

1 **SUPPLEMENTARY INFORMATION FOR:**

2 **Diurnal variations of ambient particulate wood burning**
3 **emissions and their contribution to the concentration of**
4 **Polycyclic Aromatic Hydrocarbons (PAHs) in Seiffen,**
5 **Germany**

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8 **Gnauk¹, A. Hausmann², G. Löschau², A. Wiedensohler¹ and H. Herrmann¹**

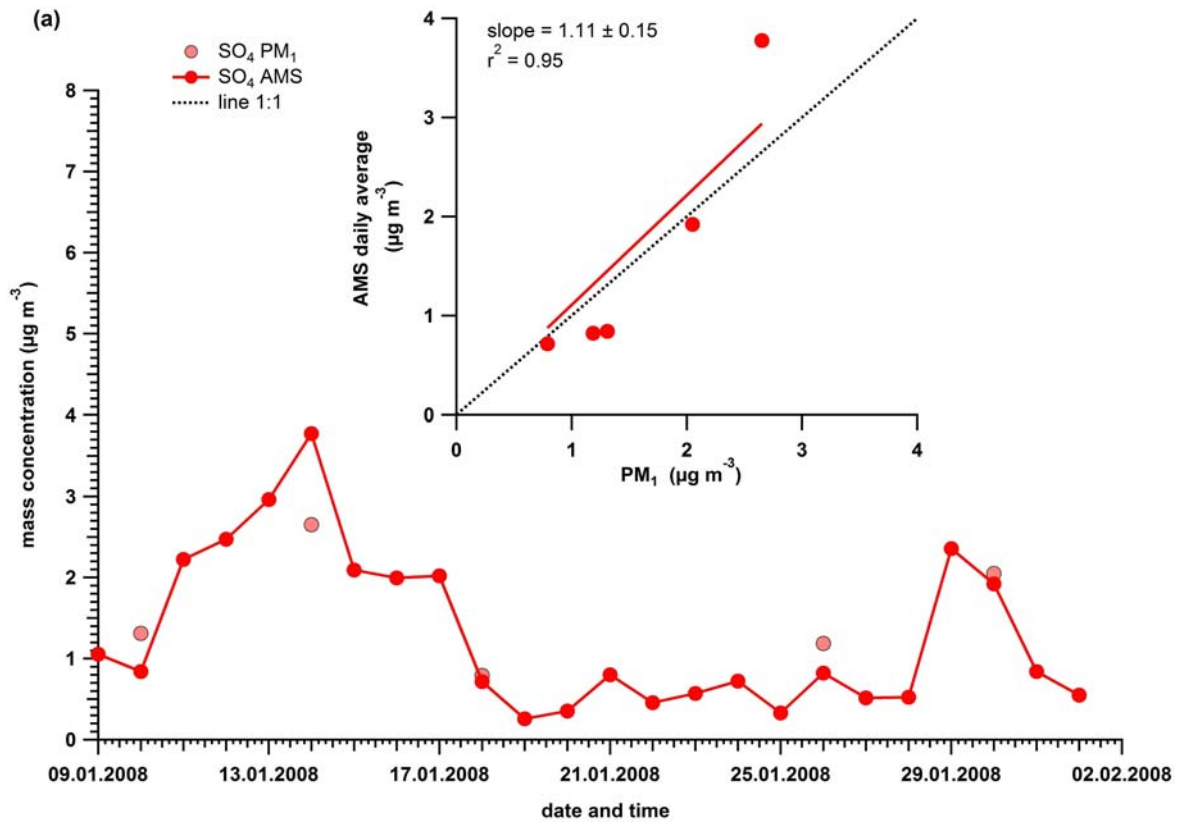
9 [1]{Leibniz-Institut für Troposphärenforschung, Permoserstr. 15, 04318 Leipzig, Germany}

