

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX072021\  
 Data File : VX023359.D  
 Acq On : 20 Jul 2021 17:53  
 Operator : JC/MD  
 Sample : VSTDIC020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC020

Manual Integrations  
 APPROVED

MMDadoda  
 7/21/2021 5:54:01 PM

Quant Time: Jul 21 06:06:59 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X072021W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jul 21 06:04:26 2021  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|------------------------------|--------|-------|----------|----------|--------|----------|
| -----                        |        |       |          |          |        |          |
| Internal Standards           |        |       |          |          |        |          |
| 1) Pentafluorobenzene        | 5.562  | 168   | 92872    | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.769  | 114   | 124008   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055 | 117   | 113613   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.024 | 152   | 59929    | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.964  | 65    | 18706    | 15.165   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 78 - 117 | Recovery | =      | 30.320%# |
| 35) Dibromofluoromethane     | 5.397  | 113   | 14009    | 17.796   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 75 - 124 | Recovery | =      | 35.600%# |
| 50) Toluene-d8               | 8.653  | 98    | 48101    | 14.106   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 92 - 112 | Recovery | =      | 28.220%# |
| 62) 4-Bromofluorobenzene     | 11.085 | 95    | 19744    | 14.533   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 83 - 123 | Recovery | =      | 29.060%# |
| Target Compounds             |        |       |          |          |        |          |
|                              |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.172  | 85    | 18790    | 17.467   | ug/l   | 98       |
| 3) Chloromethane             | 1.294  | 50    | 7731     | 8.259    | ug/l   | 91       |
| 4) Vinyl Chloride            | 1.374  | 62    | 8633     | 8.861    | ug/l   | 100      |
| 5) Bromomethane              | 1.605  | 94    | 7424     | 18.783   | ug/l   | 88       |
| 6) Chloroethane              | 1.685  | 64    | 5068     | 15.685   | ug/l   | 92       |
| 7) Trichlorofluoromethane    | 1.886  | 101   | 21801    | 22.155   | ug/l   | 99       |
| 8) Diethyl Ether             | 2.142  | 74    | 5167     | 20.128   | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 2.337  | 101   | 13171    | 17.529   | ug/l   | 96       |
| 10) Methyl Iodide            | 2.459  | 142   | 15415    | 13.571   | ug/l   | 99       |
| 11) Tert butyl alcohol       | 2.977  | 59    | 18937    | 72.690   | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 2.319  | 96    | 11401    | 15.793   | ug/l   | 94       |
| 13) Acrolein                 | 2.245  | 56    | 4996     | 71.891   | ug/l   | 98       |
| 14) Allyl chloride           | 2.672  | 41    | 13425    | 10.417   | ug/l   | 98       |
| 15) Acrylonitrile            | 3.075  | 53    | 28326    | 59.948   | ug/l   | 100      |
| 16) Acetone                  | 2.386  | 43    | 28092    | 68.849   | ug/l   | 97       |
| 17) Carbon Disulfide         | 2.514  | 76    | 28272    | 14.576   | ug/l   | 98       |
| 18) Methyl Acetate           | 2.715  | 43    | 10835    | 10.337   | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 3.123  | 73    | 47377    | 15.793   | ug/l   | 98       |
| 20) Methylene Chloride       | 2.794  | 84    | 14030    | 13.511   | ug/l   | 94       |
| 21) trans-1,2-Dichloroethene | 3.099  | 96    | 13734    | 15.215   | ug/l   | 90       |
| 22) Diisopropyl ether        | 3.770  | 45    | 26364    | 10.662   | ug/l   | 89       |
| 23) Vinyl Acetate            | 3.733  | 43    | 128841   | 58.644   | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 3.617  | 63    | 21010    | 13.428   | ug/l   | 99       |
| 25) 2-Butanone               | 4.568  | 43    | 38094    | 56.664   | ug/l   | 98       |
| 26) 2,2-Dichloropropane      | 4.489  | 77    | 24495    | 16.427   | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 4.501  | 96    | 15305    | 14.642   | ug/l   | 97       |
| 28) Bromochloromethane       | 4.903  | 49    | 6724     | 10.209   | ug/l   | 98       |
| 29) Tetrahydrofuran          | 5.019  | 42    | 22078    | 52.189   | ug/l   | 99       |
| 30) Chloroform               | 5.105  | 83    | 27344    | 15.385   | ug/l   | 99       |
| 31) Cyclohexane              | 5.477  | 56    | 16052    | 12.184   | ug/l   | 97       |
| 32) 1,1,1-Trichloroethane    | 5.385  | 97    | 29607    | 17.647   | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 5.702  | 75    | 18203    | 17.273   | ug/l   | 97       |
| 37) Ethyl Acetate            | 4.727  | 43    | 14451    | 13.419   | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 5.690  | 117   | 29162    | 22.750   | ug/l   | 94       |
| 39) Methylcyclohexane        | 7.385  | 83    | 21947    | 14.613   | ug/l   | 96       |
| 40) Benzene                  | 6.050  | 78    | 49814    | 16.564   | ug/l   | 94       |

