

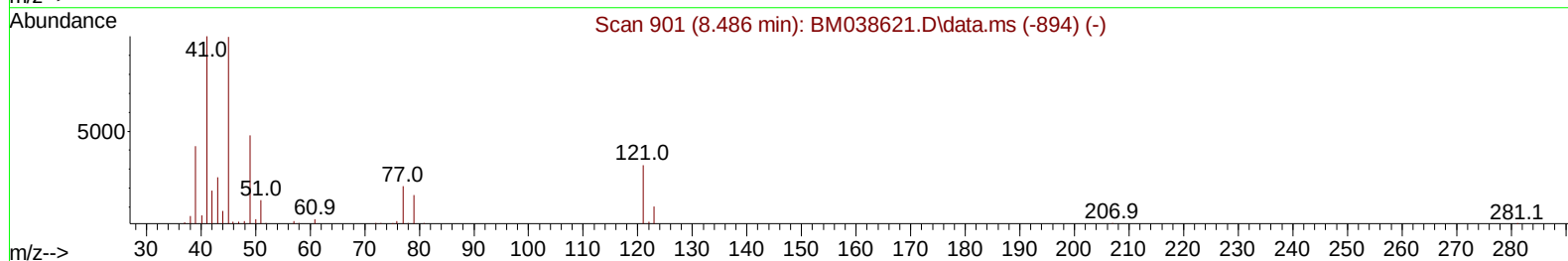
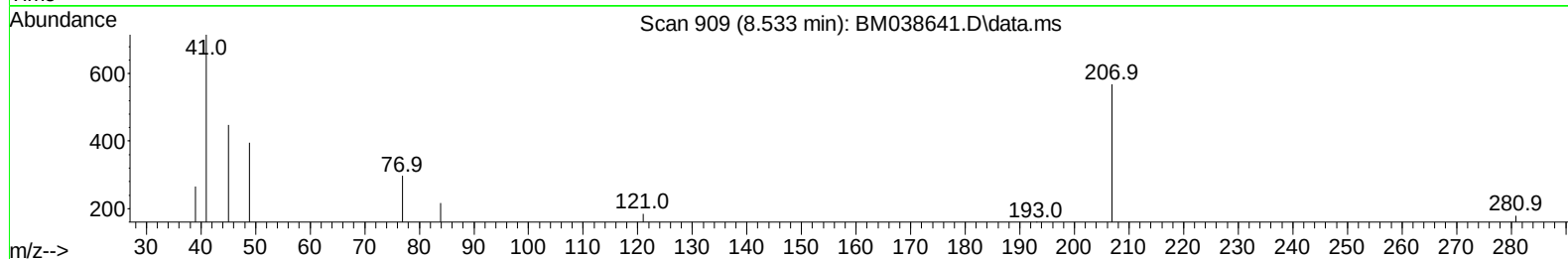
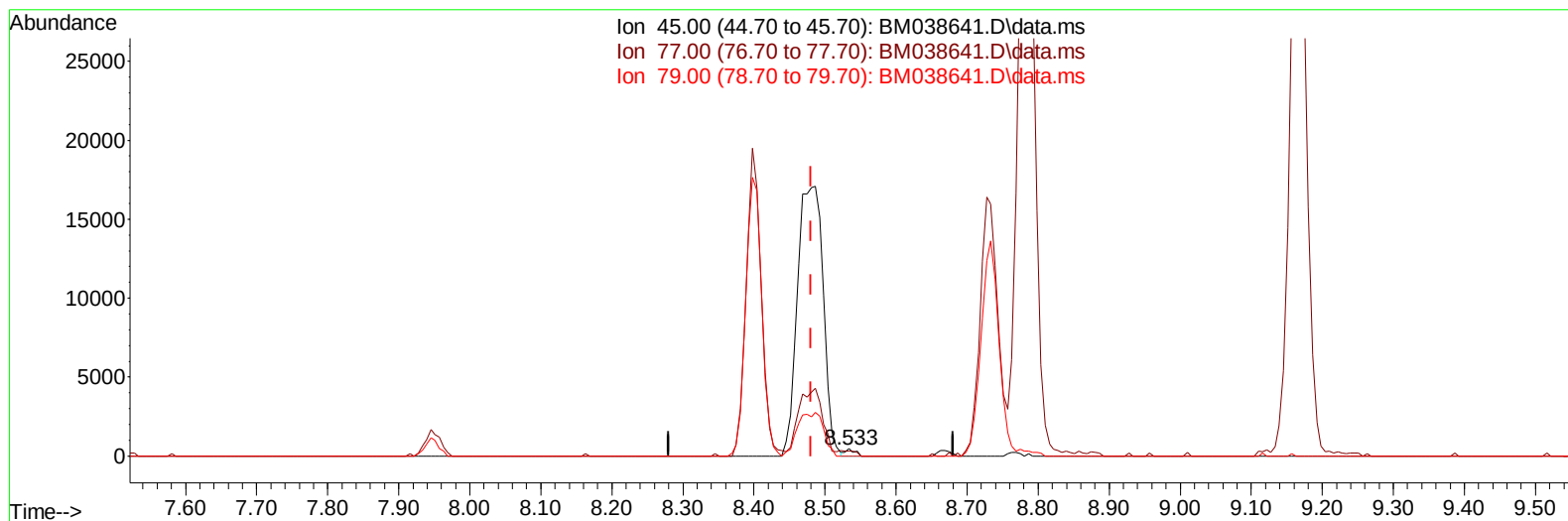
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM013123\  
 Data File : BM038641.D  
 Acq On : 01 Feb 2023 05:36  
 Operator : CG/JU  
 Sample : SSTDCCC020EC  
 Misc :  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 LabSampleId :  
 SSTDCCC020EC

Manual IntegrationsAPPROVED

Quant Time: Feb 01 06:21:28 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-BM013023.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Jan 31 01:02:54 2023  
 Response via : Initial Calibration

