Supporting Information

Wave-transparent LAS Enabling Superior Bandwidth Electromagnetic Wave Absorption of 2D Pitaya Carbon Slice

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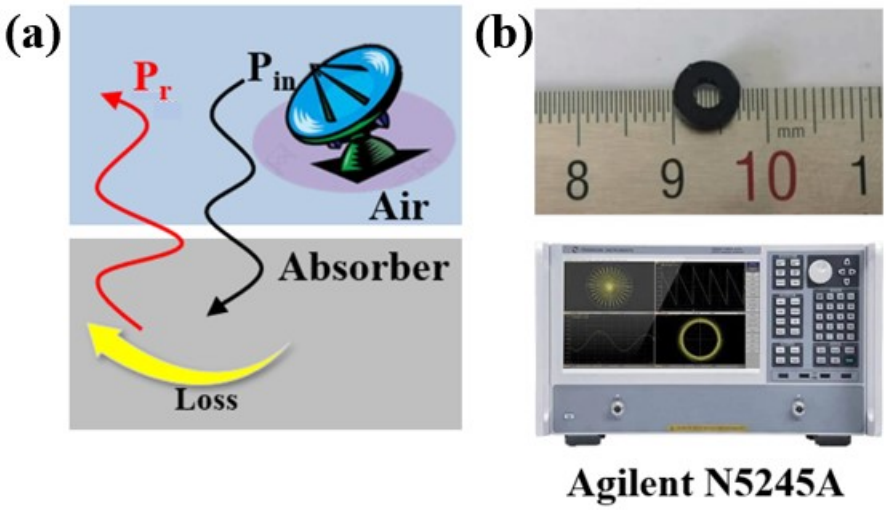

Fig. S1. Schematic illustration of EWA models(a); the photographs of the test sample and instrument (b).

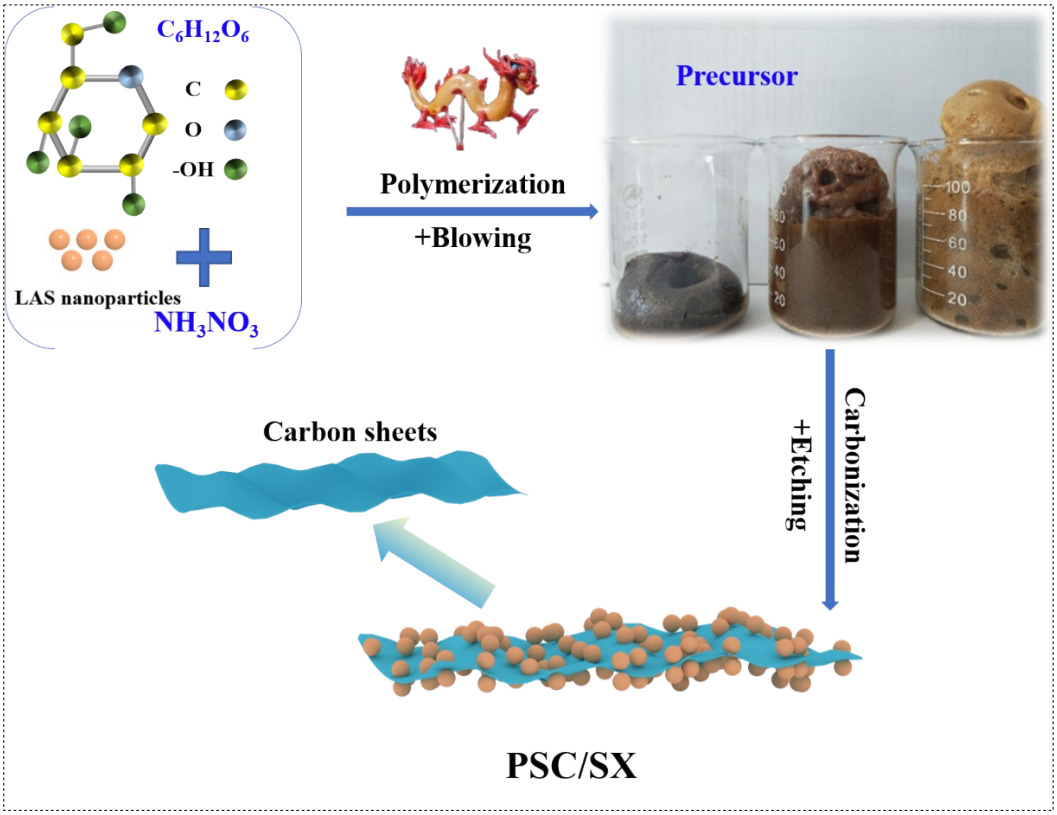

Fig. S2. Schematic fabrication process of PSC/S2.

