

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN093022\  
 Data File : VN074660.D  
 Acq On : 30 Sep 2022 11:40  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Oct 03 02:04:24 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N092922W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 30 07:44:59 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :John  
 Carlone

| Compound                     | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|------------------------------|--------|-------|----------|----------|--------|----------|
| -----                        |        |       |          |          |        |          |
| Internal Standards           |        |       |          |          |        |          |
| 1) Pentafluorobenzene        | 7.928  | 168   | 414011   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.828  | 114   | 726017   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.616 | 117   | 786562   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.545 | 152   | 533887   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.287  | 65    | 503220   | 48.498   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 74 - 125 | Recovery | =      | 97.000%  |
| 35) Dibromofluoromethane     | 7.863  | 113   | 367220   | 47.787   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 75 - 124 | Recovery | =      | 95.580%  |
| 50) Toluene-d8               | 10.310 | 98    | 1616579  | 50.012   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 86 - 113 | Recovery | =      | 100.020% |
| 62) 4-Bromofluorobenzene     | 12.604 | 95    | 536566   | 52.351   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 83 - 123 | Recovery | =      | 104.700% |
| Target Compounds             |        |       |          |          |        |          |
|                              |        |       |          |          |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.999  | 85    | 418968   | 48.339   | ug/l   | 96       |
| 3) Chloromethane             | 2.216  | 50    | 598412   | 47.195   | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.352  | 62    | 901647   | 48.971   | ug/l   | 97       |
| 5) Bromomethane              | 2.728  | 94    | 654559   | 51.464   | ug/l   | 97       |
| 6) Chloroethane              | 2.893  | 64    | 659262   | 46.595   | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 3.240  | 101   | 594628   | 46.449   | ug/l   | 97       |
| 8) Diethyl Ether             | 3.675  | 74    | 272265   | 51.256   | ug/l   | 83       |
| 9) 1,1,2-Trichlorotrifluo... | 4.052  | 101   | 358332   | 46.971   | ug/l   | 90       |
| 10) Methyl Iodide            | 4.252  | 142   | 452192   | 49.884   | ug/l   | 95       |
| 11) Tert butyl alcohol       | 5.169  | 59    | 593497   | 214.178  | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 4.022  | 96    | 349877   | 45.248   | ug/l   | 98       |
| 13) Acrolein                 | 3.887  | 56    | 289015   | 255.801  | ug/l   | 99       |
| 14) Allyl chloride           | 4.657  | 41    | 803383   | 48.100   | ug/l   | 96       |
| 15) Acrylonitrile            | 5.357  | 53    | 1587366  | 242.765  | ug/l   | 99       |
| 16) Acetone                  | 4.122  | 43    | 1481340  | 300.244  | ug/l   | 96       |
| 17) Carbon Disulfide         | 4.357  | 76    | 1051877  | 46.613   | ug/l   | 99       |
| 18) Methyl Acetate           | 4.663  | 43    | 895510   | 46.713   | ug/l   | 91       |
| 19) Methyl tert-butyl Ether  | 5.416  | 73    | 1417981  | 48.048   | ug/l   | 97       |
| 20) Methylene Chloride       | 4.899  | 84    | 446613   | 50.508   | ug/l # | 77       |
| 21) trans-1,2-Dichloroethene | 5.399  | 96    | 388013   | 45.934   | ug/l   | 89       |
| 22) Diisopropyl ether        | 6.304  | 45    | 1687487  | 49.664   | ug/l # | 96       |
| 23) Vinyl Acetate            | 6.240  | 43    | 7408797  | 248.089  | ug/l # | 91       |
| 24) 1,1-Dichloroethane       | 6.193  | 63    | 848436   | 48.934   | ug/l   | 98       |
| 25) 2-Butanone               | 7.157  | 43    | 2362560  | 247.372  | ug/l   | 91       |
| 26) 2,2-Dichloropropane      | 7.151  | 77    | 711798   | 48.274   | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 7.157  | 96    | 486086   | 47.046   | ug/l   | 93       |
| 28) Bromochloromethane       | 7.487  | 49    | 407558   | 51.610   | ug/l # | 69       |
| 29) Tetrahydrofuran          | 7.510  | 42    | 1575481  | 250.012  | ug/l   | 86       |
| 30) Chloroform               | 7.657  | 83    | 807022   | 50.506   | ug/l   | 97       |
| 31) Cyclohexane              | 7.934  | 56    | 787003   | 46.686   | ug/l   | 91       |
| 32) 1,1,1-Trichloroethane    | 7.851  | 97    | 693840   | 49.482   | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 8.063  | 75    | 624682   | 50.759   | ug/l   | 95       |
| 37) Ethyl Acetate            | 7.240  | 43    | 917364   | 50.450   | ug/l # | 93       |
| 38) Carbon Tetrachloride     | 8.045  | 117   | 587041   | 52.067   | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.316  | 83    | 798658   | 51.982   | ug/l   | 93       |
| 40) Benzene                  | 8.304  | 78    | 1951085  | 51.437   | ug/l   | 98       |

