

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080521\  
 Data File : VN068032.D  
 Acq On : 5 Aug 2021 21:49  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 8/6/2021 5:43:27 PM

Quant Time: Aug 06 01:27:28 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N072921W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jul 29 15:02:35 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|-------|----------|
| -----                        |                |      |                     |         |       |          |
| Internal Standards           |                |      |                     |         |       |          |
| 1) Pentafluorobenzene        | 8.088          | 168  | 383405              | 50.000  | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene      | 8.971          | 114  | 701576              | 50.000  | ug/l  | 0.00     |
| 63) Chlorobenzene-d5         | 11.749         | 117  | 692507              | 50.000  | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.678         | 152  | 341836              | 50.000  | ug/l  | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |       |          |
| 33) 1,2-Dichloroethane-d4    | 8.440          | 65   | 309441              | 57.011  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 61 - 141 |      | Recovery = 114.020% |         |       |          |
| 35) Dibromofluoromethane     | 8.024          | 113  | 241554              | 59.079  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 69 - 133 |      | Recovery = 118.160% |         |       |          |
| 50) Toluene-d8               | 10.443         | 98   | 998612              | 52.696  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 65 - 126 |      | Recovery = 105.400% |         |       |          |
| 62) 4-Bromofluorobenzene     | 12.734         | 95   | 360084              | 51.922  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 58 - 135 |      | Recovery = 103.840% |         |       |          |
| Target Compounds             |                |      |                     |         |       |          |
|                              |                |      |                     |         |       | Qvalue   |
| 2) Dichlorodifluoromethane   | 2.070          | 85   | 191844              | 48.833  | ug/l  | 99       |
| 3) Chloromethane             | 2.301          | 50   | 240191              | 49.219  | ug/l  | 97       |
| 4) Vinyl Chloride            | 2.443          | 62   | 373039              | 48.993  | ug/l  | 96       |
| 5) Bromomethane              | 2.832          | 94   | 303685              | 44.753  | ug/l  | 98       |
| 6) Chloroethane              | 3.003          | 64   | 297685              | 50.423  | ug/l  | 99       |
| 7) Trichlorofluoromethane    | 3.365          | 101  | 684227              | 49.592  | ug/l  | 99       |
| 8) Diethyl Ether             | 3.819          | 74   | 130186              | 49.657  | ug/l  | 92       |
| 9) 1,1,2-Trichlorotrifluo... | 4.202          | 101  | 199746              | 50.221  | ug/l  | 95       |
| 10) Methyl Iodide            | 4.414          | 142  | 255549              | 49.237  | ug/l  | 92       |
| 11) Tert butyl alcohol       | 5.393          | 59   | 200258              | 275.371 | ug/l  | 100      |
| 12) 1,1-Dichloroethene       | 4.173          | 96   | 189796              | 52.206  | ug/l  | 88       |
| 13) Acrolein                 | 4.039          | 56   | 143817              | 291.406 | ug/l  | 98       |
| 14) Allyl chloride           | 4.835          | 41   | 320669              | 51.938  | ug/l  | 97       |
| 15) Acrylonitrile            | 5.557          | 53   | 585803              | 287.402 | ug/l  | 99       |
| 16) Acetone                  | 4.288          | 43   | 461893              | 233.227 | ug/l  | 93       |
| 17) Carbon Disulfide         | 4.521          | 76   | 518701              | 49.195  | ug/l  | 99       |
| 18) Methyl Acetate           | 4.857          | 43   | 266703              | 56.024  | ug/l  | 94       |
| 19) Methyl tert-butyl Ether  | 5.618          | 73   | 764716              | 56.035  | ug/l  | 99       |
| 20) Methylene Chloride       | 5.093          | 84   | 247146              | 54.068  | ug/l  | 91       |
| 21) trans-1,2-Dichloroethene | 5.592          | 96   | 225320              | 53.287  | ug/l  | 90       |
| 22) Diisopropyl ether        | 6.498          | 45   | 770506              | 56.218  | ug/l  | 97       |
| 23) Vinyl Acetate            | 6.436          | 43   | 3311387             | 255.559 | ug/l  | 96       |
| 24) 1,1-Dichloroethane       | 6.388          | 63   | 423474              | 53.426  | ug/l  | 98       |
| 25) 2-Butanone               | 7.340          | 43   | 804457              | 279.986 | ug/l  | 92       |
| 26) 2,2-Dichloropropane      | 7.324          | 77   | 321721              | 46.408  | ug/l  | 94       |
| 27) cis-1,2-Dichloroethene   | 7.327          | 96   | 275872              | 54.881  | ug/l  | 83       |
| 28) Bromochloromethane       | 7.657          | 49   | 200939              | 53.152  | ug/l  | # 79     |
| 29) Tetrahydrofuran          | 7.686          | 42   | 534606              | 290.565 | ug/l  | 91       |
| 30) Chloroform               | 7.820          | 83   | 477344              | 54.376  | ug/l  | 100      |
| 31) Cyclohexane              | 8.094          | 56   | 385403              | 48.135  | ug/l  | 95       |
| 32) 1,1,1-Trichloroethane    | 8.016          | 97   | 424698              | 56.009  | ug/l  | 97       |
| 36) 1,1-Dichloropropene      | 8.220          | 75   | 344810              | 53.134  | ug/l  | 95       |
| 37) Ethyl Acetate            | 7.415          | 43   | 329215              | 53.904  | ug/l  | 97       |
| 38) Carbon Tetrachloride     | 8.206          | 117  | 366972              | 57.501  | ug/l  | 97       |
| 39) Methylcyclohexane        | 9.462          | 83   | 377173              | 53.780  | ug/l  | 92       |
| 40) Benzene                  | 8.459          | 78   | 1066273             | 55.500  | ug/l  | 100      |

