Sorption Behavior of Bisphenol A and Triclosan by Graphene:

Comparison with Activated Carbon

Fei Wang^{1, 2, 4}, Xingwen Lu^{1, 3}, Wenchao Peng^{1, 5}, Yu Deng¹, Tong Zhang¹, Yibo Hu¹, and Xiao-yan Li¹*

¹Department of Civil Engineering, The University of Hong Kong, Pokfulam, Hong Kong ²School of Environment, Guangzhou Key Laboratory of Environmental Exposure and Health, and Guangdong Key Laboratory of Environmental Pollution and Health, Jinan University, Guangzhou 510632, China

³School of Environmental Science and Engineering, Guangdong University of Technology,

Guangzhou 510006, China

⁴Guangdong Provincial Key Laboratory of Environmental Pollution Control and Remediation Technology, Guangzhou 510275, China

⁵School of Chemical Engineering and Technology, Tianjin University, Tianjin 300072, China.

Supporting Information

Including 5 figures.

^{*}Corresponding Author. Tel: 852-28592659; Fax: 852-25595337; Email: xlia@hkucc.hku.hk

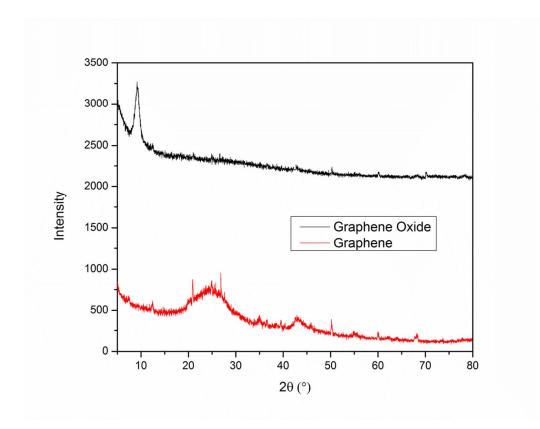


Figure S1. The XRD pattern of as-made graphene oxide (black line) and graphene (red line).

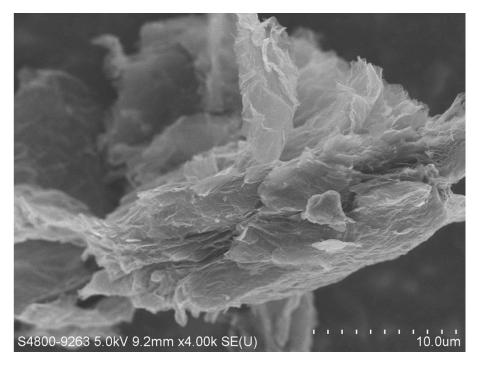


Figure S2. The micrograph of the as-made graphene observed by SEM.

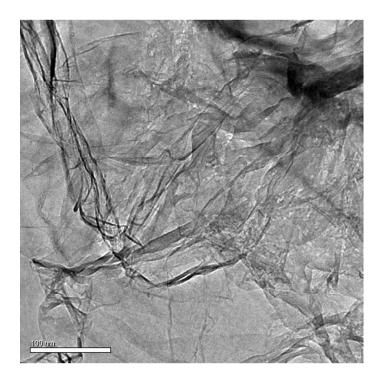


Figure S3. The TEM image of the as-made graphene used in this study.

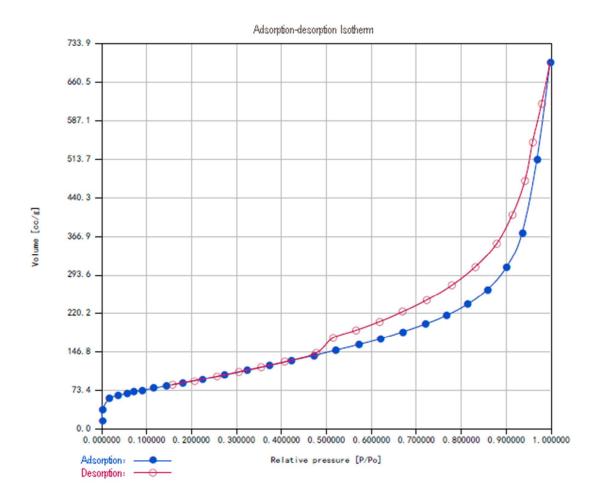


Figure S4. The adsorption-desorption isotherm of the as-made graphene used in this study.

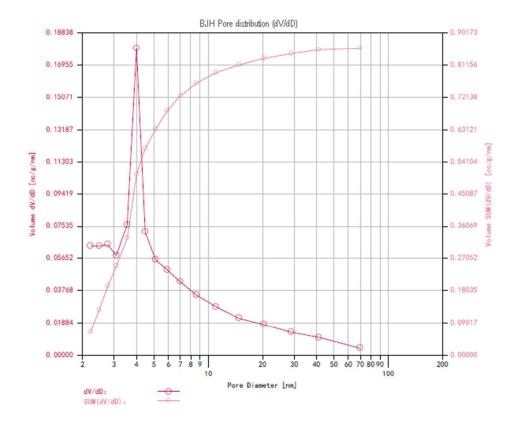


Figure S5. The BJH pore distribution of the as-made graphene used in this study.