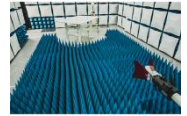




ELEMENT MATERIALS TECHNOLOGY

(formerly PCTEST)
18855 Adams Court, Morgan Hill, CA 95037 USA
Tel. 408.538.5600
<http://www.element.com>



MEASUREMENT REPORT

FCC PART 15.247 / ISCED RSS-247 Bluetooth (Low Energy)

Applicant Name:

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

Date of Testing:

09/15/2025 - 12/20/2025

Test Report Issue Date:

1/15/2026

Test Site/Location:

Element Materials Technolgy, Morgan Hill, CA, USA

Test Report Serial No.:

1C2509100082-17-R3.BCG

FCC ID:

BCGA3462

IC:

579C-A3462

APPLICANT:

Apple Inc.

Application Type:

Certification

Model/HVIN:

A3462, A3464

EUT Type:

Tablet Device

Max. RF Output Power:

217.270 mW (23.37 dBm) Peak Conducted

Frequency Range:

2402 – 2480MHz

FCC Classification:

Digital Transmission System (DTS)

FCC Rule Part(s):

Part 15 Subpart C (15.247)

ISED Specification:

RSS-247 Issue 4

Test Procedure(s):

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to
C63.10a:2024, KDB 558074 D01 v05r02

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 and KDB 558074 D01 v05r02. Test results reported herein relate only to the item(s) tested.

This revised Test Report (S/N: 1C2509100082-17-R3.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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Revision Summary

Revision	Date	Comments	Revised By
-	12/18/2025	Initial Release	WKR017014
R1	12/30/2025	Addressed Client's Comment Regarding IC ID	WKR017014
R2	01/09/2026	Addressed TCB Comments in section 2.2, 7.3, 7.5, 7.8	WKR007359
R3	01/12/2026	Addressed TCB Comments in section 2.2, 7.4	WKR007359

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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: BCGA3462 and IC: 579C-A3462**. 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.: FV04QCJQRL, NTKY331564, DLXHKL0003C00013Z2, DLXHKL0002U00013Z2, D09M694XGP

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.

BLE-150k		BLE-500k		BLE-1M		BLE-2M	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
00	2402	00	2402	00	2402	01	2404
:	:	:	:	:	:	:	:
19	2440	19	2440	19	2440	19	2440
:	:	:	:	:	:	:	:
39	2480	39	2480	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.

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The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = peak per the guidance of Section 6.0 b) of KDB 558074 D01 v05r02 and ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024. 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:

BLE Mode		Antenna 3a		Antenna 1a		TxBF	
		Duty Cycle [%]	DCCF [dB]	Duty Cycle [%]	DCCF [dB]	Duty Cycle [%]	DCCF [dB]
125k	ePA	97.105	0.128	96.882	0.138	96.667	0.147
	iPA	97.105	0.128	96.882	0.138	96.667	0.147
500k	ePA	90.484	0.434	90.328	0.442	90.487	0.434
	iPA	90.484	0.434	90.328	0.442	90.487	0.434
1M	ePA	84.842	0.714	84.842	0.714	84.81	0.716
	iPA	84.842	0.714	84.842	0.714	84.81	0.716
2M	ePA	56.874	2.451	57.022	2.44	56.742	2.461
	iPA	56.874	2.451	57.022	2.44	56.742	2.461

Table 2-2. Measured Duty Cycles

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 1a	Config 1	✗	✗	✓	✗	✗	✗	✗	✗	✓
Ant 1a	Config 2	✓	✗	✗	✗	✗	✗	✗	✗	✓
Ant 1a	Config 3	✗	✓	✗	✗	✗	✗	✗	✗	✓
Ant 1b	Config 4	✗	✗	✗	✗	✓	✗	✗	✓	✗
Ant 1b	Config 5	✗	✗	✗	✗	✗	✓	✗	✓	✗
Ant 1b	Config 6	✗	✗	✗	✓	✗	✗	✗	✓	✗
Ant 3a	Config 7	✗	✗	✓	✗	✗	✗	✗	✗	✓
Ant 3a	Config 8	✓	✗	✗	✗	✗	✗	✗	✗	✓
Ant 3a	Config 9	✗	✓	✗	✗	✗	✗	✗	✗	✓
Ant 3b	Config 10	✗	✗	✗	✗	✓	✗	✗	✓	✗
Ant 3b	Config 11	✗	✗	✗	✗	✗	✓	✗	✓	✗
Ant 3b	Config 12	✗	✗	✗	✓	✗	✗	✗	✓	✗

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 8 and reported in RF Bluetooth, RF FCC Part 96, and RSS-192 test reports.

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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	2.5	0.7

Table 2-4. 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 2-5. Test Support Equipment List

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2.5 Test Configuration

The EUT was tested per the guidance of ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 and KDB 558074 D01 v05r02. ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 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, 7.6 and 7.7 for antenna port conducted emissions test setups.

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

For emissions from 1GHz – 18GHz, low, mid, and high channels were tested with highest power and worst case configuration. The emissions below 1GHz and above 18GHz were tested with the highest transmitting power and the worst case channel were reported.

The EUT was manipulated through three orthogonal planes of X-orientation (flatbed), Y-orientation (landscape), and Z-orientation (portrait) during the testing. Only the worst case emissions were reported in this test report.

For AC line conducted and radiated test below 1GHz, following configuration were investigated and the worst case was reported.

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

2.6 Software and Firmware

The test was conducted with firmware version 23D40 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 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024) 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 0. 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	2.00
Line Conducted Disturbance	1.88
Radiated Disturbance (<30MHz)	4.24
Radiated Disturbance (30MHz - 1GHz)	4.96
Radiated Disturbance (1 - 18GHz)	5.18
Radiated Disturbance (>18GHz)	5.18

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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
Agilent	N9020A	MXA Signal Analyzer	7/7/2025	Biennial	7/7/2027	MY56470202
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 Horn (1-18 GHz)	4/16/2025	Annual	4/16/2026	218555
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	6/9/2025	Annual	6/9/2026	MY57212015
Rohde & Schwarz	TS-PR18	Pre-Amplifier (1GHz - 18GHz)	8/6/2025	Annual	8/6/2026	101639
Rohde & Schwarz	FSW43	Spectrum Analyzer 2Hz to 43GHz	8/5/2025	Annual	8/5/2026	104093
Rohde & Schwarz	ESW44	EMI Test Receiver 2Hz to 44 GHz	5/13/2025	Annual	5/13/2026	101867
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz - 8GHz)	11/15/2024	Annual	11/15/2025	102326
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz - 8GHz)	10/14/2025	Annual	10/14/2026	102328
Rohde & Schwarz	TS-PR1840	Pre-Amplifier (18GHz - 40GHz)	6/3/2025	Annual	6/3/2026	100052
Rohde & Schwarz	HFH2-Z2	Loop Antenna	5/12/2025	Annual	5/12/2026	100546
Rohde & Schwarz	ENV216	Two-Line V-Network	4/24/2025	Annual	4/24/2026	101364
Schwarzbeck	VULB 9162	Bilog Antenna (30MHz - 6GHz)	7/17/2025	Annual	7/17/2026	00302

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 TEST RESULTS

7.1 Summary

Company Name: Apple Inc.
 FCC ID: BCGA3462
 IC: 579C-A3462
 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 [6.3.1(a)]	6dB Bandwidth	> 500kHz	CONDUCTED	PASS	Section 7.3
2.1049	RSS-Gen [6.7]	Occupied Bandwidth	N/A		N/A	Section 7.2
15.247(b)(3)	RSS-247 [6.3.2]	Transmitter Output Power	< 1 Watt		PASS	Section 7.4
15.247(e)	RSS-247 [6.3.1(b)]	Transmitter Power Spectral Density	< 8dBm / 3kHz Band		PASS	Section 7.5
15.247(d)	RSS-247 [6.6]	Band Edge / Out-of-Band Emissions	≥ 20dBc		PASS	Section 7.6, 7.7
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 7.8, 7.9
15.207	RSS-Gen [8.8]	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.207 limits (RSS-Gen [8.8])	LINE CONDUCTED	PASS	Section 7.10

Table 7-1. Summary of Test Results

Notes:

- All modes of operation were investigated. The test results shown in the following sections represent the worst case emissions.
- The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.
- For conducted spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element "Conducted Automation," Version 1.5.0.
- For radiated testing, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element "Chamber Automation," Version 3.6.1.

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7.2 99% Occupied Bandwidth

§2.1049; RSS-Gen [6.7]

Test Overview and Limit

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

Test Procedure Used

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – 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. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. Span = between 1.5x to 5x the OBW
3. RBW = in the range of 1- 5% of the OBW
4. VBW $\geq 3 \times$ RBW
5. Detector = Peak
6. Trace mode = max hold
7. Sweep = auto couple
8. The trace was allowed to stabilize
9. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7

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Test Setup

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

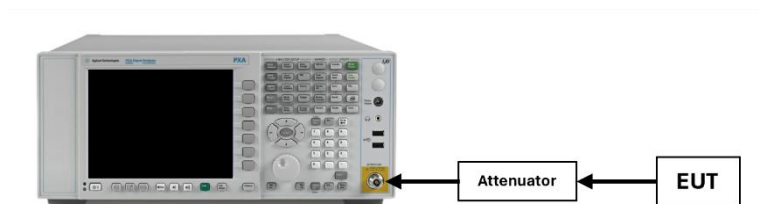


Figure 7-1. Test Instrument & Measurement Setup

Test Notes

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

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7.2.1 Antenna 3a

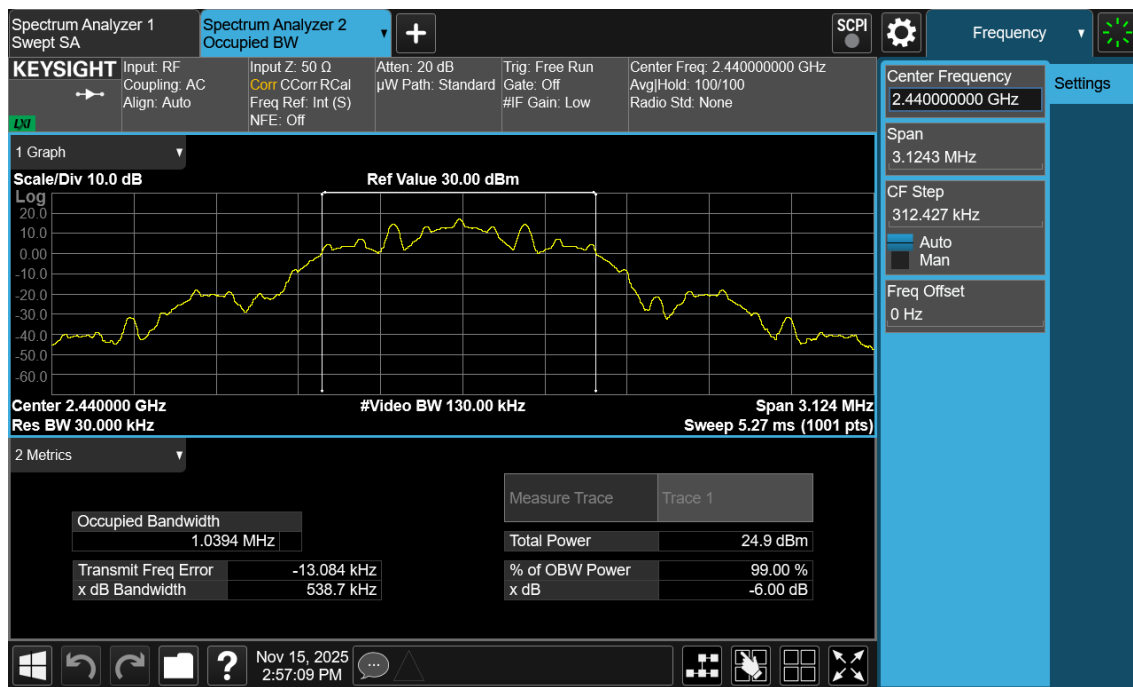
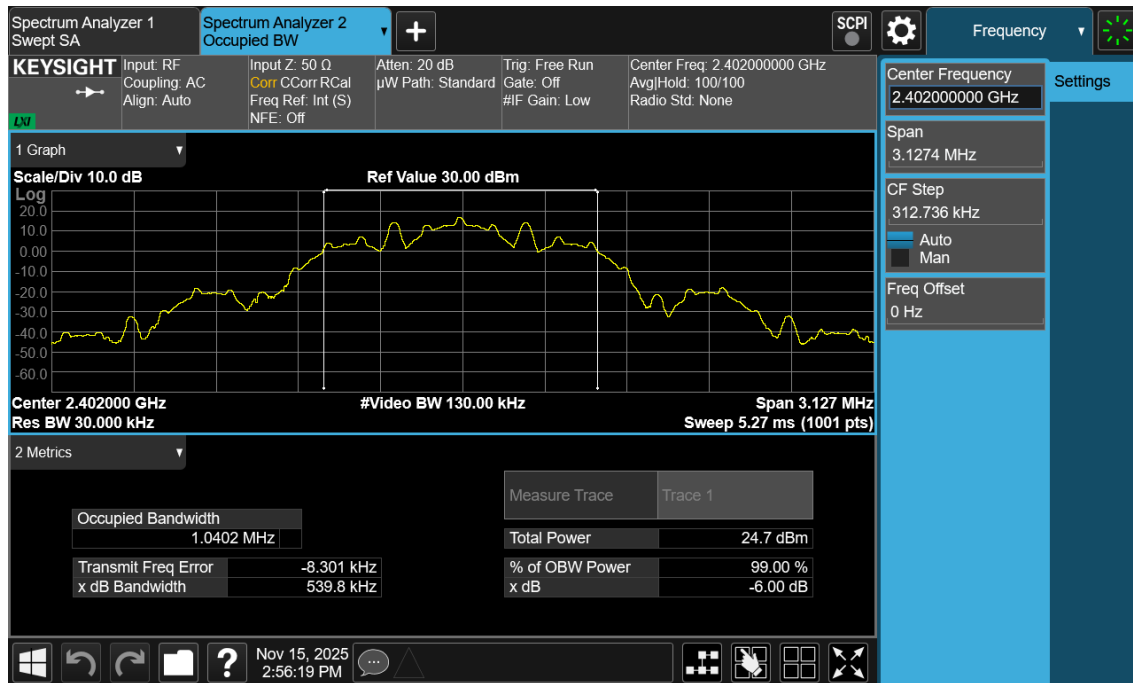
Frequency [MHz]	Data Rate [Mbps]	Power Scheme	Channel	Measured 99% Occupied Bandwidth [MHz]
2402	0.125	ePA	0	1.040
2440	0.125	ePA	19	1.039
2480	0.125	ePA	39	1.040
2402	0.500	ePA	0	1.017
2440	0.500	ePA	19	1.018
2480	0.500	ePA	39	1.017
2402	1.0	ePA	0	1.015
2440	1.0	ePA	19	1.016
2480	1.0	ePA	39	1.014
2404	2.0	ePA	1	2.038
2440	2.0	ePA	19	2.037
2478	2.0	ePA	38	2.039

