VIAVI

WDM-Expert Software for Viavi OSAs

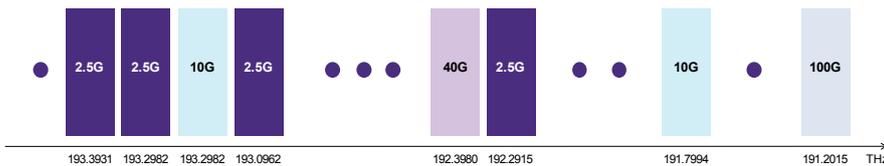## Added flexibility, new levels of functionality

WDM-Expert software is an analysis package for use with data captured from the Viavi Solutions® OSA-110/500 optical spectrum analyzers (OSA) for T-BERD®/MTS-6000A and −8000 platforms.

Network equipment manufacturers and service providers working with DWDM fiber networks are looking for easy and fast ways to measure power, wavelength, and optical signal-to-noise ratio (OSNR) to assess the signal quality of each channel and predict bit error rates (BER). A Viavi OSA is the answer.

DWDM Networks Bring Flexibility

DWDM networks typically support up to 96 channels, with each channel spaced at 50 GHz as defined by industry standard ITU G.694. Any 2.5/10/40/100 G optical data can be carried in any of the 50 GHz channels, enabling carriers to mix and match data rates and channels as needed on their networks.
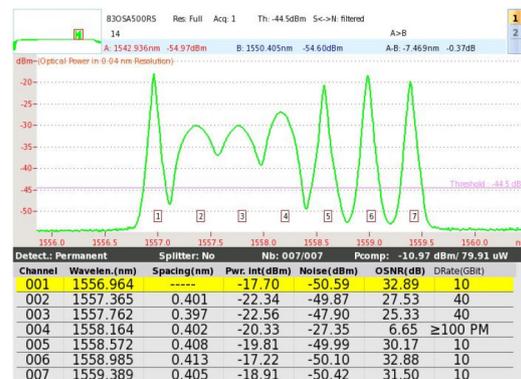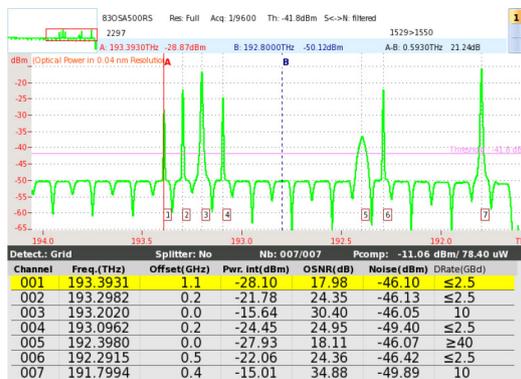

Key Benefits

- Automatic identification of data rates for faster channel assessment
- Pol-Mux signal identification and OSNR measurement for 100 G and higher-speed coherent signals
- Fast, full WDM spectrum scans
- Increased flexibility with customized results displays
- Increased productivity from user-defined templates for results tables of content

WDM-Expert Indicates Data Rates Including Pol-Mux Modulation Information of Each WDM Channel

In addition to traditional information about the wavelength, power, and noise for each channel, WDM-Expert software indicates the transmitted data rate per channel as well as the presence of 40/100 G or higher speed polarization-multiplexed (Pol-Mux) signals. This real-time functionality has no impact on the measurement times of Viavi OSA scans.

WDM-Expert software saves time:

- OSA users can now correlate OSNR results to data rates instantaneously without the need to look at a pile of network plans
- OSA users can now quickly identify Pol-Mux signals of coherent systems

WDM-Expert Increases Flexibility and Productivity with User-Defined Results Display

Traditional OSAs only display a limited amount of information in the results page. This is often inadequate for experts that want more precise spectrum-analysis data. WDM-Expert software lets users fully customize the table of results by adding, editing, or removing parameters.

WDM-Expert software provides considerable flexibility and increases productivity, letting users:

- Pick from a list of more than 50 result display parameters to match their specific applications
- Create and save up to 4 customized tables of results templates in addition to 5 pre-set tables

Ordering Information

The WDM-Expert software option #2293/94.01 can be added to an OSA-110M/110R or OSA-500/-500M/-501M.

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