

Job			
Job ID : DEMO-001	Customer : Example Customer Inc.	File : demo_850.sor	File : demo_1300.sor
Contractor : Example Fibre Ltd.	Operator : Jane Doe	Date : 2026-01-15 10:30:00	Date : 2026-01-15 10:30:00

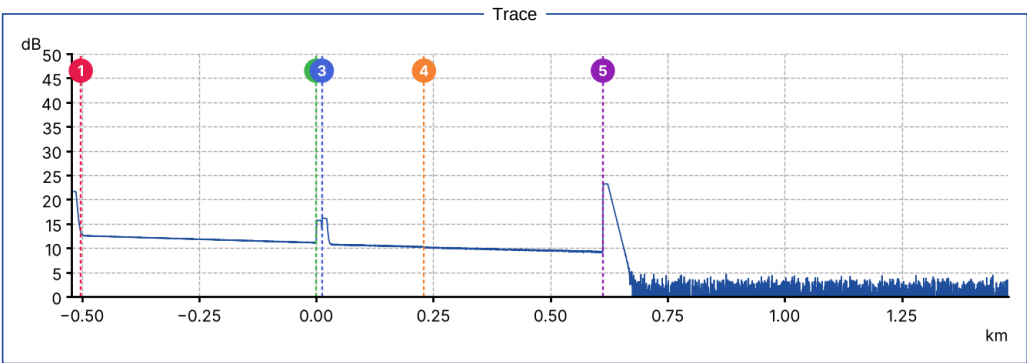
Comment
Synthetic demo traces generated by tools/make_demo_sor.py

Cable			
Location	Cable	Fiber	Color
Origin Rack A1 / Panel 1	DEMO-OM3-12F	1	blue
End Rack B2 / Panel 3	DEMO-OM3-12F	1	blue

850 nm demo_850.sor

Overview			
Total Fiber Length (km) : 0.612	Average Loss (dB/km) : 3.001 *		
Total Fiber Loss (dB) : 3.405 *	ORL (dB) : > -16.986 *		

Configuration			
Wavelength (nm) : 850	Backscatter coeff (dB) : -62.000 (analysis)		
Pulse (ns) : 50	Refractive Index : 1.465		
Range (m) : 2000	Sampling Resolution (m) : 0.256		
Average Time (s) : 10	Loss / Refl. threshold (dB) : Auto / Auto		
Launch offset (m) : 523.0	End of fiber threshold (dB) : Auto		

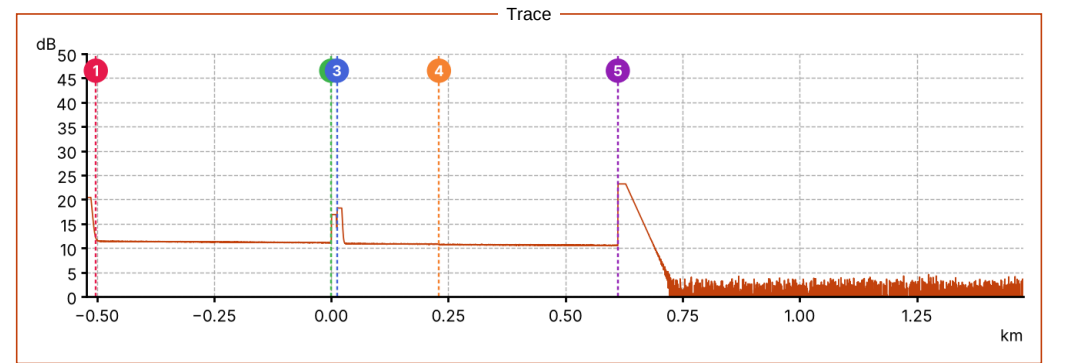


Event							
#	Event Type	Distance (km)	Segment (km)	Loss (dB)	Total Loss (dB)	Atten. (dB/km)	Refl. (dB)
1	Reflect (S)	-0.502	0.000	0.000	--	--	--
2	Reflect (F)	0.000	0.502	0.000	1.536 *	2.937	-36.353
3	Reflect (F) +	0.012	0.012	0.306	1.536 *	0.000	-36.149
4	NonReflect (F)	0.230	0.218	0.113	2.375 *	2.444	--
5	Saturated (E)	0.612	0.382	0.000	3.405 *	2.404	> -16.986

