

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW090620\  
 Data File : VW016487.D  
 Acq On : 06 Sep 2020 16:13  
 Operator : SY/VA  
 Sample : VSTDCCC025EC  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02512

Quant Time: Sep 07 04:53:08 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM090320S.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Sep 07 04:50:36 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 583020   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 513611   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 247525   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 2.37   | 65    | 127893   | 20.68    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 82.72% |
| 7) Chloroethane-d5             | 2.90   | 69    | 123301   | 22.20    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 88.80% |
| 10) 1,1-Dichloroethene-d2      | 4.03   | 63    | 302176   | 21.25    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 85.00% |
| 20) 2-Butanone-d5              | 7.08   | 46    | 75349    | 34.11    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 68.22% |
| 24) Chloroform-d               | 7.65   | 84    | 308762   | 22.61    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 90.44% |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 154699   | 20.72    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 82.88% |
| 29) Benzene-d6                 | 8.28   | 84    | 585686   | 22.43    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 89.72% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 167190   | 21.80    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 87.20% |
| 37) Toluene-d8                 | 10.33  | 98    | 572404   | 23.06    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 92.24% |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 77479    | 20.02    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 80.08% |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 62756    | 40.03    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 80.06% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 140912   | 21.72    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 86.88% |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 197641   | 23.11    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 92.44% |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 2.02 | 85  | 149353 | 22.897 | ug/L 98  |
| 3) Chloromethane               | 2.22 | 50  | 132437 | 23.126 | ug/L 100 |
| 5) Vinyl chloride              | 2.37 | 62  | 189849 | 26.027 | ug/L 100 |
| 6) Bromomethane                | 2.79 | 94  | 147248 | 27.009 | ug/L 99  |
| 8) Chloroethane                | 2.93 | 64  | 122896 | 27.388 | ug/L 99  |
| 9) Trichlorofluoromethane      | 3.27 | 101 | 159595 | 26.717 | ug/L 99  |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.08 | 101 | 183738 | 26.005 | ug/L 96  |
| 12) 1,1-Dichloroethene         | 4.05 | 96  | 183896 | 25.597 | ug/L 97  |
| 13) Acetone                    | 4.12 | 43  | 55601  | 39.215 | ug/L 98  |
| 14) Carbon disulfide           | 4.39 | 76  | 545810 | 24.860 | ug/L 100 |
| 15) Methyl Acetate             | 4.68 | 43  | 67608  | 19.661 | ug/L 95  |
| 16) Methylene chloride         | 4.92 | 84  | 179010 | 19.674 | ug/L 92  |
| 17) Methyl tert-butyl Ether    | 5.43 | 73  | 269101 | 24.968 | ug/L 98  |
| 18) trans-1,2-Dichloroethene   | 5.43 | 96  | 194031 | 25.426 | ug/L 93  |
| 19) 1,1-Dichloroethane         | 6.23 | 63  | 317863 | 24.473 | ug/L 97  |
| 21) 2-Butanone                 | 7.17 | 43  | 87473  | 36.758 | ug/L 93  |
| 22) cis-1,2-Dichloroethene     | 7.18 | 96  | 202501 | 25.472 | ug/L 95  |

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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  | 92292    | 25.045 | ug/L  | 94       |
| 25) Chloroform                  | 7.68  | 83   | 336244   | 25.012 | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 8.40  | 62   | 210818   | 23.551 | ug/L  | 100      |
| 30) Cyclohexane                 | 7.96  | 56   | 300680   | 24.508 | ug/L  | 96       |
| 31) 1,1,1-Trichloroethane       | 7.88  | 97   | 305921   | 27.507 | ug/L  | 97       |
| 32) Carbon tetrachloride        | 8.07  | 117  | 286152   | 26.900 | ug/L  | 100      |
| 34) Benzene                     | 8.33  | 78   | 730909   | 26.028 | ug/L  | 100      |
| 35) Trichloroethene             | 9.10  | 95   | 203992   | 26.216 | ug/L  | 98       |
| 36) Methylcyclohexane           | 9.34  | 83   | 353762   | 25.985 | ug/L  | 95       |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 172638   | 24.864 | ug/L  | 99       |
| 41) Bromodichloromethane        | 9.65  | 83   | 246151   | 25.358 | ug/L  | 98       |
| 42) cis-1,3-Dichloropropene     | 10.08 | 75   | 282327   | 23.961 | ug/L  | 98       |
| 43) 4-Methyl-2-pentanone        | 10.21 | 43   | 208138   | 42.334 | ug/L  | 97       |
| 44) Toluene                     | 10.39 | 91   | 831185   | 26.451 | ug/L  | 97       |
| 45) trans-1,3-Dichloropropene   | 10.61 | 75   | 249828   | 23.721 | ug/L  | 100      |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 135110   | 24.552 | ug/L  | 97       |
| 47) Tetrachloroethene           | 10.87 | 164  | 161313   | 25.856 | ug/L  | 98       |
| 49) 2-Hexanone                  | 10.97 | 43   | 140278   | 40.969 | ug/L  | 98       |
| 50) Dibromochloromethane        | 11.13 | 129  | 176922   | 25.426 | ug/L  | 93       |
| 51) 1,2-Dibromoethane           | 11.24 | 107  | 132661   | 24.125 | ug/L  | 95       |
| 52) Chlorobenzene               | 11.66 | 112  | 528626   | 26.519 | ug/L  | 97       |
| 53) Ethylbenzene                | 11.73 | 91   | 939625   | 26.547 | ug/L  | 98       |
| 54) m,p-Xylene                  | 11.84 | 106  | 361797   | 26.745 | ug/L  | 96       |
| 55) o-xylene                    | 12.17 | 106  | 343807   | 26.681 | ug/L  | 92       |
| 56) Styrene                     | 12.18 | 104  | 580509   | 26.220 | ug/L  | 98       |
| 57) Isopropylbenzene            | 12.47 | 105  | 959938   | 27.195 | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.72 | 83   | 157591   | 24.023 | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 112264   | 22.897 | ug/L  | 99       |
| 62) Bromoform                   | 12.35 | 173  | 97638    | 23.507 | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene         | 13.50 | 146  | 409619   | 26.285 | ug/L  | 95       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 390804   | 25.292 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 13.87 | 146  | 371200   | 26.798 | ug/L  | 96       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.49 | 75   | 27355    | 21.208 | ug/L  | 99       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 265652   | 24.733 | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene      | 15.13 | 180  | 214712   | 23.111 | ug/L  | 98       |
| 69) Naphthalene                 | 15.37 | 128  | 466109   | 23.772 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 15.55 | 180  | 188903   | 23.682 | ug/L  | 99       |

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

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