

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052424\  
 Data File : BN031655.D  
 Acq On : 24 May 2024 11:02  
 Operator : MA/JU  
 Sample : P2548-05  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BH5Y2

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 05/25/2024  
 Supervised By :mohammad ahmed 05/27/2024

Quant Time: May 24 22:55:38 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN052124.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue May 21 23:42:49 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.687  | 152  | 526664   | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.469 | 136  | 2182413  | 20.000 | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.328 | 164  | 1163079  | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.069 | 188  | 1859220  | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.304 | 240  | 1417124  | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 24.245 | 264  | 1748536  | 20.000 | ng/u1  | 0.01     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.199  | 96   | 45191    | 3.401  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.599  | 84   | 595490   | 16.060 | ng/u1  | 0.00     |
| 7) Phenol-d5                  | 6.852  | 99   | 973760   | 22.461 | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.028  | 67   | 559364   | 21.512 | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.222  | 132  | 739659   | 22.141 | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.387  | 113  | 757168   | 22.560 | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 8.840  | 128  | 374107   | 22.650 | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.557  | 143  | 362081   | 22.957 | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.087 | 165  | 705839   | 22.888 | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.610 | 131  | 991780   | 22.310 | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.739 | 166  | 1983630  | 27.063 | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 14.016 | 160  | 2366173  | 25.756 | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.522 | 143  | 253128   | 18.252 | ng/u1  | 0.00     |
| 60) Fluorene-d10              | 15.322 | 176  | 1622392  | 25.541 | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.433 | 200  | 127618   | 15.876 | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.169 | 188  | 2057568  | 26.143 | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.469 | 212  | 2028942  | 22.826 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 24.039 | 264  | 2200675  | 26.738 | ng/u1  | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 52) Acenaphthene              | 14.386 | 153  | 95601    | 1.391  | ng/u1  | 92       |
| 61) Fluorene                  | 15.375 | 166  | 102237   | 1.423  | ng/u1  | 98       |
| 72) Phenanthrene              | 17.110 | 178  | 1629014  | 17.265 | ng/u1  | 99       |
| 74) Anthracene                | 17.204 | 178  | 362034   | 3.824  | ng/u1  | 98       |
| 77) Carbazole                 | 17.475 | 167  | 141971   | 1.757  | ng/u1  | 100      |
| 80) Fluoranthene              | 19.127 | 202  | 2150734  | 19.575 | ng/u1  | 98       |
| 82) Pyrene                    | 19.492 | 202  | 1824066  | 16.188 | ng/u1  | 96       |
| 85) Benzo(a)anthracene        | 21.286 | 228  | 1007817  | 10.576 | ng/u1  | 98       |
| 87) Chrysene                  | 21.345 | 228  | 978078   | 11.111 | ng/u1  | 98       |
| 90) Benzo(b)fluoranthene      | 23.310 | 252  | 1357296  | 13.302 | ng/u1  | 99       |
| 91) Benzo(k)fluoranthene      | 23.368 | 252  | 388388   | 3.734  | ng/u1  | 96       |
| 93) Benzo(a)pyrene            | 24.098 | 252  | 933137   | 9.520  | ng/u1  | 97       |
| 94) Indeno(1,2,3-cd)pyrene    | 27.533 | 276  | 620811   | 5.277  | ng/u1  | 96       |
| 95) Dibenzo(a,h)anthracene    | 27.586 | 278  | 167464m  | 1.729  | ng/u1  |          |
| 96) Benzo(g,h,i)perylene      | 28.550 | 276  | 577094   | 5.938  | ng/u1  | 97       |
| -----                         |        |      |          |        |        |          |

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

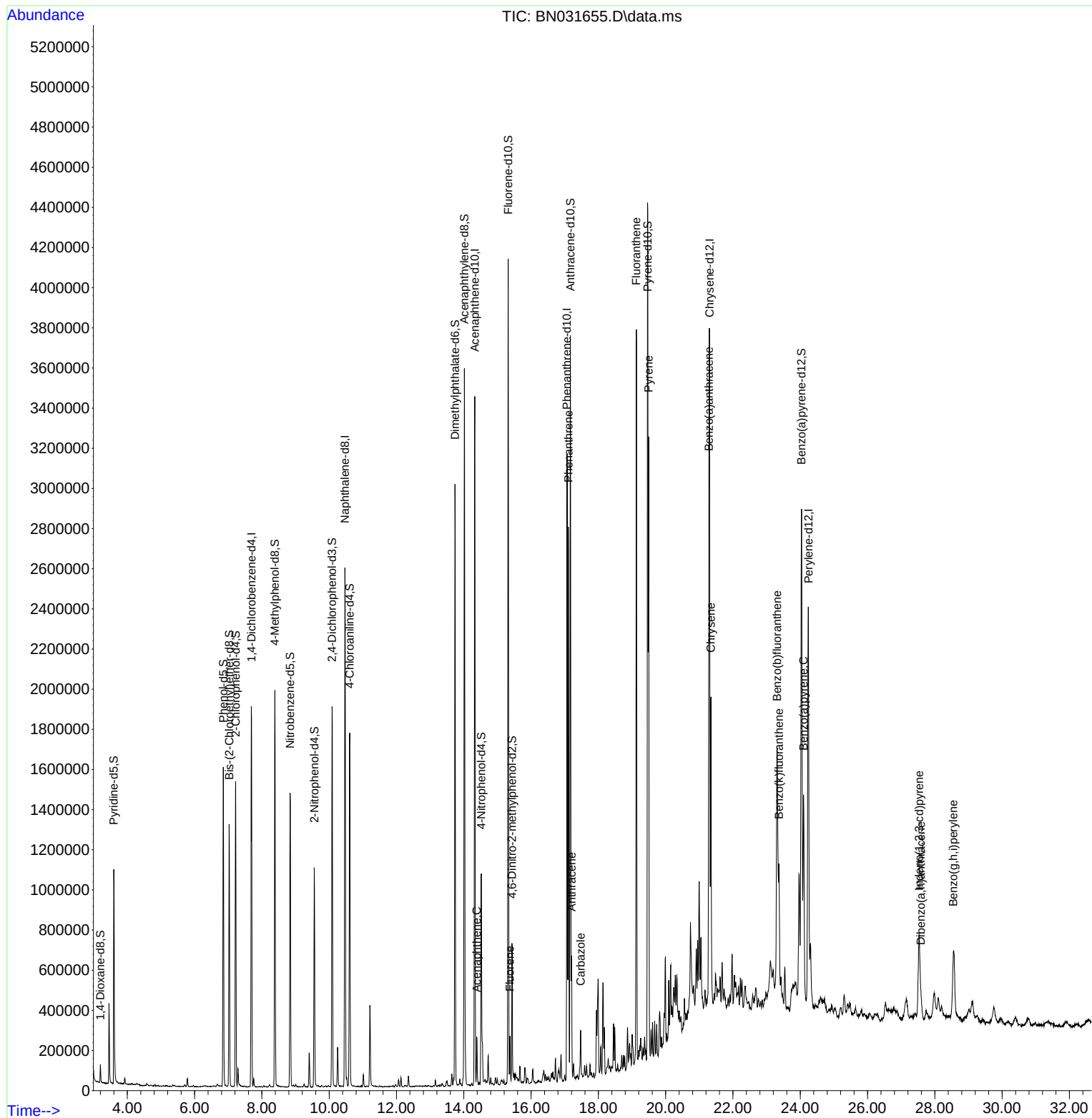
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052424\  
Data File : BN031655.D  
Acq On : 24 May 2024 11:02  
Operator : MA/JU  
Sample : P2548-05  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

