PIM Master™ – MW82119B
Passive Intermodulation (PIM) Analyzer with Site Master™ Cable & Antenna Analyzer Option

More Application, Information, and Pricing available at:

TestWorld

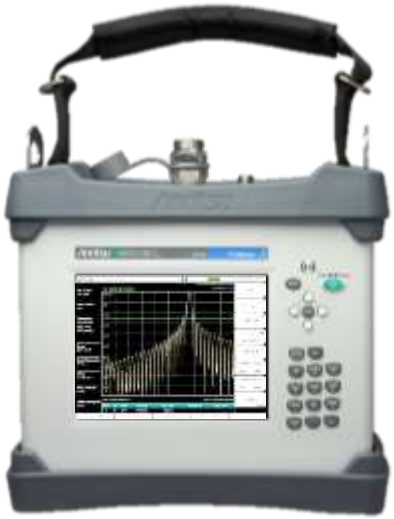
250 Technology Way
Rocklin, CA 95765

sales@testworld.com
1-855-200-TEST (8378)

Click to go www.TestWorld.com

Anritsu envision : ensure

MW82119B – New 3rd Generation PIM Master™



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NEW

MW82119B PIM Master™
with Option 331

MW82119A
PIM Master™

S331E
Site Master™

Integrated Test Solution

- One instrument certifies both PIM and Sweep performance
- Fewer transit cases to carry to the site
- Fewer instruments to hoist to the top of tower
- Both test capabilities available when you need them

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MW82119B – Features

Site Master test port: Type-N (Option 331)

PIM Analyzer test port: 7-16 DIN

- Designed with separate test ports to maximize sweep test performance
  - Highest accuracy
  - Widest sweep bandwidth

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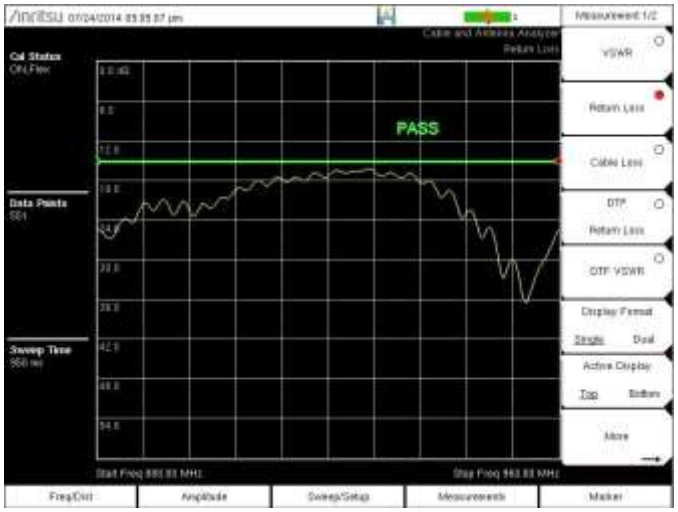
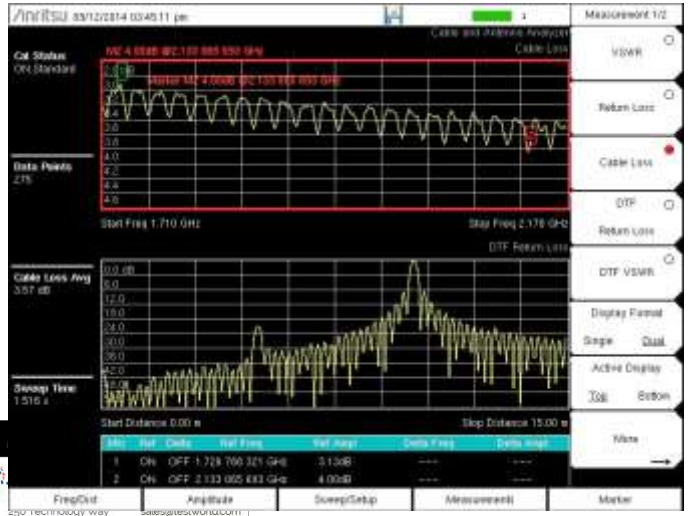
Site Master™ Cable & Antenna Analyzer (Option 331)





Measurements

- Return Loss, VSWR,
- Cable Loss
- Distance-to-Fault (DTF)
- 1-port Phase
- Smith Chart

Performance expected from a Site Master™

- 2 MHz to 3 GHz
- >42 dB directivity
- -4 dBm output power
- Interference immunity

