

MEASUREMENT REPORT

FCC PART 15.247 / ISSED RSS-247 Bluetooth

Applicant Name:

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

Date of Testing:

05/12/2025 - 09/02/2025

Test Report Issue Date:

9/11/2025

Test Site/Location:

Element Materials Technology, Morgan Hill, CA, USA

Test Report Serial No.:

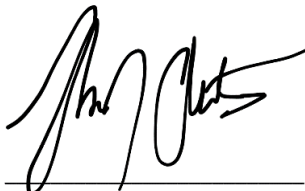
1C2504170040-09.BCG

FCC ID:	BCGA3360
IC:	579C-A3360
APPLICANT:	Apple Inc.

Application Type:	Certification
Model/HVIN:	A3360
EUT Type:	Tablet Device
Max. RF Output Power	231.739 mW (23.65 dBm) Peak Conducted
Frequency Range:	2402 – 2480MHz
Type of Modulation:	GFSK, $\pi/4$ -DQPSK, 8DPSK
FCC Classification:	FCC Part 15 Spread Spectrum Transmitter (DSS)
FCC Rule Part(s):	Part 15 Subpart C (15.247)
ISED Specification:	RSS-247 Issue 3
Test Procedure(s):	ANSI C63.10-2020

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. 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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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 Tablet Device FCC ID: BCGA3360 and IC: 579C-A3360**. The test data contained in this report pertains only to the emissions due to the EUT's Bluetooth transmitter.

- This Bluetooth module has been tested by manufacturer and the following were confirmed:
 - A) The hopping sequence is pseudorandom
 - B) All channels are used equally on average
 - C) The receiver input bandwidth equals the transmit bandwidth
 - D) The receiver hops in sequence with the transmit signal
- 15.247(g): In accordance with the Bluetooth Industry Standard, the system is designed to comply with all of the regulations in Section 15.247 when the transmitter is presented with a continuous data (or information) system.
- 15.247(h): In accordance with the Bluetooth Industry Standard, the system does not coordinate its channels selection/ hopping sequence with other frequency hopping systems for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters.
- 15.247(h): The EUT employs Adaptive Frequency Hopping (AFH) which identifies sources of interference namely devices operating in 802.11 WLAN and excludes them from the list of available channels. The process of re-mapping reduces the number of test channels from 79 channels to a minimum number of 20 channels.

Test Device Serial No.: MP4F34H533, KNXYKTV4H9, FVN74XCR7Q, H9HHG4000D20000SDT, H9HHG4000F20000SDT

2.2 Device Capabilities

This device contains the following capabilities:

802.11b/g/n/ax/be WLAN, 802.11a/n/ac/ax/be UNII (5GHz and 6GHz), 802.15.4, Bluetooth (1x, EDR, LE, HDR, HDT), Narrowband (NB) UNII (5GHz and 6GHz), WPT.

This device supports BT Beamforming.

This device supports channel puncturing and channel bandwidth reduction.

Ch.	Frequency (MHz)
00	2402
:	:
39	2441
:	:
78	2480

Table 2-1. Bluetooth Frequency/ Channel Operations

Note: This device is capable of operating in hopping and non-hopping mode. The EUT can hop between 79 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:

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Bluetooth Mode		Antenna WF8		Antenna WF7		Antenna WF9		TxBF Primary		TxBF Diversity	
		Duty Cycle [%]	DCCF [dB]	Duty Cycle [%]	DCCF [dB]	Duty Cycle [%]	DCCF [dB]	Duty Cycle [%]	DCCF [dB]	Duty Cycle [%]	DCCF [dB]
GFSK	ePA	76.30	1.17	76.46	1.17	76.40	1.17	76.30	1.17	76.30	1.17
	iPA										
8PSK	ePA	76.37	1.17	76.50	1.16	76.45	1.17	76.35	1.17	76.41	1.17
	iPA										
π/4-DQPSK	ePA	76.58	1.16	76.55	1.16	76.55	1.16	76.46	1.17	76.55	1.16
	iPA										

Table 2-2. Measured Duty Cycles

TxBF Primary = Antenna WF8 + Antenna WF7

TxBF Diversity = Antenna WF8 + Antenna WF9

This device supports simultaneous transmission operations, which allows multiple transmitters to transmit simultaneously on the same antenna. The table below shows all configurations possible.

Antenna	Simultaneous Tx Config	Bluetooth 2.4GHz	Thread	WLAN	NB UNII	WIFI 5GHz	WFI 6GHz
		BDR, EDR, LE, HDR, HDT	802.15.4	802.11 b/g/n/ax/be	BDR, EDR, LE, HDR, HDT	802.11 a/n/ac/ax/be	802.11 a/ax/be
Ant WF7	Config 1	✓	✗	✗	✗	✓	✗
Ant WF7	Config 2	✓	✗	✗	✗	✗	✓
Ant WF7	Config 3	✗	✓	✗	✗	✓	✗
Ant WF7	Config 4	✗	✓	✗	✗	✗	✓
Ant WF7	Config 5	✗	✗	✓	✓	✗	✗
Ant WF7	Config 6	✗	✗	✓	✗	✓	✗
Ant WF7	Config 7	✗	✗	✓	✗	✗	✓
Ant WF8	Config 8	✓	✗	✗	✗	✓	✗
Ant WF8	Config 9	✓	✗	✗	✗	✗	✓
Ant WF8	Config 10	✗	✓	✗	✗	✓	✗
Ant WF8	Config 11	✗	✓	✗	✗	✗	✓
Ant WF8	Config 12	✗	✗	✓	✓	✗	✗
Ant WF8	Config 13	✗	✗	✓	✗	✓	✗
Ant WF8	Config 14	✗	✗	✓	✗	✗	✓

Table 2-3. Simultaneous Transmission Configurations

✓ = Support; ✗ = Not Support

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2.3 Antenna Description

Following antenna gains provided by manufacturer were used for testing.

Frequency [GHz]	Antenna Gain (dBi)		
	Antenna WF8	Antenna WF7	Antenna WF9
2.4	2.1	1.9	0.5

Table 2-4. Highest Antenna Gain

2.4 Test Support Equipment

1	Apple MacBook Pro w/AC/DC Adapter	Model: A2141 Model: A2166	S/N: C02H604EQ05D S/N: C4H042705ZNP MOWA6
2	Apple USB-C Cable	Model: Spartan	S/N: GXK1336018XKTR024
3	USB-C Cable w/ AC Adapter	Model: A2795 Model: A2305	S/N: DWH80115BK826GV19 S/N: C4H95160004PF4F4V
4	Apple Pencil	Model: A2538	S/N: KJ26TCFXJW
5	DC Power Supply	Model: KPS3010D	S/N: N/A

Table 2-5. Test Support Equipment List

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2.5 Test Configuration

The EUT was tested per the guidance of ANSI C63.10-2020. ANSI C63.10-2020 was also 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, 7.6, 7.7, and 7.8 for antenna port conducted emissions test setups.

There are two vendors of the WiFi/Bluetooth radio modules, variant 1 and variant 2. Both radio modules have the same mechanical outline, same on-board antenna matching circuit, identical antenna structure, and are built and tested to conform to the same specifications and to operate within the same tolerances. The worst case configuration was found between the two variants. The EUT was also investigated with and without charger.

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 were reported.

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 powered by AC/DC adaptor via USB-C cable with wire charger
- EUT powered by host PC via USB-C cable with wire charger

$\pi/4$ -DQPSK has been investigated and confirmed as not the worst case.

All possible simultaneous transmission configurations have been investigated and the worst case config has been reported.

Description	Bluetooth	UNII
Antenna	Antenna WF7	Antenna WF7
Channel	78	36
Operating Frequency (MHz)	2480	5180
Mode/Modulation	GFSK ePA	802.11n

Table 2-6. Worst Case Simultaneous Transmission Configuration

2.6 Software and Firmware

The test was conducted with firmware version 23A256 installed on the EUT.

2.7 EMI Suppression Device(s)/Modifications

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

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3.0 DESCRIPTION OF TESTS

3.1 Evaluation Procedure

The measurement procedure described in the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices (ANSI C63.10-2020) was 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 7.12. 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 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
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

Notes:

- 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.
- * 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: BCGA3360
 IC: 579C-A3360
 Method/System: Frequency Hopping Spread Spectrum (FHSS)
 Number of Channels: 79

FCC Part Section(s)	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.247(a)(1)	RSS-247 [5.1(a)]	20dB Bandwidth	N/A	CONDUCTED	N/A	Section 7.2
2.1049	RSS-Gen [6.7]	Occupied Bandwidth	N/A		N/A	Section 7.2
15.247(b)(1)	RSS-247 [5.4(b)]	Peak Transmitter Output Power	< 1 Watt if ≥ 75 non-overlapping channels used		PASS	Section 7.3
15.247(a)(1)	RSS-247 [5.1(b)]	Channel Separation	> 2/3 of 20 dB BW for systems with Output Power < 125mW		PASS	Section 7.5
15.247(a)(1)(iii)	RSS-247 [5.1(d)]	Time of Occupancy	< 0.4 sec in 31.6 sec period		PASS	Section 7.6
15.247(a)(1)(iii)	RSS-247 [5.1(d)]	Number of Channels	> 15 Channels		PASS	Section 7.7
15.247(d)	RSS-247 [5.5]	Band Edge / Out-of-Band Emissions	> 20dBc		PASS	Section 7.4, 7.8
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-247 limits)	RADIATED	PASS	Section 7.9, 7.10
15.207	RSS-Gen [8.8]	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.207 limits (RSS-Gen [8.8] limits)	LINE CONDUCTED	PASS	Section 7.11

Table 7-1. Summary of Test Results

Notes:

- 1) All modes of operation and 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, attenuators, and couplers.
- 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)(1); RSS-247 [5.1(a)]; RSS-Gen [6.7]

Test Overview and Limit

The bandwidth at 20dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the receive antenna while the EUT is operating in transmission mode at the appropriate frequencies.

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.

Test Procedure Used

ANSI C63.10-2020 – Subclause 6.9.2
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 20dB bandwidth measurement. The "X" dB bandwidth parameter was set to $X = 20$. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. $RBW = 1 - 5\% \text{ OBW}$
3. $VBW \geq 3 \times RBW$
4. Reference level set to keep signal from exceeding maximum input mixer level for linear operation.
5. Detector = Peak
6. Trace mode = max hold
7. Sweep = auto couple
8. The trace was allowed to stabilize
9. 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

All supported modulation, antenna (including TxBF mode) and power schemes have been tested on the unit and only worst case configuration is reported.

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7.2.1 Antenna WF8

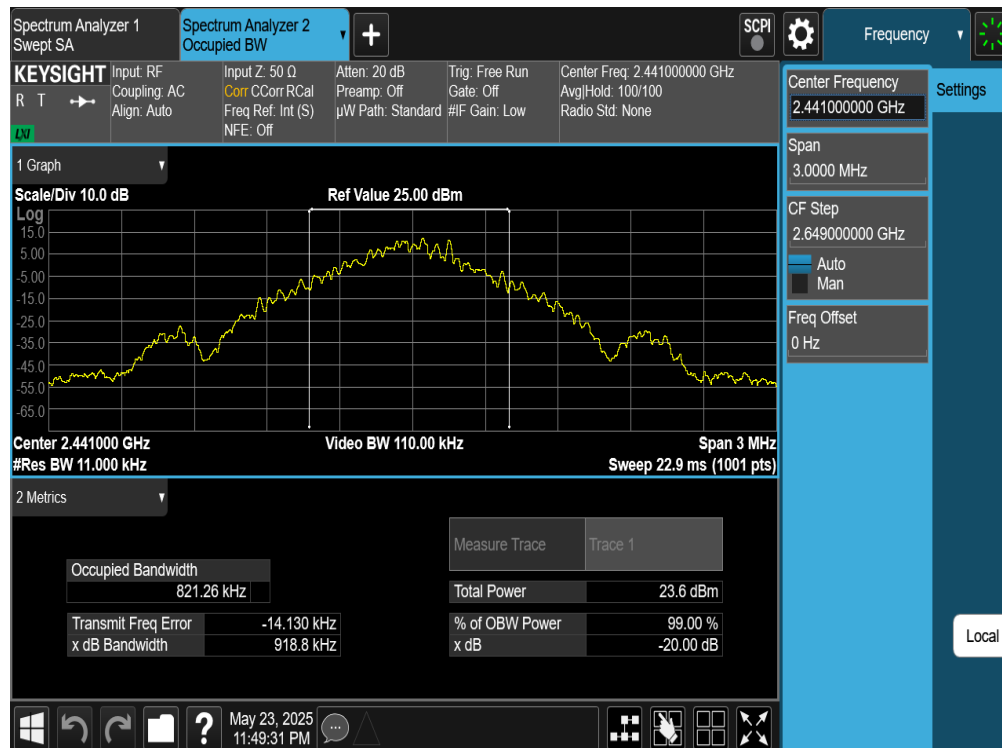
Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Measured 99% Occupied Bandwidth [kHz]	Measured 20dB Bandwidth [kHz]
2402	1.0	GFSK	ePA	0	822.78	880.63
2441	1.0	GFSK	ePA	39	821.26	918.84
2480	1.0	GFSK	ePA	78	820.88	919.66
2402	3.0	8DPSK	ePA	0	1180.19	1270.10
2441	3.0	8DPSK	ePA	39	1180.11	1270.11
2480	3.0	8DPSK	ePA	78	1179.11	1270.36

Table 7-2. 20dB BW and 99% OBW Measurements Antenna WF8

FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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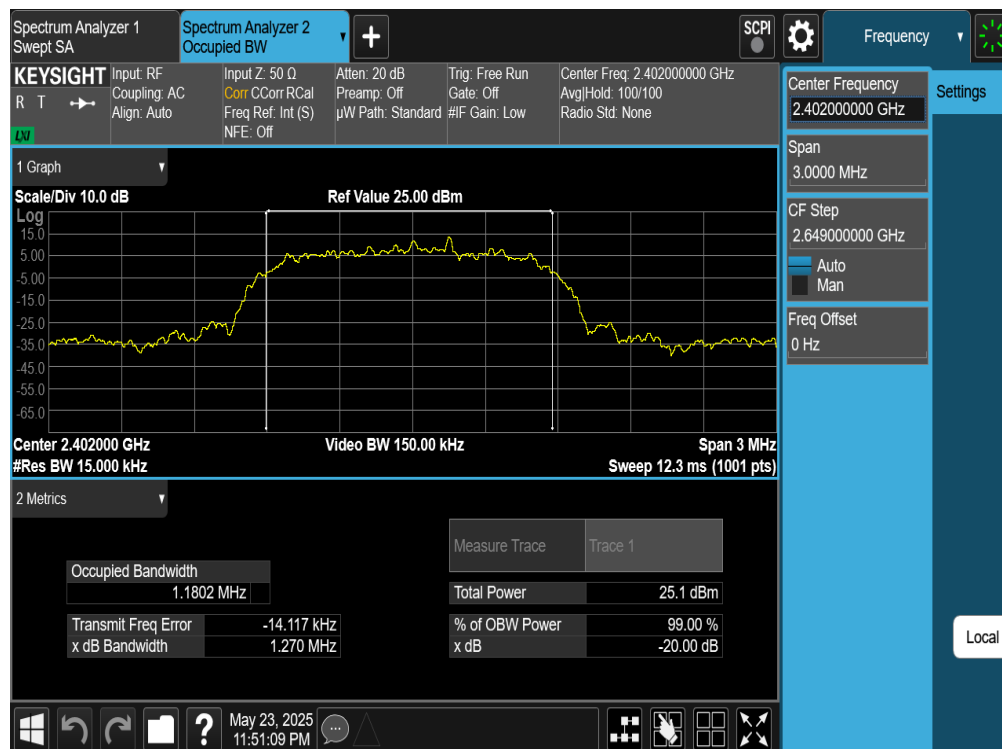
FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170040-09.BCG	Test Dates: 05/12/2025 - 09/02/2025	EUT Type: Tablet Device	Page 17 of 109

