

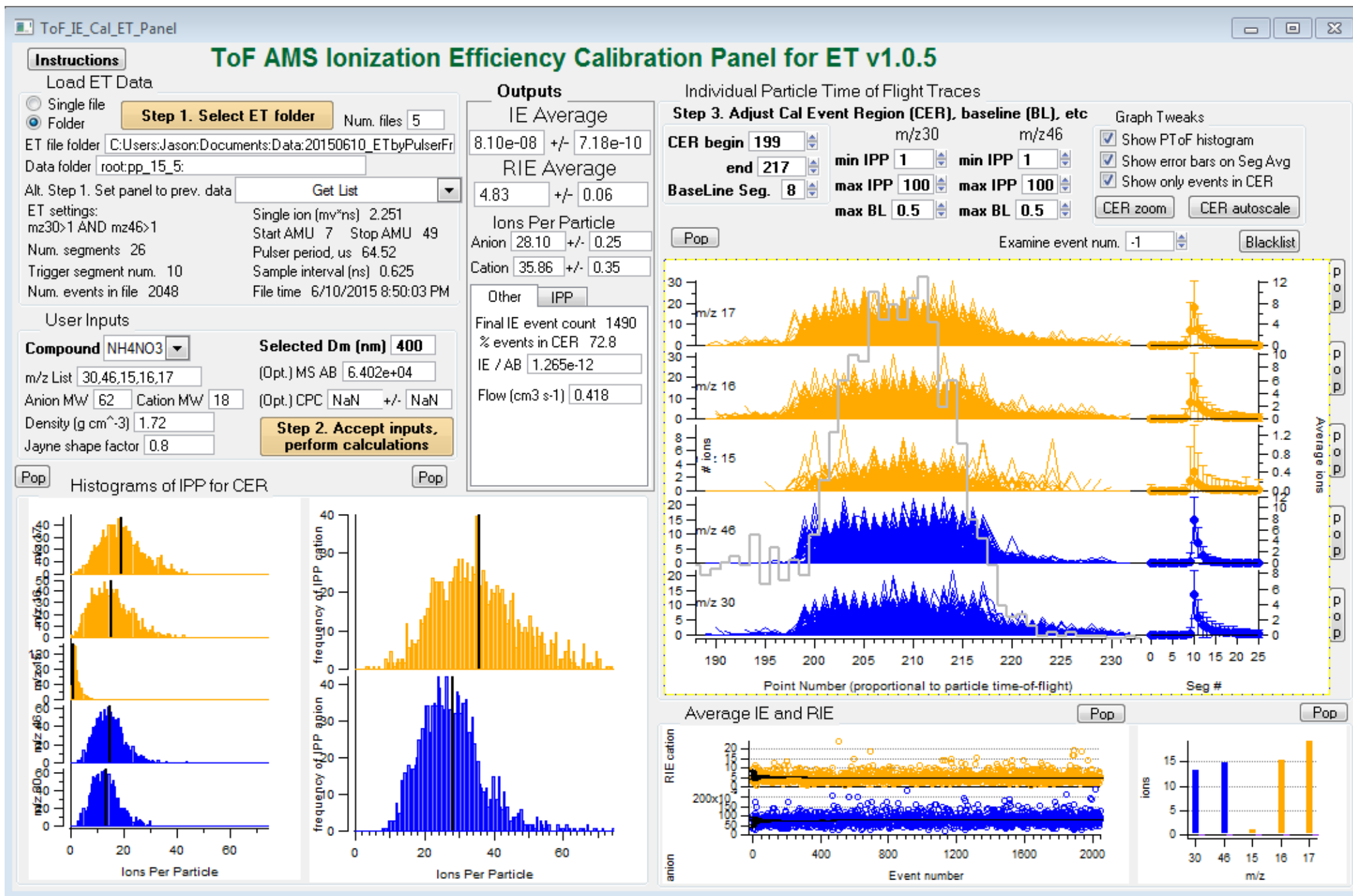
Event Trigger Panel

Introduction and Discussion

