

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN061323\  
 Data File : BN025833.D  
 Acq On : 14 Jun 2023 09:22  
 Operator : MA/JU  
 Sample : 02950-03DL 5X  
 Misc :  
 ALS Vial : 39 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 EW980DL

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 06/14/2023  
 Supervised By :mohammad ahmed 06/14/2023

Quant Time: Jun 14 09:50:32 2023  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SFAM-EPA-SIM-BN060923.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Jun 10 02:01:49 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 8.001  | 152  | 9804     | 0.400 | ng/ul  | -0.01    |
| 4) Naphthalene-d8           | 10.814 | 136  | 28687    | 0.400 | ng/ul  | -0.01    |
| 9) Acenaphthene-d10         | 14.635 | 164  | 14853    | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.381 | 188  | 25984    | 0.400 | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.567 | 240  | 15050    | 0.400 | ng/ul  | 0.00     |
| 23) Perylene-d12            | 24.034 | 264  | 15661    | 0.400 | ng/ul  | -0.02    |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.352  | 96   | 8138     | 0.844 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.409 | 152  | 1935     | 0.053 | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.405 | 212  | 3395     | 0.072 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.864 | 128  | 2109     | 0.029 | ng/ul# | 89       |
| 10) Acenaphthylene          | 14.357 | 152  | 6165     | 0.105 | ng/ul# | 91       |
| 11) Acenaphthene            | 14.700 | 153  | 9261     | 0.189 | ng/ul  | 98       |
| 12) Fluorene                | 15.681 | 166  | 2540     | 0.047 | ng/ul# | 91       |
| 15) Phenanthrene            | 17.423 | 178  | 8966     | 0.118 | ng/ul# | 95       |
| 16) Anthracene              | 17.512 | 178  | 7078     | 0.111 | ng/ul# | 95       |
| 19) Fluoranthene            | 19.438 | 202  | 39131    | 0.568 | ng/ul  | 99       |
| 20) Pyrene                  | 19.796 | 202  | 61829    | 0.868 | ng/ul  | 98       |
| 21) Benzo(a)anthracene      | 21.552 | 228  | 21021    | 0.438 | ng/ul  | 91       |
| 22) Chrysene                | 21.605 | 228  | 25016    | 0.456 | ng/ul  | 97       |
| 24) Benzo(b)fluoranthene    | 23.283 | 252  | 19912m   | 0.311 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 23.324 | 252  | 7161m    | 0.111 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.923 | 252  | 21423    | 0.395 | ng/ul  | 96       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.611 | 276  | 10995    | 0.178 | ng/ul# | 89       |
| 28) Dibenzo(a,h)anthracene  | 26.628 | 278  | 3020     | 0.064 | ng/ul# | 59       |
| 29) Benzo(g,h,i)perylene    | 27.413 | 276  | 12028    | 0.217 | ng/ul  | 98       |
| -----                       |        |      |          |       |        |          |

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

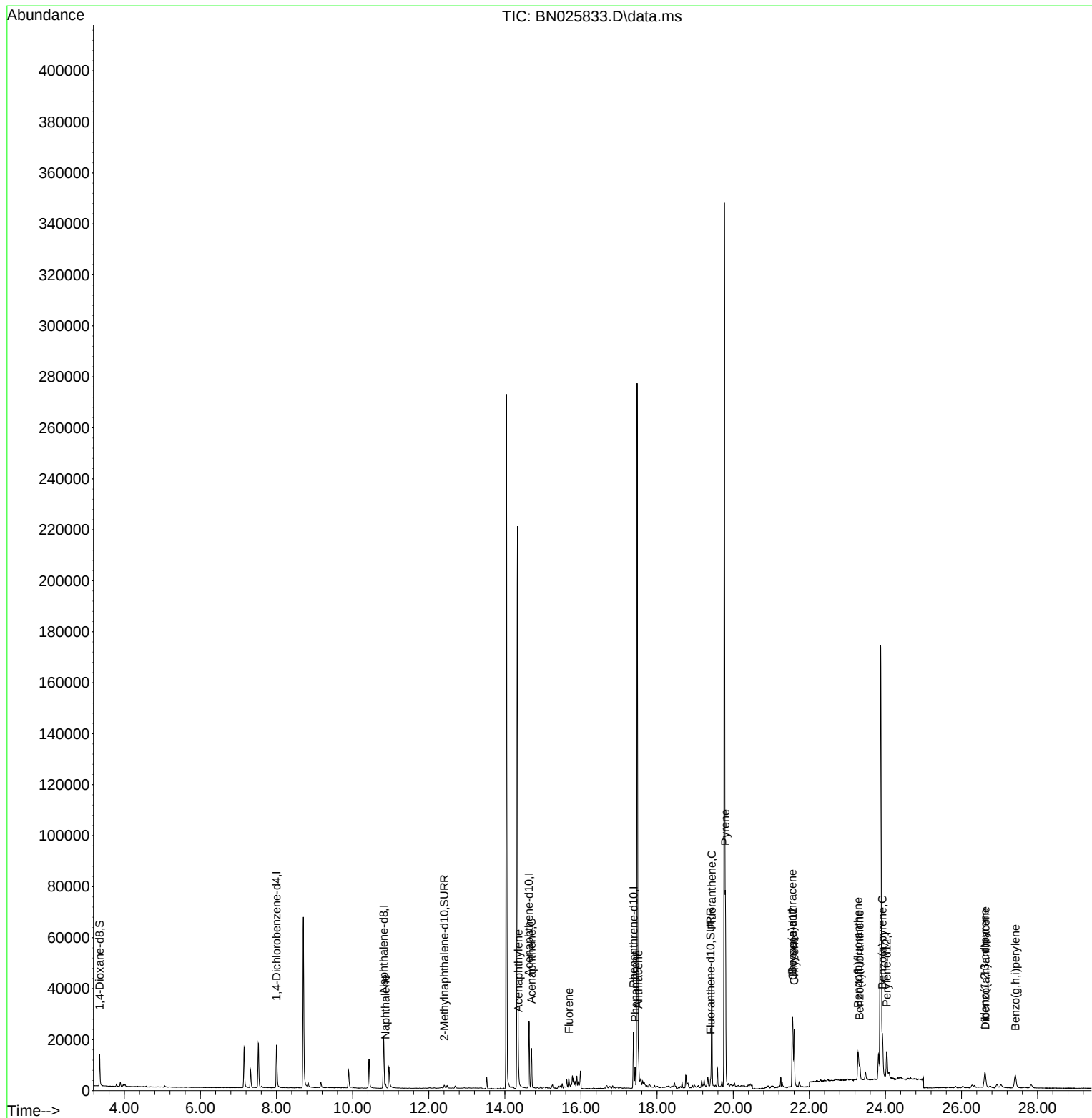
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN061323\  
Data File : BN025833.D  
Acq On : 14 Jun 2023 09:22  
Operator : MA/JU  
Sample : 02950-03DL 5X  
Misc :  
ALS Vial : 39 Sample Multiplier: 1