Reviewed By :Yogesh Patel 02/01/2023  
 Supervised By :mohammad ahmed 02/01/2023



TIC: BM038641.D\data.ms

(14) 2,2'-oxybis(1-Chloropropane)

8.533min (+ 0.053) 0.17 ng/uL

response 430

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 45.00 | 100.00 | 100.00 |
| 77.00 | 21.10  | 66.29# |
| 79.00 | 14.70  | 0.00#  |
| 0.00  | 0.00   | 0.00   |

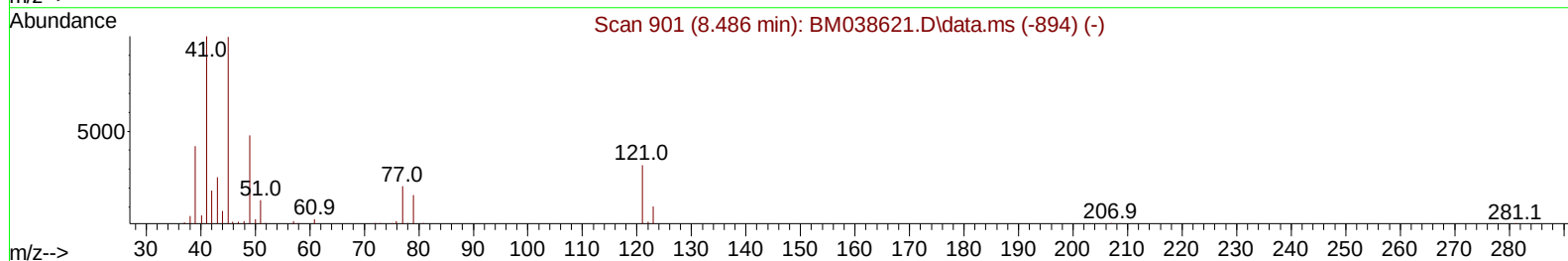
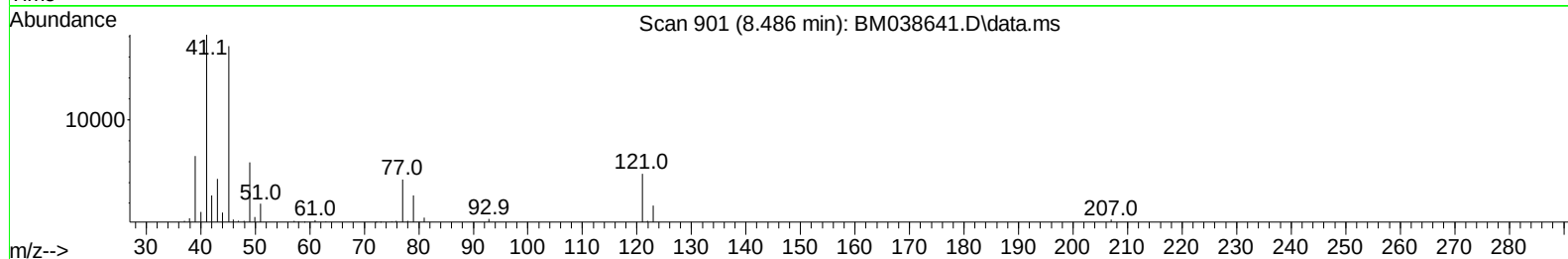
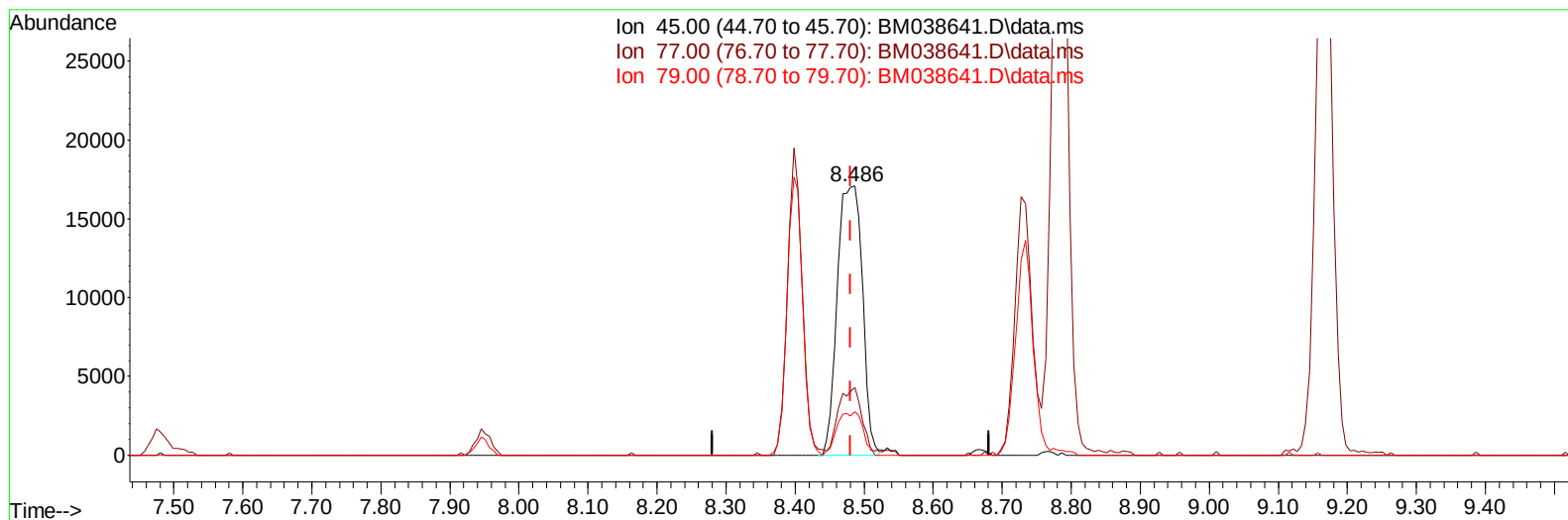
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TIC: BM038641.D\data.ms

