

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN032423\  
 Data File : VN077168.D  
 Acq On : 23 Mar 2023 23:47  
 Operator : JC\MD  
 Sample : VSTDICC100  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC100

Quant Time: Mar 24 04:57:49 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N032423W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Mar 24 04:51:59 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Krupa Patel 03/24/2023  
 Supervised By :Semsettin Yesilyurt 03/27/2023

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Bromochloromethane        | 7.819          | 128  | 42878               | 30.000  | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 9.107          | 114  | 304139              | 30.000  | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 11.872         | 117  | 354133              | 30.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 27) 1,2-Dichloroethane-d4    | 8.584          | 65   | 129324              | 32.066  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = 106.900% |         |        |          |
| 60) 4-Bromofluorobenzene     | 12.854         | 95   | 189876              | 28.656  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = 95.533%  |         |        |          |
| 63) Toluene-d8               | 10.572         | 98   | 365007              | 29.116  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = 97.067%  |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 2.137          | 85   | 236883              | 47.166  | ug/l   | 96       |
| 3) Chloromethane             | 2.372          | 50   | 342365              | 66.007  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.525          | 62   | 590478              | 119.605 | ug/l   | 96       |
| 5) Bromomethane              | 2.925          | 94   | 420834              | 128.752 | ug/l   | 93       |
| 6) Chloroethane              | 3.107          | 64   | 445402              | 137.441 | ug/l   | 93       |
| 7) Trichlorofluoromethane    | 3.501          | 101  | 945905              | 107.741 | ug/l   | 94       |
| 8) Diethyl Ether             | 3.972          | 74   | 339059              | 105.090 | ug/l   | 95       |
| 9) 1,1,2-Trichlorotrifluo... | 4.372          | 101  | 475181              | 97.292  | ug/l   | 98       |
| 10) 1,1-Dichloroethene       | 4.343          | 96   | 458756              | 97.195  | ug/l   | 94       |
| 11) Methyl Iodide            | 4.601          | 142  | 538462              | 98.283  | ug/l   | 93       |
| 12) Methyl Acetate           | 5.031          | 43   | 999762              | 121.834 | ug/l   | 96       |
| 13) Acrolein                 | 4.190          | 56   | 693027              | 579.416 | ug/l   | 98       |
| 14) Acrylonitrile            | 5.731          | 53   | 1542278             | 579.821 | ug/l   | 99       |
| 15) Acetone                  | 4.437          | 58   | 386831              | 540.363 | ug/l   | 89       |
| 16) Carbon Disulfide         | 4.725          | 76   | 1294233             | 99.084  | ug/l   | 97       |
| 17) Allyl chloride           | 5.031          | 41   | 810041              | 111.717 | ug/l   | 94       |
| 18) Methylene Chloride       | 5.284          | 84   | 545642              | 97.412  | ug/l   | 96       |
| 19) trans-1,2-Dichloroethene | 5.795          | 96   | 491791              | 98.893  | ug/l   | 92       |
| 20) Diisopropyl ether        | 6.684          | 45   | 1840902             | 111.919 | ug/l   | 91       |
| 21) 1,1-Dichloroethane       | 6.578          | 63   | 1011925             | 104.478 | ug/l   | 97       |
| 22) cis-1,2-Dichloroethene   | 7.495          | 96   | 581005              | 101.377 | ug/l   | 98       |
| 23) tert-Butyl Alcohol       | 5.537          | 59   | 539353              | 680.353 | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 5.807          | 73   | 1682419             | 108.279 | ug/l   | 99       |
| 25) Chloroform               | 7.972          | 83   | 991723              | 99.937  | ug/l   | 99       |
| 26) Cyclohexane              | 8.260          | 56   | 897213              | 103.395 | ug/l # | 94       |
| 29) 1,1-Dichloropropene      | 8.378          | 75   | 755797              | 102.775 | ug/l   | 98       |
| 30) 2-Butanone               | 7.489          | 43   | 2194389             | 619.177 | ug/l   | 99       |
| 31) 2,2-Dichloropropane      | 7.495          | 77   | 683798              | 95.358  | ug/l # | 64       |
| 32) 1,1,1-Trichloroethane    | 8.178          | 97   | 888198              | 103.083 | ug/l   | 99       |
| 33) Carbon Tetrachloride     | 8.366          | 117  | 764280              | 100.911 | ug/l   | 93       |
| 34) Benzene                  | 8.613          | 78   | 2240939             | 99.291  | ug/l   | 97       |
| 35) Methacrylonitrile        | 7.784          | 41   | 489256              | 123.282 | ug/l   | 97       |
| 36) 1,2-Dichloroethane       | 8.678          | 62   | 824084              | 106.444 | ug/l   | 99       |
| 37) Trichloroethene          | 9.354          | 130  | 516764              | 94.680  | ug/l   | 97       |
| 38) Methylcyclohexane        | 9.607          | 83   | 945208              | 105.244 | ug/l   | 98       |
| 39) 1,2-Dichloropropane      | 9.625          | 63   | 598427              | 102.596 | ug/l   | 93       |
| 40) Dibromomethane           | 9.713          | 93   | 385708              | 103.593 | ug/l   | 96       |
| 41) Bromodichloromethane     | 9.895          | 83   | 795162              | 104.512 | ug/l   | 100      |
| 42) Vinyl Acetate            | 6.613          | 43   | 6662623             | 614.637 | ug/l   | 100      |

