

MODIFICATION RECOMMENDED

N6841A-01

S E R V I C E N O T E

N6841A Modification
on
Recommended
N6841A-01
High band
amplifier gain
could degrade

Supersedes:
NONE

N6841A - RF Sensor

Serial Numbers: US49150101 to US50310599

High band amplifier gain could degrade over time.

Parts Required:

P/N	Description	Qty.
1827-2689	Microwave Amplifier	1
0699-6857	Resistor-Fixed 61.9 Ohm	2

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:		
MODIFICATION RECOMMENDED		
ACTION CATEGORY: X	ON SPECIFIED FAILURE AGREEABLE TIME	STANDARDS LABOR: 1.0 Hours
LOCATION CATEGORY:	<input type="checkbox"/> CUSTOMER INSTALLABLE <input type="checkbox"/> ON-SITE <input type="checkbox"/> SERVICE CENTER <input type="checkbox"/> CHANNEL PARTNER <input checked="" type="checkbox"/> FACTORY	SERVICE INVENTORY: <input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AVAILABILITY: PRODUCT'S SUPPORT LIFE	USED PARTS: <input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT	
AUTHOR: DF	NO CHARGE AVAILABLE UNTIL: SUPPORT LIFE	
PRODUCT LINE: BK		
ADDITIONAL INFORMATION: RETURN TO FACTORY ONLY		

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Situation:

As part of its quality monitoring program, Agilent Technologies has discovered that a high band amplifier (1.8 to 6 GHz) in the N6841A can suffer from degraded gain over time due to excessive bias current.

Solution/Action:

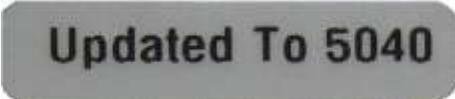
Return your N6841A to the factory to correct the high band amplifier problem. Agilent recommends that the N6841AF-UG1 upgrade be ordered at the time of the repair.

N6841AF-UG1 upgrade adds the following enhancements in addition to the amplifier repair:

- Increased processor memory from 256 MBytes to 1 GByte to provide longer captures.
- Optimized DMA to improve data transfer speeds in the RF sensor and improved operation on slow networks.
- Improved HW FFT which enables gapless signal search & improved signal search speeds
- FFT averaging in RF sensor to increase performance.
- New RF cables for better RF performance.
- Simplified networking: fewer ports and easier setup when sensors behind VPN or firewalls.
- New firmware that supports enhanced geo-location algorithms and faster signal processing.

How can you tell if your unit has already been updated?

If your N6841A has the sticker shown below (**Updated to 5040**), your N6841A has been updated and the amplifier gain problem has been corrected.



Updated To 5040

How can you tell if your unit has already been upgraded with N6841A-UG1 enhancements?

If your N6841A has the sticker shown below (**N6841AF** with your serial number) or has a serial number greater than US50310599, your N6841A has been upgraded.

