

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN071823\  
 Data File : BN026582.D  
 Acq On : 19 Jul 2023 02:38  
 Operator : MA/JU  
 Sample : 03501-10  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A46X5

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 07/19/2023  
 Supervised By :mohammad ahmed 07/19/2023

Quant Time: Jul 19 05:08:42 2023  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SFAM-EPA-SIM-BN071223.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 19 00:52:36 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.925  | 152  | 1413     | 0.400 | ng/ul  | -0.02    |
| 4) Naphthalene-d8           | 10.736 | 136  | 4487     | 0.400 | ng/ul  | #-0.01   |
| 9) Acenaphthene-d10         | 14.574 | 164  | 3166     | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.325 | 188  | 12972    | 0.400 | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.519 | 240  | 10790    | 0.400 | ng/ul  | # 0.00   |
| 23) Perylene-d12            | 23.954 | 264  | 11919    | 0.400 | ng/ul  | # 0.00   |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.284  | 96   | 3588     | 1.928 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.331 | 152  | 1958     | 0.321 | ng/ul  | -0.01    |
| 18) Fluoranthene-d10        | 19.353 | 212  | 7788     | 0.208 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.785 | 128  | 1397     | 0.113 | ng/ul# | 81       |
| 7) 2-Methylnaphthalene      | 12.402 | 142  | 434      | 0.062 | ng/ul  | 98       |
| 8) 1-Methylnaphthalene      | 12.622 | 142  | 520      | 0.069 | ng/ul  | 99       |
| 10) Acenaphthylene          | 14.292 | 152  | 2343     | 0.151 | ng/ul# | 88       |
| 11) Acenaphthene            | 14.634 | 153  | 2269     | 0.192 | ng/ul  | 99       |
| 12) Fluorene                | 15.620 | 166  | 3437     | 0.277 | ng/ul# | 96       |
| 15) Phenanthrene            | 17.363 | 178  | 61045    | 1.478 | ng/ul  | 98       |
| 16) Anthracene              | 17.456 | 178  | 9810     | 0.274 | ng/ul  | 98       |
| 19) Fluoranthene            | 19.381 | 202  | 124380   | 2.459 | ng/ul# | 95       |
| 20) Pyrene                  | 19.744 | 202  | 49692    | 0.905 | ng/ul  | 98       |
| 21) Benzo(a)anthracene      | 21.502 | 228  | 69026    | 1.741 | ng/ul  | 99       |
| 22) Chrysene                | 21.557 | 228  | 60727    | 1.345 | ng/ul  | 96       |
| 24) Benzo(b)fluoranthene    | 23.212 | 252  | 79665m   | 1.716 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 23.255 | 252  | 31185m   | 0.641 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.846 | 252  | 10556    | 0.255 | ng/ul# | 93       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.486 | 276  | 13560    | 0.250 | ng/ul# | 79       |
| 28) Dibenzo(a,h)anthracene  | 26.500 | 278  | 10003    | 0.241 | ng/ul# | 89       |
| -----                       |        |      |          |       |        |          |

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

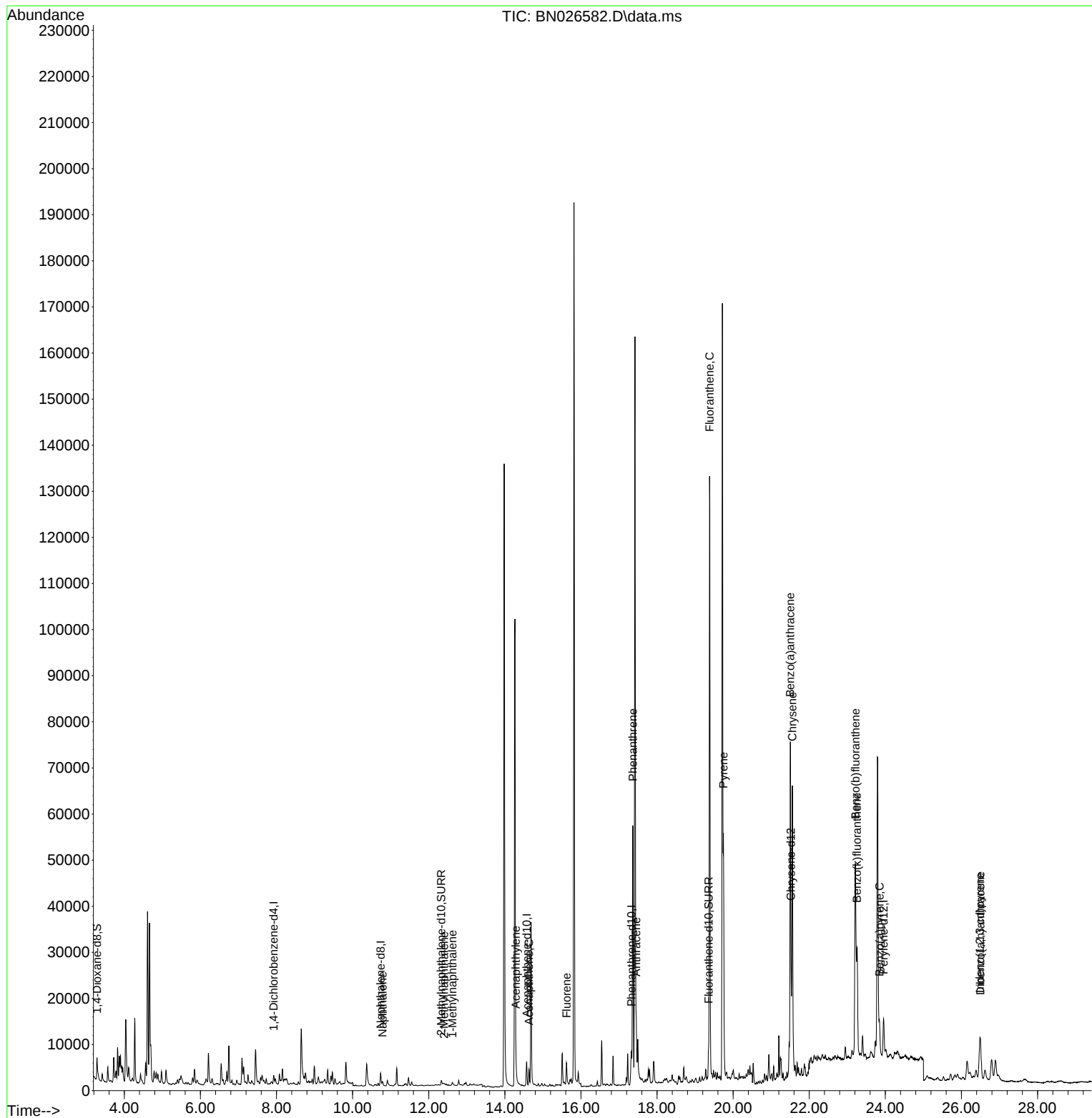
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN071823\  
Data File : BN026582.D  
Acq On : 19 Jul 2023 02:38  
Operator : MA/JU  
Sample : 03501-10  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