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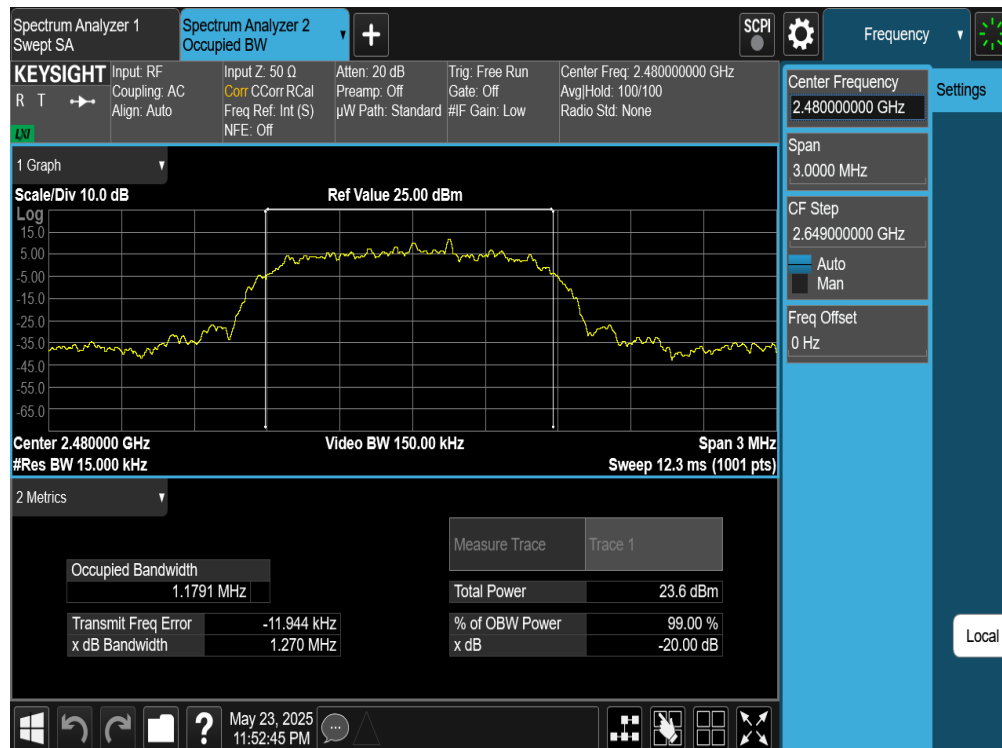
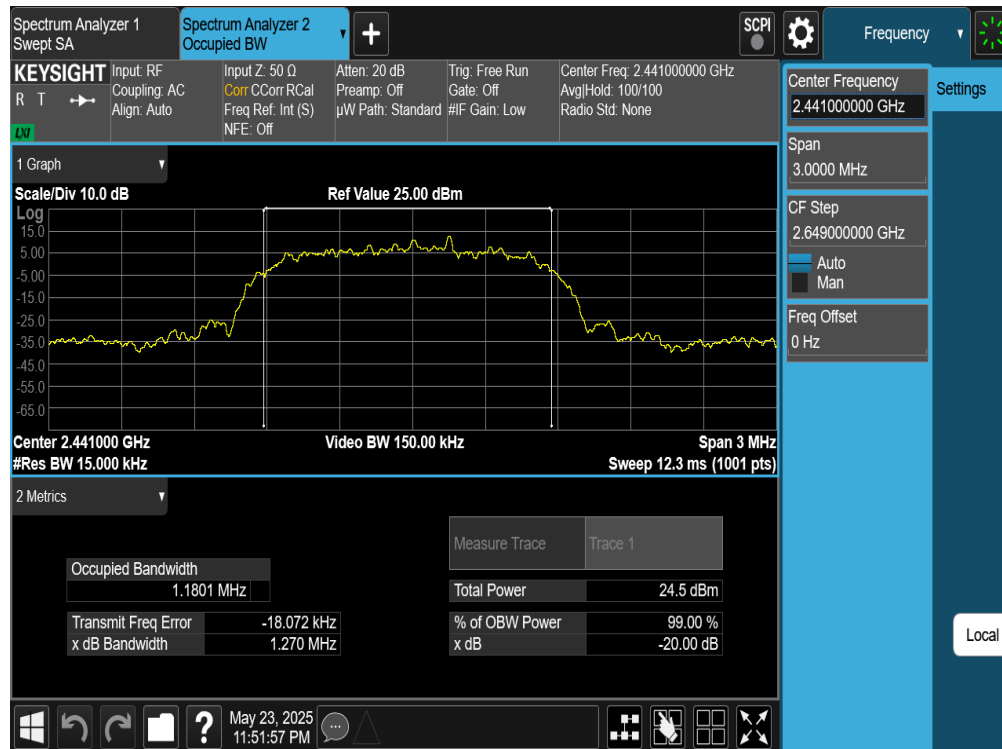


Plot 7-3. 20dB BW and 99% OBW Plot Antenna WF8 (Bluetooth, GFSK, ePA – Ch. 78)



Plot 7-4. 20dB BW and 99% OBW Plot Antenna WF8 (Bluetooth, 8DPSK, ePA – Ch. 0)

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7.2.2 Antenna WF7

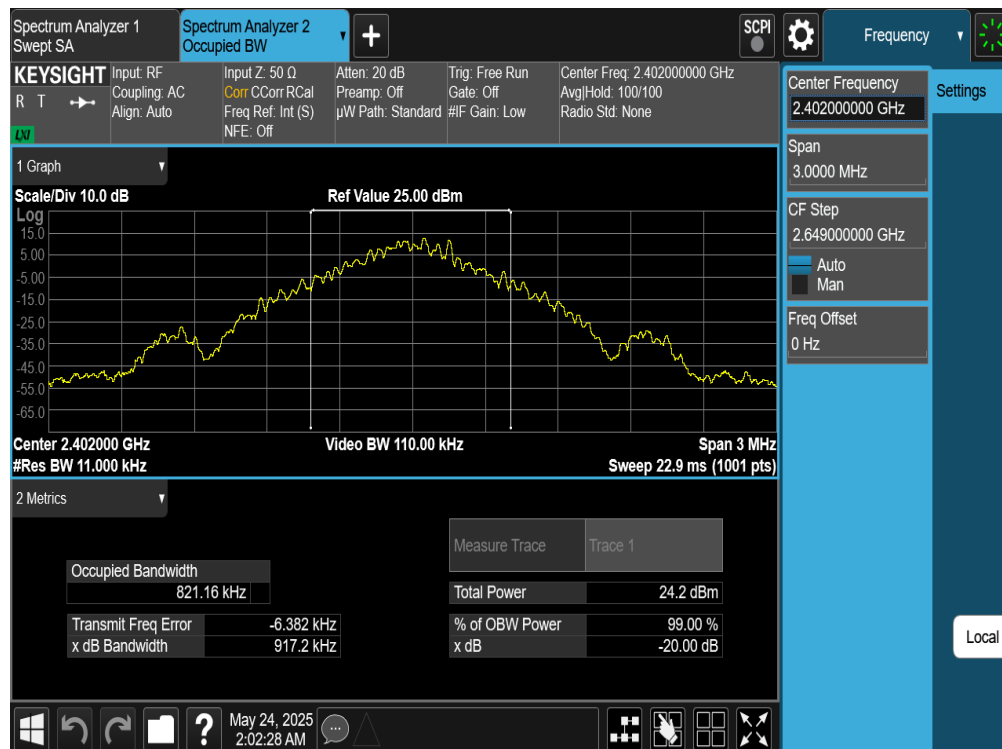
Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Measured 99% Occupied Bandwidth [kHz]	Measured 20dB Bandwidth [kHz]
2402	1.0	GFSK	ePA	0	821.16	917.23
2441	1.0	GFSK	ePA	39	820.31	918.92
2480	1.0	GFSK	ePA	78	820.94	918.09
2402	3.0	8DPSK	ePA	0	1179.30	1270.08
2441	3.0	8DPSK	ePA	39	1180.03	1270.25
2480	3.0	8DPSK	ePA	78	1180.12	1270.84

Table 7-3. 20dB BW and 99% OBW Bandwidth Measurements Antenna WF7

FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-7. 20dB BW and 99% OBW Plot Antenna WF7 (Bluetooth, GFSK, ePA – Ch. 0)

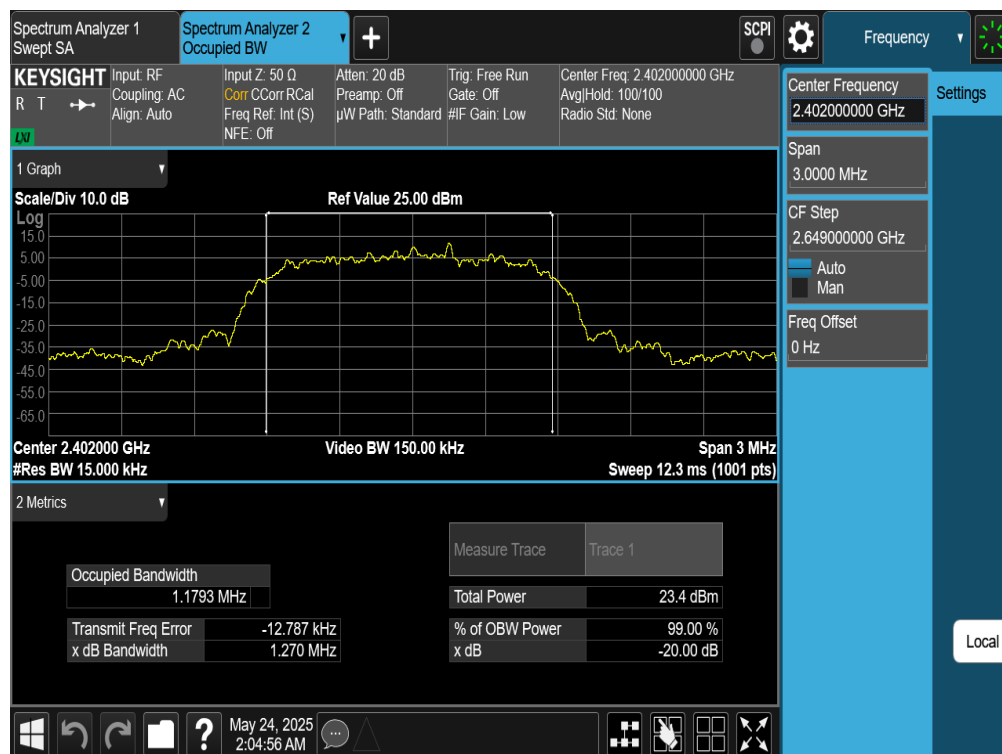
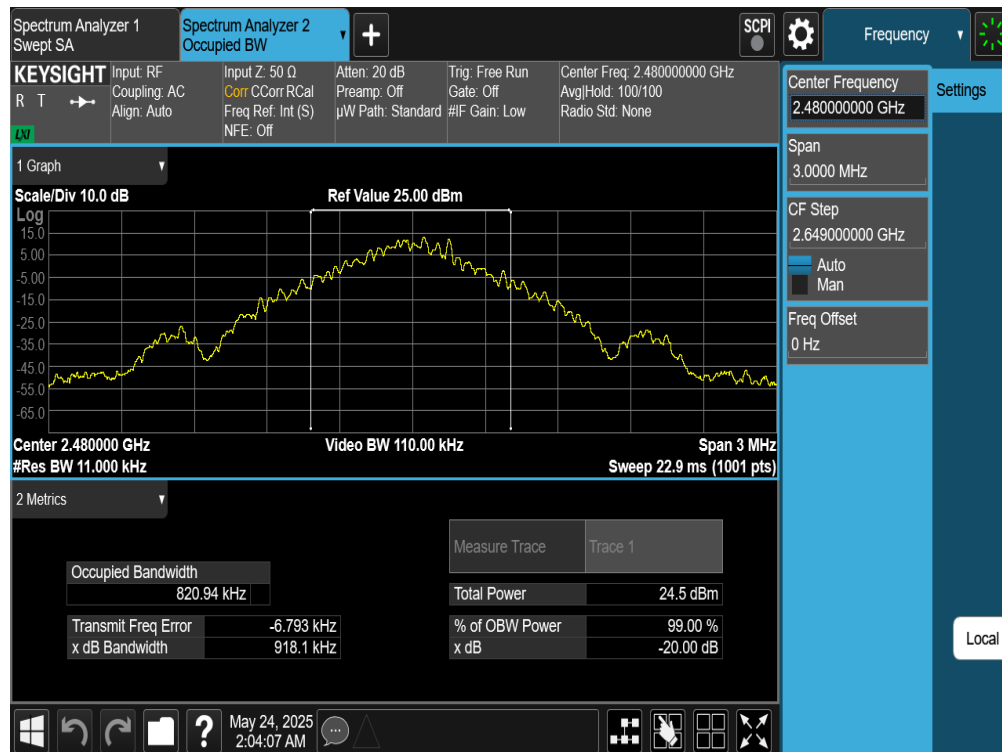


Plot 7-8. 20dB BW and 99% OBW Plot Antenna WF7 (Bluetooth, GFSK, ePA – Ch. 39)

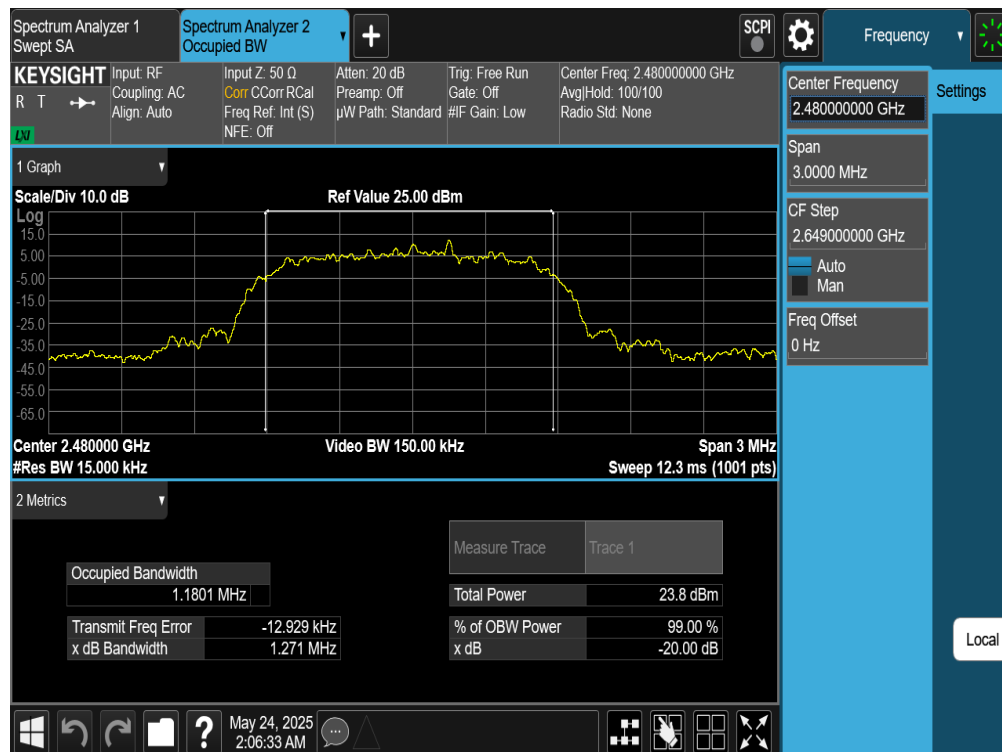
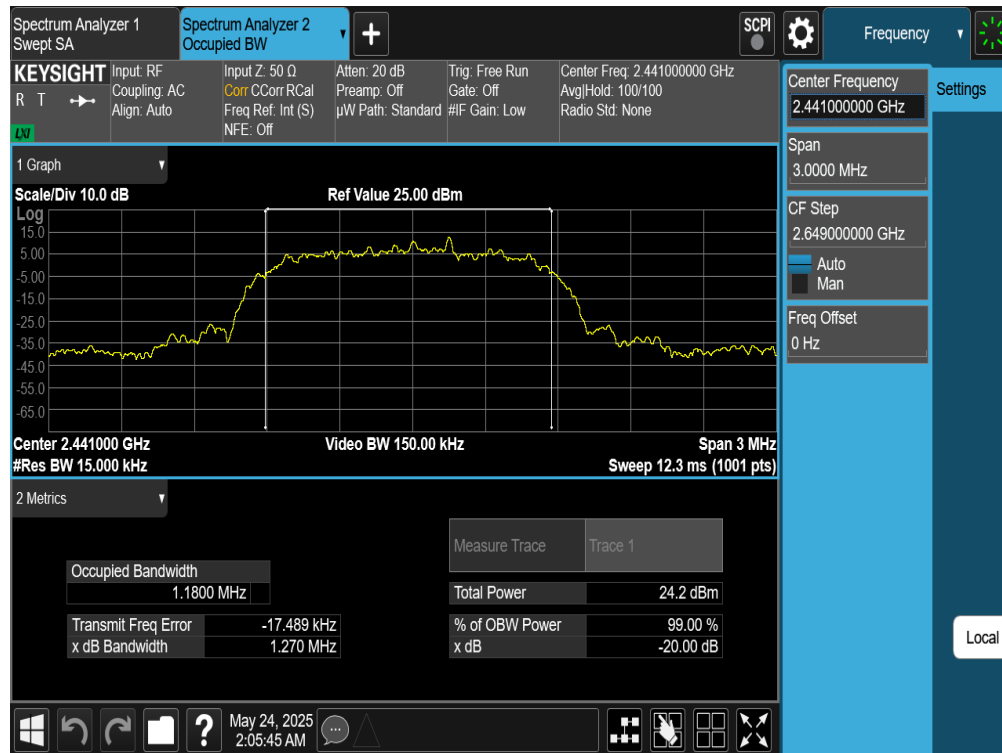
FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.2.3 Antenna WF9

