

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN061825\  
 Data File : VN087077.D  
 Acq On : 18 Jun 2025 12:07  
 Operator : JC\MD  
 Sample : VN0618WBS01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0618WBS01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 06/19/2025  
 Supervised By : Mahesh Dadoda 06/21/2025

Quant Time: Jun 19 01:24:46 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N060625W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 07 02:12:50 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 8.230          | 168  | 213664     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.106          | 114  | 379722     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.865         | 117  | 333122     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.788         | 152  | 167760     | 50.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.582          | 65   | 138039     | 48.253   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 96.500%  |        |          |
| 35) Dibromofluoromethane     | 8.177          | 113  | 119246     | 52.991   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 105.980% |        |          |
| 50) Toluene-d8               | 10.565         | 98   | 443603     | 49.796   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 99.600%  |        |          |
| 62) 4-Bromofluorobenzene     | 12.847         | 95   | 166905     | 50.428   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 77 - 121 |      | Recovery = | 100.860% |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.154          | 85   | 41847      | 19.643   | ug/l   | 97       |
| 3) Chloromethane             | 2.395          | 50   | 46566      | 16.927   | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.553          | 62   | 57713      | 20.337   | ug/l   | 93       |
| 5) Bromomethane              | 3.001          | 94   | 29472      | 18.559   | ug/l   | 94       |
| 6) Chloroethane              | 3.159          | 64   | 37444      | 20.427   | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.530          | 101  | 75345      | 20.321   | ug/l   | 98       |
| 8) Diethyl Ether             | 3.989          | 74   | 31110      | 19.258   | ug/l   | 95       |
| 9) 1,1,2-Trichlorotrifluo... | 4.406          | 101  | 45613      | 19.581   | ug/l   | 99       |
| 10) Methyl Iodide            | 4.612          | 142  | 28628      | 9.481    | ug/l   | 96       |
| 11) Tert butyl alcohol       | 5.536          | 59   | 67795      | 87.339   | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 4.371          | 96   | 47748      | 20.078   | ug/l   | 94       |
| 13) Acrolein                 | 4.206          | 56   | 13456      | 54.765   | ug/l   | 98       |
| 14) Allyl chloride           | 5.053          | 41   | 68843      | 17.455   | ug/l   | 95       |
| 15) Acrylonitrile            | 5.736          | 53   | 165705     | 91.332   | ug/l   | 99       |
| 16) Acetone                  | 4.447          | 43   | 125781     | 82.911   | ug/l   | 95       |
| 17) Carbon Disulfide         | 4.736          | 76   | 135478     | 20.595   | ug/l   | 100      |
| 18) Methyl Acetate           | 5.053          | 43   | 68403      | 15.472   | ug/l   | 97       |
| 19) Methyl tert-butyl Ether  | 5.812          | 73   | 160700     | 18.663   | ug/l   | 99       |
| 20) Methylene Chloride       | 5.300          | 84   | 53901      | 18.978   | ug/l   | 97       |
| 21) trans-1,2-Dichloroethene | 5.812          | 96   | 50387      | 19.044   | ug/l   | 96       |
| 22) Diisopropyl ether        | 6.689          | 45   | 150595     | 18.114   | ug/l   | 98       |
| 23) Vinyl Acetate            | 6.618          | 43   | 654255     | 93.144   | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 6.589          | 63   | 91217      | 19.066   | ug/l   | 98       |
| 25) 2-Butanone               | 7.494          | 43   | 210395     | 85.320   | ug/l   | 92       |
| 26) 2,2-Dichloropropane      | 7.500          | 77   | 78044      | 20.970   | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.500          | 96   | 60950      | 19.262   | ug/l   | 98       |
| 28) Bromochloromethane       | 7.818          | 49   | 40126      | 17.058   | ug/l   | 91       |
| 29) Tetrahydrofuran          | 7.847          | 42   | 139346     | 86.745   | ug/l   | 95       |
| 30) Chloroform               | 7.977          | 83   | 90256      | 18.890   | ug/l   | 99       |
| 31) Cyclohexane              | 8.265          | 56   | 82406      | 17.761   | ug/l   | 95       |
| 32) 1,1,1-Trichloroethane    | 8.177          | 97   | 77358      | 19.036   | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 8.377          | 75   | 66753      | 19.907   | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.571          | 43   | 76370      | 17.891   | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 8.371          | 117  | 65790      | 19.984   | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.606          | 83   | 79083      | 17.214   | ug/l   | 95       |
| 40) Benzene                  | 8.612          | 78   | 218047     | 19.886   | ug/l   | 100      |

