

Figures' Caption

Fig. 1. Stopped-FI system for the determination of bromide. S: sample injection valve, P: double plunger pump, W: waste, Carrier: $0.011 \text{ mol l}^{-1} \text{ NaCl}$, Mixed reagent: $8 \times 10^{-5} \text{ mol l}^{-1}$ methylene blue (MB), $2.5 \text{ mol l}^{-1} \text{ H}_2\text{SO}_4$ and $0.6 \text{ mol l}^{-1} \text{ NaCl}$, Oxidizing agent: $2 \text{ mol l}^{-1} \text{ H}_2\text{O}_2$. The system was carried out in temperature-control room (25°C).

Fig. 2. Stopped-FI peaks for standard bromide solutions. (1) to (5) standard bromide solutions of 0, 0.8, 1.6, 2.4, $3.2 \text{ } \mu\text{g ml}^{-1}$, respectively. Traveling time (T_1) 100 s, stopping time (T_2) 120 s and washing time (T_3) 100 s.

Fig. 3. Dependence of the stopping time on analytical signal of standard bromide (solid line) and linear correlation coefficient (dash line). Peak heights correspond to the absorbance differences between the baseline and the minimums of the hollows. (1) to (5) standard bromide solutions of 0, 0.8, 1.6, 2.4 and $3.2 \text{ } \mu\text{g ml}^{-1}$, respectively. Conditions: MB $8 \times 10^{-5} \text{ mol l}^{-1}$, H_2SO_4 2.5 mol l^{-1} , NaCl 0.6 mol l^{-1} , H_2O_2 2 mol l^{-1} , flow rate of 1.5 ml min^{-1} , mixing coil length of 5 m and injection volume of $200 \text{ } \mu\text{l}$.

Fig. 4. Effect of concentrations of chemicals on analytical signal. (1) to (5) standard bromide solutions of 0, 0.8, 1.6, 2.4 and $3.2 \text{ } \mu\text{g ml}^{-1}$, respectively. (a) effect of NaCl concentration (in mixed reagent) and (b) effect of H_2O_2 concentration.

Fig. 5. Effect of FI variables on analytical signal of blank (\blacklozenge) and $2.4 \text{ } \mu\text{g ml}^{-1}$ of standard bromide (\blacksquare), and analysis time (\blacktriangle). (a) effect of flow rate, (b) effect of mixing coil length and (c) effect of injection volume.

Fig. 6. Comparison of the bromide contents determined by the proposed method ($n=3$) and titration method ($n=3$).

