

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM082423\  
 Data File : BM041506.D  
 Acq On : 25 Aug 2023 22:51  
 Operator : MA/JU  
 Sample : 04037-14  
 Misc :  
 ALS Vial : 44 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 EZYH3

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 09/28/2023  
 Supervised By :mohammad ahmed 09/28/2023

Quant Time: Sep 23 07:12:27 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  | 13683    | 0.400  | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.950 | 136  | 38163    | 0.400  | ng/ul  | # 0.00   |
| 9) Acenaphthene-d10         | 14.759 | 164  | 18046    | 0.400  | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.515 | 188  | 28386    | 0.400  | ng/ul  | # 0.00   |
| 17) Chrysene-d12            | 21.705 | 240  | 12225    | 0.400  | ng/ul  | # 0.00   |
| 23) Perylene-d12            | 24.284 | 264  | 15106    | 0.400  | ng/ul  | # 0.00   |
|                             |        |      |          |        |        |          |
| System Monitoring Compounds |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8           | 3.448  | 96   | 97012    | 5.602  | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.528 | 152  | 14421    | 0.286  | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.534 | 212  | 16109    | 0.299  | ng/ul  | 0.00     |
|                             |        |      |          |        |        |          |
| Target Compounds            |        |      |          |        |        |          |
|                             |        |      |          |        | Qvalue |          |
| 2) 1,4-Dioxane              | 3.486  | 88   | 1409     | 0.079  | ng/ul# | 36       |
| 5) Naphthalene              | 10.999 | 128  | 699608   | 6.151  | ng/ul  | 100      |
| 7) 2-Methylnaphthalene      | 12.599 | 142  | 179959   | 2.634  | ng/ul  | 100      |
| 8) 1-Methylnaphthalene      | 12.814 | 142  | 116270   | 1.673  | ng/ul  | 99       |
| 10) Acenaphthylene          | 14.486 | 152  | 14001    | 0.129  | ng/ul# | 60       |
| 11) Acenaphthene            | 14.819 | 153  | 72830    | 0.966  | ng/ul  | 98       |
| 12) Fluorene                | 15.804 | 166  | 97727    | 1.158  | ng/ul  | 96       |
| 15) Phenanthrene            | 17.557 | 178  | 1108351  | 10.635 | ng/ul  | 98       |
| 16) Anthracene              | 17.650 | 178  | 235633   | 2.485  | ng/ul# | 96       |
| 19) Fluoranthene            | 19.566 | 202  | 1859533  | 16.573 | ng/ul  | 100      |
| 20) Pyrene                  | 19.933 | 202  | 1632619m | 14.426 | ng/ul  |          |
| 21) Benzo(a)anthracene      | 21.688 | 228  | 428749   | 5.389  | ng/ul# | 93       |
| 22) Chrysene                | 21.743 | 228  | 439002   | 5.107  | ng/ul# | 93       |
| 24) Benzo(b)fluoranthene    | 23.483 | 252  | 484160   | 4.680  | ng/ul# | 69       |
| 25) Benzo(k)fluoranthene    | 23.532 | 252  | 160168m  | 1.547  | ng/ul  |          |
| 26) Benzo(a)pyrene          | 24.167 | 252  | 349357   | 4.110  | ng/ul# | 73       |
| 27) Indeno(1,2,3-cd)pyrene  | 27.008 | 276  | 244727   | 2.304  | ng/ul# | 85       |
| 28) Dibenzo(a,h)anthracene  | 27.032 | 278  | 52174    | 0.642  | ng/ul# | 1        |
| 29) Benzo(g,h,i)perylene    | 27.860 | 276  | 263027   | 2.812  | ng/ul  | 94       |
| -----                       |        |      |          |        |        |          |

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

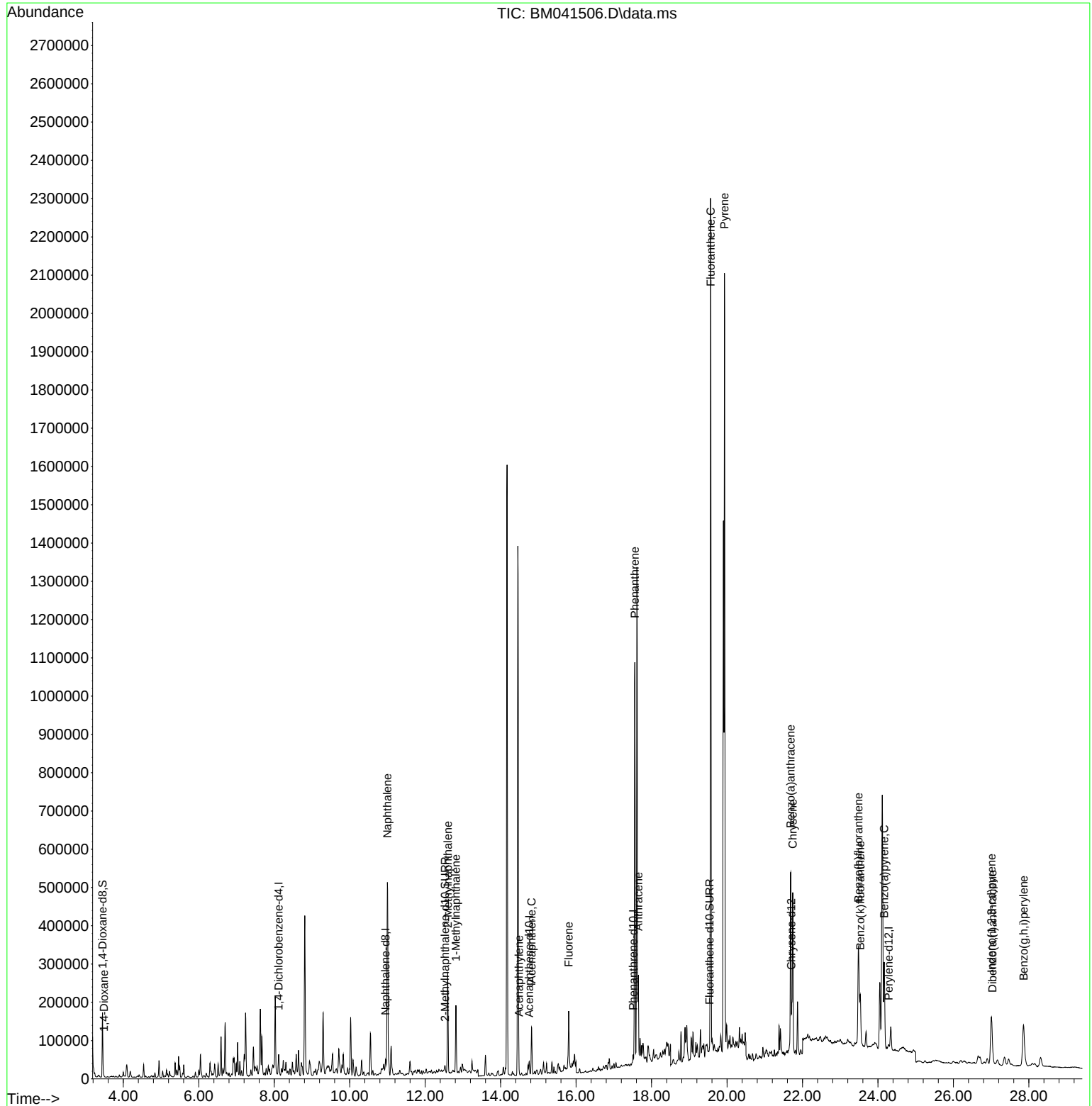
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM082423\  
Data File : BM041506.D  
Acq On : 25 Aug 2023 22:51  
Operator : MA/JU  
Sample : 04037-14  
Misc :  
ALS Vial : 44 Sample Multiplier: 1

