

MEASUREMENT REPORT
FCC PART 15.247 / ISED RSS-247 802.15.4

Applicant Name:

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

Date of Testing:

1/8/2024 - 3/14/2024

Test Report Issue Date:

4/1/2024

Test Site/Location:

Element Materials Technology Morgan Hill, CA, USA

Test Report Serial No.:

1C2311270067-16.BCG

FCC ID:	BCGA2836
IC:	579C-A2836
APPLICANT:	Apple Inc.

Application Type:

Certification

Model/HVIN:

A2836

EUT Type:

Tablet Device

Max. RF Output Power:

125.516 mW (20.99 dBm) Peak Conducted

Frequency Range:

2405 – 2475MHz

FCC Classification:

Digital Transmission System (DTS)

FCC Rule Part(s):

Part 15 Subpart C (15.247)

ISED Specification:

RSS-247 Issue 3

Test Procedure(s):

ANSI C63.10-2013, 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 C63.10-2013 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

Prepared by: WKR0000005913

Reviewed by: WKR0000005805



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1.0 INTRODUCTION

1.1 Scope

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

1.2 Element Materials Technology Test Location

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

1.3 Test Facility / Accreditations

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

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

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Apple Tablet Device FCC ID: BCGA2836 and IC: 579C-A2836**. The data found in this test report was taken with the EUT operating in 802.15.4 mode.

Test Device Serial No.: W2LTQY6JJQ, LW67JM4HC9, FN9XGJD7TM, DLXH160000W000065V, DLXH190000C000065W

2.2 Device Capabilities

This device contains the following capabilities:

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

This device supports BT Beamforming.

Ch.	Frequency (MHz)
11	2405
:	:
18	2440
:	:
25	2475

Table 2-1. 802.15.4 Frequency / Channel Operations

Note:

This device is capable of operating in 15 channels and a channel separation of 5MHz, spanning from 2405MHz to 2475MHz.

Measured Duty Cycles				
Thread Mode	Frequency (GHz)	Duty Cycle [%]		
		Antenna WF8	Antenna WF7	Antenna WF9
802.15.4	2405 - 2475	100.0	100.0	100.0

Table 2-2. Measured Duty Cycles

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This device supports simultaneous multi radio transmission feature, which allows multiple radios to transmit simultaneously at the same antenna. The table below shows all the possible multi radio TX combinations:

Antenna	Simultaneous Tx Config	Wifi 2GHz	Bluetooth	Thread	Wifi 5GHz	Wifi 6GHz	NB UNII
		802.11 b/g/n/ax	BDR, EDR, HDR4/8, LE1/2M	802.15.4	802.11 a/n/ac/ax	802.11 a/ax	BDR, HDR4/8
WF8	Config 1	✓	✗	✗	✗	✗	✓
WF8	Config 2	✗	✓	✗	✓	✗	✗
WF8	Config 3	✗	✓	✗	✗	✓	✗
WF8	Config 4	✗	✗	✓	✓	✗	✗
WF8	Config 5	✗	✗	✓	✗	✓	✗
WF7	Config 6	✓	✗	✗	✗	✗	✓
WF7	Config 7	✗	✓	✗	✓	✗	✗
WF7	Config 8	✗	✓	✗	✗	✓	✗
WF7	Config 9	✗	✗	✓	✓	✗	✗
WF7	Config 10	✗	✗	✓	✗	✓	✗

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 2 and reported in RF UNII and RF Bluetooth test reports.

Specific 2.4GHz Wi-Fi antenna that can only transmit simultaneously with 2.4GHz Bluetooth antenna is listed in the SAR test report. For BT (2.4GHz) in connected mode and Wi-Fi (2.4GHz) - Wi-Fi max power will not exceed minimum of (13.5dBm, SAR max cap, Reg max cap) power. For BT (2.4GHz) in disconnected mode and Wi-Fi (2.4GHz) - BT will be using iPA only and Wi-Fi max power will not exceed minimum of (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 antenna gain provided by the manufacturer was used for testing.

