

# OTDR Report (1310 nm (9 μm))

## General Information

|            |                       |           |            |
|------------|-----------------------|-----------|------------|
| File name: | 54_1310.trc           | Customer: | ADNOC      |
| Test date: | 14-Feb-24             | Company:  | PAN ARABIA |
| Test time: | 2:36 PM               | Fiber ID: | 54         |
| Cable ID:  | FAR3 to FAR0 1A (B-A) |           |            |
| Job ID:    | 0500831               |           |            |
| Comments:  | END TO END TEST       |           |            |

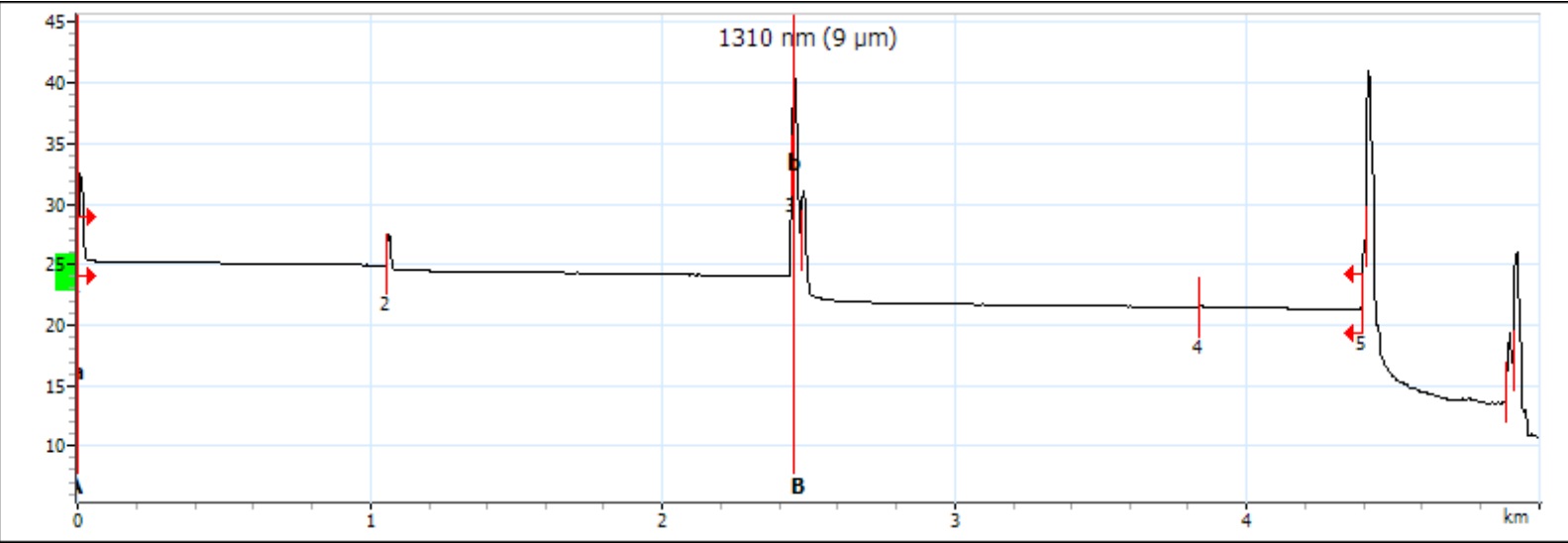
## Locations

|                  | 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: | 4.3922 km | Average loss:        | 0.912 dB/km | Injection level: | 25.3 dB |
| Span loss:   | 4.008 dB  | Average splice loss: | ---         |                  |         |
| Span ORL:    | <24.23 dB | Maximum splice loss: | ---         |                  |         |

## Graph



## Markers

| Marker | Position (km) | Value (dB) | A-B LSA attenuation: | 0.636 dB/km | A-B average loss:    | -7.042 dB/km |
|--------|---------------|------------|----------------------|-------------|----------------------|--------------|
| a      | 0.0000        | 25.436     | A-B LSA loss:        | 1.559 dB    | 4-point Event Loss:  | -18.115 dB   |
| A      | 0.0000        | 25.436     | A-B ORL:             | <29.30 dB   | Maximum reflectance: | > -24.6 dB   |
| B      | 2.4505        | 42.692     |                      |             |                      |              |
| b      | 2.4505        | 42.692     |                      |             |                      |              |

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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           | ---       | -44.6            |                     | 0.000           |
| Section                    |     | 1.0564           | 0.366     |                  | 0.347               | 0.366           |
| Reflective                 | 2   | 1.0564           | 0.413     | -55.1            |                     | 0.779           |
| Section                    |     | 1.3877           | 0.481     |                  | 0.347               | 1.260           |
| Merged Events              | 3   | 2.4441           | 2.088     | > -21.8          |                     | 3.348           |
| Section                    |     | 1.3922           | 0.510     |                  | 0.366               | 3.858           |
| Reflective (Possible Echo) | 4   | 3.8363           | -0.034    | -70.9            |                     | 3.824           |
| Section                    |     | 0.5560           | 0.184     |                  | 0.331               | 4.008           |
| Merged Events              | 5   | 4.3922           | ---       | > -19.6          |                     | 4.008           |
| Section                    |     | 0.4972           | ---       |                  | ---                 | ---             |
| Merged Events              |     | 4.8895           | ---       | -34.0            |                     | ---             |

