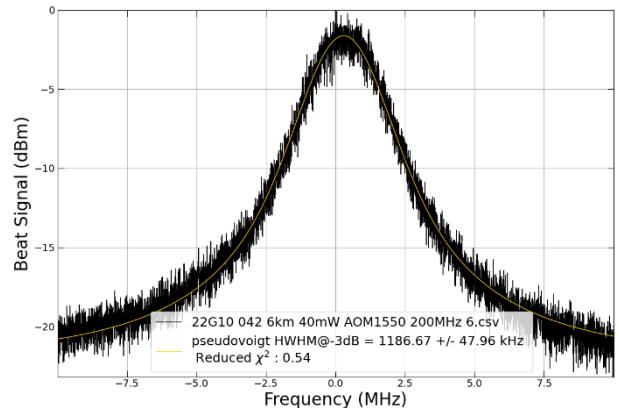
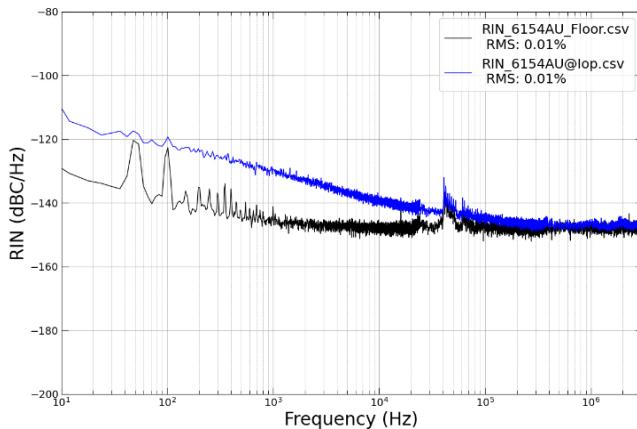
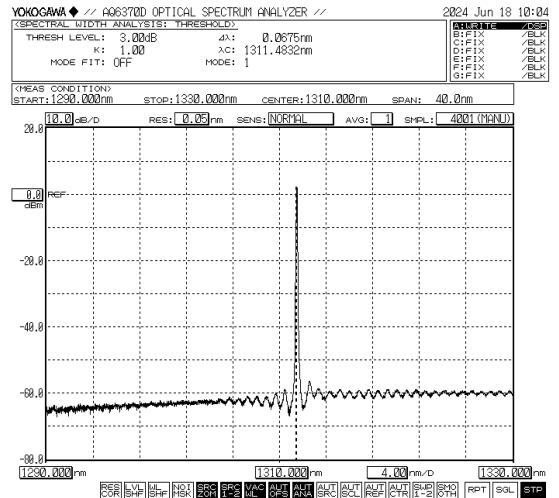
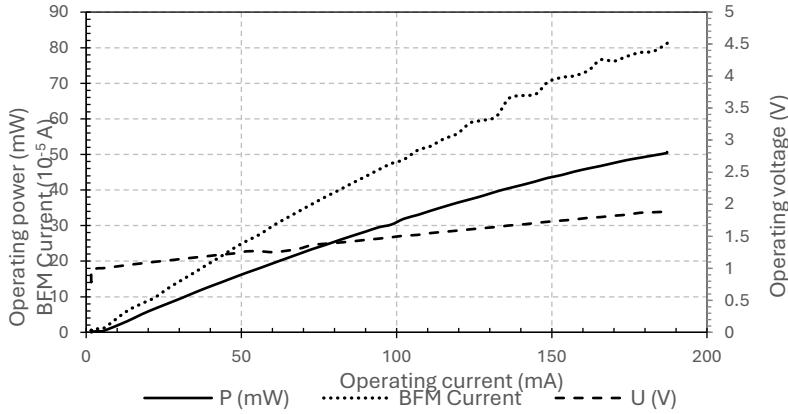


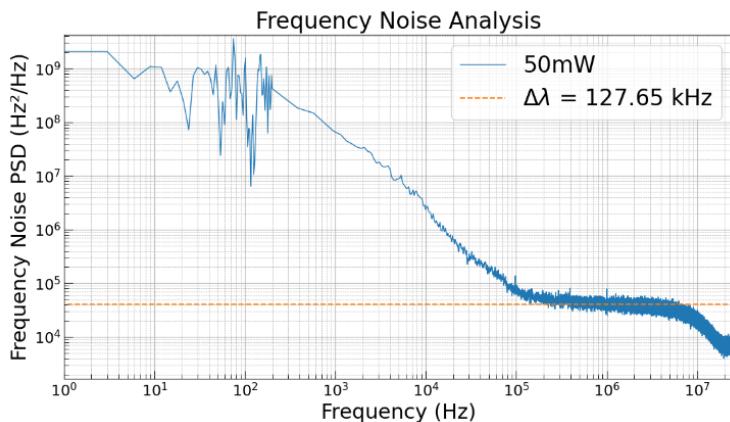
# 1310 nm laser diode

40mW / DFB / Butterfly package

**Power vs Current & Voltage vs Current @ 25,00 °C**



^ Beat Signal obtained from Self-Heterodyne measurements with 6 km delay fiber



Pseudovoigt fit :

$$\text{pseudovoigt}(f) = \text{offset} + A \left[ (1 - \eta) \cdot \frac{2\sqrt{2 \ln(2)}}{\Delta\lambda\sqrt{2\pi}} \exp\left(-\frac{4 \ln(2)(f - f_0)^2}{\Delta\lambda^2}\right) + \eta \cdot \frac{2}{1 + \left(\frac{2(f - f_0)}{\Delta\lambda}\right)^2} \right]$$

**Important note:** The self-heterodyne linewidth measurements were obtained with our optimized experimental setup. It is probable that the linewidth we measured is still limited by the overall noise of our non-ideal setup. We estimate an even narrower real linewidth for this diode, given at approx. 127 kHz through frequency noise measurement.