1	Supplementary material				
2	Biomass burning impact on PM <sub>2.5</sub> over the southeastern				
3	U.S. during 2007: Integrating chemically speciated FRM				
4	filter measurements, MODIS fire counts and PMF analysis				
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14	Table 1S. Seasonal and annual source contributions of each PMF factor to $PM_{2.5}$ mass (% of				
15	PM <sub>2.5</sub> mass) based on FRM and Speciation datasets. Winter (J, F, D), Spring (M, A, M),				
16	Summer (J, J, A) and Fall (S, O, N).				
17					
18	Figure 1S. Composition profiles (% of total of each species) for the five factors resolved by				
19	PMF based on FRM and Speciation datasets for the whole year (2007) at 7 EPA (urban)				
20	FRM/Speciation sites (left panel), and the time series of relative contribution of each factor				
21	(right panel). Factors 1 through 4 are similar to those in Fig. 9. Factor 5 has characteristics of				
22	a mobile source emission profile.				
23					
24	Figure 2S. PMF results based on FRM and Speciation datasets showing annually averaged				
25	source contributions of the five factors to $PM_{2.5}$ mass, WSOC, levoglucosan, and water-				
26	soluble $K^+$ for 7 EPA (urban) FRM/Speciation sites.				

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	Winter	Spring	Summer	Fall	Annual
Biomass Burning (F1)	29	15	1	8	13
Refractory (F2)	11	15	14	14	13
Secondary Light Abs WSOC (F3)	10	22	24	17	20
Secondary Sulfate/WSOC (F4)	29	34	47	45	39
Mobile source emission (F5)	9	9	7	9	8
Residual	12	5	7	7	7

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