

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM082423\  
 Data File : BM041510.D  
 Acq On : 26 Aug 2023 01:23  
 Operator : MA/JU  
 Sample : 04037-15  
 Misc :  
 ALS Vial : 48 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 EZYD5

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 08/26/2023  
 Supervised By :mohammad ahmed 08/26/2023

Quant Time: Aug 26 02:09:29 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM082423.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Aug 24 18:34:12 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 8.118  | 152  | 13598    | 0.400 | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.950 | 136  | 38792    | 0.400 | ng/ul  | 0.00     |
| 9) Acenaphthene-d10         | 14.754 | 164  | 19740    | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.510 | 188  | 37657    | 0.400 | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.696 | 240  | 15670    | 0.400 | ng/ul  | # 0.00   |
| 23) Perylene-d12            | 24.269 | 264  | 16671    | 0.400 | ng/ul  | #-0.01   |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.448  | 96   | 48354    | 2.810 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.522 | 152  | 10133    | 0.198 | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.529 | 212  | 16337    | 0.236 | ng/ul  | 0.00     |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.999 | 128  | 12755    | 0.110 | ng/ul  | 97       |
| 7) 2-Methylnaphthalene      | 12.599 | 142  | 6375     | 0.092 | ng/ul  | 99       |
| 8) 1-Methylnaphthalene      | 12.814 | 142  | 4369     | 0.062 | ng/ul  | 99       |
| 10) Acenaphthylene          | 14.486 | 152  | 2624     | 0.022 | ng/ul# | 80       |
| 15) Phenanthrene            | 17.552 | 178  | 34411    | 0.249 | ng/ul  | 98       |
| 16) Anthracene              | 17.645 | 178  | 5769     | 0.046 | ng/ul# | 89       |
| 19) Fluoranthene            | 19.561 | 202  | 88589    | 0.616 | ng/ul  | 99       |
| 20) Pyrene                  | 19.929 | 202  | 91138m   | 0.628 | ng/ul  |          |
| 21) Benzo(a)anthracene      | 21.679 | 228  | 44279    | 0.434 | ng/ul# | 91       |
| 22) Chrysene                | 21.734 | 228  | 56423    | 0.512 | ng/ul# | 92       |
| 24) Benzo(b)fluoranthene    | 23.471 | 252  | 92237    | 0.808 | ng/ul# | 67       |
| 25) Benzo(k)fluoranthene    | 23.520 | 252  | 31562m   | 0.276 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 24.152 | 252  | 53630    | 0.572 | ng/ul# | 62       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.984 | 276  | 59348    | 0.506 | ng/ul# | 88       |
| 28) Dibenzo(a,h)anthracene  | 27.011 | 278  | 13563    | 0.151 | ng/ul# | 1        |
| 29) Benzo(g,h,i)perylene    | 27.836 | 276  | 58868    | 0.570 | ng/ul  | 93       |
| -----                       |        |      |          |       |        |          |

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

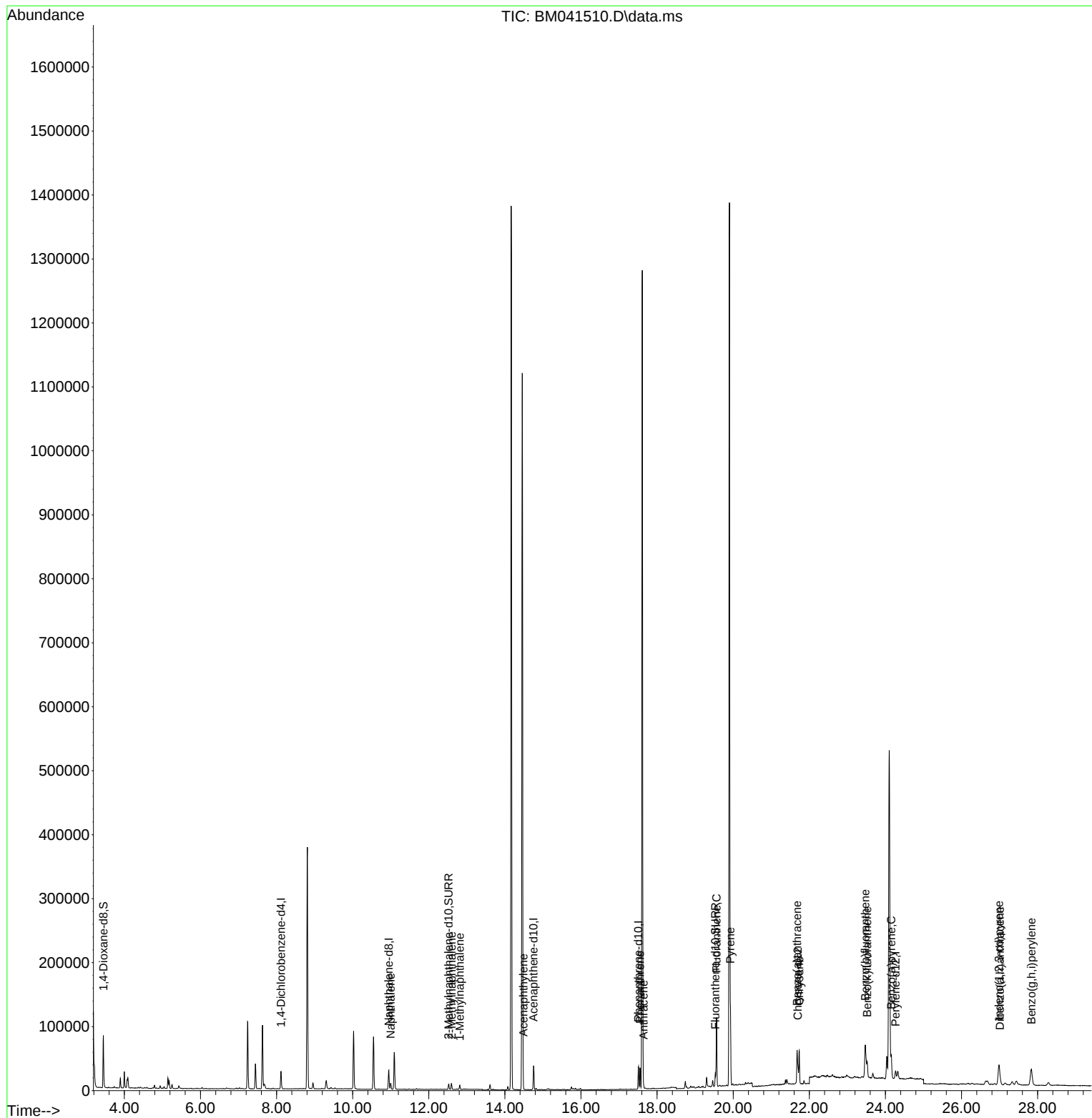
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM082423\  
Data File : BM041510.D  
Acq On : 26 Aug 2023 01:23  
Operator : MA/JU  
Sample : 04037-15  
Misc :  
ALS Vial : 48 Sample Multiplier: 1

