



Element Materials Technology

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MEASUREMENT REPORT

FCC PART 15.407 / ISED RSS-248 Narrowband UNII 6GHz

Applicant Name:

Apple Inc.
One Apple Park Way
Cupertino, CA 95014
United States

Date of Testing:

5/15/2025 - 7/24/2025

Test Report Issue Date:

8/20/2025

Test Site/Location:

Element Materials Technology, Morgan Hill, CA, USA

Test Report Serial No.:

1C2504170043-05.BCG

FCC ID: BCG-A3063

IC: 579C-A3063

APPLICANT: Apple Inc.

Application Type

Certification

Models/HVIN:

A3063

EUT Type:

Wireless Right Earbud

Frequency Range:

6108 – 6420 MHz

Modulation Type:

GFSK, $\pi/4$ DQPSK

FCC Classification:

15E 6 GHZ Very Low Power Device (6VL)

FCC Rule Part (s):

Part 15 Subpart E (15.407)

ISED Specification:

RSS-248 Issue 3

Test Procedure(s):

ANSI C63.10-2020, KDB 789033 D02 v02r01,

KDB 987594 D01 v03r01, KDB 987594 D02 v03

KDB 987594 D04 v03, KDB 987594 D03 v03r04

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2020, KDB 789033 D02 v02r01 and KDB 987594 D02 v03. Test results reported herein relate only to the item(s) tested.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

RJ Ortanez
Executive Vice President

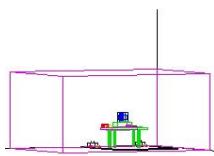


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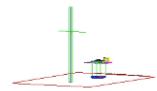
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UNII Band	Tx Frequency (MHz)	Mode	Max. e.i.r.p. [mW]	Max. e.i.r.p. [dBm]
5	6108-6420	NB UNII BDR	0.235	-6.29
		NB UNII LE1M	0.214	-6.70
		NB UNII LE2M	0.214	-6.69
		NB UNII HDR4	0.421	-3.76
		NB UNII HDR8	0.655	-1.84
		NB UNII HDRp4	0.372	-4.29
		NB UNII HDRp8	0.693	-1.59

EUT Overview

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1.0 INTRODUCTION

1.1 Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada.

1.2 Element Materials Technology Test Location

These measurement tests were conducted at the Element Materials Technology facility located at 18855 Adams Court, Morgan Hill, CA 95037. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014 and KDB 414788 D01 v01r01.

1.3 Test Facility / Accreditations

Measurements were performed at Element Materials Technology located in Morgan Hill, CA 95037, U.S.A.

- Element Materials Technology is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.02 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.
- Element Washington DC LLC TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and ISED Standards (RSS).
- Element Materials Technology facility is a registered (22831) test laboratory with the site description on file with ISED.
- Element Washington DC LLC is a Recognized U.S. Certification Assessment Body (CAB# US0110) for ISED Canada as designed by NIST under the U.S. and Canada Mutual Recognition Agreements (MRAs)

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Apple Wireless Right Earbud** FCC ID: **BCG-A3063** and IC: **579C-A3063**. The test data contained in this report pertains only to the emissions due to the EUT's Narrowband UNII transmitter.

- This Narrowband UNII module has been tested by manufacturer and the following were confirmed:
 - A) The hopping sequence is pseudorandom
 - B) The receiver input bandwidth equals the transmit bandwidth
 - C) The receiver hops in sequence with the transmit signal
 - D) Narrowband UNII can only hop within the same UNII band and cannot hop between bands

Test Device Serial No.: H5RHH2000PM0000UHY, H5RHH2000UB0000UHY, GJPHGR001X0000UGF

2.2 Device Capabilities

This device contains the following capabilities:

Bluetooth (1x, BDR, EDR, LE1M, LE2M, HDR4, HDR8, HDRp4, HDRp8), NB UNII (1x, BDR, LE1M, LE2M, HDR4, HDR8, HDRp4, HDRp8).

Channels below 6108 MHz in the UNII-5 band are disabled in the US and its territories.

Band 5	
Frequency (MHz)	
6108	
:	
6264	
:	
6420	

Table 2-1. NB BDR/LE/HDR Frequency / Channel Operations

Notes:

This device is capable of operating in hopping and non-hopping mode. The EUT can hop between different channels in the U-NII Band 5. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = peak per the guidance of Section B)2)b) of KDB 789033 D02 v02r01 and ANSI C63.10-2020. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

Measured Duty Cycles			
Mode	Frequency (MHz)	Duty Cycle [%]	DCCF [dB]
NB UNII GFSK	6108 - 6420	76.21	1.18
NB UNII LE1M		86.44	0.63
NB UNII LE2M		86.44	0.63
NB UNII HDR4		77.75	1.09
NB UNII HDR8		78.16	1.07
NB UNII HDRp4		87.14	0.60
NB UNII HDRp8		87.98	0.56

Table 2-2. Measured Duty Cycles

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2.3 Antenna Description

The following antenna gains provided by the manufacturer were used for testing.

Frequency [MHz]	Highest Antenna Gain (dBi)	Lowest Antenna Gain (dBi)
6108-6175	-1.67	-1.67
6176-6300	-2.03	-2.33
6301-6420	-3.15	-5.59

Table 2-3. Antenna Gain

2.4 Test Support Equipment

Test Support Equipment List					
1	Apple MacBook Pro	Model: A2141	S/N: C02H604EQ05D		
	w/AC/DC Adapter	Model: A2166	S/N: C4H042705ZNPM0WA6		
2	Apple Airpod Charging Case	Model: N/A	S/N: YH39L0M4GV		
	Apple Airpod (Left)	Model: A3064	S/N: H5RHH4000J10000UHZ		
	Head Mounted Device	Model: A3416	S/N: FG2HTHK269		
3	USB-C Cable	Model: A246C	S/N: N/A		
	w/ AC Adapter	Model: A2305	S/N: N/A		
4	Apple USB-C Cable	Model: Spartan	S/N: 000MKTR02U		

Table 2-4. Test Support Equipment List

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2.5 Test Configuration

The EUT was tested per the guidance of ANSI C63.10-2020 and KDB 789033 D02 v02r01. ANSI C63.10-2020 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing. See Sections 3.2 for AC line conducted emissions test setups, 3.3 for radiated emissions test setups, and 7.2, 7.3, 7.4 and 7.5 for antenna port conducted emissions test setups.

The EUT was investigated with and without charging case. The worst case configuration found was used for all testing.

For emissions from 1GHz – 18GHz, low, mid, and high channels were tested with highest power and worst case configuration. The emissions below 1GHz and above 18GHz were tested with the highest transmitting power and the worst case channel.

The EUT was manipulated through three orthogonal planes of X-orientation (flatbed), Y-orientation (landscape), and Z-orientation (portrait) during the testing. Only the worst case emissions were reported in this test report.

For AC line conducted and radiated test below 1GHz, following configurations were investigated and EUT powered by AC/DC adaptor was the worst case.

- EUT charged by charging case and powered by AC/DC adaptor with USB-C cable.
- EUT charged by charging case and powered by host PC with USB-C cable.

2.6 Software and Firmware

The test was conducted with firmware version 8A357 installed on the EUT.

2.7 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

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3.0 DESCRIPTION OF TESTS

3.1 Evaluation Procedure

The measurement procedures described in the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices (ANSI C63.10-2020) and the guidance provided in KDB 789033 D02 v02r01 were used in the measurement of the EUT.

Deviation from measurement procedure.....**None**

3.2 AC Line Conducted Emissions

The line-conducted facility is located inside a 7m x 3.66m x 2.7m shielded enclosure. The shielded enclosure is manufactured by AP Americas. The shielding effectiveness of the shielded room is in accordance with MIL-Std-285 or NSA 65-6. A 1m x 1.5m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50Ω/50µH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. The external power line filter is EPCOS 2X60A Power Line Filter (100dB Attenuation, 14kHz-18GHz) and the two EPCOs 2X48A filters (100dB Minimum Insertion Loss, 14kHz - 10GHz). These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and this supply line(s) will be connected to the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference ground plane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the spectrum analyzer and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The spectrum was scanned from 150kHz to 30MHz with a spectrum analyzer. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 10kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions is used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

Line conducted emissions test results are shown in Section 7.10. Automated test software was used to perform the AC line conducted emissions testing. Automated measurement software utilized is Rohde & Schwarz EMC32, Version 10.50.40.

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3.3 Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. The test site inside the chamber is a 6m x 5.2m elliptical, obstruction-free area in accordance with Figure 5.7 of Clause 5 in ANSI C63.4-2014. Absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections for measurements above 1GHz. An 80cm tall test table made of Styrodur is placed on top of the turn table. For measurements above 1GHz, an additional Styrodur pedestal is placed on top of the test table to bring the total table height to 1.5m.

Per KDB 414788 D01 v01r01, radiated emission test sites other than open-field test sites (e.g., shielded anechoic chambers), may be employed for emission measurements below 30MHz if characterized so that the measurements correspond to those obtained at an open-field test site. To determine test site equivalency, a reference sample transmitting at 149kHz was measured on an open field test site (asphalt with no ground plane) and then measured in the 3m semi-anechoic chamber. A calibrated 60cm loop antenna was used while the reference device was rotated through the X, Y and Z axis in order to capture the worst case level. A maximum deviation of 2.77dB at 149kHz was measured when comparing the 3 meter semi-anechoic chamber to the open field site.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33 depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up was placed on top of the 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, mode of operation, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions.

3.4 Environmental Conditions

The temperature is controlled within range of 15°C to 35°C. The relative humidity is controlled within range of 10% to 75%. The atmospheric pressure is monitored within the range 86-106kPa (860-1060mbar).

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4.0 ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section."

- The antennas of the EUT are **permanently attached**.
- There are no provisions for connection to an external antenna.

Conclusion:

The EUT complies with the requirement of §15.203.

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5.0 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.23-2012. All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95% level of confidence. The measurement uncertainty shown below meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Contribution	Expanded Uncertainty (\pm dB)
Conducted Bench Top Measurements	2.07
Line Conducted Disturbance	1.91
Radiated Disturbance (<30MHz)	4.12
Radiated Disturbance (30MHz - 1GHz)	4.85
Radiated Disturbance (1 - 18GHz)	5.08
Radiated Disturbance (>18GHz)	5.22

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6.0 TEST EQUIPMENT CALIBRATION DATA

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST). Measurements antennas used during testing were calibrated in accordance with the requirements of ANSI C63.5-2017.

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent Technologies	N9030A	3Hz-26.5GHz PXA Signal Analyzer	10/31/2024	Annual	10/31/2025	MY55330128
Anritsu	ML2496A	Power Meter	2/10/2025	Annual	2/10/2026	1306009
Anritsu	MA2411B	Pulse Power Sensor	9/5/2024	Annual	9/5/2025	1726262
Anritsu	MA2411B	Pulse Power Sensor	10/21/2024	Annual	10/21/2025	1027293
ATM	180-442-KF	20dB Nominal Gain Horn Antenna	3/24/2025	Annual	3/24/2026	T058601-2
ETS-Lindgren	3117	Double Ridged Guide Antenna (1-18 GHz)	4/16/2025	Annual	4/16/2026	00218555
Keysight Technology	N9040B	UXA Signal Analyzer	6/9/2025	Annual	6/9/2026	MY57212015
Mini-Circuits	FLC-1.5FT-SMSM+	30MHz-27GHz Conducted Cable w/Attenuator*	6/17/2025	Annual	6/17/2026	16113316
Rohde & Schwarz	TS-PR18	Pre-Amplifier (1GHz - 18GHz)	8/14/2024	Annual	8/14/2025	101648
Rohde & Schwarz	FSV40	Signal Analyzer (10Hz-40GHz)	5/20/2025	Annual	5/20/2026	101619
Rohde & Schwarz	ESW44	EMI Test Receiver	5/13/2025	Annual	5/13/2026	101867
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz - 8GHz)	11/15/2024	Annual	11/15/2025	102326
Rohde & Schwarz	TS-PR1840	Pre-Amplifier (18GHz - 40GHz)	6/3/2025	Annual	6/3/2026	100052
Rohde & Schwarz	HFH2-ZZ	Loop Antenna	5/12/2025	Annual	5/12/2026	100546
Rohde & Schwarz	ENV216	Two-Line V-Network	4/25/2025	Annual	4/25/2026	101364
Schwarzbeck	VULB 9162	Bilog Antenna (30MHz - 6GHz)	5/7/2025	Annual	5/7/2026	00304
Rhode & Schwartz	SMW200A	Vector Signal Generator	3/10/2025	Annual	3/10/2026	110589

Table 6-1. Test Equipment List

Note:

1. For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date.
2. * Denotes passive equipment that has been internally verified/calibrated.