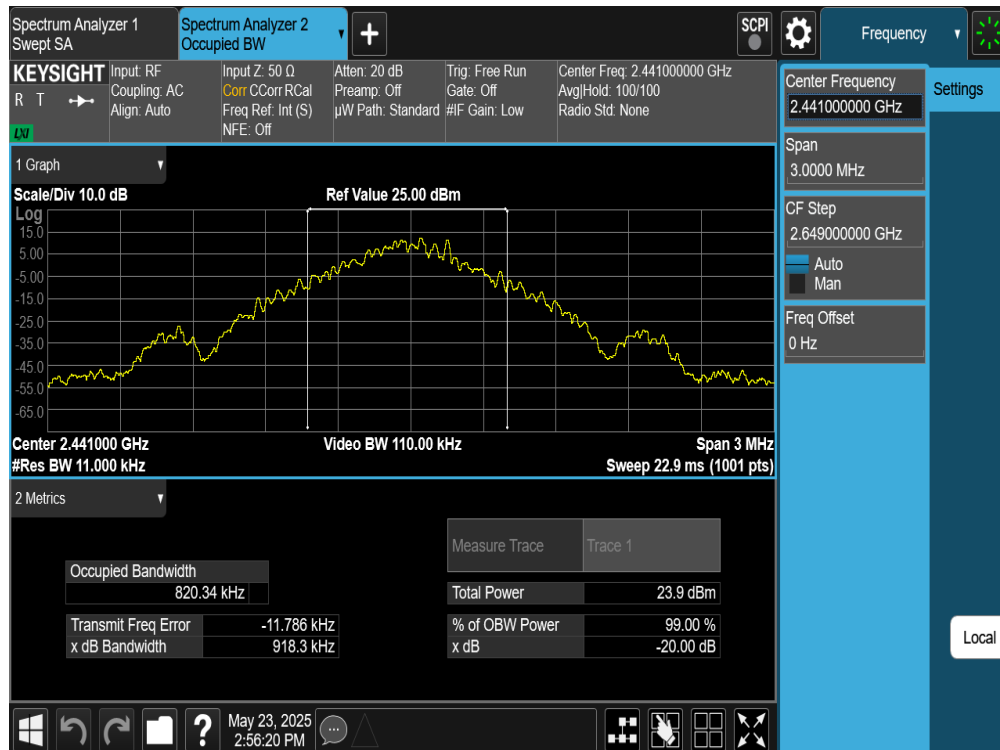
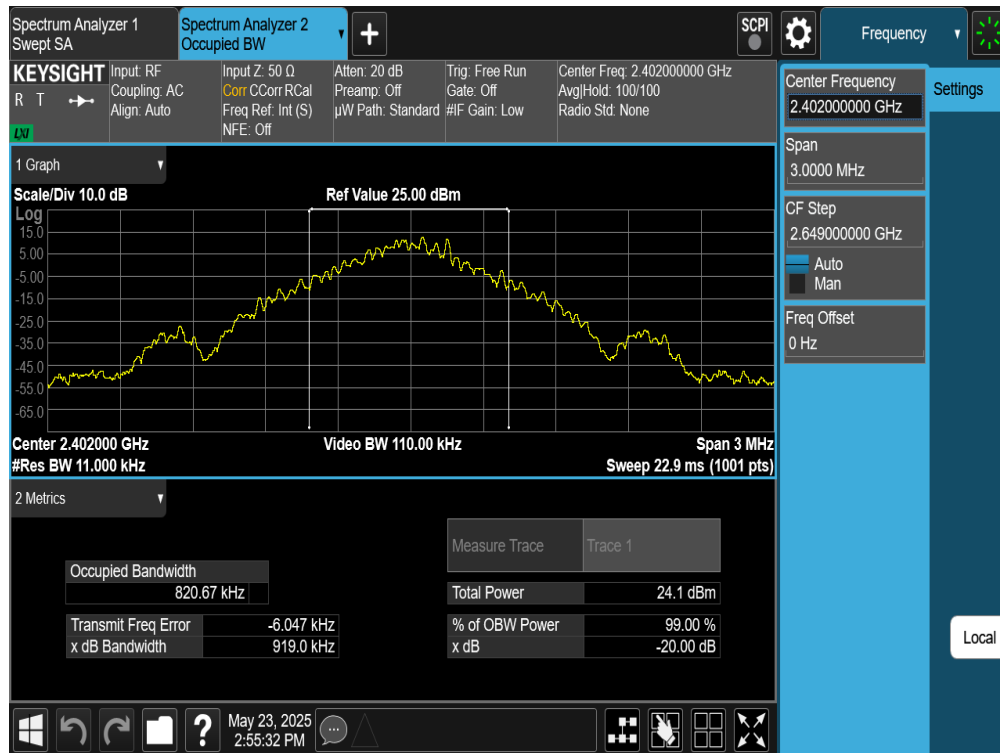
Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Measured 99% Occupied Bandwidth [kHz]	Measured 20dB Bandwidth [kHz]
2402	1.0	GFSK	ePA	0	820.67	918.97
2441	1.0	GFSK	ePA	39	820.34	918.28
2480	1.0	GFSK	ePA	78	822.02	919.64
2402	3.0	8DPSK	ePA	0	1179.60	1270.47
2441	3.0	8DPSK	ePA	39	1180.00	1270.31
2480	3.0	8DPSK	ePA	78	1179.73	1271.37

Table 7-4. 20dB BW and 99% OBW Bandwidth Measurements Antenna WF9

FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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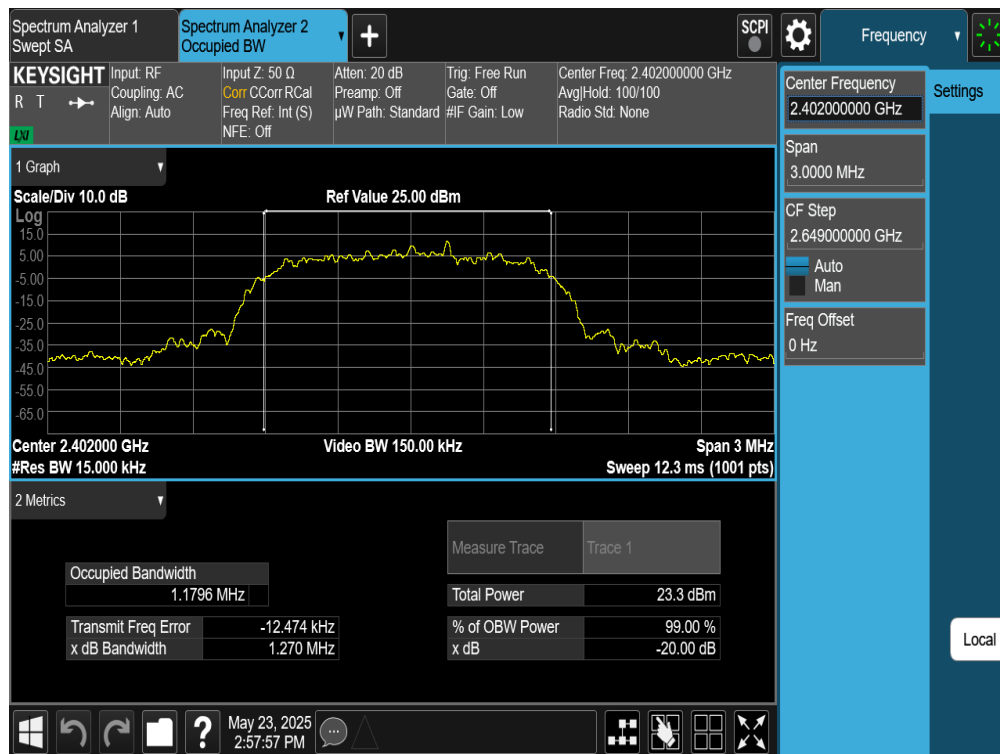
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Plot 7-15. 20dB BW and 99% OBW Plot Antenna WF9 (Bluetooth, GFSK, ePA – Ch. 78)

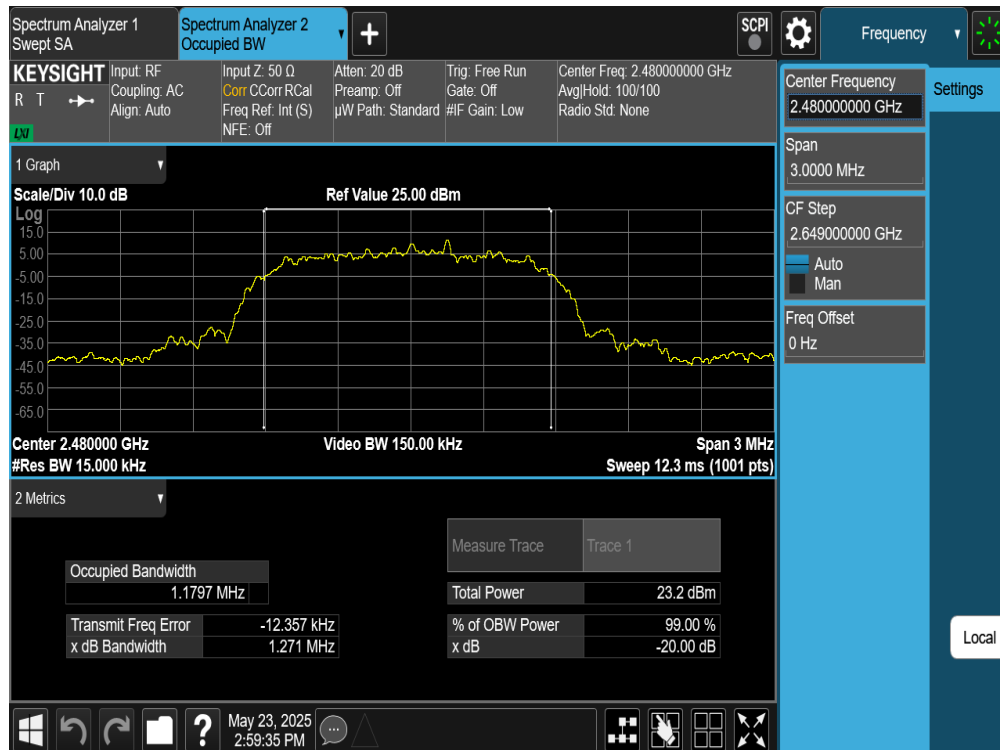
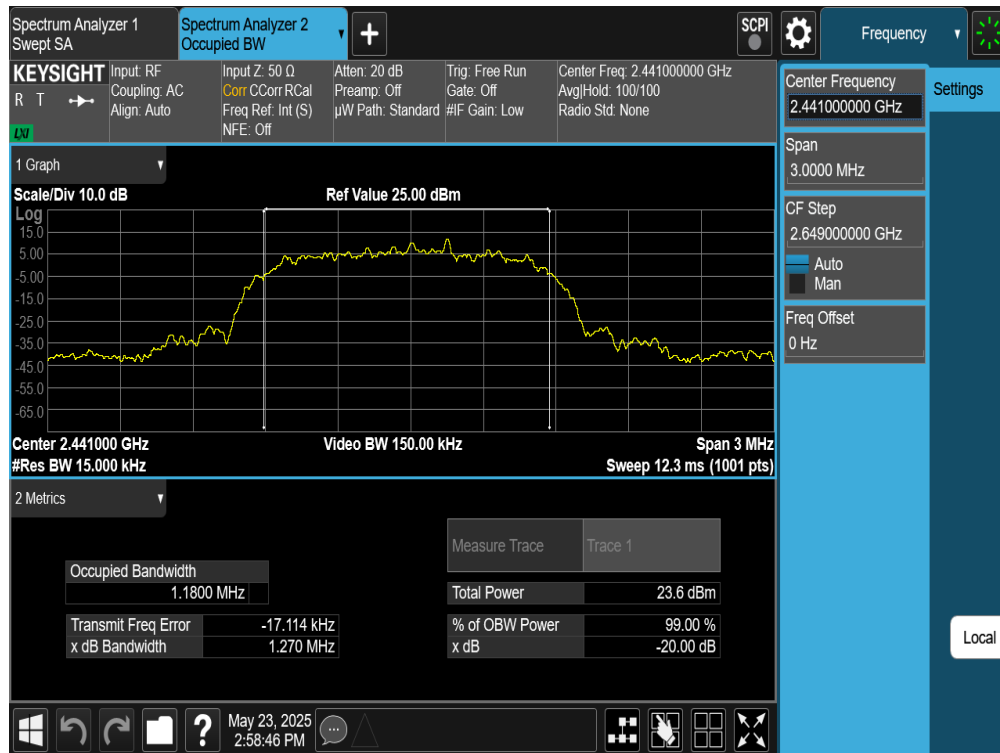


Plot 7-16. 20dB BW and 99% OBW Plot Antenna WF9 (Bluetooth, 8DPSK, ePA – Ch. 0)

FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.3 Output Power Measurement

§15.247 (b)(1); RSS-247 [5.4(b)]

Test Overview and Limits

Measurement is made while the EUT is operating in non-hopping transmission mode. Peak and Average power measurements are performed using a broadband power meter with a pulse sensor.

The maximum peak conducted output power of frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels is 1 watt

The conducted output power limit on paragraph above is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For FHSs operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1.0 W if the hopset uses 75 or more hopping channels. 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

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

ANSI C63.10-2020 – Subclause 14.4 Measure-and-Sum Technique

Test Settings

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 the occupied bandwidth.

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

Note

All supported modulations have been tested and $\pi/4$ -DQPSK was found not to be the worst case modulation so only GFSK and 8DPSK is reported.

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7.3.1 Peak Output Power Measurement

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	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]						
2402	1.0	GFSK	ePA	0	17.27	53.333	30.00	-12.73	2.10	19.37	36.02	-16.65
2441	1.0	GFSK	ePA	39	17.33	54.075	30.00	-12.67	2.10	19.43	36.02	-16.59
2480	1.0	GFSK	ePA	78	17.49	56.105	30.00	-12.51	2.10	19.59	36.02	-16.43
2402	1.0	GFSK	IPA	0	9.39	8.690	30.00	-20.61	2.10	11.49	36.02	-24.53
2441	1.0	GFSK	IPA	39	9.32	8.551	30.00	-20.68	2.10	11.42	36.02	-24.60
2480	1.0	GFSK	IPA	78	9.41	8.730	30.00	-20.59	2.10	11.51	36.02	-24.51
2402	3.0	8DPSK	ePA	0	20.62	115.345	30.00	-9.38	2.10	22.72	36.02	-13.30
2441	3.0	8DPSK	ePA	39	20.49	111.944	30.00	-9.51	2.10	22.59	36.02	-13.43
2480	3.0	8DPSK	ePA	78	20.24	105.682	30.00	-9.76	2.10	22.34	36.02	-13.68
2402	3.0	8DPSK	IPA	0	9.22	8.356	30.00	-20.78	2.10	11.32	36.02	-24.70
2441	3.0	8DPSK	IPA	39	9.10	8.128	30.00	-20.90	2.10	11.20	36.02	-24.82
2480	3.0	8DPSK	IPA	78	8.93	7.816	30.00	-21.07	2.10	11.03	36.02	-24.99

Table 7-5. Peak Conducted Output Power Measurements Antenna WF8

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	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]						
2402	1.0	GFSK	ePA	0	17.96	62.517	30.00	-12.04	1.90	19.86	36.02	-16.16
2441	1.0	GFSK	ePA	39	17.61	57.677	30.00	-12.39	1.90	19.51	36.02	-16.51
2480	1.0	GFSK	ePA	78	17.99	62.951	30.00	-12.01	1.90	19.89	36.02	-16.13
2402	1.0	GFSK	IPA	0	8.60	7.244	30.00	-21.40	1.90	10.50	36.02	-25.52
2441	1.0	GFSK	IPA	39	9.08	8.091	30.00	-20.92	1.90	10.98	36.02	-25.04
2480	1.0	GFSK	IPA	78	8.46	7.015	30.00	-21.54	1.90	10.36	36.02	-25.66
2402	3.0	8DPSK	ePA	0	19.85	96.605	30.00	-10.15	1.90	21.75	36.02	-14.27
2441	3.0	8DPSK	ePA	39	20.44	110.662	30.00	-9.56	1.90	22.34	36.02	-13.68
2480	3.0	8DPSK	ePA	78	19.94	98.628	30.00	-10.06	1.90	21.84	36.02	-14.18
2402	3.0	8DPSK	IPA	0	8.84	7.656	30.00	-21.16	1.90	10.74	36.02	-25.28
2441	3.0	8DPSK	IPA	39	9.53	8.974	30.00	-20.47	1.90	11.43	36.02	-24.59
2480	3.0	8DPSK	IPA	78	9.02	7.980	30.00	-20.98	1.90	10.92	36.02	-25.10

Table 7-6. Peak Conducted Output Power Measurements Antenna WF7

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	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]						
2402	1.0	GFSK	ePA	0	17.76	59.704	30.00	-12.24	0.50	18.26	36.02	-17.76
2441	1.0	GFSK	ePA	39	17.53	56.624	30.00	-12.47	0.50	18.03	36.02	-17.99
2480	1.0	GFSK	ePA	78	17.62	57.810	30.00	-12.38	0.50	18.12	36.02	-17.90
2402	1.0	GFSK	IPA	0	8.76	7.516	30.00	-21.24	0.50	9.26	36.02	-26.76
2441	1.0	GFSK	IPA	39	8.94	7.834	30.00	-21.06	0.50	9.44	36.02	-26.58
2480	1.0	GFSK	IPA	78	8.82	7.621	30.00	-21.18	0.50	9.32	36.02	-26.70
2402	3.0	8DPSK	ePA	0	19.57	90.573	30.00	-10.43	0.50	20.07	36.02	-15.95
2441	3.0	8DPSK	ePA	39	19.90	97.724	30.00	-10.10	0.50	20.40	36.02	-15.62
2480	3.0	8DPSK	ePA	78	19.42	87.498	30.00	-10.58	0.50	19.92	36.02	-16.10
2402	3.0	8DPSK	IPA	0	8.76	7.516	30.00	-21.24	0.50	9.26	36.02	-26.76
2441	3.0	8DPSK	IPA	39	8.91	7.780	30.00	-21.09	0.50	9.41	36.02	-26.61
2480	3.0	8DPSK	IPA	78	8.79	7.568	30.00	-21.21	0.50	9.29	36.02	-26.73

Table 7-7. Peak Conducted Output Power Measurements Antenna WF9

FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170040-09.BCG	Test Dates: 05/12/2025 - 09/02/2025	EUT Type: Tablet Device	Page 29 of 109