Frequency (GHz)	Antenna Gain (dBi)		
	Antenna WF8	Antenna WF7	Antenna WF9
2405 - 2475	3.5	3.00	1.50

Table 2-4. Highest Antenna Gain

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2.4 Test Support Equipment

1	Apple MacBook Pro	Model:	A2141	S/N:	C02H604EQ05D
	w/AC/DC Adapter	Model:	A2166	S/N:	C4H042705ZNP0WA6
2	Apple USB-C Cable	Model:	Spartan	S/N:	GXK1336018XKTR024
3	USB-C Cable	Model:	A246C	S/N:	DWH80115BK826GV19
	w/ AC Adapter	Model:	A2305	S/N:	C4H95160004PF4F4V
4	DC Power Supply	Model:	KPS3010D	S/N:	N/A
5	Apple Pencil	Model:	A2538	S/N:	KJ26TCFXJW

Table 2-5. Test Support Equipment List

2.5 Test Configuration

The EUT was tested per the guidance of ANSI C63.10-2013 and KDB 558074 D01 v05r02. ANSI C63.10-2013 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 emissions and radiated emissions below 1GHz, the following configuration was investigated and 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 21E8197 installed on the EUT.

2.7 EMI Suppression Device(s)/Modifications

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

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3.0 DESCRIPTION OF TESTS

3.1 Evaluation Procedure

The measurement procedures described in the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices (ANSI C63.10-2013) 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 that 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, 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 two orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions.

3.4 Environmental Conditions

The temperature is controlled within range of 15°C to 35°C. The relative humidity is controlled within range of 10% to 75%. The atmospheric pressure is monitored within the range 86-106kPa (860-1060mbar).

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4.0 ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.”

- The antenna(s) of the EUT are **permanently attached**.
- There are no provisions for connection to an external antenna.

Conclusion:

The EUT complies with the requirement of §15.203.

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5.0 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.23-2012. All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95% level of confidence. The measurement uncertainty shown below meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Contribution	Expanded Uncertainty (\pm dB)
Conducted Bench Top Measurements	2.07
Line Conducted Disturbance	1.91
Radiated Disturbance (<30MHz)	4.12
Radiated Disturbance (30MHz - 1GHz)	4.85
Radiated Disturbance (1 - 18GHz)	5.08
Radiated Disturbance (>18GHz)	4.59

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6.0 TEST EQUIPMENT CALIBRATION DATA

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST). Measurements antennas used during testing were calibrated in accordance to the requirements of ANSI C63.5-2017.

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent Technologies	N9030A	3Hz-44GHz PXA Signal Analyzer	6/21/2023	Annual	6/21/2024	MY49430244
Anritsu	ML2496A	Power Meter	4/4/2023	Annual	4/4/2024	1840005
Anritsu	MA2411B	Pulse Power Sensor	8/22/2023	Annual	8/22/2024	1726262
Anritsu	MA2411B	Pulse Power Sensor	4/5/2023	Annual	4/5/2024	1726261
ETS-Lindgren	3117	Double Ridged Guide Antenna (1-18 GHz)	3/30/2023	Annual	3/30/2024	00218555
Keysight Technology	N9040B	UXA Signal Analyzer	3/10/2023	Annual	3/10/2024	MY57212015
Rohde & Schwarz	TS-PR18	Pre-Amplifier (1GHz - 18GHz)	8/31/2023	Annual	8/31/2024	100052
Rohde & Schwarz	FSV40	Signal Analyzer (10Hz-40GHz)	5/11/2023	Annual	5/11/2024	101619
Rohde & Schwarz	ESW44	EMI Test Receiver	6/6/2023	Annual	6/6/2024	101668
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz - 8GHz)	6/22/2023	Annual	6/22/2024	102356
Rohde & Schwarz	TS-PR1840	Pre-Amplifier (18GHz - 40GHz)	6/2/2023	Annual	6/2/2024	100050
Rohde & Schwarz	HFH2-Z2	Loop Antenna	5/1/2023	Annual	5/1/2024	100519
Rohde & Schwarz	ENV216	Two-Line V-Network	6/8/2023	Annual	6/8/2024	192052
Schwarzbeck	VULB 9162	Bilog Antenna (30MHz - 6GHz)	4/17/2023	Annual	4/17/2024	00304

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.

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7.0 TEST RESULTS

7.1 Summary

Company Name: Apple Inc.
 FCC ID: BCGA2836
 IC: 579C-A2836
 FCC Classification: Digital Transmission System (DTS)
 Number of Channels: 15

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		PASS	Section 7.2
15.247(b)(3)	RSS-247 [5.4(d)]	Transmitter Output Power	< 1 Watt		PASS	Sections 7.3
15.247(e)	RSS-247 [5.2]	Transmitter Power Spectral Density	< 8dBm / 3kHz Band		PASS	Section 7.4
15.247(d)	RSS-247 [5.5]	Band Edge / Out-of-Band Emissions	≥ 20dBc		PASS	Sections 7.5, 7.6
15.205 15.209	RSS-Gen [8.9]	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209 (RSS-Gen [8.9])	RADIATED	PASS	Sections 7.7, 7.8
15.207	RSS-Gen [8.8]	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.207 limits (RSS-Gen[8.8])	AC LINE CONDUCTED	PASS	Section 7.9

Table 7-1. Summary of Test Results

Notes:

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 “BT Automation,” Version 4.0.
5. For radiated band edge, 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 3.0.0

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7.2 6dB & 99% 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 C63.10-2013 – Section 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 ≥ 3 x 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 power schemes were investigated and only the worse case is reported.