(14) 2,2'-oxybis(1-Chloropropane)

8.486min (+ 0.006) 16.98 ng/ul m

response 42975

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 45.00 | 100.00 | 100.00 |
| 77.00 | 21.10  | 25.16  |
| 79.00 | 14.70  | 16.15  |
| 0.00  | 0.00   | 0.00   |

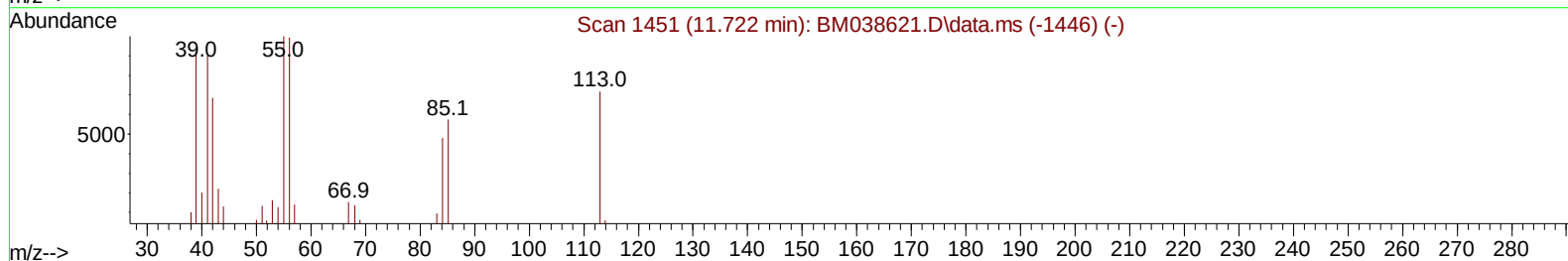
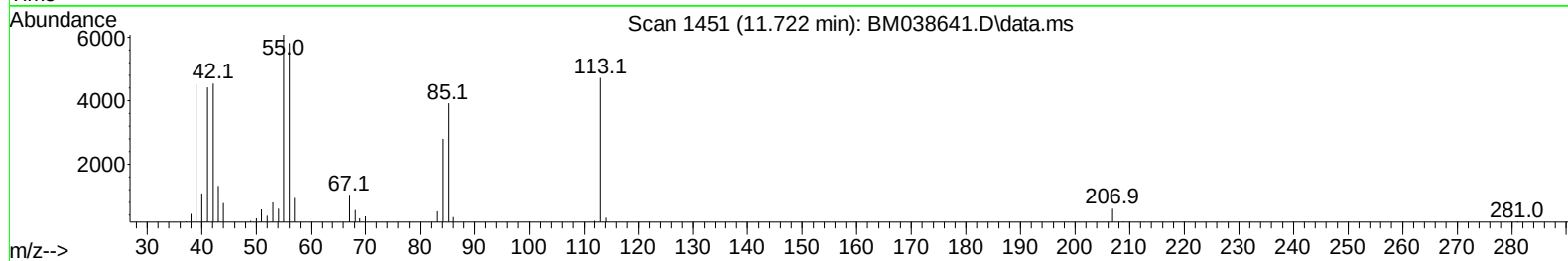
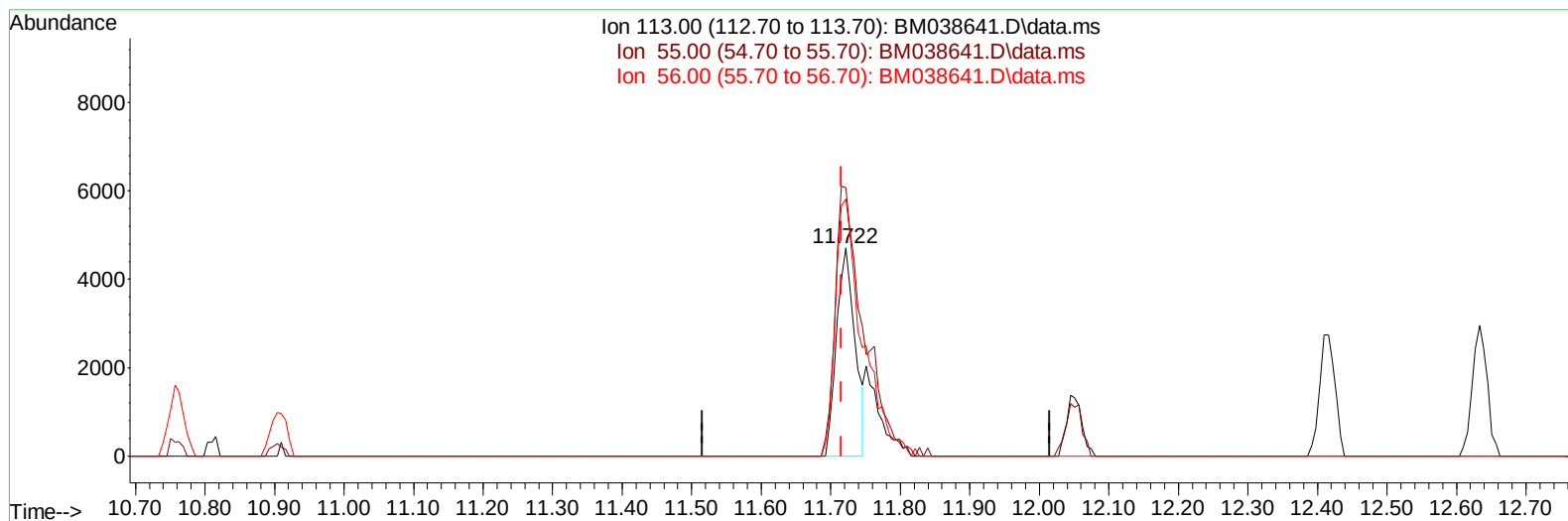
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Manual IntegrationsAPPROVED