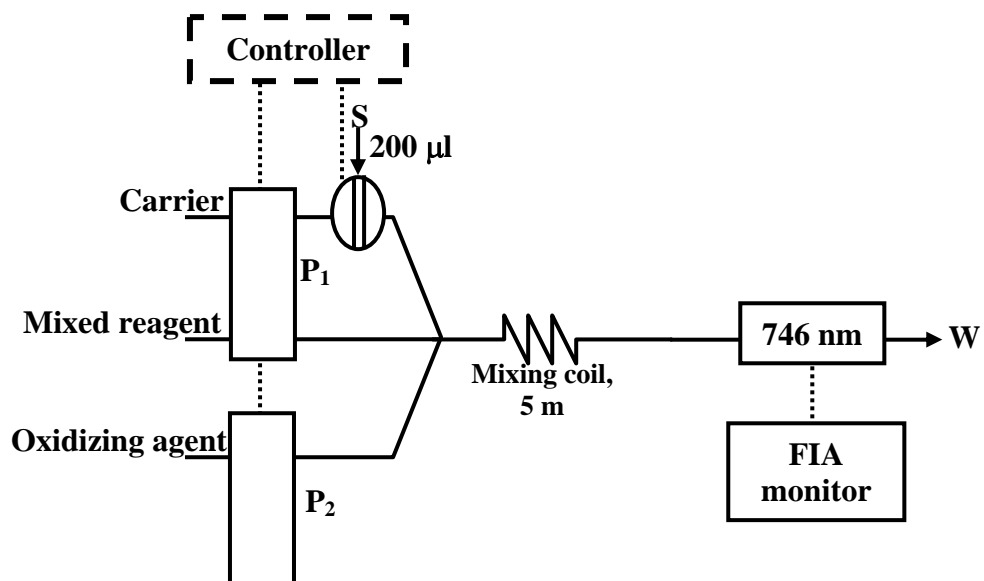
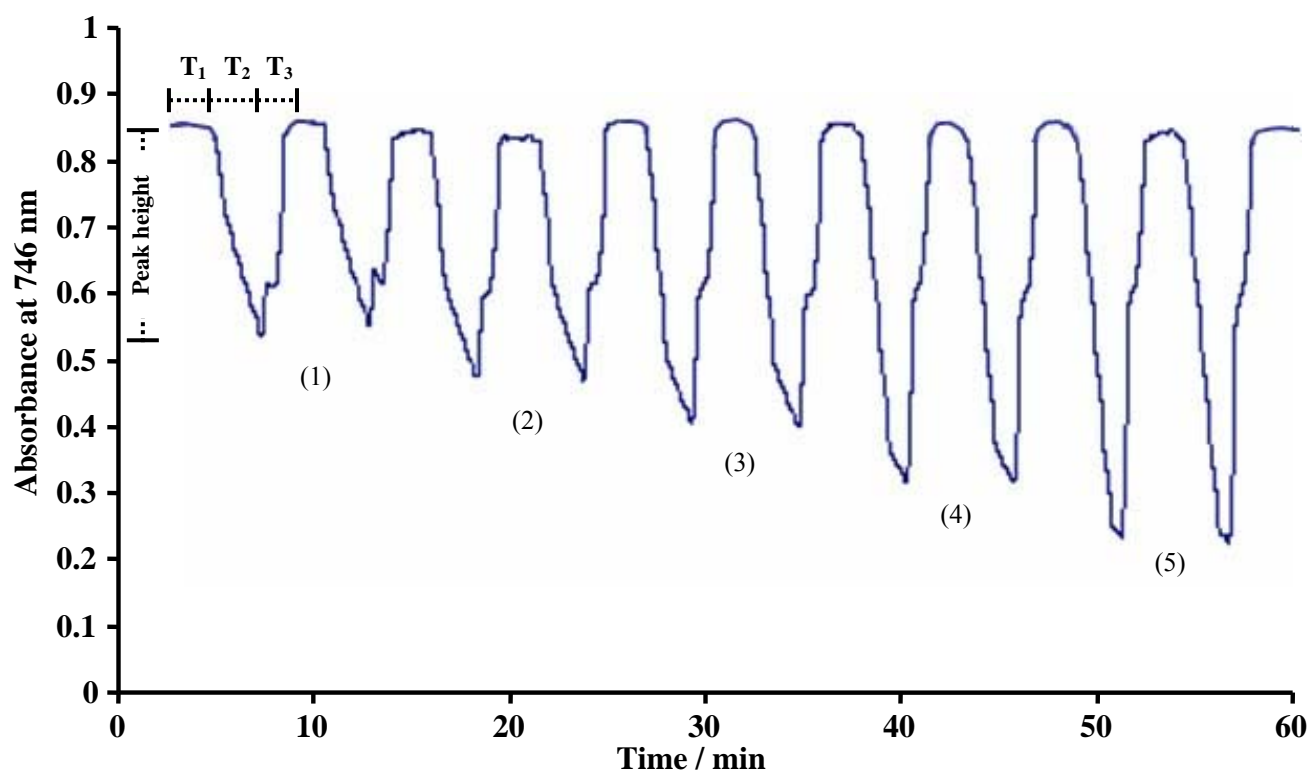


Fig. 1.

