Agilent 81672B				1.12
Wavelength range	1260 nm to 1375 nm			
Wavelength resolution	0.1 pm, 17.7 MHz at 1300 nm			
Mode-hop free tuning range [12]	Full wavelength range			
Max. Tuning speed	80 nm/s			
	Specification under static condition	Add-on specification under dynamic condition (typ.) [11]		
		@5 nm/s	@40 nm/s	@80 nm/s
Absolute wavelength accuracy [1, 2, 12]	±10 pm	±0.4 pm	±1.0 pm	±2.5 pm
Relative wavelength accuracy [1, 2, 12]	±5 pm, typ. ±2 pm	±0.4 pm	±0.8 pm	±2.0 pm
Wavelength repeatability [2, 12]	±0.8 pm, typ. ±0.5 pm			
		Specification under dynamic condition (typ.)		
Dynamic wavelength repeatability [2, 11, 12]		±0.3 pm	±0.4 pm	±0.7 pm
Wavelength stability [2, 12] (typ., 24 hours at constant temperature)	≤ ±1 pm			
Linewidth (typ.), coherence control off Effective linewidth (typ.), coherence ctrl. on	100 kHz > 50 MHz (1270 NM - 1350 nm at flat output power)			
Output power (continuous power during tuning)	≥ + 9 dBm peak typ ≥ +7 dBm (1290 nm – 1370 nm) ≥ +3 dBm (1270 nm – 1375 nm) ≥ 0 dBm (1260 nm – 1375 nm)			
Minimum output power	0 dBm			
Power linearity	±0.1 dB (1260 nm – 1350 nm) typ. ±0.1 dB (1350 nm – 1375 nm) [12]			
Power stability [9]	±0.01 dB, 1 hour (1260 nm – 1350 nm) typ. ±0.01 dB, 1 hour (1350 nm – 1375 nm) [12] typ. ±0.03 dB, 24 hours [12]			
	Specifications under static condition	Dynamic relative power flatness (typ.) [10, 11]		
		@5 nm/s	@40 nm/s	@80 nm/s
Power flatness versus wavelength [12]	±0.2 dB, typ. ±0.1 dB (1260 nm – 1350 nm) typ. ±0.2 dB [12] (1350 nm – 1375 nm)	±5 mdB	±15 mdB	±30 mdB
Dynamic power reproducibility (typ.) [9, 10, 11]		±5 mdB	±10 mdB	±15 mdB
Power repeatability (typ.) [9, 12]	±3 mdB			
Side-mode suppression ratio (typ.) [4, 8, 12]	≥ 40 dB (1270 nm – 1375 nm)			

Signal to source spontaneous emission ratio [5, 6, 8]	≥ 45 dB/ nm (1290 nm – 1370 nm) ≥ 40 dB/ nm (1270 nm – 1375 nm) ≥ 35 dB/ nm (typ., 1260 nm – 1375 nm) [12]
Signal to total source spontaneous emission ratio (typ.) [6, 8]	≥ 28 dB (1290 nm – 1370 nm)
Relative intensity noise (RIN, typ.) [8]	-145 dB/Hz (1270 nm – 1375 nm)

1. Valid for one month and within a ±4.4 K temperature range after automatic wavelength zeroing. Wavelength zeroing is an internal function that performs an automatic self-adjustment.
2. At CW operation. Measured with wavelength meter based on wavelength in vacuum.
4. Measured by heterodyne method.
5. Value for 1 nm resolution bandwidth.
6. Measured with optical spectrum analyzer.
8. Output power as specified per wavelength range.
9. Warm up time 1 hour.
10. Valid for absolute humidity of 11.5 g/m^3 (For example: Equivalent to 25°C and 50% relative humidity).
11. Conditions: Wavelength range 1300 nm to 1350 nm at flat output power ≥ 3 dBm
12. Wavelength must not be equal to any water absorption line