

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM072423\  
 Data File : BM041087.D  
 Acq On : 24 Jul 2023 22:34  
 Operator : MA/JU  
 Sample : 03534-16  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4731

Manual Integrations  
 APPROVED

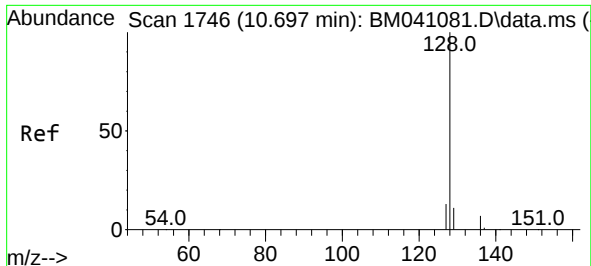
Reviewed By :Yogesh Patel 07/25/2023  
 Supervised By :mohammad ahmed 07/25/2023

Quant Time: Jul 25 00:31:21 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM072423.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 25 00:13:11 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.832  | 152  | 2983     | 0.400 | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.636 | 136  | 10062    | 0.400 | ng/ul  | -0.01    |
| 9) Acenaphthene-d10         | 14.495 | 164  | 5017     | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.253 | 188  | 10562    | 0.400 | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.448 | 240  | 9351     | 0.400 | ng/ul  | 0.00     |
| 23) Perylene-d12            | 23.830 | 264  | 11647    | 0.400 | ng/ul  | #-0.01   |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.250  | 96   | 20199    | 4.389 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.242 | 152  | 4244     | 0.295 | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.283 | 212  | 8302     | 0.326 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.686 | 128  | 1640     | 0.050 | ng/ul# | 86       |
| 7) 2-Methylnaphthalene      | 12.313 | 142  | 419      | 0.026 | ng/ul  | 94       |
| 10) Acenaphthylene          | 14.213 | 152  | 917      | 0.043 | ng/ul# | 75       |
| 11) Acenaphthene            | 14.555 | 153  | 1100     | 0.062 | ng/ul  | 97       |
| 12) Fluorene                | 15.545 | 166  | 1360     | 0.070 | ng/ul# | 97       |
| 15) Phenanthrene            | 17.291 | 178  | 19614    | 0.602 | ng/ul  | 99       |
| 16) Anthracene              | 17.384 | 178  | 3677     | 0.140 | ng/ul# | 92       |
| 19) Fluoranthene            | 19.315 | 202  | 25314    | 0.755 | ng/ul  | 99       |
| 20) Pyrene                  | 19.678 | 202  | 21583m   | 0.584 | ng/ul  |          |
| 21) Benzo(a)anthracene      | 21.434 | 228  | 11108    | 0.355 | ng/ul  | 97       |
| 22) Chrysene                | 21.486 | 228  | 11165    | 0.309 | ng/ul  | 97       |
| 24) Benzo(b)fluoranthene    | 23.105 | 252  | 15667    | 0.338 | ng/ul  | 94       |
| 25) Benzo(k)fluoranthene    | 23.152 | 252  | 6147m    | 0.139 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.719 | 252  | 10337    | 0.275 | ng/ul  | 97       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.294 | 276  | 8457     | 0.152 | ng/ul# | 90       |
| 28) Dibenzo(a,h)anthracene  | 26.307 | 278  | 2065     | 0.047 | ng/ul# | 39       |
| 29) Benzo(g,h,i)perylene    | 27.052 | 276  | 8523     | 0.171 | ng/ul  | 94       |
| -----                       |        |      |          |       |        |          |

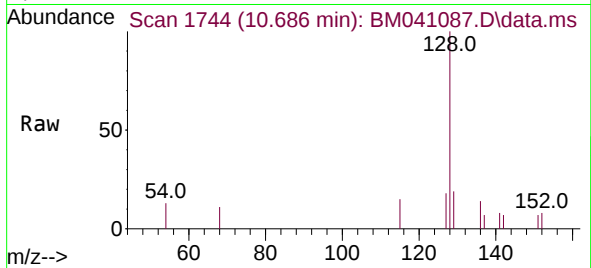
(#) = qualifier out of range (m) = manual integration (+) = signals summed





#5  
Naphthalene  
Concen: 0.050 ng/u1  
RT: 10.686 min Scan# 1746  
Delta R.T. -0.011 min  
Lab File: BM041087.D  
Acq: 24 Jul 2023 22:34

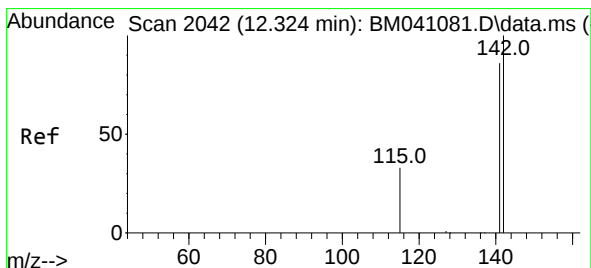
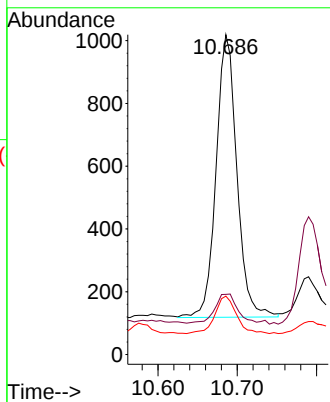
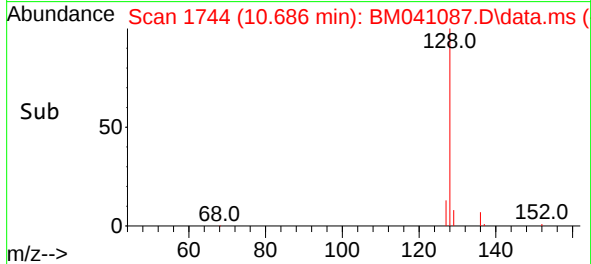
Instrument :  
BNA\_M  
ClientSampleId :  
A4731



