

Agilent N9923A FieldFox RF Vector Network Analyzer 2 MHz to 4/6 GHz

Data Sheet





Agilent Technologies

Table of Contents

Definitions	2
FieldFox RF Vector Network Analyzer	3
Cable and Antenna Analyzer (Option 305)	10
External USB Power Sensor Support (Option 302)	10
Vector Voltmeter (Option 308)	11
Block Diagram	11
General Information	12
N9923A FieldFox RF VNA Options	14
N9923A Upgrade Options	15
Calibration Kits	15
FieldFox Data Link Software	16

Definitions

Specification (spec.)

Warranted performance. Specifications include guardbands to account for the expected statistical performance distribution, measurement uncertainties, and changes in performance due to environmental conditions. The following conditions must be met:

- · FieldFox has been turned on for 10 minutes.
- FieldFox is within its calibration cycle.
- FieldFox remains at a stable surrounding environment temperature (between -10 to 55 °C) for 90 minutes prior to turn-on and during operation.

Typical (typ.)

Expected performance of an average unit at a stable temperature between 20 °C to 30 °C for 90 minutes prior to turn-on and during operation; does not include guardbands. It is not covered by the product warranty. The FieldFox must be within its calibration cycle.

Nominal (nom.)

A general, descriptive term or design parameter. It is not tested, and not covered by the product warranty.

Calibration

The process of measuring known standards to characterize an instrument's systematic (repeatable) errors.

Corrected (residual)

Indicates performance after error correction (calibration). It is determined by the quality of calibration standards and how well "known" they are, plus system repeatability, stability, and noise.

FieldFox RF Vector Network Analyzer

Description	Specification	Supplemental Information
Frequency range		
	2 MHz to 4 GHz	Option 104
	2 MHz to 6 GHz	Option 106
Frequency reference		
Accuracy	±2 ppm	
Aging rate	±1 ppm/yr	
Temperature stability	± 1 ppm over -10 to 55 °C	
Frequency resolution	1 Hz < 3.2 GHz 1.2 Hz > 3.2 GHz	
Data points	101, 201, 401, 601, 801, 1001	, (10,001 with SCPI)
Measurements		S11, S21 magnitude and phase S22, S12 magnitude and phase (option 122)
Formats		Log magnitude, linear magnitude, VSWR, phase, Smith chart, polar, group delay
Directivity		
Corrected, with full two-port calibration, N9910X-800 calibration kit (option 122)	42 dB	
Corrected with QuickCal (option 112)		38 dB (typical)
System impedance	50Ω (nominal)	75Ω with appropriate adapter and calibration kit
System dynamic range ¹ (IF bandwidth	n = 300 Hz)	
2 MHz to 6 GHz	90 dB	100 dB (typical)
Receiver dynamic range ² (IF bandwid	th = 300 Hz)	
2 MHz to 6 GHz		104 dB (typical)
Receiver compression level at 0.1 \ensuremath{dB}	compression	+10 dBm (typical)
Test port output power		
High		+5 dBm (nominal)
Low		-40 dBm (nominal)
Test port 1 or 2 damage level		
2 MHz to 6 GHz	+23 dBm	
Trace noise (high output power, IF bar	idwidth = 300 Hz)	
Magnitude		< 3 GHz, 0.008 dB rms (typical) > 3 GHz, 0.01 dB rms (typical)
Temperature stability		
Stability magnitude		0.01 dB/°C at 23 °C \pm 5 °C (typical)
IF bandwidths		300 Hz, 1 kHz, 3 kHz, 10 kHz, 30 kHz

1. System dynamic range = source maximum output power - receiver noise floor

2. Receiver dynamic range = receiver maximum input level - receiver noise floor

FieldFox RF Vector Network Analyzer (continued)

