

Flume Runs: 02/22/2018

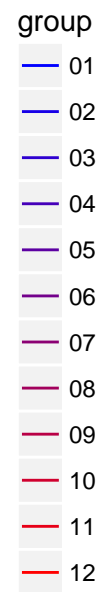
Justin Nghiem

02/22/18

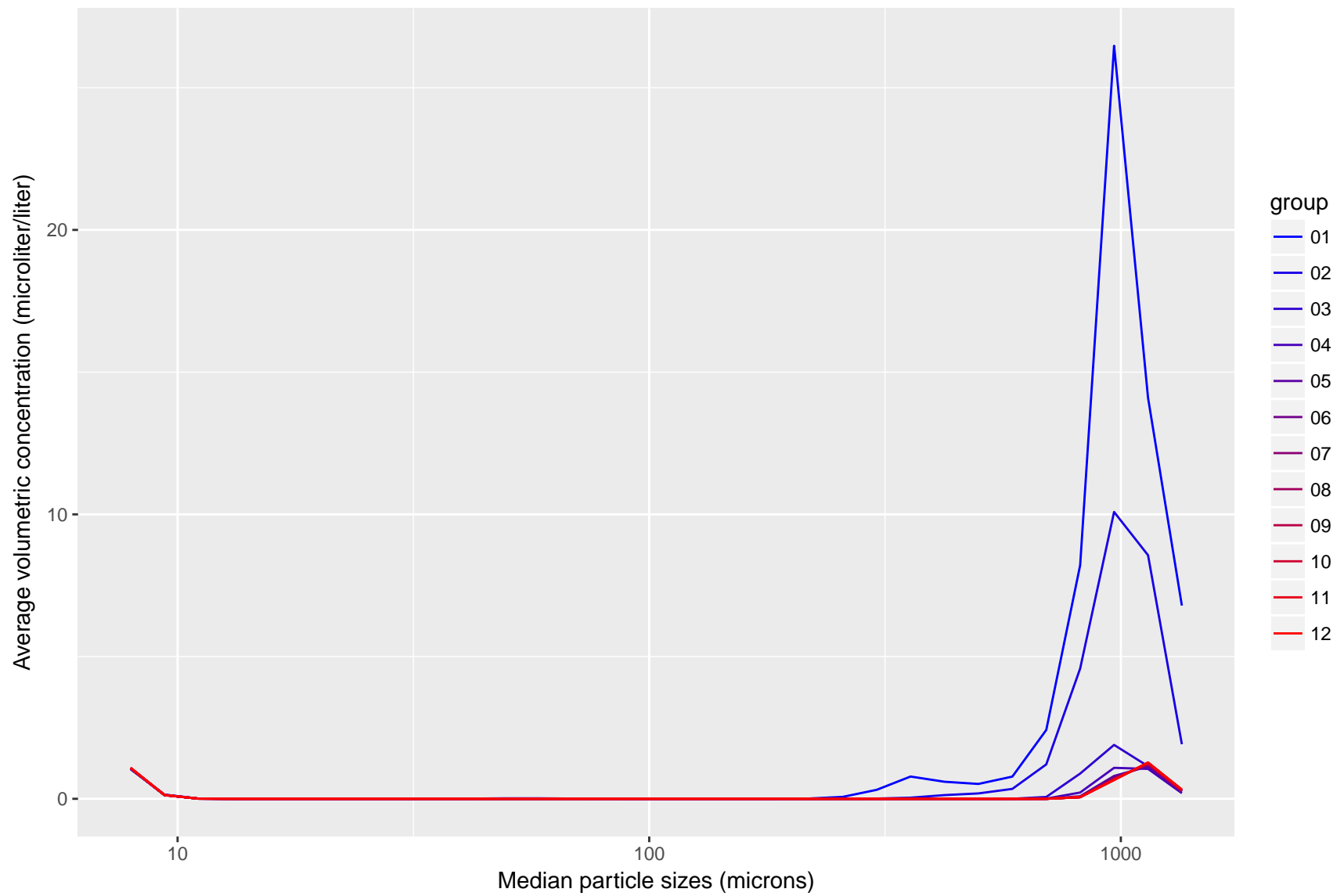
Run 1 (1 hour)

The groups are 5-minute intervals for data aggregation. For example, group 1 is the first 5 minutes in the data collection and group 12 is the final 5 minutes. Particle concentration is averaged within groups for the plots.