Features expected from a Site Master™

- Dual screen display
- Quick-name matrix
- Flex Cal

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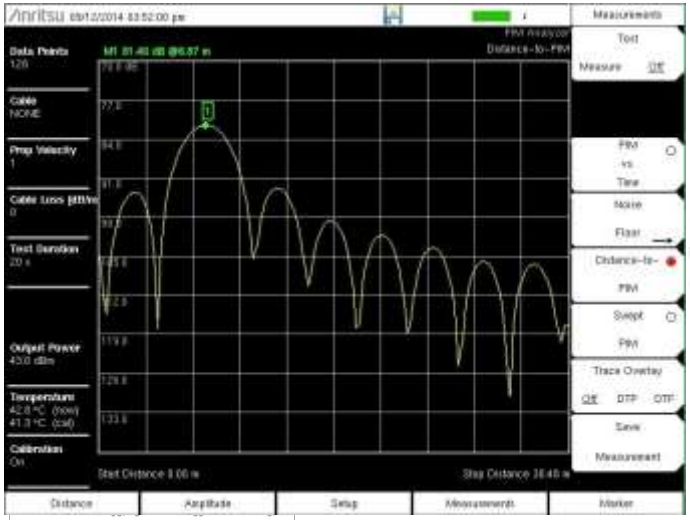
PIM Master™ Passive Intermodulation (PIM) Analyzer



Measurements

- PIM vs. Time
- Swept PIM
- Distance-to-PIM (DTP)
- Noise Floor

Frequency Options

- MW82119B-0700 – LTE 700 MHz (Upper & Lower)
- MW82119B-**0702** – APT 700 MHz NEW
- MW82119B-0800 – LTE 800 MHz
- MW82119B-0850 – Cellular 850 MHz
- MW82119B-0900 – E-GSM 900 MHz
- MW82119B-0180 – DCS 1800 MHz
- MW82119B-**0194** – PCS/AWS 1900/2100 MHz NEW
- MW82119B-0210 – UMTS 2100 MHz
- MW82119B-0260 – LTE 2600 MHz

Test power - 20 dBm (0.1 W) to 46 dBm (40 W) NEW

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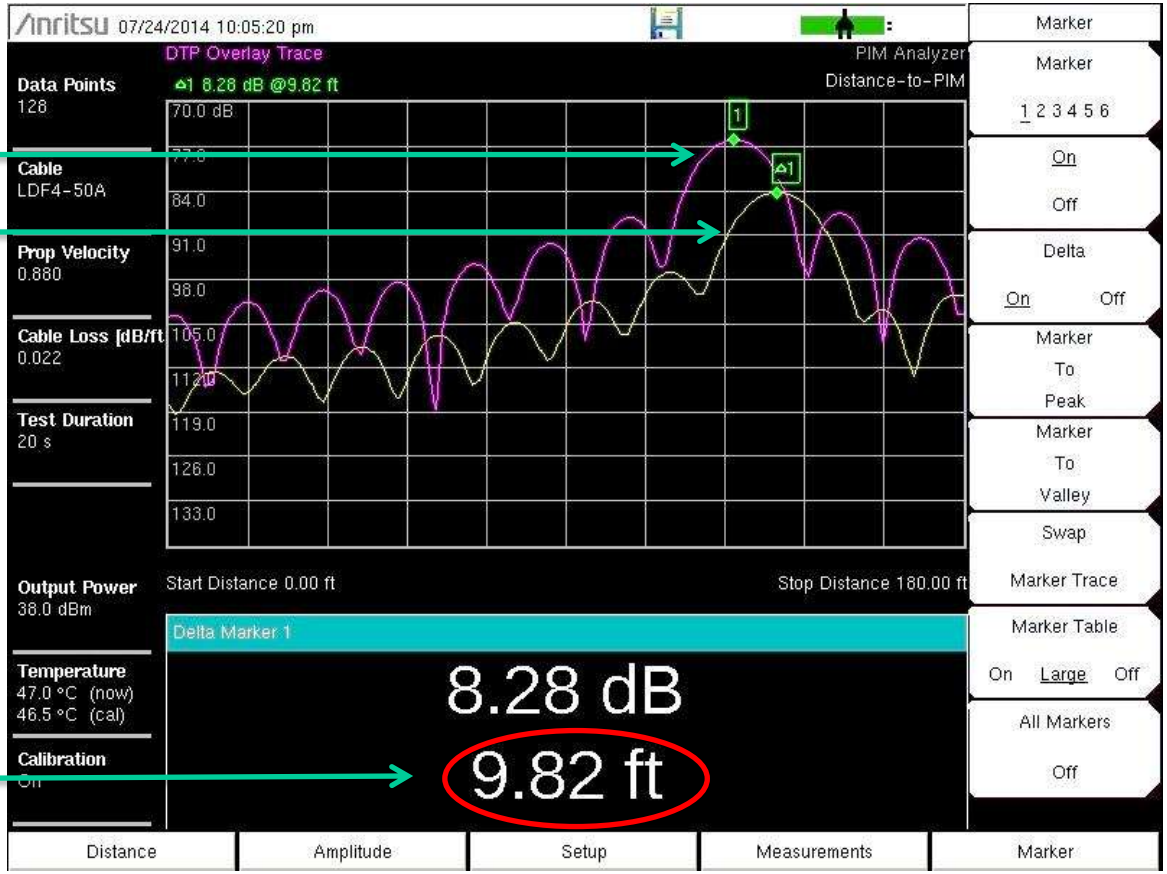
DTP / DTP Trace Overlay (existing capability)

