

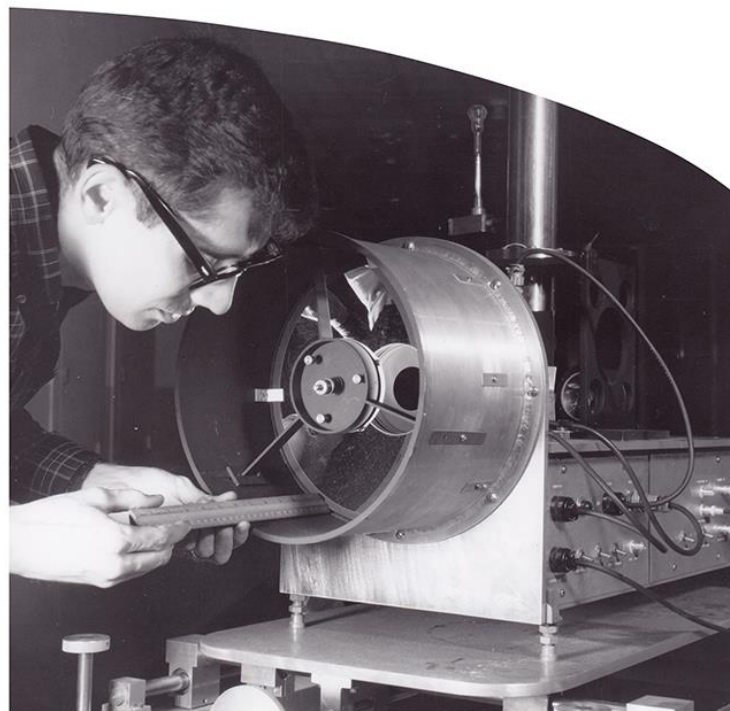


# Reinventing QCL Spectroscopy.

EPIC Annual General Meeting 2022, Vilnius  
Dr. Jan F. Kischkat, CEO, [kischkat@quantune.com](mailto:kischkat@quantune.com)



National Historic Chemical Landmarks  
Chemists and Chemistry that Transformed Our Lives



