

# Instrument Firmware Revision History

Keysight N99xxA, N99xxB and N99xxC FieldFox Handheld Analyzers with CPU2

Version A12.95.00

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Release Date:	May 01, 2024
Requirements Category (e.g., operating system):	Microsoft CE
Requirements Category (e.g., instrument software version):	A.12.95

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## New Features and Enhancements:

Bug Fix - N9912C: Specific Frequency Options override group licenses

Bug Fix: RTSA time markers need to have ms resolution

Bug Fix: Fix Delta Marker active entry activation

Updated German Translations

Version A12.93.00

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Release Date:	Apr 01, 2024
Requirements Category (e.g., operating system):	Microsoft CE

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Requirements Category (e.g., instrument software version):	A.12.93
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### New Features and Enhancements:

Fix for copying files and renaming directories.

Optimization of calculating remaining media size for record/playback

Fix for recalling a SA state file under specific conditions.

Fix for ensuring 3 Hz IFBW in NA mode is available on A models.

## Version A12.92.00

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Release Date:	Feb 29, 2024
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Requirements Category (e.g., operating system):	Microsoft CE
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Requirements Category (e.g., instrument software version):	A.12.92
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### New Features and Enhancements

Update to USB Power Sensor Mode when option 208 is not present.

Update to GPS location information when saving .mat files.

## Version A12.91.00

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Release Date:	Feb 07, 2024
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Requirements Category (e.g., operating system):	Microsoft CE
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Requirements Category (e.g., instrument software version):	A.12.91
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## New Features and Enhancements

New Feature – Support for option 366 (Interference Finder)

Utility Update: SA mode: detectors can be configured independently.

## Version A12.81.00

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Release Date:	Feb 06, 2024
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Requirements Category (e.g., operating system):	Microsoft CE
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Requirements Category (e.g., instrument software version):	A.12.81
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## New Features and Enhancements

Bugfix – C models: DST Licenses don't enable B10 or B04 (for N9912C)

Bugfix – Reconnect to VSA fails after switching apps

## Version A12.64.00

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Release Date:	Nov 30, 2023
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Requirements Category (e.g., operating system):	Microsoft CE
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Requirements Category (e.g., instrument software version):	A.12.64
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## New Features and Enhancements

Bugfix – Spectrogram Time Marker Delta Bug.

Bugfix – [Power Meter and Pulse Measurements] Peak meters don't enable external zeroing.

## Version A12.62.00

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Release Date:	Nov 16, 2023
Requirements Category (e.g., operating system):	Microsoft CE
Requirements Category (e.g., instrument software version):	A.12.62

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### New Features and Enhancements

Bugfix - Pulse Measurements: Peak' key greyed out improperly after specific startup sequence.

Bugfix - Pulse Measurements: Peak to Avg incorrect measurement value displayed.

Bugfix - Pulse Measurements: Waiting for trigger state never clears.

Bugfix - Pulse Measurements: Peak key greyed out even with peak sensor attached after sensor re-plug.

## Version A12.60.00

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Release Date:	Oct 27, 2023
Requirements Category (e.g., operating system):	Microsoft CE
Requirements Category (e.g., instrument software version):	A.12.60

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### New Features and Enhancements

Bugfix: - Pulse Generator mode.

Bugfix: - Power Sensor not detected when measuring source power.

## Version A12.59.00

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Release Date:	Oct 02, 2023
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Requirements Category (e.g., operating system):	Microsoft CE
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Requirements Category (e.g., instrument software version):	A.12.59
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## New Features and Enhancements

Bugfix: - OTA mode hang on N996xB

Bugfix: - N9911x WR42 calkit causes incorrect prompts on OSL cal

## Version A12.58.00

Release Date:	Sep 12, 2023
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Requirements Category (e.g., operating system):	Microsoft CE
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Requirements Category (e.g., instrument software version):	A.12.58
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## New Features and Enhancements

Bugfix: - [CSG-105642] N9935B/Error 46: RTSA-Density-Autosession-Recording with wrong Time Display during long Recording Aufnahme (FW A.12.56)

Bugfix: - PAA: Heat Map and Trace broken on A.12.55+

Bugfix: Polar Chart: background does not change when Display color is changed.

Bugfix: In SA mode PSD function, units are not correctly shown for limit lines, display lines, and trigger levels.

Bugfix: - Pulse Measurement hangs under some conditions.

