

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM070123\  
 Data File : BM040561.D  
 Acq On : 03 Jul 2023 04:42  
 Operator : MA/JU  
 Sample : 03245-06  
 Misc :  
 ALS Vial : 66 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 DCGG4

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 07/03/2023  
 Supervised By :mohammad ahmed 07/03/2023

Quant Time: Jul 03 06:50:53 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 : Sat Jul 01 03:00:05 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|--------|--------|----------|
| -----                       |        |      |          |        |        |          |
| Internal Standards          |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.923  | 152  | 7283     | 0.400  | ng/ul  | -0.01    |
| 4) Naphthalene-d8           | 10.733 | 136  | 26759    | 0.400  | ng/ul  | #-0.01   |
| 9) Acenaphthene-d10         | 14.567 | 164  | 15361    | 0.400  | ng/ul  | -0.01    |
| 13) Phenanthrene-d10        | 17.318 | 188  | 28555    | 0.400  | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.505 | 240  | 16344    | 0.400  | ng/ul  | # 0.00   |
| 23) Perylene-d12            | 23.916 | 264  | 15691    | 0.400  | ng/ul  | 0.00     |
|                             |        |      |          |        |        |          |
| System Monitoring Compounds |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8           | 3.316  | 96   | 50632    | 4.426  | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.322 | 152  | 12685    | 0.338  | ng/ul  | -0.01    |
| 18) Fluoranthene-d10        | 19.346 | 212  | 21312    | 0.407  | ng/ul  | -0.01    |
|                             |        |      |          |        |        |          |
| Target Compounds            |        |      |          |        | Qvalue |          |
| 5) Naphthalene              | 10.782 | 128  | 5088     | 0.069  | ng/ul# | 87       |
| 7) 2-Methylnaphthalene      | 12.393 | 142  | 4584     | 0.106  | ng/ul  | 97       |
| 8) 1-Methylnaphthalene      | 12.613 | 142  | 4969     | 0.115  | ng/ul  | 98       |
| 10) Acenaphthylene          | 14.289 | 152  | 14503    | 0.211  | ng/ul  | 96       |
| 11) Acenaphthene            | 14.631 | 153  | 21141    | 0.365  | ng/ul  | 99       |
| 12) Fluorene                | 15.617 | 166  | 27210    | 0.440  | ng/ul  | 99       |
| 15) Phenanthrene            | 17.356 | 178  | 701117   | 7.905  | ng/ul  | 98       |
| 16) Anthracene              | 17.449 | 178  | 50961    | 0.684  | ng/ul  | 97       |
| 19) Fluoranthene            | 19.374 | 202  | 1118120  | 16.105 | ng/ul  | 96       |
| 20) Pyrene                  | 19.741 | 202  | 728207   | 9.784  | ng/ul  | 96       |
| 21) Benzo(a)anthracene      | 21.484 | 228  | 224465   | 4.060  | ng/ul  | 98       |
| 22) Chrysene                | 21.540 | 228  | 312307   | 4.952  | ng/ul  | 97       |
| 24) Benzo(b)fluoranthene    | 23.179 | 252  | 361405   | 5.952  | ng/ul  | 90       |
| 25) Benzo(k)fluoranthene    | 23.220 | 252  | 131712m  | 2.201  | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.808 | 252  | 165448   | 3.025  | ng/ul# | 86       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.419 | 276  | 141714   | 1.860  | ng/ul# | 85       |
| 28) Dibenzo(a,h)anthracene  | 26.429 | 278  | 37703    | 0.632  | ng/ul  | 90       |
| 29) Benzo(g,h,i)perylene    | 27.194 | 276  | 127864   | 1.915  | ng/ul  | 98       |
| -----                       |        |      |          |        |        |          |

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

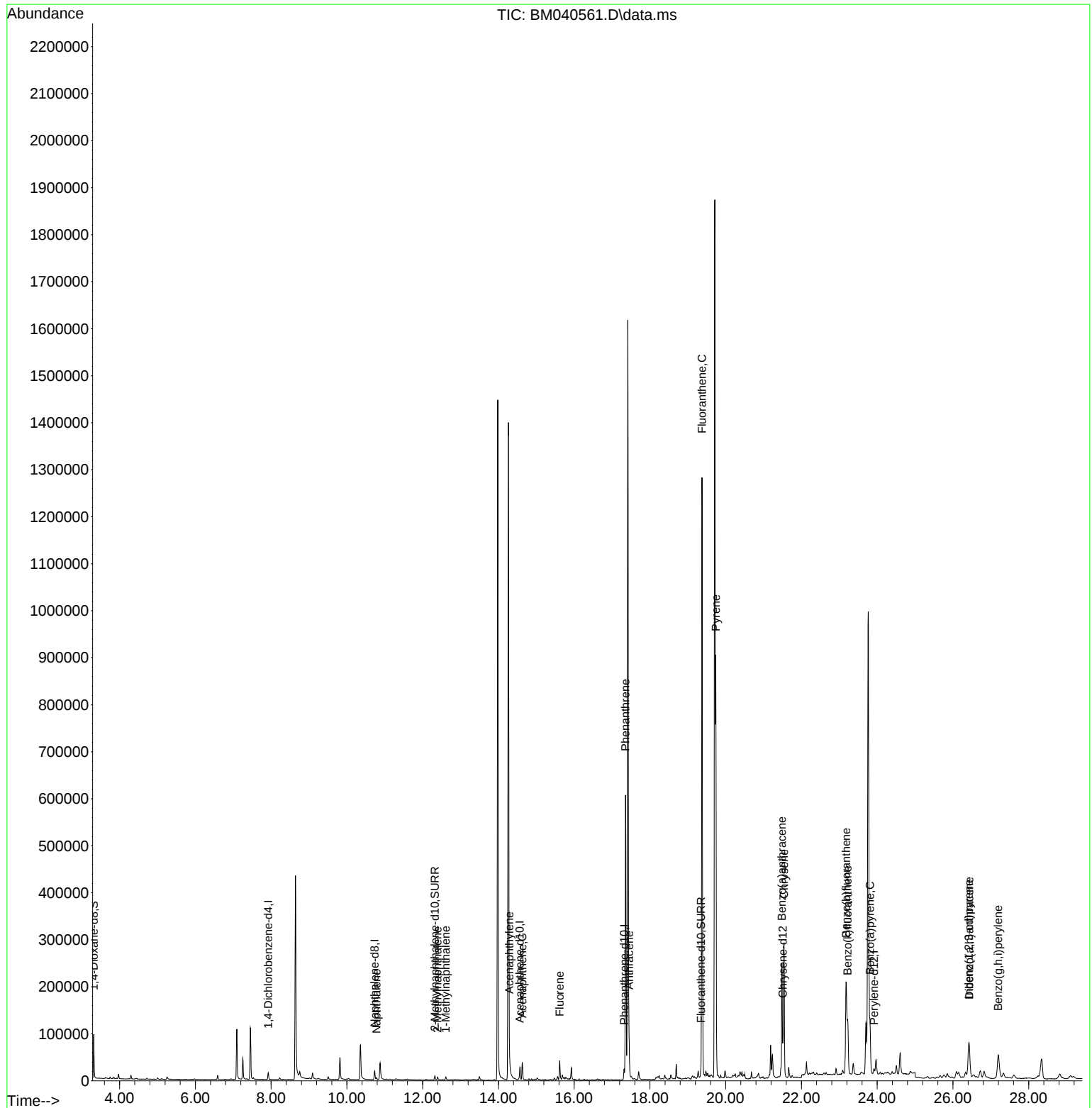
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM070123\  
Data File : BM040561.D  
Acq On : 03 Jul 2023 04:42  
Operator : MA/JU  
Sample : 03245-06  
Misc :  
ALS Vial : 66 Sample Multiplier: 1

