



## 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 (Low Energy)

**Applicant Name:**

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

**Date of Testing:**

10/25/2024 - 1/2/2025

**Test Report Issue Date:**

1/8/2025

**Test Site/Location:**

Element Materials Technology, Morgan Hill, CA, USA

**Test Report Serial No.:**

1C2410210073-17.BCG

<b>FCC ID:</b>	<b>BCGA3267</b>
<b>IC:</b>	<b>579C-A3267</b>
<b>APPLICANT:</b>	<b>Apple Inc.</b>

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.

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



CERT #2041.02

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V 10.6 10/27/2023

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## 1 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 PRODUCT INFORMATION

### 2.1 Equipment Description

The Equipment Under Test (EUT) is the **Apple Tablet Device FCC ID: BCGA3267 and IC: 579C-A3267**. The data found in this test report was taken with the EUT operating in Bluetooth low energy mode. While in low energy mode, the Bluetooth transmitter hops pseudo-randomly between 40 channels, three of which are “advertising channels”. When the transmitter is hopping only between the three advertising channels, the EUT does not fall under the category of a “hopper” as defined in 15.247(a)(iii) which states that a “frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels.” As operation on only the advertising channels does not qualify the EUT as a hopper, the EUT is certified as a DTS device in this mode. The data found in this report is representative of the device when it transmits on its advertising channels. Typical Bluetooth operation is covered under the DSS report found with this application.

**Test Device Serial No.:** WGK7CX7DY0, M04CF7DY2K, D4WG6WKFL6, WJR90Q30N3, DLXHA20001L0000QAX

### 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 WLAN, 802.11a/n/ac/ax UNII, 802.11a/ax WIFI 6E, 802.15.4, Bluetooth (1x, EDR, LE1M, LE2M, HDR4, HDR8), NB UNII (1x, HDR4, HDR8), WPT

This device supports BT Beamforming

BLE-1M		BLE-2M	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
00	2402	01	2404
:	:	:	:
19	2440	19	2440
:	:	:	:
39	2480	38	2478

**Table 2-1. Bluetooth LE Frequency / Channel Operations**

**Note:** This device is capable of operating in hopping and non-hopping mode. The EUT can hop between 40 different channels in the 2400 – 2483.5MHz band.

Measured Duty Cycle				
BLE Mode		Duty Cycle [%]		
		Antenna 3a	Antenna 1a	TxBF
1M	ePA	100	100	100
	iPA	100	100	100
2M	ePA	100	100	100
	iPA	100	100	100

**Table 2-2. 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, HDR4/8, LE1/2M	802.15.4	802.11 b/g/n/ax	BDR, HDR4/8	802.11 a/n/ac/ax	802.11 a/ax	LB	MB/HB	Ultra High Band
Ant 3a	Config 1	✓	✗	✗	✗	✓	✗	✗	✓	✗
Ant 3a	Config 2	✗	✓	✗	✗	✓	✗	✗	✓	✗
Ant 3a	Config 3	✗	✗	✓	✓	✗	✗	✗	✓	✗
Ant 3a	Config 4	✓	✗	✗	✗	✗	✓	✗	✓	✗
Ant 3a	Config 5	✗	✓	✗	✗	✗	✓	✗	✓	✗
Ant 3a	Config 6	✓	✗	✗	✗	✓	✗	✗	✗	✗
Ant 3a	Config 7	✗	✓	✗	✗	✓	✗	✗	✗	✗
Ant 3a	Config 8	✗	✗	✓	✓	✗	✗	✗	✗	✗
Ant 3a	Config 9	✓	✗	✗	✗	✗	✓	✗	✗	✗
Ant 3a	Config 10	✗	✓	✗	✗	✗	✓	✗	✗	✗
Ant 1a	Config 11	✓	✗	✗	✗	✗	✗	✗	✗	✓
Ant 1a	Config 12	✗	✓	✗	✗	✗	✗	✗	✗	✓
Ant 1a	Config 13	✗	✗	✓	✗	✗	✗	✗	✗	✓
Ant 1b	Config 14	✗	✗	✗	✗	✗	✓	✗	✗	✓
Ant 1b	Config 15	✗	✗	✗	✗	✓	✗	✗	✗	✓
Ant 1b	Config 16	✗	✗	✗	✓	✗	✗	✗	✗	✓

Table 2-3. 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, RF UNII, and Part 27b test reports.

Specific 2.4 GHz Wi-Fi antenna that can only transmit simultaneously with 2.4 GHz Bluetooth antenna is listed in the SAR test report. For BT (2.4 GHz), in both connected and disconnected modes, and Wi-Fi (2.4 GHz) – Wi-Fi max power will not exceed minimum of (13.5dBm, SAR max cap, Reg max cap) power. Bluetooth can simultaneously transmit with IEEE 802.11a/n/ac/ax 5/6 GHz on separate antenna.

## 2.3 Antenna Description

Following antennas gains provided by manufacturer were used for testing.

Frequency [GHz]	Antenna Gain (dBi)	
	Antenna 3a	Antenna 1a
2.4	3.0	1.6

Table 2-4. Highest Antenna Gain

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## 2.4 Test Support Equipment

Test Support Equipment List					
1	Apple MacBook Pro w/AC/DC Adapter	Model: A2141	S/N: C02H604EQ05D		
2	Apple USB-C Cable	Model: Spartan	S/N: GXK1336018XKTR024		
3	USB-C Cable w/ AC Adapter	Model: A246C	S/N: DWH80115BK826GV19		
4	Apple Pencil	Model: A2538	S/N: KJ26TCFXJW		
5	DC Power Supply	Model: KPS3010D	S/N: N/A		

Table 2-5. Test Support Equipment List

## 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.

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

## 2.6 Software and Firmware

The test was conducted with firmware version 22D20 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 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 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 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 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	ML2495A	Power Meter	7/8/2024	Annual	7/8/2025	1039008
Anritsu	MA2411B	Pulse Power Sensor	7/1/2024	Annual	7/1/2025	1911105
Anritsu	MA2411B	Pulse Power Sensor	10/21/2024	Annual	10/21/2025	1027293
ATM	180-442A-KF	20dB Nominal Gain Horn Antenna	3/14/2024	Annual	3/14/2025	T058701-01
ETS-Lindgren	3117	Double Ridged Guide Antenna (1-18 GHz)	4/9/2024	Annual	4/9/2025	00218555
Fairview Microwave/MCL	FMCA1975-36/BW-K10-2W44+	30MHz-40GHz RF Cable/Attenuator *	6/10/2024	Annual	6/10/2025	-
Keysight Technology	N9040B	UXA Signal Analyzer	5/28/2024	Annual	5/28/2025	MY57212015
Keysight Technology	N9030A	PXA Signal Analyzer	7/11/2024	Annual	7/11/2025	MY49430244
Rohde & Schwarz	TS-PR18	Pre-Amplifier (1GHz - 18GHz)	3/1/2024	Annual	3/1/2025	102145
Rohde & Schwarz	TS-PR18	Pre-Amplifier (1GHz - 18GHz)	8/14/2024	Annual	8/14/2025	101648
Rohde & Schwarz	FSV40	Signal Analyzer (10Hz-40GHz)	5/29/2024	Annual	5/29/2025	101619
Rohde & Schwarz	ESW44	EMI Test Receiver	5/1/2024	Annual	5/1/2025	101867
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz - 8GHz)	7/3/2024	Annual	7/3/2025	102356
Rohde & Schwarz	TS-PR1840	Pre-Amplifier (18GHz - 40GHz)	6/10/2024	Annual	6/10/2025	100057
Rohde & Schwarz	HFH2-Z2	Loop Antenna	6/21/2024	Annual	6/21/2025	100519
Rohde & Schwarz	ENV216	Two-Line V-Network	4/24/2024	Annual	4/24/2025	101364
Schwarzbeck	VULB 9162	Bilog Antenna (30MHz - 6GHz)	4/29/2024	Annual	4/29/2025	00304

**Table 6-1. Test Equipment List**

**Note:**

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

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## 7 TEST RESULTS

### 7.1 Summary

Company Name: Apple Inc.  
 FCC ID: BCGA3267  
 IC: 579C-A3267  
 FCC Classification: Digital Transmission System (DTS)  
 Number of Channels: 40

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])	LINE CONDUCTED	PASS	Section 7.9

**Table 7-1. Summary of Test Results**

**Notes:**

1. All modes of operation were investigated. The test results shown in the following sections represent the worst case emissions.
2. The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
3. All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.
4. For conducted spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element "Conducted Automation," Version 1.1.1.
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 3.1.0.

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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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## Antenna 3a

Frequency [MHz]	Data Rate [Mbps]	Power Scheme	Channel	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass/Fail
2402	1.0	ePA	0	1.061	0.720	0.500	Pass
2440	1.0	ePA	19	1.059	0.721	0.500	Pass
2480	1.0	ePA	39	1.061	0.724	0.500	Pass
2404	2.0	ePA	1	2.128	1.411	0.500	Pass
2440	2.0	ePA	19	2.125	1.412	0.500	Pass
2478	2.0	ePA	38	2.127	1.411	0.500	Pass

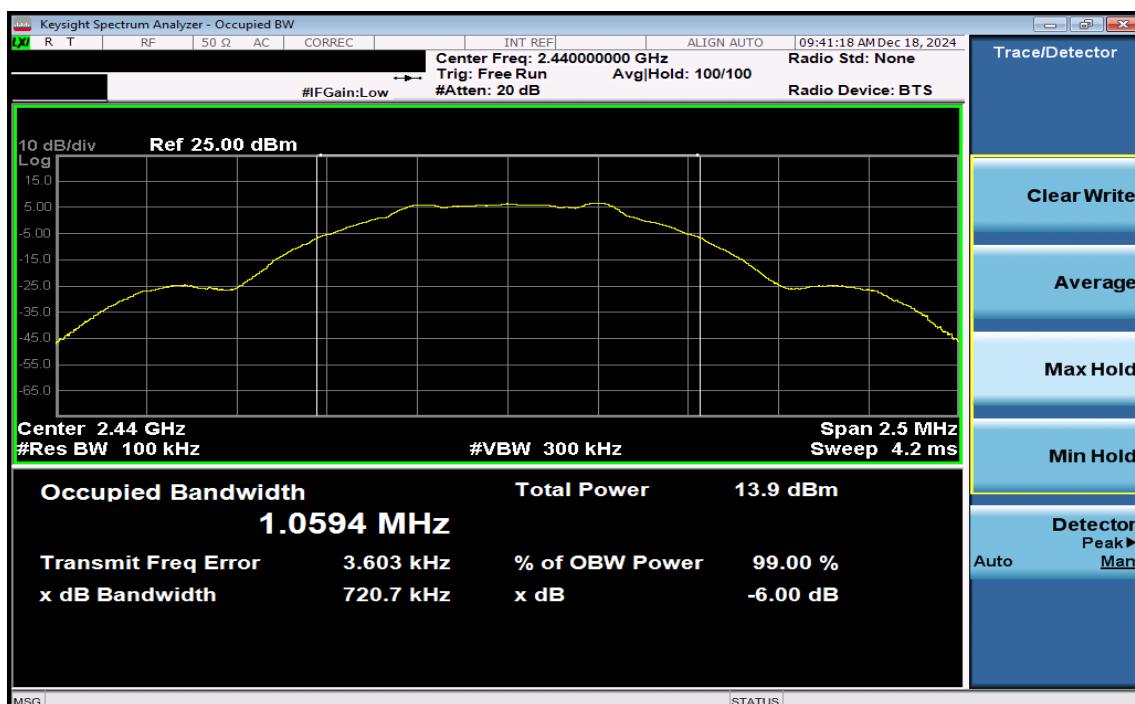
Table 7-2. 6dB BW & 99% OBW Measurements Antenna 3a

FCC ID: BCGA3267 IC: 579C-A3267	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
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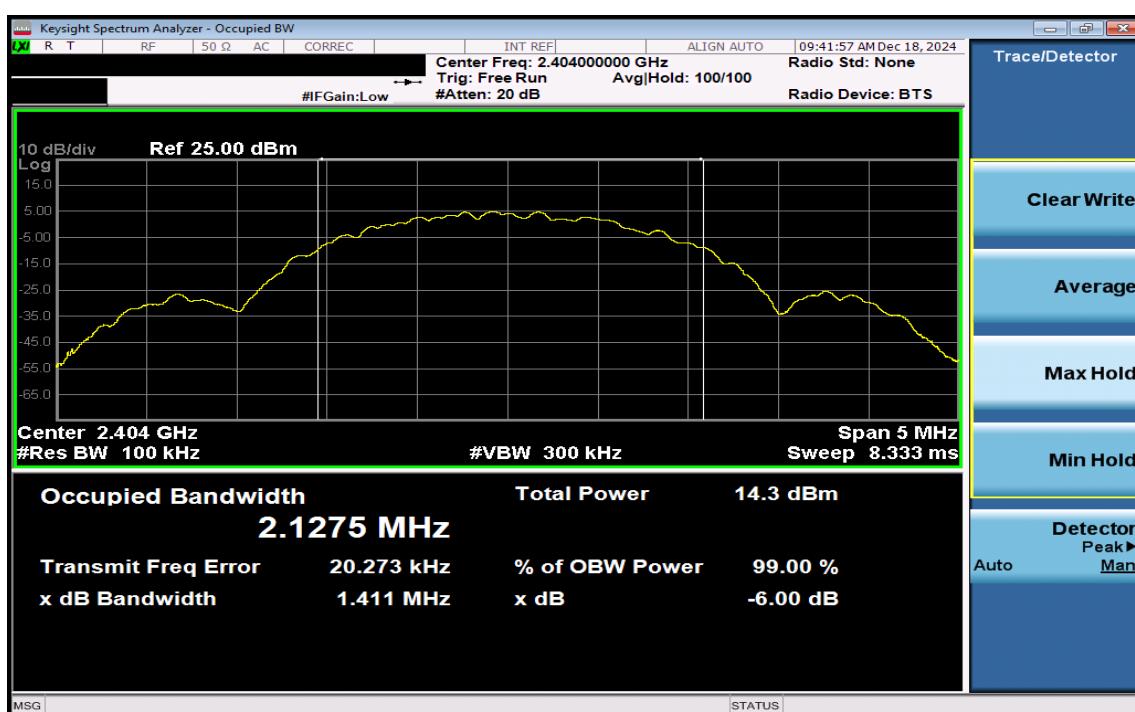
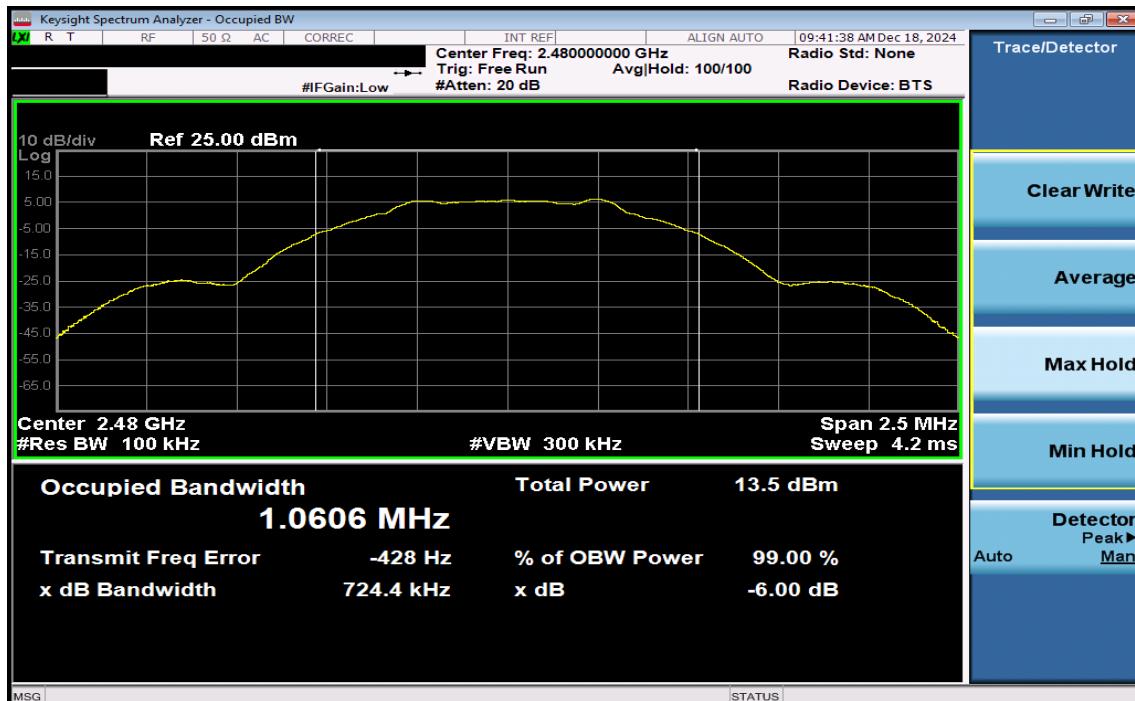