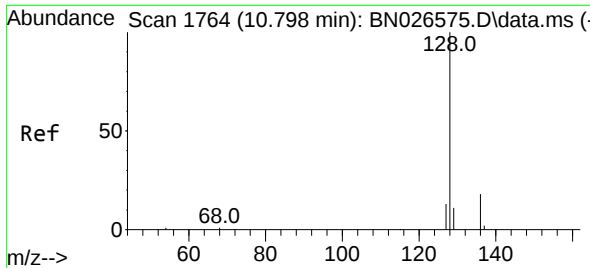
Instrument :  
BNA\_N  
ClientSampleId :  
A46X5

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 07/19/2023  
Supervised By :mohammad ahmed 07/19/2023

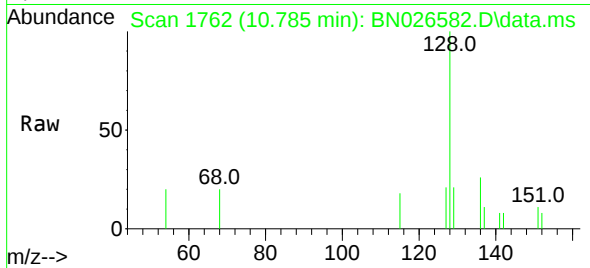
Quant Time: Jul 19 05:08:42 2023  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SFAM-EPA-SIM-BN071223.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jul 19 00:52:36 2023  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.113 ng/ul  
RT: 10.785 min Scan# 1762  
Delta R.T. -0.012 min  
Lab File: BN026582.D  
Acq: 19 Jul 2023 02:38

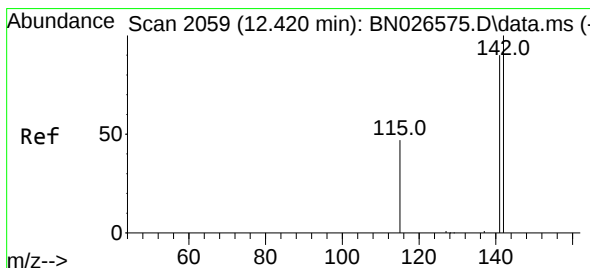
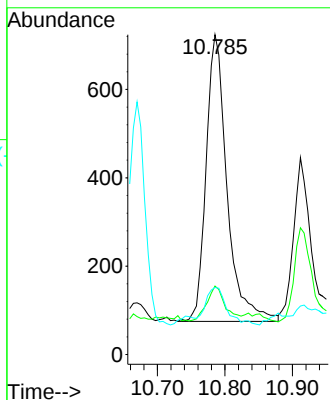
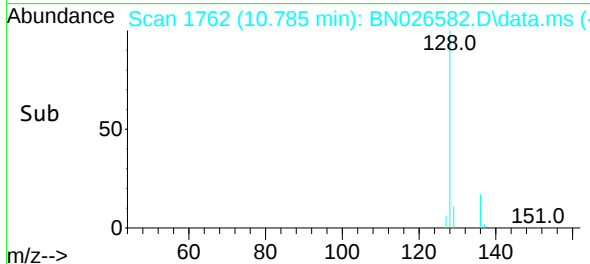
Instrument :  
BNA\_N  
ClientSampleId :  
A46X5



Tgt Ion:128 Resp: 139  
Ion Ratio Lower Upper  
128 100  
129 21.4 10.2 15.2  
127 21.0 11.4 17.0

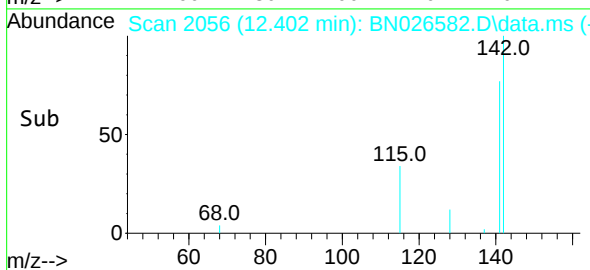
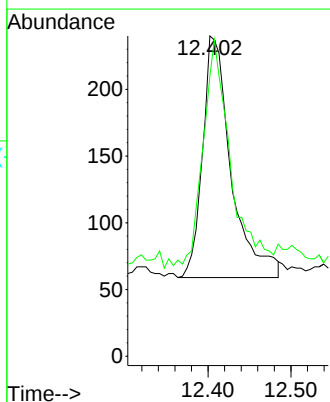
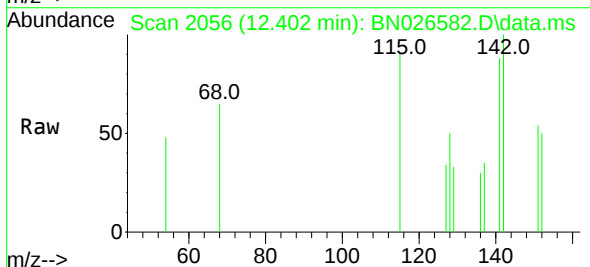
Manual Integrations  
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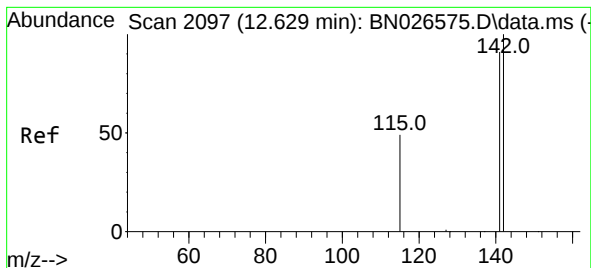
Reviewed By :Yogesh Patel 07/19/2023  
Supervised By :mohammad ahmed 07/19/2023



