

Data File : VU025619.D  
Acq On : 24 Jul 2018 10:10  
Operator : MD/SY  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD05066

Quant Time: Jul 25 02:21:32 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM072018WMA.M  
Quant Title : VOC Analysis  
QLast Update : Tue Jul 24 02:07:37 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 311553   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 295447   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 161316   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 94554    | 53.16    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 106.32% |
| 7) Chloroethane-d5             | 1.68    | 69    | 76777    | 52.33    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 104.66% |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 190152   | 51.35    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 102.70% |
| 21) 2-Butanone-d5              | 4.18    | 46    | 150964   | 109.94   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 109.94% |
| 24) Chloroform-d               | 4.65    | 84    | 208331   | 52.58    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 105.16% |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 134045   | 51.16    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 102.32% |
| 32) Benzene-d6                 | 5.35    | 84    | 390898   | 51.59    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 103.18% |
| 36) 1,2-Dichloropropane-d6     | 6.34    | 67    | 123303   | 50.50    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 101.00% |
| 41) Toluene-d8                 | 7.57    | 98    | 378555   | 52.09    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 104.18% |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 65806    | 52.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 105.54% |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 108848   | 106.47   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 106.47% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.44   | 84    | 178279   | 52.21    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 104.42% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 164020   | 50.17    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 100.34% |

#### Target Compounds

|                                |      |     |        |             | Qvalue |
|--------------------------------|------|-----|--------|-------------|--------|
| 2) Dichlorodifluoromethane     | 1.21 | 85  | 134643 | 43.862 ug/L | 100    |
| 3) Chloromethane               | 1.33 | 50  | 108458 | 48.924 ug/L | 100    |
| 5) Vinyl chloride              | 1.41 | 62  | 106262 | 43.703 ug/L | 100    |
| 6) Bromomethane                | 1.63 | 94  | 49116  | 58.086 ug/L | 92     |
| 8) Chloroethane                | 1.70 | 64  | 62126  | 43.392 ug/L | 99     |
| 9) Trichlorofluoromethane      | 1.89 | 101 | 154220 | 44.540 ug/L | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.29 | 101 | 91648  | 47.266 ug/L | 99     |
| 12) 1,1-Dichloroethene         | 2.28 | 96  | 81142  | 46.149 ug/L | 89     |
| 13) Acetone                    | 2.32 | 43  | 143394 | 88.970 ug/L | 98     |
| 14) Carbon disulfide           | 2.48 | 76  | 248015 | 43.320 ug/L | 100    |
| 15) Methyl Acetate             | 2.62 | 43  | 104014 | 46.686 ug/L | 99     |
| 16) Methylene chloride         | 2.70 | 84  | 97287  | 44.418 ug/L | 98     |
| 17) trans-1,2-Dichloroethene   | 2.99 | 96  | 92179  | 45.534 ug/L | 97     |
| 18) Methyl tert-butyl Ether    | 3.00 | 73  | 302807 | 45.929 ug/L | 99     |
| 19) 1,1-Dichloroethane         | 3.45 | 63  | 174034 | 45.194 ug/L | 99     |
| 20) cis-1,2-Dichloroethene     | 4.23 | 96  | 102211 | 44.730 ug/L | 91     |
| 22) 2-Butanone                 | 4.26 | 43  | 162177 | 90.387 ug/L | 99     |

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Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 4.55  | 128  | 54907    | 45.524 | ug/L  | 98       |
| 25) Chloroform                 | 4.68  | 83   | 184160   | 45.447 | ug/L  | 98       |
| 27) 1,2-Dichloroethane         | 5.41  | 62   | 152505   | 46.142 | ug/L  | 99       |
| 29) Cyclohexane                | 5.00  | 56   | 151957   | 44.394 | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane      | 4.92  | 97   | 166145   | 44.940 | ug/L  | 100      |
| 31) Carbon tetrachloride       | 5.14  | 117  | 152387   | 44.577 | ug/L  | 99       |
| 33) Benzene                    | 5.39  | 78   | 383572   | 45.184 | ug/L  | 100      |
| 34) Trichloroethene            | 6.19  | 95   | 104129   | 46.230 | ug/L  | 99       |
| 35) Methylcyclohexane          | 6.42  | 83   | 169047   | 46.546 | ug/L  | 98       |
| 37) 1,2-Dichloropropane        | 6.44  | 63   | 104352   | 44.983 | ug/L  | 100      |
| 38) Bromodichloromethane       | 6.76  | 83   | 140760   | 46.022 | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene    | 7.27  | 75   | 170027   | 47.229 | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone       | 7.46  | 43   | 291763   | 95.774 | ug/L  | 100      |
| 42) Toluene                    | 7.64  | 91   | 420614   | 45.945 | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene  | 7.88  | 75   | 162481   | 47.868 | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane      | 8.07  | 97   | 98307    | 44.180 | ug/L  | 97       |
| 46) Tetrachloroethene          | 8.23  | 164  | 93024    | 47.639 | ug/L  | 96       |
| 48) 2-Hexanone                 | 8.36  | 43   | 238812   | 92.773 | ug/L  | 99       |
| 49) Dibromochloromethane       | 8.48  | 129  | 121355   | 46.493 | ug/L  | 98       |
| 50) 1,2-Dibromoethane          | 8.59  | 107  | 109590   | 45.715 | ug/L  | 99       |
| 51) Chlorobenzene              | 9.12  | 112  | 284217   | 46.115 | ug/L  | 98       |
| 52) Ethylbenzene               | 9.25  | 91   | 475522   | 47.061 | ug/L  | 100      |
| 53) m,p-Xylene                 | 9.38  | 106  | 182660   | 47.195 | ug/L  | 98       |
| 54) o-xylene                   | 9.78  | 106  | 180828   | 46.045 | ug/L  | 99       |
| 55) Styrene                    | 9.80  | 104  | 311903   | 48.764 | ug/L  | 99       |
| 56) Isopropylbenzene           | 10.17 | 105  | 482299   | 47.588 | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.46 | 83   | 164021   | 45.699 | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.50 | 75   | 122320   | 44.892 | ug/L  | 99       |
| 61) Bromoform                  | 9.96  | 173  | 91796    | 43.993 | ug/L  | 98       |
| 62) 1,3-Dichlorobenzene        | 11.42 | 146  | 238769   | 46.792 | ug/L  | 98       |
| 63) 1,4-Dichlorobenzene        | 11.51 | 146  | 244779   | 46.994 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 11.88 | 146  | 239782   | 44.854 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.66 | 75   | 38158    | 45.386 | ug/L  | 96       |
| 67) 1,3,5-Trichlorobenzene     | 12.89 | 180  | 194890   | 49.480 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.51 | 180  | 167658   | 50.647 | ug/L  | 99       |
| 69) Naphthalene                | 13.75 | 128  | 478841   | 48.101 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.99 | 180  | 169846   | 48.536 | ug/L  | 99       |

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

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