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11 01311 Dresden, Germany}

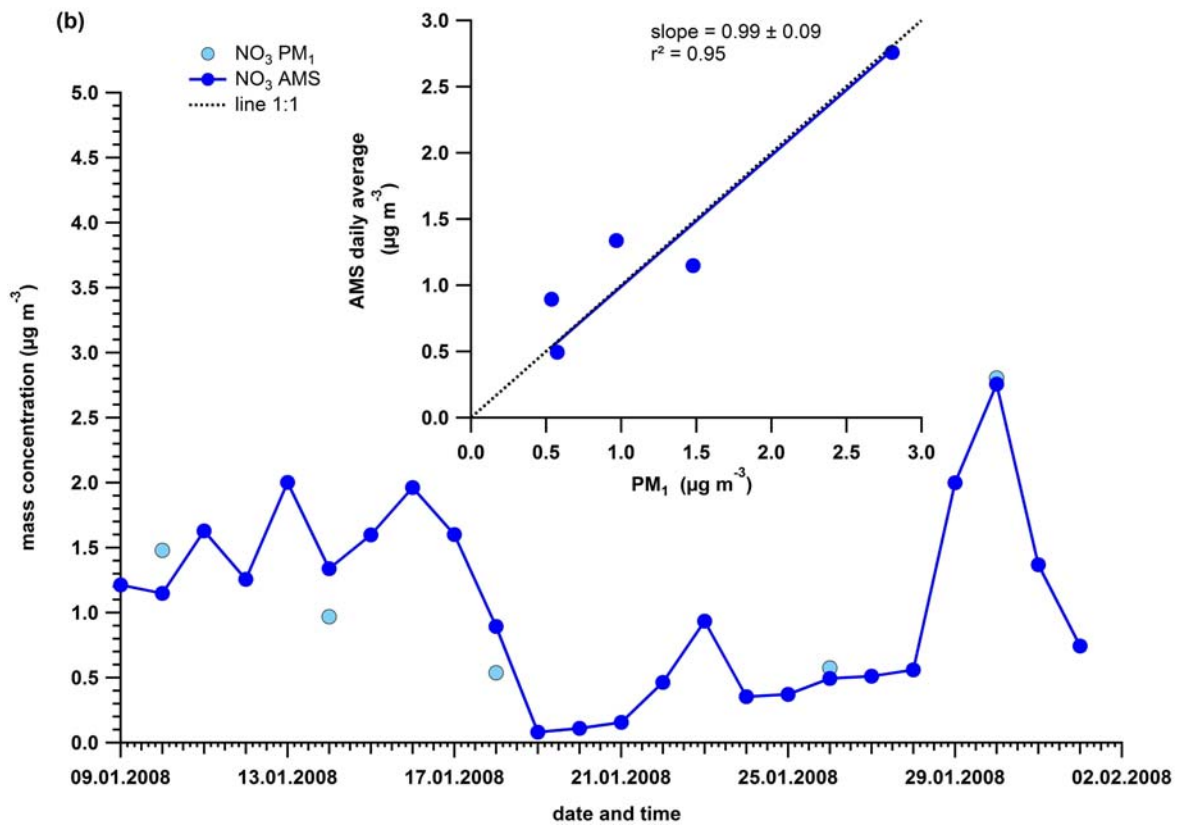
12 Correspondence to: H. Herrmann (herrmann@tropos.de)

