



Element Materials Technology

(Formerly PCTEST)

18855 Adams Court, Morgan Hill, CA 95037 USA

Tel. 408.538.5600

<http://www.element.com>



MEASUREMENT REPORT

FCC PART 15.247 / ISED RSS-247 Bluetooth (HDR)

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:

8/13/2025

Test Site/Location:

Element Materials Technology, Morgan Hill, CA, USA

Test Report Serial No.:

1C2504170043-03-R1.BCG

FCC ID: BCG-A3063

IC: 579C-A3063

APPLICANT: Apple Inc.

Application Type: Certification

Model/HVIN: A3063

EUT Type: Wireless Right Earbud

Max. RF Output Power: 38.107 mW (15.81 dBm) Peak Conducted

Frequency Range: 2404 – 2476MHz

FCC Classification: Digital Transmission System (DTS)

FCC Rule Part(s): Part 15 Subpart C (15.247)

ISED Specification: RSS-247 Issue 3

Test Procedure(s): ANSI C63.10-2020, KDB 558074 D01 v05r02

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 and KDB 558074 D01 v05r02. Test results reported herein relate only to the item(s) tested.

This revised Test Report (S/N: 1C2504170043-03-R1.BCG) supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose accordingly.

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



ACCREDITED

CERT #2041.02

FCC ID: BCG-A3063		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-03-R1.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 1 of 66

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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 designated 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, IC: 579C-A3063**. The data found in this test report was taken with the EUT operating in Bluetooth HDR mode. While in HDR mode, the Bluetooth transmitter hops pseudo-randomly between 73 channels.

Test Device Serial No.: H5RHH2000PM0000UHY, H5RHH2000UB0000UHY, H5RHH2000XX0000UHY, GJPHGR001VH0000UGF, GJPHGR001X00000UGF

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)

Ch.	Frequency (MHz)
01	2404
:	:
38	2441
:	:
73	2476

Table 2-1. Bluetooth HDR Frequency / Channel Operations

Note: This device is capable of operating in hopping and non-hopping mode. The EUT can hop between 73 different channels in the 2400 – 2483.5MHz band.

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 6.0 b) of KDB 558074 D01 v05r02 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		
HDR Mode	Duty Cycles [%]	DCCF [dB]
HDR4	77.75	1.11
HDR8	78.00	1.08
HDRp4	86.70	0.62
HDRp8	87.50	0.58

Table 2-2. Measured Duty Cycles

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2.3 Antenna Description

The following antenna gain provided by manufacturer was used for testing.

Frequency [GHz]	Antenna Gain (dBi)
2.4	-2.02

Table 2-3. Highest 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:	A3122	S/N:	YH39L0M4GV
	Apple Airpod (Left)	Model:	A3064	S/N:	H5RHH4000J10000UHZ
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

2.5 Test Configuration

The EUT was tested per the guidance of ANSI C63.10-2020 and KDB 558074 D01 v05r02. 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, 7.5, and 7.6 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 configuration were investigated and the worst case was reported.

- 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

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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 558074 D01 v05r02 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 65-5. 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 an 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 groundplane. Power cables for support equipment were routed down to the second LISN while ensuring that the 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 rotated about its vertical axis 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 antenna(s) 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
Anritsu	ML2496A	Power Meter	2/10/2025	Annual	2/10/2026	1306009
Anritsu	MA2411B	Pulse Power Sensor	2/10/2025	Annual	2/10/2026	1315051
Anritsu	MA2411B	Pulse Power Sensor	2/10/2025	Annual	2/10/2026	1339027
ATM	180-442-KF	20dB Nominal Gain Horn Antenna	3/24/2025	Annual	3/24/2026	T058601-02
ETS-Lindgren	3117	Double Ridged Guide Antenna (1-18 GHz)	9/25/2024	Annual	9/25/2025	00240109
Fairview Microwave/MCL	FMCA1975-36/BW-K10-2W44+	30MHz-40GHz RF Cable/Attenuator *	6/10/2025	Annual	6/10/2026	-
Keysight Technology	N9040B	UXA Signal Analyzer	9/5/2024	Annual	9/5/2025	MY61320121
Keysight Technology	N9030A	PXA Signal Analyzer	10/16/2024	Annual	10/16/2025	MY49430494
Rohde & Schwarz	TS-PR18	Pre-Amplifier (1GHz - 18GHz)	8/14/2024	Annual	8/14/2025	101648
Rohde & Schwarz	FSW43	Spectrum Analyzer 2Hz to 43GHz	11/21/2024	Annual	11/21/2025	104093
Rohde & Schwarz	ESW44	EMI Test Receiver	10/17/2024	Annual	10/17/2025	101668
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz - 8GHz)	9/20/2024	Annual	9/20/2025	102327
Rohde & Schwarz	TS-PR1840	Pre-Amplifier (18GHz - 40GHz)	6/3/2025	Annual	6/3/2026	100052
Rohde & Schwarz	HFH2-Z2	Loop Antenna	5/12/2025	Annual	5/12/2026	100546
Rohde & Schwarz	ENV216	Two-Line V-Network	4/24/2025	Annual	4/24/2026	101364
Schwarzbeck	VULB 9162	Bilog Antenna (30MHz - 6GHz)	9/18/2024	Annual	9/18/2025	00358

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 have 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: Digital Transmission System (DTS)
 Number of Channels: 73

FCC Part Section(s)	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.247(a)(2)	RSS-247 [5.2]	6dB Bandwidth	> 500kHz	CONDUCTED	PASS	Section 7.2
2.1049	RSS-Gen [6.7]	Occupied Bandwidth	N/A		N/A	Section 7.2
15.247(b)(3)	RSS-247 [5.4(d)]	Transmitter Output Power	< 1 Watt		PASS	Sections 7.3
15.247(e)	RSS-247 [5.2]	Transmitter Power Spectral Density	< 8dBm / 3kHz Band		PASS	Section 7.4
15.247(d)	RSS-247 [5.5]	Band Edge / Out-of-Band Emissions	≥ 20dBc		PASS	Sections 7.5, 7.6
15.205 15.209	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])	RADIATED	PASS	Sections 7.7, 7.8
15.207	RSS-Gen [8.8]	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.207 limits (RSS-Gen [8.8])	AC LINE CONDUCTED	PASS	Section 7.9

Table 7-1. Summary of Test Results

Notes:

1. All modes of operation 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," 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.

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7.2 Bandwidth Measurement

§2.1049; §15.247(a)(2); RSS-247 [5.2]; RSS-Gen [6.7]

Test Overview and Limit

The bandwidth at 6dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the transmitter antenna terminal of the EUT while the EUT is operating at maximum power and at the appropriate frequencies. All modes of operation were investigated and the worst case configuration results are reported in this section.

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. All modes of operation were investigated and the worst case configuration results are reported in this section.

The minimum permissible 6dB bandwidth is 500 kHz.

Test Procedure Used

ANSI C63.10-2020 – Subclause 11.8.2 Option 2

KDB 558074 D01 v05r02 – Section 8.2

RSS-Gen [6.7]

Test Settings

1. The signal analyzers' automatic bandwidth measurement capability of the spectrum analyzer was used to perform the 99% occupied bandwidth and the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to X = 6. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 100kHz
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7

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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

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Frequency [MHz]	Mode	Channel	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass/Fail
2404	HDR4	1	2.306	0.512	0.500	Pass
2441	HDR4	38	2.304	0.509	0.500	Pass
2476	HDR4	73	2.299	0.504	0.500	Pass
2404	HDR8	1	4.549	0.516	0.500	Pass
2441	HDR8	38	4.561	0.522	0.500	Pass
2476	HDR8	74	4.550	0.515	0.500	Pass
2404	HDRp4	1	2.418	2.133	0.500	Pass
2441	HDRp4	37	2.421	2.135	0.500	Pass
2476	HDRp4	73	2.419	2.129	0.500	Pass
2404	HDRp8	1	4.840	4.127	0.500	Pass
2441	HDRp8	37	4.838	4.129	0.500	Pass
2476	HDRp8	73	4.844	4.125	0.500	Pass

Table 7-2. 6dB BW & 99% OBW Measurements

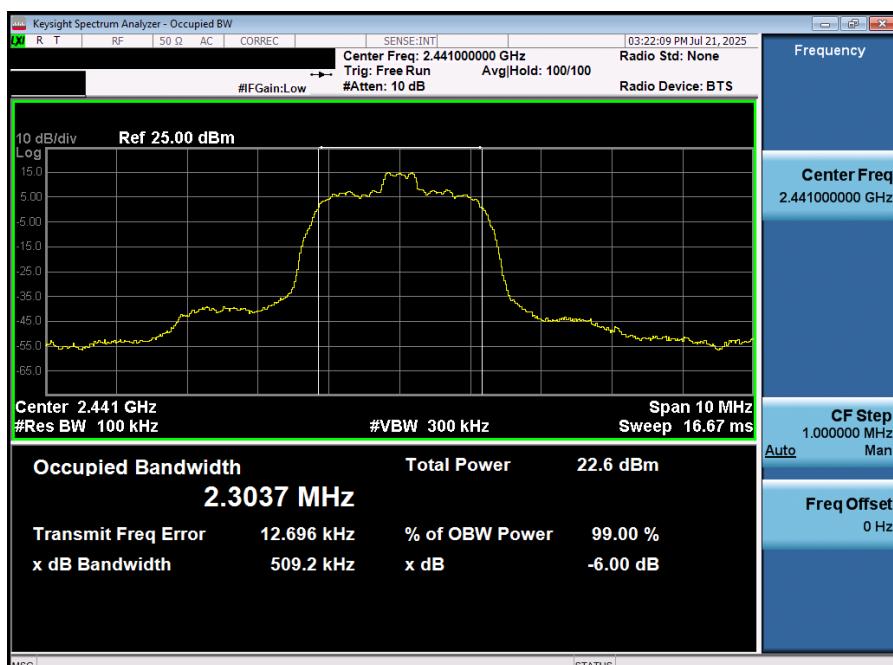
FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-03-R1.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 15 of 66



element

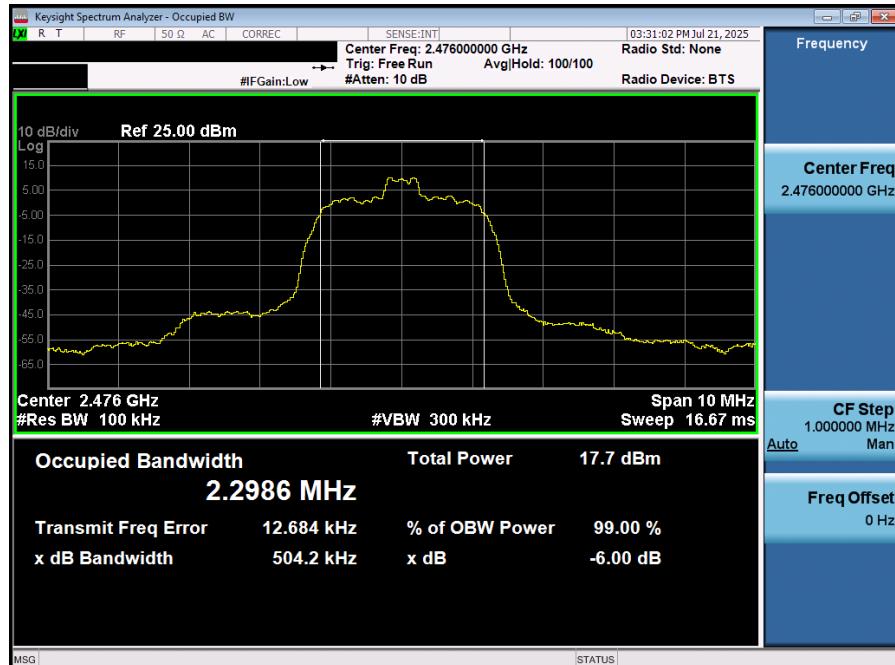


Plot 7-1. 6dB BW & 99% OBW Plot (Bluetooth (HDR4), 4Mbps – Ch. 1)



Plot 7-2. 6dB BW & 99% OBW Plot (Bluetooth (HDR4), 4Mbps – Ch. 38)

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-03-R1.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 16 of 66

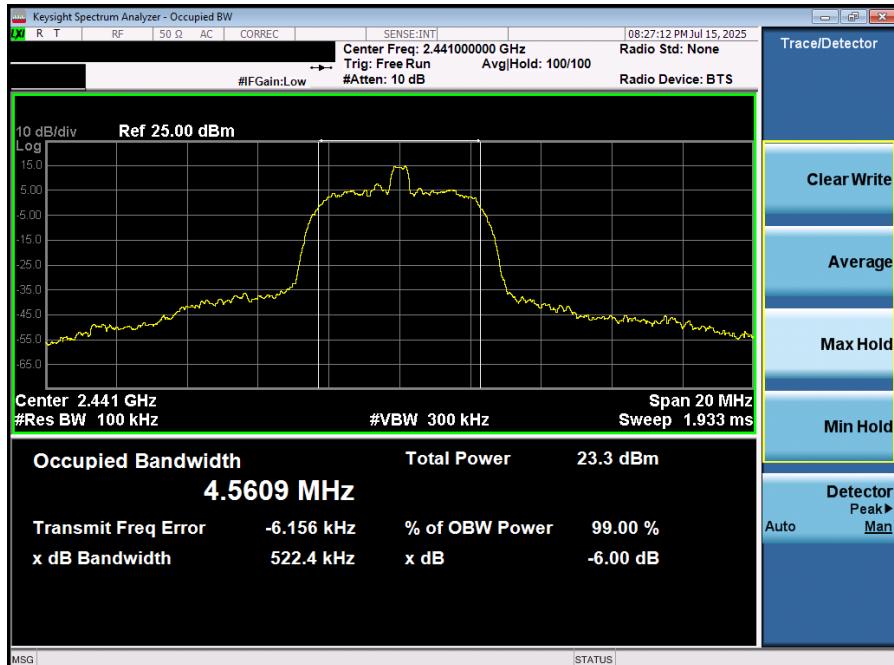


Plot 7-3. 6dB BW & 99% OBW Plot (Bluetooth (HDR4), 4Mbps – Ch. 73)

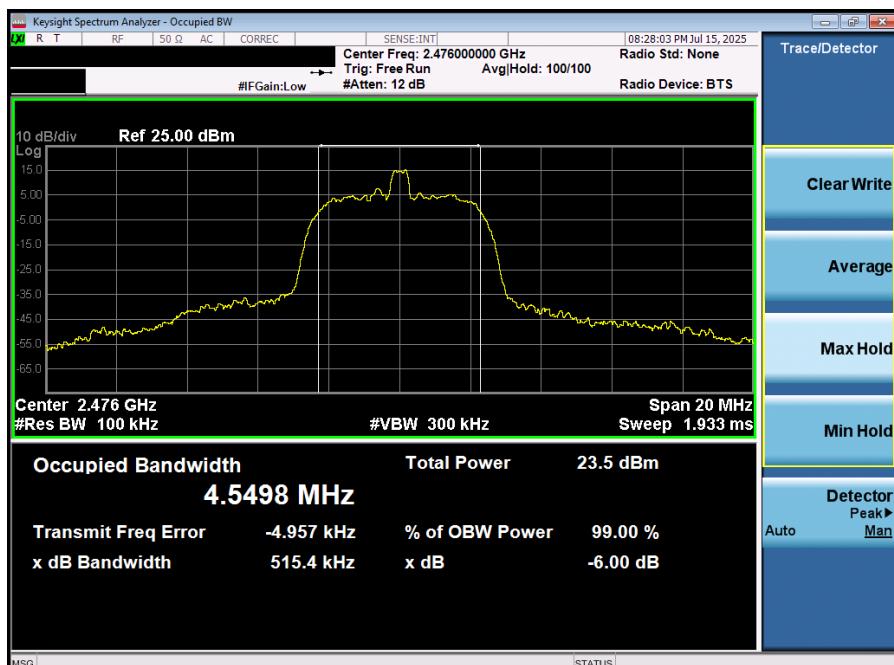


Plot 7-4. 6dB BW & 99% OBW Plot (Bluetooth (HDR8), 8Mbps – Ch. 1)

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-03-R1.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 17 of 66

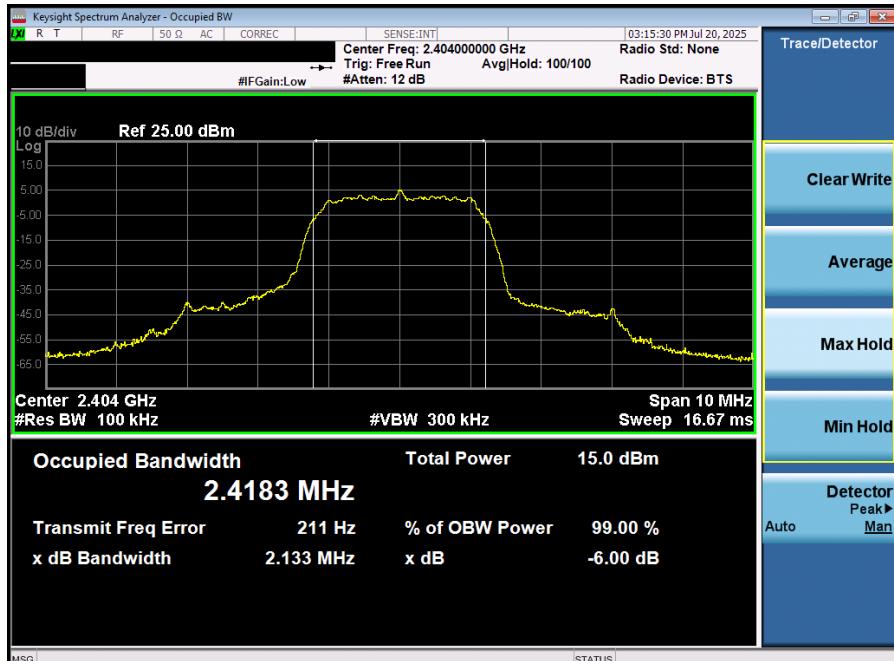


Plot 7-5. 6dB BW & 99% OBW Plot (Bluetooth (HDR8), 8Mbps – Ch. 38)

