

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN071823\  
 Data File : BN026562.D  
 Acq On : 18 Jul 2023 13:39  
 Operator : MA/JU  
 Sample : 03458-04  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A46L3

Manual Integrations  
 APPROVED

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

Quant Time: Jul 19 00:16:29 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 00:15:47 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|--------|--------|----------|
| -----                       |        |      |          |        |        |          |
| Internal Standards          |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.930  | 152  | 2394     | 0.400  | ng/ul  | -0.02    |
| 4) Naphthalene-d8           | 10.737 | 136  | 7453     | 0.400  | ng/ul  | -0.01    |
| 9) Acenaphthene-d10         | 14.576 | 164  | 4918     | 0.400  | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.327 | 188  | 12712    | 0.400  | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.524 | 240  | 13616    | 0.400  | ng/ul  | #-0.01   |
| 23) Perylene-d12            | 23.965 | 264  | 12175    | 0.400  | ng/ul  | #-0.01   |
|                             |        |      |          |        |        |          |
| System Monitoring Compounds |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8           | 3.284  | 96   | 6327     | 2.007  | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.337 | 152  | 1535     | 0.152  | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.355 | 212  | 5758     | 0.122  | ng/ul  | 0.00     |
|                             |        |      |          |        |        |          |
| Target Compounds            |        |      |          |        |        |          |
|                             |        |      |          |        | Qvalue |          |
| 5) Naphthalene              | 10.787 | 128  | 7344     | 0.359  | ng/ul  | 100      |
| 7) 2-Methylnaphthalene      | 12.409 | 142  | 1814     | 0.156  | ng/ul  | 99       |
| 8) 1-Methylnaphthalene      | 12.623 | 142  | 1855     | 0.149  | ng/ul  | 98       |
| 10) Acenaphthylene          | 14.293 | 152  | 30352    | 1.260  | ng/ul  | 99       |
| 11) Acenaphthene            | 14.640 | 153  | 5957     | 0.325  | ng/ul  | 99       |
| 12) Fluorene                | 15.626 | 166  | 27713    | 1.440  | ng/ul  | 99       |
| 15) Phenanthrene            | 17.365 | 178  | 405860   | 10.025 | ng/ul  | 97       |
| 16) Anthracene              | 17.458 | 178  | 66073    | 1.881  | ng/ul  | 95       |
| 19) Fluoranthene            | 19.387 | 202  | 523648   | 8.205  | ng/ul# | 94       |
| 20) Pyrene                  | 19.750 | 202  | 318448   | 4.594  | ng/ul  | 96       |
| 21) Benzo(a)anthracene      | 21.509 | 228  | 200803   | 4.013  | ng/ul  | 98       |
| 22) Chrysene                | 21.562 | 228  | 181784   | 3.192  | ng/ul  | 98       |
| 24) Benzo(b)fluoranthene    | 23.219 | 252  | 192025m  | 4.048  | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 23.260 | 252  | 81460m   | 1.639  | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.854 | 252  | 51374    | 1.217  | ng/ul# | 76       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.495 | 276  | 50763    | 0.917  | ng/ul# | 77       |
| 28) Dibenzo(a,h)anthracene  | 26.505 | 278  | 17487m   | 0.412  | ng/ul  |          |
| 29) Benzo(g,h,i)perylene    | 27.290 | 276  | 2922     | 0.060  | ng/ul# | 83       |
| -----                       |        |      |          |        |        |          |

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

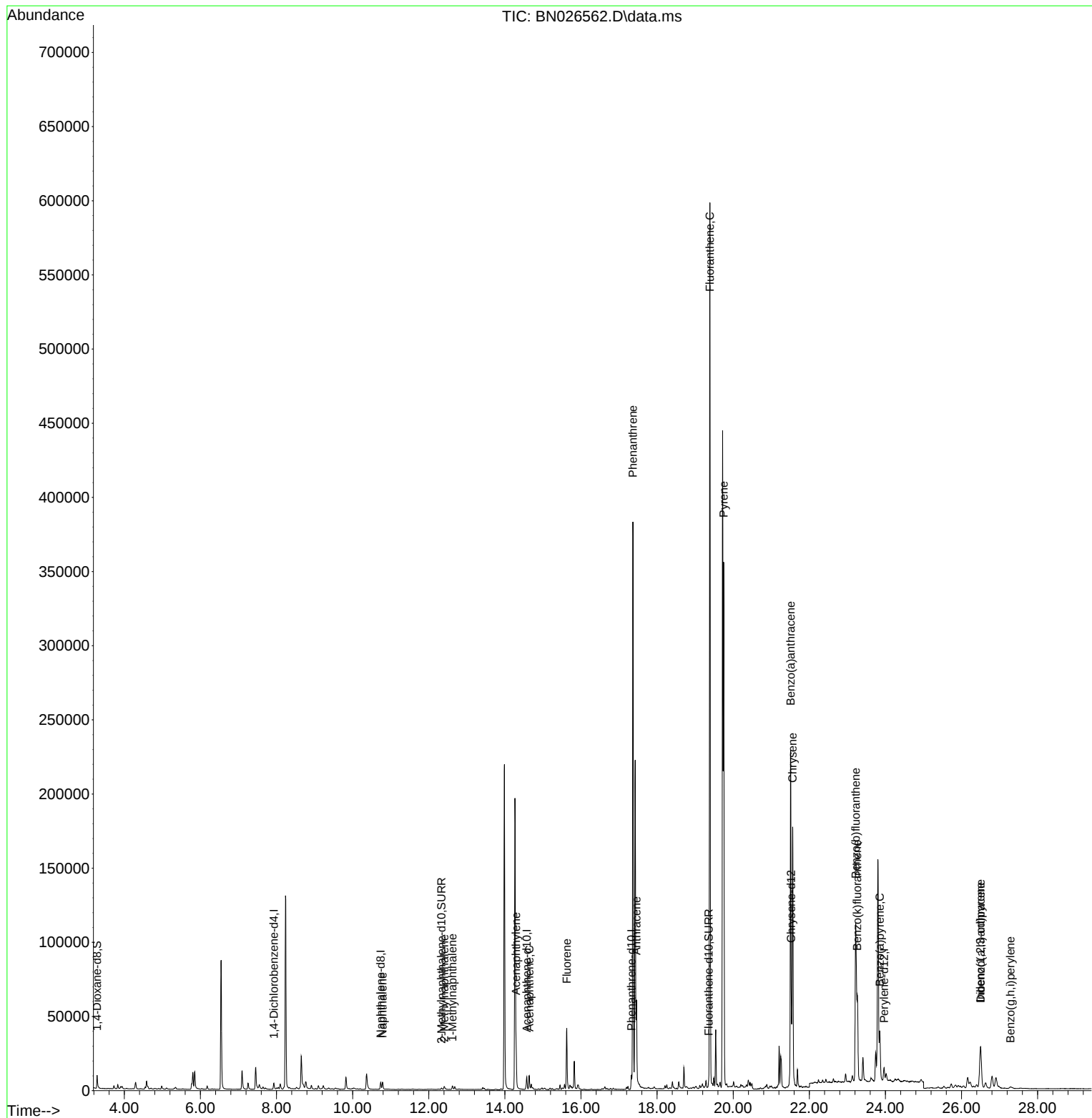
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN071823\  
Data File : BN026562.D  
Acq On : 18 Jul 2023 13:39  
Operator : MA/JU  
Sample : 03458-04  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

