Comprehensive two-dimensional ion chromatography (2D-IC) coupled to post-column photochemical fluorescence detection system for determination of neonicotinoids in food samples

Nadeem Muhammad^{a, b}, Fenglian Wang^b, Qamar Subhani^{b, c}, Qiming Zhao^{b, e}, Muhammad Abdul Qadir^d, Hairong Cui^a, Yan Zhu^{b,*}

^aDepartment of Environmental Engineering, Wuchang University of Technology, Wuhan, 430223, China.

^bDepartment of chemistry, Xixi Campus, Zhejiang University, Hangzhou 310028, China.

^cHigher Education Department, Punjab, Lahore, Pakistan.

^dInstitute of chemistry, University of the Punjab, Lahore, Pakistan.

^eCollege of Pharmacy, Zhejiang Chinese Medical University, Hangzhou 310053, China.

(*) Corresponding author:

Tel.: +86 571 88273637 Fax: +86 571 88823446.

E-mail address: zhuyan@zju.edu.cn (Y. Zhu)

Contents

- 2. Study of effect of pH and irradiation time on PIF intensity of both NNIs2



Fig. S1. (a) The PIF excitation and emission spectra's of IMI and CLT in basic mobile phase (1.5 mM Na_2CO_3 +15 mM NaOH + 18 % ACN) and (b) the PIF intensity of IMI and CLT in different bases.



Fig. S2 (a) Effect of pH on PIF signal of IMI and CLT and (b) Effect of irradiation time on PIF intensity of IMI and CLT