

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091622\  
 Data File : VN074498.D  
 Acq On : 16 Sep 2022 09:47  
 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 09/17/2022  
 Supervised By : Mahesh Dadoda 09/19/2022

Quant Time: Sep 16 16:13:41 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091522W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 15 19:20:33 2022  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 8.010  | 168  | 290541   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.898  | 114  | 540043   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.686 | 117  | 496483   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.616 | 152  | 226563   | 50.000 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |            |      |
|---------------------------|--------|-------|----------|----------|------------|------|
| 33) 1,2-Dichloroethane-d4 | 8.369  | 65    | 249896   | 50.692   | ug/l       | 0.00 |
| Spiked Amount             | 50.000 | Range | 74 - 125 | Recovery | = 101.380% |      |
| 35) Dibromofluoromethane  | 7.945  | 113   | 191702   | 53.437   | ug/l       | 0.00 |
| Spiked Amount             | 50.000 | Range | 75 - 124 | Recovery | = 106.880% |      |
| 50) Toluene-d8            | 10.380 | 98    | 740744   | 53.391   | ug/l       | 0.00 |
| Spiked Amount             | 50.000 | Range | 86 - 113 | Recovery | = 106.780% |      |
| 62) 4-Bromofluorobenzene  | 12.674 | 95    | 262202   | 55.180   | ug/l       | 0.00 |
| Spiked Amount             | 50.000 | Range | 83 - 123 | Recovery | = 110.360% |      |

## Target Compounds

|                              |       |     |         |         |        | Qvalue |
|------------------------------|-------|-----|---------|---------|--------|--------|
| 2) Dichlorodifluoromethane   | 2.046 | 85  | 144712  | 45.765  | ug/l   | 96     |
| 3) Chloromethane             | 2.263 | 50  | 282665  | 53.130  | ug/l   | 96     |
| 4) Vinyl Chloride            | 2.405 | 62  | 315187  | 55.377  | ug/l   | 98     |
| 5) Bromomethane              | 2.787 | 94  | 214863  | 71.583  | ug/l   | 98     |
| 6) Chloroethane              | 2.957 | 64  | 231970  | 59.666  | ug/l   | 93     |
| 7) Trichlorofluoromethane    | 3.310 | 101 | 299735  | 47.688  | ug/l   | 99     |
| 8) Diethyl Ether             | 3.757 | 74  | 152414  | 47.551  | ug/l   | 74     |
| 9) 1,1,2-Trichlorotrifluo... | 4.140 | 101 | 201847  | 51.908  | ug/l   | 88     |
| 10) Methyl Iodide            | 4.351 | 142 | 239893  | 52.295  | ug/l   | 96     |
| 11) Tert butyl alcohol       | 5.275 | 59  | 320155  | 199.364 | ug/l # | 86     |
| 12) 1,1-Dichloroethene       | 4.110 | 96  | 193096  | 50.409  | ug/l   | 89     |
| 13) Acrolein                 | 3.975 | 56  | 174956  | 298.332 | ug/l   | 99     |
| 14) Allyl chloride           | 4.757 | 41  | 462779  | 50.648  | ug/l # | 95     |
| 15) Acrylonitrile            | 5.463 | 53  | 915023  | 253.625 | ug/l   | 100    |
| 16) Acetone                  | 4.216 | 43  | 791642  | 250.954 | ug/l   | 95     |
| 17) Carbon Disulfide         | 4.451 | 76  | 496627  | 47.330  | ug/l   | 96     |
| 18) Methyl Acetate           | 4.769 | 43  | 478577  | 48.845  | ug/l # | 87     |
| 19) Methyl tert-butyl Ether  | 5.528 | 73  | 802820  | 49.780  | ug/l   | 98     |
| 20) Methylene Chloride       | 5.004 | 84  | 242197  | 50.290  | ug/l # | 81     |
| 21) trans-1,2-Dichloroethene | 5.504 | 96  | 209642  | 49.880  | ug/l   | 90     |
| 22) Diisopropyl ether        | 6.404 | 45  | 989396  | 53.925  | ug/l # | 95     |
| 23) Vinyl Acetate            | 6.345 | 43  | 4468119 | 276.106 | ug/l # | 91     |
| 24) 1,1-Dichloroethane       | 6.304 | 63  | 467061  | 50.927  | ug/l   | 99     |
| 25) 2-Butanone               | 7.251 | 43  | 1337494 | 255.369 | ug/l # | 87     |
| 26) 2,2-Dichloropropane      | 7.240 | 77  | 402104  | 50.854  | ug/l   | 97     |
| 27) cis-1,2-Dichloroethene   | 7.240 | 96  | 267737  | 49.767  | ug/l   | 91     |
| 28) Bromochloromethane       | 7.581 | 49  | 139954  | 51.820  | ug/l # | 67     |
| 29) Tetrahydrofuran          | 7.598 | 42  | 874405  | 253.923 | ug/l # | 84     |
| 30) Chloroform               | 7.739 | 83  | 447410  | 52.855  | ug/l   | 95     |
| 31) Cyclohexane              | 8.022 | 56  | 439618  | 50.241  | ug/l   | 84     |
| 32) 1,1,1-Trichloroethane    | 7.939 | 97  | 362763  | 48.862  | ug/l   | 94     |
| 36) 1,1-Dichloropropene      | 8.145 | 75  | 326049  | 51.348  | ug/l   | 97     |
| 37) Ethyl Acetate            | 7.328 | 43  | 528458  | 53.890  | ug/l # | 94     |
| 38) Carbon Tetrachloride     | 8.134 | 117 | 302664  | 51.626  | ug/l   | 99     |
| 39) Methylcyclohexane        | 9.392 | 83  | 419695  | 55.585  | ug/l   | 95     |
| 40) Benzene                  | 8.386 | 78  | 1038552 | 52.892  | ug/l   | 100    |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Sep 16 16:13:41 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091522W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 15 19:20:33 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 09/17/2022  
 Supervised By : Mahesh Dadoda 09/19/2022

