

Radio Test Report

Silicon Laboratories Finland Oy

Main Model: SiW917Y1GA
Series Model: SiW917Y1GN



In accordance with ARIB STD-T66
(2.4 GHz Bluetooth Low Energy & 2.4 GHz WLAN)

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COMMERCIAL-IN-CONFIDENCE

Document 75967571-01 Issue 04

SIGNATURE			
NAME	JOB TITLE	RESPONSIBLE FOR	ISSUE DATE
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Signatures in this approval box have checked this document in line with the requirements of TÜV SÜD document control rules.

EXECUTIVE SUMMARY
A sample of this product was tested and found to be compliant with ARIB STD-T66 and MIC No. 88 Annex 43 (Article 2 Paragraph 1 Item 19): 3.8 (2024-03) for the tests detailed in section 1.3.

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1 Report Summary

1.1 Report Modification Record

Alterations and additions to this report will be issued to the holders of each copy in the form of a complete document.

Issue	Description of Change	Date of Issue
01	First version	27-Apr-2026
02	Minor documentation updates	01-May-2026
03	Power measurements for Channel 14 added.	01-May-2026
04	Corrections to Brief Summary of Results table specifications	06-May-2026

Table 1

1.2 Introduction

Applicant	Silicon Laboratories Finland Oy
Manufacturer	Silicon Laboratories Finland Oy
Model Number(s)	Main Model SiW917Y1GA Series Model: SiW917Y1GN
Serial Number(s)	MAC Address - 98:32:68:82:68:7c
Hardware Version(s)	1.1
Software Version(s)	Stack's "Connectivity Firmware" Version 2.15.5.0.0.10
Number of Samples Tested	1
Test Specification/Issue/Date	ARIB STD-T66 3.8 (2024-03) RCR STD-33 5.4 (2010-04) – (Channel 14)
Order Number	6000578585
Date	09-April-2026
Date of Receipt of EUT	10-March-2026
Start of Test	13-April-2026
Finish of Test	01-May-2026
Name of Engineer(s)	Hugo Petty George Williams
Related Document(s)	Radio Equipment Regulations, Article 14 Radio Equipment Regulations, Article 5 Table 1 Radio Equipment Regulations, Article 7, Table 3 Radio Equipment Regulations, Article 6, Table 2 MIC No. 88 Annex 43 (Article 2 Paragraph 1 Item 19)



1.3 Brief Summary of Results

A brief summary of the tests carried out in accordance with ARIB STD-T66 and MIC No. 88 Annex 43 (Article 2 Paragraph 1 Item 19) is shown below.

Section	Specification Clause	Test Description	Result	Comments/Base Standard
Configuration and Mode: 2.4 GHz Bluetooth Low Energy Conducted Tests				
2.1	3.2 (2)	Antenna Power	Pass	Radio Equipment Regulations, Article 14 Article 2 Paragraph 1 Item (19) MIC Notice No.88 Appendix No.43
2.2	3.2 (4)	Frequency Deviation	Pass	Radio Equipment Regulations, Article 5 Table 1
2.3	3.2 (7)	Allowable Value for Occupied Bandwidth	Pass	Radio Equipment Regulations, Article 6, Table 2
Configuration and Mode: 2.4 GHz WLAN Conducted Tests				
2.1	3.2 (2)	Antenna Power	Pass	Radio Equipment Regulations, Article 14 Article 2 Paragraph 1 Item (19)-2 MIC Notice No.88 Appendix No.44 RCR STD-33 (Channel 14)
2.4	3.2 (6)	Permissible Value of Spurious or Unnecessary Radiation Intensity	Pass	Radio Equipment Regulations, Article 7, Table 3

Table 2



1.4 Application Form

Equipment Description

This test report is a follow-up to Document 75960833-07 Issue 02 and 75960833-06 Issue 03 to determine that compliance was maintained after a PCB change, as such the application form from the above reports is to be referred to for details of the equipment. The table below details all differences between the information supplied on the previous application form and the equipment under test for this report.

Integral PCB trace antenna with peak gain of 2.26 dBi.

Part Number:	Ordering Part Numbers (OPNs) ending in "XA"
Hardware Version:	1.1
Software Version:	Stack's "Connectivity Firmware" version 2.15.5.0.0.10

Table 3



1.7 EUT Modification Record

The table below details modifications made to the EUT during the test programme.

The modifications incorporated during each test are recorded on the appropriate test pages.

Modification State	Description of Modification still fitted to EUT	Modification Fitted By	Date Modification Fitted
Model: SiW917Y1GN, Serial Number: MAC Address - 98:32:68:82:68:7c			
0	As supplied by the customer	Not Applicable	Not Applicable

Table 5

Note: The serial numbers used throughout this report are the MAC addresses of the equipment under test.

1.8 Test Location

TÜV SÜD conducted the following tests at our Octagon House Test Laboratory.