Tgt Ion:128 Resp: 1640  
Ion Ratio Lower Upper  
128 100  
129 18.8 9.8 14.8  
127 18.3 11.1 16.7

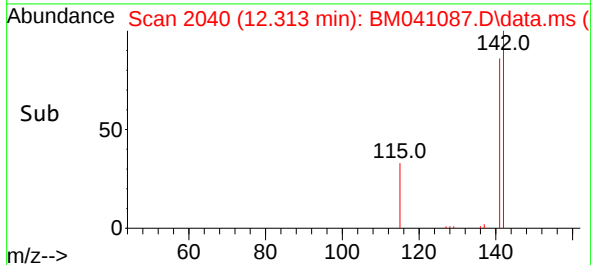
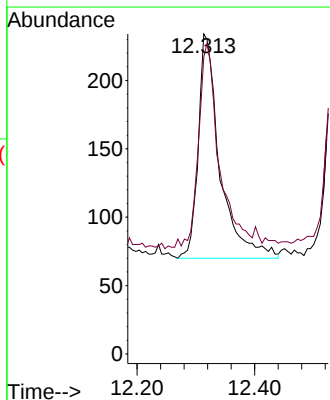
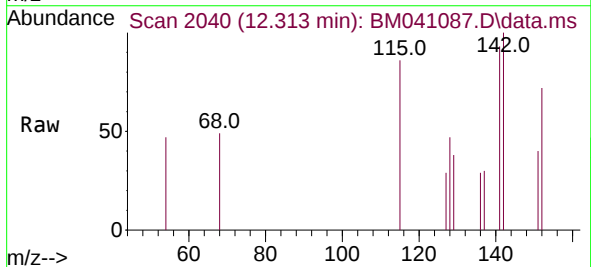
Manual Integrations  
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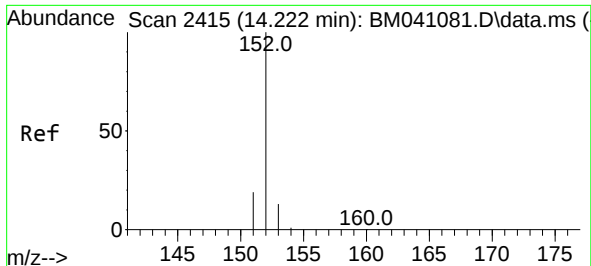
Reviewed By :Yogesh Patel 07/25/2023  
Supervised By :mohammad ahmed 07/25/2023



#7  
2-Methylnaphthalene  
Concen: 0.026 ng/u1  
RT: 12.313 min Scan# 2040  
Delta R.T. -0.005 min  
Lab File: BM041087.D  
Acq: 24 Jul 2023 22:34

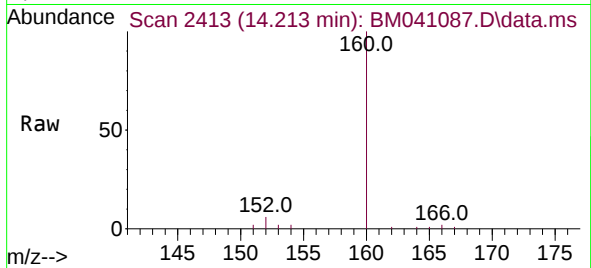
Tgt Ion:142 Resp: 419  
Ion Ratio Lower Upper  
142 100  
141 86.2 73.3 109.9





#10  
Acenaphthylene  
Concen: 0.043 ng/u1  
RT: 14.213 min Scan# 2413  
Delta R.T. -0.005 min  
Lab File: BM041087.D  
Acq: 24 Jul 2023 22:34

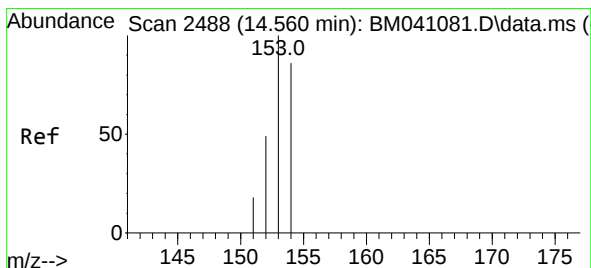
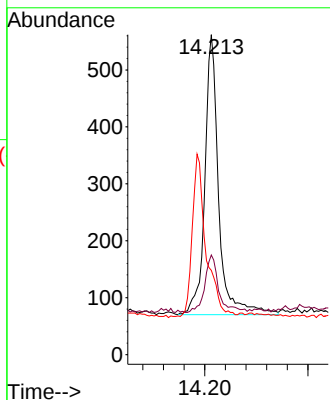
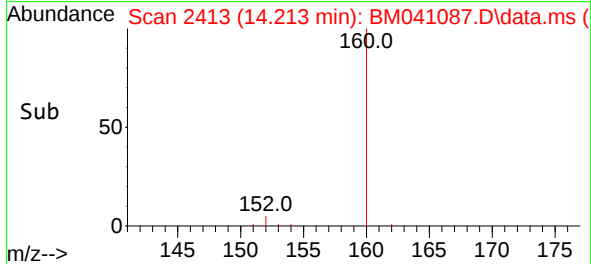
Instrument :  
BNA\_M  
ClientSampleId :  
A4731



Tgt Ion:152 Resp: 91  
Ion Ratio Lower Upper  
152 100  
151 31.1 16.8 25.2  
153 26.3 11.4 17.2

