

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100520\  
 Data File : VN063864.D  
 Acq On : 5 Oct 2020 12:30  
 Operator : JC/MD  
 Sample : VN1005WBS01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1005WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 10/6/2020 12:56:33 PM

Quant Time: Oct 06 01:58:50 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N093020W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 01 01:46:38 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 277154   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 457909   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 431137   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 202019   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 7.99   | 65  | 228550   | 49.92 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.84% |      |
| 35) Dibromofluoromethane  | 7.55   | 113 | 157140   | 49.46 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.92% |      |
| 50) Toluene-d8            | 10.06  | 98  | 578341   | 48.02 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.04% |      |
| 62) 4-Bromofluorobenzene  | 12.38  | 95  | 215144   | 47.52 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.04% |      |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.83 | 85  | 54181  | 18.527  | ug/l   | 99     |
| 3) Chloromethane              | 2.04 | 50  | 62981  | 18.354  | ug/l   | 98     |
| 4) Vinyl Chloride             | 2.17 | 62  | 61193  | 17.766  | ug/l   | 98     |
| 5) Bromomethane               | 2.54 | 94  | 38324  | 17.689  | ug/l   | 97     |
| 6) Chloroethane               | 2.68 | 64  | 39232  | 19.061  | ug/l   | 90     |
| 7) Trichlorofluoromethane     | 2.99 | 101 | 103274 | 18.905  | ug/l   | 97     |
| 8) Diethyl Ether              | 3.38 | 74  | 34572  | 18.713  | ug/l   | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.72 | 101 | 55998  | 19.179  | ug/l   | 99     |
| 10) Methyl Iodide             | 3.91 | 142 | 66235  | 19.537  | ug/l   | 98     |
| 11) Tert butyl alcohol        | 4.72 | 59  | 48659  | 96.257  | ug/l   | 100    |
| 12) 1,1-Dichloroethene        | 3.70 | 96  | 50482  | 18.088  | ug/l   | 94     |
| 13) Acrolein                  | 3.57 | 56  | 31732  | 102.277 | ug/l   | 97     |
| 14) Allyl chloride            | 4.28 | 41  | 97666  | 18.837  | ug/l   | 95     |
| 15) Acrylonitrile             | 4.93 | 53  | 136733 | 94.494  | ug/l   | 98     |
| 16) Acetone                   | 3.78 | 43  | 133677 | 94.840  | ug/l   | 99     |
| 17) Carbon Disulfide          | 4.01 | 76  | 133608 | 18.165  | ug/l   | 99     |
| 18) Methyl Acetate            | 4.28 | 43  | 72652  | 19.852  | ug/l   | 99     |
| 19) Methyl tert-butyl Ether   | 4.99 | 73  | 194265 | 19.159  | ug/l   | 100    |
| 20) Methylene Chloride        | 4.51 | 84  | 62642  | 19.463  | ug/l   | 97     |
| 21) trans-1,2-Dichloroethene  | 4.99 | 96  | 57487  | 18.390  | ug/l   | 98     |
| 22) Diisopropyl ether         | 5.90 | 45  | 210910 | 19.771  | ug/l   | 96     |
| 23) Vinyl Acetate             | 5.85 | 43  | 850805 | 96.281  | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 5.80 | 63  | 118486 | 19.426  | ug/l   | 100    |
| 25) 2-Butanone                | 6.79 | 43  | 199779 | 99.974  | ug/l   | 98     |
| 26) 2,2-Dichloropropane       | 6.78 | 77  | 103327 | 18.498  | ug/l   | 100    |
| 27) cis-1,2-Dichloroethene    | 6.78 | 96  | 66345  | 18.453  | ug/l   | 97     |
| 28) Bromochloromethane        | 7.15 | 49  | 58988  | 19.567  | ug/l   | 100    |
| 29) Tetrahydrofuran           | 7.17 | 42  | 131931 | 98.437  | ug/l   | 96     |
| 30) Chloroform                | 7.33 | 83  | 123030 | 19.345  | ug/l   | 98     |
| 31) Cyclohexane               | 7.62 | 56  | 95148  | 17.899  | ug/l # | 93     |
| 32) 1,1,1-Trichloroethane     | 7.53 | 97  | 113760 | 19.831  | ug/l   | 98     |
| 36) 1,1-Dichloropropene       | 7.75 | 75  | 86740  | 18.698  | ug/l   | 99     |
| 37) Ethyl Acetate             | 6.88 | 43  | 89374  | 19.391  | ug/l # | 95     |
| 38) Carbon Tetrachloride      | 7.73 | 117 | 98983  | 19.028  | ug/l   | 94     |

