

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX121721\  
 Data File : VX025872.D  
 Acq On : 16 Dec 2021 22:12  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Dec 17 00:27:46 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X121321W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 14 07:02:11 2021  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 12/17/2021  
 Supervised By : Mahesh Dadoda 12/22/2021

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 5.556          | 168  | 123971     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.769          | 114  | 213241     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 204600     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.024         | 152  | 104097     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.958          | 65   | 76274      | 42.761   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 78 - 117 |      | Recovery = | 85.520%  |        |          |
| 35) Dibromofluoromethane     | 5.391          | 113  | 64296      | 43.234   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 86.460%  |        |          |
| 50) Toluene-d8               | 8.653          | 98   | 238515     | 44.018   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 92 - 112 |      | Recovery = | 88.040%# |        |          |
| 62) 4-Bromofluorobenzene     | 11.085         | 95   | 92245      | 44.816   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 89.640%  |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.167          | 85   | 57670      | 52.015   | ug/l   | 97       |
| 3) Chloromethane             | 1.295          | 50   | 68139      | 47.198   | ug/l   | 98       |
| 4) Vinyl Chloride            | 1.374          | 62   | 74564      | 48.556   | ug/l   | 99       |
| 5) Bromomethane              | 1.599          | 94   | 45993      | 41.945   | ug/l   | 98       |
| 6) Chloroethane              | 1.679          | 64   | 51667      | 46.453   | ug/l   | 100      |
| 7) Trichlorofluoromethane    | 1.880          | 101  | 117123     | 46.174   | ug/l   | 95       |
| 8) Diethyl Ether             | 2.136          | 74   | 47640      | 47.612   | ug/l   | 100      |
| 9) 1,1,2-Trichlorotrifluo... | 2.325          | 101  | 59669      | 45.204   | ug/l   | 99       |
| 10) Methyl Iodide            | 2.453          | 142  | 82783      | 49.221   | ug/l   | 99       |
| 11) Tert butyl alcohol       | 2.977          | 59   | 75023      | 209.674  | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 2.319          | 96   | 59995      | 45.714   | ug/l   | 97       |
| 13) Acrolein                 | 2.240          | 56   | 54521      | 222.925  | ug/l   | 99       |
| 14) Allyl chloride           | 2.666          | 41   | 104581     | 43.662   | ug/l   | 98       |
| 15) Acrylonitrile            | 3.069          | 53   | 203300     | 243.388  | ug/l   | 99       |
| 16) Acetone                  | 2.386          | 43   | 176450     | 226.667  | ug/l   | 99       |
| 17) Carbon Disulfide         | 2.508          | 76   | 139706     | 37.163   | ug/l   | 100      |
| 18) Methyl Acetate           | 2.709          | 43   | 134636     | 49.524   | ug/l   | 100      |
| 19) Methyl tert-butyl Ether  | 3.123          | 73   | 225954     | 48.744   | ug/l   | 99       |
| 20) Methylene Chloride       | 2.794          | 84   | 74043      | 48.457   | ug/l   | 98       |
| 21) trans-1,2-Dichloroethene | 3.093          | 96   | 68347      | 46.664   | ug/l   | 99       |
| 22) Diisopropyl ether        | 3.770          | 45   | 232269     | 49.991   | ug/l   | 91       |
| 23) Vinyl Acetate            | 3.727          | 43   | 904337     | 251.526  | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 3.611          | 63   | 124008     | 46.745   | ug/l   | 97       |
| 25) 2-Butanone               | 4.562          | 43   | 287918     | 239.993  | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 4.483          | 77   | 75285      | 37.415   | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 4.489          | 96   | 81502      | 46.929   | ug/l   | 100      |
| 28) Bromochloromethane       | 4.904          | 49   | 53877      | 45.066   | ug/l   | 98       |
| 29) Tetrahydrofuran          | 5.013          | 42   | 190124     | 249.258  | ug/l   | 99       |
| 30) Chloroform               | 5.099          | 83   | 137314     | 47.194   | ug/l   | 100      |
| 31) Cyclohexane              | 5.477          | 56   | 108049     | 49.811   | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 5.391          | 97   | 113916     | 44.985   | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 5.696          | 75   | 93982      | 46.601   | ug/l   | 98       |
| 37) Ethyl Acetate            | 4.721          | 43   | 111543     | 49.781   | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 5.684          | 117  | 98546      | 41.996   | ug/l   | 97       |
| 39) Methylcyclohexane        | 7.385          | 83   | 108301     | 47.993   | ug/l   | 98       |
| 40) Benzene                  | 6.044          | 78   | 290849     | 48.346   | ug/l   | 99       |