Test Name	Name of Engineer(s)	Accreditation
Configuration and Mode: 2.4 GHz Bluetooth Low Energy – Conducted Tests		
Antenna Power	Hugo Petty	UKAS
	George Williams	UKAS
Frequency Deviation	Hugo Petty	UKAS
Allowable Value for Occupied Bandwidth	Hugo Petty	UKAS
Configuration and Mode: 2.4 GHz WLAN – Conducted Tests		
Antenna Power	Hugo Petty	UKAS
Permissible Value of Spurious or Unnecessary Radiation Intensity	Hugo Petty	UKAS

Table 6

Laboratory Address: TÜV SÜD
Octagon House
Concorde Way
Fareham
Hampshire
PO15 5RL
United Kingdom



2 Test Details

2.1 Antenna Power

2.1.1 Specification Reference

ARIB STD-T66, Clause 3.2 (2)
MIC No. 88 Annex 43 (Article 2 Paragraph 1 Item 19)
RCR STD-33, Clause 3.2

2.1.2 Equipment Under Test and Modification State

SiW917Y1GN, S/N: MAC Address - 98:32:68:82:68:7c- Modification State 0

2.1.3 Date of Test

13-April-2026 to 01-May-2026

2.1.4 Test Method

The Power Spectral Density was measured using a spectrum analyser which was tuned to the test frequency with the relevant RBW to match the limit. The max hold function on the analyser was used to obtain output power. A percentage deviation from the measured power to the declared power was calculated and assessed against the tolerance limits.

The EUT was supplied with 3.3 VDC by means of a regulator residing in the host certification board, which was in turn being powered over the host certification board's USB connector.

2.1.5 Environmental Conditions

Ambient Temperature	19.0 - 23.8°C
Relative Humidity	25.7 - 39.3 %

2.1.6 Test Results

2.4 GHz Bluetooth Low Energy – Conducted Tests

Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	3.2 (2) 3.2 (3)	Test Method(s):	Refer to Test Method
Additional Reference(s):	3.6		

DUT Configuration			
Frequency	2440 MHz	Duty Cycle	Refer to Table 22
Data Rate	Refer to Table 22	DCCF (dB)	-
Antenna Configuration	SISO	Peak Antenna Gain (dBi)	7.48 [#]
Supply Voltage	3.3 V DC	Tx Mode	Continuous Modulated Packet Bursts

Configuration Mode & Data Rate	Power Index	Conducted Output Power (mW/MHz)	Declared Output Power (mW/MHz)	Antenna Power Limit (mW/MHz)	Tolerance (%)	Limit (%) [*]
BLE Coded: 125 kbps	127	2.927	6.100	10	-52.02	-80 ≤ n ≤ +20
BLE1M: 1 Mbps	127	2.508	6.100	10	-58.89	-80 ≤ n ≤ +20
BLE2M: 2 Mbps	127	2.222	4.300	10	-48.33	-80 ≤ n ≤ +20

Table 7 - Power Density Results for BLE

Mode & Modulation Coding Scheme/Data Rate	Power Index	Conducted Output Power	
		dBm	mW
BLE Coded: 125 kbps	127	4.782	3.01
BLE1M: 1 Mbps	127	4.394	2.75
BLE2M: 2 Mbps	127	4.554	2.85

Table 8 - Output Power Results for BLE

2.4 GHz WLAN - Conducted Tests

Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	3.2 (2) 3.2 (3)	Test Method(s):	Refer to Test Method
Additional Reference(s):	3.6		

DUT Configuration			
Frequency	2442 MHz	Duty Cycle	100%
Data Rate	Refer to Table 23	DCCF (dB)	-
Antenna Configuration	SISO	Peak Antenna Gain (dBi)	7.44 [#]
Supply Voltage	3.3 V DC	Tx Mode	Continuous Modulated Stream

Mode & Modulation Coding Scheme/Data Rate	Power Index	Conducted Output Power (mW/MHz)	Declared Output Power (mW/MHz)	Antenna Power Limit (mW/MHz)	Tolerance (%)	Limit (%) [*]
802.11b 1Mbps	127	2.954	6.300	10	-53.11	-80 ≤ n ≤ +20
802.11g 6Mbps	127	2.937	6.000	10	-51.05	-80 ≤ n ≤ +20
802.11n HT20 MCS0	127	2.871	5.600	10	-48.73	-80 ≤ n ≤ +20
802.11ax HE20 SU MCS0x1	127	0.331	1.000	10	-66.90	-80 ≤ n ≤ +20
802.11ax HE20 RU26 MCS0x1	127	2.553	6.300	10	-59.48	-80 ≤ n ≤ +20

Table 9 - Power Density Results for 2.4 GHz WLAN

Mode & Modulation Coding Scheme/Data Rate	Power Index	Conducted Output Power	
		dBm	mW
802.11b 1Mbps	127	12.949	19.72
802.11g 6Mbps	127	16.074	40.49
802.11n HT20 MCS0	127	16.293	42.59
802.11ax HE20 SU MCS0x1	127	7.058	5.08
802.11ax HE20 RU26 MCS0x1	127	6.462	4.43

Table 10 - Output Power Results for 2.4 GHz WLAN

2.4 GHz WLAN - Conducted Tests

Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	3.2 (2) 3.2 (3)	Test Method(s):	Refer to Test Method
Additional Reference(s):	3.6		

