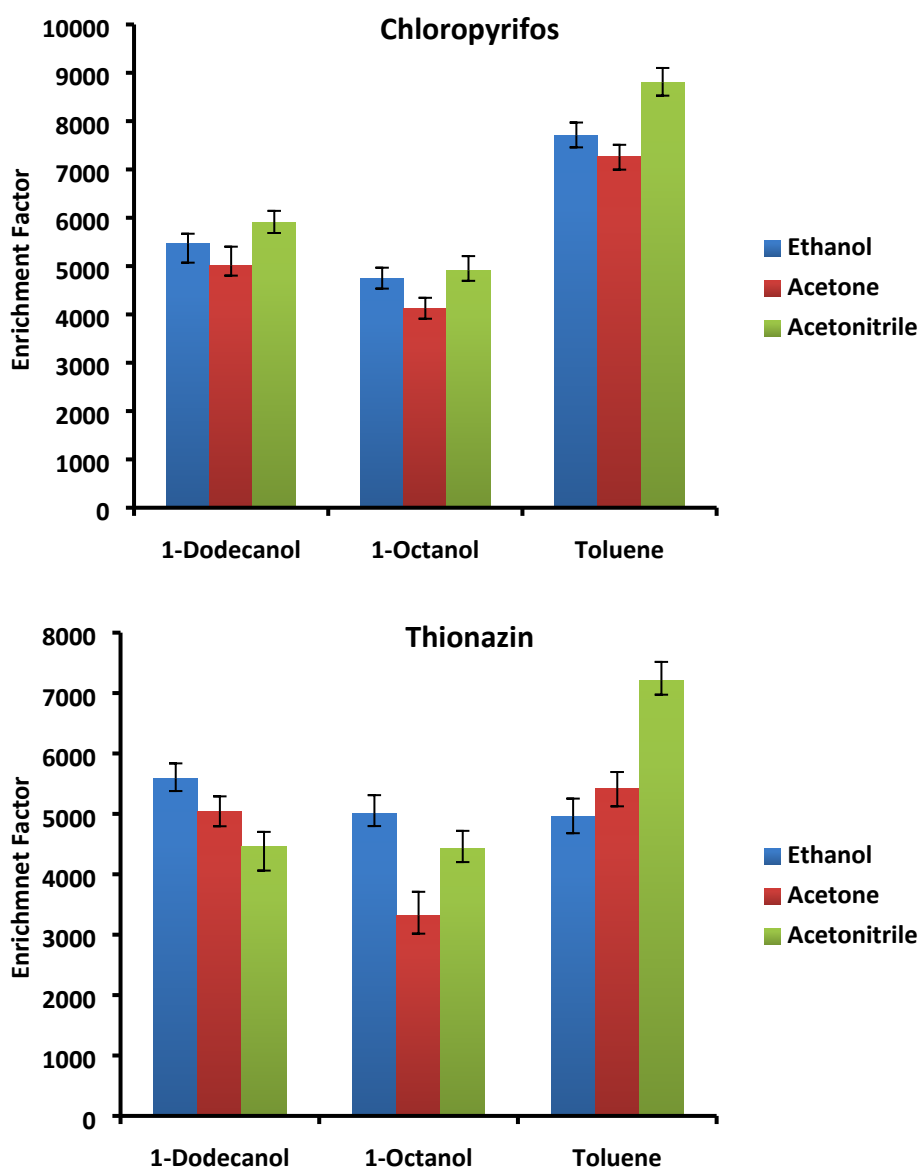


Fig. S1. Selection of extracting and disperser/eluting solvents in USAL-SPE-LDS-DLLME. USL conditions: soil sample weight, 2 gr; spiked concentration, 50 ng g⁻¹; leaching solvent volume, 2 mL (Methanol); ultrasound radiation time, 2 min; centrifugation time, 5 min; SPE Conditions: water sample volume, 50 mL; flow rate, 15 mL min⁻¹; disperser/eluting solvent volume, 1 mL; LDS-DLLME conditions: extraction solvent volume, 10 μL; aqueous solution volume, 5 mL; extraction time, 1 min; centrifugation time, 2 min.