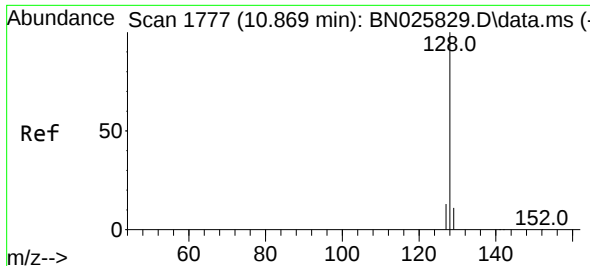
Instrument :  
BNA\_N  
ClientSampleId :  
EW980DL

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 06/14/2023  
Supervised By :mohammad ahmed 06/14/2023

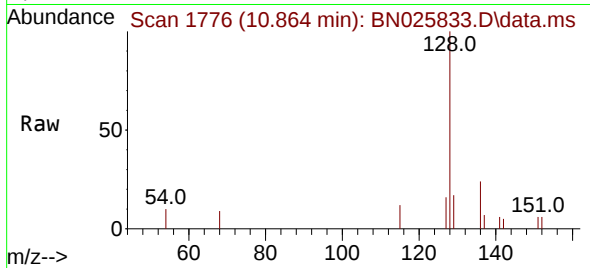
Quant Time: Jun 14 09:50:32 2023  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SFAM-EPA-SIM-BN060923.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Jun 10 02:01:49 2023  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.029 ng/u1  
RT: 10.864 min Scan# 1776  
Delta R.T. -0.011 min  
Lab File: BN025833.D  
Acq: 14 Jun 2023 09:22

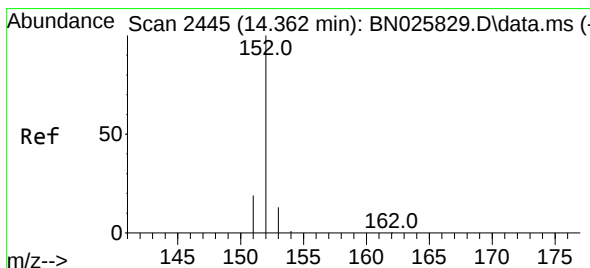
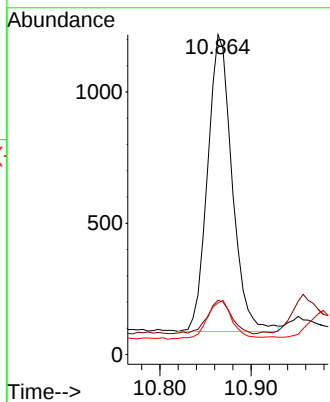
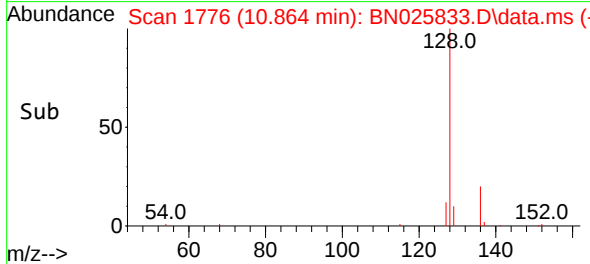
Instrument :  
BNA\_N  
ClientSampleId :  
EW980DL



Tgt Ion:128 Resp: 2109  
Ion Ratio Lower Upper  
128 100  
129 17.0 9.1 13.7  
127 16.2 10.5 15.7

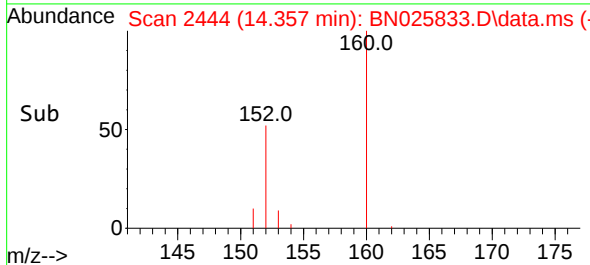
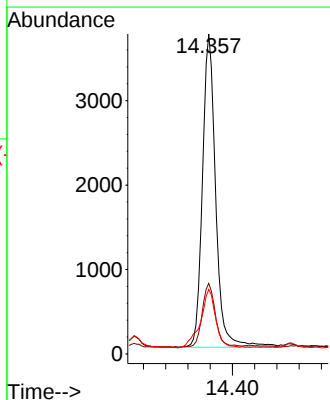
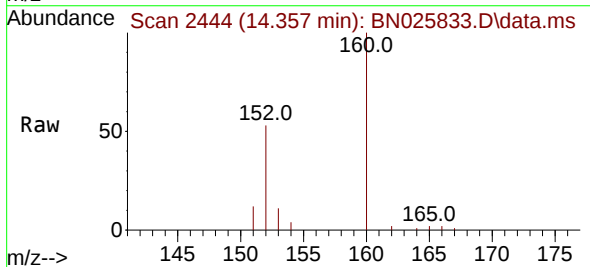
Manual Integrations  
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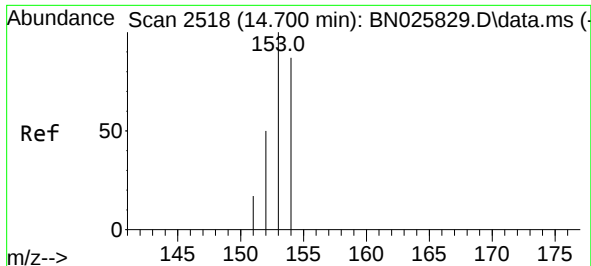
Reviewed By :Yogesh Patel 06/14/2023  
Supervised By :mohammad ahmed 06/14/2023



