

SNA5000X-E Series Vector Network Analyzer



DataSheet
EN01A



SIGLENT TECHNOLOGIES CO.,LTD

SNA5000X-E

General Description

The SIGLENT SNA5000X-E series of Vector Network Analyzers have a frequency range of 9 kHz to 6.5 GHz, which support 2-port scattering parameter, differential-parameter, and time-domain parameter measurements. The SNA5000X-E series of VNAs are effective instrumentation for determining the Q-factor, bandwidth, and insertion loss of a filter. They feature impedance conversion, movement of measurement plane, fixture simulation, and adapter removal/insertion adjustments. The VNAs have five sweep types: Linear-Frequency mode, Log-Frequency mode, Power-Sweep mode, CW-Time mode, and Segment-Sweep mode. The SNA5000X-E series VNAs also support scattering-parameter correction of SOLT, SOLR, TRL, Response, and Enhanced Response for increased flexibility in R&D and manufacturing applications.

Features

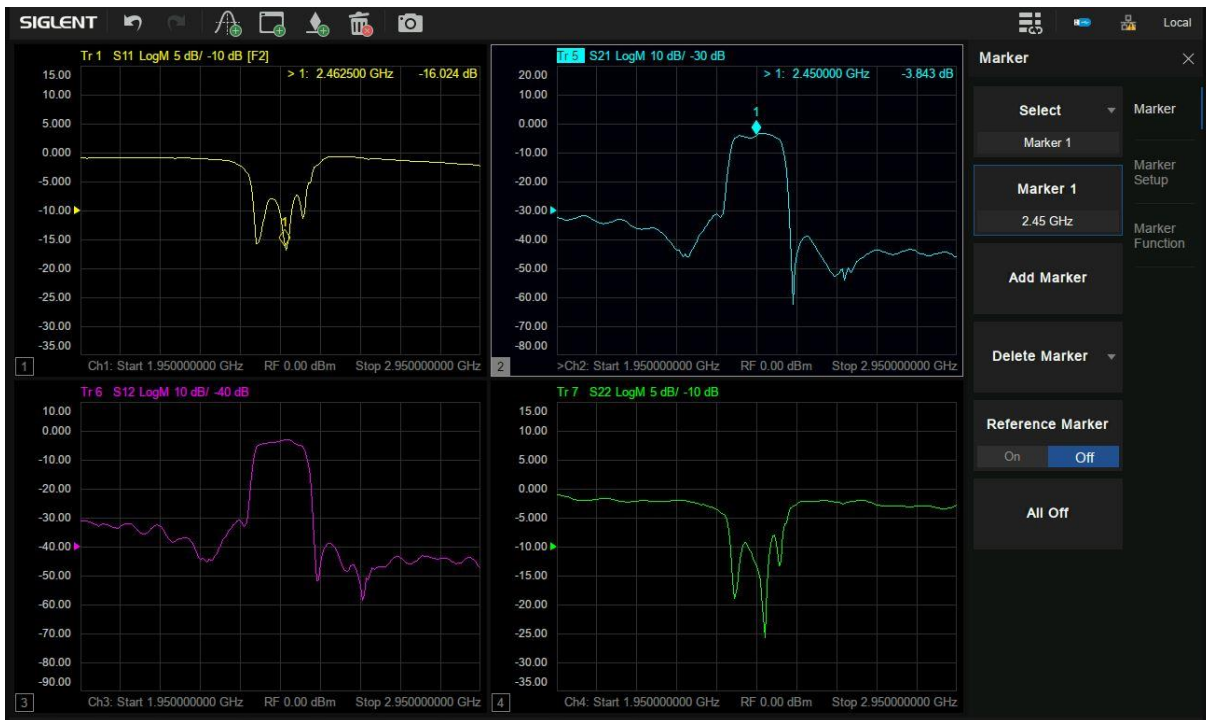
- Frequency range: 9 kHz – 6.5 GHz
- Frequency resolution: 1 Hz
- Level resolution: 0.05 dB
- Range of IFBW: 1 Hz~10 MHz
- Setting range of output level:
-40 dBm ~ +10 dBm
- Dynamic range: 125 dB (typ.)
- Types of calibration: Response calibration, Enhanced Response calibration, Full-one port calibration, Full-two port calibration, TRL calibration
- Types of measurement: Scattering-parameter measurement, differential-parameter measurement, receiver measurement, time-domain parameter analysis, impedance conversion, fixture simulation, adapter removal/insertion, spectrum analysis
- Internal Bias-Tee connections
- Interface: LAN, USB Device, USB Host (USB-GPIB)
- Remote control: SCPI/ Labview/ IVI based on USB-TMC / VXI-11 / Socket /Telnet / WebServer
- 12.1-inch touch screen
- Video output: HDMI

Models and key specifications

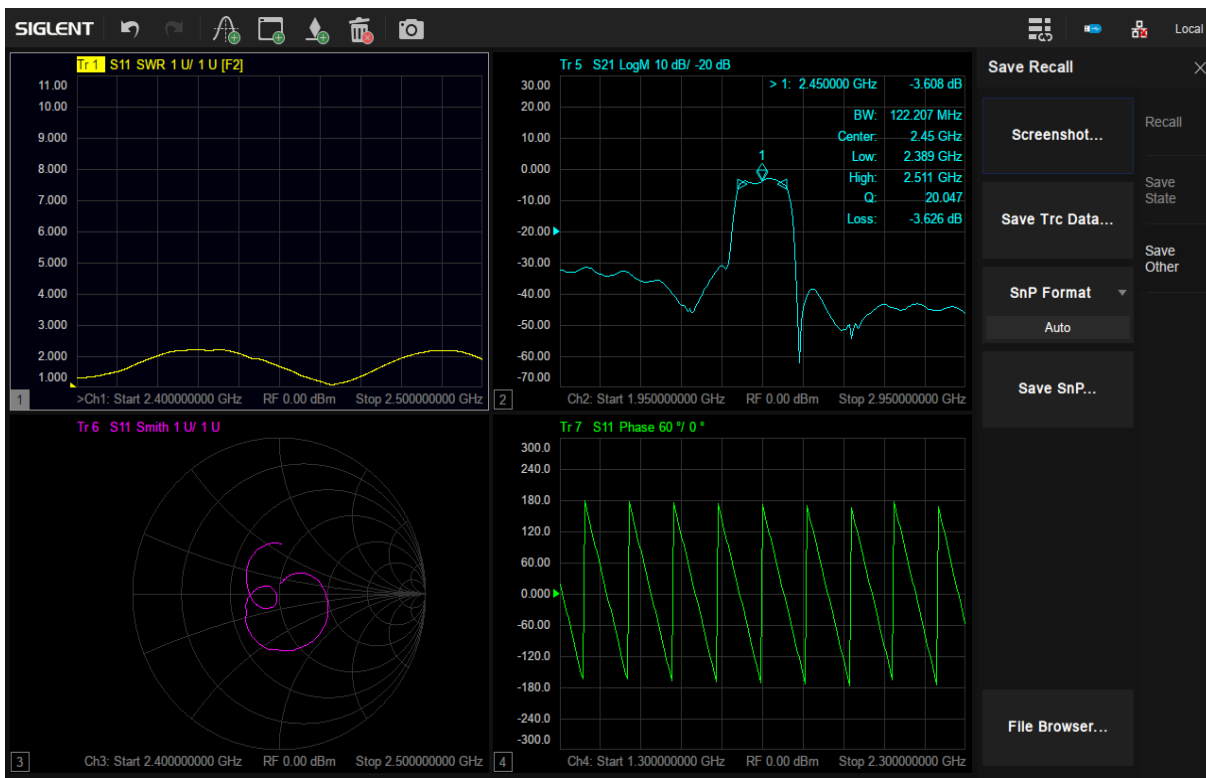
| Model | SNA5003X-E | SNA5006X-E |
|-------------------------------|---|----------------|
| Frequency range | 9 kHz– 3 GHz | 9 kHz- 6.5 GHz |
| Ports | 2 | |
| Frequency resolution | 1 Hz | |
| Level resolution | 0.05 dB | |
| Range of IFBW | 1 Hz ~ 10 MHz | |
| Number of points | 2 ~ 20001 | |
| Setting range of output level | -40 dBm ~ +10 dBm | |
| Dynamic range | 125 dB (typ.) | |
| Types of calibration | Response calibration, Enhanced Response calibration, Full-one port calibration, Full-two port calibration, TRL calibration | |
| Types of measurement | Scattering-parameter measurement, differential-parameter measurement, receiver measurement, time-domain parameter analysis, impedance conversion, fixture simulation, adapter removal/insertion, enhanced time-domain parameter analysis (TDR), spectrum analysis | |
| Bias-Tees | Support | |
| Interface | LAN, USB Device, USB Host (USB-GPIB) | |
| Remote control | SCPI/ Labview/ IVI based on USB-TMC/ VXI-11/ Socket/ Telnet/ WebServer | |
| Display | 12.1-inch touch screen | |
| Video output | HDMI | |