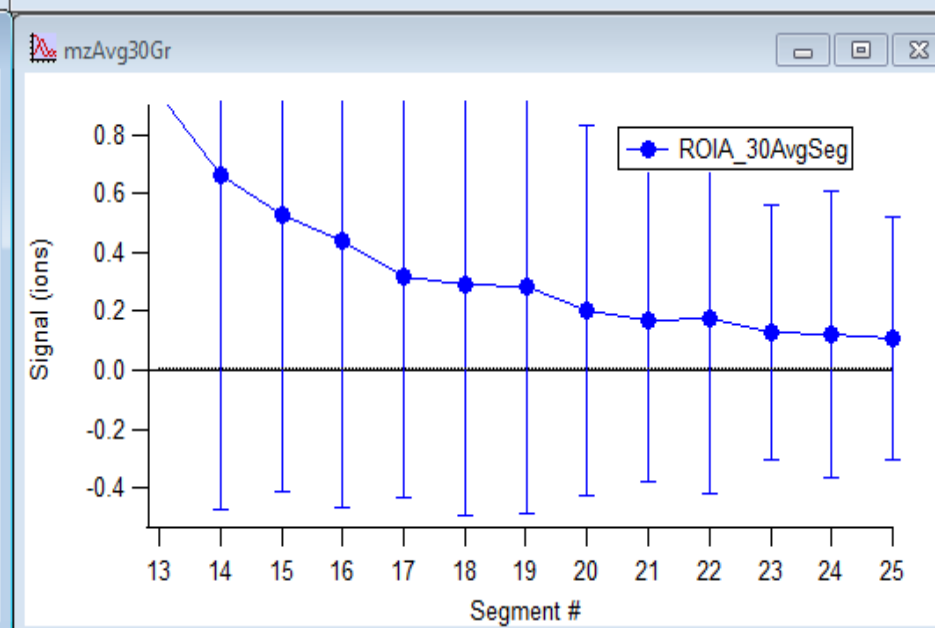
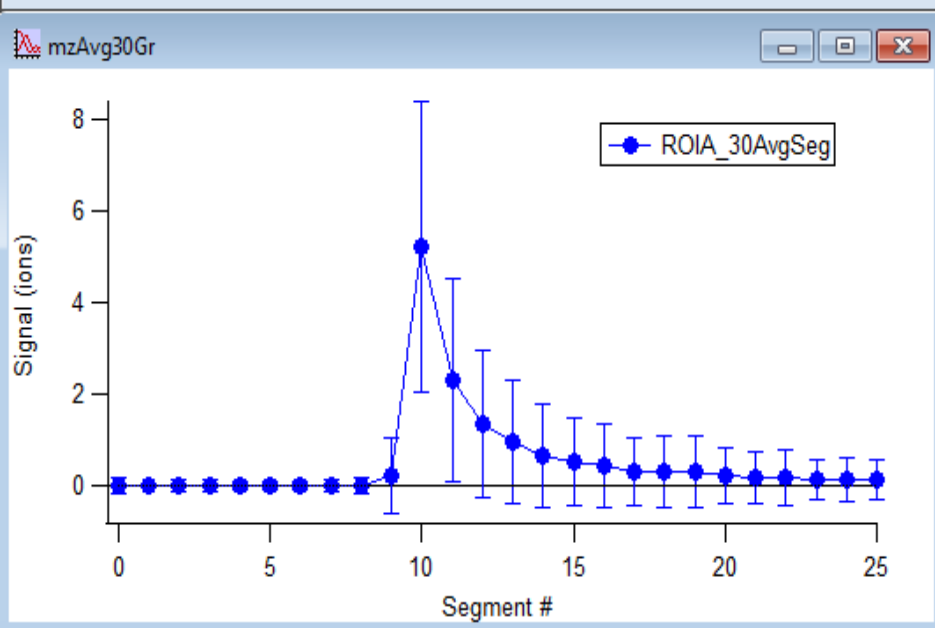
