

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN071024\  
 Data File : VN082848.D  
 Acq On : 10 Jul 2024 12:03  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 07/11/2024  
 Supervised By : Mahesh Dadoda 07/11/2024

Quant Time: Jul 11 03:44:53 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N070824W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 08 13:46:04 2024  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 8.224          | 168  | 135537              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.106          | 114  | 223624              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.865         | 117  | 209979              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.794         | 152  | 102829              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.577          | 65   | 97794               | 51.472  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 102.940% |         |        |          |
| 35) Dibromofluoromethane     | 8.165          | 113  | 75279               | 52.461  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 104.920% |         |        |          |
| 50) Toluene-d8               | 10.571         | 98   | 281394              | 53.094  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 106.180% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.847         | 95   | 98570               | 51.776  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 64 - 133 |      | Recovery = 103.560% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.124          | 85   | 83477               | 47.572  | ug/l   | 100      |
| 3) Chloromethane             | 2.359          | 50   | 78401               | 47.113  | ug/l   | 94       |
| 4) Vinyl Chloride            | 2.512          | 62   | 85199               | 48.749  | ug/l   | 99       |
| 5) Bromomethane              | 2.948          | 94   | 55888               | 44.352  | ug/l   | 100      |
| 6) Chloroethane              | 3.112          | 64   | 59422               | 49.684  | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.489          | 101  | 118521              | 47.150  | ug/l   | 96       |
| 8) Diethyl Ether             | 3.959          | 74   | 38994               | 45.326  | ug/l   | 83       |
| 9) 1,1,2-Trichlorotrifluo... | 4.365          | 101  | 68918               | 48.442  | ug/l   | 98       |
| 10) Methyl Iodide            | 4.589          | 142  | 69078               | 47.359  | ug/l   | 98       |
| 11) Tert butyl alcohol       | 5.530          | 59   | 65676               | 205.519 | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 4.336          | 96   | 61843               | 44.697  | ug/l   | 92       |
| 13) Acrolein                 | 4.183          | 56   | 33791               | 146.462 | ug/l   | 99       |
| 14) Allyl chloride           | 5.024          | 41   | 95779               | 44.397  | ug/l # | 94       |
| 15) Acrylonitrile            | 5.718          | 53   | 176860              | 240.822 | ug/l   | 98       |
| 16) Acetone                  | 4.430          | 43   | 157230              | 235.049 | ug/l   | 94       |
| 17) Carbon Disulfide         | 4.712          | 76   | 178011              | 43.055  | ug/l   | 97       |
| 18) Methyl Acetate           | 5.024          | 43   | 83035               | 46.912  | ug/l   | 93       |
| 19) Methyl tert-butyl Ether  | 5.800          | 73   | 211988              | 44.416  | ug/l   | 99       |
| 20) Methylene Chloride       | 5.277          | 84   | 71874               | 44.491  | ug/l   | 88       |
| 21) trans-1,2-Dichloroethene | 5.789          | 96   | 68208               | 45.497  | ug/l   | 86       |
| 22) Diisopropyl ether        | 6.671          | 45   | 220633              | 48.885  | ug/l # | 95       |
| 23) Vinyl Acetate            | 6.600          | 43   | 891829              | 248.824 | ug/l   | 96       |
| 24) 1,1-Dichloroethane       | 6.571          | 63   | 128109              | 46.795  | ug/l   | 98       |
| 25) 2-Butanone               | 7.483          | 43   | 243748              | 241.325 | ug/l   | 95       |
| 26) 2,2-Dichloropropane      | 7.494          | 77   | 120803              | 47.459  | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.488          | 96   | 79695               | 45.406  | ug/l   | 92       |
| 28) Bromochloromethane       | 7.812          | 49   | 52001               | 44.277  | ug/l   | 87       |
| 29) Tetrahydrofuran          | 7.841          | 42   | 154403              | 242.820 | ug/l # | 88       |
| 30) Chloroform               | 7.971          | 83   | 136572              | 47.024  | ug/l   | 94       |
| 31) Cyclohexane              | 8.259          | 56   | 110950              | 44.667  | ug/l   | 95       |
| 32) 1,1,1-Trichloroethane    | 8.165          | 97   | 121699              | 45.132  | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 8.371          | 75   | 93602               | 47.312  | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.565          | 43   | 100109              | 49.701  | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 8.365          | 117  | 109899              | 46.136  | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.600          | 83   | 99774               | 46.688  | ug/l   | 91       |
| 40) Benzene                  | 8.606          | 78   | 289370              | 47.550  | ug/l   | 99       |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 3 Sample Multiplier: 1

**Instrument :**

MSVOA\_N

**ClientSampleId :**

VSTDCCC050

**Manual Integrations****APPROVED**

Reviewed By :John Carlone 07/11/2024

Supervised By :Mahesh Dadoda 07/11/2024

Quant Time: Jul 11 03:44:53 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N070824W.M

