

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX080321\  
 Data File : VX023530.D  
 Acq On : 03 Aug 2021 16:42  
 Operator : JC/MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC020EC

Manual Integrations  
 APPROVED

MMDadoda  
 8/6/2021 5:39:36 PM

Quant Time: Aug 04 04:56:32 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X080321W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Tue Aug 03 12:05:42 2021  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|------------------------------|--------|-------|----------|----------|--------|----------|
| -----                        |        |       |          |          |        |          |
| Internal Standards           |        |       |          |          |        |          |
| 1) Bromochloromethane        | 4.904  | 128   | 39535    | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 6.763  | 114   | 212934   | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 10.055 | 117   | 194031   | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4    | 5.958  | 65    | 86462    | 28.279   | ug/l   | 0.00     |
| Spiked Amount                | 30.000 | Range | 91 - 110 | Recovery | =      | 94.267%  |
| 60) 4-Bromofluorobenzene     | 11.085 | 95    | 93337    | 29.369   | ug/l   | 0.00     |
| Spiked Amount                | 30.000 | Range | 63 - 112 | Recovery | =      | 97.900%  |
| 63) Toluene-d8               | 8.653  | 98    | 264366   | 30.274   | ug/l   | 0.00     |
| Spiked Amount                | 30.000 | Range | 91 - 112 | Recovery | =      | 100.900% |
| Target Compounds             |        |       |          |          |        |          |
|                              |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.173  | 85    | 45595    | 19.526   | ug/l   | 100      |
| 3) Chloromethane             | 1.294  | 50    | 51587    | 19.581   | ug/l   | 98       |
| 4) Vinyl Chloride            | 1.374  | 62    | 51072    | 19.382   | ug/l   | 97       |
| 5) Bromomethane              | 1.599  | 94    | 34775    | 22.490   | ug/l   | 100      |
| 6) Chloroethane              | 1.685  | 64    | 31627    | 19.170   | ug/l   | 94       |
| 7) Trichlorofluoromethane    | 1.886  | 101   | 81435    | 19.136   | ug/l   | 95       |
| 8) Diethyl Ether             | 2.136  | 74    | 28915    | 19.055   | ug/l   | 96       |
| 9) 1,1,2-Trichlorotrifluo... | 2.331  | 101   | 47515    | 19.987   | ug/l   | 99       |
| 10) 1,1-Dichloroethene       | 2.319  | 96    | 44361    | 19.367   | ug/l   | 92       |
| 11) Methyl Iodide            | 2.453  | 142   | 58256    | 18.102   | ug/l   | 98       |
| 12) Methyl Acetate           | 2.709  | 43    | 66048    | 19.334   | ug/l   | 100      |
| 13) Acrolein                 | 2.239  | 56    | 36737    | 97.679   | ug/l   | 99       |
| 14) Acrylonitrile            | 3.069  | 53    | 143468   | 94.935   | ug/l   | 98       |
| 15) Acetone                  | 2.386  | 58    | 39656    | 86.588   | ug/l   | 97       |
| 16) Carbon Disulfide         | 2.514  | 76    | 104365   | 18.470   | ug/l   | 100      |
| 17) Allyl chloride           | 2.666  | 41    | 78954    | 18.655   | ug/l   | 97       |
| 18) Methylene Chloride       | 2.794  | 84    | 53329    | 19.797   | ug/l   | 94       |
| 19) trans-1,2-Dichloroethene | 3.093  | 96    | 46836    | 19.105   | ug/l   | 91       |
| 20) Diisopropyl ether        | 3.770  | 45    | 160122   | 18.946   | ug/l   | 93       |
| 21) 1,1-Dichloroethane       | 3.611  | 63    | 87230    | 18.949   | ug/l   | 100      |
| 22) cis-1,2-Dichloroethene   | 4.495  | 96    | 54633    | 19.150   | ug/l   | 98       |
| 23) tert-Butyl Alcohol       | 2.971  | 59    | 65770    | 95.910   | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 3.123  | 73    | 153344   | 19.086   | ug/l   | 100      |
| 25) Chloroform               | 5.099  | 83    | 89987    | 19.056   | ug/l   | 99       |
| 26) Cyclohexane              | 5.477  | 56    | 80635    | 19.293   | ug/l # | 99       |
| 29) 1,1-Dichloropropene      | 5.696  | 75    | 66597    | 20.081   | ug/l   | 100      |
| 30) 2-Butanone               | 4.562  | 43    | 206208   | 92.761   | ug/l   | 100      |
| 31) 2,2-Dichloropropane      | 4.483  | 77    | 70290    | 18.748   | ug/l   | 97       |
| 32) 1,1,1-Trichloroethane    | 5.391  | 97    | 77543    | 19.328   | ug/l   | 98       |
| 33) Carbon Tetrachloride     | 5.684  | 117   | 67352    | 19.301   | ug/l   | 98       |
| 34) Benzene                  | 6.044  | 78    | 193802   | 19.383   | ug/l   | 98       |
| 35) Methacrylonitrile        | 4.928  | 41    | 41838    | 18.718   | ug/l   | 99       |
| 36) 1,2-Dichloroethane       | 6.092  | 62    | 74374    | 19.466   | ug/l   | 100      |
| 37) Trichloroethene          | 7.129  | 130   | 53572    | 19.721   | ug/l   | 98       |
| 38) Methylcyclohexane        | 7.385  | 83    | 84613    | 20.057   | ug/l   | 100      |
| 39) 1,2-Dichloropropane      | 7.434  | 63    | 50205    | 19.189   | ug/l   | 98       |
| 40) Dibromomethane           | 7.586  | 93    | 35729    | 19.250   | ug/l   | 98       |
| 41) Bromodichloromethane     | 7.824  | 83    | 63123    | 18.739   | ug/l   | 99       |
| 42) Vinyl Acetate            | 3.727  | 43    | 705527   | 97.435   | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX080321\  
 Data File : VX023530.D  
 Acq On : 03 Aug 2021 16:42  
 Operator : JC/MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC020EC

