

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN082323\  
 Data File : VN079010.D  
 Acq On : 23 Aug 2023 12:47  
 Operator : JC\MD  
 Sample : VN0823WBS01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0823WBS01

Quant Time: Aug 24 01:08:12 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N081523W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 16 02:42:02 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/25/2023  
 Supervised By :Mahesh Dadoda 08/25/2023

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 8.230          | 168  | 179177     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.106          | 114  | 319957     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.871         | 117  | 281106     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.794         | 152  | 118677     | 50.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.583          | 65   | 137788     | 49.419   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 98.840%  |        |          |
| 35) Dibromofluoromethane     | 8.171          | 113  | 109150     | 50.678   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 101.360% |        |          |
| 50) Toluene-d8               | 10.571         | 98   | 400163     | 50.038   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 100.080% |        |          |
| 62) 4-Bromofluorobenzene     | 12.853         | 95   | 128172     | 49.034   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 98.060%  |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.130          | 85   | 49387      | 19.865   | ug/l   | 99       |
| 3) Chloromethane             | 2.365          | 50   | 56733      | 16.344   | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.512          | 62   | 56306      | 18.496   | ug/l   | 98       |
| 5) Bromomethane              | 2.954          | 94   | 37576      | 21.499   | ug/l   | 97       |
| 6) Chloroethane              | 3.112          | 64   | 36734      | 17.261   | ug/l   | 91       |
| 7) Trichlorofluoromethane    | 3.501          | 101  | 71727      | 19.345   | ug/l   | 95       |
| 8) Diethyl Ether             | 3.965          | 74   | 27158      | 19.321   | ug/l   | 63       |
| 9) 1,1,2-Trichlorotrifluo... | 4.371          | 101  | 39739      | 20.124   | ug/l   | 98       |
| 10) Methyl Iodide            | 4.595          | 142  | 43010      | 19.466   | ug/l   | 96       |
| 11) Tert butyl alcohol       | 5.524          | 59   | 40634      | 86.852   | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 4.342          | 96   | 37876      | 19.690   | ug/l   | 82       |
| 13) Acrolein                 | 4.183          | 56   | 22269      | 79.038   | ug/l   | 98       |
| 14) Allyl chloride           | 5.030          | 41   | 63044      | 16.467   | ug/l # | 89       |
| 15) Acrylonitrile            | 5.724          | 53   | 114850     | 90.615   | ug/l   | 98       |
| 16) Acetone                  | 4.436          | 43   | 100128     | 87.035   | ug/l   | 96       |
| 17) Carbon Disulfide         | 4.706          | 76   | 102819     | 19.095   | ug/l   | 98       |
| 18) Methyl Acetate           | 5.030          | 43   | 87143      | 17.931   | ug/l # | 79       |
| 19) Methyl tert-butyl Ether  | 5.795          | 73   | 133963     | 19.333   | ug/l   | 99       |
| 20) Methylene Chloride       | 5.283          | 84   | 47451      | 19.355   | ug/l # | 70       |
| 21) trans-1,2-Dichloroethene | 5.795          | 96   | 43569      | 20.198   | ug/l # | 77       |
| 22) Diisopropyl ether        | 6.683          | 45   | 157757     | 19.478   | ug/l # | 86       |
| 23) Vinyl Acetate            | 6.612          | 43   | 502488     | 94.224   | ug/l # | 84       |
| 24) 1,1-Dichloroethane       | 6.571          | 63   | 86696      | 19.594   | ug/l   | 97       |
| 25) 2-Butanone               | 7.489          | 43   | 162100     | 87.885   | ug/l # | 73       |
| 26) 2,2-Dichloropropane      | 7.494          | 77   | 63785      | 17.834   | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 7.489          | 96   | 51545      | 19.660   | ug/l   | 89       |
| 28) Bromochloromethane       | 7.818          | 49   | 45294      | 19.298   | ug/l # | 71       |
| 29) Tetrahydrofuran          | 7.847          | 42   | 109294     | 89.524   | ug/l # | 70       |
| 30) Chloroform               | 7.965          | 83   | 87472      | 19.788   | ug/l   | 94       |
| 31) Cyclohexane              | 8.259          | 56   | 67365      | 17.665   | ug/l   | 90       |
| 32) 1,1,1-Trichloroethane    | 8.171          | 97   | 75932      | 20.146   | ug/l   | 96       |
| 36) 1,1-Dichloropropene      | 8.377          | 75   | 61815      | 19.080   | ug/l   | 95       |
| 37) Ethyl Acetate            | 7.559          | 43   | 65415      | 18.046   | ug/l # | 91       |
| 38) Carbon Tetrachloride     | 8.365          | 117  | 64566      | 19.889   | ug/l # | 95       |
| 39) Methylcyclohexane        | 9.606          | 83   | 53829      | 18.065   | ug/l   | 91       |
| 40) Benzene                  | 8.612          | 78   | 187310     | 19.560   | ug/l   | 100      |

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 Sample : VN0823WBS01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0823WBS01

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 08/25/2023  
 Supervised By : Mahesh Dadoda 08/25/2023