Display range Log magnitude S11 or S22 -1000 to 1000 dB Log magnitude S21 or S12 -1000 to 1000 dB Log magnitude resolution 0.01 dB Phase -180 to +180 degrees Phase resolution 0.01 degrees VSWR 1.01 to 1000 VSWR resolution 0.01 Averaging 2 to 999 Averages vector data on each successive sweep Number of traces Four traces available. Tr1, Tr2, Tr3, Tr4 Data markers Each trace has six independent markers that can be displayed simultant Delta markers are available for each marker. Marker formats Default marker format is the trace format. In Smith chart or polar form [Real +lmag] or [Mag and Phase] formats are also available. Marker functions Peak, Next Peak, Peak Left, Peak Right, Mkr→ Center, Min Search, Peak Excursion, Peak Threshold Sweep type Linear		
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Excursion, Peak Threshold		
Sweep type Linear	Peak, Next Peak, Peak Left, Peak Right, Mkr \rightarrow Center, Min Search, Peak Excursion, Peak Threshold	
Sweep time Set sweep time in seconds	Set sweep time in seconds	
Sweep trigger Continuous, single	Continuous, single	
Display formats Single-trace Dual-trace overlay (both traces on one graticule) Dual-trace split (each trace on separate graticules) Three-trace split (each trace on separate graticules) Quad-trace split (each trace on separate graticules)		
Display data Display data, memory, data and memory, or data math		
Trace math Vector division or subtraction of current linear measurement values a memory data.	nd	
Scale Autoscale, scale, reference level, reference position Autoscale: Automatically selects scale resolution and reference value center the trace. Autoscale all scales all visible traces.	to	
Title Add custom titles to the display.		
Limit linesDefine test limit lines that appear on the display for go/no go testing. may be any combination of horizontal, sloping lines, or discrete data p Each trace can have its own limit line.		
Calibration Types		
CalReady Each FieldFox is calibrated at the test port.		
Frequency response Simultaneous magnitude and phase correction of frequency response for either reflection or transmission measurements.	errors	
Enhanced response Corrects for frequency response and source match for transmission measurements, and corrects for reflection frequency response, directivi source match errors for reflection measurements.	ty and	
1-port calibration Corrects for directivity, frequency response, and source match errors.		

FieldFox RF Vector Network Analyzer (continued)

Description	Information
2-port calibration (with option 122)	Full 12-term error correction. Corrects for directivity, source match, reflection frequency response, load match, and transmission frequency response for an N9923A with option 122, full two-port S-parameters. Unknown thru and QSOLT are both available.
1-port QuickCal (with option 112)	Corrects for directivity, frequency response, and source match errors, using internal and external standards.
2-port QuickCal (with option 112 and 122)	Full 12-term error correction. Corrects for directivity, source match, reflection frequency response, load match, and transmission frequency response.
Guided calibration wizard	FieldFox's calibration wizard recommends a calibration type and calibration kit based on selected parameters and connector types. Alternatively, users can select their own calibration type and calibration kit.
Interpolated error correction	With any type of accuracy enhancement applied, interpolated mode recalculates the error coefficients when the test frequencies are changed. The number of points can be increased or decreased and the start/stop frequencies can be changed, but the resulting frequency span must be a subset of the original calibration frequency span.

Corrected measurement uncertainty, 2-port or enhanced response cal, high port power (default power)

Applies to N9923A, N9910X-800 Type-N (m) calibration kit, full 2-port or enhanced response calibration, IF bandwidth = 300 Hz, no averaging, data based on high port power of +5 dBm, 2-port cal available only with option 122.

	Corrected performance 2 MHz to 4 GHz	Corrected performance >4 GHz to 6 GHz
Directivity	42 dB	42 dB
Source match	36 dB	36 dB
Load match	40 dB	38 dB
Transmission tracking	±0.02 dB	±0.06 dB
Reflection tracking	±0.06 dB	±0.06 dB

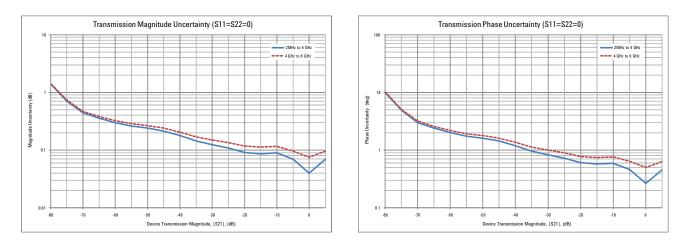


Figure 1: Transmission uncertainty (specification)

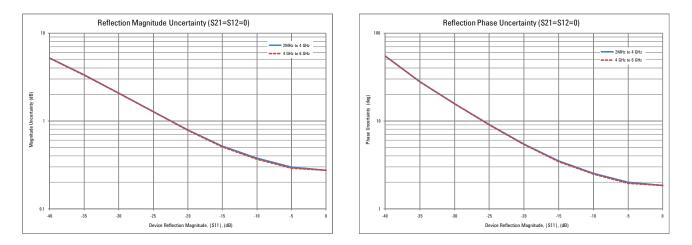


Figure 2: Reflection uncertainty (specification)

Corrected measurement uncertainty, 2-port or enhanced response cal, low port power

Applies to N9923A, N9910X-800 Type-N (m) calibration kit, full 2-port or enhanced response calibration, IF bandwidth = 300 Hz, no averaging, data based on low port power of -40 dBm, 2-port cal available only with option 122.

