

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX111721\  
 Data File : VX025197.D  
 Acq On : 17 Nov 2021 19:21  
 Operator : JC/MD  
 Sample : M4068-08 5.0PPB  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 LOQ-WATER-02-QT4-2021

Quant Time: Nov 18 07:02:17 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X111721W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 18 06:58:13 2021  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 11/18/2021  
 Supervised By : Mahesh Dadoda 11/18/2021

| Compound                     | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                        |                |      |                     |        |        |          |
| Internal Standards           |                |      |                     |        |        |          |
| 1) Pentafluorobenzene        | 5.556          | 168  | 117019              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.763          | 114  | 185401              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 167469              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.024         | 152  | 80503               | 50.000 | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.958          | 65   | 63795               | 51.720 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 78 - 117 |      | Recovery = 103.440% |        |        |          |
| 35) Dibromofluoromethane     | 5.391          | 113  | 58089               | 51.065 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 102.120% |        |        |          |
| 50) Toluene-d8               | 8.653          | 98   | 216336              | 50.580 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 92 - 112 |      | Recovery = 101.160% |        |        |          |
| 62) 4-Bromofluorobenzene     | 11.085         | 95   | 78682               | 48.627 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 97.260%  |        |        |          |
| Target Compounds             |                |      |                     |        |        |          |
|                              |                |      |                     |        | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 4527                | 4.463  | ug/l   | 94       |
| 3) Chloromethane             | 1.288          | 50   | 5972                | 4.755  | ug/l   | 97       |
| 4) Vinyl Chloride            | 1.374          | 62   | 6574                | 4.767  | ug/l   | 97       |
| 5) Bromomethane              | 1.593          | 94   | 3689                | 6.222  | ug/l   | 99       |
| 6) Chloroethane              | 1.679          | 64   | 4867                | 5.115  | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 1.880          | 101  | 10717               | 5.236  | ug/l   | 98       |
| 8) Diethyl Ether             | 2.136          | 74   | 4219                | 4.995  | ug/l   | 89       |
| 9) 1,1,2-Trichlorotrifluo... | 2.325          | 101  | 5538                | 5.085  | ug/l   | 96       |
| 10) Methyl Iodide            | 2.447          | 142  | 5446                | 4.000  | ug/l   | 92       |
| 11) Tert butyl alcohol       | 2.971          | 59   | 11764               | 35.408 | ug/l # | 92       |
| 12) 1,1-Dichloroethene       | 2.313          | 96   | 5571                | 5.137  | ug/l   | 88       |
| 13) Acrolein                 | 2.239          | 56   | 1522                | 26.934 | ug/l   | 87       |
| 14) Allyl chloride           | 2.660          | 41   | 9837                | 5.011  | ug/l   | 97       |
| 15) Acrylonitrile            | 3.069          | 53   | 17224               | 26.022 | ug/l   | 98       |
| 16) Acetone                  | 2.380          | 43   | 16471               | 24.032 | ug/l   | 95       |
| 17) Carbon Disulfide         | 2.508          | 76   | 14765               | 4.839  | ug/l   | 99       |
| 18) Methyl Acetate           | 2.709          | 43   | 11441               | 5.225  | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 3.117          | 73   | 19336               | 5.117  | ug/l   | 98       |
| 20) Methylene Chloride       | 2.788          | 84   | 6506                | 5.050  | ug/l   | 97       |
| 21) trans-1,2-Dichloroethene | 3.087          | 96   | 6216                | 5.232  | ug/l   | 85       |
| 22) Diisopropyl ether        | 3.770          | 45   | 18992               | 5.081  | ug/l   | 91       |
| 23) Vinyl Acetate            | 3.727          | 43   | 74285               | 24.740 | ug/l # | 94       |
| 24) 1,1-Dichloroethane       | 3.611          | 63   | 10106               | 4.948  | ug/l   | 98       |
| 25) 2-Butanone               | 4.562          | 43   | 25125               | 25.355 | ug/l   | 98       |
| 26) 2,2-Dichloropropane      | 4.483          | 77   | 9410                | 5.082  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 4.489          | 96   | 6960                | 5.016  | ug/l   | 92       |
| 28) Bromochloromethane       | 4.910          | 49   | 4587                | 4.816  | ug/l   | 87       |
| 29) Tetrahydrofuran          | 5.013          | 42   | 16127               | 26.285 | ug/l   | 97       |
| 30) Chloroform               | 5.093          | 83   | 10857               | 5.108  | ug/l   | 97       |
| 31) Cyclohexane              | 5.471          | 56   | 9686                | 5.082  | ug/l # | 92       |
| 32) 1,1,1-Trichloroethane    | 5.391          | 97   | 10115               | 5.198  | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 5.696          | 75   | 8085                | 4.998  | ug/l   | 97       |
| 37) Ethyl Acetate            | 4.727          | 43   | 9722                | 5.283  | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 5.678          | 117  | 9005                | 5.054  | ug/l # | 90       |
| 39) Methylcyclohexane        | 7.385          | 83   | 10118               | 4.877  | ug/l   | 92       |
| 40) Benzene                  | 6.044          | 78   | 24544               | 5.009  | ug/l   | 98       |