Quant Time: Aug 24 01:08:12 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N081523W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 16 02:42:02 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.783  | 41   | 35401    | 17.931  | ug/l # | 80       |
| 42) 1,2-Dichloroethane        | 8.677  | 62   | 70801    | 19.790  | ug/l   | 97       |
| 43) Isopropyl Acetate         | 8.694  | 43   | 120564   | 18.817  | ug/l # | 85       |
| 44) Trichloroethene           | 9.353  | 130  | 43785    | 19.243  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.624  | 63   | 50746    | 19.903  | ug/l   | 94       |
| 46) Dibromomethane            | 9.718  | 93   | 34467    | 19.709  | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.894  | 83   | 68581    | 19.860  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.683  | 41   | 50488    | 17.390  | ug/l # | 80       |
| 49) 1,4-Dioxane               | 9.700  | 88   | 18884    | 381.862 | ug/l # | 83       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43   | 340898   | 89.709  | ug/l # | 85       |
| 52) Toluene                   | 10.635 | 92   | 118169   | 20.099  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.841 | 75   | 73082    | 19.735  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene   | 10.318 | 75   | 77062    | 19.107  | ug/l # | 87       |
| 55) 1,1,2-Trichloroethane     | 11.018 | 97   | 44922    | 19.056  | ug/l   | 92       |
| 56) Ethyl methacrylate        | 10.877 | 69   | 67311    | 18.419  | ug/l # | 70       |
| 57) 1,3-Dichloropropane       | 11.165 | 76   | 82958    | 19.674  | ug/l   | 96       |
| 58) 2-Chloroethyl Vinyl ether | 10.165 | 63   | 139967   | 79.791  | ug/l   | 90       |
| 59) 2-Hexanone                | 11.200 | 43   | 241334   | 87.683  | ug/l   | 84       |
| 60) Dibromochloromethane      | 11.365 | 129  | 49318    | 19.880  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.471 | 107  | 46480    | 19.402  | ug/l   | 96       |
| 64) Tetrachloroethene         | 11.106 | 164  | 35439    | 20.103  | ug/l   | 92       |
| 65) Chlorobenzene             | 11.894 | 112  | 122145   | 20.413  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.965 | 131  | 46072    | 20.374  | ug/l   | 96       |
| 67) Ethyl Benzene             | 11.965 | 91   | 213314   | 19.603  | ug/l   | 99       |
| 68) m/p-Xylenes               | 12.077 | 106  | 162780   | 40.011  | ug/l   | 100      |
| 69) o-Xylene                  | 12.400 | 106  | 77986    | 19.705  | ug/l   | 96       |
| 70) Styrene                   | 12.412 | 104  | 128963   | 19.542  | ug/l   | 97       |
| 71) Bromoform                 | 12.582 | 173  | 32466    | 19.748  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.700 | 105  | 191287   | 19.331  | ug/l   | 97       |
| 74) N-amyl acetate            | 12.500 | 43   | 86167    | 17.251  | ug/l # | 87       |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 70741    | 19.799  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 13.000 | 75   | 54370m   | 19.014  | ug/l   |          |
| 77) Bromobenzene              | 12.982 | 156  | 48088    | 20.217  | ug/l   | 99       |
| 78) n-propylbenzene           | 13.041 | 91   | 214491   | 18.692  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 13.129 | 91   | 139456   | 19.592  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 151802   | 19.358  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.741 | 75   | 22002    | 19.655  | ug/l   | 91       |
| 82) 4-Chlorotoluene           | 13.224 | 91   | 130948   | 18.801  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.441 | 119  | 122220   | 18.550  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.488 | 105  | 151040   | 19.452  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.618 | 105  | 169148   | 18.654  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.735 | 119  | 134649   | 18.586  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.735 | 146  | 76753    | 18.752  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.818 | 146  | 76690    | 18.720  | ug/l   | 100      |
| 89) n-Butylbenzene            | 14.059 | 91   | 105220   | 17.649  | ug/l   | 98       |
| 90) Hexachloroethane          | 14.335 | 117  | 27233    | 18.753  | ug/l   | 84       |
| 91) 1,2-Dichlorobenzene       | 14.112 | 146  | 78637    | 19.320  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.729 | 75   | 12426    | 18.279  | ug/l   | 91       |
| 93) 1,2,4-Trichlorobenzene    | 15.400 | 180  | 24205    | 16.775  | ug/l   | 96       |
| 94) Hexachlorobutadiene       | 15.500 | 225  | 14648    | 17.522  | ug/l   | 97       |
| 95) Naphthalene               | 15.647 | 128  | 64829    | 13.818  | ug/l   | 97       |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180  | 25590    | 16.192  | ug/l   | 97       |

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Sample : VN0823WBS01  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0823WBS01

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 08/25/2023  
Supervised By :Mahesh Dadoda 08/25/2023

Quant Time: Aug 24 01:08:12 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N081523W.M  
Quant Title : SW846 8260  
QLast Update : Wed Aug 16 02:42:02 2023  
Response via : Initial Calibration

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

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