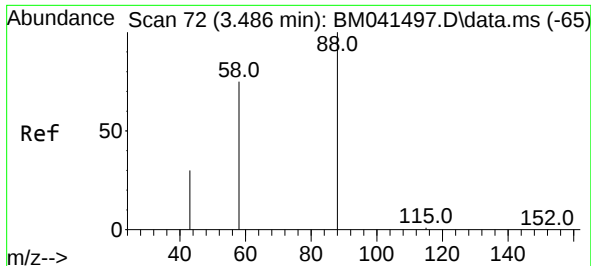
Instrument :  
BNA\_M  
ClientSampleId :  
EZYH3

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 09/28/2023  
Supervised By :mohammad ahmed 09/28/2023

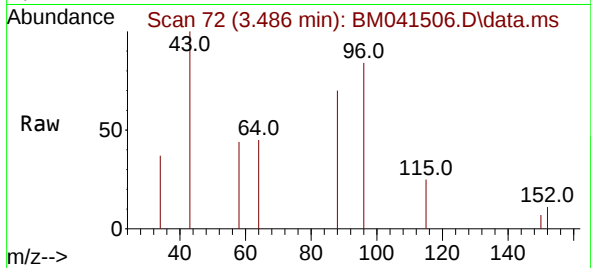
Quant Time: Sep 23 07:12:27 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM082423.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Aug 24 18:34:12 2023  
Response via : Initial Calibration





#2  
1,4-Dioxane  
Concen: 0.079 ng/ul  
RT: 3.486 min Scan# 71  
Delta R.T. 0.000 min  
Lab File: BM041506.D  
Acq: 25 Aug 2023 22:51

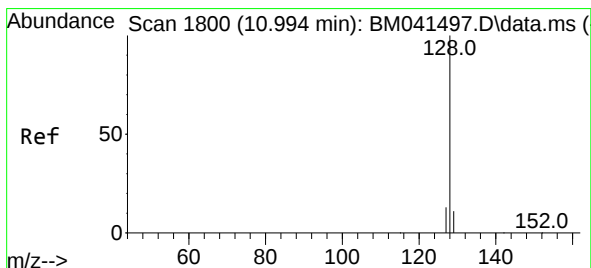
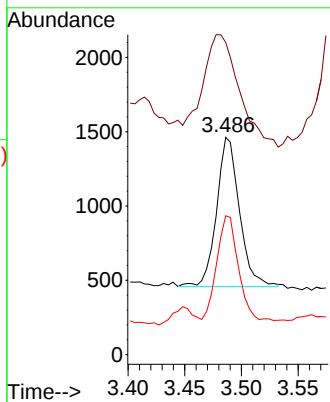
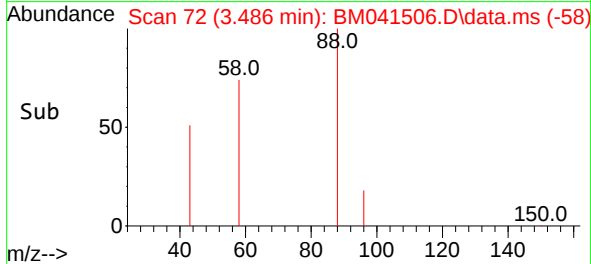
Instrument :  
BNA\_M  
ClientSampleId :  
EZYH3



Tgt Ion: 88 Resp: 1409  
Ion Ratio Lower Upper  
88 100  
43 143.6 35.4 53.2  
58 63.9 57.3 85.9

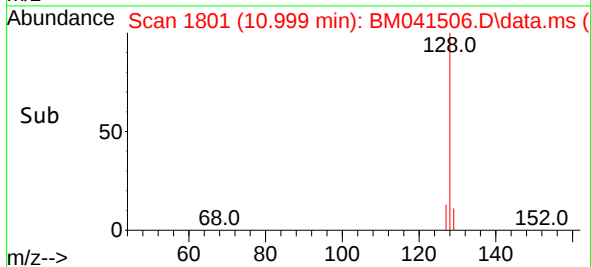
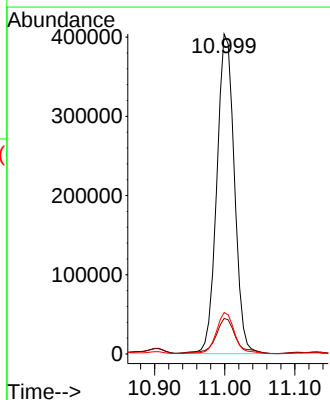
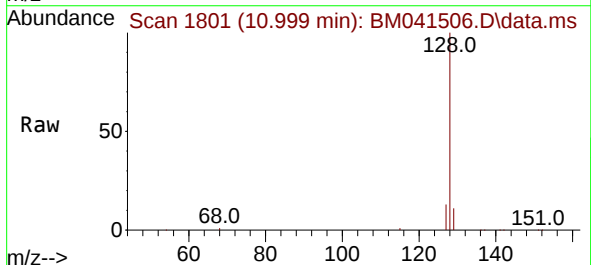
Manual Integrations  
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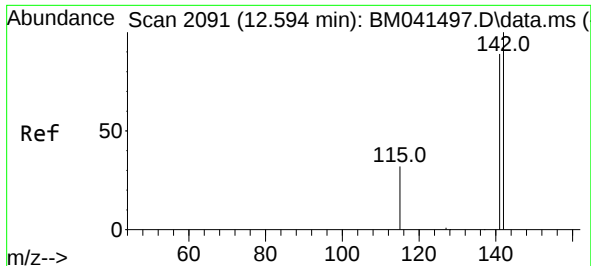
Reviewed By :Yogesh Patel 09/28/2023  
Supervised By :mohammad ahmed 09/28/2023



#5  
Naphthalene  
Concen: 6.151 ng/ul  
RT: 10.999 min Scan# 1801  
Delta R.T. 0.000 min  
Lab File: BM041506.D  
Acq: 25 Aug 2023 22:51

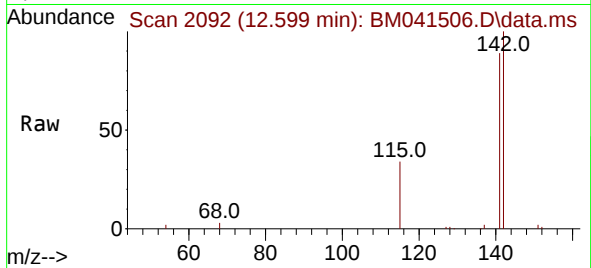
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Ion Ratio Lower Upper  
128 100  
129 11.1 8.9 13.3  
127 13.0 10.6 15.8