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 Sample : VSTDICC100  
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 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC100

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Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 03/24/2023  
 Supervised By :Semsettin Yesilyurt 03/27/2023

| Compound                      | R.T.   | QIon | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|------|----------|----------|-------|----------|
| 43) Ethyl Acetate             | 7.566  | 43   | 872566   | 122.766  | ug/l  | 97       |
| 44) Isopropyl Acetate         | 8.695  | 43   | 1434343  | 124.799  | ug/l  | 100      |
| 45) 1,4-Dioxane               | 9.701  | 88   | 244712   | 2515.951 | ug/l  | 98       |
| 46) Methyl methacrylate       | 9.689  | 41   | 682789   | 122.728  | ug/l  | 100      |
| 47) n-amyl Acetate            | 12.495 | 43   | 1292778  | 139.024  | ug/l  | 99       |
| 48) t-1,3-Dichloropropene     | 10.842 | 75   | 863554   | 113.766  | ug/l  | 97       |
| 49) cis-1,3-Dichloropropene   | 10.319 | 75   | 917578   | 107.018  | ug/l  | 96       |
| 50) 1,1,2-Trichloroethane     | 11.019 | 97   | 548058   | 100.763  | ug/l  | 98       |
| 51) Ethyl methacrylate        | 10.877 | 69   | 928834   | 116.760  | ug/l  | 95       |
| 52) 1,3-Dichloropropane       | 11.166 | 76   | 975329   | 104.158  | ug/l  | 99       |
| 53) Dibromochloromethane      | 11.360 | 129  | 592343   | 107.518  | ug/l  | 100      |
| 54) 1,2-Dibromoethane         | 11.472 | 107  | 562560   | 107.511  | ug/l  | 99       |
| 55) 2-Chloroethyl vinyl ether | 10.166 | 63   | 1907606  | 657.651  | ug/l  | 98       |
| 56) Bromoform                 | 12.583 | 173  | 439064   | 119.560  | ug/l  | 100      |
| 58) 4-Methyl-2-Pentanone      | 10.448 | 43   | 4598466  | 597.537  | ug/l  | 97       |
| 59) 2-Hexanone                | 11.201 | 43   | 3414197  | 621.375  | ug/l  | 98       |
| 61) Tetrachloroethene         | 11.107 | 164  | 436867   | 80.054   | ug/l  | 96       |
| 62) Toluene                   | 10.636 | 91   | 2467843  | 98.983   | ug/l  | 100      |
| 64) Chlorobenzene             | 11.895 | 112  | 1469780  | 100.412  | ug/l  | 95       |
| 65) 1,1,1,2-Tetrachloroethane | 11.966 | 131  | 538218   | 97.635   | ug/l  | 97       |
| 66) Ethyl Benzene             | 11.966 | 91   | 2815547  | 104.632  | ug/l  | 98       |
| 67) m/p-Xylenes               | 12.077 | 106  | 2149455  | 210.975  | ug/l  | 95       |
| 68) o-Xylene                  | 12.401 | 106  | 1048695  | 105.363  | ug/l  | 99       |
