

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061919\  
 Data File : VU032885.D  
 Acq On : 20 Jun 2019 02:31  
 Operator : JC/SP  
 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 45 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00530

Quant Time: Jun 20 07:30:42 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR060419WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Jun 20 07:24:34 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 96223    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.08  | 117  | 96185    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 52465    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40   | 65    | 23060    | 3.69     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 73.80%  |
| 7) Chloroethane-d5             | 1.68   | 69    | 21420    | 4.01     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 80.20%  |
| 11) 1,1-Dichloroethene-d2      | 2.27   | 63    | 57289    | 4.51     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 90.20%  |
| 20) 2-Butanone-d5              | 4.18   | 46    | 95658    | 54.79    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 109.58% |
| 24) Chloroform-d               | 4.64   | 84    | 57924    | 5.12     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 102.40% |
| 26) 1,2-Dichloroethane-d4      | 5.31   | 65    | 32483    | 5.55     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 111.00% |
| 32) Benzene-d6                 | 5.33   | 84    | 103014   | 4.31     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 86.20%  |
| 36) 1,2-Dichloropropane-d6     | 6.32   | 67    | 34281    | 4.65     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 93.00%  |
| 41) Toluene-d8                 | 7.56   | 98    | 97179    | 4.40     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 88.00%  |
| 43) trans-1,3-Dichloropropene- | 7.85   | 79    | 13727    | 4.36     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 87.20%  |
| 46) 2-Hexanone-d5              | 8.31   | 63    | 71869    | 45.54    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 91.08%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43  | 84    | 31600    | 5.09     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 101.80% |
| 64) 1,2-Dichlorobenzene-d4     | 11.85  | 152   | 42258    | 4.48     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 89.60%  |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.20 | 85  | 44432  | 5.382  | ug/L 99  |
| 3) Chloromethane               | 1.32 | 50  | 38014  | 4.439  | ug/L 100 |
| 5) Vinyl chloride              | 1.40 | 62  | 41832  | 4.970  | ug/L 99  |
| 6) Bromomethane                | 1.62 | 94  | 19324  | 3.764  | ug/L 96  |
| 8) Chloroethane                | 1.69 | 64  | 25495  | 4.741  | ug/L 99  |
| 9) Trichlorofluoromethane      | 1.88 | 101 | 61933  | 5.142  | ug/L 99  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.28 | 101 | 31402  | 4.903  | ug/L 99  |
| 12) 1,1-Dichloroethene         | 2.28 | 96  | 29081  | 4.757  | ug/L 99  |
| 13) Acetone                    | 2.32 | 43  | 70465  | 51.999 | ug/L 94  |
| 14) Carbon disulfide           | 2.47 | 76  | 91542  | 4.676  | ug/L 99  |
| 15) Methyl Acetate             | 2.61 | 43  | 17297  | 4.652  | ug/L 97  |
| 16) Methylene chloride         | 2.69 | 84  | 33254  | 4.905  | ug/L 93  |
| 17) Methyl tert-butyl Ether    | 3.00 | 73  | 86320  | 4.828  | ug/L 99  |
| 18) trans-1,2-Dichloroethene   | 2.97 | 96  | 31420  | 4.763  | ug/L 92  |
| 19) 1,1-Dichloroethane         | 3.43 | 63  | 64567  | 5.469  | ug/L 97  |
| 21) 2-Butanone                 | 4.27 | 43  | 106958 | 54.268 | ug/L 95  |
| 22) cis-1,2-Dichloroethene     | 4.22 | 96  | 37207  | 4.984  | ug/L 90  |

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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 4.54  | 128  | 16901    | 5.260  | ug/L  | 92       |
| 25) Chloroform                 | 4.67  | 83   | 65671    | 5.445  | ug/L  | 95       |
| 27) 1,2-Dichloroethane         | 5.40  | 62   | 44768    | 5.647  | ug/L  | 98       |
| 29) 1,1,1-Trichloroethane      | 4.90  | 97   | 56103    | 4.787  | ug/L  | 96       |
| 30) Cyclohexane                | 4.98  | 56   | 53797    | 4.343  | ug/L  | 96       |
| 31) Carbon tetrachloride       | 5.12  | 117  | 52872    | 4.961  | ug/L  | 99       |
| 33) Benzene                    | 5.38  | 78   | 134866   | 4.756  | ug/L  | 100      |
| 34) Trichloroethene            | 6.18  | 95   | 36598    | 4.487  | ug/L  | 100      |
| 35) Methylcyclohexane          | 6.40  | 83   | 55059    | 4.197  | ug/L  | 96       |
| 37) 1,2-Dichloropropane        | 6.42  | 63   | 37171    | 5.066  | ug/L  | 99       |
| 38) Bromodichloromethane       | 6.75  | 83   | 47043    | 4.988  | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene    | 7.26  | 75   | 51293    | 4.553  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone       | 7.46  | 43   | 264997   | 50.751 | ug/L  | 95       |
| 42) Toluene                    | 7.63  | 91   | 150691   | 4.768  | ug/L  | 97       |
| 44) trans-1,3-Dichloropropene  | 7.87  | 75   | 42373    | 4.711  | ug/L  | 97       |
| 45) 1,1,2-Trichloroethane      | 8.06  | 97   | 26107    | 4.890  | ug/L  | 97       |
| 47) Tetrachloroethene          | 8.22  | 164  | 29481    | 4.593  | ug/L  | 98       |
| 48) 2-Hexanone                 | 8.36  | 43   | 189521   | 50.791 | ug/L  | 97       |
| 49) Dibromochloromethane       | 8.47  | 129  | 32681    | 4.786  | ug/L  | 96       |
| 50) 1,2-Dibromoethane          | 8.58  | 107  | 25174    | 4.732  | ug/L  | 95       |
| 51) Chlorobenzene              | 9.11  | 112  | 95387    | 4.814  | ug/L  | 98       |
| 52) Ethylbenzene               | 9.24  | 91   | 161093   | 4.625  | ug/L  | 100      |
| 53) m,p-Xylene                 | 9.37  | 106  | 61251    | 4.638  | ug/L  | 99       |
| 54) o-Xylene                   | 9.77  | 106  | 59550    | 4.519  | ug/L  | 99       |
| 55) Styrene                    | 9.79  | 104  | 103257   | 4.762  | ug/L  | 97       |
| 56) Isopropylbenzene           | 10.16 | 105  | 160472   | 4.616  | ug/L  | 97       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.45 | 83   | 34424    | 5.042  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.49 | 75   | 24788    | 5.145  | ug/L  | 96       |
| 61) Bromoform                  | 9.95  | 173  | 18465    | 4.380  | ug/L  | 97       |
| 62) 1,3-Dichlorobenzene        | 11.41 | 146  | 78941    | 4.609  | ug/L  | 97       |
| 63) 1,4-Dichlorobenzene        | 11.50 | 146  | 80677    | 4.634  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 11.87 | 146  | 78902    | 4.768  | ug/L  | 100      |
| 66) 1,2-Dibromo-3-chloropropan | 12.65 | 75   | 6266     | 5.393  | ug/L  | 89       |
| 67) 1,3,5-Trichlorobenzene     | 12.88 | 180  | 65164    | 4.747  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.50 | 180  | 53345    | 4.820  | ug/L  | 95       |
| 69) Naphthalene                | 13.74 | 128  | 89398    | 4.608  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.98 | 180  | 51342    | 4.658  | ug/L  | 98       |

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