## Macroband

| 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    | Macroband Wavelengths | Macroband 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: | 54_1550.trc           | Customer: | ADNOC      |
| Test date: | 14-Feb-24             | Company:  | PAN ARABIA |
| Test time: | 2:36 PM               | Fiber ID: | 54         |
| Cable ID:  | FAR3 to FAR0 1A (B-A) |           |            |
| Job ID:    | 0500831               |           |            |
| Comments:  | END TO END TEST       |           |            |

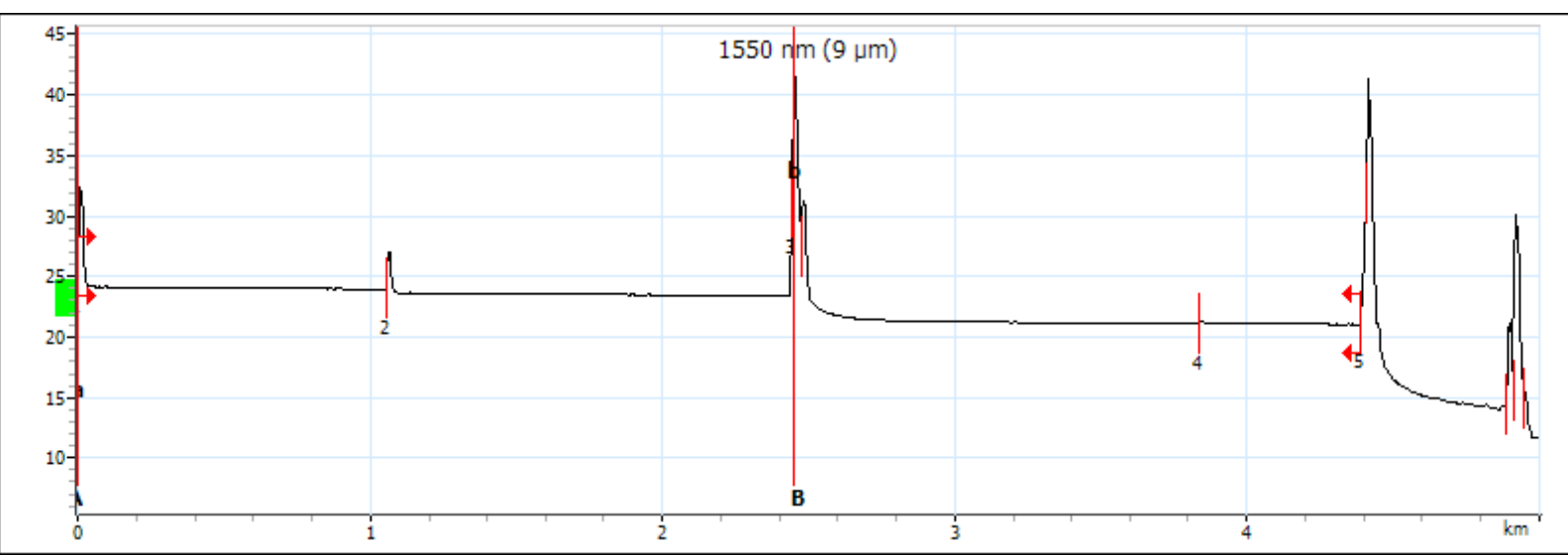
## Locations

|                  | 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: | 4.3916 km | Average loss:        | 0.711 dB/km | Injection level: | 24.1 dB |
| Span loss:   | 3.122 dB  | Average splice loss: | ---         |                  |         |
| Span ORL:    | <23.74 dB | Maximum splice loss: | ---         |                  |         |

## Graph



## Markers

| Marker | Position (km) | Value (dB) | A-B LSA attenuation: | 0.426 dB/km | A-B average loss:    | -7.420 dB/km |
|--------|---------------|------------|----------------------|-------------|----------------------|--------------|
| a      | 0.0000        | 24.793     | A-B LSA loss:        | 1.043 dB    | 4-point Event Loss:  | -18.673 dB   |
| A      | 0.0000        | 24.793     | A-B ORL:             | <28.45 dB   | Maximum reflectance: | > -24.1 dB   |
| B      | 2.4505        | 42.976     |                      |             |                      |              |
| b      | 2.4505        | 42.976     |                      |             |                      |              |

# 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           | ---       | -44.9            |                     | 0.000           |
| Section                    |     | 1.0566           | 0.200     |                  | 0.189               | 0.200           |
| Reflective                 | 2   | 1.0566           | 0.292     | -56.0            |                     | 0.492           |
| Section                    |     | 1.3871           | 0.284     |                  | 0.205               | 0.776           |
| Merged Events              | 3   | 2.4437           | 1.979     | > -22.4          |                     | 2.754           |
| Section                    |     | 1.3922           | 0.297     |                  | 0.213               | 3.051           |
| Reflective (Possible Echo) | 4   | 3.8359           | -0.034    | -70.6            |                     | 3.017           |
| Section                    |     | 0.5557           | 0.105     |                  | 0.189               | 3.122           |
| Merged Events              | 5   | 4.3916           | ---       | > -20.8          |                     | 3.122           |
| Section                    |     | 0.4977           | ---       |                  | ---                 | ---             |
| Merged Events              |     | 4.8893           | ---       | -28.9            |                     | ---             |

## Macroband

| 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    | Macroband Wavelengths | Macroband 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    |                       |                           |