Update: Channel Scanner Update to Support 100 Measurement Channels

Update: Language translation spreadsheet

Update: Limit lines (without limit testing) available in RTSA

Update: SA markers can be turned on/off during recording playback

## Version A12.56.00

Release Date:	Feb 10, 2023
Requirements Category (e.g., operating system):	Microsoft CE
Requirements Category (e.g., instrument software version):	A.12.56
File Name:	n/a
License:	n/a

### New Features and Enhancements

Add WR112S30/S32 and WR112S10/S12 calkits

### Bug Fixes:

During Save, cursor should appear at end of name

During Save, prefix/suffix without additional file name should be supported

Entering a non-number character in "suffix number" causes firmware to crash

Fix several bugs in spectrogram scrolling. Add loopback off control

Limit line .csv reader doesn't support decimal/entry separator pair ",/;"

Need preference to bring up File Name editor when running QuickSave

OTA Recording: CSV formatting bug

Prefix/Suffix menu in Save/Recall doesn't properly show up if Group save is selected

Prevent Recording trace ID corruption

Recall Limit Line: trace data test is not updated on load

In Save/Recall menu, the Preferences softkey should open the Preferences menu directly to the page regarding Save options

### Enhancement:

Via User Preferences, add ability to save current state at instrument shutdown and to recover that state at instrument startup.

## Keysight N99xxA and N99xxB FieldFox Handheld Analyzers with CPU2 Version A12.55.00

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Release Date:	October 28, 2022
Requirements Category (e.g., operating system):	Microsoft CE
Requirements Category (e.g., instrument software version):	A.12.55
File Name:	n/a
License:	n/a

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### New Features and Enhancements

Fix for an internal frequency bug

## Keysight N99xxA and N99xxB FieldFox Handheld Analyzers with CPU2 Version A12.52.00

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Release Date:	September 13, 2022
Requirements Category (e.g., operating system):	Microsoft CE
Requirements Category (e.g., instrument software version):	A.12.52
File Name:	n/a
License:	n/a

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### New Features and Enhancements

- RTSA marker beep
- 5G NR Auto Range
- EVM Constellation Diagram
- EMF Manual Mode
- Various bug fixes and enhancements

## Keysight N99xxA and N99xxB FieldFox Handheld Analyzers with CPU2 Version A12.48.00

Release Date:	August 24, 2022
Requirements Category (e.g., operating system):	Microsoft CE
Requirements Category (e.g., instrument software version):	A.12.48
File Name:	n/a
License:	n/a

### New Features and Enhancements

- Bug 560227 - Crash unhandled/exception when parsing UBX message from the GPS
- Bug 565196 - [OTA] 5G NR EVM Hang When Configured for 626 MHz Carrier Frequency & FR1 5 MHz BW
- Bug 565928 - [CSG-91436] VNA Transform Setting
- Bug 566852 - [CSG-93637] N9935B/Error 27: Recording to SD Card with 0 Byte Autosession (FW A12.32)

## Keysight N99xxA and N99xxB FieldFox Handheld Analyzers with CPU2 Version A12.46.00

Release Date:	May 6, 2022
Requirements Category (e.g., operating system):	Microsoft CE
Requirements Category (e.g., instrument software version):	A.12.46
File Name:	n/a
License:	n/a

### New Features and Enhancements

- Fix for crash in OTA mode
- Fix for NA calibration warning when using Type N connectors



## Keysight N99xxA and N99xxB FieldFox Handheld Analyzers with CPU2 Version A12.45.00

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Release Date:	April 28, 2022
Requirements Category (e.g., operating system):	Microsoft CE
Requirements Category (e.g., instrument software version):	A.12.45
File Name:	n/a
License:	n/a

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### New Features and Enhancements

- Fix for FOPS source measurement

## Keysight N99xxA and N99xxB FieldFox Handheld Analyzers with CPU2 Version A12.44.00

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Release Date:	April 12, 2022
Requirements Category (e.g., operating system):	Microsoft CE
Requirements Category (e.g., instrument software version):	A.12.44
File Name:	n/a
License:	n/a

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### New Features and Enhancements

- Bug Fix - Channel Scanner Data Logging Timestamp Not Correct/Updating
- Bug Fix -- Format of S2P file is always DB when trace other than S11 is being measured

## Keysight N99xxA and N99xxB FieldFox Handheld Analyzers with CPU2 Version A12.43.00

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Release Date:	February 22, 2022
Requirements Category (e.g., operating system):	Microsoft CE
Requirements Category (e.g., instrument software version):	A.12.43
File Name:	n/a
License:	n/a

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### New Features and Enhancements

- Bug: IQ Streaming delivers data at incorrect frequency after stop/set freq/start sequence
- Bug: IQ Capture SDF Files Do Not Contain Correct X-Axis
- Bug: Phase inverted when applying waveguide dispersion correction

