

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102820\  
 Data File : VN064342.D  
 Acq On : 28 Oct 2020 10:24  
 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  
 10/29/2020 9:49:40 AM

Quant Time: Oct 29 02:47:58 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N102720W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 27 12:23:17 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.62  | 168  | 256613   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 418405   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 386545   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 190617   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 7.98   | 65  | 197632   | 47.93 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.86% |      |
| 35) Dibromofluoromethane  | 7.54   | 113 | 136439   | 48.90 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.80% |      |
| 50) Toluene-d8            | 10.06  | 98  | 497647   | 48.22 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.44% |      |
| 62) 4-Bromofluorobenzene  | 12.37  | 95  | 196224   | 48.76 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.52% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.83 | 85  | 139129  | 47.166  | ug/l | 100    |
| 3) Chloromethane              | 2.04 | 50  | 148912  | 46.700  | ug/l | 100    |
| 4) Vinyl Chloride             | 2.16 | 62  | 147901  | 47.953  | ug/l | 96     |
| 5) Bromomethane               | 2.52 | 94  | 91900   | 46.113  | ug/l | 97     |
| 6) Chloroethane               | 2.67 | 64  | 85913   | 46.617  | ug/l | 100    |
| 7) Trichlorofluoromethane     | 2.98 | 101 | 249842  | 48.354  | ug/l | 99     |
| 8) Diethyl Ether              | 3.37 | 74  | 81113   | 49.625  | ug/l | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.71 | 101 | 127887  | 49.245  | ug/l | 97     |
| 10) Methyl Iodide             | 3.90 | 142 | 148182  | 42.759  | ug/l | 98     |
| 11) Tert butyl alcohol        | 4.72 | 59  | 142444  | 237.952 | ug/l | 98     |
| 12) 1,1-Dichloroethene        | 3.69 | 96  | 117634  | 47.982  | ug/l | 93     |
| 13) Acrolein                  | 3.57 | 56  | 28542   | 221.854 | ug/l | 87     |
| 14) Allyl chloride            | 4.27 | 41  | 244894  | 48.920  | ug/l | 96     |
| 15) Acrylonitrile             | 4.93 | 53  | 323953  | 251.647 | ug/l | 100    |
| 16) Acetone                   | 3.77 | 43  | 388905  | 277.432 | ug/l | 98     |
| 17) Carbon Disulfide          | 4.01 | 76  | 333884  | 46.030  | ug/l | 98     |
| 18) Methyl Acetate            | 4.27 | 43  | 146679  | 47.350  | ug/l | 96     |
| 19) Methyl tert-butyl Ether   | 4.98 | 73  | 473313  | 50.247  | ug/l | 100    |
| 20) Methylene Chloride        | 4.50 | 84  | 136187  | 46.567  | ug/l | 96     |
| 21) trans-1,2-Dichloroethene  | 4.99 | 96  | 131709  | 48.158  | ug/l | 94     |
| 22) Diisopropyl ether         | 5.90 | 45  | 493614  | 50.447  | ug/l | 98     |
| 23) Vinyl Acetate             | 5.84 | 43  | 2168803 | 261.993 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 5.79 | 63  | 261686  | 47.795  | ug/l | 98     |
| 25) 2-Butanone                | 6.78 | 43  | 532112  | 256.992 | ug/l | 98     |
| 26) 2,2-Dichloropropane       | 6.77 | 77  | 257137  | 47.986  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 6.77 | 96  | 152941  | 48.864  | ug/l | 97     |
| 28) Bromochloromethane        | 7.14 | 49  | 127876  | 49.020  | ug/l | 97     |
| 29) Tetrahydrofuran           | 7.16 | 42  | 323235  | 240.470 | ug/l | 99     |
| 30) Chloroform                | 7.32 | 83  | 282291  | 48.303  | ug/l | 98     |
| 31) Cyclohexane               | 7.61 | 56  | 222664  | 46.524  | ug/l | 99     |
| 32) 1,1,1-Trichloroethane     | 7.52 | 97  | 263135  | 46.888  | ug/l | 98     |
| 36) 1,1-Dichloropropene       | 7.75 | 75  | 208004  | 49.259  | ug/l | 99     |
| 37) Ethyl Acetate             | 6.87 | 43  | 193238  | 45.304  | ug/l | 96     |
| 38) Carbon Tetrachloride      | 7.73 | 117 | 240330  | 49.092  | ug/l | 96     |

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 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

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 VSTDCCC050

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MMDadoda  
 10/29/2020 9:49:40 AM

