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Interactive comment on "Intercomparison of MAX-DOAS Vertical Profile Retrieval Algorithms: Studies using Synthetic Data" *by* Udo Frieß et al.

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The thesis Johannes Zielcke (2016), of which our study is certainly not an imitation, shall be cited in a revised version of the manuscript among the numerous other publications that used synthetic measurements for the investigation of inverse models for aerosol and trace gas vertical profiles from MAX-DOAS measurements (e.g., Wagner et al., 2004; Frieß et al., 2006; Hay, 2010; Vlemmix et al., 2011; Yilmaz, 2012; Hartl and Wenig, 2013; Holla, 2013).

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