

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV060320\  
 Data File : VV016450.D  
 Acq On : 03 Jun 2020 10:10  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Jun 04 01:14:26 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM060320WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Jun 03 01:20:33 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 394620   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 385391   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 196774   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 139068   | 49.75    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 99.50%  |
| 7) Chloroethane-d5             | 1.58    | 69    | 89095    | 44.15    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 88.30%  |
| 11) 1,1-Dichloroethene-d2      | 2.13    | 63    | 246419   | 49.73    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 99.46%  |
| 21) 2-Butanone-d5              | 3.90    | 46    | 188619   | 105.54   | ug/L | -0.01   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 105.54% |
| 24) Chloroform-d               | 4.38    | 84    | 240477   | 45.85    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 91.70%  |
| 26) 1,2-Dichloroethane-d4      | 5.06    | 65    | 179601   | 51.13    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 102.26% |
| 32) Benzene-d6                 | 5.08    | 84    | 514008   | 49.79    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 99.58%  |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 158621   | 49.31    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 98.62%  |
| 41) Toluene-d8                 | 7.34    | 98    | 476913   | 50.87    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 101.74% |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 74046    | 47.23    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 94.46%  |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 140070   | 101.68   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 101.68% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 215741   | 49.45    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 98.90%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 183834   | 49.71    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 99.42%  |

## Target Compounds

|                                |      |     |         |         | Ovalue   |
|--------------------------------|------|-----|---------|---------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 166183  | 51.040  | ug/L 98  |
| 3) Chloromethane               | 1.25 | 50  | 158559  | 50.544  | ug/L 99  |
| 5) Vinyl chloride              | 1.32 | 62  | 154156  | 50.859  | ug/L 100 |
| 6) Bromomethane                | 1.53 | 94  | 71137   | 45.114  | ug/L 98  |
| 8) Chloroethane                | 1.60 | 64  | 78351   | 46.125  | ug/L 95  |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 225286  | 51.468  | ug/L 98  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 115528  | 50.745  | ug/L 99  |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 113393  | 51.757  | ug/L 94  |
| 13) Acetone                    | 2.18 | 43  | 124536  | 74.557  | ug/L 98  |
| 14) Carbon disulfide           | 2.31 | 76  | 389145  | 51.305  | ug/L 98  |
| 15) Methyl Acetate             | 2.44 | 43  | 160598  | 52.311  | ug/L 99  |
| 16) Methylene chloride         | 2.53 | 84  | 152021  | 49.219  | ug/L 97  |
| 17) trans-1,2-Dichloroethene   | 2.78 | 96  | 141923  | 51.341  | ug/L 98  |
| 18) Methyl tert-butyl Ether    | 2.78 | 73  | 447895  | 52.337  | ug/L 100 |
| 19) 1,1-Dichloroethane         | 3.21 | 63  | 260498  | 50.954  | ug/L 99  |
| 20) cis-1,2-Dichloroethene     | 3.94 | 96  | 155026m | 51.965  | ug/L     |
| 22) 2-Butanone                 | 3.99 | 43  | 209873  | 101.254 | ug/L 97  |

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 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 26 Sample Multiplier: 1

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 MSVOA\_V  
 ClientSampleId :

Quant Time: Jun 04 01:14:26 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM060320WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Jun 03 01:20:33 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|---------------------------------|-------|------|----------|---------|-------|----------|
| 23) Bromochloromethane          | 4.28  | 128  | 79525    | 51.804  | ug/L  | 99       |
| 25) Chloroform                  | 4.40  | 83   | 295880   | 55.218  | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 5.15  | 62   | 218915   | 50.279  | ug/L  | 98       |
| 29) Cyclohexane                 | 4.70  | 56   | 235118   | 51.402  | ug/L  | 100      |
| 30) 1,1,1-Trichloroethane       | 4.63  | 97   | 237790   | 50.628  | ug/L  | 99       |
| 31) Carbon tetrachloride        | 4.86  | 117  | 204666   | 50.667  | ug/L  | 100      |
| 33) Benzene                     | 5.13  | 78   | 576323   | 50.848  | ug/L  | 100      |
| 34) Trichloroethene             | 5.94  | 95   | 150496   | 50.603  | ug/L  | 96       |
| 35) Methylcyclohexane           | 6.15  | 83   | 212519   | 49.783  | ug/L  | 100      |
| 37) 1,2-Dichloropropane         | 6.20  | 63   | 149094   | 50.467  | ug/L  | 99       |
| 38) Bromodichloromethane        | 6.53  | 83   | 196503   | 51.768  | ug/L  | 98       |
| 39) cis-1,3-Dichloropropene     | 7.05  | 75   | 222765   | 51.716  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone        | 7.24  | 43   | 430905   | 106.004 | ug/L  | 99       |
| 42) Toluene                     | 7.41  | 91   | 618569   | 51.503  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene   | 7.67  | 75   | 213129   | 50.429  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane       | 7.86  | 97   | 143242   | 50.144  | ug/L  | 99       |
| 46) Tetrachloroethene           | 8.00  | 164  | 116571   | 50.836  | ug/L  | 97       |
| 48) 2-Hexanone                  | 8.16  | 43   | 330810   | 104.678 | ug/L  | 98       |
| 49) Dibromochloromethane        | 8.27  | 129  | 150802   | 54.301  | ug/L  | 99       |
| 50) 1,2-Dibromoethane           | 8.37  | 107  | 153942   | 50.944  | ug/L  | 99       |
| 51) Chlorobenzene               | 8.90  | 112  | 394824   | 50.018  | ug/L  | 99       |
| 52) Ethylbenzene                | 9.03  | 91   | 680326   | 52.045  | ug/L  | 99       |
| 53) m,p-Xylene                  | 9.16  | 106  | 256687   | 52.077  | ug/L  | 99       |
| 54) o-xylene                    | 9.57  | 106  | 248361   | 52.027  | ug/L  | 99       |
| 55) Styrene                     | 9.58  | 104  | 446199   | 53.356  | ug/L  | 100      |
| 56) Isopropylbenzene            | 9.95  | 105  | 647416   | 52.213  | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.26 | 83   | 229961   | 50.183  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 10.30 | 75   | 181168   | 49.143  | ug/L  | 99       |
| 61) Bromoform                   | 9.75  | 173  | 91163    | 55.329  | ug/L  | 98       |
| 62) 1,3-Dichlorobenzene         | 11.20 | 146  | 312601   | 51.274  | ug/L  | 98       |
| 63) 1,4-Dichlorobenzene         | 11.30 | 146  | 315711   | 49.908  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 11.67 | 146  | 307629   | 50.131  | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.45 | 75   | 47403    | 50.902  | ug/L  | 99       |
| 67) 1,3,5-Trichlorobenzene      | 12.67 | 180  | 193669   | 47.217  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.28 | 180  | 179657   | 47.312  | ug/L  | 99       |
| 69) Naphthalene                 | 13.52 | 128  | 592782   | 50.859  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 13.77 | 180  | 177511   | 49.176  | ug/L  | 99       |

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

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