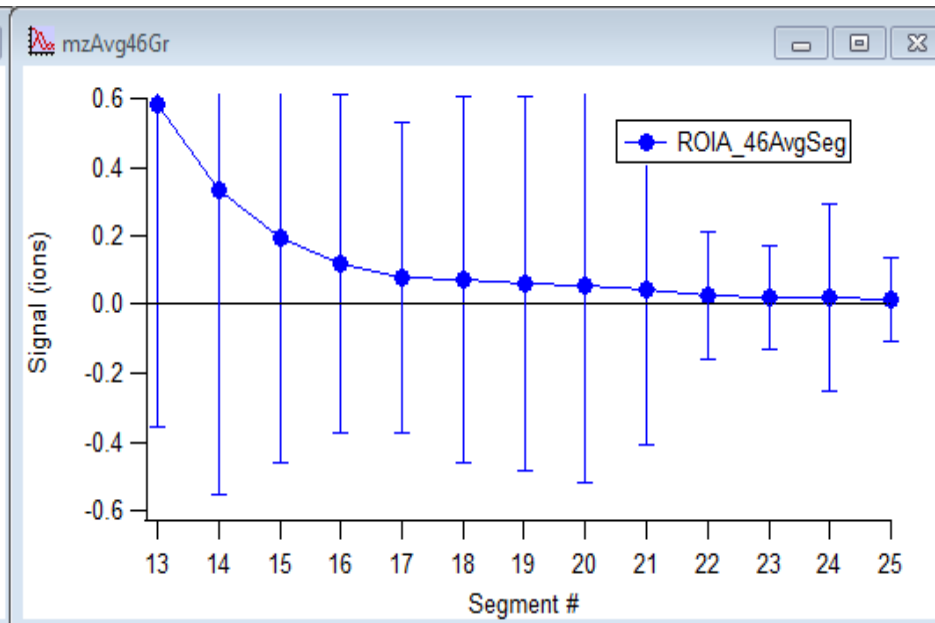
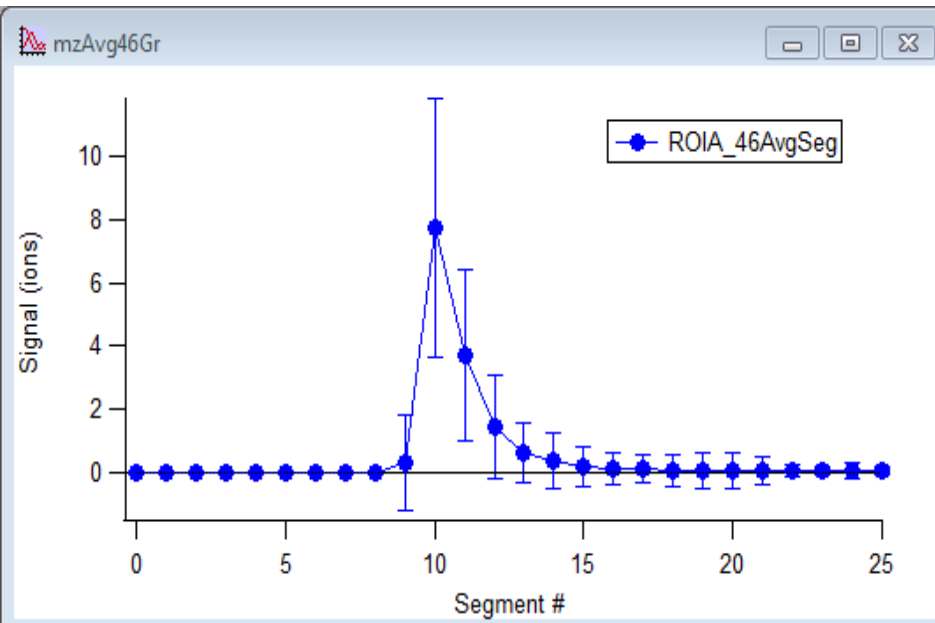
Jason Schroder and Donna Sueper

