## Surface Wave Cloak from Graded Refractive Index Nanocomposites

**Supplementary Material** 

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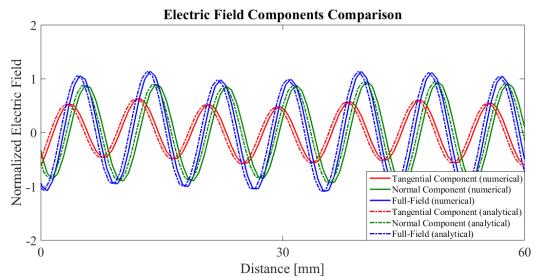
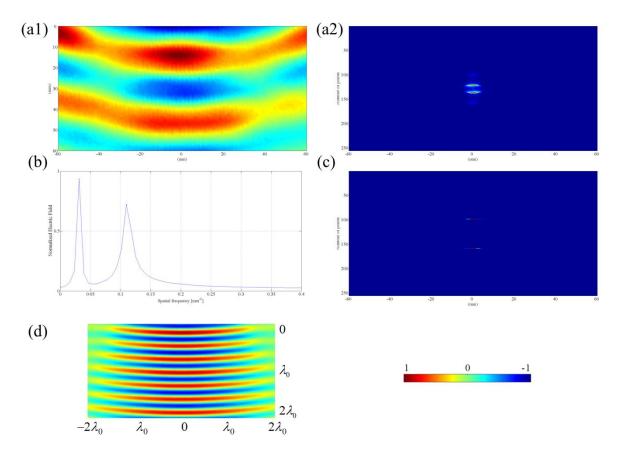


Figure S1: Normal and Tangential components comparison (analytical and numerical results) for the Electric Field



**Figure S2:** Example of FFT procedure for GIS at 10 GHz ( $\lambda_0=30$  mm): (a1) Electric Field Measured (before spectral analysis) and (a2) Electric Field 2D Spatial Frequency Fourier Transform; (b) Spatial Frequency Spectrum; (c) Surface Wave Component 2D Spatial Frequency Fourier Transform and (d) Surface wave conversion in the spatial domain.

Desired permittivity	Real permittivity	Imaginary permittivity
9	8.8	0.5
10	9.9	0.6
11	11.1	0.7
12	12.0	0.8
13	12.6	0.9
14	13.7	1.0
15	13.9	1.0

**Table S1:** Desired permittivity and measured values of real permittivity and imaginary permittivity at 10GHz.