

In December 2005, the SPASS (Single Particle Analysis and Sizing System), developed at JRC-Ispra, was intercompared with the commercially available ATOFMS (TSI Inc.) particle mass spectrometer in a chamber experiment carried out at the JRC in Ispra (Italy): Both instruments were applied to aerosol systems generated in a ~2000 L Teflon-bag chamber. In this study, carried out in a collaboration between the University of Birmingham (UK) and the JRC, several types of typical atmospheric secondary aerosol were generated by chemical reactions in the chamber (oxidation of hydrocarbons as well as organic sulphur-, nitrogen and iodine-compounds). The experiment gave usual information about the typical mass spectra obtained from these systems and about how differences in instrumental setup can influence the measured data.

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