Supplementary Information for "Trace Detection and Competitive Ionization of Erythritol Tetranitrate in Mixtures Using Direct Analysis in Real Time Mass Spectrometry"

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Additional Mass Spectra and Figures



Figure S1. (a) Converting signal intensity as a function of time (i) to a cumulative intensity distribution (ii) and normalizing to the total counts for each respective ion over a 60 s period (iii). (b) Cumulative intensity distributions for DART-MS of mixture compositions (A) 0 ng ETN – 50 ng erythritol, (B) 50 ng ETN – 0 ng erythritol, and (C) 50 ng ETN – 50 ng erythritol, in the presence of (1) no additives, (2) 5 μ L of 0.005 % HNO₃, and (3) acetone vapor. "M" represents erythritol in the figure.



Figure S2. Representative DART negative ion mode mass spectrum of an erythritol tetranitrate (ETN) – Truvia mixture collected with a PTFE-coated fiberglass weave swab from an aluminum substrate. 500 ng of each component was deposited onto the aluminum surface.