Table 7-2. 99% OBW Measurements Antenna 3a

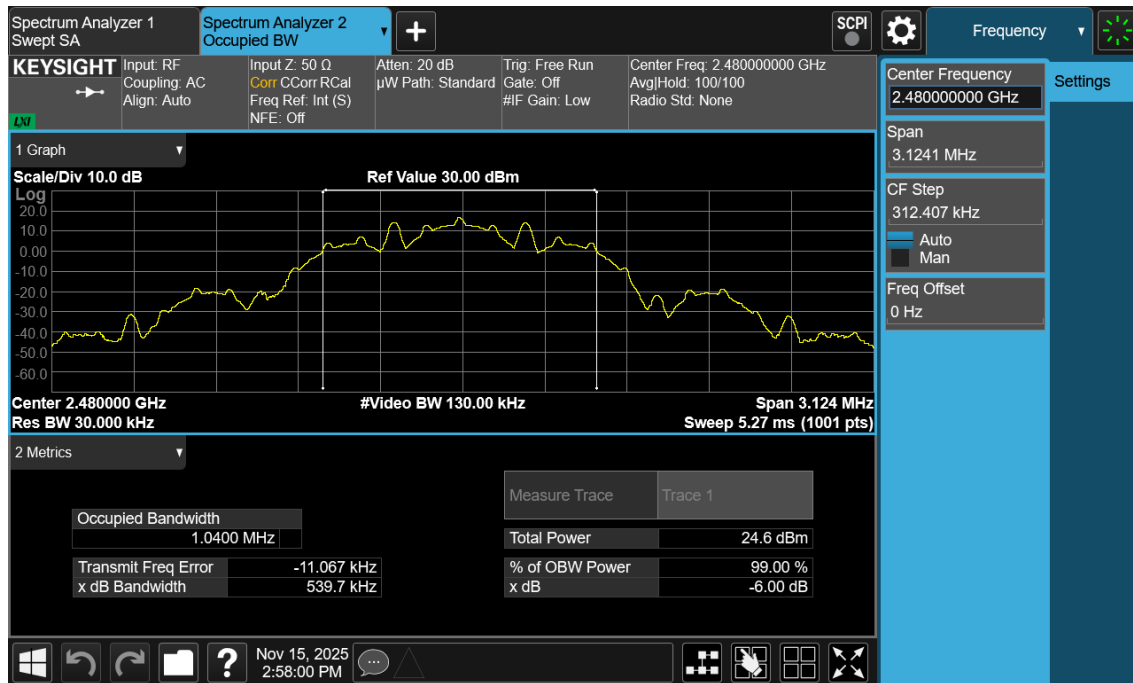
FCC ID: BCGA3462 IC: 579C-A3462		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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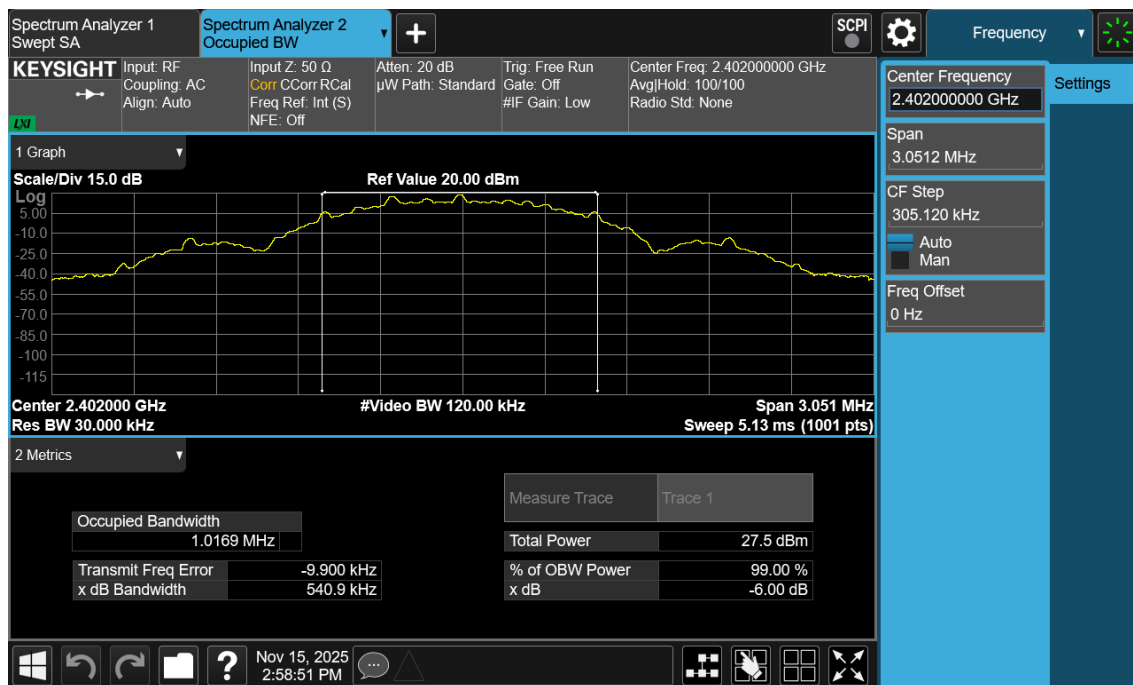
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Plot 7-3. 99% OBW Plot Antenna 3a (Bluetooth (LE), 125kbps, ePA – Ch. 39)

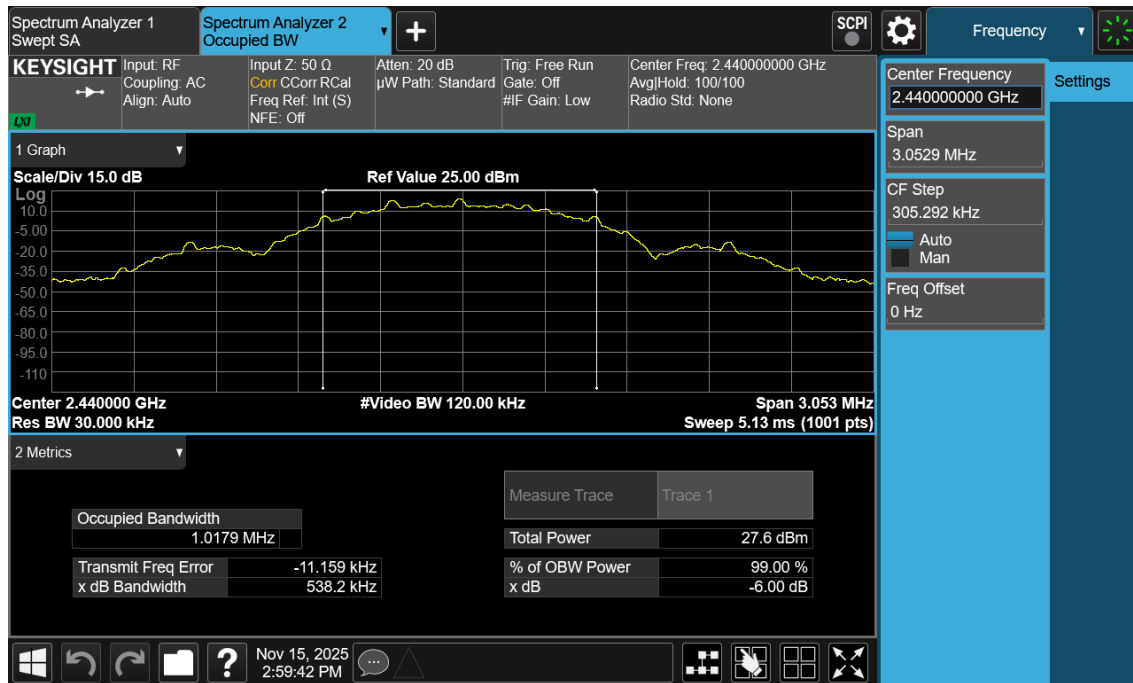


Plot 7-4. 99% OBW Plot Antenna 3a (Bluetooth (LE), 500kbps, ePA – Ch. 0)

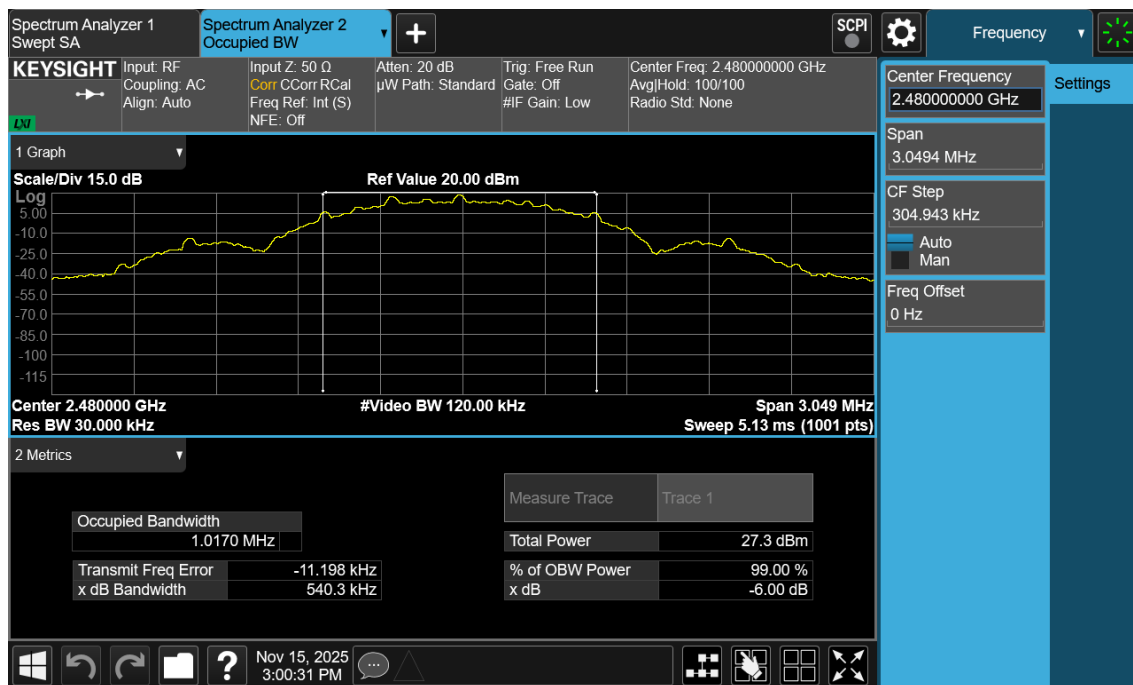
FCC ID: BCGA3462 IC: 579C-A3462		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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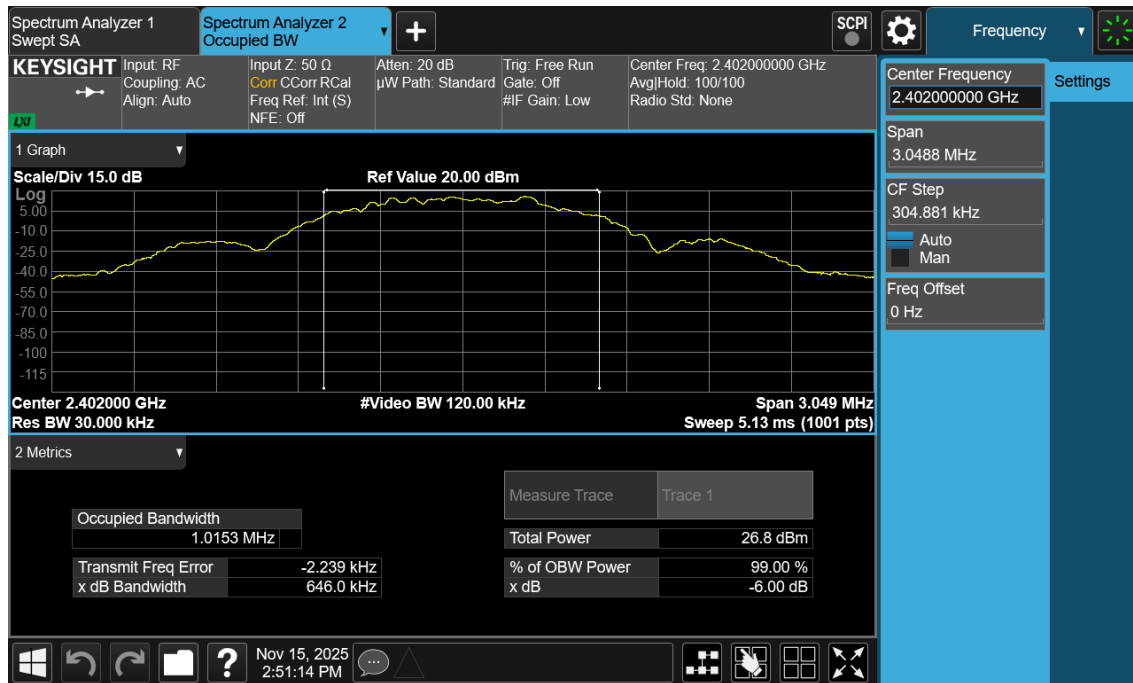