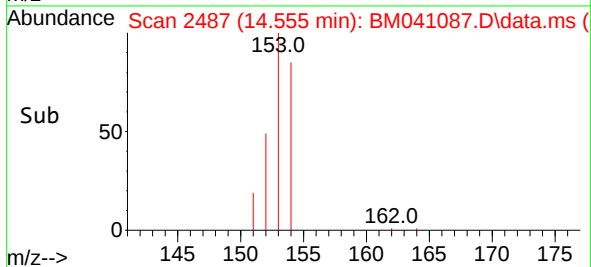
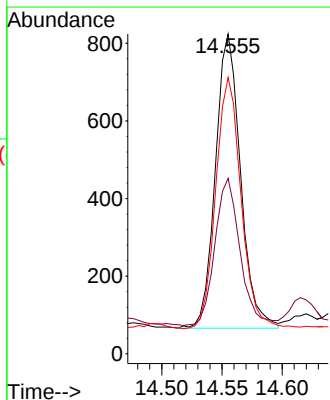
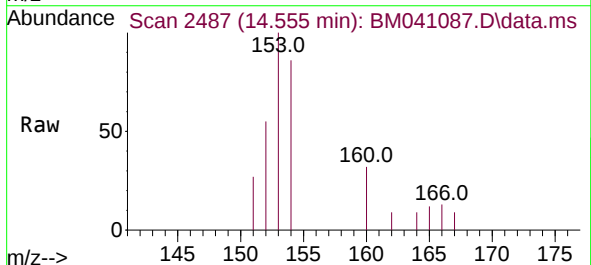
Manual Integrations  
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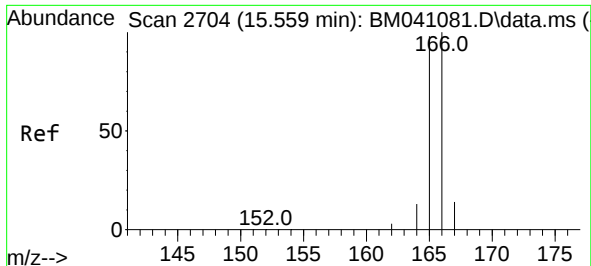
Reviewed By :Yogesh Patel 07/25/2023  
Supervised By :mohammad ahmed 07/25/2023



#11  
Acenaphthene  
Concen: 0.062 ng/u1  
RT: 14.555 min Scan# 2487  
Delta R.T. -0.005 min  
Lab File: BM041087.D  
Acq: 24 Jul 2023 22:34

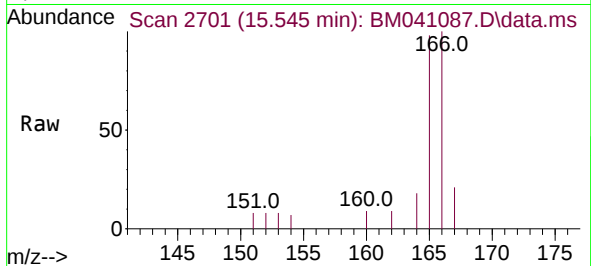
Tgt Ion:153 Resp: 1100  
Ion Ratio Lower Upper  
153 100  
152 54.9 40.2 60.4  
154 86.4 70.3 105.5





#12  
Fluorene  
Concen: 0.070 ng/ul  
RT: 15.545 min Scan# 2704  
Delta R.T. -0.009 min  
Lab File: BM041087.D  
Acq: 24 Jul 2023 22:34

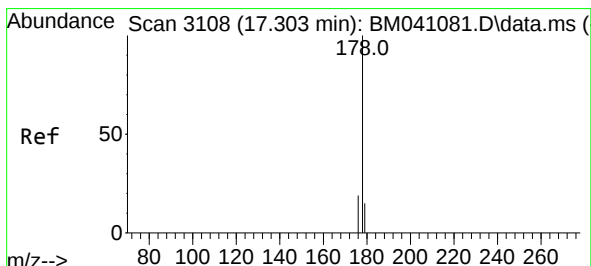
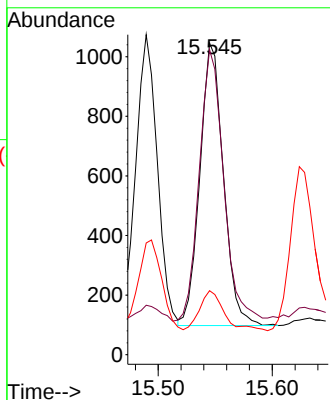
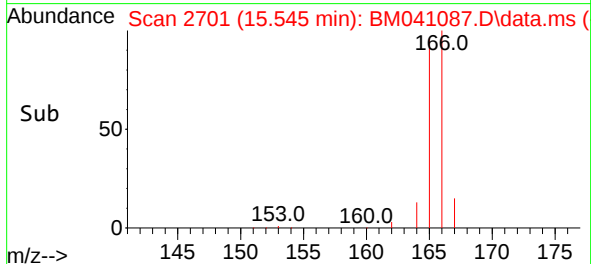
Instrument :  
BNA\_M  
ClientSampleId :  
A4731



Tgt Ion:166 Resp: 1360  
Ion Ratio Lower Upper  
166 100  
165 97.9 79.4 119.0  
167 20.6 11.4 17.2