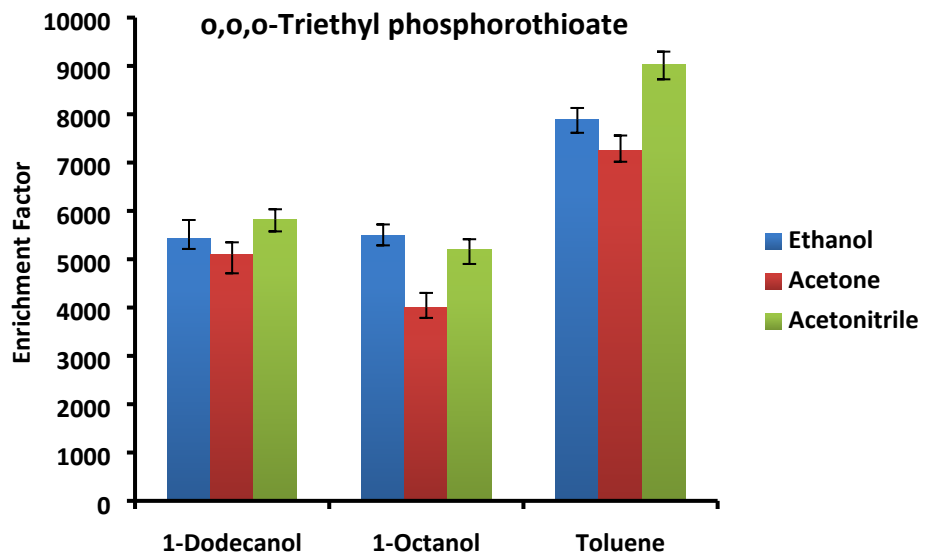
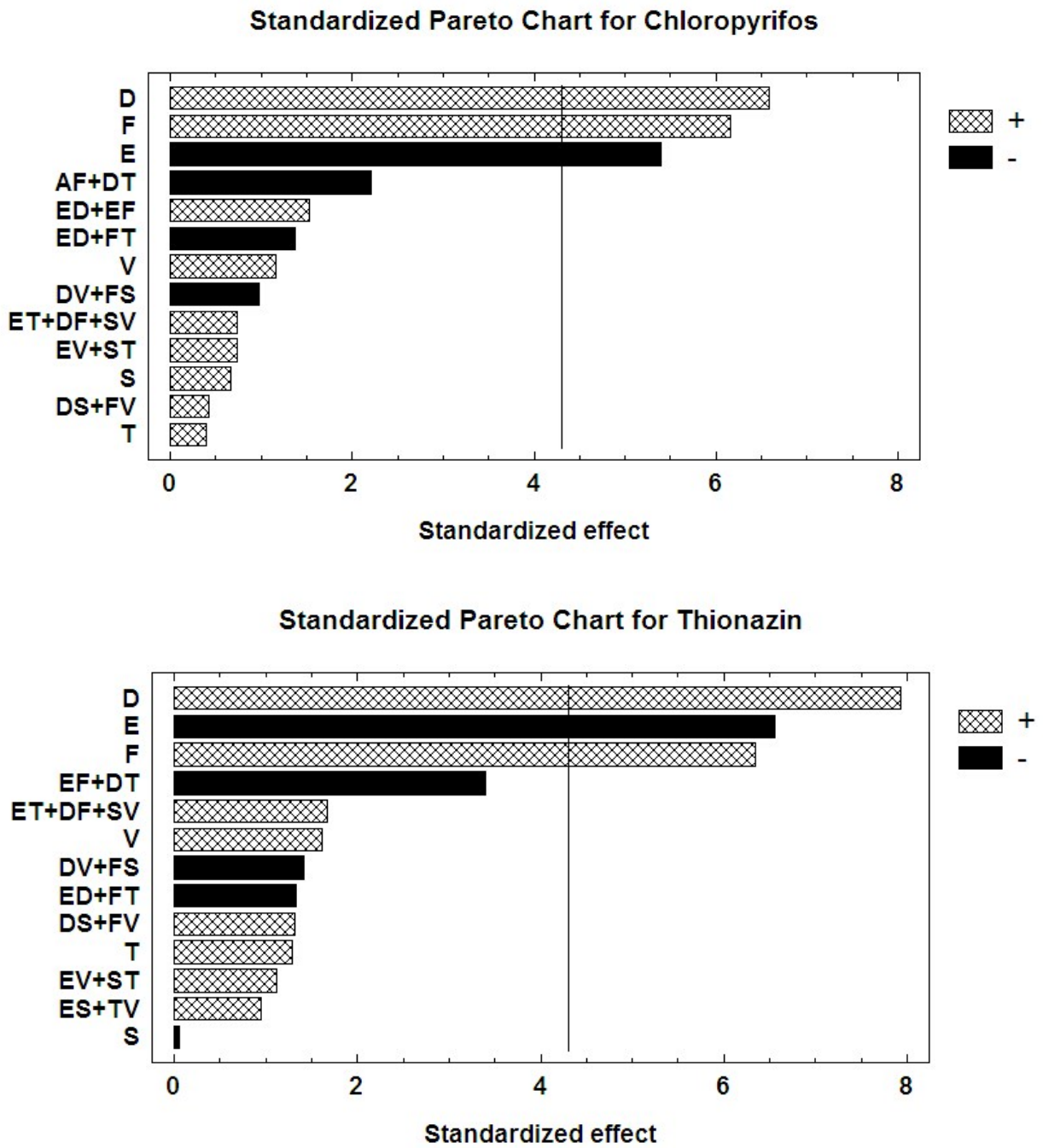


Fig. S2. Standardized ($P = 0.05$) Pareto chart, representing the estimated effects of parameters and parameter interactions on enrichment factor