**Fig. 2.**

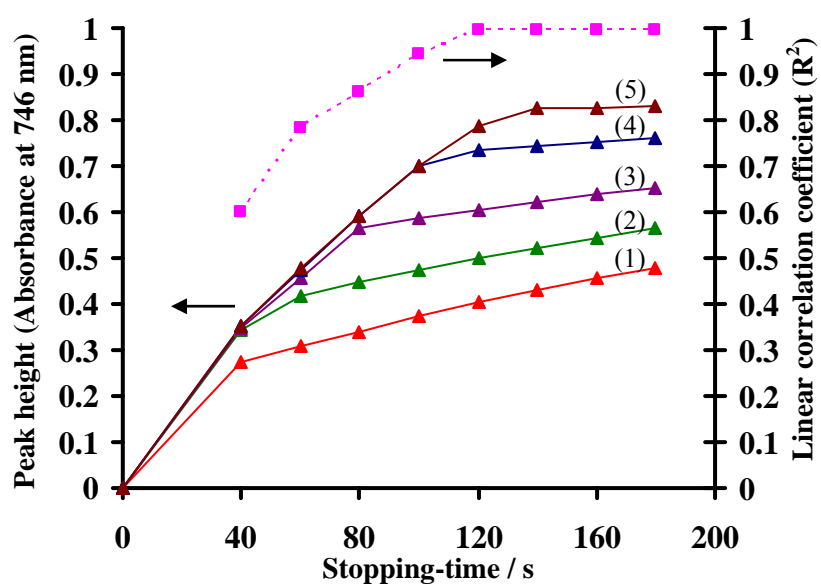
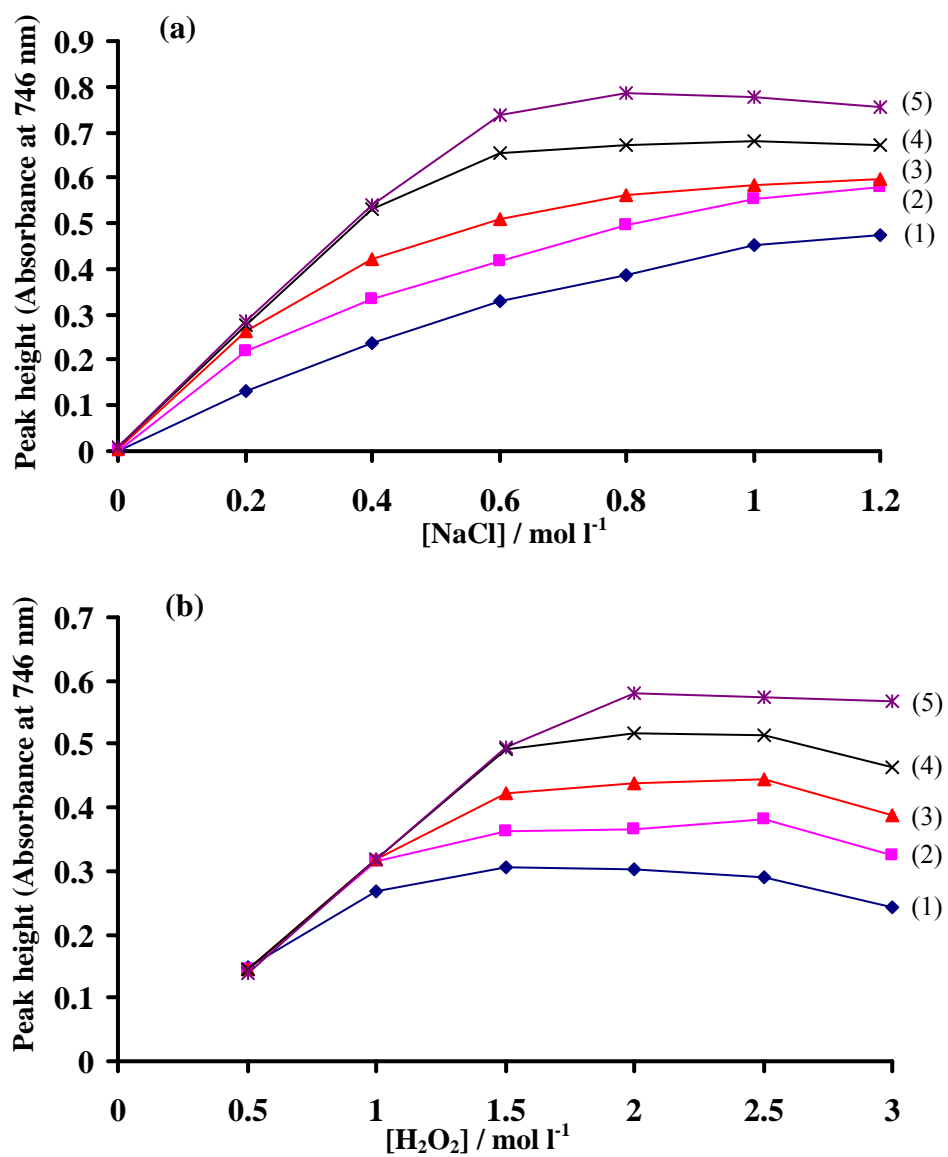
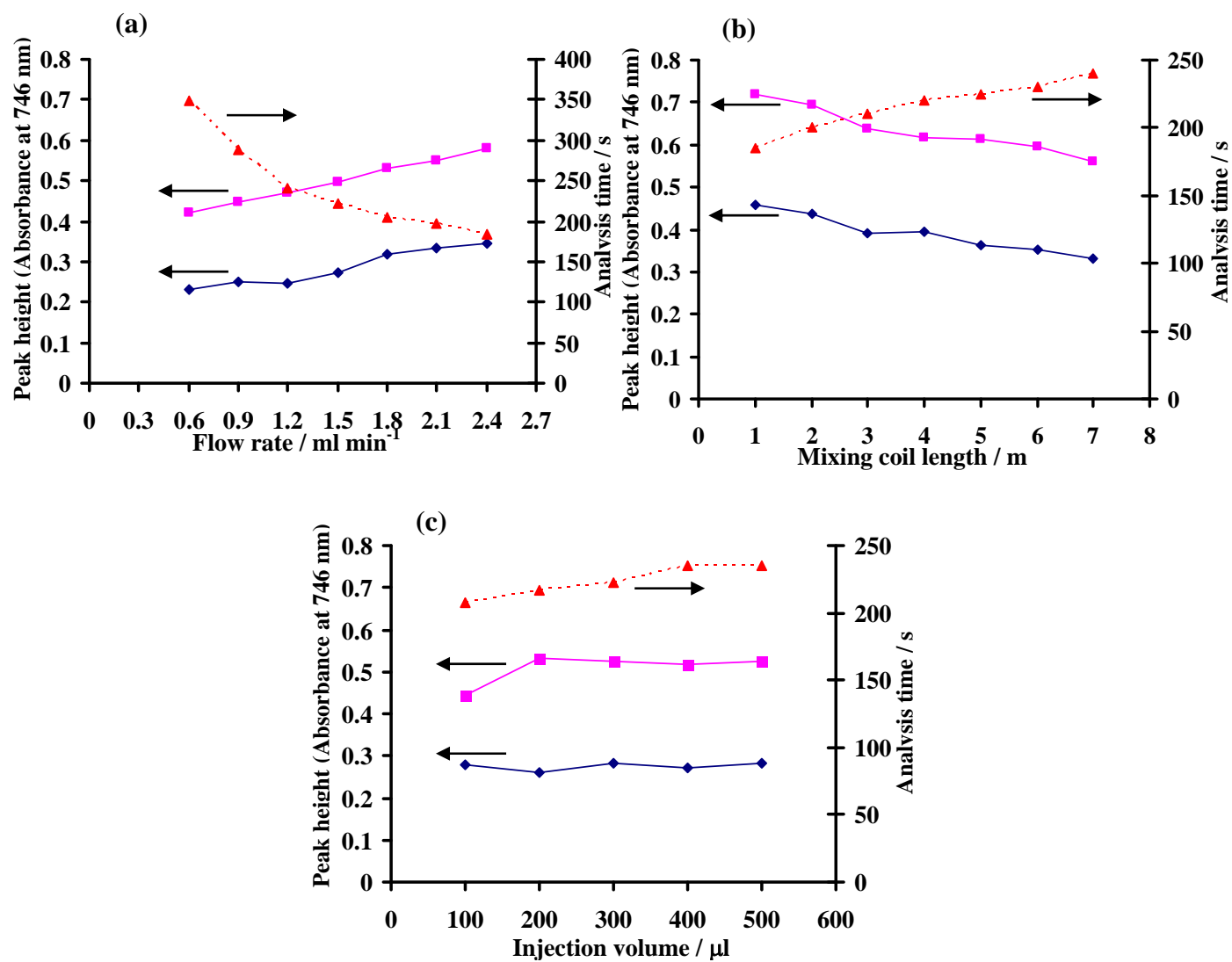


