

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080720\  
 Data File : VN062777.D  
 Acq On : 7 Aug 2020 9:57  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 8/10/2020 12:24:29 PM

Quant Time: Aug 08 02:25:46 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N080520W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 05 13:26:42 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.62  | 168  | 181696   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 280459   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 264676   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 130813   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 7.99   | 65  | 137416   | 45.73 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 91.46%  |      |
| 35) Dibromofluoromethane  | 7.54   | 113 | 97560    | 50.85 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.70% |      |
| 50) Toluene-d8            | 10.06  | 98  | 374719   | 50.03 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.06% |      |
| 62) 4-Bromofluorobenzene  | 12.37  | 95  | 139033   | 49.12 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.24%  |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.83 | 85  | 133592  | 51.346  | ug/l | 99     |
| 3) Chloromethane              | 2.03 | 50  | 135500  | 55.188  | ug/l | 98     |
| 4) Vinyl Chloride             | 2.16 | 62  | 131718  | 57.198  | ug/l | 100    |
| 5) Bromomethane               | 2.52 | 94  | 73579   | 48.267  | ug/l | 97     |
| 6) Chloroethane               | 2.66 | 64  | 76916   | 50.770  | ug/l | 100    |
| 7) Trichlorofluoromethane     | 2.98 | 101 | 190636  | 46.425  | ug/l | 100    |
| 8) Diethyl Ether              | 3.37 | 74  | 54003   | 45.939  | ug/l | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.72 | 101 | 84189   | 50.850  | ug/l | 98     |
| 10) Methyl Iodide             | 3.90 | 142 | 102408  | 51.454  | ug/l | 98     |
| 11) Tert butyl alcohol        | 4.73 | 59  | 89233   | 181.198 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 3.69 | 96  | 75809   | 48.968  | ug/l | 99     |
| 13) Acrolein                  | 3.56 | 56  | 68152   | 228.569 | ug/l | 96     |
| 14) Allyl chloride            | 4.27 | 41  | 143354  | 45.064  | ug/l | 97     |
| 15) Acrylonitrile             | 4.92 | 53  | 256894  | 224.910 | ug/l | 100    |
| 16) Acetone                   | 3.77 | 43  | 262414  | 241.699 | ug/l | 98     |
| 17) Carbon Disulfide          | 4.00 | 76  | 213343  | 48.535  | ug/l | 99     |
| 18) Methyl Acetate            | 4.28 | 43  | 120010  | 46.659  | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 4.99 | 73  | 325363  | 46.219  | ug/l | 99     |
| 20) Methylene Chloride        | 4.50 | 84  | 96966   | 48.784  | ug/l | 96     |
| 21) trans-1,2-Dichloroethene  | 4.98 | 96  | 83862   | 46.122  | ug/l | 99     |
| 22) Diisopropyl ether         | 5.90 | 45  | 337918  | 49.900  | ug/l | 99     |
| 23) Vinyl Acetate             | 5.84 | 43  | 1170832 | 227.308 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 5.80 | 63  | 180984  | 45.605  | ug/l | 99     |
| 25) 2-Butanone                | 6.78 | 43  | 353316  | 229.770 | ug/l | 98     |
| 26) 2,2-Dichloropropane       | 6.77 | 77  | 164917  | 45.083  | ug/l | 100    |
| 27) cis-1,2-Dichloroethene    | 6.78 | 96  | 101464  | 46.518  | ug/l | 96     |
| 28) Bromochloromethane        | 7.15 | 49  | 92336   | 48.210  | ug/l | 99     |
| 29) Tetrahydrofuran           | 7.17 | 42  | 220985  | 221.209 | ug/l | 100    |
| 30) Chloroform                | 7.33 | 83  | 190844  | 45.251  | ug/l | 95     |
| 31) Cyclohexane               | 7.61 | 56  | 172080  | 47.237  | ug/l | 99     |
| 32) 1,1,1-Trichloroethane     | 7.53 | 97  | 167645  | 44.459  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 7.75 | 75  | 130735  | 47.873  | ug/l | 99     |
| 37) Ethyl Acetate             | 6.88 | 43  | 126370  | 44.299  | ug/l | 98     |
| 38) Carbon Tetrachloride      | 7.73 | 117 | 145751  | 45.127  | ug/l | 97     |

