

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM070323\  
 Data File : BM040625.D  
 Acq On : 04 Jul 2023 23:22  
 Operator : MA/JU  
 Sample : 03244-19DL 5X  
 Misc :  
 ALS Vial : 62 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 DCGF8DL

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 07/05/2023  
 Supervised By :mohammad ahmed 07/05/2023

Quant Time: Jul 05 02:43:06 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM062223.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jul 03 13:40:38 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.911  | 152  | 8515     | 0.400 | ng/ul  | -0.01    |
| 4) Naphthalene-d8           | 10.716 | 136  | 30958    | 0.400 | ng/ul  | -0.02    |
| 9) Acenaphthene-d10         | 14.557 | 164  | 14644    | 0.400 | ng/ul  | -0.01    |
| 13) Phenanthrene-d10        | 17.305 | 188  | 28083    | 0.400 | ng/ul  | -0.01    |
| 17) Chrysene-d12            | 21.492 | 240  | 16105    | 0.400 | ng/ul  | -0.01    |
| 23) Perylene-d12            | 23.894 | 264  | 15106    | 0.400 | ng/ul  | -0.02    |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.312  | 96   | 10269    | 0.768 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.311 | 152  | 2474     | 0.057 | ng/ul  | -0.01    |
| 18) Fluoranthene-d10        | 19.332 | 212  | 3449     | 0.067 | ng/ul  | -0.02    |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.766 | 128  | 6944     | 0.081 | ng/ul# | 95       |
| 7) 2-Methylnaphthalene      | 12.382 | 142  | 3458     | 0.069 | ng/ul  | 100      |
| 8) 1-Methylnaphthalene      | 12.602 | 142  | 2088     | 0.042 | ng/ul  | 98       |
| 10) Acenaphthylene          | 14.280 | 152  | 12455    | 0.190 | ng/ul  | 98       |
| 11) Acenaphthene            | 14.617 | 153  | 2618     | 0.047 | ng/ul  | 96       |
| 12) Fluorene                | 15.603 | 166  | 2822     | 0.048 | ng/ul# | 93       |
| 15) Phenanthrene            | 17.348 | 178  | 81612    | 0.936 | ng/ul  | 99       |
| 16) Anthracene              | 17.441 | 178  | 17678    | 0.241 | ng/ul  | 98       |
| 19) Fluoranthene            | 19.364 | 202  | 213332   | 3.118 | ng/ul  | 96       |
| 20) Pyrene                  | 19.727 | 202  | 162811   | 2.220 | ng/ul  | 98       |
| 21) Benzo(a)anthracene      | 21.474 | 228  | 89720    | 1.647 | ng/ul  | 98       |
| 22) Chrysene                | 21.527 | 228  | 83303    | 1.341 | ng/ul  | 98       |
| 24) Benzo(b)fluoranthene    | 23.163 | 252  | 134651   | 2.303 | ng/ul  | 90       |
| 25) Benzo(k)fluoranthene    | 23.204 | 252  | 47974m   | 0.833 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.789 | 252  | 79160    | 1.503 | ng/ul# | 86       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.387 | 276  | 69400    | 0.946 | ng/ul# | 86       |
| 28) Dibenzo(a,h)anthracene  | 26.397 | 278  | 16697    | 0.291 | ng/ul  | 93       |
| 29) Benzo(g,h,i)perylene    | 27.159 | 276  | 63039    | 0.981 | ng/ul  | 96       |
| -----                       |        |      |          |       |        |          |

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

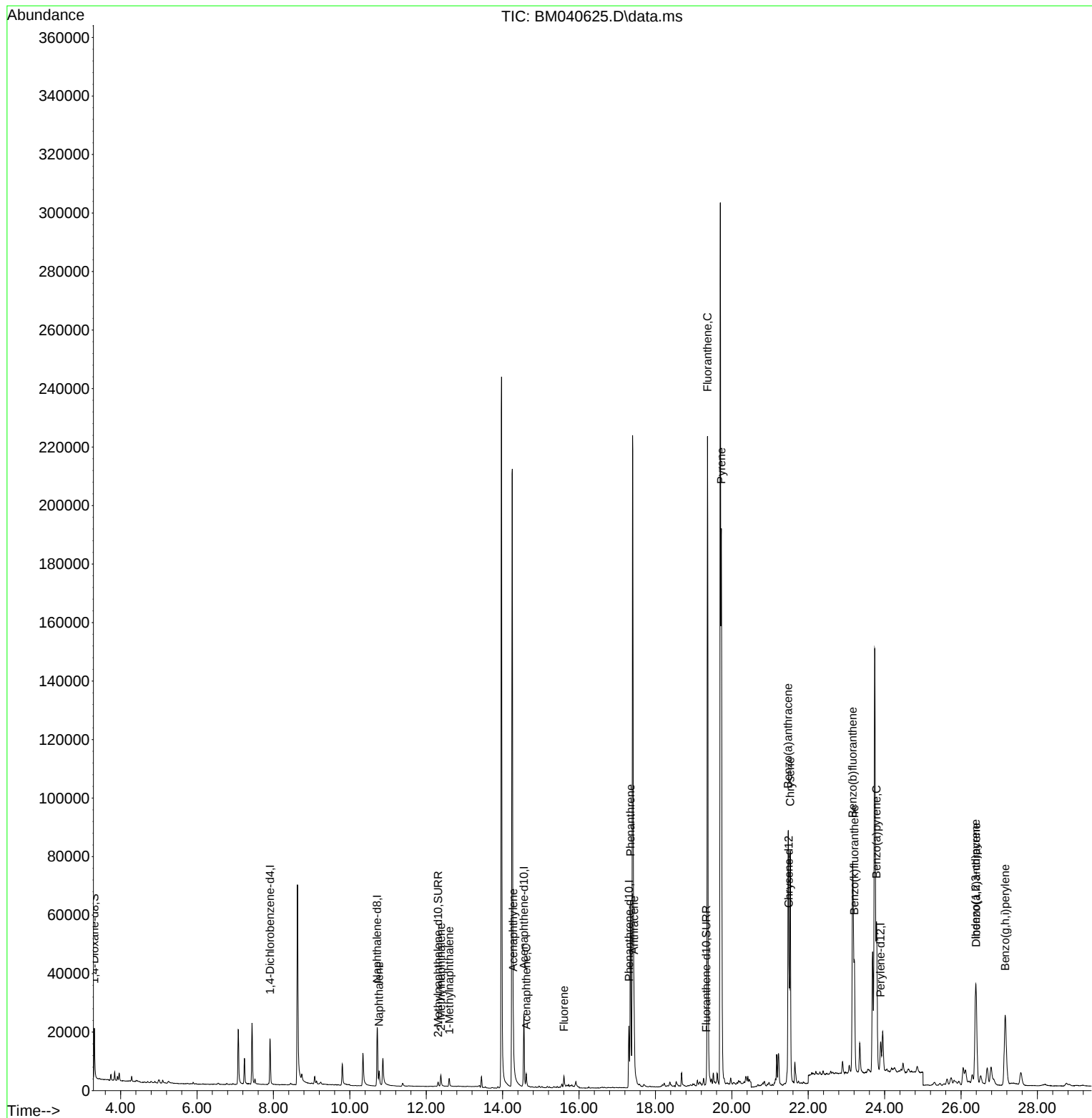
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM070323\  
Data File : BM040625.D  
Acq On : 04 Jul 2023 23:22  
Operator : MA/JU  
Sample : 03244-19DL 5X  
Misc :  
ALS Vial : 62 Sample Multiplier: 1

