

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX022519\  
 Data File : VX007662.D  
 Acq On : 25 Feb 2019 09:46  
 Operator : JC/SP  
 Sample : VSTDIC001  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC001

Manual Integrations  
 APPROVED

MMDadoda  
 2/26/2019 2:57:01 PM

Quant Time: Feb 25 11:49:16 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X022519W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 25 11:30:24 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 425330   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 668841   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 585425   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 267430   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |      |       |  |
|---------------------------|--------|-----|----------|------|-------|--|
| 33) 1,2-Dichloroethane-d4 | 0.00   | 65  | 0d       | 0.00 | ug/l  |  |
| Spiked Amount             | 50.000 |     | Recovery | =    | 0.00% |  |
| 35) Dibromofluoromethane  | 0.00   | 113 | 0d       | 0.00 | ug/l  |  |
| Spiked Amount             | 50.000 |     | Recovery | =    | 0.00% |  |
| 50) Toluene-d8            | 0.00   | 98  | 0d       | 0.00 | ug/l  |  |
| Spiked Amount             | 50.000 |     | Recovery | =    | 0.00% |  |
| 62) 4-Bromofluorobenzene  | 0.00   | 95  | 0d       | 0.00 | ug/l  |  |
| Spiked Amount             | 50.000 |     | Recovery | =    | 0.00% |  |

## Target Compounds

|                               |      |     |       |              | Qvalue |
|-------------------------------|------|-----|-------|--------------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 4069  | 0.858 ug/l   | 89     |
| 3) Chloromethane              | 1.33 | 50  | 5529  | 1.154 ug/l   | 100    |
| 4) Vinyl Chloride             | 1.41 | 62  | 5041  | 1.073 ug/l   | 97     |
| 5) Bromomethane               | 1.64 | 94  | 4440  | 0.830 ug/l   | 86     |
| 6) Chloroethane               | 1.73 | 64  | 3232  | 1.063 ug/l   | 90     |
| 7) Trichlorofluoromethane     | 1.93 | 101 | 7343  | 0.999 ug/l   | 98     |
| 8) Diethyl Ether              | 2.19 | 74  | 3380  | 1.221 ug/l   | 96     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.39 | 101 | 4928  | 1.127 ug/l   | 87     |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 3686  | 0.908 ug/l # | 80     |
| 14) Allyl chloride            | 2.73 | 41  | 6737  | 1.018 ug/l   | 93     |
| 15) Acrylonitrile             | 3.15 | 53  | 11882 | 5.141 ug/l   | 93     |
| 16) Acetone                   | 2.45 | 43  | 14186 | 6.860 ug/l   | 94     |
| 17) Carbon Disulfide          | 2.57 | 76  | 10542 | 0.984 ug/l # | 87     |
| 18) Methyl Acetate            | 2.78 | 43  | 5443  | 0.930 ug/l # | 85     |
| 19) Methyl tert-butyl Ether   | 3.20 | 73  | 13250 | 1.007 ug/l   | 94     |
| 20) Methylene Chloride        | 2.85 | 84  | 5485  | 1.173 ug/l # | 84     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96  | 4351  | 1.006 ug/l # | 81     |
| 22) Diisopropyl ether         | 3.87 | 45  | 13026 | 1.070 ug/l   | 88     |
| 23) Vinyl Acetate             | 3.82 | 43  | 57145 | 5.658 ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 3.70 | 63  | 8549  | 1.223 ug/l   | 97     |
| 25) 2-Butanone                | 4.70 | 43  | 17308 | 5.881 ug/l   | 96     |
| 26) 2,2-Dichloropropane       | 4.58 | 77  | 6749  | 1.268 ug/l   | 89     |
| 27) cis-1,2-Dichloroethene    | 4.59 | 96  | 5683  | 1.203 ug/l   | 92     |
| 28) Bromochloromethane        | 5.01 | 49  | 3859  | 1.201 ug/l # | 97     |
| 29) Tetrahydrofuran           | 5.15 | 42  | 12202 | 6.592 ug/l   | 96     |
| 30) Chloroform                | 5.21 | 83  | 8703  | 1.193 ug/l   | 95     |
| 31) Cyclohexane               | 5.57 | 56  | 7890  | 1.257 ug/l # | 84     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97  | 6837  | 1.111 ug/l # | 43     |
| 36) 1,1-Dichloropropene       | 5.79 | 75  | 6210  | 1.035 ug/l   | 93     |
| 37) Ethyl Acetate             | 4.85 | 43  | 6665  | 1.099 ug/l # | 75     |
| 38) Carbon Tetrachloride      | 5.77 | 117 | 6512  | 1.119 ug/l # | 84     |
| 39) Methylcyclohexane         | 7.46 | 83  | 8127  | 1.119 ug/l   | 94     |
| 40) Benzene                   | 6.15 | 78  | 19247 | 1.089 ug/l # | 88     |
| 41) Methacrylonitrile         | 5.05 | 41  | 3463  | 1.065 ug/l # | 73     |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
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 ClientSampleID :  
 VSTDIC001