DUT Configuration			
Frequency	2484 MHz	Duty Cycle	100%
Data Rate	Refer to Table 23	DCCF (dB)	-
Antenna Configuration	SISO	Peak Antenna Gain (dBi)	8.97 [#]
Supply Voltage	3.3 V DC	Tx Mode	Continuous Modulated Stream

Mode & Modulation Coding Scheme/Data Rate	Power Index	Conducted Output Power (mW/MHz)	Declared Output Power (mW/MHz)	Antenna Power Limit (mW/MHz)	Tolerance (%)	Limit (%) [*]
802.11b 1Mbps	127	2.073	6.300	10	-67.09	-80 ≤ n ≤ +20

Table 11 - Power Density Results for 2.4 GHz WLAN

Mode & Modulation Coding Scheme/Data Rate	Power Index	Conducted Output Power	
		dBm	mW
802.11b 1Mbps	127	12.600	18.200

Table 12 - Output Power Results for 2.4 GHz WLAN

ARIB STD T-66, Limit Clause 3.2 & 3.6

Clause	Requirement
3.2(2)(b)	10 mW/MHz

Clause	Requirement
3.6(2)	The absolute gain of the transmitting antenna shall be ≤ 12.14 dB

Table 13 - Antenna Power Limit

* Only the upper antenna tolerance of +20% applies to the Radio Equipment Regulations Article 14(8)(3) for radio stations of low-power data communications systems using radio waves with frequencies exceeding 2400 MHz and up to 2483.5 MHz.

The maximum antenna gain for this unit to pass the requirements has been found to be 7.48 dBi for BLE antennas, 7.44 dBi for 2.4GHz WLAN on channels 1-13 & 8.97 dBi for 2.4 GHz WLAN on channel 14 and with a maximum half power beamwidth of 360 degrees. This is due to the max measurement of 2.927 mW/MHz for BLE and 2.954 mW/MHz for 2.4 GHz WLAN. Higher gain antennas may be used so long as the half power beamwidth passes the requirements in ARIB STD-T66 3.6(2).

2.1.7 Test Location and Test Equipment Used

This test was carried out in RF Laboratory 1.

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Expires
Hygrometer	Rotronic	I-1000	2891	12	23-Dec-2026
Network Analyser	Rohde & Schwarz	ZVA 40	3548	12	02-Jul-2026
Calibration Unit	Rohde & Schwarz	ZV-Z54	4368	12	02-Jul-2026
GPSDR Frequency Standard	Spectracom	SecureSync 1200-0408-0601	4393	6	17-Sep-2026
PXA Signal Analyser	Keysight Technologies	N9030A	4653	12	06-May-2026
Coaxial Fixed Attenuator DC-18GHz 5W 10dB	RF-Lambda	RFS5G18B10SMP	6182	12	21-Jul-2026
1m Coaxial Cable Assy	Junkosha	MWX221-01000AMSAMS/A	6377	12	06-Sep-2026
MXA Signal Analyser	Keysight Technologies	N9020B	6418	24	15-Oct-2027
Attenuator 5W 10dB DC-18GHz	Aaren	AT40A-4041-D18-10	6551	12	18-Jun-2026
Attenuator 5W 20dB DC-18GHz	Aaren	AT40A-4041-D18-20	6556	12	18-Jun-2026

Table 14



2.2 Frequency Deviation

2.2.1 Specification Reference

ARIB STD-T66, Clause 3.2 (4)
MIC No. 88 Annex 43 (Article 2 Paragraph 1 Item 19)

2.2.2 Equipment Under Test and Modification State

SiW917Y1GN, S/N: MAC Address - 98:32:68:82:68:7c- Modification State 0

2.2.3 Date of Test

13-April-2026

2.2.4 Test Method

The frequency of the spectrum was measured using a spectrum analyser by finding the centre point of the 10 dB bandwidth. The deviation of the measured value from the assigned frequency was calculated in ppm.

The EUT was supplied with 3.3 VDC by means of a regulator residing in the host certification board, which was in turn being powered over the host certification board's USB connector.

2.2.5 Environmental Conditions

Ambient Temperature	19.0 °C
Relative Humidity	38.6 %

2.2.6 Test Results

2.4 GHz Bluetooth Low Energy – Conducted Tests

DUT Configuration			
Mode	LE1M	Duty Cycle	84.9%
Data Rate	1 Mbps	DCCF (dB)	-
Antenna Configuration	SISO	Peak Antenna Gain (dBi)	-
Supply Voltage	3.3 V DC	Tx Mode	Continuous Modulated Packet Bursts
Frequency (MHz)	Measured Frequency (MHz)	Frequency Error (ppm)	Limit (ppm)
2440	2439.9889	-4.55	±50

Table 15 - Frequency Deviation

ARIB STD T-66, Limit Clause 3.2 (4)

Tolerance of frequency shall be $\pm 50 \times 10^{-6}$.

2.2.7 Test Location and Test Equipment Used

This test was carried out in RF Laboratory 1.

