

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW040819\  
 Data File : VW009860.D  
 Acq On : 10 Apr 2019 02:50  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA\_W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02523

Quant Time: Apr 10 06:04:46 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM040319S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Apr 10 04:42:28 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 491510   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 475190   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 237228   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 163621   | 25.44    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 101.76% |
| 7) Chloroethane-d5             | 2.89   | 69    | 148583   | 25.22    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 100.88% |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 371817   | 26.88    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 107.52% |
| 20) 2-Butanone-d5              | 7.08   | 46    | 122989   | 58.89    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 117.78% |
| 24) Chloroform-d               | 7.65   | 84    | 384675   | 28.68    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 114.72% |
| 26) 1,2-Dichloroethane-d4      | 8.30   | 65    | 233513   | 28.36    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 113.44% |
| 29) Benzene-d6                 | 8.27   | 84    | 723326   | 29.00    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 116.00% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 219981   | 28.55    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 114.20% |
| 37) Toluene-d8                 | 10.32  | 98    | 659387   | 28.59    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 114.36% |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 101126   | 27.52    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 110.08% |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 89855    | 61.87    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 123.74% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 203619   | 28.43    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 113.72% |
| 61) 1,2-Dichlorobenzene-d4     | 13.86  | 152   | 234315   | 28.15    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 112.60% |

## Target Compounds

|                                |      |     |        |             | Qvalue |
|--------------------------------|------|-----|--------|-------------|--------|
| 2) Dichlorodifluoromethane     | 2.01 | 85  | 143262 | 22.127 ug/L | 91     |
| 3) Chloromethane               | 2.21 | 50  | 141792 | 21.191 ug/L | 99     |
| 5) Vinyl chloride              | 2.37 | 62  | 179233 | 20.883 ug/L | 100    |
| 6) Bromomethane                | 2.78 | 94  | 120404 | 20.274 ug/L | 100    |
| 8) Chloroethane                | 2.93 | 64  | 118909 | 21.109 ug/L | 98     |
| 9) Trichlorofluoromethane      | 3.26 | 101 | 96097  | 18.252 ug/L | 100    |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06 | 101 | 158385 | 23.127 ug/L | 97     |
| 12) 1,1-Dichloroethene         | 4.04 | 96  | 155177 | 23.770 ug/L | 96     |
| 13) Acetone                    | 4.12 | 43  | 92791  | 41.471 ug/L | 100    |
| 14) Carbon disulfide           | 4.38 | 76  | 437958 | 21.583 ug/L | 97     |
| 15) Methyl Acetate             | 4.67 | 43  | 107506 | 26.351 ug/L | 99     |
| 16) Methylene chloride         | 4.91 | 84  | 187005 | 21.573 ug/L | 97     |
| 17) Methyl tert-butyl Ether    | 5.43 | 73  | 248716 | 27.656 ug/L | 99     |
| 18) trans-1,2-Dichloroethene   | 5.42 | 96  | 165147 | 24.324 ug/L | 96     |
| 19) 1,1-Dichloroethane         | 6.21 | 63  | 341114 | 26.181 ug/L | 100    |
| 21) 2-Butanone                 | 7.16 | 43  | 141476 | 49.716 ug/L | 99     |
| 22) cis-1,2-Dichloroethene     | 7.16 | 96  | 190703 | 26.263 ug/L | 98     |

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 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA\_W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02523

