

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN110723\  
 Data File : VN079959.D  
 Acq On : 07 Nov 2023 12:33  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 11/08/2023  
 Supervised By : Mahesh Dadoda 11/08/2023

Quant Time: Nov 08 04:25:06 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N110123W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 02 05:49:08 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response             | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|----------------------|---------|--------|----------|
| -----                        |                |      |                      |         |        |          |
| Internal Standards           |                |      |                      |         |        |          |
| 1) Pentafluorobenzene        | 8.230          | 168  | 331041               | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.106          | 114  | 567705               | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.871         | 117  | 515166               | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.794         | 152  | 243820               | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                      |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.583          | 65   | 286413               | 56.788  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 113.580%  |         |        |          |
| 35) Dibromofluoromethane     | 8.171          | 113  | 220503               | 54.879  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 109.760%  |         |        |          |
| 50) Toluene-d8               | 10.571         | 98   | 821272               | 55.523  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 111.040%  |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.853         | 95   | 302200               | 61.602  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 123.200%# |         |        |          |
| Target Compounds             |                |      |                      |         |        |          |
|                              |                |      |                      |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.124          | 85   | 193075               | 48.420  | ug/l   | 99       |
| 3) Chloromethane             | 2.359          | 50   | 225362               | 45.205  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.512          | 62   | 281870               | 54.003  | ug/l   | 100      |
| 5) Bromomethane              | 2.936          | 94   | 156967               | 49.495  | ug/l   | 96       |
| 6) Chloroethane              | 3.112          | 64   | 173256               | 42.009  | ug/l   | 100      |
| 7) Trichlorofluoromethane    | 3.495          | 101  | 338776               | 52.184  | ug/l   | 99       |
| 8) Diethyl Ether             | 3.959          | 74   | 129233               | 52.458  | ug/l   | 68       |
| 9) 1,1,2-Trichlorotrifluo... | 4.371          | 101  | 191590               | 50.909  | ug/l   | 99       |
| 10) Methyl Iodide            | 4.589          | 142  | 227226               | 52.872  | ug/l   | 99       |
| 11) Tert butyl alcohol       | 5.524          | 59   | 179699               | 279.111 | ug/l   | 98       |
| 12) 1,1-Dichloroethene       | 4.342          | 96   | 178907               | 50.208  | ug/l # | 82       |
| 13) Acrolein                 | 4.183          | 56   | 142686               | 292.927 | ug/l   | 94       |
| 14) Allyl chloride           | 5.024          | 41   | 296211               | 54.275  | ug/l   | 90       |
| 15) Acrylonitrile            | 5.718          | 53   | 571249               | 284.715 | ug/l   | 100      |
| 16) Acetone                  | 4.424          | 43   | 529354               | 298.802 | ug/l   | 93       |
| 17) Carbon Disulfide         | 4.706          | 76   | 463185               | 45.064  | ug/l   | 99       |
| 18) Methyl Acetate           | 5.024          | 43   | 482763               | 56.958  | ug/l # | 84       |
| 19) Methyl tert-butyl Ether  | 5.794          | 73   | 692112               | 56.416  | ug/l   | 95       |
| 20) Methylene Chloride       | 5.277          | 84   | 219543               | 49.113  | ug/l # | 83       |
| 21) trans-1,2-Dichloroethene | 5.789          | 96   | 199995               | 50.325  | ug/l # | 78       |
| 22) Diisopropyl ether        | 6.671          | 45   | 730519               | 57.759  | ug/l # | 90       |
| 23) Vinyl Acetate            | 6.606          | 43   | 2057770              | 294.961 | ug/l # | 87       |
| 24) 1,1-Dichloroethane       | 6.571          | 63   | 418782               | 54.477  | ug/l   | 96       |
| 25) 2-Butanone               | 7.483          | 43   | 792449               | 305.465 | ug/l # | 80       |
| 26) 2,2-Dichloropropane      | 7.494          | 77   | 360730               | 56.740  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.488          | 96   | 248261               | 52.224  | ug/l   | 86       |
| 28) Bromochloromethane       | 7.818          | 49   | 182041               | 48.592  | ug/l # | 76       |
| 29) Tetrahydrofuran          | 7.835          | 42   | 506583               | 300.137 | ug/l # | 76       |
| 30) Chloroform               | 7.965          | 83   | 432428               | 51.787  | ug/l   | 91       |
| 31) Cyclohexane              | 8.259          | 56   | 331135               | 49.686  | ug/l   | 89       |
| 32) 1,1,1-Trichloroethane    | 8.171          | 97   | 374066               | 54.979  | ug/l   | 95       |
| 36) 1,1-Dichloropropene      | 8.371          | 75   | 314768               | 54.866  | ug/l   | 95       |
| 37) Ethyl Acetate            | 7.565          | 43   | 316262               | 60.108  | ug/l # | 92       |
| 38) Carbon Tetrachloride     | 8.365          | 117  | 319248               | 55.215  | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.606          | 83   | 301238               | 55.795  | ug/l # | 87       |
| 40) Benzene                  | 8.612          | 78   | 929678               | 54.104  | ug/l   | 99       |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Nov 08 04:25:06 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N110123W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 02 05:49:08 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :John Carlone 11/08/2023  
 Supervised By :Mahesh Dadoda 11/08/2023

