

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN031825\  
 Data File : VN086003.D  
 Acq On : 18 Mar 2025 16:49  
 Operator : JC\MD  
 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 ICVVN031825

Quant Time: Mar 19 03:39:56 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N031825W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 19 03:20:56 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 03/19/2025  
 Supervised By : Mahesh Dadoda 03/19/2025

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 8.218          | 168  | 185181     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.100          | 114  | 294426     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.859         | 117  | 272136     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.788         | 152  | 140427     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.577          | 65   | 125581     | 49.524   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 99.040%  |        |          |
| 35) Dibromofluoromethane     | 8.165          | 113  | 100012     | 48.666   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 97.340%  |        |          |
| 50) Toluene-d8               | 10.565         | 98   | 385868     | 51.736   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 103.480% |        |          |
| 62) 4-Bromofluorobenzene     | 12.847         | 95   | 141589     | 53.231   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 77 - 121 |      | Recovery = | 106.460% |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.124          | 85   | 137956     | 56.232   | ug/l   | 99       |
| 3) Chloromethane             | 2.359          | 50   | 112934     | 52.508   | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.512          | 62   | 123086     | 55.971   | ug/l   | 98       |
| 5) Bromomethane              | 2.948          | 94   | 77255      | 51.574   | ug/l   | 97       |
| 6) Chloroethane              | 3.112          | 64   | 70967      | 51.154   | ug/l   | 90       |
| 7) Trichlorofluoromethane    | 3.495          | 101  | 209962     | 53.112   | ug/l   | 97       |
| 8) Diethyl Ether             | 3.953          | 74   | 68372      | 56.496   | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 4.365          | 101  | 111303     | 52.975   | ug/l   | 100      |
| 10) Methyl Iodide            | 4.583          | 142  | 155175     | 56.682   | ug/l   | 94       |
| 11) Tert butyl alcohol       | 5.512          | 59   | 85582      | 238.378  | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 4.336          | 96   | 108747     | 57.321   | ug/l   | 97       |
| 13) Acrolein                 | 4.177          | 56   | 104529     | 272.978  | ug/l   | 100      |
| 14) Allyl chloride           | 5.012          | 41   | 133855     | 56.555   | ug/l   | 98       |
| 15) Acrylonitrile            | 5.712          | 53   | 246595     | 260.076  | ug/l   | 98       |
| 16) Acetone                  | 4.418          | 43   | 183647     | 237.056  | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.712          | 76   | 317235     | 50.845   | ug/l   | 98       |
| 18) Methyl Acetate           | 5.012          | 43   | 95164      | 49.649   | ug/l   | 100      |
| 19) Methyl tert-butyl Ether  | 5.789          | 73   | 363920     | 58.538   | ug/l   | 97       |
| 20) Methylene Chloride       | 5.271          | 84   | 121113     | 53.440   | ug/l   | 94       |
| 21) trans-1,2-Dichloroethene | 5.783          | 96   | 115247     | 55.586   | ug/l   | 97       |
| 22) Diisopropyl ether        | 6.665          | 45   | 300680     | 59.615   | ug/l   | 97       |
| 23) Vinyl Acetate            | 6.600          | 43   | 1129550    | 295.428  | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 6.565          | 63   | 203556     | 54.884   | ug/l   | 99       |
| 25) 2-Butanone               | 7.477          | 43   | 283608     | 253.710  | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 7.483          | 77   | 198771     | 55.667   | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 7.483          | 96   | 134668     | 57.158   | ug/l   | 98       |
| 28) Bromochloromethane       | 7.812          | 49   | 68612      | 43.664   | ug/l   | 98       |
| 29) Tetrahydrofuran          | 7.836          | 42   | 185823     | 269.263  | ug/l   | 99       |
| 30) Chloroform               | 7.959          | 83   | 222991     | 54.394   | ug/l   | 99       |
| 31) Cyclohexane              | 8.253          | 56   | 172895     | 54.721   | ug/l   | 97       |
| 32) 1,1,1-Trichloroethane    | 8.165          | 97   | 215524     | 55.539   | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 8.371          | 75   | 155704     | 57.540   | ug/l   | 100      |
| 37) Ethyl Acetate            | 7.559          | 43   | 115871     | 50.756   | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 8.359          | 117  | 201085     | 56.517   | ug/l   | 95       |
| 39) Methylcyclohexane        | 9.600          | 83   | 163279     | 60.818   | ug/l   | 98       |
| 40) Benzene                  | 8.600          | 78   | 483089     | 56.869   | ug/l   | 98       |

