

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081523\  
 Data File : BN026906.D  
 Acq On : 15 Aug 2023 18:10  
 Operator : MA/JU  
 Sample : 03965-06  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A48H2

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 08/16/2023  
 Supervised By :Sohil Jodhani 08/16/2023

Quant Time: Aug 16 00:54:37 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN080323.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 16 00:50:05 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 8.110  | 152  | 17608    | 0.400 | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.938 | 136  | 58959    | 0.400 | ng/ul  | 0.00     |
| 9) Acenaphthene-d10         | 14.735 | 164  | 34224    | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.481 | 188  | 76137    | 0.400 | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.653 | 240  | 65032    | 0.400 | ng/ul  | 0.00     |
| 23) Perylene-d12            | 24.205 | 264  | 69315    | 0.400 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.439  | 96   | 53330    | 2.551 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.511 | 152  | 15893    | 0.183 | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.497 | 212  | 40309    | 0.196 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.988 | 128  | 12824    | 0.077 | ng/ul  | 96       |
| 7) 2-Methylnaphthalene      | 12.583 | 142  | 2735     | 0.027 | ng/ul  | 99       |
| 10) Acenaphthylene          | 14.467 | 152  | 16514    | 0.086 | ng/ul  | 98       |
| 11) Acenaphthene            | 14.800 | 153  | 3862     | 0.029 | ng/ul  | 97       |
| 12) Fluorene                | 15.781 | 166  | 6735     | 0.045 | ng/ul  | 98       |
| 15) Phenanthrene            | 17.523 | 178  | 139457   | 0.558 | ng/ul  | 99       |
| 16) Anthracene              | 17.616 | 178  | 25764    | 0.114 | ng/ul  | 99       |
| 19) Fluoranthene            | 19.529 | 202  | 393702   | 1.457 | ng/ul  | 100      |
| 20) Pyrene                  | 19.896 | 202  | 337836m  | 1.172 | ng/ul  |          |
| 21) Benzo(a)anthracene      | 21.638 | 228  | 182840   | 0.707 | ng/ul  | 97       |
| 22) Chrysene                | 21.691 | 228  | 204189   | 0.800 | ng/ul  | 98       |
| 24) Benzo(b)fluoranthene    | 23.413 | 252  | 285526m  | 1.089 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 23.462 | 252  | 99214m   | 0.384 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 24.091 | 252  | 187846   | 0.794 | ng/ul  | 99       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.901 | 276  | 123812   | 0.400 | ng/ul# | 90       |
| 28) Dibenzo(a,h)anthracene  | 26.924 | 278  | 27081    | 0.110 | ng/ul# | 84       |
| 29) Benzo(g,h,i)perylene    | 27.739 | 276  | 119588   | 0.464 | ng/ul  | 99       |
| -----                       |        |      |          |       |        |          |

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

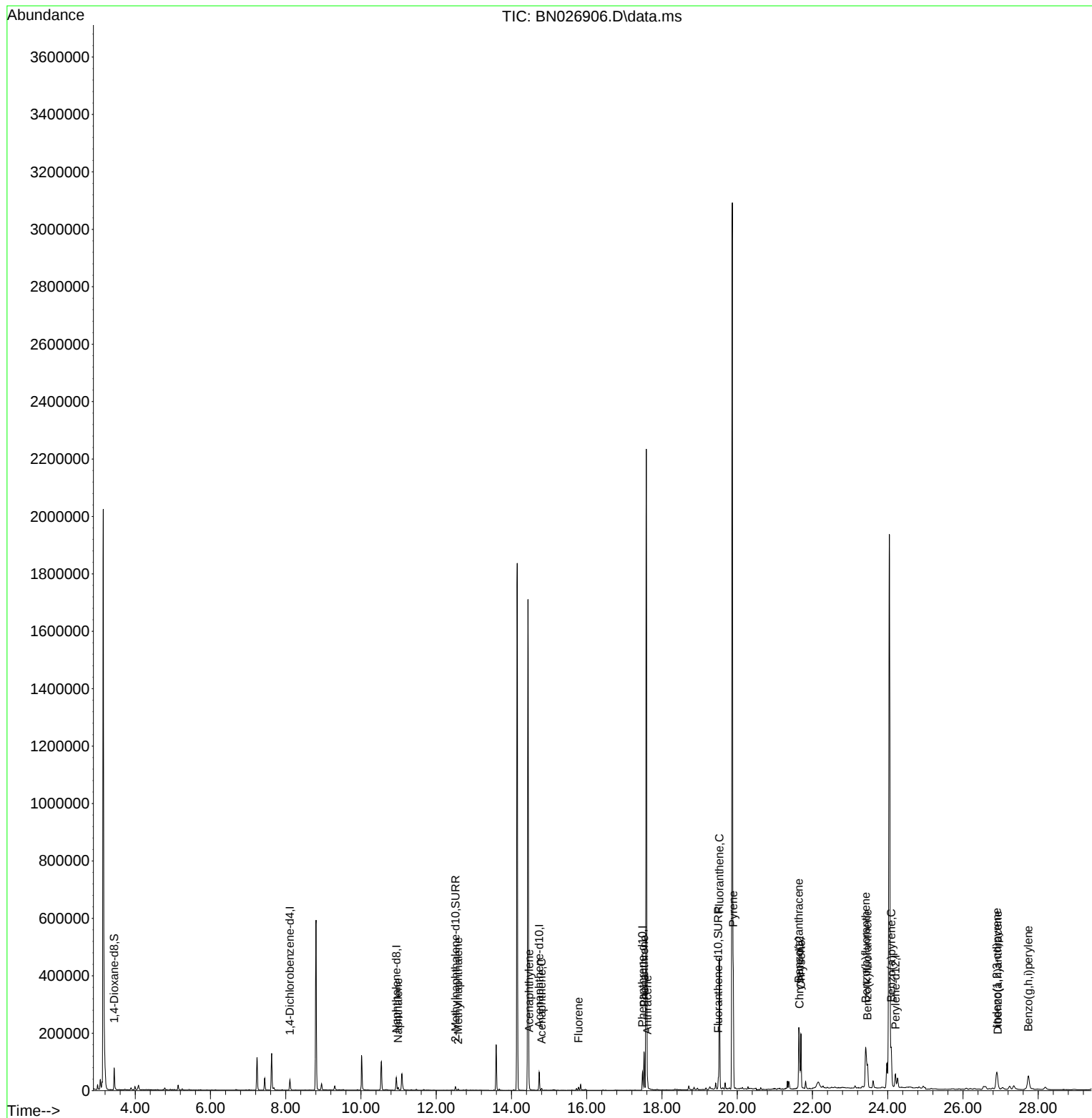
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081523\  
Data File : BN026906.D  
Acq On : 15 Aug 2023 18:10  
Operator : MA/JU  
Sample : 03965-06  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