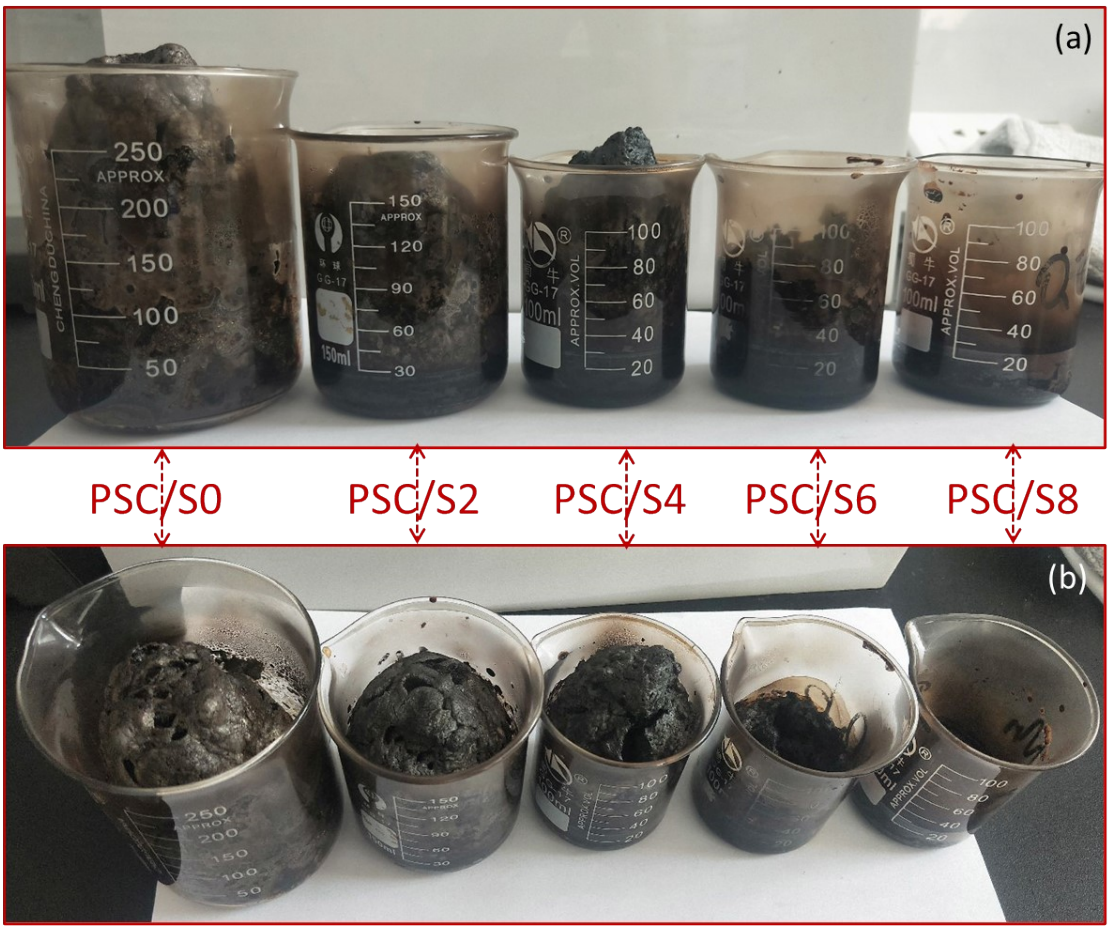

Fig. S3. The precursor photographs of PSC/S0, PSC/S2, PSC/S4, PSC/S6 and PSC/S8: side view (a), front view (b).