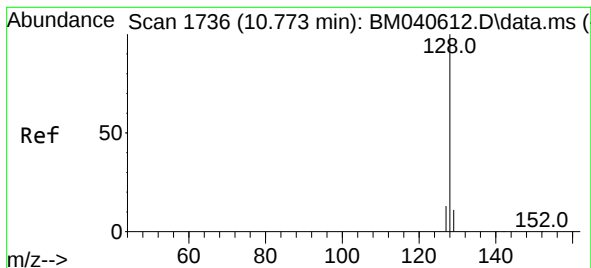
Instrument :  
BNA\_M  
ClientSampleId :  
DCGF8DL

Manual Integrations  
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Reviewed By :Yogesh Patel 07/05/2023  
Supervised By :mohammad ahmed 07/05/2023

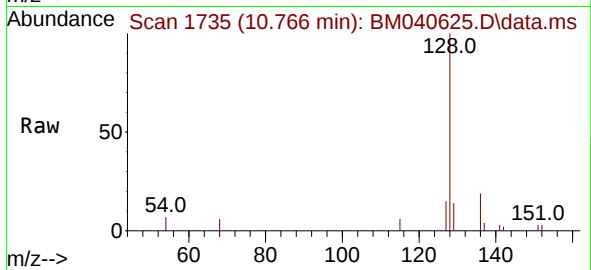
Quant Time: Jul 05 02:43:06 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM062223.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jul 03 13:40:38 2023  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.081 ng/ul  
RT: 10.766 min Scan# 1735  
Delta R.T. -0.018 min  
Lab File: BM040625.D  
Acq: 04 Jul 2023 23:22

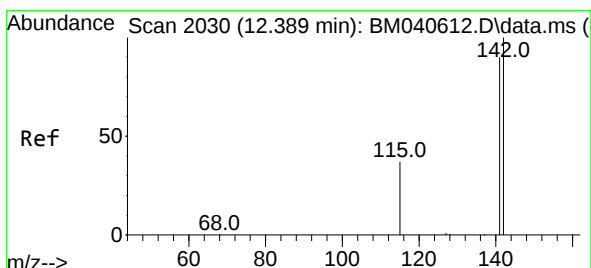
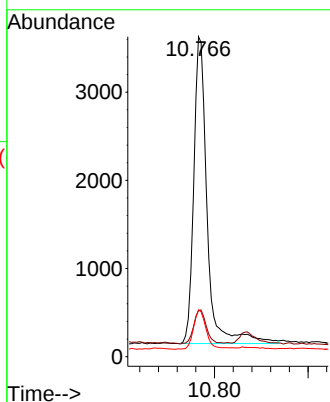
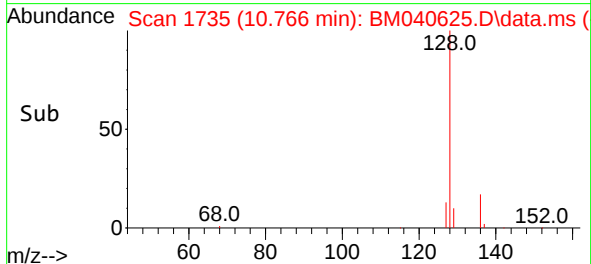
Instrument :  
BNA\_M  
ClientSampleId :  
DCGF8DL



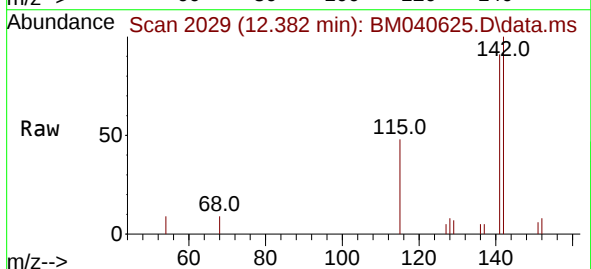
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Ion Ratio Lower Upper  
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129 14.4 9.2 13.8  
127 14.7 10.6 15.8

Manual Integrations  
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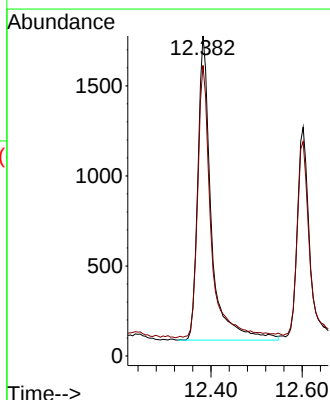
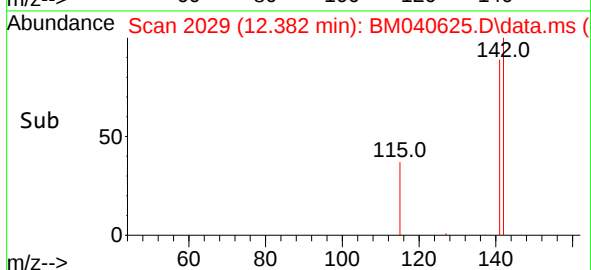
Reviewed By :Yogesh Patel 07/05/2023  
Supervised By :mohammad ahmed 07/05/2023

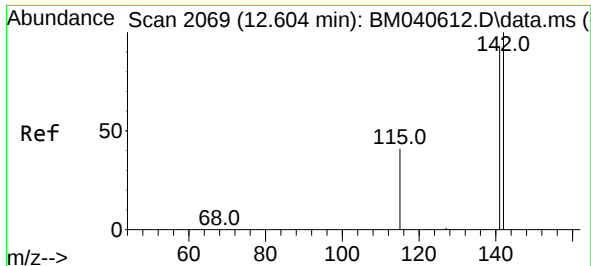


#7  
2-Methylnaphthalene  
Concen: 0.069 ng/ul  
RT: 12.382 min Scan# 2029  
Delta R.T. -0.013 min  
Lab File: BM040625.D  
Acq: 04 Jul 2023 23:22