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7.2.1 Antenna WF8 6dB BW & 99% OBW

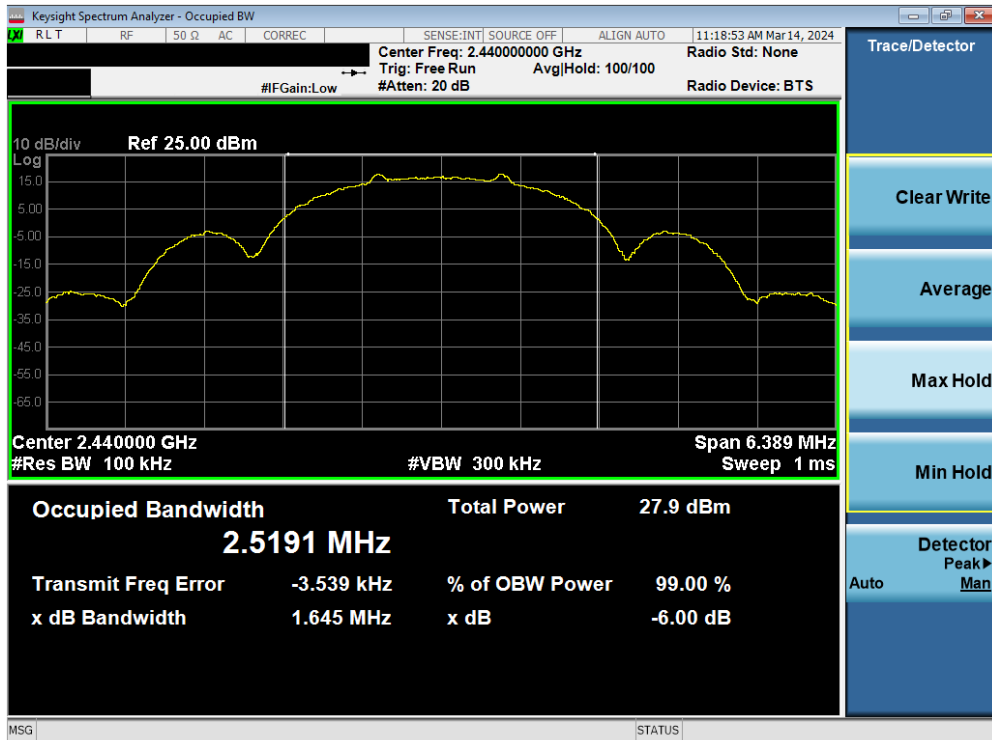
Frequency [MHz]	Data Rate [Kbps]	Power Scheme	Channel	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass/Fail
2405	250.0	ePA	11	2.52	1.65	0.50	Pass
2440	250.0	ePA	18	2.52	1.65	0.50	Pass
2475	250.0	ePA	25	2.52	1.65	0.50	Pass

Table 7-2. Conducted Bandwidth Measurements

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-16.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 15 of 79



Plot 7-1. 6dB BW & 99% OBW Antenna WF8 (802.15.4, Ch. 11)



Plot 7-2. 6dB BW & 99% OBW Antenna WF8 (802.15.4, Ch. 18)

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-16.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 16 of 79



Plot 7-3. 6dB BW & 99% OBW Antenna WF8 (802.15.4, Ch. 25)

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-16.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 17 of 79