## Keysight N99xxA and N99xxB FieldFox Handheld Analyzers with CPU2 Version A12.41.00

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Release Date:	January 23, 2022
Requirements Category (e.g., operating system):	Microsoft CE
Requirements Category (e.g., instrument software version):	A.12.41
File Name:	n/a
License:	n/a

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### New Features and Enhancements

- EMI fixes and updates
- IQ streaming now can stop synchronously
- Updated LO power frequency limits for OML frequency extender heads

## Keysight N99xxA and N99xxB FieldFox Handheld Analyzers with CPU2 Version A12.40.00

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Release Date:	January 6, 2022
Requirements Category (e.g., operating system):	Microsoft CE
Requirements Category (e.g., instrument software version):	A.12.40
File Name:	n/a
License:	n/a

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### New Features and Enhancements

- Fix when booting N9912A or N9923A with a battery
- Fix syntax on two power meter SCPI queries
- Re-enable support for Option 357

Note: Does not support Option 357 Support of Additional Power Sensors Manual Control of LO Power for Frequency Extenders Bug Fixes.

## Keysight N99xxA and N99xxB FieldFox Handheld Analyzers with CPU2 Version A12.35.00

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Release Date:	November 22, 2021
Requirements Category (e.g., operating system):	Microsoft CE
Requirements Category (e.g., instrument software version):	A.12.35
File Name:	n/a
License:	n/a

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### New Features and Enhancements

- Bug fixes

## Keysight N99xxA and N99xxB FieldFox Handheld Analyzers with CPU2 Version A12.32.00

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Release Date:	October 5, 2021
Requirements Category (e.g., operating system):	Microsoft CE
Requirements Category (e.g., instrument software version):	A.12.32
File Name:	n/a
License:	Option 361

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### New Features and Enhancements

- Fix for hang when selecting OTA mode 5G NR EVM Conducted measurement

## Keysight N99xxA and N99xxB FieldFox Handheld Analyzers with CPU2 Version A12.31.00

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Release Date:	August 31, 2021
Requirements Category (e.g., operating system):	Microsoft CE
Requirements Category (e.g., instrument software version):	A.12.31
File Name:	n/a
License:	Option 361

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### New Features and Enhancements

- Fixed crash when trying to rename the current directory
- Fixed a few Option 361 bugs

## Keysight N99xxA and N99xxB FieldFox Handheld Analyzers with CPU2 Version A12.17.00

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Release Date:	April 30, 2021
Requirements Category (e.g., operating system):	Microsoft CE
Requirements Category (e.g., instrument software version):	A.12.17
File Name:	n/a
License:	n/a

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### New Features and Enhancements

- Fix - [OTA] 5G NR EVM - SSB Auto-Detect Measurements Fail Depending on Previous Measurements
- Fix - [IQA] Spectrum & Waveform SCPI Data Queries Crash Box When Using Binary Format
- Fix - ERTA "Default All" is broken
- Fix - [OTA] Indoor Log Files Don't Re-Save Properly (Capture Point Coordinate Info is Lost)
- Fix - Allow negative line-loss value to address time domain + ZMagnitude format.

## Keysight N99xxA and N99xxB FieldFox Handheld Analyzers with CPU2 Version A12.16.00

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Release Date:	March 22, 2021
Requirements Category (e.g., operating system):	Microsoft CE
Requirements Category (e.g., instrument software version):	A.12.16
File Name:	n/a
License:	n/a

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### New Features and Enhancements

- Bug Fix: NA Mode: Line Loss not applied with mixed-mode S-parameter and time-domain transform enabled
- Addition: Support for U2062XA Power Meter.

## Keysight N99xxA and N99xxB FieldFox Handheld Analyzers with CPU2 Version A12.15.00

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Release Date:	February 26, 2021
Requirements Category (e.g., operating system):	Microsoft CE
Requirements Category (e.g., instrument software version):	A.12.15
File Name:	n/a
License:	Option 312, 358

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### New Features and Enhancements

- Addition of table view and EMF to option 312 (Channel Scanner). EMF support in channel scanner also requires option 358
- Various bug fixes

## Keysight N99xxA and N99xxB FieldFox Handheld Analyzers with CPU2 Version A12.02.00

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Release Date:	October 21, 2020
Requirements Category (e.g., operating system):	Microsoft CE
Requirements Category (e.g., instrument software version):	A.12.02
File Name:	n/a
License:	n/a

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### New Features and Enhancements

- Various mapping bug fixes

## Keysight N99xxA and N99xxB FieldFox Handheld Analyzers with CPU2 Version A12.01.00

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Release Date:	September 22, 2020
Requirements Category (e.g., operating system):	Microsoft CE
Requirements Category (e.g., instrument software version):	A.12.01
File Name:	n/a
License:	n/a

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### New Features and Enhancements

