

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX022719\  
 Data File : VX007741.D  
 Acq On : 27 Feb 2019 18:31  
 Operator : JC/SP  
 Sample : VX0227WBSD01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0227WBSD01

Manual Integrations  
 APPROVED

MMDadoda  
 2/28/2019 12:22:54 PM

Quant Time: Feb 28 04:41:21 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X022519W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Feb 26 01:53:13 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 294923   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 436629   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 388429   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 197357   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 6.07   | 65  | 174053   | 47.64 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.28% |      |
| 35) Dibromofluoromethane  | 5.50   | 113 | 139253   | 47.71 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.42% |      |
| 50) Toluene-d8            | 8.71   | 98  | 530625   | 47.49 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 94.98% |      |
| 62) 4-Bromofluorobenzene  | 11.13  | 95  | 186093   | 45.37 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 90.74% |      |

## Target Compounds

|                               |      |     |        |         |      | Qvalue |
|-------------------------------|------|-----|--------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 48841  | 17.977  | ug/l | 98     |
| 3) Chloromethane              | 1.33 | 50  | 54505  | 18.104  | ug/l | 99     |
| 4) Vinyl Chloride             | 1.41 | 62  | 57323  | 18.559  | ug/l | 100    |
| 5) Bromomethane               | 1.64 | 94  | 33760  | 16.304  | ug/l | 97     |
| 6) Chloroethane               | 1.72 | 64  | 37097  | 18.799  | ug/l | 98     |
| 7) Trichlorofluoromethane     | 1.93 | 101 | 81104  | 17.128  | ug/l | 100    |
| 8) Diethyl Ether              | 2.19 | 74  | 34996  | 18.009  | ug/l | 89     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.39 | 101 | 48364  | 16.899  | ug/l | 97     |
| 10) Methyl Iodide             | 2.51 | 142 | 64750  | 18.170  | ug/l | 100    |
| 11) Tert butyl alcohol        | 3.07 | 59  | 66488  | 95.924  | ug/l | 97     |
| 12) 1,1-Dichloroethene        | 2.38 | 96  | 45431  | 17.611  | ug/l | 92     |
| 13) Acrolein                  | 2.30 | 56  | 52725  | 85.603  | ug/l | 100    |
| 14) Allyl chloride            | 2.73 | 41  | 94021  | 19.711  | ug/l | 94     |
| 15) Acrylonitrile             | 3.15 | 53  | 164928 | 101.111 | ug/l | 99     |
| 16) Acetone                   | 2.45 | 43  | 153583 | 94.538  | ug/l | 97     |
| 17) Carbon Disulfide          | 2.57 | 76  | 114277 | 15.922  | ug/l | 100    |
| 18) Methyl Acetate            | 2.78 | 43  | 76806  | 21.666  | ug/l | 94     |
| 19) Methyl tert-butyl Ether   | 3.21 | 73  | 168253 | 18.729  | ug/l | 98     |
| 20) Methylene Chloride        | 2.86 | 84  | 52642  | 17.549  | ug/l | 92     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96  | 48913  | 17.441  | ug/l | 91     |
| 22) Diisopropyl ether         | 3.87 | 45  | 195899 | 19.728  | ug/l | 96     |
| 23) Vinyl Acetate             | 3.82 | 43  | 842943 | 96.757  | ug/l | 96     |
| 24) 1,1-Dichloroethane        | 3.70 | 63  | 101991 | 18.899  | ug/l | 99     |
| 25) 2-Butanone                | 4.70 | 43  | 252215 | 101.920 | ug/l | 94     |
| 26) 2,2-Dichloropropane       | 4.59 | 77  | 69179  | 16.059  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96  | 61601  | 17.262  | ug/l | 91     |
| 28) Bromochloromethane        | 5.02 | 49  | 57306  | 21.812  | ug/l | 84     |
| 29) Tetrahydrofuran           | 5.15 | 42  | 165765 | 101.621 | ug/l | 92     |
| 30) Chloroform                | 5.21 | 83  | 103454 | 17.896  | ug/l | 96     |
| 31) Cyclohexane               | 5.57 | 56  | 91194  | 17.965  | ug/l | 96     |
| 32) 1,1,1-Trichloroethane     | 5.50 | 97  | 84087  | 17.589  | ug/l | 97     |
| 36) 1,1-Dichloropropene       | 5.80 | 75  | 74806  | 19.057  | ug/l | 97     |
| 37) Ethyl Acetate             | 4.85 | 43  | 93066  | 21.343  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 5.78 | 117 | 71172  | 18.049  | ug/l | 99     |