Plot 7-5. 99% OBW Plot Antenna 3a (Bluetooth (LE), 500kbps, ePA - Ch. 19)

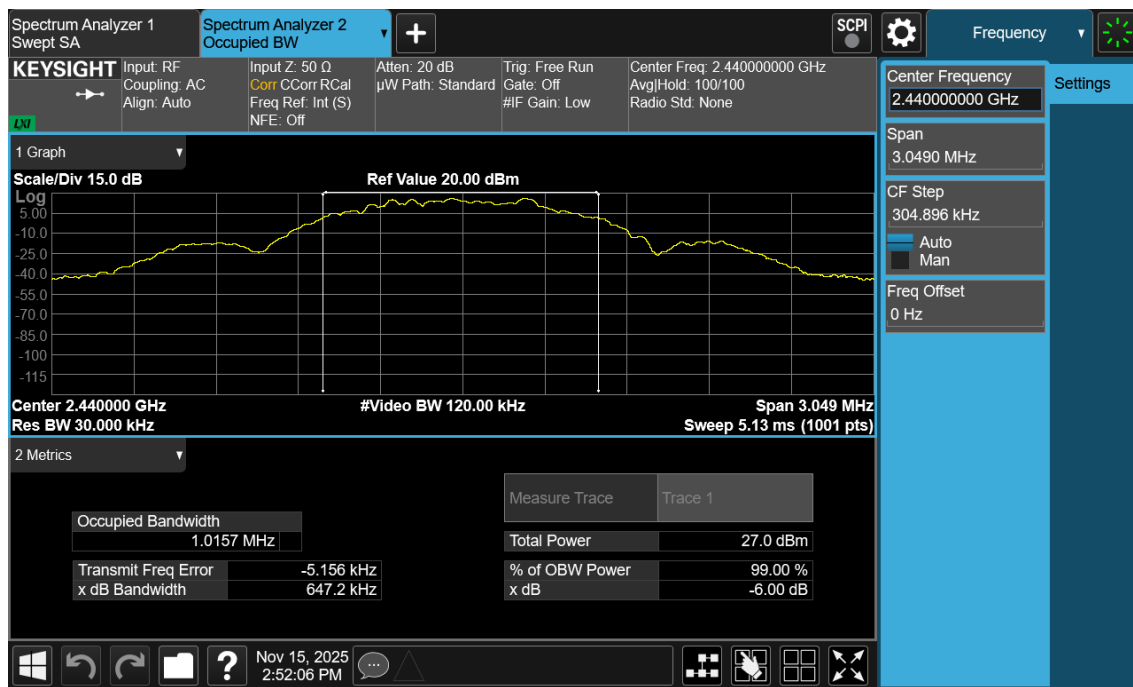


Plot 7-6. 99% OBW Plot Antenna 3a (Bluetooth (LE), 500kbps, ePA - Ch. 39)

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Plot 7-7. 99% OBW Plot Antenna 3a (Bluetooth (LE), 1Mbps, ePA - Ch. 0)

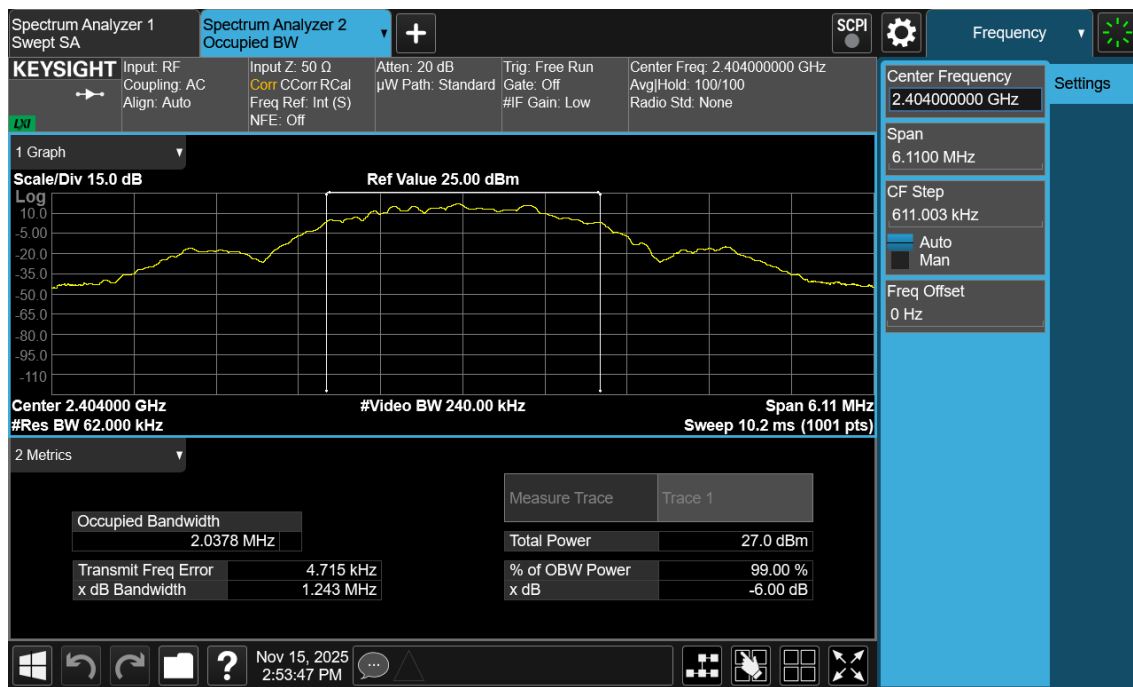
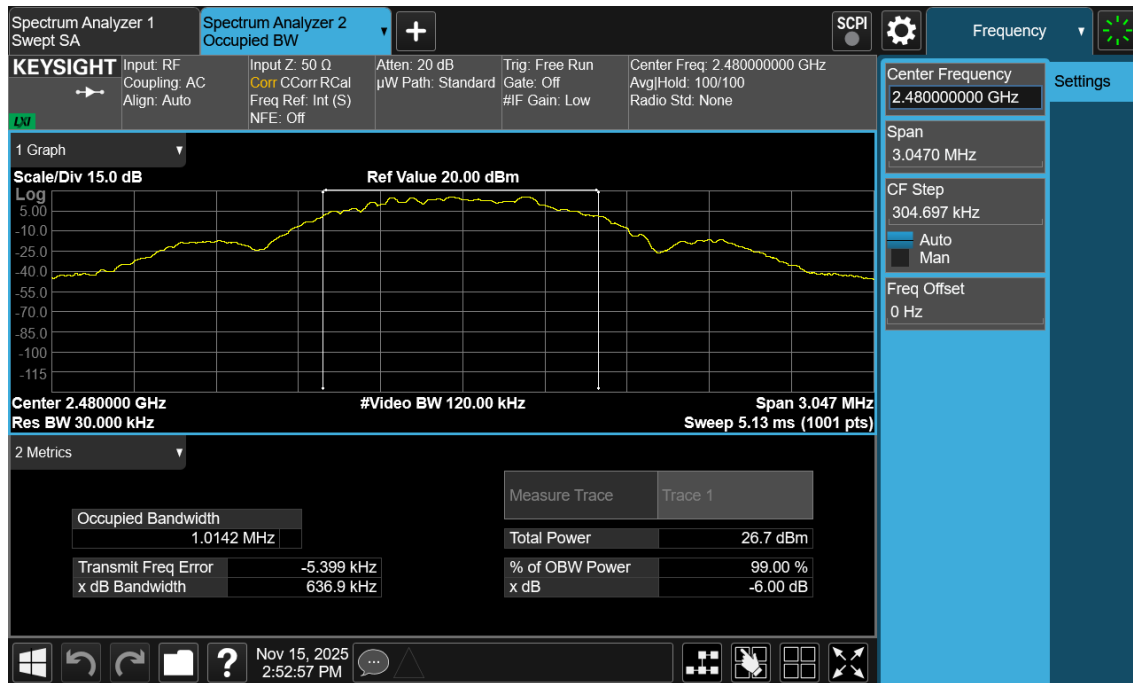


Plot 7-8. 99% OBW Plot Antenna 3a (Bluetooth (LE), 1Mbps, ePA - Ch. 19)

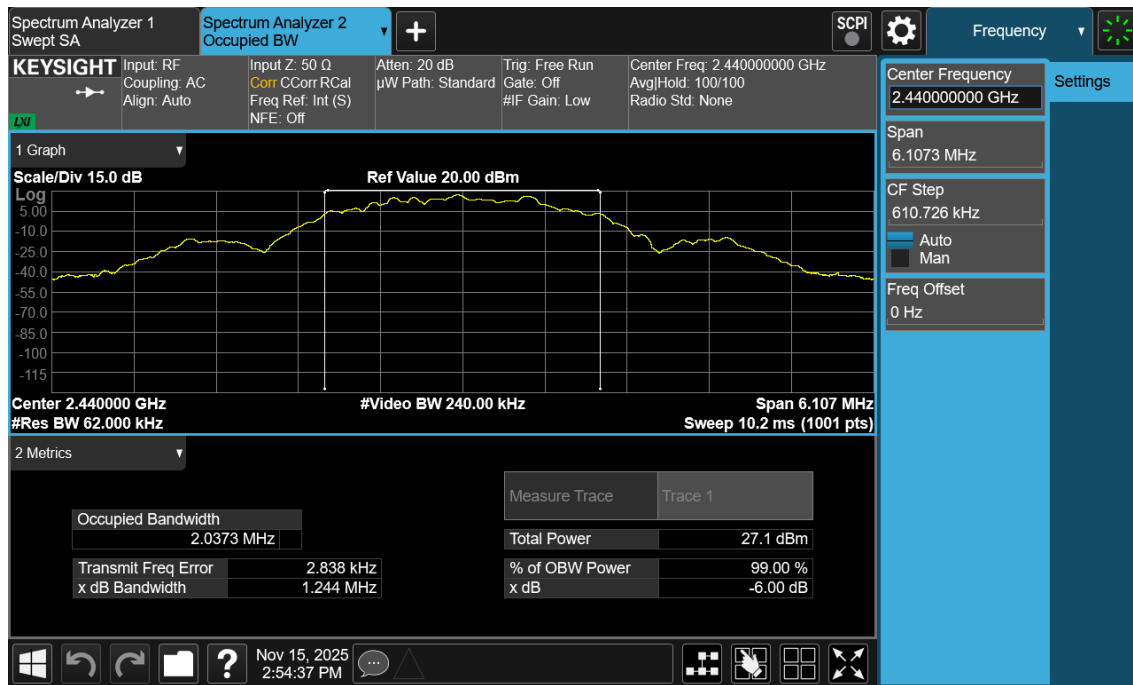
FCC ID: BCGA3462 IC: 579C-A3462		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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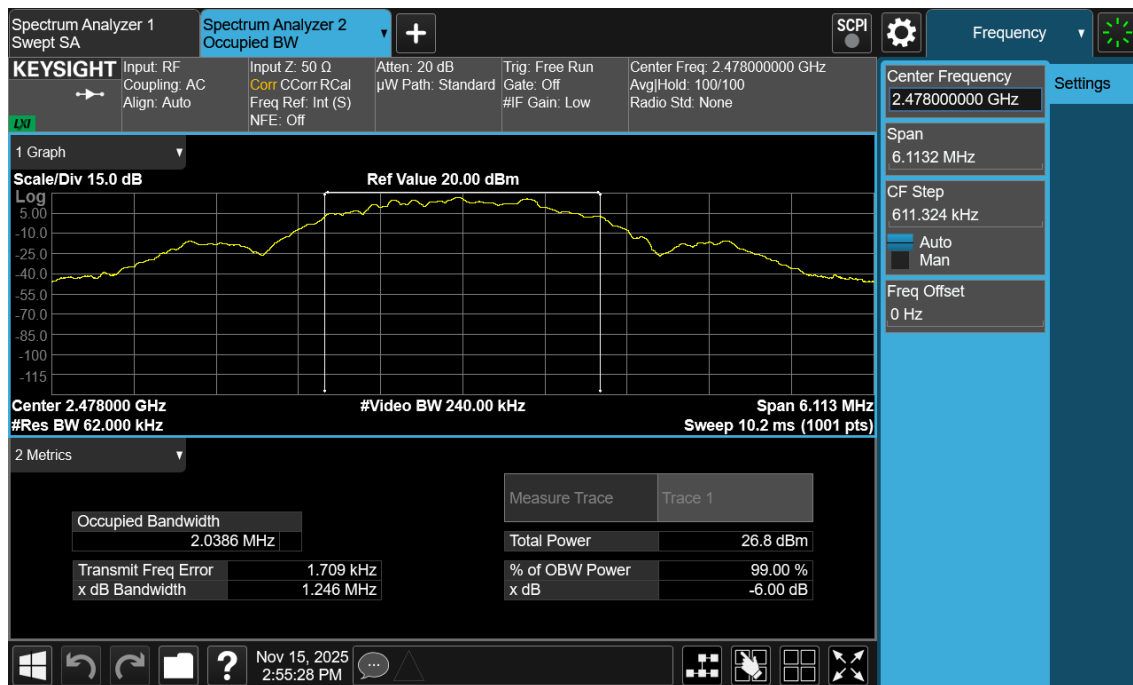
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Plot 7-11. 99% OBW Plot Antenna 3a (Bluetooth (LE), 2Mbps, ePA – Ch. 19)



Plot 7-12. 99% OBW Plot Antenna 3a (Bluetooth (LE), 2Mbps, ePA – Ch. 38)

FCC ID: BCGA3462 IC: 579C-A3462		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.2.2 Antenna 1a

