

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX092818\  
 Data File : VX004812.D  
 Acq On : 28 Sep 2018 09:58  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 10/1/2018 1:31:26 PM

Quant Time: Sep 29 06:33:17 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X092618W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 26 14:17:02 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 246863   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 357308   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 345542   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 218845   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.06   | 65  | 176187   | 49.96 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.92%  |      |
| 35) Dibromofluoromethane  | 5.50   | 113 | 142636   | 47.10 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 94.20%  |      |
| 50) Toluene-d8            | 8.71   | 98  | 552360   | 54.87 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 109.74% |      |
| 62) 4-Bromofluorobenzene  | 11.14  | 95  | 204408   | 56.36 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 112.72% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 203713  | 60.523  | ug/l | 96     |
| 3) Chloromethane              | 1.32 | 50  | 209101  | 51.204  | ug/l | 99     |
| 4) Vinyl Chloride             | 1.40 | 62  | 208194  | 54.358  | ug/l | 99     |
| 5) Bromomethane               | 1.64 | 94  | 131319  | 57.819  | ug/l | 98     |
| 6) Chloroethane               | 1.71 | 64  | 119879  | 57.796  | ug/l | 100    |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 270166  | 56.978  | ug/l | 97     |
| 8) Diethyl Ether              | 2.18 | 74  | 104291  | 50.630  | ug/l | 87     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.38 | 101 | 154777  | 57.305  | ug/l | 98     |
| 10) Methyl Iodide             | 2.51 | 142 | 114069  | 31.561  | ug/l | 98     |
| 11) Tert butyl alcohol        | 3.07 | 59  | 244861  | 248.331 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 140795  | 52.637  | ug/l | 96     |
| 13) Acrolein                  | 2.29 | 56  | 141200  | 201.268 | ug/l | 97     |
| 14) Allyl chloride            | 2.73 | 41  | 318932  | 54.647  | ug/l | 95     |
| 15) Acrylonitrile             | 3.15 | 53  | 556506  | 256.381 | ug/l | 98     |
| 16) Acetone                   | 2.45 | 43  | 566205  | 275.016 | ug/l | 96     |
| 17) Carbon Disulfide          | 2.57 | 76  | 421683  | 52.464  | ug/l | 98     |
| 18) Methyl Acetate            | 2.78 | 43  | 281017  | 53.874  | ug/l | 93     |
| 19) Methyl tert-butyl Ether   | 3.20 | 73  | 503766  | 54.600  | ug/l | 97     |
| 20) Methylene Chloride        | 2.85 | 84  | 162102  | 54.224  | ug/l | 94     |
| 21) trans-1,2-Dichloroethene  | 3.16 | 96  | 153061  | 52.273  | ug/l | 96     |
| 22) Diisopropyl ether         | 3.87 | 45  | 532597  | 54.193  | ug/l | 91     |
| 23) Vinyl Acetate             | 3.82 | 43  | 2417849 | 268.771 | ug/l | 95     |
| 24) 1,1-Dichloroethane        | 3.69 | 63  | 303127  | 51.707  | ug/l | 98     |
| 25) 2-Butanone                | 4.70 | 43  | 780228  | 257.099 | ug/l | 93     |
| 26) 2,2-Dichloropropane       | 4.58 | 77  | 227565  | 55.744  | ug/l | 100    |
| 27) cis-1,2-Dichloroethene    | 4.59 | 96  | 165061  | 50.461  | ug/l | 94     |
| 28) Bromochloromethane        | 5.01 | 49  | 130501  | 47.272  | ug/l | 89     |
| 29) Tetrahydrofuran           | 5.15 | 42  | 493021  | 261.383 | ug/l | 91     |
| 30) Chloroform                | 5.21 | 83  | 275890  | 49.795  | ug/l | 100    |
| 31) Cyclohexane               | 5.57 | 56  | 265739  | 59.226  | ug/l | 94     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97  | 238567  | 52.724  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 5.80 | 75  | 213223  | 51.607  | ug/l | 99     |
| 37) Ethyl Acetate             | 4.85 | 43  | 269088  | 49.065  | ug/l | 97     |
| 38) Carbon Tetrachloride      | 5.78 | 117 | 211320  | 48.657  | ug/l | 99     |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
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MMDadoda  
 10/1/2018 1:31:26 PM