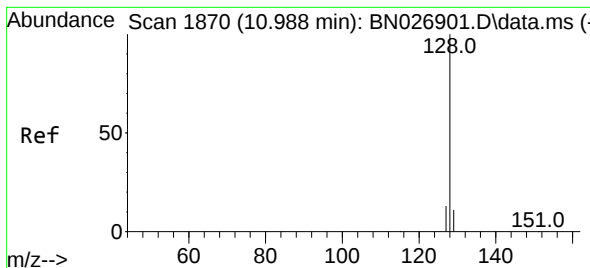
Instrument :  
BNA\_N  
ClientSampleId :  
A48H2

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 08/16/2023  
Supervised By :Sohil Jodhani 08/16/2023

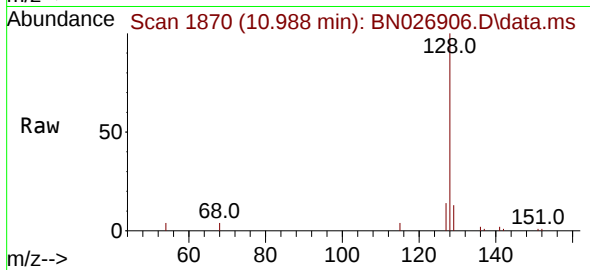
Quant Time: Aug 16 00:54:37 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN080323.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 16 00:50:05 2023  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.077 ng/ul  
RT: 10.988 min Scan# 1870  
Delta R.T. 0.006 min  
Lab File: BN026906.D  
Acq: 15 Aug 2023 18:10

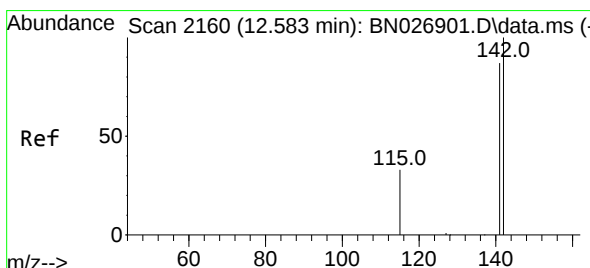
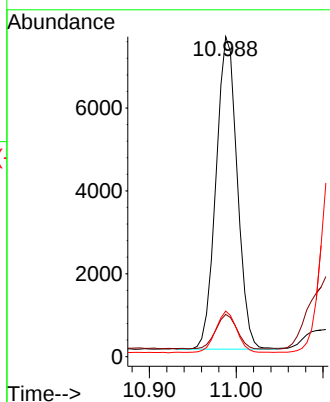
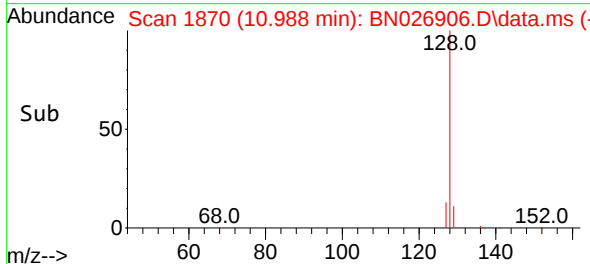
Instrument :  
BNA\_N  
ClientSampleId :  
A48H2



Tgt Ion:128 Resp: 12824  
Ion Ratio Lower Upper  
128 100  
129 13.2 9.2 13.8  
127 14.2 10.5 15.7

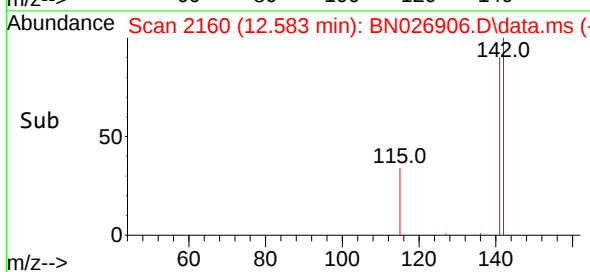
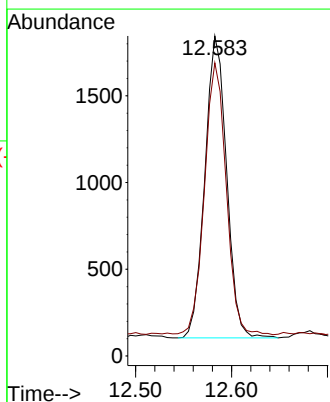
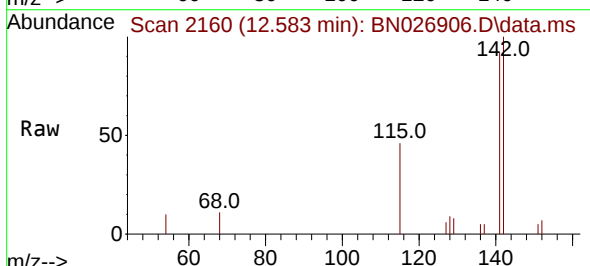
Manual Integrations  
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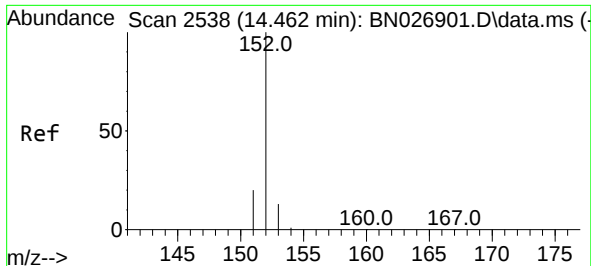
Reviewed By :Yogesh Patel 08/16/2023  
Supervised By :Sohil Jodhani 08/16/2023



#7  
2-Methylnaphthalene  
Concen: 0.027 ng/ul  
RT: 12.583 min Scan# 2160  
Delta R.T. 0.000 min  
Lab File: BN026906.D  
Acq: 15 Aug 2023 18:10

