

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX012119\  
 Data File : VX007157.D  
 Acq On : 21 Jan 2019 14:29  
 Operator : JC/SP  
 Sample : VX0121WBSD01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0121WBSD01

Manual Integrations  
 APPROVED

MMDadoda  
 1/22/2019 10:56:15 AM

Quant Time: Jan 22 00:55:56 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X010819W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 08 14:06:59 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 456814   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 677604   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 630516   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 331312   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.07   | 65  | 240584   | 50.39 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.78% |      |
| 35) Dibromofluoromethane  | 5.50   | 113 | 214900   | 49.52 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.04%  |      |
| 50) Toluene-d8            | 8.71   | 98  | 795410   | 50.08 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.16% |      |
| 62) 4-Bromofluorobenzene  | 11.13  | 95  | 297116   | 53.66 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 107.32% |      |

## Target Compounds

|                               |      |     |        |         |      | Qvalue |
|-------------------------------|------|-----|--------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 67458  | 17.982  | ug/l | 98     |
| 3) Chloromethane              | 1.33 | 50  | 76866  | 17.601  | ug/l | 96     |
| 4) Vinyl Chloride             | 1.41 | 62  | 81920  | 17.439  | ug/l | 96     |
| 5) Bromomethane               | 1.64 | 94  | 84687  | 16.873  | ug/l | 96     |
| 6) Chloroethane               | 1.72 | 64  | 52452  | 15.991  | ug/l | 99     |
| 7) Trichlorofluoromethane     | 1.93 | 101 | 131939 | 17.383  | ug/l | 94     |
| 8) Diethyl Ether              | 2.19 | 74  | 52022  | 17.227  | ug/l | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.39 | 101 | 80829  | 17.787  | ug/l | 99     |
| 10) Methyl Iodide             | 2.51 | 142 | 102289 | 16.687  | ug/l | 98     |
| 11) Tert butyl alcohol        | 3.07 | 59  | 98593  | 87.547  | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 2.38 | 96  | 71956  | 17.139  | ug/l | 93     |
| 13) Acrolein                  | 2.29 | 56  | 57501  | 120.011 | ug/l | 100    |
| 14) Allyl chloride            | 2.73 | 41  | 122850 | 17.073  | ug/l | 99     |
| 15) Acrylonitrile             | 3.15 | 53  | 232162 | 89.801  | ug/l | 99     |
| 16) Acetone                   | 2.45 | 43  | 213420 | 90.426  | ug/l | 100    |
| 17) Carbon Disulfide          | 2.57 | 76  | 148241 | 13.714  | ug/l | 99     |
| 18) Methyl Acetate            | 2.78 | 43  | 127201 | 18.611  | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 3.20 | 73  | 257453 | 17.667  | ug/l | 98     |
| 20) Methylene Chloride        | 2.85 | 84  | 85198  | 18.624  | ug/l | 95     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96  | 76544  | 16.360  | ug/l | 99     |
| 22) Diisopropyl ether         | 3.87 | 45  | 244900 | 18.104  | ug/l | 99     |
| 23) Vinyl Acetate             | 3.82 | 43  | 970154 | 85.043  | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 3.70 | 63  | 134402 | 17.769  | ug/l | 98     |
| 25) 2-Butanone                | 4.70 | 43  | 302590 | 89.602  | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 4.59 | 77  | 97023  | 16.681  | ug/l | 100    |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96  | 88815  | 17.210  | ug/l | 99     |
| 28) Bromochloromethane        | 5.01 | 49  | 66023  | 19.922  | ug/l | 95     |
| 29) Tetrahydrofuran           | 5.15 | 42  | 192305 | 87.624  | ug/l | 97     |
| 30) Chloroform                | 5.21 | 83  | 142300 | 17.969  | ug/l | 98     |
| 31) Cyclohexane               | 5.57 | 56  | 111719 | 16.595  | ug/l | 99     |
| 32) 1,1,1-Trichloroethane     | 5.50 | 97  | 117552 | 17.512  | ug/l | 98     |
| 36) 1,1-Dichloropropene       | 5.81 | 75  | 99184  | 16.836  | ug/l | 97     |
| 37) Ethyl Acetate             | 4.85 | 43  | 113248 | 17.931  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 5.79 | 117 | 100395 | 16.938  | ug/l | 93     |