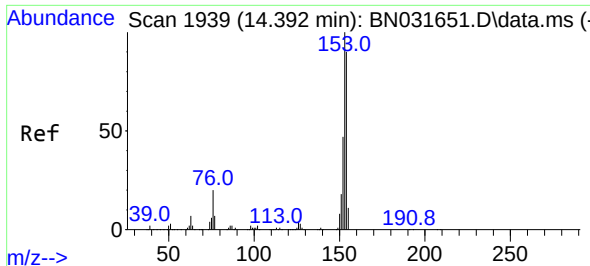
Instrument :  
BNA\_N  
ClientSampleId :  
BH5Y2

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 05/25/2024  
Supervised By :mohammad ahmed 05/27/2024

Quant Time: May 24 22:55:38 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN052124.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue May 21 23:42:49 2024  
Response via : Initial Calibration





#52  
Acenaphthene  
Concen: 1.391 ng/ul  
RT: 14.386 min Scan# 1939  
Delta R.T. -0.006 min  
Lab File: BN031655.D  
Acq: 24 May 2024 11:02

Instrument :

BNA\_N

ClientSampleId :

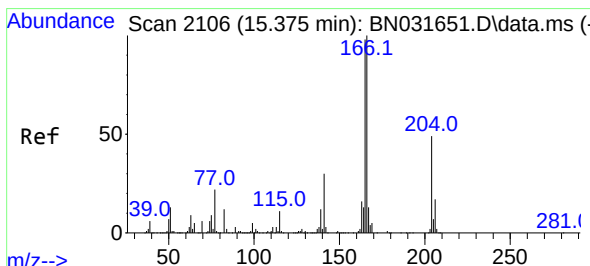
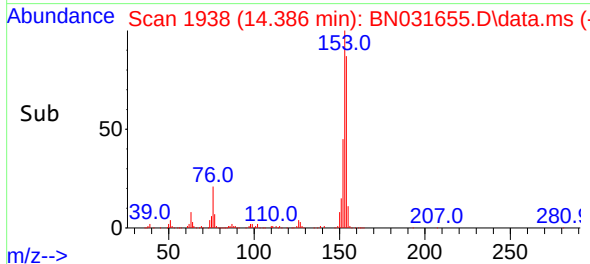
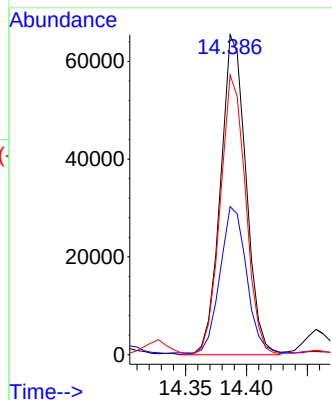
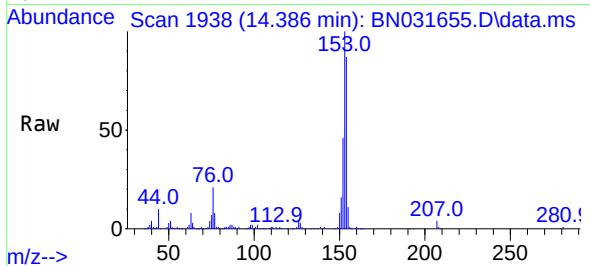
BH5Y2

Tgt Ion:153 Resp: 9560  
Ion Ratio Lower Upper  
153 100  
152 46.3 40.5 60.7  
154 87.4 76.6 114.8