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**(34) Caprolactam**

11.722min (+ 0.006) 13.32 ng/ul

response 8694

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 113.00 | 100.00 | 100.00 |
| 55.00  | 134.50 | 128.90 |
| 56.00  | 120.60 | 123.32 |
| 0.00   | 0.00   | 0.00   |

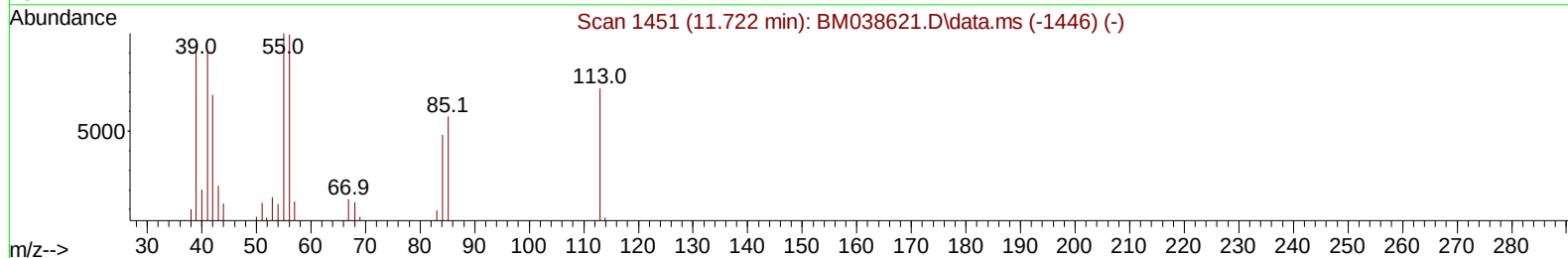
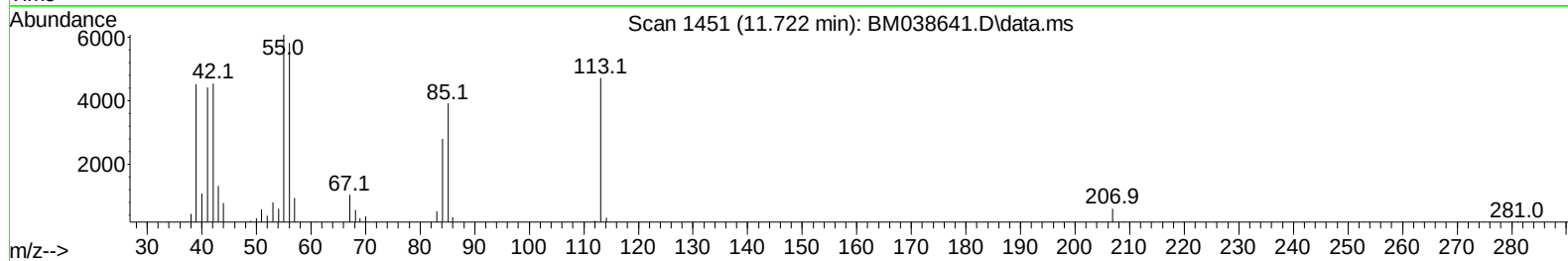
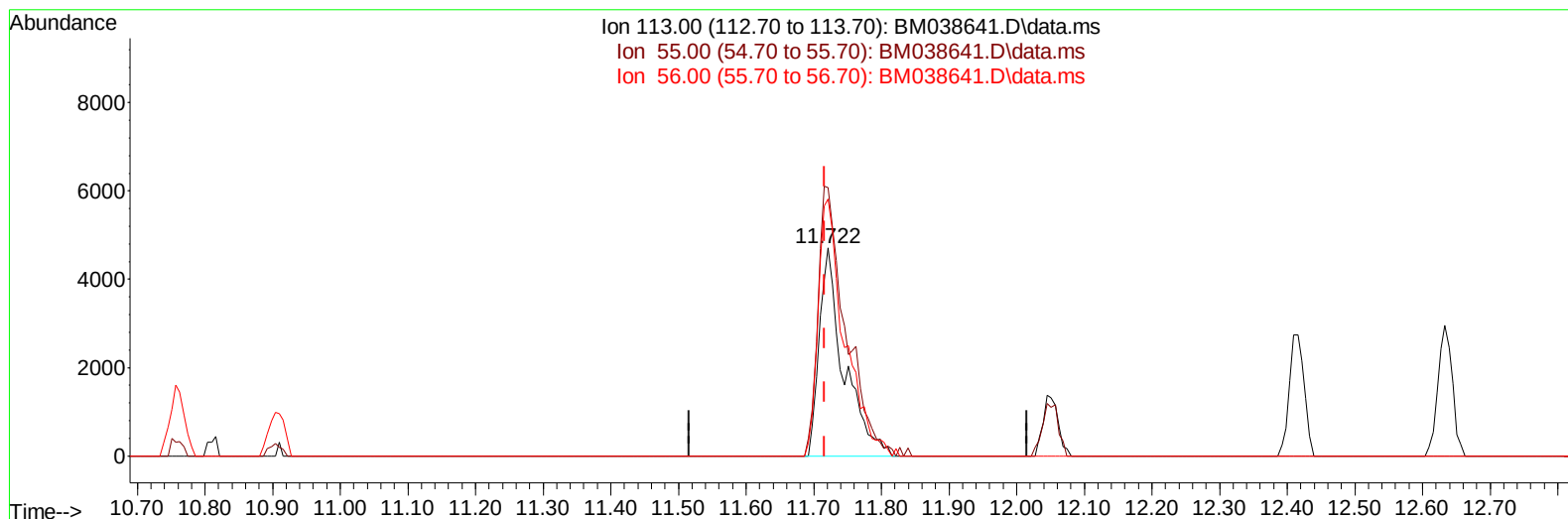
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ALS Vial : 31 Sample Multiplier: 1

Instrument :  
BNA\_M  
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Manual IntegrationsAPPROVED

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Supervised By :mohammad ahmed 02/01/2023