Quant Time: Apr 10 06:04:46 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM040319S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Apr 10 04:42:28 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane         | 7.51  | 128  | 86253    | 25.891 | ug/L   | 95       |
| 25) Chloroform                 | 7.67  | 83   | 359343   | 26.330 | ug/L   | 100      |
| 27) 1,2-Dichloroethane         | 8.40  | 62   | 276364   | 26.773 | ug/L   | 97       |
| 30) Cyclohexane                | 7.95  | 56   | 272537   | 24.300 | ug/L   | 98       |
| 31) 1,1,1-Trichloroethane      | 7.87  | 97   | 268144   | 24.875 | ug/L   | 99       |
| 32) Carbon tetrachloride       | 8.07  | 117  | 265577   | 24.573 | ug/L   | 100      |
| 34) Benzene                    | 8.32  | 78   | 736295   | 25.754 | ug/L   | 100      |
| 35) Trichloroethene            | 9.09  | 95   | 188235   | 25.158 | ug/L   | 99       |
| 36) Methylcyclohexane          | 9.33  | 83   | 295268   | 24.003 | ug/L   | 99       |
| 40) 1,2-Dichloropropane        | 9.37  | 63   | 193469   | 26.435 | ug/L   | 99       |
| 41) Bromodichloromethane       | 9.64  | 83   | 264737   | 26.216 | ug/L   | 99       |
| 42) cis-1,3-Dichloropropene    | 10.07 | 75   | 296166   | 26.121 | ug/L   | 98       |
| 43) 4-Methyl-2-pentanone       | 10.21 | 43   | 315943   | 55.576 | ug/L   | 99       |
| 44) Toluene                    | 10.38 | 91   | 794970   | 26.248 | ug/L   | 100      |
| 45) trans-1,3-Dichloropropene  | 10.60 | 75   | 256892   | 26.280 | ug/L   | 96       |
| 46) 1,1,2-Trichloroethane      | 10.79 | 97   | 145485   | 26.484 | ug/L   | 97       |
| 47) Tetrachloroethene          | 10.86 | 164  | 140487   | 23.840 | ug/L   | 98       |
| 49) 2-Hexanone                 | 10.97 | 43   | 233166   | 55.084 | ug/L   | 99       |
| 50) Dibromochloromethane       | 11.13 | 129  | 175228   | 25.964 | ug/L   | 95       |
| 51) 1,2-Dibromoethane          | 11.23 | 107  | 142198   | 25.827 | ug/L # | 98       |
| 52) Chlorobenzene              | 11.66 | 112  | 498052   | 25.548 | ug/L   | 98       |
| 53) Ethylbenzene               | 11.73 | 91   | 901650   | 26.135 | ug/L   | 99       |
| 54) m,p-Xylene                 | 11.84 | 106  | 334242   | 26.193 | ug/L   | 100      |
| 55) o-xylene                   | 12.17 | 106  | 321902   | 26.487 | ug/L   | 100      |
| 56) Styrene                    | 12.18 | 104  | 573154   | 27.180 | ug/L   | 100      |
| 57) Isopropylbenzene           | 12.47 | 105  | 874979   | 26.293 | ug/L   | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 199065   | 26.949 | ug/L   | 100      |
| 59) 1,2,3-Trichloropropane     | 12.77 | 75   | 148599   | 27.024 | ug/L   | 98       |
| 62) Bromoform                  | 12.35 | 173  | 102995   | 24.693 | ug/L   | 99       |
| 63) 1,3-Dichlorobenzene        | 13.50 | 146  | 369959   | 25.210 | ug/L   | 99       |
| 64) 1,4-Dichlorobenzene        | 13.58 | 146  | 393575   | 25.150 | ug/L   | 97       |
| 65) 1,2-Dichlorobenzene        | 13.87 | 146  | 370203   | 26.369 | ug/L   | 97       |
| 66) 1,2-Dibromo-3-chloropropan | 14.49 | 75   | 34676    | 25.374 | ug/L   | 96       |
| 67) 1,3,5-Trichlorobenzene     | 14.63 | 180  | 272074   | 24.988 | ug/L   | 99       |
| 68) 1,2,4-trichlorobenzene     | 15.14 | 180  | 224302   | 25.651 | ug/L   | 100      |
| 69) Naphthalene                | 15.37 | 128  | 492021   | 27.995 | ug/L   | 100      |
| 70) 1,2,3-Trichlorobenzene     | 15.56 | 180  | 218783   | 26.746 | ug/L   | 98       |

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

