

S E R V I C E N O T E

SUPERSEDES: None

E4411A Spectrum Analyzer (Model Number ESA-L1500A)

Serial Numbers: US36450101 / US99999999

Tracking Generator Harmonic Spurious Output Specification Change

To Be Performed By: Agilent-Qualified Personnel or Customer

Situation:

Variations in the manufacturing process of the AT-220 step attenuator, which is used on the E4411A Tracking Generator, have necessitated a specification change in order to eliminate extremely low yields. Units shipped prior to serial number US38432313 met the original specification when shipped, but they will no longer be supported to meet the older specification.

Solution / Action:

The specification for the "Tracking Generator Harmonic Spurious Outputs" performance verification test has changed.

The old specification for harmonic spurs was as follows:

OPTION	FREQUENCY	CURRENT SPEC
1DN	9KHz to 1.5GHz	< -25dBc @ 0dBm output
1DQ	1MHz to 1.5GHz	< -25dBc @ 42.76 dBmV output

Continued

DATE: February 1999

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:		
INFORMATION ONLY		
AUTHOR:	ENTITY:	ADDITIONAL INFORMATION:
RA	5320	

The new specification, listed below, is now a split specification:

OPTION	FREQUENCY	NEW SPEC (split)
1DN	9KHz to 20MHz	< -20dBc @ 0dBm output
	20MHz to 1.5GHz	< -25dBc @ 0dBm output
1DQ	1MHz to 20MHz	< -20dBc @ 42.76 dBmV output
	20MHz to 1.5GHz	< -25dBc @ 42.76 dBmV output

This change is retroactive and therefore applies to older E4411A instruments as well as newer ones.

This specification has been incorporated into the latest "ESA-L1500A Spectrum Analyzer User's and Cal Guide" as well as the STE9000 E4411A Performance Verification software.