
Lab File: BM043077.D  
Acq: 28 Nov 2023 18:21

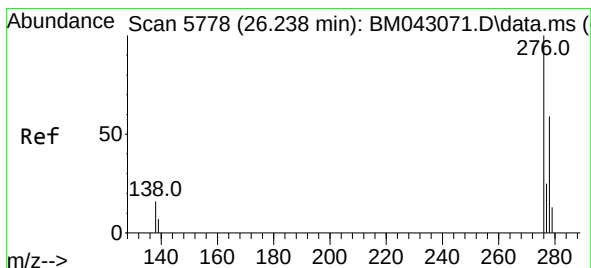
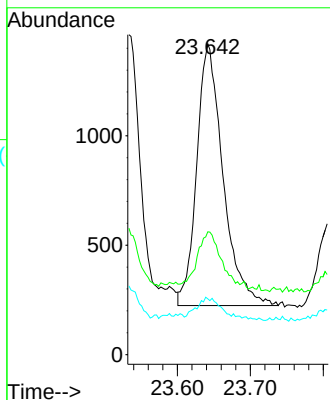
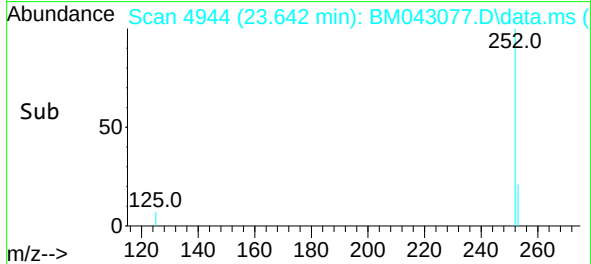
Instrument :  
BNA\_M  
ClientSampleId :  
C0AH6DL



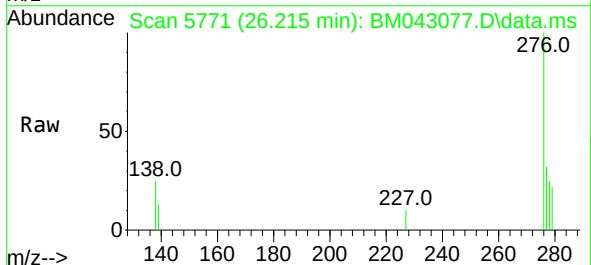
Tgt Ion:252 Resp: 300  
Ion Ratio Lower Upper  
252 100  
253 39.5 36.6 55.0  
125 18.0 16.2 24.4

Manual Integrations  
APPROVED

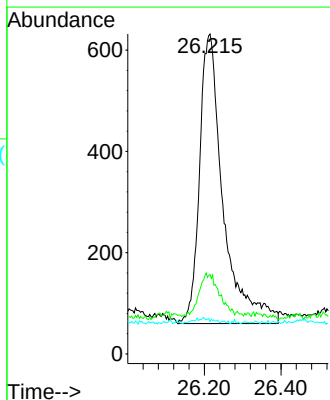
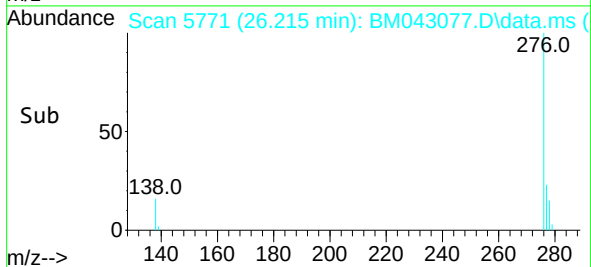
Reviewed By :Yogesh Patel 11/29/2023  
Supervised By :mohammad ahmed 11/29/2023

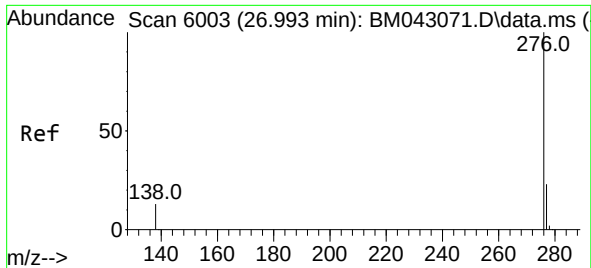


#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.248 ng/ul  
RT: 26.215 min Scan# 5771  
Delta R.T. -0.024 min  
Lab File: BM043077.D  
Acq: 28 Nov 2023 18:21



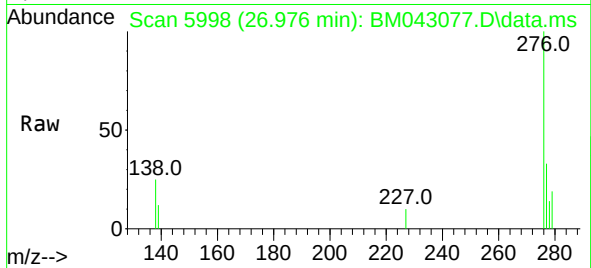
Tgt Ion:276 Resp: 2449  
Ion Ratio Lower Upper  
276 100  
138 12.9 0.0 0.0#  
227 0.9 0.2 0.2#





#29  
Benzo(g,h,i)perylene  
Concen: 0.237 ng/ul  
RT: 26.976 min Scan# 5998  
Delta R.T. -0.034 min  
Lab File: BM043077.D  
Acq: 28 Nov 2023 18:21

Instrument :  
BNA\_M  
ClientSampleId :  
C0AH6DL



Tgt Ion: 276 Resp: 227.0  
Ion Ratio Lower Upper  
276 100  
138 25.4 17.8 26.8  
277 33.5 23.8 35.8

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 11/29/2023  
Supervised By :mohammad ahmed 11/29/2023

