

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052819\  
 Data File : VX009913.D  
 Acq On : 28 May 2019 14:36  
 Operator : JC/SP  
 Sample : VX0528WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0528WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 5/29/2019 9:25:13 AM

Quant Time: May 29 04:28:32 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X052819W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 29 04:00:56 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 175261   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 275520   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 249652   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 122886   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 6.06   | 65  | 117479   | 47.45 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 94.90% |      |
| 35) Dibromofluoromethane  | 5.49   | 113 | 84044    | 48.52 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.04% |      |
| 50) Toluene-d8            | 8.71   | 98  | 349619   | 49.70 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.40% |      |
| 62) 4-Bromofluorobenzene  | 11.13  | 95  | 125887   | 49.83 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.66% |      |

## Target Compounds

|                               |      |     |        |         |      | Qvalue |
|-------------------------------|------|-----|--------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 48049  | 22.435  | ug/l | 99     |
| 3) Chloromethane              | 1.32 | 50  | 58559  | 20.339  | ug/l | 97     |
| 4) Vinyl Chloride             | 1.41 | 62  | 52156  | 20.095  | ug/l | 98     |
| 5) Bromomethane               | 1.64 | 94  | 31176  | 19.825  | ug/l | 99     |
| 6) Chloroethane               | 1.72 | 64  | 30836  | 19.300  | ug/l | 99     |
| 7) Trichlorofluoromethane     | 1.93 | 101 | 59048  | 20.588  | ug/l | 98     |
| 8) Diethyl Ether              | 2.19 | 74  | 25946  | 19.251  | ug/l | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.38 | 101 | 35662  | 20.595  | ug/l | 98     |
| 10) Methyl Iodide             | 2.51 | 142 | 34846  | 19.394  | ug/l | 99     |
| 11) Tert butyl alcohol        | 3.04 | 59  | 61003  | 100.125 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 35303  | 19.890  | ug/l | 98     |
| 13) Acrolein                  | 2.29 | 56  | 38756  | 103.264 | ug/l | 97     |
| 14) Allyl chloride            | 2.73 | 41  | 84798  | 19.657  | ug/l | 99     |
| 15) Acrylonitrile             | 3.14 | 53  | 136727 | 93.137  | ug/l | 99     |
| 16) Acetone                   | 2.44 | 43  | 134439 | 93.986  | ug/l | 99     |
| 17) Carbon Disulfide          | 2.57 | 76  | 106316 | 20.014  | ug/l | 99     |
| 18) Methyl Acetate            | 2.77 | 43  | 61558  | 18.495  | ug/l | 97     |
| 19) Methyl tert-butyl Ether   | 3.19 | 73  | 129758 | 19.364  | ug/l | 98     |
| 20) Methylene Chloride        | 2.85 | 84  | 42233  | 19.280  | ug/l | 98     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96  | 38134  | 19.309  | ug/l | 97     |
| 22) Diisopropyl ether         | 3.85 | 45  | 160626 | 19.569  | ug/l | 91     |
| 23) Vinyl Acetate             | 3.81 | 43  | 724365 | 98.236  | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 3.70 | 63  | 77840  | 19.569  | ug/l | 100    |
| 25) 2-Butanone                | 4.67 | 43  | 211521 | 94.914  | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 4.57 | 77  | 58852  | 19.558  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96  | 42934  | 18.833  | ug/l | 100    |
| 28) Bromochloromethane        | 5.01 | 49  | 37290  | 18.065  | ug/l | 96     |
| 29) Tetrahydrofuran           | 5.13 | 42  | 134718 | 94.269  | ug/l | 99     |
| 30) Chloroform                | 5.21 | 83  | 70578  | 19.674  | ug/l | 96     |
| 31) Cyclohexane               | 5.57 | 56  | 77959  | 20.693  | ug/l | 97     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97  | 58444  | 20.004  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 5.79 | 75  | 54540  | 19.510  | ug/l | 99     |
| 37) Ethyl Acetate             | 4.83 | 43  | 77875  | 19.993  | ug/l | 100    |
| 38) Carbon Tetrachloride      | 5.78 | 117 | 48205  | 19.955  | ug/l | 99     |

