

The Chemical Composition of Particles formed by Nucleation in Tecamac, Mexico (T1 site)

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The Thermal Desorption Chemical Ionization Mass Spectrometer (TDCIMS) performed measurements of the chemical composition of the particles during a new particle formation events observed at the T1 surface site during MILAGRO. During particularly strong new particle formation events, nitrate and organics appeared to be the dominant species in nascent particles, while sulfate compounds remained relatively constant. These measurements suggest an important role for organic and nitrogen compounds during the earliest stages of particle formation.