

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV071420\  
 Data File : VV017477.D  
 Acq On : 14 Jul 2020 11:34  
 Operator : SY/MD  
 Sample : VSTDICV005  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Jul 15 03:12:31 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR071420WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Jul 15 02:49:58 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 159391   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 152601   | 5.00 | ug/L  | 0.00     |
| 61) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 85680    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.31   | 65    | 40890    | 4.41     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 88.20% |
| 7) Chloroethane-d5             | 1.58   | 69    | 33273    | 4.51     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 90.20% |
| 11) 1,1-Dichloroethene-d2      | 2.12   | 63    | 91434    | 4.51     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 90.20% |
| 20) 2-Butanone-d5              | 3.96   | 46    | 74960    | 39.40    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 78.80% |
| 24) Chloroform-d               | 4.37   | 84    | 94741    | 4.55     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 91.00% |
| 26) 1,2-Dichloroethane-d4      | 5.06   | 65    | 51620    | 4.67     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 93.40% |
| 32) Benzene-d6                 | 5.07   | 84    | 162708   | 4.61     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 92.20% |
| 36) 1,2-Dichloropropane-d6     | 6.09   | 67    | 44320    | 4.54     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 90.80% |
| 41) Toluene-d8                 | 7.33   | 98    | 161238   | 4.69     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 93.80% |
| 45) trans-1,3-Dichloropropene- | 7.64   | 79    | 22368    | 4.71     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 94.20% |
| 48) 2-Hexanone-d5              | 8.11   | 63    | 68455    | 48.31    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 96.62% |
| 59) 1,1,2,2-Tetrachloroethane- | 10.24  | 84    | 32457    | 4.69     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 93.80% |
| 65) 1,2-Dichlorobenzene-d4     | 11.65  | 152   | 66474    | 4.54     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 90.80% |

## Target Compounds

|                                |      |     |        |        | Ovalue    |
|--------------------------------|------|-----|--------|--------|-----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 96413  | 5.126  | ug/L 97   |
| 3) Chloromethane               | 1.25 | 50  | 63812  | 4.963  | ug/L 99   |
| 5) Vinyl chloride              | 1.32 | 62  | 66373  | 5.159  | ug/L 99   |
| 6) Bromomethane                | 1.53 | 94  | 39881  | 5.136  | ug/L 97   |
| 8) Chloroethane                | 1.60 | 64  | 37700  | 5.069  | ug/L 96   |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 120266 | 5.113  | ug/L 98   |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 54346  | 5.023  | ug/L 100  |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 48271  | 5.034  | ug/L 88   |
| 13) Acetone                    | 2.23 | 43  | 76888m | 55.668 | ug/L      |
| 14) Carbon disulfide           | 2.31 | 76  | 152706 | 5.144  | ug/L 98   |
| 15) Methyl Acetate             | 2.46 | 43  | 16226  | 6.082  | ug/L 95   |
| 16) Methylene chloride         | 2.52 | 84  | 48380  | 4.189  | ug/L 96   |
| 17) Methyl tert-butyl Ether    | 2.79 | 73  | 121211 | 5.087  | ug/L 97   |
| 18) trans-1,2-Dichloroethene   | 2.78 | 96  | 50747  | 4.935  | ug/L 96   |
| 19) 1,1-Dichloroethane         | 3.21 | 63  | 100843 | 5.074  | ug/L 97   |
| 21) 2-Butanone                 | 4.05 | 43  | 98606  | 46.187 | ug/L 94   |
| 22) cis-1,2-Dichloroethene     | 3.94 | 96  | 57378  | 5.147  | ug/L # 99 |