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| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.777  | 41   | 63723    | 58.457   | ug/l   | 94       |
| 42) 1,2-Dichloroethane        | 8.665  | 62   | 162271   | 54.822   | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.683  | 43   | 203943   | 41.226   | ug/l   | 99       |
| 44) Trichloroethene           | 9.347  | 130  | 117248   | 53.255   | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 9.618  | 63   | 111560   | 57.740   | ug/l   | 97       |
| 46) Dibromomethane            | 9.706  | 93   | 85108    | 56.012   | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.882  | 83   | 177051   | 55.753   | ug/l   | 95       |
| 48) Methyl methacrylate       | 9.677  | 41   | 94275    | 57.751   | ug/l   | 98       |
| 49) 1,4-Dioxane               | 9.688  | 88   | 40821    | 1057.815 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone      | 10.441 | 43   | 607531   | 278.467  | ug/l   | 99       |
| 52) Toluene                   | 10.629 | 92   | 314632   | 60.348   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.829 | 75   | 184084   | 59.689   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.306 | 75   | 194976   | 59.921   | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 11.012 | 97   | 111563   | 56.064   | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.871 | 69   | 174971   | 55.208   | ug/l   | 99       |
| 57) 1,3-Dichloropropane       | 11.159 | 76   | 194964   | 57.684   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.153 | 63   | 382073   | 306.978  | ug/l   | 99       |
| 59) 2-Hexanone                | 11.194 | 43   | 448560   | 282.228  | ug/l   | 98       |
| 60) Dibromochloromethane      | 11.353 | 129  | 147588   | 57.477   | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.465 | 107  | 117559   | 57.545   | ug/l   | 99       |
| 64) Tetrachloroethene         | 11.100 | 164  | 114717   | 52.844   | ug/l   | 97       |
| 65) Chlorobenzene             | 11.888 | 112  | 334921   | 53.783   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131  | 126196   | 54.515   | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.959 | 91   | 593609   | 59.592   | ug/l   | 99       |
| 68) m/p-Xylenes               | 12.065 | 106  | 472258   | 120.622  | ug/l   | 99       |
| 69) o-Xylene                  | 12.394 | 106  | 223040   | 62.069   | ug/l   | 100      |
| 70) Styrene                   | 12.406 | 104  | 378434   | 61.658   | ug/l   | 99       |
| 71) Bromoform                 | 12.576 | 173  | 103943   | 53.714   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.694 | 105  | 562565   | 58.664   | ug/l   | 100      |
| 74) N-amyl acetate            | 12.488 | 43   | 182359   | 56.839   | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83   | 160871   | 49.586   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.988 | 75   | 153873m  | 48.944   | ug/l   |          |
| 77) Bromobenzene              | 12.976 | 156  | 142234   | 53.193   | ug/l   | 98       |
| 78) n-propylbenzene           | 13.035 | 91   | 660295   | 60.807   | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 13.123 | 91   | 414442   | 57.461   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 13.171 | 105  | 491547   | 60.712   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75   | 68481    | 57.589   | ug/l   | 93       |
| 82) 4-Chlorotoluene           | 13.218 | 91   | 422016   | 56.898   | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.435 | 119  | 405831   | 58.608   | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.476 | 105  | 503636   | 61.674   | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.612 | 105  | 567954   | 62.874   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.723 | 119  | 488020   | 63.821   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.729 | 146  | 267129   | 55.423   | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.806 | 146  | 262223   | 51.782   | ug/l   | 99       |
| 89) n-Butylbenzene            | 14.053 | 91   | 393994   | 63.272   | ug/l   | 99       |
| 90) Hexachloroethane          | 14.329 | 117  | 93033    | 52.727   | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 14.100 | 146  | 254035   | 53.019   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.717 | 75   | 33218    | 51.293   | ug/l   | 94       |
| 93) 1,2,4-Trichlorobenzene    | 15.388 | 180  | 131782   | 54.700   | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.494 | 225  | 70418    | 50.380   | ug/l   | 99       |
| 95) Naphthalene               | 15.635 | 128  | 378782   | 54.297   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.835 | 180  | 127760   | 55.887   | ug/l   | 99       |

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

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