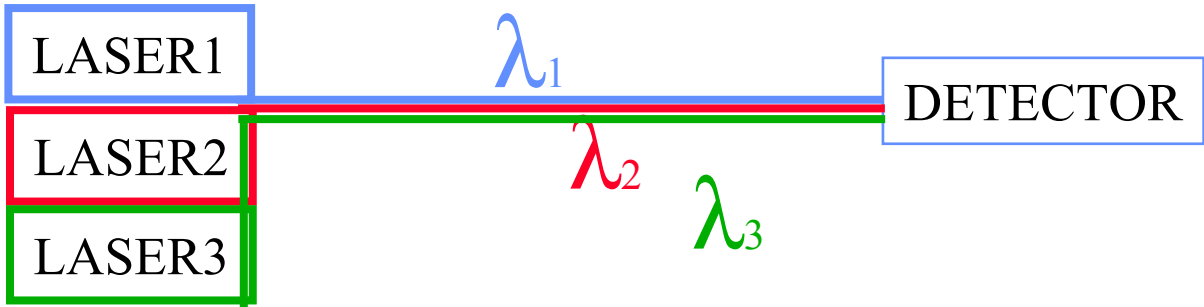
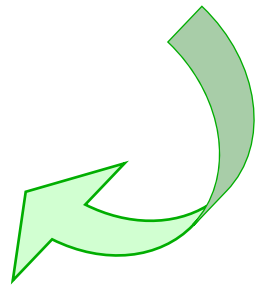


PROLITE-60

WHY PROLITE-60



Optical Spectrum Analyser

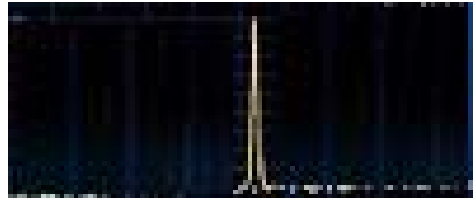
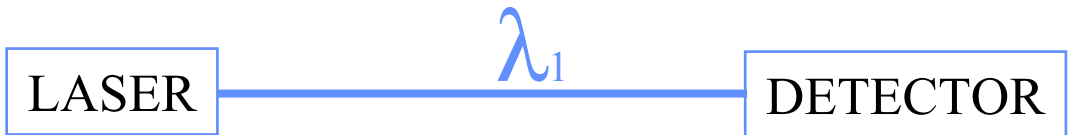
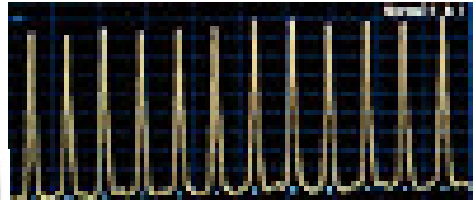
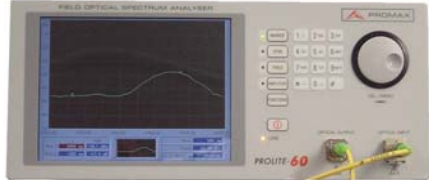
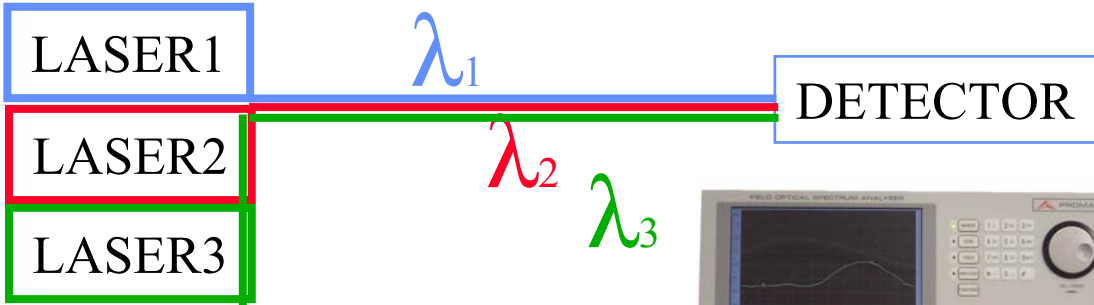