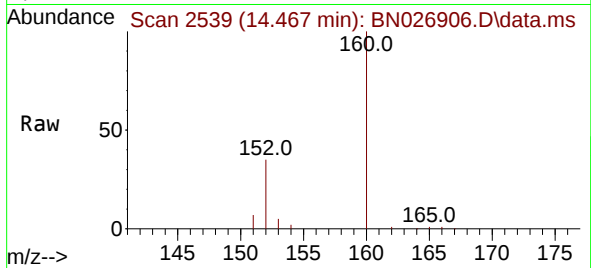
Tgt Ion:142 Resp: 2735  
Ion Ratio Lower Upper  
142 100  
141 89.8 70.9 106.3





#10  
Acenaphthylene  
Concen: 0.086 ng/ul  
RT: 14.467 min Scan# 2539  
Delta R.T. 0.005 min  
Lab File: BN026906.D  
Acq: 15 Aug 2023 18:10

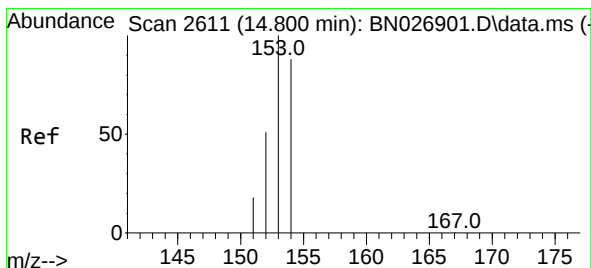
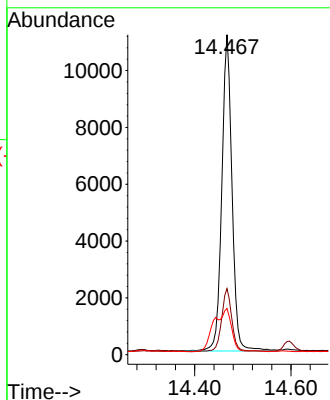
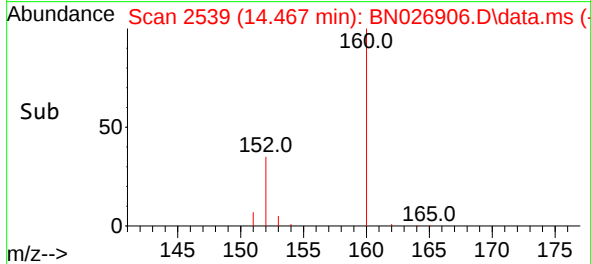
Instrument :  
BNA\_N  
ClientSampleId :  
A48H2



Tgt Ion:152 Resp: 16514  
Ion Ratio Lower Upper  
152 100  
151 20.6 15.9 23.9  
153 14.4 11.0 16.6

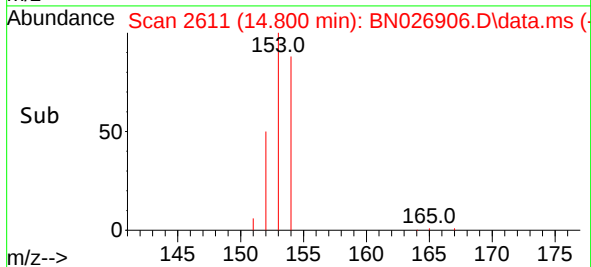
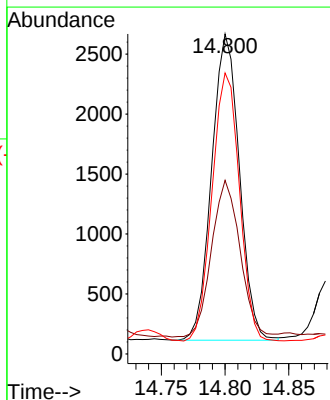
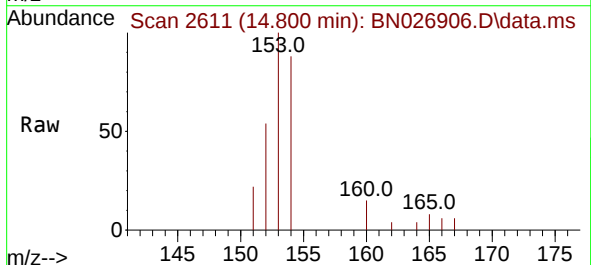
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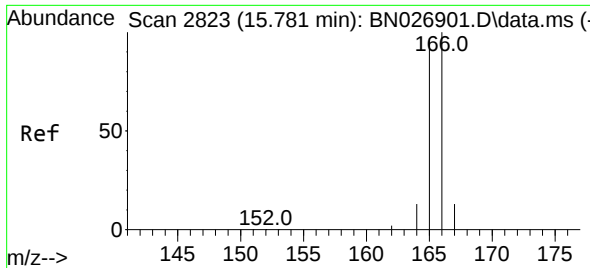
Reviewed By :Yogesh Patel 08/16/2023  
Supervised By :Sohil Jodhani 08/16/2023



#11  
Acenaphthene  
Concen: 0.029 ng/ul  
RT: 14.800 min Scan# 2611  
Delta R.T. 0.000 min  
Lab File: BN026906.D  
Acq: 15 Aug 2023 18:10

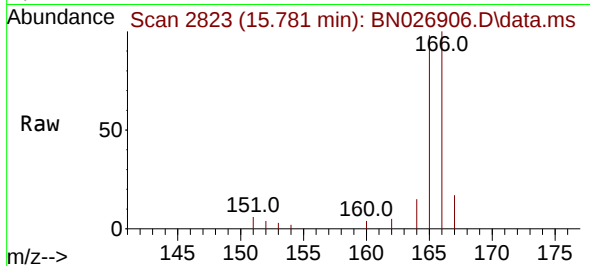
Tgt Ion:153 Resp: 3862  
Ion Ratio Lower Upper  
153 100  
152 54.3 41.1 61.7  
154 87.8 71.6 107.4





#12  
Fluorene  
Concen: 0.045 ng/u1  
RT: 15.781 min Scan# 2823  
Delta R.T. 0.000 min  
Lab File: BN026906.D  
Acq: 15 Aug 2023 18:10