## A Novel Infrared Spectrometer and the Exploration of Mars

UNIVERSITY OF CALIFORNIA, BERKELEY

American Chemical Society

1967

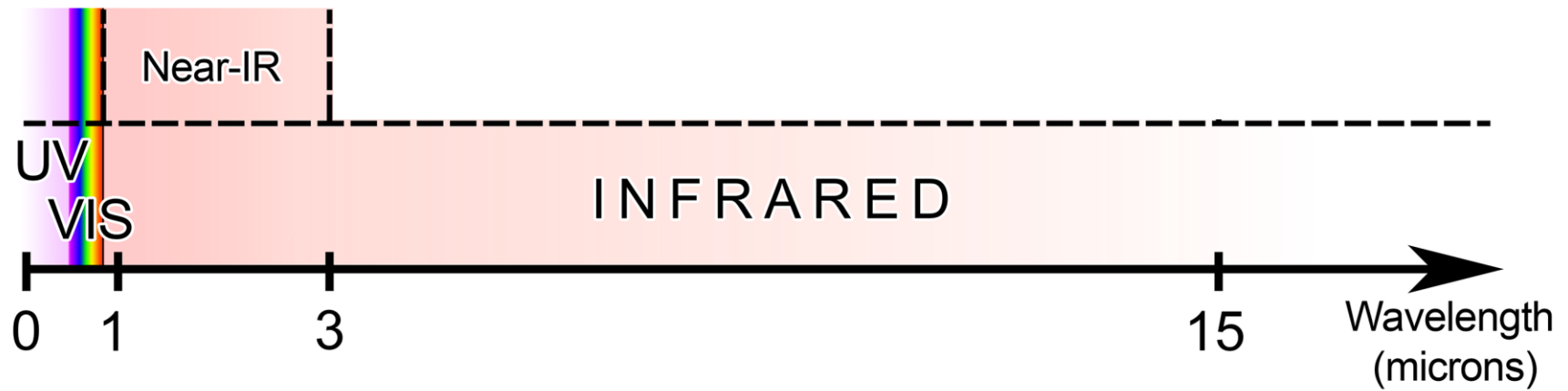


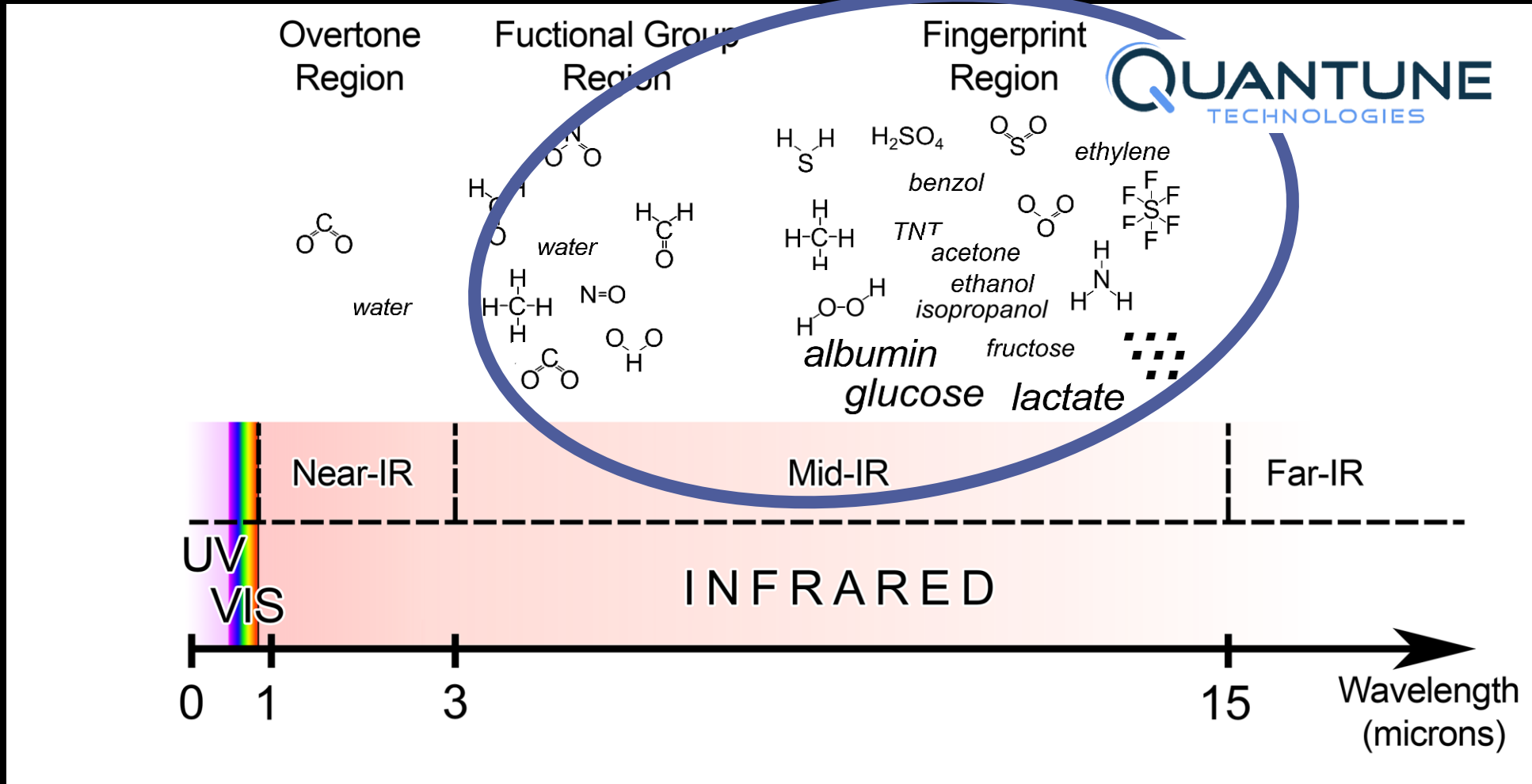
2022

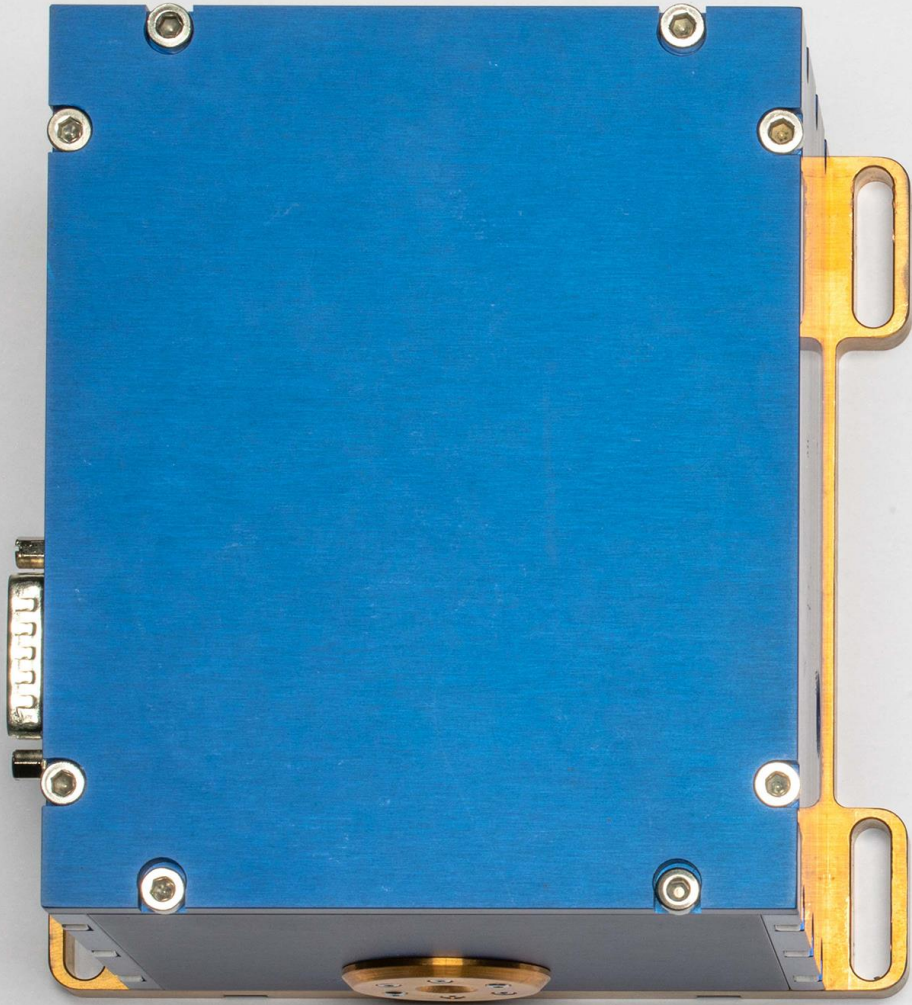
Overtone  
Region