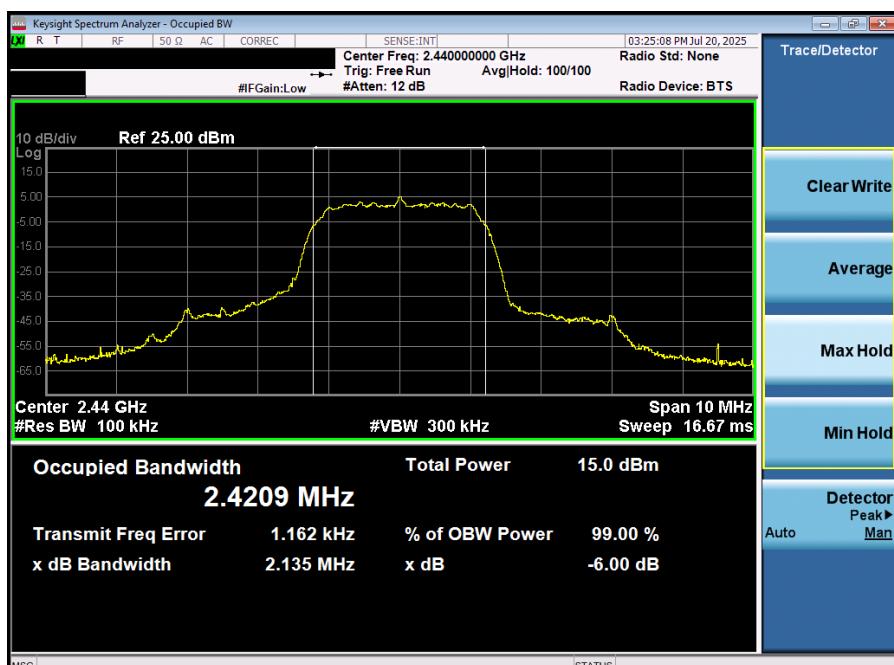


Plot 7-6. 6dB BW & 99% OBW Plot (Bluetooth (HDR8), 8Mbps – Ch. 73)

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-03-R1.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 18 of 66

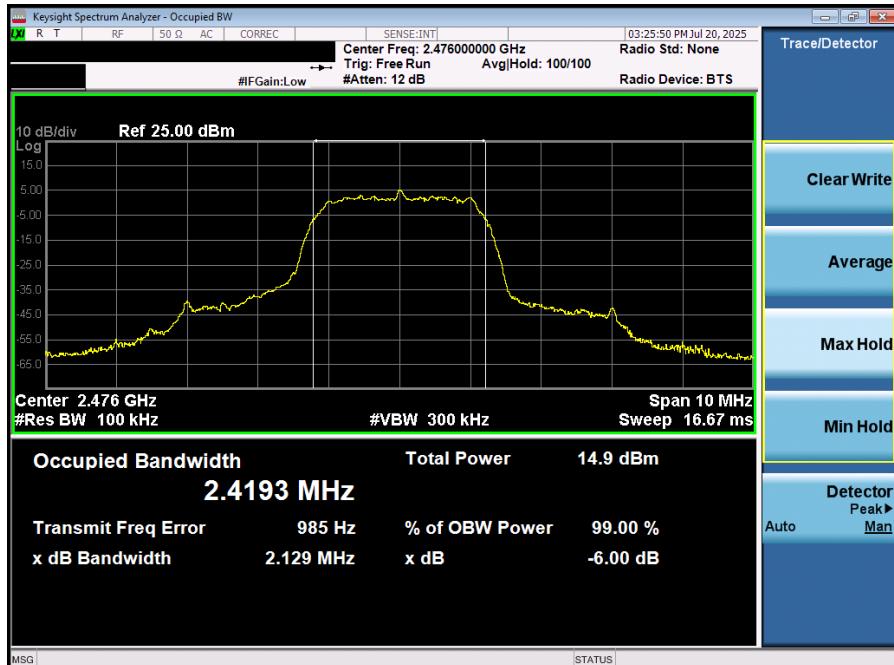


Plot 7-7. 6dB BW & 99% OBW Plot (Bluetooth (HDP4), 4Mbps – Ch. 1)

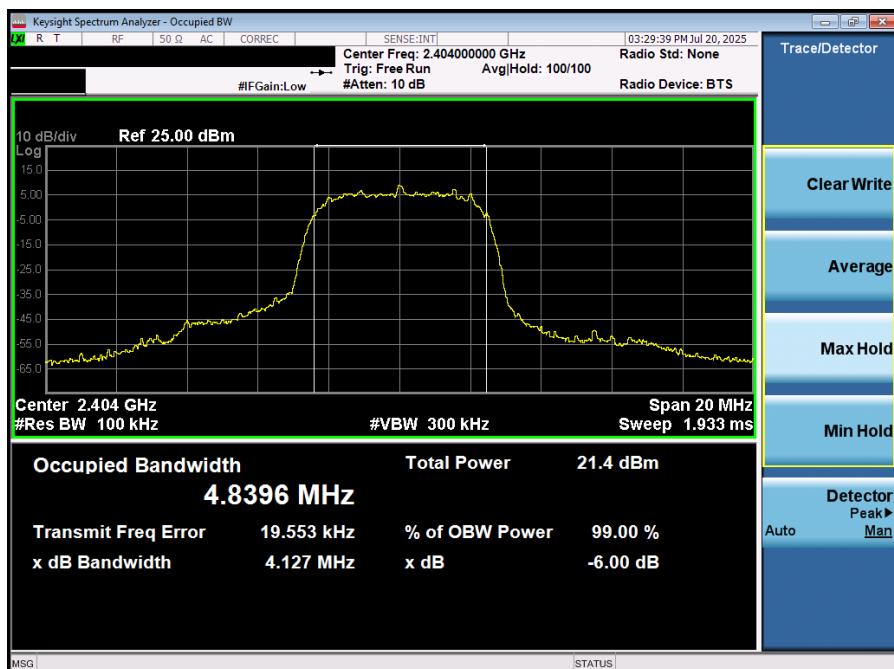


Plot 7-8. 6dB BW & 99% OBW Plot (Bluetooth (HDP4), 4Mbps – Ch. 37)

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-03-R1.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 19 of 66

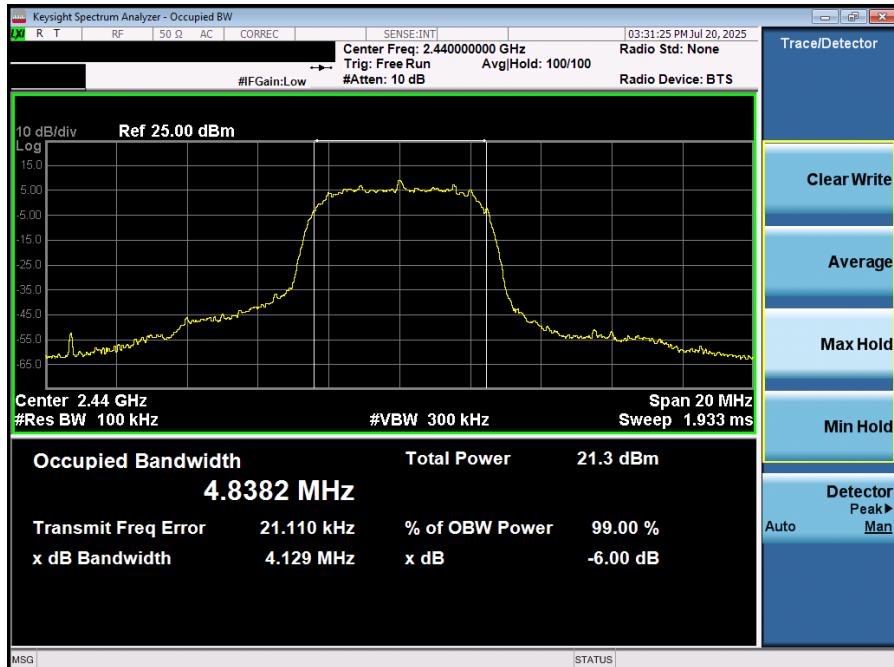


Plot 7-9. 6dB BW & 99% OBW Plot (Bluetooth (HDRp4), 4Mbps – Ch. 73)

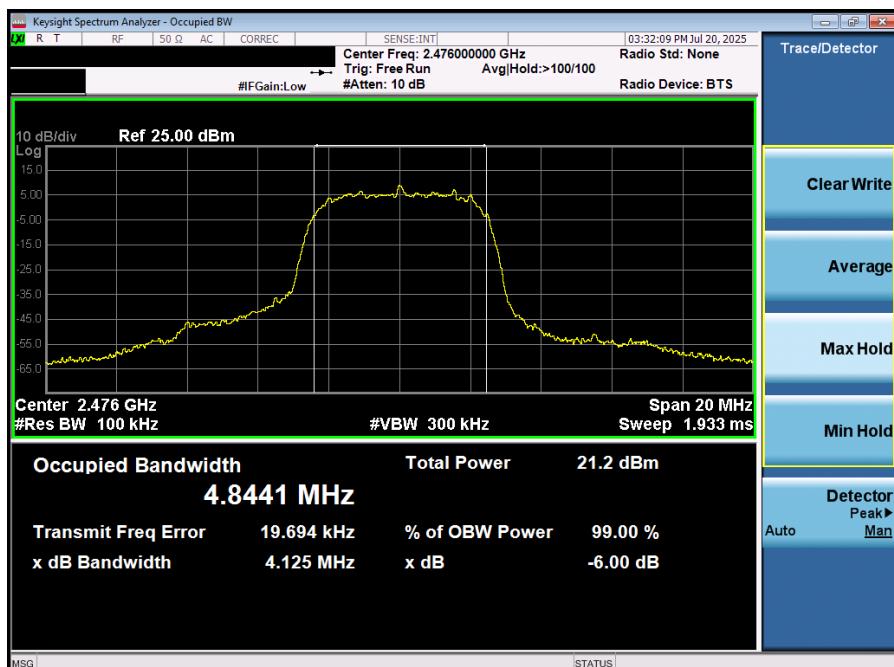


Plot 7-10. 6dB BW & 99% OBW Plot (Bluetooth (HDRp8), 8Mbps – Ch. 1)

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-03-R1.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 20 of 66



Plot 7-11. 6dB BW & 99% OBW Plot (Bluetooth (HDRp8), 8Mbps – Ch. 37)



Plot 7-12. 6dB BW & 99% OBW Plot (Bluetooth (HDRp8), 8Mbps – Ch. 73)

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-03-R1.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 21 of 66

7.3 Output Power Measurement

§15.247(b)(3); RSS-247 [5.4(d)]

Test Overview and Limits

The transmitter antenna terminal of the EUT is connected to the input of a spectrum analyzer. Measurements are made while the EUT is operating at maximum power and at the appropriate frequencies.

The maximum peak conducted output power of digital modulation systems operating in the 2400-2483.5 MHz band is 1 Watt.

For DTSs employing digital modulation techniques operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1 W. The e.i.r.p. shall not exceed 4 W.

Test Procedure Used

ANSI C63.10-2020 – Subclause 11.9.1.2 PKPM1 Peak Power Method

KDB 558074 D01 v05r02 – Section 8.3.1.3 PKPM1 Peak-reading Power Meter Method

ANSI C63.10-2020 – Subclause 11.9.2.3.2 Method AVGPM-G

KDB 558074 D01 v05r02 – Section 8.3.2.3 Measurement using a Power Meter (PM)

Test Settings

Method PKPM1 (Peak Power Measurement)

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

Method AVGPM-G (Average Power Measurement)

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 for Peak and Average Power Measurement

Test Notes

None

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-03-R1.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 22 of 66

7.3.1 Peak Output Power Measurement – Bluetooth (HDR)

Frequency [MHz]	Mode	Channel No.	Peak Conducted Power		Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	EIRP Margin [dB]
			[dBm]	[mW]						
2404	HDR4	1	15.15	32.734	30.00	-14.85	-2.02	13.13	36.02	-22.89
2441	HDR4	38	15.08	32.211	30.00	-14.92	-2.02	13.06	36.02	-22.96
2476	HDR4	73	14.90	30.903	30.00	-15.10	-2.02	12.88	36.02	-23.14
2404	HDRp4	1	15.76	37.670	30.00	-14.24	-2.02	13.74	36.02	-22.28
2441	HDRp4	38	14.91	30.974	30.00	-15.09	-2.02	12.89	36.02	-23.13
2476	HDRp4	73	15.68	36.983	30.00	-14.32	-2.02	13.66	36.02	-22.36
2404	HDR8	1	15.16	32.810	30.00	-14.84	-2.02	13.14	36.02	-22.88
2441	HDR8	38	15.08	32.211	30.00	-14.92	-2.02	13.06	36.02	-22.96
2476	HDR8	73	15.80	38.019	30.00	-14.20	-2.02	13.78	36.02	-22.24
2404	HDRp8	1	15.81	38.107	30.00	-14.19	-2.02	13.79	36.02	-22.23
2441	HDRp8	38	15.58	36.141	30.00	-14.42	-2.02	13.56	36.02	-22.46
2476	HDRp8	73	15.66	36.813	30.00	-14.34	-2.02	13.64	36.02	-22.38

Table 7-3. Peak Conducted Output Power Measurements (Bluetooth HDR)

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-03-R1.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 23 of 66

7.3.2 Average Output Power Measurement – Bluetooth (HDR)

Frequency [MHz]	Mode	Channel No.	Average Conducted Power		Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	EIRP Margin [dB]
			[dBm]	[mW]						
2404	HDR4	1	12.52	17.873	30.00	-17.48	-2.02	10.50	36.02	-25.52
2441	HDR4	38	12.30	16.998	30.00	-17.70	-2.02	10.28	36.02	-25.74
2476	HDR4	73	12.10	16.218	30.00	-17.90	-2.02	10.08	36.02	-25.94
2404	HDRp4	1	12.83	19.187	30.00	-17.17	-2.02	10.81	36.02	-25.21
2441	HDRp4	38	12.28	16.916	30.00	-17.72	-2.02	10.26	36.02	-25.76
2476	HDRp4	73	12.68	18.535	30.00	-17.32	-2.02	10.66	36.02	-25.36
2404	HDR8	1	12.55	17.989	30.00	-17.45	-2.02	10.53	36.02	-25.49
2441	HDR8	38	12.40	17.358	30.00	-17.61	-2.02	10.38	36.02	-25.65
2476	HDR8	73	12.99	19.907	30.00	-17.01	-2.02	10.97	36.02	-25.05
2404	HDRp8	1	12.82	19.143	30.00	-17.18	-2.02	10.80	36.02	-25.22
2441	HDRp8	38	12.37	17.254	30.00	-17.63	-2.02	10.35	36.02	-25.67
2476	HDRp8	73	12.67	18.493	30.00	-17.33	-2.02	10.65	36.02	-25.37

Table 7-4. Average Conducted Output Power Measurements (Bluetooth HDR)

Sample e.i.r.p. Calculation:

At 2404MHz, the average conducted output power was calculated to be 12.52 dBm with antenna gain of -2.02 dBi.

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

$$12.52 \text{ dBm} + -2.02 \text{ dBi} = 10.50 \text{ dBm}$$

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-03-R1.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 24 of 66

7.4 Power Spectral Density

§15.247(e); RSS-247 [5.2]

Test Overview and Limit

The peak power density is measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power and at the appropriate frequencies.

The maximum permissible power spectral density is 8 dBm in any 3 kHz band.

Test Procedure Used

ANSI C63.10-2020 – Subclause 11.10.2 Method PKPSD

KDB 558074 D01 v05r02 – Section 8.4 DTS Maximum Power Spectral Density level in the fundamental emission

Test Settings

1. Analyzer was set to the center frequency of the DTS channel under investigation
2. Span = 1.5 times the DTS channel bandwidth
3. RBW = 3kHz
4. VBW $\geq 3 \times$ RBW
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Trace was allowed to stabilize

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

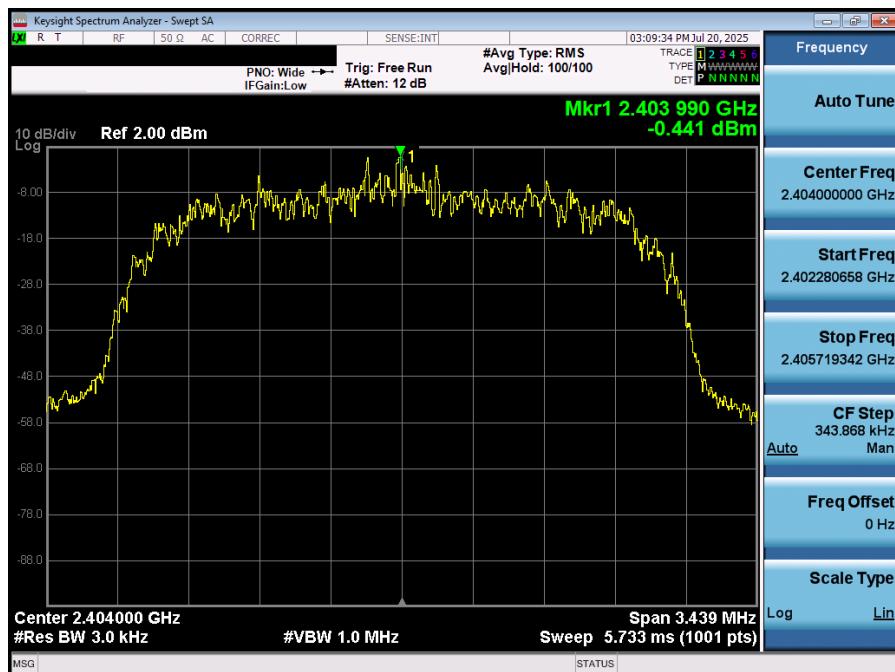
None

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-03-R1.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 25 of 66

Frequency [MHz]	Mode	Channel No.	Measured Power Density [dBm/3kHz]	Max Power Density [dBm/3kHz]	Margin [dB]
2404	HDR4	1	-0.44	8.0	-8.44
2441	HDR4	38	-0.54	8.0	-8.54
2476	HDR4	74	-0.59	8.0	-8.59
2404	HDR8	1	0.56	8.0	-7.44
2441	HDR8	38	0.46	8.0	-7.54
2476	HDR8	74	0.42	8.0	-7.58
2404	HDRp4	1	-4.64	8.0	-12.64
2441	HDRp4	37	-4.81	8.0	-12.81
2476	HDRp4	74	-4.91	8.0	-12.91
2404	HDRp8	1	-8.09	8.0	-16.09
2441	HDRp8	37	-8.11	8.0	-16.11
2476	HDRp8	74	-8.14	8.0	-16.14

Table 7-5. Conducted Power Density Measurements

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-03-R1.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 26 of 66



Plot 7-13. Power Spectral Density Plot (Bluetooth (HDR4), 4Mbps – Ch. 1)