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Peak Conducted Power						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	ERP [dBm]	ERP Limit [dBm]	ERP Margin [dB]
					Antenna WF8		Antenna WF7		Summed							
					[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]						
2402	1.0	GFSK	ePA	0	17.57	57.148	17.33	54.075	20.46	111.173	30.00	-9.54	5.01	25.47	36.02	-10.55
2441	1.0	GFSK	ePA	39	17.46	55.719	17.50	56.234	20.49	111.944	30.00	-9.51	5.01	25.50	36.02	-10.52
2480	1.0	GFSK	ePA	78	17.22	52.723	17.95	62.373	20.61	115.080	30.00	-9.39	5.01	25.62	36.02	-10.40
2402	1.0	GFSK	iPA	0	9.13	8.185	8.23	6.853	11.71	14.825	30.00	-18.29	5.01	16.72	36.02	-19.30
2441	1.0	GFSK	iPA	39	9.26	8.433	8.85	7.674	12.07	16.106	30.00	-17.93	5.01	17.08	36.02	-18.94
2480	1.0	GFSK	iPA	78	9.38	8.670	8.83	7.638	12.12	16.293	30.00	-17.88	5.01	17.13	36.02	-18.89
2402	3.0	8DPSK	ePA	0	20.98	125.314	20.26	106.170	23.65	231.739	30.00	-6.35	5.01	28.66	36.02	-7.36
2441	3.0	8DPSK	ePA	39	20.87	122.180	19.72	93.756	23.34	215.774	30.00	-6.66	5.01	28.35	36.02	-7.67
2480	3.0	8DPSK	ePA	78	20.68	116.950	19.85	96.605	23.30	213.796	30.00	-6.70	5.01	28.31	36.02	-7.71
2402	3.0	8DPSK	iPA	0	9.47	8.851	8.47	7.031	12.01	15.885	30.00	-17.99	5.01	17.02	36.02	-19.00
2441	3.0	8DPSK	iPA	39	8.98	7.907	8.56	7.178	11.79	15.101	30.00	-18.21	5.01	16.80	36.02	-19.22
2480	3.0	8DPSK	iPA	78	9.36	8.630	8.92	7.798	12.16	16.444	30.00	-17.84	5.01	17.17	36.02	-18.85

Table 7-8. Peak Conducted Output Power Measurements TxBF Primary

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Peak Conducted Power						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	ERP [dBm]	ERP Limit [dBm]	ERP Margin [dB]
					Antenna WF8		Antenna WF9		Summed							
					[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]						
2402	1.0	GFSK	ePA	0	17.57	57.148	18.24	66.681	20.93	123.880	30.00	-9.07	4.35	25.28	36.02	-10.75
2441	1.0	GFSK	ePA	39	17.46	55.719	17.93	62.087	20.71	117.761	30.00	-9.29	4.35	25.06	36.02	-10.96
2480	1.0	GFSK	ePA	78	17.22	52.723	18.49	70.632	20.91	123.310	30.00	-9.09	4.35	25.26	36.02	-10.76
2402	1.0	GFSK	iPA	0	9.13	8.185	9.31	8.531	12.23	16.711	30.00	-17.77	4.35	16.58	36.02	-19.44
2441	1.0	GFSK	iPA	39	9.06	8.054	8.86	7.691	11.97	15.740	30.00	-18.03	4.35	16.32	36.02	-19.70
2480	1.0	GFSK	iPA	78	9.38	8.670	8.83	7.638	12.12	16.293	30.00	-17.88	4.35	16.47	36.02	-19.55
2402	3.0	8DPSK	ePA	0	20.98	125.314	20.01	100.231	23.53	225.424	30.00	-6.47	4.35	27.88	36.02	-8.14
2441	3.0	8DPSK	ePA	39	20.87	122.180	19.70	93.325	23.33	215.278	30.00	-6.67	4.35	27.68	36.02	-8.34
2480	3.0	8DPSK	ePA	78	20.68	116.950	19.82	95.940	23.28	212.814	30.00	-6.72	4.35	27.63	36.02	-8.39
2402	3.0	8DPSK	iPA	0	9.47	8.851	9.16	8.241	12.33	17.100	30.00	-17.67	4.35	16.68	36.02	-19.35
2441	3.0	8DPSK	iPA	39	8.98	7.907	9.31	8.531	12.16	16.444	30.00	-17.84	4.35	16.51	36.02	-19.52
2480	3.0	8DPSK	iPA	78	9.36	8.630	8.21	6.622	11.83	15.241	30.00	-18.17	4.35	16.18	36.02	-19.84

Table 7-9. Peak Conducted Output Power Measurements TxBF Diversity

FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.3.2 Average Output Power Measurement

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power		Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	EIRP Margin [dB]
					[dBm]	[mW]						
2402	1.0	GFSK	ePA	0	17.17	52.119	30.00	-12.83	2.10	19.27	36.02	-16.75
2441	1.0	GFSK	ePA	39	17.20	52.481	30.00	-12.80	2.10	19.30	36.02	-16.72
2480	1.0	GFSK	ePA	78	17.39	54.828	30.00	-12.62	2.10	19.49	36.02	-16.54
2402	1.0	GFSK	IPA	0	9.31	8.531	30.00	-20.69	2.10	11.41	36.02	-24.61
2441	1.0	GFSK	IPA	39	9.23	8.375	30.00	-20.77	2.10	11.33	36.02	-24.69
2480	1.0	GFSK	IPA	78	9.19	8.299	30.00	-20.81	2.10	11.29	36.02	-24.73
2402	3.0	8DPSK	ePA	0	15.97	39.537	30.00	-14.03	2.10	18.07	36.02	-17.95
2441	3.0	8DPSK	ePA	39	16.23	41.976	30.00	-13.77	2.10	18.33	36.02	-17.69
2480	3.0	8DPSK	ePA	78	16.01	39.902	30.00	-13.99	2.10	18.11	36.02	-17.91
2402	3.0	8DPSK	IPA	0	6.39	4.355	30.00	-23.61	2.10	8.49	36.02	-27.53
2441	3.0	8DPSK	IPA	39	6.24	4.207	30.00	-23.76	2.10	8.34	36.02	-27.68
2480	3.0	8DPSK	IPA	78	6.13	4.102	30.00	-23.87	2.10	8.23	36.02	-27.79

Table 7-10. Average Conducted Output Power Measurements Antenna WF8

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power		Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	EIRP Margin [dB]
					[dBm]	[mW]						
2402	1.0	GFSK	ePA	0	17.40	54.954	30.00	-12.60	1.90	19.30	36.02	-16.72
2441	1.0	GFSK	ePA	39	17.29	53.580	30.00	-12.71	1.90	19.19	36.02	-16.83
2480	1.0	GFSK	ePA	78	17.50	56.234	30.00	-12.50	1.90	19.40	36.02	-16.62
2402	1.0	GFSK	IPA	0	8.73	7.464	30.00	-21.27	1.90	10.63	36.02	-25.39
2441	1.0	GFSK	IPA	39	8.96	7.870	30.00	-21.05	1.90	10.86	36.02	-25.17
2480	1.0	GFSK	IPA	78	8.61	7.261	30.00	-21.40	1.90	10.51	36.02	-25.52
2402	3.0	8DPSK	ePA	0	16.14	41.115	30.00	-13.86	1.90	18.04	36.02	-17.98
2441	3.0	8DPSK	ePA	39	16.47	44.361	30.00	-13.53	1.90	18.37	36.02	-17.65
2480	3.0	8DPSK	ePA	78	16.48	44.463	30.00	-13.52	1.90	18.38	36.02	-17.64
2402	3.0	8DPSK	IPA	0	5.99	3.972	30.00	-24.01	1.90	7.89	36.02	-28.13
2441	3.0	8DPSK	IPA	39	5.70	3.715	30.00	-24.31	1.90	7.60	36.02	-28.43
2480	3.0	8DPSK	IPA	78	5.32	3.404	30.00	-24.68	1.90	7.22	36.02	-28.80

Table 7-11. Average Conducted Output Power Measurements Antenna WF7

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power		Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	EIRP Margin [dB]
					[dBm]	[mW]						
2402	1.0	GFSK	ePA	0	17.17	52.119	30.00	-12.83	0.50	17.67	36.02	-18.35
2441	1.0	GFSK	ePA	39	17.47	55.847	30.00	-12.53	0.50	17.97	36.02	-18.05
2480	1.0	GFSK	ePA	78	17.49	56.105	30.00	-12.51	0.50	17.99	36.02	-18.03
2402	1.0	GFSK	IPA	0	8.18	6.577	30.00	-21.82	0.50	8.68	36.02	-27.34
2441	1.0	GFSK	IPA	39	8.67	7.362	30.00	-21.33	0.50	9.17	36.02	-26.85
2480	1.0	GFSK	IPA	78	8.51	7.096	30.00	-21.50	0.50	9.01	36.02	-27.02
2402	3.0	8DPSK	ePA	0	16.12	40.926	30.00	-13.88	0.50	16.62	36.02	-19.40
2441	3.0	8DPSK	ePA	39	16.41	43.752	30.00	-13.59	0.50	16.91	36.02	-19.11
2480	3.0	8DPSK	ePA	78	16.46	44.259	30.00	-13.54	0.50	16.96	36.02	-19.06
2402	3.0	8DPSK	IPA	0	5.79	3.793	30.00	-24.21	0.50	6.29	36.02	-29.73
2441	3.0	8DPSK	IPA	39	5.11	3.243	30.00	-24.89	0.50	5.61	36.02	-30.41
2480	3.0	8DPSK	IPA	78	5.96	3.945	30.00	-24.04	0.50	6.46	36.02	-29.56

Table 7-12. Average Conducted Output Power Measurements Antenna WF9

FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Average Conducted Power						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	ERP [dBm]	ERP Limit [dBm]	ERP Margin [dB]
					Antenna WF8		Antenna WF7		Summed							
					[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]						
2402	1.0	GFSK	ePA	0	16.97	49.774	16.83	48.195	19.91	97.949	30.00	-10.09	5.01	24.92	36.02	-11.10
2441	1.0	GFSK	ePA	39	16.60	45.709	16.52	44.875	19.57	90.573	30.00	-10.43	5.01	24.58	36.02	-11.44
2480	1.0	GFSK	ePA	78	16.56	45.290	16.58	45.499	19.58	90.782	30.00	-10.42	5.01	24.59	36.02	-11.43
2402	1.0	GFSK	iPA	0	8.94	7.834	8.18	6.577	11.59	14.421	30.00	-18.41	5.01	16.60	36.02	-19.42
2441	1.0	GFSK	iPA	39	9.17	8.260	8.78	7.551	11.99	15.812	30.00	-18.01	5.01	17.00	36.02	-19.02
2480	1.0	GFSK	iPA	78	9.22	8.356	8.88	7.727	12.06	16.069	30.00	-17.94	5.01	17.07	36.02	-18.95
2402	3.0	8DPSK	ePA	0	13.46	22.182	13.20	20.893	16.34	43.053	30.00	-13.66	5.01	21.35	36.02	-14.67
2441	3.0	8DPSK	ePA	39	13.25	21.135	13.01	19.999	16.14	41.115	30.00	-13.86	5.01	21.15	36.02	-14.87
2480	3.0	8DPSK	ePA	78	13.08	20.324	13.50	22.387	16.31	42.756	30.00	-13.69	5.01	21.32	36.02	-14.70
2402	3.0	8DPSK	iPA	0	6.40	4.365	5.65	3.673	9.05	8.035	30.00	-20.95	5.01	14.06	36.02	-21.96
2441	3.0	8DPSK	iPA	39	6.15	4.121	5.48	3.532	8.84	7.656	30.00	-21.16	5.01	13.85	36.02	-22.17
2480	3.0	8DPSK	iPA	78	6.45	4.416	5.92	3.908	9.20	8.318	30.00	-20.80	5.01	14.21	36.02	-21.81

Table 7-13. Average Conducted Output Power Measurements TxBF Primary

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Average Conducted Power						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	ERP [dBm]	ERP Limit [dBm]	ERP Margin [dB]
					Antenna WF8		Antenna WF9		Summed							
					[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]						
2402	1.0	GFSK	ePA	0	16.97	49.774	16.71	46.881	19.85	96.605	30.00	-10.15	4.35	24.20	36.02	-11.82
2441	1.0	GFSK	ePA	39	16.60	45.709	16.54	45.082	19.58	90.792	30.00	-10.42	4.35	23.93	36.02	-12.09
2480	1.0	GFSK	ePA	78	16.56	45.290	16.54	45.082	19.56	90.365	30.00	-10.44	4.35	23.91	36.02	-12.11
2402	1.0	GFSK	iPA	0	8.94	7.834	8.54	7.145	11.75	14.962	30.00	-18.25	4.35	16.10	36.02	-19.92
2441	1.0	GFSK	iPA	39	9.17	8.260	8.02	6.339	11.64	14.588	30.00	-18.36	4.35	15.99	36.02	-20.03
2480	1.0	GFSK	iPA	78	9.22	8.356	8.58	7.211	11.92	15.560	30.00	-18.08	4.35	16.27	36.02	-19.75
2402	3.0	8DPSK	ePA	0	13.46	22.182	13.21	20.941	16.35	43.152	30.00	-13.65	4.35	20.69	36.02	-15.33
2441	3.0	8DPSK	ePA	39	13.25	21.135	13.01	19.999	16.14	41.115	30.00	-13.86	4.35	20.49	36.02	-15.53
2480	3.0	8DPSK	ePA	78	13.08	20.324	13.05	20.184	16.08	40.551	30.00	-13.92	4.35	20.42	36.02	-15.60
2402	3.0	8DPSK	iPA	0	6.40	4.365	5.65	3.673	9.05	8.035	30.00	-20.95	4.35	13.40	36.02	-22.62
2441	3.0	8DPSK	iPA	39	6.15	4.121	5.79	3.793	8.98	7.907	30.00	-21.02	4.35	13.33	36.02	-22.69
2480	3.0	8DPSK	iPA	78	6.45	4.416	5.35	3.428	8.95	7.852	30.00	-21.05	4.35	13.29	36.02	-22.73

Table 7-14. Average Conducted Output Power Measurements TxBF Diversity

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Note:

Per ANSI C63.10-2020 and KDB 662911 D01 v02r01 Section E)1), the conducted powers at Antenna WF8 and Antenna WF7 were first measured separately during TxBF transmission as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Per ANSI C63.10-2020 Subclause 14.6.3, the directional gain is calculated using the following formula, where G_N is the gain of the nth antenna and N_{ANT} , the total number of antennas used.

$$\text{Directional gain} = 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}] \text{ dBi}$$

Sample TxBF Calculation:

At 2402MHz the average conducted output power was measured to be 16.97 dBm for Antenna WF8 and 16.83 dBm for Antenna WF7.

$$\text{Antenna WF8} + \text{Antenna WF7} = \text{TxBF}$$

$$(16.97 \text{ dBm} + 16.83 \text{ dBm}) = (49.774 \text{ mW} + 48.195 \text{ mW}) = 97.968 \text{ mW} = 19.91 \text{ dBm}$$

Sample e.i.r.p. Calculation:

At 2402MHz, the average conducted output power was calculated to be 19.91 dBm with antenna gain of 5.01 dBi.

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

$$19.91 \text{ dBm} + 5.01 \text{ dBi} = 24.92 \text{ dBm}$$

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7.4 Conducted Authorized Band Edge

§15.247 (d); RSS-247 [5.5]

Test Overview and Limits

EUT operates in hopping and non-hopping transmission mode. Measurement is taken at the highest point located outside of the emission bandwidth. **The maximum permissible out-of-band emission level is 20 dBc.**

Test Procedure Used

ANSI C63.10-2020 – Section 6.10.4

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 = 300kHz
5. Detector = Peak
6. Number of sweep points $\geq 2 \times \text{Span/RBW}$
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 7-3. Test Instrument & Measurement Setup

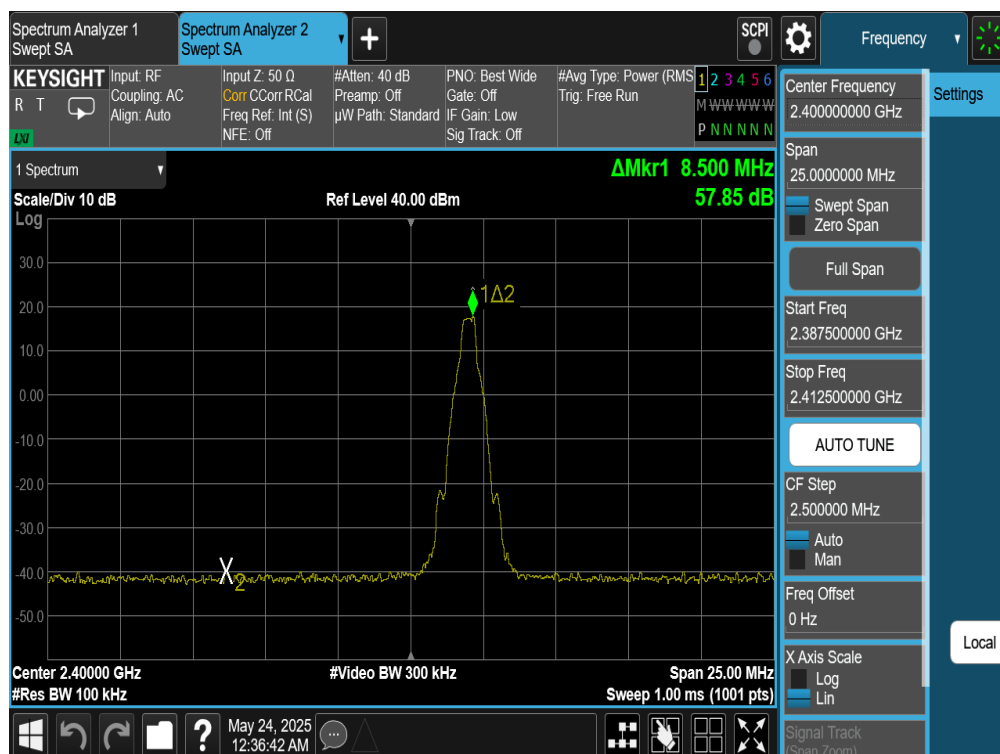
Test Notes

1. Out of band conducted spurious emissions at the band edge were investigated for all data rates in hopping and non-hopping modes. The worst case emissions were found with the EUT transmitting at 3 Mbps. Band edge emissions were also investigated with the EUT transmitting in all data rates. Plots of the worst case emissions are shown below.
2. All supported modulation, antenna (including TxBF mode) and power schemes have been tested on the unit and only worst case configuration is reported.

