

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM061623\  
 Data File : BM040299.D  
 Acq On : 17 Jun 2023 02:26  
 Operator : MA/JU  
 Sample : 03080-11DL 5X  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 DCFJ0DL

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 06/19/2023  
 Supervised By :mohammad ahmed 06/20/2023

Quant Time: Jun 17 02:58:12 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM061423.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jun 15 00:31:16 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.970  | 152  | 9631     | 0.400 | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.778 | 136  | 31657    | 0.400 | ng/ul  | 0.00     |
| 9) Acenaphthene-d10         | 14.605 | 164  | 14106    | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.349 | 188  | 24392    | 0.400 | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.526 | 240  | 19125    | 0.400 | ng/ul  | # 0.00   |
| 23) Perylene-d12            | 23.953 | 264  | 22558    | 0.400 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.354  | 96   | 9749     | 0.820 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.367 | 152  | 1759     | 0.044 | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.375 | 212  | 2370     | 0.050 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.828 | 128  | 9479     | 0.126 | ng/ul  | 95       |
| 7) 2-Methylnaphthalene      | 12.439 | 142  | 5323     | 0.114 | ng/ul  | 100      |
| 8) 1-Methylnaphthalene      | 12.659 | 142  | 4019     | 0.082 | ng/ul  | 99       |
| 10) Acenaphthylene          | 14.327 | 152  | 13369    | 0.271 | ng/ul  | 98       |
| 11) Acenaphthene            | 14.670 | 153  | 3933     | 0.093 | ng/ul  | 97       |
| 12) Fluorene                | 15.655 | 166  | 3524     | 0.075 | ng/ul# | 94       |
| 15) Phenanthrene            | 17.391 | 178  | 92860    | 1.448 | ng/ul  | 99       |
| 16) Anthracene              | 17.484 | 178  | 18223    | 0.335 | ng/ul  | 99       |
| 19) Fluoranthene            | 19.403 | 202  | 263688   | 4.048 | ng/ul  | 99       |
| 20) Pyrene                  | 19.765 | 202  | 242685   | 3.585 | ng/ul  | 98       |
| 21) Benzo(a)anthracene      | 21.509 | 228  | 125665   | 2.226 | ng/ul  | 97       |
| 22) Chrysene                | 21.564 | 228  | 146075   | 2.450 | ng/ul  | 97       |
| 24) Benzo(b)fluoranthene    | 23.213 | 252  | 260366   | 3.131 | ng/ul  | 93       |
| 25) Benzo(k)fluoranthene    | 23.257 | 252  | 83387m   | 1.065 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.841 | 252  | 169582   | 2.485 | ng/ul# | 88       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.464 | 276  | 150683   | 1.744 | ng/ul# | 92       |
| 28) Dibenzo(a,h)anthracene  | 26.474 | 278  | 34908    | 0.503 | ng/ul# | 88       |
| 29) Benzo(g,h,i)perylene    | 27.245 | 276  | 144376   | 2.001 | ng/ul  | 99       |
| -----                       |        |      |          |       |        |          |

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

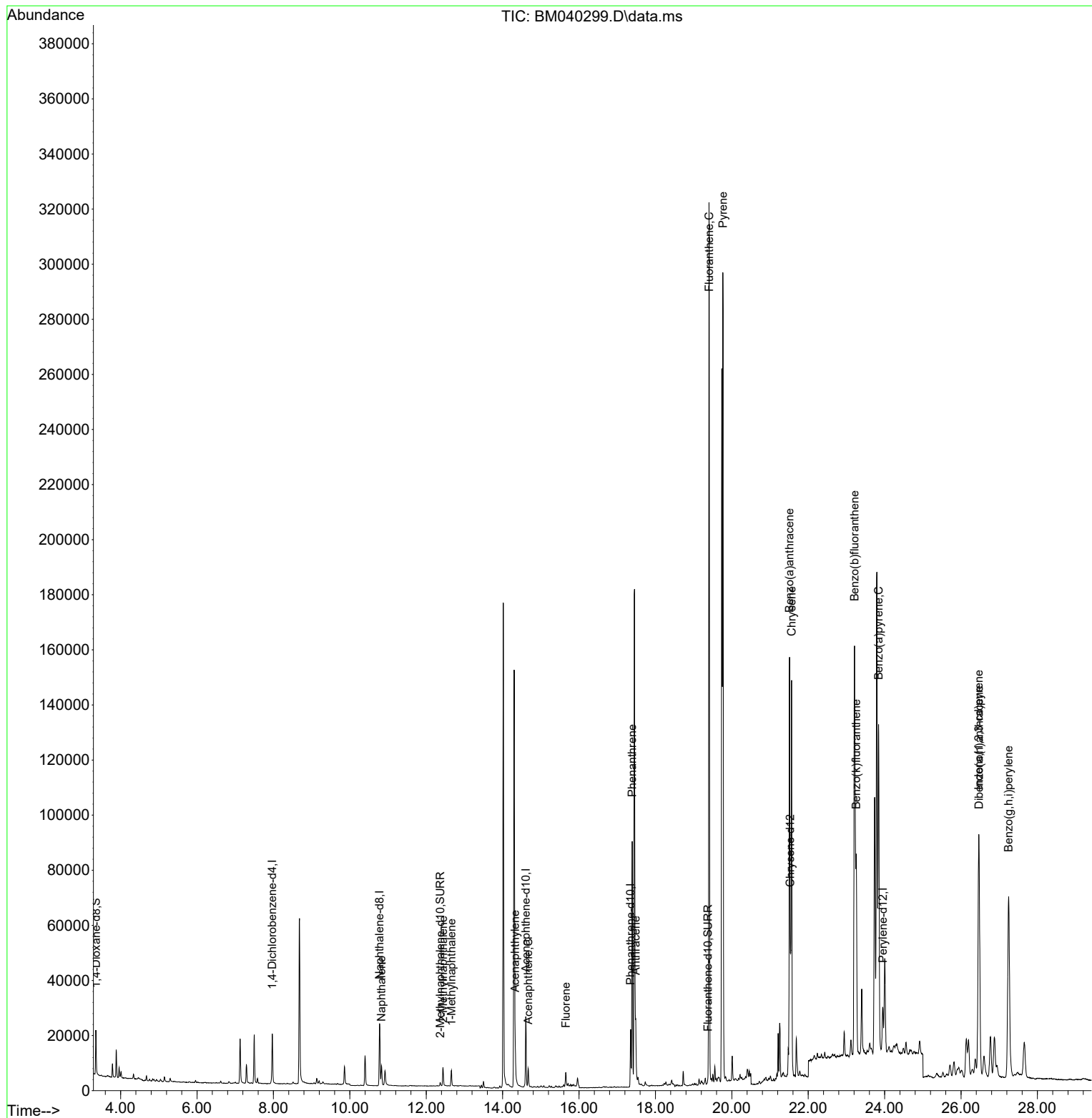
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM061623\  
Data File : BM040299.D  
Acq On : 17 Jun 2023 02:26  
Operator : MA/JU  
Sample : 03080-11DL 5X  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

