

# Modification Recommended Service Note

Supersedes:  
NONE

## N4694D option ODC - DC to 67 GHz Electronic Calibration Module (ECal)

Serial Numbers: See Table 1  
Manufacturing ID Number: N/A

### The Problem –

On certain N4694D units with Option ODC, Reflection Tracking may exceed the specification by 0.05 dB at frequencies below 200MHz when measuring high reflective devices.

### Parts Required:

None

#### ADMINISTRATIVE INFORMATION

ACTION	<input type="checkbox"/> ON SPECIFIED FAILURE	STANDARDS			
CATEGORY:	<input checked="" type="checkbox"/> AGREEABLE TIME	LABOR:	3.5 Hours		
LOCATION	<input checked="" type="checkbox"/> SERVICE CENTER	SERVICE:	<input type="checkbox"/> RETURN	USED	<input type="checkbox"/> RETURN
CATEGORY:	<input type="checkbox"/> ON-SITE (active On-site contract required)	INVENTORY:	<input type="checkbox"/> SCRAP	PARTS:	<input type="checkbox"/> SCRAP
	<input type="checkbox"/> CHANNEL PARTNERS		<input type="checkbox"/> SEE TEXT		<input type="checkbox"/> SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	NO CHARGE AVAILABLE UNTIL:	2 Sept 2022		
	<input checked="" type="checkbox"/> Calibration Required	PRODUCT LINE:	PLWN		
	<input type="checkbox"/> Calibration NOT Required	AUTHOR:	CT		

ADDITIONAL INFORMATION:  
Affect N4694D with option ODC only

**Situation:**

It was identified that certain units of N4694D with option 0DC were affected by an error in the calibration algorithm. For the units affected by this calibration error, the Reflection Tracking may exceed the specification by 0.05 dB at frequencies below 200MHz. The error would only be apparent when measuring highly reflective devices at frequencies below 200MHz. Recalibration at Keysight's service center will resolve the issue and ensure optimized and accurate data is loaded into the unit. If your application does not involve taking any measurements within the impacted frequency range on highly reflective devices, you can continue to use the ECal unit with its currently characterized data. At your next calibration cycle, the unit will be recharacterized and the issue will be resolved.

**Solution/Action:**

1. Return the ECal unit to the nearest Keysight service center for re-calibration.
2. A new calibration report will be generated.

**Table 1 Serial Number**

<b>Serial Number</b>			
MY59410116	MY59410268	MY59410349	MY59410443
MY59410117	MY59410272	MY59410367	MY59410444
MY59410170	MY59410276	MY59410369	MY59410460
MY59410189	MY59410279	MY59410370	MY59410461
MY59410208	MY59410280	MY59410376	MY59410480
MY59410217	MY59410289	MY59410386	MY59410481
MY59410221	MY59410292	MY59410387	MY59410483
MY59410235	MY59410299	MY59410392	MY59410498
MY59410236	MY59410303	MY59410393	MY59410500
MY59410238	MY59410307	MY59410397	MY59410506
MY59410244	MY59410310	MY59410398	MY59410507
MY59410246	MY59410312	MY59410406	MY59410511
MY59410251	MY59410340	MY59410416	SG59410102
MY59410260	MY59410346	MY59410418	SG59410103
MY59410266	MY59410347	MY59410419	

**Revision History:**

Date	Service Note Revision	Author	Reason for Change
2 Sep 2021	01	Lam CT	As Published
1 Mar 2023	02	Lam CT	Update Labor Hour

