

Supplemental Information for:

Inherent calibration of a blue LED-CE-DOAS instrument to measure iodine oxide, glyoxal, methyl glyoxal, nitrogen dioxide, water vapour and aerosol extinction in open cavity mode

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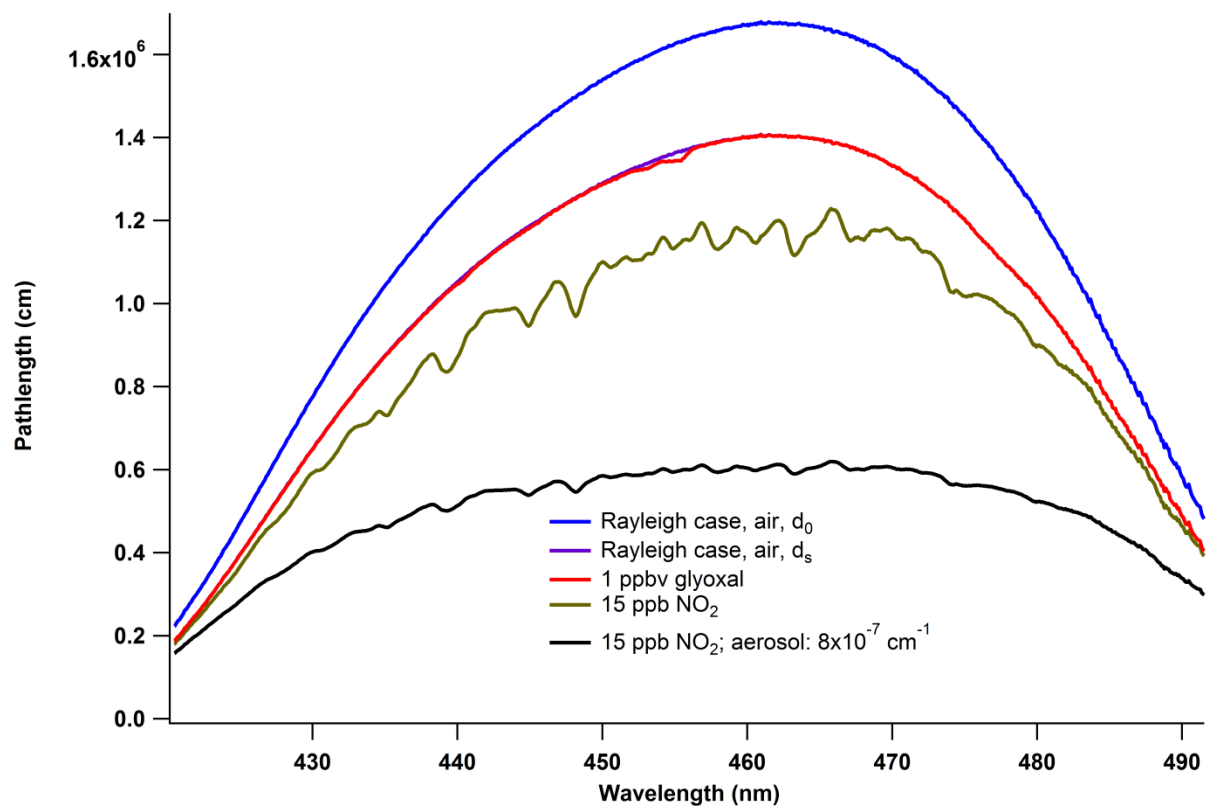


Figure S1. Effective path lengths in the cavity with given amounts of aerosol or trace gases, calculated using equation (1).

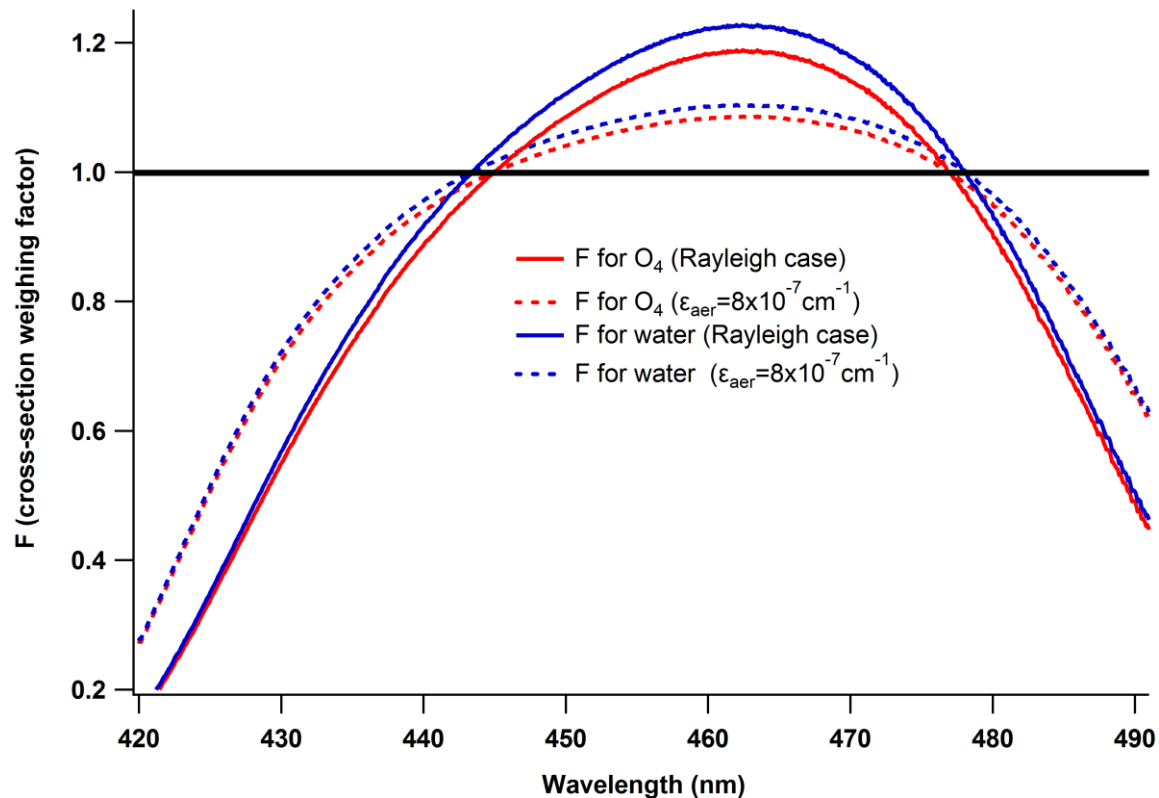


Figure S2. Absorption cross-section spectra weighting factors, F , calculated from equation (6) for the Rayleigh (solid lines) and aerosol cases (dotted lines) normalized at the O_4 wavelength (477nm, red) and the water wavelength (443nm, blue). The differences between the solid and the two dashed lines reflect the uncertainty in our RH measurement.