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 QLast Update : Fri Sep 30 07:44:59 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

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 Carlone

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min)                          |
|-------------------------------|--------|------|----------|---------|--------|-----------------------------------|
| 41) Methacrylonitrile         | 7.475  | 41   | 413209m  | 51.878  | ug/l   | 10/03/2022                        |
| 42) 1,2-Dichloroethane        | 8.381  | 62   | 649090   | 50.937  | ug/l   | Supervised By :Mahesh<br>97Dadoda |
| 43) Isopropyl Acetate         | 8.416  | 43   | 1488610  | 51.126  | ug/l   | 92                                |
| 44) Trichloroethene           | 9.075  | 130  | 408855   | 51.737  | ug/l   | 91                                |
| 45) 1,2-Dichloropropane       | 9.351  | 63   | 520533   | 50.408  | ug/l   | 100                               |
| 46) Dibromomethane            | 9.439  | 93   | 324215   | 49.812  | ug/l # | 85                                |
| 47) Bromodichloromethane      | 9.628  | 83   | 643190   | 50.562  | ug/l # | 94                                |
| 48) Methyl methacrylate       | 9.422  | 41   | 606360   | 50.536  | ug/l   | 10/05/2022                        |
| 49) 1,4-Dioxane               | 9.428  | 88   | 219396   | 958.607 | ug/l # | 94                                |
| 51) 4-Methyl-2-Pentanone      | 10.204 | 43   | 4859701  | 263.765 | ug/l   | 90                                |
| 52) Toluene                   | 10.375 | 92   | 1211334  | 52.888  | ug/l   | 97                                |
| 53) t-1,3-Dichloropropene     | 10.592 | 75   | 793534   | 55.031  | ug/l   | 99                                |
| 54) cis-1,3-Dichloropropene   | 10.057 | 75   | 830509   | 52.276  | ug/l # | 90                                |
| 55) 1,1,2-Trichloroethane     | 10.775 | 97   | 472071   | 51.144  | ug/l   | 97                                |
| 56) Ethyl methacrylate        | 10.639 | 69   | 867077   | 54.457  | ug/l # | 85                                |
| 57) 1,3-Dichloropropane       | 10.916 | 76   | 858611   | 52.561  | ug/l   | 98                                |
| 58) 2-Chloroethyl Vinyl ether | 9.910  | 63   | 1838393  | 282.804 | ug/l # | 88                                |
| 59) 2-Hexanone                | 10.963 | 43   | 3718166  | 267.033 | ug/l   | 89                                |
| 60) Dibromochloromethane      | 11.110 | 129  | 488188   | 54.976  | ug/l   | 99                                |
| 61) 1,2-Dibromoethane         | 11.216 | 107  | 479834   | 53.050  | ug/l   | 99                                |
| 64) Tetrachloroethene         | 10.845 | 164  | 335074   | 50.388  | ug/l   | 92                                |
| 65) Chlorobenzene             | 11.645 | 112  | 1222089  | 51.927  | ug/l   | 99                                |
| 66) 1,1,1,2-Tetrachloroethane | 11.716 | 131  | 442795   | 52.736  | ug/l   | 99                                |
| 67) Ethyl Benzene             | 11.722 | 91   | 2353288  | 53.442  | ug/l   | 99                                |
| 68) m/p-Xylenes               | 11.828 | 106  | 1815631  | 108.887 | ug/l   | 96                                |
| 69) o-Xylene                  | 12.157 | 106  | 891158   | 53.169  | ug/l   | 97                                |