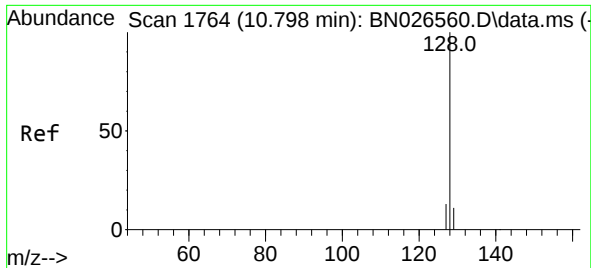
Instrument :  
BNA\_N  
ClientSampleId :  
A46L3

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Supervised By :mohammad ahmed 07/19/2023

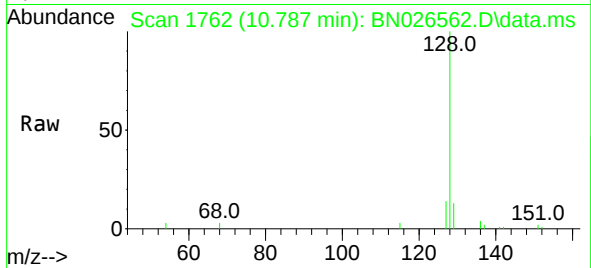
Quant Time: Jul 19 00:16:29 2023  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SFAM-EPA-SIM-BN071223.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jul 19 00:15:47 2023  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.359 ng/ul  
RT: 10.787 min Scan# 1762  
Delta R.T. -0.011 min  
Lab File: BN026562.D  
Acq: 18 Jul 2023 13:39

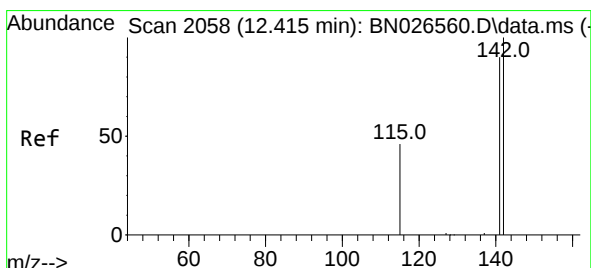
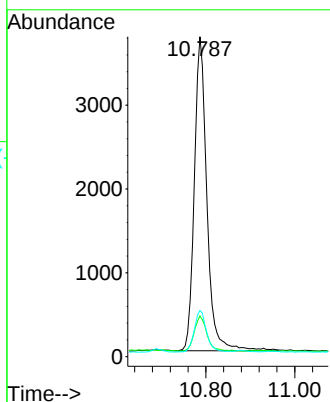
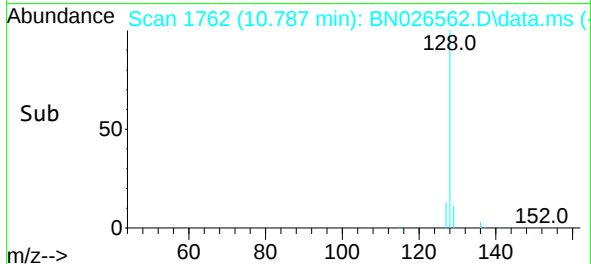
Instrument :  
BNA\_N  
ClientSampleId :  
A46L3



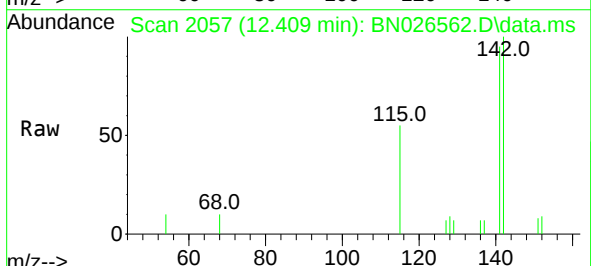
Tgt Ion:128 Resp: 7344  
Ion Ratio Lower Upper  
128 100  
129 12.8 10.2 15.2  
127 14.4 11.4 17.0

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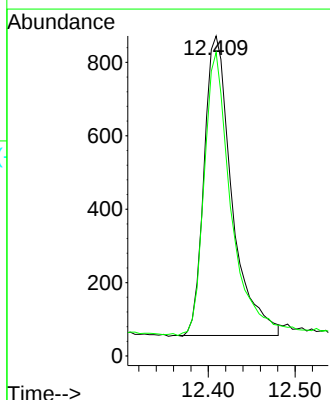
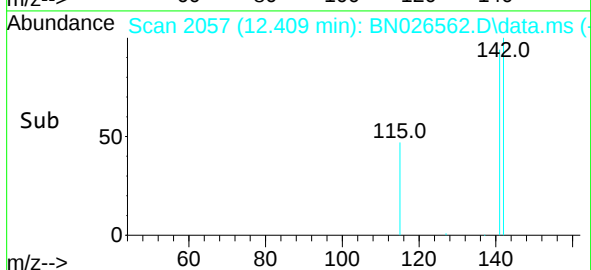
Reviewed By :Yogesh Patel 07/19/2023  
Supervised By :mohammad ahmed 07/19/2023

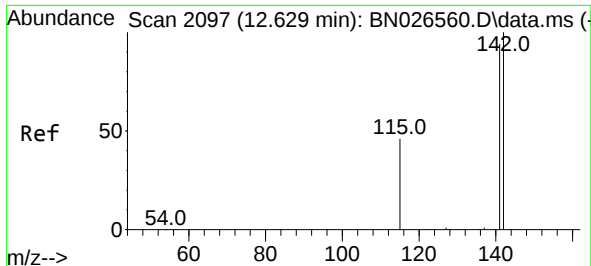


#7  
2-Methylnaphthalene  
Concen: 0.156 ng/ul  
RT: 12.409 min Scan# 2057  
Delta R.T. -0.006 min  
Lab File: BN026562.D  
Acq: 18 Jul 2023 13:39