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 Sample : VX0121WBSD01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VX0121WBSD01

Manual Integrations  
 APPROVED

MMDadoda  
 1/22/2019 10:56:15 AM

Quant Time: Jan 22 00:55:56 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X010819W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 08 14:06:59 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 121881   | 16.228  | ug/l   | 97       |
| 40) Benzene                    | 6.14  | 78   | 309732   | 17.230  | ug/l   | 100      |
| 41) Methacrylonitrile          | 5.06  | 41   | 60695    | 16.681  | ug/l   | 97       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 109747   | 17.668  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 6.46  | 43   | 170136   | 17.078  | ug/l   | 99       |
| 44) Trichloroethene            | 7.21  | 130  | 89752    | 16.662  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 7.51  | 63   | 78565    | 17.385  | ug/l   | 98       |
| 46) Dibromomethane             | 7.66  | 93   | 56669    | 17.842  | ug/l   | 100      |
| 47) Bromodichloromethane       | 7.90  | 83   | 93797    | 17.350  | ug/l   | 97       |
| 48) Methyl methacrylate        | 7.77  | 41   | 88601    | 17.318  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 7.75  | 88   | 43527    | 367.116 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone       | 8.65  | 43   | 605118   | 94.513  | ug/l   | 99       |
| 52) Toluene                    | 8.78  | 92   | 203017   | 17.572  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 98987    | 16.512  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 113172   | 17.095  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 86597    | 18.726  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 120985   | 17.921  | ug/l   | 93       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 138035   | 18.219  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 336108   | 96.828  | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.49  | 43   | 461339   | 94.555  | ug/l   | 97       |
| 60) Dibromochloromethane       | 9.59  | 129  | 79782    | 17.767  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 90933    | 17.861  | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.34  | 164  | 97118    | 17.791  | ug/l   | 94       |
| 65) Chlorobenzene              | 10.14 | 112  | 239657   | 17.427  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 82240    | 17.777  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.25 | 91   | 391410   | 17.241  | ug/l   | 100      |
| 68) m/p-Xylenes                | 10.36 | 106  | 310895   | 34.758  | ug/l   | 100      |
| 69) o-Xylene                   | 10.69 | 106  | 153781   | 17.629  | ug/l   | 98       |
| 70) Styrene                    | 10.71 | 104  | 246918   | 17.872  | ug/l   | 99       |
| 71) Bromoform                  | 10.86 | 173  | 58210    | 17.462  | ug/l # | 98       |
| 73) Isopropylbenzene           | 11.02 | 105  | 406313   | 17.392  | ug/l   | 99       |
| 74) N-amyl acetate             | 10.90 | 43   | 156638   | 16.653  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 127873   | 17.241  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.30 | 75   | 119207m  | 17.755  | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 111820   | 17.371  | ug/l   | 100      |
| 78) n-propylbenzene            | 11.36 | 91   | 450059   | 17.548  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 272240   | 17.634  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 338026   | 17.316  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 29209    | 15.919  | ug/l   | 89       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 314900   | 17.617  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 11.77 | 119  | 331919   | 17.042  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 345768   | 17.614  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 11.94 | 105  | 408813   | 17.576  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 367912   | 17.683  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 199219   | 17.122  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 199665   | 18.204  | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.38 | 91   | 303204   | 17.095  | ug/l   | 98       |
| 90) Hexachloroethane           | 12.60 | 117  | 50091    | 17.112  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 198854   | 17.319  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 25312    | 17.256  | ug/l   | 97       |

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Sample : VX0121WBSD01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0121WBSD01

Manual Integrations  
APPROVED

MMDadoda  
1/22/2019 10:56:15 AM

Quant Time: Jan 22 00:55:56 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X010819W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jan 08 14:06:59 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 133606   | 16.960 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 64826    | 18.544 | ug/l  | 96       |
| 95) Naphthalene            | 13.83 | 128  | 407830   | 17.085 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 134843   | 17.231 | ug/l  | 98       |

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