#7  
2-Methylnaphthalene  
Concen: 0.062 ng/ul  
RT: 12.402 min Scan# 2056  
Delta R.T. -0.018 min  
Lab File: BN026582.D  
Acq: 19 Jul 2023 02:38

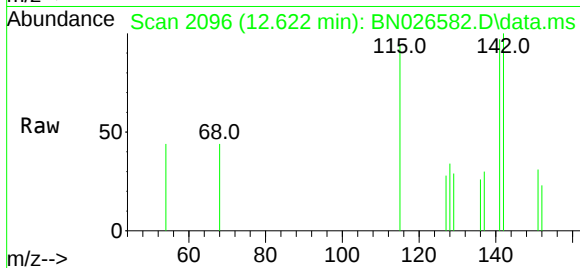
Tgt Ion:142 Resp: 434  
Ion Ratio Lower Upper  
142 100  
141 88.2 72.3 108.5





#8  
1-Methylnaphthalene  
Concen: 0.069 ng/ul  
RT: 12.622 min Scan# 2096  
Delta R.T. -0.007 min  
Lab File: BN026582.D  
Acq: 19 Jul 2023 02:38

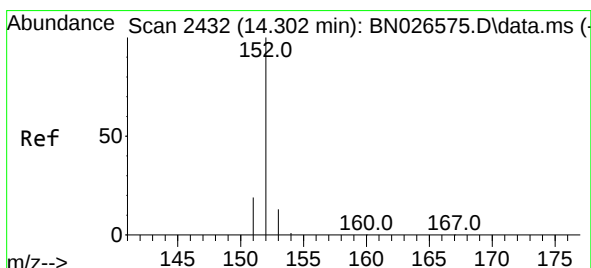
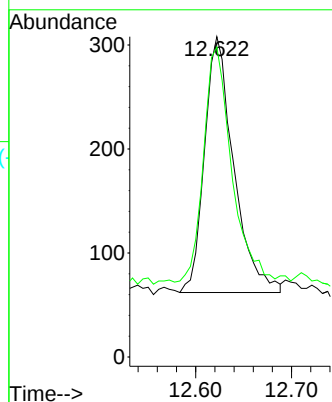
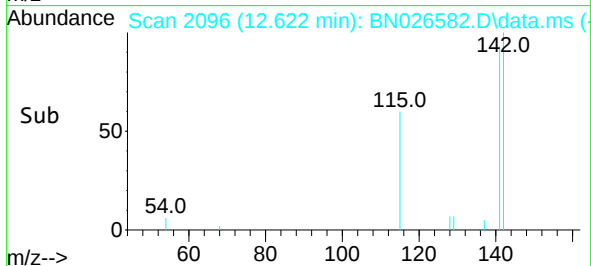
Instrument :  
BNA\_N  
ClientSampleId :  
A46X5



Tgt Ion:142 Resp: 520  
Ion Ratio Lower Upper  
142 100  
141 91.7 74.5 111.7

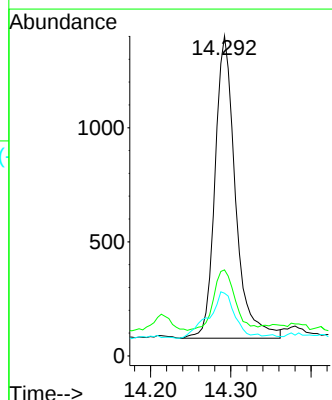
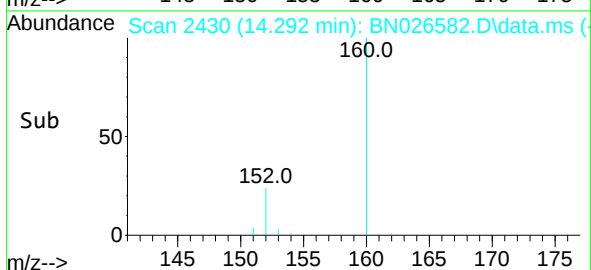
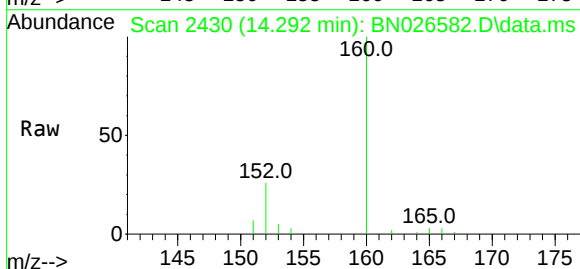
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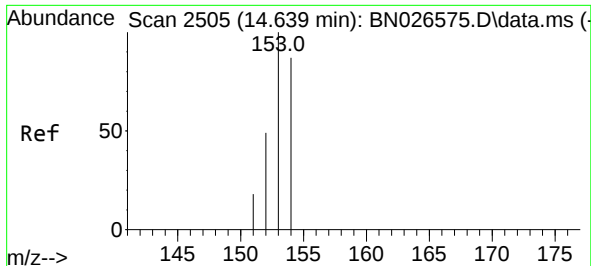
Reviewed By :Yogesh Patel 07/19/2023  
Supervised By :mohammad ahmed 07/19/2023



#10  
Acenaphthylene  
Concen: 0.151 ng/ul  
RT: 14.292 min Scan# 2430  
Delta R.T. -0.010 min  
Lab File: BN026582.D  
Acq: 19 Jul 2023 02:38

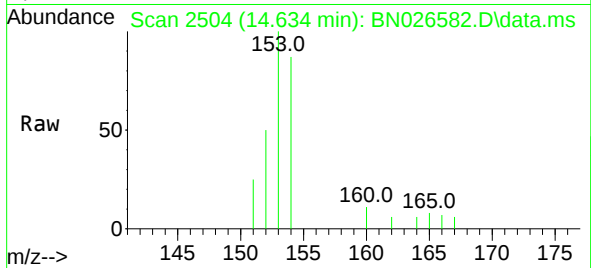
Tgt Ion:152 Resp: 2343  
Ion Ratio Lower Upper  
152 100  
151 26.9 17.0 25.6#  
153 19.6 11.4 17.2#





#11  
Acenaphthene  
Concen: 0.192 ng/u1  
RT: 14.634 min Scan# 21  
Delta R.T. -0.005 min  
Lab File: BN026582.D  
Acq: 19 Jul 2023 02:38