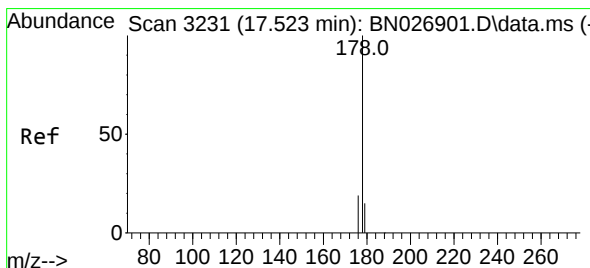
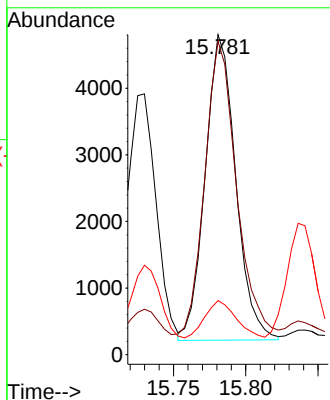
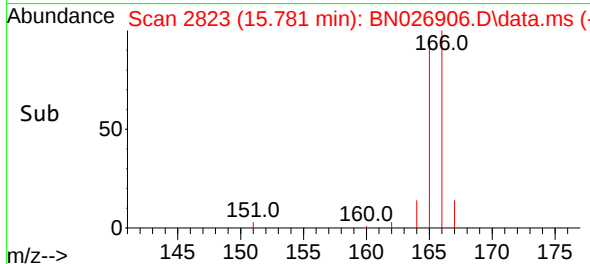
Instrument :  
BNA\_N  
ClientSampleId :  
A48H2



Tgt Ion:166 Resp: 6735  
Ion Ratio Lower Upper  
166 100  
165 97.9 79.1 118.7  
167 16.9 11.4 17.0

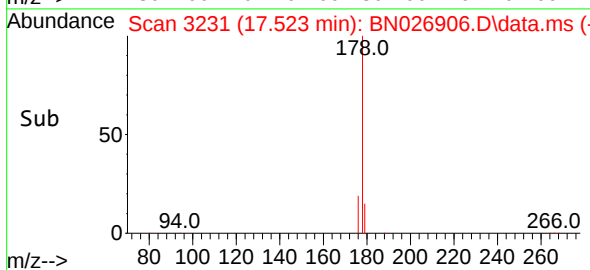
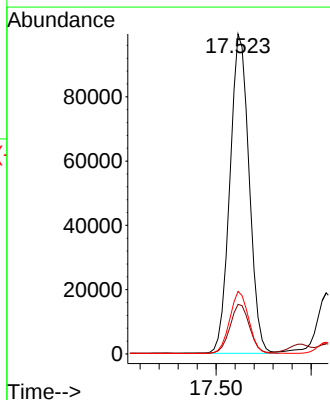
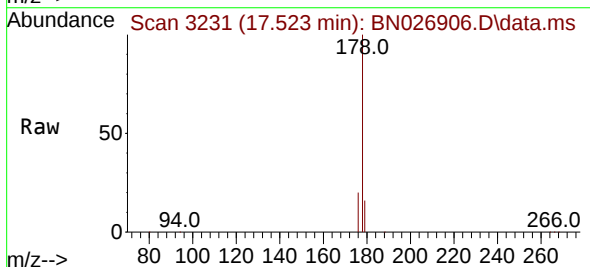
Manual Integrations  
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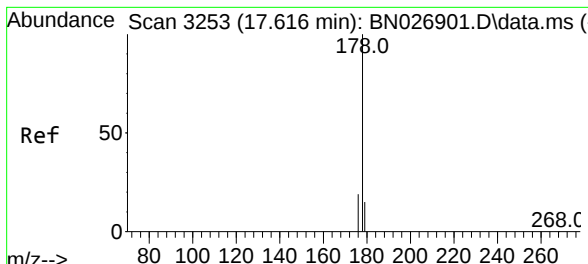
Reviewed By :Yogesh Patel 08/16/2023  
Supervised By :Sohil Jodhani 08/16/2023



#15  
Phenanthrene  
Concen: 0.558 ng/u1  
RT: 17.523 min Scan# 3231  
Delta R.T. 0.000 min  
Lab File: BN026906.D  
Acq: 15 Aug 2023 18:10

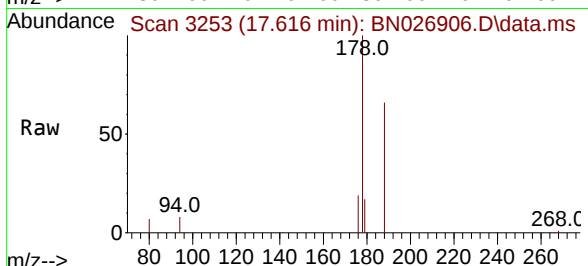
Tgt Ion:178 Resp: 139457  
Ion Ratio Lower Upper  
178 100  
179 15.5 12.6 18.8  
176 19.6 15.4 23.2





#16  
 Anthracene  
 Concen: 0.114 ng/ul  
 RT: 17.616 min Scan# 31  
 Delta R.T. 0.000 min  
 Lab File: BN026906.D  
 Acq: 15 Aug 2023 18:10

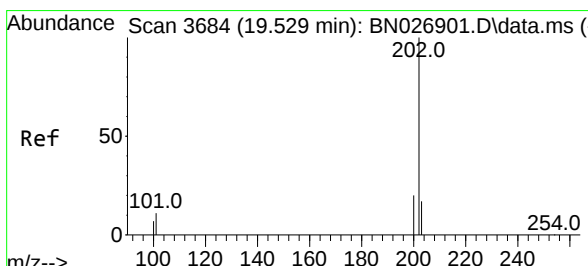
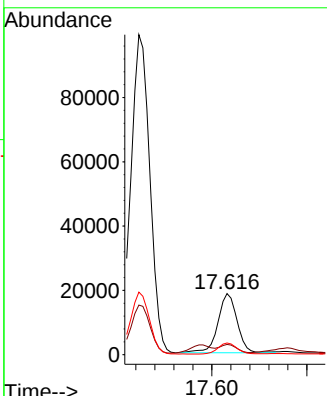
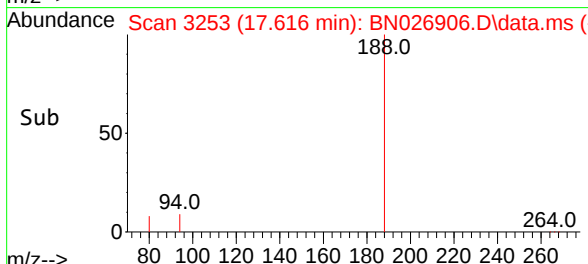
Instrument :  
 BNA\_N  
 ClientSampleId :  
 A48H2



