

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN061224\  
 Data File : BN031926.D  
 Acq On : 12 Jun 2024 01:33  
 Operator : MA/JU  
 Sample : P2659-20  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BHC41

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 06/12/2024  
 Supervised By :mohammad ahmed 06/14/2024

Quant Time: Jun 12 02:03:42 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN052924.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Jun 11 22:28:10 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.657  | 152  | 293334   | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.440 | 136  | 1334530  | 20.000 | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.304 | 164  | 883872   | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.057 | 188  | 1819960  | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.292 | 240  | 1206127  | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 24.215 | 264  | 1165868  | 20.000 | ng/u1  | 0.00     |
|                               |        |      |          |        |        |          |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.175  | 96   | 29932    | 4.221  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.587  | 84   | 146629   | 7.346  | ng/u1  | 0.00     |
| 7) Phenol-d5                  | 6.834  | 99   | 685170   | 27.247 | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.005  | 67   | 383296   | 26.058 | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.193  | 132  | 553737   | 28.859 | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.369  | 113  | 537597   | 26.226 | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 8.816  | 128  | 289174   | 28.340 | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.534  | 143  | 319821   | 30.342 | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.069 | 165  | 558558   | 28.385 | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.587 | 131  | 527746   | 18.063 | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.722 | 166  | 1815744  | 29.488 | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 13.998 | 160  | 2065888  | 29.178 | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.522 | 143  | 266023   | 21.577 | ng/u1  | 0.00     |
| 60) Fluorene-d10              | 15.298 | 176  | 1549166  | 29.734 | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.434 | 200  | 208295   | 22.769 | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.151 | 188  | 2319294  | 29.766 | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.451 | 212  | 2231212  | 34.570 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 24.015 | 264  | 1125251  | 20.213 | ng/u1  | 0.00     |
|                               |        |      |          |        |        |          |
| Target Compounds              |        |      |          |        | Qvalue |          |
| 16) Acetophenone              | 8.487  | 105  | 35129    | 1.131  | ng/u1  | 99       |
| 50) Acenaphthylene            | 14.028 | 152  | 148256   | 1.853  | ng/u1  | 98       |
| 72) Phenanthrene              | 17.098 | 178  | 1505233  | 16.236 | ng/u1  | 98       |
| 74) Anthracene                | 17.186 | 178  | 223510   | 2.379  | ng/u1  | 99       |
| 77) Carbazole                 | 17.463 | 167  | 117158   | 1.463  | ng/u1  | 100      |
| 80) Fluoranthene              | 19.122 | 202  | 2993855  | 38.813 | ng/u1  | 98       |
| 82) Pyrene                    | 19.480 | 202  | 2241527  | 28.324 | ng/u1  | 97       |
| 83) Butylbenzylphthalate      | 20.392 | 149  | 67194    | 1.798  | ng/u1  | 93       |
| 85) Benzo(a)anthracene        | 21.269 | 228  | 1156015  | 14.319 | ng/u1  | 99       |
| 86) Bis(2-ethylhexyl)phtha... | 21.198 | 149  | 368693   | 6.767  | ng/u1  | 99       |
| 87) Chrysene                  | 21.333 | 228  | 1170384  | 15.521 | ng/u1  | 98       |
| 90) Benzo(b)fluoranthene      | 23.292 | 252  | 1289842  | 18.509 | ng/u1  | 98       |
| 91) Benzo(k)fluoranthene      | 23.351 | 252  | 441519m  | 6.457  | ng/u1  |          |
| 93) Benzo(a)pyrene            | 24.080 | 252  | 517519   | 7.929  | ng/u1  | 97       |
| 94) Indeno(1,2,3-cd)pyrene    | 27.509 | 276  | 449857   | 5.981  | ng/u1  | 97       |
| 95) Dibenzo(a,h)anthracene    | 27.545 | 278  | 148135   | 2.412  | ng/u1# | 91       |
| -----                         |        |      |          |        |        |          |

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

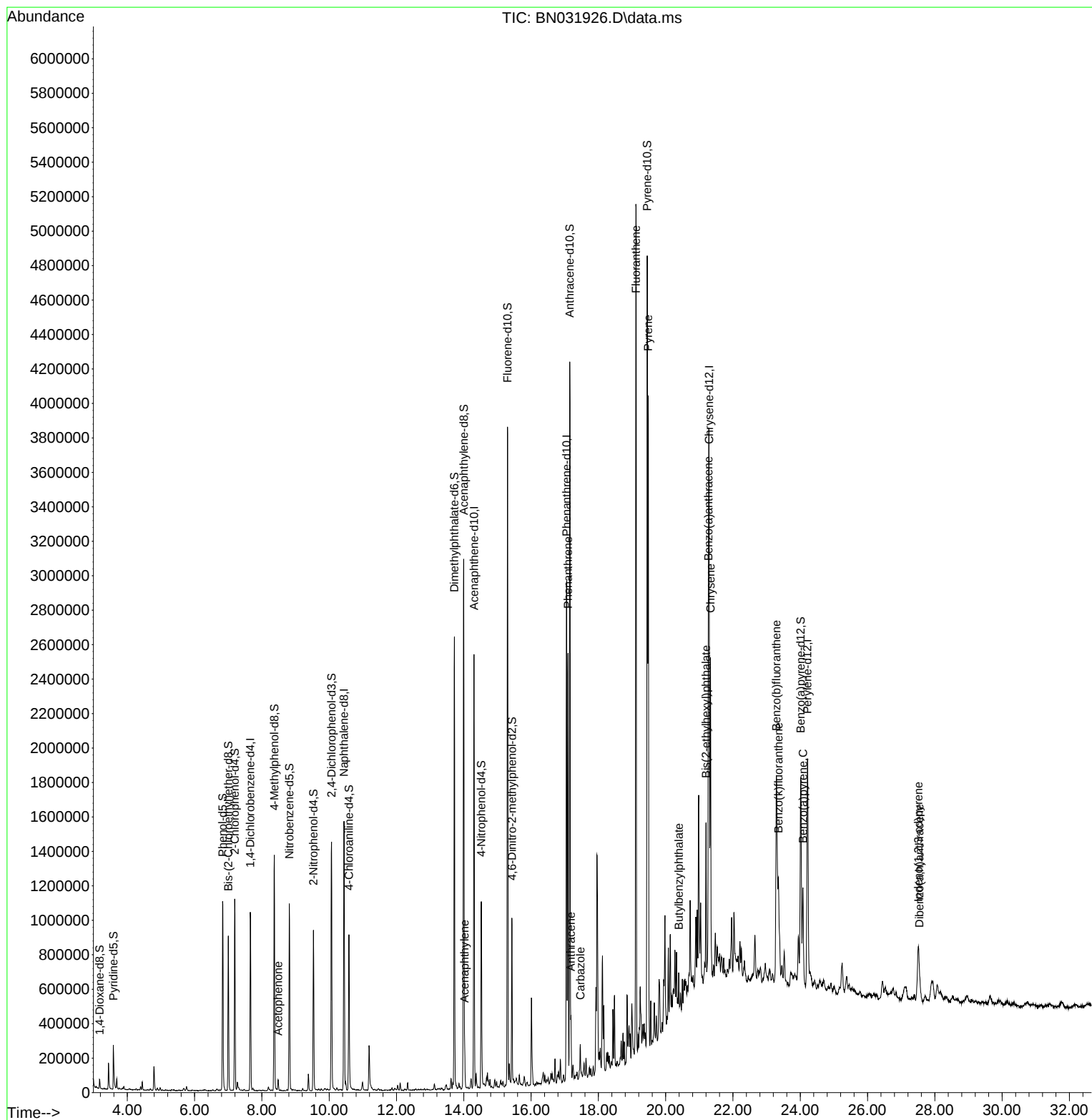
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 Data File : BN031926.D  
 Acq On : 12 Jun 2024 01:33  
 Operator : MA/JU  
 Sample : P2659-20  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