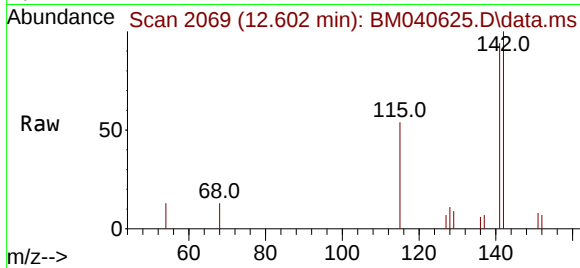
Tgt Ion:142 Resp: 3458  
Ion Ratio Lower Upper  
142 100  
141 89.7 71.9 107.9





#8  
1-Methylnaphthalene  
Concen: 0.042 ng/ul  
RT: 12.602 min Scan# 2069  
Delta R.T. -0.013 min  
Lab File: BM040625.D  
Acq: 04 Jul 2023 23:22

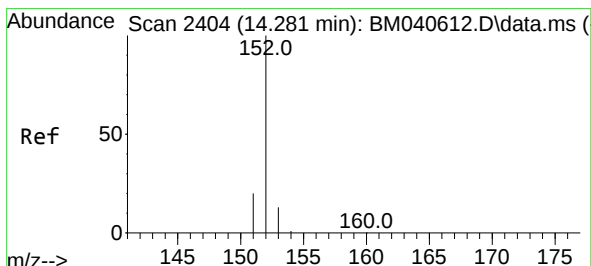
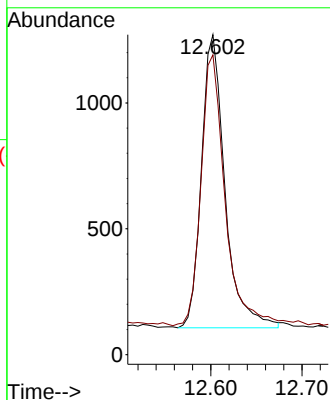
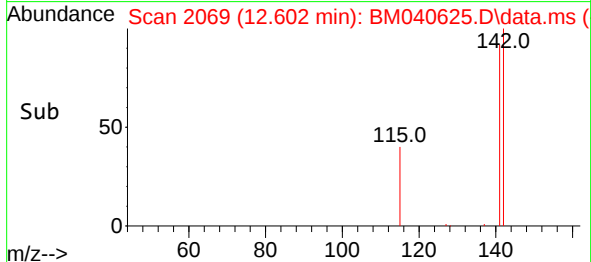
Instrument :  
BNA\_M  
ClientSampleId :  
DCGF8DL



Tgt Ion:142 Resp: 2088  
Ion Ratio Lower Upper  
142 100  
141 94.1 73.7 110.5

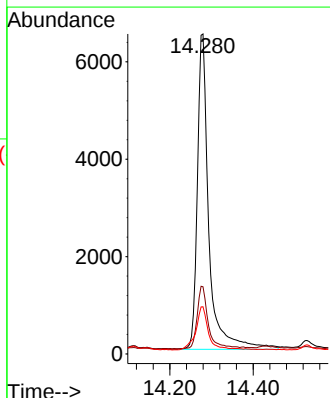
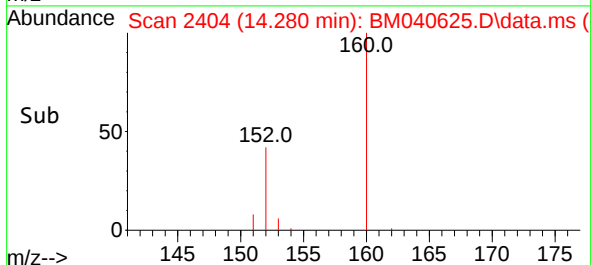
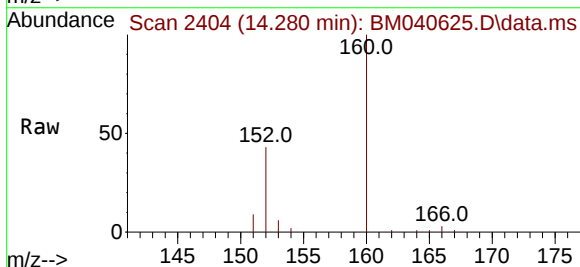
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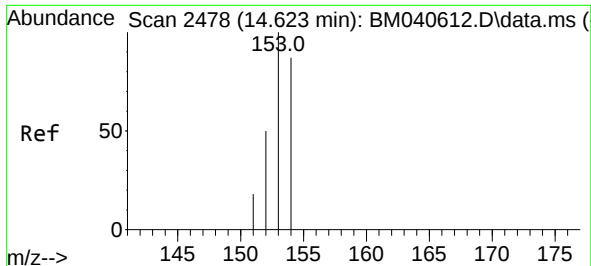
Reviewed By :Yogesh Patel 07/05/2023  
Supervised By :mohammad ahmed 07/05/2023



#10  
Acenaphthylene  
Concen: 0.190 ng/ul  
RT: 14.280 min Scan# 2404  
Delta R.T. -0.011 min  
Lab File: BM040625.D  
Acq: 04 Jul 2023 23:22

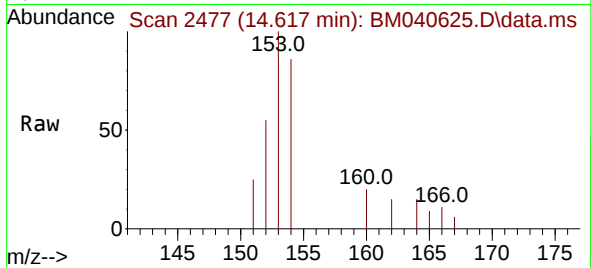
Tgt Ion:152 Resp: 12455  
Ion Ratio Lower Upper  
152 100  
151 21.0 16.2 24.2  
153 14.8 10.9 16.3





#11  
Acenaphthene  
Concen: 0.047 ng/ul  
RT: 14.617 min Scan# 2477  
Delta R.T. -0.015 min  
Lab File: BM040625.D  
Acq: 04 Jul 2023 23:22