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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.05  | 83   | 78562    | 16.982  | ug/l   | 99       |
| 40) Benzene                    | 8.00  | 78   | 251525   | 18.983  | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.13  | 41   | 39179m   | 19.127  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.08  | 62   | 108395   | 19.164  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.13  | 43   | 146476   | 19.267  | ug/l   | 97       |
| 44) Trichloroethene            | 8.80  | 130  | 64700    | 18.636  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 9.08  | 63   | 68349    | 19.100  | ug/l   | 99       |
| 46) Dibromomethane             | 9.17  | 93   | 46484    | 18.830  | ug/l   | 100      |
| 47) Bromodichloromethane       | 9.37  | 83   | 96595    | 18.986  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.17  | 41   | 72639    | 19.339  | ug/l   | 94       |
| 49) 1,4-Dioxane                | 9.16  | 88   | 18678    | 349.898 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 9.95  | 43   | 437810   | 98.133  | ug/l   | 99       |
| 52) Toluene                    | 10.13 | 92   | 157672   | 19.238  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.35 | 75   | 103254   | 18.933  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene    | 9.81  | 75   | 107261   | 18.806  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane      | 10.53 | 97   | 63109    | 19.201  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.40 | 69   | 88122    | 18.915  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.68 | 76   | 107244   | 19.286  | ug/l   | 96       |
| 58) 2-Chloroethyl Vinyl ether  | 9.66  | 63   | 225989   | 90.682  | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.72 | 43   | 315163   | 95.095  | ug/l   | 98       |
| 60) Dibromochloromethane       | 10.87 | 129  | 70205    | 18.341  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 10.98 | 107  | 63874    | 18.998  | ug/l   | 97       |
| 64) Tetrachloroethene          | 10.60 | 164  | 62906    | 18.859  | ug/l   | 98       |
| 65) Chlorobenzene              | 11.41 | 112  | 164354   | 18.584  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.48 | 131  | 65775    | 19.400  | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.49 | 91   | 300463   | 18.671  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.59 | 106  | 223247   | 37.222  | ug/l   | 100      |
| 69) o-Xylene                   | 11.92 | 106  | 104852   | 18.704  | ug/l   | 100      |
| 70) Styrene                    | 11.94 | 104  | 178376   | 18.745  | ug/l   | 99       |
| 71) Bromoform                  | 12.10 | 173  | 46892    | 18.083  | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.22 | 105  | 279023   | 18.936  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.05 | 43   | 122004   | 19.241  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.48 | 83   | 86531    | 19.204  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 12.53 | 75   | 84678m   | 19.015  | ug/l   |          |
| 77) Bromobenzene               | 12.50 | 156  | 72490    | 20.049  | ug/l   | 100      |
| 78) n-propylbenzene            | 12.57 | 91   | 318211   | 18.556  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.65 | 91   | 198601   | 18.831  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.71 | 105  | 237372   | 19.202  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.28 | 75   | 29482    | 19.067  | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 12.75 | 91   | 207791   | 18.979  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 12.97 | 119  | 183980   | 18.195  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 13.02 | 105  | 231201   | 18.732  | ug/l   | 97       |
| 85) sec-Butylbenzene           | 13.15 | 105  | 247450   | 18.631  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.26 | 119  | 216837   | 18.455  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.26 | 146  | 121978   | 18.648  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 13.34 | 146  | 123127   | 18.078  | ug/l   | 100      |
| 89) n-Butylbenzene             | 13.59 | 91   | 181672   | 16.753  | ug/l   | 99       |
| 90) Hexachloroethane           | 13.85 | 117  | 42116    | 18.498  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.63 | 146  | 118361   | 18.269  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.24 | 75   | 19501    | 18.455  | ug/l   | 96       |

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|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.88 | 180  | 54290    | 16.612 | ug/l  | 96       |
| 94) Hexachlorobutadiene    | 14.98 | 225  | 33427    | 19.070 | ug/l  | 99       |
| 95) Naphthalene            | 15.10 | 128  | 163715   | 16.365 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.28 | 180  | 54039    | 16.887 | ug/l  | 99       |

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

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