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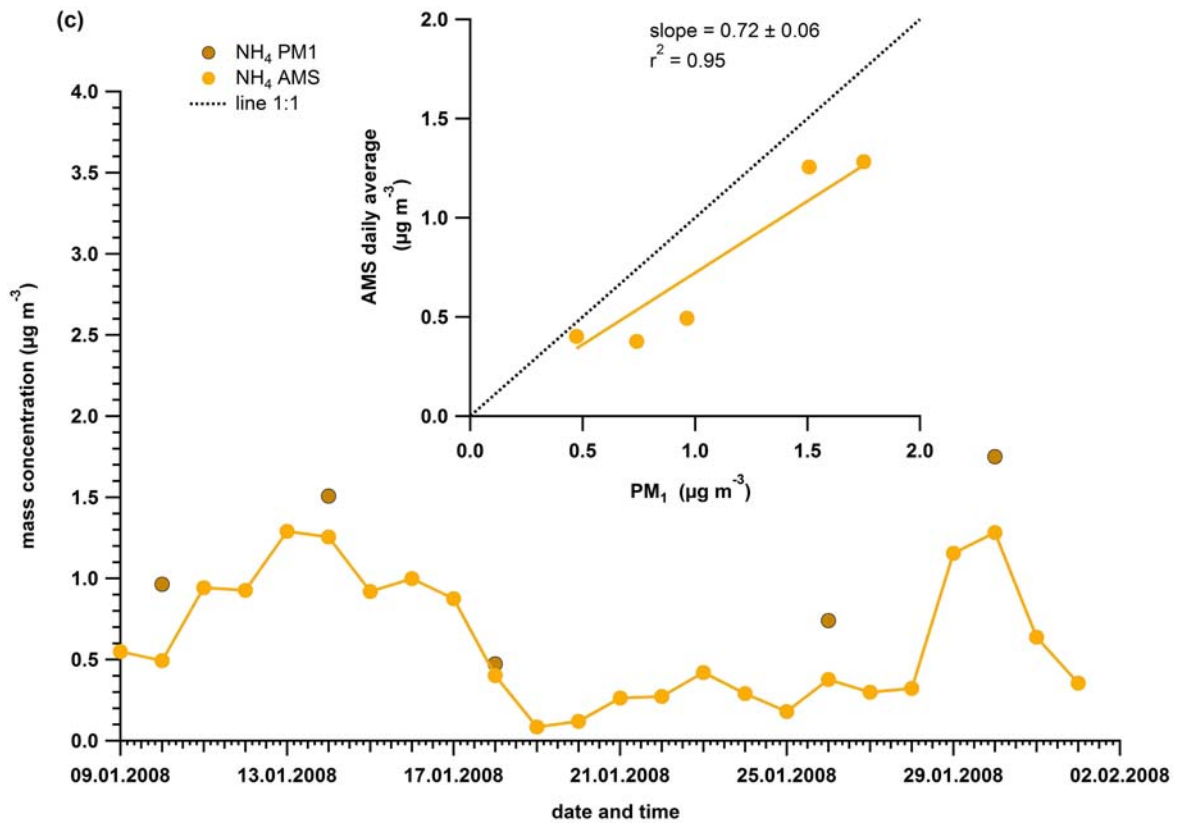
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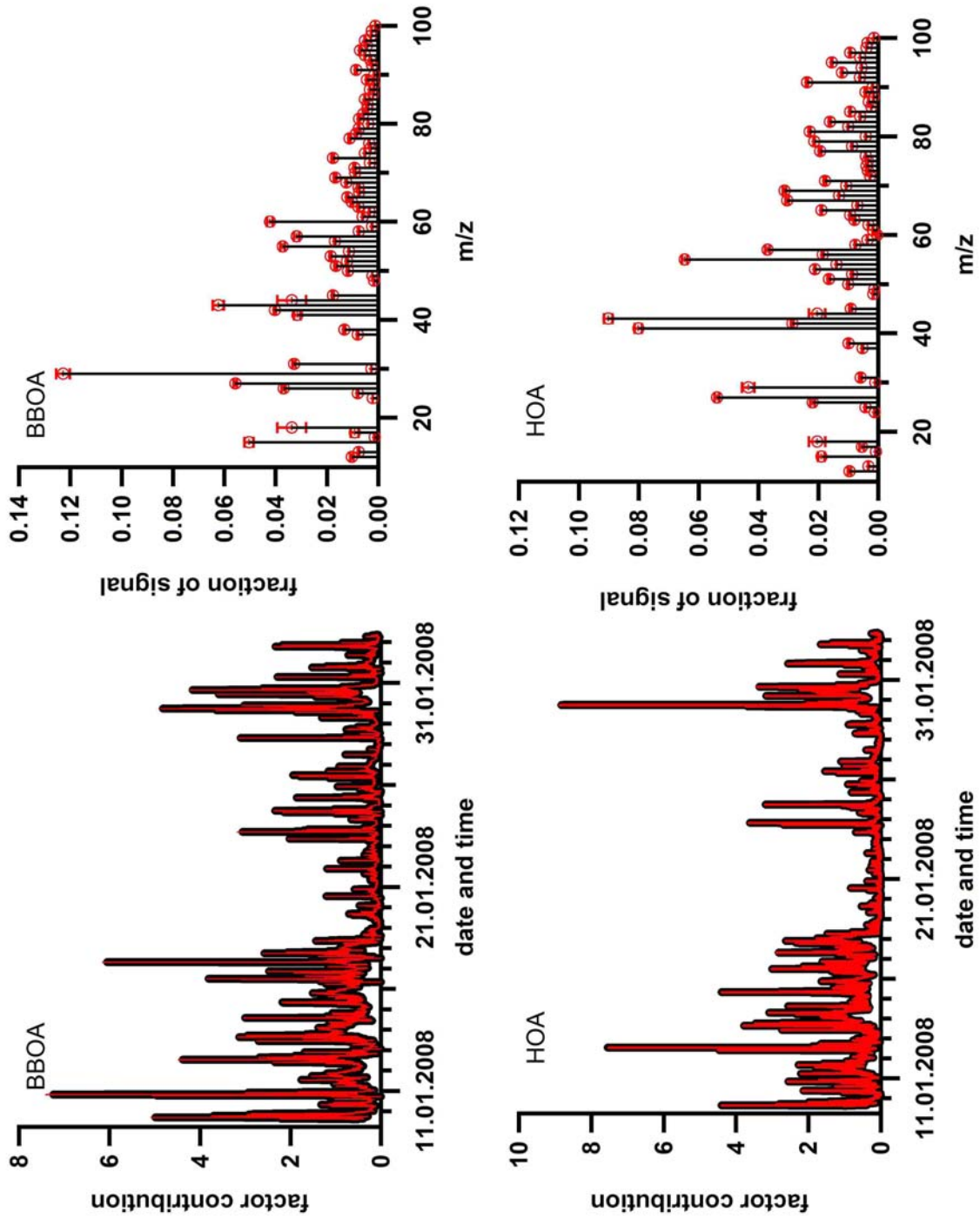
3 Figure SI-1. Comparison of the AMS daily average concentration to PM₁ filter samples for
 4 sulfate (a), nitrate (b) and ammonium (c) assuming an AMS CE of 1.

