

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN102522\  
 Data File : VN075005.D  
 Acq On : 25 Oct 2022 12:00  
 Operator : JC\MD  
 Sample : VSTDIC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC050

Quant Time: Oct 27 09:54:55 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N102522W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu Oct 27 09:52:53 2022  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|------------------------------|--------|-------|----------|----------|------------|----------|
| -----                        |        |       |          |          |            |          |
| Internal Standards           |        |       |          |          |            |          |
| 1) Bromochloromethane        | 7.824  | 128   | 17246    | 30.000   | ug/l       | 0.00     |
| 28) 1,4-Difluorobenzene      | 9.106  | 114   | 97065    | 30.000   | ug/l       | 0.00     |
| 57) Chlorobenzene-d5         | 11.865 | 117   | 93747    | 30.000   | ug/l       | 0.00     |
| System Monitoring Compounds  |        |       |          |          |            |          |
| 27) 1,2-Dichloroethane-d4    | 8.583  | 65    | 48872    | 30.993   | ug/l       | 0.00     |
| Spiked Amount                | 30.000 | Range | 91 - 110 | Recovery | = 103.300% |          |
| 60) 4-Bromofluorobenzene     | 12.847 | 95    | 58146    | 31.567   | ug/l       | 0.00     |
| Spiked Amount                | 30.000 | Range | 63 - 112 | Recovery | = 105.233% |          |
| 63) Toluene-d8               | 10.571 | 98    | 160082   | 30.531   | ug/l       | 0.00     |
| Spiked Amount                | 30.000 | Range | 91 - 112 | Recovery | = 101.767% |          |
| Target Compounds             |        |       |          |          |            | Qvalue   |
| 2) Dichlorodifluoromethane   | 2.142  | 85    | 39041    | 46.502   | ug/l       | 94       |
| 3) Chloromethane             | 2.377  | 50    | 53721    | 48.645   | ug/l       | 100      |
| 4) Vinyl Chloride            | 2.530  | 62    | 83804    | 50.185   | ug/l       | 100      |
| 5) Bromomethane              | 2.930  | 94    | 69366    | 52.540   | ug/l       | 97       |
| 6) Chloroethane              | 3.112  | 64    | 62653    | 48.641   | ug/l       | 97       |
| 7) Trichlorofluoromethane    | 3.501  | 101   | 86092    | 48.061   | ug/l       | 97       |
| 8) Diethyl Ether             | 3.977  | 74    | 36222    | 49.022   | ug/l       | 91       |
| 9) 1,1,2-Trichlorotrifluo... | 4.377  | 101   | 50702    | 48.131   | ug/l       | 74       |
| 10) 1,1-Dichloroethene       | 4.353  | 96    | 47600    | 48.176   | ug/l       | 99       |
| 11) Methyl Iodide            | 4.595  | 142   | 75609    | 49.051   | ug/l       | 91       |
