

MEASUREMENT REPORT

FCC PART 15.247 / ISED RSS-247 WLAN 802.11b/g/n/ax/be

Applicant Name:

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

Date of Testing:

05/12/2025 - 07/19/2025

Test Report Issue Date:

8/29/2025

Test Site/Location:

Element Materials Technology, Morgan Hill, CA, USA

Test Report Serial No.:

1C2504170039-14-R1.BCG

FCC ID:

BCGA3358

IC:

579C-A3358

APPLICANT:

Apple Inc.

Application Type:

Certification

Model/HVIN:

A3358, A3359

EUT Type:

Tablet Device

Frequency Range:

2412 – 2472MHz

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,
KDB 662911 D01 v02r01

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: 1C2504170039-14-R1.BCG) supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose accordingly.

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



RJ Ortanez
Executive Vice President



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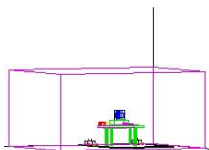
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T A B L E O F C O N T E N T S

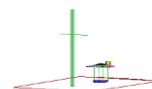
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Mode	Tx Frequency (MHz)	Antenna 4a		Antenna 2a		CDD	
		Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)
802.11b	2412 - 2472	137.120	21.37	138.388	21.41	272.270	24.35
802.11g	2412 - 2472	140.702	21.48	135.083	21.31	272.898	24.36
802.11n	2412 - 2472	137.151	21.37	134.524	21.29	272.270	24.35
802.11be (SU)	2412 - 2472	133.321	21.25	137.404	21.38	268.534	24.29

EUT Overview

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1.0 INTRODUCTION

1.1 Scope

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

1.2 Element Materials Technology Test Location

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

1.3 Test Facility / Accreditations

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

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

Test Device Serial No.: T17HY9CMF6, KKX6MJQJFF, QQ3CYR14DC, NDJ76X22L4, H9HHG40005J0000X4G

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.

Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432	12	2467
6	2437	13	2472
7	2442		

Table 2-1. 802.11b/g/n/ax/be Frequency/Channel Operations

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Note: 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:

802.11 Mode/Band	Duty Cycle [%]					
	Antenna 4a		Antenna 2a		CDD/SDM	
	Duty Cycle [%]	DCCF [dB]	Duty Cycle [%]	DCCF [dB]	Duty Cycle [%]	DCCF [dB]
b	98.378	0.071	98.401	0.070	97.994	0.088
^g (Low Data Rate)	98.197	0.079	98.378	0.071	98.197	0.079
^g (Mid Data Rate)	96.073	0.174	96.073	0.174	95.918	0.181
^g (High Data Rate)	93.154	0.308	93.411	0.296	93.411	0.296
ⁿ (Low Data Rate)	98.197	0.079	98.378	0.071	98.651	0.059
ⁿ (Mid Data Rate)	95.324	0.208	95.104	0.218	94.886	0.228
ⁿ (High Data Rate)	90.866	0.416	91.306	0.395	91.306	0.395
be(SU) (Low Data Rate)	97.814	0.096	98.469	0.067	98.356	0.072
be(SU) (Mid Data Rate)	94.428	0.249	94.428	0.249	94.428	0.249
be(SU) (High Data Rate)	91.075	0.406	90.866	0.416	90.803	0.419

Table 2-2. Measured Duty Cycles

CDD/SDM = Antenna 4a + Antenna 2a

The device employs CDD technology. Below are the possible configurations.

WiFi Configurations		SISO		SDM		CDD	
		Antenna 4a	Antenna 2a	Antenna 4a	Antenna 2a	Antenna 4a	Antenna 2a
2.4GHz	11b	✓	✓	✗	✗	✓	✓
	11g	✓	✓	✓	✓	✓	✓
	11n	✓	✓	✓	✓	✓	✓
	11ax	✓	✓	✓	✓	✓	✓
	11be	✓	✓	✓	✓	✓	✓

Table 2-3. Wi-Fi Configurations

✓ = Support ; ✗ = NOT Support

SISO = Single Input Single Output

SDM = Spatial Diversity Multiplexing – CDD function

CDD = Cyclic Delay Diversity - 2Tx Function

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The device supports the following data rates (shown in Mbps):

802.11b	802.11g	MCS Index			Spatial Stream	802.11n		OFDM (802.11ax/be)			
20MHz		HT	HE	EHT		20MHz		20MHz			
						0.8μs GI	0.4μs GI	0.8μs GI	1.6μs GI	3.2μs GI	
1	6	0	0	0	1	6.5	7.2	8.6	8.1	7.3	Low rate
2	9	1	1	1	1	13	14.4	17.2	16.3	14.6	
5.5	12	2	2	2	1	19.5	21.7	25.8	24.4	21.9	
11	18	3	3	3	1	26	28.9	34.4	32.5	29.3	Mid rate
-	24	4	4	4	1	39	43.3	51.6	48.8	43.9	
-	36	5	5	5	1	52	57.8	68.8	65	58.5	
-	48	6	6	6	1	58.5	65	77.4	73.1	65.8	High Rate
-	54	7	7	7	1	65	72.2	86	81.3	73.1	
-	-	-	8	8	1	78	86.7	103.2	97.5	87.8	
-	-	-	9	9	1	-	-	114.7	108.3	97.5	
1	6	8	0	0	2	13	14.4	17.2	16.3	14.6	
2	9	9	1	1	2	26	28.9	34.4	32.5	29.3	Low rate
5.5	12	10	2	2	2	39	43.3	51.6	48.8	43.9	
11	18	11	3	3	2	52	57.8	68.8	65	58.5	
-	24	12	4	4	2	78	86.7	103.2	97.5	87.8	Mid rate
-	36	13	5	5	2	104	115.6	137.6	130	117	
-	48	14	6	6	2	117	130	154.9	146.3	131.6	
-	54	15	7	7	2	130	144.4	172.1	162.5	146.3	High Rate
-	-	-	8	8	2	156	173.3	206.5	195	175.5	
-	-	-	9	9	2	-	-	229.4	216.7	195	

Table 2-4. Supported Data Rates

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 2-5. Simultaneous Transmission Configurations

✓ = Support; ✗ = Not Support

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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.

2.3 Antenna Description

Following antenna gains provided by manufacturer were used for the testing.

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

Table 2-6. Highest Antenna Gain

2.4 Test Support Equipment

1	Apple MacBook Pro	Model:	A2141	S/N:	C02H604EQ05D
	w/AC/DC Adapter	Model:	A2166	S/N:	C4H042705ZNPM0WA6
2	Apple USB-C Cable	Model:	Spartan	S/N:	GXK1336018XKTR024
3	USB-C Cable	Model:	A2795	S/N:	DWH80115BK826GV19
	w/ AC Adapter	Model:	A2305	S/N:	C4H95160004PF4F4V
4	Apple Pencil	Model:	A2538	S/N:	KJ26TCFXJW
5	DC Power Supply	Model:	KPS3010D	S/N:	N/A

Table 2-7. 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, Section 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 EUT powered by AC/DC was the worst case.

- 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

802.11be-mode test data provided in this report covers 802.11ax as target powers are identical.

802.11n CDD mode test data provided in this report covers 802.11n SDM.

802.11be-SU HE20 2TX CDD mode test data provided in this report covers 802.11be-SU HE20 2TX SDM.

The data rates have been categorized into three groups: low, middle, and high data rates (see Table 2-4). All three groups have been investigated, and only the worst-case data rate has been reported.

For 802.11be-RU test results, see separate WLAN (OFDMA) report, 1C2504170039-15.BCG

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

The EUT is powered from one LISN and the support equipment is powered from the second LISN. If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and this supply line(s) will be connected to the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference 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 7.9. 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 connections to an external antenna.

Conclusion:

The EUT unit 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
AC 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	00571
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)

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]	Transmitter Output Power	< 1 Watt		PASS	Section 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	Section 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	Section 7.7, 7.8
15.207	RSS-Gen [8.8]	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.207 limits (RSS-Gen [8.8])	AC LINE CONDUCTED	PASS	Section 7.9

Table 7-1. Summary of Test Results

Notes:

1. All modes of operation 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 and attenuators.
4. For conducted spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element "Conducted Automation," Version 1.4.0
5. For radiated testing, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element "Chamber Automation," Version 3.4.2.

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7.2 6dB BW and 99% OBW Measurement

§15.247(a)(2); §2.1049; 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 its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates 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 analyzer's 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, step 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

1. All data rates and channels were investigated, and tabular data has been reported. Only the worst-case plot was reported.

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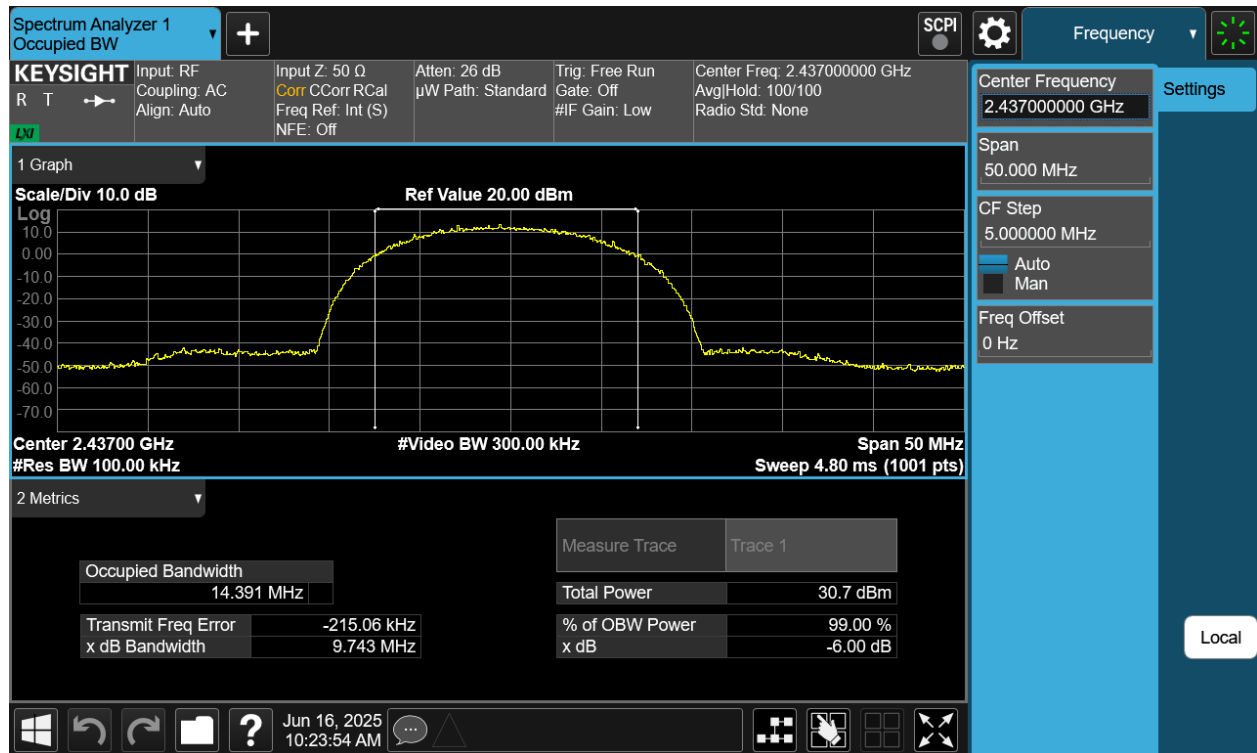
7.2.1 Antenna 4a 6dB BW and 99% OBW Measurements

Frequency [MHz]	Channel	802.11 MODE	Data Rate	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass/Fail
2412	1	b	11Mbps	14.57	11.06	0.50	Pass
2437	6	b	11Mbps	14.39	9.74	0.50	Pass
2462	11	b	11Mbps	14.07	10.67	0.50	Pass
2412	1	g	6Mbps	17.75	17.63	0.50	Pass
2437	6	g	6Mbps	17.87	16.42	0.50	Pass
2462	11	g	6Mbps	17.61	17.18	0.50	Pass
2412	1	n	MCS0	17.75	17.63	0.50	Pass
2437	6	n	MCS0	17.84	16.58	0.50	Pass
2462	11	n	MCS0	17.62	17.19	0.50	Pass
2412	1	be (SU)	MCS5	18.97	19.07	0.50	Pass
2437	6	be (SU)	MCS0	18.96	18.53	0.50	Pass
2462	11	be (SU)	MCS0	18.87	18.84	0.50	Pass

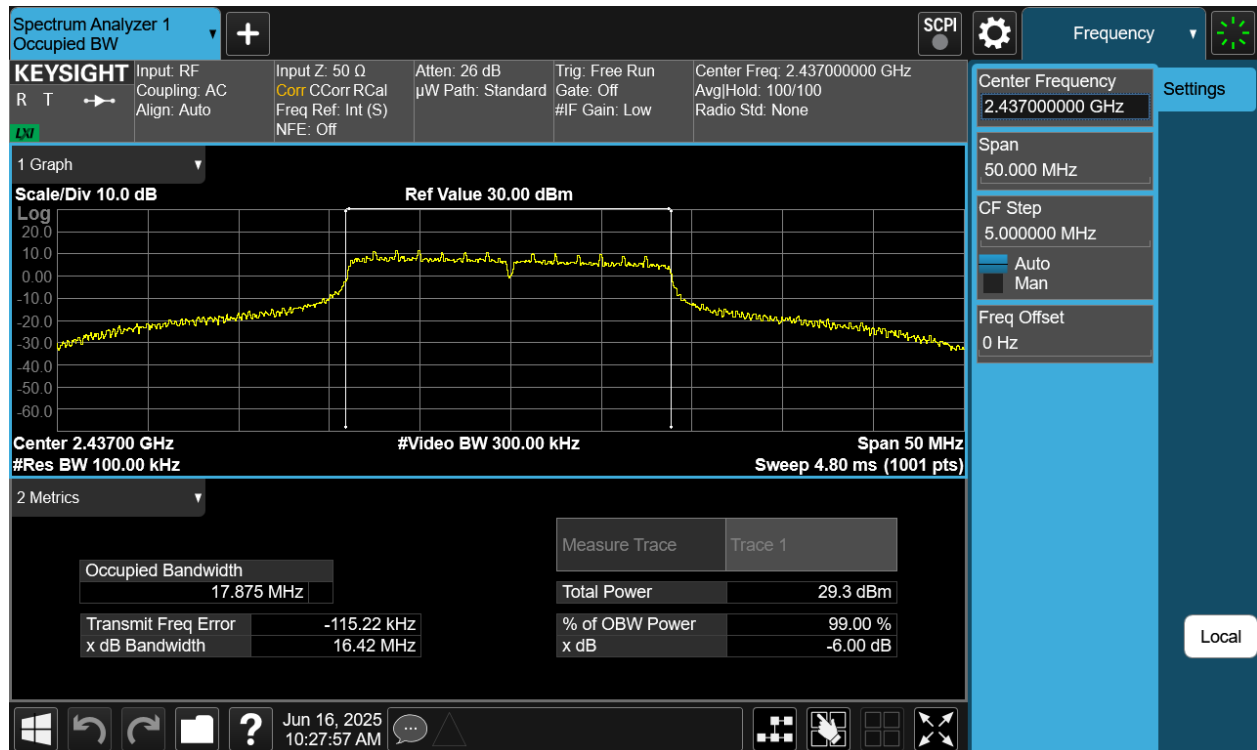
Table 7-2. Conducted Bandwidth Measurements Antenna 4a

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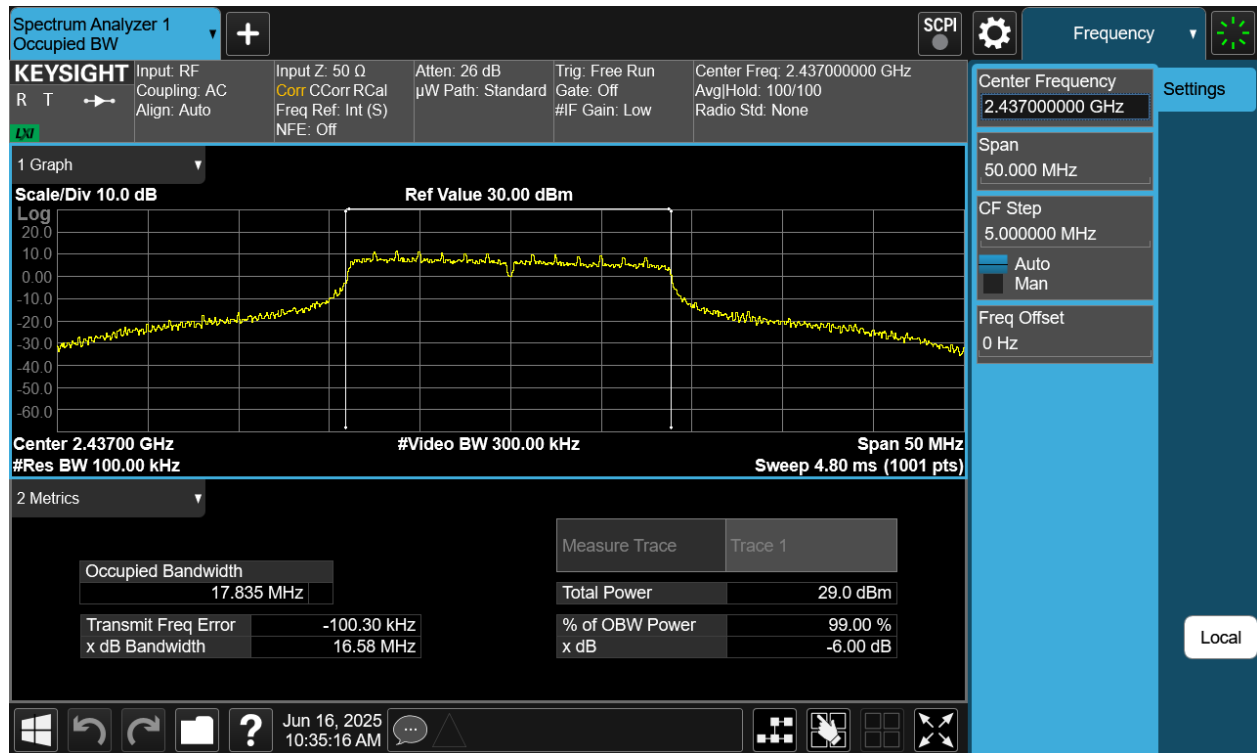


Plot 7-1 6dB BW & 99% OBW Antenna 4a (20MHz BW 802.11b - Ch.6)

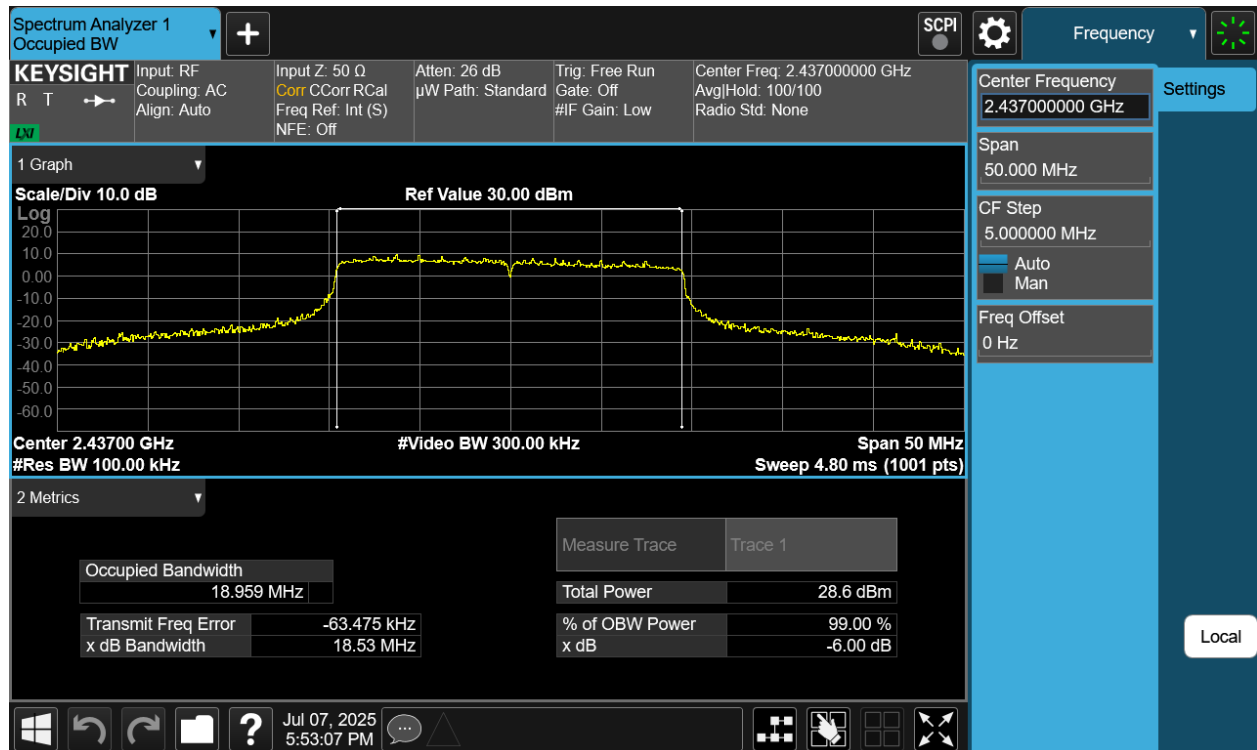


Plot 7-2 6dB BW & 99% OBW Antenna 4a (20MHz BW 802.11g - Ch.6)

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Plot 7-3 6dB BW & 99% OBW Antenna 4a (20MHz BW 802.11n - Ch.6)



Plot 7-4 6dB BW & 99% OBW Antenna 4a (20MHz BW 802.11be(SU) - Ch.6)

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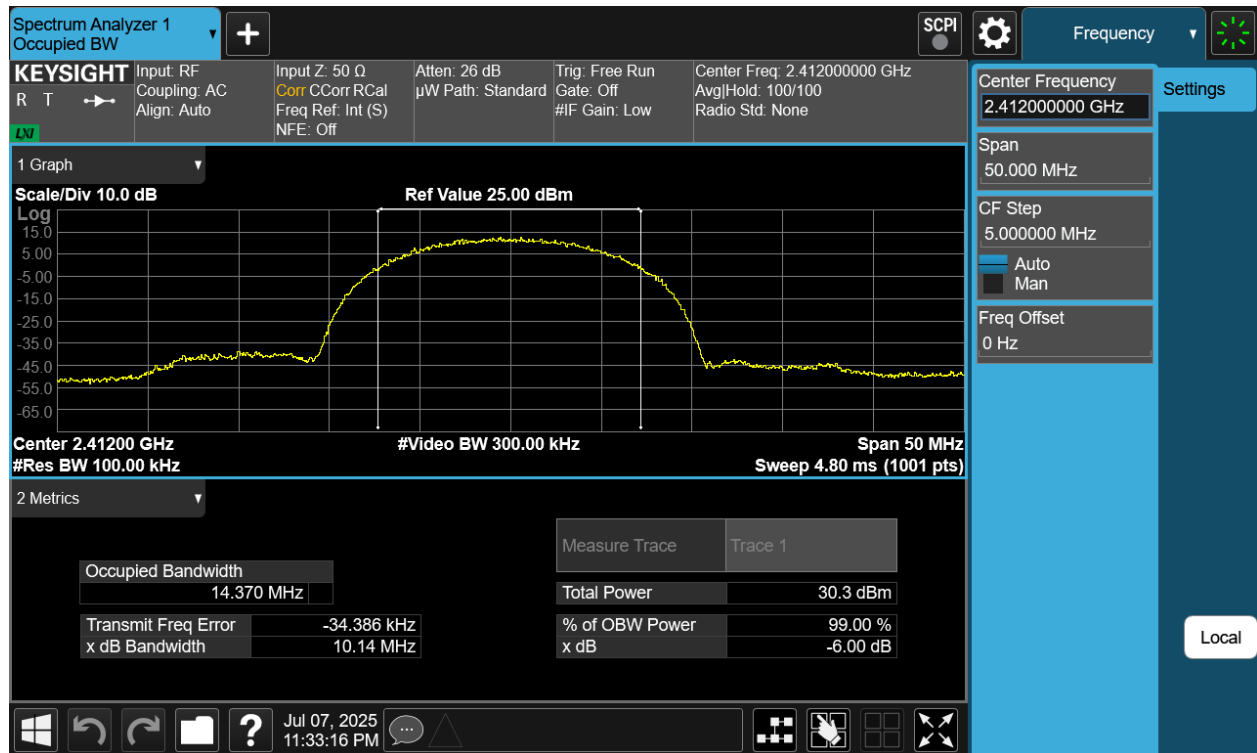
7.2.2 Antenna 2a 6dB BW and 99% OBW Measurements