	Corrected performance 2 MHz to 4 GHz	Corrected performance >4 GHz to 6 GHz
Directivity	42 dB	42 dB
Source match	36 dB	36 dB
Load match	40 dB	38 dB
Transmission tracking	±0.02 dB	±0.06 dB
Reflection tracking	±0.06 dB	±0.06 dB

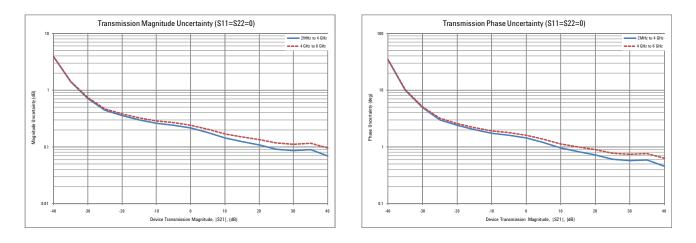


Figure 3: Transmission uncertainty (specification)

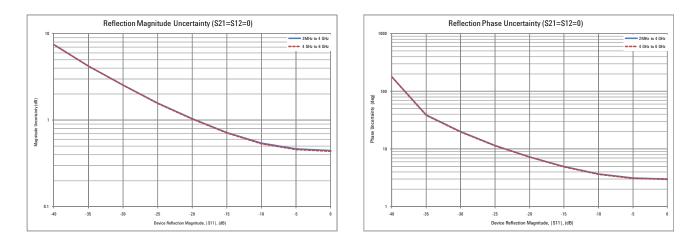
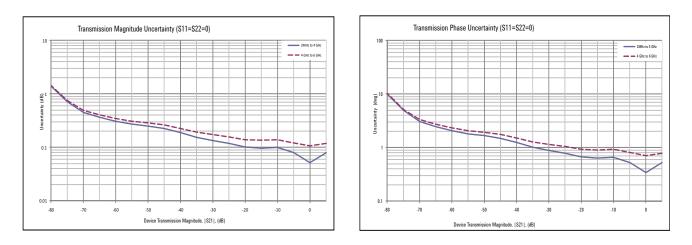


Figure 4: Reflection uncertainty (specification)

Corrected measurement uncertainty, 1- or 2-port QuickCal, high port power (default power)

Applies to N9923A with option 112, QuickCal with load, IF bandwidth = 300 Hz, no averaging, 1-port female DUT, or 2-port female-female DUT, data based on high port power of +5 dBm , 2-port QuickCal requires option 122, typical performance.

	Corrected performance 2 MHz to 4 GHz	Corrected performance >4 GHz to 6 GHz
Directivity	38 dB	38 dB
Source match	33 dB	23 dB
Load match	37 dB	35 dB
Transmission tracking	±0.04 dB	±0.09 dB
Reflection tracking	±0.06 dB	±0.06 dB





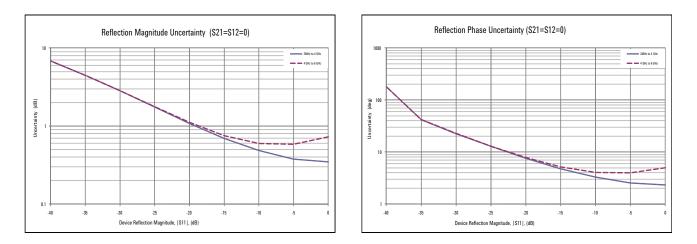


Figure 6: Reflection uncertainty

Corrected measurement uncertainty, 1- or 2-port QuickCal, low port power

Applies to N9923A with option 112, QuickCal with load, IF bandwidth = 300 Hz, no averaging, 1-port female DUT, or 2-port female-female DUT, data based on low port power of -40 dBm , 2-port QuickCal requires option 122, typical performance.

