



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:

05/12/2025 - 08/29/2025

Test Report Issue Date:

9/4/2025

Test Site/Location:

Element Materials Technology, Morgan Hill, CA, USA

Test Report Serial No.:

1C2504170039-16-R1.BCG

FCC ID:

BCGA3358

IC:

579C-A3358

APPLICANT:

Apple Inc.

Application Type:

Certification

Model/HVIN:

A3358, A3359

EUT Type:

Tablet Device

Max. RF Output Power:

85.310 mW (19.31 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: 1C2504170039-16-R1.BCG) supersedes and replaced 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



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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: BCGA3358, IC: 579C-A3358**. 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.: YY73H7C7LJ, X6YW4WNPM9, H9HHEN0003H0000X4E, H9HHEL0009D0000X4D

2.2 Device Capabilities

This device contains the following capabilities:

850/1700/1900 WCDMA/HSPA, Multi-band LTE, 5G NR (FR1), 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.

HDR		HDT	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
01	2404	01	2404
:	:	:	:
38	2441	37	2440
:	:	:	:
73	2476	73	2476

Table 2-1. Bluetooth HDR Frequency / Channel Operations

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.

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Group	Mode	Data Rate (Mbps)	Modulation	Bandwidth (MHz)
1	HDR4	4	Pi/4-DQPSK	2
2	HDR8	8	Pi/4-DQPSK	4
3	HDRPS2	2	OQPSK	2
	XHDRPS2	2		
4	HDRPM4	4	OQPSK	4
	HDRPM6	6		
	HDRPM8	8		
	XHDRPM4	4		
	XHDRPM6	6		
	XHDRPM8	8		
5	HDRPM12	12	16QAM	4
	HDRPM16	16		
	XHDRPM12	12		
	XHDRPM16	16		
6	HDT2	2	Pi/4-QPSK	2
	HDT3	3		
7	HDT4	4	8PSK	2
8	HDT6	6	16QAM	2
	HDT8	8		

Table 2-2. Bluetooth HDR/HDT Configuration

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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:

HDR/HDT Mode		Antenna 4a		Antenna 2a		TxBF	
		Duty Cycle [%]	DCCF [dB]	Duty Cycle [%]	DCCF [dB]	Duty Cycle [%]	DCCF [dB]
HDR4	ePA	77.553	1.104	77.500	1.107	77.500	1.107
	iPA	77.553	1.104	77.500	1.107	77.500	1.107
HDR8	ePA	94.646	0.239	77.750	1.093	77.750	1.093
	iPA	94.646	0.239	77.750	1.093	77.750	1.093
HDRPS2	ePA	91.770	0.373	91.981	0.363	92.576	0.335
	iPA	91.770	0.373	91.981	0.363	92.576	0.335
XHDRPS2	ePA	98.560	0.063	98.560	0.063	98.311	0.074
	iPA	98.560	0.063	98.560	0.063	98.311	0.074
XHDRPM6	ePA	86.616	0.624	86.397	0.635	86.080	0.651
	iPA	86.616	0.624	86.397	0.635	86.080	0.651
XHDRPM8	ePA	92.257	0.350	92.172	0.354	92.257	0.350
	iPA	92.257	0.350	92.172	0.354	92.257	0.350
HDRPM16	ePA	89.784	0.468	89.784	0.468	89.392	0.487
	iPA	89.784	0.468	89.784	0.468	89.392	0.487
XHDRPM16	ePA	87.317	0.589	87.498	0.580	87.922	0.559
	iPA	87.317	0.589	87.498	0.580	87.922	0.559
HDT2	ePA	96.472	0.156	95.940	0.180	96.316	0.163
	iPA	96.472	0.156	95.940	0.180	96.316	0.163
HDT8	ePA	90.594	0.429	90.740	0.422	90.365	0.440
	iPA	90.594	0.429	90.740	0.422	90.365	0.440

Table 2-3. Measured Duty Cycles

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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	WIFI 6GHz	LTE / FR1 NR		
		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	LB	MB/HB	UHB
Ant 4a	Config 1	✓	✗	✗	✗	✓	✗	✗	✗	✗
Ant 4a	Config 2	✓	✗	✗	✗	✗	✓	✗	✗	✗
Ant 4a	Config 3	✗	✓	✗	✗	✓	✗	✗	✗	✗
Ant 4a	Config 4	✗	✓	✗	✗	✗	✓	✗	✗	✗
Ant 4a	Config 5	✗	✗	✓	✓	✗	✗	✗	✗	✗
Ant 4a	Config 6	✗	✗	✓	✗	✓	✗	✗	✗	✗
Ant 4a	Config 7	✗	✗	✓	✗	✗	✓	✗	✗	✗
Ant 2a	Config 8	✓	✗	✗	✗	✓	✗	✗	✗	✗
Ant 2a	Config 9	✓	✗	✗	✗	✗	✓	✗	✗	✗
Ant 2a	Config 10	✗	✓	✗	✗	✓	✗	✗	✗	✗
Ant 2a	Config 11	✗	✓	✗	✗	✗	✓	✗	✗	✗
Ant 2a	Config 12	✗	✗	✓	✓	✗	✗	✗	✗	✗
Ant 2a	Config 13	✗	✗	✓	✗	✓	✗	✗	✗	✗
Ant 2a	Config 14	✗	✗	✓	✗	✗	✓	✗	✗	✗

Table 2-4. Simultaneous Transmission Configurations

✓ = Support; ✗ = Not Support

Note:

All the above simultaneous transmission configurations have been tested and the worst-case configuration was found to be Config 1 and reported in RF Bluetooth and RF UNII 5GHz (OFDM) test reports.

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2.3 Antenna Description

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

Frequency [GHz]	Antenna Gain (dBi)	
	Antenna 4a	Antenna 2a
2.4	2.4	1.7

Table 2-5. Highest Antenna Gain

2.4 Test Support Equipment

1	Apple MacBook Pro w/AC/DC Adapter	Model: Model:	A2141 A2166	S/N: S/N:	C02H604EQ05D C4H042705ZNP00WA6
2	Apple USB-C Cable	Model:	Spartan	S/N:	GXK1336018XKTR024
3	USB-C Cable w/ AC Adapter	Model: Model:	A2795 A2305	S/N: S/N:	DWH80115BK826GV19 C4H95160004PF4F4V
4	Apple Pencil	Model:	A2538	S/N:	KJ26TCFXJW
5	DC Power Supply	Model:	KPS3010D	S/N:	N/A

Table 2-6. Test Support Equipment List

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2.5 Test Configuration

The EUT was tested per the guidance of ANSI C63.10-2020 and KDB 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.

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 was 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

BT rates have been categorized into multiple groups (see Table 2-2), with each group evaluated and only the worst-case rate per group was reported.

For conducted emissions, the following are the worst case BT rates for testing:

1. HDR4
2. HDR8
3. HDRPS2
4. XHDRPM6
5. HDRPM16
6. HDT2

For radiated band edge, the following are the worst case BT rates for testing:

1. HDR4
2. HDR8
3. XHDRPS2
4. XHDRPM8
5. XHDRPM16
6. HDT8

For radiated spurious emission, the following are the worst case BT rates for testing:

1. HDR4

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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/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	7/12/2024	Annual	7/12/2025	101363
Schwarzbeck	VULB 9162	Bilog Antenna (30MHz - 6GHz)	9/18/2024	Annual	9/18/2025	00358

Table 6-1. Test Equipment List

Note:

- 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: BCGA3358
 IC: 579C-A3358
 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:

- All modes of operation were investigated. The test results shown in the following sections represent the worst case emissions.
- 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.
- 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.
- 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.
- 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

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 4a

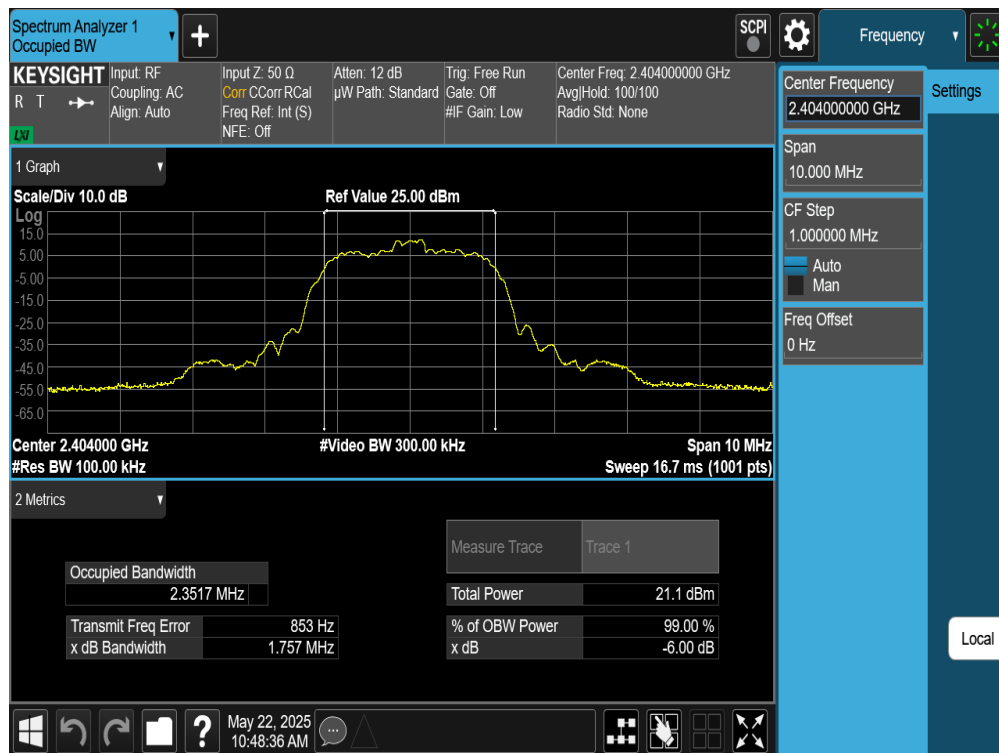
Frequency [MHz]	Mode	Power Scheme	Channel	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass/Fail
2404	HDR4	ePA	1	2.352	1.757	0.50	Pass
2441	HDR4	ePA	38	2.354	1.586	0.50	Pass
2476	HDR4	ePA	73	2.352	1.665	0.50	Pass
2404	HDR8	ePA	1	4.633	0.564	0.50	Pass
2441	HDR8	ePA	38	4.643	0.887	0.50	Pass
2476	HDR8	ePA	73	4.645	0.565	0.50	Pass
2404	HDRPS2	ePA	1	2.379	2.075	0.50	Pass
2441	HDRPS2	ePA	38	2.381	2.086	0.50	Pass
2476	HDRPS2	ePA	73	2.380	2.098	0.50	Pass
2404	XHDRPM6	ePA	1	4.723	4.060	0.50	Pass
2441	XHDRPM6	ePA	38	4.717	4.063	0.50	Pass
2476	XHDRPM6	ePA	73	4.724	4.061	0.50	Pass
2404	HDRPM16	ePA	1	4.697	1.206	0.50	Pass
2441	HDRPM16	ePA	38	4.690	1.209	0.50	Pass
2476	HDRPM16	ePA	73	4.695	2.513	0.50	Pass
2404	HDT2	ePA	1	2.395	2.119	0.50	Pass
2440	HDT2	ePA	37	2.394	2.118	0.50	Pass
2476	HDT2	ePA	73	2.395	2.119	0.50	Pass

Table 7-2. 6dB BW & 99% OBW Measurements Antenna 4a

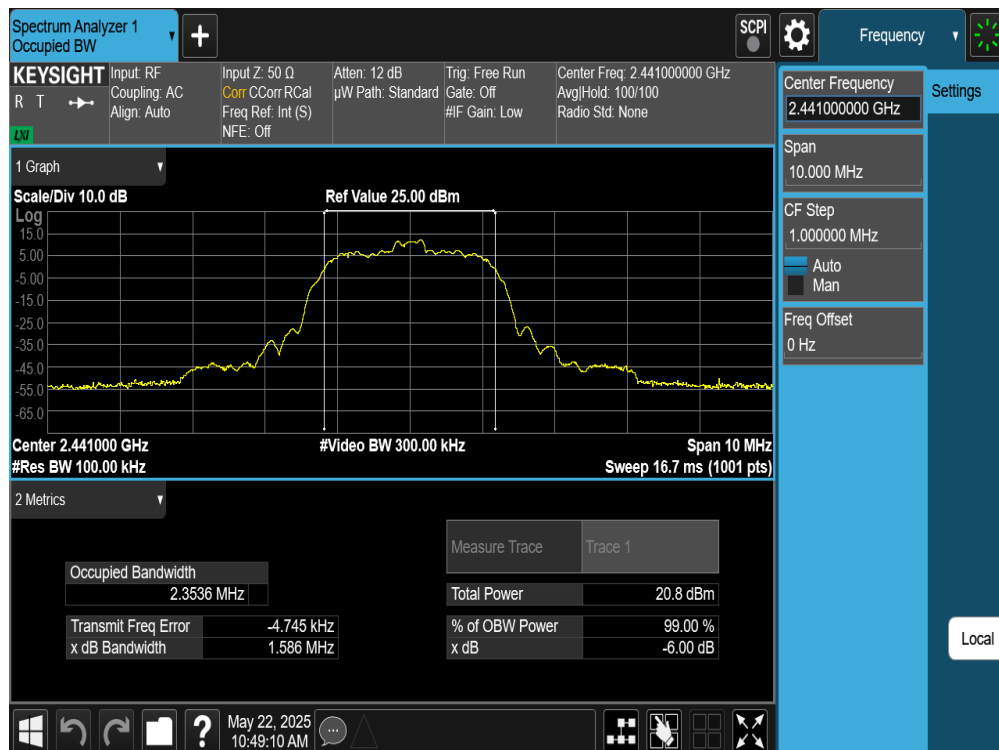
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Plot 7-1. 6dB BW & 99% OBW Plot Antenna 4a (Bluetooth (HDR4), 4Mbps, ePA – Ch. 1)

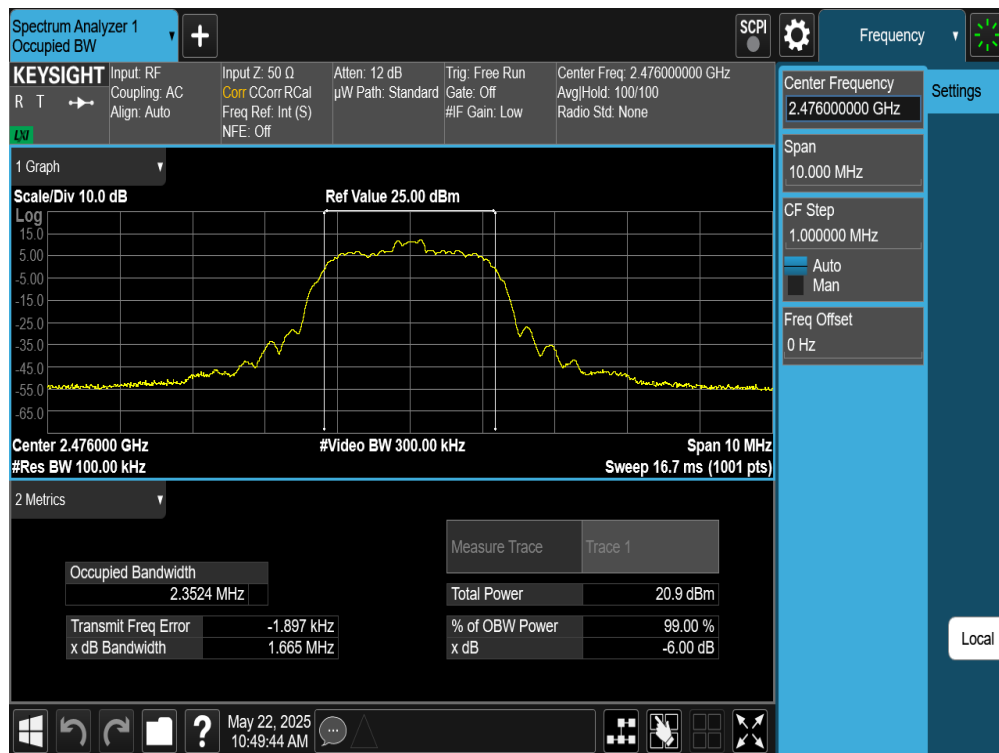


Plot 7-2. 6dB BW & 99% OBW Plot Antenna 4a (Bluetooth (HDR4), 4Mbps, ePA – Ch. 38)

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

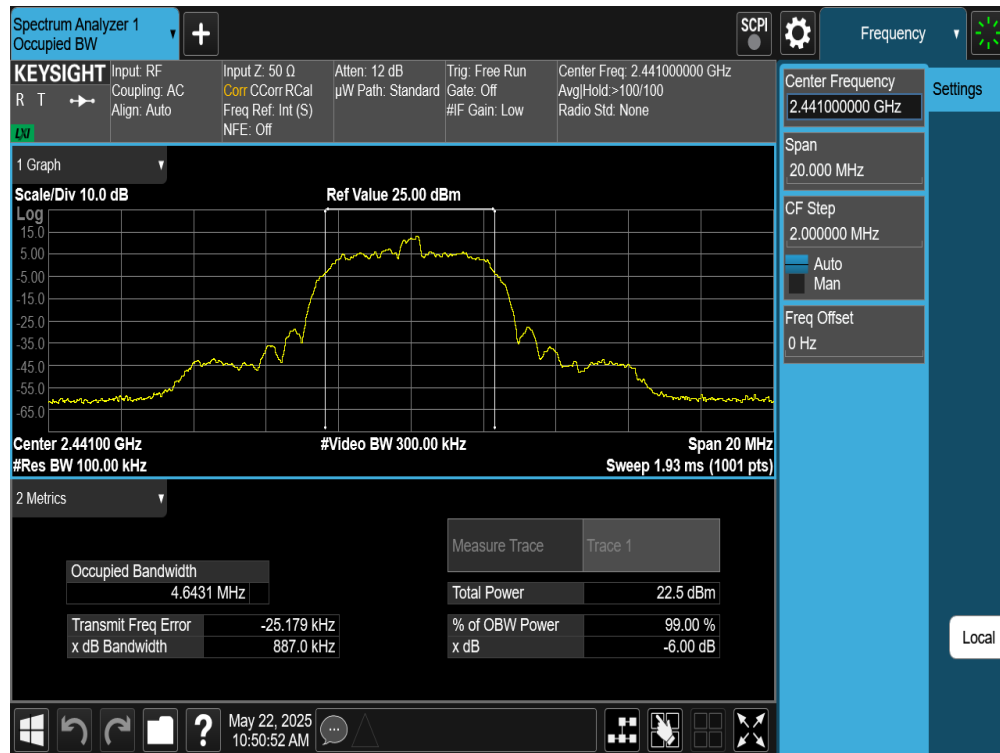


Plot 7-4. 6dB BW & 99% OBW Plot Antenna 4a (Bluetooth (HDR8), 8Mbps, ePA – Ch. 1)

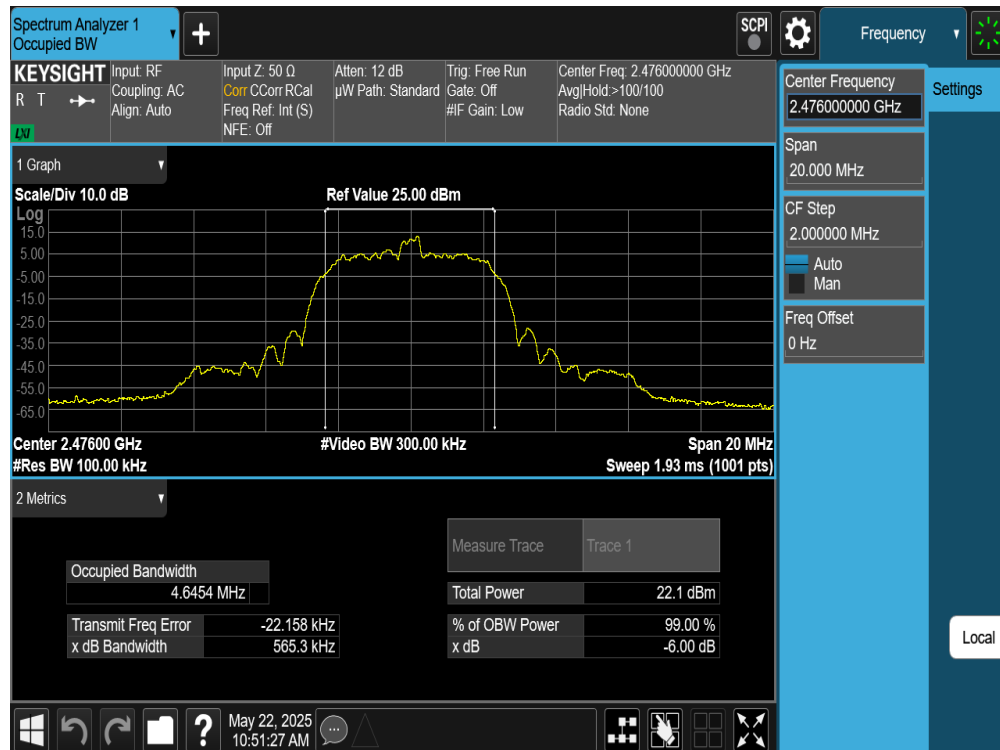
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Plot 7-5. 6dB BW & 99% OBW Plot Antenna 4a (Bluetooth (HDR8), 8Mbps, ePA – Ch. 38)

