

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG092723\  
 Data File : BG059220.D  
 Acq On : 27 Sep 2023 20:56  
 Operator : MA/JU  
 Sample : SST04034  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SST040438

Quant Time: Sep 28 04:16:17 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG092723.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Sep 28 03:42:12 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/28/2023  
 Supervised By :mohammad ahmed 09/29/2023

09/28/2023  
 Supervised By :mohammad  
 ahmed

09/29/2023

| Compound                  | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------|--------|------|----------|--------|-------|----------|
| -----                     |        |      |          |        |       |          |
| Internal Standards        |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4 | 8.234  | 152  | 47509    | 20.000 | ng/u1 | 0.00     |
| 20) Naphthalene-d8        | 11.078 | 136  | 233805   | 20.000 | ng/u1 | # 0.00   |
| 38) Acenaphthene-d10      | 14.868 | 164  | 145858   | 20.000 | ng/u1 | 0.00     |
| 64) Phenanthrene-d10      | 17.617 | 188  | 320248m  | 20.000 | ng/u1 | 0.00     |
| 79) Chrysene-d12          | 21.924 | 240  | 275249   | 20.000 | ng/u1 | 0.00     |
| 88) Perylene-d12          | 25.414 | 264  | 325818   | 20.000 | ng/u1 | 0.00     |

|                               |        |     |        |        |       |      |
|-------------------------------|--------|-----|--------|--------|-------|------|
| System Monitoring Compounds   |        |     |        |        |       |      |
| 3) 1,4-Dioxane-d8             | 3.528  | 96  | 18432m | 15.047 | ng/uL | 0.00 |
| 4) Pyridine-d5                | 3.963  | 84  | 149754 | 41.317 | ng/u1 | 0.00 |
| 7) Phenol-d5                  | 7.359  | 99  | 194947 | 41.696 | ng/u1 | 0.00 |
| 9) Bis-(2-Chloroethyl)eth...  | 7.553  | 67  | 124644 | 43.155 | ng/u1 | 0.00 |
| 11) 2-Chlorophenol-d4         | 7.747  | 132 | 137815 | 40.709 | ng/u1 | 0.00 |
| 15) 4-Methylphenol-d8         | 8.928  | 113 | 154905 | 41.938 | ng/u1 | 0.00 |
| 21) Nitrobenzene-d5           | 9.433  | 128 | 72774  | 41.628 | ng/u1 | 0.00 |
| 24) 2-Nitrophenol-d4          | 10.150 | 143 | 73805  | 41.637 | ng/u1 | 0.00 |
| 28) 2,4-Dichlorophenol-d3     | 10.678 | 165 | 144608 | 42.354 | ng/u1 | 0.00 |
| 31) 4-Chloroaniline-d4        | 11.219 | 131 | 220983 | 41.470 | ng/u1 | 0.00 |
| 46) Dimethylphthalate-d6      | 14.268 | 166 | 439836 | 39.816 | ng/u1 | 0.00 |
| 49) Acenaphthylene-d8         | 14.574 | 160 | 551995 | 40.657 | ng/u1 | 0.00 |
| 54) 4-Nitrophenol-d4          | 15.062 | 143 | 78020  | 39.020 | ng/u1 | 0.00 |
| 60) Fluorene-d10              | 15.855 | 176 | 408746 | 40.210 | ng/u1 | 0.00 |
| 65) 4,6-Dinitro-2-methylph... | 15.972 | 200 | 67603m | 37.794 | ng/u1 | 0.00 |
| 73) Anthracene-d10            | 17.717 | 188 | 602205 | 41.743 | ng/u1 | 0.00 |
| 81) Pyrene-d10                | 19.991 | 212 | 662551 | 41.839 | ng/u1 | 0.00 |
| 92) Benzo(a)pyrene-d12        | 25.167 | 264 | 665667 | 42.254 | ng/u1 | 0.00 |