Manual Integrations

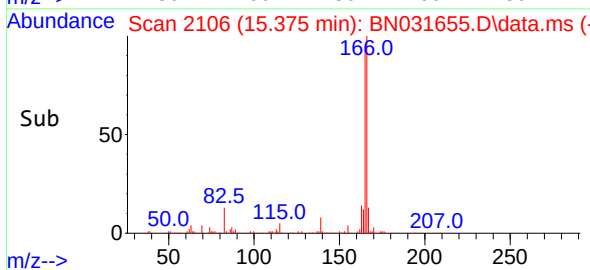
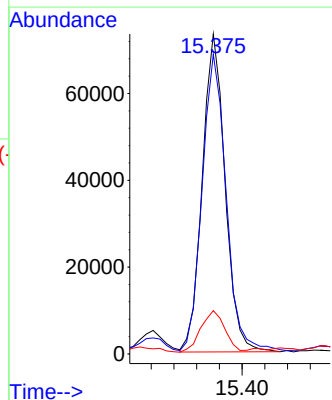
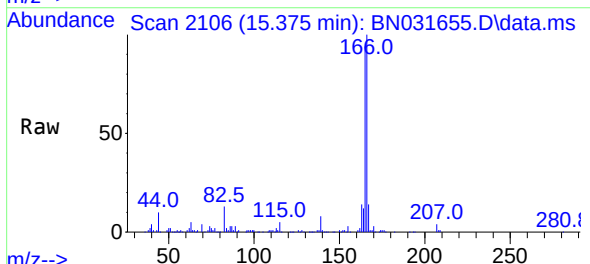
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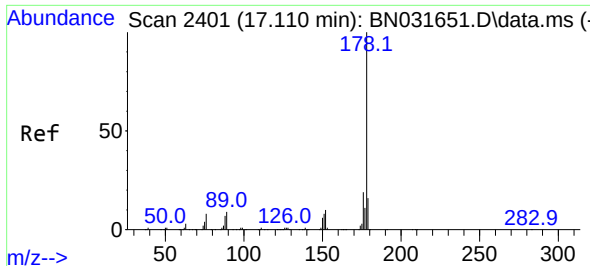
Reviewed By :Yogesh Patel 05/25/2024  
Supervised By :mohammad ahmed 05/27/2024



#61  
Fluorene  
Concen: 1.423 ng/ul  
RT: 15.375 min Scan# 2106  
Delta R.T. -0.006 min  
Lab File: BN031655.D  
Acq: 24 May 2024 11:02

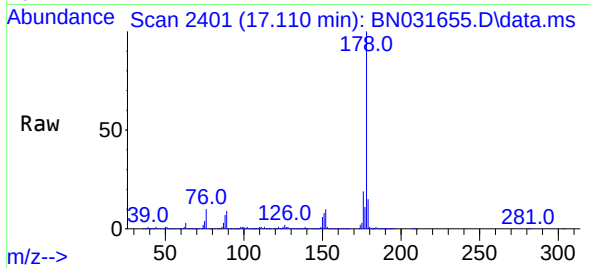
Tgt Ion:166 Resp: 102237  
Ion Ratio Lower Upper  
166 100  
165 93.7 77.0 115.6  
167 13.5 10.9 16.3





#72  
Phenanthrene  
Concen: 17.265 ng/u1  
RT: 17.110 min Scan# 2401  
Delta R.T. -0.006 min  
Lab File: BN031655.D  
Acq: 24 May 2024 11:02

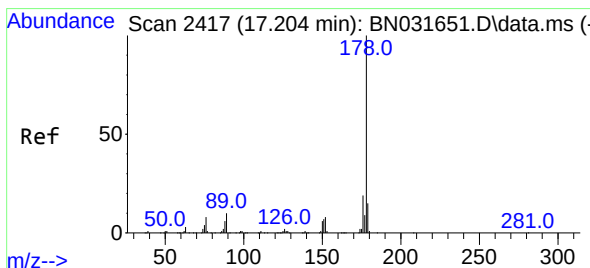
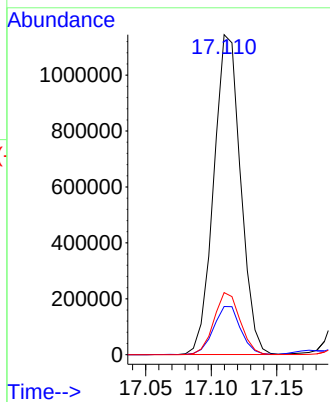
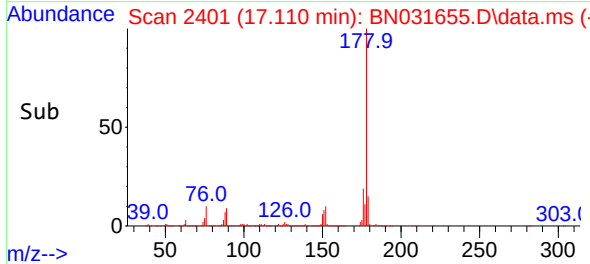
Instrument :  
BNA\_N  
ClientSampleId :  
BH5Y2



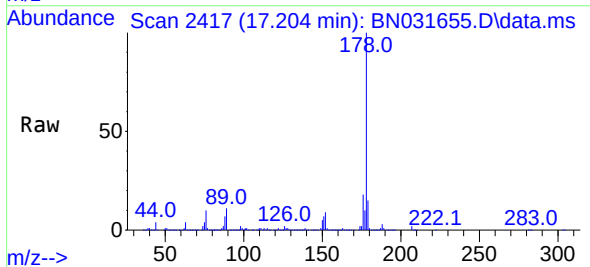
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Ion Ratio Lower Upper  
178 100  
179 15.0 12.6 18.8  
176 19.4 15.2 22.8