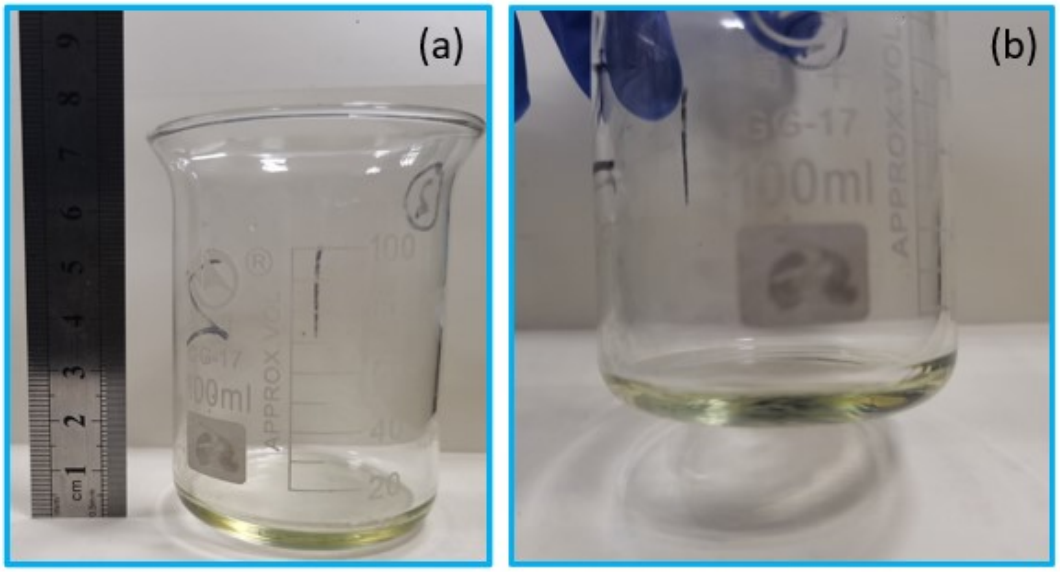

Fig. S4. The photographs of glucose self-polymerization sample (BC): front view (a), side view (b).

