

IC Application Note No. U-39

Title: Polybrominated flame retardants in polymers by UV detection, as per IEC 62321 method for RoHS testing

Summary: The determination of PBBE (tetrabromobisphenol A TBBPA, octabromobiphenyloxyde OCTA and decabromobiphenyloxyde DECA) in polymer sample was carried out with Nucleosil EC – 250 mm column, using methanol and phosphate buffer as eluent under UV detection, as per IEC 62321 method for RoHS testing.

Sample: Finely ground polymer sample (less than 1 mm)

Sample Preparation: Soxhlet extraction with n-propanol

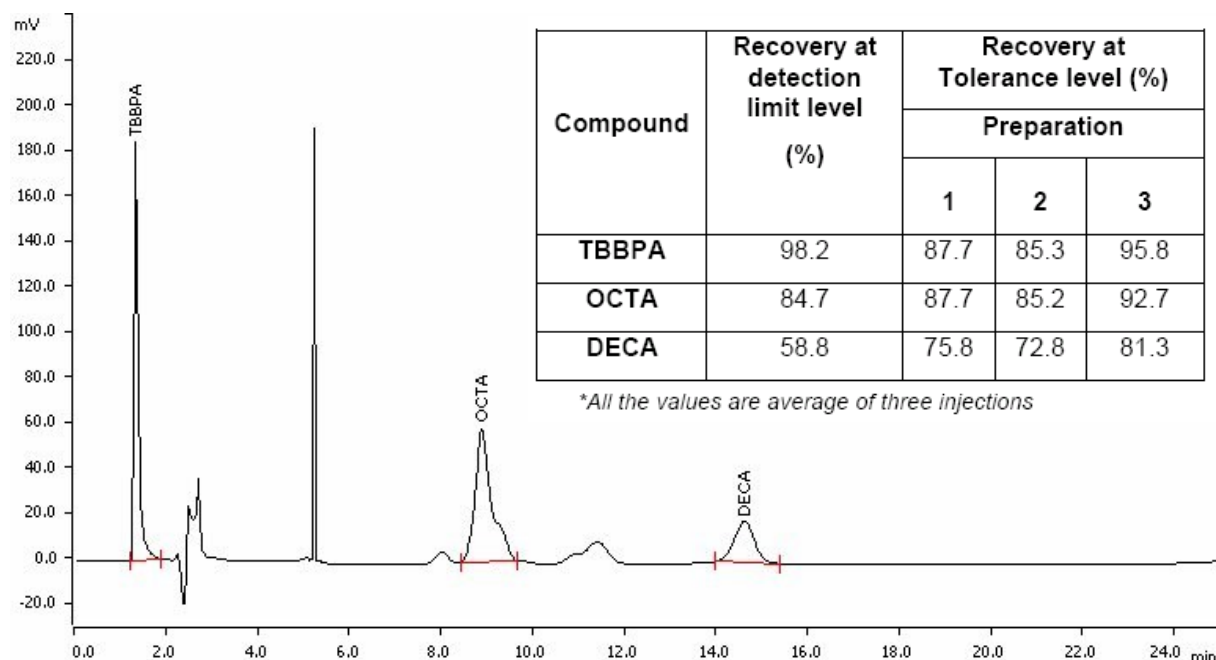
Column: Nucleosil EC C18

Wavelength: 210 / 254 nm

Eluent: 97% methanol, 3% phosphate buffer (pH = 7)

Flow: 1.0 mL/min

Injection Volume: 20 µL



Chromatogram:	TBBPA mg/L	OCTA mg/L	DECA mg/L
Spiked at tolerance level	20	20	20