

Do spectrometers contain radioactive sources

A spectrophotometer is an instrument for measuring the transmittance or absorbance of a sample as a function of the wavelength of electromagnetic radiation. Used mostly for quantitative analysis of ...

A spectrometer is an instrument used in spectroscopy that consists of a radiation source, a monochromator, and a transducer. It emits radiation of various frequencies within a specific region of ...

Radiometers can only detect and measure electromagnetic radiation within a particular wavelength range. Spectrometers measure a broader scale of ...

Spectrometers unravel the spectrum, spectrophotometers identify materials through light interactions, and spectroradiometers quantify absolute radiation from sources.

There are two classes of radiation sources used in spectrometry: continuum sources and line sources. The former are usually lamps or heated solid materials that emit a wide range of wavelengths that ...

Mass spectrometers produce ions from the chemical substance that is being analyzed. The mass spectrometer then uses magnetic and electric fields to measure the mass of these ions. The ...

Radiometers can only detect and measure electromagnetic radiation within a particular wavelength range. Spectrometers measure a broader scale of electromagnetic energy and have ...

Radiation spectra vary for different radiation sources and conditions. Radiation spectra can be used to characterize radiation sources. Spectrometers measure relative spectral radiation over a specified ...

As used in traditional laboratory analysis, a spectrometer includes a radiation source and detection and analysis equipment. Emission spectrometers excite molecules of a sample to higher energy states ...

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No, gamma ray spectrometers specifically measure gamma radiation, which is only emitted by radioactive materials. They are not suitable for analyzing non-radioactive substances.

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