

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN100622\  
 Data File : VN074770.D  
 Acq On : 06 Oct 2022 09:26  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 10/07/2022  
 Supervised By : Mahesh Dadoda 10/07/2022

Quant Time: Oct 06 16:28:25 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N100522W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 06 05:37:50 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 8.236          | 168  | 340270     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.106          | 114  | 612139     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.871         | 117  | 683392     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.794         | 152  | 454848     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.583          | 65   | 394234     | 48.898   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 97.800%  |        |          |
| 35) Dibromofluoromethane     | 8.177          | 113  | 314902     | 50.916   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 101.840% |        |          |
| 50) Toluene-d8               | 10.571         | 98   | 1383828    | 52.145   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 104.280% |        |          |
| 62) 4-Bromofluorobenzene     | 12.853         | 95   | 446346     | 55.329   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 110.660% |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 2.142          | 85   | 317823     | 45.545   | ug/l   | 99       |
| 3) Chloromethane             | 2.383          | 50   | 426499     | 41.097   | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.530          | 62   | 580077     | 45.145   | ug/l   | 100      |
| 5) Bromomethane              | 2.924          | 94   | 464056     | 51.217   | ug/l   | 98       |
| 6) Chloroethane              | 3.112          | 64   | 400200     | 42.096   | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.501          | 101  | 441275     | 43.575   | ug/l   | 93       |
| 8) Diethyl Ether             | 3.983          | 74   | 219234     | 41.499   | ug/l   | 94       |
| 9) 1,1,2-Trichlorotrifluo... | 4.377          | 101  | 274329     | 44.219   | ug/l   | 97       |
| 10) Methyl Iodide            | 4.606          | 142  | 338405     | 45.109   | ug/l   | 98       |
| 11) Tert butyl alcohol       | 5.547          | 59   | 502867     | 186.228  | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 4.359          | 96   | 278071     | 42.107   | ug/l   | 94       |
| 13) Acrolein                 | 4.195          | 56   | 125607     | 195.284  | ug/l   | 95       |
| 14) Allyl chloride           | 5.042          | 41   | 615066     | 45.317   | ug/l   | 99       |
| 15) Acrylonitrile            | 5.736          | 53   | 1254004    | 212.920  | ug/l   | 100      |
| 16) Acetone                  | 4.453          | 43   | 1374662    | 300.868  | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.730          | 76   | 769169     | 42.621   | ug/l   | 97       |
| 18) Methyl Acetate           | 5.042          | 43   | 722879     | 42.733   | ug/l   | 97       |
| 19) Methyl tert-butyl Ether  | 5.818          | 73   | 1134715    | 44.166   | ug/l   | 100      |
| 20) Methylene Chloride       | 5.295          | 84   | 343349     | 47.103   | ug/l   | 99       |
| 21) trans-1,2-Dichloroethene | 5.795          | 96   | 307811     | 43.574   | ug/l   | 84       |
| 22) Diisopropyl ether        | 6.689          | 45   | 1331138    | 46.177   | ug/l   | 99       |
| 23) Vinyl Acetate            | 6.618          | 43   | 5694185    | 240.471  | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.583          | 63   | 650353     | 43.758   | ug/l   | 98       |
| 25) 2-Butanone               | 7.494          | 43   | 1986826    | 239.606  | ug/l   | 95       |
| 26) 2,2-Dichloropropane      | 7.500          | 77   | 557563     | 45.484   | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.500          | 96   | 383398     | 45.592   | ug/l   | 98       |
| 28) Bromochloromethane       | 7.824          | 49   | 366982     | 54.725   | ug/l   | 97       |
| 29) Tetrahydrofuran          | 7.853          | 42   | 1229293    | 212.710  | ug/l   | 99       |
| 30) Chloroform               | 7.971          | 83   | 642806     | 47.220   | ug/l   | 99       |
| 31) Cyclohexane              | 8.265          | 56   | 633465     | 45.459   | ug/l   | 97       |
| 32) 1,1,1-Trichloroethane    | 8.177          | 97   | 530437     | 45.714   | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 8.383          | 75   | 470146     | 46.965   | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.494          | 43   | 1986826    | 49.481   | ug/l # | 52       |
| 38) Carbon Tetrachloride     | 8.365          | 117  | 446895     | 47.338   | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.606          | 83   | 625128     | 48.205   | ug/l   | 96       |
| 40) Benzene                  | 8.612          | 78   | 1535062    | 47.367   | ug/l   | 98       |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 10/07/2022  
 Supervised By : Mahesh Dadoda 10/07/2022

