

Supplementary Information

Application of a Novel Micro-Cloud Point Extraction for Preconcentration and Spectrophotometric Determination of Azo Dyes

Elham Ghasemi* and Massoud Kaykhaii

Department of Chemistry, Faculty of Sciences, University of Sistan and Baluchestan,
98135-674 Zahedan, Iran

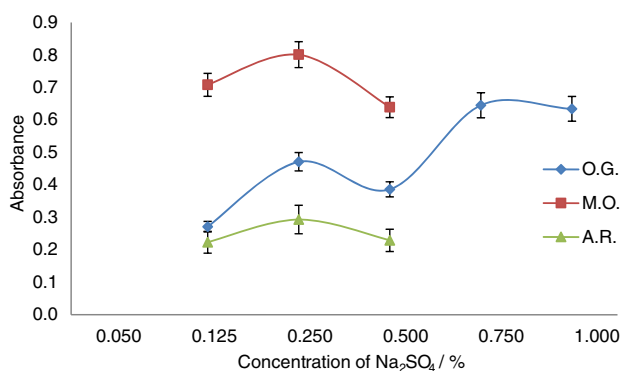


Figure S1. Effect of concentration of salt on MCPE of 4.0 mg L⁻¹ orange G (O.G.), 0.5 mg L⁻¹ methyl orange (M.O.) and 2.0 mg L⁻¹ acid red 18 (A.R.); extraction condition: triton X-114, 0.1%, v/v; 0.5 mL buffer; time of centrifuge, 5 min at 4000 rpm.

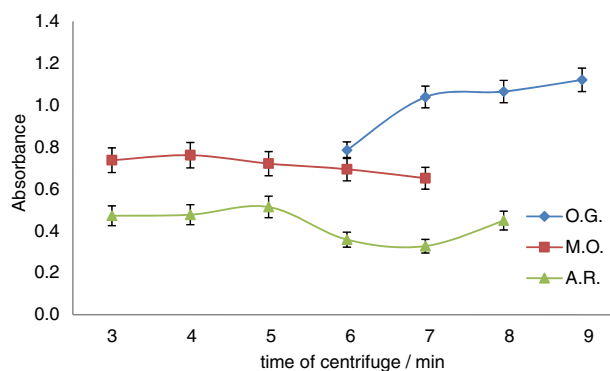


Figure S3. Effect of time of centrifuge on MCPE of 4.0 mg L⁻¹ orange G (O.G.), 0.5 mg L⁻¹ methyl orange (M.O.) and 2.0 mg L⁻¹ acid red 18 (A.R.); extraction condition: triton X-114, 0.1%, v/v; Na₂SO₄, 0.25%, m/v; 0.5 mL buffer.

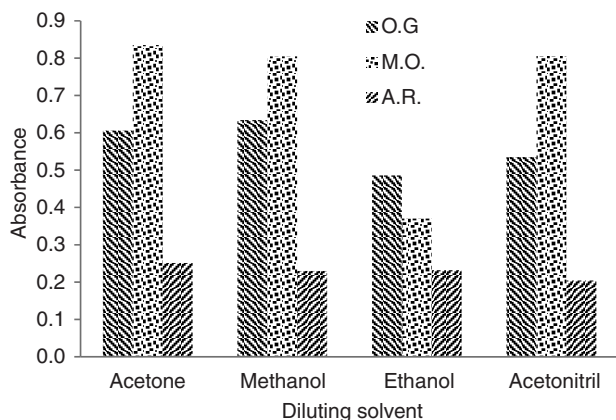


Figure S2. Effect of diluting solvent on MCPE of 4.0 mg L⁻¹ orange G (O.G.), 0.5 mg L⁻¹ methyl orange (M.O.) and 2.0 mg L⁻¹ acid red 18 (A.R.); extraction condition: triton X-114, 0.1%, v/v; Na₂SO₄, 0.25%, m/v; 0.5 mL buffer; time of centrifuge, 5 min at 4000 rpm.

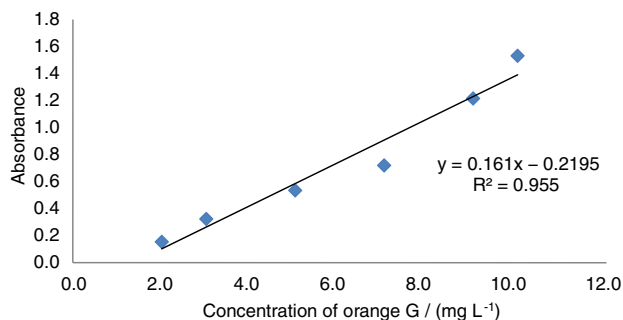


Figure S4. Calibration curve for orange G under optimized condition at the linear range.

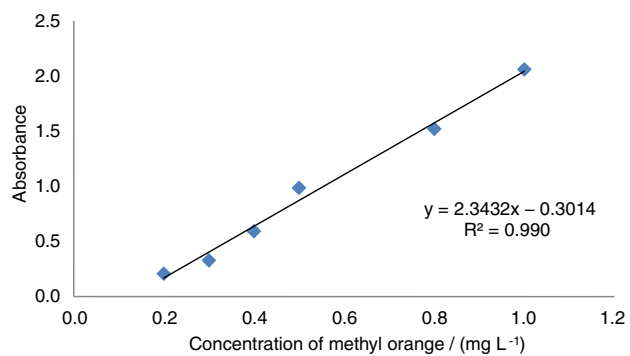


Figure S5. Calibration curve for methyl orange under optimized condition at the linear range.

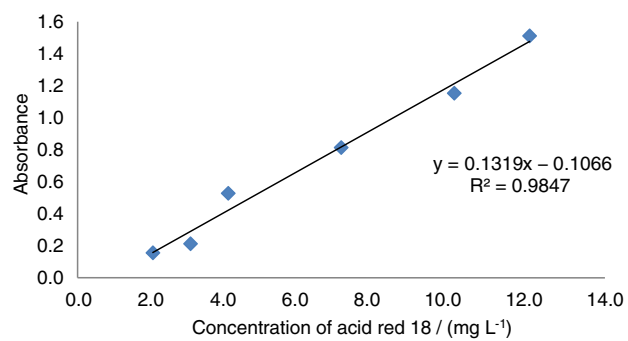


Figure S6. Calibration curve for orange G under optimized condition at the linear range.