

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN031825\  
 Data File : VN085998.D  
 Acq On : 18 Mar 2025 12:32  
 Operator : JC\MD  
 Sample : VSTDIC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC020

Quant Time: Mar 19 02:54:15 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N031825W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 19 02:30:27 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 03/19/2025  
 Supervised By : Mahesh Dadoda 03/19/2025

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 8.224          | 168  | 180263     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.100          | 114  | 284537     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.865         | 117  | 251681     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.788         | 152  | 125230     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.577          | 65   | 48218      | 19.534   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 39.060%# |        |          |
| 35) Dibromofluoromethane     | 8.165          | 113  | 39531      | 19.905   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 39.800%# |        |          |
| 50) Toluene-d8               | 10.565         | 98   | 142597     | 19.783   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 39.560%# |        |          |
| 62) 4-Bromofluorobenzene     | 12.847         | 95   | 50895      | 19.799   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 77 - 121 |      | Recovery = | 39.600%# |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.124          | 85   | 43250      | 18.110   | ug/l   | 96       |
| 3) Chloromethane             | 2.359          | 50   | 37051      | 17.697   | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.506          | 62   | 39037      | 18.236   | ug/l   | 98       |
| 5) Bromomethane              | 2.942          | 94   | 27158      | 18.625   | ug/l   | 97       |
| 6) Chloroethane              | 3.106          | 64   | 24077      | 17.829   | ug/l # | 86       |
| 7) Trichlorofluoromethane    | 3.495          | 101  | 69126      | 17.963   | ug/l   | 99       |
| 8) Diethyl Ether             | 3.959          | 74   | 22721      | 19.287   | ug/l   | 98       |
| 9) 1,1,2-Trichlorotrifluo... | 4.365          | 101  | 36929      | 18.056   | ug/l   | 99       |
| 10) Methyl Iodide            | 4.583          | 142  | 49138      | 18.439   | ug/l   | 91       |
| 11) Tert butyl alcohol       | 5.518          | 59   | 32886      | 94.099   | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 4.336          | 96   | 34693      | 18.786   | ug/l   | 95       |
| 13) Acrolein                 | 4.177          | 56   | 37669      | 101.056  | ug/l   | 99       |
| 14) Allyl chloride           | 5.018          | 41   | 41227      | 17.894   | ug/l   | 99       |
| 15) Acrylonitrile            | 5.718          | 53   | 88238      | 95.601   | ug/l   | 98       |
| 16) Acetone                  | 4.424          | 43   | 64377      | 85.367   | ug/l   | 97       |
| 17) Carbon Disulfide         | 4.706          | 76   | 105800     | 17.420   | ug/l   | 100      |
| 18) Methyl Acetate           | 5.024          | 43   | 31321      | 16.787   | ug/l   | 98       |
| 19) Methyl tert-butyl Ether  | 5.794          | 73   | 113784     | 18.802   | ug/l   | 96       |
| 20) Methylene Chloride       | 5.277          | 84   | 39757      | 18.021   | ug/l   | 93       |
| 21) trans-1,2-Dichloroethene | 5.789          | 96   | 37536      | 18.598   | ug/l   | 98       |
| 22) Diisopropyl ether        | 6.671          | 45   | 94961      | 19.341   | ug/l   | 94       |
| 23) Vinyl Acetate            | 6.600          | 43   | 369355m    | 99.232   | ug/l   |          |
| 24) 1,1-Dichloroethane       | 6.565          | 63   | 65460      | 18.131   | ug/l   | 100      |
| 25) 2-Butanone               | 7.483          | 43   | 99742      | 91.662   | ug/l   | 96       |
| 26) 2,2-Dichloropropane      | 7.488          | 77   | 63430      | 18.249   | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.483          | 96   | 42598      | 18.573   | ug/l   | 98       |
| 28) Bromochloromethane       | 7.812          | 49   | 28688      | 18.755   | ug/l   | 99       |
| 29) Tetrahydrofuran          | 7.841          | 42   | 65915      | 98.119   | ug/l   | 99       |
| 30) Chloroform               | 7.965          | 83   | 72867      | 18.259   | ug/l   | 97       |
| 31) Cyclohexane              | 8.253          | 56   | 55179      | 17.940   | ug/l   | 95       |
| 32) 1,1,1-Trichloroethane    | 8.171          | 97   | 69390      | 18.369   | ug/l   | 95       |
| 36) 1,1-Dichloropropene      | 8.371          | 75   | 47900      | 18.317   | ug/l   | 100      |
| 37) Ethyl Acetate            | 7.559          | 43   | 41696      | 18.899   | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 8.353          | 117  | 63404      | 18.440   | ug/l   | 92       |
| 39) Methylcyclohexane        | 9.600          | 83   | 47633      | 18.359   | ug/l   | 94       |
| 40) Benzene                  | 8.606          | 78   | 153432     | 18.690   | ug/l   | 100      |

