

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN061322\  
 Data File : VN072797.D  
 Acq On : 13 Jun 2022 11:02  
 Operator : JC\MD  
 Sample : VSTDICC005  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC005

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 06/14/2022  
 Supervised By : Mahesh Dadoda 06/14/2022

Quant Time: Jun 13 13:33:58 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N061322W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jun 13 13:32:38 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 8.080          | 168  | 143547     | 50.000   | ug/l   | # 0.00   |
| 34) 1,4-Difluorobenzene      | 8.963          | 114  | 268184     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.739         | 117  | 280030     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.668         | 152  | 121612     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.433          | 65   | 21600      | 8.370    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 61 - 141 |      | Recovery = | 16.740%# |        |          |
| 35) Dibromofluoromethane     | 8.016          | 113  | 13724      | 6.942    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 69 - 133 |      | Recovery = | 13.880%# |        |          |
| 50) Toluene-d8               | 10.439         | 98   | 53463      | 7.009    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 65 - 126 |      | Recovery = | 14.020%# |        |          |
| 62) 4-Bromofluorobenzene     | 12.727         | 95   | 17734      | 6.900    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 135 |      | Recovery = | 13.800%# |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 2.069          | 85   | 12618      | 6.742    | ug/l   | 97       |
| 3) Chloromethane             | 2.293          | 50   | 15727      | 7.794    | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.434          | 62   | 14973      | 8.906    | ug/l   | 97       |
| 5) Bromomethane              | 2.822          | 94   | 6310       | 6.709    | ug/l   | 87       |
| 6) Chloroethane              | 2.998          | 64   | 11317      | 10.158   | ug/l   | 94       |
| 7) Trichlorofluoromethane    | 3.363          | 101  | 23219      | 7.679    | ug/l   | 95       |
| 8) Diethyl Ether             | 3.822          | 74   | 9149       | 8.284    | ug/l   | 80       |
| 9) 1,1,2-Trichlorotrifluo... | 4.204          | 101  | 12798      | 7.744    | ug/l   | 91       |
| 10) Methyl Iodide            | 4.404          | 142  | 6614       | 3.380    | ug/l # | 81       |
| 11) Tert butyl alcohol       | 5.369          | 59   | 20104      | 44.581   | ug/l   | 96       |
| 12) 1,1-Dichloroethene       | 4.169          | 96   | 11385      | 7.453    | ug/l   | 86       |
| 13) Acrolein                 | 4.034          | 56   | 7098       | 22.056   | ug/l   | 91       |
| 14) Allyl chloride           | 4.834          | 41   | 25628      | 8.593    | ug/l   | 91       |
| 15) Acrylonitrile            | 5.545          | 53   | 46973      | 41.610   | ug/l   | 95       |
| 16) Acetone                  | 4.281          | 43   | 45521      | 44.394   | ug/l   | 97       |
| 17) Carbon Disulfide         | 4.516          | 76   | 31000      | 8.125    | ug/l   | 97       |
| 18) Methyl Acetate           | 4.851          | 43   | 24921      | 8.494    | ug/l # | 88       |
| 19) Methyl tert-butyl Ether  | 5.610          | 73   | 50328      | 8.597    | ug/l   | 99       |
| 20) Methylene Chloride       | 5.092          | 84   | 17069      | 8.820    | ug/l # | 86       |
| 21) trans-1,2-Dichloroethene | 5.587          | 96   | 13524      | 8.432    | ug/l   | 87       |
| 22) Diisopropyl ether        | 6.486          | 45   | 50824      | 8.226    | ug/l # | 93       |
| 23) Vinyl Acetate            | 6.428          | 43   | 229129     | 43.535   | ug/l # | 89       |
| 24) 1,1-Dichloroethane       | 6.375          | 63   | 27744      | 8.160    | ug/l   | 98       |
| 25) 2-Butanone               | 7.333          | 43   | 71620      | 43.961   | ug/l   | 92       |
| 26) 2,2-Dichloropropane      | 7.316          | 77   | 24897      | 8.562    | ug/l   | 94       |
| 27) cis-1,2-Dichloroethene   | 7.316          | 96   | 15320      | 7.720    | ug/l   | 82       |
| 28) Bromochloromethane       | 7.651          | 49   | 12774      | 8.433    | ug/l # | 74       |
| 29) Tetrahydrofuran          | 7.681          | 42   | 46135      | 44.256   | ug/l # | 87       |
| 30) Chloroform               | 7.810          | 83   | 28982      | 8.302    | ug/l   | 98       |
| 31) Cyclohexane              | 8.086          | 56   | 29610      | 9.351    | ug/l # | 83       |
| 32) 1,1,1-Trichloroethane    | 8.010          | 97   | 24774      | 7.820    | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 8.216          | 75   | 20645      | 7.589    | ug/l   | 93       |
| 37) Ethyl Acetate            | 7.410          | 43   | 27771      | 7.943    | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 8.192          | 117  | 21128      | 6.979    | ug/l # | 80       |
| 39) Methylcyclohexane        | 9.451          | 83   | 23834      | 7.831    | ug/l   | 92       |
| 40) Benzene                  | 8.451          | 78   | 61138      | 7.468    | ug/l   | 95       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN061322\  
 Data File : VN072797.D  
 Acq On : 13 Jun 2022 11:02  
 Operator : JC\MD  
 Sample : VSTDICC005  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC005

