

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU031220\  
 Data File : VU037184.D  
 Acq On : 12 Mar 2020 12:40  
 Operator : JC/MD  
 Sample : VSTD00533  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00533

Quant Time: Mar 13 06:55:09 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM031220WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Mar 13 06:53:19 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.28  | 114  | 455138   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 441477   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 200616   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |       |      |      |      |
|--------------------------------|-------|-----|-------|------|------|------|
| 4) Vinyl Chloride-d3           | 1.61  | 65  | 16986 | 4.82 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.93  | 69  | 14025 | 4.94 | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.59  | 63  | 31495 | 4.87 | ug/L | 0.00 |
| 21) 2-Butanone-d5              | 4.67  | 46  | 23243 | 8.34 | ug/L | 0.00 |
| 24) Chloroform-d               | 5.11  | 84  | 32345 | 4.78 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.74  | 65  | 23838 | 4.81 | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.76  | 84  | 60184 | 4.95 | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.73  | 67  | 19720 | 4.96 | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.92  | 98  | 54570 | 4.70 | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 8.20  | 79  | 10007 | 4.62 | ug/L | 0.00 |
| 47) 2-Hexanone-d5              | 8.66  | 63  | 16190 | 7.86 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.78 | 84  | 29199 | 4.74 | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 12.21 | 152 | 21890 | 5.26 | ug/L | 0.00 |

## Target Compounds

|                                |      |     |       |            | Qvalue |
|--------------------------------|------|-----|-------|------------|--------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 23320 | 5.014 ug/L | 97     |
| 3) Chloromethane               | 1.54 | 50  | 18840 | 4.953 ug/L | 96     |
| 5) Vinyl chloride              | 1.62 | 62  | 19877 | 4.768 ug/L | 92     |
| 6) Bromomethane                | 1.87 | 94  | 6218  | 3.886 ug/L | 95     |
| 8) Chloroethane                | 1.95 | 64  | 12761 | 5.225 ug/L | 92     |
| 9) Trichlorofluoromethane      | 2.16 | 101 | 31437 | 4.939 ug/L | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.61 | 101 | 14467 | 4.867 ug/L | 90     |
| 12) 1,1-Dichloroethene         | 2.61 | 96  | 13435 | 5.002 ug/L | 82     |
| 13) Acetone                    | 2.65 | 43  | 25184 | 9.522 ug/L | 95     |
| 14) Carbon disulfide           | 2.82 | 76  | 38707 | 5.083 ug/L | 98     |
| 15) Methyl Acetate             | 2.98 | 43  | 18732 | 4.503 ug/L | 99     |
| 16) Methylene chloride         | 3.08 | 84  | 17461 | 5.208 ug/L | 96     |
| 17) trans-1,2-Dichloroethene   | 3.39 | 96  | 13783 | 4.898 ug/L | 95     |
| 18) Methyl tert-butyl Ether    | 3.40 | 73  | 50492 | 4.646 ug/L | 97     |
| 19) 1,1-Dichloroethane         | 3.91 | 63  | 30537 | 4.849 ug/L | 97     |
| 20) cis-1,2-Dichloroethene     | 4.71 | 96  | 16429 | 4.827 ug/L | 98     |
| 22) 2-Butanone                 | 4.75 | 43  | 28175 | 8.423 ug/L | 98     |
| 23) Bromochloromethane         | 5.02 | 128 | 8428  | 4.910 ug/L | 92     |
| 25) Chloroform                 | 5.13 | 83  | 34852 | 5.118 ug/L | 93     |
| 27) 1,2-Dichloroethane         | 5.83 | 62  | 29476 | 4.858 ug/L | # 92   |
| 29) Cyclohexane                | 5.43 | 56  | 24672 | 4.727 ug/L | 98     |
| 30) 1,1,1-Trichloroethane      | 5.36 | 97  | 29012 | 4.951 ug/L | 99     |
| 31) Carbon tetrachloride       | 5.56 | 117 | 24921 | 4.813 ug/L | 98     |
| 33) Benzene                    | 5.81 | 78  | 63303 | 4.865 ug/L | 100    |
| 34) Trichloroethene            | 6.57 | 95  | 16942 | 5.010 ug/L | 97     |
| 35) Methylcyclohexane          | 6.79 | 83  | 23825 | 4.654 ug/L | 99     |
| 37) 1,2-Dichloropropane        | 6.82 | 63  | 18625 | 5.035 ug/L | 100    |
| 38) Bromodichloromethane       | 7.14 | 83  | 25411 | 4.914 ug/L | 95     |
| 39) cis-1,3-Dichloropropene    | 7.64 | 75  | 25554 | 4.456 ug/L | 97     |
| 40) 4-Methyl-2-pentanone       | 7.82 | 43  | 50606 | 8.405 ug/L | 98     |

