

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM101722\  
 Data File : BM037143.D  
 Acq On : 18 Oct 2022 10:07  
 Operator : CG/JU  
 Sample : N5023-13  
 Misc :  
 ALS Vial : 43 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0BD2

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 10/19/2022  
 Supervised By :mohammad ahmed 10/19/2022

Quant Time: Oct 19 01:24:21 2022

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SFAM-EPA-SIM-BM100622.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Mon Oct 17 02:26:13 2022

Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.921  | 152  | 4255     | 0.400 | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.721 | 136  | 15515    | 0.400 | ng/ul  | -0.01    |
| 9) Acenaphthene-d10         | 14.548 | 164  | 8092     | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.289 | 188  | 15461    | 0.400 | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.464 | 240  | 9829     | 0.400 | ng/ul  | 0.00     |
| 23) Perylene-d12            | 23.849 | 264  | 8942     | 0.400 | ng/ul  | # 0.00   |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.331  | 96   | 36479    | 6.079 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.310 | 152  | 7207     | 0.308 | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.313 | 212  | 12588    | 0.428 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.770 | 128  | 8949     | 0.202 | ng/ul  | 99       |
| 7) 2-Methylnaphthalene      | 12.382 | 142  | 4731     | 0.174 | ng/ul  | 92       |
| 8) 1-Methylnaphthalene      | 12.602 | 142  | 3635     | 0.132 | ng/ul  | 100      |
| 10) Acenaphthylene          | 14.270 | 152  | 1410     | 0.042 | ng/ul# | 81       |
| 11) Acenaphthene            | 14.608 | 153  | 852      | 0.029 | ng/ul  | 94       |
| 12) Fluorene                | 15.594 | 166  | 1104     | 0.033 | ng/ul# | 95       |
| 15) Phenanthrene            | 17.331 | 178  | 20100    | 0.407 | ng/ul  | 100      |
| 16) Anthracene              | 17.420 | 178  | 3890     | 0.094 | ng/ul# | 93       |
| 19) Fluoranthene            | 19.341 | 202  | 45230    | 1.157 | ng/ul  | 99       |
| 20) Pyrene                  | 19.704 | 202  | 38331m   | 0.940 | ng/ul  |          |
| 21) Benzo(a)anthracene      | 21.446 | 228  | 15890    | 0.447 | ng/ul  | 97       |
| 22) Chrysene                | 21.499 | 228  | 18008    | 0.472 | ng/ul  | 98       |
| 24) Benzo(b)fluoranthene    | 23.121 | 252  | 24255    | 0.607 | ng/ul  | 93       |
| 25) Benzo(k)fluoranthene    | 23.165 | 252  | 7612m    | 0.196 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.741 | 252  | 14791    | 0.456 | ng/ul# | 92       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.318 | 276  | 11289    | 0.246 | ng/ul# | 96       |
| 28) Dibenzo(a,h)anthracene  | 26.332 | 278  | 2730     | 0.074 | ng/ul# | 75       |
| 29) Benzo(g,h,i)perylene    | 27.080 | 276  | 8625     | 0.213 | ng/ul  | 94       |
| -----                       |        |      |          |       |        |          |

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

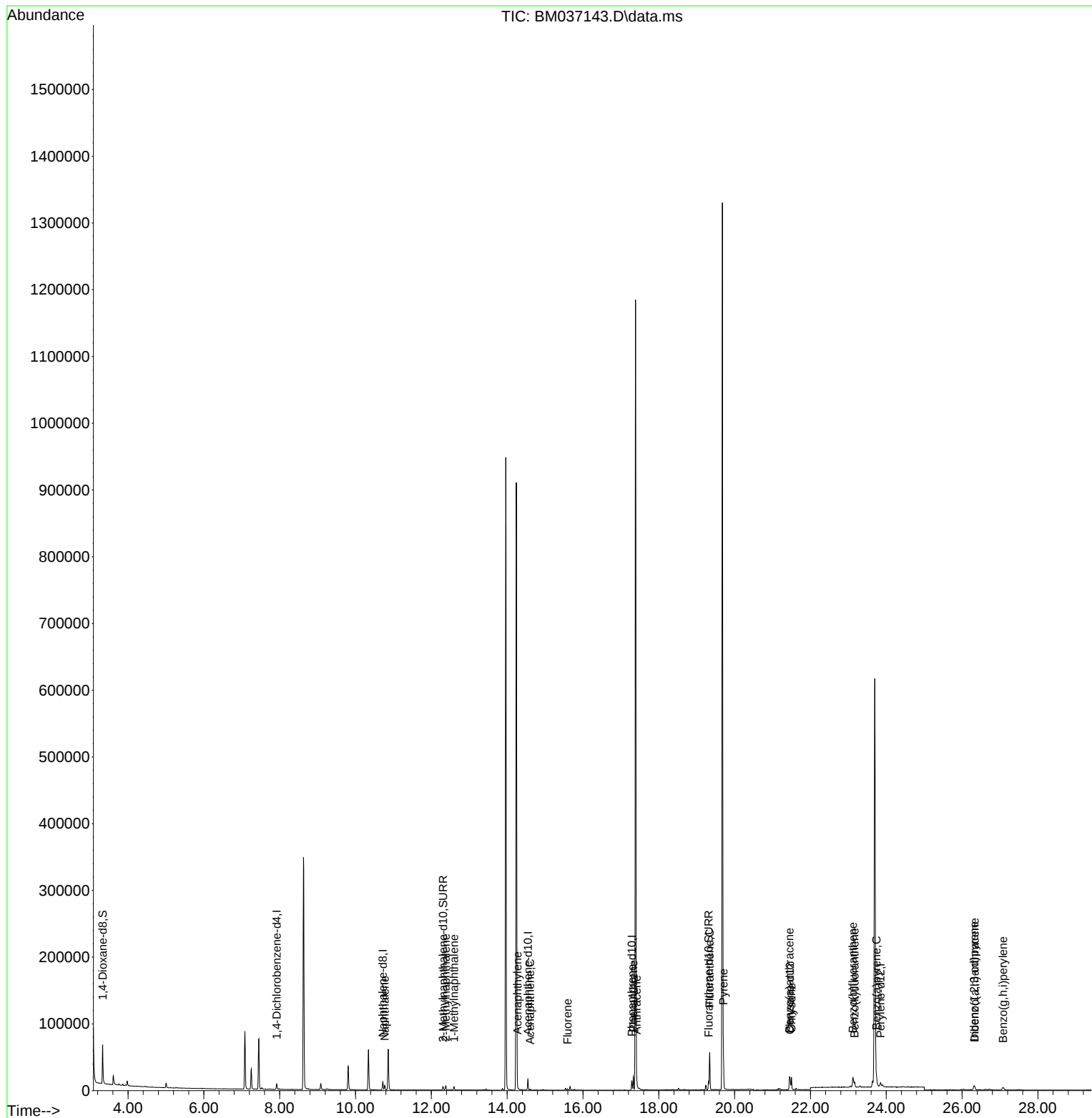
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM101722\  
Data File : BM037143.D  
Acq On : 18 Oct 2022 10:07  
Operator : CG/JU  
Sample : N5023-13  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

