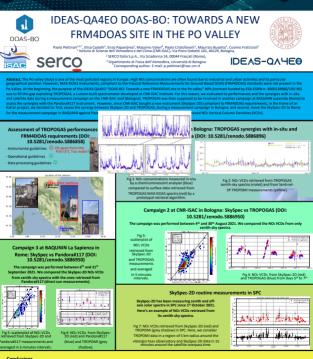
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## Conclusions

1) TROPOGAS provides reliable NO<sub>2</sub> concentrations (see Fig. 1 with respect to the chemiluminescent analyzer) and VCDs (see Fig. 2 with respect to TROPOMI). 3 SkySpec-2D vs TROPDGAS: low bias (0.057x10<sup>2</sup> molec/cm<sup>3</sup>) and high correlation of 0.77. Differences are due to instrumental discrepancies (FOV and integration times). 3) SkySpec-2D vs Pandora#117: higher correlation of 0.9 but also higher bias in absolute value (-0.23x10<sup>16</sup> molec/cm<sup>2</sup>). Not only instrumental differences but also different processing

4) SkySpec-2D and TROPOGAS are now measuring in SPC, in the middle of the Po Valley, and in Bologna, respectively. Since SkySpec spectra are fully compliant to FRM4DOAS requirements, they are routinely provided to the FRM4DOAS community for their central processing.