

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX040124\  
 Data File : VX040844.D  
 Acq On : 01 Apr 2024 14:00  
 Operator : JC/MD  
 Sample : VSTDICC020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICC020

Quant Time: Apr 02 05:24:58 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X040124W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 02 05:19:09 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 04/02/2024  
 Supervised By : Mahesh Dadoda 04/02/2024

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 5.550          | 168  | 48112      | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.763          | 114  | 80206      | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 73554      | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.018         | 152  | 38384      | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.952          | 65   | 16799      | 19.460   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 78 - 117 |      | Recovery = | 38.920%# |        |          |
| 35) Dibromofluoromethane     | 5.391          | 113  | 11372      | 20.018   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 40.040%# |        |          |
| 50) Toluene-d8               | 8.647          | 98   | 41416      | 20.175   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 92 - 112 |      | Recovery = | 40.360%# |        |          |
| 62) 4-Bromofluorobenzene     | 11.079         | 95   | 15938      | 19.442   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 38.880%# |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 12386      | 18.993   | ug/l   | 99       |
| 3) Chloromethane             | 1.300          | 50   | 11062      | 19.635   | ug/l # | 88       |
| 4) Vinyl Chloride            | 1.374          | 62   | 11790      | 20.274   | ug/l   | 96       |
| 5) Bromomethane              | 1.599          | 94   | 7172       | 20.047   | ug/l   | 98       |
| 6) Chloroethane              | 1.685          | 64   | 7764       | 20.711   | ug/l   | 100      |
| 7) Trichlorofluoromethane    | 1.886          | 101  | 22933      | 20.601   | ug/l   | 100      |
| 8) Diethyl Ether             | 2.136          | 74   | 6396       | 17.780   | ug/l   | 100      |
| 9) 1,1,2-Trichlorotrifluo... | 2.331          | 101  | 11649      | 20.298   | ug/l   | 97       |
| 10) Methyl Iodide            | 2.453          | 142  | 14780      | 21.231   | ug/l   | 100      |
| 11) Tert butyl alcohol       | 2.959          | 59   | 15597      | 98.962   | ug/l # | 92       |
| 12) 1,1-Dichloroethene       | 2.319          | 96   | 11023      | 20.479   | ug/l   | 95       |
| 13) Acrolein                 | 2.239          | 56   | 7856       | 91.315   | ug/l   | 98       |
| 14) Allyl chloride           | 2.666          | 41   | 19690      | 20.421   | ug/l   | 91       |
| 15) Acrylonitrile            | 3.062          | 53   | 33510      | 100.790  | ug/l   | 95       |
| 16) Acetone                  | 2.380          | 43   | 33616      | 100.287  | ug/l   | 99       |
| 17) Carbon Disulfide         | 2.514          | 76   | 30020      | 19.279   | ug/l   | 100      |
| 18) Methyl Acetate           | 2.703          | 43   | 16534      | 20.791   | ug/l   | 97       |
| 19) Methyl tert-butyl Ether  | 3.117          | 73   | 37951      | 20.031   | ug/l   | 94       |
| 20) Methylene Chloride       | 2.788          | 84   | 12447      | 20.037   | ug/l   | 94       |
| 21) trans-1,2-Dichloroethene | 3.093          | 96   | 11418      | 20.084   | ug/l   | 93       |
| 22) Diisopropyl ether        | 3.757          | 45   | 38101      | 20.305   | ug/l # | 81       |
| 23) Vinyl Acetate            | 3.721          | 43   | 182681     | 101.575  | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 3.611          | 63   | 21830      | 20.363   | ug/l   | 99       |
| 25) 2-Butanone               | 4.556          | 43   | 50575      | 101.570  | ug/l   | 96       |
| 26) 2,2-Dichloropropane      | 4.483          | 77   | 18457      | 20.053   | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 4.489          | 96   | 13153      | 20.035   | ug/l   | 97       |
| 28) Bromochloromethane       | 4.891          | 49   | 9376       | 19.451   | ug/l   | 100      |
| 29) Tetrahydrofuran          | 5.001          | 42   | 33538      | 103.627  | ug/l   | 99       |
| 30) Chloroform               | 5.099          | 83   | 24300      | 20.825   | ug/l   | 99       |
| 31) Cyclohexane              | 5.470          | 56   | 18451      | 20.142   | ug/l   | 96       |
| 32) 1,1,1-Trichloroethane    | 5.385          | 97   | 21249      | 20.492   | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 5.696          | 75   | 16399      | 20.316   | ug/l   | 97       |
| 37) Ethyl Acetate            | 4.714          | 43   | 20648      | 20.831   | ug/l   | 96       |
| 38) Carbon Tetrachloride     | 5.678          | 117  | 18263      | 20.437   | ug/l   | 99       |
| 39) Methylcyclohexane        | 7.385          | 83   | 19853      | 20.584   | ug/l   | 94       |
| 40) Benzene                  | 6.037          | 78   | 46328      | 20.678   | ug/l   | 100      |

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 Sample : VSTDICC020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICC020