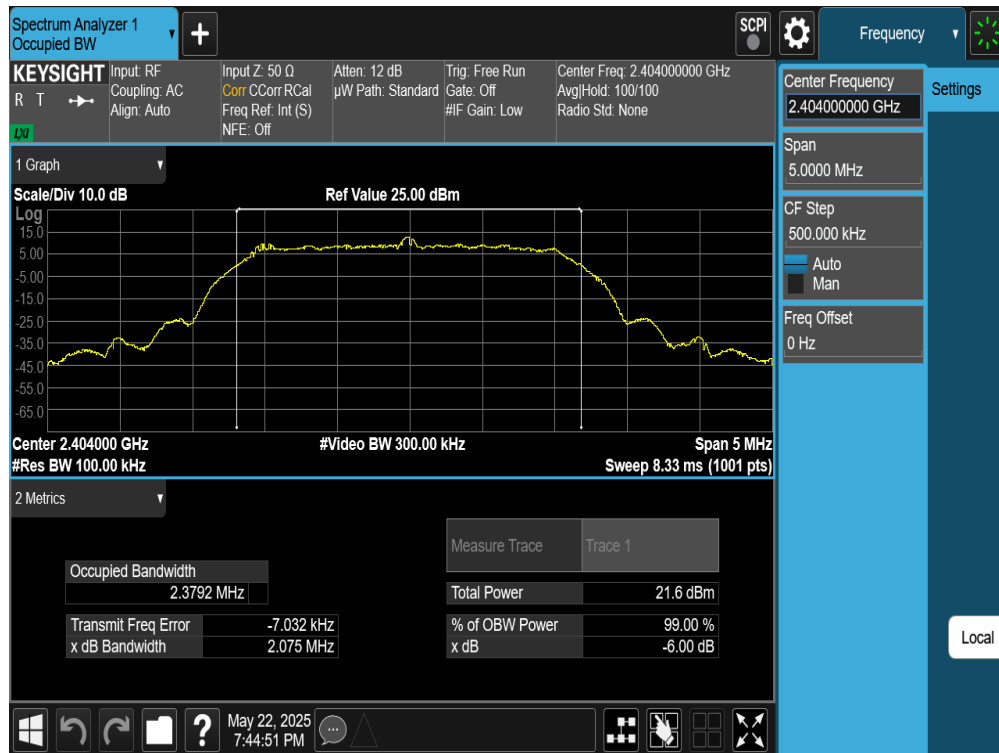


Plot 7-6. 6dB BW & 99% OBW Plot Antenna 4a (Bluetooth (HDR8), 8Mbps, ePA – Ch. 73)

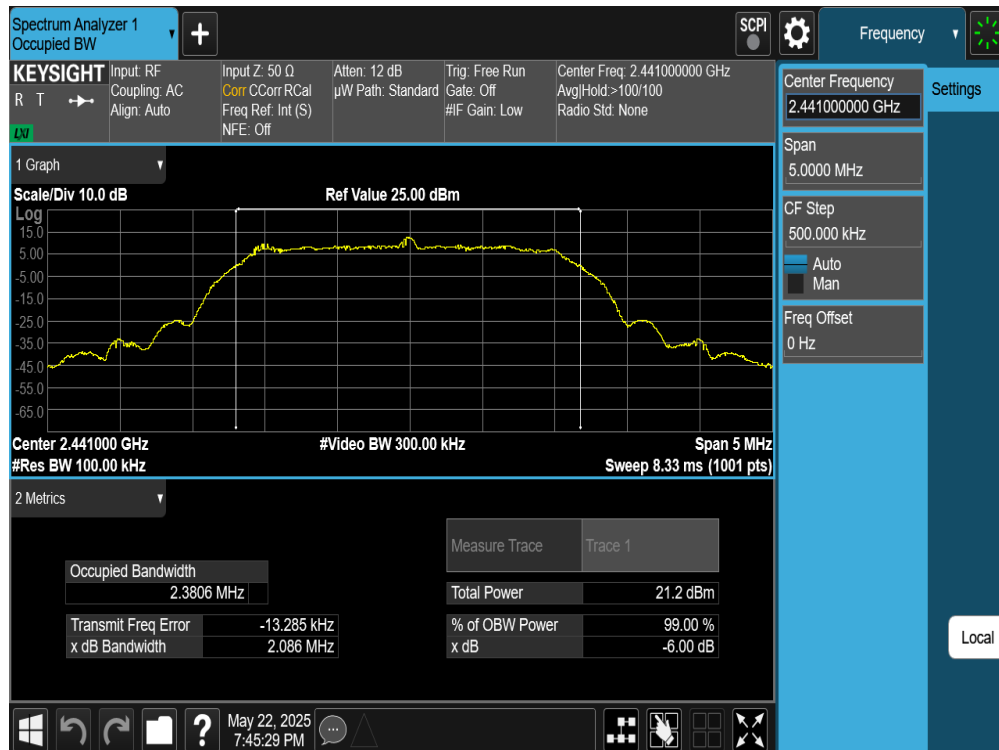
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Plot 7-7. 6dB BW & 99% OBW Plot Antenna 4a (Bluetooth (HDRPS2), 2Mbps, ePA – Ch. 1)

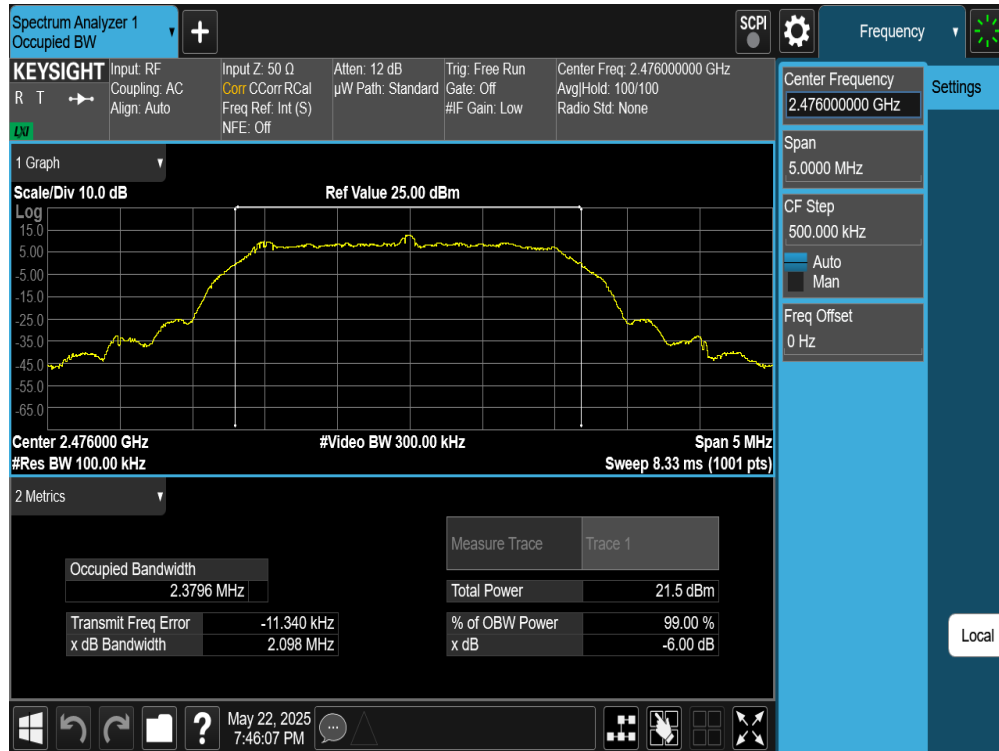


Plot 7-8. 6dB BW & 99% OBW Plot Antenna 4a (Bluetooth (HDRPS2), 2Mbps, ePA – Ch. 38)

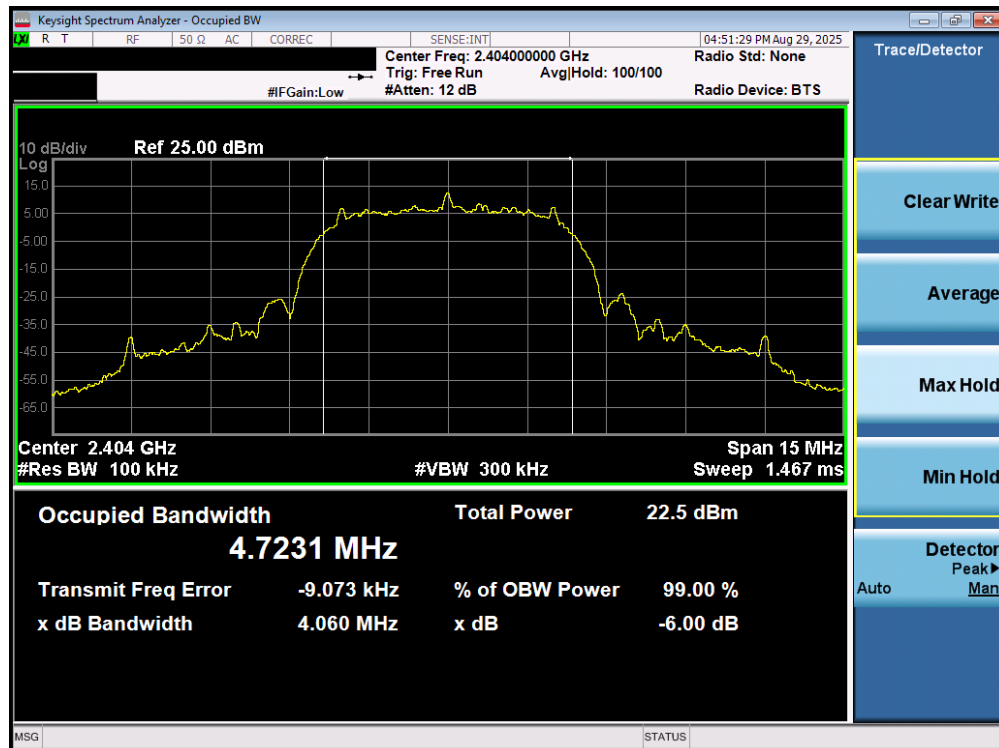
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Plot 7-9. 6dB BW & 99% OBW Plot Antenna 4a (Bluetooth (HDRPS2), 2Mbps, ePA – Ch. 73)

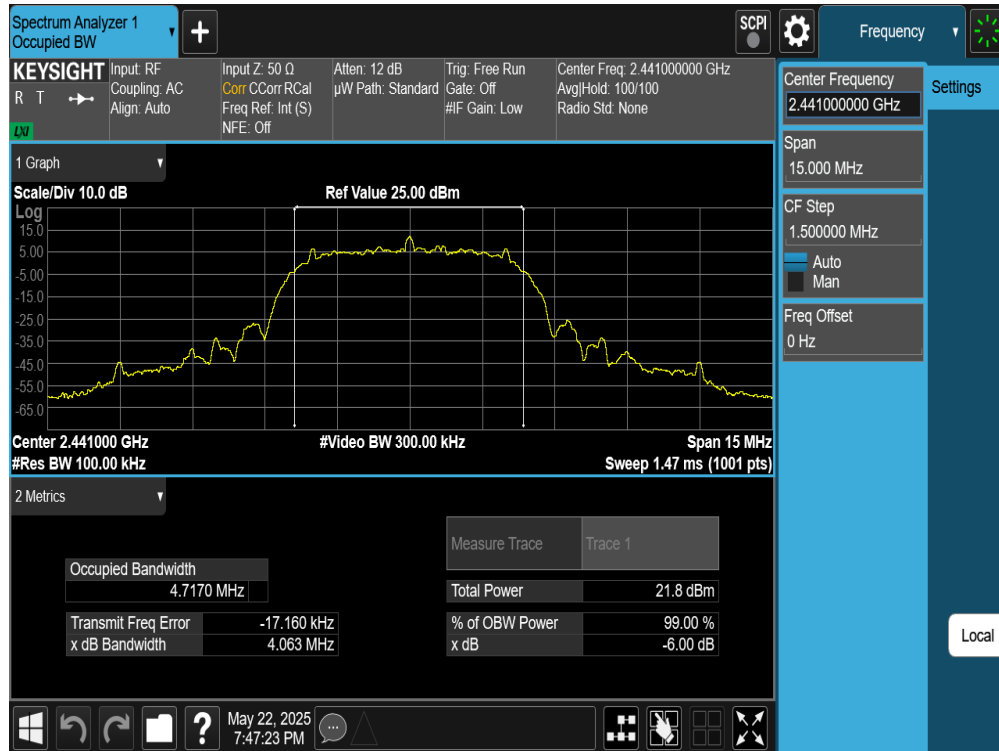


Plot 7-10. 6dB BW & 99% OBW Plot Antenna 4a (Bluetooth (XHDRPM6), 6Mbps, ePA – Ch. 1)

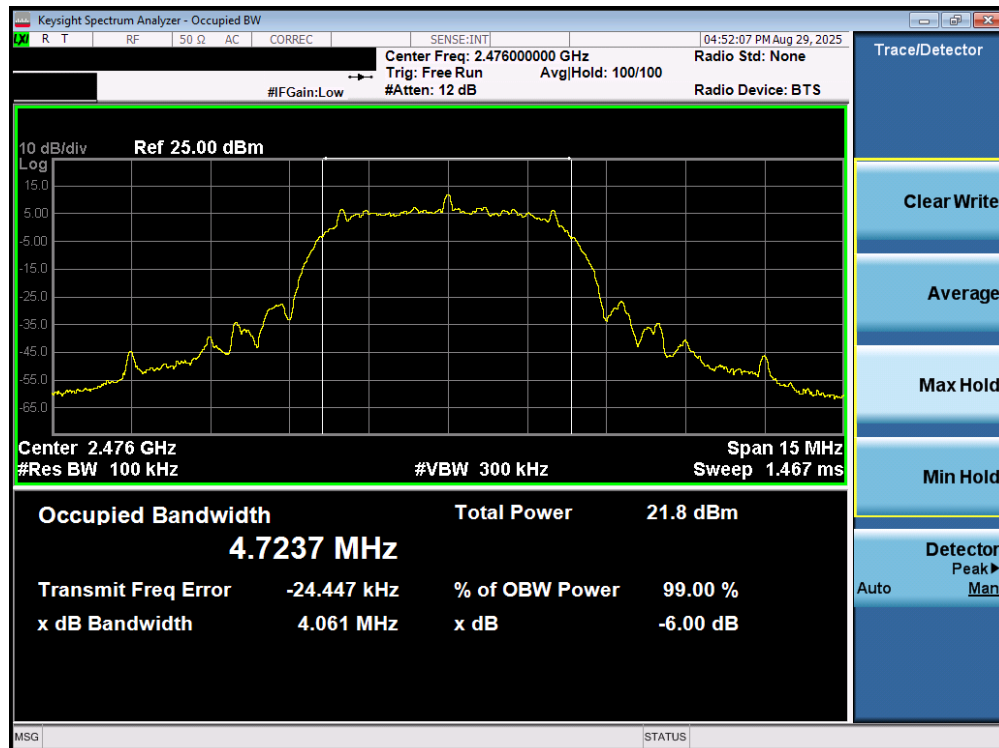
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Plot 7-11. 6dB BW & 99% OBW Plot Antenna 4a (Bluetooth (XHDRPM6), 6Mbps, ePA – Ch. 38)

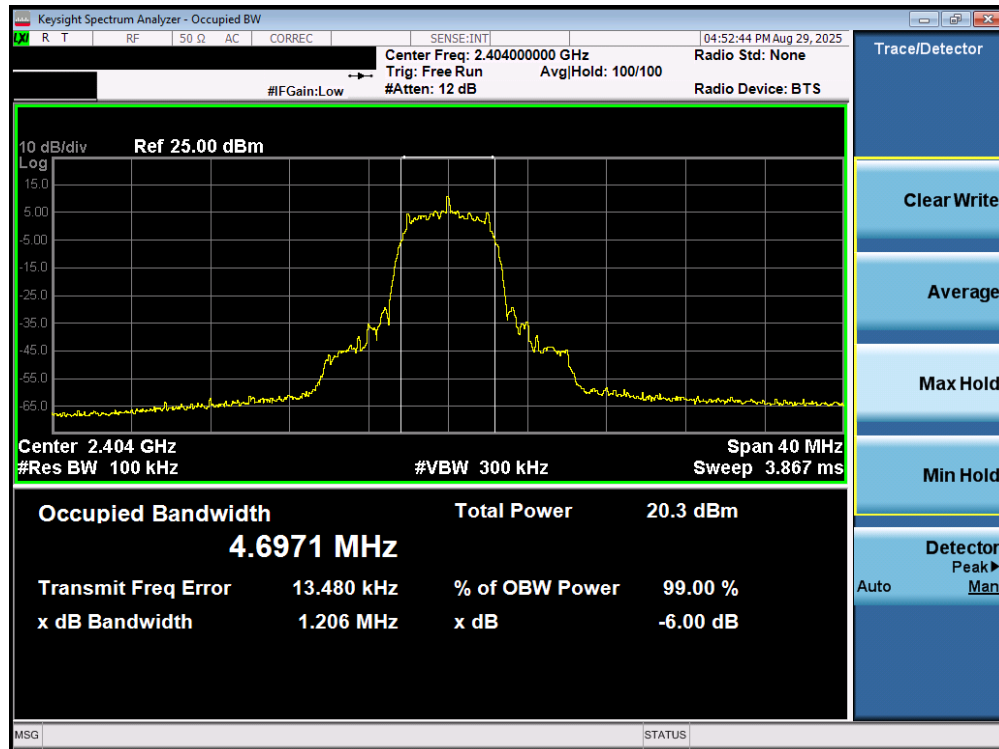


Plot 7-12. 6dB BW & 99% OBW Plot Antenna 4a (Bluetooth (XHDRPM6), 6Mbps, ePA – Ch. 73)

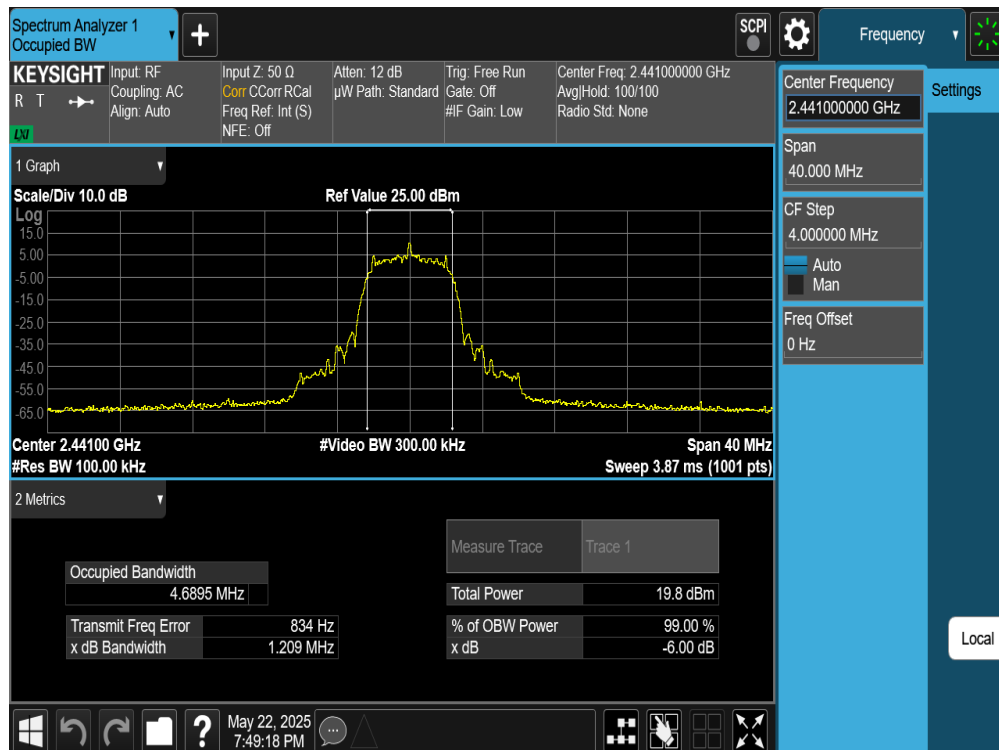
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Plot 7-13. 6dB BW & 99% OBW Plot Antenna 4a (Bluetooth (HDRPM16), 16Mbps, ePA – Ch. 1)