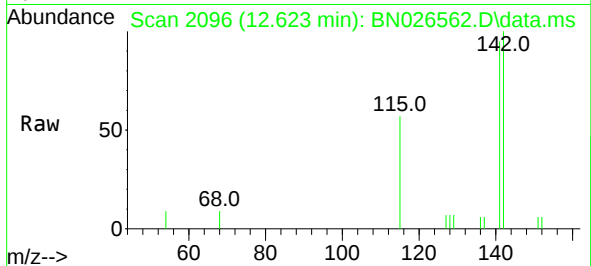
Tgt Ion:142 Resp: 1814  
Ion Ratio Lower Upper  
142 100  
141 89.7 72.3 108.5





#8  
1-Methylnaphthalene  
Concen: 0.149 ng/ul  
RT: 12.623 min Scan# 2096  
Delta R.T. -0.006 min  
Lab File: BN026562.D  
Acq: 18 Jul 2023 13:39

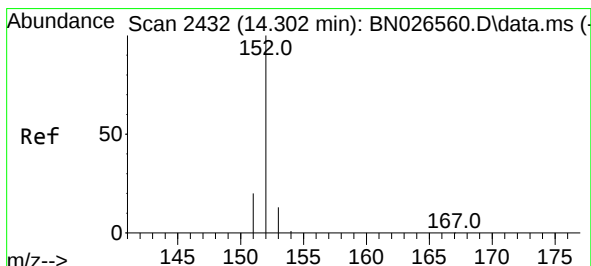
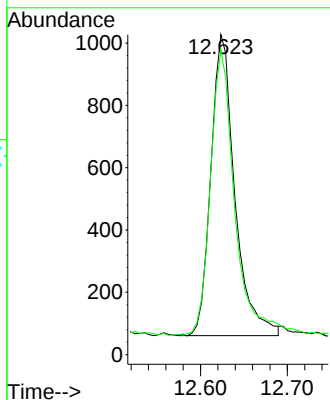
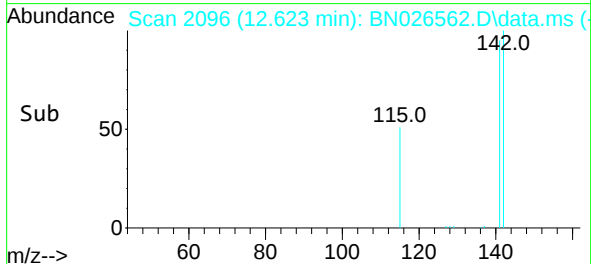
Instrument :  
BNA\_N  
ClientSampleId :  
A46L3



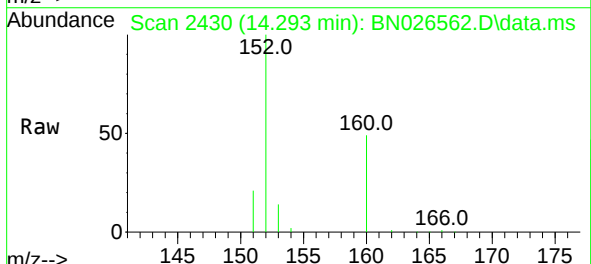
Tgt Ion:142 Resp: 185  
Ion Ratio Lower Upper  
142 100  
141 94.9 74.5 111.7

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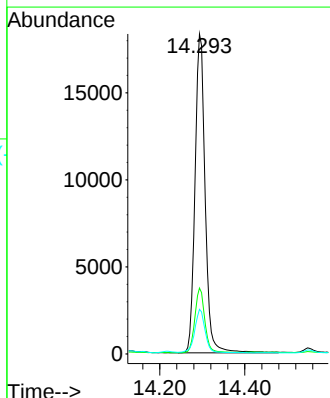
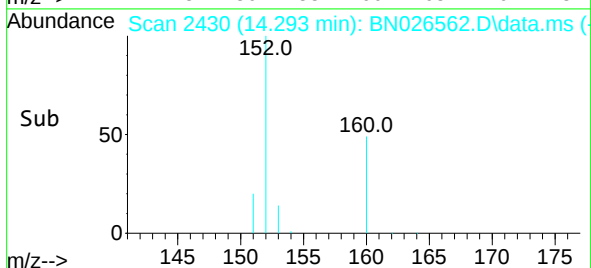
Reviewed By :Yogesh Patel 07/19/2023  
Supervised By :mohammad ahmed 07/19/2023

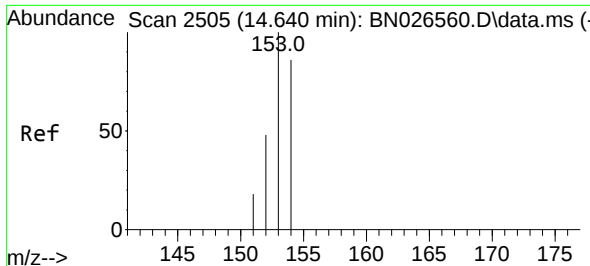


#10  
Acenaphthylene  
Concen: 1.260 ng/ul  
RT: 14.293 min Scan# 2430  
Delta R.T. -0.008 min  
Lab File: BN026562.D  
Acq: 18 Jul 2023 13:39



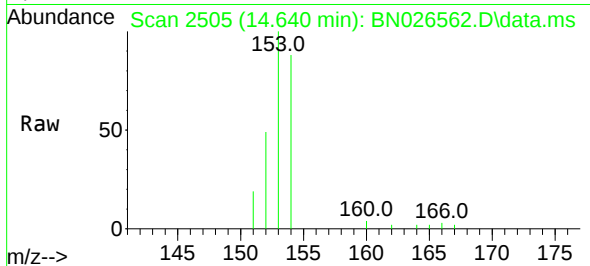
Tgt Ion:152 Resp: 30352  
Ion Ratio Lower Upper  
152 100  
151 20.6 17.0 25.6  
153 14.0 11.4 17.2





#11  
Acenaphthene  
Concen: 0.325 ng/ul  
RT: 14.640 min Scan# 2118  
Delta R.T. 0.001 min  
Lab File: BN026562.D  
Acq: 18 Jul 2023 13:39