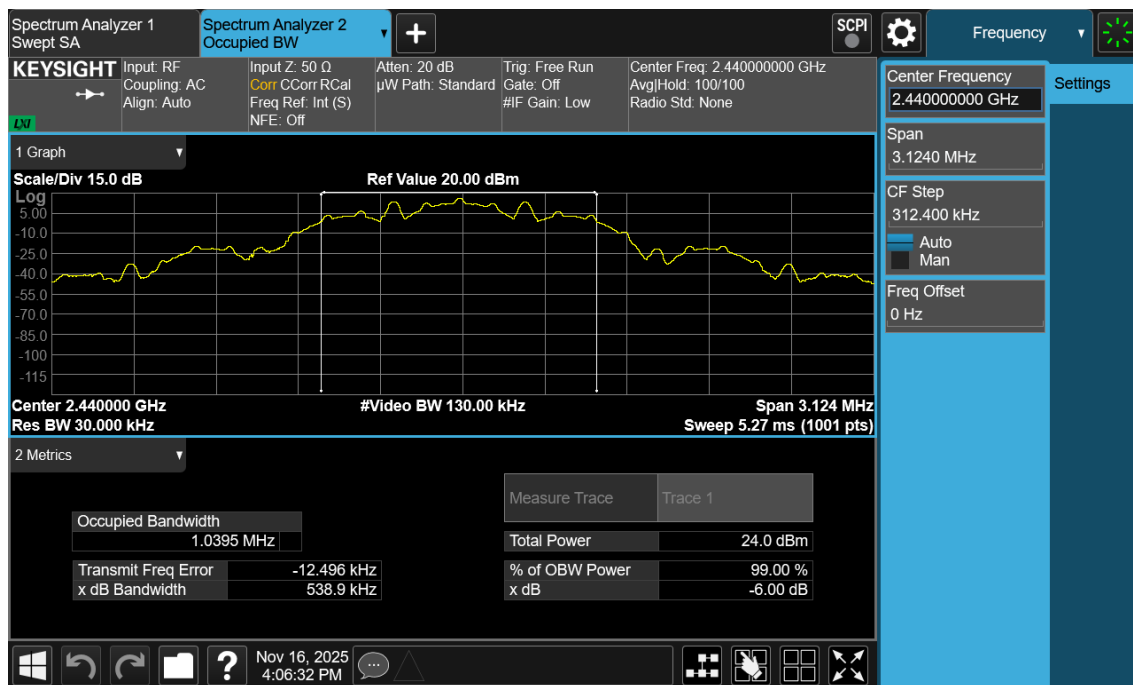
Frequency [MHz]	Data Rate [Mbps]	Power Scheme	Channel	Measured 99% Occupied Bandwidth [MHz]
2402	0.125	ePA	0	1.040
2440	0.125	ePA	19	1.040
2480	0.125	ePA	39	1.041
2402	0.500	ePA	0	1.017
2440	0.500	ePA	19	1.017
2480	0.500	ePA	39	1.017
2402	1.0	ePA	0	1.015
2440	1.0	ePA	19	1.015
2480	1.0	ePA	39	1.014
2404	2.0	ePA	1	2.039
2440	2.0	ePA	19	2.039
2478	2.0	ePA	38	2.039

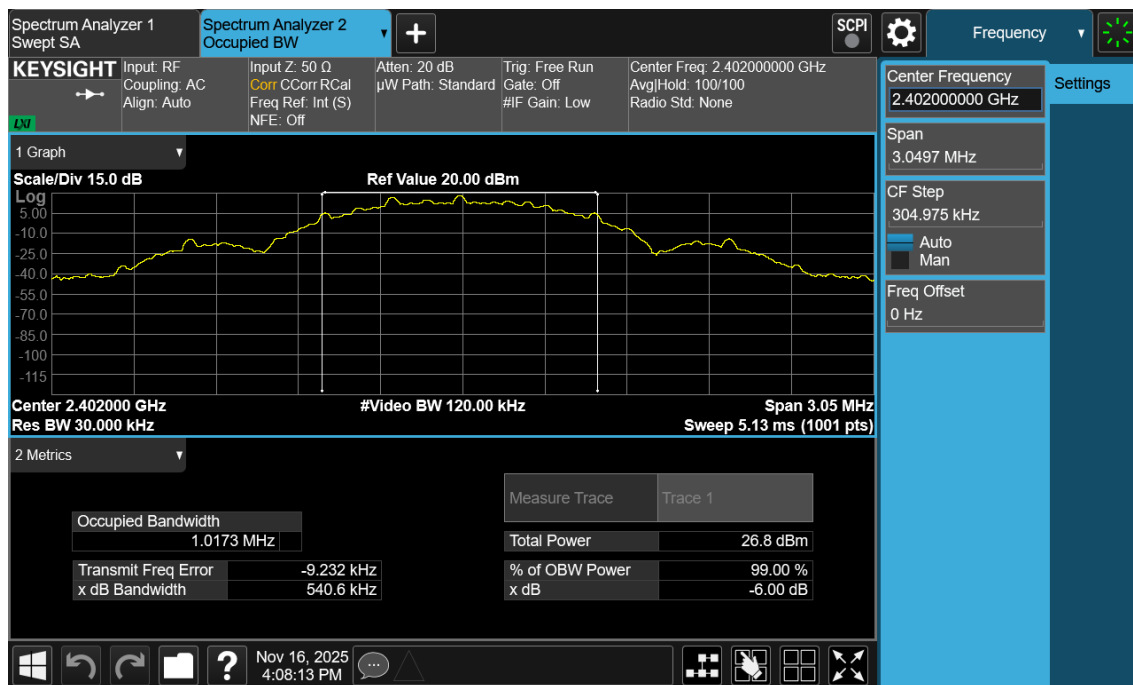
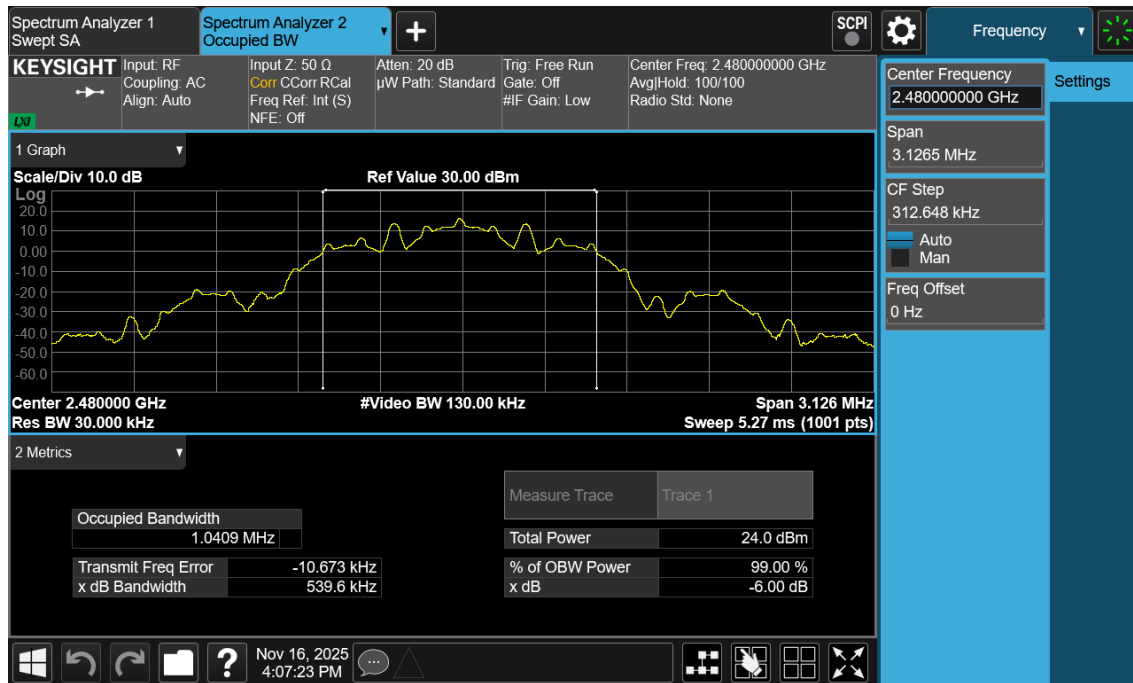
Table 7-3. 99% OBW Measurements Antenna 1a

FCC ID: BCGA3462 IC: 579C-A3462		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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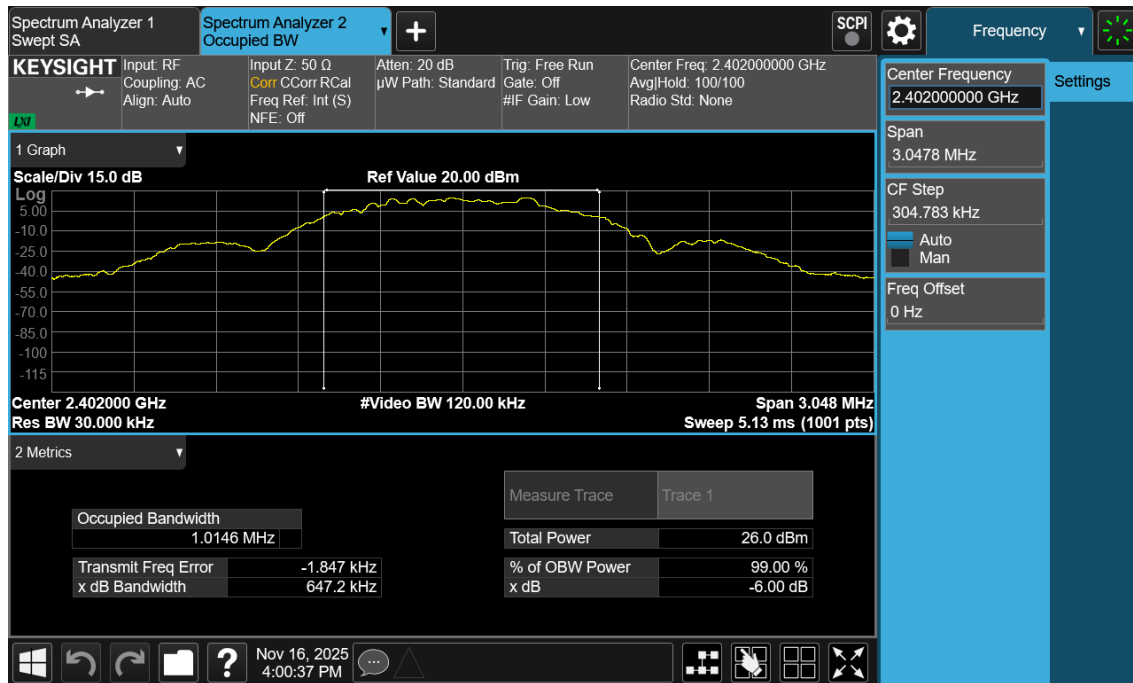
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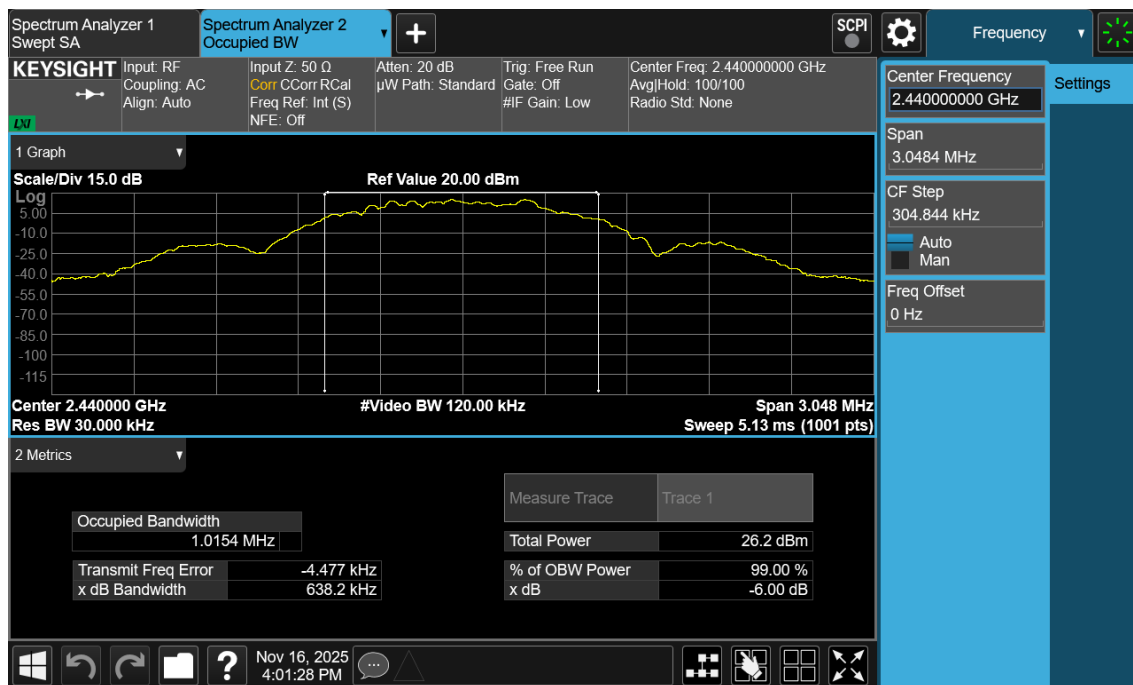




FCC ID: BCGA3462 IC: 579C-A3462		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-19. 99% OBW Plot Antenna 1a (Bluetooth (LE), 1Mbps, ePA - Ch. 0)