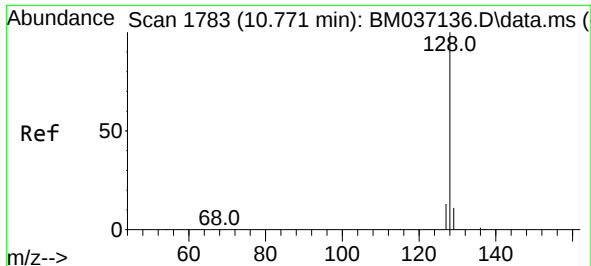
Instrument :  
BNA\_M  
ClientSampleId :  
C0BD2

Manual Integrations  
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Supervised By :mohammad ahmed 10/19/2022

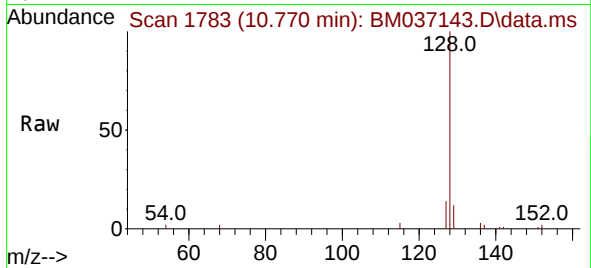
Quant Time: Oct 19 01:24:21 2022  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SFAM-EPA-SIM-BM100622.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Oct 17 02:26:13 2022  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.202 ng/ul  
RT: 10.770 min Scan# 1783  
Delta R.T. -0.011 min  
Lab File: BM037143.D  
Acq: 18 Oct 2022 10:07

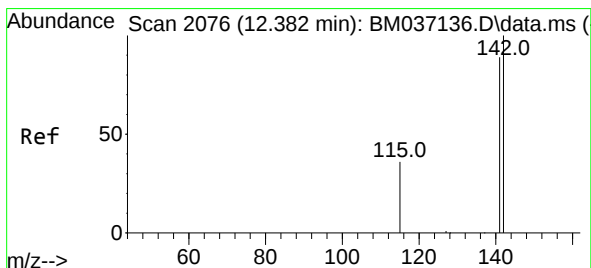
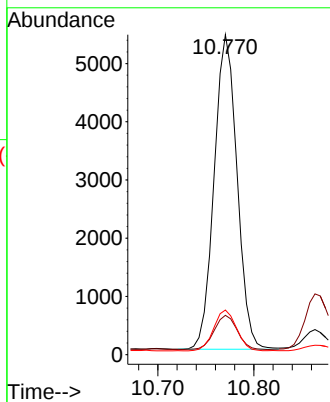
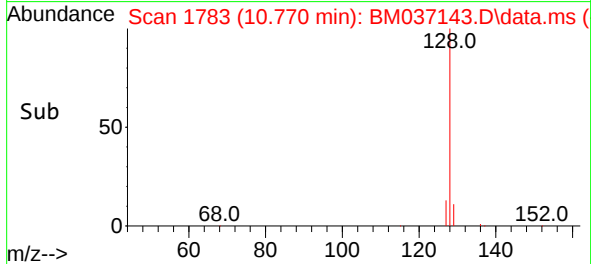
Instrument :  
BNA\_M  
ClientSampleId :  
C0BD2



Tgt Ion:128 Resp: 8949  
Ion Ratio Lower Upper  
128 100  
129 12.3 10.2 15.2  
127 13.9 11.7 17.5

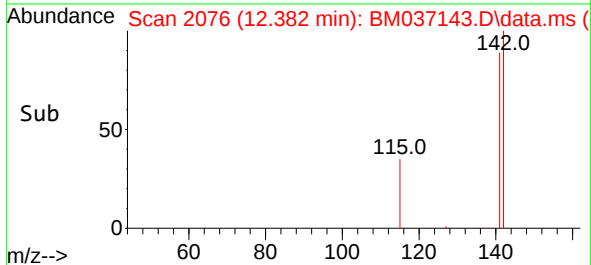
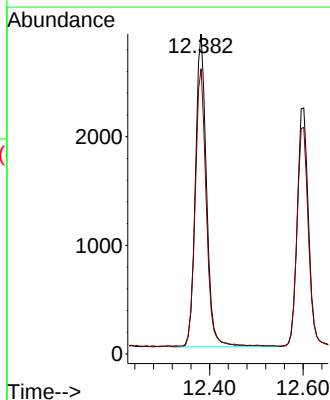
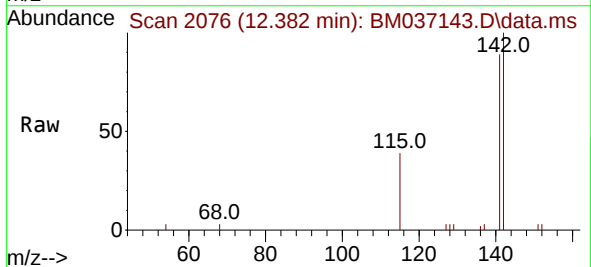
Manual Integrations  
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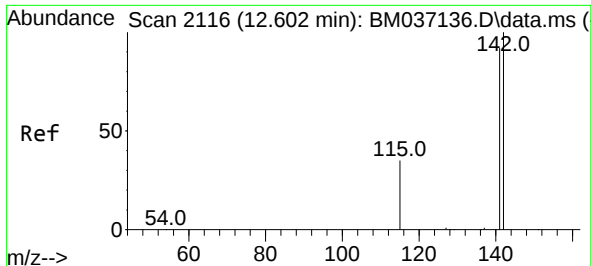
Reviewed By :Jagrut Upadhyay 10/19/2022  
Supervised By :mohammad ahmed 10/19/2022



#7  
2-Methylnaphthalene  
Concen: 0.174 ng/ul  
RT: 12.382 min Scan# 2076  
Delta R.T. -0.011 min  
Lab File: BM037143.D  
Acq: 18 Oct 2022 10:07

