Mn$_3$O$_4$/Graphene Nanocomposites: Outstanding Performances as High Efficient Photocatalysts and Microwave Absorbers

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**Figure S1:** Adsorption-desorption isotherms of RGO, G3M1 and G1M1 samples together with their corresponding pore size distributions.
Figure S2: UV-vis spectra of MB while degradation using G3M1 under visible illumination and the inset is the TOC% of the same composite.