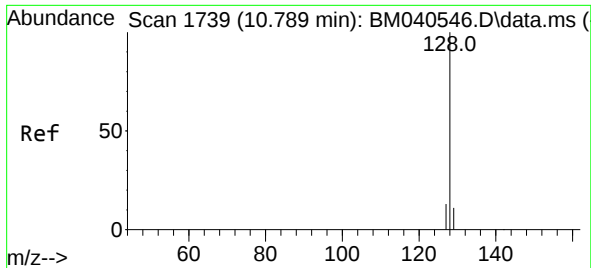
Instrument :  
BNA\_M  
ClientSampleId :  
DCGG4

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 07/03/2023  
Supervised By :mohammad ahmed 07/03/2023

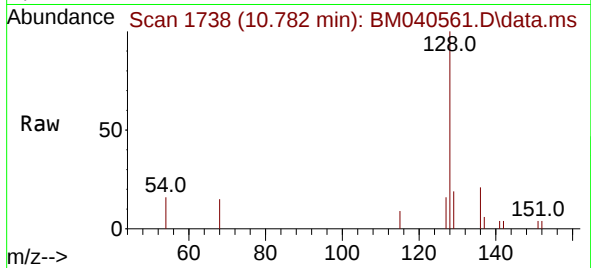
Quant Time: Jul 03 06:50:53 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM062223.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Jul 01 03:00:05 2023  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.069 ng/ul  
RT: 10.782 min Scan# 1738  
Delta R.T. -0.012 min  
Lab File: BM040561.D  
Acq: 03 Jul 2023 04:42

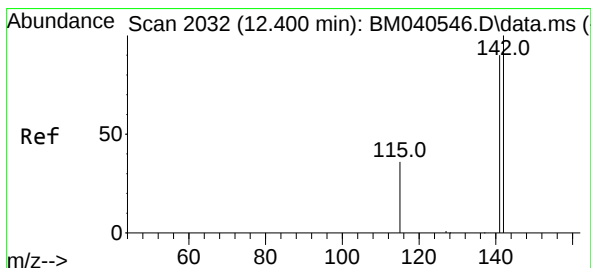
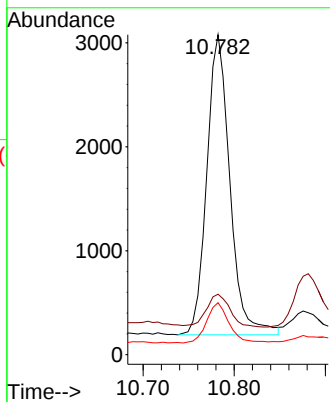
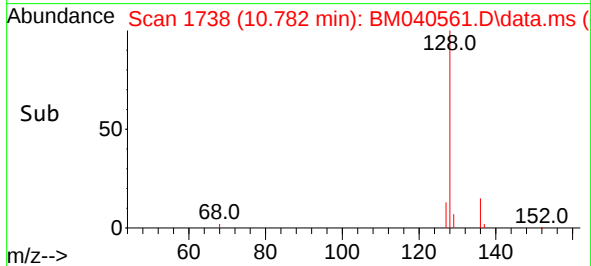
Instrument :  
BNA\_M  
ClientSampleId :  
DCGG4



Tgt Ion:128 Resp: 5084  
Ion Ratio Lower Upper  
128 100  
129 18.9 9.2 13.8  
127 16.3 10.6 15.8

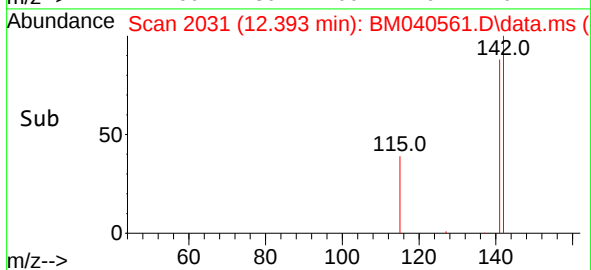
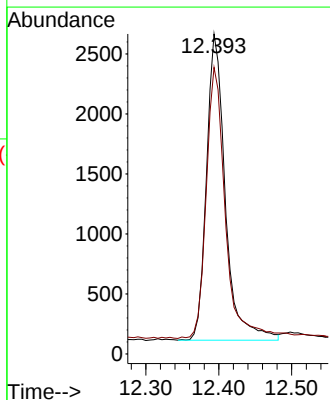
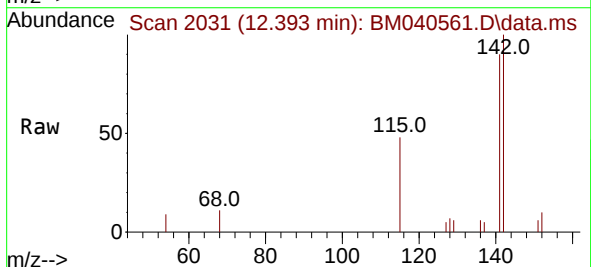
Manual Integrations  
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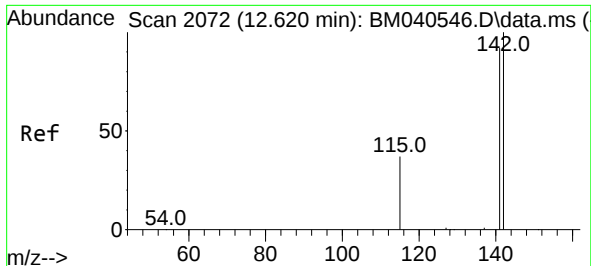
Reviewed By :Yogesh Patel 07/03/2023  
Supervised By :mohammad ahmed 07/03/2023



