

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV101920\  
 Data File : VV018983.D  
 Acq On : 19 Oct 2020 20:41  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05095

Quant Time: Oct 20 01:08:58 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM101420WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Oct 20 01:05:12 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 317495   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 309790   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 168100   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 93058    | 35.61    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 71.22%  |
| 7) Chloroethane-d5             | 1.58    | 69    | 88544    | 42.76    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 85.52%  |
| 11) 1,1-Dichloroethene-d2      | 2.13    | 63    | 212069   | 42.98    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 85.96%  |
| 21) 2-Butanone-d5              | 3.91    | 46    | 189840   | 104.21   | ug/L | 0.02    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 104.21% |
| 24) Chloroform-d               | 4.38    | 84    | 206469   | 43.97    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 87.94%  |
| 26) 1,2-Dichloroethane-d4      | 5.06    | 65    | 140185   | 44.98    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 89.96%  |
| 32) Benzene-d6                 | 5.07    | 84    | 375439   | 41.51    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 83.02%  |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 125085   | 43.26    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 86.52%  |
| 41) Toluene-d8                 | 7.34    | 98    | 335286   | 41.33    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 82.66%  |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 64419    | 45.58    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 91.16%  |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 107335   | 99.92    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 99.92%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.23   | 84    | 163045   | 48.11    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 96.22%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 146662   | 42.88    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 85.76%  |

## Target Compounds

|                                |      |     |        |         | Ovalue   |
|--------------------------------|------|-----|--------|---------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 123908 | 45.071  | ug/L 100 |
| 3) Chloromethane               | 1.25 | 50  | 153643 | 49.554  | ug/L 100 |
| 5) Vinyl chloride              | 1.32 | 62  | 155341 | 51.837  | ug/L 99  |
| 6) Bromomethane                | 1.53 | 94  | 97553  | 53.356  | ug/L 100 |
| 8) Chloroethane                | 1.60 | 64  | 100182 | 55.740  | ug/L 98  |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 201722 | 51.000  | ug/L 100 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 106880 | 51.892  | ug/L 99  |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 110870 | 53.118  | ug/L 96  |
| 13) Acetone                    | 2.20 | 43  | 134720 | 101.207 | ug/L 97  |
| 14) Carbon disulfide           | 2.31 | 76  | 349097 | 49.092  | ug/L 99  |
| 15) Methyl Acetate             | 2.45 | 43  | 151542 | 55.419  | ug/L 99  |
| 16) Methylene chloride         | 2.52 | 84  | 134879 | 53.865  | ug/L 99  |
| 17) trans-1,2-Dichloroethene   | 2.78 | 96  | 122219 | 52.749  | ug/L 99  |
| 18) Methyl tert-butyl Ether    | 2.78 | 73  | 401400 | 54.832  | ug/L 100 |
| 19) 1,1-Dichloroethane         | 3.21 | 63  | 244093 | 54.151  | ug/L 99  |
| 20) cis-1,2-Dichloroethene     | 3.94 | 96  | 131513 | 53.554  | ug/L 100 |
| 22) 2-Butanone                 | 4.00 | 43  | 192196 | 106.191 | ug/L 99  |

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 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|---------------------------------|-------|------|----------|---------|-------|----------|
| 23) Bromochloromethane          | 4.27  | 128  | 64877    | 51.154  | uq/L  | 98       |
| 25) Chloroform                  | 4.40  | 83   | 223038   | 49.206  | uq/L  | 99       |
| 27) 1,2-Dichloroethane          | 5.15  | 62   | 185357   | 50.059  | uq/L  | 100      |
| 29) Cyclohexane                 | 4.70  | 56   | 169144   | 45.943  | uq/L  | 99       |
| 30) 1,1,1-Trichloroethane       | 4.64  | 97   | 193131   | 50.242  | uq/L  | 99       |
| 31) Carbon tetrachloride        | 4.86  | 117  | 164544   | 50.294  | uq/L  | 99       |
| 33) Benzene                     | 5.13  | 78   | 466129   | 49.085  | uq/L  | 100      |
| 34) Trichloroethene             | 5.94  | 95   | 129389   | 47.248  | uq/L  | 98       |
| 35) Methylcyclohexane           | 6.15  | 83   | 151091   | 45.555  | uq/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.20  | 63   | 126572   | 49.789  | uq/L  | 99       |
| 38) Bromodichloromethane        | 6.53  | 83   | 164101   | 50.348  | uq/L  | 98       |
| 39) cis-1,3-Dichloropropene     | 7.05  | 75   | 187799   | 49.163  | uq/L  | 98       |
| 40) 4-Methyl-2-pentanone        | 7.24  | 43   | 359993   | 102.685 | uq/L  | 99       |
| 42) Toluene                     | 7.41  | 91   | 490786   | 50.039  | uq/L  | 99       |
| 44) trans-1,3-Dichloropropene   | 7.67  | 75   | 193923   | 52.387  | uq/L  | 100      |
| 45) 1,1,2-Trichloroethane       | 7.86  | 97   | 118113   | 49.949  | uq/L  | 98       |
| 46) Tetrachloroethene           | 8.00  | 164  | 90472    | 46.877  | uq/L  | 99       |
| 48) 2-Hexanone                  | 8.16  | 43   | 277053   | 99.671  | uq/L  | 99       |
| 49) Dibromochloromethane        | 8.27  | 129  | 130777   | 52.238  | uq/L  | 98       |
| 50) 1,2-Dibromoethane           | 8.37  | 107  | 121151   | 49.161  | uq/L  | 99       |
| 51) Chlorobenzene               | 8.90  | 112  | 314932   | 49.251  | uq/L  | 99       |
| 52) Ethylbenzene                | 9.03  | 91   | 535538   | 50.439  | uq/L  | 100      |
| 53) m,p-Xylene                  | 9.16  | 106  | 196937   | 49.786  | uq/L  | 98       |
| 54) o-xylene                    | 9.56  | 106  | 194956   | 51.516  | uq/L  | 97       |
| 55) Styrene                     | 9.58  | 104  | 349210   | 52.462  | uq/L  | 97       |
| 56) Isopropylbenzene            | 9.95  | 105  | 503473   | 50.677  | uq/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.26 | 83   | 163148   | 50.811  | uq/L  | 100      |
| 59) 1,2,3-Trichloropropane      | 10.29 | 75   | 154108   | 50.080  | uq/L  | 100      |
| 61) Bromoform                   | 9.75  | 173  | 93858    | 51.112  | uq/L  | 99       |
| 62) 1,3-Dichlorobenzene         | 11.20 | 146  | 250215   | 48.015  | uq/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.29 | 146  | 258945   | 47.263  | uq/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 11.66 | 146  | 252994   | 48.119  | uq/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.45 | 75   | 37584    | 47.968  | uq/L  | 98       |
| 67) 1,3,5-Trichlorobenzene      | 12.67 | 180  | 172814   | 49.367  | uq/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.28 | 180  | 162591   | 50.406  | uq/L  | 100      |
| 69) Naphthalene                 | 13.52 | 128  | 484173   | 52.891  | uq/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 13.77 | 180  | 167599   | 51.980  | uq/L  | 99       |

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

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