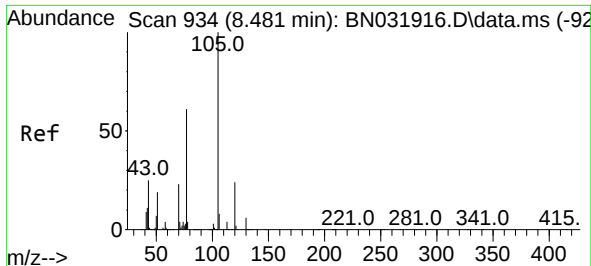
Instrument :  
 BNA\_N  
 ClientSampleId :  
 BHC41

### Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 06/12/2024  
 Supervised By :mohammad ahmed 06/14/2024

Quant Time: Jun 12 02:03:42 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN052924.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Jun 11 22:28:10 2024  
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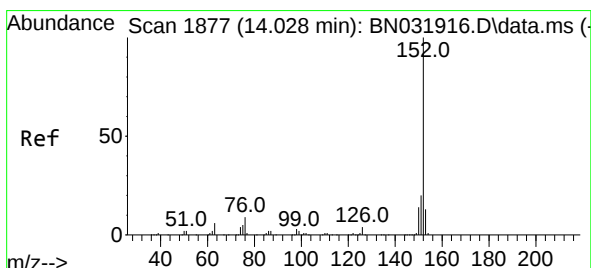
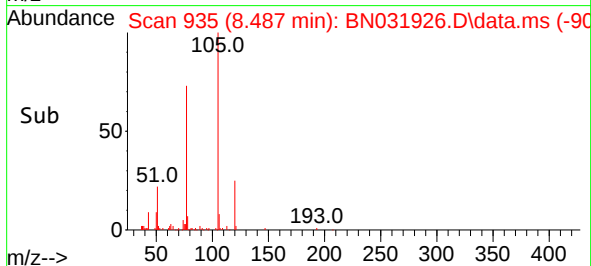
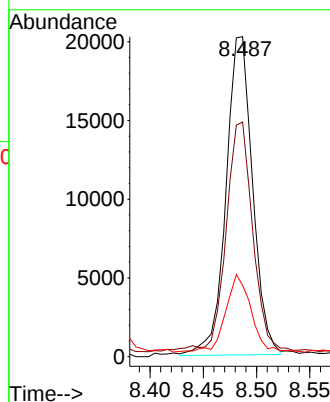
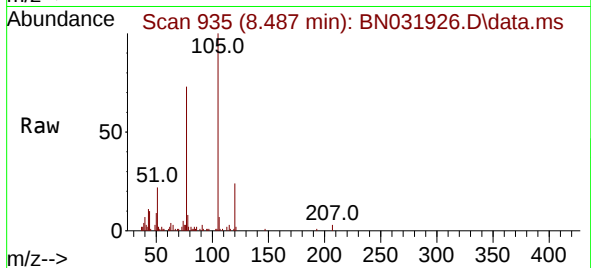
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Acetophenone  
Concen: 1.131 ng/ul  
RT: 8.487 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: BN031926.D  
Acq: 12 Jun 2024 01:33

Instrument :  
BNA\_N  
ClientSampleId :  
BHC41

Tgt Ion:105 Resp: 35129  
Ion Ratio Lower Upper  
105 100  
77 73.3 58.6 87.8  
51 22.3 17.2 25.8

