Test Report
RIO PLANEX™ Laser

Serial Number	120343
Part Number	RIO0195-5-34-4
Test Date	12/3/2024
Operator	JS
QA	WL

Parameter	Value	Units
Operating Temperature (Tset)*	23.5	°C
Operating Bias Current (Ibias)	151	mA
Maximum Bias Current (Imax)	170	mA
Output Power at Tset and Ibias	21.2	mW
Threshold Current	5.8	mA
Center Wavelength at Tset and Ibias	1550.139	nm
ITU Channel	34	-
Channel Offset	23	pm
Linewidth (Lorentzian FWHM)	1.70	kHz
Side Mode Suppression Ratio at Tset and Ibias	53	dB
Polarization Extinction Ratio (room temperature)	>25	dB

* Thermistor resistance: 10.720 kΩ at Tset

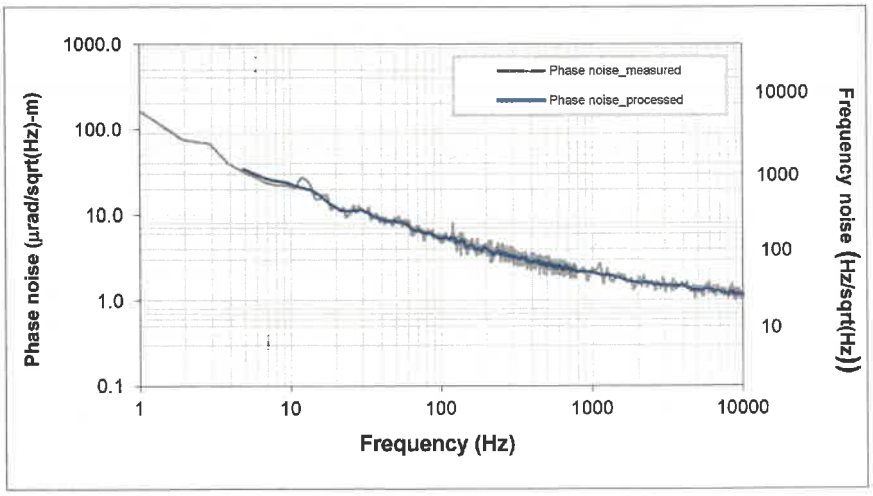

Fig.1: Phase Noise at Rset, Ibias, normalized to 1m path difference

Proprietary Information

OptaSense, Inc. DBA Redfern Integrated Optics
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Santa Clara, CA 95054 USA

Tel (408) 970 3500
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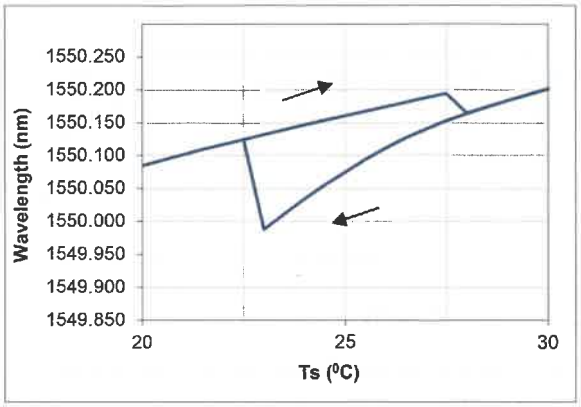

Fig.2: Wavelength vs. Tset at Ibias

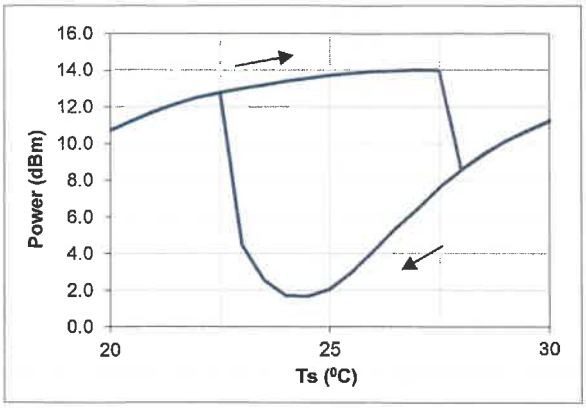

Fig.3: Power vs. Tset at Ibias

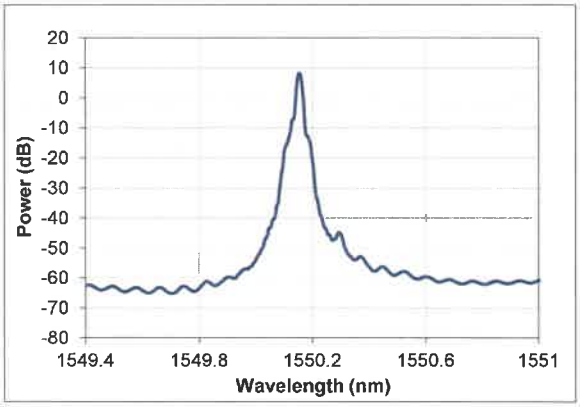

Fig.4: Spectrum (CW, Tset, Ibias)

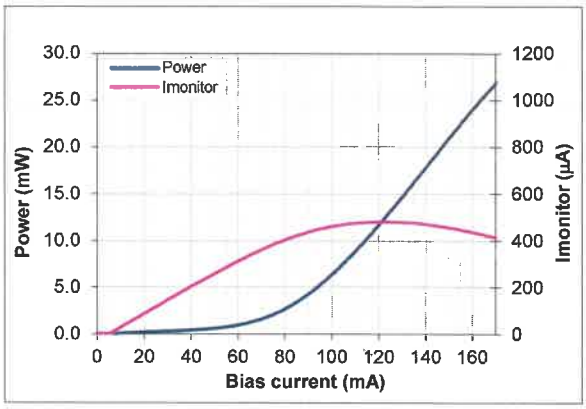

Fig.5: Laser Output Power and Imonitor vs. Bias Current at Tset

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