

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040220\  
 Data File : VN060838.D  
 Acq On : 2 Apr 2020 21:36  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 4/3/2020 12:06:32 PM

Quant Time: Apr 03 09:37:45 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N031820W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 18 08:49:09 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.64  | 168  | 183848   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 309411   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 286028   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 141766   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.00   | 65  | 130798   | 51.83 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 103.66% |      |
| 35) Dibromofluoromethane    | 7.57   | 113 | 99847    | 53.37 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 106.74% |      |
| 50) Toluene-d8              | 10.08  | 98  | 392885   | 51.41 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 102.82% |      |
| 62) 4-Bromofluorobenzene    | 12.40  | 95  | 148421   | 52.99 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 105.98% |      |

| Target Compounds              |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.83 | 85  | 82326   | 46.279  | ug/l | 100    |
| 3) Chloromethane              | 2.04 | 50  | 147426  | 44.374  | ug/l | 99     |
| 4) Vinyl Chloride             | 2.17 | 62  | 116495  | 44.829  | ug/l | 98     |
| 5) Bromomethane               | 2.54 | 94  | 55595   | 49.559  | ug/l | 98     |
| 6) Chloroethane               | 2.68 | 64  | 73171   | 48.881  | ug/l | 100    |
| 7) Trichlorofluoromethane     | 3.00 | 101 | 154493  | 48.262  | ug/l | 97     |
| 8) Diethyl Ether              | 3.38 | 74  | 66346   | 51.593  | ug/l | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.74 | 101 | 92219   | 49.717  | ug/l | 99     |
| 10) Methyl Iodide             | 3.93 | 142 | 76232   | 46.187  | ug/l | 100    |
| 11) Tert butyl alcohol        | 4.72 | 59  | 100584  | 270.989 | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 3.72 | 96  | 94800   | 47.626  | ug/l | 98     |
| 13) Acrolein                  | 3.57 | 56  | 104976  | 255.186 | ug/l | 100    |
| 14) Allyl chloride            | 4.29 | 41  | 171957  | 49.118  | ug/l | 97     |
| 15) Acrylonitrile             | 4.94 | 53  | 303077  | 277.678 | ug/l | 99     |
| 16) Acetone                   | 3.78 | 43  | 240149  | 268.627 | ug/l | 99     |
| 17) Carbon Disulfide          | 4.03 | 76  | 263707  | 43.561  | ug/l | 100    |
| 18) Methyl Acetate            | 4.28 | 43  | 143048  | 56.848  | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 5.00 | 73  | 341607  | 49.916  | ug/l | 98     |
| 20) Methylene Chloride        | 4.52 | 84  | 109693  | 49.879  | ug/l | 99     |
| 21) trans-1,2-Dichloroethene  | 5.01 | 96  | 101152  | 47.681  | ug/l | 95     |
| 22) Diisopropyl ether         | 5.91 | 45  | 390593  | 52.810  | ug/l | 96     |
| 23) Vinyl Acetate             | 5.86 | 43  | 1628710 | 269.890 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 5.82 | 63  | 204538  | 50.728  | ug/l | 99     |
| 25) 2-Butanone                | 6.80 | 43  | 402543  | 278.264 | ug/l | 98     |
| 26) 2,2-Dichloropropane       | 6.79 | 77  | 147743  | 46.572  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 6.80 | 96  | 118688  | 49.233  | ug/l | 99     |
| 28) Bromochloromethane        | 7.17 | 49  | 100442  | 52.067  | ug/l | 98     |
| 29) Tetrahydrofuran           | 7.18 | 42  | 276150  | 269.798 | ug/l | 98     |
| 30) Chloroform                | 7.35 | 83  | 194706  | 50.372  | ug/l | 98     |
| 31) Cyclohexane               | 7.63 | 56  | 190269  | 46.808  | ug/l | 98     |
| 32) 1,1,1-Trichloroethane     | 7.55 | 97  | 167226  | 50.185  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 7.77 | 75  | 148913  | 49.703  | ug/l | 100    |
| 37) Ethyl Acetate             | 6.89 | 43  | 169995  | 52.511  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 7.75 | 117 | 134130  | 49.951  | ug/l | 99     |