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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 4.27  | 128  | 25862    | 5.152  | ug/L  | 98       |
| 25) Chloroform                 | 4.40  | 83   | 109510   | 5.107  | ug/L  | 98       |
| 27) 1,2-Dichloroethane         | 5.16  | 62   | 72224    | 5.149  | ug/L  | 100      |
| 29) 1,1,1-Trichloroethane      | 4.63  | 97   | 111243   | 5.156  | ug/L  | 99       |
| 30) Cyclohexane                | 4.69  | 56   | 83496    | 5.083  | ug/L  | 100      |
| 31) Carbon tetrachloride       | 4.85  | 117  | 102054   | 5.114  | ug/L  | 99       |
| 33) Benzene                    | 5.12  | 78   | 211615   | 5.212  | ug/L  | 100      |
| 34) Trichloroethene            | 5.94  | 95   | 63258    | 5.103  | ug/L  | 95       |
| 35) Methylcyclohexane          | 6.15  | 83   | 97652    | 5.353  | ug/L  | 97       |
| 37) 1,2-Dichloropropane        | 6.20  | 63   | 45753    | 4.867  | ug/L  | 99       |
| 38) Bromodichloromethane       | 6.53  | 83   | 75235    | 5.167  | ug/L  | 97       |
| 39) cis-1,3-Dichloropropene    | 7.05  | 75   | 78554    | 5.195  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone       | 7.25  | 43   | 266817   | 53.705 | ug/L  | 99       |
| 42) Toluene                    | 7.41  | 91   | 236024   | 5.264  | ug/L  | 100      |
| 43) 1,3,5-Trimethylbenzene     | 10.56 | 105  | 240672   | 5.408  | ug/L  | 99       |
| 44) 1,2,4-Trimethylbenzene     | 10.94 | 105  | 241305   | 5.444  | ug/L  | 98       |
| 46) trans-1,3-Dichloropropene  | 7.67  | 75   | 72076    | 5.416  | ug/L  | 98       |
| 47) 1,1,2-Trichloroethane      | 7.86  | 97   | 35751    | 5.090  | ug/L  | 93       |
| 49) Tetrachloroethene          | 8.00  | 164  | 55035    | 5.216  | ug/L  | 98       |
| 50) 2-Hexanone                 | 8.16  | 43   | 190062   | 52.070 | ug/L  | 99       |
| 51) Dibromochloromethane       | 8.27  | 129  | 49851    | 5.151  | ug/L  | 99       |
| 52) 1,2-Dibromoethane          | 8.37  | 107  | 35558    | 5.168  | ug/L  | 97       |
| 53) Chlorobenzene              | 8.90  | 112  | 156616   | 5.215  | ug/L  | 98       |
| 54) Ethylbenzene               | 9.03  | 91   | 263225   | 5.130  | ug/L  | 100      |
| 55) m,p-xylene                 | 9.16  | 106  | 102196   | 5.267  | ug/L  | 93       |
| 56) o-xylene                   | 9.56  | 106  | 101367   | 5.401  | ug/L  | 92       |
| 57) Styrene                    | 9.58  | 104  | 173839   | 5.503  | ug/L  | 100      |
| 58) Isopropylbenzene           | 9.95  | 105  | 281377   | 5.295  | ug/L  | 99       |
| 60) 1,1,2,2-Tetrachloroethane  | 10.26 | 83   | 38539    | 5.433  | ug/L  | 90       |
| 62) Bromoform                  | 9.75  | 173  | 28482    | 5.168  | ug/L  | 98       |
| 63) 1,3-Dichlorobenzene        | 11.20 | 146  | 137224   | 5.151  | ug/L  | 99       |
| 64) 1,4-Dichlorobenzene        | 11.29 | 146  | 138232   | 5.228  | ug/L  | 97       |
| 66) 1,2-Dichlorobenzene        | 11.67 | 146  | 123238   | 5.105  | ug/L  | 98       |
| 67) 1,2-Dibromo-3-chloropropan | 12.45 | 75   | 7616     | 5.121  | ug/L  | 91       |
| 68) 1,3,5-Trichlorobenzene     | 12.67 | 180  | 134869   | 6.225  | ug/L  | 99       |
| 69) 1,2,4-trichlorobenzene     | 13.29 | 180  | 94586    | 5.317  | ug/L  | 99       |
| 70) Naphthalene                | 13.53 | 128  | 138916   | 5.549  | ug/L  | 99       |
| 71) 1,2,3-Trichlorobenzene     | 13.77 | 180  | 84919    | 5.534  | ug/L  | 97       |

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

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