									E44	11A	-17
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							SUPE	ERSED	ES: Non	е	
E4411A Spectrum Analyzer (Model Number ESA-L1500A)											
Serial Numbers: US36450101 / US38452514											
(1	(Exceptions: US38452344, US38452372, US38452373, US38452374, US38452424, US38452432, US38452462, US38452463, US38452469, US38452489, US38452502, US38452504, US38452507, US38452509, US38452511, US38452512, US38452513)										
	Spec Changes for TG Operating Temperature, 75 ohm Gain Compression, 75ohm DANL, and Residual FM										
Т	To Be Performed By: Agilent-Qualified Personnel or Customer										
P	Parts Requ	ired:									
P	P/N		Desc	ription	l		1	Quanti	ty		
E	24411-9005	4	ESA	-L1500)A User's	s and Cal C	Guide	1			
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ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICA		
AUTHOR:	ENTITY:	ADDITIONAL INFORMATION:
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Situation:

In an effort to eliminate extremely low yields, it has become necessary to relax certain specifications. These specifications are

- 1) Gain Compression for 75 ohm units
- 2) DANL for 75 ohm units
- 3) Residual FM
- 4) Operating temperature range for Tracking Generators specs

This change is retroactive and therefore applies to older E4411A instruments as well as newer ones. Units shipped within the serial number range listed above meet their original specification when shipped, but they will no longer be supported to meet their original specifications after they are calibrated or repaired.

The specification changes are as follows:

TG Operating Temperature

The Operating temperature range for Tracking Generators to meet their specifications has changed from:

0 to 55 degrees Celcius

to:

20 to 30 degrees Celcius

Gain Compression for 75 ohm units

The specification for the 1 dB Gain Compression point changed so that the input power level at the mixer was decreased from:

54 dBmV

to:

46.75 dBmV

DANL for 75 ohm units

The upper limits change from:					
	1 MHz to 500 MHz Range	-65 dBmV			
	500 MHz to 1.0 GHz Range	-61 dBmV			
	1.0 GHz to 1.5 GHz Range	-55 dBmV			
to:					
	1 MHz to 500 MHz Range	-65 dBmV (stays the same)			
	500 MHz to 1.0 GHz Range	-60 dBmV			
	1.0 GHz to 1.5 GHz Range	-53 dBmV			

Residual FM

The upper limit for Residual FM changes from: 100 Hz to:

150 Hz

Solution / Action:

The new ESA-L1500A User's and Calibration Guide has been changed to reflect the specification changes. The STE-9000 software has also been modified. If the performance verification routines are being performed manually, then the new procedures should be used (ESA-L1500A User's and Calibration Guide, p/n E4411-90054).

In addition, Tracking Generator performance verification tests must be performed at room temperature (20 to 30 degrees Celcius).