#10  
Acenaphthylene  
Concen: 0.105 ng/u1  
RT: 14.357 min Scan# 2444  
Delta R.T. -0.009 min  
Lab File: BN025833.D  
Acq: 14 Jun 2023 09:22

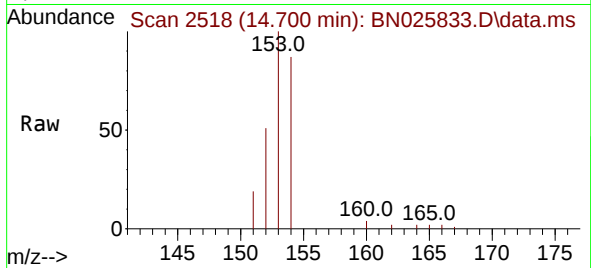
Tgt Ion:152 Resp: 6165  
Ion Ratio Lower Upper  
152 100  
151 22.0 16.0 24.0  
153 20.1 10.7 16.1





#11  
Acenaphthene  
Concen: 0.189 ng/ul  
RT: 14.700 min Scan# 21  
Delta R.T. -0.004 min  
Lab File: BN025833.D  
Acq: 14 Jun 2023 09:22

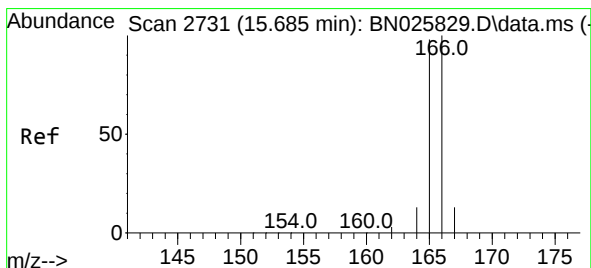
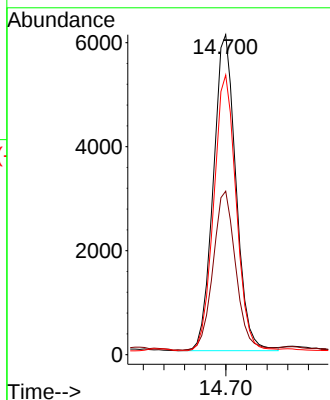
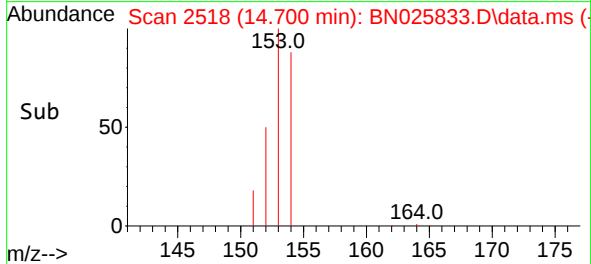
Instrument :  
BNA\_N  
ClientSampleId :  
EW980DL



Tgt Ion:153 Resp: 926  
Ion Ratio Lower Upper  
153 100  
152 51.1 39.5 59.3  
154 87.4 68.8 103.2

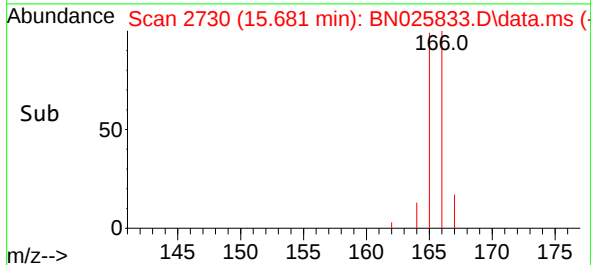
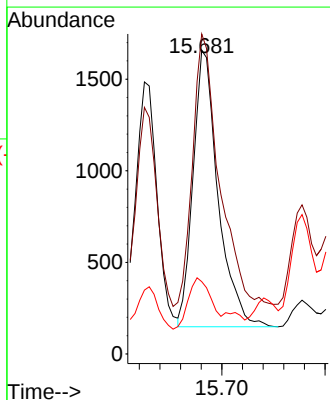
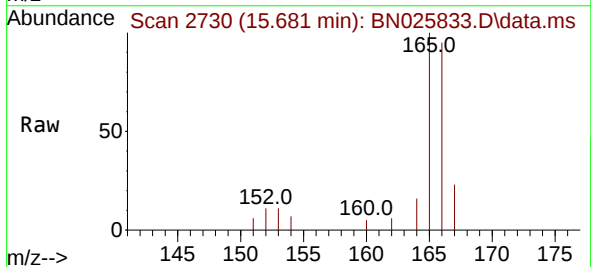
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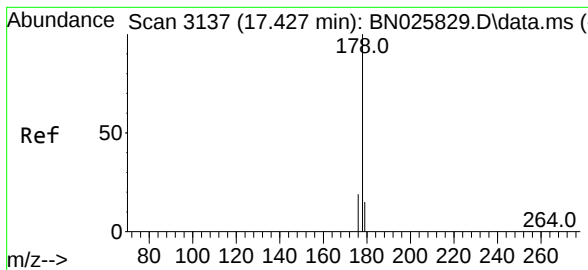
Reviewed By :Yogesh Patel 06/14/2023  
Supervised By :mohammad ahmed 06/14/2023



