

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN081823\  
 Data File : VN078938.D  
 Acq On : 18 Aug 2023 13:12  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Aug 18 23:39:23 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N081523W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 16 02:42:02 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 08/21/2023  
 Supervised By : Mahesh Dadoda 08/21/2023

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 8.230          | 168  | 179252     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.106          | 114  | 297766     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.871         | 117  | 270778     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.794         | 152  | 126019     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.582          | 65   | 126523     | 45.360   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 90.720%  |        |          |
| 35) Dibromofluoromethane     | 8.171          | 113  | 99874      | 49.827   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 99.660%  |        |          |
| 50) Toluene-d8               | 10.571         | 98   | 369332     | 49.625   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 99.240%  |        |          |
| 62) 4-Bromofluorobenzene     | 12.853         | 95   | 127986     | 52.611   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 105.220% |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.130          | 85   | 130840     | 52.605   | ug/l   | 99       |
| 3) Chloromethane             | 2.365          | 50   | 149356     | 43.009   | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.512          | 62   | 153779     | 50.494   | ug/l   | 99       |
| 5) Bromomethane              | 2.942          | 94   | 88667      | 50.710   | ug/l   | 99       |
| 6) Chloroethane              | 3.106          | 64   | 97504      | 45.798   | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.489          | 101  | 207163     | 55.849   | ug/l   | 98       |
| 8) Diethyl Ether             | 3.965          | 74   | 71269      | 50.681   | ug/l   | 58       |
| 9) 1,1,2-Trichlorotrifluo... | 4.371          | 101  | 109141     | 55.245   | ug/l   | 99       |
| 10) Methyl Iodide            | 4.595          | 142  | 127528     | 57.695   | ug/l   | 96       |
| 11) Tert butyl alcohol       | 5.530          | 59   | 113858     | 243.260  | ug/l   | 98       |
| 12) 1,1-Dichloroethene       | 4.336          | 96   | 102386     | 53.204   | ug/l # | 79       |
| 13) Acrolein                 | 4.183          | 56   | 75808      | 326.461  | ug/l   | 98       |
| 14) Allyl chloride           | 5.024          | 41   | 178942     | 46.719   | ug/l # | 88       |
| 15) Acrylonitrile            | 5.724          | 53   | 327707     | 258.448  | ug/l   | 98       |
| 16) Acetone                  | 4.430          | 43   | 276480     | 240.227  | ug/l   | 91       |
| 17) Carbon Disulfide         | 4.712          | 76   | 307497     | 57.083   | ug/l   | 99       |
| 18) Methyl Acetate           | 5.024          | 43   | 238490     | 49.052   | ug/l # | 81       |
| 19) Methyl tert-butyl Ether  | 5.806          | 73   | 368880     | 53.213   | ug/l   | 94       |
| 20) Methylene Chloride       | 5.277          | 84   | 129519     | 52.807   | ug/l # | 81       |
| 21) trans-1,2-Dichloroethene | 5.789          | 96   | 120120     | 55.664   | ug/l # | 81       |
| 22) Diisopropyl ether        | 6.677          | 45   | 436405     | 53.859   | ug/l # | 91       |
| 23) Vinyl Acetate            | 6.606          | 43   | 1406318    | 263.594  | ug/l # | 85       |
| 24) 1,1-Dichloroethane       | 6.571          | 63   | 237029     | 53.548   | ug/l   | 98       |
| 25) 2-Butanone               | 7.488          | 43   | 457109     | 247.725  | ug/l # | 76       |
| 26) 2,2-Dichloropropane      | 7.488          | 77   | 163507     | 45.698   | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.488          | 96   | 140345     | 53.508   | ug/l   | 87       |
| 28) Bromochloromethane       | 7.818          | 49   | 124601     | 53.064   | ug/l # | 75       |
| 29) Tetrahydrofuran          | 7.841          | 42   | 315353     | 258.201  | ug/l # | 70       |
| 30) Chloroform               | 7.971          | 83   | 241828     | 54.684   | ug/l   | 94       |
| 31) Cyclohexane              | 8.265          | 56   | 181466     | 52.288   | ug/l # | 82       |
| 32) 1,1,1-Trichloroethane    | 8.177          | 97   | 205362     | 54.462   | ug/l   | 93       |
| 36) 1,1-Dichloropropene      | 8.371          | 75   | 178451     | 59.185   | ug/l   | 96       |
| 37) Ethyl Acetate            | 7.565          | 43   | 192727     | 57.130   | ug/l # | 89       |
| 38) Carbon Tetrachloride     | 8.365          | 117  | 182846     | 60.523   | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.606          | 83   | 149529     | 53.923   | ug/l # | 87       |
| 40) Benzene                  | 8.612          | 78   | 533938     | 59.912   | ug/l   | 99       |