AMS Clinic 6/20/2015

Event Trigger IE Panel



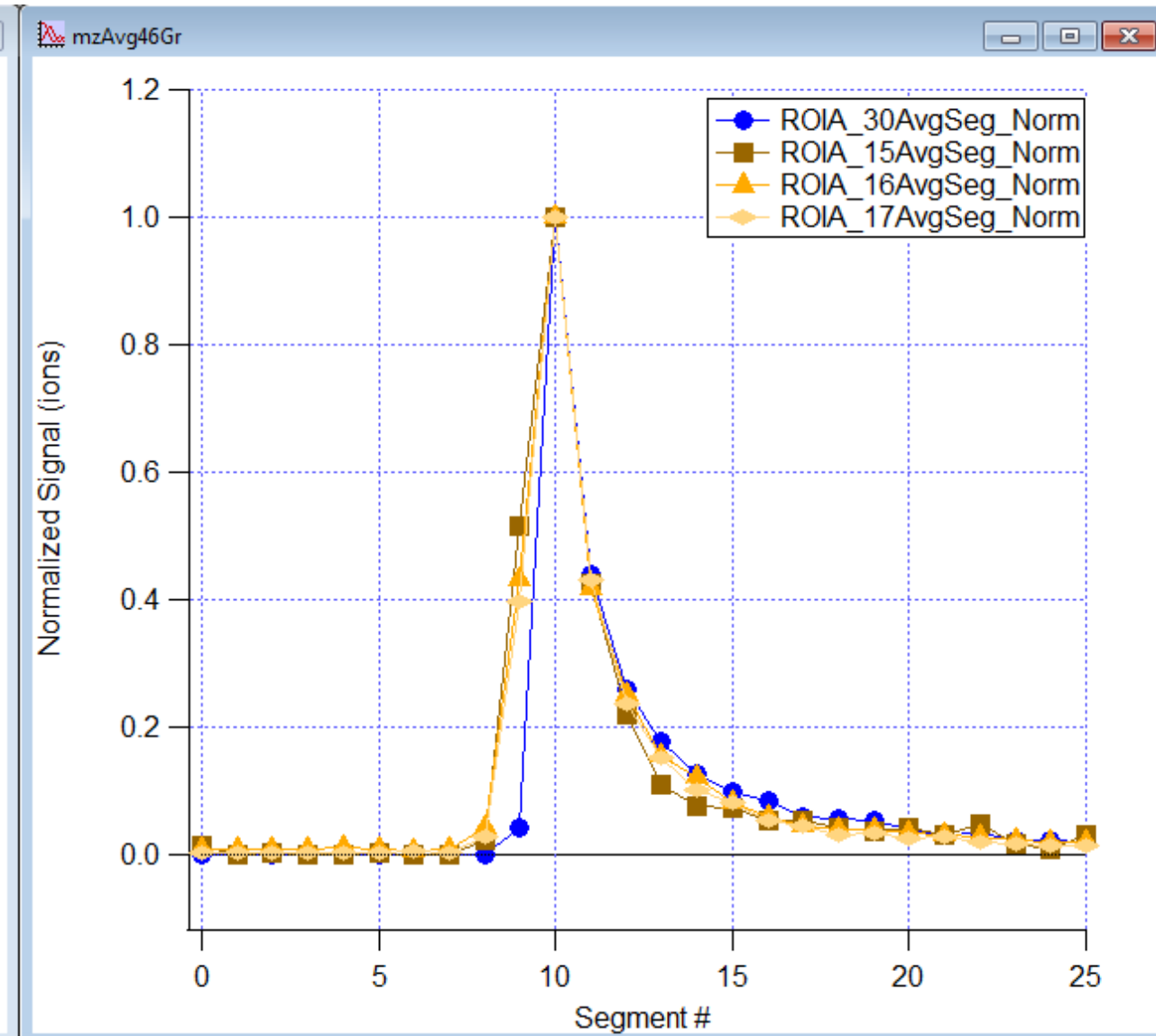