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7.0 TEST RESULTS

7.1 Summary

Company Name: Apple Inc.
 FCC ID: BCG-A3063
 IC: 579C-A3063
 FCC Classification: 15E 6 GHZ Very Low Power Device (6VL)

FCC Part Section(s)	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
2.1049, 15.407	RSS-Gen [6.7] RSS-248 [4.4]	Occupied Bandwidth/ 26dB Bandwidth	99% of the occupied bandwidth of any channel must be contained within each of its respective U-NII sub bands < 320MHz (5.925 – 7.125GHz)	CONDUCTED	PASS	Section 7.2
15.407 (a.9)	RSS-248 [4.5.6]	Maximum EIRP	< 14dBm over the frequency band of operation for Very Low Power		PASS	Section 7.3
15.407 (a.9)	RSS-248 [4.5.6]	Maximum Power Spectral Density	< -5dBm/MHz e.i.r.p for Very Low Power		PASS	Section 7.4
15.407(b.7)	RSS-248 [4.6.2]	In-Band Emissions	EUT must meet the limits detailed in 15.407(b)(7) and RSS-248 [4.6.2] b)		PASS	Section 7.5
15.407(d.6)	RSS-248 [4.7]	Contention Based Protocol	EUT must detect AWGN signal with 90% (or better) certainty		PASS	Section 7.6
15.407(d.10)	RSS-248[4.6]	Transmit Power Control	EUT must employ a TPC mechanism to operate 6dB below the maximum EIRP PSD value of -5 dBm/MHz		PASS	Section 7.7
15.407(b.6)	RSS-248 [4.7.2]	Undesirable Emissions	< -27dBm/MHz e.i.r.p. outside of the 5.925 – 7.125GHz band	RADIATED	PASS	Section 7.8
15.205, 15.209 15.407(b.6)	RSS-248 [4.6.2] RSS-Gen [8.9]	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209 (RSS-Gen [8.9])		PASS	Section 7.8, Section 7.9
15.207	RSS-Gen [8.8]	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.207 (RSS-Gen [8.8]) limits	AC LINE CONDUCTED	PASS	Section 7.10

Table 7-1. Summary of Test Results

Notes:

1. All channels, modes, and modulations/data rates were investigated. The test results shown in the following sections represent the worst case emissions.
2. The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
3. All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.
4. For conducted spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element "Conducted Automation Software," Version 1.4.0.
5. For radiated testing, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element "Chamber Automation," Version 3.4.2.

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.2 26dB & 99% Bandwidth Measurement

[\\$2.1049; \\$15.407; RSS-Gen \[6.7\], RSS-248 \[4.4\]](#)

Test Overview and Limit

The bandwidth at 26dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2020 and KDB 789033 D02 v02r01, and at the appropriate frequencies. The spectrum analyzer's bandwidth measurement function is configured to measure the 26dB bandwidth.

Test Procedure Used

ANSI C63.10-2020 – Subclause 12.5

KDB 789033 D02 v02r01 – Section C

Test Settings

1. The signal analyzers' automatic bandwidth measurement capability was used to perform the 26dB bandwidth measurement. The "X" dB bandwidth parameter was set to $X = 26$. The automatic bandwidth measurement function also has the capability of simultaneously measuring the 99% occupied bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = approximately 1% of the emission bandwidth
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



Figure 7-1. Test Instrument & Measurement Setup

Test Notes

None.

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-05.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 14 of 105 V 10.6 10/27/2023

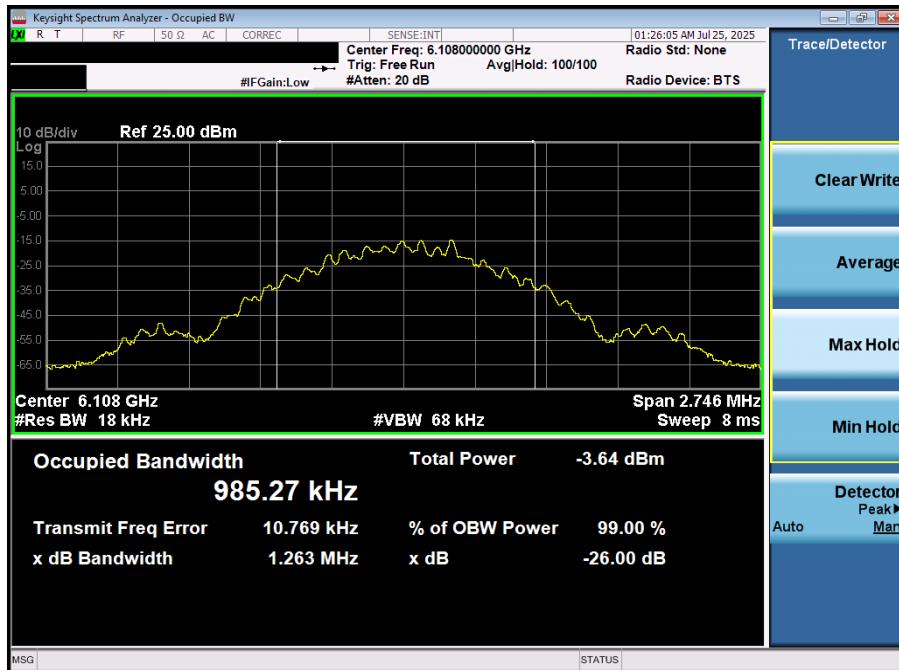


7.2.1 26dB & 99% Bandwidth Measurements

Frequency [MHz]	Data Rate [Mbps]	Mode	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]	Maximum Bandwidth Limit [MHz]	Pass / Fail
6108	1	NB UNII BDR	0.985	1.263	320	Pass
6264	1	NB UNII BDR	0.981	1.263	320	Pass
6420	1	NB UNII BDR	0.973	1.261	320	Pass
6108	1	NB UNII LE1M	1.072	1.338	320	Pass
6264	1	NB UNII LE1M	1.069	1.336	320	Pass
6420	1	NB UNII LE1M	1.073	1.344	320	Pass
6108	2	NB UNII LE2M	2.085	2.535	320	Pass
6264	2	NB UNII LE2M	2.089	2.536	320	Pass
6420	2	NB UNII LE2M	2.090	2.535	320	Pass
6108	4	NB UNII HDR4	2.271	2.632	320	Pass
6264	4	NB UNII HDR4	2.268	2.634	320	Pass
6420	4	NB UNII HDR4	2.267	2.630	320	Pass
6108	8	NB UNII HDR8	4.513	5.039	320	Pass
6264	8	NB UNII HDR8	4.499	5.078	320	Pass
6420	8	NB UNII HDR8	4.531	5.154	320	Pass
6108	4	NB UNII HDRp4	2.437	2.792	320	Pass
6264	4	NB UNII HDRp4	2.445	2.808	320	Pass
6420	4	NB UNII HDRp4	2.445	2.799	320	Pass
6108	8	NB UNII HDRp8	4.877	5.519	320	Pass
6264	8	NB UNII HDRp8	4.865	5.547	320	Pass
6420	8	NB UNII HDRp8	4.879	5.571	320	Pass

Table 7-2. Conducted BW Measurements

FCC ID: BCG-A3063 IC: 579C-A3063	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-05.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 15 of 105

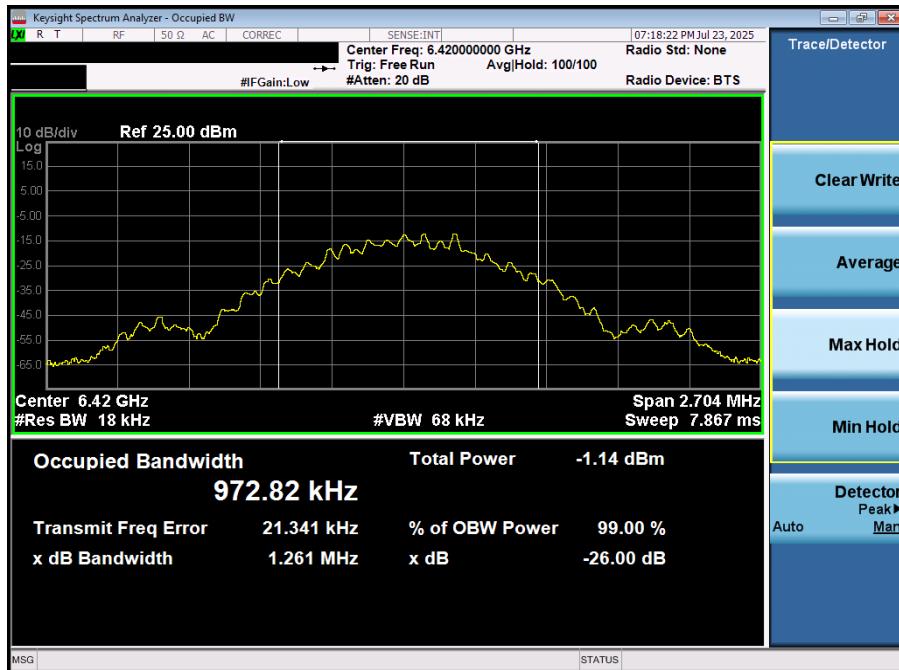


Plot 7-1. 26dB BW & 99% OBW (NB UNII BDR – 6108MHz)

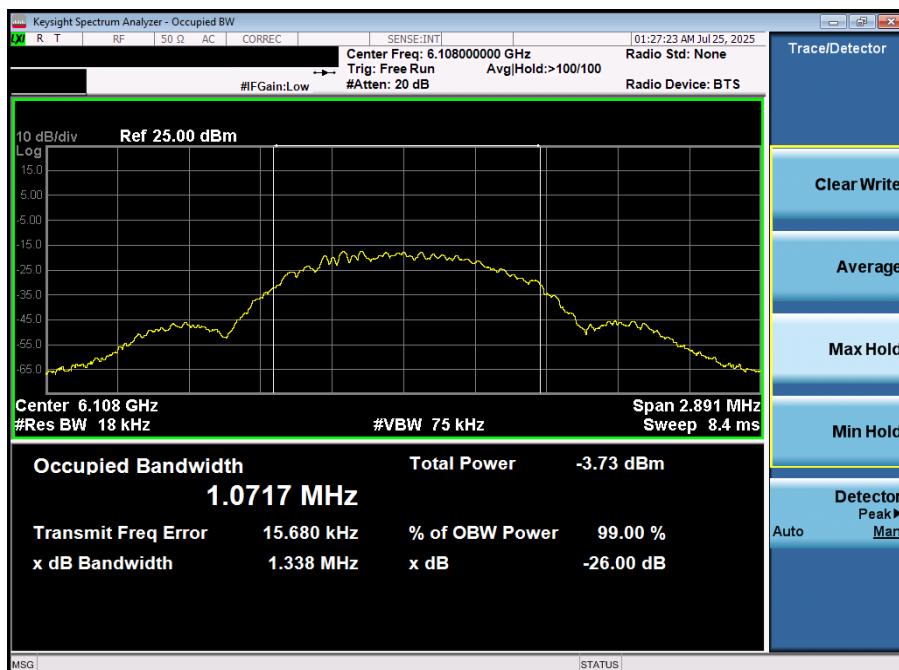


Plot 7-2. 26dB BW & 99% OBW (NB UNII BDR – 6264MHz)

FCC ID: BCG-A3063 IC: 579C-A3063		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-05.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 16 of 105



Plot 7-3. 26dB BW & 99% OBW (NB UNII BDR – 6420MHz)



Plot 7-4. 26dB BW & 99% OBW (NB UNII LE1M – 6108MHz)

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-05.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 17 of 105



Plot 7-5. 26dB BW & 99% OBW (NB UNII LE1M – 6264MHz)



Plot 7-6. 26dB BW & 99% OBW (NB UNII LE1M – 6420MHz)

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-05.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 18 of 105



Plot 7-7. 26dB BW & 99% OBW (NB UNII LE2M – 6108MHz)



Plot 7-8. 26dB BW & 99% OBW (NB UNII LE2M – 6264MHz)

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-05.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 19 of 105

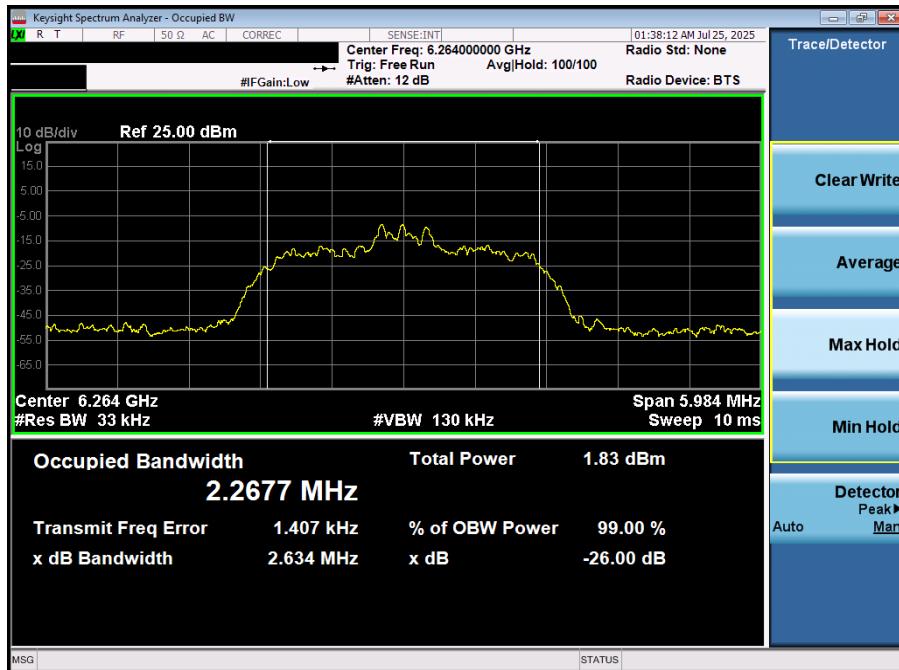


Plot 7-9. 26dB BW & 99% OBW (NB UNII LE2M – 6420MHz)