S-C-H-O-P-T-I-C-A-L

PROLITE-60

WHY PROLITE-60

FIBER OPTICS





MEASUREMENTS ON WDM SYSTEMS

- Many signals, many levels
- Measurements at different wavelengths are required
- Different carrier measurements
- Regular Optical power meters are not sufficient
- Need to discern one carrier from another
- More complex and expensive instrumentation is required

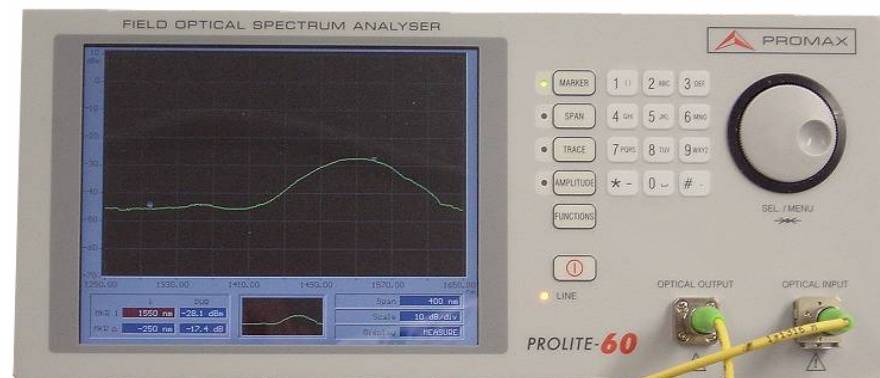


PROMAX

PROLITE-60

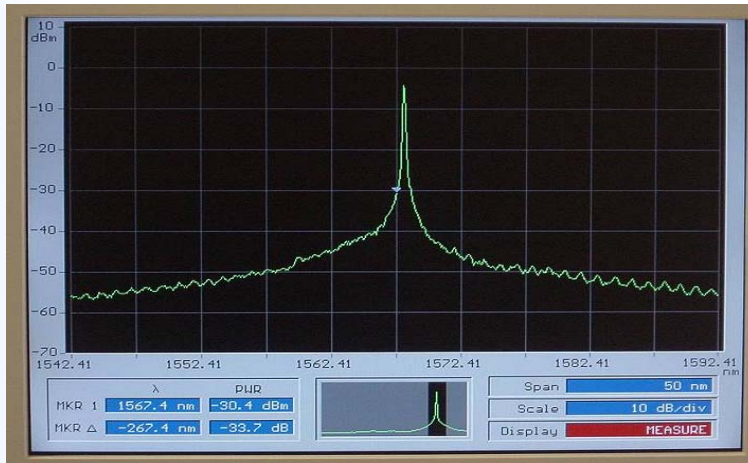
FIELD OPTICAL SPECTRUM ANALYSER

- **Field** is the KEY word
- Battery operated
- NiMh internal batteries
- Span from 10 to 400 nm
- 0.15 nm resolution
- Range from 1250 to 1650 nm
- Input range from -60 dBm to 20 dBm



FIBER-OPTICS

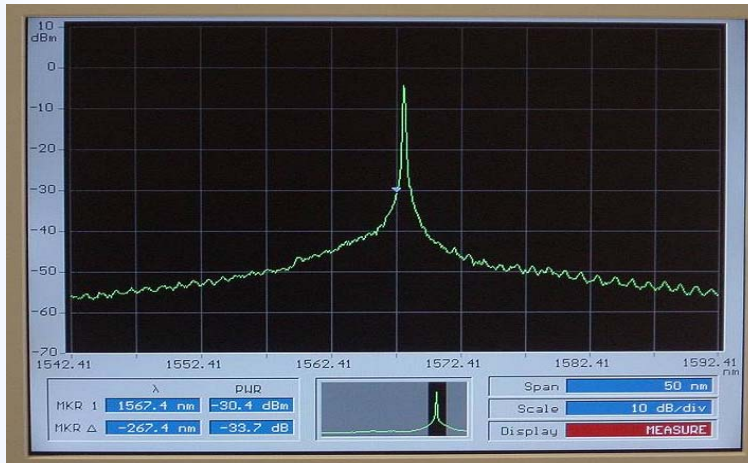
GENERAL SPECS



| | λ | PIR |
|--------------|-----------|-----------|
| MKR 1 | 1567.4 nm | -30.4 dBm |
| MKR Δ | -267.4 nm | -33.7 dB |