7.2.2 Antenna WF7 6dB BW & 99% OBW

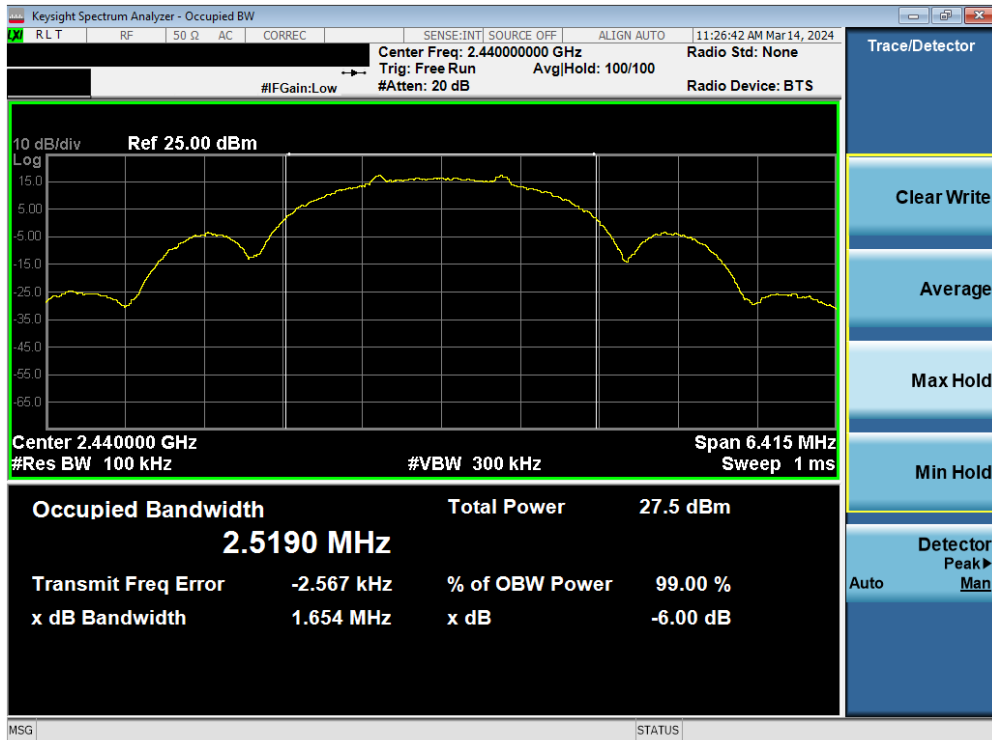
Frequency [MHz]	Data Rate [Kbps]	Power Scheme	Channel	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass/Fail
2405	250.0	ePA	11	2.52	1.64	0.50	Pass
2440	250.0	ePA	18	2.52	1.65	0.50	Pass
2475	250.0	ePA	25	2.52	1.66	0.50	Pass

Table 7-3. Conducted Bandwidth Measurements

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-16.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 18 of 79

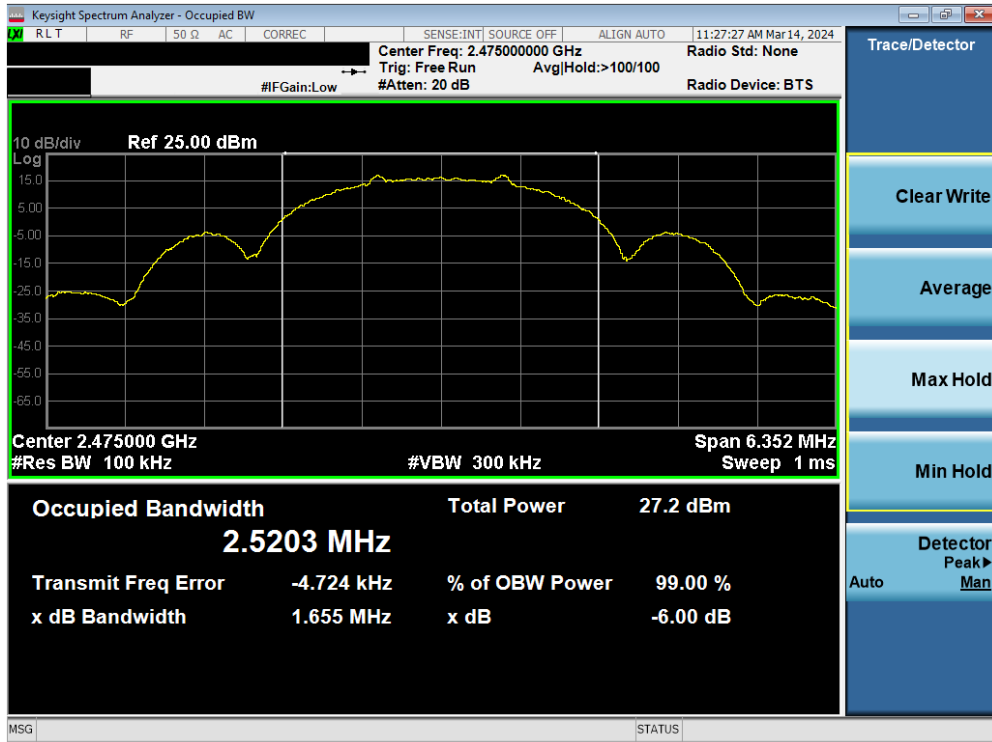


Plot 7-4. 6dB BW & 99% OBW Antenna WF7 (802.15.4, Ch. 11)