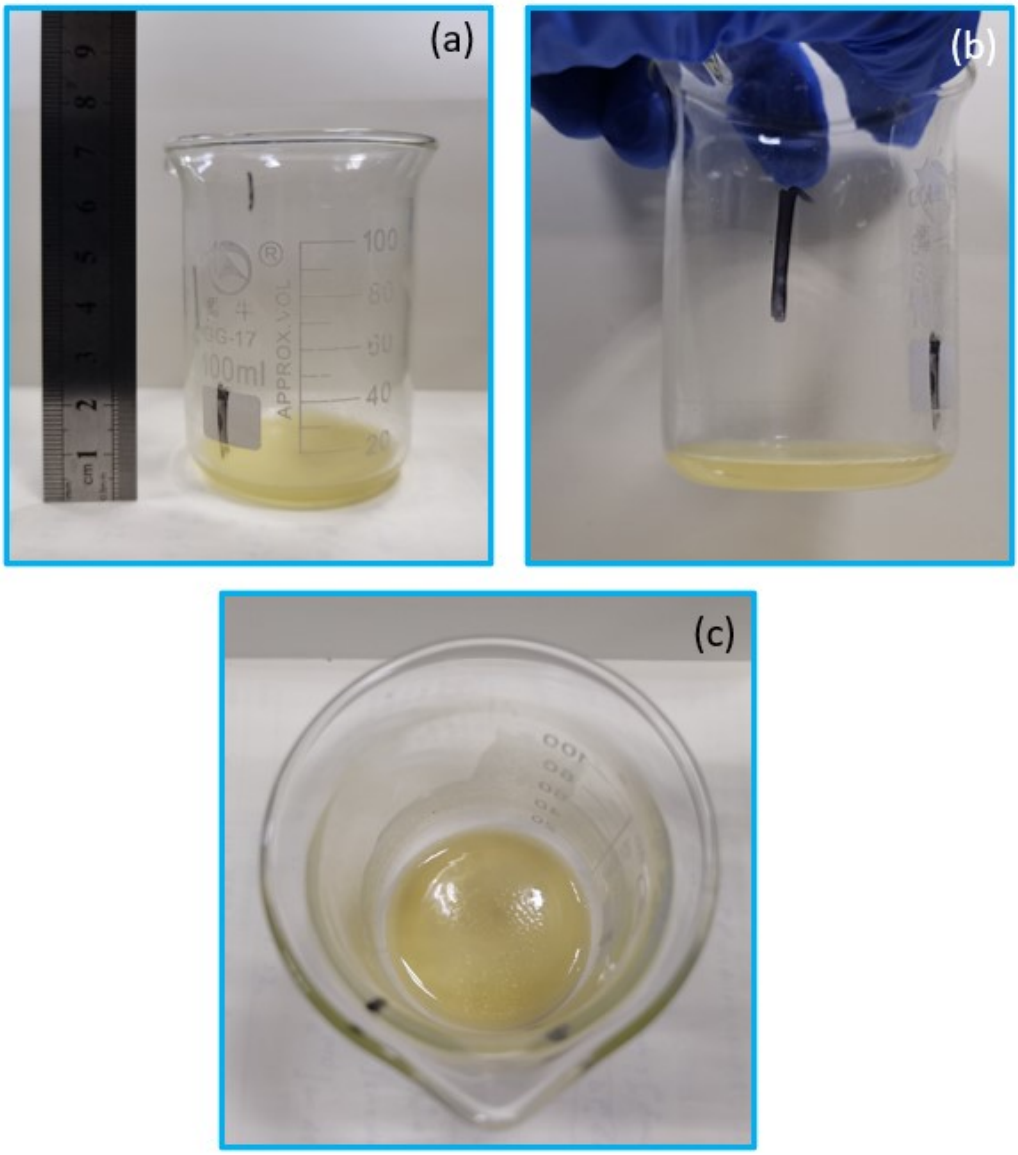

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Fig. S5. The photographs of the glucose self-polymerization sample with nano-LAS as filler (BC/S): front view (a), side view (b), top view (c).

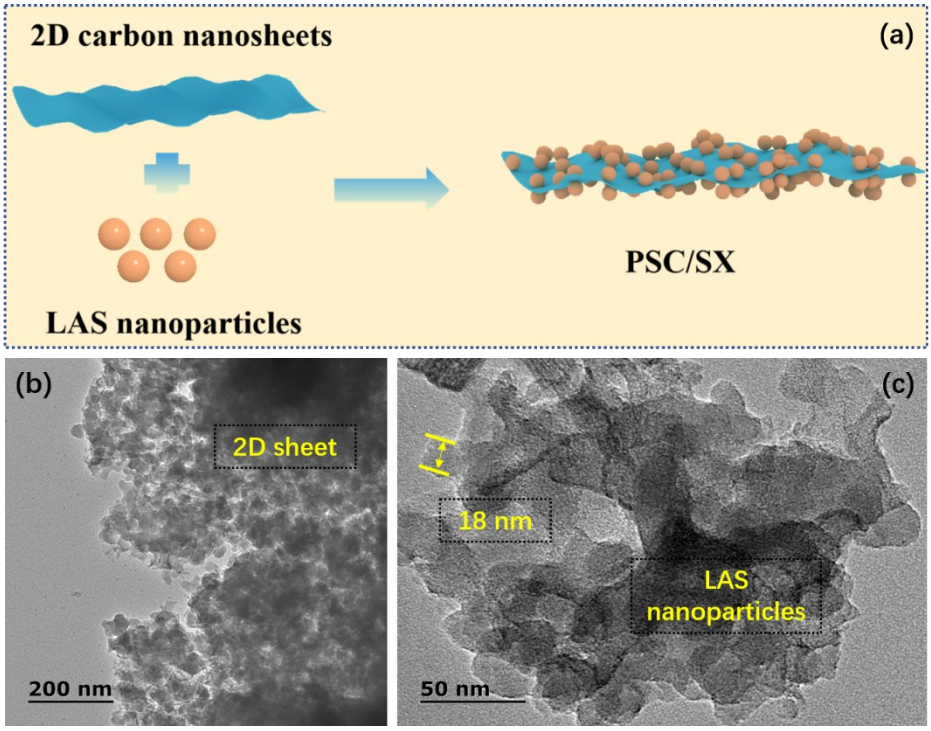

Fig. S6. Schematic diagram (a) and TEM images (b-c) of PSC/S2.