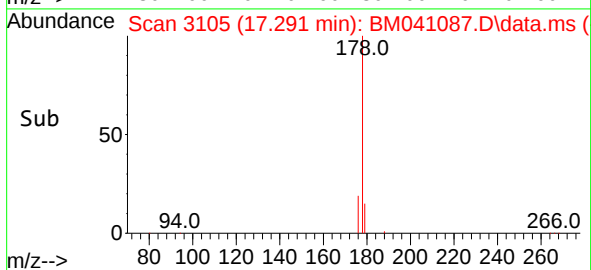
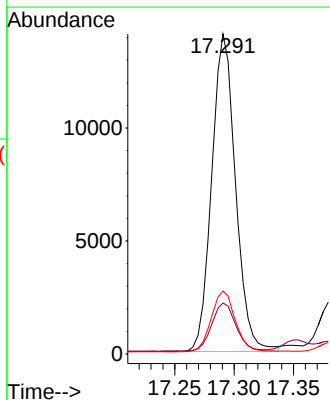
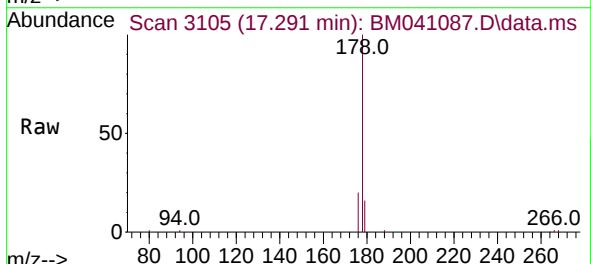
Manual Integrations  
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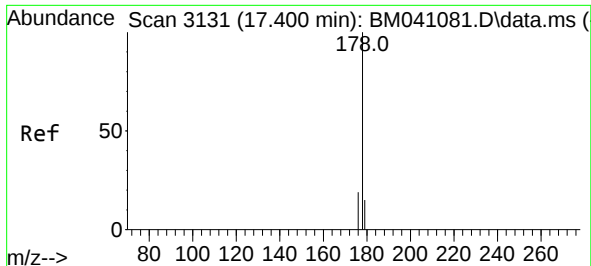
Reviewed By :Yogesh Patel 07/25/2023  
Supervised By :mohammad ahmed 07/25/2023



#15  
Phenanthrene  
Concen: 0.602 ng/ul  
RT: 17.291 min Scan# 3105  
Delta R.T. -0.008 min  
Lab File: BM041087.D  
Acq: 24 Jul 2023 22:34

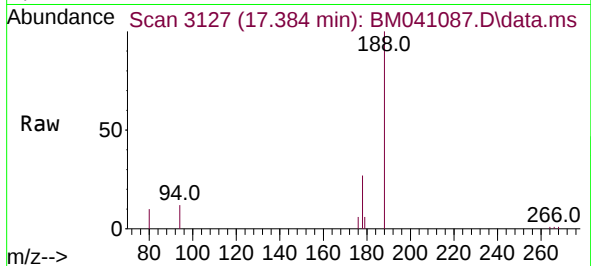
Tgt Ion:178 Resp: 19614  
Ion Ratio Lower Upper  
178 100  
179 15.9 13.4 20.2  
176 19.7 16.0 24.0





#16  
 Anthracene  
 Concen: 0.140 ng/ul  
 RT: 17.384 min Scan# 3131  
 Delta R.T. -0.013 min  
 Lab File: BM041087.D  
 Acq: 24 Jul 2023 22:34

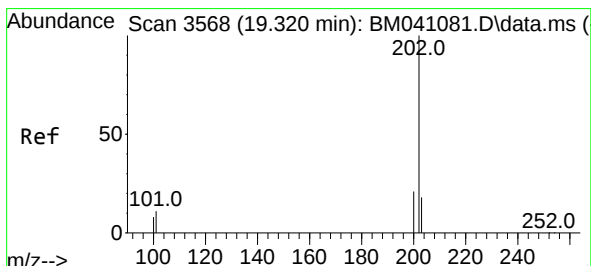
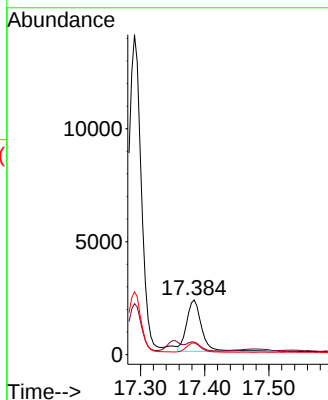
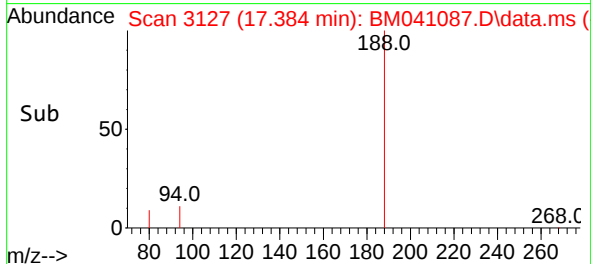
Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4731



Tgt Ion:178 Resp: 367  
 Ion Ratio Lower Upper  
 178 100  
 179 23.2 13.6 20.4  
 176 21.3 16.0 24.0

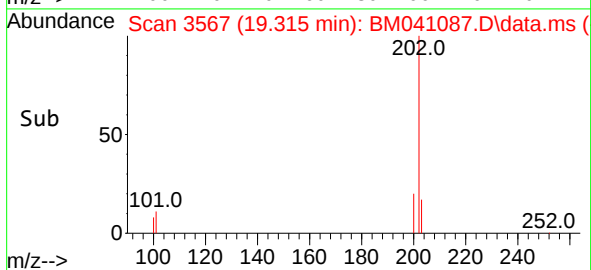
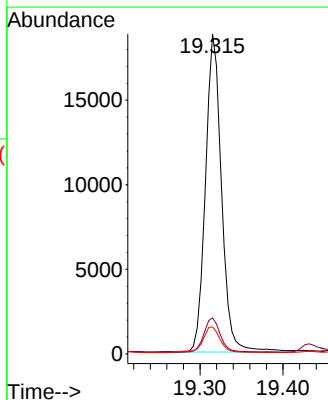
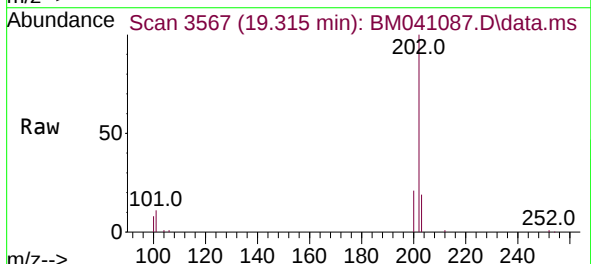
Manual Integrations  
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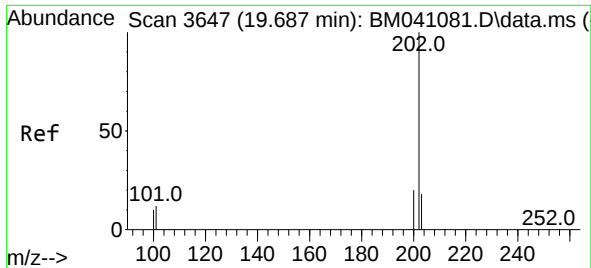
Reviewed By :Yogesh Patel 07/25/2023  
 Supervised By :mohammad ahmed 07/25/2023