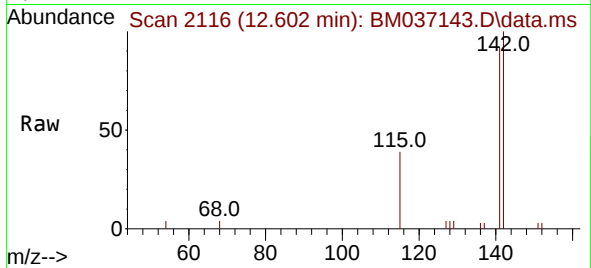
Tgt Ion:142 Resp: 4731  
Ion Ratio Lower Upper  
142 100  
141 88.6 77.4 116.0





#8  
1-Methylnaphthalene  
Concen: 0.132 ng/ul  
RT: 12.602 min Scan# 2116  
Delta R.T. -0.006 min  
Lab File: BM037143.D  
Acq: 18 Oct 2022 10:07

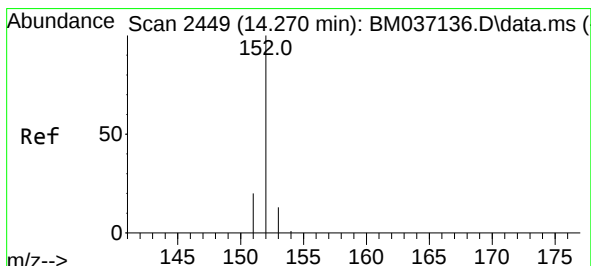
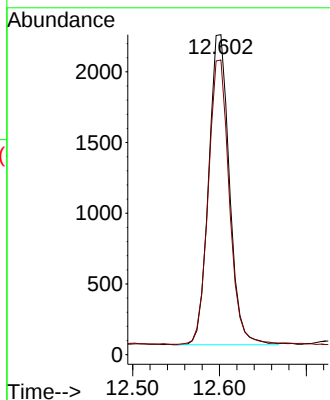
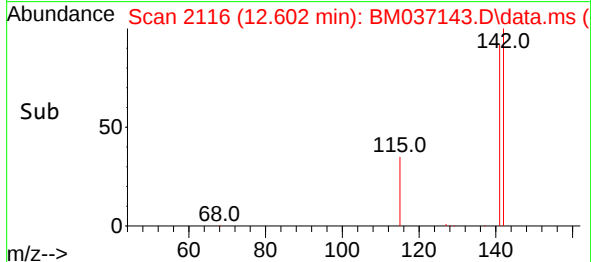
Instrument :  
BNA\_M  
ClientSampleId :  
C0BD2



Tgt Ion:142 Resp: 363  
Ion Ratio Lower Upper  
142 100  
141 92.8 74.1 111.1

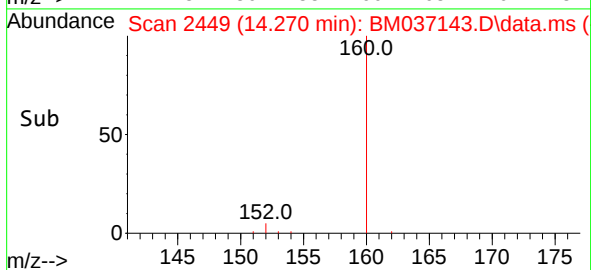
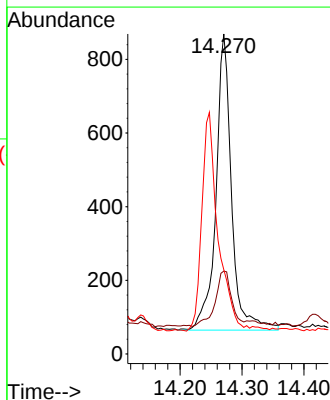
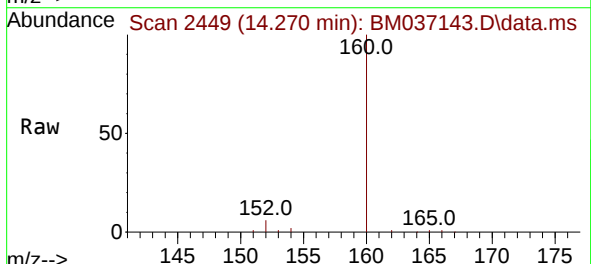
Manual Integrations  
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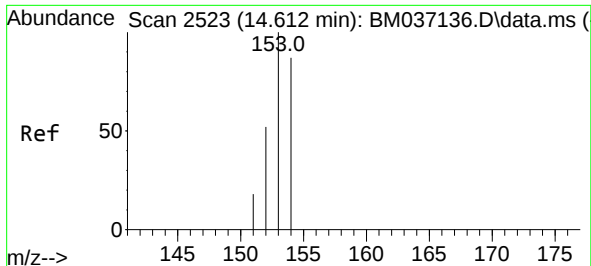
Reviewed By :Jagrut Upadhyay 10/19/2022  
Supervised By :mohammad ahmed 10/19/2022



#10  
Acenaphthylene  
Concen: 0.042 ng/ul  
RT: 14.270 min Scan# 2449  
Delta R.T. -0.008 min  
Lab File: BM037143.D  
Acq: 18 Oct 2022 10:07

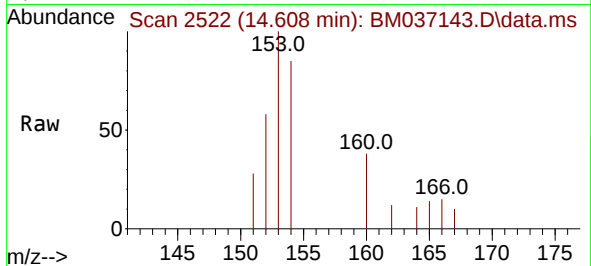
Tgt Ion:152 Resp: 1410  
Ion Ratio Lower Upper  
152 100  
151 25.9 16.6 24.8#  
153 26.4 11.4 17.0#





#11  
Acenaphthene  
Concen: 0.029 ng/u1  
RT: 14.608 min Scan# 2522  
Delta R.T. -0.008 min  
Lab File: BM037143.D  
Acq: 18 Oct 2022 10:07