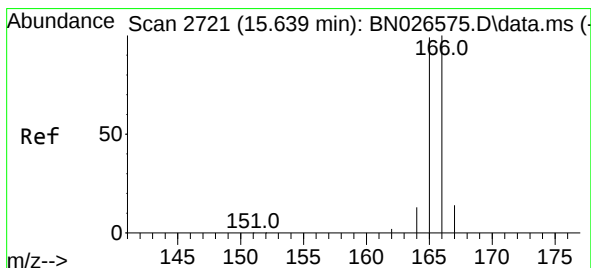
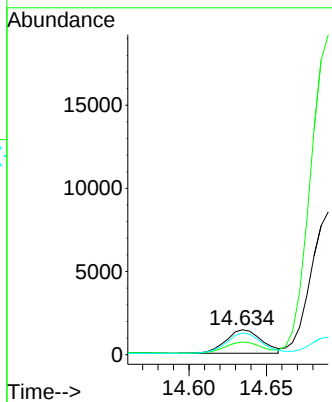
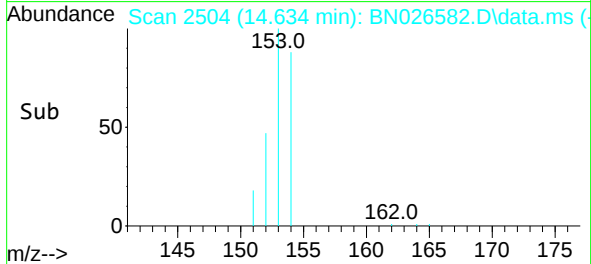
Instrument :  
BNA\_N  
ClientSampleId :  
A46X5



Tgt Ion:153 Resp: 2269  
Ion Ratio Lower Upper  
153 100  
152 50.4 40.2 60.4  
154 87.3 69.3 103.9

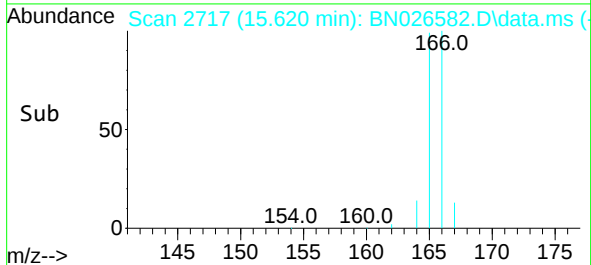
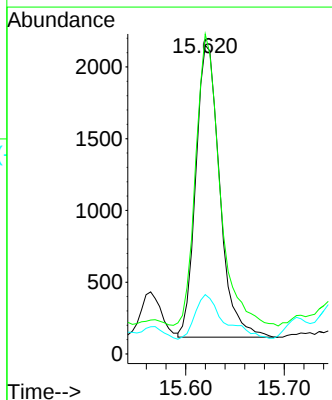
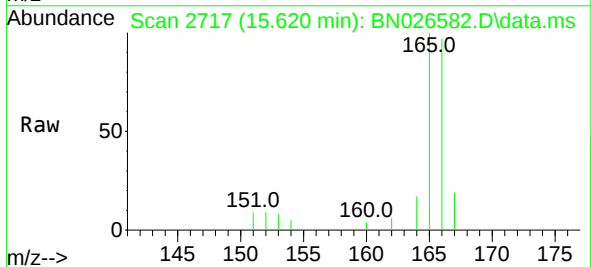
Manual Integrations  
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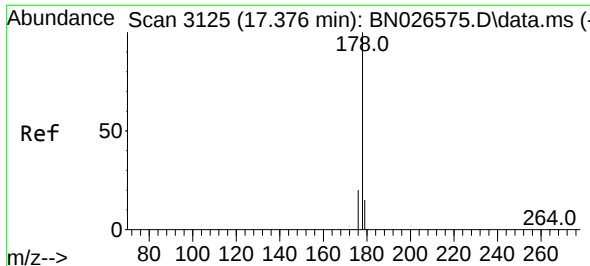
Reviewed By :Yogesh Patel 07/19/2023  
Supervised By :mohammad ahmed 07/19/2023



#12  
Fluorene  
Concen: 0.277 ng/u1  
RT: 15.620 min Scan# 2717  
Delta R.T. -0.019 min  
Lab File: BN026582.D  
Acq: 19 Jul 2023 02:38

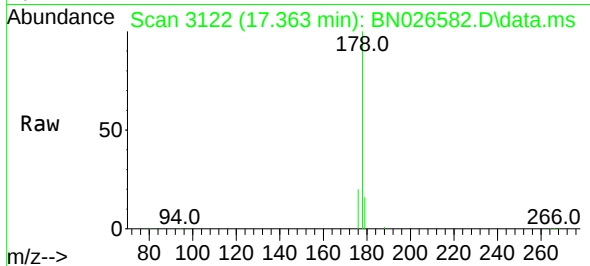
Tgt Ion:166 Resp: 3437  
Ion Ratio Lower Upper  
166 100  
165 103.6 80.6 120.8  
167 19.2 12.0 18.0#





#15  
Phenanthrene  
Concen: 1.478 ng/u1  
RT: 17.363 min Scan# 3122  
Delta R.T. -0.013 min  
Lab File: BN026582.D  
Acq: 19 Jul 2023 02:38

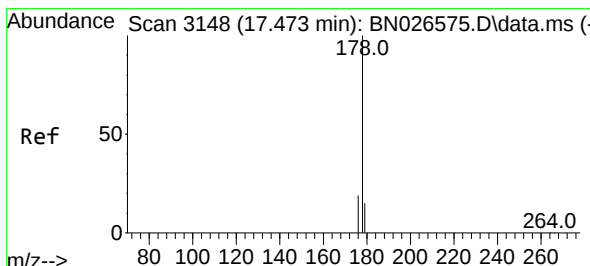
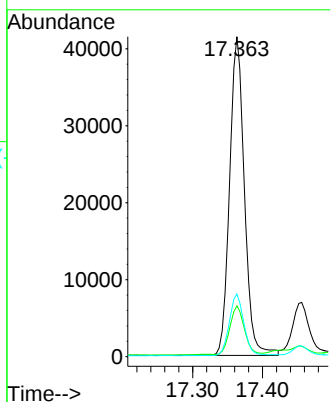
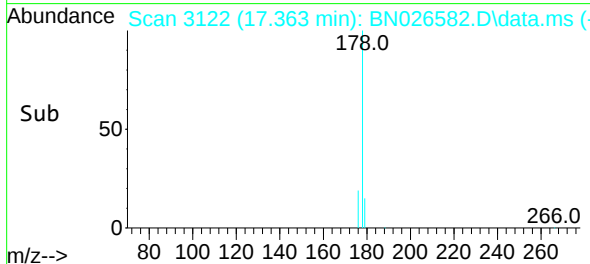
Instrument :  
BNA\_N  
ClientSampleId :  
A46X5



