

MODIFICATION RECOMMENDED

N5242AS-01

S E R V I C E N O T E

Supersedes:
None

N5242AS PNA Series Microwave Network Analyzers

Serial Numbers:

Prefix No.	SG4842...	SG4932...	SG4942...	MY5007...	US4802...
Suffix No.	0109 to 0110	1100 to 1103	0101 to 0102	1004 to 1008	0216 to 0217
	0112	--	--	--	--

Possible faulty N5242AS performance due to defect in microcircuit assembly.

Parts Required:

P/N	Description	Qty.
5087-7315	Microcircuit Cobra Bridge Exchange	up to 5
5087-7716	Microcircuit Kailua Bridge Exchange	0 to 1

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION: MODIFICATION RECOMMENDED		
ACTION CATEGORY: ON SPECIFIED FAILURE		STANDARDS LABOR: 5.5 Hours (includes 4 hours of calibration time)
LOCATION CATEGORY: X ON-SITE X SERVICE CENTER X CHANNEL PARTNER	SERVICE INVENTORY: N/A	USED PARTS: RETURN
AVAILABILITY: Through August 31, 2013	NO CHARGE AVAILABLE UNTIL: September 1, 2013	
AUTHOR: MF	PRODUCT LINE: WN	
ADDITIONAL INFORMATION: This service note was released Sept 2010. PNA models affected: E8361C, E8362C, E8362CS, E8362CH85, E8363C, E8363CS, E8364C, E8364CS, N5230A, N5230C, N5230CS, N5241A, N5241AS, N5242A, N5242AS, and N5242AH85. This Service Note to be reevaluated after August 31, 2013.		

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Situation:

There is a possibility of faulty PNA performance because of a defect in microcircuit assembly. The assembly defect has been fully resolved and Agilent is committed to replacing all affected microcircuits as soon as possible.

Actions Required:

- If any of the following **5087-7315** microcircuits fail in your PNA, replace ALL with the microcircuit indicated.

Options	Reference Designator	Description	Replacement Microcircuit
All	A25, A26, A27, and A28	Test Port Bridge	5087-7315
224 or 423	A50	Combiner	

- **Option 029 only:** Reference designator A54, described as the Test Port 2 Bridge, is either the 5087-7315 or the 5087-7729 microcircuit. If either fails, replace it with the 5087-7716.
- Return the defective components using the exchange process.
- Email scott_stewart@agilent.com or support_ctd-soco@agilent.com, providing the instrument model and serial number along with part numbers and quantities of components that were replaced.

NOTE: Refer to the PNA Service Guide for instructions on removing/replacing microcircuits. To view this Service Guide information, use the following steps:

1. Go to <http://www.agilent.com>.
2. Enter your PNA model number (Ex: N5241A) in the **Search** box and click **GO**.
3. Scroll down to the heading **Manuals & Guides** and click on the title/hyperlink for the Service Guide. If you don't find your Service Guide listed on the Web page that is displayed initially, click on the **More** hyperlink.
4. When the PDF of the Service Guide is displayed, look at the bookmarks in the left column. Expand the Contents section by clicking on the plus sign next to its bookmark.
5. Scroll through the Contents section bookmarks to locate "Repair & Replacement Procedures."
6. Click on the title/hyperlink for the applicable procedure.
7. Follow the instructions of the selected procedure. The PNA contains extremely sensitive components that can be ruined if mishandled. Follow instructions carefully when making cable connections, especially wire harness connections.