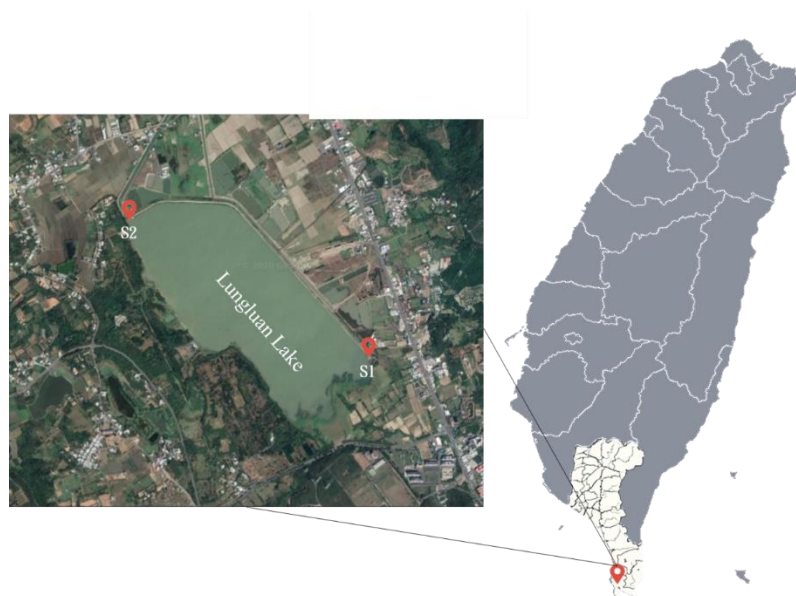
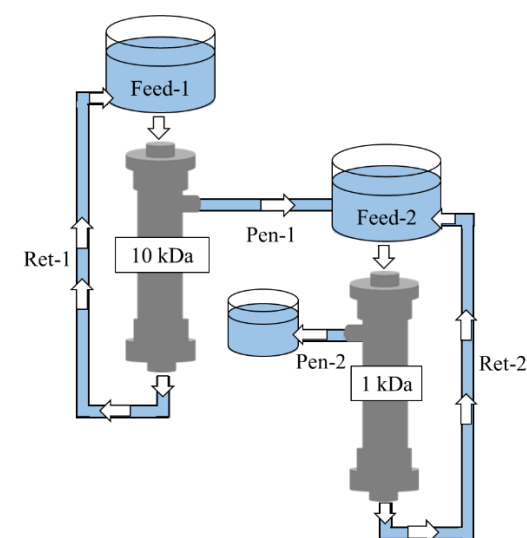