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 MSVOA\_X  
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Quant Time: Dec 17 00:27:46 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X121321W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 14 07:02:11 2021  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 12/17/2021  
 Supervised By : Mahesh Dadoda 12/22/2021

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 4.928  | 41   | 62047    | 50.036  | ug/l   | 97       |
| 42) 1,2-Dichloroethane        | 6.092  | 62   | 107875   | 47.180  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 6.349  | 43   | 172870   | 47.887  | ug/l   | 99       |
| 44) Trichloroethene           | 7.129  | 130  | 80154    | 47.857  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 7.434  | 63   | 72842    | 48.038  | ug/l   | 98       |
| 46) Dibromomethane            | 7.586  | 93   | 55254    | 46.807  | ug/l   | 99       |
| 47) Bromodichloromethane      | 7.824  | 83   | 101554   | 43.649  | ug/l   | 97       |
| 48) Methyl methacrylate       | 7.696  | 41   | 86409    | 50.830  | ug/l   | 99       |
| 49) 1,4-Dioxane               | 7.659  | 88   | 36128    | 973.474 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone      | 8.580  | 43   | 594036   | 251.374 | ug/l   | 99       |
| 52) Toluene                   | 8.720  | 92   | 190935   | 49.811  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 8.982  | 75   | 97797    | 44.098  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 8.373  | 75   | 112384   | 46.314  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 79368    | 48.282  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 9.122  | 69   | 120985   | 51.247  | ug/l   | 100      |
| 57) 1,3-Dichloropropane       | 9.311  | 76   | 131564   | 48.793  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 8.245  | 63   | 285348   | 247.617 | ug/l   | 100      |
| 59) 2-Hexanone                | 9.433  | 43   | 458393   | 256.012 | ug/l   | 100      |
| 60) Dibromochloromethane      | 9.525  | 129  | 82321    | 44.123  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 84782    | 47.566  | ug/l   | 99       |
| 64) Tetrachloroethene         | 9.275  | 164  | 69837    | 42.791  | ug/l   | 98       |
| 65) Chlorobenzene             | 10.080 | 112  | 211716   | 49.642  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 10.165 | 131  | 76094    | 45.691  | ug/l   | 98       |
| 67) Ethyl Benzene             | 10.195 | 91   | 364432   | 50.531  | ug/l   | 99       |
| 68) m/p-Xylenes               | 10.305 | 106  | 289079   | 103.010 | ug/l   | 99       |
| 69) o-Xylene                  | 10.647 | 106  | 142808   | 51.728  | ug/l   | 99       |
| 70) Styrene                   | 10.659 | 104  | 241208   | 52.506  | ug/l   | 99       |
| 71) Bromoform                 | 10.805 | 173  | 57255    | 41.733  | ug/l # | 100      |
| 73) Isopropylbenzene          | 10.964 | 105  | 366437   | 48.503  | ug/l   | 100      |
| 74) N-amyl acetate            | 10.848 | 43   | 159732   | 52.565  | ug/l   | 100      |
| 75) 1,1,2,2-Tetrachloroethane | 11.214 | 83   | 126815   | 48.161  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 11.244 | 75   | 104805m  | 43.943  | ug/l   |          |
| 77) Bromobenzene              | 11.201 | 156  | 93627    | 48.314  | ug/l   | 97       |
| 78) n-propylbenzene           | 11.305 | 91   | 415775   | 48.654  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 11.366 | 91   | 255161   | 46.955  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 306210   | 48.870  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 11.025 | 75   | 28210    | 36.670  | ug/l   | 89       |
| 82) 4-Chlorotoluene           | 11.457 | 91   | 290815   | 47.791  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 11.720 | 119  | 304109   | 49.515  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene    | 11.756 | 105  | 313279   | 50.049  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 11.896 | 105  | 371470   | 50.320  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 12.012 | 119  | 319904   | 51.600  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 172500   | 47.774  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 12.043 | 146  | 175974   | 47.736  | ug/l   | 99       |
| 89) n-Butylbenzene            | 12.335 | 91   | 258455   | 49.977  | ug/l   | 100      |
| 90) Hexachloroethane          | 12.543 | 117  | 48227    | 39.581  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 170070   | 49.322  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 24760    | 41.845  | ug/l   | 95       |
| 93) 1,2,4-Trichlorobenzene    | 13.591 | 180  | 97979    | 47.347  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 38284    | 52.195  | ug/l   | 96       |
| 95) Naphthalene               | 13.780 | 128  | 354912   | 49.917  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 100566   | 48.959  | ug/l   | 99       |

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Manual Integrations  
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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

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