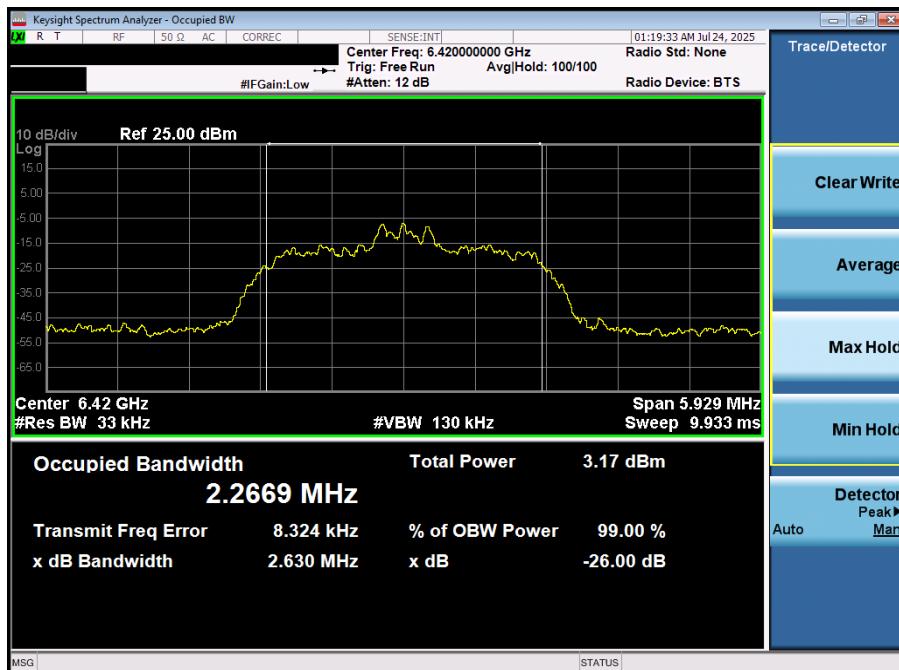


Plot 7-10. 26dB BW & 99% OBW (NB UNII HDR4 – 6108MHz)

FCC ID: BCG-A3063 IC: 579C-A3063		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-05.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 20 of 105



Plot 7-11. 26dB BW & 99% OBW (NB UNII HDR4 – 6264MHz)



Plot 7-12. 26dB BW & 99% OBW (NB UNII HDR4 – 6420MHz)

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-05.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 21 of 105



Plot 7-13. 26dB BW & 99% OBW (NB UNII HDR8 – 6108MHz)



Plot 7-14. 26dB BW & 99% OBW (NB UNII HDR8 – 6264MHz)

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-05.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 22 of 105

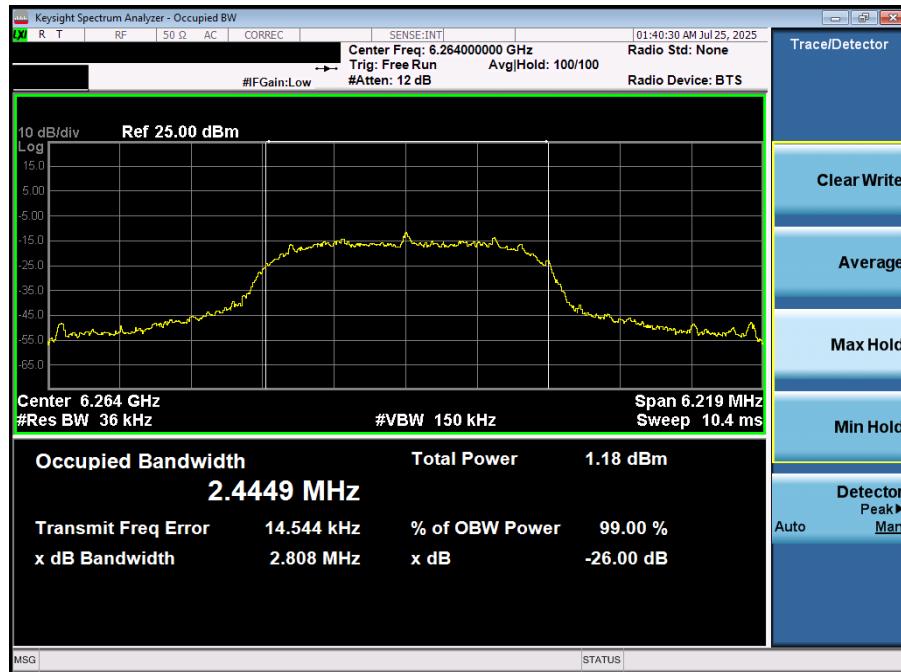


Plot 7-15. 26dB BW & 99% OBW (NB UNII HDR8 – 6420MHz)

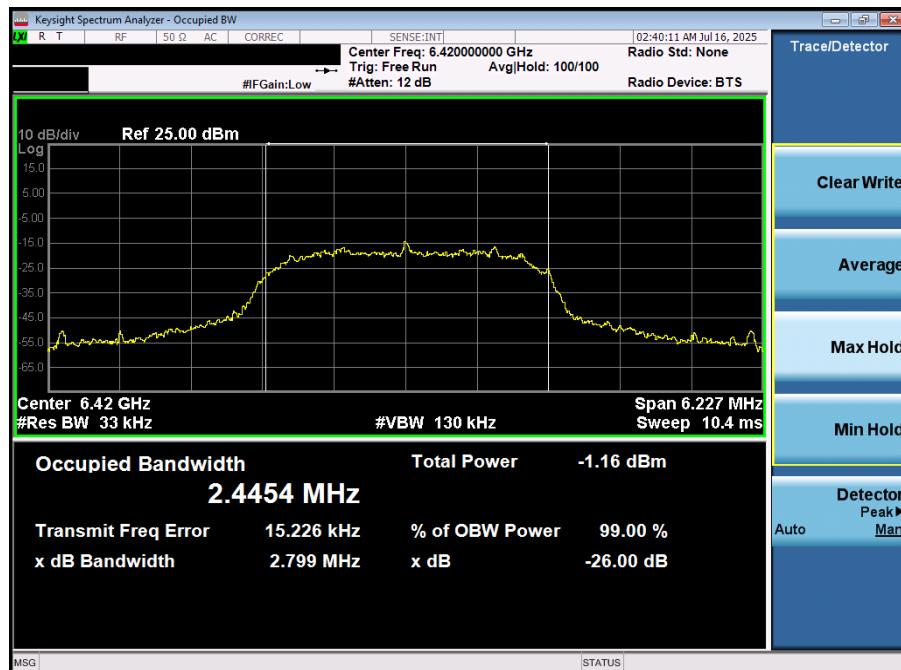


Plot 7-16. 26dB BW & 99% OBW (NB UNII HDRp4 – 6108MHz)

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-05.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 23 of 105

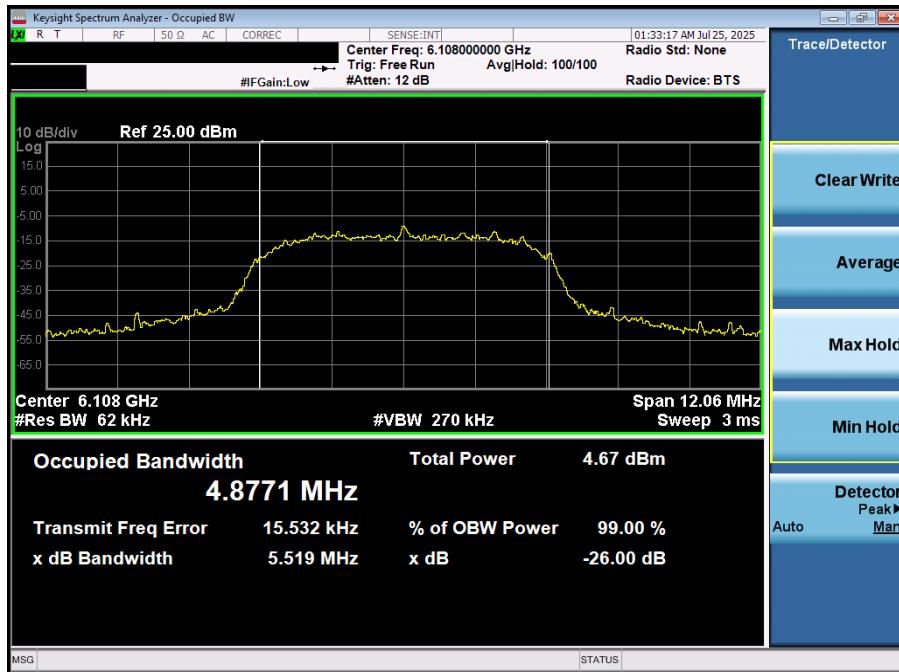


Plot 7-17. 26dB BW & 99% OBW (NB UNII HDRp4 – 6264MHz)



Plot 7-18. 26dB BW & 99% OBW (NB UNII HDRp4 – 6420MHz)

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-05.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 24 of 105



Plot 7-19. 26dB BW & 99% OBW (NB UNII HDRp8 – 6108MHz)



Plot 7-20. 26dB BW & 99% OBW (NB UNII HDRp8 – 6264MHz)

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-05.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 25 of 105



Plot 7-21. 26dB BW & 99% OBW (NB UNII HDRp8 – 6420MHz)

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-05.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 26 of 105

7.3 Conducted Output Power and Max EIRP Measurement

§15.407(a.9); RSS-248 [4.5.6]

Test Overview and Limits

A transmitter antenna terminal of the EUT is connected to the input of an RF pulse power sensor. Measurement is made using a broadband average power meter while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2020 and KDB 789033 D02 v02r01, and at the appropriate frequencies.

In the 5.925 – 7.125GHz band, the maximum e.i.r.p. over the frequency band of operation must not exceed 14dBm for very low power devices.

Test Procedure Used

ANSI C63.10-2020 – Subclause 12.4.3.2 Method PM-G
KDB 789033 D02 v02r01 – Section E)3)b) Method PM-G

Test Settings

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



Figure 7-2. Test Instrument & Measurement Setup

Test Notes

None

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-05.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 27 of 105 V 10.6 10/27/2023

7.3.1 Conducted Output Power Measurements

Frequency [MHz]	Detector	Mode	Conducted Powers [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
6108	AVG	NB UNII BDR	-4.62	-1.67	-6.29	14.00	-20.29
6264	AVG	NB UNII BDR	-4.73	-2.03	-6.76	14.00	-20.76
6420	AVG	NB UNII BDR	-3.94	-3.15	-7.09	14.00	-21.09
6108	AVG	NB UNII LE1M	-5.32	-1.67	-6.99	14.00	-20.99
6264	AVG	NB UNII LE1M	-4.85	-2.03	-6.88	14.00	-20.88
6420	AVG	NB UNII LE1M	-3.55	-3.15	-6.70	14.00	-20.70
6108	AVG	NB UNII LE2M	-5.34	-1.67	-7.01	14.00	-21.01
6264	AVG	NB UNII LE2M	-4.84	-2.03	-6.87	14.00	-20.87
6420	AVG	NB UNII LE2M	-3.54	-3.15	-6.69	14.00	-20.69
6108	AVG	NB UNII HDR4	-2.09	-1.67	-3.76	14.00	-17.76
6264	AVG	NB UNII HDR4	-2.30	-2.03	-4.33	14.00	-18.33
6420	AVG	NB UNII HDR4	-1.13	-3.15	-4.28	14.00	-18.28
6108	AVG	NB UNII HDR8	-0.17	-1.67	-1.84	14.00	-15.84
6264	AVG	NB UNII HDR8	0.15	-2.03	-1.88	14.00	-15.88
6420	AVG	NB UNII HDR8	0.76	-3.15	-2.39	14.00	-16.39
6108	AVG	NB UNII HDRp4	-2.62	-1.67	-4.29	14.00	-18.29
6264	AVG	NB UNII HDRp4	-2.65	-2.03	-4.68	14.00	-18.68
6420	AVG	NB UNII HDRp4	-1.40	-3.15	-4.55	14.00	-18.55
6108	AVG	NB UNII HDRp8	0.01	-1.67	-1.66	14.00	-15.66
6264	AVG	NB UNII HDRp8	0.44	-2.03	-1.59	14.00	-15.59
6420	AVG	NB UNII HDRp8	1.26	-3.15	-1.89	14.00	-15.89

Table 7-3. Maximum E.I.R.P.

Sample e.i.r.p. Calculation:

At 6108 MHz for NB UNII BDR, the average conducted output power was measured to be -4.62 dBm with antenna gain of -1.67 dBi.

$$\text{e.i.r.p. (dBm)} = \text{Conducted Power (dBm)} + \text{Ant gain (dBi)}$$

$$-4.62 \text{ dBm} + (-1.67 \text{ dBi}) = -6.29 \text{ dBm}$$

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-05.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 28 of 105

7.4 Maximum Power Spectral Density

§15.407(a.9); RSS-248 [4.5.6]

Test Overview and Limit

The spectrum analyzer was connected to the antenna terminal while the EUT was operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2020 and KDB 789033 D02 v02r01, and at the appropriate frequencies. Method SA-1, as defined in ANSI C63.10-2020 and KDB 789033 D02 v02r01, was used to measure the power spectral density.

