

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100620\  
 Data File : VN063902.D  
 Acq On : 6 Oct 2020 18:44  
 Operator : JC/MD  
 Sample : VN1006WBS02  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1006WBS02

Manual Integrations  
 APPROVED

MMDadoda  
 10/7/2020 12:11:48 PM

Quant Time: Oct 07 04:30:06 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  | 264803   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 426474   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 407644   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 186054   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 7.99   | 65  | 211885   | 48.43 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.86% |      |
| 35) Dibromofluoromethane  | 7.55   | 113 | 146035   | 49.35 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.70% |      |
| 50) Toluene-d8            | 10.06  | 98  | 521597   | 46.50 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 93.00% |      |
| 62) 4-Bromofluorobenzene  | 12.38  | 95  | 193017   | 45.77 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 91.54% |      |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.83 | 85  | 44971  | 16.095  | ug/l   | 98     |
| 3) Chloromethane              | 2.04 | 50  | 54517  | 16.629  | ug/l   | 96     |
| 4) Vinyl Chloride             | 2.17 | 62  | 53788  | 16.344  | ug/l   | 98     |
| 5) Bromomethane               | 2.53 | 94  | 36095  | 17.437  | ug/l   | 97     |
| 6) Chloroethane               | 2.68 | 64  | 36912  | 18.770  | ug/l   | 97     |
| 7) Trichlorofluoromethane     | 2.99 | 101 | 89265  | 17.103  | ug/l   | 95     |
| 8) Diethyl Ether              | 3.38 | 74  | 31060  | 17.596  | ug/l   | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.72 | 101 | 48098  | 17.241  | ug/l # | 87     |
| 10) Methyl Iodide             | 3.91 | 142 | 56917  | 17.572  | ug/l   | 97     |
| 11) Tert butyl alcohol        | 4.73 | 59  | 49393  | 102.266 | ug/l   | 100    |
| 12) 1,1-Dichloroethene        | 3.70 | 96  | 46817  | 17.557  | ug/l   | 98     |
| 13) Acrolein                  | 3.57 | 56  | 34258  | 115.569 | ug/l   | 99     |
| 14) Allyl chloride            | 4.28 | 41  | 90931  | 18.356  | ug/l   | 91     |
| 15) Acrylonitrile             | 4.93 | 53  | 128482 | 92.934  | ug/l   | 100    |
| 16) Acetone                   | 3.78 | 43  | 121737 | 90.398  | ug/l   | 99     |
| 17) Carbon Disulfide          | 4.01 | 76  | 121755 | 17.358  | ug/l   | 100    |
| 18) Methyl Acetate            | 4.28 | 43  | 66506  | 19.021  | ug/l   | 98     |
| 19) Methyl tert-butyl Ether   | 4.99 | 73  | 174232 | 17.985  | ug/l   | 98     |
| 20) Methylene Chloride        | 4.51 | 84  | 58405  | 18.996  | ug/l   | 93     |
| 21) trans-1,2-Dichloroethene  | 5.00 | 96  | 51277  | 17.168  | ug/l   | 97     |
| 22) Diisopropyl ether         | 5.90 | 45  | 195723 | 19.203  | ug/l   | 96     |
| 23) Vinyl Acetate             | 5.85 | 43  | 780786 | 92.479  | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 5.80 | 63  | 104989 | 18.016  | ug/l   | 97     |
| 25) 2-Butanone                | 6.78 | 43  | 183699 | 96.215  | ug/l   | 96     |
| 26) 2,2-Dichloropropane       | 6.78 | 77  | 92736  | 17.377  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 6.78 | 96  | 59633  | 17.360  | ug/l   | 97     |
| 28) Bromochloromethane        | 7.15 | 49  | 51166  | 17.764  | ug/l # | 18     |
| 29) Tetrahydrofuran           | 7.17 | 42  | 124431 | 97.171  | ug/l   | 96     |
| 30) Chloroform                | 7.33 | 83  | 114151 | 18.786  | ug/l   | 94     |
| 31) Cyclohexane               | 7.62 | 56  | 84068  | 16.553  | ug/l   | 96     |
| 32) 1,1,1-Trichloroethane     | 7.53 | 97  | 100425 | 18.323  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 7.75 | 75  | 75024  | 17.364  | ug/l   | 99     |
| 37) Ethyl Acetate             | 6.88 | 43  | 80155  | 18.673  | ug/l   | 97     |
| 38) Carbon Tetrachloride      | 7.74 | 117 | 87766  | 18.115  | ug/l   | 95     |

