

## ***Interactive comment on “Real-time monitoring of trace-level VOCs by an ultrasensitive compact lamp-based VUV photoionization mass spectrometer” by W. Q. Sun et al.***

### **Anonymous Referee #3**

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W. Q. Sun et al. described that real-time monitoring of trace-level VOCs by an ultrasensitive compact lamp-based VUV photoionization mass spectrometer. It is very important to be able to measure low VOCs.

However, the part about field measurements seemed to be shown doubt. Generally, backgrounds for benzene, toluene etc. aren't approximately 0 ppb. Data from 3/8 00:00 to 3/10 12:00 is too low (see Fig.5). I don't think it is interesting that they show a remarkable opposite trend to the wind speeds. That's very natural due to diluted airborne pollutants. Author should discuss about background close to zero for benzene from 3/8 00:00 to 3/10 12:00 rather than that. Thus, the manuscript needs a minor

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revision before it is ready for publication.

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Interactive comment on Atmos. Meas. Tech. Discuss., 8, 5877, 2015.

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