

8481A-10

Modification Recommended Service Note

Supersedes:
NONE

8481A- Power Sensor, 10 MHz to 18 GHz, -30 to +20 dBm

Serial Numbers: "MY54460003, MY55050001, MY55050002, MY55260003, MY55260004, MY55410002, MY55410003, MY56060002, MY56060003, MY56060004, MY56120002, MY56120003, SG55260003, SG55260004"

The Problem:

In the Measurement report of 8481A, the Reference Calibration factor at 50MHz stated is inconsistent with the 50MHz Calibration Factor listed in the table.

Parts Required:

P/N Description Qty.

NONE

ADMINISTRATIVE INFORMATION

ACTION CATEGORY:	<input checked="" type="checkbox"/> ON SPECIFIED FAILURE <input type="checkbox"/> AGREEABLE TIME	STANDARDS LABOR:	1 Hours		
LOCATION CATEGORY:	<input type="checkbox"/> CUSTOMER INSTALLABLE <input type="checkbox"/> ON-SITE (active On-site contract required) <input checked="" type="checkbox"/> SERVICE CENTER <input type="checkbox"/> CHANNEL PARTNERS	SERVICE INVENTORY:	<input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input checked="" type="checkbox"/> SEE TEXT	USED PARTS:	<input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input checked="" type="checkbox"/> SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	NO CHARGE AVAILABLE UNTIL:	01-Nov-2017		
	<input checked="" type="checkbox"/> Calibration Required <input type="checkbox"/> Calibration NOT Required	PRODUCT LINE:	WN		
		AUTHOR:	LSL		

ADDITIONAL INFORMATION:
Service Inventory and Used part is Not Applicable.

Situation:

An inconsistency was discovered on the measurement report of 8481A. The Reference Calibration Factor at 50MHz is inconsistent with 50MHz Calibration Factor listed in Table 1 below.

This may cause a measurement error of up to 3% when user enters the Cal Factor into the system.

Reference Calibration Factor, at 50MHz = 100.0%

FREQUENCY MHz	CALIBRATION FACTOR %	REFLECTION LIN MAG	REFLECTION PHASE DEG
	@0 dBm		
10.0	98.9	0.051	-94.8
30.0	99.1	0.022	-122.2
50.0	99.2	0.017	-141.2
100.0	99.7	0.014	-168.0
300.0	99.3	0.013	139.9
500.0	98.9	0.013	101.5
1000.0	98.8	0.016	24.4
1500.0	98.7	0.017	-27.0
2000.0	98.4	0.018	-93.4
3000.0	97.7	0.021	126.2
4000.0	97.4	0.031	14.8
5000.0	97.1	0.026	-88.9
6000.0	96.8	0.015	143.6
7000.0	96.5	0.014	-20.5
8000.0	96.0	0.016	-169.6
9000.0	95.6	0.029	55.2

Table 1: Report on Calibration Factor

Solution/Action:

This issue can be fixed by re-calibrating the affected unit. New CoC (Certificate of Calibration) and measurement report will be regenerated.

Please contact Keysight Technologies' Customer Contact Center at www.keysight.com/find/contactus for the recommended product modification.

Revision History:

Date	Service Note Revision	Author	Reason for Change
21 October 2016	01	LSL	As Published