

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN043025\  
 Data File : VN086449.D  
 Acq On : 30 Apr 2025 20:19  
 Operator : JC\MD  
 Sample : VSTDC0050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDC0050EC

Quant Time: May 01 01:37:37 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N041525W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 16 04:19:23 2025  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/02/2025  
 Supervised By : Semsettin Yesilyurt 05/05/2025

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 8.224          | 168  | 177881     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.100          | 114  | 330999     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.865         | 117  | 309904     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.788         | 152  | 144778     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.577          | 65   | 125927     | 48.820   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 97.640%  |        |          |
| 35) Dibromofluoromethane     | 8.165          | 113  | 73914      | 48.115   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 96.220%  |        |          |
| 50) Toluene-d8               | 10.565         | 98   | 409129     | 49.832   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 99.660%  |        |          |
| 62) 4-Bromofluorobenzene     | 12.847         | 95   | 149776     | 50.015   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 77 - 121 |      | Recovery = | 100.040% |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.124          | 85   | 93171      | 44.185   | ug/l   | 100      |
| 3) Chloromethane             | 2.360          | 50   | 128238     | 41.845   | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.512          | 62   | 128589     | 43.970   | ug/l   | 99       |
| 5) Bromomethane              | 2.948          | 94   | 70229      | 53.388   | ug/l   | 99       |
| 6) Chloroethane              | 3.112          | 64   | 88599      | 45.267   | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.495          | 101  | 148360     | 45.799   | ug/l   | 96       |
| 8) Diethyl Ether             | 3.959          | 74   | 61444      | 43.448   | ug/l   | 90       |
| 9) 1,1,2-Trichlorotrifluo... | 4.365          | 101  | 87713      | 44.759   | ug/l   | 98       |
| 10) Methyl Iodide            | 4.589          | 142  | 118371     | 54.942   | ug/l   | 98       |
| 11) Tert butyl alcohol       | 5.518          | 59   | 104060     | 221.103  | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 4.342          | 96   | 92963      | 44.403   | ug/l   | 100      |
| 13) Acrolein                 | 4.177          | 56   | 43810      | 196.392  | ug/l   | 98       |
| 14) Allyl chloride           | 5.024          | 41   | 131761     | 35.402   | ug/l   | 91       |
| 15) Acrylonitrile            | 5.718          | 53   | 262190     | 225.357  | ug/l   | 100      |
| 16) Acetone                  | 4.424          | 43   | 215624     | 241.588  | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.712          | 76   | 241927     | 38.592   | ug/l   | 99       |
| 18) Methyl Acetate           | 5.024          | 43   | 119451     | 38.579   | ug/l   | 98       |
| 19) Methyl tert-butyl Ether  | 5.795          | 73   | 336395     | 43.710   | ug/l   | 100      |
| 20) Methylene Chloride       | 5.271          | 84   | 109995     | 46.127   | ug/l   | 95       |
| 21) trans-1,2-Dichloroethene | 5.789          | 96   | 99854      | 45.619   | ug/l   | 95       |
| 22) Diisopropyl ether        | 6.671          | 45   | 338778     | 41.843   | ug/l   | 98       |
| 23) Vinyl Acetate            | 6.600          | 43   | 1202328    | 212.434  | ug/l   | 96       |
| 24) 1,1-Dichloroethane       | 6.565          | 63   | 190944     | 44.698   | ug/l   | 99       |
| 25) 2-Butanone               | 7.483          | 43   | 348093     | 216.804  | ug/l   | 97       |
| 26) 2,2-Dichloropropane      | 7.489          | 77   | 123324     | 32.243   | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 7.483          | 96   | 124938     | 45.988   | ug/l   | 92       |
| 28) Bromochloromethane       | 7.812          | 49   | 79013      | 43.622   | ug/l   | 91       |
| 29) Tetrahydrofuran          | 7.836          | 42   | 229088     | 213.373  | ug/l   | 96       |
| 30) Chloroform               | 7.965          | 83   | 195239     | 46.525   | ug/l   | 99       |
| 31) Cyclohexane              | 8.253          | 56   | 170570     | 40.804   | ug/l   | 99       |
| 32) 1,1,1-Trichloroethane    | 8.165          | 97   | 169518     | 47.221   | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 8.371          | 75   | 139738     | 45.542   | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.559          | 43   | 137364     | 42.523   | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 8.359          | 117  | 141099     | 48.288   | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.594          | 83   | 157072     | 43.068   | ug/l   | 99       |
| 40) Benzene                  | 8.600          | 78   | 450459     | 45.821   | ug/l   | 99       |