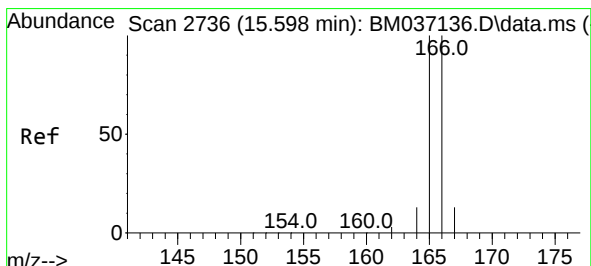
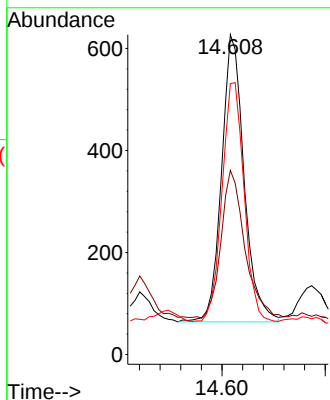
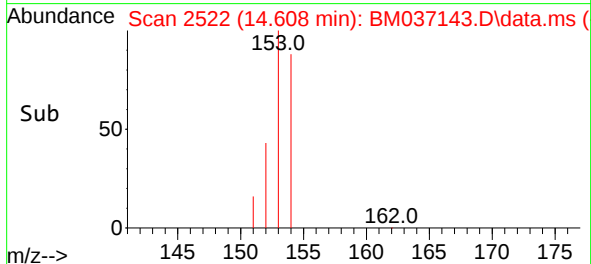
Instrument :  
BNA\_M  
ClientSampleId :  
C0BD2



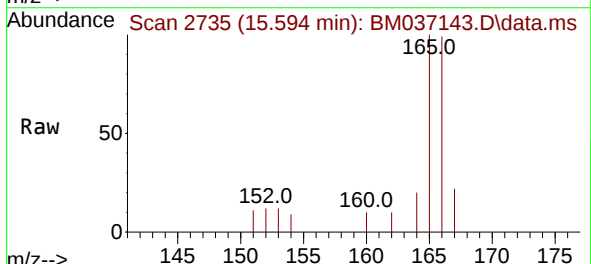
Tgt Ion:153 Resp: 852  
Ion Ratio Lower Upper  
153 100  
152 57.6 40.2 60.4  
154 84.7 69.7 104.5

Manual Integrations  
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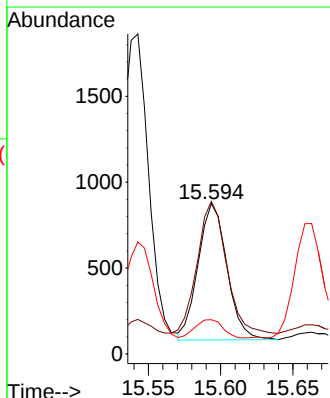
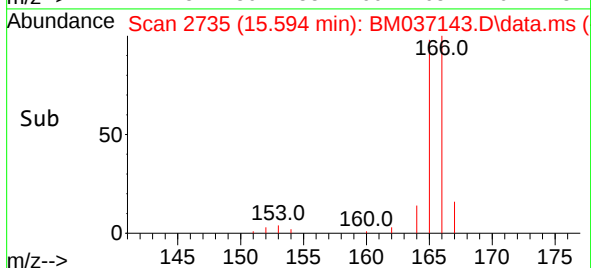
Reviewed By :Jagrut Upadhyay 10/19/2022  
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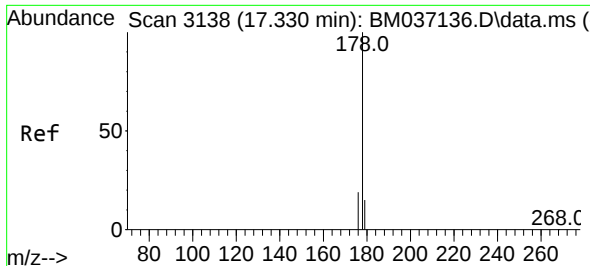


#12  
Fluorene  
Concen: 0.033 ng/u1  
RT: 15.594 min Scan# 2735  
Delta R.T. -0.008 min  
Lab File: BM037143.D  
Acq: 18 Oct 2022 10:07



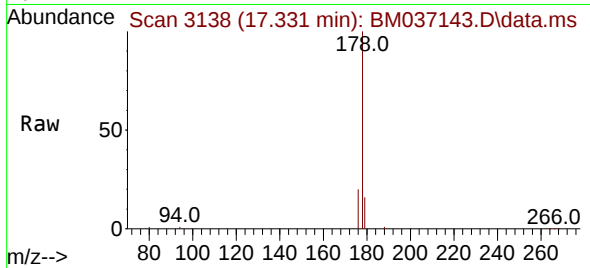
Tgt Ion:166 Resp: 1104  
Ion Ratio Lower Upper  
166 100  
165 101.5 78.9 118.3  
167 22.7 11.3 16.9#





#15  
Phenanthrene  
Concen: 0.407 ng/ul  
RT: 17.331 min Scan# 3138  
Delta R.T. -0.008 min  
Lab File: BM037143.D  
Acq: 18 Oct 2022 10:07

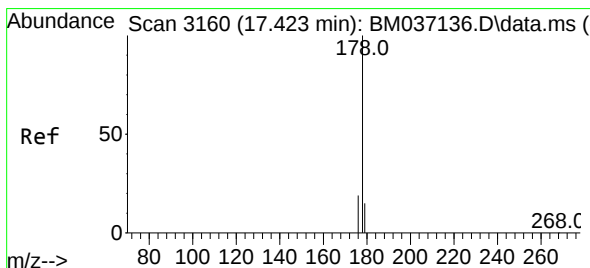
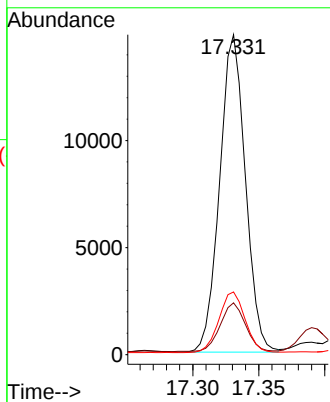
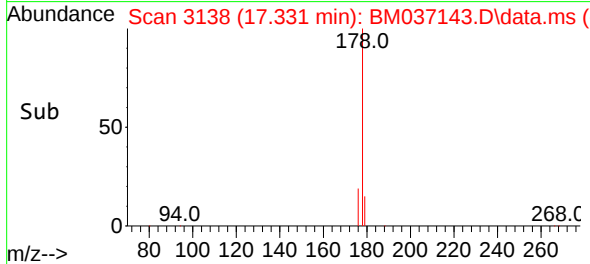
Instrument :  
BNA\_M  
ClientSampleId :  
C0BD2



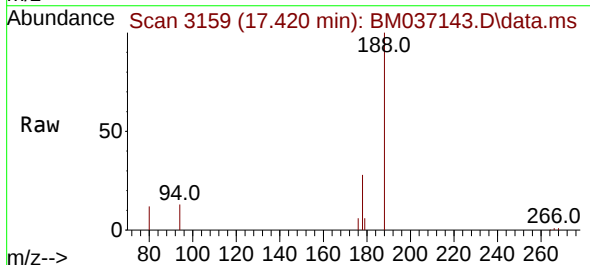
Tgt Ion:178 Resp: 20100  
Ion Ratio Lower Upper  
178 100  
179 16.2 13.0 19.6  
176 19.6 15.6 23.4

