

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW102920\  
 Data File : VW017020.D  
 Acq On : 29 Oct 2020 10:08  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02528

Quant Time: Oct 30 00:06:20 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM102220S.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Oct 29 08:01:00 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 508277   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 478367   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 244844   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 136299   | 23.24    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 92.96%  |
| 7) Chloroethane-d5             | 2.90   | 69    | 114409   | 25.17    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 100.68% |
| 10) 1,1-Dichloroethene-d2      | 4.03   | 63    | 291380   | 25.54    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 102.16% |
| 20) 2-Butanone-d5              | 7.08   | 46    | 63991    | 57.91    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 115.82% |
| 24) Chloroform-d               | 7.65   | 84    | 320759   | 27.36    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 109.44% |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 147924   | 26.81    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 107.24% |
| 29) Benzene-d6                 | 8.27   | 84    | 631127   | 25.68    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 102.72% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 172735   | 26.04    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 104.16% |
| 37) Toluene-d8                 | 10.32  | 98    | 602791   | 26.06    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 104.24% |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 73322    | 26.05    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 104.20% |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 55117    | 59.18    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 118.36% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 138898   | 27.49    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 109.96% |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 219789   | 25.54    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 102.16% |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 2.01 | 85  | 149985 | 25.871 | ug/L 100 |
| 3) Chloromethane               | 2.22 | 50  | 124237 | 24.828 | ug/L 99  |
| 5) Vinyl chloride              | 2.37 | 62  | 196373 | 26.793 | ug/L 99  |
| 6) Bromomethane                | 2.79 | 94  | 131897 | 26.497 | ug/L 99  |
| 8) Chloroethane                | 2.93 | 64  | 115379 | 27.354 | ug/L 96  |
| 9) Trichlorofluoromethane      | 3.27 | 101 | 156709 | 26.957 | ug/L 99  |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.07 | 101 | 196841 | 28.094 | ug/L 98  |
| 12) 1,1-Dichloroethene         | 4.04 | 96  | 183895 | 27.638 | ug/L 98  |
| 13) Acetone                    | 4.13 | 43  | 41667  | 56.037 | ug/L 97  |
| 14) Carbon disulfide           | 4.39 | 76  | 532403 | 26.394 | ug/L 99  |
| 15) Methyl Acetate             | 4.68 | 43  | 53884  | 27.756 | ug/L 98  |
| 16) Methylene chloride         | 4.92 | 84  | 180112 | 26.801 | ug/L 98  |
| 17) Methyl tert-butyl Ether    | 5.43 | 73  | 190523 | 26.269 | ug/L 100 |
| 18) trans-1,2-Dichloroethene   | 5.43 | 96  | 190741 | 27.410 | ug/L 95  |
| 19) 1,1-Dichloroethane         | 6.22 | 63  | 300896 | 28.235 | ug/L 98  |
| 21) 2-Butanone                 | 7.17 | 43  | 67083  | 53.909 | ug/L 97  |
| 22) cis-1,2-Dichloroethene     | 7.17 | 96  | 196329 | 27.907 | ug/L 99  |

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 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 7.52  | 128  | 92376    | 28.444 | ug/L  | 99       |
| 25) Chloroform                  | 7.68  | 83   | 323002   | 28.471 | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 8.40  | 62   | 180950   | 28.009 | ug/L  | 97       |
| 30) Cyclohexane                 | 7.96  | 56   | 267594   | 26.742 | ug/L  | 100      |
| 31) 1,1,1-Trichloroethane       | 7.87  | 97   | 278968   | 26.936 | ug/L  | 100      |
| 32) Carbon tetrachloride        | 8.07  | 117  | 269132   | 27.074 | ug/L  | 100      |
| 34) Benzene                     | 8.33  | 78   | 712212   | 26.950 | ug/L  | 100      |
| 35) Trichloroethene             | 9.09  | 95   | 196138   | 26.799 | ug/L  | 100      |
| 36) Methylcyclohexane           | 9.34  | 83   | 330975   | 26.927 | ug/L  | 99       |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 162855   | 27.594 | ug/L  | 100      |
| 41) Bromodichloromethane        | 9.65  | 83   | 222745   | 27.807 | ug/L  | 98       |
| 42) cis-1,3-Dichloropropene     | 10.07 | 75   | 256733   | 27.819 | ug/L  | 99       |
| 43) 4-Methyl-2-pentanone        | 10.21 | 43   | 156590   | 55.974 | ug/L  | 100      |
| 44) Toluene                     | 10.39 | 91   | 788267   | 27.531 | ug/L  | 98       |
| 45) trans-1,3-Dichloropropene   | 10.61 | 75   | 214230   | 28.023 | ug/L  | 100      |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 127961   | 27.088 | ug/L  | 98       |
| 47) Tetrachloroethene           | 10.87 | 164  | 179386   | 26.645 | ug/L  | 95       |
| 49) 2-Hexanone                  | 10.97 | 43   | 101493   | 56.925 | ug/L  | 99       |
| 50) Dibromochloromethane        | 11.13 | 129  | 162956   | 28.317 | ug/L  | 98       |
| 51) 1,2-Dibromoethane           | 11.24 | 107  | 124606   | 27.668 | ug/L  | 98       |
| 52) Chlorobenzene               | 11.66 | 112  | 520918   | 27.216 | ug/L  | 99       |
| 53) Ethylbenzene                | 11.73 | 91   | 884512   | 27.508 | ug/L  | 99       |
| 54) m,p-Xylene                  | 11.84 | 106  | 344941   | 27.268 | ug/L  | 96       |
| 55) o-xylene                    | 12.17 | 106  | 327708   | 27.965 | ug/L  | 95       |
| 56) Styrene                     | 12.18 | 104  | 558183   | 28.473 | ug/L  | 100      |
| 57) Isopropylbenzene            | 12.47 | 105  | 917130   | 28.295 | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.71 | 83   | 140742   | 27.758 | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 99261    | 27.356 | ug/L  | 100      |
| 62) Bromoform                   | 12.35 | 173  | 91299    | 26.536 | ug/L  | 98       |
| 63) 1,3-Dichlorobenzene         | 13.50 | 146  | 426155   | 26.975 | ug/L  | 98       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 423667   | 26.902 | ug/L  | 97       |
| 65) 1,2-Dichlorobenzene         | 13.87 | 146  | 378170   | 27.135 | ug/L  | 94       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.49 | 75   | 20300    | 26.777 | ug/L  | 97       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 318975   | 27.586 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 15.13 | 180  | 265323   | 29.603 | ug/L  | 98       |
| 69) Naphthalene                 | 15.36 | 128  | 423897   | 29.158 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 15.56 | 180  | 225133   | 28.825 | ug/L  | 98       |

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

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