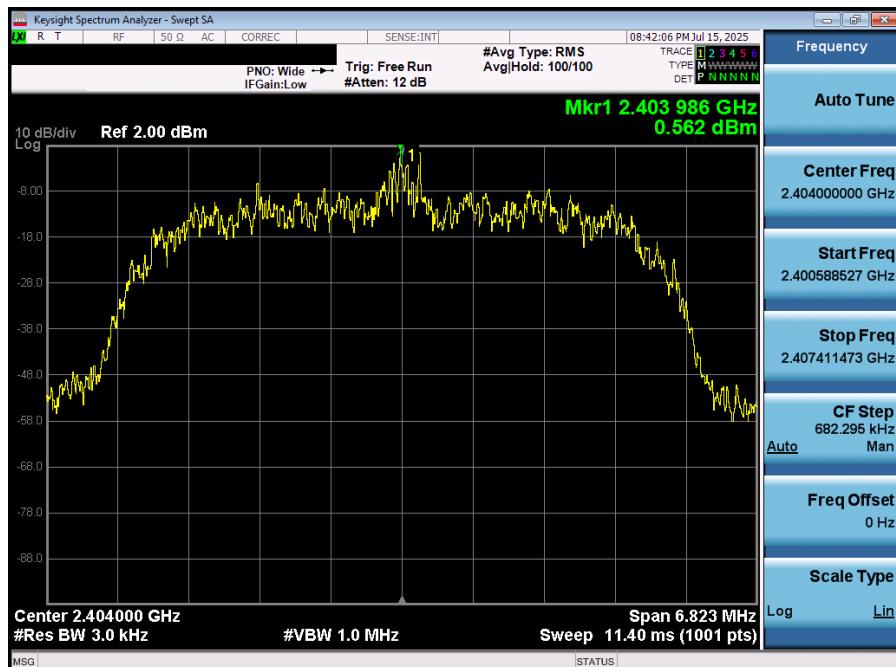


Plot 7-14. Power Spectral Density Plot (Bluetooth (HDR4), 4Mbps – Ch. 38)

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-03-R1.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 27 of 66

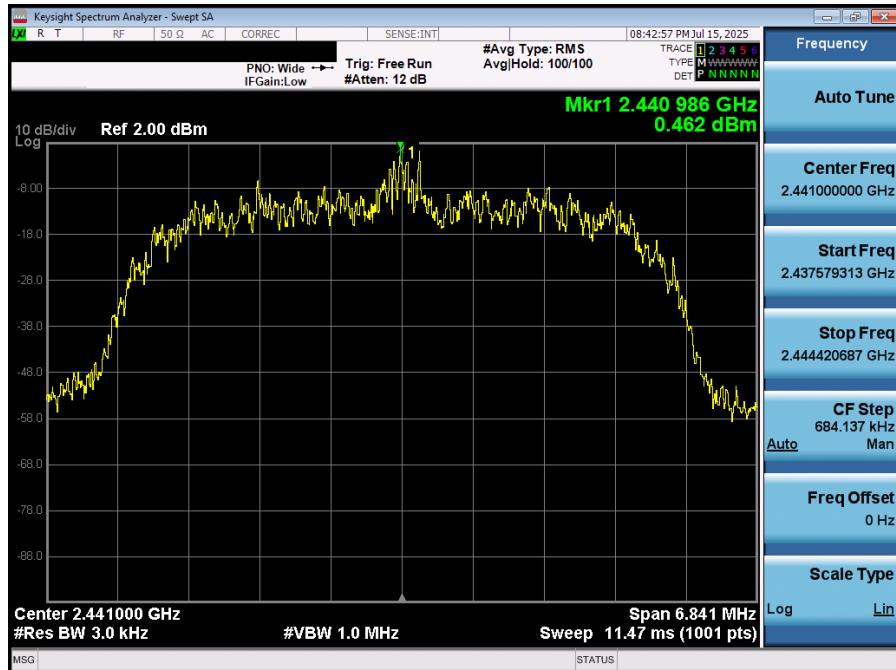


Plot 7-15. Power Spectral Density Plot (Bluetooth (HDR4), 4Mbps – Ch. 73)

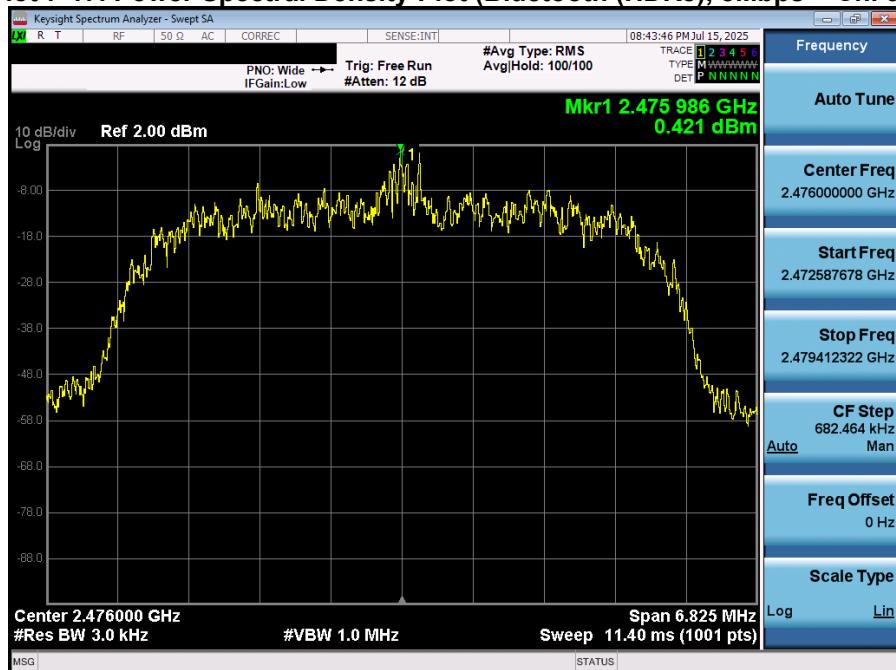


Plot 7-16. Power Spectral Density Plot (Bluetooth (HDR8), 8Mbps – Ch. 1)

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-03-R1.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 28 of 66

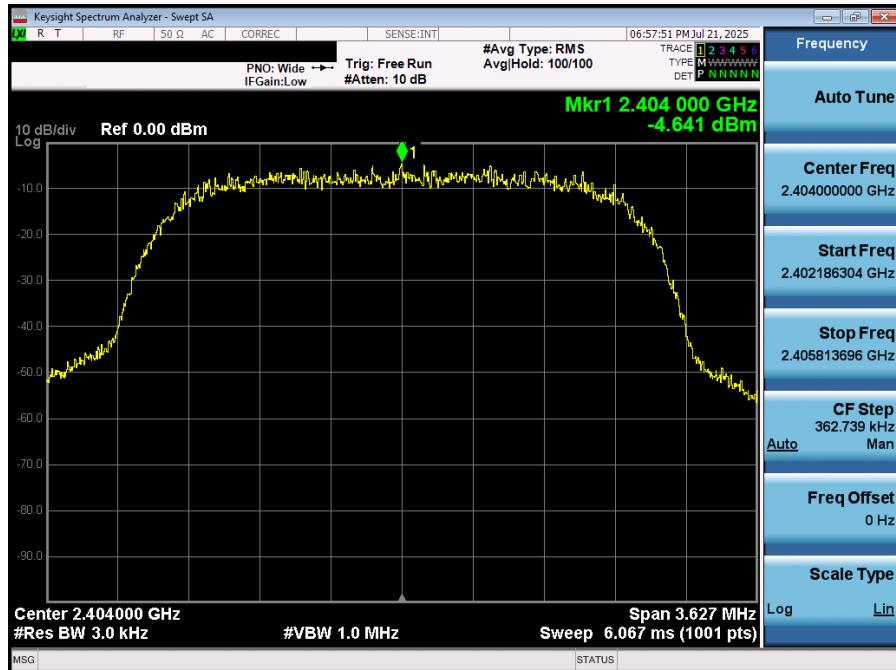


Plot 7-17. Power Spectral Density Plot (Bluetooth (HDR8), 8Mbps – Ch. 38)

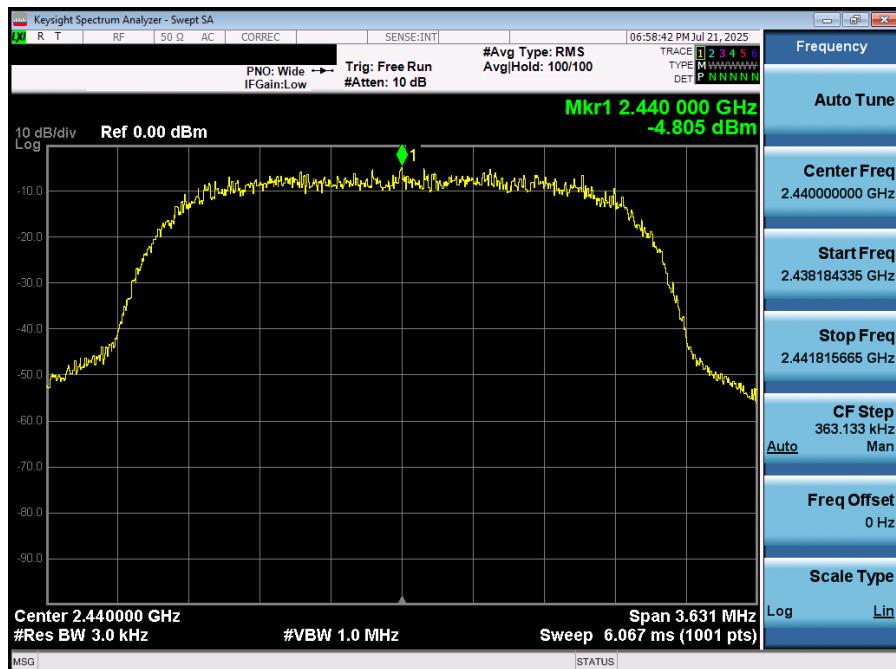


Plot 7-18. Power Spectral Density Plot (Bluetooth (HDR8), 8Mbps – Ch. 73)

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-03-R1.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 29 of 66

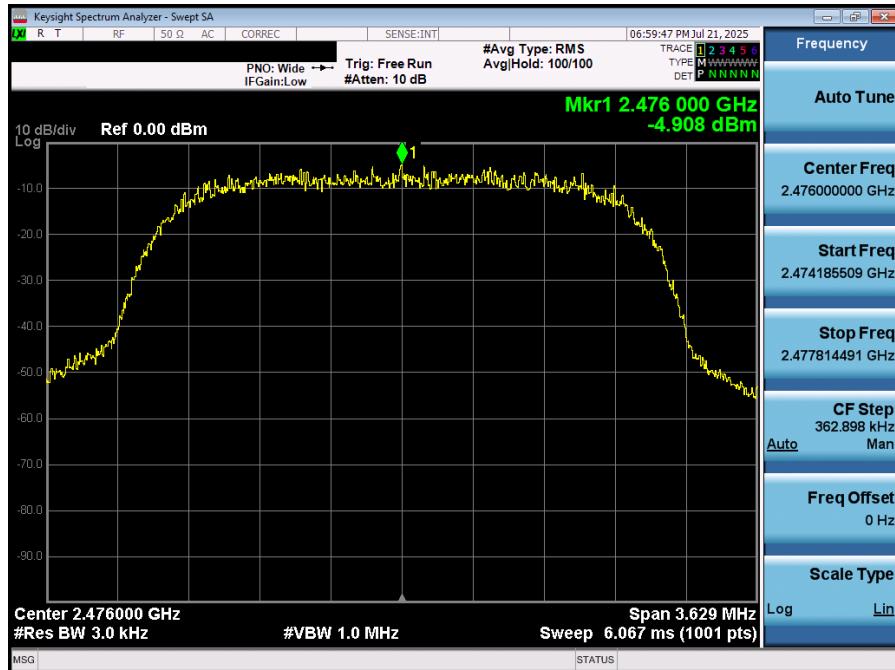


Plot 7-19. Power Spectral Density Plot (Bluetooth (HDRp4), 4Mbps – Ch. 1)

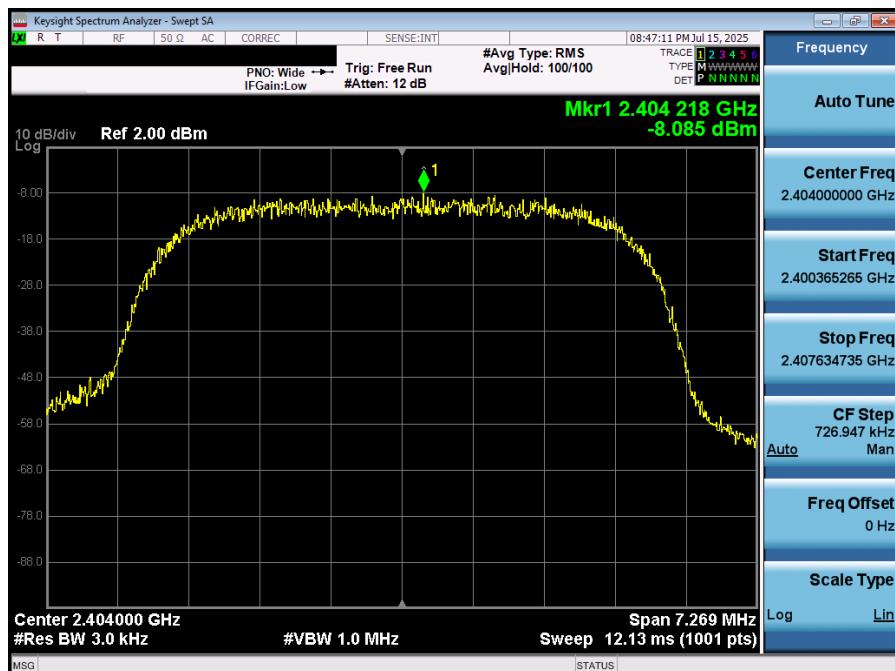


Plot 7-20. Power Spectral Density Plot (Bluetooth (HDRp4), 4Mbps – Ch. 38)

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-03-R1.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 30 of 66

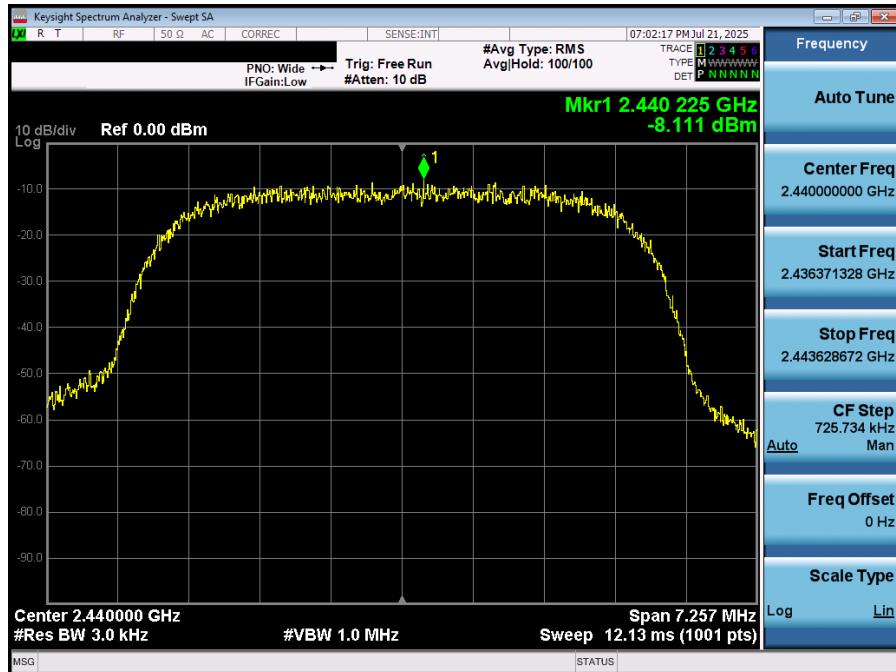


Plot 7-21. Power Spectral Density Plot (Bluetooth (HDRp4), 4Mbps – Ch. 73)

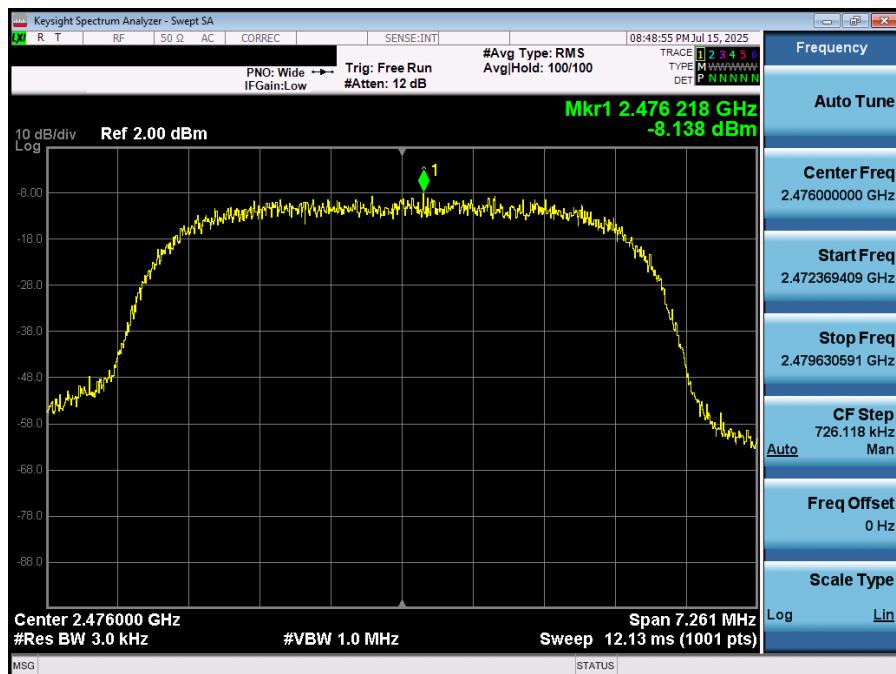


Plot 7-22. Power Spectral Density Plot (Bluetooth (HDRp8), 8Mbps – Ch. 1)

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-23. Power Spectral Density Plot (Bluetooth (HDRp8), 8Mbps – Ch. 38)



Plot 7-24. Power Spectral Density Plot (Bluetooth (HDRp8), 8Mbps – Ch. 73)

FCC ID: BCG-A3063 IC: 579C-A3063		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-03-R1.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 32 of 66

7.5 Conducted Authorized Band Edge

§15.247(d); RSS-247 [5.5]

Test Overview and Limit

For the following out of band conducted spurious emissions plots at the band edge, the EUT was set to transmit at maximum power with the largest packet size available. These settings produced the worst-case emissions.

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth.

