

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112019\  
 Data File : VN059325.D  
 Acq On : 20 Nov 2019 13:57  
 Operator : JC/SP  
 Sample : VSTDIC001  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC001

Manual Integrations  
 APPROVED

MMDadoda  
 11/21/2019 11:08:08 AM

Quant Time: Nov 21 05:54:13 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N112019W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 20 15:04:54 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.65  | 168  | 379564   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 610961   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 515848   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 196576   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |      |       |  |
|---------------------------|--------|-----|----------|------|-------|--|
| 33) 1,2-Dichloroethane-d4 | 0.00   | 65  | 0d       | 0.00 | ug/l  |  |
| Spiked Amount             | 50.000 |     | Recovery | =    | 0.00% |  |
| 35) Dibromofluoromethane  | 0.00   | 113 | 0d       | 0.00 | ug/l  |  |
| Spiked Amount             | 50.000 |     | Recovery | =    | 0.00% |  |
| 50) Toluene-d8            | 0.00   | 98  | 0d       | 0.00 | ug/l  |  |
| Spiked Amount             | 50.000 |     | Recovery | =    | 0.00% |  |
| 62) 4-Bromofluorobenzene  | 0.00   | 95  | 0d       | 0.00 | ug/l  |  |
| Spiked Amount             | 50.000 |     | Recovery | =    | 0.00% |  |

## Target Compounds

|                               |      |     |       |       |        | Qvalue |
|-------------------------------|------|-----|-------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.84 | 85  | 4650  | 1.216 | ug/l   | 90     |
| 3) Chloromethane              | 2.04 | 50  | 6545  | 1.259 | ug/l   | 96     |
| 4) Vinyl Chloride             | 2.17 | 62  | 5911  | 1.173 | ug/l   | 89     |
| 6) Chloroethane               | 2.69 | 64  | 3888  | 1.304 | ug/l   | 100    |
| 7) Trichlorofluoromethane     | 3.00 | 101 | 7190  | 1.193 | ug/l   | 97     |
| 8) Diethyl Ether              | 3.39 | 74  | 2762  | 1.128 | ug/l   | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.74 | 101 | 4262  | 1.173 | ug/l   | 99     |
| 12) 1,1-Dichloroethene        | 3.72 | 96  | 4391  | 1.240 | ug/l   | 96     |
| 14) Allyl chloride            | 4.29 | 41  | 7851  | 1.079 | ug/l   | 94     |
| 15) Acrylonitrile             | 4.97 | 53  | 11817 | 5.340 | ug/l   | 98     |
| 16) Acetone                   | 3.80 | 43  | 10859 | 4.476 | ug/l   | 99     |
| 17) Carbon Disulfide          | 4.03 | 76  | 19189 | 1.746 | ug/l   | 99     |
| 18) Methyl Acetate            | 4.30 | 43  | 7039  | 1.222 | ug/l # | 76     |
| 19) Methyl tert-butyl Ether   | 5.02 | 73  | 12727 | 1.044 | ug/l   | 97     |
| 20) Methylene Chloride        | 4.53 | 84  | 5202  | 1.231 | ug/l   | 96     |
| 21) trans-1,2-Dichloroethene  | 5.01 | 96  | 4501  | 1.184 | ug/l   | 94     |
| 22) Diisopropyl ether         | 5.92 | 45  | 13828 | 1.007 | ug/l # | 62     |
| 23) Vinyl Acetate             | 5.87 | 43  | 54762 | 5.143 | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 5.82 | 63  | 7852  | 1.023 | ug/l # | 92     |
| 25) 2-Butanone                | 6.82 | 43  | 14976 | 4.683 | ug/l   | 98     |
| 26) 2,2-Dichloropropane       | 6.80 | 77  | 7501  | 1.118 | ug/l   | 82     |
| 27) cis-1,2-Dichloroethene    | 6.81 | 96  | 5196  | 1.178 | ug/l   | 95     |
| 28) Bromochloromethane        | 7.18 | 49  | 1935m | 0.838 | ug/l   |        |
| 29) Tetrahydrofuran           | 7.20 | 42  | 10690 | 5.261 | ug/l   | 98     |
| 30) Chloroform                | 7.36 | 83  | 10928 | 1.485 | ug/l   | 98     |
| 32) 1,1,1-Trichloroethane     | 7.55 | 97  | 6755  | 1.092 | ug/l # | 51     |
| 36) 1,1-Dichloropropene       | 7.77 | 75  | 6594  | 1.155 | ug/l   | 97     |
| 37) Ethyl Acetate             | 6.91 | 43  | 7112  | 1.119 | ug/l # | 87     |
| 38) Carbon Tetrachloride      | 7.75 | 117 | 6114  | 1.076 | ug/l   | 97     |
| 39) Methylcyclohexane         | 9.07 | 83  | 7303  | 1.102 | ug/l   | 91     |
| 40) Benzene                   | 8.02 | 78  | 18675 | 1.086 | ug/l   | 95     |
| 41) Methacrylonitrile         | 7.16 | 41  | 2565m | 0.928 | ug/l   |        |
| 42) 1,2-Dichloroethane        | 8.10 | 62  | 6189  | 1.049 | ug/l   | 87     |
| 43) Isopropyl Acetate         | 8.15 | 43  | 9457  | 0.934 | ug/l   | 95     |

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 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

