

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN052223\  
 Data File : VN077782.D  
 Acq On : 22 May 2023 12:18  
 Operator : JC\MD  
 Sample : VN0522WBSD01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0522WBSD01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/23/2023  
 Supervised By : Mahesh Dadoda 05/23/2023

Quant Time: May 23 04:18:35 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051523W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 16 04:07:42 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 8.230          | 168  | 393679     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.106          | 114  | 686048     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.871         | 117  | 602197     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.800         | 152  | 259414     | 50.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.588          | 65   | 286565     | 48.649   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 97.300%  |        |          |
| 35) Dibromofluoromethane     | 8.171          | 113  | 239610     | 53.560   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 107.120% |        |          |
| 50) Toluene-d8               | 10.571         | 98   | 886941     | 51.508   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 103.020% |        |          |
| 62) 4-Bromofluorobenzene     | 12.853         | 95   | 296795     | 48.803   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 97.600%  |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.130          | 85   | 77974      | 17.404   | ug/l   | 97       |
| 3) Chloromethane             | 2.371          | 50   | 75001      | 14.518   | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.524          | 62   | 92563      | 16.387   | ug/l   | 100      |
| 5) Bromomethane              | 2.971          | 94   | 71729      | 17.169   | ug/l   | 97       |
| 6) Chloroethane              | 3.136          | 64   | 61095      | 15.008   | ug/l   | 100      |
| 7) Trichlorofluoromethane    | 3.506          | 101  | 143747     | 18.260   | ug/l   | 95       |
| 8) Diethyl Ether             | 3.971          | 74   | 55020      | 19.145   | ug/l   | 87       |
| 9) 1,1,2-Trichlorotrifluo... | 4.383          | 101  | 81506      | 18.709   | ug/l   | 96       |
| 10) Methyl Iodide            | 4.595          | 142  | 102955     | 19.816   | ug/l   | 98       |
| 11) Tert butyl alcohol       | 5.524          | 59   | 72791      | 89.541   | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 4.359          | 96   | 76867      | 18.564   | ug/l   | 99       |
| 13) Acrolein                 | 4.195          | 56   | 51895      | 83.473   | ug/l   | 94       |
| 14) Allyl chloride           | 5.036          | 41   | 99620      | 16.377   | ug/l   | 95       |
| 15) Acrylonitrile            | 5.730          | 53   | 187755     | 86.449   | ug/l   | 99       |
| 16) Acetone                  | 4.436          | 43   | 155539     | 83.929   | ug/l   | 99       |
| 17) Carbon Disulfide         | 4.724          | 76   | 167359     | 15.001   | ug/l   | 99       |
| 18) Methyl Acetate           | 5.036          | 43   | 133396     | 17.158   | ug/l   | 92       |
| 19) Methyl tert-butyl Ether  | 5.806          | 73   | 279942     | 18.678   | ug/l # | 91       |
| 20) Methylene Chloride       | 5.289          | 84   | 94405      | 18.320   | ug/l   | 91       |
| 21) trans-1,2-Dichloroethene | 5.789          | 96   | 84026      | 18.066   | ug/l   | 89       |
| 22) Diisopropyl ether        | 6.683          | 45   | 254742     | 17.867   | ug/l   | 95       |
| 23) Vinyl Acetate            | 6.612          | 43   | 747379     | 84.605   | ug/l # | 89       |
| 24) 1,1-Dichloroethane       | 6.583          | 63   | 159762     | 18.290   | ug/l   | 98       |
| 25) 2-Butanone               | 7.489          | 43   | 243552     | 84.013   | ug/l # | 85       |
| 26) 2,2-Dichloropropane      | 7.500          | 77   | 140591     | 18.945   | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 7.494          | 96   | 102400     | 18.361   | ug/l   | 95       |
| 28) Bromochloromethane       | 7.824          | 49   | 62582      | 16.566   | ug/l   | 92       |
| 29) Tetrahydrofuran          | 7.847          | 42   | 153998     | 81.127   | ug/l   | 85       |
| 30) Chloroform               | 7.971          | 83   | 174002     | 18.109   | ug/l   | 98       |
| 31) Cyclohexane              | 8.259          | 56   | 132769     | 16.584   | ug/l   | 93       |
| 32) 1,1,1-Trichloroethane    | 8.177          | 97   | 154974     | 18.970   | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 8.377          | 75   | 123320     | 18.846   | ug/l   | 96       |
| 37) Ethyl Acetate            | 7.571          | 43   | 95608      | 16.393   | ug/l   | 95       |
| 38) Carbon Tetrachloride     | 8.371          | 117  | 134080     | 20.292   | ug/l   | 94       |
| 39) Methylcyclohexane        | 9.606          | 83   | 145079     | 18.110   | ug/l # | 91       |
| 40) Benzene                  | 8.612          | 78   | 369185     | 19.120   | ug/l   | 98       |

