

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN020723\  
 Data File : VN076565.D  
 Acq On : 07 Feb 2023 16:32  
 Operator : JC\MD  
 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 ICVVN020723

Quant Time: Feb 08 09:06:13 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N020723W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 08 09:04:43 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 02/08/2023  
 Supervised By : Mahesh Dadoda 02/08/2023

| Compound                     | R.T.           | QIon | Response   | Conc     | Units | Dev(Min) |
|------------------------------|----------------|------|------------|----------|-------|----------|
| -----                        |                |      |            |          |       |          |
| Internal Standards           |                |      |            |          |       |          |
| 1) Pentafluorobenzene        | 8.230          | 168  | 576908     | 50.000   | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.106          | 114  | 947998     | 50.000   | ug/l  | 0.00     |
| 63) Chlorobenzene-d5         | 11.870         | 117  | 860567     | 50.000   | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.794         | 152  | 421898     | 50.000   | ug/l  | 0.00     |
| System Monitoring Compounds  |                |      |            |          |       |          |
| 33) 1,2-Dichloroethane-d4    | 8.582          | 65   | 334908     | 49.184   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 98.360%  |       |          |
| 35) Dibromofluoromethane     | 8.171          | 113  | 300365     | 50.969   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 101.940% |       |          |
| 50) Toluene-d8               | 10.571         | 98   | 1157314    | 52.202   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 104.400% |       |          |
| 62) 4-Bromofluorobenzene     | 12.853         | 95   | 417632     | 53.472   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 106.940% |       |          |
| Target Compounds             |                |      |            |          |       |          |
|                              |                |      |            |          |       | Qvalue   |
| 2) Dichlorodifluoromethane   | 2.142          | 85   | 334902     | 55.879   | ug/l  | 97       |
| 3) Chloromethane             | 2.377          | 50   | 265557     | 48.212   | ug/l  | 100      |
| 4) Vinyl Chloride            | 2.530          | 62   | 254153     | 50.252   | ug/l  | 98       |
| 5) Bromomethane              | 2.959          | 94   | 155407     | 41.416   | ug/l  | 96       |
| 6) Chloroethane              | 3.124          | 64   | 129591     | 42.361   | ug/l  | 97       |
| 7) Trichlorofluoromethane    | 3.512          | 101  | 434902     | 43.627   | ug/l  | 98       |
| 8) Diethyl Ether             | 3.977          | 74   | 205005     | 54.309   | ug/l  | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 4.389          | 101  | 309697     | 50.148   | ug/l  | 99       |
| 10) Methyl Iodide            | 4.600          | 142  | 472768     | 52.340   | ug/l  | 99       |
| 11) Tert butyl alcohol       | 5.536          | 59   | 206928     | 233.313  | ug/l  | 99       |
| 12) 1,1-Dichloroethene       | 4.353          | 96   | 297137     | 51.503   | ug/l  | 97       |
| 13) Acrolein                 | 4.195          | 56   | 287651     | 242.777  | ug/l  | 98       |
| 14) Allyl chloride           | 5.042          | 41   | 371540     | 49.448   | ug/l  | 99       |
| 15) Acrylonitrile            | 5.730          | 53   | 647852     | 243.418  | ug/l  | 99       |
| 16) Acetone                  | 4.442          | 43   | 535406     | 238.495  | ug/l  | 100      |
| 17) Carbon Disulfide         | 4.730          | 76   | 761986     | 50.984   | ug/l  | 99       |
| 18) Methyl Acetate           | 5.036          | 43   | 354728     | 49.941   | ug/l  | 99       |
| 19) Methyl tert-butyl Ether  | 5.806          | 73   | 979678     | 51.060   | ug/l  | 98       |
| 20) Methylene Chloride       | 5.289          | 84   | 328677     | 47.493   | ug/l  | 99       |
| 21) trans-1,2-Dichloroethene | 5.800          | 96   | 313709     | 50.028   | ug/l  | 98       |
| 22) Diisopropyl ether        | 6.683          | 45   | 878780     | 51.604   | ug/l  | 99       |
| 23) Vinyl Acetate            | 6.612          | 43   | 2835479    | 266.110  | ug/l  | 99       |
| 24) 1,1-Dichloroethane       | 6.583          | 63   | 549598     | 50.260   | ug/l  | 99       |
| 25) 2-Butanone               | 7.488          | 43   | 805470     | 249.611  | ug/l  | 99       |
| 26) 2,2-Dichloropropane      | 7.500          | 77   | 460641     | 50.464   | ug/l  | 99       |
| 27) cis-1,2-Dichloroethene   | 7.494          | 96   | 372494     | 50.797   | ug/l  | 99       |
| 28) Bromochloromethane       | 7.824          | 49   | 215494     | 49.183   | ug/l  | 98       |
| 29) Tetrahydrofuran          | 7.841          | 42   | 518603     | 250.061  | ug/l  | 100      |
| 30) Chloroform               | 7.971          | 83   | 597956     | 50.407   | ug/l  | 99       |
| 31) Cyclohexane              | 8.259          | 56   | 515756     | 47.922   | ug/l  | 94       |
| 32) 1,1,1-Trichloroethane    | 8.177          | 97   | 541372     | 50.931   | ug/l  | 96       |
| 36) 1,1-Dichloropropene      | 8.377          | 75   | 438768     | 52.148   | ug/l  | 100      |
| 37) Ethyl Acetate            | 7.571          | 43   | 327257     | 51.915   | ug/l  | 99       |
| 38) Carbon Tetrachloride     | 8.371          | 117  | 475869     | 52.603   | ug/l  | 98       |
| 39) Methylcyclohexane        | 9.606          | 83   | 570065     | 54.556   | ug/l  | 98       |
| 40) Benzene                  | 8.612          | 78   | 1335422    | 52.358   | ug/l  | 100      |