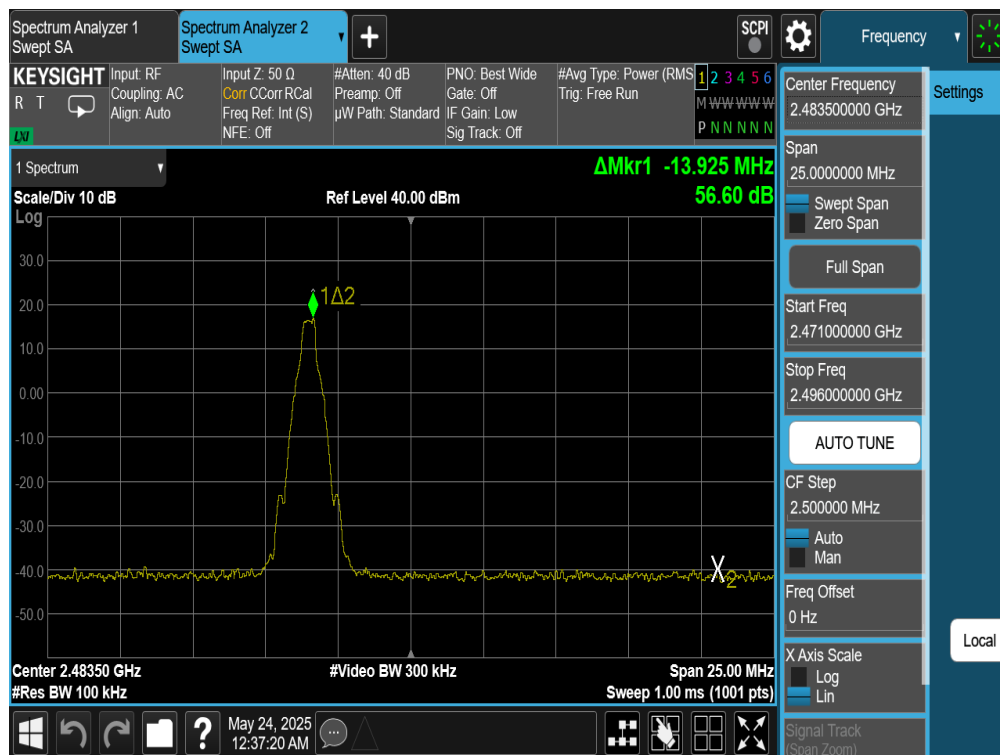
FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.4.1 Antenna WF8



Plot 7-19. Band Edge Plot Antenna WF8 (Bluetooth with Hopping Disabled, GFSK, ePA – Ch. 0)

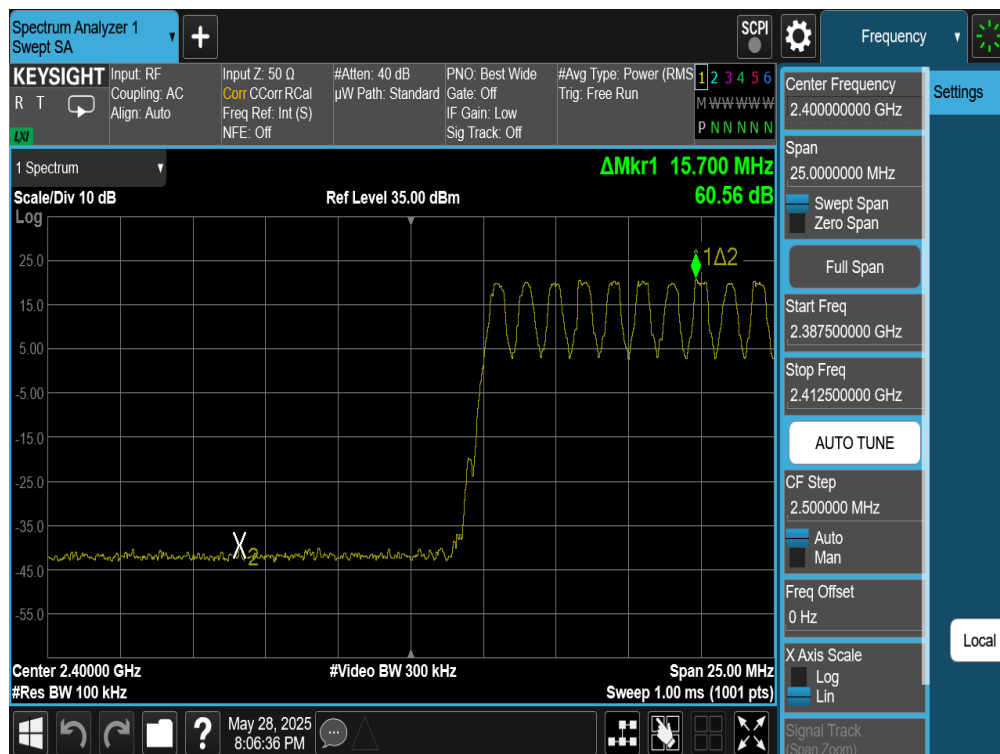


Plot 7-20. Band Edge Plot Antenna WF8 (Bluetooth with Hopping Disabled, GFSK, ePA – Ch. 78)

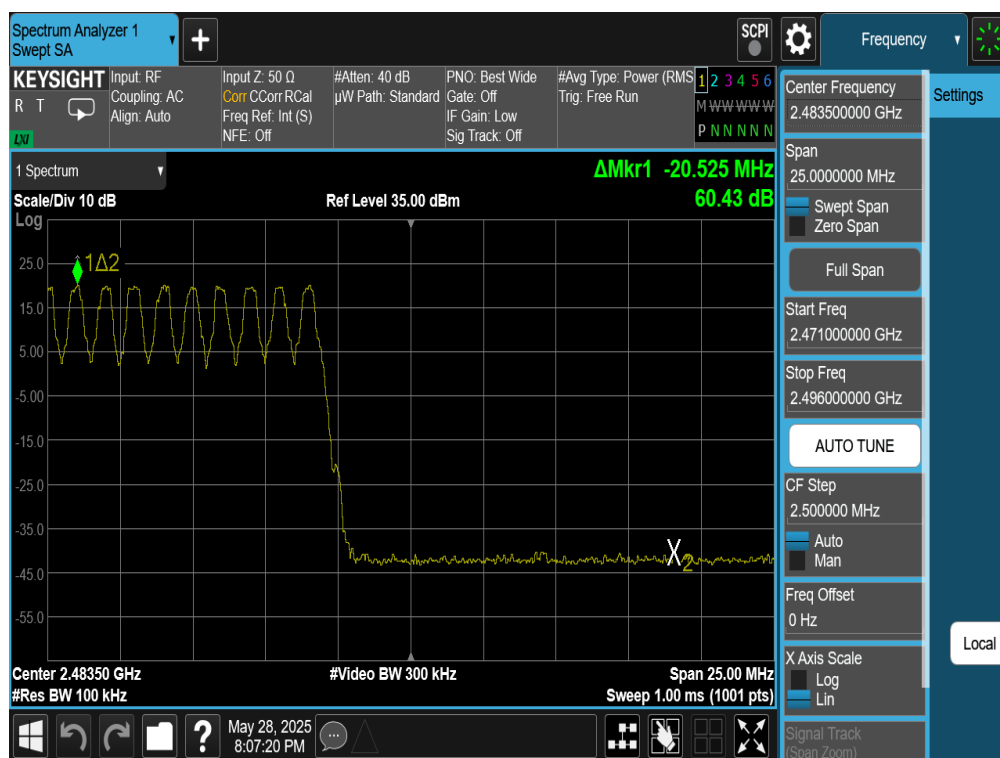
FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170040-09.BCG	Test Dates: 05/12/2025 - 09/02/2025	EUT Type: Tablet Device	Page 35 of 109

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Plot 7-21. Band Edge Plot Antenna WF8 (Bluetooth with Hopping Enabled, GFSK, ePA)

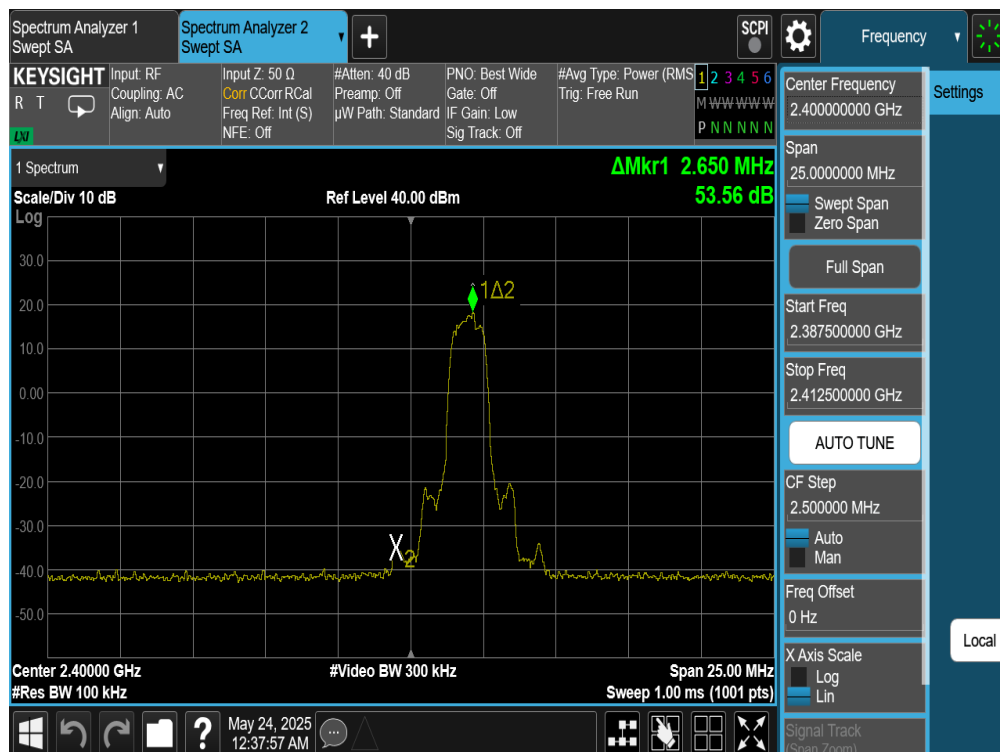


Plot 7-22. Band Edge Plot Antenna WF8 (Bluetooth with Hopping Enabled, GFSK, ePA)

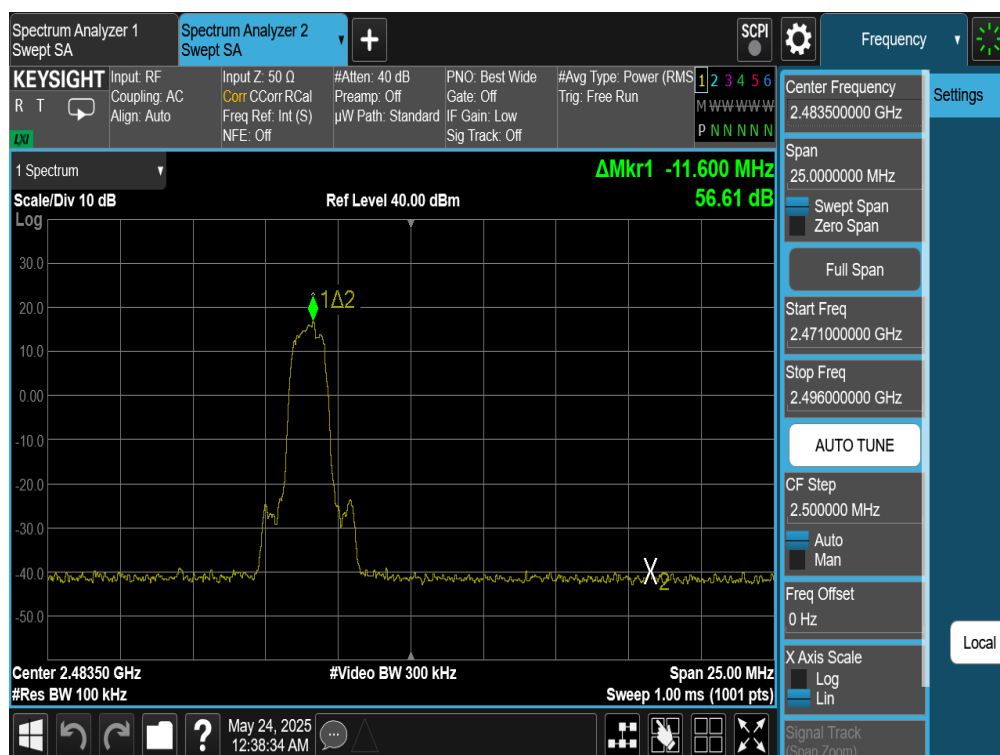
FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-23. Band Edge Plot Antenna WF8 (Bluetooth with Hopping Disabled, 8DPSK, ePA – Ch. 0)

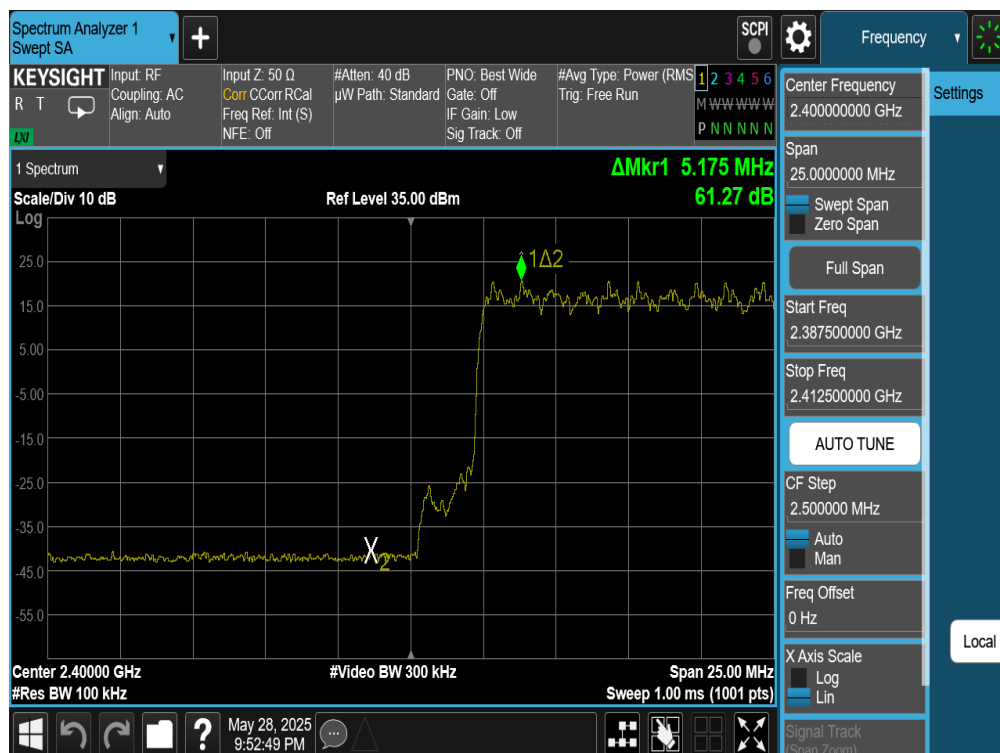


Plot 7-24. Band Edge Plot Antenna WF8 (Bluetooth with Hopping Disabled, 8DPSK, ePA – Ch. 78)

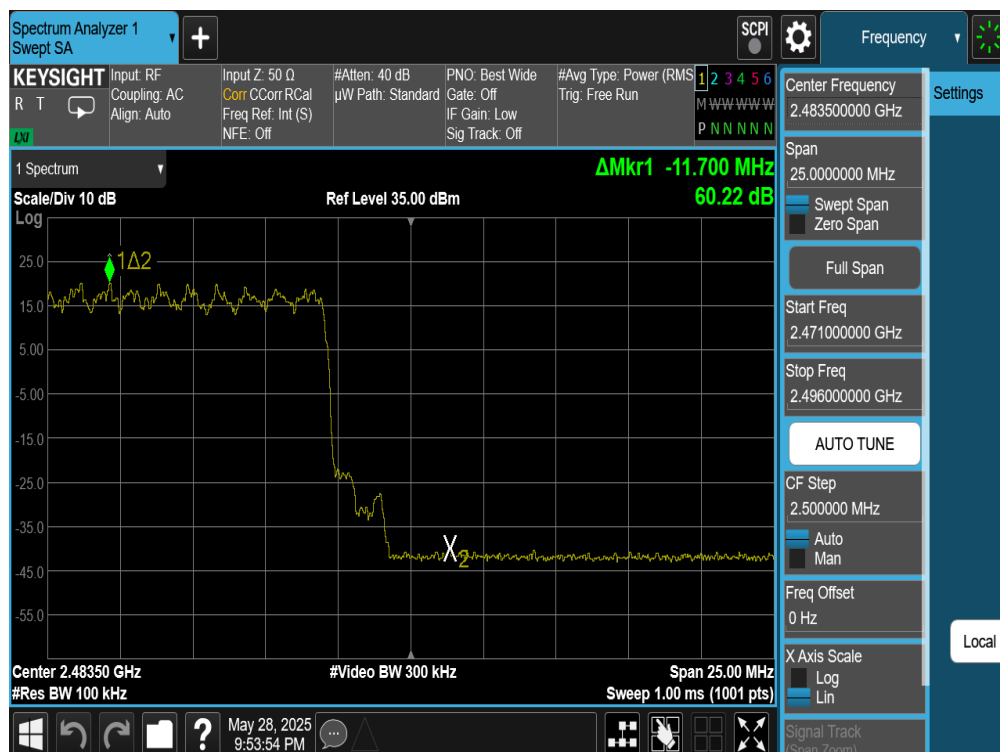
FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170040-09.BCG	Test Dates: 05/12/2025 - 09/02/2025	EUT Type: Tablet Device	Page 37 of 109