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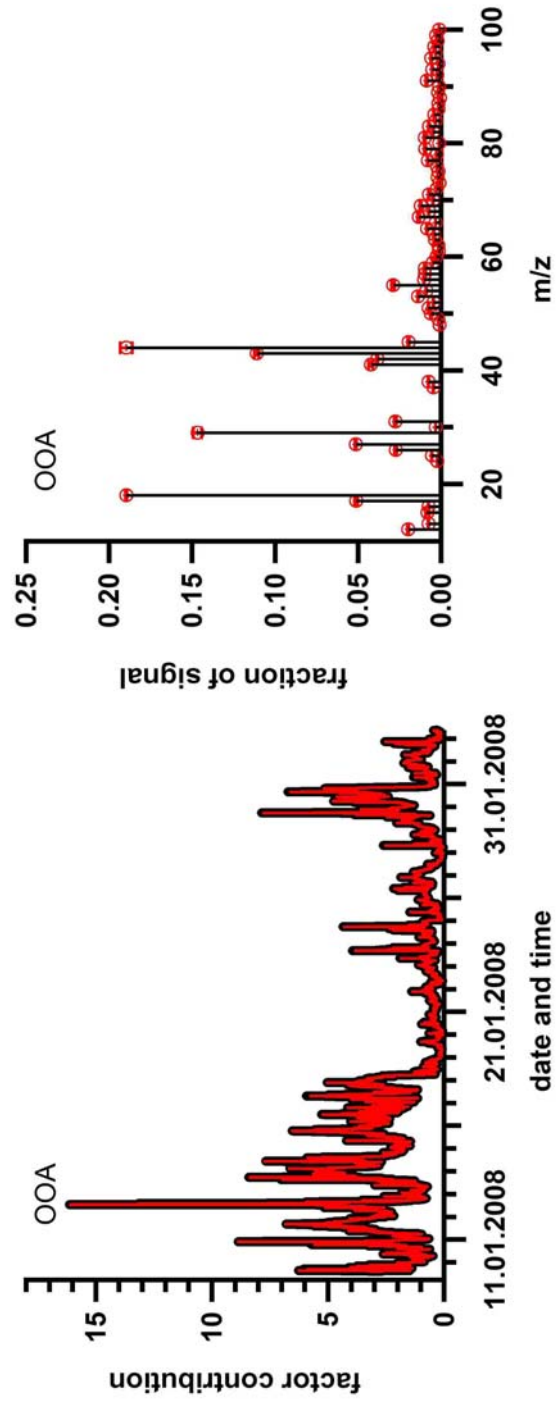
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Figure SI-1. (continued)

