

Data File : VU033631.D  
Acq On : 08 Aug 2019 12:26  
Operator : JC/SP  
Sample : VSTD10034  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD10034

Quant Time: Aug 08 15:28:36 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM080819WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu Aug 08 15:24:56 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 303083   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 306020   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 171823   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |       |     |         |        |      |      |
|--------------------------------|-------|-----|---------|--------|------|------|
| 4) Vinyl Chloride-d3           | 1.39  | 65  | 340431  | 152.00 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.67  | 69  | 283052  | 117.59 | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.26  | 63  | 552180  | 133.30 | ug/L | 0.00 |
| 21) 2-Butanone-d5              | 4.14  | 46  | 526321  | 296.15 | ug/L | 0.00 |
| 24) Chloroform-d               | 4.62  | 84  | 566221  | 138.10 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.29  | 65  | 358206  | 136.78 | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.32  | 84  | 1154735 | 137.30 | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.31  | 67  | 366575  | 137.27 | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.55  | 98  | 1094935 | 140.15 | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 7.83  | 79  | 186330  | 139.54 | ug/L | 0.00 |
| 47) 2-Hexanone-d5              | 8.29  | 63  | 406549  | 309.26 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41 | 84  | 574172  | 140.51 | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 11.84 | 152 | 464085  | 135.38 | ug/L | 0.00 |

#### Target Compounds

|                                |      |     |        |         |      | Qvalue |
|--------------------------------|------|-----|--------|---------|------|--------|
| 2) Dichlorodifluoromethane     | 1.20 | 85  | 266243 | 101.871 | ug/L | 98     |
| 3) Chloromethane               | 1.32 | 50  | 279095 | 98.535  | ug/L | 100    |
| 5) Vinyl chloride              | 1.40 | 62  | 314204 | 100.769 | ug/L | 100    |
| 6) Bromomethane                | 1.61 | 94  | 197448 | 84.112  | ug/L | 98     |
| 8) Chloroethane                | 1.68 | 64  | 193596 | 79.329  | ug/L | 99     |
| 9) Trichlorofluoromethane      | 1.87 | 101 | 414510 | 102.226 | ug/L | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27 | 101 | 212348 | 102.711 | ug/L | 99     |
| 12) 1,1-Dichloroethene         | 2.27 | 96  | 206041 | 103.210 | ug/L | 91     |
| 13) Acetone                    | 2.31 | 43  | 303715 | 188.598 | ug/L | 99     |
| 14) Carbon disulfide           | 2.46 | 76  | 616277 | 99.796  | ug/L | 100    |
| 15) Methyl Acetate             | 2.60 | 43  | 270177 | 103.859 | ug/L | 99     |
| 16) Methylene chloride         | 2.68 | 84  | 243877 | 104.394 | ug/L | 98     |
| 17) trans-1,2-Dichloroethene   | 2.96 | 96  | 217612 | 101.996 | ug/L | 98     |
| 18) Methyl tert-butyl Ether    | 2.98 | 73  | 707411 | 106.979 | ug/L | 99     |
| 19) 1,1-Dichloroethane         | 3.42 | 63  | 417704 | 103.381 | ug/L | 99     |
| 20) cis-1,2-Dichloroethene     | 4.20 | 96  | 249985 | 105.980 | ug/L | 97     |
| 22) 2-Butanone                 | 4.23 | 43  | 426807 | 213.329 | ug/L | 100    |
| 23) Bromochloromethane         | 4.52 | 128 | 130310 | 105.582 | ug/L | 97     |
| 25) Chloroform                 | 4.65 | 83  | 432590 | 103.205 | ug/L | 97     |
| 27) 1,2-Dichloroethane         | 5.38 | 62  | 342189 | 104.981 | ug/L | 100    |
| 29) Cyclohexane                | 4.97 | 56  | 364399 | 104.290 | ug/L | 99     |
| 30) 1,1,1-Trichloroethane      | 4.89 | 97  | 366691 | 100.623 | ug/L | 99     |
| 31) Carbon tetrachloride       | 5.11 | 117 | 331685 | 103.494 | ug/L | 99     |
| 33) Benzene                    | 5.37 | 78  | 940739 | 102.029 | ug/L | 100    |
| 34) Trichloroethene            | 6.16 | 95  | 241462 | 101.627 | ug/L | 100    |
| 35) Methylcyclohexane          | 6.40 | 83  | 391815 | 105.179 | ug/L | 99     |
| 37) 1,2-Dichloropropane        | 6.41 | 63  | 252856 | 100.312 | ug/L | 100    |
| 38) Bromodichloromethane       | 6.74 | 83  | 327738 | 103.022 | ug/L | 99     |
| 39) cis-1,3-Dichloropropene    | 7.25 | 75  | 416379 | 108.403 | ug/L | 99     |
| 40) 4-Methyl-2-pentanone       | 7.44 | 43  | 771231 | 213.106 | ug/L | 99     |

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| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 42) Toluene                    | 7.62  | 91   | 1043528  | 105.938 | ug/L   | 100      |
| 44) trans-1,3-Dichloropropene  | 7.86  | 75   | 375010   | 108.130 | ug/L   | 98       |
| 45) 1,1,2-Trichloroethane      | 8.05  | 97   | 239687   | 101.312 | ug/L   | 99       |
| 46) Tetrachloroethene          | 8.21  | 164  | 200354   | 103.142 | ug/L   | 97       |
| 48) 2-Hexanone                 | 8.34  | 43   | 637581   | 219.450 | ug/L   | 98       |
| 49) Dibromochloromethane       | 8.46  | 129  | 281214   | 105.665 | ug/L   | 97       |
| 50) 1,2-Dibromoethane          | 8.57  | 107  | 267624   | 103.210 | ug/L # | 99       |
| 51) Chlorobenzene              | 9.10  | 112  | 669458   | 104.030 | ug/L   | 99       |
| 52) Ethylbenzene               | 9.23  | 91   | 1150932  | 107.780 | ug/L   | 99       |
| 53) m,p-Xylene                 | 9.36  | 106  | 445988   | 109.661 | ug/L   | 99       |
| 54) o-xylene                   | 9.76  | 106  | 437880   | 110.119 | ug/L   | 99       |
| 55) Styrene                    | 9.77  | 104  | 765481   | 112.848 | ug/L   | 100      |
| 56) Isopropylbenzene           | 10.15 | 105  | 1143139  | 111.211 | ug/L   | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.44 | 83   | 445371   | 105.653 | ug/L   | 100      |
| 59) 1,2,3-Trichloropropane     | 10.48 | 75   | 349827   | 105.542 | ug/L   | 99       |
| 61) Bromoform                  | 9.94  | 173  | 222432   | 102.684 | ug/L   | 99       |
| 62) 1,3-Dichlorobenzene        | 11.40 | 146  | 568481   | 104.274 | ug/L   | 99       |
| 63) 1,4-Dichlorobenzene        | 11.49 | 146  | 571727   | 102.602 | ug/L   | 99       |
| 65) 1,2-Dichlorobenzene        | 11.86 | 146  | 573267   | 104.944 | ug/L   | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.64 | 75   | 105549   | 103.033 | ug/L   | 98       |
| 67) 1,3,5-Trichlorobenzene     | 12.87 | 180  | 431705   | 103.321 | ug/L   | 100      |
| 68) 1,2,4-trichlorobenzene     | 13.49 | 180  | 386844   | 108.629 | ug/L   | 99       |
| 69) Naphthalene                | 13.73 | 128  | 1220958  | 117.799 | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.97 | 180  | 399965   | 105.412 | ug/L   | 99       |

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

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