#19  
 Fluoranthene  
 Concen: 0.755 ng/ul  
 RT: 19.315 min Scan# 3567  
 Delta R.T. -0.005 min  
 Lab File: BM041087.D  
 Acq: 24 Jul 2023 22:34

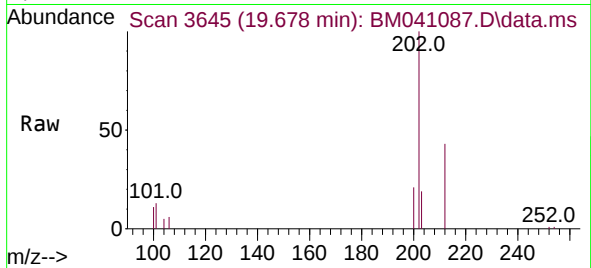
Tgt Ion:202 Resp: 25314  
 Ion Ratio Lower Upper  
 202 100  
 101 11.3 9.4 14.0  
 100 8.5 7.1 10.7





#20  
Pyrene  
Concen: 0.584 ng/ul m  
RT: 19.678 min Scan# 30  
Delta R.T. -0.009 min  
Lab File: BM041087.D  
Acq: 24 Jul 2023 22:34

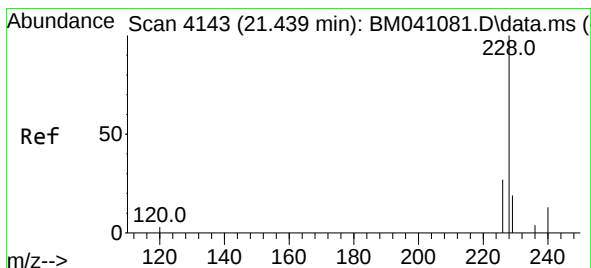
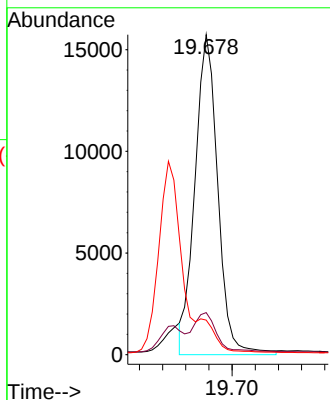
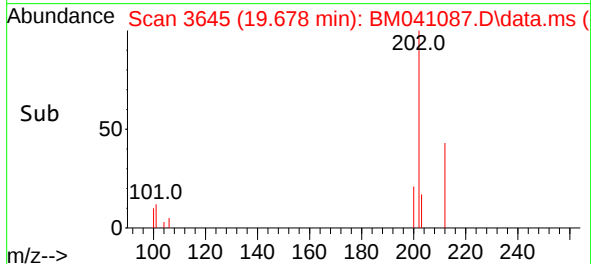
Instrument :  
BNA\_M  
ClientSampleId :  
A4731



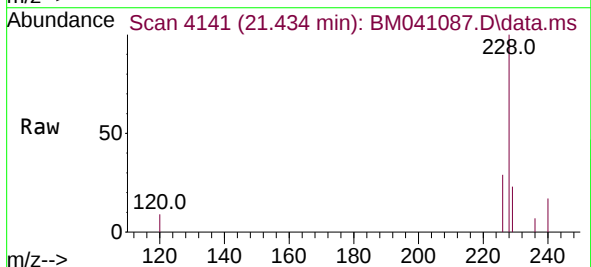
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100 10.8 8.5 12.7

Manual Integrations  
APPROVED

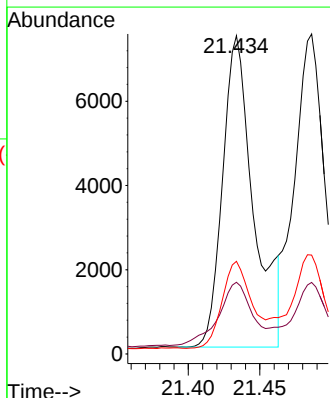
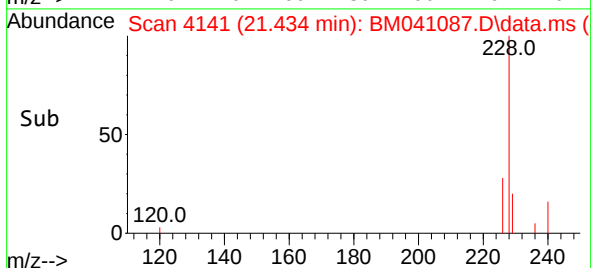
Reviewed By :Yogesh Patel 07/25/2023  
Supervised By :mohammad ahmed 07/25/2023