Design Features

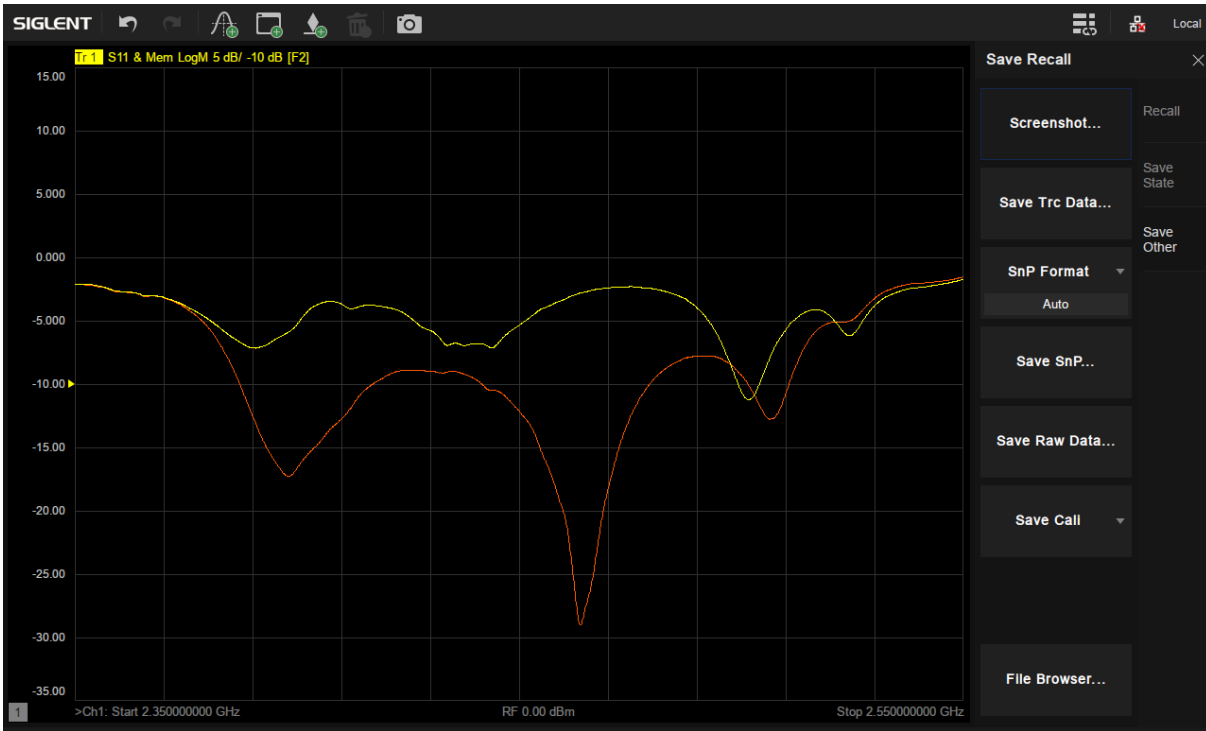
Multi-window display:



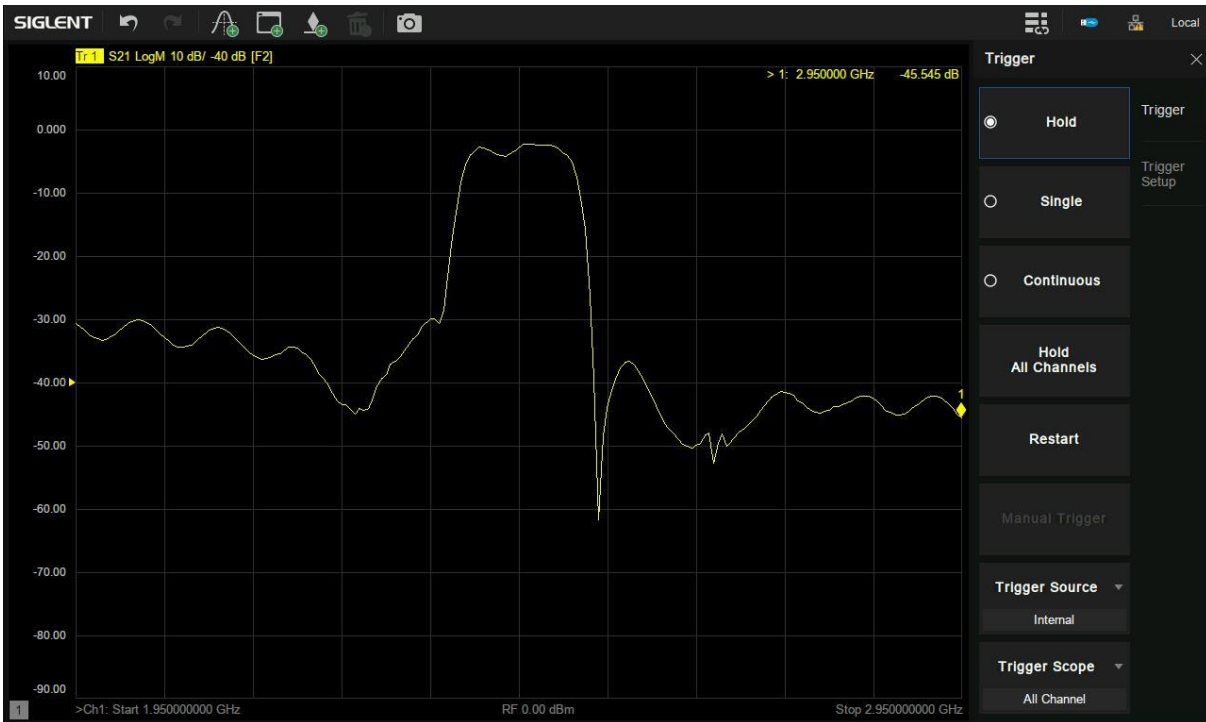
Multi-format display:



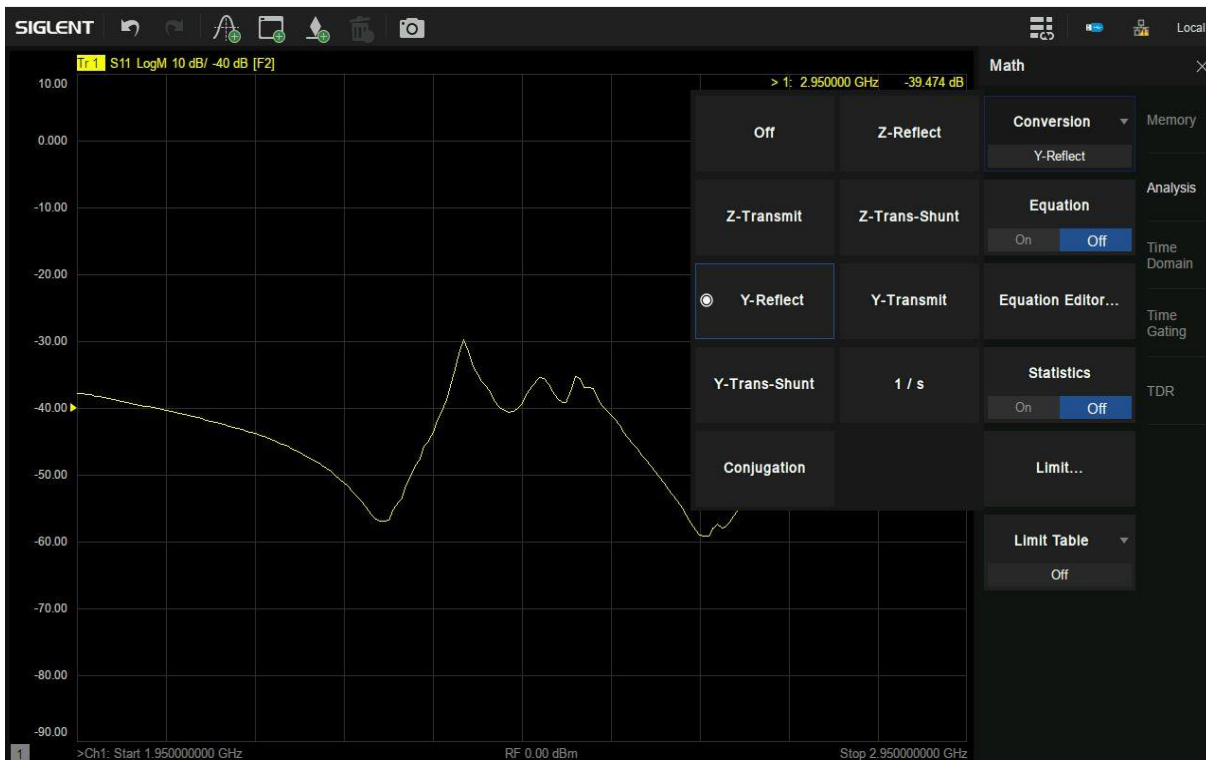
Display and compare memory and current data:



