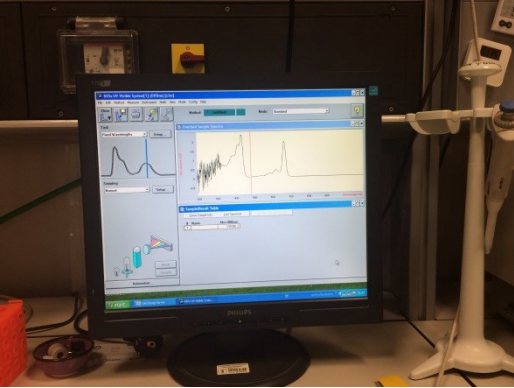


Name	UV-Visible spectrophotometer Agilent 8453
Description	 <p>UV-Visible Spectrophotometer Agilent 8453 acquire the full spectrum (190-1100nm) less of 1 second. Its radiation source is a combination of a deuterium- discharge lamp for the ultraviolet (UV) wavelength range and a tungsten lamp for the visible and short wave near-infrared (SWNIR) wavelength range.</p> <p>In the spectrophotometer, light is dispersed onto the diode array by a holographic grating. This allows simultaneous access to all wavelength information. The result is a high rate at which spectra can be acquired.</p> <p><u>Wavelength range:</u> 190–1100 nm</p> <p><u>Slit width:</u> 1 nm</p> <p><u>Wavelength accuracy:</u> $< \pm 0.5$ nm (0.5-second scan); $< \pm 0.2$ nm (at 486.0 and 656.1 nm)</p> <p><u>Wavelength reproducibility:</u> $< \pm 0.02$ nm (ten consecutive scans)</p> <p><u>Photometric stability:</u> < 0.001 A/h (at 0 A, 340 nm, after 1-hour warm up, measured over 1 hour, every 5 seconds, constant ambient temp.)</p> <p><u>Baseline flatness:</u> < 0.001 A (0.5-second blank, 0.5-second scan, rms)</p> <p><u>Typical scan time:</u> 1.5 second (full range)</p> <p><u>Shortest scan time:</u> 0.1 second (full range)</p> <p><u>Time until next scan:</u> 0.1 second (full range, 0.1-second scan, up to 150 consecutive scans)</p>
Services	<p>The spectrophotometer is used for the measurement of the light absorption of UV-visible mixture or standard to obtain the exact concentration of our compound of interest.</p> <p>It is also used for the measurement of Margalef's index, a ratio between pigments, a good indicator of phytoplankton condition.</p>