

The manuscript compares two methods to measure HONO concentration in the atmosphere. Wet denuder-ion chromatography and long-path absorption photometer are widely used worldwide, but the accuracy of the WD/IC method is still a problem. In this paper, the authors developed a method to correct the HONO concentration measured by MARGA and would be useful to evaluate the WD/IC data. This paper is very interesting and maybe publishable, provided that the following issues are adequately addressed.

1. The LOPAP has two channels to measure HONO concentration, and the second channel is used to measure the interference, it would be better to add this information in the manuscript and compare this interference with the MARGA result.
2. The reaction of NO_2 on the sample line and aerosol would generate HONO. The correlation between $\text{HONO}_{\text{lopap}}$ and $\text{HONO}_{\text{marga}}$ with the influence of $\text{PM}_{2.5}$, SO_2 , and NH_3 are discussed. In line 189, the authors conclude that the hydrolysis of NO_2 is not the main source of HONO. So how about the role of relative humidity to this process?
3. In Fig 6b, the definition of PH_2O_2^* s and PNO_2^* s should be given in the manuscript. Fig 6a shows the ration between the different fraction of S(IV), in line 310, the ratio of HSO_3^- would decrease with the increase of pH, but the concentration would increase slightly.
4. The HONO measured by MARGA was significantly improved after the correction, especially in the clean condition. However, in the polluted condition, the correlation between $\text{HONO}_{\text{maga_corr}}$ and $\text{HONO}_{\text{lopap}}$ become worse, so if it is possible to include the RH and particulate matter parameters in the correction formula?

Other minor revision:

Line 63 The citation format should be rewritten.

Line 220 “ Mg^{2+} , Ca^{2+} ” should change to “ Mg^{2+} , Ca^{2+} ”

Line 271 “low PH” should change to “low pH”

Line 345. “ NH_3 concentration” should change to “ NH_3 concentration”