

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW070818\  
 Data File : VW003766.D  
 Acq On : 07 Jul 2018 14:12  
 Operator : SY/AP  
 Sample : VSTDCCC025EC  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02593

Quant Time: Jul 09 09:45:28 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM070818S.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Jul 09 09:32:49 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 330452   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 314653   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 161243   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 2.34   | 65    | 96202    | 24.21    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 96.84%   |
| 7) Chloroethane-d5             | 2.89   | 69    | 75551    | 24.25    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 97.00%   |
| 10) 1,1-Dichloroethene-d2      | 4.01   | 63    | 199542   | 23.45    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 93.80%   |
| 20) 2-Butanone-d5              | 7.09   | 46    | 88753    | 64.22    | ug/L | -0.01    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 128.44%  |
| 24) Chloroform-d               | 7.65   | 84    | 205383   | 24.34    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 97.36%   |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 128354   | 25.45    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 101.80%  |
| 29) Benzene-d6                 | 8.28   | 84    | 385627   | 23.98    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 95.92%   |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 125275   | 23.86    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 95.44%   |
| 37) Toluene-d8                 | 10.33  | 98    | 372624   | 24.68    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 98.72%   |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 60253    | 25.31    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 101.24%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 69740    | 69.07    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 138.14%# |
| 48) 1,1,2,2-Tetrachloroethane- | 12.70  | 84    | 137128   | 28.68    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 114.72%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.86  | 152   | 141176   | 24.39    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 97.56%   |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc  | Units | Ovalue |
|--------------------------------|------|------|----------|-------|-------|--------|
| 2) Dichlorodifluoromethane     | 2.00 | 85   | 47604    | 33.68 | ug/L  | # 85   |
| 3) Chloromethane               | 2.20 | 50   | 84214    | 26.57 | ug/L  | 98     |
| 5) Vinyl chloride              | 2.36 | 62   | 119834   | 24.87 | ug/L  | 98     |
| 6) Bromomethane                | 2.78 | 94   | 75480    | 28.71 | ug/L  | 99     |
| 8) Chloroethane                | 2.92 | 64   | 69305    | 24.16 | ug/L  | 100    |
| 9) Trichlorofluoromethane      | 3.25 | 101  | 50431    | 19.55 | ug/L  | 99     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.05 | 101  | 102589   | 24.95 | ug/L  | 99     |
| 12) 1,1-Dichloroethene         | 4.03 | 96   | 102554   | 25.38 | ug/L  | 97     |
| 13) Acetone                    | 4.14 | 43   | 80221    | 57.49 | ug/L  | 99     |
| 14) Carbon disulfide           | 4.37 | 76   | 322627   | 24.64 | ug/L  | 99     |
| 15) Methyl Acetate             | 4.67 | 43   | 81725    | 31.78 | ug/L  | 99     |
| 16) Methylene chloride         | 4.91 | 84   | 114181   | 24.18 | ug/L  | 99     |
| 17) Methyl tert-butyl Ether    | 5.43 | 73   | 213438   | 27.44 | ug/L  | 100    |
| 18) trans-1,2-Dichloroethene   | 5.41 | 96   | 109089   | 25.26 | ug/L  | 97     |
| 19) 1,1-Dichloroethane         | 6.21 | 63   | 210450   | 25.84 | ug/L  | 100    |
| 21) 2-Butanone                 | 7.18 | 43   | 112891   | 66.32 | ug/L  | 98     |
| 22) cis-1,2-Dichloroethene     | 7.17 | 96   | 121030   | 26.32 | ug/L  | 98     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW070818\  
 Data File : VW003766.D  
 Acq On : 07 Jul 2018 14:12  
 Operator : SY/AP  
 Sample : VSTDCCC025EC  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02593

Quant Time: Jul 09 09:45:28 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM070818S.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Jul 09 09:32:49 2018  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------------|-------|------|----------|-------|-------|----------|
| 23) Bromochloromethane          | 7.51  | 128  | 56693    | 26.82 | ug/L  | 98       |
| 25) Chloroform                  | 7.68  | 83   | 219127   | 26.20 | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 8.40  | 62   | 167218   | 27.73 | ug/L  | 99       |
| 30) Cyclohexane                 | 7.95  | 56   | 186268   | 25.70 | ug/L  | 100      |
| 31) 1,1,1-Trichloroethane       | 7.87  | 97   | 168866   | 24.40 | ug/L  | 100      |
| 32) Carbon tetrachloride        | 8.07  | 117  | 165792   | 25.31 | ug/L  | 100      |
| 34) Benzene                     | 8.32  | 78   | 480388   | 26.10 | ug/L  | 100      |
| 35) Trichloroethene             | 9.09  | 95   | 124811   | 25.32 | ug/L  | 100      |
| 36) Methylcyclohexane           | 9.34  | 83   | 211815   | 25.49 | ug/L  | 99       |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 130354   | 26.62 | ug/L  | 99       |
| 41) Bromodichloromethane        | 9.65  | 83   | 163693   | 26.44 | ug/L  | 99       |
| 42) cis-1,3-Dichloropropene     | 10.07 | 75   | 191667   | 26.44 | ug/L  | 98       |
| 43) 4-Methyl-2-pentanone        | 10.22 | 43   | 236354   | 69.40 | ug/L  | 100      |
| 44) Toluene                     | 10.39 | 91   | 525486   | 26.71 | ug/L  | 99       |
| 45) trans-1,3-Dichloropropene   | 10.61 | 75   | 179220   | 27.21 | ug/L  | 99       |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 100018   | 27.51 | ug/L  | 99       |
| 47) Tetrachloroethene           | 10.87 | 164  | 101890   | 25.41 | ug/L  | 98       |
| 49) 2-Hexanone                  | 10.98 | 43   | 178542   | 69.24 | ug/L  | 98       |
| 50) Dibromochloromethane        | 11.13 | 129  | 118873   | 27.44 | ug/L  | 96       |
| 51) 1,2-Dibromoethane           | 11.24 | 107  | 100727   | 28.44 | ug/L  | 99       |
| 52) Chlorobenzene               | 11.66 | 112  | 331369   | 25.82 | ug/L  | 98       |
| 53) Ethylbenzene                | 11.74 | 91   | 589269   | 26.44 | ug/L  | 98       |
| 54) m,p-Xylene                  | 11.84 | 106  | 221694   | 27.05 | ug/L  | 99       |
| 55) o-xylene                    | 12.17 | 106  | 209553   | 27.14 | ug/L  | 97       |
| 56) Styrene                     | 12.19 | 104  | 372321   | 27.80 | ug/L  | 99       |
| 57) Isopropylbenzene            | 12.47 | 105  | 575146   | 26.82 | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.72 | 83   | 144324   | 30.24 | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 111827   | 30.68 | ug/L  | 99       |
| 62) Bromoform                   | 12.35 | 173  | 78605    | 29.15 | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene         | 13.51 | 146  | 254067   | 25.45 | ug/L  | 99       |
| 64) 1,4-Dichlorobenzene         | 13.59 | 146  | 268559   | 25.42 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 13.88 | 146  | 249426   | 25.91 | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.49 | 75   | 27684    | 32.49 | ug/L  | 96       |
| 67) 1,3,5-Trichlorobenzene      | 14.64 | 180  | 199077   | 25.52 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 15.15 | 180  | 164264   | 26.01 | ug/L  | 99       |
| 69) Naphthalene                 | 15.38 | 128  | 398532   | 31.32 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 15.57 | 180  | 161377   | 27.50 | ug/L  | 99       |

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

