

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN051722\  
 Data File : VN072530.D  
 Acq On : 17 May 2022 15:07  
 Operator : JC\MD  
 Sample : VN0517WBS02  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0517WBS02

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/18/2022  
 Supervised By : Mahesh Dadoda 05/18/2022

Quant Time: May 18 07:25:49 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N051622W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Tue May 17 06:34:50 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                        |                |      |            |           |        |          |
| Internal Standards           |                |      |            |           |        |          |
| 1) Bromochloromethane        | 7.657          | 128  | 27249      | 30.000    | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 8.963          | 114  | 140127     | 30.000    | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 11.739         | 117  | 113822     | 30.000    | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |           |        |          |
| 27) 1,2-Dichloroethane-d4    | 8.428          | 65   | 83412      | 27.204    | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = | 90.667%#  |        |          |
| 60) 4-Bromofluorobenzene     | 12.727         | 95   | 65944      | 29.672    | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = | 98.900%   |        |          |
| 63) Toluene-d8               | 10.439         | 98   | 216528     | 34.849    | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = | 116.167%# |        |          |
| Target Compounds             |                |      |            |           |        |          |
|                              |                |      |            |           | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.069          | 85   | 43183      | 19.078    | ug/l   | 99       |
| 3) Chloromethane             | 2.299          | 50   | 41029      | 20.069    | ug/l   | 96       |
| 4) Vinyl Chloride            | 2.440          | 62   | 29976      | 17.369    | ug/l   | 93       |
| 5) Bromomethane              | 2.834          | 94   | 23224      | 16.545    | ug/l   | 94       |
| 6) Chloroethane              | 3.010          | 64   | 20742      | 18.405    | ug/l # | 87       |
| 7) Trichlorofluoromethane    | 3.369          | 101  | 67813      | 16.634    | ug/l   | 98       |
| 8) Diethyl Ether             | 3.822          | 74   | 24239      | 19.765    | ug/l   | 98       |
| 9) 1,1,2-Trichlorotrifluo... | 4.210          | 101  | 38675      | 20.135    | ug/l   | 95       |
| 10) 1,1-Dichloroethene       | 4.187          | 96   | 33168      | 19.150    | ug/l   | 92       |
| 11) Methyl Iodide            | 4.422          | 142  | 49692      | 19.052    | ug/l   | 98       |
| 12) Methyl Acetate           | 4.851          | 43   | 49503      | 17.667    | ug/l   | 95       |
| 13) Acrolein                 | 4.040          | 56   | 43528      | 98.869    | ug/l   | 99       |
| 14) Acrylonitrile            | 5.551          | 53   | 104229     | 88.170    | ug/l   | 99       |
| 15) Acetone                  | 4.287          | 58   | 26307m     | 84.866    | ug/l   |          |
| 16) Carbon Disulfide         | 4.528          | 76   | 81550      | 18.152    | ug/l   | 98       |
| 17) Allyl chloride           | 4.834          | 41   | 56631m     | 18.114    | ug/l   |          |
| 18) Methylene Chloride       | 5.093          | 84   | 42797      | 20.876    | ug/l   | 98       |
| 19) trans-1,2-Dichloroethene | 5.593          | 96   | 37779      | 19.859    | ug/l   | 91       |
| 20) Diisopropyl ether        | 6.487          | 45   | 128390     | 19.754    | ug/l   | 97       |
| 21) 1,1-Dichloroethane       | 6.381          | 63   | 73537      | 18.920    | ug/l   | 99       |
| 22) cis-1,2-Dichloroethene   | 7.316          | 96   | 43800      | 19.611    | ug/l   | 97       |
| 23) tert-Butyl Alcohol       | 5.363          | 59   | 35182      | 67.850    | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 5.616          | 73   | 140124     | 19.721    | ug/l # | 75       |
| 25) Chloroform               | 7.816          | 83   | 81845      | 19.525    | ug/l   | 97       |
| 26) Cyclohexane              | 8.098          | 56   | 59123      | 18.745    | ug/l # | 99       |
| 29) 1,1-Dichloropropene      | 8.216          | 75   | 53935      | 19.327    | ug/l   | 98       |
| 30) 2-Butanone               | 7.328          | 43   | 139890     | 86.608    | ug/l   | 99       |
| 31) 2,2-Dichloropropane      | 7.328          | 77   | 68376      | 19.749    | ug/l   | 95       |
| 32) 1,1,1-Trichloroethane    | 8.010          | 97   | 78048      | 19.607    | ug/l   | 99       |
| 33) Carbon Tetrachloride     | 8.198          | 117  | 68934      | 19.487    | ug/l   | 95       |
| 34) Benzene                  | 8.457          | 78   | 163360     | 20.601    | ug/l   | 98       |
| 35) Methacrylonitrile        | 7.628          | 41   | 32969      | 19.305    | ug/l   | 93       |
| 36) 1,2-Dichloroethane       | 8.528          | 62   | 69326      | 18.773    | ug/l   | 100      |
| 37) Trichloroethene          | 9.210          | 130  | 43332      | 20.142    | ug/l   | 100      |
| 38) Methylcyclohexane        | 9.457          | 83   | 61578      | 19.085    | ug/l   | 89       |
| 39) 1,2-Dichloropropane      | 9.481          | 63   | 40866      | 20.458    | ug/l   | 97       |
| 40) Dibromomethane           | 9.575          | 93   | 31482      | 20.417    | ug/l   | 90       |
| 41) Bromodichloromethane     | 9.757          | 83   | 63680      | 19.493    | ug/l   | 97       |
| 42) Vinyl Acetate            | 6.428          | 43   | 547479     | 100.705   | ug/l   | 99       |

