

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062620\  
 Data File : VX016999.D  
 Acq On : 26 Jun 2020 23:18  
 Operator : JC/SP  
 Sample : VX0626WBS02  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0626WBS02

Manual Integrations  
 APPROVED

MMDadoda  
 6/29/2020 12:32:50 PM

Quant Time: Jun 27 02:56:37 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X062520W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Jun 26 09:03:25 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 4.98  | 128  | 55948    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 6.83  | 114  | 298985   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 10.10 | 117  | 278355   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 6.03   | 65    | 125352   | 28.79    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 95.97%  |
| 60) 4-Bromofluorobenzene  | 11.12  | 95    | 140860   | 30.34    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 101.13% |
| 63) Toluene-d8            | 8.70   | 98    | 371140   | 30.25    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 100.83% |

## Target Compounds

|                               |      |     |        |             | Ovalue |
|-------------------------------|------|-----|--------|-------------|--------|
| 2) Dichlorodifluoromethane    | 1.18 | 85  | 58677  | 21.567 ug/l | 98     |
| 3) Chloromethane              | 1.32 | 50  | 68531  | 18.575 ug/l | 100    |
| 4) Vinyl Chloride             | 1.39 | 62  | 65043  | 17.288 ug/l | 95     |
| 5) Bromomethane               | 1.64 | 94  | 43075  | 15.900 ug/l | 100    |
| 6) Chloroethane               | 1.72 | 64  | 39682  | 16.353 ug/l | 99     |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 97408  | 15.919 ug/l | 97     |
| 8) Diethyl Ether              | 2.17 | 74  | 36721  | 16.493 ug/l | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101 | 59020  | 18.174 ug/l | 94     |
| 10) 1,1-Dichloroethene        | 2.36 | 96  | 59238  | 18.495 ug/l | 92     |
| 11) Methyl Iodide             | 2.49 | 142 | 70076  | 16.386 ug/l | 94     |
| 12) Methyl Acetate            | 2.75 | 43  | 76291  | 18.883 ug/l | 97     |
| 13) Acrolein                  | 2.27 | 56  | 48892  | 76.694 ug/l | 99     |
| 14) Acrylonitrile             | 3.12 | 53  | 180206 | 94.176 ug/l | 99     |
| 15) Acetone                   | 2.42 | 58  | 47218  | 95.353 ug/l | 99     |
| 16) Carbon Disulfide          | 2.55 | 76  | 174036 | 17.285 ug/l | 99     |
| 17) Allyl chloride            | 2.71 | 41  | 110508 | 18.431 ug/l | 95     |
| 18) Methylene Chloride        | 2.84 | 84  | 70880  | 18.373 ug/l | 95     |
| 19) trans-1,2-Dichloroethene  | 3.14 | 96  | 66920  | 18.441 ug/l | 98     |
| 20) Diisopropyl ether         | 3.82 | 45  | 229037 | 19.114 ug/l | 95     |
| 21) 1,1-Dichloroethane        | 3.67 | 63  | 123235 | 18.651 ug/l | 99     |
| 22) cis-1,2-Dichloroethene    | 4.56 | 96  | 75412  | 18.665 ug/l | 95     |
| 23) tert-Butyl Alcohol        | 3.01 | 59  | 75111  | 88.614 ug/l | # 100  |
| 24) Methyl tert-Butyl Ether   | 3.17 | 73  | 210306 | 18.389 ug/l | 97     |
| 25) Chloroform                | 5.18 | 83  | 125960 | 18.803 ug/l | 100    |
| 26) Cyclohexane               | 5.55 | 56  | 101656 | 17.637 ug/l | # 100  |
| 29) 1,1-Dichloropropene       | 5.77 | 75  | 88506  | 18.171 ug/l | 98     |
| 30) 2-Butanone                | 4.64 | 43  | 250579 | 98.702 ug/l | 98     |
| 31) 2,2-Dichloropropane       | 4.56 | 77  | 88839  | 15.904 ug/l | 100    |
| 32) 1,1,1-Trichloroethane     | 5.46 | 97  | 112209 | 19.039 ug/l | 98     |
| 33) Carbon Tetrachloride      | 5.76 | 117 | 100985 | 19.321 ug/l | 99     |
| 34) Benzene                   | 6.12 | 78  | 270609 | 19.081 ug/l | 98     |
| 35) Methacrylonitrile         | 5.01 | 41  | 56621  | 20.209 ug/l | 94     |
| 36) 1,2-Dichloroethane        | 6.17 | 62  | 100608 | 18.523 ug/l | 100    |
| 37) Trichloroethene           | 7.18 | 130 | 87297  | 22.558 ug/l | 93     |
| 38) Methylcyclohexane         | 7.44 | 83  | 96824  | 17.456 ug/l | 96     |
| 39) 1,2-Dichloropropane       | 7.49 | 63  | 70878  | 19.183 ug/l | 95     |
| 40) Dibromomethane            | 7.64 | 93  | 48603  | 19.086 ug/l | 97     |

