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*Supplement of*

**Molecular distribution and compound-specific stable carbon isotopic composition of dicarboxylic acids, oxocarboxylic acids and  $\alpha$ -dicarbonyls in PM<sub>2.5</sub> from Beijing, China**

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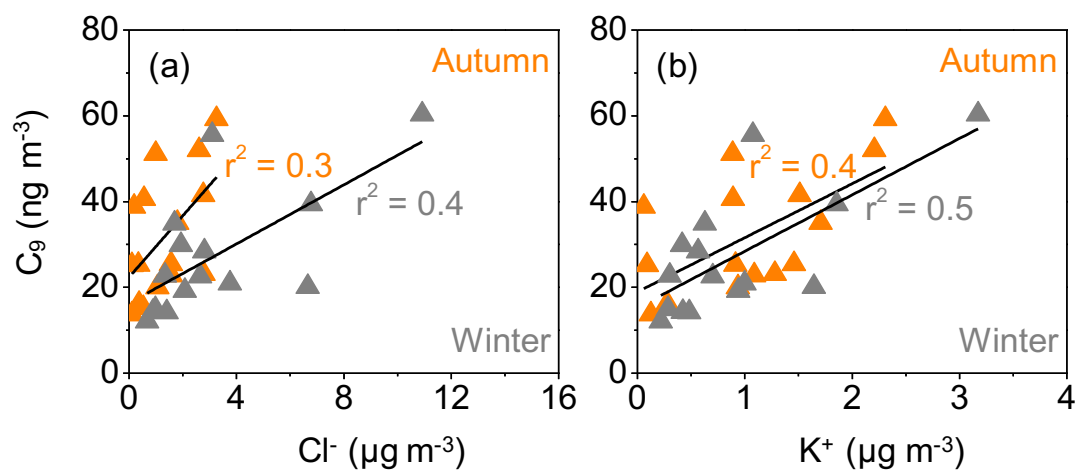


Figure S1. Relations between  $C_9$  and  $Cl^-$ ,  $C_9$  and  $K^+$  concentrations during cold seasons.