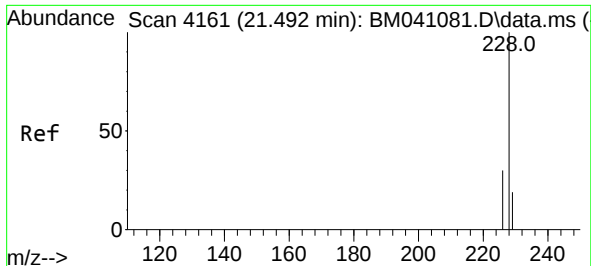


#21  
Benzo(a)anthracene  
Concen: 0.355 ng/ul  
RT: 21.434 min Scan# 4141  
Delta R.T. -0.009 min  
Lab File: BM041087.D  
Acq: 24 Jul 2023 22:34



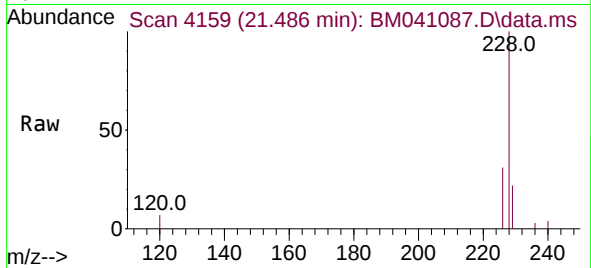
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Ion Ratio Lower Upper  
228 100  
229 22.5 16.5 24.7  
226 29.1 22.2 33.2





#22  
Chrysene  
Concen: 0.309 ng/ul  
RT: 21.486 min Scan# 4161  
Delta R.T. -0.009 min  
Lab File: BM041087.D  
Acq: 24 Jul 2023 22:34

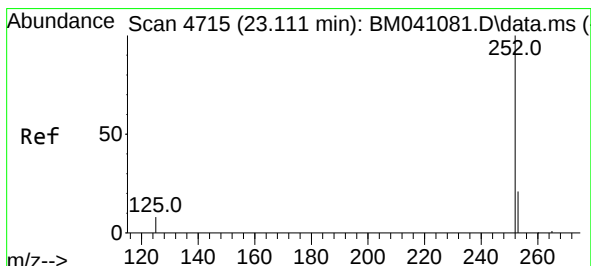
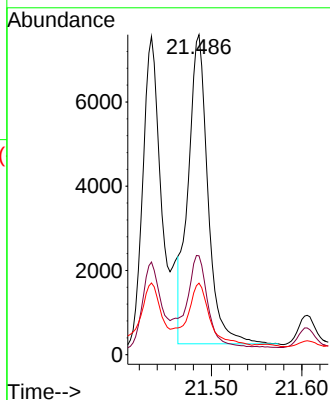
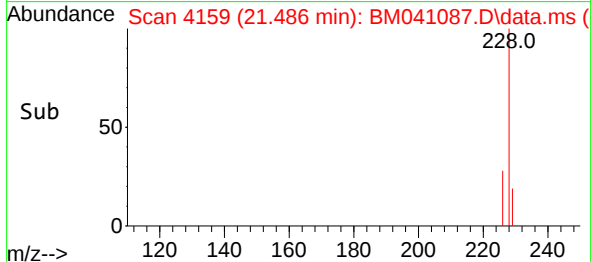
Instrument :  
BNA\_M  
ClientSampleId :  
A4731



Tgt Ion:228 Resp: 1116  
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229 22.4 15.9 23.9

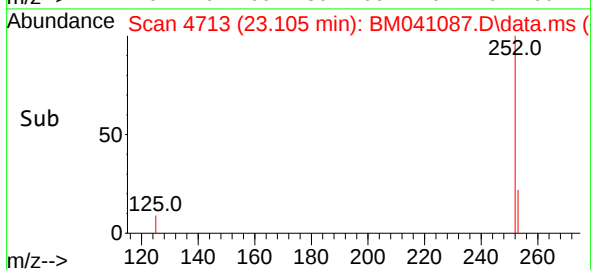
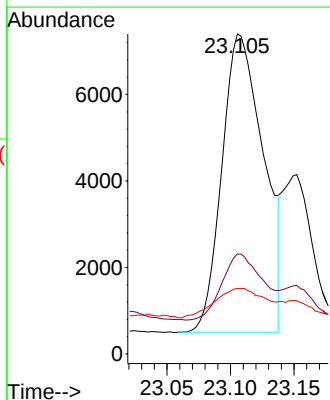
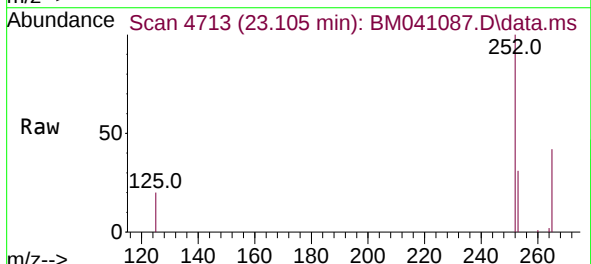
Manual Integrations  
APPROVED

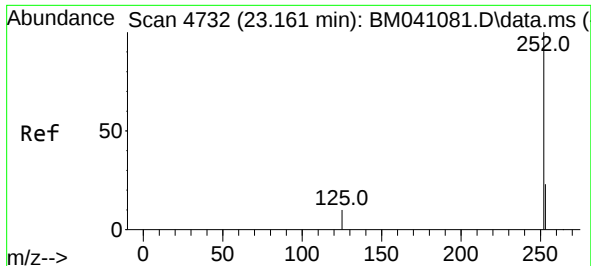
Reviewed By :Yogesh Patel 07/25/2023  
Supervised By :mohammad ahmed 07/25/2023



#24  
Benzo(b)fluoranthene  
Concen: 0.338 ng/ul  
RT: 23.105 min Scan# 4713  
Delta R.T. -0.012 min  
Lab File: BM041087.D  
Acq: 24 Jul 2023 22:34

