

Product Test Sheet

Product Information

Product Name	ASE Broadband Light Source
Product Code	STASE-1010/1100-50-T-PM-B (LL-ASE-1010/1100-50-T-PMF-B)
Serial Number	25120107
Test Date	2025/12/25
Test Result	Pass
Tested by	ZWL

Optical Parameters

Parameter	Unit	Requirement	Test Value	Test Result
Operating Wavelength	nm	1010~1100(±2)	1009.6~1096.2 @20dB	☒ Pass ☐ Fail
Output Power	mW	5~50	5~50	☒ Pass ☐ Fail
Polarization Extinction Ratio	dB	No requirement	25	☒ Pass ☐ Fail
Power Peak stability (P-P)	-	No requirement	±0.18%@50mW, 60min	☒ Pass ☐ Fail
Power stability (RMS)	-	No requirement	0.12%@50mW, 60min	☒ Pass ☐ Fail
Output Port Isolation	dB	No requirement	35	☒ Pass ☐ Fail

Product Specifications

Operation Temperature Range	°C	-5~+50	
Operation Humidity Range	%	0~70	
Storage Temperature Range	°C	-40~+85	
Power Supply	-	AC 100-240	E.U Standard
Electrical Power Consumption	W	10	25°C
Fiber Connector	-	FC/APC	
Input/Output Fiber Type	-	PM980 Single Mode Fiber	Φ3mm×1m
Optical Fiber Sleeve	-	Loose tube(Φ=3mm), blue color	
Dimensions	mm	255(W)×285(D)×115(H)	Bench-top
Remote Control Port	-	RS232-DB9	
Software Version	-	Laser Controller-V20250410	

SIMTRUM China
Telephone: +86 133 2643 0008
Email: info@simtrum.com

SIMTRUM Singapore
Telephone: +65 6996 0391
Email: info@simtrum.com



8 Evaluation

8.1 General

The standard deviation, s , from n readings m_i is calculated according to

$$s = \sqrt{\frac{\sum_{i=1}^n (m_i - \bar{m})^2}{n-1}}$$
 (3)

Where the mean value is

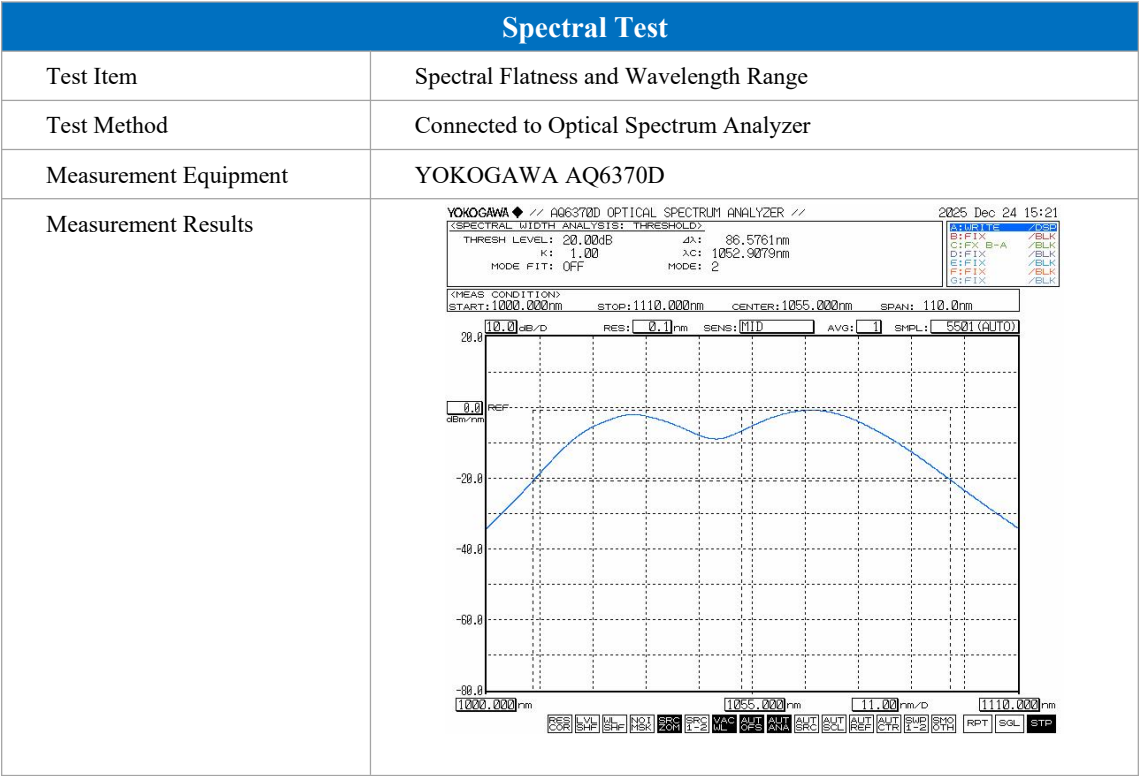
$$\bar{m} = \frac{\sum_{i=1}^n m_i}{n}$$
 (4)

8.3 Power stability of cw lasers

Calculate the mean value of the power, $\bar{P}$, and the respective standard deviation, s , for the appropriate stability time domain (short-term, medium-short-term, medium-term and long-term) according to the specifications given in 7.3.