#7  
2-Methylnaphthalene  
Concen: 2.634 ng/ul  
RT: 12.599 min Scan# 2092  
Delta R.T. 0.000 min  
Lab File: BM041506.D  
Acq: 25 Aug 2023 22:51

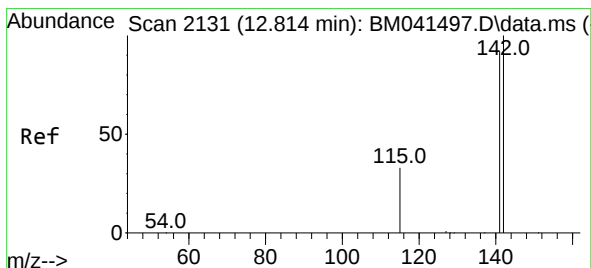
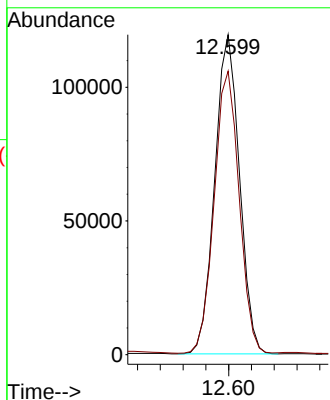
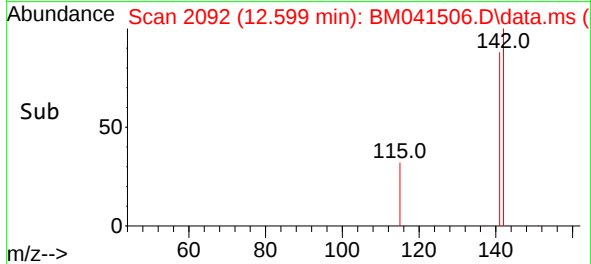
Instrument :  
BNA\_M  
ClientSampleId :  
EZYH3



Tgt Ion:142 Resp: 179959  
Ion Ratio Lower Upper  
142 100  
141 89.0 71.1 106.7

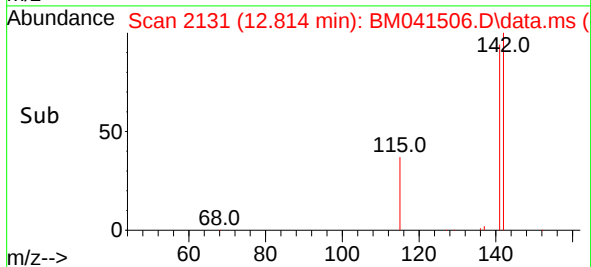
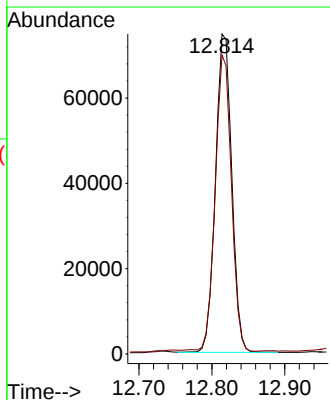
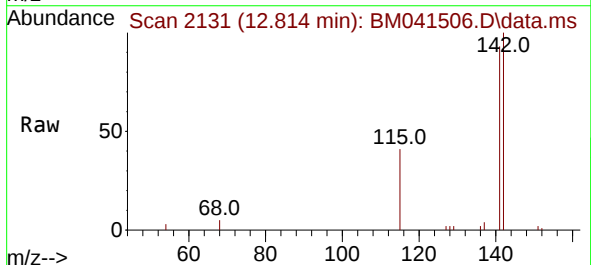
Manual Integrations  
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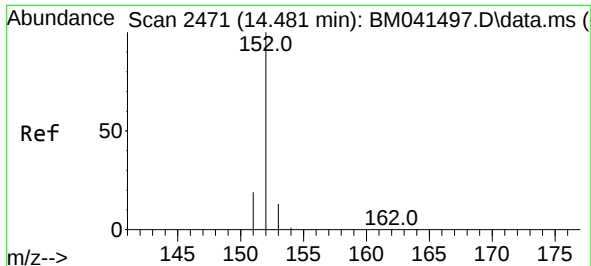
Reviewed By :Yogesh Patel 09/28/2023  
Supervised By :mohammad ahmed 09/28/2023



#8  
1-Methylnaphthalene  
Concen: 1.673 ng/ul  
RT: 12.814 min Scan# 2131  
Delta R.T. -0.005 min  
Lab File: BM041506.D  
Acq: 25 Aug 2023 22:51

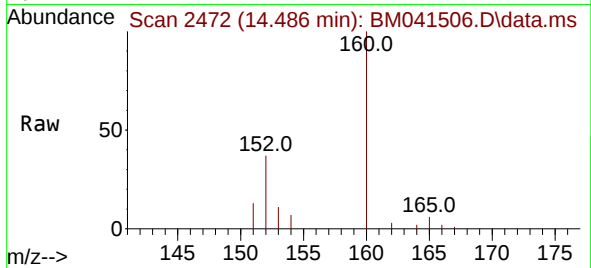
Tgt Ion:142 Resp: 116270  
Ion Ratio Lower Upper  
142 100  
141 92.5 73.4 110.2





#10  
Acenaphthylene  
Concen: 0.129 ng/u1  
RT: 14.486 min Scan# 2471  
Delta R.T. 0.000 min  
Lab File: BM041506.D  
Acq: 25 Aug 2023 22:51

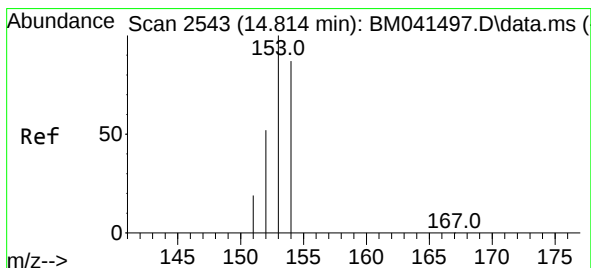
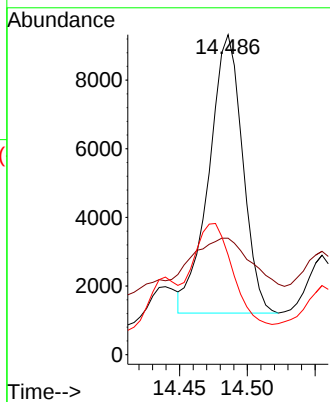
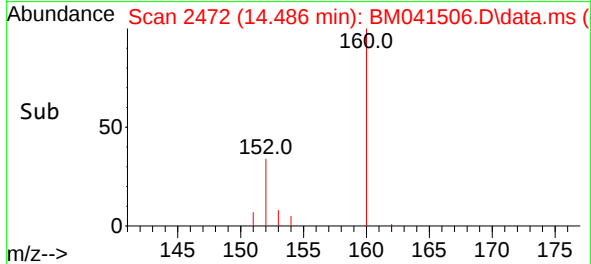
Instrument :  
BNA\_M  
ClientSampleId :  
EZYH3



