

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN030822\  
 Data File : VN071183.D  
 Acq On : 08 Mar 2022 11:37  
 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 03/09/2022  
 Supervised By : Mahesh Dadoda 03/09/2022

Quant Time: Mar 09 03:59:56 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N030722W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Mar 08 06:52:46 2022  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 8.081  | 168  | 636319   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.963  | 114  | 1014357  | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.739 | 117  | 945939   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.669 | 152  | 383215   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.434  | 65    | 434254   | 49.794   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 61 - 141 | Recovery | =    | 99.580%  |
| 35) Dibromofluoromethane    | 8.016  | 113   | 327367   | 51.144   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 69 - 133 | Recovery | =    | 102.280% |
| 50) Toluene-d8              | 10.433 | 98    | 1334332  | 51.774   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 65 - 126 | Recovery | =    | 103.540% |
| 62) 4-Bromofluorobenzene    | 12.727 | 95    | 457041   | 52.370   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 135 | Recovery | =    | 104.740% |

|                              |       |     |         |         |        |     |
|------------------------------|-------|-----|---------|---------|--------|-----|
| Target Compounds             |       |     |         |         | Qvalue |     |
| 2) Dichlorodifluoromethane   | 2.069 | 85  | 322158  | 46.195  | ug/l   | 97  |
| 3) Chloromethane             | 2.299 | 50  | 432392  | 46.181  | ug/l   | 99  |
| 4) Vinyl Chloride            | 2.446 | 62  | 397570  | 46.518  | ug/l   | 100 |
| 5) Bromomethane              | 2.834 | 94  | 218839  | 58.339  | ug/l   | 100 |
| 6) Chloroethane              | 3.010 | 64  | 257256  | 49.704  | ug/l   | 98  |
| 7) Trichlorofluoromethane    | 3.369 | 101 | 524792  | 46.652  | ug/l   | 96  |
| 8) Diethyl Ether             | 3.822 | 74  | 233746  | 48.558  | ug/l   | 93  |
| 9) 1,1,2-Trichlorotrifluo... | 4.210 | 101 | 309548  | 47.535  | ug/l   | 96  |
| 10) Methyl Iodide            | 4.422 | 142 | 440939  | 47.940  | ug/l   | 99  |
| 11) Tert butyl alcohol       | 5.357 | 59  | 393827  | 229.877 | ug/l   | 98  |
| 12) 1,1-Dichloroethene       | 4.187 | 96  | 297730  | 46.671  | ug/l   | 94  |
| 13) Acrolein                 | 4.040 | 56  | 405512  | 223.627 | ug/l   | 99  |
| 14) Allyl chloride           | 4.840 | 41  | 652137  | 47.001  | ug/l   | 87  |
| 15) Acrylonitrile            | 5.551 | 53  | 1174092 | 230.800 | ug/l   | 98  |
| 16) Acetone                  | 4.281 | 43  | 1015104 | 239.222 | ug/l   | 96  |
| 17) Carbon Disulfide         | 4.534 | 76  | 839916  | 46.247  | ug/l   | 99  |
| 18) Methyl Acetate           | 4.851 | 43  | 538916  | 47.315  | ug/l   | 96  |
| 19) Methyl tert-butyl Ether  | 5.610 | 73  | 1168512 | 48.787  | ug/l   | 96  |
| 20) Methylene Chloride       | 5.098 | 84  | 372336  | 48.025  | ug/l   | 93  |
| 21) trans-1,2-Dichloroethene | 5.593 | 96  | 324677  | 46.530  | ug/l   | 91  |
| 22) Diisopropyl ether        | 6.492 | 45  | 1330747 | 48.683  | ug/l   | 93  |
| 23) Vinyl Acetate            | 6.428 | 43  | 5737342 | 247.929 | ug/l   | 98  |
| 24) 1,1-Dichloroethane       | 6.387 | 63  | 685014  | 47.425  | ug/l   | 99  |
| 25) 2-Butanone               | 7.328 | 43  | 1603096 | 234.523 | ug/l   | 95  |
| 26) 2,2-Dichloropropane      | 7.322 | 77  | 549309  | 49.295  | ug/l   | 97  |
| 27) cis-1,2-Dichloroethene   | 7.322 | 96  | 389751  | 47.063  | ug/l   | 90  |
| 28) Bromochloromethane       | 7.657 | 49  | 308905  | 48.025  | ug/l   | 82  |
| 29) Tetrahydrofuran          | 7.681 | 42  | 1091679 | 230.530 | ug/l   | 91  |
| 30) Chloroform               | 7.816 | 83  | 649026  | 47.112  | ug/l   | 98  |
| 31) Cyclohexane              | 8.092 | 56  | 647533  | 46.496  | ug/l   | 92  |
| 32) 1,1,1-Trichloroethane    | 8.010 | 97  | 558312  | 47.577  | ug/l   | 98  |
| 36) 1,1-Dichloropropene      | 8.216 | 75  | 494979  | 48.264  | ug/l   | 97  |
| 37) Ethyl Acetate            | 7.404 | 43  | 640022  | 45.345  | ug/l   | 98  |
| 38) Carbon Tetrachloride     | 8.204 | 117 | 483895  | 48.780  | ug/l   | 98  |
| 39) Methylcyclohexane        | 9.457 | 83  | 624651  | 51.774  | ug/l   | 92  |
| 40) Benzene                  | 8.457 | 78  | 1509541 | 48.853  | ug/l   | 99  |