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Expires
Hygrometer	Rotronic	I-1000	2891	12	23-Dec-2026
Network Analyser	Rohde & Schwarz	ZVA 40	3548	12	02-Jul-2026
Calibration Unit	Rohde & Schwarz	ZV-Z54	4368	12	02-Jul-2026
GPSDR Frequency Standard	Spectracom	SecureSync 1200-0408-0601	4393	6	17-Sep-2026
PXA Signal Analyser	Keysight Technologies	N9030A	4653	12	06-May-2026
Coaxial Fixed Attenuator DC-18GHz 5W 10dB	RF-Lambda	RFS5G18B10SMP	6182	12	21-Jul-2026
1m Coaxial Cable Assy	Junkosha	MWX221-01000AMSAMS/A	6377	12	06-Sep-2026
Attenuator 5W 20dB DC-18GHz	Aaren	AT40A-4041-D18-20	6556	12	18-Jun-2026

Table 16



2.3 Allowable Value for Occupied Bandwidth

2.3.1 Specification Reference

ARIB STD-T66, Clause 3.2 (7)
MIC No. 88 Annex 43 (Article 2 Paragraph 1 Item 19)

2.3.2 Equipment Under Test and Modification State

SiW917Y1GN, S/N: MAC Address - 98:32:68:82:68:7c- Modification State 0

2.3.3 Date of Test

13-April-2026

2.3.4 Test Method

The spectrum analyser was tuned to the test frequency with a span to incorporate the entire bandwidth of the modulated signal. Allowing for the trace to stabilize, the bandwidth whereby 99% power of the power resides was recorded.

The EUT was supplied with 3.3 VDC by means of a regulator residing in the host certification board, which was in turn being powered over the host certification board's USB connector.

2.3.5 Environmental Conditions

Ambient Temperature	19.0 °C
Relative Humidity	38.6 %



2.3.6 Test Results

2.4 GHz Bluetooth Low Energy – Conducted Tests

Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	3.2 (7)	Test Method(s):	Refer to test method
Additional Reference(s):	-		

DUT Configuration			
Mode	LE1M	Duty Cycle	84.9%
Data Rate	1 Mbps	DCCF (dB)	-
Antenna Configuration	SISO	Peak Antenna Gain (dBi)	-
Supply Voltage	3.3 V DC	Tx Mode	Continuous Modulated Packet Bursts

Test Frequency (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2440	1.229	OBW ≤ 26 MHz

Table 17 - 99% Bandwidth Results

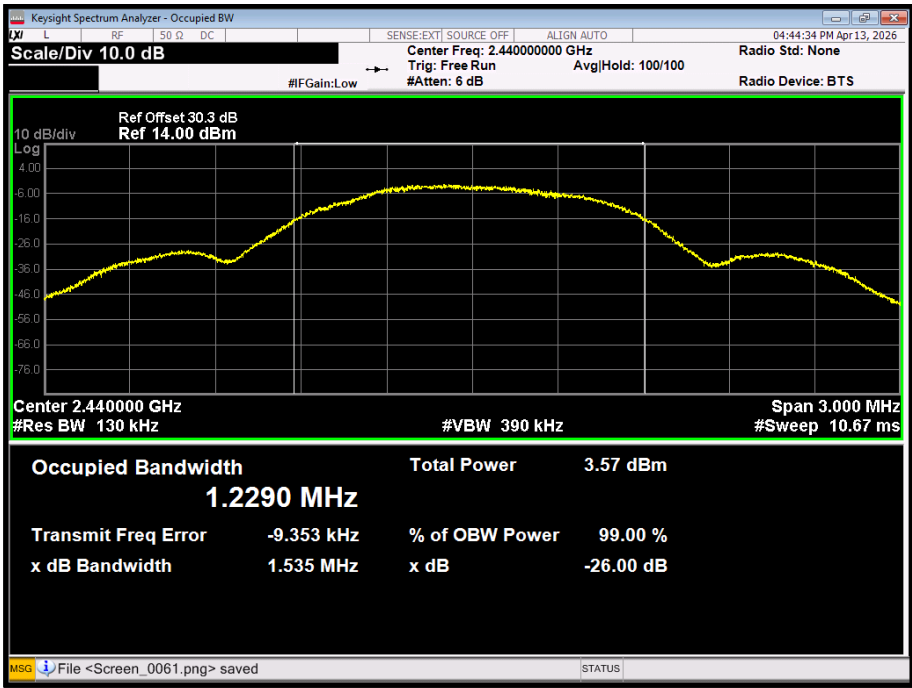


Figure 1 - 2440 MHz

ARIB STD T-66, Limit Clause 3.2 (7)

Permissible value of occupied frequency bandwidth for transmission devices using a FH system, a DS-FH hybrid system, or a FH-OFDM hybrid system is at most 83.5MHz; for transmission devices using an OFDM system is at most 38MHz; and for transmission devices using any other system the necessary frequency bandwidth is at most 26MHz.

2.3.7 Test Location and Test Equipment Used

This test was carried out in RF Laboratory 1.