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| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| -----                          |       |      |          |       |        |          |
| 42) Toluene                    | 8.00  | 91   | 68298    | 4.806 | ug/L   | 98       |
| 44) trans-1,3-Dichloropropene  | 8.24  | 75   | 24274    | 4.483 | ug/L   | 97       |
| 45) 1,1,2-Trichloroethane      | 8.43  | 97   | 16804    | 4.989 | ug/L   | 94       |
| 46) Tetrachloroethene          | 8.58  | 164  | 12063    | 4.802 | ug/L   | 96       |
| 48) 2-Hexanone                 | 8.71  | 43   | 37562    | 7.916 | ug/L # | 96       |
| 49) Dibromochloromethane       | 8.83  | 129  | 18139    | 4.578 | ug/L   | 100      |
| 50) 1,2-Dibromoethane          | 8.95  | 107  | 16940    | 4.661 | ug/L # | 96       |
| 51) Chlorobenzene              | 9.47  | 112  | 43260    | 4.841 | ug/L   | 96       |
| 52) Ethylbenzene               | 9.59  | 91   | 75648    | 4.598 | ug/L   | 99       |
| 53) m,p-Xylene                 | 9.72  | 106  | 25527    | 4.386 | ug/L   | 93       |
| 54) o-xylene                   | 10.12 | 106  | 25499    | 4.435 | ug/L   | 97       |
| 55) Styrene                    | 10.13 | 104  | 42492    | 4.358 | ug/L   | 95       |
| 56) Isopropylbenzene           | 10.50 | 105  | 70483    | 4.410 | ug/L   | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.80 | 83   | 27407    | 4.458 | ug/L   | 96       |
| 59) 1,2,3-Trichloropropane     | 10.84 | 75   | 22928    | 4.459 | ug/L   | 98       |
| 61) Bromoform                  | 10.31 | 173  | 13703    | 4.890 | ug/L   | 98       |
| 62) 1,3-Dichlorobenzene        | 11.76 | 146  | 30536    | 4.802 | ug/L   | 100      |
| 63) 1,4-Dichlorobenzene        | 11.85 | 146  | 31503    | 4.902 | ug/L   | 94       |
| 65) 1,2-Dichlorobenzene        | 12.23 | 146  | 32300    | 4.973 | ug/L   | 97       |
| 66) 1,2-Dibromo-3-chloropropan | 13.02 | 75   | 6456     | 4.509 | ug/L   | 94       |
| 67) 1,3,5-Trichlorobenzene     | 13.25 | 180  | 21293    | 4.595 | ug/L   | 96       |
| 68) 1,2,4-trichlorobenzene     | 13.87 | 180  | 13962    | 3.858 | ug/L   | 94       |
| 69) Naphthalene                | 14.12 | 128  | 16865    | 3.073 | ug/L # | 91       |
| 70) 1,2,3-Trichlorobenzene     | 14.37 | 180  | 15332    | 4.038 | ug/L   | 97       |
| -----                          |       |      |          |       |        |          |

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

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