#7  
2-Methylnaphthalene  
Concen: 0.106 ng/ul  
RT: 12.393 min Scan# 2031  
Delta R.T. -0.012 min  
Lab File: BM040561.D  
Acq: 03 Jul 2023 04:42

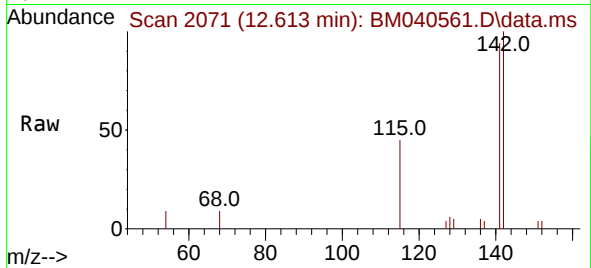
Tgt Ion:142 Resp: 4584  
Ion Ratio Lower Upper  
142 100  
141 92.4 71.9 107.9





#8  
1-Methylnaphthalene  
Concen: 0.115 ng/ul  
RT: 12.613 min Scan# 2071  
Delta R.T. -0.012 min  
Lab File: BM040561.D  
Acq: 03 Jul 2023 04:42

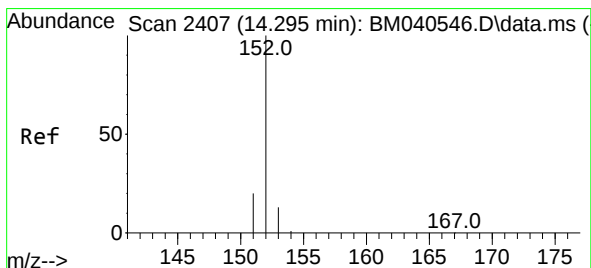
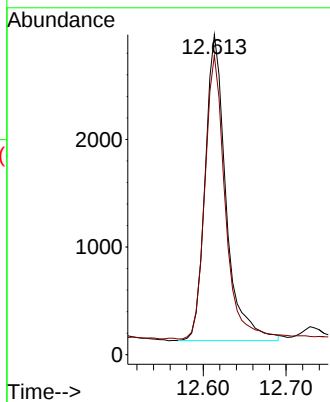
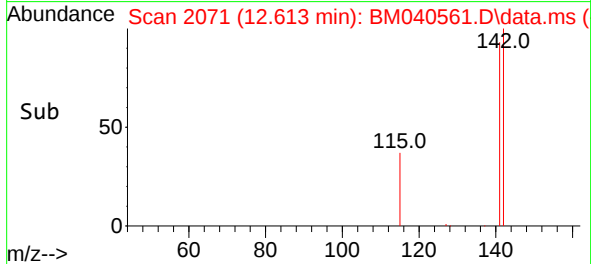
Instrument :  
BNA\_M  
ClientSampleId :  
DCGG4



Tgt Ion:142 Resp: 4969  
Ion Ratio Lower Upper  
142 100  
141 90.0 73.7 110.5

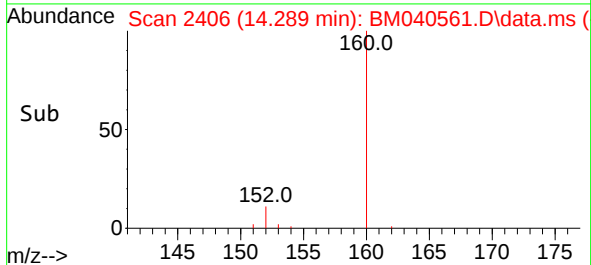
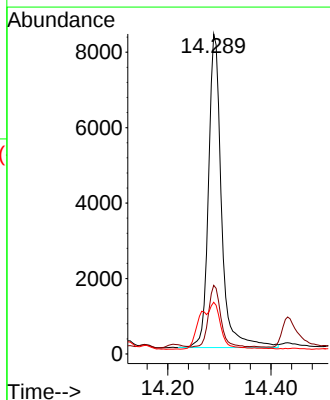
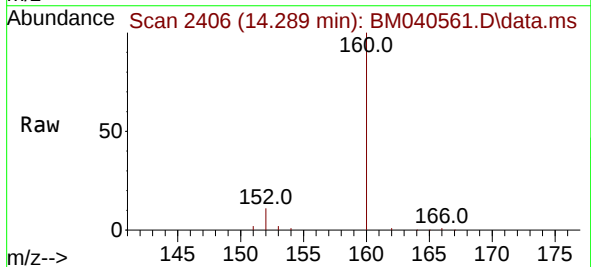
Manual Integrations  
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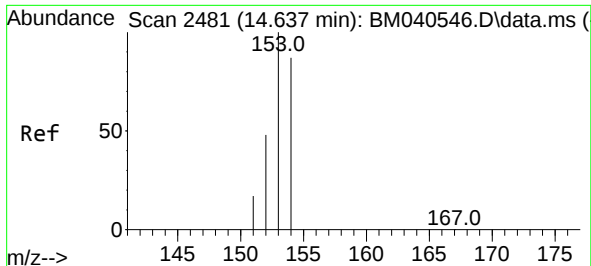
Reviewed By :Yogesh Patel 07/03/2023  
Supervised By :mohammad ahmed 07/03/2023



#10  
Acenaphthylene  
Concen: 0.211 ng/ul  
RT: 14.289 min Scan# 2406  
Delta R.T. -0.010 min  
Lab File: BM040561.D  
Acq: 03 Jul 2023 04:42

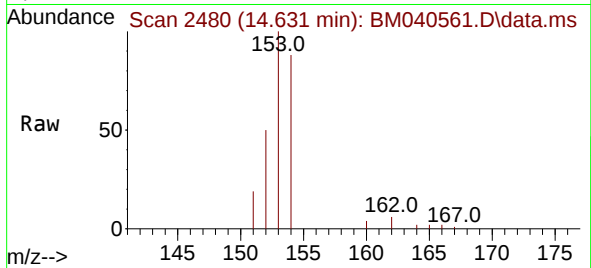
Tgt Ion:152 Resp: 14503  
Ion Ratio Lower Upper  
152 100  
151 21.4 16.2 24.2  
153 16.1 10.9 16.3





#11  
Acenaphthene  
Concen: 0.365 ng/u1  
RT: 14.631 min Scan# 2481  
Delta R.T. -0.010 min  
Lab File: BM040561.D  
Acq: 03 Jul 2023 04:42