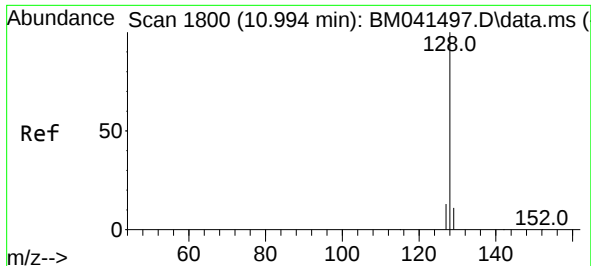
Instrument :  
BNA\_M  
ClientSampleId :  
EZYD5

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 08/26/2023  
Supervised By :mohammad ahmed 08/26/2023

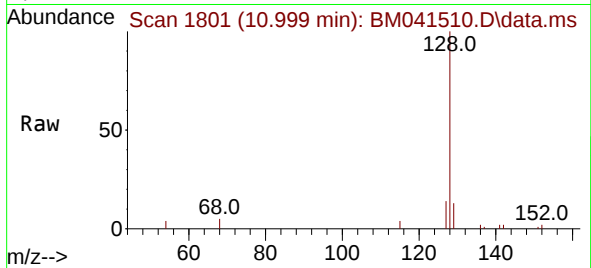
Quant Time: Aug 26 02:09:29 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM082423.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Aug 24 18:34:12 2023  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.110 ng/ul  
RT: 10.999 min Scan# 1801  
Delta R.T. -0.000 min  
Lab File: BM041510.D  
Acq: 26 Aug 2023 01:23

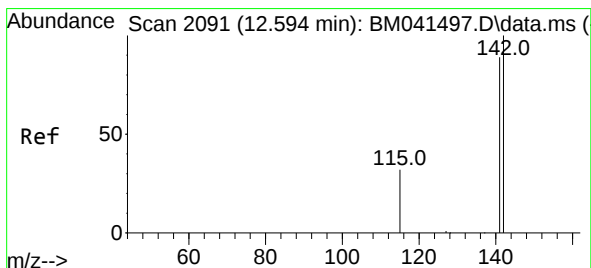
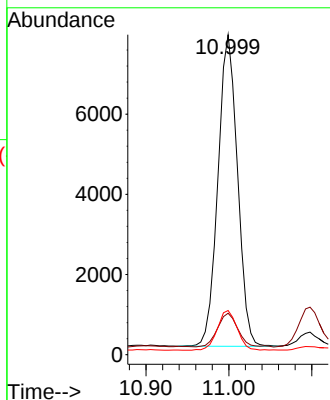
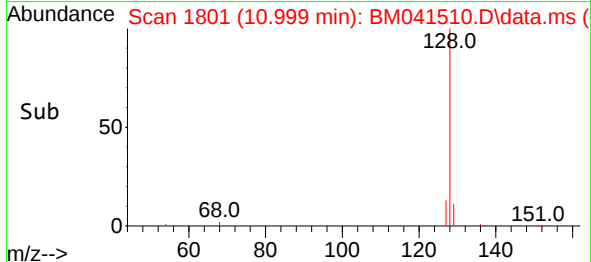
Instrument :  
BNA\_M  
ClientSampleId :  
EZYD5



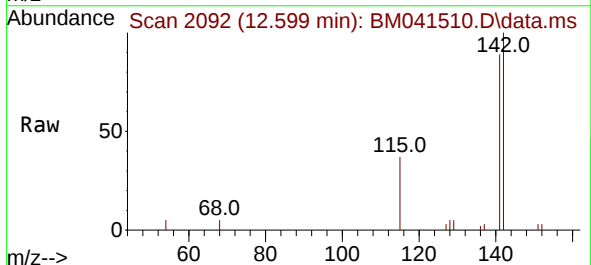
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Ion Ratio Lower Upper  
128 100  
129 13.0 8.9 13.3  
127 13.8 10.6 15.8

Manual Integrations  
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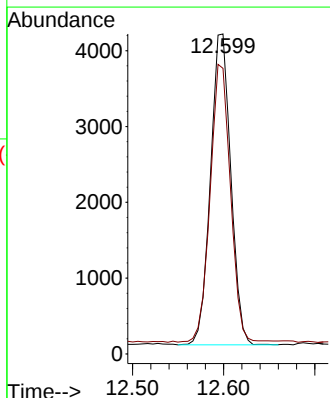
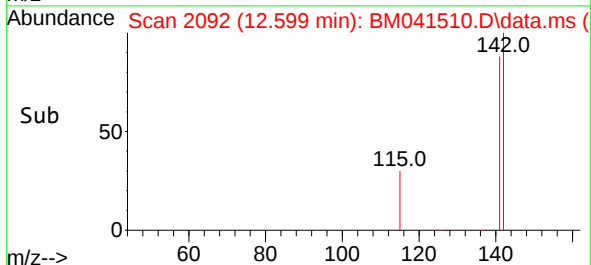
Reviewed By :Yogesh Patel 08/26/2023  
Supervised By :mohammad ahmed 08/26/2023