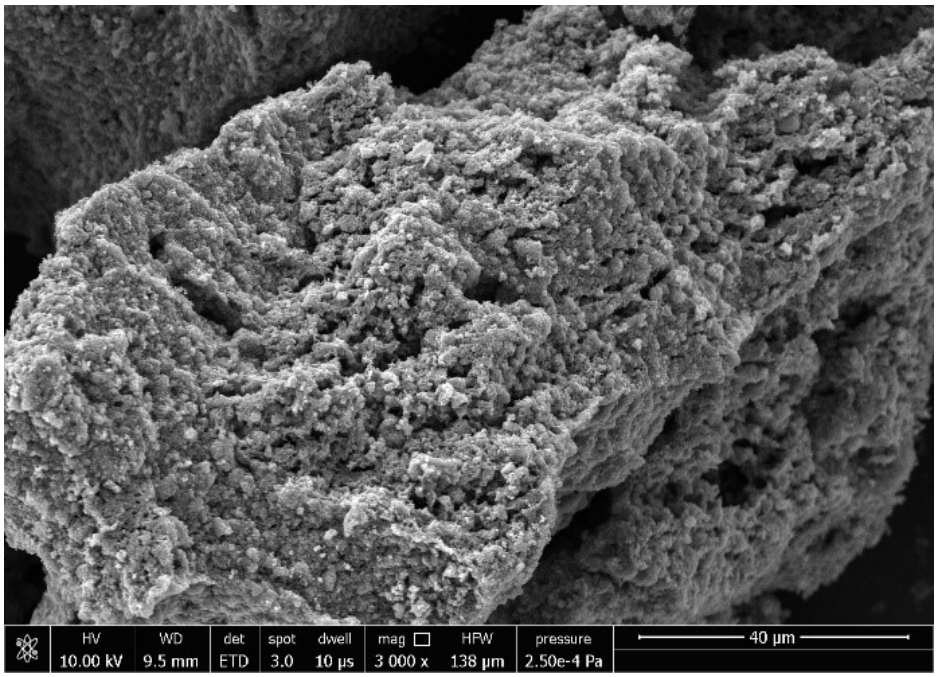

Fig. S7. Low magnification SEM images of the samples PSC/S8.

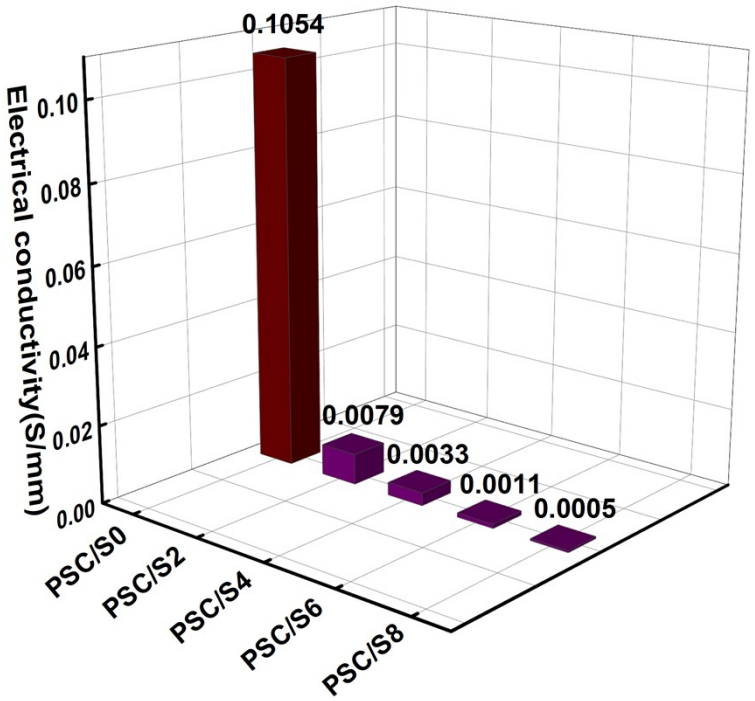

Fig. S8. Electrical conductivity of PSC/SX.