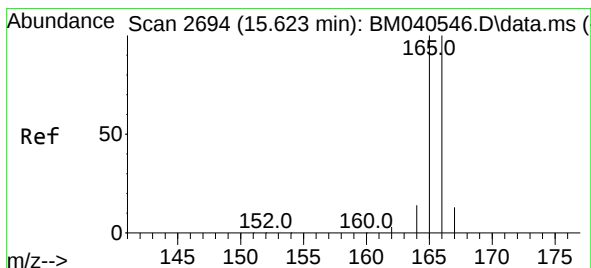
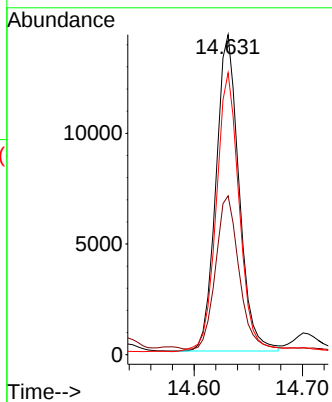
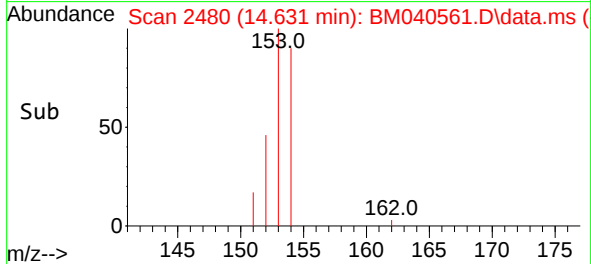
Instrument :  
BNA\_M  
ClientSampleId :  
DCGG4



Tgt Ion:153 Resp: 2114  
Ion Ratio Lower Upper  
153 100  
152 49.7 41.0 61.4  
154 88.1 70.8 106.2

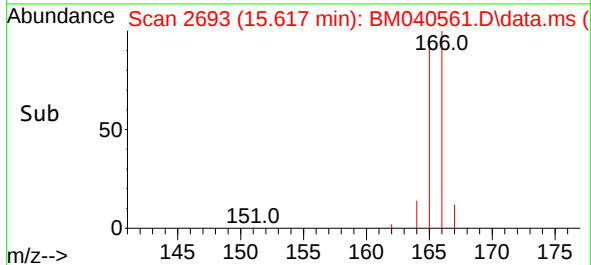
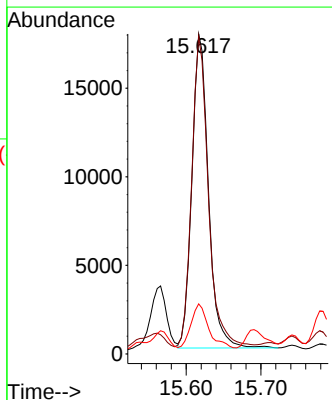
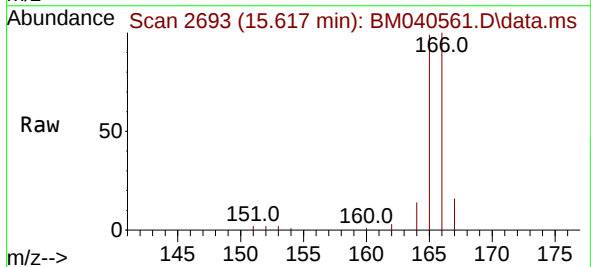
Manual Integrations  
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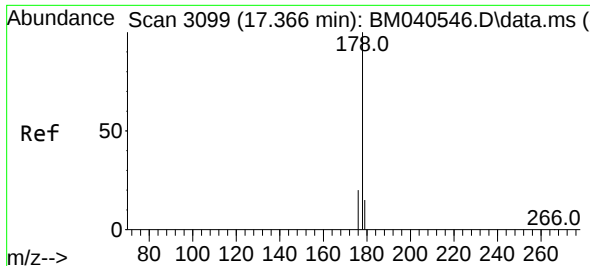
Reviewed By :Yogesh Patel 07/03/2023  
Supervised By :mohammad ahmed 07/03/2023



#12  
Fluorene  
Concen: 0.440 ng/u1  
RT: 15.617 min Scan# 2693  
Delta R.T. -0.015 min  
Lab File: BM040561.D  
Acq: 03 Jul 2023 04:42

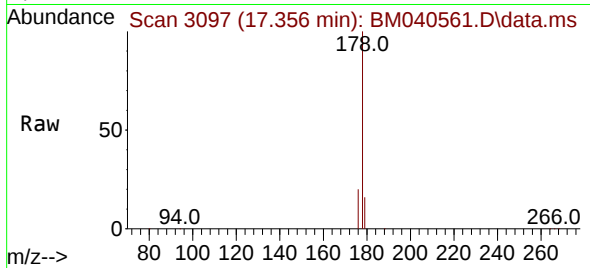
Tgt Ion:166 Resp: 27210  
Ion Ratio Lower Upper  
166 100  
165 99.3 79.6 119.4  
167 15.6 11.4 17.0





#15  
Phenanthrene  
Concen: 7.905 ng/u1  
RT: 17.356 min Scan# 3097  
Delta R.T. -0.014 min  
Lab File: BM040561.D  
Acq: 03 Jul 2023 04:42

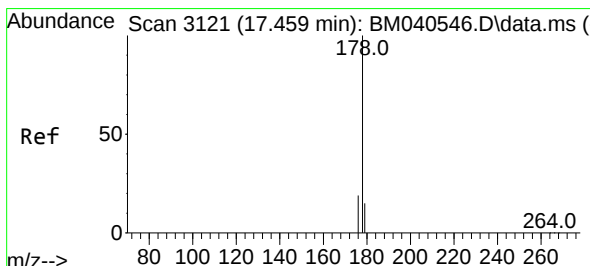
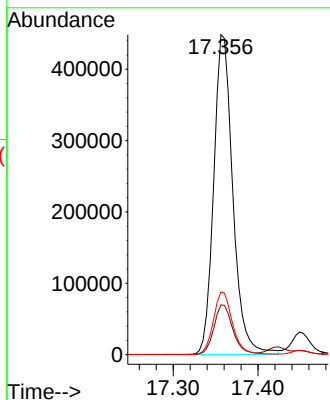
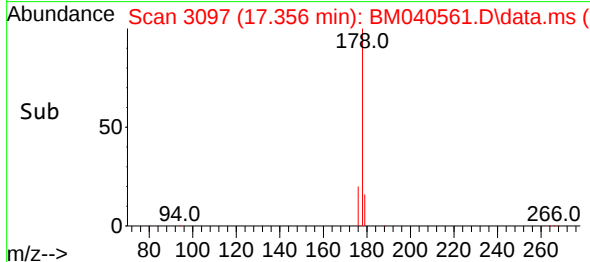
Instrument :  
BNA\_M  
ClientSampleId :  
DCGG4



Tgt Ion:178 Resp: 70111  
Ion Ratio Lower Upper  
178 100  
179 15.6 12.8 19.2  
176 19.6 16.4 24.6

