

Data File : VU026820.D  
Acq On : 17 Sep 2018 13:14  
Operator : MD/SY  
Sample : VSTD01050  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD01050

Quant Time: Sep 18 00:58:25 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091718WMA.M  
Quant Title : VOC Analysis  
QLast Update : Tue Sep 18 00:50:30 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 234390   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 228200   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 101153   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |       |     |       |       |      |      |
|--------------------------------|-------|-----|-------|-------|------|------|
| 4) Vinyl Chloride-d3           | 1.40  | 65  | 18378 | 10.60 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.68  | 69  | 16252 | 10.95 | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.28  | 63  | 34102 | 10.39 | ug/L | 0.00 |
| 21) 2-Butanone-d5              | 4.18  | 46  | 21998 | 19.12 | ug/L | 0.00 |
| 24) Chloroform-d               | 4.65  | 84  | 32246 | 10.03 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.31  | 65  | 21599 | 10.67 | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.34  | 84  | 63146 | 9.87  | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.33  | 67  | 20874 | 10.13 | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.57  | 98  | 54150 | 9.37  | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 7.85  | 79  | 8760  | 9.52  | ug/L | 0.00 |
| 47) 2-Hexanone-d5              | 8.31  | 63  | 12697 | 15.68 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43 | 84  | 29095 | 10.13 | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 11.86 | 152 | 21572 | 10.25 | ug/L | 0.00 |

#### Target Compounds

|                                |      |     |       |        |      | Qvalue |
|--------------------------------|------|-----|-------|--------|------|--------|
| 2) Dichlorodifluoromethane     | 1.21 | 85  | 22922 | 10.348 | ug/L | 100    |
| 3) Chloromethane               | 1.33 | 50  | 24297 | 10.753 | ug/L | 99     |
| 5) Vinyl chloride              | 1.40 | 62  | 22164 | 10.079 | ug/L | 96     |
| 6) Bromomethane                | 1.63 | 94  | 10595 | 9.755  | ug/L | 97     |
| 8) Chloroethane                | 1.70 | 64  | 14584 | 10.583 | ug/L | 99     |
| 9) Trichlorofluoromethane      | 1.89 | 101 | 28412 | 10.399 | ug/L | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.29 | 101 | 16675 | 10.303 | ug/L | 100    |
| 12) 1,1-Dichloroethene         | 2.29 | 96  | 15680 | 10.316 | ug/L | 95     |
| 13) Acetone                    | 2.32 | 43  | 23914 | 21.145 | ug/L | 97     |
| 14) Carbon disulfide           | 2.48 | 76  | 53823 | 10.261 | ug/L | 98     |
| 15) Methyl Acetate             | 2.62 | 43  | 19982 | 10.198 | ug/L | 99     |
| 16) Methylene chloride         | 2.70 | 84  | 19982 | 10.341 | ug/L | 100    |
| 17) trans-1,2-Dichloroethene   | 2.98 | 96  | 16528 | 9.873  | ug/L | 95     |
| 18) Methyl tert-butyl Ether    | 3.00 | 73  | 44835 | 9.158  | ug/L | 98     |
| 19) 1,1-Dichloroethane         | 3.45 | 63  | 32893 | 10.187 | ug/L | 98     |
| 20) cis-1,2-Dichloroethene     | 4.23 | 96  | 17510 | 9.510  | ug/L | 95     |
| 22) 2-Butanone                 | 4.27 | 43  | 25523 | 18.300 | ug/L | 99     |
| 23) Bromochloromethane         | 4.55 | 128 | 10101 | 10.161 | ug/L | 98     |
| 25) Chloroform                 | 4.68 | 83  | 33863 | 10.355 | ug/L | 95     |
| 27) 1,2-Dichloroethane         | 5.41 | 62  | 25840 | 10.125 | ug/L | 95     |
| 29) Cyclohexane                | 5.00 | 56  | 21983 | 8.297  | ug/L | 98     |
| 30) 1,1,1-Trichloroethane      | 4.92 | 97  | 27290 | 10.052 | ug/L | 98     |
| 31) Carbon tetrachloride       | 5.14 | 117 | 24930 | 10.247 | ug/L | 97     |
| 33) Benzene                    | 5.39 | 78  | 67815 | 9.585  | ug/L | 100    |
| 34) Trichloroethene            | 6.19 | 95  | 16701 | 9.837  | ug/L | 99     |
| 35) Methylcyclohexane          | 6.42 | 83  | 22824 | 8.247  | ug/L | 95     |
| 37) 1,2-Dichloropropane        | 6.43 | 63  | 19242 | 9.901  | ug/L | 99     |
| 38) Bromodichloromethane       | 6.76 | 83  | 24239 | 10.057 | ug/L | 98     |
| 39) cis-1,3-Dichloropropene    | 7.27 | 75  | 23595 | 8.594  | ug/L | 100    |
| 40) 4-Methyl-2-pentanone       | 7.46 | 43  | 39927 | 17.290 | ug/L | 95     |

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ClientSampleId :  
VSTD01050

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Quant Title : VOC Analysis  
QLast Update : Tue Sep 18 00:50:30 2018  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 42) Toluene                    | 7.64  | 91   | 65936    | 9.209  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene  | 7.88  | 75   | 22854    | 8.891  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane      | 8.07  | 97   | 17566    | 9.914  | ug/L  | 99       |
| 46) Tetrachloroethene          | 8.23  | 164  | 14500    | 9.634  | ug/L  | 97       |
| 48) 2-Hexanone                 | 8.37  | 43   | 32088    | 17.226 | ug/L  | 94       |
| 49) Dibromochloromethane       | 8.48  | 129  | 19780    | 9.862  | ug/L  | 99       |
| 50) 1,2-Dibromoethane          | 8.59  | 107  | 18224    | 9.865  | ug/L  | 100      |
| 51) Chlorobenzene              | 9.12  | 112  | 47100    | 9.695  | ug/L  | 98       |
| 52) Ethylbenzene               | 9.25  | 91   | 63647    | 8.486  | ug/L  | 99       |
| 53) m,p-Xylene                 | 9.38  | 106  | 23865    | 8.277  | ug/L  | 97       |
| 54) o-xylene                   | 9.78  | 106  | 22965    | 8.175  | ug/L  | 95       |
| 55) Styrene                    | 9.79  | 104  | 38853    | 8.011  | ug/L  | 99       |
| 56) Isopropylbenzene           | 10.17 | 105  | 57692    | 8.040  | ug/L  | 98       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.46 | 83   | 29959    | 10.052 | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.49 | 75   | 23397    | 10.050 | ug/L  | 99       |
| 61) Bromoform                  | 9.96  | 173  | 14263    | 10.723 | ug/L  | 98       |
| 62) 1,3-Dichlorobenzene        | 11.42 | 146  | 29379    | 9.527  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene        | 11.51 | 146  | 34011    | 10.017 | ug/L  | 97       |
| 65) 1,2-Dichlorobenzene        | 11.88 | 146  | 34688    | 10.159 | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 12.66 | 75   | 5569     | 10.751 | ug/L  | 92       |
| 67) 1,3,5-Trichlorobenzene     | 12.89 | 180  | 21984    | 9.213  | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene     | 13.50 | 180  | 17654    | 8.585  | ug/L  | 96       |
| 69) Naphthalene                | 13.75 | 128  | 45491    | 7.509  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.99 | 180  | 19964    | 8.816  | ug/L  | 96       |

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

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