Supplement of

Organosulfates in atmospheric aerosol: synthesis and quantitative analysis of PM$_{2.5}$ from Xi’an, northwestern China

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The $^1$H NMR and $^{13}$C NMR spectra of synthesized organosulfate standards are shown in Figure S1-S8 below. These $^1$H NMR and $^{13}$C NMR spectra were recorded on a Bruker Advance-III 400 MHz spectrometer at 400 and 100 MHz, respectively using trimethylsilane (TMS) as an internal standard.

Figure S1. $^1$H NMR spectrum of potassium phenyl sulfate in D$_2$O.

Figure S2. $^{13}$C NMR spectrum of potassium phenyl sulfate in D$_2$O.
Figure S3. $^1$H NMR spectrum of potassium benzyl sulfate in DMSO-$d_6$.

Figure S4. $^{13}$C NMR spectrum of potassium benzyl sulfate in DMSO-$d_6$. 
Figure S5. $^1$H NMR spectrum of potassium hydroxyacetone sulfate in DMSO-$d_6$.

Figure S6. $^{13}$C NMR spectrum of potassium hydroxyacetone sulfate in DMSO-$d_6$. 
Figure S7. $^1$H NMR spectrum of potassium glycolic acid sulfate in DMSO-$d_6$.

Figure S8. $^{13}$C NMR spectrum of potassium glycolic acid sulfate in D$_2$O.