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 ALS Vial : 5 Sample Multiplier: 1

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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
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| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 43) Ethyl Acetate             | 7.410  | 43   | 61882    | 19.618  | ug/l   | 97       |
| 44) Isopropyl Acetate         | 8.557  | 43   | 96988    | 19.208  | ug/l   | 98       |
| 45) 1,4-Dioxane               | 9.563  | 88   | 13568    | 282.126 | ug/l   | 91       |
| 46) Methyl methacrylate       | 9.557  | 41   | 43033    | 18.011  | ug/l   | 88       |
| 47) n-amyl Acetate            | 12.386 | 43   | 54116    | 16.010  | ug/l   | 96       |
| 48) t-1,3-Dichloropropene     | 10.716 | 75   | 66867    | 19.389  | ug/l   | 95       |
| 49) cis-1,3-Dichloropropene   | 10.186 | 75   | 69407    | 19.968  | ug/l   | 95       |
| 50) 1,1,2-Trichloroethane     | 10.892 | 97   | 46117    | 21.683  | ug/l   | 95       |
| 51) Ethyl methacrylate        | 10.757 | 69   | 63848    | 19.251  | ug/l   | 93       |
| 52) 1,3-Dichloropropane       | 11.039 | 76   | 76418    | 20.796  | ug/l   | 96       |
| 53) Dibromochloromethane      | 11.233 | 129  | 51829    | 20.183  | ug/l   | 98       |
| 54) 1,2-Dibromoethane         | 11.339 | 107  | 42775    | 18.907  | ug/l   | 94       |
| 55) 2-Chloroethyl vinyl ether | 10.039 | 63   | 76000    | 90.316  | ug/l   | 98       |
| 56) Bromoform                 | 12.457 | 173  | 32461    | 16.761  | ug/l # | 99       |
| 58) 4-Methyl-2-Pentanone      | 10.328 | 43   | 294106   | 109.657 | ug/l   | 97       |
| 59) 2-Hexanone                | 11.080 | 43   | 202997   | 103.028 | ug/l   | 96       |
| 61) Tetrachloroethene         | 10.975 | 164  | 42009    | 24.645  | ug/l   | 87       |
| 62) Toluene                   | 10.498 | 91   | 182477   | 23.730  | ug/l   | 97       |
| 64) Chlorobenzene             | 11.769 | 112  | 95450    | 19.900  | ug/l   | 97       |
| 65) 1,1,1,2-Tetrachloroethane | 11.839 | 131  | 41353    | 20.851  | ug/l   | 95       |
| 66) Ethyl Benzene             | 11.839 | 91   | 167946   | 19.418  | ug/l   | 98       |
| 67) m/p-Xylenes               | 11.945 | 106  | 129306   | 39.433  | ug/l   | 91       |
| 68) o-Xylene                  | 12.274 | 106  | 64676    | 19.953  | ug/l   | 94       |
