

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN110921\  
 Data File : VN069417.D  
 Acq On : 9 Nov 2021 11:39  
 Operator : JC/MD  
 Sample : VSTDICCC050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 11/10/2021  
 Supervised By : Semsettin Yesilyurt 11/17/2021

Quant Time: Nov 09 13:46:19 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N110921W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 09 13:40:38 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 8.086          | 168  | 1087082             | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.968          | 114  | 1790265             | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.747         | 117  | 1737193             | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.675         | 152  | 775265              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.440          | 65   | 740513              | 60.751  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 61 - 141 |      | Recovery = 121.500% |         |        |          |
| 35) Dibromofluoromethane     | 8.021          | 113  | 522888              | 54.358  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 69 - 133 |      | Recovery = 108.720% |         |        |          |
| 50) Toluene-d8               | 10.441         | 98   | 2125107             | 56.144  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 65 - 126 |      | Recovery = 112.280% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.734         | 95   | 781040              | 58.794  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 135 |      | Recovery = 117.580% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 2.073          | 85   | 608256              | 62.487  | ug/l   | 100      |
| 3) Chloromethane             | 2.303          | 50   | 646998              | 62.244  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.446          | 62   | 681202              | 56.396  | ug/l   | 99       |
| 5) Bromomethane              | 2.845          | 94   | 409037              | 42.070  | ug/l   | 97       |
| 6) Chloroethane              | 3.014          | 64   | 447230              | 54.056  | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 3.371          | 101  | 1050288             | 48.813  | ug/l   | 97       |
| 8) Diethyl Ether             | 3.821          | 74   | 327542              | 60.236  | ug/l   | 85       |
| 9) 1,1,2-Trichlorotrifluo... | 4.202          | 101  | 489293              | 57.675  | ug/l   | 93       |
| 10) Methyl Iodide            | 4.414          | 142  | 604924              | 56.675  | ug/l   | 97       |
| 11) Tert butyl alcohol       | 5.385          | 59   | 696619              | 320.408 | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 4.175          | 96   | 443854              | 56.726  | ug/l   | 89       |
| 13) Acrolein                 | 4.041          | 56   | 96604               | 240.664 | ug/l   | 100      |
| 14) Allyl chloride           | 4.838          | 41   | 978061              | 67.586  | ug/l   | 97       |
| 15) Acrylonitrile            | 5.554          | 53   | 1838578             | 332.176 | ug/l   | 99       |
| 16) Acetone                  | 4.288          | 43   | 2139737             | 345.230 | ug/l   | 97       |
| 17) Carbon Disulfide         | 4.524          | 76   | 1046124             | 58.898  | ug/l   | 100      |
| 18) Methyl Acetate           | 4.857          | 43   | 1343335             | 64.975  | ug/l   | 92       |
| 19) Methyl tert-butyl Ether  | 5.618          | 73   | 1879050             | 60.785  | ug/l   | 98       |
| 20) Methylene Chloride       | 5.093          | 84   | 566985              | 54.196  | ug/l   | 88       |
| 21) trans-1,2-Dichloroethene | 5.594          | 96   | 487630              | 56.554  | ug/l   | 87       |
| 22) Diisopropyl ether        | 6.498          | 45   | 2124713             | 68.741  | ug/l   | 95       |
| 23) Vinyl Acetate            | 6.434          | 43   | 8463241             | 355.119 | ug/l   | 95       |
| 24) 1,1-Dichloroethane       | 6.385          | 63   | 1062178             | 62.466  | ug/l   | 98       |
| 25) 2-Butanone               | 7.337          | 43   | 2939769             | 357.817 | ug/l   | 93       |
| 26) 2,2-Dichloropropane      | 7.327          | 77   | 871338              | 61.111  | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 7.324          | 96   | 614366              | 57.369  | ug/l   | 88       |
| 28) Bromochloromethane       | 7.657          | 49   | 527569              | 58.833  | ug/l # | 80       |
| 29) Tetrahydrofuran          | 7.686          | 42   | 1850432             | 363.157 | ug/l   | 90       |
| 30) Chloroform               | 7.820          | 83   | 1101331             | 59.875  | ug/l   | 100      |
| 31) Cyclohexane              | 8.094          | 56   | 1013728             | 58.561  | ug/l   | 89       |
| 32) 1,1,1-Trichloroethane    | 8.016          | 97   | 947629              | 59.977  | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 8.223          | 75   | 793287              | 58.498  | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.415          | 43   | 1099259             | 67.071  | ug/l   | 95       |
| 38) Carbon Tetrachloride     | 8.206          | 117  | 774245              | 56.622  | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.462          | 83   | 1009495             | 59.178  | ug/l   | 93       |
| 40) Benzene                  | 8.459          | 78   | 2405349             | 57.635  | ug/l   | 98       |