Plot 7-5. 6dB BW & 99% OBW Antenna WF7 (802.15.4, Ch. 18)

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-16.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 19 of 79



Plot 7-6. 6dB BW & 99% OBW Antenna WF7 (802.15.4, Ch. 25)

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-16.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 20 of 79

7.2.3 Antenna WF9 6dB BW & 99% OBW

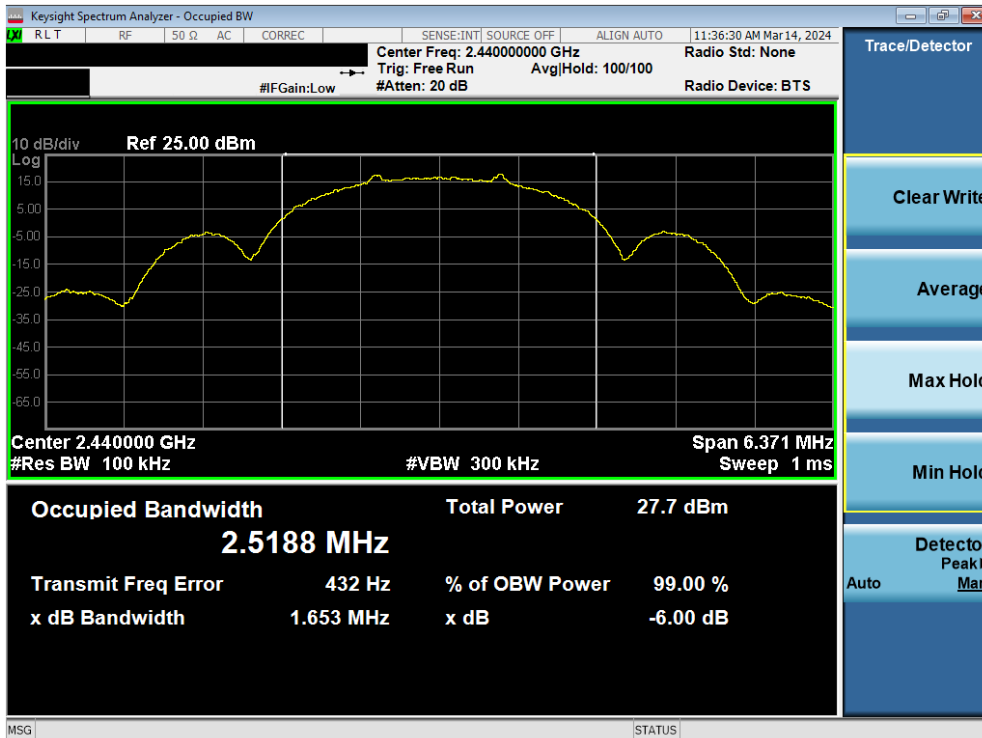
Frequency [MHz]	Data Rate [Kbps]	Power Scheme	Channel	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass/Fail
2405	250.0	ePA	11	2.52	1.65	0.50	Pass
2440	250.0	ePA	18	2.52	1.65	0.50	Pass
2475	250.0	ePA	25	2.52	1.64	0.50	Pass

Table 7-4. Conducted Bandwidth Measurements

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-16.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 21 of 79



Plot 7-7. 6dB BW & 99% OBW Antenna WF9 (802.15.4, Ch. 11)



Plot 7-8. 6dB BW & 99% OBW Antenna WF9 (802.15.4, Ch. 18)

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-16.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 22 of 79



Plot 7-9. 6dB BW & 99% OBW Antenna WF9(802.15.4, Ch. 25)

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-16.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 23 of 79

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.

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 C63.10-2013 – Subclause 11.9.1.3
 ANSI C63.10-2013 – Subclause 11.9.2.3.2
 KDB 558074 D01 v05r02 – Section 8.3.1.3, 8.3.2.3

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

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.3.1 Peak Output Power Measurement

Frequency [MHz]	Modulation	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]						
2405	O-QPSK	ePA	11	15.50	35.514	30.00	-14.50	3.50	19.00	36.02	-17.02
2440	O-QPSK	ePA	18	15.73	37.428	30.00	-14.27	3.50	19.23	36.02	-16.79
2475	O-QPSK	ePA	25	15.93	39.165	30.00	-14.07	3.50	19.43	36.02	-16.59
2405	O-QPSK	iPA	11	12.35	17.179	30.00	-17.65	3.50	15.85	36.02	-20.17
2440	O-QPSK	iPA	18	12.41	17.422	30.00	-17.59	3.50	15.91	36.02	-20.11
2475	O-QPSK	iPA	25	12.24	16.730	30.00	-17.77	3.50	15.74	36.02	-20.29