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 11/21/2019 11:08:08 AM

Quant Time: Nov 21 05:54:13 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N112019W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 20 15:04:54 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 44) Trichloroethene            | 8.82  | 130  | 4961     | 1.174  | ug/l   | 93       |
| 45) 1,2-Dichloropropane        | 9.11  | 63   | 4951     | 1.060  | ug/l   | 97       |
| 46) Dibromomethane             | 9.19  | 93   | 2901     | 0.997  | ug/l   | 84       |
| 47) Bromodichloromethane       | 9.39  | 83   | 5791     | 0.996  | ug/l   | 94       |
| 48) Methyl methacrylate        | 9.19  | 41   | 4644     | 1.025  | ug/l   | 87       |
| 49) 1,4-Dioxane                | 9.20  | 88   | 1359m    | 16.880 | ug/l   |          |
| 51) 4-Methyl-2-Pentanone       | 9.98  | 43   | 27400    | 4.781  | ug/l   | 99       |
| 52) Toluene                    | 10.15 | 92   | 10714    | 1.039  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene      | 10.38 | 75   | 6994     | 1.042  | ug/l # | 78       |
| 54) cis-1,3-Dichloropropene    | 9.83  | 75   | 7165     | 0.992  | ug/l   | 100      |
| 55) 1,1,2-Trichloroethane      | 10.55 | 97   | 4094     | 0.981  | ug/l # | 85       |
| 56) Ethyl methacrylate         | 10.43 | 69   | 4922     | 0.795  | ug/l # | 84       |
| 57) 1,3-Dichloropropane        | 10.70 | 76   | 7344     | 1.023  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.69  | 63   | 7128     | 3.070  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.75 | 43   | 19083    | 4.338  | ug/l   | 95       |
| 60) Dibromochloromethane       | 10.90 | 129  | 4084     | 0.926  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 11.00 | 107  | 4375     | 1.036  | ug/l   | 96       |
| 64) Tetrachloroethene          | 10.63 | 164  | 4724     | 1.347  | ug/l   | 92       |
| 65) Chlorobenzene              | 11.43 | 112  | 11677    | 1.161  | ug/l   | 94       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.51 | 131  | 3832     | 1.016  | ug/l # | 50       |
| 67) Ethyl Benzene              | 11.51 | 91   | 20384    | 1.143  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.62 | 106  | 14548    | 2.177  | ug/l   | 99       |
| 69) o-Xylene                   | 11.95 | 106  | 6757     | 1.046  | ug/l   | 99       |
| 70) Styrene                    | 11.97 | 104  | 10061    | 0.990  | ug/l   | 99       |
| 71) Bromoform                  | 12.13 | 173  | 2712     | 0.924  | ug/l # | 94       |
| 73) Isopropylbenzene           | 12.25 | 105  | 18218    | 1.274  | ug/l   | 97       |
| 74) N-amyl acetate             | 12.07 | 43   | 6633     | 1.095  | ug/l # | 94       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.50 | 83   | 6043     | 1.241  | ug/l # | 97       |
| 76) 1,2,3-Trichloropropane     | 12.56 | 75   | 4975m    | 1.112  | ug/l   |          |
| 77) Bromobenzene               | 12.53 | 156  | 4508     | 1.255  | ug/l   | 94       |
| 78) n-propylbenzene            | 12.59 | 91   | 19875    | 1.214  | ug/l   | 96       |
| 79) 2-Chlorotoluene            | 12.68 | 91   | 13121    | 1.292  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 15232    | 1.257  | ug/l   | 98       |
| 82) 4-Chlorotoluene            | 12.78 | 91   | 14987    | 1.471  | ug/l   | 94       |
| 83) tert-Butylbenzene          | 12.99 | 119  | 12156    | 1.162  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 14301    | 1.220  | ug/l   | 94       |
| 85) sec-Butylbenzene           | 13.17 | 105  | 16803    | 1.235  | ug/l   | 98       |
| 86) p-Isopropyltoluene         | 13.29 | 119  | 14305    | 1.191  | ug/l   | 95       |
| 87) 1,3-Dichlorobenzene        | 13.29 | 146  | 8474     | 1.377  | ug/l   | 95       |
| 88) 1,4-Dichlorobenzene        | 13.37 | 146  | 8480m    | 1.378  | ug/l   |          |
| 89) n-Butylbenzene             | 13.62 | 91   | 12699    | 1.208  | ug/l   | 98       |
| 90) Hexachloroethane           | 13.88 | 117  | 2985     | 1.237  | ug/l   | 86       |
| 91) 1,2-Dichlorobenzene        | 13.66 | 146  | 7921     | 1.309  | ug/l   | 94       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.28 | 75   | 1343     | 1.222  | ug/l   | 84       |
| 93) 1,2,4-Trichlorobenzene     | 14.92 | 180  | 6422     | 1.981  | ug/l   | 91       |
| 94) Hexachlorobutadiene        | 15.01 | 225  | 3061     | 1.467  | ug/l   | 87       |
| 95) Naphthalene                | 15.13 | 128  | 21762    | 2.444  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene     | 15.30 | 180  | 8139     | 2.400  | ug/l   | 94       |

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Sample : VSTDICC001  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC001

Manual Integrations  
APPROVED

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11/21/2019 11:08:08 AM

Quant Time: Nov 21 05:54:13 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N112019W.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 20 15:04:54 2019  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

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