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 Sample : VSTDICC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC020

Manual Integrations  
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Reviewed By : John Carlone 03/19/2025  
 Supervised By : Mahesh Dadoda 03/19/2025

Quant Time: Mar 19 02:54:15 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N031825W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 19 02:30:27 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.777  | 41   | 21324    | 20.242  | ug/l   | 96       |
| 42) 1,2-Dichloroethane        | 8.671  | 62   | 52637    | 18.401  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.688  | 43   | 90251m   | 18.838  | ug/l   |          |
| 44) Trichloroethene           | 9.353  | 130  | 38098    | 17.906  | ug/l   | 94       |
| 45) 1,2-Dichloropropane       | 9.618  | 63   | 36309    | 19.446  | ug/l   | 98       |
| 46) Dibromomethane            | 9.706  | 93   | 26612    | 18.123  | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.888  | 83   | 57646    | 18.784  | ug/l   | 96       |
| 48) Methyl methacrylate       | 9.677  | 41   | 30533    | 19.354  | ug/l   | 99       |
| 49) 1,4-Dioxane               | 9.694  | 88   | 14060    | 377.006 | ug/l   | 90       |
| 51) 4-Methyl-2-Pentanone      | 10.441 | 43   | 209460   | 99.344  | ug/l   | 98       |
| 52) Toluene                   | 10.629 | 92   | 98133    | 19.476  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.835 | 75   | 57384    | 19.253  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene   | 10.312 | 75   | 60620    | 19.278  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 11.012 | 97   | 35992    | 18.716  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.871 | 69   | 52684    | 20.039  | ug/l   | 99       |
| 57) 1,3-Dichloropropane       | 11.159 | 76   | 61369    | 18.788  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63   | 66141    | 69.674  | ug/l   | 99       |
| 59) 2-Hexanone                | 11.194 | 43   | 152912   | 99.554  | ug/l   | 98       |
| 60) Dibromochloromethane      | 11.359 | 129  | 46407    | 18.701  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.465 | 107  | 37071    | 18.777  | ug/l   | 97       |
| 64) Tetrachloroethene         | 11.100 | 164  | 37287    | 18.572  | ug/l   | 95       |
| 65) Chlorobenzene             | 11.888 | 112  | 107742   | 18.708  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131  | 39102    | 18.264  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.959 | 91   | 175592   | 19.060  | ug/l   | 97       |
| 68) m/p-Xylenes               | 12.071 | 106  | 141029   | 38.948  | ug/l   | 99       |
| 69) o-Xylene                  | 12.394 | 106  | 65978    | 19.853  | ug/l   | 99       |
| 70) Styrene                   | 12.406 | 104  | 112279   | 19.780  | ug/l   | 99       |
| 71) Bromoform                 | 12.576 | 173  | 33086    | 18.487  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.694 | 105  | 162838   | 19.041  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.494 | 43   | 56163    | 19.630  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83   | 52144    | 18.023  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.988 | 75   | 57493m   | 20.137  | ug/l   |          |
| 77) Bromobenzene              | 12.976 | 156  | 43969    | 18.439  | ug/l   | 99       |
| 78) n-propylbenzene           | 13.035 | 91   | 189068   | 19.524  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 13.123 | 91   | 123854   | 19.256  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 13.170 | 105  | 142528   | 19.740  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75   | 21026    | 19.827  | ug/l   | 94       |
| 82) 4-Chlorotoluene           | 13.218 | 91   | 128159   | 19.376  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.435 | 119  | 114669   | 18.570  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.482 | 105  | 144557   | 19.850  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.612 | 105  | 158970   | 19.734  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.729 | 119  | 133733   | 19.611  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.729 | 146  | 80845    | 18.809  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.812 | 146  | 81175    | 17.975  | ug/l   | 99       |
| 89) n-Butylbenzene            | 14.053 | 91   | 103559   | 18.649  | ug/l   | 98       |
| 90) Hexachloroethane          | 14.329 | 117  | 27141    | 17.249  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 14.106 | 146  | 76225    | 17.839  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.717 | 75   | 10795    | 18.692  | ug/l   | 93       |
| 93) 1,2,4-Trichlorobenzene    | 15.388 | 180  | 39028    | 18.166  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.494 | 225  | 22741    | 18.244  | ug/l   | 98       |
| 95) Naphthalene               | 15.635 | 128  | 115493   | 18.564  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.835 | 180  | 38684    | 18.975  | ug/l   | 98       |

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Response via : Initial Calibration

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

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

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