

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102418\  
 Data File : VX005534.D  
 Acq On : 24 Oct 2018 11:32  
 Operator : JC/MD  
 Sample : VSTDIC020  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC020

Manual Integrations  
 APPROVED

MMDadoda  
 10/26/2018 11:53:06 AM

Quant Time: Oct 25 02:05:09 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X102418W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 25 01:45:25 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 219055   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 325115   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 290336   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 164225   | 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   | 53347    | 19.95 | ug/l   | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =     | 39.90% |          |
| 35) Dibromofluoromethane    | 5.50   | 113  | 42048    | 19.10 | ug/l   | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =     | 38.20% |          |
| 50) Toluene-d8              | 8.71   | 98   | 155168   | 19.62 | ug/l   | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =     | 39.24% |          |
| 62) 4-Bromofluorobenzene    | 11.14  | 95   | 56213    | 18.82 | ug/l   | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =     | 37.64% |          |

| Target Compounds              | R.T. | QIon | Response | Conc   | Units  | Qvalue |
|-------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85   | 47770    | 22.093 | ug/l   | 98     |
| 3) Chloromethane              | 1.32 | 50   | 55426    | 20.129 | ug/l   | 99     |
| 4) Vinyl Chloride             | 1.40 | 62   | 54834    | 20.253 | ug/l   | 98     |
| 5) Bromomethane               | 1.64 | 94   | 31392    | 18.633 | ug/l   | 100    |
| 6) Chloroethane               | 1.71 | 64   | 32966    | 19.060 | ug/l   | 99     |
| 7) Trichlorofluoromethane     | 1.92 | 101  | 76498    | 20.334 | ug/l   | 98     |
| 8) Diethyl Ether              | 2.19 | 74   | 28959    | 19.288 | ug/l   | 95     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.38 | 101  | 41936    | 19.428 | ug/l   | 98     |
| 10) Methyl Iodide             | 2.51 | 142  | 36327    | 17.811 | ug/l   | 98     |
| 11) Tert butyl alcohol        | 3.07 | 59   | 70453    | 97.911 | ug/l   | 99     |
| 12) 1,1-Dichloroethene        | 2.37 | 96   | 39422    | 19.172 | ug/l   | 95     |
| 13) Acrolein                  | 2.29 | 56   | 35737    | 97.362 | ug/l   | 99     |
| 14) Allyl chloride            | 2.73 | 41   | 89078    | 19.410 | ug/l   | 99     |
| 15) Acrylonitrile             | 3.15 | 53   | 150408   | 93.217 | ug/l   | 99     |
| 16) Acetone                   | 2.45 | 43   | 135986   | 96.241 | ug/l   | 93     |
| 17) Carbon Disulfide          | 2.57 | 76   | 122600   | 19.559 | ug/l   | 99     |
| 18) Methyl Acetate            | 2.78 | 43   | 71772    | 18.132 | ug/l   | 99     |
| 19) Methyl tert-butyl Ether   | 3.20 | 73   | 143086   | 19.507 | ug/l   | 99     |
| 20) Methylene Chloride        | 2.85 | 84   | 45632    | 19.283 | ug/l # | 85     |
| 21) trans-1,2-Dichloroethene  | 3.16 | 96   | 42222    | 18.806 | ug/l   | 97     |
| 22) Diisopropyl ether         | 3.86 | 45   | 146844   | 18.323 | ug/l # | 77     |
| 23) Vinyl Acetate             | 3.82 | 43   | 661000   | 93.652 | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 3.69 | 63   | 82195    | 18.865 | ug/l   | 99     |
| 25) 2-Butanone                | 4.70 | 43   | 213394   | 99.176 | ug/l   | 97     |
| 26) 2,2-Dichloropropane       | 4.58 | 77   | 64109    | 19.058 | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 4.59 | 96   | 46972    | 19.407 | ug/l   | 98     |
| 28) Bromochloromethane        | 5.02 | 49   | 41836    | 19.852 | ug/l   | 98     |
| 29) Tetrahydrofuran           | 5.16 | 42   | 134758   | 96.238 | ug/l   | 99     |
| 30) Chloroform                | 5.21 | 83   | 80178    | 19.673 | ug/l   | 98     |
| 31) Cyclohexane               | 5.57 | 56   | 72591    | 20.136 | ug/l # | 83     |
| 32) 1,1,1-Trichloroethane     | 5.50 | 97   | 69232    | 19.246 | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 5.80 | 75   | 59609    | 18.893 | ug/l   | 98     |
| 37) Ethyl Acetate             | 4.85 | 43   | 74493    | 18.502 | ug/l   | 98     |
| 38) Carbon Tetrachloride      | 5.79 | 117  | 62165    | 18.707 | ug/l   | 84     |