| 12) Methyl Acetate           | 5.042  | 43    | 81279    | 48.560   | ug/l       | 95       |
| 13) Acrolein                 | 4.195  | 56    | 49250    | 240.238  | ug/l       | 99       |
| 14) Acrylonitrile            | 5.736  | 53    | 171799   | 248.440  | ug/l       | 99       |
| 15) Acetone                  | 4.448  | 58    | 50623    | 261.004  | ug/l       | 98       |
| 16) Carbon Disulfide         | 4.724  | 76    | 107054   | 49.217   | ug/l       | 98       |
| 17) Allyl chloride           | 5.036  | 41    | 67028    | 50.628   | ug/l       | 93       |
| 18) Methylene Chloride       | 5.283  | 84    | 60452    | 48.836   | ug/l       | 94       |
| 19) trans-1,2-Dichloroethene | 5.800  | 96    | 53051    | 48.295   | ug/l       | 99       |
| 20) Diisopropyl ether        | 6.689  | 45    | 173399   | 50.462   | ug/l       | 91       |
| 21) 1,1-Dichloroethane       | 6.577  | 63    | 108007   | 50.607   | ug/l #     | 94       |
| 22) cis-1,2-Dichloroethene   | 7.500  | 96    | 67776    | 48.831   | ug/l       | 97       |
| 23) tert-Butyl Alcohol       | 5.547  | 59    | 76256    | 238.218  | ug/l #     | 100      |
| 24) Methyl tert-Butyl Ether  | 5.812  | 73    | 200287   | 49.562   | ug/l       | 92       |
| 25) Chloroform               | 7.971  | 83    | 120518   | 51.115   | ug/l       | 100      |
| 26) Cyclohexane              | 8.265  | 56    | 90336    | 52.691   | ug/l #     | 94       |
| 29) 1,1-Dichloropropene      | 8.377  | 75    | 84260    | 50.608   | ug/l       | 97       |
| 30) 2-Butanone               | 7.494  | 43    | 246442   | 256.771  | ug/l       | 97       |
| 31) 2,2-Dichloropropane      | 7.500  | 77    | 102848   | 50.570   | ug/l       | 98       |
| 32) 1,1,1-Trichloroethane    | 8.177  | 97    | 107862   | 50.022   | ug/l       | 99       |
| 33) Carbon Tetrachloride     | 8.371  | 117   | 94131    | 49.577   | ug/l       | 99       |
| 34) Benzene                  | 8.612  | 78    | 255686   | 50.233   | ug/l       | 96       |
| 35) Methacrylonitrile        | 7.789  | 41    | 47133    | 51.237   | ug/l       | 94       |
| 36) 1,2-Dichloroethane       | 8.677  | 62    | 97738    | 51.822   | ug/l       | 98       |
| 37) Trichloroethene          | 9.353  | 130   | 64592    | 51.066   | ug/l       | 99       |
| 38) Methylcyclohexane        | 9.606  | 83    | 105210   | 50.964   | ug/l       | 96       |
| 39) 1,2-Dichloropropane      | 9.624  | 63    | 65450    | 51.078   | ug/l       | 96       |
| 40) Dibromomethane           | 9.712  | 93    | 48806    | 50.205   | ug/l       | 98       |
| 41) Bromodichloromethane     | 9.888  | 83    | 95999    | 50.721   | ug/l       | 95       |
| 42) Vinyl Acetate            | 6.618  | 43    | 685869   | 253.702  | ug/l #     | 90       |

