Supplement of

Measurement report: Chemical characteristics of PM_{2.5} during typical biomass burning

season at an agricultural site of the North China Plain

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Figure S1. Location of Gucheng measurement station (red star) and the surrounding provinces.

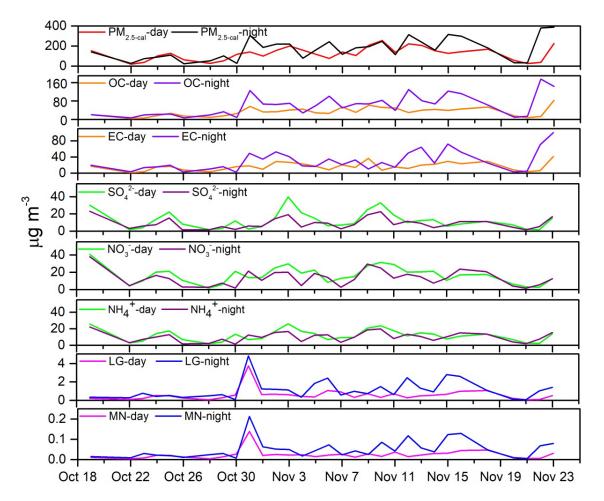


Figure S2. Time-series variation obtained for $PM_{2.5-cal}$ and its major components (OC, EC, SO_4^{2-} , NO_3^- and NH_4^+), biomass burning tracers (LG and MN) during daytime and nighttime at GC site during the sampling period from19 Oct to 23 Nov 2016.

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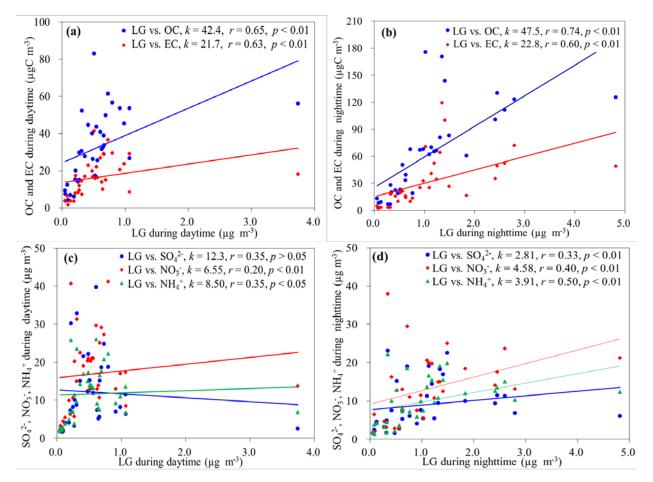


Figure S3. Correlations between LG and OC as well as EC during (a) daytime and (b) nighttime, and scatter plot of LG versus SNA (i.e., $SO_4^{2^-}$, NO_3^{-} and NH_4^{+}) during (c) daytime and (d) nighttime.

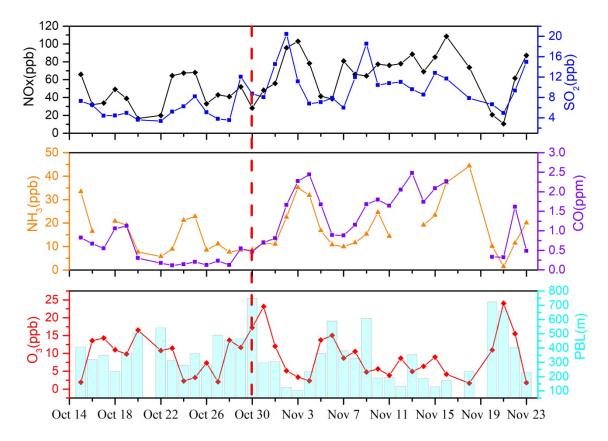


Figure S4. Time-series variation obtained for reactive gases and PBL at GC site during the observation period from15 Oct to 23 Nov 2016.

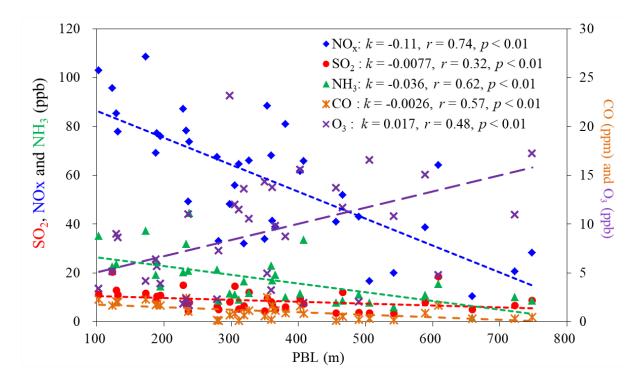


Figure S5. Relationships between daily average PBL and gases at GC site during the observation period.