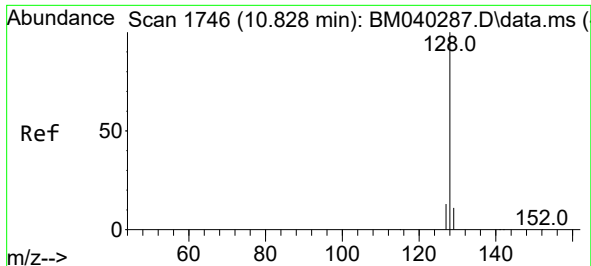
Instrument :  
BNA\_M  
ClientSampleId :  
DCFJ0DL

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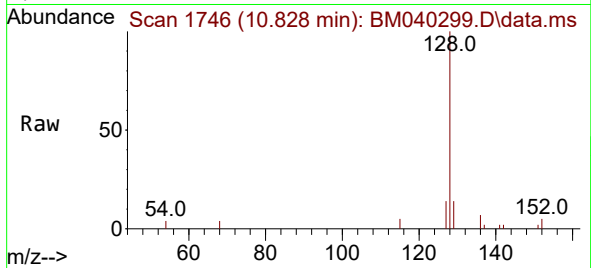
Quant Time: Jun 17 02:58:12 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM061423.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jun 15 00:31:16 2023  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.126 ng/ul  
RT: 10.828 min Scan# 1746  
Delta R.T. -0.006 min  
Lab File: BM040299.D  
Acq: 17 Jun 2023 02:26

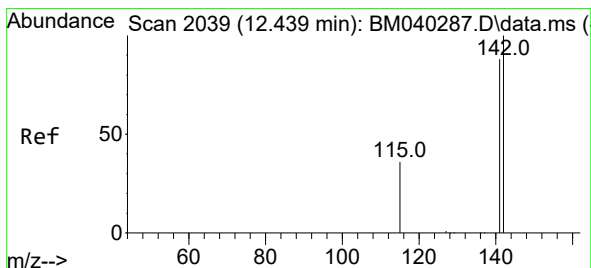
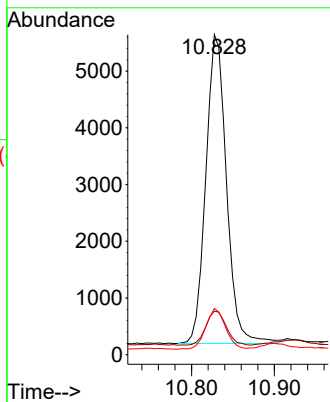
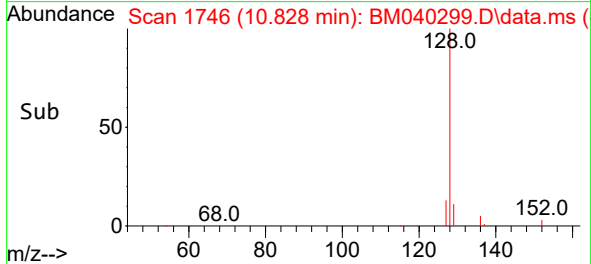
Instrument :  
BNA\_M  
ClientSampleId :  
DCFJ0DL



Tgt Ion:128 Resp: 9479  
Ion Ratio Lower Upper  
128 100  
129 13.6 9.1 13.7  
127 14.5 10.4 15.6

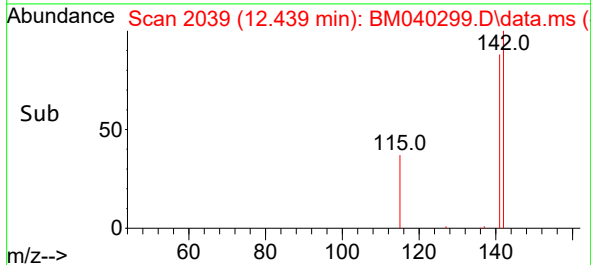
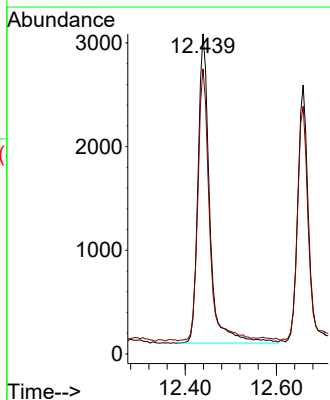
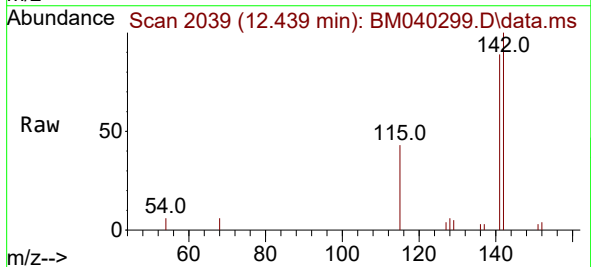
Manual Integrations  
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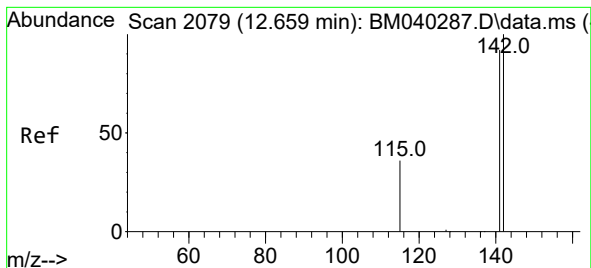
Reviewed By :Yogesh Patel 06/19/2023  
Supervised By :mohammad ahmed 06/20/2023



#7  
2-Methylnaphthalene  
Concen: 0.114 ng/ul  
RT: 12.439 min Scan# 2039  
Delta R.T. -0.006 min  
Lab File: BM040299.D  
Acq: 17 Jun 2023 02:26