Manual Integrations  
 APPROVED

MMDadoda  
 8/6/2021 5:39:36 PM

Quant Time: Aug 04 04:56:32 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X080321W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Tue Aug 03 12:05:42 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 43) Ethyl Acetate             | 4.721  | 43   | 80829    | 19.601  | ug/l  | 100      |
| 44) Isopropyl Acetate         | 6.348  | 43   | 124623   | 18.983  | ug/l  | 100      |
| 45) 1,4-Dioxane               | 7.659  | 88   | 25852    | 379.492 | ug/l  | 93       |
| 46) Methyl methacrylate       | 7.696  | 41   | 60175    | 19.006  | ug/l  | 98       |
| 47) n-amyl Acetate            | 10.848 | 43   | 107575   | 19.260  | ug/l  | 99       |
| 48) t-1,3-Dichloropropene     | 8.982  | 75   | 72768    | 18.503  | ug/l  | 100      |
| 49) cis-1,3-Dichloropropene   | 8.366  | 75   | 77680    | 18.625  | ug/l  | 97       |
| 50) 1,1,2-Trichloroethane     | 9.153  | 97   | 52942    | 19.750  | ug/l  | 96       |
| 51) Ethyl methacrylate        | 9.116  | 69   | 79061    | 18.706  | ug/l  | 97       |
| 52) 1,3-Dichloropropane       | 9.311  | 76   | 85529    | 19.437  | ug/l  | 98       |
| 53) Dibromochloromethane      | 9.525  | 129  | 48803    | 18.115  | ug/l  | 98       |
| 54) 1,2-Dibromoethane         | 9.610  | 107  | 55140    | 19.439  | ug/l  | 100      |
| 55) 2-Chloroethyl vinyl ether | 8.244  | 63   | 195322   | 92.536  | ug/l  | 99       |
| 56) Bromoform                 | 10.799 | 173  | 34318    | 17.753  | ug/l  | 100      |
| 58) 4-Methyl-2-Pentanone      | 8.574  | 43   | 410703   | 98.184  | ug/l  | 100      |
| 59) 2-Hexanone                | 9.433  | 43   | 321525   | 98.983  | ug/l  | 100      |
| 61) Tetrachloroethene         | 9.275  | 164  | 53842    | 20.653  | ug/l  | 98       |
| 62) Toluene                   | 8.720  | 91   | 217904   | 19.907  | ug/l  | 98       |
| 64) Chlorobenzene             | 10.079 | 112  | 134838   | 19.469  | ug/l  | 99       |
| 65) 1,1,1,2-Tetrachloroethane | 10.165 | 131  | 48312    | 18.842  | ug/l  | 100      |
| 66) Ethyl Benzene             | 10.195 | 91   | 239301   | 19.755  | ug/l  | 99       |
| 67) m/p-Xylenes               | 10.305 | 106  | 184287   | 39.337  | ug/l  | 99       |
| 68) o-Xylene                  | 10.646 | 106  | 90987    | 19.700  | ug/l  | 98       |
| 69) Styrene                   | 10.659 | 104  | 146586   | 19.259  | ug/l  | 99       |
| 70) Isopropylbenzene          | 10.963 | 105  | 239223   | 19.700  | ug/l  | 99       |