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 8/10/2020 12:24:29 PM

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N080520W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 05 13:26:42 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.05  | 83   | 166177   | 50.565  | ug/l   | 100      |
| 40) Benzene                    | 8.00  | 78   | 386534   | 47.434  | ug/l   | 97       |
| 41) Methacrylonitrile          | 7.12  | 41   | 65769    | 51.093  | ug/l # | 76       |
| 42) 1,2-Dichloroethane         | 8.08  | 62   | 158635   | 45.738  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.12  | 43   | 215123   | 45.212  | ug/l # | 90       |
| 44) Trichloroethene            | 8.80  | 130  | 94923    | 47.812  | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 9.08  | 63   | 110101   | 49.921  | ug/l   | 97       |
| 46) Dibromomethane             | 9.17  | 93   | 69406    | 48.029  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.37  | 83   | 158367   | 48.794  | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.17  | 41   | 108565   | 46.388  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 9.17  | 88   | 36667    | 845.535 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 9.95  | 43   | 711753   | 231.195 | ug/l   | 100      |
| 52) Toluene                    | 10.12 | 92   | 246499   | 48.992  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.35 | 75   | 169883   | 47.586  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 9.81  | 75   | 176756   | 49.313  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.53 | 97   | 101012   | 47.007  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 10.40 | 69   | 156839   | 48.490  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.68 | 76   | 175057   | 47.945  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 9.66  | 63   | 216426   | 236.722 | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.72 | 43   | 527881   | 229.869 | ug/l   | 100      |
| 60) Dibromochloromethane       | 10.87 | 129  | 117605   | 47.959  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 10.98 | 107  | 99829    | 47.080  | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.60 | 164  | 81739    | 47.864  | ug/l   | 98       |
| 65) Chlorobenzene              | 11.41 | 112  | 265450   | 47.978  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.48 | 131  | 107487   | 48.378  | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.48 | 91   | 489468   | 49.437  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.59 | 106  | 366063   | 101.854 | ug/l   | 97       |
| 69) o-Xylene                   | 11.92 | 106  | 172523   | 51.223  | ug/l   | 98       |
| 70) Styrene                    | 11.94 | 104  | 308512   | 52.112  | ug/l   | 98       |
| 71) Bromoform                  | 12.10 | 173  | 83826    | 46.112  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.22 | 105  | 485842   | 49.323  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.04 | 43   | 193819   | 48.555  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.48 | 83   | 155375   | 44.809  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.53 | 75   | 150008m  | 42.521  | ug/l   |          |
| 77) Bromobenzene               | 12.50 | 156  | 115983   | 47.389  | ug/l   | 95       |
| 78) n-propylbenzene            | 12.56 | 91   | 585023   | 50.596  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.65 | 91   | 342709   | 47.265  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 12.71 | 105  | 428682   | 50.165  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 12.27 | 75   | 54377    | 47.053  | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 12.75 | 91   | 365248   | 48.881  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 12.97 | 119  | 351120   | 48.558  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.01 | 105  | 426628   | 52.185  | ug/l   | 98       |
| 85) sec-Butylbenzene           | 13.15 | 105  | 485189   | 51.096  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.26 | 119  | 445365   | 52.839  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.26 | 146  | 216722   | 49.567  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.34 | 146  | 212748   | 48.513  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.59 | 91   | 364655   | 51.154  | ug/l   | 99       |
| 90) Hexachloroethane           | 13.85 | 117  | 83083    | 45.730  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.63 | 146  | 208724   | 50.919  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.24 | 75   | 31517    | 42.337  | ug/l   | 97       |

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|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.88 | 180  | 101048   | 46.173 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 14.98 | 225  | 66169    | 51.327 | ug/l  | 98       |
| 95) Naphthalene            | 15.10 | 128  | 245642   | 41.527 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.28 | 180  | 100945   | 46.713 | ug/l  | 99       |

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

