

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV051820\  
 Data File : VV016093.D  
 Acq On : 18 May 2020 11:39  
 Operator : SY/MD  
 Sample : VSTD10064  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD10064

Quant Time: May 19 03:14:59 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM051820WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue May 19 03:10:13 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 339164   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 335134   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 172421   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |        |      |      |
|--------------------------------|-------|-----|--------|--------|------|------|
| 4) Vinyl Chloride-d3           | 1.32  | 65  | 244573 | 83.03  | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.58  | 69  | 214467 | 84.54  | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.13  | 63  | 454495 | 85.66  | ug/L | 0.00 |
| 21) 2-Butanone-d5              | 3.93  | 46  | 317649 | 197.48 | ug/L | 0.00 |
| 24) Chloroform-d               | 4.38  | 84  | 478292 | 96.64  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.06  | 65  | 320272 | 101.02 | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.08  | 84  | 928503 | 90.26  | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.10  | 67  | 292915 | 96.07  | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.34  | 98  | 890408 | 90.98  | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 7.64  | 79  | 154997 | 92.49  | ug/L | 0.00 |
| 47) 2-Hexanone-d5              | 8.11  | 63  | 215850 | 161.78 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24 | 84  | 370314 | 87.20  | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 11.65 | 152 | 335768 | 86.72  | ug/L | 0.00 |

## Target Compounds

|                                |      |     |        |         | Qvalue   |
|--------------------------------|------|-----|--------|---------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 239340 | 81.161  | ug/L 99  |
| 3) Chloromethane               | 1.25 | 50  | 248462 | 87.854  | ug/L 100 |
| 5) Vinyl chloride              | 1.32 | 62  | 243714 | 83.071  | ug/L 100 |
| 6) Bromomethane                | 1.53 | 94  | 150438 | 78.854  | ug/L 99  |
| 8) Chloroethane                | 1.60 | 64  | 156560 | 77.169  | ug/L 100 |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 328677 | 62.154  | ug/L 99  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 197453 | 80.145  | ug/L 99  |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 183967 | 79.589  | ug/L 94  |
| 13) Acetone                    | 2.21 | 43  | 253859 | 231.065 | ug/L 99  |
| 14) Carbon disulfide           | 2.31 | 76  | 542131 | 83.626  | ug/L 100 |
| 15) Methyl Acetate             | 2.46 | 43  | 229637 | 99.996  | ug/L 100 |
| 16) Methylene chloride         | 2.53 | 84  | 233486 | 92.421  | ug/L 98  |
| 17) trans-1,2-Dichloroethene   | 2.78 | 96  | 204924 | 90.190  | ug/L 99  |
| 18) Methyl tert-butyl Ether    | 2.79 | 73  | 725080 | 96.102  | ug/L 99  |
| 19) 1,1-Dichloroethane         | 3.22 | 63  | 423239 | 100.206 | ug/L 99  |
| 20) cis-1,2-Dichloroethene     | 3.94 | 96  | 231957 | 89.304  | ug/L 97  |
| 22) 2-Butanone                 | 4.01 | 43  | 328803 | 211.309 | ug/L 100 |
| 23) Bromochloromethane         | 4.28 | 128 | 118849 | 90.656  | ug/L 96  |
| 25) Chloroform                 | 4.41 | 83  | 436680 | 95.108  | ug/L 99  |
| 27) 1,2-Dichloroethane         | 5.16 | 62  | 366445 | 105.068 | ug/L 99  |
| 29) Cyclohexane                | 4.71 | 56  | 376363 | 94.706  | ug/L 99  |
| 30) 1,1,1-Trichloroethane      | 4.64 | 97  | 390995 | 91.874  | ug/L 99  |
| 31) Carbon tetrachloride       | 4.86 | 117 | 331689 | 91.414  | ug/L 99  |
| 33) Benzene                    | 5.13 | 78  | 908997 | 92.773  | ug/L 100 |
| 34) Trichloroethene            | 5.94 | 95  | 228934 | 88.640  | ug/L 99  |
| 35) Methylcyclohexane          | 6.16 | 83  | 370823 | 88.021  | ug/L 99  |
| 37) 1,2-Dichloropropane        | 6.20 | 63  | 245797 | 100.545 | ug/L 99  |
| 38) Bromodichloromethane       | 6.53 | 83  | 330561 | 94.081  | ug/L 99  |
| 39) cis-1,3-Dichloropropene    | 7.05 | 75  | 384498 | 95.057  | ug/L 99  |
| 40) 4-Methyl-2-pentanone       | 7.25 | 43  | 645070 | 190.279 | ug/L 99  |

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 ALS Vial : 5 Sample Multiplier: 1

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 MSVOA\_V  
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 Quant Title : VOC Analysis  
 QLast Update : Tue May 19 03:10:13 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 42) Toluene                    | 7.41  | 91   | 994840   | 91.810  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene  | 7.67  | 75   | 389615   | 98.295  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane      | 7.86  | 97   | 221968   | 88.386  | ug/L  | 99       |
| 46) Tetrachloroethene          | 8.00  | 164  | 174983   | 93.718  | ug/L  | 99       |
| 48) 2-Hexanone                 | 8.16  | 43   | 499852   | 195.414 | ug/L  | 99       |
| 49) Dibromochloromethane       | 8.27  | 129  | 251498   | 91.430  | ug/L  | 100      |
| 50) 1,2-Dibromoethane          | 8.37  | 107  | 232946   | 87.588  | ug/L  | 98       |
| 51) Chlorobenzene              | 8.90  | 112  | 633080   | 89.408  | ug/L  | 99       |
| 52) Ethylbenzene               | 9.03  | 91   | 1141121  | 93.829  | ug/L  | 99       |
| 53) m,p-Xylene                 | 9.16  | 106  | 425019   | 91.330  | ug/L  | 98       |
| 54) o-xylene                   | 9.57  | 106  | 416261   | 89.572  | ug/L  | 98       |
| 55) Styrene                    | 9.58  | 104  | 737171   | 94.451  | ug/L  | 99       |
| 56) Isopropylbenzene           | 9.95  | 105  | 1126608  | 92.981  | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.26 | 83   | 356860   | 88.664  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.30 | 75   | 293588   | 91.128  | ug/L  | 99       |
| 61) Bromoform                  | 9.75  | 173  | 166691   | 89.282  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene        | 11.20 | 146  | 505003   | 88.995  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene        | 11.30 | 146  | 515193   | 89.119  | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene        | 11.67 | 146  | 508796   | 88.199  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.45 | 75   | 82233    | 74.574  | ug/L  | 97       |
| 67) 1,3,5-Trichlorobenzene     | 12.67 | 180  | 354260   | 93.475  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.29 | 180  | 328904   | 95.044  | ug/L  | 99       |
| 69) Naphthalene                | 13.52 | 128  | 1021835  | 80.166  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.77 | 180  | 331165   | 92.826  | ug/L  | 99       |

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

