

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN070921\  
 Data File : VN067690.D  
 Acq On : 9 Jul 2021 17:04  
 Operator : JC/MD  
 Sample : VN0709WBSD02  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0709WBSD02

Manual Integrations  
 APPROVED

MMDadoda  
 7/12/2021 5:44:50 PM

Quant Time: Jul 10 05:24:45 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N070721W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jul 07 16:18:53 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 8.088          | 168  | 367185              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.971          | 114  | 694938              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.746         | 117  | 663099              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.678         | 152  | 287497              | 50.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.437          | 65   | 289387              | 52.148  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 61 - 141 |      | Recovery = 104.300% |         |        |          |
| 35) Dibromofluoromethane     | 8.024          | 113  | 206865              | 49.269  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 69 - 133 |      | Recovery = 98.540%  |         |        |          |
| 50) Toluene-d8               | 10.443         | 98   | 883619              | 50.279  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 65 - 126 |      | Recovery = 100.560% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.733         | 95   | 298855              | 48.138  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 135 |      | Recovery = 96.280%  |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.073          | 85   | 62500               | 20.026  | ug/l   | 100      |
| 3) Chloromethane             | 2.303          | 50   | 89989               | 18.205  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.443          | 62   | 140496              | 18.832  | ug/l   | 99       |
| 5) Bromomethane              | 2.850          | 94   | 116263              | 19.971  | ug/l   | 99       |
| 6) Chloroethane              | 3.017          | 64   | 107573              | 19.033  | ug/l   | 95       |
| 7) Trichlorofluoromethane    | 3.371          | 101  | 256801              | 20.679  | ug/l   | 99       |
| 8) Diethyl Ether             | 3.813          | 74   | 55943               | 18.837  | ug/l   | 94       |
| 9) 1,1,2-Trichlorotrifluo... | 4.205          | 101  | 70333               | 20.668  | ug/l   | 97       |
| 10) Methyl Iodide            | 4.417          | 142  | 81433               | 20.088  | ug/l   | 93       |
| 11) Tert butyl alcohol       | 5.385          | 59   | 76153               | 95.498  | ug/l # | 88       |
| 12) 1,1-Dichloroethene       | 4.175          | 96   | 64562               | 19.774  | ug/l   | 90       |
| 13) Acrolein                 | 4.039          | 56   | 48674               | 123.101 | ug/l # | 61       |
| 14) Allyl chloride           | 4.832          | 41   | 110234              | 18.367  | ug/l   | 93       |
| 15) Acrylonitrile            | 5.559          | 53   | 200045              | 101.142 | ug/l   | 99       |
| 16) Acetone                  | 4.291          | 43   | 168347              | 96.411  | ug/l   | 91       |
| 17) Carbon Disulfide         | 4.521          | 76   | 167245              | 18.493  | ug/l   | 98       |
| 18) Methyl Acetate           | 4.859          | 43   | 94246               | 19.216  | ug/l   | 95       |
| 19) Methyl tert-butyl Ether  | 5.621          | 73   | 261593              | 19.335  | ug/l   | 99       |
| 20) Methylene Chloride       | 5.093          | 84   | 86277               | 20.759  | ug/l   | 89       |
| 21) trans-1,2-Dichloroethene | 5.597          | 96   | 75082               | 19.451  | ug/l   | 95       |
| 22) Diisopropyl ether        | 6.501          | 45   | 265826              | 19.519  | ug/l   | 97       |
| 23) Vinyl Acetate            | 6.436          | 43   | 1132097             | 97.231  | ug/l   | 96       |
| 24) 1,1-Dichloroethane       | 6.388          | 63   | 148282              | 19.531  | ug/l   | 99       |
| 25) 2-Butanone               | 7.340          | 43   | 281875              | 97.214  | ug/l   | 93       |
| 26) 2,2-Dichloropropane      | 7.327          | 77   | 115530              | 17.412  | ug/l   | 94       |
| 27) cis-1,2-Dichloroethene   | 7.327          | 96   | 91477               | 18.937  | ug/l   | 88       |
| 28) Bromochloromethane       | 7.659          | 49   | 70536               | 19.039  | ug/l   | 88       |
| 29) Tetrahydrofuran          | 7.691          | 42   | 189543              | 99.405  | ug/l   | 95       |
| 30) Chloroform               | 7.820          | 83   | 163267              | 19.145  | ug/l   | 99       |
| 31) Cyclohexane              | 8.094          | 56   | 138096              | 17.748  | ug/l   | 89       |
| 32) 1,1,1-Trichloroethane    | 8.016          | 97   | 144438              | 19.532  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 8.220          | 75   | 116124              | 17.989  | ug/l   | 96       |
| 37) Ethyl Acetate            | 7.418          | 43   | 118879              | 19.006  | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 8.206          | 117  | 117270              | 18.417  | ug/l   | 96       |
| 39) Methylcyclohexane        | 9.461          | 83   | 127282              | 18.011  | ug/l   | 91       |
| 40) Benzene                  | 8.461          | 78   | 361801              | 18.724  | ug/l   | 99       |