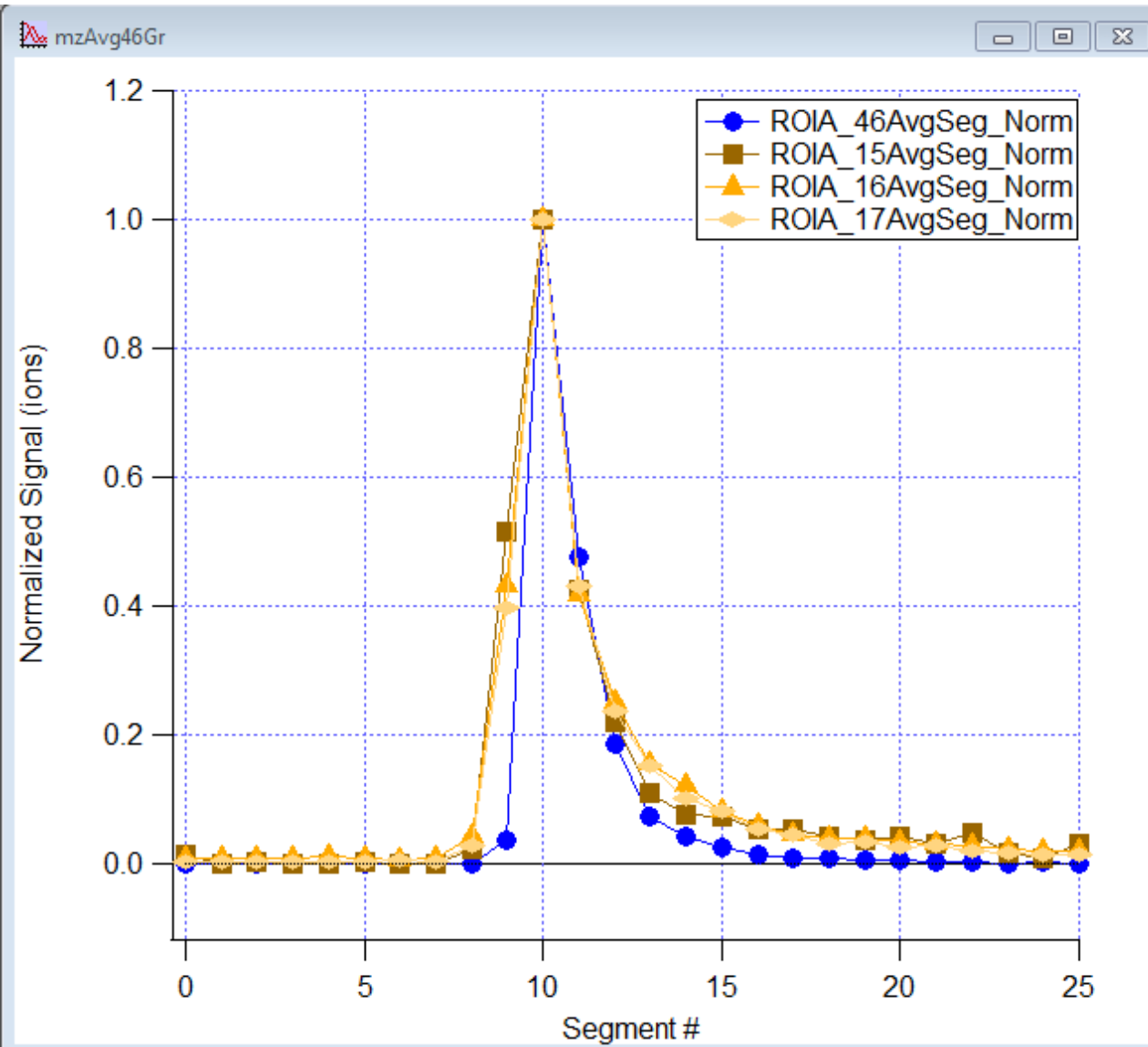
Need more segments