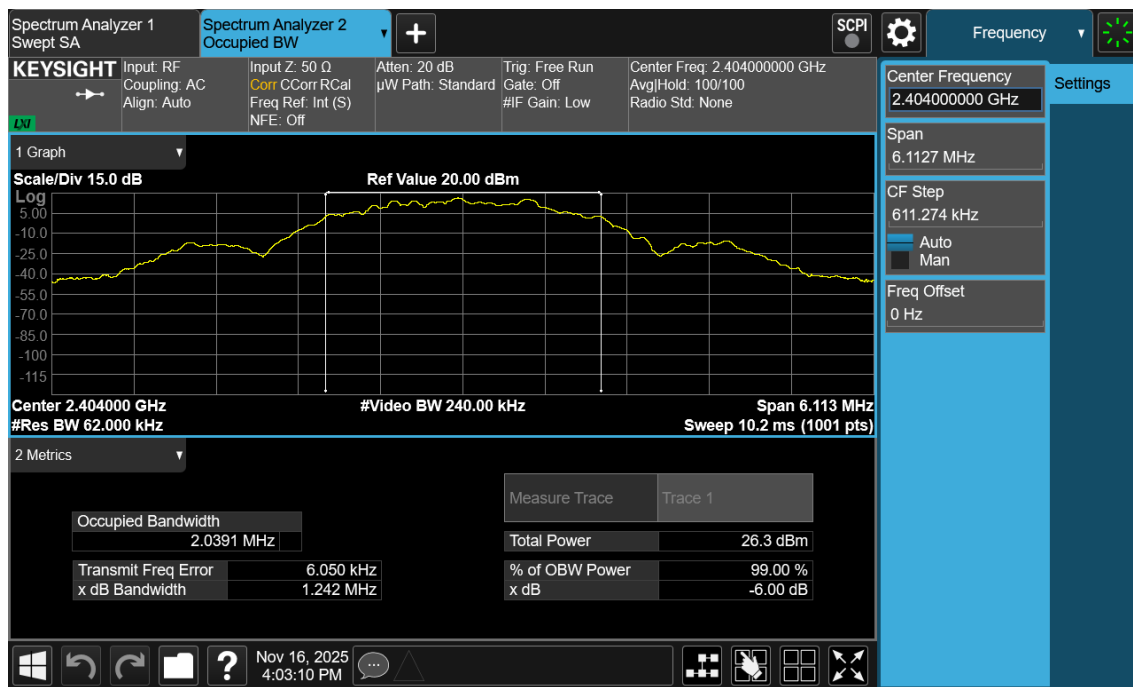


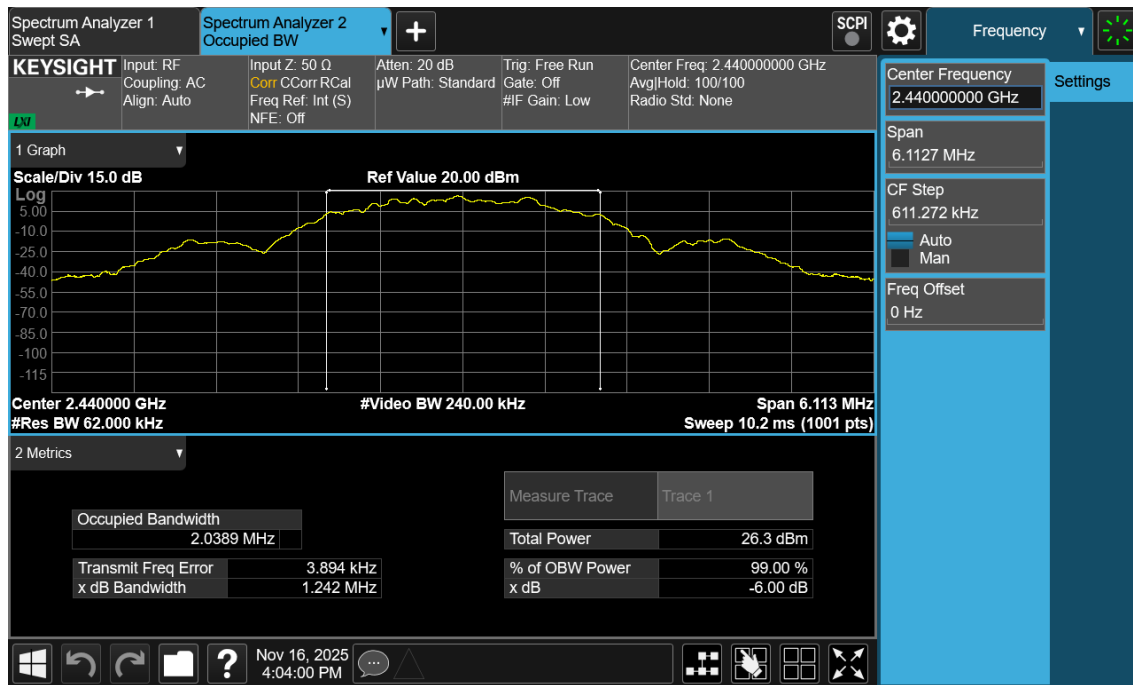
Plot 7-20. 99% OBW Plot Antenna 1a (Bluetooth (LE), 1Mbps, ePA - Ch. 19)

FCC ID: BCGA3462 IC: 579C-A3462		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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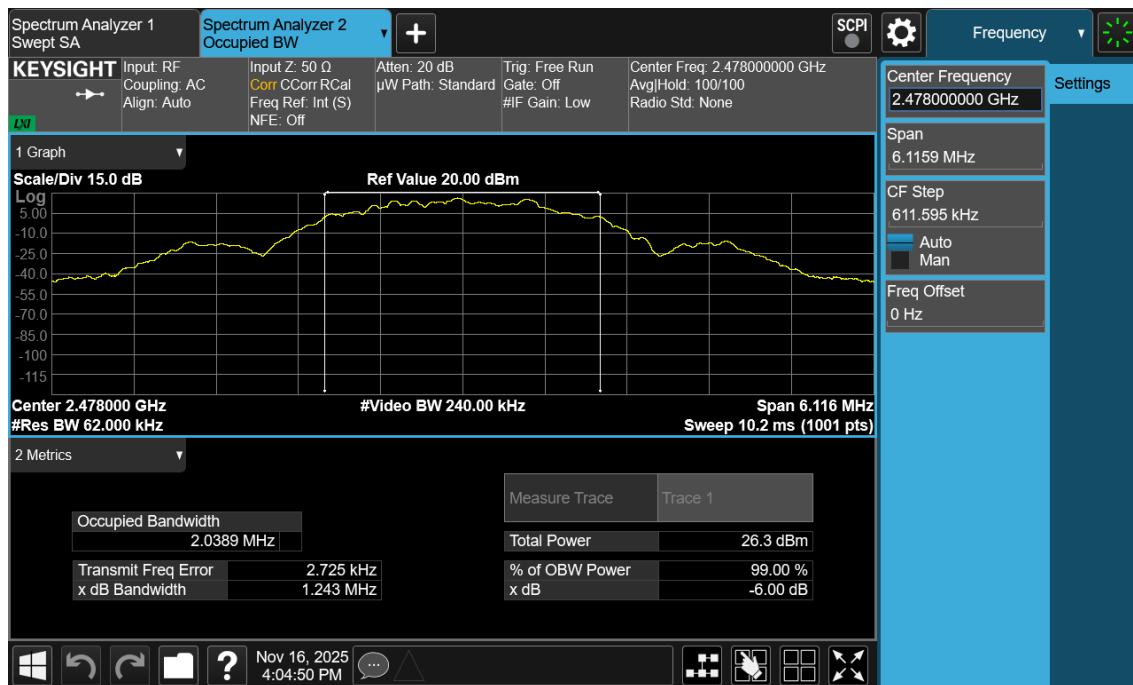
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Plot 7-23. 99% OBW Plot Antenna 1a (Bluetooth (LE), 2Mbps, ePA – Ch. 19)



Plot 7-24. 99% OBW Plot Antenna 1a (Bluetooth (LE), 2Mbps, ePA – Ch. 38)

FCC ID: BCGA3462 IC: 579C-A3462		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.3 6 dB Bandwidth Measurement

§15.247(a)(2); RSS-247 [6.3.1(a)]

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 minimum permissible 6dB bandwidth is 500 kHz.

Test Procedure Used

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Subclause 11.8.2 Option 2
KDB 558074 D01 v05r02 – Section 8.2

Test Settings

1. The signal analyzers' automatic bandwidth measurement capability of the spectrum analyzer was used to perform 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.

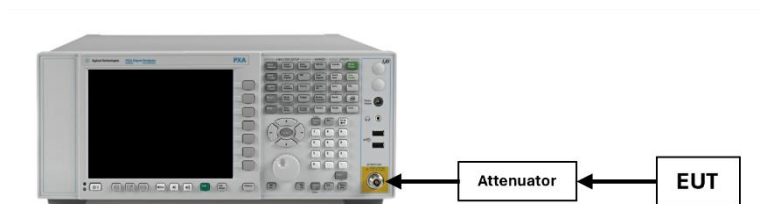


Figure 7-2. Test Instrument & Measurement Setup

Test Notes

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

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7.3.1 Antenna 3a

Frequency [MHz]	Data Rate [Mbps]	Power Scheme	Channel	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass/Fail
2402	0.125	ePA	0	0.677	0.50	Pass
2440	0.125	ePA	19	0.680	0.50	Pass
2480	0.125	ePA	39	0.682	0.50	Pass
2402	0.500	ePA	0	0.664	0.50	Pass
2440	0.500	ePA	19	0.662	0.50	Pass
2480	0.500	ePA	39	0.661	0.50	Pass
2402	1.0	ePA	0	0.665	0.50	Pass
2440	1.0	ePA	19	0.663	0.50	Pass
2480	1.0	ePA	39	0.665	0.50	Pass
2404	2.0	ePA	1	1.183	0.50	Pass
2440	2.0	ePA	19	1.182	0.50	Pass
2478	2.0	ePA	38	1.182	0.50	Pass

Table 7-4. 6dB BW Measurements Antenna 3a

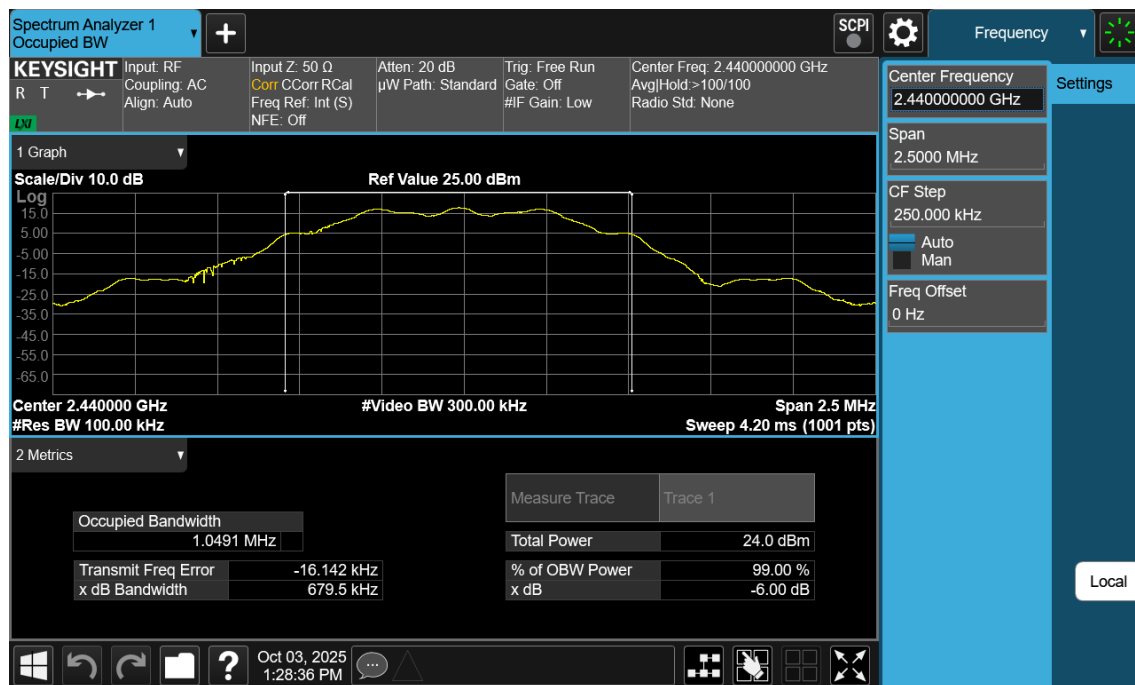
FCC ID: BCGA3462 IC: 579C-A3462		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-25. 6dB BW Plot Antenna 3a (Bluetooth (LE), 125kbps, ePA – Ch. 0)



Plot 7-26. 6dB BW Plot Antenna 3a (Bluetooth (LE), 125kbps, ePA – Ch. 19)

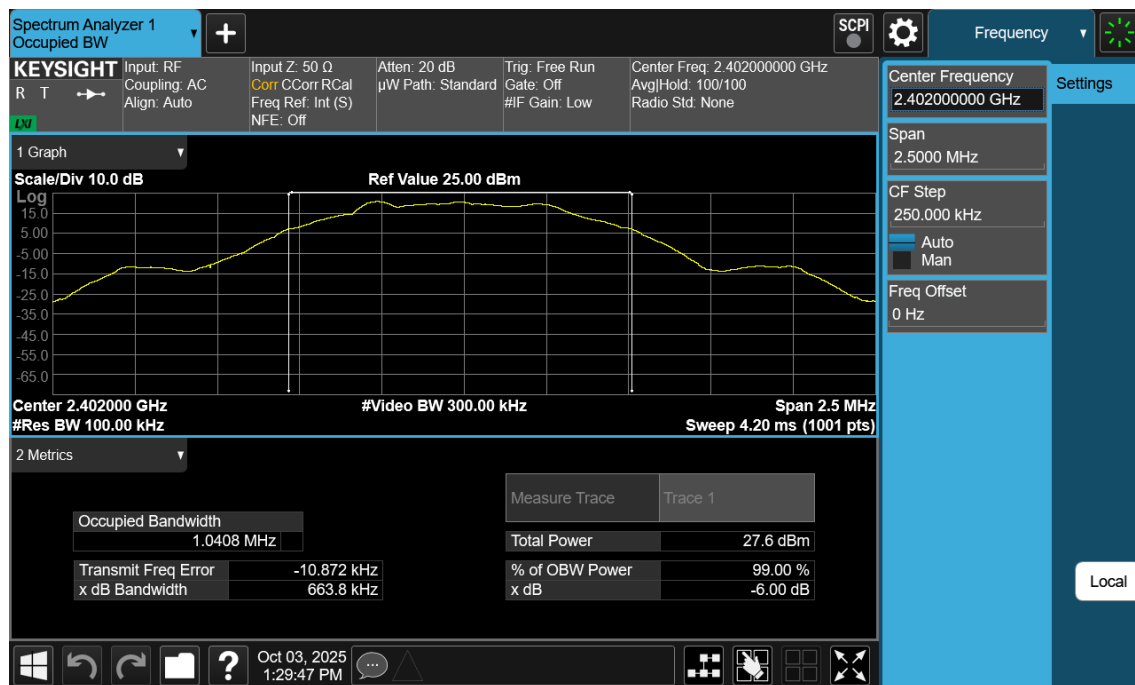
FCC ID: BCGA3462 IC: 579C-A3462		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-27. 6dB BW Plot Antenna 3a (Bluetooth (LE), 125kbps, ePA – Ch. 39)



