

Supplementary Materials for

Naturally occurring montmorillonite-based polymer monolith composites as stationary phases
for capillary liquid and gas chromatography

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Summary

This supporting information files includes additional results as described in the main article:

-Figure captions

-Figures S1 to S4

Figure captions

Figure S1 the N₂ adsorption and desorption isotherms of (A) poly(GMA-co-EDMA) and (B) MMT@poly(GMA-co-EDMA) composite.

Figure S2 TGA plots of the MMT@poly(GMA-co-EDMA) composites corresponding to 1.0 mg mL⁻¹ MMT (A) and 5.0 mg mL⁻¹ MMT (B). The samples were heated from 25 to 500°C with a heating rate of 10°C min⁻¹.

Figure S3 Typical GC chromatogram of alkylbenzene series (12.5%, v/v% for each compound) at the optimal conditions using a commercial open-tubular capillary column. Compounds by order of elution: benzene, toluene, ethylbenzene, propylbenzene, butylbenzene, pentylbenzene, hexylbenzene, and heptylbenzene.

Figure S4 Typical HPLC chromatogram of alkylbenzene series (10 µg mL⁻¹ for each compound) at the optimal conditions using a commercial packed column. Compounds by order of elution: benzene, toluene, ethylbenzene, propylbenzene, butylbenzene, pentylbenzene, hexylbenzene, and heptylbenzene.