Tgt Ion:178 Resp: 61045  
Ion Ratio Lower Upper  
178 100  
179 15.9 13.7 20.5  
176 19.6 16.5 24.7

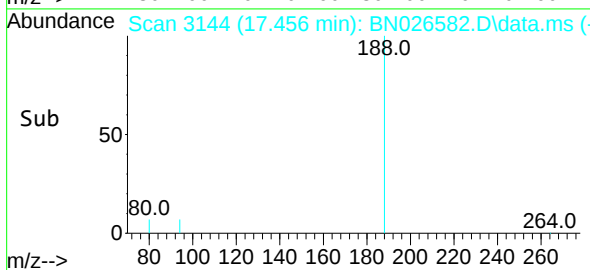
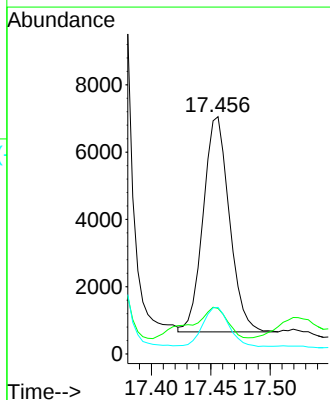
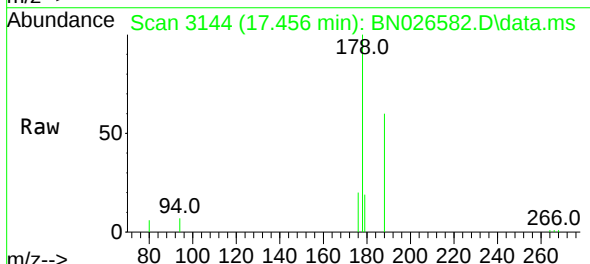
Manual Integrations  
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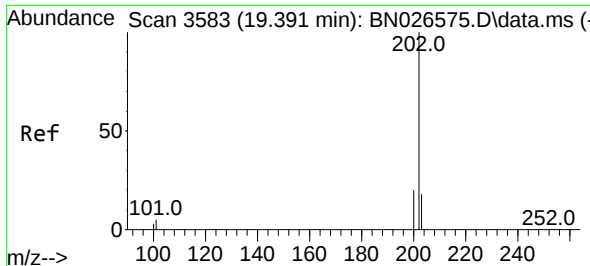
Reviewed By :Yogesh Patel 07/19/2023  
Supervised By :mohammad ahmed 07/19/2023



#16  
Anthracene  
Concen: 0.274 ng/u1  
RT: 17.456 min Scan# 3144  
Delta R.T. -0.017 min  
Lab File: BN026582.D  
Acq: 19 Jul 2023 02:38

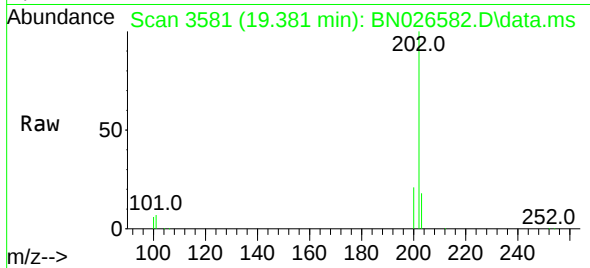
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Ion Ratio Lower Upper  
178 100  
179 19.2 14.8 22.2  
176 19.6 16.6 25.0





#19  
Fluoranthene  
Concen: 2.459 ng/u1  
RT: 19.381 min Scan# 3581  
Delta R.T. -0.010 min  
Lab File: BN026582.D  
Acq: 19 Jul 2023 02:38

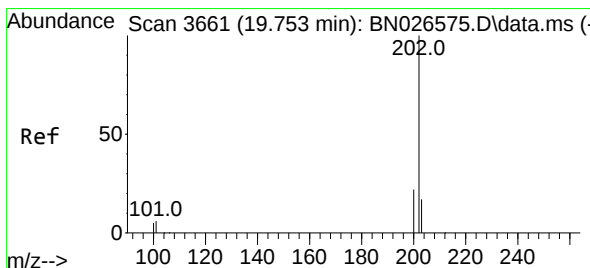
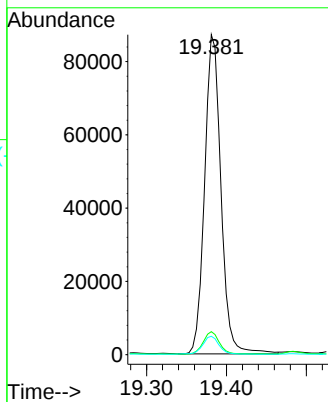
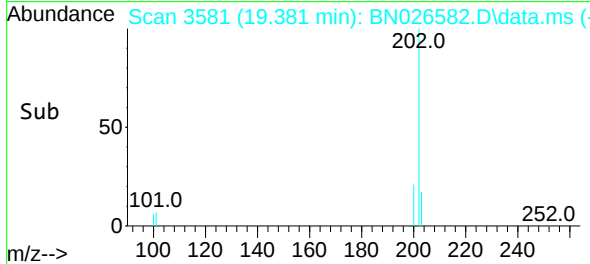
Instrument :  
BNA\_N  
ClientSampleId :  
A46X5



Tgt Ion:202 Resp: 124380  
Ion Ratio Lower Upper  
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100 5.8 6.0 9.0

