

Data File : VU025485.D  
Acq On : 18 Jul 2018 09:38  
Operator : MD/SY  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD05049

Quant Time: Jul 19 01:03:34 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM071718WMA.M  
Quant Title : VOC Analysis  
QLast Update : Wed Jul 18 06:47:36 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 336994   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 314645   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 167181   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 77995    | 49.08    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 98.16%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 67887    | 50.14    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 100.28% |
| 11) 1,1-Dichloroethene-d2      | 2.28    | 63    | 177738   | 50.93    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 101.86% |
| 21) 2-Butanone-d5              | 4.17    | 46    | 150368   | 88.92    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 88.92%  |
| 24) Chloroform-d               | 4.65    | 84    | 203954   | 49.47    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 98.94%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 136636   | 48.70    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.40%  |
| 32) Benzene-d6                 | 5.35    | 84    | 374917   | 49.31    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 98.62%  |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 122618   | 48.70    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 97.40%  |
| 41) Toluene-d8                 | 7.57    | 98    | 357534   | 48.58    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 97.16%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 62839    | 47.94    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 95.88%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 108433   | 83.06    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 83.06%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.44   | 84    | 178866   | 47.84    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 95.68%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 159879   | 47.72    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 95.44%  |

#### Target Compounds

|                                |      |     |        |         |      | Qvalue |
|--------------------------------|------|-----|--------|---------|------|--------|
| 2) Dichlorodifluoromethane     | 1.21 | 85  | 142767 | 51.494  | ug/L | 99     |
| 3) Chloromethane               | 1.33 | 50  | 117161 | 47.753  | ug/L | 97     |
| 5) Vinyl chloride              | 1.41 | 62  | 120474 | 48.836  | ug/L | 99     |
| 6) Bromomethane                | 1.63 | 94  | 68984  | 51.307  | ug/L | 99     |
| 8) Chloroethane                | 1.70 | 64  | 73590  | 49.848  | ug/L | 100    |
| 9) Trichlorofluoromethane      | 1.89 | 101 | 183197 | 50.514  | ug/L | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.29 | 101 | 108661 | 55.184  | ug/L | 99     |
| 12) 1,1-Dichloroethene         | 2.29 | 96  | 93312  | 51.086  | ug/L | 99     |
| 13) Acetone                    | 2.32 | 43  | 179297 | 121.415 | ug/L | 99     |
| 14) Carbon disulfide           | 2.48 | 76  | 280152 | 47.466  | ug/L | 100    |
| 15) Methyl Acetate             | 2.62 | 43  | 118260 | 43.333  | ug/L | 98     |
| 16) Methylene chloride         | 2.71 | 84  | 115434 | 48.325  | ug/L | 99     |
| 17) trans-1,2-Dichloroethene   | 2.99 | 96  | 107778 | 49.886  | ug/L | 98     |
| 18) Methyl tert-butyl Ether    | 3.00 | 73  | 367238 | 47.972  | ug/L | 99     |
| 19) 1,1-Dichloroethane         | 3.45 | 63  | 209577 | 48.492  | ug/L | 98     |
| 20) cis-1,2-Dichloroethene     | 4.23 | 96  | 124634 | 47.117  | ug/L | 98     |
| 22) 2-Butanone                 | 4.26 | 43  | 206088 | 101.390 | ug/L | 100    |

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ClientSampleId :  
VSTD05049

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Quant Title : VOC Analysis  
QLast Update : Wed Jul 18 06:47:36 2018  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 4.55  | 128  | 65755    | 49.595 | ug/L  | 97       |
| 25) Chloroform                 | 4.68  | 83   | 222594   | 49.014 | ug/L  | 95       |
| 27) 1,2-Dichloroethane         | 5.41  | 62   | 182316   | 48.342 | ug/L  | 98       |
| 29) Cyclohexane                | 5.00  | 56   | 181512   | 50.096 | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane      | 4.92  | 97   | 202773   | 48.427 | ug/L  | 99       |
| 31) Carbon tetrachloride       | 5.14  | 117  | 182565   | 49.631 | ug/L  | 100      |
| 33) Benzene                    | 5.39  | 78   | 453981   | 48.771 | ug/L  | 100      |
| 34) Trichloroethene            | 6.19  | 95   | 120105   | 48.741 | ug/L  | 98       |
| 35) Methylcyclohexane          | 6.42  | 83   | 197251   | 52.724 | ug/L  | 99       |
| 37) 1,2-Dichloropropane        | 6.44  | 63   | 126896   | 49.418 | ug/L  | 99       |
| 38) Bromodichloromethane       | 6.76  | 83   | 166985   | 48.162 | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene    | 7.27  | 75   | 200018   | 50.274 | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone       | 7.46  | 43   | 326015   | 87.540 | ug/L  | 99       |
| 42) Toluene                    | 7.64  | 91   | 494219   | 49.794 | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene  | 7.88  | 75   | 190413   | 49.854 | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane      | 8.07  | 97   | 118087   | 48.503 | ug/L  | 98       |
| 46) Tetrachloroethene          | 8.23  | 164  | 106151   | 51.639 | ug/L  | 98       |
| 48) 2-Hexanone                 | 8.36  | 43   | 288478   | 96.953 | ug/L  | 99       |
| 49) Dibromochloromethane       | 8.48  | 129  | 142951   | 48.503 | ug/L  | 98       |
| 50) 1,2-Dibromoethane          | 8.59  | 107  | 127210   | 47.339 | ug/L  | 99       |
| 51) Chlorobenzene              | 9.12  | 112  | 331204   | 49.732 | ug/L  | 99       |
| 52) Ethylbenzene               | 9.25  | 91   | 560644   | 50.602 | ug/L  | 98       |
| 53) m,p-Xylene                 | 9.38  | 106  | 216519   | 50.987 | ug/L  | 95       |
| 54) o-xylene                   | 9.78  | 106  | 214443   | 50.056 | ug/L  | 98       |
| 55) Styrene                    | 9.80  | 104  | 363088   | 51.315 | ug/L  | 100      |
| 56) Isopropylbenzene           | 10.17 | 105  | 569839   | 51.363 | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.46 | 83   | 194071   | 46.300 | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.50 | 75   | 155868   | 45.645 | ug/L  | 98       |
| 61) Bromoform                  | 9.96  | 173  | 104983   | 44.517 | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene        | 11.42 | 146  | 269236   | 48.590 | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene        | 11.51 | 146  | 269845   | 48.191 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 11.88 | 146  | 280264   | 47.902 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.66 | 75   | 43390    | 39.629 | ug/L  | 96       |
| 67) 1,3,5-Trichlorobenzene     | 12.89 | 180  | 216226   | 50.769 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.51 | 180  | 187006   | 49.242 | ug/L  | 99       |
| 69) Naphthalene                | 13.74 | 128  | 573024   | 43.608 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.99 | 180  | 196815   | 48.052 | ug/L  | 99       |

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

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ALS Vial     : 2      Sample Multiplier: 1
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