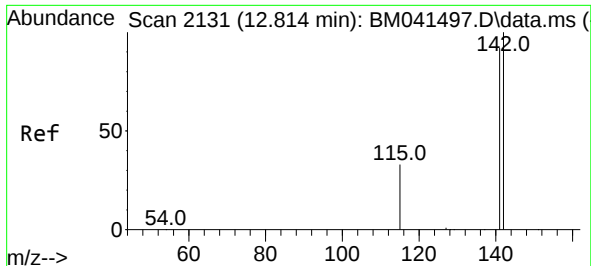


#7  
2-Methylnaphthalene  
Concen: 0.092 ng/ul  
RT: 12.599 min Scan# 2092  
Delta R.T. -0.000 min  
Lab File: BM041510.D  
Acq: 26 Aug 2023 01:23



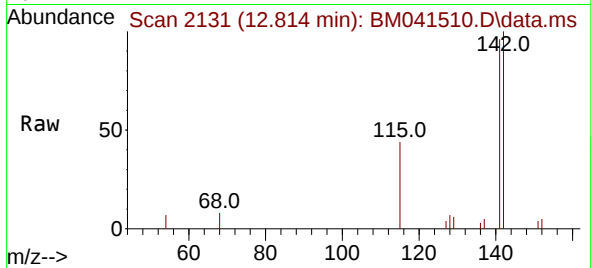
Tgt Ion:142 Resp: 6375  
Ion Ratio Lower Upper  
142 100  
141 89.6 71.1 106.7





#8  
1-Methylnaphthalene  
Concen: 0.062 ng/ul  
RT: 12.814 min Scan# 2131  
Delta R.T. -0.006 min  
Lab File: BM041510.D  
Acq: 26 Aug 2023 01:23

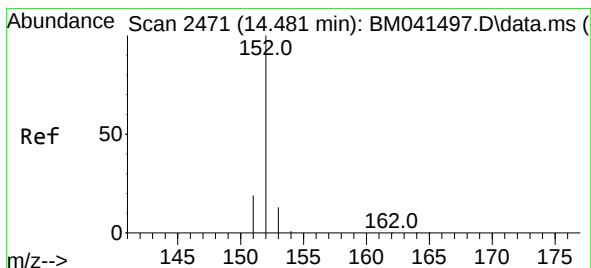
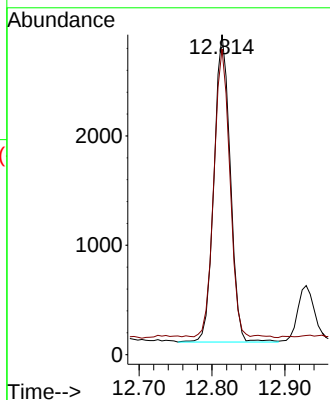
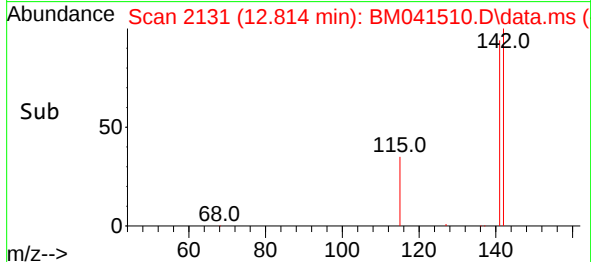
Instrument :  
BNA\_M  
ClientSampleId :  
EZYD5



Tgt Ion:142 Resp: 4369  
Ion Ratio Lower Upper  
142 100  
141 92.5 73.4 110.2

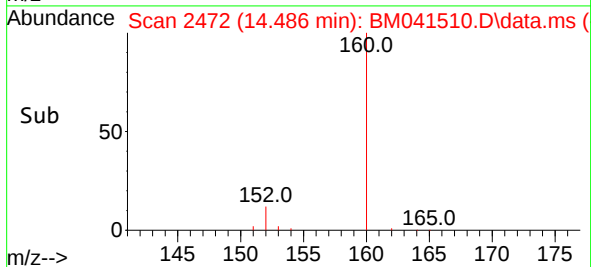
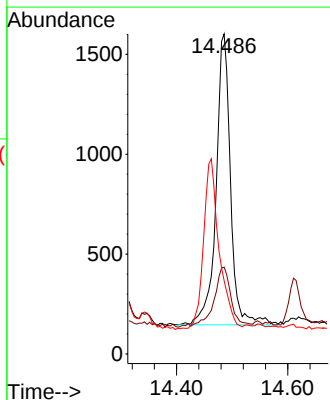
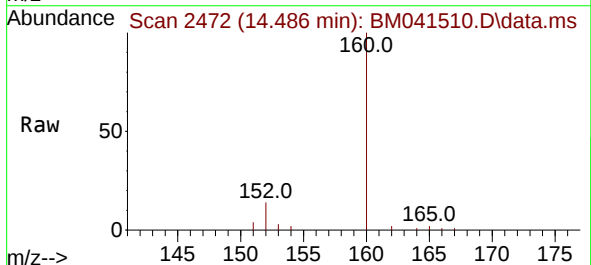
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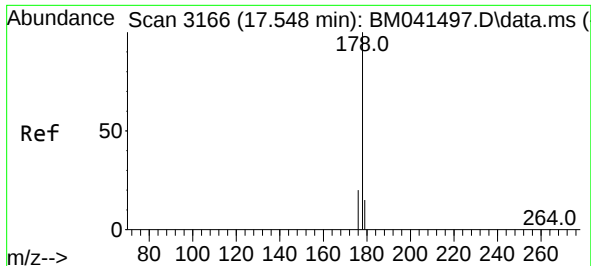
Reviewed By :Yogesh Patel 08/26/2023  
Supervised By :mohammad ahmed 08/26/2023



