

X-RAY PHOTOELECTRON SPECTROSCOPY (XPS)

MANUFACTURER : VG Scientific

MODEL : Escalab 220i XL

Samples

- Sample size : maximum 25,4 mm x 25,4 mm (1" x 1")
- Thickness : maximum 5 mm

Analysis

- Chemical analysis of surfaces (qualitative and quantitative)
- Mapping possible

Characteristics

- Double polychromatic source: Aluminium $K\alpha_{1,2}$ ($h\nu = 1486.6$ eV) + Magnesium $K\alpha_{1,2}$ ($h\nu = 1253.6$ eV)
- Monochromatic source Aluminium $K\alpha_{1,2}$ ($h\nu = 1486.6$ eV)
- XL Magnetic Lens
- Charge compensation for non-conducting samples
- Main chamber Argon beam scrubbing (0.1 to 10 keV), etch rate of 0.1 to 3 nm/min
- Vacuum system for analysis chamber: 10 - 10 mbar
- UV source for Ultraviolet Photoelectron Spectroscopy (UPS)