## Supplementary Materials

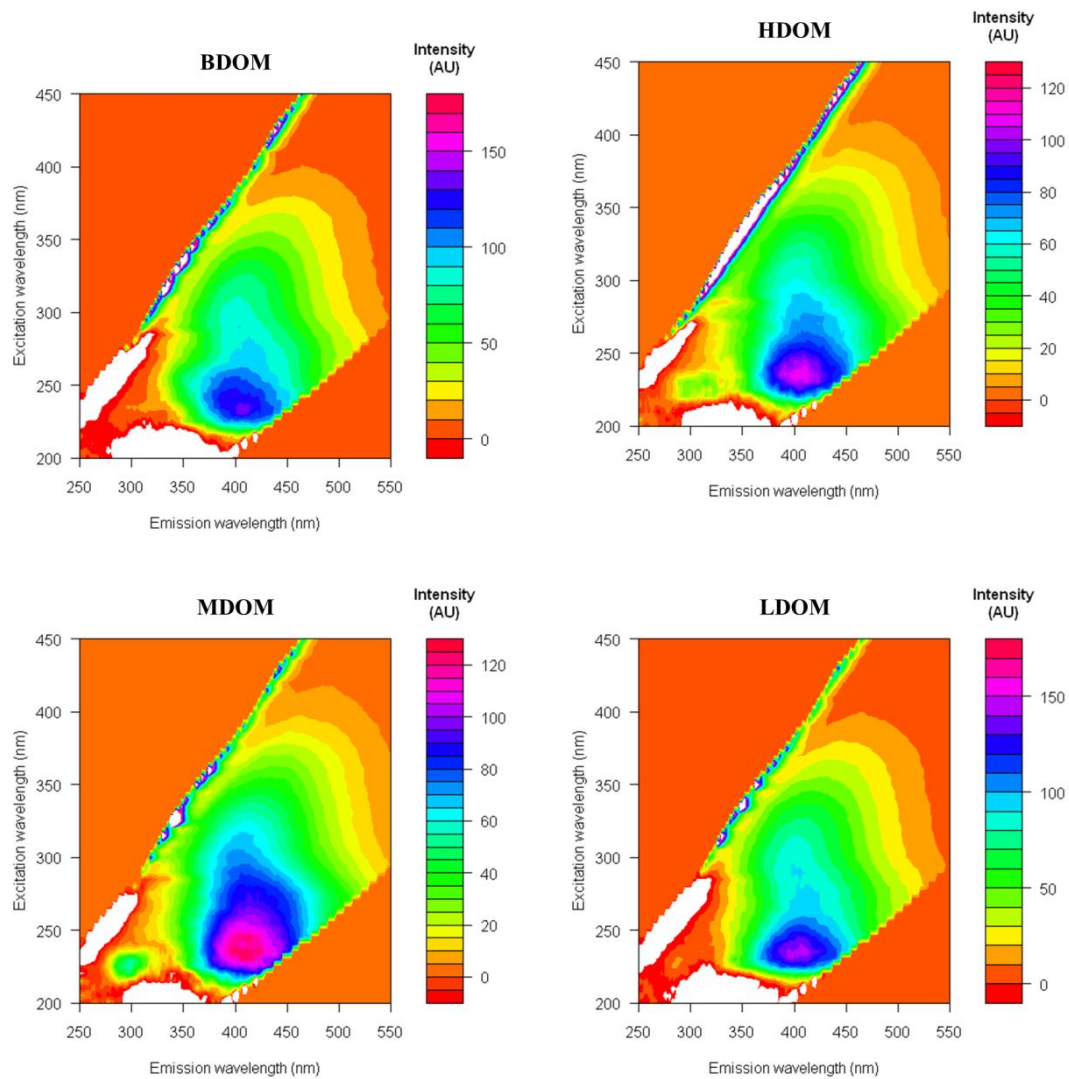


**Figure S1.** Sampling map.

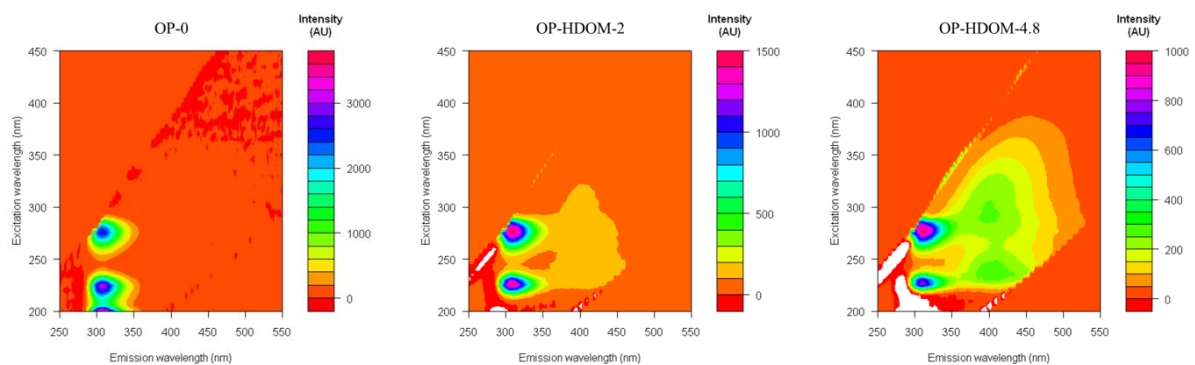


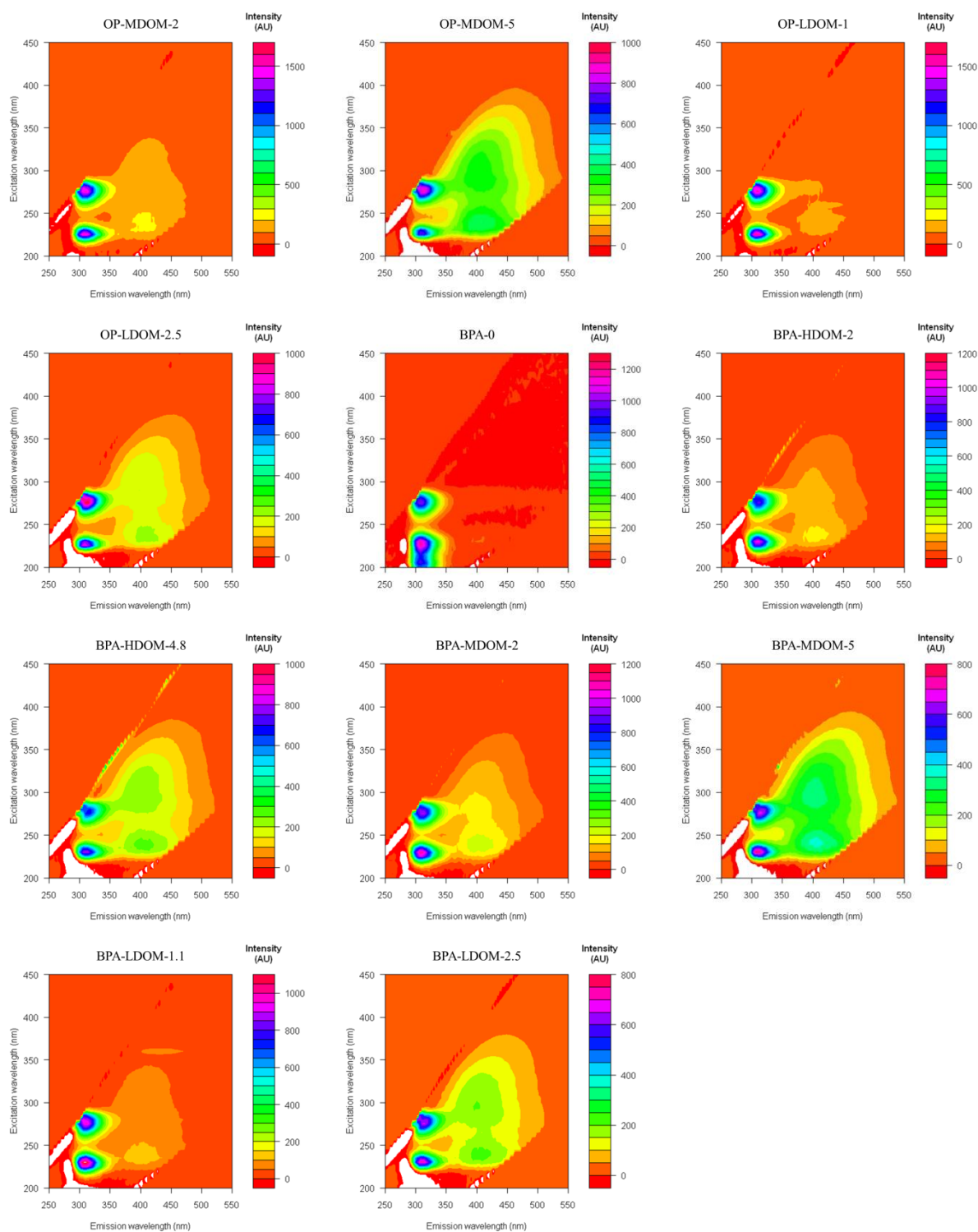
Size	Feed	Retention	Penetration
100 kDa	3000 mL (Feed-1)	300 mL (Ret-1, HDOM)	2700 mL (Pen-1, Feed-2)
1 kDa	2700 mL (Feed-2)	270 mL (Ret-2, MDOM)	2430 mL (Pen-2, LDOM)

**Figure S2.** Separation process and volumes of sized DOM.



**Figure S3.** EEM plots of 4 sized DOM without OP and BPA at DOC 1 mg/L.





**Figure S4.** EEM plots of OP/BPA interaction with size-fractionated DOM. In the top of EEM, OP-0 and BPA-0 were the EEM plots of standard OP/BPA solution (1 mg/L). The size-fractions DOM were represented with HDOM, MDOM, and LDOM. The numbers were the DOC concentrations.