Manual Integrations  
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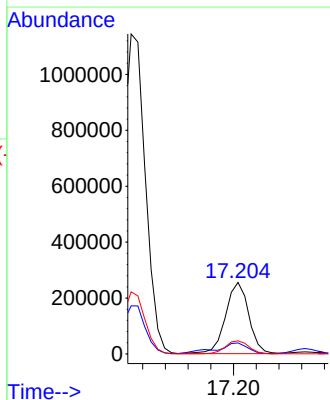
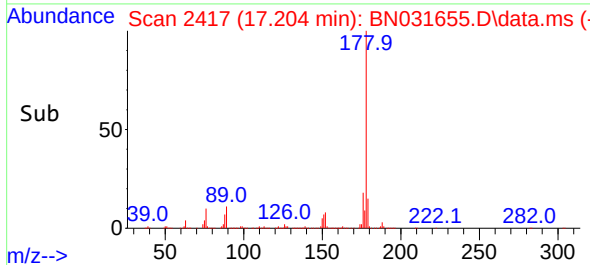
Reviewed By :Yogesh Patel 05/25/2024  
Supervised By :mohammad ahmed 05/27/2024

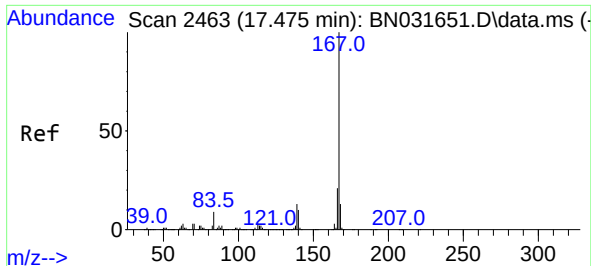


#74  
Anthracene  
Concen: 3.824 ng/u1  
RT: 17.204 min Scan# 2417  
Delta R.T. -0.000 min  
Lab File: BN031655.D  
Acq: 24 May 2024 11:02



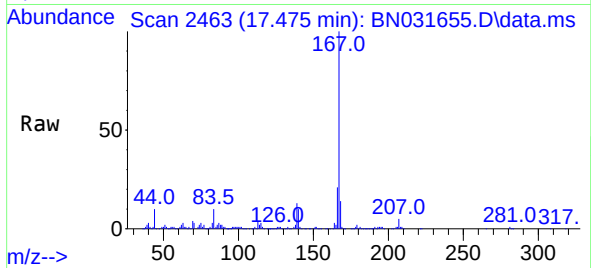
Tgt Ion:178 Resp: 362034  
Ion Ratio Lower Upper  
178 100  
179 15.4 11.9 17.9  
176 18.3 15.4 23.2





#77  
 Carbazole  
 Concen: 1.757 ng/ul  
 RT: 17.475 min Scan# 2463  
 Delta R.T. -0.000 min  
 Lab File: BN031655.D  
 Acq: 24 May 2024 11:02

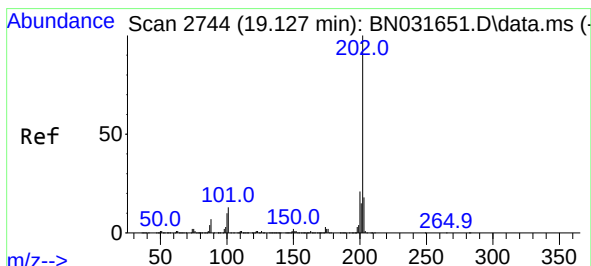
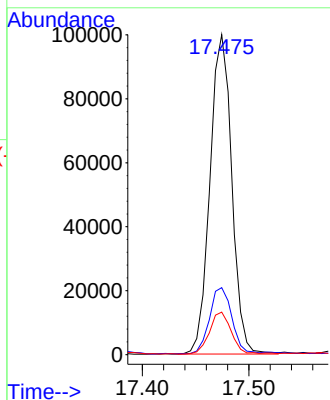
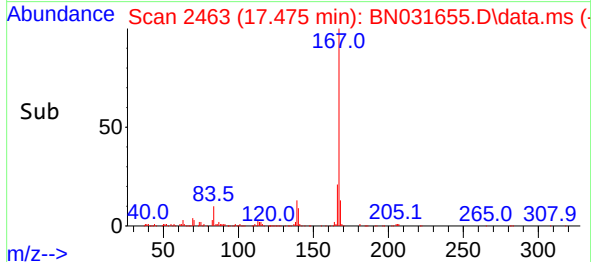
Instrument :  
 BNA\_N  
 ClientSampleId :  
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Tgt Ion:167 Resp: 14197  
 Ion Ratio Lower Upper  
 167 100  
 166 20.9 16.7 25.1  
 139 13.3 10.5 15.7

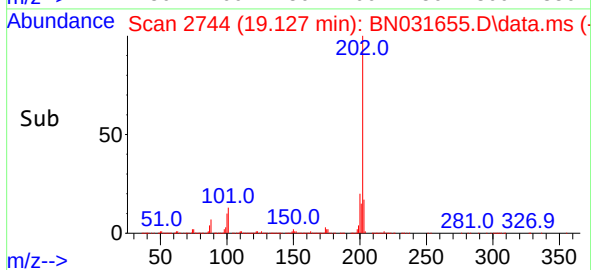
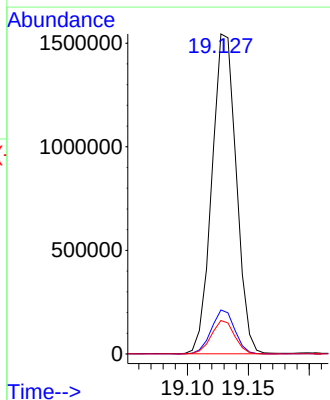
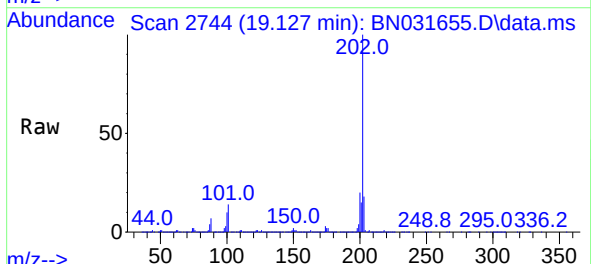
Manual Integrations  
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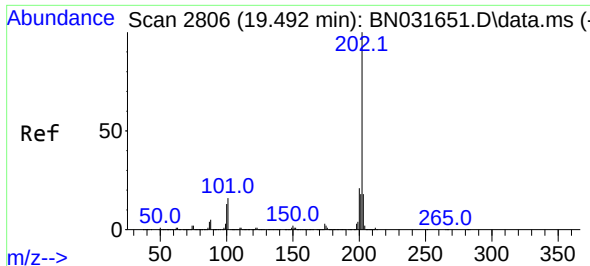
Reviewed By :Yogesh Patel 05/25/2024  
 Supervised By :mohammad ahmed 05/27/2024



