

Supporting Information

Synthesis and Characterization of Polyaniline Nanoparticles with Enhanced Microwave Absorption

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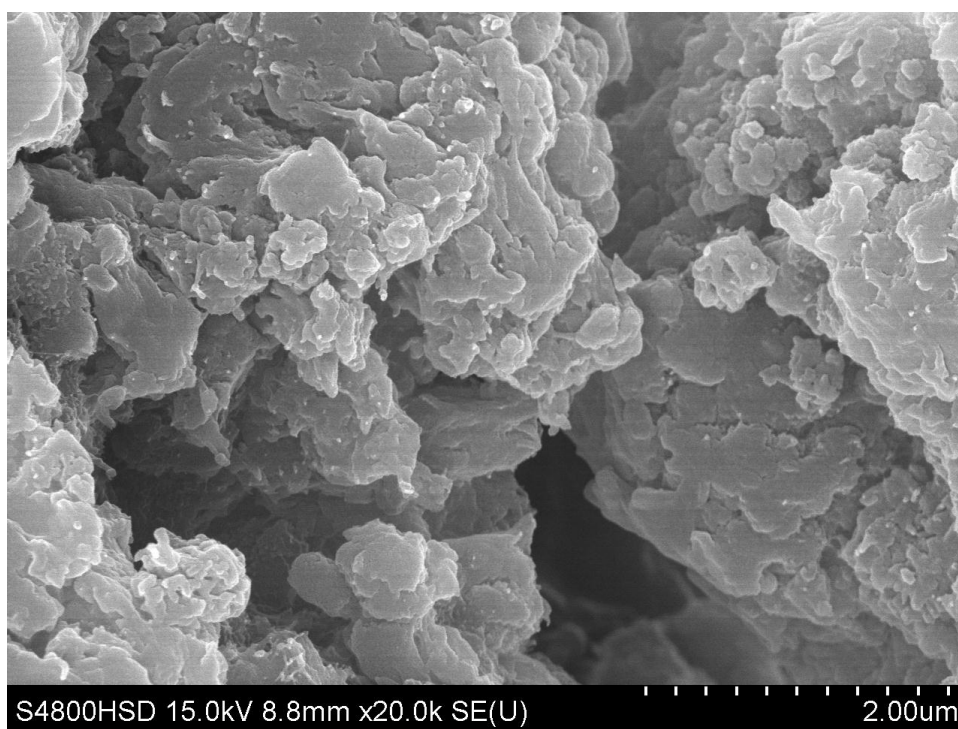


Figure S1 SEM image of C-PANI.

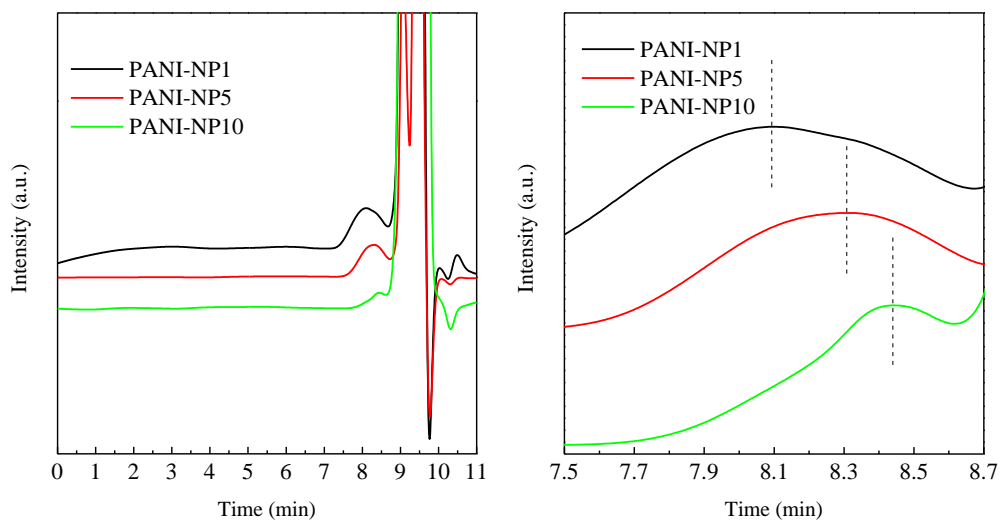


Fig. S2 The elution profiles of PANI-NP1, PANI-NP5 and PANI-NP10 in GPC (left); the magnification of the range from 7.5 to 8.7 min (right).

Table S1 The relative molecule weights from GPC.

	<i>M_n</i>	<i>M_w</i>	<i>M_z</i>
PANI-NP1	271.11	286.95	303.01
PANI-NP5	251.64	264.68	278.06
PANI-NP10	245.38	260.18	275.04

M_n: Number-average molecular weight;

M_w: Weight-average molecular weight;

M_z: Z-average molecular weight;

