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Interactive comment on “Applying receptor models Unmix and PMF on real data set of elements in PM for sources evaluation of the sea coastal side region (Southeast Adriatic Sea)” by D. Đorđević et al.

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Dear Editor,

Please find the corrected Manuscript according to the comments of Reviewer 1, together with answers on the Reviewers 1 comments, one by one.

All changes in the corrected Manuscript are highlighted in yellow.

The authors are very grateful on all reviewers efforts to help us to improve our work.

C3517

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With best regards Dragana Dordevic

Please also note the supplement to this comment:

<http://www.atmos-meas-tech-discuss.net/6/C3517/2013/amtd-6-C3517-2013-supplement.pdf>

Interactive comment on Atmos. Meas. Tech. Discuss., 6, 4941, 2013.

AMTD

6, C3517–C3526, 2013

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Fig. 1. Sampling site and prevailing wind directions

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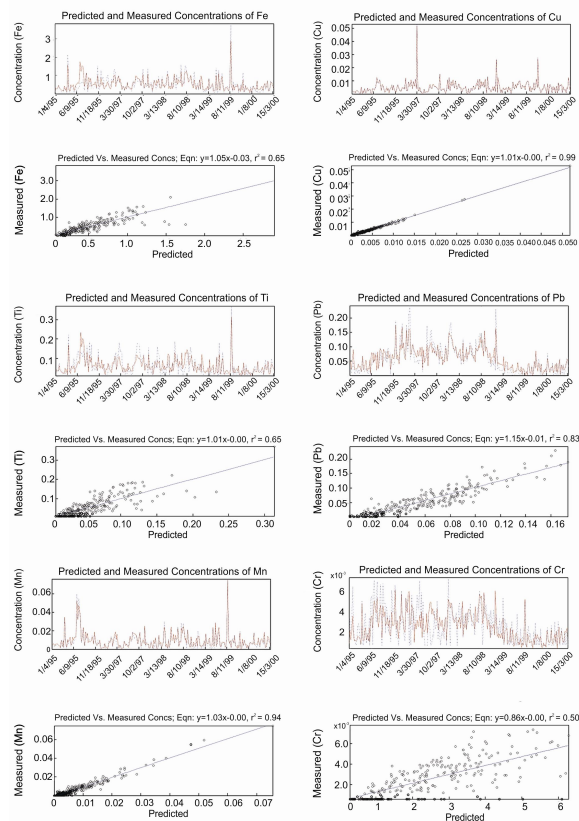


Fig. 2. Predicted and measured concentrations

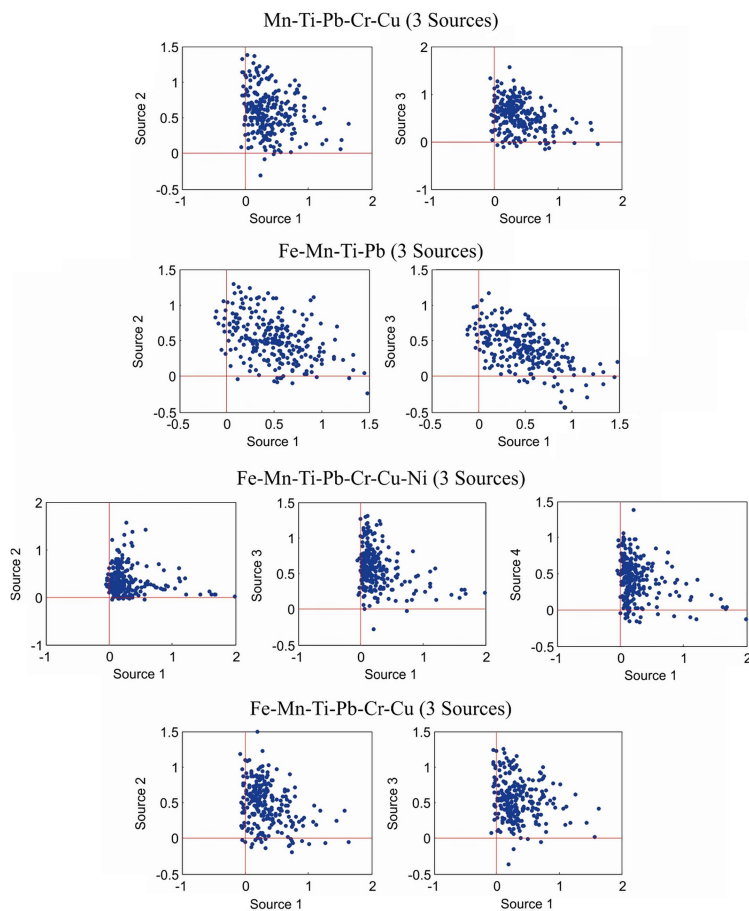


Fig. 3. Edge plots for chosen solutions that satisfy the conditions of Min S/N and Min R2

