

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX112618\  
 Data File : VX006193.D  
 Acq On : 27 Nov 2018 00:04  
 Operator : JC/MD  
 Sample : VX1126WBSD02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1126WBSD02

Manual Integrations  
 APPROVED

MMDadoda  
 11/27/2018 11:43:58 AM

Quant Time: Nov 27 04:28:52 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X112018W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 21 08:15:54 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 265459   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 389911   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 369460   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 201966   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.07   | 65  | 159331   | 51.80 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.60% |      |
| 35) Dibromofluoromethane  | 5.50   | 113 | 126440   | 50.52 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.04% |      |
| 50) Toluene-d8            | 8.71   | 98  | 476187   | 49.88 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.76%  |      |
| 62) 4-Bromofluorobenzene  | 11.14  | 95  | 171712   | 47.94 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.88%  |      |

## Target Compounds

|                               |      |     |        |        |      | Qvalue |
|-------------------------------|------|-----|--------|--------|------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 39369  | 19.96  | ug/l | 99     |
| 3) Chloromethane              | 1.32 | 50  | 48592  | 19.50  | ug/l | 98     |
| 4) Vinyl Chloride             | 1.41 | 62  | 48281  | 19.05  | ug/l | 93     |
| 5) Bromomethane               | 1.64 | 94  | 31899  | 18.86  | ug/l | 98     |
| 6) Chloroethane               | 1.72 | 64  | 30878  | 29.79  | ug/l | 99     |
| 7) Trichlorofluoromethane     | 1.93 | 101 | 78379  | 23.64  | ug/l | 98     |
| 8) Diethyl Ether              | 2.19 | 74  | 29865  | 21.31  | ug/l | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.38 | 101 | 40516  | 20.61  | ug/l | 99     |
| 10) Methyl Iodide             | 2.51 | 142 | 41554  | 16.86  | ug/l | 99     |
| 11) Tert butyl alcohol        | 3.07 | 59  | 72292  | 110.48 | ug/l | 98     |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 40979  | 21.38  | ug/l | 98     |
| 13) Acrolein                  | 2.29 | 56  | 38312  | 97.85  | ug/l | 97     |
| 14) Allyl chloride            | 2.73 | 41  | 78298  | 19.97  | ug/l | 99     |
| 15) Acrylonitrile             | 3.15 | 53  | 149992 | 103.78 | ug/l | 99     |
| 16) Acetone                   | 2.45 | 43  | 147786 | 108.27 | ug/l | 95     |
| 17) Carbon Disulfide          | 2.57 | 76  | 104237 | 20.14  | ug/l | 98     |
| 18) Methyl Acetate            | 2.78 | 43  | 78565  | 22.44  | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 3.20 | 73  | 136981 | 20.67  | ug/l | 99     |
| 20) Methylene Chloride        | 2.86 | 84  | 44555  | 21.37  | ug/l | 97     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96  | 39530  | 19.71  | ug/l | 98     |
| 22) Diisopropyl ether         | 3.87 | 45  | 180447 | 21.49  | ug/l | 99     |
| 23) Vinyl Acetate             | 3.82 | 43  | 762840 | 109.53 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 3.70 | 63  | 83002  | 20.99  | ug/l | 98     |
| 25) 2-Butanone                | 4.70 | 43  | 263489 | 104.00 | ug/l | 100    |
| 26) 2,2-Dichloropropane       | 4.58 | 77  | 58419  | 17.92  | ug/l | 97     |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96  | 55546  | 19.82  | ug/l | 99     |
| 28) Bromochloromethane        | 5.01 | 49  | 50684  | 21.99  | ug/l | 100    |
| 29) Tetrahydrofuran           | 5.15 | 42  | 166907 | 105.61 | ug/l | 98     |
| 30) Chloroform                | 5.21 | 83  | 98046  | 20.46  | ug/l | 99     |
| 31) Cyclohexane               | 5.58 | 56  | 75694  | 18.32  | ug/l | 95     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97  | 82278  | 21.26  | ug/l | 100    |
| 36) 1,1-Dichloropropene       | 5.80 | 75  | 67222  | 18.95  | ug/l | 98     |
| 37) Ethyl Acetate             | 4.85 | 43  | 94771  | 20.77  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 5.78 | 117 | 69391  | 20.81  | ug/l | 98     |