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

Frequency [MHz]	Modulation	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]						
2405	O-QPSK	ePA	11	14.35	27.227	30.00	-15.65	3.00	17.35	36.02	-18.67
2440	O-QPSK	ePA	18	14.20	26.309	30.00	-15.80	3.00	17.20	36.02	-18.82
2475	O-QPSK	ePA	25	14.39	27.492	30.00	-15.61	3.00	17.39	36.02	-18.63
2405	O-QPSK	iPA	11	12.18	16.512	30.00	-17.82	3.00	15.18	36.02	-20.84
2440	O-QPSK	iPA	18	12.08	16.140	30.00	-17.92	3.00	15.08	36.02	-20.94
2475	O-QPSK	iPA	25	12.87	19.342	30.00	-17.14	3.00	15.87	36.02	-20.16

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

Frequency [MHz]	Modulation	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]						
2405	O-QPSK	ePA	11	20.99	125.516	30.00	-9.01	1.50	22.49	36.02	-13.53
2440	O-QPSK	ePA	18	20.57	114.130	30.00	-9.43	1.50	22.07	36.02	-13.95
2475	O-QPSK	ePA	25	20.50	112.305	30.00	-9.50	1.50	22.00	36.02	-14.02
2405	O-QPSK	iPA	11	12.19	16.554	30.00	-17.81	1.50	13.69	36.02	-22.33
2440	O-QPSK	iPA	18	12.31	17.006	30.00	-17.69	1.50	13.81	36.02	-22.21
2475	O-QPSK	iPA	25	12.24	16.757	30.00	-17.76	1.50	13.74	36.02	-22.28

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

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.3.2 Average Output Power Measurement

Frequency [MHz]	Modulation	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]						
2405	O-QPSK	ePA	11	14.48	28.067	30.00	-15.52	3.50	17.98	36.02	-18.04
2440	O-QPSK	ePA	18	14.72	29.614	30.00	-15.29	3.50	18.22	36.02	-17.81
2475	O-QPSK	ePA	25	14.91	30.981	30.00	-15.09	3.50	18.41	36.02	-17.61
2405	O-QPSK	iPA	11	11.90	15.495	30.00	-18.10	3.50	15.40	36.02	-20.62
2440	O-QPSK	iPA	18	12.00	15.849	30.00	-18.00	3.50	15.50	36.02	-20.52
2475	O-QPSK	iPA	25	11.84	15.290	30.00	-18.16	3.50	15.34	36.02	-20.68

Table 7-8. Average Conducted Output Power Measurements Antenna WF8

Frequency [MHz]	Modulation	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]						
2405	O-QPSK	ePA	11	13.47	22.208	30.00	-16.54	3.00	16.47	36.02	-19.56
2440	O-QPSK	ePA	18	13.33	21.513	30.00	-16.67	3.00	16.33	36.02	-19.69
2475	O-QPSK	ePA	25	13.50	22.387	30.00	-16.50	3.00	16.50	36.02	-19.52
2405	O-QPSK	iPA	11	11.76	15.011	30.00	-18.24	3.00	14.76	36.02	-21.26
2440	O-QPSK	iPA	18	11.70	14.791	30.00	-18.30	3.00	14.70	36.02	-21.32
2475	O-QPSK	iPA	25	12.00	15.849	30.00	-18.00	3.00	15.00	36.02	-21.02

Table 7-9. Average Conducted Output Power Measurements Antenna WF7

Frequency [MHz]	Modulation	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]						
2405	O-QPSK	ePA	11	20.00	100.000	30.00	-10.00	1.50	21.50	36.02	-14.52
2440	O-QPSK	ePA	18	19.64	92.024	30.00	-10.36	1.50	21.14	36.02	-14.88
2475	O-QPSK	ePA	25	19.56	90.261	30.00	-10.45	1.50	21.06	36.02	-14.97
2405	O-QPSK	iPA	11	11.77	15.024	30.00	-18.23	1.50	13.27	36.02	-22.75
2440	O-QPSK	iPA	18	11.93	15.578	30.00	-18.08	1.50	13.43	36.02	-22.60
2475	O-QPSK	iPA	25	11.87	15.389	30.00	-18.13	1.50	13.37	36.02	-22.65

Table 7-10. Average Conducted Output Power Measurements Antenna WF9

Sample e.i.r.p. Calculation:

At 2405MHz, the average conducted output power was calculated to be 20.00 dBm with antenna gain of 1.50 dBi.