Tgt Ion:152 Resp: 1400  
Ion Ratio Lower Upper  
152 100  
151 36.4 15.8 23.6  
153 31.2 10.6 15.8

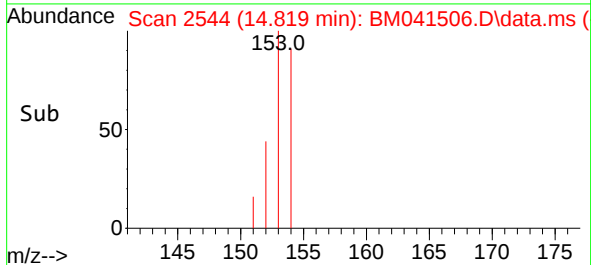
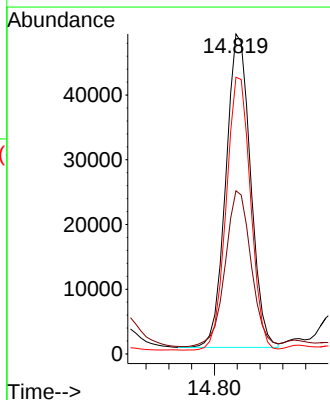
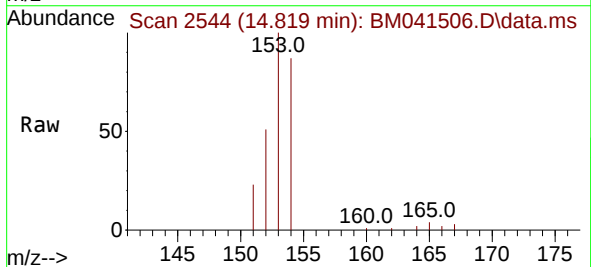
Manual Integrations  
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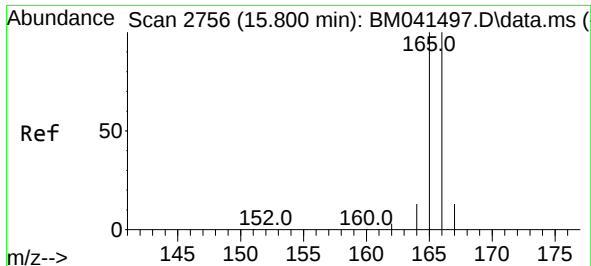
Reviewed By :Yogesh Patel 09/28/2023  
Supervised By :mohammad ahmed 09/28/2023



#11  
Acenaphthene  
Concen: 0.966 ng/u1  
RT: 14.819 min Scan# 2544  
Delta R.T. 0.000 min  
Lab File: BM041506.D  
Acq: 25 Aug 2023 22:51

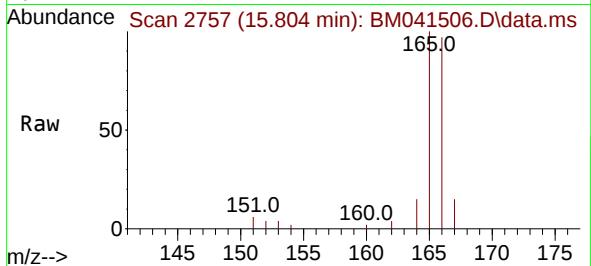
Tgt Ion:153 Resp: 72830  
Ion Ratio Lower Upper  
153 100  
152 51.0 42.9 64.3  
154 86.5 68.9 103.3





#12  
Fluorene  
Concen: 1.158 ng/ul  
RT: 15.804 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BM041506.D  
Acq: 25 Aug 2023 22:51

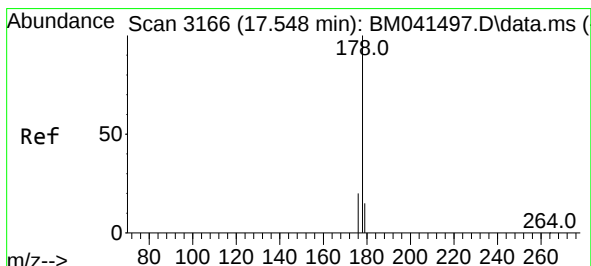
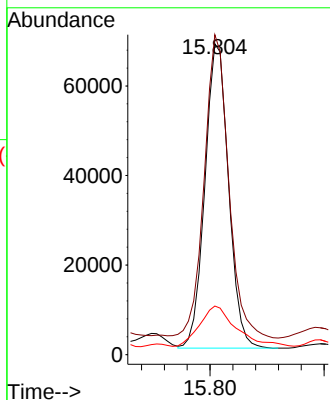
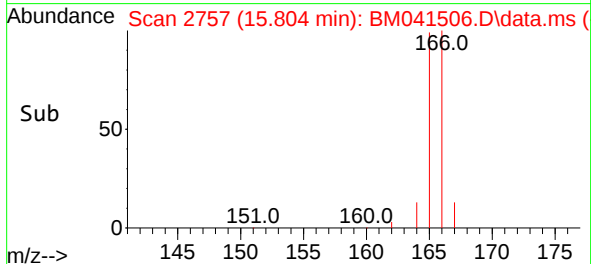
Instrument :  
BNA\_M  
ClientSampleId :  
EZYH3



Tgt Ion:166 Resp: 9772  
Ion Ratio Lower Upper  
166 100  
165 102.9 79.4 119.2  
167 15.6 11.0 16.6

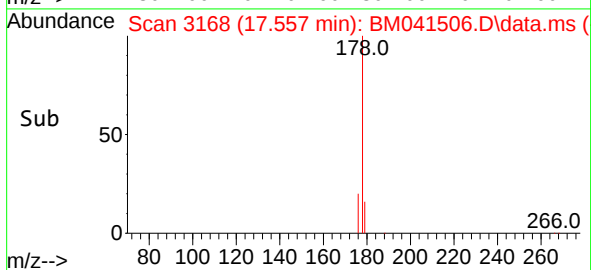
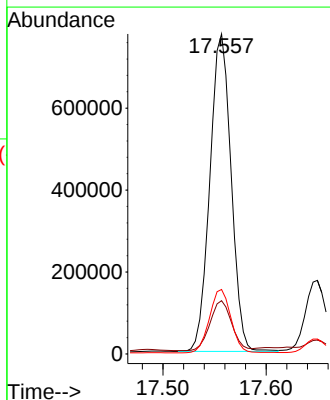
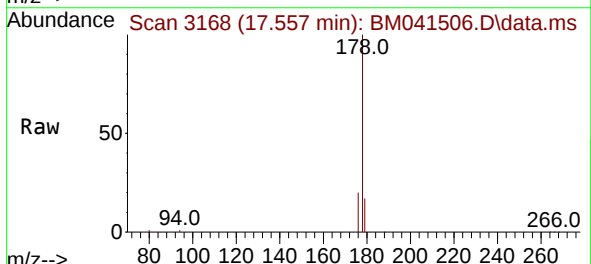
Manual Integrations  
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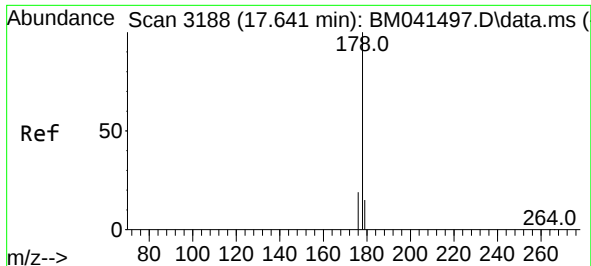
Reviewed By :Yogesh Patel 09/28/2023  
Supervised By :mohammad ahmed 09/28/2023



