

Datasheet for #sb95

Recommendations:

Please read the starter kit user manual (at least installation chapter 5), if available, and have a look at the FAQ at <http://www.alpeslasers.ch/alfaqa.pdf>

WARNING: Operating the laser with longer pulses, shorter period, or higher voltage or current than specified in this document may cause damage and will result in loss of warranty, unless agreed upon with Alpes Lasers!

WARNING: Beware of the polarity of the laser. This laser has to be powered with negative bias on the laser contact (= bonding pad, corresponding to the label "laser" on the LLH) and the positive bias on the base contact (= submount, corresponding to the label "base" on the LLH).

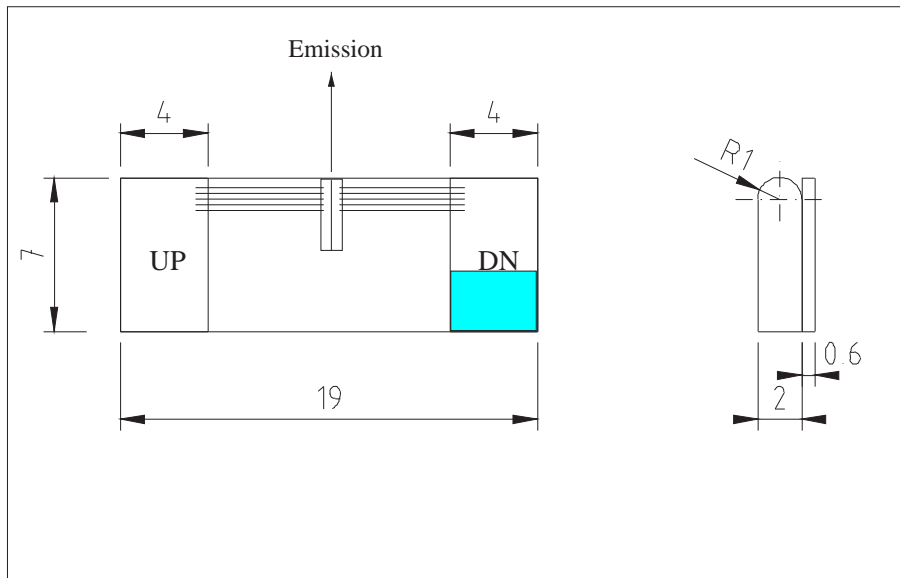


Figure 1: Support mounting for #sb95 (please note that the laser is connected to the DN pad drawn in blue)