**Plot 7-1. 6dB BW & 99% OBW Plot Antenna 3a (Bluetooth (LE), 1Mbps, ePA – Ch. 0)**

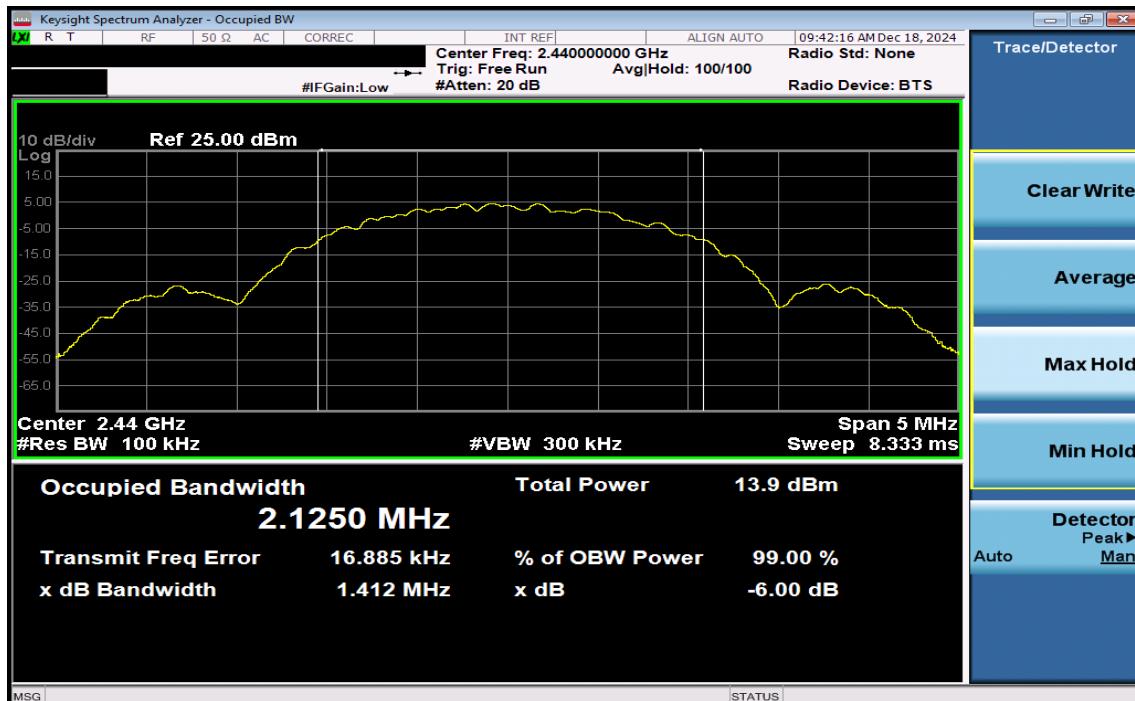


**Plot 7-2.6dB BW & 99% OBW Plot Antenna 3a (Bluetooth (LE), 1Mbps, ePA – Ch. 19)**

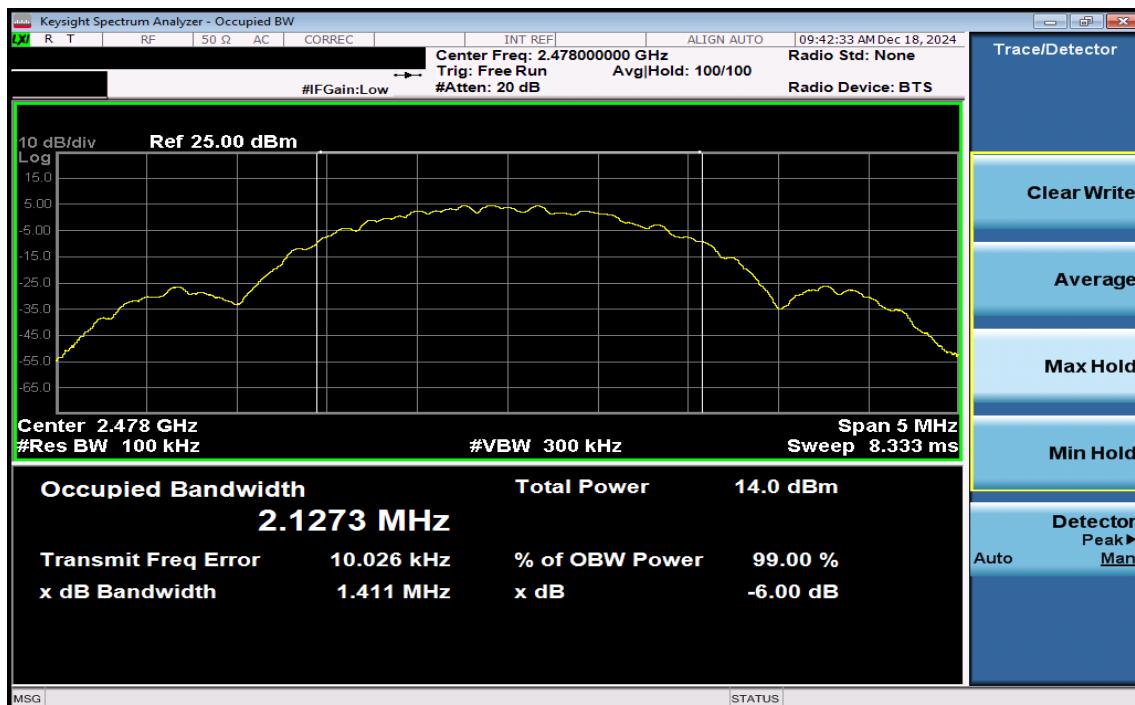
FCC ID: BCGA3267 IC: 579C-A3267	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-5. 6dB BW &amp; 99% OBW Plot Antenna 3a (Bluetooth (LE), 2Mbps, ePA – Ch. 19)



Plot 7-6. 6dB BW &amp; 99% OBW Plot Antenna 3a (Bluetooth (LE), 2Mbps, ePA – Ch. 38)

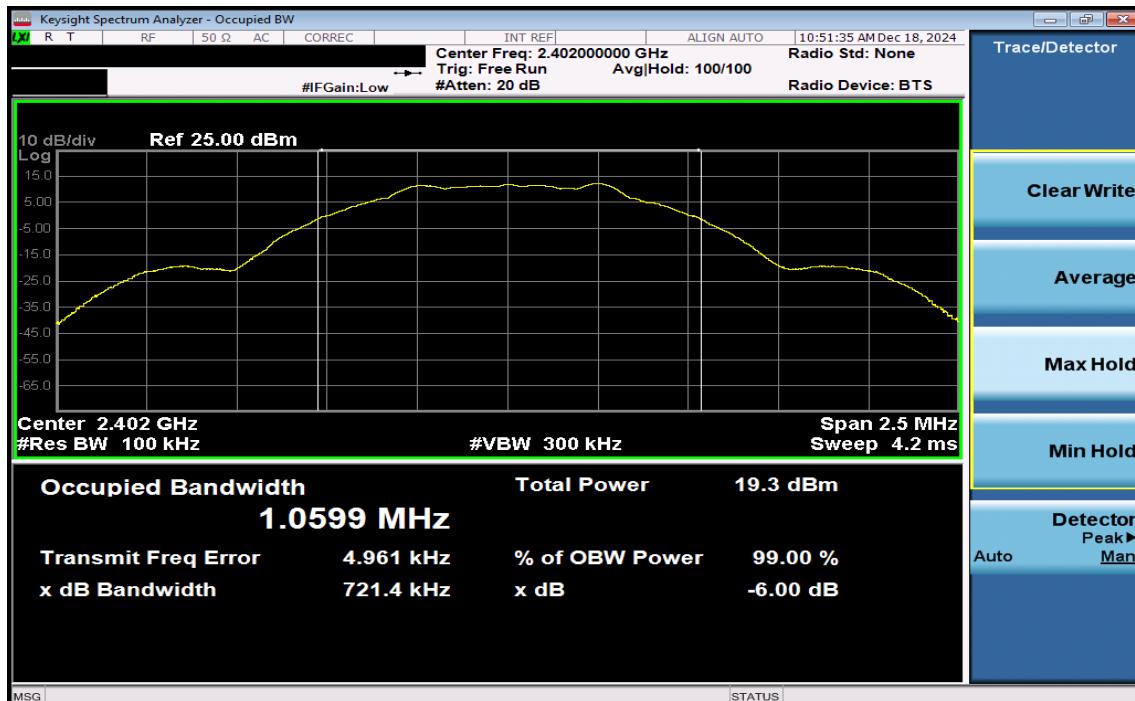
FCC ID: BCGA3267 IC: 579C-A3267	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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**Antenna 1a**

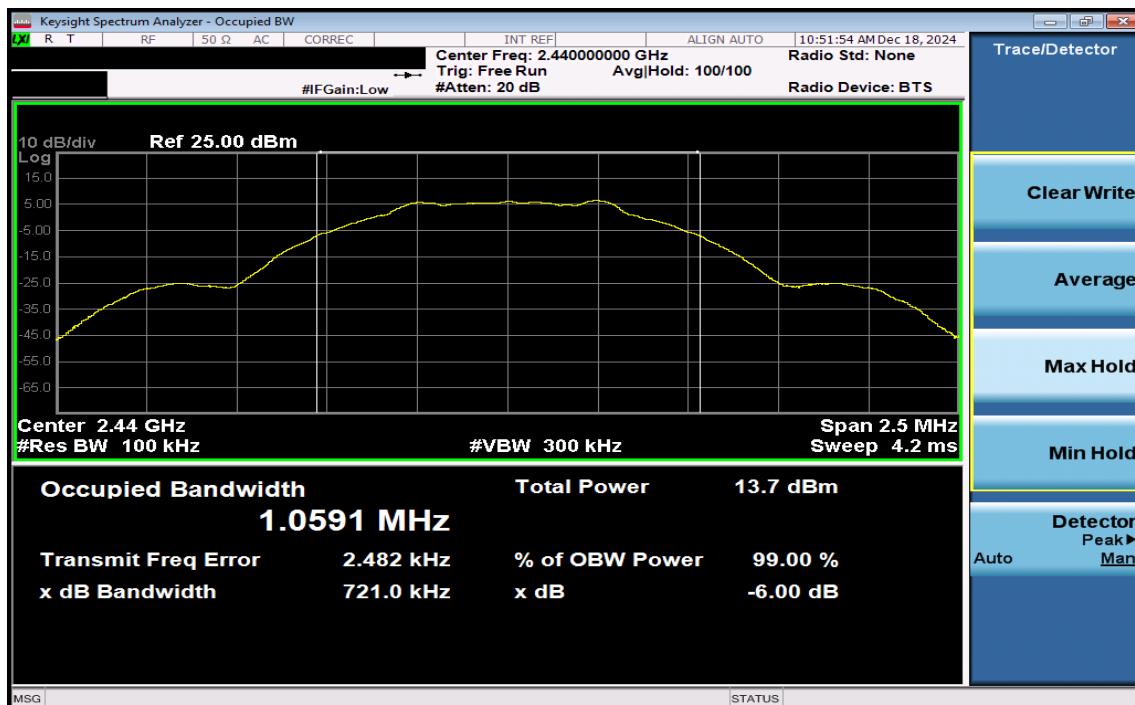
Frequency [MHz]	Data Rate [Mbps]	Power Scheme	Channel	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass/Fail
2402	1.0	ePA	0	1.060	0.721	0.500	Pass
2440	1.0	ePA	19	1.059	0.721	0.500	Pass
2480	1.0	ePA	39	1.058	0.723	0.500	Pass
2404	2.0	ePA	1	2.128	1.410	0.500	Pass
2440	2.0	ePA	19	2.125	1.413	0.500	Pass
2478	2.0	ePA	38	2.125	1.412	0.500	Pass

**Table 7-3. 6dB BW & 99% OBW Measurements Antenna 1a**

FCC ID: BCGA3267 IC: 579C-A3267	 <b>element</b> <b>MEASUREMENT REPORT (CERTIFICATION)</b>			Approved by: Technical Manager
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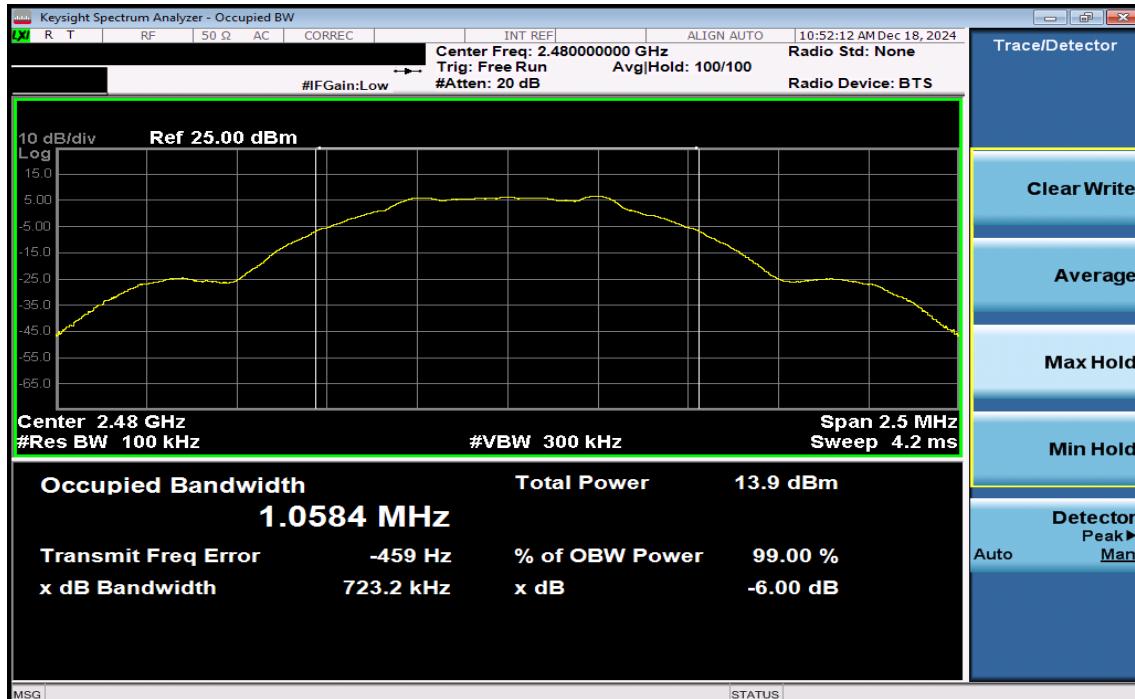


Plot 7-7. 6dB BW & 99% OBW Plot Antenna 1a (Bluetooth (LE), 1Mbps, ePA – Ch. 0)

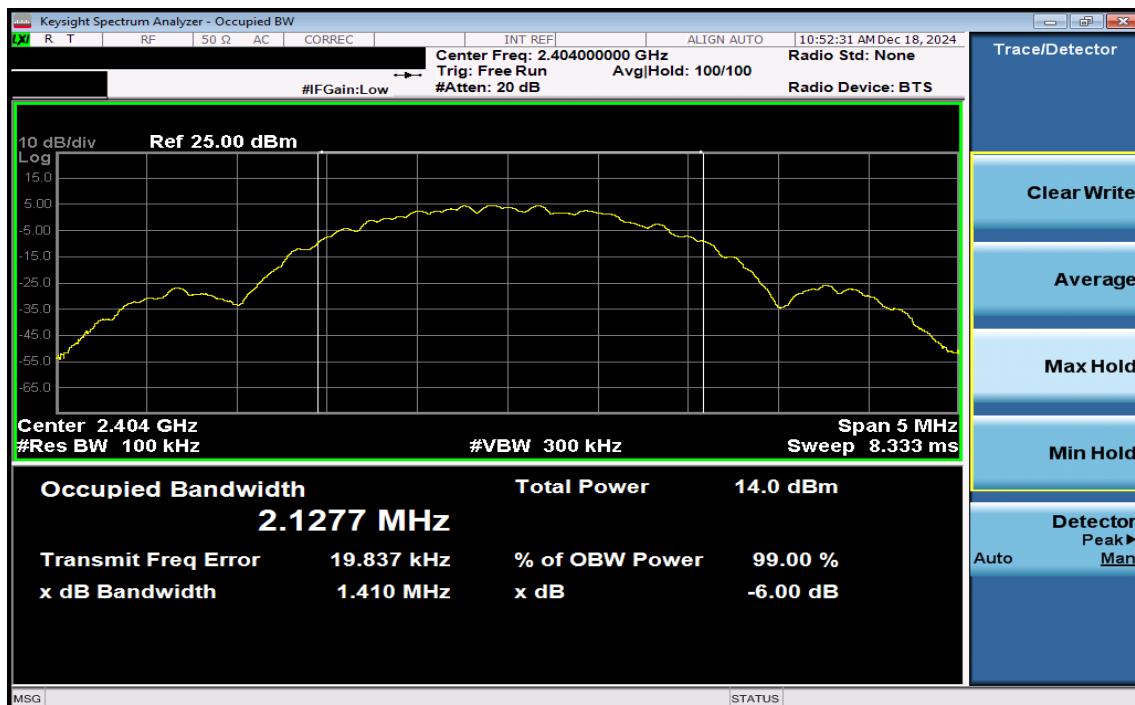


Plot 7-8.6dB BW & 99% OBW Plot Antenna 1a (Bluetooth (LE), 1Mbps, ePA – Ch. 19)

FCC ID: BCGA3267 IC: 579C-A3267	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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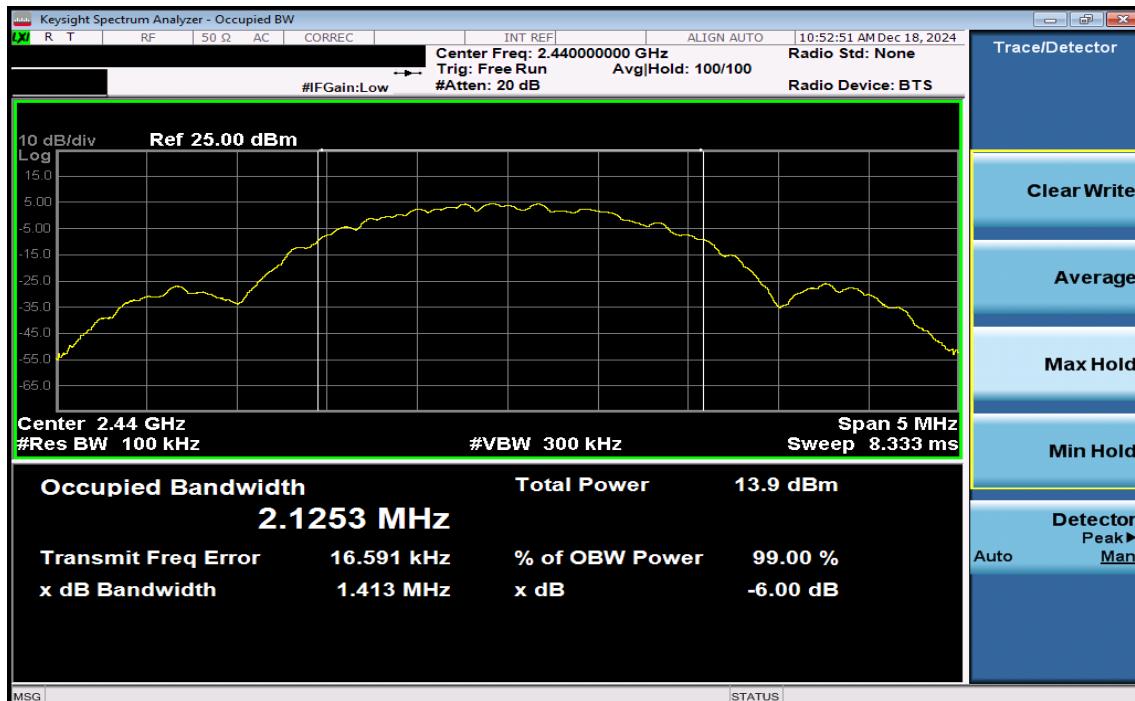