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Expires
Hygrometer	Rotronic	I-1000	2891	12	23-Dec-2026
Network Analyser	Rohde & Schwarz	ZVA 40	3548	12	02-Jul-2026
Calibration Unit	Rohde & Schwarz	ZV-Z54	4368	12	02-Jul-2026
GPSDR Frequency Standard	Spectracom	SecureSync 1200-0408-0601	4393	6	17-Sep-2026
PXA Signal Analyser	Keysight Technologies	N9030A	4653	12	06-May-2026
Coaxial Fixed Attenuator DC-18GHz 5W 10dB	RF-Lambda	RFS5G18B10SMP	6182	12	21-Jul-2026
1m Coaxial Cable Assy	Junkosha	MWX221-01000AMSAMS/A	6377	12	06-Sep-2026
Attenuator 5W 20dB DC-18GHz	Aaren	AT40A-4041-D18-20	6556	12	18-Jun-2026

Table 18



2.4 Permissible Value of Spurious or Unnecessary Radiation Intensity

2.4.1 Specification Reference

ARIB STD-T66, Clause 3.2 (6)
MIC No. 88 Annex 43 (Article 2 Paragraph 1 Item 19)

2.4.2 Equipment Under Test and Modification State

SiW917Y1GN, S/N: MAC Address - 98:32:68:82:68:7c- Modification State 0

2.4.3 Date of Test

14-April-2026

2.4.4 Test Method

2.4 GHz WLAN - Conducted Test

Measurements were carried out using Spectrum Analyser. DUT was connected to the Spectrum Analyser via an SMA cable with 10dB attenuation. Power was provided via a USB cable which also allowed for DUT programming. Utilising a customer provided macro the DUT was set up for Continuous Modulated Packet Burst transmission with the worst-case Output Power Configuration Mode found to be 802.11n HT20 MCS. This information was taken from Document 75960833-06 Issue 03.

2.4.5 Environmental Conditions

Ambient Temperature	19.1 °C
Relative Humidity	41.4 %



2.4.6 Test Results

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector
*				

Table 19 - Mode: 802.11n MCS0, Ch 1 (2412 MHz); 30 MHz to 13 GHz

*No emissions found within 6 dB of the limit.