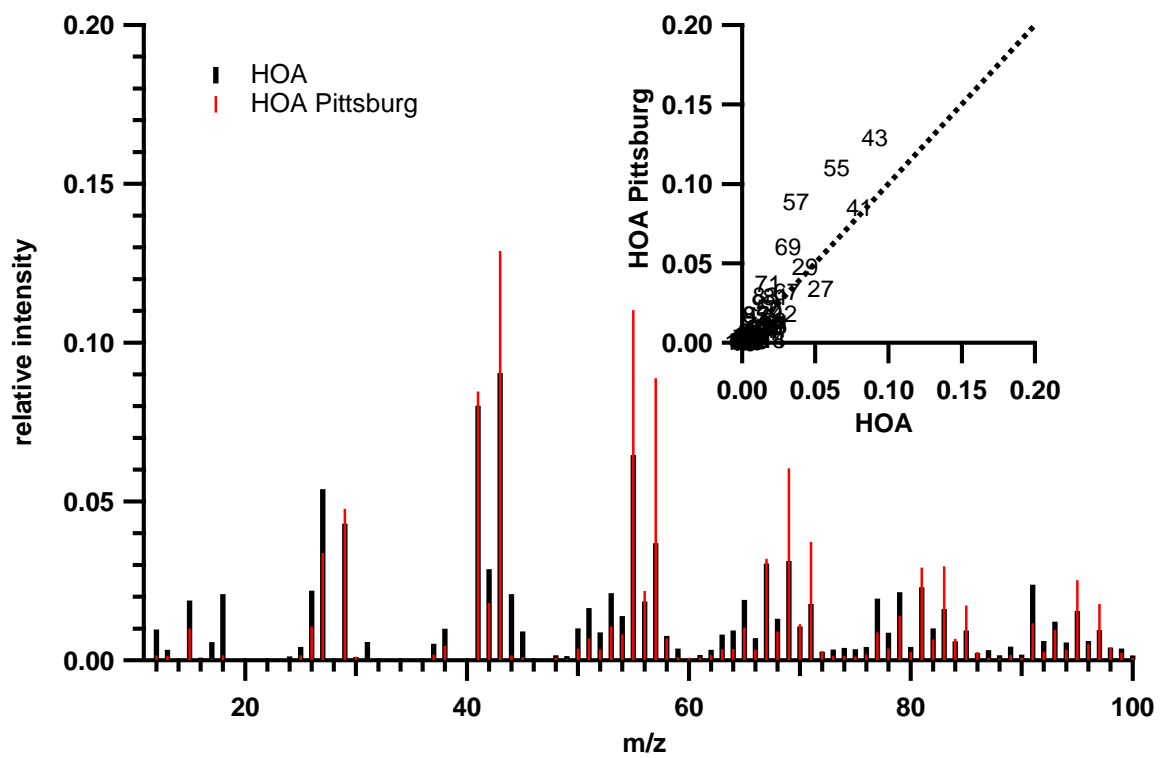
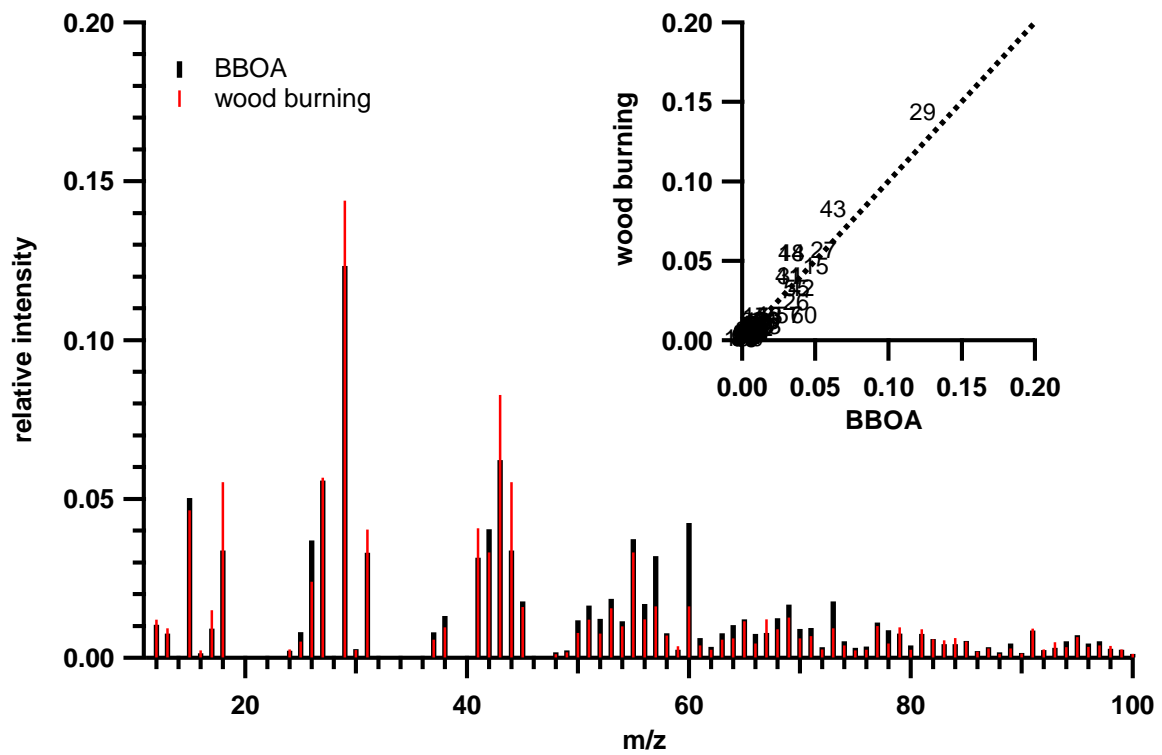


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Figure SI-2. Results from bootstrapping analysis. Average (black) and standard error (red) on mass spectra and time series are shown for each factor.