Frequency [MHz]	Channel	802.11 MODE	Data Rate	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass/Fail
2412	1	b	11Mbps	14.37	10.14	0.50	Pass
2437	6	b	11Mbps	14.25	10.30	0.50	Pass
2462	11	b	11Mbps	14.42	11.09	0.50	Pass
2412	1	g	6Mbps	17.69	17.64	0.50	Pass
2437	6	g	6Mbps	17.84	17.59	0.50	Pass
2462	11	g	6Mbps	17.69	17.63	0.50	Pass
2412	1	n	MCS0	17.68	17.63	0.50	Pass
2437	6	n	MCS0	17.86	17.59	0.50	Pass
2462	11	n	MCS0	17.68	17.63	0.50	Pass
2412	1	be (SU)	MCS5	18.95	19.12	0.50	Pass
2437	6	be (SU)	MCS0	19.05	18.99	0.50	Pass
2462	11	be (SU)	MCS0	18.95	19.09	0.50	Pass

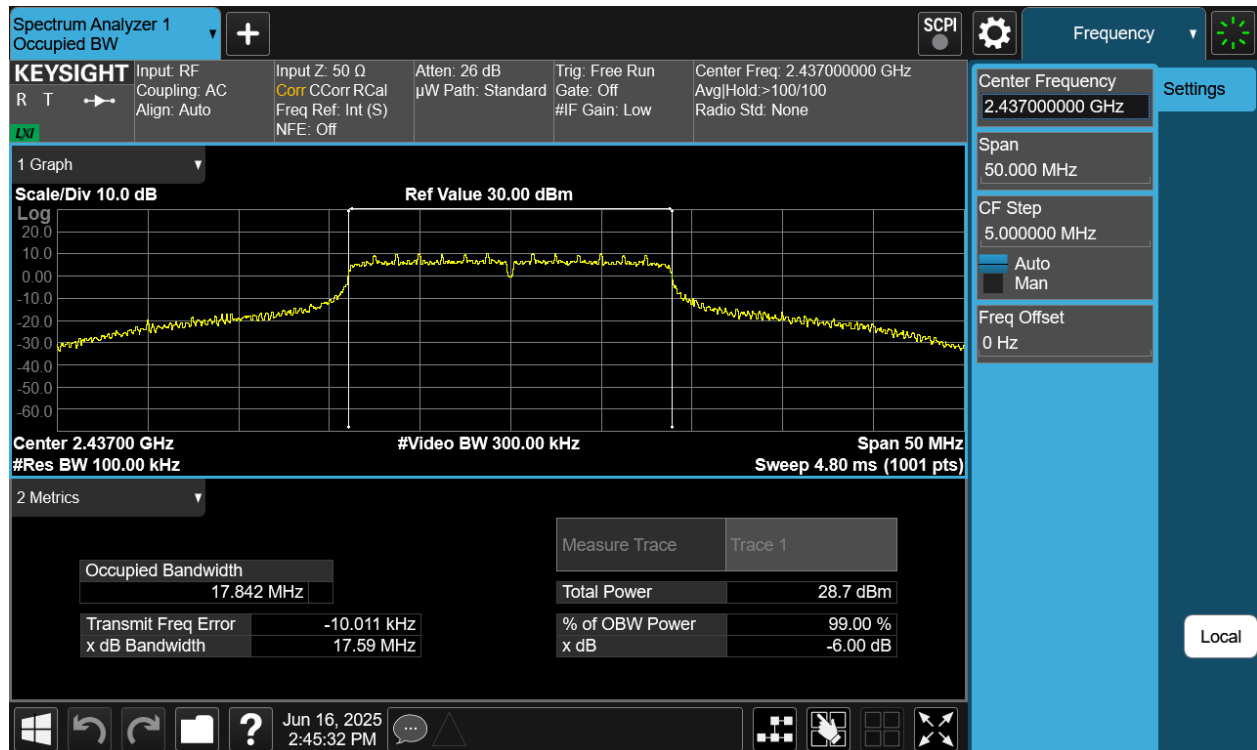
Table 7-3. Conducted Bandwidth Measurements Antenna 2a

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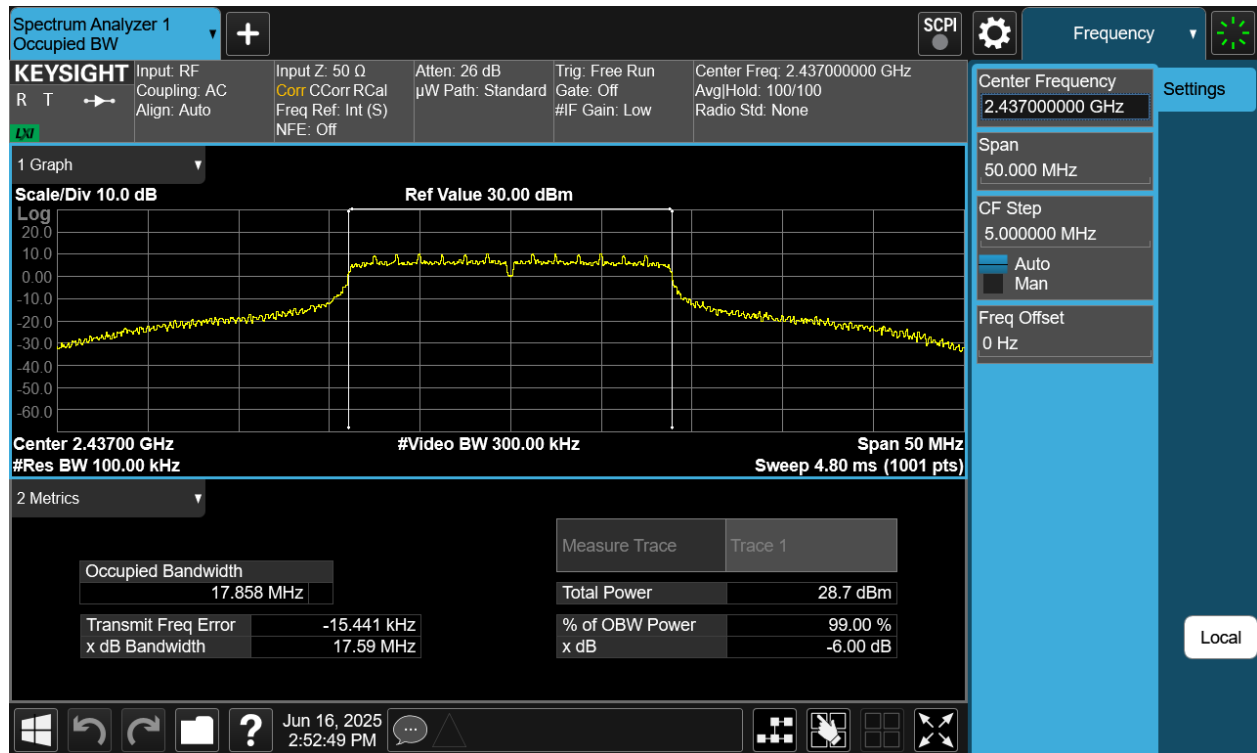


Plot 7-5 6dB BW & 99% OBW Antenna 2a (20MHz BW 802.11b - Ch.1)

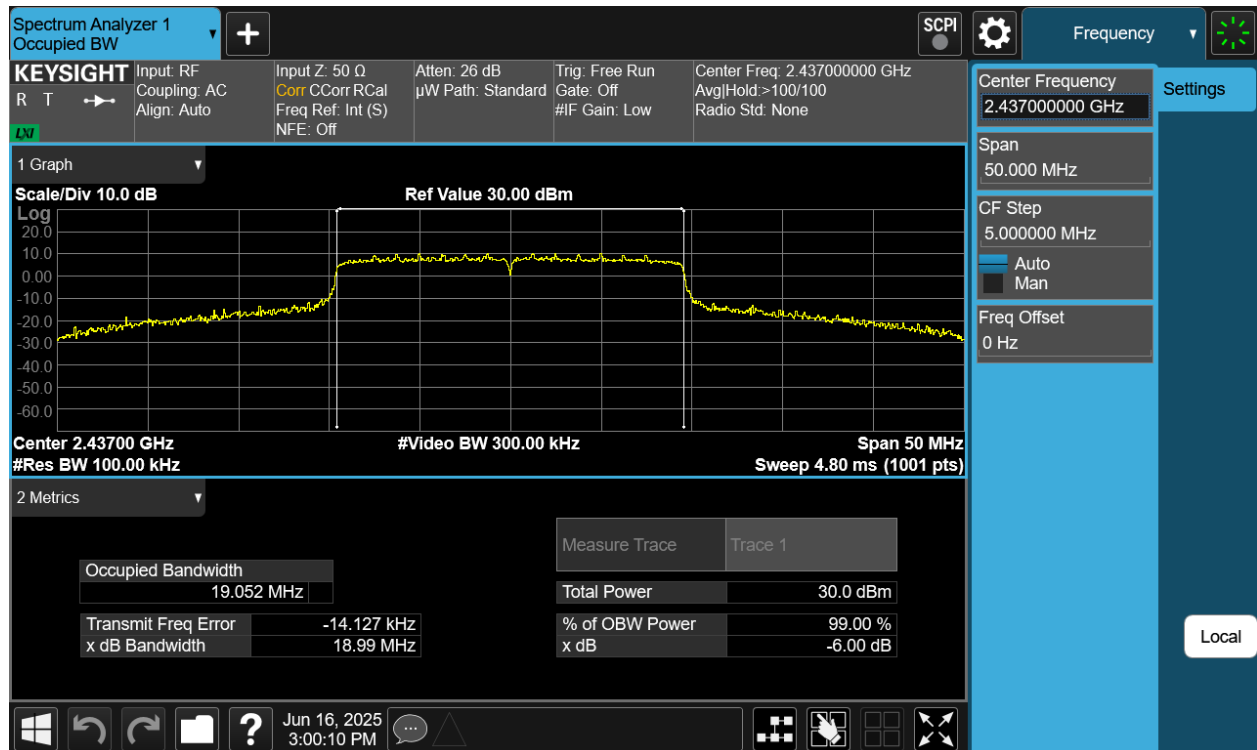


Plot 7-6 6dB BW & 99% OBW Antenna 2a (20MHz BW 802.11g - Ch.6)

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Plot 7-7 6dB BW & 99% OBW Antenna 2a (20MHz BW 802.11n - Ch.6)



Plot 7-8 6dB BW & 99% OBW Antenna 2a (20MHz BW 802.11be(SU) - Ch.6)

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7.3 Output Power Measurement

§15.247(b)(3); RSS-247 [5.4]

Test Overview and Limits

A transmitter antenna terminal of EUT is connected to the input of an RF power sensor. Measurement is made using a broadband power meter capable of making average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

The average 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 average 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 11.9.2.3.2 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 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 diagrams below.



Figure 7-2. Test Instrument & Measurement Setup for Power Meter Measurements

Test Notes

1. All data rates have been investigated, and tabular data has been reported for the worst-case data rate.

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7.3.1 Antenna 4a Output Power Measurement

§15.247(b.3); RSS-247 [5.4]

Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
2412	1	11Mbps	20.93	30.00	-9.07	2.40	23.33	36.02	-12.69
2417	2	11Mbps	20.79	30.00	-9.21	2.40	23.19	36.02	-12.83
2422	3	11Mbps	21.02	30.00	-8.98	2.40	23.42	36.02	-12.60
2427	4	11Mbps	21.16	30.00	-8.84	2.40	23.56	36.02	-12.46
2432	5	11Mbps	21.08	30.00	-8.92	2.40	23.48	36.02	-12.54
2437	6	11Mbps	21.31	30.00	-8.69	2.40	23.71	36.02	-12.31
2442	7	11Mbps	21.13	30.00	-8.87	2.40	23.53	36.02	-12.49
2447	8	11Mbps	21.33	30.00	-8.67	2.40	23.73	36.02	-12.29
2452	9	11Mbps	21.37	30.00	-8.63	2.40	23.77	36.02	-12.25
2457	10	11Mbps	21.22	30.00	-8.78	2.40	23.62	36.02	-12.40
2462	11	11Mbps	20.94	30.00	-9.06	2.40	23.34	36.02	-12.68
2467	12	11Mbps	16.62	30.00	-13.38	2.40	19.02	36.02	-17.00
2472	13	11Mbps	15.26	30.00	-14.74	2.40	17.66	36.02	-18.36

Table 7-4. Average Conducted Output Power Measurements Antenna 4a (802.11b)

Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
2412	1	6Mbps	15.03	30.00	-14.97	2.40	17.43	36.02	-18.59
2417	2	6Mbps	18.48	30.00	-11.52	2.40	20.88	36.02	-15.14
2422	3	6Mbps	19.59	30.00	-10.41	2.40	21.99	36.02	-14.03
2427	4	6Mbps	21.36	30.00	-8.64	2.40	23.76	36.02	-12.26
2432	5	6Mbps	21.33	30.00	-8.67	2.40	23.73	36.02	-12.29
2437	6	6Mbps	21.48	30.00	-8.52	2.40	23.88	36.02	-12.14
2442	7	6Mbps	20.36	30.00	-9.64	2.40	22.76	36.02	-13.26
2447	8	18Mbps	20.01	30.00	-9.99	2.40	22.41	36.02	-13.61
2452	9	6Mbps	18.94	30.00	-11.06	2.40	21.34	36.02	-14.68
2457	10	18Mbps	18.47	30.00	-11.53	2.40	20.87	36.02	-15.15
2462	11	6Mbps	16.26	30.00	-13.74	2.40	18.66	36.02	-17.36
2467	12	6Mbps	13.59	30.00	-16.41	2.40	15.99	36.02	-20.03
2472	13	6Mbps	7.11	30.00	-22.89	2.40	9.51	36.02	-26.51

Table 7-5. Average Conducted Output Power Measurements Antenna 4a (802.11g)

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Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
2412	1	MCS0	14.98	30.00	-15.02	2.40	17.38	36.02	-18.64
2417	2	MCS0	18.44	30.00	-11.56	2.40	20.84	36.02	-15.18
2422	3	MCS0	19.67	30.00	-10.33	2.40	22.07	36.02	-13.95
2427	4	MCS0	21.37	30.00	-8.63	2.40	23.77	36.02	-12.25
2432	5	MCS0	21.36	30.00	-8.65	2.40	23.76	36.02	-12.27
2437	6	MCS3	21.28	30.00	-8.73	2.40	23.68	36.02	-12.35
2442	7	MCS5	20.43	30.00	-9.57	2.40	22.83	36.02	-13.19
2447	8	MCS3	20.30	30.00	-9.70	2.40	22.70	36.02	-13.32
2452	9	MCS0	18.94	30.00	-11.06	2.40	21.34	36.02	-14.68
2457	10	MCS3	18.43	30.00	-11.57	2.40	20.83	36.02	-15.19
2462	11	MCS0	16.18	30.00	-13.82	2.40	18.58	36.02	-17.44
2467	12	MCS0	13.54	30.00	-16.46	2.40	15.94	36.02	-20.08
2472	13	MCS0	7.14	30.00	-22.86	2.40	9.54	36.02	-26.48

Table 7-6. Average Conducted Output Power Measurements Antenna 4a (802.11n)

Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
2412	1	MCS0	14.26	30.00	-15.74	2.40	16.66	36.02	-19.36
2417	2	MCS0	17.72	30.00	-12.28	2.40	20.12	36.02	-15.90
2422	3	MCS0	19.30	30.00	-10.70	2.40	21.70	36.02	-14.32
2427	4	MCS0	20.33	30.00	-9.67	2.40	22.73	36.02	-13.29
2432	5	MCS0	21.24	30.00	-8.76	2.40	23.64	36.02	-12.38
2437	6	MCS3	21.25	30.00	-8.75	2.40	23.65	36.02	-12.37
2442	7	MCS0	20.16	30.00	-9.84	2.40	22.56	36.02	-13.46
2447	8	MCS0	19.75	30.00	-10.25	2.40	22.15	36.02	-13.87
2452	9	MCS0	18.65	30.00	-11.35	2.40	21.05	36.02	-14.97
2457	10	MCS0	17.80	30.00	-12.20	2.40	20.20	36.02	-15.82
2462	11	MCS0	14.87	30.00	-15.13	2.40	17.27	36.02	-18.75
2467	12	MCS0	13.19	30.00	-16.81	2.40	15.59	36.02	-20.43
2472	13	MCS0	2.98	30.00	-27.03	2.40	5.38	36.02	-30.65

Table 7-7. Average Conducted Output Power Measurements Antenna 4a (802.11be-SU)

FCC ID: BCGA3358 IC: 579C-A3358	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170039-14-R1.BCG	Test Dates: 05/12/2025 - 07/19/2025	EUT Type: Tablet Device	Page 26 of 174

7.3.2 Antenna 2a Output Power Measurement

§15.247(b.3); RSS-247 [5.4]

Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
2412	1	11Mbps	20.99	30.00	-9.01	1.70	22.69	36.02	-13.33
2417	2	11Mbps	20.89	30.00	-9.11	1.70	22.59	36.02	-13.43
2422	3	11Mbps	21.31	30.00	-8.69	1.70	23.01	36.02	-13.01
2427	4	11Mbps	21.28	30.00	-8.73	1.70	22.98	36.02	-13.05
2432	5	11Mbps	21.25	30.00	-8.75	1.70	22.95	36.02	-13.07
2437	6	11Mbps	21.31	30.00	-8.69	1.70	23.01	36.02	-13.01
2442	7	11Mbps	21.33	30.00	-8.67	1.70	23.03	36.02	-12.99
2447	8	11Mbps	21.36	30.00	-8.64	1.70	23.06	36.02	-12.96
2452	9	11Mbps	21.41	30.00	-8.59	1.70	23.11	36.02	-12.91
2457	10	11Mbps	21.28	30.00	-8.72	1.70	22.98	36.02	-13.04
2462	11	11Mbps	20.82	30.00	-9.18	1.70	22.52	36.02	-13.50
2467	12	11Mbps	16.82	30.00	-13.18	1.70	18.52	36.02	-17.50
2472	13	11Mbps	15.15	30.00	-14.85	1.70	16.85	36.02	-19.17

Table 7-8. Average Conducted Output Power Measurements Antenna 2a (802.11b)

Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
2412	1	6Mbps	15.46	30.00	-14.54	1.70	17.16	36.02	-18.86
2417	2	6Mbps	18.83	30.00	-11.17	1.70	20.53	36.02	-15.49
2422	3	6Mbps	19.73	30.00	-10.27	1.70	21.43	36.02	-14.59
2427	4	6Mbps	20.50	30.00	-9.50	1.70	22.20	36.02	-13.82
2432	5	18Mbps	21.31	30.00	-8.69	1.70	23.01	36.02	-13.01
2437	6	18Mbps	21.28	30.00	-8.72	1.70	22.98	36.02	-13.04
2442	7	18Mbps	20.37	30.00	-9.63	1.70	22.07	36.02	-13.95
2447	8	6Mbps	20.39	30.00	-9.61	1.70	22.09	36.02	-13.93
2452	9	6Mbps	19.71	30.00	-10.29	1.70	21.41	36.02	-14.61
2457	10	6Mbps	18.67	30.00	-11.33	1.70	20.37	36.02	-15.65
2462	11	6Mbps	16.10	30.00	-13.90	1.70	17.80	36.02	-18.22
2467	12	6Mbps	13.30	30.00	-16.70	1.70	15.00	36.02	-21.02
2472	13	18Mbps	7.25	30.00	-22.75	1.70	8.95	36.02	-27.07

Table 7-9. Average Conducted Output Power Measurements Antenna 2a (802.11g)

FCC ID: BCGA3358 IC: 579C-A3358			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
2412	1	MCS0	15.45	30.00	-14.55	1.70	17.15	36.02	-18.87
2417	2	MCS0	18.86	30.00	-11.14	1.70	20.56	36.02	-15.46
2422	3	MCS0	19.75	30.00	-10.25	1.70	21.45	36.02	-14.57
2427	4	MCS3	20.28	30.00	-9.72	1.70	21.98	36.02	-14.04
2432	5	MCS5	21.29	30.00	-8.71	1.70	22.99	36.02	-13.03
2437	6	MCS0	21.28	30.00	-8.72	1.70	22.98	36.02	-13.04
2442	7	MCS0	20.38	30.00	-9.62	1.70	22.08	36.02	-13.94
2447	8	MCS0	20.39	30.00	-9.61	1.70	22.09	36.02	-13.93
2452	9	MCS0	19.69	30.00	-10.31	1.70	21.39	36.02	-14.63
2457	10	MCS0	18.68	30.00	-11.33	1.70	20.38	36.02	-15.65
2462	11	MCS0	16.10	30.00	-13.90	1.70	17.80	36.02	-18.22
2467	12	MCS0	13.28	30.00	-16.72	1.70	14.98	36.02	-21.04
2472	13	MCS0	7.10	30.00	-22.90	1.70	8.80	36.02	-27.22

Table 7-10. Average Conducted Output Power Measurements Antenna 2a (802.11n)

Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
2412	1	MCS3	14.96	30.00	-15.04	1.70	16.66	36.02	-19.36
2417	2	MCS0	17.70	30.00	-12.30	1.70	19.40	36.02	-16.62
2422	3	MCS0	19.21	30.00	-10.79	1.70	20.91	36.02	-15.11
2427	4	MCS3	20.20	30.00	-9.80	1.70	21.90	36.02	-14.12
2432	5	MCS0	21.25	30.00	-8.75	1.70	22.95	36.02	-13.07
2437	6	MCS5	21.38	30.00	-8.62	1.70	23.08	36.02	-12.94
2442	7	MCS0	20.27	30.00	-9.73	1.70	21.97	36.02	-14.05
2447	8	MCS3	19.78	30.00	-10.22	1.70	21.48	36.02	-14.54
2452	9	MCS3	18.95	30.00	-11.05	1.70	20.65	36.02	-15.37
2457	10	MCS0	16.83	30.00	-13.17	1.70	18.53	36.02	-17.49
2462	11	MCS0	15.41	30.00	-14.59	1.70	17.11	36.02	-18.91
2467	12	MCS3	12.31	30.00	-17.70	1.70	14.01	36.02	-22.02
2472	13	MCS0	4.79	30.00	-25.21	1.70	6.49	36.02	-29.53

Table 7-11. Average Conducted Output Power Measurements Antenna 2a (802.11be-SU)

FCC ID: BCGA3358 IC: 579C-A3358		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.3.3 CDD Output Power Measurement

§15.247(b.3); RSS-247 [5.4]

Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna 4a	Antenna 2a	Summed						
2412	1	1Mbps	20.45	20.31	23.39	30.00	-6.61	5.07	28.46	36.02	-7.56
2417	2	1Mbps	20.32	20.21	23.27	30.00	-6.73	5.07	28.34	36.02	-7.68
2422	3	1Mbps	20.76	20.84	23.81	30.00	-6.19	5.07	28.88	36.02	-7.14
2427	4	1Mbps	21.35	21.16	24.27	30.00	-5.73	5.07	29.34	36.02	-6.68
2432	5	1Mbps	21.26	21.21	24.25	30.00	-5.75	5.07	29.32	36.02	-6.70
2437	6	1Mbps	21.02	21.21	24.13	30.00	-5.87	5.07	29.20	36.02	-6.82
2442	7	1Mbps	21.13	21.26	24.20	30.00	-5.80	5.07	29.27	36.02	-6.75
2447	8	1Mbps	21.25	21.35	24.31	30.00	-5.69	5.07	29.38	36.02	-6.64
2452	9	1Mbps	21.39	21.29	24.35	30.00	-5.65	5.07	29.42	36.02	-6.60
2457	10	1Mbps	20.74	20.92	23.84	30.00	-6.16	5.07	28.91	36.02	-7.11
2462	11	1Mbps	20.46	20.32	23.40	30.00	-6.60	5.07	28.47	36.02	-7.55
2467	12	1Mbps	16.32	16.36	19.35	30.00	-10.65	5.07	24.42	36.02	-11.60
2472	13	1Mbps	14.94	14.77	17.87	30.00	-12.13	5.07	22.94	36.02	-13.08

Table 7-12. Average Conducted Output Power Measurements CDD (802.11b)

Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna 4a	Antenna 2a	Summed						
2412	1	6Mbps	14.26	14.21	17.24	30.00	-12.76	5.07	22.31	36.02	-13.71
2417	2	6Mbps	17.75	17.87	20.82	30.00	-9.18	5.07	25.89	36.02	-10.13
2422	3	6Mbps	19.48	19.44	22.47	30.00	-7.53	5.07	27.54	36.02	-8.48
2427	4	18Mbps	20.13	20.45	23.31	30.00	-6.69	5.07	28.38	36.02	-7.64
2432	5	36Mbps	21.32	21.28	24.31	30.00	-5.69	5.07	29.38	36.02	-6.64
2437	6	6Mbps	21.30	21.41	24.36	30.00	-5.64	5.07	29.43	36.02	-6.59
2442	7	6Mbps	20.18	20.40	23.30	30.00	-6.70	5.07	28.37	36.02	-7.65
2447	8	6Mbps	19.76	19.63	22.71	30.00	-7.29	5.07	27.78	36.02	-8.24
2452	9	18Mbps	19.30	19.30	22.31	30.00	-7.69	5.07	27.38	36.02	-8.64
2457	10	6Mbps	18.55	18.66	21.61	30.00	-8.39	5.07	26.68	36.02	-9.34
2462	11	6Mbps	16.14	16.14	19.15	30.00	-10.85	5.07	24.22	36.02	-11.80
2467	12	6Mbps	12.95	12.76	15.87	30.00	-14.13	5.07	20.94	36.02	-15.08
2472	13	18Mbps	5.80	5.80	8.81	30.00	-21.19	5.07	13.88	36.02	-22.14

Table 7-13. Average Conducted Output Power Measurements CDD (802.11g)

Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna 4a	Antenna 2a	Summed						
2412	1	MCS0	14.19	14.28	17.25	30.00	-12.75	5.07	22.32	36.02	-13.70
2417	2	MCS0	17.70	17.87	20.80	30.00	-9.20	5.07	25.87	36.02	-10.15
2422	3	MCS0	19.19	19.21	22.21	30.00	-7.79	5.07	27.28	36.02	-8.74
2427	4	MCS3	20.37	20.31	23.35	30.00	-6.65	5.07	28.42	36.02	-7.60
2432	5	MCS0	21.36	21.31	24.34	30.00	-5.66	5.07	29.41	36.02	-6.61
2437	6	MCS0	21.25	21.43	24.35	30.00	-5.65	5.07	29.42	36.02	-6.60
2442	7	MCS0	20.14	20.38	23.27	30.00	-6.73	5.07	28.34	36.02	-7.68
2447	8	MCS0	19.78	19.70	22.75	30.00	-7.25	5.07	27.82	36.02	-8.20
2452	9	MCS3	19.16	19.30	22.24	30.00	-7.76	5.07	27.31	36.02	-8.71
2457	10	MCS0	18.59	18.61	21.61	30.00	-8.39	5.07	26.68	36.02	-9.34
2462	11	MCS0	16.11	16.18	19.16	30.00	-10.84	5.07	24.23	36.02	-11.79
2467	12	MCS0	12.86	12.76	15.82	30.00	-14.18	5.07	20.89	36.02	-15.13
2472	13	MCS0	5.80	5.80	8.81	30.00	-21.19	5.07	13.88	36.02	-22.14

Table 7-14. Average Conducted Output Power Measurements CDD (802.11n)

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Freq [MHz]	Channel	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna 4a	Antenna 2a	Summed						
2412	1	MCS0	14.25	14.17	17.22	30.00	-12.78	5.07	22.29	36.02	-13.73
2417	2	MCS0	17.29	17.20	20.25	30.00	-9.75	5.07	25.32	36.02	-10.70
2422	3	MCS0	18.87	18.69	21.79	30.00	-8.21	5.07	26.86	36.02	-9.16
2427	4	MCS0	19.74	19.65	22.71	30.00	-7.29	5.07	27.78	36.02	-8.24
2432	5	MCS0	21.20	21.23	24.22	30.00	-5.78	5.07	29.29	36.02	-6.73
2437	6	MCS5	21.17	21.38	24.29	30.00	-5.71	5.07	29.36	36.02	-6.66
2442	7	MCS3	20.18	20.25	23.22	30.00	-6.78	5.07	28.29	36.02	-7.73
2447	8	MCS0	19.79	19.73	22.77	30.00	-7.23	5.07	27.84	36.02	-8.18
2452	9	MCS0	18.44	18.66	21.56	30.00	-8.44	5.07	26.63	36.02	-9.39
2457	10	MCS0	16.98	16.78	19.89	30.00	-10.11	5.07	24.96	36.02	-11.06
2462	11	MCS0	15.29	15.12	18.21	30.00	-11.79	5.07	23.28	36.02	-12.74
2467	12	MCS0	12.49	12.32	15.42	30.00	-14.58	5.07	20.49	36.02	-15.53
2472	13	MCS0	2.51	2.75	5.64	30.00	-24.36	5.07	10.71	36.02	-25.31

Table 7-15. Average Conducted Output Power Measurements CDD (802.11be-SU)

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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 Section 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 2412MHz the average conducted output power was measured to be 20.45 dBm for Antenna 4a and 20.31 dBm for Antenna 2a.

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

$$(20.45 \text{ dBm} + 20.31 \text{ dBm}) = (110.917 \text{ mW} + 107.399 \text{ mW}) = 218.316 \text{ mW} = 23.39 \text{ dBm}$$

Sample e.i.r.p. Calculation:

At 2412MHz, the average conducted output power was calculated to be 23.39 dBm with directional gain of 5.07 dBi.

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

$$23.39 \text{ dBm} + 5.07 \text{ dBi} = 28.46 \text{ dBm}$$

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7.4 Power Spectral Density

§15.247(e); RSS-247 [5.2]

Test Overview and Limit

The power spectral density is measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated and the worst case configuration results are reported in this section.

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

Test Procedure Used

ANSI C63.10-2020 – Subclause 11.10.3 & 11.10.5 Method AVGPSD-1 & AVGPSD-2

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 OBW
3. RBW = 3kHz
4. VBW $\geq 3 \times$ RBW
5. Detector = power averaging (rms)
6. Number of sweep points $\geq 2 \times$ (span/RBW)
7. Sweep time = auto couple
8. Employ trace averaging (rms) mode over a minimum of 100 traces
9. Use the peak marker function to determine the maximum amplitude level

Test Setup

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

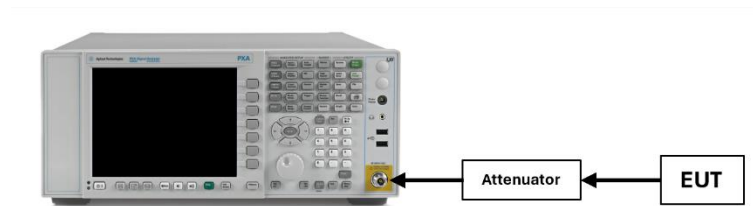


Figure 7-3. Test Instrument & Measurement Setup

Test Notes

1. All data rates and channels were investigated, and tabular data has been reported. Only the worst-case plot was reported.

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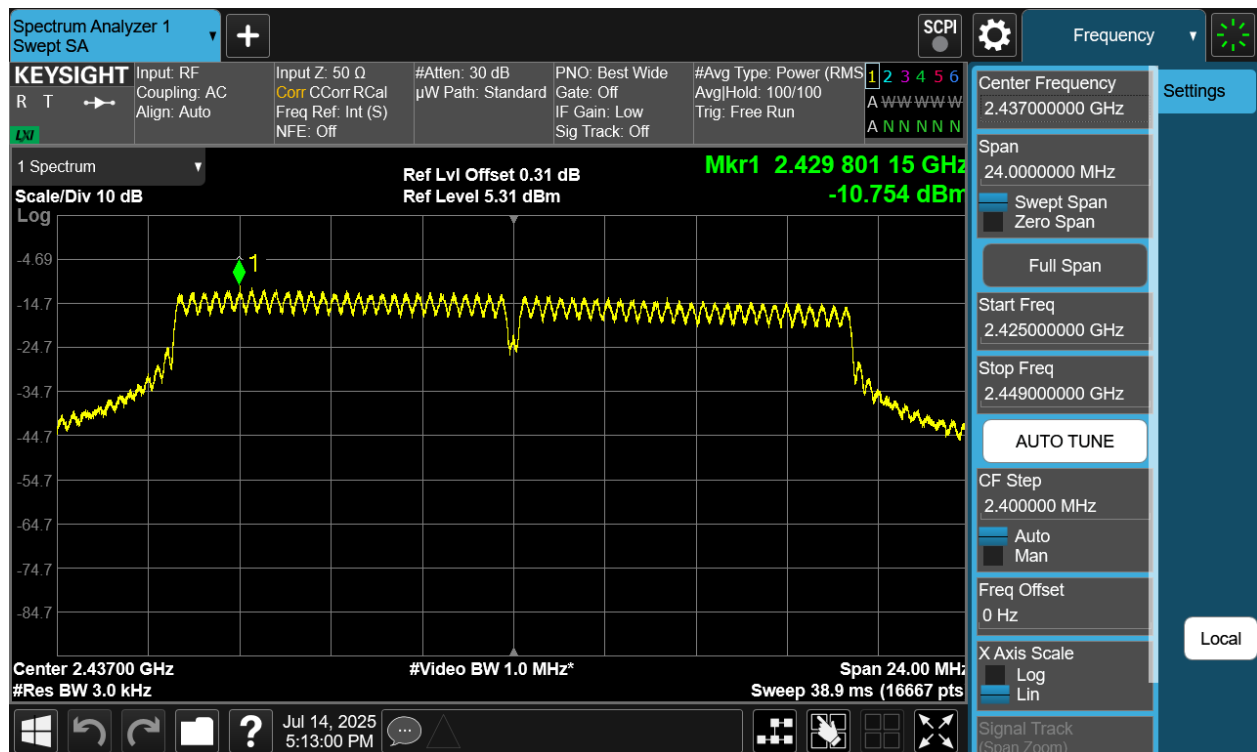
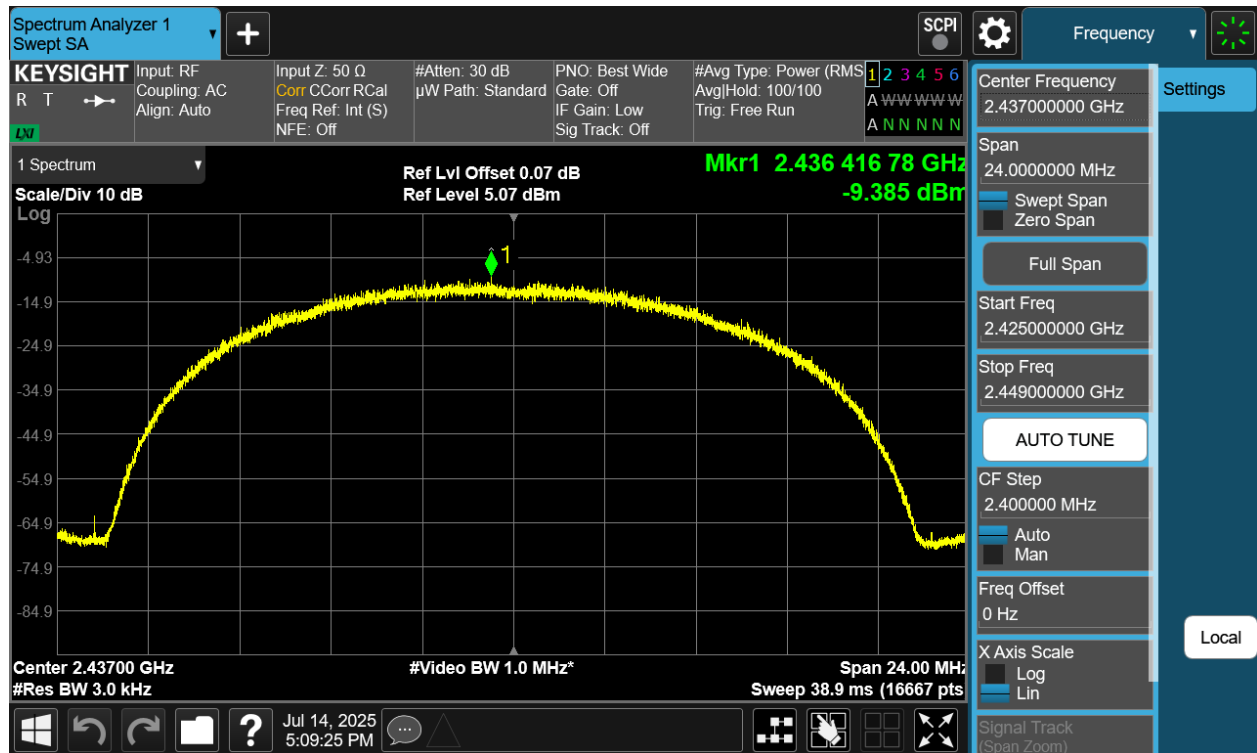
7.4.1 Antenna 4a Power Spectral Density Measurements

Frequency [MHz]	Channel No.	802.11 MODE	Data Rate	Measured Power Density [dBm/3kHz]	Max Power Density [dBm/3kHz]	Margin [dB]
2412	1	b	11Mbps	-10.48	8.00	-18.48
2437	6	b	11Mbps	-9.39	8.00	-17.39
2462	11	b	11Mbps	-10.25	8.00	-18.25
2412	1	g	18Mbps	-18.00	8.00	-26.00
2437	6	g	36Mbps	-10.75	8.00	-18.75
2462	11	g	6Mbps	-16.87	8.00	-24.87
2412	1	n	MCS5	-18.23	8.00	-26.23
2437	6	n	MCS5	-10.69	8.00	-18.69
2462	11	n	MCS0	-16.77	8.00	-24.77
2412	1	be (SU)	MCS5	-19.64	8.00	-27.64
2437	6	be (SU)	MCS5	-13.26	8.00	-21.26
2462	11	be (SU)	MCS0	-18.32	8.00	-26.32

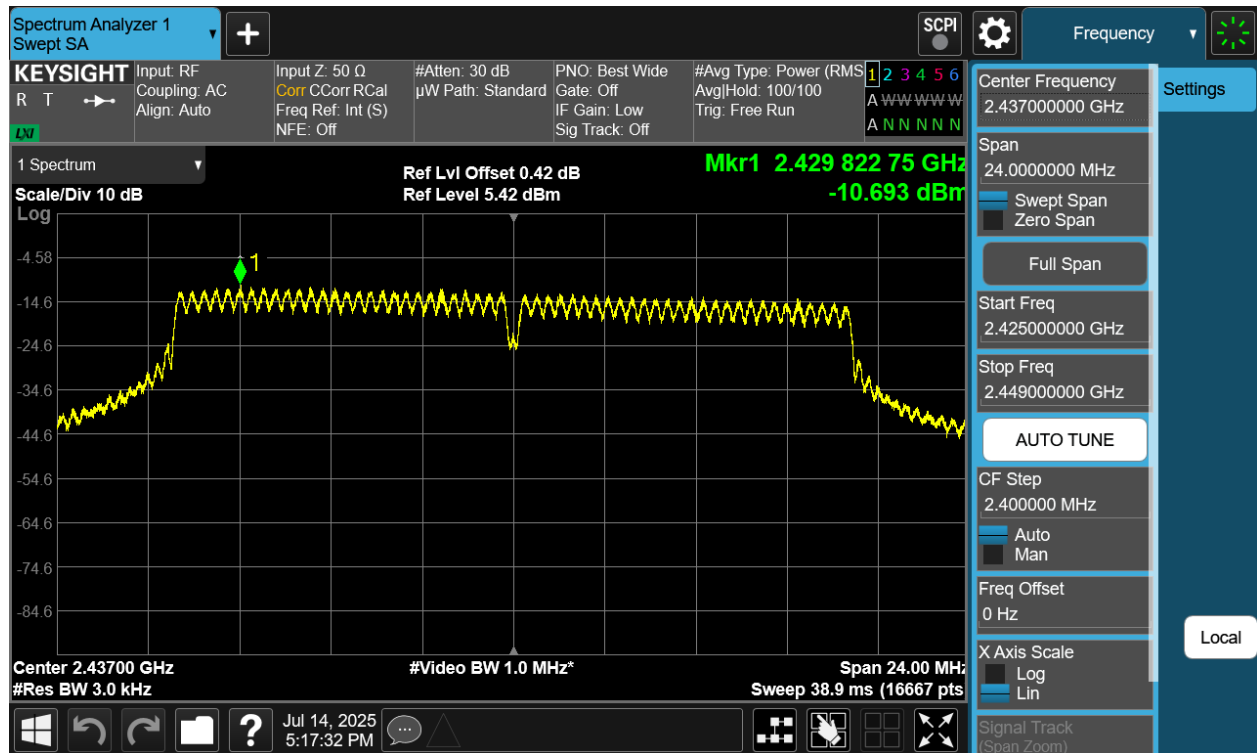
Table 7-16. Conducted Power Density Measurements Antenna 4a

FCC ID: BCGA3358 IC: 579C-A3358		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Test Report S/N: 1C2504170039-14-R1.BCG	Test Dates: 05/12/2025 - 07/19/2025	EUT Type: Tablet Device	Page 35 of 174

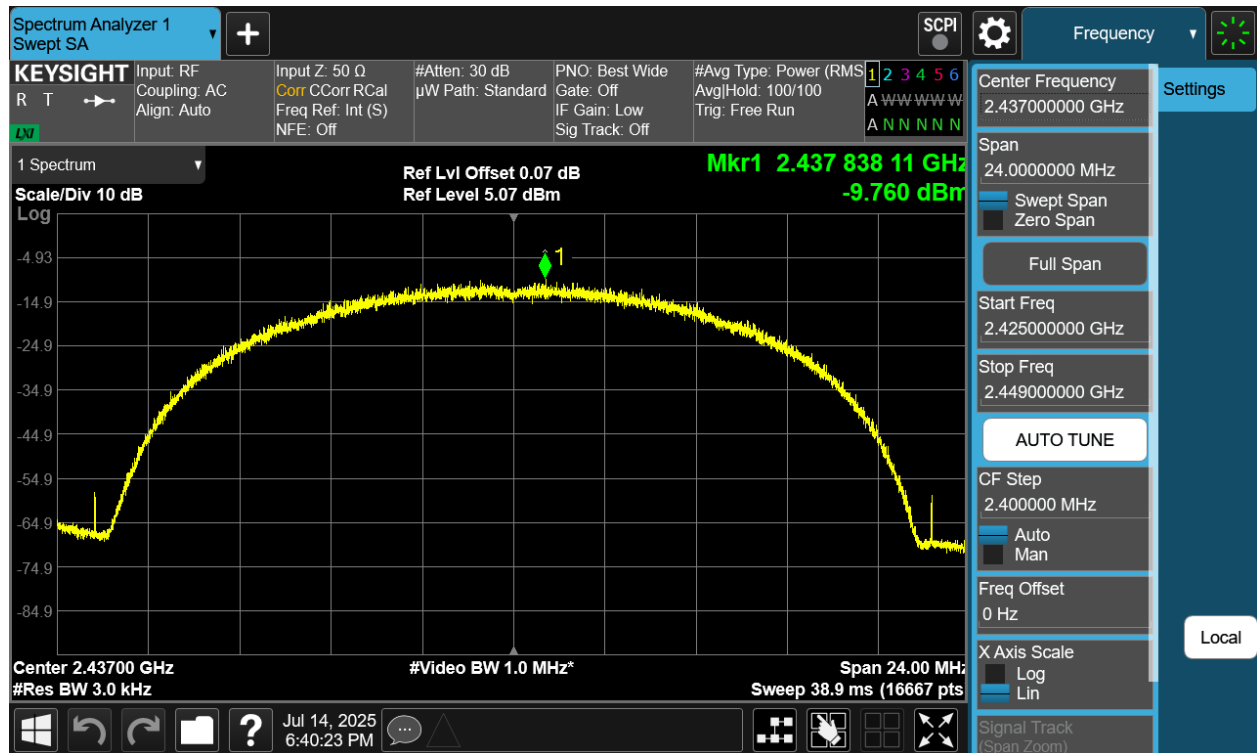
7.4.2 Antenna 2a Power Spectral Density Measurements

Frequency [MHz]	Channel No.	802.11 MODE	Data Rate	Measured Power Density [dBm/3kHz]	Max Power Density [dBm/3kHz]	Margin [dB]
2412	1	b	11Mbps	-11.01	8.00	-19.01
2437	6	b	11Mbps	-9.76	8.00	-17.76
2462	11	b	11Mbps	-10.48	8.00	-18.48
2412	1	g	6Mbps	-19.30	8.00	-27.30
2437	6	g	18Mbps	-12.60	8.00	-20.60
2462	11	g	6Mbps	-18.11	8.00	-26.11
2412	1	n	MCS5	-18.80	8.00	-26.80
2437	6	n	MCS3	-12.56	8.00	-20.56
2462	11	n	MCS0	-18.35	8.00	-26.35
2412	1	be (SU)	MCS0	-19.19	8.00	-27.19
2437	6	be (SU)	MCS5	-13.15	8.00	-21.15
2462	11	be (SU)	MCS0	-20.02	8.00	-28.02

