

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV091620\  
 Data File : VV018228.D  
 Acq On : 16 Sep 2020 11:15  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05072

Quant Time: Sep 17 04:36:13 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM090920WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Sep 16 05:45:07 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 301288   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 293679   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 164935   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 86451    | 35.21    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 70.42%  |
| 7) Chloroethane-d5             | 1.58    | 69    | 81328    | 40.48    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 80.96%  |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 188794   | 41.92    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 83.84%  |
| 21) 2-Butanone-d5              | 3.90    | 46    | 154064   | 102.51   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 102.51% |
| 24) Chloroform-d               | 4.37    | 84    | 201647   | 47.33    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 94.66%  |
| 26) 1,2-Dichloroethane-d4      | 5.05    | 65    | 126541   | 46.34    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.68%  |
| 32) Benzene-d6                 | 5.07    | 84    | 378253   | 44.99    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 89.98%  |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 124158   | 46.48    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 92.96%  |
| 41) Toluene-d8                 | 7.33    | 98    | 342928   | 44.76    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 89.52%  |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 63895    | 47.07    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 94.14%  |
| 47) 2-Hexanone-d5              | 8.10    | 63    | 118873   | 117.48   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 117.48% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.23   | 84    | 179510   | 53.54    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 107.08% |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 154188   | 45.52    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 91.04%  |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc    | Units | Ovalue |
|--------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85   | 106558   | 48.503  | ug/L  | 99     |
| 3) Chloromethane               | 1.25 | 50   | 116530   | 48.575  | ug/L  | 100    |
| 5) Vinyl chloride              | 1.32 | 62   | 119386   | 48.530  | ug/L  | 100    |
| 6) Bromomethane                | 1.53 | 94   | 72816    | 48.428  | ug/L  | 100    |
| 8) Chloroethane                | 1.59 | 64   | 73650    | 47.793  | ug/L  | 99     |
| 9) Trichlorofluoromethane      | 1.76 | 101  | 169352   | 50.035  | ug/L  | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101  | 102766   | 50.547  | ug/L  | 99     |
| 12) 1,1-Dichloroethene         | 2.13 | 96   | 97421    | 49.246  | ug/L  | 94     |
| 13) Acetone                    | 2.18 | 43   | 109824   | 91.258  | ug/L  | 97     |
| 14) Carbon disulfide           | 2.31 | 76   | 292130   | 48.260  | ug/L  | 100    |
| 15) Methyl Acetate             | 2.44 | 43   | 103766   | 47.979  | ug/L  | 99     |
| 16) Methylene chloride         | 2.52 | 84   | 107325   | 48.375  | ug/L  | 98     |
| 17) trans-1,2-Dichloroethene   | 2.78 | 96   | 99434    | 48.772  | ug/L  | 98     |
| 18) Methyl tert-butyl Ether    | 2.78 | 73   | 305507   | 48.443  | ug/L  | 100    |
| 19) 1,1-Dichloroethane         | 3.21 | 63   | 184637   | 47.900  | ug/L  | 99     |
| 20) cis-1,2-Dichloroethene     | 3.94 | 96   | 106950   | 49.074  | ug/L  | 97     |
| 22) 2-Butanone                 | 3.98 | 43   | 144234   | 101.213 | ug/L  | 99     |

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 ALS Vial : 2 Sample Multiplier: 1

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 MSVOA\_V  
 ClientSampleId :  
 VSTD05072

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 Quant Title : VOC Analysis  
 QLast Update : Wed Sep 16 05:45:07 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|---------------------------------|-------|------|----------|---------|-------|----------|
| 23) Bromochloromethane          | 4.27  | 128  | 56089    | 49.190  | uq/L  | 98       |
| 25) Chloroform                  | 4.40  | 83   | 187002   | 47.726  | uq/L  | 99       |
| 27) 1,2-Dichloroethane          | 5.15  | 62   | 146909   | 48.432  | uq/L  | 99       |
| 29) Cyclohexane                 | 4.70  | 56   | 173148   | 51.058  | uq/L  | 100      |
| 30) 1,1,1-Trichloroethane       | 4.63  | 97   | 167683   | 49.199  | uq/L  | 99       |
| 31) Carbon tetrachloride        | 4.85  | 117  | 147348   | 49.167  | uq/L  | 98       |
| 33) Benzene                     | 5.12  | 78   | 414097   | 49.317  | uq/L  | 100      |
| 34) Trichloroethene             | 5.94  | 95   | 107860   | 47.155  | uq/L  | 99       |
| 35) Methylcyclohexane           | 6.15  | 83   | 177877   | 51.649  | uq/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.20  | 63   | 109829   | 49.361  | uq/L  | 100      |
| 38) Bromodichloromethane        | 6.53  | 83   | 141623   | 48.912  | uq/L  | 99       |
| 39) cis-1,3-Dichloropropene     | 7.05  | 75   | 171344   | 49.980  | uq/L  | 99       |
| 40) 4-Methyl-2-pentanone        | 7.24  | 43   | 274275   | 101.610 | uq/L  | 100      |
| 42) Toluene                     | 7.41  | 91   | 445817   | 50.171  | uq/L  | 100      |
| 44) trans-1,3-Dichloropropene   | 7.67  | 75   | 167980   | 50.325  | uq/L  | 99       |
| 45) 1,1,2-Trichloroethane       | 7.86  | 97   | 101357   | 49.147  | uq/L  | 98       |
| 46) Tetrachloroethene           | 7.99  | 164  | 89799    | 50.071  | uq/L  | 99       |
| 48) 2-Hexanone                  | 8.16  | 43   | 224938   | 105.700 | uq/L  | 98       |
| 49) Dibromochloromethane        | 8.27  | 129  | 115439   | 49.868  | uq/L  | 100      |
| 50) 1,2-Dibromoethane           | 8.37  | 107  | 107909   | 49.717  | uq/L  | 100      |
| 51) Chlorobenzene               | 8.90  | 112  | 286124   | 49.581  | uq/L  | 99       |
| 52) Ethylbenzene                | 9.03  | 91   | 495502   | 51.076  | uq/L  | 99       |
| 53) m,p-Xylene                  | 9.16  | 106  | 188453   | 52.044  | uq/L  | 97       |
| 54) o-xylene                    | 9.56  | 106  | 179963   | 51.588  | uq/L  | 100      |
| 55) Styrene                     | 9.58  | 104  | 321894   | 53.088  | uq/L  | 99       |
| 56) Isopropylbenzene            | 9.95  | 105  | 487562   | 51.859  | uq/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.26 | 83   | 163635   | 53.640  | uq/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 10.29 | 75   | 130263   | 49.776  | uq/L  | 100      |
| 61) Bromoform                   | 9.75  | 173  | 86742    | 48.955  | uq/L  | 100      |
| 62) 1,3-Dichlorobenzene         | 11.20 | 146  | 242901   | 49.526  | uq/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.29 | 146  | 248477   | 49.290  | uq/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 11.67 | 146  | 239414   | 48.295  | uq/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.45 | 75   | 36223    | 51.781  | uq/L  | 99       |
| 67) 1,3,5-Trichlorobenzene      | 12.67 | 180  | 193268   | 49.986  | uq/L  | 100      |
| 68) 1,2,4-trichlorobenzene      | 13.28 | 180  | 179221   | 52.053  | uq/L  | 99       |
| 69) Naphthalene                 | 13.52 | 128  | 498955   | 57.272  | uq/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 13.77 | 180  | 178865   | 52.744  | uq/L  | 99       |

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