#10  
Acenaphthylene  
Concen: 0.022 ng/ul  
RT: 14.486 min Scan# 2472  
Delta R.T. -0.000 min  
Lab File: BM041510.D  
Acq: 26 Aug 2023 01:23

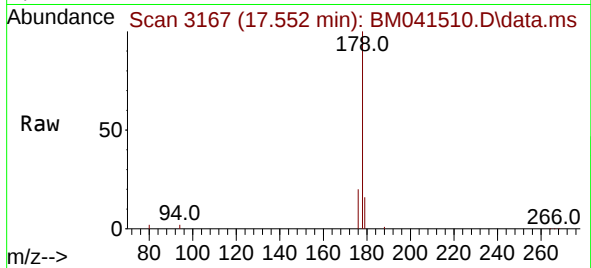
Tgt Ion:152 Resp: 2624  
Ion Ratio Lower Upper  
152 100  
151 27.2 15.8 23.6#  
153 22.9 10.6 15.8#





#15  
Phenanthrene  
Concen: 0.249 ng/ul  
RT: 17.552 min Scan# 3167  
Delta R.T. -0.004 min  
Lab File: BM041510.D  
Acq: 26 Aug 2023 01:23

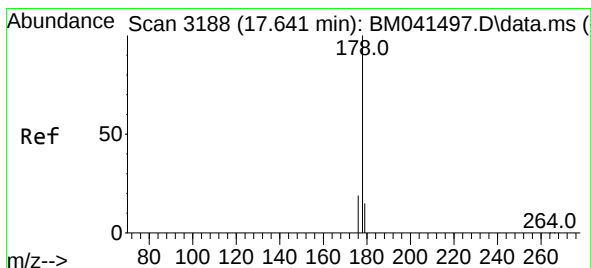
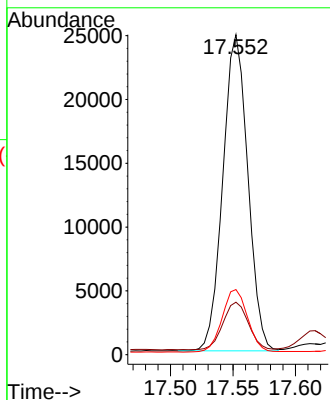
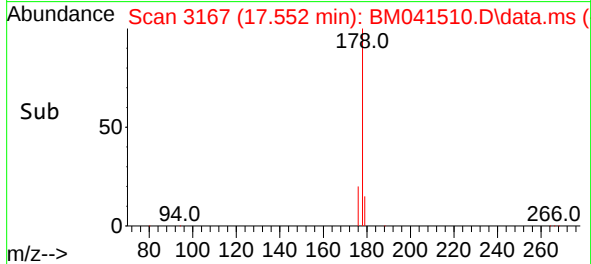
Instrument :  
BNA\_M  
ClientSampleId :  
EZYD5



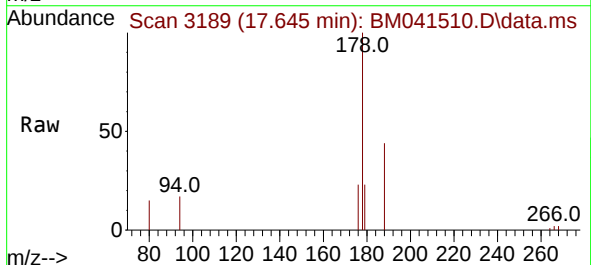
Tgt Ion:178 Resp: 3441  
Ion Ratio Lower Upper  
178 100  
179 16.4 12.5 18.7  
176 20.3 15.8 23.8

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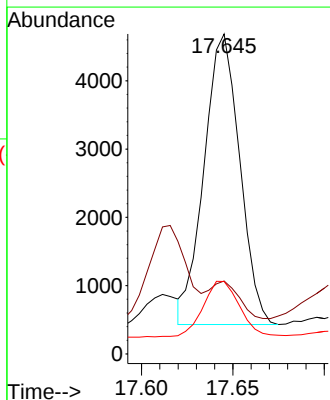
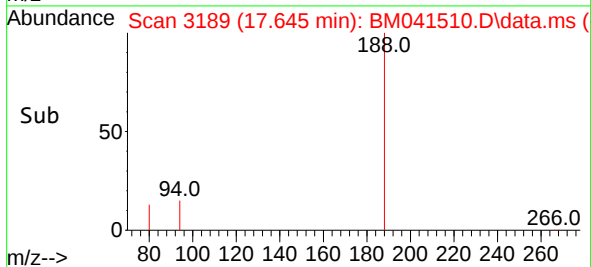
Reviewed By :Yogesh Patel 08/26/2023  
Supervised By :mohammad ahmed 08/26/2023

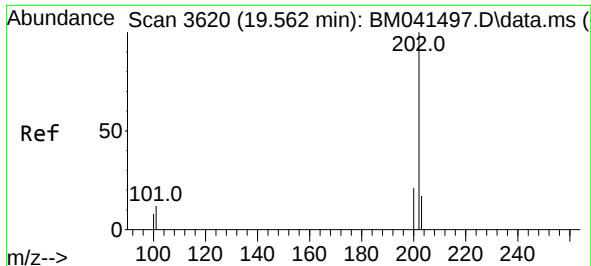


#16  
Anthracene  
Concen: 0.046 ng/ul  
RT: 17.645 min Scan# 3189  
Delta R.T. -0.000 min  
Lab File: BM041510.D  
Acq: 26 Aug 2023 01:23



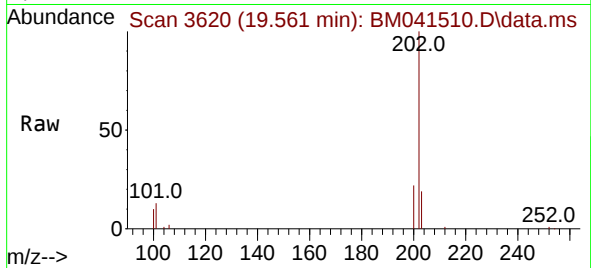
Tgt Ion:178 Resp: 5769  
Ion Ratio Lower Upper  
178 100  
179 22.8 12.6 18.8#  
176 22.6 15.5 23.3