#80  
 Fluoranthene  
 Concen: 19.575 ng/ul  
 RT: 19.127 min Scan# 2744  
 Delta R.T. -0.006 min  
 Lab File: BN031655.D  
 Acq: 24 May 2024 11:02

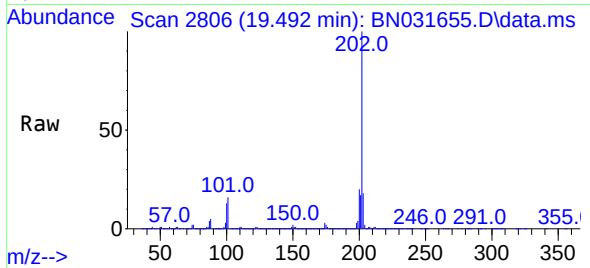
Tgt Ion:202 Resp: 2150734  
 Ion Ratio Lower Upper  
 202 100  
 101 13.7 10.1 15.1  
 100 10.5 8.0 12.0





#82  
Pyrene  
Concen: 16.188 ng/ul  
RT: 19.492 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: BN031655.D  
Acq: 24 May 2024 11:02

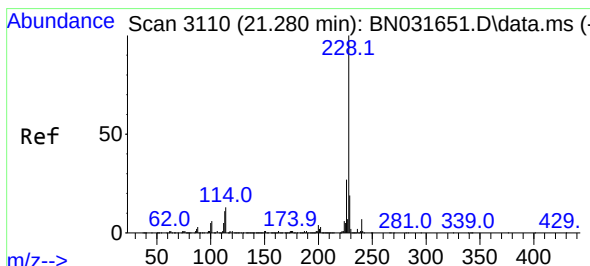
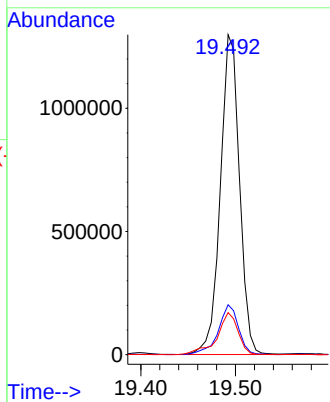
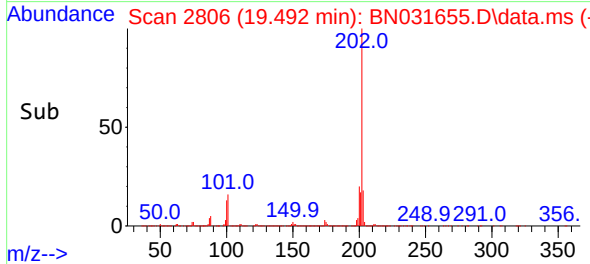
Instrument :  
BNA\_N  
ClientSampleId :  
BH5Y2



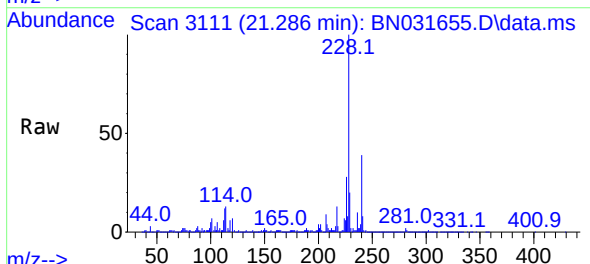
Tgt Ion:202 Resp: 182406  
Ion Ratio Lower Upper  
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100 13.2 9.3 13.9

Manual Integrations  
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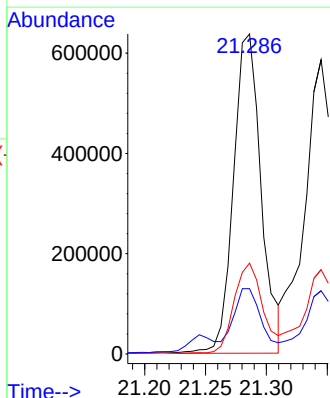
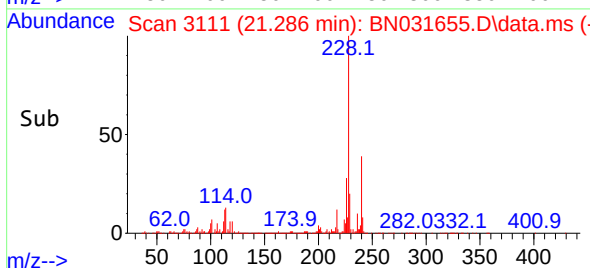
Reviewed By :Yogesh Patel 05/25/2024  
Supervised By :mohammad ahmed 05/27/2024