In the 5.925 – 7.125GHz band, the maximum permissible power spectral density must not exceed -5 dBm e.i.r.p in any 1-megahertz band for Very Low Power (VLP) devices.

Test Procedure Used

ANSI C63.10-2020 – Section 12.4.2.2
KDB 789033 D02 v02r01 – Section F

Test Settings

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Set span to encompass the entire 99% OBW of the signal
3. RBW = 1MHz
4. VBW \geq 3MHz
5. Number of sweep points $\geq 2 \times (\text{span}/\text{RBW})$
6. Sweep time = auto
7. Detector = power averaging (RMS)
8. Trigger was set to free run for all modes
9. Trace was averaged over 100 sweeps
10. The peak search function of the spectrum analyzer was used to find the peak of the spectrum.

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



Figure 7-3. Test Instrument & Measurement Setup

Test Notes

None.

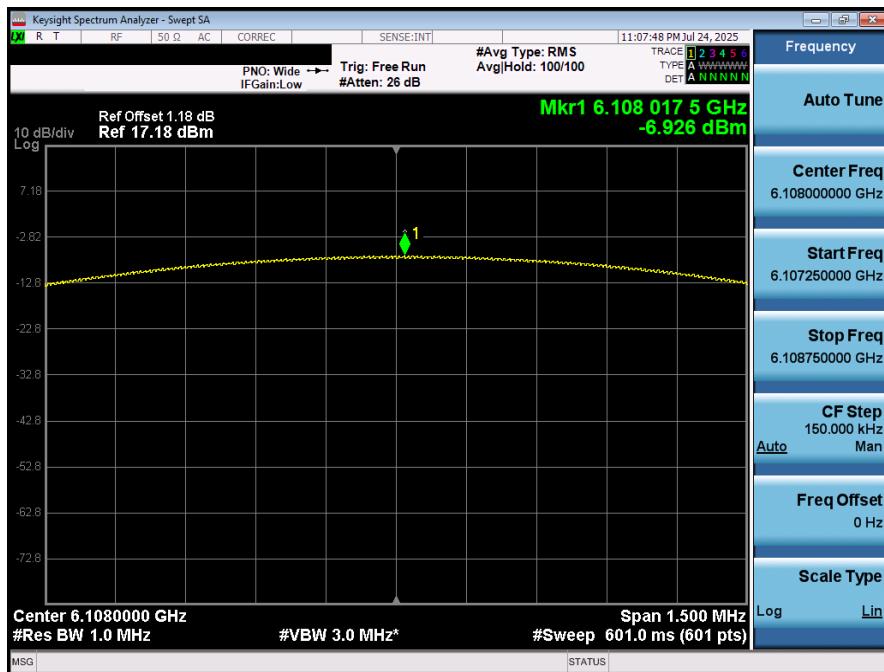
FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-05.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 29 of 105 V 10.6 10/27/2023

7.4.1 Power Spectral Density Measurements

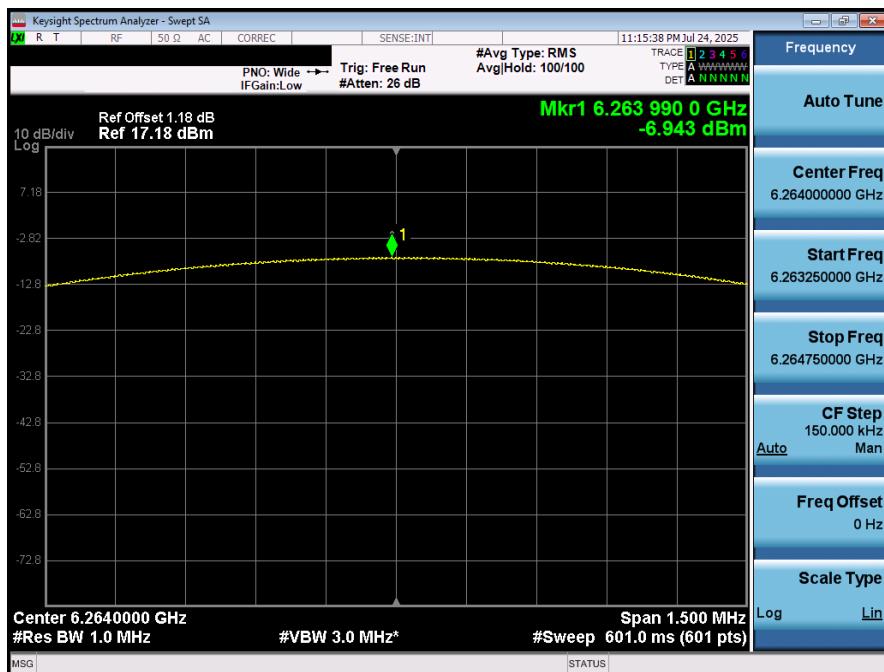
Frequency [MHz]	Data Rate [Mbps]	Mode	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p. Density [dBm/MHz]	Max Permissible Power Density [dBm/MHz]	Margin [dB]	Verdict
6108	1.0	NB UNII BDR	-6.93	-1.67	-8.60	-5.00	-3.60	PASS
6264	1.0	NB UNII BDR	-6.94	-2.03	-8.97	-5.00	-3.97	PASS
6420	1.0	NB UNII BDR	-6.47	-3.15	-9.62	-5.00	-4.62	PASS
6108	1.0	NB UNII LE1M	-8.31	-1.67	-9.98	-5.00	-4.98	PASS
6264	1.0	NB UNII LE1M	-7.99	-2.03	-10.02	-5.00	-5.02	PASS
6420	1.0	NB UNII LE1M	-6.62	-3.15	-9.77	-5.00	-4.77	PASS
6108	2.0	NB UNII LE2M	-8.47	-1.67	-10.14	-5.00	-5.14	PASS
6264	2.0	NB UNII LE2M	-8.57	-2.03	-10.60	-5.00	-5.60	PASS
6420	2.0	NB UNII LE2M	-8.03	-3.15	-11.18	-5.00	-6.18	PASS
6108	4.0	NB UNII HDR4	-6.69	-1.67	-8.36	-5.00	-3.36	PASS
6264	4.0	NB UNII HDR4	-6.59	-2.03	-8.62	-5.00	-3.62	PASS
6420	4.0	NB UNII HDR4	-5.87	-3.15	-9.02	-5.00	-4.02	PASS
6108	8.0	NB UNII HDR8	-6.97	-1.67	-8.64	-5.00	-3.64	PASS
6264	8.0	NB UNII HDR8	-7.09	-2.03	-9.12	-5.00	-4.12	PASS
6420	8.0	NB UNII HDR8	-6.23	-3.15	-9.38	-5.00	-4.38	PASS
6108	4.0	NB UNII HDRp4	-7.43	-1.67	-9.10	-5.00	-4.10	PASS
6264	4.0	NB UNII HDRp4	-7.41	-2.03	-9.44	-5.00	-4.44	PASS
6420	4.0	NB UNII HDRp4	-6.62	-3.15	-9.77	-5.00	-4.77	PASS
6108	8.0	NB UNII HDRp8	-7.62	-1.67	-9.29	-5.00	-4.29	PASS
6264	8.0	NB UNII HDRp8	-8.35	-2.03	-10.38	-5.00	-5.38	PASS
6420	8.0	NB UNII HDRp8	-8.40	-3.15	-11.55	-5.00	-6.55	PASS

Table 7-4. Power Spectral Density Measurements

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-05.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 30 of 105



Plot 7-22. PSD (NB UNII BDR – 6108MHz)



Plot 7-23. PSD (NB UNII BDR – 6264MHz)

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-05.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 31 of 105


Plot 7-24. PSD (NB UNII BDR – 6420MHz)

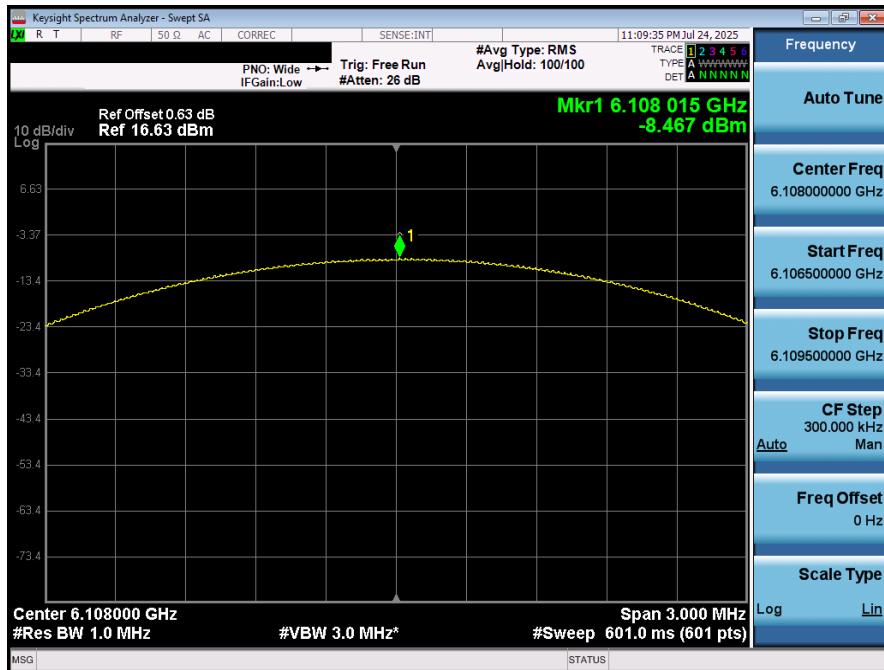
Plot 7-25. PSD (NB UNII LE1M – 6108MHz)

FCC ID: BCG-A3063 IC: 579C-A3063		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-05.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 32 of 105


Plot 7-26. PSD (NB UNII LE1M – 6264MHz)

Plot 7-27. PSD (NB UNII LE1M – 6420MHz)

FCC ID: BCG-A3063		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-05.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 33 of 105

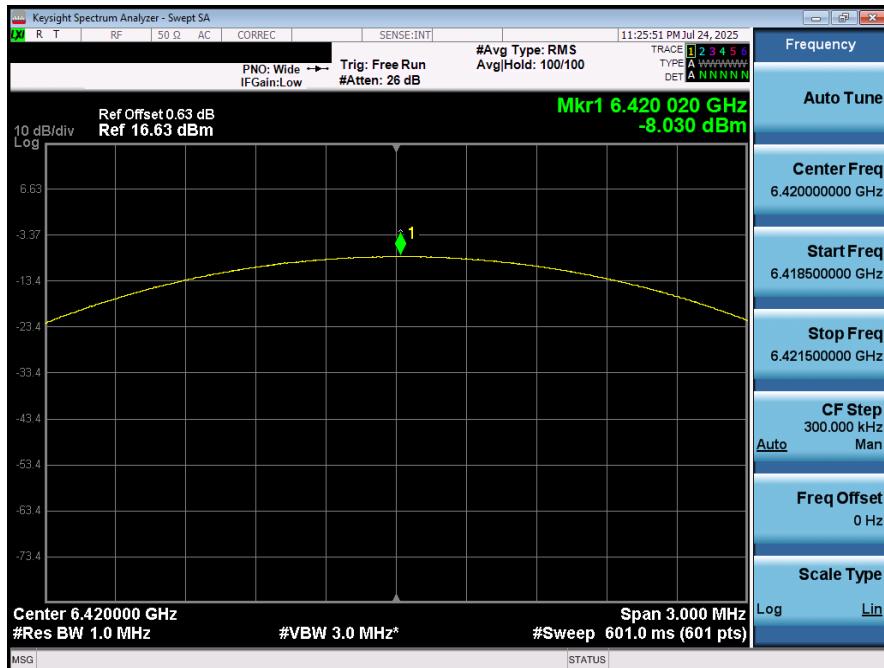


Plot 7-28. PSD (NB UNII LE2M – 6108MHz)

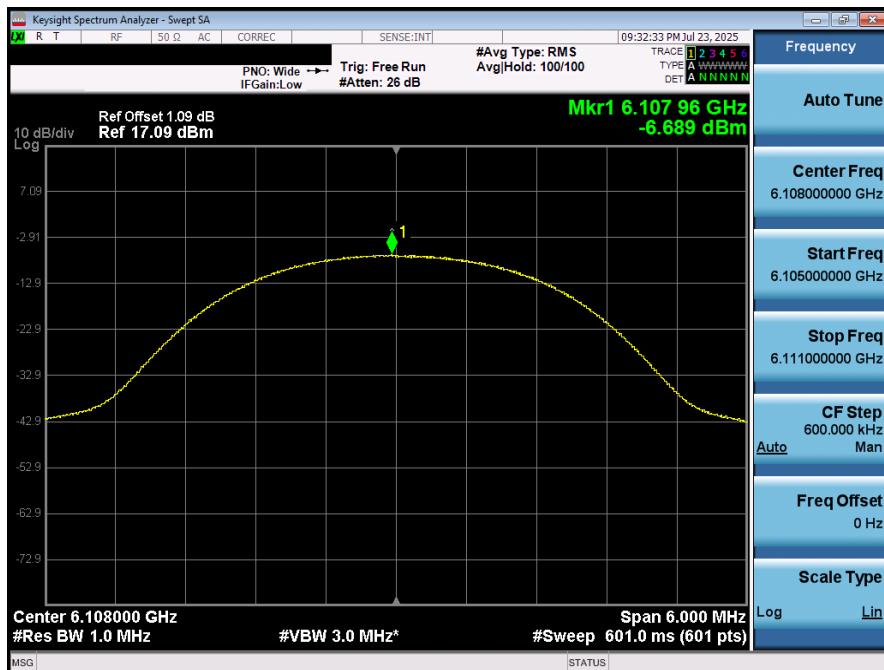


Plot 7-29. PSD (NB UNII LE2M – 6264MHz)

