

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070518\  
 Data File : VX003171.D  
 Acq On : 05 Jul 2018 14:46  
 Operator : JC/MD  
 Sample : VX0705WBS02  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0705WBS02

Manual Integrations  
 APPROVED

sam  
 7/6/2018 4:20:16 PM

Quant Time: Jul 05 17:36:37 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X062518W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jun 25 14:38:05 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 229360   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 310943   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 302310   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 185295   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.07  | 65   | 171101   | 53.97 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.94% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 141889   | 57.62 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 115.24% |          |
| 50) Toluene-d8              | 8.72  | 98   | 501775   | 55.80 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 111.60% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 196029   | 56.53 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 113.06% |          |

| Target Compounds              | R.T. | QIon | Response | Conc   | Units | Qvalue |
|-------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85   | 47859    | 23.21  | ug/l  | 100    |
| 3) Chloromethane              | 1.32 | 50   | 51507    | 23.59  | ug/l  | 99     |
| 4) Vinyl Chloride             | 1.40 | 62   | 55078    | 21.23  | ug/l  | 98     |
| 5) Bromomethane               | 1.64 | 94   | 24881    | 18.85  | ug/l  | 97     |
| 6) Chloroethane               | 1.72 | 64   | 35330    | 22.03  | ug/l  | 99     |
| 7) Trichlorofluoromethane     | 1.93 | 101  | 87355    | 19.97  | ug/l  | 99     |
| 8) Diethyl Ether              | 2.19 | 74   | 33265    | 20.91  | ug/l  | 94     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.39 | 101  | 51274    | 20.22  | ug/l  | 97     |
| 10) Methyl Iodide             | 2.51 | 142  | 40166    | 19.90  | ug/l  | 98     |
| 11) Tert butyl alcohol        | 3.08 | 59   | 66388    | 105.12 | ug/l  | 99     |
| 12) 1,1-Dichloroethene        | 2.37 | 96   | 46139    | 20.40  | ug/l  | 91     |
| 13) Acrolein                  | 2.30 | 56   | 28451    | 84.12  | ug/l  | 96     |
| 14) Allyl chloride            | 2.73 | 41   | 90599    | 20.32  | ug/l  | 95     |
| 15) Acrylonitrile             | 3.15 | 53   | 144583   | 107.18 | ug/l  | 99     |
| 16) Acetone                   | 2.45 | 43   | 131081   | 99.84  | ug/l  | 97     |
| 17) Carbon Disulfide          | 2.57 | 76   | 120646   | 20.02  | ug/l  | 98     |
| 18) Methyl Acetate            | 2.78 | 43   | 71625    | 19.51  | ug/l  | 97     |
| 19) Methyl tert-butyl Ether   | 3.21 | 73   | 164689   | 20.25  | ug/l  | 100    |
| 20) Methylene Chloride        | 2.86 | 84   | 57036    | 22.32  | ug/l  | 93     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96   | 50560    | 20.52  | ug/l  | 95     |
| 22) Diisopropyl ether         | 3.88 | 45   | 172814   | 20.28  | ug/l  | 98     |
| 23) Vinyl Acetate             | 3.82 | 43   | 764586   | 105.94 | ug/l  | 99     |
| 24) 1,1-Dichloroethane        | 3.70 | 63   | 95420    | 20.60  | ug/l  | 99     |
| 25) 2-Butanone                | 4.71 | 43   | 216232   | 110.98 | ug/l  | 99     |
| 26) 2,2-Dichloropropane       | 4.59 | 77   | 78677    | 20.89  | ug/l  | 98     |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96   | 59888    | 21.68  | ug/l  | 99     |
| 28) Bromochloromethane        | 5.02 | 49   | 44921    | 20.26  | ug/l  | 89     |
| 29) Tetrahydrofuran           | 5.18 | 42   | 137646   | 110.16 | ug/l  | 96     |
| 30) Chloroform                | 5.22 | 83   | 101142   | 21.27  | ug/l  | 97     |
| 31) Cyclohexane               | 5.58 | 56   | 81629    | 20.53  | ug/l  | 99     |
| 32) 1,1,1-Trichloroethane     | 5.50 | 97   | 87972    | 21.03  | ug/l  | 99     |
| 36) 1,1-Dichloropropene       | 5.80 | 75   | 71223    | 20.89  | ug/l  | 97     |
| 37) Ethyl Acetate             | 4.87 | 43   | 81707    | 22.25  | ug/l  | 97     |
| 38) Carbon Tetrachloride      | 5.79 | 117  | 79401    | 21.22  | ug/l  | 97     |

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 Sample : VX0705WBS02  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VX0705WBS02

Manual Integrations  
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sam  
 7/6/2018 4:20:16 PM