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 Sample : VSTDICC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC050

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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N102522W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu Oct 27 09:52:53 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 43) Ethyl Acetate             | 7.571  | 43   | 93780    | 49.441  | ug/l   | 98       |
| 44) Isopropyl Acetate         | 8.694  | 43   | 155740   | 51.187  | ug/l   | 96       |
| 45) 1,4-Dioxane               | 9.700  | 88   | 36425    | 972.652 | ug/l   | 96       |
| 46) Methyl methacrylate       | 9.688  | 41   | 68687    | 50.324  | ug/l   | 87       |
| 47) n-amyl Acetate            | 12.494 | 43   | 141278   | 54.051  | ug/l   | 95       |
| 48) t-1,3-Dichloropropene     | 10.835 | 75   | 107560   | 52.019  | ug/l   | 96       |
| 49) cis-1,3-Dichloropropene   | 10.318 | 75   | 110569   | 50.877  | ug/l # | 88       |
| 50) 1,1,2-Trichloroethane     | 11.018 | 97   | 72323    | 50.780  | ug/l   | 98       |
| 51) Ethyl methacrylate        | 10.877 | 69   | 115666   | 52.124  | ug/l   | 85       |
| 52) 1,3-Dichloropropane       | 11.165 | 76   | 120862   | 50.739  | ug/l   | 98       |
| 53) Dibromochloromethane      | 11.359 | 129  | 80424    | 52.209  | ug/l   | 99       |
| 54) 1,2-Dibromoethane         | 11.471 | 107  | 75977    | 51.563  | ug/l   | 96       |
| 55) 2-Chloroethyl vinyl ether | 10.165 | 63   | 225037   | 248.221 | ug/l   | 99       |
| 56) Bromoform                 | 12.582 | 173  | 57876    | 51.174  | ug/l # | 99       |
| 58) 4-Methyl-2-Pentanone      | 10.447 | 43   | 512696   | 253.546 | ug/l   | 93       |
| 59) 2-Hexanone                | 11.200 | 43   | 392171   | 252.817 | ug/l   | 92       |
| 61) Tetrachloroethene         | 11.106 | 164  | 50125    | 48.078  | ug/l   | 95       |
| 62) Toluene                   | 10.635 | 91   | 309801   | 51.041  | ug/l   | 96       |
| 64) Chlorobenzene             | 11.894 | 112  | 191899   | 51.019  | ug/l   | 100      |
| 65) 1,1,1,2-Tetrachloroethane | 11.965 | 131  | 73417    | 51.095  | ug/l   | 99       |
| 66) Ethyl Benzene             | 11.965 | 91   | 354226   | 51.784  | ug/l   | 100      |
| 67) m/p-Xylenes               | 12.071 | 106  | 287089   | 104.647 | ug/l   | 95       |
| 68) o-Xylene                  | 12.400 | 106  | 143671   | 52.100  | ug/l   | 95       |
| 69) Styrene                   | 12.412 | 104  | 232850   | 51.633  | ug/l   | 98       |
| 70) Isopropylbenzene          | 12.700 | 105  | 374780   | 52.161  | ug/l   | 99       |
| 71) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 117981   | 50.409  | ug/l   | 99       |
| 72) 1,2,3-Trichloropropane    | 12.994 | 75   | 110270m  | 56.303  | ug/l   |          |
| 73) Bromobenzene              | 12.982 | 156  | 81087    | 50.703  | ug/l   | 94       |
| 74) n-propylbenzene           | 13.041 | 91   | 426187   | 52.969  | ug/l   | 98       |
| 75) 2-Chlorotoluene           | 13.123 | 91   | 257150   | 52.831  | ug/l   | 97       |
| 76) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 325054   | 53.367  | ug/l   | 97       |
| 77) t-1,4-Dichloro-2-butene   | 12.741 | 75   | 39615    | 53.435  | ug/l   | 89       |
| 78) 4-Chlorotoluene           | 13.223 | 91   | 255012   | 52.780  | ug/l   | 98       |
| 79) tert-butylbenzene         | 13.441 | 119  | 286343   | 52.689  | ug/l   | 97       |
| 80) 1,2,4-Trimethylbenzene    | 13.482 | 105  | 322007m  | 52.078  | ug/l   |          |
| 81) sec-Butylbenzene          | 13.618 | 105  | 409943   | 63.514  | ug/l   | 99       |
| 82) p-Isopropyltoluene        | 13.729 | 119  | 338625   | 52.539  | ug/l   | 99       |
| 83) 1,3-Dichlorobenzene       | 13.735 | 146  | 162827   | 51.484  | ug/l   | 99       |
| 84) 1,4-Dichlorobenzene       | 13.812 | 146  | 158066   | 51.804  | ug/l   | 99       |
| 85) n-Butylbenzene            | 14.059 | 91   | 274179   | 53.037  | ug/l   | 97       |
| 86) Hexachloroethane          | 14.335 | 117  | 63314    | 53.010  | ug/l   | 92       |
| 87) 1,2-Dichlorobenzene       | 14.106 | 146  | 158416   | 50.640  | ug/l   | 98       |
| 88) 1,2-Dibromo-3-Chloropr... | 14.723 | 75   | 25430    | 51.692  | ug/l   | 97       |
| 89) 1,2,4-Trichlorobenzene    | 15.394 | 180  | 71203    | 51.532  | ug/l   | 96       |
| 90) Hexachlorobutadiene       | 15.500 | 225  | 31764    | 49.985  | ug/l   | 98       |
| 91) Naphthalene               | 15.641 | 128  | 280664   | 51.252  | ug/l   | 100      |
| 92) 1,2,3-Trichlorobenzene    | 15.841 | 180  | 70609    | 50.482  | ug/l   | 99       |

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

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