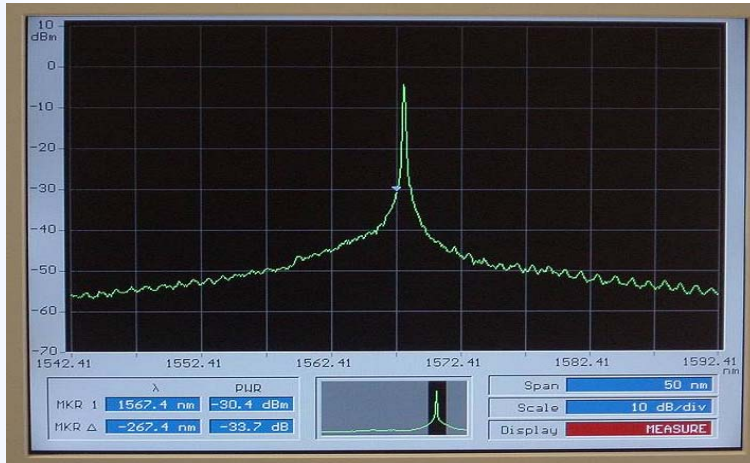
- Indication of current measurement
- Indication of Delta measurement
- Able to make an "optical" C/N measurement

GENERAL SPECS



- Span selection
- Scale selection (10 dB/Div or 2 dB/Div)
- Indication of what is shown on the display

GENERAL SPECS

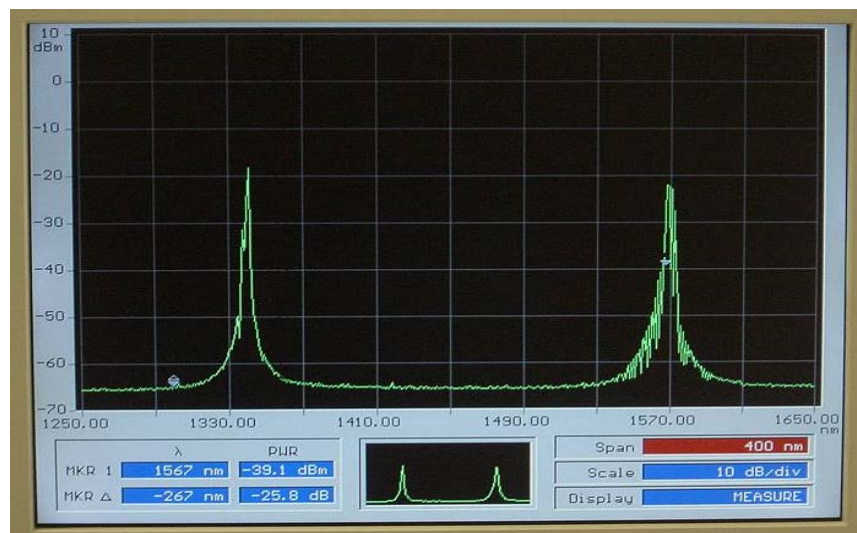


- Graphical indication of complete SPAN
- Indication of selected SPAN



SINGLE MODULATION CARRIERS

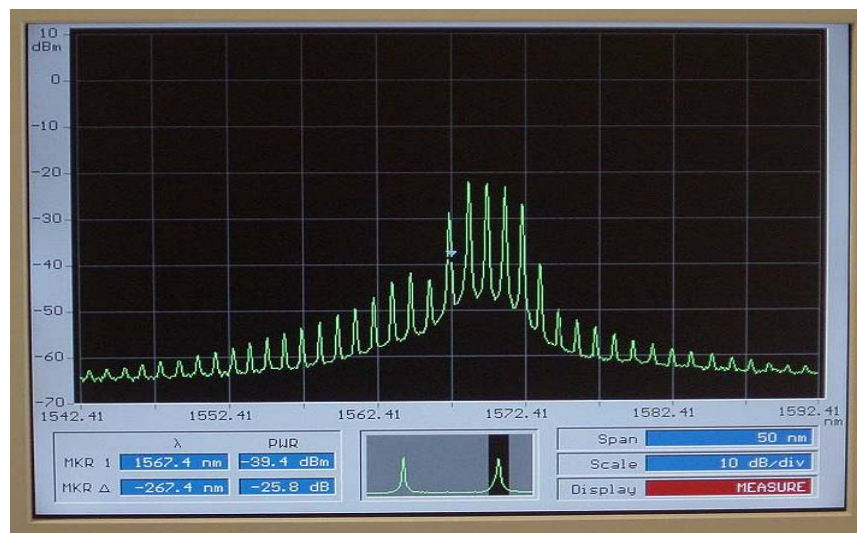
- Able to see performance of the LASER
- Able to analyse performance of the optical network
- Able to perform simultaneous measurements on two carriers