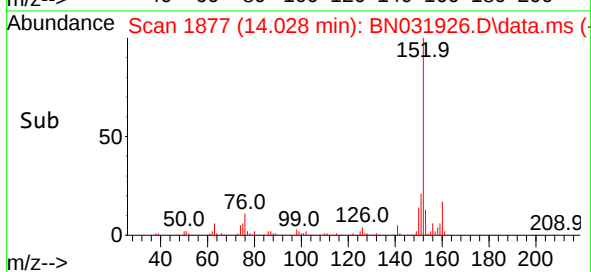
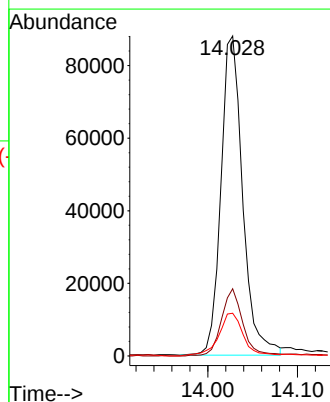
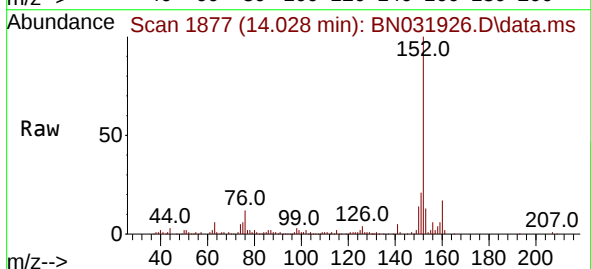
Manual Integrations  
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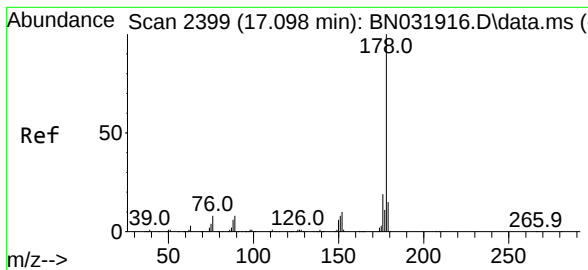
Reviewed By :Jagrut Upadhyay 06/12/2024  
Supervised By :mohammad ahmed 06/14/2024



#50  
Acenaphthylene  
Concen: 1.853 ng/ul  
RT: 14.028 min Scan# 1877  
Delta R.T. 0.000 min  
Lab File: BN031926.D  
Acq: 12 Jun 2024 01:33

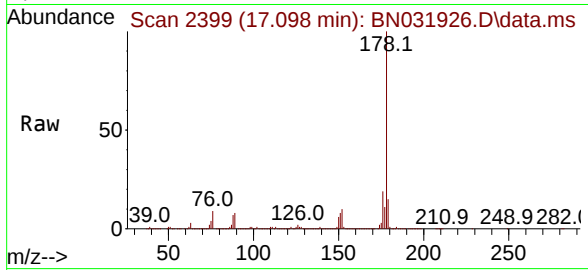
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Ion Ratio Lower Upper  
152 100  
151 21.0 15.9 23.9  
153 13.4 10.4 15.6





#72  
 Phenanthrene  
 Concen: 16.236 ng/u1  
 RT: 17.098 min Scan# 2399  
 Delta R.T. 0.000 min  
 Lab File: BN031926.D  
 Acq: 12 Jun 2024 01:33

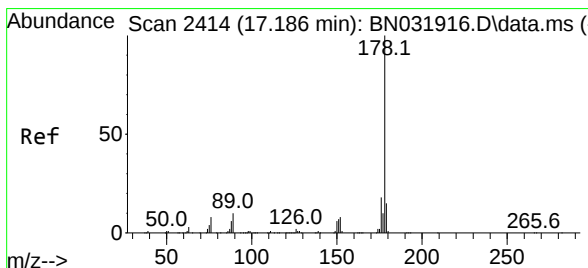
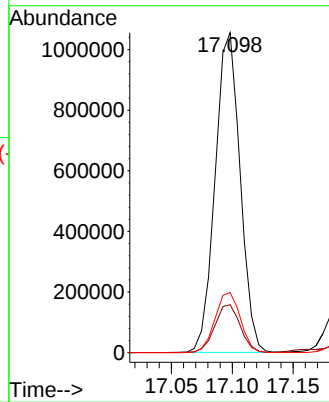
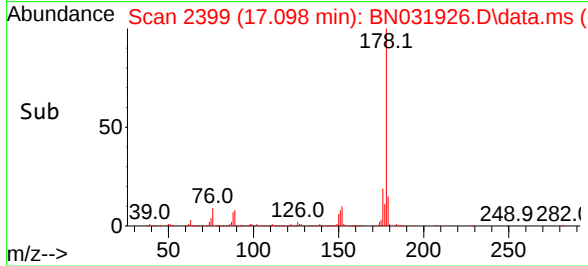
Instrument :  
 BNA\_N  
 ClientSampleId :  
 BHC41



Tgt Ion:178 Resp: 150523  
 Ion Ratio Lower Upper  
 178 100  
 179 15.0 12.6 19.0  
 176 18.8 15.8 23.6

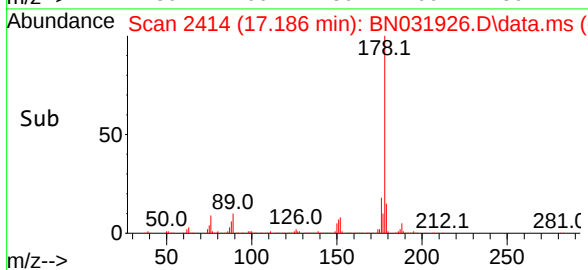
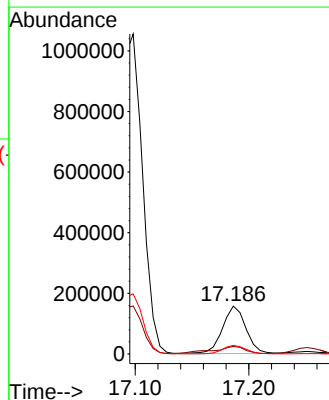
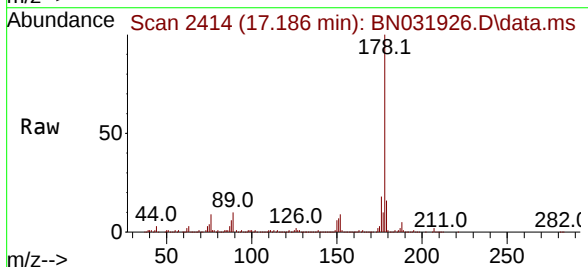
Manual Integrations  
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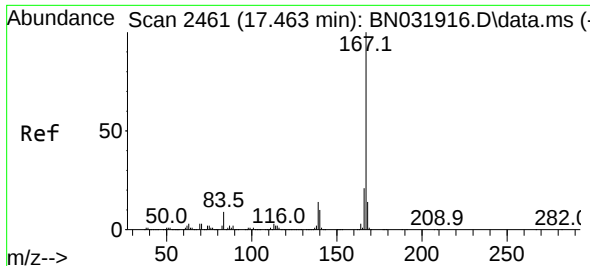
Reviewed By :Jagrut Upadhyay 06/12/2024  
 Supervised By :mohammad ahmed 06/14/2024