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| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 41) Bromodichloromethane       | 7.88  | 83   | 100599   | 19.078  | ug/l  | 93       |
| 42) Vinyl Acetate              | 3.79  | 43   | 955761   | 93.421  | ug/l  | 99       |
| 43) Ethyl Acetate              | 4.79  | 43   | 99049    | 18.835  | ug/l  | 100      |
| 44) Isopropyl Acetate          | 6.41  | 43   | 155596   | 17.951  | ug/l  | 98       |
| 45) 1,4-Dioxane                | 7.71  | 88   | 35505    | 406.019 | ug/l  | 96       |
| 46) Methyl methacrylate        | 7.74  | 41   | 75782    | 18.892  | ug/l  | 94       |
| 47) n-amyl Acetate             | 10.88 | 43   | 135960   | 17.745  | ug/l  | 98       |
| 48) t-1,3-Dichloropropene      | 9.02  | 75   | 104978   | 18.006  | ug/l  | 97       |
| 49) cis-1,3-Dichloropropene    | 8.42  | 75   | 113583   | 18.537  | ug/l  | 97       |
| 50) 1,1,2-Trichloroethane      | 9.20  | 97   | 69640    | 19.595  | ug/l  | 98       |
| 51) Ethyl methacrylate         | 9.16  | 69   | 99345    | 18.215  | ug/l  | 96       |
| 52) 1,3-Dichloropropane        | 9.35  | 76   | 116152   | 19.037  | ug/l  | 96       |
| 53) Dibromochloromethane       | 9.57  | 129  | 79867    | 19.553  | ug/l  | 98       |
| 54) 1,2-Dibromoethane          | 9.65  | 107  | 74355    | 19.717  | ug/l  | 99       |
| 55) 2-Chloroethyl vinyl ether  | 8.29  | 63   | 285158   | 99.355  | ug/l  | 99       |
| 56) Bromoform                  | 10.84 | 173  | 56106    | 19.350  | ug/l  | 99       |
| 58) 4-Methyl-2-Pentanone       | 8.62  | 43   | 498279   | 97.180  | ug/l  | 99       |
| 59) 2-Hexanone                 | 9.47  | 43   | 365492   | 95.513  | ug/l  | 98       |
| 61) Tetrachloroethene          | 9.32  | 164  | 66518    | 18.738  | ug/l  | 93       |
| 62) Toluene                    | 8.76  | 91   | 292403   | 19.206  | ug/l  | 99       |
| 64) Chlorobenzene              | 10.12 | 112  | 183520   | 19.241  | ug/l  | 95       |
| 65) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 71005    | 19.774  | ug/l  | 98       |
| 66) Ethyl Benzene              | 10.24 | 91   | 315469   | 18.685  | ug/l  | 97       |
| 67) m/p-Xylenes                | 10.34 | 106  | 245393   | 38.529  | ug/l  | 97       |
| 68) o-Xylene                   | 10.68 | 106  | 114207   | 18.667  | ug/l  | 100      |
| 69) Styrene                    | 10.70 | 104  | 198984   | 18.995  | ug/l  | 97       |
| 70) Isopropylbenzene           | 11.00 | 105  | 312649   | 18.842  | ug/l  | 98       |
| 71) 1,1,2,2-Tetrachloroethane  | 11.25 | 83   | 99568    | 19.538  | ug/l  | 97       |
| 72) 1,2,3-Trichloropropane     | 11.28 | 75   | 97369m   | 19.896  | ug/l  |          |
| 73) Bromobenzene               | 11.24 | 156  | 79537    | 18.992  | ug/l  | 95       |
| 74) n-propylbenzene            | 11.34 | 91   | 359278   | 18.235  | ug/l  | 99       |
| 75) 2-Chlorotoluene            | 11.40 | 91   | 217261   | 18.910  | ug/l  | 100      |
| 76) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 262986   | 18.881  | ug/l  | 99       |
| 77) t-1,4-Dichloro-2-butene    | 11.05 | 75   | 34257    | 17.273  | ug/l  | 93       |
| 78) 4-Chlorotoluene            | 11.49 | 91   | 257778   | 18.950  | ug/l  | 99       |
| 79) tert-butylbenzene          | 11.76 | 119  | 251328   | 18.836  | ug/l  | 99       |
| 80) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 267835   | 19.154  | ug/l  | 99       |
| 81) sec-Butylbenzene           | 11.93 | 105  | 294798   | 18.248  | ug/l  | 99       |
| 82) p-Isopropyltoluene         | 12.05 | 119  | 269396   | 18.469  | ug/l  | 99       |
| 83) 1,3-Dichlorobenzene        | 12.01 | 146  | 141819   | 18.897  | ug/l  | 98       |
| 84) 1,4-Dichlorobenzene        | 12.08 | 146  | 146590   | 19.441  | ug/l  | 100      |
| 85) n-Butylbenzene             | 12.37 | 91   | 233878   | 17.322  | ug/l  | 99       |
| 86) Hexachloroethane           | 12.58 | 117  | 54047    | 18.933  | ug/l  | 97       |
| 87) 1,2-Dichlorobenzene        | 12.38 | 146  | 138201   | 19.674  | ug/l  | 99       |
| 88) 1,2-Dibromo-3-Chloropropan | 12.98 | 75   | 22559    | 19.457  | ug/l  | 99       |
| 89) 1,2,4-Trichlorobenzene     | 13.63 | 180  | 88658    | 18.707  | ug/l  | 97       |
| 90) Hexachlorobutadiene        | 13.77 | 225  | 34106    | 18.918  | ug/l  | 98       |
| 91) Naphthalene                | 13.82 | 128  | 295936   | 19.051  | ug/l  | 99       |
| 92) 1,2,3-Trichlorobenzene     | 14.00 | 180  | 88558    | 19.148  | ug/l  | 99       |

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

