

Q347B-02

Modification Recommended Service Note

Supersedes:
None

Q347B Millimeter-Wave Noise Source, Q-band, 33 to 50 GHz

Serial Numbers: MY44420159, MY44420162

Manufacturing ID Number: N/A

Repair strategy change for Q347B Noise source

Parts Required:

P/N	Description	Qty.
00346-60197	33 GHz to 50 GHz Q-Band noise source replacement	1

ADMINISTRATIVE INFORMATION

ACTION	☒ ON SPECIFIED FAILURE	STANDARDS	
CATEGORY:	☐ AGREEABLE TIME	LABOR:	0.5 Hours
LOCATION	☐ CUSTOMER INSTALLABLE	SERVICE:	☒ RETURN
CATEGORY:	☐ ON-SITE (active On-site contract required)	INVENTORY:	☐ SCRAP
	☒ SERVICE CENTER		☐ SEE TEXT
	☐ CHANNEL PARTNERS	USED PARTS:	☒ RETURN
			☐ SCRAP
			☐ SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	NO CHARGE AVAILABLE UNTIL:	1-Apr-2022
	☒ Calibration Required	PRODUCT LINE:	WN
	☐ Calibration NOT Required	AUTHOR:	ls

ADDITIONAL INFORMATION: This service note communicates the repair strategy change for Keysight Technologies Q347B noise source from January 2019 onwards.

Situation:

The old diode (part of the Noise source bulkhead assembly) had been discontinued with no alternative sourcing identified.

The new noise source will have some slight differences in ENR value.

Solution/Action:

This service note serves as a notification to the listed serial numbers.

This is only a notification and no further action is required.

Table 1-1 – Identified Q347B serial numbers

MY44420159	MY44420162
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--If your unit serial number belongs to the above, in the event (low possibility & unlikely) where the noise source is deemed to be out of specification/ fail annual calibration, it will be replaced with brand new Q347B with a new (Different) serial number.

Refer to the [Appendix](#) for the ENR value comparison.

Should you require further information, contact Keysight Technologies service team.

Appendix

Shown is the quick comparisons of ENR – Table 1-2

Shown in figure 1-1 is the typical ENR performance comparison for old and new diode.

For detailed and updated info, refer to Q347B Data Sheet & Operating and Service Manual in Keysight.com.

Table 1-2

Frequency Range	ENR (Serial Prefix MY/SG4442, 4015A, 3318A and below)	ENR (Serial Prefix MY/SG5823)
33 to 42GHz	10 dB to 13 dB	14 to 17 dB
42 to 50GHz	6 dB to 12.5 dB	9 dB to 16 dB

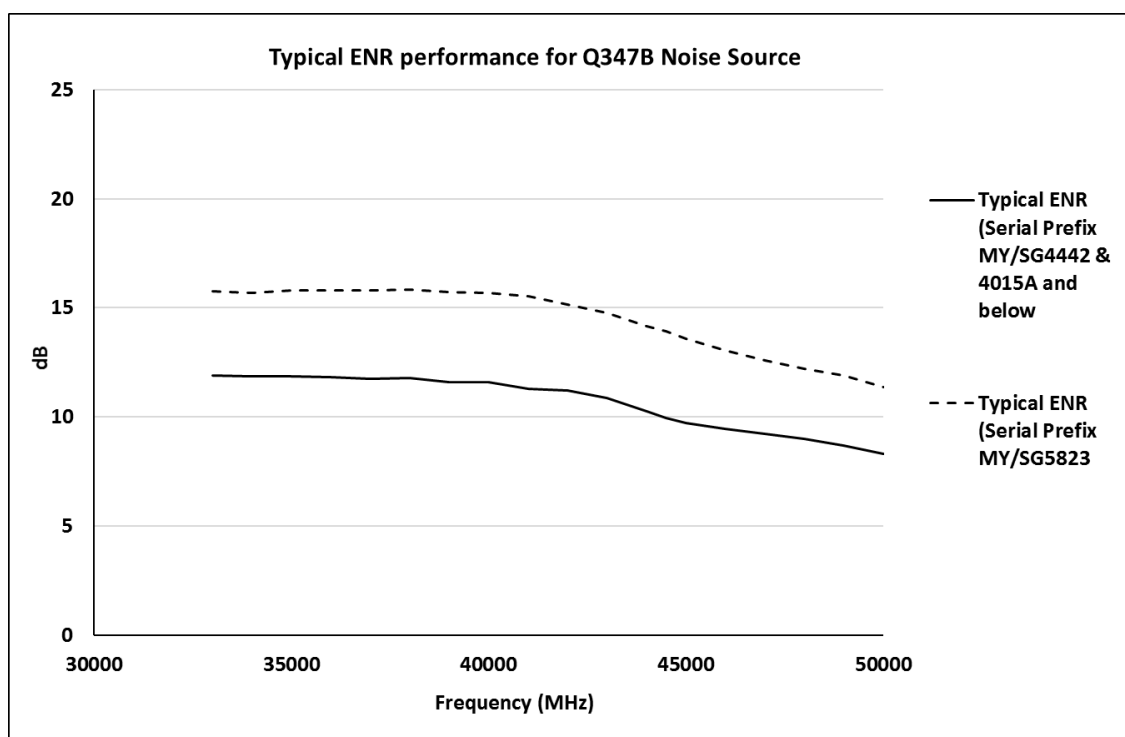


Figure 1-1

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Revision History:

Date	Service Note Revision	Author	Reason for Change
26-Mar-2019	Q347B-02	ls	As Published