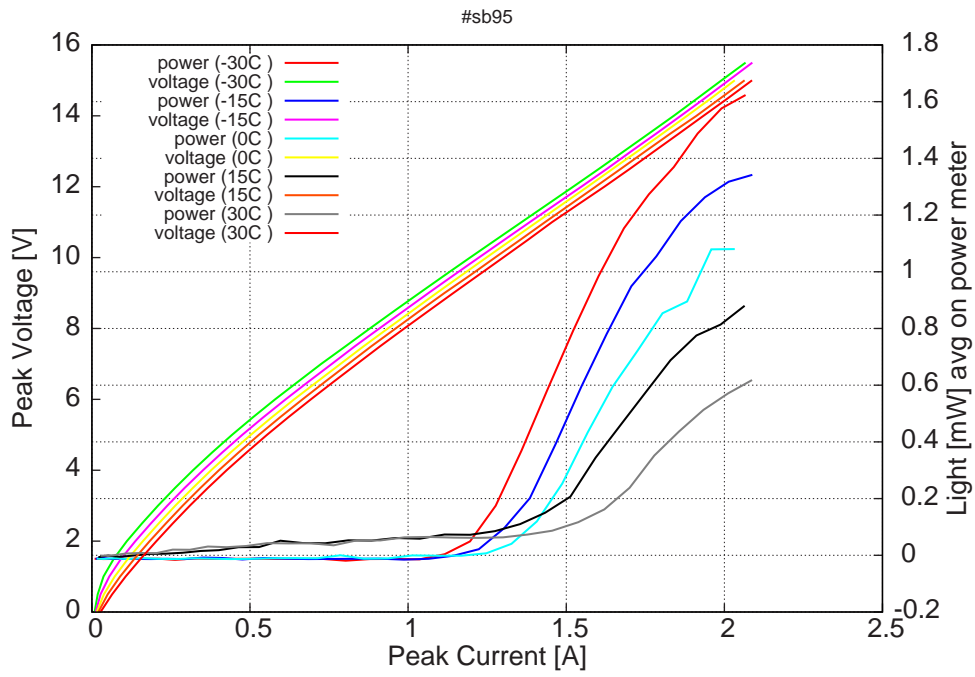


Figure 2: peak voltage and avg power vs peak current at 4% dc (the solid squares indicate the maximum singlemode emitted power)

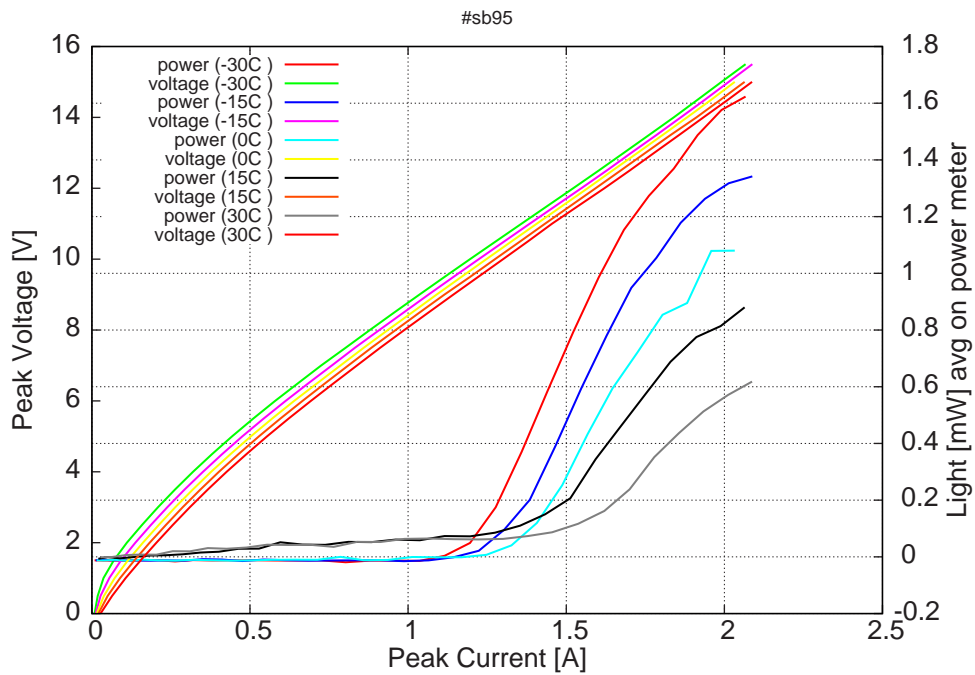


Figure 3: peak voltage and avg power vs peak current at 4% dc (including the multimode region)

Note: data taken with 50ns pulses, 1.25 μ s period.

