

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV091820\  
 Data File : VV018358.D  
 Acq On : 19 Sep 2020 05:03  
 Operator : SY/MD  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 52 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05080

Quant Time: Sep 19 05:22:55 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM090920WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Sep 19 05:11:16 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 288016   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 283610   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 153690   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 103328   | 44.02    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 88.04% |
| 7) Chloroethane-d5             | 1.58    | 69    | 80817    | 42.08    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 84.16% |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 192409   | 44.69    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 89.38% |
| 21) 2-Butanone-d5              | 3.90    | 46    | 124488   | 86.65    | ug/L | -0.01  |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 86.65% |
| 24) Chloroform-d               | 4.38    | 84    | 182478   | 44.81    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 89.62% |
| 26) 1,2-Dichloroethane-d4      | 5.06    | 65    | 116126   | 44.48    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 88.96% |
| 32) Benzene-d6                 | 5.08    | 84    | 358678   | 44.18    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 88.36% |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 112246   | 43.51    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 87.02% |
| 41) Toluene-d8                 | 7.34    | 98    | 334044   | 45.15    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 90.30% |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 53867    | 41.09    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 82.18% |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 91393    | 93.53    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 93.53% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 147383   | 45.52    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 91.04% |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 134042   | 42.47    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 84.94% |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 96164  | 45.788 | ug/L 100 |
| 3) Chloromethane               | 1.25 | 50  | 110211 | 48.058 | ug/L 100 |
| 5) Vinyl chloride              | 1.32 | 62  | 110876 | 47.148 | ug/L 100 |
| 6) Bromomethane                | 1.53 | 94  | 68332  | 47.540 | ug/L 99  |
| 8) Chloroethane                | 1.59 | 64  | 70236  | 47.678 | ug/L 98  |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 155775 | 48.144 | ug/L 100 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 91301  | 46.977 | ug/L 99  |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 90769  | 47.998 | ug/L 98  |
| 13) Acetone                    | 2.18 | 43  | 87864  | 76.375 | ug/L 98  |
| 14) Carbon disulfide           | 2.31 | 76  | 263280 | 45.498 | ug/L 100 |
| 15) Methyl Acetate             | 2.44 | 43  | 102937 | 49.789 | ug/L 99  |
| 16) Methylene chloride         | 2.52 | 84  | 103113 | 48.618 | ug/L 99  |
| 17) trans-1,2-Dichloroethene   | 2.78 | 96  | 92679  | 47.554 | ug/L 100 |
| 18) Methyl tert-butyl Ether    | 2.78 | 73  | 292275 | 48.480 | ug/L 100 |
| 19) 1,1-Dichloroethane         | 3.21 | 63  | 179753 | 48.782 | ug/L 99  |
| 20) cis-1,2-Dichloroethene     | 3.94 | 96  | 101764 | 48.846 | ug/L 97  |
| 22) 2-Butanone                 | 3.99 | 43  | 132467 | 97.240 | ug/L 96  |

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 ALS Vial : 52 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05080

Quant Time: Sep 19 05:22:55 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM090920WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Sep 19 05:11:16 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|---------------------------------|-------|------|----------|---------|-------|----------|
| 23) Bromochloromethane          | 4.27  | 128  | 54076    | 49.610  | ug/L  | 97       |
| 25) Chloroform                  | 4.40  | 83   | 183619   | 49.022  | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 5.15  | 62   | 144094   | 49.693  | ug/L  | 100      |
| 29) Cyclohexane                 | 4.70  | 56   | 155926   | 47.612  | ug/L  | 100      |
| 30) 1,1,1-Trichloroethane       | 4.63  | 97   | 159328   | 48.407  | ug/L  | 99       |
| 31) Carbon tetrachloride        | 4.86  | 117  | 138726   | 47.933  | ug/L  | 98       |
| 33) Benzene                     | 5.13  | 78   | 399038   | 49.211  | ug/L  | 100      |
| 34) Trichloroethene             | 5.94  | 95   | 103688   | 46.941  | ug/L  | 99       |
| 35) Methylcyclohexane           | 6.15  | 83   | 151691   | 45.609  | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.20  | 63   | 104682   | 48.718  | ug/L  | 100      |
| 38) Bromodichloromethane        | 6.53  | 83   | 135407   | 48.425  | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene     | 7.05  | 75   | 150309   | 45.401  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone        | 7.24  | 43   | 269811   | 103.505 | ug/L  | 99       |
| 42) Toluene                     | 7.41  | 91   | 425663   | 49.604  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene   | 7.67  | 75   | 148053   | 45.930  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane       | 7.86  | 97   | 99448    | 49.934  | ug/L  | 99       |
| 46) Tetrachloroethene           | 8.00  | 164  | 80830    | 46.670  | ug/L  | 98       |
| 48) 2-Hexanone                  | 8.16  | 43   | 206512   | 100.487 | ug/L  | 99       |
| 49) Dibromochloromethane        | 8.27  | 129  | 108079   | 48.346  | ug/L  | 99       |
| 50) 1,2-Dibromoethane           | 8.37  | 107  | 103608   | 49.430  | ug/L  | 99       |
| 51) Chlorobenzene               | 8.90  | 112  | 271685   | 48.751  | ug/L  | 99       |
| 52) Ethylbenzene                | 9.03  | 91   | 462446   | 49.361  | ug/L  | 100      |
| 53) m,p-Xylene                  | 9.16  | 106  | 174895   | 50.015  | ug/L  | 96       |
| 54) o-xylene                    | 9.57  | 106  | 169009   | 50.168  | ug/L  | 99       |
| 55) Styrene                     | 9.58  | 104  | 302631   | 51.683  | ug/L  | 100      |
| 56) Isopropylbenzene            | 9.95  | 105  | 452455   | 49.833  | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.26 | 83   | 151657   | 51.478  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 10.30 | 75   | 127003   | 50.253  | ug/L  | 100      |
| 61) Bromoform                   | 9.75  | 173  | 80384    | 48.686  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene         | 11.20 | 146  | 219668   | 48.066  | ug/L  | 100      |
| 63) 1,4-Dichlorobenzene         | 11.29 | 146  | 224728   | 47.841  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 11.67 | 146  | 219764   | 47.575  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.45 | 75   | 33602    | 51.548  | ug/L  | 98       |
| 67) 1,3,5-Trichlorobenzene      | 12.67 | 180  | 163197   | 45.297  | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene      | 13.28 | 180  | 153062   | 47.708  | ug/L  | 98       |
| 69) Naphthalene                 | 13.52 | 128  | 455818   | 56.148  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 13.77 | 180  | 160447   | 50.775  | ug/L  | 100      |

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

