

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN042425\  
 Data File : VN086393.D  
 Acq On : 24 Apr 2025 11:46  
 Operator : JC\MD  
 Sample : VN0424WBS01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0424WBS01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 04/25/2025  
 Supervised By : Mahesh Dadoda 04/25/2025

Quant Time: Apr 25 01:38:30 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N042325W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu Apr 24 04:42:24 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Bromochloromethane        | 7.812          | 128  | 30716               | 30.000  | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 9.094          | 114  | 187066              | 30.000  | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 11.865         | 117  | 169214              | 30.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 27) 1,2-Dichloroethane-d4    | 8.577          | 65   | 90627               | 30.603  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = 102.000% |         |        |          |
| 60) 4-Bromofluorobenzene     | 12.847         | 95   | 98790               | 29.704  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = 99.000%  |         |        |          |
| 63) Toluene-d8               | 10.565         | 98   | 282216              | 30.316  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = 101.067% |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 2.124          | 85   | 41983               | 19.798  | ug/l   | 98       |
| 3) Chloromethane             | 2.359          | 50   | 56336               | 18.702  | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.518          | 62   | 55871               | 19.366  | ug/l   | 98       |
| 5) Bromomethane              | 2.965          | 94   | 29049               | 19.286  | ug/l   | 96       |
| 6) Chloroethane              | 3.124          | 64   | 37815               | 19.661  | ug/l   | 95       |
| 7) Trichlorofluoromethane    | 3.501          | 101  | 66336               | 19.479  | ug/l   | 99       |
| 8) Diethyl Ether             | 3.953          | 74   | 27774               | 19.321  | ug/l   | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 4.371          | 101  | 41765               | 19.949  | ug/l   | 97       |
| 10) 1,1-Dichloroethene       | 4.342          | 96   | 41813               | 19.513  | ug/l   | 97       |
| 11) Methyl Iodide            | 4.589          | 142  | 47890               | 19.101  | ug/l   | 96       |
| 12) Methyl Acetate           | 5.018          | 43   | 61625               | 20.290  | ug/l   | 96       |
| 13) Acrolein                 | 4.177          | 56   | 11204               | 66.412  | ug/l   | 96       |
| 14) Acrylonitrile            | 5.712          | 53   | 114298              | 101.112 | ug/l   | 98       |
| 15) Acetone                  | 4.424          | 58   | 32212               | 103.413 | ug/l   | 98       |
| 16) Carbon Disulfide         | 4.712          | 76   | 106670              | 18.891  | ug/l   | 100      |
| 17) Allyl chloride           | 5.024          | 41   | 66232               | 19.330  | ug/l   | 96       |
| 18) Methylene Chloride       | 5.277          | 84   | 48521               | 19.883  | ug/l   | 95       |
| 19) trans-1,2-Dichloroethene | 5.789          | 96   | 44116               | 19.315  | ug/l   | 97       |
| 20) Diisopropyl ether        | 6.665          | 45   | 160213              | 19.666  | ug/l   | 97       |
| 21) 1,1-Dichloroethane       | 6.565          | 63   | 87256               | 19.567  | ug/l   | 98       |
| 22) cis-1,2-Dichloroethene   | 7.483          | 96   | 56115               | 19.649  | ug/l   | 98       |
| 23) tert-Butyl Alcohol       | 5.512          | 59   | 46588               | 106.389 | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 5.789          | 73   | 157378              | 19.878  | ug/l   | 100      |
| 25) Chloroform               | 7.965          | 83   | 89591               | 19.851  | ug/l   | 100      |
| 26) Cyclohexane              | 8.253          | 56   | 74201               | 18.845  | ug/l # | 100      |
| 29) 1,1-Dichloropropene      | 8.365          | 75   | 62346               | 18.905  | ug/l   | 99       |
| 30) 2-Butanone               | 7.477          | 43   | 159446              | 99.612  | ug/l   | 100      |
| 31) 2,2-Dichloropropane      | 7.489          | 77   | 81909               | 19.321  | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 8.165          | 97   | 75539               | 19.168  | ug/l   | 99       |
| 33) Carbon Tetrachloride     | 8.359          | 117  | 61566               | 18.978  | ug/l   | 97       |
| 34) Benzene                  | 8.600          | 78   | 202777              | 19.332  | ug/l   | 97       |
| 35) Methacrylonitrile        | 7.777          | 41   | 34453               | 18.869  | ug/l   | 93       |
| 36) 1,2-Dichloroethane       | 8.665          | 62   | 67069               | 19.694  | ug/l   | 99       |
| 37) Trichloroethene          | 9.347          | 130  | 49498               | 18.850  | ug/l   | 95       |
| 38) Methylcyclohexane        | 9.594          | 83   | 70900               | 18.615  | ug/l   | 97       |
| 39) 1,2-Dichloropropane      | 9.618          | 63   | 49666               | 19.167  | ug/l   | 98       |
| 40) Dibromomethane           | 9.706          | 93   | 33767               | 19.486  | ug/l   | 98       |
| 41) Bromodichloromethane     | 9.883          | 83   | 70933               | 19.343  | ug/l   | 99       |
| 42) Vinyl Acetate            | 6.600          | 43   | 541188              | 97.602  | ug/l   | 100      |

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 ALS Vial : 3 Sample Multiplier: 1

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 MSVOA\_N  
 ClientSampleId :  
 VN0424WBS01

