

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN122721\  
 Data File : VN070310.D  
 Acq On : 27 Dec 2021 13:03  
 Operator : JC/MD  
 Sample : VSTDICC150  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC150

Quant Time: Dec 27 13:28:16 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N122721W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Dec 27 13:27:13 2021  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 12/28/2021  
 Supervised By : Semsettin Yesilyurt 12/30/2021

| Compound                   | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|--------|------|----------|-------|-------|----------|
| -----                      |        |      |          |       |       |          |
| Internal Standards         |        |      |          |       |       |          |
| 1) Pentafluorobenzene      | 8.083  | 168  | 1166298  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.965  | 114  | 1966551  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.744 | 117  | 1940618  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.675 | 152  | 792260   | 50.00 | ug/l  | 0.00     |

#### System Monitoring Compounds

|                           |        |       |          |          |            |      |
|---------------------------|--------|-------|----------|----------|------------|------|
| 33) 1,2-Dichloroethane-d4 | 8.437  | 65    | 2574448  | 146.78   | ug/l       | 0.00 |
| Spiked Amount             | 50.000 | Range | 61 - 141 | Recovery | = 293.56%# |      |
| 35) Dibromofluoromethane  | 8.021  | 113   | 1813713  | 150.17   | ug/l       | 0.00 |
| Spiked Amount             | 50.000 | Range | 69 - 133 | Recovery | = 300.34%# |      |
| 50) Toluene-d8            | 10.440 | 98    | 7453102  | 153.69   | ug/l       | 0.00 |
| Spiked Amount             | 50.000 | Range | 65 - 126 | Recovery | = 307.38%# |      |
| 62) 4-Bromofluorobenzene  | 12.731 | 95    | 2830585  | 160.20   | ug/l       | 0.00 |
| Spiked Amount             | 50.000 | Range | 58 - 135 | Recovery | = 320.40%# |      |