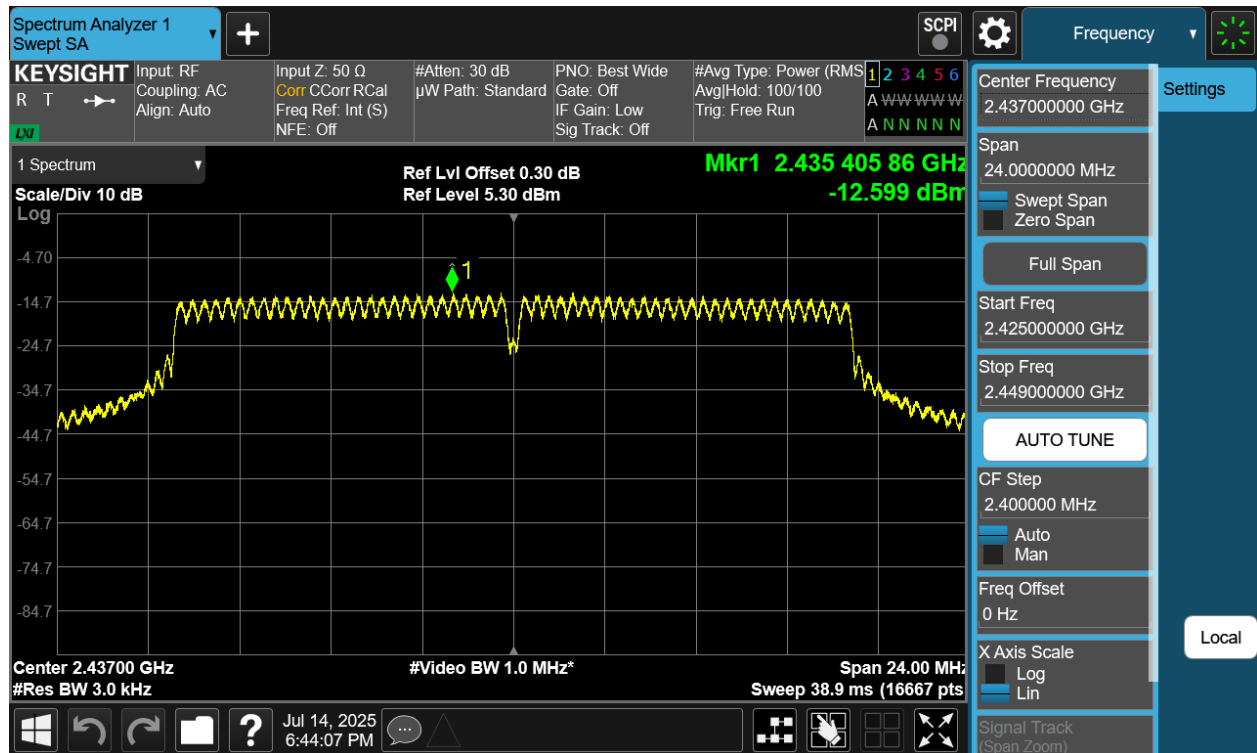
Table 7-17. Conducted Power Density Measurements Antenna 2a

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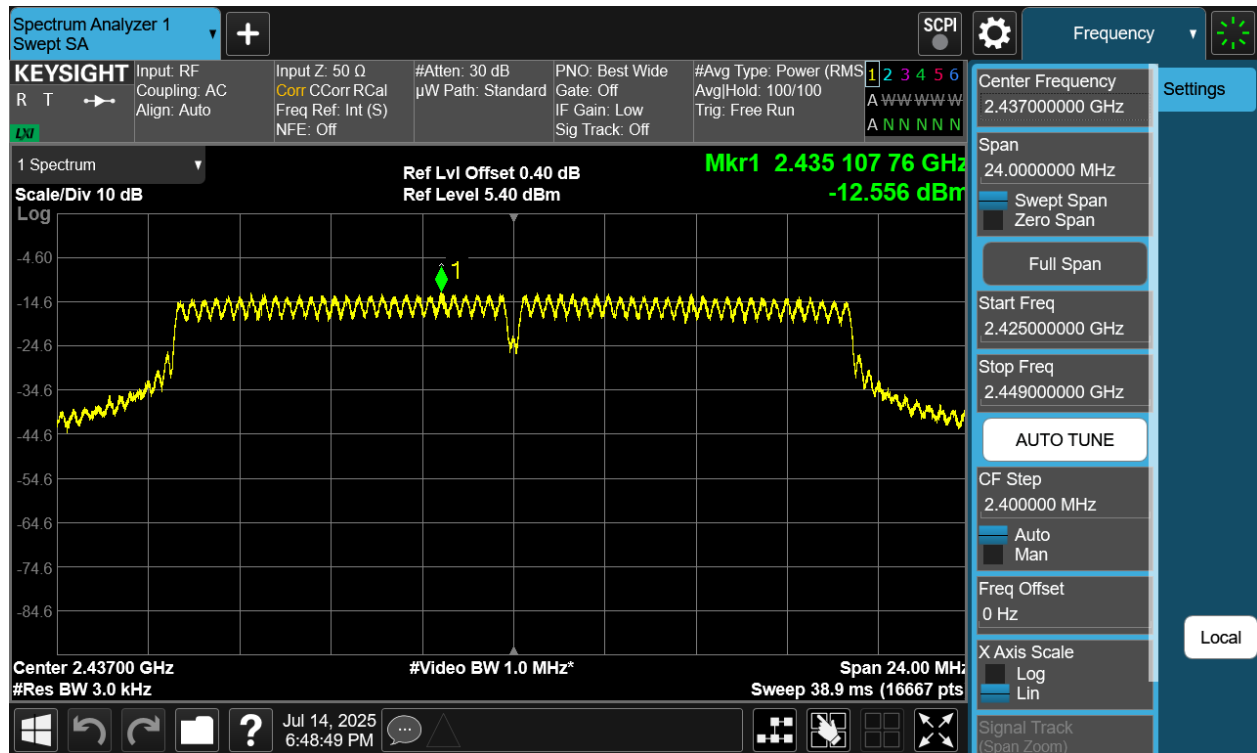


Plot 7-13 PSD Antenna 2a (20MHz BW 802.11b - Ch.6)

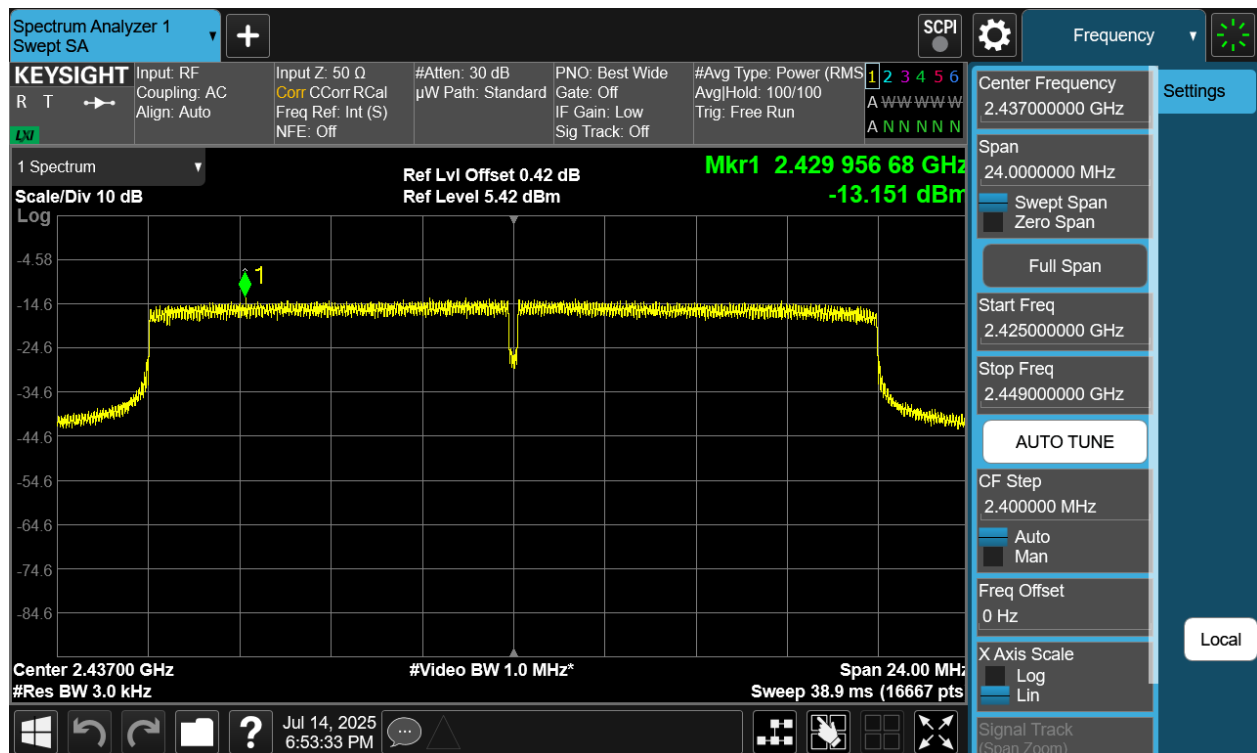


Plot 7-14 PSD Antenna 2a (20MHz BW 802.11g - Ch.6)

FCC ID: BCGA3358 IC: 579C-A3358		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-15 PSD Antenna 2a (20MHz BW 802.11n - Ch.6)



Plot 7-16 PSD Antenna 2a (20MHz BW 802.11be(SU) - Ch.6)

FCC ID: BCGA3358 IC: 579C-A3358		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170039-14-R1.BCG	Test Dates: 05/12/2025 - 07/19/2025	EUT Type: Tablet Device	Page 38 of 174

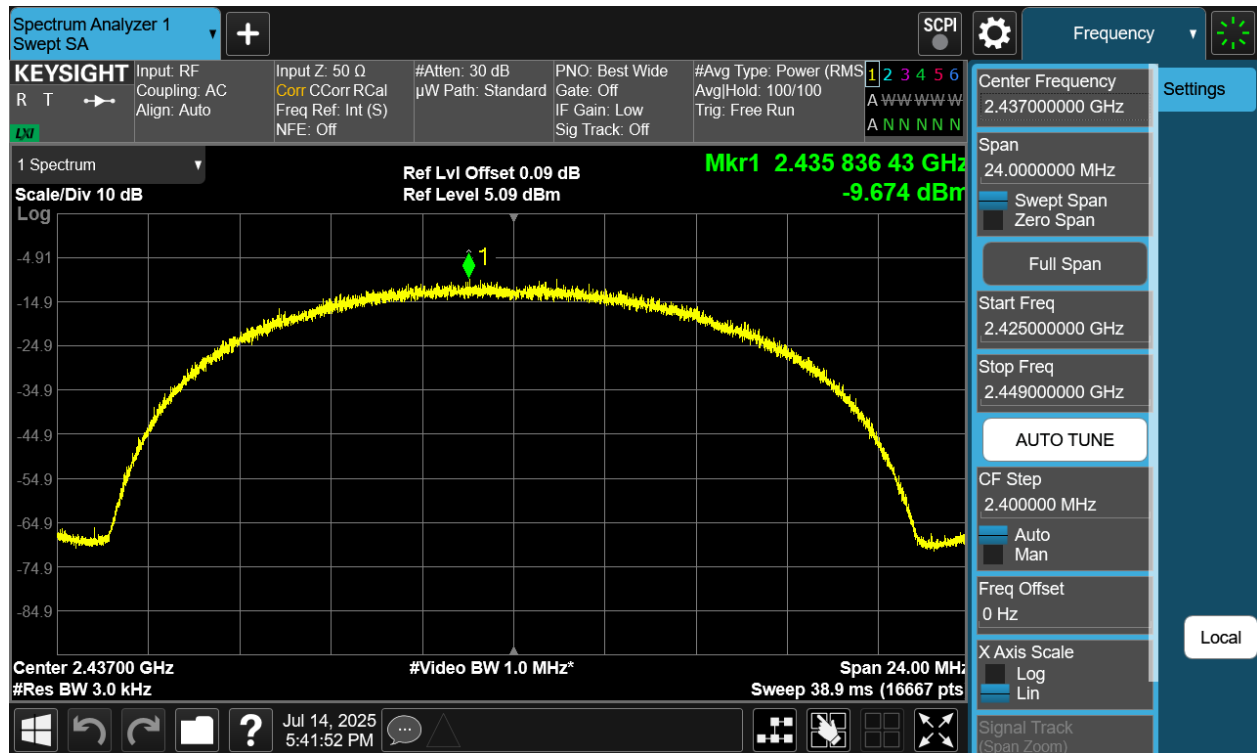
7.4.3 CDD Power Spectral Density Measurements

Frequency [MHz]	Channel No.	802.11 MODE	Mode	Data Rate	Antenna 4a Power Density [dBm/3kHz]	Antenna 2a Power Density [dBm/3kHz]	Summed Power Density [dBm/3kHz]	Max Power Density [dBm/3kHz]	Margin [dB]
2412	1	b	CDD	11Mbps	-10.54	-10.94	-7.72	8.00	-15.72
2437	6	b	CDD	11Mbps	-9.67	-9.90	-6.77	8.00	-14.77
2462	11	b	CDD	11Mbps	-10.33	-11.40	-7.82	8.00	-15.82
2412	1	g	CDD	36Mbps	-18.63	-20.07	-16.28	8.00	-24.28
2437	6	g	CDD	6Mbps	-11.32	-12.78	-8.98	8.00	-16.98
2462	11	g	CDD	6Mbps	-17.56	-18.50	-15.00	8.00	-23.00
2412	1	n	CDD	MCS5	-18.43	-19.92	-16.10	8.00	-24.10
2437	6	n	CDD	MCS0	-11.17	-12.38	-8.72	8.00	-16.72
2462	11	n	CDD	MCS0	-17.66	-18.27	-14.95	8.00	-22.95
2412	1	be (SU)	CDD	MCS0	-20.21	-21.40	-17.75	8.00	-25.75
2437	6	be (SU)	CDD	MCS3	-11.75	-13.35	-9.47	8.00	-17.47
2462	11	be (SU)	CDD	MCS0	-18.90	-20.02	-16.42	8.00	-24.42

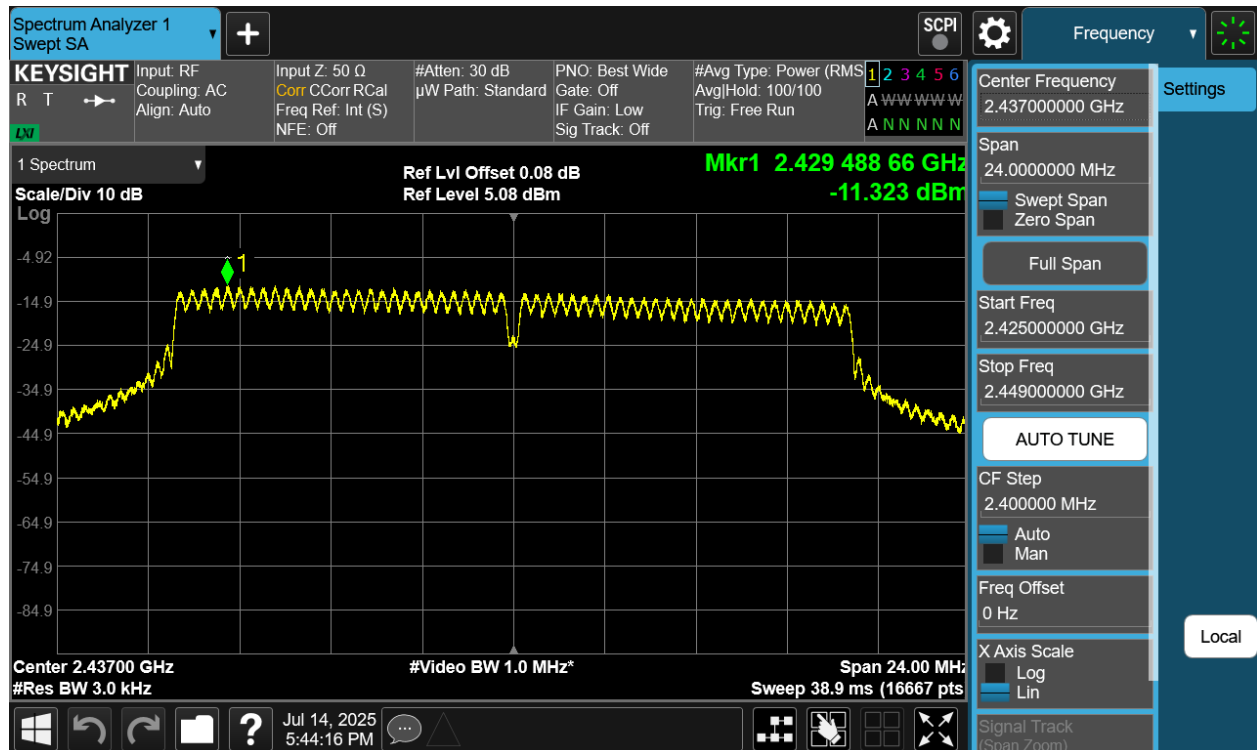
Table 7-18.CDD Conducted Power Density Measurements

FCC ID: BCGA3358 IC: 579C-A3358		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170039-14-R1.BCG	Test Dates: 05/12/2025 - 07/19/2025	EUT Type: Tablet Device	Page 39 of 174

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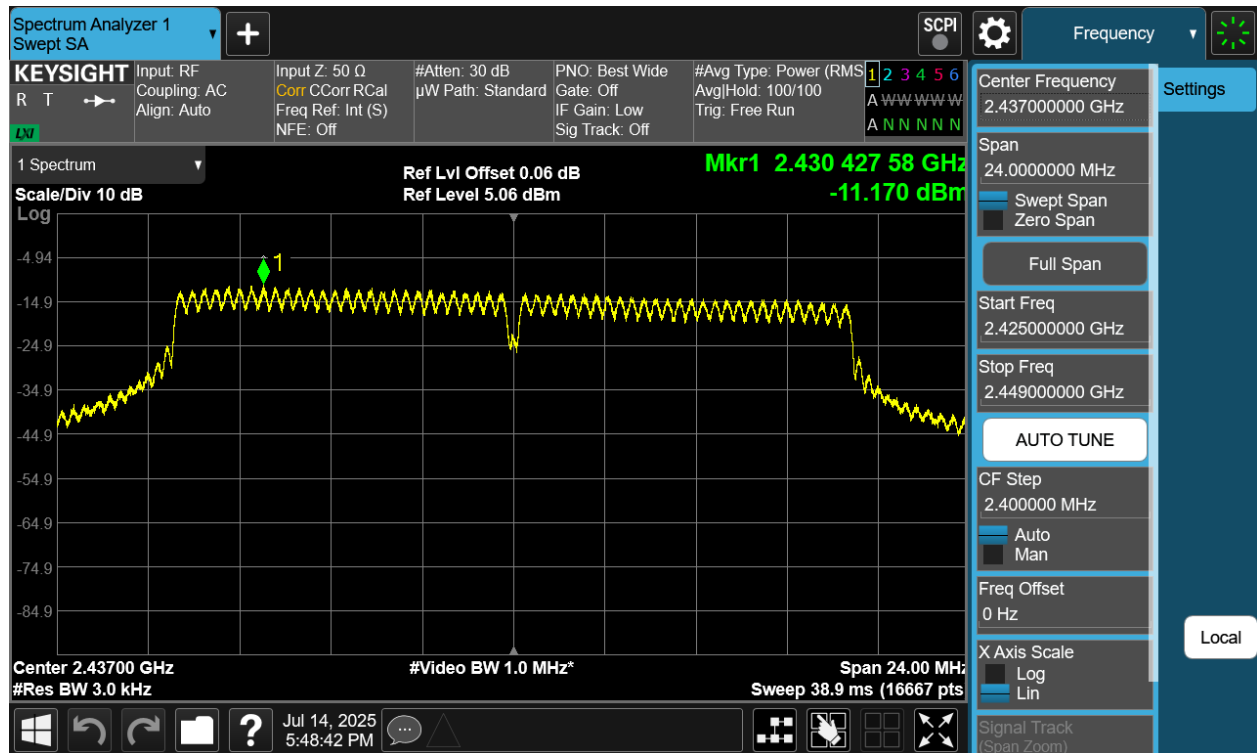


Plot 7-17 PSD CDD Antenna 4a (20MHz BW 802.11b - Ch.6)

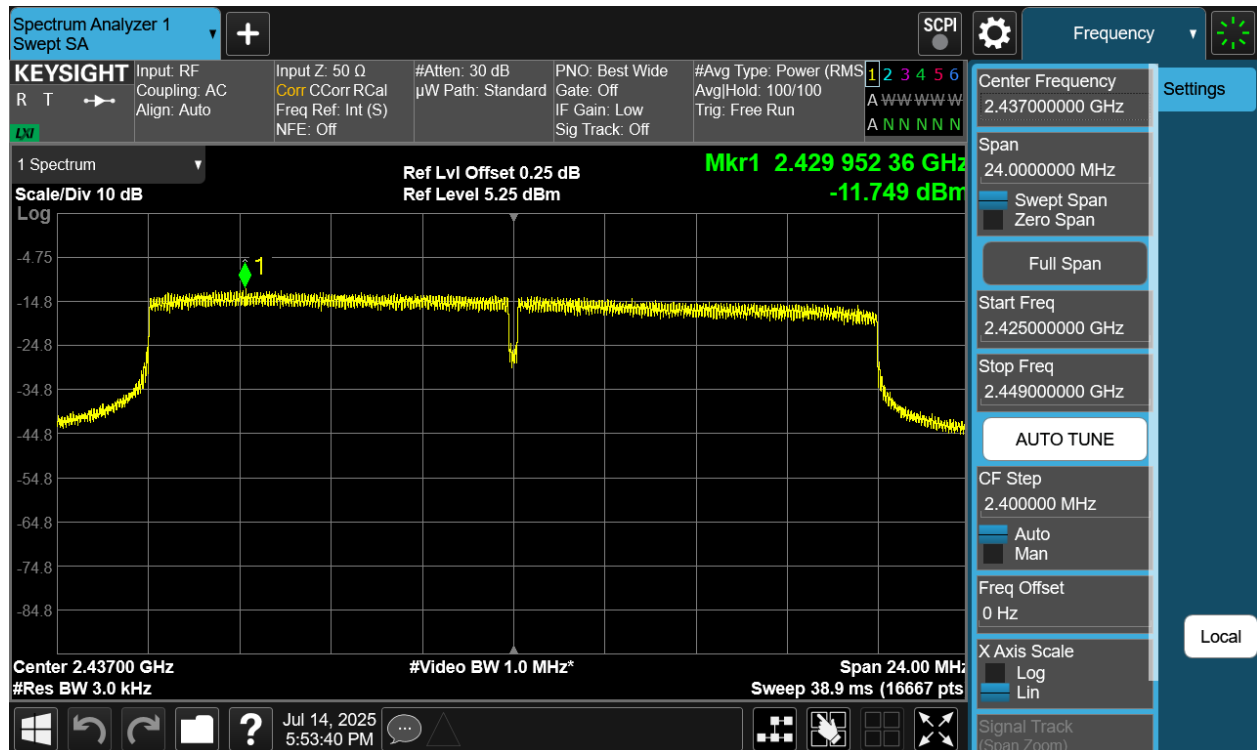


Plot 7-18 PSD CDD Antenna 4a (20MHz BW 802.11g - Ch.6)

