

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW042919\  
 Data File : VW010226.D  
 Acq On : 30 Apr 2019 21:02  
 Operator : SY/VA  
 Sample : VSTDCCC025EC  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02529

Quant Time: May 01 06:47:50 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM042919S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed May 01 03:52:51 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 592522   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 576903   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 276282   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 152269   | 22.65    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 90.60%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 127571   | 23.15    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 92.60%  |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 318090   | 21.28    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 85.12%  |
| 20) 2-Butanone-d5              | 7.07   | 46    | 136188   | 54.93    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 109.86% |
| 24) Chloroform-d               | 7.64   | 84    | 370448   | 24.13    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 96.52%  |
| 26) 1,2-Dichloroethane-d4      | 8.30   | 65    | 217531   | 24.66    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 98.64%  |
| 29) Benzene-d6                 | 8.27   | 84    | 687851   | 22.14    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 88.56%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 218641   | 22.53    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 90.12%  |
| 37) Toluene-d8                 | 10.32  | 98    | 620510   | 21.97    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 87.88%  |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 103234   | 23.09    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 92.36%  |
| 39) 2-Hexanone-d5              | 10.92  | 63    | 117012   | 57.37    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 114.74% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 244739   | 29.53    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 118.12% |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 242708   | 23.65    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 94.60%  |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units  | Ovalue |
|--------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 2.01 | 85   | 194498   | 23.367 | ug/L   | 85     |
| 3) Chloromethane               | 2.21 | 50   | 200321   | 28.596 | ug/L   | 98     |
| 5) Vinyl chloride              | 2.37 | 62   | 239390   | 27.853 | ug/L   | 96     |
| 6) Bromomethane                | 2.78 | 94   | 128431   | 26.164 | ug/L   | 100    |
| 8) Chloroethane                | 2.93 | 64   | 131107   | 25.585 | ug/L   | 96     |
| 9) Trichlorofluoromethane      | 3.25 | 101  | 107737   | 23.047 | ug/L   | 100    |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.05 | 101  | 170027   | 23.792 | ug/L   | 99     |
| 12) 1,1-Dichloroethene         | 4.04 | 96   | 179602   | 24.966 | ug/L   | 92     |
| 13) Acetone                    | 4.12 | 43   | 87414    | 44.616 | ug/L   | 70     |
| 14) Carbon disulfide           | 4.38 | 76   | 485967   | 23.445 | ug/L   | 99     |
| 15) Methyl Acetate             | 4.67 | 43   | 109886   | 25.832 | ug/L   | 99     |
| 16) Methylene chloride         | 4.91 | 84   | 194984   | 19.776 | ug/L   | 96     |
| 17) Methyl tert-butyl Ether    | 5.43 | 73   | 263308   | 28.156 | ug/L # | 91     |
| 18) trans-1,2-Dichloroethene   | 5.41 | 96   | 190095   | 25.012 | ug/L   | 98     |
| 19) 1,1-Dichloroethane         | 6.21 | 63   | 365212   | 25.885 | ug/L   | 98     |
| 21) 2-Butanone                 | 7.17 | 43   | 154056   | 56.069 | ug/L   | 97     |
| 22) cis-1,2-Dichloroethene     | 7.16 | 96   | 220139   | 26.784 | ug/L   | 95     |

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 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 7.51  | 128  | 101863   | 26.957 | ug/L  | 93       |
| 25) Chloroform                  | 7.67  | 83   | 380709   | 26.335 | ug/L  | 100      |
| 27) 1,2-Dichloroethane          | 8.40  | 62   | 278848   | 27.255 | ug/L  | 98       |
| 30) Cyclohexane                 | 7.95  | 56   | 309959   | 23.728 | ug/L  | 98       |
| 31) 1,1,1-Trichloroethane       | 7.87  | 97   | 287972   | 23.891 | ug/L  | 99       |
| 32) Carbon tetrachloride        | 8.06  | 117  | 288784   | 24.138 | ug/L  | 100      |
| 34) Benzene                     | 8.32  | 78   | 800252   | 24.720 | ug/L  | 100      |
| 35) Trichloroethene             | 9.09  | 95   | 213297   | 24.710 | ug/L  | 99       |
| 36) Methylcyclohexane           | 9.33  | 83   | 326183   | 22.707 | ug/L  | 99       |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 210731   | 25.085 | ug/L  | 99       |
| 41) Bromodichloromethane        | 9.64  | 83   | 283912   | 25.706 | ug/L  | 98       |
| 42) cis-1,3-Dichloropropene     | 10.07 | 75   | 338088   | 25.871 | ug/L  | 98       |
| 43) 4-Methyl-2-pentanone        | 10.21 | 43   | 333704   | 56.362 | ug/L  | 100      |
| 44) Toluene                     | 10.39 | 91   | 881622   | 25.445 | ug/L  | 100      |
| 45) trans-1,3-Dichloropropene   | 10.60 | 75   | 299546   | 26.348 | ug/L  | 99       |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 164657   | 26.224 | ug/L  | 99       |
| 47) Tetrachloroethene           | 10.86 | 164  | 171160   | 23.895 | ug/L  | 95       |
| 49) 2-Hexanone                  | 10.97 | 43   | 237141   | 56.027 | ug/L  | 98       |
| 50) Dibromochloromethane        | 11.13 | 129  | 202889   | 26.022 | ug/L  | 94       |
| 51) 1,2-Dibromoethane           | 11.24 | 107  | 159749   | 25.989 | ug/L  | 95       |
| 52) Chlorobenzene               | 11.66 | 112  | 628272   | 27.681 | ug/L  | 98       |
| 53) Ethylbenzene                | 11.73 | 91   | 1215512  | 30.986 | ug/L  | 99       |
| 54) m,p-Xylene                  | 11.84 | 106  | 444890   | 30.135 | ug/L  | 99       |
| 55) o-xylene                    | 12.16 | 106  | 435493   | 31.205 | ug/L  | 97       |
| 56) Styrene                     | 12.18 | 104  | 767613   | 31.761 | ug/L  | 99       |
| 57) Isopropylbenzene            | 12.46 | 105  | 1135775  | 29.907 | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.71 | 83   | 231579   | 29.616 | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 189775   | 32.556 | ug/L  | 98       |
| 62) Bromoform                   | 12.35 | 173  | 135485   | 30.518 | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene         | 13.50 | 146  | 429425   | 25.736 | ug/L  | 99       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 448778   | 25.582 | ug/L  | 96       |
| 65) 1,2-Dichlorobenzene         | 13.87 | 146  | 416821   | 26.521 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.49 | 75   | 40714    | 31.199 | ug/L  | 86       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 307098   | 23.920 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 15.14 | 180  | 260424   | 25.050 | ug/L  | 100      |
| 69) Naphthalene                 | 15.37 | 128  | 612669   | 28.779 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 15.56 | 180  | 248114   | 25.254 | ug/L  | 99       |

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

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