Plot 7-9. 6dB BW &amp; 99% OBW Plot Antenna 1a (Bluetooth (LE), 1Mbps, ePA – Ch. 39)

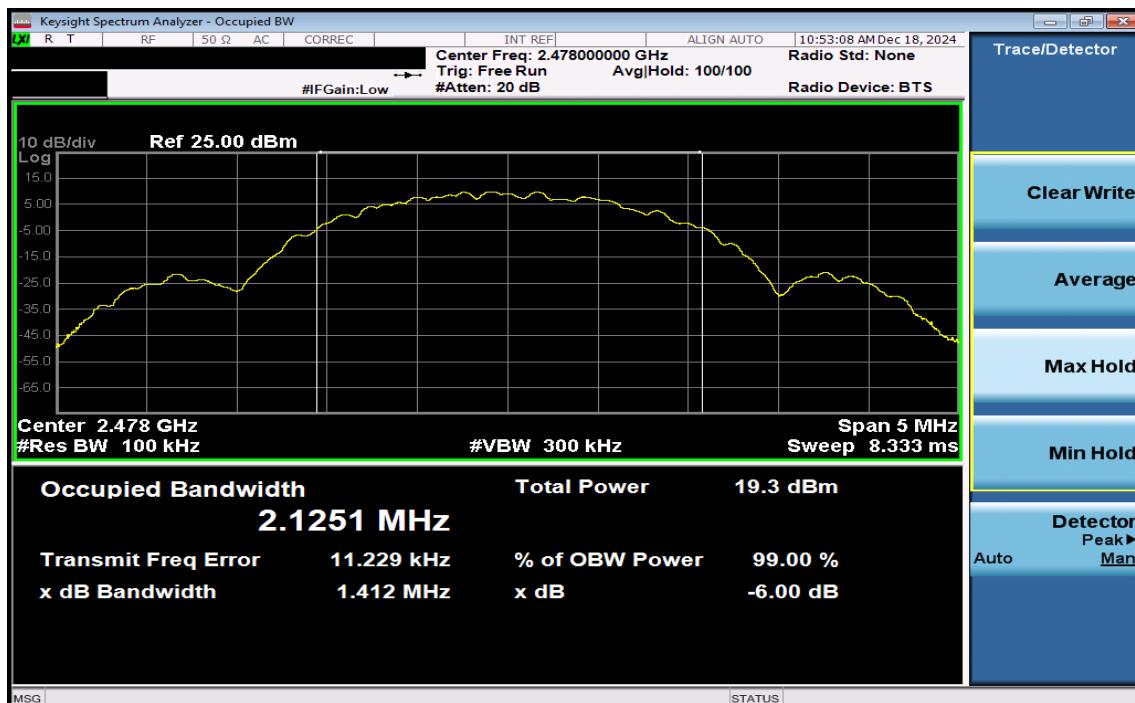


Plot 7-10. 6dB BW &amp; 99% OBW Plot Antenna 1a (Bluetooth (LE), 2Mbps, ePA – Ch. 1)

FCC ID: BCGA3267 IC: 579C-A3267	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-11. 6dB BW & 99% OBW Plot Antenna 1a (Bluetooth (LE), 2Mbps, ePA – Ch. 19)



Plot 7-12. 6dB BW & 99% OBW Plot Antenna 1a (Bluetooth (LE), 2Mbps, ePA – Ch. 38)

FCC ID: BCGA3267		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 E1) 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 (LE)

Frequency [MHz]	Data Rate [Mbps]	Power Scheme	Channel No.	Peak Conducted Power		Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	EIRP Margin [dB]
				[dBm]	[mW]						
2402	1.0	ePA	0	12.80	19.055	30.00	-17.20	3.00	15.80	36.02	-20.22
2440	1.0	ePA	19	12.60	18.197	30.00	-17.41	3.00	15.60	36.02	-20.43
2480	1.0	ePA	39	12.36	17.219	30.00	-17.64	3.00	15.36	36.02	-20.66
2402	1.0	iPA	0	10.54	11.324	30.00	-19.46	3.00	13.54	36.02	-22.48
2440	1.0	iPA	19	10.61	11.508	30.00	-19.39	3.00	13.61	36.02	-22.41
2480	1.0	iPA	39	10.57	11.402	30.00	-19.43	3.00	13.57	36.02	-22.45
2404	2.0	ePA	1	12.86	19.320	30.00	-17.14	3.00	15.86	36.02	-20.16
2440	2.0	ePA	19	12.82	19.143	30.00	-17.18	3.00	15.82	36.02	-20.20
2478	2.0	ePA	38	12.40	17.378	30.00	-17.60	3.00	15.40	36.02	-20.62
2404	2.0	iPA	1	10.64	11.588	30.00	-19.36	3.00	13.64	36.02	-22.38
2440	2.0	iPA	19	10.60	11.482	30.00	-19.40	3.00	13.60	36.02	-22.42
2478	2.0	iPA	38	10.70	11.749	30.00	-19.30	3.00	13.70	36.02	-22.32

Table 7-4. Peak Conducted Output Power Measurements Antenna 3a (Bluetooth LE)

Frequency [MHz]	Data Rate [Mbps]	Power Scheme	Channel No.	Peak Conducted Power		Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	EIRP Margin [dB]
				[dBm]	[mW]						
2402	1.0	ePA	0	12.76	18.880	30.00	-17.24	1.60	14.36	36.02	-21.66
2440	1.0	ePA	19	12.48	17.701	30.00	-17.52	1.60	14.08	36.02	-21.94
2480	1.0	ePA	39	12.53	17.906	30.00	-17.47	1.60	14.13	36.02	-21.89
2402	1.0	iPA	0	10.62	11.535	30.00	-19.38	1.60	12.22	36.02	-23.80
2440	1.0	iPA	19	10.33	10.789	30.00	-19.67	1.60	11.93	36.02	-24.09
2480	1.0	iPA	39	10.35	10.839	30.00	-19.65	1.60	11.95	36.02	-24.07
2404	2.0	ePA	1	12.50	17.783	30.00	-17.50	1.60	14.10	36.02	-21.92
2440	2.0	ePA	19	12.44	17.539	30.00	-17.56	1.60	14.04	36.02	-21.98
2478	2.0	ePA	38	12.57	18.072	30.00	-17.43	1.60	14.17	36.02	-21.85
2404	2.0	iPA	1	10.47	11.143	30.00	-19.53	1.60	12.07	36.02	-23.95
2440	2.0	iPA	19	10.32	10.765	30.00	-19.68	1.60	11.92	36.02	-24.10
2478	2.0	iPA	38	10.44	11.066	30.00	-19.56	1.60	12.04	36.02	-23.98

Table 7-5. Peak Conducted Output Power Measurements Antenna 1a (Bluetooth LE)

Frequency [MHz]	Data Rate [Mbps]	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 3a		Antenna 1a		Summed													
				[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]												
2402	1.0	ePA	0	12.69	18.578	12.80	19.055	15.76	37.670	30.00	-14.24	5.34	21.10	36.02	-14.92						
2440	1.0	ePA	19	12.68	18.535	12.41	17.418	15.56	35.975	30.00	-14.44	5.34	20.90	36.02	-15.12						
2480	1.0	ePA	39	12.79	19.011	12.45	17.579	15.64	36.644	30.00	-14.36	5.34	20.98	36.02	-15.04						
2402	1.0	iPA	0	10.40	10.965	10.51	11.246	13.47	22.233	30.00	-16.53	5.34	18.81	36.02	-17.21						
2440	1.0	iPA	19	10.47	11.143	10.69	11.722	13.59	22.856	30.00	-16.41	5.34	18.93	36.02	-17.09						
2480	1.0	iPA	39	10.46	11.117	10.43	11.041	13.45	22.131	30.00	-16.55	5.34	18.79	36.02	-17.23						
2404	2.0	ePA	1	12.50	17.783	12.52	17.865	15.52	35.645	30.00	-14.48	5.34	20.86	36.02	-15.16						
2440	2.0	ePA	19	12.65	18.408	12.45	17.579	15.56	35.975	30.00	-14.44	5.34	20.90	36.02	-15.12						
2478	2.0	ePA	38	12.83	19.187	12.53	17.906	15.69	37.068	30.00	-14.31	5.34	21.03	36.02	-14.99						
2404	2.0	iPA	1	10.74	11.858	10.64	11.588	13.70	23.442	30.00	-16.30	5.34	19.04	36.02	-16.98						
2440	2.0	iPA	19	10.75	11.885	10.74	11.858	13.76	23.768	30.00	-16.24	5.34	19.10	36.02	-16.92						
2478	2.0	iPA	38	10.59	11.455	10.43	11.041	13.52	22.491	30.00	-16.48	5.34	18.86	36.02	-17.16						

Table 7-6. Peak Conducted Output Power Measurements TxBF (Bluetooth LE)

FCC ID: BCGA3267 IC: 579C-A3267	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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### 7.3.2 Average Output Power Measurement – Bluetooth (LE)

Frequency [MHz]	Data Rate [Mbps]	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]						
2402	1.0	ePA	0	12.47	17.660	30.00	-17.53	3.00	15.47	36.02	-20.55
2440	1.0	ePA	19	12.28	16.904	30.00	-17.72	3.00	15.28	36.02	-20.74
2480	1.0	ePA	39	12.02	15.922	30.00	-17.98	3.00	15.02	36.02	-21.00
2402	1.0	iPA	0	10.29	10.691	30.00	-19.71	3.00	13.29	36.02	-22.73
2440	1.0	iPA	19	10.35	10.839	30.00	-19.65	3.00	13.35	36.02	-22.67
2480	1.0	iPA	39	10.35	10.839	30.00	-19.65	3.00	13.35	36.02	-22.67
2404	2.0	ePA	1	12.47	17.660	30.00	-17.53	3.00	15.47	36.02	-20.55
2440	2.0	ePA	19	12.44	17.539	30.00	-17.56	3.00	15.44	36.02	-20.58
2478	2.0	ePA	38	12.01	15.885	30.00	-17.99	3.00	15.01	36.02	-21.01
2404	2.0	iPA	1	10.35	10.839	30.00	-19.65	3.00	13.35	36.02	-22.67
2440	2.0	iPA	19	10.31	10.740	30.00	-19.69	3.00	13.31	36.02	-22.71
2478	2.0	iPA	38	10.43	11.041	30.00	-19.57	3.00	13.43	36.02	-22.59

Table 7-7. Average Conducted Output Power Measurements Antenna 3a (Bluetooth LE)

Frequency [MHz]	Data Rate [Mbps]	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]						
2402	1.0	ePA	0	12.43	17.498	30.00	-17.57	1.60	14.03	36.02	-21.99
2440	1.0	ePA	19	12.16	16.444	30.00	-17.84	1.60	13.76	36.02	-22.26
2480	1.0	ePA	39	12.22	16.672	30.00	-17.79	1.60	13.82	36.02	-22.21
2402	1.0	iPA	0	10.37	10.889	30.00	-19.63	1.60	11.97	36.02	-24.05
2440	1.0	iPA	19	10.06	10.139	30.00	-19.94	1.60	11.66	36.02	-24.36
2480	1.0	iPA	39	10.09	10.209	30.00	-19.91	1.60	11.69	36.02	-24.33
2404	2.0	ePA	1	12.10	16.218	30.00	-17.90	1.60	13.70	36.02	-22.32
2440	2.0	ePA	19	12.07	16.106	30.00	-17.94	1.60	13.67	36.02	-22.36
2478	2.0	ePA	38	12.19	16.558	30.00	-17.81	1.60	13.79	36.02	-22.23
2404	2.0	iPA	1	10.17	10.399	30.00	-19.83	1.60	11.77	36.02	-24.25
2440	2.0	iPA	19	10.01	10.023	30.00	-19.99	1.60	11.61	36.02	-24.41
2478	2.0	iPA	38	10.13	10.304	30.00	-19.87	1.60	11.73	36.02	-24.29

Table 7-8. Average Conducted Output Power Measurements Antenna 1a (Bluetooth LE)

Frequency [MHz]	Data Rate [Mbps]	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 3a		Antenna 1a													
				[dBm]	[mW]	[dBm]	[mW]												
2402	1.0	ePA	0	12.38	17.298	12.48	17.701	15.44	34.995	30.00	-14.56	5.34	20.78	36.02	-15.24				
2440	1.0	ePA	19	12.38	17.298	12.10	16.218	15.25	33.497	30.00	-14.75	5.34	20.59	36.02	-15.43				
2480	1.0	ePA	39	12.49	17.742	12.13	16.331	15.32	34.041	30.00	-14.68	5.34	20.66	36.02	-15.36				
2402	1.0	iPA	0	10.15	10.351	10.26	10.617	13.22	20.389	30.00	-16.78	5.34	18.55	36.02	-17.46				
2440	1.0	iPA	19	10.21	10.495	10.43	11.041	13.33	21.528	30.00	-16.67	5.34	18.67	36.02	-17.35				
2480	1.0	iPA	39	10.23	10.544	10.17	10.399	13.21	20.941	30.00	-16.79	5.34	18.55	36.02	-17.47				
2404	2.0	ePA	1	12.11	16.255	12.12	16.293	15.13	32.584	30.00	-14.87	5.34	20.47	36.02	-15.55				
2440	2.0	ePA	19	12.28	16.904	12.06	16.069	15.18	32.961	30.00	-14.82	5.34	20.52	36.02	-15.50				
2478	2.0	ePA	38	12.46	17.620	12.15	16.406	15.31	33.963	30.00	-14.69	5.34	20.65	36.02	-15.37				
2404	2.0	iPA	1	10.46	11.117	10.35	10.839	13.42	21.979	30.00	-16.58	5.34	18.76	36.02	-17.26				
2440	2.0	iPA	19	10.46	11.117	10.44	11.066	13.46	22.182	30.00	-16.54	5.34	18.80	36.02	-17.22				
2478	2.0	iPA	38	10.32	10.765	10.12	10.280	13.23	21.038	30.00	-16.77	5.34	18.57	36.02	-17.45				

Table 7-9. Average Conducted Output Power Measurements TxBF (Bluetooth LE)

FCC ID: BCGA3267 IC: 579C-A3267	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-17.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 25 of 89

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**Note:**

Per ANSI C63.10-2020 and KDB 662911 D01 v02r01 Section E1), the conducted powers at Antenna 3a and Antenna 1a 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 2402MHz the average conducted output power was measured to be 12.38 dBm for Antenna 3a and 12.48 dBm for Antenna 1a.

$$\text{Antenna 3a} + \text{Antenna 1a} = \text{TxBF}$$

$$(12.38 \text{ dBm} + 12.48 \text{ dBm}) = (17.298 \text{ mW} + 17.701 \text{ mW}) = 34.995 \text{ mW} = 15.44 \text{ dBm}$$

**Sample e.i.r.p. Calculation:**

At 2402MHz, the average conducted output power was calculated to be 15.44 dBm with directional gain of 5.34 dBi.