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 ALS Vial : 5 Sample Multiplier: 1

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 MSVOA\_N  
 ClientSampleId :  
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Quant Time: Jun 19 01:24:46 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N060625W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 07 02:12:50 2025  
 Response via : Initial Calibration

Manual Integrations  
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Reviewed By : John Carlone 06/19/2025  
 Supervised By : Mahesh Dadoda 06/21/2025

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.788  | 41   | 41526    | 17.322  | ug/l   | 94       |
| 42) 1,2-Dichloroethane        | 8.677  | 62   | 63897    | 19.212  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.694  | 43   | 121654   | 17.757  | ug/l   | 97       |
| 44) Trichloroethene           | 9.359  | 130  | 52194    | 20.074  | ug/l   | 97       |
| 45) 1,2-Dichloropropane       | 9.624  | 63   | 52345    | 19.622  | ug/l   | 98       |
| 46) Dibromomethane            | 9.712  | 93   | 36267    | 20.468  | ug/l   | 99       |
| 47) Bromodichloromethane      | 9.888  | 83   | 70694    | 19.391  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.682  | 41   | 54263    | 17.208  | ug/l   | 95       |
| 49) 1,4-Dioxane               | 9.700  | 88   | 22022    | 383.882 | ug/l # | 98       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43   | 375290   | 90.991  | ug/l   | 98       |
| 52) Toluene                   | 10.629 | 92   | 133714   | 19.954  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.835 | 75   | 78148    | 19.170  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 10.312 | 75   | 85848    | 19.682  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 11.018 | 97   | 50818    | 19.709  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.882 | 69   | 78597    | 19.138  | ug/l # | 91       |
| 57) 1,3-Dichloropropane       | 11.165 | 76   | 86921    | 19.433  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63   | 227303   | 92.795  | ug/l   | 97       |
| 59) 2-Hexanone                | 11.206 | 43   | 222844   | 83.880  | ug/l   | 91       |
| 60) Dibromochloromethane      | 11.359 | 129  | 54446    | 20.267  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.471 | 107  | 53326    | 20.177  | ug/l   | 99       |
| 64) Tetrachloroethene         | 11.106 | 164  | 41643    | 19.753  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.894 | 112  | 147922   | 20.133  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131  | 47569    | 20.142  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.965 | 91   | 242612   | 19.171  | ug/l   | 99       |
| 68) m/p-Xylenes               | 12.071 | 106  | 192188   | 39.672  | ug/l   | 99       |
| 69) o-Xylene                  | 12.394 | 106  | 90763    | 19.562  | ug/l   | 98       |
| 70) Styrene                   | 12.412 | 104  | 156838   | 19.754  | ug/l   | 100      |
| 71) Bromoform                 | 12.576 | 173  | 36740    | 20.995  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.694 | 105  | 225091   | 18.418  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.535 | 43   | 76165m   | 17.834  | ug/l   |          |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83   | 81187    | 19.609  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 12.994 | 75   | 68554m   | 17.191  | ug/l   |          |
| 77) Bromobenzene              | 12.976 | 156  | 55698    | 19.872  | ug/l   | 98       |
| 78) n-propylbenzene           | 13.035 | 91   | 273130   | 18.390  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 13.123 | 91   | 162268   | 18.218  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 13.170 | 105  | 185876   | 18.421  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75   | 31478    | 18.171  | ug/l   | 97       |
| 82) 4-Chlorotoluene           | 13.217 | 91   | 171133   | 18.988  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.435 | 119  | 157194   | 17.019  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.482 | 105  | 188377   | 18.618  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.612 | 105  | 228942   | 17.068  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.729 | 119  | 192435   | 17.356  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.729 | 146  | 106339   | 19.284  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.812 | 146  | 111040   | 19.750  | ug/l   | 99       |
| 89) n-Butylbenzene            | 14.053 | 91   | 170611   | 15.886  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.329 | 117  | 33657    | 17.908  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 14.106 | 146  | 102566   | 19.360  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.717 | 75   | 17659    | 17.834  | ug/l   | 97       |
| 93) 1,2,4-Trichlorobenzene    | 15.388 | 180  | 56770    | 16.781  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.500 | 225  | 18108    | 14.367  | ug/l   | 99       |
| 95) Naphthalene               | 15.635 | 128  | 217923   | 17.306  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.835 | 180  | 54686    | 16.270  | ug/l   | 99       |

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APPROVED

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Quant Time: Jun 19 01:24:46 2025  
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Quant Title : SW846 8260  
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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