Standardized Pareto Chart for o,o,o-Triethyl phosphorothioate

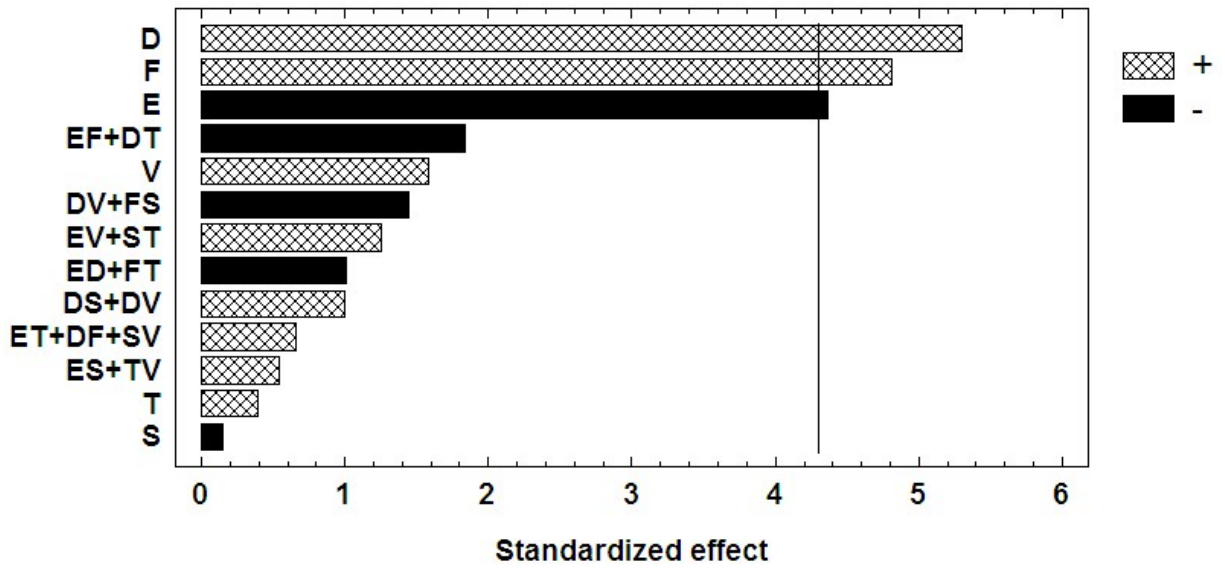
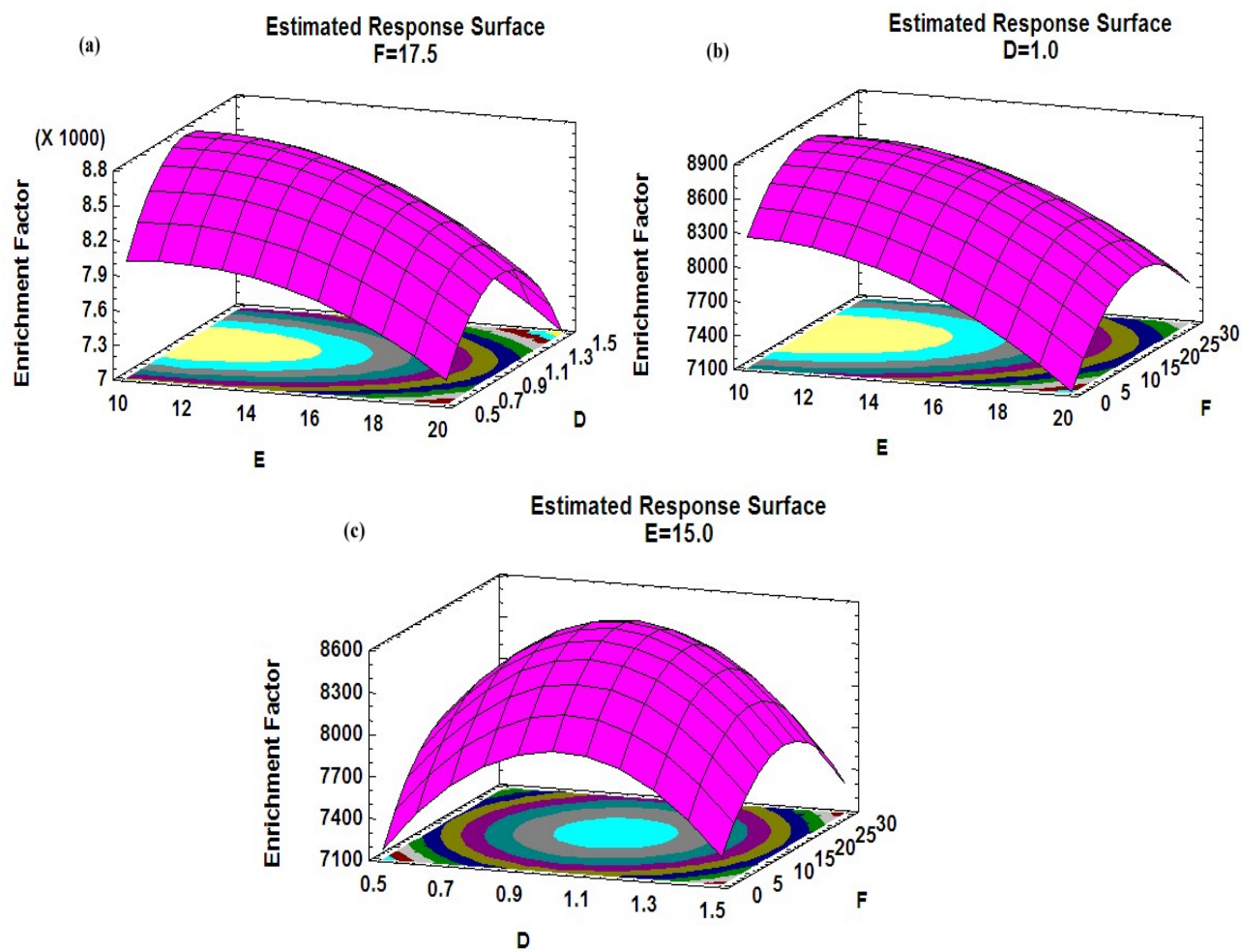
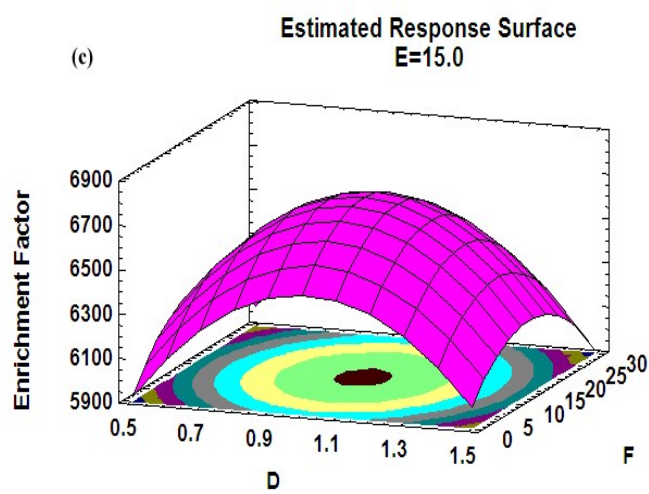
