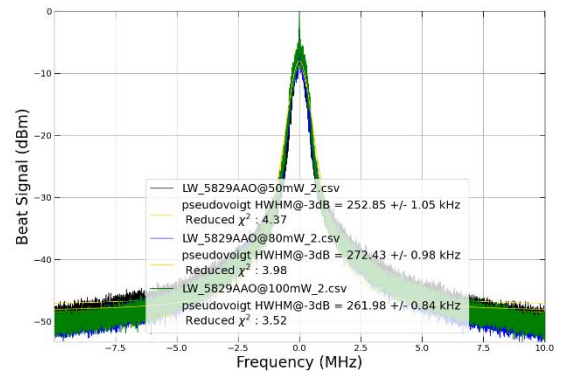
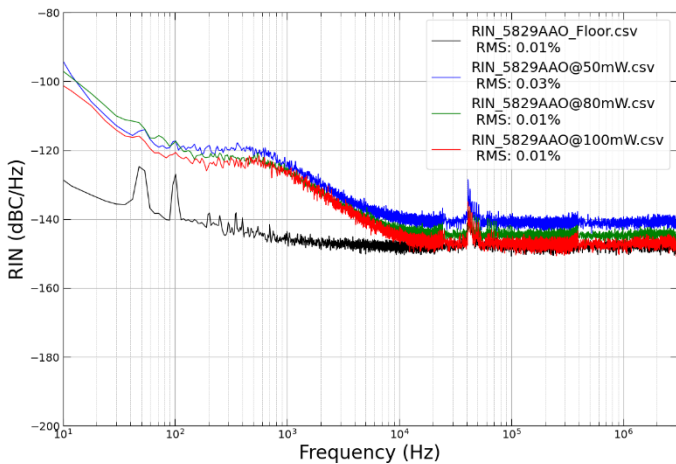
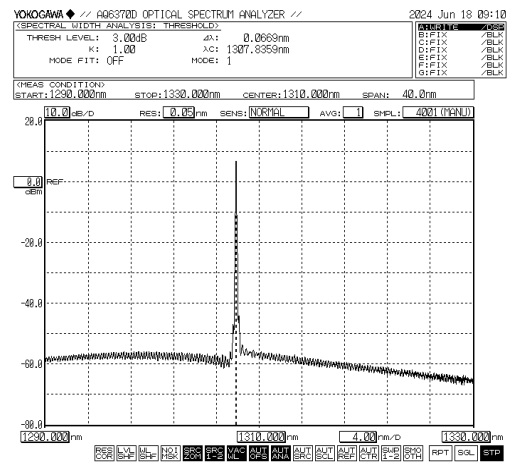
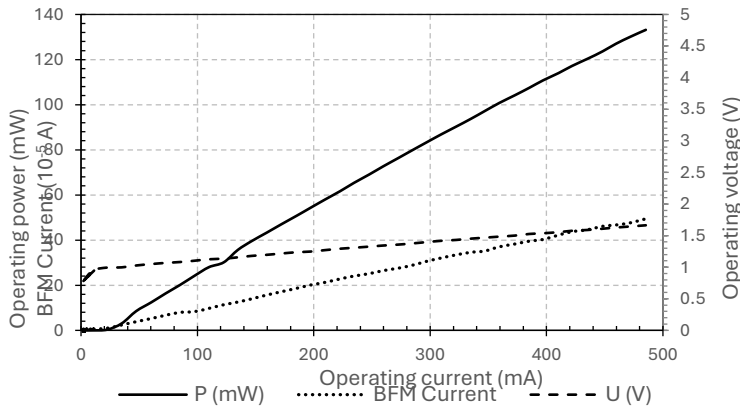


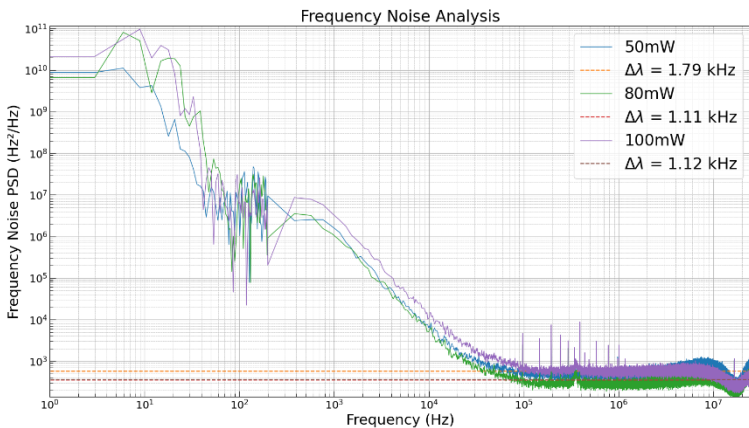
## 1310 nm laser diode

100mW / DFB / Butterfly package

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



^ Beat Signal obtained from Self-Heterodyne measurements with 12 km delay fiber



Pseudo-voigt fit :

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

**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. 1 kHz through frequency noise measurement.