Test Procedure Used

ANSI C63.10-2020 – Subclause 11.11.3
KDB 558074 D01 v05r02 – Section 8.7.2

Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW = 100kHz
4. VBW $\geq 3 \times$ RBW
5. Detector = Peak
6. Number of sweep points $\geq 2 \times$ Span/RBW
7. Trace mode = max hold
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Setup

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

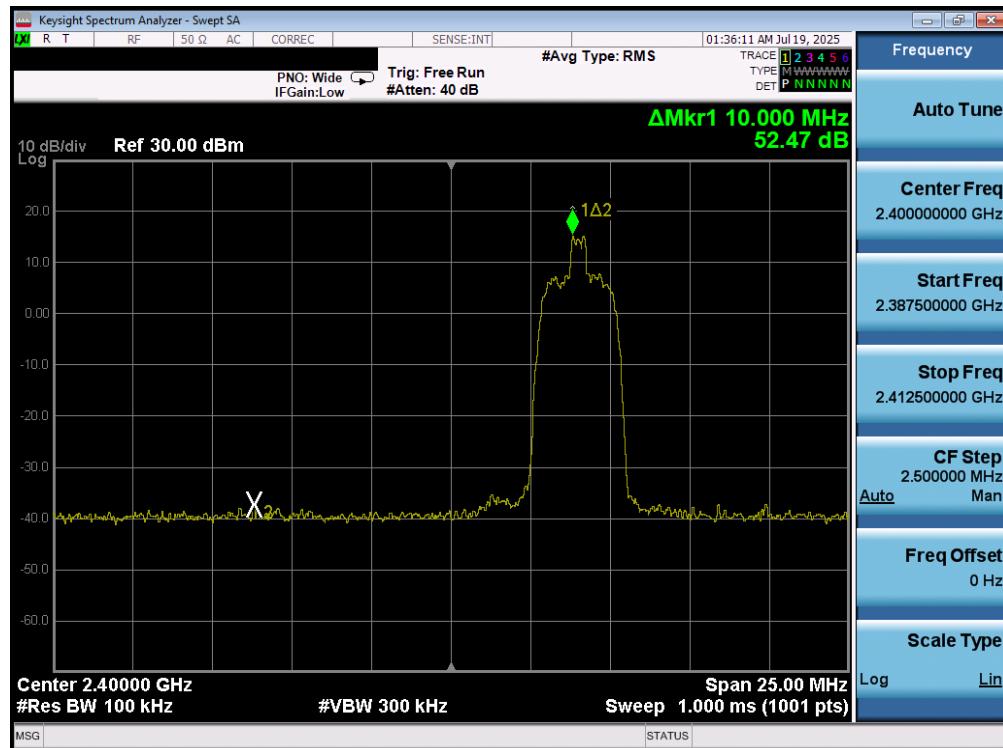


Figure 7-4. Test Instrument & Measurement Setup

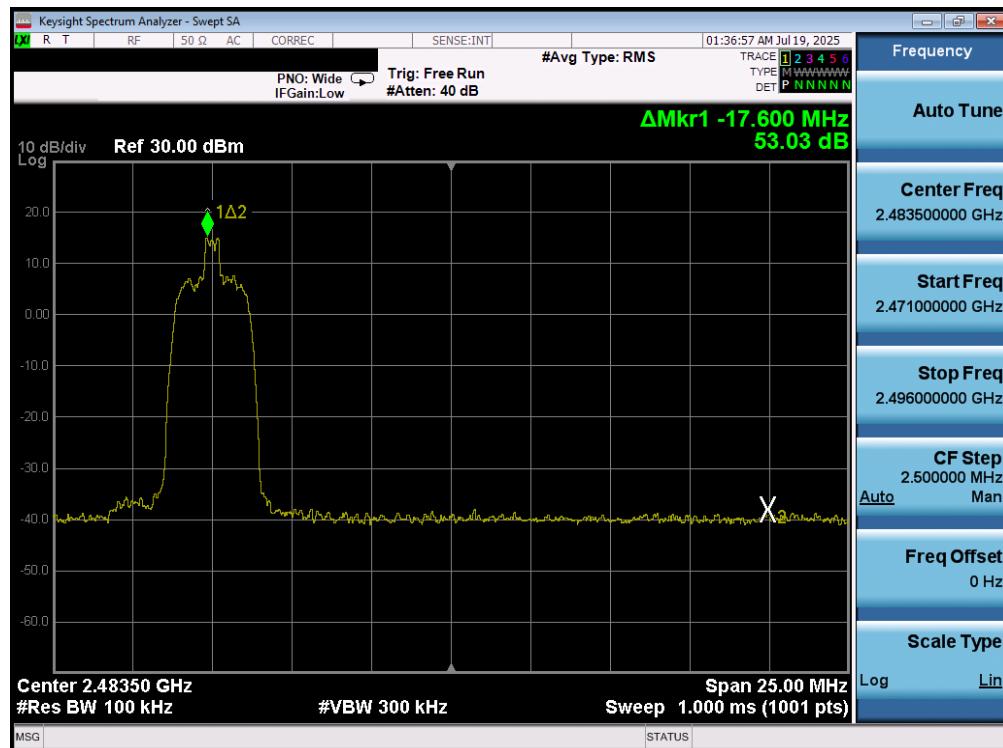
Test Notes

None

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-03-R1.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 33 of 66

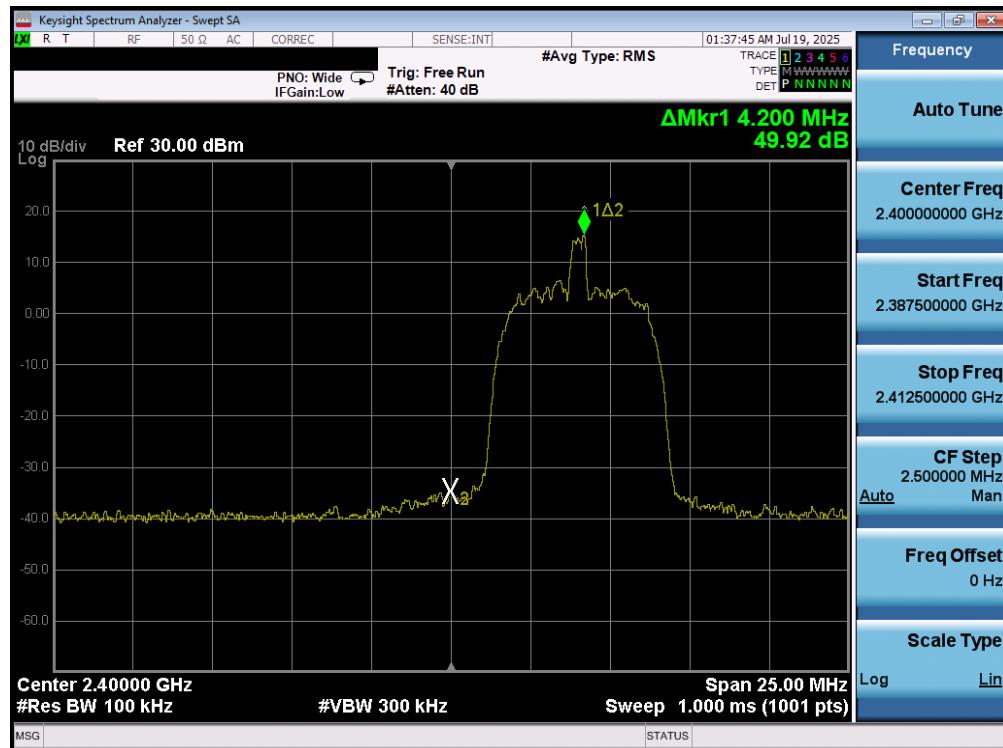


Plot 7-25. Band Edge Plot (Bluetooth (HDR4) – Ch. 1)

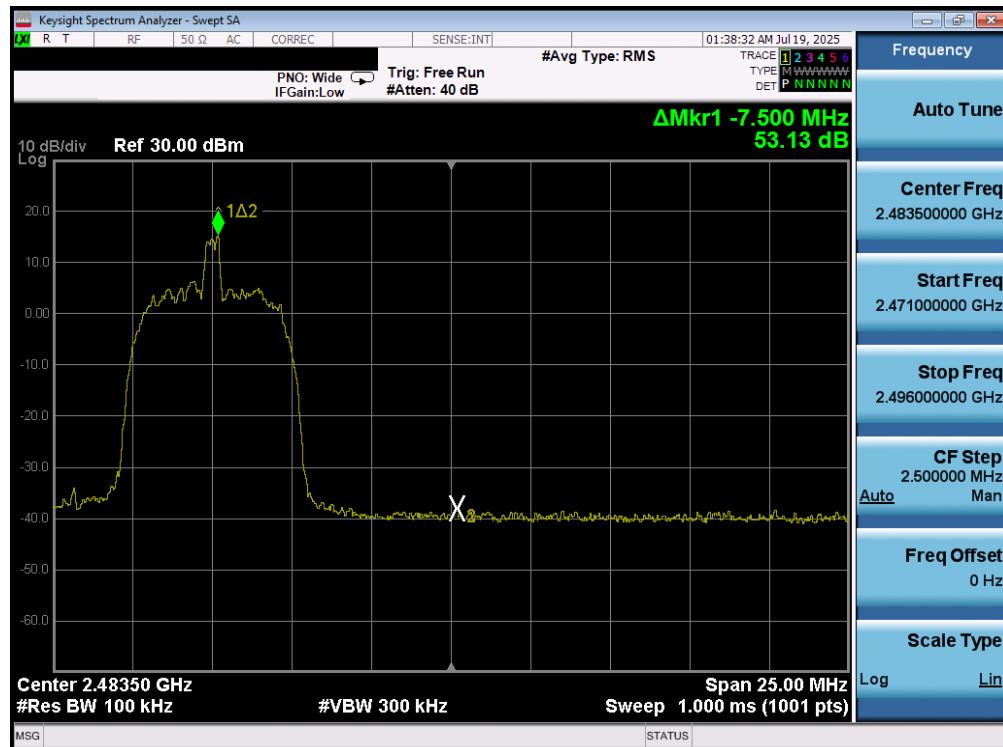


Plot 7-26. Band Edge Plot (Bluetooth (HDR4) – Ch. 73)

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-03-R1.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 34 of 66

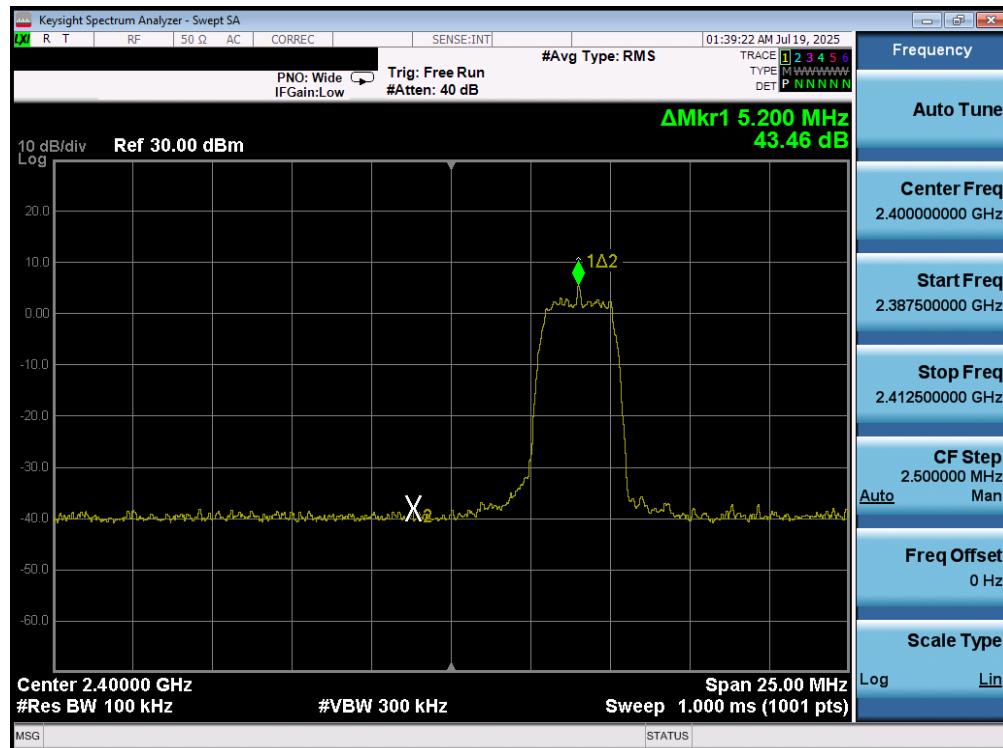


Plot 7-27. Band Edge Plot (Bluetooth (HDR8) – Ch. 1)

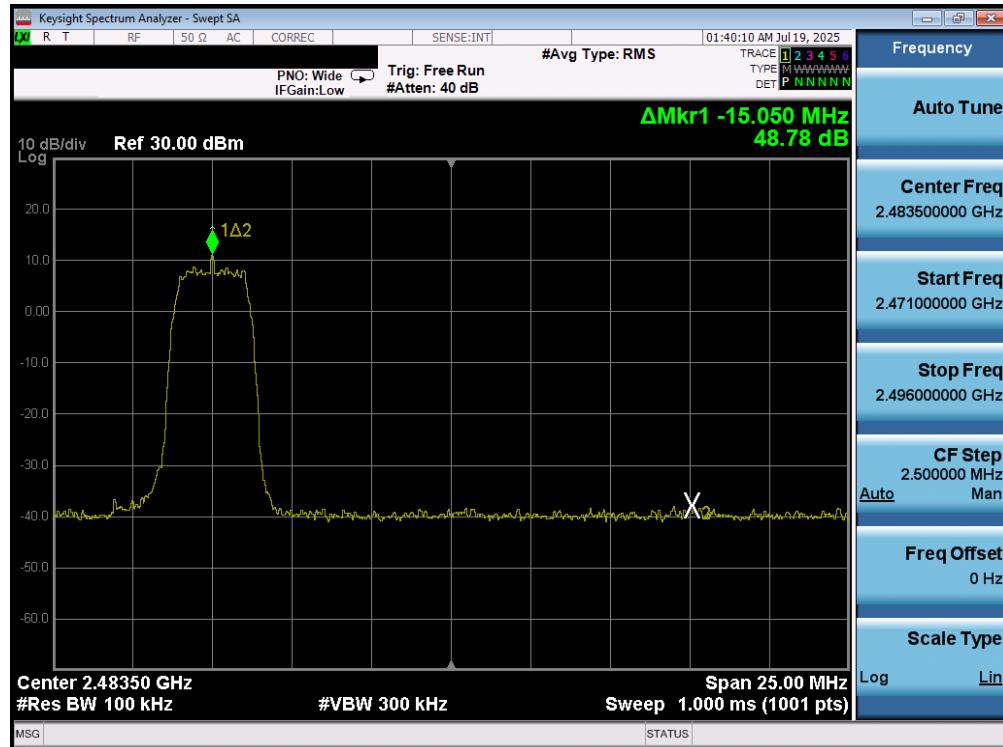


Plot 7-28. Band Edge Plot (Bluetooth (HDR8) – Ch. 73)

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-03-R1.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 35 of 66

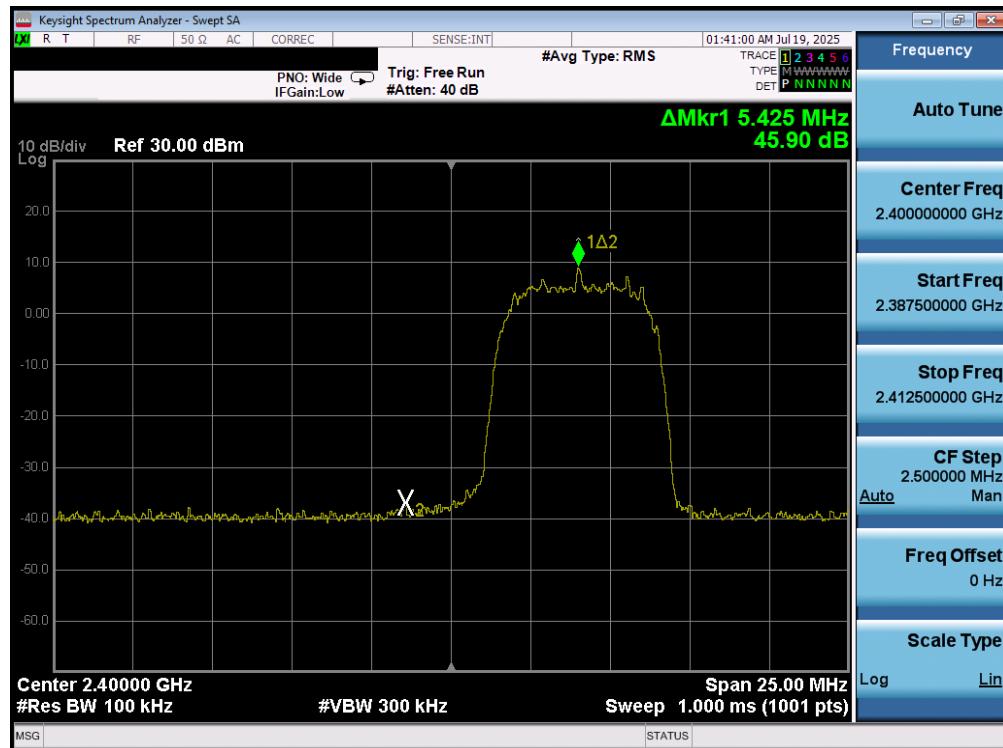


Plot 7-29. Band Edge Plot (Bluetooth (HDRp4) – Ch. 1)

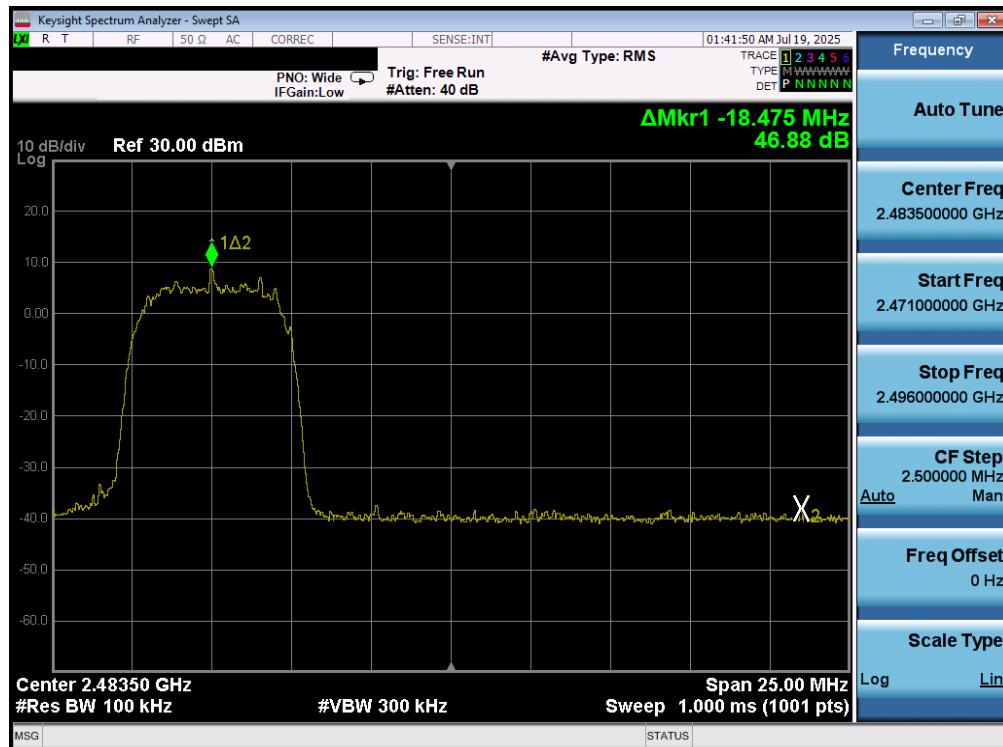


Plot 7-30. Band Edge Plot (Bluetooth (HDRp4) – Ch. 73)

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-03-R1.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 36 of 66



Plot 7-31. Band Edge Plot (Bluetooth (HDRp8) – Ch. 1)



Plot 7-32. Band Edge Plot (Bluetooth (HDRp8) – Ch. 73)

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-03-R1.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 37 of 66

7.6 Conducted Spurious Emissions

§15.247(d); RSS-247 [5.5]

Test Overview and Limit

For the following out of band conducted spurious emissions plots, the EUT was set to transmit at maximum power with the largest packet size available. The worst case spurious emissions were found in this configuration.

