**Supplemental Information**

**Miniature Differential Mobility Analyzer for Compact Field-Portable Spectrometers**

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Submitted to the Aerosol Science & Technology

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The laminar sheath flow is uniformly distributed in the azimuthal direction

Figure S1. Visualization of laminar sheath flow in DMA

The laminar sheath flow is uniformly distributed in the azimuthal direction

A continuous circumferential slit

MonodisperseAerosol out

18 evenly distributed small holes (diameter of 0.794 mm or 1/32”)

MonodisperseAerosol out

Figure S2. Aerosol exit flow channels in the inner rod of the mDMA.