	Corrected performance 2 MHz to 4 GHz	Corrected performance >4 GHz to 6 GHz
Directivity	38 dB	38 dB
Source match	33 dB	23 dB
Load match	37 dB	35 dB
Transmission tracking	±0.04 dB	±0.09 dB
Reflection tracking	±0.06 dB	±0.06 dB

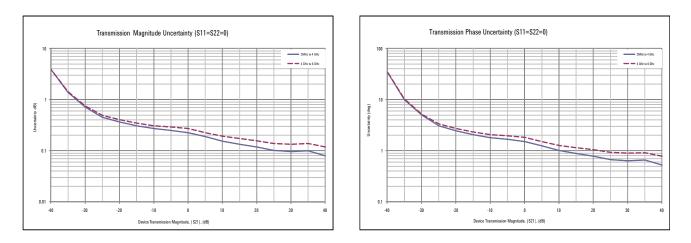


Figure 7: Transmission uncertainty

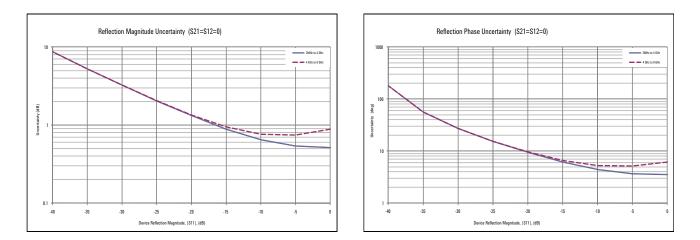


Figure 8: Reflection uncertainty

Dynamic Accuracy

Accuracy of the test port input power, relative to the specified port power.

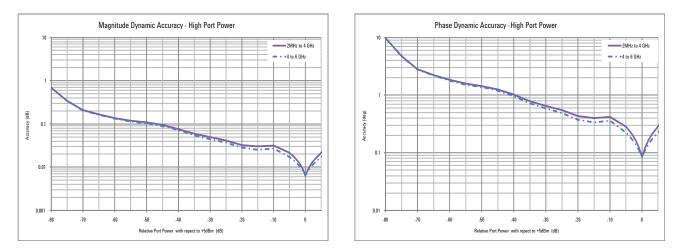


Figure 9: Dynamic accuracy (specification)

Cable and Antenna Analyzer (option 305)

The following CAT mode performance parameters are in addition to the VNA mode performance parameters specified above.

Table1: Cable and antenna a	analyzer specifications
-----------------------------	-------------------------

Description	Specification	Supplemental Information
Cable loss		
Display range	0 to 100 dB	
Resolution	0.01 dB	
Distance-to-Fault		
Horizontal range	Range = [(number of points - 1) / frequency span * 2] * velocity factor * speed of light	Number of points auto coupled according to start and stop distance entered
Horizontal Resolution	Resolution = Range/ (number of points – 1)	Number of points settable by user
Bandpass mode Window types		Maximum, medium, and minimum windows

External USB Power Sensor Support (option 302)

The external USB power sensor option supports the Agilent Technologies U2000 Series USB Average Power Sensors, and allows the user to make absolute power measurements. For specifications, refer to the U2000 Series USB Sensor's Data Sheet at http://www.agilent.com/find/usbsensor.

Vector Voltmeter (option 308)

With vector voltmeter mode, you can characterize the difference between two measurements easily. The zeroing function allows you to create a reference signal, and characterize the difference between two device measurements.

- · 1-port cable trimming reflection or S11 measurement, magnitude and phase
- · 2-port transmission transmission or S21 measurement, magnitude and phase
- A/B and B/A ratio of two receivers or channels, magnitude and phase Need an external signal generator for the A/B or B/A measurement (must order option 122).

The results are shown on a large display in digital format. Refer to the network analyzer section for magnitude and phase accuracy information.

Block Diagram

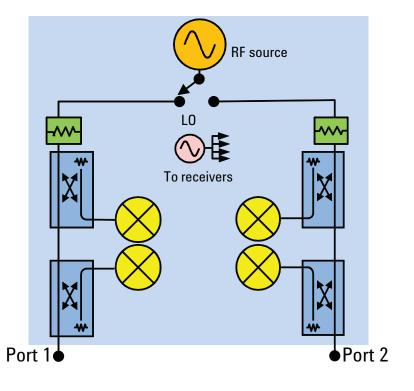


Figure 10: N9923A with option 122

Measurement throughput

Cycle time data, 1001 points, CalRdy, typical information.