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 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 8/6/2021 5:43:27 PM

Quant Time: Aug 06 01:27:28 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N072921W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jul 29 15:02:35 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.638  | 41   | 162741   | 55.935   | ug/l   | 91       |
| 42) 1,2-Dichloroethane        | 8.534  | 62   | 383717   | 54.075   | ug/l   | 96       |
| 43) Isopropyl Acetate         | 8.566  | 43   | 602091   | 59.160   | ug/l   | 97       |
| 44) Trichloroethene           | 9.218  | 130  | 262557   | 54.030   | ug/l   | 83       |
| 45) 1,2-Dichloropropane       | 9.491  | 63   | 269885   | 56.381   | ug/l   | 99       |
| 46) Dibromomethane            | 9.580  | 93   | 198193   | 57.268   | ug/l   | 94       |
| 47) Bromodichloromethane      | 9.765  | 83   | 386099   | 58.537   | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.564  | 41   | 256194   | 50.466   | ug/l   | 87       |
| 49) 1,4-Dioxane               | 9.572  | 88   | 93595    | 1156.174 | ug/l   | 87       |
| 51) 4-Methyl-2-Pentanone      | 10.336 | 43   | 1905566  | 256.576  | ug/l   | 95       |
| 52) Toluene                   | 10.508 | 92   | 734938   | 58.872   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.722 | 75   | 410834   | 49.069   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 10.191 | 75   | 423754   | 48.862   | ug/l   | 91       |
| 55) 1,1,2-Trichloroethane     | 10.902 | 97   | 282940   | 58.460   | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.765 | 69   | 437974   | 50.308   | ug/l   | 90       |
| 57) 1,3-Dichloropropane       | 11.047 | 76   | 468341   | 59.344   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 10.044 | 63   | 408417   | 241.659  | ug/l   | 91       |
| 59) 2-Hexanone                | 11.090 | 43   | 1360389  | 256.967  | ug/l   | 93       |
| 60) Dibromochloromethane      | 11.242 | 129  | 305648   | 50.529   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.350 | 107  | 296352   | 59.622   | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.980 | 164  | 217513   | 43.855   | ug/l   | 97       |
| 65) Chlorobenzene             | 11.773 | 112  | 771502   | 54.775   | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.846 | 131  | 295320   | 51.926   | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.849 | 91   | 1431528  | 57.074   | ug/l   | 96       |
| 68) m/p-Xylenes               | 11.956 | 106  | 1102915  | 100.626  | ug/l   | 87       |
| 69) o-Xylene                  | 12.283 | 106  | 545232   | 59.129   | ug/l   | 85       |
| 70) Styrene                   | 12.296 | 104  | 929007   | 51.028   | ug/l   | 92       |
| 71) Bromoform                 | 12.463 | 173  | 215956   | 48.886   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.583 | 105  | 1391130  | 49.880   | ug/l   | 96       |
| 74) N-amyl acetate            | 12.390 | 43   | 513873   | 53.009   | ug/l   | 92       |
| 75) 1,1,2,2-Tetrachloroethane | 12.830 | 83   | 430248   | 51.052   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.884 | 75   | 352484m  | 51.344   | ug/l   |          |
| 77) Bromobenzene              | 12.862 | 156  | 325445   | 50.822   | ug/l   | 74       |
| 78) n-propylbenzene           | 12.924 | 91   | 1604386  | 50.976   | ug/l   | 96       |
| 79) 2-Chlorotoluene           | 13.010 | 91   | 960189   | 50.058   | ug/l   | 89       |
| 80) 1,3,5-Trimethylbenzene    | 13.061 | 105  | 1183276  | 52.344   | ug/l   | 93       |
| 81) trans-1,4-Dichloro-2-b... | 12.629 | 75   | 118260   | 47.963   | ug/l   | 92       |
| 82) 4-Chlorotoluene           | 13.109 | 91   | 959872   | 49.842   | ug/l   | 89       |
| 83) tert-Butylbenzene         | 13.326 | 119  | 996234   | 53.001   | ug/l   | 87       |
| 84) 1,2,4-Trimethylbenzene    | 13.372 | 105  | 1183577  | 54.040   | ug/l   | 93       |
| 85) sec-Butylbenzene          | 13.503 | 105  | 1380013  | 52.488   | ug/l   | 96       |
| 86) p-Isopropyltoluene        | 13.619 | 119  | 1136928  | 54.352   | ug/l   | 93       |
| 87) 1,3-Dichlorobenzene       | 13.619 | 146  | 609136   | 51.789   | ug/l   | 95       |
| 88) 1,4-Dichlorobenzene       | 13.696 | 146  | 594657   | 51.197   | ug/l   | 95       |
| 89) n-Butylbenzene            | 13.946 | 91   | 888285   | 49.523   | ug/l   | 98       |
| 90) Hexachloroethane          | 14.214 | 117  | 204753   | 57.228   | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 13.991 | 146  | 566256   | 51.127   | ug/l   | 95       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.606 | 75   | 68171    | 50.664   | ug/l   | 64       |
| 93) 1,2,4-Trichlorobenzene    | 15.265 | 180  | 232688   | 47.037   | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.375 | 225  | 108915   | 47.325   | ug/l   | 97       |
| 95) Naphthalene               | 15.509 | 128  | 651459   | 45.980   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.703 | 180  | 218223   | 46.635   | ug/l   | 99       |

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Sample : VSTDCCC050  
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ALS Vial : 25 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
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Manual Integrations  
APPROVED

MMDadoda  
8/6/2021 5:43:27 PM

Quant Time: Aug 06 01:27:28 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N072921W.M  
Quant Title : SW846 8260  
QLast Update : Thu Jul 29 15:02:35 2021  
Response via : Initial Calibration

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

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

