

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN053123\  
 Data File : VN077995.D  
 Acq On : 31 May 2023 16:07  
 Operator : JC\MD  
 Sample : 02910-05MS  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW33S-20230523MS

Quant Time: Jun 01 01:54:11 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051523W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 16 04:07:42 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 06/01/2023  
 Supervised By : Mahesh Dadoda 06/01/2023

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 8.229          | 168  | 364757     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.112          | 114  | 641267     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.870         | 117  | 566564     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.800         | 152  | 242796     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.588          | 65   | 270786     | 49.615   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 99.240%  |        |          |
| 35) Dibromofluoromethane     | 8.171          | 113  | 236510     | 56.559   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 113.120% |        |          |
| 50) Toluene-d8               | 10.576         | 98   | 859190     | 53.381   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 106.760% |        |          |
| 62) 4-Bromofluorobenzene     | 12.859         | 95   | 292343     | 51.427   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 102.860% |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.136          | 85   | 180818     | 43.558   | ug/l   | 93       |
| 3) Chloromethane             | 2.371          | 50   | 203965     | 46.206   | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.518          | 62   | 261890     | 50.039   | ug/l   | 100      |
| 5) Bromomethane              | 2.953          | 94   | 204060     | 52.718   | ug/l   | 99       |
| 6) Chloroethane              | 3.124          | 64   | 193275     | 51.242   | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.500          | 101  | 377400     | 51.742   | ug/l   | 100      |
| 8) Diethyl Ether             | 3.965          | 74   | 134082     | 50.354   | ug/l   | 80       |
| 9) 1,1,2-Trichlorotrifluo... | 4.383          | 101  | 208829     | 51.735   | ug/l   | 98       |
| 10) Methyl Iodide            | 4.594          | 142  | 291286     | 60.510   | ug/l   | 98       |
| 11) Tert butyl alcohol       | 5.530          | 59   | 176730     | 234.634  | ug/l # | 88       |
| 12) 1,1-Dichloroethene       | 4.347          | 96   | 202506     | 52.785   | ug/l   | 90       |
| 13) Acrolein                 | 4.189          | 56   | 83164      | 168.061  | ug/l   | 92       |
| 14) Allyl chloride           | 5.036          | 41   | 294682     | 52.287   | ug/l   | 97       |
| 15) Acrylonitrile            | 5.730          | 53   | 493009     | 244.997  | ug/l   | 98       |
| 16) Acetone                  | 4.441          | 43   | 374328     | 218.005  | ug/l   | 95       |
| 17) Carbon Disulfide         | 4.718          | 76   | 475858     | 46.034   | ug/l   | 99       |
| 18) Methyl Acetate           | 5.036          | 43   | 347143     | 48.192   | ug/l   | 91       |
| 19) Methyl tert-butyl Ether  | 5.806          | 73   | 717889     | 51.697   | ug/l   | 98       |
| 20) Methylene Chloride       | 5.288          | 84   | 242663     | 54.474   | ug/l   | 94       |
| 21) trans-1,2-Dichloroethene | 5.800          | 96   | 223989     | 51.976   | ug/l   | 90       |
| 22) Diisopropyl ether        | 6.682          | 45   | 681373     | 51.579   | ug/l   | 95       |
| 23) Vinyl Acetate            | 6.612          | 43   | 1980471    | 241.971  | ug/l # | 90       |
| 24) 1,1-Dichloroethane       | 6.571          | 63   | 436049     | 53.879   | ug/l   | 97       |
| 25) 2-Butanone               | 7.488          | 43   | 622280     | 231.675  | ug/l   | 89       |
| 26) 2,2-Dichloropropane      | 7.500          | 77   | 361141     | 52.524   | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.494          | 96   | 276019     | 53.417   | ug/l   | 92       |
| 28) Bromochloromethane       | 7.824          | 49   | 173774     | 49.648   | ug/l   | 92       |
| 29) Tetrahydrofuran          | 7.847          | 42   | 408564     | 232.300  | ug/l   | 85       |
| 30) Chloroform               | 7.977          | 83   | 472388     | 53.061   | ug/l   | 93       |
| 31) Cyclohexane              | 8.265          | 56   | 346820     | 46.755   | ug/l   | 97       |
| 32) 1,1,1-Trichloroethane    | 8.177          | 97   | 413725     | 54.660   | ug/l   | 96       |
| 36) 1,1-Dichloropropene      | 8.376          | 75   | 339994     | 55.588   | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.571          | 43   | 258449     | 47.409   | ug/l   | 94       |
| 38) Carbon Tetrachloride     | 8.371          | 117  | 364470     | 59.012   | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.606          | 83   | 378150     | 50.502   | ug/l   | 93       |
| 40) Benzene                  | 8.612          | 78   | 1018494    | 56.430   | ug/l   | 99       |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW33S-20230523MS