|                               |        |     |        |        |        |    |
|-------------------------------|--------|-----|--------|--------|--------|----|
| Target Compounds              |        |     |        | Qvalue |        |    |
| 2) 1,4-Dioxane                | 3.563  | 88  | 20629  | 14.695 | ng/uL# | 78 |
| 5) Pyridine                   | 3.986  | 79  | 154308 | 42.613 | ng/u1  | 94 |
| 6) Benzaldehyde               | 7.376  | 77  | 99907  | 42.019 | ng/u1  | 93 |
| 8) Phenol                     | 7.388  | 94  | 195360 | 40.961 | ng/u1  | 93 |
| 10) Bis(2-Chloroethyl)ether   | 7.653  | 93  | 156914 | 40.993 | ng/u1  | 94 |
| 12) 2-Chlorophenol            | 7.788  | 128 | 141513 | 40.805 | ng/u1  | 96 |
| 13) 2-Methylphenol            | 8.663  | 108 | 145050 | 40.909 | ng/u1  | 93 |
| 14) 2,2'-oxybis(1-Chloropr... | 8.740  | 45  | 351846 | 43.394 | ng/u1  | 98 |
| 16) Acetophenone              | 9.074  | 105 | 231672 | 40.537 | ng/u1  | 94 |
| 17) N-Nitroso-di-n-propyla... | 9.045  | 70  | 117845 | 40.603 | ng/u1# | 91 |
| 18) 4-Methylphenol            | 8.998  | 108 | 156612 | 41.204 | ng/u1  | 89 |
| 19) Hexachloroethane          | 9.321  | 117 | 55603  | 40.711 | ng/u1  | 97 |
| 22) Nitrobenzene              | 9.474  | 77  | 173310 | 42.533 | ng/u1  | 99 |
| 23) Isophorone                | 9.985  | 82  | 364224 | 41.937 | ng/u1  | 98 |
| 25) 2-Nitrophenol             | 10.185 | 139 | 80197  | 40.608 | ng/u1  | 95 |
| 26) 2,4-Dimethylphenol        | 10.214 | 107 | 160829 | 41.945 | ng/u1  | 92 |
| 27) Bis(2-Chloroethoxy)met... | 10.467 | 93  | 227750 | 41.604 | ng/u1  | 96 |
| 29) 2,4-Dichlorophenol        | 10.708 | 162 | 143158 | 41.453 | ng/u1  | 96 |
| 30) Naphthalene               | 11.125 | 128 | 520117 | 41.822 | ng/u1  | 97 |
| 32) 4-Chloroaniline           | 11.248 | 127 | 214222 | 40.781 | ng/u1  | 98 |
| 33) Hexachlorobutadiene       | 11.354 | 225 | 89698  | 40.456 | ng/u1  | 96 |
| 34) Caprolactam               | 12.030 | 113 | 47646m | 38.995 | ng/u1  |    |
| 35) 4-Chloro-3-methylphenol   | 12.329 | 107 | 151872 | 41.467 | ng/u1  | 93 |
| 36) 2-Methylnaphthalene       | 12.711 | 142 | 339022 | 40.812 | ng/u1  | 97 |

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 Sample : SSTD04034  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