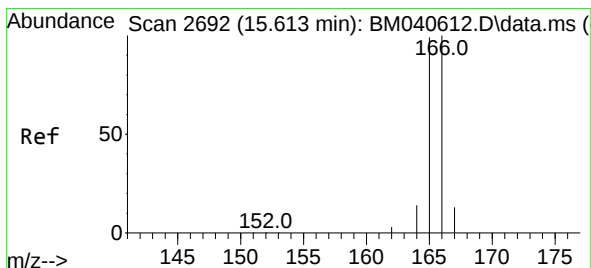
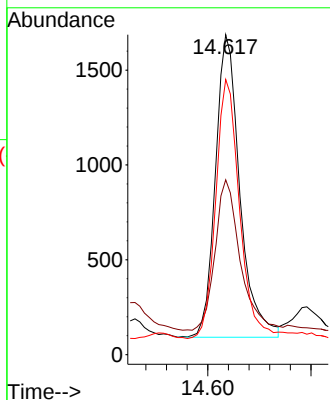
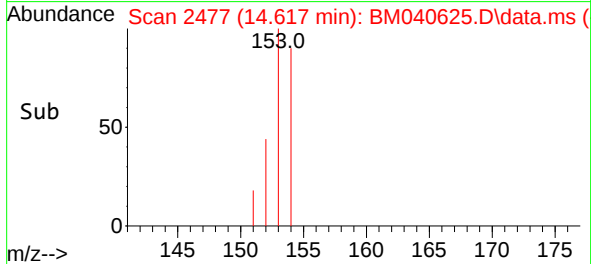
Instrument :  
BNA\_M  
ClientSampleId :  
DCGF8DL



Tgt Ion:153 Resp: 2618  
Ion Ratio Lower Upper  
153 100  
152 54.7 41.0 61.4  
154 86.0 70.8 106.2

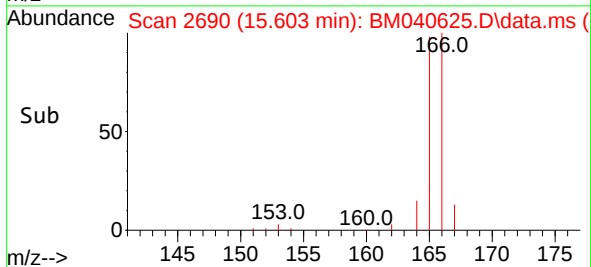
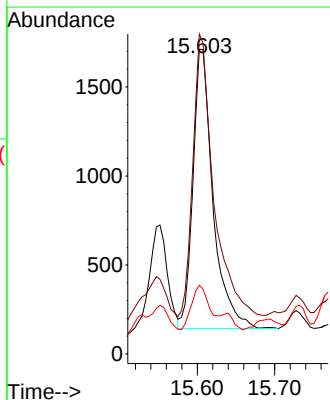
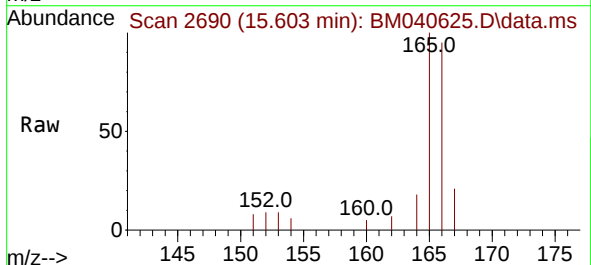
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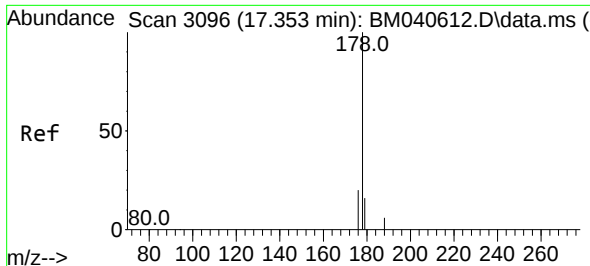
Reviewed By :Yogesh Patel 07/05/2023  
Supervised By :mohammad ahmed 07/05/2023



#12  
Fluorene  
Concen: 0.048 ng/ul  
RT: 15.603 min Scan# 2690  
Delta R.T. -0.015 min  
Lab File: BM040625.D  
Acq: 04 Jul 2023 23:22

Tgt Ion:166 Resp: 2822  
Ion Ratio Lower Upper  
166 100  
165 105.0 79.6 119.4  
167 22.5 11.4 17.0#





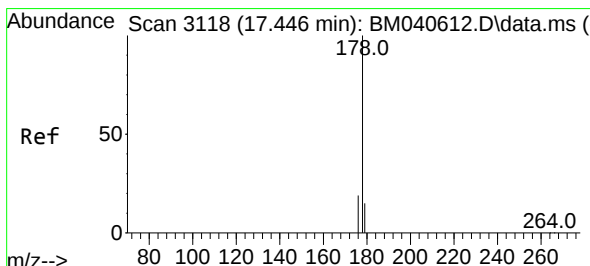
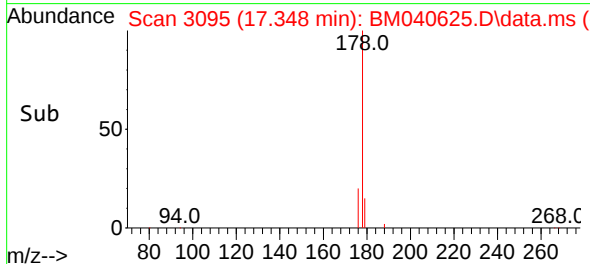
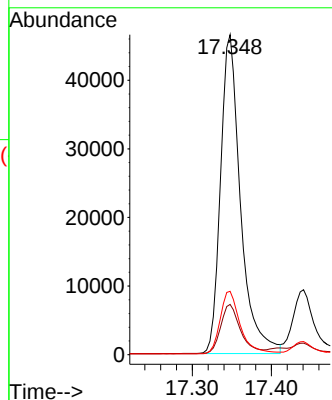
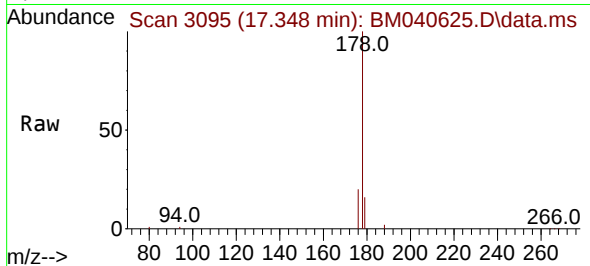
#15  
Phenanthrene  
Concen: 0.936 ng/ul  
RT: 17.348 min Scan# 3096  
Delta R.T. -0.014 min  
Lab File: BM040625.D  
Acq: 04 Jul 2023 23:22

Instrument :  
BNA\_M  
ClientSampleId :  
DCGF8DL

Tgt Ion:178 Resp: 8161  
Ion Ratio Lower Upper  
178 100  
179 15.7 12.8 19.2  
176 19.8 16.4 24.6