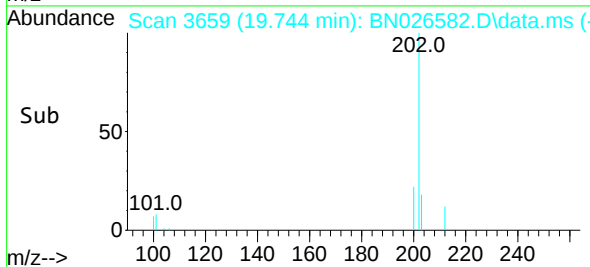
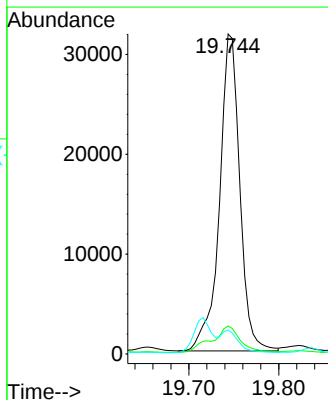
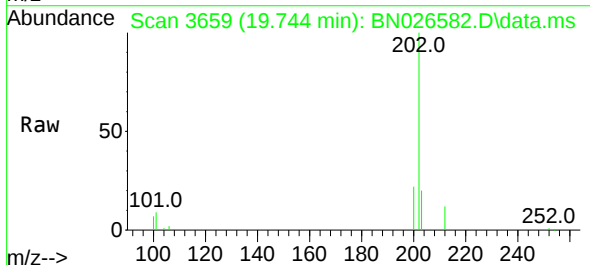
Manual Integrations  
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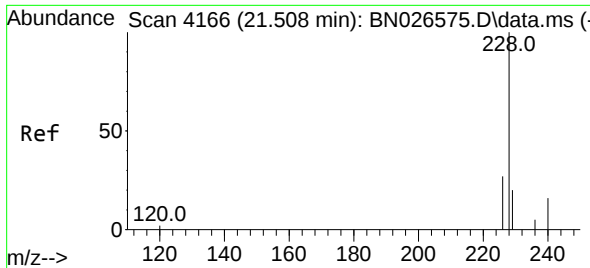
Reviewed By :Yogesh Patel 07/19/2023  
Supervised By :mohammad ahmed 07/19/2023



#20  
Pyrene  
Concen: 0.905 ng/u1  
RT: 19.744 min Scan# 3659  
Delta R.T. -0.010 min  
Lab File: BN026582.D  
Acq: 19 Jul 2023 02:38

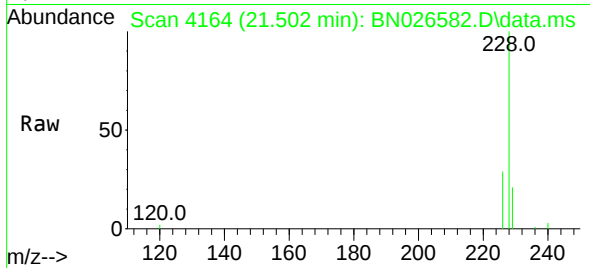
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Ion Ratio Lower Upper  
202 100  
101 8.8 8.0 12.0  
100 7.5 6.2 9.2





#21  
Benzo(a)anthracene  
Concen: 1.741 ng/ul  
RT: 21.502 min Scan# 4166  
Delta R.T. -0.006 min  
Lab File: BN026582.D  
Acq: 19 Jul 2023 02:38

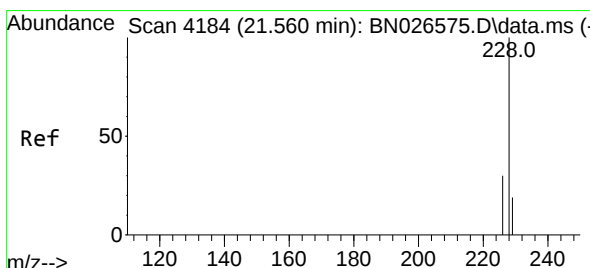
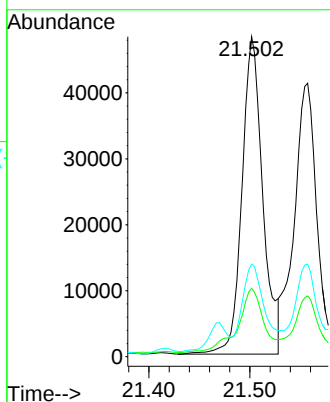
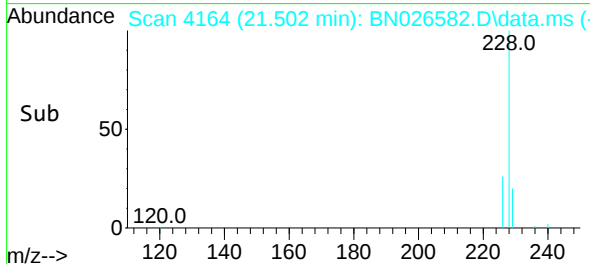
Instrument :  
BNA\_N  
ClientSampleId :  
A46X5



Tgt Ion:228 Resp: 69020  
Ion Ratio Lower Upper  
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229 21.4 16.7 25.1  
226 28.9 23.5 35.3

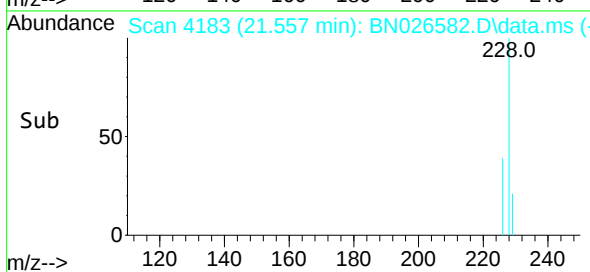
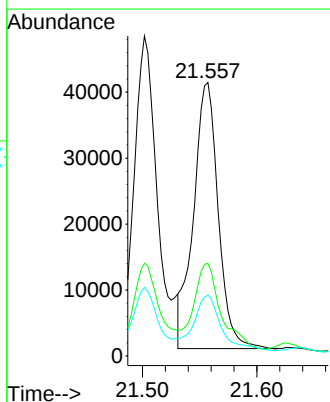
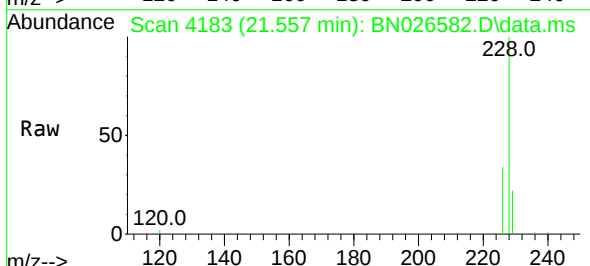
Manual Integrations  
APPROVED