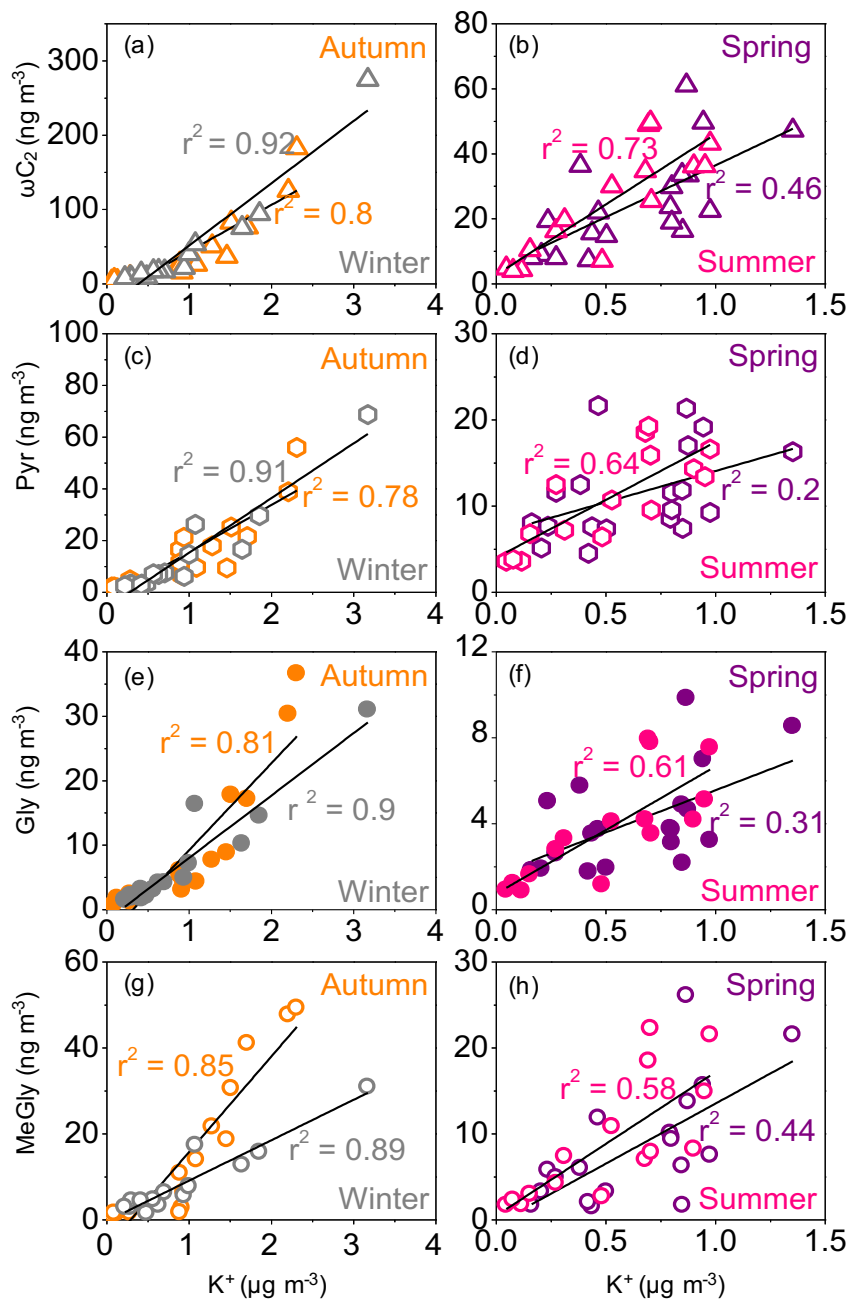


Figure S2. Seasonal relations between  $\omega\text{C}_2$ , Pyr, Gly, MeGly and  $\text{K}^+$  concentrations.

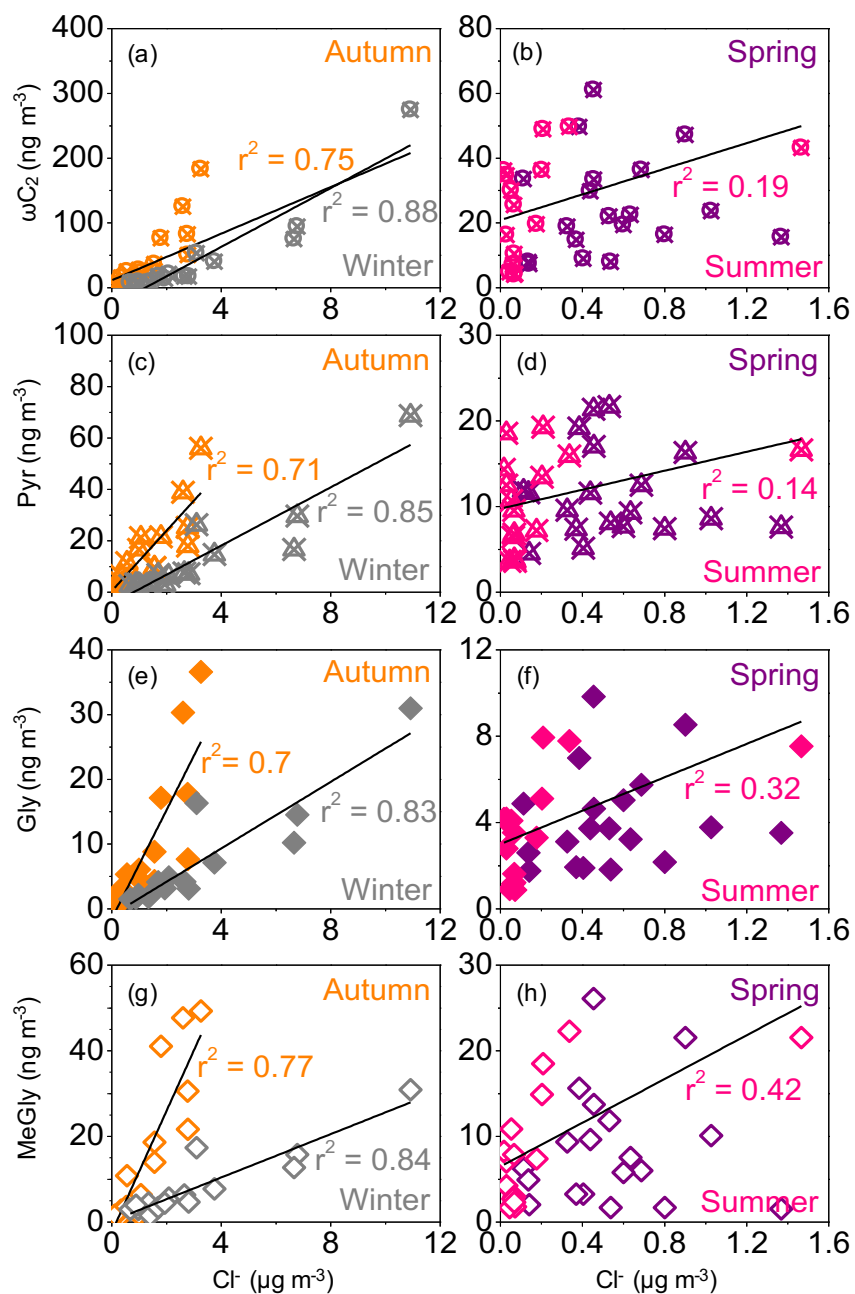


Figure S3. Seasonal relations between  $\omega\text{C}_2$ , Pyr, Gly, MeGly and  $\text{Cl}^-$  concentrations.