Tgt Ion:142 Resp: 5323  
Ion Ratio Lower Upper  
142 100  
141 88.7 70.6 106.0





#8

1-Methylnaphthalene

Concen: 0.082 ng/ul

RT: 12.659 min Scan# 2079

Delta R.T. -0.006 min

Lab File: BM040299.D

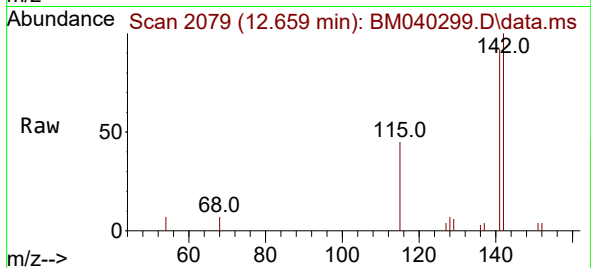
Acq: 17 Jun 2023 02:26

Instrument :

BNA\_M

ClientSampleId :

DCFJ0DL



Tgt Ion:142 Resp: 4019

Ion Ratio Lower Upper

142 100

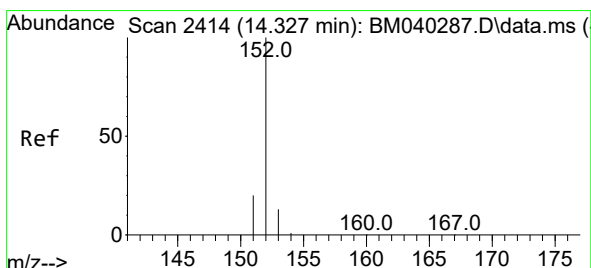
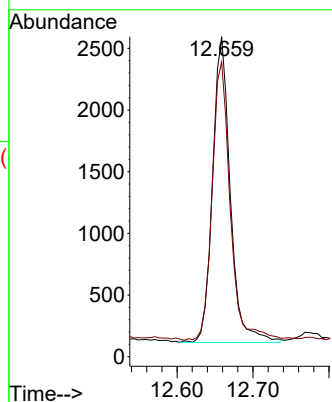
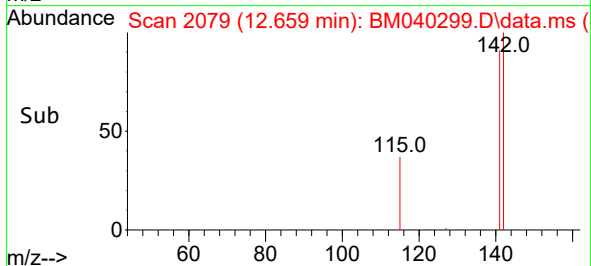
141 92.6 73.0 109.4

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#10

Acenaphthylene

Concen: 0.271 ng/ul

RT: 14.327 min Scan# 2414

Delta R.T. -0.005 min

Lab File: BM040299.D

Acq: 17 Jun 2023 02:26

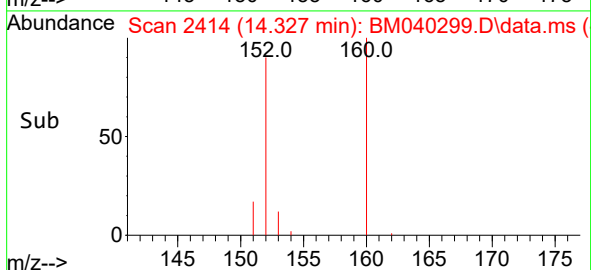
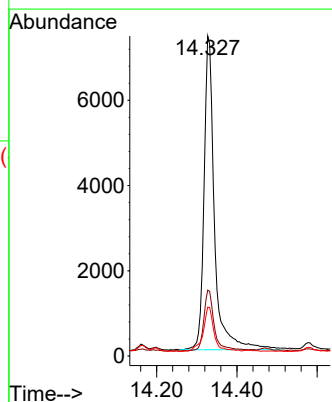
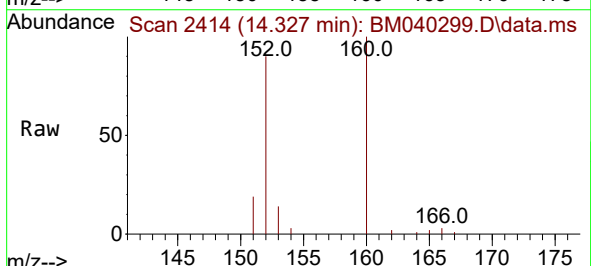
Tgt Ion:152 Resp: 13369

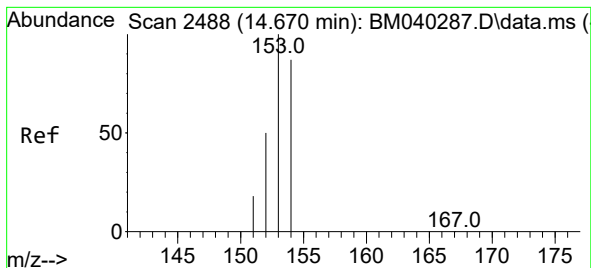
Ion Ratio Lower Upper

152 100

151 20.6 16.3 24.5

153 15.2 10.7 16.1





#11

Acenaphthene

Concen: 0.093 ng/ul

RT: 14.670 min Scan# 2488

Delta R.T. -0.005 min

Lab File: BM040299.D

Acq: 17 Jun 2023 02:26

Instrument :

BNA\_M

ClientSampleId :

DCFJ0DL

Tgt Ion:153 Resp: 393

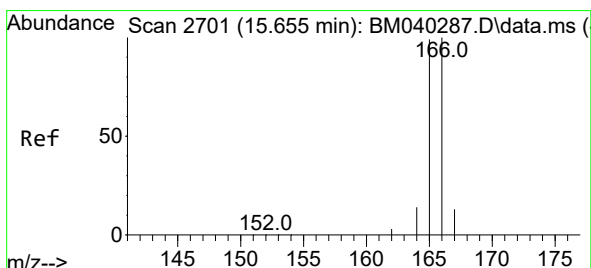
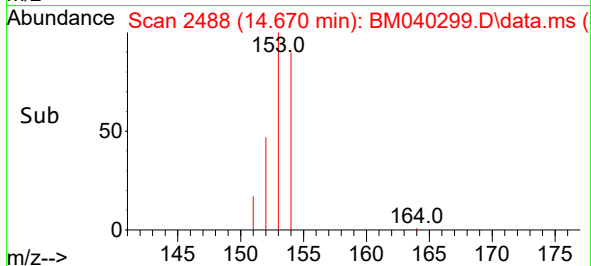
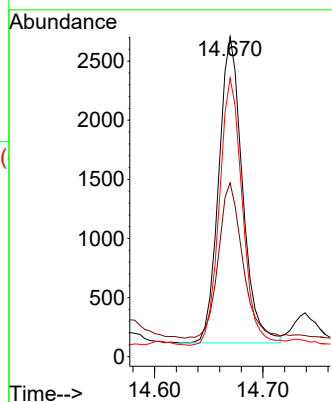
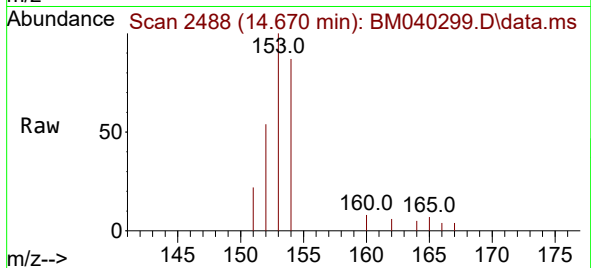
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 153 | 100   |       |       |
| 152 | 54.3  | 40.3  | 60.5  |
| 154 | 87.1  | 70.5  | 105.7 |