TYPICAL RESPONSE OF A FABRY-PEROT LASER

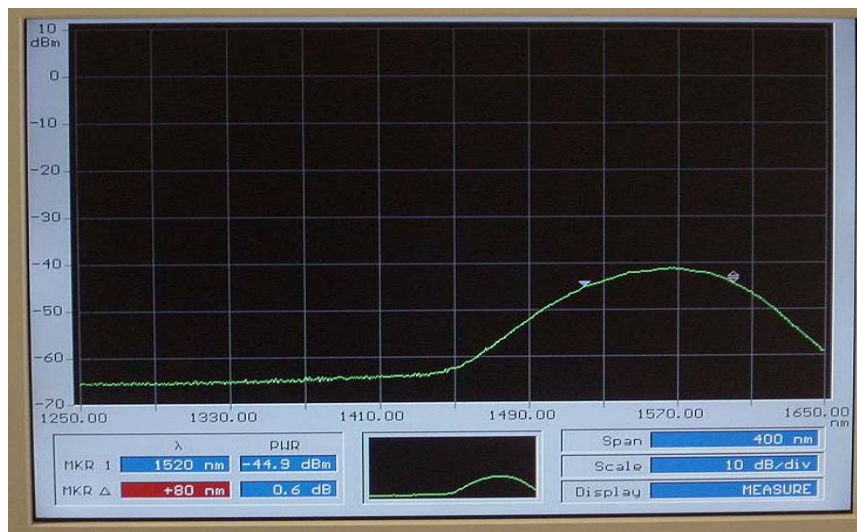
- Zoom into a particular window
- Low quality LASER (used for short distance communications)
- Spectral analysis of performance of a LASER





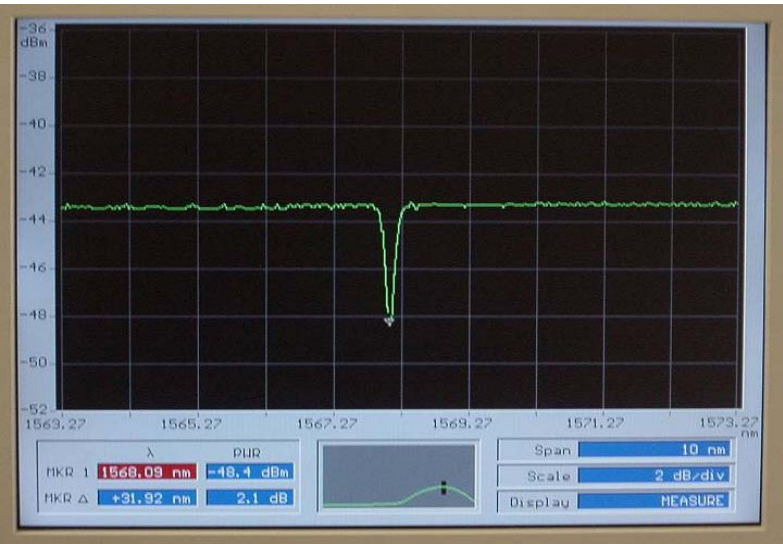
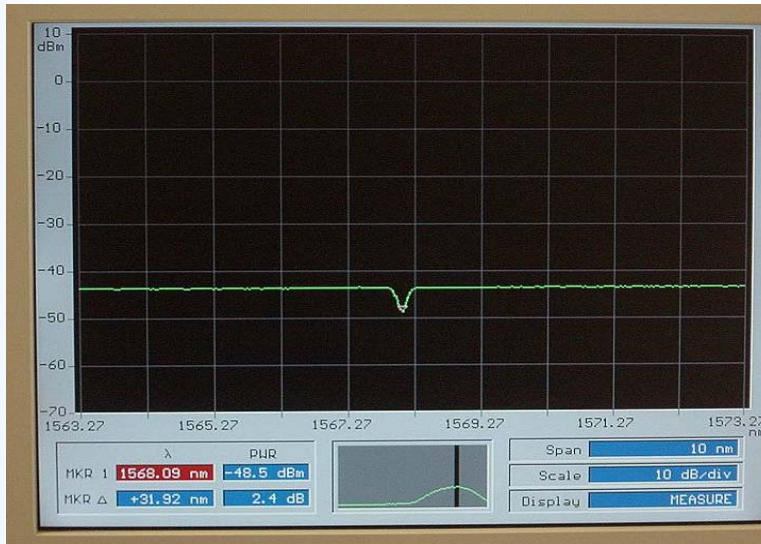
BROADBAND OPTICAL SOURCE OUTPUT (SLED)