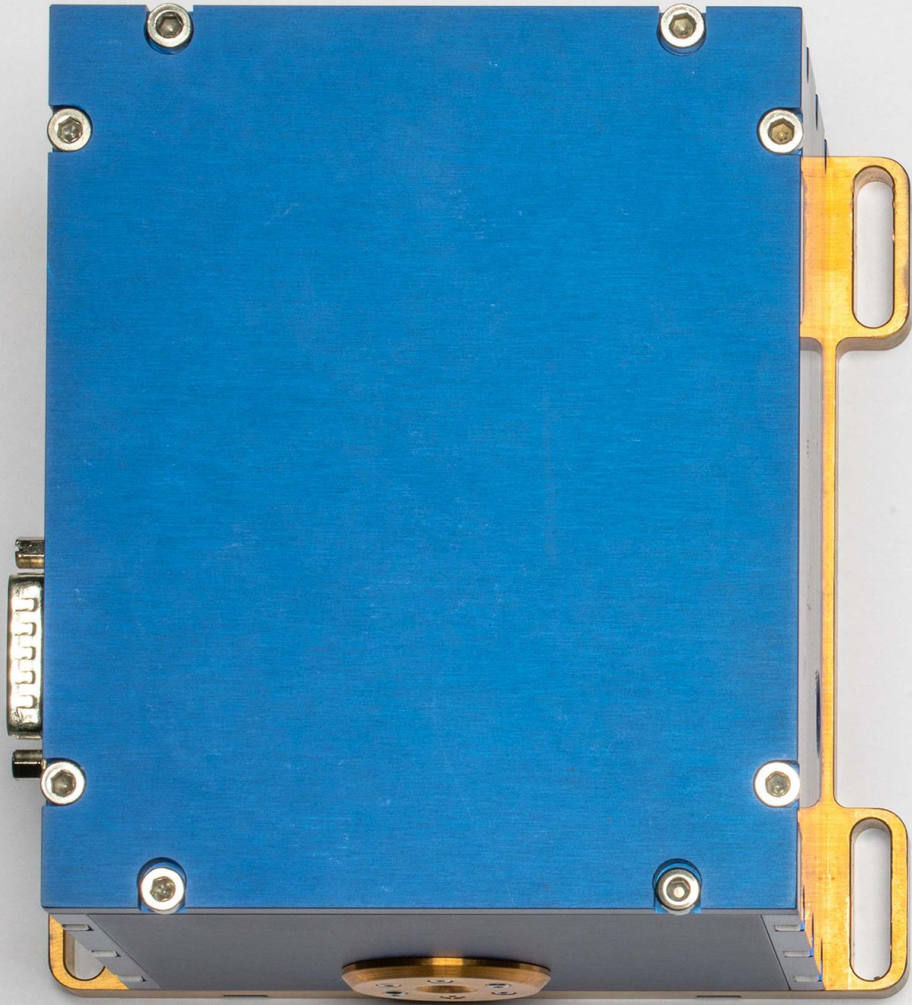


*water*



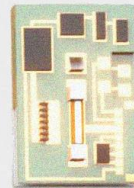
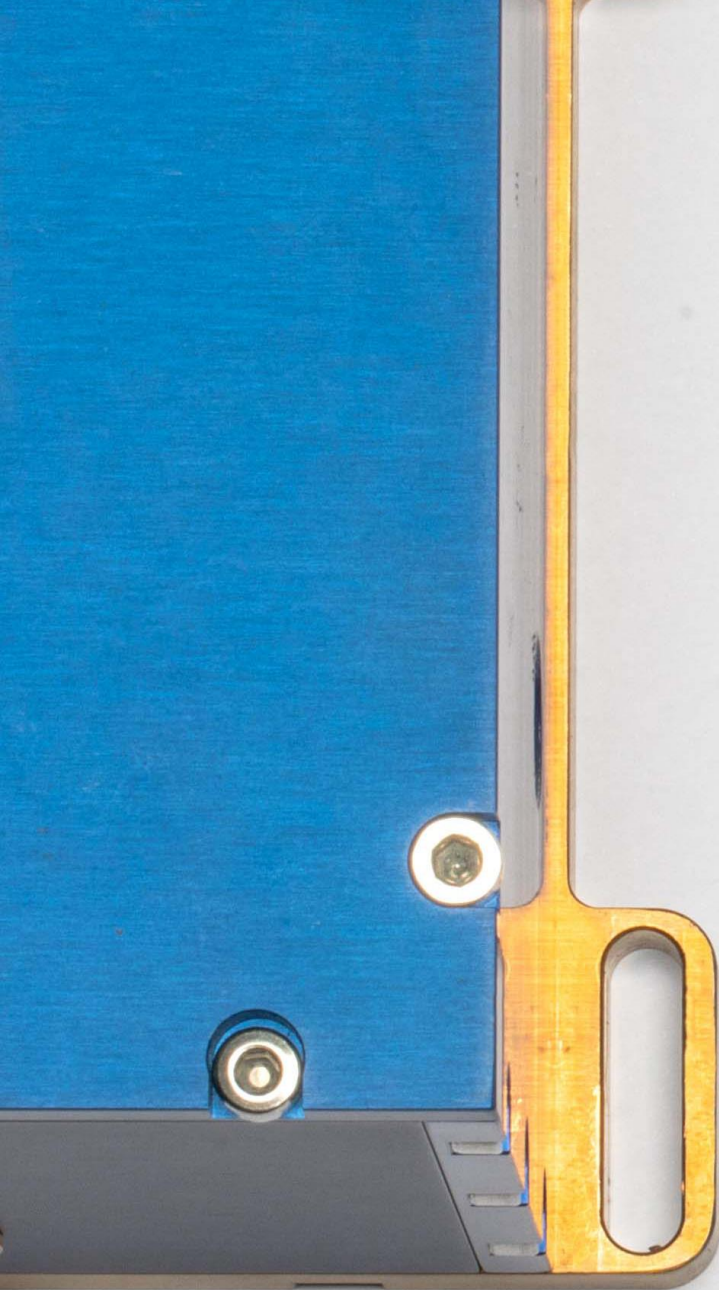