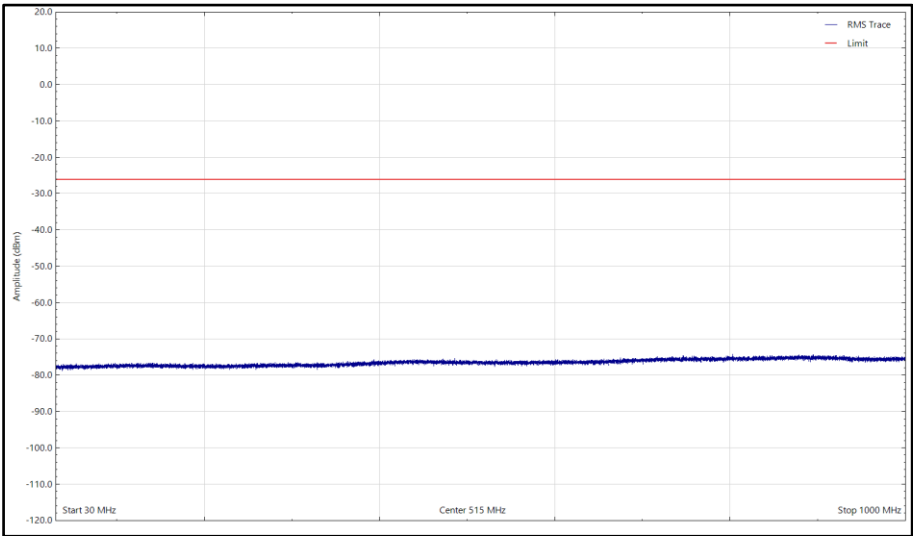


Figure 2 - Mode: 802.11n MCS0, Ch 1 (2412 MHz); 30 MHz to 1 GHz

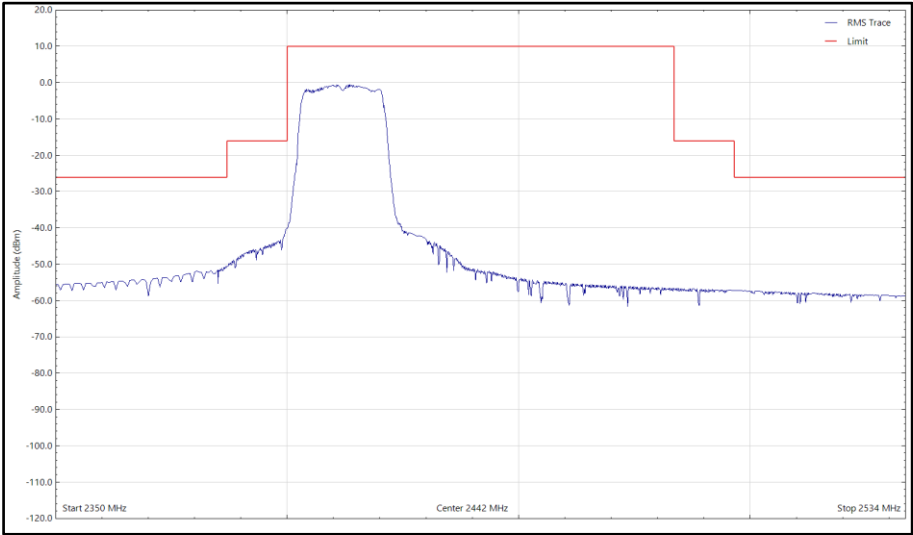


Figure 3 - Mode: 802.11n MCS0, Ch 1 (2412 MHz); 2 GHz to 3 GHz

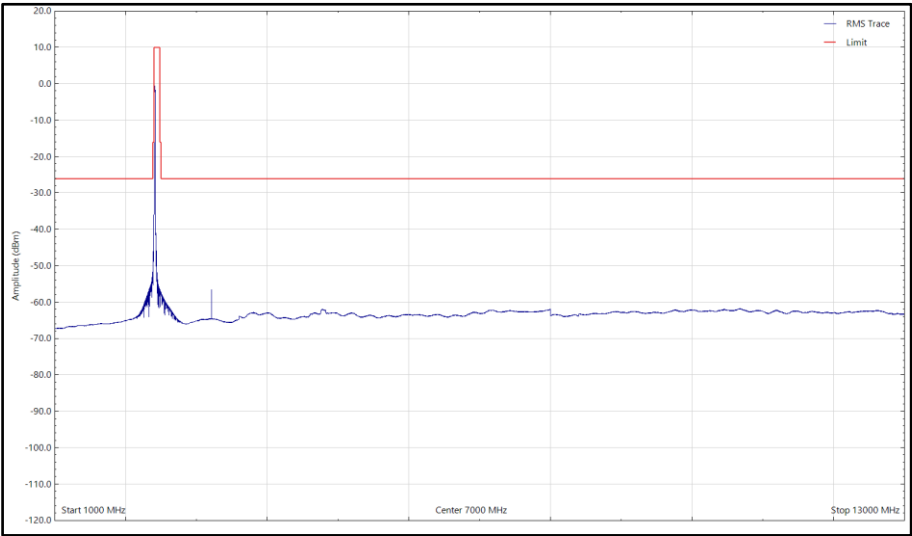


Figure 4 - Mode: 802.11n MCS0, Ch 1 (2412 MHz); 1 GHz to 13 GHz



Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector
*				

Table 20 - Mode: 802.11n MCS0, Ch 7 (2442 MHz); 30 MHz to 13 GHz

*No emissions found within 6 dB of the limit.