Power stability is given as the relative power fluctuation, ΔP , in the corresponding stability time domain calculated from Formula (9):

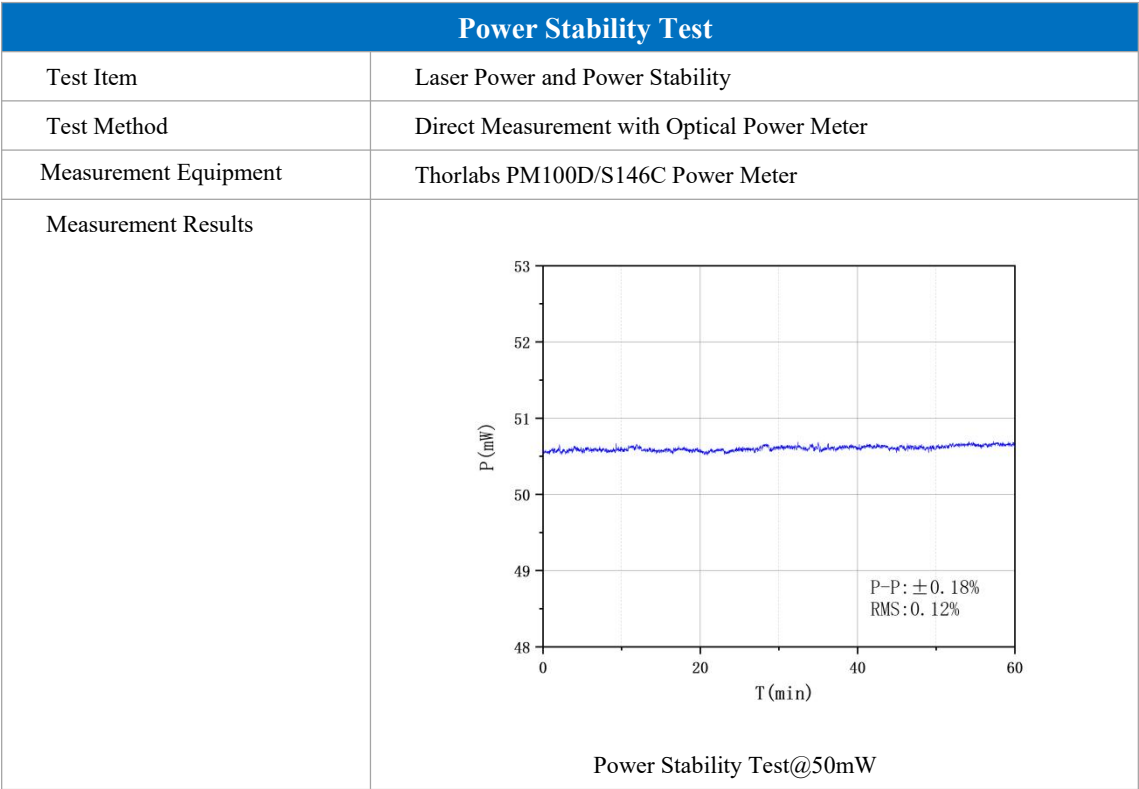
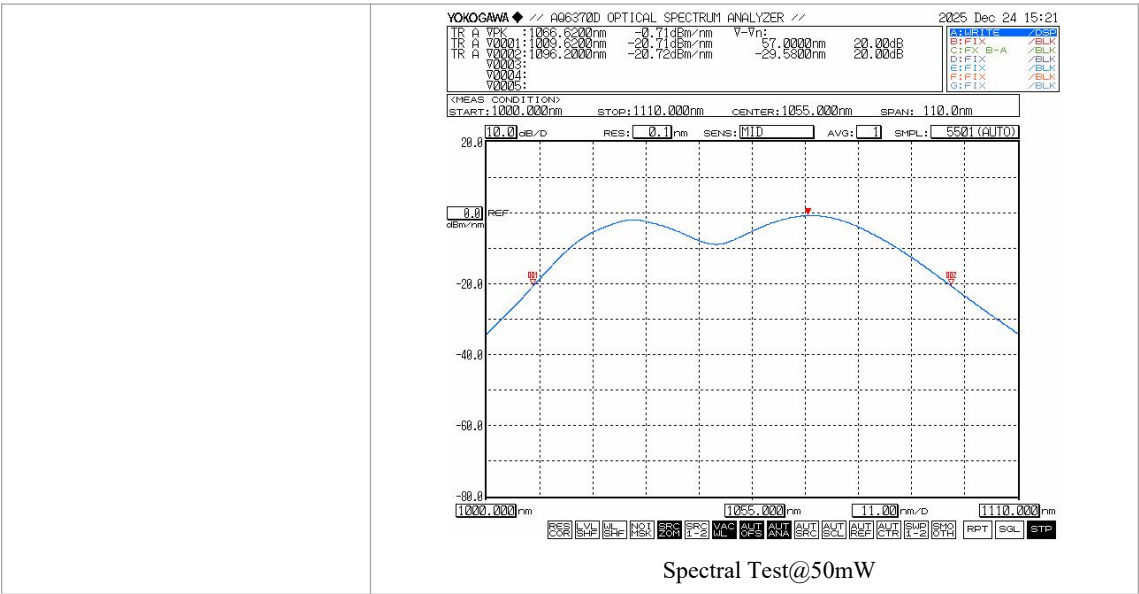
$$\Delta P = \frac{2s}{\bar{P}}$$
 (9)



SIMTRUM China
Telephone: +86 133 2643 0008
Email: info@simtrum.com

SIMTRUM Singapore
Telephone: +65 6996 0391
Email: info@simtrum.com





SIMTRUM China
 Telephone: +86 133 2643 0008
 Email: info@simtrum.com

SIMTRUM Singapore
 Telephone: +65 6996 0391
 Email: info@simtrum.com