Fig. 3.

**Fig. 4.**

**Fig. 5.**

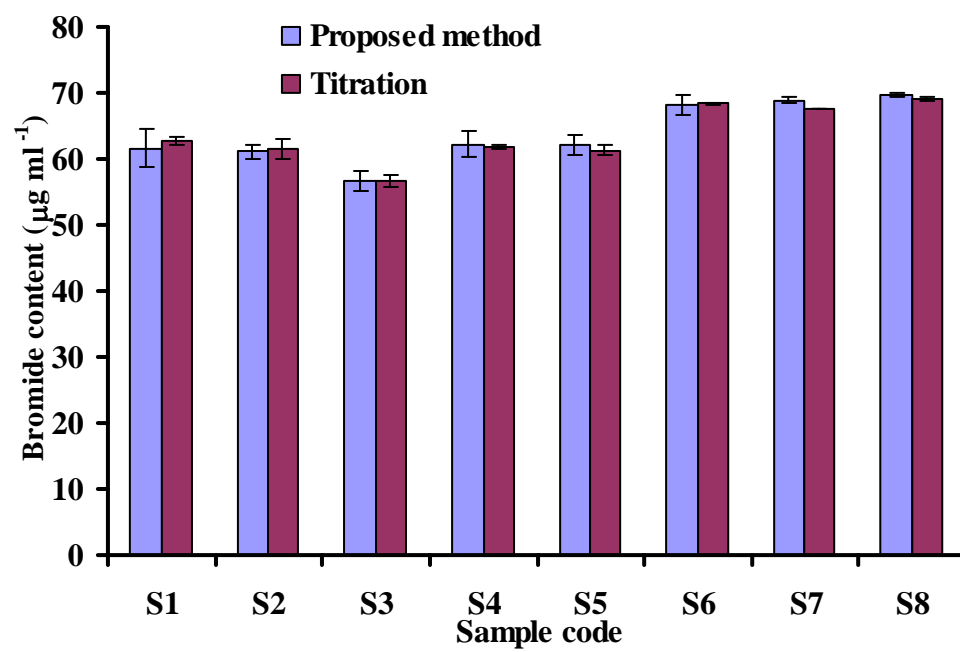


Fig. 6.