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-05.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 34 of 105

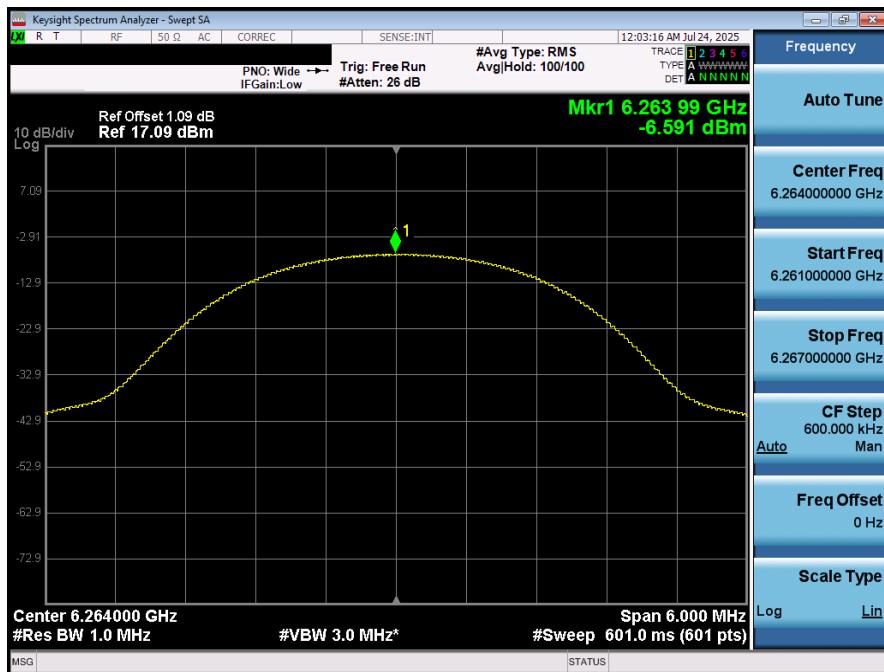


Plot 7-30. PSD (NB UNII LE2M – 6420MHz)

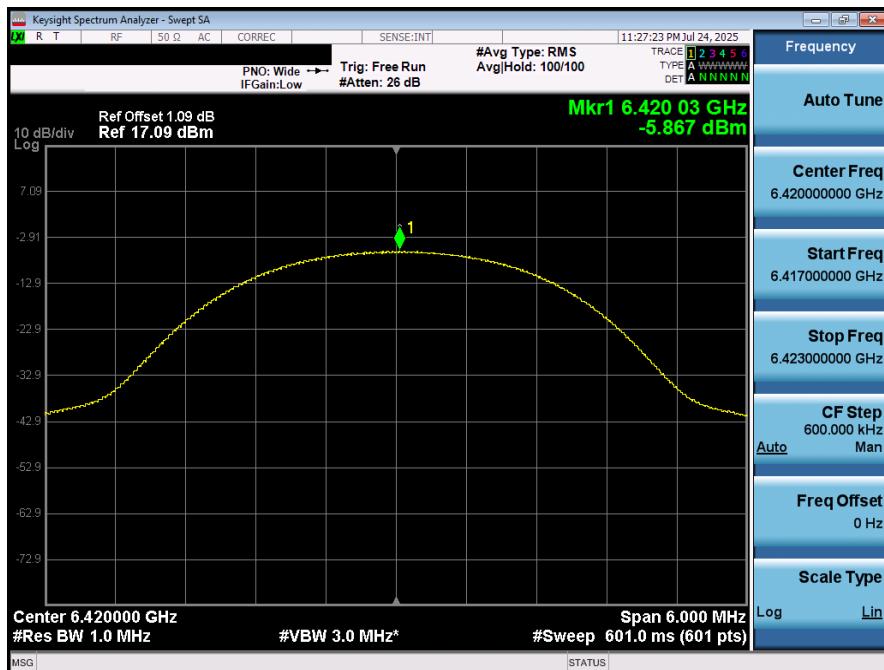


Plot 7-31. PSD (NB UNII HDR4 – 6108MHz)

FCC ID: BCG-A3063		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-05.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 35 of 105

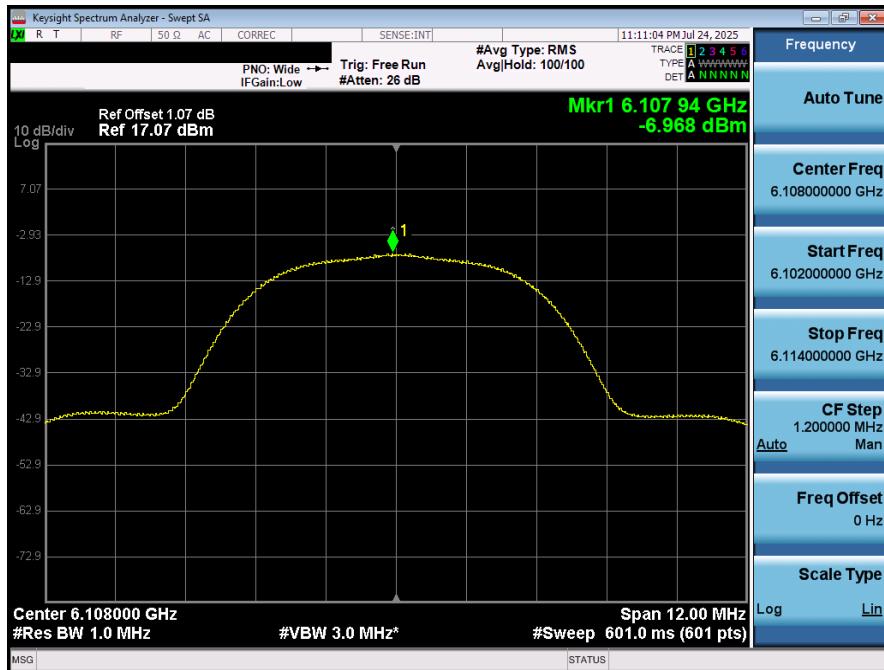


Plot 7-32. PSD (NB UNII HDR4 – 6264MHz)

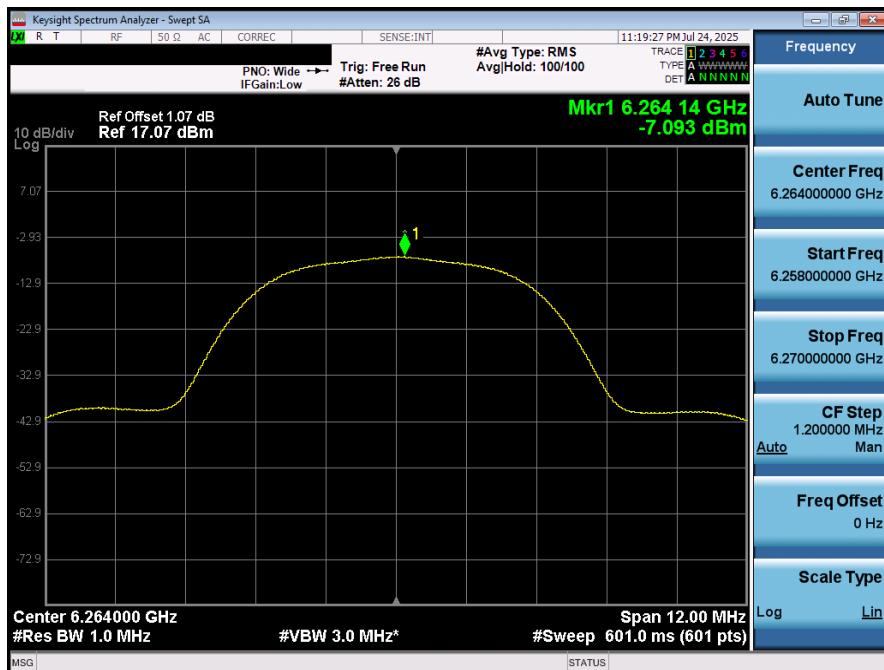


Plot 7-33. PSD (NB UNII HDR4 – 6420MHz)

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-05.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 36 of 105

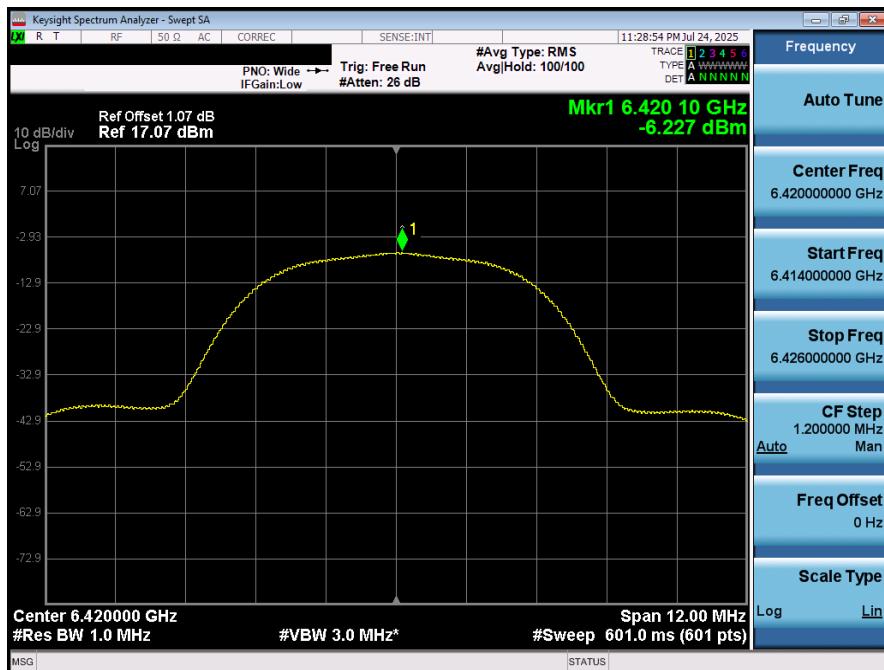


Plot 7-34. PSD (NB UNII HDR8 – 6108MHz)

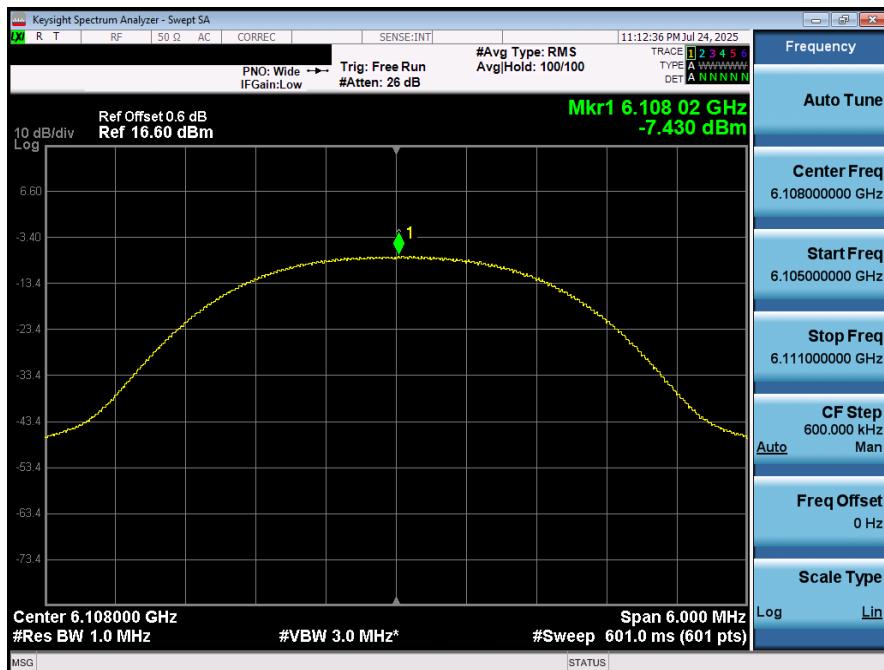


Plot 7-35. PSD (NB UNII HDR8 – 6264MHz)

FCC ID: BCG-A3063 IC: 579C-A3063		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-05.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 37 of 105

