

Service ID S00299



Location At user's premises, Belgium,

Field Spectrometer Measurements

Provider service

Instituut voor Landbouw-, Visserij- en Voedingsonderzoek (ILVO)

Link to content

<https://agrifoodtef.eu/catalogue-of-services/field-spectrometer-measurements>

Type of Sector

Arable farming, Food processing, Greenhouse, Horticulture, Livestock farming, Tree Crops, Viticulture

Accepted type of products

Physical system, Software or AI model

Type of service

Collection of test data, Conformity assessment, Desk assessment, Performance evaluation, Provision of datasets

Description

This service utilises field spectrometers to measure the spectral properties of physical environments, such as barns, greenhouses, or outdoor fields. By capturing detailed spectral data, we help you develop, improve, or validate your agri-food solutions, whether for monitoring plant health, optimising lighting conditions, or enhancing environmental control systems. The measurements provide insights into how different wavelengths of light interact with the environment, enabling fine-tuned adjustments for better crop growth, energy efficiency, or precision farming applications. Additionally, this service can serve as a follow-up to lab-scale measurements where hyperspectral technology is used to conduct pilot tests to determine which wavelengths provide valuable information. In this service, we then perform field tests on these specific wavelengths.

How can the service help you

- > Gain insight in spectral properties of your solution
- > Test or validate the spectral related properties of your solution in a real-world environment
- > Test the integration of multispectral technology in your solutions

How the service will be delivered

The type of spectrometer can be selected as well as the wavelength ranges most relevant to your analysis. As this service is executed in the field, measurements can be performed anywhere.

Service customisation

Our team conducts on-site measurements, capturing spectral data from the physical environment, such as light conditions or material reflectance, under various environmental factors. This service delivers high-quality, raw data adjusted for your needs.