

MODIFICATION RECOMMENDED

N5183A-01

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

Supersedes:  
None

**N5183A MXG Microwave Analog Signal Generator**

**Serial Numbers:**

**MY47420048,  
MY47420052,  
MY47420054 thru MY47420076,  
MY47420078 thru MY47420084,  
MY47420088 thru MY47420090,  
MY47420092,  
MY47420094 thru MY47420097,  
MY47420100 thru MY47420102,  
MY47420104 thru MY47420105,  
MY47420107,  
MY47420109 thru MY7420116,  
MY47420118 thru MY47420123,  
MY47420127 thru MY47420131.**

**“Batch related component issue may result in a non-functioning instrument.”**

**ADMINISTRATIVE INFORMATION**

|                                 |  |   |  |
|---------------------------------|--|---|--|
| SERVICE NOTE CLASSIFICATION:    |  |   |  |
| <b>MODIFICATION RECOMMENDED</b> |  |   |  |
| ACTION CATEGORY:                | <input type="checkbox"/> ON SPECIFIED FAILURE<br><input checked="" type="checkbox"/> AGREEABLE TIME  | STANDARDS   | LABOR: 3.00 Hours  |
| LOCATION CATEGORY:              | <input checked="" type="checkbox"/> CUSTOMER INSTALLABLE<br><input type="checkbox"/> ON-SITE<br><input checked="" type="checkbox"/> SERVICE CENTER<br><input type="checkbox"/> CHANNEL PARTNER | SERVICE INVENTORY: <input type="checkbox"/> RETURN<br><input type="checkbox"/> SCRAP<br><input type="checkbox"/> SEE TEXT | USED PARTS: <input type="checkbox"/> RETURN<br><input type="checkbox"/> SCRAP<br><input type="checkbox"/> SEE TEXT |
| AVAILABILITY:                   | 7/1/2010   | NO CHARGE AVAILABLE UNTIL: 7/1/2010   |  |
| AUTHOR:                         | DMc  | PRODUCT LINE: 15  |  |
| ADDITIONAL INFORMATION:         |  |   |  |

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Rev. 14



**Parts Required:**

| P/N  | Description | Qty. |
|------|-------------|------|
| None |             |      |

**Situation:**

A potential reliability concern due to a batch related component issue has been identified for some components used in the N5183A. The components may cause the instrument to fail to power on or not function properly. The problem is only a reliability issue not a safety issue.

Only instruments with the serial numbers listed may have suspect assemblies. The suspect components were loaded on the A3 RF assembly and/or an A7 Micro-Decks. The serial numbers for the A3 RF Assembly and the A7 Micro-Deck that have suspect parts are:

A3 RF Assembly with serial numbers 23080500002 thru 23081200045

A7 Microwave Decks with serial numbers 23080400002 thru 23081400031

**Solution/Action:**

1. Check the rear panel serial tag for a small black dot (see picture). If a dot is present the instrument has already been checked and no further action required. If the dot is missing proceed to step 2.



Inspection dot



2. Check the RF Assembly (RF) and Micro-Deck (MW) serial numbers by pressing: Utility > Instrument Info > Installed Board Info

## Serial number

| FREQUENCY                                  |             | AMPLITUDE   |      | Board Info |     |                  |      |
|--|-------------|-------------|------|------------|-----|------------------|------|
| 2.000 000 000 00 GHz                       |             | 0.00 dBm    |      |            |     |                  |      |
| <b>Installed Board Information</b>         |             |             |      |            |     |                  |      |
| Name                                       | Part#/Rev#  | Serial#     | HWID | OFR        | PIC | Opts             | Extr |
| RF   | N5180-60077 | 23070400023 | 0002 | 000        | 000 | 0002             | 0000 |
| Analog FPGA                                | 64          |             |      |            |     |                  |      |
| PCI FPGA                                   | 50          |             |      |            |     |                  |      |
| Ref FPGA                                   | 36          |             |      |            |     |                  |      |
| Synth FPGA                                 | 225         |             |      |            |     |                  |      |
| MW   | N5180-63032 | 23071100015 | 0002 | 000        | 000 | 0000             | 0000 |
| PCI FPGA                                   | 31          |             |      |            |     |                  |      |
| CPU  | N5180-60067 | 02641000153 | 0000 | 000        |     | 0000             | 0000 |
| *** PROTO CODE ** NOT FOR CUSTOMER USE *** |             |             |      |            |     | 06/04/2008 06:53 |      |

- If the RF (N5180-60077) has a serial number within the following range, go to step 6.  
RF serial number range: 23080500002 thru 23081200045
- If the MW (N5180-63032) has a serial number within the following range, go to step 6.  
MW serial number range: 23080400002 thru 23081400031
- If neither of the RF or MW have serial numbers that fall within the ranges listed, using a permanent black marker place a dot on the serial tag as shown in step 1. The instrument is ready to be put back into use.
- If either or both RF and/or MW serial numbers fall within the range of serial numbers listed, the instrument needs to be returned to an Agilent for inspection and repair.

**Contacting Agilent:**

If you need to return an instrument for service, contact either your Field Engineer or go to <http://www.agilent.com/find/assist> for additional information. Also, in the problem description indicate the instrument is being returned for service note N5183A-01.

**Note:**

In most cases the repair can be done without affecting the instrument calibration and the cal due date will not have changed.