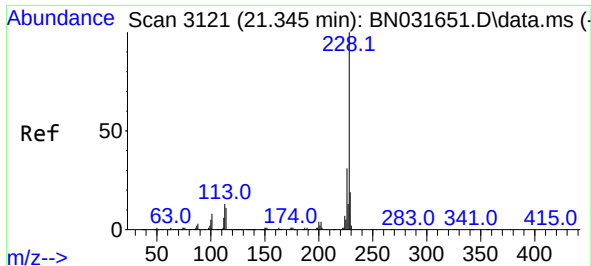


#85  
Benzo(a)anthracene  
Concen: 10.576 ng/ul  
RT: 21.286 min Scan# 3111  
Delta R.T. -0.000 min  
Lab File: BN031655.D  
Acq: 24 May 2024 11:02



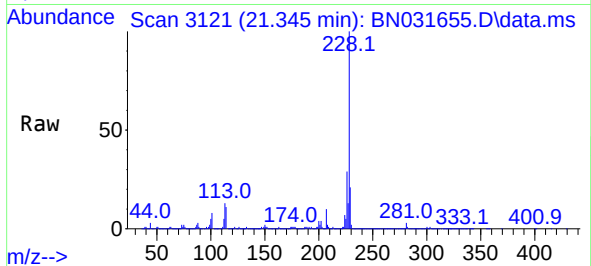
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Ion Ratio Lower Upper  
228 100  
229 20.4 15.7 23.5  
226 28.4 21.9 32.9





#87  
Chrysene  
Concen: 11.111 ng/u1  
RT: 21.345 min Scan# 3121  
Delta R.T. -0.000 min  
Lab File: BN031655.D  
Acq: 24 May 2024 11:02

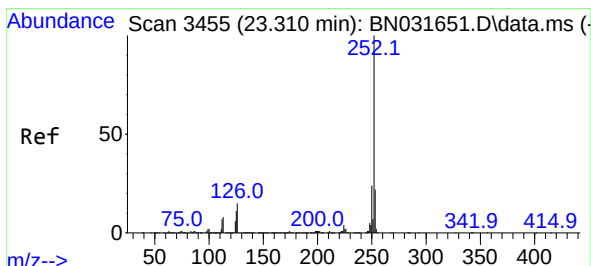
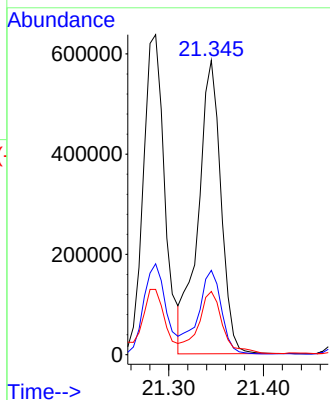
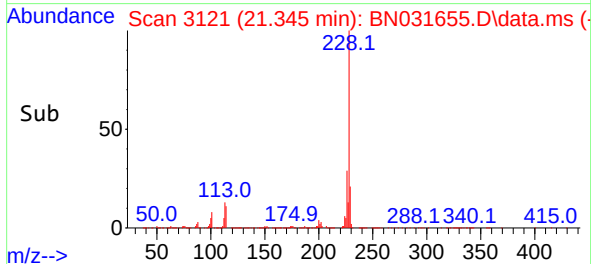
Instrument :  
BNA\_N  
ClientSampleId :  
BH5Y2



Tgt Ion:228 Resp: 978078  
Ion Ratio Lower Upper  
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229 21.5 15.2 22.8

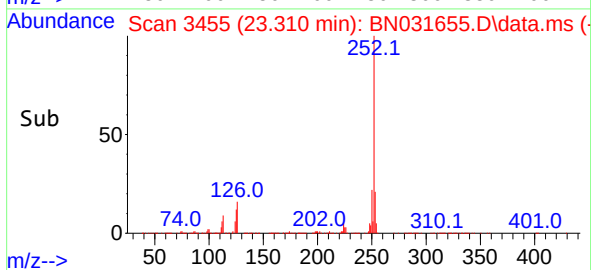
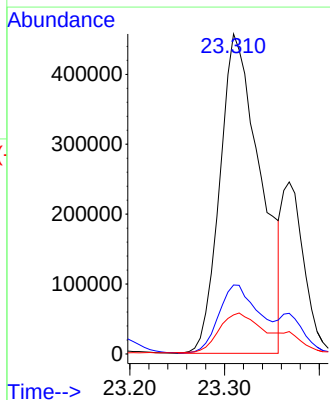
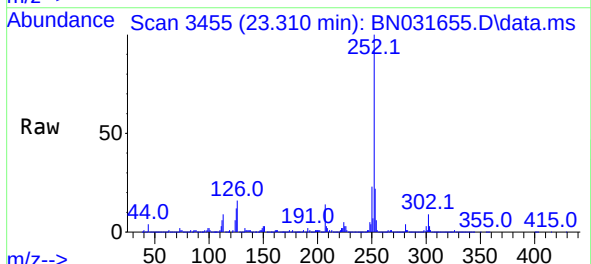
Manual Integrations  
APPROVED

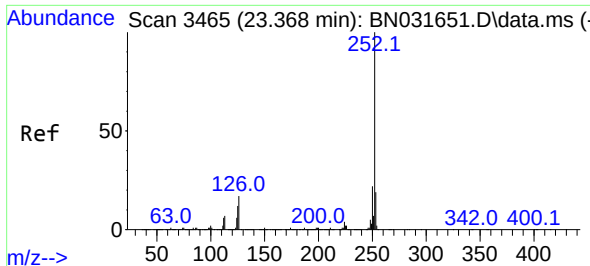
Reviewed By :Yogesh Patel 05/25/2024  
Supervised By :mohammad ahmed 05/27/2024



#90  
Benzo(b)fluoranthene  
Concen: 13.302 ng/u1  
RT: 23.310 min Scan# 3455  
Delta R.T. -0.000 min  
Lab File: BN031655.D  
Acq: 24 May 2024 11:02

