

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN022024\  
 Data File : VN081090.D  
 Acq On : 20 Feb 2024 11:46  
 Operator : JC\MD  
 Sample : VN0220WBS01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0220WBS01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 02/21/2024  
 Supervised By : Mahesh Dadoda 02/21/2024

Quant Time: Feb 21 00:18:19 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021624W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 16 23:45:20 2024  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 8.224          | 168  | 384201     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.100          | 114  | 703506     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.865         | 117  | 602198     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.794         | 152  | 271820     | 50.000  | ug/l   | 0.00     |
|                              |                |      |            |         |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.577          | 65   | 213207     | 45.274  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 90.540% |        |          |
| 35) Dibromofluoromethane     | 8.165          | 113  | 184395     | 46.352  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 92.700% |        |          |
| 50) Toluene-d8               | 10.565         | 98   | 627509     | 44.412  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 88.820% |        |          |
| 62) 4-Bromofluorobenzene     | 12.847         | 95   | 232409     | 43.776  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 87.560% |        |          |
|                              |                |      |            |         |        |          |
| Target Compounds             |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.124          | 85   | 102523     | 20.634  | ug/l   | 94       |
| 3) Chloromethane             | 2.359          | 50   | 98408      | 17.383  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.518          | 62   | 106040     | 19.214  | ug/l   | 100      |
| 5) Bromomethane              | 2.965          | 94   | 72854      | 18.585  | ug/l   | 81       |
| 6) Chloroethane              | 3.124          | 64   | 66870      | 18.179  | ug/l   | 94       |
| 7) Trichlorofluoromethane    | 3.506          | 101  | 155464     | 19.282  | ug/l   | 99       |
| 8) Diethyl Ether             | 3.959          | 74   | 56972      | 19.327  | ug/l   | 83       |
| 9) 1,1,2-Trichlorotrifluo... | 4.377          | 101  | 89968      | 20.016  | ug/l   | 93       |
| 10) Methyl Iodide            | 4.589          | 142  | 100924     | 20.116  | ug/l   | 97       |
| 11) Tert butyl alcohol       | 5.524          | 59   | 70216      | 81.076  | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 4.348          | 96   | 85023      | 19.569  | ug/l   | 93       |
| 13) Acrolein                 | 4.183          | 56   | 84628      | 182.316 | ug/l   | 99       |
| 14) Allyl chloride           | 5.024          | 41   | 122942     | 19.071  | ug/l # | 89       |
| 15) Acrylonitrile            | 5.712          | 53   | 206750     | 91.408  | ug/l   | 99       |
| 16) Acetone                  | 4.424          | 43   | 141919     | 76.590  | ug/l   | 96       |
| 17) Carbon Disulfide         | 4.718          | 76   | 214337     | 17.686  | ug/l   | 96       |
| 18) Methyl Acetate           | 5.018          | 43   | 91674      | 20.281  | ug/l # | 90       |
| 19) Methyl tert-butyl Ether  | 5.800          | 73   | 292582     | 19.662  | ug/l   | 94       |
| 20) Methylene Chloride       | 5.277          | 84   | 93888      | 19.010  | ug/l # | 81       |
| 21) trans-1,2-Dichloroethene | 5.789          | 96   | 90802      | 18.732  | ug/l   | 94       |
| 22) Diisopropyl ether        | 6.671          | 45   | 295209     | 20.187  | ug/l # | 95       |
| 23) Vinyl Acetate            | 6.600          | 43   | 1151612    | 97.060  | ug/l # | 92       |
| 24) 1,1-Dichloroethane       | 6.571          | 63   | 169327     | 20.025  | ug/l   | 95       |
| 25) 2-Butanone               | 7.483          | 43   | 251650     | 84.064  | ug/l   | 96       |
| 26) 2,2-Dichloropropane      | 7.494          | 77   | 157427     | 19.870  | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.488          | 96   | 107490     | 19.085  | ug/l   | 89       |
| 28) Bromochloromethane       | 7.812          | 49   | 63130      | 18.009  | ug/l # | 69       |
| 29) Tetrahydrofuran          | 7.836          | 42   | 175123     | 87.635  | ug/l # | 87       |
| 30) Chloroform               | 7.965          | 83   | 177332     | 19.727  | ug/l   | 97       |
| 31) Cyclohexane              | 8.259          | 56   | 155379     | 19.109  | ug/l # | 91       |
| 32) 1,1,1-Trichloroethane    | 8.165          | 97   | 160481     | 19.603  | ug/l   | 90       |
| 36) 1,1-Dichloropropene      | 8.371          | 75   | 127480     | 18.705  | ug/l   | 94       |
| 37) Ethyl Acetate            | 7.559          | 43   | 113340     | 18.426  | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 8.359          | 117  | 142774     | 20.706  | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.606          | 83   | 160412     | 20.191  | ug/l # | 86       |
| 40) Benzene                  | 8.606          | 78   | 389550     | 19.747  | ug/l   | 95       |

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 ALS Vial : 6 Sample Multiplier: 1

