

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV081319\  
 Data File : VV012219.D  
 Acq On : 13 Aug 2019 16:47  
 Operator : SY/MD  
 Sample : VSTDICV005  
 Misc : 25mL/MSVOA V/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VICV34

Quant Time: Aug 14 02:52:46 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR081319WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Aug 14 02:48:55 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 233209   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 220358   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 111891   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 65678    | 4.57     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 91.40%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 50843    | 4.63     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 92.60%  |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 116902   | 4.97     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 99.40%  |
| 20) 2-Butanone-d5              | 3.97   | 46    | 150283   | 48.43    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 96.86%  |
| 24) Chloroform-d               | 4.40   | 84    | 134690   | 4.73     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 94.60%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 62939    | 4.68     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 93.60%  |
| 32) Benzene-d6                 | 5.10   | 84    | 266150   | 4.77     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 95.40%  |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 78413    | 4.77     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 95.40%  |
| 41) Toluene-d8                 | 7.36   | 98    | 254539   | 5.00     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 100.00% |
| 43) trans-1,3-Dichloropropene- | 7.66   | 79    | 30766    | 4.89     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 97.80%  |
| 46) 2-Hexanone-d5              | 8.14   | 63    | 104347   | 51.72    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 103.44% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 53584    | 4.68     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 93.60%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 88394    | 4.67     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 93.40%  |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 120460 | 5.382  | ug/L 98  |
| 3) Chloromethane               | 1.25 | 50  | 101254 | 4.995  | ug/L 97  |
| 5) Vinyl chloride              | 1.32 | 62  | 104072 | 4.997  | ug/L 99  |
| 6) Bromomethane                | 1.54 | 94  | 60231  | 5.117  | ug/L 98  |
| 8) Chloroethane                | 1.60 | 64  | 59574  | 4.959  | ug/L 98  |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 131370 | 5.014  | ug/L 99  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 70865  | 5.350  | ug/L 100 |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 66251  | 5.400  | ug/L 95  |
| 13) Acetone                    | 2.23 | 43  | 98351  | 50.859 | ug/L 97  |
| 14) Carbon disulfide           | 2.32 | 76  | 187969 | 5.232  | ug/L 99  |
| 15) Methyl Acetate             | 2.47 | 43  | 22633  | 4.636  | ug/L 96  |
| 16) Methylene chloride         | 2.53 | 84  | 61666  | 4.661  | ug/L 98  |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 177180 | 5.243  | ug/L 99  |
| 18) trans-1,2-Dichloroethene   | 2.78 | 96  | 84136  | 5.141  | ug/L 98  |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 157175 | 5.244  | ug/L 99  |
| 21) 2-Butanone                 | 4.05 | 43  | 202645 | 51.249 | ug/L 99  |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 92675  | 5.128  | ug/L 97  |

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 Misc : 25mL/MSVOA V/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VICV34

Quant Time: Aug 14 02:52:46 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR081319WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Aug 14 02:48:55 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 4.30  | 128  | 39017    | 5.064  | ug/L  | 98       |
| 25) Chloroform                  | 4.43  | 83   | 163843   | 4.814  | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 5.18  | 62   | 95076    | 5.087  | ug/L  | 97       |
| 29) 1,1,1-Trichloroethane       | 4.66  | 97   | 140467   | 5.212  | ug/L  | 99       |
| 30) Cyclohexane                 | 4.72  | 56   | 142625   | 5.314  | ug/L  | 99       |
| 31) Carbon tetrachloride        | 4.87  | 117  | 125853   | 5.161  | ug/L  | 98       |
| 33) Benzene                     | 5.14  | 78   | 352490   | 5.303  | ug/L  | 100      |
| 34) Trichloroethene             | 5.96  | 95   | 93468    | 5.191  | ug/L  | 97       |
| 35) Methylcyclohexane           | 6.17  | 83   | 151502   | 5.416  | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.22  | 63   | 86392    | 5.209  | ug/L  | 100      |
| 38) Bromodichloromethane        | 6.56  | 83   | 108126   | 5.061  | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene     | 7.07  | 75   | 122131   | 5.347  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone        | 7.28  | 43   | 501233   | 54.973 | ug/L  | 100      |
| 42) Toluene                     | 7.43  | 91   | 380052   | 5.374  | ug/L  | 97       |
| 44) trans-1,3-Dichloropropene   | 7.69  | 75   | 95178    | 5.296  | ug/L  | 97       |
| 45) 1,1,2-Trichloroethane       | 7.88  | 97   | 58066    | 5.249  | ug/L  | 98       |
| 47) Tetrachloroethene           | 8.02  | 164  | 78126    | 5.264  | ug/L  | 97       |
| 48) 2-Hexanone                  | 8.19  | 43   | 361806   | 56.300 | ug/L  | 99       |
| 49) Dibromochloromethane        | 8.29  | 129  | 71390    | 5.199  | ug/L  | 96       |
| 50) 1,2-Dibromoethane           | 8.40  | 107  | 54642    | 5.114  | ug/L  | 99       |
| 51) Chlorobenzene               | 8.92  | 112  | 241773   | 5.280  | ug/L  | 99       |
| 52) Ethylbenzene                | 9.05  | 91   | 408260   | 5.417  | ug/L  | 100      |
| 53) m,p-xylene                  | 9.18  | 106  | 157871   | 5.455  | ug/L  | 95       |
| 54) o-xylene                    | 9.59  | 106  | 152377   | 5.564  | ug/L  | 96       |
| 55) Styrene                     | 9.60  | 104  | 254318   | 5.557  | ug/L  | 99       |
| 56) Isopropylbenzene            | 9.97  | 105  | 402353   | 5.493  | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.29 | 83   | 67017    | 5.222  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 10.32 | 75   | 50183    | 5.333  | ug/L  | 99       |
| 61) Bromoform                   | 9.77  | 173  | 36710    | 5.089  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene         | 11.22 | 146  | 192675   | 5.173  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.31 | 146  | 190454   | 5.130  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 11.69 | 146  | 176170   | 5.155  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.48 | 75   | 10837    | 4.981  | ug/L  | 93       |
| 67) 1,3,5-Trichlorobenzene      | 12.69 | 180  | 149749   | 5.324  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.31 | 180  | 114562   | 5.480  | ug/L  | 99       |
| 69) Naphthalene                 | 13.55 | 128  | 173798   | 5.751  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 13.79 | 180  | 109870   | 5.565  | ug/L  | 98       |

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