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 06/14/2022  
 Supervised By : Mahesh Dadoda 06/14/2022

Quant Time: Jun 13 13:33:58 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N061322W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jun 13 13:32:38 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.628  | 41   | 14346    | 8.106   | ug/l # | 85       |
| 42) 1,2-Dichloroethane        | 8.522  | 62   | 25932    | 7.709   | ug/l   | 93       |
| 43) Isopropyl Acetate         | 8.557  | 43   | 43594    | 8.062   | ug/l # | 92       |
| 44) Trichloroethene           | 9.210  | 130  | 13419    | 6.575   | ug/l   | 80       |
| 45) 1,2-Dichloropropane       | 9.480  | 63   | 16084    | 7.571   | ug/l   | 94       |
| 46) Dibromomethane            | 9.575  | 93   | 10940    | 7.374   | ug/l # | 79       |
| 47) Bromodichloromethane      | 9.757  | 83   | 22692    | 7.466   | ug/l   | 94       |
| 48) Methyl methacrylate       | 9.551  | 41   | 21602    | 8.701   | ug/l # | 83       |
| 49) 1,4-Dioxane               | 9.563  | 88   | 7308     | 167.319 | ug/l # | 85       |
| 51) 4-Methyl-2-Pentanone      | 10.327 | 43   | 143774   | 41.826  | ug/l   | 91       |
| 52) Toluene                   | 10.504 | 92   | 38824    | 7.661   | ug/l   | 95       |
| 53) t-1,3-Dichloropropene     | 10.716 | 75   | 21079    | 6.749   | ug/l   | 95       |
| 54) cis-1,3-Dichloropropene   | 10.186 | 75   | 24334    | 7.376   | ug/l # | 59       |
| 55) 1,1,2-Trichloroethane     | 10.898 | 97   | 14806    | 6.916   | ug/l   | 94       |
| 56) Ethyl methacrylate        | 10.757 | 69   | 24819    | 7.777   | ug/l # | 73       |
| 57) 1,3-Dichloropropane       | 11.039 | 76   | 27538    | 7.524   | ug/l   | 97       |
| 58) 2-Chloroethyl Vinyl ether | 10.039 | 63   | 50919    | 59.470  | ug/l   | 92       |
| 59) 2-Hexanone                | 11.080 | 43   | 105740   | 42.957  | ug/l   | 89       |
| 60) Dibromochloromethane      | 11.233 | 129  | 14675    | 6.472   | ug/l   | 96       |
| 61) 1,2-Dibromoethane         | 11.339 | 107  | 15732    | 7.383   | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.974 | 164  | 11969    | 5.850   | ug/l # | 77       |
| 65) Chlorobenzene             | 11.768 | 112  | 38656    | 6.442   | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 11.839 | 131  | 13729    | 5.695   | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.845 | 91   | 72205    | 6.888   | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.951 | 106  | 52641    | 13.456  | ug/l   | 88       |
| 69) o-Xylene                  | 12.274 | 106  | 25700    | 6.639   | ug/l   | 82       |
| 70) Styrene                   | 12.292 | 104  | 40575    | 6.810   | ug/l   | 95       |