| 69) Styrene                   | 12.292 | 104  | 103851   | 20.116  | ug/l   | 93       |
| 70) Isopropylbenzene          | 12.574 | 105  | 171787   | 19.972  | ug/l   | 99       |
| 71) 1,1,2,2-Tetrachloroethane | 12.822 | 83   | 54222    | 20.643  | ug/l   | 97       |
| 72) 1,2,3-Trichloropropane    | 12.874 | 75   | 42683m   | 17.326  | ug/l   |          |
| 73) Bromobenzene              | 12.857 | 156  | 41720    | 20.154  | ug/l   | 99       |
| 74) n-propylbenzene           | 12.916 | 91   | 185606   | 19.712  | ug/l   | 98       |
| 75) 2-Chlorotoluene           | 13.004 | 91   | 124022   | 20.386  | ug/l   | 96       |
| 76) 1,3,5-Trimethylbenzene    | 13.057 | 105  | 145322   | 19.754  | ug/l   | 99       |
| 77) t-1,4-Dichloro-2-butene   | 12.621 | 75   | 15136    | 18.595  | ug/l   | 87       |
| 78) 4-Chlorotoluene           | 13.098 | 91   | 115879   | 20.322  | ug/l   | 97       |
| 79) tert-butylbenzene         | 13.316 | 119  | 126202   | 19.525  | ug/l   | 99       |
| 80) 1,2,4-Trimethylbenzene    | 13.363 | 105  | 145278   | 20.493  | ug/l # | 82       |
| 81) sec-Butylbenzene          | 13.498 | 105  | 163983   | 19.136  | ug/l   | 97       |
| 82) p-Isopropyltoluene        | 13.610 | 119  | 137429   | 19.377  | ug/l   | 100      |
| 83) 1,3-Dichlorobenzene       | 13.610 | 146  | 73299    | 20.743  | ug/l   | 99       |
| 84) 1,4-Dichlorobenzene       | 13.692 | 146  | 67386    | 19.597  | ug/l   | 98       |
| 85) n-Butylbenzene            | 13.939 | 91   | 94299    | 17.942  | ug/l   | 98       |
| 86) Hexachloroethane          | 14.210 | 117  | 25476    | 19.508  | ug/l   | 92       |
| 87) 1,2-Dichlorobenzene       | 13.986 | 146  | 71702    | 20.755  | ug/l   | 98       |
| 88) 1,2-Dibromo-3-Chloropr... | 14.604 | 75   | 11542    | 18.667  | ug/l   | 95       |
| 89) 1,2,4-Trichlorobenzene    | 15.257 | 180  | 34386    | 21.988  | ug/l   | 95       |
| 90) Hexachlorobutadiene       | 15.363 | 225  | 23329    | 24.138  | ug/l   | 98       |
| 91) Naphthalene               | 15.498 | 128  | 93427    | 21.807  | ug/l   | 98       |
| 92) 1,2,3-Trichlorobenzene    | 15.698 | 180  | 35573    | 22.347  | ug/l   | 98       |

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

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 ALS Vial : 5 Sample Multiplier: 1

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