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.563  | 41   | 272256   | 57.426  | ug/l # | 83       |
| 42) 1,2-Dichloroethane        | 8.457  | 62   | 352670   | 52.339  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.492  | 43   | 828726   | 53.952  | ug/l # | 92       |
| 44) Trichloroethene           | 9.145  | 130  | 215132   | 50.633  | ug/l   | 90       |
| 45) 1,2-Dichloropropane       | 9.428  | 63   | 287779   | 53.329  | ug/l   | 100      |
| 46) Dibromomethane            | 9.510  | 93   | 175207   | 51.841  | ug/l # | 83       |
| 47) Bromodichloromethane      | 9.698  | 83   | 350476   | 52.893  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.492  | 41   | 352268   | 51.721  | ug/l   | 88       |
| 49) 1,4-Dioxane               | 9.504  | 88   | 123151   | 940.475 | ug/l # | 93       |
| 51) 4-Methyl-2-Pentanone      | 10.269 | 43   | 2785532  | 277.701 | ug/l   | 88       |
| 52) Toluene                   | 10.439 | 92   | 637272   | 55.347  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.657 | 75   | 418419   | 54.182  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene   | 10.128 | 75   | 449263   | 54.362  | ug/l # | 84       |
| 55) 1,1,2-Trichloroethane     | 10.839 | 97   | 251406   | 51.547  | ug/l   | 92       |
| 56) Ethyl methacrylate        | 10.698 | 69   | 472215   | 54.202  | ug/l # | 79       |
| 57) 1,3-Dichloropropane       | 10.986 | 76   | 467612   | 54.684  | ug/l   | 97       |
| 58) 2-Chloroethyl Vinyl ether | 9.981  | 63   | 1042898  | 272.004 | ug/l   | 90       |
| 59) 2-Hexanone                | 11.022 | 43   | 2115977  | 276.334 | ug/l   | 86       |
| 60) Dibromochloromethane      | 11.180 | 129  | 255026   | 54.621  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.286 | 107  | 257709   | 54.391  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.910 | 164  | 172949   | 50.759  | ug/l   | 93       |
| 65) Chlorobenzene             | 11.710 | 112  | 642983   | 51.587  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.780 | 131  | 231075   | 51.027  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.786 | 91   | 1243026  | 54.320  | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.892 | 106  | 933727   | 110.360 | ug/l   | 96       |
| 69) o-Xylene                  | 12.222 | 106  | 456826   | 52.956  | ug/l   | 93       |
| 70) Styrene                   | 12.233 | 104  | 771371   | 53.755  | ug/l   | 98       |
| 71) Bromoform                 | 12.398 | 173  | 179384   | 53.896  | ug/l # | 97       |
| 73) Isopropylbenzene          | 12.522 | 105  | 1204067  | 51.903  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.333 | 43   | 748786   | 51.624  | ug/l # | 86       |
| 75) 1,1,2,2-Tetrachloroethane | 12.769 | 83   | 437578   | 47.069  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.822 | 75   | 331269m  | 47.502  | ug/l   |          |
| 77) Bromobenzene              | 12.804 | 156  | 250229   | 50.495  | ug/l   | 75       |
| 78) n-propylbenzene           | 12.863 | 91   | 1476053  | 53.423  | ug/l   | 96       |
| 79) 2-Chlorotoluene           | 12.945 | 91   | 835999   | 50.686  | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene    | 13.004 | 105  | 993553   | 52.539  | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.569 | 75   | 160134   | 49.560  | ug/l   | 97       |
| 82) 4-Chlorotoluene           | 13.045 | 91   | 823278   | 52.513  | ug/l   | 96       |
| 83) tert-Butylbenzene         | 13.263 | 119  | 879154   | 51.082  | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene    | 13.310 | 105  | 985745   | 51.797  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.445 | 105  | 1271936  | 53.824  | ug/l   | 97       |
| 86) p-Isopropyltoluene        | 13.557 | 119  | 1021138  | 55.427  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.557 | 146  | 469962   | 51.608  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.633 | 146  | 472894   | 51.670  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.886 | 91   | 947662   | 57.069  | ug/l   | 95       |
| 90) Hexachloroethane          | 14.151 | 117  | 202614   | 50.546  | ug/l   | 74       |
| 91) 1,2-Dichlorobenzene       | 13.927 | 146  | 468861   | 49.629  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.545 | 75   | 95378    | 46.462  | ug/l   | 76       |
| 93) 1,2,4-Trichlorobenzene    | 15.198 | 180  | 233122   | 51.795  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.304 | 225  | 97617    | 49.349  | ug/l   | 97       |
| 95) Naphthalene               | 15.439 | 128  | 948776   | 48.958  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.627 | 180  | 236881   | 50.768  | ug/l   | 97       |

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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 09/17/2022  
Supervised By :Mahesh Dadoda 09/19/2022

Quant Time: Sep 16 16:13:41 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091522W.M  
Quant Title : SW846 8260  
QLast Update : Thu Sep 15 19:20:33 2022  
Response via : Initial Calibration

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

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