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 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 ICVVN020723

Quant Time: Feb 08 09:06:13 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N020723W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 08 09:04:43 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 02/08/2023  
 Supervised By : Mahesh Dadoda 02/08/2023

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.783  | 41   | 185187   | 51.884   | ug/l   | 99       |
| 42) 1,2-Dichloroethane        | 8.677  | 62   | 425805   | 51.276   | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.694  | 43   | 559652   | 53.354   | ug/l   | 100      |
| 44) Trichloroethene           | 9.353  | 130  | 355502   | 52.196   | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.624  | 63   | 315382   | 51.484   | ug/l   | 99       |
| 46) Dibromomethane            | 9.712  | 93   | 222499   | 50.351   | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.894  | 83   | 464967   | 52.325   | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.682  | 41   | 266719   | 51.703   | ug/l   | 99       |
| 49) 1,4-Dioxane               | 9.694  | 88   | 114965   | 1041.794 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43   | 1633645  | 259.137  | ug/l   | 100      |
| 52) Toluene                   | 10.635 | 92   | 876617   | 53.257   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.841 | 75   | 482760   | 56.227   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 10.312 | 75   | 538974   | 55.048   | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 11.018 | 97   | 327990   | 50.876   | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.876 | 69   | 483436   | 56.030   | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 11.165 | 76   | 543556   | 52.088   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 10.165 | 63   | 702306   | 284.831  | ug/l   | 99       |
| 59) 2-Hexanone                | 11.200 | 43   | 1171758  | 260.717  | ug/l   | 100      |
| 60) Dibromochloromethane      | 11.365 | 129  | 364418   | 53.638   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.470 | 107  | 337449   | 52.879   | ug/l   | 99       |
| 64) Tetrachloroethene         | 11.106 | 164  | 365908   | 51.063   | ug/l   | 98       |
| 65) Chlorobenzene             | 11.894 | 112  | 910012   | 51.134   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.965 | 131  | 342860   | 52.024   | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.965 | 91   | 1692251  | 53.506   | ug/l   | 98       |
| 68) m/p-Xylenes               | 12.070 | 106  | 1329242  | 107.871  | ug/l   | 100      |
| 69) o-Xylene                  | 12.400 | 106  | 651528   | 53.994   | ug/l   | 99       |
| 70) Styrene                   | 12.412 | 104  | 1073067  | 55.913   | ug/l   | 100      |
| 71) Bromoform                 | 12.582 | 173  | 252539   | 54.897   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.700 | 105  | 1720052  | 49.781   | ug/l   | 100      |
| 74) N-amyl acetate            | 12.494 | 43   | 487201   | 50.562   | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 445210   | 47.009   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.994 | 75   | 400383m  | 50.864   | ug/l   |          |
| 77) Bromobenzene              | 12.982 | 156  | 387053   | 48.159   | ug/l   | 99       |
| 78) n-propylbenzene           | 13.041 | 91   | 1991636  | 52.348   | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 13.129 | 91   | 1195026  | 49.308   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 1488046  | 51.891   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.741 | 75   | 134840   | 52.600   | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 13.129 | 91   | 1195026  | 49.308   | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.441 | 119  | 1317387  | 51.289   | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.482 | 105  | 1491004  | 52.246   | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.617 | 105  | 1849985  | 53.411   | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.735 | 119  | 1569258  | 55.285   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.735 | 146  | 743677   | 50.275   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.817 | 146  | 728190   | 48.462   | ug/l   | 99       |
| 89) n-Butylbenzene            | 14.059 | 91   | 1285749  | 57.204   | ug/l   | 100      |
| 90) Hexachloroethane          | 14.335 | 117  | 255507   | 51.678   | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene       | 14.106 | 146  | 723664   | 49.621   | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.723 | 75   | 79462    | 48.479   | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene    | 15.394 | 180  | 354103   | 52.989   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.506 | 225  | 191131   | 50.864   | ug/l   | 99       |
| 95) Naphthalene               | 15.641 | 128  | 1005543  | 51.721   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180  | 333395   | 52.095   | ug/l   | 99       |

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Sample : VSTDICV050  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN020723

Manual Integrations  
APPROVED

Reviewed By :John Carlone 02/08/2023  
Supervised By :Mahesh Dadoda 02/08/2023

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Quant Title : SW846 8260  
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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

