

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122319\  
 Data File : VX014200.D  
 Acq On : 23 Dec 2019 14:26  
 Operator : JC/SP  
 Sample : VX1223WBSD01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 Client Sampled :  
 VX1223WBSD01

Manual Integrations  
 APPROVED

apatel  
 12/24/2019 8:53:06 AM

Quant Time: Dec 24 02:53:36 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121319W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 17 03:01:07 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 515873   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 794967   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 713198   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 347525   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.06   | 65  | 292547   | 50.04 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.08% |      |
| 35) Dibromofluoromethane  | 5.49   | 113 | 242081   | 50.09 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.18% |      |
| 50) Toluene-d8            | 8.71   | 98  | 946379   | 50.30 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.60% |      |
| 62) 4-Bromofluorobenzene  | 11.14  | 95  | 330361   | 48.04 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.08%  |      |

## Target Compounds

|                               |      |     |         |         | Qvalue   |
|-------------------------------|------|-----|---------|---------|----------|
| 2) Dichlorodifluoromethane    | 1.19 | 85  | 89072   | 19.300  | ug/l 100 |
| 3) Chloromethane              | 1.32 | 50  | 123592  | 19.955  | ug/l 100 |
| 4) Vinyl Chloride             | 1.40 | 62  | 128559  | 19.671  | ug/l 100 |
| 5) Bromomethane               | 1.63 | 94  | 79757   | 17.195  | ug/l 99  |
| 6) Chloroethane               | 1.72 | 64  | 86533   | 21.453  | ug/l 97  |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 168405  | 20.816  | ug/l 98  |
| 8) Diethyl Ether              | 2.18 | 74  | 77025   | 20.286  | ug/l 99  |
| 9) 1,1,2-Trichlorotrifluoroet | 2.38 | 101 | 100539  | 20.616  | ug/l 97  |
| 10) Methyl Iodide             | 2.50 | 142 | 108643  | 18.628  | ug/l 98  |
| 11) Tert butyl alcohol        | 3.03 | 59  | 136606  | 108.131 | ug/l 99  |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 101311  | 20.416  | ug/l 98  |
| 13) Acrolein                  | 2.28 | 56  | 69752   | 96.452  | ug/l 99  |
| 14) Allyl chloride            | 2.72 | 41  | 185340  | 20.918  | ug/l 99  |
| 15) Acrylonitrile             | 3.13 | 53  | 319101  | 108.217 | ug/l 99  |
| 16) Acetone                   | 2.43 | 43  | 331863  | 87.430  | ug/l 99  |
| 17) Carbon Disulfide          | 2.56 | 76  | 255279  | 19.002  | ug/l 99  |
| 18) Methyl Acetate            | 2.76 | 43  | 167543  | 22.275  | ug/l 97  |
| 19) Methyl tert-butyl Ether   | 3.19 | 73  | 350576  | 21.499  | ug/l 99  |
| 20) Methylene Chloride        | 2.85 | 84  | 120114  | 20.095  | ug/l 98  |
| 21) trans-1,2-Dichloroethene  | 3.15 | 96  | 108480  | 19.843  | ug/l 99  |
| 22) Diisopropyl ether         | 3.84 | 45  | 379601  | 21.500  | ug/l 99  |
| 23) Vinyl Acetate             | 3.80 | 43  | 1600401 | 111.074 | ug/l 99  |
| 24) 1,1-Dichloroethane        | 3.69 | 63  | 203358  | 20.702  | ug/l 98  |
| 25) 2-Butanone                | 4.65 | 43  | 471673  | 100.791 | ug/l 98  |
| 26) 2,2-Dichloropropane       | 4.58 | 77  | 161228  | 21.140  | ug/l 100 |
| 27) cis-1,2-Dichloroethene    | 4.59 | 96  | 127962  | 20.696  | ug/l 99  |
| 28) Bromochloromethane        | 5.00 | 49  | 74099   | 19.890  | ug/l 99  |
| 29) Tetrahydrofuran           | 5.12 | 42  | 291605  | 111.406 | ug/l 100 |
| 30) Chloroform                | 5.20 | 83  | 197211  | 21.178  | ug/l 98  |
| 31) Cyclohexane               | 5.57 | 56  | 182100  | 20.843  | ug/l 98  |
| 32) 1,1,1-Trichloroethane     | 5.48 | 97  | 167120  | 21.057  | ug/l 100 |
| 36) 1,1-Dichloropropene       | 5.79 | 75  | 146903  | 20.139  | ug/l 99  |
| 37) Ethyl Acetate             | 4.82 | 43  | 174405  | 21.652  | ug/l 99  |
| 38) Carbon Tetrachloride      | 5.78 | 117 | 139655  | 21.017  | ug/l 99  |

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 ALS Vial : 11 Sample Multiplier: 1