#15  
Phenanthrene  
Concen: 10.635 ng/ul  
RT: 17.557 min Scan# 3168  
Delta R.T. 0.000 min  
Lab File: BM041506.D  
Acq: 25 Aug 2023 22:51

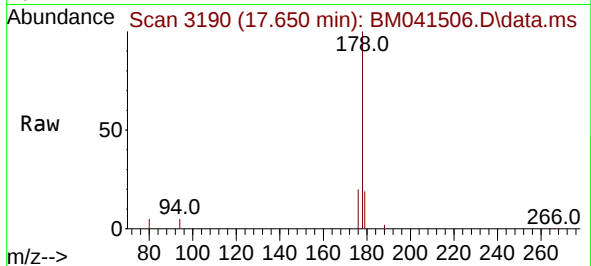
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Ion Ratio Lower Upper  
178 100  
179 16.7 12.5 18.7  
176 20.1 15.8 23.8





#16  
 Anthracene  
 Concen: 2.485 ng/ul  
 RT: 17.650 min Scan# 3188  
 Delta R.T. 0.004 min  
 Lab File: BM041506.D  
 Acq: 25 Aug 2023 22:51

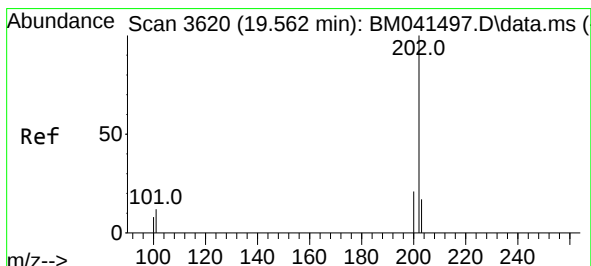
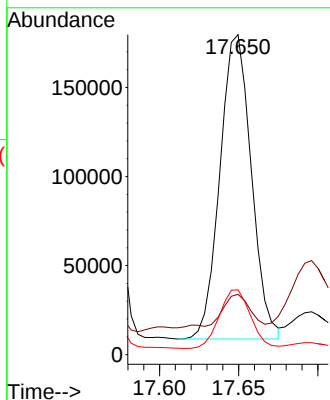
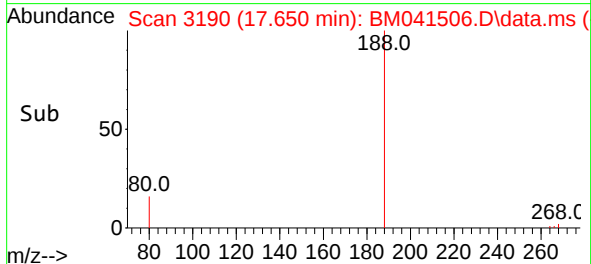
Instrument :  
 BNA\_M  
 ClientSampleId :  
 EZYH3



Tgt Ion:178 Resp: 235633  
 Ion Ratio Lower Upper  
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 179 18.9 12.6 18.8  
 176 20.2 15.5 23.3

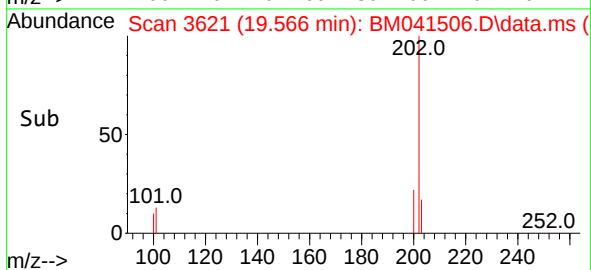
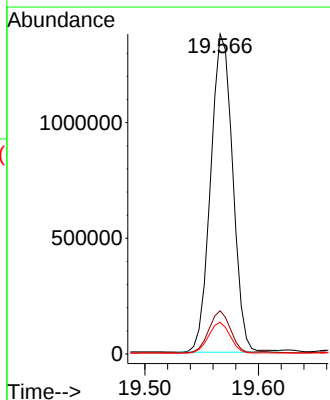
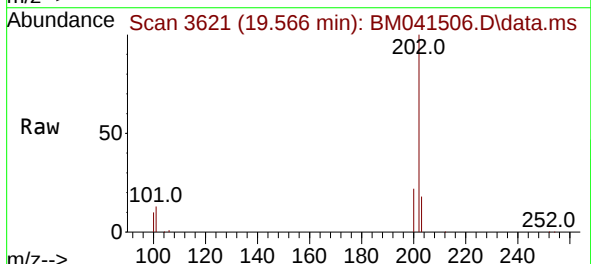
Manual Integrations  
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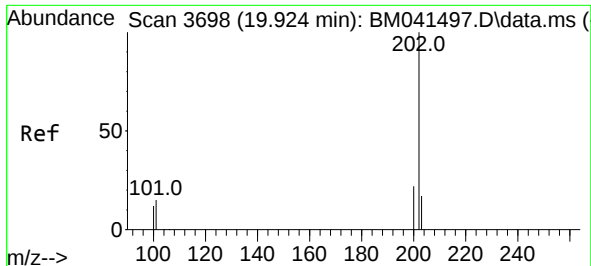
Reviewed By :Yogesh Patel 09/28/2023  
 Supervised By :mohammad ahmed 09/28/2023



#19  
 Fluoranthene  
 Concen: 16.573 ng/ul  
 RT: 19.566 min Scan# 3621  
 Delta R.T. 0.000 min  
 Lab File: BM041506.D  
 Acq: 25 Aug 2023 22:51

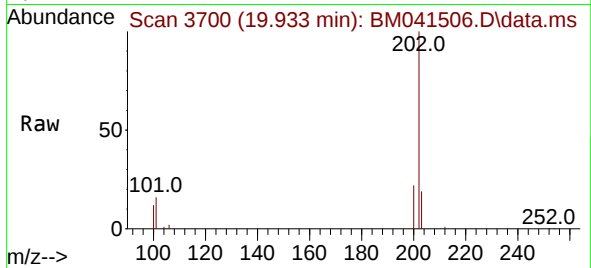
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 Ion Ratio Lower Upper  
 202 100  
 101 13.5 11.0 16.6  
 100 9.9 7.9 11.9





#20  
Pyrene  
Concen: 14.426 ng/ul m  
RT: 19.933 min Scan# 3  
Delta R.T. 0.000 min  
Lab File: BM041506.D  
Acq: 25 Aug 2023 22:51

