

Data File : VU026826.D  
Acq On : 17 Sep 2018 17:16  
Operator : MD/SY  
Sample : VSTDICV050  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VICV50

Quant Time: Sep 18 01:35:02 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091718WMA.M  
Quant Title : VOC Analysis  
QLast Update : Tue Sep 18 01:34:58 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 266874   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 258266   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 133747   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 94574    | 47.91    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 95.82%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 81106    | 48.00    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 96.00%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 180049   | 48.20    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 96.40%  |
| 21) 2-Butanone-d5              | 4.17    | 46    | 133431   | 101.85   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 101.85% |
| 24) Chloroform-d               | 4.65    | 84    | 179715   | 49.08    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 98.16%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 113442   | 49.20    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 98.40%  |
| 32) Benzene-d6                 | 5.34    | 84    | 366926   | 50.70    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 101.40% |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 115271   | 49.43    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 98.86%  |
| 41) Toluene-d8                 | 7.57    | 98    | 338672   | 51.79    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 103.58% |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 52369    | 50.30    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 100.60% |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 99409    | 108.46   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 108.46% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 160374   | 49.32    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 98.64%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 136026   | 48.89    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 97.78%  |

#### Target Compounds

|                                |      |     |        |             | Qvalue |
|--------------------------------|------|-----|--------|-------------|--------|
| 2) Dichlorodifluoromethane     | 1.20 | 85  | 122645 | 48.627 ug/L | 100    |
| 3) Chloromethane               | 1.33 | 50  | 120399 | 46.798 ug/L | 99     |
| 5) Vinyl chloride              | 1.40 | 62  | 121475 | 48.518 ug/L | 98     |
| 6) Bromomethane                | 1.62 | 94  | 62437  | 50.490 ug/L | 96     |
| 8) Chloroethane                | 1.69 | 64  | 76132  | 48.523 ug/L | 100    |
| 9) Trichlorofluoromethane      | 1.88 | 101 | 151724 | 48.773 ug/L | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.29 | 101 | 90679  | 49.209 ug/L | 98     |
| 12) 1,1-Dichloroethene         | 2.28 | 96  | 83987  | 48.529 ug/L | 98     |
| 13) Acetone                    | 2.32 | 43  | 108305 | 84.109 ug/L | 100    |
| 14) Carbon disulfide           | 2.48 | 76  | 289497 | 48.474 ug/L | 99     |
| 15) Methyl Acetate             | 2.61 | 43  | 109107 | 48.904 ug/L | 99     |
| 16) Methylene chloride         | 2.70 | 84  | 105326 | 47.875 ug/L | 100    |
| 17) trans-1,2-Dichloroethene   | 2.98 | 96  | 93775  | 49.198 ug/L | 99     |
| 18) Methyl tert-butyl Ether    | 3.00 | 73  | 285050 | 51.140 ug/L | 100    |
| 19) 1,1-Dichloroethane         | 3.45 | 63  | 181104 | 49.262 ug/L | 100    |
| 20) cis-1,2-Dichloroethene     | 4.22 | 96  | 104254 | 49.731 ug/L | 100    |
| 22) 2-Butanone                 | 4.26 | 43  | 155353 | 97.832 ug/L | 99     |

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| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 23) Bromochloromethane         | 4.55  | 128  | 55530    | 49.060  | ug/L  | 99       |
| 25) Chloroform                 | 4.67  | 83   | 179663   | 48.250  | ug/L  | 98       |
| 27) 1,2-Dichloroethane         | 5.40  | 62   | 142523   | 49.049  | ug/L  | 99       |
| 29) Cyclohexane                | 5.00  | 56   | 160160   | 53.410  | ug/L  | 100      |
| 30) 1,1,1-Trichloroethane      | 4.92  | 97   | 150508   | 48.985  | ug/L  | 100      |
| 31) Carbon tetrachloride       | 5.14  | 117  | 135525   | 49.222  | ug/L  | 100      |
| 33) Benzene                    | 5.39  | 78   | 406040   | 50.709  | ug/L  | 100      |
| 34) Trichloroethene            | 6.19  | 95   | 96188    | 50.061  | ug/L  | 99       |
| 35) Methylcyclohexane          | 6.42  | 83   | 166181   | 53.057  | ug/L  | 98       |
| 37) 1,2-Dichloropropane        | 6.43  | 63   | 110288   | 50.140  | ug/L  | 100      |
| 38) Bromodichloromethane       | 6.76  | 83   | 134105   | 49.163  | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene    | 7.27  | 75   | 158098   | 50.882  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone       | 7.46  | 43   | 272436   | 104.239 | ug/L  | 100      |
| 42) Toluene                    | 7.64  | 91   | 421614   | 52.031  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene  | 7.88  | 75   | 148731   | 51.123  | ug/L  | 97       |
| 45) 1,1,2-Trichloroethane      | 8.07  | 97   | 99755    | 49.744  | ug/L  | 98       |
| 46) Tetrachloroethene          | 8.23  | 164  | 85034    | 49.922  | ug/L  | 99       |
| 48) 2-Hexanone                 | 8.36  | 43   | 220076   | 104.390 | ug/L  | 99       |
| 49) Dibromochloromethane       | 8.48  | 129  | 110594   | 48.720  | ug/L  | 98       |
| 50) 1,2-Dibromoethane          | 8.59  | 107  | 103352   | 49.435  | ug/L  | 99       |
| 51) Chlorobenzene              | 9.12  | 112  | 272396   | 49.542  | ug/L  | 99       |
| 52) Ethylbenzene               | 9.25  | 91   | 449371   | 52.942  | ug/L  | 99       |
| 53) m,p-Xylene                 | 9.38  | 106  | 176577   | 54.115  | ug/L  | 99       |
| 54) o-xylene                   | 9.78  | 106  | 172103   | 54.132  | ug/L  | 97       |
| 55) Styrene                    | 9.79  | 104  | 298677   | 54.413  | ug/L  | 99       |
| 56) Isopropylbenzene           | 10.17 | 105  | 438271   | 53.966  | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.46 | 83   | 163870   | 48.584  | ug/L  | 100      |
| 59) 1,2,3-Trichloropropane     | 10.49 | 75   | 127636   | 48.443  | ug/L  | 100      |
| 61) Bromoform                  | 9.96  | 173  | 82490    | 46.901  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene        | 11.42 | 146  | 204401   | 50.132  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene        | 11.51 | 146  | 218518   | 48.672  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 11.88 | 146  | 224589   | 49.748  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.66 | 75   | 32494    | 47.444  | ug/L  | 96       |
| 67) 1,3,5-Trichlorobenzene     | 12.89 | 180  | 161589   | 51.215  | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene     | 13.50 | 180  | 139500   | 51.308  | ug/L  | 99       |
| 69) Naphthalene                | 13.75 | 128  | 442088   | 55.193  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.99 | 180  | 157544   | 52.619  | ug/L  | 99       |

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

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