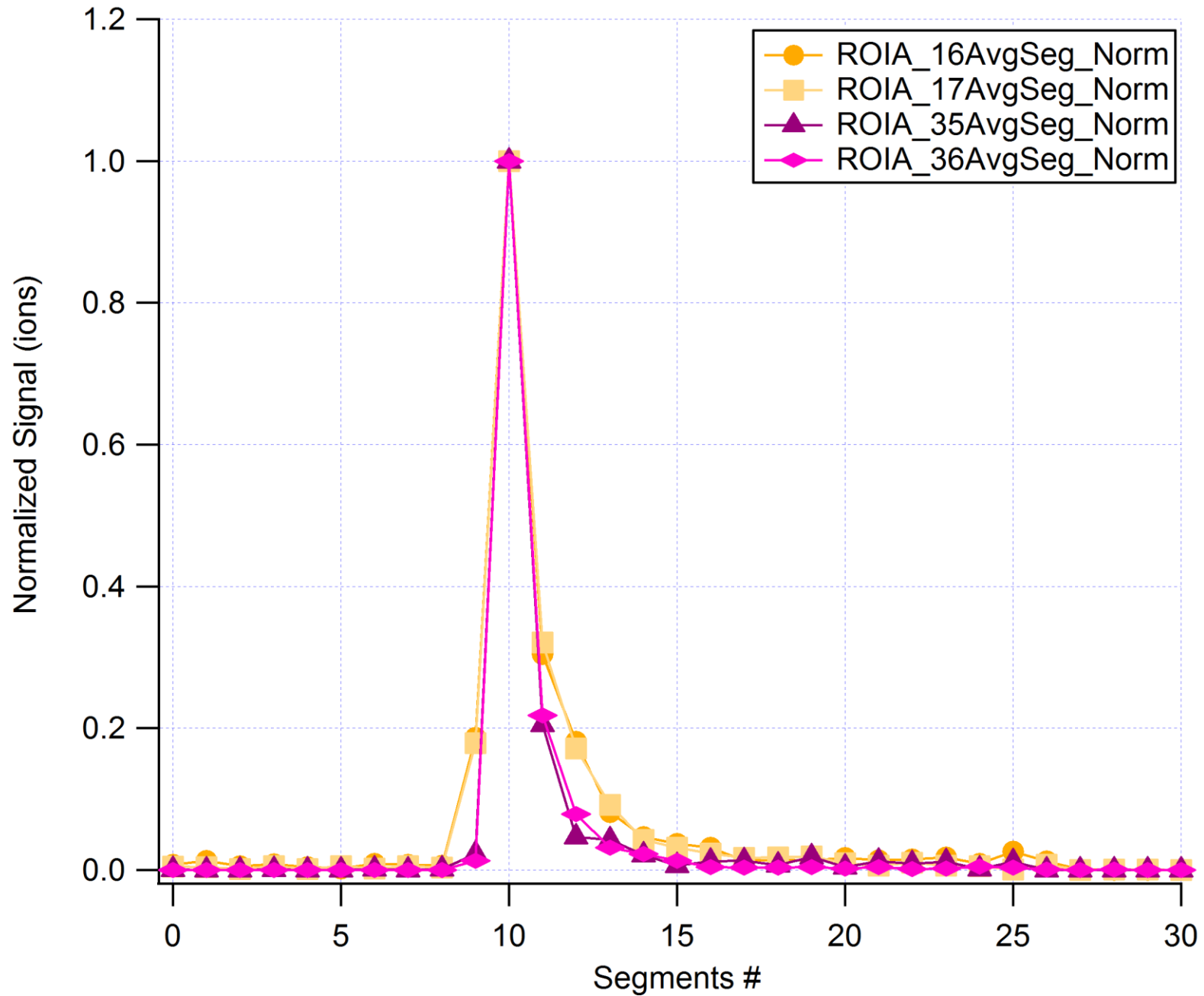
- ADQ Firmware has an upper limit of 25 segments, and a maximum of 15 segments after trigger.

