

## Setting Pass/Fail Thresholds

1 Press.

2 Press.

3 Select the wavelength for which you want to set thresholds.

4 Select the desired thresholds and set their values. Clear the boxes of the thresholds you no longer want to use.

5 To apply thresholds to one or several other wavelengths, proceed as follows:

5a Press.

5b Select the wavelengths for which you want to use the same thresholds.

5c Press.

6 Press **Apply** to confirm the changes, then **OK** to return to the main window.

## Viewing Results

The application shows the results of the A→B and B→A traces according to the thresholds defined in the application. You can view the corresponding graphs and tables of events, as well as obtain more information about the status of the bidirectional measurement and/or A→B and B→A traces.

### Graph view

Event no. 2

No.	Pos./Len. (km)	Att. (dB/km)	Avg. Loss (dB)	Cumul. (dB)	A→B Loss (dB)	B→A Loss (dB)	Max. Refl. (dB)
2	4.5485	0.414	1.328	0.483	0.345		
3	9.3964	2.233	4.541	2.095	2.371	-61.6	

To switch from one wavelength to another (available only when A→B and B→A traces contain multiple wavelengths).

### Summary table

Span length (corresponds to the greatest span length value among all bidirectional measurements, at all wavelengths)

Span loss of the bidirectional measurement

Wavelength (nm)	Direction	Status	Span Loss (dB)
1550	Bidirectional	Pass	5.007
1550	A→B	Pass	
1550	B→A	Pass	
1625	Bidirectional	Fail	7.316
1625	A→B	Fail	
1625	B→A	Fail	

No.	Pos./Len. (km)	Att. (dB/km)	Avg. Loss (dB)	Cumul. (dB)	A→B Loss (dB)	B→A Loss (dB)	Max. Refl. (dB)
1	0.0000	0.000	0.000	0.000			-44.7
2	4.5496	0.209	0.950	0.888	1.011		
3	4.8478	0.211	1.023	2.827	1.029	1.017	
4	9.3974	3.996	6.823	3.841	4.152	-62.1	

## Creating Bidirectional Measurement Files

You can open unidirectional trace files to combine them into a bidirectional measurement file. It is possible to use both single-wavelength and multiwavelength traces. However, once a multiwavelength trace file is recalled, it is converted to single-wavelength trace files. Bidirectional measurement files will automatically be created for each of the wavelengths.

1 Acquire two unidirectional traces in opposite directions (with the OTDR application) and save them.

2 Press.

3 Press.

4 Press.

5 Press.

6 Press.

**Create Bidirectional Measurement**

Generates a bidirectional measurement by using unidirectional OTDR files taken from both directions.

A→B: [Data\My Documents\OTDR\User Guide\AB 1550\_1625.trc] Browse... **7** Press.

B→A: [Data\My Documents\OTDR\User Guide\BA 1550\_1625.trc] Browse...

**8** Select the desired unidirectional file (ensure that it is highlighted).

**10** Repeat steps 7 to 9 to select the second unidirectional file.

**11** Press.

**9** Press Open to confirm.

## Modifying the Alignment of Unidirectional Traces

**1** Press.

**2** Select A→B or B→A.

**3** Use the arrows to move marker A along the trace to define span event location.

**4** Press to set the span start or span end marker on the desired event.

No.	Pos./Len. (km)	Att. (dB/km)	Avg. Loss (dB)	Cumul. (dB)	A→B Loss (dB)	B→A Loss (dB)	Max. Refl. (dB)
1	0.0000		0.414	1.328	0.483	0.345	
2	4.5497	0.202	0.980	2.308	0.978	0.962	
3	9.3976		2.233	4.541	2.095	2.371	-61.6
4	11.5324	0.218	0.466	5.007	0.472	0.460	

**Note:** The B→A trace is presented in the opposite direction of the A→B trace, and so are the events.

## Saving Bidirectional Files

**1** Press.

**2** Press.

No.	Pos./Len. (km)	Att. (dB/km)	Avg. Loss (dB)	Cumul. (dB)	A→B Loss (dB)	B→A Loss (dB)	Max. Refl. (dB)
1	0.0000		0.414	1.328	0.483	0.345	
2	4.5485	0.202	0.980	2.308	0.978	0.962	
3	9.3964		2.233	4.541	2.095	2.371	-61.6
4	11.5318	0.218	0.466	5.007	0.472	0.460	

**3** Select drive and folder. (Default: \Data\My Documents\OTDR)

**4** Enter file name.

**5** Press Save.

**Note:** The application saves the bidirectional file only. Consequently, the changes you make to the unidirectional traces will not be saved to the original files. If you want to save your changes to the unidirectional files, see the Exporting Unidirectional Traces from Bidirectional Files section of this guide.

## Exporting Unidirectional Traces from Bidirectional Files

You can export all data from the A→B and B→A traces that were used to generate a specific bidirectional measurement. The files that you export are in native .trc format that can be opened with the OTDR application.

**1** Create a bidirectional measurement.  
OR  
Open an already existing bidirectional file.

**2** Press.

**3** Select Export A→B or Export B→A.

**4** Select drive and folder. (Default: \Data\My Documents\OTDR)

**5** Enter file name.

**6** Press Save.