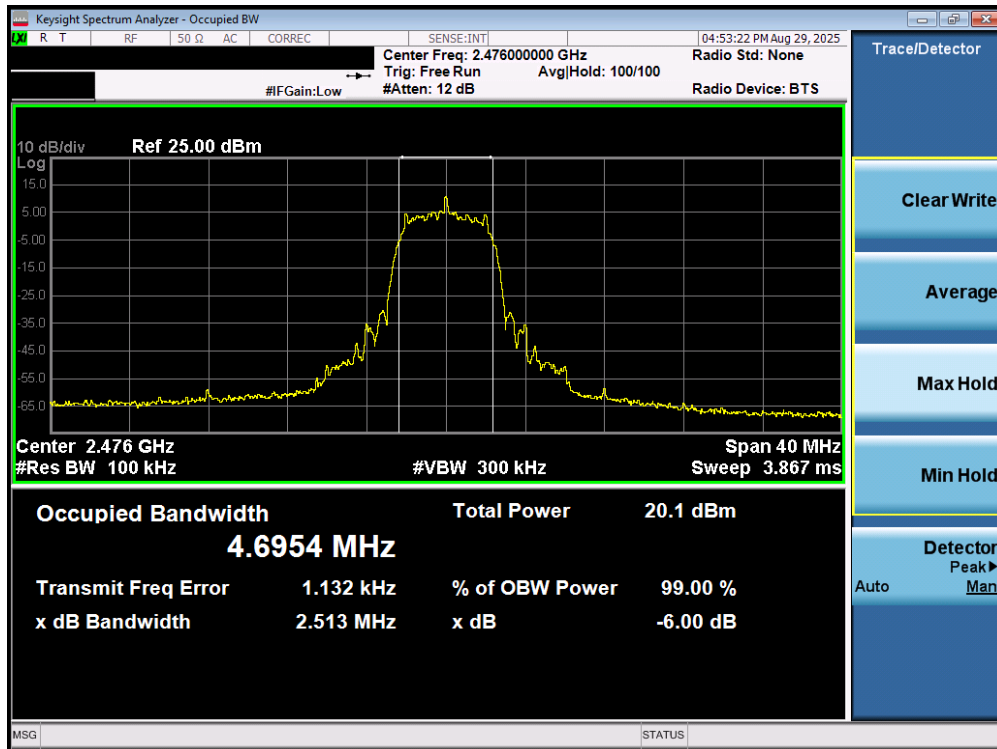


Plot 7-14. 6dB BW & 99% OBW Plot Antenna 4a (Bluetooth (HDRPM16), 16Mbps, ePA – Ch. 38)

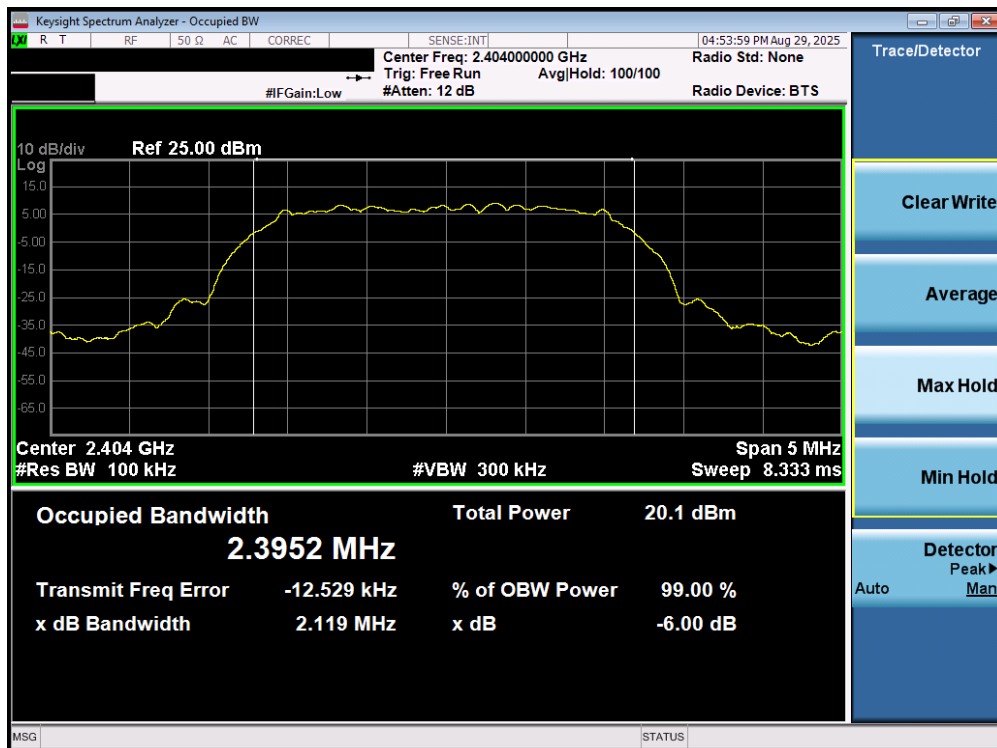
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Plot 7-15. 6dB BW & 99% OBW Plot Antenna 4a (Bluetooth (HDRPM16), 16Mbps, ePA – Ch. 73)

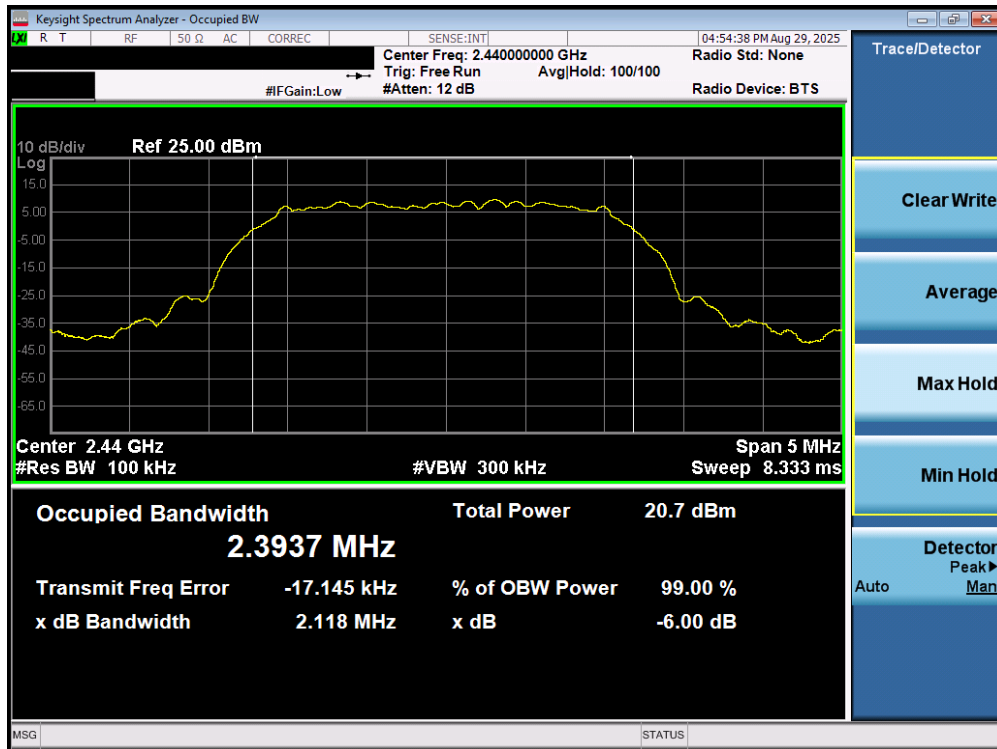


Plot 7-16. 6dB BW & 99% OBW Plot Antenna 4a (Bluetooth (HDT2), 2Mbps, ePA – Ch. 1)

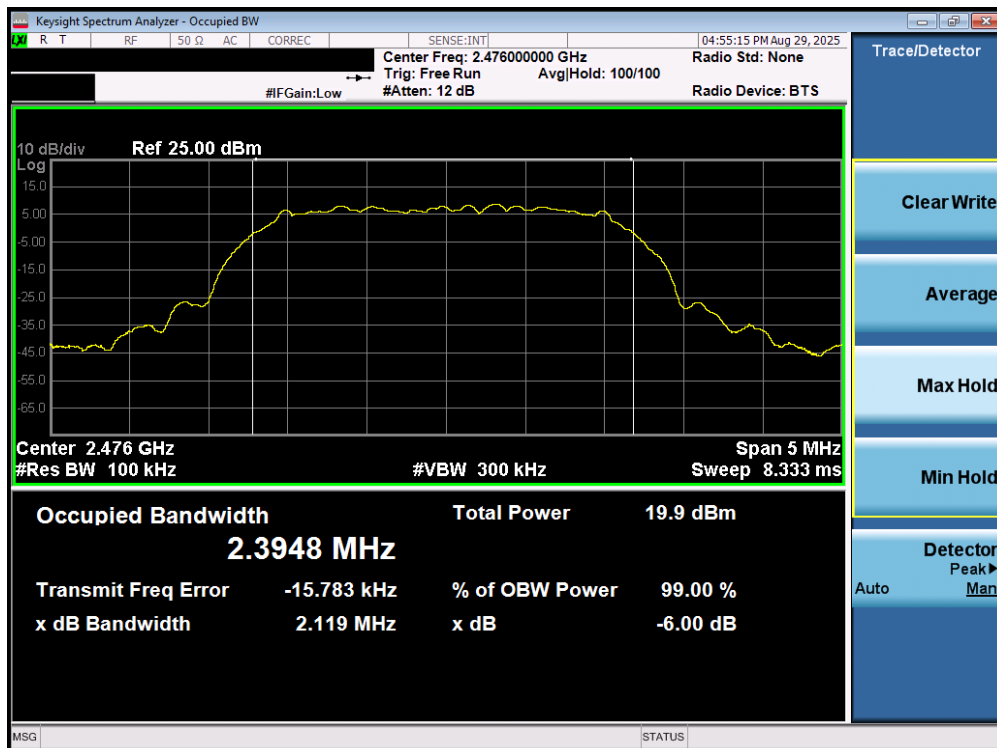
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Plot 7-17. 6dB BW & 99% OBW Plot Antenna 4a (Bluetooth (HDT2), 2Mbps, ePA – Ch. 37)



Plot 7-18. 6dB BW & 99% OBW Plot Antenna 4a (Bluetooth (HDT2), 2Mbps, ePA – Ch. 73)

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7.2.2 Antenna 2a

Frequency [MHz]	Mode	Power Scheme	Channel	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass/Fail
2404	HDR4	ePA	1	2.354	1.763	0.50	Pass
2441	HDR4	ePA	38	2.352	1.672	0.50	Pass
2476	HDR4	ePA	73	2.354	1.585	0.50	Pass
2404	HDR8	ePA	1	4.639	0.565	0.50	Pass
2441	HDR8	ePA	38	4.647	0.876	0.50	Pass
2476	HDR8	ePA	73	4.647	0.565	0.50	Pass
2404	HDRPS2	ePA	1	2.381	2.096	0.50	Pass
2441	HDRPS2	ePA	38	2.377	2.094	0.50	Pass
2476	HDRPS2	ePA	73	2.378	2.103	0.50	Pass
2404	XHDRPM6	ePA	1	4.720	4.063	0.50	Pass
2441	XHDRPM6	ePA	38	4.713	4.066	0.50	Pass
2476	XHDRPM6	ePA	73	4.722	4.065	0.50	Pass
2404	HDRPM16	ePA	1	4.693	1.225	0.50	Pass
2441	HDRPM16	ePA	38	4.694	4.017	0.50	Pass
2476	HDRPM16	ePA	73	4.695	1.217	0.50	Pass
2404	HDT2	ePA	1	2.396	2.119	0.50	Pass
2440	HDT2	ePA	37	2.395	2.120	0.50	Pass
2476	HDT2	ePA	73	2.396	2.120	0.50	Pass

Table 7-3. 6dB BW & 99% OBW Measurements Antenna 2a

FCC ID: BCGA3358 IC: 579C-A3358		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Spectrum Analyzer 1
 Occupied BW

KEYSIGHT Input: RF
 Coupling: AC
 Align: Auto

Input Z: 50 Ω
 Corr: C Corr: R Cal
 Freq Ref: Int (S)
 NFE: Off

Atten: 12 dB
 μ W Path: Standard

Trig: Free Run
 Gate: Off
 #IF Gain: Low

Center Freq: 2.441000000 GHz
 Avg/Hold: 100/100
 Radio Std: None

1 Graph
 Scale/Div 10.0 dB
 Log
 15.0
 5.00
 -5.00
 -15.0
 -25.0
 -35.0
 -45.0
 -55.0
 -65.0

Ref Value 25.00 dBm

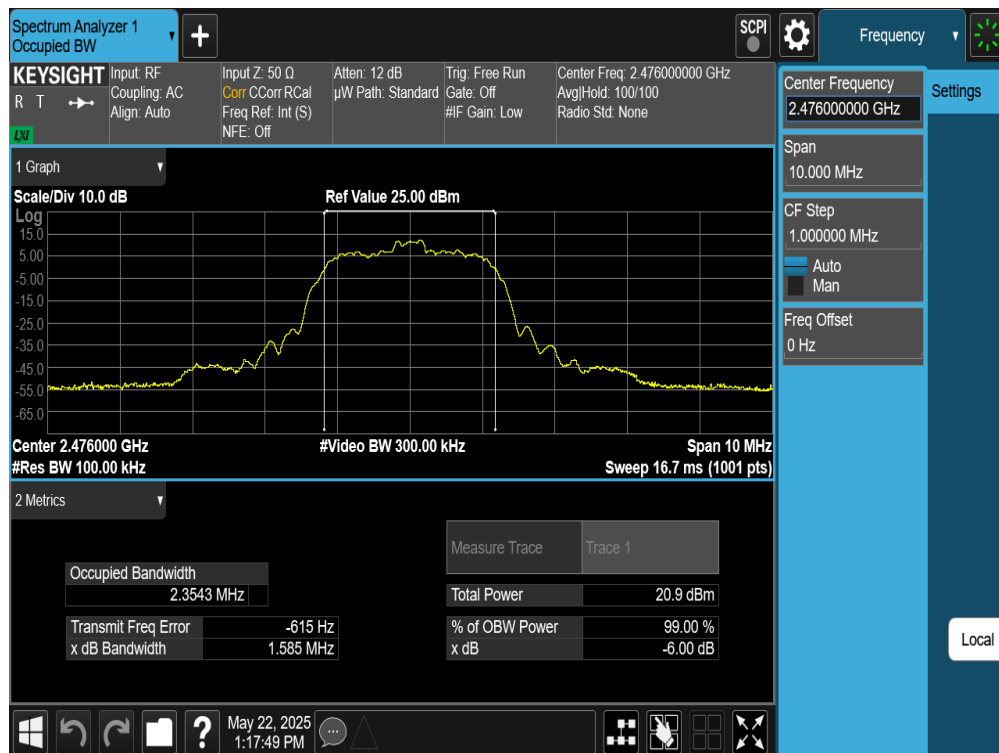
Center 2.441000 GHz
 #Res BW 100.00 kHz
 Span 10 MHz
 Sweep 16.7 ms (1001 pts)

2 Metrics

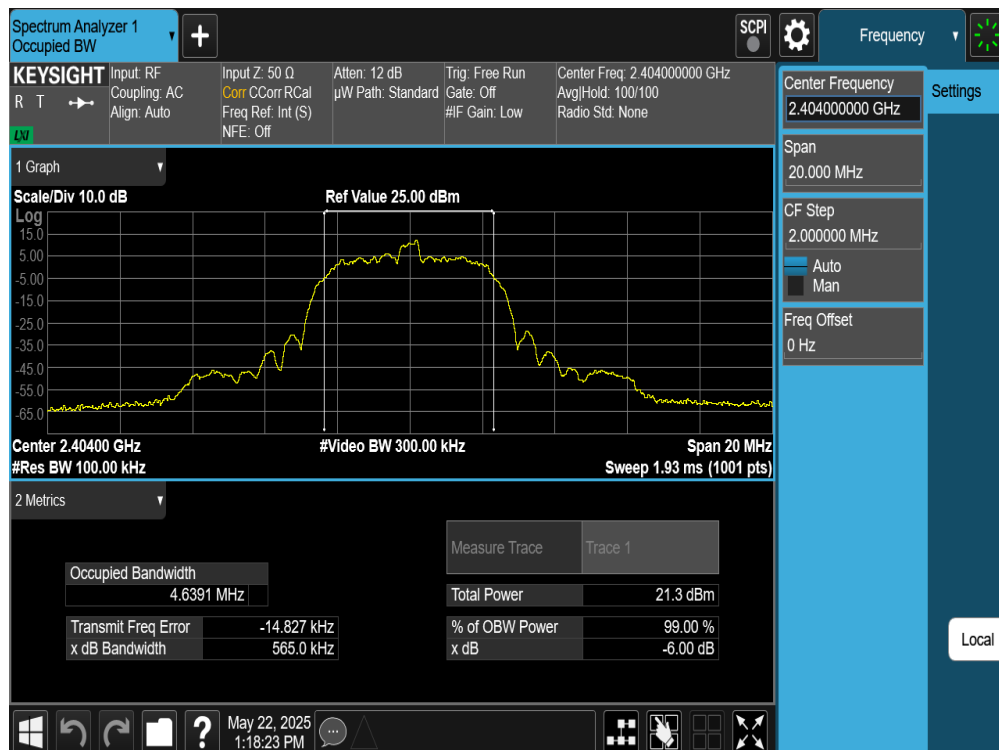
Occupied Bandwidth		Measure Trace	
2.3520 MHz		Trace 1	
Transmit Freq Error	-5.035 kHz	Total Power	19.8 dBm
x dB Bandwidth	1.672 MHz	% of OBW Power	99.00 %
		x dB	-6.00 dB

Settings
 Center Frequency
 2.441000000 GHz
 Span
 10.000 MHz
 CF Step
 1.000000 MHz
 Auto
 Man
 Freq Offset
 0 Hz

FCC ID: BCGA3358 IC: 579C-A3358	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-21. 6dB BW & 99% OBW Plot Antenna 2a (Bluetooth (HDR4), 4Mbps, ePA – Ch. 73)

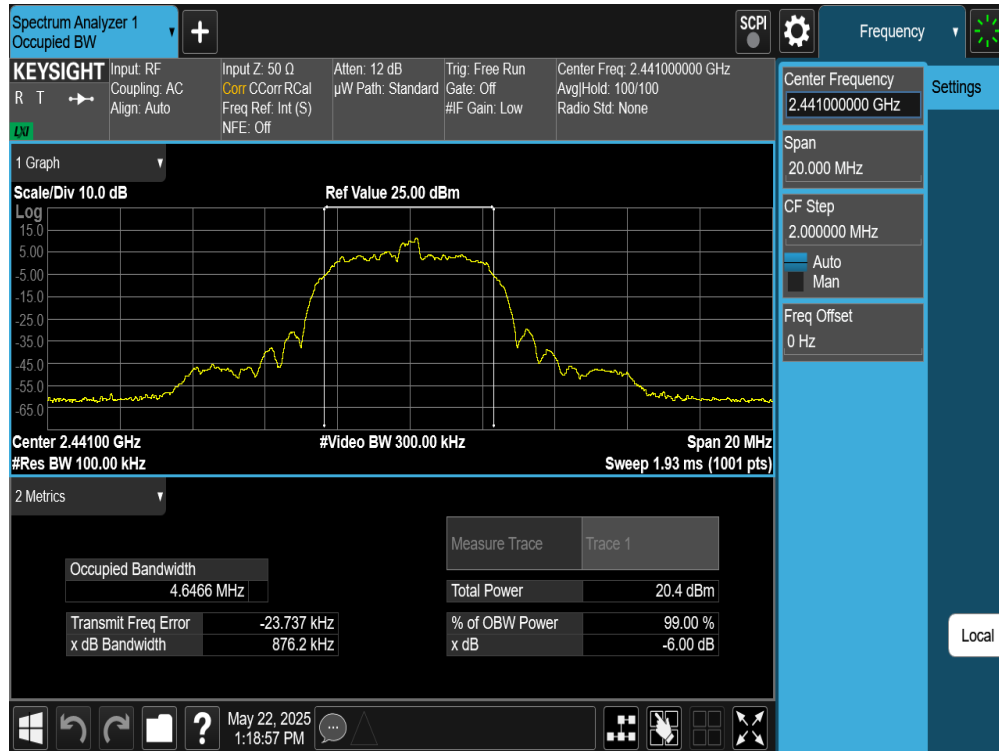


Plot 7-22. 6dB BW & 99% OBW Plot Antenna 2a (Bluetooth (HDR8), 8Mbps, ePA – Ch. 1)