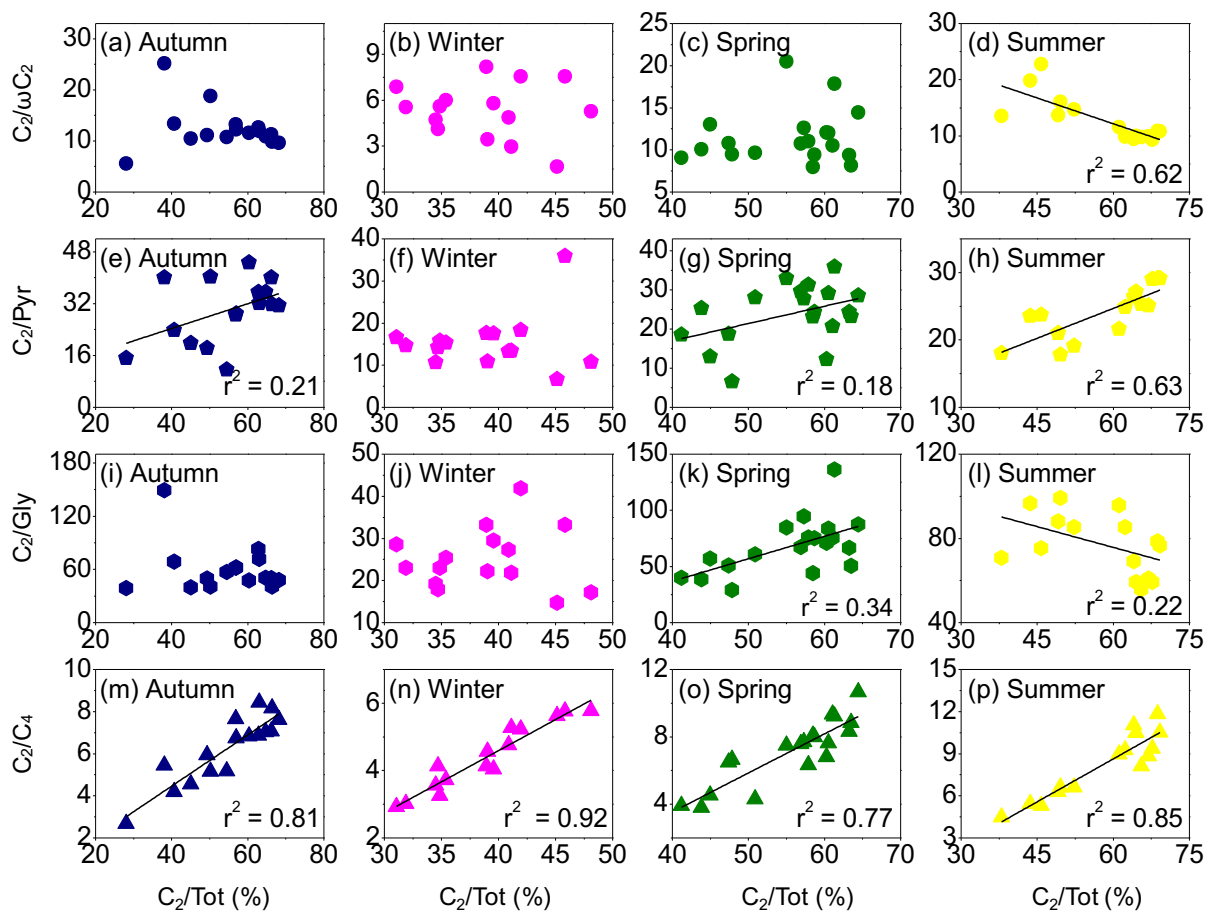


Figure S4. Seasonal relations between  $C_2/\omega C_2$ ,  $C_2/\text{Pyr}$ ,  $C_2/\text{Gly}$ ,  $C_2/C_4$  and  $C_2/\text{total diacids (\%)}$  concentration ratios.