

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU103119\  
 Data File : VU035557.D  
 Acq On : 30 Oct 2019 13:24  
 Operator : JC/SP  
 Sample : VSTD00536  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00536

Quant Time: Oct 30 22:51:07 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM103119WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Oct 30 23:48:26 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 655391   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 632048   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.84 | 152  | 211503   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |       |      |      |      |
|--------------------------------|-------|-----|-------|------|------|------|
| 4) Vinyl Chloride-d3           | 1.62  | 65  | 29000 | 5.55 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.93  | 69  | 23611 | 5.49 | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.60  | 63  | 44254 | 5.17 | ug/L | 0.00 |
| 21) 2-Butanone-d5              | 4.70  | 46  | 29938 | 8.95 | ug/L | 0.00 |
| 24) Chloroform-d               | 5.12  | 84  | 44484 | 5.25 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.75  | 65  | 28337 | 5.32 | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.78  | 84  | 88635 | 5.28 | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.74  | 67  | 29390 | 5.36 | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.93  | 98  | 79848 | 5.15 | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 8.22  | 79  | 11963 | 4.67 | ug/L | 0.00 |
| 47) 2-Hexanone-d5              | 8.69  | 63  | 17163 | 8.45 | ug/L | 0.02 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.79 | 84  | 40994 | 5.32 | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 12.22 | 152 | 24835 | 5.99 | ug/L | 0.00 |

## Target Compounds

|                                |      |     |       |        | Qvalue    |
|--------------------------------|------|-----|-------|--------|-----------|
| 2) Dichlorodifluoromethane     | 1.40 | 85  | 28178 | 5.102  | ug/L 99   |
| 3) Chloromethane               | 1.54 | 50  | 30790 | 5.178  | ug/L 95   |
| 5) Vinyl chloride              | 1.62 | 62  | 33047 | 5.164  | ug/L 84   |
| 6) Bromomethane                | 1.88 | 94  | 15135 | 5.113  | ug/L 89   |
| 8) Chloroethane                | 1.95 | 64  | 19808 | 5.273  | ug/L 97   |
| 9) Trichlorofluoromethane      | 2.16 | 101 | 38916 | 5.264  | ug/L 99   |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.61 | 101 | 22069 | 5.105  | ug/L 98   |
| 12) 1,1-Dichloroethene         | 2.61 | 96  | 21356 | 5.190  | ug/L 92   |
| 13) Acetone                    | 2.67 | 43  | 32538 | 10.035 | ug/L 97   |
| 14) Carbon disulfide           | 2.83 | 76  | 70193 | 5.331  | ug/L 99   |
| 15) Methyl Acetate             | 3.00 | 43  | 25534 | 4.703  | ug/L 100  |
| 16) Methylene chloride         | 3.09 | 84  | 27369 | 5.387  | ug/L 96   |
| 17) trans-1,2-Dichloroethene   | 3.40 | 96  | 23043 | 5.291  | ug/L 99   |
| 18) Methyl tert-butyl Ether    | 3.42 | 73  | 63211 | 4.661  | ug/L 99   |
| 19) 1,1-Dichloroethane         | 3.92 | 63  | 44461 | 5.018  | ug/L 97   |
| 20) cis-1,2-Dichloroethene     | 4.72 | 96  | 23863 | 4.862  | ug/L 96   |
| 22) 2-Butanone                 | 4.78 | 43  | 35817 | 8.752  | ug/L 99   |
| 23) Bromochloromethane         | 5.03 | 128 | 13301 | 5.278  | ug/L 95   |
| 25) Chloroform                 | 5.14 | 83  | 46178 | 5.248  | ug/L 98   |
| 27) 1,2-Dichloroethane         | 5.84 | 62  | 32661 | 4.877  | ug/L 99   |
| 29) Cyclohexane                | 5.44 | 56  | 31467 | 4.500  | ug/L 99   |
| 30) 1,1,1-Trichloroethane      | 5.37 | 97  | 36912 | 5.348  | ug/L 99   |
| 31) Carbon tetrachloride       | 5.57 | 117 | 31915 | 5.238  | ug/L 98   |
| 33) Benzene                    | 5.82 | 78  | 97187 | 5.202  | ug/L 100  |
| 34) Trichloroethene            | 6.58 | 95  | 25097 | 5.427  | ug/L 92   |
| 35) Methylcyclohexane          | 6.80 | 83  | 32511 | 4.993  | ug/L 98   |
| 37) 1,2-Dichloropropane        | 6.84 | 63  | 25047 | 4.890  | ug/L # 96 |
| 38) Bromodichloromethane       | 7.15 | 83  | 33620 | 5.300  | ug/L 99   |
| 39) cis-1,3-Dichloropropene    | 7.65 | 75  | 33191 | 4.397  | ug/L 100  |
| 40) 4-Methyl-2-pentanone       | 7.85 | 43  | 66018 | 9.558  | ug/L 93   |