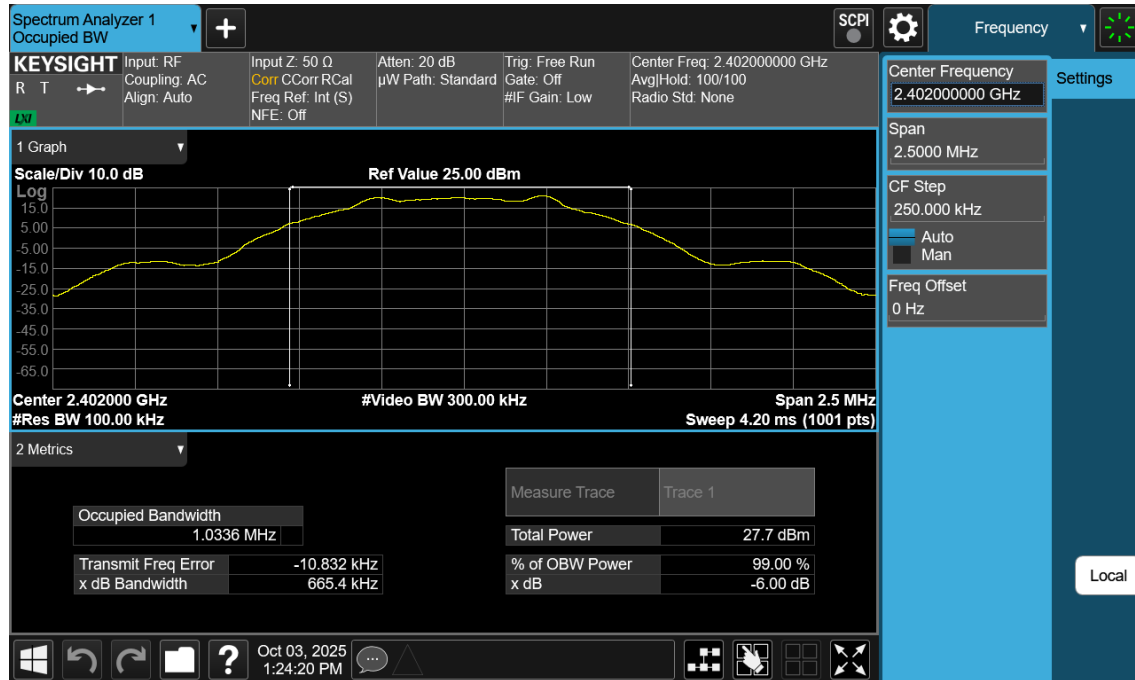
Plot 7-28. 6dB BW Plot Antenna 3a (Bluetooth (LE), 500kbps, ePA – Ch. 0)

FCC ID: BCGA3462 IC: 579C-A3462	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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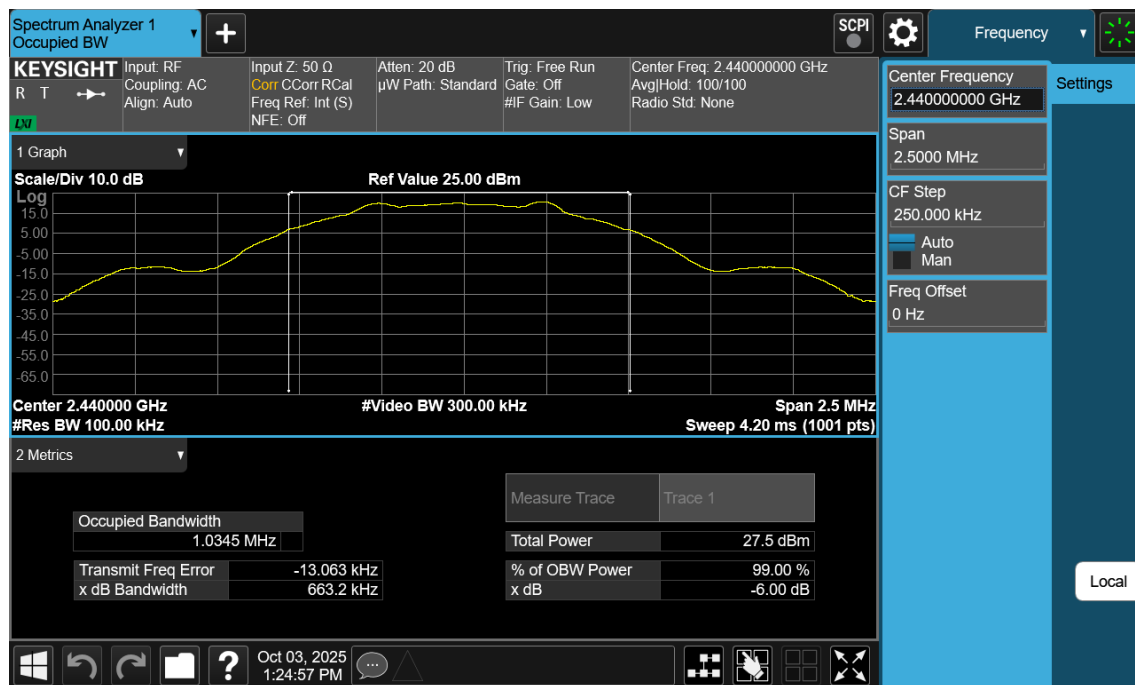
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Plot 7-31. 6dB BW Plot Antenna 3a (Bluetooth (LE), 1Mbps, ePA – Ch. 0)



Plot 7-32. 6dB BW Plot Antenna 3a (Bluetooth (LE), 1Mbps, ePA – Ch. 19)

FCC ID: BCGA3462 IC: 579C-A3462	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.3.2 Antenna 1a

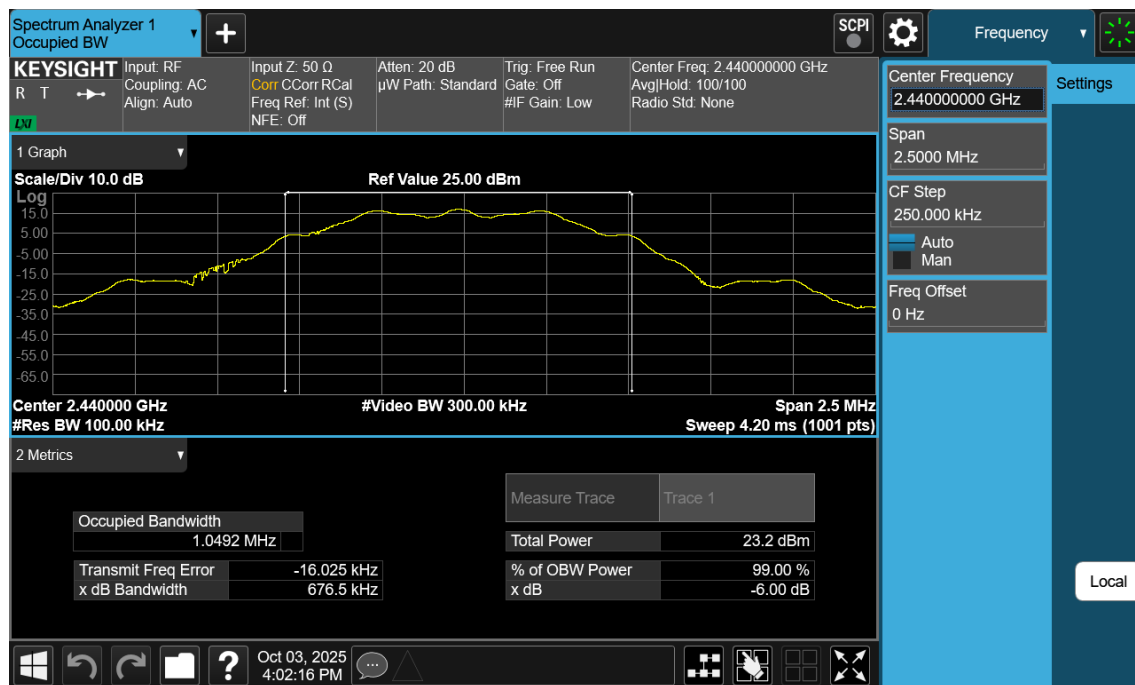
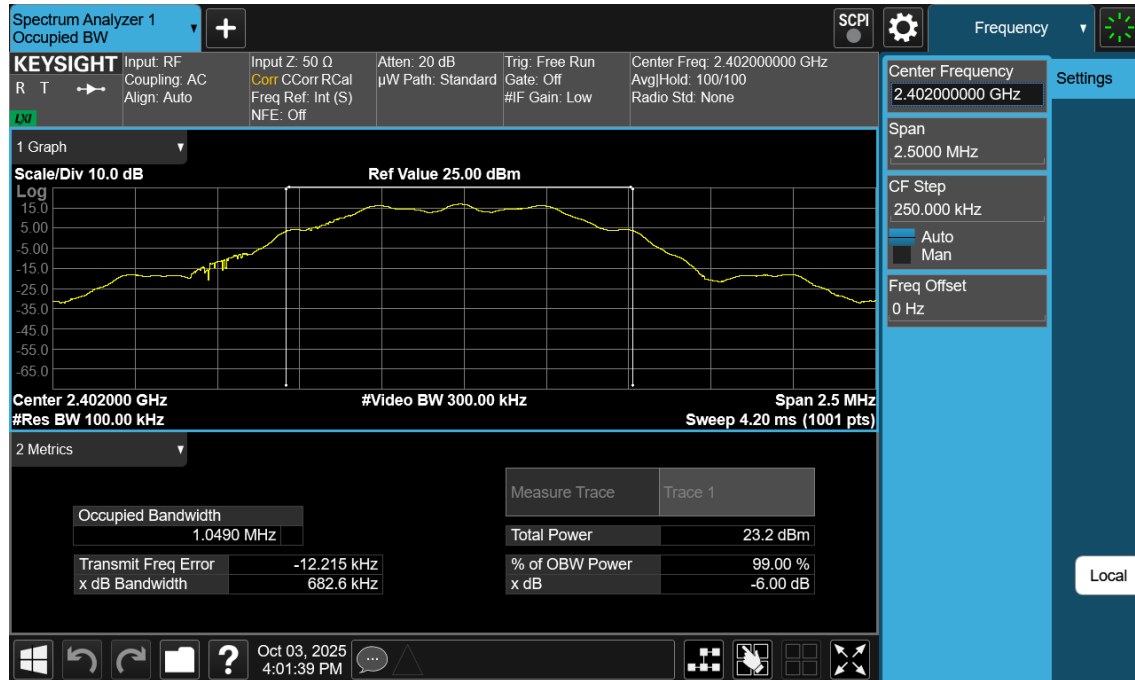
Frequency [MHz]	Data Rate [Mbps]	Power Scheme	Channel	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass/Fail
2402	0.125	ePA	0	0.683	0.50	Pass
2440	0.125	ePA	19	0.677	0.50	Pass
2480	0.125	ePA	39	0.684	0.50	Pass
2402	0.500	ePA	0	0.663	0.50	Pass
2440	0.500	ePA	19	0.660	0.50	Pass
2480	0.500	ePA	39	0.660	0.50	Pass
2402	1.0	ePA	0	0.665	0.50	Pass
2440	1.0	ePA	19	0.663	0.50	Pass
2480	1.0	ePA	39	0.665	0.50	Pass
2404	2.0	ePA	1	1.181	0.50	Pass
2440	2.0	ePA	19	1.180	0.50	Pass
2478	2.0	ePA	38	1.182	0.50	Pass

Table 7-5. 6dB BW Measurements Antenna 1a

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Plot 7-39. 6dB BW Plot Antenna 1a (Bluetooth (LE), 125kbps, ePA – Ch. 39)



Plot 7-40. 6dB BW Plot Antenna 1a (Bluetooth (LE), 500kbps, ePA – Ch. 0)

FCC ID: BCGA3462 IC: 579C-A3462	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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FCC ID: BCGA3462 IC: 579C-A3462		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.4 Output Power Measurement

§15.247(b)(3); RSS-247 [6.3.2]

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 DTSSs 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 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – 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 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – 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 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Subclause 14.4 Measure-and-Sum Technique

KDB 662911 D01 v02r01 – Section E)1) Measure-and-Sum Technique

Test Settings

Method PKPM1 (Peak Power Measurement)

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

Method AVGPM-G (Average Power Measurement)

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power

Test Setup

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



Figure 7-3. Test Instrument & Measurement Setup for Peak and Average Power Measurement

