

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX072622\  
 Data File : VX030205.D  
 Acq On : 26 Jul 2022 10:51  
 Operator : JC/MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC020

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 07/27/2022  
 Supervised By : Mahesh Dadoda 07/27/2022

Quant Time: Jul 26 11:15:09 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X070822W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Jul 09 02:10:54 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response             | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|----------------------|---------|--------|----------|
| -----                        |                |      |                      |         |        |          |
| Internal Standards           |                |      |                      |         |        |          |
| 1) Bromochloromethane        | 4.903          | 128  | 34151                | 30.000  | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 6.763          | 114  | 191583               | 30.000  | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 10.055         | 117  | 175002               | 30.000  | ug/l   | 0.00     |
|                              |                |      |                      |         |        |          |
| System Monitoring Compounds  |                |      |                      |         |        |          |
| 27) 1,2-Dichloroethane-d4    | 5.958          | 65   | 92417                | 33.187  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = 110.633%# |         |        |          |
| 60) 4-Bromofluorobenzene     | 11.085         | 95   | 102047               | 30.942  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = 103.133%  |         |        |          |
| 63) Toluene-d8               | 8.653          | 98   | 284902               | 30.023  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = 100.067%  |         |        |          |
|                              |                |      |                      |         |        |          |
| Target Compounds             |                |      |                      |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 48619                | 20.819  | ug/l   | 96       |
| 3) Chloromethane             | 1.288          | 50   | 44823                | 18.406  | ug/l   | 95       |
| 4) Vinyl Chloride            | 1.374          | 62   | 47628                | 17.260  | ug/l   | 99       |
| 5) Bromomethane              | 1.605          | 94   | 22567                | 19.850  | ug/l   | 96       |
| 6) Chloroethane              | 1.684          | 64   | 27928                | 18.899  | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 1.886          | 101  | 66745                | 19.081  | ug/l   | 100      |
| 8) Diethyl Ether             | 2.136          | 74   | 26416                | 17.755  | ug/l   | 87       |
| 9) 1,1,2-Trichlorotrifluo... | 2.331          | 101  | 48566                | 20.620  | ug/l   | 93       |
| 10) 1,1-Dichloroethene       | 2.318          | 96   | 48281                | 20.076  | ug/l   | 99       |
| 11) Methyl Iodide            | 2.453          | 142  | 45303                | 24.277  | ug/l   | 95       |
| 12) Methyl Acetate           | 2.709          | 43   | 96352                | 24.600  | ug/l   | 91       |
| 13) Acrolein                 | 2.239          | 56   | 17965                | 39.044  | ug/l   | 93       |
| 14) Acrylonitrile            | 3.068          | 53   | 186474               | 110.621 | ug/l   | 97       |
| 15) Acetone                  | 2.386          | 58   | 47682                | 104.133 | ug/l   | 93       |
| 16) Carbon Disulfide         | 2.514          | 76   | 122594               | 19.527  | ug/l   | 98       |
| 17) Allyl chloride           | 2.666          | 41   | 97005                | 22.888  | ug/l   | 93       |
| 18) Methylene Chloride       | 2.788          | 84   | 56820                | 20.279  | ug/l   | 94       |
| 19) trans-1,2-Dichloroethene | 3.093          | 96   | 52921                | 20.278  | ug/l   | 98       |
| 20) Diisopropyl ether        | 3.763          | 45   | 191959               | 22.609  | ug/l   | 88       |
| 21) 1,1-Dichloroethane       | 3.611          | 63   | 99474                | 21.763  | ug/l   | 98       |
| 22) cis-1,2-Dichloroethene   | 4.495          | 96   | 60137                | 19.405  | ug/l   | 92       |
| 23) tert-Butyl Alcohol       | 2.971          | 59   | 75819                | 98.180  | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 3.117          | 73   | 166346               | 21.440  | ug/l   | 97       |
| 25) Chloroform               | 5.098          | 83   | 97894                | 21.490  | ug/l   | 95       |
| 26) Cyclohexane              | 5.470          | 56   | 89485                | 21.130  | ug/l # | 88       |
| 29) 1,1-Dichloropropene      | 5.696          | 75   | 72212                | 22.034  | ug/l   | 99       |
| 30) 2-Butanone               | 4.562          | 43   | 261101               | 118.032 | ug/l   | 96       |
| 31) 2,2-Dichloropropane      | 4.483          | 77   | 72107                | 23.020  | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 5.385          | 97   | 80586                | 22.868  | ug/l   | 96       |
| 33) Carbon Tetrachloride     | 5.678          | 117  | 67995                | 22.973  | ug/l   | 95       |
| 34) Benzene                  | 6.043          | 78   | 225520               | 21.413  | ug/l   | 98       |
| 35) Methacrylonitrile        | 4.928          | 41   | 55313                | 24.703  | ug/l   | 98       |
| 36) 1,2-Dichloroethane       | 6.092          | 62   | 77266                | 24.100  | ug/l   | 99       |
| 37) Trichloroethene          | 7.129          | 130  | 58713                | 20.845  | ug/l   | 92       |
| 38) Methylcyclohexane        | 7.379          | 83   | 90910                | 21.378  | ug/l   | 92       |
| 39) 1,2-Dichloropropane      | 7.433          | 63   | 60356                | 22.512  | ug/l   | 95       |
| 40) Dibromomethane           | 7.586          | 93   | 38945                | 21.430  | ug/l   | 90       |
| 41) Bromodichloromethane     | 7.824          | 83   | 73994                | 22.794  | ug/l   | 99       |
| 42) Vinyl Acetate            | 3.727          | 43   | 830381               | 117.381 | ug/l   | 95       |