Manual Integrations

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Reviewed By :Yogesh Patel 06/19/2023

Supervised By :mohammad ahmed 06/20/2023



#12

Fluorene

Concen: 0.075 ng/ul

RT: 15.655 min Scan# 2701

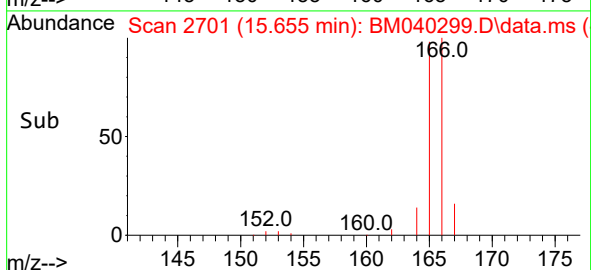
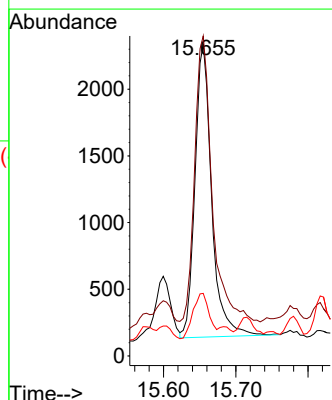
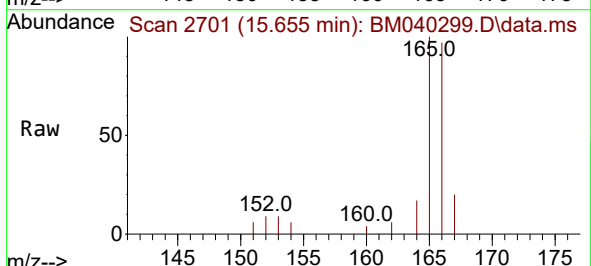
Delta R.T. -0.005 min

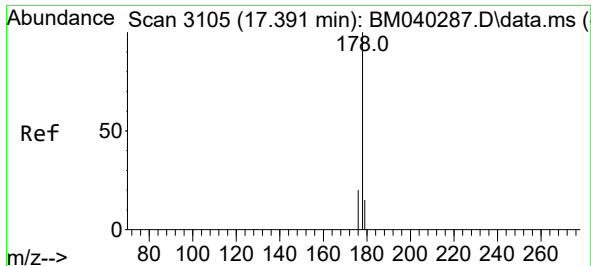
Lab File: BM040299.D

Acq: 17 Jun 2023 02:26

Tgt Ion:166 Resp: 3524

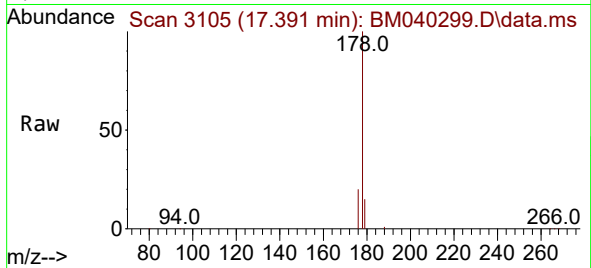
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 166 | 100   |       |       |
| 165 | 102.7 | 78.2  | 117.4 |
| 167 | 20.1  | 11.0  | 16.4  |





#15  
Phenanthrene  
Concen: 1.448 ng/ul  
RT: 17.391 min Scan# 3105  
Delta R.T. -0.004 min  
Lab File: BM040299.D  
Acq: 17 Jun 2023 02:26

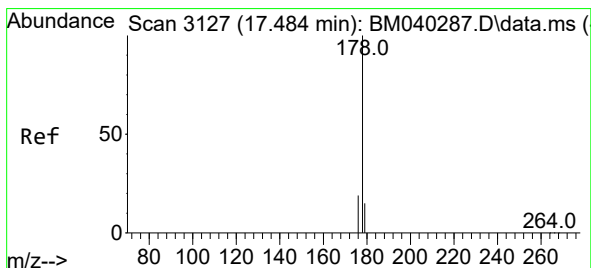
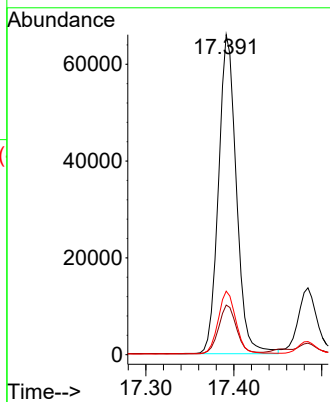
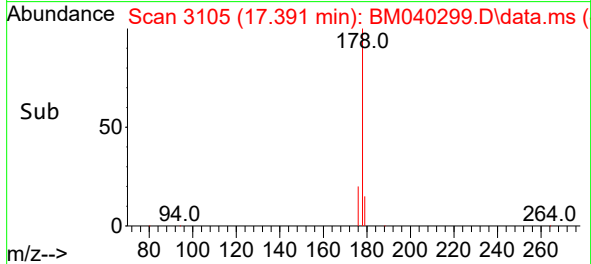
Instrument :  
BNA\_M  
ClientSampleId :  
DCFJ0DL



