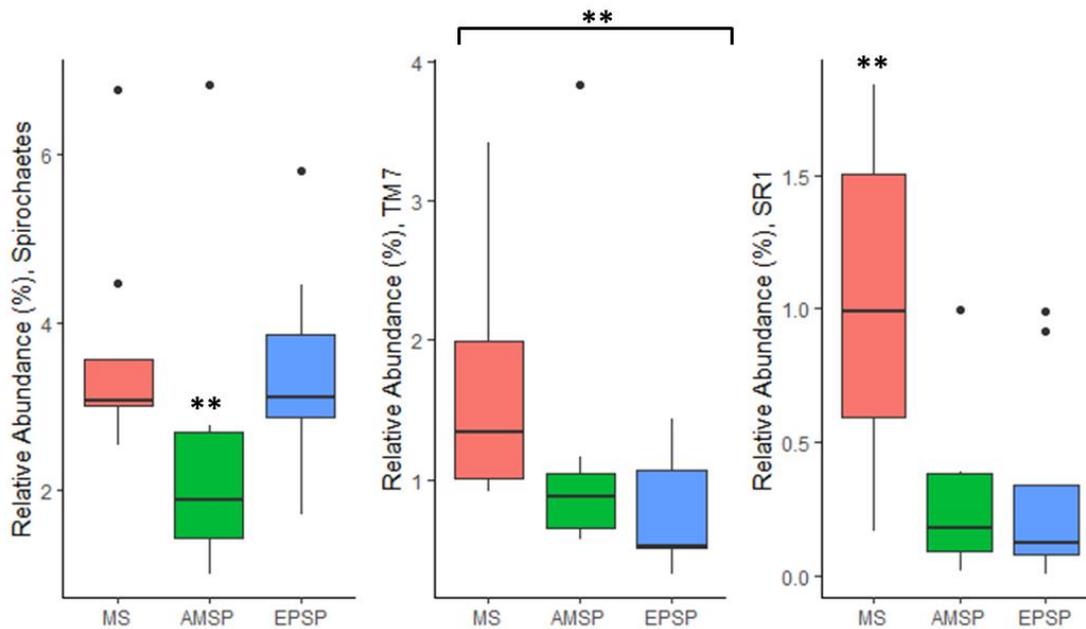
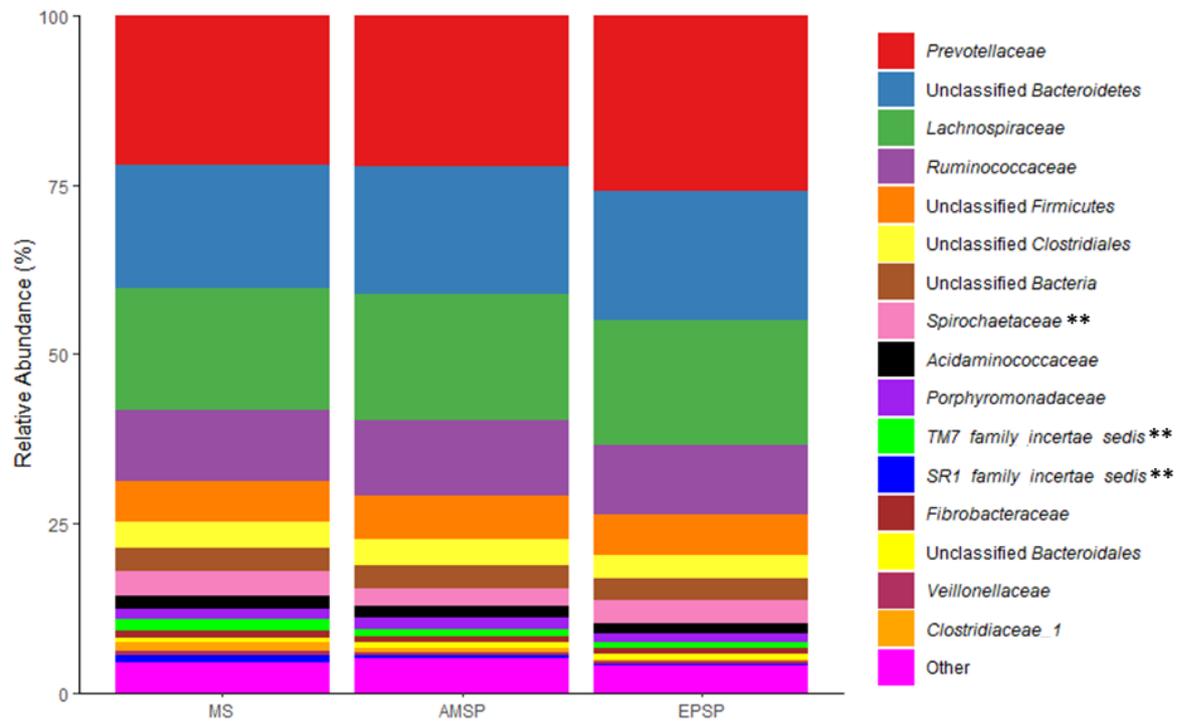