Quant Time: Apr 02 05:24:58 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X040124W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 02 05:19:09 2024  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 04/02/2024  
 Supervised By : Mahesh Dadoda 04/02/2024

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 4.916  | 41   | 11126    | 21.857  | ug/l   | 96       |
| 42) 1,2-Dichloroethane        | 6.092  | 62   | 19961    | 20.513  | ug/l   | 96       |
| 43) Isopropyl Acetate         | 6.342  | 43   | 31770    | 20.755  | ug/l   | 97       |
| 44) Trichloroethene           | 7.129  | 130  | 11427    | 20.422  | ug/l   | 90       |
| 45) 1,2-Dichloropropane       | 7.433  | 63   | 11357    | 21.235  | ug/l   | 98       |
| 46) Dibromomethane            | 7.580  | 93   | 9270     | 21.147  | ug/l   | 98       |
| 47) Bromodichloromethane      | 7.818  | 83   | 18707    | 20.511  | ug/l   | 99       |
| 48) Methyl methacrylate       | 7.696  | 41   | 15861    | 21.159  | ug/l   | 94       |
| 49) 1,4-Dioxane               | 7.659  | 88   | 6229     | 435.462 | ug/l # | 97       |
| 51) 4-Methyl-2-Pentanone      | 8.574  | 43   | 105100   | 103.510 | ug/l   | 97       |
| 52) Toluene                   | 8.720  | 92   | 28961    | 20.487  | ug/l   | 92       |
| 53) t-1,3-Dichloropropene     | 8.976  | 75   | 18003    | 19.848  | ug/l   | 95       |
| 54) cis-1,3-Dichloropropene   | 8.366  | 75   | 19280    | 21.319  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 11577    | 20.985  | ug/l   | 92       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 19507    | 20.592  | ug/l # | 92       |
| 57) 1,3-Dichloropropane       | 9.305  | 76   | 19722    | 20.440  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 8.238  | 63   | 46895    | 102.113 | ug/l   | 97       |
| 59) 2-Hexanone                | 9.427  | 43   | 85131    | 104.542 | ug/l   | 94       |
| 60) Dibromochloromethane      | 9.518  | 129  | 13425    | 20.384  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 12586    | 21.146  | ug/l   | 99       |
| 64) Tetrachloroethene         | 9.275  | 164  | 9942     | 20.425  | ug/l   | 98       |
| 65) Chlorobenzene             | 10.079 | 112  | 32782    | 20.379  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131  | 10736    | 20.107  | ug/l   | 97       |
| 67) Ethyl Benzene             | 10.195 | 91   | 60606    | 21.126  | ug/l   | 97       |
| 68) m/p-Xylenes               | 10.299 | 106  | 43423    | 41.601  | ug/l   | 90       |
| 69) o-Xylene                  | 10.640 | 106  | 20858    | 21.211  | ug/l   | 89       |
| 70) Styrene                   | 10.652 | 104  | 35735    | 20.971  | ug/l   | 96       |
| 71) Bromoform                 | 10.799 | 173  | 9152     | 20.200  | ug/l # | 100      |
| 73) Isopropylbenzene          | 10.963 | 105  | 56765    | 21.174  | ug/l   | 100      |
| 74) N-amyl acetate            | 10.841 | 43   | 28436    | 20.942  | ug/l   | 95       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 19603    | 21.385  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 11.238 | 75   | 17006m   | 20.777  | ug/l   |          |
| 77) Bromobenzene              | 11.195 | 156  | 13273    | 21.106  | ug/l   | 96       |
| 78) n-propylbenzene           | 11.305 | 91   | 70723    | 21.109  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 11.366 | 91   | 41868    | 20.940  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 48989    | 21.396  | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 5866     | 19.336  | ug/l   | 93       |
| 82) 4-Chlorotoluene           | 11.451 | 91   | 50727    | 21.250  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 11.713 | 119  | 48141    | 21.194  | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 49988    | 21.672  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 60526    | 20.981  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 12.006 | 119  | 50790    | 20.991  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 26383    | 20.755  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 12.042 | 146  | 26774    | 19.850  | ug/l   | 99       |
| 89) n-Butylbenzene            | 12.329 | 91   | 50011    | 20.921  | ug/l   | 95       |
| 90) Hexachloroethane          | 12.536 | 117  | 8558     | 20.303  | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 25392    | 20.383  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75   | 5231     | 22.208  | ug/l   | 96       |
| 93) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 17583    | 20.359  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 6434     | 19.448  | ug/l   | 97       |
| 95) Naphthalene               | 13.774 | 128  | 59004    | 21.218  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 16974    | 20.602  | ug/l   | 99       |

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Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC020

Manual Integrations  
APPROVED

Reviewed By :John Carlone 04/02/2024  
Supervised By :Mahesh Dadoda 04/02/2024

Quant Time: Apr 02 05:24:58 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X040124W.M  
Quant Title : SW846 8260  
QLast Update : Tue Apr 02 05:19:09 2024  
Response via : Initial Calibration

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

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

