

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080618\  
 Data File : VX003865.D  
 Acq On : 06 Aug 2018 16:53  
 Operator : JC/MD  
 Sample : VSTDIC005  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC005

Manual Integrations  
 APPROVED

MMDadoda  
 8/7/2018 1:12:44 PM

Quant Time: Aug 07 07:14:22 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X080618W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 07 06:57:25 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 361640   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 530731   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 465692   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 241187   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.07  | 65   | 25646    | 5.50 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =    | 11.00% |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 20379    | 4.95 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =    | 9.90%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 79322    | 4.98 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =    | 9.96%  |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 23114    | 4.16 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =    | 8.32%  |          |

| Target Compounds              | R.T. | QIon | Response | Conc  | Units | Qvalue |
|-------------------------------|------|------|----------|-------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85   | 15766    | 4.44  | ug/l  | 98     |
| 3) Chloromethane              | 1.32 | 50   | 24114    | 4.15  | ug/l  | 97     |
| 4) Vinyl Chloride             | 1.40 | 62   | 23620    | 5.12  | ug/l  | 98     |
| 5) Bromomethane               | 1.64 | 94   | 17420    | 7.01  | ug/l  | 97     |
| 6) Chloroethane               | 1.72 | 64   | 16211    | 6.14  | ug/l  | 99     |
| 7) Trichlorofluoromethane     | 1.92 | 101  | 32245    | 5.45  | ug/l  | 100    |
| 8) Diethyl Ether              | 2.19 | 74   | 14812    | 5.75  | ug/l  | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.38 | 101  | 20687    | 5.53  | ug/l  | 97     |
| 10) Methyl Iodide             | 2.51 | 142  | 22846    | 4.57  | ug/l  | 99     |
| 11) Tert butyl alcohol        | 3.08 | 59   | 29926    | 29.04 | ug/l  | 99     |
| 12) 1,1-Dichloroethene        | 2.37 | 96   | 18627    | 5.14  | ug/l  | 97     |
| 13) Acrolein                  | 2.29 | 56   | 20425    | 26.02 | ug/l  | 96     |
| 14) Allyl chloride            | 2.73 | 41   | 37256    | 5.52  | ug/l  | 99     |
| 15) Acrylonitrile             | 3.15 | 53   | 68942    | 28.08 | ug/l  | 100    |
| 16) Acetone                   | 2.45 | 43   | 73876    | 29.35 | ug/l  | 98     |
| 17) Carbon Disulfide          | 2.56 | 76   | 54534    | 5.33  | ug/l  | 97     |
| 18) Methyl Acetate            | 2.78 | 43   | 31816    | 5.52  | ug/l  | 99     |
| 19) Methyl tert-butyl Ether   | 3.21 | 73   | 68446    | 5.47  | ug/l  | 99     |
| 20) Methylene Chloride        | 2.86 | 84   | 26668    | 6.07  | ug/l  | 97     |
| 21) trans-1,2-Dichloroethene  | 3.16 | 96   | 22155    | 5.55  | ug/l  | 96     |
| 22) Diisopropyl ether         | 3.87 | 45   | 66670    | 5.19  | ug/l  | 99     |
| 23) Vinyl Acetate             | 3.82 | 43   | 270754   | 25.42 | ug/l  | 99     |
| 24) 1,1-Dichloroethane        | 3.69 | 63   | 41060    | 5.64  | ug/l  | 99     |
| 25) 2-Butanone                | 4.71 | 43   | 105071   | 25.09 | ug/l  | 99     |
| 26) 2,2-Dichloropropane       | 4.59 | 77   | 29676    | 5.93  | ug/l  | 99     |
| 27) cis-1,2-Dichloroethene    | 4.59 | 96   | 23963    | 5.31  | ug/l  | 85     |
| 28) Bromochloromethane        | 5.02 | 49   | 17366    | 5.15  | ug/l  | 99     |
| 29) Tetrahydrofuran           | 5.17 | 42   | 53187    | 24.92 | ug/l  | 99     |
| 30) Chloroform                | 5.21 | 83   | 37948    | 5.08  | ug/l  | 97     |
| 31) Cyclohexane               | 5.57 | 56   | 32633    | 5.17  | ug/l  | 98     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97   | 31788    | 5.10  | ug/l  | 100    |
| 36) 1,1-Dichloropropene       | 5.80 | 75   | 28409    | 4.94  | ug/l  | 98     |
| 37) Ethyl Acetate             | 4.87 | 43   | 31734    | 4.85  | ug/l  | 97     |
| 38) Carbon Tetrachloride      | 5.78 | 117  | 26520    | 4.64  | ug/l  | 96     |

