



SUCCESS STORY

Multipath Emulator for Wi-Fi 6E Performance Testing

How device makers are improving capacity, automating testing, and getting to market faster

Spectrum Control teamed with a leading chipset maker needing to perform full functional verification and to automate their testing efforts. The result: our new Multipath Emulator for Wi-Fi 6E performance testing, now available to device makers, service providers, and companies seeking to take full advantage of the spectrum availability, speed and potential of Wi-Fi 6E.

Automated, Repeatable, Reliable

Device makers and service providers hope to leverage Wi-Fi 6E, with its 1 Gbps speed and low latency. And to do so requires effective, repeatable test solutions. This ensures your products will achieve performance requirements and launch on-time and on-budget.

Spectrum Control's new Weinschel brand Wi-Fi 6E Multipath Emulator simulates true indoor multipath conditions for Wi-Fi MIMO device testing, making it ideal for MIMO conductive testing. Conductive testing is cost-effective and highly repeatable, helping makers of chipsets, access points and service providers to test under real world conditions and meet their performance requirements.

Simulates true indoor multipath conditions

Spectrum Control's multipath emulator includes 4 individual channels and accurately models the conditions described by the TGn-B channel model, as detailed in IEEE 802.11-03/940r1. Each channel has a bypass switch, thus creating the conditions described in the TGn-A channel model as well. Additionally, the system includes a programmable phase shifter, allowing the user to precisely tune the frequency response.



Novel architecture delivers superior performance versus competitors.



Spectrum Control's new multipath emulator, along with its Weinschel brand attenuators, terminations, butler matrices and testing solutions enable rapid, affordable roll-out of 5G and Wi-Fi products and services.

True Multipath Conditions

Ideal for MIMO conductive testing. The new multipath emulator simulates conditions based on the TGn-A/B channel models. It delivers accuracy and repeatability of the channel model plus best in class low-latency and low insertion loss. Ensuring that new wireless devices and networks work first time, every time.

Feature Rich Test Solution

- Best in class insertion loss (13 dB) and roll off between taps (6.5 dB)
- Simulates TGn-A and B Channel models
- 4 independent channels with 2 clusters per channel
- Integrated programmable phase shifter/delay line