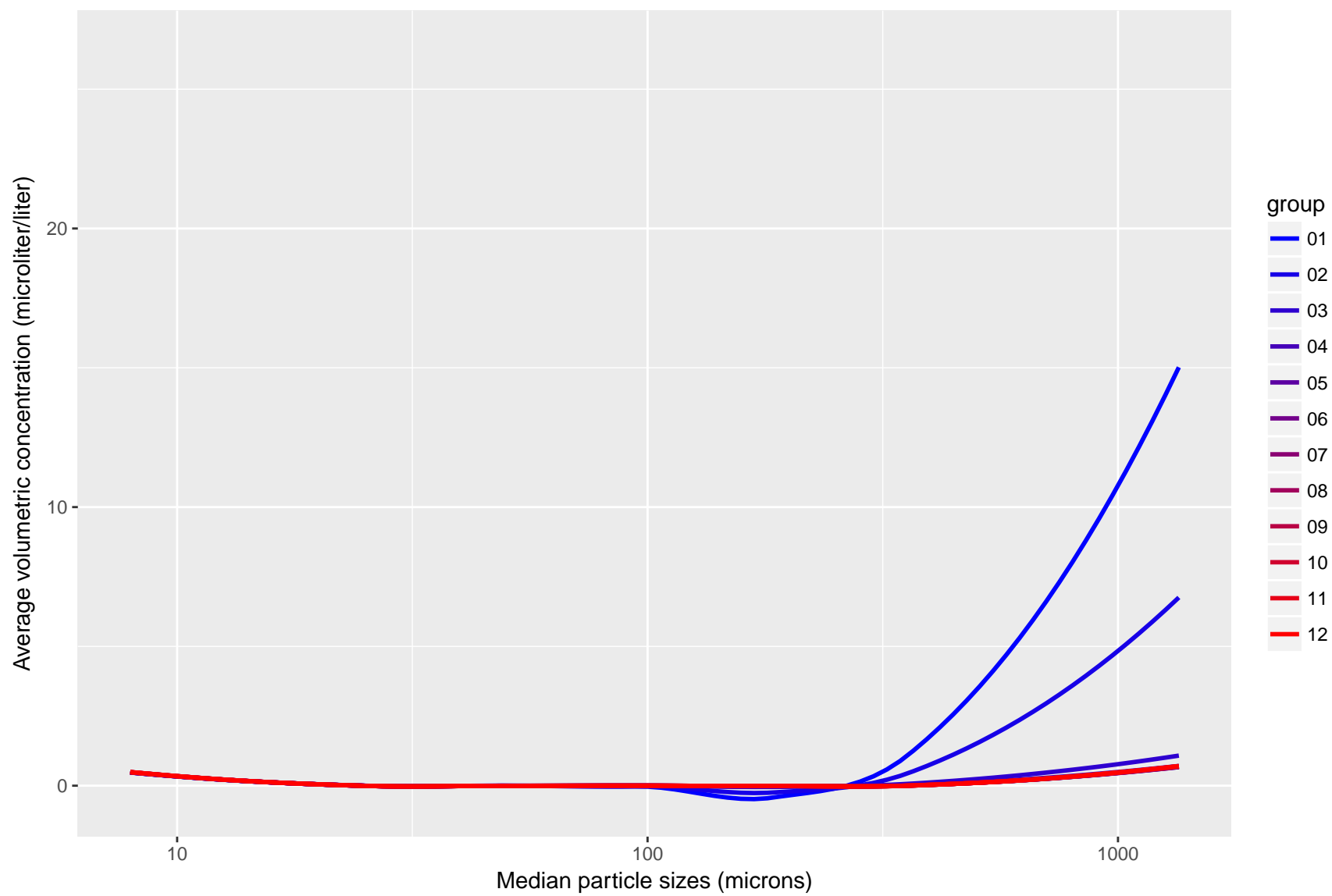
Figure 1 is a log-log plot showing the mass fraction of particles versus median particle size (microns). The x-axis represents median particle sizes in microns, ranging from 10 to 1000. The y-axis represents the mass fraction, ranging from 0 to 1.0. The plot displays several curves, with a red curve at the top and several blue curves below it. All curves show a sharp increase in mass fraction as particle size increases, particularly above 1000 microns.