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Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 LOQ-WATER-02-QT4-2021

Quant Time: Nov 18 07:02:17 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X111721W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 18 06:58:13 2021  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :John Carlone 11/18/2021  
 Supervised By :Mahesh Dadoda 11/18/2021

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 4.922  | 41   | 5226     | 5.116   | ug/l   | 94       |
| 42) 1,2-Dichloroethane        | 6.092  | 62   | 8338     | 5.230   | ug/l   | 93       |
| 43) Isopropyl Acetate         | 6.348  | 43   | 15328    | 5.005   | ug/l   | 98       |
| 44) Trichloroethene           | 7.129  | 130  | 7020     | 4.932   | ug/l   | 91       |
| 45) 1,2-Dichloropropane       | 7.434  | 63   | 6075     | 5.048   | ug/l   | 98       |
| 46) Dibromomethane            | 7.586  | 93   | 4456     | 5.100   | ug/l   | 89       |
| 47) Bromodichloromethane      | 7.824  | 83   | 8461     | 4.928   | ug/l   | 95       |
| 48) Methyl methacrylate       | 7.696  | 41   | 7198     | 5.008   | ug/l   | 97       |
| 49) 1,4-Dioxane               | 7.665  | 88   | 3329     | 109.669 | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone      | 8.574  | 43   | 47862    | 24.921  | ug/l   | 97       |
| 52) Toluene                   | 8.720  | 92   | 16124    | 5.040   | ug/l   | 96       |
| 53) t-1,3-Dichloropropene     | 8.982  | 75   | 8992     | 4.710   | ug/l   | 95       |
| 54) cis-1,3-Dichloropropene   | 8.366  | 75   | 9907     | 4.787   | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 6377     | 5.015   | ug/l   | 96       |
| 56) Ethyl methacrylate        | 9.122  | 69   | 9816     | 4.757   | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 9.311  | 76   | 10571    | 5.016   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 8.244  | 63   | 22367    | 23.300  | ug/l   | 93       |
| 59) 2-Hexanone                | 9.433  | 43   | 36415    | 24.051  | ug/l   | 96       |
| 60) Dibromochloromethane      | 9.525  | 129  | 7001     | 4.784   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 6891     | 5.004   | ug/l   | 99       |
| 64) Tetrachloroethene         | 9.275  | 164  | 7273     | 5.267   | ug/l   | 92       |
| 65) Chlorobenzene             | 10.079 | 112  | 17809    | 5.218   | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane | 10.165 | 131  | 6776     | 5.178   | ug/l   | 98       |
| 67) Ethyl Benzene             | 10.195 | 91   | 29649    | 5.027   | ug/l   | 98       |
| 68) m/p-Xylenes               | 10.305 | 106  | 23610    | 9.801   | ug/l   | 96       |
| 69) o-Xylene                  | 10.646 | 106  | 12210    | 5.179   | ug/l   | 89       |
| 70) Styrene                   | 10.659 | 104  | 19194    | 4.928   | ug/l   | 97       |
| 71) Bromoform                 | 10.799 | 173  | 5604     | 4.932   | ug/l # | 98       |
| 73) Isopropylbenzene          | 10.963 | 105  | 29987    | 5.227   | ug/l   | 97       |
| 74) N-amyl acetate            | 10.848 | 43   | 12379    | 4.988   | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 9669     | 5.210   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 11.244 | 75   | 8741m    | 5.302   | ug/l   |          |
| 77) Bromobenzene              | 11.201 | 156  | 8074     | 5.472   | ug/l   | 91       |
| 78) n-propylbenzene           | 11.305 | 91   | 32586    | 5.060   | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 11.366 | 91   | 20268    | 5.169   | ug/l   | 93       |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 25605    | 5.309   | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 3067     | 4.687   | ug/l   | 90       |
| 82) 4-Chlorotoluene           | 11.457 | 91   | 22793    | 5.093   | ug/l   | 95       |
| 83) tert-Butylbenzene         | 11.719 | 119  | 25777    | 5.259   | ug/l   | 93       |
| 84) 1,2,4-Trimethylbenzene    | 11.756 | 105  | 24637    | 5.169   | ug/l   | 94       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 30373    | 5.097   | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 12.012 | 119  | 25230    | 4.928   | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 11.976 | 146  | 13808    | 5.027   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 12.043 | 146  | 13843    | 4.974   | ug/l   | 96       |
| 89) n-Butylbenzene            | 12.335 | 91   | 20379    | 4.723   | ug/l   | 96       |
| 90) Hexachloroethane          | 12.542 | 117  | 4763     | 5.049   | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 13949    | 5.211   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 1860     | 4.798   | ug/l   | 77       |
| 93) 1,2,4-Trichlorobenzene    | 13.591 | 180  | 7155     | 4.541   | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 3757     | 4.966   | ug/l   | 97       |
| 95) Naphthalene               | 13.780 | 128  | 22530    | 4.594   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 7347     | 4.767   | ug/l   | 99       |

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Quant Title : SW846 8260  
QLast Update : Thu Nov 18 06:58:13 2021  
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LOQ-WATER-02-QT4-2021

Manual Integrations  
APPROVED

Reviewed By :John Carlone 11/18/2021  
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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

