

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW080719\  
 Data File : VW011734.D  
 Acq On : 06 Aug 2019 09:33  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Aug 06 16:33:53 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM073019S.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Aug 06 04:37:57 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 368583   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 324920   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 159352   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 113096   | 21.79    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 87.16% |
| 7) Chloroethane-d5             | 2.89   | 69    | 86809    | 23.22    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 92.88% |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 283927   | 23.86    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 95.44% |
| 20) 2-Butanone-d5              | 7.08   | 46    | 96521    | 41.30    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 82.60% |
| 24) Chloroform-d               | 7.65   | 84    | 241177   | 23.83    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 95.32% |
| 26) 1,2-Dichloroethane-d4      | 8.30   | 65    | 139880   | 23.35    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 93.40% |
| 29) Benzene-d6                 | 8.27   | 84    | 478257   | 23.41    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 93.64% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 156755   | 23.77    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 95.08% |
| 37) Toluene-d8                 | 10.32  | 98    | 424790   | 23.42    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 93.68% |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 66241    | 22.91    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 91.64% |
| 39) 2-Hexanone-d5              | 10.92  | 63    | 64056    | 41.58    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 83.16% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 121663   | 22.21    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 88.84% |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 141467   | 23.04    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 92.16% |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 2.01 | 85  | 127335 | 30.826 | ug/L 99  |
| 3) Chloromethane               | 2.21 | 50  | 134808 | 25.089 | ug/L 96  |
| 5) Vinyl chloride              | 2.36 | 62  | 182444 | 26.613 | ug/L 98  |
| 6) Bromomethane                | 2.78 | 94  | 84655  | 26.194 | ug/L 99  |
| 8) Chloroethane                | 2.92 | 64  | 98385  | 27.441 | ug/L 97  |
| 9) Trichlorofluoromethane      | 3.26 | 101 | 99141  | 28.389 | ug/L 98  |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06 | 101 | 145878 | 27.554 | ug/L 97  |
| 12) 1,1-Dichloroethene         | 4.04 | 96  | 143174 | 27.046 | ug/L 94  |
| 13) Acetone                    | 4.13 | 43  | 109440 | 43.725 | ug/L 97  |
| 14) Carbon disulfide           | 4.38 | 76  | 446839 | 25.916 | ug/L 99  |
| 15) Methyl Acetate             | 4.67 | 43  | 93954  | 22.959 | ug/L 99  |
| 16) Methylene chloride         | 4.92 | 84  | 153783 | 26.736 | ug/L 97  |
| 17) Methyl tert-butyl Ether    | 5.42 | 73  | 234937 | 26.650 | ug/L 100 |
| 18) trans-1,2-Dichloroethene   | 5.42 | 96  | 146049 | 26.703 | ug/L 99  |
| 19) 1,1-Dichloroethane         | 6.21 | 63  | 299894 | 27.448 | ug/L 100 |
| 21) 2-Butanone                 | 7.17 | 43  | 142235 | 45.326 | ug/L 99  |
| 22) cis-1,2-Dichloroethene     | 7.16 | 96  | 156865 | 27.414 | ug/L 99  |

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 Quant Title : VOC Analysis  
 QLast Update : Tue Aug 06 04:37:57 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 7.51  | 128  | 64808    | 26.619 | ug/L  | 96       |
| 25) Chloroform                  | 7.68  | 83   | 275389   | 27.346 | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 8.40  | 62   | 199244   | 26.726 | ug/L  | 96       |
| 30) Cyclohexane                 | 7.95  | 56   | 306614   | 27.147 | ug/L  | 99       |
| 31) 1,1,1-Trichloroethane       | 7.87  | 97   | 218872   | 27.645 | ug/L  | 99       |
| 32) Carbon tetrachloride        | 8.07  | 117  | 203435   | 27.314 | ug/L  | 99       |
| 34) Benzene                     | 8.32  | 78   | 621265   | 27.285 | ug/L  | 100      |
| 35) Trichloroethene             | 9.09  | 95   | 157000   | 27.161 | ug/L  | 99       |
| 36) Methylcyclohexane           | 9.34  | 83   | 289282   | 27.586 | ug/L  | 99       |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 167006   | 27.478 | ug/L  | 100      |
| 41) Bromodichloromethane        | 9.64  | 83   | 197127   | 27.485 | ug/L  | 98       |
| 42) cis-1,3-Dichloropropene     | 10.07 | 75   | 250551   | 27.560 | ug/L  | 99       |
| 43) 4-Methyl-2-pentanone        | 10.21 | 43   | 267962   | 48.660 | ug/L  | 99       |
| 44) Toluene                     | 10.38 | 91   | 644859   | 27.876 | ug/L  | 99       |
| 45) trans-1,3-Dichloropropene   | 10.60 | 75   | 207649   | 27.453 | ug/L  | 100      |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 108972   | 26.298 | ug/L  | 98       |
| 47) Tetrachloroethene           | 10.86 | 164  | 120008   | 27.180 | ug/L  | 95       |
| 49) 2-Hexanone                  | 10.97 | 43   | 203871   | 48.053 | ug/L  | 99       |
| 50) Dibromochloromethane        | 11.13 | 129  | 123695   | 27.082 | ug/L  | 96       |
| 51) 1,2-Dibromoethane           | 11.23 | 107  | 104354   | 25.880 | ug/L  | 99       |
| 52) Chlorobenzene               | 11.66 | 112  | 381369   | 27.325 | ug/L  | 99       |
| 53) Ethylbenzene                | 11.73 | 91   | 722808   | 28.018 | ug/L  | 100      |
| 54) m,p-Xylene                  | 11.84 | 106  | 264973   | 28.246 | ug/L  | 97       |
| 55) o-xylene                    | 12.16 | 106  | 248035   | 28.095 | ug/L  | 97       |
| 56) Styrene                     | 12.18 | 104  | 429519   | 28.617 | ug/L  | 100      |
| 57) Isopropylbenzene            | 12.46 | 105  | 689850   | 28.403 | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.71 | 83   | 138382   | 25.130 | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 104155   | 24.523 | ug/L  | 98       |
| 62) Bromoform                   | 12.35 | 173  | 70641    | 24.778 | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene         | 13.50 | 146  | 295182   | 27.293 | ug/L  | 99       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 294774   | 27.140 | ug/L  | 100      |
| 65) 1,2-Dichlorobenzene         | 13.87 | 146  | 266415   | 27.203 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.49 | 75   | 23036    | 22.726 | ug/L  | 98       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 224070   | 28.148 | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene      | 15.13 | 180  | 184972   | 28.852 | ug/L  | 99       |
| 69) Naphthalene                 | 15.37 | 128  | 350179   | 27.124 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 15.56 | 180  | 166716   | 28.078 | ug/L  | 99       |

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