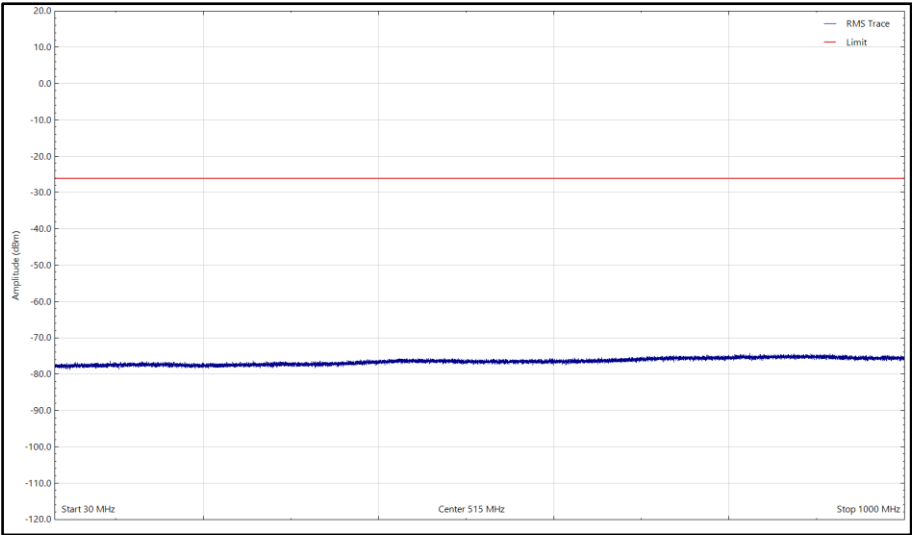


Figure 5 - Mode: 802.11n MCS0, Ch 7 (2442 MHz); 30 MHz to 1 GHz

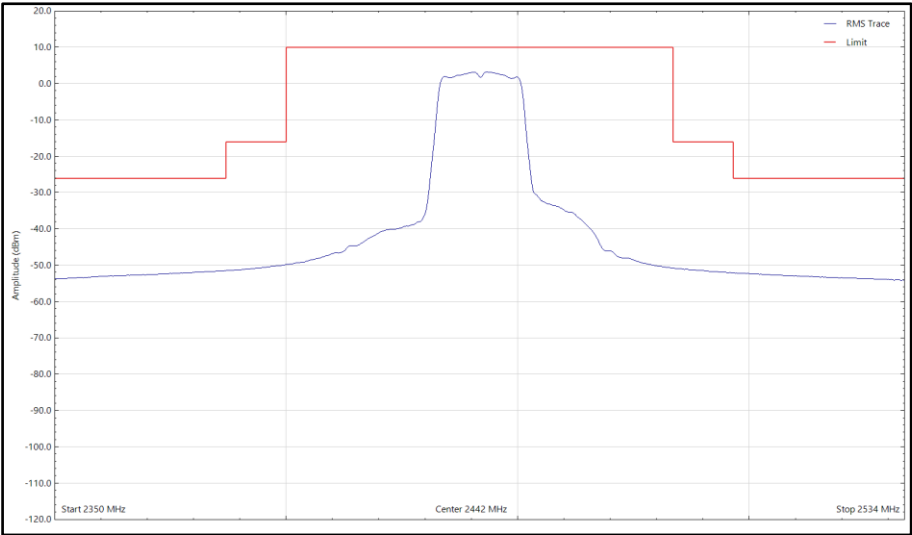


Figure 6 - Mode: 802.11n MCS0, Ch 7 (2442 MHz); 2 GHz to 3 GHz

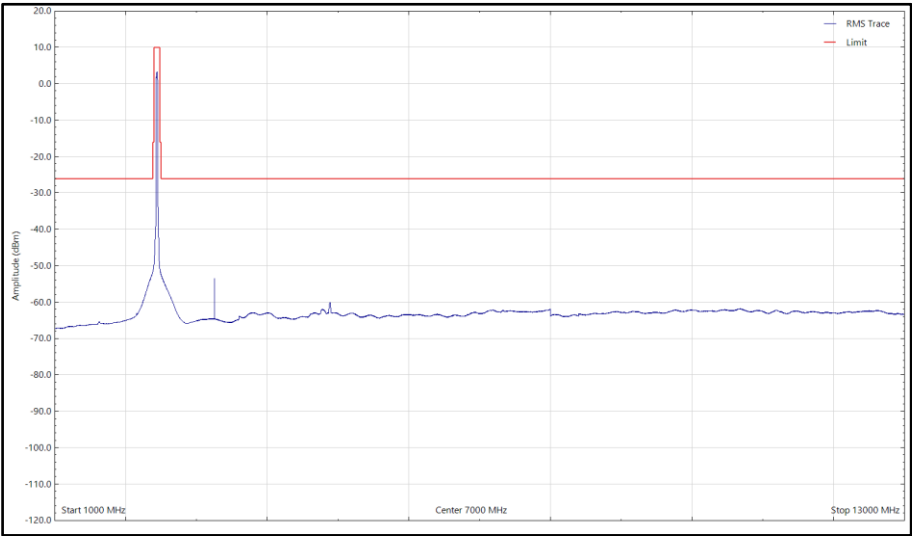


Figure 7 - Mode: 802.11n MCS0, Ch 7 (2442 MHz); 1 GHz to 13 GHz



Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector
*				

Table 21 - Mode: 802.11n MCS0, Ch 13 (2472 MHz); 30 MHz to 13 GHz

*No emissions found within 6 dB of the limit.