#12  
Fluorene  
Concen: 0.047 ng/ul  
RT: 15.681 min Scan# 2730  
Delta R.T. -0.009 min  
Lab File: BN025833.D  
Acq: 14 Jun 2023 09:22

Tgt Ion:166 Resp: 2540  
Ion Ratio Lower Upper  
166 100  
165 105.4 79.2 118.8  
167 23.8 11.0 16.6#





#15

Phenanthrene

Concen: 0.118 ng/ul

RT: 17.423 min Scan# 3136

Delta R.T. -0.008 min

Lab File: BN025833.D

Acq: 14 Jun 2023 09:22

Instrument :

BNA\_N

ClientSampleId :

EW980DL

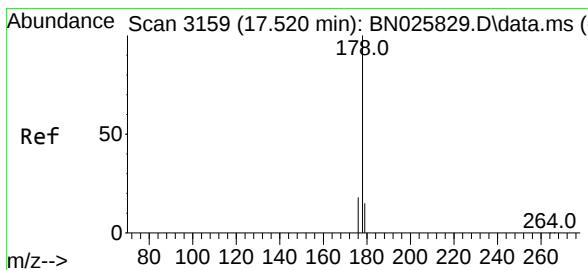
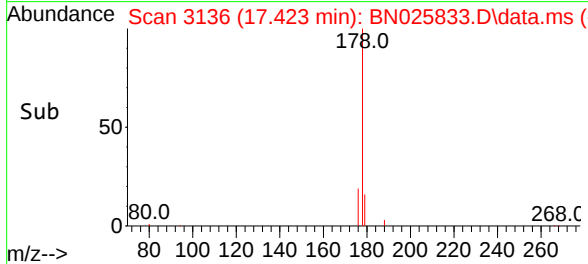
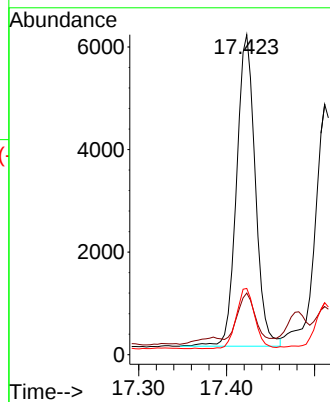
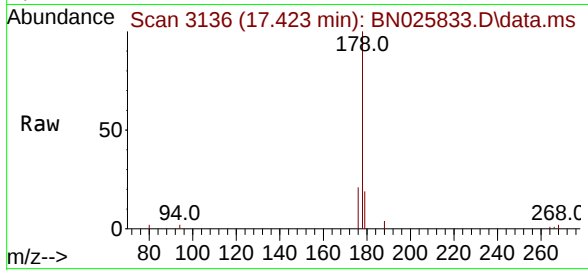
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 178   | Resp: | 8960 |
| Ion Ratio | Lower | Upper |      |
| 178       | 100   |       |      |
| 179       | 19.2  | 12.6  | 18.8 |
| 176       | 20.7  | 15.8  | 23.8 |

Manual Integrations

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Reviewed By :Yogesh Patel 06/14/2023

Supervised By :mohammad ahmed 06/14/2023



#16

Anthracene

Concen: 0.111 ng/ul

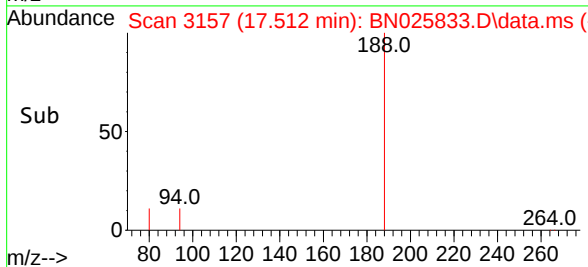
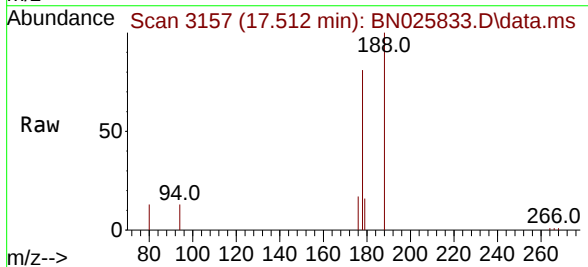
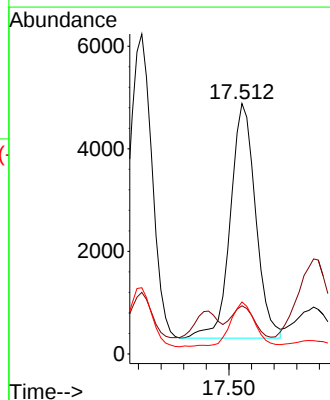
RT: 17.512 min Scan# 3157

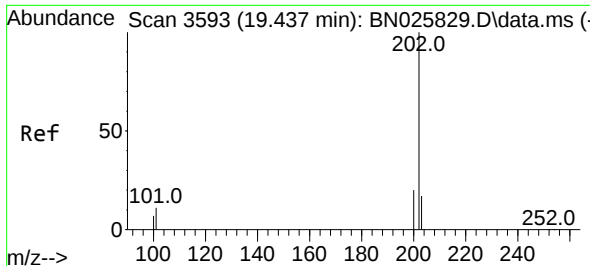
Delta R.T. -0.012 min

Lab File: BN025833.D

Acq: 14 Jun 2023 09:22

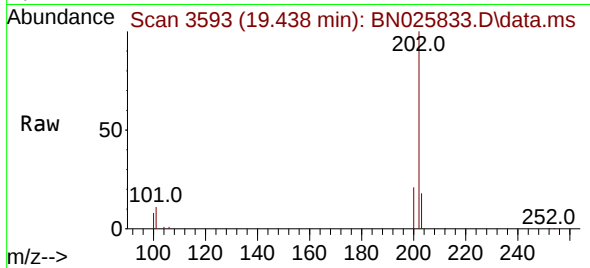
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 178   | Resp: | 7078 |
| Ion Ratio | Lower | Upper |      |
| 178       | 100   |       |      |
| 179       | 19.2  | 12.6  | 19.0 |
| 176       | 20.8  | 15.4  | 23.2 |





