

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080723\  
 Data File : VN078783.D  
 Acq On : 07 Aug 2023 18:52  
 Operator : JC\MD  
 Sample : VSTDICCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICCC050

Quant Time: Aug 08 05:14:06 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N080723W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 08 05:03:52 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 08/08/2023  
 Supervised By : Semsettin Yesilyurt 08/08/2023

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 8.235          | 168  | 166710              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.106          | 114  | 294958              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.871         | 117  | 261287              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.794         | 152  | 106281              | 50.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.588          | 65   | 125584              | 50.249  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 100.500% |         |        |          |
| 35) Dibromofluoromethane     | 8.177          | 113  | 101886              | 51.151  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 102.300% |         |        |          |
| 50) Toluene-d8               | 10.576         | 98   | 385568              | 52.601  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 105.200% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.853         | 95   | 122257              | 55.808  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 111.620% |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.136          | 85   | 119699              | 48.653  | ug/l   | 98       |
| 3) Chloromethane             | 2.371          | 50   | 133879              | 46.651  | ug/l   | 96       |
| 4) Vinyl Chloride            | 2.518          | 62   | 132418              | 48.868  | ug/l   | 98       |
| 5) Bromomethane              | 2.948          | 94   | 85504               | 44.554  | ug/l   | 93       |
| 6) Chloroethane              | 3.124          | 64   | 82680               | 46.405  | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 3.501          | 101  | 179871              | 48.325  | ug/l   | 97       |
| 8) Diethyl Ether             | 3.971          | 74   | 67272               | 49.532  | ug/l   | 64       |
| 9) 1,1,2-Trichlorotrifluo... | 4.377          | 101  | 95133               | 49.070  | ug/l   | 98       |
| 10) Methyl Iodide            | 4.595          | 142  | 128667              | 51.684  | ug/l   | 98       |
| 11) Tert butyl alcohol       | 5.547          | 59   | 98864               | 225.396 | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 4.353          | 96   | 90636               | 46.520  | ug/l   | 95       |
| 13) Acrolein                 | 4.189          | 56   | 94352               | 254.235 | ug/l   | 100      |
| 14) Allyl chloride           | 5.036          | 41   | 178965              | 55.167  | ug/l # | 90       |
| 15) Acrylonitrile            | 5.736          | 53   | 286935              | 251.198 | ug/l   | 99       |
| 16) Acetone                  | 4.442          | 43   | 228900              | 238.040 | ug/l   | 91       |
| 17) Carbon Disulfide         | 4.718          | 76   | 265336              | 47.741  | ug/l   | 99       |
| 18) Methyl Acetate           | 5.042          | 43   | 211606              | 48.995  | ug/l # | 79       |
| 19) Methyl tert-butyl Ether  | 5.812          | 73   | 328259              | 49.876  | ug/l   | 94       |
| 20) Methylene Chloride       | 5.283          | 84   | 112043              | 47.047  | ug/l # | 81       |
| 21) trans-1,2-Dichloroethene | 5.800          | 96   | 105336              | 48.313  | ug/l   | 86       |
| 22) Diisopropyl ether        | 6.683          | 45   | 388699              | 49.874  | ug/l # | 89       |
| 23) Vinyl Acetate            | 6.618          | 43   | 1233332             | 252.172 | ug/l # | 86       |
| 24) 1,1-Dichloroethane       | 6.577          | 63   | 206787              | 48.793  | ug/l   | 96       |
| 25) 2-Butanone               | 7.494          | 43   | 400246              | 245.798 | ug/l # | 78       |
| 26) 2,2-Dichloropropane      | 7.500          | 77   | 150496              | 50.851  | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 7.488          | 96   | 120505              | 48.140  | ug/l   | 86       |
| 28) Bromochloromethane       | 7.824          | 49   | 111902              | 48.728  | ug/l # | 71       |
| 29) Tetrahydrofuran          | 7.847          | 42   | 274325              | 251.751 | ug/l # | 71       |
| 30) Chloroform               | 7.977          | 83   | 208281              | 48.798  | ug/l   | 96       |
| 31) Cyclohexane              | 8.265          | 56   | 169110              | 46.052  | ug/l   | 84       |
| 32) 1,1,1-Trichloroethane    | 8.177          | 97   | 180971              | 49.882  | ug/l   | 93       |
| 36) 1,1-Dichloropropene      | 8.377          | 75   | 155354              | 50.273  | ug/l   | 95       |
| 37) Ethyl Acetate            | 7.571          | 43   | 170386              | 51.858  | ug/l # | 89       |
| 38) Carbon Tetrachloride     | 8.371          | 117  | 158170              | 49.650  | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.606          | 83   | 144737              | 50.144  | ug/l # | 85       |
| 40) Benzene                  | 8.612          | 78   | 467682              | 50.036  | ug/l   | 98       |

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 Sample : VSTDICCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

