

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW120820\  
 Data File : VW017587.D  
 Acq On : 08 Dec 2020 09:43  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02507

Quant Time: Dec 20 06:17:10 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM112420S.M  
 Quant Title : VOC Analysis  
 QLast Update : Sun Dec 20 03:53:49 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 375206   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 346675   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 180387   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 114153   | 23.13    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 92.52%  |
| 7) Chloroethane-d5             | 2.90   | 69    | 96037    | 23.06    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 92.24%  |
| 10) 1,1-Dichloroethene-d2      | 4.03   | 63    | 256835   | 23.37    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 93.48%  |
| 20) 2-Butanone-d5              | 7.08   | 46    | 58699    | 56.39    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 112.78% |
| 24) Chloroform-d               | 7.65   | 84    | 273211   | 25.63    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 102.52% |
| 26) 1,2-Dichloroethane-d4      | 8.30   | 65    | 140828   | 26.93    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 107.72% |
| 29) Benzene-d6                 | 8.27   | 84    | 502584   | 23.58    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 94.32%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 142722   | 24.19    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 96.76%  |
| 37) Toluene-d8                 | 10.32  | 98    | 456949   | 23.54    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 94.16%  |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 63839    | 24.22    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 96.88%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 40860    | 55.96    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 111.92% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 114899   | 27.07    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 108.28% |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 162185   | 24.29    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 97.16%  |

## Target Compounds

|                                |      |     |        |        | Ovalue    |
|--------------------------------|------|-----|--------|--------|-----------|
| 2) Dichlorodifluoromethane     | 2.01 | 85  | 66494  | 18.650 | ug/L 98   |
| 3) Chloromethane               | 2.22 | 50  | 78797  | 21.467 | ug/L 100  |
| 5) Vinyl chloride              | 2.37 | 62  | 119050 | 26.153 | ug/L 100  |
| 6) Bromomethane                | 2.79 | 94  | 79253  | 24.177 | ug/L 99   |
| 8) Chloroethane                | 2.93 | 64  | 77083  | 25.203 | ug/L 98   |
| 9) Trichlorofluoromethane      | 3.27 | 101 | 117398 | 22.522 | ug/L 98   |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.07 | 101 | 133572 | 25.035 | ug/L # 69 |
| 12) 1,1-Dichloroethene         | 4.04 | 96  | 123449 | 23.728 | ug/L 86   |
| 13) Acetone                    | 4.13 | 43  | 54686  | 54.600 | ug/L 91   |
| 14) Carbon disulfide           | 4.39 | 76  | 341351 | 22.939 | ug/L 99   |
| 15) Methyl Acetate             | 4.68 | 43  | 47111  | 27.022 | ug/L 98   |
| 16) Methylene chloride         | 4.92 | 84  | 129584 | 23.003 | ug/L 97   |
| 17) Methyl tert-butyl Ether    | 5.43 | 73  | 147629 | 26.382 | ug/L 100  |
| 18) trans-1,2-Dichloroethene   | 5.43 | 96  | 123477 | 23.088 | ug/L 93   |
| 19) 1,1-Dichloroethane         | 6.22 | 63  | 224855 | 24.902 | ug/L 99   |
| 21) 2-Butanone                 | 7.17 | 43  | 65830  | 54.924 | ug/L 96   |
| 22) cis-1,2-Dichloroethene     | 7.17 | 96  | 133505 | 23.926 | ug/L 97   |

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 VSTD02507

Quant Time: Dec 20 06:17:10 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM112420S.M  
 Quant Title : VOC Analysis  
 QLast Update : Sun Dec 20 03:53:49 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 7.51  | 128  | 61422    | 24.233 | ug/L  | 95       |
| 25) Chloroform                  | 7.68  | 83   | 240520   | 25.231 | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 8.40  | 62   | 151180   | 26.333 | ug/L  | 100      |
| 30) Cyclohexane                 | 7.96  | 56   | 199627   | 24.141 | ug/L  | 98       |
| 31) 1,1,1-Trichloroethane       | 7.88  | 97   | 206299   | 25.143 | ug/L  | 98       |
| 32) Carbon tetrachloride        | 8.07  | 117  | 201415   | 25.281 | ug/L  | 100      |
| 34) Benzene                     | 8.32  | 78   | 502169   | 24.101 | ug/L  | 100      |
| 35) Trichloroethene             | 9.09  | 95   | 137232   | 23.757 | ug/L  | 98       |
| 36) Methylcyclohexane           | 9.34  | 83   | 224839   | 23.538 | ug/L  | 98       |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 123469   | 25.228 | ug/L  | 99       |
| 41) Bromodichloromethane        | 9.65  | 83   | 168808   | 24.964 | ug/L  | 96       |
| 42) cis-1,3-Dichloropropene     | 10.07 | 75   | 191340   | 25.241 | ug/L  | 99       |
| 43) 4-Methyl-2-pentanone        | 10.21 | 43   | 122404   | 54.325 | ug/L  | 93       |
| 44) Toluene                     | 10.39 | 91   | 548174   | 24.448 | ug/L  | 99       |
| 45) trans-1,3-Dichloropropene   | 10.61 | 75   | 169810   | 26.140 | ug/L  | 97       |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 90871    | 24.780 | ug/L  | 98       |
| 47) Tetrachloroethene           | 10.87 | 164  | 113428   | 23.046 | ug/L  | 98       |
| 49) 2-Hexanone                  | 10.97 | 43   | 89479    | 56.232 | ug/L  | 91       |
| 50) Dibromochloromethane        | 11.13 | 129  | 115229   | 25.155 | ug/L  | 99       |
| 51) 1,2-Dibromoethane           | 11.24 | 107  | 84655    | 24.088 | ug/L  | 91       |
| 52) Chlorobenzene               | 11.66 | 112  | 351657   | 23.951 | ug/L  | 96       |
| 53) Ethylbenzene                | 11.73 | 91   | 622576   | 24.489 | ug/L  | 97       |
| 54) m,p-Xylene                  | 11.84 | 106  | 237474   | 24.483 | ug/L  | 97       |
| 55) o-xylene                    | 12.17 | 106  | 220488   | 24.407 | ug/L  | 99       |
| 56) Styrene                     | 12.18 | 104  | 381025   | 25.071 | ug/L  | 98       |
| 57) Isopropylbenzene            | 12.46 | 105  | 616360   | 24.839 | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.71 | 83   | 103232   | 26.155 | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 75876    | 26.045 | ug/L  | 98       |
| 62) Bromoform                   | 12.35 | 173  | 65664    | 25.678 | ug/L  | 97       |
| 63) 1,3-Dichlorobenzene         | 13.50 | 146  | 273982   | 23.555 | ug/L  | 98       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 276252   | 23.974 | ug/L  | 97       |
| 65) 1,2-Dichlorobenzene         | 13.87 | 146  | 249090   | 24.587 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.49 | 75   | 16598    | 25.446 | ug/L  | 94       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 201243   | 24.152 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 15.13 | 180  | 156470   | 23.229 | ug/L  | 91       |
| 69) Naphthalene                 | 15.37 | 128  | 266916   | 25.663 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 15.56 | 180  | 142104   | 25.291 | ug/L  | 97       |

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