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 25764 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 16.7  | 12.6  | 19.0  |
| 176       | 19.1  | 15.0  | 22.6  |

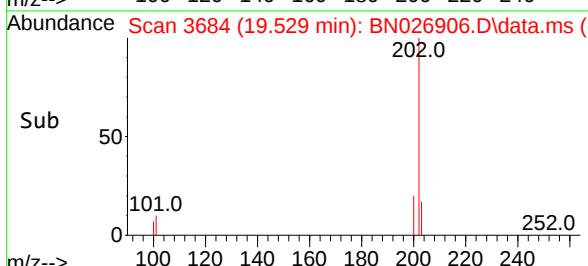
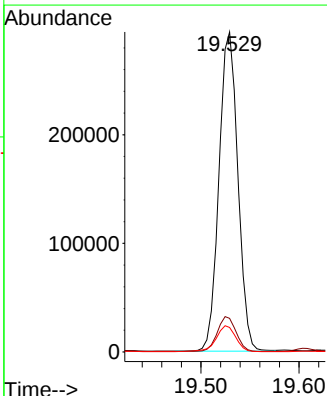
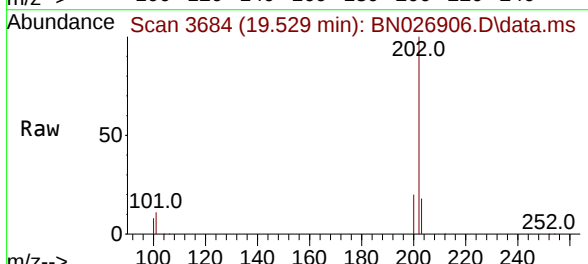
Manual Integrations  
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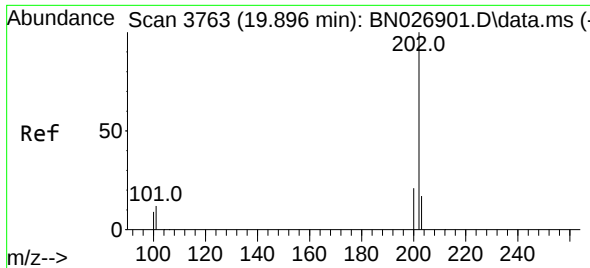
Reviewed By :Yogesh Patel 08/16/2023  
 Supervised By :Sohil Jodhani 08/16/2023



#19  
 Fluoranthene  
 Concen: 1.457 ng/ul  
 RT: 19.529 min Scan# 3684  
 Delta R.T. 0.000 min  
 Lab File: BN026906.D  
 Acq: 15 Aug 2023 18:10

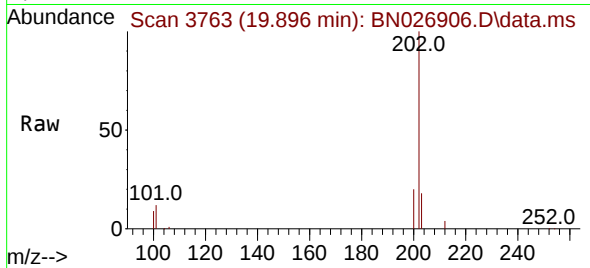
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 393702 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 10.5  | 8.3   | 12.5   |
| 100       | 7.6   | 6.2   | 9.2    |





#20  
Pyrene  
Concen: 1.172 ng/ul m  
RT: 19.896 min Scan# 3763  
Delta R.T. 0.000 min  
Lab File: BN026906.D  
Acq: 15 Aug 2023 18:10

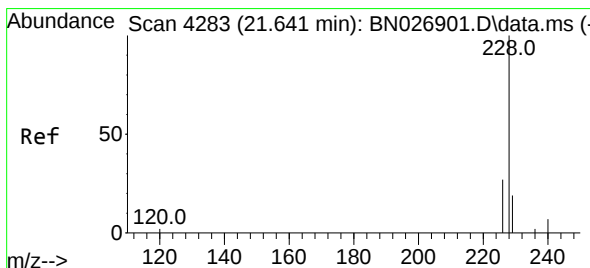
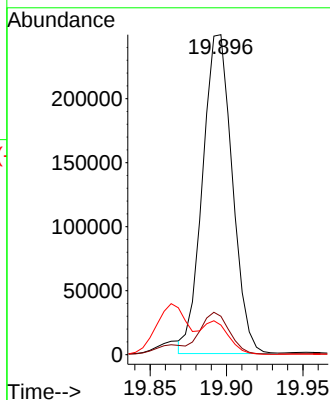
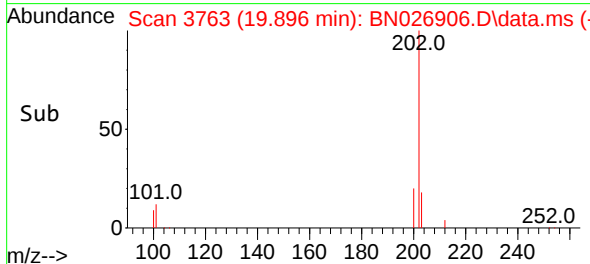
Instrument :  
BNA\_N  
ClientSampleId :  
A48H2



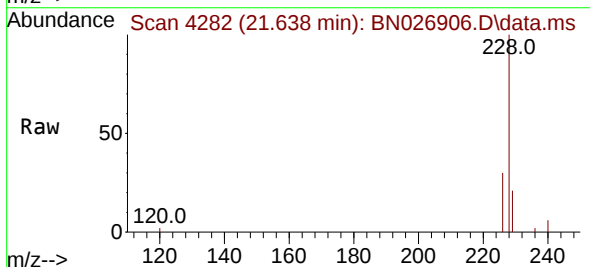
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Ion Ratio Lower Upper  
202 100  
101 12.0 10.7 16.1  
100 9.3 8.5 12.7