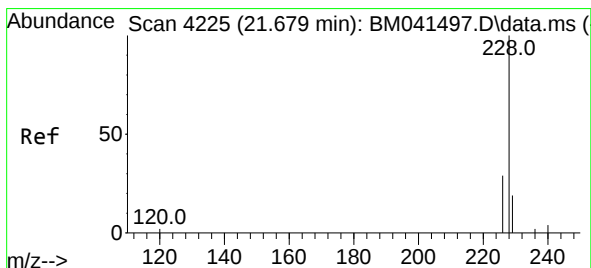
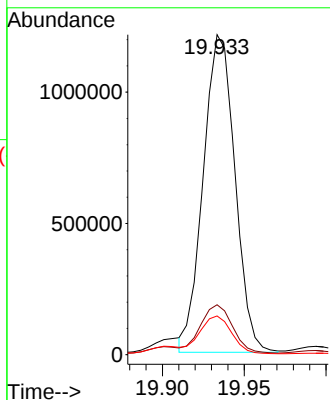
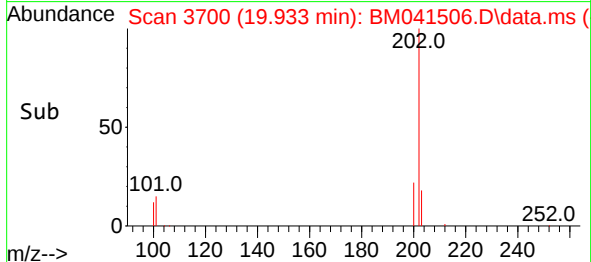
Instrument :  
BNA\_M  
ClientSampleId :  
EZYH3



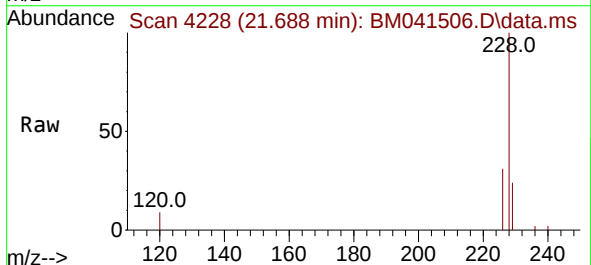
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100 12.1 9.8 14.8

Manual Integrations  
APPROVED

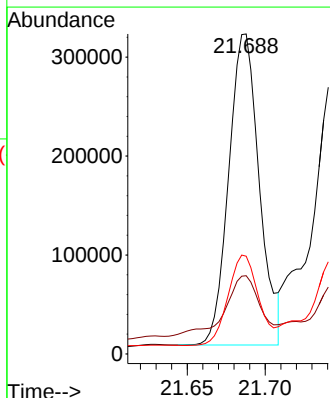
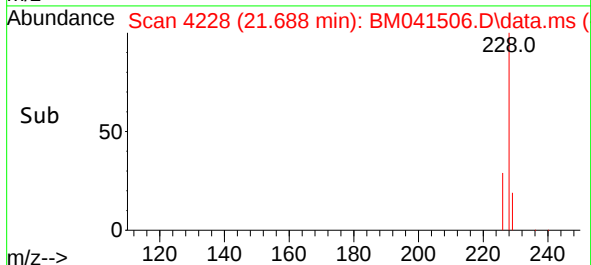
Reviewed By :Yogesh Patel 09/28/2023  
Supervised By :mohammad ahmed 09/28/2023

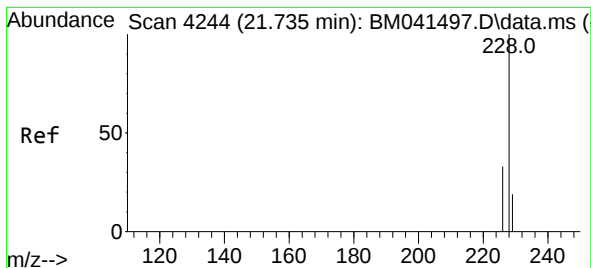


#21  
Benzo(a)anthracene  
Concen: 5.389 ng/ul  
RT: 21.688 min Scan# 4228  
Delta R.T. 0.000 min  
Lab File: BM041506.D  
Acq: 25 Aug 2023 22:51



Tgt Ion:228 Resp: 428749  
Ion Ratio Lower Upper  
228 100  
229 24.4 15.3 22.9#  
226 30.5 22.7 34.1





#22

Chrysene

Concen: 5.107 ng/u1

RT: 21.743 min Scan# 41

Delta R.T. 0.000 min

Lab File: BM041506.D

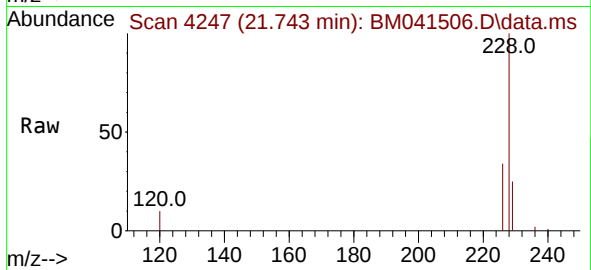
Acq: 25 Aug 2023 22:51

Instrument :

BNA\_M

ClientSampleId :

EZYH3



Tgt Ion:228 Resp: 43900

Ion Ratio Lower Upper

228 100

226 34.0 25.6 38.4

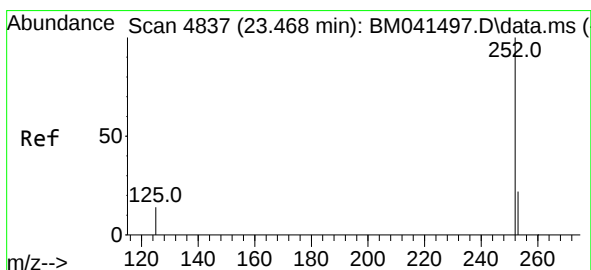
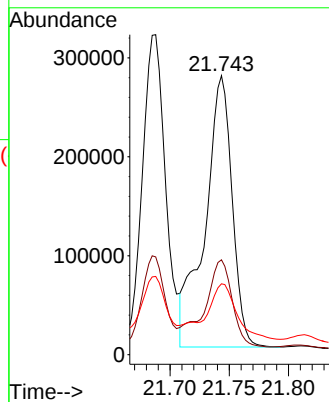
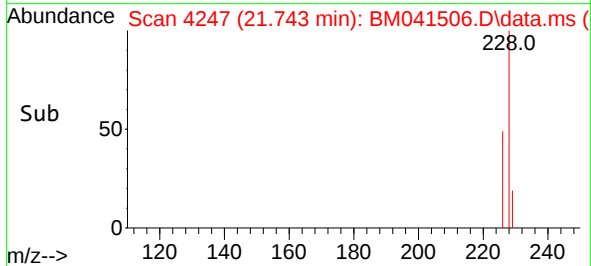
229 25.4 15.7 23.5

Manual Integrations

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Reviewed By :Yogesh Patel 09/28/2023

