

<p>Electron Probe MicroAnalyser</p>	<p>Category: C. Particle Characterisation in and ex-situ</p> <p>Institute: VITO</p> <p>Location: Boeretang 200, 2400 Mol, Belgium</p> <p>Contact Details of Technology Expert: Rosita Persoons Phone: +32 (0)14 335730 Fax: +32 (0)14 321186 E-mail: rosita.persoons@vito.be</p>
<p>Short technology description</p> <p>The electron probe microanalyser JEOL JXA-8621MX is comparable to a scanning electron microscope in terms of the electron microscopy, but it has more possibilities for identifying the characteristic X-rays and thus for determining the elementary composition of a material. Besides an energy-dispersive analyser (EDXA), there are also wavelength-dispersive analysers (WDXA) available. These give better spectral resolution and moreover they can be equipped with special crystals for detecting soft X-rays. EPMA is highly suitable for determining the elementary composition of materials containing so-called ultra-light elements (B,C,N,O).</p>	
<p>Main Features (Equipment Capabilities):</p> <ul style="list-style-type: none"> • Detectors for secondary electrons (SE) and back-scattered electrons (BSE) • Energy-dispersive detector with beryllium window • Three wavelength-dispersive detectors with six crystals, two of which specifically for the ultra-light elements (B, C, N, O); • Automated sample platform • Quantitative element mapping and line scans via beam scan or platform scan • $\phi(\rho z)$ correction software for light elements and thin coatings on a substrate 	
<p>Typical Samples & Images:</p>	
<p><i>Any further Information:</i></p>	