Test Notes

None

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7.4.1 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	0.125	ePA	0	12.53	17.906	30.00	-17.47	2.50	15.03	36.02	-20.99
2440	0.125	ePA	19	12.25	16.788	30.00	-17.75	2.50	14.75	36.02	-21.27
2480	0.125	ePA	39	12.46	17.620	30.00	-17.54	2.50	14.96	36.02	-21.06
2402	0.125	iPA	0	8.74	7.482	30.00	-21.26	2.50	11.24	36.02	-24.78
2440	0.125	iPA	19	8.97	7.889	30.00	-21.03	2.50	11.47	36.02	-24.55
2480	0.125	iPA	39	8.67	7.362	30.00	-21.33	2.50	11.17	36.02	-24.85
2404	0.5	ePA	0	12.32	17.061	30.00	-17.68	2.50	14.82	36.02	-21.20
2440	0.5	ePA	19	12.28	16.904	30.00	-17.72	2.50	14.78	36.02	-21.24
2478	0.5	ePA	39	12.27	16.866	30.00	-17.73	2.50	14.77	36.02	-21.25
2404	0.5	iPA	0	9.03	7.998	30.00	-20.97	2.50	11.53	36.02	-24.49
2440	0.5	iPA	19	8.99	7.925	30.00	-21.02	2.50	11.49	36.02	-24.54
2478	0.5	iPA	39	8.81	7.603	30.00	-21.19	2.50	11.31	36.02	-24.71
2402	1.0	ePA	0	20.33	107.895	30.00	-9.67	2.50	22.83	36.02	-13.19
2440	1.0	ePA	19	20.61	115.080	30.00	-9.39	2.50	23.11	36.02	-12.91
2480	1.0	ePA	39	20.18	104.232	30.00	-9.82	2.50	22.68	36.02	-13.34
2402	1.0	iPA	0	8.85	7.674	30.00	-21.15	2.50	11.35	36.02	-24.67
2440	1.0	iPA	19	8.96	7.870	30.00	-21.05	2.50	11.46	36.02	-24.57
2480	1.0	iPA	39	8.79	7.568	30.00	-21.21	2.50	11.29	36.02	-24.73
2404	2.0	ePA	1	20.31	107.399	30.00	-9.69	2.50	22.81	36.02	-13.21
2440	2.0	ePA	19	20.61	115.080	30.00	-9.39	2.50	23.11	36.02	-12.91
2478	2.0	ePA	38	20.59	114.551	30.00	-9.41	2.50	23.09	36.02	-12.93
2404	2.0	iPA	1	8.50	7.079	30.00	-21.51	2.50	11.00	36.02	-25.03
2440	2.0	iPA	19	9.00	7.943	30.00	-21.00	2.50	11.50	36.02	-24.52
2478	2.0	iPA	38	8.94	7.834	30.00	-21.07	2.50	11.44	36.02	-24.59

Table 7-6. 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	0.125	ePA	0	12.32	17.061	30.00	-17.69	0.70	13.02	36.02	-23.01
2440	0.125	ePA	19	12.29	16.943	30.00	-17.71	0.70	12.99	36.02	-23.03
2480	0.125	ePA	39	12.29	16.943	30.00	-17.71	0.70	12.99	36.02	-23.03
2402	0.125	iPA	0	7.81	6.039	30.00	-22.20	0.70	8.51	36.02	-27.52
2440	0.125	iPA	19	7.94	6.223	30.00	-22.06	0.70	8.64	36.02	-27.38
2480	0.125	iPA	39	7.76	5.970	30.00	-22.24	0.70	8.46	36.02	-27.56
2404	0.5	ePA	0	12.65	18.408	30.00	-17.35	0.70	13.35	36.02	-22.67
2440	0.5	ePA	19	12.34	17.140	30.00	-17.66	0.70	13.04	36.02	-22.98
2478	0.5	ePA	39	12.16	16.444	30.00	-17.84	0.70	12.86	36.02	-23.16
2404	0.5	iPA	0	7.86	6.109	30.00	-22.14	0.70	8.56	36.02	-27.46
2440	0.5	iPA	19	7.95	6.237	30.00	-22.05	0.70	8.65	36.02	-27.37
2478	0.5	iPA	39	7.74	5.943	30.00	-22.26	0.70	8.44	36.02	-27.58
2402	1.0	ePA	0	20.13	103.039	30.00	-9.87	0.70	20.83	36.02	-15.19
2440	1.0	ePA	19	19.76	94.624	30.00	-10.24	0.70	20.46	36.02	-15.56
2480	1.0	ePA	39	20.05	101.158	30.00	-9.95	0.70	20.75	36.02	-15.27
2402	1.0	iPA	0	7.79	6.012	30.00	-22.21	0.70	8.49	36.02	-27.53
2440	1.0	iPA	19	7.67	5.848	30.00	-22.33	0.70	8.37	36.02	-27.65
2480	1.0	iPA	39	8.11	6.471	30.00	-21.89	0.70	8.81	36.02	-27.21
2404	2.0	ePA	1	20.15	103.514	30.00	-9.85	0.70	20.85	36.02	-15.17
2440	2.0	ePA	19	20.19	104.472	30.00	-9.81	0.70	20.89	36.02	-15.13
2478	2.0	ePA	38	20.07	101.625	30.00	-9.93	0.70	20.77	36.02	-15.25
2404	2.0	iPA	1	7.88	6.138	30.00	-22.12	0.70	8.58	36.02	-27.44
2440	2.0	iPA	19	7.98	6.281	30.00	-22.02	0.70	8.68	36.02	-27.34
2478	2.0	iPA	38	7.53	5.662	30.00	-22.48	0.70	8.23	36.02	-27.80

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

FCC ID: BCGA3462 IC: 579C-A3462	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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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	0.125	ePA	0	9.56	9.036	9.36	8.630	12.47	17.660	30.00	-17.53	4.66	17.13	36.02	-18.89
2440	0.125	ePA	19	9.26	8.433	9.34	8.590	12.31	17.022	30.00	-17.69	4.66	16.97	36.02	-19.05
2480	0.125	ePA	39	9.48	8.872	9.34	8.590	12.42	17.458	30.00	-17.58	4.66	17.08	36.02	-18.94
2402	0.125	iPA	0	8.89	7.745	7.80	6.026	11.39	13.772	30.00	-18.61	4.66	16.05	36.02	-19.97
2440	0.125	iPA	19	8.97	7.889	7.94	6.223	11.50	14.125	30.00	-18.50	4.66	16.16	36.02	-19.86
2480	0.125	iPA	39	8.75	7.499	8.09	6.442	11.44	13.932	30.00	-18.56	4.66	16.10	36.02	-19.92
2404	0.5	ePA	0	9.36	8.630	9.22	8.356	12.30	16.982	30.00	-17.70	4.66	16.96	36.02	-19.06
2440	0.5	ePA	19	9.29	8.492	9.38	8.670	12.35	17.179	30.00	-17.65	4.66	17.01	36.02	-19.01
2478	0.5	ePA	39	9.29	8.492	9.22	8.356	12.26	16.827	30.00	-17.74	4.66	16.92	36.02	-19.10
2404	0.5	iPA	0	8.64	7.311	7.87	6.124	11.28	13.428	30.00	-18.72	4.66	15.94	36.02	-20.08
2440	0.5	iPA	19	8.98	7.907	7.95	6.237	11.50	14.125	30.00	-18.50	4.66	16.16	36.02	-19.86
2478	0.5	iPA	39	8.77	7.534	7.74	5.943	11.30	13.490	30.00	-18.70	4.66	15.96	36.02	-20.06
2402	1.0	ePA	0	19.45	88.105	19.23	83.753	22.35	171.791	30.00	-7.65	4.66	27.01	36.02	-9.01
2440	1.0	ePA	19	19.69	93.111	19.30	85.114	22.51	178.238	30.00	-7.49	4.66	27.17	36.02	-8.85
2480	1.0	ePA	39	19.30	85.114	19.60	91.201	22.46	176.198	30.00	-7.54	4.66	27.12	36.02	-8.90
2402	1.0	iPA	0	8.88	7.727	7.80	6.026	11.39	13.772	30.00	-18.61	4.66	16.05	36.02	-19.97
2440	1.0	iPA	19	8.97	7.889	7.93	6.209	11.49	14.093	30.00	-18.51	4.66	16.15	36.02	-19.87
2480	1.0	iPA	39	8.72	7.447	8.09	6.442	11.43	13.900	30.00	-18.57	4.66	16.09	36.02	-19.93
2404	2.0	ePA	1	20.33	107.895	20.14	103.276	23.25	211.349	30.00	-6.75	4.66	27.91	36.02	-8.11
2440	2.0	ePA	19	20.55	113.501	20.16	103.753	23.37	217.270	30.00	-6.63	4.66	28.03	36.02	-7.99
2478	2.0	ePA	38	20.55	113.501	20.03	100.693	23.31	214.289	30.00	-6.69	4.66	27.97	36.02	-8.05
2404	2.0	iPA	1	8.96	7.870	7.92	6.194	11.48	14.060	30.00	-18.52	4.66	16.14	36.02	-19.88
2440	2.0	iPA	19	9.01	7.962	7.53	5.662	11.34	13.614	30.00	-18.66	4.66	16.00	36.02	-20.02
2478	2.0	iPA	38	9.35	8.610	7.95	6.237	11.71	14.825	30.00	-18.29	4.66	16.37	36.02	-19.65

Table 7-8. Peak Conducted Output Power Measurements TxBF (Bluetooth LE)

FCC ID: BCGA3462 IC: 579C-A3462	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.4.2 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	0.125	ePA	0	12.34	17.140	30.00	-17.66	2.50	14.84	36.02	-21.18
2440	0.125	ePA	19	12.15	16.406	30.00	-17.85	2.50	14.65	36.02	-21.37
2480	0.125	ePA	39	12.29	16.943	30.00	-17.72	2.50	14.79	36.02	-21.24
2402	0.125	iPA	0	8.61	7.261	30.00	-21.39	2.50	11.11	36.02	-24.91
2440	0.125	iPA	19	8.87	7.709	30.00	-21.13	2.50	11.37	36.02	-24.65
2480	0.125	iPA	39	8.52	7.112	30.00	-21.48	2.50	11.02	36.02	-25.00
2404	0.5	ePA	1	12.17	16.482	30.00	-17.83	2.50	14.67	36.02	-21.35
2440	0.5	ePA	19	12.16	16.444	30.00	-17.85	2.50	14.66	36.02	-21.37
2478	0.5	ePA	38	12.09	16.181	30.00	-17.91	2.50	14.59	36.02	-21.43
2404	0.5	iPA	1	8.93	7.816	30.00	-21.07	2.50	11.43	36.02	-24.59
2440	0.5	iPA	19	8.89	7.745	30.00	-21.11	2.50	11.39	36.02	-24.63
2478	0.5	iPA	38	8.72	7.447	30.00	-21.28	2.50	11.22	36.02	-24.80
2402	1.0	ePA	0	20.14	103.276	30.00	-9.86	2.50	22.64	36.02	-13.38
2440	1.0	ePA	19	20.41	109.901	30.00	-9.59	2.50	22.91	36.02	-13.11
2480	1.0	ePA	39	20.02	100.462	30.00	-9.98	2.50	22.52	36.02	-13.50
2402	1.0	iPA	0	8.73	7.464	30.00	-21.27	2.50	11.23	36.02	-24.79
2440	1.0	iPA	19	8.80	7.586	30.00	-21.21	2.50	11.30	36.02	-24.73
2480	1.0	iPA	39	8.68	7.379	30.00	-21.32	2.50	11.18	36.02	-24.84
2404	2.0	ePA	1	20.12	102.802	30.00	-9.88	2.50	22.62	36.02	-13.40
2440	2.0	ePA	19	20.35	108.393	30.00	-9.65	2.50	22.85	36.02	-13.17
2478	2.0	ePA	38	20.39	109.396	30.00	-9.61	2.50	22.89	36.02	-13.13
2404	2.0	iPA	1	8.59	7.228	30.00	-21.41	2.50	11.09	36.02	-24.93
2440	2.0	iPA	19	8.89	7.745	30.00	-21.12	2.50	11.39	36.02	-24.64
2478	2.0	iPA	38	8.89	7.745	30.00	-21.11	2.50	11.39	36.02	-24.63

Table 7-9. 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	0.125	ePA	0	12.13	16.331	30.00	-17.87	0.70	12.83	36.02	-23.19
2440	0.125	ePA	19	12.15	16.406	30.00	-17.85	0.70	12.85	36.02	-23.17
2480	0.125	ePA	39	12.11	16.255	30.00	-17.89	0.70	12.81	36.02	-23.21
2402	0.125	iPA	0	7.71	5.902	30.00	-22.30	0.70	8.41	36.02	-27.62
2440	0.125	iPA	19	7.80	6.026	30.00	-22.20	0.70	8.50	36.02	-27.52
2480	0.125	iPA	39	7.53	5.662	30.00	-22.47	0.70	8.23	36.02	-27.79
2404	0.5	ePA	1	12.46	17.620	30.00	-17.54	0.70	13.16	36.02	-22.86
2440	0.5	ePA	19	12.19	16.558	30.00	-17.81	0.70	12.89	36.02	-23.13
2478	0.5	ePA	38	12.01	15.885	30.00	-17.99	0.70	12.71	36.02	-23.31
2404	0.5	iPA	1	7.73	5.929	30.00	-22.28	0.70	8.43	36.02	-27.60
2440	0.5	iPA	19	7.84	6.081	30.00	-22.16	0.70	8.54	36.02	-27.48
2478	0.5	iPA	38	7.60	5.754	30.00	-22.40	0.70	8.30	36.02	-27.72
2402	1.0	ePA	0	19.92	98.175	30.00	-10.08	0.70	20.62	36.02	-15.40
2440	1.0	ePA	19	19.58	90.782	30.00	-10.42	0.70	20.28	36.02	-15.74
2480	1.0	ePA	39	19.86	96.828	30.00	-10.14	0.70	20.56	36.02	-15.46
2402	1.0	iPA	0	7.64	5.808	30.00	-22.36	0.70	8.34	36.02	-27.68
2440	1.0	iPA	19	7.53	5.662	30.00	-22.47	0.70	8.23	36.02	-27.79
2480	1.0	iPA	39	7.95	6.237	30.00	-22.05	0.70	8.65	36.02	-27.37
2404	2.0	ePA	1	19.90	97.724	30.00	-10.10	0.70	20.60	36.02	-15.42
2440	2.0	ePA	19	19.97	99.312	30.00	-10.03	0.70	20.67	36.02	-15.35
2478	2.0	ePA	38	19.74	94.189	30.00	-10.27	0.70	20.44	36.02	-15.59
2404	2.0	iPA	1	7.95	6.237	30.00	-22.05	0.70	8.65	36.02	-27.37
2440	2.0	iPA	19	7.86	6.109	30.00	-22.14	0.70	8.56	36.02	-27.46
2478	2.0	iPA	38	7.36	5.445	30.00	-22.65	0.70	8.06	36.02	-27.97

