

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN083022\  
 Data File : VN074169.D  
 Acq On : 30 Aug 2022 12:24  
 Operator : JC\MD  
 Sample : VSTDICC001  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC001

Quant Time: Aug 31 06:50:44 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N083022W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 31 06:50:34 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 08/31/2022  
 Supervised By : Semsettin Yesilyurt 08/31/2022

| Compound                     | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|------------------------------|--------|-------|----------|----------|--------|----------|
| -----                        |        |       |          |          |        |          |
| Internal Standards           |        |       |          |          |        |          |
| 1) Pentafluorobenzene        | 8.010  | 168   | 281529   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.904  | 114   | 444881   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.680 | 117   | 332870   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.616 | 152   | 149978   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 0.000  | 65    | 0d       | 0.000    | ug/l   |          |
| Spiked Amount                | 50.000 | Range | 74 - 125 | Recovery | =      | 0.000%#  |
| 35) Dibromofluoromethane     | 0.000  | 113   | 0d       | 0.000    | ug/l   |          |
| Spiked Amount                | 50.000 | Range | 75 - 124 | Recovery | =      | 0.000%#  |
| 50) Toluene-d8               | 0.000  | 98    | 0d       | 0.000    | ug/l   |          |
| Spiked Amount                | 50.000 | Range | 86 - 113 | Recovery | =      | 0.000%#  |
| 62) 4-Bromofluorobenzene     | 0.000  | 95    | 0d       | 0.000    | ug/l   |          |
| Spiked Amount                | 50.000 | Range | 83 - 123 | Recovery | =      | 0.000%#  |
| Target Compounds             |        |       |          |          |        |          |
|                              |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.052  | 85    | 2611     | 0.896    | ug/l # | 67       |
| 3) Chloromethane             | 2.269  | 50    | 3691     | 0.900    | ug/l   | 94       |
| 4) Vinyl Chloride            | 2.399  | 62    | 3722     | 0.913    | ug/l # | 86       |
| 6) Chloroethane              | 2.981  | 64    | 3081m    | 0.984    | ug/l   |          |
| 7) Trichlorofluoromethane    | 3.322  | 101   | 5770     | 0.926    | ug/l # | 80       |
| 8) Diethyl Ether             | 3.757  | 74    | 2980     | 1.124    | ug/l   | 88       |
| 9) 1,1,2-Trichlorotrifluo... | 4.134  | 101   | 3900m    | 1.096    | ug/l   |          |
| 12) 1,1-Dichloroethene       | 4.122  | 96    | 3339     | 1.012    | ug/l # | 73       |
| 14) Allyl chloride           | 4.757  | 41    | 6412     | 0.871    | ug/l # | 92       |
| 15) Acrylonitrile            | 5.469  | 53    | 15033    | 4.765    | ug/l # | 68       |
| 16) Acetone                  | 4.222  | 43    | 15394    | 5.275    | ug/l # | 83       |
| 17) Carbon Disulfide         | 4.457  | 76    | 9330     | 0.993    | ug/l # | 62       |
| 18) Methyl Acetate           | 4.775  | 43    | 10693    | 1.213    | ug/l # | 67       |
| 19) Methyl tert-butyl Ether  | 5.546  | 73    | 11500m   | 0.943    | ug/l   |          |
| 20) Methylene Chloride       | 5.010  | 84    | 7574     | 1.521    | ug/l   | 92       |
| 21) trans-1,2-Dichloroethene | 5.522  | 96    | 4447     | 1.167    | ug/l # | 58       |
| 22) Diisopropyl ether        | 6.422  | 45    | 14715    | 0.981    | ug/l # | 85       |
| 23) Vinyl Acetate            | 6.351  | 43    | 54464m   | 4.301    | ug/l   |          |
| 24) 1,1-Dichloroethane       | 6.298  | 63    | 6491     | 0.877    | ug/l # | 89       |
| 25) 2-Butanone               | 7.269  | 43    | 24034    | 5.148    | ug/l # | 75       |
| 26) 2,2-Dichloropropane      | 7.228  | 77    | 6737m    | 1.309    | ug/l   |          |
| 27) cis-1,2-Dichloroethene   | 7.245  | 96    | 4827     | 1.134    | ug/l   | 87       |
| 28) Bromochloromethane       | 7.587  | 49    | 3693     | 1.254    | ug/l # | 68       |
| 29) Tetrahydrofuran          | 7.616  | 42    | 12882    | 4.333    | ug/l # | 71       |
| 30) Chloroform               | 7.745  | 83    | 8248     | 1.094    | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 7.945  | 97    | 6336     | 1.092    | ug/l # | 51       |
| 36) 1,1-Dichloropropene      | 8.140  | 75    | 5649     | 1.203    | ug/l   | 95       |
| 37) Ethyl Acetate            | 7.334  | 43    | 8874     | 1.130    | ug/l # | 89       |
| 38) Carbon Tetrachloride     | 8.134  | 117   | 6135     | 1.367    | ug/l # | 68       |
| 39) Methylcyclohexane        | 9.392  | 83    | 5698     | 1.033    | ug/l # | 74       |
| 40) Benzene                  | 8.381  | 78    | 16535    | 1.121    | ug/l   | 94       |
| 41) Methacrylonitrile        | 7.581  | 41    | 4441     | 1.225    | ug/l # | 80       |
| 42) 1,2-Dichloroethane       | 8.463  | 62    | 6264     | 1.193    | ug/l   | 84       |
| 43) Isopropyl Acetate        | 8.487  | 43    | 12125    | 1.148    | ug/l # | 79       |
| 44) Trichloroethene          | 9.134  | 130   | 3468     | 1.052    | ug/l   | 67       |
| 45) 1,2-Dichloropropane      | 9.428  | 63    | 4057     | 1.019    | ug/l   | 98       |