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 ALS Vial : 3 Sample Multiplier: 1

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 VSTD00536

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 Quant Title : VOC Analysis  
 QLast Update : Wed Oct 30 23:48:26 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 42) Toluene                    | 8.01  | 91   | 91806    | 4.735  | ug/L   | 100      |
| 44) trans-1,3-Dichloropropene  | 8.25  | 75   | 31188    | 4.535  | ug/L   | 97       |
| 45) 1,1,2-Trichloroethane      | 8.44  | 97   | 25150    | 5.355  | ug/L   | 97       |
| 46) Tetrachloroethene          | 8.59  | 164  | 20337    | 5.550  | ug/L   | 97       |
| 48) 2-Hexanone                 | 8.75  | 43   | 56173    | 10.121 | ug/L # | 80       |
| 49) Dibromochloromethane       | 8.84  | 129  | 27421    | 5.385  | ug/L   | 93       |
| 50) 1,2-Dibromoethane          | 8.96  | 107  | 24910    | 5.031  | ug/L   | 97       |
| 51) Chlorobenzene              | 9.48  | 112  | 66354    | 5.261  | ug/L   | 98       |
| 52) Ethylbenzene               | 9.60  | 91   | 97223    | 4.721  | ug/L   | 97       |
| 53) m,p-Xylene                 | 9.73  | 106  | 34151    | 4.469  | ug/L   | 95       |
| 54) o-xylene                   | 10.13 | 106  | 33075    | 4.415  | ug/L   | 91       |
| 55) Styrene                    | 10.15 | 104  | 51769    | 4.226  | ug/L   | 98       |
| 56) Isopropylbenzene           | 10.51 | 105  | 81455    | 4.311  | ug/L   | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.82 | 83   | 42202    | 5.103  | ug/L   | 94       |
| 59) 1,2,3-Trichloropropane     | 10.86 | 75   | 34248    | 5.236  | ug/L   | 98       |
| 61) Bromoform                  | 10.32 | 173  | 21247    | 6.665  | ug/L   | 98       |
| 62) 1,3-Dichlorobenzene        | 11.78 | 146  | 38486    | 5.749  | ug/L   | 95       |
| 63) 1,4-Dichlorobenzene        | 11.87 | 146  | 41053    | 6.024  | ug/L   | 96       |
| 65) 1,2-Dichlorobenzene        | 12.24 | 146  | 41148    | 6.032  | ug/L   | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 13.03 | 75   | 6166     | 5.533  | ug/L   | 92       |
| 67) 1,3,5-Trichlorobenzene     | 13.24 | 180  | 20039    | 5.692  | ug/L   | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.87 | 180  | 12989    | 5.839  | ug/L   | 99       |
| 69) Naphthalene                | 14.11 | 128  | 30377    | 5.034  | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene     | 14.35 | 180  | 14972    | 6.487  | ug/L   | 99       |

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