#19  
Fluoranthene  
Concen: 0.616 ng/ul  
RT: 19.561 min Scan# 3620  
Delta R.T. -0.005 min  
Lab File: BM041510.D  
Acq: 26 Aug 2023 01:23

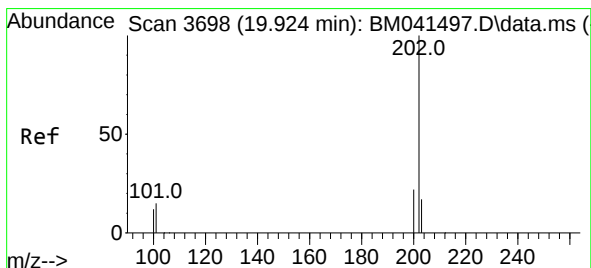
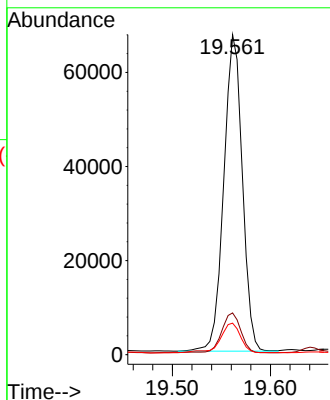
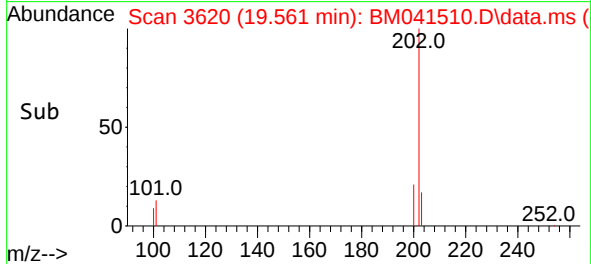
Instrument :  
BNA\_M  
ClientSampleId :  
EZYD5



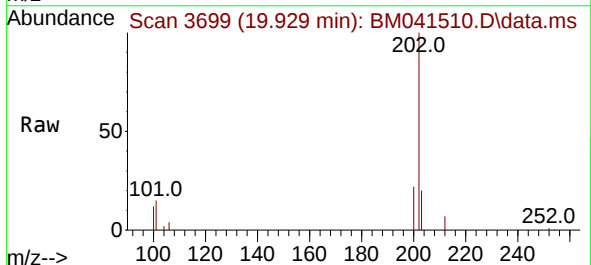
Tgt Ion:202 Resp: 88589  
Ion Ratio Lower Upper  
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100 9.9 7.9 11.9

Manual Integrations  
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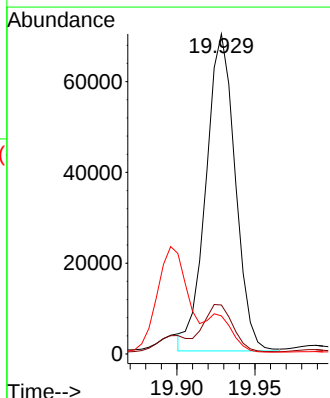
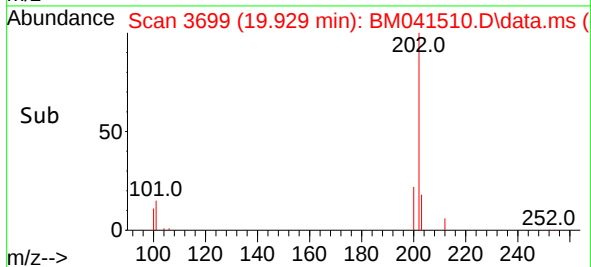
Reviewed By :Yogesh Patel 08/26/2023  
Supervised By :mohammad ahmed 08/26/2023

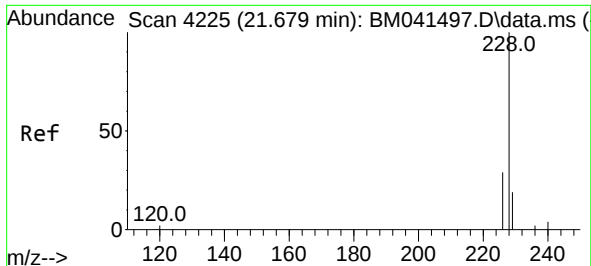


#20  
Pyrene  
Concen: 0.628 ng/ul m  
RT: 19.929 min Scan# 3699  
Delta R.T. -0.005 min  
Lab File: BM041510.D  
Acq: 26 Aug 2023 01:23



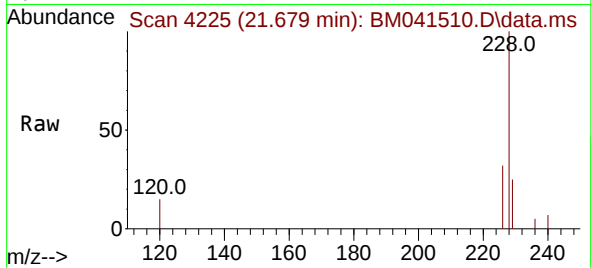
Tgt Ion:202 Resp: 91138  
Ion Ratio Lower Upper  
202 100  
101 15.3 12.2 18.2  
100 11.9 9.8 14.8





#21  
Benzo(a)anthracene  
Concen: 0.434 ng/ul  
RT: 21.679 min Scan# 4225  
Delta R.T. -0.009 min  
Lab File: BM041510.D  
Acq: 26 Aug 2023 01:23