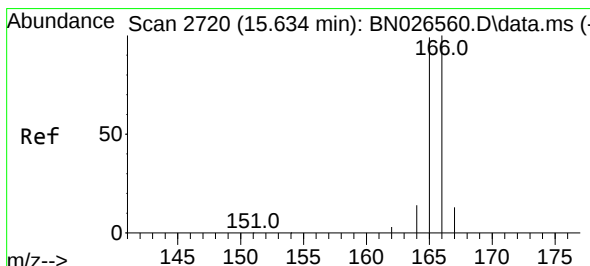
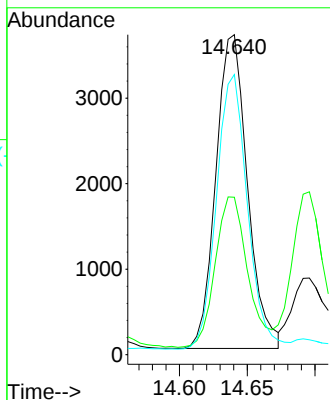
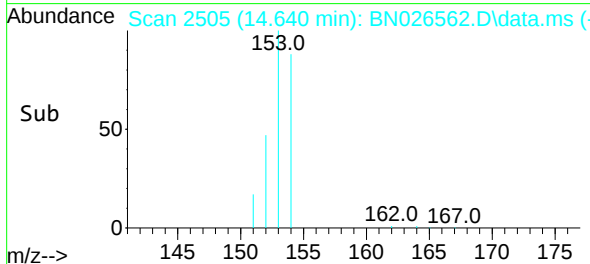
Instrument :  
BNA\_N  
ClientSampleId :  
A46L3



Tgt Ion:153 Resp: 595  
Ion Ratio Lower Upper  
153 100  
152 49.2 40.2 60.4  
154 87.6 69.3 103.9

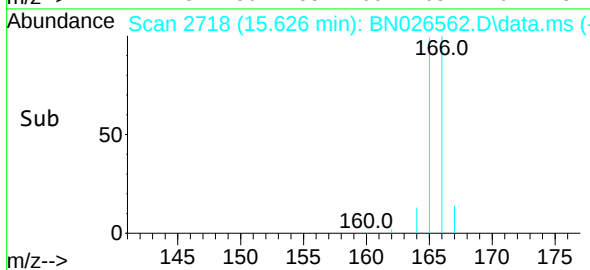
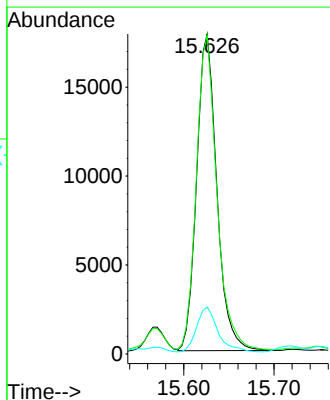
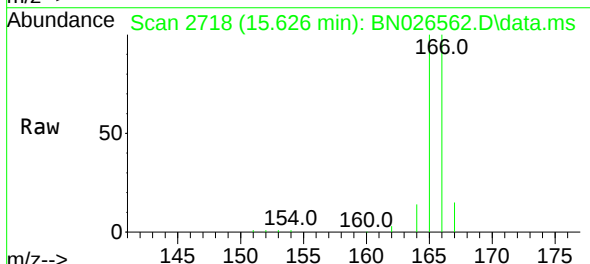
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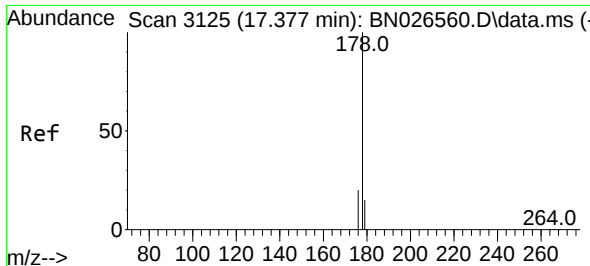
Reviewed By :Yogesh Patel 07/19/2023  
Supervised By :mohammad ahmed 07/19/2023



#12  
Fluorene  
Concen: 1.440 ng/ul  
RT: 15.626 min Scan# 2718  
Delta R.T. -0.008 min  
Lab File: BN026562.D  
Acq: 18 Jul 2023 13:39

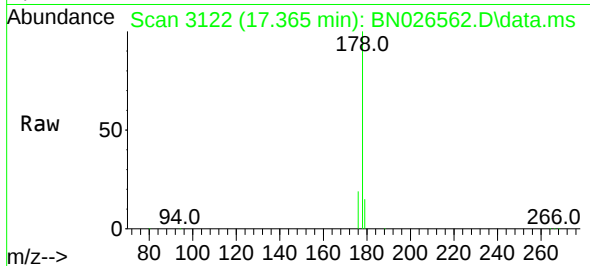
Tgt Ion:166 Resp: 27713  
Ion Ratio Lower Upper  
166 100  
165 99.6 80.6 120.8  
167 14.6 12.0 18.0





#15  
Phenanthrene  
Concen: 10.025 ng/u1  
RT: 17.365 min Scan# 3122  
Delta R.T. -0.012 min  
Lab File: BN026562.D  
Acq: 18 Jul 2023 13:39

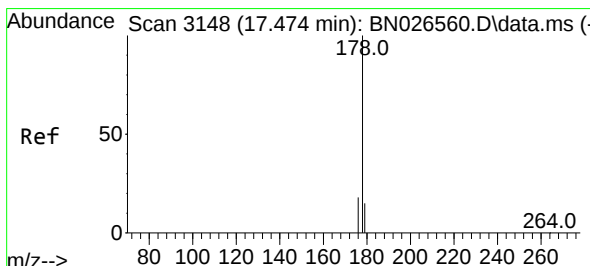
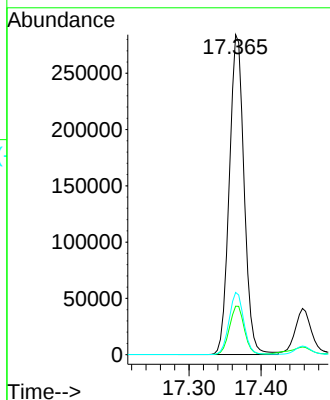
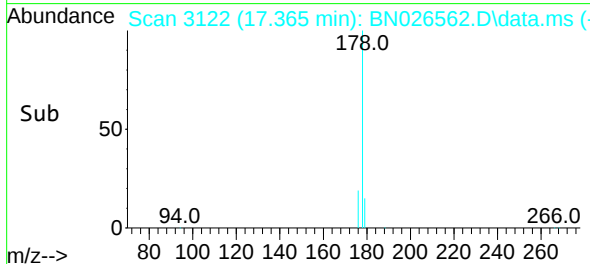
Instrument :  
BNA\_N  
ClientSampleId :  
A46L3



Tgt Ion:178 Resp: 405860  
Ion Ratio Lower Upper  
178 100  
179 15.1 13.7 20.5  
176 19.5 16.5 24.7