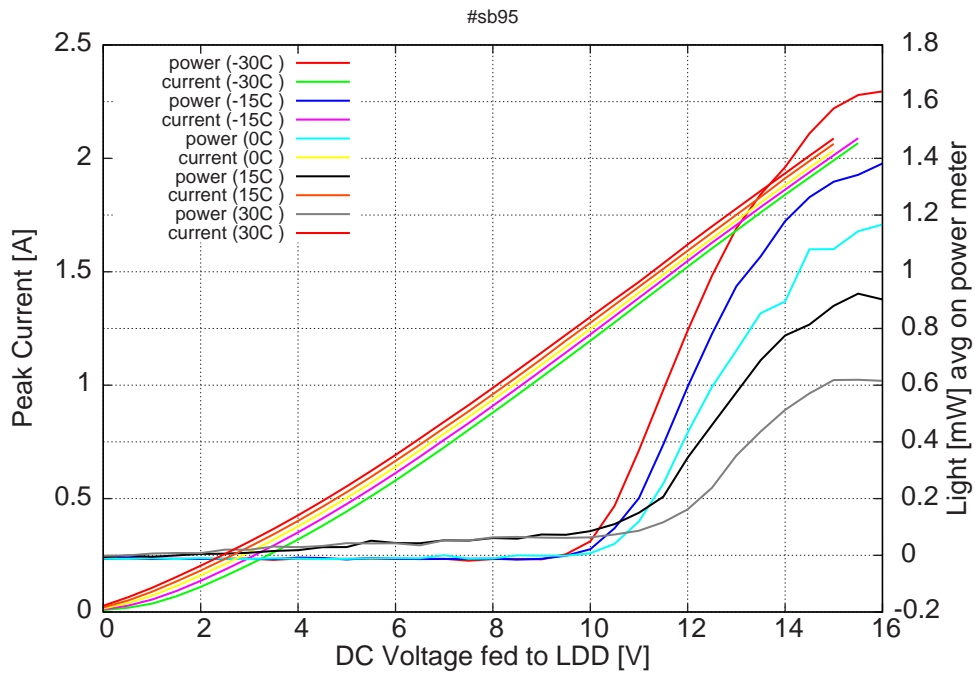


Figure 4: peak current and avg power vs LDD voltage at 4% dc (the solid squares indicate the maximum singlemode emitted power)

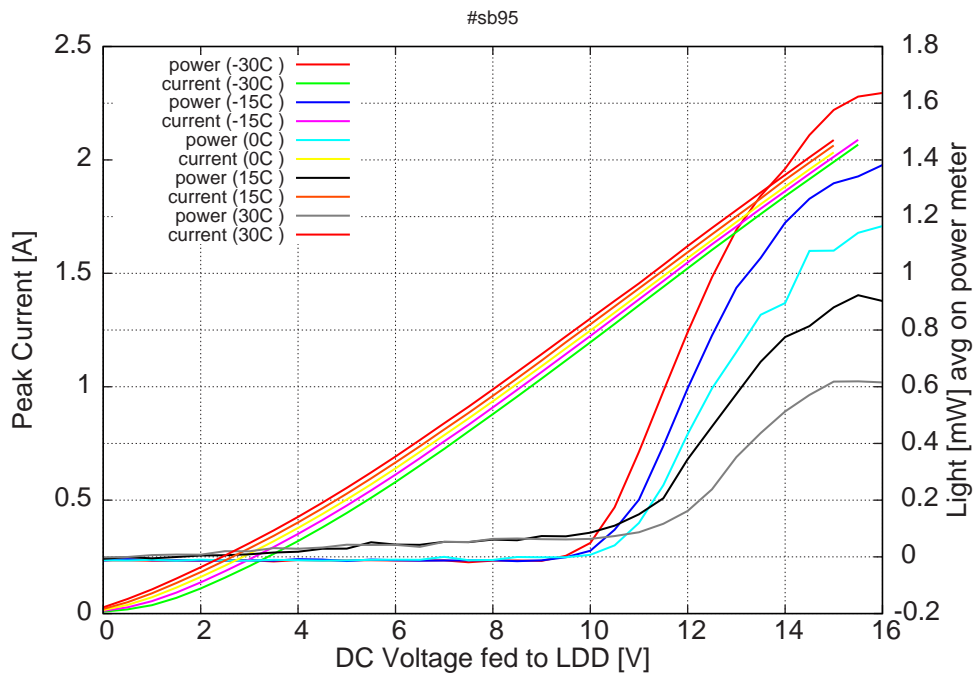


Figure 5: peak current and avg power vs LDD voltage at 4% dc (including the multimode region)