Quant Time: Oct 29 02:47:58 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N102720W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 27 12:23:17 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.05  | 83   | 206480   | 49.315   | ug/l   | 99       |
| 40) Benzene                    | 8.00  | 78   | 567698   | 48.299   | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.12  | 41   | 97152    | 45.885   | ug/l   | 97       |
| 42) 1,2-Dichloroethane         | 8.08  | 62   | 252709   | 49.772   | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.12  | 43   | 359365   | 49.287   | ug/l # | 92       |
| 44) Trichloroethene            | 8.80  | 130  | 157470   | 51.142   | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 9.08  | 63   | 154360   | 49.042   | ug/l   | 93       |
| 46) Dibromomethane             | 9.17  | 93   | 109765   | 49.849   | ug/l   | 97       |
| 47) Bromodichloromethane       | 9.37  | 83   | 233713   | 47.893   | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.16  | 41   | 187327   | 49.797   | ug/l   | 96       |
| 49) 1,4-Dioxane                | 9.16  | 88   | 59621    | 1075.286 | ug/l   | 91       |
| 51) 4-Methyl-2-Pentanone       | 9.95  | 43   | 1050596  | 247.883  | ug/l   | 100      |
| 52) Toluene                    | 10.12 | 92   | 368949   | 49.744   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.35 | 75   | 267873   | 51.916   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 9.80  | 75   | 270759   | 50.977   | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.53 | 97   | 147963   | 50.538   | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.40 | 69   | 229876   | 51.868   | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 10.68 | 76   | 251322   | 50.323   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.66  | 63   | 589024   | 243.555  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.72 | 43   | 801479   | 256.762  | ug/l   | 100      |
| 60) Dibromochloromethane       | 10.87 | 129  | 179699   | 51.912   | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 10.97 | 107  | 154833   | 51.903   | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.60 | 164  | 149982   | 47.209   | ug/l   | 99       |
| 65) Chlorobenzene              | 11.41 | 112  | 396973   | 50.656   | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.48 | 131  | 155820   | 49.195   | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.48 | 91   | 730142   | 50.115   | ug/l   | 97       |
| 68) m/p-Xylenes                | 11.59 | 106  | 539682   | 99.955   | ug/l   | 99       |
| 69) o-Xylene                   | 11.92 | 106  | 262364   | 50.438   | ug/l   | 95       |
| 70) Styrene                    | 11.94 | 104  | 441440   | 51.759   | ug/l   | 99       |
| 71) Bromoform                  | 12.10 | 173  | 124382   | 50.034   | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.22 | 105  | 693674   | 48.588   | ug/l   | 99       |
| 74) N-amyl acetate             | 12.04 | 43   | 318446   | 50.676   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.48 | 83   | 200993   | 48.434   | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane     | 12.53 | 75   | 208114m  | 45.591   | ug/l   |          |
| 77) Bromobenzene               | 12.50 | 156  | 168732   | 48.265   | ug/l   | 99       |
| 78) n-propylbenzene            | 12.56 | 91   | 809545   | 50.086   | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.65 | 91   | 493907   | 47.802   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.71 | 105  | 591651   | 48.977   | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 12.27 | 75   | 78159    | 49.321   | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 12.75 | 91   | 522996   | 49.687   | ug/l   | 99       |
| 83) tert-Butylbenzene          | 12.97 | 119  | 483920   | 48.818   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.01 | 105  | 604567   | 50.086   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.14 | 105  | 622709   | 48.544   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.26 | 119  | 571127   | 49.420   | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 13.25 | 146  | 305087   | 49.850   | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene        | 13.33 | 146  | 299611   | 48.065   | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.59 | 91   | 498702   | 48.984   | ug/l   | 99       |
| 90) Hexachloroethane           | 13.85 | 117  | 105732   | 48.716   | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene        | 13.63 | 146  | 292922   | 48.142   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.24 | 75   | 49951    | 48.510   | ug/l   | 97       |

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Sample : VSTDCCC050  
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ALS Vial : 2 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
VSTDCCC050

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10/29/2020 9:49:40 AM

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Quant Title : SW846 8260  
QLast Update : Tue Oct 27 12:23:17 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.88 | 180  | 162617   | 46.643 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 14.98 | 225  | 88216    | 47.245 | ug/l  | 98       |
| 95) Naphthalene            | 15.10 | 128  | 476844   | 44.526 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.28 | 180  | 158631   | 47.189 | ug/l  | 98       |

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