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

$$20.00 \text{ dBm} + 1.50 \text{ dBi} = 21.50 \text{ dBm}$$

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7.4 Power Spectral Density

§15.247(e); RSS-247 [5.2]

Test Overview and Limit

The peak power density is measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power and at the appropriate frequencies.

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

Test Procedure Used

ANSI C63.10-2013 – Section 11.10.2 Method PKPSD

KDB 558074 D01 v05r02 – Section 8.4 DTS Maximum Power Spectral Density level in the fundamental emission

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 = 1MHz
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: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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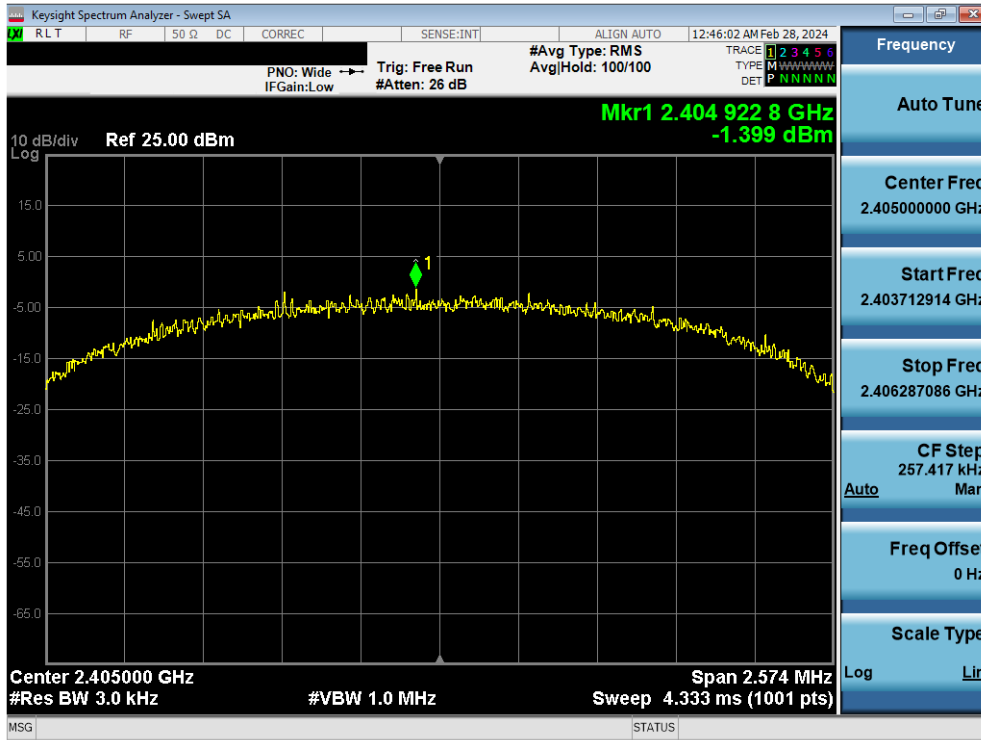
V 10.5 12/15/2021

