

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV101519\  
 Data File : VV013172.D  
 Acq On : 15 Oct 2019 17:31  
 Operator : SY/MD  
 Sample : VSTDCCC050EC  
 Misc : 5.00ML/MSVOA V/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05076

Manual Integrations  
 APPROVED

MMDadoda  
 10/16/2019 9:25:31 AM

Quant Time: Oct 15 18:59:28 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM101119WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Oct 15 18:13:27 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 709440   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 680743   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 336492   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 243787   | 54.36    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 108.72% |
| 7) Chloroethane-d5             | 1.58    | 69    | 201179   | 54.73    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 109.46% |
| 11) 1,1-Dichloroethene-d2      | 2.13    | 63    | 392101   | 46.36    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 92.72%  |
| 21) 2-Butanone-d5              | 3.97    | 46    | 355018   | 105.29   | ug/L | 0.05    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 105.29% |
| 24) Chloroform-d               | 4.40    | 84    | 479977   | 55.60    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 111.20% |
| 26) 1,2-Dichloroethane-d4      | 5.08    | 65    | 290496   | 54.59    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 109.18% |
| 32) Benzene-d6                 | 5.10    | 84    | 1000153  | 55.07    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 110.14% |
| 36) 1,2-Dichloropropane-d6     | 6.12    | 67    | 307928   | 54.11    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 108.22% |
| 41) Toluene-d8                 | 7.36    | 98    | 910624   | 56.03    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 112.06% |
| 43) trans-1,3-Dichloropropene- | 7.66    | 79    | 131731   | 51.10    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 102.20% |
| 47) 2-Hexanone-d5              | 8.13    | 63    | 234389   | 103.52   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 103.52% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26   | 84    | 385251   | 52.46    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 104.92% |
| 64) 1,2-Dichlorobenzene-d4     | 11.67   | 152   | 345184   | 52.36    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 104.72% |

## Target Compounds

|                                |      |     |         |         | Ovalue   |
|--------------------------------|------|-----|---------|---------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 266471  | 48.422  | ug/L 100 |
| 3) Chloromethane               | 1.25 | 50  | 293052  | 46.798  | ug/L 100 |
| 5) Vinyl chloride              | 1.32 | 62  | 283689  | 47.157  | ug/L 99  |
| 6) Bromomethane                | 1.53 | 94  | 182761  | 59.374  | ug/L 96  |
| 8) Chloroethane                | 1.60 | 64  | 171845  | 48.024  | ug/L 99  |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 368761  | 47.772  | ug/L 98  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 201153  | 44.240  | ug/L 95  |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 193496  | 43.980  | ug/L 95  |
| 13) Acetone                    | 2.24 | 43  | 291985m | 94.310  | ug/L     |
| 14) Carbon disulfide           | 2.31 | 76  | 589271  | 46.183  | ug/L 99  |
| 15) Methyl Acetate             | 2.47 | 43  | 272650  | 49.695  | ug/L 100 |
| 16) Methylene chloride         | 2.53 | 84  | 259032  | 49.485  | ug/L 98  |
| 17) trans-1,2-Dichloroethene   | 2.79 | 96  | 231627  | 48.528  | ug/L 97  |
| 18) Methyl tert-butyl Ether    | 2.81 | 73  | 717031  | 49.771  | ug/L 99  |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 446505  | 49.593  | ug/L 98  |
| 20) cis-1,2-Dichloroethene     | 3.96 | 96  | 256940  | 47.564  | ug/L 98  |
| 22) 2-Butanone                 | 4.05 | 43  | 419796m | 106.529 | ug/L     |

