

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN070825\  
 Data File : VN087295.D  
 Acq On : 08 Jul 2025 12:37  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 07/09/2025  
 Supervised By : Mahesh Dadoda 07/09/2025

Quant Time: Jul 09 01:30:23 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N063025W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 01 03:15:00 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 8.230          | 168  | 231416              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.106          | 114  | 368472              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.865         | 117  | 365773              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.788         | 152  | 228701              | 50.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.582          | 65   | 145354              | 50.046  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 100.100% |         |        |          |
| 35) Dibromofluoromethane     | 8.171          | 113  | 124584              | 52.804  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 105.600% |         |        |          |
| 50) Toluene-d8               | 10.565         | 98   | 470499              | 51.162  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 102.320% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.847         | 95   | 186499              | 56.997  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 77 - 121 |      | Recovery = 114.000% |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.153          | 85   | 131336              | 58.318  | ug/l   | 99       |
| 3) Chloromethane             | 2.395          | 50   | 107578              | 58.827  | ug/l   | 94       |
| 4) Vinyl Chloride            | 2.553          | 62   | 130987              | 58.261  | ug/l   | 97       |
| 5) Bromomethane              | 2.983          | 94   | 107142              | 52.223  | ug/l   | 98       |
| 6) Chloroethane              | 3.153          | 64   | 90583               | 50.865  | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 3.530          | 101  | 190914              | 48.936  | ug/l   | 96       |
| 8) Diethyl Ether             | 3.983          | 74   | 67695               | 54.373  | ug/l   | 98       |
| 9) 1,1,2-Trichlorotrifluo... | 4.400          | 101  | 112060              | 49.474  | ug/l   | 98       |
| 10) Methyl Iodide            | 4.618          | 142  | 138430              | 61.592  | ug/l   | 97       |
| 11) Tert butyl alcohol       | 5.536          | 59   | 132416              | 250.160 | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 4.371          | 96   | 107073              | 49.759  | ug/l   | 97       |
| 13) Acrolein                 | 4.200          | 56   | 115527              | 315.116 | ug/l   | 98       |
| 14) Allyl chloride           | 5.047          | 41   | 128697              | 48.801  | ug/l   | 98       |
| 15) Acrylonitrile            | 5.730          | 53   | 329523              | 250.057 | ug/l   | 100      |
| 16) Acetone                  | 4.447          | 43   | 330254              | 297.419 | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.736          | 76   | 293634              | 45.482  | ug/l   | 97       |
| 18) Methyl Acetate           | 5.047          | 43   | 138697              | 54.562  | ug/l   | 100      |
| 19) Methyl tert-butyl Ether  | 5.818          | 73   | 391254              | 51.880  | ug/l   | 99       |
| 20) Methylene Chloride       | 5.294          | 84   | 122856              | 49.945  | ug/l   | 99       |
| 21) trans-1,2-Dichloroethene | 5.806          | 96   | 122672              | 47.179  | ug/l   | 97       |
| 22) Diisopropyl ether        | 6.683          | 45   | 312505              | 49.493  | ug/l   | 97       |
| 23) Vinyl Acetate            | 6.618          | 43   | 1471418             | 251.978 | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.583          | 63   | 203387              | 49.164  | ug/l   | 98       |
| 25) 2-Butanone               | 7.488          | 43   | 460741              | 265.514 | ug/l   | 100      |
| 26) 2,2-Dichloropropane      | 7.500          | 77   | 197991              | 50.015  | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.500          | 96   | 148674              | 49.511  | ug/l   | 100      |
| 28) Bromochloromethane       | 7.824          | 49   | 92029               | 50.399  | ug/l   | 97       |
| 29) Tetrahydrofuran          | 7.847          | 42   | 291677              | 260.844 | ug/l   | 99       |
| 30) Chloroform               | 7.977          | 83   | 232477              | 50.700  | ug/l   | 100      |
| 31) Cyclohexane              | 8.265          | 56   | 165197              | 41.764  | ug/l   | 91       |
| 32) 1,1,1-Trichloroethane    | 8.177          | 97   | 209618              | 49.087  | ug/l   | 95       |
| 36) 1,1-Dichloropropene      | 8.377          | 75   | 158248              | 49.322  | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.565          | 43   | 180347              | 52.289  | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 8.371          | 117  | 189978              | 52.255  | ug/l   | 96       |
| 39) Methylcyclohexane        | 9.600          | 83   | 184496              | 48.286  | ug/l   | 99       |
| 40) Benzene                  | 8.612          | 78   | 497701              | 50.070  | ug/l   | 99       |