#### Target Compounds

|                              |       |     |           |        |        | Qvalue |
|------------------------------|-------|-----|-----------|--------|--------|--------|
| 2) Dichlorodifluoromethane   | 2.070 | 85  | 1909494   | 143.11 | ug/l   | 100    |
| 3) Chloromethane             | 2.301 | 50  | 2433550   | 143.43 | ug/l   | 99     |
| 4) Vinyl Chloride            | 2.445 | 62  | 2305931   | 148.23 | ug/l   | 99     |
| 5) Bromomethane              | 2.818 | 94  | 952755    | 112.21 | ug/l   | 99     |
| 6) Chloroethane              | 2.987 | 64  | 1329755   | 139.56 | ug/l   | 97     |
| 7) Trichlorofluoromethane    | 3.360 | 101 | 2752752   | 136.32 | ug/l   | 98     |
| 8) Diethyl Ether             | 3.819 | 74  | 1238287   | 155.90 | ug/l   | 84     |
| 9) 1,1,2-Trichlorotrifluo... | 4.199 | 101 | 1679674   | 145.81 | ug/l   | 96     |
| 10) Methyl Iodide            | 4.411 | 142 | 2527823   | 161.43 | ug/l   | 100    |
| 11) Tert butyl alcohol       | 5.393 | 59  | 2328213   | 722.98 | ug/l   | 99     |
| 12) 1,1-Dichloroethene       | 4.173 | 96  | 1694702   | 152.24 | ug/l   | 91     |
| 13) Acrolein                 | 4.036 | 56  | 1611666   | 584.99 | ug/l   | 100    |
| 14) Allyl chloride           | 4.832 | 41  | 3980733   | 158.65 | ug/l   | 89     |
| 15) Acrylonitrile            | 5.551 | 53  | 6599814   | 734.70 | ug/l   | 99     |
| 16) Acetone                  | 4.285 | 43  | 7502582   | 696.72 | ug/l   | 98     |
| 17) Carbon Disulfide         | 4.521 | 76  | 4865232   | 168.07 | ug/l   | 99     |
| 18) Methyl Acetate           | 4.851 | 43  | 4471418   | 139.01 | ug/l   | 92     |
| 19) Methyl tert-butyl Ether  | 5.616 | 73  | 6524366   | 151.74 | ug/l   | 95     |
| 20) Methylene Chloride       | 5.090 | 84  | 2034783   | 141.37 | ug/l # | 86     |
| 21) trans-1,2-Dichloroethene | 5.591 | 96  | 1803746   | 149.74 | ug/l   | 87     |
| 22) Diisopropyl ether        | 6.495 | 45  | 7570105   | 155.08 | ug/l   | 92     |
| 23) Vinyl Acetate            | 6.426 | 43  | 30258011m | 768.36 | ug/l   |        |
| 24) 1,1-Dichloroethane       | 6.383 | 63  | 3884394   | 153.40 | ug/l   | 98     |
| 25) 2-Butanone               | 7.335 | 43  | 10196893  | 708.74 | ug/l   | 92     |
| 26) 2,2-Dichloropropane      | 7.321 | 77  | 3188205   | 160.86 | ug/l   | 96     |
| 27) cis-1,2-Dichloroethene   | 7.324 | 96  | 2193302   | 151.19 | ug/l   | 87     |
| 28) Bromochloromethane       | 7.657 | 49  | 1911016   | 146.28 | ug/l # | 79     |
| 29) Tetrahydrofuran          | 7.683 | 42  | 6197720   | 713.54 | ug/l   | 89     |
| 30) Chloroform               | 7.815 | 83  | 3747427   | 147.53 | ug/l   | 99     |
| 31) Cyclohexane              | 8.091 | 56  | 3700269   | 147.59 | ug/l   | 87     |
| 32) 1,1,1-Trichloroethane    | 8.013 | 97  | 3291350   | 152.59 | ug/l   | 97     |
| 36) 1,1-Dichloropropene      | 8.220 | 75  | 2874456   | 154.35 | ug/l   | 96     |
| 37) Ethyl Acetate            | 7.412 | 43  | 3739115   | 138.01 | ug/l   | 97     |
| 38) Carbon Tetrachloride     | 8.204 | 117 | 2760152   | 151.85 | ug/l   | 98     |
| 39) Methylcyclohexane        | 9.459 | 83  | 3522179   | 158.49 | ug/l   | 90     |
| 40) Benzene                  | 8.458 | 78  | 8525451   | 149.55 | ug/l   | 99     |

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 Operator : JC/MD  
 Sample : VSTDICC150  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC150

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 12/28/2021  
 Supervised By : Semsettin Yesilyurt 12/30/2021

