

Sources of Formaldehyde in Bountiful, Utah

Nitish Bhardwaj ¹, Ariel Kelsch ¹, Delbert J. Eatough ¹, Ryan Thalman ², Nancy Daher ³, Kerry Kelly ⁴, Isabel Cristina Jaramillo ⁴ and Jaron C. Hansen ^{1,*}

¹ Department of Chemistry and Biochemistry, Brigham Young University, Provo, UT 84602, USA; bhardwaj15nitish@gmail.com (N.B.); arielkelsch123@gmail.com (A.K.); delbert@eatough.net (D.J.E.)

² Department of Chemistry, Snow College, Richfield, UT 84701, USA; ryan.thalman@snow.edu

³ Utah Division of Air Quality, Salt Lake City, UT 84116, USA; ndaher@utah.gov

⁴ Chemical Engineering, University of Utah, Salt Lake City, UT 84112, USA; kerry.kelly@utah.edu (K.K.); cristina.jaramillo@utah.edu (C.J.)

* Correspondence: jhansen@chem.byu.edu; Tel.: 801-422-4066

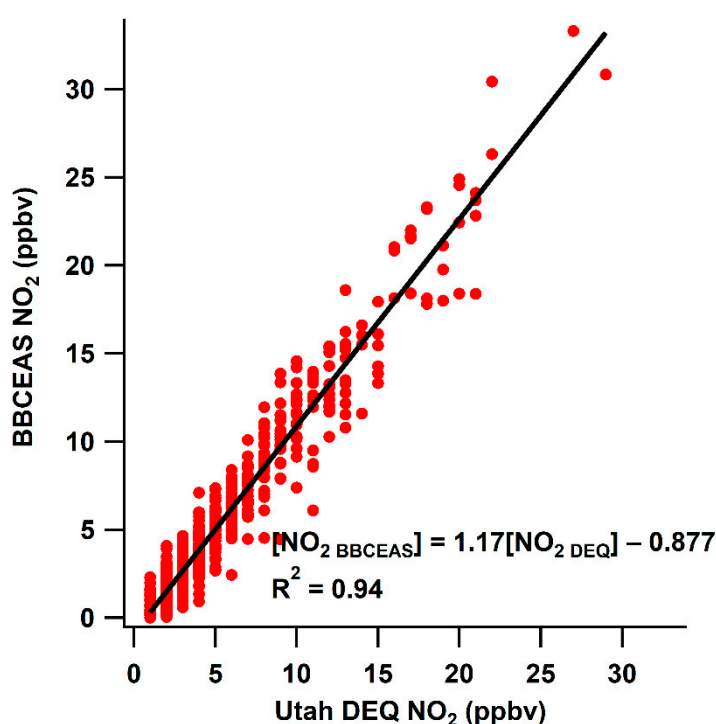


Figure S1. Comparison of the NO₂ concentrations measured by the BBCEAS and the Teledyne Advanced Pollution Instrumentation (API) T series NO_x analyzer operated by Utah DAQ during the 2019 air sampling campaign from February 2019 to June 2019.

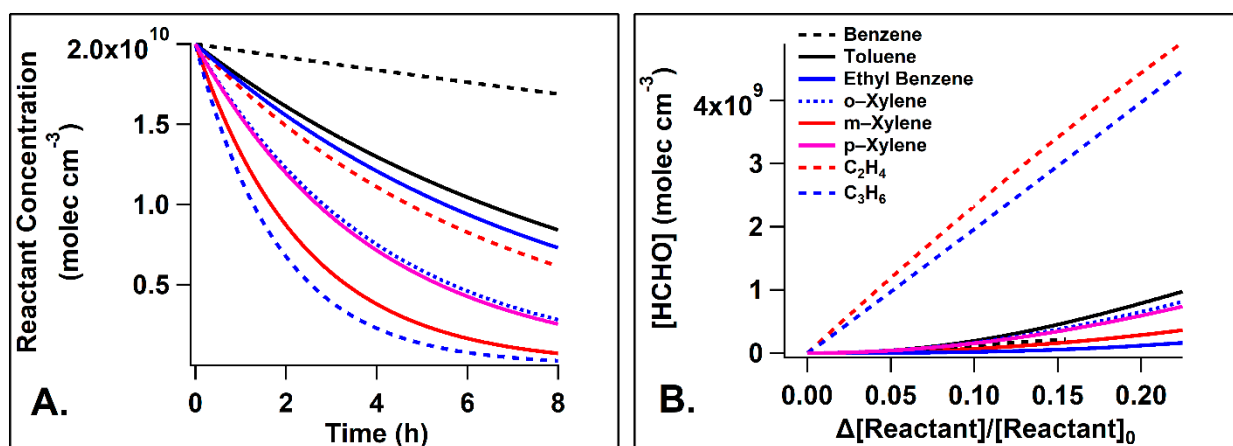


Figure S2. (a) Box modelling of oxidation of BTEX and light alkene compounds as a function of time (hr). (b) Rate of HCHO production as a function of VOC and loss of reactant concentration.