Manual Integrations  
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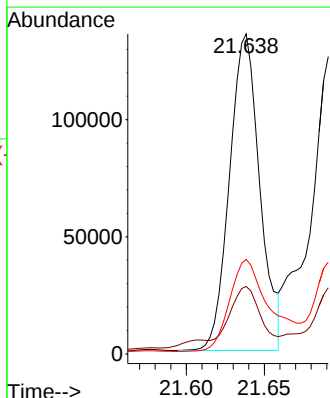
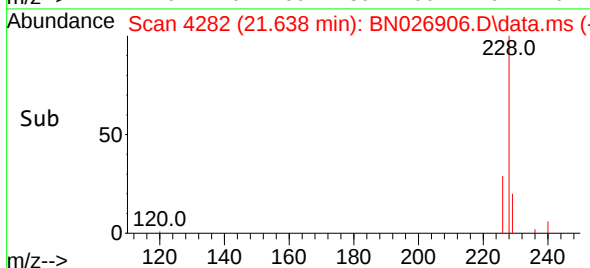
Reviewed By :Yogesh Patel 08/16/2023  
Supervised By :Sohil Jodhani 08/16/2023

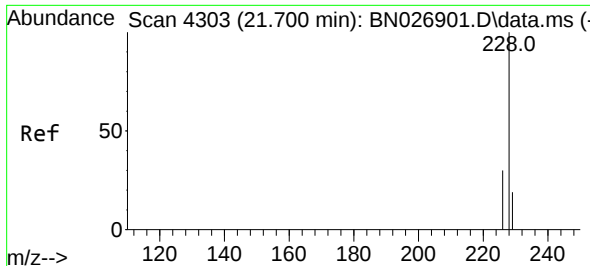


#21  
Benzo(a)anthracene  
Concen: 0.707 ng/ul  
RT: 21.638 min Scan# 4282  
Delta R.T. -0.003 min  
Lab File: BN026906.D  
Acq: 15 Aug 2023 18:10



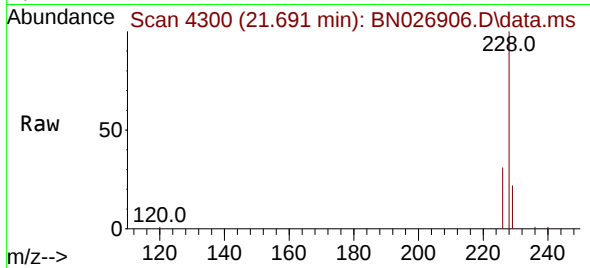
Tgt Ion:228 Resp: 182840  
Ion Ratio Lower Upper  
228 100  
229 21.1 16.0 24.0  
226 29.6 22.2 33.2





#22  
Chrysene  
Concen: 0.800 ng/ul  
RT: 21.691 min Scan# 4189  
Delta R.T. -0.009 min  
Lab File: BN026906.D  
Acq: 15 Aug 2023 18:10

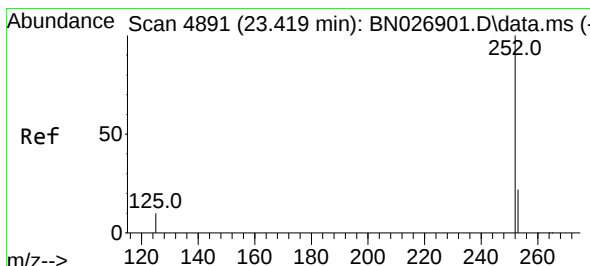
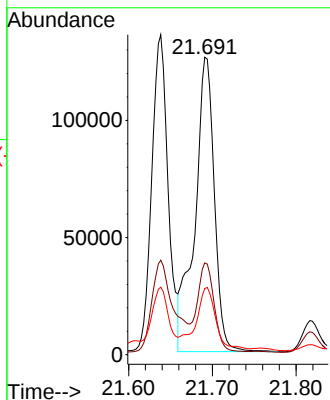
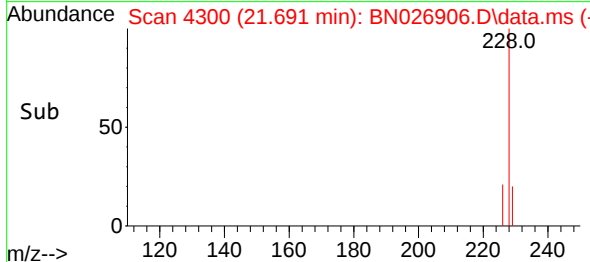
Instrument :  
BNA\_N  
ClientSampleId :  
A48H2



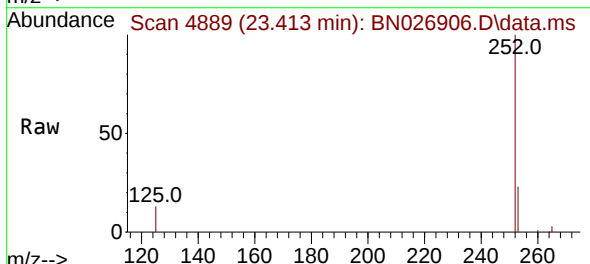
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Ion Ratio Lower Upper  
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226 30.9 24.6 36.8  
229 22.3 15.8 23.6

Manual Integrations  
APPROVED

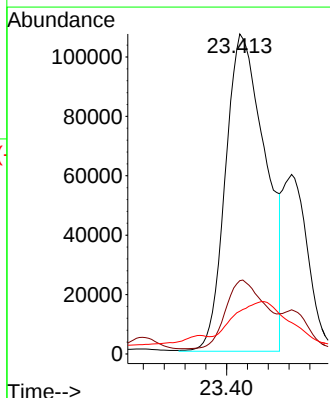
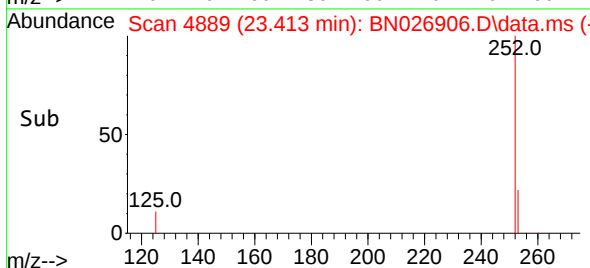
Reviewed By :Yogesh Patel 08/16/2023  
Supervised By :Sohil Jodhani 08/16/2023

