

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX040723\  
 Data File : VX034963.D  
 Acq On : 07 Apr 2023 11:36  
 Operator : JC/MD  
 Sample : VX0407WBS02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0407WBS02

Manual Integrations  
 APPROVED

Reviewed By :John  
 Carlone

Quant Time: Apr 07 23:57:14 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X032823W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Tue Mar 28 09:11:00 2023  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|------------------------------|--------|-------|----------|----------|--------|----------|
| -----                        |        |       |          |          |        |          |
| Internal Standards           |        |       |          |          |        |          |
| 1) Bromochloromethane        | 4.897  | 128   | 31925    | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 6.757  | 114   | 183522   | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 10.055 | 117   | 202338   | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4    | 5.952  | 65    | 83976    | 27.376   | ug/l   | 0.00     |
| Spiked Amount                | 30.000 | Range | 91 - 110 | Recovery | =      | 91.267%  |
| 60) 4-Bromofluorobenzene     | 11.079 | 95    | 123089   | 30.445   | ug/l   | 0.00     |
| Spiked Amount                | 30.000 | Range | 63 - 112 | Recovery | =      | 101.467% |
| 63) Toluene-d8               | 8.647  | 98    | 201097   | 29.246   | ug/l   | 0.00     |
| Spiked Amount                | 30.000 | Range | 91 - 112 | Recovery | =      | 97.500%  |
| Target Compounds             |        |       |          |          |        |          |
|                              |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.166  | 85    | 56493    | 18.657   | ug/l   | 100      |
| 3) Chloromethane             | 1.294  | 50    | 63961    | 16.291   | ug/l   | 97       |
| 4) Vinyl Chloride            | 1.374  | 62    | 60426    | 15.599   | ug/l   | 99       |
| 5) Bromomethane              | 1.611  | 94    | 34590    | 13.576   | ug/l   | 98       |
| 6) Chloroethane              | 1.685  | 64    | 36548    | 14.498   | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 1.886  | 101   | 87036    | 14.105   | ug/l   | 98       |
| 8) Diethyl Ether             | 2.130  | 74    | 37379    | 16.827   | ug/l   | 98       |
| 9) 1,1,2-Trichlorotrifluo... | 2.331  | 101   | 52047    | 16.626   | ug/l   | 99       |
| 10) 1,1-Dichloroethene       | 2.319  | 96    | 47839    | 15.096   | ug/l   | 95       |
| 11) Methyl Iodide            | 2.453  | 142   | 50228    | 12.447   | ug/l   | 99       |
| 12) Methyl Acetate           | 2.703  | 43    | 125237   | 17.846   | ug/l   | 98       |
| 13) Acrolein                 | 2.233  | 56    | 69479    | 85.378   | ug/l   | 100      |
| 14) Acrylonitrile            | 3.062  | 53    | 168512   | 87.204   | ug/l   | 99       |
| 15) Acetone                  | 2.386  | 58    | 50231    | 95.748   | ug/l   | 97       |
| 16) Carbon Disulfide         | 2.514  | 76    | 112607   | 13.893   | ug/l   | 100      |
| 17) Allyl chloride           | 2.666  | 41    | 101616   | 16.571   | ug/l   | 95       |
| 18) Methylene Chloride       | 2.788  | 84    | 61217    | 16.399   | ug/l   | 97       |
| 19) trans-1,2-Dichloroethene | 3.087  | 96    | 54538    | 15.728   | ug/l   | 95       |
| 20) Diisopropyl ether        | 3.757  | 45    | 218309   | 17.378   | ug/l   | 88       |
| 21) 1,1-Dichloroethane       | 3.605  | 63    | 110808   | 16.496   | ug/l   | 99       |
| 22) cis-1,2-Dichloroethene   | 4.483  | 96    | 65852    | 16.306   | ug/l   | 97       |
| 23) tert-Butyl Alcohol       | 2.977  | 59    | 72476m   | 83.359   | ug/l   |          |
| 24) Methyl tert-Butyl Ether  | 3.111  | 73    | 205753   | 17.473   | ug/l   | 99       |
| 25) Chloroform               | 5.086  | 83    | 115796   | 16.948   | ug/l   | 98       |
| 26) Cyclohexane              | 5.464  | 56    | 89413    | 15.190   | ug/l # | 99       |
| 29) 1,1-Dichloropropene      | 5.690  | 75    | 79901    | 18.929   | ug/l   | 99       |
| 30) 2-Butanone               | 4.550  | 43    | 250492   | 106.412  | ug/l   | 99       |
| 31) 2,2-Dichloropropane      | 4.471  | 77    | 82698    | 19.319   | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 5.379  | 97    | 94793    | 19.143   | ug/l   | 100      |
| 33) Carbon Tetrachloride     | 5.672  | 117   | 79144    | 19.366   | ug/l   | 93       |
| 34) Benzene                  | 6.037  | 78    | 238737   | 19.463   | ug/l   | 98       |
| 35) Methacrylonitrile        | 4.916  | 41    | 54134    | 21.011   | ug/l   | 96       |
| 36) 1,2-Dichloroethane       | 6.086  | 62    | 101900   | 21.188   | ug/l   | 99       |
| 37) Trichloroethene          | 7.123  | 130   | 59725    | 19.132   | ug/l   | 98       |
| 38) Methylcyclohexane        | 7.379  | 83    | 83044    | 18.008   | ug/l   | 97       |
| 39) 1,2-Dichloropropane      | 7.427  | 63    | 63565    | 19.936   | ug/l   | 97       |
| 40) Dibromomethane           | 7.580  | 93    | 44570    | 20.349   | ug/l   | 98       |
| 41) Bromodichloromethane     | 7.818  | 83    | 83197    | 20.166   | ug/l # | 96       |
| 42) Vinyl Acetate            | 3.715  | 43    | 792854   | 103.242  | ug/l   | 100      |

