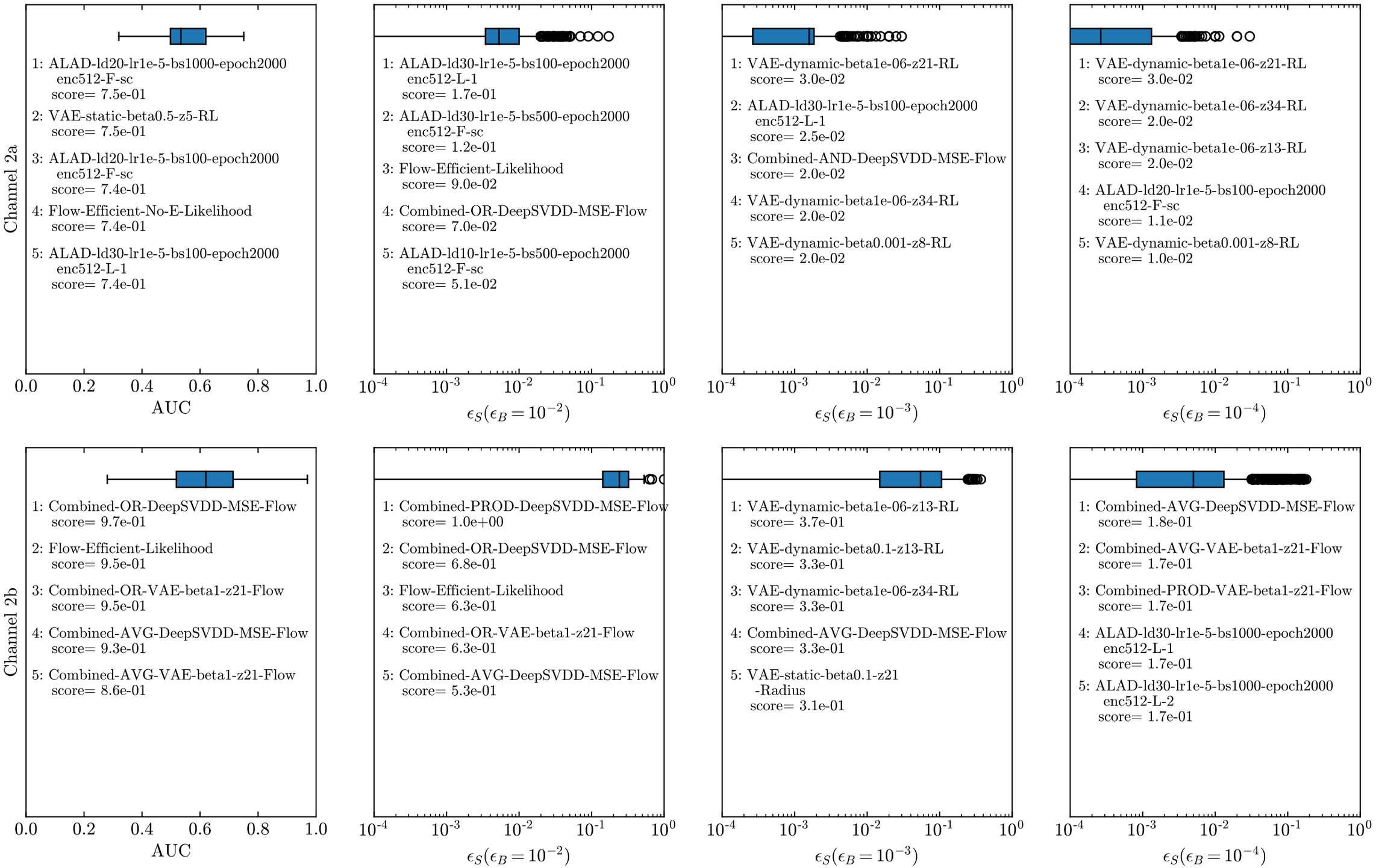Signal pp24mt_50