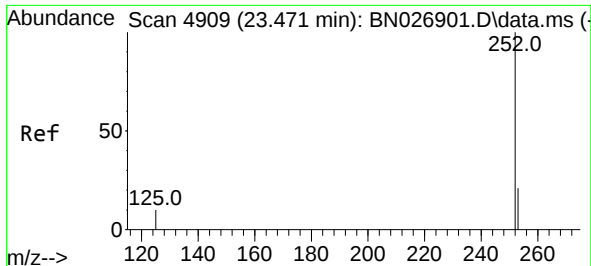


#24  
Benzo(b)fluoranthene  
Concen: 1.089 ng/ul m  
RT: 23.413 min Scan# 4889  
Delta R.T. -0.009 min  
Lab File: BN026906.D  
Acq: 15 Aug 2023 18:10



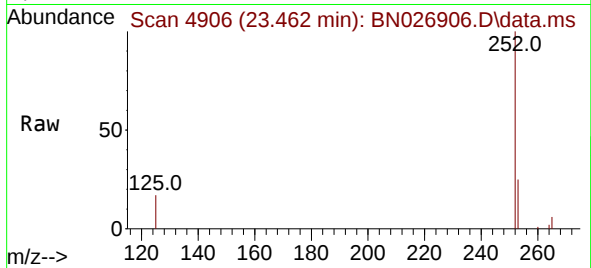
Tgt Ion:252 Resp: 285526  
Ion Ratio Lower Upper  
252 100  
253 22.9 0.0 46.8  
125 13.4 0.0 25.2





#25  
Benzo(k)fluoranthene  
Concen: 0.384 ng/ul m  
RT: 23.462 min Scan# 4909  
Delta R.T. -0.012 min  
Lab File: BN026906.D  
Acq: 15 Aug 2023 18:10

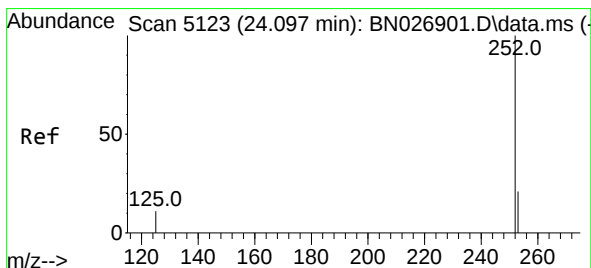
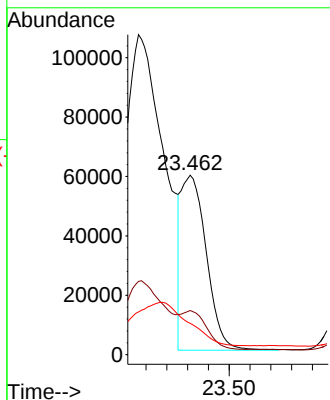
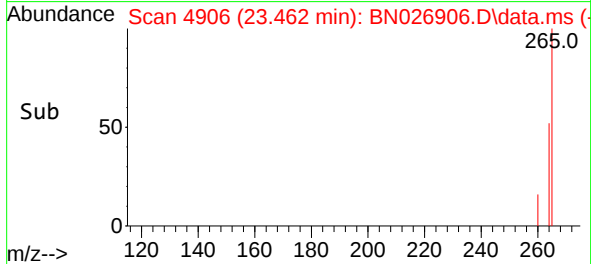
Instrument :  
BNA\_N  
ClientSampleId :  
A48H2



Tgt Ion:252 Resp: 99214  
Ion Ratio Lower Upper  
252 100  
253 24.6 18.2 27.4  
125 17.5 9.9 14.9

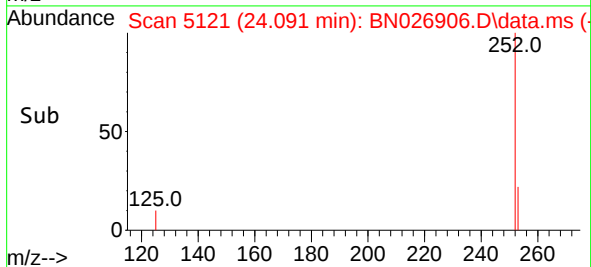
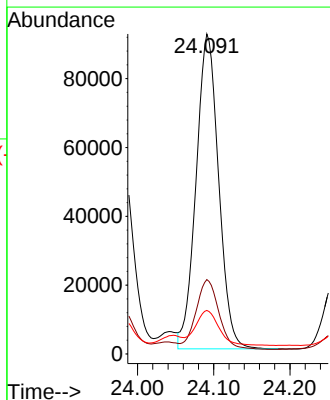
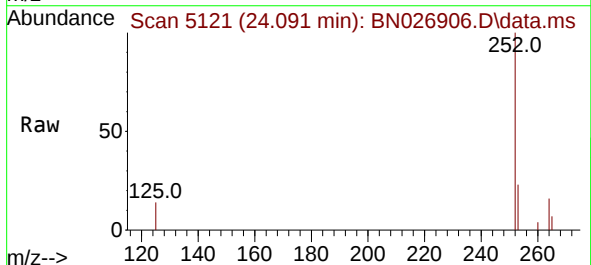
Manual Integrations  
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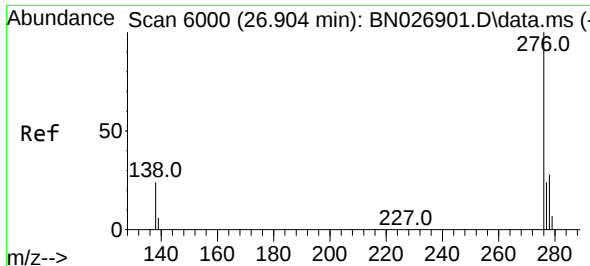
Reviewed By :Yogesh Patel 08/16/2023  
Supervised By :Sohil Jodhani 08/16/2023



#26  
Benzo(a)pyrene  
Concen: 0.794 ng/ul  
RT: 24.091 min Scan# 5121  
Delta R.T. -0.009 min  
Lab File: BN026906.D  
Acq: 15 Aug 2023 18:10