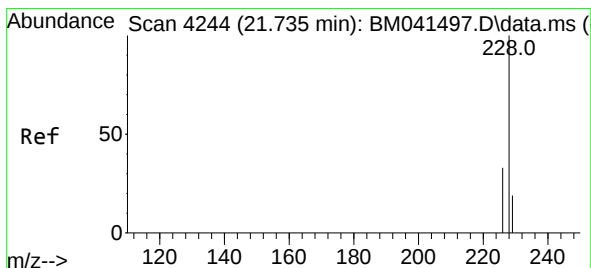
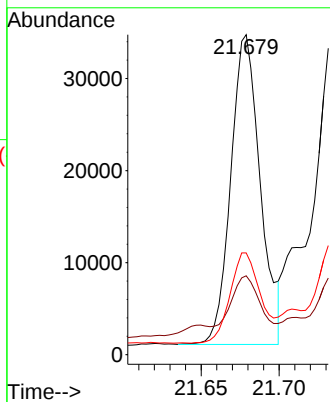
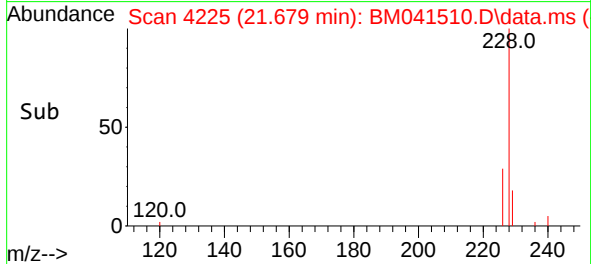
Instrument :  
BNA\_M  
ClientSampleId :  
EZYD5



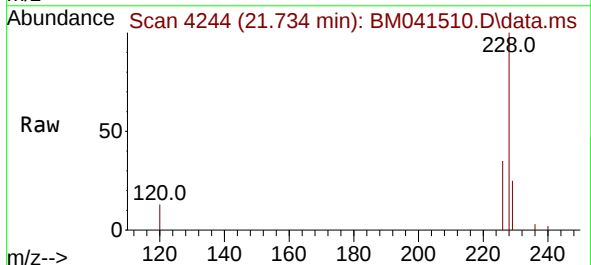
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Ion Ratio Lower Upper  
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229 24.6 15.3 22.9  
226 31.8 22.7 34.1

Manual Integrations  
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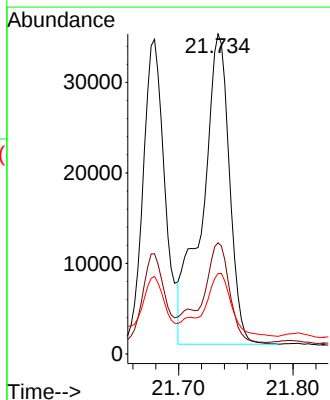
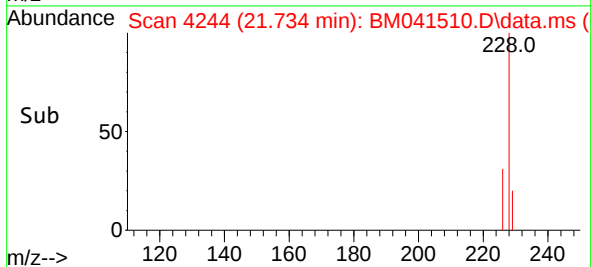
Reviewed By :Yogesh Patel 08/26/2023  
Supervised By :mohammad ahmed 08/26/2023

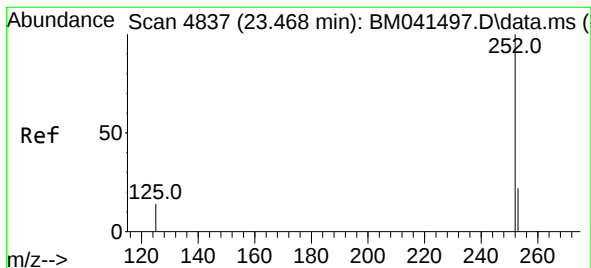


#22  
Chrysene  
Concen: 0.512 ng/ul  
RT: 21.734 min Scan# 4244  
Delta R.T. -0.009 min  
Lab File: BM041510.D  
Acq: 26 Aug 2023 01:23



Tgt Ion:228 Resp: 56423  
Ion Ratio Lower Upper  
228 100  
226 34.8 25.6 38.4  
229 25.1 15.7 23.5





#24

Benzo(b)fluoranthene

Concen: 0.808 ng/ul

RT: 23.471 min Scan# 4838

Delta R.T. -0.012 min

Lab File: BM041510.D

Acq: 26 Aug 2023 01:23

Instrument :

BNA\_M

ClientSampleId :

EZYD5

Tgt Ion:252 Resp: 9223

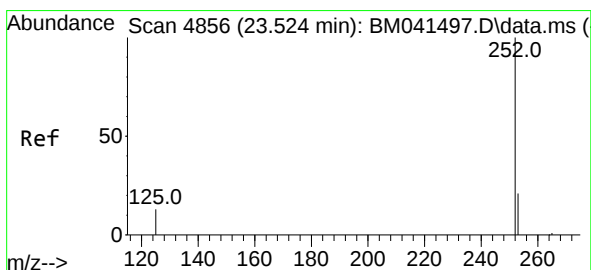
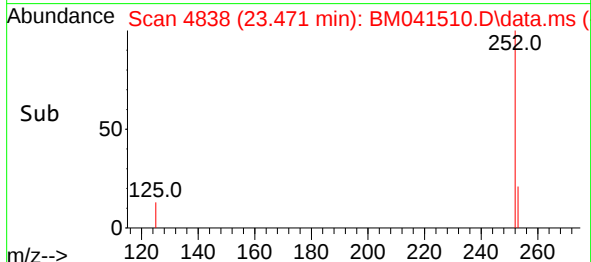
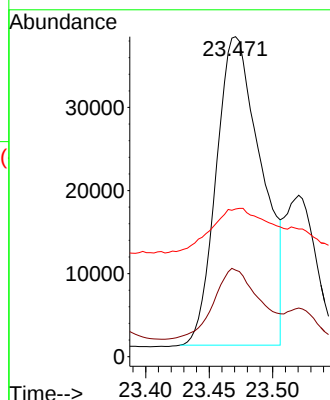
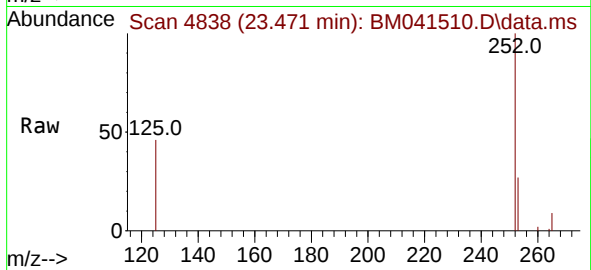
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 27.1  | 0.0   | 46.8  |
| 125 | 46.2  | 0.0   | 32.8  |