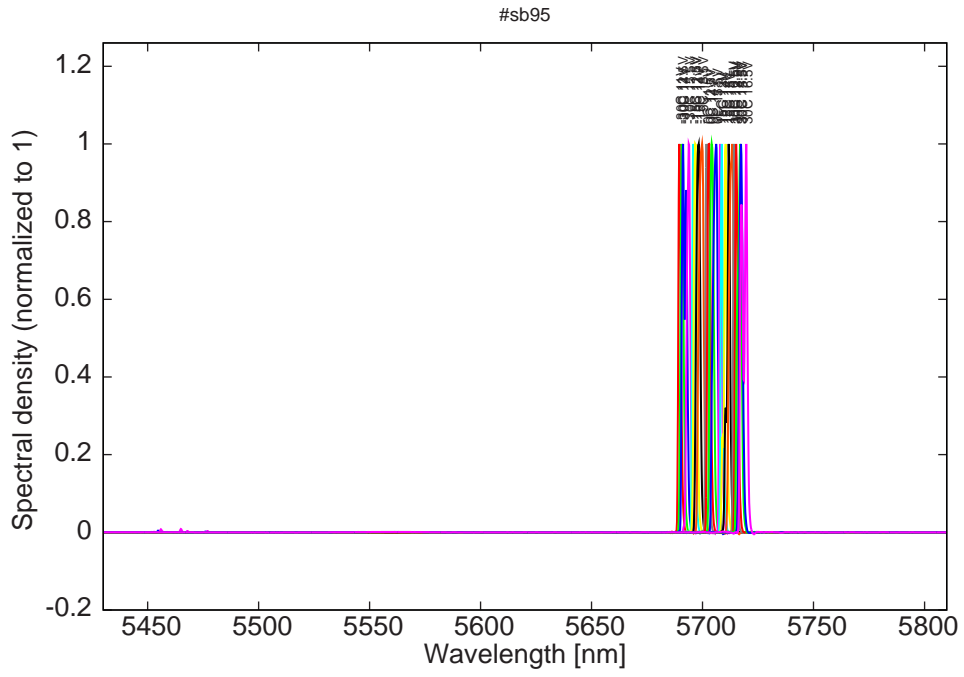


Figure 6: spectra at -30C, -15C, 0C, 15C and 30C at 4% dc for various LDD voltages