TIC: BM038641.D\data.ms

**(34) Caprolactam**

11.722min (+ 0.006) 18.16 ng/ul m

response 11852

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 113.00 | 100.00 | 100.00 |
| 55.00  | 134.50 | 128.90 |
| 56.00  | 120.60 | 123.32 |
| 0.00   | 0.00   | 0.00   |

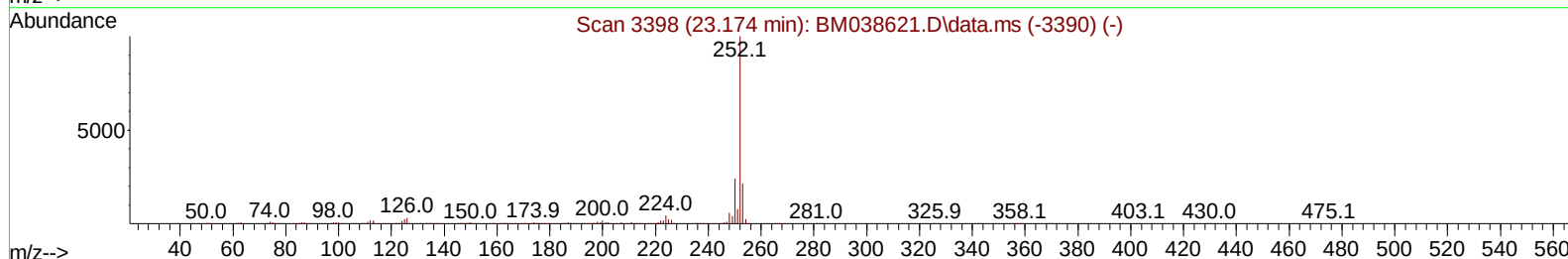
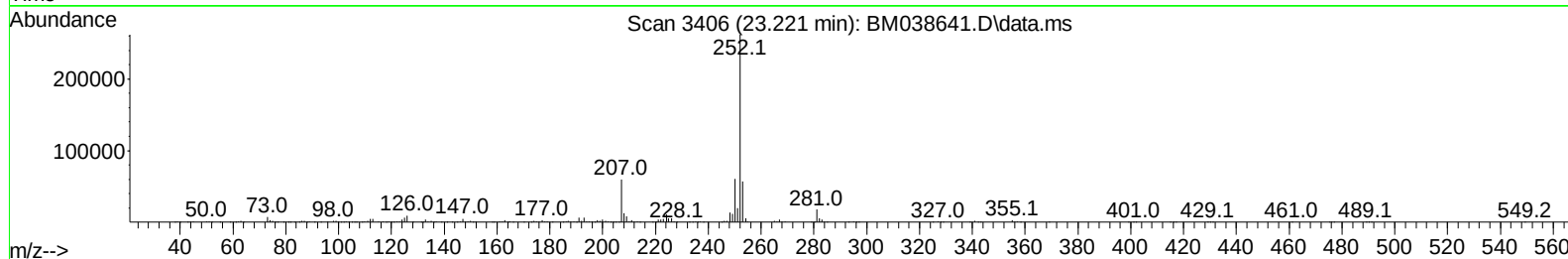
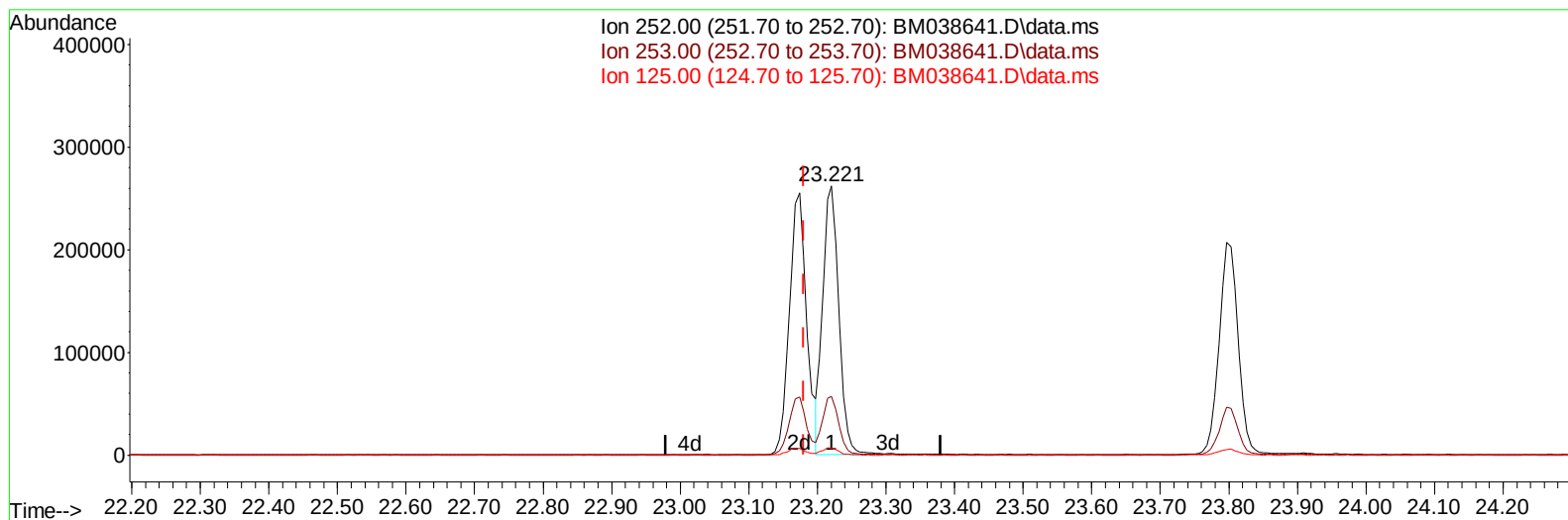
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Manual IntegrationsAPPROVED

