

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070820\  
 Data File : VN062423.D  
 Acq On : 8 Jul 2020 22:46  
 Operator : JC/MD  
 Sample : VN0708WBS02  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0708WBS02

Manual Integrations  
 APPROVED

MMDadoda  
 7/9/2020 10:58:42 AM

Quant Time: Jul 09 03:11:53 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N070820W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jul 09 02:12:34 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 189834   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 333482   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 303011   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 131419   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 7.99   | 65  | 150305   | 51.48 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.96% |      |
| 35) Dibromofluoromethane  | 7.55   | 113 | 104670   | 50.78 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.56% |      |
| 50) Toluene-d8            | 10.06  | 98  | 413721   | 50.84 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.68% |      |
| 62) 4-Bromofluorobenzene  | 12.38  | 95  | 147639   | 49.65 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.30%  |      |

## Target Compounds

|                               |      |     |        |         |      | Qvalue |
|-------------------------------|------|-----|--------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.83 | 85  | 38375  | 19.846  | ug/l | 97     |
| 3) Chloromethane              | 2.04 | 50  | 60221  | 19.410  | ug/l | 96     |
| 4) Vinyl Chloride             | 2.16 | 62  | 50926  | 20.034  | ug/l | 99     |
| 5) Bromomethane               | 2.53 | 94  | 27686  | 20.280  | ug/l | 97     |
| 6) Chloroethane               | 2.67 | 64  | 30330  | 20.486  | ug/l | 99     |
| 7) Trichlorofluoromethane     | 2.99 | 101 | 66123  | 20.482  | ug/l | 99     |
| 8) Diethyl Ether              | 3.37 | 74  | 28231  | 19.556  | ug/l | 96     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.72 | 101 | 38784  | 20.266  | ug/l | 99     |
| 10) Methyl Iodide             | 3.91 | 142 | 48469  | 19.181  | ug/l | 98     |
| 11) Tert butyl alcohol        | 4.73 | 59  | 46762  | 96.544  | ug/l | 97     |
| 12) 1,1-Dichloroethene        | 3.70 | 96  | 38382  | 19.699  | ug/l | 96     |
| 13) Acrolein                  | 3.57 | 56  | 27794  | 79.546  | ug/l | 99     |
| 14) Allyl chloride            | 4.28 | 41  | 88556  | 19.325  | ug/l | 99     |
| 15) Acrylonitrile             | 4.93 | 53  | 128374 | 101.057 | ug/l | 99     |
| 16) Acetone                   | 3.78 | 43  | 109019 | 87.943  | ug/l | 97     |
| 17) Carbon Disulfide          | 4.01 | 76  | 116873 | 19.142  | ug/l | 100    |
| 18) Methyl Acetate            | 4.28 | 43  | 59424  | 19.208  | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 4.99 | 73  | 145909 | 19.751  | ug/l | 99     |
| 20) Methylene Chloride        | 4.50 | 84  | 50349  | 18.996  | ug/l | 97     |
| 21) trans-1,2-Dichloroethene  | 4.99 | 96  | 42050  | 19.921  | ug/l | 98     |
| 22) Diisopropyl ether         | 5.90 | 45  | 185893 | 20.532  | ug/l | 98     |
| 23) Vinyl Acetate             | 5.84 | 43  | 752351 | 100.315 | ug/l | 98     |
| 24) 1,1-Dichloroethane        | 5.80 | 63  | 94353  | 20.168  | ug/l | 99     |
| 25) 2-Butanone                | 6.79 | 43  | 176110 | 97.275  | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 6.78 | 77  | 64652  | 18.023  | ug/l | 100    |
| 27) cis-1,2-Dichloroethene    | 6.78 | 96  | 49867  | 20.396  | ug/l | 98     |
| 28) Bromochloromethane        | 7.15 | 49  | 48199  | 18.963  | ug/l | 99     |
| 29) Tetrahydrofuran           | 7.17 | 42  | 118611 | 97.311  | ug/l | 99     |
| 30) Chloroform                | 7.33 | 83  | 86590  | 20.499  | ug/l | 99     |
| 31) Cyclohexane               | 7.62 | 56  | 87340  | 19.693  | ug/l | 93     |
| 32) 1,1,1-Trichloroethane     | 7.53 | 97  | 70558  | 20.081  | ug/l | 98     |
| 36) 1,1-Dichloropropene       | 7.75 | 75  | 64819  | 19.293  | ug/l | 98     |
| 37) Ethyl Acetate             | 6.88 | 43  | 76091  | 19.368  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 7.73 | 117 | 60513  | 20.034  | ug/l | 98     |

