

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN112723\  
 Data File : VN080273.D  
 Acq On : 27 Nov 2023 14:15  
 Operator : JC\MD  
 Sample : VN1127WBS01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1127WBS01

Quant Time: Nov 28 02:08:00 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N111623W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 17 01:19:32 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 11/28/2023  
 Supervised By : Mahesh Dadoda 11/28/2023

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 8.224          | 168  | 238303     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.106          | 114  | 368147     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.870         | 117  | 328212     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.794         | 152  | 158253     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.582          | 65   | 190220     | 48.343   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 96.680%  |        |          |
| 35) Dibromofluoromethane     | 8.171          | 113  | 134152     | 49.385   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 98.780%  |        |          |
| 50) Toluene-d8               | 10.570         | 98   | 502643     | 51.331   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 102.660% |        |          |
| 62) 4-Bromofluorobenzene     | 12.853         | 95   | 181131     | 48.972   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 97.940%  |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.124          | 85   | 64114      | 18.062   | ug/l   | 98       |
| 3) Chloromethane             | 2.365          | 50   | 43207      | 16.190   | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.512          | 62   | 51046      | 18.074   | ug/l   | 94       |
| 5) Bromomethane              | 2.959          | 94   | 34162      | 17.818   | ug/l   | 93       |
| 6) Chloroethane              | 3.124          | 64   | 33080      | 17.833   | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.500          | 101  | 110200     | 18.705   | ug/l   | 93       |
| 8) Diethyl Ether             | 3.965          | 74   | 30573      | 17.843   | ug/l   | 90       |
| 9) 1,1,2-Trichlorotrifluo... | 4.377          | 101  | 50310      | 18.683   | ug/l   | 94       |
| 10) Methyl Iodide            | 4.589          | 142  | 50408      | 17.321   | ug/l   | 91       |
| 11) Tert butyl alcohol       | 5.518          | 59   | 37975      | 87.763   | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 4.341          | 96   | 44630      | 17.719   | ug/l   | 84       |
| 13) Acrolein                 | 4.177          | 56   | 29685      | 77.520   | ug/l   | 100      |
| 14) Allyl chloride           | 5.024          | 41   | 50722      | 16.006   | ug/l   | 91       |
| 15) Acrylonitrile            | 5.724          | 53   | 104260     | 89.755   | ug/l   | 99       |
| 16) Acetone                  | 4.424          | 43   | 95928      | 72.585   | ug/l   | 94       |
| 17) Carbon Disulfide         | 4.718          | 76   | 114772     | 15.261   | ug/l   | 98       |
| 18) Methyl Acetate           | 5.030          | 43   | 74876      | 17.633   | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.788          | 73   | 162410     | 18.259   | ug/l   | 98       |
| 20) Methylene Chloride       | 5.277          | 84   | 53393      | 19.292   | ug/l   | 97       |
| 21) trans-1,2-Dichloroethene | 5.788          | 96   | 49008      | 17.712   | ug/l   | 93       |
| 22) Diisopropyl ether        | 6.677          | 45   | 129530     | 18.475   | ug/l   | 93       |
| 23) Vinyl Acetate            | 6.606          | 43   | 418842m    | 99.371   | ug/l   |          |
| 24) 1,1-Dichloroethane       | 6.577          | 63   | 92289      | 18.073   | ug/l   | 98       |
| 25) 2-Butanone               | 7.488          | 43   | 123039     | 78.359   | ug/l   | 90       |
| 26) 2,2-Dichloropropane      | 7.488          | 77   | 91972      | 18.154   | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.488          | 96   | 57780      | 18.418   | ug/l   | 90       |
| 28) Bromochloromethane       | 7.818          | 49   | 33695      | 16.785   | ug/l   | 97       |
| 29) Tetrahydrofuran          | 7.841          | 42   | 74923      | 88.876   | ug/l   | 93       |
| 30) Chloroform               | 7.971          | 83   | 108334     | 18.981   | ug/l   | 96       |
| 31) Cyclohexane              | 8.265          | 56   | 72811      | 17.015   | ug/l   | 84       |
| 32) 1,1,1-Trichloroethane    | 8.171          | 97   | 106374     | 19.111   | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 8.377          | 75   | 74171      | 18.859   | ug/l   | 96       |
| 37) Ethyl Acetate            | 7.559          | 43   | 46377      | 17.000   | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 8.365          | 117  | 97501      | 19.536   | ug/l   | 100      |
| 39) Methylcyclohexane        | 9.600          | 83   | 67591      | 17.824   | ug/l   | 95       |
| 40) Benzene                  | 8.606          | 78   | 213456     | 19.097   | ug/l   | 98       |

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 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
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 ClientSampleId :  
 VN1127WBS01