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TIC: BM038641.D\data.ms

**(90) Benzo(b)fluoranthene**

**23.221min (+ 0.041) 19.58 ng/ul**

**response 424905**

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 22.20  | 21.82  |
| 125.00 | 3.20   | 2.58   |
| 0.00   | 0.00   | 0.00   |

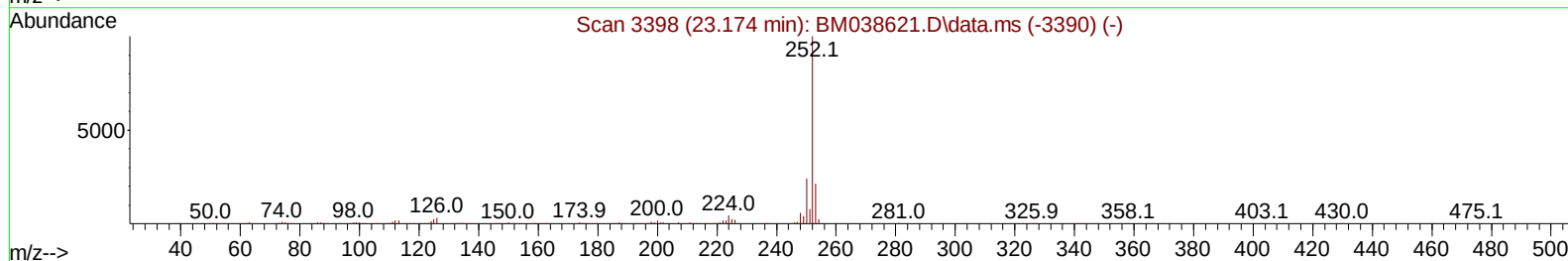
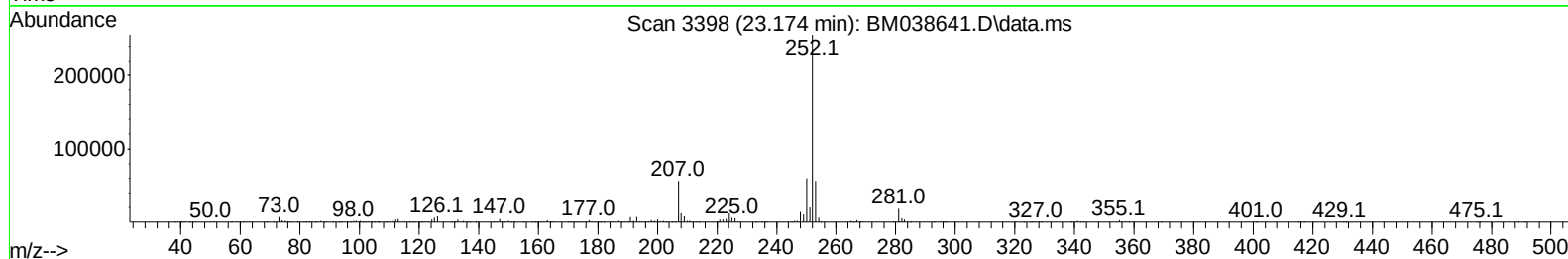
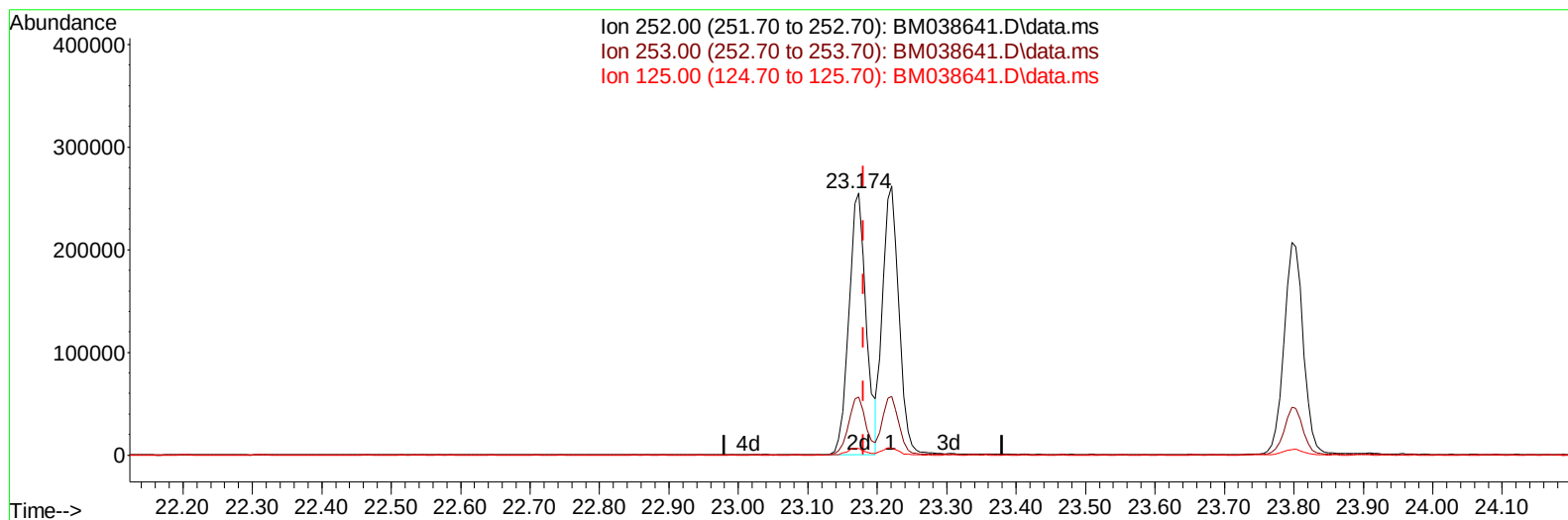
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 Sample : SSTDCCC020EC  
 Misc :  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 LabSampleId :  
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Manual IntegrationsAPPROVED