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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Jul 09 02:10:54 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 43) Ethyl Acetate             | 4.720  | 43   | 98365    | 23.606  | ug/l   | 98       |
| 44) Isopropyl Acetate         | 6.342  | 43   | 148040   | 23.386  | ug/l   | 97       |
| 45) 1,4-Dioxane               | 7.677  | 88   | 31548    | 424.540 | ug/l   | 97       |
| 46) Methyl methacrylate       | 7.696  | 41   | 71871    | 23.958  | ug/l   | 97       |
| 47) n-amyl Acetate            | 10.841 | 43   | 118424   | 21.777  | ug/l   | 97       |
| 48) t-1,3-Dichloropropene     | 8.982  | 75   | 77161    | 21.508  | ug/l   | 99       |
| 49) cis-1,3-Dichloropropene   | 8.366  | 75   | 87416    | 21.700  | ug/l   | 96       |
| 50) 1,1,2-Trichloroethane     | 9.153  | 97   | 55633    | 20.664  | ug/l   | 92       |
| 51) Ethyl methacrylate        | 9.116  | 69   | 91702    | 21.888  | ug/l   | 96       |
| 52) 1,3-Dichloropropane       | 9.311  | 76   | 93225    | 21.526  | ug/l   | 99       |
| 53) Dibromochloromethane      | 9.524  | 129  | 55073    | 22.100  | ug/l   | 99       |
| 54) 1,2-Dibromoethane         | 9.610  | 107  | 60108    | 21.499  | ug/l   | 97       |
| 55) 2-Chloroethyl vinyl ether | 8.244  | 63   | 226197   | 104.737 | ug/l   | 94       |
| 56) Bromoform                 | 10.805 | 173  | 35652    | 20.438  | ug/l   | 99       |
| 58) 4-Methyl-2-Pentanone      | 8.573  | 43   | 501726   | 116.068 | ug/l   | 95       |
| 59) 2-Hexanone                | 9.433  | 43   | 392229   | 117.314 | ug/l   | 96       |
| 61) Tetrachloroethene         | 9.275  | 164  | 56263    | 21.412  | ug/l   | 95       |
| 62) Toluene                   | 8.720  | 91   | 239382   | 20.563  | ug/l   | 97       |
| 64) Chlorobenzene             | 10.079 | 112  | 141373   | 20.335  | ug/l   | 98       |
| 65) 1,1,1,2-Tetrachloroethane | 10.165 | 131  | 51463    | 21.228  | ug/l   | 95       |
| 66) Ethyl Benzene             | 10.195 | 91   | 261478   | 21.136  | ug/l   | 96       |
| 67) m/p-Xylenes               | 10.305 | 106  | 200392   | 41.744  | ug/l   | 97       |
| 68) o-Xylene                  | 10.646 | 106  | 98703    | 20.647  | ug/l   | 99       |
| 69) Styrene                   | 10.658 | 104  | 160288   | 20.262  | ug/l   | 97       |
| 70) Isopropylbenzene          | 10.963 | 105  | 254133   | 21.114  | ug/l   | 99       |
| 71) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 88497    | 20.219  | ug/l   | 98       |
| 72) 1,2,3-Trichloropropane    | 11.244 | 75   | 82426m   | 20.950  | ug/l   |          |
| 73) Bromobenzene              | 11.201 | 156  | 58159    | 20.151  | ug/l   | 87       |
| 74) n-propylbenzene           | 11.305 | 91   | 310137   | 21.480  | ug/l   | 97       |
| 75) 2-Chlorotoluene           | 11.366 | 91   | 182935   | 21.516  | ug/l   | 97       |
| 76) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 217303   | 21.504  | ug/l   | 97       |
| 77) t-1,4-Dichloro-2-butene   | 11.024 | 75   | 26809    | 19.811  | ug/l   | 82       |
| 78) 4-Chlorotoluene           | 11.457 | 91   | 206908   | 21.683  | ug/l   | 99       |
| 79) tert-butylbenzene         | 11.719 | 119  | 201446   | 20.491  | ug/l   | 97       |
| 80) 1,2,4-Trimethylbenzene    | 11.756 | 105  | 212575   | 20.462  | ug/l   | 99       |
| 81) sec-Butylbenzene          | 11.890 | 105  | 271313   | 20.389  | ug/l   | 98       |
| 82) p-Isopropyltoluene        | 12.012 | 119  | 218080   | 20.357  | ug/l   | 98       |
| 83) 1,3-Dichlorobenzene       | 11.969 | 146  | 110278   | 19.749  | ug/l   | 98       |
| 84) 1,4-Dichlorobenzene       | 12.042 | 146  | 110995   | 19.599  | ug/l   | 98       |
| 85) n-Butylbenzene            | 12.335 | 91   | 204069   | 20.300  | ug/l   | 96       |
| 86) Hexachloroethane          | 12.542 | 117  | 36891    | 20.727  | ug/l   | 83       |
| 87) 1,2-Dichlorobenzene       | 12.335 | 146  | 114920   | 20.842  | ug/l   | 99       |
| 88) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 23800    | 23.844  | ug/l # | 77       |
| 89) 1,2,4-Trichlorobenzene    | 13.591 | 180  | 66485    | 19.474  | ug/l   | 98       |
| 90) Hexachlorobutadiene       | 13.725 | 225  | 26278    | 20.296  | ug/l   | 98       |
| 91) Naphthalene               | 13.780 | 128  | 271492   | 19.951  | ug/l   | 99       |
| 92) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 68785    | 19.780  | ug/l   | 99       |

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