04/10/2023  
 Supervised By :Mahesh  
 adoda

04/10/2023

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 Operator : JC/MD  
 Sample : VX0407WBS02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0407WBS02

Manual Integrations  
 APPROVED

Reviewed By :John  
 Carlone

Quant Time: Apr 07 23:57:14 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X032823W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Tue Mar 28 09:11:00 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 43) Ethyl Acetate             | 4.708  | 43   | 96696    | 21.180  | ug/l  | 98       |
| 44) Isopropyl Acetate         | 6.336  | 43   | 154098   | 19.939  | ug/l  | 99       |
| 45) 1,4-Dioxane               | 7.683  | 88   | 32893    | 429.592 | ug/l  | 96       |
| 46) Methyl methacrylate       | 7.690  | 41   | 78884    | 20.948  | ug/l  | 93       |
| 47) n-amyl Acetate            | 10.841 | 43   | 128979   | 19.196  | ug/l  | 99       |
| 48) t-1,3-Dichloropropene     | 8.976  | 75   | 86276    | 19.193  | ug/l  | 99       |
| 49) cis-1,3-Dichloropropene   | 8.366  | 75   | 96356    | 19.511  | ug/l  | 98       |
| 50) 1,1,2-Trichloroethane     | 9.153  | 97   | 61616    | 20.193  | ug/l  | 98       |
| 51) Ethyl methacrylate        | 9.116  | 69   | 98591    | 19.907  | ug/l  | 98       |
| 52) 1,3-Dichloropropane       | 9.305  | 76   | 114240   | 21.194  | ug/l  | 99       |
| 53) Dibromochloromethane      | 9.519  | 129  | 59941    | 19.857  | ug/l  | 99       |
| 54) 1,2-Dibromoethane         | 9.610  | 107  | 66076    | 20.244  | ug/l  | 99       |
| 55) 2-Chloroethyl vinyl ether | 8.238  | 63   | 274887   | 105.473 | ug/l  | 98       |
| 56) Bromoform                 | 10.799 | 173  | 38651    | 18.570  | ug/l  | 99       |
| 58) 4-Methyl-2-Pentanone      | 8.567  | 43   | 486862   | 104.946 | ug/l  | 99       |
| 59) 2-Hexanone                | 9.427  | 43   | 366678   | 104.978 | ug/l  | 99       |
| 61) Tetrachloroethene         | 9.275  | 164  | 52299    | 19.183  | ug/l  | 97       |
| 62) Toluene                   | 8.714  | 91   | 257411   | 19.456  | ug/l  | 100      |
| 64) Chlorobenzene             | 10.079 | 112  | 161758   | 19.854  | ug/l  | 99       |
| 65) 1,1,1,2-Tetrachloroethane | 10.159 | 131  | 58491    | 20.082  | ug/l  | 99       |
| 66) Ethyl Benzene             | 10.195 | 91   | 286223   | 19.423  | ug/l  | 97       |
| 67) m/p-Xylenes               | 10.299 | 106  | 219233   | 39.101  | ug/l  | 99       |
| 68) o-Xylene                  | 10.640 | 106  | 108837   | 19.629  | ug/l  | 97       |