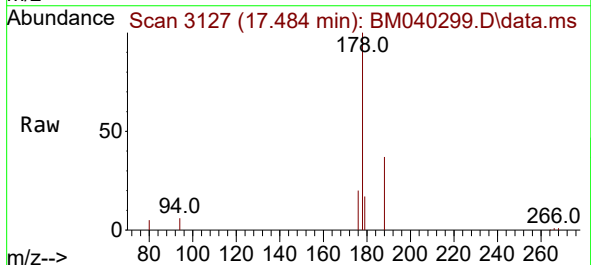
Tgt Ion:178 Resp: 92860  
Ion Ratio Lower Upper  
178 100  
179 15.5 12.6 19.0  
176 19.8 16.1 24.1

Manual Integrations  
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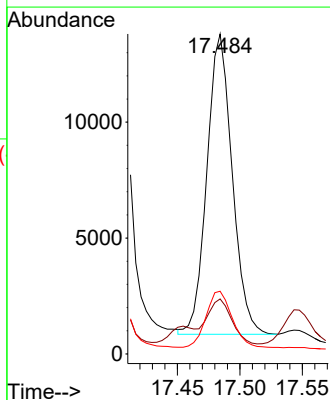
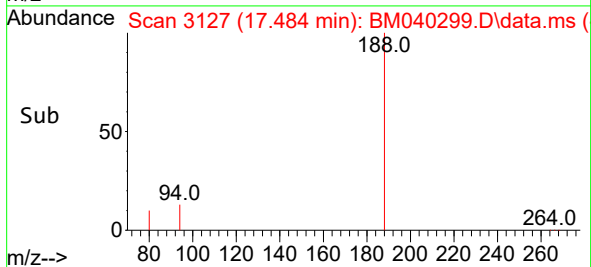
Reviewed By :Yogesh Patel 06/19/2023  
Supervised By :mohammad ahmed 06/20/2023

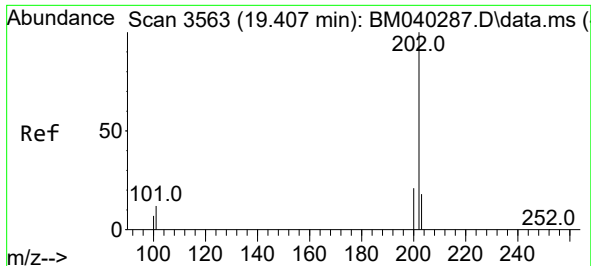


#16  
Anthracene  
Concen: 0.335 ng/ul  
RT: 17.484 min Scan# 3127  
Delta R.T. -0.004 min  
Lab File: BM040299.D  
Acq: 17 Jun 2023 02:26



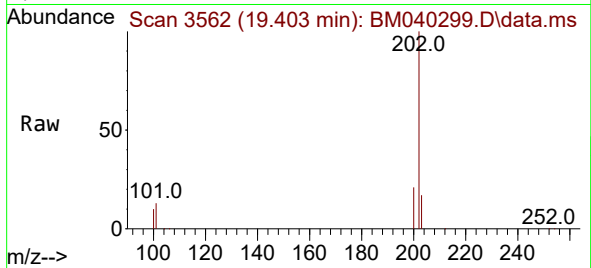
Tgt Ion:178 Resp: 18223  
Ion Ratio Lower Upper  
178 100  
179 17.2 13.0 19.4  
176 19.6 15.5 23.3





#19  
Fluoranthene  
Concen: 4.048 ng/u1  
RT: 19.403 min Scan# 3562  
Delta R.T. -0.005 min  
Lab File: BM040299.D  
Acq: 17 Jun 2023 02:26

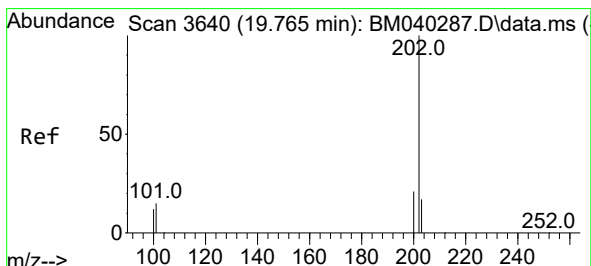
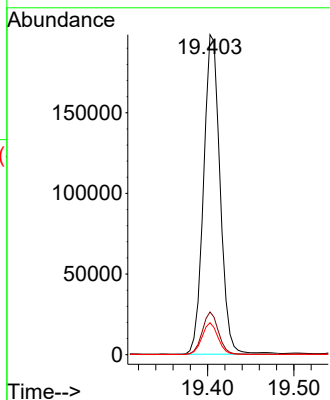
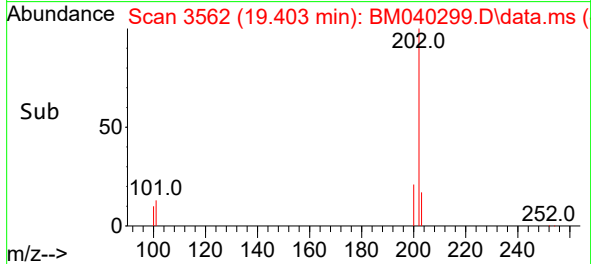
Instrument :  
BNA\_M  
ClientSampleId :  
DCFJ0DL



Tgt Ion:202 Resp: 263688  
Ion Ratio Lower Upper  
202 100  
101 13.3 10.2 15.4  
100 10.0 7.6 11.4

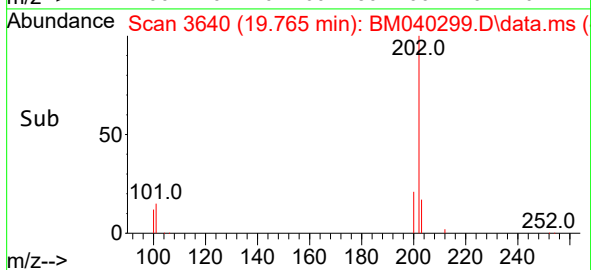
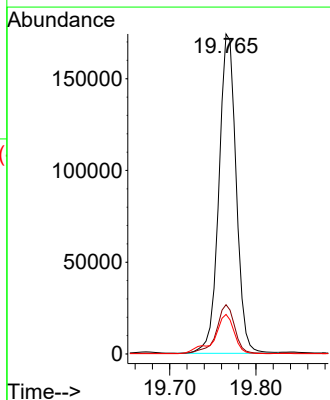
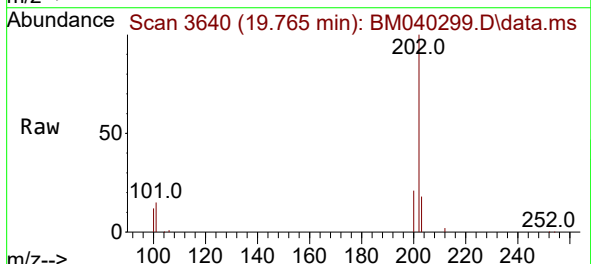
Manual Integrations  
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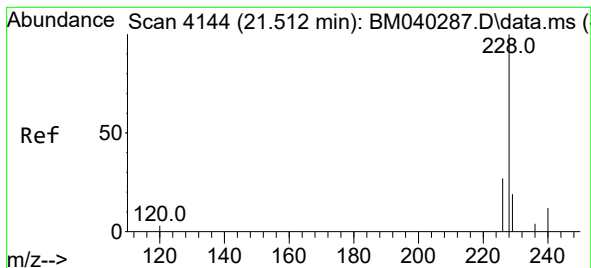
Reviewed By :Yogesh Patel 06/19/2023  
Supervised By :mohammad ahmed 06/20/2023



