

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW060920\  
 Data File : VW015565.D  
 Acq On : 09 Jun 2020 11:10  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02525

Quant Time: Jun 10 03:29:11 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM052620S.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Jun 09 12:46:40 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 359965   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 323687   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 158032   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 79463    | 24.09    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 96.36%  |
| 7) Chloroethane-d5             | 2.90   | 69    | 84755    | 25.83    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 103.32% |
| 10) 1,1-Dichloroethene-d2      | 4.01   | 63    | 191922   | 23.88    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 95.52%  |
| 20) 2-Butanone-d5              | 7.08   | 46    | 54530    | 50.63    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 101.26% |
| 24) Chloroform-d               | 7.65   | 84    | 199064   | 23.91    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 95.64%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 111444   | 24.06    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 96.24%  |
| 29) Benzene-d6                 | 8.27   | 84    | 376743   | 23.73    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 94.92%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 115365   | 23.91    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 95.64%  |
| 37) Toluene-d8                 | 10.32  | 98    | 358639   | 23.24    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 92.96%  |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 49471    | 22.17    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 88.68%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 43930    | 52.60    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 105.20% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 93233    | 25.67    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 102.68% |
| 61) 1,2-Dichlorobenzene-d4     | 13.86  | 152   | 124599   | 23.53    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 94.12%  |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 2.01 | 85  | 77769  | 24.455 | ug/L 100 |
| 3) Chloromethane               | 2.21 | 50  | 78126  | 22.317 | ug/L 98  |
| 5) Vinyl chloride              | 2.37 | 62  | 127497 | 24.218 | ug/L 100 |
| 6) Bromomethane                | 2.79 | 94  | 80182  | 23.433 | ug/L 98  |
| 8) Chloroethane                | 2.93 | 64  | 78405  | 24.466 | ug/L 99  |
| 9) Trichlorofluoromethane      | 3.26 | 101 | 98950  | 26.411 | ug/L 98  |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.07 | 101 | 107755 | 24.250 | ug/L 100 |
| 12) 1,1-Dichloroethene         | 4.04 | 96  | 101932 | 23.748 | ug/L 91  |
| 13) Acetone                    | 4.12 | 43  | 51493  | 61.847 | ug/L 99  |
| 14) Carbon disulfide           | 4.38 | 76  | 321344 | 22.442 | ug/L 100 |
| 15) Methyl Acetate             | 4.67 | 43  | 46906  | 26.040 | ug/L 99  |
| 16) Methylene chloride         | 4.92 | 84  | 108223 | 24.497 | ug/L 99  |
| 17) Methyl tert-butyl Ether    | 5.43 | 73  | 163628 | 24.023 | ug/L 100 |
| 18) trans-1,2-Dichloroethene   | 5.42 | 96  | 110933 | 24.117 | ug/L 98  |
| 19) 1,1-Dichloroethane         | 6.21 | 63  | 200429 | 24.225 | ug/L 99  |
| 21) 2-Butanone                 | 7.17 | 43  | 66243  | 51.793 | ug/L 99  |
| 22) cis-1,2-Dichloroethene     | 7.17 | 96  | 115104 | 23.987 | ug/L 98  |

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| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 7.51  | 128  | 50667    | 24.486 | ug/L  | 96       |
| 25) Chloroform                  | 7.68  | 83   | 206000   | 24.727 | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 8.40  | 62   | 142153   | 25.223 | ug/L  | 98       |
| 30) Cyclohexane                 | 7.96  | 56   | 188242   | 23.527 | ug/L  | 99       |
| 31) 1,1,1-Trichloroethane       | 7.87  | 97   | 182324   | 25.178 | ug/L  | 99       |
| 32) Carbon tetrachloride        | 8.07  | 117  | 161098   | 24.256 | ug/L  | 98       |
| 34) Benzene                     | 8.32  | 78   | 447516   | 24.722 | ug/L  | 100      |
| 35) Trichloroethene             | 9.09  | 95   | 118164   | 24.302 | ug/L  | 99       |
| 36) Methylcyclohexane           | 9.34  | 83   | 208279   | 24.017 | ug/L  | 99       |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 110261   | 24.735 | ug/L  | 100      |
| 41) Bromodichloromethane        | 9.65  | 83   | 147125   | 24.705 | ug/L  | 98       |
| 42) cis-1,3-Dichloropropene     | 10.07 | 75   | 173996   | 24.392 | ug/L  | 100      |
| 43) 4-Methyl-2-pentanone        | 10.21 | 43   | 133160   | 50.960 | ug/L  | 99       |
| 44) Toluene                     | 10.39 | 91   | 486502   | 24.669 | ug/L  | 97       |
| 45) trans-1,3-Dichloropropene   | 10.61 | 75   | 153862   | 24.785 | ug/L  | 98       |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 80049    | 25.668 | ug/L  | 99       |
| 47) Tetrachloroethene           | 10.87 | 164  | 94601    | 24.544 | ug/L  | 96       |
| 49) 2-Hexanone                  | 10.97 | 43   | 94918    | 53.816 | ug/L  | 98       |
| 50) Dibromochloromethane        | 11.13 | 129  | 94143    | 24.847 | ug/L  | 94       |
| 51) 1,2-Dibromoethane           | 11.24 | 107  | 75491    | 25.214 | ug/L  | 98       |
| 52) Chlorobenzene               | 11.66 | 112  | 305647   | 24.708 | ug/L  | 99       |
| 53) Ethylbenzene                | 11.73 | 91   | 560472   | 24.750 | ug/L  | 100      |
| 54) m,p-Xylene                  | 11.84 | 106  | 210608   | 24.785 | ug/L  | 99       |
| 55) o-xylene                    | 12.17 | 106  | 197593   | 24.497 | ug/L  | 97       |
| 56) Styrene                     | 12.18 | 104  | 343004   | 24.888 | ug/L  | 99       |
| 57) Isopropylbenzene            | 12.46 | 105  | 555706   | 24.733 | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.72 | 83   | 95068    | 26.331 | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 71379    | 26.073 | ug/L  | 100      |
| 62) Bromoform                   | 12.35 | 173  | 53628    | 24.355 | ug/L  | 98       |
| 63) 1,3-Dichlorobenzene         | 13.50 | 146  | 238246   | 24.637 | ug/L  | 98       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 236587   | 24.969 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 13.87 | 146  | 208608   | 24.824 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.49 | 75   | 16181    | 25.382 | ug/L  | 94       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 171067   | 25.552 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 15.13 | 180  | 138370   | 25.661 | ug/L  | 99       |
| 69) Naphthalene                 | 15.37 | 128  | 255698   | 26.116 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 15.56 | 180  | 114691   | 25.001 | ug/L  | 97       |

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

