

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW041019\  
 Data File : VW009903.D  
 Acq On : 11 Apr 2019 02:05  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA\_W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02526

Quant Time: Apr 11 06:38:47 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM040319S.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Apr 11 03:44:42 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 505542   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 490153   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 248055   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 163974   | 24.79    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 99.16%   |
| 7) Chloroethane-d5             | 2.89   | 69    | 148890   | 24.57    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 98.28%   |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 398448   | 28.01    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 112.04%# |
| 20) 2-Butanone-d5              | 7.07   | 46    | 137750   | 64.13    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 128.26%  |
| 24) Chloroform-d               | 7.65   | 84    | 406315   | 29.45    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 117.80%  |
| 26) 1,2-Dichloroethane-d4      | 8.30   | 65    | 249211   | 29.43    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 117.72%  |
| 29) Benzene-d6                 | 8.27   | 84    | 773583   | 30.06    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 120.24%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 231985   | 29.19    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 116.76%  |
| 37) Toluene-d8                 | 10.32  | 98    | 709610   | 29.83    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 119.32%  |
| 38) trans-1,3-Dichloropropene- | 10.57  | 79    | 106882   | 28.20    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 112.80%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 101359   | 67.66    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 135.32%# |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 223274   | 30.22    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 120.88%# |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 250129   | 28.74    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 114.96%  |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 2.01 | 85   | 142438   | 21.389 | ug/L   | 87     |
| 3) Chloromethane               | 2.21 | 50   | 142484   | 20.704 | ug/L   | 97     |
| 5) Vinyl chloride              | 2.37 | 62   | 181029   | 20.507 | ug/L   | 92     |
| 6) Bromomethane                | 2.78 | 94   | 121209   | 19.843 | ug/L   | 99     |
| 8) Chloroethane                | 2.93 | 64   | 122861   | 21.205 | ug/L   | 99     |
| 9) Trichlorofluoromethane      | 3.26 | 101  | 100047   | 18.475 | ug/L   | 100    |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06 | 101  | 174873   | 24.826 | ug/L # | 84     |
| 12) 1,1-Dichloroethene         | 4.04 | 96   | 169454   | 25.237 | ug/L   | 95     |
| 13) Acetone                    | 4.12 | 43   | 106613   | 46.326 | ug/L   | 99     |
| 14) Carbon disulfide           | 4.38 | 76   | 471969   | 22.613 | ug/L   | 99     |
| 15) Methyl Acetate             | 4.67 | 43   | 122651   | 29.229 | ug/L   | 99     |
| 16) Methylene chloride         | 4.91 | 84   | 199649   | 22.393 | ug/L   | 99     |
| 17) Methyl tert-butyl Ether    | 5.42 | 73   | 272919   | 29.505 | ug/L   | 99     |
| 18) trans-1,2-Dichloroethene   | 5.42 | 96   | 182191   | 26.090 | ug/L   | 96     |
| 19) 1,1-Dichloroethane         | 6.21 | 63   | 374785   | 27.967 | ug/L   | 96     |
| 21) 2-Butanone                 | 7.16 | 43   | 169670   | 57.968 | ug/L   | 97     |
| 22) cis-1,2-Dichloroethene     | 7.16 | 96   | 209160   | 28.005 | ug/L   | 100    |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW041019\  
 Data File : VW009903.D  
 Acq On : 11 Apr 2019 02:05  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA\_W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02526

