

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN081225\  
 Data File : VN087523.D  
 Acq On : 12 Aug 2025 18:24  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Quant Time: Aug 13 03:10:12 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N071625W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jul 17 02:56:13 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 08/13/2025  
 Supervised By : Mahesh Dadoda 08/14/2025

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 8.212          | 168  | 285478              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.082          | 114  | 551652              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.847         | 117  | 512794              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.770         | 152  | 257688              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.565          | 65   | 266240              | 54.963  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 109.920% |         |        |          |
| 35) Dibromofluoromethane     | 8.153          | 113  | 183944              | 48.339  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 96.680%  |         |        |          |
| 50) Toluene-d8               | 10.547         | 98   | 669604              | 49.330  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 98.660%  |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.829         | 95   | 261881              | 52.220  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 77 - 121 |      | Recovery = 104.440% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.142          | 85   | 188765              | 62.255  | ug/l   | 93       |
| 3) Chloromethane             | 2.383          | 50   | 190804              | 50.041  | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.542          | 62   | 208362              | 54.987  | ug/l   | 98       |
| 5) Bromomethane              | 2.971          | 94   | 120267              | 61.289  | ug/l   | 98       |
| 6) Chloroethane              | 3.130          | 64   | 139856              | 56.594  | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.506          | 101  | 308328              | 55.027  | ug/l   | 98       |
| 8) Diethyl Ether             | 3.959          | 74   | 133220              | 61.292  | ug/l   | 98       |
| 9) 1,1,2-Trichlorotrifluo... | 4.365          | 101  | 164671              | 57.250  | ug/l   | 95       |
| 10) Methyl Iodide            | 4.577          | 142  | 126139              | 43.458  | ug/l   | 96       |
| 11) Tert butyl alcohol       | 5.530          | 59   | 269052              | 292.524 | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 4.330          | 96   | 169847              | 52.109  | ug/l   | 95       |
| 13) Acrolein                 | 4.177          | 56   | 201525              | 273.021 | ug/l   | 98       |
| 14) Allyl chloride           | 5.006          | 41   | 329739              | 55.899  | ug/l   | 95       |
| 15) Acrylonitrile            | 5.712          | 53   | 675671              | 270.715 | ug/l   | 98       |
| 16) Acetone                  | 4.424          | 43   | 607302              | 267.394 | ug/l   | 97       |
| 17) Carbon Disulfide         | 4.700          | 76   | 477701              | 49.434  | ug/l # | 94       |
| 18) Methyl Acetate           | 5.018          | 43   | 346284              | 60.687  | ug/l   | 100      |
| 19) Methyl tert-butyl Ether  | 5.789          | 73   | 748569              | 62.308  | ug/l   | 96       |
| 20) Methylene Chloride       | 5.265          | 84   | 210389              | 54.860  | ug/l   | 97       |
| 21) trans-1,2-Dichloroethene | 5.771          | 96   | 190780              | 51.910  | ug/l   | 95       |
| 22) Diisopropyl ether        | 6.659          | 45   | 754357              | 60.966  | ug/l   | 95       |
| 23) Vinyl Acetate            | 6.594          | 43   | 3471379             | 320.781 | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.559          | 63   | 390926              | 54.763  | ug/l   | 98       |
| 25) 2-Butanone               | 7.471          | 43   | 980006              | 279.267 | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 7.477          | 77   | 320069              | 57.670  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.471          | 96   | 238056              | 56.262  | ug/l   | 95       |
| 28) Bromochloromethane       | 7.800          | 49   | 203192              | 59.475  | ug/l   | 94       |
| 29) Tetrahydrofuran          | 7.830          | 42   | 652846              | 286.376 | ug/l   | 100      |
| 30) Chloroform               | 7.953          | 83   | 412910              | 57.789  | ug/l   | 96       |
| 31) Cyclohexane              | 8.241          | 56   | 326538              | 54.834  | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 8.153          | 97   | 347571              | 56.164  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 8.353          | 75   | 271059              | 53.916  | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.553          | 43   | 389758              | 53.679  | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 8.347          | 117  | 281436              | 50.817  | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.582          | 83   | 302648              | 55.604  | ug/l   | 97       |
| 40) Benzene                  | 8.588          | 78   | 855204              | 52.632  | ug/l   | 94       |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 08/13/2025  
 Supervised By : Mahesh Dadoda 08/14/2025