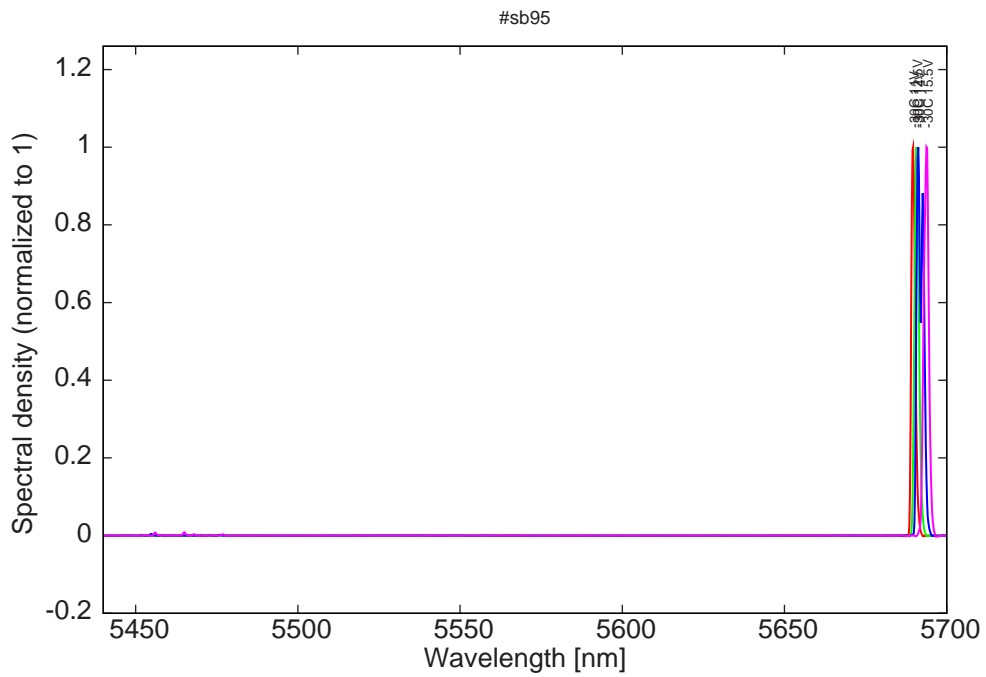


Figure 7: spectra at -30C at 4% dc for various LDD voltages

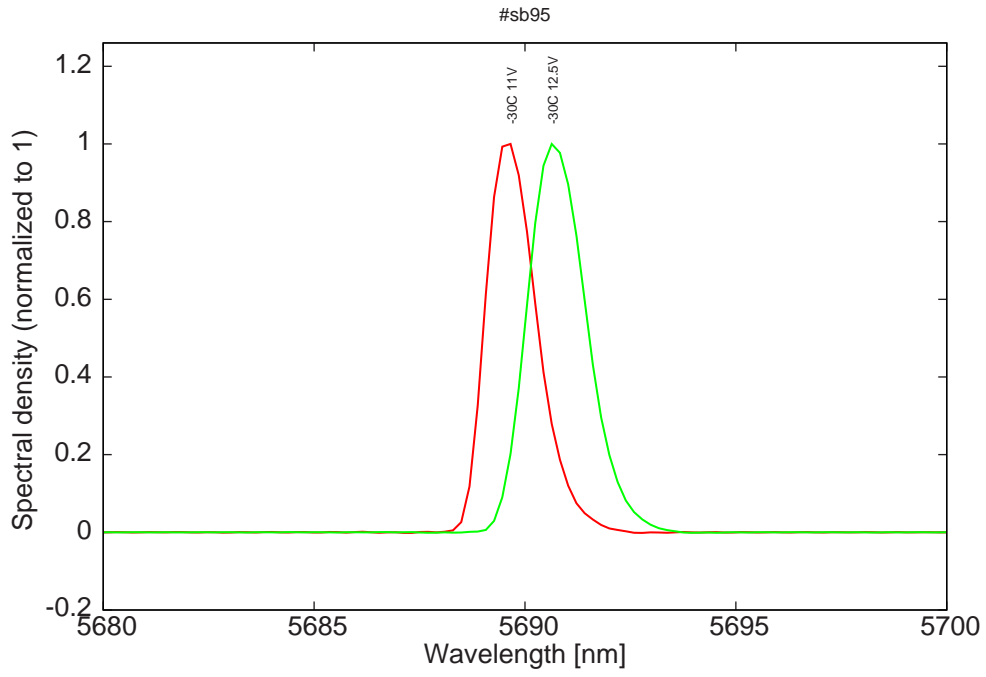


Figure 8: spectra at -30C at 4% dc for various LDD voltages (monomode range)