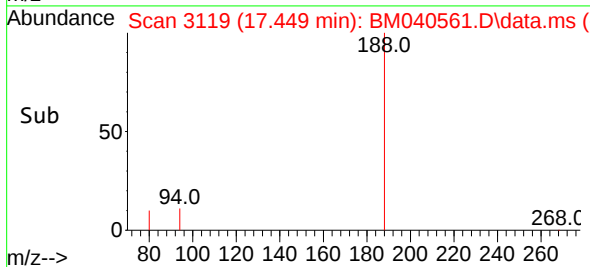
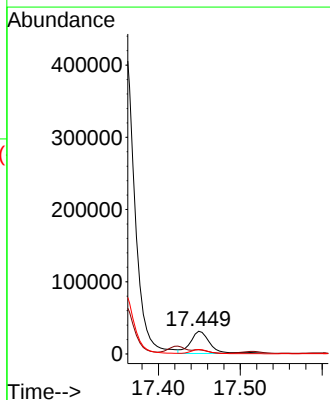
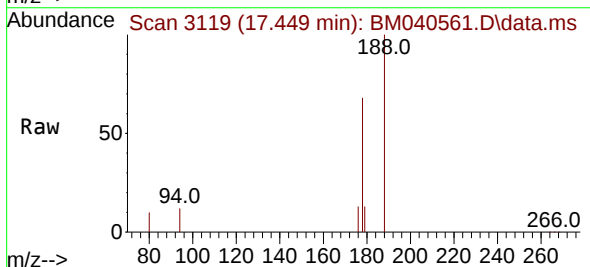
Manual Integrations  
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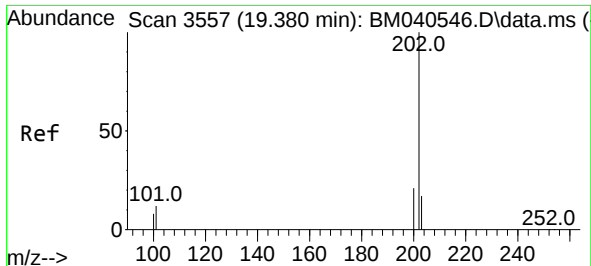
Reviewed By :Yogesh Patel 07/03/2023  
Supervised By :mohammad ahmed 07/03/2023



#16  
Anthracene  
Concen: 0.684 ng/u1  
RT: 17.449 min Scan# 3119  
Delta R.T. -0.014 min  
Lab File: BM040561.D  
Acq: 03 Jul 2023 04:42

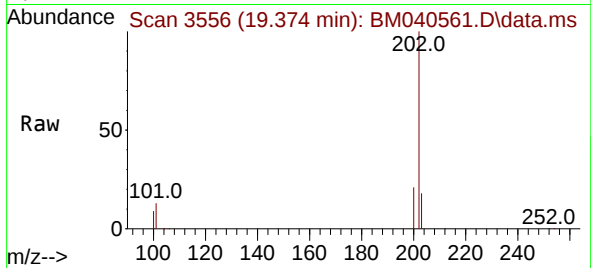
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Ion Ratio Lower Upper  
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179 18.6 12.9 19.3  
176 19.6 15.8 23.6





#19  
Fluoranthene  
Concen: 16.105 ng/u1  
RT: 19.374 min Scan# 3557  
Delta R.T. -0.011 min  
Lab File: BM040561.D  
Acq: 03 Jul 2023 04:42

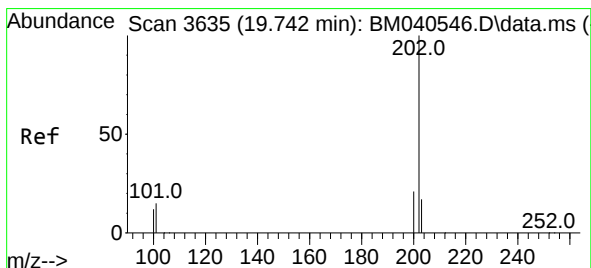
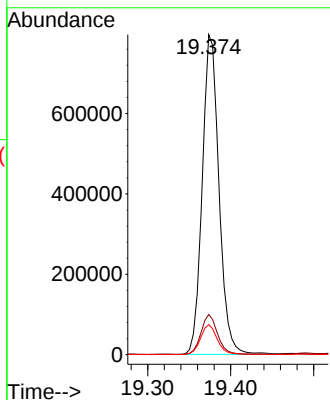
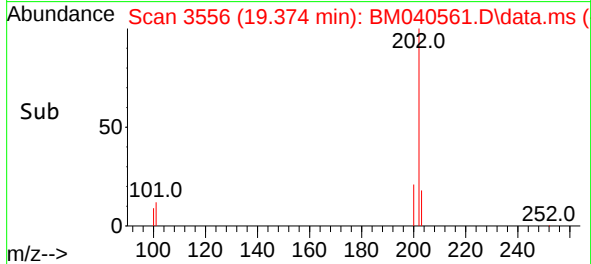
Instrument :  
BNA\_M  
ClientSampleId :  
DCGG4



Tgt Ion:202 Resp: 1118120  
Ion Ratio Lower Upper  
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101 12.6 11.4 17.0  
100 9.4 8.7 13.1

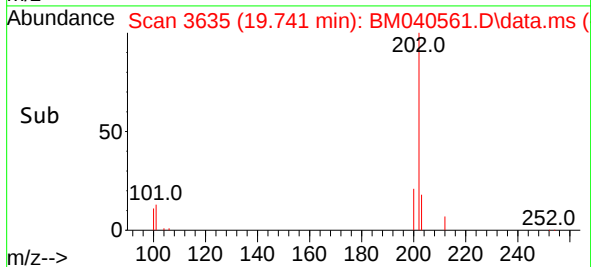
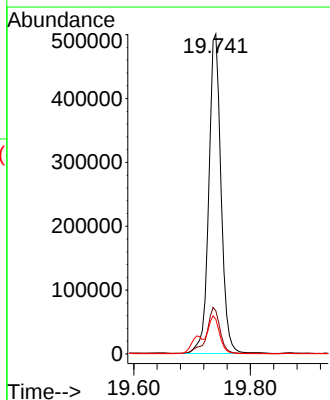
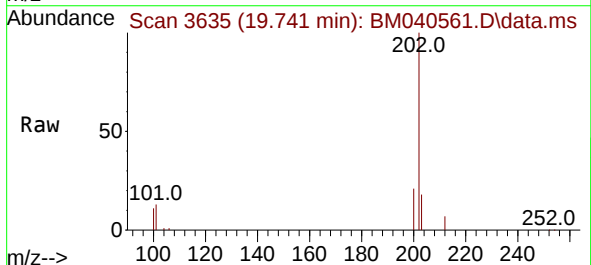
Manual Integrations  
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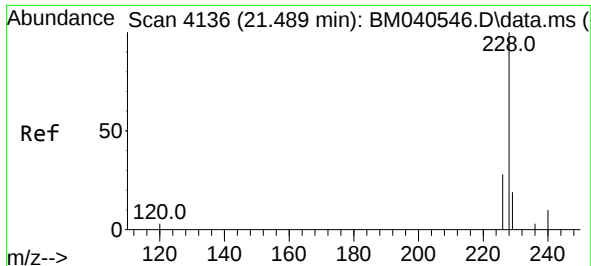
Reviewed By :Yogesh Patel 07/03/2023  
Supervised By :mohammad ahmed 07/03/2023