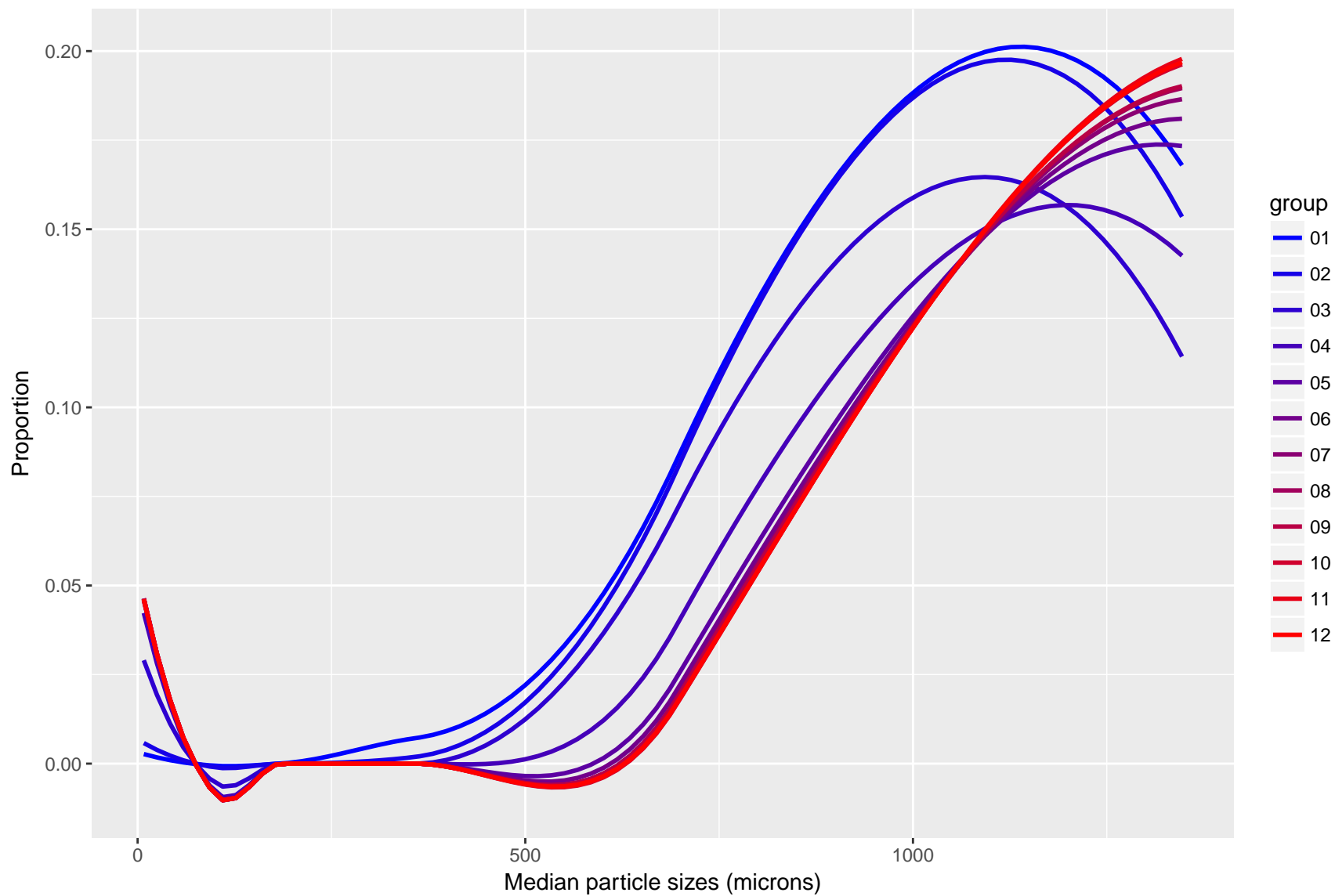
Density Curve, unsmoothed



Density Curve, smoothed (LOESS local regression)



