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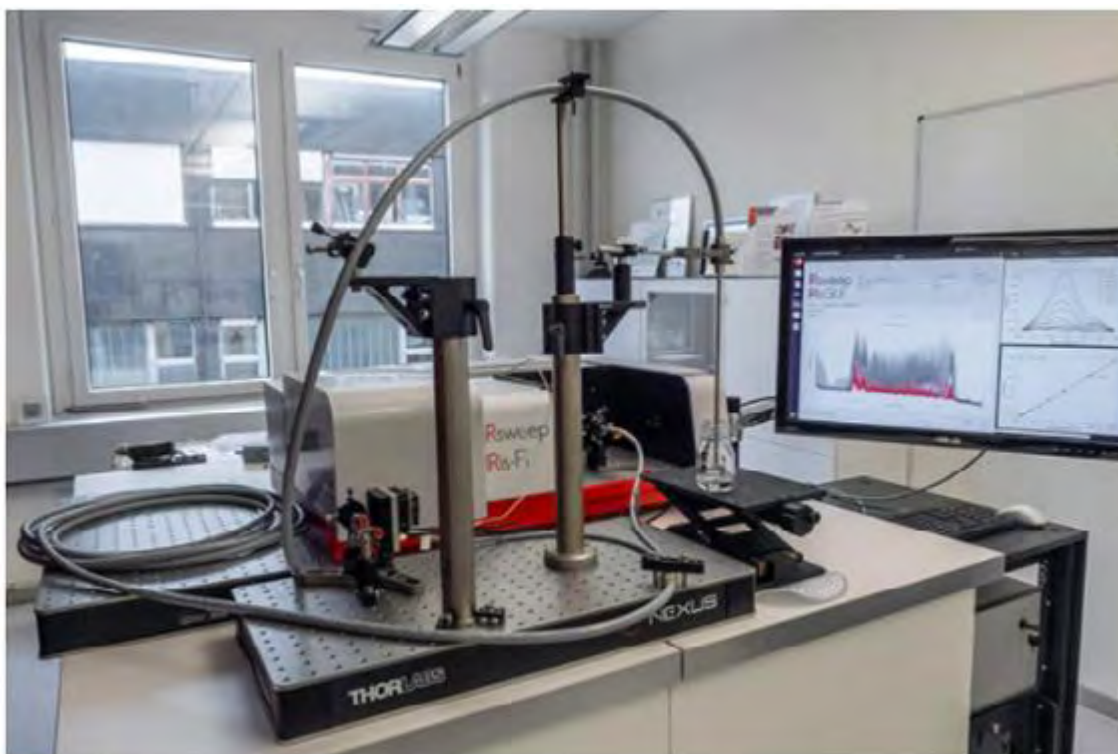
The World's Longest ATR Fiber Probe for Mid-IR Spectra

ATR spectroscopy in MIR spectral range ($\lambda = 2 - 18 \mu\text{m}$) is the most effective technique for the remote in-line monitoring of molecular composition in industrial and laboratory processes because characteristic bands of most molecular vibrations are related to this spectral range.

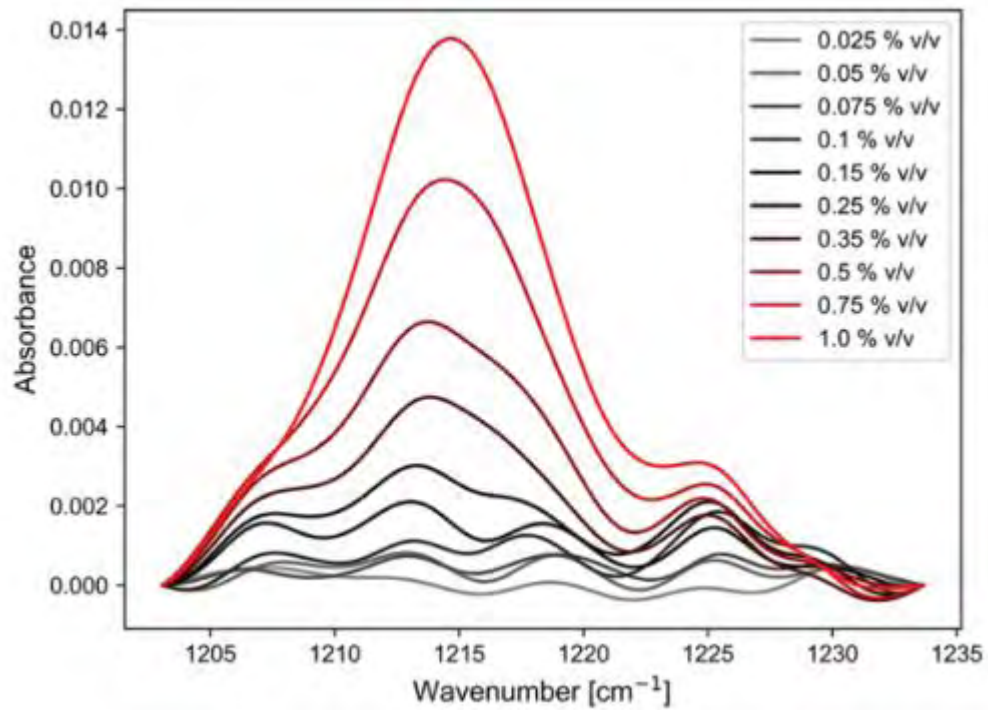
We are proud to announce the manufacturing of the longest ATR fiber probe for 6 – 16 μm spectral range.

While VIS and NIR fiber probes can be practically unlimited long (several hundred meters), fiber probes for mid-IR spectral range are usually limited by about 3-4m length due to the high attenuation in optical fibers. The solution to overcome this limitation is to increase the power of the light source.

IRis-F1 dual comb mid-IR spectrometer from IRsweep's is a perfect instrument to work with the 10m long ATR fiber probe for 6-16 μm spectral range providing a high signal-to-noise ratio. IRis-F1 is based on quantum cascade laser frequency combs with high power output with different lasers spanning predefined spectral ranges.



IRis-F1 spectrometer coupled with 10-meter-long ATR fiber probe



Concentration series of acetone in toluene after linear baseline correction.