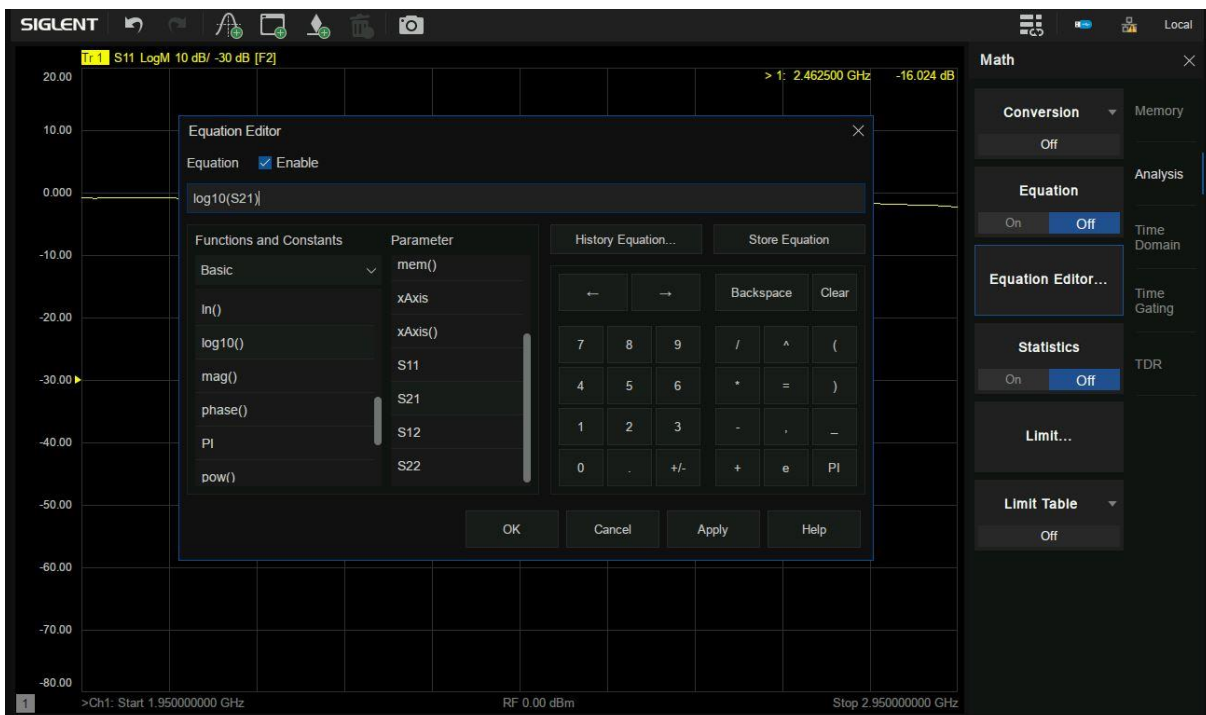
Display data hold:



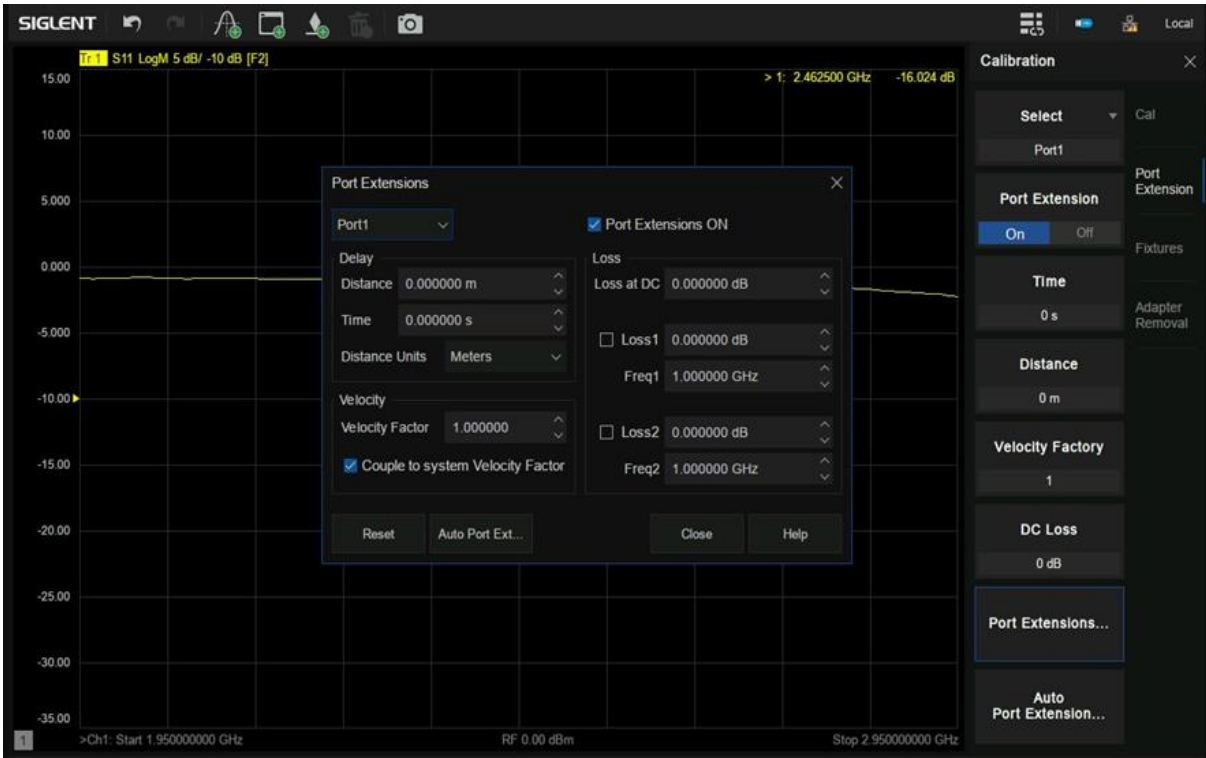
Impedance conversion:



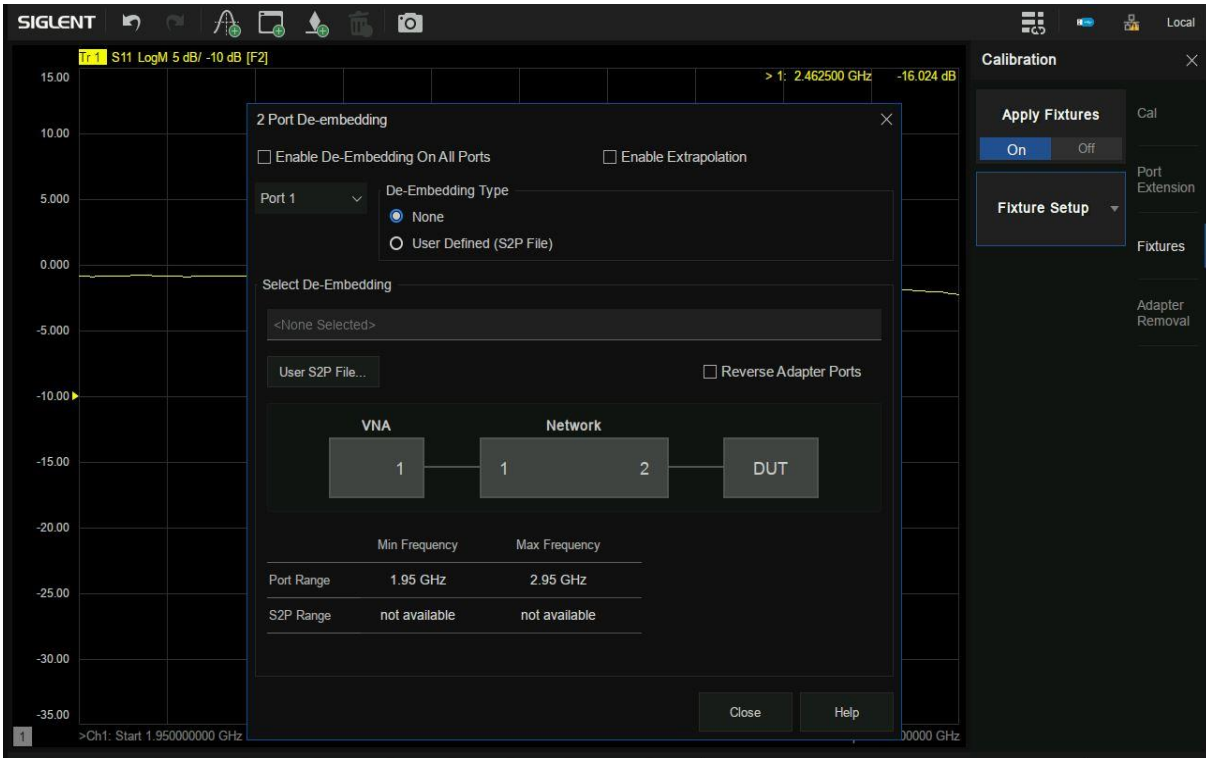
Equation Editor:



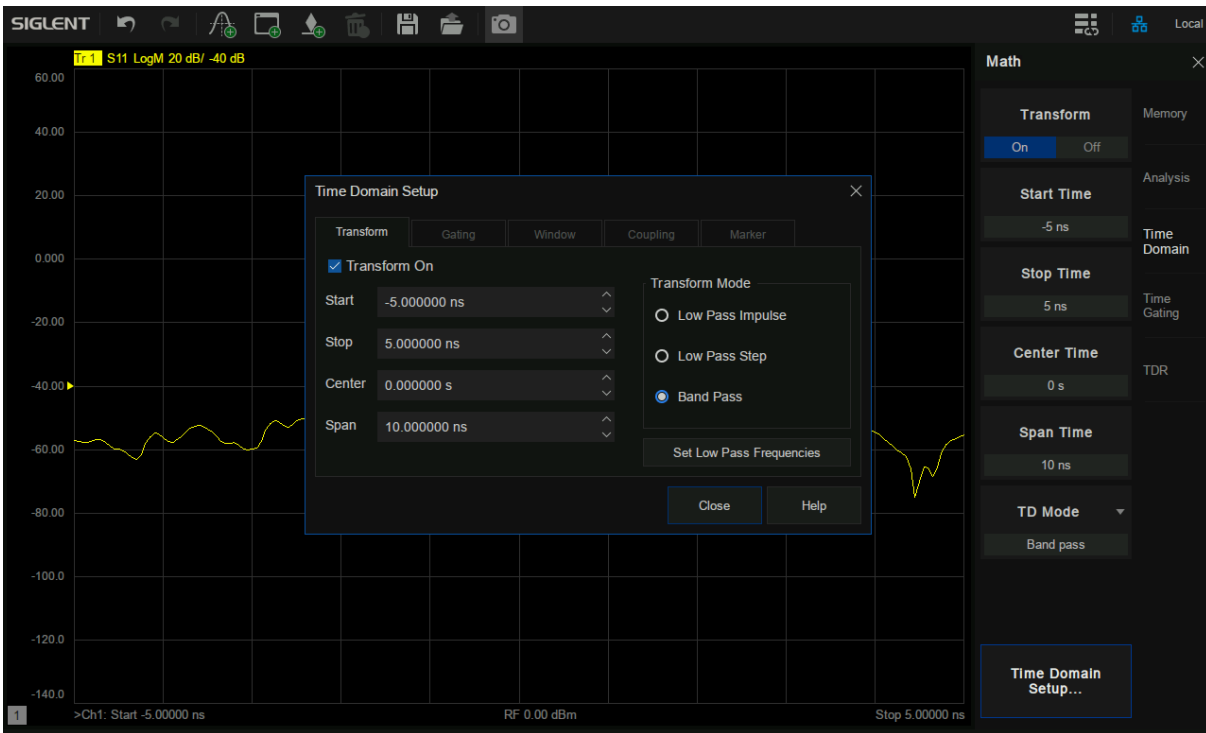
Port Extensions:



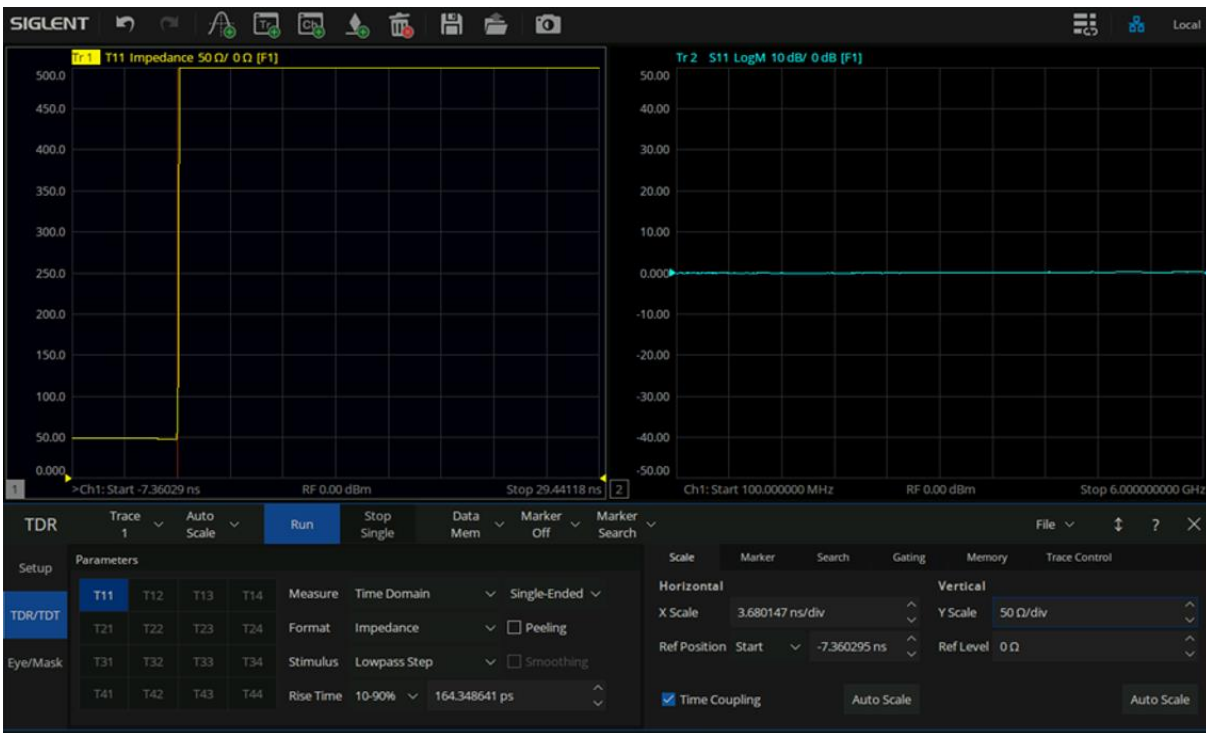
Embedding and De-Embedding:



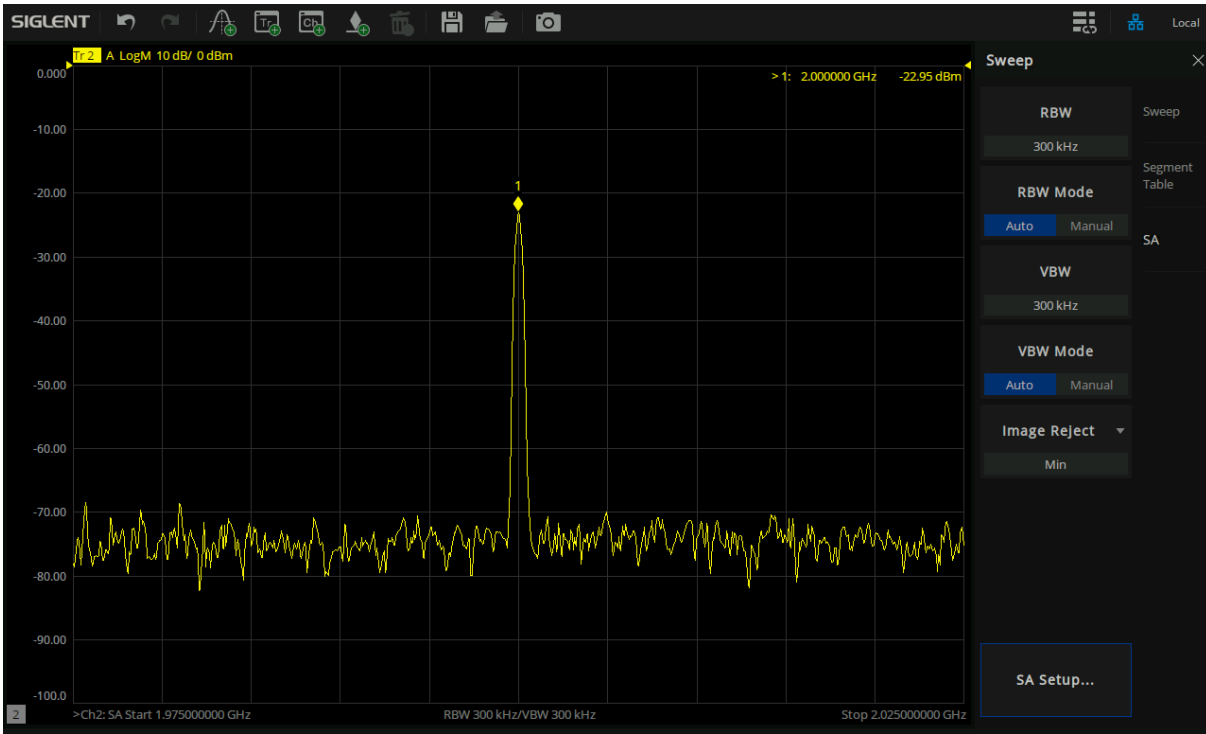
Time-Domain analysis:



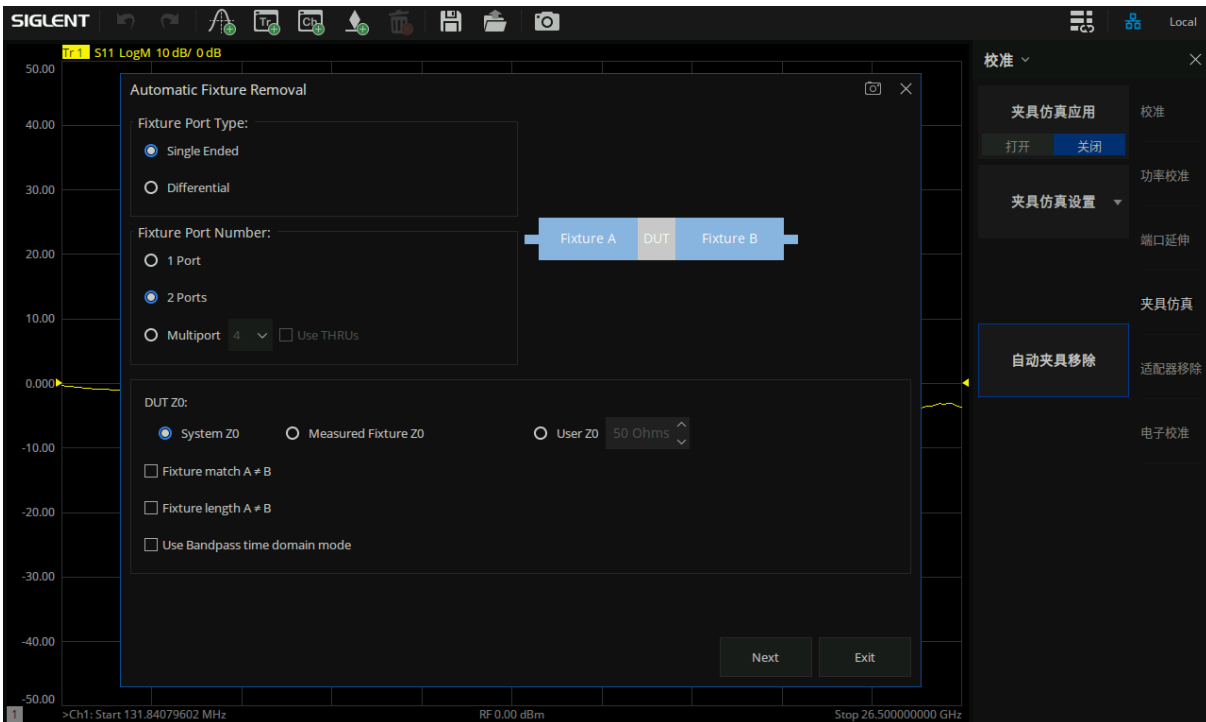
Enhanced Time-Domain analysis(TDR):



Spectrum analysis:



Automatic Fixture Removal:



Definitions

Specifications are valid under the following conditions: The instrument is within the calibration period, has been stored between 0 and 40°C for at least 2 hours before use, and has been powered on and warmed up for at least 90 minutes. The specifications include the measurement uncertainty unless otherwise noted.

Specifications: All products are guaranteed to meet published specifications at room temperature (approximately 23±5°C), unless otherwise noted.

Typical: Performance deemed typical implies that 80 percent of the measurement results will meet the typical published performance with a 95th percentile confidence level at room temperature (approximately 23±5°C). Typical performance is not warranted and does not include measurement uncertainty.

Nominal: This value indicates the expected mean or average performance, or an attribute whose performance is by design, such as the 50 Ohm connector.

Specifications

Dynamic range

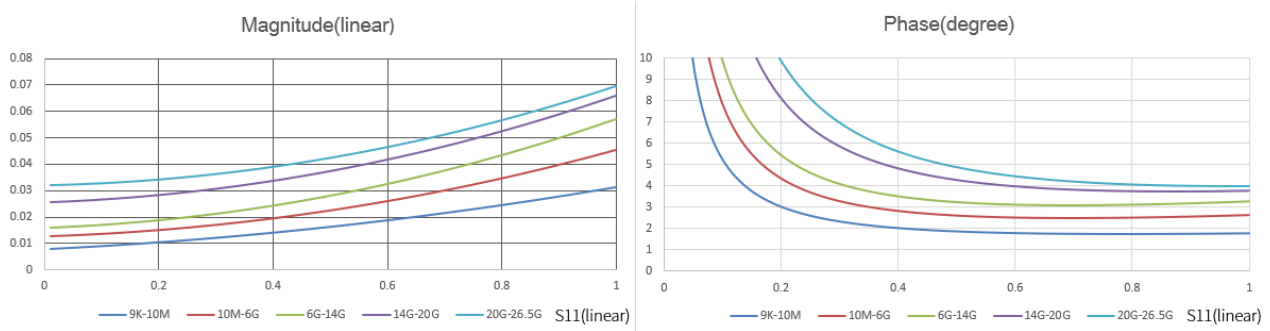
| Frequency range | IFBW | Specification(dB) | Typical (dB) |
|------------------|------|-------------------|--------------|
| 9 kHz- 100 kHz | 10Hz | 85 | 100 |
| 100 kHz- 300 kHz | | 100 | 115 |
| 300 kHz- 20 MHz | | 110 | 120 |
| 20 MHz- 4.5 GHz | | 117 | 125 |
| 4.5 GHz- 6 GHz | | 110 | 120 |
| 6 GHz- 6.5 GHz | | 105 | 115 |

Corrected system performance with calibration kit

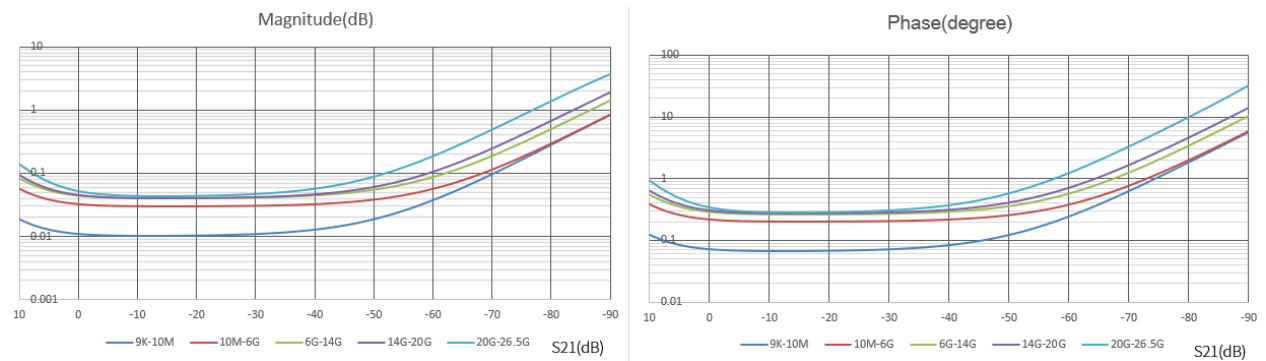
User correction: On, system correction: On; Corrected system performance with Keysight 85052D 3.5mm calibration kit, isolation calibration performed. IFBW is 10 Hz, no averaging applied to data, and environmental temperature is 23°C (± 5°C), with < 1°C deviation from calibration temperature.

| Specification (dB) | 9 kHz-10 MHz | 10MHz-6GHz | 6 GHz-6.5 GHz |
|-----------------------|--------------|------------|---------------|
| Directivity | 41 | 38 | 32 |
| Source match | 38 | 32 | 30 |
| Load match | 42 | 38 | 35 |
| Reflect tracking | ±0.02 | ±0.06 | ±0.07 |
| Transmission tracking | ±0.1 | ±0.15 | ±0.25 |

Reflection uncertainty (Specification, Power: -10 dBm, IFBW:10 Hz):



Transmission uncertainty (Specification, Power: -10 dBm, IFBW:10 Hz):




Uncorrected system performance


User correction: Off, system correction: On; IFBW is 10 Hz, no averaging applied to data.

| Specification (dB) | 9 KHz- 1 MHz | 1 MHz- 50 MHz | 50 MHz- 200 MHz | 200 MHz- 1 GHz | 1 GHz- 6 GHz | 6 GHz- 6.5 GHz |
|-----------------------|-----------------|------------------|--------------------|-------------------|-----------------|-------------------|
| Directivity | 15 | 20 | 25 | 25 | 25 | 25 |
| Source match | 20 | 25 | 25 | 25 | 25 | 25 |
| Load match | 6 | 6 | 7 | 7 | 12 | 10 |
| Reflect tracking | ±1.0 | ±1.0 | ±1.0 | ±1.0 | ±1.0 | ±1.0 |
| Transmission tracking | ±1.0 | ±1.0 | ±1.0 | ±1.0 | ±1.0 | ±1.0 |

Test port output (Source)