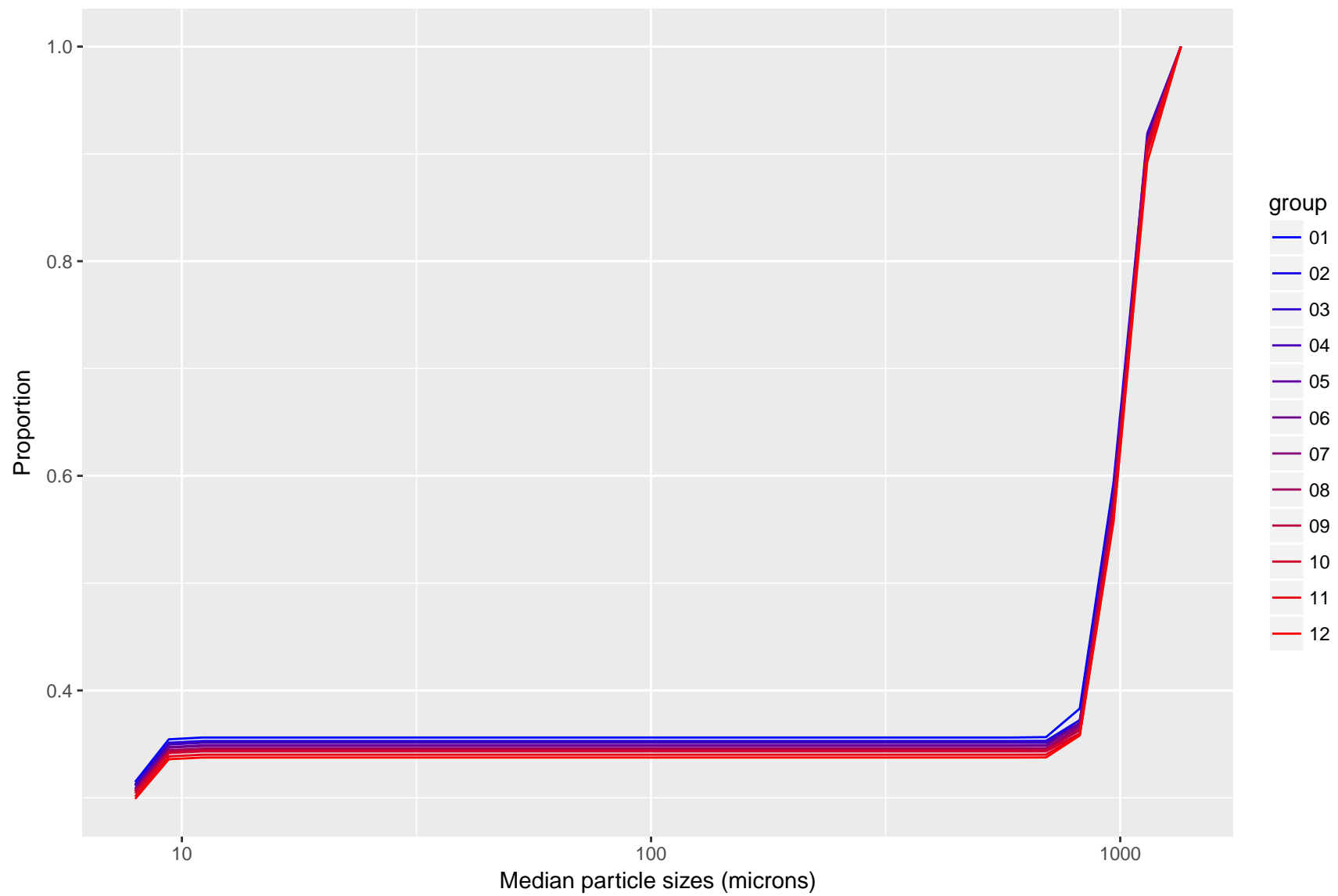
Density Curve, normalized and smoothed (LOESS local regression)



