

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052119\  
 Data File : VU032187.D  
 Acq On : 21 May 2019 10:07  
 Operator : JC/SP  
 Sample : VSTD05053  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD05053

Quant Time: May 22 01:38:47 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM052119WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed May 22 01:34:46 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 826413   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 837922   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 410623   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |      |      |
|--------------------------------|-------|-----|---------|-------|------|------|
| 4) Vinyl Chloride-d3           | 1.40  | 65  | 268376  | 38.86 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.67  | 69  | 230191  | 40.94 | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.27  | 63  | 502660  | 40.27 | ug/L | 0.00 |
| 21) 2-Butanone-d5              | 4.17  | 46  | 341978  | 72.49 | ug/L | 0.00 |
| 24) Chloroform-d               | 4.64  | 84  | 522260  | 44.15 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.30  | 65  | 313970  | 42.40 | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.33  | 84  | 1093168 | 46.06 | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.32  | 67  | 312755  | 40.66 | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.56  | 98  | 1040893 | 48.46 | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 7.85  | 79  | 154601  | 44.93 | ug/L | 0.00 |
| 47) 2-Hexanone-d5              | 8.31  | 63  | 306144  | 96.30 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43 | 84  | 494235  | 42.94 | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 11.85 | 152 | 418308  | 48.80 | ug/L | 0.00 |

## Target Compounds

|                                |      |     |         |        | Qvalue   |
|--------------------------------|------|-----|---------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.20 | 85  | 323700  | 43.443 | ug/L 100 |
| 3) Chloromethane               | 1.32 | 50  | 288786  | 36.012 | ug/L 100 |
| 5) Vinyl chloride              | 1.40 | 62  | 323123  | 38.058 | ug/L 100 |
| 6) Bromomethane                | 1.61 | 94  | 216029  | 46.455 | ug/L 100 |
| 8) Chloroethane                | 1.69 | 64  | 190758  | 37.857 | ug/L 100 |
| 9) Trichlorofluoromethane      | 1.88 | 101 | 443239  | 44.549 | ug/L 100 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.28 | 101 | 272495  | 44.905 | ug/L 100 |
| 12) 1,1-Dichloroethene         | 2.28 | 96  | 270392  | 44.957 | ug/L 100 |
| 13) Acetone                    | 2.32 | 43  | 332871  | 68.148 | ug/L 100 |
| 14) Carbon disulfide           | 2.47 | 76  | 778348  | 40.749 | ug/L 100 |
| 15) Methyl Acetate             | 2.61 | 43  | 237618  | 32.311 | ug/L 100 |
| 16) Methylene chloride         | 2.69 | 84  | 305517  | 42.133 | ug/L 100 |
| 17) trans-1,2-Dichloroethene   | 2.98 | 96  | 283369  | 45.292 | ug/L 100 |
| 18) Methyl tert-butyl Ether    | 2.99 | 73  | 816839  | 43.083 | ug/L 100 |
| 19) 1,1-Dichloroethane         | 3.44 | 63  | 472177  | 39.453 | ug/L 100 |
| 20) cis-1,2-Dichloroethene     | 4.22 | 96  | 312053  | 45.269 | ug/L 100 |
| 22) 2-Butanone                 | 4.26 | 43  | 391491  | 70.389 | ug/L 100 |
| 23) Bromochloromethane         | 4.54 | 128 | 169662  | 49.149 | ug/L 100 |
| 25) Chloroform                 | 4.67 | 83  | 520529  | 43.157 | ug/L 100 |
| 27) 1,2-Dichloroethane         | 5.40 | 62  | 378662  | 41.047 | ug/L 100 |
| 29) Cyclohexane                | 4.99 | 56  | 398589  | 40.753 | ug/L 100 |
| 30) 1,1,1-Trichloroethane      | 4.91 | 97  | 432789  | 45.007 | ug/L 100 |
| 31) Carbon tetrachloride       | 5.13 | 117 | 387609  | 47.753 | ug/L 100 |
| 33) Benzene                    | 5.38 | 78  | 1154094 | 43.214 | ug/L 100 |
| 34) Trichloroethene            | 6.18 | 95  | 301763  | 44.917 | ug/L 100 |
| 35) Methylcyclohexane          | 6.41 | 83  | 469534  | 45.894 | ug/L 100 |
| 37) 1,2-Dichloropropane        | 6.43 | 63  | 278467  | 39.435 | ug/L 100 |
| 38) Bromodichloromethane       | 6.75 | 83  | 388151  | 43.828 | ug/L 100 |
| 39) cis-1,3-Dichloropropene    | 7.26 | 75  | 450846  | 44.358 | ug/L 100 |
| 40) 4-Methyl-2-pentanone       | 7.45 | 43  | 662328  | 71.085 | ug/L 100 |

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 VSTD05053

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 Quant Title : VOC Analysis  
 QLast Update : Wed May 22 01:34:46 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 42) Toluene                    | 7.63  | 91   | 1306561  | 47.130 | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene  | 7.87  | 75   | 396723   | 44.319 | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane      | 8.06  | 97   | 303560   | 45.332 | ug/L  | 100      |
| 46) Tetrachloroethene          | 8.22  | 164  | 254482   | 51.944 | ug/L  | 100      |
| 48) 2-Hexanone                 | 8.36  | 43   | 555306   | 73.283 | ug/L  | 100      |
| 49) Dibromochloromethane       | 8.47  | 129  | 330434   | 48.519 | ug/L  | 100      |
| 50) 1,2-Dibromoethane          | 8.58  | 107  | 325329   | 45.861 | ug/L  | 100      |
| 51) Chlorobenzene              | 9.12  | 112  | 838762   | 47.025 | ug/L  | 100      |
| 52) Ethylbenzene               | 9.24  | 91   | 1395319  | 46.947 | ug/L  | 100      |
| 53) m,p-Xylene                 | 9.37  | 106  | 556906   | 50.833 | ug/L  | 100      |
| 54) o-xylene                   | 9.77  | 106  | 559784   | 51.500 | ug/L  | 100      |
| 55) Styrene                    | 9.79  | 104  | 959590   | 51.535 | ug/L  | 100      |
| 56) Isopropylbenzene           | 10.16 | 105  | 1400961  | 50.392 | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.45 | 83   | 501068   | 42.072 | ug/L  | 100      |
| 59) 1,2,3-Trichloropropane     | 10.49 | 75   | 383877   | 41.123 | ug/L  | 100      |
| 61) Bromoform                  | 9.95  | 173  | 256771   | 46.888 | ug/L  | 100      |
| 62) 1,3-Dichlorobenzene        | 11.41 | 146  | 652883   | 48.636 | ug/L  | 100      |
| 63) 1,4-Dichlorobenzene        | 11.50 | 146  | 667844   | 47.245 | ug/L  | 100      |
| 65) 1,2-Dichlorobenzene        | 11.87 | 146  | 689392   | 48.512 | ug/L  | 100      |
| 66) 1,2-Dibromo-3-chloropropan | 12.65 | 75   | 105841   | 39.993 | ug/L  | 100      |
| 67) 1,3,5-Trichlorobenzene     | 12.88 | 180  | 505284   | 51.884 | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene     | 13.50 | 180  | 406231   | 54.228 | ug/L  | 100      |
| 69) Naphthalene                | 13.74 | 128  | 1303399  | 53.379 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.98 | 180  | 456714   | 55.912 | ug/L  | 100      |

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

