

S E R V I C E N O T E

SUPERSEDES: NONE

8901B Modulation Analyzer

Serial Numbers: 3749A06118/3749A06196

RF Frequency Tuning and Level Measurement Errors

Duplicate Service Notes: 8902A-15

To Be Performed By: Agilent-Qualified Personnel

Parts Required:

P/N	Description	Quantity
0161-0897	Capacitor, 0.02uF/100V	10

Situation:

A problem has been noted with certain Modulation Analyzers (serial numbers noted above) while performing input frequency tuning and measurements. Symptoms include drifting and unstable tuning, or intermittent Error 01 indications. RF Power measurements with the broadband power meter are not affected. The problem is caused by defective decoupling capacitors on the A22 Low Frequency VCXO assembly 08901-60007. The LFVCXO stabilizes the LO (Local Oscillator) which is used to downconvert the input signal to an IF using the RF mixer.

Continued

DATE: November 2001

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:			
MODIFICATION RECOMMENDED			
ACTION CATEGORY:	☐ IMMEDIATELY ☒ ON SPECIFIED FAILURE ☐ AGREEABLE TIME	STANDARDS: LABOR 1.5 Hours	
LOCATION CATEGORY:	☐ CUSTOMER INSTALLABLE ☐ ON-SITE ☒ SERVICE CENTER	SERVICE INVENTORY: ☐ RETURN ☐ SCRAP ☒ SEE TEXT	USED PARTS: ☐ RETURN ☒ SCRAP ☐ SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE		
AUTHOR: DS		ENTITY: 1000	
AGILENT RESPONSIBLE UNTIL: November 2003			
ADDITIONAL INFORMATION: Service inventory was checked and reworked by mid-October 2001			



Solution / Action:

Identify and replace the original square, red capacitors (0160-3459), with 0161-0897 (small yellow body). There are a total of 10 parts which require replacement, C3, C5-7, C10-11, C14, C19, C23, and C25. Refer to the included component locator. Re-calibration is not required. Assembly-level replacement is not covered by this service note.