

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV090420\  
 Data File : VV018154.D  
 Acq On : 04 Sep 2020 12:33  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05093

Quant Time: Sep 04 23:48:04 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM081120WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Sep 02 13:31:19 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 278102   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 272620   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 151644   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 76648    | 36.12    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 72.24%  |
| 7) Chloroethane-d5             | 1.58    | 69    | 73407    | 42.29    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 84.58%  |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 170639   | 42.04    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 84.08%  |
| 21) 2-Butanone-d5              | 3.91    | 46    | 144093   | 103.68   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 103.68% |
| 24) Chloroform-d               | 4.37    | 84    | 182895   | 47.35    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 94.70%  |
| 26) 1,2-Dichloroethane-d4      | 5.05    | 65    | 117186   | 46.71    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.42%  |
| 32) Benzene-d6                 | 5.07    | 84    | 346118   | 46.07    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.14%  |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 114309   | 46.54    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 93.08%  |
| 41) Toluene-d8                 | 7.33    | 98    | 312427   | 46.24    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 92.48%  |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 57893    | 51.97    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 103.94% |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 84685    | 107.44   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 107.44% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.23   | 84    | 164561   | 51.45    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 102.90% |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 147146   | 49.30    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 98.60%  |

## Target Compounds

|                                |      |     |        |              | Qvalue |
|--------------------------------|------|-----|--------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 88160  | 41.061 ug/L  | 99     |
| 3) Chloromethane               | 1.25 | 50  | 99148  | 39.753 ug/L  | 99     |
| 5) Vinyl chloride              | 1.32 | 62  | 106736 | 43.194 ug/L  | 100    |
| 6) Bromomethane                | 1.53 | 94  | 66565  | 45.071 ug/L  | 98     |
| 8) Chloroethane                | 1.60 | 64  | 70292  | 44.567 ug/L  | 100    |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 161160 | 45.656 ug/L  | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 97157  | 49.295 ug/L  | 97     |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 86792  | 46.525 ug/L  | 93     |
| 13) Acetone                    | 2.19 | 43  | 160241 | 111.631 ug/L | 98     |
| 14) Carbon disulfide           | 2.31 | 76  | 208589 | 40.626 ug/L  | 100    |
| 15) Methyl Acetate             | 2.45 | 43  | 104752 | 45.220 ug/L  | 99     |
| 16) Methylene chloride         | 2.52 | 84  | 102487 | 43.123 ug/L  | 99     |
| 17) trans-1,2-Dichloroethene   | 2.78 | 96  | 89524  | 46.685 ug/L  | 98     |
| 18) Methyl tert-butyl Ether    | 2.78 | 73  | 314092 | 49.526 ug/L  | 99     |
| 19) 1,1-Dichloroethane         | 3.21 | 63  | 186019 | 48.243 ug/L  | 99     |
| 20) cis-1,2-Dichloroethene     | 3.93 | 96  | 104785 | 49.725 ug/L  | 96     |
| 22) 2-Butanone                 | 3.99 | 43  | 175754 | 109.141 ug/L | 99     |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05093

Quant Time: Sep 04 23:48:04 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM081120WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Sep 02 13:31:19 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 23) Bromochloromethane         | 4.27  | 128  | 55098    | 50.050  | ug/L  | 94       |
| 25) Chloroform                 | 4.40  | 83   | 194421   | 49.435  | ug/L  | 97       |
| 27) 1,2-Dichloroethane         | 5.15  | 62   | 147778   | 47.208  | ug/L  | 97       |
| 29) Cyclohexane                | 4.70  | 56   | 145458   | 44.208  | ug/L  | 98       |
| 30) 1,1,1-Trichloroethane      | 4.63  | 97   | 162647   | 48.685  | ug/L  | 98       |
| 31) Carbon tetrachloride       | 4.85  | 117  | 139115   | 50.021  | ug/L  | 100      |
| 33) Benzene                    | 5.12  | 78   | 395601   | 46.903  | ug/L  | 100      |
| 34) Trichloroethene            | 5.94  | 95   | 106469   | 47.755  | ug/L  | 99       |
| 35) Methylcyclohexane          | 6.15  | 83   | 150302   | 45.338  | ug/L  | 99       |
| 37) 1,2-Dichloropropane        | 6.19  | 63   | 109432   | 47.576  | ug/L  | 100      |
| 38) Bromodichloromethane       | 6.53  | 83   | 144627   | 50.621  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene    | 7.05  | 75   | 170962   | 52.430  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone       | 7.24  | 43   | 284750   | 94.699  | ug/L  | 99       |
| 42) Toluene                    | 7.41  | 91   | 428392   | 48.674  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene  | 7.67  | 75   | 168993   | 54.622  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane      | 7.86  | 97   | 105371   | 49.467  | ug/L  | 99       |
| 46) Tetrachloroethene          | 7.99  | 164  | 82995    | 50.759  | ug/L  | 98       |
| 48) 2-Hexanone                 | 8.15  | 43   | 244532   | 100.849 | ug/L  | 99       |
| 49) Dibromochloromethane       | 8.26  | 129  | 116782   | 56.167  | ug/L  | 99       |
| 50) 1,2-Dibromoethane          | 8.37  | 107  | 106417   | 48.286  | ug/L  | 97       |
| 51) Chlorobenzene              | 8.90  | 112  | 281845   | 49.792  | ug/L  | 99       |
| 52) Ethylbenzene               | 9.03  | 91   | 479130   | 49.928  | ug/L  | 100      |
| 53) m,p-Xylene                 | 9.16  | 106  | 180303   | 51.084  | ug/L  | 97       |
| 54) o-xylene                   | 9.56  | 106  | 175230   | 50.238  | ug/L  | 98       |
| 55) Styrene                    | 9.58  | 104  | 315913   | 52.889  | ug/L  | 100      |
| 56) Isopropylbenzene           | 9.95  | 105  | 479410   | 52.101  | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.26 | 83   | 160614   | 48.421  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.29 | 75   | 134794   | 47.451  | ug/L  | 100      |
| 61) Bromoform                  | 9.75  | 173  | 85655    | 59.696  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene        | 11.20 | 146  | 239956   | 49.761  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene        | 11.29 | 146  | 246192   | 49.698  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 11.67 | 146  | 240439   | 48.443  | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 12.45 | 75   | 34751    | 47.520  | ug/L  | 97       |
| 67) 1,3,5-Trichlorobenzene     | 12.67 | 180  | 194183   | 53.009  | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene     | 13.28 | 180  | 178737   | 55.497  | ug/L  | 99       |
| 69) Naphthalene                | 13.52 | 128  | 466028   | 52.499  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.77 | 180  | 175570   | 53.605  | ug/L  | 100      |

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