Quant Time: Oct 06 16:28:25 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N100522W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 06 05:37:50 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.789  | 41   | 366656   | 46.352  | ug/l   | 98       |
| 42) 1,2-Dichloroethane        | 8.677  | 62   | 513146   | 50.444  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.694  | 43   | 1146652  | 46.210  | ug/l   | 99       |
| 44) Trichloroethene           | 9.359  | 130  | 329025   | 48.747  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.624  | 63   | 412912   | 47.056  | ug/l   | 96       |
| 46) Dibromomethane            | 9.718  | 93   | 255052   | 49.534  | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.888  | 83   | 516996   | 49.144  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.612  | 41   | 519070   | 50.952  | ug/l # | 98       |
| 49) 1,4-Dioxane               | 9.700  | 88   | 187557   | 849.449 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43   | 3709416  | 232.141 | ug/l   | 99       |
| 52) Toluene                   | 10.635 | 92   | 976997   | 50.184  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.835 | 75   | 636824   | 50.805  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 10.318 | 75   | 653771   | 48.311  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 11.018 | 97   | 382938   | 48.918  | ug/l   | 95       |
| 56) Ethyl methacrylate        | 10.877 | 69   | 686211   | 48.131  | ug/l   | 99       |
| 57) 1,3-Dichloropropane       | 11.165 | 76   | 679649   | 48.172  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 10.165 | 63   | 1383372  | 269.015 | ug/l   | 100      |
| 59) 2-Hexanone                | 11.200 | 43   | 2998163  | 248.059 | ug/l   | 98       |
| 60) Dibromochloromethane      | 11.359 | 129  | 399217   | 51.770  | ug/l   | 97       |
| 61) 1,2-Dibromoethane         | 11.471 | 107  | 389346   | 48.913  | ug/l   | 97       |
| 64) Tetrachloroethene         | 11.106 | 164  | 252246   | 45.468  | ug/l   | 92       |
| 65) Chlorobenzene             | 11.894 | 112  | 970286   | 46.346  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.965 | 131  | 346676   | 45.350  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.965 | 91   | 1883666  | 48.270  | ug/l   | 99       |
| 68) m/p-Xylenes               | 12.076 | 106  | 1449817  | 98.971  | ug/l   | 99       |
| 69) o-Xylene                  | 12.400 | 106  | 721908   | 48.034  | ug/l   | 98       |
| 70) Styrene                   | 12.412 | 104  | 1189128  | 50.189  | ug/l   | 100      |
| 71) Bromoform                 | 12.576 | 173  | 284868   | 48.852  | ug/l # | 29       |
| 73) Isopropylbenzene          | 12.700 | 105  | 1915027  | 43.753  | ug/l   | 98       |
| 74) N-amyl acetate            | 12.494 | 43   | 1054428  | 39.844  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 675776   | 47.456  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 12.994 | 75   | 597437m  | 44.007  | ug/l   |          |
| 77) Bromobenzene              | 12.982 | 156  | 380689   | 48.360  | ug/l   | 98       |
| 78) n-propylbenzene           | 13.035 | 91   | 2296603  | 45.545  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 13.129 | 91   | 1304700  | 42.669  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 1584020  | 45.377  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75   | 287265   | 41.227  | ug/l   | 94       |
| 82) 4-Chlorotoluene           | 13.223 | 91   | 1292773  | 45.616  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.441 | 119  | 1374199  | 45.556  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene    | 13.482 | 105  | 1626887  | 46.091  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.618 | 105  | 2057797  | 46.944  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.729 | 119  | 1648208  | 48.723  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.735 | 146  | 780109   | 44.940  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.812 | 146  | 784854   | 47.868  | ug/l   | 99       |
| 89) n-Butylbenzene            | 14.059 | 91   | 1506837  | 50.537  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.335 | 117  | 314014   | 41.516  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 14.106 | 146  | 790873   | 47.310  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.723 | 75   | 140161   | 38.634  | ug/l   | 99       |
| 93) 1,2,4-Trichlorobenzene    | 15.394 | 180  | 359642   | 49.183  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.500 | 225  | 164453   | 48.076  | ug/l   | 98       |
| 95) Naphthalene               | 15.641 | 128  | 1434642  | 45.381  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180  | 344261   | 47.591  | ug/l   | 97       |

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Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

Reviewed By :John Carlone 10/07/2022  
Supervised By :Mahesh Dadoda 10/07/2022

Quant Time: Oct 06 16:28:25 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N100522W.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 06 05:37:50 2022  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

