

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121819\  
 Data File : VX014086.D  
 Acq On : 18 Dec 2019 11:02  
 Operator : JC/SP  
 Sample : VX1218WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1218WBS01

Manual Integrations  
 APPROVED

apatel  
 12/19/2019 11:50:56 AM

Quant Time: Dec 18 16:29:45 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  | 619178   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 934844   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 835855   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 421325   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.05   | 65  | 353744   | 50.41 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.82% |      |
| 35) Dibromofluoromethane  | 5.48   | 113 | 289791   | 50.99 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.98% |      |
| 50) Toluene-d8            | 8.71   | 98  | 1129853  | 51.07 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.14% |      |
| 62) 4-Bromofluorobenzene  | 11.13  | 95  | 403656   | 49.91 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.82%  |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.19 | 85  | 110563  | 19.960  | ug/l | 98     |
| 3) Chloromethane              | 1.32 | 50  | 150685  | 20.270  | ug/l | 98     |
| 4) Vinyl Chloride             | 1.40 | 62  | 160562  | 20.469  | ug/l | 98     |
| 5) Bromomethane               | 1.63 | 94  | 100020  | 17.965  | ug/l | 99     |
| 6) Chloroethane               | 1.72 | 64  | 100350  | 20.728  | ug/l | 94     |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 200152  | 20.612  | ug/l | 99     |
| 8) Diethyl Ether              | 2.18 | 74  | 89969   | 19.742  | ug/l | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101 | 121330  | 20.728  | ug/l | 99     |
| 10) Methyl Iodide             | 2.50 | 142 | 148056  | 20.796  | ug/l | 98     |
| 11) Tert butyl alcohol        | 3.03 | 59  | 149474  | 98.576  | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 2.36 | 96  | 119374  | 20.042  | ug/l | 95     |
| 13) Acrolein                  | 2.28 | 56  | 106068  | 122.199 | ug/l | 97     |
| 14) Allyl chloride            | 2.72 | 41  | 217687  | 20.470  | ug/l | 100    |
| 15) Acrylonitrile             | 3.13 | 53  | 368134  | 104.016 | ug/l | 99     |
| 16) Acetone                   | 2.43 | 43  | 394350  | 86.559  | ug/l | 99     |
| 17) Carbon Disulfide          | 2.56 | 76  | 325677  | 20.151  | ug/l | 97     |
| 18) Methyl Acetate            | 2.76 | 43  | 185072  | 20.501  | ug/l | 98     |
| 19) Methyl tert-butyl Ether   | 3.18 | 73  | 402324  | 20.556  | ug/l | 99     |
| 20) Methylene Chloride        | 2.84 | 84  | 140809  | 19.627  | ug/l | 97     |
| 21) trans-1,2-Dichloroethene  | 3.15 | 96  | 131713  | 20.073  | ug/l | 97     |
| 22) Diisopropyl ether         | 3.84 | 45  | 449968  | 21.233  | ug/l | 90     |
| 23) Vinyl Acetate             | 3.80 | 43  | 1888693 | 109.213 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 3.69 | 63  | 238617  | 20.239  | ug/l | 100    |
| 25) 2-Butanone                | 4.65 | 43  | 549016  | 97.744  | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 4.58 | 77  | 186899  | 20.417  | ug/l | 100    |
| 27) cis-1,2-Dichloroethene    | 4.58 | 96  | 149946  | 20.206  | ug/l | 99     |
| 28) Bromochloromethane        | 5.00 | 49  | 92587   | 20.687  | ug/l | 99     |
| 29) Tetrahydrofuran           | 5.11 | 42  | 333147  | 106.042 | ug/l | 98     |
| 30) Chloroform                | 5.20 | 83  | 229972  | 20.576  | ug/l | 97     |
| 31) Cyclohexane               | 5.57 | 56  | 220981  | 21.073  | ug/l | 99     |
| 32) 1,1,1-Trichloroethane     | 5.48 | 97  | 191023  | 20.053  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 5.79 | 75  | 175760  | 20.490  | ug/l | 99     |
| 37) Ethyl Acetate             | 4.81 | 43  | 201314  | 21.253  | ug/l | 100    |
| 38) Carbon Tetrachloride      | 5.77 | 117 | 163380  | 20.908  | ug/l | 96     |

