

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX050925\  
 Data File : VX046102.D  
 Acq On : 09 May 2025 10:05  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/12/2025  
 Supervised By : Mahesh Dadoda 05/12/2025

Quant Time: May 09 23:13:30 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 06 07:12:22 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|-------|----------|
| -----                        |                |      |                     |         |       |          |
| Internal Standards           |                |      |                     |         |       |          |
| 1) Pentafluorobenzene        | 5.544          | 168  | 90819               | 50.000  | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.751          | 114  | 154646              | 50.000  | ug/l  | 0.00     |
| 63) Chlorobenzene-d5         | 10.049         | 117  | 135275              | 50.000  | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.018         | 152  | 64593               | 50.000  | ug/l  | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |       |          |
| 33) 1,2-Dichloroethane-d4    | 5.946          | 65   | 83904               | 49.555  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 99.100%  |         |       |          |
| 35) Dibromofluoromethane     | 5.379          | 113  | 58232               | 52.291  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 104.580% |         |       |          |
| 50) Toluene-d8               | 8.641          | 98   | 197959              | 51.360  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 102.720% |         |       |          |
| 62) 4-Bromofluorobenzene     | 11.079         | 95   | 76110               | 51.479  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 77 - 121 |      | Recovery = 102.960% |         |       |          |
| Target Compounds             |                |      |                     |         |       |          |
|                              |                |      |                     |         |       | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 70327               | 50.593  | ug/l  | 99       |
| 3) Chloromethane             | 1.307          | 50   | 64874               | 48.126  | ug/l  | 99       |
| 4) Vinyl Chloride            | 1.374          | 62   | 58467               | 46.603  | ug/l  | 100      |
| 5) Bromomethane              | 1.593          | 94   | 26052               | 44.771  | ug/l  | 98       |
| 6) Chloroethane              | 1.666          | 64   | 31251               | 46.661  | ug/l  | 97       |
| 7) Trichlorofluoromethane    | 1.874          | 101  | 87272               | 47.069  | ug/l  | 97       |
| 8) Diethyl Ether             | 2.130          | 74   | 27804               | 44.051  | ug/l  | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 2.319          | 101  | 52929               | 46.128  | ug/l  | 99       |
| 10) Methyl Iodide            | 2.447          | 142  | 61952               | 45.630  | ug/l  | 99       |
| 11) Tert butyl alcohol       | 2.977          | 59   | 51554               | 216.916 | ug/l  | 100      |
| 12) 1,1-Dichloroethene       | 2.312          | 96   | 48200               | 44.759  | ug/l  | 97       |
| 13) Acrolein                 | 2.233          | 56   | 95346               | 352.264 | ug/l  | 98       |
| 14) Allyl chloride           | 2.654          | 41   | 97537               | 47.391  | ug/l  | 98       |
| 15) Acrylonitrile            | 3.062          | 53   | 155424              | 228.700 | ug/l  | 98       |
| 16) Acetone                  | 2.380          | 43   | 151168              | 222.674 | ug/l  | 100      |
| 17) Carbon Disulfide         | 2.501          | 76   | 119490              | 46.802  | ug/l  | 99       |
| 18) Methyl Acetate           | 2.703          | 43   | 73470               | 46.637  | ug/l  | 99       |
| 19) Methyl tert-butyl Ether  | 3.111          | 73   | 174356              | 46.181  | ug/l  | 98       |
| 20) Methylene Chloride       | 2.782          | 84   | 56204               | 43.202  | ug/l  | 95       |
| 21) trans-1,2-Dichloroethene | 3.081          | 96   | 48550               | 44.830  | ug/l  | 98       |
| 22) Diisopropyl ether        | 3.757          | 45   | 183349              | 46.119  | ug/l  | 97       |
| 23) Vinyl Acetate            | 3.715          | 43   | 819744              | 234.437 | ug/l  | 99       |
| 24) 1,1-Dichloroethane       | 3.605          | 63   | 102333              | 46.215  | ug/l  | 99       |
| 25) 2-Butanone               | 4.550          | 43   | 224557              | 227.842 | ug/l  | 100      |
| 26) 2,2-Dichloropropane      | 4.465          | 77   | 79815               | 46.052  | ug/l  | 99       |
| 27) cis-1,2-Dichloroethene   | 4.483          | 96   | 59523               | 45.656  | ug/l  | 99       |
| 28) Bromochloromethane       | 4.885          | 49   | 52743               | 49.484  | ug/l  | 99       |
| 29) Tetrahydrofuran          | 5.001          | 42   | 139063              | 225.170 | ug/l  | 99       |
| 30) Chloroform               | 5.086          | 83   | 106204              | 46.016  | ug/l  | 97       |
| 31) Cyclohexane              | 5.458          | 56   | 90103               | 44.654  | ug/l  | 97       |
| 32) 1,1,1-Trichloroethane    | 5.373          | 97   | 92916               | 46.442  | ug/l  | 99       |
| 36) 1,1-Dichloropropene      | 5.684          | 75   | 67721               | 45.260  | ug/l  | 98       |
| 37) Ethyl Acetate            | 4.708          | 43   | 85521               | 46.262  | ug/l  | 99       |
| 38) Carbon Tetrachloride     | 5.666          | 117  | 79494               | 47.285  | ug/l  | 99       |
| 39) Methylcyclohexane        | 7.373          | 83   | 87280               | 45.310  | ug/l  | 95       |
| 40) Benzene                  | 6.025          | 78   | 203956              | 46.537  | ug/l  | 100      |