Manual Integrations  
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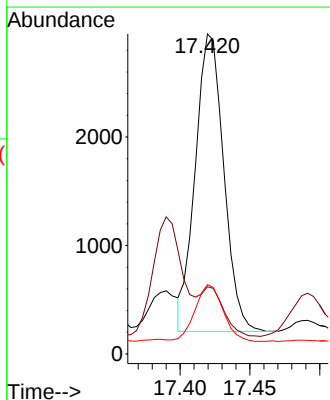
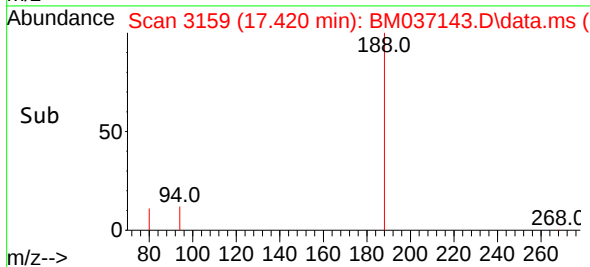
Reviewed By :Jagrut Upadhyay 10/19/2022  
Supervised By :mohammad ahmed 10/19/2022

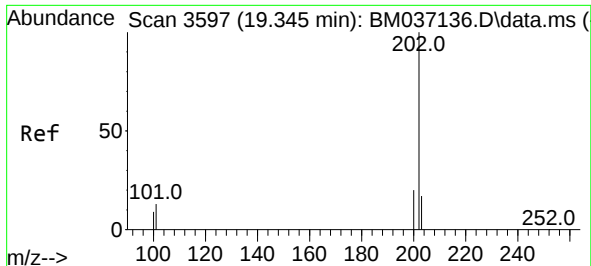


#16  
Anthracene  
Concen: 0.094 ng/ul  
RT: 17.420 min Scan# 3159  
Delta R.T. -0.012 min  
Lab File: BM037143.D  
Acq: 18 Oct 2022 10:07



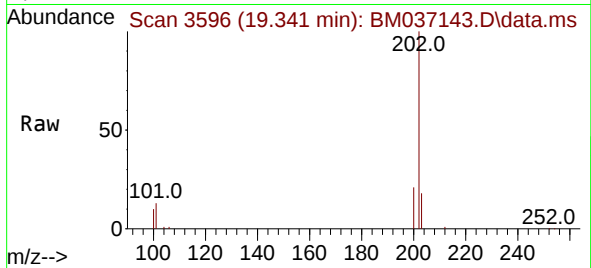
Tgt Ion:178 Resp: 3890  
Ion Ratio Lower Upper  
178 100  
179 21.0 13.6 20.4#  
176 21.7 15.6 23.4





#19  
Fluoranthene  
Concen: 1.157 ng/ul  
RT: 19.341 min Scan# 3596  
Delta R.T. -0.009 min  
Lab File: BM037143.D  
Acq: 18 Oct 2022 10:07

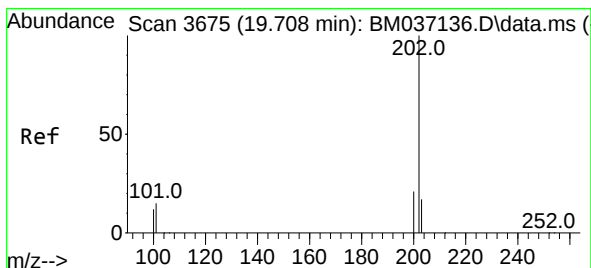
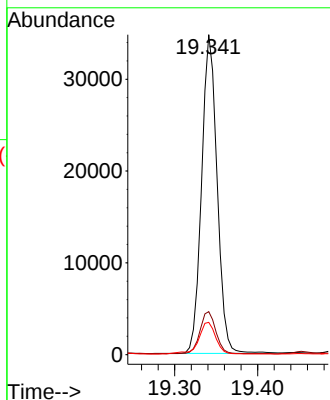
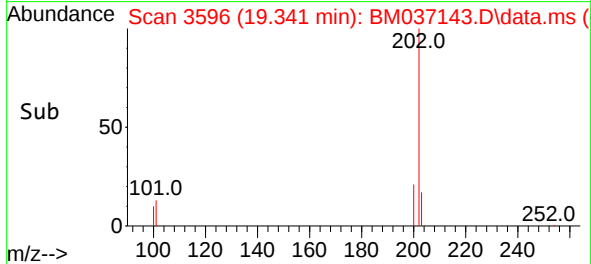
Instrument :  
BNA\_M  
ClientSampleId :  
C0BD2



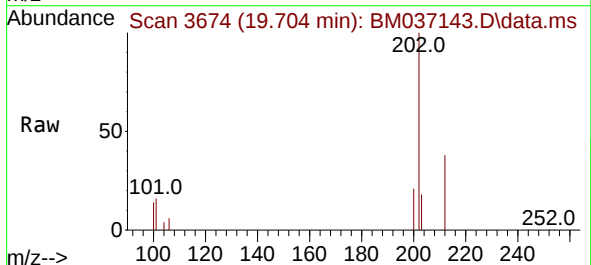
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Ion Ratio Lower Upper  
202 100  
101 13.5 10.1 15.1  
100 10.1 7.9 11.9

Manual Integrations  
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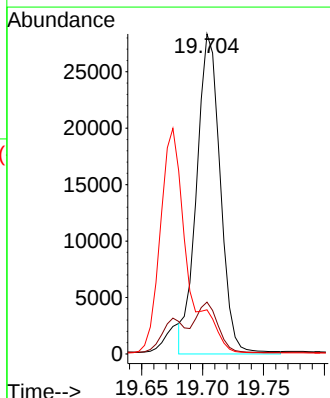
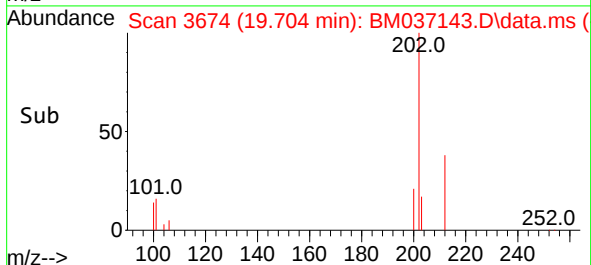
Reviewed By :Jagrut Upadhyay 10/19/2022  
Supervised By :mohammad ahmed 10/19/2022

