

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091618\  
 Data File : VU026773.D  
 Acq On : 15 Sep 2018 12:46  
 Operator : MD/SY  
 Sample : VSTD02044  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD02044

Quant Time: Sep 17 04:18:04 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR091618WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Mon Sep 17 04:13:24 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 137584   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 124317   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 70575    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |        |      |      |
|--------------------------------|-------|-----|--------|--------|------|------|
| 4) Vinyl Chloride-d3           | 1.40  | 65  | 200782 | 11.97  | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.68  | 69  | 166715 | 13.07  | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.28  | 63  | 383373 | 13.33  | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 4.22  | 46  | 457274 | 143.77 | ug/L | 0.00 |
| 24) Chloroform-d               | 4.65  | 84  | 347893 | 17.24  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.31  | 65  | 174684 | 14.02  | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.34  | 84  | 690023 | 16.73  | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.33  | 67  | 221488 | 16.28  | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.57  | 98  | 669574 | 17.49  | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 7.85  | 79  | 86919  | 17.55  | ug/L | 0.00 |
| 46) 2-Hexanone-d5              | 8.32  | 63  | 399867 | 185.83 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43 | 84  | 173245 | 16.38  | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 11.86 | 152 | 259898 | 16.34  | ug/L | 0.00 |

## Target Compounds

|                                |      |     |         |        |      | Qvalue |
|--------------------------------|------|-----|---------|--------|------|--------|
| 2) Dichlorodifluoromethane     | 1.21 | 85  | 290811  | 21.45  | ug/L | 99     |
| 3) Chloromethane               | 1.33 | 50  | 289807  | 17.10  | ug/L | 99     |
| 5) Vinyl chloride              | 1.40 | 62  | 296707  | 17.39  | ug/L | 100    |
| 6) Bromomethane                | 1.63 | 94  | 159755  | 19.30  | ug/L | 97     |
| 8) Chloroethane                | 1.70 | 64  | 179799  | 17.63  | ug/L | 97     |
| 9) Trichlorofluoromethane      | 1.88 | 101 | 366598  | 17.88  | ug/L | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.29 | 101 | 215297  | 17.88  | ug/L | 98     |
| 12) 1,1-Dichloroethene         | 2.29 | 96  | 201950  | 18.33  | ug/L | 89     |
| 13) Acetone                    | 2.35 | 43  | 364945  | 150.13 | ug/L | 100    |
| 14) Carbon disulfide           | 2.48 | 76  | 698652  | 17.31  | ug/L | 100    |
| 15) Methyl Acetate             | 2.63 | 43  | 97137   | 14.41  | ug/L | 100    |
| 16) Methylene chloride         | 2.70 | 84  | 215823  | 15.72  | ug/L | 98     |
| 17) Methyl tert-butyl Ether    | 3.01 | 73  | 490851  | 17.82  | ug/L | 100    |
| 18) trans-1,2-Dichloroethene   | 2.98 | 96  | 217044  | 17.89  | ug/L | 97     |
| 19) 1,1-Dichloroethane         | 3.45 | 63  | 407193  | 16.52  | ug/L | 99     |
| 21) 2-Butanone                 | 4.30 | 43  | 645676  | 198.75 | ug/L | 99     |
| 22) cis-1,2-Dichloroethene     | 4.22 | 96  | 236297  | 18.91  | ug/L | 97     |
| 23) Bromochloromethane         | 4.55 | 128 | 99367   | 19.50  | ug/L | 95     |
| 25) Chloroform                 | 4.67 | 83  | 392854  | 16.36  | ug/L | 99     |
| 27) 1,2-Dichloroethane         | 5.41 | 62  | 253982  | 18.68  | ug/L | 99     |
| 29) 1,1,1-Trichloroethane      | 4.91 | 97  | 343789  | 21.33  | ug/L | 100    |
| 30) Cyclohexane                | 4.99 | 56  | 402322  | 23.98  | ug/L | 100    |
| 31) Carbon tetrachloride       | 5.13 | 117 | 305708  | 21.12  | ug/L | 99     |
| 33) Benzene                    | 5.39 | 78  | 879493  | 20.79  | ug/L | 100    |
| 34) Trichloroethene            | 6.18 | 95  | 230928  | 20.19  | ug/L | 98     |
| 35) Methylcyclohexane          | 6.41 | 83  | 403370  | 24.43  | ug/L | 97     |
| 37) 1,2-Dichloropropane        | 6.44 | 63  | 239825  | 20.61  | ug/L | 100    |
| 38) Bromodichloromethane       | 6.76 | 83  | 289950  | 21.10  | ug/L | 99     |
| 39) cis-1,3-Dichloropropene    | 7.27 | 75  | 349903  | 23.44  | ug/L | 99     |
| 40) 4-Methyl-2-pentanone       | 7.48 | 43  | 1498219 | 226.26 | ug/L | 98     |

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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 42) Toluene                    | 7.64  | 91   | 973115   | 22.66  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene  | 7.88  | 75   | 284754   | 23.33  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane      | 8.07  | 97   | 158847   | 21.48  | ug/L  | 99       |
| 47) Tetrachloroethene          | 8.23  | 164  | 201937   | 23.07  | ug/L  | 96       |
| 48) 2-Hexanone                 | 8.38  | 43   | 1081453  | 222.26 | ug/L  | 99       |
| 49) Dibromochloromethane       | 8.48  | 129  | 204662   | 22.54  | ug/L  | 98       |
| 50) 1,2-Dibromoethane          | 8.59  | 107  | 151727   | 21.74  | ug/L  | 99       |
| 51) Chlorobenzene              | 9.12  | 112  | 621305   | 22.10  | ug/L  | 99       |
| 52) Ethylbenzene               | 9.25  | 91   | 1078258  | 23.86  | ug/L  | 99       |
| 53) m,p-xylene                 | 9.38  | 106  | 418432   | 24.82  | ug/L  | 99       |
| 54) o-xylene                   | 9.78  | 106  | 405661   | 25.44  | ug/L  | 100      |
| 55) Styrene                    | 9.79  | 104  | 716363   | 25.49  | ug/L  | 99       |
| 56) Isopropylbenzene           | 10.17 | 105  | 1077492  | 25.55  | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.46 | 83   | 202664   | 20.97  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.49 | 75   | 144824   | 21.33  | ug/L  | 99       |
| 61) Bromoform                  | 9.96  | 173  | 120485   | 20.73  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene        | 11.42 | 146  | 499639   | 21.46  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene        | 11.51 | 146  | 525699   | 21.20  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 11.88 | 146  | 498172   | 21.47  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.66 | 75   | 31766    | 20.81  | ug/L  | 95       |
| 67) 1,3,5-Trichlorobenzene     | 12.89 | 180  | 427815   | 21.85  | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene     | 13.50 | 180  | 364230   | 23.19  | ug/L  | 98       |
| 69) Naphthalene                | 13.74 | 128  | 612489   | 26.02  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.99 | 180  | 350358   | 23.98  | ug/L  | 100      |

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

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