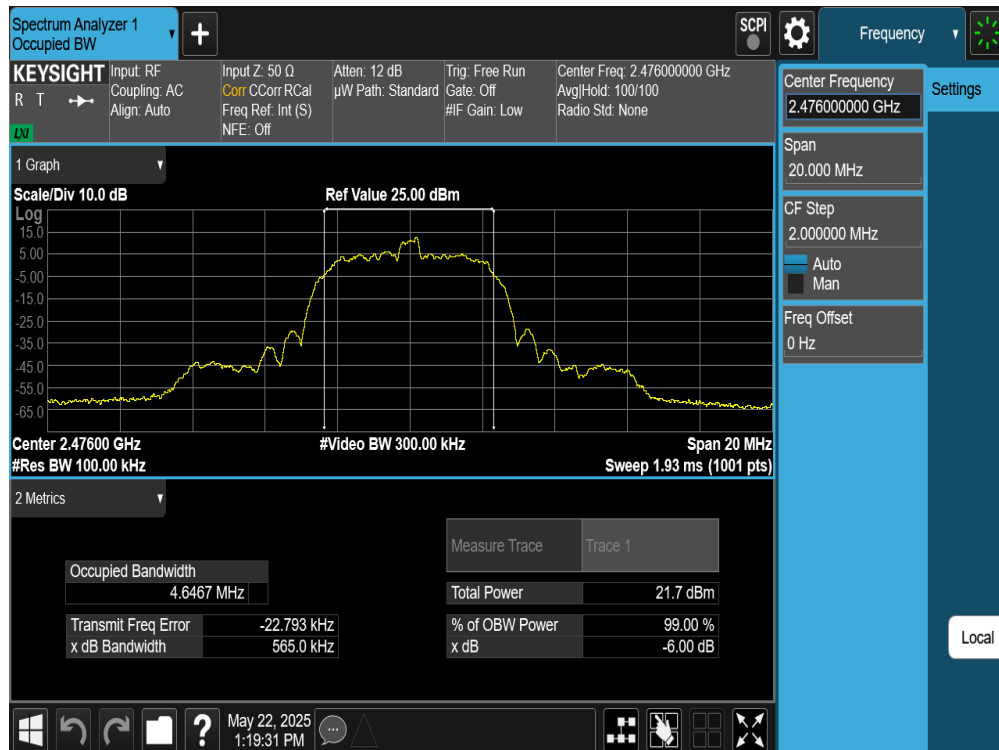
FCC ID: BCGA3358 IC: 579C-A3358		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170039-16-R1.BCG	Test Dates: 05/12/2025 - 08/29/2025	EUT Type: Tablet Device	Page 31 of 205

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Plot 7-23. 6dB BW & 99% OBW Plot Antenna 2a (Bluetooth (HDR8), 8Mbps, ePA – Ch. 38)

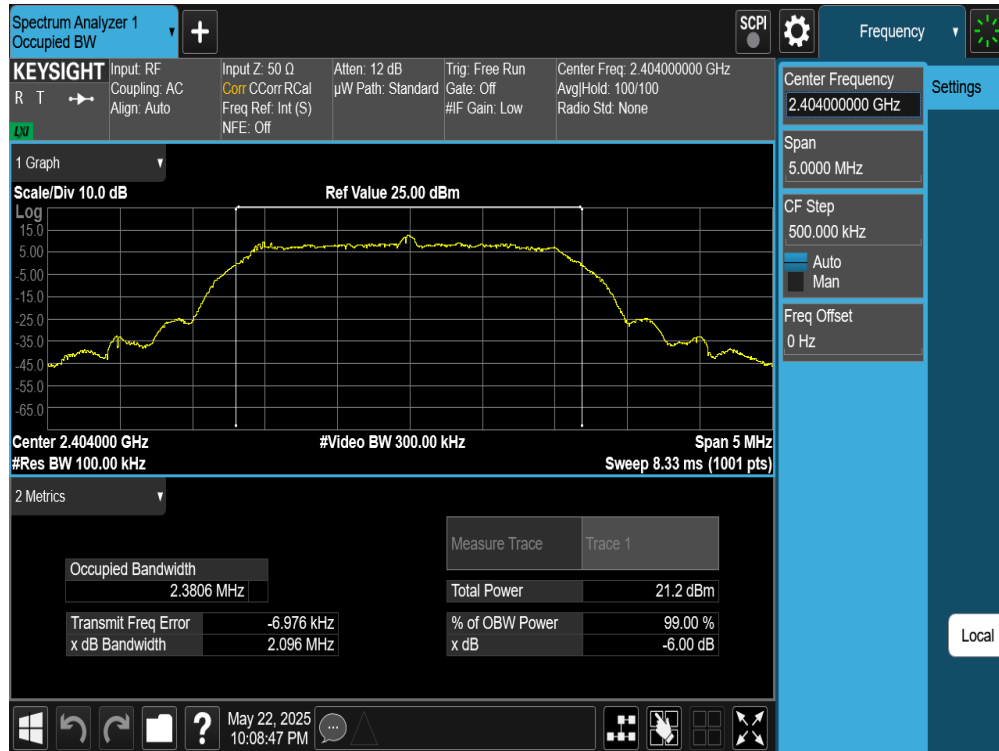


Plot 7-24. 6dB BW & 99% OBW Plot Antenna 2a (Bluetooth (HDR8), 8Mbps, ePA – Ch. 73)

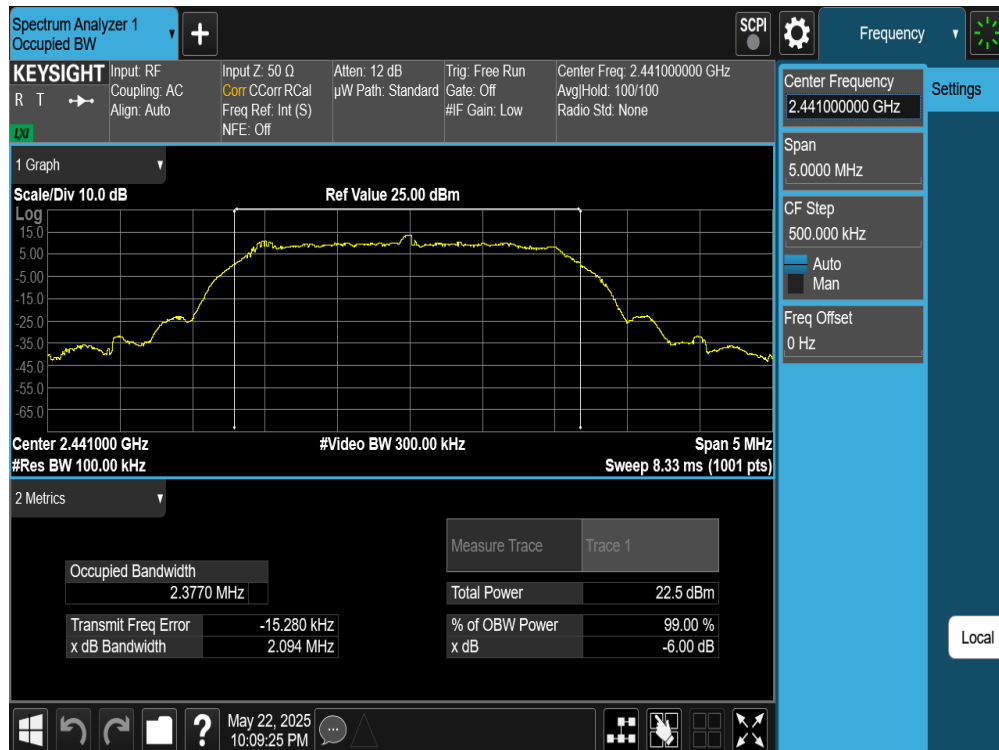
FCC ID: BCGA3358 IC: 579C-A3358		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-25. 6dB BW & 99% OBW Plot Antenna 2a (Bluetooth (HDRPS2), 2Mbps, ePA – Ch. 1)



Plot 7-26. 6dB BW & 99% OBW Plot Antenna 2a (Bluetooth (HDRPS2), 2Mbps, ePA – Ch. 38)

FCC ID: BCGA3358 IC: 579C-A3358		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Keysight Spectrum Analyzer - Occupied BW

04:57:36 PM Aug 29, 2025

R T RF 50 Ω AC CORREC SENSE:INT

Center Freq: 2.404000000 GHz Radio Std: None
Trig: Free Run Avg/Hold: 100/100
#FGain:Low #Atten: 12 dB Radio Device: BTS

10 dB/div Ref 25.00 dBm

Log

Center 2.404 GHz Span 15 MHz
#Res BW 100 kHz #VBW 300 kHz Sweep 1.467 ms

Occupied Bandwidth		Total Power	
4.7196 MHz		21.7 dBm	
Transmit Freq Error	-9.967 kHz	% of OBW Power	99.00 %
x dB Bandwidth	4.063 MHz	x dB	-6.00 dB

MSG STATUS

Trace/Detector

Clear Write

Average

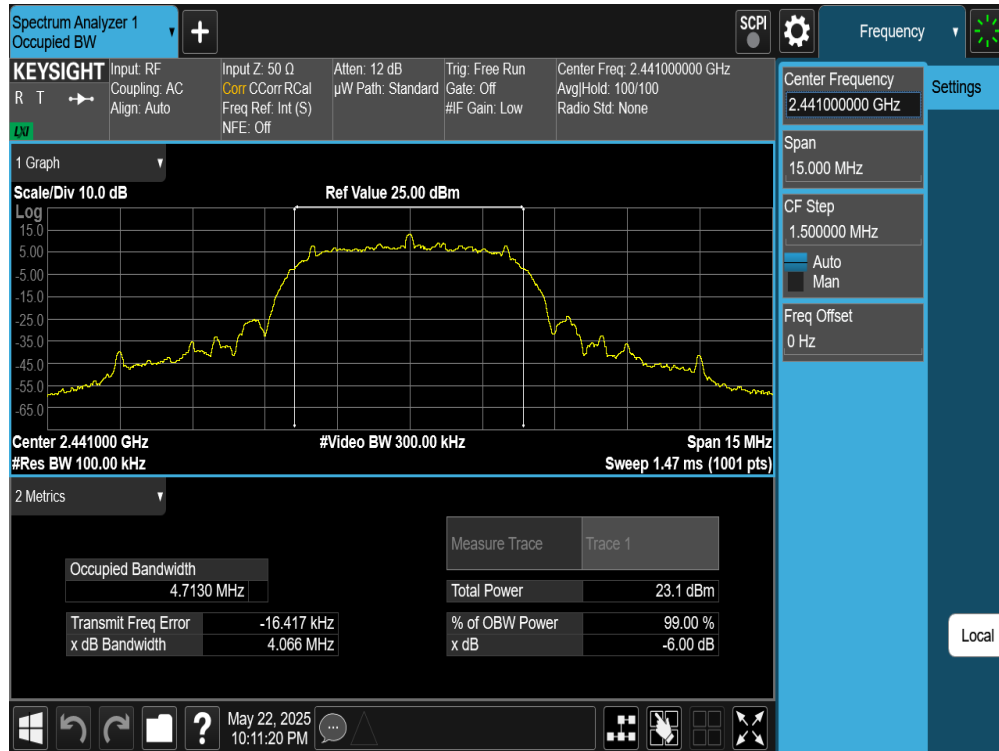
Max Hold

Min Hold

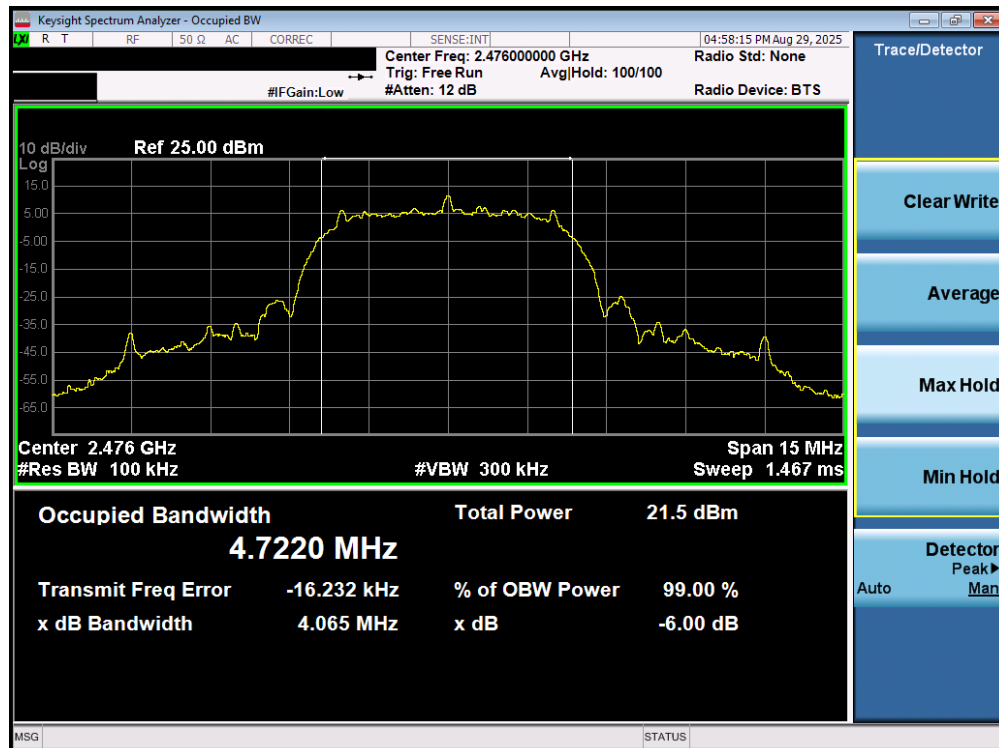
Detector

Auto Peak Man

FCC ID: BCGA3358 IC: 579C-A3358	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-29. 6dB BW & 99% OBW Plot Antenna 2a (Bluetooth (XHDRPM6), 6Mbps, ePA – Ch. 38)

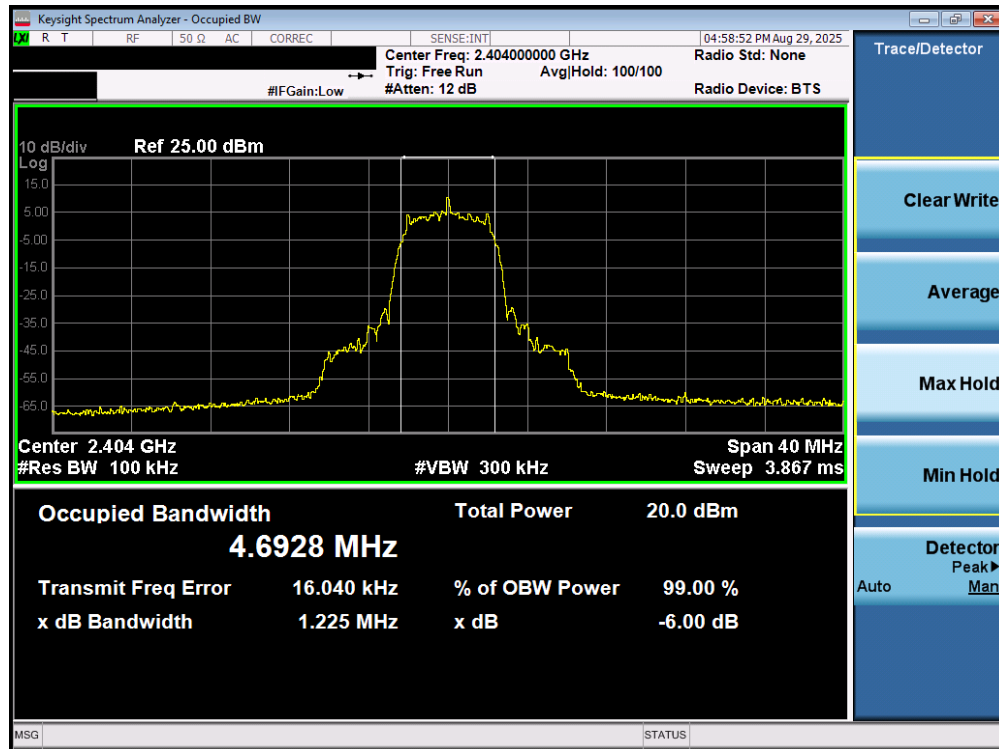


Plot 7-30. 6dB BW & 99% OBW Plot Antenna 2a (Bluetooth (XHDRPM6), 6Mbps, ePA – Ch. 73)

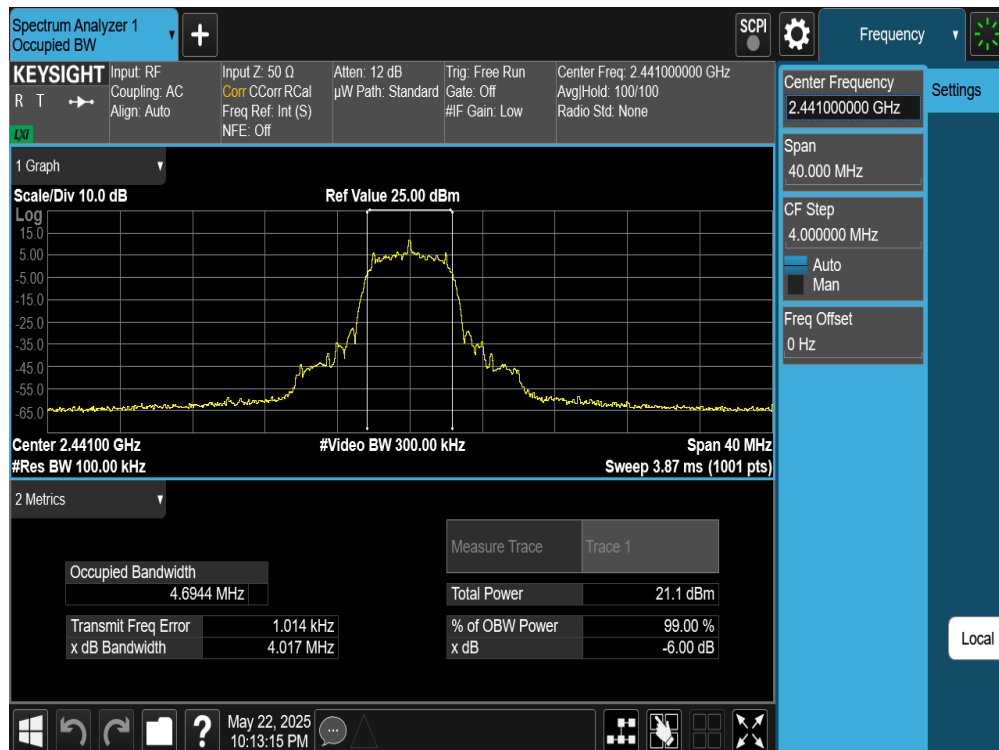
FCC ID: BCGA3358 IC: 579C-A3358	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170039-16-R1.BCG	Test Dates: 05/12/2025 - 08/29/2025	EUT Type: Tablet Device	Page 35 of 205

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Plot 7-31. 6dB BW & 99% OBW Plot Antenna 2a (Bluetooth (HDRPM16), 16Mbps, ePA – Ch. 1)

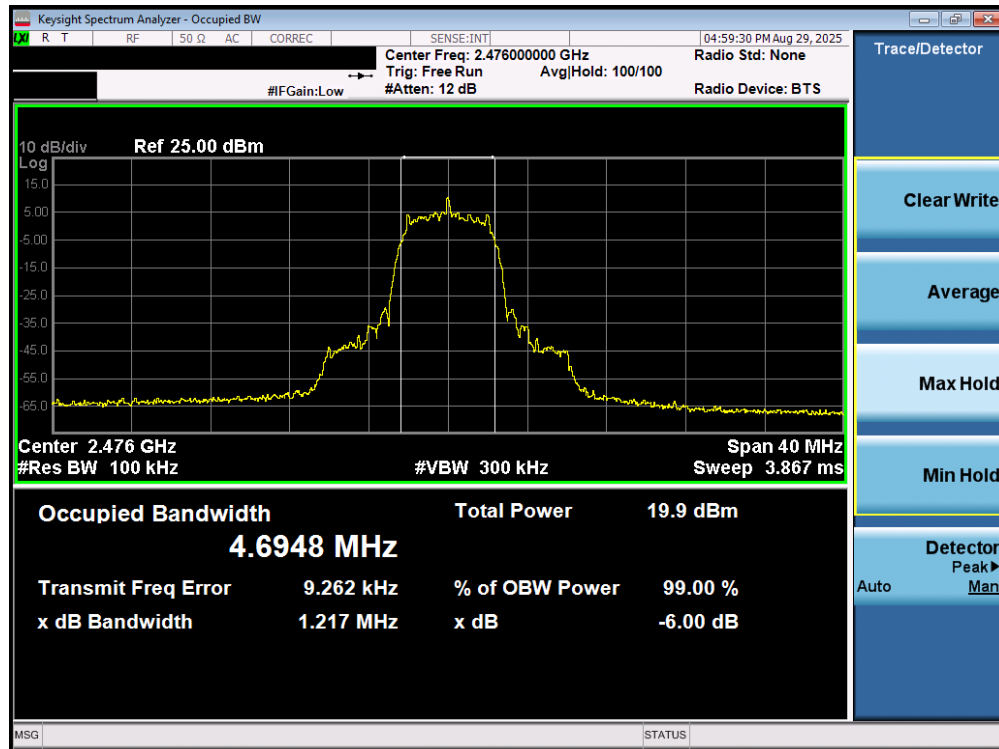


Plot 7-32. 6dB BW & 99% OBW Plot Antenna 2a (Bluetooth (HDRPM16), 16Mbps, ePA – Ch. 38)