#20  
Pyrene  
Concen: 9.784 ng/u1  
RT: 19.741 min Scan# 3635  
Delta R.T. -0.006 min  
Lab File: BM040561.D  
Acq: 03 Jul 2023 04:42

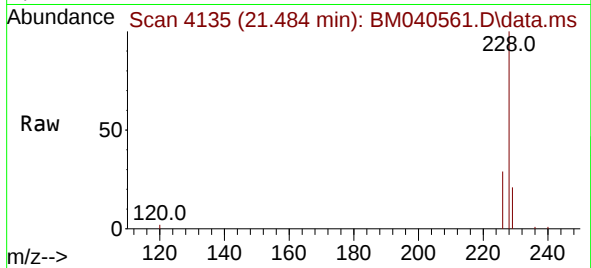
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Ion Ratio Lower Upper  
202 100  
101 13.5 12.6 18.8  
100 10.8 9.8 14.6





#21  
Benzo(a)anthracene  
Concen: 4.060 ng/ul  
RT: 21.484 min Scan# 4135  
Delta R.T. -0.007 min  
Lab File: BM040561.D  
Acq: 03 Jul 2023 04:42

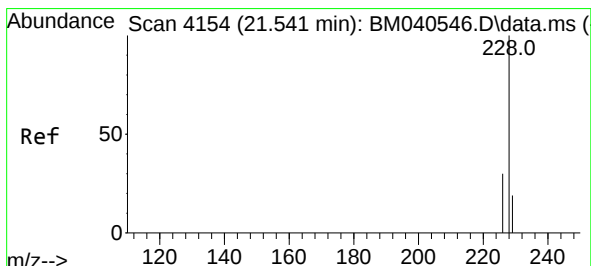
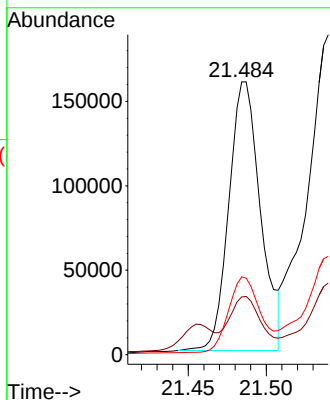
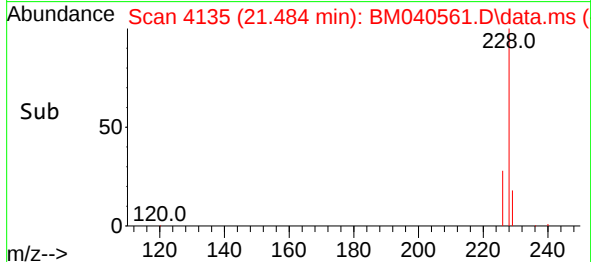
Instrument :  
BNA\_M  
ClientSampleId :  
DCGG4



Tgt Ion:228 Resp: 224465  
Ion Ratio Lower Upper  
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229 21.2 16.0 24.0  
226 28.5 22.3 33.5

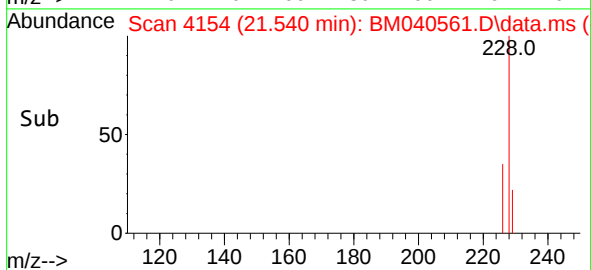
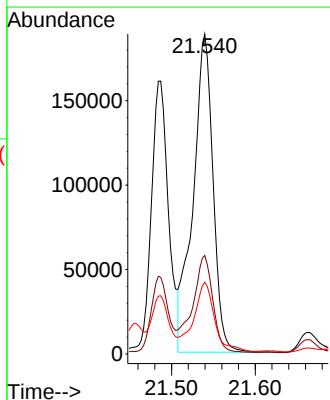
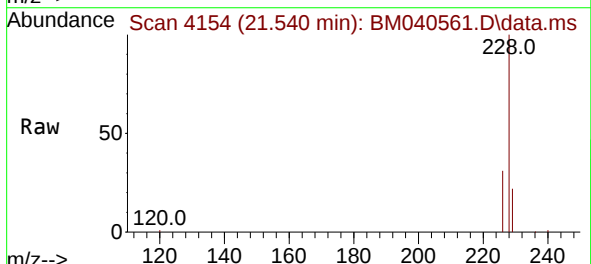
Manual Integrations  
APPROVED

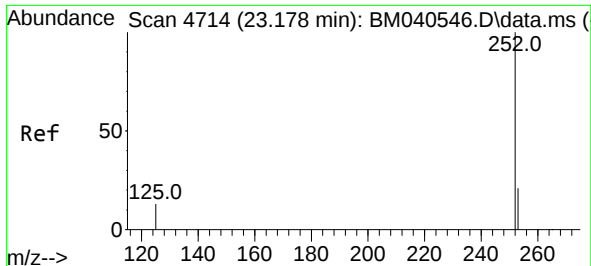
Reviewed By :Yogesh Patel 07/03/2023  
Supervised By :mohammad ahmed 07/03/2023



#22  
Chrysene  
Concen: 4.952 ng/ul  
RT: 21.540 min Scan# 4154  
Delta R.T. -0.004 min  
Lab File: BM040561.D  
Acq: 03 Jul 2023 04:42

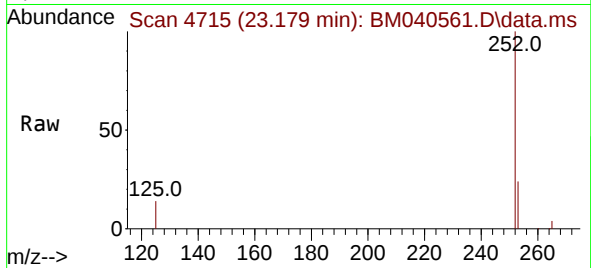
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Ion Ratio Lower Upper  
228 100  
226 30.8 24.9 37.3  
229 22.4 15.8 23.6





#24  
Benzo(b)fluoranthene  
Concen: 5.952 ng/ul  
RT: 23.179 min Scan# 4715  
Delta R.T. -0.001 min  
Lab File: BM040561.D  
Acq: 03 Jul 2023 04:42