PIM marker DTP trace

Active DTP trace

Distance between PIM marker & unknown PIM source



- DTP / DTP overlay is an unique Anritsu PIM Master capability
- Use to identify PIM beyond the antenna
- Use to show “before” vs. “after” results

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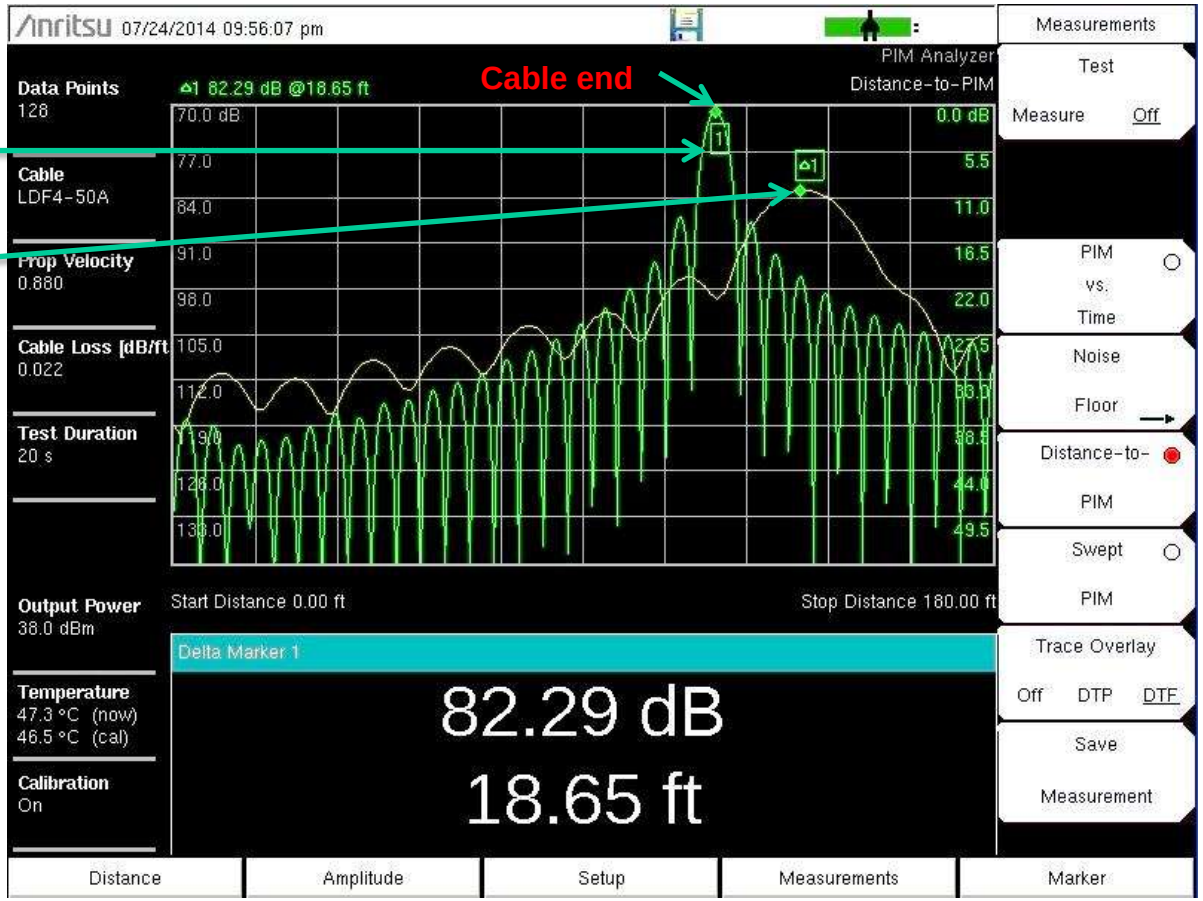
DTP / DTF Trace Overlay

