

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX021119\  
 Data File : VX007457.D  
 Acq On : 11 Feb 2019 10:07  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 2/12/2019 12:14:58 PM

Quant Time: Feb 12 00:12:13 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X020119W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Feb 02 01:32:36 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 515465   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 734810   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 689800   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 370265   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.06   | 65  | 277324   | 50.69 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.38% |      |
| 35) Dibromofluoromethane  | 5.50   | 113 | 257217   | 53.80 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 107.60% |      |
| 50) Toluene-d8            | 8.71   | 98  | 944090   | 53.22 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.44% |      |
| 62) 4-Bromofluorobenzene  | 11.13  | 95  | 344460   | 53.19 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.38% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 318156  | 50.227  | ug/l | 100    |
| 3) Chloromethane              | 1.33 | 50  | 269069  | 46.344  | ug/l | 100    |
| 4) Vinyl Chloride             | 1.41 | 62  | 289157  | 50.766  | ug/l | 100    |
| 5) Bromomethane               | 1.64 | 94  | 268579  | 47.666  | ug/l | 99     |
| 6) Chloroethane               | 1.72 | 64  | 175256  | 47.564  | ug/l | 98     |
| 7) Trichlorofluoromethane     | 1.93 | 101 | 447302  | 50.201  | ug/l | 100    |
| 8) Diethyl Ether              | 2.19 | 74  | 161713  | 48.220  | ug/l | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.39 | 101 | 267161  | 50.407  | ug/l | 99     |
| 10) Methyl Iodide             | 2.51 | 142 | 364363  | 46.733  | ug/l | 99     |
| 11) Tert butyl alcohol        | 3.07 | 59  | 264528  | 233.625 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 234813  | 47.710  | ug/l | 99     |
| 13) Acrolein                  | 2.30 | 56  | 130345  | 245.491 | ug/l | 96     |
| 14) Allyl chloride            | 2.73 | 41  | 402384  | 50.177  | ug/l | 100    |
| 15) Acrylonitrile             | 3.15 | 53  | 687112  | 245.308 | ug/l | 99     |
| 16) Acetone                   | 2.45 | 43  | 685150  | 273.379 | ug/l | 99     |
| 17) Carbon Disulfide          | 2.57 | 76  | 614106  | 47.814  | ug/l | 99     |
| 18) Methyl Acetate            | 2.78 | 43  | 359977  | 55.066  | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 3.20 | 73  | 789152  | 49.493  | ug/l | 97     |
| 20) Methylene Chloride        | 2.86 | 84  | 258371  | 50.475  | ug/l | 99     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96  | 247243  | 47.159  | ug/l | 100    |
| 22) Diisopropyl ether         | 3.87 | 45  | 762065  | 51.663  | ug/l | 97     |
| 23) Vinyl Acetate             | 3.82 | 43  | 3354887 | 274.079 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 3.70 | 63  | 443244  | 52.325  | ug/l | 97     |
| 25) 2-Butanone                | 4.70 | 43  | 926265  | 259.700 | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 4.59 | 77  | 352101  | 54.579  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96  | 277350  | 48.433  | ug/l | 99     |
| 28) Bromochloromethane        | 5.02 | 49  | 195495  | 50.184  | ug/l | 97     |
| 29) Tetrahydrofuran           | 5.15 | 42  | 577944  | 257.644 | ug/l | 99     |
| 30) Chloroform                | 5.21 | 83  | 446928  | 50.561  | ug/l | 97     |
| 31) Cyclohexane               | 5.57 | 56  | 376838  | 49.531  | ug/l | 95     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97  | 393072  | 52.681  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 5.79 | 75  | 326974  | 49.594  | ug/l | 99     |
| 37) Ethyl Acetate             | 4.85 | 43  | 336573  | 50.501  | ug/l | 100    |
| 38) Carbon Tetrachloride      | 5.78 | 117 | 355251  | 55.541  | ug/l | 99     |