Table 7-10. Average Conducted Output Power Measurements Antenna 1a (Bluetooth LE)

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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		Summed							
				[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]						
2402	0.125	ePA	0	9.41	8.730	9.19	8.299	12.31	17.022	30.00	-17.69	4.66	16.97	36.02	-19.05
2440	0.125	ePA	19	9.14	8.204	9.19	8.299	12.17	16.482	30.00	-17.83	4.66	16.83	36.02	-19.19
2480	0.125	ePA	39	9.33	8.570	9.21	8.337	12.28	16.904	30.00	-17.72	4.66	16.94	36.02	-19.08
2402	0.125	iPA	0	8.75	7.499	7.63	5.794	11.23	13.274	30.00	-18.77	4.66	15.89	36.02	-20.13
2440	0.125	iPA	19	8.85	7.674	7.82	6.053	11.38	13.740	30.00	-18.62	4.66	16.04	36.02	-19.98
2480	0.125	iPA	39	8.61	7.261	7.97	6.266	11.31	13.521	30.00	-18.69	4.66	15.97	36.02	-20.05
2404	0.5	ePA	1	9.19	8.299	9.01	7.962	12.11	16.255	30.00	-17.89	4.66	16.77	36.02	-19.25
2440	0.5	ePA	19	9.11	8.147	9.21	8.337	12.17	16.482	30.00	-17.83	4.66	16.83	36.02	-19.19
2478	0.5	ePA	38	9.10	8.128	9.03	7.998	12.08	16.144	30.00	-17.92	4.66	16.74	36.02	-19.28
2404	0.5	iPA	1	8.52	7.112	7.73	5.929	11.16	13.062	30.00	-18.84	4.66	15.82	36.02	-20.20
2440	0.5	iPA	19	8.84	7.656	7.79	6.012	11.36	13.677	30.00	-18.64	4.66	16.02	36.02	-20.00
2478	0.5	iPA	38	8.65	7.328	7.59	5.741	11.16	13.062	30.00	-18.84	4.66	15.82	36.02	-20.20
2402	1.0	ePA	0	19.25	84.140	19.03	79.983	22.15	164.059	30.00	-7.85	4.66	26.81	36.02	-9.21
2440	1.0	ePA	19	19.48	88.716	19.09	81.096	22.30	169.824	30.00	-7.70	4.66	26.96	36.02	-9.06
2480	1.0	ePA	39	19.11	81.470	19.39	86.896	22.26	168.267	30.00	-7.74	4.66	26.92	36.02	-9.10
2402	1.0	iPA	0	8.74	7.482	7.69	5.875	11.26	13.366	30.00	-18.74	4.66	15.92	36.02	-20.10
2440	1.0	iPA	19	8.84	7.656	7.77	5.984	11.35	13.646	30.00	-18.65	4.66	16.01	36.02	-20.01
2480	1.0	iPA	39	8.57	7.194	7.91	6.180	11.26	13.366	30.00	-18.74	4.66	15.92	36.02	-20.10
2404	2.0	ePA	1	20.11	102.565	19.93	98.401	23.03	200.909	30.00	-6.97	4.66	27.69	36.02	-8.33
2440	2.0	ePA	19	20.39	109.396	19.89	97.499	23.16	207.014	30.00	-6.84	4.66	27.82	36.02	-8.20
2478	2.0	ePA	38	20.28	106.660	19.88	97.275	23.09	203.704	30.00	-6.91	4.66	27.75	36.02	-8.27
2404	2.0	iPA	1	8.93	7.816	7.93	6.209	11.47	14.028	30.00	-18.53	4.66	16.13	36.02	-19.89
2440	2.0	iPA	19	8.99	7.925	7.57	5.715	11.35	13.646	30.00	-18.65	4.66	16.01	36.02	-20.01
2478	2.0	iPA	38	8.99	7.925	7.87	6.124	11.48	14.060	30.00	-18.52	4.66	16.14	36.02	-19.88

Table 7-11. Average Conducted Output Power Measurements TxBF (Bluetooth LE)

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Note:

Per ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 and KDB 662911 D01 v02r01 Section E)1), 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 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 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 9.41 dBm for Antenna 3a and 9.19 dBm for Antenna 1a.

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

$$(9.41 \text{ dBm} + 9.19 \text{ dBm}) = (8.730 \text{ mW} + 8.299 \text{ mW}) = 17.022 \text{ mW} = 12.31 \text{ dBm}$$

Sample e.i.r.p. Calculation:

At 2402MHz, the average conducted output power was calculated to be 12.31 dBm with directional gain of 4.66 dBi.

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

$$12.31 \text{ dBm} + 4.66 \text{ dBi} = 16.97 \text{ dBm}$$

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7.5 Power Spectral Density

§15.247(e); RSS-247 [6.3.1(b)]

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 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – 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 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Subclause 14.5.2.2 Measure-and-Sum Technique
KDB 662911 D01 v02r01 – Section E)2) Measure-and-Sum Technique

Test Settings

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

Test Setup

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

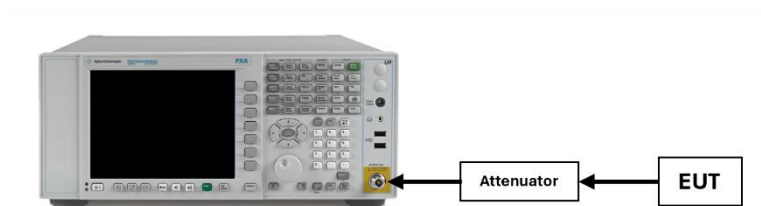


Figure 7-4. Test Instrument & Measurement Setup

Test Notes

None

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7.5.1 Antenna 3a

Frequency [MHz]	Data Rate [Mbps]	Power Scheme	Channel No.	Measured Power Density [dBm/3kHz]	Max Power Density [dBm/3kHz]	Margin [dB]
2402	0.125	ePA	0	5.93	8.0	-2.07
2440	0.125	ePA	19	5.63	8.0	-2.37
2480	0.125	ePA	39	5.89	8.0	-2.11
2402	0.125	iPA	0	2.86	8.0	-5.14
2440	0.125	iPA	19	2.29	8.0	-5.71
2480	0.125	iPA	39	2.38	8.0	-5.62
2402	0.5	ePA	0	5.69	8.0	-2.31
2440	0.5	ePA	19	5.47	8.0	-2.53
2480	0.5	ePA	39	5.71	8.0	-2.29
2402	0.5	iPA	0	2.60	8.0	-5.40
2440	0.5	iPA	19	2.10	8.0	-5.90
2480	0.5	iPA	39	2.26	8.0	-5.74
2402	1.0	ePA	0	3.36	8.0	-4.64
2440	1.0	ePA	19	4.14	8.0	-3.86
2480	1.0	ePA	39	3.24	8.0	-4.76
2402	1.0	iPA	0	-8.34	8.0	-16.34
2440	1.0	iPA	19	-7.90	8.0	-15.90
2480	1.0	iPA	39	-8.02	8.0	-16.02
2404	2.0	ePA	1	0.75	8.0	-7.25
2440	2.0	ePA	19	0.89	8.0	-7.11
2478	2.0	ePA	38	0.95	8.0	-7.05
2404	2.0	iPA	1	-11.23	8.0	-19.23
2440	2.0	iPA	19	-10.71	8.0	-18.71
2478	2.0	iPA	38	-10.64	8.0	-18.64

Table 7-12. Conducted Power Density Measurements Antenna 3a

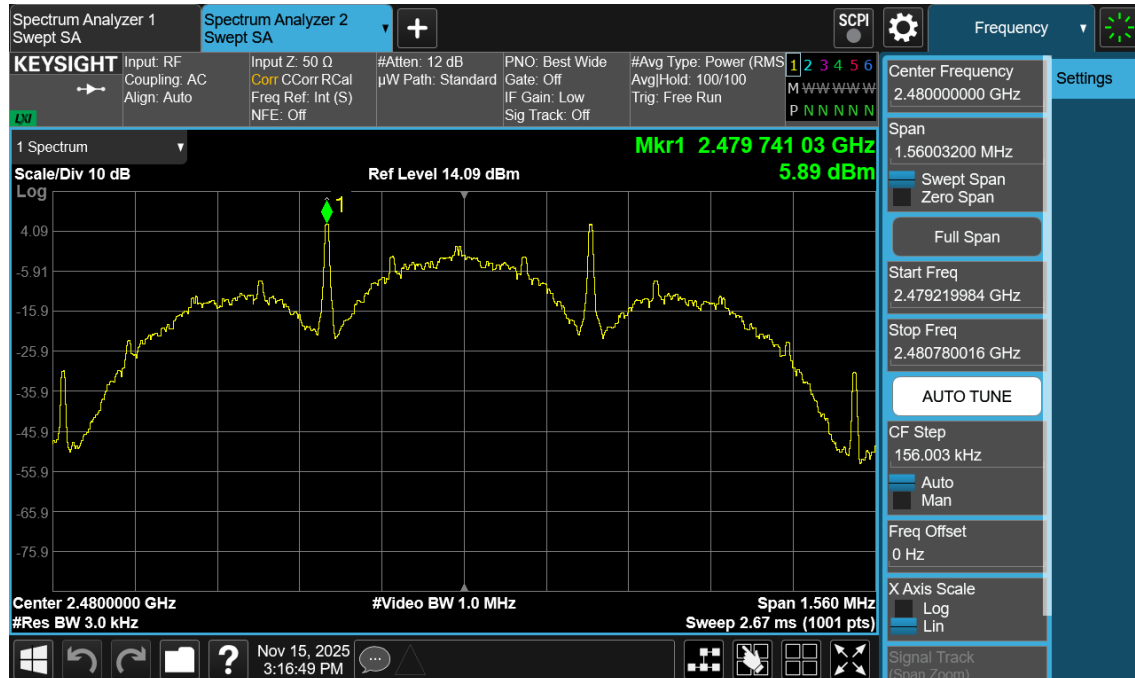
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Plot 7-51. Power Spectral Density Plot Antenna 3a (Bluetooth (LE), 125kbps, ePA – Ch. 39)



Plot 7-52. Power Spectral Density Plot Antenna 3a (Bluetooth (LE), 125kbps, iPA – Ch. 0)

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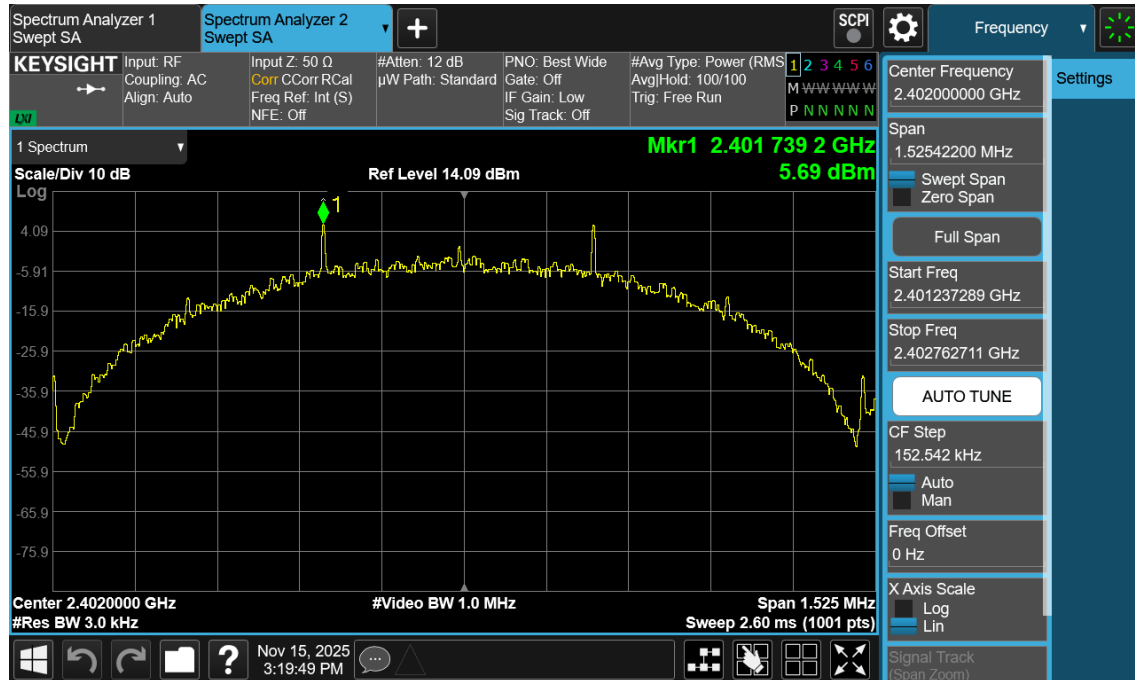
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Plot 7-55. Power Spectral Density Plot Antenna 3a (Bluetooth (LE), 500kbps, ePA – Ch. 0)



Plot 7-56. Power Spectral Density Plot Antenna 3a (Bluetooth (LE), 500kbps, ePA – Ch. 19)

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