| 71) Bromoform                 | 12.451 | 173  | 10385    | 5.894   | ug/l # | 87       |
| 73) Isopropylbenzene          | 12.574 | 105  | 67550    | 6.525   | ug/l   | 95       |
| 74) N-amyl acetate            | 12.386 | 43   | 30049    | 7.532   | ug/l # | 89       |
| 75) 1,1,2,2-Tetrachloroethane | 12.821 | 83   | 24084    | 6.274   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.880 | 75   | 20580m   | 6.070   | ug/l   |          |
| 77) Bromobenzene              | 12.857 | 156  | 13612    | 5.648   | ug/l   | 73       |
| 78) n-propylbenzene           | 12.915 | 91   | 74877    | 6.716   | ug/l   | 93       |
| 79) 2-Chlorotoluene           | 13.004 | 91   | 46921    | 6.437   | ug/l   | 95       |
| 80) 1,3,5-Trimethylbenzene    | 13.057 | 105  | 54403    | 6.462   | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.621 | 75   | 6130     | 5.886   | ug/l # | 80       |
| 82) 4-Chlorotoluene           | 13.104 | 91   | 44574    | 6.476   | ug/l   | 94       |
| 83) tert-Butylbenzene         | 13.315 | 119  | 49576    | 6.714   | ug/l   | 91       |
| 84) 1,2,4-Trimethylbenzene    | 13.363 | 105  | 52439    | 6.370   | ug/l   | 91       |
| 85) sec-Butylbenzene          | 13.498 | 105  | 63275    | 6.377   | ug/l   | 95       |
| 86) p-Isopropyltoluene        | 13.610 | 119  | 50677    | 6.582   | ug/l   | 95       |
| 87) 1,3-Dichlorobenzene       | 13.610 | 146  | 22890    | 5.495   | ug/l   | 95       |
| 88) 1,4-Dichlorobenzene       | 13.692 | 146  | 22829    | 5.488   | ug/l   | 90       |
| 89) n-Butylbenzene            | 13.939 | 91   | 39373    | 6.546   | ug/l   | 96       |
| 90) Hexachloroethane          | 14.210 | 117  | 10145    | 6.445   | ug/l   | 76       |
| 91) 1,2-Dichlorobenzene       | 13.980 | 146  | 22280    | 5.355   | ug/l   | 95       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.592 | 75   | 4773     | 6.928   | ug/l   | 70       |
| 93) 1,2,4-Trichlorobenzene    | 15.262 | 180  | 8959     | 5.575   | ug/l   | 89       |
| 94) Hexachlorobutadiene       | 15.362 | 225  | 4980     | 4.873   | ug/l   | 98       |
| 95) Naphthalene               | 15.498 | 128  | 32336    | 6.487   | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 15.698 | 180  | 9642     | 5.938   | ug/l   | 90       |

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Data File : VN072797.D  
Acq On : 13 Jun 2022 11:02  
Operator : JC\MD  
Sample : VSTDICC005  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC005

Manual Integrations  
APPROVED

Reviewed By :John Carlone 06/14/2022  
Supervised By :Mahesh Dadoda 06/14/2022

Quant Time: Jun 13 13:33:58 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N061322W.M  
Quant Title : SW846 8260  
QLast Update : Mon Jun 13 13:32:38 2022  
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