#20  
Pyrene  
Concen: 3.585 ng/u1  
RT: 19.765 min Scan# 3640  
Delta R.T. -0.005 min  
Lab File: BM040299.D  
Acq: 17 Jun 2023 02:26

Tgt Ion:202 Resp: 242685  
Ion Ratio Lower Upper  
202 100  
101 15.4 11.8 17.8  
100 12.4 9.3 13.9





#21

Benzo(a)anthracene

Concen: 2.226 ng/ul

RT: 21.509 min Scan# 4143

Delta R.T. -0.006 min

Lab File: BM040299.D

Acq: 17 Jun 2023 02:26

Instrument :

BNA\_M

ClientSampleId :

DCFJ0DL

Tgt Ion:228 Resp: 12566

Ion Ratio Lower Upper

228 100

229 21.1 15.8 23.8

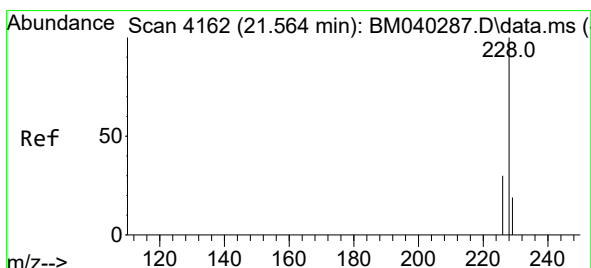
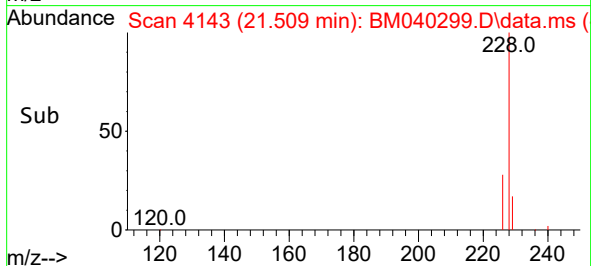
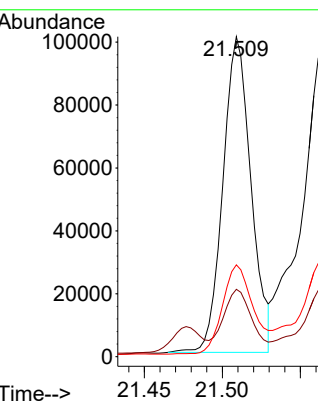
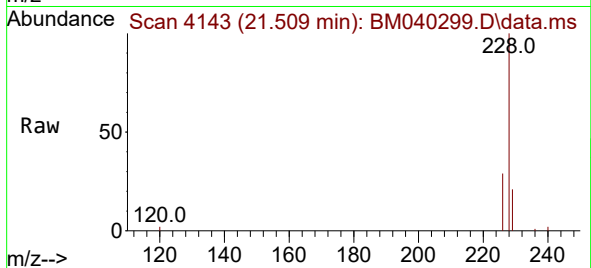
226 28.7 22.0 33.0

Manual Integrations

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Reviewed By :Yogesh Patel 06/19/2023

Supervised By :mohammad ahmed 06/20/2023



#22

Chrysene

Concen: 2.450 ng/ul

RT: 21.564 min Scan# 4162

Delta R.T. -0.006 min

Lab File: BM040299.D

Acq: 17 Jun 2023 02:26

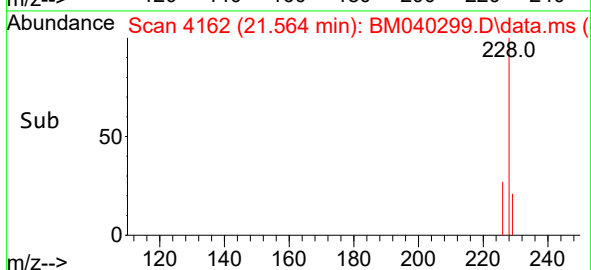
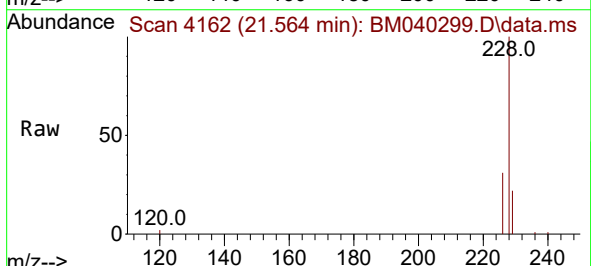
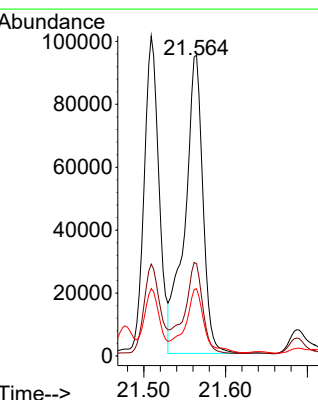
Tgt Ion:228 Resp: 146075

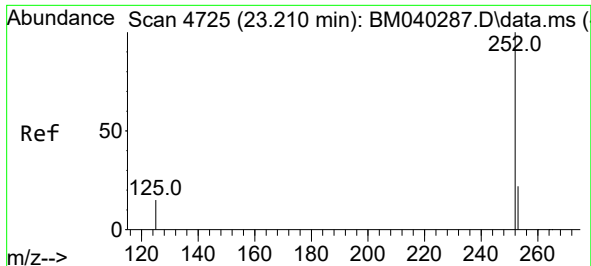
Ion Ratio Lower Upper

228 100

226 30.7 24.3 36.5

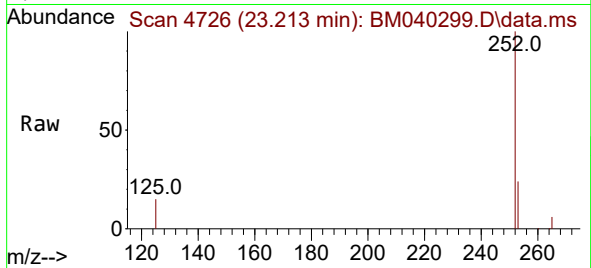
229 22.4 15.7 23.5





#24  
Benzo(b)fluoranthene  
Concen: 3.131 ng/ul  
RT: 23.213 min Scan# 4725  
Delta R.T. -0.003 min  
Lab File: BM040299.D  
Acq: 17 Jun 2023 02:26

