

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV031819\  
 Data File : VV009772.D  
 Acq On : 18 Mar 2019 21:02  
 Operator : SY/MD  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05085

Quant Time: Mar 19 04:36:38 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM031719WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Mar 18 12:32:58 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 145888   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 141832   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 67567    | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 40069    | 40.73    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 81.46% |
| 7) Chloroethane-d5             | 1.56    | 69    | 33568    | 46.26    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 92.52% |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 93299    | 44.54    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 89.08% |
| 21) 2-Butanone-d5              | 3.93    | 46    | 57823    | 98.69    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 98.69% |
| 24) Chloroform-d               | 4.40    | 84    | 85411    | 47.26    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 94.52% |
| 26) 1,2-Dichloroethane-d4      | 5.08    | 65    | 50772    | 46.29    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.58% |
| 32) Benzene-d6                 | 5.10    | 84    | 173003   | 46.68    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.36% |
| 36) 1,2-Dichloropropane-d6     | 6.12    | 67    | 51198    | 45.37    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 90.74% |
| 41) Toluene-d8                 | 7.36    | 98    | 164486   | 46.12    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 92.24% |
| 43) trans-1,3-Dichloropropene- | 7.66    | 79    | 25193    | 47.21    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 94.42% |
| 47) 2-Hexanone-d5              | 8.13    | 63    | 44964    | 97.91    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 97.91% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26   | 84    | 83822    | 48.97    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 97.94% |
| 64) 1,2-Dichlorobenzene-d4     | 11.68   | 152   | 65039    | 47.57    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 95.14% |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 53351  | 49.371 | ug/L 100 |
| 3) Chloromethane               | 1.25 | 50  | 49384  | 48.970 | ug/L 96  |
| 5) Vinyl chloride              | 1.32 | 62  | 54488  | 50.314 | ug/L 99  |
| 6) Bromomethane                | 1.51 | 94  | 20096  | 34.844 | ug/L 98  |
| 8) Chloroethane                | 1.58 | 64  | 32668  | 49.623 | ug/L 89  |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 90342  | 49.822 | ug/L 99  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 47595  | 47.428 | ug/L 99  |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 43841  | 50.406 | ug/L 96  |
| 13) Acetone                    | 2.19 | 43  | 42532  | 76.644 | ug/L 100 |
| 14) Carbon disulfide           | 2.31 | 76  | 126144 | 49.737 | ug/L 100 |
| 15) Methyl Acetate             | 2.46 | 43  | 44587  | 47.644 | ug/L 99  |
| 16) Methylene chloride         | 2.53 | 84  | 50487  | 49.963 | ug/L 97  |
| 17) trans-1,2-Dichloroethene   | 2.79 | 96  | 45853  | 49.225 | ug/L 95  |
| 18) Methyl tert-butyl Ether    | 2.80 | 73  | 147385 | 50.060 | ug/L 99  |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 81598  | 49.943 | ug/L 97  |
| 20) cis-1,2-Dichloroethene     | 3.96 | 96  | 53154  | 49.838 | ug/L 92  |
| 22) 2-Butanone                 | 4.02 | 43  | 63273  | 90.346 | ug/L 95  |

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 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05085

Quant Time: Mar 19 04:36:38 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM031719WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Mar 18 12:32:58 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|---------|--------|----------|
| 23) Bromochloromethane          | 4.30  | 128  | 27477    | 50.905  | ug/L   | 96       |
| 25) Chloroform                  | 4.43  | 83   | 90087    | 50.010  | ug/L   | 98       |
| 27) 1,2-Dichloroethane          | 5.18  | 62   | 67069    | 50.038  | ug/L   | 99       |
| 29) Cyclohexane                 | 4.72  | 56   | 73036    | 48.117  | ug/L   | 98       |
| 30) 1,1,1-Trichloroethane       | 4.66  | 97   | 78338    | 50.752  | ug/L   | 98       |
| 31) Carbon tetrachloride        | 4.88  | 117  | 69016    | 54.124  | ug/L   | 99       |
| 33) Benzene                     | 5.15  | 78   | 196489   | 50.757  | ug/L   | 100      |
| 34) Trichloroethene             | 5.96  | 95   | 49472    | 49.029  | ug/L   | 97       |
| 35) Methylcyclohexane           | 6.18  | 83   | 81178    | 48.886  | ug/L   | 99       |
| 37) 1,2-Dichloropropane         | 6.22  | 63   | 48805    | 49.438  | ug/L   | 99       |
| 38) Bromodichloromethane        | 6.56  | 83   | 65546    | 50.527  | ug/L   | 99       |
| 39) cis-1,3-Dichloropropene     | 7.07  | 75   | 77943    | 51.685  | ug/L   | 100      |
| 40) 4-Methyl-2-pentanone        | 7.27  | 43   | 127391   | 98.277  | ug/L   | 99       |
| 42) Toluene                     | 7.43  | 91   | 220503   | 51.111  | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene   | 7.69  | 75   | 71201    | 49.859  | ug/L   | 100      |
| 45) 1,1,2-Trichloroethane       | 7.88  | 97   | 52826    | 51.732  | ug/L   | 99       |
| 46) Tetrachloroethene           | 8.02  | 164  | 40771    | 48.404  | ug/L   | 97       |
| 48) 2-Hexanone                  | 8.18  | 43   | 99709    | 103.338 | ug/L   | 98       |
| 49) Dibromochloromethane        | 8.29  | 129  | 57849    | 52.808  | ug/L   | 100      |
| 50) 1,2-Dibromoethane           | 8.40  | 107  | 55305    | 51.942  | ug/L # | 99       |
| 51) Chlorobenzene               | 8.93  | 112  | 146490   | 50.574  | ug/L   | 98       |
| 52) Ethylbenzene                | 9.06  | 91   | 244497   | 49.967  | ug/L   | 99       |
| 53) m,p-Xylene                  | 9.18  | 106  | 93524    | 49.474  | ug/L   | 97       |
| 54) o-Xylene                    | 9.59  | 106  | 93779    | 49.333  | ug/L   | 96       |
| 55) Styrene                     | 9.60  | 104  | 157128   | 50.712  | ug/L   | 98       |
| 56) Isopropylbenzene            | 9.98  | 105  | 246126   | 49.757  | ug/L   | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.29 | 83   | 90716    | 51.121  | ug/L   | 97       |
| 59) 1,2,3-Trichloropropane      | 10.32 | 75   | 65564    | 50.477  | ug/L   | 99       |
| 61) Bromoform                   | 9.78  | 173  | 40235    | 50.096  | ug/L   | 99       |
| 62) 1,3-Dichlorobenzene         | 11.23 | 146  | 107382   | 48.443  | ug/L   | 99       |
| 63) 1,4-Dichlorobenzene         | 11.32 | 146  | 111052   | 49.659  | ug/L   | 99       |
| 65) 1,2-Dichlorobenzene         | 11.69 | 146  | 115627   | 51.122  | ug/L   | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.48 | 75   | 15324    | 48.777  | ug/L   | 92       |
| 67) 1,3,5-Trichlorobenzene      | 12.69 | 180  | 70042    | 49.685  | ug/L   | 97       |
| 68) 1,2,4-trichlorobenzene      | 13.31 | 180  | 52858    | 53.497  | ug/L   | 97       |
| 69) Naphthalene                 | 13.55 | 128  | 140979   | 49.862  | ug/L   | 98       |
| 70) 1,2,3-Trichlorobenzene      | 13.79 | 180  | 54338    | 54.857  | ug/L   | 99       |

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