Quant Time: Dec 27 13:28:16 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N122721W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Dec 27 13:27:13 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.635  | 41   | 2022187  | 157.30  | ug/l # | 87       |
| 42) 1,2-Dichloroethane        | 8.528  | 62   | 3218038  | 141.68  | ug/l   | 97       |
| 43) Isopropyl Acetate         | 8.560  | 43   | 6109480  | 151.09  | ug/l   | 95       |
| 44) Trichloroethene           | 9.215  | 130  | 2053521  | 151.58  | ug/l   | 90       |
| 45) 1,2-Dichloropropane       | 9.488  | 63   | 2317967  | 151.00  | ug/l   | 99       |
| 46) Dibromomethane            | 9.577  | 93   | 1441813  | 144.89  | ug/l   | 94       |
| 47) Bromodichloromethane      | 9.762  | 83   | 3024106  | 159.31  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.558  | 41   | 2948101  | 153.96  | ug/l # | 84       |
| 49) 1,4-Dioxane               | 9.571  | 88   | 896508   | 2732.92 | ug/l # | 85       |
| 51) 4-Methyl-2-Pentanone      | 10.041 | 43   | 2527600  | 97.16   | ug/l # | 37       |
| 52) Toluene                   | 10.505 | 92   | 5381345  | 154.88  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.717 | 75   | 3592783  | 179.43  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.188 | 75   | 3727035  | 173.07  | ug/l   | 94       |
| 55) 1,1,2-Trichloroethane     | 10.899 | 97   | 2130139  | 152.64  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.762 | 69   | 4009212  | 170.23  | ug/l   | 90       |
| 57) 1,3-Dichloropropane       | 11.044 | 76   | 3791743  | 154.17  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 10.041 | 63   | 4980457  | 859.05  | ug/l   | 91       |
| 59) 2-Hexanone                | 11.087 | 43   | 13944915 | 708.91  | ug/l   | 96       |
| 60) Dibromochloromethane      | 11.237 | 129  | 2286444  | 172.23  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.344 | 107  | 2280715  | 158.55  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.977 | 164  | 1810612  | 138.50  | ug/l   | 95       |
| 65) Chlorobenzene             | 11.768 | 112  | 5833611  | 148.94  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.840 | 131  | 2100874  | 152.94  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.843 | 91   | 10746961 | 151.11  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.950 | 106  | 8019023  | 309.45  | ug/l   | 96       |
| 69) o-Xylene                  | 12.278 | 106  | 4065782  | 155.80  | ug/l   | 93       |
| 70) Styrene                   | 12.294 | 104  | 6713547  | 162.34  | ug/l   | 96       |
| 71) Bromoform                 | 12.457 | 173  | 1685938  | 165.22  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.578 | 105  | 10540742 | 149.92  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.388 | 43   | 4720689  | 154.03  | ug/l   | 94       |
| 75) 1,1,2,2-Tetrachloroethane | 12.827 | 83   | 3058494  | 126.76  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.878 | 75   | 3044541m | 136.68  | ug/l   |          |
| 77) Bromobenzene              | 12.860 | 156  | 2340112  | 141.90  | ug/l   | 78       |
| 78) n-propylbenzene           | 12.919 | 91   | 12087169 | 154.77  | ug/l   | 97       |
| 79) 2-Chlorotoluene           | 13.007 | 91   | 7257888  | 146.75  | ug/l   | 93       |
| 80) 1,3,5-Trimethylbenzene    | 13.058 | 105  | 8428695  | 148.99  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.626 | 75   | 1064096  | 171.05  | ug/l   | 94       |
| 82) 4-Chlorotoluene           | 13.104 | 91   | 7041535  | 151.48  | ug/l   | 92       |
| 83) tert-Butylbenzene         | 13.324 | 119  | 7390803  | 147.92  | ug/l   | 93       |
| 84) 1,2,4-Trimethylbenzene    | 13.366 | 105  | 8121514  | 150.69  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.501 | 105  | 10361692 | 152.90  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.613 | 119  | 8281911  | 156.06  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.613 | 146  | 3930809  | 145.41  | ug/l   | 96       |
| 88) 1,4-Dichlorobenzene       | 13.694 | 146  | 3854886  | 145.00  | ug/l   | 97       |
| 89) n-Butylbenzene            | 13.940 | 91   | 7305609  | 169.71  | ug/l   | 97       |
| 90) Hexachloroethane          | 14.209 | 117  | 1472488  | 158.63  | ug/l   | 90       |
| 91) 1,2-Dichlorobenzene       | 13.986 | 146  | 3764760  | 143.07  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.603 | 75   | 666186   | 154.44  | ug/l   | 81       |
| 93) 1,2,4-Trichlorobenzene    | 15.263 | 180  | 2083709  | 173.52  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.370 | 225  | 1001577  | 143.18  | ug/l   | 99       |
| 95) Naphthalene               | 15.504 | 128  | 6101495  | 177.17  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.700 | 180  | 1983771  | 168.13  | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN122721\  
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Sample : VSTDICC150  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC150

Manual Integrations  
APPROVED

Reviewed By :John Carlone 12/28/2021  
Supervised By :Semsettin Yesilyurt 12/30/2021

Quant Time: Dec 27 13:28:16 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N122721W.M  
Quant Title : SW846 8260  
QLast Update : Mon Dec 27 13:27:13 2021  
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

