

# ***Interactive comment on “Source apportionment of fine particulate matter in Houston, Texas: Insights to secondary organic aerosols” by Ibrahim M. Al-Naiema et al.***

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Dear Ibrahim, Elizabeth and co-authors,

This is a very great work providing a comparison of OA source apportionment results obtained using PMF-AMS, PMF-filter based (MM-PMF) and CMB. There are only few papers in the literature showing such direct comparison and it is interesting to show how they agree.

I would like to suggest you to have a look to 2 papers that we have very recently published about the use of primary and secondary organic molecular markers in PMF

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source apportionment. This is maybe helpful.

Srivastava, D., Tomaz, S., Favez, O., Lanzafame, G. M., Golly, B., Besombes, J.-L., Alleman, L. Y., Jaffrezo, J.-L., Jacob, V., Perraudin, E., Villenave, E. and Albinet, A.: Speciation of organic fraction does matter for source apportionment. Part 1: A one-year campaign in Grenoble (France), *Science of The Total Environment*, 624, 1598–1611, doi:10.1016/j.scitotenv.2017.12.135, 2018a.

Srivastava, D., Favez, O., Bonnaire, N., Lucarelli, F., Haeffelin, M., Perraudin, E., Gros, V., Villenave, E. and Albinet, A.: Speciation of organic fractions does matter for aerosol source apportionment. Part 2: Intensive short-term campaign in the Paris area (France), *Science of The Total Environment*, 634, 267–278, doi:10.1016/j.scitotenv.2018.03.296, 2018b.

Regards,

Alexandre

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Interactive comment on *Atmos. Chem. Phys. Discuss.*, <https://doi.org/10.5194/acp-2018-343>, 2018.

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