Passive Intermodulation Analyzer Incorporates Distance to PIM Technology

Anritsu Company introduced the MW8219A PIM Master, a field test solution that can locate the source of passive intermodulation (PIM), whether it is at the base station or in the surrounding environment. Covering the PCS and AWS cellular frequency ranges, the analyzer provides field personnel with a test system that can help ensure optimum network performance and also locate PIM faults before intermodulation distortion adversely affects signal transmission. PIM Master has been designed to work with Anritsu's S332E/S362E Site Master, MS2712E/MS2713E Spectrum Master, and MT8212E/MT8213E Cell Master handheld analyzers, as well as the MT8221B/MT8222A/MT8222B BTS Master handheld analyzers. Field personnel can use the PIM Master to generate two high-power tones in the transmit band of a base station, and use any of the handheld analyzers to measure the 3rd, 5th, or 7th order intermodulation products in the receive band that travel down the same cable. Using the GPS option available on all the analyzers, the location of the measurement can be recorded as well. The device features 40 W testing, which allows the PIM Master to locate intermittent failures due to light corrosion, high-traffic loading, or changing weather conditions. It also permits users to find faults in a multicarrier antenna system or discover microscopic arcing in connectors.

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