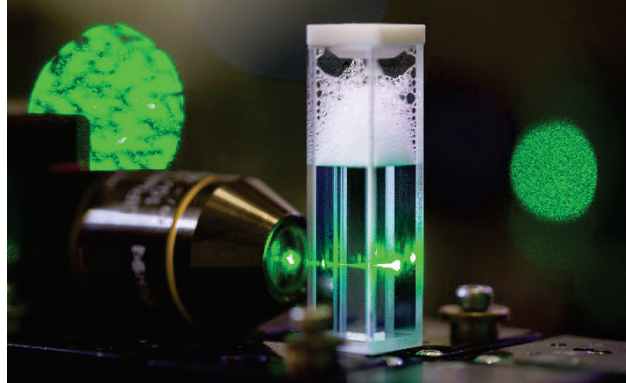


# Evaluation of Equipment and Methods for Raman Spectroscopy

## ABOUT DFM

DFM is Denmark's National Metrology Institute (NMI).

DFM is a signatory to the CIPM-MRA arrangement that ensures mutual recognition of measurements worldwide



## Let DFM assist you to acquire new Raman equipment

Raman spectroscopy offers non-destructive, real-time qualitative and semi-quantitative measurements of solids, liquids and gas samples with almost no sample preparation. Hand-held and portable Raman spectrometers coupled with fiber optics enable remote sampling and field applications. Stimulated Raman spectroscopy (SRS) provides fast online analysis for production monitoring.

DFM has a dedicated photonics team with a decade of experience in all aspects of Raman spectroscopy to offer reliable Raman measurements by calibrating the Raman peak positions traceable to ASTM (E1840) standard and measuring laser wavelength and laser power accurately.

## Services

- Assessing the existing facilities and applications at the customer's site.
- Assist with customizing existing Raman facilities for new applications.
- Installation and maintenance of equipment at production site.
- Design and implementation of stimulated Raman spectroscopy on site.
- Expertise in choosing accessories for particular applications (wavelength, spectrometer, probe, resolution, etc.).
- On-site and off-site training on Raman spectroscopy, equipment use, spectral acquisition and data interpretation and analysis.
- Offering effective learning environment at DFM.

## Applications

- Life Sciences (Medical Diagnostics, Microbial Identification)
- Pharmaceuticals, Cosmetics and Polymers
- Energy Technologies (Biofuel Analysis, Photovoltaic Analysis)
- Food and Agriculture, Environmental Monitoring
- Material science (Carbon Materials, Semiconductors)

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