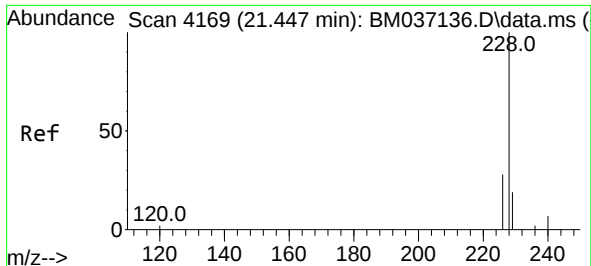


#20  
Pyrene  
Concen: 0.940 ng/ul m  
RT: 19.704 min Scan# 3674  
Delta R.T. -0.004 min  
Lab File: BM037143.D  
Acq: 18 Oct 2022 10:07



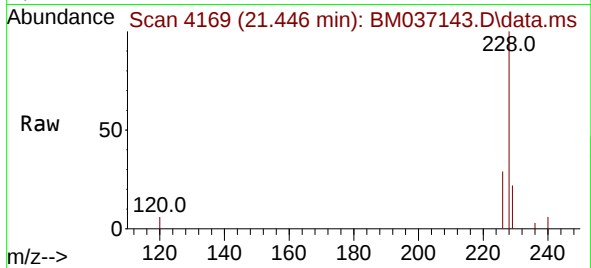
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Ion Ratio Lower Upper  
202 100  
101 16.2 12.0 18.0  
100 13.8 9.8 14.6





#21  
Benzo(a)anthracene  
Concen: 0.447 ng/ul  
RT: 21.446 min Scan# 4169  
Delta R.T. -0.004 min  
Lab File: BM037143.D  
Acq: 18 Oct 2022 10:07

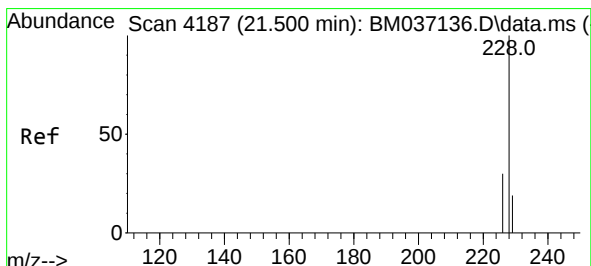
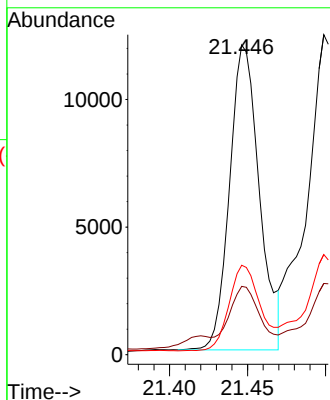
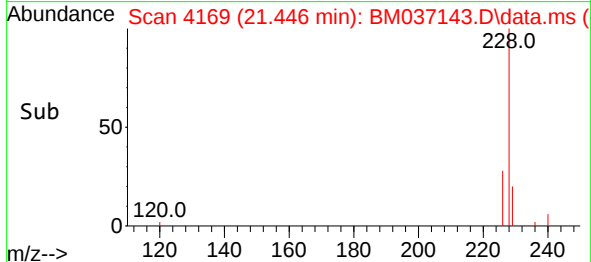
Instrument :  
BNA\_M  
ClientSampleId :  
C0BD2



Tgt Ion:228 Resp: 15890  
Ion Ratio Lower Upper  
228 100  
229 22.1 16.2 24.2  
226 28.9 22.5 33.7

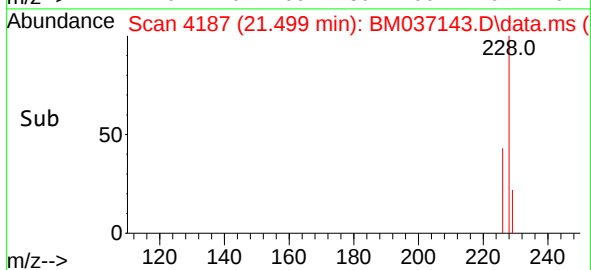
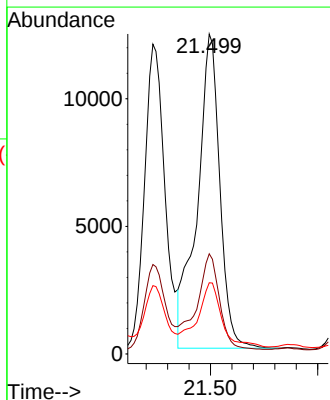
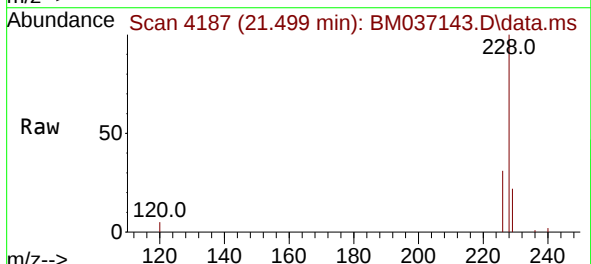
Manual Integrations  
APPROVED

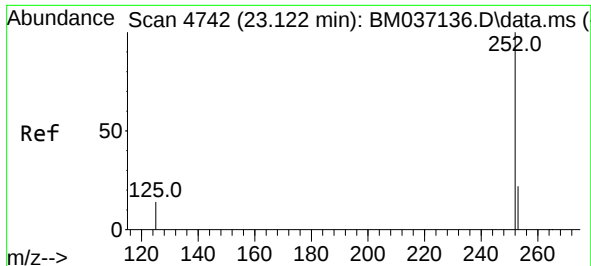
Reviewed By :Jagrut Upadhyay 10/19/2022  
Supervised By :mohammad ahmed 10/19/2022



#22  
Chrysene  
Concen: 0.472 ng/ul  
RT: 21.499 min Scan# 4187  
Delta R.T. -0.004 min  
Lab File: BM037143.D  
Acq: 18 Oct 2022 10:07

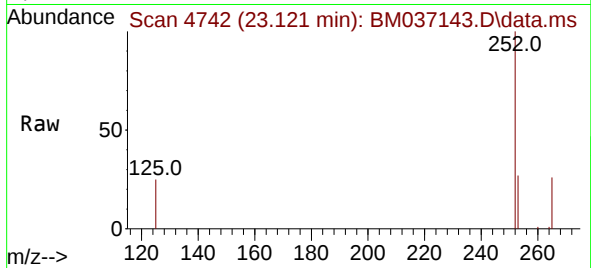
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Ion Ratio Lower Upper  
228 100  
226 31.3 24.6 37.0  
229 22.2 16.4 24.6





