

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX021120\  
 Data File : VX014907.D  
 Acq On : 11 Feb 2020 11:28  
 Operator : JC/SP  
 Sample : VX0211WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0211WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 2/12/2020 3:04:16 PM

Quant Time: Feb 12 05:56:59 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X021020W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 10 12:09:20 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 462625   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 669708   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 623682   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 331510   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 6.05   | 65  | 248322   | 47.56 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.12% |      |
| 35) Dibromofluoromethane  | 5.48   | 113 | 199448   | 48.44 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.88% |      |
| 50) Toluene-d8            | 8.71   | 98  | 778291   | 49.52 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.04% |      |
| 62) 4-Bromofluorobenzene  | 11.13  | 95  | 279162   | 49.31 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.62% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.19 | 85  | 89535   | 20.436  | ug/l | 99     |
| 3) Chloromethane              | 1.32 | 50  | 96216   | 19.371  | ug/l | 99     |
| 4) Vinyl Chloride             | 1.40 | 62  | 99801   | 18.652  | ug/l | 98     |
| 5) Bromomethane               | 1.64 | 94  | 65647   | 18.954  | ug/l | 99     |
| 6) Chloroethane               | 1.72 | 64  | 64147   | 18.736  | ug/l | 97     |
| 7) Trichlorofluoromethane     | 1.93 | 101 | 145887  | 19.514  | ug/l | 97     |
| 8) Diethyl Ether              | 2.18 | 74  | 57187   | 18.447  | ug/l | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.38 | 101 | 81560   | 18.795  | ug/l | 99     |
| 10) Methyl Iodide             | 2.50 | 142 | 82317   | 19.898  | ug/l | 99     |
| 11) Tert butyl alcohol        | 3.02 | 59  | 93135   | 101.030 | ug/l | 98     |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 79692   | 18.793  | ug/l | 99     |
| 13) Acrolein                  | 2.28 | 56  | 58690   | 83.532  | ug/l | 95     |
| 14) Allyl chloride            | 2.72 | 41  | 135927  | 18.080  | ug/l | 98     |
| 15) Acrylonitrile             | 3.12 | 53  | 227143  | 97.195  | ug/l | 100    |
| 16) Acetone                   | 2.43 | 43  | 250257  | 81.881  | ug/l | 98     |
| 17) Carbon Disulfide          | 2.56 | 76  | 215566  | 18.195  | ug/l | 99     |
| 18) Methyl Acetate            | 2.76 | 43  | 100334  | 19.081  | ug/l | 98     |
| 19) Methyl tert-butyl Ether   | 3.18 | 73  | 264040  | 19.133  | ug/l | 99     |
| 20) Methylene Chloride        | 2.85 | 84  | 89135   | 17.747  | ug/l | 98     |
| 21) trans-1,2-Dichloroethene  | 3.16 | 96  | 86476   | 18.482  | ug/l | 98     |
| 22) Diisopropyl ether         | 3.84 | 45  | 273898  | 19.075  | ug/l | 98     |
| 23) Vinyl Acetate             | 3.80 | 43  | 1164991 | 98.421  | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 3.69 | 63  | 154425  | 19.056  | ug/l | 98     |
| 25) 2-Butanone                | 4.65 | 43  | 334761  | 94.179  | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 4.57 | 77  | 127254  | 18.221  | ug/l | 98     |
| 27) cis-1,2-Dichloroethene    | 4.58 | 96  | 97258   | 18.595  | ug/l | 99     |
| 28) Bromochloromethane        | 5.00 | 49  | 57318   | 18.248  | ug/l | 95     |
| 29) Tetrahydrofuran           | 5.11 | 42  | 200420  | 99.187  | ug/l | 98     |
| 30) Chloroform                | 5.20 | 83  | 153556  | 19.098  | ug/l | 97     |
| 31) Cyclohexane               | 5.57 | 56  | 137708  | 18.657  | ug/l | 97     |
| 32) 1,1,1-Trichloroethane     | 5.48 | 97  | 133043  | 18.916  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 5.79 | 75  | 116592  | 19.462  | ug/l | 99     |
| 37) Ethyl Acetate             | 4.81 | 43  | 124301  | 19.894  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 5.77 | 117 | 112965  | 19.349  | ug/l | 97     |

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 Sample : VX0211WBS01  
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 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VX0211WBS01

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MMDadoda  
 2/12/2020 3:04:16 PM