#19  
Fluoranthene  
Concen: 0.568 ng/u1  
RT: 19.438 min Scan# 3593  
Delta R.T. -0.004 min  
Lab File: BN025833.D  
Acq: 14 Jun 2023 09:22

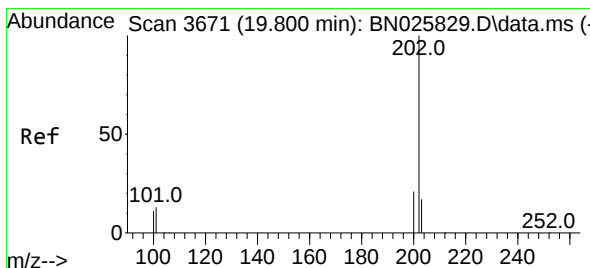
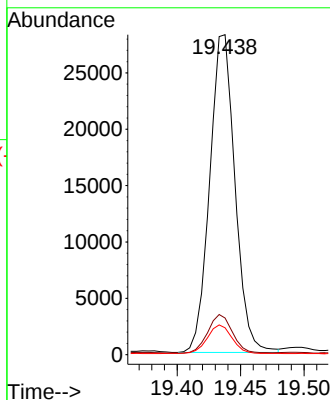
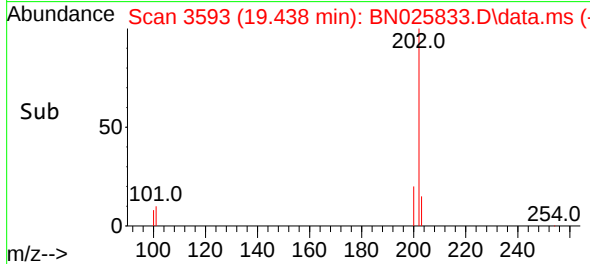
Instrument :  
BNA\_N  
ClientSampleId :  
EW980DL



Tgt Ion:202 Resp: 3913  
Ion Ratio Lower Upper  
202 100  
101 11.5 9.1 13.7  
100 8.4 7.0 10.6

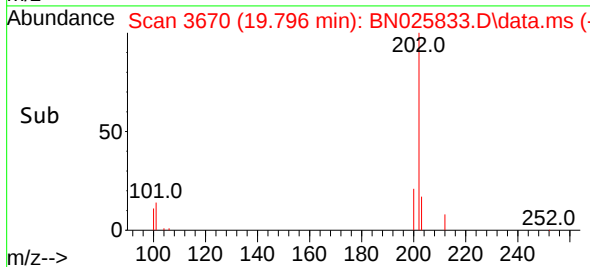
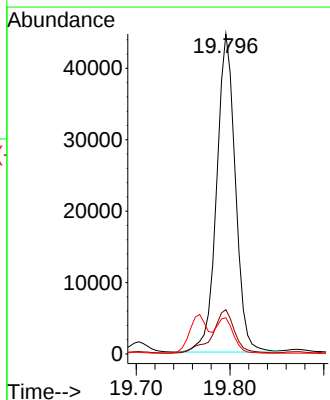
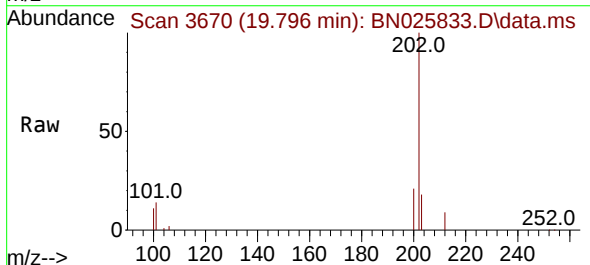
Manual Integrations  
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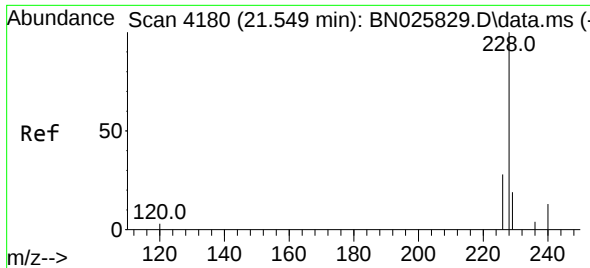
Reviewed By :Yogesh Patel 06/14/2023  
Supervised By :mohammad ahmed 06/14/2023



#20  
Pyrene  
Concen: 0.868 ng/u1  
RT: 19.796 min Scan# 3670  
Delta R.T. -0.009 min  
Lab File: BN025833.D  
Acq: 14 Jun 2023 09:22

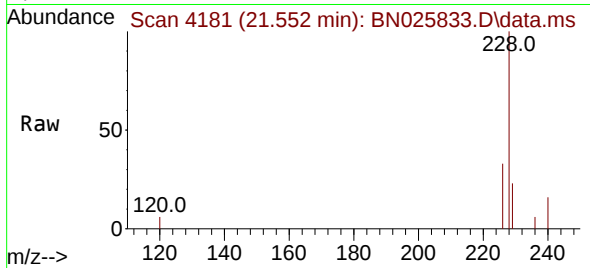
Tgt Ion:202 Resp: 61829  
Ion Ratio Lower Upper  
202 100  
101 13.9 10.4 15.6  
100 11.3 8.8 13.2





#21  
Benzo(a)anthracene  
Concen: 0.438 ng/ul  
RT: 21.552 min Scan# 4180  
Delta R.T. 0.000 min  
Lab File: BN025833.D  
Acq: 14 Jun 2023 09:22

