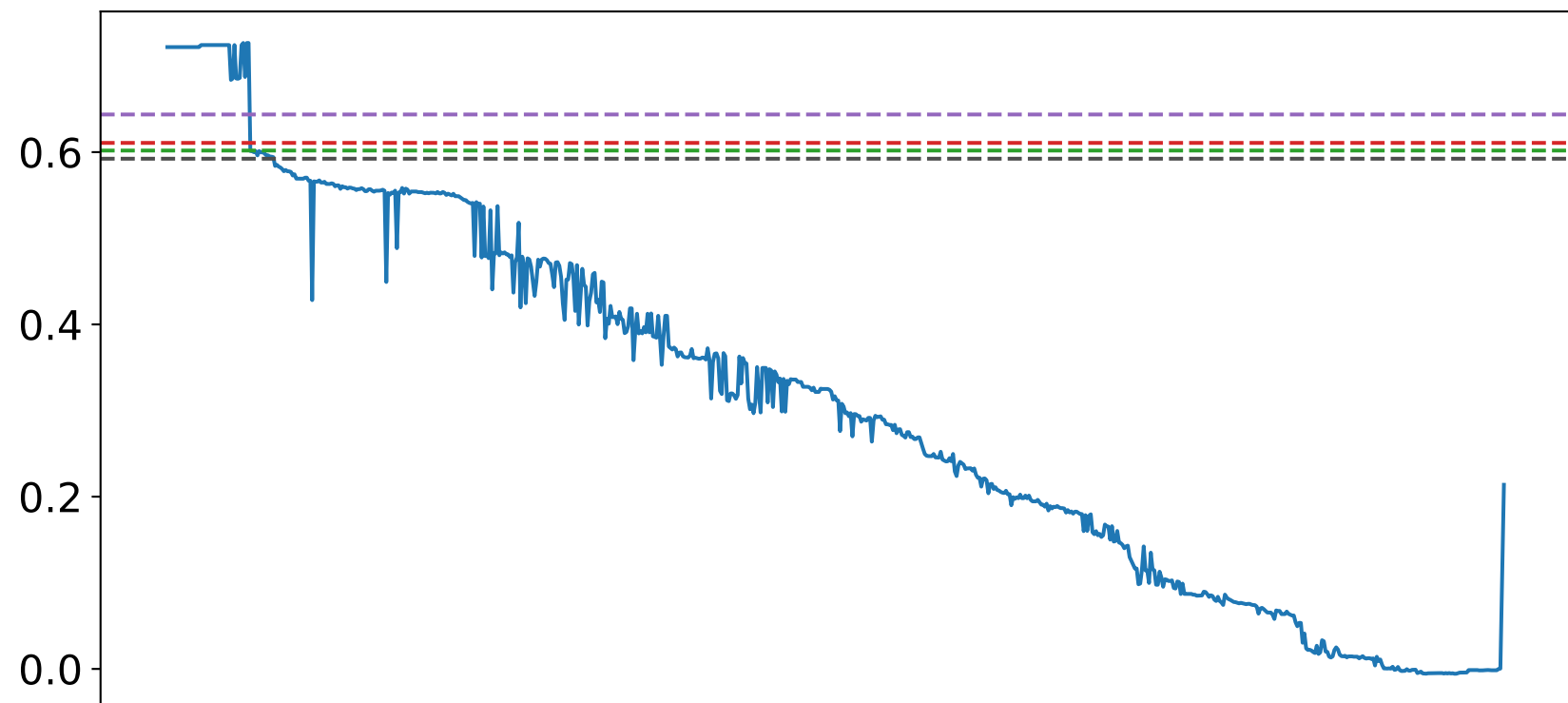
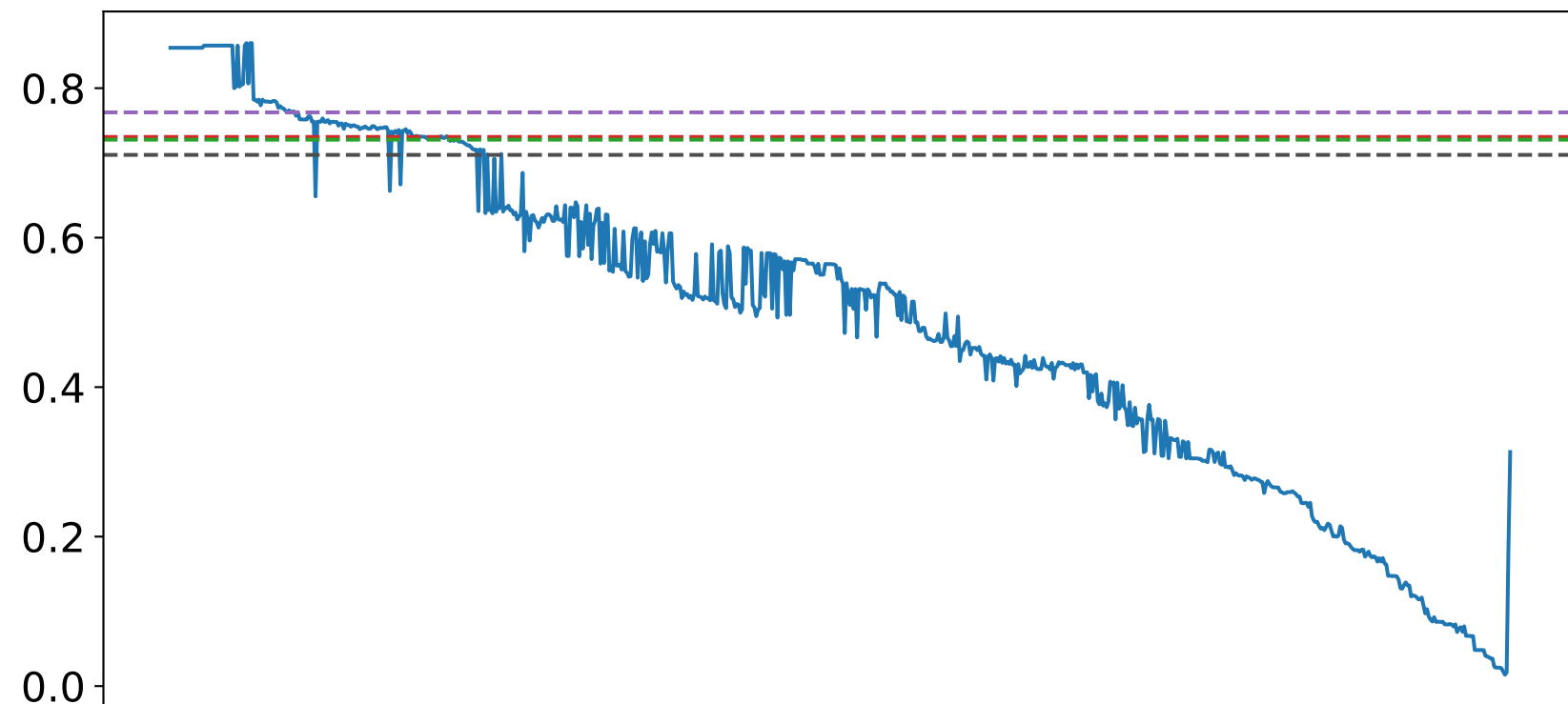