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 Supervised By :Semsettin Yesilyurt 08/08/2023

Quant Time: Aug 08 05:14:06 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N080723W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 08 05:03:52 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.788  | 41   | 92045    | 50.385  | ug/l # | 80       |
| 42) 1,2-Dichloroethane        | 8.677  | 62   | 163254   | 48.594  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.700  | 43   | 281731   | 50.858  | ug/l # | 87       |
| 44) Trichloroethene           | 9.359  | 130  | 110291   | 48.180  | ug/l   | 100      |
| 45) 1,2-Dichloropropane       | 9.630  | 63   | 122068   | 48.717  | ug/l   | 96       |
| 46) Dibromomethane            | 9.712  | 93   | 81698    | 48.990  | ug/l   | 95       |
| 47) Bromodichloromethane      | 9.894  | 83   | 165368   | 49.821  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.688  | 41   | 128270   | 50.114  | ug/l # | 78       |
| 49) 1,4-Dioxane               | 9.706  | 88   | 40750    | 980.440 | ug/l # | 80       |
| 51) 4-Methyl-2-Pentanone      | 10.453 | 43   | 855549   | 252.147 | ug/l # | 86       |
| 52) Toluene                   | 10.635 | 92   | 287294   | 50.330  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.841 | 75   | 173384   | 51.123  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 10.318 | 75   | 189013   | 51.297  | ug/l # | 86       |
| 55) 1,1,2-Trichloroethane     | 11.024 | 97   | 110274   | 48.599  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.882 | 69   | 174101   | 52.913  | ug/l # | 74       |
| 57) 1,3-Dichloropropane       | 11.171 | 76   | 193644   | 49.087  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.165 | 63   | 312575   | 264.613 | ug/l   | 89       |
| 59) 2-Hexanone                | 11.200 | 43   | 615294   | 256.098 | ug/l   | 84       |
| 60) Dibromochloromethane      | 11.365 | 129  | 122017   | 51.237  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.476 | 107  | 112515   | 50.065  | ug/l   | 97       |
| 64) Tetrachloroethene         | 11.112 | 164  | 96993    | 48.178  | ug/l   | 96       |
| 65) Chlorobenzene             | 11.900 | 112  | 293706   | 49.359  | ug/l   | 95       |
| 66) 1,1,1,2-Tetrachloroethane | 11.971 | 131  | 111234   | 48.265  | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.971 | 91   | 532742   | 50.264  | ug/l   | 99       |
| 68) m/p-Xylenes               | 12.076 | 106  | 394463   | 100.879 | ug/l   | 98       |
| 69) o-Xylene                  | 12.406 | 106  | 197902   | 51.558  | ug/l   | 99       |
| 70) Styrene                   | 12.418 | 104  | 320684   | 53.233  | ug/l   | 98       |
| 71) Bromoform                 | 12.582 | 173  | 81628    | 50.781  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.700 | 105  | 487545   | 46.610  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.500 | 43   | 222102   | 46.808  | ug/l # | 84       |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 155513   | 43.747  | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane    | 13.000 | 75   | 132058m  | 45.957  | ug/l   |          |
| 77) Bromobenzene              | 12.988 | 156  | 113238   | 46.138  | ug/l   | 96       |
| 78) n-propylbenzene           | 13.041 | 91   | 548247   | 47.687  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 13.129 | 91   | 339053   | 45.904  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 13.182 | 105  | 393933   | 47.012  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.741 | 75   | 54725    | 51.104  | ug/l # | 81       |
| 82) 4-Chlorotoluene           | 13.229 | 91   | 324284   | 47.992  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.447 | 119  | 326283   | 46.752  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.488 | 105  | 387357   | 48.100  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.623 | 105  | 439101   | 48.118  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.735 | 119  | 354313   | 48.829  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.741 | 146  | 190999   | 48.725  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.817 | 146  | 191566   | 49.300  | ug/l   | 100      |
| 89) n-Butylbenzene            | 14.065 | 91   | 274635   | 50.443  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.335 | 117  | 69744    | 46.375  | ug/l   | 92       |
| 91) 1,2-Dichlorobenzene       | 14.112 | 146  | 189832   | 50.270  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.723 | 75   | 25722    | 47.172  | ug/l   | 99       |
| 93) 1,2,4-Trichlorobenzene    | 15.400 | 180  | 60294    | 56.826  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.506 | 225  | 34860    | 54.047  | ug/l   | 98       |
| 95) Naphthalene               | 15.647 | 128  | 192295   | 54.296  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.847 | 180  | 65038    | 51.477  | ug/l   | 98       |

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ALS Vial : 19 Sample Multiplier: 1

Instrument :  
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VSTDICCC050

Manual Integrations  
APPROVED

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Quant Time: Aug 08 05:14:06 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N080723W.M  
Quant Title : SW846 8260  
QLast Update : Tue Aug 08 05:03:52 2023  
Response via : Initial Calibration

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

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