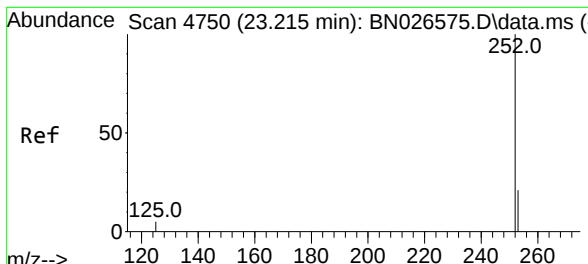
Reviewed By :Yogesh Patel 07/19/2023  
Supervised By :mohammad ahmed 07/19/2023



#22  
Chrysene  
Concen: 1.345 ng/ul  
RT: 21.557 min Scan# 4183  
Delta R.T. -0.003 min  
Lab File: BN026582.D  
Acq: 19 Jul 2023 02:38

Tgt Ion:228 Resp: 60727  
Ion Ratio Lower Upper  
228 100  
226 33.9 25.2 37.8  
229 22.2 16.4 24.6





#24  
 Benzo(b)fluoranthene  
 Concen: 1.716 ng/ul m  
 RT: 23.212 min Scan# 4749  
 Delta R.T. -0.003 min  
 Lab File: BN026582.D  
 Acq: 19 Jul 2023 02:38

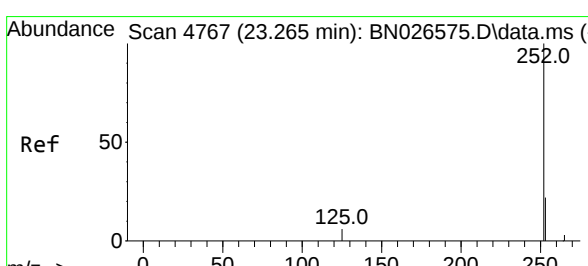
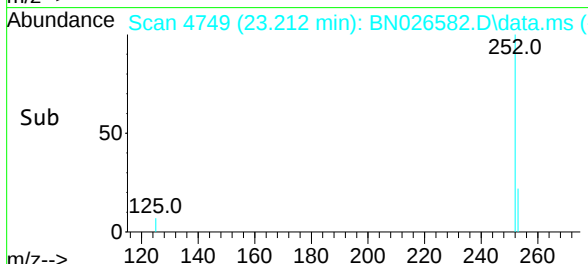
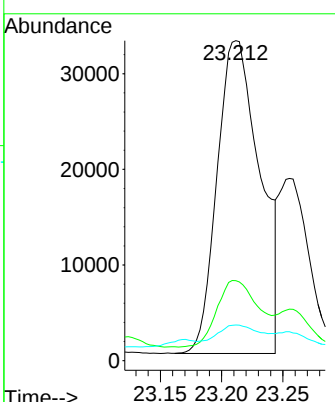
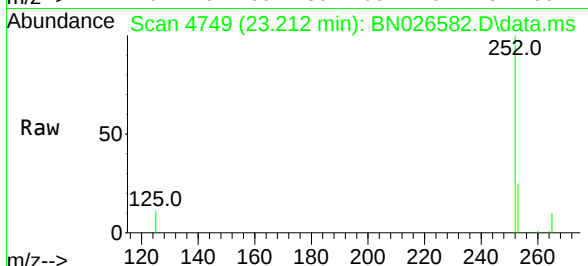
Instrument :  
 BNA\_N  
 ClientSampleId :  
 A46X5

Tgt Ion:252 Resp: 7966

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 25.0  | 0.0   | 68.6  |
| 125 | 11.1  | 0.0   | 34.0  |

Manual Integrations  
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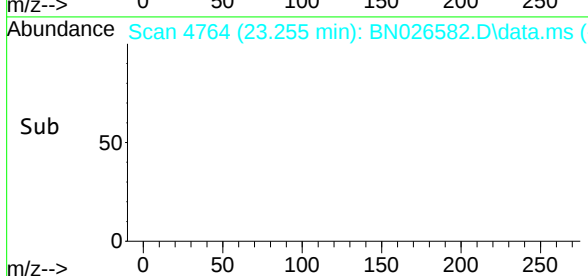
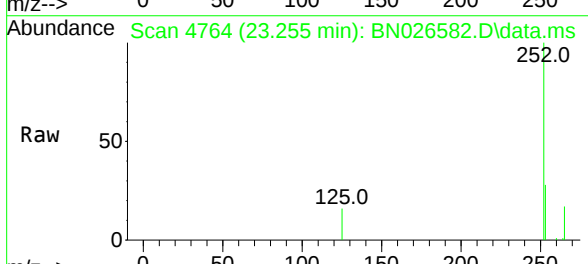
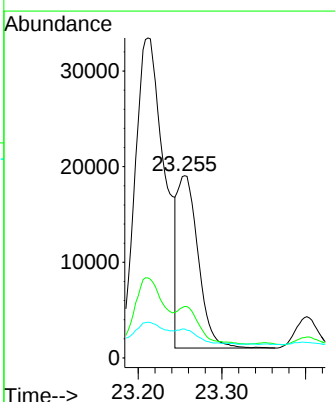
Reviewed By :Yogesh Patel 07/19/2023  
 Supervised By :mohammad ahmed 07/19/2023

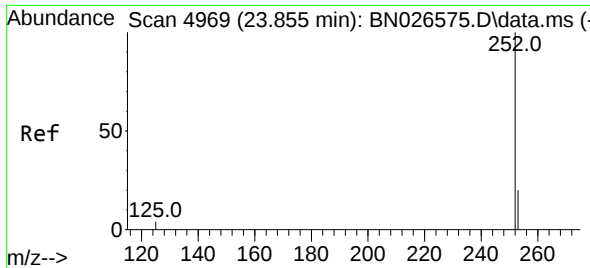


#25  
 Benzo(k)fluoranthene  
 Concen: 0.641 ng/ul m  
 RT: 23.255 min Scan# 4764  
 Delta R.T. -0.009 min  
 Lab File: BN026582.D  
 Acq: 19 Jul 2023 02:38