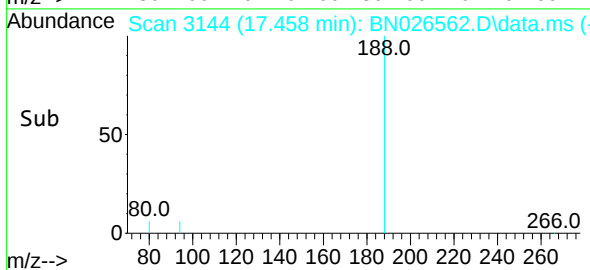
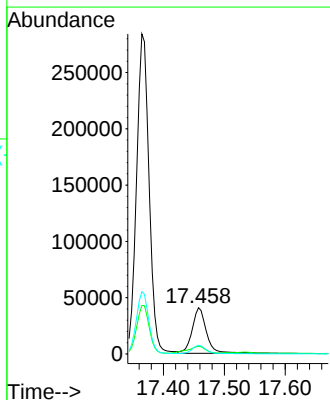
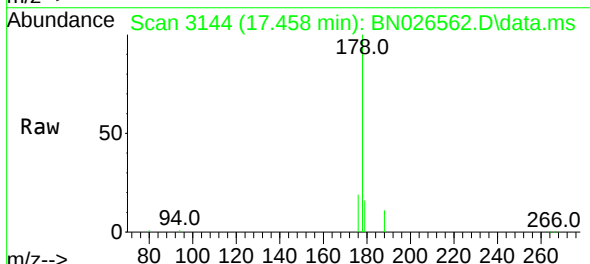
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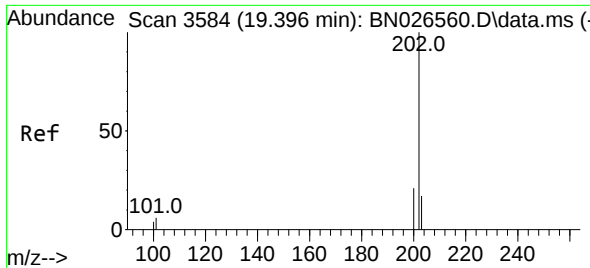
Reviewed By :Yogesh Patel 07/19/2023  
Supervised By :mohammad ahmed 07/19/2023



#16  
Anthracene  
Concen: 1.881 ng/u1  
RT: 17.458 min Scan# 3144  
Delta R.T. -0.016 min  
Lab File: BN026562.D  
Acq: 18 Jul 2023 13:39

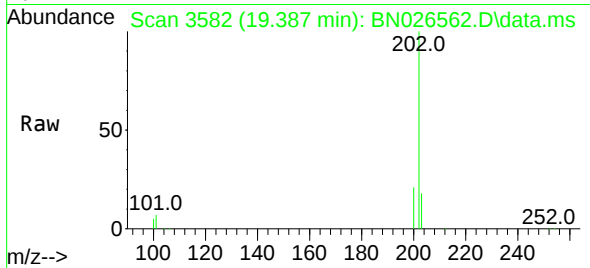
Tgt Ion:178 Resp: 66073  
Ion Ratio Lower Upper  
178 100  
179 16.5 14.8 22.2  
176 18.7 16.6 25.0





#19  
Fluoranthene  
Concen: 8.205 ng/u1  
RT: 19.387 min Scan# 3582  
Delta R.T. -0.009 min  
Lab File: BN026562.D  
Acq: 18 Jul 2023 13:39

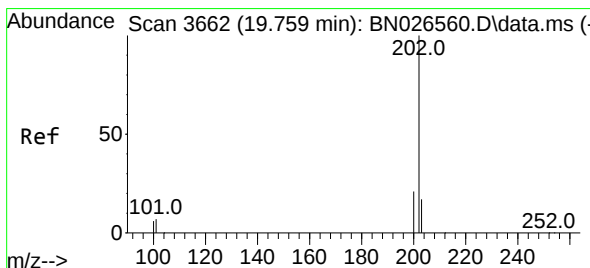
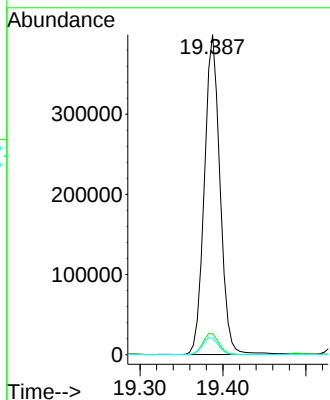
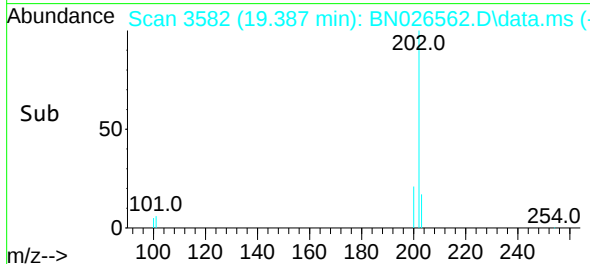
Instrument :  
BNA\_N  
ClientSampleId :  
A46L3



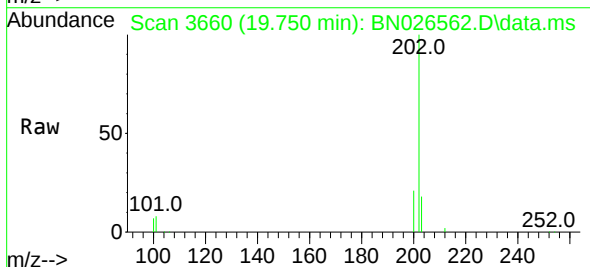
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Ion Ratio Lower Upper  
202 100  
101 6.6 7.0 10.4  
100 5.1 6.0 9.0

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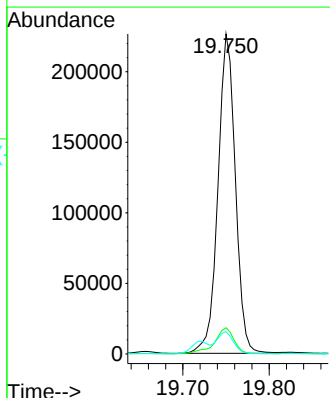
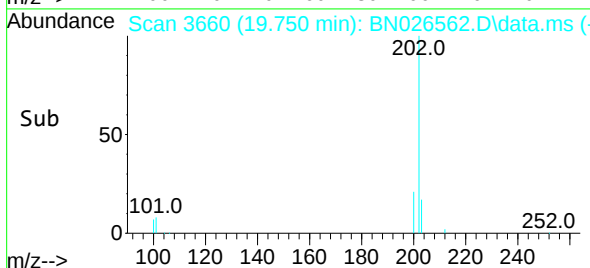
Reviewed By :Yogesh Patel 07/19/2023  
Supervised By :mohammad ahmed 07/19/2023

