

Optical Bandpass Filter Measurement Solution

MS9740A

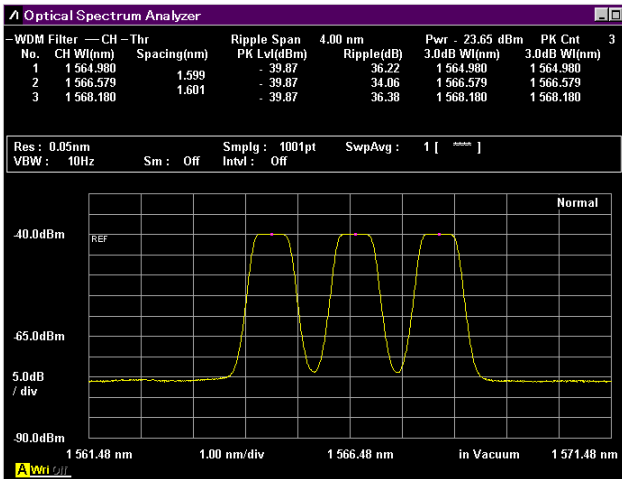
Optical Spectrum Analyzer

Fast evaluation of optical devices requires short inspection times using high-efficiency measuring equipment. To solve this problem, the MS9740A adds a new WDM Filter analysis function supporting group display for optical bandpass filters, such as WSS and WDM Filter devices.

Optical Bandpass Filter Evaluation

- Transmittance Evaluation
- Insertion Loss Evaluation

Transmittance Evaluation



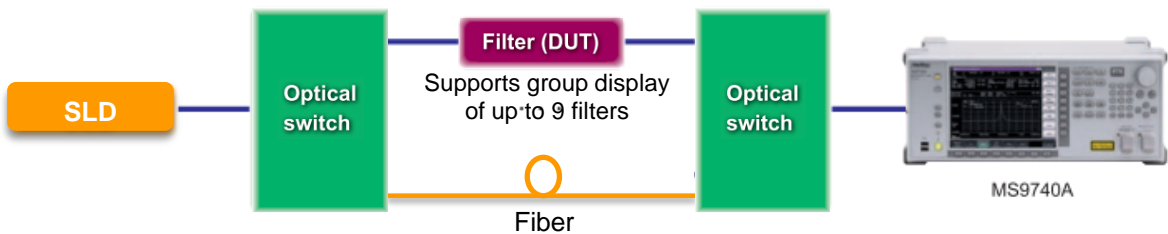
Batch Measurement of Optical Bandpass Filter Transmittance

The WDM Filter analysis function supports efficient evaluation of optical bandpass filter transmittance characteristics.

WDM Filter Function Measurements

- Signal Level
- Peak Signal No.
- Signal Wavelength
- Spacing (Wavelength)
- Pass Band
- Ripple

Insertion Loss Evaluation

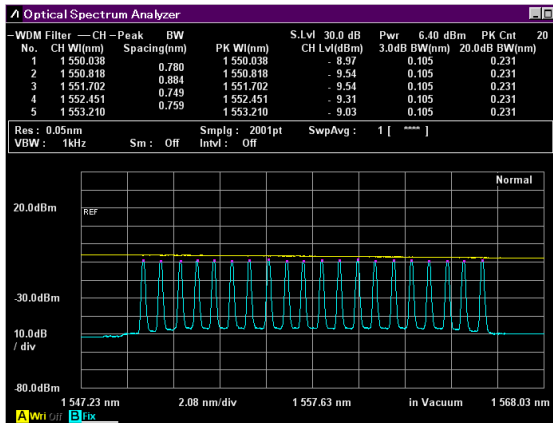


Filter Insertion Loss Analysis using Trace Mode

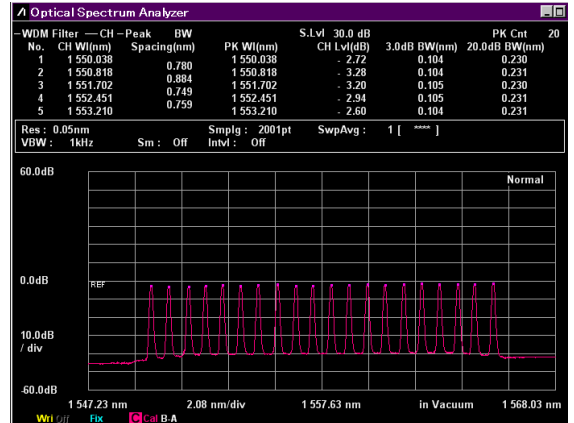
Filters, such as optical bandpass filters, are evaluated by finding the difference in the measured results when the filter (DUT) is inserted and not inserted (Insertion Loss measurement).

The MS9740A Trace Mode function supports measurement using optical switches to measure DUT insertion loss by Waveform Difference Comparison, saving the results in one file and displaying up to 10 waveforms simultaneously on one screen.

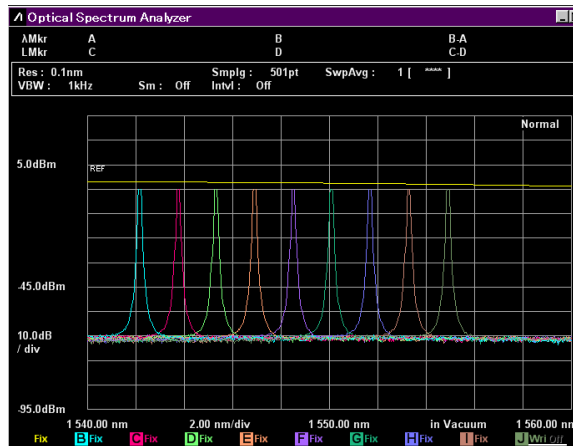
WDM Filter Insertion Loss Evaluation Waveforms



Waveform of wideband light source before and after insertion to optical bandpass filter



Filter Analysis by Waveform Difference Comparison



Multi-waveform trace

Ordering Information

Specify the model, name and quantity when ordering. (The order name and actual equipment name may differ sometimes.)

Model	Name
Main Frame	
MS9740A	Optical Spectrum Analyzer
Options	
MS9740A-001	GPIO Interface
MS9740A-002	Light Source For Wavelength Calibration
MS9740A-009	Multimode Fiber Input (50/62.5 μm)

Model	Name
Optical Connector Options	
MS9740A-037	FC Connector
MS9740A-038	ST Connector
MS9740A-039	DIN 47256 Connector
MS9740A-040	SC Connector