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Plot 7-25. Band Edge Plot Antenna WF8 (Bluetooth with Hopping Enabled, 8DPSK, ePA)



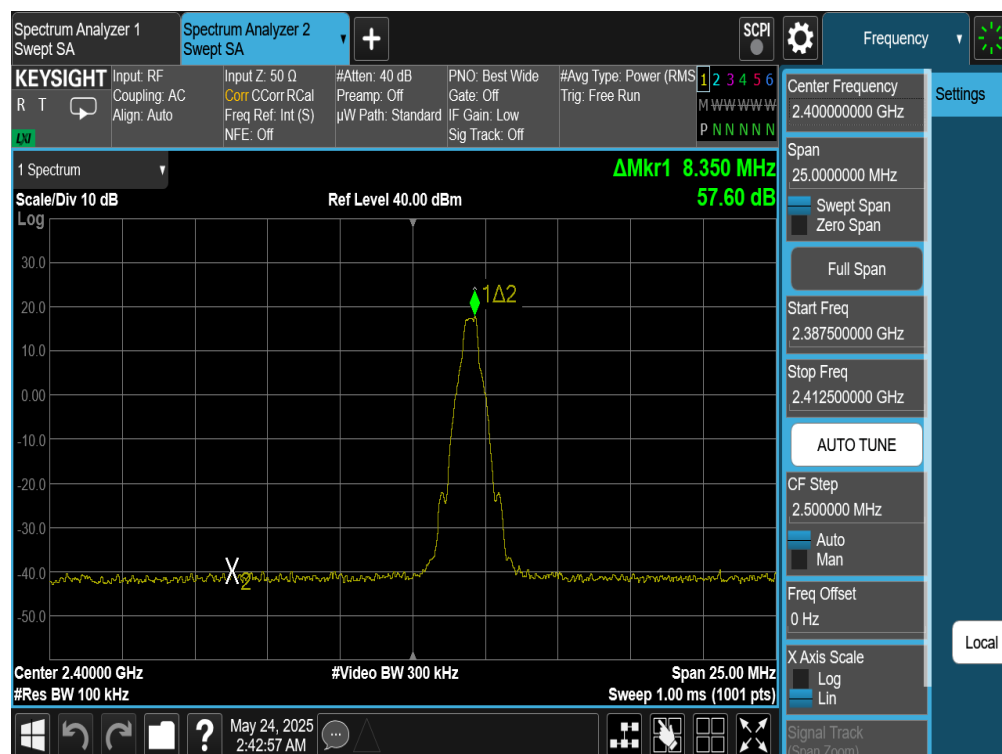
Plot 7-26. Band Edge Plot Antenna WF8 (Bluetooth with Hopping Enabled, 8DPSK, ePA)

FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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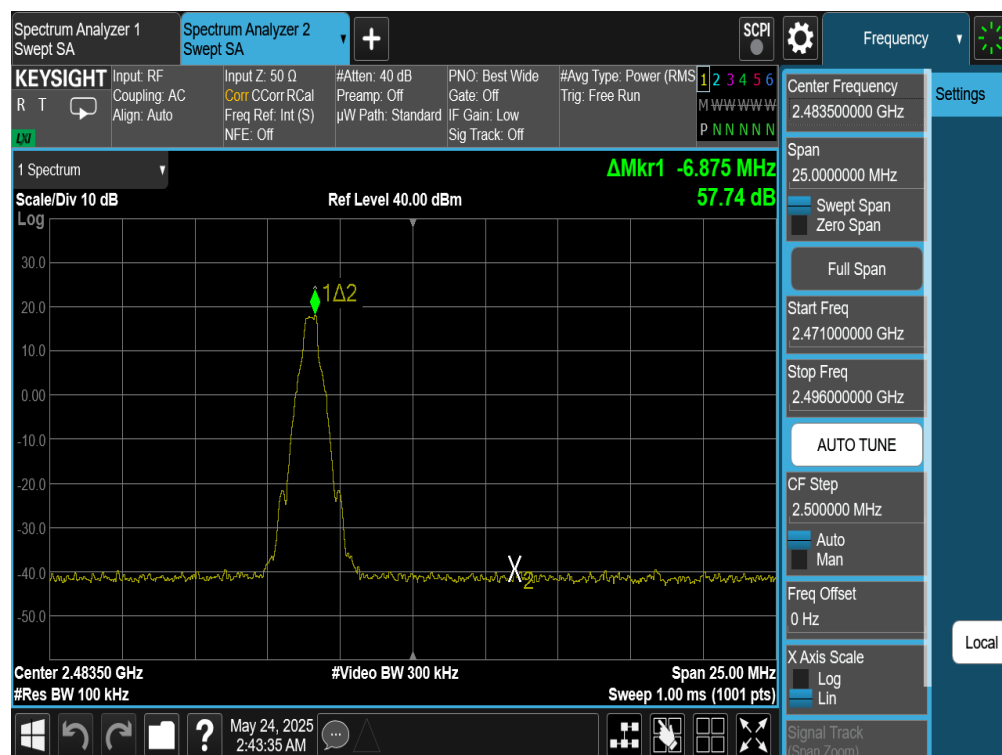
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7.4.2 Antenna WF7



Plot 7-27. Band Edge Plot Antenna WF7 (Bluetooth with Hopping Disabled, GFSK, ePA – Ch. 0)

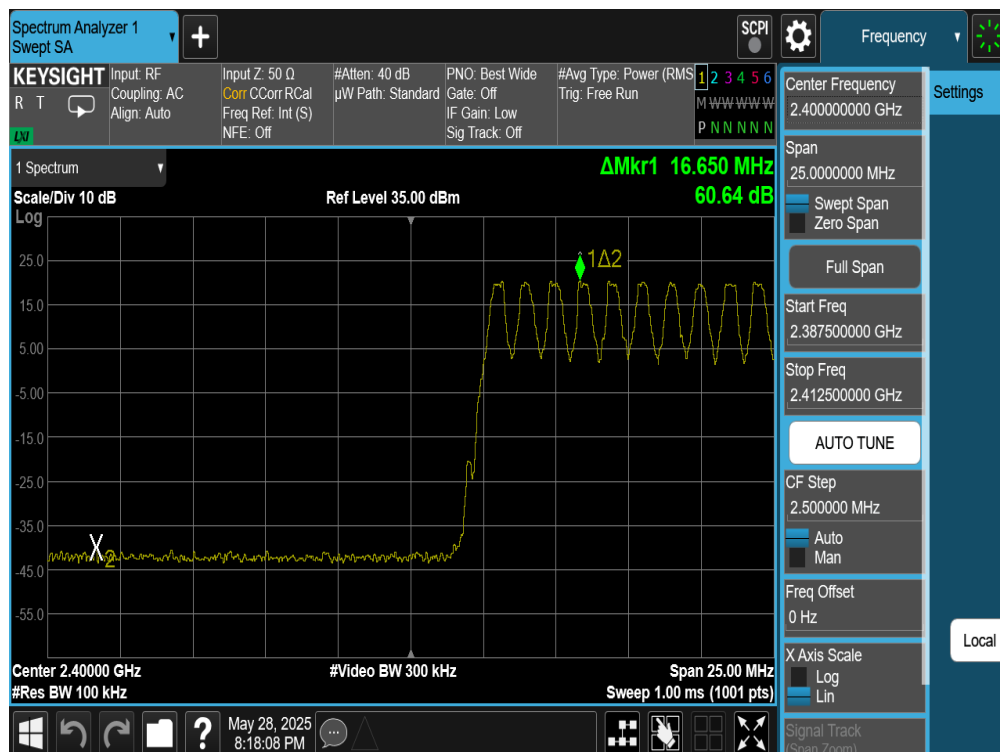


Plot 7-28. Band Edge Plot Antenna WF7 (Bluetooth with Hopping Disabled, GFSK, ePA – Ch. 78)

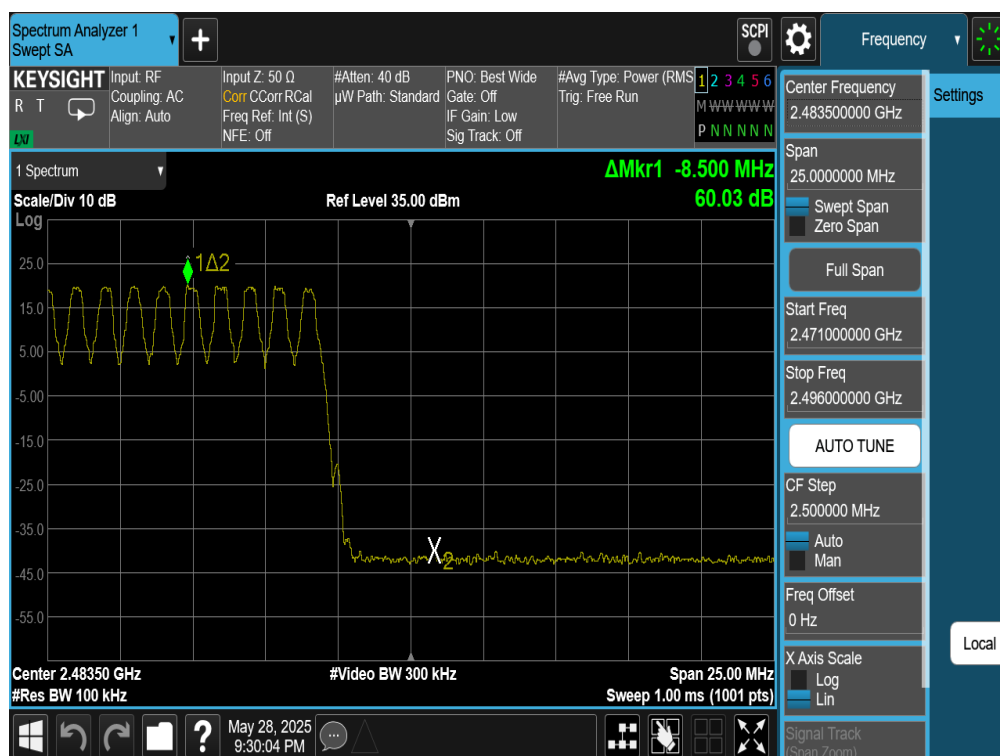
FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-29. Band Edge Plot Antenna WF7 (Bluetooth with Hopping Enabled, GFSK, ePA)

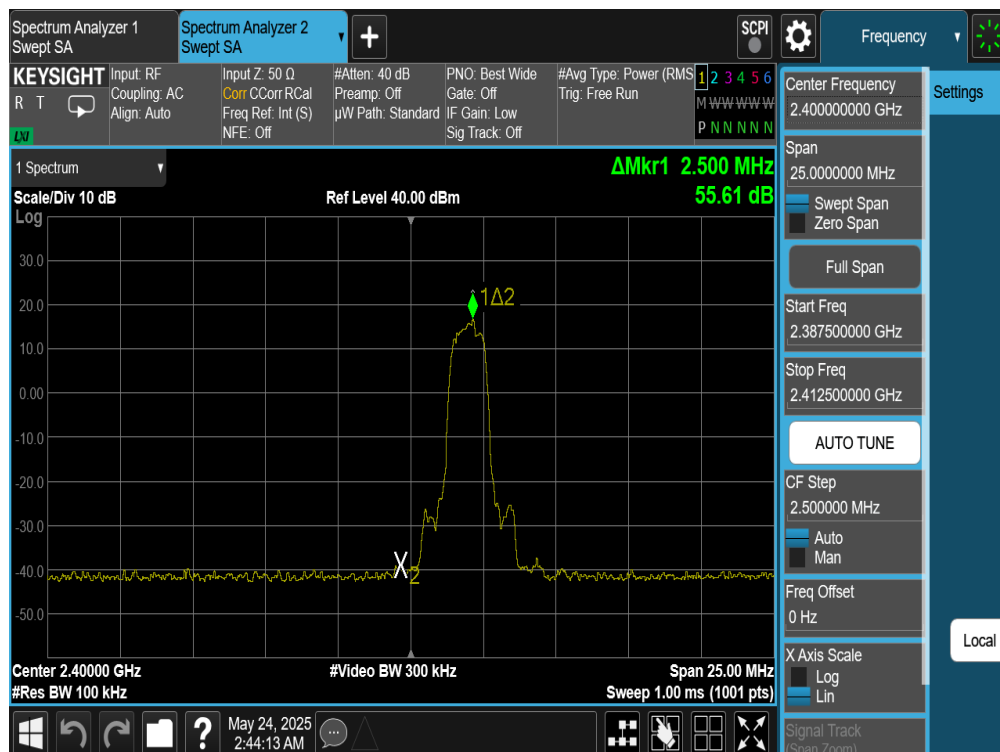


Plot 7-30. Band Edge Plot Antenna WF7 (Bluetooth with Hopping Enabled, GFSK, ePA)

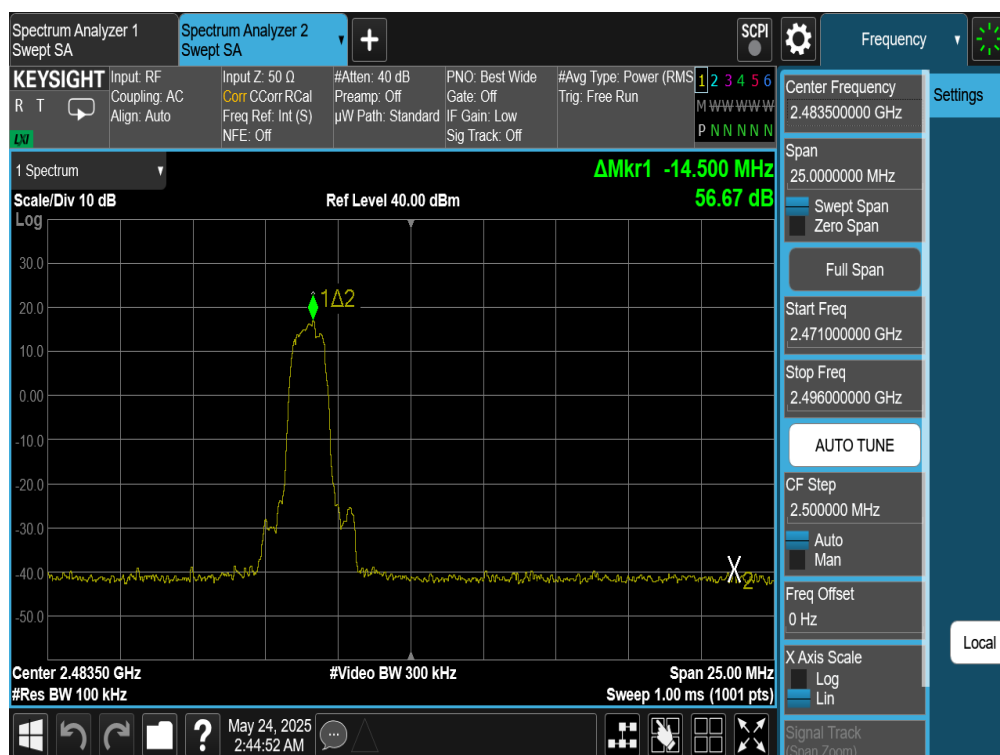
FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-31. Band Edge Plot Antenna WF7 (Bluetooth with Hopping Disabled, 8DPSK, ePA – Ch. 0)

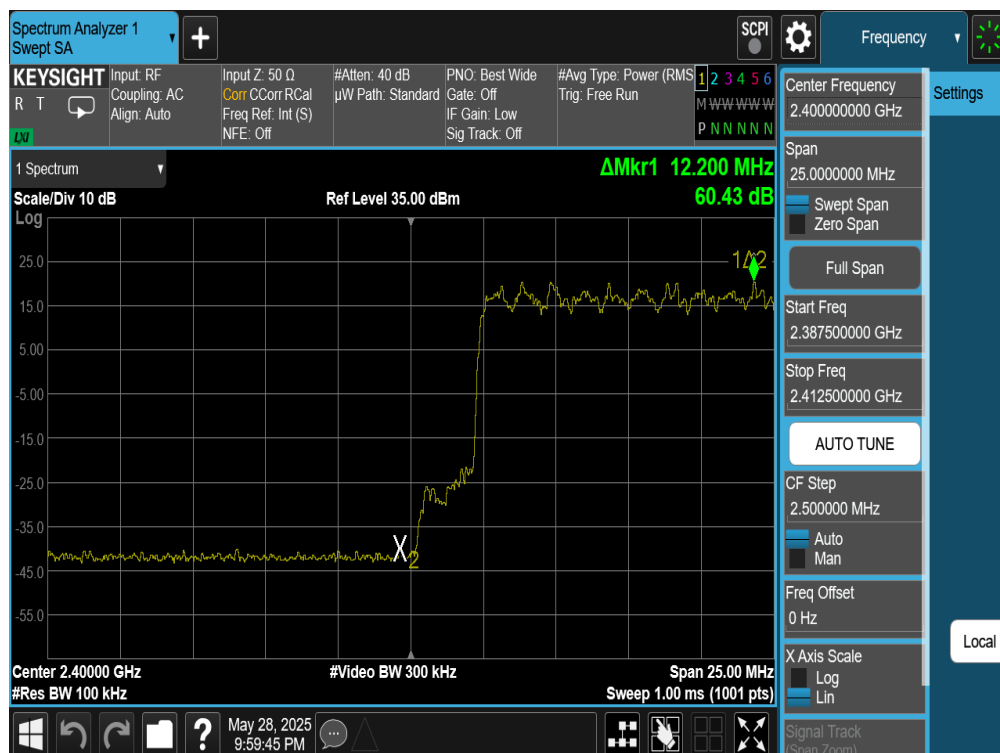


Plot 7-32. Band Edge Plot Antenna WF7 (Bluetooth with Hopping Disabled, 8DPSK, ePA – Ch. 78)