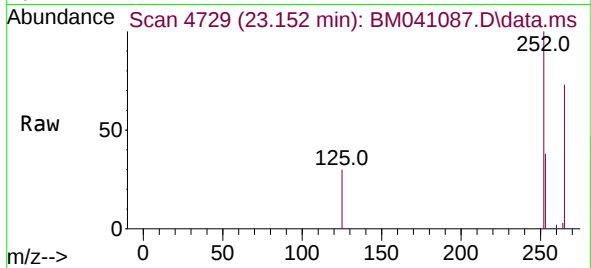
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Ion Ratio Lower Upper  
252 100  
253 31.2 0.0 57.6  
125 20.5 0.0 33.6





#25  
Benzo(k)fluoranthene  
Concen: 0.139 ng/ul m  
RT: 23.152 min Scan# 4729  
Delta R.T. -0.012 min  
Lab File: BM041087.D  
Acq: 24 Jul 2023 22:34

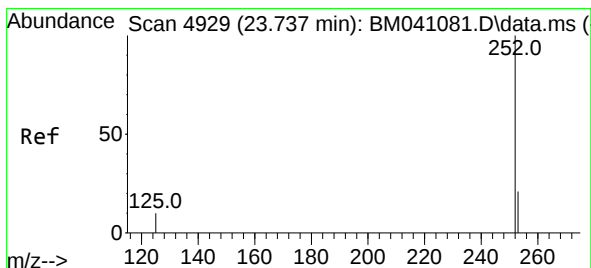
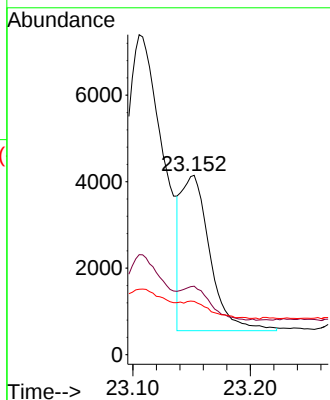
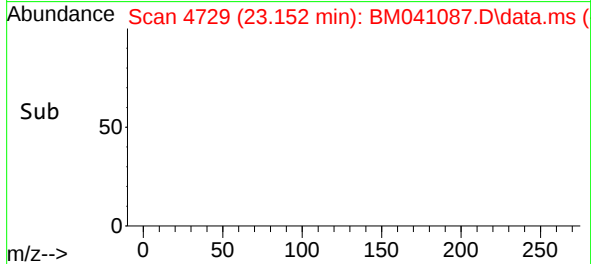
Instrument :  
BNA\_M  
ClientSampleId :  
A4731



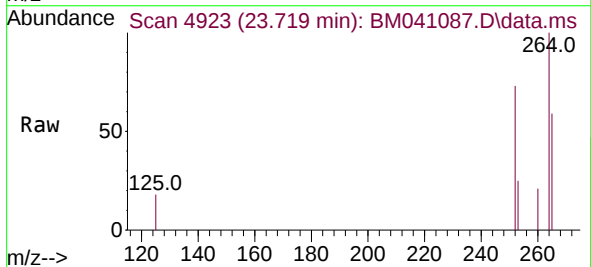
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253 38.2 22.8 34.2  
125 29.7 13.5 20.3

Manual Integrations  
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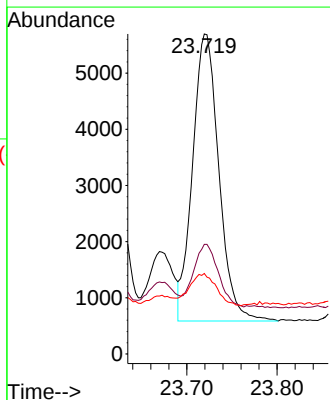
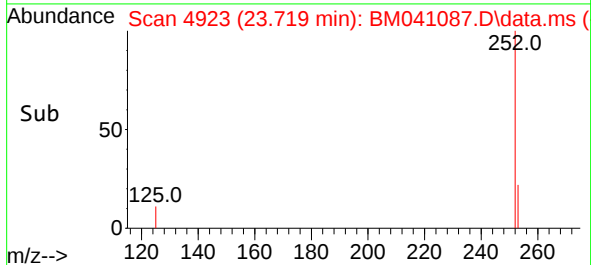
Reviewed By :Yogesh Patel 07/25/2023  
Supervised By :mohammad ahmed 07/25/2023

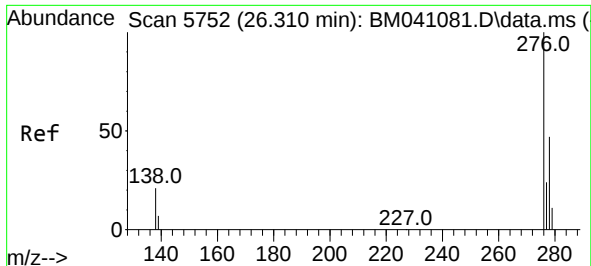


#26  
Benzo(a)pyrene  
Concen: 0.275 ng/ul  
RT: 23.719 min Scan# 4923  
Delta R.T. -0.020 min  
Lab File: BM041087.D  
Acq: 24 Jul 2023 22:34



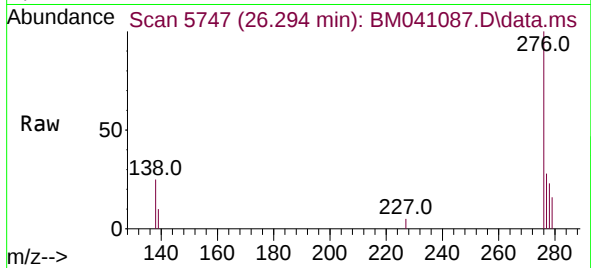
Tgt Ion:252 Resp: 10337  
Ion Ratio Lower Upper  
252 100  
253 34.2 26.7 40.1  
125 25.2 18.1 27.1