Measurement speed

S11:1.75-3.85 GHz	1.4 ms/point
S21:1.78-2.06 GHz	1.4 ms/point

General Information

Description	Specification	Supplemental Information
Calibration cycle		
	1 year	
Environmental		
	 Agilent Technologies outdoor equipment class¹ 	
	• MIL-PRF-28800F class 2	
Altitude – operating	9,144 m (30,000 ft)	Under battery operation [AC to DC adapter rated at 3,000 m (9,840 ft)]
Altitude – non–operating	15,240 m (50,000 ft)	
Intrusion protection	IP 30 IEC/EN 60529	
Temperature range		
Operating		
AC power	–10 to 55 °C	
Battery	–10 to 50 °C	-10 to 55 °C (typical)
Storage	–51 to 71 °C	With the battery pack removed. The battery packs should be stored in an environment with low humidity. Extended exposure to temperature above 45 °C could degrade battery performance and life.
EMC		
Complies with European	• EC/EN 61326-1	
EMC Directive 2004/108/EC	• CISPR Pub 11 Group 1, class A	
Directive 2004/ 100/ 20	AS/NZS CISPR 11	
	ICES/NMB-001	
ESD		
	• IEC/EN 61000-4-2	
Safety		1
Complies with European	• EC/EN 61010–1 2 nd Edition	
Low Voltage Directive 2006/95/EC	• Canada: CSA C22.2 No. 61010–1–04	
	• USA: UL 61010–1 2 nd Edition	
Power		·
Power supply		
External DC input		40 W maximum when battery charging
External AC power adapter		Efficiency Level IV, 115 VAC
Input	100 to 250 VAC, 50 to 60 Hz 1.25 – 0.56 A	
Output	15 VDC, 4 A	
Power consumption		On: 14 W (typical)

1. Samples of this product have been type tested in accordance with the Agilent Environmental Test Manual (ETM) for outdoor equipment (OE) and verified to be robust against the environmental stresses of storage, transportation and end use; those stresses include but are not limited to temperature, humidity, shock, vibration, altitude and power line conditions

General Information (continued)

Description	Specification	Supplemental Information
Battery		
	10.8 V, 4.6 A–h	Lithium ion
Operating time		3.5 hours (typical)
Charge time	A fully discharged battery takes about 1.5 hours to recharge to 80%, 4 hours to 100%	
Discharge temperature limits ¹	–10 to 60 °C, ≤ 85% RH	
Charge temperature limits ¹	0 to 45 °C, ≤ 85% RH	
Storage temperature limits	–20 to 50 °C1, ≤ 85% RH	The battery packs should be stored in an environment with low humidity. Extended exposure to temperature above 45 °C could degrade battery performance and life
Data storage		
Internal	Minimum 16 MB	Up to 1000 instrument states and trace
External		Supports USB 2.0 compatible memory devices; Supports microSD and microSDHC memory cards
Display	6.5" transflective color VGA LED–backlit 640 x 480 with anti–glare coating	
Weight	2.7 kg (6.0 lbs) including battery	
Dimensions (H x W x D)	292 x 188 x 72 mm (11.5″ x 7.4″ x 2.8″)	
Test ports		
RF Port 1 or Port 2		
Connector	Type–N, female	
Impedance	50 Ω (nominal)	
Damage level	> +23 dBm, > ±50 VDC	

 Charge and discharge temperatures are internal temperatures of the battery as measured by a sensor embedded in the battery. The Battery screen displays temperature information. To access the screen, select System, Service Diagnostics and Battery

General Information (continued)

Description	Specification	Supplemental Information
Headphone Jack Connector	3.5 mm (¼ inch) miniature audio jack	
USB		
USB–A (2 ports)	Hi–speed USB 2.0	
Mini USB (1 port)	Hi–speed USB 2.0	Provided for future use.
LAN	100Base-T ONLY	10Base-T is NOT supported
External	RJ–45 connector	
Programming	The built-in LAN interface and firmware, support data transfer and control via direct connection to a LAN network.	
External Reference / Trigger	Input	
Connector	BNC female	
External reference		
Input frequency	10 MHz	
Input amplitude range		–5 dBm to +10 dBm (nominal)
Impedance		50 Ω (nominal)
Lock Range		±10 ppm of external reference frequency (nominal)
Trigger Input		
Impedance		10 KΩ (nominal)
Level Range		
Rising Edge		1.7 V (nominal)
Falling Edge		1 V (nominal)

N9923A FieldFox RF VNA Options

Must select 104 or 106 as a minimum. 104 and 106 are mutually exclusive.