- m/z 30 does not return to baseline with only 15 segments after trigger (10 in this case)

Event Trigger with NH_4NO_3 - NO vaporizing slower than NO_2 with respect to NH_4 ions in Ammonium Nitrate

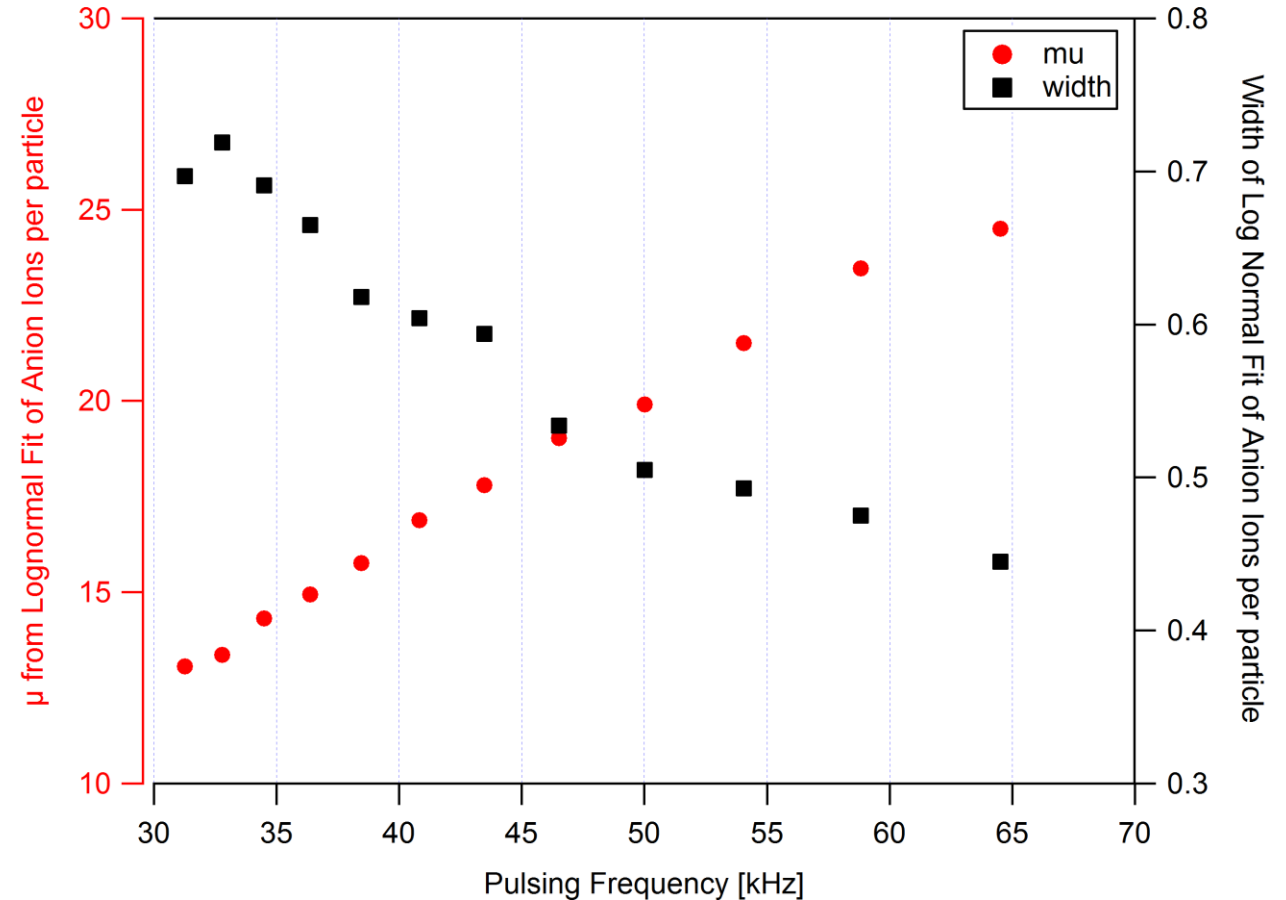
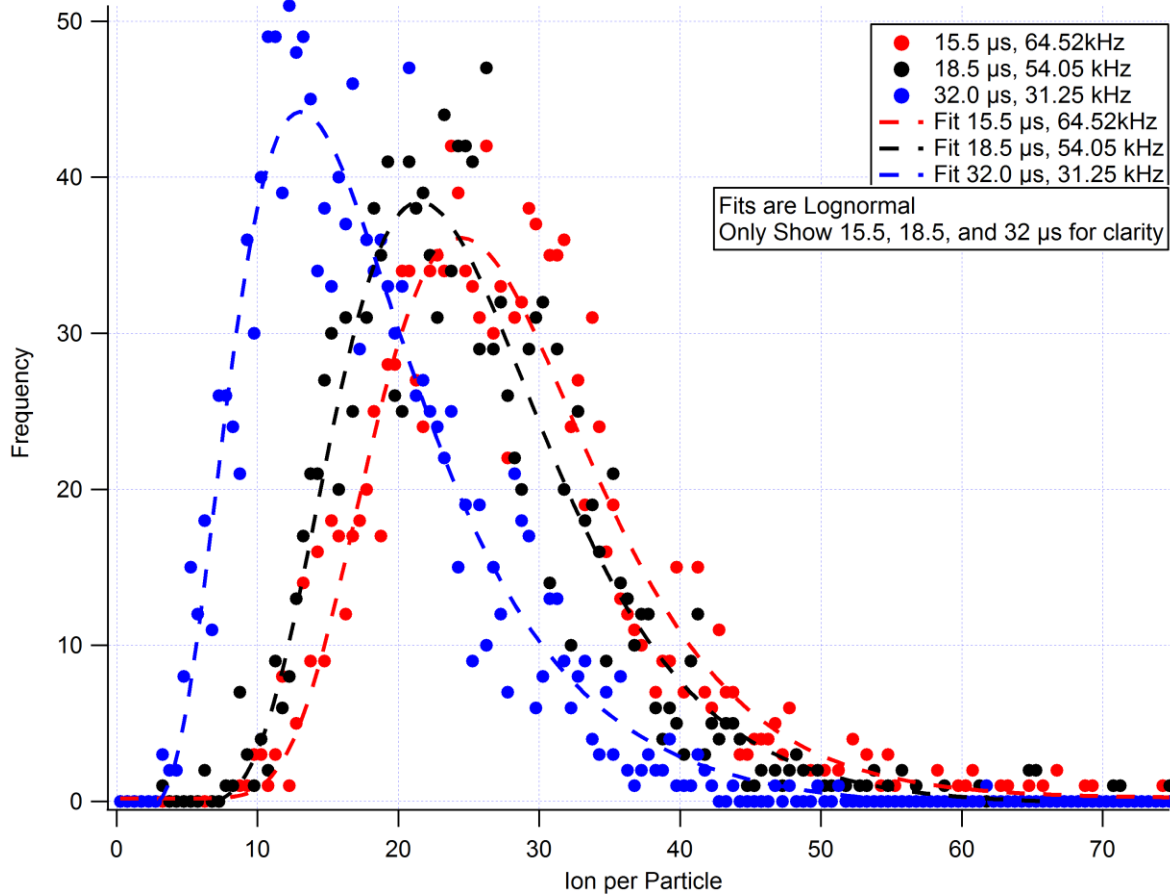


Event Trigger with NH₄Cl - HCl & Cl vaporizing faster than NH₄ Ions in Ammonium Chloride



Ions per particle as a function of pulser frequency

Anion IPP Distributions



As pulser frequency increases more ions per particle are counted and the distributions become narrower.

For NH_4NO_3 calibrations, it is recommended to run event trigger at the fastest frequency possible.