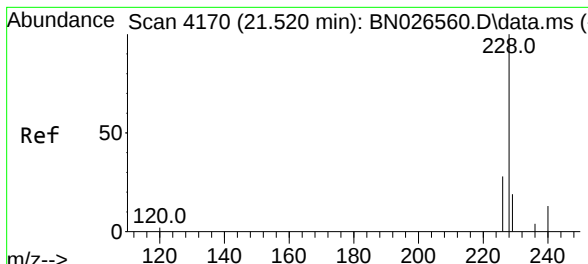


#20  
Pyrene  
Concen: 4.594 ng/u1  
RT: 19.750 min Scan# 3660  
Delta R.T. -0.009 min  
Lab File: BN026562.D  
Acq: 18 Jul 2023 13:39



Tgt Ion:202 Resp: 318448  
Ion Ratio Lower Upper  
202 100  
101 8.2 8.0 12.0  
100 7.0 6.2 9.2





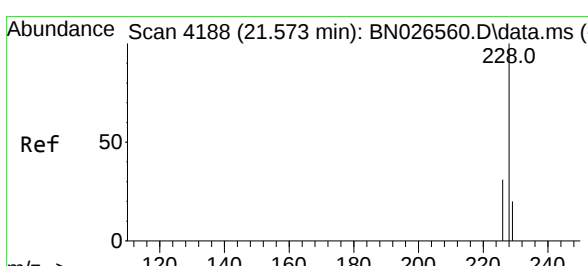
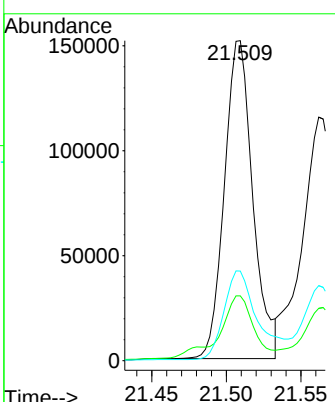
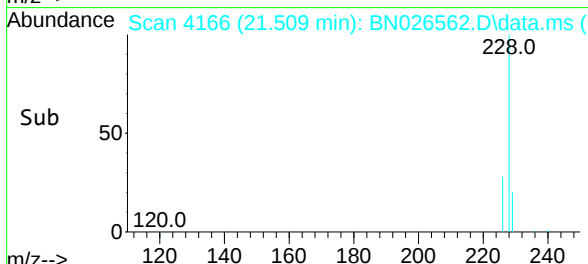
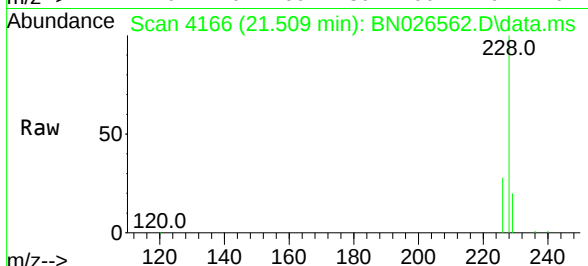
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 Benzo(a)anthracene  
 Concen: 4.013 ng/ul  
 RT: 21.509 min Scan# 4166  
 Delta R.T. -0.011 min  
 Lab File: BN026562.D  
 Acq: 18 Jul 2023 13:39

Instrument : BNA\_N  
 ClientSampleId : A46L3

Tgt Ion:228 Resp: 20080

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 229 | 20.2  | 16.7  | 25.1  |
| 226 | 28.0  | 23.5  | 35.3  |

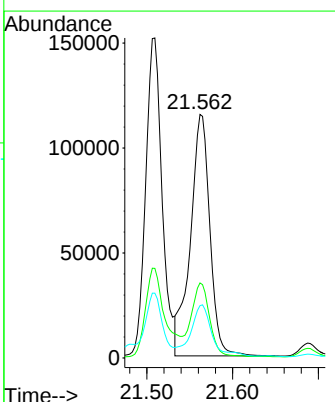
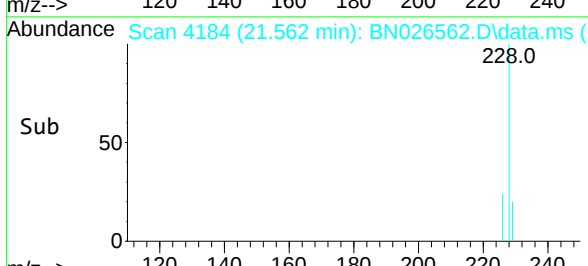
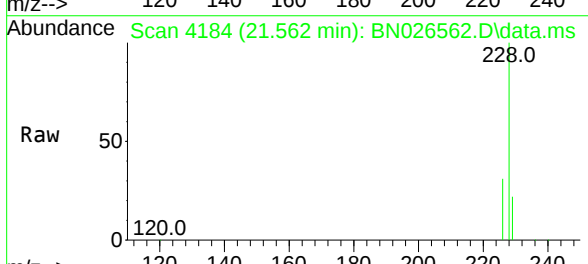
Manual Integrations  
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 Reviewed By :Yogesh Patel 07/19/2023  
 Supervised By :mohammad ahmed 07/19/2023

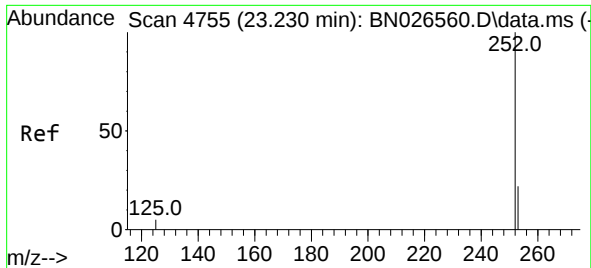


#22  
 Chrysene  
 Concen: 3.192 ng/ul  
 RT: 21.562 min Scan# 4184  
 Delta R.T. -0.011 min  
 Lab File: BN026562.D  
 Acq: 18 Jul 2023 13:39

Tgt Ion:228 Resp: 181784

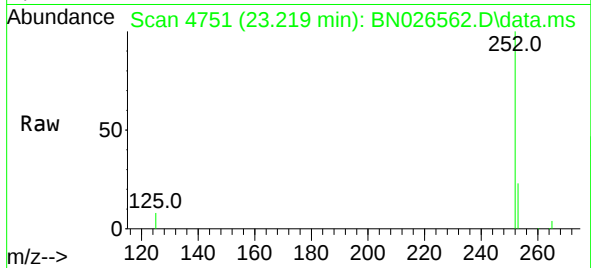
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 30.8  | 25.2  | 37.8  |
| 229 | 21.5  | 16.4  | 24.6  |