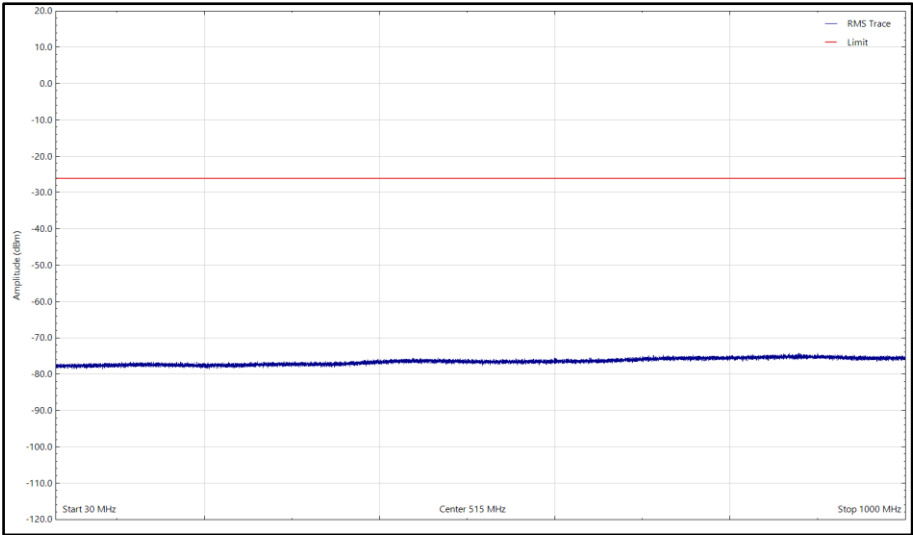


Figure 8 - Mode: 802.11n MCS0, Ch 13 (2472 MHz); 30 MHz to 1 GHz

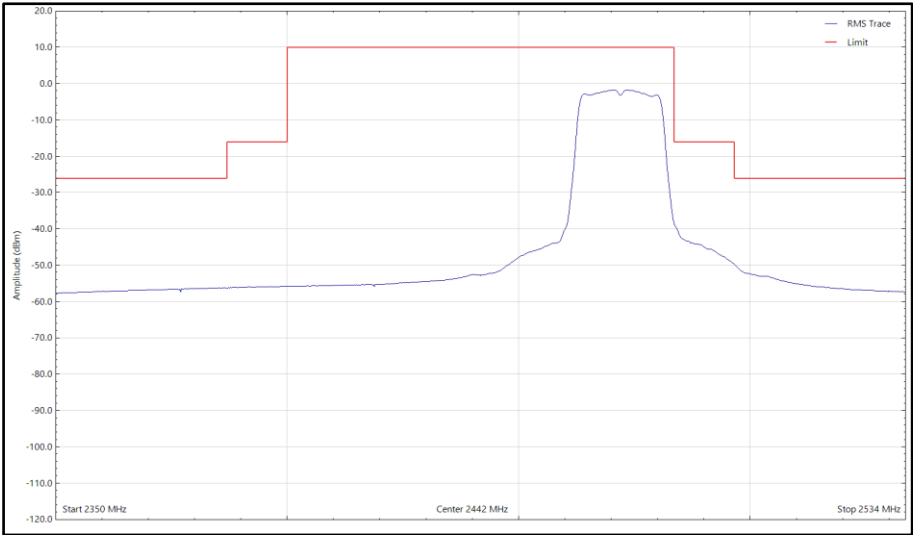


Figure 9 - Mode: 802.11n MCS0, Ch 13 (2472 MHz); 2 GHz to 3 GHz

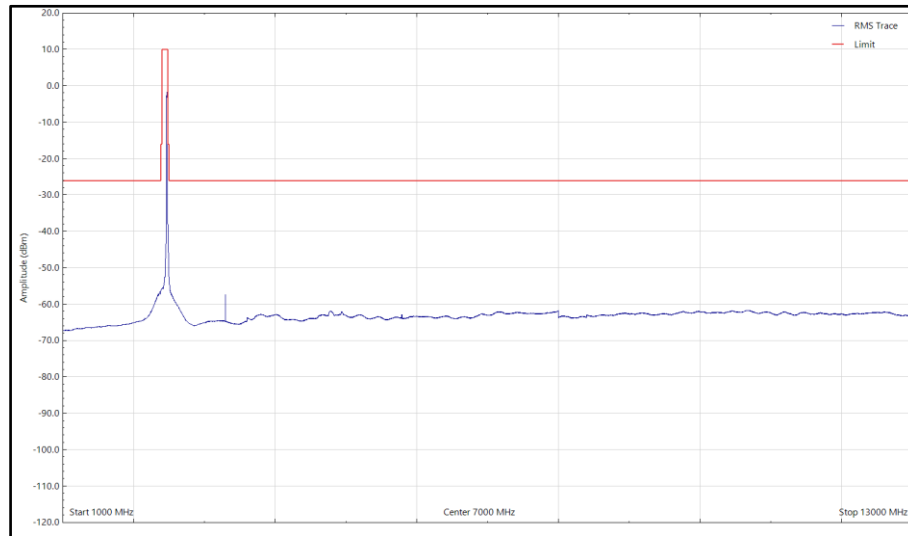


Figure 10 - Mode: 802.11n MCS0, Ch 13 (2472 MHz); 1 GHz to 13 GHz

ARIB STD-T66, Limit Clause 3.2 (6)

Frequency Range	Limit
2387 MHz to 2400 MHz and 2483.5 MHz to 2496.5 MHz	25 μ W or -16 dBm
9 kHz to <2387 MHz and >2496.5 MHz to 13 GHz	2.5 μ W or -26 dBm

2.4.7 Test Location and Test Equipment Used

This test was carried out in RF Laboratory 1.

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Expires
Hygrometer	Rotronic	I-1000	2891	12	23-Dec-2026
GPSDR Frequency Standard	Spectracom	SecureSync 1200-0408-0601	4393	6	17-Sep-2026
PXA Signal Analyser	Keysight Technologies	N9030A	4653	12	06-May-2026
Emissions Software	TUV SUD	EmX V3.6.1	5125	-	N/A - Software
GPIB ADAPTOR	National Instruments	GPIB-USB-HS	5699	-	TU
Coaxial Fixed Attenuator DC-18GHz 5W 10dB	RF-Lambda	RFS5G18B10SMP	6182	12	21-Jul-2026
1m Coaxial Cable Assy	Junkosha	MWX221-01000AMSAMS/A	6377	12	06-Sep-2026

Table 22

TU - Traceability Unscheduled

3 Measurement Uncertainty

For a 95% confidence level, the measurement uncertainties for defined systems are:

Test Name	Measurement Uncertainty
Antenna Power	± 0.64 dB
Frequency Deviation	± 296.155 Hz
Allowable Value for Occupied Bandwidth	± 46.39 kHz
Permissible Value of Spurious or Unnecessary Radiation Intensity	± 3.454 dB

Table 23

Measurement Uncertainty Decision Rule

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115:2023, Clause 4.3.4 (Simple Acceptance). The measurement results are directly compared with the test limit to determine conformance with the requirements of the standard.

Risk: The uncertainty of measurement about the measured result is negligible with regard to the final pass/fail decision. The measurement result can be directly compared with the test limit to determine conformance with the requirement (compare IEC Guide 115). The level of risk to falsely accept and falsely reject items is further described in ILAC-G8.