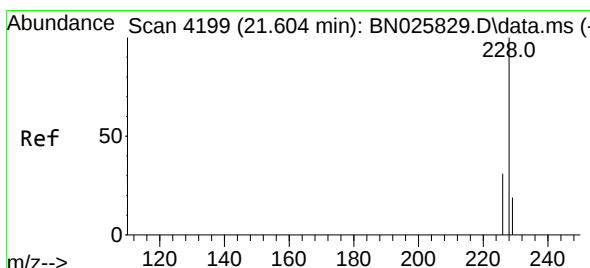
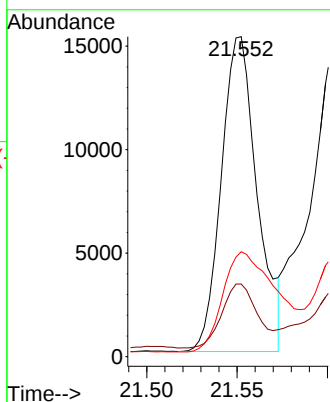
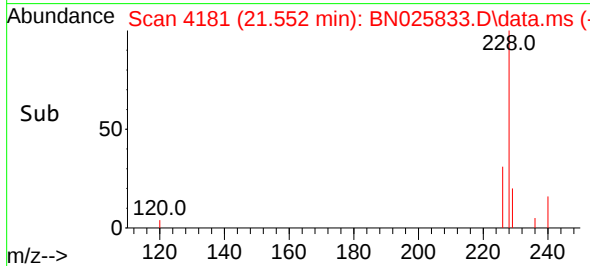
Instrument :  
BNA\_N  
ClientSampleId :  
EW980DL



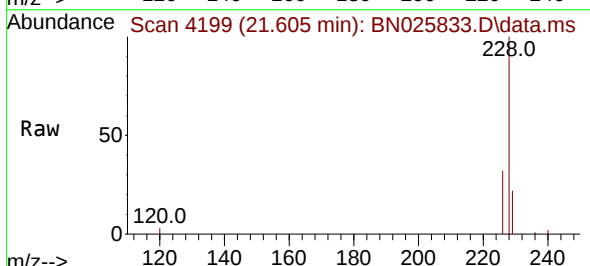
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Ion Ratio Lower Upper  
228 100  
229 22.7 15.5 23.3  
226 32.8 22.0 33.0

Manual Integrations  
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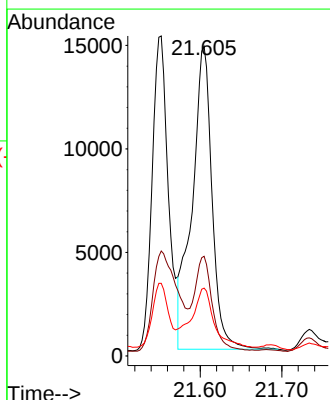
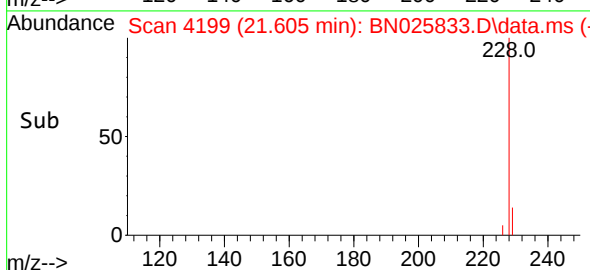
Reviewed By :Yogesh Patel 06/14/2023  
Supervised By :mohammad ahmed 06/14/2023

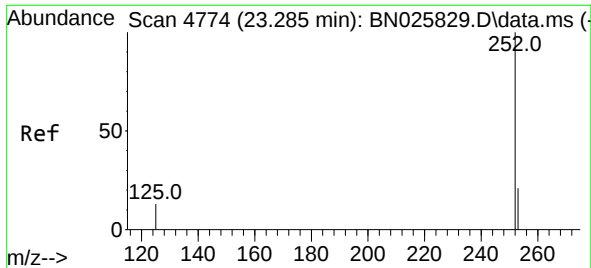


#22  
Chrysene  
Concen: 0.456 ng/ul  
RT: 21.605 min Scan# 4199  
Delta R.T. -0.003 min  
Lab File: BN025833.D  
Acq: 14 Jun 2023 09:22



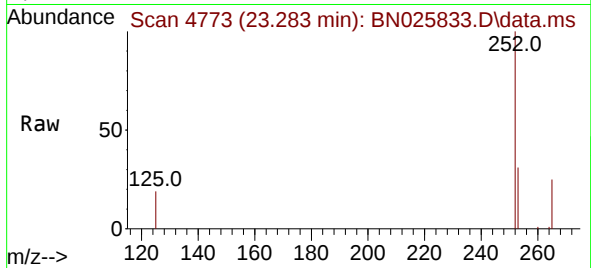
Tgt Ion:228 Resp: 25016  
Ion Ratio Lower Upper  
228 100  
226 32.2 24.7 37.1  
229 21.9 15.7 23.5





#24  
Benzo(b)fluoranthene  
Concen: 0.311 ng/ul m  
RT: 23.283 min Scan# 4773  
Delta R.T. -0.008 min  
Lab File: BN025833.D  
Acq: 14 Jun 2023 09:22

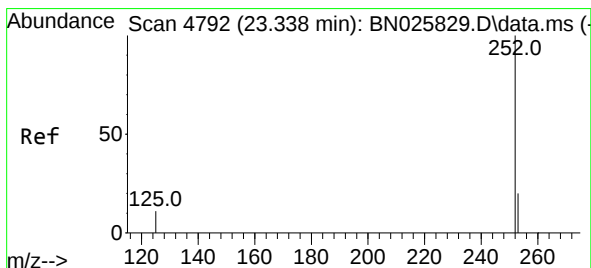
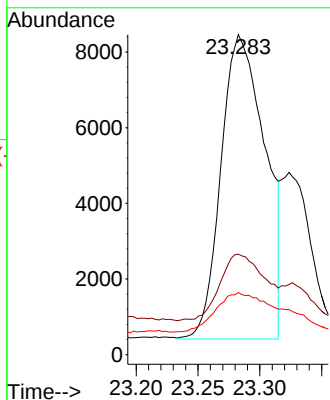
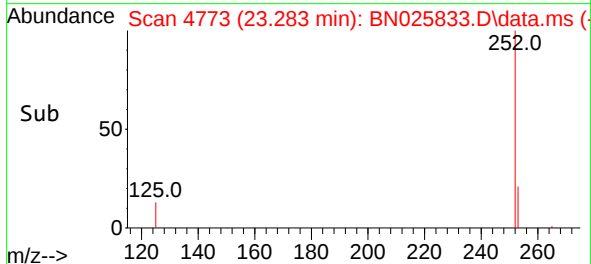
Instrument :  
BNA\_N  
ClientSampleId :  
EW980DL