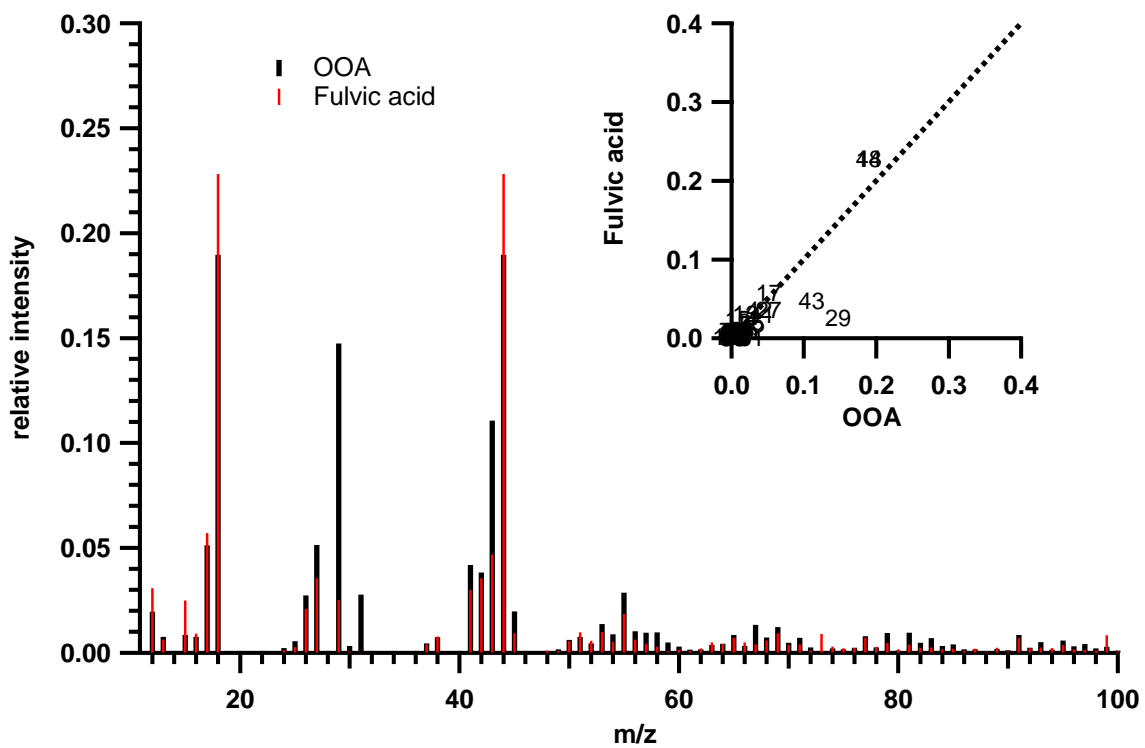
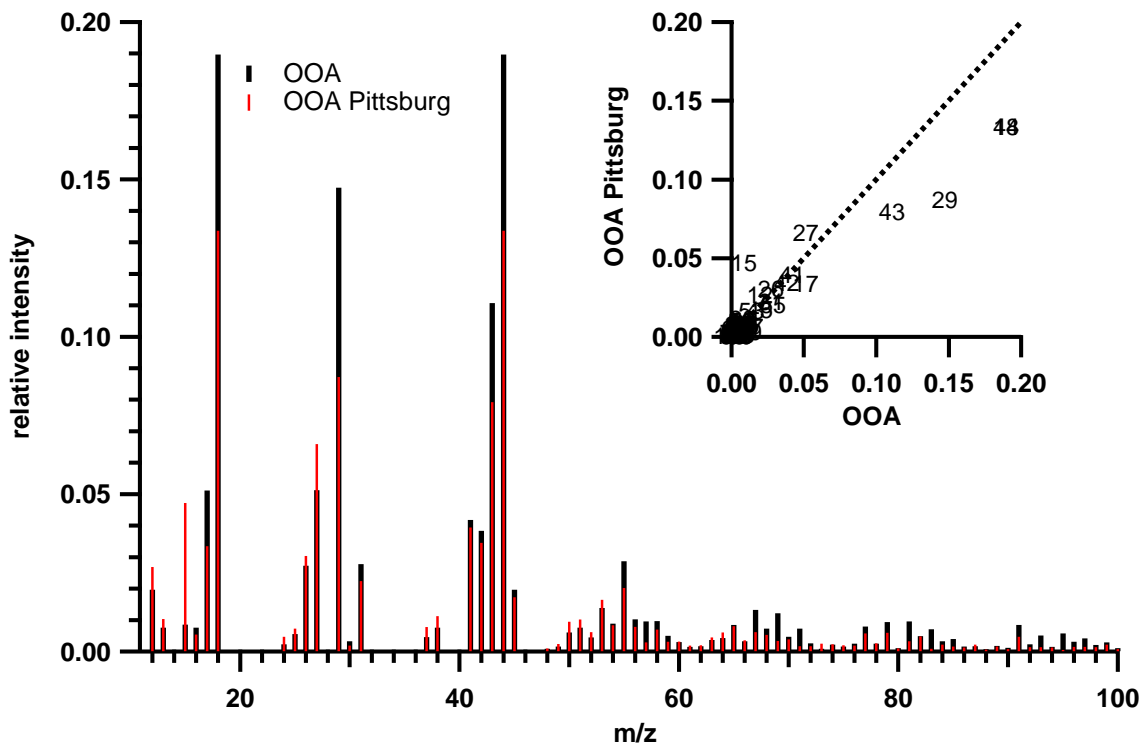