#74  
 Anthracene  
 Concen: 2.379 ng/u1  
 RT: 17.186 min Scan# 2414  
 Delta R.T. 0.000 min  
 Lab File: BN031926.D  
 Acq: 12 Jun 2024 01:33

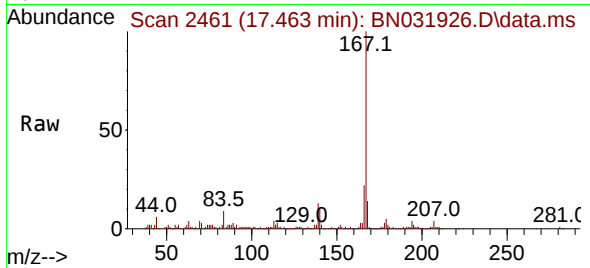
Tgt Ion:178 Resp: 223510  
 Ion Ratio Lower Upper  
 178 100  
 179 15.6 11.8 17.6  
 176 18.2 14.8 22.2





#77  
 Carbazole  
 Concen: 1.463 ng/ul  
 RT: 17.463 min Scan# 2461  
 Delta R.T. 0.000 min  
 Lab File: BN031926.D  
 Acq: 12 Jun 2024 01:33

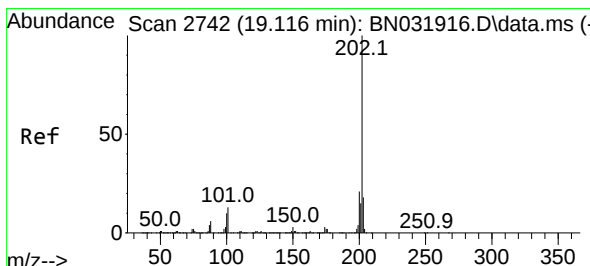
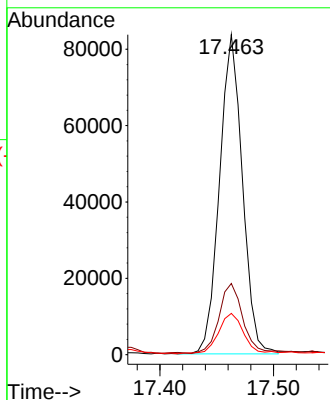
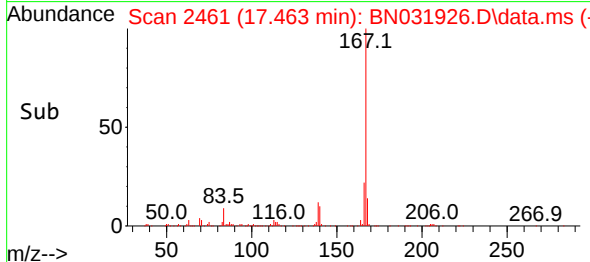
Instrument :  
 BNA\_N  
 ClientSampleId :  
 BHC41



Tgt Ion:167 Resp: 117158  
 Ion Ratio Lower Upper  
 167 100  
 166 22.2 17.9 26.9  
 139 12.9 10.5 15.7

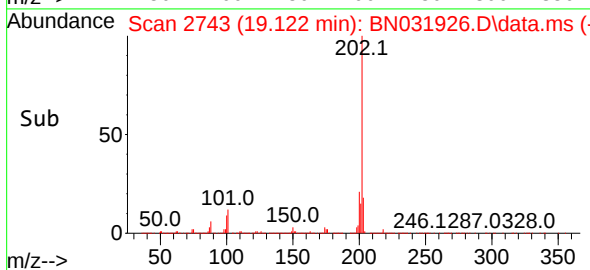
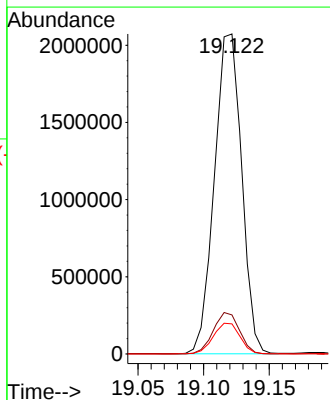
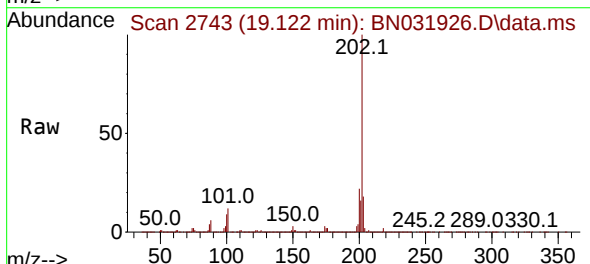
Manual Integrations  
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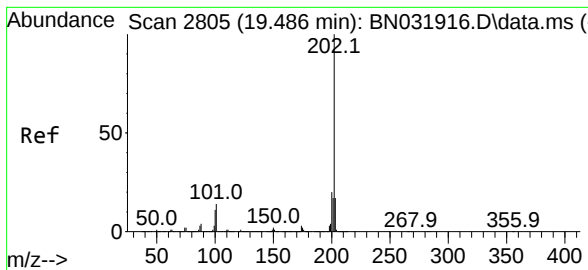
Reviewed By :Jagrut Upadhyay 06/12/2024  
 Supervised By :mohammad ahmed 06/14/2024



