

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U102020\  
 Data File : VU040840.D  
 Acq On : 20 Oct 2020 11:23  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00520

Quant Time: Oct 20 23:51:37 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR100820WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Oct 20 17:50:00 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 127491   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 131359   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 70461    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.60   | 65    | 44354    | 4.20     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 84.00%  |
| 7) Chloroethane-d5             | 1.92   | 69    | 37293    | 4.58     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 91.60%  |
| 11) 1,1-Dichloroethene-d2      | 2.58   | 63    | 93573    | 4.53     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 90.60%  |
| 20) 2-Butanone-d5              | 4.65   | 46    | 166725   | 49.32    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 98.64%  |
| 24) Chloroform-d               | 5.08   | 84    | 88047    | 4.75     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 95.00%  |
| 26) 1,2-Dichloroethane-d4      | 5.72   | 65    | 52440    | 4.64     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 92.80%  |
| 32) Benzene-d6                 | 5.74   | 84    | 163668   | 4.62     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 92.40%  |
| 36) 1,2-Dichloropropane-d6     | 6.70   | 67    | 53771    | 4.57     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 91.40%  |
| 41) Toluene-d8                 | 7.90   | 98    | 150622   | 4.75     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 95.00%  |
| 43) trans-1,3-Dichloropropene- | 8.18   | 79    | 22539    | 4.52     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 90.40%  |
| 46) 2-Hexanone-d5              | 8.64   | 63    | 129530   | 50.45    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 100.90% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.75  | 84    | 52098    | 4.94     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 98.80%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 59940    | 4.59     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 91.80%  |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 1.39 | 85   | 60639    | 5.249  | ug/L  | 99     |
| 3) Chloromethane               | 1.53 | 50   | 51930    | 4.807  | ug/L  | 97     |
| 5) Vinyl chloride              | 1.61 | 62   | 59480    | 5.228  | ug/L  | 91     |
| 6) Bromomethane                | 1.87 | 94   | 22924    | 3.711  | ug/L  | 96     |
| 8) Chloroethane                | 1.94 | 64   | 38042    | 5.252  | ug/L  | 93     |
| 9) Trichlorofluoromethane      | 2.15 | 101  | 81509    | 4.990  | ug/L  | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.59 | 101  | 48686    | 4.591  | ug/L  | 97     |
| 12) 1,1-Dichloroethene         | 2.59 | 96   | 43622    | 4.795  | ug/L  | 92     |
| 13) Acetone                    | 2.66 | 43   | 117628   | 44.889 | ug/L  | 99     |
| 14) Carbon disulfide           | 2.81 | 76   | 153081   | 6.012  | ug/L  | 99     |
| 15) Methyl Acetate             | 2.97 | 43   | 27854    | 4.655  | ug/L  | 99     |
| 16) Methylene chloride         | 3.06 | 84   | 50286    | 4.305  | ug/L  | 94     |
| 17) Methyl tert-butyl Ether    | 3.38 | 73   | 109876   | 4.272  | ug/L  | 99     |
| 18) trans-1,2-Dichloroethene   | 3.37 | 96   | 45746    | 4.804  | ug/L  | 98     |
| 19) 1,1-Dichloroethane         | 3.89 | 63   | 90676    | 4.604  | ug/L  | 99     |
| 21) 2-Butanone                 | 4.73 | 43   | 186784   | 45.720 | ug/L  | 98     |
| 22) cis-1,2-Dichloroethene     | 4.68 | 96   | 47523    | 4.628  | ug/L  | 92     |

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 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00520

Quant Time: Oct 20 23:51:37 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR100820WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Oct 20 17:50:00 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 4.99  | 128  | 23615    | 4.629  | ug/L  | 98       |
| 25) Chloroform                  | 5.11  | 83   | 94264    | 4.688  | ug/L  | 95       |
| 27) 1,2-Dichloroethane          | 5.81  | 62   | 65369    | 4.593  | ug/L  | 97       |
| 29) 1,1,1-Trichloroethane       | 5.33  | 97   | 77628    | 4.398  | ug/L  | 98       |
| 30) Cyclohexane                 | 5.40  | 56   | 77855    | 4.786  | ug/L  | 100      |
| 31) Carbon tetrachloride        | 5.54  | 117  | 68837    | 4.557  | ug/L  | 99       |
| 33) Benzene                     | 5.79  | 78   | 192750   | 4.567  | ug/L  | 100      |
| 34) Trichloroethene             | 6.55  | 95   | 48360    | 4.421  | ug/L  | 95       |
| 35) Methylcyclohexane           | 6.77  | 83   | 75177    | 4.846  | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.80  | 63   | 50936    | 4.332  | ug/L  | 99       |
| 38) Bromodichloromethane        | 7.11  | 83   | 66113    | 4.398  | ug/L  | 96       |
| 39) cis-1,3-Dichloropropene     | 7.61  | 75   | 71029    | 4.421  | ug/L  | 95       |
| 40) 4-Methyl-2-pentanone        | 7.80  | 43   | 420592   | 44.865 | ug/L  | 100      |
| 42) Toluene                     | 7.97  | 91   | 202666   | 4.713  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene   | 8.21  | 75   | 67090    | 4.536  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane       | 8.40  | 97   | 38503    | 4.372  | ug/L  | 98       |
| 47) Tetrachloroethene           | 8.56  | 164  | 37122    | 4.756  | ug/L  | 97       |
| 48) 2-Hexanone                  | 8.69  | 43   | 326551   | 46.787 | ug/L  | 99       |
| 49) Dibromochloromethane        | 8.82  | 129  | 45281    | 4.469  | ug/L  | 91       |
| 50) 1,2-Dibromoethane           | 8.93  | 107  | 36800    | 4.405  | ug/L  | 95       |
| 51) Chlorobenzene               | 9.45  | 112  | 127519   | 4.502  | ug/L  | 97       |
| 52) Ethylbenzene                | 9.57  | 91   | 208941   | 4.490  | ug/L  | 100      |
| 53) m,p-Xylene                  | 9.69  | 106  | 81032    | 4.777  | ug/L  | 97       |
| 54) o-Xylene                    | 10.10 | 106  | 75378    | 4.621  | ug/L  | 99       |
| 55) Styrene                     | 10.11 | 104  | 136201   | 4.808  | ug/L  | 100      |
| 56) Isopropylbenzene            | 10.48 | 105  | 203304   | 4.629  | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.78 | 83   | 52310    | 4.524  | ug/L  | 97       |
| 59) 1,2,3-Trichloropropane      | 10.82 | 75   | 39855    | 4.614  | ug/L  | 99       |
| 61) Bromoform                   | 10.29 | 173  | 25251    | 4.181  | ug/L  | 97       |
| 62) 1,3-Dichlorobenzene         | 11.74 | 146  | 103696   | 4.496  | ug/L  | 98       |
| 63) 1,4-Dichlorobenzene         | 11.83 | 146  | 108682   | 4.570  | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene         | 12.21 | 146  | 100120   | 4.441  | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.99 | 75   | 8445     | 4.278  | ug/L  | 91       |
| 67) 1,3,5-Trichlorobenzene      | 13.21 | 180  | 70121    | 4.285  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.83 | 180  | 57282    | 4.531  | ug/L  | 97       |
| 69) Naphthalene                 | 14.08 | 128  | 94252    | 4.557  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 14.32 | 180  | 54346    | 4.629  | ug/L  | 100      |

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

