

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091819\  
 Data File : VX012478.D  
 Acq On : 18 Sep 2019 16:57  
 Operator : JC/SP  
 Sample : VX0918WBSD01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0918WBSD01

Manual Integrations  
 APPROVED

MMDadoda  
 9/19/2019 1:04:41 PM

Quant Time: Sep 19 07:29:20 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X091719W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 17 15:27:10 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 203236   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 337432   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 296866   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 141945   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.05   | 65  | 142733   | 49.00 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.00%  |      |
| 35) Dibromofluoromethane  | 5.49   | 113 | 103139   | 50.50 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.00% |      |
| 50) Toluene-d8            | 8.71   | 98  | 371752   | 49.18 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.36%  |      |
| 62) 4-Bromofluorobenzene  | 11.14  | 95  | 150159   | 47.84 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.68%  |      |

## Target Compounds

|                               |      |     |        |        |      | Qvalue |
|-------------------------------|------|-----|--------|--------|------|--------|
| 2) Dichlorodifluoromethane    | 1.19 | 85  | 22606  | 16.933 | ug/l | 93     |
| 3) Chloromethane              | 1.32 | 50  | 19318  | 17.289 | ug/l | 99     |
| 4) Vinyl Chloride             | 1.40 | 62  | 21508  | 17.810 | ug/l | 97     |
| 5) Bromomethane               | 1.63 | 94  | 11064  | 23.320 | ug/l | 98     |
| 6) Chloroethane               | 1.72 | 64  | 15240  | 16.127 | ug/l | 95     |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 40020  | 18.078 | ug/l | 99     |
| 8) Diethyl Ether              | 2.18 | 74  | 17307  | 17.309 | ug/l | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101 | 29046  | 18.134 | ug/l | 99     |
| 10) Methyl Iodide             | 2.50 | 142 | 21945  | 18.989 | ug/l | 99     |
| 11) Tert butyl alcohol        | 3.03 | 59  | 63581  | 82.133 | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 2.36 | 96  | 23454  | 18.356 | ug/l | 97     |
| 13) Acrolein                  | 2.28 | 56  | 17174  | 65.908 | ug/l | 98     |
| 14) Allyl chloride            | 2.72 | 41  | 51441  | 17.292 | ug/l | 99     |
| 15) Acrylonitrile             | 3.13 | 53  | 112948 | 89.484 | ug/l | 99     |
| 16) Acetone                   | 2.43 | 43  | 123648 | 87.738 | ug/l | 99     |
| 17) Carbon Disulfide          | 2.56 | 76  | 26946  | 16.179 | ug/l | 96     |
| 18) Methyl Acetate            | 2.76 | 43  | 53809  | 17.728 | ug/l | 96     |
| 19) Methyl tert-butyl Ether   | 3.19 | 73  | 123916 | 17.787 | ug/l | 100    |
| 20) Methylene Chloride        | 2.84 | 84  | 31246  | 17.725 | ug/l | 95     |
| 21) trans-1,2-Dichloroethene  | 3.16 | 96  | 23909  | 18.019 | ug/l | 94     |
| 22) Diisopropyl ether         | 3.84 | 45  | 122653 | 17.609 | ug/l | 99     |
| 23) Vinyl Acetate             | 3.80 | 43  | 511754 | 89.316 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 3.69 | 63  | 60378  | 18.117 | ug/l | 98     |
| 25) 2-Butanone                | 4.66 | 43  | 172149 | 85.202 | ug/l | 98     |
| 26) 2,2-Dichloropropane       | 4.58 | 77  | 56463  | 17.227 | ug/l | 98     |
| 27) cis-1,2-Dichloroethene    | 4.59 | 96  | 35734  | 18.028 | ug/l | 99     |
| 28) Bromochloromethane        | 5.00 | 49  | 32174  | 18.727 | ug/l | 96     |
| 29) Tetrahydrofuran           | 5.12 | 42  | 101080 | 90.558 | ug/l | 98     |
| 30) Chloroform                | 5.20 | 83  | 67242  | 17.569 | ug/l | 98     |
| 31) Cyclohexane               | 5.58 | 56  | 36245  | 18.017 | ug/l | 99     |
| 32) 1,1,1-Trichloroethane     | 5.48 | 97  | 56882  | 17.782 | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 5.79 | 75  | 36103  | 17.605 | ug/l | 95     |
| 37) Ethyl Acetate             | 4.83 | 43  | 59036  | 18.754 | ug/l | 97     |
| 38) Carbon Tetrachloride      | 5.78 | 117 | 45325  | 17.771 | ug/l | 96     |

