**Supplemental Information**

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

**Chaolong Qi and Pramod Kulkarni\***

Centers for Disease Control and Prevention,

National Institute for Occupational Safety and Health

1090 Tusculum Ave, MS: R7

Cincinnati, OH, 45226

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\* Corresponding Author: Pramod Kulkarni; Phone: (513) 841-4300, fax: (513) 841-4545, email: PSKulkarni@cdc.gov

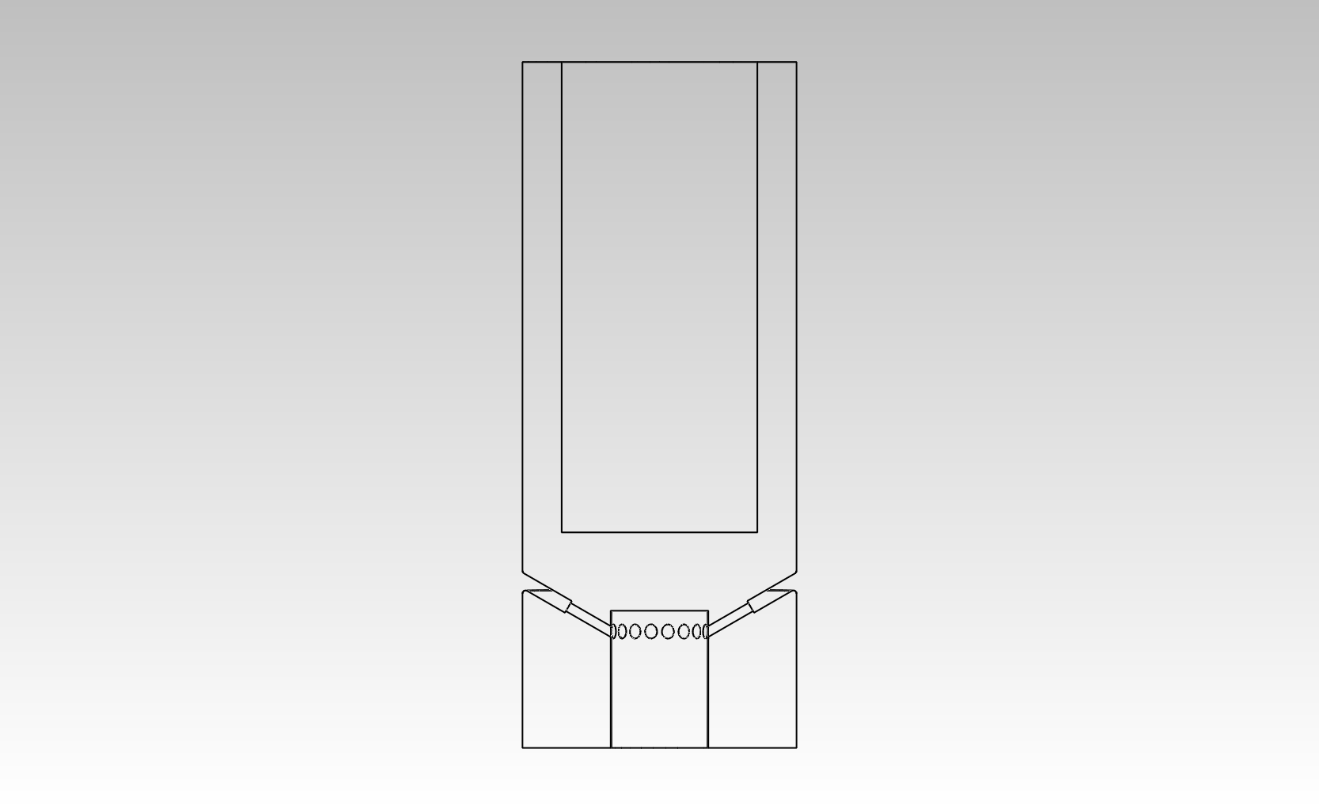
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The laminar sheath flow is uniformly distributed in the azimuthal direction

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.