## Instrument :

BNA\_G

## ClientSampleId :

SSTD040438

## Manual Integrations

## APPROVED

Reviewed By :Yogesh Patel 09/28/2023

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09/28/2023

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|-------------------------------|--------|------|----------|--------|--------|----------|
| 37) 1-Methylnaphthalene       | 12.929 | 142  | 339463   | 40.318 | ng/ul# | 93       |
| 39) 1,2,4,5-Tetrachloroben... | 13.058 | 216  | 170874   | 40.176 | ng/ul  | 96       |
| 40) Hexachlorocyclopentadiene | 13.011 | 237  | 113272   | 41.505 | ng/ul  | 99       |
| 41) 2,4,6-Trichlorophenol     | 13.299 | 196  | 114063   | 41.215 | ng/ul# | 88       |
| 42) 2,4,5-Trichlorophenol     | 13.375 | 196  | 116693   | 39.014 | ng/ul  | 94       |
| 43) 1,1'-Biphenyl             | 13.704 | 154  | 475701   | 40.739 | ng/ul  | 98       |
| 44) 2-Chloronaphthalene       | 13.757 | 162  | 360182   | 40.602 | ng/ul  | 97       |
| 45) 2-Nitroaniline            | 13.980 | 65   | 113307   | 41.227 | ng/ul  | 92       |
| 47) Dimethylphthalate         | 14.315 | 163  | 440527   | 38.981 | ng/ul  | 99       |
| 48) 2,6-Dinitrotoluene        | 14.456 | 165  | 84013    | 41.538 | ng/ul  | 90       |
| 50) Acenaphthylene            | 14.603 | 152  | 577899   | 39.731 | ng/ul  | 99       |
| 51) 3-Nitroaniline            | 14.797 | 138  | 88995    | 39.693 | ng/ul# | 96       |
| 52) Acenaphthene              | 14.932 | 153  | 393947   | 39.955 | ng/ul  | 95       |
| 53) 2,4-Dinitrophenol         | 14.991 | 184  | 41744    | 34.256 | ng/ul  | 90       |
| 55) 4-Nitrophenol             | 15.079 | 109  | 54242    | 40.450 | ng/ul  | 90       |
| 56) Dibenzofuran              | 15.267 | 168  | 521083   | 39.790 | ng/ul  | 98       |
| 57) 2,4-Dinitrotoluene        | 15.238 | 165  | 121133   | 41.045 | ng/ul  | 96       |
| 58) 2,3,4,6-Tetrachlorophenol | 15.473 | 232  | 108902   | 39.829 | ng/ul# | 97       |
| 59) Diethylphthalate          | 15.661 | 149  | 427543   | 38.689 | ng/ul  | 98       |
| 61) Fluorene                  | 15.914 | 166  | 438597   | 39.693 | ng/ul  | 98       |
| 62) 4-Chlorophenyl-phenyle... | 15.896 | 204  | 213779   | 38.718 | ng/ul  | 94       |
| 63) 4-Nitroaniline            | 15.961 | 138  | 82195    | 38.697 | ng/ul  | 90       |
| 66) 4,6-Dinitro-2-methylph... | 15.984 | 198  | 75773m   | 39.841 | ng/ul  |          |
| 67) N-Nitrosodiphenylamine    | 16.119 | 169  | 353997   | 41.641 | ng/ul  | 99       |
| 68) 4-Bromophenyl-phenylether | 16.795 | 248  | 125473   | 40.759 | ng/ul  | 98       |
| 69) Hexachlorobenzene         | 16.883 | 284  | 142018   | 40.250 | ng/ul  | 96       |
| 70) Atrazine                  | 17.053 | 200  | 137586   | 41.986 | ng/ul  | 97       |
| 71) Pentachlorophenol         | 17.241 | 266  | 84996m   | 37.915 | ng/ul  |          |
| 72) Phenanthrene              | 17.664 | 178  | 728655m  | 41.105 | ng/ul  |          |
| 74) Anthracene                | 17.753 | 178  | 738496   | 40.708 | ng/ul  | 98       |
| 75) 1,2,3,4-Tetrachloroben... | 13.663 | 216  | 174914   | 41.298 | ng/ul  | 98       |
| 76) Pentachlorobenzene        | 15.161 | 250  | 170698   | 43.009 | ng/ul  | 96       |
| 77) Carbazole                 | 18.029 | 167  | 615213m  | 41.060 | ng/ul  |          |
| 78) Di-n-butylphthalate       | 18.534 | 149  | 744100   | 40.560 | ng/ul  | 99       |
| 80) Fluoranthene              | 19.656 | 202  | 828530   | 41.990 | ng/ul  | 99       |
| 82) Pyrene                    | 20.020 | 202  | 859696   | 41.596 | ng/ul  | 100      |
| 83) Butylbenzylphthalate      | 20.878 | 149  | 315626   | 42.486 | ng/ul  | 98       |
| 84) 3,3'-Dichlorobenzidine    | 21.818 | 252  | 282529   | 43.068 | ng/ul  | 96       |
| 85) Benzo(a)anthracene        | 21.901 | 228  | 824730   | 41.623 | ng/ul  | 99       |
| 86) Bis(2-ethylhexyl)phtha... | 21.736 | 149  | 484499   | 43.301 | ng/ul  | 97       |
| 87) Chrysene                  | 21.971 | 228  | 777678   | 42.261 | ng/ul  | 99       |
| 89) Di-n-octyl phthalate      | 23.035 | 149  | 804266   | 41.228 | ng/ul  | 100      |
| 90) Benzo(b)fluoranthene      | 24.280 | 252  | 865666   | 43.950 | ng/ul  | 96       |
| 91) Benzo(k)fluoranthene      | 24.362 | 252  | 857982   | 42.162 | ng/ul  | 97       |
| 93) Benzo(a)pyrene            | 25.244 | 252  | 793315   | 42.071 | ng/ul  | 99       |
| 94) Indeno(1,2,3-cd)pyrene    | 29.439 | 276  | 905124m  | 41.973 | ng/ul  |          |
| 95) Dibenzo(a,h)anthracene    | 29.515 | 278  | 741137   | 42.736 | ng/ul  | 97       |
| 96) Benzo(g,h,i)perylene      | 30.720 | 276  | 721337   | 41.609 | ng/ul  | 93       |

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

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 Sample : SST04034  
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## Instrument :

BNA\_G

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SSTD040438

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