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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 03/09/2022  
 Supervised By : Mahesh Dadoda 03/09/2022

Quant Time: Mar 09 03:59:56 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N030722W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Mar 08 06:52:46 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.628  | 41   | 353733   | 51.211  | ug/l # | 84       |
| 42) 1,2-Dichloroethane        | 8.528  | 62   | 533956   | 49.658  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.557  | 43   | 1003068  | 47.523  | ug/l   | 97       |
| 44) Trichloroethene           | 9.210  | 130  | 357837   | 49.081  | ug/l   | 95       |
| 45) 1,2-Dichloropropane       | 9.486  | 63   | 403824   | 48.684  | ug/l   | 100      |
| 46) Dibromomethane            | 9.575  | 93   | 251282   | 49.219  | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.757  | 83   | 512748   | 49.697  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.551  | 41   | 486244   | 49.711  | ug/l # | 83       |
| 49) 1,4-Dioxane               | 9.563  | 88   | 166315   | 978.209 | ug/l # | 86       |
| 51) 4-Methyl-2-Pentanone      | 10.328 | 43   | 3176611  | 242.508 | ug/l   | 99       |
| 52) Toluene                   | 10.498 | 92   | 961089   | 50.511  | ug/l   | 95       |
| 53) t-1,3-Dichloropropene     | 10.716 | 75   | 584845   | 51.423  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 10.186 | 75   | 637995   | 51.339  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 10.892 | 97   | 369067   | 48.405  | ug/l   | 99       |
| 56) Ethyl methacrylate        | 10.757 | 69   | 630221   | 50.615  | ug/l   | 91       |
| 57) 1,3-Dichloropropane       | 11.039 | 76   | 665967   | 48.662  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.039 | 63   | 484297   | 192.362 | ug/l   | 94       |
| 59) 2-Hexanone                | 11.080 | 43   | 2231805  | 249.710 | ug/l   | 99       |
| 60) Dibromochloromethane      | 11.233 | 129  | 387949   | 51.210  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.339 | 107  | 381548   | 48.964  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.975 | 164  | 324847   | 49.239  | ug/l   | 99       |
| 65) Chlorobenzene             | 11.763 | 112  | 992817   | 48.872  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.833 | 131  | 366039   | 49.140  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.839 | 91   | 1820041  | 50.671  | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.951 | 106  | 1380347  | 105.049 | ug/l   | 99       |
| 69) o-Xylene                  | 12.274 | 106  | 680713   | 51.681  | ug/l   | 97       |
| 70) Styrene                   | 12.292 | 104  | 1092304  | 53.574  | ug/l   | 97       |
| 71) Bromoform                 | 12.451 | 173  | 293264   | 51.843  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.574 | 105  | 1773238  | 48.002  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.380 | 43   | 666008   | 47.949  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.822 | 83   | 563768   | 51.429  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.874 | 75   | 506596m  | 54.815  | ug/l   |          |
| 77) Bromobenzene              | 12.857 | 156  | 408608   | 47.434  | ug/l   | 84       |
| 78) n-propylbenzene           | 12.916 | 91   | 1960927  | 49.468  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 13.004 | 91   | 1193766  | 46.913  | ug/l   | 94       |
| 80) 1,3,5-Trimethylbenzene    | 13.057 | 105  | 1421759  | 49.469  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.622 | 75   | 171826   | 48.470  | ug/l   | 91       |
| 82) 4-Chlorotoluene           | 13.098 | 91   | 1139148  | 50.259  | ug/l   | 94       |
| 83) tert-Butylbenzene         | 13.321 | 119  | 1256571  | 48.992  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.363 | 105  | 1376432  | 50.000  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.498 | 105  | 1736246  | 50.929  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.610 | 119  | 1390305  | 51.856  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.610 | 146  | 669613   | 47.841  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 13.692 | 146  | 651207   | 47.597  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.939 | 91   | 1074802  | 51.255  | ug/l   | 96       |
| 90) Hexachloroethane          | 14.204 | 117  | 257869   | 48.366  | ug/l   | 90       |
| 91) 1,2-Dichlorobenzene       | 13.986 | 146  | 642796   | 47.769  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.598 | 75   | 97189    | 45.217  | ug/l   | 89       |
| 93) 1,2,4-Trichlorobenzene    | 15.263 | 180  | 310028   | 49.403  | ug/l   | 96       |
| 94) Hexachlorobutadiene       | 15.363 | 225  | 190771   | 50.501  | ug/l   | 98       |
| 95) Naphthalene               | 15.504 | 128  | 793188   | 45.642  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.698 | 180  | 293131   | 48.792  | ug/l   | 99       |

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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 03/09/2022  
Supervised By :Mahesh Dadoda 03/09/2022

Quant Time: Mar 09 03:59:56 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N030722W.M  
Quant Title : SW846 8260  
QLast Update : Tue Mar 08 06:52:46 2022  
Response via : Initial Calibration

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

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