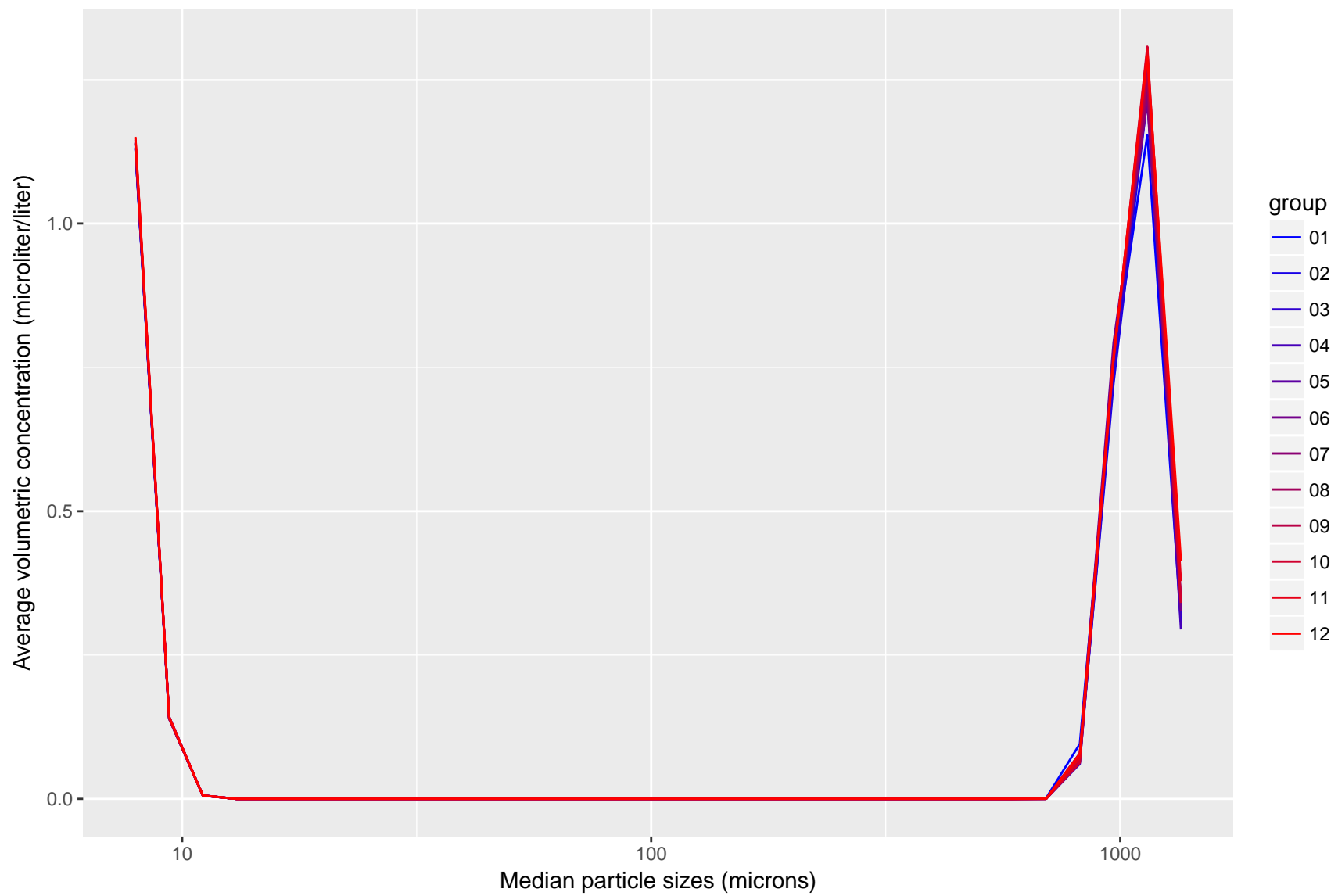
Run 2 (2 hours)

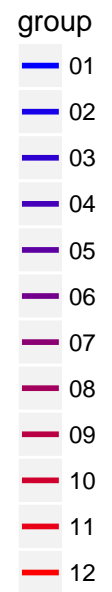
The groups are 10-minute intervals for data aggregation. For example, group 1 is the first 10 minutes in the data collection and group 12 is the final 10 minutes. Particle concentration is averaged within groups for the plots.

Cumulative Density Curve



Density Curve, unsmoothed





Density Curve, normalized and smoothed (LOESS local regression)

