

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW112719\  
 Data File : VW014147.D  
 Acq On : 27 Nov 2019 09:23  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02523

Quant Time: Nov 28 07:21:01 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM111119S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Nov 27 18:29:43 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 305652   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 293030   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.55 | 152  | 176333   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 102212   | 20.96    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 83.84% |
| 7) Chloroethane-d5             | 2.89   | 69    | 89033    | 22.52    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 90.08% |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 216674   | 21.65    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 86.60% |
| 20) 2-Butanone-d5              | 7.07   | 46    | 61442    | 43.37    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 86.74% |
| 24) Chloroform-d               | 7.65   | 84    | 231736   | 24.66    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 98.64% |
| 26) 1,2-Dichloroethane-d4      | 8.30   | 65    | 113275   | 23.97    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 95.88% |
| 29) Benzene-d6                 | 8.27   | 84    | 466533   | 22.44    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 89.76% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 141425   | 23.22    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 92.88% |
| 37) Toluene-d8                 | 10.32  | 98    | 434103   | 22.02    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 88.08% |
| 38) trans-1,3-Dichloropropene- | 10.57  | 79    | 55985    | 21.46    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 85.84% |
| 39) 2-Hexanone-d5              | 10.92  | 63    | 50086    | 43.37    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 86.74% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 105193   | 22.87    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 91.48% |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 155511   | 21.95    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 87.80% |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 2.01 | 85   | 71348    | 19.628 | ug/L  | 97     |
| 3) Chloromethane               | 2.21 | 50   | 66992    | 20.749 | ug/L  | 100    |
| 5) Vinyl chloride              | 2.36 | 62   | 121801   | 24.160 | ug/L  | 93     |
| 6) Bromomethane                | 2.78 | 94   | 74761    | 23.952 | ug/L  | 100    |
| 8) Chloroethane                | 2.92 | 64   | 71129    | 23.720 | ug/L  | 96     |
| 9) Trichlorofluoromethane      | 3.26 | 101  | 86218    | 25.080 | ug/L  | 100    |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06 | 101  | 126696   | 24.960 | ug/L  | 98     |
| 12) 1,1-Dichloroethene         | 4.04 | 96   | 120044   | 23.265 | ug/L  | 99     |
| 13) Acetone                    | 4.12 | 43   | 54808    | 38.018 | ug/L  | 98     |
| 14) Carbon disulfide           | 4.38 | 76   | 332658   | 22.652 | ug/L  | 99     |
| 15) Methyl Acetate             | 4.67 | 43   | 46967    | 20.136 | ug/L  | 99     |
| 16) Methylene chloride         | 4.92 | 84   | 119568   | 20.320 | ug/L  | 97     |
| 17) Methyl tert-butyl Ether    | 5.42 | 73   | 144946   | 21.775 | ug/L  | 99     |
| 18) trans-1,2-Dichloroethene   | 5.42 | 96   | 125188   | 23.266 | ug/L  | 96     |
| 19) 1,1-Dichloroethane         | 6.21 | 63   | 223979   | 24.713 | ug/L  | 99     |
| 21) 2-Butanone                 | 7.16 | 43   | 68468    | 36.968 | ug/L  | 99     |
| 22) cis-1,2-Dichloroethene     | 7.16 | 96   | 134587   | 23.770 | ug/L  | 98     |

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 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 7.51  | 128  | 59206    | 23.821 | ug/L  | 96       |
| 25) Chloroform                  | 7.67  | 83   | 221820   | 24.923 | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 8.40  | 62   | 130447   | 24.208 | ug/L  | 100      |
| 30) Cyclohexane                 | 7.95  | 56   | 209276   | 22.317 | ug/L  | 100      |
| 31) 1,1,1-Trichloroethane       | 7.87  | 97   | 182001   | 24.784 | ug/L  | 99       |
| 32) Carbon tetrachloride        | 8.07  | 117  | 173006   | 24.542 | ug/L  | 100      |
| 34) Benzene                     | 8.32  | 78   | 517918   | 24.096 | ug/L  | 100      |
| 35) Trichloroethene             | 9.09  | 95   | 133790   | 23.335 | ug/L  | 99       |
| 36) Methylcyclohexane           | 9.34  | 83   | 229093   | 22.285 | ug/L  | 97       |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 125303   | 24.217 | ug/L  | 99       |
| 41) Bromodichloromethane        | 9.64  | 83   | 153472   | 24.535 | ug/L  | 95       |
| 42) cis-1,3-Dichloropropene     | 10.07 | 75   | 189758   | 23.240 | ug/L  | 100      |
| 43) 4-Methyl-2-pentanone        | 10.21 | 43   | 135117   | 39.551 | ug/L  | 98       |
| 44) Toluene                     | 10.38 | 91   | 555936   | 23.723 | ug/L  | 99       |
| 45) trans-1,3-Dichloropropene   | 10.60 | 75   | 149268   | 23.117 | ug/L  | 98       |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 86883    | 22.853 | ug/L  | 96       |
| 47) Tetrachloroethene           | 10.86 | 164  | 121489   | 23.773 | ug/L  | 98       |
| 49) 2-Hexanone                  | 10.97 | 43   | 98421    | 39.961 | ug/L  | 99       |
| 50) Dibromochloromethane        | 11.13 | 129  | 107226   | 23.995 | ug/L  | 93       |
| 51) 1,2-Dibromoethane           | 11.23 | 107  | 79205    | 21.473 | ug/L  | 96       |
| 52) Chlorobenzene               | 11.65 | 112  | 345354   | 23.508 | ug/L  | 96       |
| 53) Ethylbenzene                | 11.73 | 91   | 618714   | 24.060 | ug/L  | 97       |
| 54) m,p-Xylene                  | 11.83 | 106  | 240347   | 24.050 | ug/L  | 98       |
| 55) o-xylene                    | 12.16 | 106  | 224892   | 24.031 | ug/L  | 98       |
| 56) Styrene                     | 12.18 | 104  | 384162   | 24.300 | ug/L  | 100      |
| 57) Isopropylbenzene            | 12.46 | 105  | 622125   | 24.178 | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.71 | 83   | 98978    | 22.300 | ug/L  | 97       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 69777    | 20.903 | ug/L  | 99       |
| 62) Bromoform                   | 12.35 | 173  | 63297    | 21.904 | ug/L  | 100      |
| 63) 1,3-Dichlorobenzene         | 13.50 | 146  | 283249   | 22.877 | ug/L  | 99       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 281386   | 23.002 | ug/L  | 100      |
| 65) 1,2-Dichlorobenzene         | 13.87 | 146  | 255694   | 23.321 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.48 | 75   | 14645    | 19.614 | ug/L  | 96       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 224539   | 23.796 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 15.13 | 180  | 168954   | 22.772 | ug/L  | 100      |
| 69) Naphthalene                 | 15.36 | 128  | 258819   | 19.636 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 15.55 | 180  | 149428   | 22.821 | ug/L  | 99       |

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

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