Supporting information

Molecular composition of biogenic secondary aerosols using ultrahigh resolution mass spectrometry: comparing laboratory and field studies

Ivan Kourtchev^{1*}, Stephen Fuller¹, Chiara Giorio¹, Robert M. Healy², Eoin Wilson², Ian O'Connor², John Wenger², Matthew McLeod¹, Juho Aalto^{3,4,5}, Taina M. Ruuskanen⁵, Willy Maenhaut^{6,7}, Rod Jones¹, Dean S. Venables², John Sodeau², Markku Kulmala⁵, Markus Kalberer^{1*}

¹Department of Chemistry, University of Cambridge, Cambridge, CB2 1EW, UK

²Department of Chemistry and Environmental Research Institute, University College

Cork, Cork, Ireland

³Department of Forest Sciences, University of Helsinki, P.O.Box 27, Helsinki, Finland

⁴Hyytiälä Forestry Field Station, Hyytiäläntie 124, Korkeakoski, FI 35500, Finland

⁵Department of Physics, University of Helsinki, P.O. Box 64, Helsinki, Finland

⁶Department of Analytical Chemistry, Ghent University, Krijgslaan 281, S12, BE-9000

Ghent, Belgium

⁷Department of Pharmaceutical Sciences, University of Antwerp, Universiteitsplein 1,

BE-2610 Antwerp, Belgium

2 pages **1 figure (Figure S1)**



Figure S1. Direct infusion negative-nanoESI-Orbitrap mass spectra obtained for laboratory generated sample from ozionolysis of α -pinene: (a) control sample (b) extract mixed with 30% aqueous solution of ammonium sulphate. Abbreviation: NL normalization level.