

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW111720\  
 Data File : VW017296.D  
 Acq On : 17 Nov 2020 19:05  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Nov 18 04:49:12 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM110420S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Nov 18 02:13:37 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 398883   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 365372   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 194089   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 99862    | 19.88    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 79.52%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 93853    | 24.24    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 96.96%  |
| 10) 1,1-Dichloroethene-d2      | 4.03   | 63    | 204057   | 22.71    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 90.84%  |
| 20) 2-Butanone-d5              | 7.08   | 46    | 55291    | 49.21    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 98.42%  |
| 24) Chloroform-d               | 7.65   | 84    | 258724   | 27.78    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 111.12% |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 126316   | 27.29    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 109.16% |
| 29) Benzene-d6                 | 8.27   | 84    | 467090   | 25.10    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 100.40% |
| 33) 1,2-Dichloropropane-d6     | 9.28   | 67    | 136581   | 26.54    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 106.16% |
| 37) Toluene-d8                 | 10.32  | 98    | 444720   | 25.35    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 101.40% |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 56954    | 24.55    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 98.20%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 45215    | 50.34    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 100.68% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 117280   | 26.16    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 104.64% |
| 61) 1,2-Dichlorobenzene-d4     | 13.86  | 152   | 176048   | 25.75    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 103.00% |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 2.01 | 85  | 91479  | 22.858 | ug/L 98  |
| 3) Chloromethane               | 2.21 | 50  | 82655  | 22.756 | ug/L 100 |
| 5) Vinyl chloride              | 2.37 | 62  | 134865 | 25.316 | ug/L 98  |
| 6) Bromomethane                | 2.79 | 94  | 99065  | 26.890 | ug/L 97  |
| 8) Chloroethane                | 2.93 | 64  | 89213  | 27.755 | ug/L 98  |
| 9) Trichlorofluoromethane      | 3.27 | 101 | 118857 | 27.433 | ug/L 99  |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.07 | 101 | 136290 | 26.471 | ug/L 99  |
| 12) 1,1-Dichloroethene         | 4.04 | 96  | 126177 | 25.487 | ug/L 94  |
| 13) Acetone                    | 4.12 | 43  | 36135  | 48.033 | ug/L 94  |
| 14) Carbon disulfide           | 4.39 | 76  | 294311 | 21.845 | ug/L 100 |
| 15) Methyl Acetate             | 4.68 | 43  | 40539m | 21.741 | ug/L     |
| 16) Methylene chloride         | 4.92 | 84  | 135406 | 25.179 | ug/L 98  |
| 17) Methyl tert-butyl Ether    | 5.43 | 73  | 166743 | 27.582 | ug/L 98  |
| 18) trans-1,2-Dichloroethene   | 5.43 | 96  | 132896 | 25.932 | ug/L 95  |
| 19) 1,1-Dichloroethane         | 6.22 | 63  | 224212 | 27.615 | ug/L 98  |
| 21) 2-Butanone                 | 7.17 | 43  | 52248  | 43.254 | ug/L 98  |
| 22) cis-1,2-Dichloroethene     | 7.18 | 96  | 145789 | 26.906 | ug/L 97  |

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 Quant Title : VOC Analysis  
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 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 7.52  | 128  | 69632    | 26.691 | ug/L  | 95       |
| 25) Chloroform                  | 7.68  | 83   | 256150   | 28.978 | ug/L  | 98       |
| 27) 1,2-Dichloroethane          | 8.40  | 62   | 149579   | 28.237 | ug/L  | 97       |
| 30) Cyclohexane                 | 7.96  | 56   | 165909   | 24.117 | ug/L  | 97       |
| 31) 1,1,1-Trichloroethane       | 7.88  | 97   | 213151   | 28.487 | ug/L  | 98       |
| 32) Carbon tetrachloride        | 8.07  | 117  | 202535   | 28.052 | ug/L  | 99       |
| 34) Benzene                     | 8.32  | 78   | 513134   | 26.746 | ug/L  | 100      |
| 35) Trichloroethene             | 9.10  | 95   | 142892   | 26.588 | ug/L  | 99       |
| 36) Methylcyclohexane           | 9.34  | 83   | 220589   | 25.507 | ug/L  | 98       |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 121020   | 26.984 | ug/L  | 99       |
| 41) Bromodichloromethane        | 9.65  | 83   | 178496   | 28.777 | ug/L  | 99       |
| 42) cis-1,3-Dichloropropene     | 10.07 | 75   | 193368   | 27.221 | ug/L  | 100      |
| 43) 4-Methyl-2-pentanone        | 10.21 | 43   | 119873   | 43.323 | ug/L  | 98       |
| 44) Toluene                     | 10.39 | 91   | 581798   | 27.550 | ug/L  | 100      |
| 45) trans-1,3-Dichloropropene   | 10.61 | 75   | 168577   | 27.633 | ug/L  | 99       |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 99988    | 25.858 | ug/L  | 98       |
| 47) Tetrachloroethene           | 10.87 | 164  | 128085   | 26.415 | ug/L  | 98       |
| 49) 2-Hexanone                  | 10.97 | 43   | 77713    | 46.586 | ug/L  | 100      |
| 50) Dibromochloromethane        | 11.13 | 129  | 127195   | 27.000 | ug/L  | 97       |
| 51) 1,2-Dibromoethane           | 11.24 | 107  | 95061    | 25.305 | ug/L  | 99       |
| 52) Chlorobenzene               | 11.66 | 112  | 394678   | 27.632 | ug/L  | 98       |
| 53) Ethylbenzene                | 11.73 | 91   | 664915   | 28.188 | ug/L  | 98       |
| 54) m,p-Xylene                  | 11.84 | 106  | 257347   | 27.890 | ug/L  | 97       |
| 55) o-xylene                    | 12.17 | 106  | 252921   | 28.879 | ug/L  | 95       |
| 56) Styrene                     | 12.18 | 104  | 432489   | 29.412 | ug/L  | 95       |
| 57) Isopropylbenzene            | 12.46 | 105  | 694560   | 29.222 | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.71 | 83   | 111217   | 24.898 | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 77907    | 24.264 | ug/L  | 100      |
| 62) Bromoform                   | 12.35 | 173  | 72306    | 24.269 | ug/L  | 97       |
| 63) 1,3-Dichlorobenzene         | 13.50 | 146  | 330295   | 27.357 | ug/L  | 96       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 336807   | 27.766 | ug/L  | 96       |
| 65) 1,2-Dichlorobenzene         | 13.87 | 146  | 300695   | 27.617 | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.49 | 75   | 16744    | 23.260 | ug/L  | 94       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 250910   | 28.202 | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene      | 15.13 | 180  | 206685   | 29.111 | ug/L  | 99       |
| 69) Naphthalene                 | 15.37 | 128  | 345260   | 26.425 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 15.56 | 180  | 183834   | 28.338 | ug/L  | 99       |

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

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