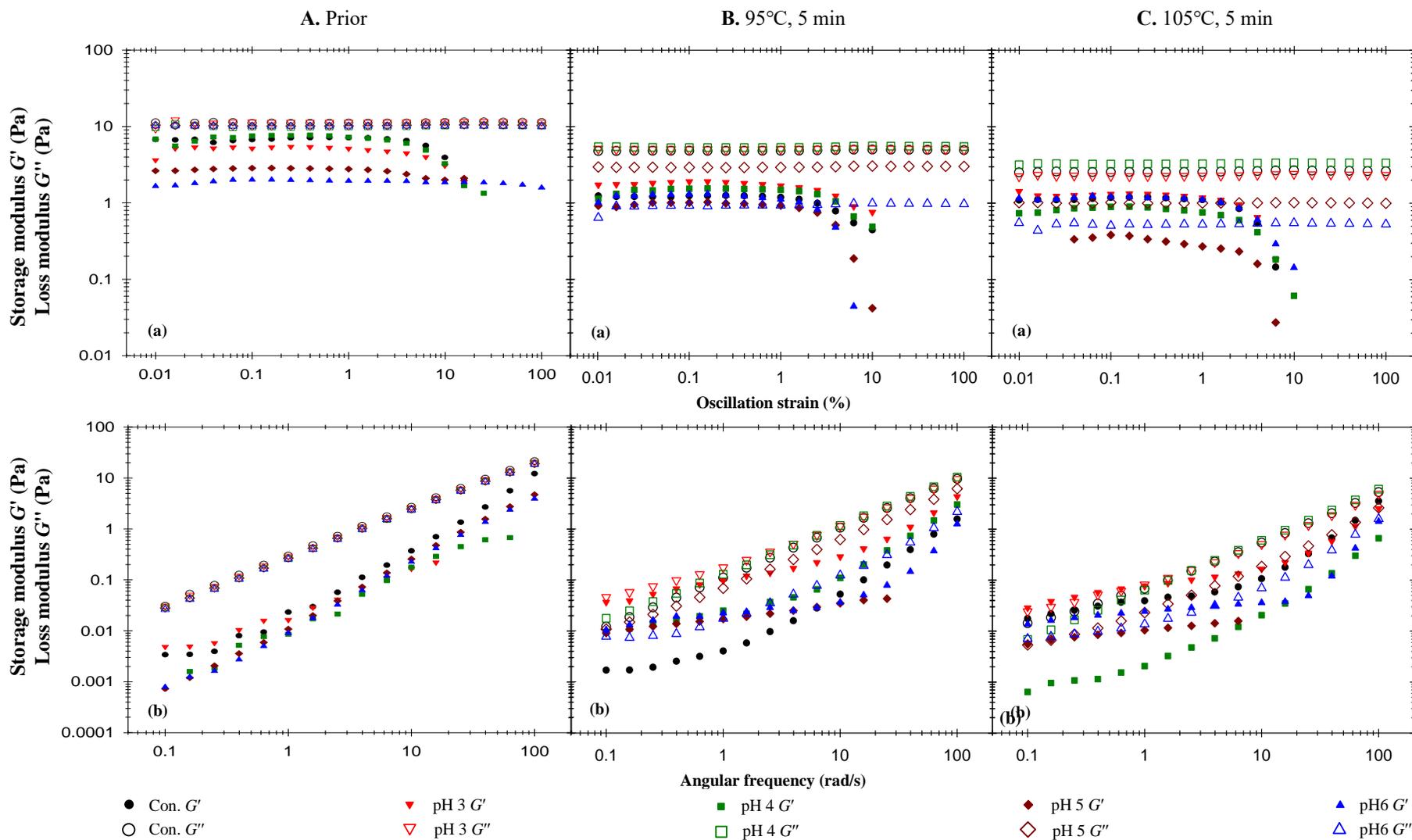
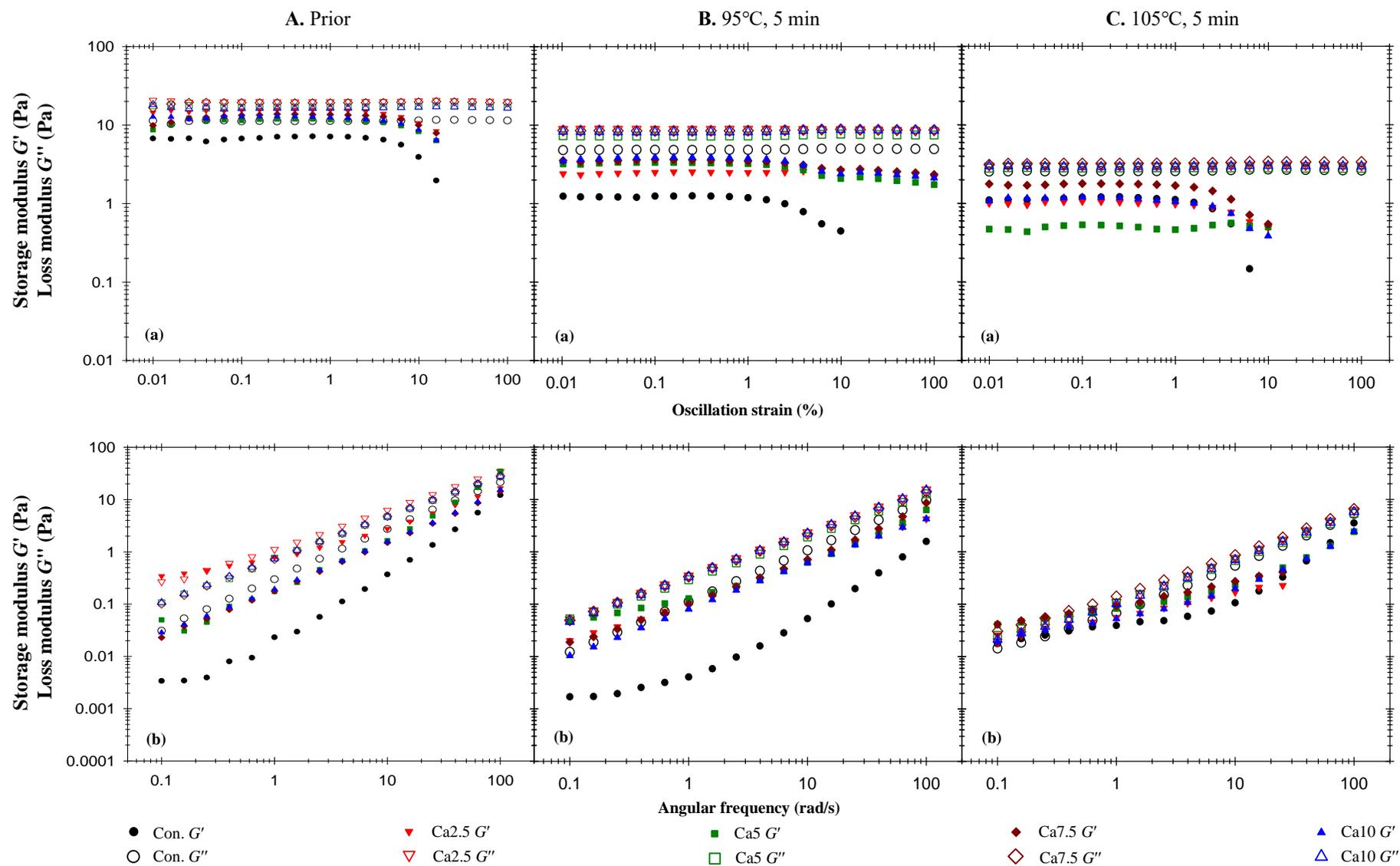


Appendix A. The measured center temperature profile of the 2 wt% high-methoxy AP matrix experienced the preset thermal processes with different time-temperature combinations.



Appendix B. The effects of pH on storage modulus (G') and loss modulus (G'') of the 2% AP matrices experiencing different thermal processing conditions: **A.** after a 95°C for 5 min process and **B.** after a 105°C for 5 min process; **(a)** oscillatory strain sweeps at the frequency of 50 rad/s, and **(b)** angular frequency sweeps at 1% strain.



Appendix C. The effects of added calcium chloride anhydrous on storage modulus (G') and loss modulus (G'') of the 2% AP experiencing a 95°C thermal process for 5 min: **(a)** oscillatory strain sweeps at the frequency of 50 rad/s, and **(b)** angular frequency sweeps at 1% strain.