

INFORMATION ONLY – DOES NOT COMMUNICATE
A MODIFICATION OR SAFETY CONDITION

4396B-15

S E R V I C E N O T E

Supersedes:
None

Agilent 4396B RF Network/Spectrum/Impedance Analyzer

Serial Numbers: See Solution / Action

New A3A1 and A3A2 replacement boards to fix signal source problems

New A3A1 ALC and A3A2 Second LO boards are set up to fix some problems that occasionally arise when the 4396B is operated in a high temperature environment. When the A3A1 and/or A3A2 boards need to be replaced for repair, 04396-66523 and 04396-66533 (or 04396-69533) board assemblies should be used in place of 04396-66503 and 04396-66513.

Parts Required: See Solution / Action

To Be Performed By: Agilent-Qualified Personnel

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:

INFORMATION ONLY

AUTHOR: HH PRODUCT LINE: WN

ADDITIONAL INFORMATION: No extended warranty applied.

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Situation:

The 4396B RF Network/Spectrum/Impedance Analyzers with specified serial numbers may exhibit one or some of the following symptoms when being operated at ambient temperature above typically 35°C (95°F).

- (1) Error message “PLL UNLOCKED” is displayed.
- (2) Source output stops. “ALC TEST FAILED” is displayed at internal test 16: A3A1 ALC.
- (3) Spurious is generated at frequencies which are 21.42 MHz lower than test frequencies. (Note: If a large spurious is detected by the internal test, “ALC TEST FAILED” is displayed.)

New A3A1 ALC (04396-66523) and A3A2 Second LO (04396-66533) boards are set up to fix the above problems.

Solution/Action:

For serial numbers JP1KE00101 through JP1KE01271, MY43100101 through MY43100272, MY43100274 through MY43100427, MY43100429, MY43100431 through MY43100433, MY43100436, MY43100438, MY43100442 through MY43100444, MY43100451 through MY43100454, MY43100457, MY43100469, MY43100471 and MY43100474:

When replacing the A3A1 or A3A2 board for repair, replace both A3A1 and A3A2 with new boards (or its rebuilt exchange board) shown in the table below.

Note: The above serial numbers are based on 4396B shipment data before August 28, 2006. For the specified serials between MY43100429 and MY43100474, some of the units may have 04396-66523 and 04396-66533 boards.

For serial numbers MY43100273, MY43100428, MY43100430, MY43100434, MY43100435, MY43100437, MY43100439 through MY43100441, MY43100445 through MY43100450, MY43100455, MY43100456, MY43100458 through MY43100468, MY43100470, MY43100472, MY43100473, MY43100475 and above:

When replacing the A3A1 or A3A2 board for repair, replace only the faulty board with new board (or its rebuilt exchange board) shown in the table below.

Board assembly name	Part number of old board	Part numbers of the recommended boards	
		Part number of new board	Part number of rebuilt-exchange board
A3A1 ALC	04396-66503	04396-66523	None
A3A2 Second LO	04396-66513 04396-69513 (rebuilt exchange)	04396-66533	04396-69533

The old boards (04396-66503, 04396-66513 and 04396-69513) should no longer be used for repair.