

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU060419\  
 Data File : VU032426.D  
 Acq On : 04 Jun 2019 14:29  
 Operator : JC/SP  
 Sample : VSTDICV005  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VICV14

Quant Time: Jun 04 23:08:22 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR060419WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Jun 04 22:54:09 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 107993   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 101459   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 52908    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40   | 65    | 33010    | 4.70     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 94.00%  |
| 7) Chloroethane-d5             | 1.68   | 69    | 27334    | 4.55     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 91.00%  |
| 11) 1,1-Dichloroethene-d2      | 2.27   | 63    | 66708    | 4.68     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 93.60%  |
| 20) 2-Butanone-d5              | 4.20   | 46    | 98754    | 50.40    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 100.80% |
| 24) Chloroform-d               | 4.64   | 84    | 59653    | 4.70     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 94.00%  |
| 26) 1,2-Dichloroethane-d4      | 5.31   | 65    | 31513    | 4.80     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 96.00%  |
| 32) Benzene-d6                 | 5.33   | 84    | 117183   | 4.65     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 93.00%  |
| 36) 1,2-Dichloropropane-d6     | 6.32   | 67    | 36701    | 4.72     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 94.40%  |
| 41) Toluene-d8                 | 7.56   | 98    | 110234   | 4.73     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 94.60%  |
| 43) trans-1,3-Dichloropropene- | 7.85   | 79    | 16440    | 4.95     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 99.00%  |
| 46) 2-Hexanone-d5              | 8.31   | 63    | 82812    | 49.75    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 99.50%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43  | 84    | 31522    | 4.81     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 96.20%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86  | 152   | 44612    | 4.69     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 93.80%  |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.20 | 85  | 44216  | 4.772  | ug/L 99  |
| 3) Chloromethane               | 1.32 | 50  | 45230  | 4.706  | ug/L 97  |
| 5) Vinyl chloride              | 1.40 | 62  | 46275  | 4.899  | ug/L 99  |
| 6) Bromomethane                | 1.63 | 94  | 28252  | 4.903  | ug/L 99  |
| 8) Chloroethane                | 1.70 | 64  | 28158  | 4.666  | ug/L 99  |
| 9) Trichlorofluoromethane      | 1.88 | 101 | 67310  | 4.979  | ug/L 98  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.28 | 101 | 34106  | 4.745  | ug/L 98  |
| 12) 1,1-Dichloroethene         | 2.28 | 96  | 32856  | 4.789  | ug/L 98  |
| 13) Acetone                    | 2.34 | 43  | 73645  | 48.422 | ug/L 99  |
| 14) Carbon disulfide           | 2.47 | 76  | 106279 | 4.837  | ug/L 99  |
| 15) Methyl Acetate             | 2.62 | 43  | 18411  | 4.412  | ug/L 98  |
| 16) Methylene chloride         | 2.69 | 84  | 35447  | 4.658  | ug/L 98  |
| 17) Methyl tert-butyl Ether    | 3.00 | 73  | 95234  | 4.746  | ug/L 100 |
| 18) trans-1,2-Dichloroethene   | 2.97 | 96  | 35593  | 4.808  | ug/L 97  |
| 19) 1,1-Dichloroethane         | 3.44 | 63  | 64009  | 4.830  | ug/L 97  |
| 21) 2-Butanone                 | 4.29 | 43  | 114432 | 51.732 | ug/L 99  |
| 22) cis-1,2-Dichloroethene     | 4.22 | 96  | 39999  | 4.774  | ug/L 99  |

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| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 4.54  | 128  | 17965    | 4.982  | ug/L  | 97       |
| 25) Chloroform                  | 4.67  | 83   | 65943    | 4.871  | ug/L  | 96       |
| 27) 1,2-Dichloroethane          | 5.40  | 62   | 42842    | 4.815  | ug/L  | 99       |
| 29) 1,1,1-Trichloroethane       | 4.90  | 97   | 58864    | 4.761  | ug/L  | 100      |
| 30) Cyclohexane                 | 4.98  | 56   | 62059    | 4.749  | ug/L  | 99       |
| 31) Carbon tetrachloride        | 5.12  | 117  | 53999    | 4.804  | ug/L  | 100      |
| 33) Benzene                     | 5.38  | 78   | 144437   | 4.828  | ug/L  | 100      |
| 34) Trichloroethene             | 6.18  | 95   | 39051    | 4.538  | ug/L  | 98       |
| 35) Methylcyclohexane           | 6.41  | 83   | 64650    | 4.672  | ug/L  | 98       |
| 37) 1,2-Dichloropropane         | 6.43  | 63   | 37433    | 4.836  | ug/L  | 98       |
| 38) Bromodichloromethane        | 6.75  | 83   | 48235    | 4.849  | ug/L  | 98       |
| 39) cis-1,3-Dichloropropene     | 7.27  | 75   | 58942    | 4.960  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone        | 7.46  | 43   | 272542   | 49.483 | ug/L  | 99       |
| 42) Toluene                     | 7.63  | 91   | 160474   | 4.813  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene   | 7.88  | 75   | 47025    | 4.957  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane       | 8.06  | 97   | 27242    | 4.838  | ug/L  | 98       |
| 47) Tetrachloroethene           | 8.22  | 164  | 34131    | 5.041  | ug/L  | 93       |
| 48) 2-Hexanone                  | 8.36  | 43   | 196351   | 49.886 | ug/L  | 98       |
| 49) Dibromochloromethane        | 8.47  | 129  | 35035    | 4.864  | ug/L  | 99       |
| 50) 1,2-Dibromoethane           | 8.58  | 107  | 27181    | 4.844  | ug/L  | 93       |
| 51) Chlorobenzene               | 9.12  | 112  | 102889   | 4.922  | ug/L  | 99       |
| 52) Ethylbenzene                | 9.24  | 91   | 177216   | 4.823  | ug/L  | 100      |
| 53) m,p-Xylene                  | 9.37  | 106  | 68283    | 4.902  | ug/L  | 97       |
| 54) o-Xylene                    | 9.77  | 106  | 66869    | 4.810  | ug/L  | 97       |
| 55) Styrene                     | 9.79  | 104  | 112766   | 4.931  | ug/L  | 99       |
| 56) Isopropylbenzene            | 10.16 | 105  | 179184   | 4.886  | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.45 | 83   | 34512    | 4.792  | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane      | 10.49 | 75   | 24712    | 4.862  | ug/L  | 99       |
| 61) Bromoform                   | 9.95  | 173  | 20308    | 4.777  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene         | 11.41 | 146  | 85474    | 4.949  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.50 | 146  | 85579    | 4.874  | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene         | 11.87 | 146  | 81523    | 4.885  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.65 | 75   | 5921     | 5.053  | ug/L  | 91       |
| 67) 1,3,5-Trichlorobenzene      | 12.88 | 180  | 70692    | 5.107  | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene      | 13.50 | 180  | 60265    | 5.399  | ug/L  | 98       |
| 69) Naphthalene                 | 13.74 | 128  | 114900   | 5.872  | ug/L  | 98       |
| 70) 1,2,3-Trichlorobenzene      | 13.98 | 180  | 57219    | 5.148  | ug/L  | 97       |

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