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X022519W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 25 11:30:24 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| -----                          |       |      |          |        |        |          |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 6383     | 1.044  | ug/l # | 72       |
| 43) Isopropyl Acetate          | 6.45  | 43   | 8939     | 0.955  | ug/l # | 84       |
| 44) Trichloroethene            | 7.21  | 130  | 5342     | 1.003  | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 7.51  | 63   | 5028     | 1.135  | ug/l # | 89       |
| 46) Dibromomethane             | 7.66  | 93   | 3944     | 1.225  | ug/l # | 83       |
| 47) Bromodichloromethane       | 7.90  | 83   | 5340     | 0.979  | ug/l # | 85       |
| 48) Methyl methacrylate        | 7.77  | 41   | 5361     | 1.145  | ug/l   | 92       |
| 49) 1,4-Dioxane                | 7.76  | 88   | 2457     | 21.079 | ug/l # | 64       |
| 51) 4-Methyl-2-Pentanone       | 8.65  | 43   | 30022    | 4.870  | ug/l   | 95       |
| 52) Toluene                    | 8.79  | 92   | 11472    | 1.006  | ug/l   | 93       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 4947     | 0.844  | ug/l # | 85       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 6185     | 0.960  | ug/l # | 85       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 5136     | 1.080  | ug/l   | 91       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 6086     | 0.924  | ug/l   | 90       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 7694     | 1.018  | ug/l   | 94       |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 18926    | 5.453  | ug/l   | 99       |
| 59) 2-Hexanone                 | 9.49  | 43   | 23643    | 4.929  | ug/l   | 94       |
| 60) Dibromochloromethane       | 9.58  | 129  | 3995     | 0.888  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 4901     | 0.973  | ug/l   | 94       |
| 64) Tetrachloroethene          | 9.34  | 164  | 5144     | 0.932  | ug/l   | 90       |
| 65) Chlorobenzene              | 10.13 | 112  | 13565    | 1.062  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 4587     | 1.071  | ug/l # | 63       |
| 67) Ethyl Benzene              | 10.25 | 91   | 20502    | 0.997  | ug/l   | 94       |
| 68) m/p-Xylenes                | 10.36 | 106  | 16015    | 1.958  | ug/l   | 93       |
| 69) o-Xylene                   | 10.70 | 106  | 7119     | 0.905  | ug/l   | 93       |
| 70) Styrene                    | 10.71 | 104  | 11275    | 0.883  | ug/l   | 98       |
| 71) Bromoform                  | 10.86 | 173  | 2875     | 0.868  | ug/l # | 89       |
| 73) Isopropylbenzene           | 11.02 | 105  | 19447    | 1.070  | ug/l   | 100      |
| 74) N-amyl acetate             | 10.90 | 43   | 7607     | 1.082  | ug/l # | 94       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 7645     | 1.380  | ug/l   | 91       |
| 76) 1,2,3-Trichloropropane     | 11.30 | 75   | 5142m    | 0.988  | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 5024     | 0.981  | ug/l   | 90       |
| 78) n-propylbenzene            | 11.36 | 91   | 19936    | 1.000  | ug/l   | 95       |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 13498    | 1.116  | ug/l   | 93       |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 15176    | 1.021  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 1607     | 1.073  | ug/l # | 84       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 14500    | 1.036  | ug/l   | 97       |
| 83) tert-Butylbenzene          | 11.77 | 119  | 14733    | 1.001  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 15047    | 0.997  | ug/l   | 98       |
| 85) sec-Butylbenzene           | 11.94 | 105  | 17427    | 0.978  | ug/l   | 97       |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 14899    | 0.926  | ug/l   | 88       |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 9499     | 1.034  | ug/l   | 95       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 10188m   | 1.093  | ug/l   |          |
| 89) n-Butylbenzene             | 12.39 | 91   | 13115    | 0.948  | ug/l   | 95       |
| 90) Hexachloroethane           | 12.60 | 117  | 2731     | 1.135  | ug/l   | 82       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 10005    | 1.094  | ug/l   | 95       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 1647     | 1.430  | ug/l   | 73       |
| 93) 1,2,4-Trichlorobenzene     | 13.65 | 180  | 5200     | 0.843  | ug/l   | 92       |
| 94) Hexachlorobutadiene        | 13.78 | 225  | 2786     | 0.930  | ug/l   | 94       |
| 95) Naphthalene                | 13.83 | 128  | 15144    | 0.840  | ug/l # | 95       |

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Sample : VSTDICC001  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC001

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Quant Title : SW846 8260  
QLast Update : Mon Feb 25 11:30:24 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 5815     | 0.937 | ug/l  | 94       |

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