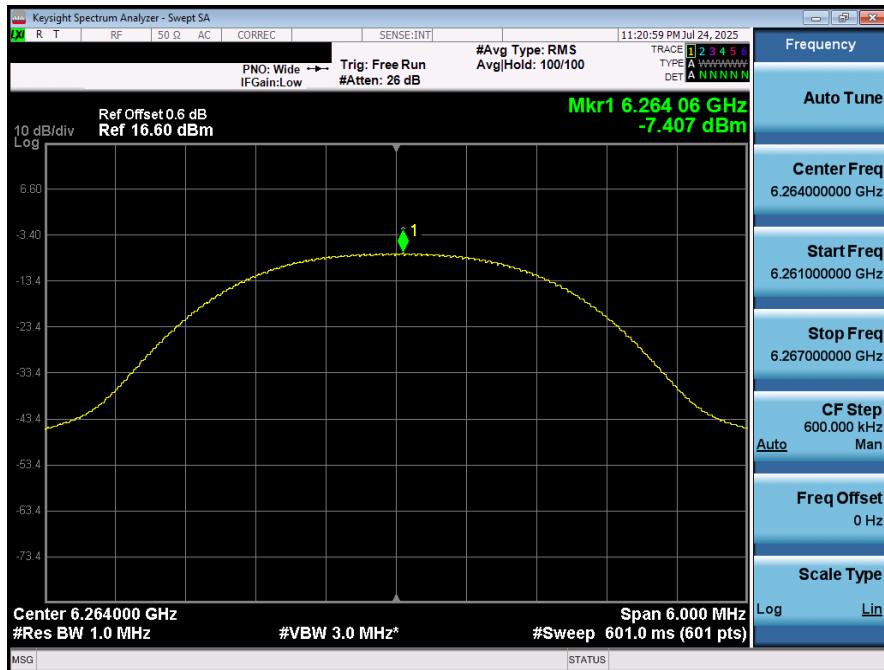


Plot 7-36. PSD (NB UNII HDR8 – 6420MHz)

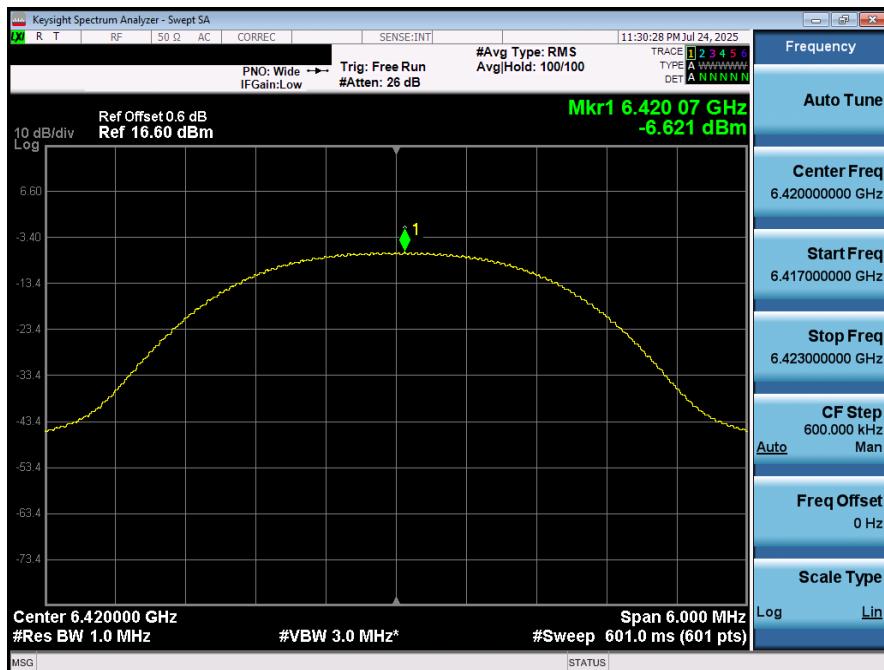


Plot 7-37. PSD (NB UNII HDRp4 – 6108MHz)

FCC ID: BCG-A3063		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-05.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 38 of 105

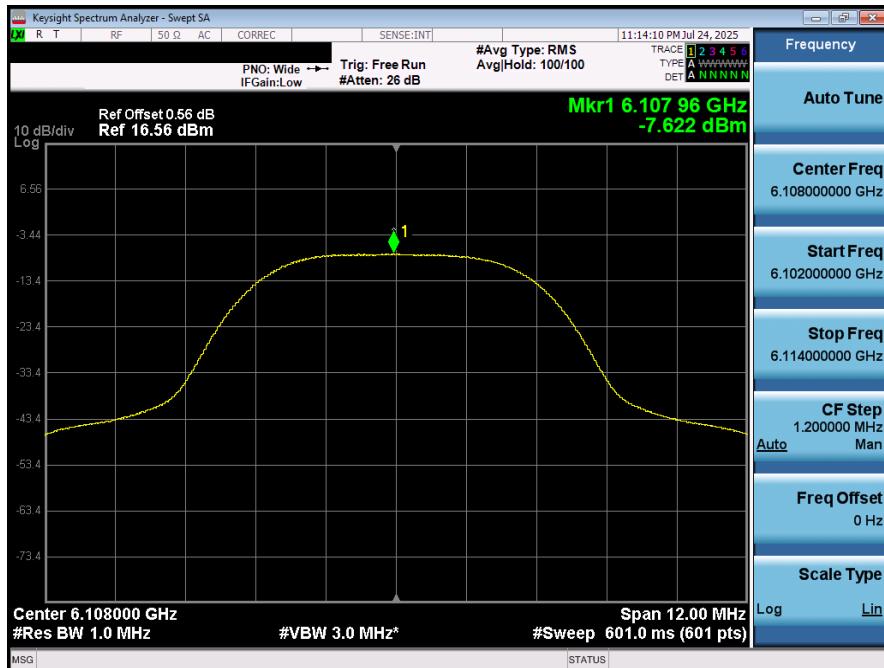


Plot 7-38. PSD (NB UNII HDRp4 – 6264MHz)

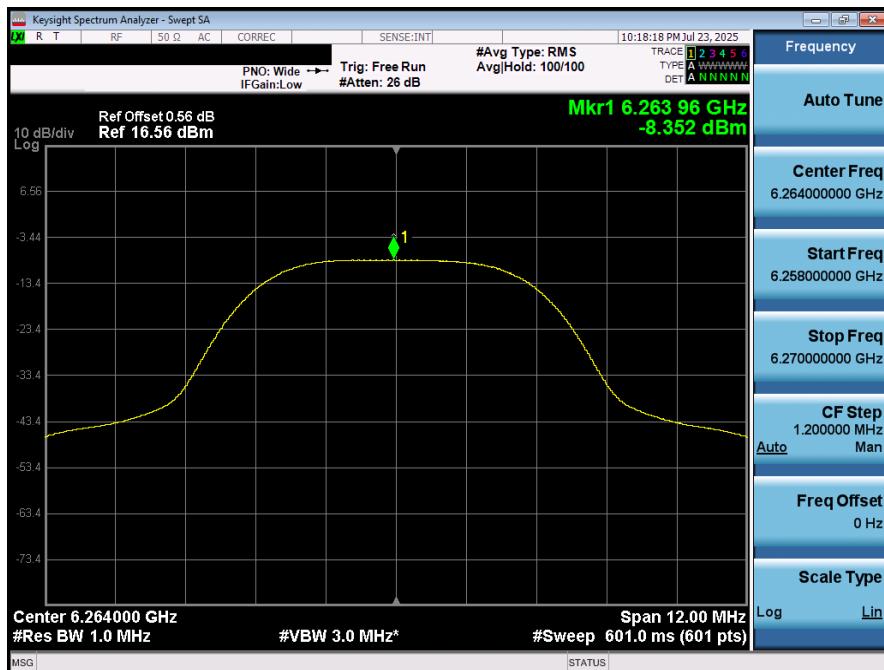


Plot 7-39. PSD (NB UNII HDRp4 – 6420MHz)

FCC ID: BCG-A3063		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-05.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 39 of 105

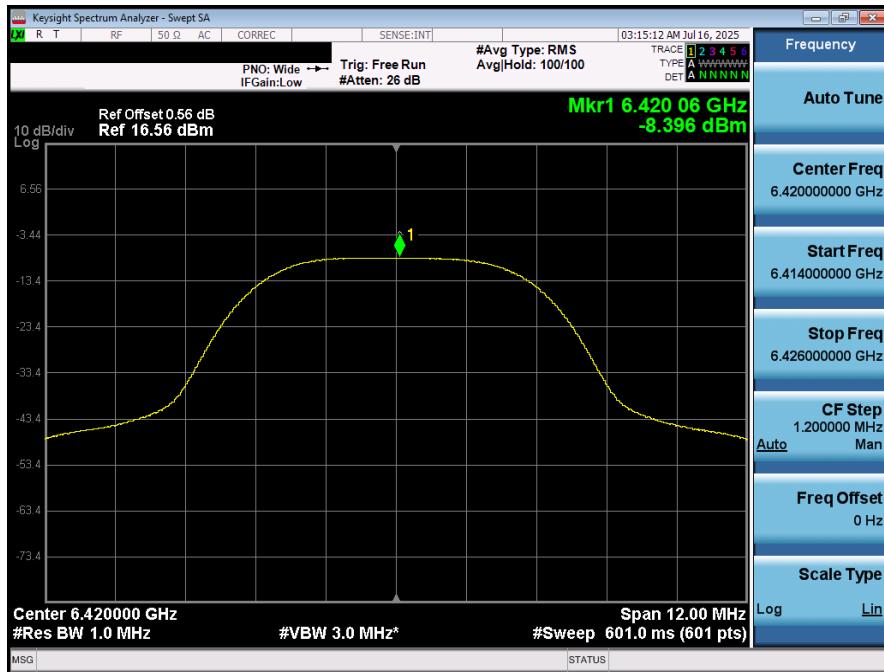


Plot 7-40. PSD (NB UNII HDRp8 – 6108MHz)



Plot 7-41. PSD (NB UNII HDRp8 – 6264MHz)

FCC ID: BCG-A3063		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-42. PSD (NB UNII HDRp8 – 6420MHz)

Sample e.i.r.p Power Spectral Density Calculation:

At 6108 MHz for NB UNII BDR, the average power density was calculated to be -6.93 dBm with antenna gain of -1.67 dBi.

$$\text{e.i.r.p. Power Spectral Density(dBm)} = \text{Power Spectral Density (dBm)} + \text{Ant gain (dBi)}$$

$$(-6.93) \text{ dBm} + (-1.67) \text{ dBi} = (-8.60) \text{ dBm}$$

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.5 In-Band Emissions

§15.407(b.7); RSS-248 [4.6.2]

Test Overview and Limit

The spectrum analyzer was connected to the antenna terminal while the EUT was operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2020 and KDB 789033 D02 v02r01, and at the appropriate frequencies.

For transmitters operating within the 5.925-7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

Test Procedure Used

ANSI C63.10-2020 – Section 12.4.2.2

KDB 987594 D02 v03 – Section J

Test Settings

1. Connect output of the antenna port to a spectrum analyzer or EMI receiver, with appropriate attenuation, as to not damage the instrumentation.
2. Set the reference level of the measuring equipment in accordance with procedure 4.1.6.2 of ANSI C63.10-2020.
3. Measure the 26 dB EBW using the test procedure 12.5.2 of ANSI C63.10-2020. (This will be used to determine the channel edge.)
4. Measure the power spectral density (which will be used for emissions mask reference) using the following procedure:
 - a) Set the span to encompass the entire 26 dB EBW of the signal.
 - b) Set RBW = same RBW used for 26 dB EBW measurement.
 - c) Set VBW $\geq 3 \times$ RBW
 - d) Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$.
 - e) Sweep time = auto.
 - f) Detector = RMS (i.e., power averaging)
 - g) Trace average at least 100 traces in power averaging (rms) mode.
 - h) Use the peak search function on the instrument to find the peak of the spectrum.
5. For the purposes of developing the emission mask, the channel bandwidth is defined as the 26 dB EBW.
6. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:
 - i) Suppressed by 20 dB at 1 MHz outside of the channel edge. (The channel edge is defined as the 26-dB point on either side of the carrier center frequency.)
 - j) Suppressed by 28 dB at one channel bandwidth from the channel center.
 - k) Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.
7. Adjust the span to encompass the entire mask as necessary.
8. Clear trace.
9. Trace average at least 100 traces in power averaging (rms) mode.
10. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask.

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Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



Figure 7-4. Test Instrument & Measurement Setup

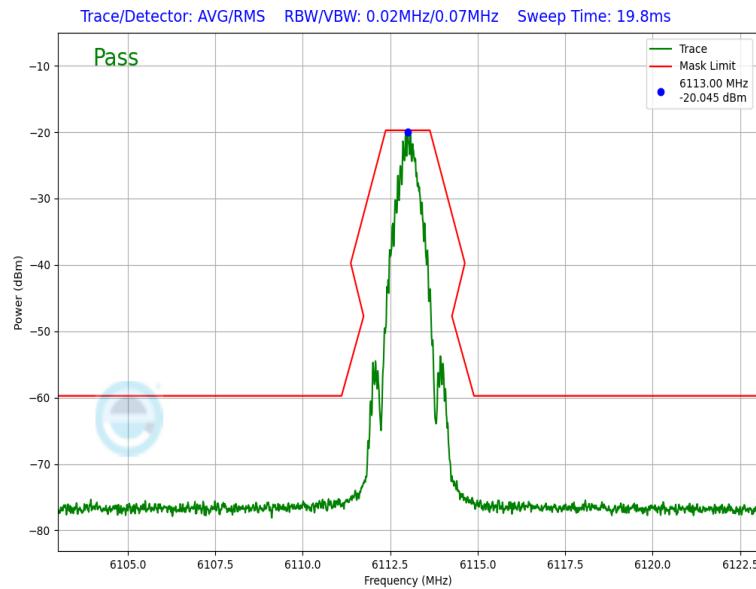
Test Notes

None.