NEW

DTF trace

Active DTP trace



- Use higher resolution DTF measurements (Option 331) to help locate PIM

DTF into short clearly marks the end of feed cable

Here, the PIM is likely beyond the antenna

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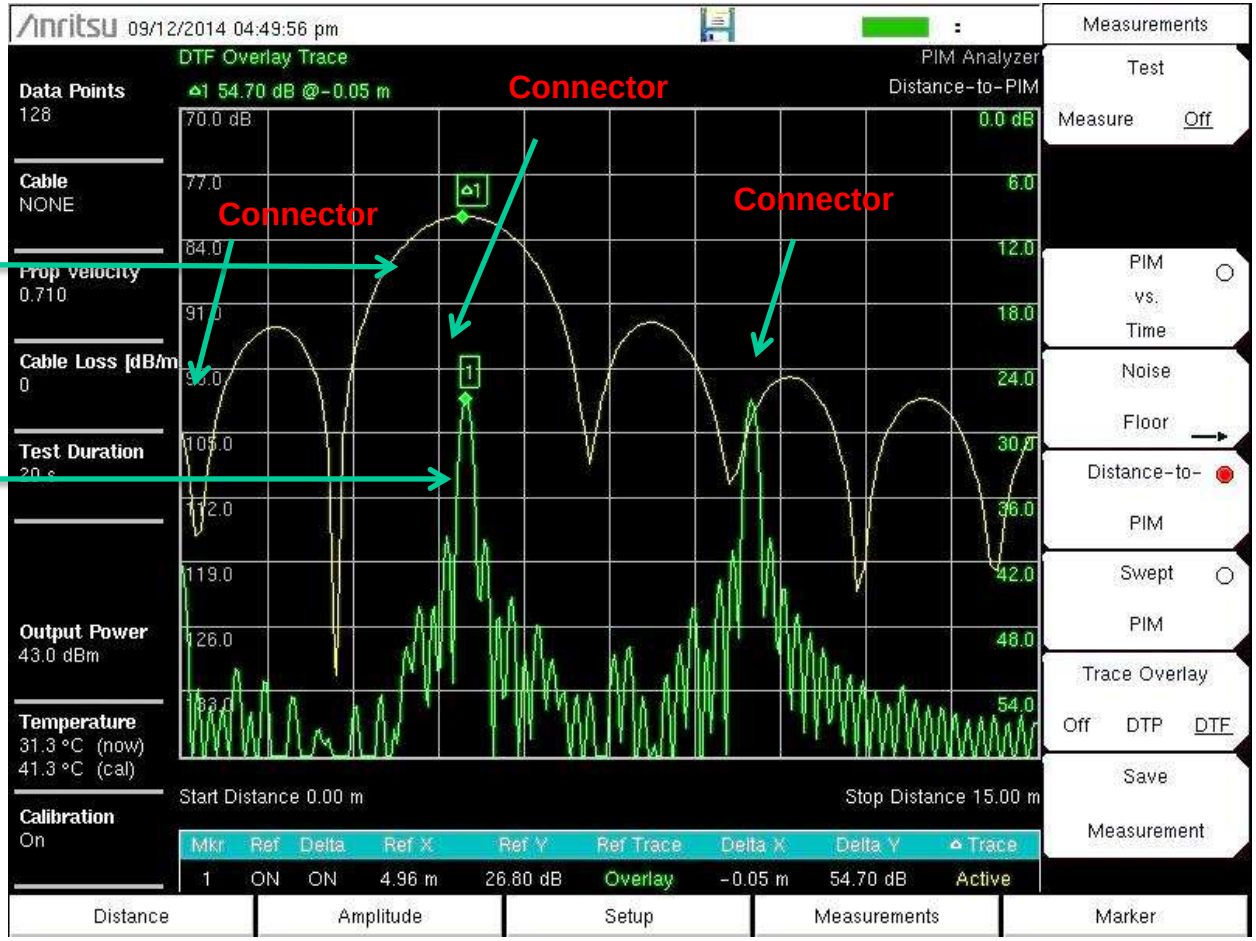
DTF / DTP Trace Overlay

Active DTP trace

DTF trace



- DTF into precision load marks connector locations
- Here, largest PIM is obviously at 2nd RF connection

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MW82119B – New features

Steel lifting rings
for easy rigging

Access to screen
& lifting rings in
soft case

Stylus
(control wearing gloves)

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MW82119B – New features

Stronger tilt bail

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MW82119B – New Environmental tests

MIL-STD-810G Transit Drop Test

- 48 in (1.2m) drop height
- Each edge, corner, face
- 26 drops total

IP54 rating

- Blowing dust
- Water spray

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