

Comments to “Development and field-testing of an online instrument for measuring the real-time oxidative potential of ambient particulate matter based on dithiothreitol assay” by Joseph V. Puthussery et al.

The revised manuscript improved a lot. I only have one minor comment to the interpretation of the difference between the online and offline DTT activity in Figure 2. In the section 3.4, the authors claimed that ‘The higher  $OP_{ex}$  measured directly on the filters was attributed to the contribution from water-insoluble PM fraction remained on the filters, which is not fully extracted even by methanol.’ But I did not see any convincing evidence from the manuscript to support this explanation. There are maybe other plausible reasons that may explain such a difference, e.g. dissociation or decomposition of PM-bound redox active substances by chemical aging and sonication. The chemical substances that have high DTT activity are generally reactive and not so stable. Therefore, discussions about this aspect will be helpful and beneficial to readers. Overall, I prefer to recommend the publication of this manuscript in AMT finally.