 Test port output frequency

| Description | Specification |
|----------------------|---|
| Frequency range | |
| SNA5003X-E | 9 kHz to 3 GHz |
| SNA5006X-E | 9 kHz to 6.5 GHz |
| Frequency resolution | 1 Hz |
| CW accuracy | |
| Standard | ± 5.0 ppm (23 ± 3 °C) |
| Option: SNA5000-HPR | ± 0.1 ppm (23 ± 3 °C) |
| Source stability | |
| Standard | ± 5.0 ppm (0 to 40 °C) ± 0.5 ppm/year, ± 3.0 ppm/20 year |
| Option: SNA5000-HPR | ± 1 ppb (0 to 40 °C), ± 50 ppb/year |

 Test port output power

| Description | Specification | Typical |
|------------------|---------------------------------|---------|
| Preset power | -10 dBm | |
| Level accuracy | | |
| 9 kHz - 100 kHz | ± 2.0 dB@-10 dBm | |
| 100 kHz - 20 MHz | ± 2.0 dB@-10 dBm | |
| 20 MHz - 1 GHz | ± 1.5 dB@-10 dBm | |
| 1 GHz- 6 GHz | ± 1.5 dB@-10 dBm | |
| 6 GHz- 6.5 GHz | ± 2.0 dB@-10 dBm | |
| Level linearity | | |
| 9 kHz- 100 kHz | ± 1.5 dB (-20 dBm to 0 dBm) | |
| 100 kHz- 100 MHz | ± 1.2 dB (-20 dBm to 0 dBm) | |
| 100 MHz- 1 GHz | ± 1.0 dB (-20 dBm to 0 dBm) | |
| 1 GHz- 6.5 GHz | ± 1.0 dB (-20 dBm to 0 dBm) | |
| Sweep range | | |
| 9 kHz- 100 kHz | -40 dBm to -5 dBm | |
| 100 kHz- 100 MHz | -40 dBm to 0 dBm | |
| 100 MHz- 1 GHz | -40 dBm to 0 dBm | |

| | | |
|-------------------|------------------|---------|
| 1 GHz- 6.5 GHz | -40 dBm to 0 dBm | |
| Max leveled power | | |
| 9 kHz- 100 kHz | -5 dBm | -1 dBm |
| 100 kHz- 100 MHz | 0 dBm | 5 dBm |
| 100 MHz- 1 GHz | 0 dBm | 6 dBm |
| 1 GHz- 6.5 GHz | 0 dBm | 4 dBm |
| Level resolution | | 0.05 dB |

Test port input

Test port input levels

| Description | Specification | Typical |
|-----------------------------|-------------------------|-------------|
| Max input level | | |
| 9 kHz-6.5 GHz | +10 dBm | |
| Damage input level | | |
| 9 kHz-6.5 GHz | +27 dBm(RF) or 35 V(DC) | |
| Level accuracy | | |
| 9 kHz - 100 kHz | ±2.0 dB@-10 dBm | |
| 100 kHz - 10 MHz | ±2.0 dB@-10 dBm | |
| 10 MHz - 1 GHz | ±2.0 dB@-10 dBm | |
| 1 GHz – 6.5 GHz | ±1.5 dB@-10 dBm | |
| Crosstalk | | |
| 9 kHz- 18 kHz | -75 dB | -95 dB |
| 18 kHz- 100 kHz | -90 dB | -100 dB |
| 100 kHz- 1 MHz | -95 dB | -105 dB |
| 1 MHz- 30 MHz | -105 dB | -115 dB |
| 30 MHz- 4.5 GHz | -115 dB | -120 dB |
| 4.5 GHz- 6 GHz | -110 dB | -115 dB |
| 6 GHz- 6.5 GHz | -100 dB | -105 dB |
| Noise floor | | |
| 9 kHz- 100 KHz | -100 dBm/Hz | -115 dBm/Hz |
| 100 kHz- 300 KHz | -110 dBm/Hz | -125 dBm/Hz |
| 300 kHz- 20 MHz | -120 dBm/Hz | -130 dBm/Hz |
| 20 MHz- 4.5 GHz | -127 dBm/Hz | -135 dBm/Hz |
| 4.5 GHz- 6 GHz | -120 dBm/Hz | -130 dBm/Hz |
| 6 GHz- 6.5 GHz | -115 dBm/Hz | -125 dBm/Hz |
| Compression level (+10 dBm) | | |
| Magnitude | | |
| 9 kHz- 20 MHz | 0.3 dB | 0.2 dB |
| 20 MHz – 6.5 GHz | 0.5 dB | 0.2 dB |
| Phase | | |
| 9 kHz- 20 MHz | 2 deg | 1.5 deg |
| 20 MHz – 6.5 GHz | 5 deg | 2 deg |

Trace noise

| Description | Specification | Typical |
|---|---------------|---------------|
| Note: Setting max output power | | |
| Transmission and reflection trace noise magnitude | | |
| 9 kHz- 10 MHz (IFBW=1 kHz) | 0.009 dB rms | 0.002 dB rms |
| 10 MHz- 500 MHz (IFBW=10 kHz) ^[1] | 0.009 dB rms | 0.002 dB rms |
| 500 MHz- 4.5 GHz (IFBW=10 kHz) | 0.006 dB rms | 0.0015 dB rms |
| 4.5 GHz- 6.5 GHz (IFBW=10 kHz) | 0.006 dB rms | 0.0015 dB rms |
| Transmission and reflection trace noise phase | | |
| 9 kHz- 10 MHz (IFBW=1 kHz) | 0.09 deg rms | 0.015 deg rms |
| 10 MHz- 500 MHz (IFBW=10 kHz) ^[1] | 0.09 deg rms | 0.015 deg rms |
| 500 MHz- 4.5 GHz (IFBW=10 kHz) | 0.05 deg rms | 0.01 deg rms |
| 4.5 GHz- 6.5 GHz (IFBW=10 kHz) | 0.05 deg rms | 0.015 deg rms |

[1] 21.25MHz frequency point does not meet the specification requirements

 Stability

| Description | Specification | Typical |
|----------------|---------------|---------------|
| Magnitude | | |
| 9 kHz- 1 MHz | | ± 0.02 dB/°C |
| 1 MHz- 6 GHz | | ± 0.01 dB/°C |
| 6 GHz- 6.5 GHz | | ± 0.025 dB/°C |
| Phase | | |
| 9 kHz- 1 MHz | | ± 0.4 deg/°C |
| 1 MHz- 6 GHz | | ± 0.2 deg/°C |
| 6 GHz- 6.5 GHz | | ± 0.5 deg/°C |

 Dynamic accuracy

| Description | Specification |
|---------------------------------|-----------------|
| Relative to -10 dBm input power | |
| Magnitude | |
| 10 dBm | ± 1.9 dB |
| 0 dBm | ± 0.08 dB |
| -20 dBm | ± 0.12 dB |
| -30 dBm | ± 0.19 dB |
| -40 dBm | ± 0.25 dB |
| -50 dBm | ± 0.36 dB |
| -60 dBm | ± 0.49 dB |
| -70 dBm | ± 0.65 dB |
| -80 dBm | ± 0.95 dB |
| -90 dBm | ± 1.65 dB |
| -100 dBm | ± 2.0 dB |
| Phase | |
| 10 dBm | ± 15.6 deg |
| 0 dBm | ± 0.46 deg |
| -20 dBm | ± 0.62 deg |
| -30 dBm | ± 1.19 deg |
| -40 dBm | ± 1.25 deg |
| -50 dBm | ± 2.36 deg |
| -60 dBm | ± 2.49 deg |
| -70 dBm | ± 4.65 deg |
| -80 dBm | ± 6.95 deg |
| -90 dBm | ± 8.35 deg |
| -100 dBm | ± 10.38 deg |

Sweep time

| Start frequency: 100 kHz, Stop frequency: 6.5 GHz; IFBW: 500 kHz | | | | |
|--|--------|--------|---------|----------|
| Points | 201 | 401 | 1601 | 6401 |
| Uncorrected | 15ms | 19 ms | 43ms | 118 ms |
| 2-port cal | 30 ms | 38 ms | 86 ms | 236 ms |
| Start frequency: 100 kHz, Stop frequency: 6.5 GHz; IFBW: 100 kHz | | | | |
| Points | 201 | 401 | 1601 | 6401 |
| Uncorrected | 17 ms | 22 ms | 55 ms | 164 ms |
| 2-port cal | 34 ms | 44 ms | 110 ms | 328 ms |
| Start frequency: 100 kHz, Stop frequency: 6.5 GHz; IFBW: 10 kHz | | | | |
| Points | 201 | 401 | 1601 | 6401 |
| Uncorrected | 33 ms | 54 ms | 182 ms | 673 ms |
| 2-port cal | 66 ms | 108 ms | 364 ms | 1346 ms |
| Start frequency: 100 kHz, Stop frequency: 6.5 GHz; IFBW: 1 kHz | | | | |
| Points | 201 | 401 | 1601 | 6401 |
| Uncorrected | 193 ms | 374 ms | 1460 ms | 5784 ms |
| 2-port cal | 386 ms | 748 ms | 2920 ms | 11568 ms |

