

# OTDR Report (1310 nm (9 μm))

## General Information

File name:	49_1310.trc	Customer:	ADNOC
Test date:	14-Feb-24	Company:	PAN ARABIA
Test time:	2:29 PM	Fiber ID:	49
Cable ID:	FAR3 to FAR0 1A (B-A)		
Job ID:	0500831		
Comments:	END TO END TEST		

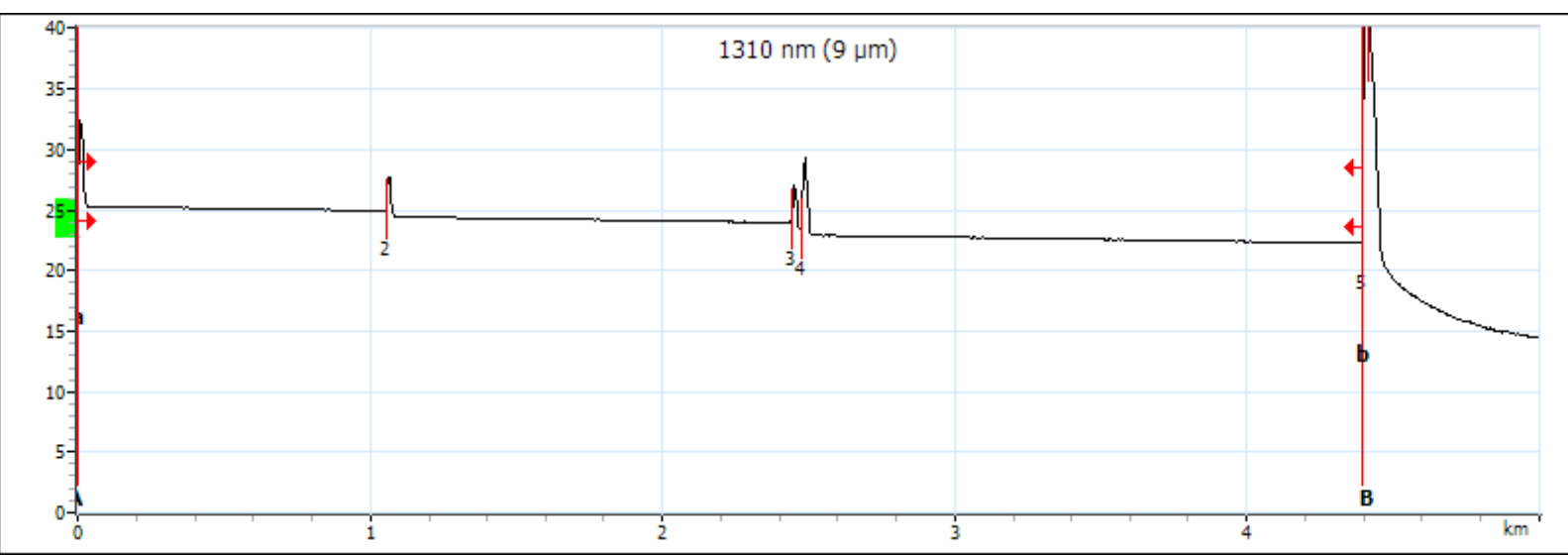
## Locations

	Location A	Location B
Location	FAR3	FAR0
Operator	PANDA	HABEEB
Model	MAX-720C-Q1-EA-EI	
Serial number	1206159	
Calibration date	29-Mar-23 (UTC)	

## Results

Span length:	4.3961 km	Average loss:	0.724 dB/km	Injection level:	25.3 dB
Span loss:	3.182 dB	Average splice loss:	---		
Span ORL:	35.60 dB	Maximum splice loss:	---		

## Graph



## Markers

Marker	Position (km)	Value (dB)	A-B LSA attenuation:	0.853 dB/km	A-B average loss:	0.726 dB/km
a	0.0000	25.467	A-B LSA loss:	3.747 dB	4-point Event Loss:	1.651 dB
A	0.0000	25.467	A-B ORL:	35.02 dB	Maximum reflectance:	-44.7 dB
B	4.3929	22.278				
b	4.3929	22.278				

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## Event Table

Type	No.	Pos./Length (km)	Loss (dB)	Reflectance (dB)	Attenuation (dB/km)	Cumulative (dB)
First Connector	1	0.0000	---	-44.7		0.000
Section		1.0558	0.363		0.344	0.363
Reflective	2	1.0558	0.492	-54.5		0.855
Section		1.3890	0.483		0.348	1.338
Reflective	3	2.4447	0.499	-54.0		1.837
Section		0.0345	0.167		4.845	2.004
Reflective	4	2.4792	0.523	-47.5		2.527
Section		1.9169	0.655		0.342	3.182
Merged Events	5	4.3961	---	> -18.8		3.182

## Macrobend

Position (km)	Delta Loss (dB)

## Pass/Fail Thresholds

	1310 nm (9 μm)

## Test Parameters

	A → B
Wavelength (nm)	1310 nm (9 μm)
Range (km)	5.0000
Pulse (ns)	100
Duration (s)	5

## Test Settings

	A → B	Macrobend Wavelengths	Macrobend Delta Loss (dB)
IOR	1.467700		
Backscatter (dB)	-79.45		
Helix factor (%)	0.00		
Splice loss detection threshold (dB)	0.020		
Reflectance detection threshold (dB)	-72.0		
End-of-fiber detection threshold (dB)	5.000		

