

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092520\  
 Data File : VN063676.D  
 Acq On : 25 Sep 2020 14:19  
 Operator : JC/MD  
 Sample : VN0925WBS01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0925WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 9/29/2020 10:40:37 AM

Quant Time: Sep 28 02:14:29 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091620W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 16 13:05:20 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 275586   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 464741   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 435758   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 207930   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 7.99   | 65  | 229890   | 49.00 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 98.00%  |      |
| 35) Dibromofluoromethane    | 7.55   | 113 | 161948   | 50.34 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.68% |      |
| 50) Toluene-d8              | 10.06  | 98  | 597415   | 49.38 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 98.76%  |      |
| 62) 4-Bromofluorobenzene    | 12.38  | 95  | 222565   | 50.19 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.38% |      |

| Target Compounds              |      |     |        |        | Qvalue    |
|-------------------------------|------|-----|--------|--------|-----------|
| 2) Dichlorodifluoromethane    | 1.83 | 85  | 56874  | 18.216 | ug/l 98   |
| 3) Chloromethane              | 2.04 | 50  | 70779  | 17.137 | ug/l 96   |
| 4) Vinyl Chloride             | 2.17 | 62  | 68565  | 18.737 | ug/l 96   |
| 5) Bromomethane               | 2.54 | 94  | 46160  | 21.245 | ug/l 99   |
| 6) Chloroethane               | 2.68 | 64  | 41703  | 18.566 | ug/l 98   |
| 7) Trichlorofluoromethane     | 2.99 | 101 | 110076 | 20.162 | ug/l 99   |
| 8) Diethyl Ether              | 3.38 | 74  | 38988  | 18.319 | ug/l 98   |
| 9) 1,1,2-Trichlorotrifluoroet | 3.72 | 101 | 59376  | 19.338 | ug/l 97   |
| 10) Methyl Iodide             | 3.91 | 142 | 69792  | 17.459 | ug/l 97   |
| 11) Tert butyl alcohol        | 4.73 | 59  | 54370  | 83.659 | ug/l 98   |
| 12) 1,1-Dichloroethene        | 3.70 | 96  | 55808  | 17.945 | ug/l 96   |
| 13) Acrolein                  | 3.57 | 56  | 15682  | 65.113 | ug/l 100  |
| 14) Allyl chloride            | 4.28 | 41  | 107474 | 17.471 | ug/l 96   |
| 15) Acrylonitrile             | 4.93 | 53  | 156731 | 94.809 | ug/l 99   |
| 16) Acetone                   | 3.77 | 43  | 145667 | 96.617 | ug/l 99   |
| 17) Carbon Disulfide          | 4.02 | 76  | 147806 | 16.339 | ug/l 98   |
| 18) Methyl Acetate            | 4.28 | 43  | 80598  | 21.058 | ug/l # 75 |
| 19) Methyl tert-butyl Ether   | 4.99 | 73  | 214933 | 18.543 | ug/l 99   |
| 20) Methylene Chloride        | 4.51 | 84  | 71063  | 18.603 | ug/l 94   |
| 21) trans-1,2-Dichloroethene  | 4.99 | 96  | 62519  | 18.145 | ug/l 93   |
| 22) Diisopropyl ether         | 5.90 | 45  | 232891 | 18.563 | ug/l 94   |
| 23) Vinyl Acetate             | 5.85 | 43  | 952565 | 92.449 | ug/l 99   |
| 24) 1,1-Dichloroethane        | 5.80 | 63  | 128122 | 18.705 | ug/l 98   |
| 25) 2-Butanone                | 6.78 | 43  | 219936 | 94.850 | ug/l 99   |
| 26) 2,2-Dichloropropane       | 6.78 | 77  | 113496 | 18.820 | ug/l 99   |
| 27) cis-1,2-Dichloroethene    | 6.78 | 96  | 74281  | 19.047 | ug/l 98   |
| 28) Bromochloromethane        | 7.15 | 49  | 66548  | 21.042 | ug/l 97   |
| 29) Tetrahydrofuran           | 7.17 | 42  | 141162 | 89.136 | ug/l 99   |
| 30) Chloroform                | 7.33 | 83  | 133953 | 19.492 | ug/l 100  |
| 31) Cyclohexane               | 7.61 | 56  | 106415 | 16.424 | ug/l 94   |
| 32) 1,1,1-Trichloroethane     | 7.53 | 97  | 120183 | 19.663 | ug/l 98   |
| 36) 1,1-Dichloropropene       | 7.75 | 75  | 93781  | 18.941 | ug/l 99   |
| 37) Ethyl Acetate             | 6.89 | 43  | 92862  | 19.110 | ug/l 99   |
| 38) Carbon Tetrachloride      | 7.74 | 117 | 99089  | 19.605 | ug/l 97   |