Quant Time: Feb 12 05:56:59 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X021020W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 10 12:09:20 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 39) Methylcyclohexane          | 7.45  | 83   | 143485   | 19.151  | ug/l  | 99       |
| 40) Benzene                    | 6.13  | 78   | 350268   | 19.569  | ug/l  | 100      |
| 41) Methacrylonitrile          | 5.03  | 41   | 68159    | 20.249  | ug/l  | 99       |
| 42) 1,2-Dichloroethane         | 6.18  | 62   | 124712   | 19.277  | ug/l  | 99       |
| 43) Isopropyl Acetate          | 6.43  | 43   | 203940   | 19.786  | ug/l  | 99       |
| 44) Trichloroethene            | 7.20  | 130  | 100298   | 19.302  | ug/l  | 98       |
| 45) 1,2-Dichloropropane        | 7.50  | 63   | 87633    | 19.197  | ug/l  | 99       |
| 46) Dibromomethane             | 7.65  | 93   | 58804    | 18.845  | ug/l  | 99       |
| 47) Bromodichloromethane       | 7.89  | 83   | 115610   | 18.686  | ug/l  | 99       |
| 48) Methyl methacrylate        | 7.76  | 41   | 98277    | 19.374  | ug/l  | 98       |
| 49) 1,4-Dioxane                | 7.73  | 88   | 41811    | 440.853 | ug/l  | 97       |
| 51) 4-Methyl-2-Pentanone       | 8.63  | 43   | 626780   | 100.707 | ug/l  | 99       |
| 52) Toluene                    | 8.78  | 92   | 222375   | 19.561  | ug/l  | 98       |
| 53) t-1,3-Dichloropropene      | 9.03  | 75   | 127134   | 18.750  | ug/l  | 99       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 140845   | 18.803  | ug/l  | 99       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 89958    | 19.558  | ug/l  | 98       |
| 56) Ethyl methacrylate         | 9.17  | 69   | 136106   | 19.687  | ug/l  | 98       |
| 57) 1,3-Dichloropropane        | 9.36  | 76   | 148925   | 19.235  | ug/l  | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.30  | 63   | 357488   | 98.874  | ug/l  | 99       |
| 59) 2-Hexanone                 | 9.48  | 43   | 492838   | 100.744 | ug/l  | 100      |
| 60) Dibromochloromethane       | 9.57  | 129  | 93699    | 18.930  | ug/l  | 98       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 93159    | 18.772  | ug/l  | 97       |
| 64) Tetrachloroethene          | 9.33  | 164  | 107466   | 18.430  | ug/l  | 96       |
| 65) Chlorobenzene              | 10.13 | 112  | 242875   | 19.200  | ug/l  | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 90116    | 19.622  | ug/l  | 98       |
| 67) Ethyl Benzene              | 10.25 | 91   | 416386   | 19.355  | ug/l  | 98       |
| 68) m/p-Xylenes                | 10.36 | 106  | 321353   | 38.774  | ug/l  | 100      |
| 69) o-Xylene                   | 10.69 | 106  | 155816   | 19.558  | ug/l  | 99       |
| 70) Styrene                    | 10.71 | 104  | 260765   | 19.348  | ug/l  | 99       |
| 71) Bromoform                  | 10.85 | 173  | 69949    | 18.248  | ug/l  | 96       |
| 73) Isopropylbenzene           | 11.01 | 105  | 414763   | 19.951  | ug/l  | 100      |
| 74) N-amyl acetate             | 10.89 | 43   | 171129   | 19.811  | ug/l  | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.26 | 83   | 132100   | 19.438  | ug/l  | 99       |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 113244m  | 18.890  | ug/l  |          |
| 77) Bromobenzene               | 11.25 | 156  | 111379   | 19.195  | ug/l  | 97       |
| 78) n-propylbenzene            | 11.35 | 91   | 468828   | 19.498  | ug/l  | 99       |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 276377   | 19.552  | ug/l  | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.50 | 105  | 347627   | 20.012  | ug/l  | 98       |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 41948    | 17.911  | ug/l  | 94       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 325986   | 19.473  | ug/l  | 100      |
| 83) tert-Butylbenzene          | 11.76 | 119  | 329986   | 20.061  | ug/l  | 98       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 348691   | 19.919  | ug/l  | 99       |
| 85) sec-Butylbenzene           | 11.94 | 105  | 402380   | 19.691  | ug/l  | 99       |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 373947   | 19.555  | ug/l  | 100      |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 196811   | 18.907  | ug/l  | 99       |
| 88) 1,4-Dichlorobenzene        | 12.09 | 146  | 198932   | 18.714  | ug/l  | 99       |
| 89) n-Butylbenzene             | 12.39 | 91   | 317001   | 18.510  | ug/l  | 100      |
| 90) Hexachloroethane           | 12.59 | 117  | 62900    | 18.835  | ug/l  | 98       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 191578   | 18.767  | ug/l  | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 12.99 | 75   | 29031    | 18.209  | ug/l  | 98       |

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ALS Vial : 5 Sample Multiplier: 1

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MSVOA\_X  
ClientSampleId :  
VX0211WBS01

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X021020W.M  
Quant Title : SW846 8260  
QLast Update : Mon Feb 10 12:09:20 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.64 | 180  | 136611   | 18.130 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 67925    | 18.638 | ug/l  | 97       |
| 95) Naphthalene            | 13.83 | 128  | 389217   | 19.428 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.01 | 180  | 136376   | 18.734 | ug/l  | 98       |

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