# OTDR Report (1550 nm (9 μm))

## General Information

File name:	49_1550.trc	Customer:	ADNOC
Test date:	14-Feb-24	Company:	PAN ARABIA
Test time:	2:29 PM	Fiber ID:	49
Cable ID:	FAR3 to FAR0 1A (B-A)		
Job ID:	0500831		
Comments:	END TO END TEST		

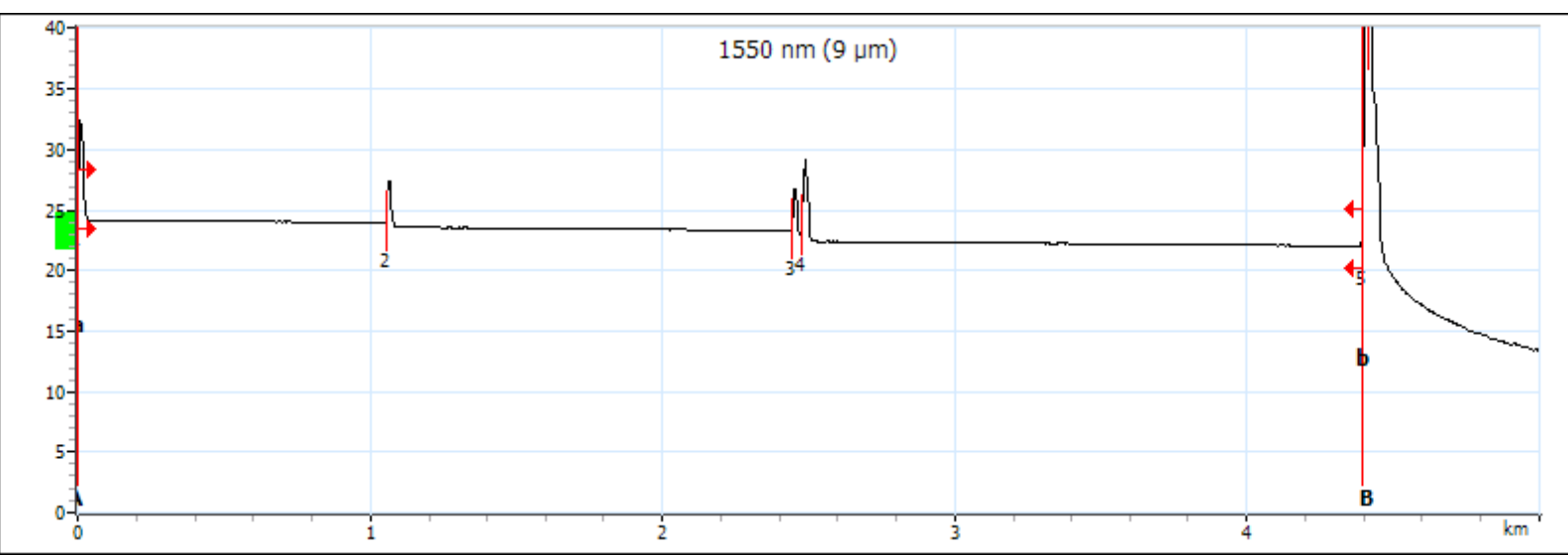
## Locations

	Location A	Location B
Location	FAR3	FAR0
Operator	PANDA	HABEEB
Model	MAX-720C-Q1-EA-EI	
Serial number	1206159	
Calibration date	29-Mar-23 (UTC)	

## Results

Span length:	4.3955 km	Average loss:	0.518 dB/km	Injection level:	24.2 dB
Span loss:	2.275 dB	Average splice loss:	---		
Span ORL:	37.21 dB	Maximum splice loss:	---		

## Graph



## Markers

Marker	Position (km)	Value (dB)	A-B LSA attenuation:	0.642 dB/km	A-B average loss:	0.629 dB/km
a	0.0000	24.780	A-B LSA loss:	2.819 dB	4-point Event Loss:	1.885 dB
A	0.0000	24.780	A-B ORL:	36.46 dB	Maximum reflectance:	-45.0 dB
B	4.3929	22.017				
b	4.3929	22.017				

# OTDR Report (1550 nm (9 μm))

## Event Table

Type	No.	Pos./Length (km)	Loss (dB)	Reflectance (dB)	Attenuation (dB/km)	Cumulative (dB)
First Connector	1	0.0000	---	-45.0		0.000
Section		1.0566	0.196		0.186	0.196
Reflective	2	1.0566	0.379	-55.2		0.575
Section		1.3877	0.288		0.207	0.863
Reflective	3	2.4443	0.515	-55.1		1.378
Section		0.0351	0.144		4.107	1.522
Reflective	4	2.4794	0.360	-48.7		1.881
Section		1.9160	0.394		0.206	2.275
Merged Events	5	4.3955	---	> -20.9		2.275

## Macrobend

Position (km)	Delta Loss (dB)

## Pass/Fail Thresholds

	1550 nm (9 μm)

## Test Parameters

	A → B
Wavelength (nm)	1550 nm (9 μm)
Range (km)	5.0000
Pulse (ns)	100
Duration (s)	5

## Test Settings

	A → B	Macrobend Wavelengths	Macrobend Delta Loss (dB)
IOR	1.468325		
Backscatter (dB)	-81.87		
Helix factor (%)	0.00		
Splice loss detection threshold (dB)	0.020		
Reflectance detection threshold (dB)	-72.0		
End-of-fiber detection threshold (dB)	5.000		