Quant Time: Aug 13 03:10:12 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N071625W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jul 17 02:56:13 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.765  | 41   | 219396   | 57.788   | ug/l   | 97       |
| 42) 1,2-Dichloroethane        | 8.659  | 62   | 336700   | 54.642   | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.677  | 43   | 644040   | 57.140   | ug/l   | 98       |
| 44) Trichloroethene           | 9.335  | 130  | 191326   | 49.833   | ug/l   | 89       |
| 45) 1,2-Dichloropropane       | 9.606  | 63   | 220662   | 53.446   | ug/l   | 97       |
| 46) Dibromomethane            | 9.694  | 93   | 164628   | 53.257   | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.871  | 83   | 336000   | 53.963   | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.665  | 41   | 305607   | 60.227   | ug/l   | 93       |
| 49) 1,4-Dioxane               | 9.682  | 88   | 78261    | 1006.998 | ug/l # | 100      |
| 51) 4-Methyl-2-Pentanone      | 10.429 | 43   | 1970529  | 276.416  | ug/l   | 98       |
| 52) Toluene                   | 10.612 | 92   | 535787   | 54.250   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.818 | 75   | 356569   | 56.585   | ug/l   | 94       |
| 54) cis-1,3-Dichloropropene   | 10.294 | 75   | 364453   | 55.991   | ug/l # | 86       |
| 55) 1,1,2-Trichloroethane     | 11.000 | 97   | 211280   | 52.840   | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.859 | 69   | 376832   | 55.772   | ug/l # | 90       |
| 57) 1,3-Dichloropropane       | 11.147 | 76   | 376358   | 54.440   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.141 | 63   | 994177   | 303.103  | ug/l   | 99       |
| 59) 2-Hexanone                | 11.176 | 43   | 1351913  | 285.835  | ug/l   | 99       |
| 60) Dibromochloromethane      | 11.341 | 129  | 245577   | 53.855   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.453 | 107  | 226724   | 53.929   | ug/l   | 95       |
| 64) Tetrachloroethene         | 11.082 | 164  | 152429   | 46.185   | ug/l   | 93       |
| 65) Chlorobenzene             | 11.870 | 112  | 573859   | 49.846   | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.941 | 131  | 203322   | 51.938   | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.947 | 91   | 1032308  | 54.468   | ug/l   | 99       |
| 68) m/p-Xylenes               | 12.053 | 106  | 769961   | 108.491  | ug/l   | 93       |
| 69) o-Xylene                  | 12.376 | 106  | 384892   | 56.775   | ug/l   | 96       |
| 70) Styrene                   | 12.394 | 104  | 656112   | 57.532   | ug/l   | 98       |
| 71) Bromoform                 | 12.559 | 173  | 163577   | 51.722   | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.676 | 105  | 972539   | 59.965   | ug/l   | 97       |
| 74) N-amyl acetate            | 12.506 | 43   | 353439m  | 52.452   | ug/l   |          |
| 75) 1,1,2,2-Tetrachloroethane | 12.917 | 83   | 338370   | 55.446   | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 12.976 | 75   | 294081m  | 50.893   | ug/l   |          |
| 77) Bromobenzene              | 12.959 | 156  | 231249   | 54.979   | ug/l   | 97       |
| 78) n-propylbenzene           | 13.017 | 91   | 1191223  | 58.378   | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 13.106 | 91   | 725083   | 57.818   | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene    | 13.153 | 105  | 830549   | 60.105   | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.717 | 75   | 108257   | 51.261   | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 13.200 | 91   | 759247   | 58.151   | ug/l   | 96       |
| 83) tert-Butylbenzene         | 13.417 | 119  | 701004   | 60.739   | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.459 | 105  | 854134   | 60.527   | ug/l   | 96       |
| 85) sec-Butylbenzene          | 13.594 | 105  | 1027991  | 59.134   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.706 | 119  | 852567   | 61.197   | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.712 | 146  | 444891   | 53.893   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.788 | 146  | 451224   | 51.179   | ug/l   | 97       |
| 89) n-Butylbenzene            | 14.035 | 91   | 833388   | 62.647   | ug/l   | 99       |
| 90) Hexachloroethane          | 14.311 | 117  | 160453   | 54.358   | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene       | 14.082 | 146  | 432630   | 55.320   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.700 | 75   | 81908    | 51.121   | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene    | 15.364 | 180  | 259265   | 56.438   | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.476 | 225  | 90076    | 52.771   | ug/l   | 99       |
| 95) Naphthalene               | 15.617 | 128  | 955726   | 58.727   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.811 | 180  | 250016   | 54.256   | ug/l   | 98       |

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ALS Vial : 23 Sample Multiplier: 1

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MSVOA\_N  
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Quant Title : SW846 8260  
QLast Update : Thu Jul 17 02:56:13 2025  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

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