



EGUsphere, referee comment RC1
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Comment on egusphere-2022-117

Anonymous Referee #1

Referee comment on "A model for simultaneous evaluation of NO₂, O₃, and PM₁₀ pollution in urban and rural areas: handling incomplete data sets with multivariate curve resolution analysis" by Eva Gorrochategui et al., EGU sphere,
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This study attempts to apply multivariate curve resolution alternating least squares with quadrilinearity constraints to handle complex and incomplete four-way atmospheric data sets. Three air pollutants including nitrogen dioxide, ozone and particular matter in eight sampling stations located in Barcelona metropolitan area other parts of Catalonia during the COVID-19 lockdown (2020) with respect to previous years (2018 and 2019) are used for analysis. The new method indeed generates an interesting result, which has been well interpreted. Overall, the manuscript is well written and worthy of publication. However, this reviewer disagrees on one issue, i.e., estimation of missing data always suffered from uncertainties, whatever any approach to be used. The uncertainty should be included in data interpretation.