

ARTEMIS P1

ARTEMIS P2

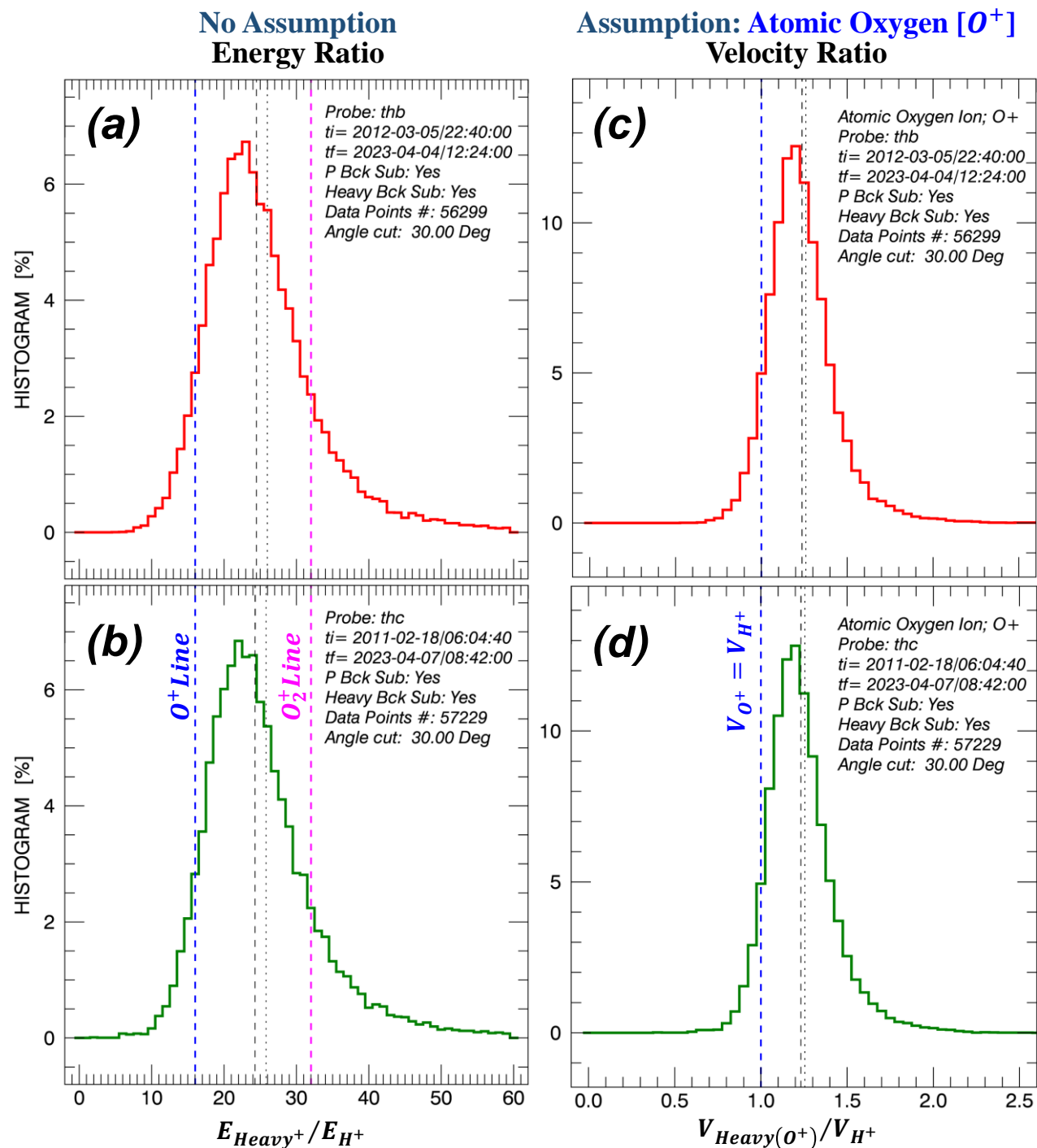


Figure 6. Histogram plots of (a) and (b) heavy ion to proton energy ratio for the entire events measured by ARTEMIS P1 (red) and ARTEMIS P2 (green) respectively, (c) and (d) atomic oxygen to proton velocity ratio for the entire events measured by ARTEMIS P1 and ARTEMIS P2 respectively. Dashed blue and dashed magenta lines in (a-b) are the expected atomic and molecular oxygen ion lines respectively if the equal-velocity assumption (with protons) is considered for the heavy ions. The dashed blue lines in (c-d) is the expected velocity if the assumed atomic oxygen ions if heavy particles happened to have exactly the same velocity as the proton population. No running average or down sampling is performed for this Figure. The locations of the measurement were already depicted in Figure 2. Dashed black and dotted black lines in all four panels are the median and mean values respectively.