1300 nm demo_1300.sor

Overview			
Total Fiber Length (km) : 0.612	Average Loss (dB/km) : 0.774 *		
Total Fiber Loss (dB) : 0.878 *	ORL (dB) : > -26.697 *		

Configuration			
Wavelength (nm) : 1300	Backscatter coeff (dB) : -69.000 (analysis)		
Pulse (ns) : 50	Refractive Index : 1.465		
Range (m) : 2000	Sampling Resolution (m) : 0.256		
Average Time (s) : 10	Loss / Refl. threshold (dB) : Auto / Auto		
Launch offset (m) : 523.0	End of fiber threshold (dB) : Auto		



Event							
#	Event Type	Distance (km)	Segment (km)	Loss (dB)	Total Loss (dB)	Atten. (dB/km)	Refl. (dB)
1	Reflect (S)	-0.502	0.000	0.000	--	--	--
2	Reflect (F)	0.000	0.502	0.000	0.332 *	0.634	-40.714
3	Reflect (F) +	0.012	0.012	0.174	0.332 *	0.000	-38.237
4	NonReflect (F)	0.230	0.218	0.087	0.616 *	0.507	--
5	Saturated (E)	0.612	0.382	0.000	0.878 *	0.458	> -26.697

Event codes: S = start, F = found, E = end, A = added, M = moved. Distances are relative to the launch-offset zero point stored in the measurement file.

* Not stored in the file, calculated: Total Loss = sum of attenuation × section length + event losses (from the OTDR port); ORL = end-event reflectance; Average Loss = total loss / fibre length from the OTDR port.

Events re-analysed from the trace by sor2report (--reanalyze), not the instrument's event table: loss and attenuation by least-squares fit, reflectance = $B_c + 10 \cdot \log_{10}((10^{(H/5)} - 1) \cdot \text{pulse})$ with $B_c = -62 \text{ dB @ } 850 \text{ nm}$, $-69 \text{ dB @ } 1300 \text{ nm}$. "+" = event not in the instrument's table; ">" = saturated peak (reflectance is at least this value).

Job		
Job ID : DEMO-001	Customer : Example Customer Inc.	File : demo_1310.sor
Contractor : Example Fibre Ltd.	Operator : Jane Doe	Date : 2026-01-15 10:30:00