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 Operator : JC/SP  
 Sample : VX0918WBSD01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0918WBSD01

Manual Integrations  
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MMDadoda  
 9/19/2019 1:04:41 PM

Quant Time: Sep 19 07:29:20 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X091719W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 17 15:27:10 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.45  | 83   | 36545    | 18.331  | ug/l   | 95       |
| 40) Benzene                    | 6.14  | 78   | 119877   | 18.382  | ug/l   | 97       |
| 41) Methacrylonitrile          | 5.03  | 41   | 34289    | 16.917  | ug/l   | 97       |
| 42) 1,2-Dichloroethane         | 6.18  | 62   | 54758    | 18.104  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 6.43  | 43   | 100386   | 17.768  | ug/l   | 99       |
| 44) Trichloroethene            | 7.21  | 130  | 32302    | 18.830  | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 7.51  | 63   | 36473    | 18.204  | ug/l   | 97       |
| 46) Dibromomethane             | 7.65  | 93   | 23537    | 18.154  | ug/l   | 97       |
| 47) Bromodichloromethane       | 7.89  | 83   | 50210    | 17.393  | ug/l   | 98       |
| 48) Methyl methacrylate        | 7.76  | 41   | 45585    | 17.116  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 7.73  | 88   | 22426    | 345.972 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 8.64  | 43   | 326596   | 88.146  | ug/l   | 97       |
| 52) Toluene                    | 8.78  | 92   | 79627    | 18.949  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 51927    | 17.304  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 54817    | 17.645  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 40151    | 18.546  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 9.17  | 69   | 59852    | 17.682  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 64339    | 18.627  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 175489   | 100.158 | ug/l   | 99       |
| 59) 2-Hexanone                 | 9.48  | 43   | 254455   | 88.027  | ug/l   | 98       |
| 60) Dibromochloromethane       | 9.58  | 129  | 39472    | 17.900  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 36919    | 18.672  | ug/l   | 97       |
| 64) Tetrachloroethene          | 9.33  | 164  | 28988    | 21.309  | ug/l   | 92       |
| 65) Chlorobenzene              | 10.14 | 112  | 89828    | 18.333  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 38318    | 18.843  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.25 | 91   | 157282   | 18.684  | ug/l   | 100      |
| 68) m/p-Xylenes                | 10.35 | 106  | 115507   | 37.711  | ug/l   | 100      |
| 69) o-Xylene                   | 10.70 | 106  | 60415    | 19.180  | ug/l   | 99       |
| 70) Styrene                    | 10.71 | 104  | 104795   | 18.803  | ug/l   | 100      |
| 71) Bromoform                  | 10.85 | 173  | 26187    | 16.968  | ug/l # | 97       |
| 73) Isopropylbenzene           | 11.01 | 105  | 166180   | 18.659  | ug/l   | 99       |
| 74) N-amyl acetate             | 10.89 | 43   | 85130    | 17.754  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.26 | 83   | 63595    | 18.203  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 61804m   | 18.955  | ug/l   |          |
| 77) Bromobenzene               | 11.25 | 156  | 42400    | 19.521  | ug/l   | 97       |
| 78) n-propylbenzene            | 11.35 | 91   | 183566   | 18.493  | ug/l   | 98       |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 120187   | 18.612  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.50 | 105  | 143696   | 18.918  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 18063    | 17.363  | ug/l   | 92       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 139777   | 18.860  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 11.77 | 119  | 147195   | 18.085  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 146253   | 18.753  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.94 | 105  | 164105   | 18.298  | ug/l   | 98       |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 151274   | 18.369  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 76425    | 18.705  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.09 | 146  | 80290    | 19.130  | ug/l   | 100      |
| 89) n-Butylbenzene             | 12.39 | 91   | 130215   | 17.721  | ug/l   | 99       |
| 90) Hexachloroethane           | 12.59 | 117  | 25071    | 16.603  | ug/l   | 93       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 80651    | 18.886  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 12.99 | 75   | 15675    | 17.306  | ug/l   | 97       |

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Operator : JC/SP  
Sample : VX0918WBSD01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0918WBSD01

Manual Integrations  
APPROVED

MMDadoda  
9/19/2019 1:04:41 PM

Quant Time: Sep 19 07:29:20 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X091719W.M  
Quant Title : SW846 8260  
QLast Update : Tue Sep 17 15:27:10 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.64 | 180  | 51153    | 18.597 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 21820    | 16.831 | ug/l  | 97       |
| 95) Naphthalene            | 13.83 | 128  | 187421   | 19.149 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.01 | 180  | 52829    | 18.847 | ug/l  | 98       |

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