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

$$15.44 \text{ dBm} + 5.34 \text{ dBi} = 20.78 \text{ dBm}$$

FCC ID: BCGA3267 IC: 579C-A3267		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-17.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 26 of 89

## 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 x RBW
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Trace was allowed to stabilize

### Test Setup

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



**Figure 7-3. Test Instrument & Measurement Setup**

### Test Notes

None

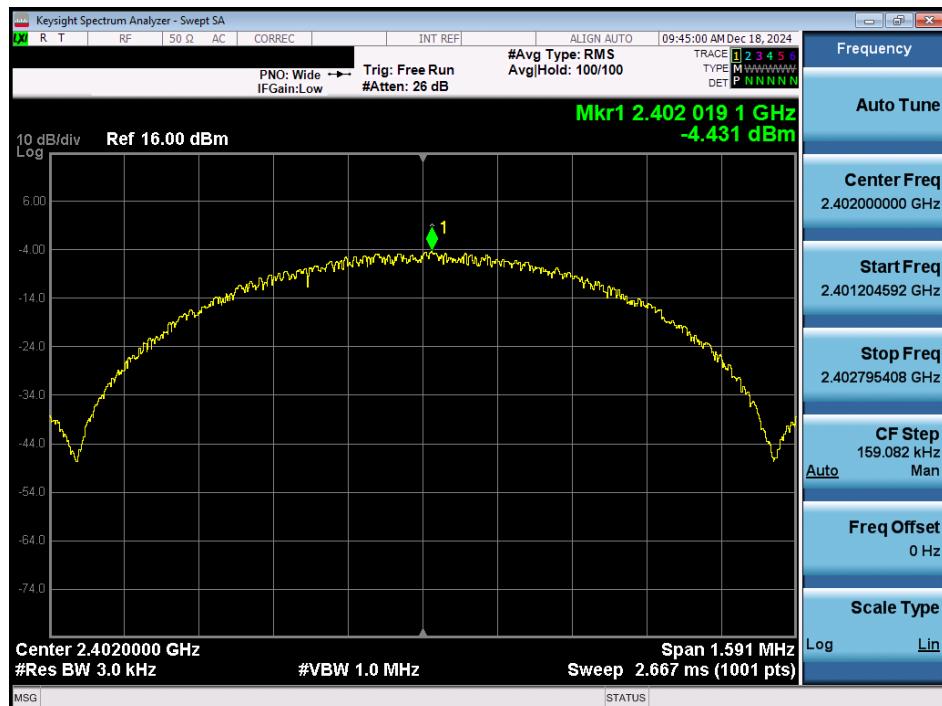
FCC ID: BCGA3267 IC: 579C-A3267	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-17.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 27 of 89

**Antenna 3a**

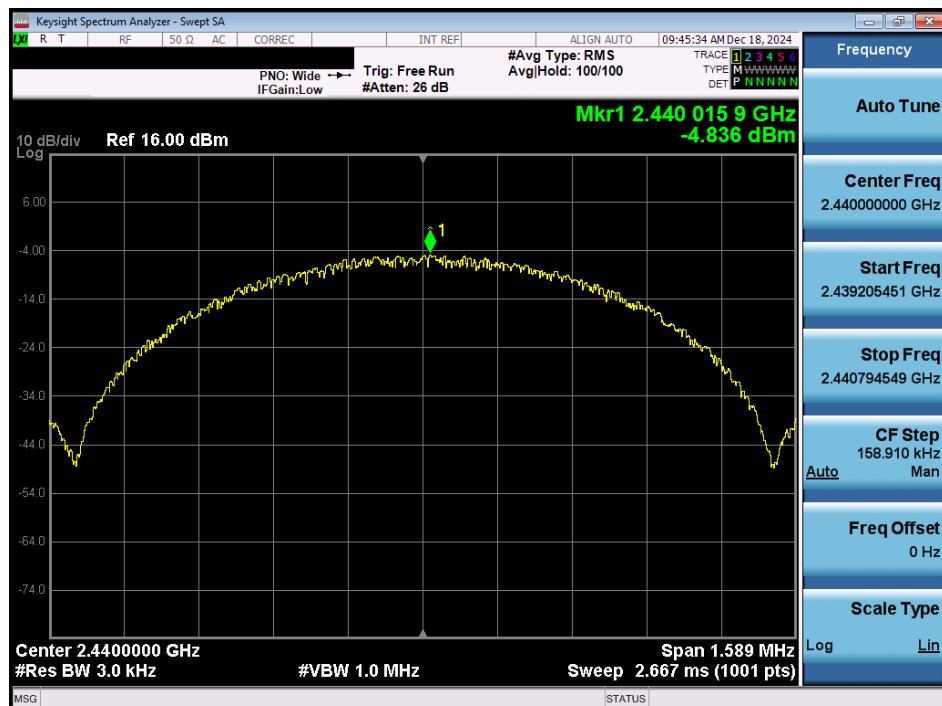
Frequency [MHz]	Data Rate [Mbps]	Power Scheme	Channel No.	Measured Power Density [dBm/3kHz]	Max Power Density [dBm/3kHz]	Margin [dB]
2402	1.0	ePA	0	-4.43	8.0	-12.43
2440	1.0	ePA	19	-4.84	8.0	-12.84
2480	1.0	ePA	39	-4.57	8.0	-12.57
2402	1.0	iPA	0	-6.78	8.0	-14.78
2440	1.0	iPA	19	-6.68	8.0	-14.68
2480	1.0	iPA	39	-6.99	8.0	-14.99
2404	2.0	ePA	1	-10.21	8.0	-18.21
2440	2.0	ePA	19	-10.43	8.0	-18.43
2478	2.0	ePA	38	-10.55	8.0	-18.55
2404	2.0	iPA	1	-12.13	8.0	-20.13
2440	2.0	iPA	19	-12.28	8.0	-20.28
2478	2.0	iPA	38	-12.20	8.0	-20.20

**Table 7-10. Conducted Power Density Measurements Antenna 3a**

FCC ID: BCGA3267 IC: 579C-A3267	 <b>element</b> <b>MEASUREMENT REPORT (CERTIFICATION)</b>			Approved by: Technical Manager
Test Report S/N: 1C2410210073-17.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 28 of 89	

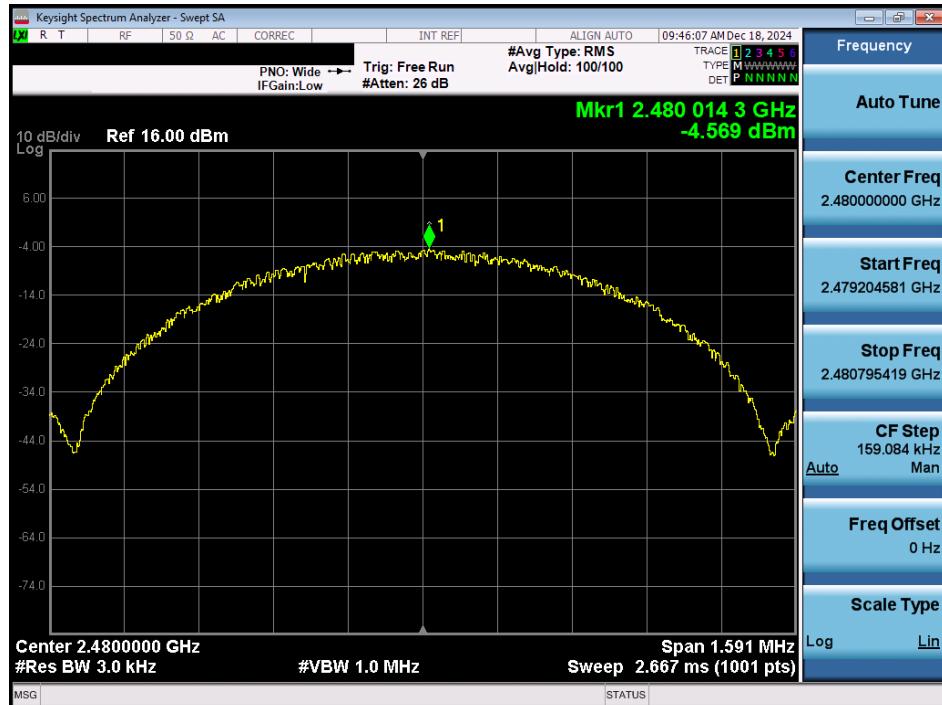


**Plot 7-13. Power Spectral Density Plot Antenna 3a (Bluetooth (LE), 1Mbps, ePA – Ch. 0)**



**Plot 7-14. Power Spectral Density Plot Antenna 3a (Bluetooth (LE), 1Mbps, ePA – Ch. 19)**

FCC ID: BCGA3267 IC: 579C-A3267	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-17.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 29 of 89

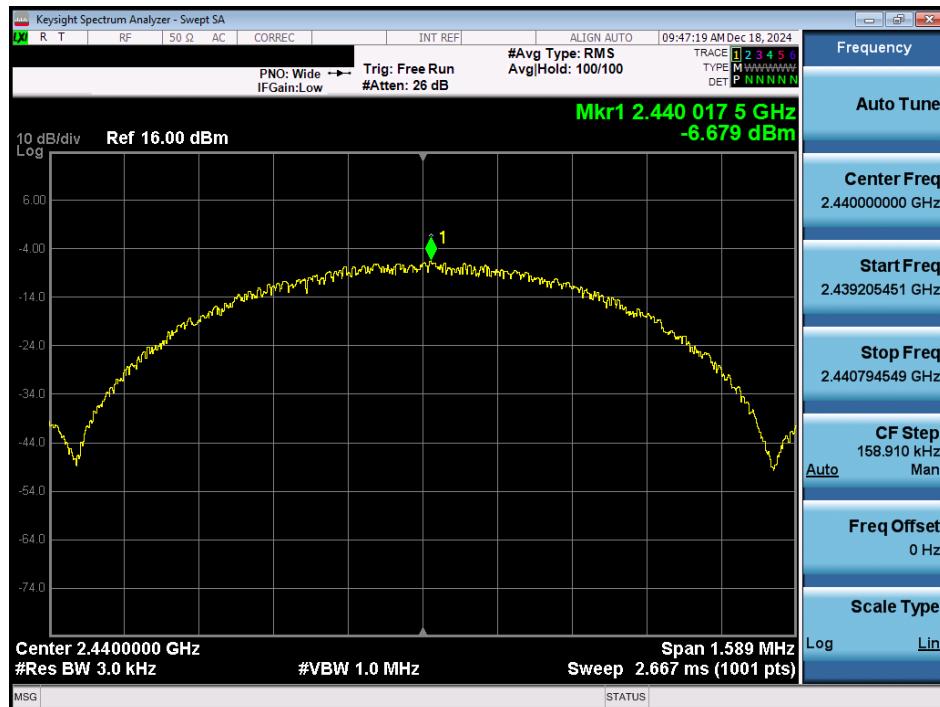


**Plot 7-15. Power Spectral Density Plot Antenna 3a (Bluetooth (LE), 1Mbps, ePA – Ch. 39)**

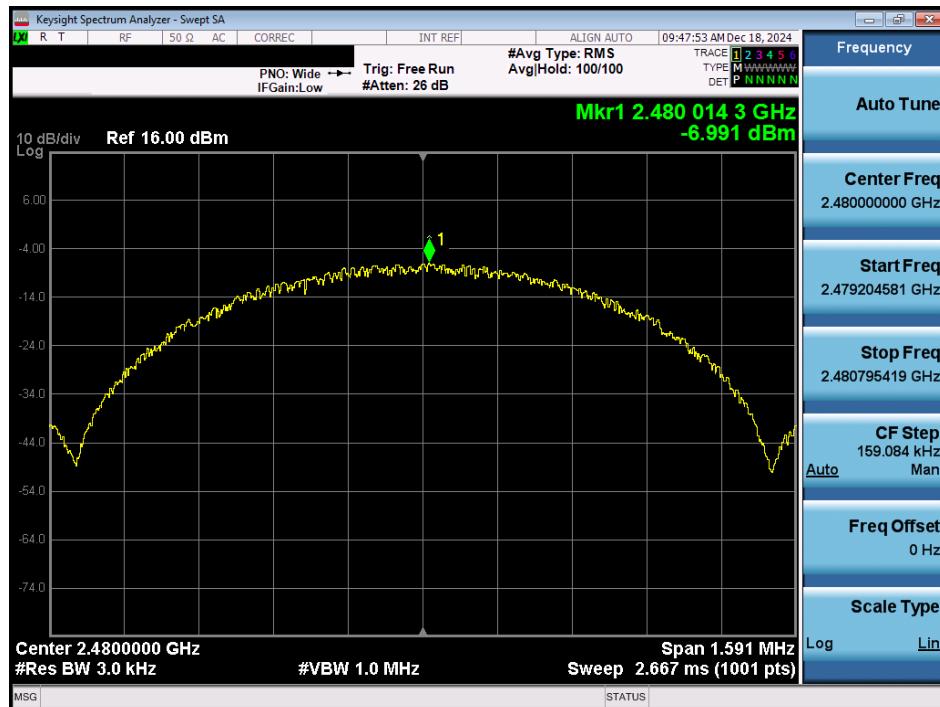


**Plot 7-16. Power Spectral Density Plot Antenna 3a (Bluetooth (LE), 1Mbps, iPA – Ch. 0)**

FCC ID: BCGA3267 IC: 579C-A3267	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-17.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 30 of 89

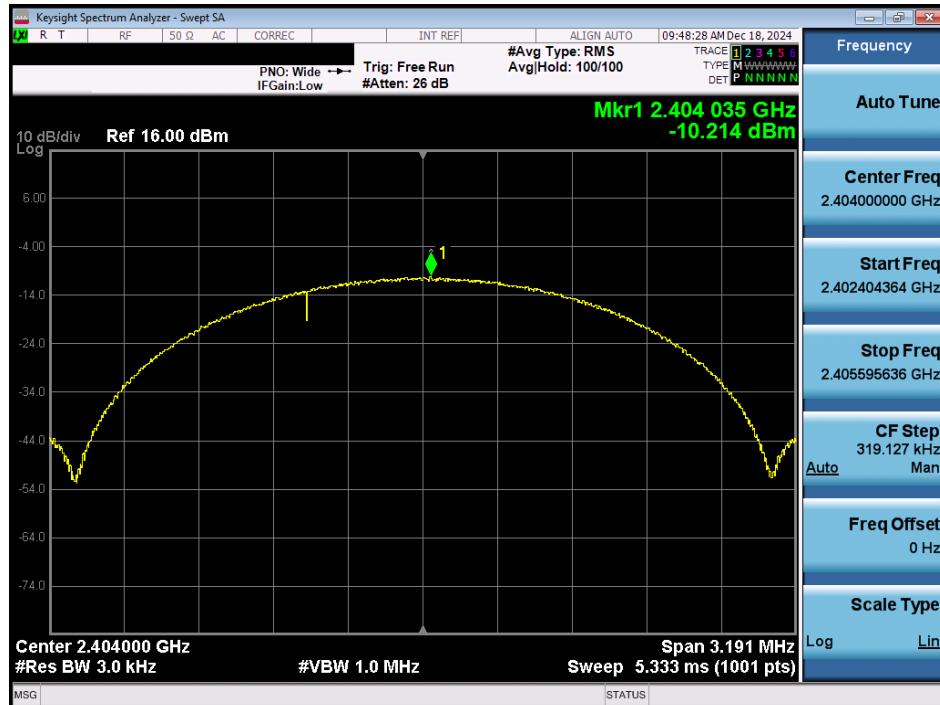


**Plot 7-17. Power Spectral Density Plot Antenna 3a (Bluetooth (LE), 1Mbps, iPA – Ch. 19)**

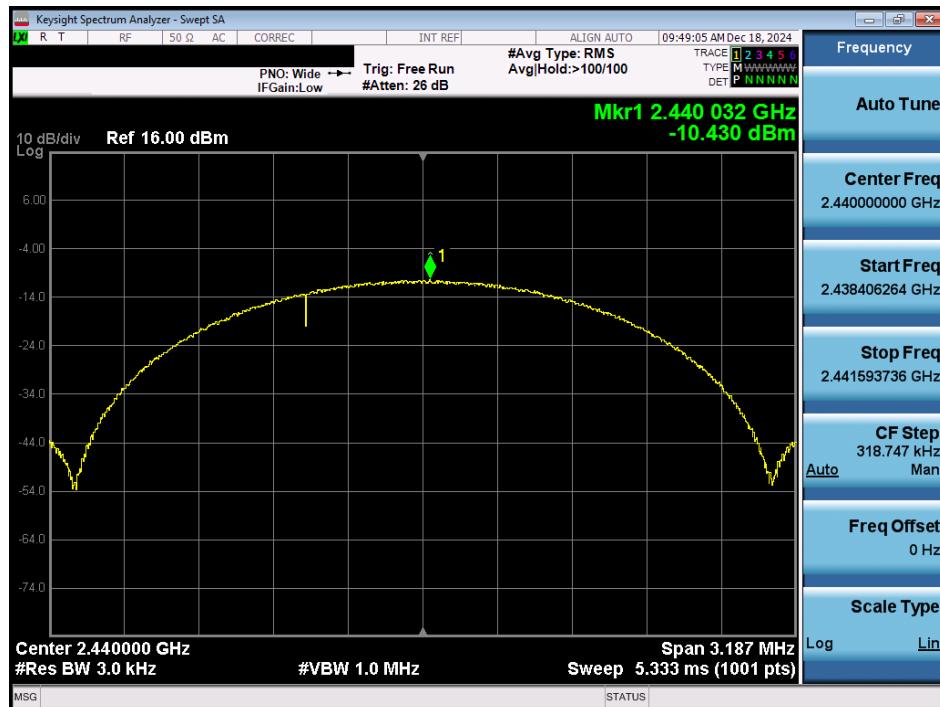


**Plot 7-18. Power Spectral Density Plot Antenna 3a (Bluetooth (LE), 1Mbps, iPA – Ch. 39)**

FCC ID: BCGA3267 IC: 579C-A3267	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-17.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 31 of 89

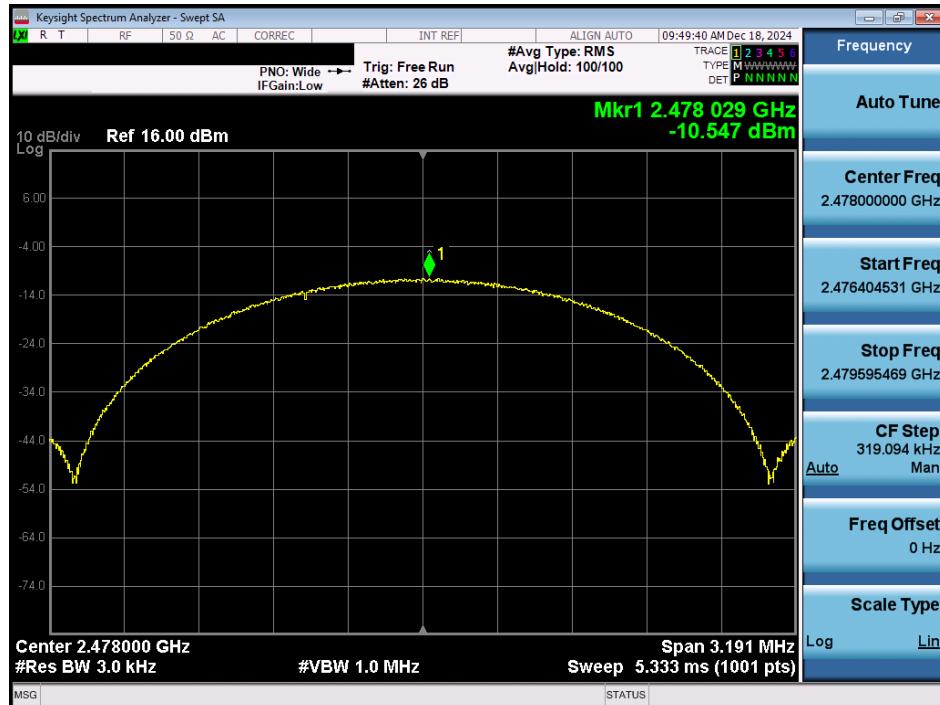


Plot 7-19. Power Spectral Density Plot Antenna 3a (Bluetooth (LE), 2Mbps, ePA – Ch. 1)