#24  
Benzo(b)fluoranthene  
Concen: 4.048 ng/ul m  
RT: 23.219 min Scan# 4751  
Delta R.T. -0.011 min  
Lab File: BN026562.D  
Acq: 18 Jul 2023 13:39

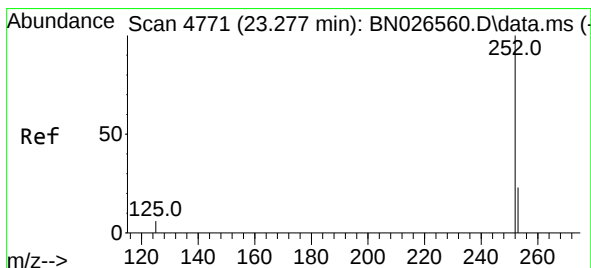
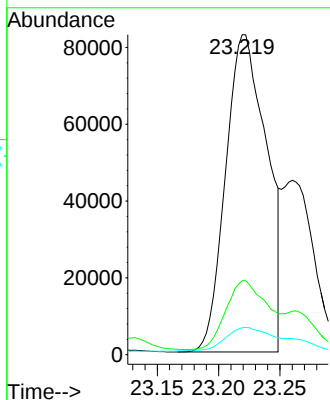
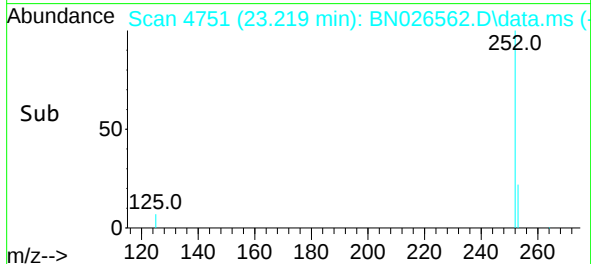
Instrument :  
BNA\_N  
ClientSampleId :  
A46L3



Tgt Ion:252 Resp: 192025  
Ion Ratio Lower Upper  
252 100  
253 23.2 0.0 68.6  
125 8.5 0.0 34.0

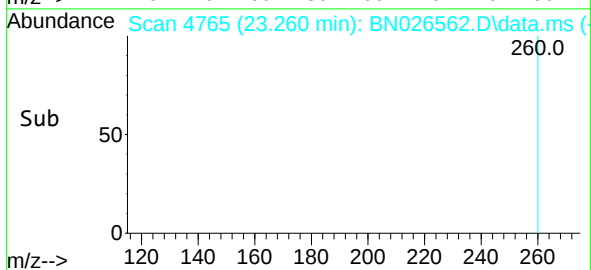
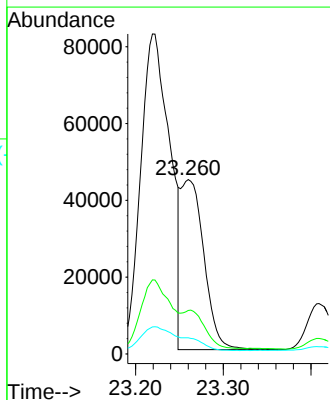
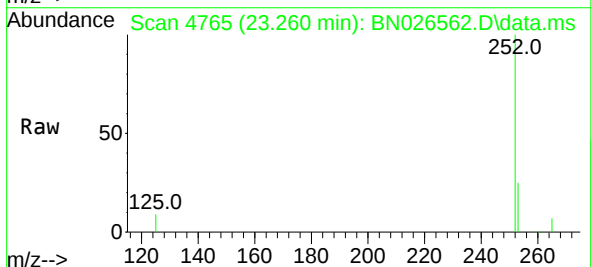
Manual Integrations  
APPROVED

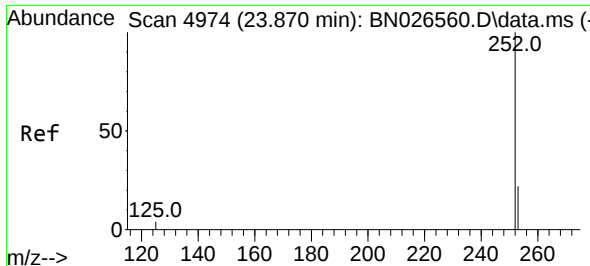
Reviewed By :Yogesh Patel 07/19/2023  
Supervised By :mohammad ahmed 07/19/2023



#25  
Benzo(k)fluoranthene  
Concen: 1.639 ng/ul m  
RT: 23.260 min Scan# 4765  
Delta R.T. -0.017 min  
Lab File: BN026562.D  
Acq: 18 Jul 2023 13:39

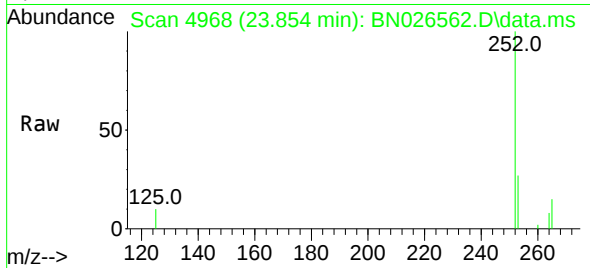
Tgt Ion:252 Resp: 81460  
Ion Ratio Lower Upper  
252 100  
253 25.0 27.2 40.8#  
125 9.3 13.4 20.2#





#26  
Benzo(a)pyrene  
Concen: 1.217 ng/ul  
RT: 23.854 min Scan# 4974  
Delta R.T. -0.017 min  
Lab File: BN026562.D  
Acq: 18 Jul 2023 13:39

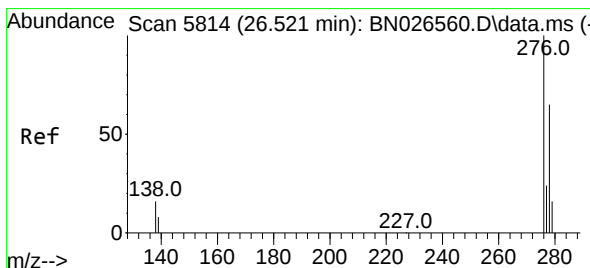
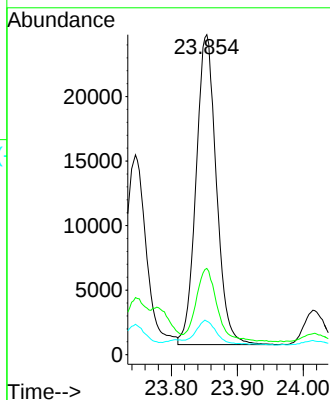
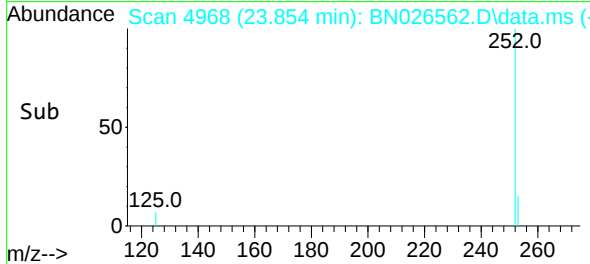
Instrument :  
BNA\_N  
ClientSampleId :  
A46L3