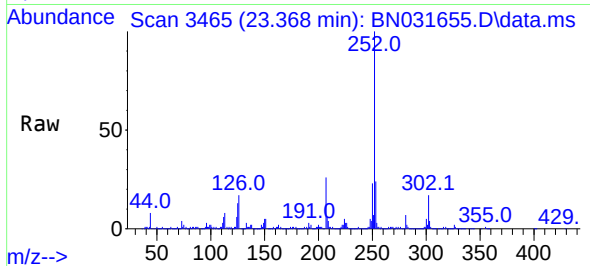
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Ion Ratio Lower Upper  
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253 21.6 16.8 25.2  
125 12.2 9.3 13.9





#91  
Benzo(k)fluoranthene  
Concen: 3.734 ng/u1  
RT: 23.368 min Scan# 3465  
Delta R.T. -0.000 min  
Lab File: BN031655.D  
Acq: 24 May 2024 11:02

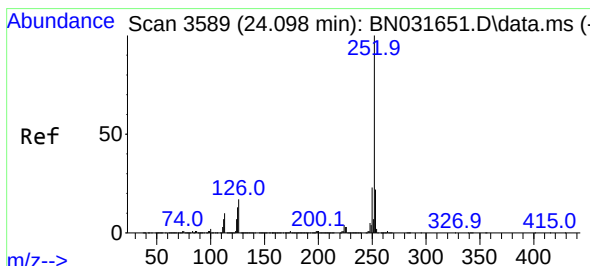
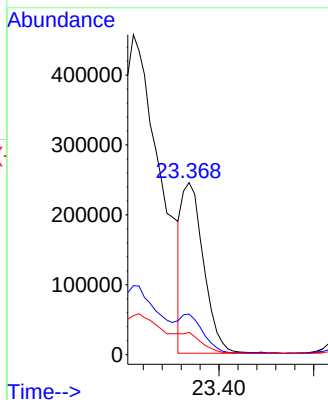
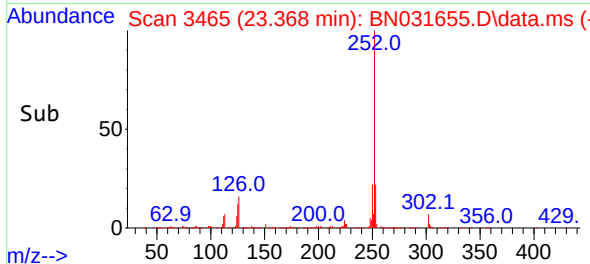
Instrument :  
BNA\_N  
ClientSampleId :  
BH5Y2



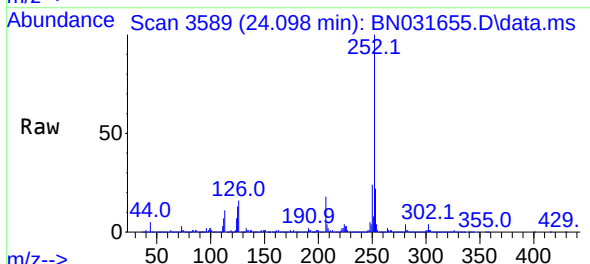
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125 13.0 9.3 13.9

Manual Integrations  
APPROVED

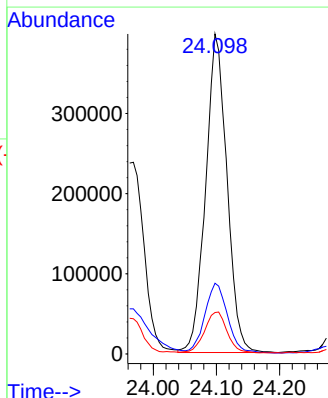
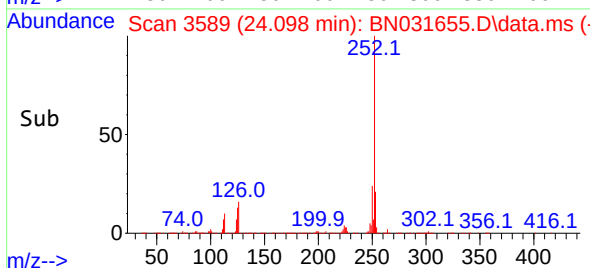
Reviewed By :Yogesh Patel 05/25/2024  
Supervised By :mohammad ahmed 05/27/2024



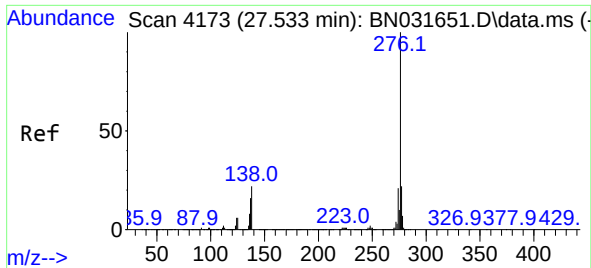
#93  
Benzo(a)pyrene  
Concen: 9.520 ng/u1  
RT: 24.098 min Scan# 3589  
Delta R.T. -0.006 min  
Lab File: BN031655.D  
Acq: 24 May 2024 11:02



Tgt Ion:252 Resp: 933137  
Ion Ratio Lower Upper  
252 100  
253 22.1 16.6 24.8  
125 12.9 9.8 14.8

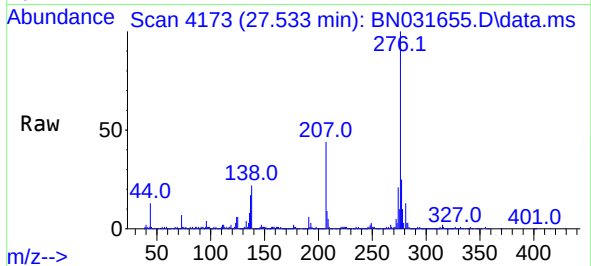






#94  
Indeno(1,2,3-cd)pyrene  
Concen: 5.277 ng/ul  
RT: 27.533 min Scan# 4173  
Delta R.T. -0.000 min  
Lab File: BN031655.D  
Acq: 24 May 2024 11:02