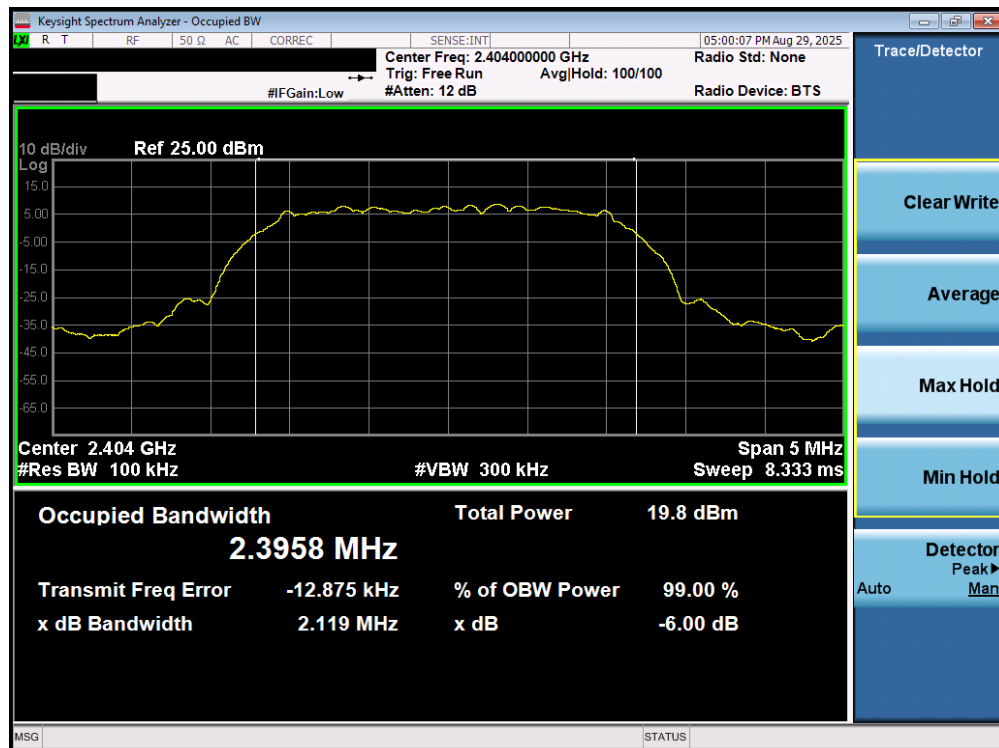
FCC ID: BCGA3358 IC: 579C-A3358		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-33. 6dB BW & 99% OBW Plot Antenna 2a (Bluetooth (HDRPM16), 16Mbps, ePA – Ch. 73)

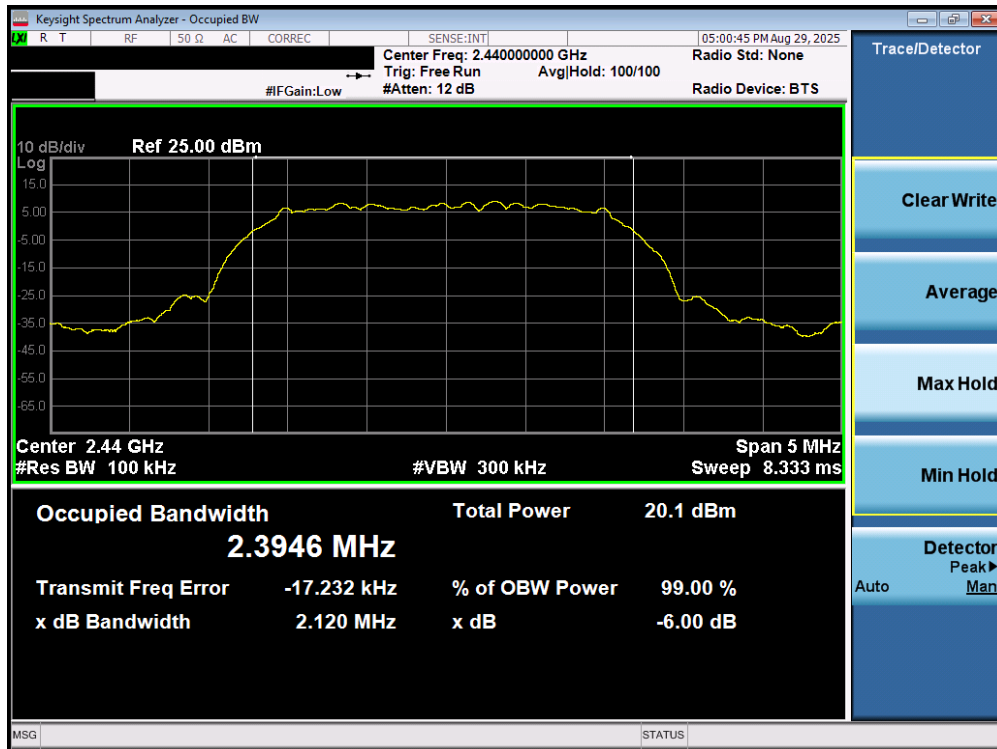


Plot 7-34. 6dB BW & 99% OBW Plot Antenna 2a (Bluetooth (HDT2), 2Mbps, ePA – Ch. 1)

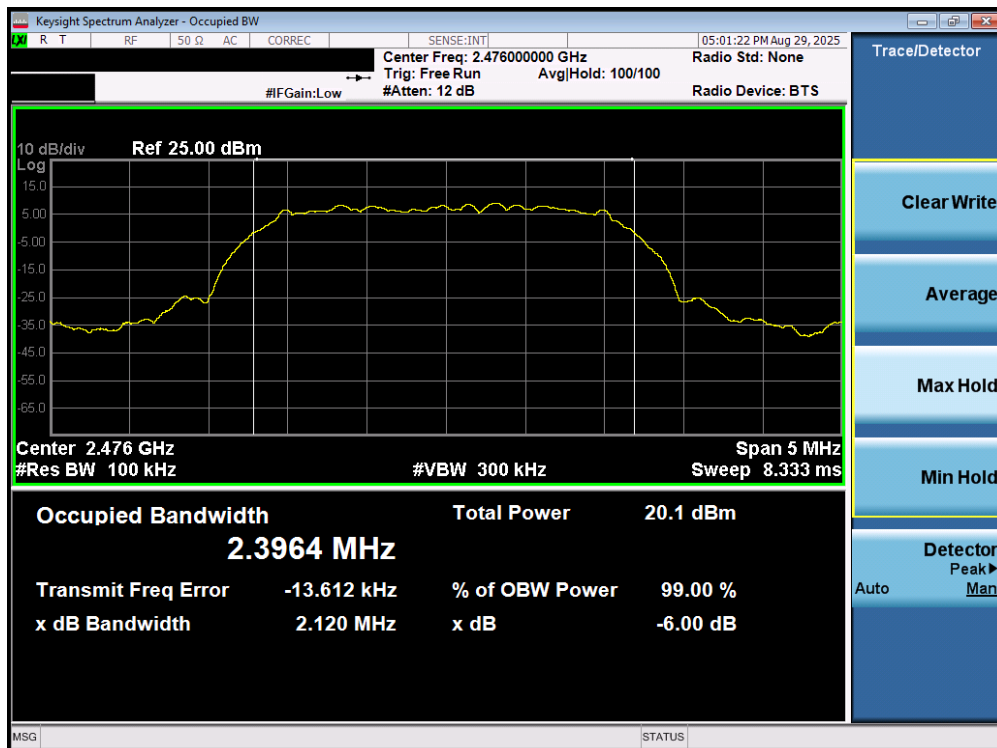
FCC ID: BCGA3358 IC: 579C-A3358		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-35. 6dB BW & 99% OBW Plot Antenna 2a (Bluetooth (HDT2), 2Mbps, ePA – Ch. 37)



Plot 7-36. 6dB BW & 99% OBW Plot Antenna 2a (Bluetooth (HDT2), 2Mbps, ePA – Ch. 73)

FCC ID: BCGA3358 IC: 579C-A3358	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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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.

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 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)
 ANSI C63.10-2020 – Subclause 14.4 Measure-and-Sum Technique
 KDB 662911 D01 v02r01 – Section E)1) Measure-and-Sum Technique

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

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7.3.1 Peak Output Power Measurement – Bluetooth (HDR)

Frequency [MHz]	Mode	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]						
2404	HDR4	ePA	1	14.93	31.117	30.00	-15.07	2.40	17.33	36.02	-18.69
2441	HDR4	ePA	38	14.50	28.184	30.00	-15.50	2.40	16.90	36.02	-19.12
2476	HDR4	ePA	73	14.66	29.242	30.00	-15.34	2.40	17.06	36.02	-18.96
2404	HDR4	iPA	1	7.86	6.109	30.00	-22.14	2.40	10.26	36.02	-25.76
2441	HDR4	iPA	38	8.14	6.516	30.00	-21.86	2.40	10.54	36.02	-25.48
2476	HDR4	iPA	73	7.66	5.702	30.00	-22.44	2.40	9.96	36.02	-26.06
2404	HDR8	ePA	1	15.53	35.727	30.00	-14.47	2.40	17.93	36.02	-18.09
2441	HDR8	ePA	38	15.72	37.325	30.00	-14.28	2.40	18.12	36.02	-17.90
2476	HDR8	ePA	73	15.34	34.198	30.00	-14.66	2.40	17.74	36.02	-18.28
2404	HDR8	iPA	1	8.54	7.145	30.00	-21.46	2.40	10.94	36.02	-25.08
2441	HDR8	iPA	38	8.54	7.145	30.00	-21.46	2.40	10.94	36.02	-25.08
2476	HDR8	iPA	73	8.46	7.015	30.00	-21.54	2.40	10.86	36.02	-25.16
2404	HDRPS2	ePA	1	15.92	39.084	30.00	-14.08	2.40	18.32	36.02	-17.70
2441	HDRPS2	ePA	38	15.65	36.728	30.00	-14.35	2.40	18.05	36.02	-17.97
2476	HDRPS2	ePA	73	15.78	37.844	30.00	-14.22	2.40	18.18	36.02	-17.84
2404	HDRPS2	iPA	1	8.69	7.396	30.00	-21.31	2.40	11.09	36.02	-24.93
2441	HDRPS2	iPA	38	8.41	6.934	30.00	-21.59	2.40	10.81	36.02	-25.21
2476	HDRPS2	iPA	73	8.38	6.887	30.00	-21.62	2.40	10.78	36.02	-25.24
2404	XHDRPM6	ePA	1	16.32	42.855	30.00	-13.68	2.40	18.72	36.02	-17.30
2441	XHDRPM6	ePA	38	16.06	40.365	30.00	-13.94	2.40	18.46	36.02	-17.56
2476	XHDRPM6	ePA	73	15.76	37.670	30.00	-14.24	2.40	18.16	36.02	-17.86
2404	XHDRPM6	iPA	1	9.02	7.980	30.00	-20.98	2.40	11.42	36.02	-24.60
2441	XHDRPM6	iPA	38	8.85	7.674	30.00	-21.15	2.40	11.25	36.02	-24.77
2476	XHDRPM6	iPA	73	8.72	7.447	30.00	-21.28	2.40	11.12	36.02	-24.90
2404	HDRPM16	ePA	1	15.54	35.810	30.00	-14.46	2.40	17.94	36.02	-18.08
2441	HDRPM16	ePA	38	15.81	38.107	30.00	-14.19	2.40	18.21	36.02	-17.81
2476	HDRPM16	ePA	73	15.42	34.834	30.00	-14.58	2.40	17.82	36.02	-18.20
2404	HDRPM16	iPA	1	7.37	5.458	30.00	-22.63	2.40	9.77	36.02	-26.25
2441	HDRPM16	iPA	38	7.75	5.957	30.00	-22.25	2.40	10.15	36.02	-25.87
2476	HDRPM16	iPA	73	7.51	5.636	30.00	-22.49	2.40	9.91	36.02	-26.11
2404	HDT2	ePA	1	15.13	32.584	30.00	-14.87	2.40	17.53	36.02	-18.49
2440	HDT2	ePA	37	15.35	34.277	30.00	-14.65	2.40	17.75	36.02	-18.27
2476	HDT2	ePA	73	15.01	31.696	30.00	-14.99	2.40	17.41	36.02	-18.61
2404	HDT2	iPA	1	8.29	6.745	30.00	-21.71	2.40	10.69	36.02	-25.33
2440	HDT2	iPA	37	8.04	6.368	30.00	-21.96	2.40	10.44	36.02	-25.58
2476	HDT2	iPA	73	8.38	6.887	30.00	-21.62	2.40	10.78	36.02	-25.24

Table 7-4. Peak Conducted Output Power Measurements Antenna 4a (Bluetooth HDR)

FCC ID: BCGA3358 IC: 579C-A3358	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Frequency [MHz]	Mode	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]						
2404	HDR4	ePA	1	15.67	36.898	30.00	-14.33	1.70	17.37	36.02	-18.65
2441	HDR4	ePA	38	15.37	34.435	30.00	-14.63	1.70	17.07	36.02	-18.95
2476	HDR4	ePA	73	15.63	36.559	30.00	-14.37	1.70	17.33	36.02	-18.69
2404	HDR4	iPA	1	7.15	5.188	30.00	-22.86	1.70	8.85	36.02	-27.18
2441	HDR4	iPA	38	7.24	5.297	30.00	-22.77	1.70	8.94	36.02	-27.09
2476	HDR4	iPA	73	7.08	5.105	30.00	-22.92	1.70	8.78	36.02	-27.24
2404	HDR8	ePA	1	15.12	32.509	30.00	-14.88	1.70	16.82	36.02	-19.20
2441	HDR8	ePA	38	15.42	34.834	30.00	-14.59	1.70	17.12	36.02	-18.91
2476	HDR8	ePA	73	15.62	36.475	30.00	-14.38	1.70	17.32	36.02	-18.70
2404	HDR8	iPA	1	6.97	4.977	30.00	-23.04	1.70	8.67	36.02	-27.36
2441	HDR8	iPA	38	7.14	5.176	30.00	-22.86	1.70	8.84	36.02	-27.18
2476	HDR8	iPA	73	7.05	5.070	30.00	-22.95	1.70	8.75	36.02	-27.27
2404	HDRPS2	ePA	1	15.99	39.719	30.00	-14.01	1.70	17.69	36.02	-18.33
2441	HDRPS2	ePA	38	16.15	41.210	30.00	-13.85	1.70	17.85	36.02	-18.17
2476	HDRPS2	ePA	73	16.29	42.560	30.00	-13.71	1.70	17.99	36.02	-18.03
2404	HDRPS2	iPA	1	7.56	5.702	30.00	-22.44	1.70	9.26	36.02	-26.76
2441	HDRPS2	iPA	38	7.82	6.053	30.00	-22.18	1.70	9.52	36.02	-26.50
2476	HDRPS2	iPA	73	7.64	5.808	30.00	-22.36	1.70	9.34	36.02	-26.68
2404	XHDRPM6	ePA	1	16.47	44.361	30.00	-13.53	1.70	18.17	36.02	-17.85
2441	XHDRPM6	ePA	38	16.62	45.920	30.00	-13.38	1.70	18.32	36.02	-17.70
2476	XHDRPM6	ePA	73	16.29	42.560	30.00	-13.71	1.70	17.99	36.02	-18.03
2404	XHDRPM6	iPA	1	7.94	6.223	30.00	-22.06	1.70	9.64	36.02	-26.38
2441	XHDRPM6	iPA	38	7.73	5.929	30.00	-22.27	1.70	9.43	36.02	-26.59
2476	XHDRPM6	iPA	73	7.87	6.124	30.00	-22.13	1.70	9.57	36.02	-26.45
2404	HDRPM16	ePA	1	16.24	42.073	30.00	-13.76	1.70	17.94	36.02	-18.08
2441	HDRPM16	ePA	38	16.34	43.053	30.00	-13.66	1.70	18.04	36.02	-17.98
2476	HDRPM16	ePA	73	16.03	40.087	30.00	-13.97	1.70	17.73	36.02	-18.29
2404	HDRPM16	iPA	1	6.31	4.276	30.00	-23.69	1.70	8.01	36.02	-28.01
2441	HDRPM16	iPA	38	6.52	4.487	30.00	-23.48	1.70	8.22	36.02	-27.80
2476	HDRPM16	iPA	73	6.61	4.581	30.00	-23.39	1.70	8.31	36.02	-27.71
2404	HDT2	ePA	1	15.59	36.224	30.00	-14.41	1.70	17.29	36.02	-18.73
2440	HDT2	ePA	37	15.75	37.584	30.00	-14.25	1.70	17.45	36.02	-18.57
2476	HDT2	ePA	73	15.92	39.084	30.00	-14.08	1.70	17.62	36.02	-18.40
2404	HDT2	iPA	1	7.20	5.248	30.00	-22.80	1.70	8.90	36.02	-27.12
2440	HDT2	iPA	37	6.96	4.966	30.00	-23.04	1.70	8.66	36.02	-27.36
2476	HDT2	iPA	73	7.00	5.012	30.00	-23.00	1.70	8.70	36.02	-27.32

Table 7-5. Peak Conducted Output Power Measurements Antenna 2a (Bluetooth HDR)

Frequency [MHz]	Mode	Power Scheme	Channel No.	Peak Conducted Power						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	EIRP Margin [dB]
				Antenna 4a		Antenna 2a		Summed							
				[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]						
2404	HDR4	ePA	1	14.88	30.761	15.15	32.734	18.03	63.533	30.00	-11.97	5.07	23.10	36.02	-12.92
2441	HDR4	ePA	38	14.40	27.542	15.31	33.963	17.89	61.518	30.00	-12.11	5.07	22.96	36.02	-13.06
2476	HDR4	ePA	73	14.57	28.642	14.98	31.477	17.79	60.117	30.00	-12.21	5.07	22.86	36.02	-13.16
2404	HDR4	iPA	1	7.33	5.408	7.09	5.117	10.22	10.520	30.00	-19.78	5.07	15.29	36.02	-20.73
2441	HDR4	iPA	38	8.57	7.194	7.18	5.224	10.94	12.417	30.00	-19.06	5.07	16.01	36.02	-20.01
2476	HDR4	iPA	73	7.99	6.295	7.04	5.058	10.55	11.350	30.00	-19.45	5.07	15.62	36.02	-20.40
2404	HDR8	ePA	1	14.92	31.046	15.62	36.475	18.29	67.453	30.00	-11.71	5.07	23.36	36.02	-12.66
2441	HDR8	ePA	38	14.68	29.376	15.36	34.356	18.04	63.680	30.00	-11.96	5.07	23.11	36.02	-12.91
2476	HDR8	ePA	73	14.81	30.269	15.58	36.141	18.22	66.374	30.00	-11.78	5.07	23.29	36.02	-12.73
2404	HDR8	iPA	1	7.70	5.888	6.90	4.898	10.33	10.789	30.00	-19.67	5.07	15.40	36.02	-20.62
2441	HDR8	iPA	38	7.45	5.559	7.08	5.105	10.28	10.666	30.00	-19.72	5.07	15.35	36.02	-20.67
2476	HDR8	iPA	73	7.94	6.223	6.61	4.581	10.33	10.789	30.00	-19.67	5.07	15.40	36.02	-20.62
2404	HDRPS2	ePA	1	15.86	38.548	15.93	39.174	18.91	77.804	30.00	-11.09	5.07	23.98	36.02	-12.04
2441	HDRPS2	ePA	38	15.58	36.141	16.07	40.458	18.84	76.560	30.00	-11.16	5.07	23.91	36.02	-12.11
2476	HDRPS2	ePA	73	15.72	37.325	16.22	41.879	18.99	79.250	30.00	-11.01	5.07	24.06	36.02	-11.96
2404	HDRPS2	iPA	1	8.64	7.311	7.50	5.623	11.12	12.942	30.00	-18.88	5.07	16.19	36.02	-19.83
2441	HDRPS2	iPA	38	8.84	7.656	7.74	5.943	11.34	13.614	30.00	-18.66	5.07	16.41	36.02	-19.61
2476	HDRPS2	iPA	73	8.82	7.621	7.59	5.741	11.26	13.366	30.00	-18.74	5.07	16.33	36.02	-19.69
2404	XHDRPM6	ePA	1	15.79	37.931	16.43	43.954	19.13	81.846	30.00	-10.87	5.07	24.20	36.02	-11.82
2441	XHDRPM6	ePA	38	16.02	39.994	16.57	45.394	19.31	85.310	30.00	-10.69	5.07	24.38	36.02	-11.64
2476	XHDRPM6	ePA	73	16.25	42.170	16.25	42.170	19.26	84.333	30.00	-10.74	5.07	24.33	36.02	-11.69
2404	XHDRPM6	iPA	1	8.98	7.907	7.91	6.180	11.49	14.093	30.00	-18.51	5.07	16.56	36.02	-19.46
2441	XHDRPM6	iPA	38	8.79	7.568	7.69	5.875	11.29	13.459	30.00	-18.71	5.07	16.36	36.02	-19.66
2476	XHDRPM6	iPA	73	9.20	8.318	7.81	6.039	11.57	14.355	30.00	-18.43	5.07	16.64	36.02	-19.38
2404	HDRPM16	ePA	1	15.51	35.563	16.20	41.687	18.88	77.268	30.00	-11.12	5.07	23.95	36.02	-12.07
2441	HDRPM16	ePA	38	15.80	38.019	16.26	42.267	19.05	80.353	30.00	-10.95	5.07	24.12	36.02	-11.90
2476	HDRPM16	ePA	73	15.40	34.674	15.96	39.446	18.70	74.131	30.00	-11.30	5.07	23.77	36.02	-12.25
2404	HDRPM16	iPA	1	7.31	5.383	6.25	4.217	9.82	9.594	30.00	-20.18	5.07	14.89	36.02	-21.13
2441	HDRPM16	iPA	38	7.69	5.875	6.47	4.436	10.13	10.304	30.00	-19.87	5.07	15.20	36.02	-20.82
2476	HDRPM16	iPA	73	7.44	5.546	6.55	4.519	10.03	10.069	30.00	-19.97	5.07	15.10	36.02	-20.92
2404	HDT2	ePA	1	15.08	32.211	16.05	40.272	18.60	72.444	30.00	-11.40	5.07	23.67	36.02	-12.35
2440	HDT2	ePA	37	15.33	34.119	15.69	37.068	18.52	71.121	30.00	-11.48	5.07	23.59	36.02	-12.43
2476	HDT2	ePA	73	15.53	35.727	15.86	38.548	18.71	74.302	30.00	-11.29	5.07	23.78	36.02	-12.24
2404	HDT2	iPA	1	8.25	6.683	7.16	5.200	10.75	11.885	30.00	-19.25	5.07	15.82	36.02	-20.20
2440	HDT2	iPA	37	7.98	6.281	7.46	5.572	10.74	11.858	30.00	-19.28	5.07	15.81	36.02	-20.21
2476	HDT2	iPA	73	8.33	6.808	7.56	5.702	10.97	12.503	30.00	-19.03	5.07	16.04	36.02	-19.98