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 2/12/2019 12:14:58 PM

Quant Time: Feb 12 00:12:13 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X020119W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Feb 02 01:32:36 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 421912   | 52.892  | ug/l  | 99       |
| 40) Benzene                    | 6.14  | 78   | 987481   | 50.846  | ug/l  | 99       |
| 41) Methacrylonitrile          | 5.06  | 41   | 186026   | 52.080  | ug/l  | 97       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 335430   | 49.918  | ug/l  | 100      |
| 43) Isopropyl Acetate          | 6.46  | 43   | 543783   | 52.861  | ug/l  | 99       |
| 44) Trichloroethene            | 7.21  | 130  | 294100   | 50.281  | ug/l  | 98       |
| 45) 1,2-Dichloropropane        | 7.51  | 63   | 249056   | 51.183  | ug/l  | 100      |
| 46) Dibromomethane             | 7.66  | 93   | 180110   | 50.927  | ug/l  | 98       |
| 47) Bromodichloromethane       | 7.90  | 83   | 330051   | 55.066  | ug/l  | 99       |
| 48) Methyl methacrylate        | 7.77  | 41   | 280290   | 54.472  | ug/l  | 100      |
| 49) 1,4-Dioxane                | 7.75  | 88   | 112853   | 964.641 | ug/l  | 97       |
| 51) 4-Methyl-2-Pentanone       | 8.65  | 43   | 1792472  | 264.688 | ug/l  | 100      |
| 52) Toluene                    | 8.78  | 92   | 641873   | 51.226  | ug/l  | 99       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 375397   | 58.308  | ug/l  | 99       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 406301   | 57.386  | ug/l  | 98       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 268009   | 51.312  | ug/l  | 97       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 388423   | 53.693  | ug/l  | 98       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 427309   | 51.444  | ug/l  | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 1206810  | 316.501 | ug/l  | 99       |
| 59) 2-Hexanone                 | 9.49  | 43   | 1400637  | 265.787 | ug/l  | 100      |
| 60) Dibromochloromethane       | 9.58  | 129  | 297881   | 60.302  | ug/l  | 99       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 294928   | 53.319  | ug/l  | 100      |
| 64) Tetrachloroethene          | 9.34  | 164  | 321368   | 49.429  | ug/l  | 98       |
| 65) Chlorobenzene              | 10.13 | 112  | 747345   | 49.648  | ug/l  | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 280938   | 55.667  | ug/l  | 99       |
| 67) Ethyl Benzene              | 10.25 | 91   | 1253986  | 51.731  | ug/l  | 99       |
| 68) m/p-Xylenes                | 10.36 | 106  | 994556   | 103.213 | ug/l  | 100      |
| 69) o-Xylene                   | 10.69 | 106  | 477683   | 51.518  | ug/l  | 98       |
| 70) Styrene                    | 10.71 | 104  | 777776   | 51.723  | ug/l  | 100      |
| 71) Bromoform                  | 10.85 | 173  | 228880   | 51.571  | ug/l  | 98       |
| 73) Isopropylbenzene           | 11.02 | 105  | 1290249  | 51.279  | ug/l  | 98       |
| 74) N-amyl acetate             | 10.90 | 43   | 495032   | 50.865  | ug/l  | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 380299   | 49.594  | ug/l  | 99       |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 379277m  | 52.662  | ug/l  |          |
| 77) Bromobenzene               | 11.26 | 156  | 347364   | 48.998  | ug/l  | 99       |
| 78) n-propylbenzene            | 11.36 | 91   | 1474387  | 53.437  | ug/l  | 99       |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 841271   | 50.250  | ug/l  | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 1071660  | 52.060  | ug/l  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 124733   | 53.233  | ug/l  | 92       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 994565   | 51.340  | ug/l  | 100      |
| 83) tert-Butylbenzene          | 11.77 | 119  | 1055774  | 51.803  | ug/l  | 100      |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 1103271  | 52.791  | ug/l  | 99       |
| 85) sec-Butylbenzene           | 11.94 | 105  | 1320107  | 53.518  | ug/l  | 100      |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 1195301  | 53.681  | ug/l  | 99       |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 635374   | 49.939  | ug/l  | 99       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 629969   | 48.804  | ug/l  | 99       |
| 89) n-Butylbenzene             | 12.38 | 91   | 1057089  | 55.187  | ug/l  | 100      |
| 90) Hexachloroethane           | 12.60 | 117  | 197561   | 59.283  | ug/l  | 99       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 619311   | 48.911  | ug/l  | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 81367    | 51.031  | ug/l  | 98       |

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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 450177   | 52.720 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 219673   | 52.980 | ug/l  | 99       |
| 95) Naphthalene            | 13.83 | 128  | 1293467  | 51.799 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 439389   | 51.119 | ug/l  | 100      |

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

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