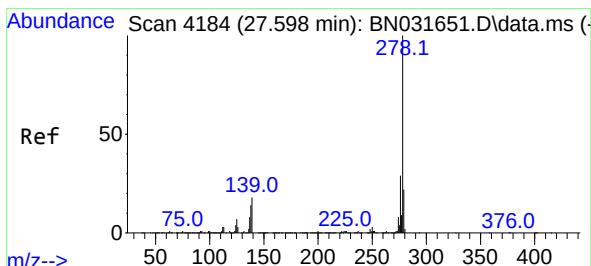
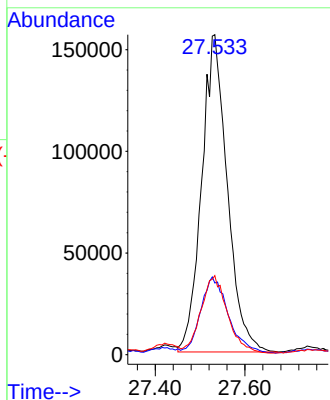
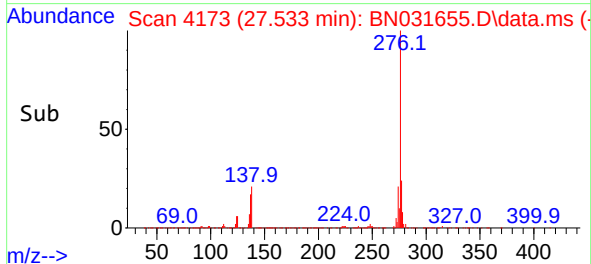
Instrument :  
BNA\_N  
ClientSampleId :  
BH5Y2



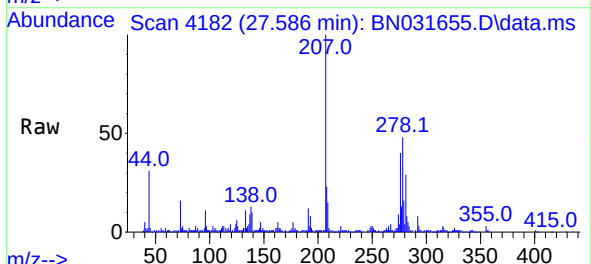
Tgt Ion:276 Resp: 62081  
Ion Ratio Lower Upper  
276 100  
138 22.4 19.8 29.6  
277 24.7 18.2 27.4

Manual Integrations  
APPROVED

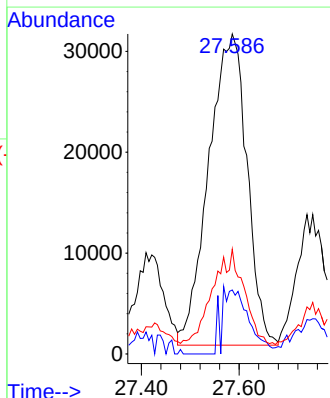
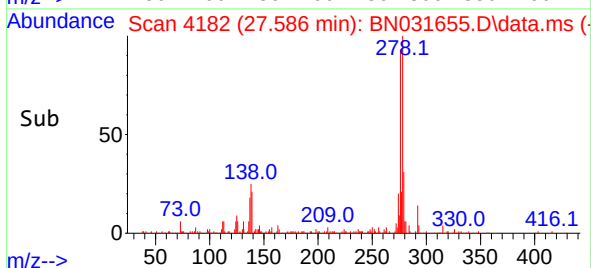
Reviewed By :Yogesh Patel 05/25/2024  
Supervised By :mohammad ahmed 05/27/2024

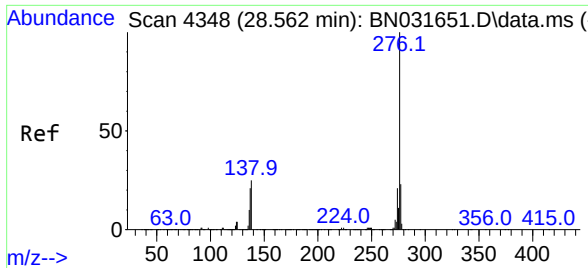


#95  
Dibenzo(a,h)anthracene  
Concen: 1.729 ng/ul m  
RT: 27.586 min Scan# 4182  
Delta R.T. -0.006 min  
Lab File: BN031655.D  
Acq: 24 May 2024 11:02



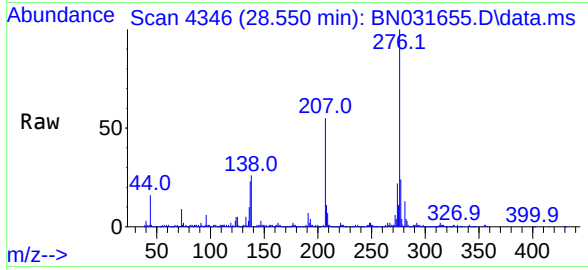
Tgt Ion:278 Resp: 167464  
Ion Ratio Lower Upper  
278 100  
139 20.0 15.2 22.8  
279 32.7 18.4 27.6#





#96  
Benzo(g,h,i)perylene  
Concen: 5.938 ng/ul  
RT: 28.550 min Scan# 41  
Delta R.T. -0.006 min  
Lab File: BN031655.D  
Acq: 24 May 2024 11:02

Instrument :  
BNA\_N  
ClientSampleId :  
BH5Y2



Tgt Ion:276 Resp: 577094  
Ion Ratio Lower Upper  
276 100  
138 25.6 19.5 29.3  
277 23.6 17.6 26.4

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 05/25/2024  
Supervised By :mohammad ahmed 05/27/2024