Comment
Synthetic demo traces generated by tools/make_demo_sor.py

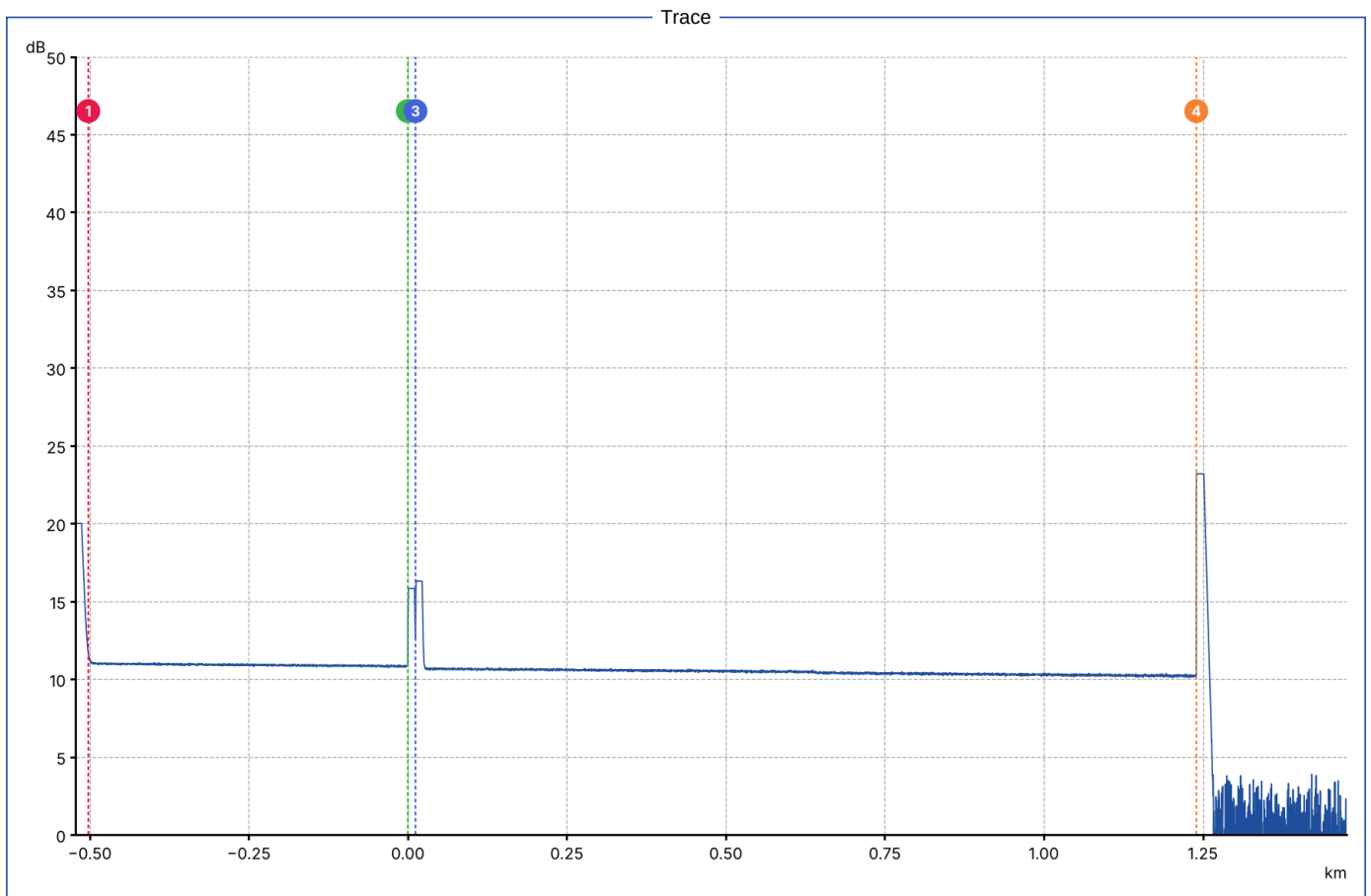
Cable				
	Location	Cable	Fiber	Color
Origin	Rack A1 / Panel 2	DEMO-OS2-24F	7	brown
End	Building C / ODF 1	DEMO-OS2-24F	7	brown

1310 nm

demo_1310.sor

Overview		
Total Fiber Length (km) : 1.240	Average Loss (dB/km) : 0.477 *	
Total Fiber Loss (dB) : 0.841 *	ORL (dB) : > -36.053 *	

Configuration		
Wavelength (nm) : 1310	Backscatter coeff (dB) : -79.000 (analysis)	
Pulse (ns) : 50	Refractive Index : 1.465	
Range (m) : 2000	Sampling Resolution (m) : 0.256	
Average Time (s) : 10	Loss / Refl. threshold (dB) : Auto / Auto	
Launch offset (m) : 523.0	End of fiber threshold (dB) : Auto	



Event							
#	Event Type	Distance (km)	Segment (km)	Loss (dB)	Total Loss (dB)	Atten. (dB/km)	Refl. (dB)
1	Reflect (S)	-0.502	0.000	0.000	--	--	--
2	Reflect (F)	0.000	0.502	0.000	0.195 *	0.372	-52.456
3	Reflect (F) +	0.012	0.012	0.147	0.195 *	0.000	-51.790
4	Saturated (E)	1.240	1.228	0.000	0.841 *	0.407	> -36.053

Event codes: S = start, F = found, E = end, A = added, M = moved. Distances are relative to the launch-offset zero point stored in the measurement file.

* Not stored in the file, calculated: Total Loss = sum of attenuation × section length + event losses (from the OTDR port); ORL = end-event reflectance; Average Loss = total loss / fibre length from the OTDR port.

Events re-analysed from the trace by sor2report (--reanalyze), not the instrument's event table: loss and attenuation by least-squares fit, reflectance = $B_c + 10 \cdot \log_{10}((10^{(H/5)} - 1) \cdot \text{pulse})$ with $B_c = -79$ dB @ 1310 nm. "+" = event not in the instrument's table; ">" = saturated peak (reflectance is at least this value).