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 Quant Title : SW846 8260  
 QLast Update : Thu Jul 09 02:12:34 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.05  | 83   | 70148    | 19.557  | ug/l   | 99       |
| 40) Benzene                    | 8.00  | 78   | 199203   | 20.117  | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.13  | 41   | 30947m   | 18.854  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.09  | 62   | 72440    | 19.979  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.13  | 43   | 120047   | 19.343  | ug/l # | 93       |
| 44) Trichloroethene            | 8.80  | 130  | 44830    | 20.405  | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 9.08  | 63   | 57332    | 19.945  | ug/l   | 100      |
| 46) Dibromomethane             | 9.18  | 93   | 32209    | 19.856  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.37  | 83   | 68580    | 19.774  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.17  | 41   | 57305    | 18.824  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 9.17  | 88   | 16952    | 382.574 | ug/l   | 93       |
| 51) 4-Methyl-2-Pentanone       | 9.95  | 43   | 366940   | 98.991  | ug/l   | 100      |
| 52) Toluene                    | 10.12 | 92   | 115554   | 20.203  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.35 | 75   | 75352    | 19.393  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 9.81  | 75   | 82793    | 19.312  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.53 | 97   | 45287    | 20.132  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.40 | 69   | 74111    | 19.001  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.68 | 76   | 84711    | 20.383  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 9.66  | 63   | 122082   | 91.478  | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.72 | 43   | 261253   | 97.082  | ug/l   | 100      |
| 60) Dibromochloromethane       | 10.88 | 129  | 48502    | 19.885  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 10.98 | 107  | 45888    | 20.208  | ug/l   | 97       |
| 64) Tetrachloroethene          | 10.61 | 164  | 36008    | 20.026  | ug/l   | 98       |
| 65) Chlorobenzene              | 11.41 | 112  | 119178   | 20.237  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.48 | 131  | 43841    | 20.187  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.48 | 91   | 220494   | 19.946  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.60 | 106  | 157569   | 40.265  | ug/l   | 100      |
| 69) o-Xylene                   | 11.92 | 106  | 76868    | 20.174  | ug/l   | 97       |
| 70) Styrene                    | 11.94 | 104  | 128500   | 20.406  | ug/l   | 99       |
| 71) Bromoform                  | 12.10 | 173  | 32331    | 20.308  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.22 | 105  | 207387   | 20.393  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.05 | 43   | 98454    | 19.891  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.48 | 83   | 68540    | 20.045  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 12.53 | 75   | 61238m   | 18.991  | ug/l   |          |
| 77) Bromobenzene               | 12.50 | 156  | 47374    | 20.491  | ug/l   | 95       |
| 78) n-propylbenzene            | 12.57 | 91   | 239121   | 20.130  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.65 | 91   | 144841   | 20.090  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.71 | 105  | 170125   | 20.407  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 12.28 | 75   | 21636    | 17.959  | ug/l   | 95       |
| 82) 4-Chlorotoluene            | 12.75 | 91   | 148703   | 20.316  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 12.97 | 119  | 142676   | 20.167  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.02 | 105  | 168213   | 20.300  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.15 | 105  | 189563   | 20.220  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.26 | 119  | 165168   | 20.413  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.26 | 146  | 79807    | 20.010  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 13.34 | 146  | 80120    | 19.523  | ug/l   | 97       |
| 89) n-Butylbenzene             | 13.59 | 91   | 134844   | 18.874  | ug/l   | 99       |
| 90) Hexachloroethane           | 13.85 | 117  | 31856    | 20.014  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 13.63 | 146  | 79583    | 20.637  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.25 | 75   | 12580    | 20.160  | ug/l   | 98       |

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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.89 | 180  | 33922    | 19.671 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 14.98 | 225  | 20352    | 19.877 | ug/l  | 98       |
| 95) Naphthalene            | 15.11 | 128  | 93252    | 19.985 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.28 | 180  | 35029    | 19.003 | ug/l  | 98       |

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

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