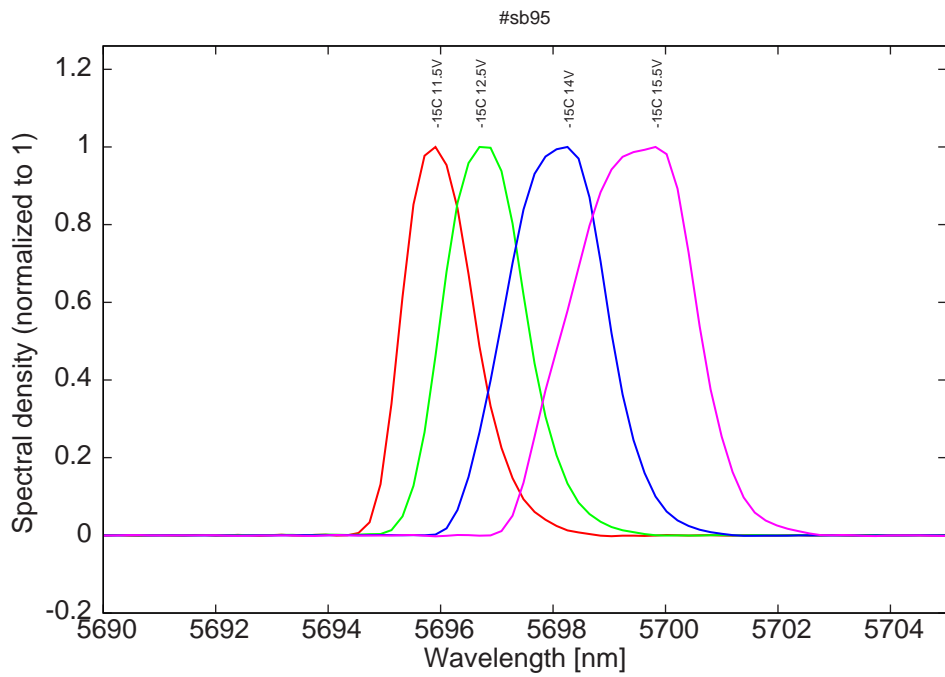


Figure 9: spectra at -15C at 4% dc for various LDD voltages

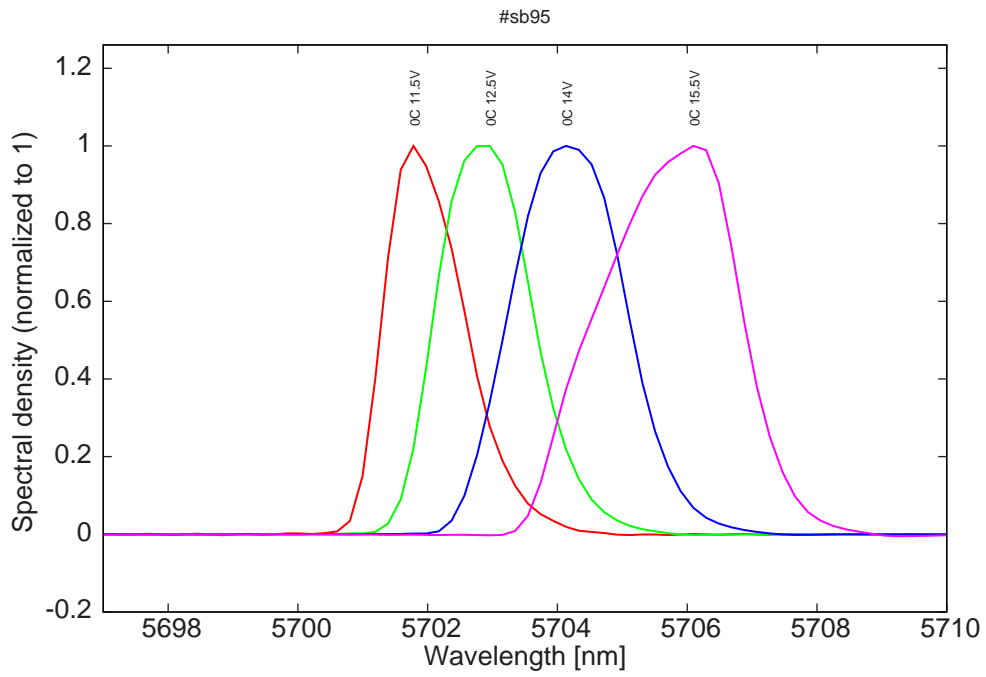


Figure 10: spectra at 0C at 4% dc for various LDD voltages