#24  
Benzo(b)fluoranthene  
Concen: 0.607 ng/ul  
RT: 23.121 min Scan# 4742  
Delta R.T. -0.001 min  
Lab File: BM037143.D  
Acq: 18 Oct 2022 10:07

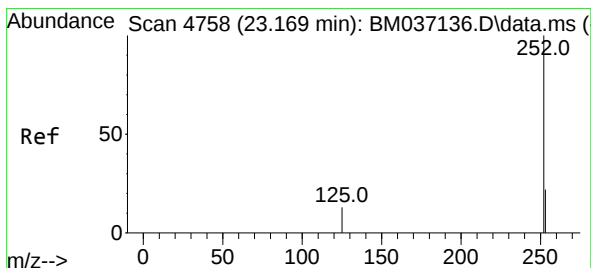
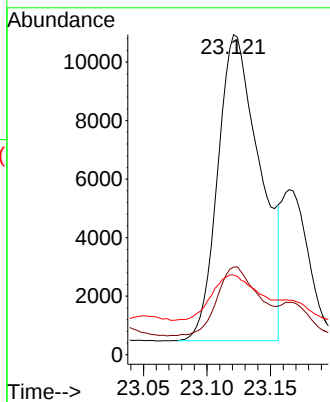
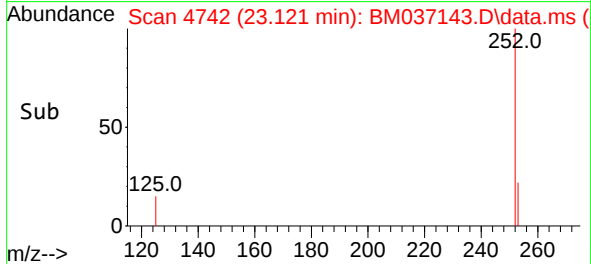
Instrument :  
BNA\_M  
ClientSampleId :  
C0BD2



Tgt Ion:252 Resp: 2425  
Ion Ratio Lower Upper  
252 100  
253 27.4 0.0 61.4  
125 24.9 0.0 42.6

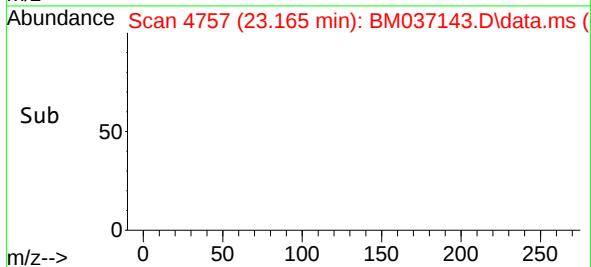
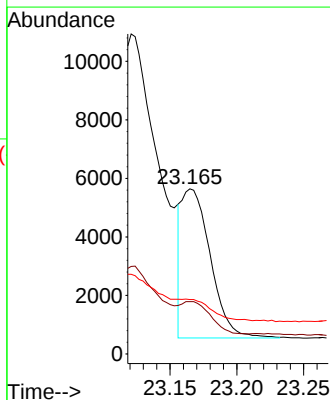
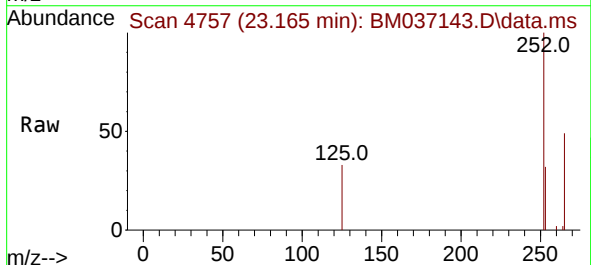
Manual Integrations  
APPROVED

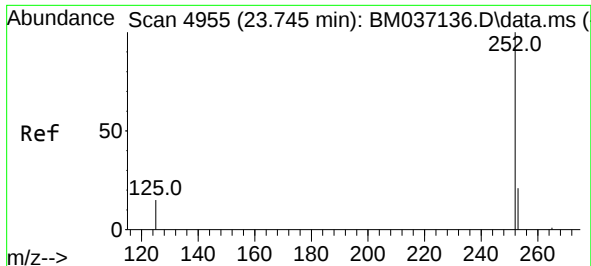
Reviewed By :Jagrut Upadhyay 10/19/2022  
Supervised By :mohammad ahmed 10/19/2022



#25  
Benzo(k)fluoranthene  
Concen: 0.196 ng/ul m  
RT: 23.165 min Scan# 4757  
Delta R.T. -0.004 min  
Lab File: BM037143.D  
Acq: 18 Oct 2022 10:07

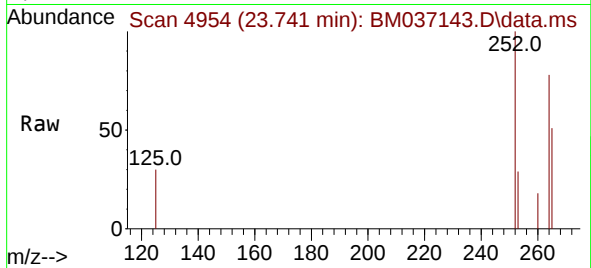
Tgt Ion:252 Resp: 7612  
Ion Ratio Lower Upper  
252 100  
253 31.7 25.2 37.8  
125 32.9 18.3 27.5#





#26  
Benzo(a)pyrene  
Concen: 0.456 ng/ul  
RT: 23.741 min Scan# 4955  
Delta R.T. -0.004 min  
Lab File: BM037143.D  
Acq: 18 Oct 2022 10:07

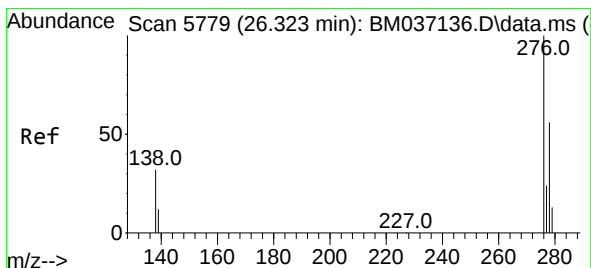
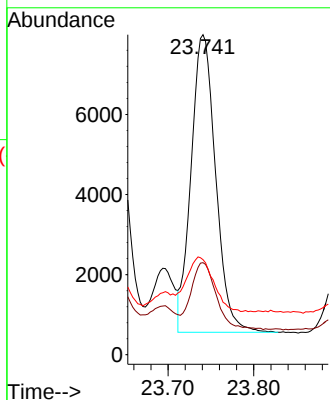
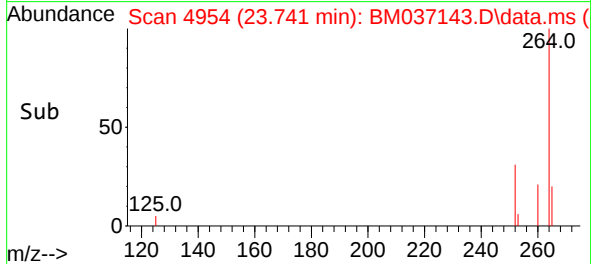
Instrument :  
BNA\_M  
ClientSampleId :  
C0BD2