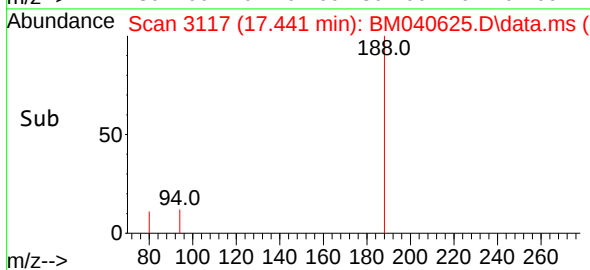
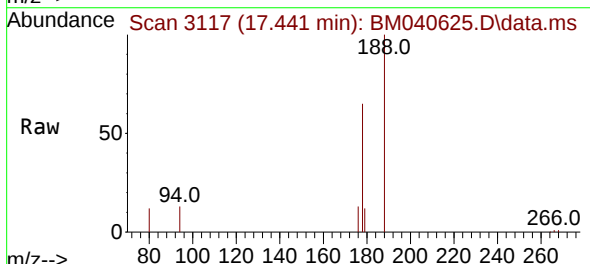
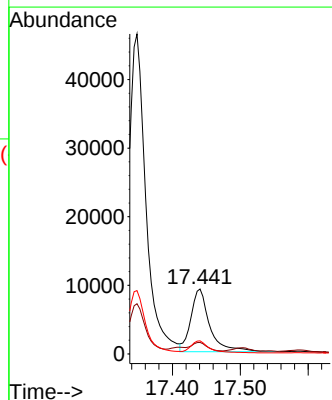
Manual Integrations  
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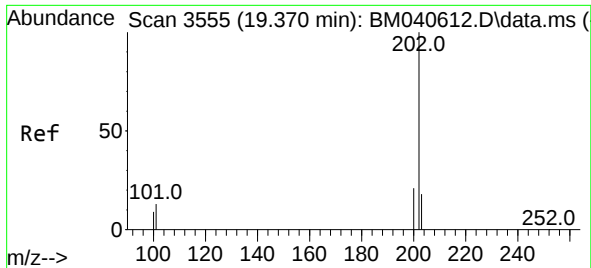
Reviewed By :Yogesh Patel 07/05/2023  
Supervised By :mohammad ahmed 07/05/2023



#16  
Anthracene  
Concen: 0.241 ng/ul  
RT: 17.441 min Scan# 3117  
Delta R.T. -0.014 min  
Lab File: BM040625.D  
Acq: 04 Jul 2023 23:22

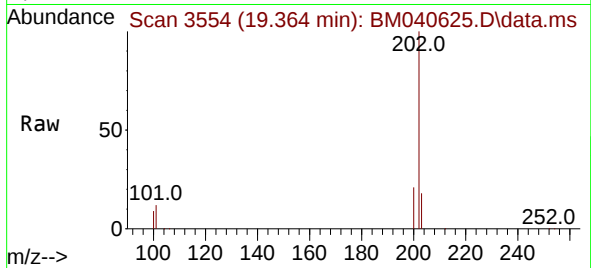
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Ion Ratio Lower Upper  
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179 17.8 12.9 19.3  
176 20.2 15.8 23.6





#19  
Fluoranthene  
Concen: 3.118 ng/ul  
RT: 19.364 min Scan# 3555  
Delta R.T. -0.015 min  
Lab File: BM040625.D  
Acq: 04 Jul 2023 23:22

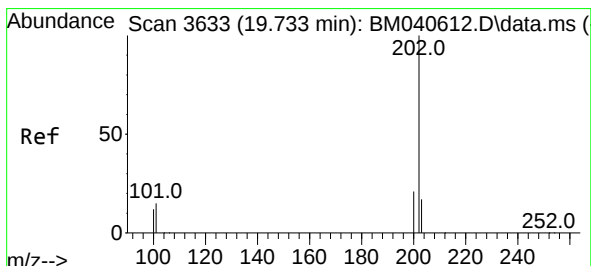
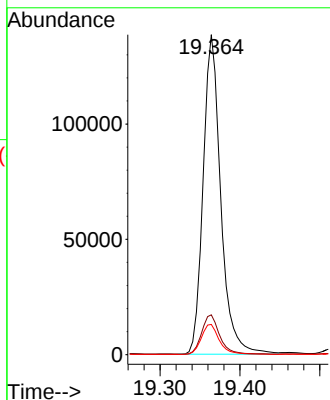
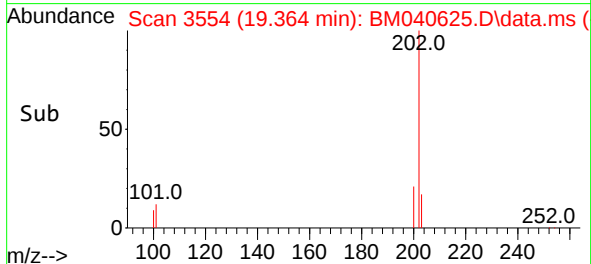
Instrument :  
BNA\_M  
ClientSampleId :  
DCGF8DL



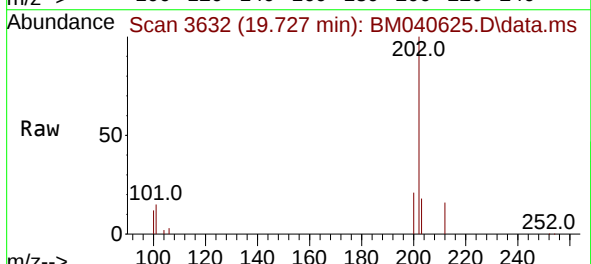
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101 12.5 11.4 17.0  
100 9.4 8.7 13.1

Manual Integrations  
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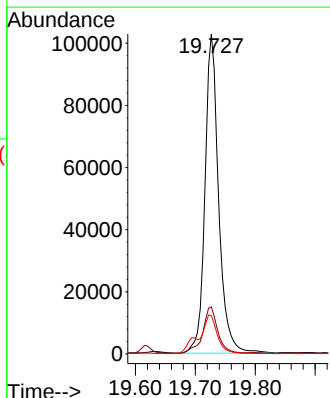
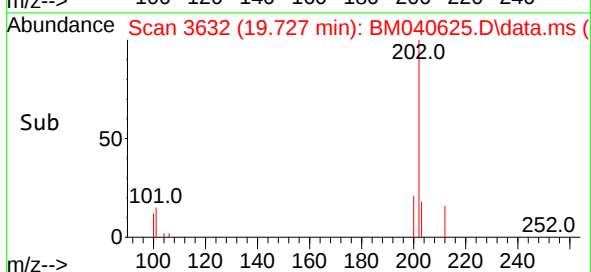
Reviewed By :Yogesh Patel 07/05/2023  
Supervised By :mohammad ahmed 07/05/2023