- Updates related to 5GNR and mapping
- QuickSave
- Various bug fixes

## Keysight N99xxA and N99xxB FieldFox Handheld Analyzers with CPU2 Version A11.79.00

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Release Date:	August 28, 2020
Requirements Category (e.g., operating system):	Microsoft CE
Requirements Category (e.g., instrument software version):	A.11.79
File Name:	n/a
License:	n/a

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### New Features and Enhancements

- Fix N9912A and N9923A potential boot issue

## Keysight N99xxA and N99xxB FieldFox Handheld Analyzers with CPU2 Version A11.78.00

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Release Date:	July 10, 2020
Requirements Category (e.g., operating system):	Microsoft CE
Requirements Category (e.g., instrument software version):	A.11.78
File Name:	n/a
License:	n/a

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### New Features and Enhancements

- Bug: Instrument crash/freeze when sending block data to instrument via USB488.
- Bug fixes

## Keysight N99xxA and N99xxB FieldFox Handheld Analyzers with CPU2 Version A11.76.00

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Release Date:	July 10, 2020
Requirements Category (e.g., operating system):	Microsoft CE
Requirements Category (e.g., instrument software version):	A.11.76
File Name:	n/a
License:	n/a

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### New Features and Enhancements

- Bug fixes



## Keysight N99xxA and N99xxB FieldFox Handheld Analyzers with CPU2 Version A11.75.00

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Release Date:	April 30, 2020
Requirements Category (e.g., operating system):	Microsoft CE
Requirements Category (e.g., instrument software version):	A.11.75
File Name:	n/a
License:	Option 378

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### New Features and Enhancements

- 5GNR April 2020 release
- 5GNR updates
- OML frequency extender updates

## Keysight N99xxA and N99xxB FieldFox Handheld Analyzers with CPU2 Version A11.55.00

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Release Date:	February 24, 2020
Requirements Category (e.g., operating system):	Microsoft CE
Requirements Category (e.g., instrument software version):	A.11.55
File Name:	n/a
License:	n/a

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### New Features and Enhancements

- NA mode: mixed mode measurements will not sweep

## Keysight N99xxA and N99xxB FieldFox Handheld Analyzers with CPU2 Version A11.54.00

Release Date:	February 3, 2020
Requirements Category (e.g., operating system):	Microsoft CE
Requirements Category (e.g., instrument software version):	A.11.54
File Name:	n/a
License:	n/a

### New Features and Enhancements

- Mapping on-the-box download fix
- ERTA “jumper cables” softkey fix
- Noise Figure RBW 1 MHz Receiver Cal fix
- SEM and EMF fixes

## Keysight N99xxA and N99xxB FieldFox Handheld Analyzers with CPU2 Version A11.52.00

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Release Date:	January 6, 2020
Requirements Category (e.g., operating system):	Microsoft CE
Requirements Category (e.g., instrument software version):	A.11.52
File Name:	n/a
License:	Option 307, 352, 358, 378

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### New Features and Enhancements

- 5G NR over-the-air (OTA) measurements
- 5G NR EVM conducted measurements
- Indoor and outdoor mapping support
- EMF measurements
- Spectrum Emission Mask (SEM) support
- OML frequency extender support WR28 24-40 GHz
- Periodic frame trigger synced to GPS

## Keysight N99xxA and N99xxB FieldFox Handheld Analyzers with CPU2 Version A11.31.00

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Release Date:	November 11, 2019
Requirements Category (e.g., operating system):	Microsoft CE
Requirements Category (e.g., instrument software version):	A.11.31
File Name:	n/a
License:	n/a

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### New Features and Enhancements

- Bug: System, System Config, Security: high, box crashes
- Bug: B models won't connect to VSA without B04 or B10 license

## Keysight N99xxA and N99xxB FieldFox Handheld Analyzers with CPU2 Version A11.26.00

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Release Date:	July 10, 2019
Requirements Category (e.g., operating system):	Microsoft CE
Requirements Category (e.g., instrument software version):	A.11.26
File Name:	n/a
License:	n/a

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### New Features and Enhancements

- Bug: IQA Data Capture SCPI Returning More Points Than Set Value

## Keysight N99xxA and N99xxB FieldFox Handheld Analyzers with CPU2 Version A11.03.00

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Release Date:	May 05, 2019
Requirements Category (e.g., operating system):	Microsoft CE
Requirements Category (e.g., instrument software version):	A.11.03
File Name:	n/a
License:	n/a

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### New Features and Enhancements

- Bug: FOPS: 1st point of trace can be incorrect Bug: N9912A: SA mode TG not property initialized for power
- Bug: MMEM:STOR:SNP missing from N9923A