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 Sample : VSTDIC005  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC005

Manual Integrations  
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MMDadoda  
 8/7/2018 1:12:44 PM

Quant Time: Aug 07 07:14:22 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X080618W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 07 06:57:25 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 32205    | 4.90  | ug/l   | 98       |
| 40) Benzene                    | 6.14  | 78   | 88253    | 5.01  | ug/l   | 100      |
| 41) Methacrylonitrile          | 5.07  | 41   | 17691    | 5.01  | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 30173    | 5.12  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 6.47  | 43   | 46145    | 4.70  | ug/l   | 99       |
| 44) Trichloroethene            | 7.21  | 130  | 24153    | 5.08  | ug/l   | 89       |
| 45) 1,2-Dichloropropane        | 7.52  | 63   | 22367    | 4.91  | ug/l   | 99       |
| 46) Dibromomethane             | 7.67  | 93   | 14359    | 4.91  | ug/l   | 98       |
| 47) Bromodichloromethane       | 7.90  | 83   | 26270    | 4.75  | ug/l   | 98       |
| 48) Methyl methacrylate        | 7.78  | 41   | 22414    | 4.52  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 7.76  | 88   | 11228    | 95.63 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone       | 8.65  | 43   | 193059   | 23.60 | ug/l   | 99       |
| 52) Toluene                    | 8.79  | 92   | 54881    | 5.04  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 28113    | 4.65  | ug/l   | 94       |
| 54) cis-1,3-Dichloropropene    | 8.44  | 75   | 31609    | 4.79  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 9.22  | 97   | 22602    | 4.95  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 29135    | 4.55  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 37987    | 5.12  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.32  | 63   | 73100    | 22.35 | ug/l   | 99       |
| 59) 2-Hexanone                 | 9.50  | 43   | 142684   | 22.87 | ug/l   | 96       |
| 60) Dibromochloromethane       | 9.59  | 129  | 18791    | 4.23  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 9.68  | 107  | 21769    | 4.68  | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.34  | 164  | 22847    | 5.30  | ug/l   | 96       |
| 65) Chlorobenzene              | 10.14 | 112  | 60025    | 5.17  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.23 | 131  | 19547    | 4.80  | ug/l   | 98       |
| 67) Ethyl Benzene              | 10.25 | 91   | 91808    | 4.92  | ug/l   | 96       |
| 68) m/p-Xylenes                | 10.36 | 106  | 72657    | 9.98  | ug/l   | 96       |
| 69) o-Xylene                   | 10.70 | 106  | 31330    | 4.48  | ug/l   | 94       |
| 70) Styrene                    | 10.71 | 104  | 49329    | 4.29  | ug/l   | 98       |
| 71) Bromoform                  | 10.86 | 173  | 12352    | 3.73  | ug/l # | 100      |
| 73) Isopropylbenzene           | 11.02 | 105  | 82005    | 5.09  | ug/l   | 96       |
| 74) N-amyl acetate             | 6.47  | 43   | 46145    | 5.84  | ug/l # | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 30355    | 5.38  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.30 | 75   | 26031m   | 5.32  | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 22854    | 5.19  | ug/l   | 99       |
| 78) n-propylbenzene            | 11.36 | 91   | 93462    | 5.21  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 58269    | 5.32  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 67699    | 5.14  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.08 | 75   | 6975     | 4.45  | ug/l # | 84       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 67974    | 5.36  | ug/l   | 98       |
| 83) tert-Butylbenzene          | 11.77 | 119  | 67560    | 5.07  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 68793    | 5.07  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 11.95 | 105  | 81388    | 5.22  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.07 | 119  | 71135    | 5.06  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 42754    | 5.19  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 45073    | 5.30  | ug/l   | 97       |
| 89) n-Butylbenzene             | 12.39 | 91   | 58614    | 4.84  | ug/l   | 98       |
| 90) Hexachloroethane           | 12.60 | 117  | 10968    | 4.82  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 12.40 | 146  | 42400    | 5.05  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 5731     | 4.60  | ug/l   | 97       |

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Acq On : 06 Aug 2018 16:53  
Operator : JC/MD  
Sample : VSTDICC005  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC005

Manual Integrations  
APPROVED

MMDadoda  
8/7/2018 1:12:44 PM

Quant Time: Aug 07 07:14:22 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X080618W.M  
Quant Title : SW846 8260  
QLast Update : Tue Aug 07 06:57:25 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 28306    | 4.76 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.79 | 225  | 13840    | 4.81 | ug/l  | 99       |
| 95) Naphthalene            | 13.83 | 128  | 78473    | 4.55 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 29641    | 4.82 | ug/l  | 98       |

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