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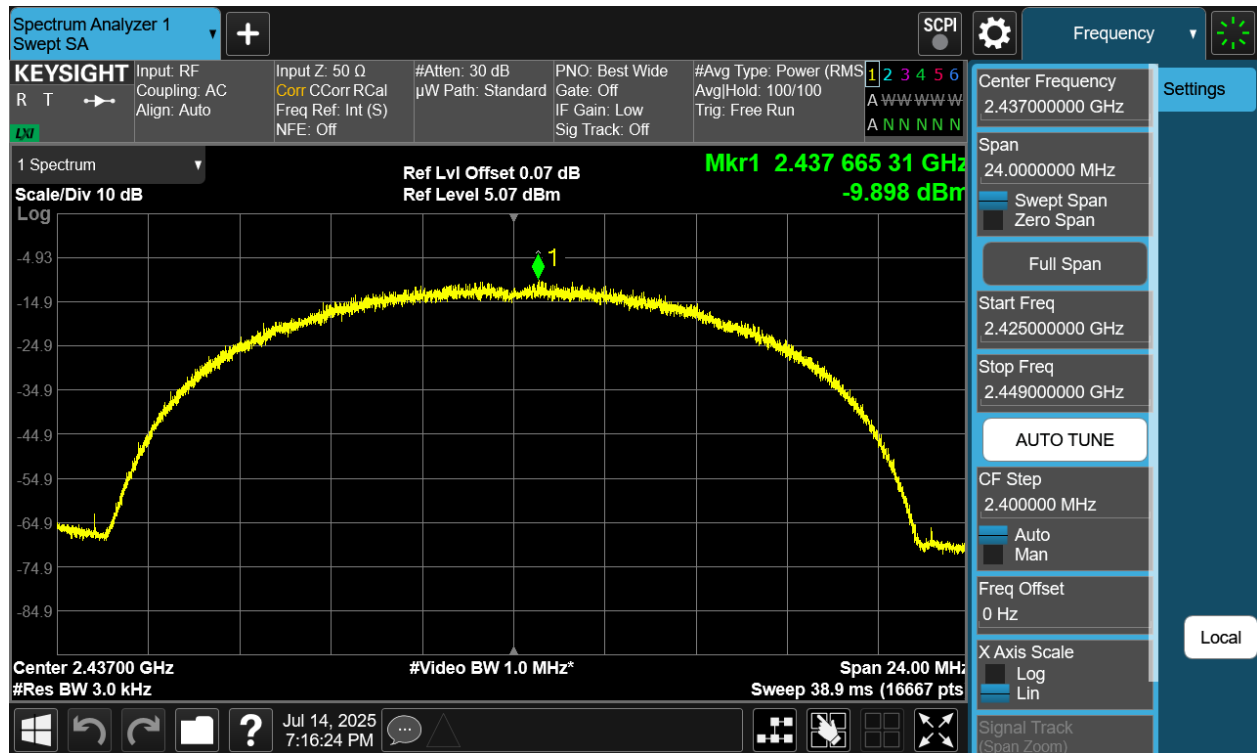


Plot 7-19 PSD CDD Antenna 4a (20MHz BW 802.11n - Ch.6)

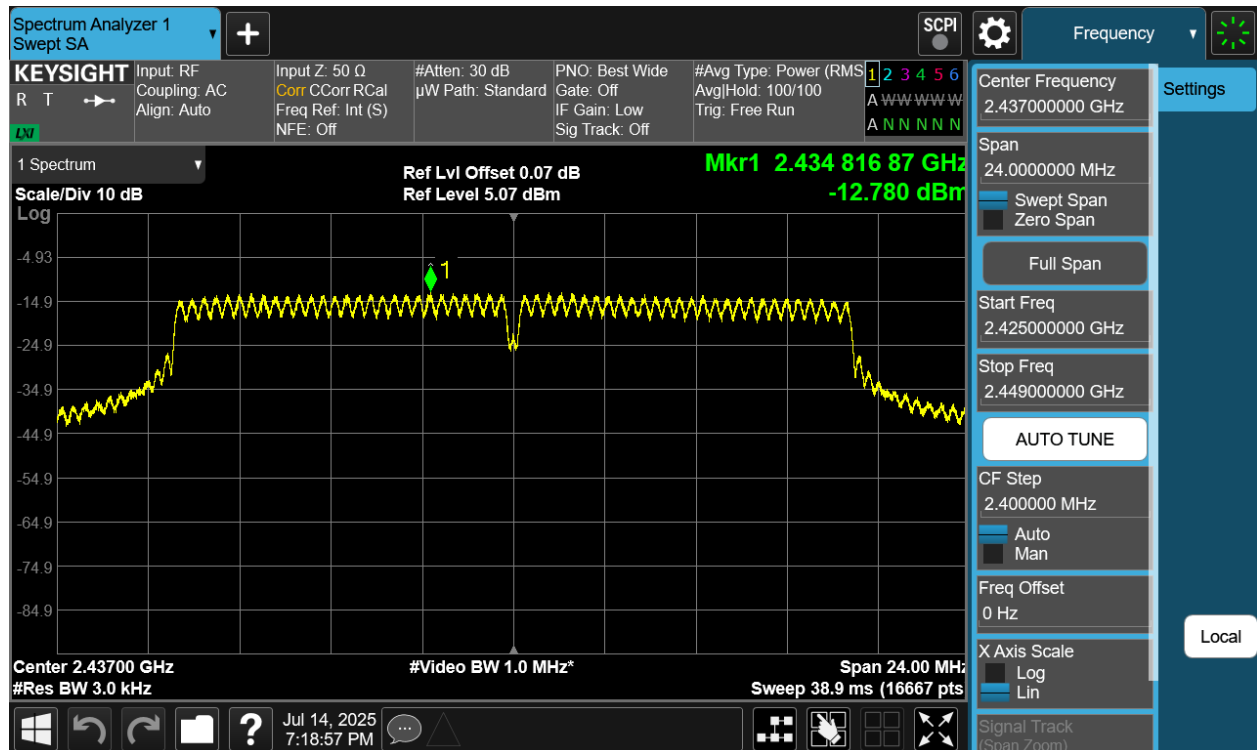


Plot 7-20 PSD CDD Antenna 4a (20MHz BW 802.11be(SU) - Ch.6)

FCC ID: BCGA3358 IC: 579C-A3358		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170039-14-R1.BCG	Test Dates: 05/12/2025 - 07/19/2025	EUT Type: Tablet Device	Page 41 of 174

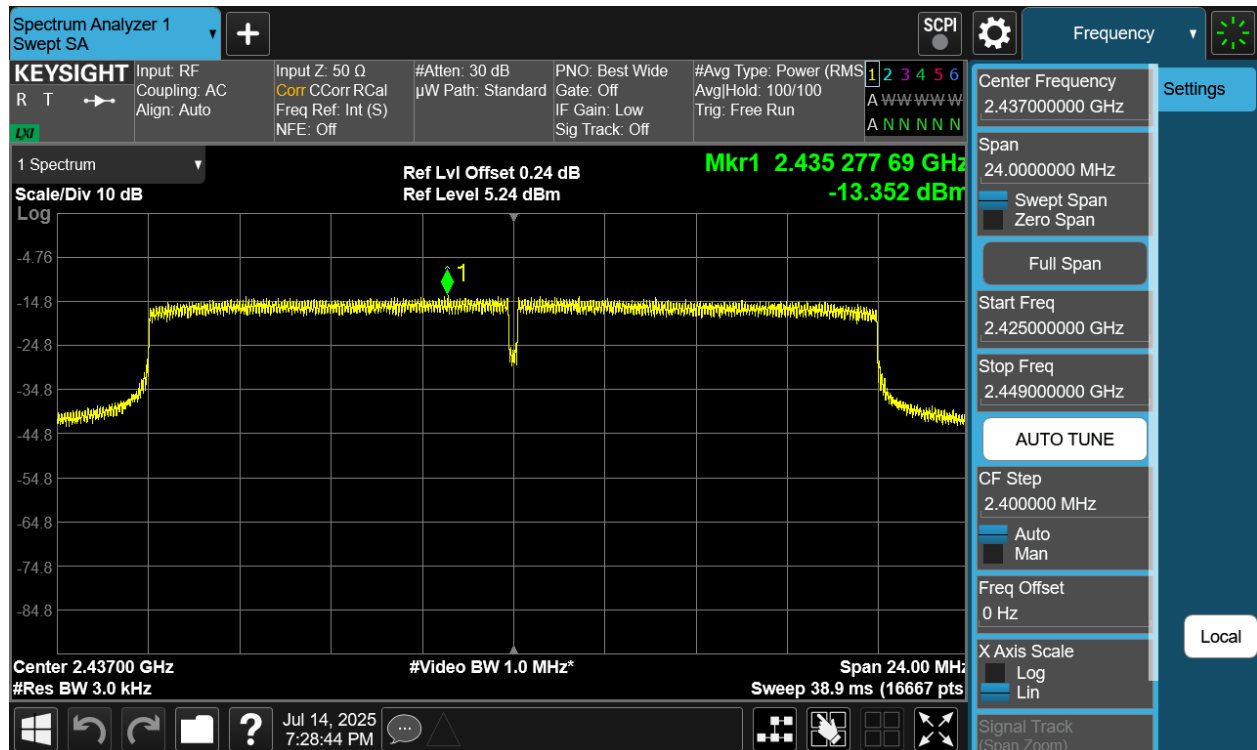
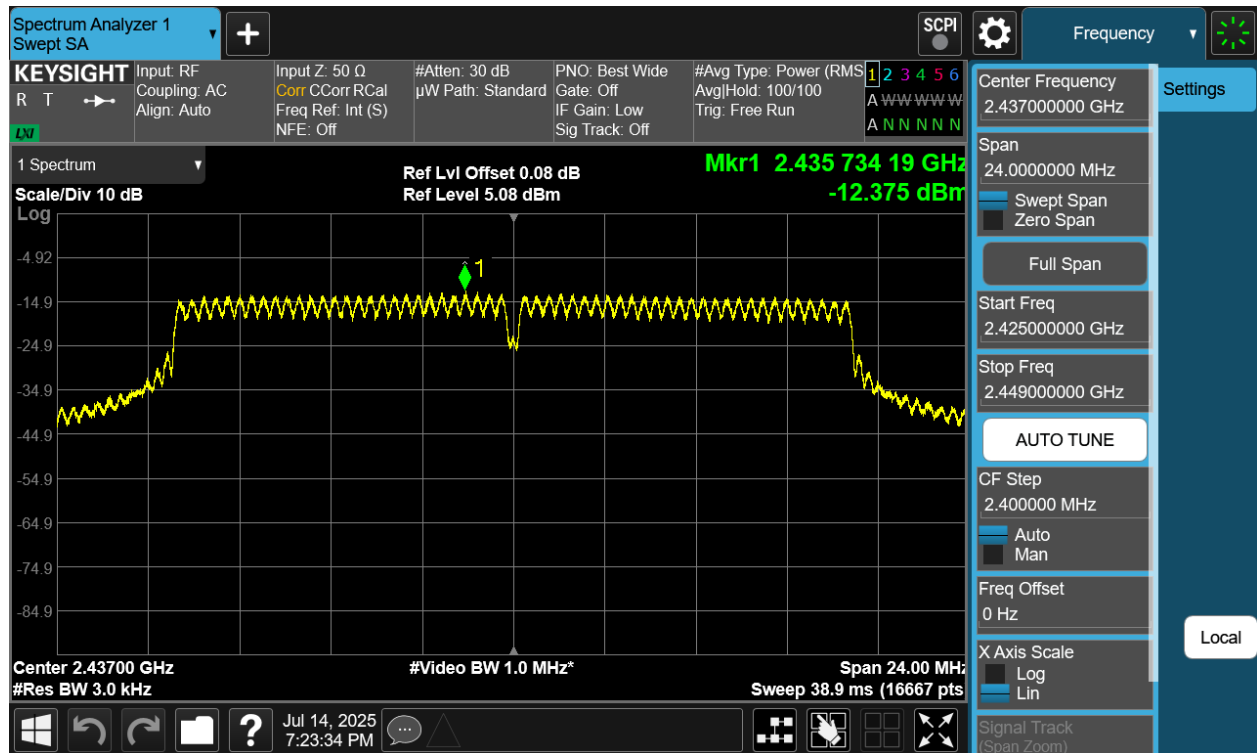


Plot 7-21 PSD CDD Antenna 2a (20MHz BW 802.11b - Ch.6)



Plot 7-22 PSD CDD Antenna 2a (20MHz BW 802.11g - Ch.6)

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

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.

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

Per ANSI C63.10-2020 Section 14.5.2.2 and KDB 662911 D01 v02r01 Section E)2), the power spectral density at Antenna 4a and Antenna 2a were first measured separately as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Sample CDD Calculation:

At 2412MHz the average conducted power spectral density was measured to be -10.54 dBm for Antenna 4a and – 10.94 dBm for Antenna 2a.

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

$$((-10.54 \text{ dBm}) + (-10.94 \text{ dBm})) = (0.088 \text{ mW} + 0.081 \text{ mW}) = 0.169 \text{ mW} = -7.72 \text{ dBm}$$

FCC ID: BCGA3358 IC: 579C-A3358	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.5 Conducted Authorized Band Edge

§15.247(d); RSS-247 [5.5]

Test Overview and Limit

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. For the following out of band conducted spurious emissions plots at the band edge, the EUT was set at a data rate of 11Mbps for “b” mode, 36Mbps for “g” mode, MCS5 for “n” mode, and MCS5 for “be-SU” mode as these settings produced the worst-case emissions.

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the PSD procedure (Section 7.4).

Test Procedure Used

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

Test Settings

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

Test Setup

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



Figure 7-4. Test Instrument & Measurement Setup

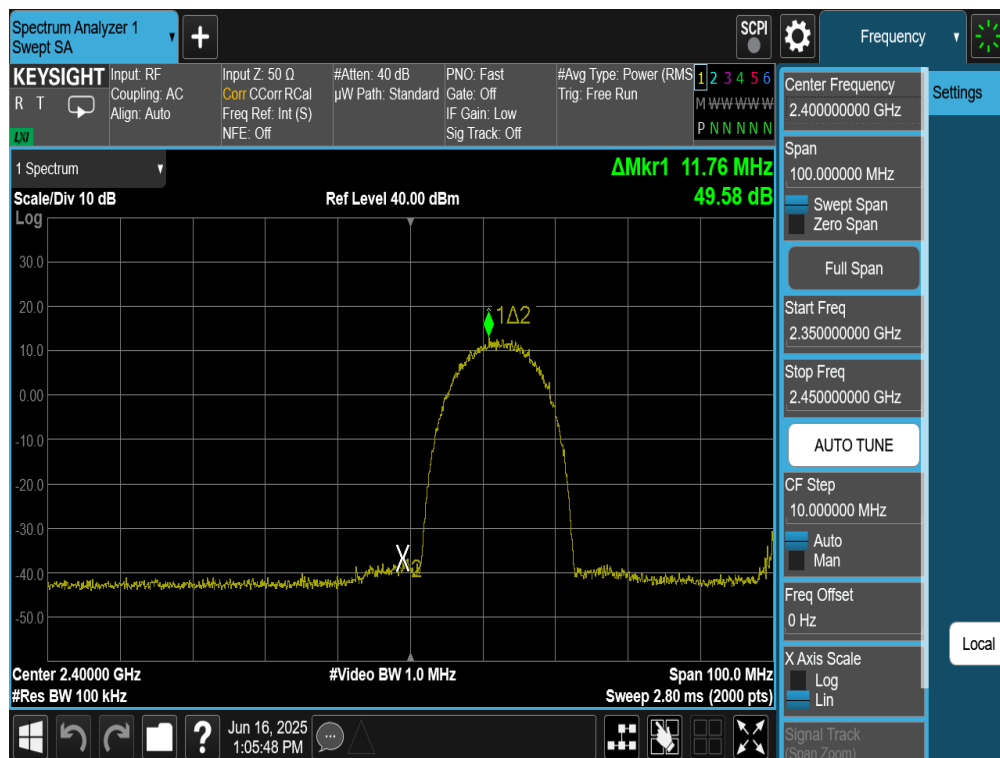
Test Notes

None.

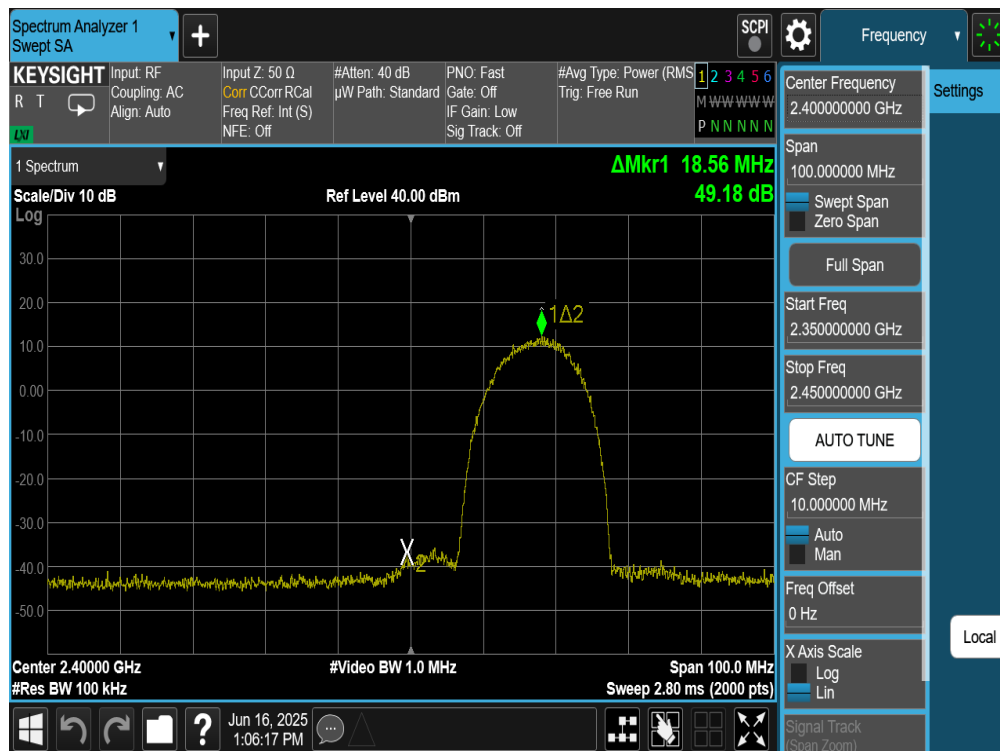
FCC ID: BCGA3358 IC: 579C-A3358		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170039-14-R1.BCG	Test Dates: 05/12/2025 - 07/19/2025	EUT Type: Tablet Device	Page 45 of 174

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7.5.1 Antenna 4a Conducted Emissions at the Band Edge



Plot 7-25. Band Edge Plot Antenna 4a (802.11b – Ch. 1)

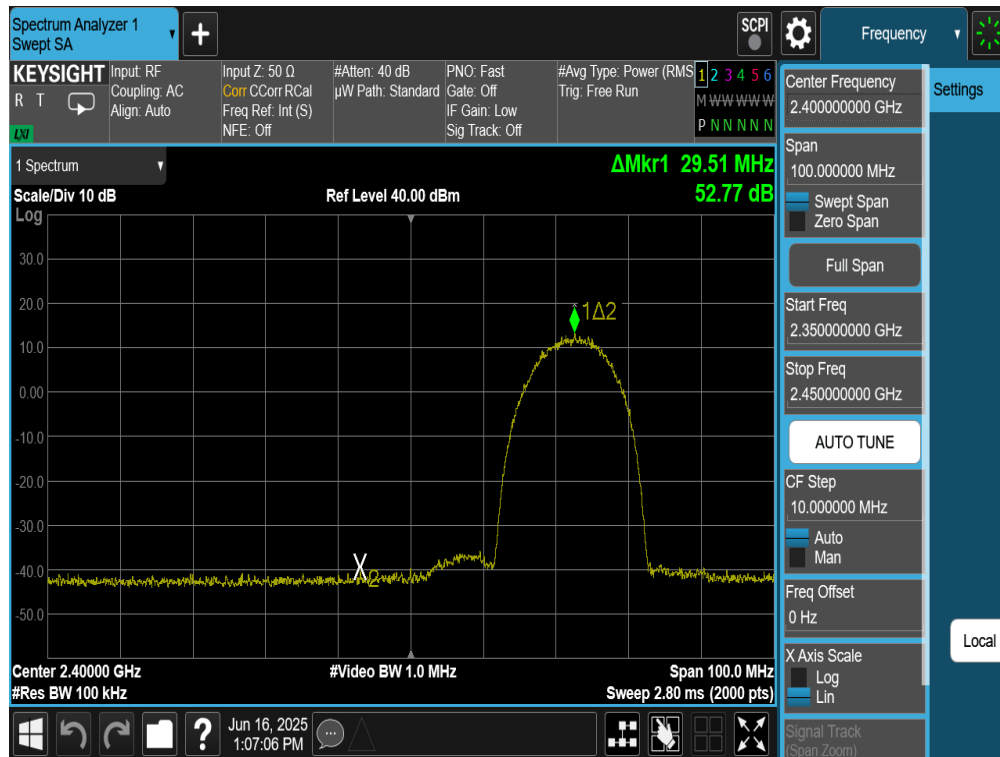


Plot 7-26. Band Edge Plot Antenna 4a (802.11b – Ch. 2)

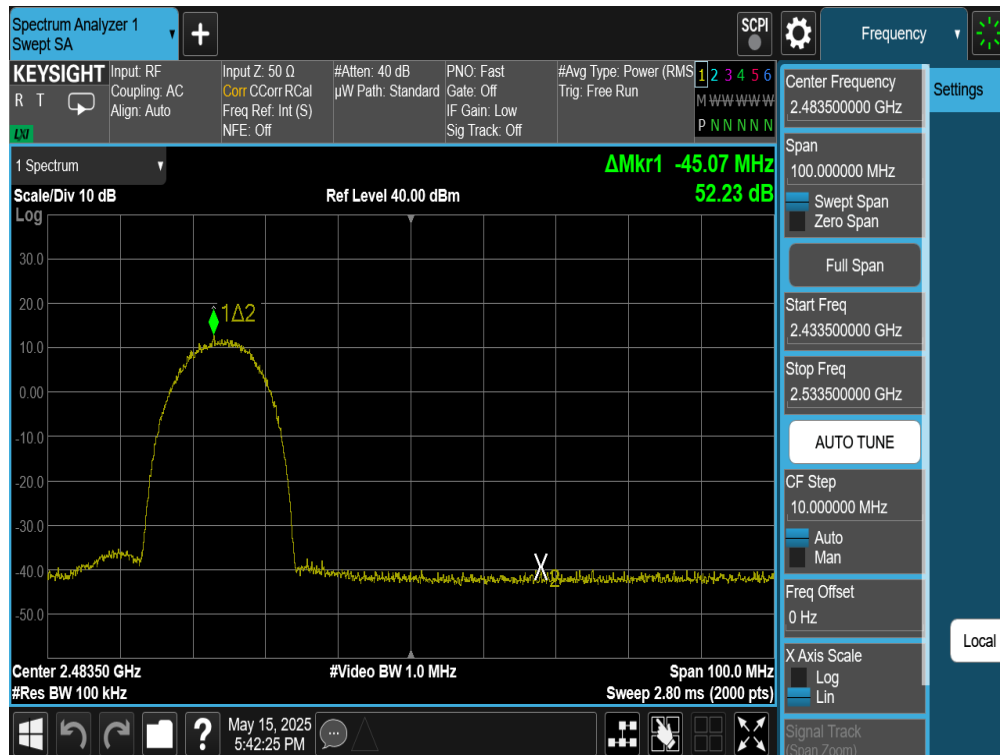
FCC ID: BCGA3358 IC: 579C-A3358		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170039-14-R1.BCG	Test Dates: 05/12/2025 - 07/19/2025	EUT Type: Tablet Device	Page 46 of 174