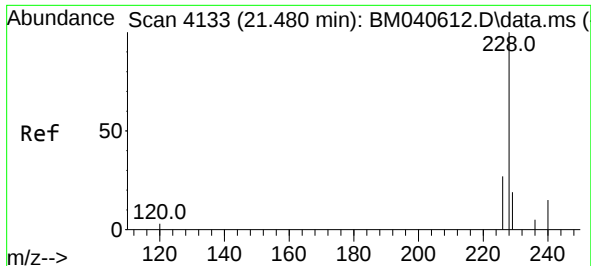


#20  
Pyrene  
Concen: 2.220 ng/ul  
RT: 19.727 min Scan# 3632  
Delta R.T. -0.015 min  
Lab File: BM040625.D  
Acq: 04 Jul 2023 23:22



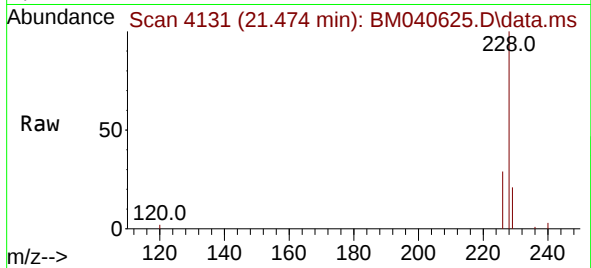
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Ion Ratio Lower Upper  
202 100  
101 14.7 12.6 18.8  
100 12.0 9.8 14.6





#21  
Benzo(a)anthracene  
Concen: 1.647 ng/ul  
RT: 21.474 min Scan# 4133  
Delta R.T. -0.014 min  
Lab File: BM040625.D  
Acq: 04 Jul 2023 23:22

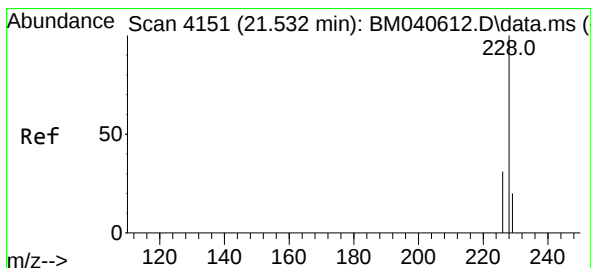
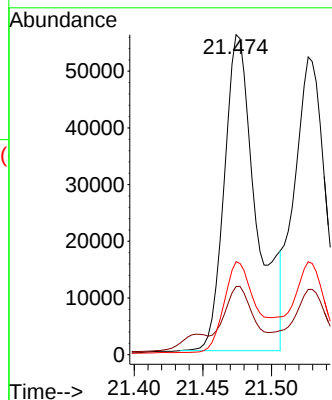
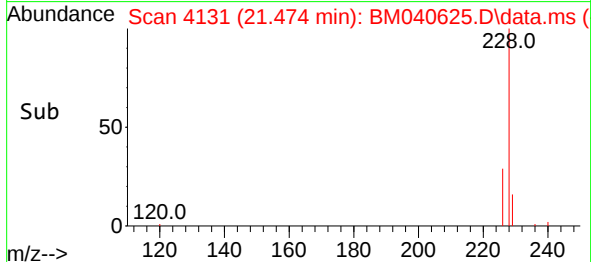
Instrument :  
BNA\_M  
ClientSampleId :  
DCGF8DL



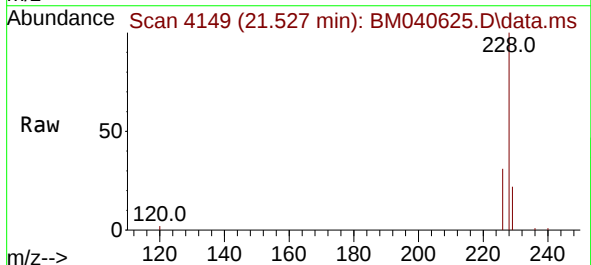
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228 100  
229 21.3 16.0 24.0  
226 29.1 22.3 33.5

Manual Integrations  
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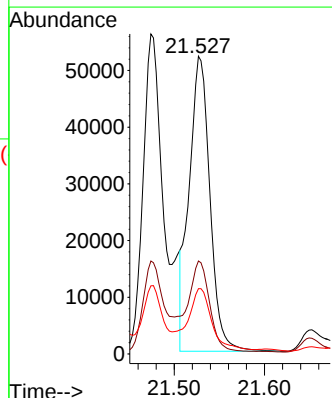
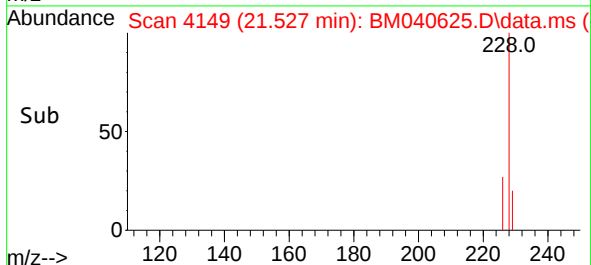
Reviewed By :Yogesh Patel 07/05/2023  
Supervised By :mohammad ahmed 07/05/2023

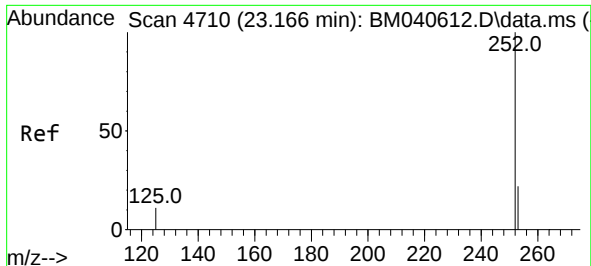


#22  
Chrysene  
Concen: 1.341 ng/ul  
RT: 21.527 min Scan# 4149  
Delta R.T. -0.014 min  
Lab File: BM040625.D  
Acq: 04 Jul 2023 23:22



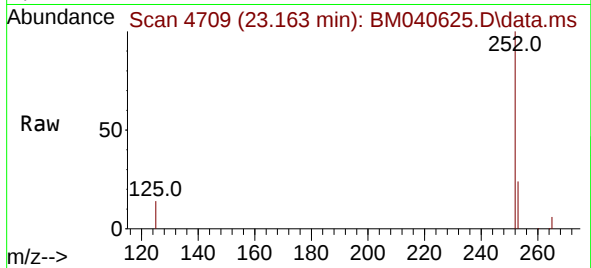
Tgt Ion:228 Resp: 83303  
Ion Ratio Lower Upper  
228 100  
226 31.2 24.9 37.3  
229 22.0 15.8 23.6