#80  
 Fluoranthene  
 Concen: 38.813 ng/ul  
 RT: 19.122 min Scan# 2743  
 Delta R.T. 0.006 min  
 Lab File: BN031926.D  
 Acq: 12 Jun 2024 01:33

Tgt Ion:202 Resp: 2993855  
 Ion Ratio Lower Upper  
 202 100  
 101 12.2 10.3 15.5  
 100 9.4 8.0 12.0





#82

Pyrene

Concen: 28.324 ng/ul

RT: 19.480 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN031926.D

Acq: 12 Jun 2024 01:33

Instrument :

BNA\_N

ClientSampleId :

BHC41

Tgt Ion:202 Resp: 224152

Ion Ratio Lower Upper

202 100

101 14.1 12.6 18.8

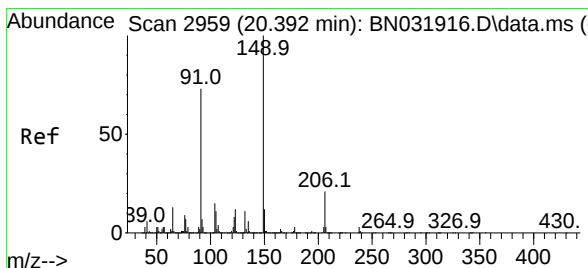
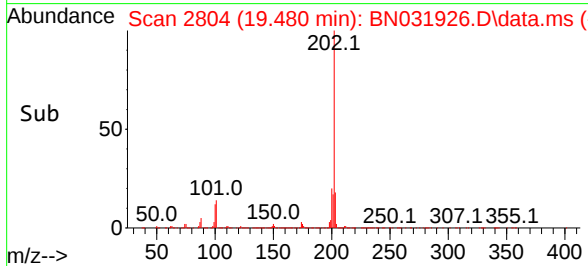
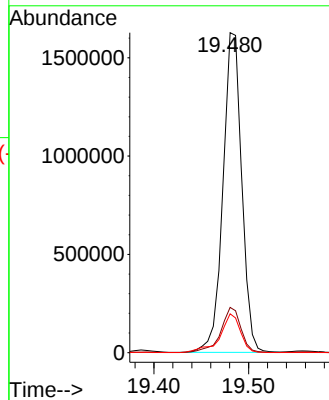
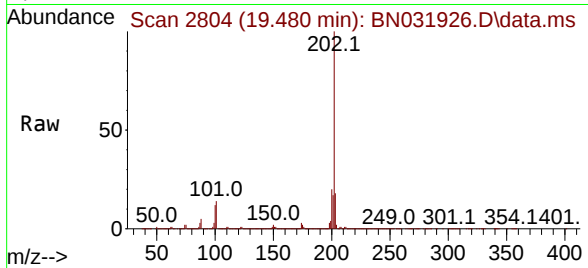
100 12.2 10.2 15.2

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 06/12/2024

Supervised By :mohammad ahmed 06/14/2024



#83

Butylbenzylphthalate

Concen: 1.798 ng/ul

RT: 20.392 min Scan# 2959

Delta R.T. 0.000 min

Lab File: BN031926.D

Acq: 12 Jun 2024 01:33

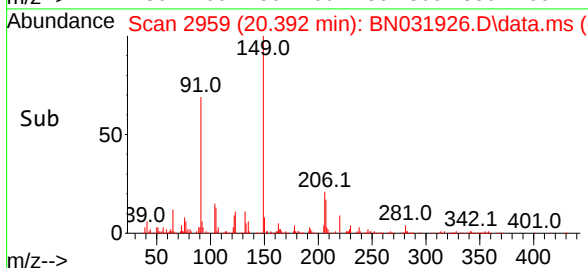
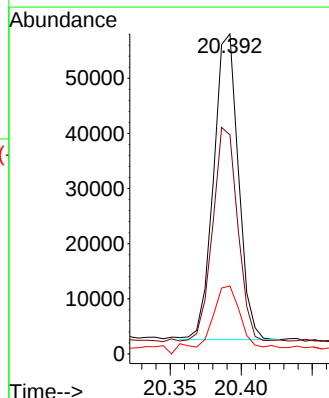
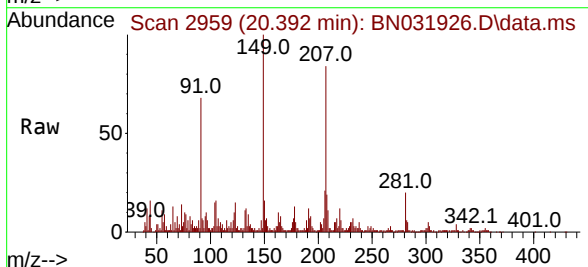
Tgt Ion:149 Resp: 67194

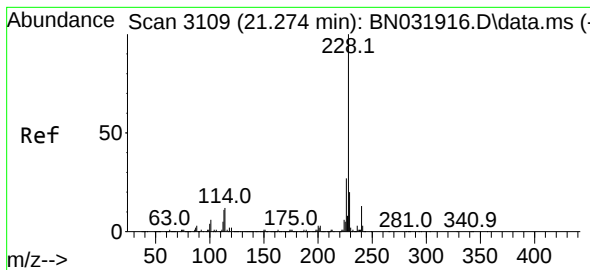
Ion Ratio Lower Upper

149 100

91 68.5 61.0 91.4

206 21.2 16.5 24.7





#85

Benzo(a)anthracene

Concen: 14.319 ng/ul

RT: 21.269 min Scan# 3109

Delta R.T. -0.006 min

Lab File: BN031926.D

Acq: 12 Jun 2024 01:33

Instrument :

BNA\_N

ClientSampleId :

