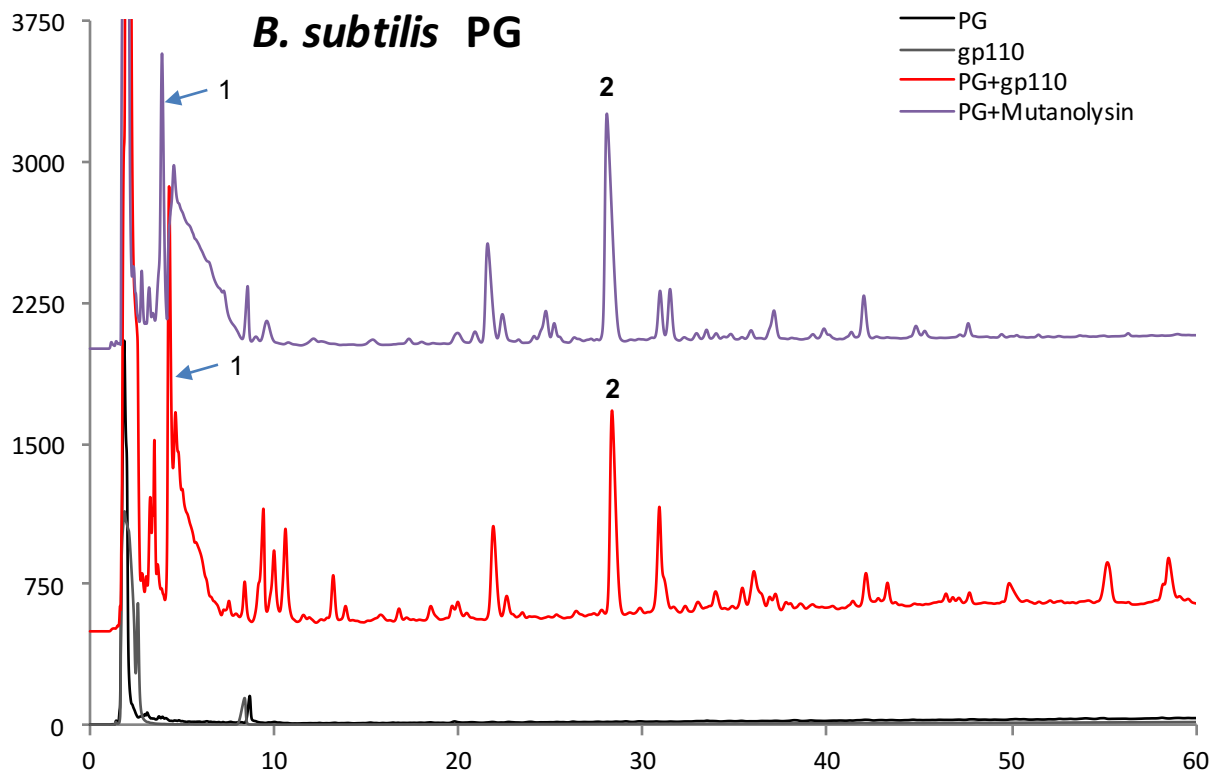
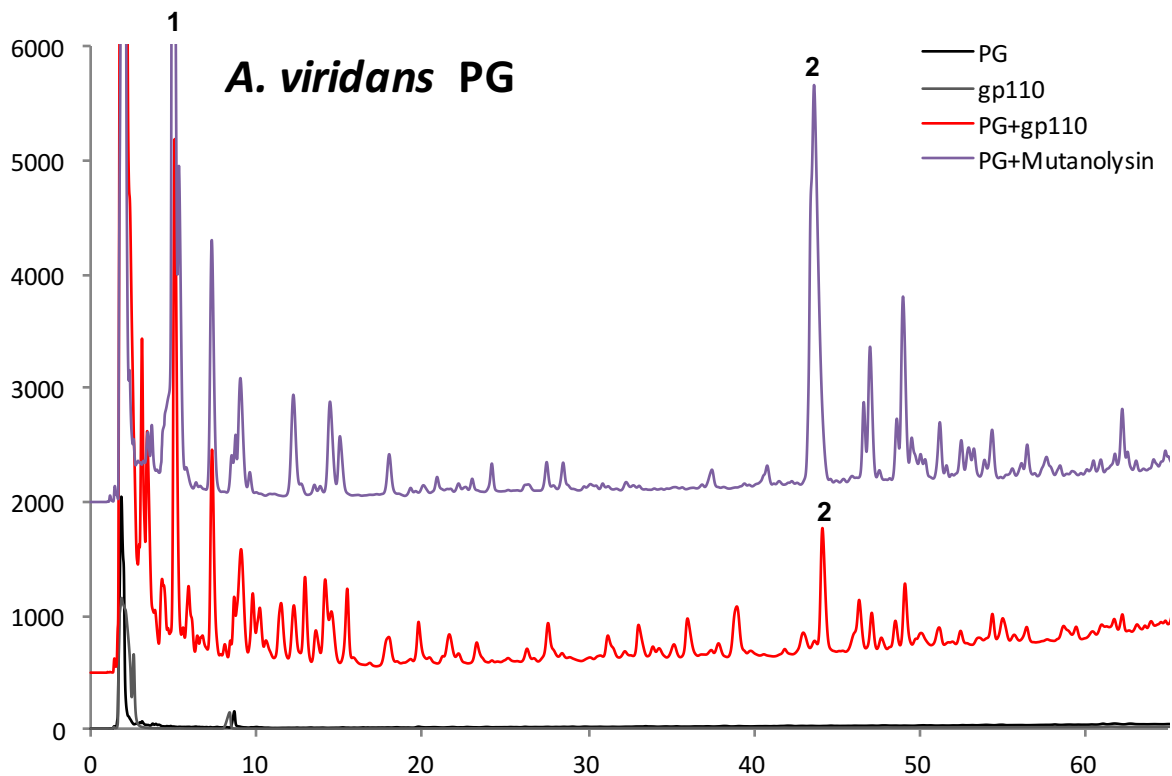
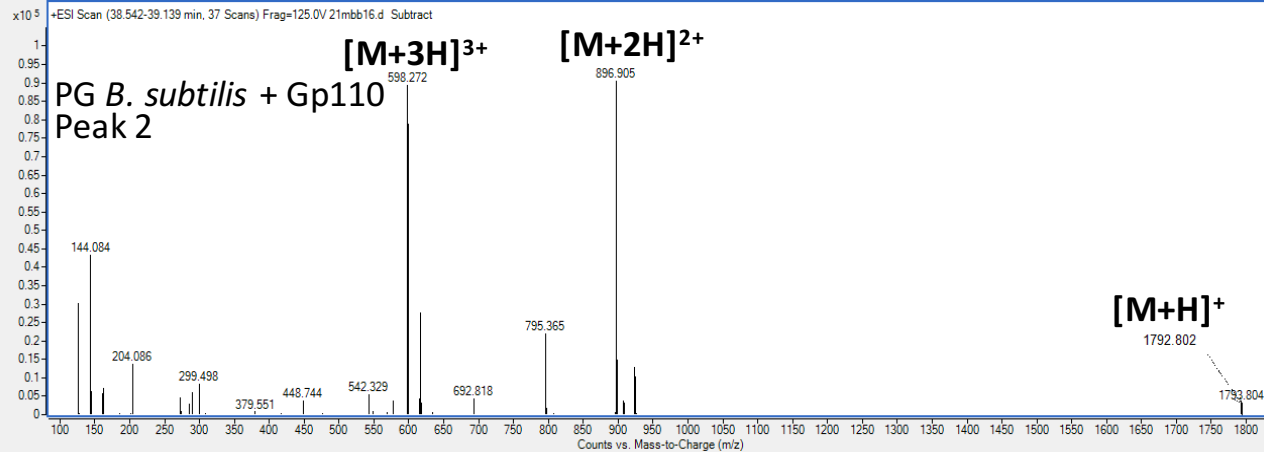
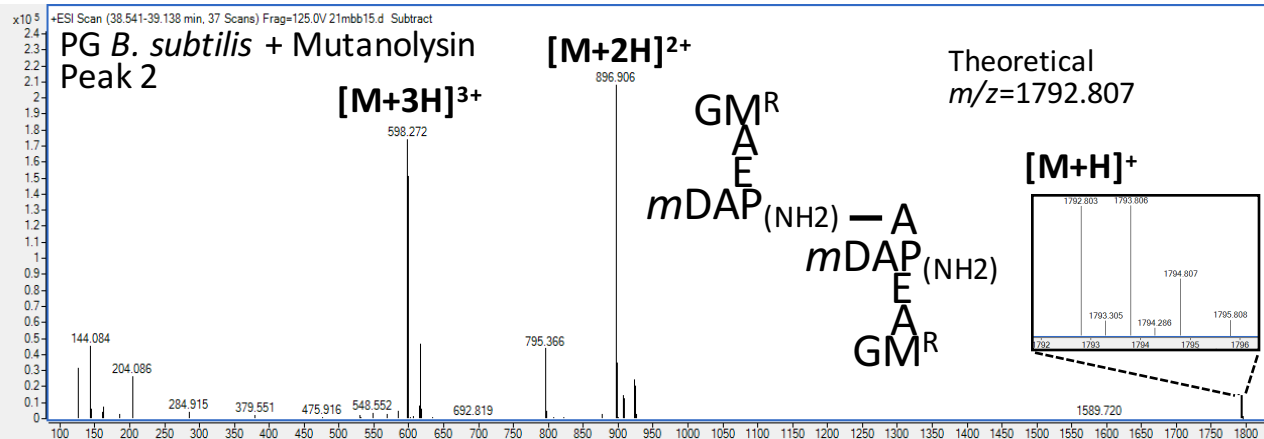
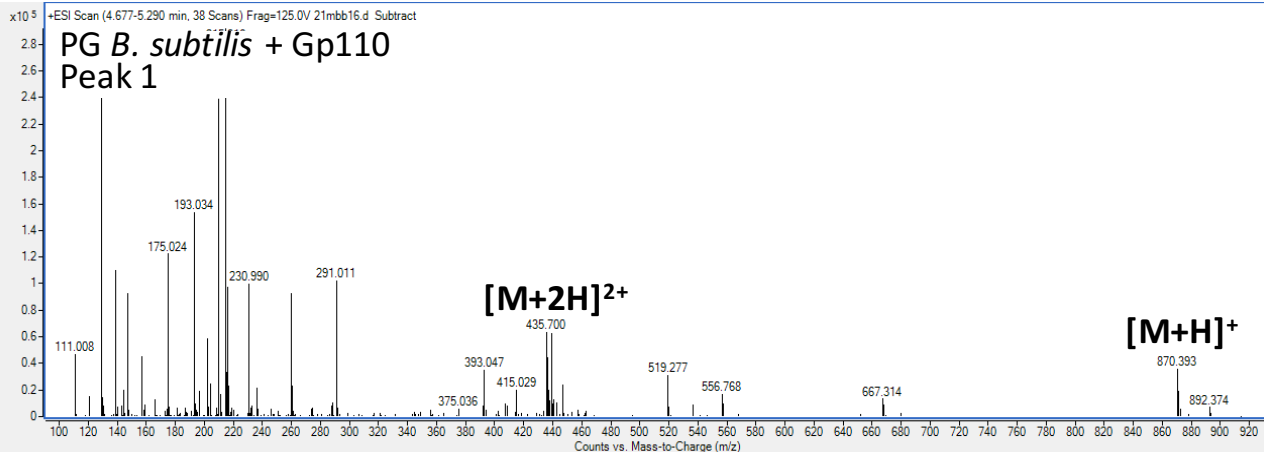
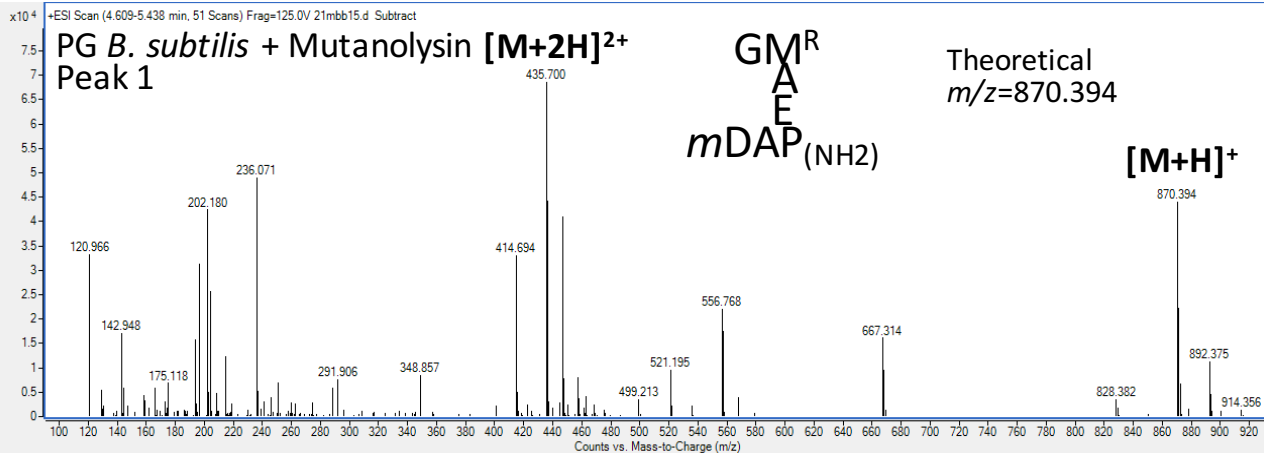
