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Molecular composition and volatility of isoprene photochemical oxidation secondary organic aerosol under low- and high-NO_x conditions

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Supporting Information for:

Molecular composition and volatility of isoprene photochemical oxidation secondary organic aerosol under low and high NO_x conditions

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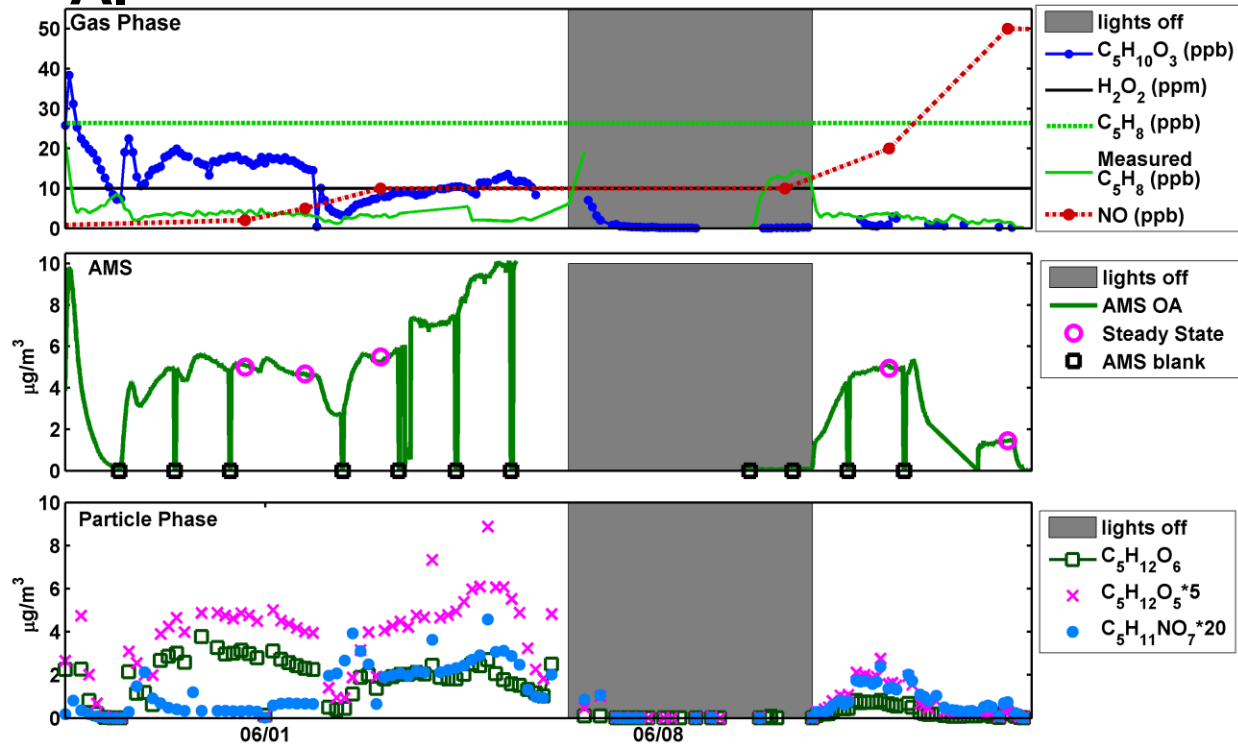
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A. 2014



B. 2015

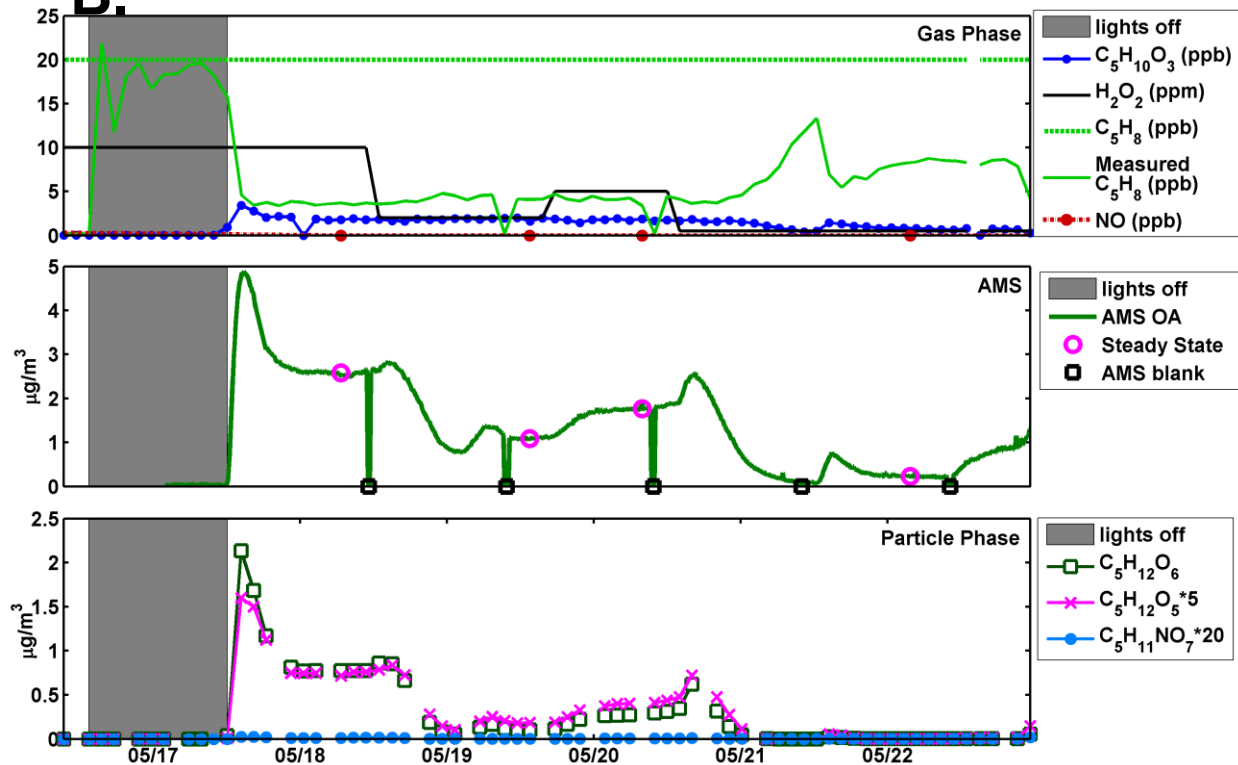


Figure 1. Overview of the 2014 and 2015 measurements taken at PNNL. **A.** Data from the 2014 campaign, **B.** data from the 2015 campaign. The top rows show gas-phase compounds measured by the PTR-MS and FIGAERO-CIMS, as well as input concentrations of H₂O₂, NO, and isoprene. Middle rows show the OA as measured by the AMS. Steady state periods are shown within magenta circles, AMS blanks as black squares. Select particle phase species measured by the FIGAERO-CIMS are in the bottom rows. Grey shaded areas in each column indicate when chamber lights were off for chamber cleaning and a dark NO₃ experiment (in 2014) which is not discussed here. Note that the axis limits are not the same due to a wide range in concentrations across years, while C₅H₁₂O₅ has been enhanced 5x and C₅H₁₁NO₇ has been enhanced 20x in the bottom rows to clearly show the behavior of each species on the same axis. This figure has been enlarged from what is in the main text in order to more clearly display detail.