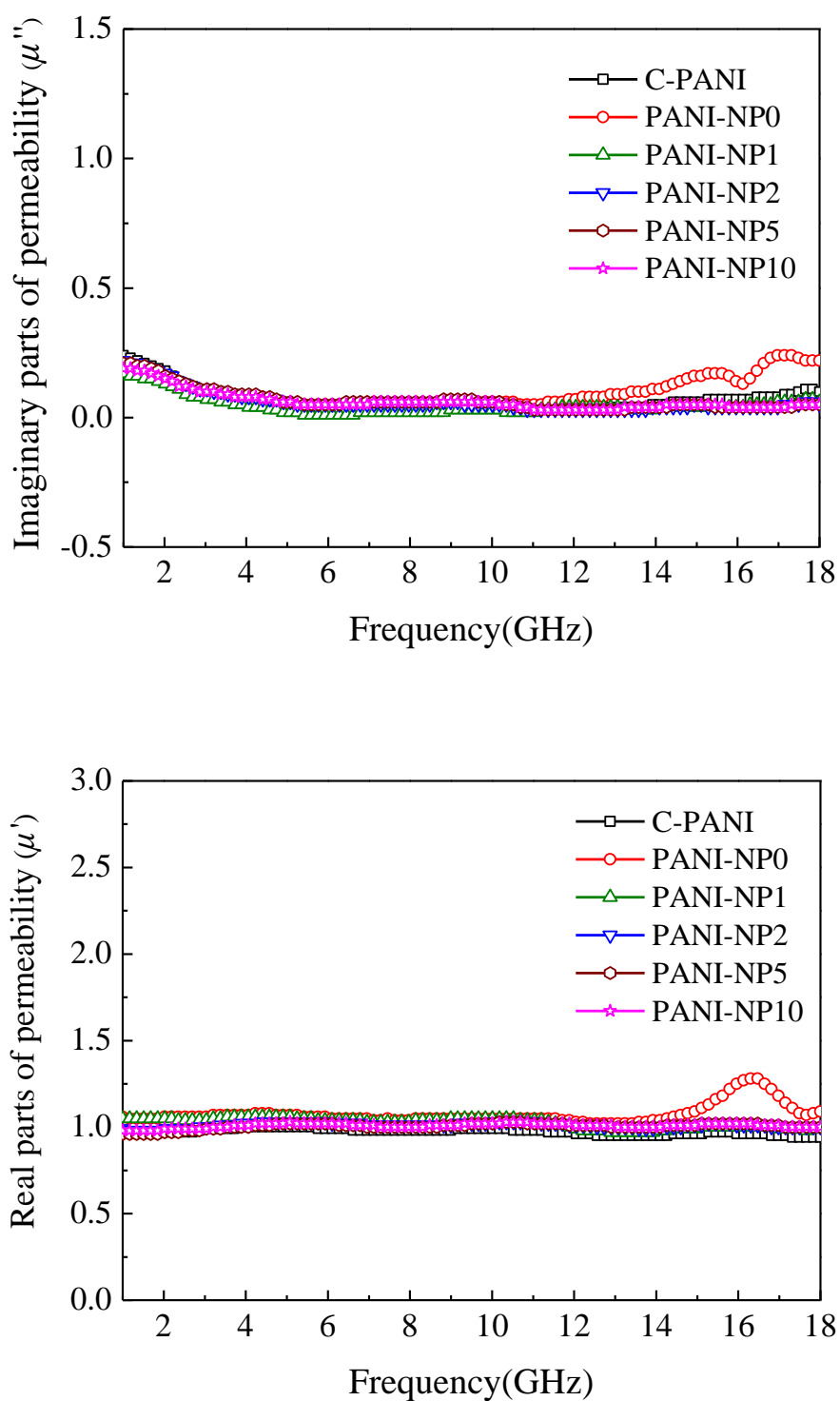


Figure S3 Real parts (μ') and imaginary parts (μ'') of complex permeability of C-PANI and PANI-NP_x in the frequency range of 1-18 GHz.

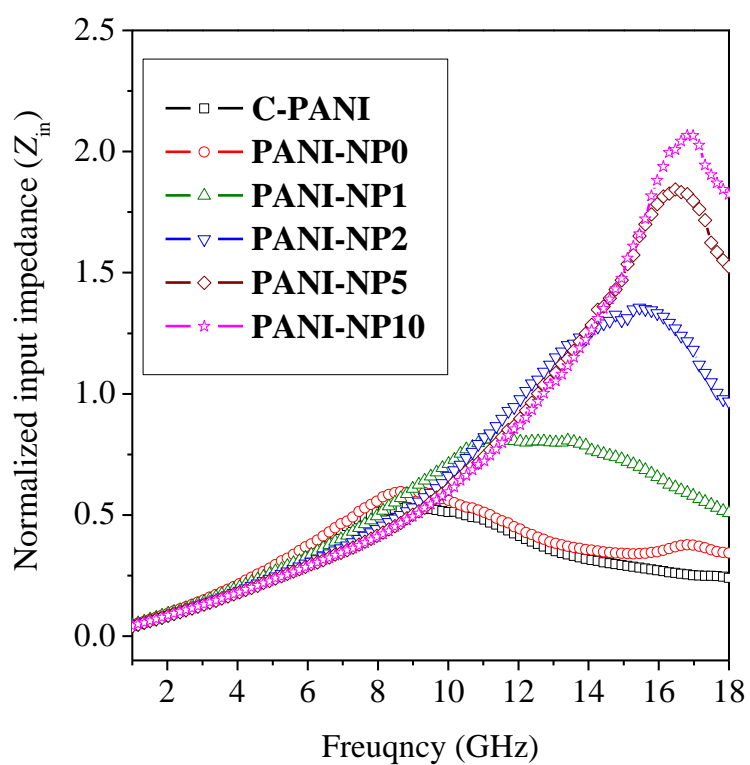


Fig. S4 Normalized input impedance (Z_{in}) of C-PANI and PANI-NP x with an absorber thickness of 2 mm in the frequency range of 1-18 GHz.