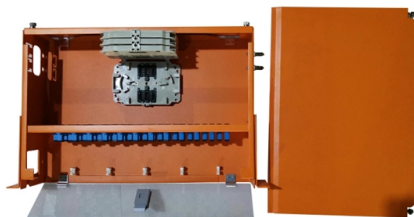


How to test the quality of an OTT spectrometer



Overview

Eight basic tests and a summary evaluation are described here as a rigorous set of standard methods to determine instrument measurement performance, including: wavelength accuracy, wavelength repeatability, absorbance/response accuracy, absorbance/response repeatability . Eight basic tests and a summary evaluation are described here as a rigorous set of standard methods to determine instrument measurement performance, including: wavelength accuracy, wavelength repeatability, absorbance/response accuracy, absorbance/response repeatability . UV-Visible spectroscopy is a highly versatile technique employed in a variety of different industries and workflows. The data acquired through UV-Visible spectrophotometers is often used for sample characterization or to quantify the concentration of a given analyte. This type of testing ensures that streaming platforms work smoothly on various devices like Smartphones, Tablets, Laptops, Desktops, Smart TVs, Gaming Consoles. Regular calibration of all measurement equipment is the key to maintaining the original performance and accuracy. We recommend calibration of measurement instruments as a basic rule every two years. It equips researchers with the ability to measure the exact wavelengths of light emitted and absorbed by a substance – telltale fingerprints that can indicate the chemical composition and atomic structure of an unknown. The central use of spectroscopy in quality control and quality assurance laboratories involves verification of a product's compliance with control specifications – product identity or purity. The workflow is defined, from sample.

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