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Quant Time: Dec 24 02:53:36 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121319W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 17 03:01:07 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 179593   | 19.940  | ug/l  | 97       |
| 40) Benzene                    | 6.14  | 78   | 460246   | 20.507  | ug/l  | 100      |
| 41) Methacrylonitrile          | 5.03  | 41   | 94994    | 21.255  | ug/l  | 99       |
| 42) 1,2-Dichloroethane         | 6.18  | 62   | 157509   | 20.703  | ug/l  | 98       |
| 43) Isopropyl Acetate          | 6.43  | 43   | 284226   | 21.322  | ug/l  | 99       |
| 44) Trichloroethene            | 7.21  | 130  | 126246   | 20.365  | ug/l  | 100      |
| 45) 1,2-Dichloropropane        | 7.51  | 63   | 118256   | 20.557  | ug/l  | 98       |
| 46) Dibromomethane             | 7.65  | 93   | 77089    | 20.269  | ug/l  | 99       |
| 47) Bromodichloromethane       | 7.89  | 83   | 148299   | 20.704  | ug/l  | 100      |
| 48) Methyl methacrylate        | 7.76  | 41   | 139351   | 21.348  | ug/l  | 99       |
| 49) 1,4-Dioxane                | 7.73  | 88   | 59175    | 445.467 | ug/l  | 96       |
| 51) 4-Methyl-2-Pentanone       | 8.64  | 43   | 893434   | 106.719 | ug/l  | 100      |
| 52) Toluene                    | 8.78  | 92   | 289459   | 20.405  | ug/l  | 99       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 163826   | 20.859  | ug/l  | 98       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 187395   | 21.416  | ug/l  | 98       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 118994   | 20.929  | ug/l  | 96       |
| 56) Ethyl methacrylate         | 9.17  | 69   | 188440   | 21.099  | ug/l  | 99       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 202060   | 21.123  | ug/l  | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 349070   | 103.280 | ug/l  | 100      |
| 59) 2-Hexanone                 | 9.48  | 43   | 697844   | 103.548 | ug/l  | 99       |
| 60) Dibromochloromethane       | 9.57  | 129  | 121452   | 21.490  | ug/l  | 98       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 125176   | 21.518  | ug/l  | 98       |
| 64) Tetrachloroethene          | 9.33  | 164  | 142227   | 22.537  | ug/l  | 97       |
| 65) Chlorobenzene              | 10.14 | 112  | 312148   | 20.584  | ug/l  | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 114535   | 21.153  | ug/l  | 99       |
| 67) Ethyl Benzene              | 10.25 | 91   | 548928   | 21.055  | ug/l  | 99       |
| 68) m/p-Xylenes                | 10.35 | 106  | 412918   | 41.179  | ug/l  | 100      |
| 69) o-Xylene                   | 10.70 | 106  | 202677   | 20.609  | ug/l  | 98       |
| 70) Styrene                    | 10.71 | 104  | 344430   | 20.712  | ug/l  | 99       |
| 71) Bromoform                  | 10.85 | 173  | 90112    | 20.704  | ug/l  | 97       |
| 73) Isopropylbenzene           | 11.01 | 105  | 536896   | 21.942  | ug/l  | 100      |
| 74) N-amyl acetate             | 10.89 | 43   | 250592   | 21.849  | ug/l  | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 11.26 | 83   | 179221   | 21.127  | ug/l  | 100      |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 149391m  | 19.801  | ug/l  |          |
| 77) Bromobenzene               | 11.25 | 156  | 139590   | 20.735  | ug/l  | 100      |
| 78) n-propylbenzene            | 11.35 | 91   | 601360   | 21.911  | ug/l  | 100      |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 357302   | 21.416  | ug/l  | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.50 | 105  | 446828   | 21.698  | ug/l  | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 56922    | 21.295  | ug/l  | 94       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 405011   | 20.928  | ug/l  | 99       |
| 83) tert-Butylbenzene          | 11.76 | 119  | 425245   | 21.220  | ug/l  | 100      |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 447680   | 21.708  | ug/l  | 100      |
| 85) sec-Butylbenzene           | 11.94 | 105  | 515453   | 21.788  | ug/l  | 100      |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 466906   | 21.575  | ug/l  | 99       |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 243525   | 20.640  | ug/l  | 98       |
| 88) 1,4-Dichlorobenzene        | 12.09 | 146  | 242946   | 20.250  | ug/l  | 99       |
| 89) n-Butylbenzene             | 12.38 | 91   | 392874   | 21.276  | ug/l  | 99       |
| 90) Hexachloroethane           | 12.59 | 117  | 78489    | 20.192  | ug/l  | 96       |
| 91) 1,2-Dichlorobenzene        | 12.38 | 146  | 241653   | 20.346  | ug/l  | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.99 | 75   | 38562    | 20.542  | ug/l  | 99       |

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Quant Title : SW846 8260  
QLast Update : Tue Dec 17 03:01:07 2019  
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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.64 | 180  | 158136   | 20.484 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 13.77 | 225  | 77290    | 20.832 | ug/l  | 96       |
| 95) Naphthalene            | 13.83 | 128  | 493811   | 21.772 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.01 | 180  | 158955   | 20.859 | ug/l  | 95       |

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

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