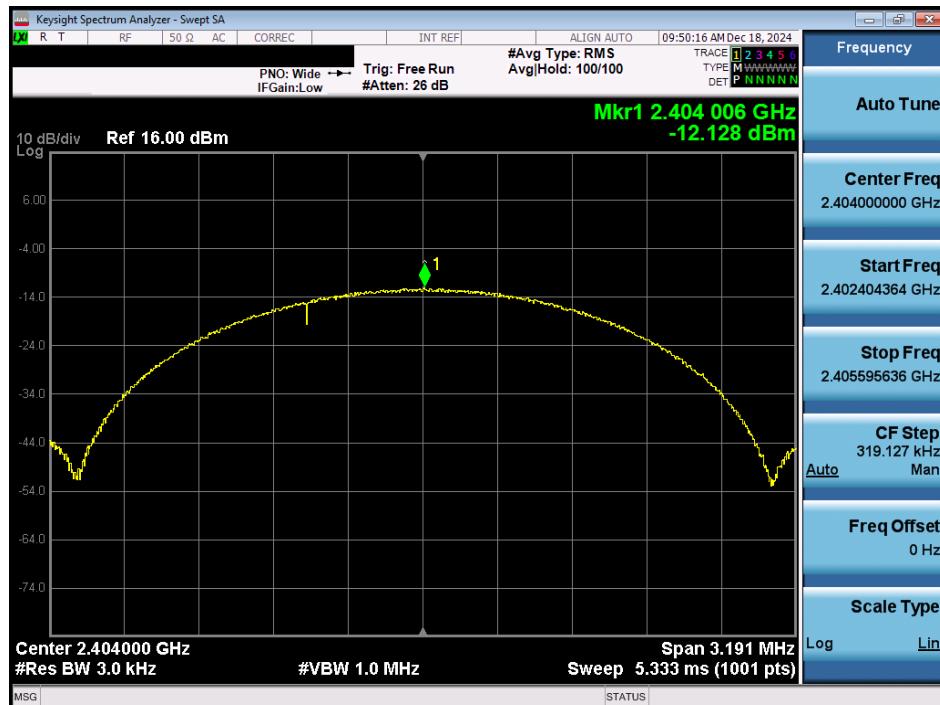


Plot 7-20. Power Spectral Density Plot Antenna 3a (Bluetooth (LE), 2Mbps, ePA – Ch. 19)

FCC ID: BCGA3267 IC: 579C-A3267	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-17.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 32 of 89

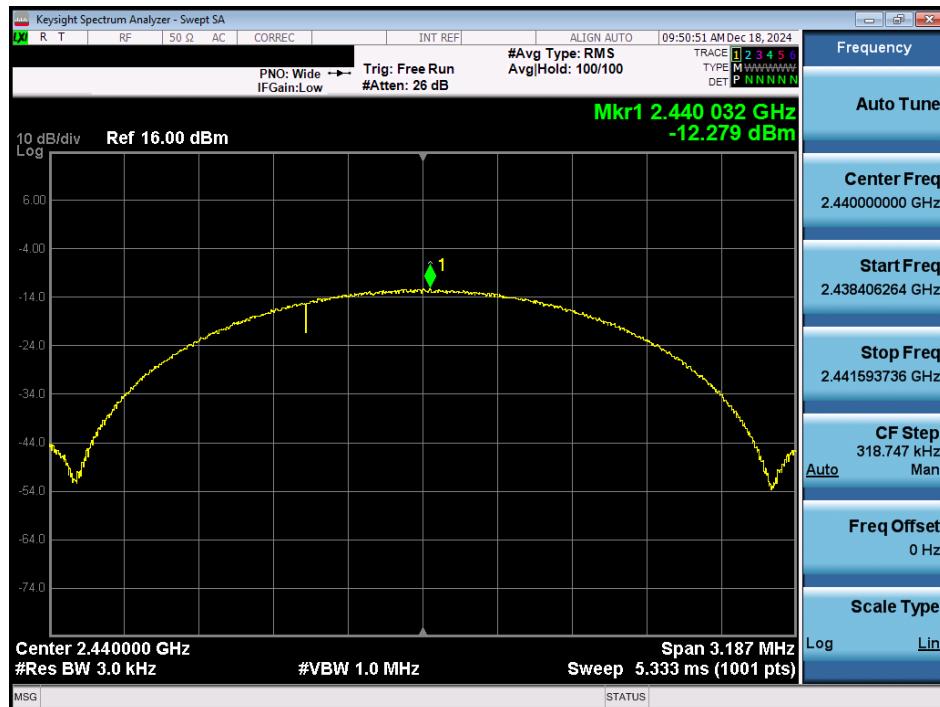


**Plot 7-21. Power Spectral Density Plot Antenna 3a (Bluetooth (LE), 2Mbps, ePA – Ch. 38)**

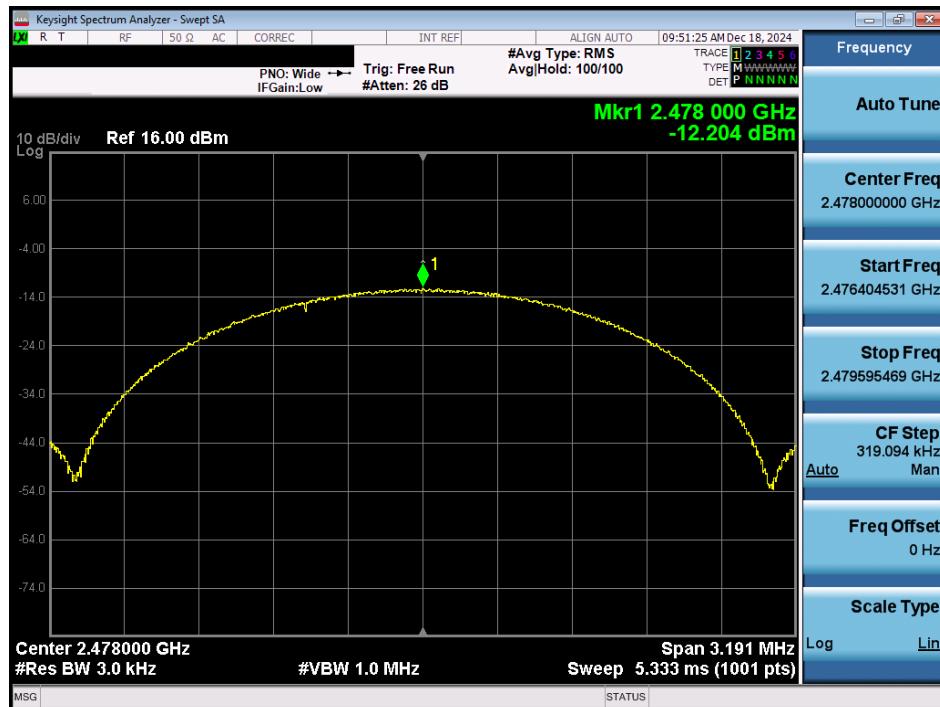


**Plot 7-22. Power Spectral Density Plot Antenna 3a (Bluetooth (LE), 2Mbps, iPA – Ch. 1)**

FCC ID: BCGA3267 IC: 579C-A3267	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-17.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 33 of 89



**Plot 7-23. Power Spectral Density Plot Antenna 3a (Bluetooth (LE), 2Mbps, iPA – Ch. 19)**



**Plot 7-24. Power Spectral Density Plot Antenna 3a (Bluetooth (LE), 2Mbps, iPA – Ch. 38)**

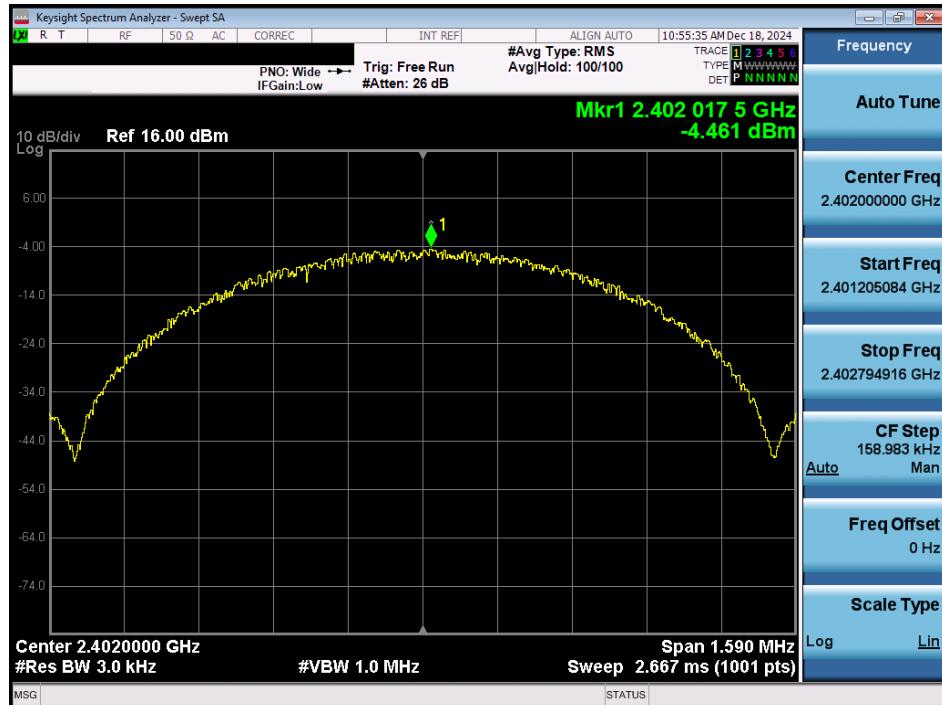
FCC ID: BCGA3267 IC: 579C-A3267	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-17.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 34 of 89

**Antenna 1a**

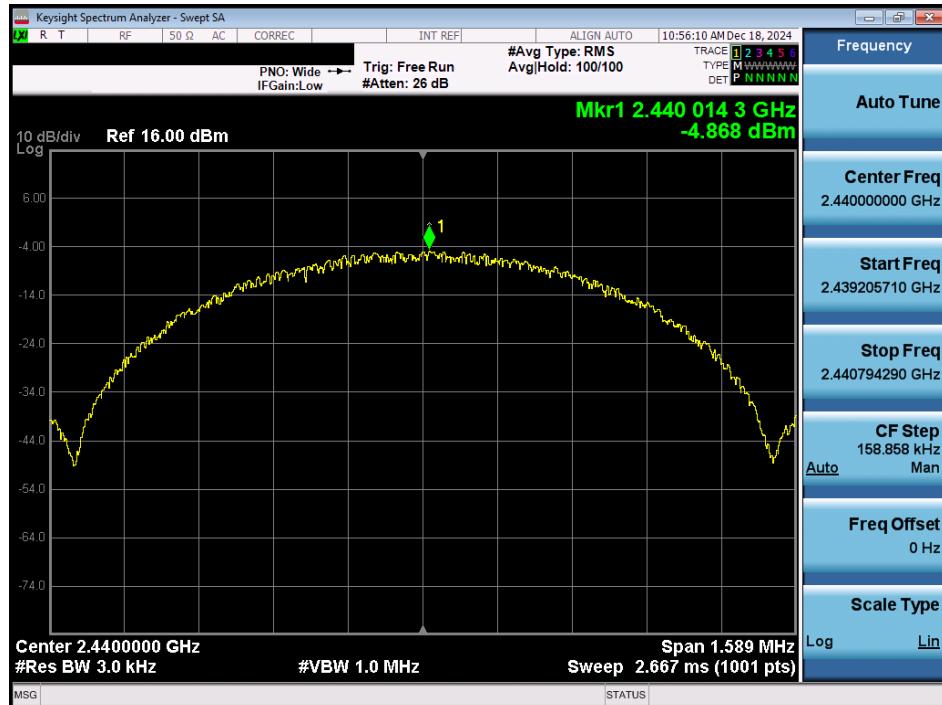
Frequency [MHz]	Data Rate [Mbps]	Power Scheme	Channel No.	Measured Power Density [dBm/3kHz]	Max Power Density [dBm/3kHz]	Margin [dB]
2402	1.0	ePA	0	-4.46	8.0	-12.46
2440	1.0	ePA	19	-4.87	8.0	-12.87
2480	1.0	ePA	39	-4.85	8.0	-12.85
2402	1.0	iPA	0	-6.81	8.0	-14.81
2440	1.0	iPA	19	-7.06	8.0	-15.06
2480	1.0	iPA	39	-6.95	8.0	-14.95
2404	2.0	ePA	1	-10.43	8.0	-18.43
2440	2.0	ePA	19	-10.46	8.0	-18.46
2478	2.0	ePA	38	-10.38	8.0	-18.38
2404	2.0	iPA	1	-12.29	8.0	-20.29
2440	2.0	iPA	19	-12.63	8.0	-20.63
2478	2.0	iPA	38	-12.37	8.0	-20.37

**Table 7-11. Conducted Power Density Measurements Antenna 1a**

FCC ID: BCGA3267 IC: 579C-A3267	 <b>element</b> <b>MEASUREMENT REPORT (CERTIFICATION)</b>			Approved by: Technical Manager
Test Report S/N: 1C2410210073-17.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 35 of 89	

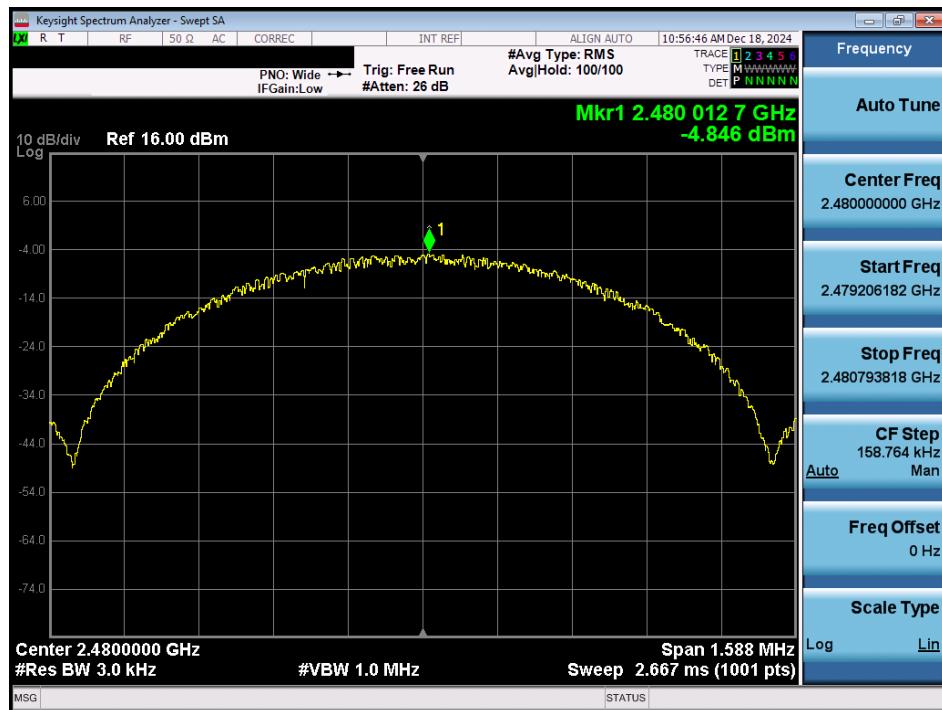


Plot 7-25. Power Spectral Density Plot Antenna 1a (Bluetooth (LE), 1Mbps, ePA – Ch. 0)



Plot 7-26. Power Spectral Density Plot Antenna 1a (Bluetooth (LE), 1Mbps, ePA – Ch. 19)

FCC ID: BCGA3267 IC: 579C-A3267	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-17.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 36 of 89

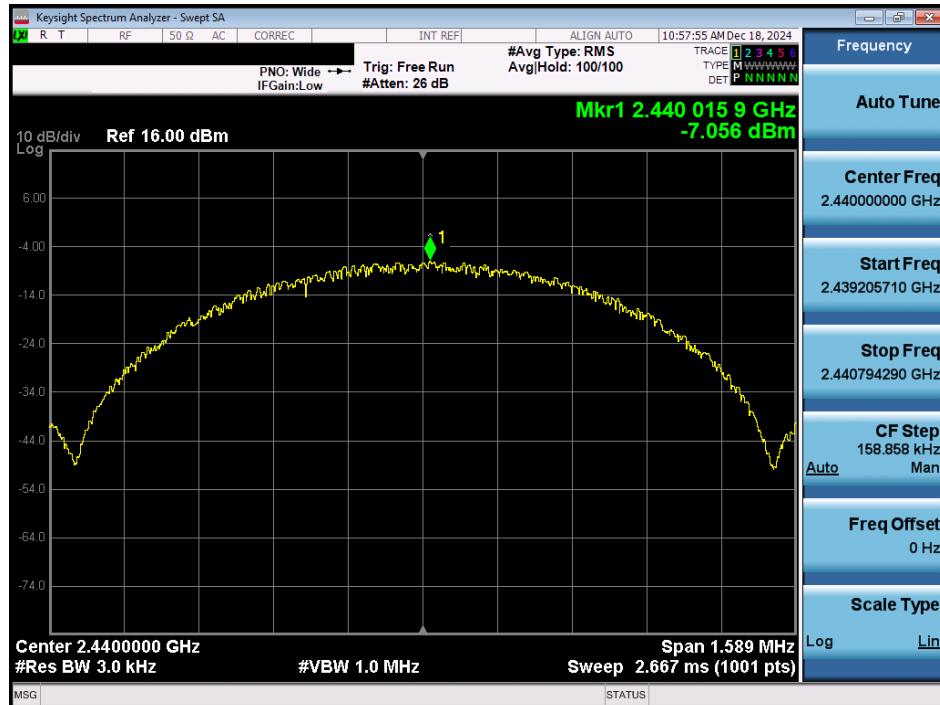


Plot 7-27. Power Spectral Density Plot Antenna 1a (Bluetooth (LE), 1Mbps, ePA – Ch. 39)