Enhanced Time Domain Analysis with TDR (SNA5000-TDR)

| Description | SNA5003X-E | SNA5006X-E |
|---|---------------|------------|
| Bandwidth | 3 GHz | 6.5 GHz |
| Input Impedance | 50 Ohm | |
| DC damage Level at test port | 35 V | |
| Maximum test port input voltage (Hot TDR Mode) | 1.5Vpp | |
| TDR stimulus | Step, Impulse | |
| TDR step amplitude | 1 mV to 5 V | |
| TDR step rise time (min) (10% to 90%) | 148.7 ps | 68.6 ps |
| TDR step response resolution in free space (min) ($\epsilon_r = 1$) | 22.4 mm | 10.4 |
| TDR impulse width (min) | 201.2 ps | 92.9 ps |
| DUT length (max) | 13.8 μ s | |
| Eye diagram data rate (max) | 2.4 Gb/s | 5.2 Gb/s |

General Information

| Description | Characteristics |
|--|--|
| Operating environment | |
| Temperature | 0 to 40°C |
| Humidity | Type tested at 20 to 80%, wet bulb temperature < 29 °C (non-condensing) |
| Altitude | 0 to 2000 m |
| Non-operating storage environment | |
| Temperature | -10°C to 60°C |
| Humidity | Type tested at 20 to 90%, wet bulb temperature < 40 °C (non-condensing) |
| Altitude | 0 to 5000 m |
| Size | W×H×D=378×284×126 mm |
| Weight | 5.4 kg |
| EMC | |
| Conducted disturbance: CISPR 11/EN 55011 | CLASS A group 1, 150 kHz-30 MHz |
| Radiated disturbance: CISPR 11/EN 55011 | CLASS A group 1, 30 MHz-1 GHz |
| Electrostatic discharge(ESD): IEC61000-4-2/EN61000-4-2 | 4.0 kV (contact), 8.0 kV (air) |
| Radio-frequency electromagnetic field Immunity: IEC 61000-4-3/EN 61000-4-3 | 10 V/m (80 MHz to 1 GHz); 3 V/m (1.4 GHz to 2 GHz); 1 V/m (2.0 GHz to 2.7GHz) |
| Electrical fast transients (EFT): IEC 61000-4-4/EN 61000-4-4 | 2 kV (AC power ports) |
| Surges: IEC 61000-4-5/EN 61000-4-5 | 1 kV (Line to line) 2 kV (Line to ground) |
| Radio-frequency continuous conducted Immunity: IEC 61000-4-6/EN 61000-4-6 | 3 V, 0.15-80 MHz |
| Voltage dips and interruptions: IEC 61000-4-11/EN 61000-4-11 | Voltage dips: 0% UT during 1 cycle; 40% UT during 10/12 cycles; 70% UT during 25/30 cycles. Voltage interruptions: 0% UT during 250 cycles |
| Safety | |
| UL 61010-1:2012/R: 2018-11; CAN/CSA-C22.2 No. 61010-1:2012/A1:2018-11. UL 61010-2-030:2018; CAN/CSA-C22.2 No. 61010-2-030:2018. | |

Front panel information

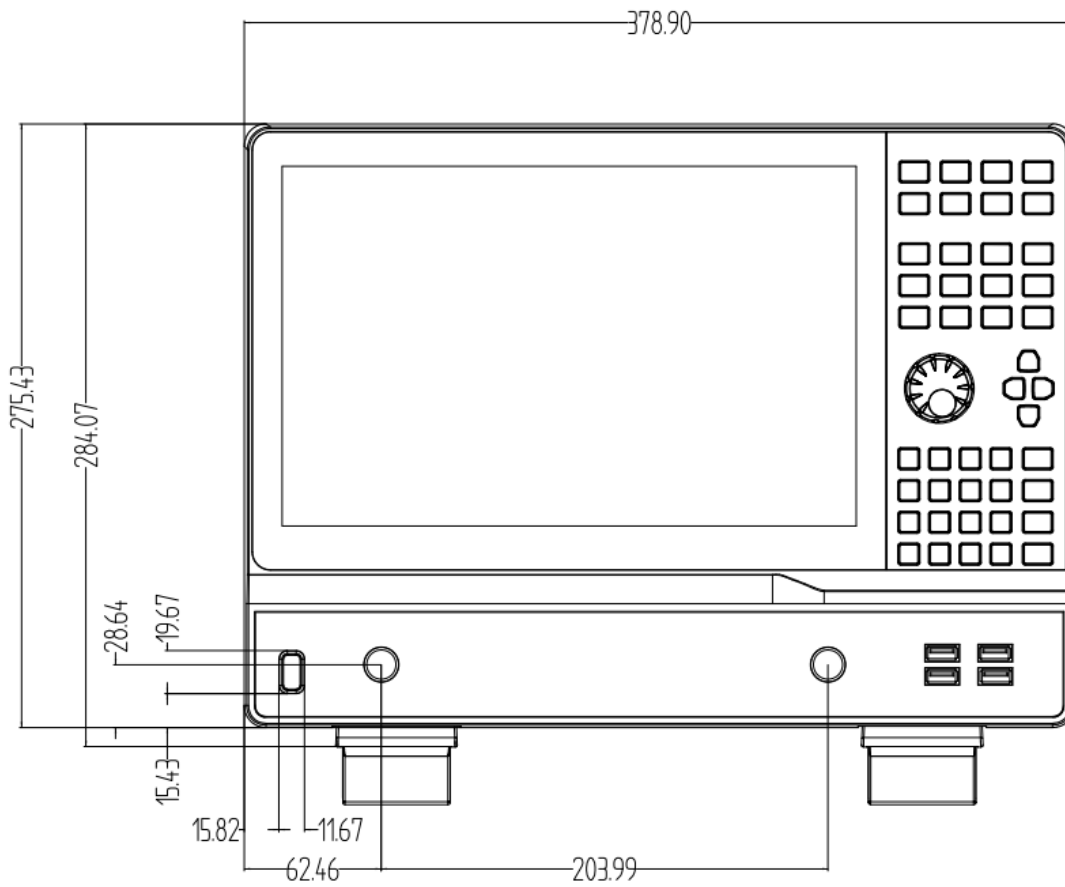
| Description | Characteristics |
|--------------------|---|
| RF connectors | Type-N, female, 50Ω |
| Damage level | +27 dBm or ±35 VDC |
| Display Resolution | 12.1 inch TFT color LCD with touch screen ; WXGA (1280 x 800) |
| USB interface | USB-A 2.0 |

Rear panel information

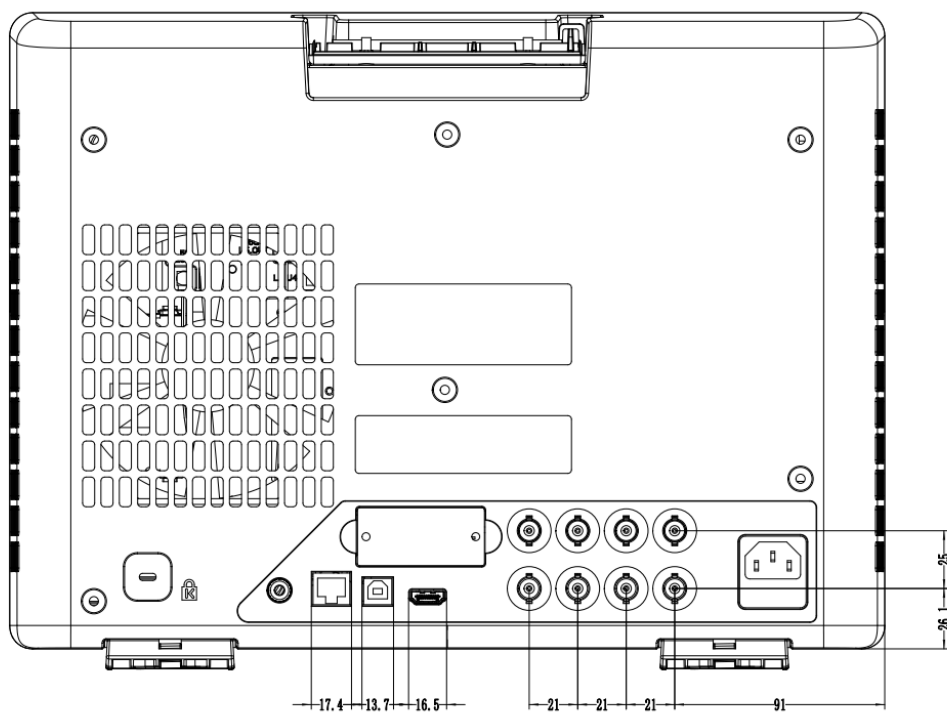
| Description | Characteristics |
|--|------------------------|
| Ext trigger input connector | |
| Type | BNC, female |
| Input level | 5V TTL |
| Ext trigger output connector | |
| Type | BNC, female |
| Max output current | 20 mA |
| Output level | 3.3V TTL |
| Ext ref-signal input connector | |
| Type | BNC, female |
| Input frequency | 10 MHz ±10 ppm |
| Input level | -3 dBm to +10 dBm |
| Input impedance | 50Ω |
| Int ref-signal output connector | |
| Type | BNC, female |
| Output frequency | 10 MHz ± 5 ppm |
| Signal type | Sinewave |
| Output level | 0 dBm ± 3 dB into 50 Ω |
| Output impedance | 50 Ω |
| Bias tee input connector | |
| Type | BNC, female |
| Max voltage | ± 35 VDC |
| Max current (no degradation RF specification) | ± 300 mA |
| Max current (damage level) | 500 mA |

| | |
|------------------------|--|
| Video output | HDMI |
| USB (USBTMC) interface | USB-B 2.0 |
| LAN | 10/100 BaseT Ethernet |
| Power | 100 ~ 240 Vrms 50/60 Hz; 100 ~ 120 Vrms 400 Hz |
| Power consumption | 2-port: 50 W (typical) |