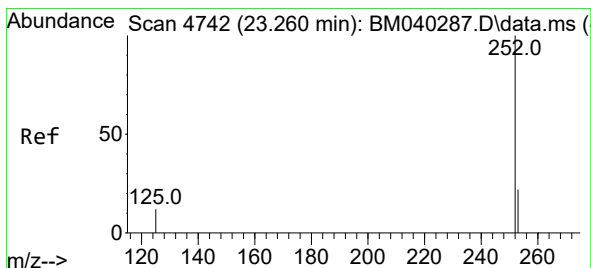
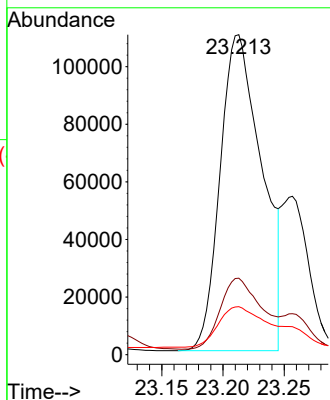
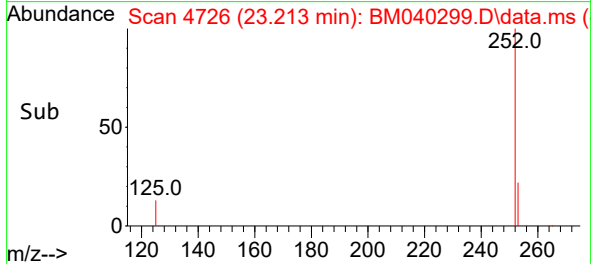
Instrument :  
BNA\_M  
ClientSampleId :  
DCFJ0DL



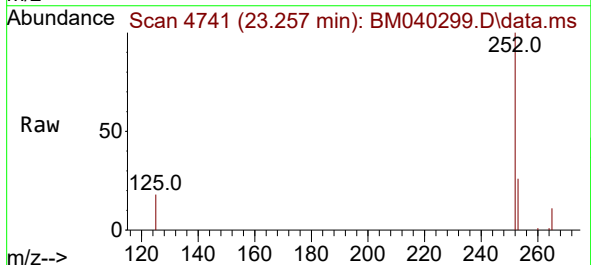
Tgt Ion:252 Resp: 260360  
Ion Ratio Lower Upper  
252 100  
253 23.9 0.0 52.4  
125 15.0 0.0 38.4

Manual Integrations  
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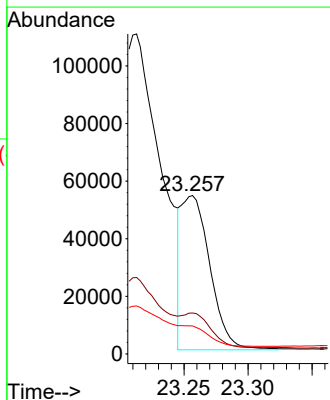
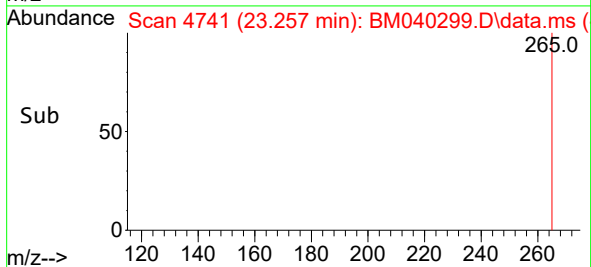
Reviewed By :Yogesh Patel 06/19/2023  
Supervised By :mohammad ahmed 06/20/2023

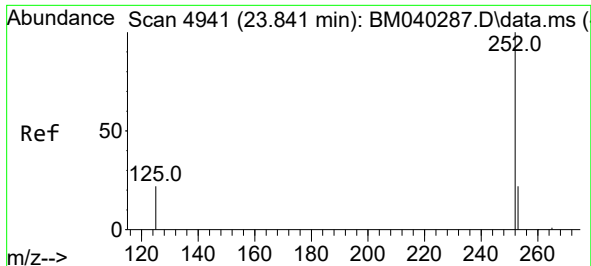


#25  
Benzo(k)fluoranthene  
Concen: 1.065 ng/ul m  
RT: 23.257 min Scan# 4741  
Delta R.T. -0.009 min  
Lab File: BM040299.D  
Acq: 17 Jun 2023 02:26



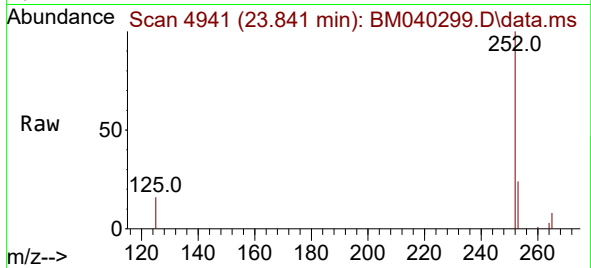
Tgt Ion:252 Resp: 83387  
Ion Ratio Lower Upper  
252 100  
253 25.9 21.5 32.3  
125 17.7 14.7 22.1





#26  
Benzo(a)pyrene  
Concen: 2.485 ng/ul  
RT: 23.841 min Scan# 4941  
Delta R.T. -0.009 min  
Lab File: BM040299.D  
Acq: 17 Jun 2023 02:26

