

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN060623\  
 Data File : VN078083.D  
 Acq On : 06 Jun 2023 22:34  
 Operator : JC\MD  
 Sample : VSTDICC005  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC005

Quant Time: Jun 07 04:29:44 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N060623W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 07 04:24:57 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 06/07/2023  
 Supervised By : Mahesh Dadoda 06/07/2023

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 8.229          | 168  | 465036     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.106          | 114  | 833242     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.870         | 117  | 688461     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.800         | 152  | 212336     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.582          | 65   | 31929      | 5.150    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 10.300%# |        |          |
| 35) Dibromofluoromethane     | 8.177          | 113  | 26842      | 5.095    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 10.180%# |        |          |
| 50) Toluene-d8               | 10.576         | 98   | 103520     | 5.097    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 10.200%# |        |          |
| 62) 4-Bromofluorobenzene     | 12.859         | 95   | 29298      | 4.640    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 9.280%#  |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.136          | 85   | 29342      | 5.582    | ug/l   | 94       |
| 3) Chloromethane             | 2.371          | 50   | 29237      | 4.242    | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.524          | 62   | 36062      | 5.239    | ug/l   | 98       |
| 5) Bromomethane              | 2.953          | 94   | 32210      | 6.192    | ug/l   | 93       |
| 6) Chloroethane              | 3.124          | 64   | 24180      | 5.153    | ug/l   | 93       |
| 7) Trichlorofluoromethane    | 3.506          | 101  | 48251      | 5.169    | ug/l   | 94       |
| 8) Diethyl Ether             | 3.971          | 74   | 17511      | 5.339    | ug/l   | 86       |
| 9) 1,1,2-Trichlorotrifluo... | 4.371          | 101  | 26832      | 5.447    | ug/l   | 98       |
| 10) Methyl Iodide            | 4.594          | 142  | 35560      | 5.104    | ug/l   | 92       |
| 11) Tert butyl alcohol       | 5.530          | 59   | 23969      | 27.997   | ug/l   | 96       |
| 12) 1,1-Dichloroethene       | 4.353          | 96   | 25835      | 5.590    | ug/l   | 90       |
| 13) Acrolein                 | 4.194          | 56   | 29096      | 30.836   | ug/l   | 97       |
| 14) Allyl chloride           | 5.041          | 41   | 32873      | 5.303    | ug/l   | 95       |
| 15) Acrylonitrile            | 5.730          | 53   | 56662      | 25.671   | ug/l   | 99       |
| 16) Acetone                  | 4.441          | 43   | 46188      | 25.880   | ug/l   | 91       |
| 17) Carbon Disulfide         | 4.718          | 76   | 67386      | 5.155    | ug/l   | 100      |
| 18) Methyl Acetate           | 5.041          | 43   | 40332      | 4.909    | ug/l   | 93       |
| 19) Methyl tert-butyl Ether  | 5.806          | 73   | 82025      | 5.063    | ug/l   | 94       |
| 20) Methylene Chloride       | 5.283          | 84   | 31815      | 5.395    | ug/l # | 90       |
| 21) trans-1,2-Dichloroethene | 5.800          | 96   | 28369      | 5.180    | ug/l # | 79       |
| 22) Diisopropyl ether        | 6.682          | 45   | 72048      | 4.941    | ug/l   | 92       |
| 23) Vinyl Acetate            | 6.618          | 43   | 211655     | 24.419   | ug/l # | 87       |
| 24) 1,1-Dichloroethane       | 6.577          | 63   | 49519      | 5.148    | ug/l   | 94       |
| 25) 2-Butanone               | 7.500          | 43   | 70224      | 25.587   | ug/l   | 97       |
| 26) 2,2-Dichloropropane      | 7.500          | 77   | 34315      | 4.831    | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 7.494          | 96   | 33143      | 5.073    | ug/l   | 99       |
| 28) Bromochloromethane       | 7.812          | 49   | 22509      | 5.097    | ug/l   | 95       |
| 29) Tetrahydrofuran          | 7.847          | 42   | 43363      | 23.635   | ug/l   | 87       |
| 30) Chloroform               | 7.977          | 83   | 50807      | 4.905    | ug/l   | 95       |
| 31) Cyclohexane              | 8.259          | 56   | 47001      | 5.909    | ug/l # | 89       |
| 32) 1,1,1-Trichloroethane    | 8.177          | 97   | 46394      | 5.102    | ug/l   | 90       |
| 36) 1,1-Dichloropropene      | 8.382          | 75   | 39383      | 5.211    | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.571          | 43   | 30405      | 5.150    | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 8.365          | 117  | 40280      | 5.048    | ug/l # | 82       |
| 39) Methylcyclohexane        | 9.612          | 83   | 40083      | 5.118    | ug/l   | 94       |
| 40) Benzene                  | 8.612          | 78   | 114688     | 5.083    | ug/l   | 100      |

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 Sample : VSTDICC005  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC005

Quant Time: Jun 07 04:29:44 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N060623W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 07 04:24:57 2023  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 06/07/2023  
 Supervised By : Mahesh Dadoda 06/07/2023