#24  
Benzo(b)fluoranthene  
Concen: 2.303 ng/ul  
RT: 23.163 min Scan# 4710  
Delta R.T. -0.017 min  
Lab File: BM040625.D  
Acq: 04 Jul 2023 23:22

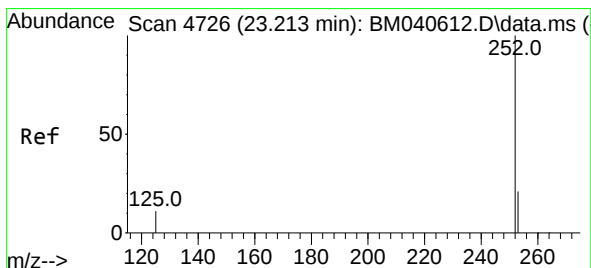
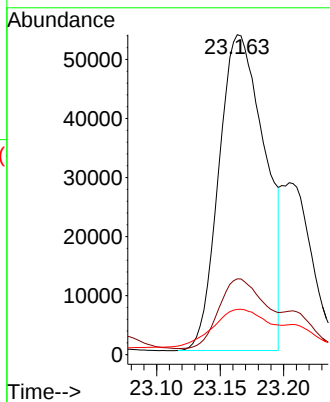
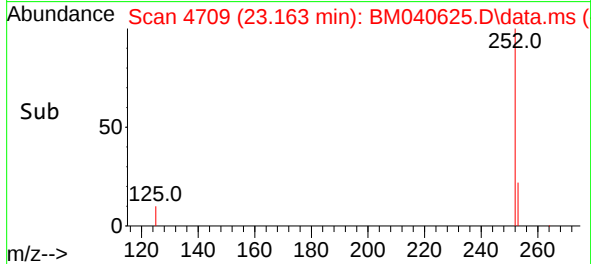
Instrument :  
BNA\_M  
ClientSampleId :  
DCGF8DL



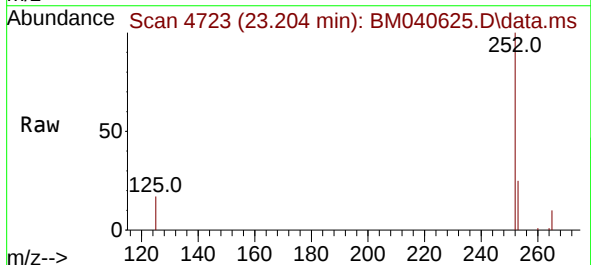
Tgt Ion:252 Resp: 13465  
Ion Ratio Lower Upper  
252 100  
253 23.7 0.0 52.8  
125 14.1 0.0 43.0

Manual Integrations  
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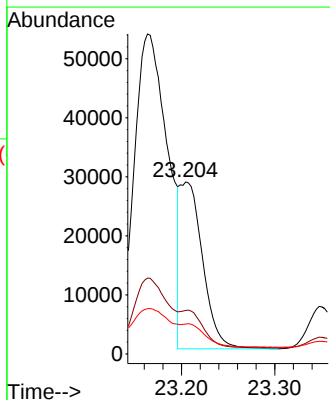
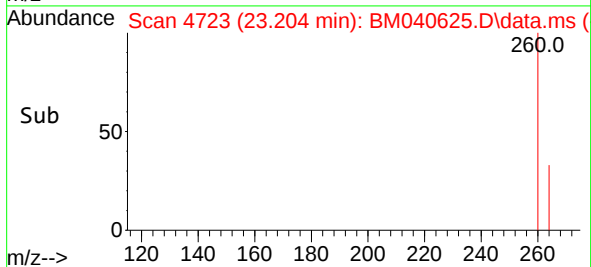
Reviewed By :Yogesh Patel 07/05/2023  
Supervised By :mohammad ahmed 07/05/2023

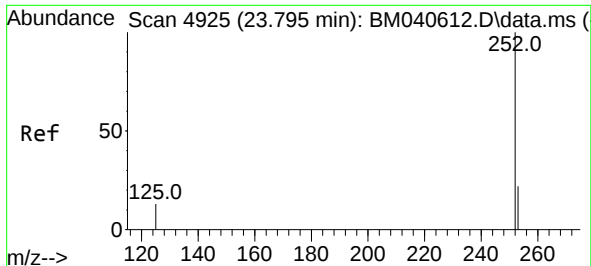


#25  
Benzo(k)fluoranthene  
Concen: 0.833 ng/ul m  
RT: 23.204 min Scan# 4723  
Delta R.T. -0.020 min  
Lab File: BM040625.D  
Acq: 04 Jul 2023 23:22



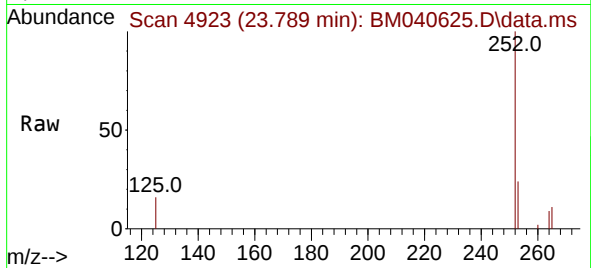
Tgt Ion:252 Resp: 47974  
Ion Ratio Lower Upper  
252 100  
253 25.3 21.2 31.8  
125 17.4 16.4 24.6





#26  
Benzo(a)pyrene  
Concen: 1.503 ng/ul  
RT: 23.789 min Scan# 4923  
Delta R.T. -0.014 min  
Lab File: BM040625.D  
Acq: 04 Jul 2023 23:22

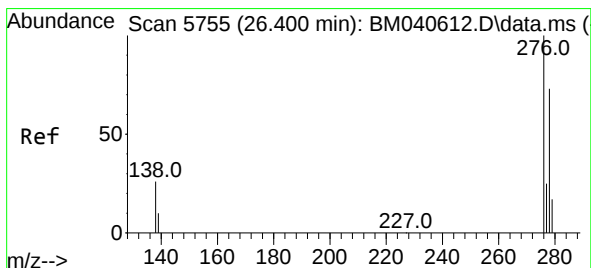
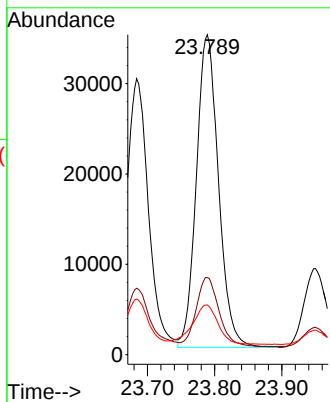
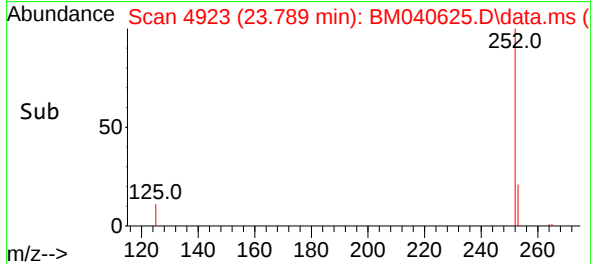
Instrument :  
BNA\_M  
ClientSampleId :  
DCGF8DL