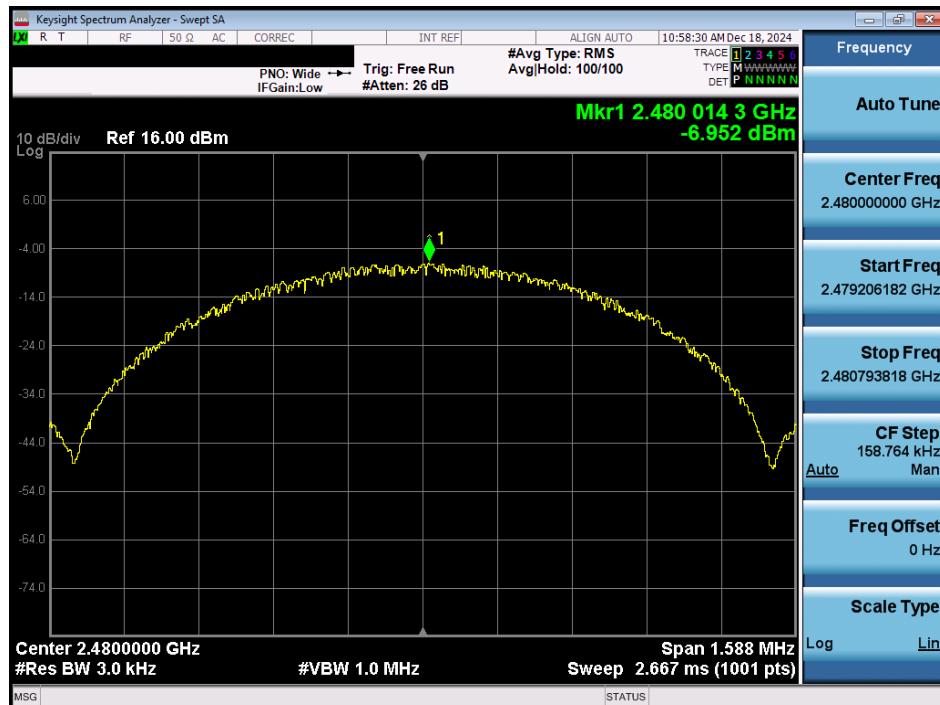


Plot 7-28. Power Spectral Density Plot Antenna 1a (Bluetooth (LE), 1Mbps, iPA – Ch. 0)

FCC ID: BCGA3267 IC: 579C-A3267	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-17.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 37 of 89

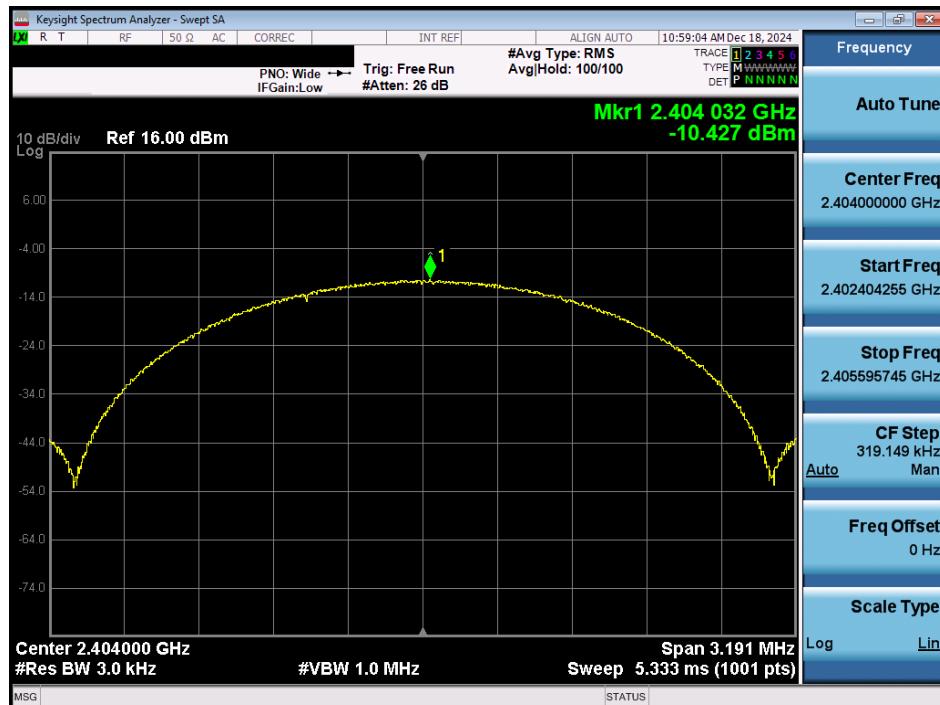


**Plot 7-29. Power Spectral Density Plot Antenna 1a (Bluetooth (LE), 1Mbps, iPA – Ch. 19)**

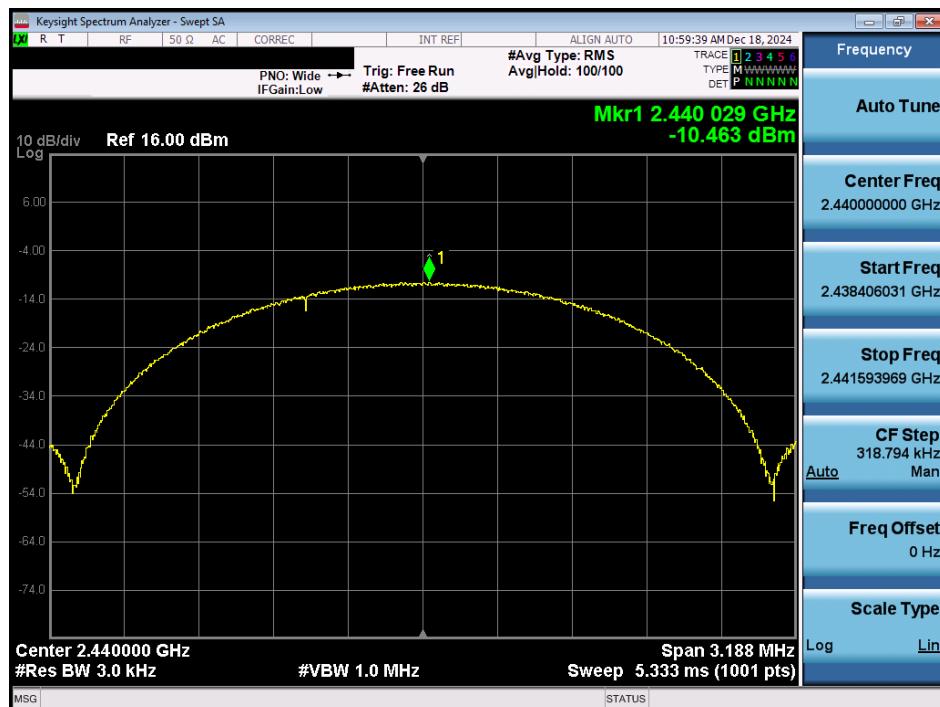


**Plot 7-30. Power Spectral Density Plot Antenna 1a (Bluetooth (LE), 1Mbps, iPA – Ch. 39)**

FCC ID: BCGA3267 IC: 579C-A3267	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-17.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 38 of 89

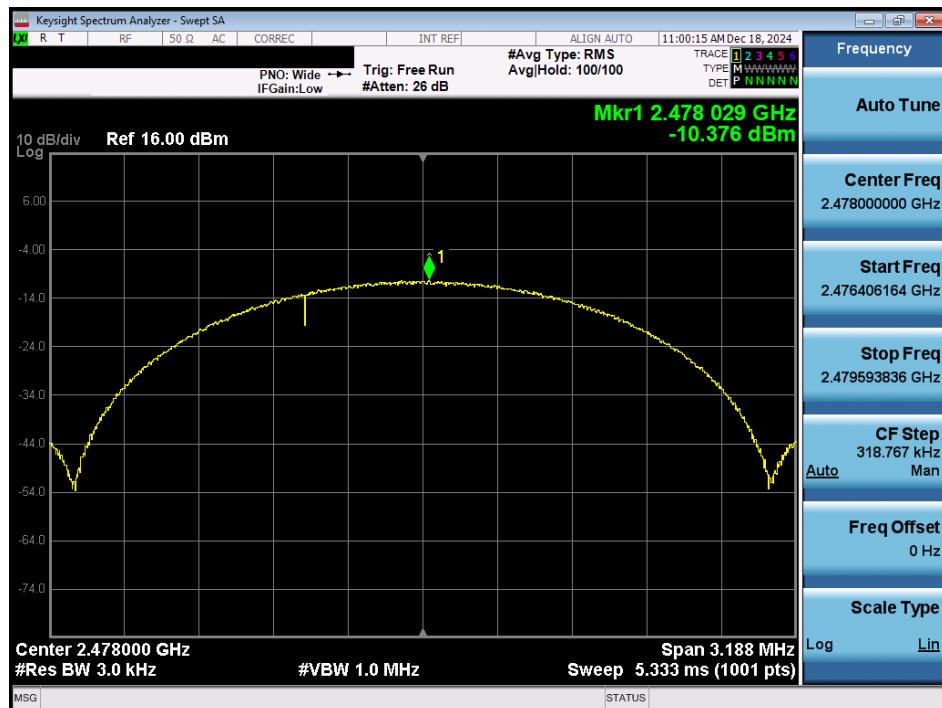


Plot 7-31. Power Spectral Density Plot Antenna 1a (Bluetooth (LE), 2Mbps, ePA – Ch. 1)

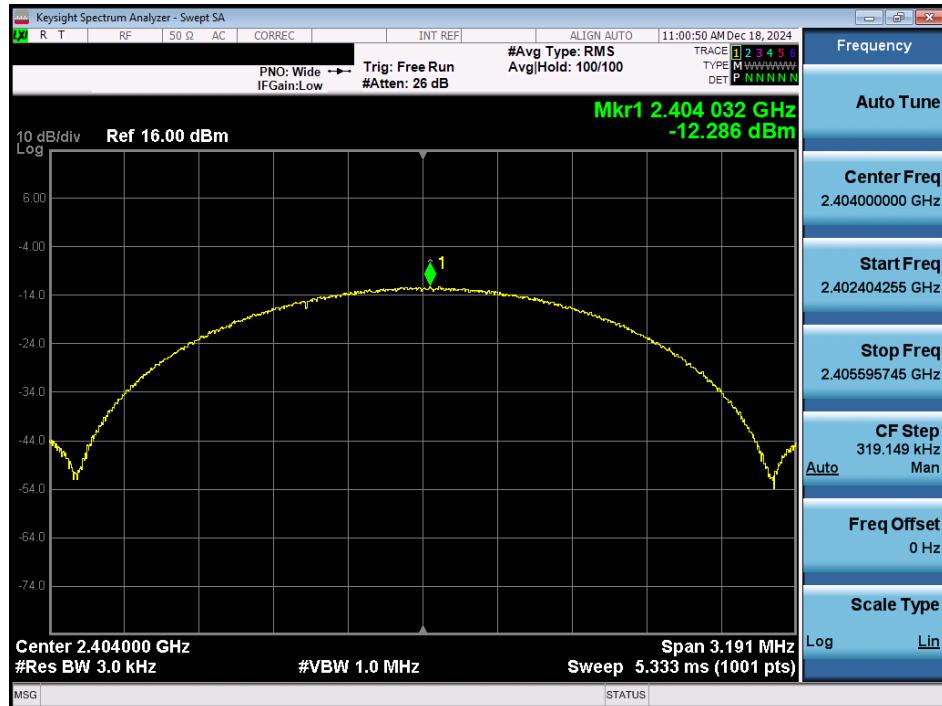


Plot 7-32. Power Spectral Density Plot Antenna 1a (Bluetooth (LE), 2Mbps, ePA – Ch. 19)

FCC ID: BCGA3267 IC: 579C-A3267	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-17.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 39 of 89



**Plot 7-33. Power Spectral Density Plot Antenna 1a (Bluetooth (LE), 2Mbps, ePA – Ch. 38)**

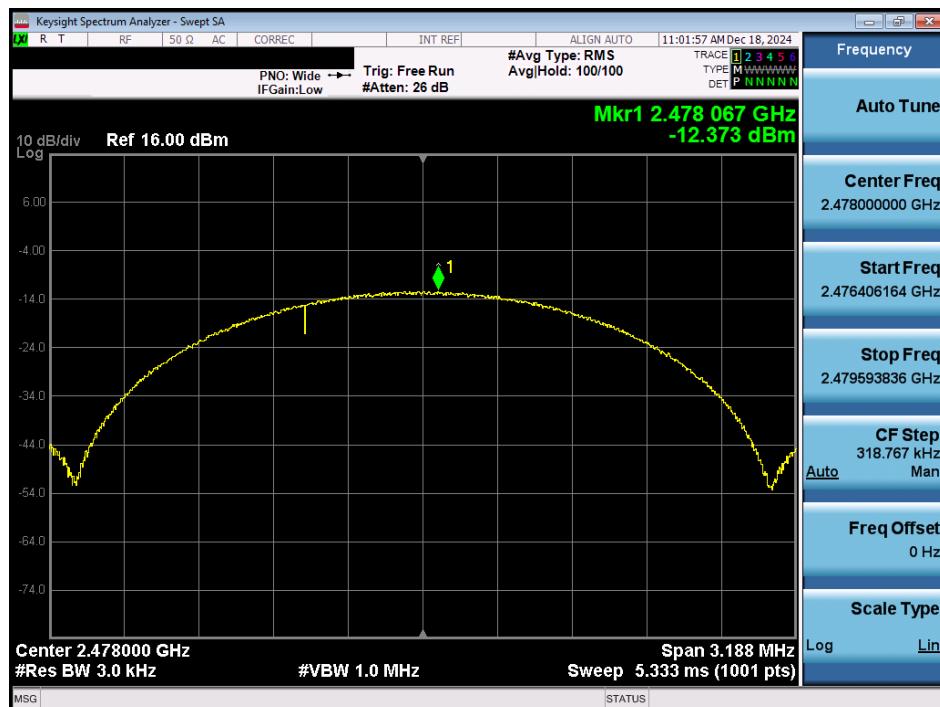


**Plot 7-34. Power Spectral Density Plot Antenna 1a (Bluetooth (LE), 2Mbps, iPA – Ch. 1)**

FCC ID: BCGA3267 IC: 579C-A3267	 <b>element</b>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-17.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 40 of 89



**Plot 7-35. Power Spectral Density Plot Antenna 1a (Bluetooth (LE), 2Mbps, iPA – Ch. 19)**



**Plot 7-36. Power Spectral Density Plot Antenna 1a (Bluetooth (LE), 2Mbps, iPA – Ch. 38)**

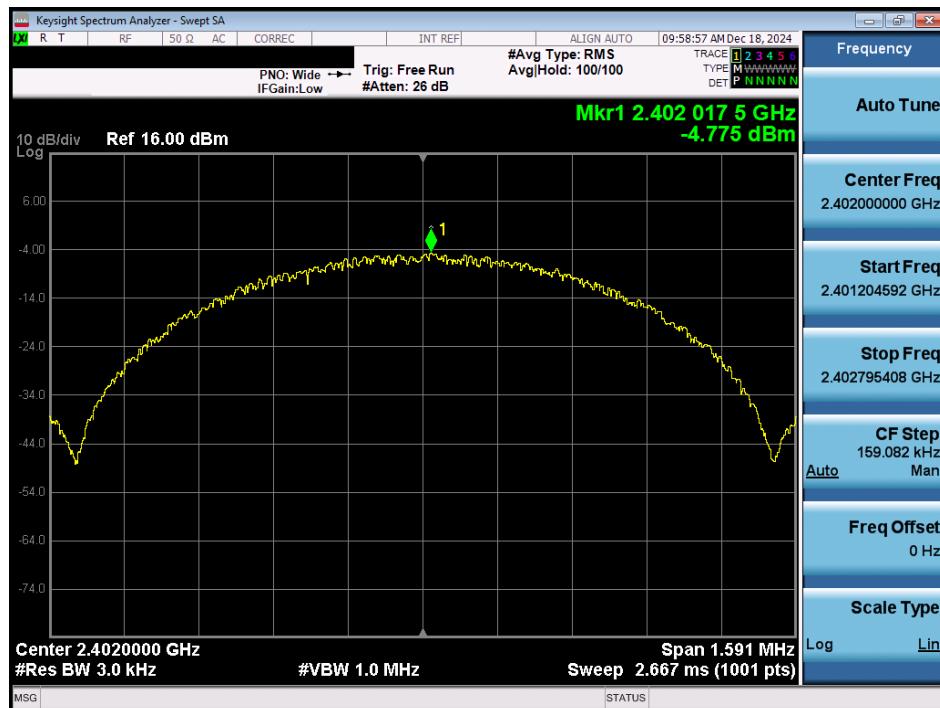
FCC ID: BCGA3267 IC: 579C-A3267		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-17.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 41 of 89