| 69) Styrene                   | 12.413 | 104  | 1767386  | 110.095  | ug/l  | 99       |
| 70) Isopropylbenzene          | 12.701 | 105  | 2792635  | 108.008  | ug/l  | 98       |
| 71) 1,1,2,2-Tetrachloroethane | 12.942 | 83   | 859831   | 106.975  | ug/l  | 99       |
| 72) 1,2,3-Trichloropropane    | 12.995 | 75   | 793097m  | 107.286  | ug/l  |          |
| 73) Bromobenzene              | 12.983 | 156  | 610382   | 104.140  | ug/l  | 94       |
| 74) n-propylbenzene           | 13.042 | 91   | 3301347  | 108.866  | ug/l  | 100      |
| 75) 2-Chlorotoluene           | 13.130 | 91   | 1910972  | 101.834  | ug/l  | 99       |
| 76) 1,3,5-Trimethylbenzene    | 13.177 | 105  | 2334685  | 104.687  | ug/l  | 95       |
| 77) t-1,4-Dichloro-2-butene   | 12.742 | 75   | 269241   | 122.079  | ug/l  | 99       |
| 78) 4-Chlorotoluene           | 13.224 | 91   | 1891532  | 104.755  | ug/l  | 96       |
| 79) tert-butylbenzene         | 13.442 | 119  | 1998883  | 107.010  | ug/l  | 96       |
| 80) 1,2,4-Trimethylbenzene    | 13.489 | 105  | 2359968  | 108.131  | ug/l  | 96       |
| 81) sec-Butylbenzene          | 13.618 | 105  | 2956841  | 111.295  | ug/l  | 99       |
| 82) p-Isopropyltoluene        | 13.736 | 119  | 2434151  | 113.830  | ug/l  | 98       |
| 83) 1,3-Dichlorobenzene       | 13.736 | 146  | 1173027  | 108.503  | ug/l  | 99       |
| 84) 1,4-Dichlorobenzene       | 13.818 | 146  | 1158243  | 110.801  | ug/l  | 97       |
| 85) n-Butylbenzene            | 14.060 | 91   | 2117620  | 117.518  | ug/l  | 99       |
| 86) Hexachloroethane          | 14.336 | 117  | 433916   | 111.467  | ug/l  | 95       |
| 87) 1,2-Dichlorobenzene       | 14.107 | 146  | 1148156  | 106.798  | ug/l  | 98       |
| 88) 1,2-Dibromo-3-Chloropr... | 14.724 | 75   | 173781   | 112.059  | ug/l  | 96       |
| 89) 1,2,4-Trichlorobenzene    | 15.395 | 180  | 580322   | 105.794  | ug/l  | 99       |
| 90) Hexachlorobutadiene       | 15.507 | 225  | 283174   | 95.771   | ug/l  | 97       |
| 91) Naphthalene               | 15.648 | 128  | 1987542  | 114.104  | ug/l  | 99       |
| 92) 1,2,3-Trichlorobenzene    | 15.842 | 180  | 567594   | 103.179  | ug/l  | 98       |

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

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 Sample : VSTDICC100  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 32 Sample Multiplier: 1

## Instrument :

MSVOA\_N

## ClientSampleId :

VSTDICC100

## Manual Integrations

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Reviewed By :Krupa Patel 03/24/2023

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