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 Quant Title : SW846 8260  
 QLast Update : Fri Feb 16 23:45:20 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.777  | 41   | 64653    | 18.469  | ug/l   | 97       |
| 42) 1,2-Dichloroethane        | 8.671  | 62   | 132705   | 19.282  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.688  | 43   | 219046   | 20.362  | ug/l   | 98       |
| 44) Trichloroethene           | 9.353  | 130  | 99503    | 18.938  | ug/l   | 91       |
| 45) 1,2-Dichloropropane       | 9.624  | 63   | 97808    | 19.821  | ug/l   | 98       |
| 46) Dibromomethane            | 9.712  | 93   | 69367    | 19.293  | ug/l   | 91       |
| 47) Bromodichloromethane      | 9.888  | 83   | 135303   | 19.870  | ug/l # | 93       |
| 48) Methyl methacrylate       | 9.682  | 41   | 93675    | 18.714  | ug/l   | 92       |
| 49) 1,4-Dioxane               | 9.700  | 88   | 30504    | 303.344 | ug/l # | 74       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43   | 565448   | 91.374  | ug/l   | 94       |
| 52) Toluene                   | 10.629 | 92   | 239965   | 19.215  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.835 | 75   | 151768   | 20.056  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.312 | 75   | 161808   | 19.791  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane     | 11.018 | 97   | 90453    | 18.831  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.871 | 69   | 138643   | 18.886  | ug/l   | 87       |
| 57) 1,3-Dichloropropane       | 11.165 | 76   | 159154   | 19.163  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63   | 329635   | 89.493  | ug/l # | 87       |
| 59) 2-Hexanone                | 11.194 | 43   | 409851   | 83.539  | ug/l   | 96       |
| 60) Dibromochloromethane      | 11.359 | 129  | 96496    | 18.910  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.471 | 107  | 96919    | 19.188  | ug/l   | 99       |
| 64) Tetrachloroethene         | 11.106 | 164  | 79624    | 19.373  | ug/l   | 96       |
| 65) Chlorobenzene             | 11.894 | 112  | 249488   | 19.142  | ug/l   | 92       |
| 66) 1,1,1,2-Tetrachloroethane | 11.965 | 131  | 95591    | 20.420  | ug/l   | 95       |
| 67) Ethyl Benzene             | 11.965 | 91   | 450407   | 19.312  | ug/l   | 95       |
| 68) m/p-Xylenes               | 12.071 | 106  | 348075   | 38.937  | ug/l   | 95       |
| 69) o-Xylene                  | 12.400 | 106  | 174200   | 19.659  | ug/l   | 92       |
| 70) Styrene                   | 12.412 | 104  | 272368   | 19.397  | ug/l   | 97       |
| 71) Bromoform                 | 12.582 | 173  | 58601    | 19.731  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.694 | 105  | 443096   | 18.631  | ug/l   | 97       |
| 74) N-amyl acetate            | 12.494 | 43   | 178601   | 17.769  | ug/l   | 94       |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 124998   | 18.692  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.994 | 75   | 106016m  | 17.166  | ug/l   |          |
| 77) Bromobenzene              | 12.982 | 156  | 97810    | 18.445  | ug/l   | 74       |
| 78) n-propylbenzene           | 13.035 | 91   | 510448   | 18.644  | ug/l   | 95       |
| 79) 2-Chlorotoluene           | 13.123 | 91   | 304991   | 18.162  | ug/l   | 92       |
| 80) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 365240   | 18.941  | ug/l   | 94       |
| 81) trans-1,4-Dichloro-2-b... | 12.741 | 75   | 39889    | 16.624  | ug/l   | 90       |
| 82) 4-Chlorotoluene           | 13.223 | 91   | 300446   | 18.298  | ug/l   | 94       |
| 83) tert-Butylbenzene         | 13.441 | 119  | 313685   | 18.814  | ug/l   | 95       |
| 84) 1,2,4-Trimethylbenzene    | 13.482 | 105  | 366277   | 19.062  | ug/l   | 93       |
| 85) sec-Butylbenzene          | 13.618 | 105  | 444363   | 19.171  | ug/l   | 94       |
| 86) p-Isopropyltoluene        | 13.729 | 119  | 366337   | 19.027  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.735 | 146  | 183943   | 18.359  | ug/l   | 95       |
| 88) 1,4-Dichlorobenzene       | 13.812 | 146  | 182205   | 18.507  | ug/l   | 97       |
| 89) n-Butylbenzene            | 14.059 | 91   | 319699   | 19.060  | ug/l   | 97       |
| 90) Hexachloroethane          | 14.335 | 117  | 61681    | 19.382  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 14.106 | 146  | 177233   | 18.340  | ug/l   | 96       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.717 | 75   | 25901    | 18.629  | ug/l   | 80       |
| 93) 1,2,4-Trichlorobenzene    | 15.388 | 180  | 102384   | 18.991  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.506 | 225  | 39153    | 19.473  | ug/l   | 95       |
| 95) Naphthalene               | 15.641 | 128  | 365762   | 18.514  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180  | 100250   | 18.744  | ug/l   | 99       |

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ALS Vial : 6 Sample Multiplier: 1

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Reviewed By :John Carlone 02/21/2024  
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Quant Time: Feb 21 00:18:19 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021624W.M  
Quant Title : SW846 8260  
QLast Update : Fri Feb 16 23:45:20 2024  
Response via : Initial Calibration

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

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