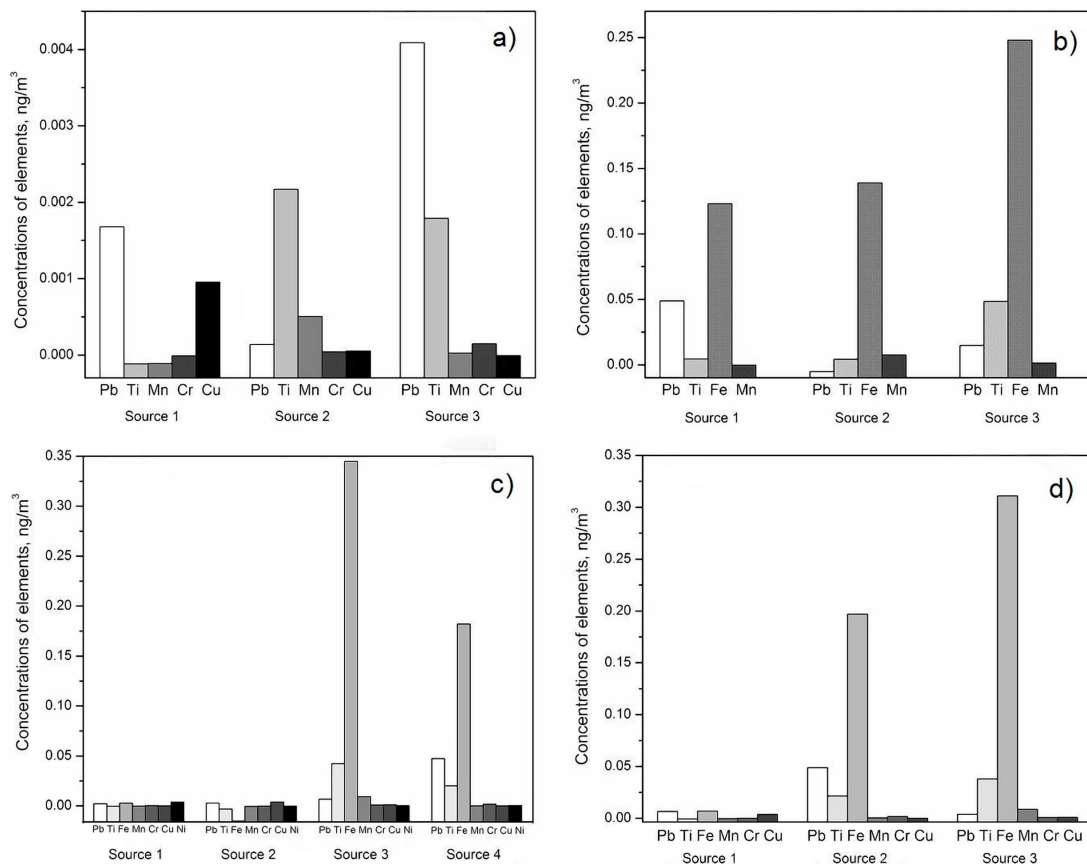


Fig. 4. Source profiles for selected solutions that are in accordance with the Unmix criteria

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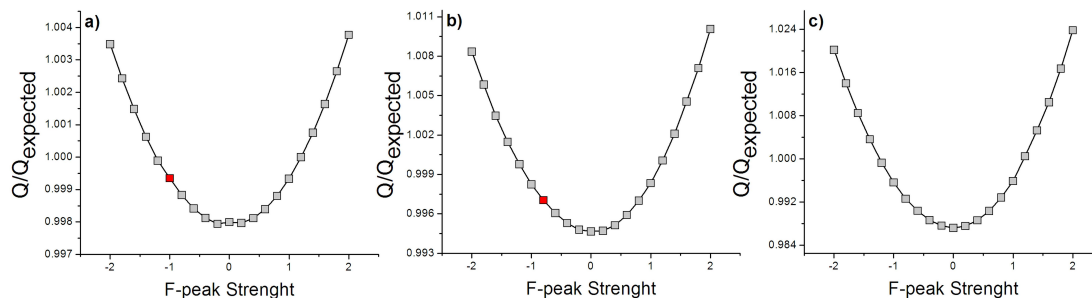


Fig. 5. F-peak analysis for three a), four b) and five c) source solutions. The red mark represents the value of F-peak Strength, at which the rotational ambiguity disappears.