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 7.788  | 41   | 16823    | 5.257  | ug/l   | 91       |
| 42) 1,2-Dichloroethane        | 8.682  | 62   | 38885    | 5.027  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.700  | 43   | 62158    | 5.505  | ug/l # | 88       |
| 44) Trichloroethene           | 9.353  | 130  | 29920    | 5.022  | ug/l   | 94       |
| 45) 1,2-Dichloropropane       | 9.635  | 63   | 28530    | 5.083  | ug/l   | 97       |
| 46) Dibromomethane            | 9.718  | 93   | 20884    | 5.051  | ug/l   | 94       |
| 47) Bromodichloromethane      | 9.900  | 83   | 38050    | 4.954  | ug/l   | 95       |
| 48) Methyl methacrylate       | 9.682  | 41   | 24495    | 5.170  | ug/l   | 88       |
| 49) 1,4-Dioxane               | 9.700  | 88   | 9726     | 97.667 | ug/l # | 88       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43   | 146843   | 24.699 | ug/l   | 92       |
| 52) Toluene                   | 10.635 | 92   | 71362    | 5.010  | ug/l   | 93       |
| 53) t-1,3-Dichloropropene     | 10.841 | 75   | 36827    | 4.604  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 10.318 | 75   | 43898    | 4.965  | ug/l   | 93       |
| 55) 1,1,2-Trichloroethane     | 11.023 | 97   | 28533    | 5.295  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.882 | 69   | 39037    | 4.975  | ug/l   | 95       |
| 57) 1,3-Dichloropropane       | 11.170 | 76   | 46453    | 5.107  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 10.165 | 63   | 76752    | 24.215 | ug/l   | 93       |
| 59) 2-Hexanone                | 11.200 | 43   | 102015   | 24.643 | ug/l   | 92       |
| 60) Dibromochloromethane      | 11.365 | 129  | 28025    | 4.753  | ug/l   | 95       |
| 61) 1,2-Dibromoethane         | 11.476 | 107  | 28019    | 4.955  | ug/l   | 98       |
| 64) Tetrachloroethene         | 11.106 | 164  | 24250    | 5.280  | ug/l   | 94       |
| 65) Chlorobenzene             | 11.900 | 112  | 75799    | 5.141  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane | 11.970 | 131  | 26958    | 4.971  | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.970 | 91   | 131070   | 5.152  | ug/l   | 96       |
| 68) m/p-Xylenes               | 12.076 | 106  | 97994    | 10.107 | ug/l   | 99       |
| 69) o-Xylene                  | 12.406 | 106  | 49805    | 5.231  | ug/l   | 97       |
| 70) Styrene                   | 12.417 | 104  | 71902    | 4.797  | ug/l   | 98       |
| 71) Bromoform                 | 12.582 | 173  | 16727    | 4.780  | ug/l # | 96       |
| 73) Isopropylbenzene          | 12.700 | 105  | 117655   | 5.860  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.500 | 43   | 35086    | 5.306  | ug/l   | 94       |
| 75) 1,1,2,2-Tetrachloroethane | 12.947 | 83   | 38197    | 4.699  | ug/l   | 94       |
| 76) 1,2,3-Trichloropropane    | 13.000 | 75   | 24737m   | 4.907  | ug/l   |          |
| 77) Bromobenzene              | 12.982 | 156  | 26447    | 5.674  | ug/l   | 98       |
| 78) n-propylbenzene           | 13.041 | 91   | 123456   | 5.659  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 13.129 | 91   | 80276    | 5.701  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 94397    | 5.807  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.741 | 75   | 8877     | 5.433  | ug/l # | 78       |
| 82) 4-Chlorotoluene           | 13.229 | 91   | 73116    | 5.563  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.447 | 119  | 82872    | 5.865  | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene    | 13.488 | 105  | 92129    | 5.845  | ug/l   | 97       |
| 85) sec-Butylbenzene          | 13.623 | 105  | 107733   | 5.825  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.735 | 119  | 86992    | 5.796  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.735 | 146  | 42708    | 5.417  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.817 | 146  | 40428    | 5.314  | ug/l   | 93       |
| 89) n-Butylbenzene            | 14.058 | 91   | 68972    | 5.826  | ug/l   | 95       |
| 90) Hexachloroethane          | 14.341 | 117  | 15035    | 5.645  | ug/l   | 94       |
| 91) 1,2-Dichlorobenzene       | 14.106 | 146  | 42393    | 5.502  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.729 | 75   | 5283     | 5.312  | ug/l   | 77       |
| 93) 1,2,4-Trichlorobenzene    | 15.394 | 180  | 12792    | 4.659  | ug/l   | 93       |
| 94) Hexachlorobutadiene       | 15.511 | 225  | 9652     | 4.748  | ug/l   | 94       |
| 95) Naphthalene               | 15.647 | 128  | 42111    | 4.560  | ug/l   | 97       |
| 96) 1,2,3-Trichlorobenzene    | 15.847 | 180  | 14838    | 4.832  | ug/l   | 88       |

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Sample : VSTDICC005  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC005

Manual Integrations  
APPROVED

Reviewed By :John Carlone 06/07/2023  
Supervised By :Mahesh Dadoda 06/07/2023

Quant Time: Jun 07 04:29:44 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N060623W.M  
Quant Title : SW846 8260  
QLast Update : Wed Jun 07 04:24:57 2023  
Response via : Initial Calibration

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

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