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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.05  | 83   | 92785    | 17.267  | ug/l   | 97       |
| 40) Benzene                    | 8.00  | 78   | 276467   | 19.561  | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.13  | 41   | 39091m   | 17.886  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.09  | 62   | 116527   | 20.501  | ug/l   | 98       |
| 43) Isopropyl Acetate          | 8.13  | 43   | 162861   | 18.743  | ug/l   | 99       |
| 44) Trichloroethene            | 8.80  | 130  | 70093    | 20.447  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 9.08  | 63   | 76887    | 19.974  | ug/l   | 96       |
| 46) Dibromomethane             | 9.18  | 93   | 51972    | 20.542  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.37  | 83   | 106438   | 20.250  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.17  | 41   | 81538    | 19.100  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 9.17  | 88   | 21639    | 353.219 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 9.95  | 43   | 487428   | 100.203 | ug/l   | 100      |
| 52) Toluene                    | 10.12 | 92   | 170653   | 20.082  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene      | 10.35 | 75   | 112851   | 19.232  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 9.81  | 75   | 121803   | 19.679  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.53 | 97   | 71392    | 21.151  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.40 | 69   | 101533   | 19.269  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.68 | 76   | 120759   | 19.839  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.66  | 63   | 270709   | 97.936  | ug/l   | 98       |
| 59) 2-Hexanone                 | 10.72 | 43   | 355889   | 100.986 | ug/l   | 100      |
| 60) Dibromochloromethane       | 10.87 | 129  | 77192    | 20.243  | ug/l   | 97       |
| 61) 1,2-Dibromoethane          | 10.98 | 107  | 71807    | 20.477  | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.60 | 164  | 64059    | 21.589  | ug/l   | 98       |
| 65) Chlorobenzene              | 11.41 | 112  | 181736   | 19.647  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.48 | 131  | 70683    | 20.846  | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.48 | 91   | 330976   | 19.000  | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.60 | 106  | 246710   | 39.282  | ug/l   | 97       |
| 69) o-Xylene                   | 11.92 | 106  | 114913   | 19.207  | ug/l   | 99       |
| 70) Styrene                    | 11.94 | 104  | 199553   | 19.889  | ug/l   | 100      |
| 71) Bromoform                  | 12.10 | 173  | 47930    | 18.975  | ug/l # | 95       |
| 73) Isopropylbenzene           | 12.23 | 105  | 315872   | 18.957  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.05 | 43   | 141480   | 17.937  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.48 | 83   | 101974   | 19.766  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.53 | 75   | 91524m   | 17.784  | ug/l   |          |
| 77) Bromobenzene               | 12.50 | 156  | 76901    | 20.517  | ug/l   | 93       |
| 78) n-propylbenzene            | 12.57 | 91   | 365733   | 18.845  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.65 | 91   | 225902   | 19.418  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.71 | 105  | 268633   | 19.334  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.28 | 75   | 33516    | 17.854  | ug/l   | 95       |
| 82) 4-Chlorotoluene            | 12.75 | 91   | 238685   | 19.418  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 12.97 | 119  | 216999   | 18.923  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 13.02 | 105  | 264964   | 18.880  | ug/l   | 98       |
| 85) sec-Butylbenzene           | 13.15 | 105  | 283170   | 18.448  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.26 | 119  | 254368   | 18.788  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.26 | 146  | 135673   | 19.530  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.34 | 146  | 136884   | 19.381  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.59 | 91   | 222783   | 17.852  | ug/l   | 99       |
| 90) Hexachloroethane           | 13.85 | 117  | 45175    | 17.523  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.63 | 146  | 134565   | 19.730  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.24 | 75   | 22244    | 18.106  | ug/l   | 96       |

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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.88 | 180  | 72246    | 17.968 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 14.98 | 225  | 36907    | 22.172 | ug/l  | 99       |
| 95) Naphthalene            | 15.10 | 128  | 222769   | 16.770 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.28 | 180  | 67571    | 17.393 | ug/l  | 97       |

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

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