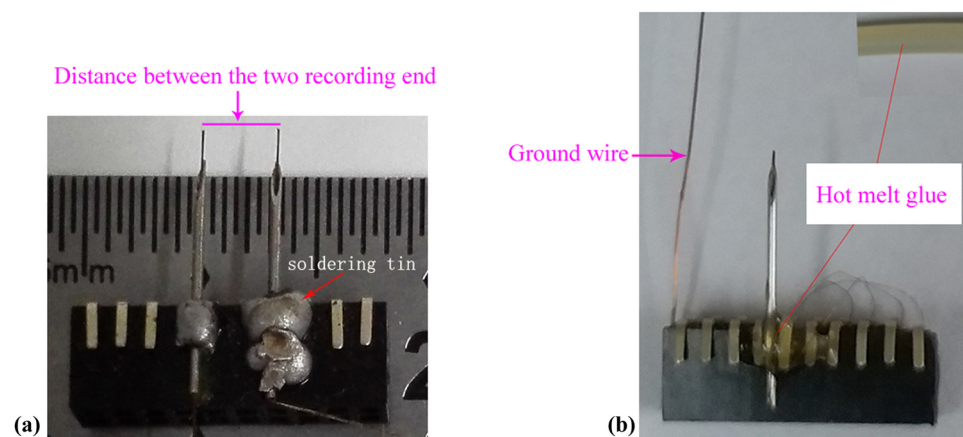
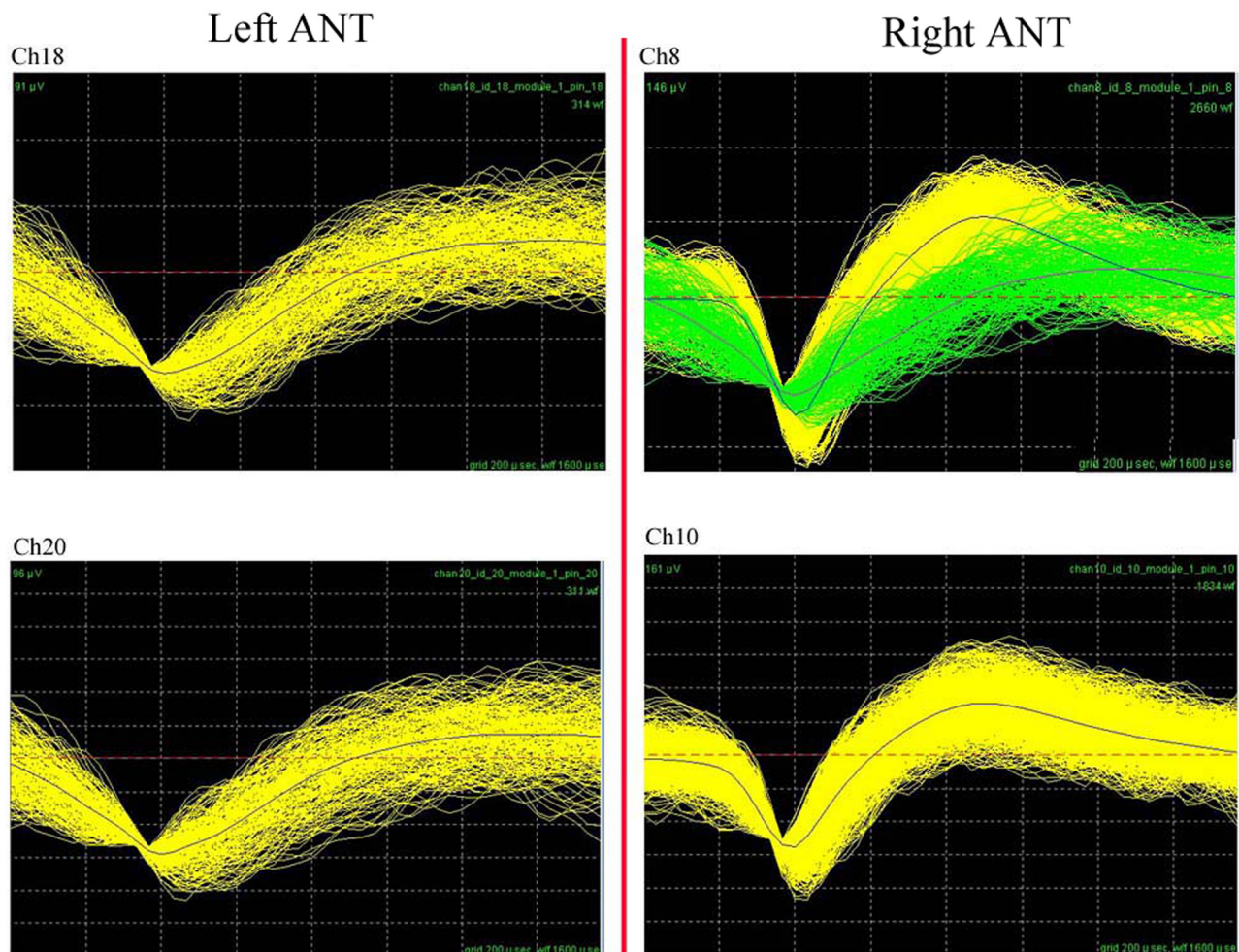


Supplementary material



Supplementary Figure S1: The hot melt glue is better than soldering tin in reducing the steric hindrance. The number of recording ends can be one or two, or more, which depends on the number of target areas. The distance between the two recording ends was determined by the distance between the two target areas.



Supplementary Figure S2: Spike firing was recorded successfully using our designed electrode.