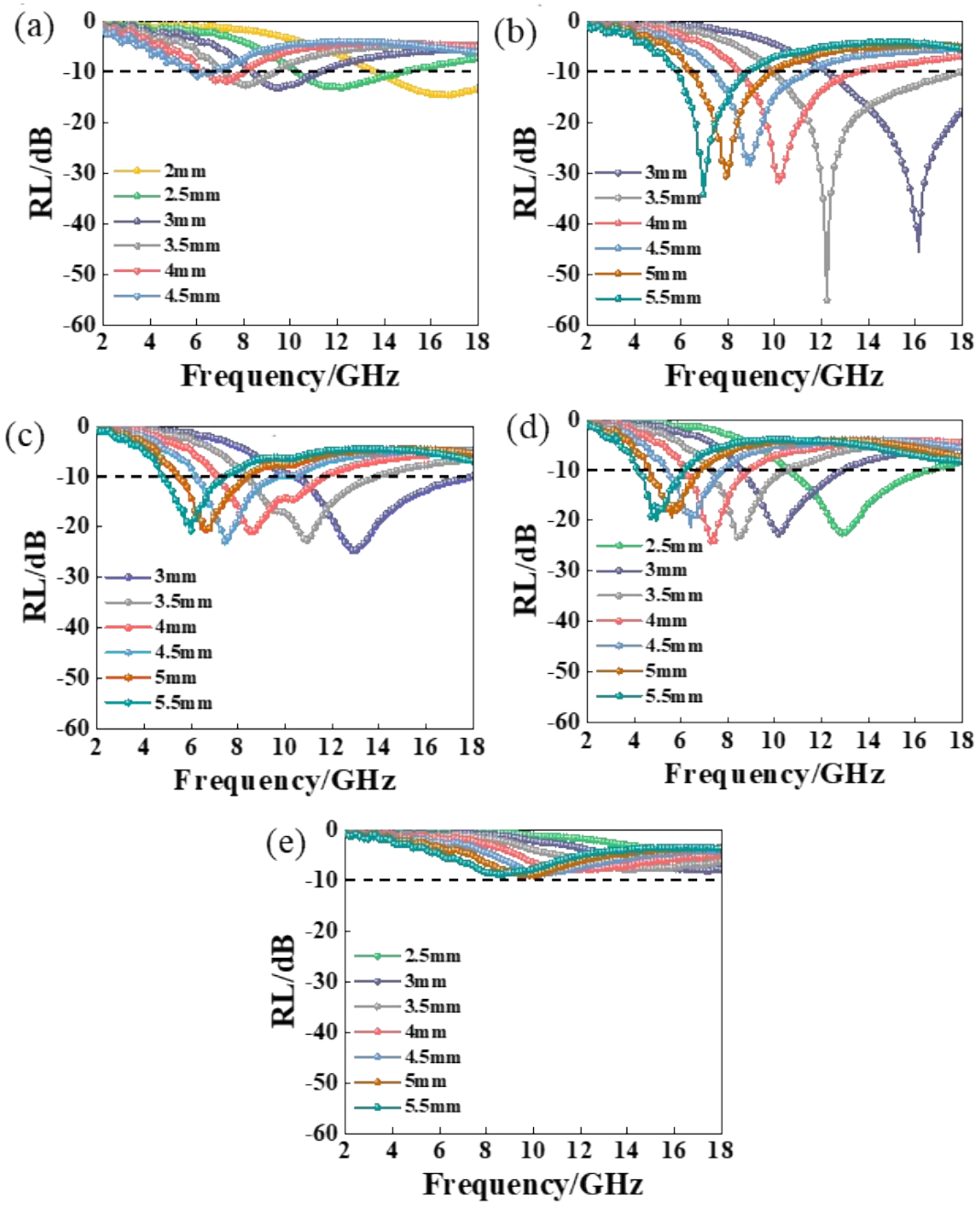

Fig. S9. The RL values vs. frequency at different thickness of PSC/S0 (a), PSC/S2 (b), PSC/S4 (c), PSC/S6 (d), and PSC/S8 (e).

