

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV033020\  
 Data File : VV015293.D  
 Acq On : 31 Mar 2020 00:09  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Mar 31 06:24:40 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM033020WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Mar 31 02:12:40 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 643727   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 647802   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 303532   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 196820   | 41.93    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 83.86% |
| 7) Chloroethane-d5             | 1.58    | 69    | 190302   | 43.57    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 87.14% |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 420560   | 41.55    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 83.10% |
| 21) 2-Butanone-d5              | 3.93    | 46    | 301689m  | 98.29    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 98.29% |
| 24) Chloroform-d               | 4.38    | 84    | 389824   | 46.20    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.40% |
| 26) 1,2-Dichloroethane-d4      | 5.06    | 65    | 257669   | 46.72    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.44% |
| 32) Benzene-d6                 | 5.08    | 84    | 743118   | 43.94    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 87.88% |
| 36) 1,2-Dichloropropane-d6     | 6.10    | 67    | 238046   | 45.01    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 90.02% |
| 41) Toluene-d8                 | 7.34    | 98    | 739284   | 45.19    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 90.38% |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 125791   | 43.68    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 87.36% |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 245500   | 98.96    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 98.96% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 364979   | 46.77    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 93.54% |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 275956   | 45.68    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 91.36% |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units  | Ovalue |
|--------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85   | 230165   | 50.823 | ug/L   | 99     |
| 3) Chloromethane               | 1.25 | 50   | 249060   | 48.427 | ug/L   | 98     |
| 5) Vinyl chloride              | 1.32 | 62   | 268062   | 49.406 | ug/L   | 99     |
| 6) Bromomethane                | 1.53 | 94   | 171664   | 47.296 | ug/L   | 95     |
| 8) Chloroethane                | 1.60 | 64   | 199426   | 53.301 | ug/L   | 98     |
| 9) Trichlorofluoromethane      | 1.77 | 101  | 478147   | 52.135 | ug/L   | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101  | 232594   | 47.295 | ug/L   | 99     |
| 12) 1,1-Dichloroethene         | 2.13 | 96   | 223685   | 46.983 | ug/L   | 97     |
| 13) Acetone                    | 2.21 | 43   | 188506   | 89.997 | ug/L   | 98     |
| 14) Carbon disulfide           | 2.31 | 76   | 530642   | 45.802 | ug/L   | 100    |
| 15) Methyl Acetate             | 2.46 | 43   | 218646   | 51.986 | ug/L   | 100    |
| 16) Methylene chloride         | 2.53 | 84   | 217440   | 48.817 | ug/L   | 100    |
| 17) trans-1,2-Dichloroethene   | 2.78 | 96   | 193646   | 48.537 | ug/L   | 97     |
| 18) Methyl tert-butyl Ether    | 2.79 | 73   | 689599   | 50.766 | ug/L   | 99     |
| 19) 1,1-Dichloroethane         | 3.22 | 63   | 374285   | 50.319 | ug/L   | 99     |
| 20) cis-1,2-Dichloroethene     | 3.94 | 96   | 224955   | 50.159 | ug/L # | 97     |
| 22) 2-Butanone                 | 4.01 | 43   | 302707   | 99.138 | ug/L   | 96     |

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

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Mar 31 06:24:40 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM033020WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Mar 31 02:12:40 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|---------------------------------|-------|------|----------|---------|-------|----------|
| 23) Bromochloromethane          | 4.28  | 128  | 107894   | 48.871  | ug/L  | 98       |
| 25) Chloroform                  | 4.41  | 83   | 403431   | 50.798  | ug/L  | 97       |
| 27) 1,2-Dichloroethane          | 5.16  | 62   | 316564   | 50.116  | ug/L  | 99       |
| 29) Cyclohexane                 | 4.70  | 56   | 332605   | 48.404  | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane       | 4.64  | 97   | 361491   | 49.216  | ug/L  | 98       |
| 31) Carbon tetrachloride        | 4.86  | 117  | 304022   | 48.860  | ug/L  | 99       |
| 33) Benzene                     | 5.13  | 78   | 859236   | 50.103  | ug/L  | 100      |
| 34) Trichloroethene             | 5.94  | 95   | 226111   | 49.149  | ug/L  | 98       |
| 35) Methylcyclohexane           | 6.15  | 83   | 355587   | 49.279  | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.20  | 63   | 216194   | 49.562  | ug/L  | 100      |
| 38) Bromodichloromethane        | 6.53  | 83   | 315662   | 50.322  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene     | 7.05  | 75   | 348416   | 47.295  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone        | 7.25  | 43   | 638815   | 98.495  | ug/L  | 99       |
| 42) Toluene                     | 7.41  | 91   | 979651   | 50.886  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene   | 7.67  | 75   | 358475   | 49.524  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane       | 7.86  | 97   | 225498   | 51.315  | ug/L  | 98       |
| 46) Tetrachloroethene           | 8.00  | 164  | 152148   | 49.979  | ug/L  | 94       |
| 48) 2-Hexanone                  | 8.16  | 43   | 505745   | 101.646 | ug/L  | 99       |
| 49) Dibromochloromethane        | 8.27  | 129  | 242592   | 50.512  | ug/L  | 97       |
| 50) 1,2-Dibromoethane           | 8.37  | 107  | 240520   | 50.374  | ug/L  | 99       |
| 51) Chlorobenzene               | 8.90  | 112  | 631308   | 50.386  | ug/L  | 98       |
| 52) Ethylbenzene                | 9.03  | 91   | 1114108  | 51.319  | ug/L  | 99       |
| 53) m,p-Xylene                  | 9.16  | 106  | 433030   | 52.295  | ug/L  | 96       |
| 54) o-xylene                    | 9.57  | 106  | 428947   | 52.072  | ug/L  | 99       |
| 55) Styrene                     | 9.58  | 104  | 725633   | 51.621  | ug/L  | 99       |
| 56) Isopropylbenzene            | 9.95  | 105  | 1112891  | 51.323  | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.26 | 83   | 374785   | 51.390  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 10.30 | 75   | 303309   | 50.256  | ug/L  | 98       |
| 61) Bromoform                   | 9.75  | 173  | 155203   | 51.271  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene         | 11.20 | 146  | 469903   | 50.761  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.30 | 146  | 464709   | 49.182  | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene         | 11.67 | 146  | 472392   | 50.569  | ug/L  | 97       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.45 | 75   | 99223    | 48.276  | ug/L  | 96       |
| 67) 1,3,5-Trichlorobenzene      | 12.67 | 180  | 296305   | 50.151  | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene      | 13.29 | 180  | 276733   | 49.295  | ug/L  | 98       |
| 69) Naphthalene                 | 13.53 | 128  | 1134845  | 50.712  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 13.77 | 180  | 287364   | 51.004  | ug/L  | 100      |

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