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 Quant Title : SW846 8260  
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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.45  | 83   | 223177   | 21.072  | ug/l   | 97       |
| 40) Benzene                    | 6.13  | 78   | 538891   | 20.418  | ug/l   | 99       |
| 41) Methacrylonitrile          | 5.02  | 41   | 112634   | 21.431  | ug/l   | 97       |
| 42) 1,2-Dichloroethane         | 6.18  | 62   | 189350   | 21.165  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 6.43  | 43   | 322642   | 20.582  | ug/l   | 99       |
| 44) Trichloroethene            | 7.20  | 130  | 148176   | 20.326  | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 7.51  | 63   | 140333   | 20.745  | ug/l   | 100      |
| 46) Dibromomethane             | 7.65  | 93   | 89829    | 20.085  | ug/l   | 98       |
| 47) Bromodichloromethane       | 7.89  | 83   | 172601   | 20.491  | ug/l   | 98       |
| 48) Methyl methacrylate        | 7.76  | 41   | 159154   | 20.734  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 7.73  | 88   | 63908    | 409.112 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 8.64  | 43   | 1028924  | 104.514 | ug/l   | 98       |
| 52) Toluene                    | 8.78  | 92   | 338634   | 20.299  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 9.03  | 75   | 191001   | 20.680  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 219663   | 21.348  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 137596   | 20.580  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 9.17  | 69   | 216360   | 20.601  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 236040   | 20.983  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 406473   | 102.269 | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.48  | 43   | 785453   | 99.109  | ug/l   | 100      |
| 60) Dibromochloromethane       | 9.57  | 129  | 138728   | 20.874  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 142228   | 20.791  | ug/l   | 98       |
| 64) Tetrachloroethene          | 9.33  | 164  | 145648   | 19.692  | ug/l   | 96       |
| 65) Chlorobenzene              | 10.14 | 112  | 362754   | 20.411  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 131977   | 20.798  | ug/l   | 100      |
| 67) Ethyl Benzene              | 10.24 | 91   | 641197   | 20.985  | ug/l   | 98       |
| 68) m/p-Xylenes                | 10.35 | 106  | 488755   | 41.590  | ug/l   | 99       |
| 69) o-Xylene                   | 10.70 | 106  | 236335   | 20.505  | ug/l   | 99       |
| 70) Styrene                    | 10.71 | 104  | 405148   | 20.788  | ug/l   | 98       |
| 71) Bromoform                  | 10.85 | 173  | 100991   | 19.799  | ug/l # | 100      |
| 73) Isopropylbenzene           | 11.01 | 105  | 629441   | 21.219  | ug/l   | 100      |
| 74) N-amyl acetate             | 10.89 | 43   | 280020   | 20.138  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.26 | 83   | 211166   | 20.533  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 197642m  | 21.608  | ug/l   |          |
| 77) Bromobenzene               | 11.25 | 156  | 163758   | 20.064  | ug/l   | 99       |
| 78) n-propylbenzene            | 11.35 | 91   | 719707   | 21.630  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 423853   | 20.955  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.50 | 105  | 526185   | 21.076  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 66339    | 20.471  | ug/l   | 93       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 484558   | 20.653  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 11.76 | 119  | 510300   | 21.004  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 525381   | 21.014  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 11.94 | 105  | 610084   | 21.271  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 557144   | 21.236  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 285633   | 19.968  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 12.09 | 146  | 286874   | 19.724  | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.38 | 91   | 476125   | 21.268  | ug/l   | 100      |
| 90) Hexachloroethane           | 12.59 | 117  | 95585    | 20.283  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 12.38 | 146  | 288075   | 20.006  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.99 | 75   | 43307    | 19.029  | ug/l   | 99       |

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|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.64 | 180  | 183493   | 19.606 | ug/l  | 96       |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 92239    | 20.507 | ug/l  | 98       |
| 95) Naphthalene            | 13.83 | 128  | 560340   | 20.378 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.01 | 180  | 191434   | 20.720 | ug/l  | 98       |

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

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