#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.152 ng/ul  
RT: 26.294 min Scan# 5747  
Delta R.T. -0.020 min  
Lab File: BM041087.D  
Acq: 24 Jul 2023 22:34

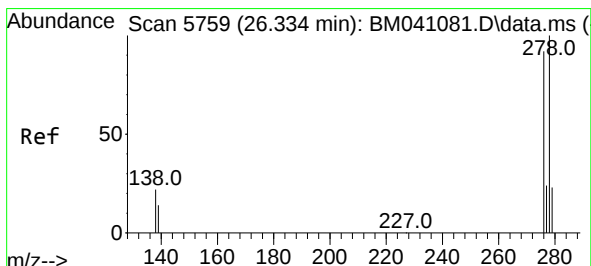
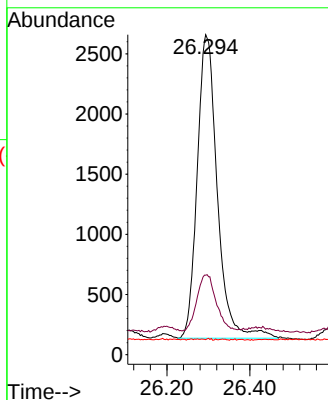
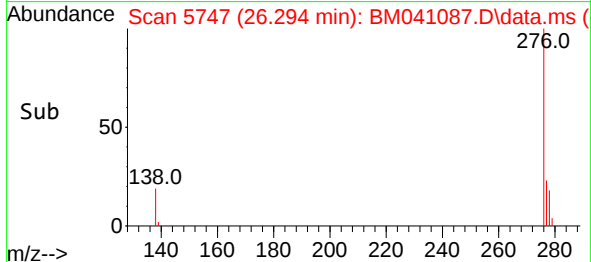
Instrument :  
BNA\_M  
ClientSampleId :  
A4731



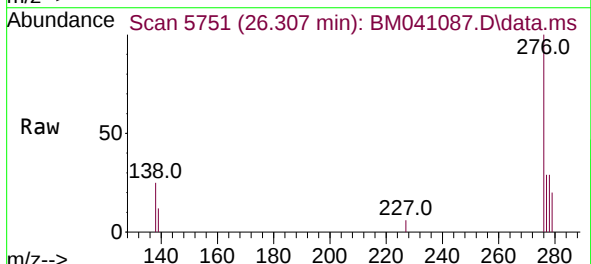
Tgt Ion: 276 Resp: 845  
Ion Ratio Lower Upper  
276 100  
138 17.9 18.1 27.1#  
227 0.1 0.2 0.2#

Manual Integrations  
APPROVED

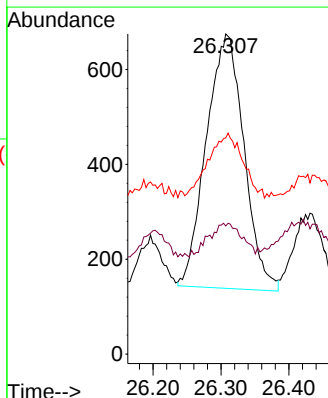
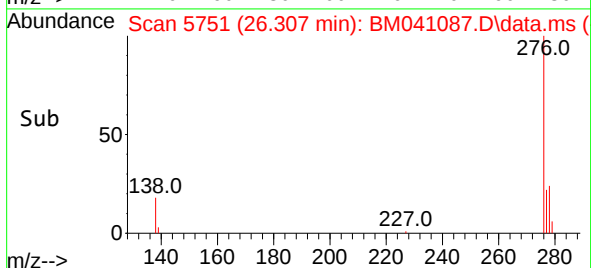
Reviewed By :Yogesh Patel 07/25/2023  
Supervised By :mohammad ahmed 07/25/2023

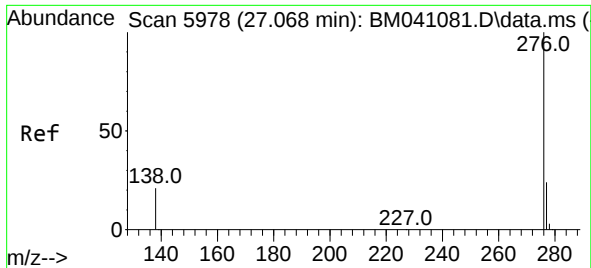


#28  
Dibenzo(a,h)anthracene  
Concen: 0.047 ng/ul  
RT: 26.307 min Scan# 5751  
Delta R.T. -0.030 min  
Lab File: BM041087.D  
Acq: 24 Jul 2023 22:34



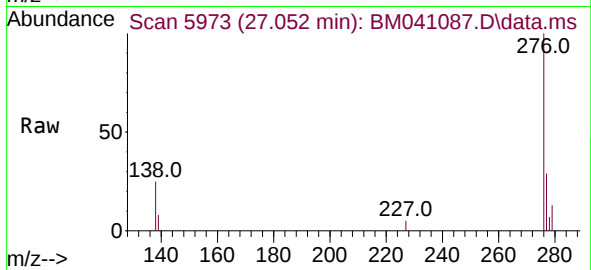
Tgt Ion: 278 Resp: 2065  
Ion Ratio Lower Upper  
278 100  
139 40.0 14.1 21.1#  
279 67.6 25.0 37.4#





#29  
Benzo(g,h,i)perylene  
Concen: 0.171 ng/ul  
RT: 27.052 min Scan# 5973  
Delta R.T. -0.017 min  
Lab File: BM041087.D  
Acq: 24 Jul 2023 22:34

Instrument :  
BNA\_M  
ClientSampleId :  
A4731



Tgt Ion: 276 Resp: 852  
Ion Ratio Lower Upper  
276 100  
138 25.3 18.2 27.2  
277 28.7 20.6 30.8

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 07/25/2023  
Supervised By :mohammad ahmed 07/25/2023