BHC41

Tgt Ion:228 Resp: 115601

Ion Ratio Lower Upper

228 100

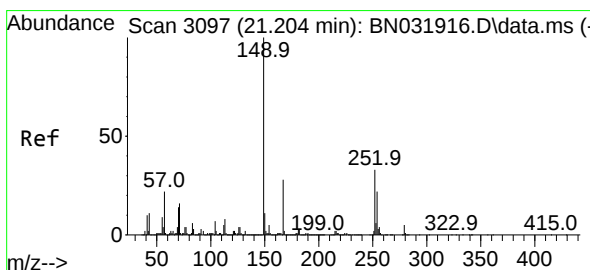
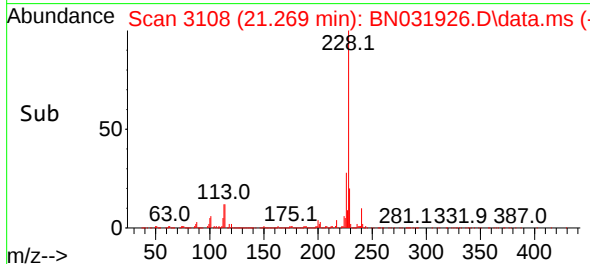
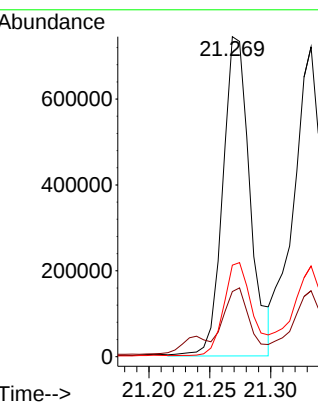
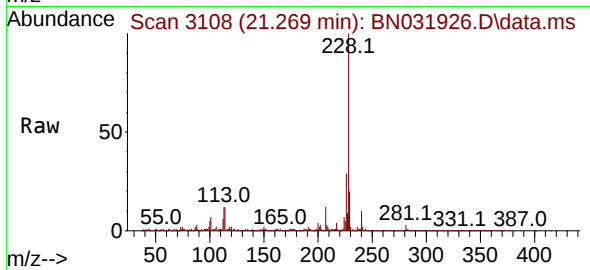
229 20.3 16.7 25.1

226 28.6 22.8 34.2

Manual Integrations

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Reviewed By :Jagrut Upadhyay 06/12/2024  
Supervised By :mohammad ahmed 06/14/2024



#86

Bis(2-ethylhexyl)phthalate

Concen: 6.767 ng/ul

RT: 21.198 min Scan# 3096

Delta R.T. -0.006 min

Lab File: BN031926.D

Acq: 12 Jun 2024 01:33

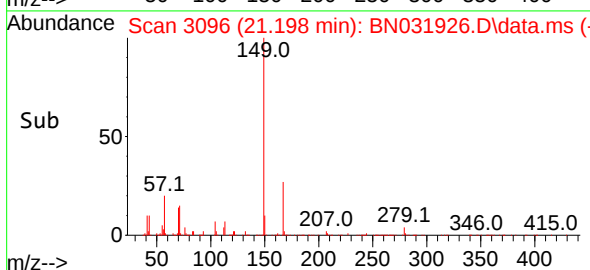
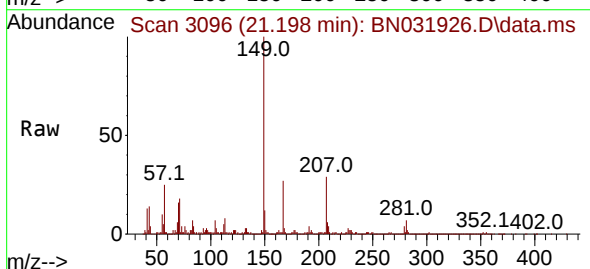
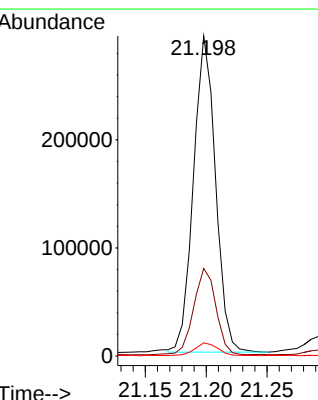
Tgt Ion:149 Resp: 368693

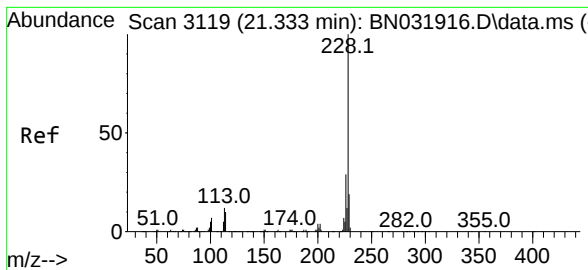
Ion Ratio Lower Upper

149 100

167 27.4 21.4 32.0

279 4.1 3.3 4.9





#87

Chrysene

Concen: 15.521 ng/u1

RT: 21.333 min Scan# 3119

Delta R.T. 0.000 min

Lab File: BN031926.D

Acq: 12 Jun 2024 01:33

Instrument :

BNA\_N

ClientSampleId :