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 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
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Reviewed By : John Carlone 11/10/2021  
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Quant Time: Nov 09 13:46:19 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N110921W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 09 13:40:38 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.638  | 41   | 522123   | 66.150   | ug/l   | 92       |
| 42) 1,2-Dichloroethane        | 8.531  | 62   | 935999   | 60.344   | ug/l   | 97       |
| 43) Isopropyl Acetate         | 8.563  | 43   | 1732935  | 67.910   | ug/l   | 95       |
| 44) Trichloroethene           | 9.218  | 130  | 576002   | 52.851   | ug/l   | 87       |
| 45) 1,2-Dichloropropane       | 9.491  | 63   | 651082   | 60.363   | ug/l   | 100      |
| 46) Dibromomethane            | 9.577  | 93   | 433850   | 57.680   | ug/l   | 91       |
| 47) Bromodichloromethane      | 9.762  | 83   | 848178   | 61.780   | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.561  | 41   | 850154   | 73.733   | ug/l   | 86       |
| 49) 1,4-Dioxane               | 9.572  | 88   | 293112   | 1170.226 | ug/l   | 91       |
| 51) 4-Methyl-2-Pentanone      | 10.331 | 43   | 5810803  | 350.785  | ug/l   | 96       |
| 52) Toluene                   | 10.505 | 92   | 1553115  | 58.117   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.719 | 75   | 912462   | 64.222   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 10.188 | 75   | 984465   | 63.189   | ug/l   | 90       |
| 55) 1,1,2-Trichloroethane     | 10.899 | 97   | 624751   | 57.791   | ug/l   | 99       |
| 56) Ethyl methacrylate        | 10.762 | 69   | 1063816  | 65.009   | ug/l   | 88       |
| 57) 1,3-Dichloropropane       | 11.044 | 76   | 1075759  | 59.401   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 10.041 | 63   | 1215055  | 337.148  | ug/l   | 93       |
| 59) 2-Hexanone                | 11.087 | 43   | 4359331  | 354.506  | ug/l   | 94       |
| 60) Dibromochloromethane      | 11.240 | 129  | 616927   | 60.560   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.347 | 107  | 648272   | 58.987   | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.977 | 164  | 535476   | 50.086   | ug/l   | 95       |
| 65) Chlorobenzene             | 11.771 | 112  | 1664180  | 53.766   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.843 | 131  | 603642   | 55.462   | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.846 | 91   | 3120857  | 57.472   | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.953 | 106  | 2334443  | 124.182  | ug/l   | 95       |
| 69) o-Xylene                  | 12.280 | 106  | 1164347  | 56.876   | ug/l   | 94       |
| 70) Styrene                   | 12.294 | 104  | 1902932  | 58.923   | ug/l   | 97       |
| 71) Bromoform                 | 12.460 | 173  | 449601   | 57.339   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.578 | 105  | 3096200  | 55.686   | ug/l   | 98       |
| 74) N-amyl acetate            | 12.388 | 43   | 1375557  | 69.421   | ug/l   | 94       |
| 75) 1,1,2,2-Tetrachloroethane | 12.827 | 83   | 1024016  | 57.050   | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.881 | 75   | 902076m  | 53.994   | ug/l   |          |
| 77) Bromobenzene              | 12.862 | 156  | 698617   | 50.860   | ug/l   | 81       |
| 78) n-propylbenzene           | 12.921 | 91   | 3555693  | 58.837   | ug/l   | 96       |
| 79) 2-Chlorotoluene           | 13.010 | 91   | 2128741  | 56.858   | ug/l   | 94       |
| 80) 1,3,5-Trimethylbenzene    | 13.061 | 105  | 2532396  | 57.065   | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.626 | 75   | 276000   | 65.114   | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 13.106 | 91   | 2051744  | 57.850   | ug/l   | 94       |
| 83) tert-Butylbenzene         | 13.324 | 119  | 2238707  | 55.010   | ug/l   | 94       |
| 84) 1,2,4-Trimethylbenzene    | 13.369 | 105  | 2497368  | 58.151   | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.503 | 105  | 3169836  | 58.353   | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.616 | 119  | 2550987  | 57.894   | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.616 | 146  | 1252539  | 53.343   | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 13.696 | 146  | 1215576  | 52.265   | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.943 | 91   | 2152942  | 62.439   | ug/l   | 97       |
| 90) Hexachloroethane          | 14.211 | 117  | 427094   | 60.190   | ug/l   | 86       |
| 91) 1,2-Dichlorobenzene       | 13.989 | 146  | 1200119  | 52.086   | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.606 | 75   | 184592   | 64.421   | ug/l   | 81       |
| 93) 1,2,4-Trichlorobenzene    | 15.265 | 180  | 578361   | 55.069   | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.370 | 225  | 322773   | 49.439   | ug/l   | 99       |
| 95) Naphthalene               | 15.507 | 128  | 1533003  | 53.910   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.700 | 180  | 551922   | 53.397   | ug/l   | 99       |

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ALS Vial : 5 Sample Multiplier: 1

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Quant Time: Nov 09 13:46:19 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N110921W.M  
Quant Title : SW846 8260  
QLast Update : Tue Nov 09 13:40:38 2021  
Response via : Initial Calibration

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

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