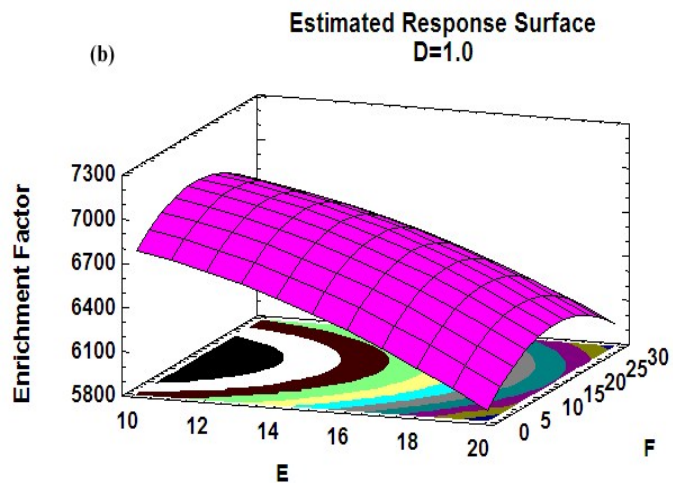
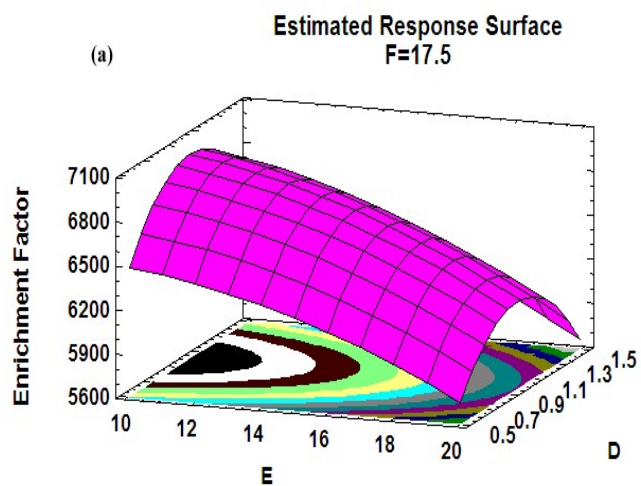


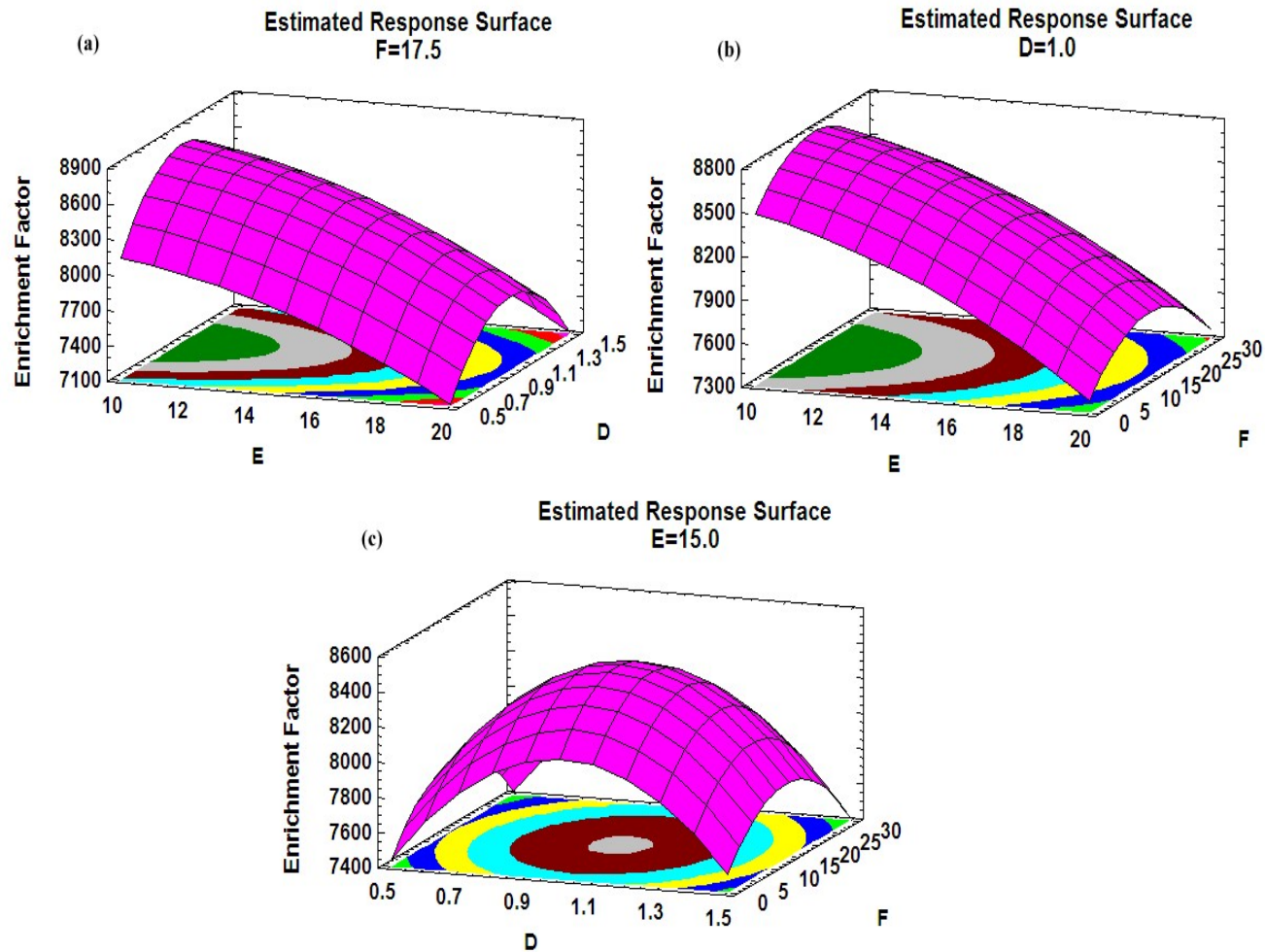
Fig. S3. Estimated response surfaces with related contours for (A) Chloropyrifos, (B) Thionazin and (C) o,o,o-Triethyl phosphorothioate by plotting enrichment factor versus a: extraction solvent volume (E, μL) and dispersive solvent volume (D, mL); b: extraction solvent volume (E) and Flow rate of sample solution through solid phase (F, mL min^{-1}); c: dispersive solvent volume (D) and Flow rate of sample solution through solid phase (F);



(A) Chloropyrifos



(B) Thionazin



(C) o,o,o-Triethyl phosphorothioate