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

FCC ID: BCGA3358 IC: 579C-A3358	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170039-16-R1.BCG	Test Dates: 05/12/2025 - 08/29/2025	EUT Type: Tablet Device	Page 41 of 205

7.3.2 Average Output Power Measurement – Bluetooth (HDR)

Frequency [MHz]	Mode	Power Scheme	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	ePA	1	12.06	16.069	30.00	-17.94	2.40	14.46	36.02	-21.56
2441	HDR4	ePA	38	12.13	16.331	30.00	-17.87	2.40	14.53	36.02	-21.49
2476	HDR4	ePA	73	12.31	17.022	30.00	-17.69	2.40	14.71	36.02	-21.31
2404	HDR4	iPA	1	5.47	3.524	30.00	-24.53	2.40	7.87	36.02	-28.15
2441	HDR4	iPA	38	5.36	3.436	30.00	-24.64	2.40	7.76	36.02	-28.26
2476	HDR4	iPA	73	5.14	3.266	30.00	-24.86	2.40	7.54	36.02	-28.48
2404	HDR8	ePA	1	12.22	16.672	30.00	-17.78	2.40	14.62	36.02	-21.40
2441	HDR8	ePA	38	12.45	17.579	30.00	-17.55	2.40	14.85	36.02	-21.17
2476	HDR8	ePA	73	12.10	16.218	30.00	-17.91	2.40	14.50	36.02	-21.53
2404	HDR8	iPA	1	5.37	3.443	30.00	-24.63	2.40	7.77	36.02	-28.25
2441	HDR8	iPA	38	5.29	3.381	30.00	-24.71	2.40	7.69	36.02	-28.33
2476	HDR8	iPA	73	5.27	3.365	30.00	-24.73	2.40	7.67	36.02	-28.35
2404	HDRPS2	ePA	1	12.50	17.783	30.00	-17.50	2.40	14.90	36.02	-21.12
2441	HDRPS2	ePA	38	12.17	16.482	30.00	-17.83	2.40	14.57	36.02	-21.45
2476	HDRPS2	ePA	73	12.37	17.258	30.00	-17.63	2.40	14.77	36.02	-21.25
2404	HDRPS2	iPA	1	5.28	3.373	30.00	-24.72	2.40	7.68	36.02	-28.34
2441	HDRPS2	iPA	38	5.08	3.221	30.00	-24.92	2.40	7.48	36.02	-28.54
2476	HDRPS2	iPA	73	5.03	3.184	30.00	-24.98	2.40	7.43	36.02	-28.60
2404	XHDRPM6	ePA	1	12.47	17.660	30.00	-17.53	2.40	14.87	36.02	-21.15
2441	XHDRPM6	ePA	38	12.37	17.258	30.00	-17.63	2.40	14.77	36.02	-21.25
2476	XHDRPM6	ePA	73	11.98	15.776	30.00	-18.02	2.40	14.38	36.02	-21.64
2404	XHDRPM6	iPA	1	5.40	3.467	30.00	-24.60	2.40	7.80	36.02	-28.22
2441	XHDRPM6	iPA	38	5.22	3.327	30.00	-24.79	2.40	7.62	36.02	-28.41
2476	XHDRPM6	iPA	73	4.89	3.083	30.00	-25.11	2.40	7.29	36.02	-28.73
2404	HDRPM16	ePA	1	10.08	10.186	30.00	-19.92	2.40	12.48	36.02	-23.54
2441	HDRPM16	ePA	38	10.37	10.889	30.00	-19.63	2.40	12.77	36.02	-23.25
2476	HDRPM16	ePA	73	9.96	9.908	30.00	-20.04	2.40	12.36	36.02	-23.66
2404	HDRPM16	iPA	1	2.09	1.618	30.00	-27.91	2.40	4.49	36.02	-31.53
2441	HDRPM16	iPA	38	2.47	1.766	30.00	-27.53	2.40	4.87	36.02	-31.15
2476	HDRPM16	iPA	73	2.19	1.656	30.00	-27.81	2.40	4.59	36.02	-31.43
2404	HDT2	ePA	1	12.05	16.032	30.00	-17.95	2.40	14.45	36.02	-21.57
2440	HDT2	ePA	37	12.29	16.943	30.00	-17.71	2.40	14.69	36.02	-21.33
2476	HDT2	ePA	73	11.98	15.776	30.00	-18.02	2.40	14.38	36.02	-21.64
2404	HDT2	iPA	1	5.31	3.396	30.00	-24.69	2.40	7.71	36.02	-28.31
2440	HDT2	iPA	37	5.08	3.221	30.00	-24.92	2.40	7.48	36.02	-28.54
2476	HDT2	iPA	73	5.33	3.412	30.00	-24.67	2.40	7.73	36.02	-28.29

Table 7-6. Average Conducted Output Power Measurements Antenna 4a (Bluetooth HDR)

FCC ID: BCGA3358 IC: 579C-A3358	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170039-16-R1.BCG	Test Dates: 05/12/2025 - 08/29/2025	EUT Type: Tablet Device	Page 42 of 205

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Frequency [MHz]	Mode	Power Scheme	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	ePA	1	12.97	19.815	30.00	-17.03	1.70	14.67	36.02	-21.35
2441	HDR4	ePA	38	12.78	18.967	30.00	-17.22	1.70	14.48	36.02	-21.54
2476	HDR4	ePA	73	12.96	19.770	30.00	-17.04	1.70	14.66	36.02	-21.36
2404	HDR4	iPA	1	4.06	2.547	30.00	-25.94	1.70	5.76	36.02	-30.26
2441	HDR4	iPA	38	4.31	2.698	30.00	-25.69	1.70	6.01	36.02	-30.01
2476	HDR4	iPA	73	4.42	2.767	30.00	-25.58	1.70	6.12	36.02	-29.90
2404	HDR8	ePA	1	12.50	17.783	30.00	-17.50	1.70	14.20	36.02	-21.82
2441	HDR8	ePA	38	12.83	19.187	30.00	-17.17	1.70	14.53	36.02	-21.49
2476	HDR8	ePA	73	12.91	19.543	30.00	-17.09	1.70	14.61	36.02	-21.41
2404	HDR8	iPA	1	4.04	2.535	30.00	-25.96	1.70	5.74	36.02	-30.28
2441	HDR8	iPA	38	4.15	2.600	30.00	-25.85	1.70	5.85	36.02	-30.17
2476	HDR8	iPA	73	4.44	2.780	30.00	-25.56	1.70	6.14	36.02	-29.88
2404	HDRPS2	ePA	1	12.61	18.239	30.00	-17.39	1.70	14.31	36.02	-21.71
2441	HDRPS2	ePA	38	12.64	18.365	30.00	-17.37	1.70	14.34	36.02	-21.69
2476	HDRPS2	ePA	73	12.72	18.707	30.00	-17.28	1.70	14.42	36.02	-21.60
2404	HDRPS2	iPA	1	4.30	2.692	30.00	-25.70	1.70	6.00	36.02	-30.02
2441	HDRPS2	iPA	38	4.49	2.812	30.00	-25.52	1.70	6.19	36.02	-29.84
2476	HDRPS2	iPA	73	4.23	2.649	30.00	-25.77	1.70	5.93	36.02	-30.09
2404	XHDRPM6	ePA	1	12.68	18.535	30.00	-17.33	1.70	14.38	36.02	-21.65
2441	XHDRPM6	ePA	38	12.98	19.861	30.00	-17.02	1.70	14.68	36.02	-21.34
2476	XHDRPM6	ePA	73	12.52	17.865	30.00	-17.48	1.70	14.22	36.02	-21.80
2404	XHDRPM6	iPA	1	4.30	2.692	30.00	-25.70	1.70	6.00	36.02	-30.02
2441	XHDRPM6	iPA	38	4.12	2.582	30.00	-25.88	1.70	5.82	36.02	-30.20
2476	XHDRPM6	iPA	73	4.17	2.612	30.00	-25.83	1.70	5.87	36.02	-30.15
2404	HDRPM16	ePA	1	10.78	11.967	30.00	-19.22	1.70	12.48	36.02	-23.54
2441	HDRPM16	ePA	38	10.90	12.303	30.00	-19.10	1.70	12.60	36.02	-23.42
2476	HDRPM16	ePA	73	10.60	11.482	30.00	-19.40	1.70	12.30	36.02	-23.72
2404	HDRPM16	iPA	1	1.08	1.282	30.00	-28.92	1.70	2.78	36.02	-33.24
2441	HDRPM16	iPA	38	1.36	1.368	30.00	-28.64	1.70	3.06	36.02	-32.96
2476	HDRPM16	iPA	73	1.37	1.371	30.00	-28.63	1.70	3.07	36.02	-32.95
2404	HDT2	ePA	1	12.50	17.783	30.00	-17.50	1.70	14.20	36.02	-21.82
2440	HDT2	ePA	37	12.65	18.408	30.00	-17.35	1.70	14.35	36.02	-21.67
2476	HDT2	ePA	73	12.81	19.099	30.00	-17.19	1.70	14.51	36.02	-21.51
2404	HDT2	iPA	1	4.24	2.655	30.00	-25.76	1.70	5.94	36.02	-30.08
2440	HDT2	iPA	37	4.02	2.523	30.00	-25.98	1.70	5.72	36.02	-30.30
2476	HDT2	iPA	73	4.00	2.512	30.00	-26.00	1.70	5.70	36.02	-30.32

Table 7-7. Average Conducted Output Power Measurements Antenna 2a (Bluetooth HDR)

Frequency [MHz]	Mode	Power Scheme	Channel No.	Average Conducted Power						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	EIRP Margin [dB]
				Antenna 4a		Antenna 2a		Summed							
				[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]						
2404	HDR4	ePA	1	11.82	15.205	12.59	18.155	15.23	33.343	30.00	-14.77	5.07	20.30	36.02	-15.72
2441	HDR4	ePA	38	12.04	15.996	12.65	18.408	15.37	34.435	30.00	-14.63	5.07	20.44	36.02	-15.58
2476	HDR4	ePA	73	12.24	16.749	12.32	17.061	15.29	33.806	30.00	-14.71	5.07	20.36	36.02	-15.66
2404	HDR4	iPA	1	4.78	3.006	4.09	2.564	7.46	5.572	30.00	-22.54	5.07	12.53	36.02	-23.49
2441	HDR4	iPA	38	5.09	3.228	4.13	2.588	7.64	5.808	30.00	-22.36	5.07	12.71	36.02	-23.31
2476	HDR4	iPA	73	4.92	3.105	4.36	2.729	7.66	5.834	30.00	-22.34	5.07	12.73	36.02	-23.29
2404	HDR8	ePA	1	12.49	17.742	12.97	19.815	15.75	37.584	30.00	-14.25	5.07	20.82	36.02	-15.20
2441	HDR8	ePA	38	12.26	16.827	12.72	18.707	15.50	35.481	30.00	-14.50	5.07	20.57	36.02	-15.45
2476	HDR8	ePA	73	12.40	17.378	12.92	19.588	15.68	36.983	30.00	-14.32	5.07	20.75	36.02	-15.27
2404	HDR8	iPA	1	5.35	3.428	4.04	2.535	7.75	5.957	30.00	-22.25	5.07	12.82	36.02	-23.20
2441	HDR8	iPA	38	4.97	3.141	4.14	2.594	7.59	5.741	30.00	-22.41	5.07	12.86	36.02	-23.36
2476	HDR8	iPA	73	4.65	2.917	3.99	2.506	7.34	5.420	30.00	-22.66	5.07	12.41	36.02	-23.61
2404	HDRPS2	ePA	1	12.38	17.298	12.41	17.418	15.40	34.674	30.00	-14.60	5.07	20.47	36.02	-15.55
2441	HDRPS2	ePA	38	12.17	16.482	12.46	17.620	15.33	34.119	30.00	-14.67	5.07	20.40	36.02	-15.62
2476	HDRPS2	ePA	73	12.25	16.788	12.77	18.923	15.53	35.727	30.00	-14.47	5.07	20.60	36.02	-15.42
2404	HDRPS2	iPA	1	5.27	3.365	4.04	2.535	7.71	5.902	30.00	-22.29	5.07	12.78	36.02	-23.24
2441	HDRPS2	iPA	38	5.40	3.467	4.29	2.685	7.89	6.152	30.00	-22.11	5.07	12.96	36.02	-23.06
2476	HDRPS2	iPA	73	5.28	3.373	4.26	2.667	7.81	6.039	30.00	-22.19	5.07	12.88	36.02	-23.14
2404	XHDRPM6	ePA	1	12.03	15.959	12.65	18.408	15.36	34.356	30.00	-14.64	5.07	20.43	36.02	-15.59
2441	XHDRPM6	ePA	38	12.26	16.827	12.74	18.793	15.52	35.645	30.00	-14.48	5.07	20.59	36.02	-15.43
2476	XHDRPM6	ePA	73	12.49	17.742	12.51	17.824	15.51	35.563	30.00	-14.49	5.07	20.58	36.02	-15.44
2404	XHDRPM6	iPA	1	5.36	3.436	4.25	2.661	7.85	6.095	30.00	-22.15	5.07	12.92	36.02	-23.10
2441	XHDRPM6	iPA	38	5.05	3.199	4.18	2.618	7.65	5.821	30.00	-22.35	5.07	12.72	36.02	-23.30
2476	XHDRPM6	iPA	73	5.35	3.428	4.16	2.606	7.81	6.039	30.00	-22.19	5.07	12.88	36.02	-23.14
2404	HDRPM16	ePA	1	10.00	10.000	10.71	11.776	13.38	21.777	30.00	-16.62	5.07	18.45	36.02	-17.57
2441	HDRPM16	ePA	38	10.29	10.691	10.83	12.106	13.58	22.803	30.00	-16.42	5.07	18.65	36.02	-17.37
2476	HDRPM16	ePA	73	9.99	9.977	10.53	11.298	13.28	21.281	30.00	-16.72	5.07	18.35	36.02	-17.67
2404	HDRPM16	iPA	1	2.07	1.611	1.05	1.274	4.60	2.884	30.00	-25.40	5.07	9.67	36.02	-26.35
2441	HDRPM16	iPA	38	2.40	1.738	1.32	1.355	4.91	3.097	30.00	-25.09	5.07	9.98	36.02	-26.04
2476	HDRPM16	iPA	73	2.09	1.618	1.30	1.349	4.72	2.965	30.00	-25.28	5.07	9.79	36.02	-26.23
2404	HDT2	ePA	1	12.00	15.849	12.96	19.770	15.51	35.563	30.00	-14.49	5.07	20.58	36.02	-15.44
2440	HDT2	ePA	37	12.26	16.827	12.58	18.113	15.44	34.955	30.00	-14.56	5.07	20.51	36.02	-15.51
2476	HDT2	ePA	73	12.49	17.742	12.75	18.836	15.63	36.559	30.00	-14.37	5.07	20.70	36.02	-15.32
2404	HDT2	iPA	1	5.27	3.365	4.21	2.636	7.78	5.998	30.00	-22.22	5.07	12.85	36.02	-23.17
2440	HDT2	iPA	37	5.02	3.177	4.49	2.812	7.77	5.984	30.00	-22.23	5.07	12.84	36.02	-23.18
2476	HDT2	iPA	73	5.28	3.373	4.48	2.805	7.91	6.180	30.00	-22.09	5.07	12.98	36.02	-23.04

Table 7-10. Average Conducted Output Power Measurements TxBF (Bluetooth HDR)

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Note:

Per ANSI C63.10-2020 and KDB 662911 D01 v02r01 Section E)1), the conducted powers at Antenna 4a and Antenna 2a 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 2404MHz the average conducted output power was measured to be 11.82 dBm for Antenna 4a and 12.59 dBm for Antenna 2a.

$$\text{Antenna 4a} + \text{Antenna 2a} = \text{TxBF}$$

$$(11.82 \text{ dBm} + 12.59 \text{ dBm}) = (15.205 \text{ mW} + 18.155 \text{ mW}) = 33.343 \text{ mW} = 15.23 \text{ dBm}$$

Sample e.i.r.p. Calculation:

At 2404MHz, the average conducted output power was calculated to be 15.23 dBm with antenna gain of 5.07 dBi.

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

$$15.23 \text{ dBm} + 5.07 \text{ dBi} = 20.30 \text{ dBm}$$

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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

ANSI C63.10-2020 – Subclause 14.5.2.2 Measure-and-Sum Technique

KDB 662911 D01 v02r01 – Section E)2) Measure-and-Sum Technique

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

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7.4.1 Antenna 4a

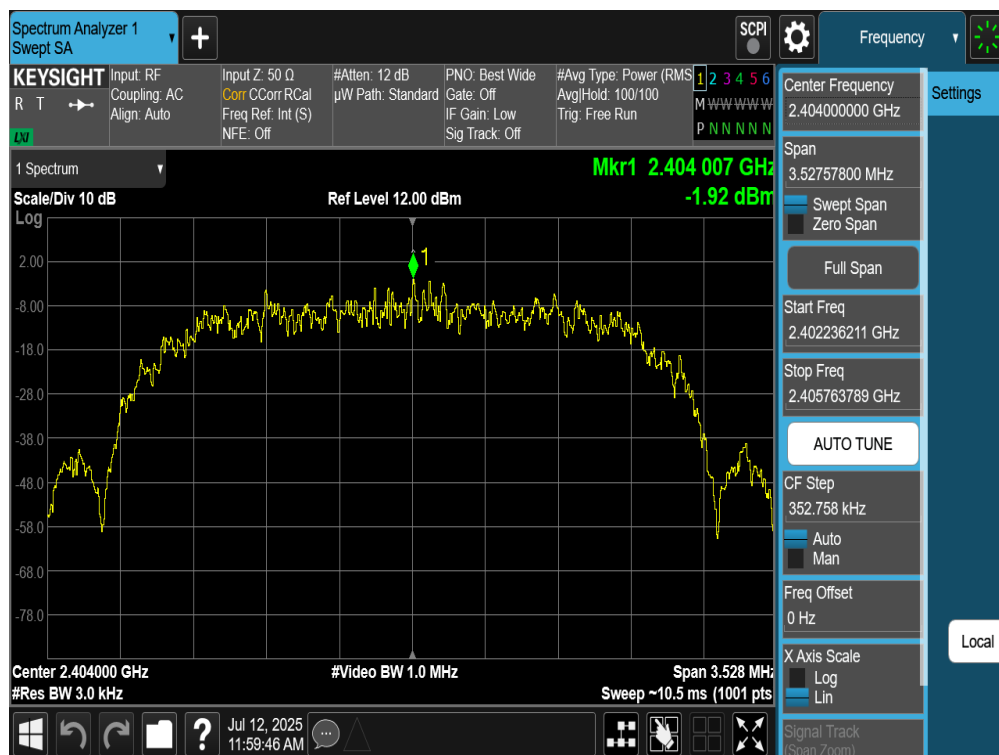
Frequency [MHz]	Mode	Power Scheme	Channel No.	Measured Power Density [dBm/3kHz]	Max Power Density [dBm/3kHz]	Margin [dB]
2404	HDR4	ePA	1	-1.92	8.0	-9.92
2441	HDR4	ePA	38	-1.96	8.0	-9.96
2476	HDR4	ePA	73	-3.94	8.0	-11.94
2404	HDR4	iPA	1	-8.72	8.0	-16.72
2441	HDR4	iPA	38	-8.29	8.0	-16.29
2476	HDR4	iPA	73	-8.99	8.0	-16.99
2404	HDR8	ePA	1	-3.10	8.0	-11.10
2441	HDR8	ePA	38	-2.60	8.0	-10.60
2476	HDR8	ePA	73	-3.34	8.0	-11.34
2404	HDR8	iPA	1	-9.49	8.0	-17.49
2441	HDR8	iPA	38	-9.56	8.0	-17.56
2476	HDR8	iPA	73	-9.68	8.0	-17.68
2404	HDRPS2	ePA	1	-4.35	8.0	-12.35
2441	HDRPS2	ePA	38	-4.19	8.0	-12.19
2476	HDRPS2	ePA	73	-4.48	8.0	-12.48
2404	HDRPS2	iPA	1	-11.77	8.0	-19.77
2441	HDRPS2	iPA	38	-11.90	8.0	-19.90
2476	HDRPS2	iPA	73	-12.23	8.0	-20.23
2404	XHDRPM6	ePA	1	-8.07	8.0	-16.07
2441	XHDRPM6	ePA	38	-7.99	8.0	-15.99
2476	XHDRPM6	ePA	73	-8.76	8.0	-16.76
2404	XHDRPM6	iPA	1	-15.56	8.0	-23.56
2441	XHDRPM6	iPA	38	-15.59	8.0	-23.59
2476	XHDRPM6	iPA	73	-15.44	8.0	-23.44
2404	HDRPM16	ePA	1	-8.83	8.0	-16.83
2441	HDRPM16	ePA	38	-8.14	8.0	-16.14
2476	HDRPM16	ePA	73	-9.10	8.0	-17.10
2404	HDRPM16	iPA	1	-17.44	8.0	-25.44
2441	HDRPM16	iPA	38	-17.29	8.0	-25.29
2476	HDRPM16	iPA	73	-17.12	8.0	-25.12
2404	HDT2	ePA	1	-6.99	8.0	-14.99
2440	HDT2	ePA	37	-6.23	8.0	-14.23
2476	HDT2	ePA	73	-7.09	8.0	-15.09
2404	HDT2	iPA	1	-14.16	8.0	-22.16
2440	HDT2	iPA	37	-14.24	8.0	-22.24
2476	HDT2	iPA	73	-14.05	8.0	-22.05