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 ALS Vial : 2 Sample Multiplier: 1

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 Quant Title : SW846 8260  
 QLast Update : Tue Jul 01 03:15:00 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.783  | 41   | 85659    | 51.943   | ug/l   | 98       |
| 42) 1,2-Dichloroethane        | 8.677  | 62   | 175315   | 53.035   | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.694  | 43   | 283127   | 52.933   | ug/l   | 99       |
| 44) Trichloroethene           | 9.359  | 130  | 131829   | 49.912   | ug/l   | 97       |
| 45) 1,2-Dichloropropane       | 9.624  | 63   | 118374   | 54.619   | ug/l   | 93       |
| 46) Dibromomethane            | 9.712  | 93   | 99651    | 54.049   | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.888  | 83   | 185691   | 52.808   | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.682  | 41   | 121461   | 53.879   | ug/l   | 98       |
| 49) 1,4-Dioxane               | 9.700  | 88   | 47270    | 1006.641 | ug/l # | 96       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43   | 919010   | 280.815  | ug/l   | 98       |
| 52) Toluene                   | 10.629 | 92   | 343443   | 52.684   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.835 | 75   | 201815   | 53.510   | ug/l   | 95       |
| 54) cis-1,3-Dichloropropene   | 10.312 | 75   | 205354   | 53.441   | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 11.018 | 97   | 133807   | 54.336   | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.876 | 69   | 190432   | 52.782   | ug/l   | 99       |
| 57) 1,3-Dichloropropane       | 11.165 | 76   | 220346   | 54.823   | ug/l   | 97       |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63   | 523216   | 274.391  | ug/l   | 99       |
| 59) 2-Hexanone                | 11.200 | 43   | 638317   | 272.295  | ug/l   | 98       |
| 60) Dibromochloromethane      | 11.359 | 129  | 166889   | 57.489   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.471 | 107  | 146495   | 55.303   | ug/l   | 97       |
| 64) Tetrachloroethene         | 11.106 | 164  | 119723   | 49.091   | ug/l   | 96       |
| 65) Chlorobenzene             | 11.888 | 112  | 418292   | 50.965   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131  | 148227   | 52.303   | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.965 | 91   | 682945   | 51.423   | ug/l   | 99       |
| 68) m/p-Xylenes               | 12.070 | 106  | 566705   | 106.802  | ug/l   | 97       |
| 69) o-Xylene                  | 12.394 | 106  | 267077   | 53.807   | ug/l   | 97       |
| 70) Styrene                   | 12.412 | 104  | 464405   | 55.054   | ug/l   | 99       |
| 71) Bromoform                 | 12.576 | 173  | 126981   | 58.078   | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.694 | 105  | 699716   | 47.483   | ug/l   | 100      |
| 74) N-amyl acetate            | 12.518 | 43   | 228431m  | 47.138   | ug/l   |          |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83   | 236605   | 48.813   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.994 | 75   | 201144m  | 46.239   | ug/l   |          |
| 77) Bromobenzene              | 12.976 | 156  | 184740   | 48.025   | ug/l   | 96       |
| 78) n-propylbenzene           | 13.035 | 91   | 858767   | 48.245   | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 13.123 | 91   | 503494   | 47.528   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 13.170 | 105  | 611421   | 49.639   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75   | 88731    | 47.912   | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 13.217 | 91   | 544384   | 49.090   | ug/l   | 97       |
| 83) tert-Butylbenzene         | 13.435 | 119  | 540634   | 50.098   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.482 | 105  | 653002   | 52.923   | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.612 | 105  | 782550   | 51.158   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.729 | 119  | 678777   | 51.624   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.729 | 146  | 387407   | 50.571   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.812 | 146  | 383160   | 47.902   | ug/l   | 99       |
| 89) n-Butylbenzene            | 14.053 | 91   | 589945   | 50.960   | ug/l   | 99       |
| 90) Hexachloroethane          | 14.329 | 117  | 123515   | 50.750   | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene       | 14.106 | 146  | 361120   | 50.404   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.717 | 75   | 58565    | 50.277   | ug/l   | 94       |
| 93) 1,2,4-Trichlorobenzene    | 15.388 | 180  | 200711   | 47.374   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.500 | 225  | 59201    | 43.988   | ug/l   | 96       |
| 95) Naphthalene               | 15.635 | 128  | 735644   | 50.187   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.835 | 180  | 196618   | 47.635   | ug/l   | 99       |

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ALS Vial : 2 Sample Multiplier: 1

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Manual Integrations  
APPROVED

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Quant Time: Jul 09 01:30:23 2025  
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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

