

Product Test Sheet

Product Information

Product Name	ASE Broadband Light Source
Product Code	STASE-C-200-PM-B (LL-ASE-C-200-PMF-B)
Serial Number	26011904
Test Date	2026/02/04
Test Result	Pass
Tested by	ZWL

Optical Parameters

Parameter	Unit	Requirement	Test Value	Test Result	
Operating Wavelength	nm	1528~1568(±0.5)	1527.7~1568.1 @3dB	☒ Pass	☐ Fail
Output Power	mW	20~200	20~200	☒ Pass	☐ Fail
Polarization Extinction Ratio	dB	No requirement	25	☒ Pass	☐ Fail
Power Peak stability (P-P)	-	No requirement	±0.17%@200mW, 60min	☒ Pass	☐ Fail
Power stability (RMS)	-	No requirement	0.11%@200mW, 60min	☒ Pass	☐ Fail
Output Port Isolation	dB	No requirement	35	☒ Pass	☐ Fail

Product Specifications

Operation Temperature Range	℃	-5~+50	
Operation Humidity Range	%	0~70	
Storage Temperature Range	℃	-40~+85	
Power Supply	-	AC 100-240	E.U Standard
Electrical Power Consumption	W	12	25℃
Fiber Connector	-	FC/APC	
Input/Output Fiber Type	-	PM1550 Single Mode Fiber	Φ3mm×1m
Optical Fiber Sleeve	-	Loose tube(Φ=3mm), yellow color	
Dimensions	mm	255(W)×285(D)×115(H)	Bench-top
Remote Control Port	-	RS232-DB9	
Software Version	-	Laser Controller-V20250410	

Power Instability: ISO 11554-2017

8 Evaluation

8.1 General

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

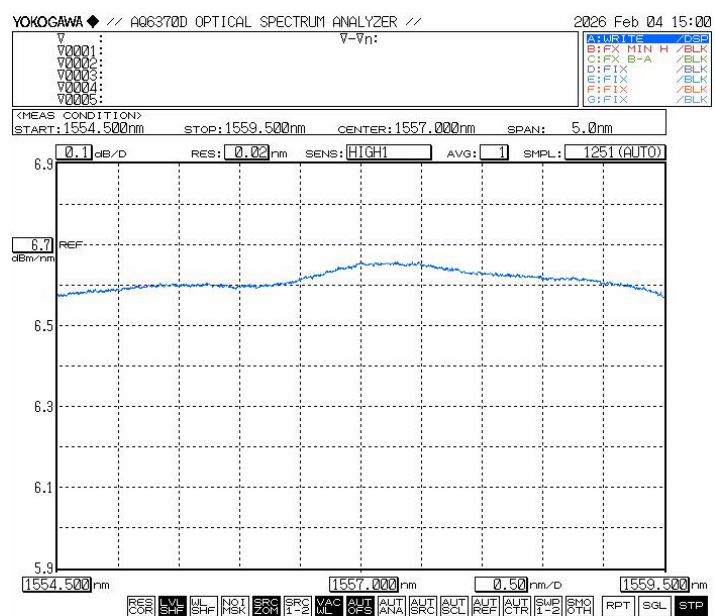
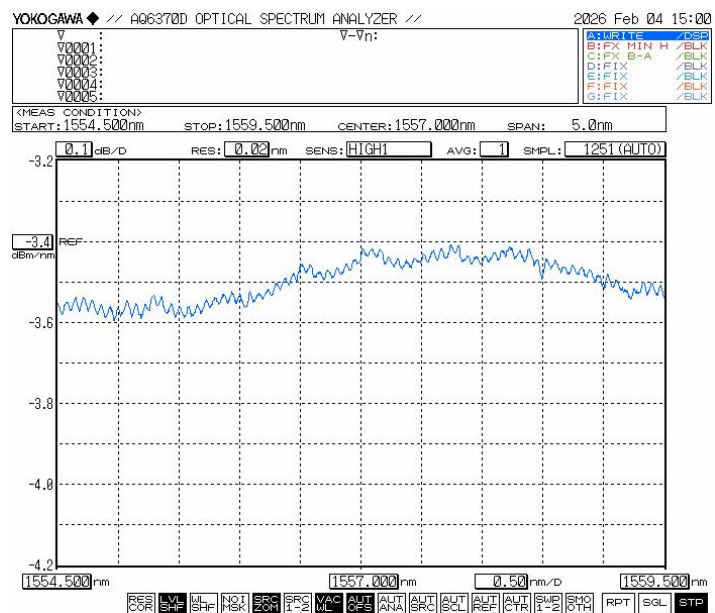
$$s = \sqrt{\frac{\sum_{i=1}^n (m_i - \bar{m})^2}{n-1}} \quad (3)$$

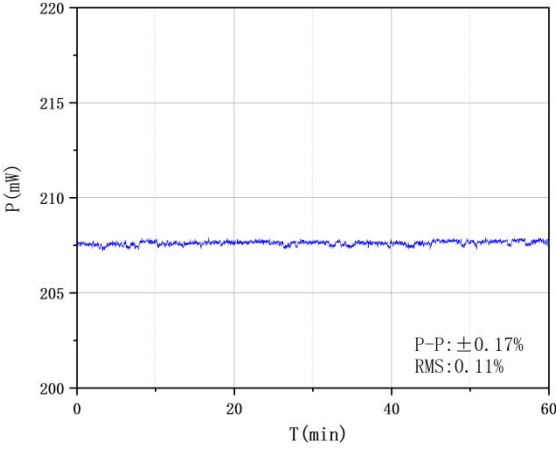
Where the mean value is

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

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.

$$\Delta P = \frac{2s}{P} \quad (9)$$
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Power Stability Test	
Test Item	Laser Power and Power Stability
Test Method	Direct Measurement with Optical Power Meter
Measurement Equipment	Thorlabs PM100D/S146C Power Meter
Measurement Results	 Power Stability Test@200mW