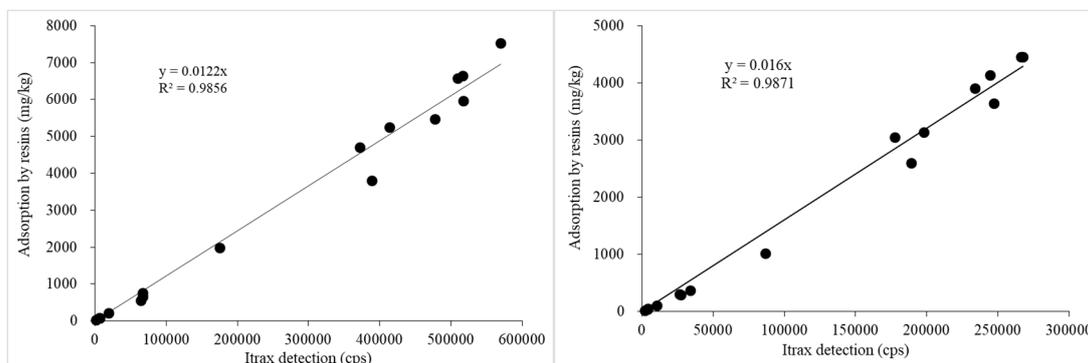
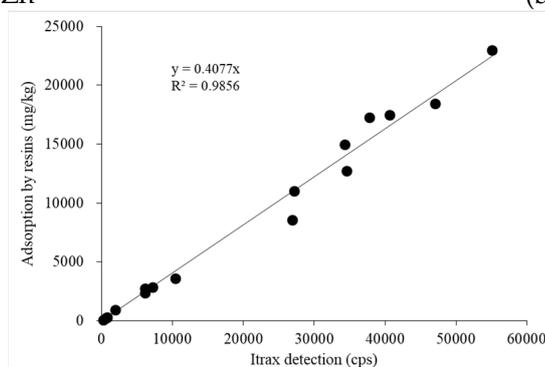


Supplementary Materials



(a) Zn

(b) Cu



(c) Ca

Figure S1. Relationship between resin adsorption and Itrax XRF-CS detection values. Note: cps denotes count per second.

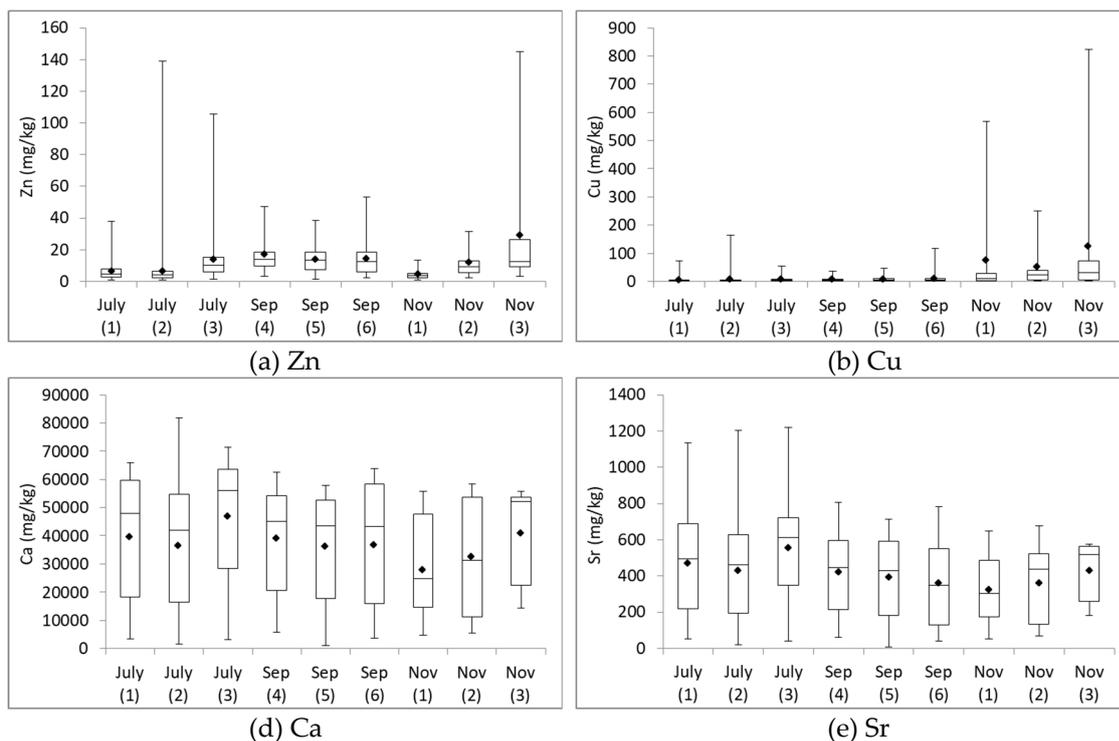


Figure S2. Concentration of metal and trace elements in resins collected during different sampling periods. Note: July (1), July (2), and July (3) denotes three recycling procedures on July 28th-29th, August 4th-5th, and August 11th-12th, respectively; Sep (4), Sep (5), and Sep (6) denotes three recycling procedures on September 30th, October 7th, and October 14th, respectively; Nov (1), Nov (2), and Nov (3) denotes three recycling procedures on November 4th, 11th and 18th, respectively.