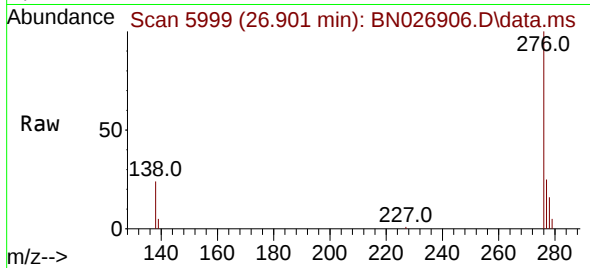
Tgt Ion:252 Resp: 187846  
Ion Ratio Lower Upper  
252 100  
253 23.2 19.0 28.6  
125 13.6 11.4 17.0





#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.400 ng/ul  
RT: 26.901 min Scan# 5999  
Delta R.T. -0.007 min  
Lab File: BN026906.D  
Acq: 15 Aug 2023 18:10

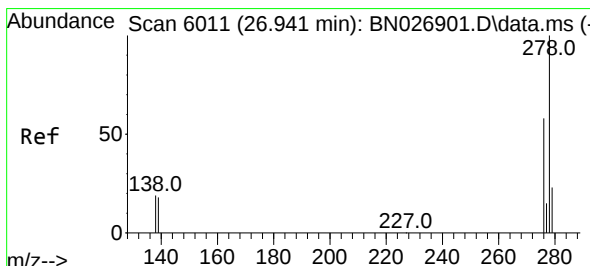
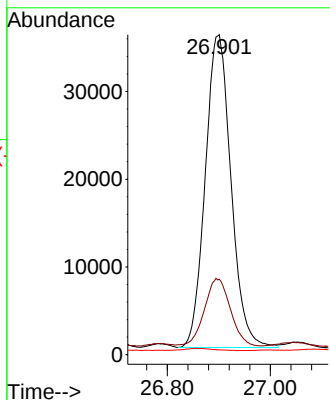
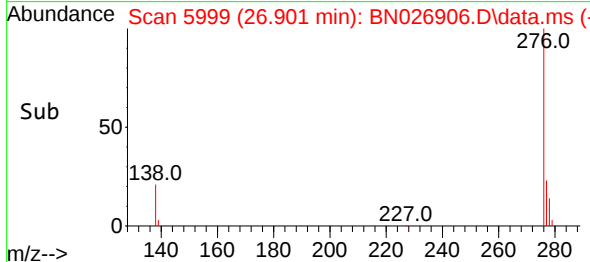
Instrument :  
BNA\_N  
ClientSampleId :  
A48H2



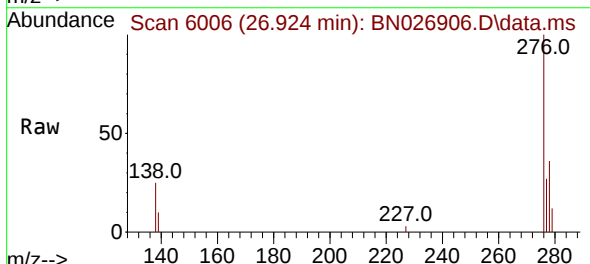
Tgt Ion:276 Resp: 12381  
Ion Ratio Lower Upper  
276 100  
138 21.6 21.6 32.4  
227 0.0 0.0 0.0

Manual Integrations  
APPROVED

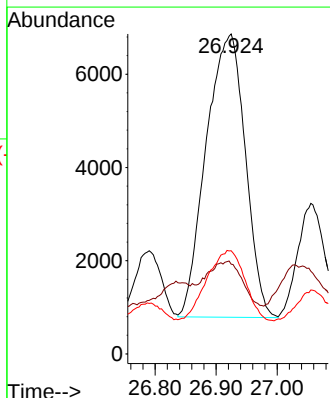
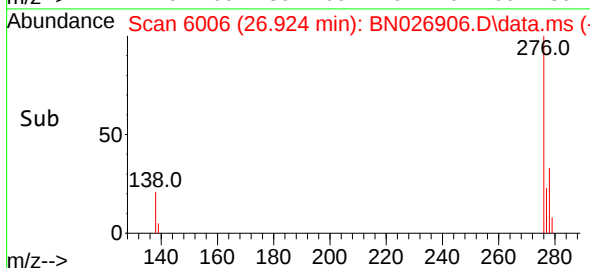
Reviewed By :Yogesh Patel 08/16/2023  
Supervised By :Sohil Jodhani 08/16/2023

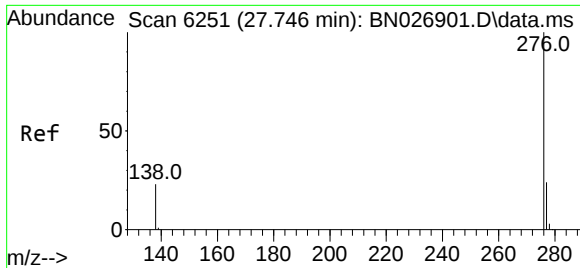


#28  
Dibenzo(a,h)anthracene  
Concen: 0.110 ng/ul  
RT: 26.924 min Scan# 6006  
Delta R.T. -0.013 min  
Lab File: BN026906.D  
Acq: 15 Aug 2023 18:10



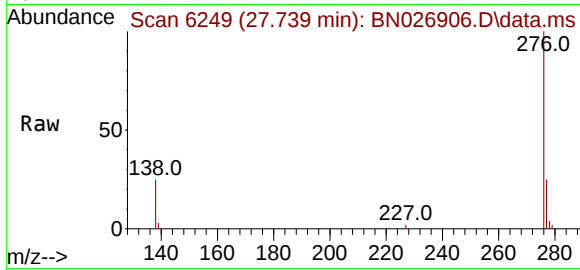
Tgt Ion:278 Resp: 27081  
Ion Ratio Lower Upper  
278 100  
139 28.1 15.7 23.5#  
279 32.3 20.2 30.4#





#29  
 Benzo(g,h,i)perylene  
 Concen: 0.464 ng/ul  
 RT: 27.739 min Scan# 61  
 Delta R.T. -0.007 min  
 Lab File: BN026906.D  
 Acq: 15 Aug 2023 18:10

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A48H2



Tgt Ion:276 Resp: 11958  
 Ion Ratio Lower Upper  
 276 100  
 138 24.8 19.3 28.9  
 277 25.2 19.8 29.8

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 08/16/2023  
 Supervised By :Sohil Jodhani 08/16/2023