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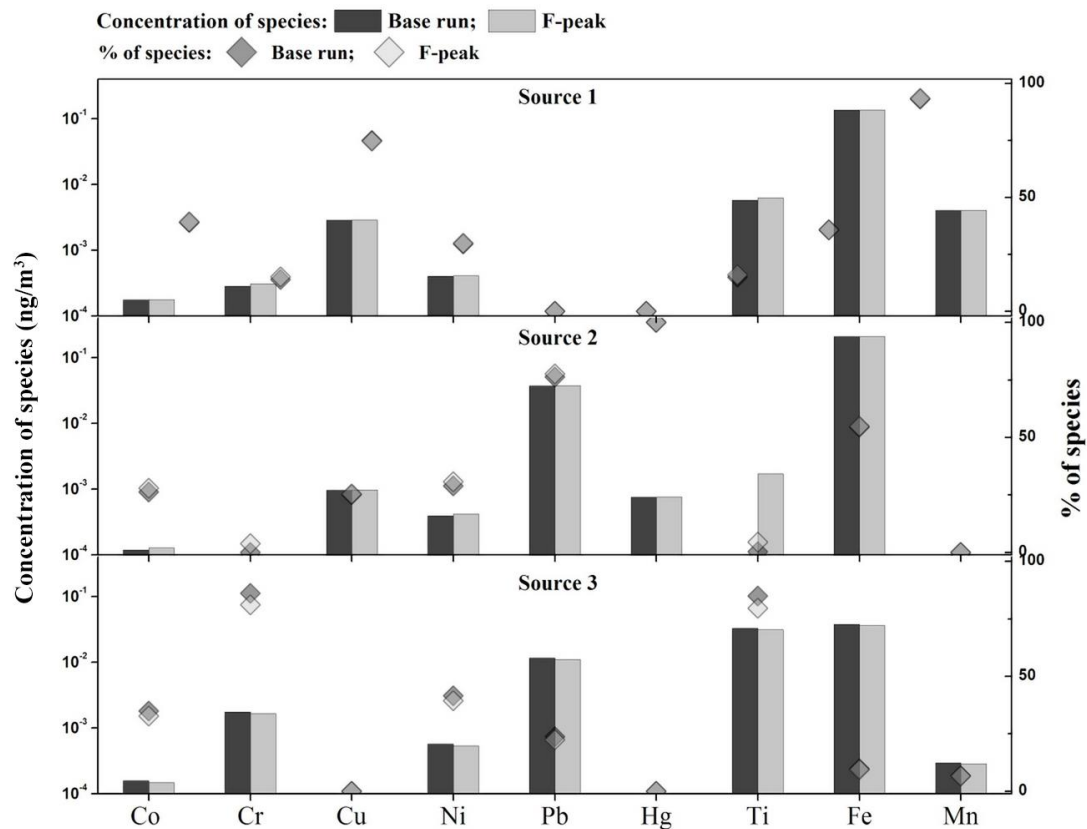
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Fig. 6. Profiles in the case of three sources solutions. Comparison of base run profile and F-peak run profile with the strength of -1.2 (disappearance of rotational ambiguity).

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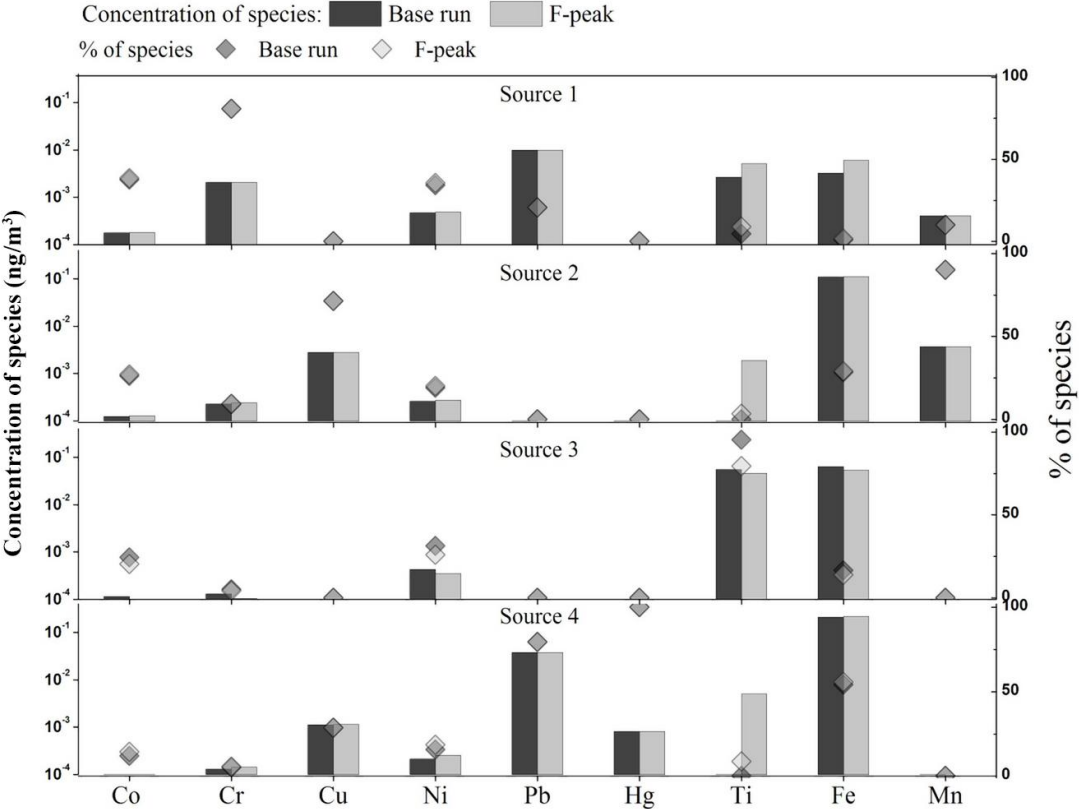


