

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW100820\  
 Data File : VW016824.D  
 Acq On : 07 Oct 2020 09:59  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02521

Quant Time: Oct 08 08:22:30 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Oct 07 03:05:19 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 610181   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 541269   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 276122   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 146341   | 24.31    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 97.24% |
| 7) Chloroethane-d5             | 2.89   | 69    | 119753   | 23.72    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 94.88% |
| 10) 1,1-Dichloroethene-d2      | 4.03   | 63    | 301318   | 23.57    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 94.28% |
| 20) 2-Butanone-d5              | 7.08   | 46    | 56273    | 41.27    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 82.54% |
| 24) Chloroform-d               | 7.65   | 84    | 302400   | 23.49    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 93.96% |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 140762   | 22.64    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 90.56% |
| 29) Benzene-d6                 | 8.27   | 84    | 597516   | 24.31    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 97.24% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 160930   | 24.36    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 97.44% |
| 37) Toluene-d8                 | 10.32  | 98    | 570054   | 24.58    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 98.32% |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 70326    | 24.14    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 96.56% |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 47373    | 46.37    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 92.74% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 120478   | 22.57    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 90.28% |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 207755   | 23.72    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 94.88% |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units  | Ovalue |
|--------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 2.01 | 85   | 174739   | 23.959 | ug/L   | 96     |
| 3) Chloromethane               | 2.22 | 50   | 151069   | 23.498 | ug/L   | 99     |
| 5) Vinyl chloride              | 2.37 | 62   | 207677   | 24.883 | ug/L   | 100    |
| 6) Bromomethane                | 2.78 | 94   | 140575   | 22.910 | ug/L   | 99     |
| 8) Chloroethane                | 2.93 | 64   | 121877   | 23.660 | ug/L   | 97     |
| 9) Trichlorofluoromethane      | 3.26 | 101  | 129524   | 20.086 | ug/L   | 99     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.07 | 101  | 197567   | 24.049 | ug/L   | 99     |
| 12) 1,1-Dichloroethene         | 4.05 | 96   | 188071   | 23.839 | ug/L   | 97     |
| 13) Acetone                    | 4.13 | 43   | 40424    | 39.179 | ug/L   | 99     |
| 14) Carbon disulfide           | 4.39 | 76   | 540659   | 23.900 | ug/L   | 99     |
| 15) Methyl Acetate             | 4.67 | 43   | 50677    | 20.557 | ug/L   | 98     |
| 16) Methylene chloride         | 4.92 | 84   | 171508   | 20.367 | ug/L   | 97     |
| 17) Methyl tert-butyl Ether    | 5.43 | 73   | 192686   | 21.826 | ug/L # | 90     |
| 18) trans-1,2-Dichloroethene   | 5.43 | 96   | 194312   | 23.577 | ug/L   | 96     |
| 19) 1,1-Dichloroethane         | 6.21 | 63   | 298209   | 23.496 | ug/L   | 99     |
| 21) 2-Butanone                 | 7.17 | 43   | 66577    | 38.438 | ug/L   | 100    |
| 22) cis-1,2-Dichloroethene     | 7.17 | 96   | 194404   | 23.117 | ug/L   | 93     |

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 Quant Title : VOC Analysis  
 QLast Update : Wed Oct 07 03:05:19 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 7.51  | 128  | 90258    | 22.855 | ug/L  | 99       |
| 25) Chloroform                  | 7.68  | 83   | 323815   | 23.626 | ug/L  | 98       |
| 27) 1,2-Dichloroethane          | 8.40  | 62   | 182705   | 22.283 | ug/L  | 99       |
| 30) Cyclohexane                 | 7.96  | 56   | 275022   | 24.501 | ug/L  | 99       |
| 31) 1,1,1-Trichloroethane       | 7.87  | 97   | 278782   | 24.220 | ug/L  | 99       |
| 32) Carbon tetrachloride        | 8.07  | 117  | 280710   | 24.991 | ug/L  | 100      |
| 34) Benzene                     | 8.32  | 78   | 702048   | 24.153 | ug/L  | 100      |
| 35) Trichloroethene             | 9.09  | 95   | 198130   | 24.098 | ug/L  | 100      |
| 36) Methylcyclohexane           | 9.34  | 83   | 332913   | 24.082 | ug/L  | 99       |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 154258   | 23.469 | ug/L  | 100      |
| 41) Bromodichloromethane        | 9.65  | 83   | 221550   | 23.994 | ug/L  | 97       |
| 42) cis-1,3-Dichloropropene     | 10.07 | 75   | 249707   | 23.829 | ug/L  | 98       |
| 43) 4-Methyl-2-pentanone        | 10.21 | 43   | 147704   | 44.637 | ug/L  | 98       |
| 44) Toluene                     | 10.39 | 91   | 779411   | 24.171 | ug/L  | 97       |
| 45) trans-1,3-Dichloropropene   | 10.61 | 75   | 209880   | 23.801 | ug/L  | 98       |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 123791   | 23.169 | ug/L  | 99       |
| 47) Tetrachloroethene           | 10.86 | 164  | 179933   | 23.605 | ug/L  | 97       |
| 49) 2-Hexanone                  | 10.97 | 43   | 98632    | 45.159 | ug/L  | 99       |
| 50) Dibromochloromethane        | 11.13 | 129  | 158422   | 23.850 | ug/L  | 99       |
| 51) 1,2-Dibromoethane           | 11.24 | 107  | 120721   | 22.992 | ug/L  | 95       |
| 52) Chlorobenzene               | 11.66 | 112  | 509675   | 23.552 | ug/L  | 99       |
| 53) Ethylbenzene                | 11.73 | 91   | 884529   | 24.453 | ug/L  | 99       |
| 54) m,p-Xylene                  | 11.84 | 106  | 348005   | 24.737 | ug/L  | 99       |
| 55) o-xylene                    | 12.16 | 106  | 329064   | 24.481 | ug/L  | 95       |
| 56) Styrene                     | 12.18 | 104  | 544521   | 24.549 | ug/L  | 99       |
| 57) Isopropylbenzene            | 12.46 | 105  | 908969   | 24.695 | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.72 | 83   | 134143   | 22.717 | ug/L  | 97       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 94679    | 22.133 | ug/L  | 99       |
| 62) Bromoform                   | 12.35 | 173  | 89549    | 23.054 | ug/L  | 97       |
| 63) 1,3-Dichlorobenzene         | 13.50 | 146  | 419501   | 23.872 | ug/L  | 97       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 415537   | 23.644 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 13.87 | 146  | 369303   | 23.471 | ug/L  | 97       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.49 | 75   | 20067    | 21.026 | ug/L  | 98       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 319751   | 24.479 | ug/L  | 95       |
| 68) 1,2,4-trichlorobenzene      | 15.13 | 180  | 253550   | 23.632 | ug/L  | 95       |
| 69) Naphthalene                 | 15.37 | 128  | 411561   | 23.165 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 15.56 | 180  | 218618   | 23.713 | ug/L  | 98       |

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