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.783  | 41   | 173356   | 62.046   | ug/l # | 84       |
| 42) 1,2-Dichloroethane        | 8.671  | 62   | 347589   | 57.910   | ug/l   | 97       |
| 43) Isopropyl Acetate         | 8.694  | 43   | 548586   | 59.454   | ug/l # | 89       |
| 44) Trichloroethene           | 9.353  | 130  | 219415   | 51.459   | ug/l   | 95       |
| 45) 1,2-Dichloropropane       | 9.624  | 63   | 253949   | 57.830   | ug/l   | 97       |
| 46) Dibromomethane            | 9.712  | 93   | 164253   | 54.780   | ug/l   | 95       |
| 47) Bromodichloromethane      | 9.894  | 83   | 345643   | 54.052   | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.682  | 41   | 258415   | 63.939   | ug/l # | 79       |
| 49) 1,4-Dioxane               | 9.700  | 88   | 88855    | 1244.214 | ug/l # | 82       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43   | 1653737  | 318.345  | ug/l   | 91       |
| 52) Toluene                   | 10.635 | 92   | 575230   | 56.468   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.841 | 75   | 380331   | 60.670   | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 10.318 | 75   | 400939   | 58.678   | ug/l # | 90       |
| 55) 1,1,2-Trichloroethane     | 11.018 | 97   | 231931   | 56.605   | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.876 | 69   | 373782   | 63.955   | ug/l # | 85       |
| 57) 1,3-Dichloropropane       | 11.165 | 76   | 415660   | 57.553   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.165 | 63   | 860068   | 290.350  | ug/l   | 90       |
| 59) 2-Hexanone                | 11.200 | 43   | 1219463  | 306.860  | ug/l   | 90       |
| 60) Dibromochloromethane      | 11.365 | 129  | 248177   | 56.586   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.476 | 107  | 231024   | 56.177   | ug/l   | 98       |
| 64) Tetrachloroethene         | 11.106 | 164  | 172207   | 51.613   | ug/l   | 97       |
| 65) Chlorobenzene             | 11.894 | 112  | 608925   | 54.490   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.965 | 131  | 231045   | 57.385   | ug/l   | 96       |
| 67) Ethyl Benzene             | 11.965 | 91   | 1123967  | 57.729   | ug/l   | 95       |
| 68) m/p-Xylenes               | 12.076 | 106  | 837812   | 115.516  | ug/l   | 92       |
| 69) o-Xylene                  | 12.400 | 106  | 407565   | 58.357   | ug/l   | 91       |
| 70) Styrene                   | 12.412 | 104  | 687988   | 61.297   | ug/l   | 97       |
| 71) Bromoform                 | 12.582 | 173  | 172581   | 60.365   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.700 | 105  | 1040007  | 56.203   | ug/l   | 100      |
| 74) N-amyl acetate            | 12.500 | 43   | 461363   | 57.121   | ug/l   | 90       |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 352338   | 53.703   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.994 | 75   | 285121m  | 49.810   | ug/l   |          |
| 77) Bromobenzene              | 12.982 | 156  | 248005   | 54.743   | ug/l   | 93       |
| 78) n-propylbenzene           | 13.041 | 91   | 1225582  | 57.836   | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 13.129 | 91   | 763590   | 56.407   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 843274   | 58.573   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.741 | 75   | 113532   | 53.963   | ug/l # | 86       |
| 82) 4-Chlorotoluene           | 13.223 | 91   | 770767   | 57.298   | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.441 | 119  | 696142   | 59.072   | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.488 | 105  | 857461   | 60.535   | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.617 | 105  | 969354   | 59.370   | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.735 | 119  | 804085   | 60.405   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.735 | 146  | 453195   | 53.774   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.817 | 146  | 447008   | 52.255   | ug/l   | 98       |
| 89) n-Butylbenzene            | 14.059 | 91   | 694122   | 60.541   | ug/l   | 99       |
| 90) Hexachloroethane          | 14.335 | 117  | 147777   | 56.055   | ug/l   | 87       |
| 91) 1,2-Dichlorobenzene       | 14.112 | 146  | 435861   | 54.785   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.723 | 75   | 67515    | 60.682   | ug/l   | 97       |
| 93) 1,2,4-Trichlorobenzene    | 15.394 | 180  | 215046   | 56.846   | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.506 | 225  | 94991    | 55.392   | ug/l   | 99       |
| 95) Naphthalene               | 15.647 | 128  | 718902   | 56.038   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.847 | 180  | 206072   | 55.573   | ug/l   | 97       |

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Manual Integrations  
APPROVED

Reviewed By :John Carlone 11/08/2023  
Supervised By :Mahesh Dadoda 11/08/2023

Quant Time: Nov 08 04:25:06 2023  
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Quant Title : SW846 8260  
QLast Update : Thu Nov 02 05:49:08 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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