Manual Integrations  
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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N111623W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 17 01:19:32 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.782  | 41   | 26971    | 18.003  | ug/l   | 95       |
| 42) 1,2-Dichloroethane        | 8.671  | 62   | 92589    | 20.247  | ug/l   | 94       |
| 43) Isopropyl Acetate         | 8.688  | 43   | 86173    | 16.233  | ug/l   | 98       |
| 44) Trichloroethene           | 9.353  | 130  | 57478    | 19.603  | ug/l   | 97       |
| 45) 1,2-Dichloropropane       | 9.623  | 63   | 49098    | 18.901  | ug/l   | 90       |
| 46) Dibromomethane            | 9.712  | 93   | 38677    | 19.670  | ug/l   | 92       |
| 47) Bromodichloromethane      | 9.894  | 83   | 85948    | 19.871  | ug/l   | 100      |
| 48) Methyl methacrylate       | 9.682  | 41   | 50657    | 18.517  | ug/l   | 89       |
| 49) 1,4-Dioxane               | 9.694  | 88   | 16462    | 361.708 | ug/l # | 76       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43   | 254294   | 92.525  | ug/l   | 97       |
| 52) Toluene                   | 10.629 | 92   | 134602   | 19.242  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.841 | 75   | 85613    | 19.265  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.318 | 75   | 88570    | 19.508  | ug/l   | 94       |
| 55) 1,1,2-Trichloroethane     | 11.018 | 97   | 49831    | 18.664  | ug/l   | 95       |
| 56) Ethyl methacrylate        | 10.876 | 69   | 52298    | 19.174  | ug/l   | 89       |
| 57) 1,3-Dichloropropane       | 11.165 | 76   | 90631    | 19.443  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.165 | 63   | 141280   | 91.944  | ug/l   | 98       |
| 59) 2-Hexanone                | 11.200 | 43   | 188875   | 85.523  | ug/l   | 95       |
| 60) Dibromochloromethane      | 11.359 | 129  | 63829    | 19.969  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.470 | 107  | 51517    | 18.914  | ug/l   | 98       |
| 64) Tetrachloroethene         | 11.106 | 164  | 58062    | 23.180  | ug/l   | 97       |
| 65) Chlorobenzene             | 11.894 | 112  | 144634   | 19.448  | ug/l   | 93       |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131  | 59634    | 20.663  | ug/l   | 94       |
| 67) Ethyl Benzene             | 11.964 | 91   | 254079   | 19.199  | ug/l   | 99       |
| 68) m/p-Xylenes               | 12.076 | 106  | 192675   | 39.931  | ug/l   | 91       |
| 69) o-Xylene                  | 12.400 | 106  | 91044    | 20.021  | ug/l   | 87       |
| 70) Styrene                   | 12.412 | 104  | 134258   | 19.837  | ug/l   | 91       |
| 71) Bromoform                 | 12.582 | 173  | 41340    | 19.315  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.700 | 105  | 240604   | 19.565  | ug/l   | 98       |
| 74) N-amyl acetate            | 12.494 | 43   | 64232    | 16.749  | ug/l   | 95       |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 65709    | 17.853  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.994 | 75   | 57552m   | 14.843  | ug/l   |          |
| 77) Bromobenzene              | 12.982 | 156  | 59551    | 19.207  | ug/l   | 99       |
| 78) n-propylbenzene           | 13.041 | 91   | 265766   | 19.326  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 13.129 | 91   | 174441   | 19.531  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 209702   | 19.589  | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.741 | 75   | 20134    | 17.544  | ug/l # | 81       |
| 82) 4-Chlorotoluene           | 13.223 | 91   | 177740   | 19.426  | ug/l   | 97       |
| 83) tert-Butylbenzene         | 13.441 | 119  | 164482   | 19.160  | ug/l   | 93       |
| 84) 1,2,4-Trimethylbenzene    | 13.488 | 105  | 212574   | 20.167  | ug/l   | 95       |
| 85) sec-Butylbenzene          | 13.617 | 105  | 212438   | 19.562  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.735 | 119  | 194466   | 20.046  | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene       | 13.735 | 146  | 106830   | 19.125  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.811 | 146  | 105164   | 18.734  | ug/l   | 97       |
| 89) n-Butylbenzene            | 14.058 | 91   | 146416   | 18.032  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.335 | 117  | 34996    | 18.504  | ug/l   | 71       |
| 91) 1,2-Dichlorobenzene       | 14.106 | 146  | 101716   | 19.029  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.723 | 75   | 14299    | 16.726  | ug/l   | 94       |
| 93) 1,2,4-Trichlorobenzene    | 15.394 | 180  | 51073    | 16.428  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.505 | 225  | 30590    | 17.098  | ug/l   | 98       |
| 95) Naphthalene               | 15.647 | 128  | 128975   | 14.306  | ug/l   | 96       |
| 96) 1,2,3-Trichlorobenzene    | 15.847 | 180  | 49436    | 16.965  | ug/l   | 97       |

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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

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