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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 23) Bromochloromethane         | 4.30  | 128  | 136663   | 49.811  | uq/L  | 97       |
| 25) Chloroform                 | 4.42  | 83   | 459025   | 50.600  | uq/L  | 98       |
| 27) 1,2-Dichloroethane         | 5.18  | 62   | 346164   | 49.780  | uq/L  | 99       |
| 29) Cyclohexane                | 4.72  | 56   | 397240   | 48.724  | uq/L  | 100      |
| 30) 1,1,1-Trichloroethane      | 4.66  | 97   | 372952   | 49.375  | uq/L  | 99       |
| 31) Carbon tetrachloride       | 4.87  | 117  | 324963   | 48.416  | uq/L  | 99       |
| 33) Benzene                    | 5.14  | 78   | 1029984  | 49.676  | uq/L  | 100      |
| 34) Trichloroethene            | 5.96  | 95   | 277806   | 50.321  | uq/L  | 98       |
| 35) Methylcyclohexane          | 6.17  | 83   | 402236   | 48.167  | uq/L  | 99       |
| 37) 1,2-Dichloropropane        | 6.22  | 63   | 262720   | 48.933  | uq/L  | 99       |
| 38) Bromodichloromethane       | 6.55  | 83   | 333287   | 48.786  | uq/L  | 98       |
| 39) cis-1,3-Dichloropropene    | 7.07  | 75   | 387212   | 48.764  | uq/L  | 100      |
| 40) 4-Methyl-2-pentanone       | 7.28  | 43   | 743917   | 105.847 | uq/L  | 98       |
| 42) Toluene                    | 7.43  | 91   | 1091613  | 51.141  | uq/L  | 99       |
| 44) trans-1,3-Dichloropropene  | 7.69  | 75   | 334234   | 48.557  | uq/L  | 99       |
| 45) 1,1,2-Trichloroethane      | 7.88  | 97   | 252878   | 49.609  | uq/L  | 99       |
| 46) Tetrachloroethene          | 8.02  | 164  | 217920   | 49.860  | uq/L  | 97       |
| 48) 2-Hexanone                 | 8.19  | 43   | 594556   | 109.397 | uq/L  | 99       |
| 49) Dibromochloromethane       | 8.29  | 129  | 272382   | 49.030  | uq/L  | 98       |
| 50) 1,2-Dibromoethane          | 8.39  | 107  | 258931   | 48.602  | uq/L  | 98       |
| 51) Chlorobenzene              | 8.92  | 112  | 684235   | 48.882  | uq/L  | 99       |
| 52) Ethylbenzene               | 9.05  | 91   | 1148087  | 50.355  | uq/L  | 99       |
| 53) m,p-Xylene                 | 9.18  | 106  | 443459   | 51.699  | uq/L  | 100      |
| 54) o-xylene                   | 9.59  | 106  | 426896   | 49.674  | uq/L  | 99       |
| 55) Styrene                    | 9.60  | 104  | 737929   | 52.286  | uq/L  | 99       |
| 56) Isopropylbenzene           | 9.97  | 105  | 1119408  | 50.727  | uq/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.28 | 83   | 355532   | 47.978  | uq/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.31 | 75   | 324674   | 49.673  | uq/L  | 99       |
| 61) Bromoform                  | 9.77  | 173  | 199667   | 47.155  | uq/L  | 99       |
| 62) 1,3-Dichlorobenzene        | 11.22 | 146  | 520717   | 47.853  | uq/L  | 99       |
| 63) 1,4-Dichlorobenzene        | 11.31 | 146  | 523353   | 47.894  | uq/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 11.68 | 146  | 537651   | 48.536  | uq/L  | 100      |
| 66) 1,2-Dibromo-3-chloropropan | 12.47 | 75   | 74157    | 46.027  | uq/L  | 98       |
| 67) 1,3,5-Trichlorobenzene     | 12.69 | 180  | 353412   | 45.541  | uq/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.31 | 180  | 299997   | 45.071  | uq/L  | 99       |
| 69) Naphthalene                | 13.55 | 128  | 863796   | 47.106  | uq/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.79 | 180  | 334808   | 47.023  | uq/L  | 100      |

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

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