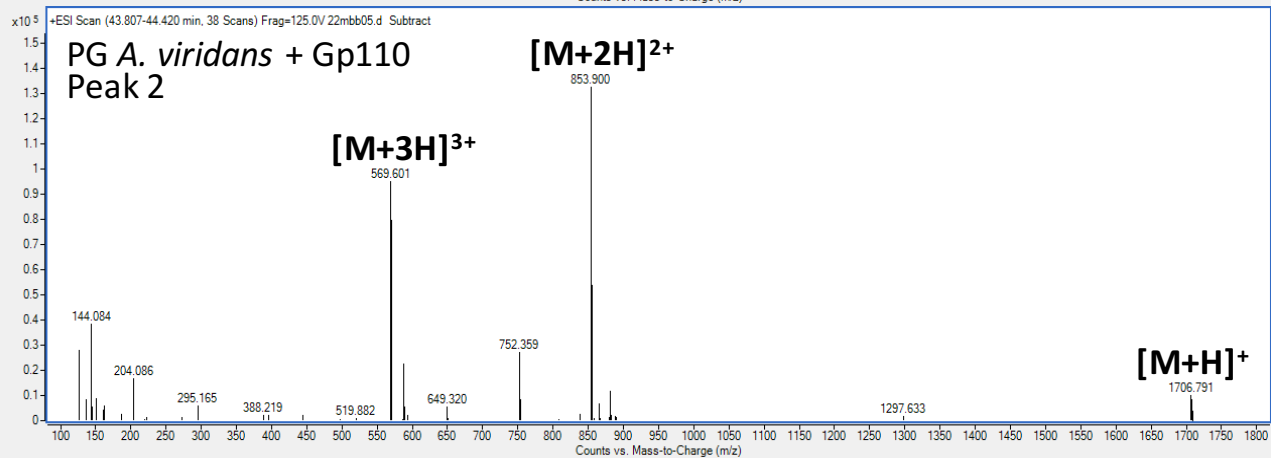
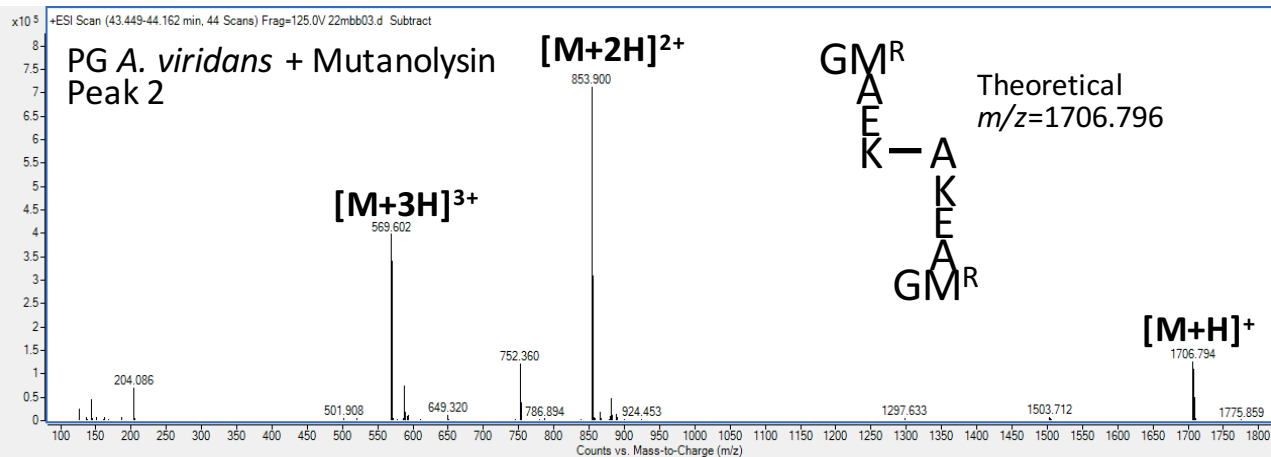
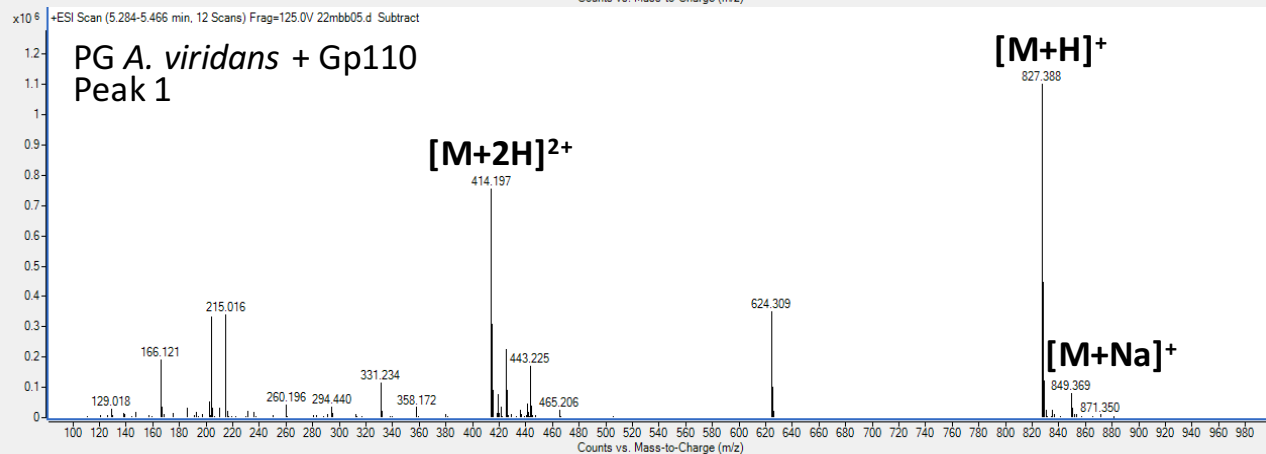
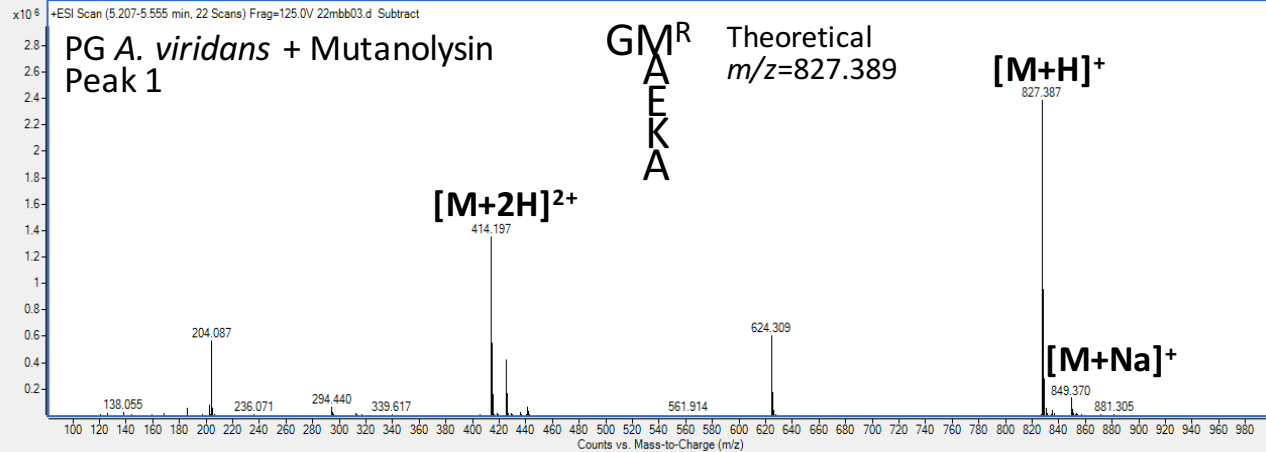


**A****B**

C



**D**

**Supplementary figure 1. LC-MS analysis of *B. subtilis* and *A. viridans* PG fragments solubilized by Gp110.** rp-HPLC profile of *B. subtilis* (A) and *A. viridans* muuropeptides (B) cleaved by Gp110 (red trace) and mutanolysin (purple trace). PG substrate alone and Gp110 alone were included as controls (black and grey traces, respectively). (C) Muuropeptides with  $m/z$  values matching major monomers and dimers (peaks 1 and 2) were analysed by MS/MS. The fragmentation pattern of the protonated ions confirmed that similarly to mutanolysin, Gp110 cleaves *B. subtilis* and *A. viridans* PG. Relevant ions are described above the corresponding  $m/z$  values. A, L-Ala or D-Ala;  $\alpha$ , C-terminal D-Ala;  $m$ -DAP, meso-diaminopimelic acid; E,  $\gamma$ -D-Glu;  $M^R$ , reduced MurNAc; G, GlcNAc.