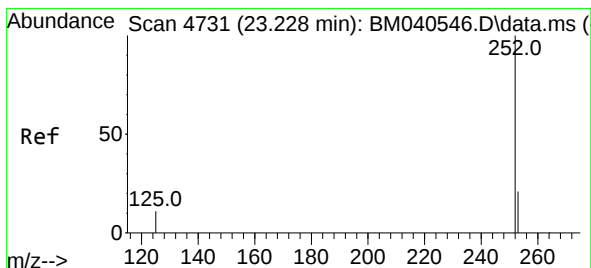
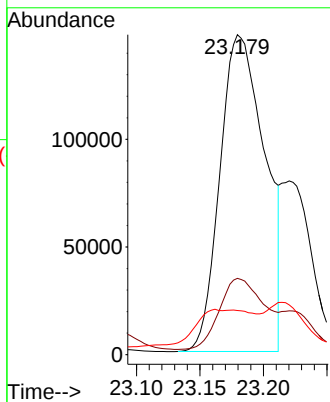
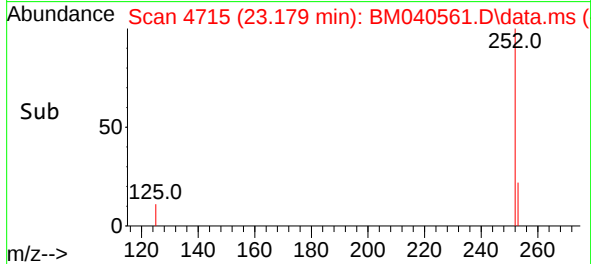
Instrument :  
BNA\_M  
ClientSampleId :  
DCGG4



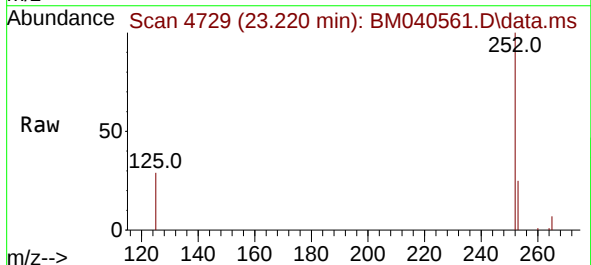
Tgt Ion:252 Resp: 361409  
Ion Ratio Lower Upper  
252 100  
253 23.8 0.0 52.8  
125 13.8 0.0 43.0

Manual Integrations  
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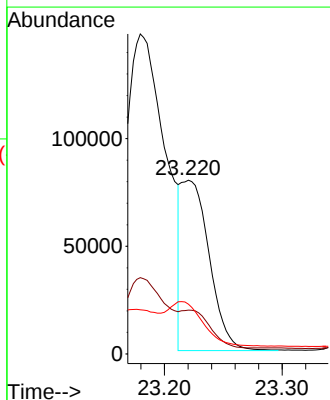
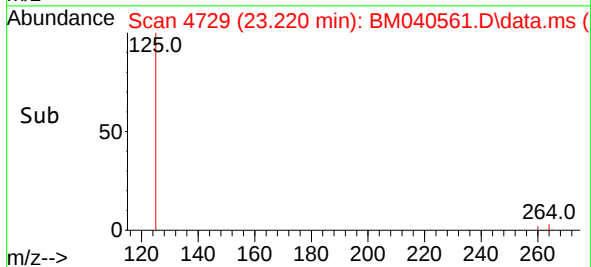
Reviewed By :Yogesh Patel 07/03/2023  
Supervised By :mohammad ahmed 07/03/2023

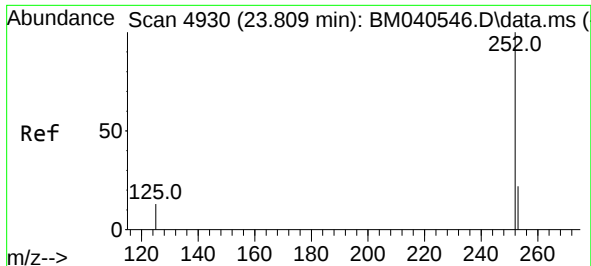


#25  
Benzo(k)fluoranthene  
Concen: 2.201 ng/ul m  
RT: 23.220 min Scan# 4729  
Delta R.T. -0.007 min  
Lab File: BM040561.D  
Acq: 03 Jul 2023 04:42



Tgt Ion:252 Resp: 131712  
Ion Ratio Lower Upper  
252 100  
253 25.2 21.2 31.8  
125 28.6 16.4 24.6#





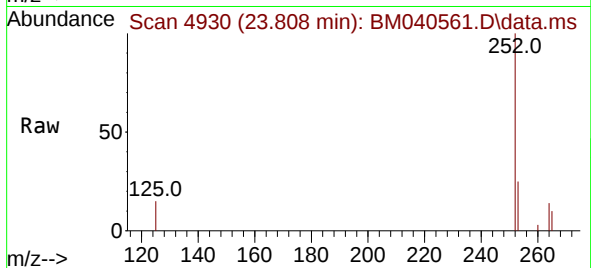
#26  
Benzo(a)pyrene  
Concen: 3.025 ng/ul  
RT: 23.808 min Scan# 4930  
Delta R.T. -0.004 min  
Lab File: BM040561.D  
Acq: 03 Jul 2023 04:42

Instrument :

BNA\_M

ClientSampleId :

DCGG4



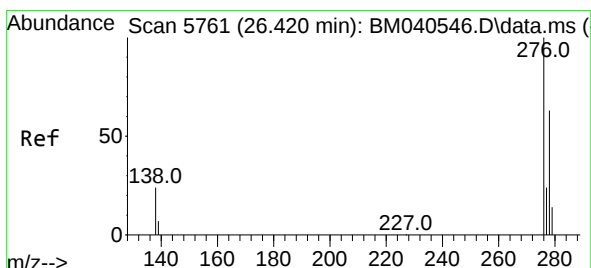
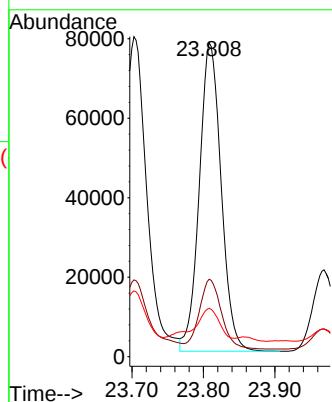
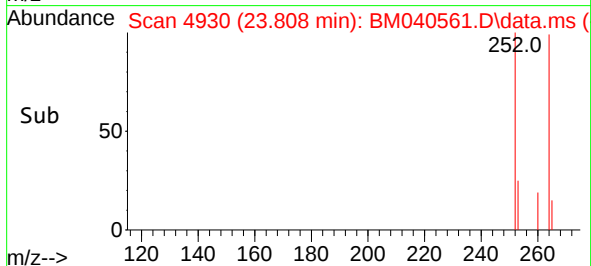
Tgt Ion:252 Resp: 165448  
Ion Ratio Lower Upper  
252 100  
253 24.7 22.9 34.3  
125 15.4 21.0 31.4