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 2 Figure SI-2. (continued)



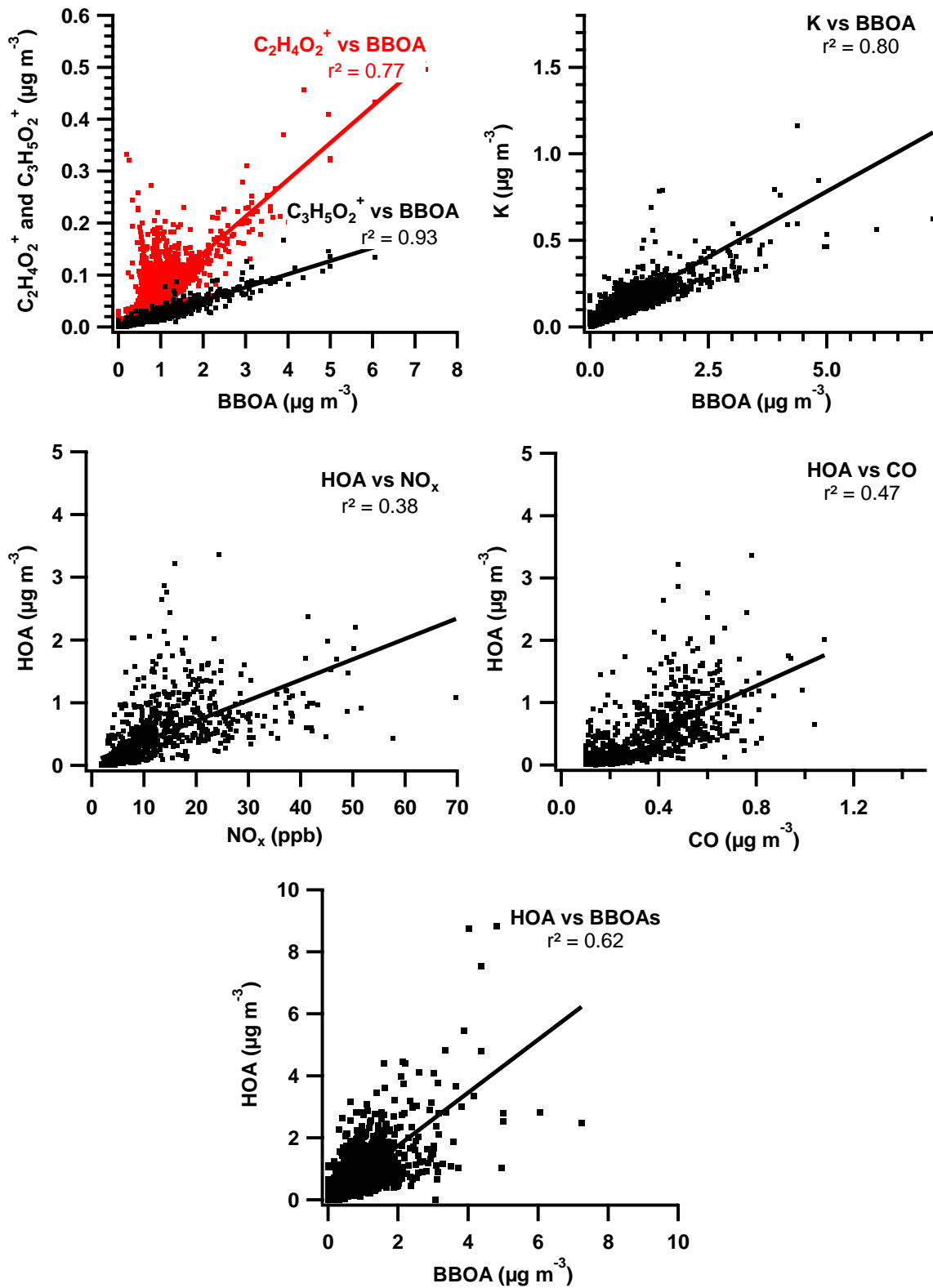
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Figure SI-3. Factor mass spectra and their reference mass spectra.



