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Atmospheric Measurement Techniques Discussions

Interactive comment on "The interference of tetrachloromethane in the measurement of benzene in air by Gas Chromatography - Photoionization Detector (GC-PID)" *by* Cristina Romero et al.

Anonymous Referee #1

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Line 18.- Is there is an official recommendation? – Please provide a reference. Line 33.- Please be more pragmatic in the resolution of this problem. Apart from requesting the manufacture intervention, it would be useful to present a list of measurements to carry out by the user in order to minimize or avoid this problem. Line 49.- change degrees to °C Line 59.- Remove double endpoint. Line 70.- Why is it compared with hydrocarbons of similar molecular weight? This is not an indicator of stability in the atmosphere. Line 76 .- Please make reference to the corresponding legislation. Line 127.- Please provide appropriated reference. Line 223.- Who was the certifying body?

What are the uncertainties of the final generated concentrations? Line 356.- This seems a relevant item to be reported in the conclusions to be considered in the EN standard. Line 474.- Although these biases seem very high, it would be of interest to demonstrate that they are significant compared to the measurement uncertainties by considering the whole experimental setup. Line 486 .- Please consider my comments on Line 33. Instead of proposing a discussion forum, for which the revision of this paper in the public domain provide you with such a possibility, it is expected from the authors some directions on the issue. (i.e. new test proposal to the EN standard or other solving approaches). Line 614.- Why are Ucorg and Vtest(%) reported only in this Table? Line 649.- Why are the results of analyzer II not reported? Line 470 and 649.- What is the reproducibility of the Eq(15) between different analyzers?

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