

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV120219\  
 Data File : VV013868.D  
 Acq On : 02 Dec 2019 13:00  
 Operator : SY/MD  
 Sample : VSTD10061  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD10061

Quant Time: Dec 03 01:27:25 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM120219WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Dec 03 01:23:48 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 690794   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 658934   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 413944   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |        |      |      |
|--------------------------------|-------|-----|---------|--------|------|------|
| 4) Vinyl Chloride-d3           | 1.32  | 65  | 406590  | 101.52 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.58  | 69  | 419448  | 120.86 | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.13  | 63  | 877944  | 119.11 | ug/L | 0.00 |
| 21) 2-Butanone-d5              | 3.92  | 46  | 631420  | 214.49 | ug/L | 0.00 |
| 24) Chloroform-d               | 4.40  | 84  | 874573  | 101.12 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.08  | 65  | 534273  | 94.81  | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.09  | 84  | 1742000 | 99.89  | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.11  | 67  | 519307  | 93.11  | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.35  | 98  | 1670182 | 104.32 | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 7.66  | 79  | 259012  | 100.19 | ug/L | 0.00 |
| 47) 2-Hexanone-d5              | 8.12  | 63  | 423445  | 209.68 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.25 | 84  | 823233  | 113.58 | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 11.67 | 152 | 784755  | 95.82  | ug/L | 0.00 |

## Target Compounds

|                                |      |     |         |         |      | Qvalue |
|--------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 592095  | 103.350 | ug/L | 99     |
| 3) Chloromethane               | 1.25 | 50  | 536902  | 99.799  | ug/L | 98     |
| 5) Vinyl chloride              | 1.32 | 62  | 571711  | 111.131 | ug/L | 98     |
| 6) Bromomethane                | 1.52 | 94  | 349517  | 134.223 | ug/L | 99     |
| 8) Chloroethane                | 1.60 | 64  | 377040  | 124.866 | ug/L | 99     |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 882234  | 123.883 | ug/L | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 499608  | 123.986 | ug/L | 99     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 475463  | 123.871 | ug/L | 97     |
| 13) Acetone                    | 2.18 | 43  | 741029  | 250.778 | ug/L | 99     |
| 14) Carbon disulfide           | 2.32 | 76  | 1266803 | 100.524 | ug/L | 100    |
| 15) Methyl Acetate             | 2.45 | 43  | 499032  | 100.587 | ug/L | 100    |
| 16) Methylene chloride         | 2.53 | 84  | 496916  | 101.408 | ug/L | 98     |
| 17) trans-1,2-Dichloroethene   | 2.79 | 96  | 477004  | 105.353 | ug/L | 98     |
| 18) Methyl tert-butyl Ether    | 2.80 | 73  | 1454317 | 106.066 | ug/L | 100    |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 852419  | 100.392 | ug/L | 99     |
| 20) cis-1,2-Dichloroethene     | 3.96 | 96  | 534768  | 107.953 | ug/L | 100    |
| 22) 2-Butanone                 | 4.00 | 43  | 812968  | 223.324 | ug/L | 98     |
| 23) Bromochloromethane         | 4.29 | 128 | 284613  | 108.471 | ug/L | 99     |
| 25) Chloroform                 | 4.42 | 83  | 886244  | 100.418 | ug/L | 99     |
| 27) 1,2-Dichloroethane         | 5.17 | 62  | 660814  | 98.985  | ug/L | 100    |
| 29) Cyclohexane                | 4.72 | 56  | 785238  | 104.706 | ug/L | 98     |
| 30) 1,1,1-Trichloroethane      | 4.66 | 97  | 774080  | 104.857 | ug/L | 100    |
| 31) Carbon tetrachloride       | 4.87 | 117 | 691403  | 104.949 | ug/L | 99     |
| 33) Benzene                    | 5.14 | 78  | 1935080 | 103.696 | ug/L | 100    |
| 34) Trichloroethene            | 5.96 | 95  | 509741  | 102.068 | ug/L | 99     |
| 35) Methylcyclohexane          | 6.17 | 83  | 830840  | 108.837 | ug/L | 99     |
| 37) 1,2-Dichloropropane        | 6.22 | 63  | 473451  | 97.605  | ug/L | 100    |
| 38) Bromodichloromethane       | 6.55 | 83  | 670153  | 104.080 | ug/L | 100    |
| 39) cis-1,3-Dichloropropene    | 7.06 | 75  | 788474  | 106.182 | ug/L | 98     |
| 40) 4-Methyl-2-pentanone       | 7.26 | 43  | 1282532 | 207.869 | ug/L | 98     |

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 Acq On : 02 Dec 2019 13:00  
 Operator : SY/MD  
 Sample : VSTD10061  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD10061

Quant Time: Dec 03 01:27:25 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM120219WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Dec 03 01:23:48 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 42) Toluene                    | 7.43  | 91   | 2045500  | 105.533 | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene  | 7.69  | 75   | 691386   | 107.328 | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane      | 7.88  | 97   | 466895   | 101.643 | ug/L  | 98       |
| 46) Tetrachloroethene          | 8.02  | 164  | 463649   | 107.758 | ug/L  | 97       |
| 48) 2-Hexanone                 | 8.18  | 43   | 1024292  | 211.526 | ug/L  | 97       |
| 49) Dibromochloromethane       | 8.29  | 129  | 571920   | 107.435 | ug/L  | 99       |
| 50) 1,2-Dibromoethane          | 8.39  | 107  | 503242   | 103.517 | ug/L  | 99       |
| 51) Chlorobenzene              | 8.92  | 112  | 1354203  | 104.147 | ug/L  | 99       |
| 52) Ethylbenzene               | 9.05  | 91   | 2289734  | 108.542 | ug/L  | 100      |
| 53) m,p-Xylene                 | 9.18  | 106  | 896363   | 111.288 | ug/L  | 98       |
| 54) o-xylene                   | 9.58  | 106  | 866333   | 110.750 | ug/L  | 100      |
| 55) Styrene                    | 9.60  | 104  | 1522190  | 112.026 | ug/L  | 98       |
| 56) Isopropylbenzene           | 9.97  | 105  | 2321058  | 111.294 | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.28 | 83   | 805879   | 114.134 | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.31 | 75   | 650843   | 110.600 | ug/L  | 100      |
| 61) Bromoform                  | 9.77  | 173  | 465418   | 96.720  | ug/L  | 98       |
| 62) 1,3-Dichlorobenzene        | 11.22 | 146  | 1277291  | 101.828 | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene        | 11.31 | 146  | 1338464  | 102.648 | ug/L  | 100      |
| 65) 1,2-Dichlorobenzene        | 11.68 | 146  | 1263390  | 100.556 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.47 | 75   | 176733   | 101.611 | ug/L  | 96       |
| 67) 1,3,5-Trichlorobenzene     | 12.69 | 180  | 1047338  | 106.425 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.31 | 180  | 977032   | 112.797 | ug/L  | 99       |
| 69) Naphthalene                | 13.54 | 128  | 2580649  | 111.518 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.79 | 180  | 976240   | 105.603 | ug/L  | 99       |

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

