

MODIFICATION RECOMMENDED –  
CORRECTS MANUFACTURING OR DESIGN DEFECTS

**8902A-16**

# S E R V I C E N O T E

Supersedes:  
None

## 8902A Measuring Receiver

**Serial Numbers: 3920A0000/3920A9999**

### **Unstable TRFL measurements at 10MHz**

**To Be Performed By: Agilent-Qualified Personnel or Customer**

#### **Parts Required:**

<b>P/N</b>	<b>Description</b>	<b>Qty.</b>
08902-60141	Cable, Coax (W43 A16J2 to AT1J1, All units) Cable (W55 A17J3 to S4J4, Option 030 ONLY)	2
8120-5780	Cable, Coax (W37 A17J2 to AT1J2, All units) Cable (W54 A19J3 to S4J5, Option 030 ONLY)	2

## ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:				
<b>MODIFICATION RECOMMENDED</b>				
ACTION CATEGORY:	IMMEDIATELY X ON SPECIFIED FAILURE AGREEABLE TIME	STANDARDS:	LABOR: 1.0 Hour	
LOCATION CATEGORY:	X CUSTOMER INSTALLABLE ON-SITE X SERVICE CENTER	SERVICE INVENTORY:	RETURN X SCRAP SEE TEXT	USED PARTS: X SCRAP SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	AGILENT RESPONSIBLE UNTIL: June 2004		
AUTHOR: DS	PRODUCT LINE: 13			
ADDITIONAL INFORMATION:				

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**Situation:**

A problem has been noted with certain Measuring Receivers (serial number prefix range noted above) while performing Tuned RF Level (TRFL) measurements on a 10.000 MHz signal from approximately 0 to -30 dBm. Failure symptoms appear as unstable readings which drift approximately  $\pm 0.4$  dB. The problem is caused by incorrectly manufactured coax cables which have defective ground crimps. This will cause RF feedthru into the A17 Mixer and A16 RF Detector assemblies. RF Power measurements with the broadband power meter are not affected.

**Solution/Action:**

If TRFL measurements are not stable at 10 MHz and levels noted above, replace cables W43 and W37. These two cables connect the RF Attenuator (AT1) to the RF Detector (A16) and Input Mixer (A17) assemblies. Re-calibration is not required.

**NOTE: If the Measuring Receiver has Option 030 with Opt 032-37 (High Selectivity Measurements) replacement of coax cables W55 and W54 is also recommended. These cables route the signal from switch S4 to the Input Mixer (A17) and LO Divider (A19) assemblies.**