Quant Time: Jul 05 17:36:37 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X062518W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jun 25 14:38:05 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 83687    | 21.07  | ug/l  | 98       |
| 40) Benzene                    | 6.15  | 78   | 219551   | 22.16  | ug/l  | 99       |
| 41) Methacrylonitrile          | 5.07  | 41   | 45961    | 21.74  | ug/l  | 98       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 84163    | 21.03  | ug/l  | 98       |
| 43) Isopropyl Acetate          | 6.48  | 43   | 126967   | 20.62  | ug/l  | 98       |
| 44) Trichloroethene            | 7.21  | 130  | 63602    | 21.53  | ug/l  | 98       |
| 45) 1,2-Dichloropropane        | 7.52  | 63   | 57982    | 22.06  | ug/l  | 98       |
| 46) Dibromomethane             | 7.67  | 93   | 39348    | 21.57  | ug/l  | 96       |
| 47) Bromodichloromethane       | 7.90  | 83   | 71602    | 21.24  | ug/l  | 99       |
| 48) Methyl methacrylate        | 7.79  | 41   | 65108    | 20.52  | ug/l  | 95       |
| 49) 1,4-Dioxane                | 7.76  | 88   | 27935    | 452.56 | ug/l  | 96       |
| 51) 4-Methyl-2-Pentanone       | 8.66  | 43   | 421085   | 109.30 | ug/l  | 98       |
| 52) Toluene                    | 8.79  | 92   | 139870   | 22.04  | ug/l  | 99       |
| 53) t-1,3-Dichloropropene      | 8.44  | 75   | 84937    | 22.24  | ug/l  | 98       |
| 54) cis-1,3-Dichloropropene    | 9.05  | 75   | 76269    | 20.76  | ug/l  | 96       |
| 55) 1,1,2-Trichloroethane      | 9.22  | 97   | 57386    | 22.00  | ug/l  | 98       |
| 56) Ethyl methacrylate         | 9.19  | 69   | 81421    | 21.36  | ug/l  | 93       |
| 57) 1,3-Dichloropropane        | 9.38  | 76   | 94388    | 22.03  | ug/l  | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.32  | 63   | 212727   | 115.68 | ug/l  | 97       |
| 59) 2-Hexanone                 | 9.50  | 43   | 325976   | 111.33 | ug/l  | 97       |
| 60) Dibromochloromethane       | 9.59  | 129  | 59262    | 21.58  | ug/l  | 100      |
| 61) 1,2-Dibromoethane          | 9.68  | 107  | 60851    | 22.24  | ug/l  | 100      |
| 64) Tetrachloroethene          | 9.34  | 164  | 72064    | 21.44  | ug/l  | 99       |
| 65) Chlorobenzene              | 10.14 | 112  | 163770   | 21.33  | ug/l  | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.23 | 131  | 59611    | 21.37  | ug/l  | 98       |
| 67) Ethyl Benzene              | 10.26 | 91   | 268396   | 21.16  | ug/l  | 99       |
| 68) m/p-Xylenes                | 10.36 | 106  | 209380   | 42.83  | ug/l  | 98       |
| 69) o-Xylene                   | 10.70 | 106  | 100874   | 21.19  | ug/l  | 98       |
| 70) Styrene                    | 10.71 | 104  | 167504   | 21.66  | ug/l  | 99       |
| 71) Bromoform                  | 10.86 | 173  | 46981    | 21.09  | ug/l  | 98       |
| 73) Isopropylbenzene           | 11.02 | 105  | 279125   | 22.39  | ug/l  | 99       |
| 74) N-amyl acetate             | 6.48  | 43   | 126967   | 20.82  | ug/l  | # 98     |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 87044    | 22.67  | ug/l  | 99       |
| 76) 1,2,3-Trichloropropane     | 11.30 | 75   | 74788m   | 22.28  | ug/l  |          |
| 77) Bromobenzene               | 11.26 | 156  | 78073    | 21.99  | ug/l  | 96       |
| 78) n-propylbenzene            | 11.36 | 91   | 310064   | 21.85  | ug/l  | 98       |
| 79) 2-Chlorotoluene            | 11.43 | 91   | 187856   | 21.87  | ug/l  | 98       |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 232738   | 22.17  | ug/l  | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.08 | 75   | 20982    | 20.28  | ug/l  | 94       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 219674   | 21.60  | ug/l  | 99       |
| 83) tert-Butylbenzene          | 11.77 | 119  | 226085   | 21.85  | ug/l  | 97       |
| 84) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 240541   | 22.11  | ug/l  | 98       |
| 85) sec-Butylbenzene           | 11.95 | 105  | 272378   | 21.70  | ug/l  | 99       |
| 86) p-Isopropyltoluene         | 12.07 | 119  | 243565   | 21.58  | ug/l  | 99       |
| 87) 1,3-Dichlorobenzene        | 12.03 | 146  | 138471   | 21.36  | ug/l  | 99       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 140035   | 20.99  | ug/l  | 100      |
| 89) n-Butylbenzene             | 12.39 | 91   | 197461   | 20.10  | ug/l  | 100      |
| 90) Hexachloroethane           | 12.60 | 117  | 33647    | 20.05  | ug/l  | 98       |
| 91) 1,2-Dichlorobenzene        | 12.40 | 146  | 140062   | 21.40  | ug/l  | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.01 | 75   | 17448    | 20.21  | ug/l  | 93       |

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Sample : VX0705WBS02  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0705WBS02

Manual Integrations  
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7/6/2018 4:20:16 PM

Quant Time: Jul 05 17:36:37 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X062518W.M  
Quant Title : SW846 8260  
QLast Update : Mon Jun 25 14:38:05 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 97889    | 20.55 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 13.79 | 225  | 50397    | 21.22 | ug/l  | 99       |
| 95) Naphthalene            | 13.84 | 128  | 275696   | 21.74 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 101968   | 21.44 | ug/l  | 99       |

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