Figure S1

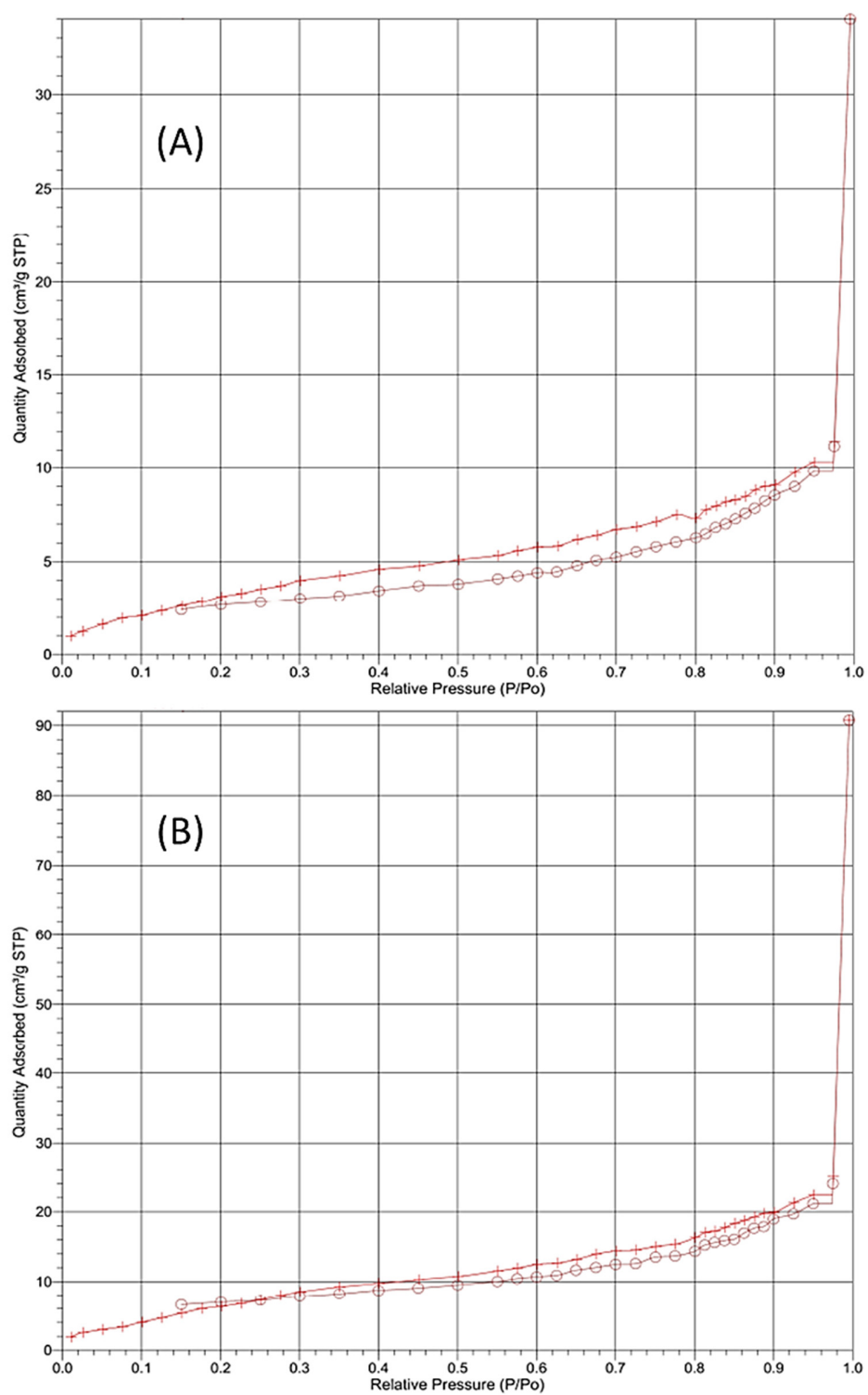


Figure S2

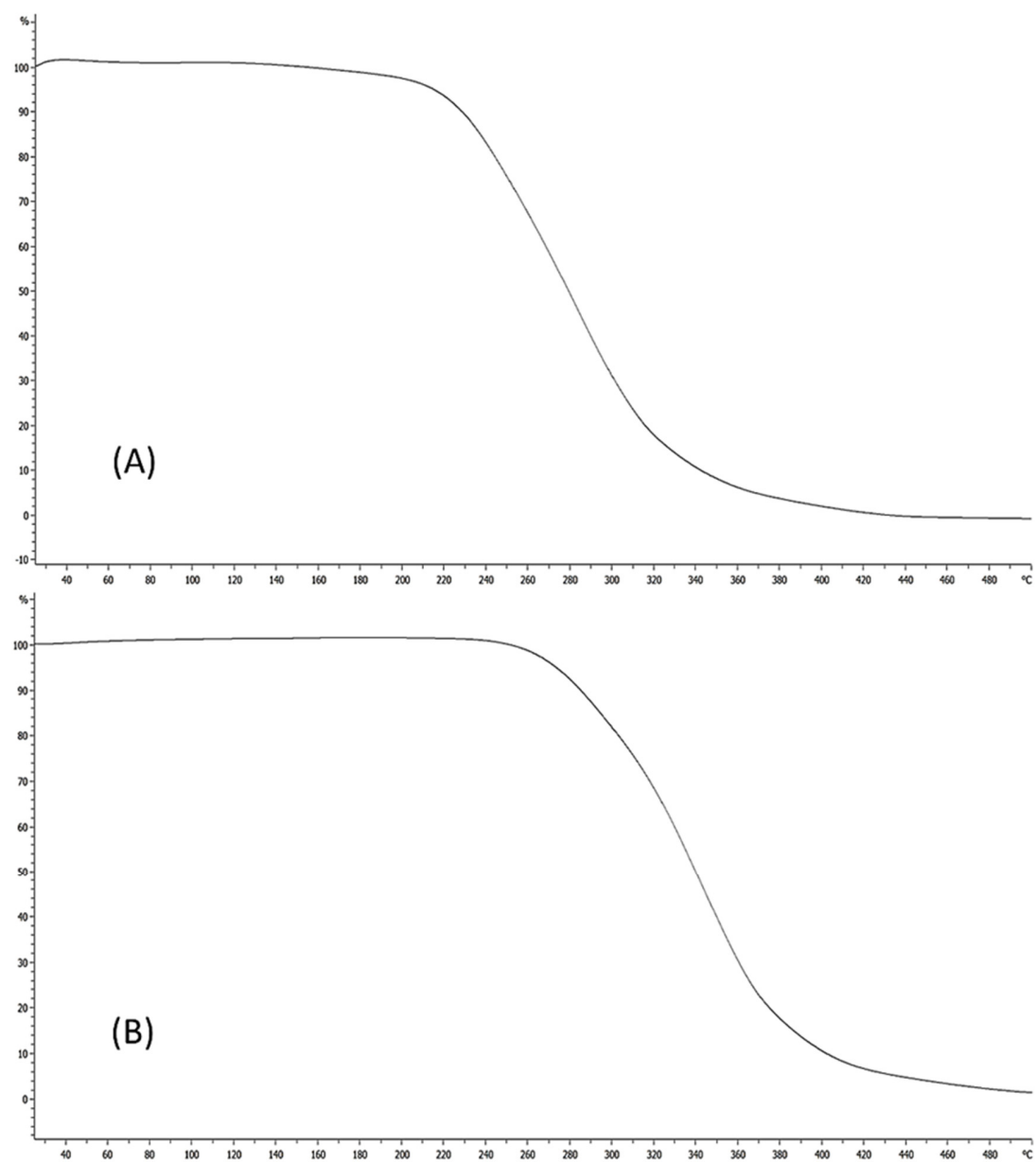