Tgt Ion:252 Resp: 1991  
Ion Ratio Lower Upper  
252 100  
253 31.4 0.0 56.0  
125 19.4 0.0 28.0

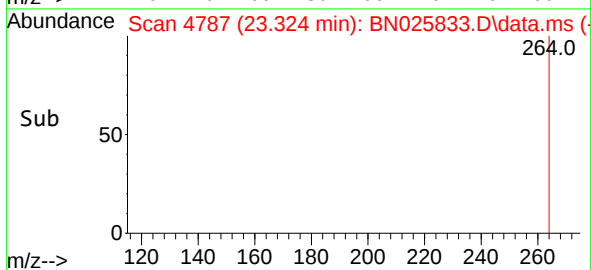
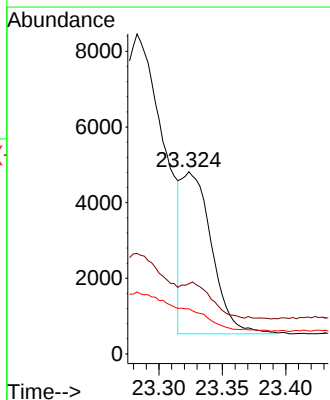
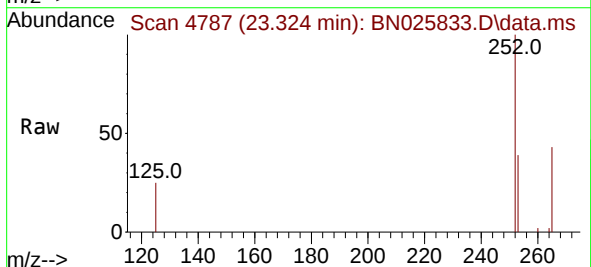
Manual Integrations  
APPROVED

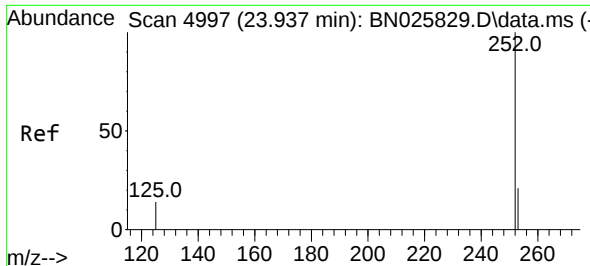
Reviewed By :Yogesh Patel 06/14/2023  
Supervised By :mohammad ahmed 06/14/2023



#25  
Benzo(k)fluoranthene  
Concen: 0.111 ng/ul m  
RT: 23.324 min Scan# 4787  
Delta R.T. -0.017 min  
Lab File: BN025833.D  
Acq: 14 Jun 2023 09:22

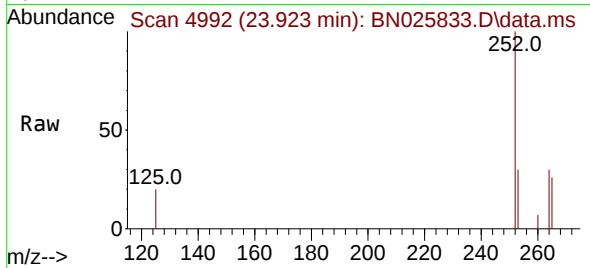
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Ion Ratio Lower Upper  
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253 38.6 23.3 34.9#  
125 24.7 11.6 17.4#





#26  
Benzo(a)pyrene  
Concen: 0.395 ng/ul  
RT: 23.923 min Scan# 4992  
Delta R.T. -0.020 min  
Lab File: BN025833.D  
Acq: 14 Jun 2023 09:22

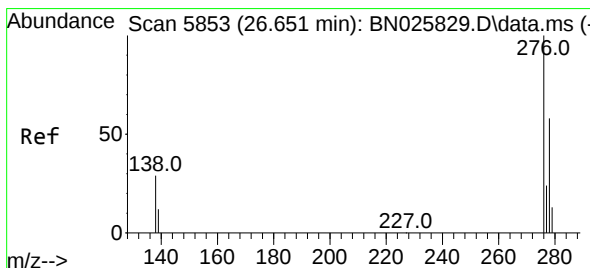
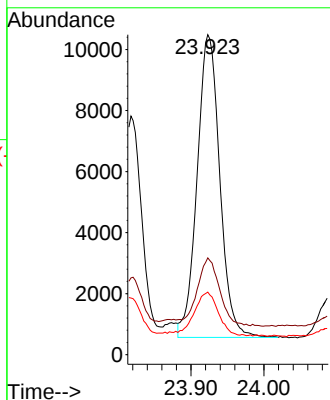
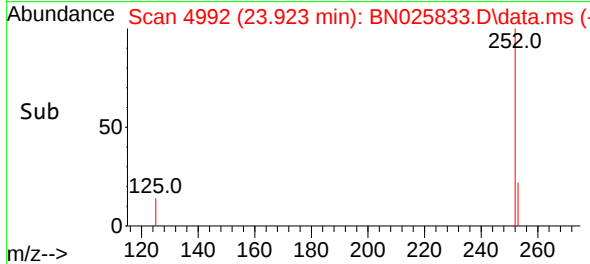
Instrument :  
BNA\_N  
ClientSampleId :  
EW980DL