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TIC: BM038641.D\data.ms

**(90) Benzo(b)fluoranthene**

**23.174min (-0.006) 20.50 ng/ul m**

**response 444844**

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 22.20  | 22.16  |
| 125.00 | 3.20   | 2.51#  |
| 0.00   | 0.00   | 0.00   |

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Instrument :  
 BNA\_M  
 LabSampleId :  
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Manual IntegrationsAPPROVED

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| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.951  | 152  | 51311    | 20.000 | ng/ul  | 0.00     |
| 20) Naphthalene-d8            | 10.757 | 136  | 157548   | 20.000 | ng/ul  | -0.01    |
| 38) Acenaphthene-d10          | 14.586 | 164  | 130503   | 20.000 | ng/ul  | 0.00     |
| 64) Phenanthrene-d10          | 17.327 | 188  | 297150   | 20.000 | ng/ul  | # 0.00   |
| 79) Chrysene-d12              | 21.503 | 240  | 258540   | 20.000 | ng/ul  | 0.00     |
| 88) Perylene-d12              | 23.903 | 264  | 350936   | 20.000 | ng/ul  | -0.01    |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.328  | 96   | 9409     | 6.538  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.763  | 84   | 57561    | 15.973 | ng/ul  | 0.00     |
| 7) Phenol-d5                  | 7.116  | 99   | 58733    | 17.148 | ng/ul  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.281  | 67   | 34433    | 17.224 | ng/ul  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.481  | 132  | 53035    | 18.672 | ng/ul  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.663  | 113  | 47819    | 17.498 | ng/ul  | -0.01    |
| 21) Nitrobenzene-d5           | 9.122  | 128  | 24164    | 20.234 | ng/ul  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.845  | 143  | 34627    | 21.956 | ng/ul  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.380 | 165  | 82030    | 23.502 | ng/ul  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.904 | 131  | 60632    | 17.875 | ng/ul  | -0.01    |
| 46) Dimethylphthalate-d6      | 13.998 | 166  | 206927   | 19.195 | ng/ul  | 0.00     |
| 49) Acenaphthylene-d8         | 14.280 | 160  | 227097   | 19.796 | ng/ul  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.798 | 143  | 22195    | 14.883 | ng/ul  | 0.00     |
| 60) Fluorene-d10              | 15.574 | 176  | 191990   | 19.915 | ng/ul  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.704 | 200  | 44135    | 17.351 | ng/ul  | 0.00     |
| 73) Anthracene-d10            | 17.427 | 188  | 290003   | 19.389 | ng/ul  | 0.00     |
| 81) Pyrene-d10                | 19.715 | 212  | 301168   | 22.607 | ng/ul  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 23.750 | 264  | 364642   | 20.243 | ng/ul  | -0.01    |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 2) 1,4-Dioxane                | 3.363  | 88   | 9868     | 6.364  | ng/uL  | 96       |
| 5) Pyridine                   | 3.781  | 79   | 59875    | 16.179 | ng/ul  | 92       |
| 6) Benzaldehyde               | 7.092  | 77   | 27840    | 17.629 | ng/ul  | 90       |
| 8) Phenol                     | 7.145  | 94   | 59232    | 17.273 | ng/ul  | 92       |
| 10) Bis(2-Chloroethyl)ether   | 7.375  | 93   | 43434    | 17.727 | ng/ul  | 86       |
| 12) 2-Chlorophenol            | 7.510  | 128  | 51708    | 18.142 | ng/ul  | 94       |
| 13) 2-Methylphenol            | 8.398  | 108  | 44754    | 17.177 | ng/ul  | 98       |
| 14) 2,2'-oxybis(1-Chloropr... | 8.486  | 45   | 42975m   | 16.977 | ng/ul  |          |
| 16) Acetophenone              | 8.786  | 105  | 82828    | 17.156 | ng/ul  | 87       |
| 17) N-Nitroso-di-n-propyla... | 8.769  | 70   | 40346    | 18.184 | ng/ul  | 90       |
| 18) 4-Methylphenol            | 8.733  | 108  | 47417    | 17.146 | ng/ul  | 94       |
| 19) Hexachloroethane          | 9.028  | 117  | 24473    | 17.023 | ng/ul# | 63       |
| 22) Nitrobenzene              | 9.169  | 77   | 66021    | 18.368 | ng/ul  | 99       |
| 23) Isophorone                | 9.692  | 82   | 105628   | 19.421 | ng/ul# | 95       |
| 25) 2-Nitrophenol             | 9.875  | 139  | 32799    | 20.981 | ng/ul  | 94       |
| 26) 2,4-Dimethylphenol        | 9.933  | 107  | 64540    | 19.008 | ng/ul  | 92       |
| 27) Bis(2-Chloroethoxy)met... | 10.175 | 93   | 53258    | 19.204 | ng/ul  | 96       |
| 29) 2,4-Dichlorophenol        | 10.410 | 162  | 75584    | 22.784 | ng/ul# | 92       |
| 30) Naphthalene               | 10.810 | 128  | 152530   | 19.513 | ng/ul  | 97       |
| 32) 4-Chloroaniline           | 10.933 | 127  | 60115    | 17.662 | ng/ul  | 99       |
| 33) Hexachlorobutadiene       | 11.080 | 225  | 68478    | 19.863 | ng/ul  | 96       |
| 34) Caprolactam               | 11.722 | 113  | 11852m   | 18.159 | ng/ul  |          |
| 35) 4-Chloro-3-methylphenol   | 12.051 | 107  | 51488    | 19.648 | ng/ul# | 81       |