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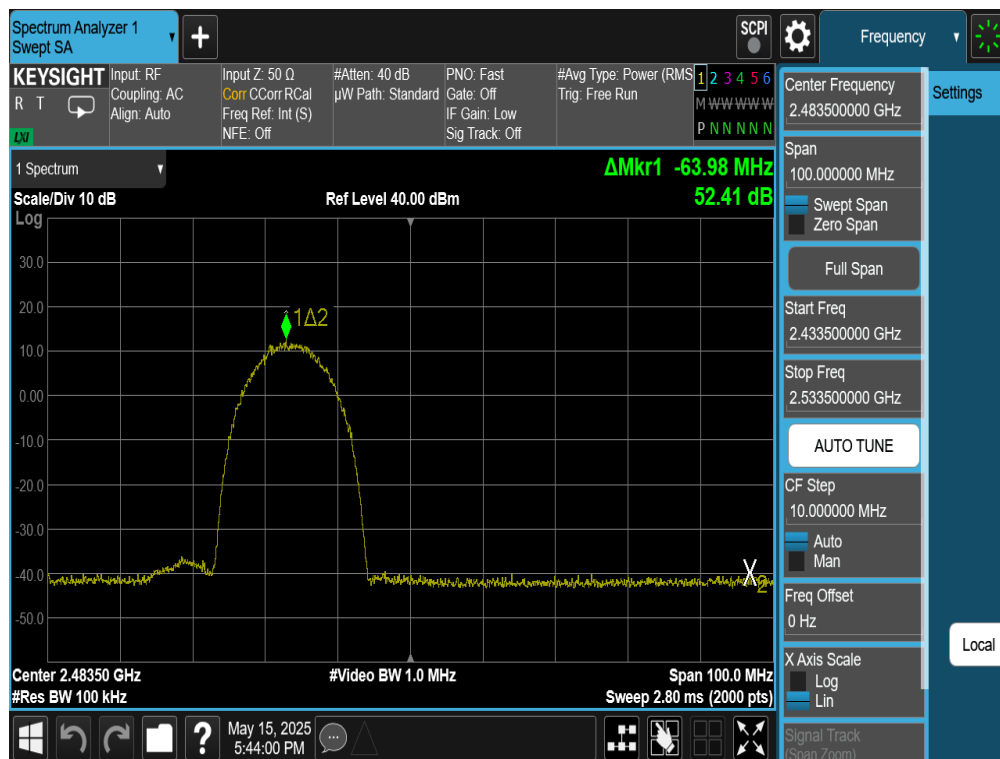
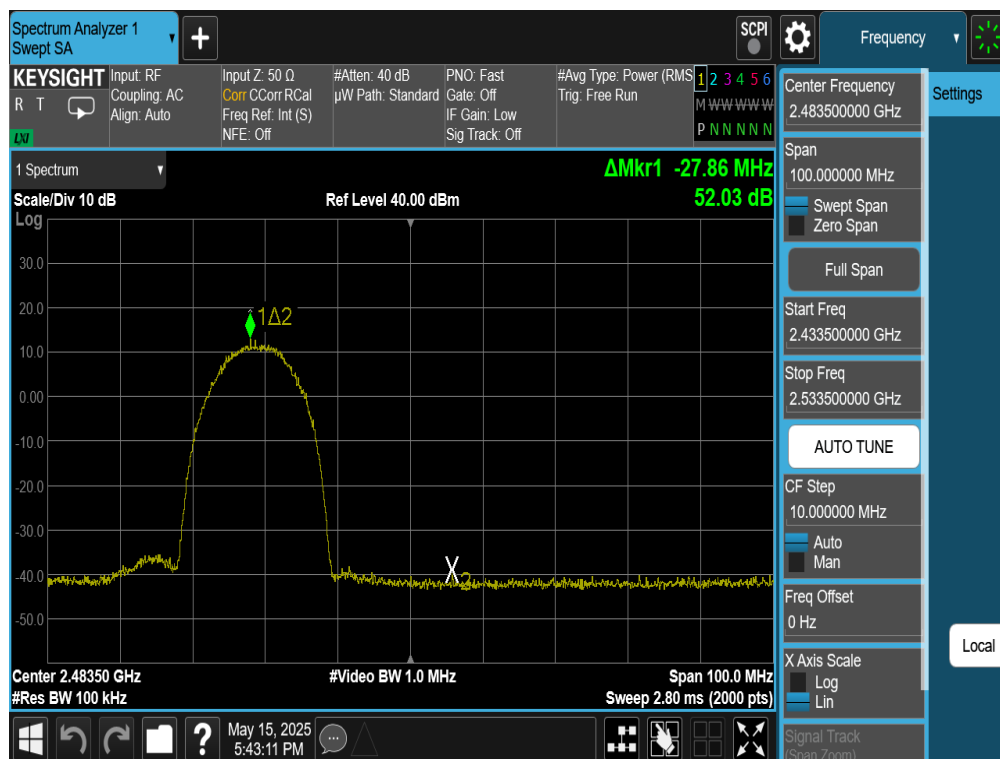


Plot 7-27. Band Edge Plot Antenna 4a (802.11b – Ch. 3)



Plot 7-28. Band Edge Plot Antenna 4a (802.11b – Ch. 10)

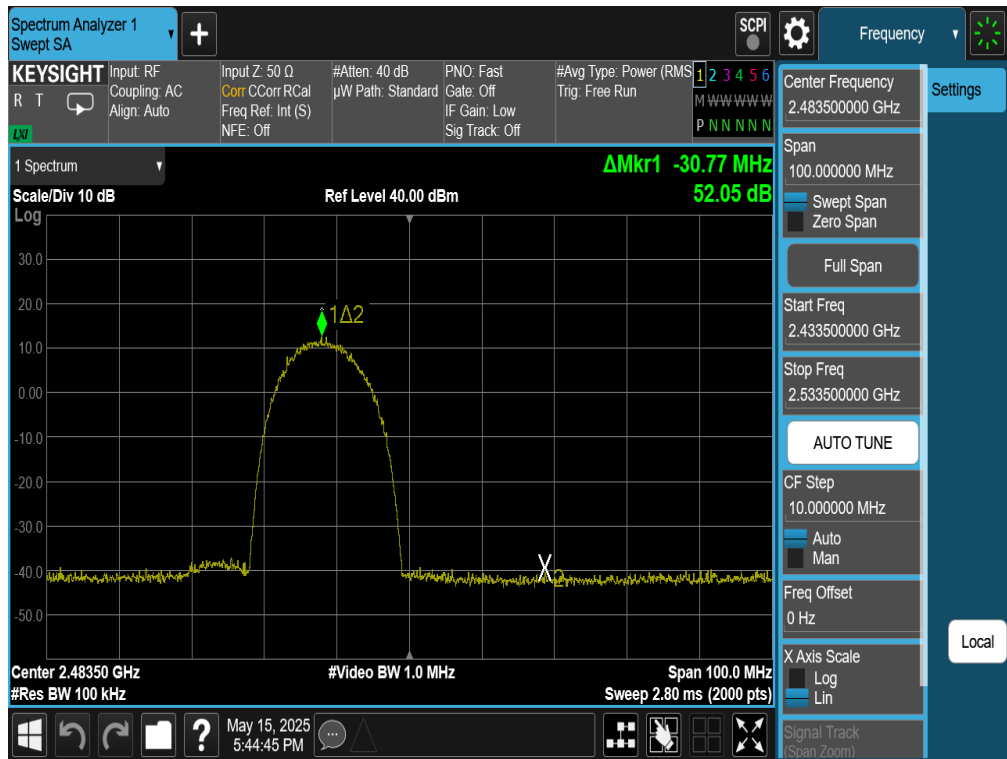
FCC ID: BCGA3358 IC: 579C-A3358		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170039-14-R1.BCG	Test Dates: 05/12/2025 - 07/19/2025	EUT Type: Tablet Device	Page 47 of 174



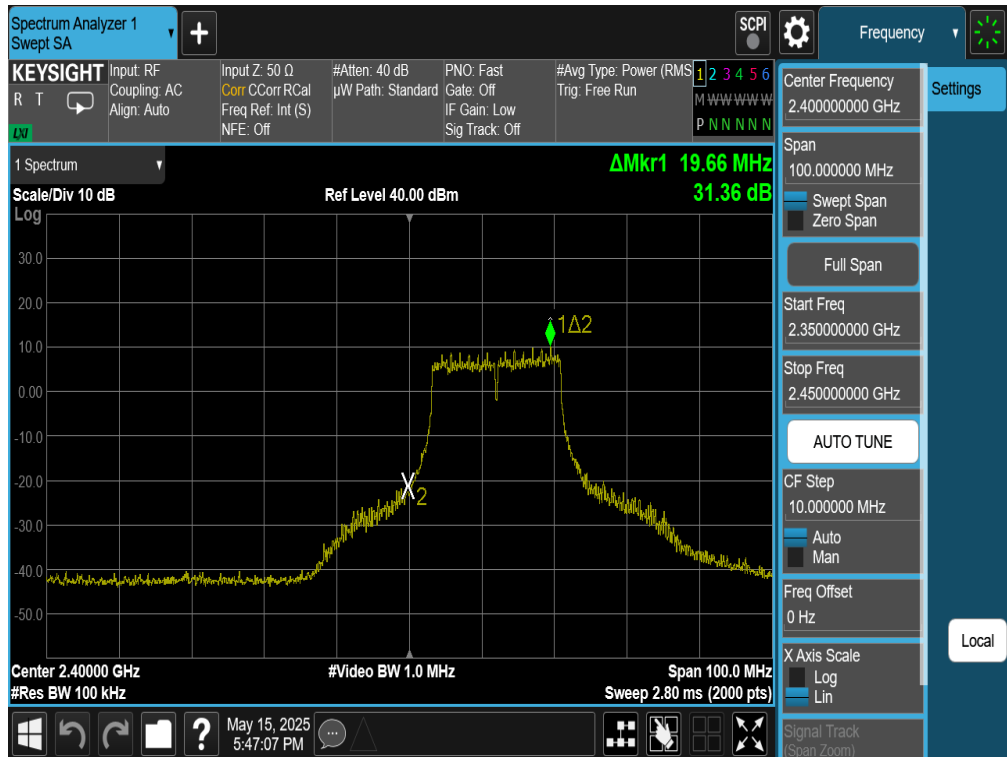
FCC ID: BCGA3358 IC: 579C-A3358		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170039-14-R1.BCG	Test Dates: 05/12/2025 - 07/19/2025	EUT Type: Tablet Device	Page 48 of 174

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Plot 7-31. Band Edge Plot Antenna 4a (802.11b – Ch. 13)

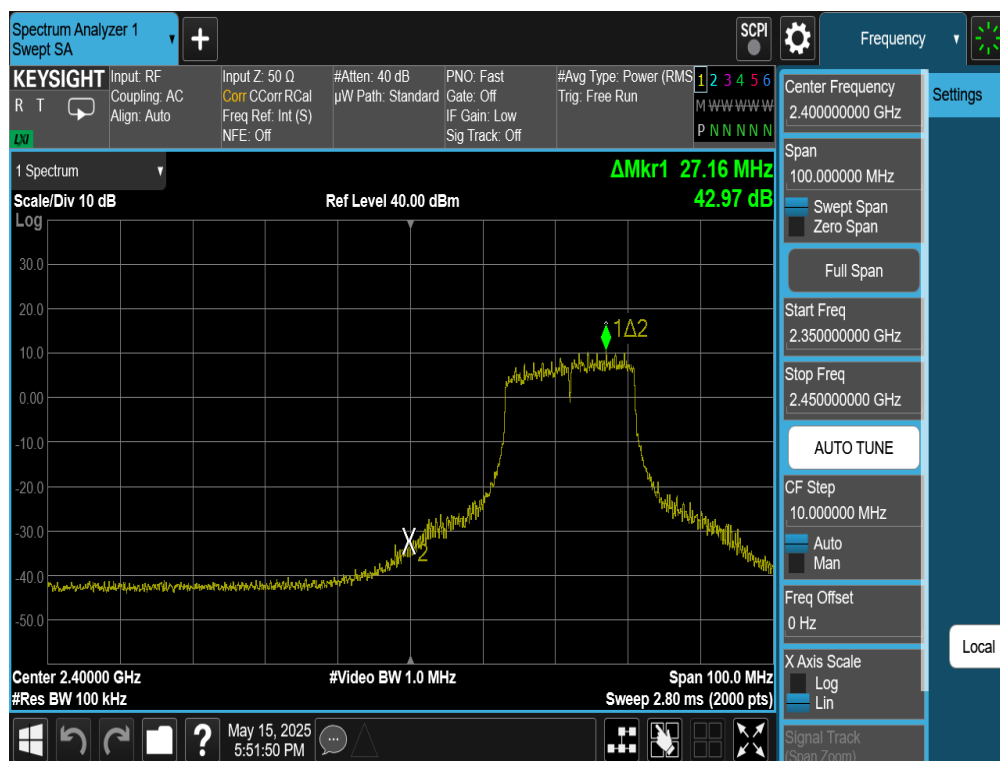
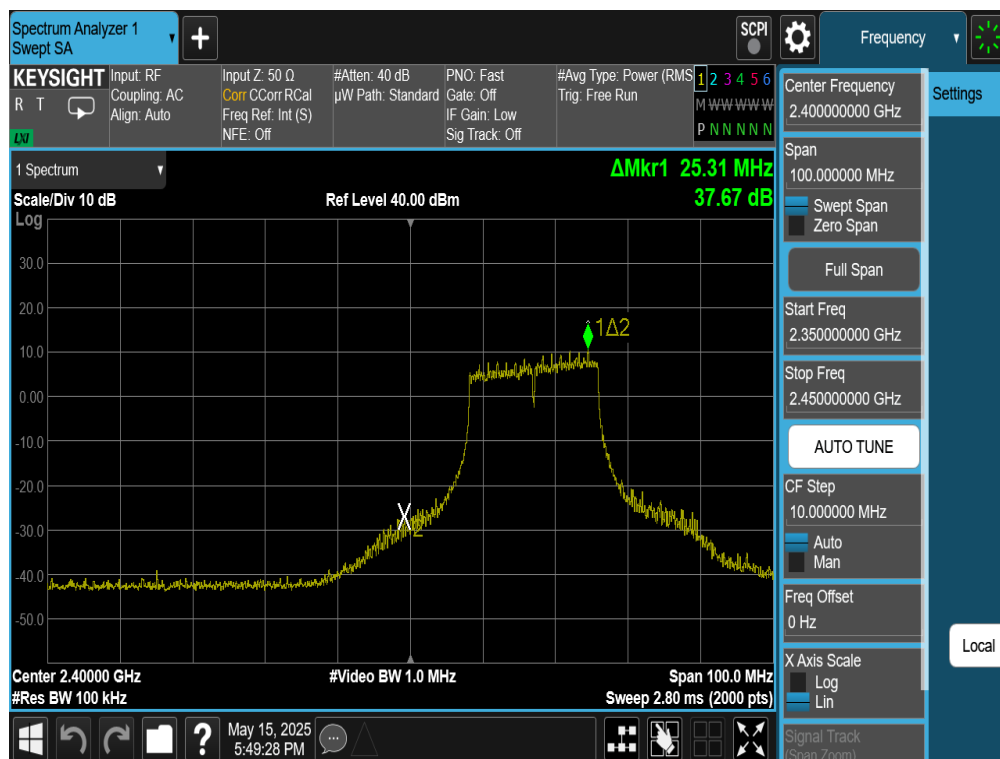


Plot 7-32. Band Edge Plot Antenna 4a (802.11g – Ch. 1)

FCC ID: BCGA3358 IC: 579C-A3358	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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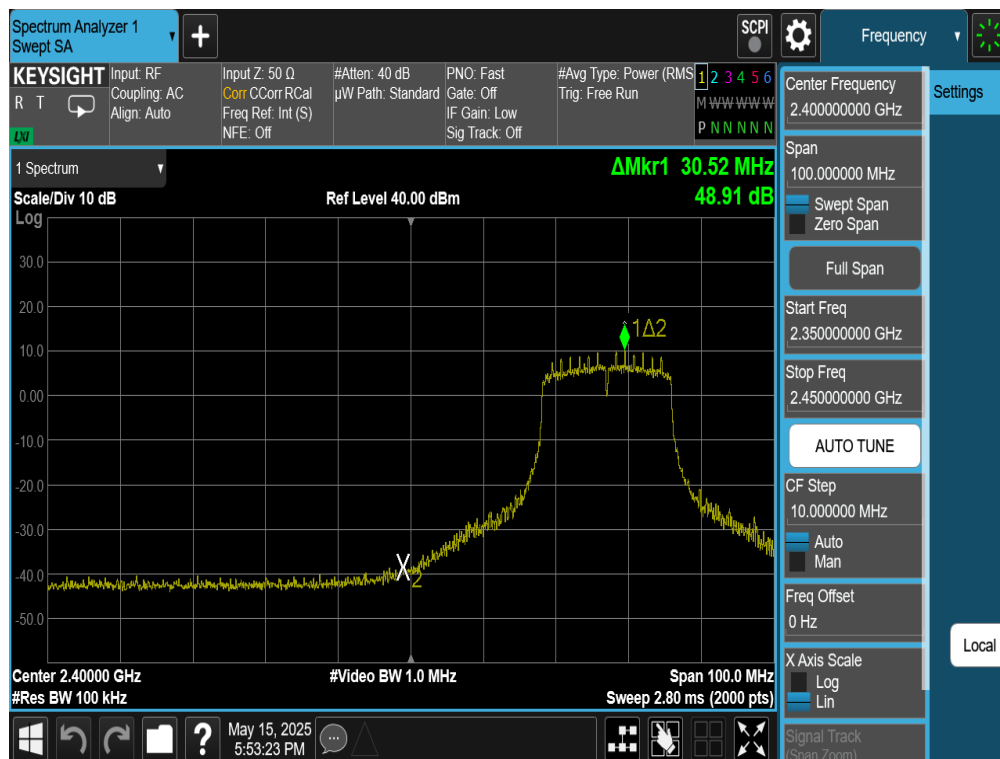
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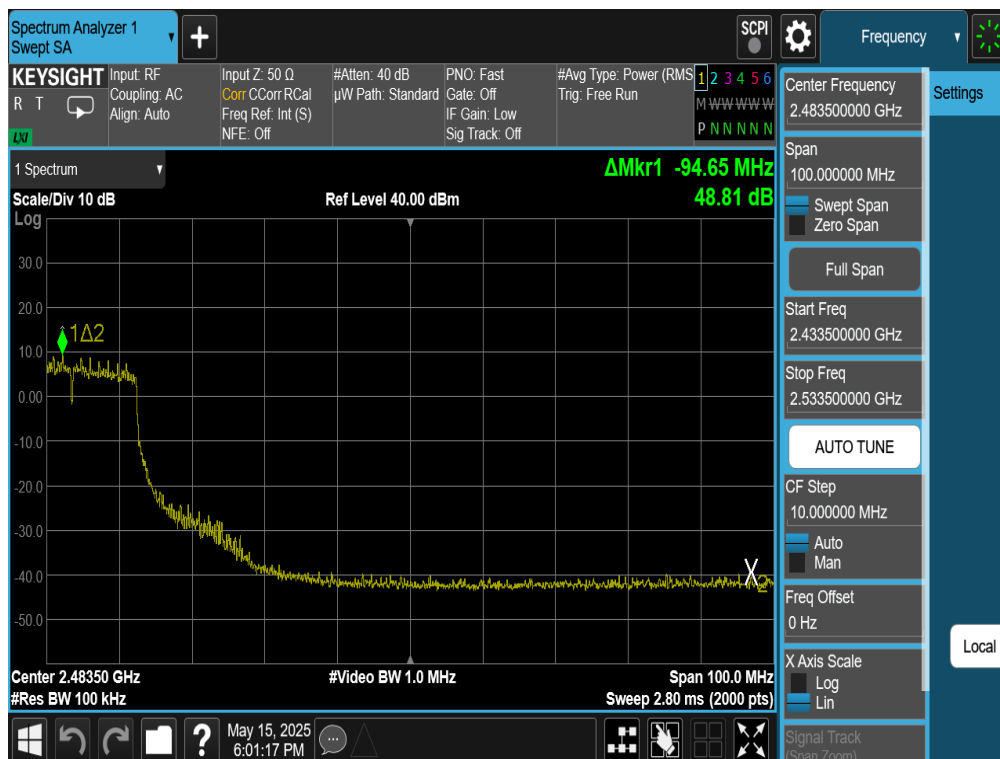
FCC ID: BCGA3358 IC: 579C-A3358	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170039-14-R1.BCG	Test Dates: 05/12/2025 - 07/19/2025	EUT Type: Tablet Device	Page 50 of 174

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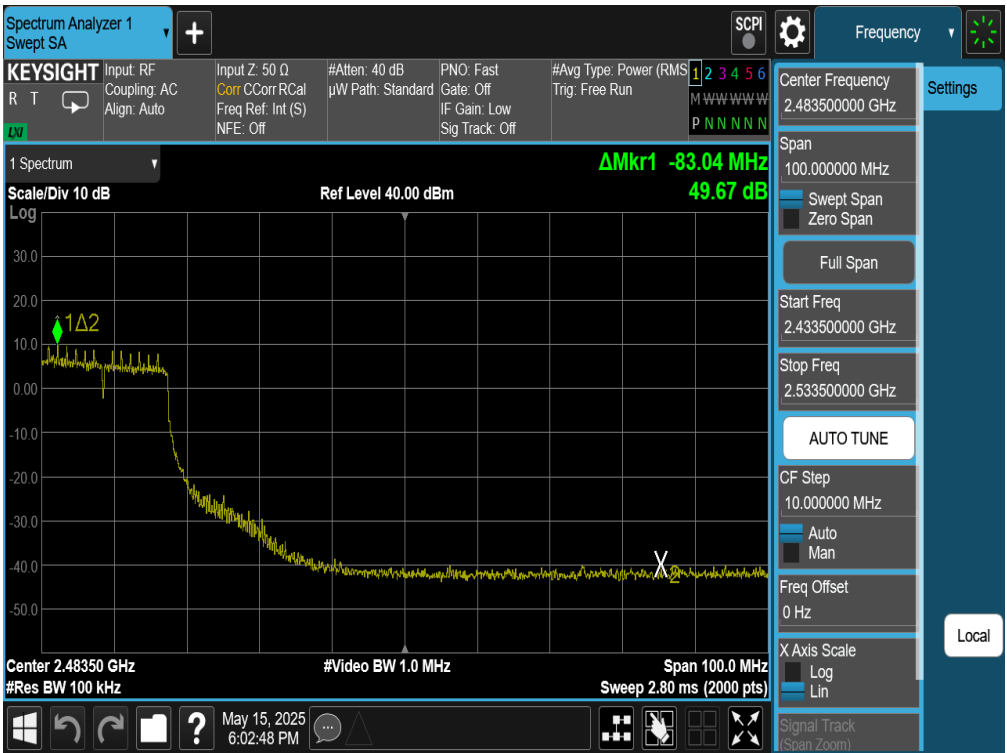
Plot 7-35. Band Edge Plot Antenna 4a (802.11g – Ch. 4)



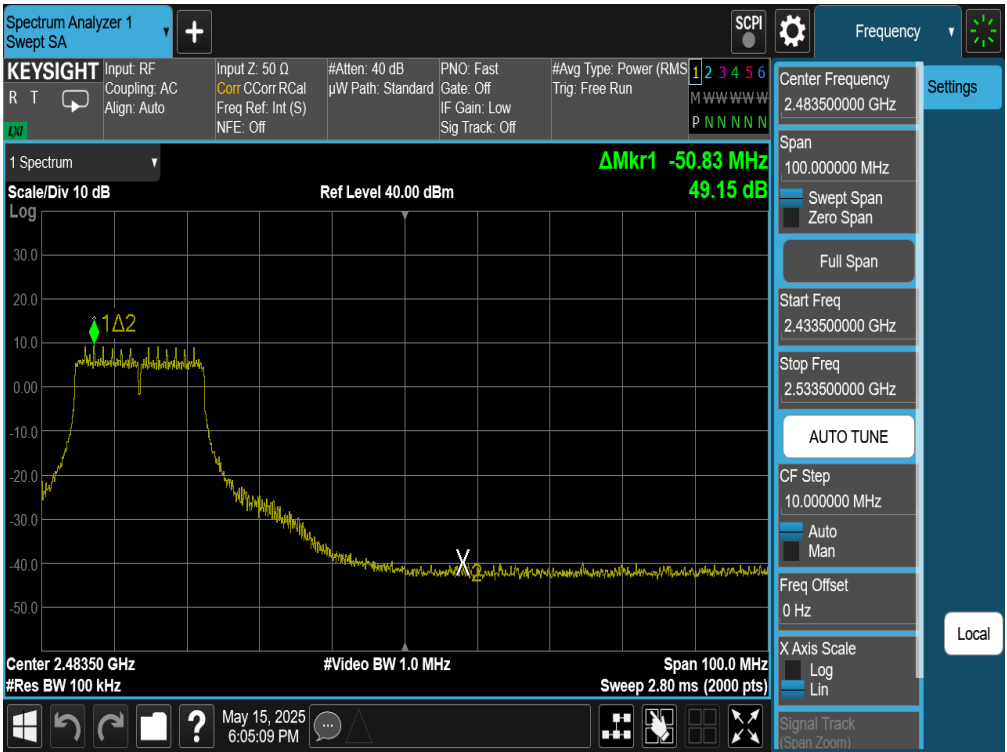
Plot 7-36. Band Edge Plot Antenna 4a (802.11g – Ch. 6)