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 Sample : VSTDC0050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDC0050EC

Quant Time: May 01 01:37:37 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N041525W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 16 04:19:23 2025  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :John Carlone 05/02/2025  
 Supervised By :Semsettin Yesilyurt 05/05/2025

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.777  | 41   | 75555    | 40.356  | ug/l   | 92       |
| 42) 1,2-Dichloroethane        | 8.671  | 62   | 148426   | 47.345  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.683  | 43   | 272546   | 46.970  | ug/l   | 99       |
| 44) Trichloroethene           | 9.347  | 130  | 107598   | 46.178  | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 9.618  | 63   | 108664   | 45.156  | ug/l   | 99       |
| 46) Dibromomethane            | 9.706  | 93   | 75255    | 49.082  | ug/l   | 96       |
| 47) Bromodichloromethane      | 9.888  | 83   | 157163   | 47.460  | ug/l   | 96       |
| 48) Methyl methacrylate       | 9.677  | 41   | 120232   | 42.383  | ug/l   | 94       |
| 49) 1,4-Dioxane               | 9.694  | 88   | 47498    | 984.354 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone      | 10.441 | 43   | 758779   | 229.386 | ug/l   | 99       |
| 52) Toluene                   | 10.630 | 92   | 296427   | 48.324  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.830 | 75   | 168783   | 45.660  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 10.312 | 75   | 173738   | 42.791  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 11.012 | 97   | 105830   | 47.952  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.871 | 69   | 187400   | 46.194  | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 11.159 | 76   | 189006   | 48.268  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63   | 414072   | 215.047 | ug/l   | 97       |
| 59) 2-Hexanone                | 11.194 | 43   | 570028   | 232.328 | ug/l   | 99       |
| 60) Dibromochloromethane      | 11.353 | 129  | 120037   | 49.530  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.465 | 107  | 111860   | 50.231  | ug/l   | 100      |
| 64) Tetrachloroethene         | 11.100 | 164  | 100505   | 42.162  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.888 | 112  | 317597   | 45.922  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131  | 107332   | 47.043  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.959 | 91   | 573659   | 45.966  | ug/l   | 99       |
| 68) m/p-Xylenes               | 12.071 | 106  | 441570   | 94.428  | ug/l   | 99       |
| 69) o-Xylene                  | 12.394 | 106  | 217737   | 47.083  | ug/l   | 99       |
| 70) Styrene                   | 12.406 | 104  | 371865   | 48.260  | ug/l   | 99       |
| 71) Bromoform                 | 12.576 | 173  | 83730    | 48.743  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.694 | 105  | 542966   | 45.846  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.488 | 43   | 245237   | 41.595  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83   | 163619   | 48.049  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.988 | 75   | 153606m  | 44.960  | ug/l   |          |
| 77) Bromobenzene              | 12.976 | 156  | 127393   | 48.547  | ug/l   | 93       |
| 78) n-propylbenzene           | 13.035 | 91   | 631465   | 45.248  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 13.124 | 91   | 395077   | 45.241  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 13.171 | 105  | 443856   | 45.790  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75   | 57769    | 40.608  | ug/l   | 97       |
| 82) 4-Chlorotoluene           | 13.218 | 91   | 393518   | 45.364  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.435 | 119  | 374336   | 44.569  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.482 | 105  | 447705   | 45.375  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.612 | 105  | 521025   | 44.723  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.723 | 119  | 432307   | 45.020  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.729 | 146  | 232066   | 47.044  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.812 | 146  | 230154   | 46.322  | ug/l   | 98       |
| 89) n-Butylbenzene            | 14.053 | 91   | 359671   | 42.257  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.329 | 117  | 75129    | 46.514  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene       | 14.100 | 146  | 221784   | 46.373  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.718 | 75   | 30251    | 44.058  | ug/l   | 97       |
| 93) 1,2,4-Trichlorobenzene    | 15.388 | 180  | 97785    | 42.698  | ug/l   | 100      |
| 94) Hexachlorobutadiene       | 15.500 | 225  | 34374    | 39.762  | ug/l   | 100      |
| 95) Naphthalene               | 15.635 | 128  | 351506   | 43.299  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.835 | 180  | 95125    | 43.873  | ug/l   | 99       |

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Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050EC

Manual Integrations  
APPROVED

Reviewed By :John Carlone 05/02/2025  
Supervised By :Semsettin Yesilyurt 05/05/2025

Quant Time: May 01 01:37:37 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N041525W.M  
Quant Title : SW846 8260  
QLast Update : Wed Apr 16 04:19:23 2025  
Response via : Initial Calibration

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

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