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 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
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Quant Time: Jul 10 05:24:45 2021  
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 Quant Title : SW846 8260  
 QLast Update : Wed Jul 07 16:18:53 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.643  | 41   | 61729    | 19.203  | ug/l   | 96       |
| 42) 1,2-Dichloroethane        | 8.533  | 62   | 137402   | 19.148  | ug/l   | 97       |
| 43) Isopropyl Acetate         | 8.566  | 43   | 202446   | 18.400  | ug/l   | 96       |
| 44) Trichloroethene           | 9.217  | 130  | 91189    | 18.595  | ug/l   | 91       |
| 45) 1,2-Dichloropropane       | 9.494  | 63   | 92389    | 18.885  | ug/l   | 98       |
| 46) Dibromomethane            | 9.579  | 93   | 66831    | 19.252  | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.765  | 83   | 127622   | 18.806  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.561  | 41   | 88822    | 18.253  | ug/l   | 89       |
| 49) 1,4-Dioxane               | 9.574  | 88   | 32695    | 358.989 | ug/l # | 85       |
| 51) 4-Methyl-2-Pentanone      | 10.333 | 43   | 656516   | 97.129  | ug/l   | 96       |
| 52) Toluene                   | 10.507 | 92   | 246159   | 19.448  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.722 | 75   | 129740   | 17.228  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 10.194 | 75   | 138396   | 18.338  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane     | 10.902 | 97   | 93821    | 19.342  | ug/l   | 94       |
| 56) Ethyl methacrylate        | 10.762 | 69   | 142313   | 19.043  | ug/l   | 94       |
| 57) 1,3-Dichloropropane       | 11.047 | 76   | 158733   | 19.084  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.043 | 63   | 136102   | 80.661  | ug/l   | 94       |
| 59) 2-Hexanone                | 11.089 | 43   | 457014   | 96.865  | ug/l   | 96       |
| 60) Dibromochloromethane      | 11.240 | 129  | 91684    | 17.031  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.350 | 107  | 94549    | 19.092  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.979 | 164  | 86104    | 18.395  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.773 | 112  | 255669   | 18.773  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 11.843 | 131  | 94013    | 19.625  | ug/l   | 100      |
| 67) Ethyl Benzene             | 11.848 | 91   | 464957   | 18.754  | ug/l   | 96       |
| 68) m/p-Xylenes               | 11.956 | 106  | 352912   | 37.635  | ug/l   | 88       |
| 69) o-Xylene                  | 12.283 | 106  | 172392   | 18.699  | ug/l   | 90       |
| 70) Styrene                   | 12.296 | 104  | 285538   | 19.361  | ug/l   | 94       |
| 71) Bromoform                 | 12.460 | 173  | 57920    | 15.940  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.581 | 105  | 447441   | 19.289  | ug/l   | 98       |
| 74) N-amyl acetate            | 12.390 | 43   | 161920   | 19.241  | ug/l   | 94       |
| 75) 1,1,2,2-Tetrachloroethane | 12.830 | 83   | 136719   | 20.308  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.884 | 75   | 116052m  | 19.766  | ug/l   |          |
| 77) Bromobenzene              | 12.862 | 156  | 97719    | 19.034  | ug/l   | 81       |
| 78) n-propylbenzene           | 12.924 | 91   | 512262   | 19.525  | ug/l   | 97       |
| 79) 2-Chlorotoluene           | 13.010 | 91   | 311312   | 19.641  | ug/l   | 92       |
| 80) 1,3,5-Trimethylbenzene    | 13.063 | 105  | 371915   | 19.788  | ug/l   | 94       |
| 81) trans-1,4-Dichloro-2-b... | 12.629 | 75   | 31485    | 17.290  | ug/l   | 96       |
| 82) 4-Chlorotoluene           | 13.106 | 91   | 303479   | 19.349  | ug/l   | 92       |
| 83) tert-Butylbenzene         | 13.326 | 119  | 312058   | 19.468  | ug/l   | 90       |
| 84) 1,2,4-Trimethylbenzene    | 13.372 | 105  | 364951   | 19.816  | ug/l   | 94       |
| 85) sec-Butylbenzene          | 13.506 | 105  | 433127   | 19.525  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.618 | 119  | 343256   | 19.175  | ug/l   | 95       |
| 87) 1,3-Dichlorobenzene       | 13.618 | 146  | 182361   | 19.147  | ug/l   | 95       |
| 88) 1,4-Dichlorobenzene       | 13.696 | 146  | 183508   | 18.819  | ug/l   | 97       |
| 89) n-Butylbenzene            | 13.946 | 91   | 288379   | 18.781  | ug/l   | 98       |
| 90) Hexachloroethane          | 14.214 | 117  | 56709    | 19.074  | ug/l   | 93       |
| 91) 1,2-Dichlorobenzene       | 13.991 | 146  | 180598   | 19.644  | ug/l   | 96       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.605 | 75   | 23200    | 19.842  | ug/l   | 78       |
| 93) 1,2,4-Trichlorobenzene    | 15.265 | 180  | 73563    | 17.213  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.370 | 225  | 36033    | 18.652  | ug/l   | 99       |
| 95) Naphthalene               | 15.509 | 128  | 224529   | 18.002  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.705 | 180  | 72560    | 17.606  | ug/l   | 96       |

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ALS Vial : 15 Sample Multiplier: 1

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

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