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 Data File : VX046102.D  
 Acq On : 09 May 2025 10:05  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/12/2025  
 Supervised By : Mahesh Dadoda 05/12/2025

Quant Time: May 09 23:13:30 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 06 07:12:22 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 4.916  | 41   | 47525    | 49.145  | ug/l   | 97       |
| 42) 1,2-Dichloroethane        | 6.080  | 62   | 88615    | 46.849  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 6.336  | 43   | 133527   | 47.347  | ug/l   | 99       |
| 44) Trichloroethene           | 7.117  | 130  | 50158    | 47.551  | ug/l   | 95       |
| 45) 1,2-Dichloropropane       | 7.421  | 63   | 52345    | 48.033  | ug/l   | 99       |
| 46) Dibromomethane            | 7.574  | 93   | 40032    | 46.575  | ug/l   | 99       |
| 47) Bromodichloromethane      | 7.811  | 83   | 83005    | 49.032  | ug/l   | 98       |
| 48) Methyl methacrylate       | 7.690  | 41   | 69338    | 48.142  | ug/l   | 99       |
| 49) 1,4-Dioxane               | 7.659  | 88   | 25409    | 929.126 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone      | 8.567  | 43   | 442789   | 236.533 | ug/l   | 99       |
| 52) Toluene                   | 8.714  | 92   | 126108   | 46.926  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 8.976  | 75   | 73479    | 48.832  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 8.360  | 75   | 82288    | 49.479  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 9.147  | 97   | 48739    | 45.996  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 9.110  | 69   | 81826    | 48.451  | ug/l   | 99       |
| 57) 1,3-Dichloropropane       | 9.305  | 76   | 86269    | 45.332  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 8.238  | 63   | 227616   | 264.363 | ug/l   | 99       |
| 59) 2-Hexanone                | 9.427  | 43   | 327764   | 236.658 | ug/l   | 99       |
| 60) Dibromochloromethane      | 9.519  | 129  | 58018    | 49.855  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 9.604  | 107  | 51865    | 47.092  | ug/l   | 99       |
| 64) Tetrachloroethene         | 9.269  | 164  | 44313    | 46.298  | ug/l   | 97       |
| 65) Chlorobenzene             | 10.073 | 112  | 133595   | 45.121  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131  | 47203    | 46.688  | ug/l   | 99       |
| 67) Ethyl Benzene             | 10.189 | 91   | 245866   | 47.108  | ug/l   | 100      |
| 68) m/p-Xylenes               | 10.299 | 106  | 178978   | 93.761  | ug/l   | 98       |
| 69) o-Xylene                  | 10.640 | 106  | 86732    | 46.606  | ug/l   | 97       |
| 70) Styrene                   | 10.652 | 104  | 146931   | 48.198  | ug/l   | 99       |
| 71) Bromoform                 | 10.799 | 173  | 36439    | 48.005  | ug/l # | 97       |
| 73) Isopropylbenzene          | 10.957 | 105  | 236631   | 47.056  | ug/l   | 99       |
| 74) N-amyl acetate            | 10.841 | 43   | 117355   | 47.227  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 11.207 | 83   | 78192    | 44.371  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 11.238 | 75   | 68877m   | 44.300  | ug/l   |          |
| 77) Bromobenzene              | 11.195 | 156  | 53064    | 45.451  | ug/l   | 99       |
| 78) n-propylbenzene           | 11.299 | 91   | 273944   | 46.851  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 11.360 | 91   | 169747   | 45.009  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 11.445 | 105  | 197809   | 47.084  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 11.012 | 75   | 21533    | 45.090  | ug/l   | 98       |
| 82) 4-Chlorotoluene           | 11.451 | 91   | 195179   | 46.667  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 11.713 | 119  | 194507   | 45.963  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 200678   | 47.169  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 245530   | 47.255  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 12.006 | 119  | 204887   | 47.772  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 11.963 | 146  | 97397    | 45.711  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 12.036 | 146  | 97674    | 44.887  | ug/l   | 99       |
| 89) n-Butylbenzene            | 12.329 | 91   | 184440   | 49.026  | ug/l   | 99       |
| 90) Hexachloroethane          | 12.536 | 117  | 35733    | 47.291  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 12.329 | 146  | 97200    | 45.460  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75   | 19088    | 48.894  | ug/l   | 97       |
| 93) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 57281    | 46.643  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 25977    | 48.433  | ug/l   | 98       |
| 95) Naphthalene               | 13.774 | 128  | 204290   | 45.356  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 13.957 | 180  | 57889    | 45.684  | ug/l   | 99       |

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Operator : JC/MD  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

Reviewed By :John Carlone 05/12/2025  
Supervised By :Mahesh Dadoda 05/12/2025

Quant Time: May 09 23:13:30 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
Quant Title : SW846 8260  
QLast Update : Tue May 06 07:12:22 2025  
Response via : Initial Calibration

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

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