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 4/3/2020 12:06:32 PM

Quant Time: Apr 03 09:37:45 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N031820W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 18 08:49:09 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.07  | 83   | 177313   | 49.801   | ug/l   | 98       |
| 40) Benzene                    | 8.02  | 78   | 449358   | 49.684   | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.14  | 41   | 70922m   | 51.334   | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.10  | 62   | 157810   | 51.056   | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.14  | 43   | 285038   | 53.388   | ug/l   | 99       |
| 44) Trichloroethene            | 8.82  | 130  | 112975   | 49.551   | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 9.10  | 63   | 124393   | 52.123   | ug/l   | 98       |
| 46) Dibromomethane             | 9.19  | 93   | 73974    | 51.271   | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.39  | 83   | 155926   | 52.008   | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.18  | 41   | 126022   | 53.016   | ug/l   | 98       |
| 49) 1,4-Dioxane                | 9.18  | 88   | 32461    | 1148.899 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone       | 9.97  | 43   | 851973   | 280.430  | ug/l   | 99       |
| 52) Toluene                    | 10.14 | 92   | 273365   | 50.047   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.37 | 75   | 176690   | 51.305   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 9.82  | 75   | 189951   | 50.277   | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.55 | 97   | 108083   | 51.434   | ug/l   | 99       |
| 56) Ethyl methacrylate         | 10.42 | 69   | 177841   | 54.277   | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.70 | 76   | 190675   | 52.289   | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 9.68  | 63   | 408368   | 250.767  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.74 | 43   | 618677   | 282.695  | ug/l   | 100      |
| 60) Dibromochloromethane       | 10.89 | 129  | 113502   | 52.290   | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 10.99 | 107  | 109750   | 51.939   | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.62 | 164  | 103497   | 45.982   | ug/l   | 98       |
| 65) Chlorobenzene              | 11.43 | 112  | 279526   | 49.297   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.50 | 131  | 104567   | 50.934   | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.50 | 91   | 529907   | 50.254   | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.62 | 106  | 388454   | 99.135   | ug/l   | 99       |
| 69) o-Xylene                   | 11.94 | 106  | 187084   | 50.014   | ug/l   | 98       |
| 70) Styrene                    | 11.96 | 104  | 312480   | 51.077   | ug/l   | 99       |
| 71) Bromoform                  | 12.12 | 173  | 83883    | 49.189   | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.24 | 105  | 506650   | 47.622   | ug/l   | 99       |
| 74) N-amyl acetate             | 12.06 | 43   | 248404   | 50.528   | ug/l   | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 12.50 | 83   | 161516   | 50.202   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.55 | 75   | 147628m  | 48.260   | ug/l   |          |
| 77) Bromobenzene               | 12.52 | 156  | 120835   | 47.134   | ug/l   | 100      |
| 78) n-propylbenzene            | 12.59 | 91   | 601892   | 47.886   | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.67 | 91   | 355685   | 47.361   | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 427934   | 47.398   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.29 | 75   | 56723    | 47.624   | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 12.77 | 91   | 364431   | 47.644   | ug/l   | 99       |
| 83) tert-Butylbenzene          | 12.99 | 119  | 360953   | 48.228   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 431524   | 48.312   | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.17 | 105  | 496573   | 49.340   | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.28 | 119  | 444447   | 49.110   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.28 | 146  | 217532   | 48.111   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.36 | 146  | 219838   | 48.394   | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.61 | 91   | 411521   | 50.364   | ug/l   | 100      |
| 90) Hexachloroethane           | 13.87 | 117  | 69837    | 53.088   | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 13.65 | 146  | 215026   | 49.735   | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.26 | 75   | 33338    | 49.469   | ug/l   | 98       |

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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.91 | 180  | 134715   | 50.740 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.01 | 225  | 66368    | 50.992 | ug/l  | 99       |
| 95) Naphthalene            | 15.13 | 128  | 391950   | 49.082 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.31 | 180  | 128287   | 49.056 | ug/l  | 99       |

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

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