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the procedure in Section 8.5 of KDB 558074 D01 v05r02 and Subclause 11.11 of ANSI C63.10-2020.

Test Procedure Used

ANSI C63.10-2020 – Subclause 11.11.3

KDB 558074 D01 v05r02 – Section 8.5

ANSI C63.10-2020 – Subclause 14.5.3

KDB 662911 D01 v02r01 – Section E(3)b)

Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to 25GHz (separated into two plots per channel)
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Peak
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize

Test Setup

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



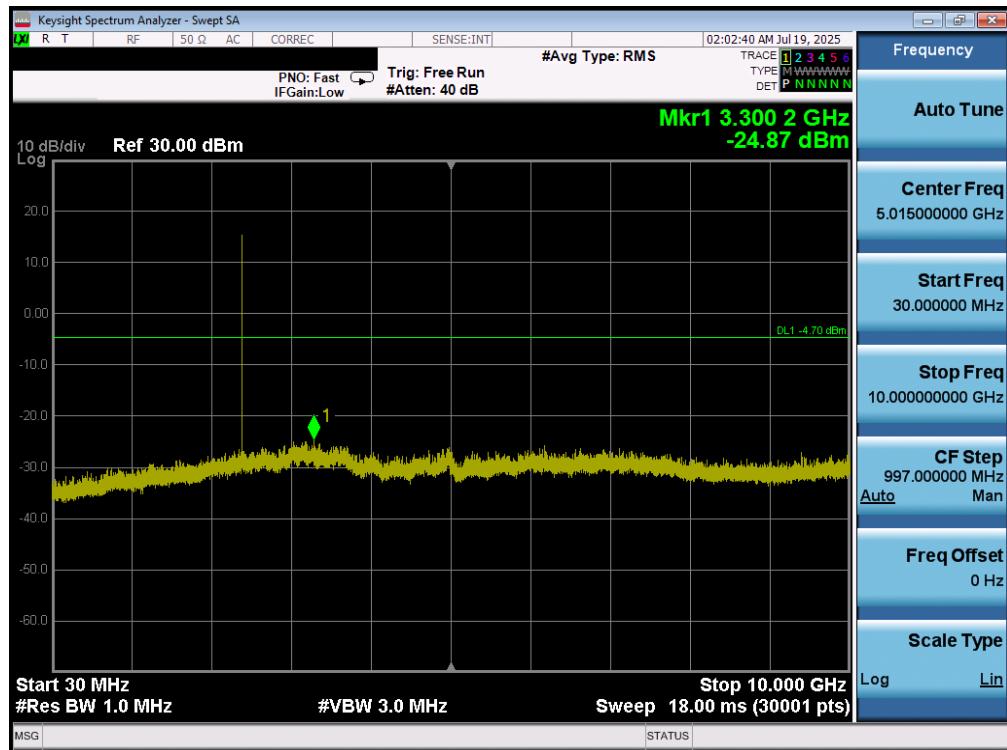
Figure 7-5. Test Instrument & Measurement Setup

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-03-R1.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 38 of 66

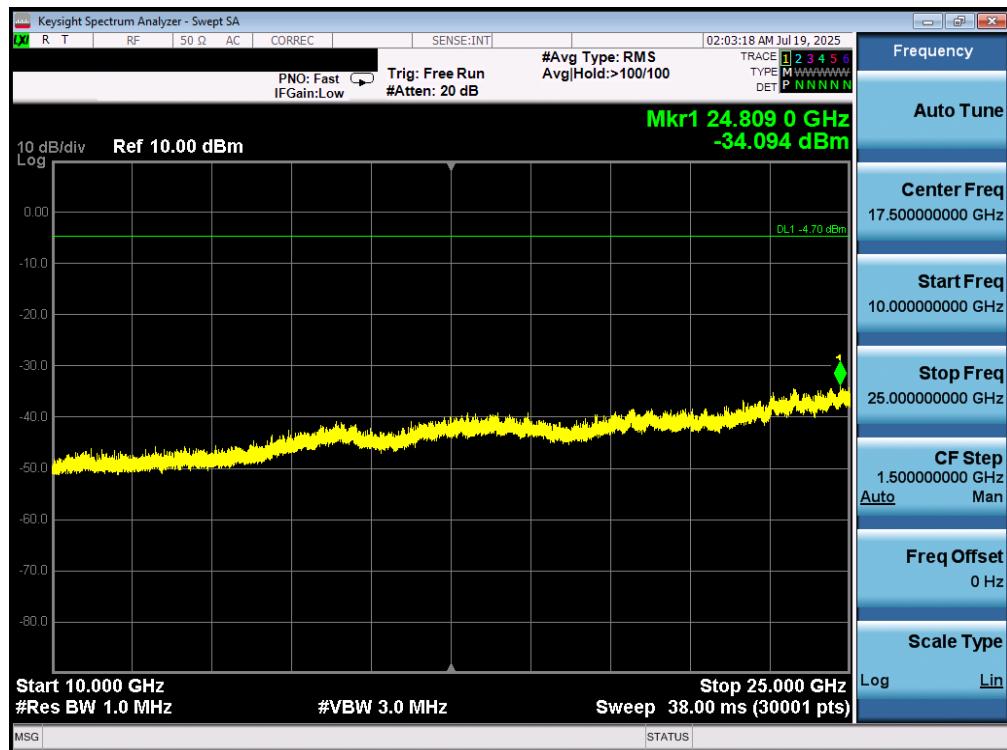
Test Notes

1. RBW was set to 1MHz rather than 100kHz in order to increase the measurement speed.
2. The display line shown in the following plots denotes the limit at 20dB below the fundamental emission level measured in a 100kHz bandwidth. However, since the traces in the following plots are measured with a 1MHz RBW, the display line may not necessarily appear to be 20dB below the level of the fundamental in a 1MHz bandwidth.
3. For plots showing conducted spurious emissions near the limit, the frequencies were investigated with a reduced RBW to ensure that no emissions were present.
4. All supported modulations have been tested on the unit and only worst case configuration is reported.

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-03-R1.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 39 of 66

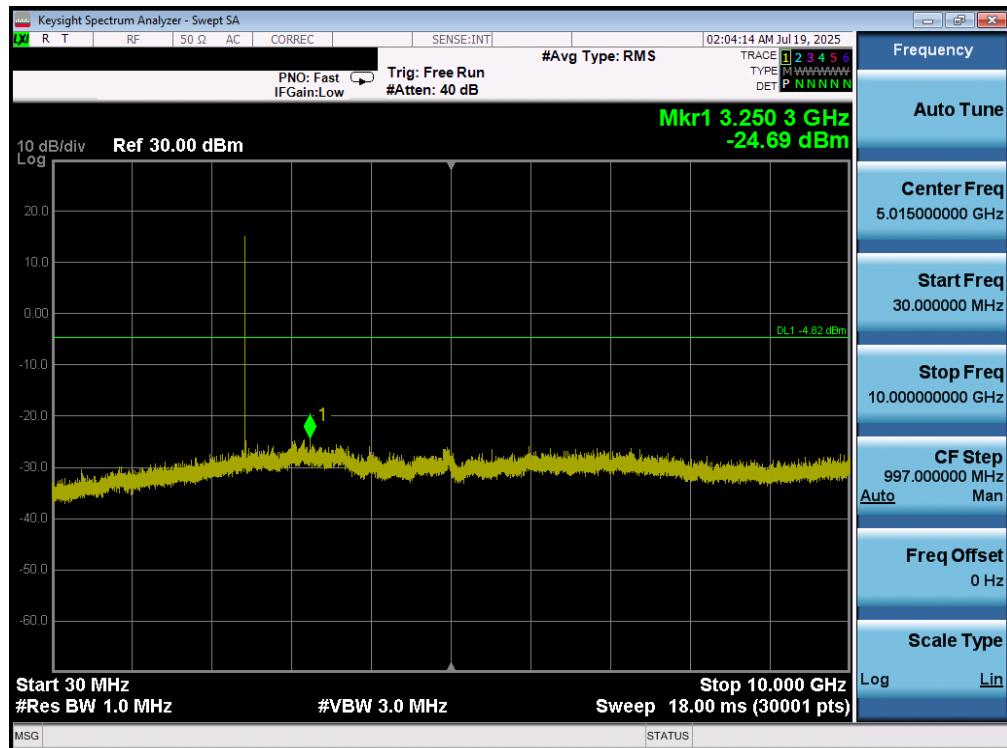


Plot 7-33. Conducted Spurious Plot (Bluetooth (HDR4), 4 Mbps – Ch. 1)

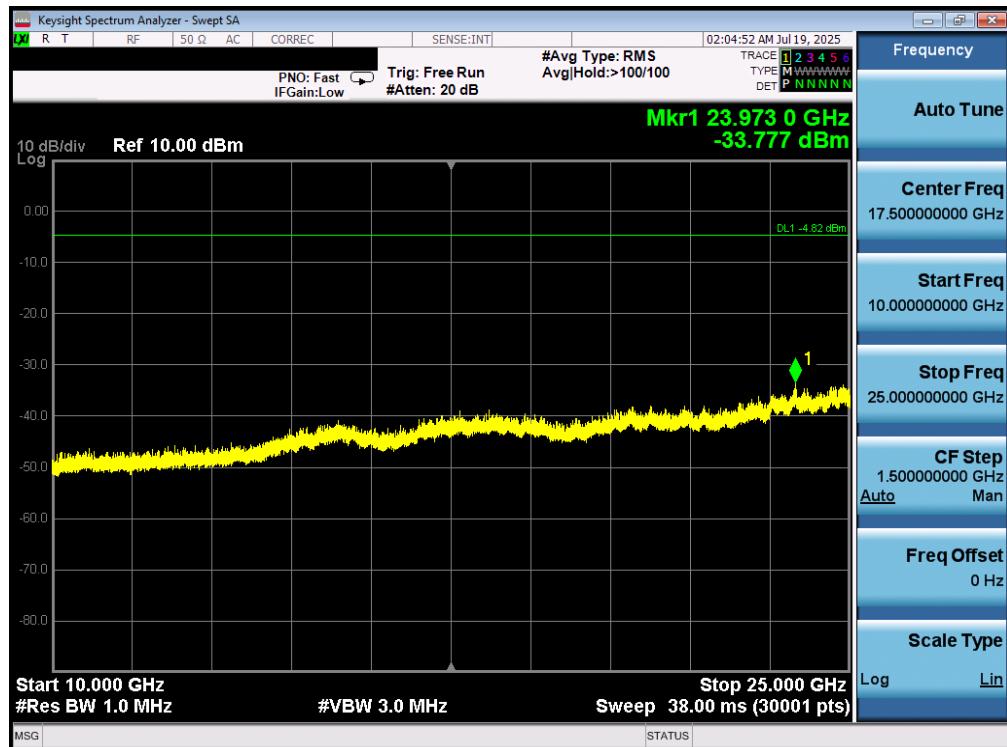


Plot 7-34. Conducted Spurious Plot (Bluetooth (HDR4), 4 Mbps – Ch. 1)

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-03-R1.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 40 of 66

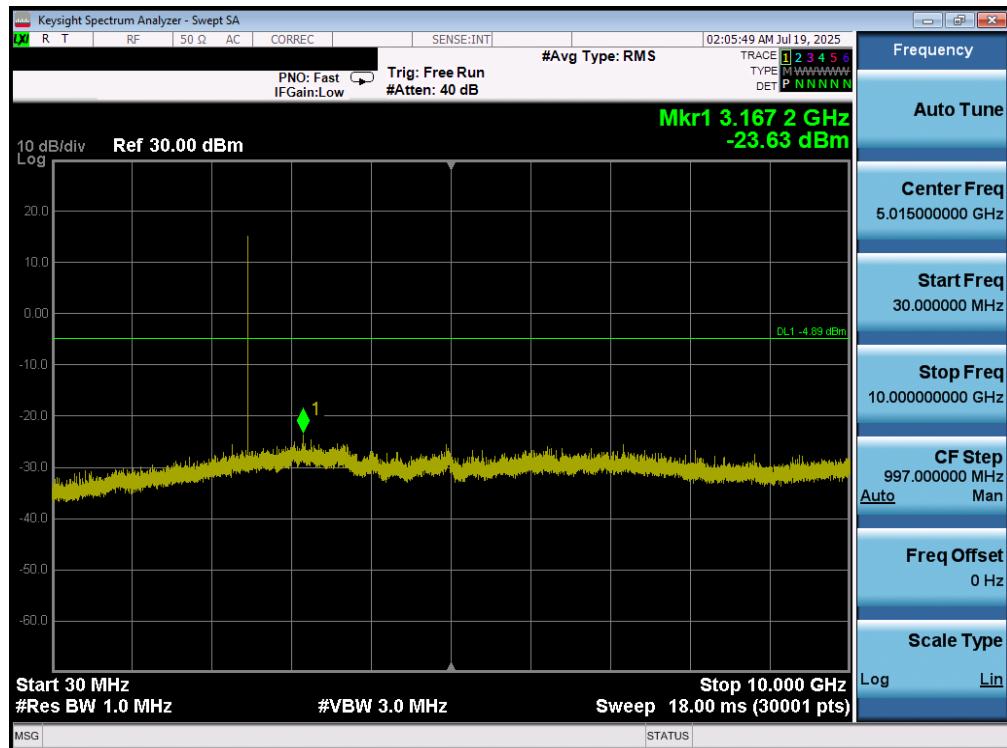


Plot 7-35. Conducted Spurious Plot (Bluetooth (HDR4), 4 Mbps – Ch. 38)

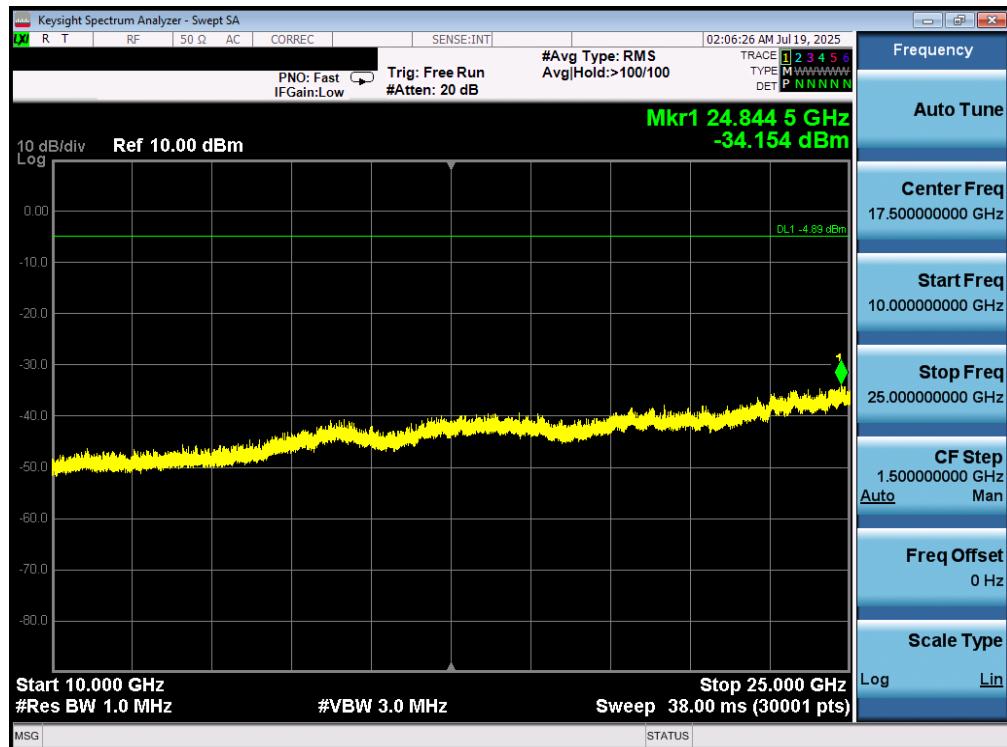


Plot 7-36. Conducted Spurious Plot (Bluetooth (HDR4), 4 Mbps – Ch. 38)

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-03-R1.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 41 of 66



Plot 7-37. Conducted Spurious Plot (Bluetooth (HDR4), 4 Mbps – Ch. 73)



Plot 7-38. Conducted Spurious Plot (Bluetooth (HDR4), 4 Mbps – Ch. 73)

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-03-R1.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 42 of 66

7.7 Radiated Spurious Emissions – Above 1GHz

§15.205 §15.209 §15.247(d); RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at maximum power and at the appropriate frequencies. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-6 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [μ V/m]	Measured Distance [Meters]
Above 960.0 MHz	500	3

Table 7-6. Radiated Limits

Test Procedures Used

ANSI C63.10-2020 – Subclause 6.6.4.3
KDB 558074 D01 v05r02 – Sections 8.6, 8.7

Test Settings

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be $\geq 2 \times$ span/RBW)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-03-R1.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 43 of 66

Test Setup

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

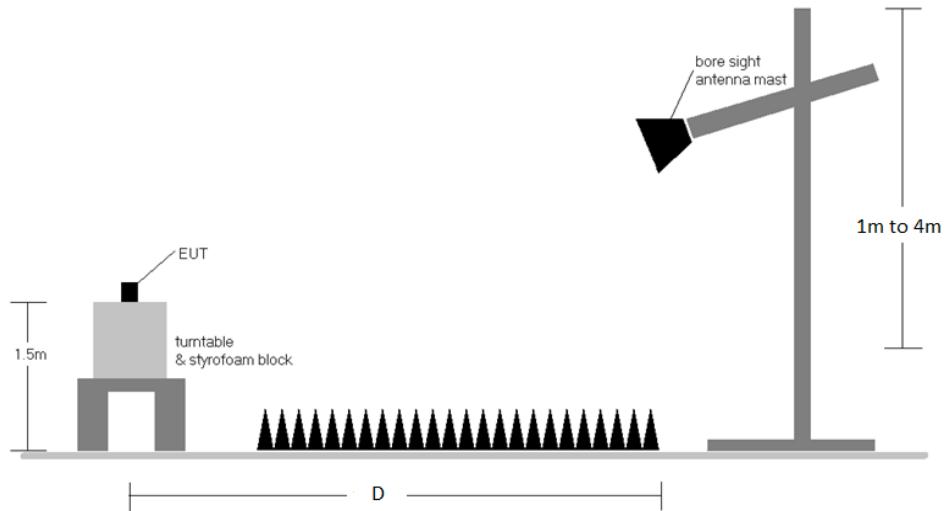


Figure 7-6. Radiated Test Setup >1GHz

Test Notes

1. The optional test procedures for antenna port conducted measurements of unwanted emissions per the guidance of KDB 558074 D01 v05r02 were not used to evaluate this device for compliance to radiated limits. All radiated spurious emissions levels were measured in a radiated test setup.
2. All emissions lying in restricted bands specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-6.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas.
6. D is the measurement test distance and emissions 1-18GHz were measured at a 3 meters test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
8. All supported modulations have been tested on the unit and only worst case configuration is reported.

