

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV092318\  
 Data File : VV007737.D  
 Acq On : 22 Sep 2018 16:03  
 Operator : SY/MD  
 Sample : VSTD00563  
 Misc : 5.0 mL/MSVOA V/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00563

Quant Time: Sep 24 02:14:32 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM092318WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Sep 24 02:11:09 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 194609   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 182959   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 101159   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |       |      |      |      |
|--------------------------------|-------|-----|-------|------|------|------|
| 4) Vinyl Chloride-d3           | 1.32  | 65  | 5676  | 5.86 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.59  | 69  | 5135  | 5.71 | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.14  | 63  | 13294 | 5.52 | ug/L | 0.00 |
| 21) 2-Butanone-d5              | 3.96  | 46  | 6621  | 9.53 | ug/L | 0.00 |
| 24) Chloroform-d               | 4.41  | 84  | 11642 | 5.80 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.09  | 65  | 7293  | 5.28 | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.11  | 84  | 21925 | 5.48 | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.12  | 67  | 6630  | 5.64 | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.36  | 98  | 22522 | 5.43 | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 7.67  | 79  | 2844  | 4.88 | ug/L | 0.00 |
| 47) 2-Hexanone-d5              | 8.14  | 63  | 5258  | 9.57 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27 | 84  | 9293  | 4.74 | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 11.68 | 152 | 11609 | 5.84 | ug/L | 0.00 |

## Target Compounds

|                                |      |     |       |              | Qvalue |
|--------------------------------|------|-----|-------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 7183  | 5.150 ug/L   | 99     |
| 3) Chloromethane               | 1.25 | 50  | 5601  | 5.128 ug/L   | 96     |
| 5) Vinyl chloride              | 1.33 | 62  | 6627  | 5.306 ug/L   | 99     |
| 6) Bromomethane                | 1.54 | 94  | 5200  | 7.063 ug/L   | 97     |
| 8) Chloroethane                | 1.60 | 64  | 4707  | 5.275 ug/L   | 99     |
| 9) Trichlorofluoromethane      | 1.78 | 101 | 13581 | 5.125 ug/L   | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.15 | 101 | 7656  | 5.089 ug/L   | 97     |
| 12) 1,1-Dichloroethene         | 2.15 | 96  | 6689  | 5.044 ug/L   | 98     |
| 13) Acetone                    | 2.19 | 43  | 7580  | 11.166 ug/L  | 96     |
| 14) Carbon disulfide           | 2.33 | 76  | 19674 | 6.058 ug/L   | 98     |
| 15) Methyl Acetate             | 2.46 | 43  | 6604  | 5.019 ug/L   | 97     |
| 16) Methylene chloride         | 2.54 | 84  | 7314  | 5.000 ug/L   | 93     |
| 17) trans-1,2-Dichloroethene   | 2.80 | 96  | 7901  | 5.462 ug/L   | 98     |
| 18) Methyl tert-butyl Ether    | 2.82 | 73  | 21620 | 4.884 ug/L   | 98     |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 9175  | 4.884 ug/L   | 97     |
| 20) cis-1,2-Dichloroethene     | 3.97 | 96  | 6715  | 5.082 ug/L   | 99     |
| 22) 2-Butanone                 | 4.04 | 43  | 7687  | 9.714 ug/L   | 99     |
| 23) Bromochloromethane         | 4.31 | 128 | 3561  | 4.925 ug/L   | 90     |
| 25) Chloroform                 | 4.44 | 83  | 10779 | 4.546 ug/L   | 99     |
| 27) 1,2-Dichloroethane         | 5.19 | 62  | 8706  | 4.884 ug/L   | 98     |
| 29) Cyclohexane                | 4.73 | 56  | 8259  | 5.061 ug/L   | 98     |
| 30) 1,1,1-Trichloroethane      | 4.67 | 97  | 9435  | 4.724 ug/L   | 98     |
| 31) Carbon tetrachloride       | 4.88 | 117 | 8803  | 4.944 ug/L   | 95     |
| 33) Benzene                    | 5.15 | 78  | 21893 | 4.923 ug/L   | 100    |
| 34) Trichloroethene            | 5.96 | 95  | 6829  | 5.341 ug/L   | 97     |
| 35) Methylcyclohexane          | 6.18 | 83  | 10504 | 5.319 ug/L   | 99     |
| 37) 1,2-Dichloropropane        | 6.23 | 63  | 5840  | 5.221 ug/L # | 92     |
| 38) Bromodichloromethane       | 6.56 | 83  | 7102  | 4.682 ug/L   | 100    |
| 39) cis-1,3-Dichloropropene    | 7.08 | 75  | 8096  | 4.663 ug/L   | 96     |
| 40) 4-Methyl-2-pentanone       | 7.28 | 43  | 14717 | 9.845 ug/L   | 97     |

