



658nm Wavelength Stabilized Laser: Reliability Data

In the data shown below, three TO-can stabilized laser diodes were operated at 35 mW at a temperature of 25 degree Celsius for up to 5,623 hours.

Figure 1 to 3 show the wavelength versus temperature measured with an ANDO AQ-6315A Optical Spectrum Analyzer (OSA).

Figure 1

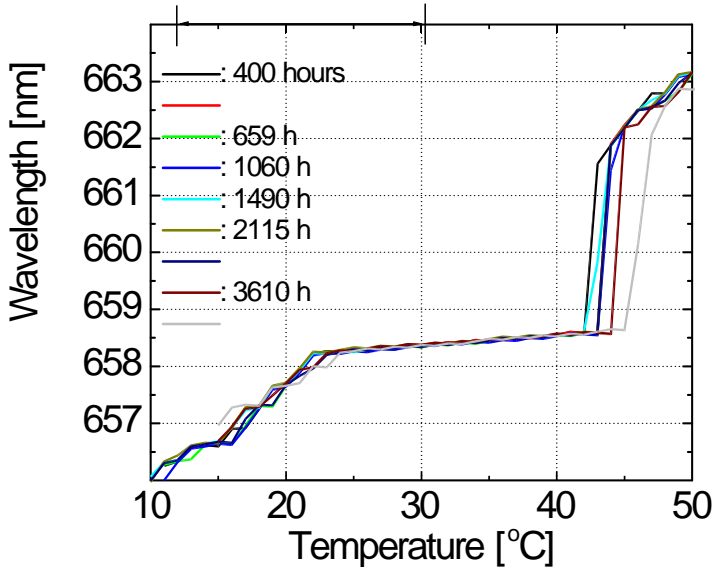


Figure 2

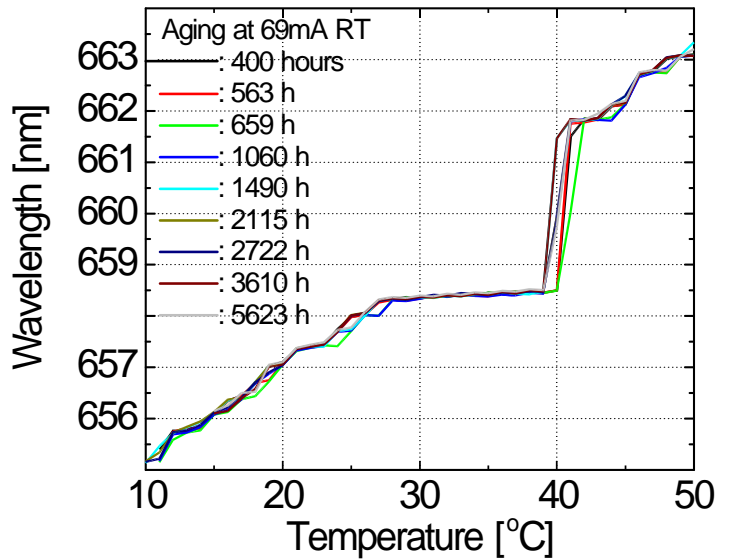
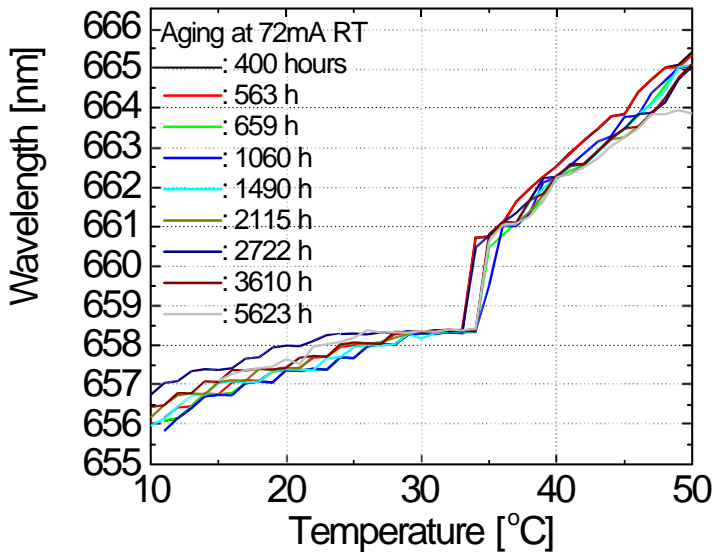


Figure 3



Parameter				SN21	SN22	SN29
Central Stabilized Temperature	Tc	°C	Min	28.00	32.00	33.00
			Avg	30.61	32.96	33.50
			Max	32.00	35.00	34.00
Stabilized Temperature Range	Tr	°C	Min	4.00	18.87	11.00
			Avg	6.11	20.23	11.67
			Max	10.00	20.99	12.00
Wavelength at Center of the stabilized range	WTc	nm	Min	658.31	658.37	658.38
			Avg	658.34	658.41	658.41
			Max	658.36	658.48	658.43

Table 1: statistics over 5,623 hour aging period