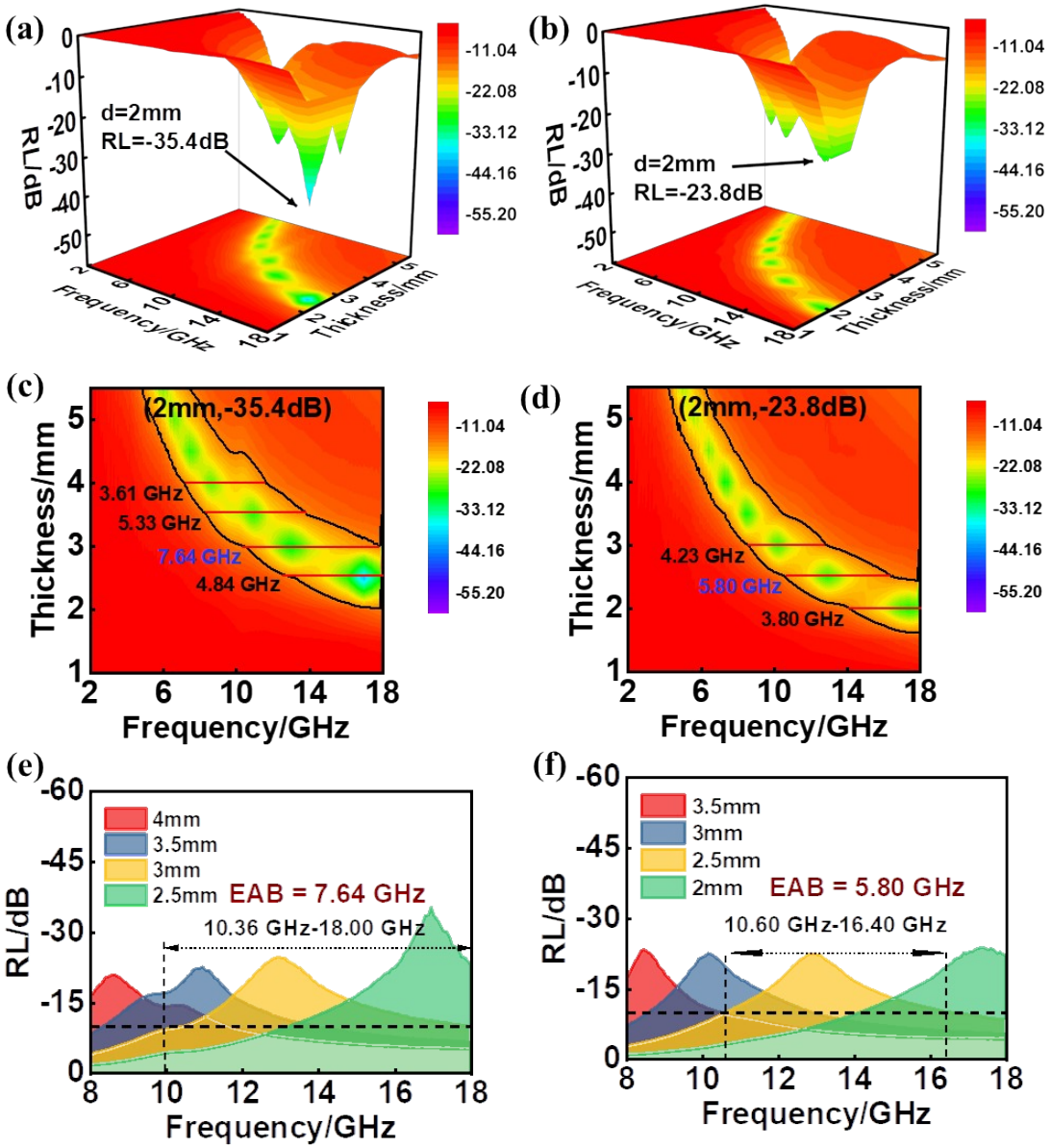

Fig. S10. 3D representation of RL (a, b); 3D projection plots of RL (c, d); the RL curves at different thicknesses (e, f).