| 69) Styrene                   | 10.652 | 104  | 178564   | 19.535  | ug/l  | 99       |
| 70) Isopropylbenzene          | 10.963 | 105  | 277966   | 19.370  | ug/l  | 99       |
| 71) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 95628    | 20.273  | ug/l  | 100      |
| 72) 1,2,3-Trichloropropane    | 11.238 | 75   | 82633m   | 19.245  | ug/l  |          |
| 73) Bromobenzene              | 11.195 | 156  | 68345    | 19.831  | ug/l  | 95       |
| 74) n-propylbenzene           | 11.305 | 91   | 318682   | 19.077  | ug/l  | 100      |
| 75) 2-Chlorotoluene           | 11.366 | 91   | 206570   | 19.835  | ug/l  | 98       |
| 76) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 234358   | 19.401  | ug/l  | 99       |
| 77) t-1,4-Dichloro-2-butene   | 11.018 | 75   | 22159    | 16.804  | ug/l  | 94       |
| 78) 4-Chlorotoluene           | 11.451 | 91   | 238849   | 20.005  | ug/l  | 99       |
| 79) tert-butylbenzene         | 11.713 | 119  | 218559   | 18.953  | ug/l  | 99       |
| 80) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 237591   | 19.792  | ug/l  | 98       |
| 81) sec-Butylbenzene          | 11.890 | 105  | 263192   | 18.836  | ug/l  | 99       |
| 82) p-Isopropyltoluene        | 12.006 | 119  | 221371   | 18.774  | ug/l  | 99       |
| 83) 1,3-Dichlorobenzene       | 11.969 | 146  | 126638   | 19.458  | ug/l  | 98       |
| 84) 1,4-Dichlorobenzene       | 12.042 | 146  | 129510   | 19.816  | ug/l  | 100      |
| 85) n-Butylbenzene            | 12.329 | 91   | 186881   | 18.390  | ug/l  | 100      |
| 86) Hexachloroethane          | 12.536 | 117  | 32148    | 16.646  | ug/l  | 99       |
| 87) 1,2-Dichlorobenzene       | 12.335 | 146  | 128667   | 20.204  | ug/l  | 99       |
| 88) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 19838    | 19.246  | ug/l  | 93       |
| 89) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 73020    | 19.114  | ug/l  | 98       |
| 90) Hexachlorobutadiene       | 13.725 | 225  | 30653    | 20.806  | ug/l  | 99       |
| 91) Naphthalene               | 13.774 | 128  | 267936   | 19.851  | ug/l  | 100      |
| 92) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 76844    | 20.121  | ug/l  | 98       |

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

## Manual Integrations APPROVED

Quant Time: Apr 07 23:57:14 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X032823W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Tue Mar 28 09:11:00 2023  
Response via : Initial Calibration