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Quant Time: Nov 27 04:28:52 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X112018W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 21 08:15:54 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 70670    | 17.49  | ug/l   | 98       |
| 40) Benzene                    | 6.14  | 78   | 208216   | 19.92  | ug/l   | 97       |
| 41) Methacrylonitrile          | 5.06  | 41   | 52648    | 20.93  | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 80931    | 20.71  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 6.46  | 43   | 134296   | 20.38  | ug/l   | 99       |
| 44) Trichloroethene            | 7.21  | 130  | 57321    | 19.73  | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 7.51  | 63   | 55286    | 19.99  | ug/l   | 99       |
| 46) Dibromomethane             | 7.66  | 93   | 38529    | 20.34  | ug/l   | 99       |
| 47) Bromodichloromethane       | 7.90  | 83   | 72545    | 20.71  | ug/l   | 99       |
| 48) Methyl methacrylate        | 7.77  | 41   | 72474    | 21.68  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 7.75  | 88   | 31654    | 399.16 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone       | 8.65  | 43   | 501051   | 106.04 | ug/l   | 99       |
| 52) Toluene                    | 8.79  | 92   | 133247   | 20.61  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 74335    | 20.33  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 80286    | 19.87  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 57004    | 20.36  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 78967    | 19.94  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 94366    | 20.45  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 241575   | 103.34 | ug/l   | 99       |
| 59) 2-Hexanone                 | 9.49  | 43   | 399546   | 106.55 | ug/l   | 98       |
| 60) Dibromochloromethane       | 9.59  | 129  | 57557    | 20.97  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 60245    | 20.89  | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.34  | 164  | 62021    | 20.40  | ug/l   | 96       |
| 65) Chlorobenzene              | 10.14 | 112  | 149071   | 19.67  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 54450    | 20.93  | ug/l   | 97       |
| 67) Ethyl Benzene              | 10.25 | 91   | 245550   | 19.79  | ug/l   | 100      |
| 68) m/p-Xylenes                | 10.36 | 106  | 192989   | 39.94  | ug/l   | 100      |
| 69) o-Xylene                   | 10.70 | 106  | 92103    | 19.96  | ug/l   | 99       |
| 70) Styrene                    | 10.71 | 104  | 152972   | 20.33  | ug/l   | 99       |
| 71) Bromoform                  | 10.86 | 173  | 46698    | 20.05  | ug/l # | 99       |
| 73) Isopropylbenzene           | 11.02 | 105  | 251379   | 20.57  | ug/l   | 99       |
| 74) N-amyl acetate             | 10.90 | 43   | 117202   | 20.18  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 93534    | 20.31  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 11.30 | 75   | 89457m   | 21.51  | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 69189    | 20.21  | ug/l   | 99       |
| 78) n-propylbenzene            | 11.36 | 91   | 290003   | 20.38  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 174865   | 20.31  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 212865   | 20.66  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 23487    | 19.10  | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 206497   | 20.55  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 11.77 | 119  | 202145   | 20.10  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 219171   | 20.85  | ug/l   | 98       |
| 85) sec-Butylbenzene           | 11.94 | 105  | 252514   | 20.52  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 12.07 | 119  | 223176   | 20.35  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 124843   | 19.78  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 127424   | 19.47  | ug/l   | 98       |
| 89) n-Butylbenzene             | 12.39 | 91   | 188499   | 18.98  | ug/l   | 98       |
| 90) Hexachloroethane           | 12.60 | 117  | 36205    | 20.68  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 125531   | 19.45  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 22204    | 20.78  | ug/l   | 97       |

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| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 87593    | 19.27 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 13.79 | 225  | 42480    | 19.17 | ug/l  | 99       |
| 95) Naphthalene            | 13.83 | 128  | 274477   | 20.53 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 92465    | 19.95 | ug/l  | 99       |

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

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