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 Sample : VN0522WBSD01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0522WBSD01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/23/2023  
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Quant Time: May 23 04:18:35 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051523W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 16 04:07:42 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.789  | 41   | 51909    | 16.713  | ug/l   | 92       |
| 42) 1,2-Dichloroethane        | 8.677  | 62   | 131386   | 18.731  | ug/l   | 97       |
| 43) Isopropyl Acetate         | 8.694  | 43   | 169475   | 17.790  | ug/l   | 95       |
| 44) Trichloroethene           | 9.359  | 130  | 99632    | 20.378  | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 9.630  | 63   | 98257    | 19.950  | ug/l   | 97       |
| 46) Dibromomethane            | 9.718  | 93   | 68031    | 19.303  | ug/l   | 94       |
| 47) Bromodichloromethane      | 9.894  | 83   | 138135   | 20.472  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.688  | 41   | 81844    | 18.121  | ug/l   | 87       |
| 49) 1,4-Dioxane               | 9.700  | 88   | 33500    | 392.703 | ug/l   | 93       |
| 51) 4-Methyl-2-Pentanone      | 10.453 | 43   | 508663   | 89.830  | ug/l   | 93       |
| 52) Toluene                   | 10.635 | 92   | 238116   | 19.808  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.841 | 75   | 139321   | 19.498  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 10.318 | 75   | 152669   | 19.389  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane     | 11.024 | 97   | 95826    | 20.076  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.882 | 69   | 136015   | 18.847  | ug/l   | 91       |
| 57) 1,3-Dichloropropane       | 11.171 | 76   | 159836   | 19.534  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.165 | 63   | 275587   | 77.621  | ug/l   | 93       |
| 59) 2-Hexanone                | 11.200 | 43   | 351616   | 83.951  | ug/l   | 92       |
| 60) Dibromochloromethane      | 11.365 | 129  | 101265   | 20.551  | ug/l   | 95       |
| 61) 1,2-Dibromoethane         | 11.477 | 107  | 93731    | 19.684  | ug/l   | 97       |
| 64) Tetrachloroethene         | 11.112 | 164  | 97196    | 23.080  | ug/l   | 97       |
| 65) Chlorobenzene             | 11.900 | 112  | 257116   | 19.695  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.965 | 131  | 97906    | 21.674  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.971 | 91   | 449668   | 19.221  | ug/l   | 98       |
| 68) m/p-Xylenes               | 12.077 | 106  | 350456   | 39.534  | ug/l   | 98       |
| 69) o-Xylene                  | 12.406 | 106  | 172222   | 19.755  | ug/l   | 100      |
| 70) Styrene                   | 12.418 | 104  | 270532   | 19.535  | ug/l   | 98       |
| 71) Bromoform                 | 12.588 | 173  | 63475    | 21.123  | ug/l # | 97       |
| 73) Isopropylbenzene          | 12.700 | 105  | 444813   | 19.892  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.500 | 43   | 135075   | 16.342  | ug/l   | 93       |
| 75) 1,1,2,2-Tetrachloroethane | 12.947 | 83   | 128427   | 18.669  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 13.000 | 75   | 113381m  | 17.452  | ug/l   |          |
| 77) Bromobenzene              | 12.988 | 156  | 99690    | 19.535  | ug/l   | 96       |
| 78) n-propylbenzene           | 13.041 | 91   | 504778   | 19.147  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 13.129 | 91   | 307640   | 19.556  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 13.182 | 105  | 372840   | 19.838  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.747 | 75   | 33268    | 16.369  | ug/l # | 79       |
| 82) 4-Chlorotoluene           | 13.229 | 91   | 292100   | 18.662  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.447 | 119  | 328645   | 20.031  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.488 | 105  | 377597   | 20.429  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.623 | 105  | 465689   | 19.972  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.735 | 119  | 377916   | 20.330  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.735 | 146  | 175858   | 18.634  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.823 | 146  | 174192   | 18.601  | ug/l   | 98       |
| 89) n-Butylbenzene            | 14.065 | 91   | 312336   | 18.267  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.335 | 117  | 63493    | 20.791  | ug/l   | 89       |
| 91) 1,2-Dichlorobenzene       | 14.112 | 146  | 180302   | 20.451  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.729 | 75   | 21752    | 16.332  | ug/l   | 96       |
| 93) 1,2,4-Trichlorobenzene    | 15.400 | 180  | 77200    | 14.984  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.506 | 225  | 42005    | 19.636  | ug/l   | 98       |
| 95) Naphthalene               | 15.647 | 128  | 216725   | 12.221  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.847 | 180  | 80108    | 15.881  | ug/l   | 97       |

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Sample : VN0522WBSD01  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
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Manual Integrations  
APPROVED

Reviewed By :John Carlone 05/23/2023  
Supervised By :Mahesh Dadoda 05/23/2023

Quant Time: May 23 04:18:35 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051523W.M  
Quant Title : SW846 8260  
QLast Update : Tue May 16 04:07:42 2023  
Response via : Initial Calibration

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

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