BHC41

Tgt Ion:228 Resp: 1170384

Ion Ratio Lower Upper

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226 29.3 23.7 35.5

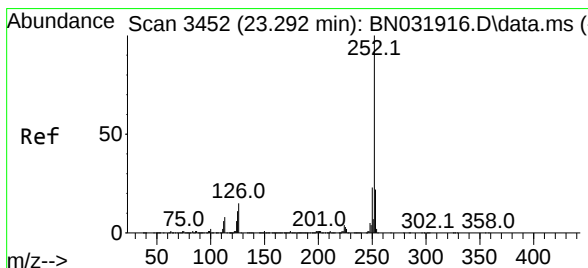
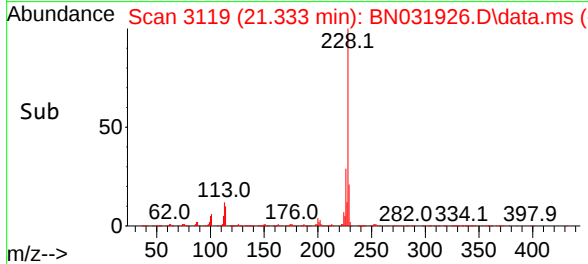
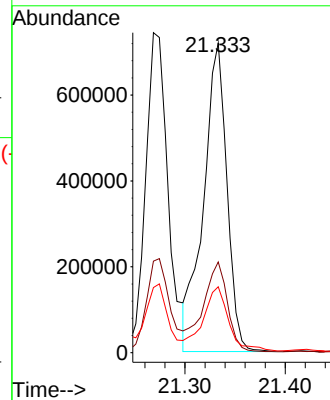
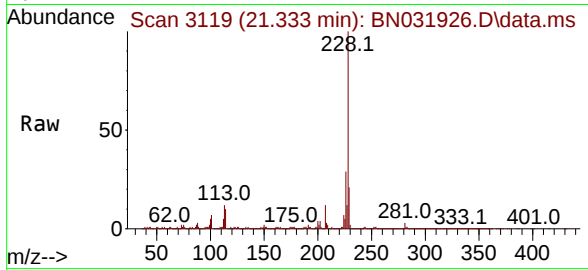
229 21.3 15.1 22.7

Manual Integrations

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Supervised By :mohammad ahmed 06/14/2024



#90

Benzo(b)fluoranthene

Concen: 18.509 ng/u1

RT: 23.292 min Scan# 3452

Delta R.T. 0.000 min

Lab File: BN031926.D

Acq: 12 Jun 2024 01:33

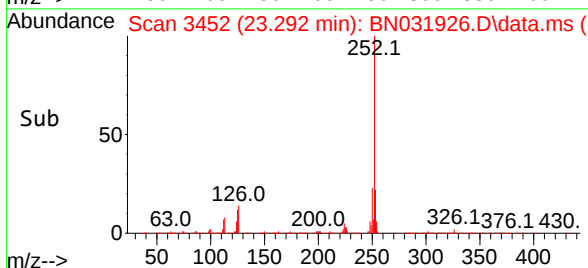
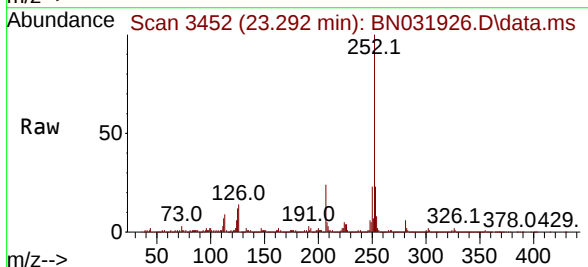
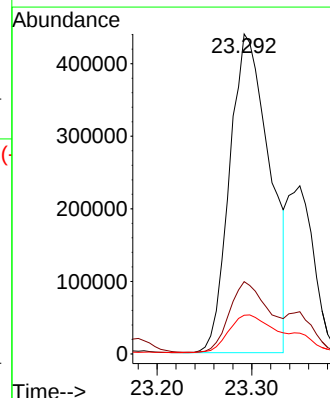
Tgt Ion:252 Resp: 1289842

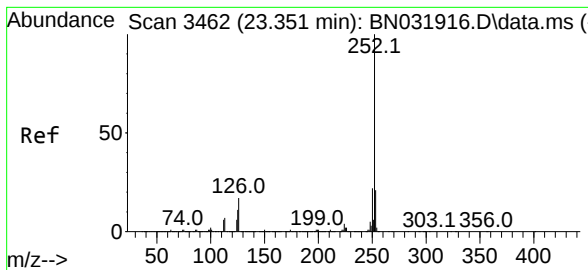
Ion Ratio Lower Upper

252 100

253 22.6 17.0 25.6

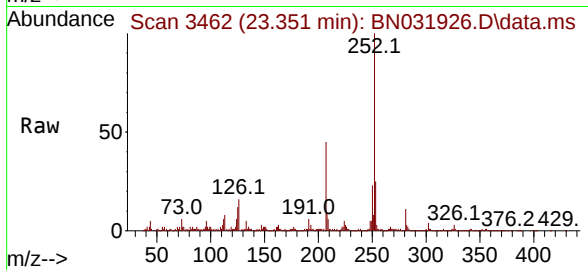
125 12.1 9.2 13.8





#91  
Benzo(k)fluoranthene  
Concen: 6.457 ng/ul m  
RT: 23.351 min Scan# 3462  
Delta R.T. 0.000 min  
Lab File: BN031926.D  
Acq: 12 Jun 2024 01:33

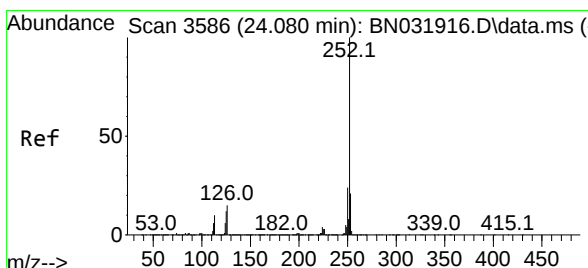
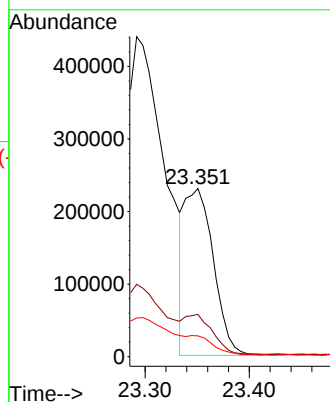
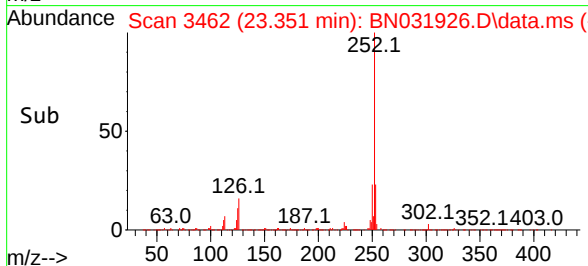
Instrument :  
BNA\_N  
ClientSampleId :  
BHC41