Quant Time: Jun 01 01:54:11 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051523W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 16 04:07:42 2023  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :John Carlone 06/01/2023  
 Supervised By :Mahesh Dadoda 06/01/2023

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.788  | 41   | 139426   | 48.024   | ug/l   | 93       |
| 42) 1,2-Dichloroethane        | 8.676  | 62   | 352804   | 53.811   | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.694  | 43   | 459746   | 51.631   | ug/l   | 95       |
| 44) Trichloroethene           | 9.359  | 130  | 265942   | 58.191   | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.629  | 63   | 265220   | 57.609   | ug/l   | 96       |
| 46) Dibromomethane            | 9.718  | 93   | 187232   | 56.835   | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.894  | 83   | 368829   | 58.480   | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.688  | 41   | 221636   | 52.498   | ug/l   | 87       |
| 49) 1,4-Dioxane               | 9.700  | 88   | 91246    | 1144.323 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone      | 10.453 | 43   | 1384530  | 261.582  | ug/l   | 93       |
| 52) Toluene                   | 10.641 | 92   | 650175   | 57.863   | ug/l   | 96       |
| 53) t-1,3-Dichloropropene     | 10.847 | 75   | 382240   | 57.231   | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 10.318 | 75   | 415176   | 56.409   | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane     | 11.023 | 97   | 258378   | 57.913   | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.882 | 69   | 377486   | 55.959   | ug/l   | 93       |
| 57) 1,3-Dichloropropane       | 11.170 | 76   | 427234   | 55.859   | ug/l   | 99       |
| 59) 2-Hexanone                | 11.206 | 43   | 967345   | 247.089  | ug/l   | 94       |
| 60) Dibromochloromethane      | 11.365 | 129  | 281330   | 61.081   | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.476 | 107  | 261707   | 58.799   | ug/l   | 97       |
| 64) Tetrachloroethene         | 11.112 | 164  | 249851   | 63.060   | ug/l   | 99       |
| 65) Chlorobenzene             | 11.900 | 112  | 694209   | 56.520   | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.970 | 131  | 263312   | 61.958   | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.970 | 91   | 1256050  | 57.065   | ug/l   | 99       |
| 68) m/p-Xylenes               | 12.076 | 106  | 962959   | 115.462  | ug/l   | 98       |
| 69) o-Xylene                  | 12.406 | 106  | 480645   | 58.601   | ug/l   | 99       |
| 70) Styrene                   | 12.417 | 104  | 761649   | 58.456   | ug/l   | 99       |
| 71) Bromoform                 | 12.582 | 173  | 177542   | 62.799   | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.706 | 105  | 1222285  | 58.401   | ug/l   | 99       |
| 74) N-amyl acetate            | 12.500 | 43   | 376680   | 48.692   | ug/l   | 92       |
| 75) 1,1,2,2-Tetrachloroethane | 12.947 | 83   | 354543   | 55.065   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 13.000 | 75   | 299516m  | 49.259   | ug/l   |          |
| 77) Bromobenzene              | 12.988 | 156  | 271726   | 56.892   | ug/l   | 97       |
| 78) n-propylbenzene           | 13.041 | 91   | 1407078  | 57.027   | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 13.135 | 91   | 845348   | 57.415   | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 13.182 | 105  | 1018964  | 57.928   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.741 | 75   | 99610    | 52.365   | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 13.229 | 91   | 801295   | 54.699   | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.447 | 119  | 881991   | 57.436   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.488 | 105  | 1014395  | 58.637   | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.623 | 105  | 1202681  | 55.109   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.735 | 119  | 997139   | 57.312   | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.741 | 146  | 485914   | 55.013   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.817 | 146  | 471129   | 53.751   | ug/l   | 100      |
| 89) n-Butylbenzene            | 14.064 | 91   | 801184   | 50.065   | ug/l   | 99       |
| 90) Hexachloroethane          | 14.341 | 117  | 169215   | 59.204   | ug/l   | 88       |
| 91) 1,2-Dichlorobenzene       | 14.111 | 146  | 483922   | 58.646   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.729 | 75   | 60370    | 48.431   | ug/l   | 100      |
| 93) 1,2,4-Trichlorobenzene    | 15.400 | 180  | 199753   | 41.425   | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.505 | 225  | 90912    | 45.408   | ug/l   | 99       |
| 95) Naphthalene               | 15.647 | 128  | 612131   | 36.881   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.847 | 180  | 210261   | 44.535   | ug/l   | 97       |

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Manual Integrations  
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Quant Time: Jun 01 01:54:11 2023  
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Quant Title : SW846 8260  
QLast Update : Tue May 16 04:07:42 2023  
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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