Quant Title : SW846 8260

QLast Update : Mon Jul 08 13:46:04 2024

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.783  | 41   | 50993    | 46.993  | ug/l   | 92       |
| 42) 1,2-Dichloroethane        | 8.671  | 62   | 103543   | 47.262  | ug/l   | 97       |
| 43) Isopropyl Acetate         | 8.688  | 43   | 175996   | 46.109  | ug/l   | 96       |
| 44) Trichloroethene           | 9.353  | 130  | 69963    | 44.873  | ug/l   | 94       |
| 45) 1,2-Dichloropropane       | 9.624  | 63   | 72606    | 51.103  | ug/l   | 90       |
| 46) Dibromomethane            | 9.712  | 93   | 52590    | 47.513  | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.888  | 83   | 110365   | 48.257  | ug/l   | 96       |
| 48) Methyl methacrylate       | 9.682  | 41   | 74553    | 47.205  | ug/l # | 89       |
| 49) 1,4-Dioxane               | 9.694  | 88   | 31230    | 907.061 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43   | 506192   | 253.497 | ug/l   | 94       |
| 52) Toluene                   | 10.629 | 92   | 181478   | 47.738  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.835 | 75   | 113966   | 48.372  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene   | 10.318 | 75   | 117938   | 47.292  | ug/l   | 89       |
| 55) 1,1,2-Trichloroethane     | 11.018 | 97   | 67905    | 48.576  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.877 | 69   | 108869   | 50.058  | ug/l   | 88       |
| 57) 1,3-Dichloropropane       | 11.165 | 76   | 117749   | 47.586  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63   | 320637   | 287.317 | ug/l   | 96       |
| 59) 2-Hexanone                | 11.194 | 43   | 386488   | 260.329 | ug/l   | 93       |
| 60) Dibromochloromethane      | 11.359 | 129  | 85296    | 47.907  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.471 | 107  | 71262    | 48.004  | ug/l   | 98       |
| 64) Tetrachloroethene         | 11.106 | 164  | 69012    | 44.052  | ug/l   | 96       |
| 65) Chlorobenzene             | 11.894 | 112  | 199479   | 44.333  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131  | 73156    | 45.709  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.965 | 91   | 343951   | 45.482  | ug/l   | 97       |
| 68) m/p-Xylenes               | 12.071 | 106  | 269943   | 94.548  | ug/l   | 98       |
| 69) o-Xylene                  | 12.400 | 106  | 128769   | 47.070  | ug/l   | 93       |
| 70) Styrene                   | 12.412 | 104  | 222628   | 49.253  | ug/l   | 99       |
| 71) Bromoform                 | 12.582 | 173  | 58485    | 46.466  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.694 | 105  | 322257   | 43.128  | ug/l   | 98       |
| 74) N-amyl acetate            | 12.494 | 43   | 142849   | 46.219  | ug/l   | 94       |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 97263    | 43.464  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.994 | 75   | 92444m   | 52.145  | ug/l   |          |
| 77) Bromobenzene              | 12.982 | 156  | 80955    | 41.997  | ug/l   | 95       |
| 78) n-propylbenzene           | 13.035 | 91   | 390173   | 45.416  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 13.123 | 91   | 236032   | 43.120  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 275971   | 45.692  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.741 | 75   | 43662    | 48.437  | ug/l   | 86       |
| 82) 4-Chlorotoluene           | 13.223 | 91   | 237180   | 43.776  | ug/l   | 97       |
| 83) tert-Butylbenzene         | 13.441 | 119  | 230655   | 43.076  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.482 | 105  | 281233   | 45.685  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.617 | 105  | 323331   | 44.685  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.729 | 119  | 274968   | 45.547  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.735 | 146  | 153451   | 44.067  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.812 | 146  | 149811   | 41.599  | ug/l   | 99       |
| 89) n-Butylbenzene            | 14.059 | 91   | 232680   | 44.988  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.335 | 117  | 54416    | 42.599  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 14.106 | 146  | 144652   | 42.783  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.723 | 75   | 21547    | 41.620  | ug/l   | 95       |
| 93) 1,2,4-Trichlorobenzene    | 15.394 | 180  | 77917    | 42.783  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.500 | 225  | 34358    | 42.556  | ug/l   | 97       |
| 95) Naphthalene               | 15.641 | 128  | 253660   | 40.666  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180  | 79122    | 42.254  | ug/l   | 98       |

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Manual Integrations  
APPROVED

Reviewed By :John Carlone 07/11/2024  
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Quant Time: Jul 11 03:44:53 2024  
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Quant Title : SW846 8260  
QLast Update : Mon Jul 08 13:46:04 2024  
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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