(a)

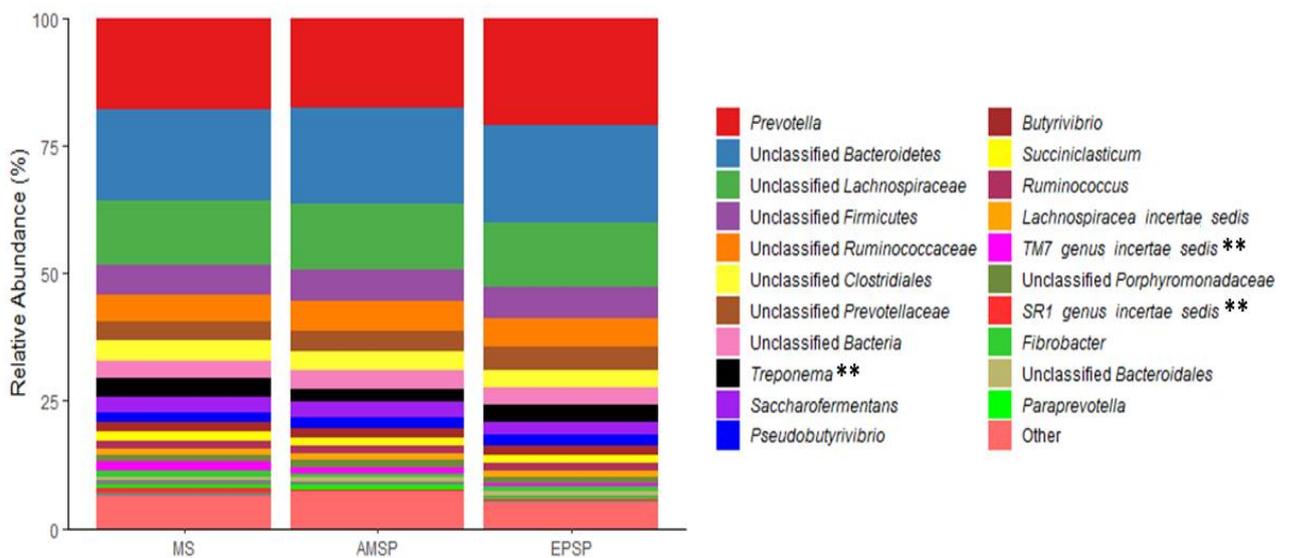


(b)

Figure 1: Effects of mineral supplementation (MS), added mineral supplementation plus phyto-genic blend (AMSP), or energetic-protein supplementation plus phyto-genic blend (EPSP) on the relative abundance at phylum level (a) and *Spirochaetes*, *TM7*, and *SR1* (b) relative abundance in the rumen of growing beef cattle on tropical pasture.



(a)



(b)

Figure 2: Effects of mineral supplementation (MS), added mineral supplementation plus phytogenic blend (AMSP) or energetic-protein supplementation plus phytogenic blend (EPSP) on the relative abundance at family (a) and genus (b) levels in the rumen of growing beef cattle on tropical pasture.