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 SSTDCCC020EC

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| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 36) 2-Methylnaphthalene       | 12.416 | 142  | 124174   | 21.357 | ng/ul  | 96       |
| 37) 1-Methylnaphthalene       | 12.633 | 142  | 127056   | 21.170 | ng/ul# | 96       |
| 39) 1,2,4,5-Tetrachloroben... | 12.780 | 216  | 115072   | 17.913 | ng/ul  | 96       |
| 40) Hexachlorocyclopentadiene | 12.751 | 237  | 80797    | 17.625 | ng/ul# | 94       |
| 41) 2,4,6-Trichlorophenol     | 13.021 | 196  | 77363    | 19.780 | ng/ul  | 92       |
| 42) 2,4,5-Trichlorophenol     | 13.098 | 196  | 82894    | 19.846 | ng/ul  | 95       |
| 43) 1,1'-Biphenyl             | 13.421 | 154  | 194681   | 19.401 | ng/ul  | 99       |
| 44) 2-Chloronaphthalene       | 13.468 | 162  | 167960   | 20.148 | ng/ul# | 89       |
| 45) 2-Nitroaniline            | 13.680 | 65   | 35145    | 15.762 | ng/ul  | 91       |
| 47) Dimethylphthalate         | 14.045 | 163  | 202466   | 19.087 | ng/ul# | 98       |
| 48) 2,6-Dinitrotoluene        | 14.174 | 165  | 41324    | 21.034 | ng/ul# | 75       |
| 50) Acenaphthylene            | 14.310 | 152  | 215034   | 18.744 | ng/ul  | 97       |
| 51) 3-Nitroaniline            | 14.504 | 138  | 23139    | 16.363 | ng/ul  | 94       |
| 52) Acenaphthene              | 14.651 | 153  | 156364   | 18.312 | ng/ul  | 98       |
| 53) 2,4-Dinitrophenol         | 14.715 | 184  | 26444    | 16.744 | ng/ul# | 75       |
| 55) 4-Nitrophenol             | 14.815 | 109  | 32907    | 13.153 | ng/ul# | 91       |
| 56) Dibenzofuran              | 14.980 | 168  | 248684   | 19.581 | ng/ul# | 86       |
| 57) 2,4-Dinitrotoluene        | 14.957 | 165  | 56430    | 19.488 | ng/ul# | 80       |
| 58) 2,3,4,6-Tetrachlorophenol | 15.210 | 232  | 63700    | 17.418 | ng/ul  | 94       |
| 59) Diethylphthalate          | 15.398 | 149  | 169048   | 16.999 | ng/ul  | 93       |
| 61) Fluorene                  | 15.633 | 166  | 204197   | 19.091 | ng/ul  | 93       |
| 62) 4-Chlorophenyl-phenyle... | 15.621 | 204  | 133204   | 17.699 | ng/ul  | 91       |
| 63) 4-Nitroaniline            | 15.662 | 138  | 18389    | 15.773 | ng/ul  | 87       |
| 66) 4,6-Dinitro-2-methylph... | 15.721 | 198  | 41470    | 17.276 | ng/ul# | 86       |
| 67) N-Nitrosodiphenylamine    | 15.839 | 169  | 171616   | 20.485 | ng/ul  | 97       |
| 68) 4-Bromophenyl-phenylether | 16.515 | 248  | 77310    | 18.465 | ng/ul  | 93       |
| 69) Hexachlorobenzene         | 16.627 | 284  | 93941    | 19.220 | ng/ul# | 91       |
| 70) Atrazine                  | 16.792 | 200  | 72522    | 17.252 | ng/ul  | 98       |
| 71) Pentachlorophenol         | 16.980 | 266  | 51730    | 16.546 | ng/ul  | 96       |
| 72) Phenanthrene              | 17.368 | 178  | 306367   | 19.729 | ng/ul  | 98       |
| 74) Anthracene                | 17.462 | 178  | 315829   | 19.422 | ng/ul  | 97       |
| 75) 1,2,3,4-Tetrachloroben... | 13.386 | 216  | 110729   | 19.387 | ng/uL  | 97       |
| 76) Pentachlorobenzene        | 14.898 | 250  | 114011   | 19.184 | ng/uL  | 99       |
| 77) Carbazole                 | 17.739 | 167  | 232587   | 16.478 | ng/ul# | 93       |
| 78) Di-n-butylphthalate       | 18.286 | 149  | 230612   | 16.887 | ng/ul  | 98       |
| 80) Fluoranthene              | 19.380 | 202  | 358052   | 23.188 | ng/ul# | 97       |
| 82) Pyrene                    | 19.744 | 202  | 372870   | 22.754 | ng/ul# | 97       |
| 83) Butylbenzylphthalate      | 20.633 | 149  | 93363    | 19.752 | ng/ul# | 87       |
| 84) 3,3'-Dichlorobenzidine    | 21.421 | 252  | 118848   | 18.712 | ng/ul# | 99       |
| 85) Benzo(a)anthracene        | 21.486 | 228  | 362248   | 19.779 | ng/ul  | 99       |
| 86) Bis(2-ethylhexyl)phtha... | 21.397 | 149  | 127387   | 18.941 | ng/ul  | 92       |
| 87) Chrysene                  | 21.538 | 228  | 330586   | 19.501 | ng/ul  | 99       |
| 89) Di-n-octyl phthalate      | 22.321 | 149  | 231353   | 15.566 | ng/ul  | 100      |
| 90) Benzo(b)fluoranthene      | 23.174 | 252  | 444844m  | 20.503 | ng/ul  |          |
| 91) Benzo(k)fluoranthene      | 23.221 | 252  | 424905   | 19.647 | ng/ul# | 98       |
| 93) Benzo(a)pyrene            | 23.797 | 252  | 395281   | 19.673 | ng/ul# | 99       |
| 94) Indeno(1,2,3-cd)pyrene    | 26.409 | 276  | 614493   | 19.348 | ng/ul  | 99       |
| 95) Dibenzo(a,h)anthracene    | 26.421 | 278  | 512135   | 19.000 | ng/ul  | 99       |
| 96) Benzo(g,h,i)perylene      | 27.179 | 276  | 503058   | 19.515 | ng/ul# | 97       |

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



**Instrument :**

BNA\_M

**LabSampleId :**

SSTDCCC020EC

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 02/01/2023

Supervised By :mohammad ahmed 02/01/2023