FCC ID: BCGA3358 IC: 579C-A3358	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170039-14-R1.BCG	Test Dates: 05/12/2025 - 07/19/2025	EUT Type: Tablet Device	Page 51 of 174

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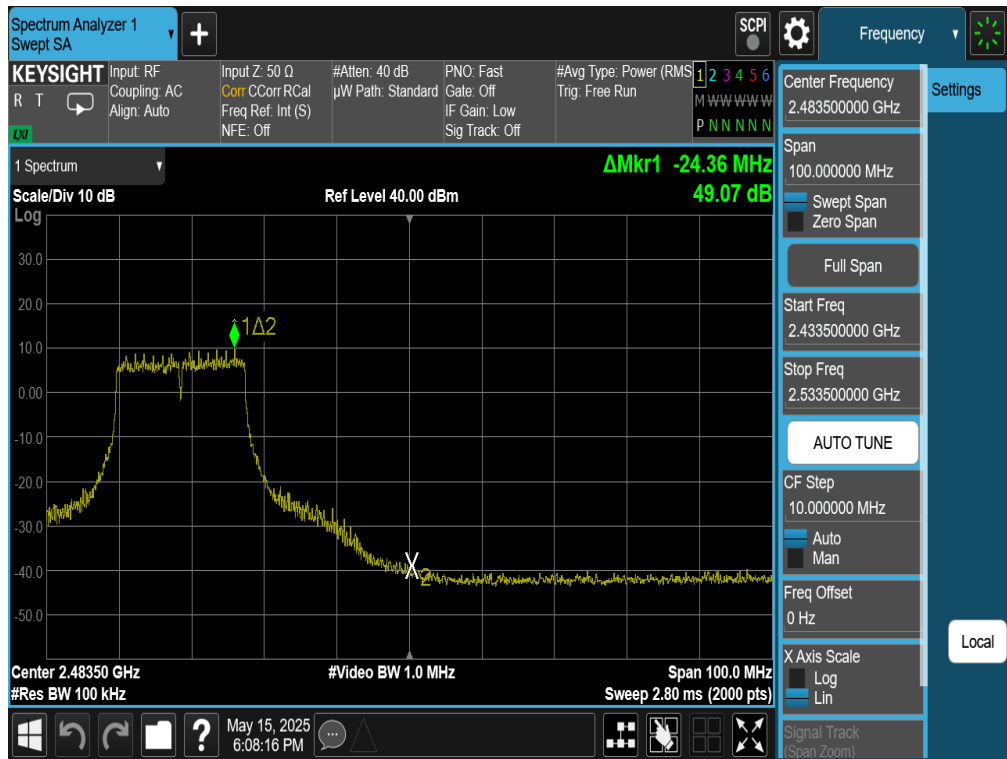


Plot 7-37. Band Edge Plot Antenna 4a (802.11g – Ch. 7)

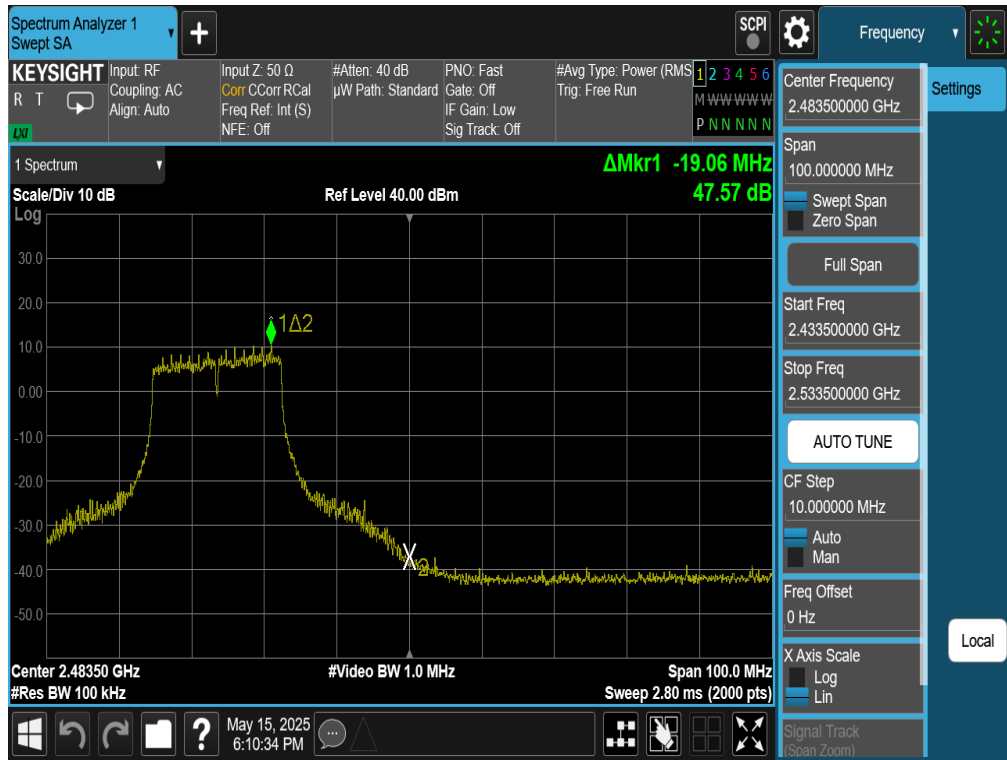


Plot 7-38. Band Edge Plot Antenna 4a (802.11g – Ch. 8)

FCC ID: BCGA3358 IC: 579C-A3358	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170039-14-R1.BCG	Test Dates: 05/12/2025 - 07/19/2025	EUT Type: Tablet Device	Page 52 of 174

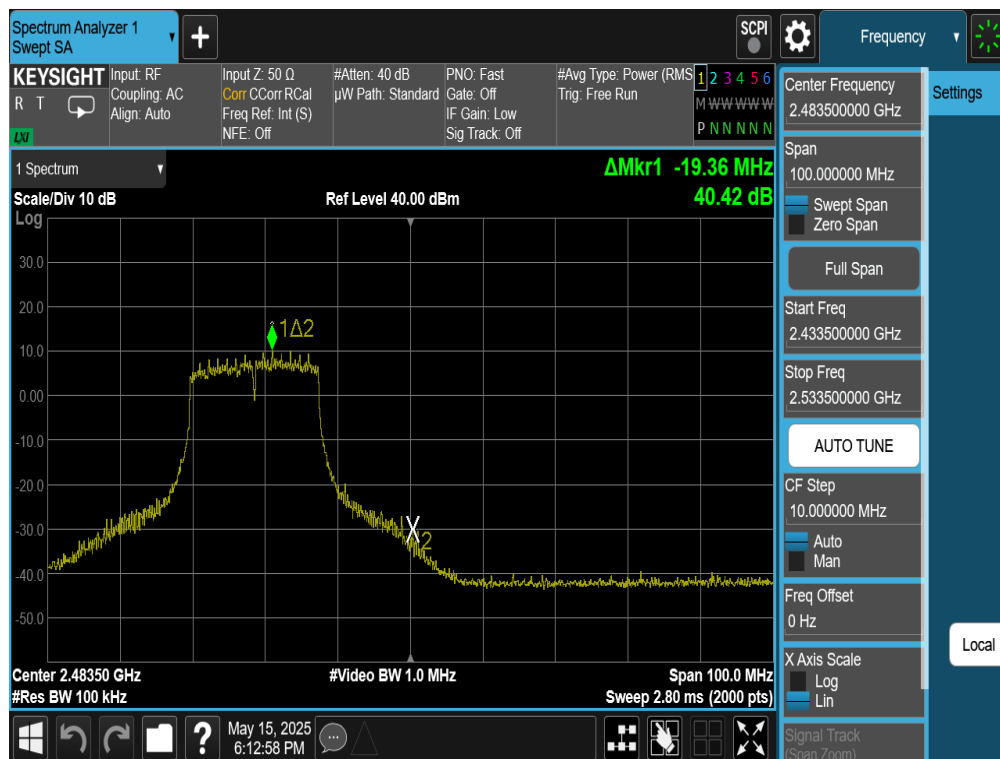


Plot 7-39. Band Edge Plot Antenna 4a (802.11g – Ch. 9)

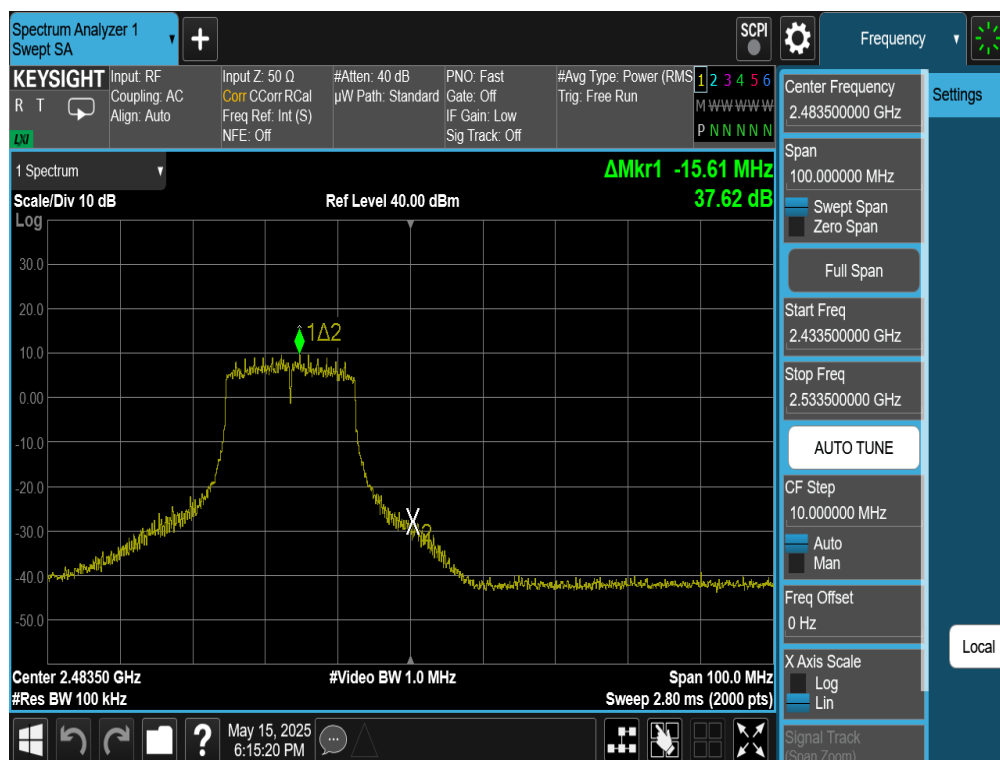


Plot 7-40. Band Edge Plot Antenna 4a (802.11g – Ch. 10)

FCC ID: BCGA3358 IC: 579C-A3358	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-41. Band Edge Plot Antenna 4a (802.11g – Ch. 11)

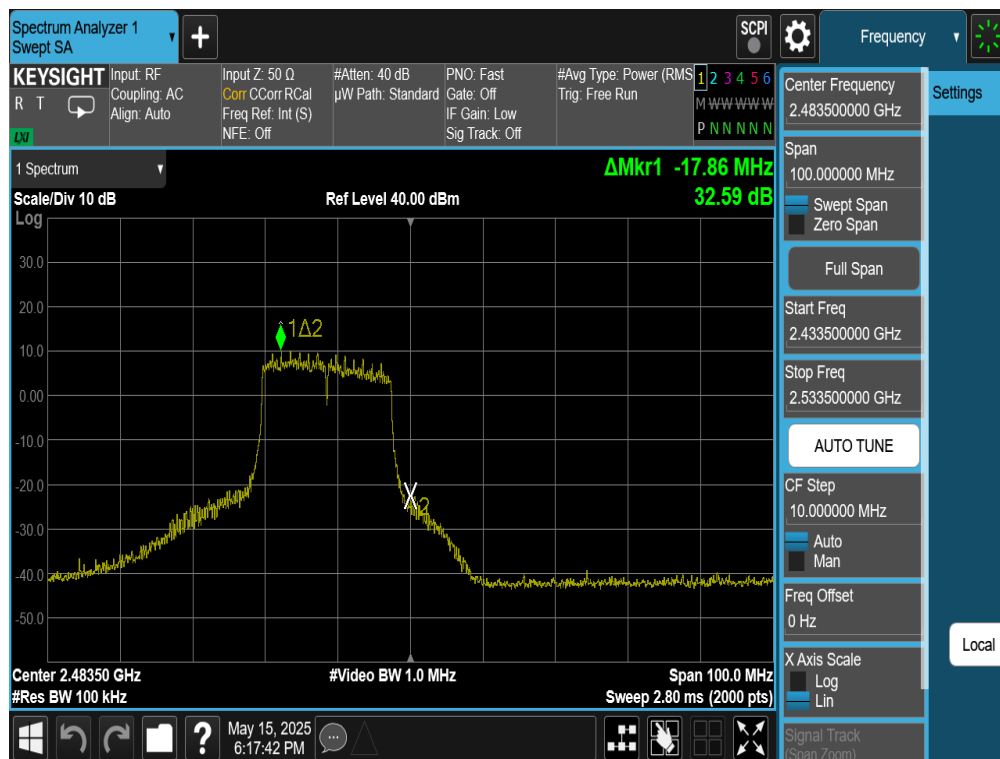


Plot 7-42. Band Edge Plot Antenna 4a (802.11g – Ch. 12)

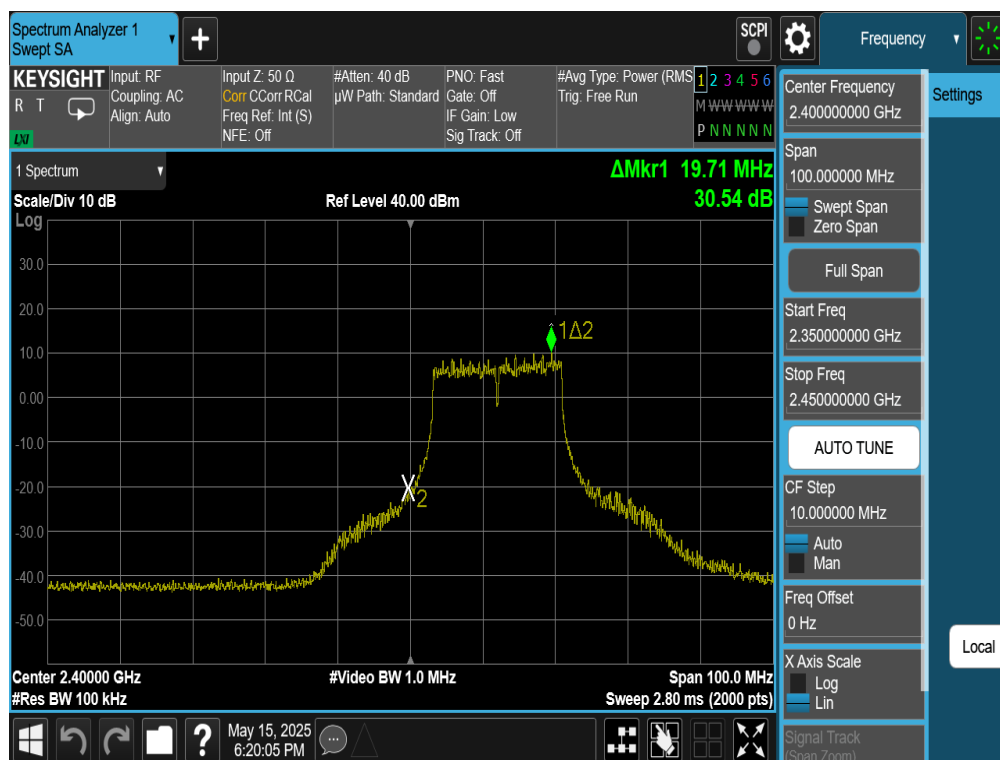
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Plot 7-43. Band Edge Plot Antenna 4a (802.11g – Ch. 13)

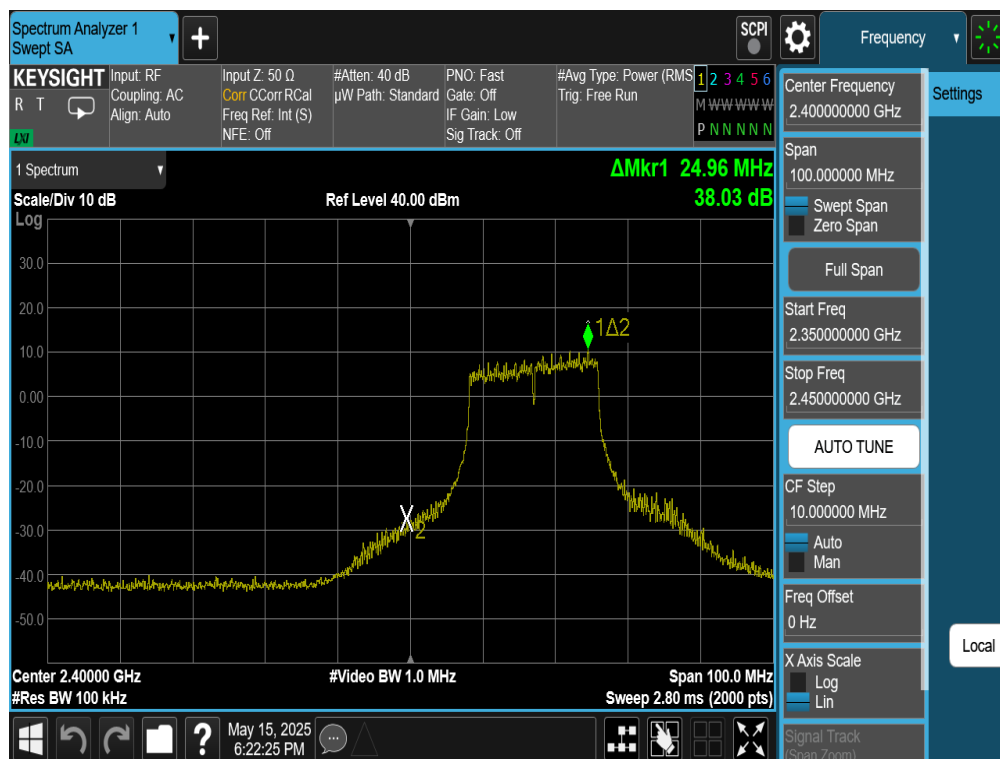


Plot 7-44. Band Edge Plot Antenna 4a (802.11n (2.4GHz) – Ch. 1)

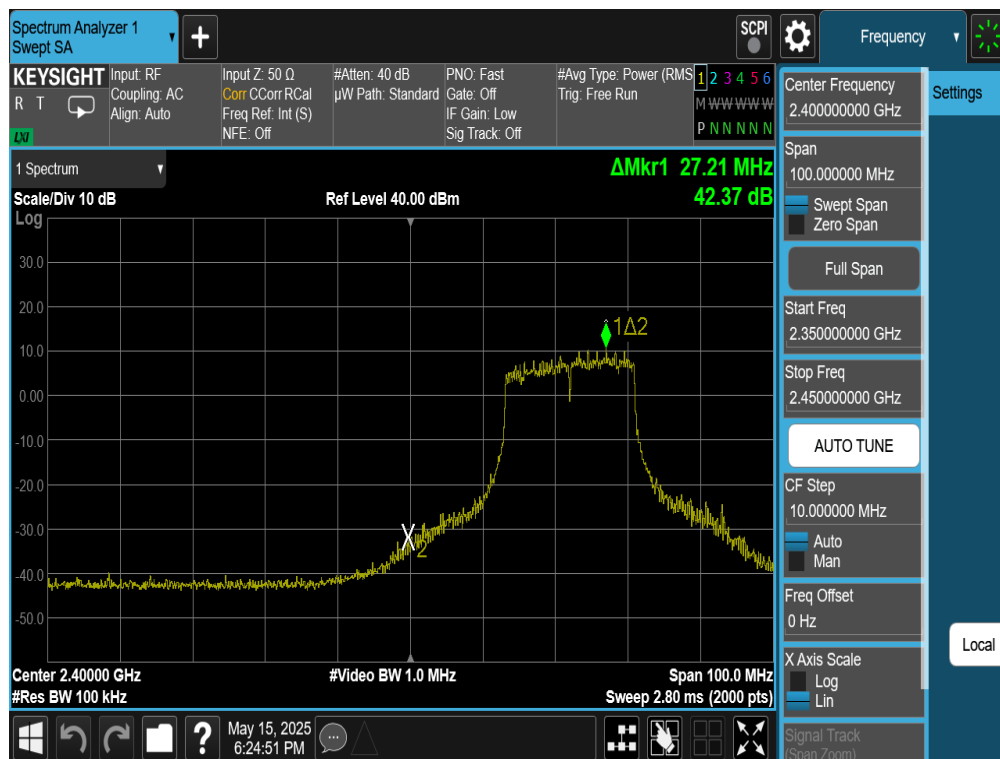
FCC ID: BCGA3358 IC: 579C-A3358		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-45. Band Edge Plot Antenna 4a (802.11n (2.4GHz) – Ch. 2)