| 71) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 76210    | 19.618  | ug/l  | 100      |
| 72) 1,2,3-Trichloropropane    | 11.244 | 75   | 72802m   | 19.938  | ug/l  |          |
| 73) Bromobenzene              | 11.201 | 156  | 58180    | 19.679  | ug/l  | 98       |
| 74) n-propylbenzene           | 11.305 | 91   | 273319   | 19.437  | ug/l  | 99       |
| 75) 2-Chlorotoluene           | 11.366 | 91   | 162035   | 19.304  | ug/l  | 100      |
| 76) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 197213   | 19.583  | ug/l  | 98       |
| 77) t-1,4-Dichloro-2-butene   | 11.018 | 75   | 23350    | 17.914  | ug/l  | 96       |
| 78) 4-Chlorotoluene           | 11.457 | 91   | 181351   | 19.121  | ug/l  | 99       |
| 79) tert-butylbenzene         | 11.719 | 119  | 191801   | 19.606  | ug/l  | 99       |
| 80) 1,2,4-Trimethylbenzene    | 11.756 | 105  | 197320   | 19.771  | ug/l  | 99       |
| 81) sec-Butylbenzene          | 11.896 | 105  | 245448   | 19.589  | ug/l  | 100      |
| 82) p-Isopropyltoluene        | 12.012 | 119  | 202407   | 19.660  | ug/l  | 99       |
| 83) 1,3-Dichlorobenzene       | 11.969 | 146  | 103829   | 19.389  | ug/l  | 99       |
| 84) 1,4-Dichlorobenzene       | 12.043 | 146  | 102907   | 19.442  | ug/l  | 99       |
| 85) n-Butylbenzene            | 12.335 | 91   | 178567   | 19.606  | ug/l  | 99       |
| 86) Hexachloroethane          | 12.542 | 117  | 31075    | 18.571  | ug/l  | 100      |
| 87) 1,2-Dichlorobenzene       | 12.335 | 146  | 100972   | 19.540  | ug/l  | 98       |
| 88) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 14596    | 17.107  | ug/l  | 98       |
| 89) 1,2,4-Trichlorobenzene    | 13.591 | 180  | 60613    | 18.962  | ug/l  | 99       |
| 90) Hexachlorobutadiene       | 13.725 | 225  | 28575    | 19.929  | ug/l  | 98       |
| 91) Naphthalene               | 13.780 | 128  | 207169   | 18.870  | ug/l  | 100      |
| 92) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 61211    | 19.060  | ug/l  | 98       |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX080321\  
 Data File : VX023530.D  
 Acq On : 03 Aug 2021 16:42  
 Operator : JC/MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC020EC

Manual Integrations  
 APPROVED

MMDadoda  
 8/6/2021 5:39:36 PM

Quant Time: Aug 04 04:56:32 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X080321W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Tue Aug 03 12:05:42 2021  
 Response via : Initial Calibration