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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.05  | 83   | 69520    | 16.135  | ug/l   | 98       |
| 40) Benzene                    | 8.00  | 78   | 228168   | 18.489  | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.14  | 41   | 38941m   | 20.412  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.09  | 62   | 102199   | 19.401  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.13  | 43   | 135085   | 19.079  | ug/l   | 100      |
| 44) Trichloroethene            | 8.80  | 130  | 57756    | 17.862  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 9.09  | 63   | 61061    | 18.321  | ug/l   | 97       |
| 46) Dibromomethane             | 9.18  | 93   | 41925    | 18.235  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.37  | 83   | 89352    | 18.857  | ug/l   | 96       |
| 48) Methyl methacrylate        | 9.17  | 41   | 66954    | 19.140  | ug/l   | 96       |
| 49) 1,4-Dioxane                | 9.17  | 88   | 18463    | 371.364 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone       | 9.95  | 43   | 413557   | 99.530  | ug/l   | 99       |
| 52) Toluene                    | 10.13 | 92   | 138664   | 18.166  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.35 | 75   | 93196    | 18.348  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 9.81  | 75   | 96264    | 18.122  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.53 | 97   | 58420    | 19.084  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.40 | 69   | 79833    | 18.399  | ug/l   | 96       |
| 57) 1,3-Dichloropropane        | 10.68 | 76   | 96649    | 18.662  | ug/l   | 97       |
| 58) 2-Chloroethyl Vinyl ether  | 9.66  | 63   | 226682   | 97.665  | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.72 | 43   | 297897   | 96.511  | ug/l   | 96       |
| 60) Dibromochloromethane       | 10.87 | 129  | 66808    | 18.740  | ug/l   | 97       |
| 61) 1,2-Dibromoethane          | 10.98 | 107  | 58716    | 18.751  | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.60 | 164  | 54418    | 17.255  | ug/l   | 96       |
| 65) Chlorobenzene              | 11.41 | 112  | 149521   | 17.881  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.48 | 131  | 58478    | 18.241  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.49 | 91   | 261588   | 17.192  | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.59 | 106  | 193369   | 34.098  | ug/l   | 98       |
| 69) o-Xylene                   | 11.92 | 106  | 92867    | 17.521  | ug/l   | 99       |
| 70) Styrene                    | 11.94 | 104  | 157458   | 17.500  | ug/l   | 99       |
| 71) Bromoform                  | 12.10 | 173  | 43593    | 17.780  | ug/l # | 97       |
| 73) Isopropylbenzene           | 12.23 | 105  | 245010   | 18.054  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.05 | 43   | 110933   | 19.024  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.48 | 83   | 80551    | 19.411  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 12.53 | 75   | 76919m   | 18.755  | ug/l   |          |
| 77) Bromobenzene               | 12.50 | 156  | 63980    | 19.214  | ug/l   | 98       |
| 78) n-propylbenzene            | 12.57 | 91   | 275566   | 17.448  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.65 | 91   | 177816   | 18.307  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 12.71 | 105  | 205139   | 18.018  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.28 | 75   | 25894    | 18.184  | ug/l   | 93       |
| 82) 4-Chlorotoluene            | 12.75 | 91   | 183671   | 18.215  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 12.97 | 119  | 162928   | 17.495  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.02 | 105  | 201026   | 17.685  | ug/l   | 97       |
| 85) sec-Butylbenzene           | 13.15 | 105  | 209457   | 17.124  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.26 | 119  | 187233   | 17.303  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.26 | 146  | 109966   | 18.254  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.34 | 146  | 110574   | 17.628  | ug/l   | 100      |
| 89) n-Butylbenzene             | 13.59 | 91   | 159097   | 15.930  | ug/l   | 99       |
| 90) Hexachloroethane           | 13.85 | 117  | 36070    | 17.202  | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene        | 13.63 | 146  | 108799   | 18.234  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.24 | 75   | 17851    | 18.343  | ug/l   | 97       |

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|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.88 | 180  | 50071    | 16.633 | ug/l  | 95       |
| 94) Hexachlorobutadiene    | 14.98 | 225  | 29353    | 18.186 | ug/l  | 97       |
| 95) Naphthalene            | 15.11 | 128  | 144625   | 15.776 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.28 | 180  | 49602    | 16.836 | ug/l  | 96       |

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

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