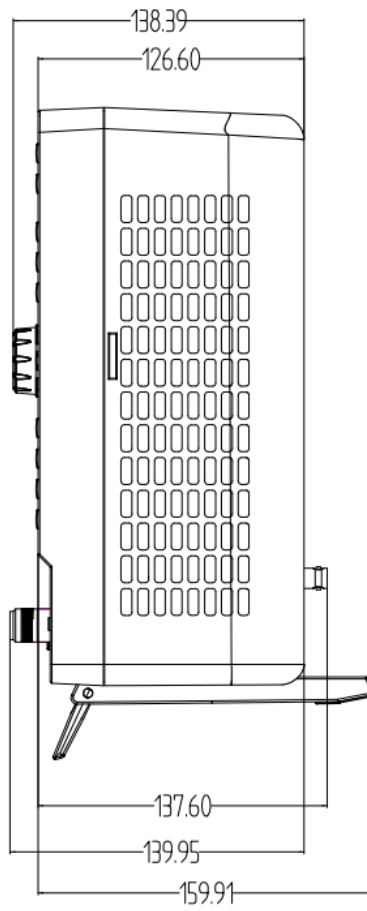
Dimensions



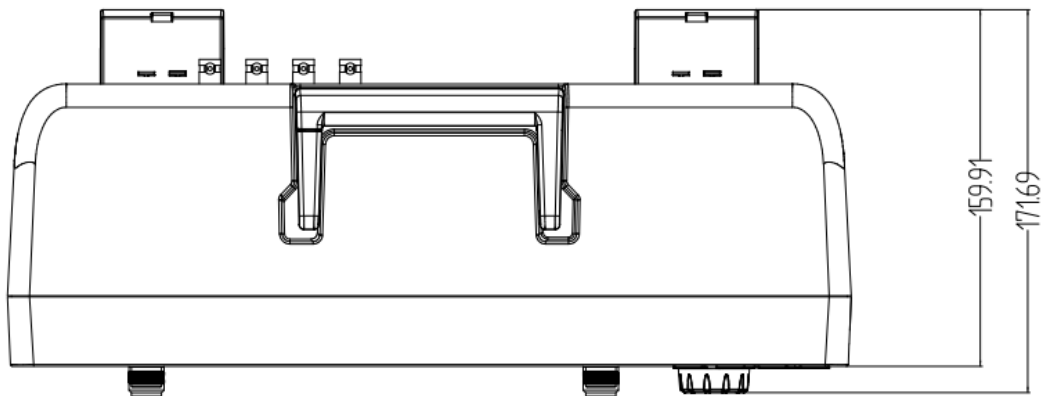
Front view



Rear panel view



Side view



Vertical view

Ordering Information

| Model | Description |
|------------|---------------------------------------|
| SNA5003X-E | 2 ports, 3G Vector Network Analyzer |
| SNA5006X-E | 2 ports, 6.5G Vector Network Analyzer |

| Standard Accessories | Quantity |
|----------------------------|----------|
| Quick-start | 1 |
| Power-cable | 1 |
| USB-cable | 1 |
| Certificate of Calibration | 1 |
| Wireless Mouse | 1 |
| Protective Cover | 1 |

| Optional Accessories | | Description | Model |
|----------------------|---|-----------------------------------|-------------|
| Hardware option | HPR option | High-performance reference source | SNA5000-HPR |
| Software option | TDA option | Time-Domain analysis | SNA5000-TDA |
| | TDR option | Enhanced Time-Domain analysis | SNA5000-TDR |
| | SA option | Spectrum analysis | SNA5000-SA |
| | AFR option | Automatic Fixture Removal | SNA5000-AFR |
| Accessories | SEM5000A Series Electronic Calibration (ECal) Modules | | SEM5000A |
| | N-type, Male, 50Ω Calibration Kit, 0-4.5GHz | | F503ME |
| | N-type, Female, 50Ω Calibration Kit, 0-4.5GHz | | F503FE |
| | N-type, Male, 50Ω Calibration Kit, 0-9GHz | | F504MS |
| | N-type, Female, 50Ω Calibration Kit, 0-9GHz | | F504FS |
| | N-type, Male, 50Ω Calibration Kit, 0-9GHz | | Y504MS |
| | N-type, Female, 50Ω Calibration Kit, 0-9GHz | | Y504FS |
| | N-type, Male and Female, 50Ω Calibration Kit, 0-9GHz | | F504TS |
| | N-type, Male and Female, 50Ω Calibration Kit, 0-18GHz | | F505TS |

| | |
|---|-------------------|
| 3.5 mm, Male, 50Ω Calibration Kit, 0-4.5GHz | F603ME |
| 3.5 mm, Female, 50Ω Calibration Kit, 0-4.5GHz | F603FE |
| 3.5 mm, Male, 50Ω Calibration Kit, 0-9GH | F604MS |
| 3.5 mm, Female, 50Ω Calibration Kit, 0-9GHz | F604FS |
| 3.5 mm, Male and Female, 50Ω Calibration Kit, 0-9GHz | F604TS |
| 3.5 mm, Male, 50Ω Calibration Kit, 0-26.5GHz | Y606MS |
| 3.5 mm, Female, 50Ω Calibration Kit, 0-26.5GHz | Y606FS |
| 3.5 mm, Female, 50Ω Calibration Kit, 0-26.5GHz | F606FS |
| 3.5 mm, Male and Female, 50Ω Calibration Kit, 0-26.5GHz | F606TS |
| 50Ω Waveguide Calibration Kit, 18-26.5GHz | KWR42A |
| N(M)-SMA(F) RF Cable DC~6 GHz,1000 mm | S06-NMSF-1M |
| N(M)-SMA(F) RF Cable DC~18 GHz,1000 mm | S18-NMSF-1M |
| 2.9 mm(M)- 2.9 mm (F) RF Cable DC~40 GHz,1000 mm | S40-29M29F-1M |
| N(M)-SMA(M) RF Cable DC~18 GHz,1000 mm | N-SMA-18L |
| N(M)-N(M) RF Cable DC~18 GHz,1000 mm | N-N-18L |
| SMA(M)-SMA(M) RF Cable DC~18 GHz,1000 mm | SMA-SMA-18L |
| SMA(M)-SMA(M) RF Cable DC~26.5 GHz,1000 mm | SMA-SMA-26L |
| SMA(F)-SMA(M) RF Cable DC~26.5 GHz,1000 mm | SMAF-SMA-26L |
| NMD 3.5 female-NMD 3.5 Male DC-26.5 GHz, 635 mm | V26-N35MN35F-25IN |
| NMD 3.5 female-APC 3.5 female DC-26.5 GHz, 635 mm | V26-N35FA35F-25IN |
| USB-GPIB Adapter | USB-GPIB |
| RF Demonstration Board | SNA-TB01 |
| Adjustable Differential TDR Probe DC-18 GHz | ADP-18 |
| Adjustable Differential TDR Probe DC-26.5 GHz | ADP-26 |
| Adjustable Single-end TDR Probe DC-18 GHz | ASP-18 |
| Adjustable Single-end TDR Probe DC-26.5 GHz | ASP-26 |



About SIGLENT

SIGLENT is an international high-tech company, concentrating on R&D, sales, production and services of electronic test & measurement instruments.

SIGLENT first began developing digital oscilloscopes independently in 2002. After more than a decade of continuous development, SIGLENT has extended its product line to include digital oscilloscopes, isolated handheld oscilloscopes, spectrum analyzers, function/arbitrary waveform generators, RF/MW signal generators, vector network analyzers, digital multimeters, DC power supplies, electronic loads and other general purpose test instrumentation. Since its first oscilloscope was launched in 2005, SIGLENT has become the fastest growing manufacturer of digital oscilloscopes. We firmly believe that today SIGLENT is the best value in electronic test & measurement.