Tgt Ion:252 Resp: 1479  
Ion Ratio Lower Upper  
252 100  
253 28.8 29.7 44.5  
125 29.7 23.6 35.4

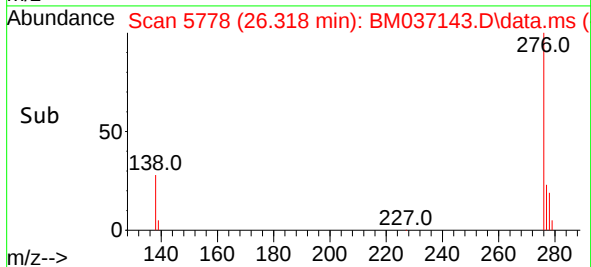
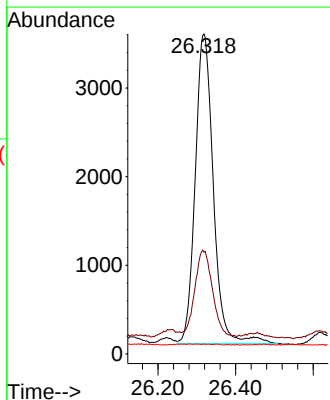
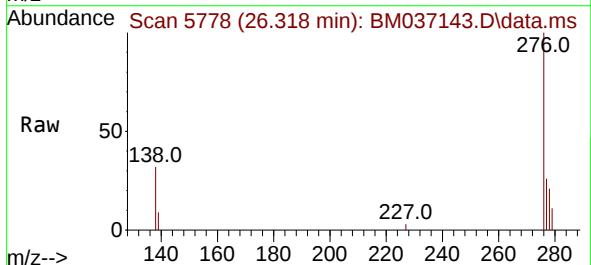
Manual Integrations  
APPROVED

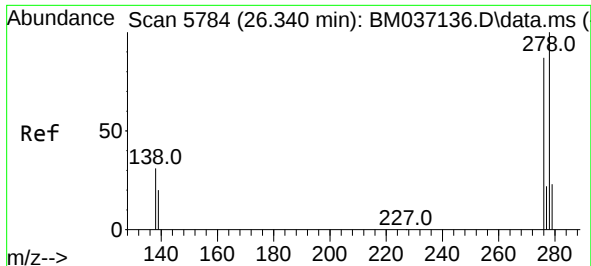
Reviewed By :Jagrut Upadhyay 10/19/2022  
Supervised By :mohammad ahmed 10/19/2022



#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.246 ng/ul  
RT: 26.318 min Scan# 5778  
Delta R.T. -0.008 min  
Lab File: BM037143.D  
Acq: 18 Oct 2022 10:07

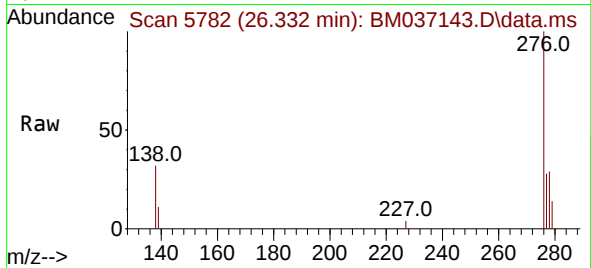
Tgt Ion:276 Resp: 11289  
Ion Ratio Lower Upper  
276 100  
138 27.9 23.9 35.9  
227 0.1 0.1 0.1#





#28  
Dibenzo(a,h)anthracene  
Concen: 0.074 ng/ul  
RT: 26.332 min Scan# 5782  
Delta R.T. -0.011 min  
Lab File: BM037143.D  
Acq: 18 Oct 2022 10:07

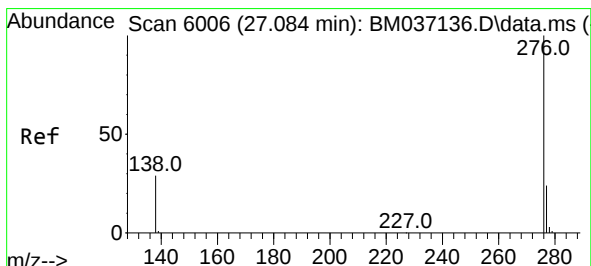
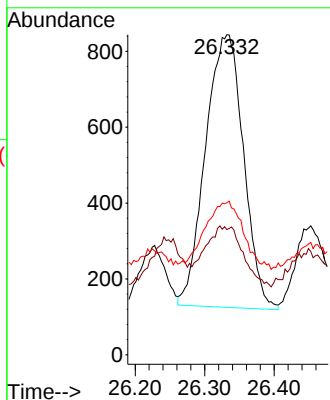
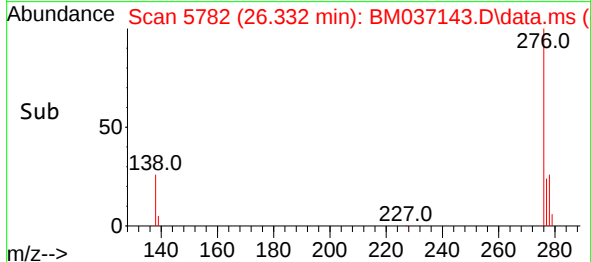
Instrument :  
BNA\_M  
ClientSampleId :  
C0BD2



Tgt Ion:278 Resp: 2730  
Ion Ratio Lower Upper  
278 100  
139 39.1 19.8 29.6  
279 47.5 27.7 41.5

Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 10/19/2022  
Supervised By :mohammad ahmed 10/19/2022



#29  
Benzo(g,h,i)perylene  
Concen: 0.213 ng/ul  
RT: 27.080 min Scan# 6005  
Delta R.T. -0.008 min  
Lab File: BM037143.D  
Acq: 18 Oct 2022 10:07

Tgt Ion:276 Resp: 8625  
Ion Ratio Lower Upper  
276 100  
138 34.2 23.4 35.0  
277 27.7 21.0 31.4

