We have carefully reviewed our manuscript once again and have identified a few issues that we believe need to be addressed. We deeply appreciate your patience and the meticulous attention you have devoted to revising our paper. We have taken great care to ensure that no additional issues remain. We are genuinely grateful for your continued support and invaluable feedback, which have been instrumental in improving our work.

**Author’s Revisions**

1. We have revised the units in the following values: The average concentrations of TNMVOCs (22.5 ± 7.4 ppbv), SO2 (2.7 ± 2.1 μg m−3), NO2 (24.9 ± 12.3 μg m−3), CO (0.6 ± 0.1 mg/m3), PM10 (61 ± 19 μg m−3), and PM2.5 (24 ± 7 μg m−3) in Case 2 were all lower than those in Case 1.

Please note that these revisions are located on pages 5, lines 77 to 79 of the manuscript.

We apologize for the oversight. Due to an error on our part, the units for SO2, NO2, PM10, and PM2.5 were incorrectly stated in the manuscript. The correct units should be μg m⁻3. We confirm that the numerical values are accurate; only the units were mistakenly written incorrectly.

1. I have noticed that Figure 1 does not include PM10, so the references to PM10 in section “3.1.1 NMVOC concentrations and composition” should be removed. Specifically:

In the second paragraph of section 3.1.1, please delete “PM10” and the corresponding concentration value “59.6 ± 26.5 µg/m³” from lines 9 and 10.

In the third paragraph of section 3.1.1, please remove “PM10” and the corresponding concentration value “69.1 ± 31.5 µg/m³.”

Additionally, delete “PM10 (61 ± 19 µg/m³)” from line 16 at the end of the third paragraph in section 3.1.1.

Remove “PM10” from the first sentence of the fourth paragraph in section 3.1.1.

1. The final sentence of section 2.2 to say “…(PM2.5 and PM10 (not discussed below))…”
2. I have identified an error in the manuscript that needs correction. On page 6, in the third paragraph, the section currently reads:

“These groups were followed by alkenes (9 %), aromatics (5 %), alkenes (5 %), OVOCs (7 %), alkynes (7 %), and sulfides (1 %)."

This should be corrected to:

“These groups were followed by alkenes (9 %), aromatics (5 %), alkyne (5 %), and sulfide (<1 %).”

1. In section “3.3.2 Results of the Empirical Kinetics Modeling Approach (EKMA),” the twelfth line of the second paragraph currently states: “decrease significantly, whereas if only the concentration of NO*x* is reduced, the concentration of O3 will first rise and then decrease.” This should be corrected to “decrease significantly. If only the concentration of NO*x* is reduced, the concentration of O3 will rise to a maximum, and then decrease slightly but remain higher than for the original mixture ratio (red circle at top right of the figure).”