

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX091621\  
 Data File : VX024275.D  
 Acq On : 16 Sep 2021 09:03  
 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  
 9/22/2021 7:39:05 PM

Quant Time: Sep 22 08:35:09 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X091421W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 21 10:52:48 2021  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|------------------------------|--------|-------|----------|----------|--------|----------|
| -----                        |        |       |          |          |        |          |
| Internal Standards           |        |       |          |          |        |          |
| 1) Pentafluorobenzene        | 5.556  | 168   | 188547   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.763  | 114   | 290110   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055 | 117   | 275775   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.024 | 152   | 133603   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.958  | 65    | 131656   | 48.968   | ug/l   | -0.01    |
| Spiked Amount                | 50.000 | Range | 78 - 117 | Recovery | =      | 97.940%  |
| 35) Dibromofluoromethane     | 5.391  | 113   | 98658    | 50.708   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 75 - 124 | Recovery | =      | 101.420% |
| 50) Toluene-d8               | 8.653  | 98    | 370700   | 52.302   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 92 - 112 | Recovery | =      | 104.600% |
| 62) 4-Bromofluorobenzene     | 11.085 | 95    | 151360   | 54.874   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 83 - 123 | Recovery | =      | 109.740% |
| Target Compounds             |        |       |          |          |        |          |
|                              |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.173  | 85    | 92669    | 51.129   | ug/l   | 99       |
| 3) Chloromethane             | 1.295  | 50    | 93858    | 49.590   | ug/l   | 99       |
| 4) Vinyl Chloride            | 1.374  | 62    | 93225    | 49.492   | ug/l   | 98       |
| 5) Bromomethane              | 1.599  | 94    | 53881    | 48.050   | ug/l   | 97       |
| 6) Chloroethane              | 1.679  | 64    | 54456    | 43.768   | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 1.886  | 101   | 144940   | 45.871   | ug/l   | 98       |
| 8) Diethyl Ether             | 2.136  | 74    | 47496    | 43.441   | ug/l   | 88       |
| 9) 1,1,2-Trichlorotrifluo... | 2.331  | 101   | 96326    | 51.893   | ug/l   | 97       |
| 10) Methyl Iodide            | 2.453  | 142   | 129644   | 50.483   | ug/l   | 91       |
| 11) Tert butyl alcohol       | 2.977  | 59    | 122679   | 213.084  | ug/l   | 98       |
| 12) 1,1-Dichloroethene       | 2.319  | 96    | 87826    | 50.519   | ug/l   | 95       |
| 13) Acrolein                 | 2.240  | 56    | 37775    | 213.174  | ug/l   | 97       |
| 14) Allyl chloride           | 2.666  | 41    | 162200   | 51.338   | ug/l   | 90       |
| 15) Acrylonitrile            | 3.069  | 53    | 265538   | 241.466  | ug/l   | 97       |
| 16) Acetone                  | 2.386  | 43    | 335414   | 292.578  | ug/l   | 89       |
| 17) Carbon Disulfide         | 2.514  | 76    | 218728   | 50.205   | ug/l   | 99       |
| 18) Methyl Acetate           | 2.709  | 43    | 170398   | 47.410   | ug/l   | 92       |
| 19) Methyl tert-butyl Ether  | 3.123  | 73    | 323995   | 50.711   | ug/l   | 99       |
| 20) Methylene Chloride       | 2.794  | 84    | 101961   | 46.316   | ug/l   | 90       |
| 21) trans-1,2-Dichloroethene | 3.093  | 96    | 95083    | 49.959   | ug/l   | 96       |
| 22) Diisopropyl ether        | 3.770  | 45    | 326893   | 52.679   | ug/l   | 95       |
| 23) Vinyl Acetate            | 3.727  | 43    | 1324641  | 262.904  | ug/l   | 95       |
| 24) 1,1-Dichloroethane       | 3.617  | 63    | 183485   | 50.391   | ug/l   | 97       |
| 25) 2-Butanone               | 4.568  | 43    | 439553   | 260.318  | ug/l   | 92       |
| 26) 2,2-Dichloropropane      | 4.483  | 77    | 166991   | 52.360   | ug/l   | 96       |
| 27) cis-1,2-Dichloroethene   | 4.489  | 96    | 113443   | 51.612   | ug/l   | 94       |
| 28) Bromochloromethane       | 4.898  | 49    | 76646    | 51.661   | ug/l   | 94       |
| 29) Tetrahydrofuran          | 5.013  | 42    | 252835   | 239.231  | ug/l   | 90       |
| 30) Chloroform               | 5.099  | 83    | 197358   | 50.968   | ug/l   | 99       |
| 31) Cyclohexane              | 5.471  | 56    | 164433   | 52.286   | ug/l   | 95       |
| 32) 1,1,1-Trichloroethane    | 5.385  | 97    | 179778   | 51.876   | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 5.696  | 75    | 144571   | 54.202   | ug/l   | 99       |
| 37) Ethyl Acetate            | 4.721  | 43    | 152404   | 49.037   | ug/l # | 94       |
| 38) Carbon Tetrachloride     | 5.684  | 117   | 161893   | 53.927   | ug/l   | 99       |
| 39) Methylcyclohexane        | 7.385  | 83    | 179410   | 56.339   | ug/l   | 98       |
| 40) Benzene                  | 6.044  | 78    | 406650   | 53.156   | ug/l   | 99       |