**TxBF**

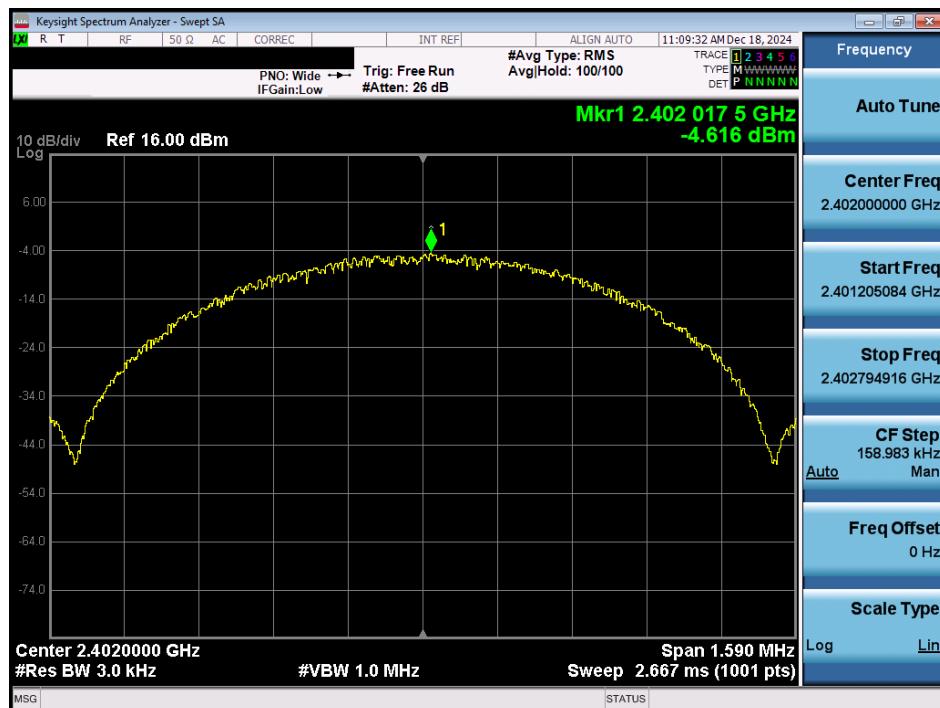
Frequency [MHz]	Data Rate [Mbps]	Power Scheme	Channel No.	Antenna 3a Power Density [dBm/3kHz]	Antenna 1a Power Density [dBm/3kHz]	Summed Power Density [dBm/3kHz]	Max Power Density [dBm/3kHz]	Margin [dB]
2402	1.0	ePA	0	-4.78	-4.62	-1.68	8.0	-9.68
2440	1.0	ePA	19	-4.69	-4.93	-1.80	8.0	-9.80
2480	1.0	ePA	39	-4.18	-4.93	-1.53	8.0	-9.53
2402	1.0	iPA	0	-6.80	-6.61	-3.69	8.0	-11.69
2440	1.0	iPA	19	-6.90	-6.58	-3.73	8.0	-11.73
2480	1.0	iPA	39	-6.84	-6.78	-3.80	8.0	-11.80
2404	2.0	ePA	1	-10.60	-10.48	-7.53	8.0	-15.53
2440	2.0	ePA	19	-10.26	-10.50	-7.37	8.0	-15.37
2478	2.0	ePA	38	-9.94	-10.46	-7.18	8.0	-15.18
2404	2.0	iPA	1	-12.08	-12.42	-9.23	8.0	-17.23
2440	2.0	iPA	19	-12.16	-12.20	-9.17	8.0	-17.17
2478	2.0	iPA	38	-12.30	-12.43	-9.35	8.0	-17.35

**Table 7-12. Conducted Power Density Measurements TxBF**

FCC ID: BCGA3267 IC: 579C-A3267	 <b>element</b> <b>MEASUREMENT REPORT (CERTIFICATION)</b>			Approved by: Technical Manager
Test Report S/N: 1C2410210073-17.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 42 of 89	

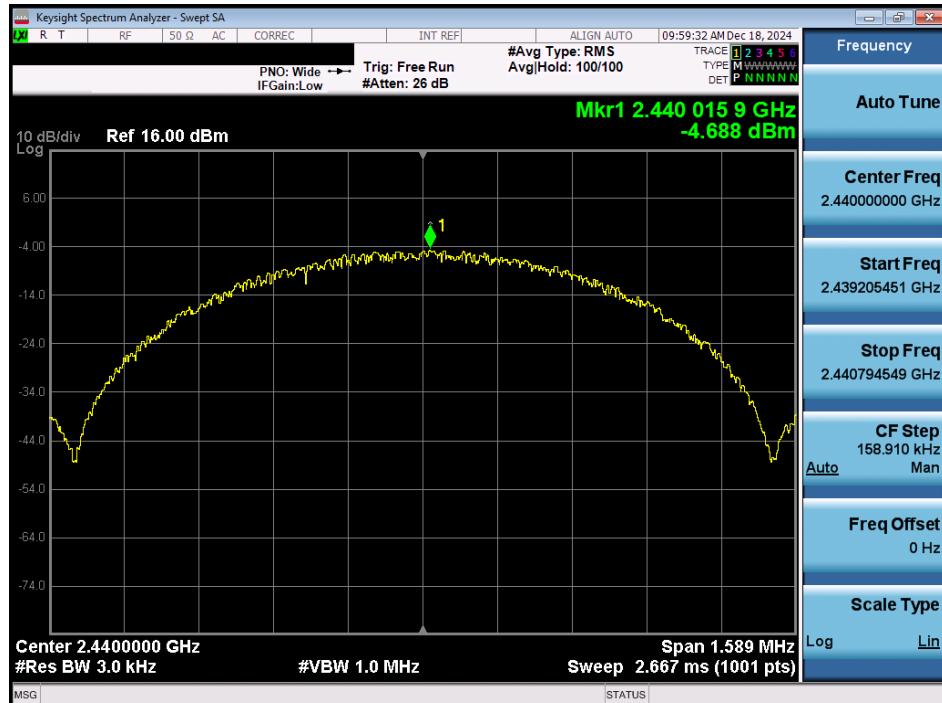


**Plot 7-37. Power Spectral Density Plot Antenna 3a (Bluetooth (LE), 1Mbps, ePA – Ch. 0)**

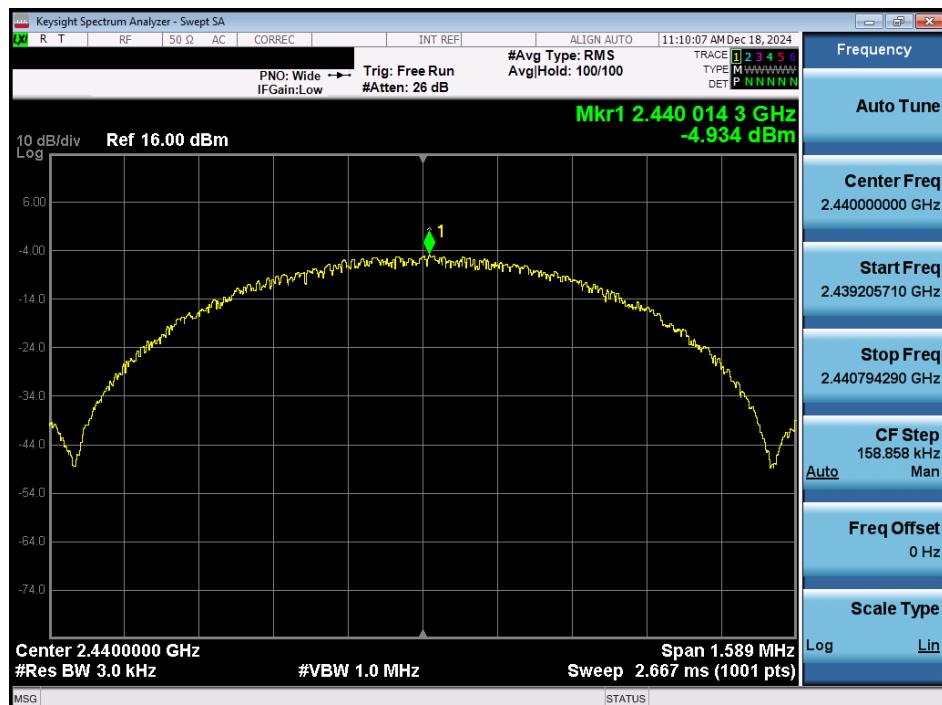


**Plot 7-38. Power Spectral Density Plot Antenna 1a (Bluetooth (LE), 1Mbps, ePA – Ch. 0)**

FCC ID: BCGA3267 IC: 579C-A3267	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-17.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 43 of 89

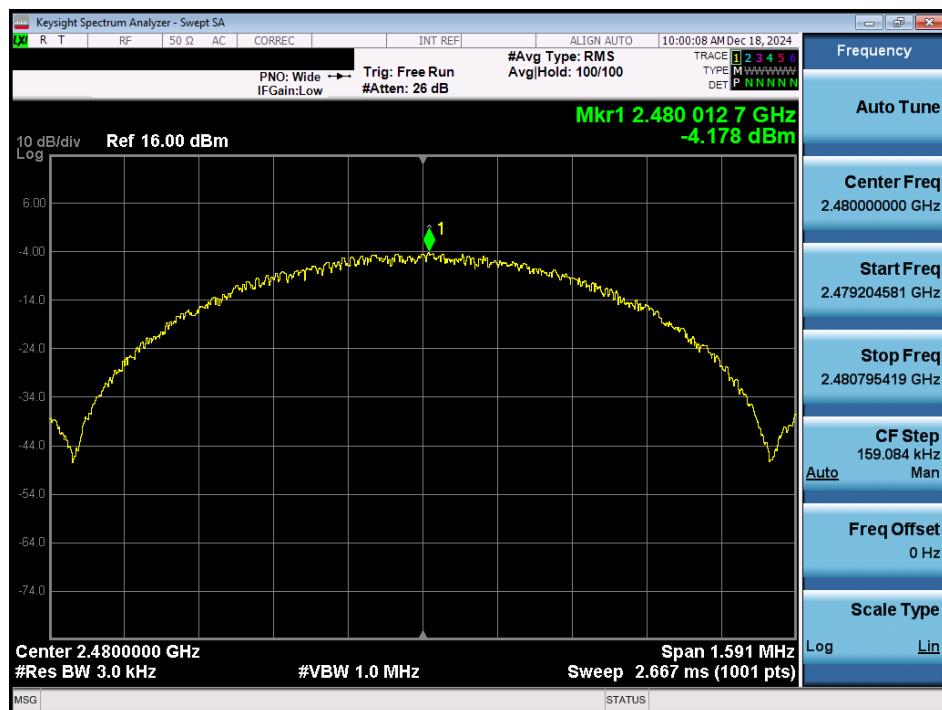


Plot 7-39. Power Spectral Density Plot Antenna 3a (Bluetooth (LE), 1Mbps, ePA – Ch. 19)

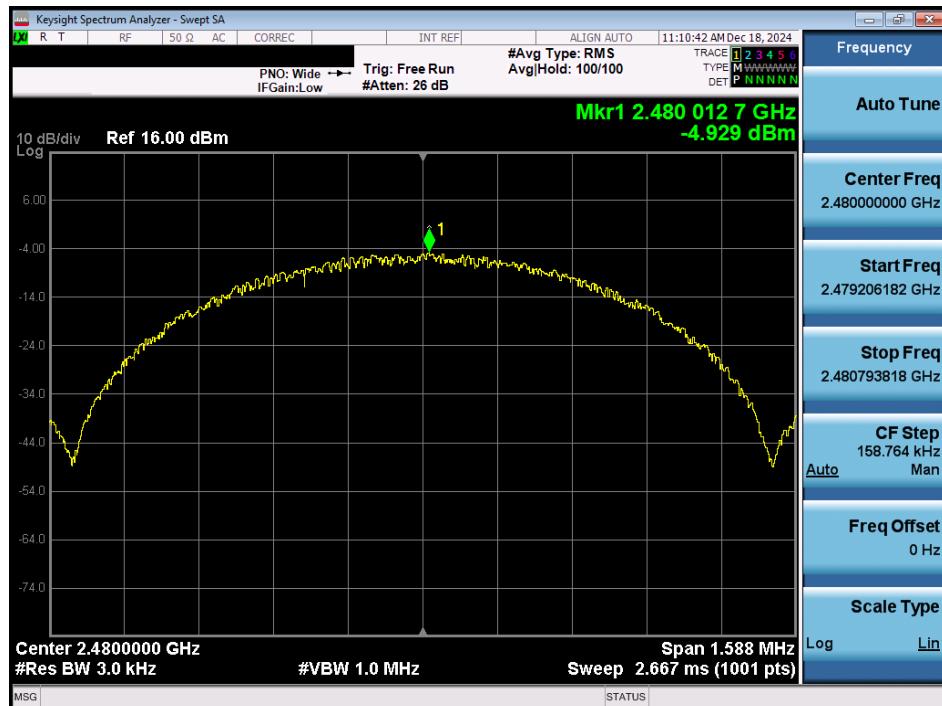


Plot 7-40. Power Spectral Density Plot Antenna 1a (Bluetooth (LE), 1Mbps, ePA – Ch. 19)

FCC ID: BCGA3267 IC: 579C-A3267	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-17.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 44 of 89

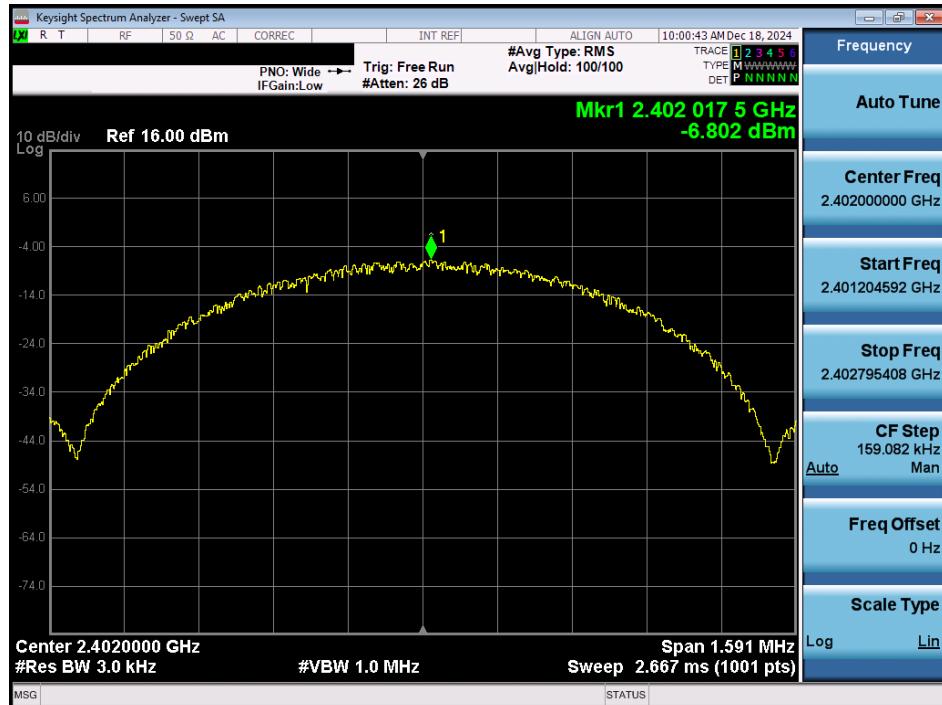


**Plot 7-41. Power Spectral Density Plot Antenna 3a (Bluetooth (LE), 1Mbps, ePA – Ch. 39)**

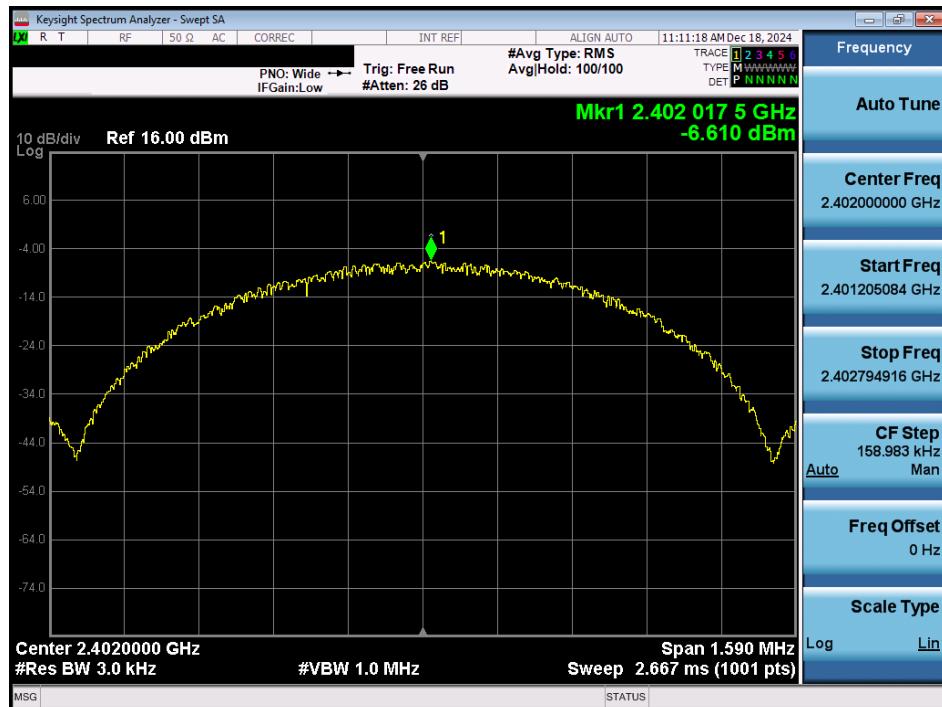


**Plot 7-42. Power Spectral Density Plot Antenna 1a (Bluetooth (LE), 1Mbps, ePA – Ch. 39)**

FCC ID: BCGA3267 IC: 579C-A3267	 <b>element</b>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-17.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 45 of 89



Plot 7-43. Power Spectral Density Plot Antenna 3a (Bluetooth (LE), 1Mbps, iPA – Ch. 0)



Plot 7-44. Power Spectral Density Plot Antenna 1a (Bluetooth (LE), 1Mbps, iPA – Ch. 0)

FCC ID: BCGA3267 IC: 579C-A3267	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-17.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 46 of 89