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-03-R1.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 44 of 66

Sample Calculations

Determining Spurious Emissions Levels

- Field Strength Level $[\text{dB}_{\mu\text{V/m}}] = \text{Analyzer Level } [\text{dBm}] + 107 + \text{AFCL } [\text{dB/m}]$
- AFCL $[\text{dB/m}] = \text{Antenna Factor } [\text{dB/m}] + \text{Cable Loss } [\text{dB}] - \text{Preamplifier Gain } [\text{dB}]$
- Margin $[\text{dB}] = \text{Field Strength Level } [\text{dB}_{\mu\text{V/m}}] - \text{Limit } [\text{dB}_{\mu\text{V/m}}]$

Radiated Band Edge Measurement Offset

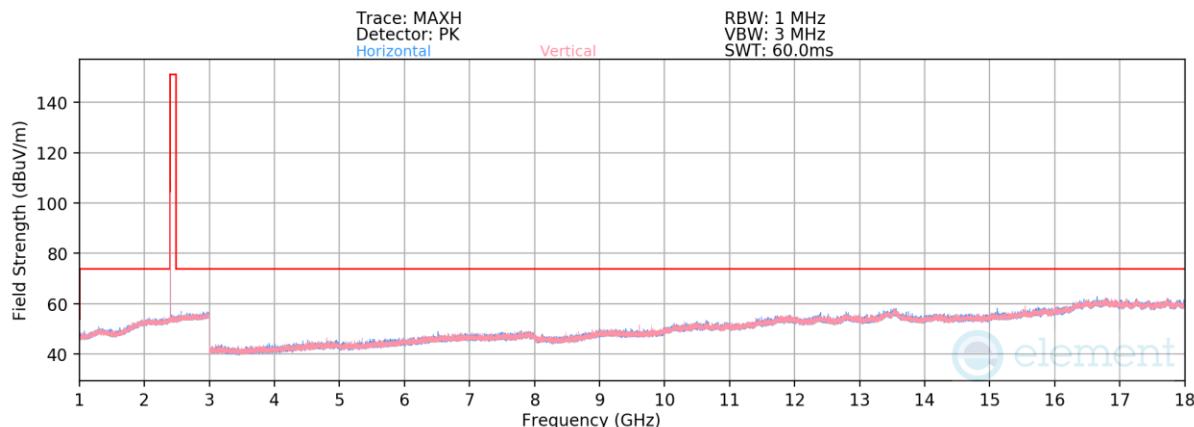
- The amplitude offset shown in the radiated restricted band edge plots in Section 7.7.2 was calculated using the formula:

Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

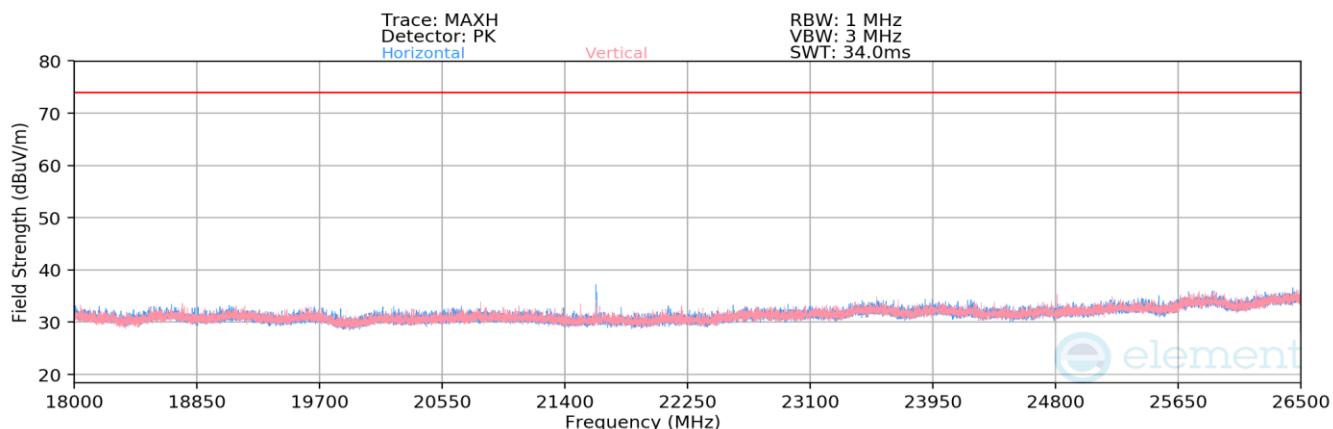
FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-03-R1.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 45 of 66

7.7.1 Radiated Spurious Emission Measurements (1 – 18GHz)

§15.205 §15.209 §15.247(d); RSS-Gen [8.9]



Plot 7-39. Radiated Spurious Emissions 1-18GHz (4Mbps, HDR4 – Ch. 1)



Plot 7-40. Radiated Spurious Emissions Above 18GHz (4Mbps, HDR4 – Ch. 1)

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-03-R1.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 46 of 66

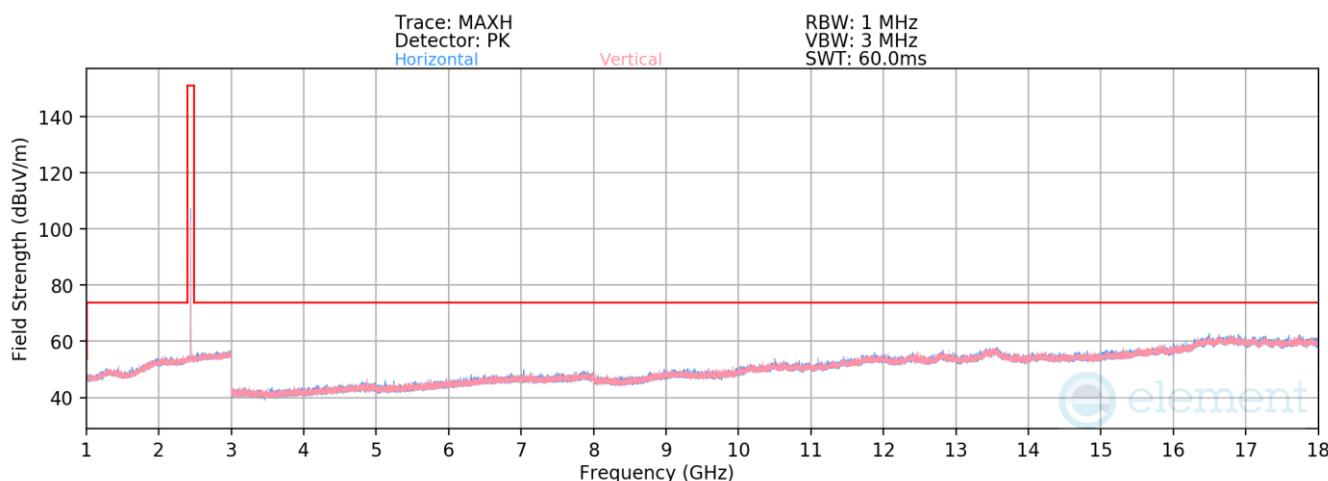


Bluetooth Mode: HDR4
Data Rate: 4Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2404MHz
Channel: 1

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Duty Cycle Correction [dB]	Dist. Corr. Factor [dB]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
4808.00	Avg	H	102	173	-82.47	9.38	1.09	0.00	35.00	53.98	-18.98
4808.00	Peak	H	102	173	-70.43	9.38	0.00	0.00	45.95	73.98	-28.03
12020.00	Avg	H	-	-	-84.10	20.56	0.00	0.00	43.46	53.98	-10.52
12020.00	Peak	H	-	-	-72.68	20.56	0.00	0.00	54.88	73.98	-19.10
19232.00	Avg	-	-	-	-60.36	-7.49	0.00	-9.54	29.61	53.98	-24.37
19232.00	Peak	-	-	-	-48.92	-7.49	0.00	-9.54	41.05	68.23	-27.18

Table 7-7. Radiated Spurious Emission Measurements

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-03-R1.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 47 of 66



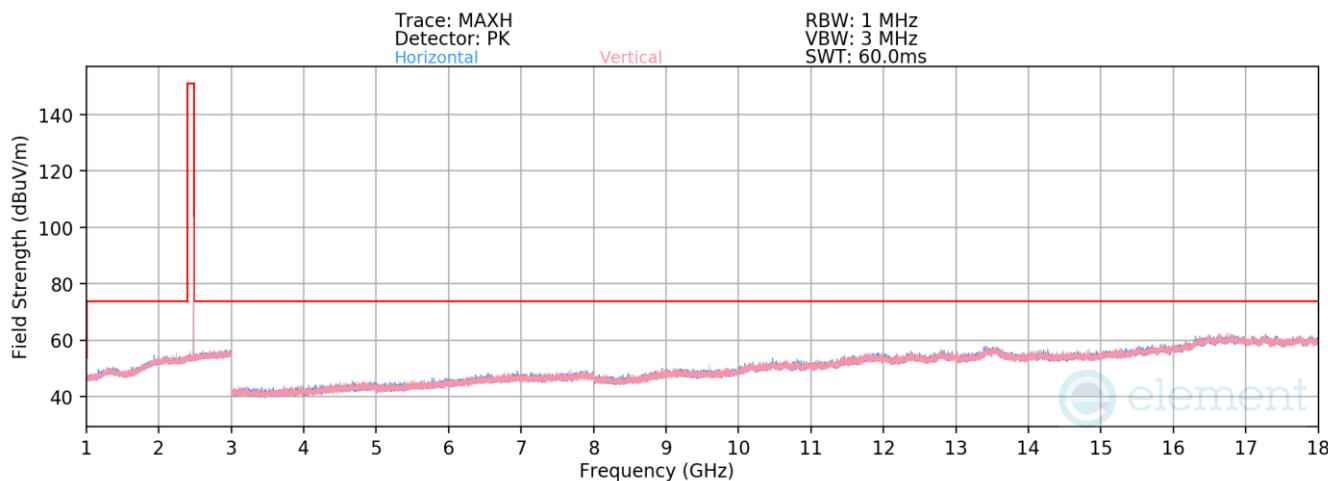
Plot 7-41. Radiated Spurious Emissions 1-18GHz (4Mbps, HDR4 – Ch. 38)

Bluetooth Mode:	<u>HDR4</u>
Data Rate:	<u>4Mbps</u>
Distance of Measurements:	<u>3 Meters</u>
Operating Frequency:	<u>2441MHz</u>
Channel:	<u>38</u>

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
4882.00	Avg	H	-	-	-81.87	9.44	34.57	53.98	-19.41
4882.00	Peak	H	-	-	-70.58	9.44	45.86	73.98	-28.12
7323.00	Avg	H	-	-	-83.50	13.23	36.73	53.98	-17.25
7323.00	Peak	H	-	-	-71.92	13.23	48.31	73.98	-25.67
12205.00	Avg	H	-	-	-85.29	21.09	42.80	53.98	-11.18
12205.00	Peak	H	-	-	-73.29	21.09	54.80	73.98	-19.18

Table 7-8. Radiated Spurious Emission Measurements

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-03-R1.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 48 of 66



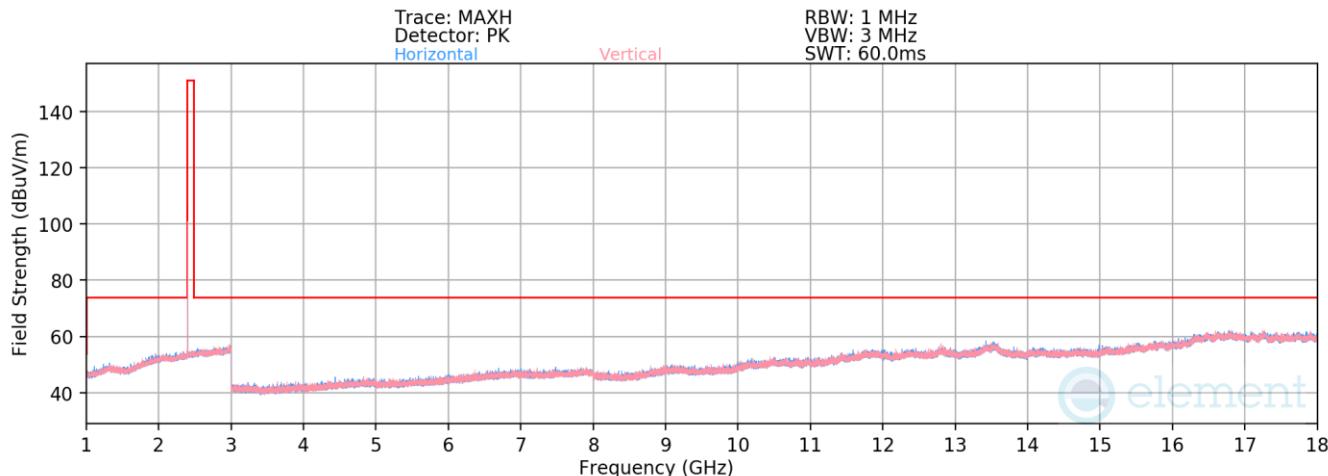
Plot 7-42. Radiated Spurious Emissions 1-18GHz (4Mbps, HDR4 – Ch. 73)

Bluetooth Mode: HDR4
 Data Rate: 4Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 2476MHz
 Channel: 73

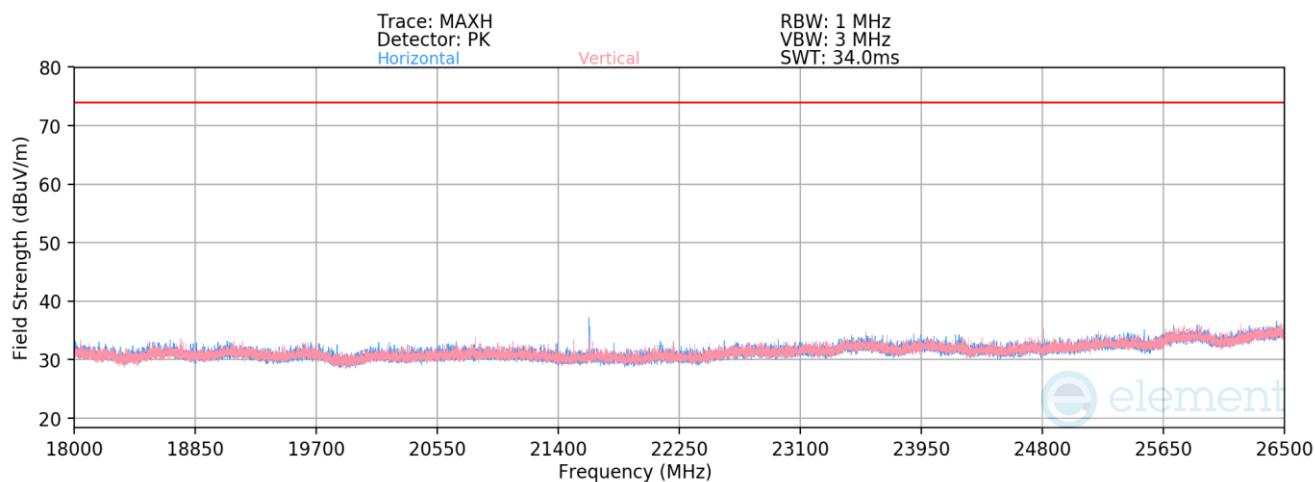
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
4952.00	Avg	H	-	-	-82.36	9.65	34.29	53.98	-19.69
4952.00	Peak	H	-	-	-71.16	9.65	45.49	73.98	-28.49
7428.00	Avg	H	-	-	-83.55	13.43	36.88	53.98	-17.10
7428.00	Peak	H	-	-	-72.17	13.43	48.26	73.98	-25.72
12380.00	Avg	H	-	-	-84.66	21.62	43.96	53.98	-10.02
12380.00	Peak	H	-	-	-72.86	21.62	55.76	73.98	-18.22

Table 7-9. Radiated Spurious Emission Measurements

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-03-R1.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 49 of 66



Plot 7-43. Radiated Spurious Emissions 1-18GHz (4Mbps, HDRp4 – Ch. 1)



Plot 7-44. Radiated Spurious Emissions Above 18GHz (4Mbps, HDRp4 – Ch. 1)

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-03-R1.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 50 of 66



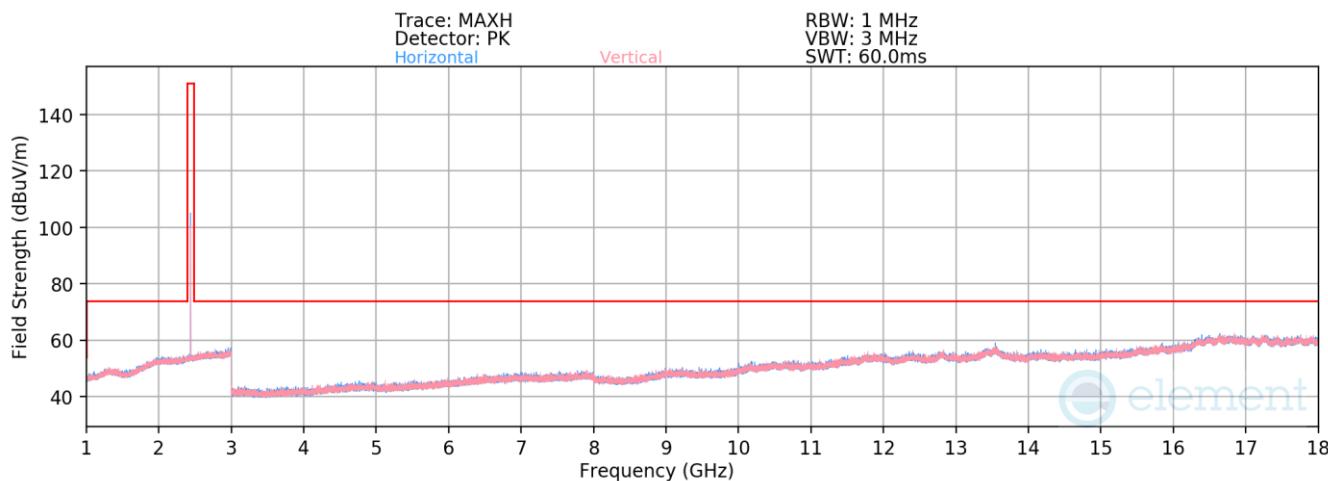
Bluetooth Mode: HDRp4
Data Rate: 4Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2404MHz
Channel: 1