Supervised By :mohammad ahmed 09/28/2023



#24

Benzo(b)fluoranthene

Concen: 4.680 ng/u1

RT: 23.483 min Scan# 4842

Delta R.T. 0.000 min

Lab File: BM041506.D

Acq: 25 Aug 2023 22:51

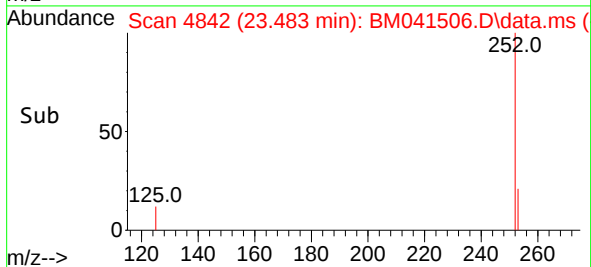
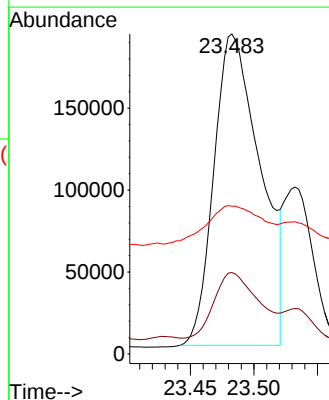
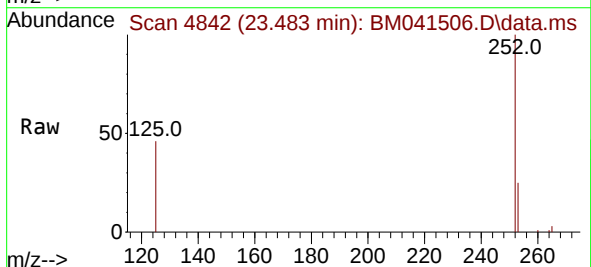
Tgt Ion:252 Resp: 484160

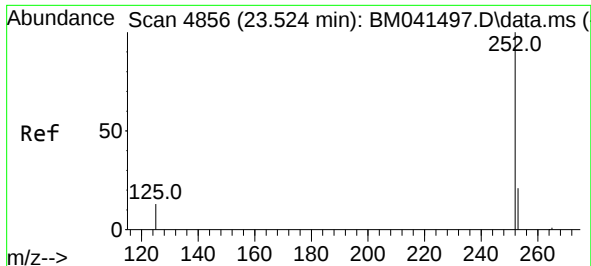
Ion Ratio Lower Upper

252 100

253 25.4 0.0 46.8

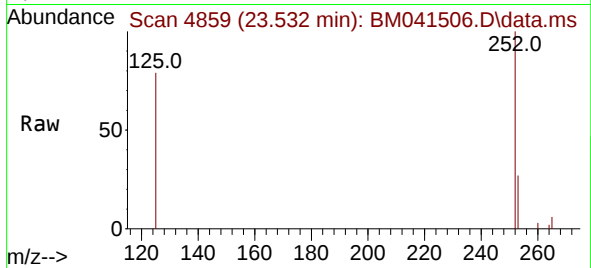
125 46.1 0.0 32.8





#25  
Benzo(k)fluoranthene  
Concen: 1.547 ng/ul m  
RT: 23.532 min Scan# 4856  
Delta R.T. -0.003 min  
Lab File: BM041506.D  
Acq: 25 Aug 2023 22:51

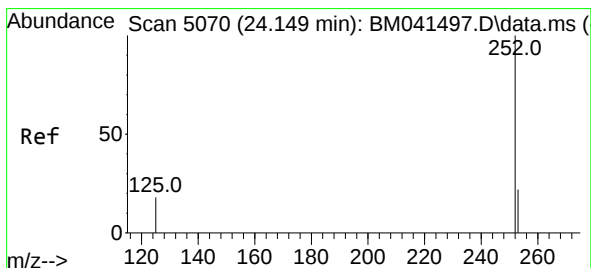
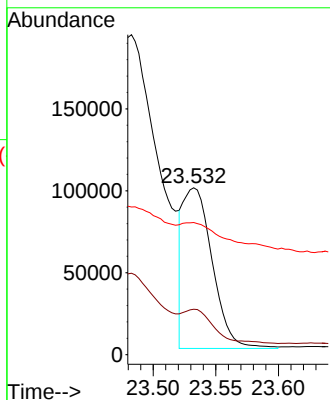
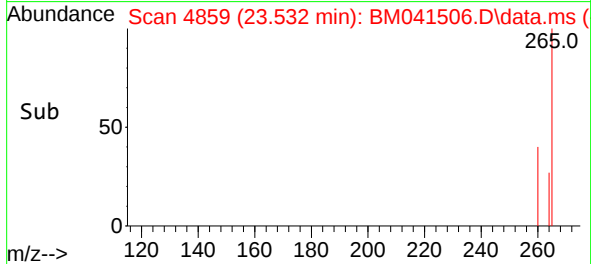
Instrument :  
BNA\_M  
ClientSampleId :  
EZYH3



Tgt Ion:252 Resp: 160168  
Ion Ratio Lower Upper  
252 100  
253 27.2 19.1 28.7  
125 79.2 13.4 20.0

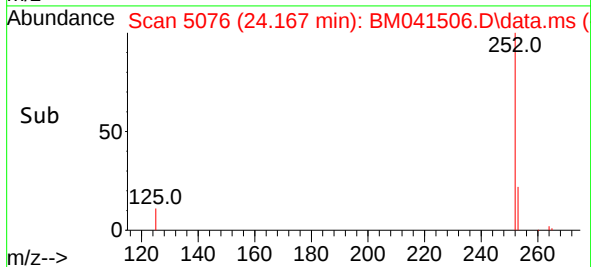
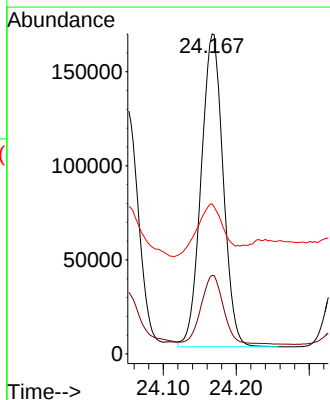
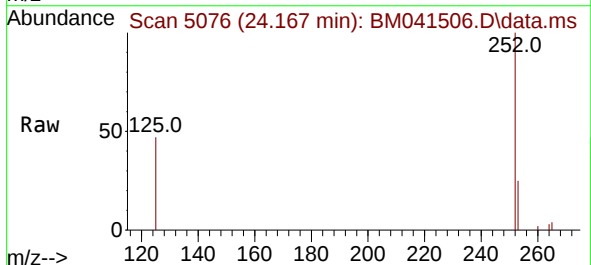
Manual Integrations  
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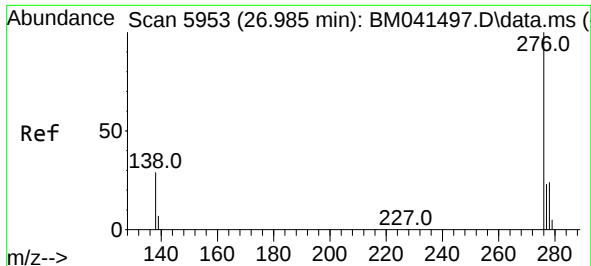
Reviewed By :Yogesh Patel 09/28/2023  
Supervised By :mohammad ahmed 09/28/2023