Quant Time: Apr 11 06:38:47 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM040319S.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Apr 11 03:44:42 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 7.51  | 128  | 96800    | 28.250 | ug/L  | 94       |
| 25) Chloroform                 | 7.67  | 83   | 387462   | 27.602 | ug/L  | 98       |
| 27) 1,2-Dichloroethane         | 8.40  | 62   | 302169   | 28.461 | ug/L  | 98       |
| 30) Cyclohexane                | 7.95  | 56   | 303716   | 26.253 | ug/L  | 99       |
| 31) 1,1,1-Trichloroethane      | 7.87  | 97   | 295101   | 26.540 | ug/L  | 99       |
| 32) Carbon tetrachloride       | 8.06  | 117  | 285299   | 25.592 | ug/L  | 99       |
| 34) Benzene                    | 8.32  | 78   | 814081   | 27.605 | ug/L  | 100      |
| 35) Trichloroethene            | 9.09  | 95   | 204497   | 26.497 | ug/L  | 99       |
| 36) Methylcyclohexane          | 9.34  | 83   | 331769   | 26.147 | ug/L  | 99       |
| 40) 1,2-Dichloropropane        | 9.37  | 63   | 211607   | 28.031 | ug/L  | 99       |
| 41) Bromodichloromethane       | 9.64  | 83   | 288243   | 27.672 | ug/L  | 100      |
| 42) cis-1,3-Dichloropropene    | 10.07 | 75   | 322969   | 27.616 | ug/L  | 97       |
| 43) 4-Methyl-2-pentanone       | 10.21 | 43   | 372833   | 63.581 | ug/L  | 99       |
| 44) Toluene                    | 10.38 | 91   | 868950   | 27.815 | ug/L  | 99       |
| 45) trans-1,3-Dichloropropene  | 10.60 | 75   | 282798   | 28.047 | ug/L  | 97       |
| 46) 1,1,2-Trichloroethane      | 10.79 | 97   | 162849   | 28.740 | ug/L  | 96       |
| 47) Tetrachloroethene          | 10.86 | 164  | 157324   | 25.883 | ug/L  | 99       |
| 49) 2-Hexanone                 | 10.97 | 43   | 273965   | 62.746 | ug/L  | 99       |
| 50) Dibromochloromethane       | 11.13 | 129  | 194447   | 27.932 | ug/L  | 96       |
| 51) 1,2-Dibromoethane          | 11.23 | 107  | 159886   | 28.153 | ug/L  | 99       |
| 52) Chlorobenzene              | 11.66 | 112  | 545846   | 27.145 | ug/L  | 99       |
| 53) Ethylbenzene               | 11.73 | 91   | 986315   | 27.716 | ug/L  | 100      |
| 54) m,p-Xylene                 | 11.84 | 106  | 365251   | 27.750 | ug/L  | 100      |
| 55) o-xylene                   | 12.16 | 106  | 352102   | 28.088 | ug/L  | 98       |
| 56) Styrene                    | 12.18 | 104  | 623636   | 28.671 | ug/L  | 98       |
| 57) Isopropylbenzene           | 12.46 | 105  | 975950   | 28.432 | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 224339   | 29.443 | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane     | 12.77 | 75   | 168365   | 29.684 | ug/L  | 100      |
| 62) Bromoform                  | 12.35 | 173  | 117526   | 26.947 | ug/L  | 98       |
| 63) 1,3-Dichlorobenzene        | 13.50 | 146  | 407857   | 26.580 | ug/L  | 100      |
| 64) 1,4-Dichlorobenzene        | 13.58 | 146  | 433890   | 26.516 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 13.87 | 146  | 407883   | 27.785 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 14.49 | 75   | 41066    | 28.738 | ug/L  | 89       |
| 67) 1,3,5-Trichlorobenzene     | 14.63 | 180  | 303664   | 26.672 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 15.14 | 180  | 248539   | 27.182 | ug/L  | 100      |
| 69) Naphthalene                | 15.37 | 128  | 562226   | 30.594 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 15.56 | 180  | 245439   | 28.695 | ug/L  | 99       |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW041019\  
 Data File : VW009903.D  
 Acq On : 11 Apr 2019 02:05  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA\_W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02526

Quant Time: Apr 11 06:38:47 2019  
 Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM040319S.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Apr 11 03:44:42 2019  
 Response via : Initial Calibration

