

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU022420\  
 Data File : VU036880.D  
 Acq On : 24 Feb 2020 13:15  
 Operator : JC/MD  
 Sample : VSTD05034  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD05034

Quant Time: Feb 25 00:32:49 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM022420WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Feb 25 00:29:55 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.28  | 114  | 279276   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 262862   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 116448   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |        |      |      |
|--------------------------------|-------|-----|--------|--------|------|------|
| 4) Vinyl Chloride-d3           | 1.61  | 65  | 119717 | 61.70  | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.93  | 69  | 99317  | 59.78  | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.59  | 63  | 201242 | 56.05  | ug/L | 0.00 |
| 21) 2-Butanone-d5              | 4.67  | 46  | 168828 | 106.59 | ug/L | 0.00 |
| 24) Chloroform-d               | 5.11  | 84  | 185325 | 51.20  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.74  | 65  | 123422 | 51.20  | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.76  | 84  | 396824 | 56.08  | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.72  | 67  | 128966 | 56.01  | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.93  | 98  | 367863 | 55.17  | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 8.20  | 79  | 59945  | 49.79  | ug/L | 0.00 |
| 47) 2-Hexanone-d5              | 8.66  | 63  | 128433 | 110.47 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.77 | 84  | 180644 | 53.08  | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 12.21 | 152 | 116196 | 50.66  | ug/L | 0.00 |

## Target Compounds

|                                |      |     |        |         | Qvalue   |
|--------------------------------|------|-----|--------|---------|----------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 118557 | 46.705  | ug/L 100 |
| 3) Chloromethane               | 1.54 | 50  | 135629 | 56.905  | ug/L 100 |
| 5) Vinyl chloride              | 1.62 | 62  | 141434 | 58.810  | ug/L 100 |
| 6) Bromomethane                | 1.87 | 94  | 70080  | 50.032  | ug/L 100 |
| 8) Chloroethane                | 1.95 | 64  | 84630  | 59.072  | ug/L 100 |
| 9) Trichlorofluoromethane      | 2.16 | 101 | 149973 | 48.257  | ug/L 100 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.61 | 101 | 89461  | 53.313  | ug/L 100 |
| 12) 1,1-Dichloroethene         | 2.60 | 96  | 90140  | 53.904  | ug/L 100 |
| 13) Acetone                    | 2.66 | 43  | 165411 | 97.891  | ug/L 100 |
| 14) Carbon disulfide           | 2.82 | 76  | 284286 | 52.615  | ug/L 100 |
| 15) Methyl Acetate             | 2.98 | 43  | 125956 | 55.081  | ug/L 100 |
| 16) Methylene chloride         | 3.08 | 84  | 109430 | 53.236  | ug/L 100 |
| 17) trans-1,2-Dichloroethene   | 3.39 | 96  | 96662  | 52.704  | ug/L 100 |
| 18) Methyl tert-butyl Ether    | 3.40 | 73  | 319451 | 51.747  | ug/L 100 |
| 19) 1,1-Dichloroethane         | 3.91 | 63  | 191116 | 55.045  | ug/L 100 |
| 20) cis-1,2-Dichloroethene     | 4.71 | 96  | 108465 | 52.177  | ug/L 100 |
| 22) 2-Butanone                 | 4.75 | 43  | 204459 | 105.871 | ug/L 100 |
| 23) Bromochloromethane         | 5.02 | 128 | 49642  | 49.789  | ug/L 100 |
| 25) Chloroform                 | 5.13 | 83  | 182134 | 50.092  | ug/L 100 |
| 27) 1,2-Dichloroethane         | 5.83 | 62  | 151435 | 52.249  | ug/L 100 |
| 29) Cyclohexane                | 5.43 | 56  | 179358 | 55.582  | ug/L 100 |
| 30) 1,1,1-Trichloroethane      | 5.36 | 97  | 144597 | 47.351  | ug/L 100 |
| 31) Carbon tetrachloride       | 5.56 | 117 | 111976 | 43.794  | ug/L 100 |
| 33) Benzene                    | 5.81 | 78  | 425379 | 55.312  | ug/L 100 |
| 34) Trichloroethene            | 6.57 | 95  | 103549 | 50.920  | ug/L 100 |
| 35) Methylcyclohexane          | 6.79 | 83  | 181271 | 56.298  | ug/L 100 |
| 37) 1,2-Dichloropropane        | 6.82 | 63  | 111702 | 54.754  | ug/L 100 |
| 38) Bromodichloromethane       | 7.14 | 83  | 134184 | 49.295  | ug/L 100 |
| 39) cis-1,3-Dichloropropene    | 7.64 | 75  | 178617 | 54.588  | ug/L 100 |
| 40) 4-Methyl-2-pentanone       | 7.82 | 43  | 341923 | 105.118 | ug/L 100 |

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 Quant Title : VOC Analysis  
 QLast Update : Tue Feb 25 00:29:55 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 42) Toluene                    | 8.00  | 91   | 455351   | 54.710  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene  | 8.23  | 75   | 153639   | 51.493  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane      | 8.43  | 97   | 100897   | 52.352  | ug/L  | 100      |
| 46) Tetrachloroethene          | 8.57  | 164  | 68243    | 50.238  | ug/L  | 100      |
| 48) 2-Hexanone                 | 8.71  | 43   | 281284   | 108.548 | ug/L  | 100      |
| 49) Dibromochloromethane       | 8.84  | 129  | 96590    | 46.697  | ug/L  | 100      |
| 50) 1,2-Dibromoethane          | 8.95  | 107  | 105314   | 49.229  | ug/L  | 100      |
| 51) Chlorobenzene              | 9.47  | 112  | 265593   | 51.473  | ug/L  | 100      |
| 52) Ethylbenzene               | 9.59  | 91   | 488078   | 52.939  | ug/L  | 100      |
| 53) m,p-Xylene                 | 9.71  | 106  | 180042   | 52.310  | ug/L  | 100      |
| 54) o-xylene                   | 10.12 | 106  | 179057   | 52.130  | ug/L  | 100      |
| 55) Styrene                    | 10.13 | 104  | 296021   | 53.285  | ug/L  | 100      |
| 56) Isopropylbenzene           | 10.50 | 105  | 460795   | 52.433  | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.80 | 83   | 179395   | 53.636  | ug/L  | 100      |
| 59) 1,2,3-Trichloropropane     | 10.84 | 75   | 144320   | 52.051  | ug/L  | 100      |
| 61) Bromoform                  | 10.31 | 173  | 66209    | 43.095  | ug/L  | 100      |
| 62) 1,3-Dichlorobenzene        | 11.76 | 146  | 188168   | 51.072  | ug/L  | 100      |
| 63) 1,4-Dichlorobenzene        | 11.85 | 146  | 184793   | 50.273  | ug/L  | 100      |
| 65) 1,2-Dichlorobenzene        | 12.23 | 146  | 190807   | 52.417  | ug/L  | 100      |
| 66) 1,2-Dibromo-3-chloropropan | 13.02 | 75   | 39319    | 49.517  | ug/L  | 100      |
| 67) 1,3,5-Trichlorobenzene     | 13.24 | 180  | 123939   | 54.879  | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene     | 13.87 | 180  | 97014    | 57.733  | ug/L  | 100      |
| 69) Naphthalene                | 14.12 | 128  | 166705   | 32.709  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 14.36 | 180  | 96522    | 55.416  | ug/L  | 100      |

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

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