- Many different applications
 - Network response to broadband optical signals
 - Filter responses
 - Other optical devices responses
- Can be used for manufacturing as well as installation

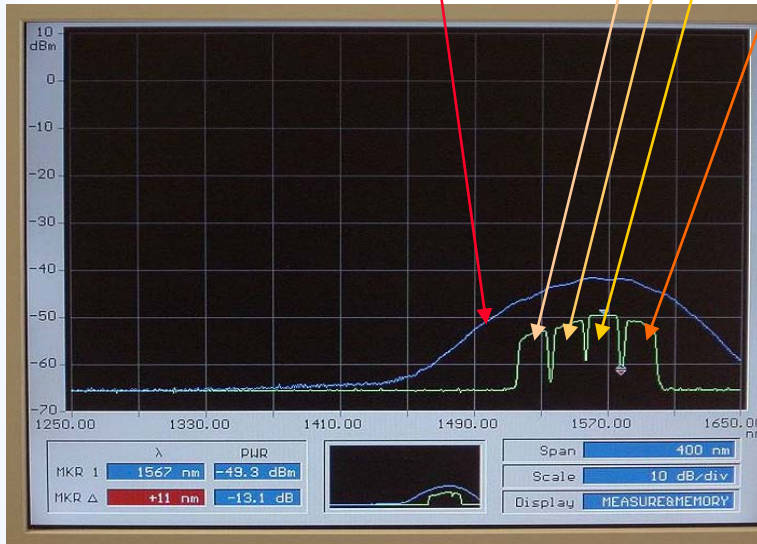
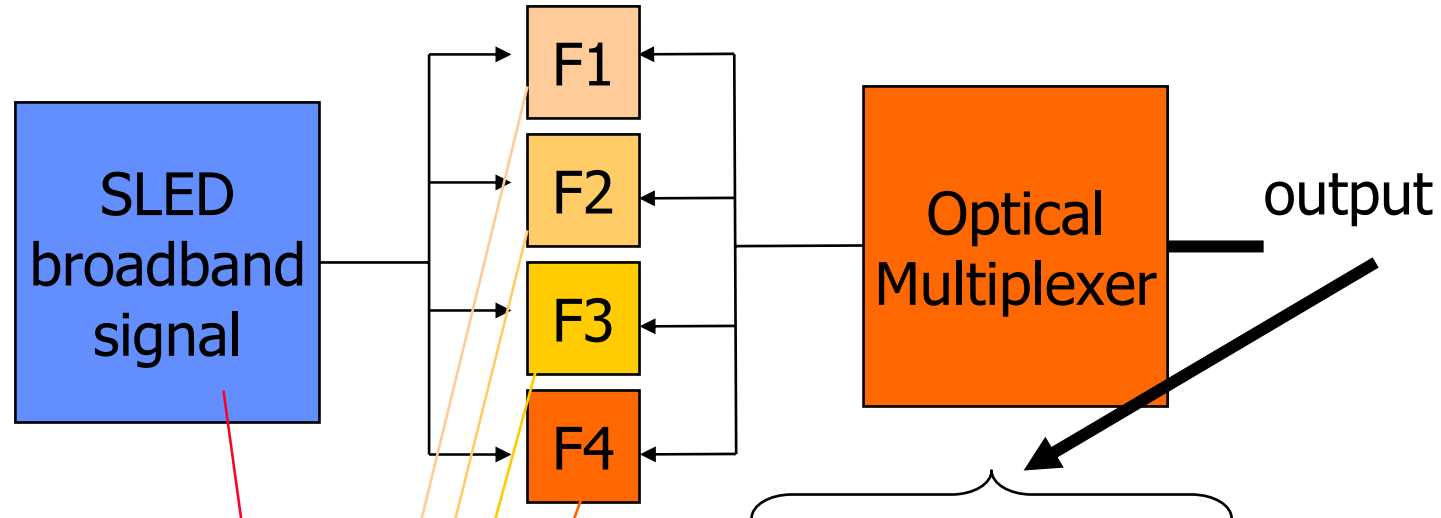


