Supplementary Information

Figure S1. Two-port coaxial fixture used in measuring the complex scattering parameters (S_{11}, S_{21}) .

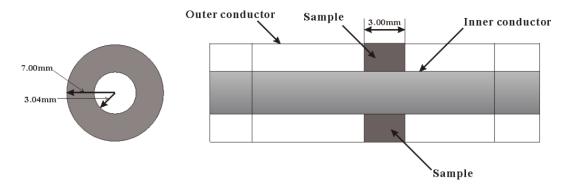
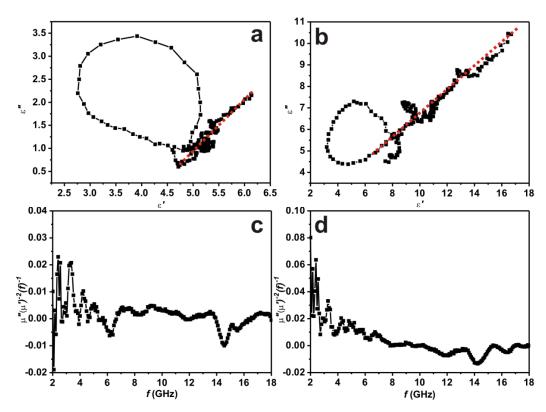


Figure S2. (a,b) *Cole-Cole* semicircles and (c,d) values of $\mu''(\mu')^{-2} f^{-1}$ as a function of frequency for α -Fe₂O₃ microdendrites and OMC@ α -Fe₂O₃ core-shell nanorods, respectively.



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