Manual Integrations

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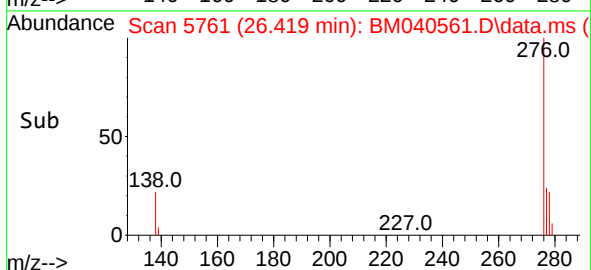
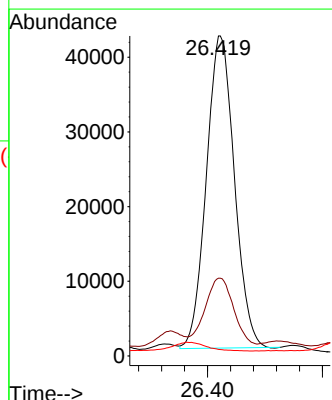
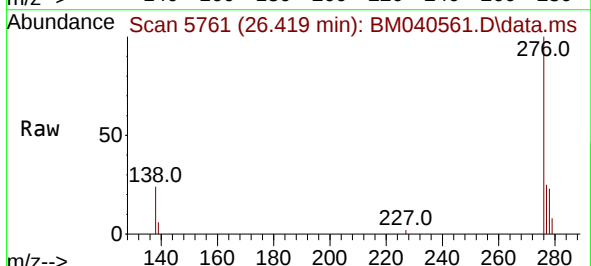
Reviewed By :Yogesh Patel 07/03/2023

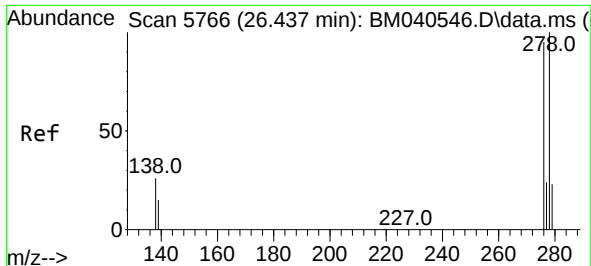
Supervised By :mohammad ahmed 07/03/2023



#27  
Indeno(1,2,3-cd)pyrene  
Concen: 1.860 ng/ul  
RT: 26.419 min Scan# 5761  
Delta R.T. -0.001 min  
Lab File: BM040561.D  
Acq: 03 Jul 2023 04:42

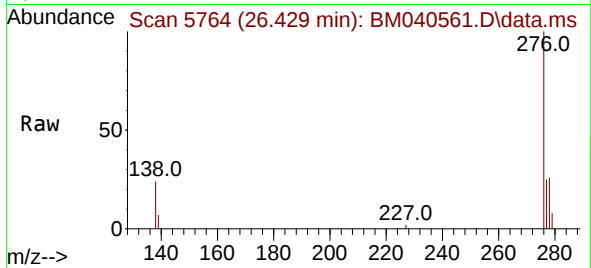
Tgt Ion:276 Resp: 141714  
Ion Ratio Lower Upper  
276 100  
138 22.2 24.5 36.7#  
227 0.0 0.1 0.1#





#28  
Dibenzo(a,h)anthracene  
Concen: 0.632 ng/ul  
RT: 26.429 min Scan# 5766  
Delta R.T. -0.008 min  
Lab File: BM040561.D  
Acq: 03 Jul 2023 04:42

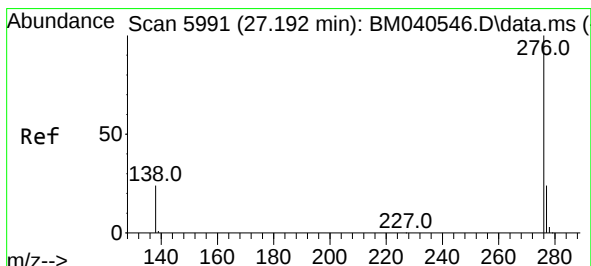
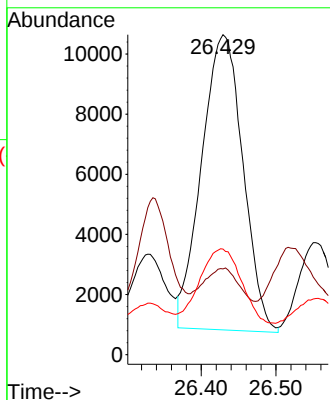
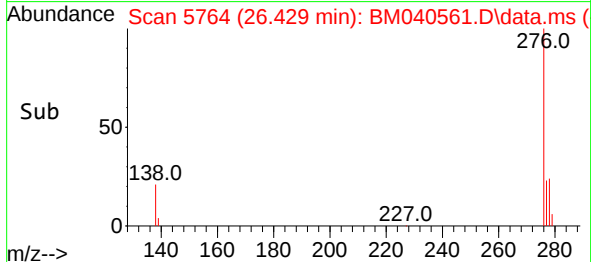
Instrument :  
BNA\_M  
ClientSampleId :  
DCGG4



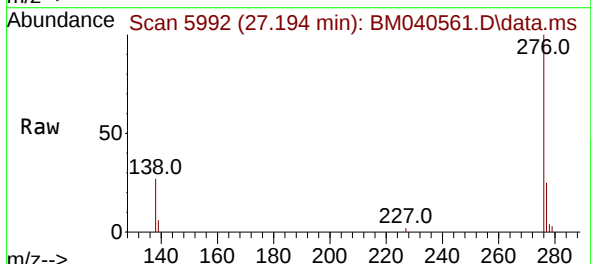
Tgt Ion:278 Resp: 3770  
Ion Ratio Lower Upper  
278 100  
139 26.8 17.9 26.9  
279 33.0 22.0 33.0

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 07/03/2023  
Supervised By :mohammad ahmed 07/03/2023



#29  
Benzo(g,h,i)perylene  
Concen: 1.915 ng/ul  
RT: 27.194 min Scan# 5992  
Delta R.T. 0.009 min  
Lab File: BM040561.D  
Acq: 03 Jul 2023 04:42



Tgt Ion:276 Resp: 127864  
Ion Ratio Lower Upper  
276 100  
138 27.3 23.0 34.6  
277 25.1 20.3 30.5