APPLICATIONS: BRAGG FILTER RESPONSE

- As you would do with an RF Spectrum analyser with tracking generator
- Apply a known signal to the input of the filter
- Get resulting signal at output of the LASER
- Procedure similar for other Optical Devices



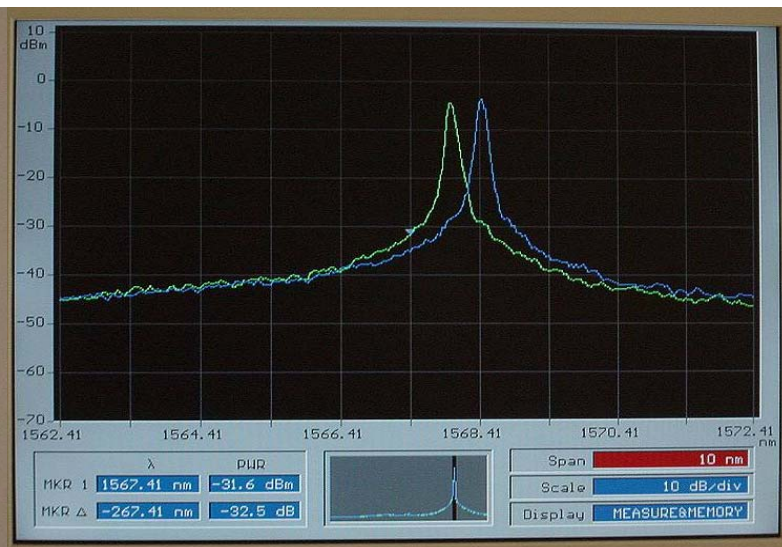
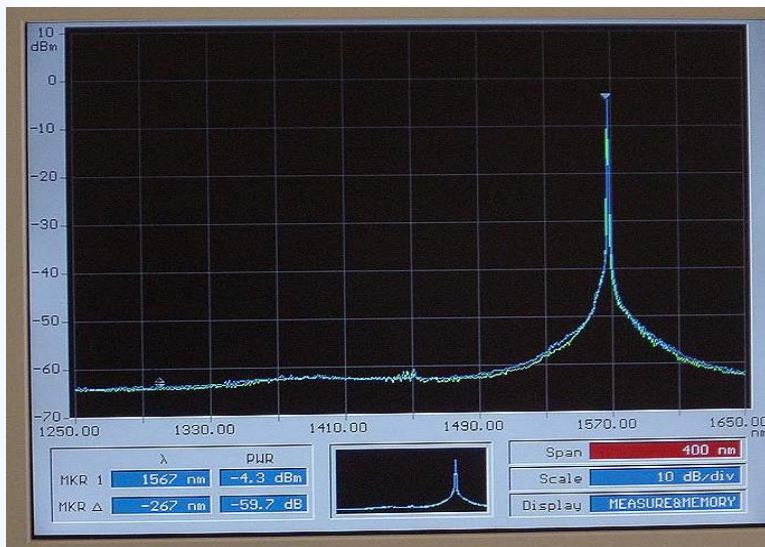
APPLICATIONS: C-WDM FILTER





APPLICATIONS: C-WDM DFB LASERS

- DFB LASERS (Distributed FeedBack LASERS) are "narrowband" signals
- Unable to discern with normal Optical Power meters
- Transmit different information
- Necessary to test/confirm that both signals are present





PROLITE-60

WHY PROLITE-60

- Existing O.S.A. Are heavy (weight and price)
- PROLITE-60 is suitable for installation and design applications
- Only one in the WORLD to be portable and battery operated
- Unique price margin
- Light and compact
- Suitable for CWDM and DWDM

Why spend more if the PROLITE-60 has it all