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Duty Cycle Correction [dB]	Dist. Corr. Factor [dB]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
4808.00	Avg	V	101	132	-82.22	9.38	1.09	0.00	35.25	53.98	-18.73
4808.00	Peak	V	101	132	-70.85	9.38	0.00	0.00	45.53	73.98	-28.45
12020.00	Avg	V	-	-	-84.19	20.69	0.00	0.00	43.50	53.98	-10.48
12020.00	Peak	V	-	-	-73.06	20.69	0.00	0.00	54.63	73.98	-19.35
19232.00	Avg	-	-	-	-59.95	-7.49	0.00	-9.54	30.02	53.98	-23.96
19232.00	Peak	-	-	-	-48.83	-7.49	0.00	-9.54	41.14	73.98	-32.84

Table 7-10. Radiated Spurious Emission Measurements

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-03-R1.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 51 of 66

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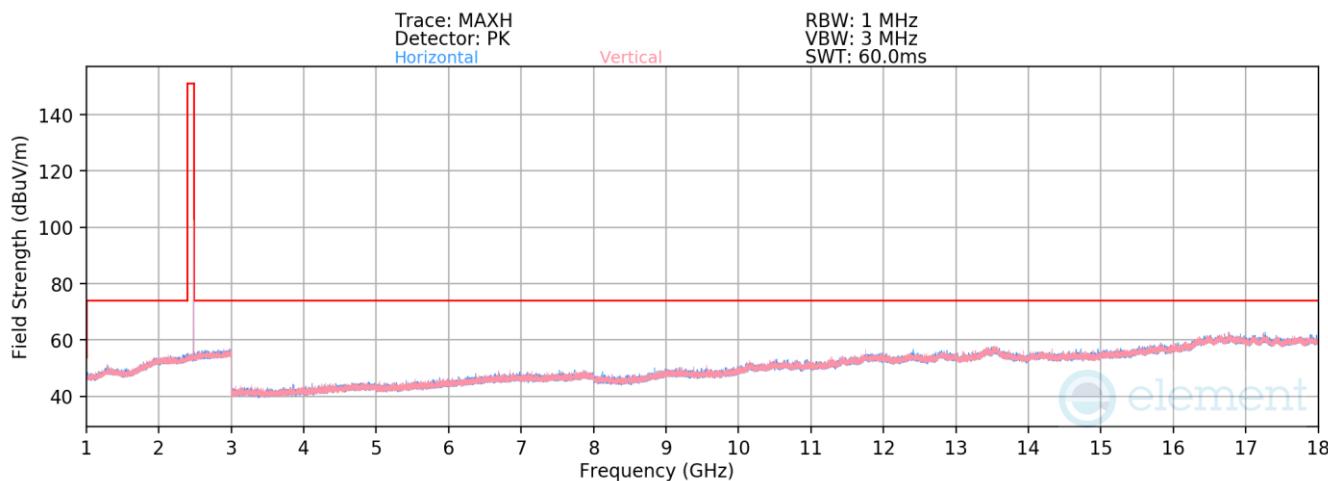
Plot 7-45. Radiated Spurious Emissions 1-18GHz (4Mbps, HDRp4 – Ch. 38)

Bluetooth Mode: HDRp4
 Data Rate: 4Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 2441MHz
 Channel: 38

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
4882.00	Avg	V	-	-	-82.03	9.72	34.69	53.98	-19.29
4882.00	Peak	V	-	-	-71.20	9.72	45.52	73.98	-28.46
7323.00	Avg	V	-	-	-83.66	13.25	36.59	53.98	-17.39
7323.00	Peak	V	-	-	-71.98	13.25	48.27	73.98	-25.71
12205.00	Avg	V	-	-	-85.10	21.05	42.95	53.98	-11.03
12205.00	Peak	V	-	-	-73.70	21.05	54.35	73.98	-19.63

Table 7-11. Radiated Spurious Emission Measurements

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-03-R1.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 52 of 66



Plot 7-46. Radiated Spurious Emissions 1-18GHz (4Mbps, HDRp4 – Ch. 73)

Bluetooth Mode: HDRp4
 Data Rate: 4Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 2476MHz
 Channel: 73

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
4952.00	Avg	V	-	-	-82.61	9.71	34.10	53.98	-19.88
4952.00	Peak	V	-	-	-71.38	9.71	45.33	73.98	-28.65
7428.00	Avg	V	-	-	-83.84	13.57	36.73	53.98	-17.25
7428.00	Peak	V	-	-	-72.34	13.57	48.23	73.98	-25.75
12380.00	Avg	V	-	-	-84.71	21.56	43.85	53.98	-10.13
12380.00	Peak	V	-	-	-73.48	21.56	55.08	73.98	-18.90

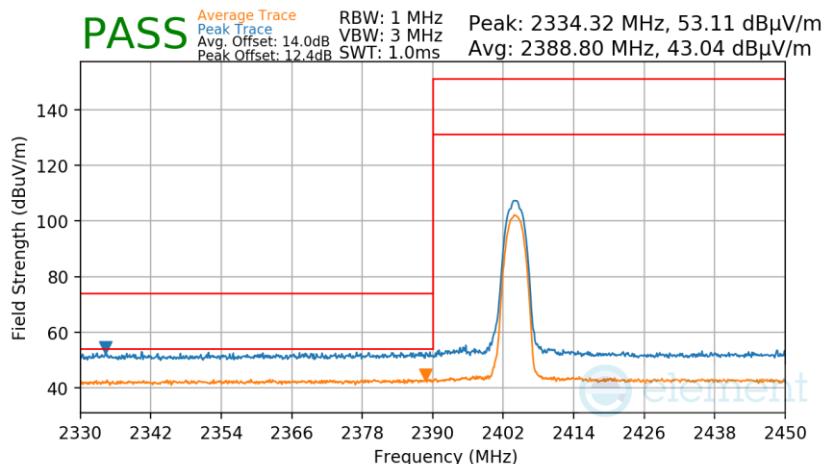
Table 7-12. Radiated Spurious Emission Measurements

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170043-03-R1.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 53 of 66

7.7.2 Radiated Restricted Band Edge Measurements

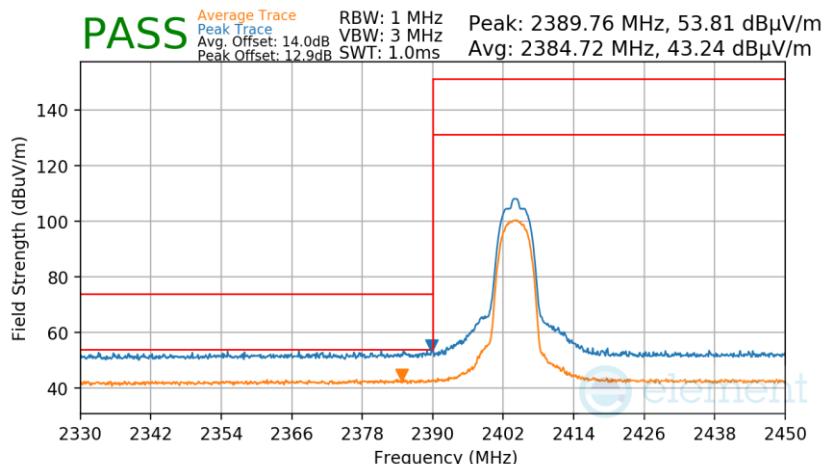
§15.205 §15.209; RSS-Gen [8.9]

Bluetooth Mode:	HDR4
Data Rate:	4Mbps
Measurement Distance:	3 Meters
Operating Frequency:	2404MHz
Channel:	1



Plot 7-47. Radiated Restricted Lower Band Edge Measurement

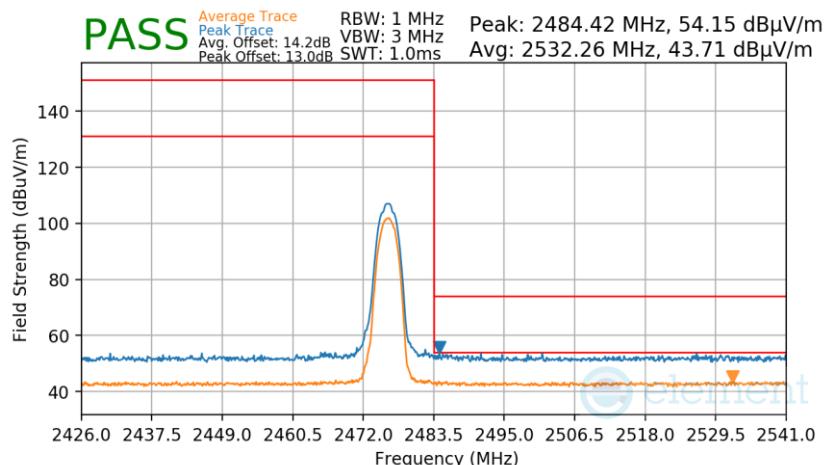
Bluetooth Mode:	HDR8
Data Rate:	8Mbps
Measurement Distance:	3 Meters
Operating Frequency:	2404MHz
Channel:	1



Plot 7-48. Radiated Restricted Lower Band Edge Measurement

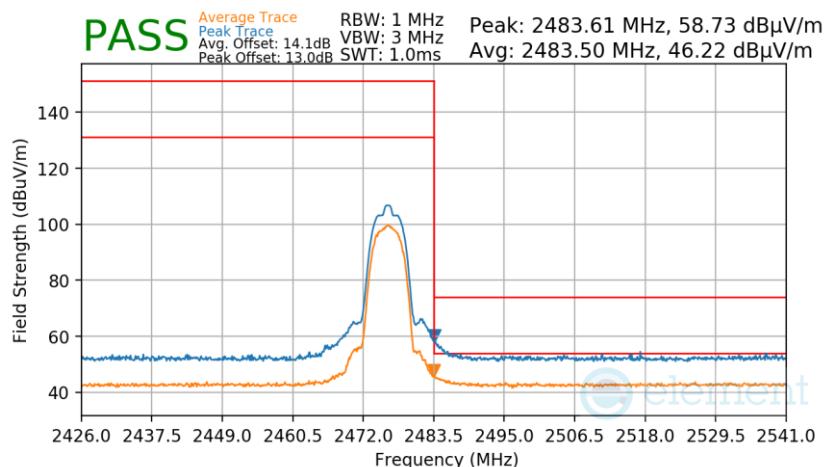
FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Bluetooth Mode: HDR4
 Data Rate: 4Mbps
 Measurement Distance: 3 Meters
 Operating Frequency: 2476MHz
 Channel: 73



Plot 7-49. Radiated Restricted Upper Band Edge Measurement

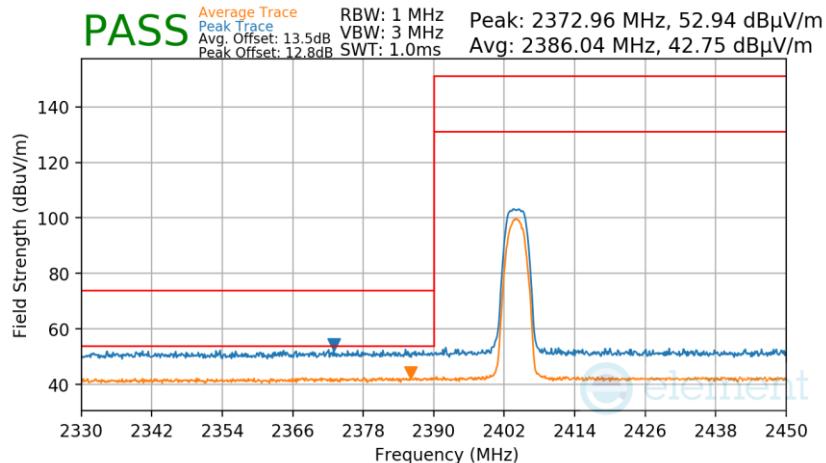
Bluetooth Mode: HDR8
 Data Rate: 8Mbps
 Measurement Distance: 3 Meters
 Operating Frequency: 2476MHz
 Channel: 73



Plot 7-50. Radiated Restricted Upper Band Edge Measurement

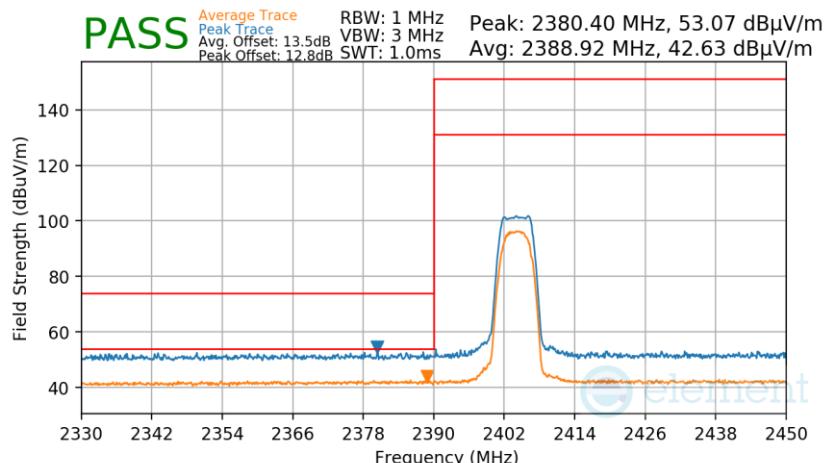
FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Bluetooth Mode: HDRp4
 Data Rate: 4Mbps
 Measurement Distance: 3 Meters
 Operating Frequency: 2404MHz
 Channel: 1



Plot 7-51. Radiated Restricted Lower Band Edge Measurement

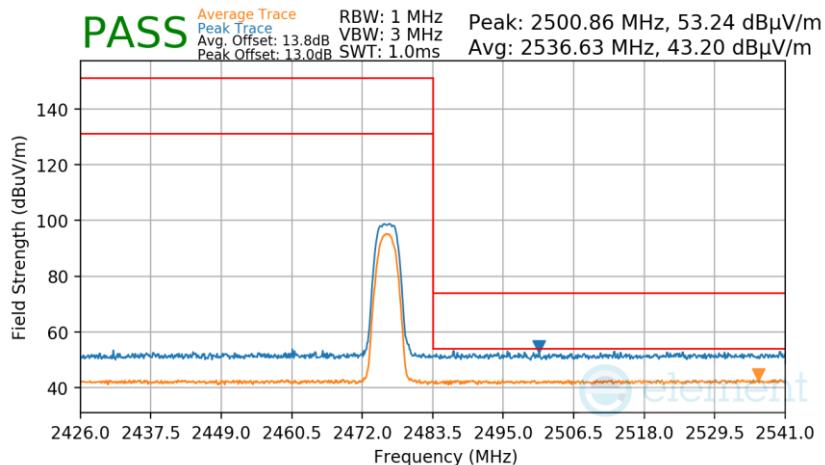
Bluetooth Mode: HDRp8
 Data Rate: 8Mbps
 Measurement Distance: 3 Meters
 Operating Frequency: 2404MHz
 Channel: 1



Plot 7-52. Radiated Restricted Lower Band Edge Measurement

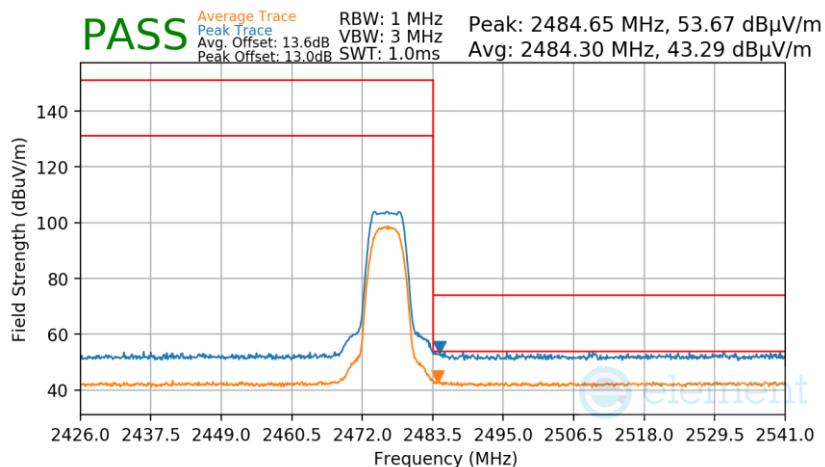
FCC ID: BCG-A3063 IC: 579C-A3063		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Bluetooth Mode: HDRp4
 Data Rate: 4Mbps
 Measurement Distance: 3 Meters
 Operating Frequency: 2476MHz
 Channel: 73



Plot 7-53. Radiated Restricted Upper Band Edge Measurement

Bluetooth Mode: HDRp8
 Data Rate: 8Mbps
 Measurement Distance: 3 Meters
 Operating Frequency: 2476MHz
 Channel: 73



Plot 7-54. Radiated Restricted Upper Band Edge Measurement

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7.8 Radiated Spurious Emissions – Below 1GHz

§15.209; RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-13 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [μ V/m]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

Table 7-13. Radiated Limits

Test Procedures Used

ANSI C63.10-2020

Test Settings

Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. VBW = 300kHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