Manual Integrations

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Reviewed By :Yogesh Patel 08/26/2023

Supervised By :mohammad ahmed 08/26/2023



#25

Benzo(k)fluoranthene

Concen: 0.276 ng/ul m

RT: 23.520 min Scan# 4855

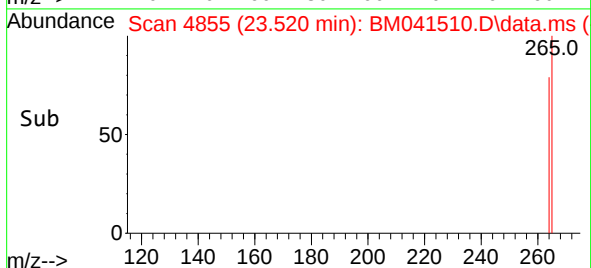
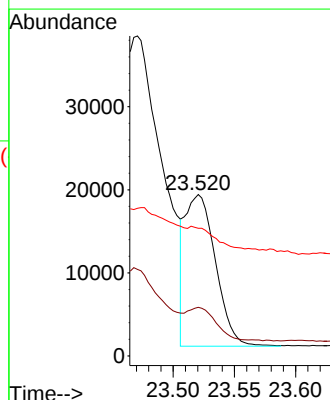
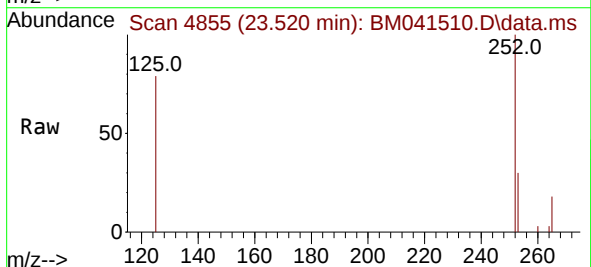
Delta R.T. -0.015 min

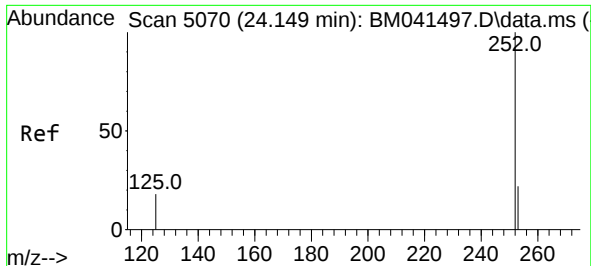
Lab File: BM041510.D

Acq: 26 Aug 2023 01:23

Tgt Ion:252 Resp: 31562

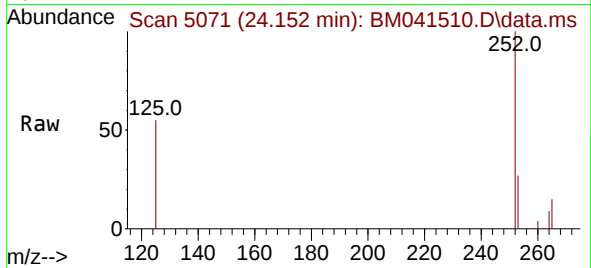
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 30.1  | 19.1  | 28.7# |
| 125 | 79.1  | 13.4  | 20.0# |





#26  
Benzo(a)pyrene  
Concen: 0.572 ng/ul  
RT: 24.152 min Scan# 5071  
Delta R.T. -0.012 min  
Lab File: BM041510.D  
Acq: 26 Aug 2023 01:23

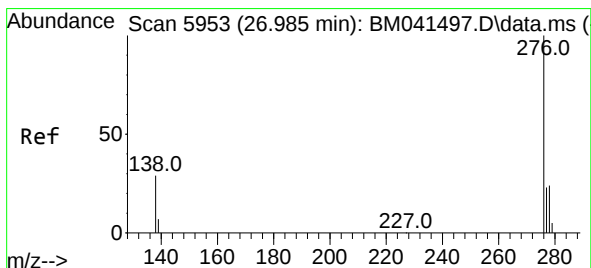
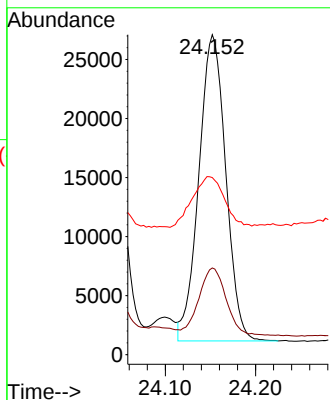
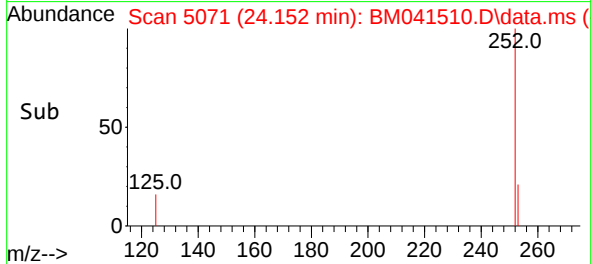
Instrument :  
BNA\_M  
ClientSampleId :  
EZYD5