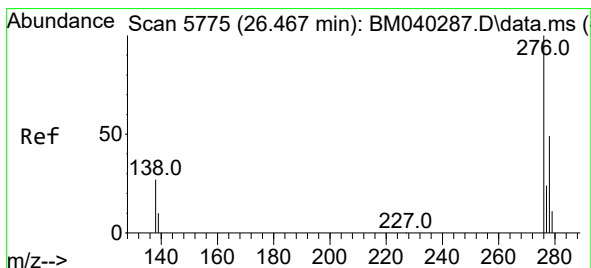
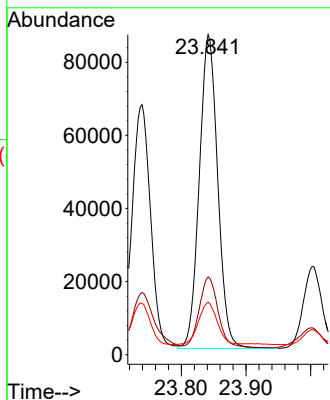
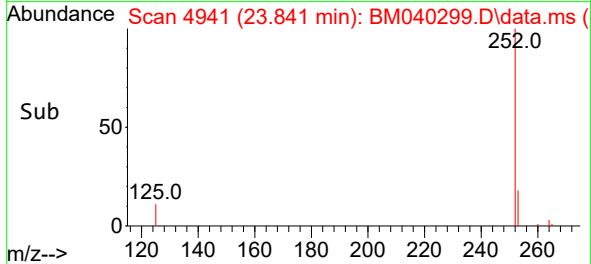
Instrument :  
BNA\_M  
ClientSampleId :  
DCFJ0DL



Tgt Ion:252 Resp: 16958  
Ion Ratio Lower Upper  
252 100  
253 24.3 23.4 35.0  
125 16.4 19.7 29.5

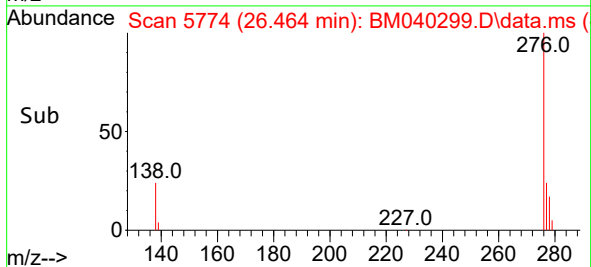
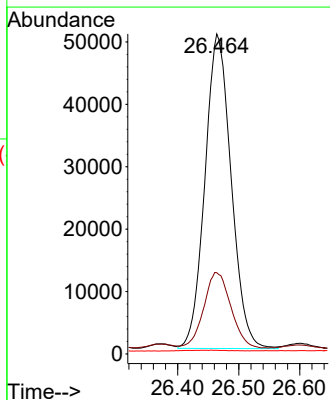
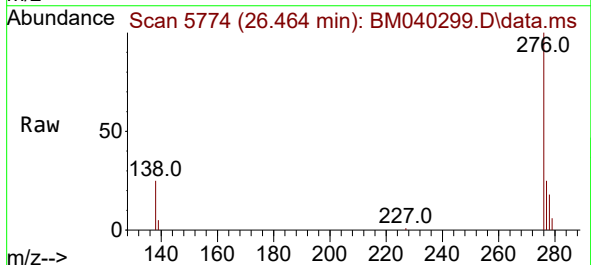
Manual Integrations  
APPROVED

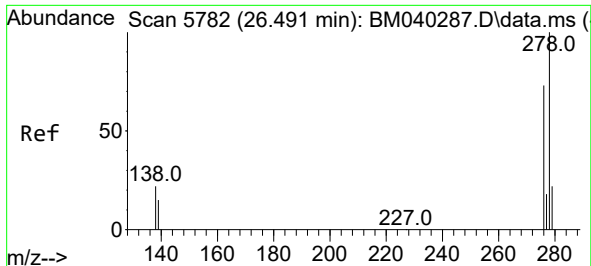
Reviewed By :Yogesh Patel 06/19/2023  
Supervised By :mohammad ahmed 06/20/2023



#27  
Indeno(1,2,3-cd)pyrene  
Concen: 1.744 ng/ul  
RT: 26.464 min Scan# 5774  
Delta R.T. -0.013 min  
Lab File: BM040299.D  
Acq: 17 Jun 2023 02:26

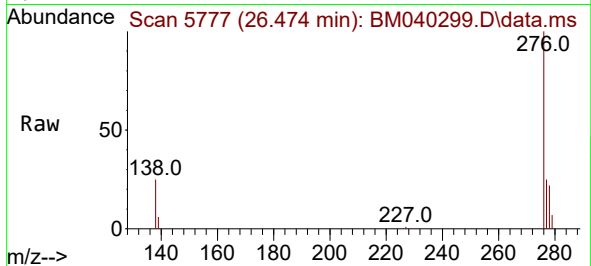
Tgt Ion:276 Resp: 150683  
Ion Ratio Lower Upper  
276 100  
138 24.8 23.3 34.9  
227 0.4 0.1 0.1





#28  
Dibenzo(a,h)anthracene  
Concen: 0.503 ng/ul  
RT: 26.474 min Scan# 5777  
Delta R.T. -0.023 min  
Lab File: BM040299.D  
Acq: 17 Jun 2023 02:26

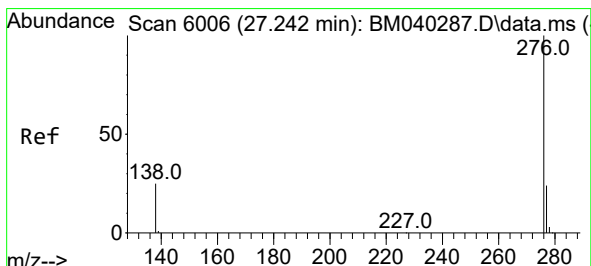
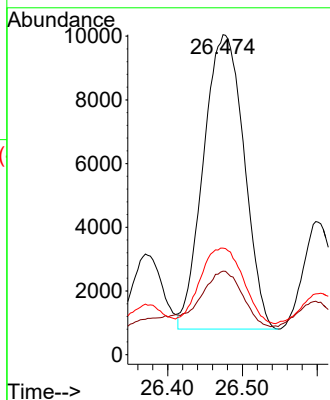
Instrument :  
BNA\_M  
ClientSampleId :  
DCFJ0DL



Tgt Ion:278 Resp: 34908  
Ion Ratio Lower Upper  
278 100  
139 26.1 16.4 24.6  
279 33.3 21.8 32.8

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 06/19/2023  
Supervised By :mohammad ahmed 06/20/2023



#29  
Benzo(g,h,i)perylene  
Concen: 2.001 ng/ul  
RT: 27.245 min Scan# 6007  
Delta R.T. -0.010 min  
Lab File: BM040299.D  
Acq: 17 Jun 2023 02:26

Tgt Ion:276 Resp: 144376  
Ion Ratio Lower Upper  
276 100  
138 26.6 21.0 31.4  
277 24.8 19.6 29.4