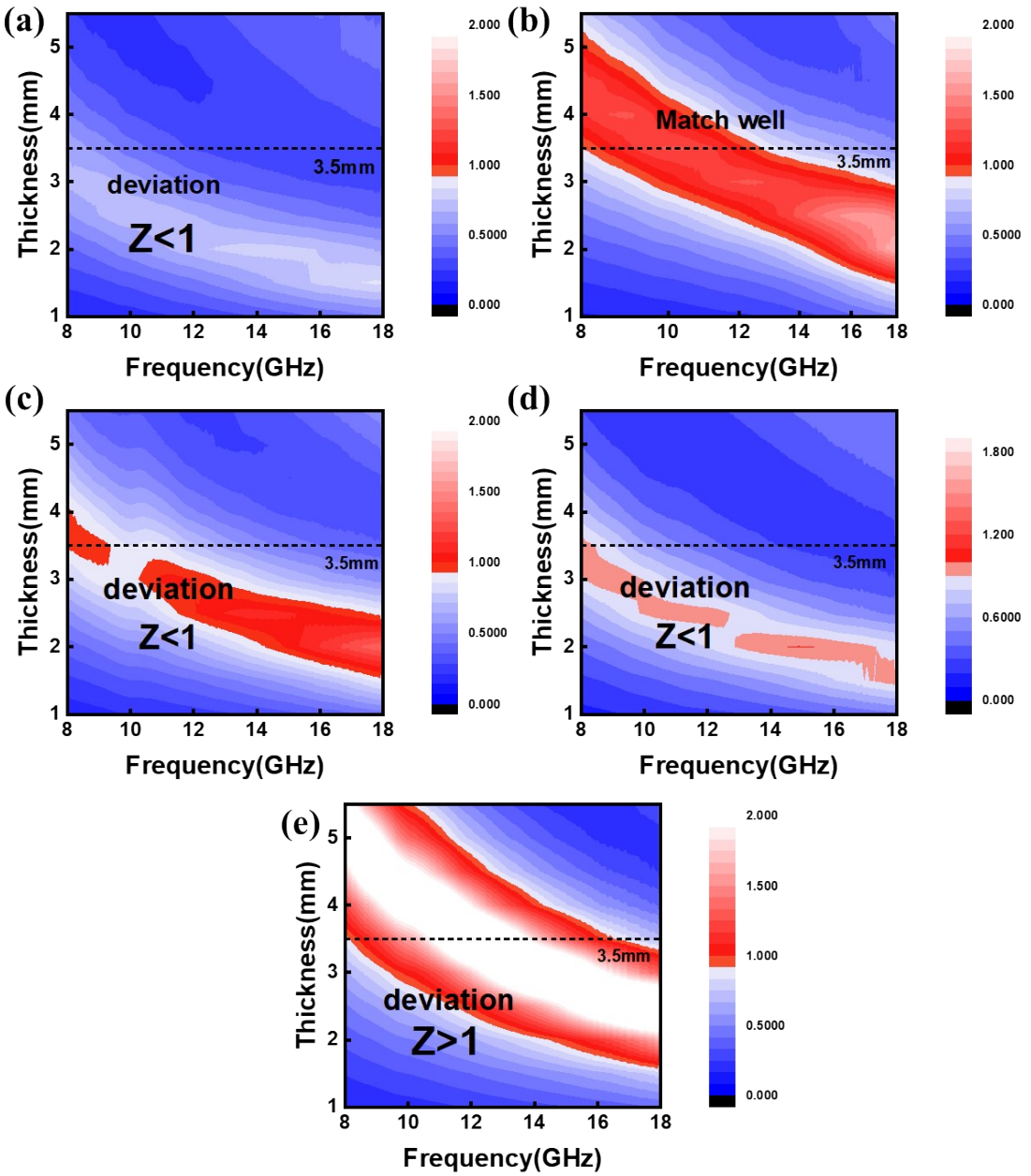

Fig. S11. Impedance matched 3D projection map of PSC/S0 (a), PSC/S2 (b), PSC/S4 (c), PSC/S6 (d), and PSC/S8 (e).

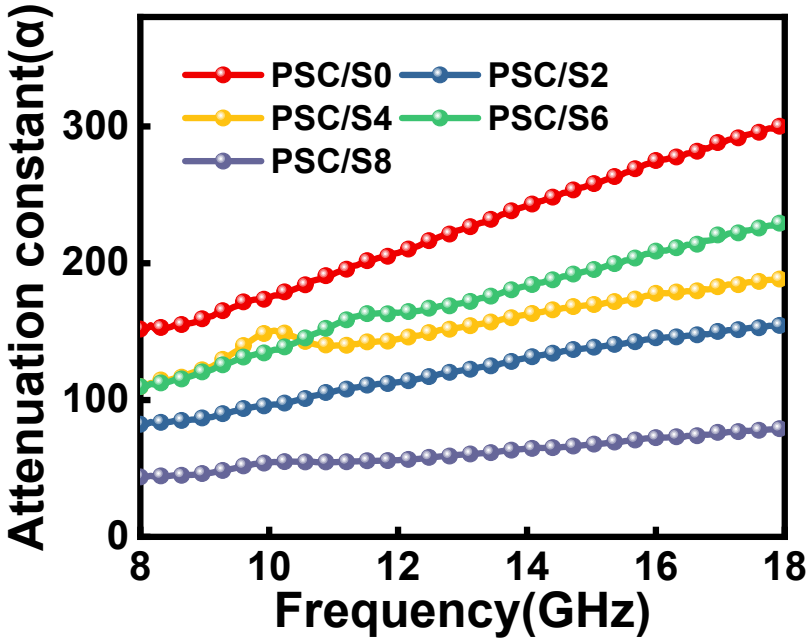

Fig. S12. Attenuation constant α of PSC/S0, PSC/S2, PSC/S4, PSC/S6 and PSC/S8.