

Interactive comment on “Observations of VOC emissions and photo chemical products over US oil- and gas-producing regions using high-resolution H₃O⁺ CIMS (PTR-ToF-MS)” by Abigail Koss et al.

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The authors have presented data from PTR-TOF-MS from various oil and natural gas basins in the United States. The concentrations of various VOCs are discussed and compared to other studies/locations for context. The presence of some compounds in the Permian basin are investigated and identified. A lot of data were presented in this paper and it contains a host of information. The paper is well-written, concise, and flows well. The information presented is important to the scientific community investigating oil and gas emissions and those using PTR-TOF-MS. I recommend publication with a

C1

few minor comments.

Comments: Figure 4: I find the error bars of the SONGNEX flights (max/min) confusing. Could the other clarify this please?

Line 730-731: Since this paper does not specifically look at methanol but presents an overview of the VOCs I think the authors can delete the "A more detailed.... this paper." sentence.

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