N9923A-104	4 GHz RF vector network analyzer, transmission/reflection: Includes S11 and S21, mag and phase, one-port and enhanced response calibration, 2 MHz to 4 GHz.
N9923A-106	6 GHz RF vector network analyzer, transmission/reflection: Includes S11 and S21, mag and phase, one-port and enhanced response calibration, 2 MHz to 6 GHz.
N9923A-112	QuickCal: Adds one-port QuickCal and two-port QuickCal (two-port QuickCal only if option 122 is ordered).
N9923A-122	Full two-port S-parameters: Adds S12, S22, and full two-port calibration.
N9923A-302	External USB power sensor support: Enables USB port to be used for power measurements. Power sensor not included.
N9923A-305	Cable and antenna analyzer: Adds Cable and Antenna Test (CAT) mode, which allows for DTF measurements. Measurements include DTF (dB), RL & DTF, RL (dB), VSWR, DTF (VSWR), Cable loss (1-port), Insertion loss (2-port), and DTF (linear).
N9923A-308	Vector voltmeter: Provides 1-port cable trimming and 2-port transmission measurements.

N9923A Upgrade Options

Agilent FieldFox Customer Support http://na.tm.agilent.com/fieldfox

N9923AU-122	Add full two-port S-parameter capability to an N9923A.
N9923AU-112	Add QuickCal capability to an N9923A.
N9923AU-305	Add cable and antenna analysis to an N9923A.
N9923AU-302	Add external USB power sensor support to an N9923A. Power sensor not included.
N9923AU-308	Add vector voltmeter capability to an N9923A.

Calibration Kits

The following is a list of the calibration kits that are loaded in a standard FieldFox. Users can add additional calibration kits to their unit using FieldFox Data Link Software. Note regarding QuickCal: The basic QuickCal, either 1 or 2-port does not require any standards. For higher accuracy, users can perform QuickCal with a load.

N9910X-800	T-calibration kit, DC-6 GHz, Type-N(m)
N9910X-801	T-calibration kit, DC-6 GHz, Type-N(f)
N9910X-802	T-calibration kit, DC-6 GHz, 7/16 DIN(m)
N9910X-803	T-calibration kit, DC-6 GHz, 7/16 DIN(f)
85031B	Economy calibration kit, DC to 6 GHz, 7 mm
85032E	Economy calibration kit, DC to 6 GHz, Type-N, 50-ohm
85032F	Standard calibration kit, DC to 9 GHz, Type-N, 50-ohm
85033E	Standard calibration kit, DC to 9 GHz, 3.5 mm
85036B	Standard calibration kit, DC to 3 GHz, Type-N 75-ohm
85036E	Economy calibration kit, DC to 3 GHz, Type-N 75-ohm
85038A	Standard calibration kit, DC to 7.5 GHz, 7-16
85039B	Economy calibration kit, DC to 3 GHz, Type-F, 75-ohm
85052D	Economy calibration kit, DC to 26.5 GHz, 3.5 mm
85054B	Standard calibration kit, DC to 18 GHz, Type-N, 50-ohm
85054D	Economy calibration kit, DC to 18 GHz, Type-N, 50-ohm

FieldFox Data Link Software

FieldFox Data Link software, installed on a PC, provides the following capabilities:

- · Capture of current trace and setting
- Opening of data files (s1p, s2p, csv, sta, and png) residing on the instrument
- · Editing cal kit and cable files on the instrument, or creating new cal kits and cables
- · Transferring files to/from the instrument
- Annotating plots for documentation purposes
- · Marker, limit line, and format changes on the PC
- Report generation
- · Printing function

FieldFox Data Link Software is available from Agilent FieldFox Customer Support http://na.tm.agilent.com/fieldfox

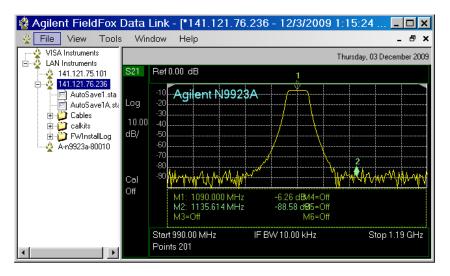


Figure 11: FieldFox Data Link Software

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India	1 800 112 929
Japan	0120 (421) 345
Korea	080 769 0800
Malaysia	1 800 888 848
Singapore	1 800 375 8100
Taiwan	0800 047 866
Thailand	1 800 226 008

Europe & Middle East

Austria	43 (0) 1 360 277 1571
Belgium	32 (0) 2 404 93 40
Denmark	45 70 13 15 15
Finland	358 (0) 10 855 2100
France	0825 010 700*
	*0.125 €/minute
Germany	49 (0) 7031 464 6333
Ireland	1890 924 204
Israel	972-3-9288-504/544
Italy	39 02 92 60 8484
Netherlands	31 (0) 20 547 2111
Spain	34 (91) 631 3300
Sweden	0200-88 22 55
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