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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N081523W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 16 02:42:02 2023  
 Response via : Initial Calibration

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 Supervised By :Mahesh Dadoda 08/21/2023

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.783  | 41   | 109223   | 59.447   | ug/l # | 80       |
| 42) 1,2-Dichloroethane        | 8.671  | 62   | 195569   | 58.738   | ug/l   | 97       |
| 43) Isopropyl Acetate         | 8.694  | 43   | 316953   | 53.156   | ug/l # | 86       |
| 44) Trichloroethene           | 9.359  | 130  | 127076   | 60.010   | ug/l   | 94       |
| 45) 1,2-Dichloropropane       | 9.629  | 63   | 140787   | 59.334   | ug/l   | 99       |
| 46) Dibromomethane            | 9.712  | 93   | 95138    | 58.457   | ug/l   | 93       |
| 47) Bromodichloromethane      | 9.894  | 83   | 193178   | 60.111   | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.682  | 41   | 154881   | 57.322   | ug/l # | 76       |
| 49) 1,4-Dioxane               | 9.694  | 88   | 52999    | 1151.586 | ug/l # | 81       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43   | 982732   | 277.885  | ug/l # | 85       |
| 52) Toluene                   | 10.635 | 92   | 326940   | 59.751   | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.841 | 75   | 200992   | 58.320   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 10.318 | 75   | 218052   | 58.094   | ug/l # | 86       |
| 55) 1,1,2-Trichloroethane     | 11.024 | 97   | 129188   | 58.884   | ug/l   | 94       |
| 56) Ethyl methacrylate        | 10.882 | 69   | 195521   | 57.491   | ug/l # | 73       |
| 57) 1,3-Dichloropropane       | 11.171 | 76   | 225604   | 57.491   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.165 | 63   | 435044   | 266.487  | ug/l   | 90       |
| 59) 2-Hexanone                | 11.200 | 43   | 715820   | 279.458  | ug/l   | 84       |
| 60) Dibromochloromethane      | 11.365 | 129  | 142465   | 61.708   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.476 | 107  | 131066   | 58.787   | ug/l   | 99       |
| 64) Tetrachloroethene         | 11.106 | 164  | 102470   | 60.344   | ug/l   | 92       |
| 65) Chlorobenzene             | 11.894 | 112  | 341412   | 59.233   | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 11.965 | 131  | 128293   | 58.897   | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.971 | 91   | 606977   | 57.908   | ug/l   | 97       |
| 68) m/p-Xylenes               | 12.076 | 106  | 465460   | 118.772  | ug/l   | 98       |
| 69) o-Xylene                  | 12.400 | 106  | 228278   | 59.880   | ug/l   | 99       |
| 70) Styrene                   | 12.418 | 104  | 378696   | 59.575   | ug/l   | 98       |
| 71) Bromoform                 | 12.582 | 173  | 97210    | 61.385   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.700 | 105  | 546511   | 52.010   | ug/l   | 100      |
| 74) N-amyl acetate            | 12.500 | 43   | 270836   | 51.064   | ug/l # | 85       |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 194554   | 51.279   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.994 | 75   | 152534m  | 50.234   | ug/l   |          |
| 77) Bromobenzene              | 12.988 | 156  | 137478   | 54.431   | ug/l   | 99       |
| 78) n-propylbenzene           | 13.041 | 91   | 634913   | 52.107   | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 13.129 | 91   | 394353   | 52.174   | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 445546   | 53.506   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.741 | 75   | 58809    | 49.476   | ug/l # | 82       |
| 82) 4-Chlorotoluene           | 13.223 | 91   | 394992   | 53.409   | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.441 | 119  | 349994   | 50.025   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.488 | 105  | 439983   | 53.362   | ug/l   | 96       |
| 85) sec-Butylbenzene          | 13.623 | 105  | 478257   | 49.671   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.735 | 119  | 390770   | 50.798   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.735 | 146  | 235168   | 54.109   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.817 | 146  | 231755   | 53.276   | ug/l   | 99       |
| 89) n-Butylbenzene            | 14.059 | 91   | 315502   | 49.837   | ug/l   | 98       |
| 90) Hexachloroethane          | 14.335 | 117  | 79300    | 51.425   | ug/l   | 89       |
| 91) 1,2-Dichlorobenzene       | 14.112 | 146  | 236519   | 54.723   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.723 | 75   | 36265    | 58.541   | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene    | 15.400 | 180  | 81719    | 53.334   | ug/l   | 96       |
| 94) Hexachlorobutadiene       | 15.506 | 225  | 41454    | 52.452   | ug/l   | 100      |
| 95) Naphthalene               | 15.647 | 128  | 254616   | 44.161   | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180  | 89175    | 53.139   | ug/l   | 96       |

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Manual Integrations  
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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

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