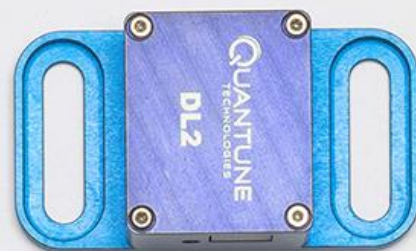


- Tuning range: 7.5 – 10.5  $\mu\text{m}$
- Resolution: 0.2  $\text{cm}^{-1}$
- Average Power: 50 mW
- SNR 10.000

# OSEC

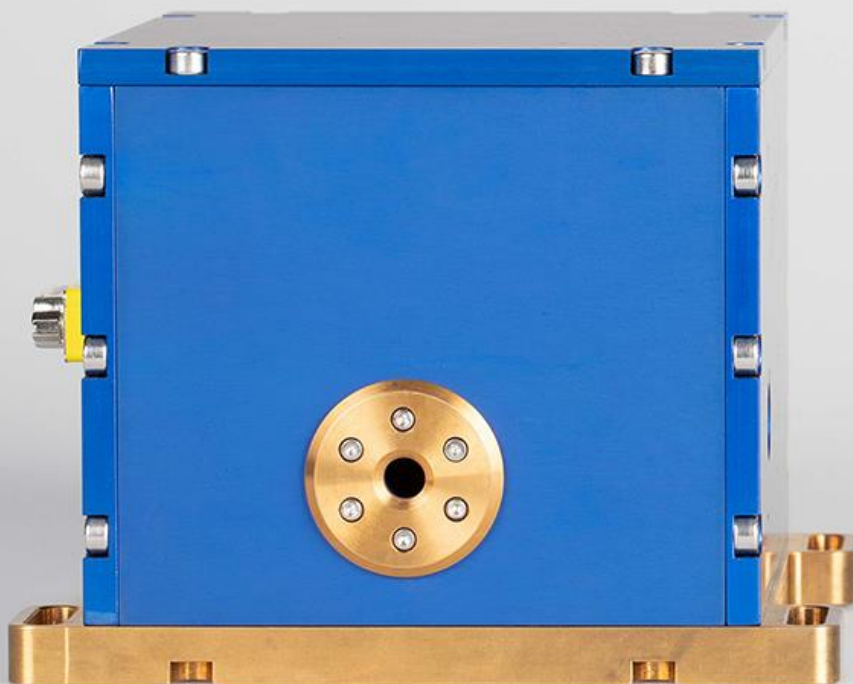






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External Cavity QCL



OSEC 2020



OSEC 2021



OSEC 2022