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 Quant Title : SW846 8260  
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 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 4.928  | 41   | 7251     | 12.641  | ug/l   | 94       |
| 42) 1,2-Dichloroethane        | 6.098  | 62   | 23505    | 18.425  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 6.348  | 43   | 24722    | 13.865  | ug/l   | 99       |
| 44) Trichloroethene           | 7.135  | 130  | 19112    | 17.932  | ug/l   | 100      |
| 45) 1,2-Dichloropropane       | 7.440  | 63   | 11201    | 12.572  | ug/l   | 92       |
| 46) Dibromomethane            | 7.586  | 93   | 10287    | 14.870  | ug/l   | 98       |
| 47) Bromodichloromethane      | 7.830  | 83   | 20864    | 16.060  | ug/l   | 93       |
| 48) Methyl methacrylate       | 7.702  | 41   | 12042    | 11.351  | ug/l   | 98       |
| 49) 1,4-Dioxane               | 7.665  | 88   | 7475     | 289.502 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone      | 8.580  | 43   | 74338    | 56.055  | ug/l   | 100      |
| 52) Toluene                   | 8.726  | 92   | 35436    | 15.220  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 8.982  | 75   | 22013    | 15.161  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 8.372  | 75   | 21530    | 14.472  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 9.159  | 97   | 14333    | 14.946  | ug/l   | 95       |
| 56) Ethyl methacrylate        | 9.122  | 69   | 20555    | 13.828  | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 9.311  | 76   | 22415    | 14.288  | ug/l   | 97       |
| 58) 2-Chloroethyl Vinyl ether | 8.250  | 63   | 45200    | 62.097  | ug/l   | 99       |
| 59) 2-Hexanone                | 9.433  | 43   | 59697    | 57.072  | ug/l   | 98       |
| 60) Dibromochloromethane      | 9.525  | 129  | 18504    | 17.626  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 9.616  | 107  | 15903    | 15.169  | ug/l   | 95       |
| 64) Tetrachloroethene         | 9.281  | 164  | 20476    | 21.195  | ug/l   | 96       |
| 65) Chlorobenzene             | 10.085 | 112  | 41447    | 18.028  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 10.171 | 131  | 19108    | 21.858  | ug/l   | 96       |
| 67) Ethyl Benzene             | 10.195 | 91   | 70651    | 17.918  | ug/l   | 99       |
| 68) m/p-Xylenes               | 10.305 | 106  | 56376    | 36.879  | ug/l   | 100      |
| 69) o-Xylene                  | 10.646 | 106  | 27627    | 18.042  | ug/l   | 97       |
| 70) Styrene                   | 10.659 | 104  | 45967    | 18.604  | ug/l   | 98       |
| 71) Bromoform                 | 10.805 | 173  | 15477    | 22.886  | ug/l # | 98       |
| 73) Isopropylbenzene          | 10.963 | 105  | 76845    | 18.330  | ug/l   | 100      |
| 74) N-amyl acetate            | 10.848 | 43   | 19395    | 11.956  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 18389    | 14.456  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 11.244 | 75   | 19553m   | 15.678  | ug/l   |          |
| 77) Bromobenzene              | 11.201 | 156  | 20527    | 18.756  | ug/l   | 99       |
| 78) n-propylbenzene           | 11.305 | 91   | 79234    | 16.758  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 11.366 | 91   | 50152    | 16.776  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 11.457 | 105  | 67482    | 18.663  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 11.024 | 75   | 6403     | 14.907  | ug/l   | 97       |
| 82) 4-Chlorotoluene           | 11.457 | 91   | 58585    | 16.946  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 11.719 | 119  | 65663    | 18.390  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 11.756 | 105  | 65135    | 18.153  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 11.896 | 105  | 76325    | 17.278  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 12.012 | 119  | 70736    | 18.896  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 37181    | 18.491  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 12.042 | 146  | 37903    | 18.463  | ug/l   | 98       |
| 89) n-Butylbenzene            | 12.335 | 91   | 51464    | 16.449  | ug/l   | 98       |
| 90) Hexachloroethane          | 12.542 | 117  | 11208    | 19.069  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 12.341 | 146  | 36880    | 18.550  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 6083     | 18.374  | ug/l   | 95       |
| 93) 1,2,4-Trichlorobenzene    | 13.591 | 180  | 25125    | 19.715  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 13662    | 23.773  | ug/l   | 99       |
| 95) Naphthalene               | 13.780 | 128  | 78669    | 19.550  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 25778    | 21.238  | ug/l   | 96       |

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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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