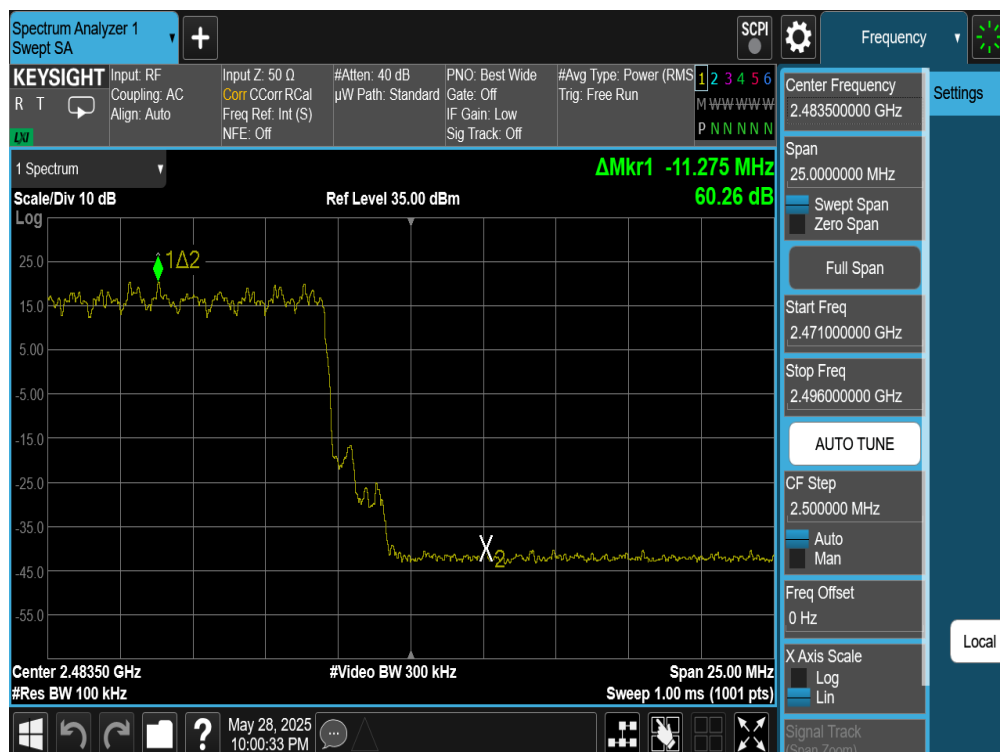
FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170040-09.BCG	Test Dates: 05/12/2025 - 09/02/2025	EUT Type: Tablet Device	Page 41 of 109

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Plot 7-33. Band Edge Plot Antenna WF7 (Bluetooth with Hopping Enabled, 8DPSK, ePA)



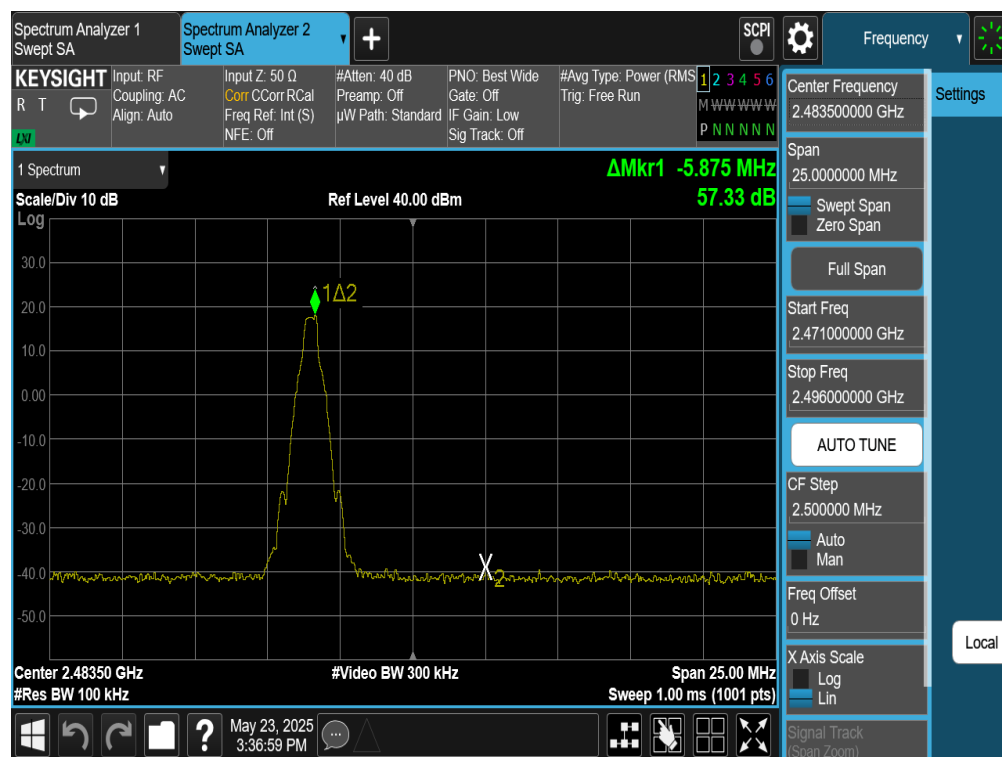
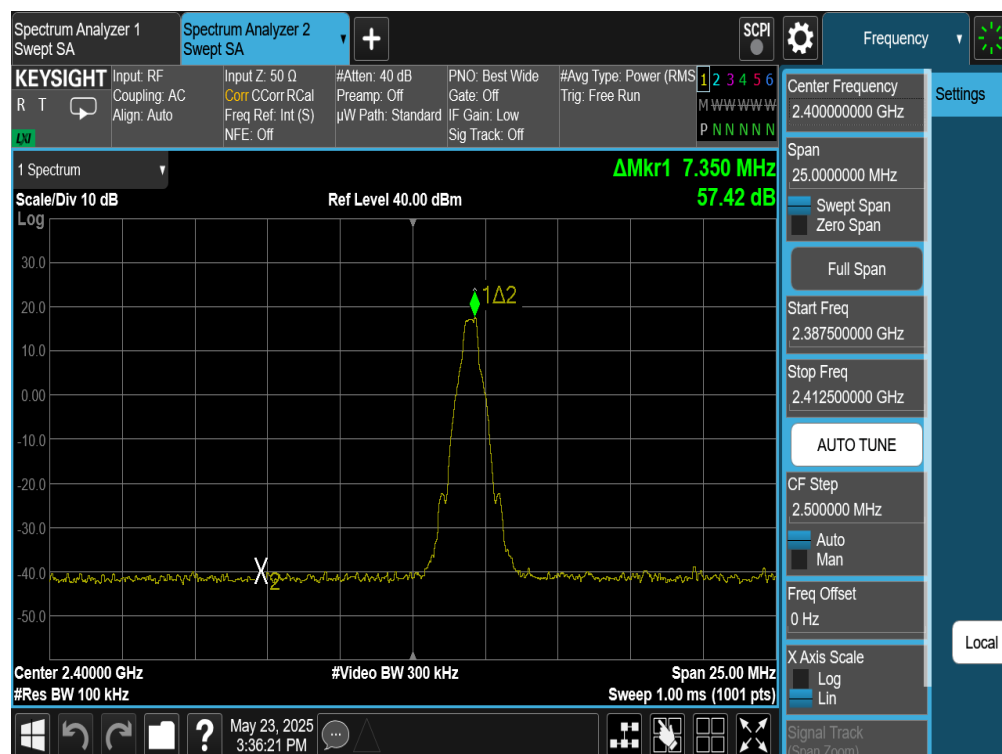
Plot 7-34. Band Edge Plot Antenna WF7 (Bluetooth with Hopping Enabled, 8DPSK, ePA)

FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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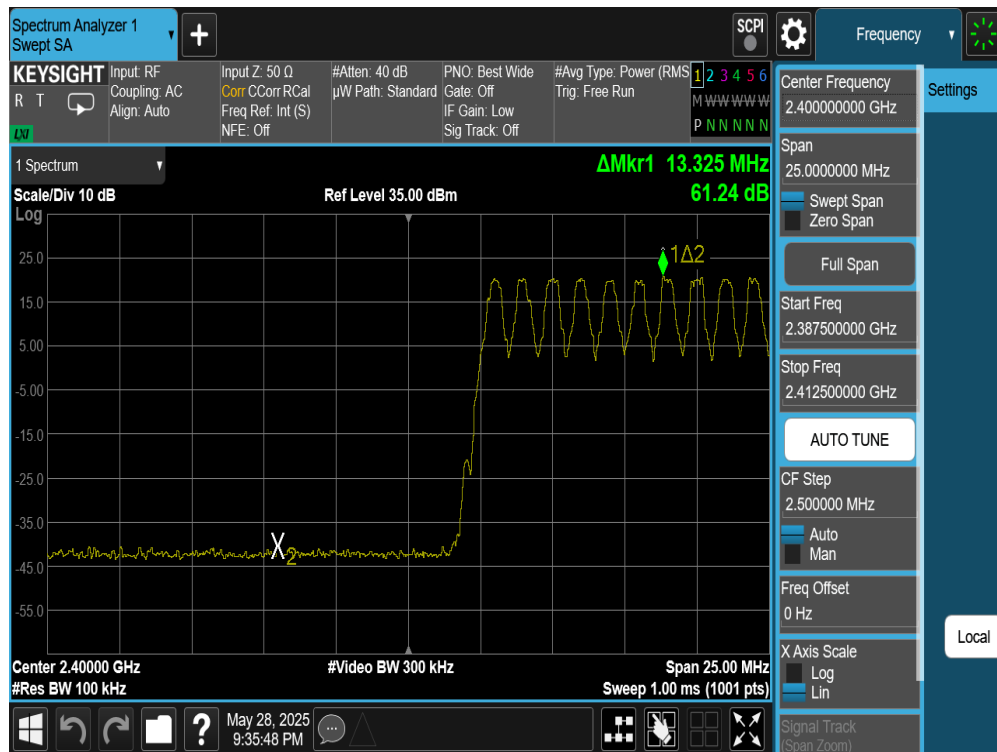
7.4.3 Antenna WF9



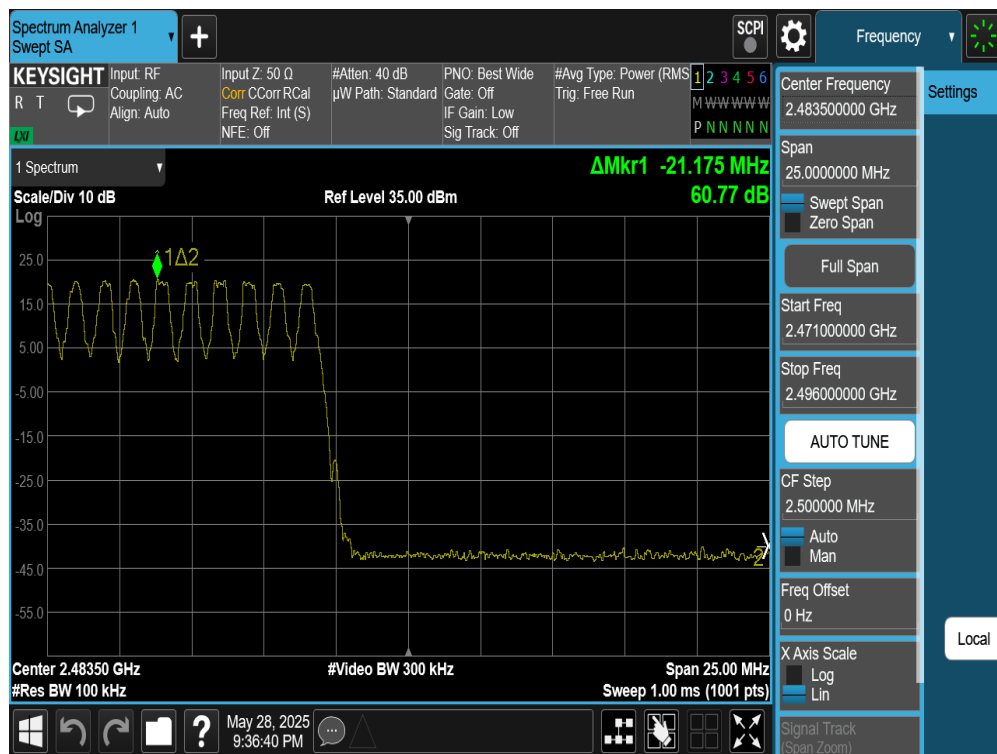
FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170040-09.BCG	Test Dates: 05/12/2025 - 09/02/2025	EUT Type: Tablet Device	Page 43 of 109

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Plot 7-37. Band Edge Plot Antenna WF9 (Bluetooth with Hopping Enabled, GFSK, ePA)

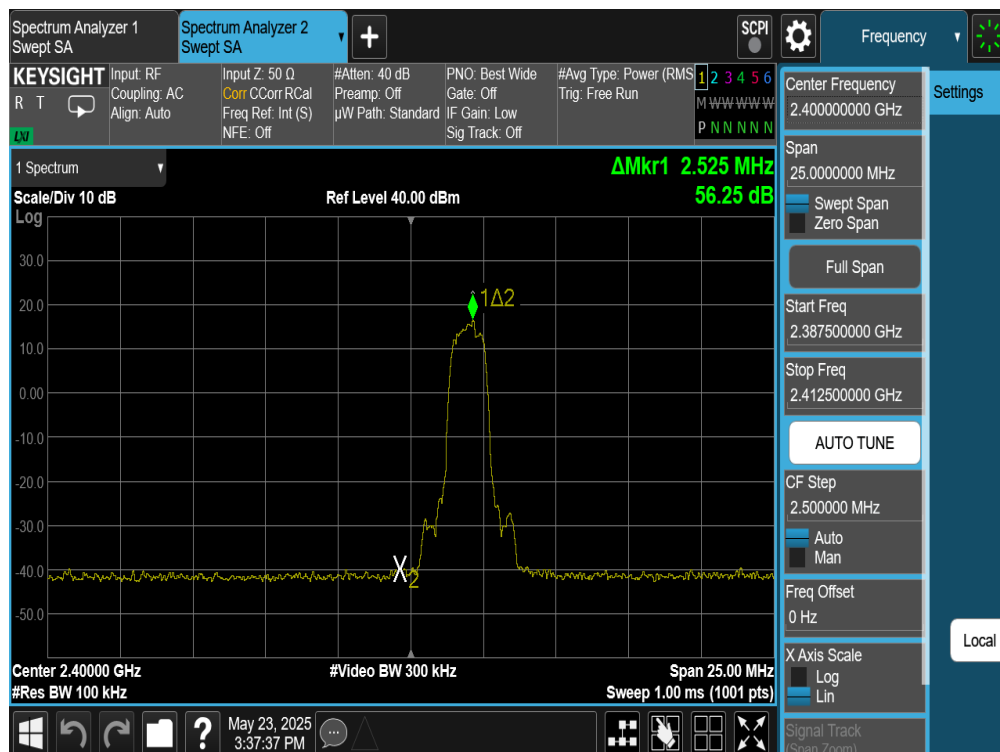


Plot 7-38. Band Edge Plot Antenna WF9 (Bluetooth with Hopping Enabled, GFSK, ePA)

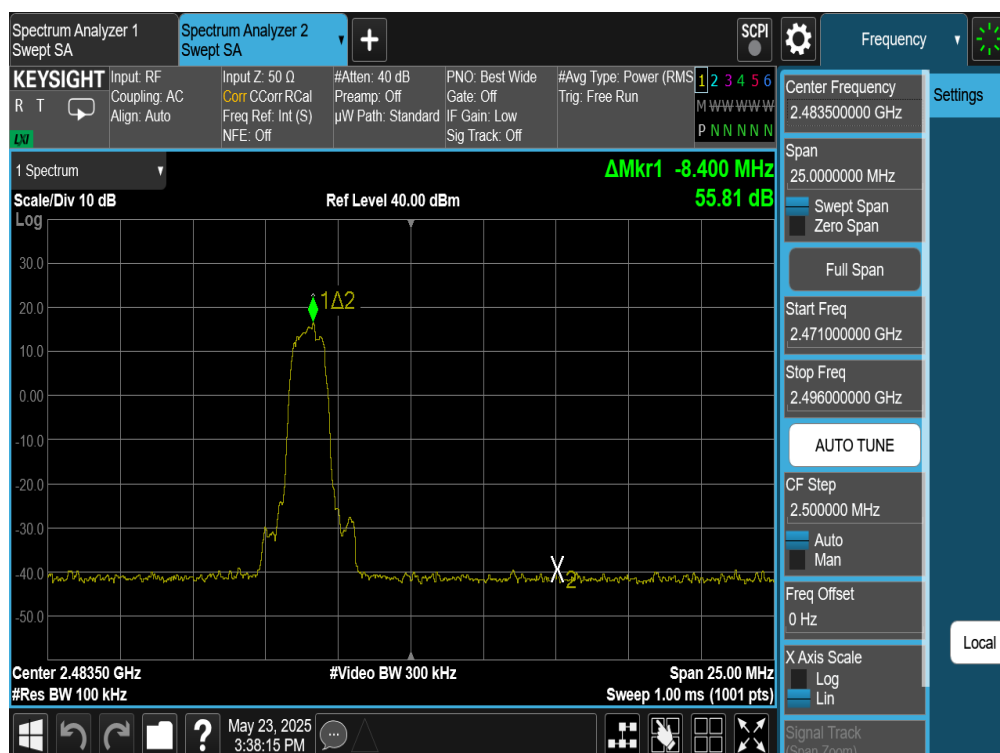
FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-39. Band Edge Plot Antenna WF9 (Bluetooth with Hopping Disabled, 8DPSK, ePA – Ch. 0)

