

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN022224\  
 Data File : VN081129.D  
 Acq On : 22 Feb 2024 12:49  
 Operator : JC\MD  
 Sample : VN0222WBS01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0222WBS01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 02/23/2024  
 Supervised By : Mahesh Dadoda 02/23/2024

Quant Time: Feb 23 04:21:55 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        | 8.230          | 168  | 307244              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.100          | 114  | 565479              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.865         | 117  | 511522              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.794         | 152  | 223958              | 50.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.577          | 65   | 208692              | 55.416  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 110.840% |         |        |          |
| 35) Dibromofluoromethane     | 8.165          | 113  | 174187              | 54.474  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 108.940% |         |        |          |
| 50) Toluene-d8               | 10.571         | 98   | 584950              | 51.505  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 103.020% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.847         | 95   | 225181              | 52.767  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 105.540% |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.124          | 85   | 87400               | 21.996  | ug/l   | 95       |
| 3) Chloromethane             | 2.359          | 50   | 83298               | 18.470  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.512          | 62   | 85662               | 19.409  | ug/l   | 97       |
| 5) Bromomethane              | 2.965          | 94   | 60478               | 19.293  | ug/l # | 77       |
| 6) Chloroethane              | 3.124          | 64   | 62142               | 21.270  | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.500          | 101  | 136080              | 21.105  | ug/l   | 94       |
| 8) Diethyl Ether             | 3.959          | 74   | 52544               | 22.290  | ug/l   | 85       |
| 9) 1,1,2-Trichlorotrifluo... | 4.377          | 101  | 77318               | 21.511  | ug/l   | 94       |
| 10) Methyl Iodide            | 4.583          | 142  | 82944               | 20.673  | ug/l   | 96       |
| 11) Tert butyl alcohol       | 5.512          | 59   | 83058               | 119.926 | ug/l   | 98       |
| 12) 1,1-Dichloroethene       | 4.342          | 96   | 70014               | 20.151  | ug/l   | 89       |
| 13) Acrolein                 | 4.177          | 56   | 37969               | 102.286 | ug/l   | 92       |
| 14) Allyl chloride           | 5.030          | 41   | 103808              | 20.136  | ug/l # | 91       |
| 15) Acrylonitrile            | 5.718          | 53   | 212749              | 117.620 | ug/l   | 98       |
| 16) Acetone                  | 4.430          | 43   | 142631              | 96.254  | ug/l   | 97       |
| 17) Carbon Disulfide         | 4.718          | 76   | 172004              | 17.748  | ug/l   | 98       |
| 18) Methyl Acetate           | 5.024          | 43   | 96463               | 26.685  | ug/l   | 92       |
| 19) Methyl tert-butyl Ether  | 5.794          | 73   | 266145              | 22.365  | ug/l   | 100      |
| 20) Methylene Chloride       | 5.277          | 84   | 88043               | 22.455  | ug/l   | 88       |
| 21) trans-1,2-Dichloroethene | 5.794          | 96   | 79209               | 20.433  | ug/l   | 87       |
| 22) Diisopropyl ether        | 6.665          | 45   | 265793              | 22.728  | ug/l # | 95       |
| 23) Vinyl Acetate            | 6.600          | 43   | 1064396             | 112.179 | ug/l # | 92       |
| 24) 1,1-Dichloroethane       | 6.565          | 63   | 151084              | 22.343  | ug/l   | 95       |
| 25) 2-Butanone               | 7.483          | 43   | 265978              | 111.106 | ug/l   | 95       |
| 26) 2,2-Dichloropropane      | 7.494          | 77   | 130368              | 20.576  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.488          | 96   | 93019               | 20.653  | ug/l   | 88       |
| 28) Bromochloromethane       | 7.818          | 49   | 64285               | 22.932  | ug/l # | 69       |
| 29) Tetrahydrofuran          | 7.841          | 42   | 183506              | 114.831 | ug/l # | 87       |
| 30) Chloroform               | 7.965          | 83   | 161895              | 22.521  | ug/l   | 99       |
| 31) Cyclohexane              | 8.259          | 56   | 133657              | 20.554  | ug/l # | 85       |
| 32) 1,1,1-Trichloroethane    | 8.171          | 97   | 140841              | 21.513  | ug/l   | 92       |
| 36) 1,1-Dichloropropene      | 8.371          | 75   | 115693              | 21.119  | ug/l   | 96       |
| 37) Ethyl Acetate            | 7.559          | 43   | 116302              | 23.523  | ug/l   | 95       |
| 38) Carbon Tetrachloride     | 8.359          | 117  | 118044              | 21.298  | ug/l   | 96       |
| 39) Methylcyclohexane        | 9.600          | 83   | 132618              | 20.767  | ug/l   | 89       |
| 40) Benzene                  | 8.606          | 78   | 341380              | 21.529  | ug/l   | 99       |

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 Sample : VN0222WBS01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0222WBS01

Manual Integrations  
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Reviewed By : John Carlone 02/23/2024  
 Supervised By : Mahesh Dadoda 02/23/2024