Quant Time: Apr 25 01:38:30 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N042325W.M  
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Manual Integrations  
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Reviewed By : John Carlone 04/25/2025  
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| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 43) Ethyl Acetate             | 7.559  | 43   | 62559    | 19.749  | ug/l  | 99       |
| 44) Isopropyl Acetate         | 8.683  | 43   | 116989   | 19.459  | ug/l  | 99       |
| 45) 1,4-Dioxane               | 9.688  | 88   | 19852    | 423.219 | ug/l  | 98       |
| 46) Methyl methacrylate       | 9.677  | 41   | 52246    | 18.840  | ug/l  | 98       |
| 47) n-amyl Acetate            | 12.488 | 43   | 93724    | 18.291  | ug/l  | 100      |
| 48) t-1,3-Dichloropropene     | 10.829 | 75   | 78168    | 19.066  | ug/l  | 98       |
| 49) cis-1,3-Dichloropropene   | 10.312 | 75   | 82896    | 19.173  | ug/l  | 98       |
| 50) 1,1,2-Trichloroethane     | 11.012 | 97   | 47593    | 19.662  | ug/l  | 97       |
| 51) Ethyl methacrylate        | 10.871 | 69   | 80815    | 19.171  | ug/l  | 99       |
| 52) 1,3-Dichloropropane       | 11.159 | 76   | 83250    | 19.460  | ug/l  | 99       |
| 53) Dibromochloromethane      | 11.353 | 129  | 52262    | 19.229  | ug/l  | 100      |
| 54) 1,2-Dibromoethane         | 11.465 | 107  | 47225    | 19.189  | ug/l  | 99       |
| 55) 2-Chloroethyl vinyl ether | 10.153 | 63   | 119218   | 60.151  | ug/l  | 100      |
| 56) Bromoform                 | 12.576 | 173  | 33645    | 19.076  | ug/l  | 96       |
| 58) 4-Methyl-2-Pentanone      | 10.441 | 43   | 328424   | 100.296 | ug/l  | 99       |
| 59) 2-Hexanone                | 11.194 | 43   | 241768   | 100.190 | ug/l  | 100      |
| 61) Tetrachloroethene         | 11.100 | 164  | 49539    | 19.195  | ug/l  | 96       |
| 62) Toluene                   | 10.630 | 91   | 222975   | 19.686  | ug/l  | 100      |
| 64) Chlorobenzene             | 11.888 | 112  | 135782   | 19.239  | ug/l  | 98       |
| 65) 1,1,1,2-Tetrachloroethane | 11.959 | 131  | 46507    | 19.708  | ug/l  | 99       |
| 66) Ethyl Benzene             | 11.959 | 91   | 244984   | 19.216  | ug/l  | 99       |
| 67) m/p-Xylenes               | 12.065 | 106  | 184808   | 38.204  | ug/l  | 99       |
| 68) o-Xylene                  | 12.394 | 106  | 92067    | 19.438  | ug/l  | 97       |
| 69) Styrene                   | 12.406 | 104  | 151483   | 18.869  | ug/l  | 99       |
| 70) Isopropylbenzene          | 12.688 | 105  | 228650   | 19.339  | ug/l  | 100      |
| 71) 1,1,2,2-Tetrachloroethane | 12.935 | 83   | 64537    | 20.730  | ug/l  | 100      |
| 72) 1,2,3-Trichloropropane    | 12.988 | 75   | 53299m   | 19.637  | ug/l  |          |
| 73) Bromobenzene              | 12.976 | 156  | 52092    | 19.164  | ug/l  | 98       |
| 74) n-propylbenzene           | 13.029 | 91   | 270460   | 19.250  | ug/l  | 100      |
| 75) 2-Chlorotoluene           | 13.123 | 91   | 168848   | 19.252  | ug/l  | 100      |
| 76) 1,3,5-Trimethylbenzene    | 13.171 | 105  | 185652   | 19.137  | ug/l  | 100      |
| 77) t-1,4-Dichloro-2-butene   | 12.735 | 75   | 25883    | 18.791  | ug/l  | 95       |
| 78) 4-Chlorotoluene           | 13.218 | 91   | 167685   | 19.121  | ug/l  | 99       |
| 79) tert-butylbenzene         | 13.435 | 119  | 160864   | 19.361  | ug/l  | 100      |
| 80) 1,2,4-Trimethylbenzene    | 13.476 | 105  | 187103   | 18.885  | ug/l  | 98       |
| 81) sec-Butylbenzene          | 13.612 | 105  | 229662   | 19.365  | ug/l  | 100      |
| 82) p-Isopropyltoluene        | 13.723 | 119  | 189462   | 19.091  | ug/l  | 100      |
| 83) 1,3-Dichlorobenzene       | 13.729 | 146  | 98479    | 19.166  | ug/l  | 98       |
| 84) 1,4-Dichlorobenzene       | 13.806 | 146  | 95957    | 18.901  | ug/l  | 99       |
| 85) n-Butylbenzene            | 14.053 | 91   | 166813   | 18.838  | ug/l  | 99       |
| 86) Hexachloroethane          | 14.329 | 117  | 30320    | 18.684  | ug/l  | 97       |
| 87) 1,2-Dichlorobenzene       | 14.100 | 146  | 94819    | 19.394  | ug/l  | 99       |
| 88) 1,2-Dibromo-3-Chloropr... | 14.717 | 75   | 11912    | 18.825  | ug/l  | 97       |
| 89) 1,2,4-Trichlorobenzene    | 15.835 | 180  | 42750    | 19.185  | ug/l  | 99       |
| 90) Hexachlorobutadiene       | 15.494 | 225  | 17956    | 20.005  | ug/l  | 98       |
| 91) Naphthalene               | 15.635 | 128  | 146416   | 18.353  | ug/l  | 99       |
| 92) 1,2,3-Trichlorobenzene    | 15.835 | 180  | 42750    | 19.185  | ug/l  | 99       |

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

