Comment on egusphere-2022-117
Vasil Simeonov (Referee)

Referee comment on "A model for simultaneous evaluation of NO$_2$, O$_3$, and PM$_{10}$ pollution in urban and rural areas: handling incomplete data sets with multivariate curve resolution analysis" by Eva Gorrochategui et al., EGUsphere, https://doi.org/10.5194/egusphere-2022-117-RC2, 2022

The present study proves convincingly the advantage of the chemometric technique multivariate curve resolution - alternating least squares. The reasons for such an estimations could be summarized as follows:

1. Reliable options for apportionment of pollution sources

2. Realing with four-way constructed data sets

3. Elimination of missing data

The study is performed on a very high theoretical level and, additionally, delivers very useful practical information. The style is very sound, the conclusions - important.

I recommend acceptance in its present form.