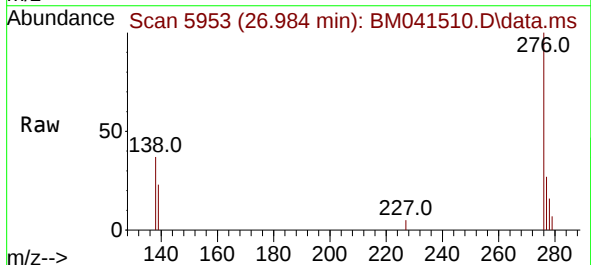
Tgt Ion:252 Resp: 53630  
Ion Ratio Lower Upper  
252 100  
253 27.1 19.5 29.3  
125 55.3 16.0 24.0

Manual Integrations  
APPROVED

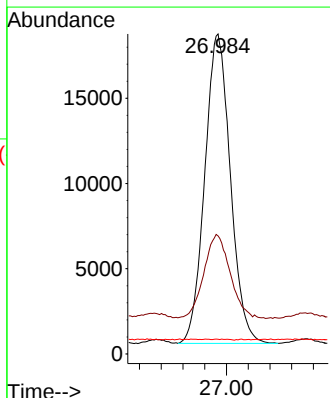
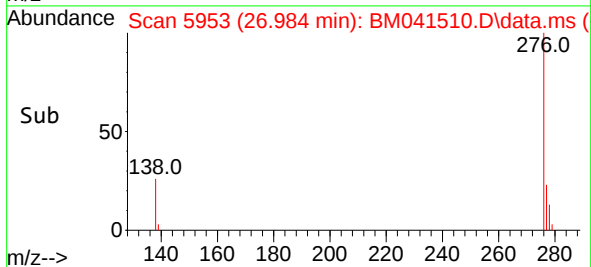
Reviewed By :Yogesh Patel 08/26/2023  
Supervised By :mohammad ahmed 08/26/2023

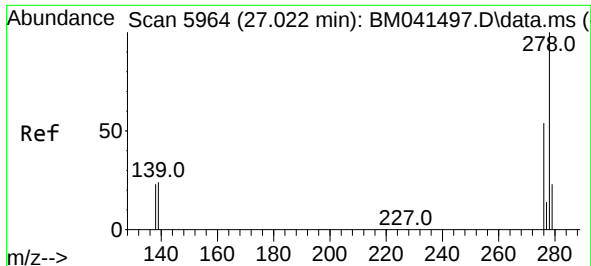


#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.506 ng/ul  
RT: 26.984 min Scan# 5953  
Delta R.T. -0.020 min  
Lab File: BM041510.D  
Acq: 26 Aug 2023 01:23



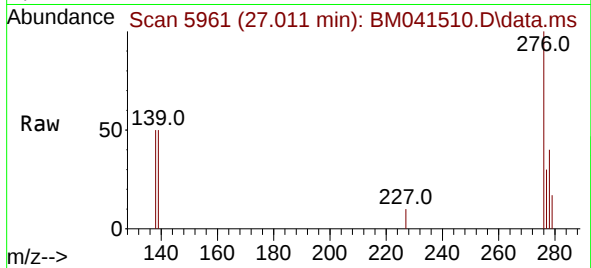
Tgt Ion:276 Resp: 59348  
Ion Ratio Lower Upper  
276 100  
138 28.0 27.8 41.6  
227 0.2 0.0 0.0





#28  
Dibenzo(a,h)anthracene  
Concen: 0.151 ng/ul  
RT: 27.011 min Scan# 5964  
Delta R.T. -0.034 min  
Lab File: BM041510.D  
Acq: 26 Aug 2023 01:23

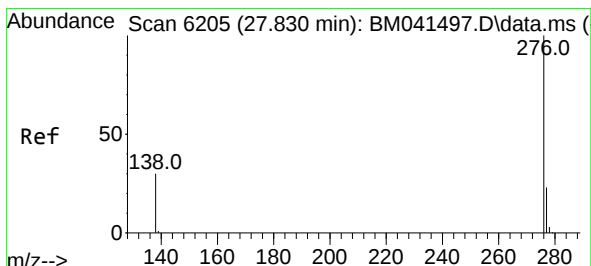
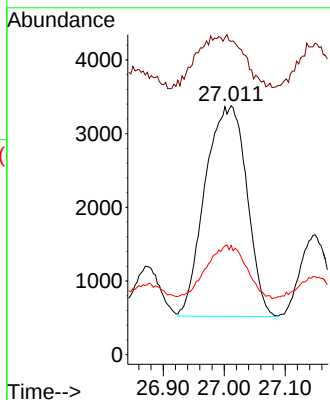
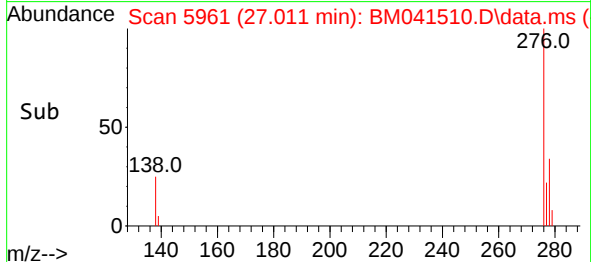
Instrument :  
BNA\_M  
ClientSampleId :  
EZYD5



Tgt Ion:278 Resp: 1356  
Ion Ratio Lower Upper  
278 100  
139 125.8 21.9 32.9  
279 43.9 21.4 32.0

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 08/26/2023  
Supervised By :mohammad ahmed 08/26/2023



#29  
Benzo(g,h,i)perylene  
Concen: 0.570 ng/ul  
RT: 27.836 min Scan# 6207  
Delta R.T. -0.017 min  
Lab File: BM041510.D  
Acq: 26 Aug 2023 01:23

Tgt Ion:276 Resp: 58868  
Ion Ratio Lower Upper  
276 100  
138 38.0 25.9 38.9  
277 26.2 19.4 29.2