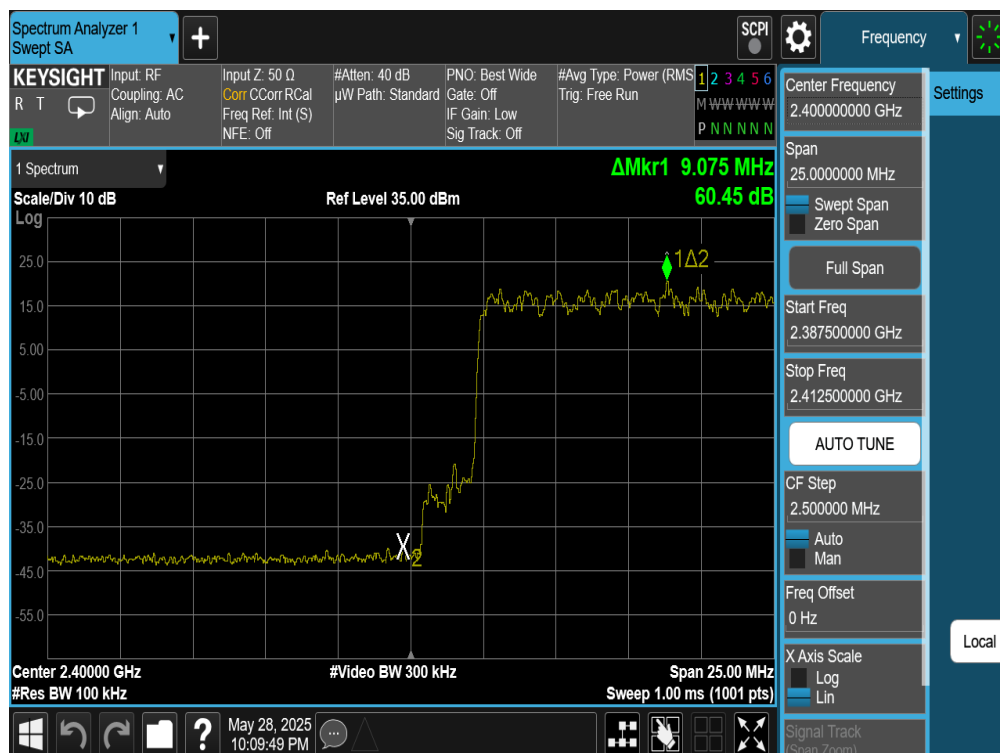


Plot 7-40. Band Edge Plot Antenna WF9 (Bluetooth with Hopping Disabled, 8DPSK, ePA – Ch. 78)

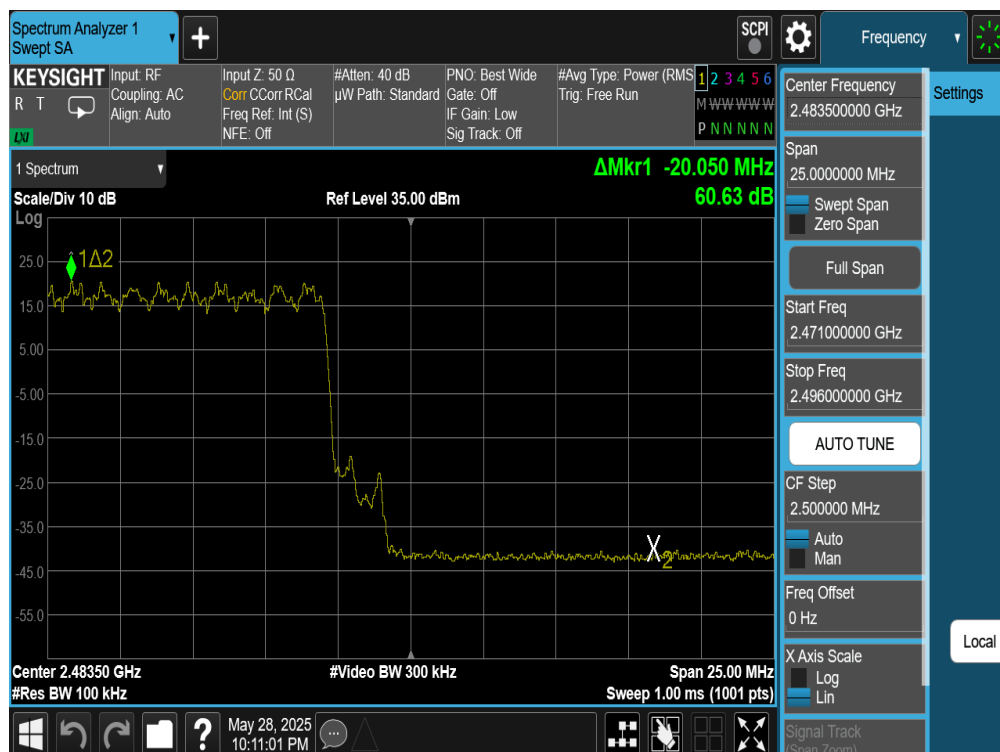
FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-41. Band Edge Plot Antenna WF9 (Bluetooth with Hopping Enabled, 8DPSK, ePA)



Plot 7-42. Band Edge Plot Antenna WF9 (Bluetooth with Hopping Enabled, 8DPSK, ePA)

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7.5 Carrier Frequency Separation

§15.247 (a)(1); RSS-247 [5.1(b)]

Test Overview and Limit

Measurement is made with EUT operating in hopping mode. ***The minimum permissible channel separation for this system is 2/3 the value of the 20dB BW.***

Test Procedure Used

ANSI C63.10-2020 – Section 7.8.2

Test Settings

1. Span = Wide enough to capture peaks of two adjacent channels
2. RBW = 30% of channel spacing. Adjust as necessary to best identify center of each individual channel
3. VBW $\geq$ RBW
4. Sweep = Auto
5. Detector = Peak
6. Trace mode = max hold
7. The trace was allowed to stabilize.
8. Marker-delta function used to determine separation between peaks of the adjacent channels

Test Setup

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

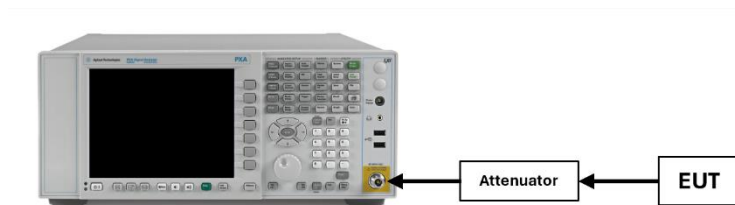


Figure 7-4. Test Instrument & Measurement Setup

Test Notes

1. The EUT complies with the minimum channel separation requirement when it is operating in 1x/EDR mode using 79 channels.
2. All supported modulation, antenna (including TxBF mode) and power schemes have been tested on the unit and only worst case configuration is reported.

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7.5.1 Antenna WF8

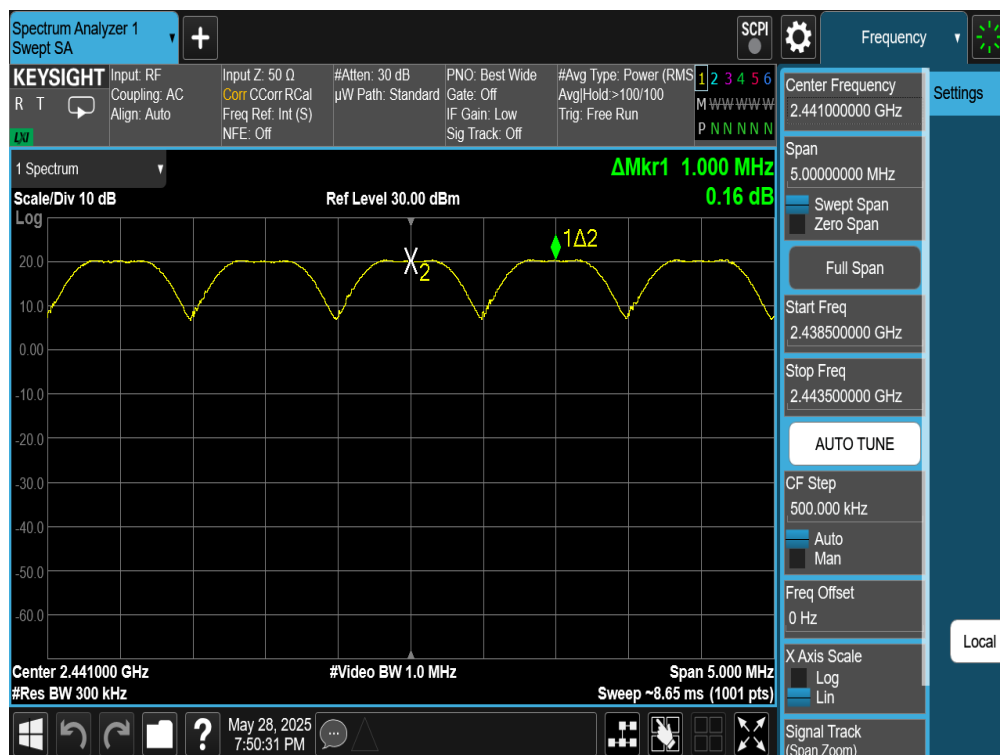
Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Measured Channel Separation [MHz]	Min. Channel Separation [MHz]	Pass/Fail
2441	1.0	GFSK	ePA	39	1.00	0.61	Pass
2441	3.0	8DPSK	ePA	39	1.00	0.85	Pass

Table 7-15. Minimum Channel Separation Antenna WF8

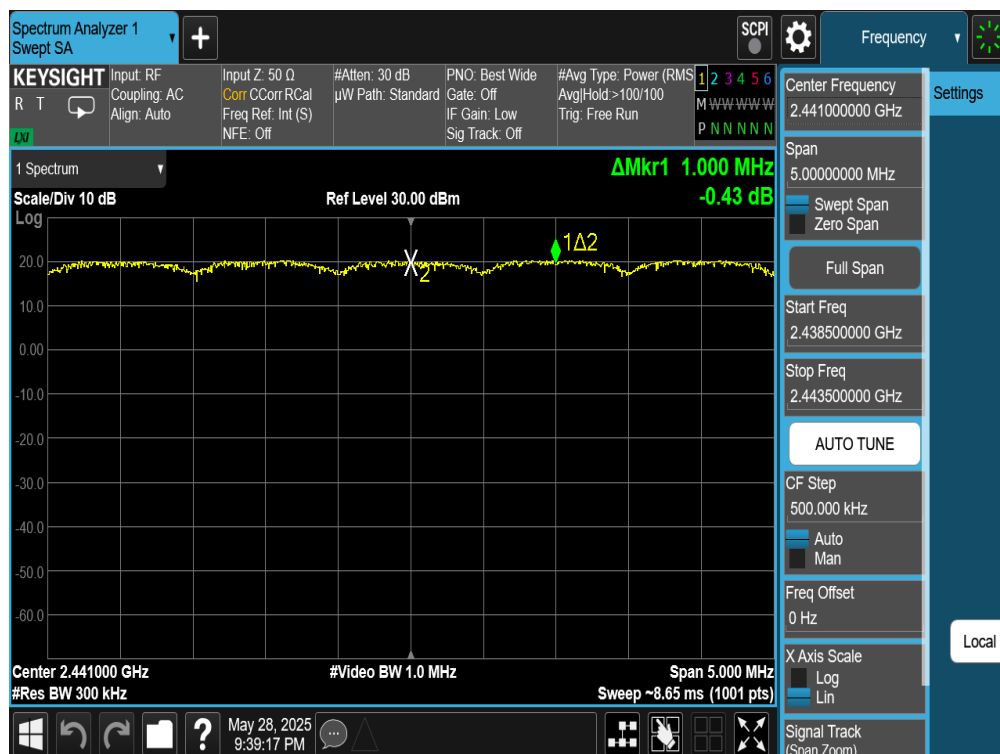
FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-43. Channel Spacing Plot Antenna WF8 (Bluetooth, GFSK, ePA)



Plot 7-44. Channel Spacing Plot Antenna WF8 (Bluetooth, 8DPSK, ePA)

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7.5.2 Antenna WF7

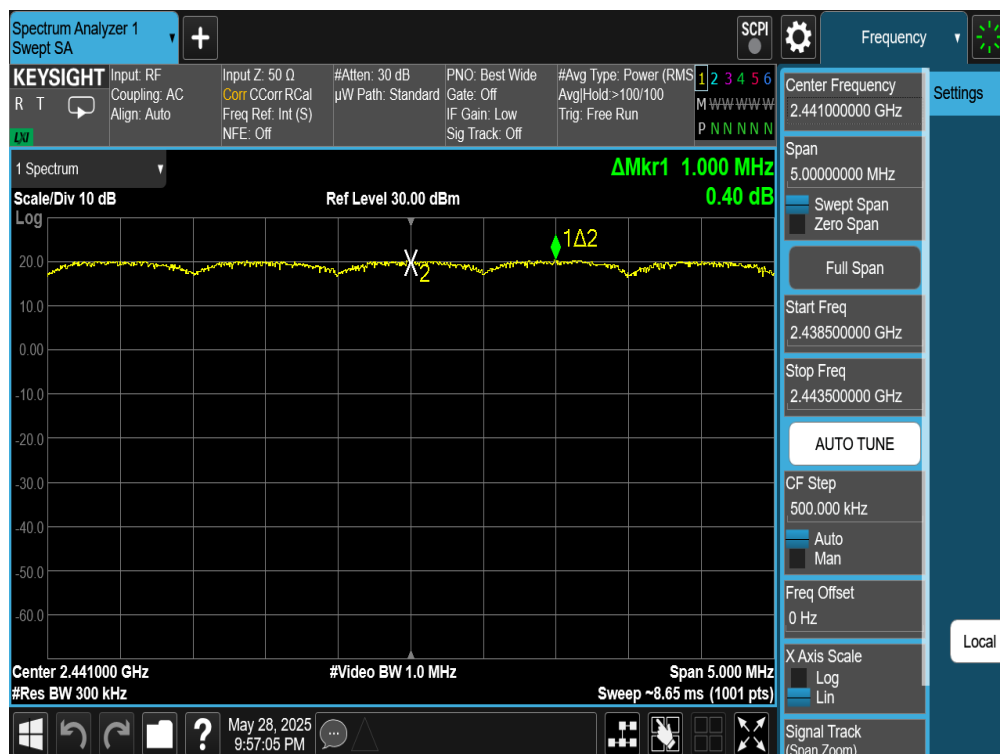
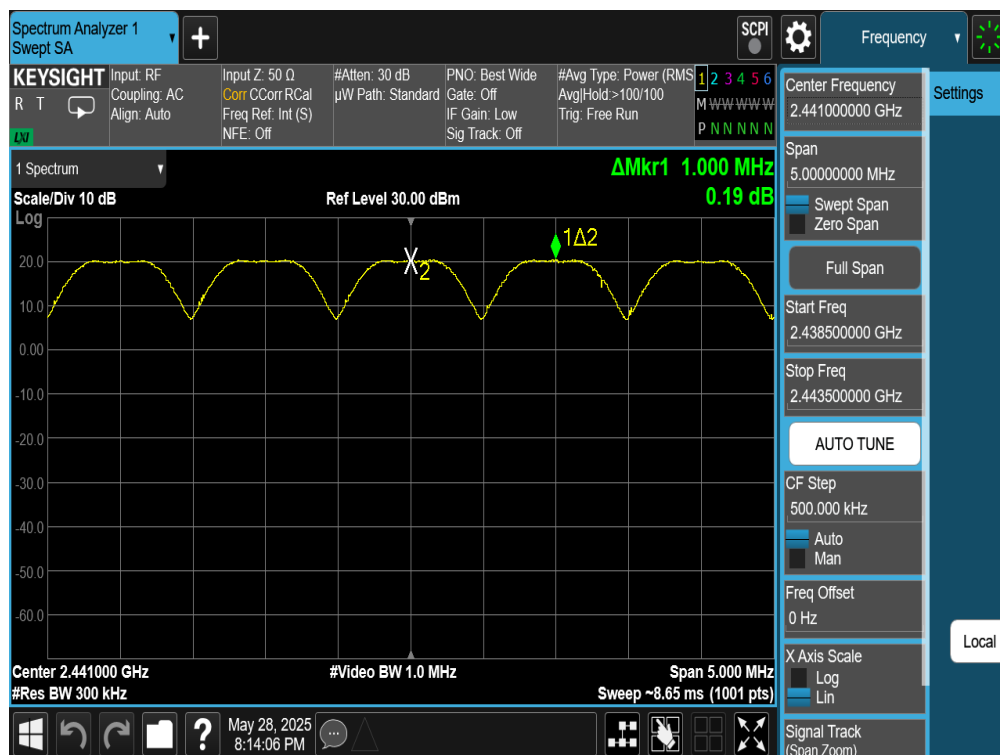
Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Measured Channel Separation [MHz]	Min. Channel Separation [MHz]	Pass/Fail
2441	1.0	GFSK	ePA	39	1.00	0.61	Pass
2441	3.0	8DPSK	ePA	39	1.00	0.85	Pass

Table 7-16. Minimum Channel Separation Antenna WF7

FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.5.3 Antenna WF9

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Measured Channel Separation [MHz]	Min. Channel Separation [MHz]	Pass/Fail
2441	1.0	GFSK	ePA	39	1.00	0.61	Pass
2441	3.0	8DPSK	ePA	39	1.00	0.85	Pass

Table 7-17. Minimum Channel Separation Antenna WF9

FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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