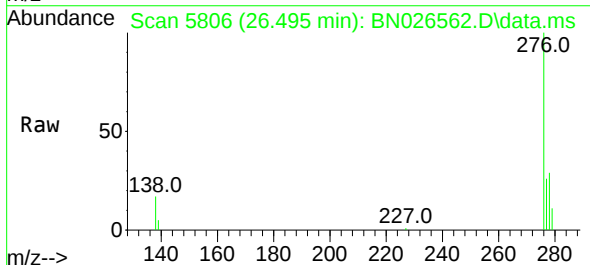
Tgt Ion:252 Resp: 51374  
Ion Ratio Lower Upper  
252 100  
253 26.9 32.6 49.0#  
125 10.4 19.3 28.9#

Manual Integrations  
APPROVED

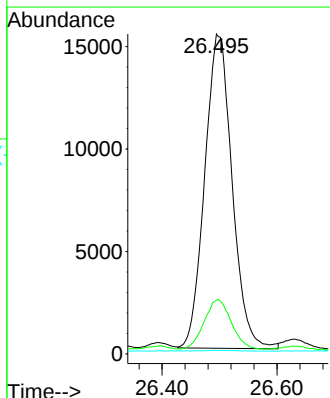
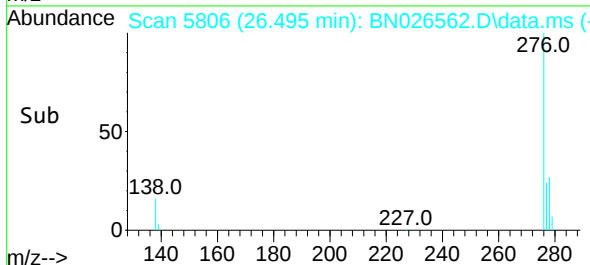
Reviewed By :Yogesh Patel 07/19/2023  
Supervised By :mohammad ahmed 07/19/2023

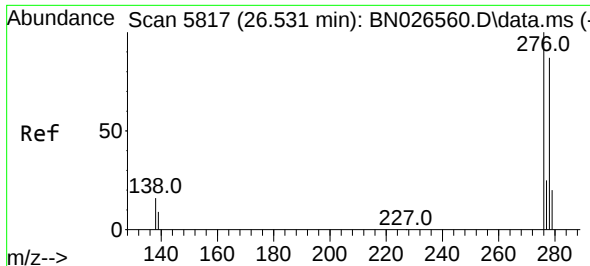


#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.917 ng/ul  
RT: 26.495 min Scan# 5806  
Delta R.T. -0.026 min  
Lab File: BN026562.D  
Acq: 18 Jul 2023 13:39



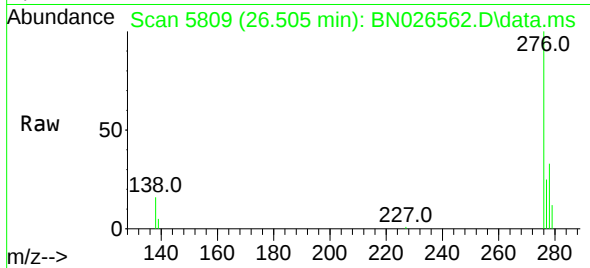
Tgt Ion:276 Resp: 50763  
Ion Ratio Lower Upper  
276 100  
138 15.7 22.2 33.4#  
227 0.2 0.1 0.1#





#28  
Dibenzo(a,h)anthracene  
Concen: 0.412 ng/ul m  
RT: 26.505 min Scan# 5809  
Delta R.T. -0.026 min  
Lab File: BN026562.D  
Acq: 18 Jul 2023 13:39

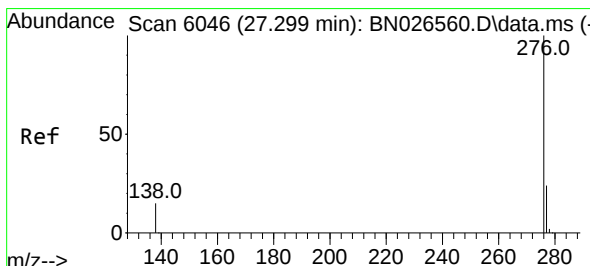
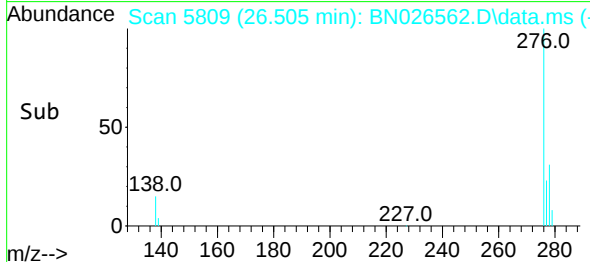
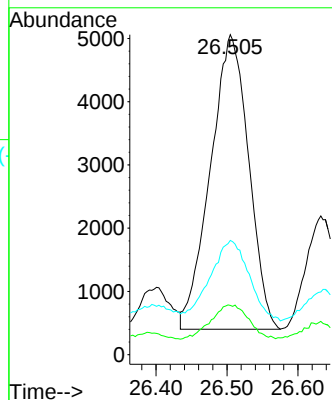
Instrument :  
BNA\_N  
ClientSampleId :  
A46L3



Tgt Ion:278 Resp: 1748  
Ion Ratio Lower Upper  
278 100  
139 15.4 18.9 28.3  
279 35.7 31.3 46.9

Manual Integrations  
APPROVED

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



#29  
Benzo(g,h,i)perylene  
Concen: 0.060 ng/ul  
RT: 27.290 min Scan# 6043  
Delta R.T. -0.009 min  
Lab File: BN026562.D  
Acq: 18 Jul 2023 13:39

Tgt Ion:276 Resp: 2922  
Ion Ratio Lower Upper  
276 100  
138 33.0 22.6 34.0  
277 40.8 21.8 32.8