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Quant Time: Oct 25 02:05:09 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X102418W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 25 01:45:25 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 65820    | 18.892  | ug/l   | 96       |
| 40) Benzene                    | 6.14  | 78   | 173226   | 19.153  | ug/l   | 96       |
| 41) Methacrylonitrile          | 5.06  | 41   | 41348    | 18.437  | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 66575    | 19.376  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 6.47  | 43   | 111260   | 18.441  | ug/l   | 99       |
| 44) Trichloroethene            | 7.21  | 130  | 46890    | 19.031  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 7.52  | 63   | 45884    | 18.870  | ug/l   | 98       |
| 46) Dibromomethane             | 7.66  | 93   | 29598    | 18.846  | ug/l   | 99       |
| 47) Bromodichloromethane       | 7.90  | 83   | 57143    | 18.747  | ug/l   | 98       |
| 48) Methyl methacrylate        | 7.77  | 41   | 54648    | 18.593  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 7.75  | 88   | 23888    | 371.908 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 8.65  | 43   | 386285   | 95.268  | ug/l   | 99       |
| 52) Toluene                    | 8.79  | 92   | 107050   | 19.475  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 62309    | 18.914  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 8.44  | 75   | 69060    | 19.471  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 9.22  | 97   | 44230    | 19.085  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 63865    | 18.476  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 74058    | 18.886  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 190048   | 98.440  | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.49  | 43   | 304702   | 95.310  | ug/l   | 100      |
| 60) Dibromochloromethane       | 9.59  | 129  | 45649    | 18.880  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 46024    | 19.196  | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.34  | 164  | 48161    | 19.982  | ug/l   | 96       |
| 65) Chlorobenzene              | 10.14 | 112  | 120530   | 19.495  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 42897    | 19.029  | ug/l   | 97       |
| 67) Ethyl Benzene              | 10.25 | 91   | 197208   | 19.387  | ug/l   | 99       |
| 68) m/p-Xylenes                | 10.36 | 106  | 157831   | 39.993  | ug/l   | 100      |
| 69) o-Xylene                   | 10.70 | 106  | 74656    | 20.107  | ug/l   | 100      |
| 70) Styrene                    | 10.71 | 104  | 125259   | 20.153  | ug/l   | 99       |
| 71) Bromoform                  | 10.86 | 173  | 37285    | 18.535  | ug/l # | 99       |
| 73) Isopropylbenzene           | 11.02 | 105  | 204708   | 20.392  | ug/l   | 99       |
| 74) N-amyl acetate             | 10.90 | 43   | 95981    | 19.296  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 71583    | 19.328  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.30 | 75   | 67268m   | 19.989  | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 54732    | 19.563  | ug/l   | 99       |
| 78) n-propylbenzene            | 11.36 | 91   | 233670   | 20.356  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 142219   | 19.982  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 175693   | 20.459  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 19996    | 18.778  | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 167815   | 19.996  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 11.77 | 119  | 167499   | 19.567  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 181382   | 20.840  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.94 | 105  | 206329   | 20.200  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.07 | 119  | 184829   | 20.242  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 102564   | 19.495  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 104564   | 19.002  | ug/l   | 100      |
| 89) n-Butylbenzene             | 12.39 | 91   | 161025   | 19.534  | ug/l   | 99       |
| 90) Hexachloroethane           | 12.60 | 117  | 29889    | 18.979  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 12.40 | 146  | 103845   | 19.510  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 16701    | 18.650  | ug/l   | 99       |

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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 74703    | 19.361 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 13.79 | 225  | 38340    | 19.174 | ug/l  | 99       |
| 95) Naphthalene            | 13.83 | 128  | 225956   | 20.146 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 77594    | 19.839 | ug/l  | 99       |

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

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