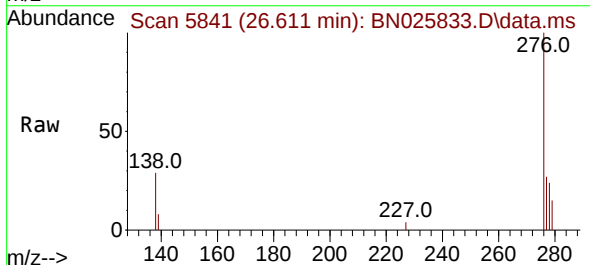
Tgt Ion:252 Resp: 2142  
Ion Ratio Lower Upper  
252 100  
253 30.3 25.8 38.8  
125 19.5 13.5 20.3

Manual Integrations  
APPROVED

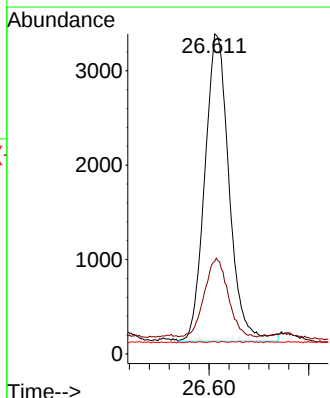
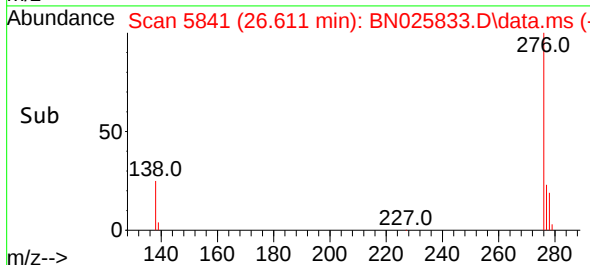
Reviewed By :Yogesh Patel 06/14/2023  
Supervised By :mohammad ahmed 06/14/2023

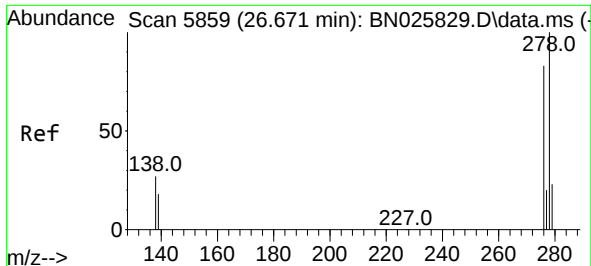


#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.178 ng/ul  
RT: 26.611 min Scan# 5841  
Delta R.T. -0.047 min  
Lab File: BN025833.D  
Acq: 14 Jun 2023 09:22



Tgt Ion:276 Resp: 10995  
Ion Ratio Lower Upper  
276 100  
138 24.9 24.6 36.8  
227 0.1 0.0 0.0#





#28

Dibenzo(a,h)anthracene

Concen: 0.064 ng/ul

RT: 26.628 min Scan# 5846

Delta R.T. -0.057 min

Lab File: BN025833.D

Acq: 14 Jun 2023 09:22

Instrument :

BNA\_N

ClientSampleId :

EW980DL

Tgt Ion:278 Resp: 3020

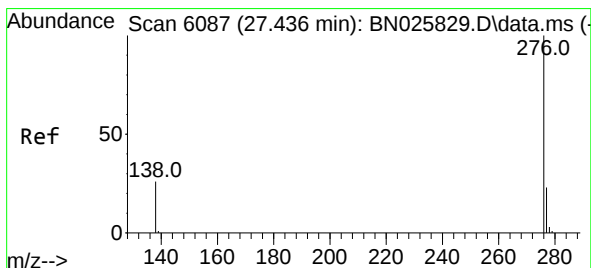
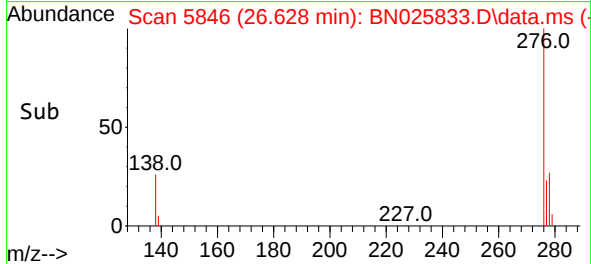
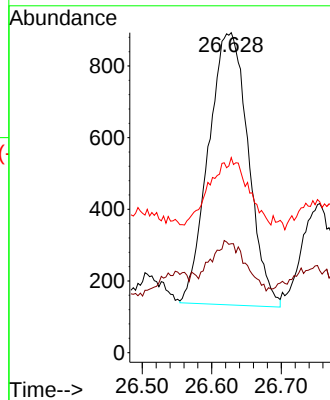
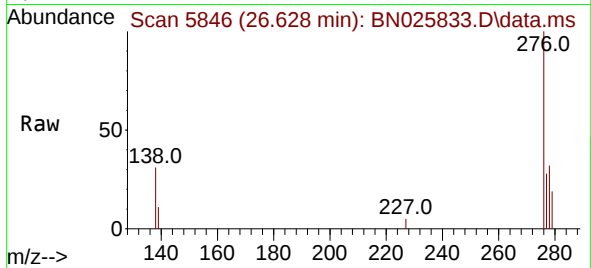
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 278 | 100   |       |       |
| 139 | 34.0  | 17.9  | 26.9  |
| 279 | 60.9  | 25.3  | 37.9  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/14/2023

Supervised By :mohammad ahmed 06/14/2023



#29

Benzo(g,h,i)perylene

Concen: 0.217 ng/ul

RT: 27.413 min Scan# 6080

Delta R.T. -0.036 min

Lab File: BN025833.D

Acq: 14 Jun 2023 09:22

Tgt Ion:276 Resp: 12028

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 28.9  | 21.8  | 32.8  |
| 277 | 25.1  | 19.4  | 29.2  |