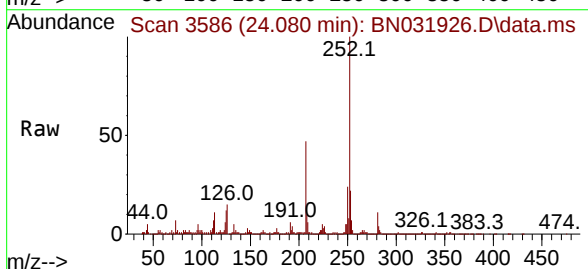
Tgt Ion:252 Resp: 441519  
Ion Ratio Lower Upper  
252 100  
253 25.2 17.6 26.4  
125 12.4 9.4 14.2

Manual Integrations  
APPROVED

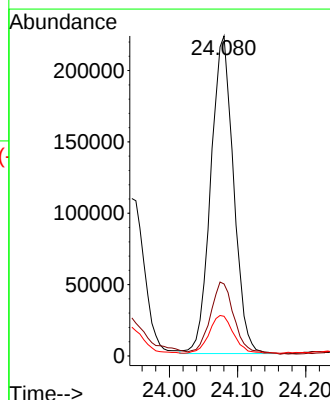
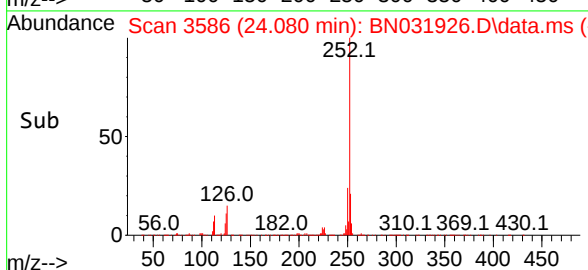
Reviewed By :Jagrut Upadhyay 06/12/2024  
Supervised By :mohammad ahmed 06/14/2024

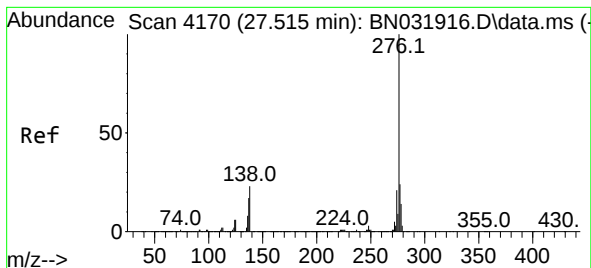


#93  
Benzo(a)pyrene  
Concen: 7.929 ng/ul  
RT: 24.080 min Scan# 3586  
Delta R.T. 0.000 min  
Lab File: BN031926.D  
Acq: 12 Jun 2024 01:33



Tgt Ion:252 Resp: 517519  
Ion Ratio Lower Upper  
252 100  
253 22.5 16.6 24.8  
125 12.4 9.8 14.8





#94

Indeno(1,2,3-cd)pyrene

Concen: 5.981 ng/ul

RT: 27.509 min Scan# 4169

Delta R.T. -0.006 min

Lab File: BN031926.D

Acq: 12 Jun 2024 01:33

Instrument :

BNA\_N

ClientSampleId :

BHC41

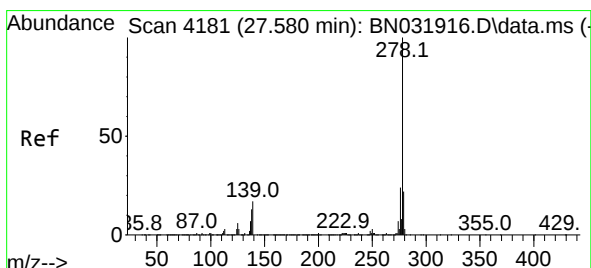
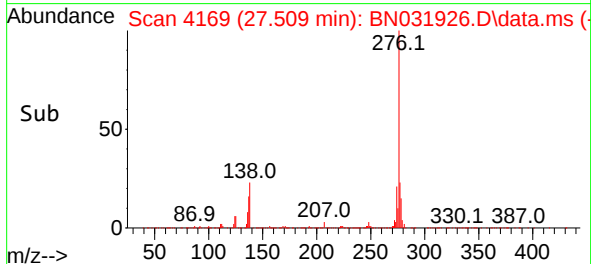
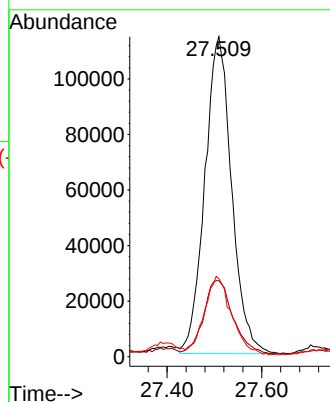
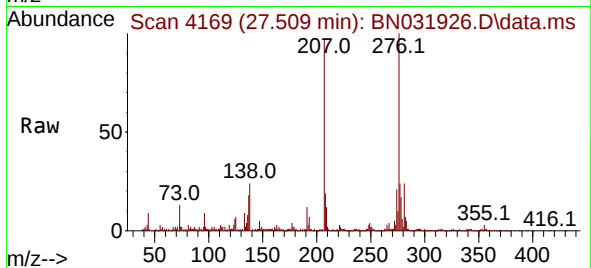
Tgt Ion:276 Resp: 44985

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 23.7  | 18.1  | 27.1  |
| 277 | 24.4  | 18.2  | 27.2  |

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 06/12/2024  
Supervised By :mohammad ahmed 06/14/2024



#95

Dibenzo(a,h)anthracene

Concen: 2.412 ng/ul

RT: 27.545 min Scan# 4175

Delta R.T. -0.035 min

Lab File: BN031926.D

Acq: 12 Jun 2024 01:33

Tgt Ion:278 Resp: 148135

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 278 | 100   |       |       |
| 139 | 17.8  | 15.0  | 22.6  |
| 279 | 29.0  | 17.4  | 26.0  |