Quant Time: Sep 29 06:33:17 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X092618W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 26 14:17:02 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 265038   | 62.822   | ug/l   | 94       |
| 40) Benzene                    | 6.14  | 78   | 633778   | 48.998   | ug/l   | 98       |
| 41) Methacrylonitrile          | 5.06  | 41   | 154361   | 50.752   | ug/l   | 94       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 223872   | 48.959   | ug/l   | 96       |
| 43) Isopropyl Acetate          | 6.46  | 43   | 403498   | 50.974   | ug/l   | 96       |
| 44) Trichloroethene            | 7.21  | 130  | 169115   | 53.184   | ug/l   | 93       |
| 45) 1,2-Dichloropropane        | 7.51  | 63   | 170850   | 53.861   | ug/l   | 99       |
| 46) Dibromomethane             | 7.66  | 93   | 107585   | 53.968   | ug/l   | 97       |
| 47) Bromodichloromethane       | 7.90  | 83   | 207153   | 55.502   | ug/l   | 98       |
| 48) Methyl methacrylate        | 7.77  | 41   | 215172   | 59.889   | ug/l   | 94       |
| 49) 1,4-Dioxane                | 7.75  | 88   | 92685    | 1038.361 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone       | 8.65  | 43   | 1438631  | 288.641  | ug/l   | 95       |
| 52) Toluene                    | 8.79  | 92   | 397496   | 55.926   | ug/l   | 97       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 238890   | 56.640   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 259681   | 58.781   | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 160651   | 51.601   | ug/l   | 95       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 256575   | 50.741   | ug/l   | 94       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 273861   | 52.853   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 725839   | 269.404  | ug/l   | 93       |
| 59) 2-Hexanone                 | 9.50  | 43   | 1162228  | 279.826  | ug/l   | 93       |
| 60) Dibromochloromethane       | 9.59  | 129  | 166040   | 53.328   | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 167439   | 50.218   | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.34  | 164  | 161151   | 47.385   | ug/l   | 97       |
| 65) Chlorobenzene              | 10.14 | 112  | 440922   | 49.762   | ug/l   | 95       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 156737   | 50.316   | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.25 | 91   | 762225   | 54.184   | ug/l   | 97       |
| 68) m/p-Xylenes                | 10.36 | 106  | 600437   | 109.227  | ug/l   | 96       |
| 69) o-Xylene                   | 10.70 | 106  | 284584   | 56.363   | ug/l   | 97       |
| 70) Styrene                    | 10.71 | 104  | 483028   | 51.101   | ug/l   | 97       |
| 71) Bromoform                  | 10.86 | 173  | 136541   | 51.199   | ug/l # | 99       |
| 73) Isopropylbenzene           | 11.02 | 105  | 772470   | 56.000   | ug/l   | 99       |
| 74) N-amyl acetate             | 10.90 | 43   | 373603   | 49.301   | ug/l   | 93       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 267247   | 47.594   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.30 | 75   | 249486m  | 50.862   | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 203026   | 50.673   | ug/l   | 97       |
| 78) n-propylbenzene            | 11.36 | 91   | 913039   | 57.688   | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 525761   | 53.294   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 661477   | 52.330   | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 80891    | 45.177   | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 637746   | 54.922   | ug/l   | 99       |
| 83) tert-Butylbenzene          | 11.77 | 119  | 652297   | 57.435   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 685854   | 52.614   | ug/l   | 97       |
| 85) sec-Butylbenzene           | 11.94 | 105  | 796150   | 57.553   | ug/l   | 98       |
| 86) p-Isopropyltoluene         | 12.07 | 119  | 726832   | 57.993   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 383664   | 51.282   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 390616   | 50.578   | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.39 | 91   | 667953   | 58.683   | ug/l   | 98       |
| 90) Hexachloroethane           | 12.60 | 117  | 114988   | 55.104   | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 385323   | 49.284   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 63636    | 51.615   | ug/l   | 94       |

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Operator : JC/MD  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
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MMDadoda  
10/1/2018 1:31:26 PM

Quant Time: Sep 29 06:33:17 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X092618W.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 26 14:17:02 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 298331   | 54.395 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.79 | 225  | 150464   | 52.905 | ug/l  | 97       |
| 95) Naphthalene            | 13.83 | 128  | 913863   | 50.200 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 299157   | 52.802 | ug/l  | 99       |

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