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 Sample : VX0227WBSD01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0227WBSD01

Manual Integrations  
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MMDadoda  
 2/28/2019 12:22:54 PM

Quant Time: Feb 28 04:41:21 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X022519W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Feb 26 01:53:13 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 88014    | 17.740  | ug/l   | 93       |
| 40) Benzene                    | 6.14  | 78   | 234448   | 19.348  | ug/l   | 99       |
| 41) Methacrylonitrile          | 5.06  | 41   | 52444    | 22.523  | ug/l   | 96       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 84922    | 20.851  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 6.46  | 43   | 140520   | 20.938  | ug/l   | 97       |
| 44) Trichloroethene            | 7.21  | 130  | 63124    | 18.937  | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 7.52  | 63   | 62551    | 19.927  | ug/l   | 99       |
| 46) Dibromomethane             | 7.67  | 93   | 39266    | 17.931  | ug/l   | 99       |
| 47) Bromodichloromethane       | 7.90  | 83   | 69611    | 18.343  | ug/l   | 99       |
| 48) Methyl methacrylate        | 7.77  | 41   | 75654    | 21.506  | ug/l   | 91       |
| 49) 1,4-Dioxane                | 7.75  | 88   | 29774    | 391.868 | ug/l   | 92       |
| 51) 4-Methyl-2-Pentanone       | 8.65  | 43   | 475366   | 105.819 | ug/l   | 99       |
| 52) Toluene                    | 8.78  | 92   | 143906   | 18.833  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 74678    | 17.744  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 84997    | 18.456  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 60716    | 19.055  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 89111    | 19.666  | ug/l   | 95       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 100045   | 19.614  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 260640   | 104.306 | ug/l   | 97       |
| 59) 2-Hexanone                 | 9.49  | 43   | 362560   | 102.800 | ug/l   | 98       |
| 60) Dibromochloromethane       | 9.58  | 129  | 55933    | 18.243  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 62747    | 18.966  | ug/l   | 100      |
| 64) Tetrachloroethene          | 9.34  | 164  | 65052    | 20.630  | ug/l   | 96       |
| 65) Chlorobenzene              | 10.13 | 112  | 158689   | 18.889  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 56026    | 19.119  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.25 | 91   | 264300   | 18.992  | ug/l   | 99       |
| 68) m/p-Xylenes                | 10.36 | 106  | 202762   | 37.451  | ug/l   | 95       |
| 69) o-Xylene                   | 10.69 | 106  | 98409    | 18.897  | ug/l   | 95       |
| 70) Styrene                    | 10.71 | 104  | 162651   | 19.002  | ug/l   | 98       |
| 71) Bromoform                  | 10.85 | 173  | 41131    | 18.717  | ug/l # | 98       |
| 73) Isopropylbenzene           | 11.02 | 105  | 263473   | 18.679  | ug/l   | 100      |
| 74) N-amyl acetate             | 10.90 | 43   | 119718   | 19.545  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 88925    | 18.228  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 76385m   | 18.158  | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 70936    | 20.050  | ug/l   | 93       |
| 78) n-propylbenzene            | 11.36 | 91   | 293326   | 18.403  | ug/l   | 98       |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 178308   | 18.579  | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 219486   | 18.917  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 22756    | 16.633  | ug/l   | 89       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 203186   | 18.098  | ug/l   | 97       |
| 83) tert-Butylbenzene          | 11.77 | 119  | 210474   | 18.894  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 224563   | 18.922  | ug/l   | 98       |
| 85) sec-Butylbenzene           | 11.94 | 105  | 257439   | 18.442  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 229395   | 18.764  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 122810   | 18.714  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 124552   | 18.532  | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.38 | 91   | 190125   | 17.438  | ug/l   | 99       |
| 90) Hexachloroethane           | 12.60 | 117  | 34296    | 16.650  | ug/l   | 93       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 125277   | 19.079  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 18293    | 17.209  | ug/l   | 93       |

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Sample : VX0227WBSD01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0227WBSD01

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2/28/2019 12:22:54 PM

Quant Time: Feb 28 04:41:21 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X022519W.M  
Quant Title : SW846 8260  
QLast Update : Tue Feb 26 01:53:13 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 82353    | 20.547 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 46102    | 25.143 | ug/l  | 98       |
| 95) Naphthalene            | 13.83 | 128  | 252480   | 19.443 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 85010    | 21.123 | ug/l  | 99       |

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

