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Supplement of

Airborne measurement of peroxy radicals using chemical amplification coupled with cavity ring-down spectroscopy: the PeRCEAS instrument

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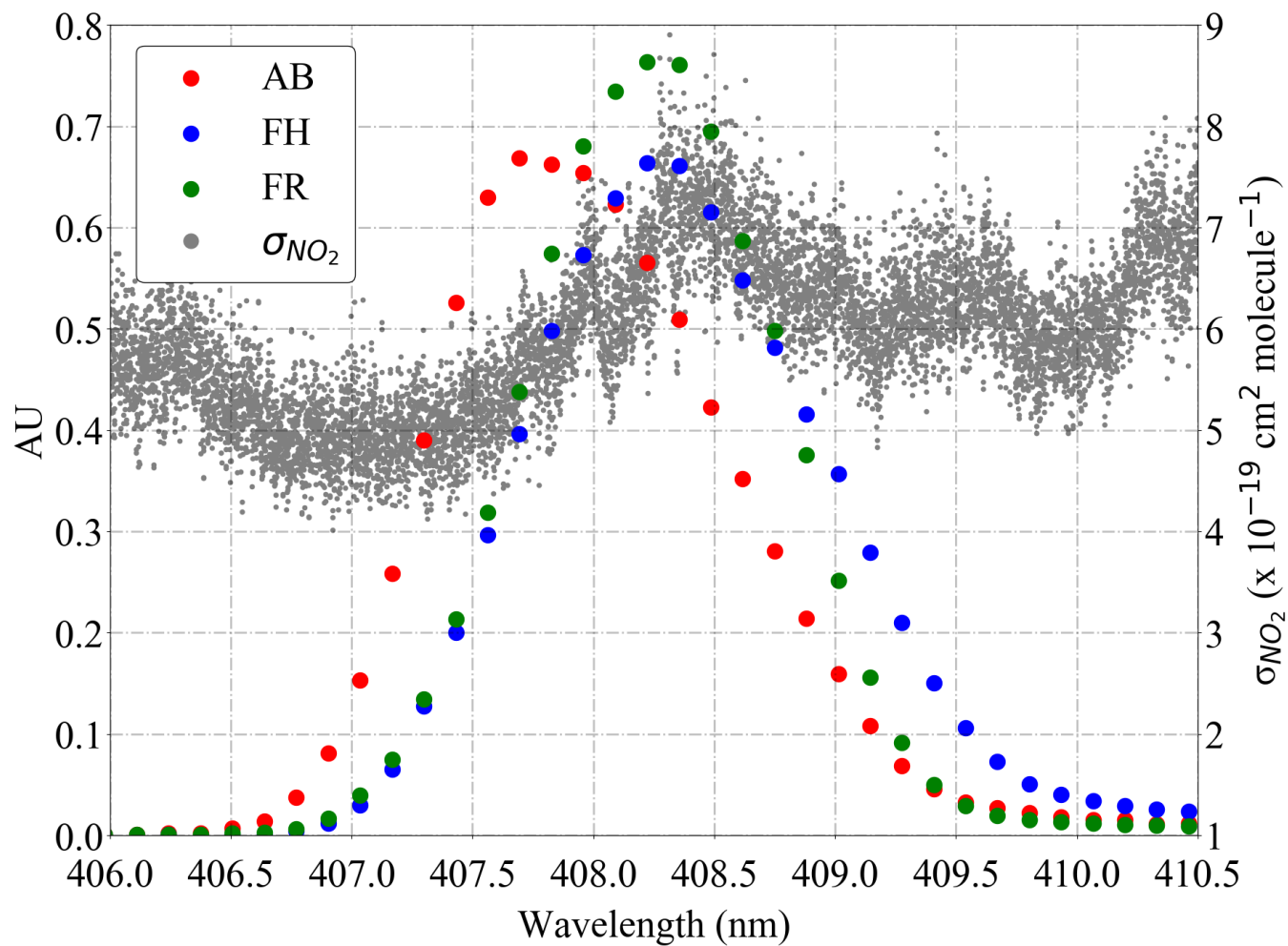


Figure SI-1: Emission spectrum of the lasers used in the PeRCEAS detectors: AB, FH, and FR. The high resolution σ_{NO_2} at 294 K from Vandaele et al (2002) is also depicted for comparison.

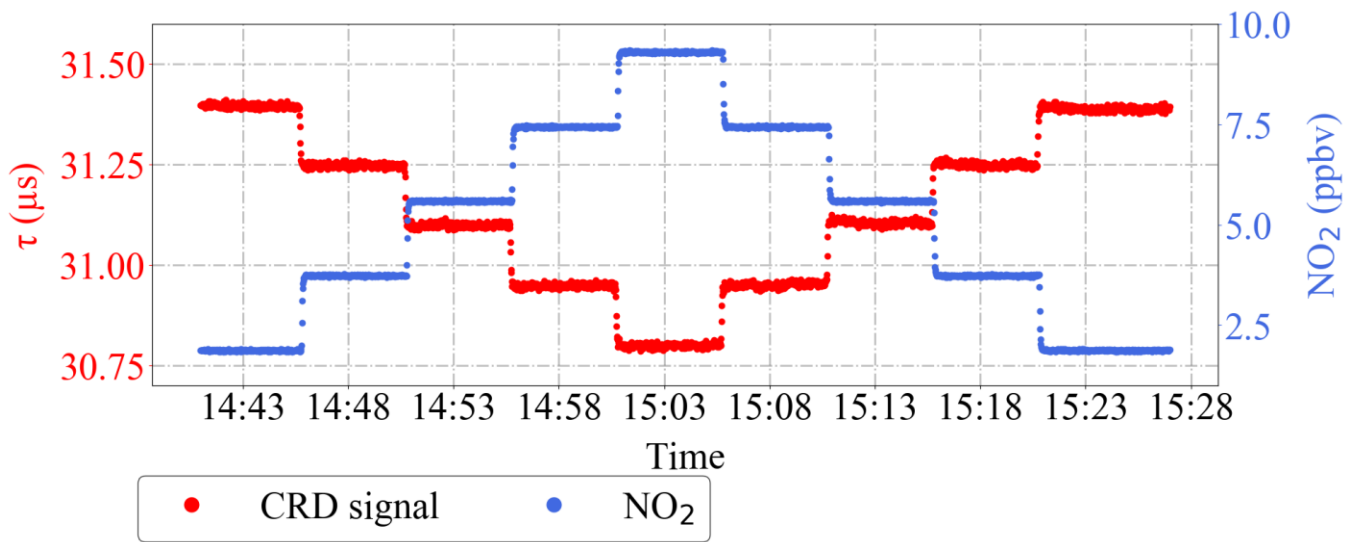


Figure SI-2: PerCEAS measurement of known NO₂ mixing ratios using the FH detector at 200 mbar and 500 ml/min sample flow. The mixing ratios of NO₂ in synthetic air set for the experiment are indicated in blue.