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 Sample : VSTDICC001  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC001

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 08/31/2022  
 Supervised By : Semsettin Yesilyurt 08/31/2022

Quant Time: Aug 31 06:50:44 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N083022W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 31 06:50:34 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) Dibromomethane            | 9.522  | 93   | 2625     | 0.987  | ug/l # | 81       |
| 47) Bromodichloromethane      | 9.698  | 83   | 5608     | 1.076  | ug/l # | 86       |
| 48) Methyl methacrylate       | 9.492  | 41   | 5488     | 1.094  | ug/l # | 71       |
| 49) 1,4-Dioxane               | 9.504  | 88   | 2277     | 21.040 | ug/l # | 81       |
| 51) 4-Methyl-2-Pentanone      | 10.269 | 43   | 35888    | 4.683  | ug/l # | 82       |
| 52) Toluene                   | 10.439 | 92   | 7719     | 0.888  | ug/l   | 87       |
| 53) t-1,3-Dichloropropene     | 10.657 | 75   | 5014     | 1.015  | ug/l   | 90       |
| 54) cis-1,3-Dichloropropene   | 10.128 | 75   | 4579     | 0.828  | ug/l # | 76       |
| 55) 1,1,2-Trichloroethane     | 10.839 | 97   | 3743     | 0.995  | ug/l # | 79       |
| 56) Ethyl methacrylate        | 10.698 | 69   | 5206     | 0.913  | ug/l # | 70       |
| 57) 1,3-Dichloropropane       | 10.986 | 76   | 6514     | 0.997  | ug/l   | 97       |
| 58) 2-Chloroethyl Vinyl ether | 9.975  | 63   | 12538    | 4.349  | ug/l   | 91       |
| 59) 2-Hexanone                | 11.028 | 43   | 24662    | 4.240  | ug/l   | 81       |
| 60) Dibromochloromethane      | 11.180 | 129  | 3363m    | 0.955  | ug/l   |          |
| 61) 1,2-Dibromoethane         | 11.280 | 107  | 3524     | 0.981  | ug/l   | 93       |
| 64) Tetrachloroethene         | 10.916 | 164  | 2610     | 1.082  | ug/l # | 78       |
| 65) Chlorobenzene             | 11.710 | 112  | 8654     | 1.155  | ug/l   | 93       |
| 66) 1,1,1,2-Tetrachloroethane | 11.780 | 131  | 2719     | 1.021  | ug/l # | 63       |
| 67) Ethyl Benzene             | 11.786 | 91   | 13981    | 1.040  | ug/l # | 85       |
| 68) m/p-Xylenes               | 11.898 | 106  | 10614    | 2.126  | ug/l   | 94       |
| 69) o-Xylene                  | 12.222 | 106  | 4824     | 0.970  | ug/l   | 77       |
| 70) Styrene                   | 12.233 | 104  | 7422     | 0.936  | ug/l # | 88       |
| 71) Bromoform                 | 12.398 | 173  | 2739     | 1.215  | ug/l # | 86       |
| 73) Isopropylbenzene          | 12.522 | 105  | 11785    | 0.918  | ug/l   | 97       |
| 74) N-amyl acetate            | 12.327 | 43   | 7880     | 1.084  | ug/l # | 79       |
| 75) 1,1,2,2-Tetrachloroethane | 12.757 | 83   | 6233     | 1.170  | ug/l   | 94       |
| 76) 1,2,3-Trichloropropane    | 12.822 | 75   | 4601m    | 1.080  | ug/l   |          |
| 77) Bromobenzene              | 12.804 | 156  | 3077     | 1.024  | ug/l   | 76       |
| 78) n-propylbenzene           | 12.863 | 91   | 13118    | 0.896  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.945 | 91   | 8574     | 0.956  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 13.004 | 105  | 9229     | 0.884  | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 13.045 | 91   | 8539     | 0.984  | ug/l   | 96       |
| 83) tert-Butylbenzene         | 13.263 | 119  | 8057     | 0.902  | ug/l   | 77       |
| 84) 1,2,4-Trimethylbenzene    | 13.304 | 105  | 9084     | 0.901  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.439 | 105  | 10198    | 0.814  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.551 | 119  | 8291     | 0.850  | ug/l   | 90       |
| 87) 1,3-Dichlorobenzene       | 13.557 | 146  | 5545     | 1.035  | ug/l   | 86       |
| 88) 1,4-Dichlorobenzene       | 13.639 | 146  | 5958m    | 1.075  | ug/l   |          |
| 89) n-Butylbenzene            | 13.874 | 91   | 7289     | 0.858  | ug/l   | 97       |
| 90) Hexachloroethane          | 14.145 | 117  | 2297     | 1.142  | ug/l   | 70       |
| 91) 1,2-Dichlorobenzene       | 13.927 | 146  | 6691     | 1.185  | ug/l   | 90       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.545 | 75   | 1112     | 1.044  | ug/l # | 43       |
| 93) 1,2,4-Trichlorobenzene    | 15.192 | 180  | 3016     | 1.092  | ug/l # | 88       |
| 94) Hexachlorobutadiene       | 15.304 | 225  | 1617     | 1.191  | ug/l   | 94       |
| 95) Naphthalene               | 15.427 | 128  | 8368     | 0.843  | ug/l   | 96       |
| 96) 1,2,3-Trichlorobenzene    | 15.615 | 180  | 2700     | 0.944  | ug/l   | 86       |

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

Reviewed By :John Carlone 08/31/2022  
Supervised By :Semsettin Yesilyurt 08/31/2022

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