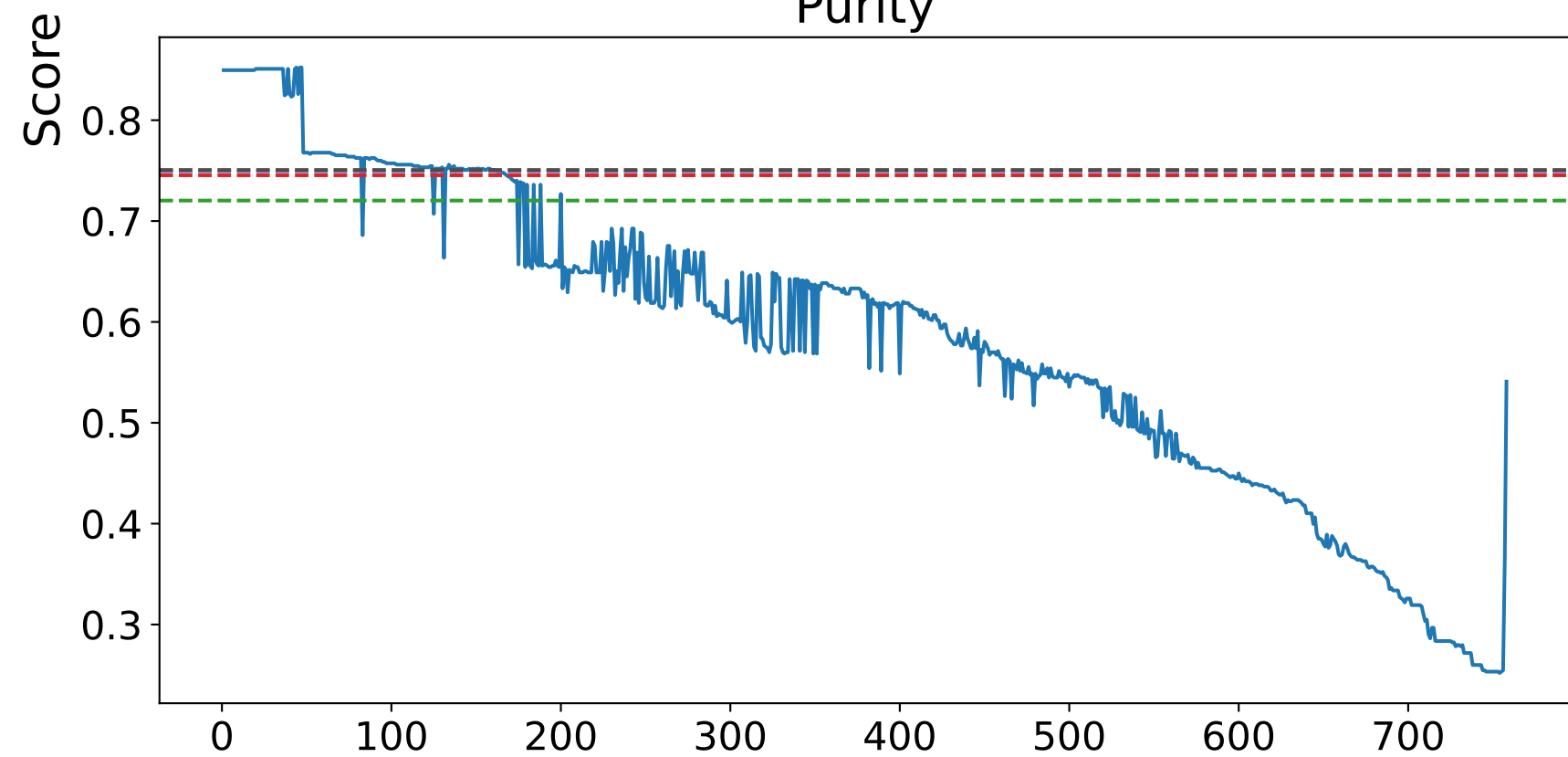
ARI



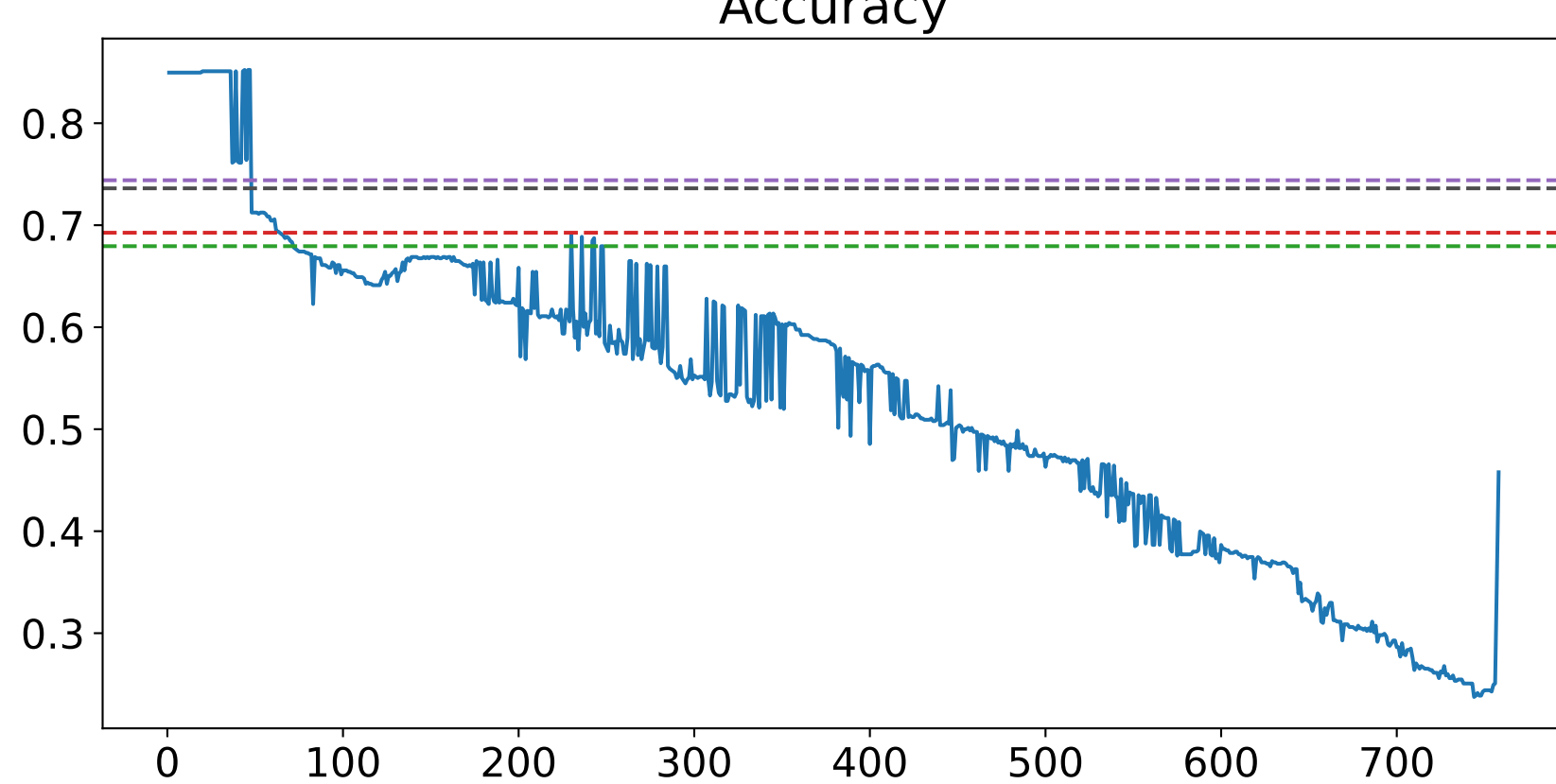
NMI



Purity



Accuracy

Index  $t$  of  $H_t$ 

— pNMF    - - - NMF    - - - GNMf    - - - TNMF    - - - kTNMF