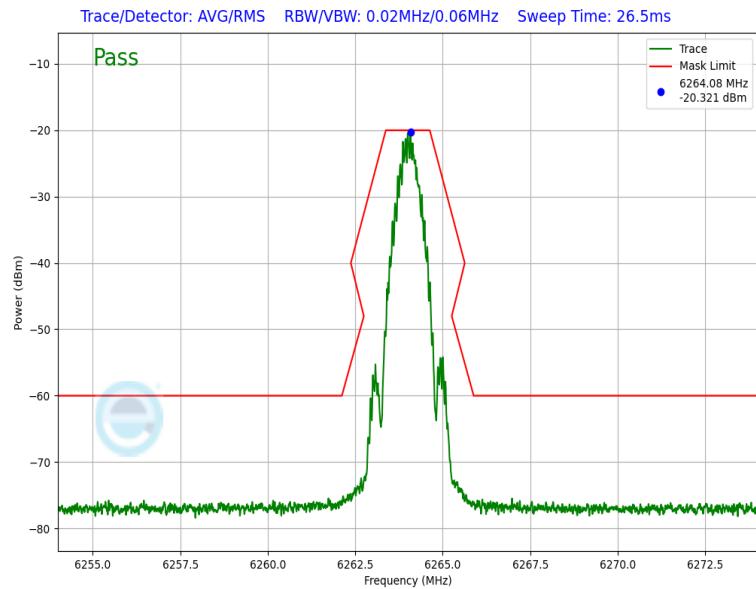
FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-05.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 43 of 105

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7.5.1 In-Band Emission Measurements

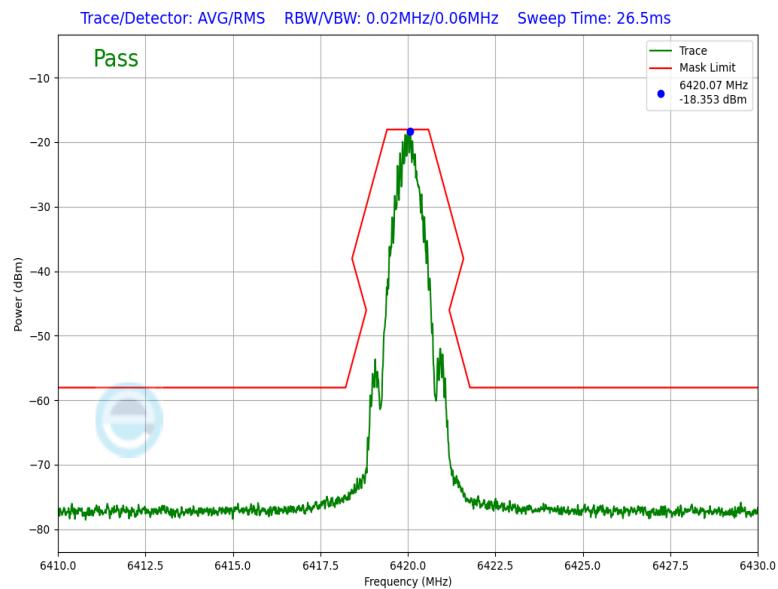


Plot 7-43. In Band Emission Plot (NB UNII BDR – 6108MHz)

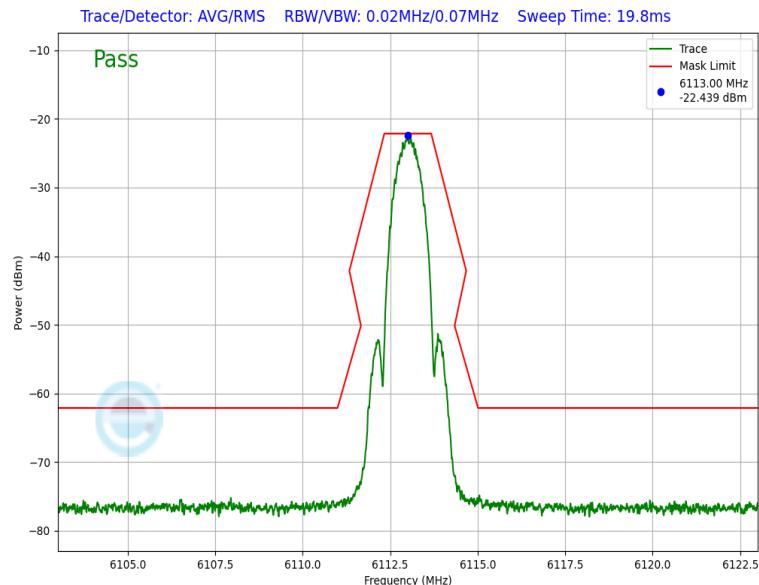


Plot 7-44. In Band Emission Plot (NB UNII BDR – 6264MHz)

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-05.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 44 of 105

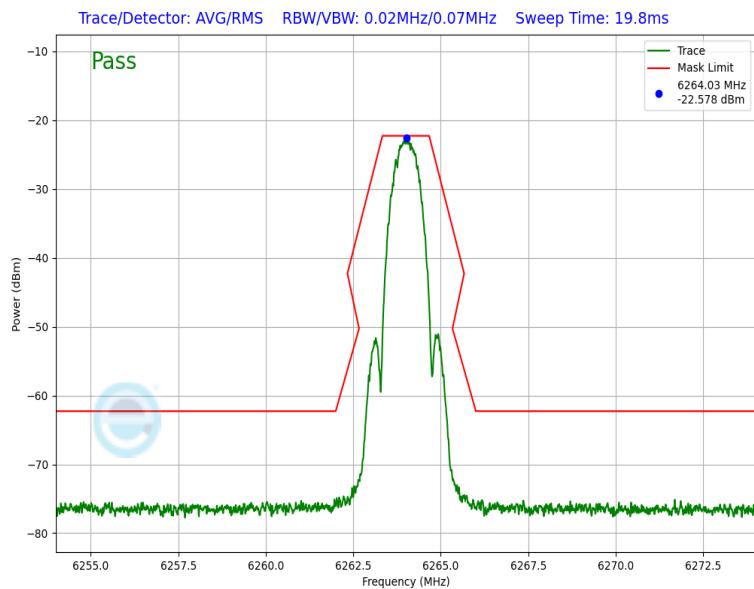


Plot 7-45. In Band Emission Plot (NB UNII BDR – 6420MHz)

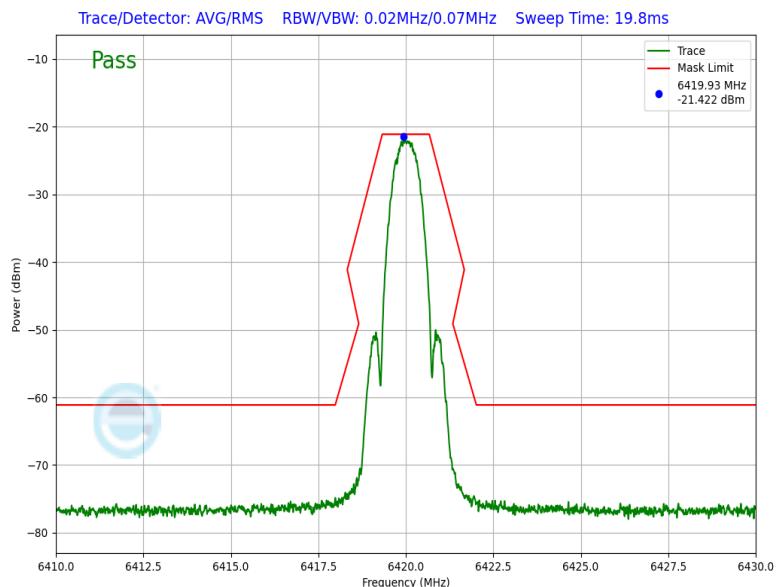


Plot 7-46. In Band Emission Plot (NB UNII LE1M – 6108MHz)

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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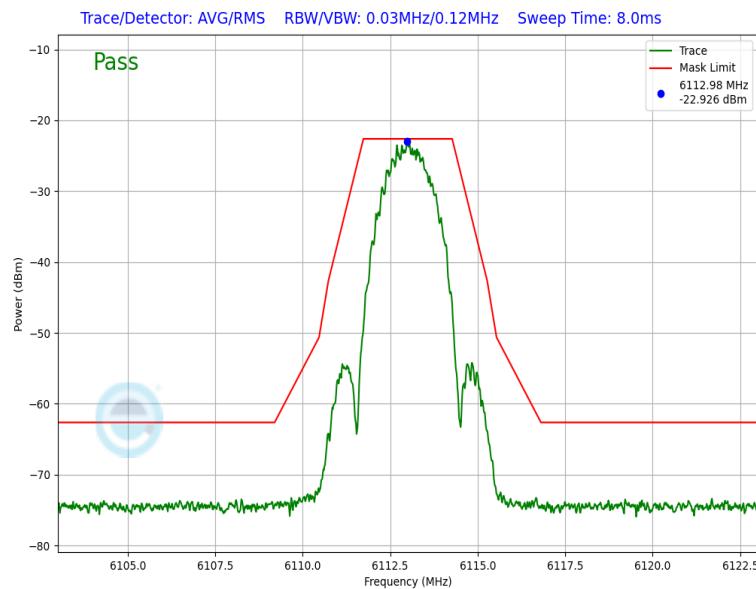


Plot 7-47. In Band Emission Plot (NB UNII LE1M – 6264MHz)

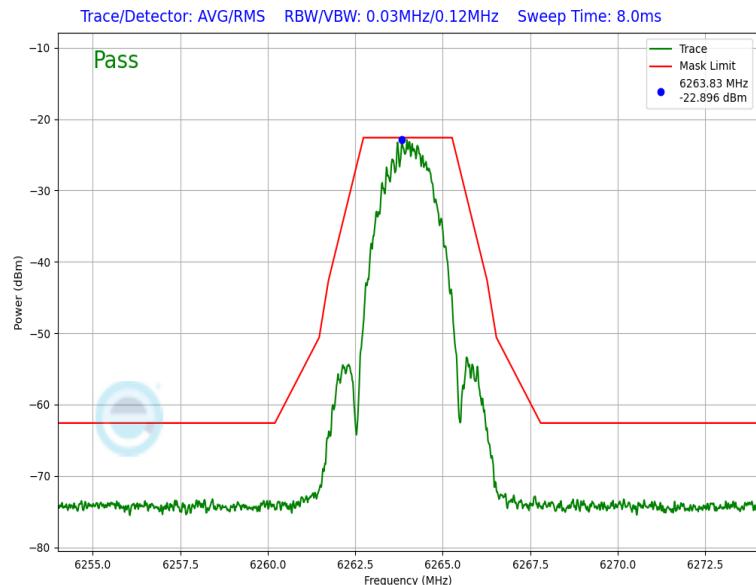


Plot 7-48. In Band Emission Plot (NB UNII LE1M – 6420MHz)

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-05.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 46 of 105

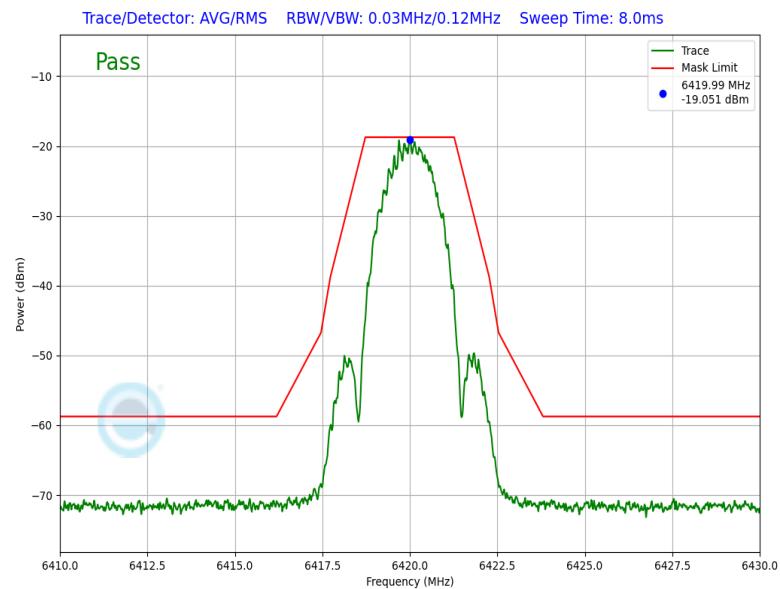


Plot 7-49. In Band Emission Plot (NB UNII LE2M – 6108MHz)

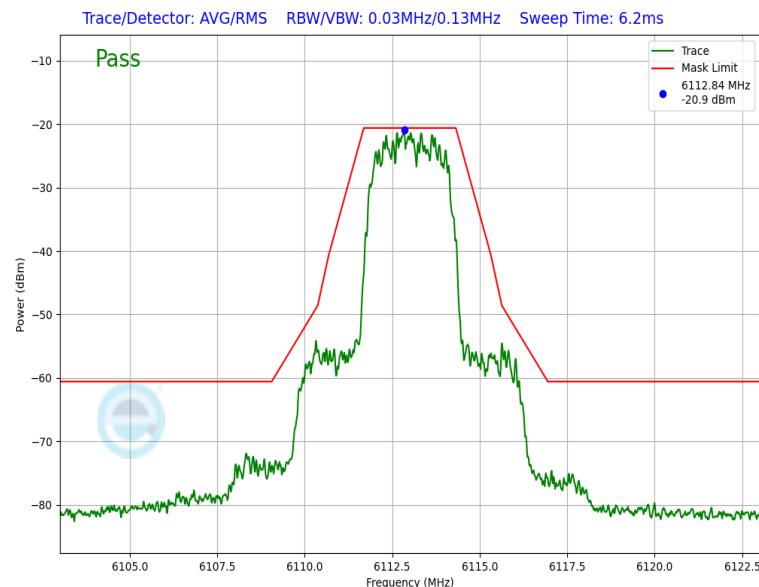


Plot 7-50. In Band Emission Plot (NB UNII LE2M – 6264MHz)