Tgt Ion:252 Resp: 79160  
Ion Ratio Lower Upper  
252 100  
253 24.1 22.9 34.3  
125 15.6 21.0 31.4

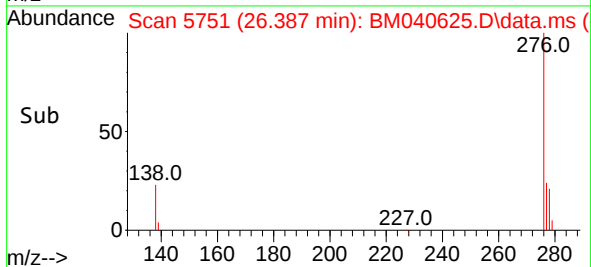
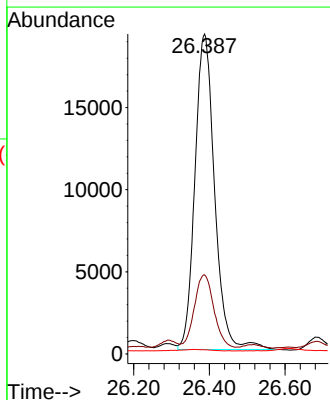
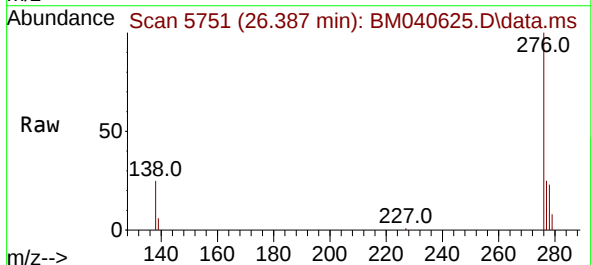
Manual Integrations  
APPROVED

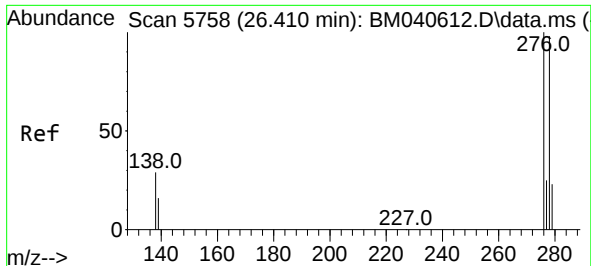
Reviewed By :Yogesh Patel 07/05/2023  
Supervised By :mohammad ahmed 07/05/2023



#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.946 ng/ul  
RT: 26.387 min Scan# 5751  
Delta R.T. -0.030 min  
Lab File: BM040625.D  
Acq: 04 Jul 2023 23:22

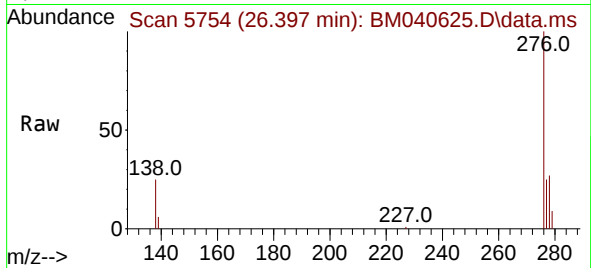
Tgt Ion:276 Resp: 69400  
Ion Ratio Lower Upper  
276 100  
138 22.9 24.5 36.7#  
227 0.0 0.1 0.1#





#28  
Dibenzo(a,h)anthracene  
Concen: 0.291 ng/ul  
RT: 26.397 min Scan# 51  
Delta R.T. -0.033 min  
Lab File: BM040625.D  
Acq: 04 Jul 2023 23:22

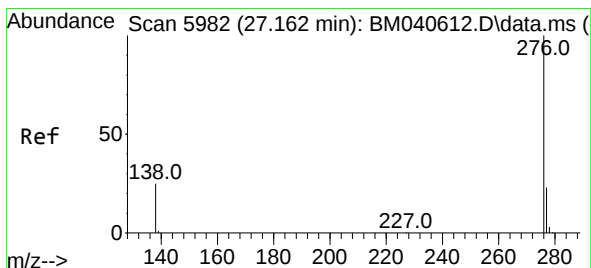
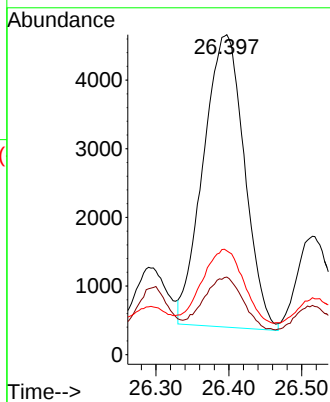
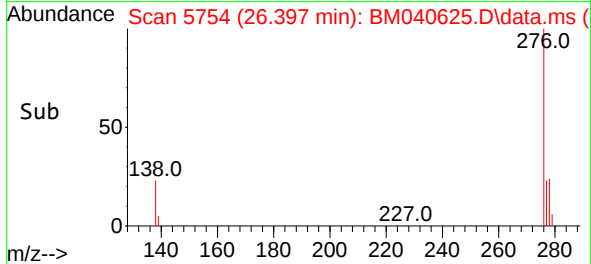
Instrument :  
BNA\_M  
ClientSampleId :  
DCGF8DL



Tgt Ion:278 Resp: 1669  
Ion Ratio Lower Upper  
278 100  
139 24.3 17.9 26.9  
279 32.5 22.0 33.0

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 07/05/2023  
Supervised By :mohammad ahmed 07/05/2023



#29  
Benzo(g,h,i)perylene  
Concen: 0.981 ng/ul  
RT: 27.159 min Scan# 5981  
Delta R.T. -0.023 min  
Lab File: BM040625.D  
Acq: 04 Jul 2023 23:22

Tgt Ion:276 Resp: 63039  
Ion Ratio Lower Upper  
276 100  
138 25.8 23.0 34.6  
277 24.7 20.3 30.5