Table 7-8. Conducted Power Density Measurements Antenna 4a

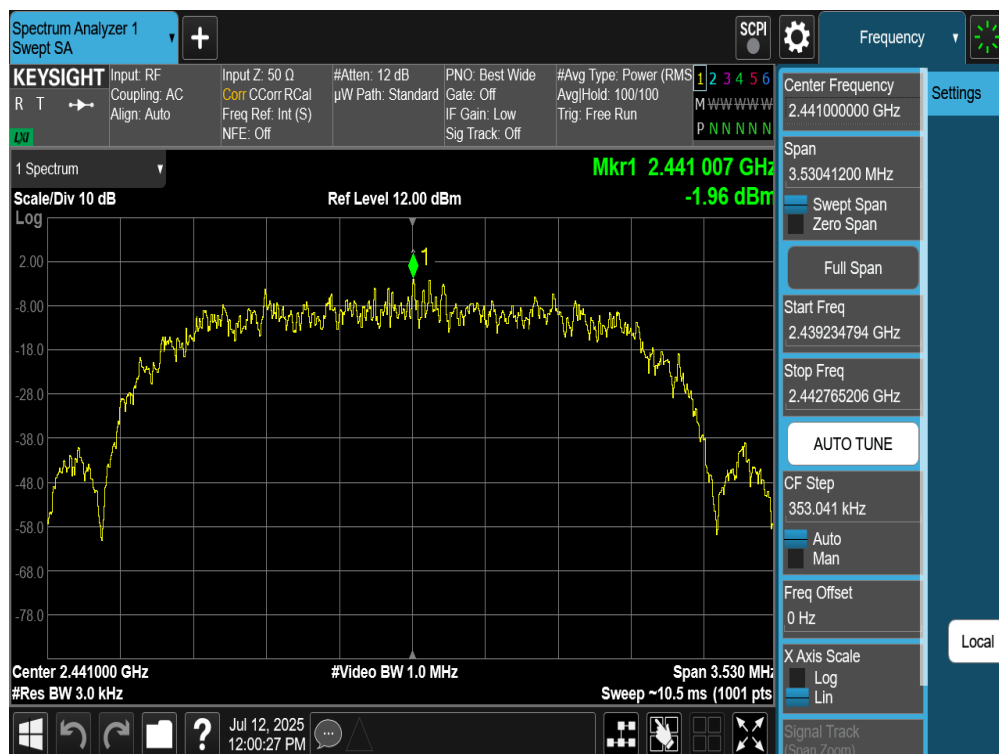
FCC ID: BCGA3358 IC: 579C-A3358	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-37. Power Spectral Density Plot Antenna 4a (Bluetooth (HDR4), 4Mbps, ePA – Ch. 1)

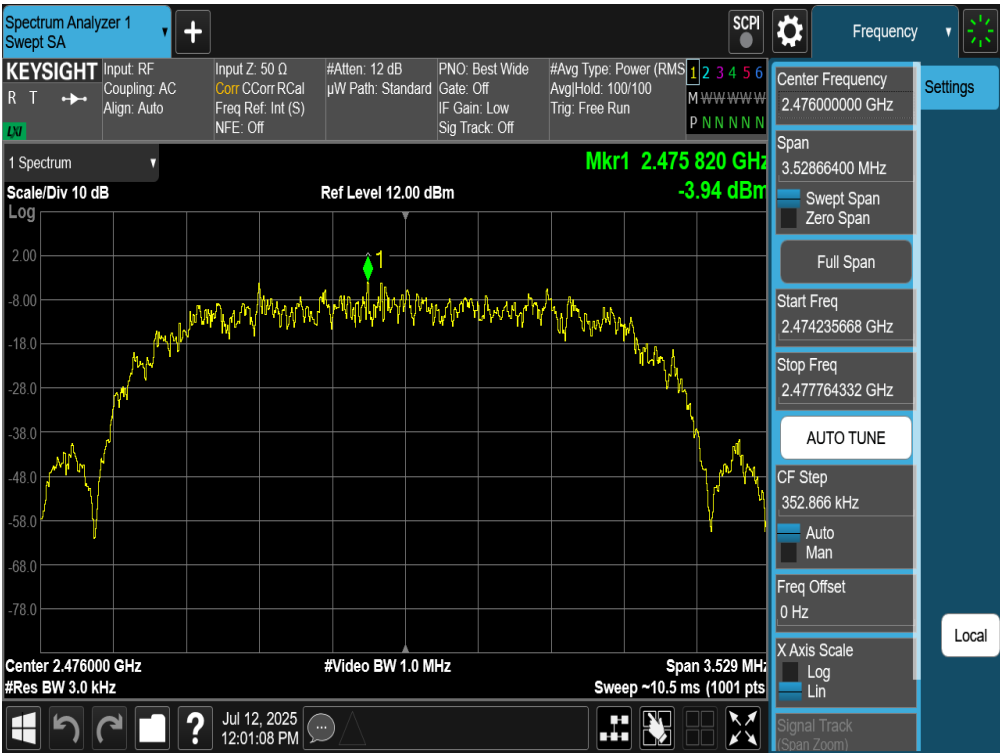


Plot 7-38. Power Spectral Density Plot Antenna 4a (Bluetooth (HDR4), 4Mbps, ePA – Ch. 38)

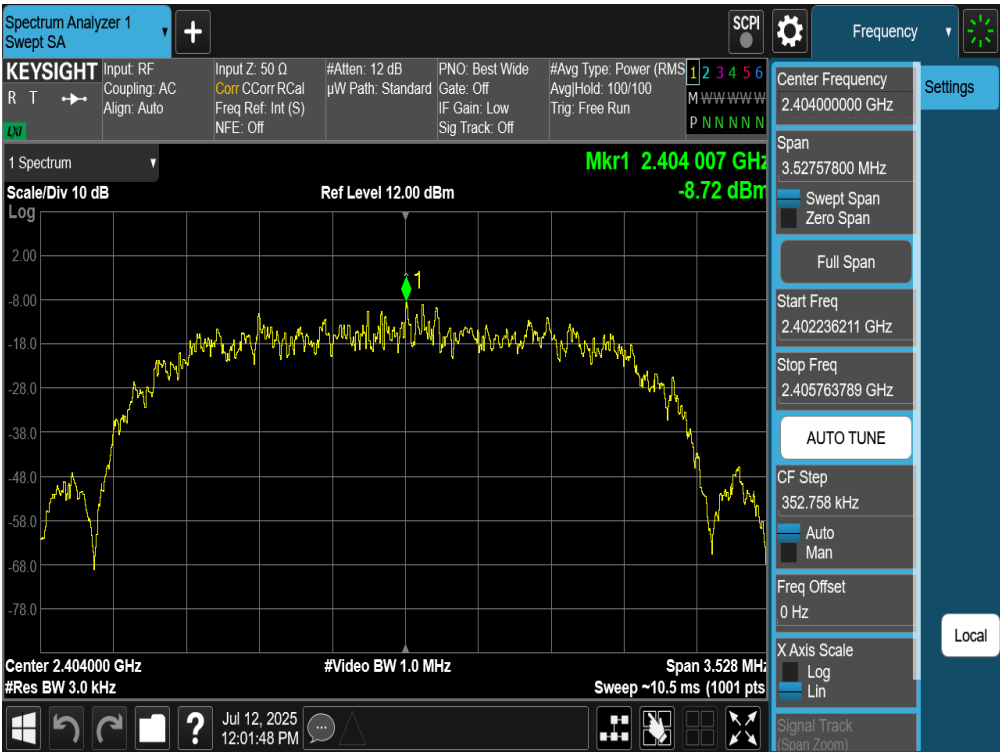
FCC ID: BCGA3358 IC: 579C-A3358	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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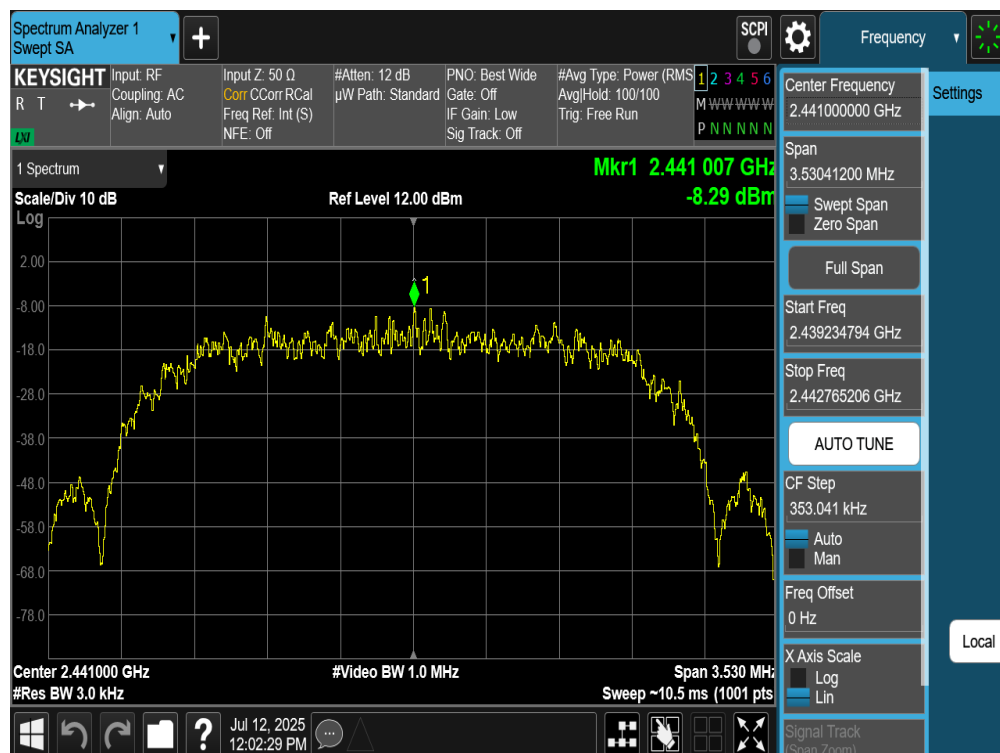


Plot 7-39. Power Spectral Density Plot Antenna 4a (Bluetooth (HDR4), 4Mbps, ePA – Ch. 73)

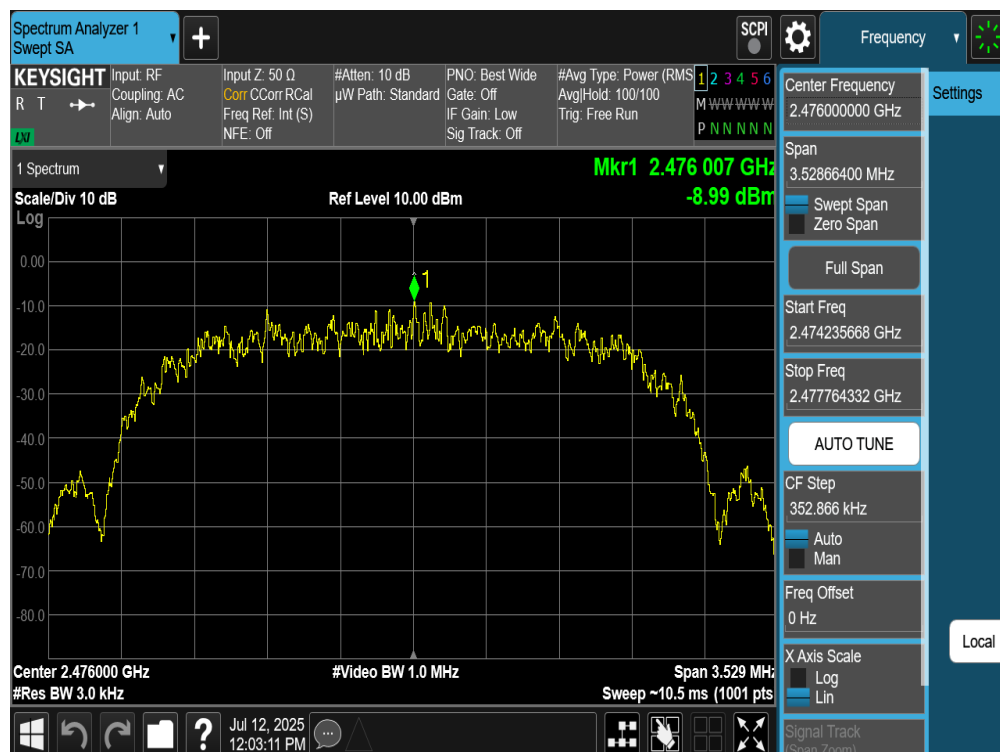


Plot 7-40. Power Spectral Density Plot Antenna 4a (Bluetooth (HDR4), 4Mbps, iPA – Ch. 1)

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Plot 7-41. Power Spectral Density Plot Antenna 4a (Bluetooth (HDR4), 4Mbps, iPA – Ch. 38)



Plot 7-42. Power Spectral Density Plot Antenna 4a (Bluetooth (HDR4), 4Mbps, iPA – Ch. 73)

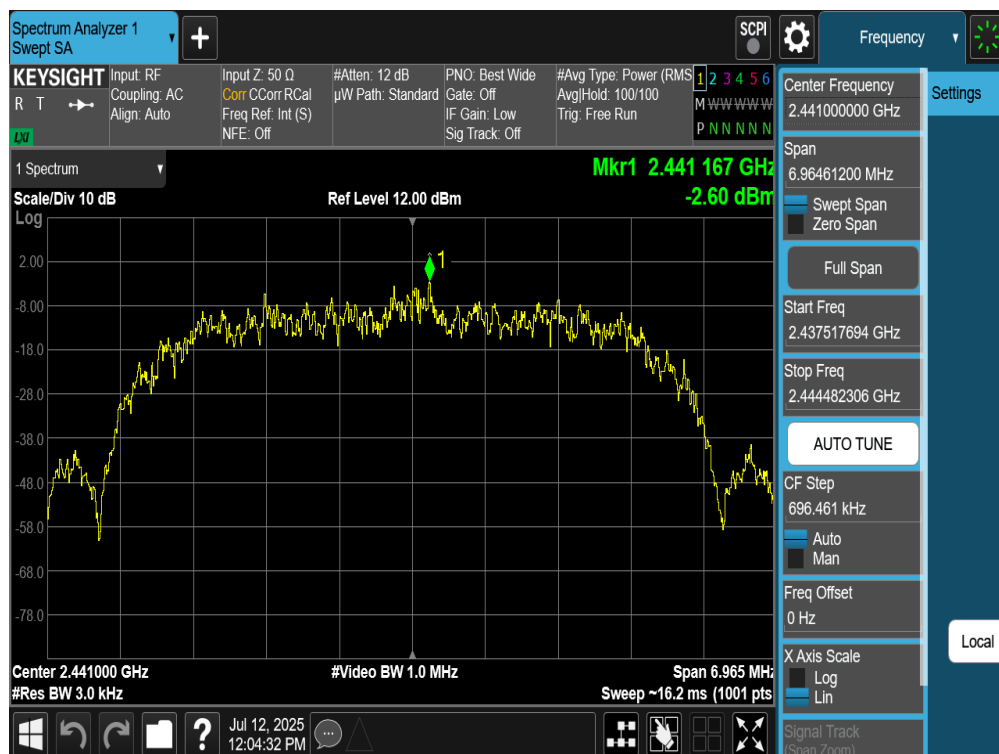
FCC ID: BCGA3358 IC: 579C-A3358	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-43. Power Spectral Density Plot Antenna 4a (Bluetooth (HDR8), 8Mbps, ePA – Ch. 1)

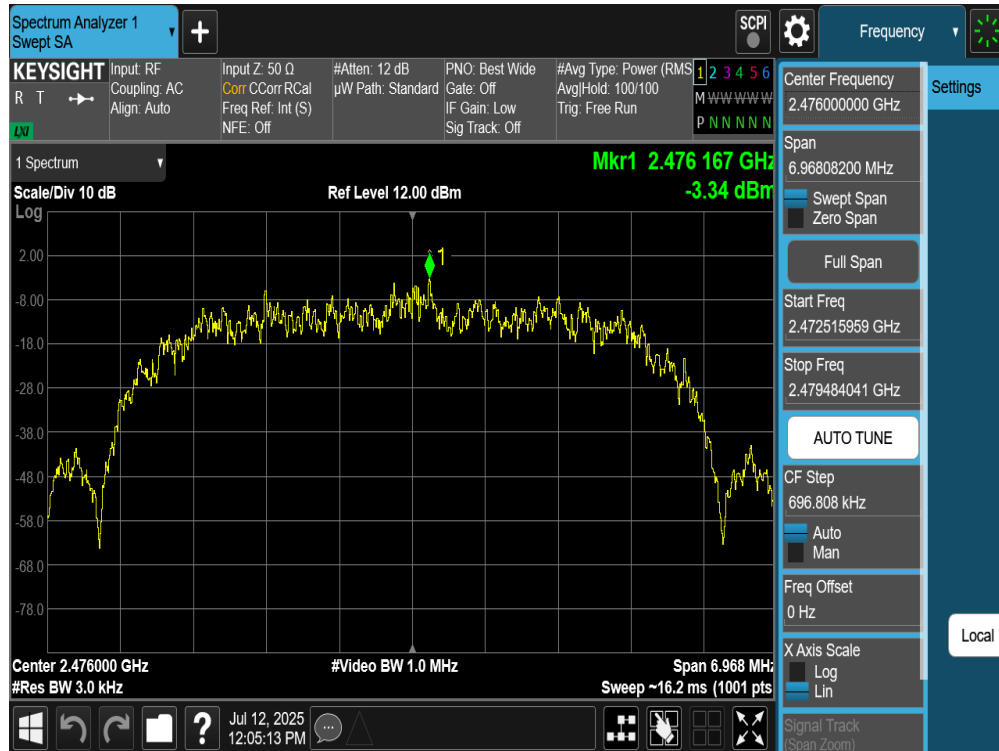


Plot 7-44. Power Spectral Density Plot Antenna 4a (Bluetooth (HDR8), 8Mbps, ePA – Ch. 38)

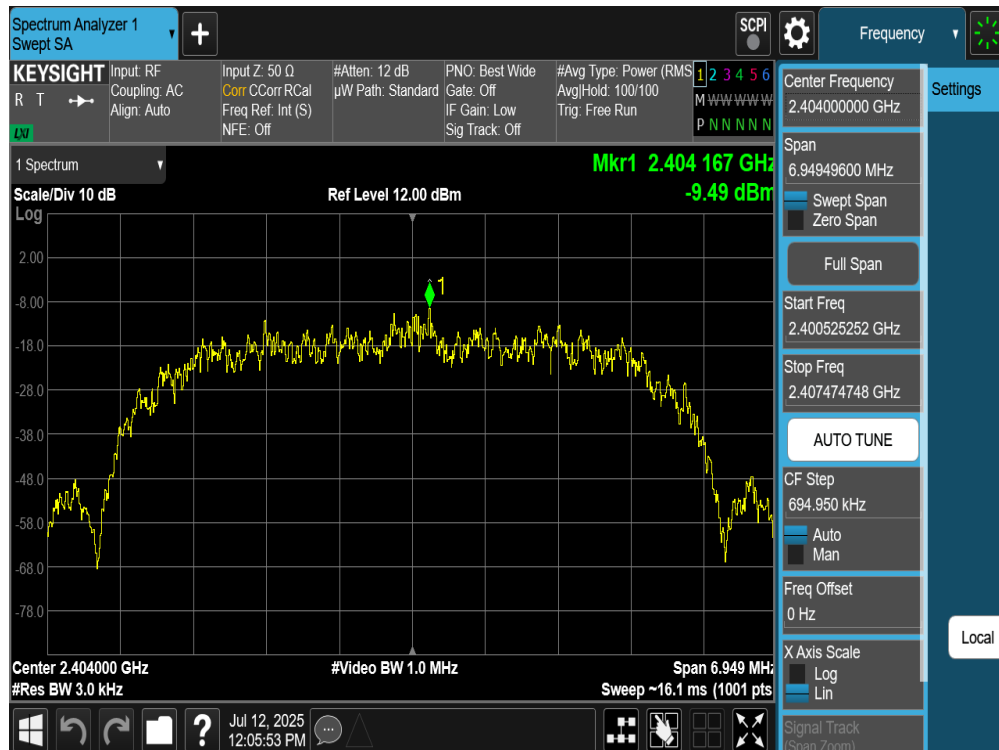
FCC ID: BCGA3358 IC: 579C-A3358	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-45. Power Spectral Density Plot Antenna 4a (Bluetooth (HDR8), 8Mbps, ePA – Ch. 73)