Quant Time: Feb 23 04:21:55 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) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.783  | 41   | 61921    | 22.006  | ug/l   | 93       |
| 42) 1,2-Dichloroethane        | 8.671  | 62   | 124075   | 22.428  | ug/l   | 96       |
| 43) Isopropyl Acetate         | 8.688  | 43   | 207311   | 23.975  | ug/l   | 97       |
| 44) Trichloroethene           | 9.353  | 130  | 87229    | 20.654  | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 9.624  | 63   | 87386    | 22.031  | ug/l   | 100      |
| 46) Dibromomethane            | 9.712  | 93   | 63795    | 22.074  | ug/l   | 92       |
| 47) Bromodichloromethane      | 9.888  | 83   | 122480   | 22.377  | ug/l # | 98       |
| 48) Methyl methacrylate       | 9.682  | 41   | 89463    | 22.235  | ug/l   | 89       |
| 49) 1,4-Dioxane               | 9.694  | 88   | 37631    | 487.799 | ug/l # | 86       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43   | 593452   | 119.307 | ug/l   | 95       |
| 52) Toluene                   | 10.635 | 92   | 216703   | 21.587  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.835 | 75   | 133047   | 21.874  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 10.312 | 75   | 143488   | 21.834  | ug/l   | 92       |
| 55) 1,1,2-Trichloroethane     | 11.018 | 97   | 90302    | 23.389  | ug/l   | 92       |
| 56) Ethyl methacrylate        | 10.876 | 69   | 131572   | 22.297  | ug/l   | 89       |
| 57) 1,3-Dichloropropane       | 11.165 | 76   | 154300   | 23.113  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.165 | 63   | 277940   | 93.877  | ug/l # | 87       |
| 59) 2-Hexanone                | 11.194 | 43   | 430294   | 109.114 | ug/l   | 93       |
| 60) Dibromochloromethane      | 11.359 | 129  | 87281    | 21.280  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.471 | 107  | 91109    | 22.440  | ug/l   | 94       |
| 64) Tetrachloroethene         | 11.106 | 164  | 75535    | 21.636  | ug/l   | 89       |
| 65) Chlorobenzene             | 11.894 | 112  | 232311   | 20.984  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.965 | 131  | 86644    | 21.790  | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.965 | 91   | 417406   | 21.070  | ug/l   | 99       |
| 68) m/p-Xylenes               | 12.076 | 106  | 311694   | 41.048  | ug/l   | 96       |
| 69) o-Xylene                  | 12.400 | 106  | 155671   | 20.682  | ug/l   | 95       |
| 70) Styrene                   | 12.412 | 104  | 247457   | 20.747  | ug/l   | 97       |
| 71) Bromoform                 | 12.576 | 173  | 56275    | 22.307  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.700 | 105  | 404113   | 20.623  | ug/l   | 97       |
| 74) N-amyl acetate            | 12.494 | 43   | 171435   | 20.701  | ug/l   | 93       |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 123035   | 22.330  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.994 | 75   | 108602m  | 21.343  | ug/l   |          |
| 77) Bromobenzene              | 12.982 | 156  | 89099    | 20.393  | ug/l   | 79       |
| 78) n-propylbenzene           | 13.035 | 91   | 463330   | 20.540  | ug/l   | 95       |
| 79) 2-Chlorotoluene           | 13.129 | 91   | 282965   | 20.451  | ug/l   | 94       |
| 80) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 333786   | 21.009  | ug/l   | 95       |
| 81) trans-1,4-Dichloro-2-b... | 12.741 | 75   | 37975m   | 19.209  | ug/l   |          |
| 82) 4-Chlorotoluene           | 13.223 | 91   | 272830   | 20.167  | ug/l   | 93       |
| 83) tert-Butylbenzene         | 13.441 | 119  | 299123   | 21.774  | ug/l   | 93       |
| 84) 1,2,4-Trimethylbenzene    | 13.482 | 105  | 332272   | 20.988  | ug/l   | 96       |
| 85) sec-Butylbenzene          | 13.617 | 105  | 407906   | 21.359  | ug/l   | 94       |
| 86) p-Isopropyltoluene        | 13.729 | 119  | 324727   | 20.471  | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene       | 13.735 | 146  | 163084   | 19.755  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 13.812 | 146  | 165562   | 20.410  | ug/l   | 98       |
| 89) n-Butylbenzene            | 14.059 | 91   | 284389   | 20.578  | ug/l   | 96       |
| 90) Hexachloroethane          | 14.335 | 117  | 53703    | 20.481  | ug/l   | 94       |
| 91) 1,2-Dichlorobenzene       | 14.106 | 146  | 163130   | 20.489  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.717 | 75   | 25019    | 21.840  | ug/l   | 82       |
| 93) 1,2,4-Trichlorobenzene    | 15.400 | 180  | 89265    | 20.096  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.506 | 225  | 31659    | 19.111  | ug/l   | 97       |
| 95) Naphthalene               | 15.641 | 128  | 339487   | 20.856  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180  | 92338    | 20.955  | ug/l   | 98       |

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Sample : VN0222WBS01  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0222WBS01

Manual Integrations  
APPROVED

Reviewed By :John Carlone 02/23/2024  
Supervised By :Mahesh Dadoda 02/23/2024

Quant Time: Feb 23 04:21:55 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

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