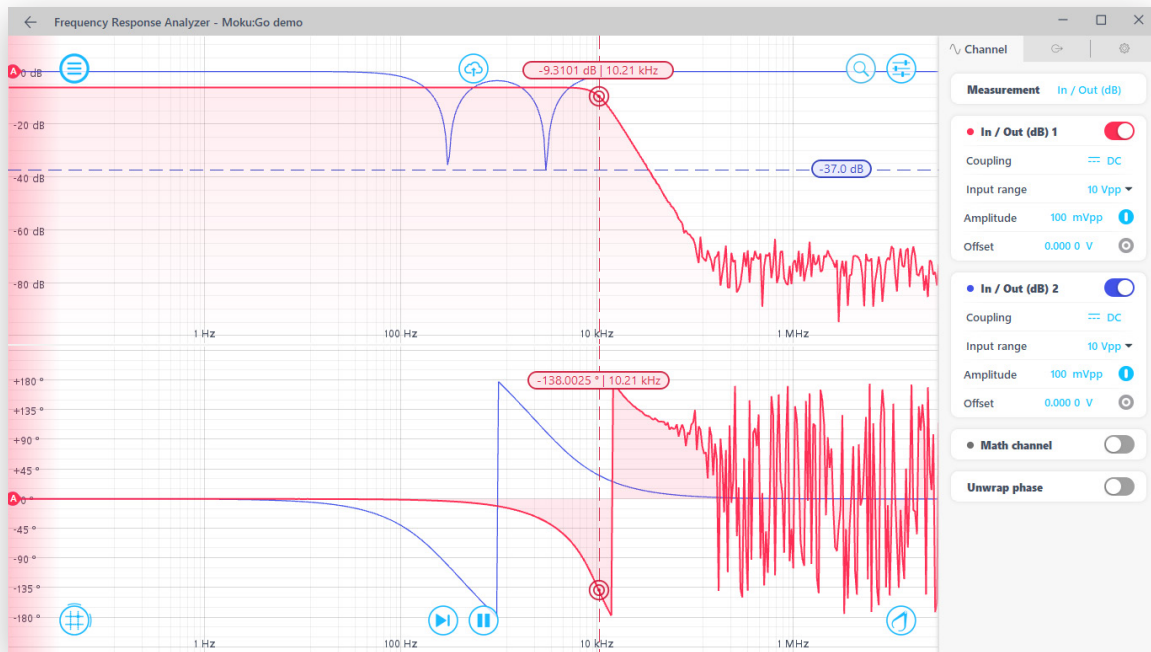




20 MHz Frequency Response Analyzer



The Moku:Go Frequency Response Analyzer enables you to measure the frequency response of a system in both magnitude and phase using a swept sine output from 10 mHz to 20 MHz. Select from between 32 and 8192 points per sweep and configure settling and averaging times to balance total sweep duration and signal-to-noise ratio.



Frequency Range
Up to 20 MHz

Input Impedance
1 M Ω

Averaging time
1 μ s to 10 s

Sweep
Linear/Logarithmic

Output Voltage Range
10 Vpp

Harmonics Detection
Up to 15th

Features

- Linear or logarithmic swept sine output
- Math channel to add, subtract, multiply, divide, or apply an arbitrary calculation to response functions as they are acquired
- Use cursors and markers to measure exact values on the plots
- Measurement averaging and settling times are highly configurable
- Saturation detection and avoidance with Dynamic Amplitude drive
- Probe two systems simultaneously, or one system at two points
- Demodulate up to the 15th harmonic

Specifications

- Frequency range: 10 mHz to 20 MHz
- Averaging time: 1 μ s to 10 s
- Settling time: 1 μ s to 10 s
- Sweep points: 32, 64, 128, 256, 512, 1024, 2048, 4096, 8192
- Output voltage range: 10 Vpp
- Input impedance: 1 M Ω
- Input voltage range: 10 Vpp or 50 Vpp
- Measurement units: dB, dBm, dBVpp, dBVrms
- Noise floor: up to -80 dB

Applications

- Impedance measurement
- Capacitance/inductance measurement
- Stability analysis
- Power supply analysis
- EMI filter characterization