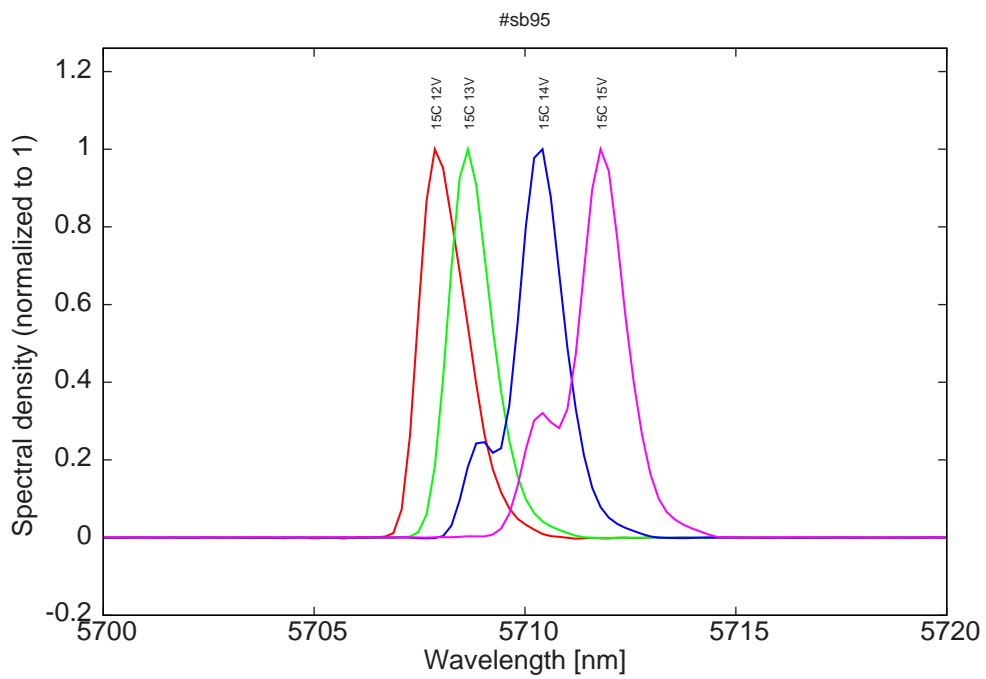


Figure 11: spectra at 15C at 4% dc for various LDD voltages

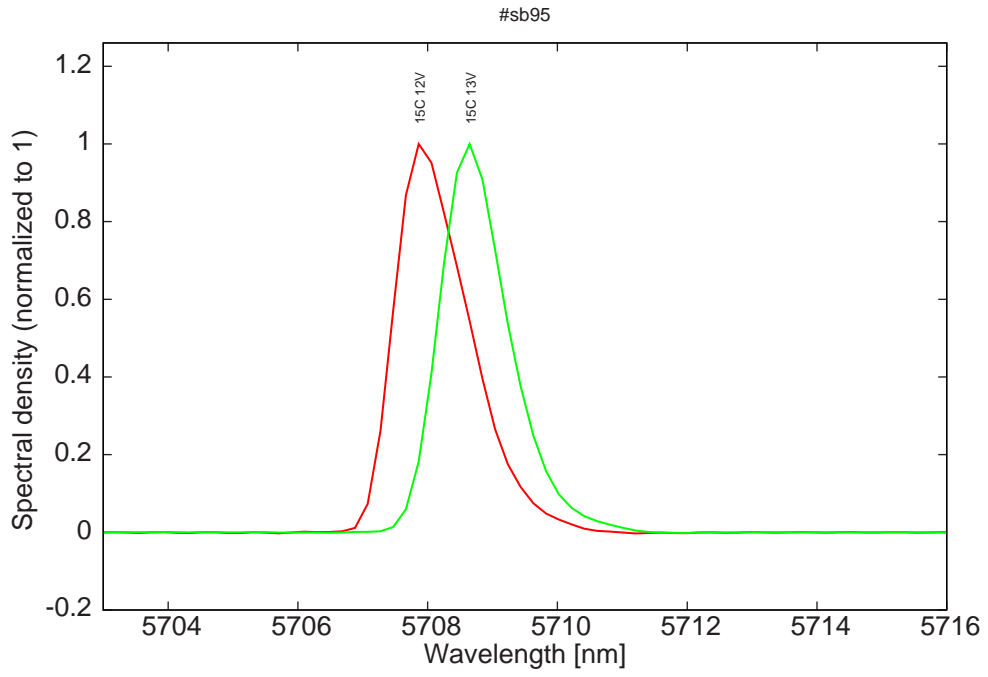


Figure 12: spectra at 15C at 4% dc for various LDD voltages (monomode range)