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 Sample : VSTD00563  
 Misc : 5.0 mL/MSVOA V/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00563

Quant Time: Sep 24 02:14:32 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM092318WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Sep 24 02:11:09 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 42) Toluene                    | 7.44  | 91   | 25850    | 4.975 | ug/L   | 97       |
| 44) trans-1,3-Dichloropropene  | 7.70  | 75   | 7614     | 4.631 | ug/L   | 94       |
| 45) 1,1,2-Trichloroethane      | 7.89  | 97   | 6375     | 5.098 | ug/L   | 95       |
| 46) Tetrachloroethene          | 8.02  | 164  | 6957     | 5.301 | ug/L   | 95       |
| 48) 2-Hexanone                 | 8.19  | 43   | 9874     | 8.445 | ug/L   | 95       |
| 49) Dibromochloromethane       | 8.30  | 129  | 6058     | 4.287 | ug/L   | 99       |
| 50) 1,2-Dibromoethane          | 8.40  | 107  | 7159     | 5.215 | ug/L   | 95       |
| 51) Chlorobenzene              | 8.93  | 112  | 19017    | 5.082 | ug/L   | 98       |
| 52) Ethylbenzene               | 9.06  | 91   | 28525    | 4.803 | ug/L   | 99       |
| 53) m,p-Xylene                 | 9.19  | 106  | 11543    | 4.892 | ug/L   | 99       |
| 54) o-xylene                   | 9.59  | 106  | 11114    | 4.745 | ug/L   | 99       |
| 55) Styrene                    | 9.61  | 104  | 18118    | 4.565 | ug/L   | 99       |
| 56) Isopropylbenzene           | 9.98  | 105  | 29401    | 4.713 | ug/L   | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.29 | 83   | 9269     | 4.402 | ug/L   | 99       |
| 59) 1,2,3-Trichloropropane     | 10.32 | 75   | 7771     | 4.705 | ug/L   | 98       |
| 61) Bromoform                  | 9.78  | 173  | 4410     | 4.161 | ug/L # | 91       |
| 62) 1,3-Dichlorobenzene        | 11.23 | 146  | 17356    | 5.435 | ug/L   | 97       |
| 63) 1,4-Dichlorobenzene        | 11.32 | 146  | 18601    | 5.710 | ug/L   | 97       |
| 65) 1,2-Dichlorobenzene        | 11.69 | 146  | 17037    | 5.125 | ug/L   | 96       |
| 66) 1,2-Dibromo-3-chloropropan | 12.48 | 75   | 1888     | 4.812 | ug/L   | 94       |
| 67) 1,3,5-Trichlorobenzene     | 12.70 | 180  | 14844    | 5.855 | ug/L   | 97       |
| 68) 1,2,4-trichlorobenzene     | 13.31 | 180  | 13105    | 6.234 | ug/L   | 98       |
| 69) Naphthalene                | 13.56 | 128  | 27996    | 5.162 | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.80 | 180  | 12739    | 5.875 | ug/L   | 99       |

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