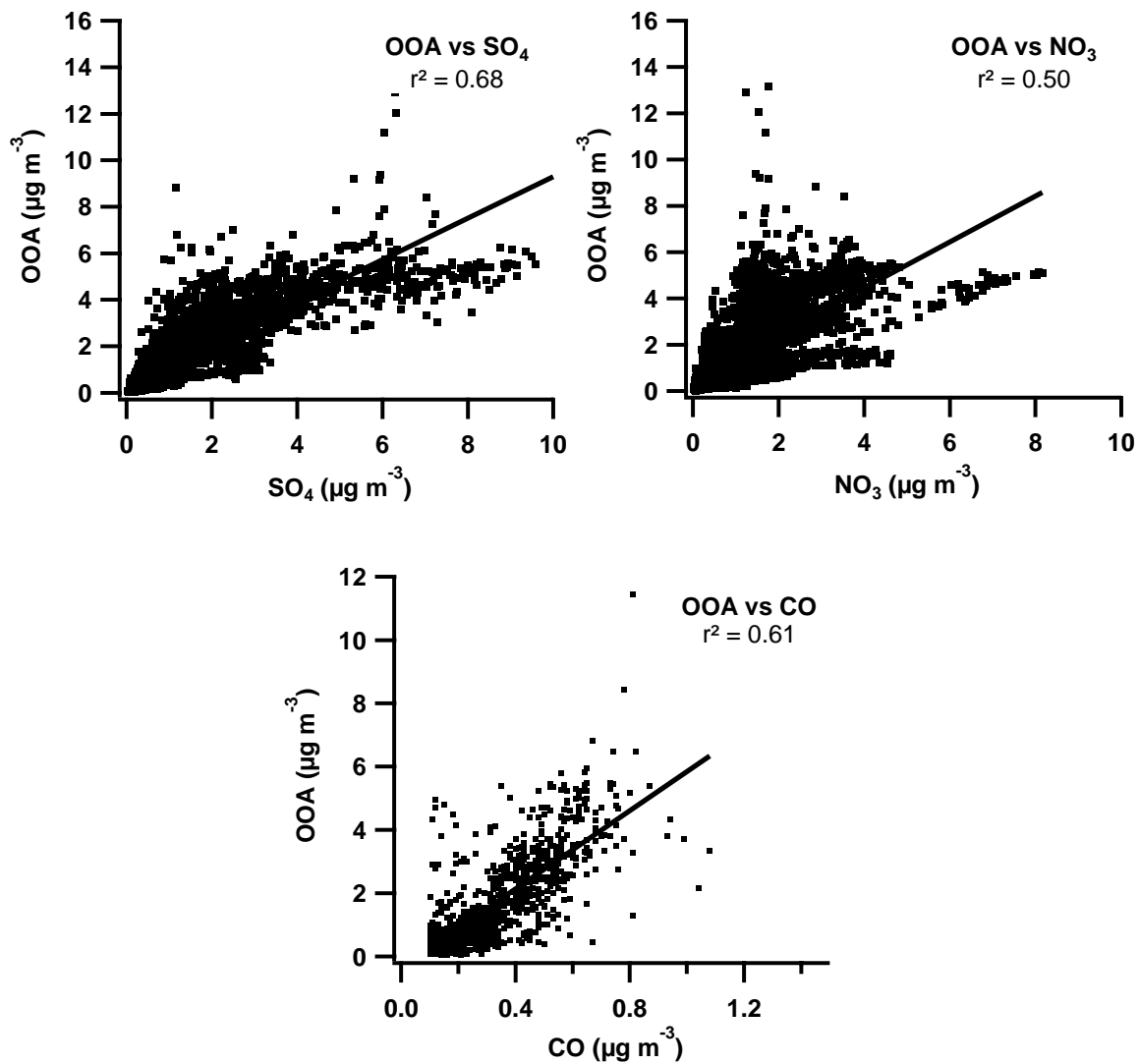
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2 Figure SI-3. (continued)



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Figure SI-4. Correlation plots between PMF factors (BBOA and HOA) and different tracers.



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Figure SI-5. Correlation plots between PMF factors OOA and different tracers.