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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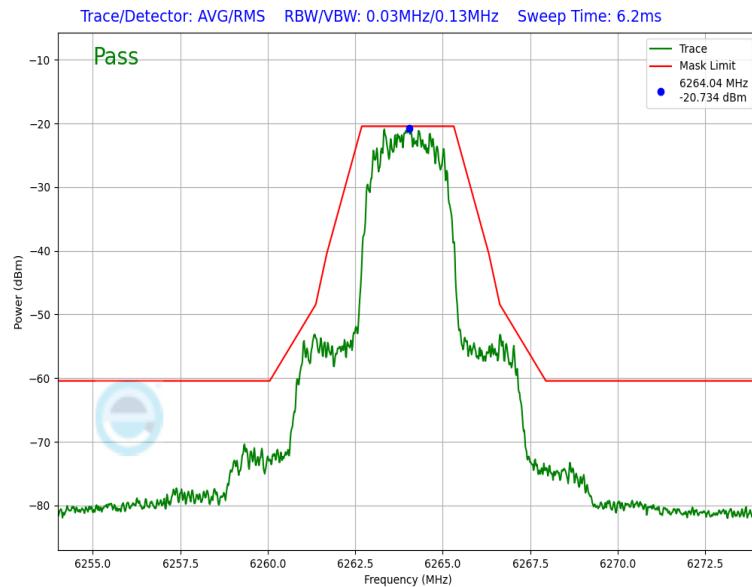


Plot 7-51. In Band Emission Plot (NB UNII LE2M – 6420MHz)

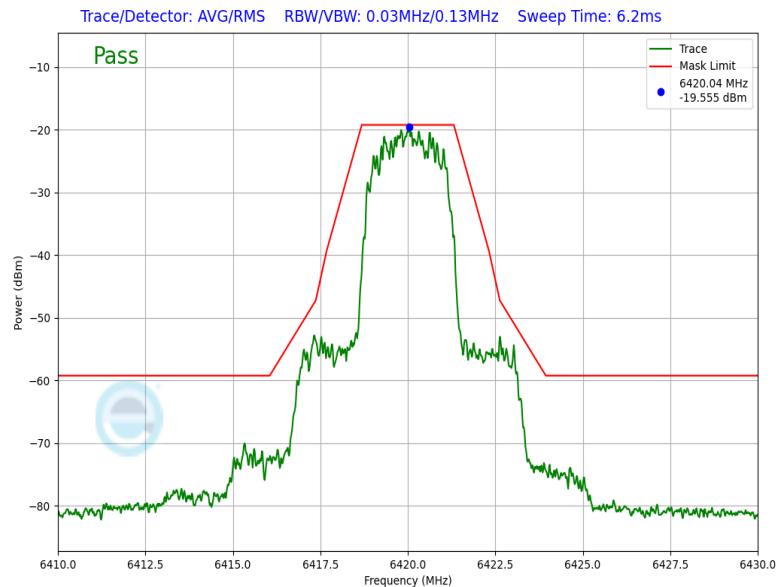


Plot 7-52. In Band Emission Plot (NB UNII HDR4 – 6108MHz)

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-05.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 48 of 105

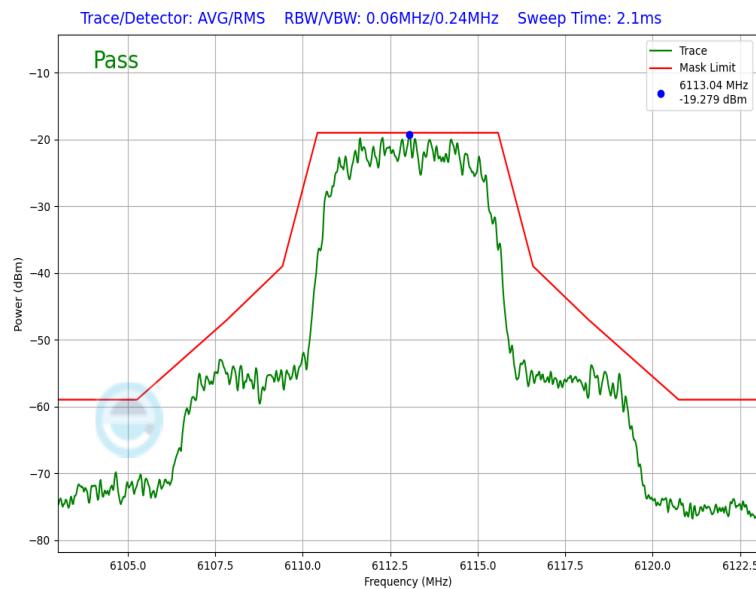


Plot 7-53. In Band Emission Plot (NB UNII HDR4 – 6264MHz)

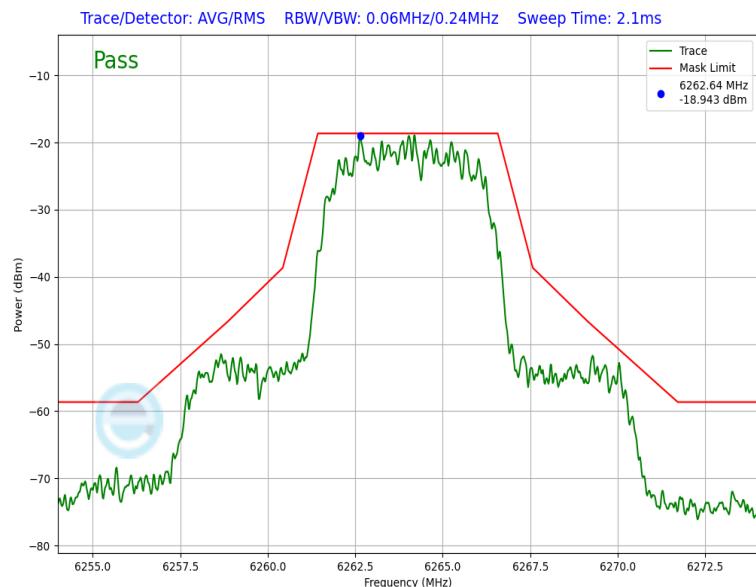


Plot 7-54. In Band Emission Plot (NB UNII HDR4 – 6420MHz)

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-05.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 49 of 105

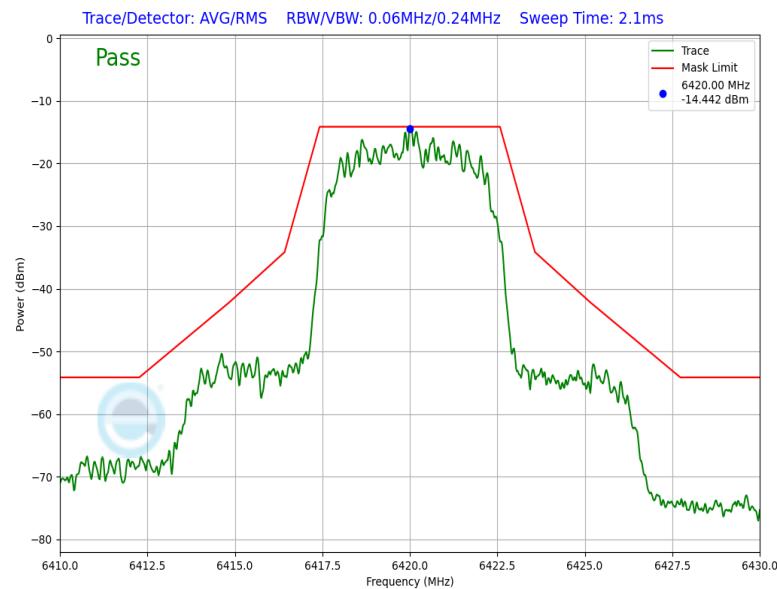


Plot 7-55. In Band Emission Plot (NB UNII HDR8 – 6108MHz)

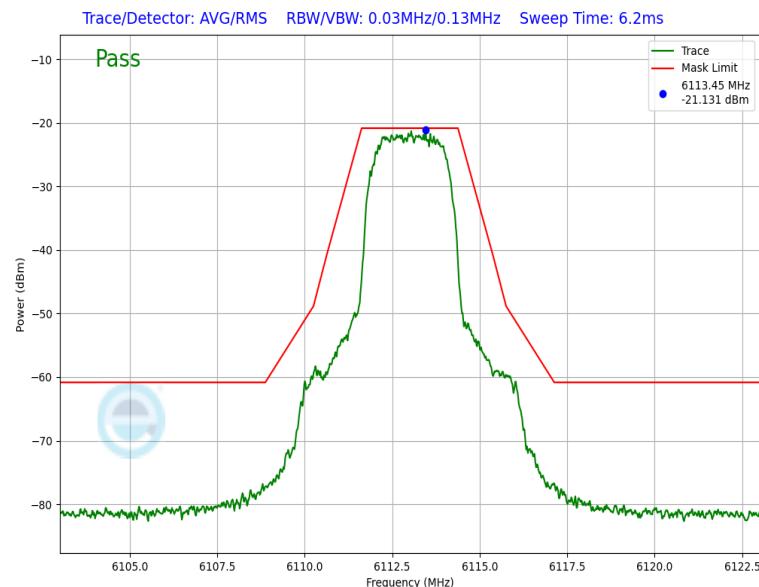


Plot 7-56. In Band Emission Plot (NB UNII HDR8 – 6264MHz)

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-05.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 50 of 105

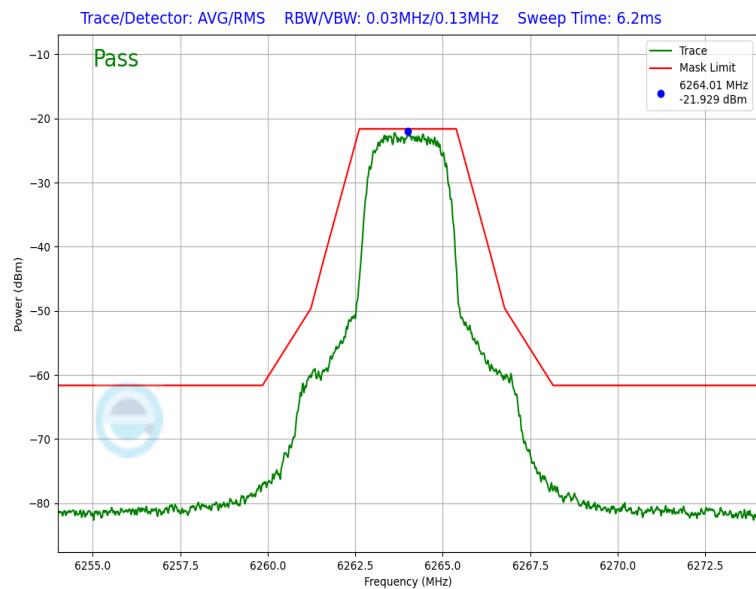


Plot 7-57. In Band Emission Plot (NB UNII HDR8 – 6420MHz)

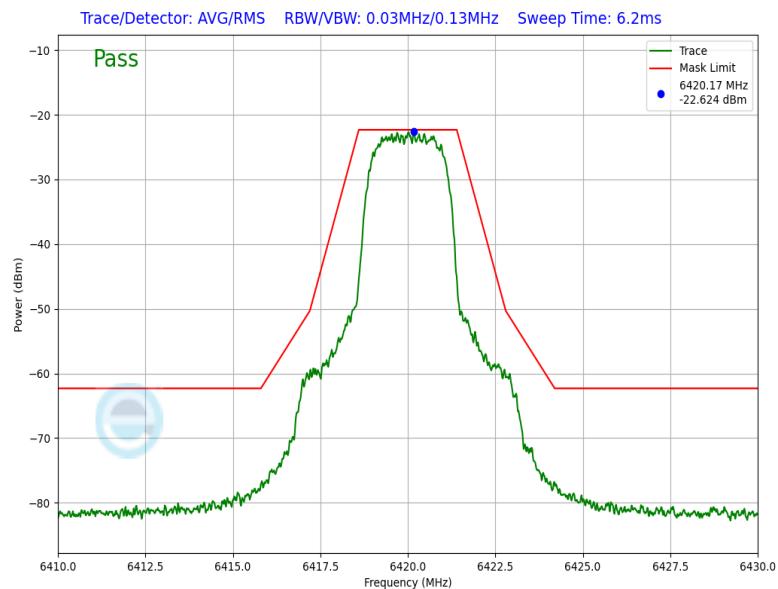


Plot 7-58. In Band Emission Plot (NB UNII HDRp4 – 6108MHz)

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-59. In Band Emission Plot (NB UNII HDRp4 – 6264MHz)



Plot 7-60. In Band Emission Plot (NB UNII HDRp4 – 6420MHz)

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-05.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 52 of 105