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Test Setup

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

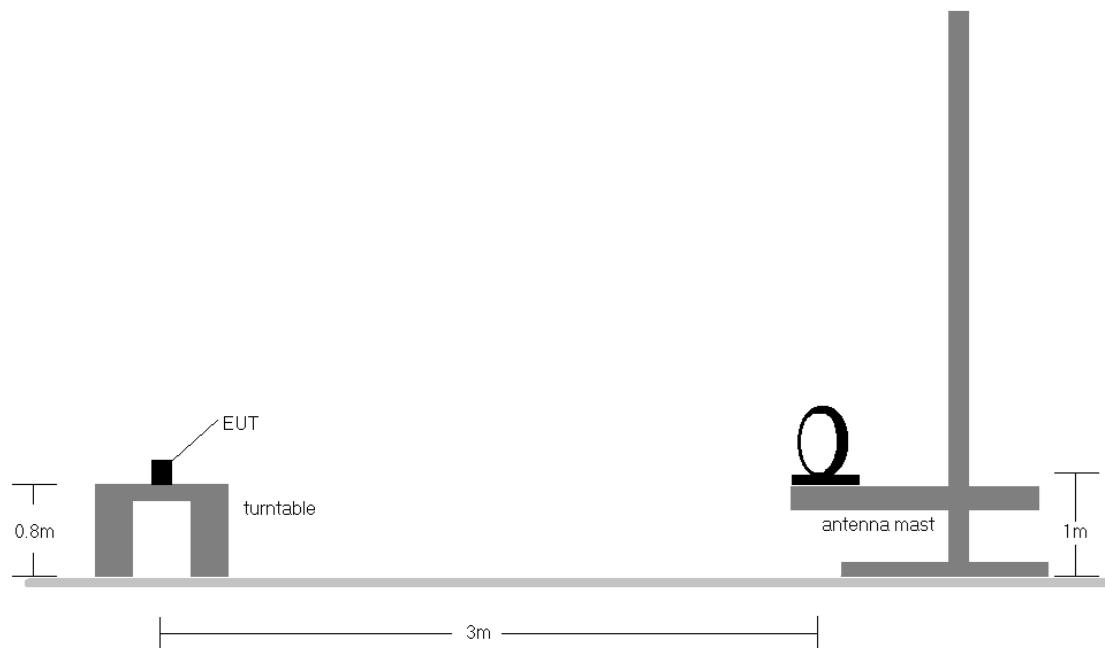


Figure 7-7. Radiated Test Setup < 30MHz

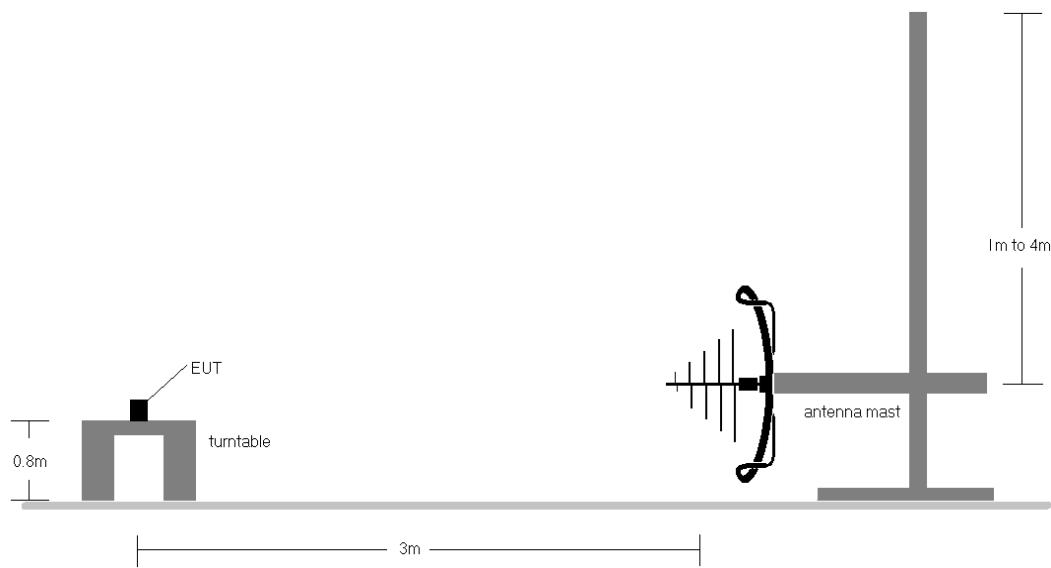


Figure 7-8. Radiated Test Setup < 1GHz

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Test Notes

1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen (8.10) are below the limit shown in Table 7-13.
2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes. For below 30MHz the loop antenna was positioned in 3 orthogonal planes (X front, Y side, Z top) to determine the orientation resulting in the worst case emissions.
3. This unit was tested with its standard battery.
4. The spectrum is investigated using a peak detector and final measurements are recorded using CISPR quasi peak detector on emissions that were within 6dB of the limit.
5. Emissions were measured at a 3 meter test distance.
6. Emissions are investigated while operating on the center channel of the mode, band, and modulation that produced the worst case results during the transmitter spurious emissions testing.
7. No spurious emissions were detected within 20dB of the limit below 30MHz.
8. The results recorded using the broadband antenna is known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.
9. All supported modulations have been tested on the unit and only worst case configuration is reported.
10. Both configurations below were investigated, and the worst case has been reported.
 - a. EUT charged by charging case and powered by AC/DC adaptor with USB-C cable
 - b. EUT charged by charging case and powered by host PC with USB-C cable

Sample Calculations

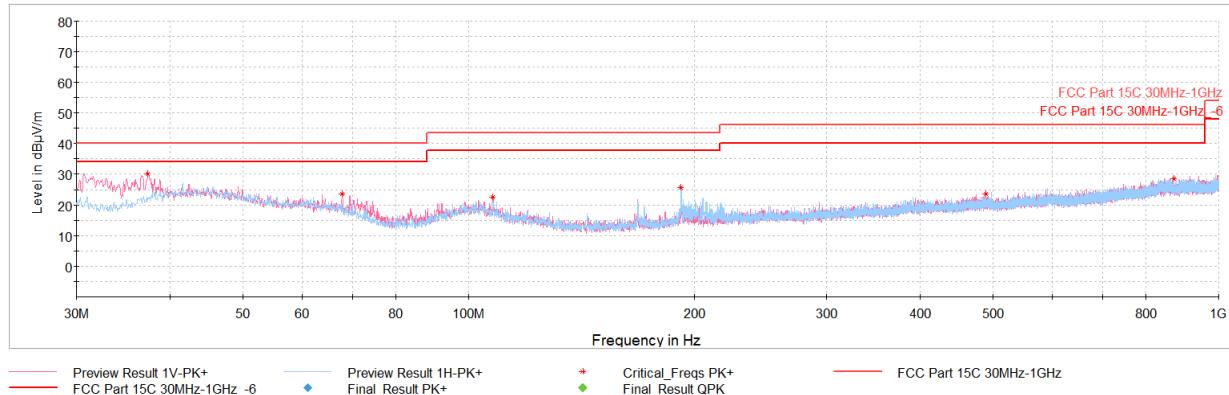
Determining Spurious Emissions Levels

- Field Strength Level $[\text{dB}_{\mu\text{V/m}}]$ = Analyzer Level $[\text{dBm}]$ + 107 + AFCL $[\text{dB/m}]$
- AFCL $[\text{dB/m}]$ = Antenna Factor $[\text{dB/m}]$ + Cable Loss $[\text{dB}]$ – Preamplifier Gain $[\text{dB}]$
- Margin $[\text{dB}]$ = Field Strength Level $[\text{dB}_{\mu\text{V/m}}]$ – Limit $[\text{dB}_{\mu\text{V/m}}]$

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Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]



Plot 7-55. Radiated Spurious Emissions Below 1GHz (4Mbps – Ch.1 with AC/DC Adapter)

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
37.37	Max-Peak	V	100	138	-60.44	-16.69	29.87	40.00	-10.13
67.88	Max-Peak	V	100	321	-65.06	-18.37	23.57	40.00	-16.43
107.84	Max-Peak	V	100	204	-67.76	-16.62	22.62	43.52	-20.90
191.75	Max-Peak	H	100	19	-64.81	-16.34	25.85	43.52	-17.67
488.96	Max-Peak	H	300	225	-74.56	-8.69	23.75	46.02	-22.27
870.41	Max-Peak	H	100	256	-76.41	-2.05	28.54	46.02	-17.48

Table 7-14. Radiated Spurious Emissions Below 1GHz (4Mbps – Ch.1 with AC/DC Adapter)

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.9 AC Line-Conducted Emissions Measurement

§15.207; RSS-Gen [8.8]

Test Overview and Limit

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for AC Line conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section.

All conducted emissions must not exceed the limits shown in the table below, per Section 15.207 and RSS-Gen (8.8).

Frequency of emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

Table 7-15. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10-2020, Subclause 6.2

Test Settings

Quasi-Peak Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

Average Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = RMS
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

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Test Setup

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

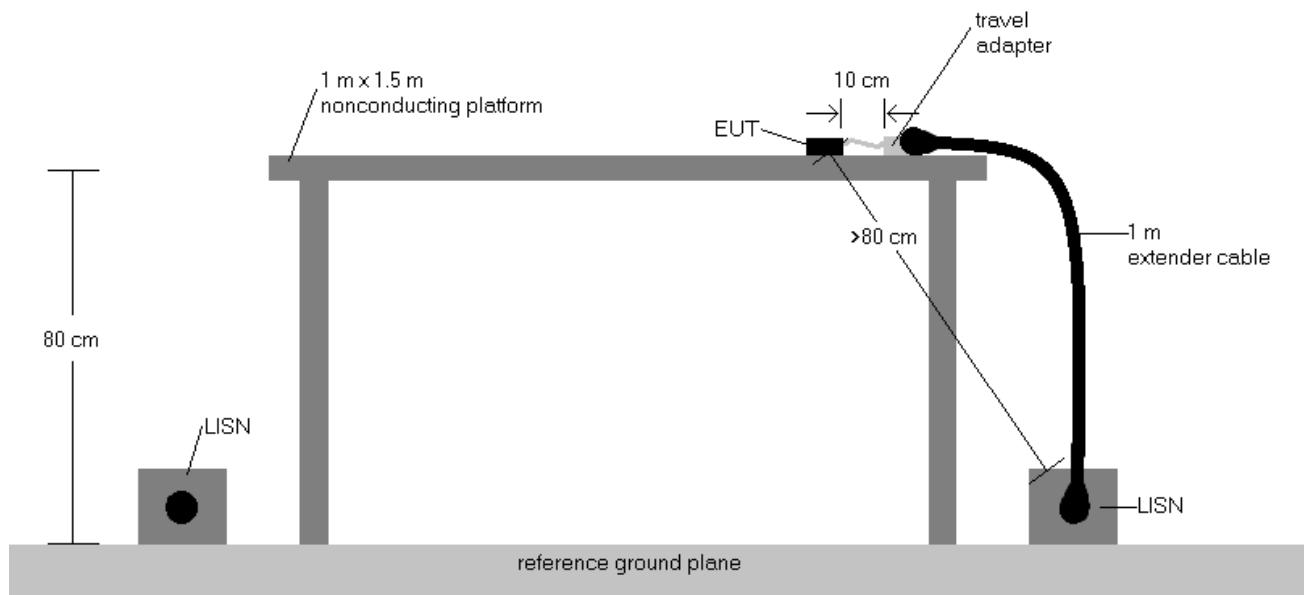
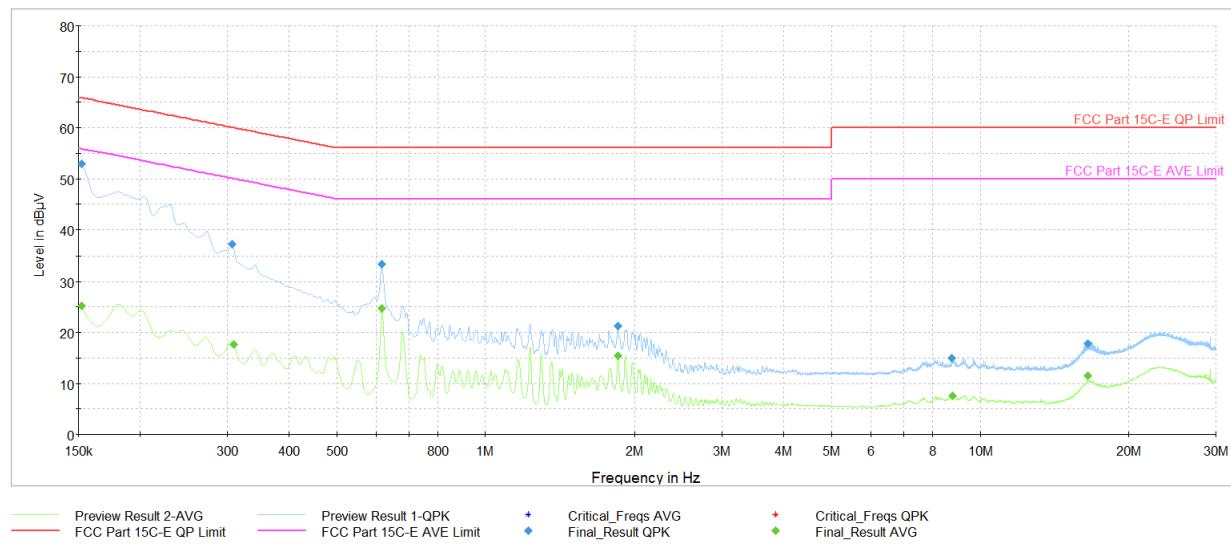


Figure 7-9. Test Instrument & Measurement Setup

Test Notes

1. All modes of operation were investigated and the worst-case emissions are reported. The emissions found were not affected by the choice of channel used during testing.
2. Both configurations below were investigated, and the worst case has been reported.
 - a. EUT charged by charging case and powered by AC/DC adaptor with USB-C cable
 - b. EUT charged by charging case and powered by host PC with USB-C cable
3. The limit for an intentional radiator from 150kHz to 30MHz are specified in Part 15.207 and RSS-Gen(8.8).
4. Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
5. QP/AV Level (dB μ V) = QP/AV Analyzer/Receiver Level (dB μ V) + Correction Factor (dB)
6. Margin (dB) = QP/AV Level (dB μ V) - QP/AV Limit (dB μ V)
7. Traces shown in plot are made using quasi peak and average detectors.
8. Deviations to the Specifications: None.

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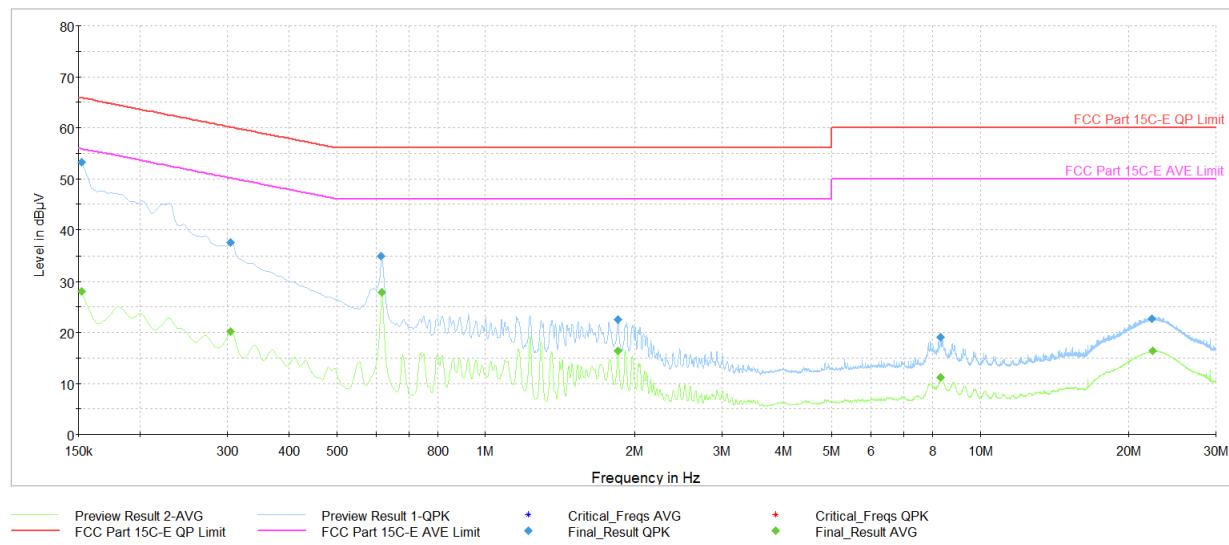


Plot 7-56. AC Line Conducted Plot with Bluetooth HDR (L1, 4Mbps - Ch.38 with Laptop)

Frequency [MHz]	Process State	QuasiPeak [dB μ V]	Average [dB μ V]	Limit [dB μ V]	Margin [dB]	Line	PE
0.152	FINAL	—	25.16	55.88	-30.71	L1	GND
0.152	FINAL	53.0	—	65.88	-12.90	L1	GND
0.308	FINAL	37.1	—	60.04	-22.91	L1	GND
0.310	FINAL	—	17.63	49.98	-32.35	L1	GND
0.618	FINAL	—	24.70	46.00	-21.30	L1	GND
0.618	FINAL	33.3	—	56.00	-22.67	L1	GND
1.847	FINAL	21.3	—	56.00	-34.69	L1	GND
1.849	FINAL	—	15.38	46.00	-30.63	L1	GND
8.770	FINAL	15.0	—	60.00	-45.03	L1	GND
8.795	FINAL	—	7.63	50.00	-42.37	L1	GND
16.490	FINAL	—	11.55	50.00	-38.45	L1	GND
16.490	FINAL	17.9	—	60.00	-42.13	L1	GND

Table 7-16. AC Line Conducted Data with Bluetooth HDR (L1, 4Mbps - Ch.38 with Laptop)

FCC ID: BCG-A3063 IC: 579C-A3063	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-57. AC Line Conducted Plot with Bluetooth HDR (N, 4Mbps - Ch.38 with Laptop)

Frequency [MHz]	Process State	QuasiPeak [dB μ V]	Average [dB μ V]	Limit [dB μ V]	Margin [dB]	Line	PE
0.152	FINAL	—	28.06	55.88	-27.82	N	GND
0.152	FINAL	53.2	—	65.88	-12.69	N	GND
0.305	FINAL	—	20.14	50.10	-29.96	N	GND
0.305	FINAL	37.4	—	60.10	-22.68	N	GND
0.616	FINAL	35.0	—	56.00	-20.97	N	GND
0.618	FINAL	—	27.91	46.00	-18.09	N	GND
1.849	FINAL	22.6	—	56.00	-33.42	N	GND
1.849	FINAL	—	16.46	46.00	-29.54	N	GND
8.315	FINAL	19.0	—	60.00	-40.97	N	GND
8.318	FINAL	—	11.14	50.00	-38.86	N	GND
22.220	FINAL	22.6	—	60.00	-37.40	N	GND
22.326	FINAL	—	16.37	50.00	-33.63	N	GND

Table 7-17. AC Line Conducted Data with Bluetooth HDR (N, 4Mbps - Ch.38 with Laptop)

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

The data collected relate only the item(s) tested and show that the **Apple Wireless Right Earbud** **FCC ID: BCG-A3063 and IC: 579C-A3063** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules and RSS-247 of the Innovation, Science and Economic Development Canada Rules.

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Test Report S/N: 1C2504170043-03-R1.BCG	Test Dates: 5/15/2025 - 7/24/2025	EUT Type: Wireless Right Earbud	Page 66 of 66