Tgt Ion:252 Resp: 31185

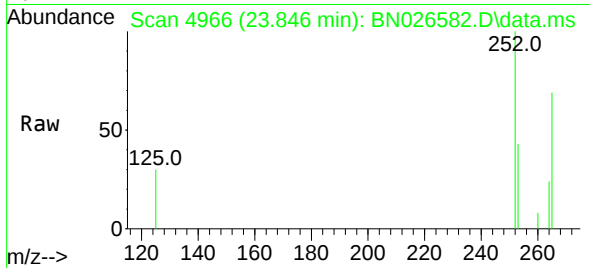
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 28.3  | 27.2  | 40.8  |
| 125 | 15.9  | 13.4  | 20.2  |





#26  
Benzo(a)pyrene  
Concen: 0.255 ng/ul  
RT: 23.846 min Scan# 4966  
Delta R.T. -0.009 min  
Lab File: BN026582.D  
Acq: 19 Jul 2023 02:38

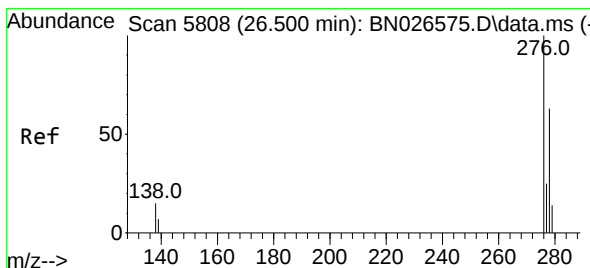
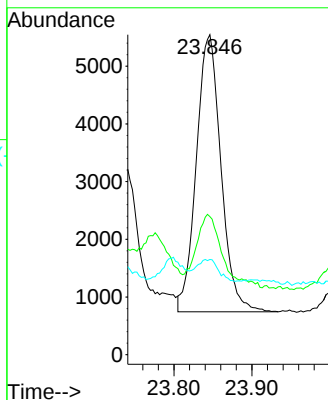
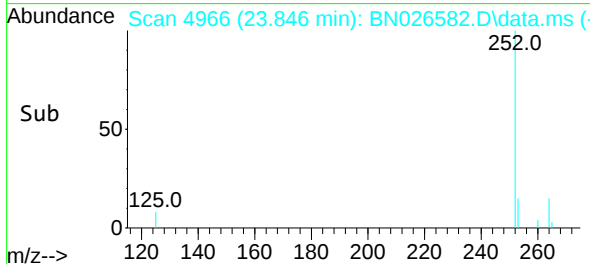
Instrument :  
BNA\_N  
ClientSampleId :  
A46X5



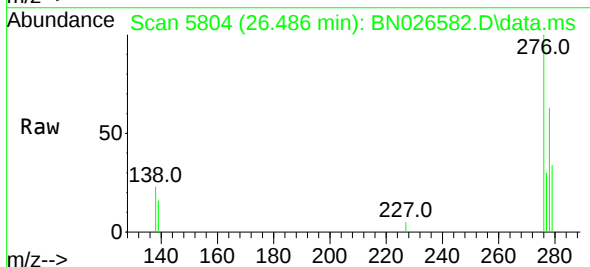
Tgt Ion:252 Resp: 10550  
Ion Ratio Lower Upper  
252 100  
253 43.1 32.6 49.0  
125 29.8 19.3 28.9

Manual Integrations  
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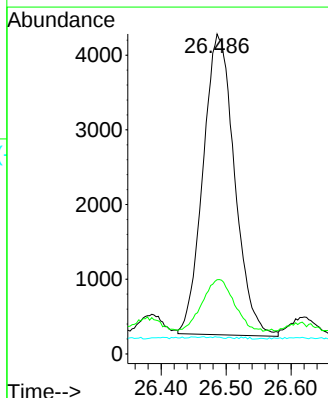
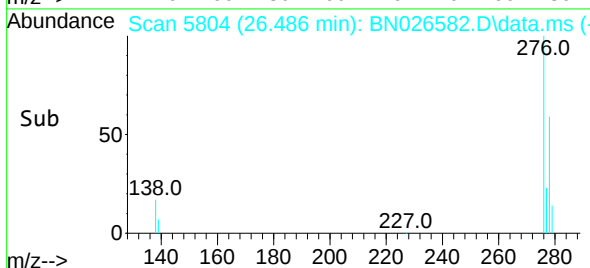
Reviewed By :Yogesh Patel 07/19/2023  
Supervised By :mohammad ahmed 07/19/2023

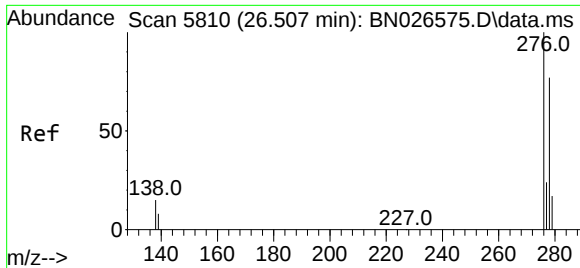


#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.250 ng/ul  
RT: 26.486 min Scan# 5804  
Delta R.T. -0.014 min  
Lab File: BN026582.D  
Acq: 19 Jul 2023 02:38



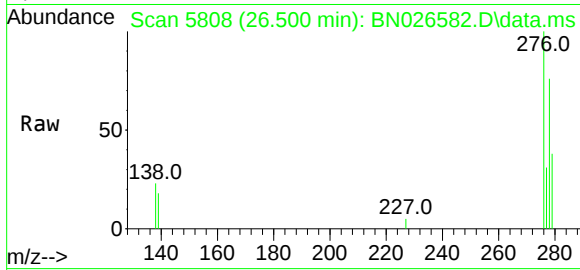
Tgt Ion:276 Resp: 13560  
Ion Ratio Lower Upper  
276 100  
138 16.8 22.2 33.4#  
227 0.1 0.1 0.1#





#28  
 Dibenzo(a,h)anthracene  
 Concen: 0.241 ng/ul  
 RT: 26.500 min Scan# 51  
 Delta R.T. -0.007 min  
 Lab File: BN026582.D  
 Acq: 19 Jul 2023 02:38

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A46X5



Tgt Ion:278 Resp: 1000  
 Ion Ratio Lower Upper  
 278 100  
 139 24.1 18.9 28.3  
 279 50.0 31.3 46.9

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 07/19/2023  
 Supervised By :mohammad ahmed 07/19/2023