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 ALS Vial : 2 Sample Multiplier: 1

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 VSTDCCC050

Manual Integrations  
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Quant Time: Sep 22 08:35:09 2021  
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 Quant Title : SW846 8260  
 QLast Update : Tue Sep 21 10:52:48 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 4.922  | 41   | 85648    | 51.675  | ug/l   | 92       |
| 42) 1,2-Dichloroethane        | 6.092  | 62   | 168523   | 52.828  | ug/l   | 95       |
| 43) Isopropyl Acetate         | 6.349  | 43   | 253494   | 51.238  | ug/l   | 93       |
| 44) Trichloroethene           | 7.129  | 130  | 112554   | 52.365  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 7.434  | 63   | 107445   | 53.214  | ug/l   | 100      |
| 46) Dibromomethane            | 7.586  | 93   | 77040    | 52.126  | ug/l   | 97       |
| 47) Bromodichloromethane      | 7.824  | 83   | 150079   | 54.610  | ug/l   | 98       |
| 48) Methyl methacrylate       | 7.696  | 41   | 127272   | 51.559  | ug/l   | 88       |
| 49) 1,4-Dioxane               | 7.659  | 88   | 50927    | 985.294 | ug/l # | 95       |
| 51) 4-Methyl-2-Pentanone      | 8.580  | 43   | 823521   | 261.220 | ug/l   | 91       |
| 52) Toluene                   | 8.720  | 92   | 270474   | 53.944  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 8.982  | 75   | 172913   | 55.481  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 8.366  | 75   | 178963   | 55.489  | ug/l # | 91       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 110687   | 51.836  | ug/l   | 99       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 177066   | 49.684  | ug/l # | 85       |
| 57) 1,3-Dichloropropane       | 9.311  | 76   | 187434   | 53.898  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 8.245  | 63   | 417151   | 269.948 | ug/l   | 97       |
| 59) 2-Hexanone                | 9.433  | 43   | 690704   | 281.174 | ug/l   | 88       |
| 60) Dibromochloromethane      | 9.525  | 129  | 119599   | 49.409  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 118324   | 52.004  | ug/l   | 99       |
| 64) Tetrachloroethene         | 9.275  | 164  | 116489   | 54.526  | ug/l   | 92       |
| 65) Chlorobenzene             | 10.080 | 112  | 301428   | 53.128  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 10.165 | 131  | 115903   | 55.120  | ug/l   | 99       |
| 67) Ethyl Benzene             | 10.195 | 91   | 550509   | 55.467  | ug/l   | 99       |
| 68) m/p-Xylenes               | 10.305 | 106  | 425836   | 112.070 | ug/l   | 98       |
| 69) o-Xylene                  | 10.647 | 106  | 209884   | 55.335  | ug/l   | 99       |
| 70) Styrene                   | 10.659 | 104  | 355159   | 57.721  | ug/l   | 98       |
| 71) Bromoform                 | 10.805 | 173  | 89276    | 50.863  | ug/l # | 98       |
| 73) Isopropylbenzene          | 10.964 | 105  | 562313   | 56.519  | ug/l   | 99       |
| 74) N-amyl acetate            | 10.848 | 43   | 241411   | 57.640  | ug/l   | 91       |
| 75) 1,1,2,2-Tetrachloroethane | 11.214 | 83   | 173208   | 53.813  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 11.244 | 75   | 167239m  | 54.438  | ug/l   |          |
| 77) Bromobenzene              | 11.201 | 156  | 139069   | 55.618  | ug/l   | 96       |
| 78) n-propylbenzene           | 11.305 | 91   | 658442   | 58.584  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 11.366 | 91   | 393284   | 56.334  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 11.457 | 105  | 483485   | 57.652  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 11.025 | 75   | 58776    | 56.268  | ug/l   | 92       |
| 82) 4-Chlorotoluene           | 11.457 | 91   | 462170   | 58.184  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 11.720 | 119  | 428007   | 52.877  | ug/l   | 95       |
| 84) 1,2,4-Trimethylbenzene    | 11.756 | 105  | 439151   | 53.233  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 514214   | 50.704  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 12.012 | 119  | 458588   | 53.871  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 227924   | 50.889  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 12.043 | 146  | 236456   | 51.722  | ug/l   | 99       |
| 89) n-Butylbenzene            | 12.335 | 91   | 403229   | 54.744  | ug/l   | 98       |
| 90) Hexachloroethane          | 12.543 | 117  | 75075    | 54.738  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 223862   | 50.947  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 31770    | 43.023  | ug/l   | 91       |
| 93) 1,2,4-Trichlorobenzene    | 13.591 | 180  | 139481   | 53.867  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 68331    | 52.846  | ug/l   | 99       |
| 95) Naphthalene               | 13.780 | 128  | 452837   | 47.493  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 145884   | 55.895  | ug/l   | 99       |

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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

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