| 70) Styrene                   | 12.169 | 104  | 1511510  | 56.544  | ug/l   | 99                                |
| 71) Bromoform                 | 12.333 | 173  | 356460   | 52.946  | ug/l # | 99                                |
| 73) Isopropylbenzene          | 12.457 | 105  | 2412793  | 48.244  | ug/l   | 98                                |
| 74) N-amyl acetate            | 12.269 | 43   | 1371433  | 52.428  | ug/l # | 89                                |
| 75) 1,1,2,2-Tetrachloroethane | 12.704 | 83   | 855288   | 53.796  | ug/l   | 99                                |
| 76) 1,2,3-Trichloropropane    | 12.757 | 75   | 577785m  | 48.414  | ug/l   |                                   |
| 77) Bromobenzene              | 12.733 | 156  | 484357   | 52.672  | ug/l   | 79                                |
| 78) n-propylbenzene           | 12.798 | 91   | 2904818  | 50.354  | ug/l   | 96                                |
| 79) 2-Chlorotoluene           | 12.880 | 91   | 1625865  | 46.900  | ug/l   | 97                                |
| 80) 1,3,5-Trimethylbenzene    | 12.933 | 105  | 2033247  | 50.947  | ug/l   | 98                                |
| 81) trans-1,4-Dichloro-2-b... | 12.498 | 75   | 325152   | 50.894  | ug/l   | 95                                |
| 82) 4-Chlorotoluene           | 12.980 | 91   | 1648486  | 51.098  | ug/l   | 97                                |
| 83) tert-Butylbenzene         | 13.198 | 119  | 1744368  | 48.940  | ug/l   | 97                                |
| 84) 1,2,4-Trimethylbenzene    | 13.245 | 105  | 2043318  | 51.269  | ug/l   | 96                                |
| 85) sec-Butylbenzene          | 13.374 | 105  | 2575106  | 51.412  | ug/l   | 98                                |
| 86) p-Isopropyltoluene        | 13.492 | 119  | 2118524  | 53.389  | ug/l   | 97                                |
| 87) 1,3-Dichlorobenzene       | 13.486 | 146  | 965709   | 49.675  | ug/l   | 97                                |
| 88) 1,4-Dichlorobenzene       | 13.569 | 146  | 992084   | 49.931  | ug/l   | 99                                |
| 89) n-Butylbenzene            | 13.816 | 91   | 1874107  | 53.533  | ug/l   | 97                                |
| 90) Hexachloroethane          | 14.086 | 117  | 406700   | 47.631  | ug/l   | 78                                |
| 91) 1,2-Dichlorobenzene       | 13.863 | 146  | 987818   | 48.692  | ug/l   | 99                                |
| 92) 1,2-Dibromo-3-Chloropr... | 14.474 | 75   | 170271   | 44.409  | ug/l   | 90                                |
| 93) 1,2,4-Trichlorobenzene    | 15.127 | 180  | 463584   | 51.149  | ug/l   | 99                                |
| 94) Hexachlorobutadiene       | 15.233 | 225  | 205090   | 54.303  | ug/l   | 98                                |
| 95) Naphthalene               | 15.363 | 128  | 1797236  | 50.680  | ug/l   | 99                                |
| 96) 1,2,3-Trichlorobenzene    | 15.551 | 180  | 452359   | 50.135  | ug/l   | 98                                |

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Manual Integrations  
APPROVED

Reviewed By :John  
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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

10/03/2022  
Supervised By :Mahesh  
Dadoda

10/05/2022

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