#26  
Benzo(a)pyrene  
Concen: 4.110 ng/ul  
RT: 24.167 min Scan# 5076  
Delta R.T. 0.003 min  
Lab File: BM041506.D  
Acq: 25 Aug 2023 22:51

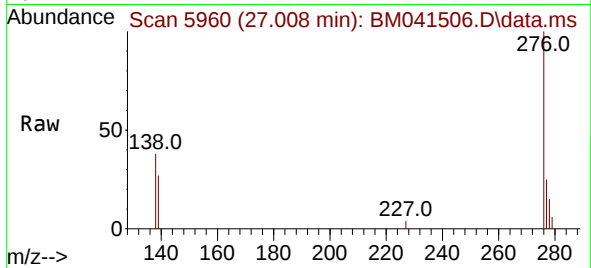
Tgt Ion:252 Resp: 349357  
Ion Ratio Lower Upper  
252 100  
253 24.5 19.5 29.3  
125 46.9 16.0 24.0





#27  
Indeno(1,2,3-cd)pyrene  
Concen: 2.304 ng/ul  
RT: 27.008 min Scan# 5960  
Delta R.T. 0.003 min  
Lab File: BM041506.D  
Acq: 25 Aug 2023 22:51

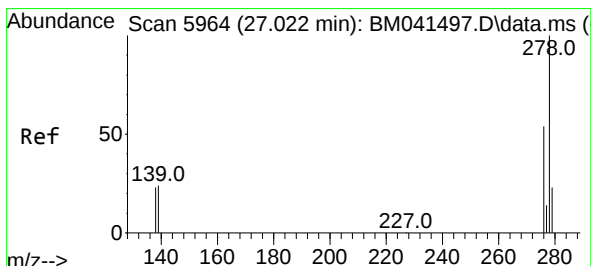
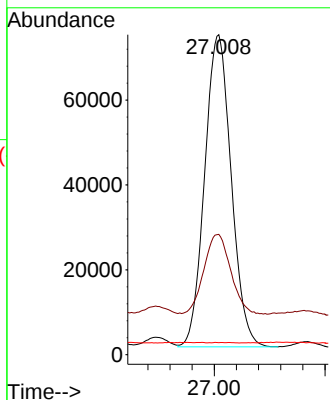
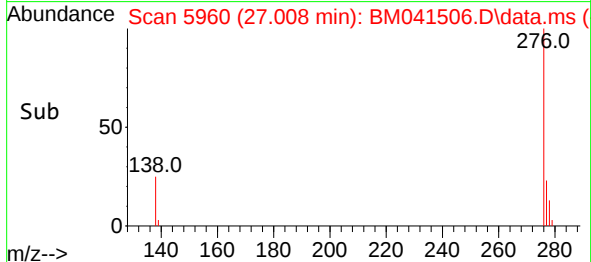
Instrument :  
BNA\_M  
ClientSampleId :  
EZYH3



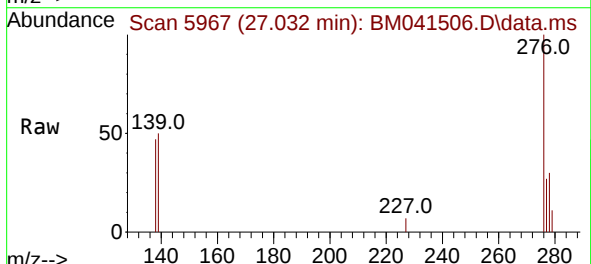
Tgt Ion:276 Resp: 24472  
Ion Ratio Lower Upper  
276 100  
138 25.9 27.8 41.6  
227 0.0 0.0 0.0

Manual Integrations  
APPROVED

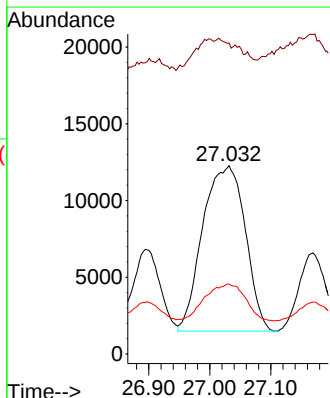
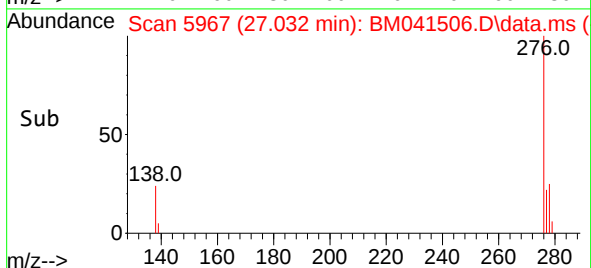
Reviewed By :Yogesh Patel 09/28/2023  
Supervised By :mohammad ahmed 09/28/2023

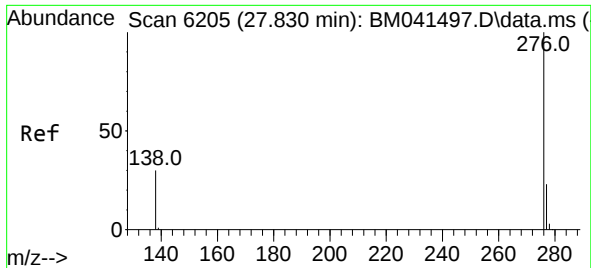


#28  
Dibenzo(a,h)anthracene  
Concen: 0.642 ng/ul  
RT: 27.032 min Scan# 5967  
Delta R.T. -0.013 min  
Lab File: BM041506.D  
Acq: 25 Aug 2023 22:51



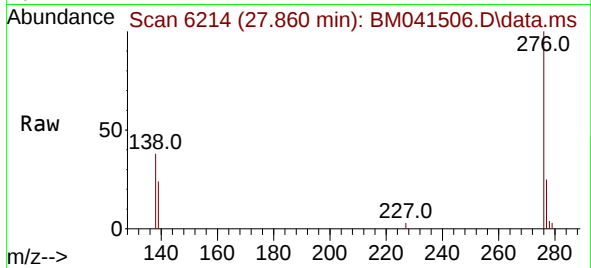
Tgt Ion:278 Resp: 52174  
Ion Ratio Lower Upper  
278 100  
139 165.2 21.9 32.9#  
279 37.1 21.4 32.0#





#29  
 Benzo(g,h,i)perylene  
 Concen: 2.812 ng/ul  
 RT: 27.860 min Scan# 61  
 Delta R.T. 0.007 min  
 Lab File: BM041506.D  
 Acq: 25 Aug 2023 22:51

Instrument :  
 BNA\_M  
 ClientSampleId :  
 EZYH3



Tgt Ion:276 Resp: 26302  
 Ion Ratio Lower Upper  
 276 100  
 138 37.8 25.9 38.9  
 277 25.3 19.4 29.2

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 09/28/2023  
 Supervised By :mohammad ahmed 09/28/2023