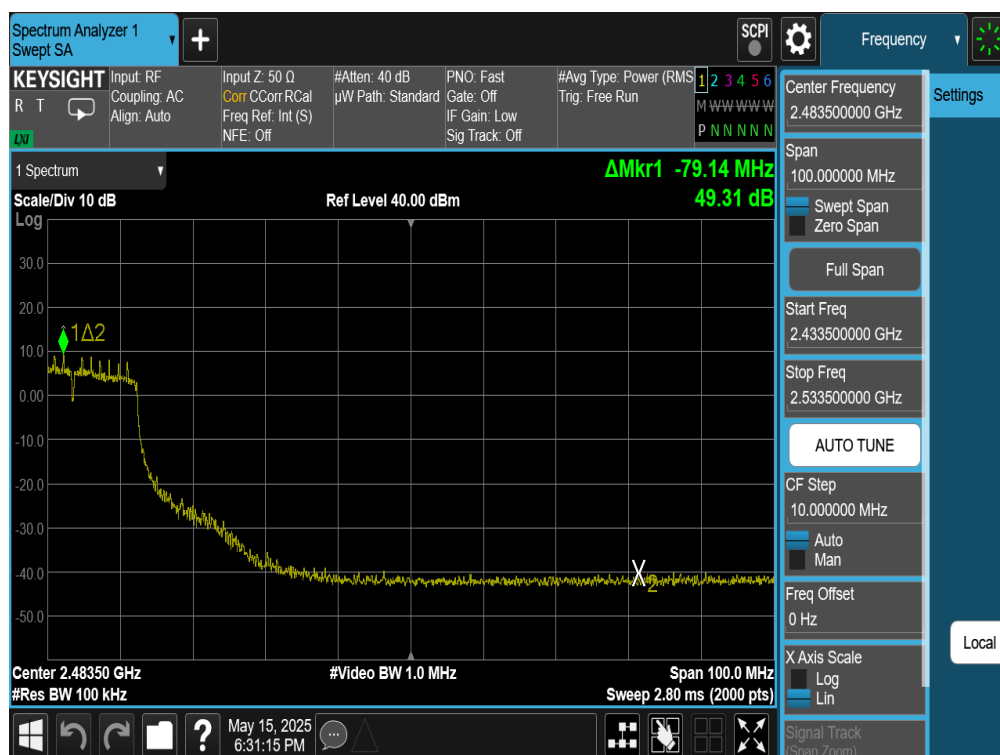
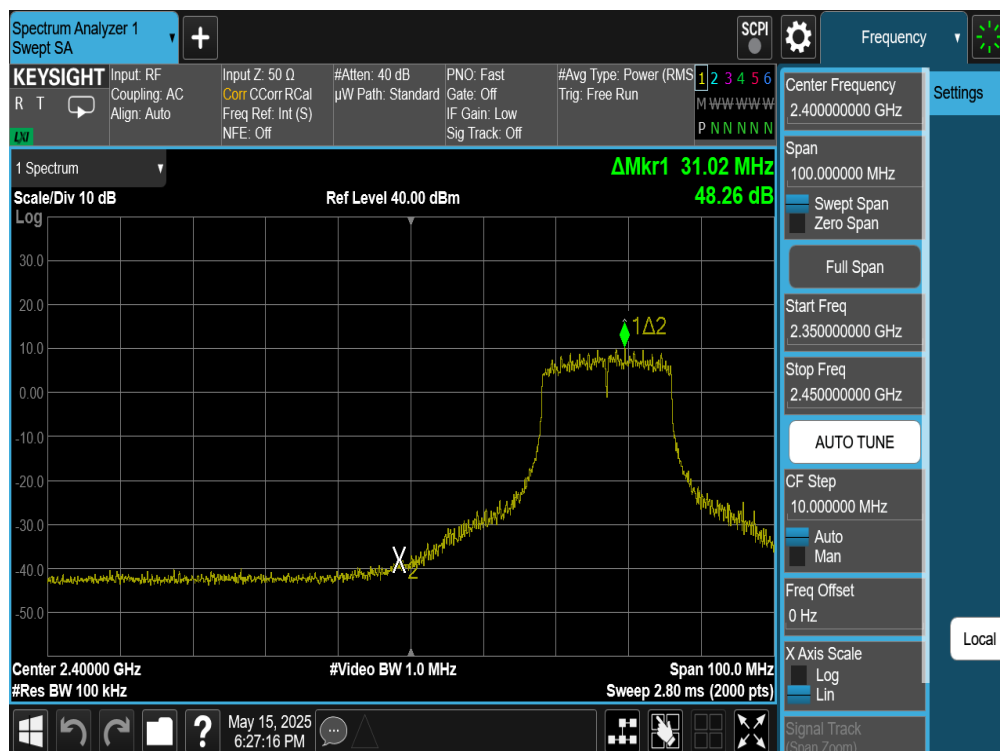


Plot 7-46. Band Edge Plot Antenna 4a (802.11n (2.4GHz) – Ch. 3)

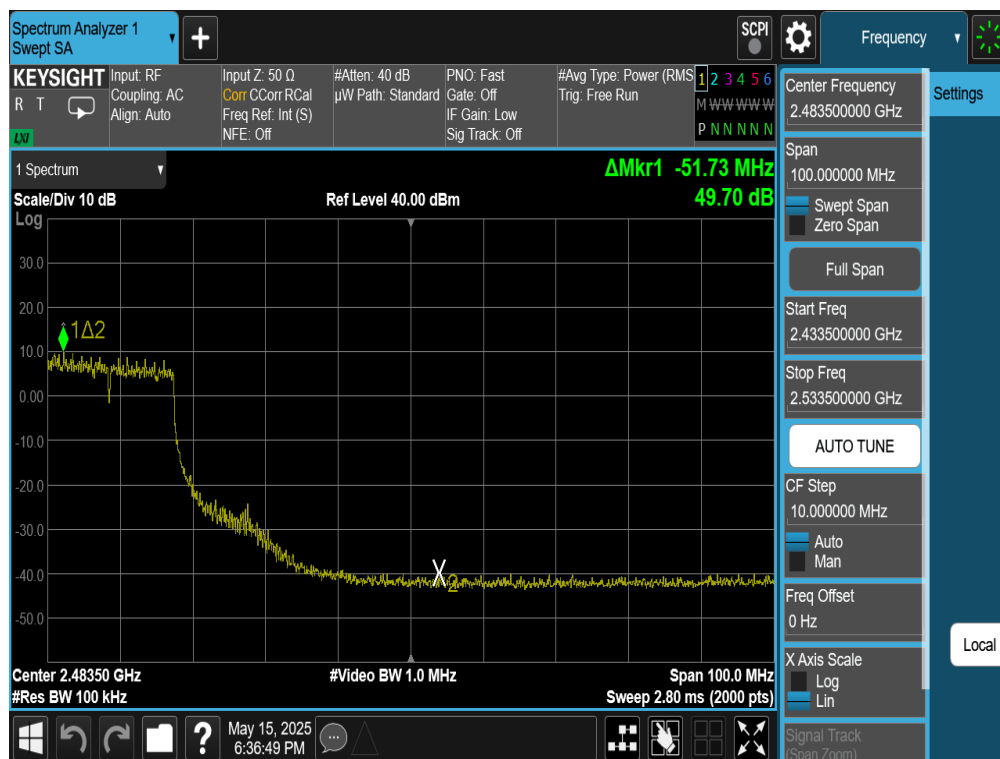
FCC ID: BCGA3358 IC: 579C-A3358		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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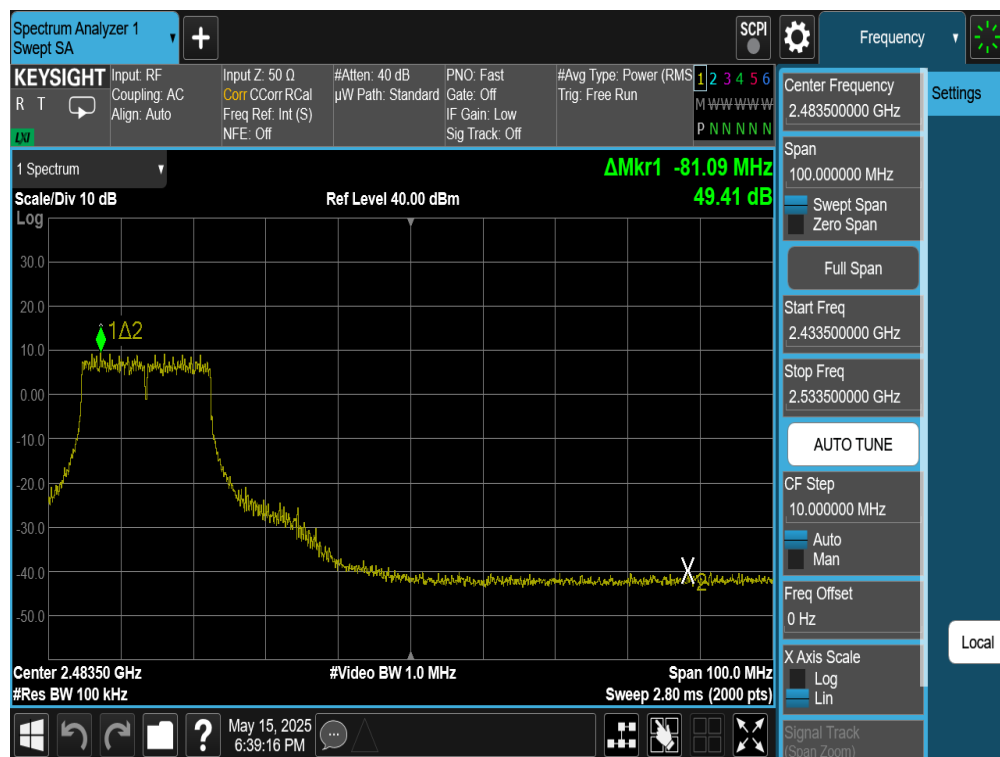
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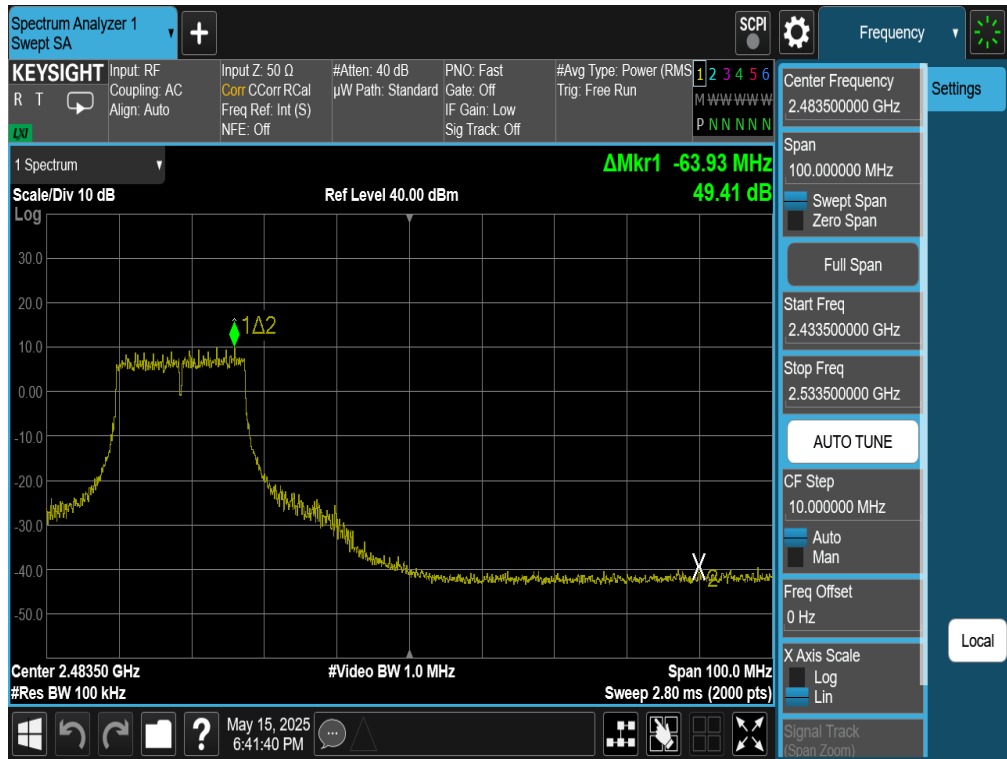


Plot 7-49. Band Edge Plot Antenna 4a (802.11n (2.4GHz) – Ch. 7)

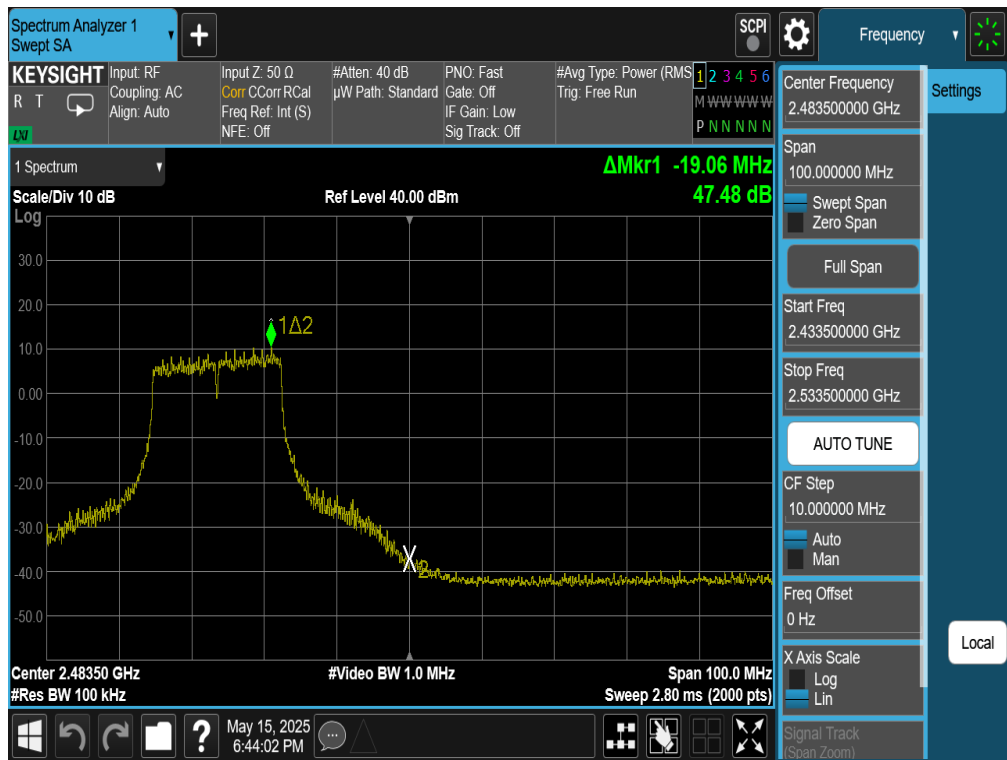


Plot 7-50. Band Edge Plot Antenna 4a (802.11n (2.4GHz) – Ch. 8)

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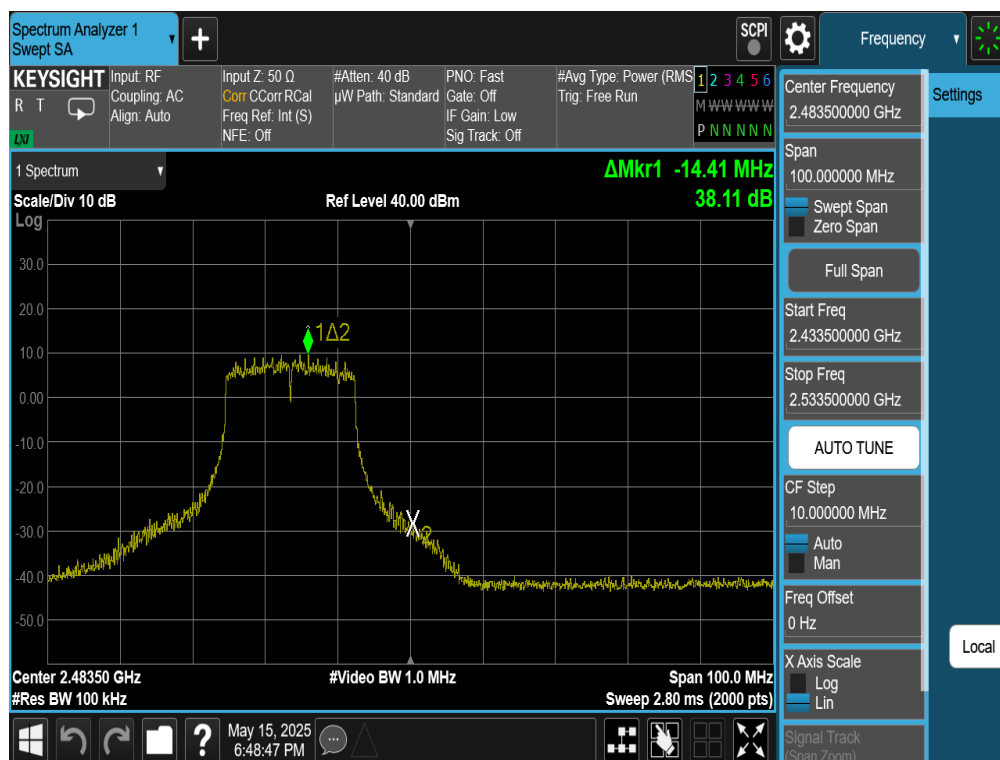
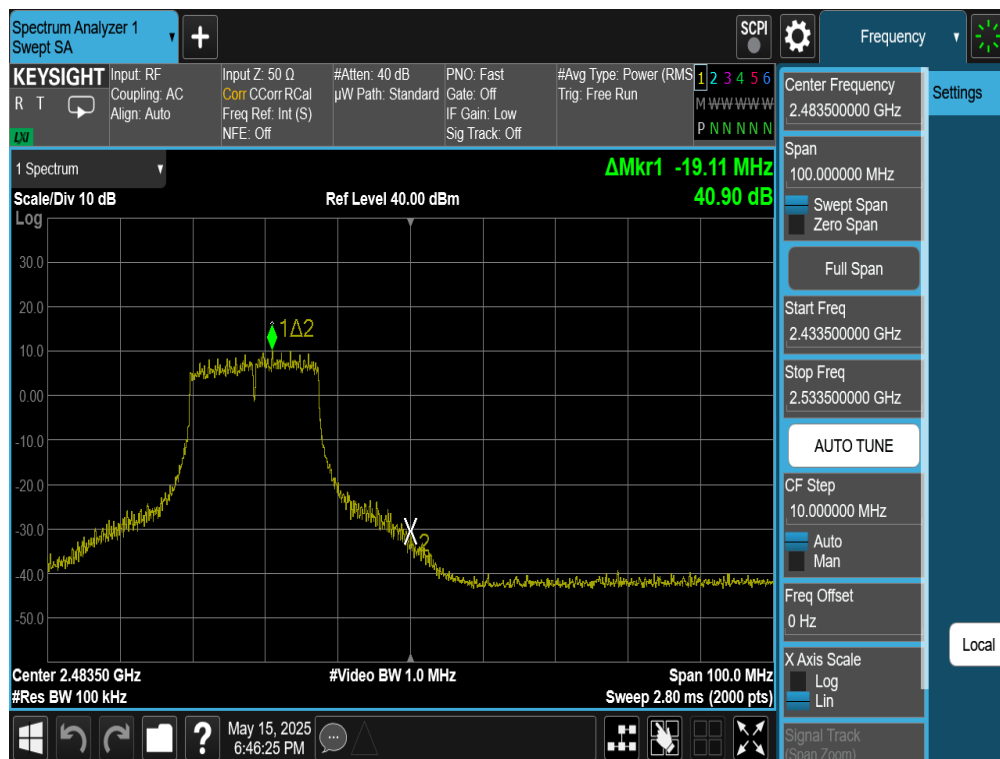


Plot 7-51. Band Edge Plot Antenna 4a (802.11n (2.4GHz) – Ch. 9)



Plot 7-52. Band Edge Plot Antenna 4a (802.11n (2.4GHz) – Ch. 10)

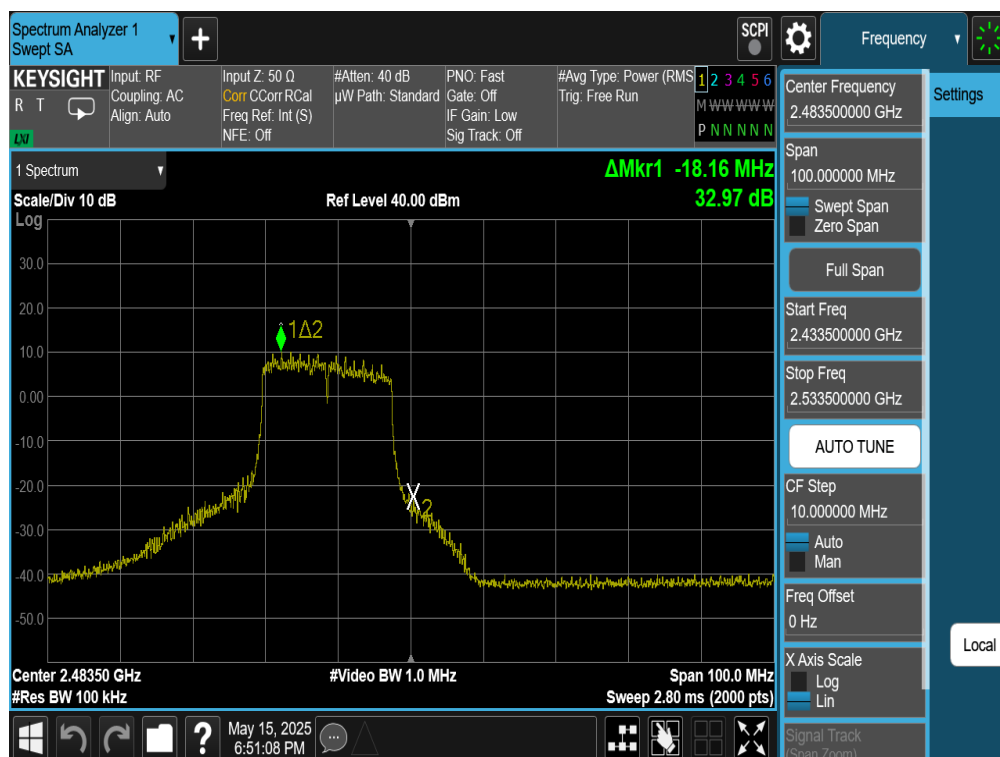
FCC ID: BCGA3358 IC: 579C-A3358	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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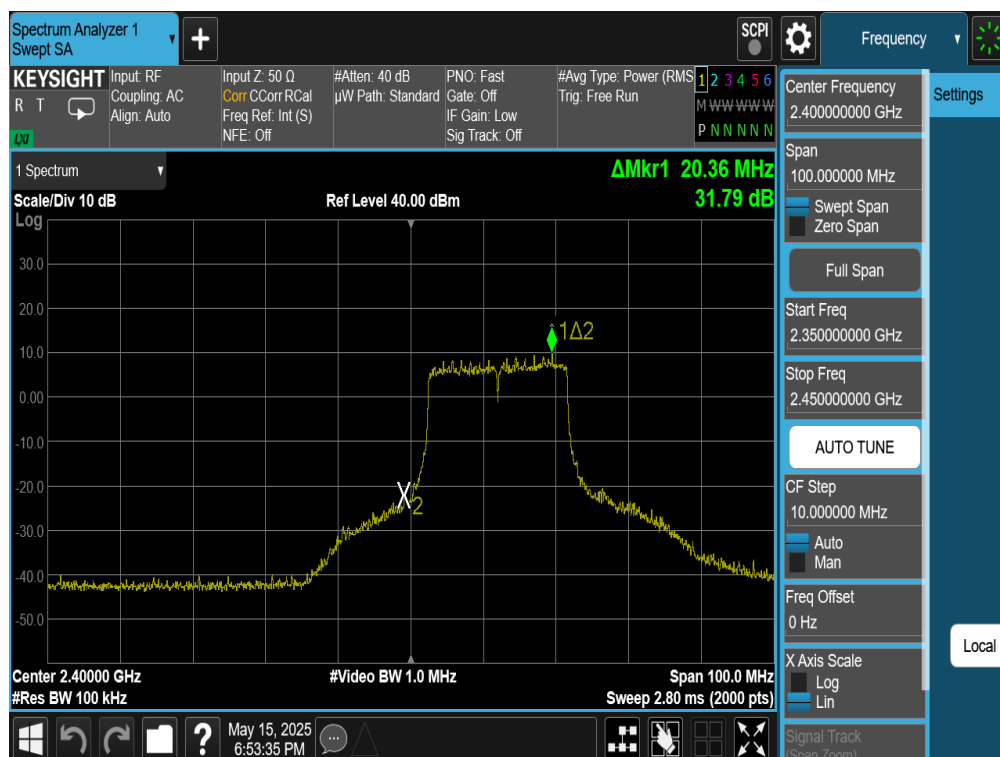
FCC ID: BCGA3358 IC: 579C-A3358		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-55. Band Edge Plot Antenna 4a (802.11n (2.4GHz) – Ch. 13)



Plot 7-56. Band Edge Plot Antenna 4a (802.11be (SU - 2.4GHz) – Ch. 1)

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