

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW111520\  
 Data File : VW017226.D  
 Acq On : 15 Nov 2020 09:27  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02528

Quant Time: Nov 16 09:07:42 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM110420S.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Nov 13 09:41:00 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 417370   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 377104   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 188256   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 129121   | 24.56    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 98.24%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 112671   | 27.81    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 111.24% |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 240905   | 25.62    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 102.48% |
| 20) 2-Butanone-d5              | 7.08   | 46    | 60974    | 51.87    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 103.74% |
| 24) Chloroform-d               | 7.65   | 84    | 283649   | 29.11    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 116.44% |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 137755   | 28.44    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 113.76% |
| 29) Benzene-d6                 | 8.27   | 84    | 530012   | 27.60    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 110.40% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 150350   | 28.31    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 113.24% |
| 37) Toluene-d8                 | 10.32  | 98    | 497916   | 27.50    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 110.00% |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 64340    | 26.87    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 107.48% |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 49386    | 53.28    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 106.56% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 129553   | 28.00    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 112.00% |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 195661   | 29.50    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 118.00% |

## Target Compounds

|                                |      |     |        |        | Ovalue    |
|--------------------------------|------|-----|--------|--------|-----------|
| 2) Dichlorodifluoromethane     | 2.01 | 85  | 85734  | 20.474 | ug/L 93   |
| 3) Chloromethane               | 2.21 | 50  | 84326  | 22.188 | ug/L 99   |
| 5) Vinyl chloride              | 2.37 | 62  | 138124 | 24.780 | ug/L 99   |
| 6) Bromomethane                | 2.78 | 94  | 97100  | 25.189 | ug/L 97   |
| 8) Chloroethane                | 2.93 | 64  | 86915  | 25.842 | ug/L 94   |
| 9) Trichlorofluoromethane      | 3.26 | 101 | 123095 | 27.152 | ug/L 100  |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.07 | 101 | 138579 | 25.723 | ug/L 100  |
| 12) 1,1-Dichloroethene         | 4.04 | 96  | 127937 | 24.698 | ug/L 92   |
| 13) Acetone                    | 4.14 | 43  | 33897  | 43.063 | ug/L 99   |
| 14) Carbon disulfide           | 4.39 | 76  | 305348 | 21.660 | ug/L 98   |
| 15) Methyl Acetate             | 4.68 | 43  | 38812  | 19.893 | ug/L 95   |
| 16) Methylene chloride         | 4.92 | 84  | 128312 | 22.803 | ug/L 99   |
| 17) Methyl tert-butyl Ether    | 5.43 | 73  | 161359 | 25.509 | ug/L # 92 |
| 18) trans-1,2-Dichloroethene   | 5.43 | 96  | 129293 | 24.112 | ug/L 96   |
| 19) 1,1-Dichloroethane         | 6.22 | 63  | 216466 | 25.480 | ug/L 98   |
| 21) 2-Butanone                 | 7.18 | 43  | 53243  | 42.125 | ug/L 100  |
| 22) cis-1,2-Dichloroethene     | 7.17 | 96  | 142070 | 25.058 | ug/L 97   |

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 Quant Title : VOC Analysis  
 QLast Update : Fri Nov 13 09:41:00 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 7.51  | 128  | 66060    | 24.200 | ug/L  | 98       |
| 25) Chloroform                  | 7.68  | 83   | 239735   | 25.919 | ug/L  | 100      |
| 27) 1,2-Dichloroethane          | 8.40  | 62   | 142343   | 25.681 | ug/L  | 96       |
| 30) Cyclohexane                 | 7.96  | 56   | 170299   | 23.985 | ug/L  | 98       |
| 31) 1,1,1-Trichloroethane       | 7.87  | 97   | 215513   | 27.907 | ug/L  | 99       |
| 32) Carbon tetrachloride        | 8.07  | 117  | 202699   | 27.202 | ug/L  | 99       |
| 34) Benzene                     | 8.32  | 78   | 496296   | 25.063 | ug/L  | 100      |
| 35) Trichloroethene             | 9.09  | 95   | 139517   | 25.152 | ug/L  | 99       |
| 36) Methylcyclohexane           | 9.34  | 83   | 221728   | 24.842 | ug/L  | 99       |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 115607   | 24.975 | ug/L  | 99       |
| 41) Bromodichloromethane        | 9.65  | 83   | 168790   | 26.365 | ug/L  | 99       |
| 42) cis-1,3-Dichloropropene     | 10.07 | 75   | 188898   | 25.764 | ug/L  | 99       |
| 43) 4-Methyl-2-pentanone        | 10.21 | 43   | 118529   | 41.504 | ug/L  | 99       |
| 44) Toluene                     | 10.39 | 91   | 559109   | 25.652 | ug/L  | 98       |
| 45) trans-1,3-Dichloropropene   | 10.61 | 75   | 163164   | 25.914 | ug/L  | 97       |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 96475    | 24.174 | ug/L  | 99       |
| 47) Tetrachloroethene           | 10.87 | 164  | 126885   | 25.354 | ug/L  | 92       |
| 49) 2-Hexanone                  | 10.97 | 43   | 79343    | 46.084 | ug/L  | 96       |
| 50) Dibromochloromethane        | 11.13 | 129  | 120691   | 24.822 | ug/L  | 95       |
| 51) 1,2-Dibromoethane           | 11.24 | 107  | 92074    | 23.748 | ug/L  | 98       |
| 52) Chlorobenzene               | 11.66 | 112  | 366824   | 24.883 | ug/L  | 95       |
| 53) Ethylbenzene                | 11.73 | 91   | 639045   | 26.249 | ug/L  | 97       |
| 54) m,p-Xylene                  | 11.84 | 106  | 245921   | 25.823 | ug/L  | 100      |
| 55) o-xylene                    | 12.17 | 106  | 233388   | 25.819 | ug/L  | 99       |
| 56) Styrene                     | 12.18 | 104  | 398607   | 26.264 | ug/L  | 98       |
| 57) Isopropylbenzene            | 12.46 | 105  | 661397   | 26.961 | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.72 | 83   | 108479   | 23.529 | ug/L  | 97       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 77164    | 23.285 | ug/L  | 98       |
| 62) Bromoform                   | 12.35 | 173  | 70021    | 24.230 | ug/L  | 98       |
| 63) 1,3-Dichlorobenzene         | 13.50 | 146  | 296189   | 25.292 | ug/L  | 93       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 298528   | 25.373 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 13.87 | 146  | 275456   | 26.083 | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.49 | 75   | 15614    | 22.362 | ug/L  | 96       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 222497   | 25.783 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 15.13 | 180  | 180696   | 26.239 | ug/L  | 99       |
| 69) Naphthalene                 | 15.37 | 128  | 301009   | 23.752 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 15.55 | 180  | 150513   | 23.920 | ug/L  | 96       |

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