Figure S3

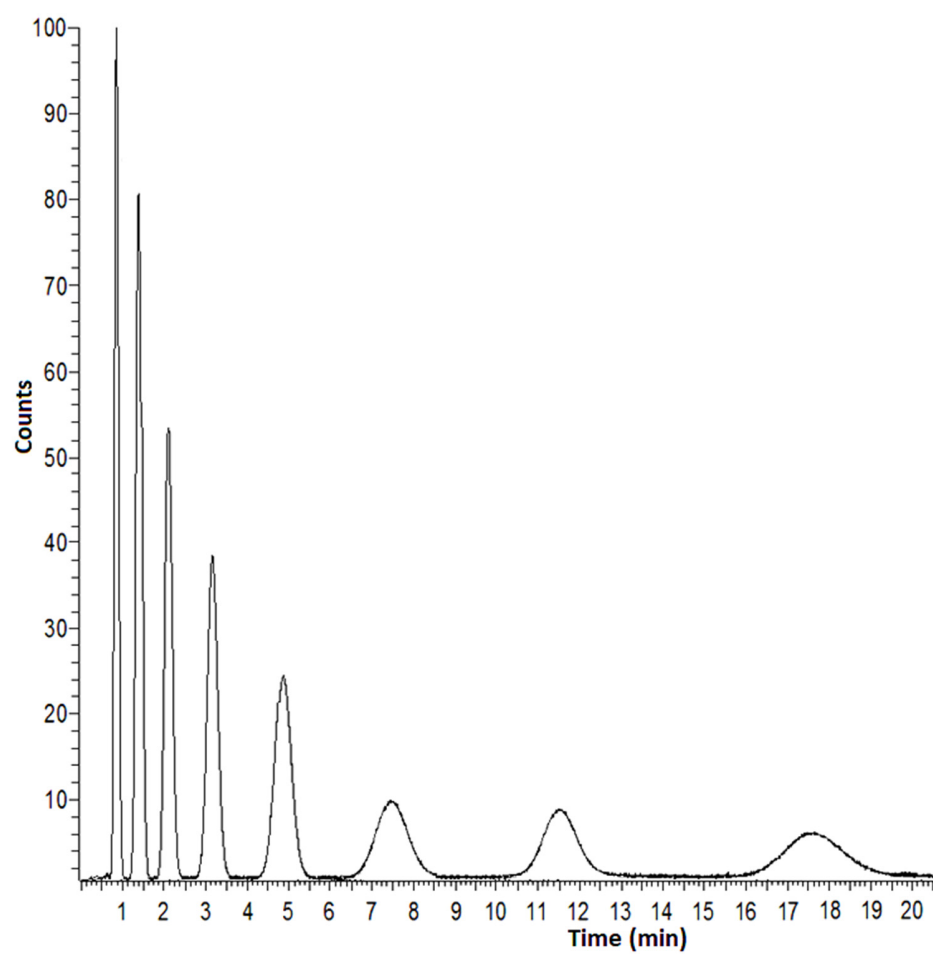


Figure S4