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 Sample : VX0528WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VX0528WBS01

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 5/29/2019 9:25:13 AM

Quant Time: May 29 04:28:32 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X052819W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 29 04:00:56 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 71120    | 21.448  | ug/l   | 99       |
| 40) Benzene                    | 6.14  | 78   | 167826   | 20.238  | ug/l   | 99       |
| 41) Methacrylonitrile          | 5.04  | 41   | 42537    | 18.689  | ug/l   | 96       |
| 42) 1,2-Dichloroethane         | 6.19  | 62   | 60671    | 19.790  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 6.44  | 43   | 121602   | 19.348  | ug/l   | 99       |
| 44) Trichloroethene            | 7.21  | 130  | 39529    | 19.624  | ug/l   | 96       |
| 45) 1,2-Dichloropropane        | 7.51  | 63   | 47328    | 19.826  | ug/l   | 97       |
| 46) Dibromomethane             | 7.66  | 93   | 27008    | 19.221  | ug/l   | 99       |
| 47) Bromodichloromethane       | 7.90  | 83   | 54246    | 20.301  | ug/l   | 98       |
| 48) Methyl methacrylate        | 7.77  | 41   | 61755    | 19.849  | ug/l   | 100      |
| 49) 1,4-Dioxane                | 7.74  | 88   | 23253    | 401.795 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 8.64  | 43   | 402898   | 98.545  | ug/l   | 99       |
| 52) Toluene                    | 8.78  | 92   | 102601   | 20.378  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 61848    | 19.300  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 68707    | 19.678  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 40161    | 19.818  | ug/l   | 99       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 72264    | 20.030  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 71977    | 19.777  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 179175   | 94.709  | ug/l   | 99       |
| 59) 2-Hexanone                 | 9.49  | 43   | 316687   | 100.609 | ug/l   | 100      |
| 60) Dibromochloromethane       | 9.58  | 129  | 39090    | 19.609  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 40818    | 19.606  | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.34  | 164  | 36623    | 21.002  | ug/l   | 99       |
| 65) Chlorobenzene              | 10.13 | 112  | 105131   | 20.115  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 37016    | 20.420  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.25 | 91   | 196190   | 20.906  | ug/l   | 99       |
| 68) m/p-Xylenes                | 10.35 | 106  | 142596   | 41.131  | ug/l   | 100      |
| 69) o-Xylene                   | 10.69 | 106  | 68876    | 20.715  | ug/l   | 100      |
| 70) Styrene                    | 10.71 | 104  | 120071   | 20.595  | ug/l   | 99       |
| 71) Bromoform                  | 10.85 | 173  | 29483    | 19.897  | ug/l # | 97       |
| 73) Isopropylbenzene           | 11.02 | 105  | 187042   | 20.629  | ug/l   | 99       |
| 74) N-amyl acetate             | 10.90 | 43   | 109976   | 20.299  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 66128    | 19.550  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 58493m   | 19.905  | ug/l   |          |
| 77) Bromobenzene               | 11.25 | 156  | 45048    | 19.496  | ug/l   | 100      |
| 78) n-propylbenzene            | 11.36 | 91   | 216208   | 20.688  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 128456   | 20.118  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 156773   | 20.524  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 21936    | 18.469  | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 146901   | 19.763  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 11.77 | 119  | 149766   | 20.494  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 159757   | 20.595  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 11.94 | 105  | 181920   | 20.925  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 165104   | 21.114  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 80540    | 19.578  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 80882    | 19.279  | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.38 | 91   | 153177   | 20.843  | ug/l   | 99       |
| 90) Hexachloroethane           | 12.60 | 117  | 27166    | 20.243  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 80604    | 19.874  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 15176    | 19.060  | ug/l   | 99       |

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Sample : VX0528WBS01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0528WBS01

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5/29/2019 9:25:13 AM

Quant Time: May 29 04:28:32 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X052819W.M  
Quant Title : SW846 8260  
QLast Update : Wed May 29 04:00:56 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 58786    | 20.283 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 30268    | 20.821 | ug/l  | 100      |
| 95) Naphthalene            | 13.83 | 128  | 180346   | 19.995 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 58245    | 20.076 | ug/l  | 99       |

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