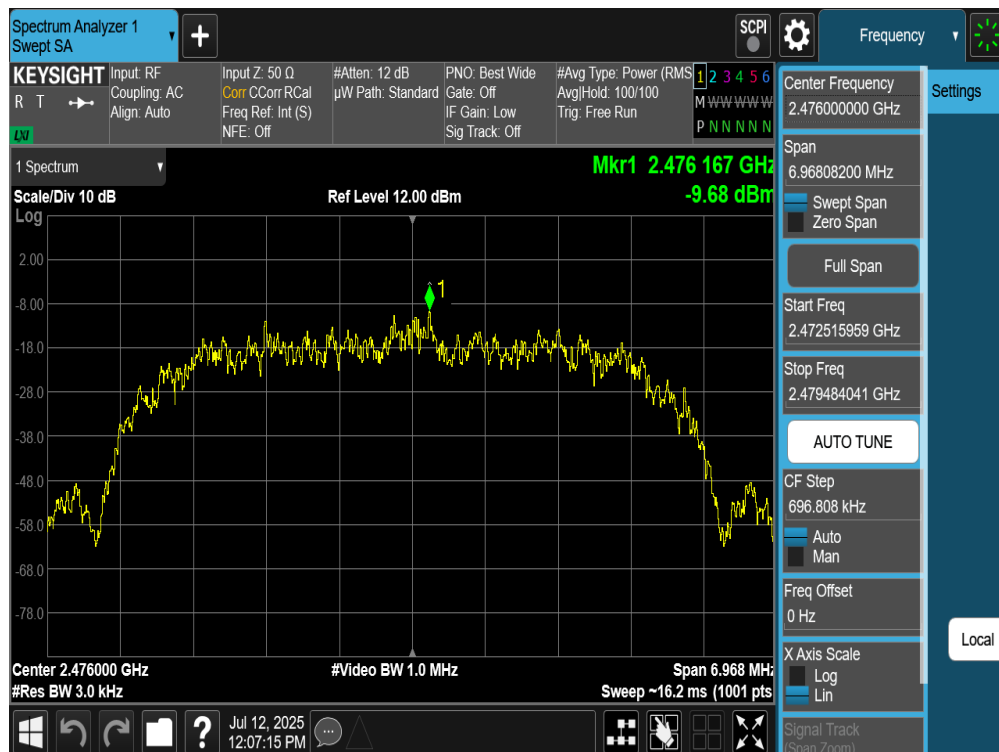
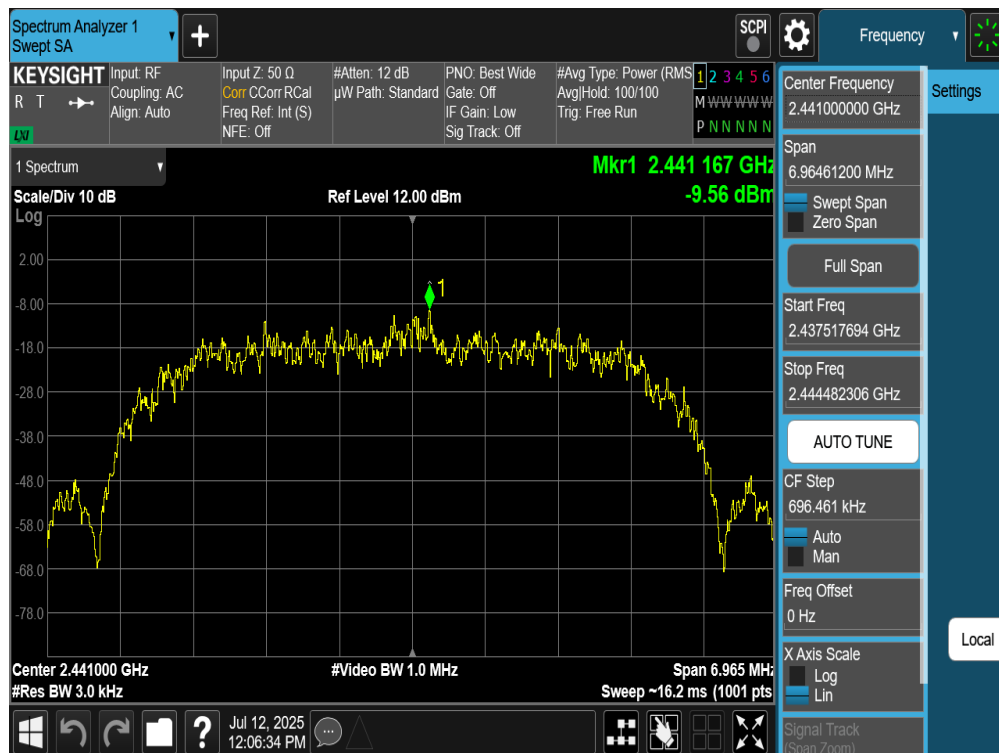


Plot 7-46. Power Spectral Density Plot Antenna 4a (Bluetooth (HDR8), 8Mbps, iPA – Ch. 1)

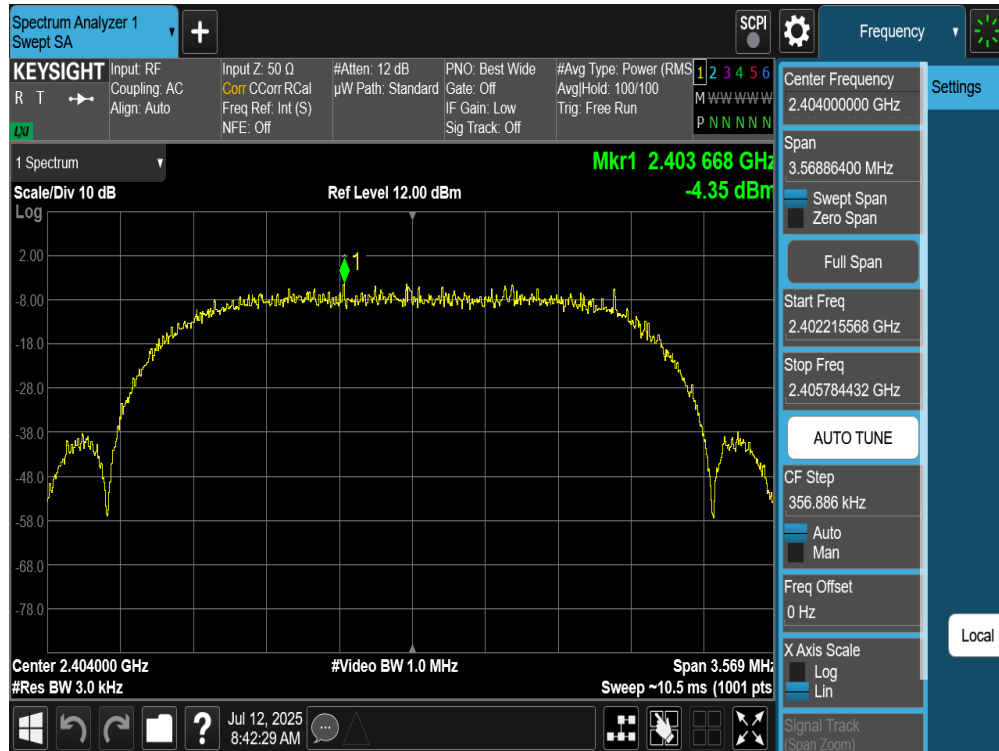
FCC ID: BCGA3358 IC: 579C-A3358		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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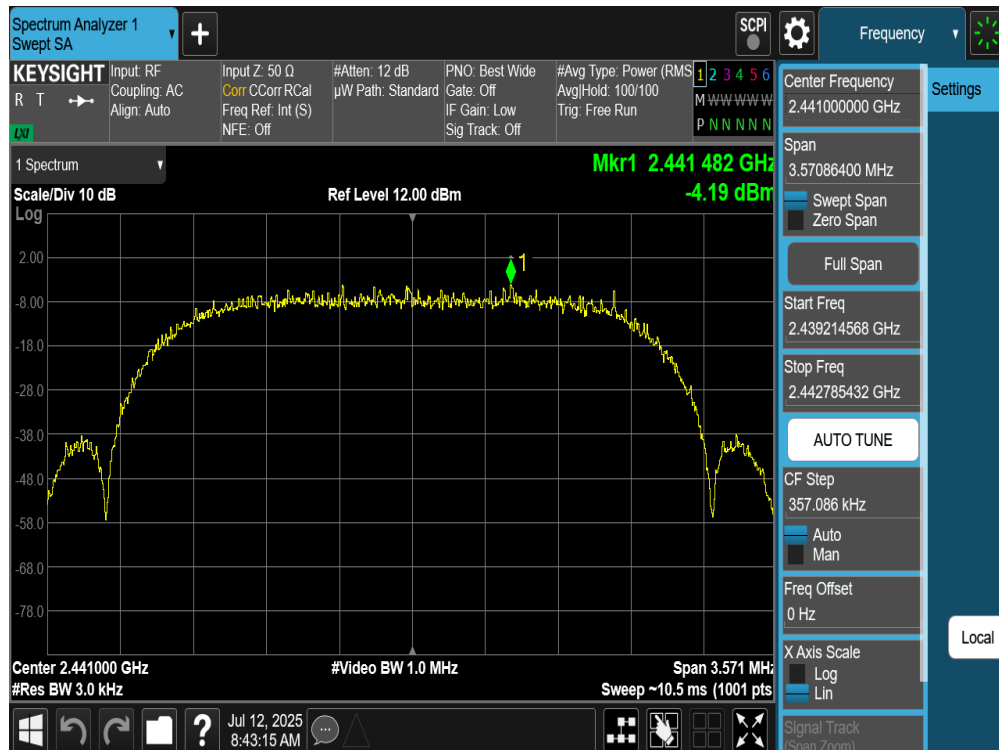
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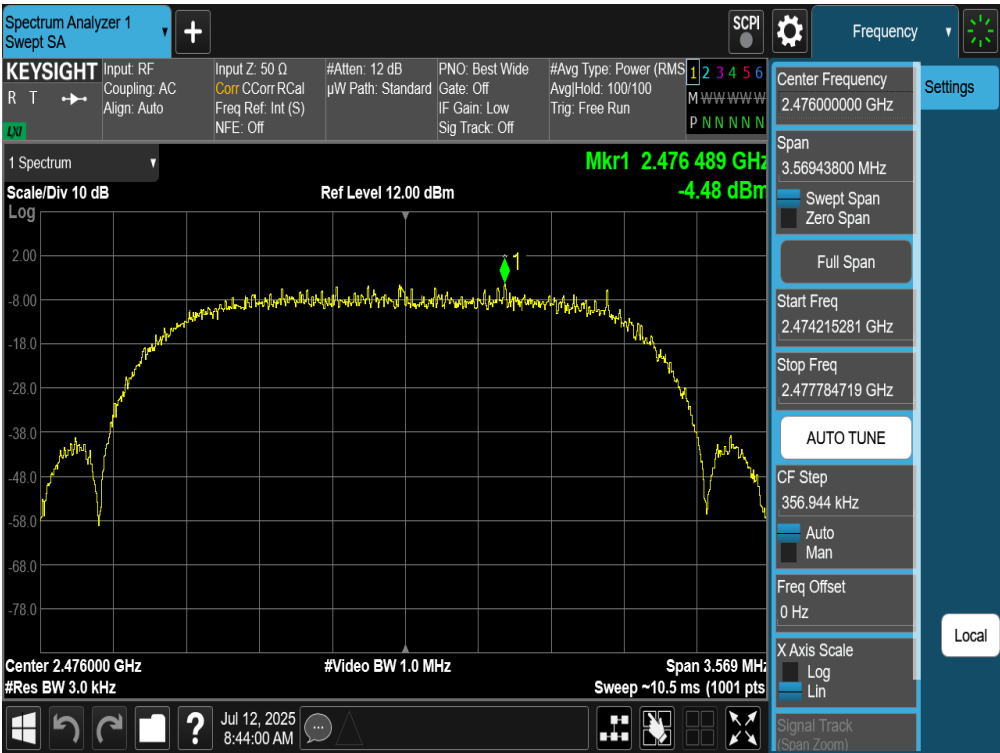


Plot 7-49. Power Spectral Density Plot Antenna 4a (Bluetooth (HDRPS2), 2Mbps, ePA – Ch. 1)

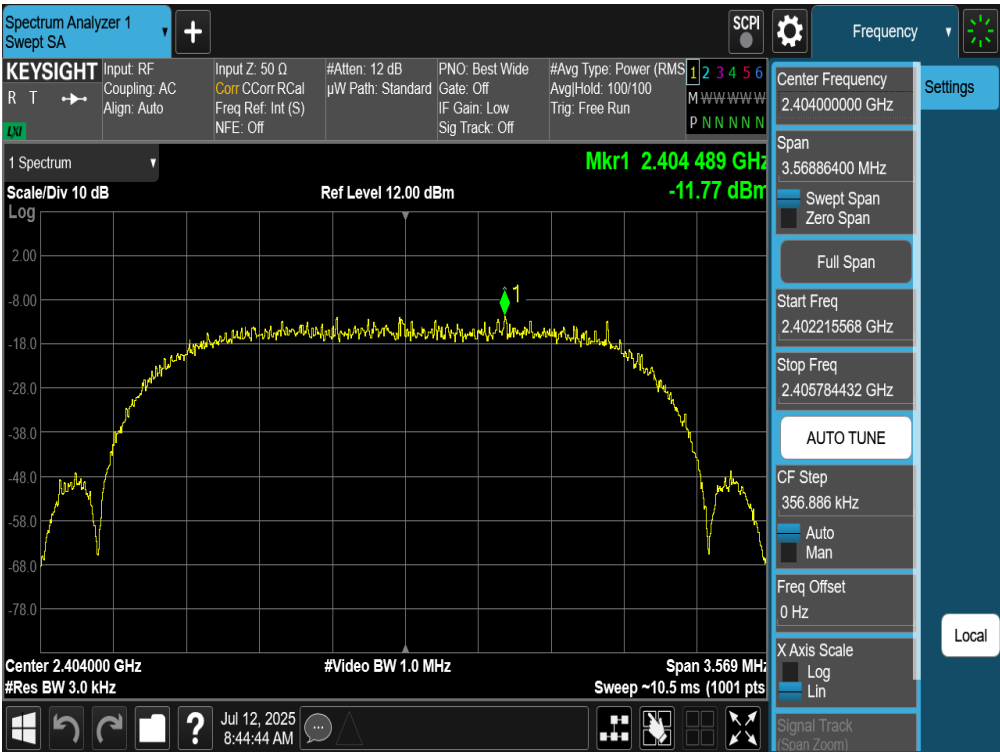


Plot 7-50. Power Spectral Density Plot Antenna 4a (Bluetooth (HDRPS2), 2Mbps, ePA – Ch. 38)

FCC ID: BCGA3358 IC: 579C-A3358		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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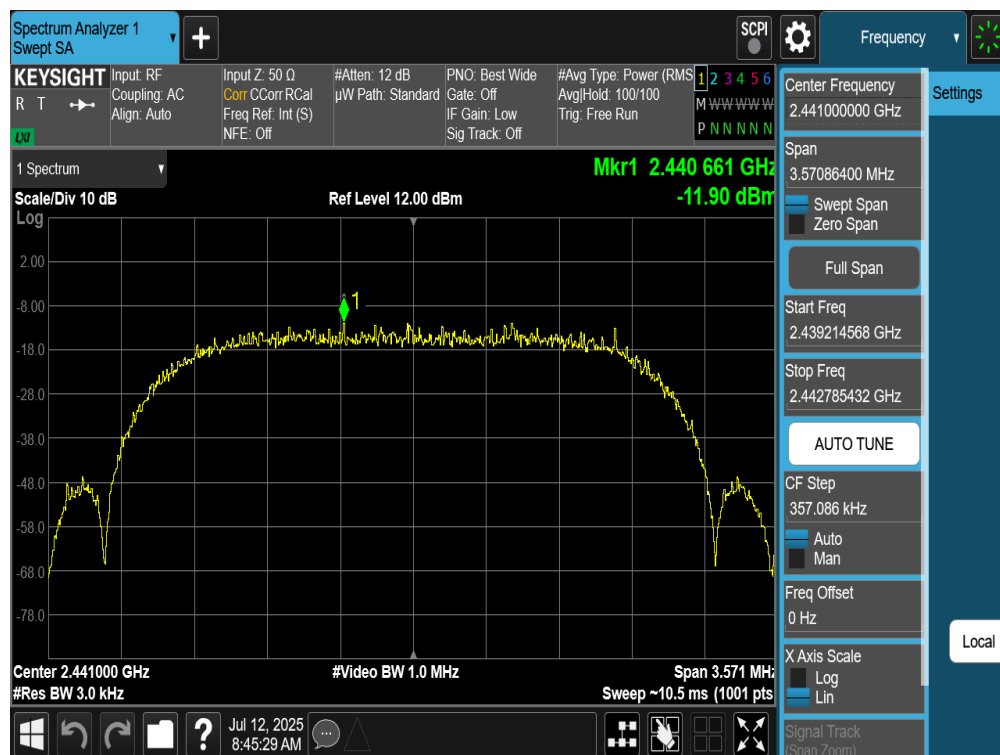


Plot 7-51. Power Spectral Density Plot Antenna 4a (Bluetooth (HDRPS2), 2Mbps, ePA – Ch. 73)

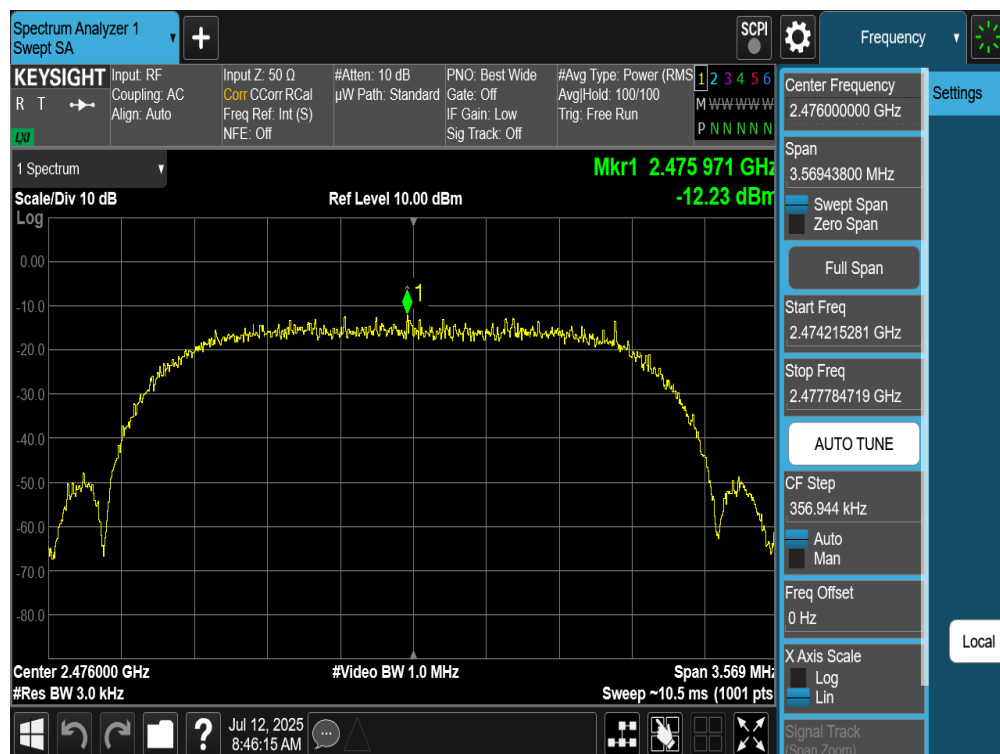


Plot 7-52. Power Spectral Density Plot Antenna 4a (Bluetooth (HDRPS2), 2Mbps, iPA – Ch. 1)

FCC ID: BCGA3358 IC: 579C-A3358	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-53. Power Spectral Density Plot Antenna 4a (Bluetooth (HDRPS2), 2Mbps, iPA – Ch. 38)



Plot 7-54. Power Spectral Density Plot Antenna 4a (Bluetooth (HDRPS2), 2Mbps, iPA – Ch. 73)

FCC ID: BCGA3358 IC: 579C-A3358		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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