Fig. 7. Profiles in the case of three sources solutions. Comparison of base run profile and F-peak run profile with the strength of -0.8 (disappearance of rotational ambiguity).

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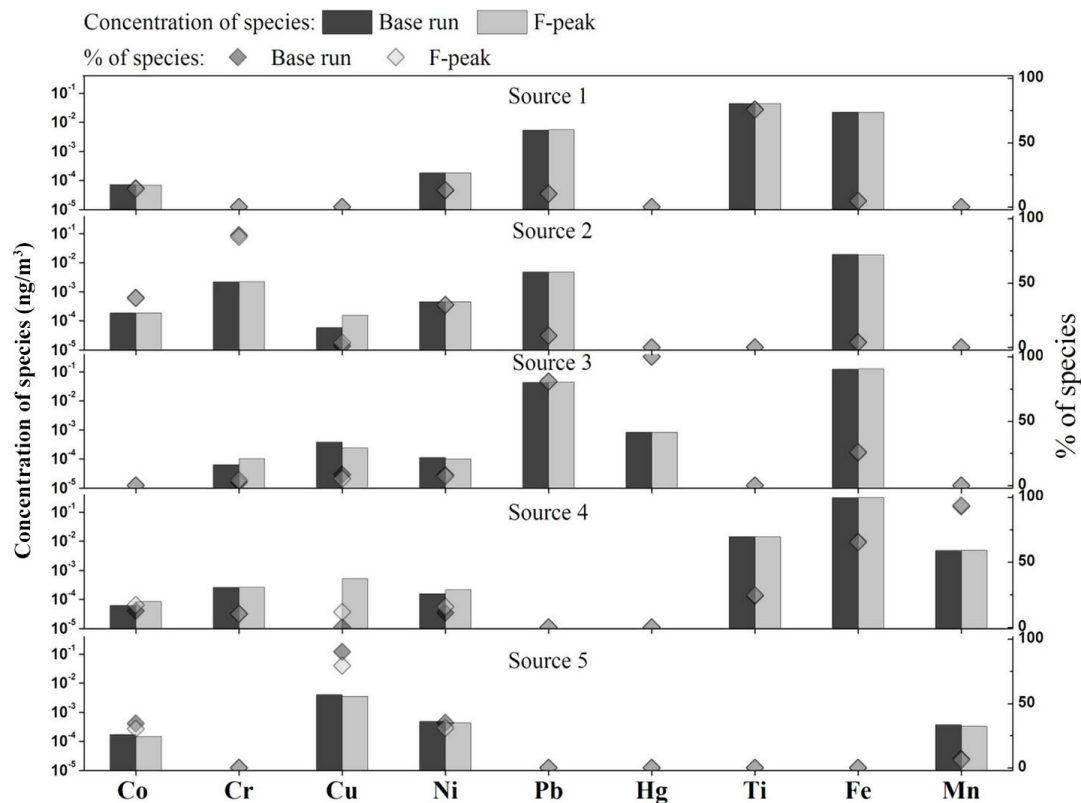
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Fig. 8. Profiles in the case of three sources solutions. Comparison of base run profile and F-peak run profile with the strength of -2.0 where it can be seen that F-peak Strength does not affect the existing

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