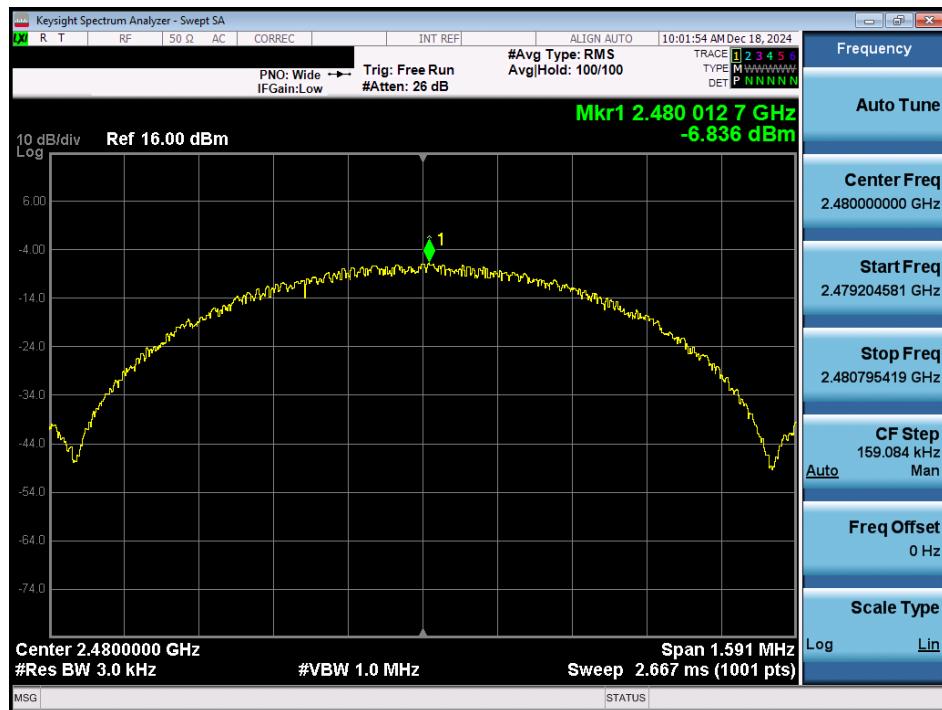


**Plot 7-45. Power Spectral Density Plot Antenna 3a (Bluetooth (LE), 1Mbps, iPA – Ch. 19)**

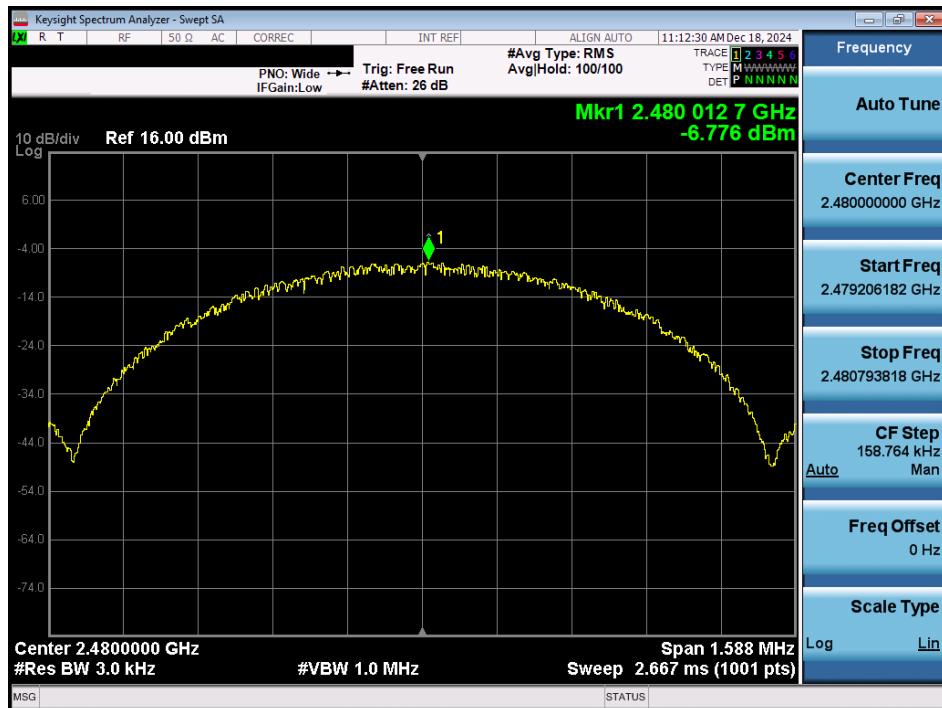


**Plot 7-46. Power Spectral Density Plot Antenna 1a (Bluetooth (LE), 1Mbps, iPA – Ch. 19)**

FCC ID: BCGA3267 IC: 579C-A3267	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-17.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 47 of 89

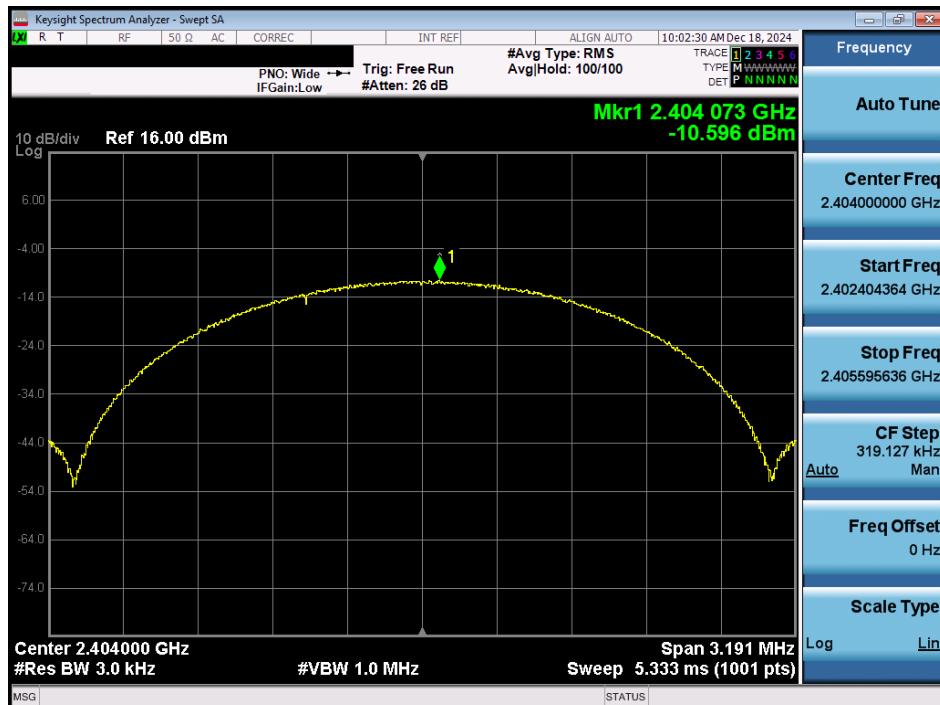


**Plot 7-47. Power Spectral Density Plot Antenna 3a (Bluetooth (LE), 1Mbps, iPA – Ch. 39)**

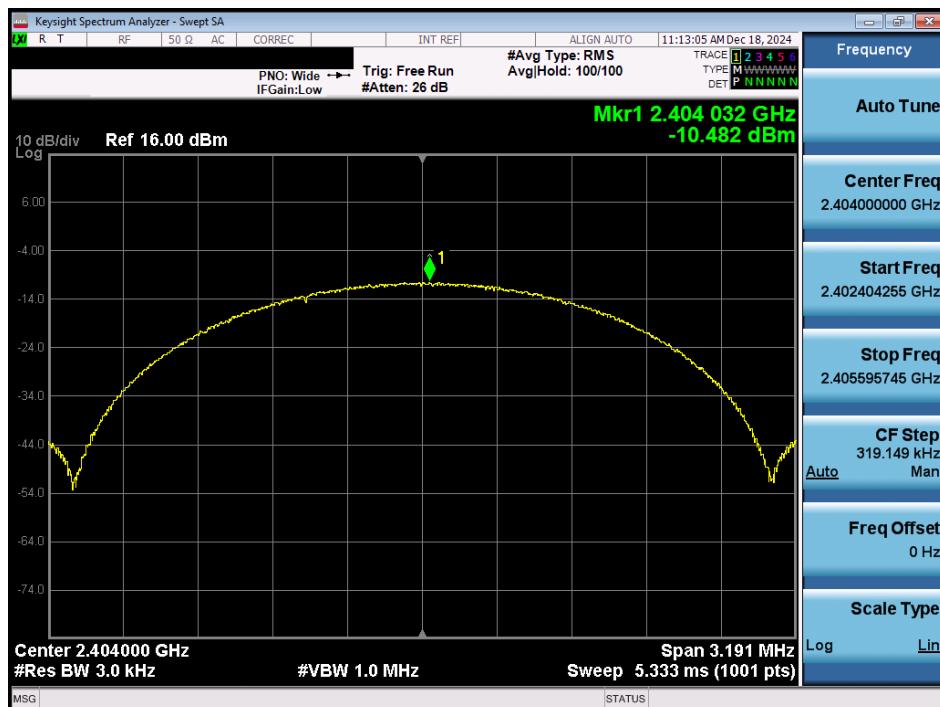


**Plot 7-48. Power Spectral Density Plot Antenna 1a (Bluetooth (LE), 1Mbps, iPA – Ch. 39)**

FCC ID: BCGA3267 IC: 579C-A3267	 <b>element</b>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-17.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 48 of 89



**Plot 7-49. Power Spectral Density Plot Antenna 3a (Bluetooth (LE), 2Mbps, ePA – Ch. 1)**

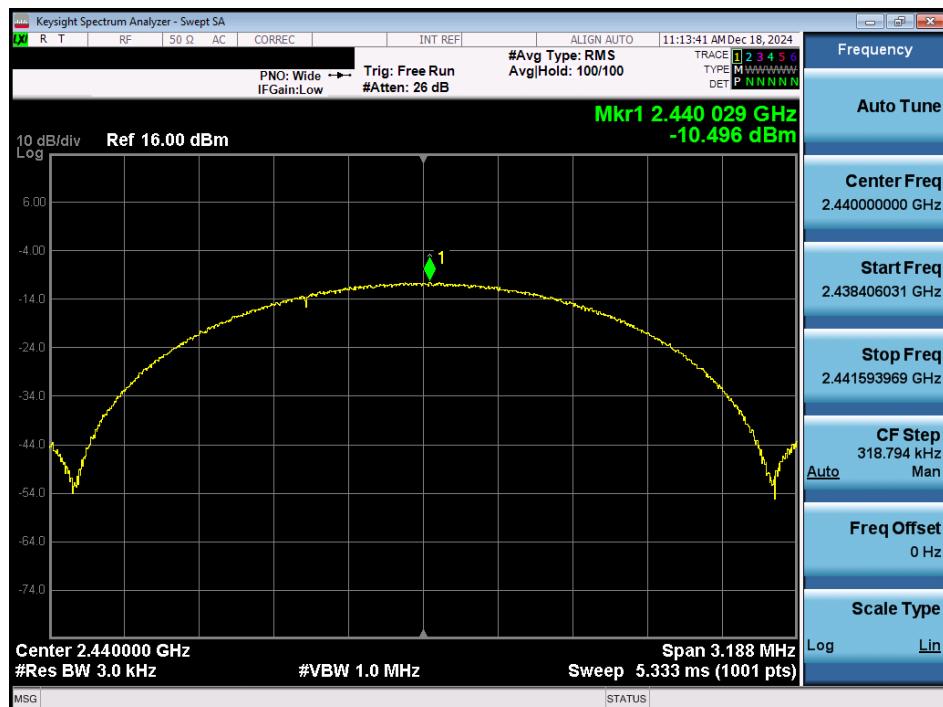


**Plot 7-50. Power Spectral Density Plot Antenna 1a (Bluetooth (LE), 2Mbps, ePA – Ch. 1)**

FCC ID: BCGA3267 IC: 579C-A3267	 <b>element</b>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-17.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 49 of 89



Plot 7-51. Power Spectral Density Plot Antenna 3a (Bluetooth (LE), 2Mbps, ePA – Ch. 19)

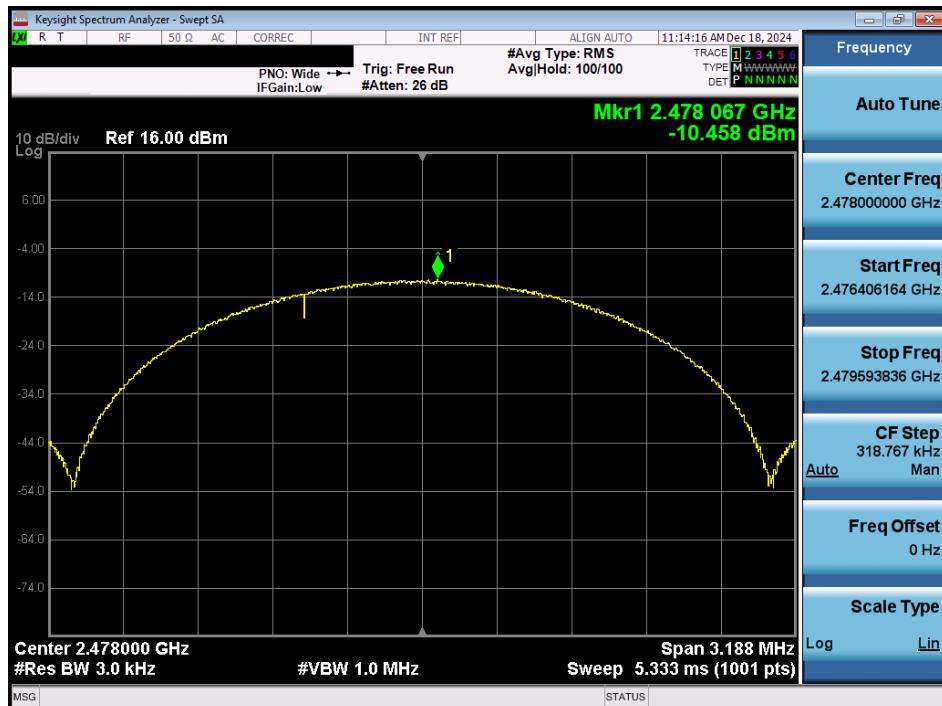


Plot 7-52. Power Spectral Density Plot Antenna 1a (Bluetooth (LE), 2Mbps, ePA – Ch. 19)

FCC ID: BCGA3267 IC: 579C-A3267	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-17.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 50 of 89

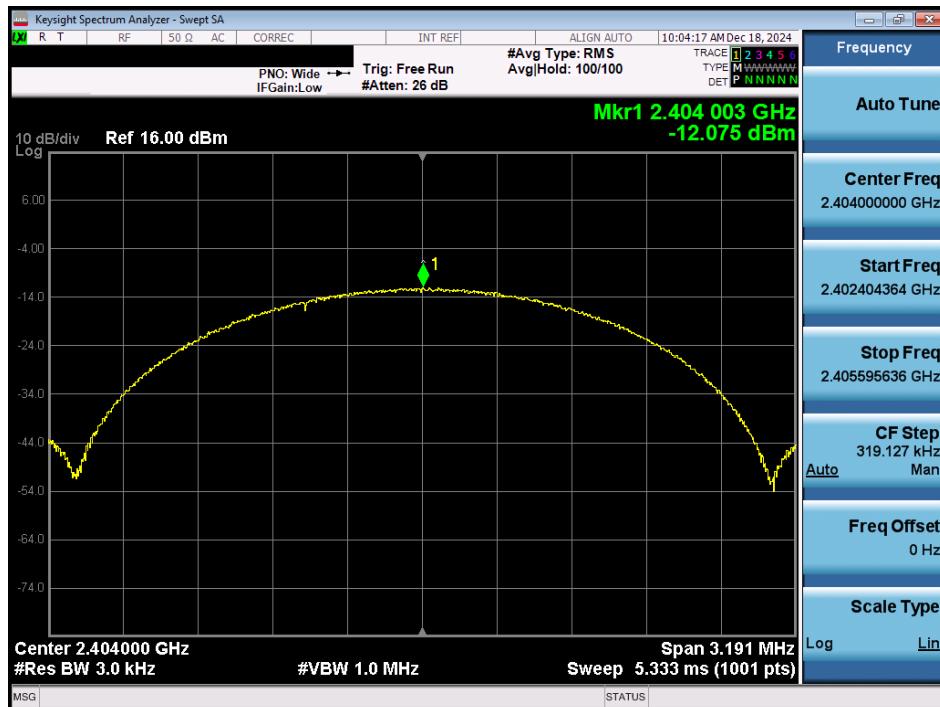


Plot 7-53. Power Spectral Density Plot Antenna 3a (Bluetooth (LE), 2Mbps, ePA – Ch. 38)

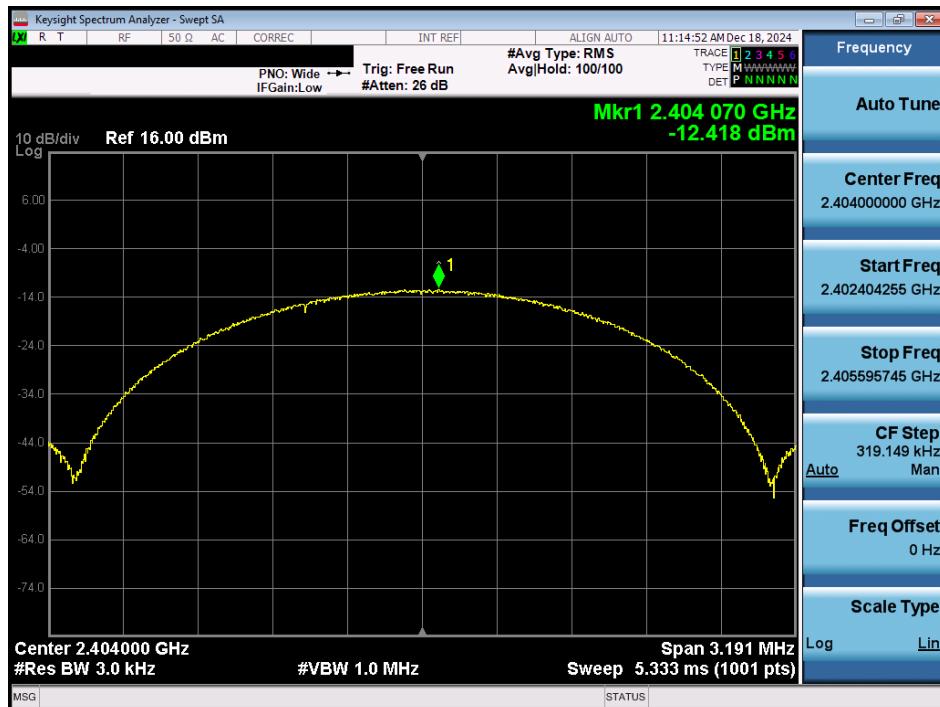


Plot 7-54. Power Spectral Density Plot Antenna 1a (Bluetooth (LE), 2Mbps, ePA – Ch. 38)

FCC ID: BCGA3267 IC: 579C-A3267	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-17.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 51 of 89



**Plot 7-55. Power Spectral Density Plot Antenna 3a (Bluetooth (LE), 2Mbps, iPA – Ch. 1)**



**Plot 7-56. Power Spectral Density Plot Antenna 1a (Bluetooth (LE), 2Mbps, iPA – Ch. 1)**

FCC ID: BCGA3267 IC: 579C-A3267	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-17.BCG	Test Dates: 10/25/2024 - 1/2/2025	EUT Type: Tablet Device	Page 52 of 89