

Supporting Information

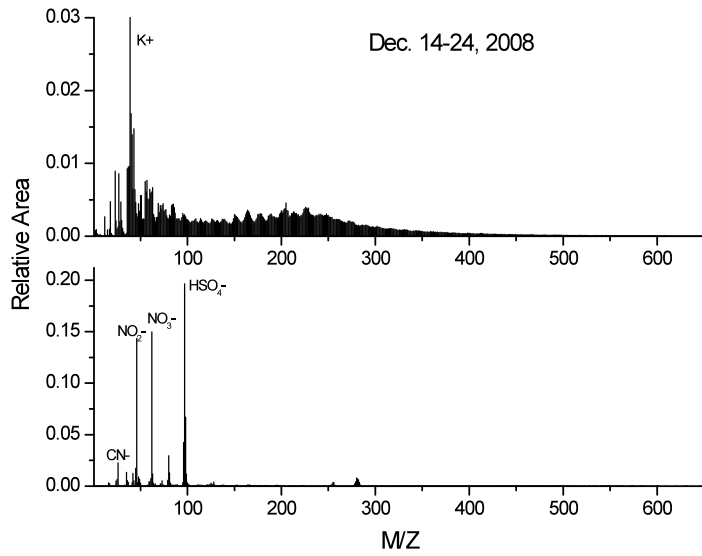
Figure S1. The average mass spectra of particles containing high- M_w species obtained in a) Dec. 14-24, 2008 and b) March 16-26, 2009.

Figure S2. Hourly-averaged relative peak area of C_3N^- (m/z 50) versus CN^- (m/z 26).

Figure S3. Comparison of UPLC/(+)ESI-TOFMS base peak ion chromatograms (BPCs) obtained for a typical Shanghai fine aerosol sample, a blank film, and the solvent used to reconstitute dried aerosol extracts. Comparison of these BPCs allow for the identification of organic constituents solely due to the aerosol samples collected from Shanghai. The nominal masses observed for each nitrogen-containing organic constituent are highlighted in green to denote that these masses (or species) are due to the Shanghai fine aerosol. The accurate mass data for these species are detailed in Table 1. Those nominal masses highlighted in black are due to either the solvent or the blank films used to collect the fine aerosol samples. The numbers above all the nominal masses are the retention times. All BPCs are plotted on the same absolute scale.

Figure S1.

a)



b)

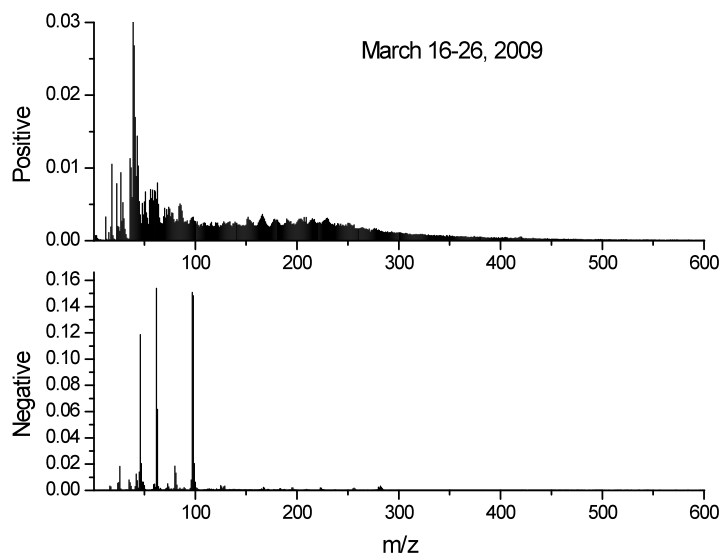
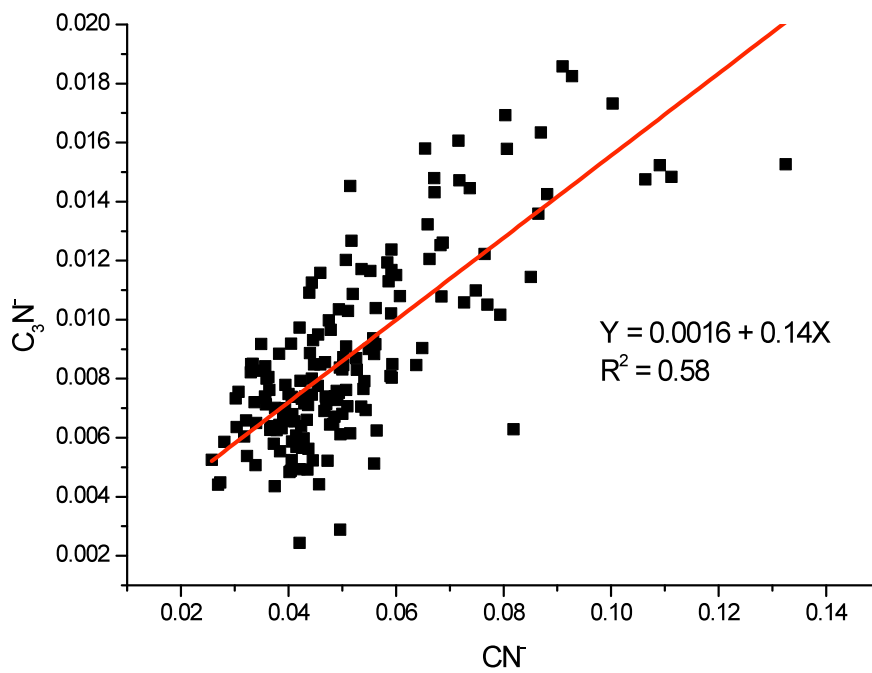


Figure S2.



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Figure S3.