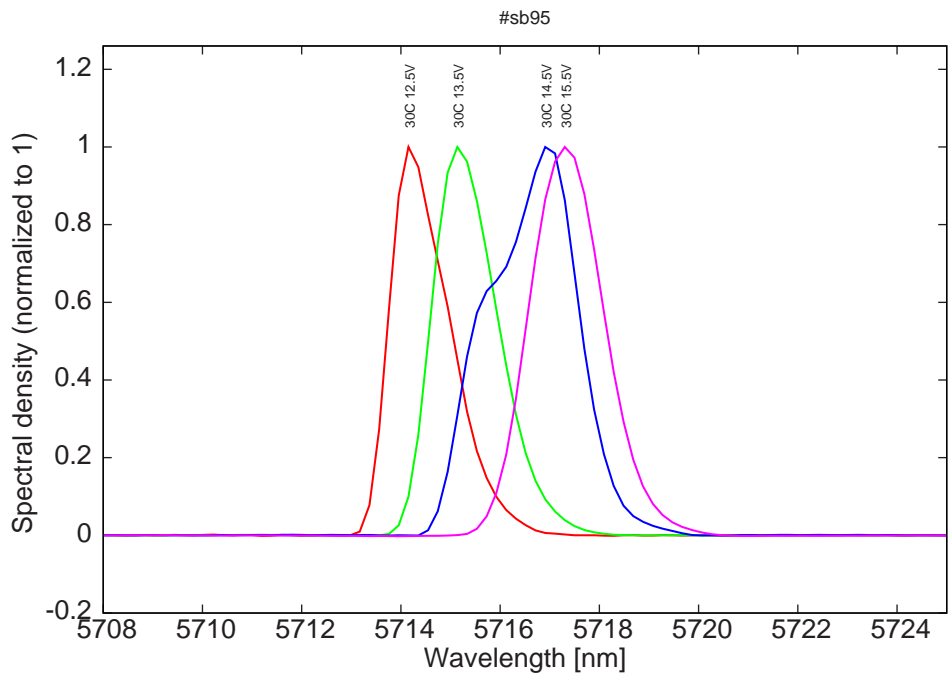


Figure 13: spectra at 30C at 4% dc for various LDD voltages

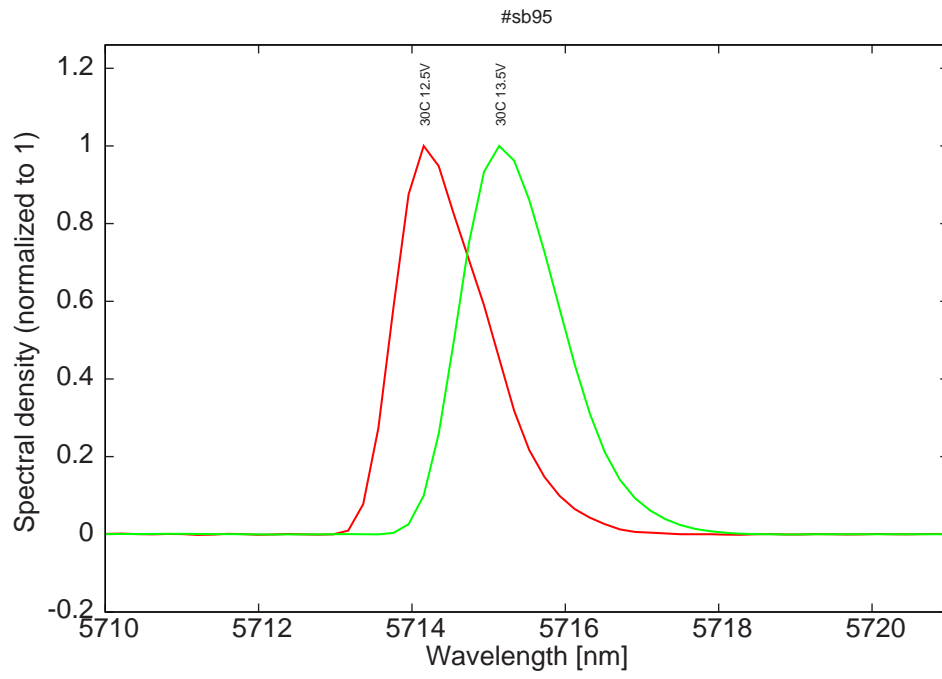


Figure 14: spectra at 30C at 4% dc for various LDD voltages (monomode range)