7.4.1 Antenna WF8 Power Spectral Density Measurements

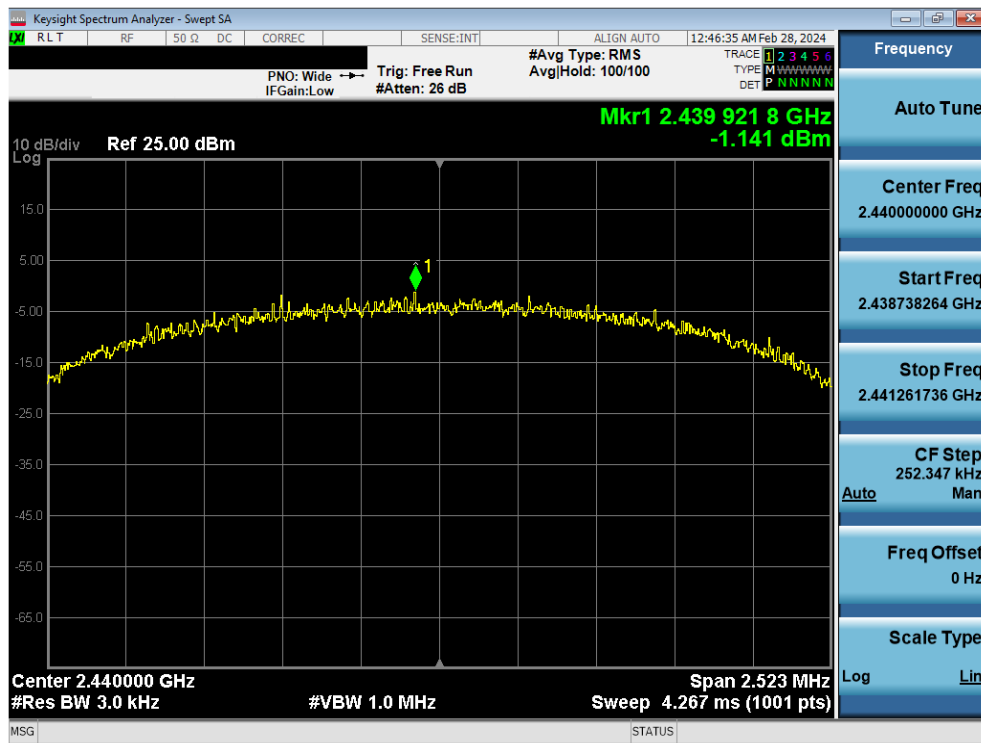
Frequency [MHz]	Modulation	Power Scheme	Channel No.	Measured Power Density [dBm/3kHz]	Max Power Density [dBm/3kHz]	Margin [dB]	Pass/Fail
2405	O-QPSK	ePA	11	-1.40	8.0	-9.40	Pass
2440	O-QPSK	ePA	18	-1.14	8.0	-9.14	Pass
2475	O-QPSK	ePA	25	-0.94	8.0	-8.94	Pass
2405	O-QPSK	iPA	11	-3.63	8.0	-11.63	Pass
2440	O-QPSK	iPA	18	-3.48	8.0	-11.48	Pass
2475	O-QPSK	iPA	25	-3.33	8.0	-11.33	Pass

Table 7-11. Power Density Measurements

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2311270067-16.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device		Page 28 of 79

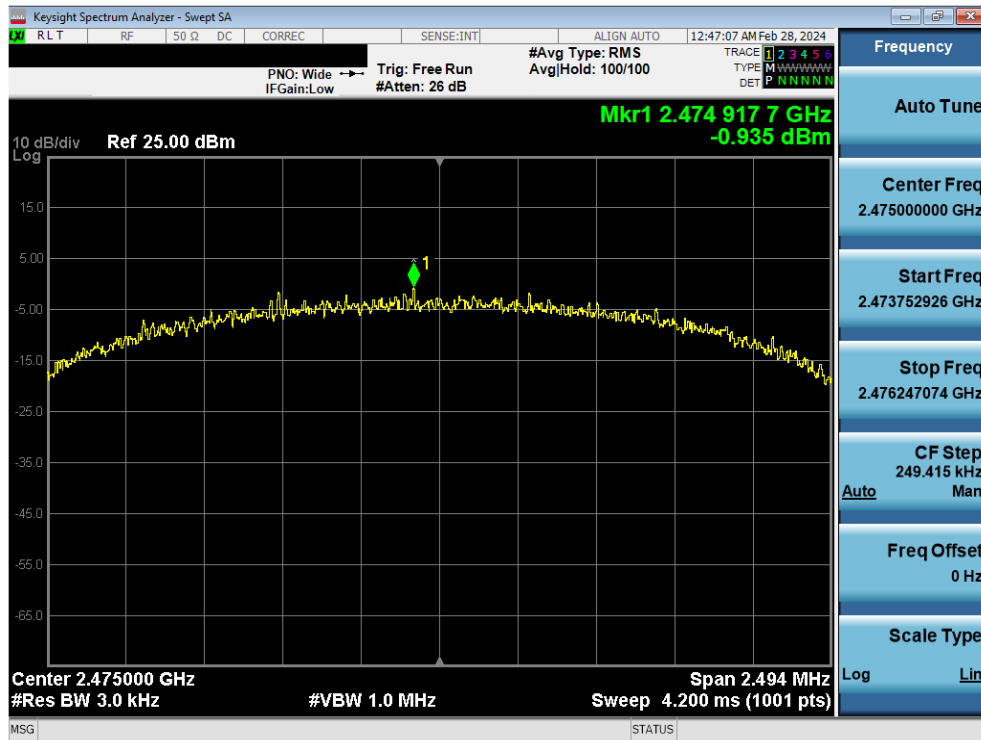


Plot 7-10. Power Spectral Density Antenna WF8 (802.15.4, ePA – Ch. 11)

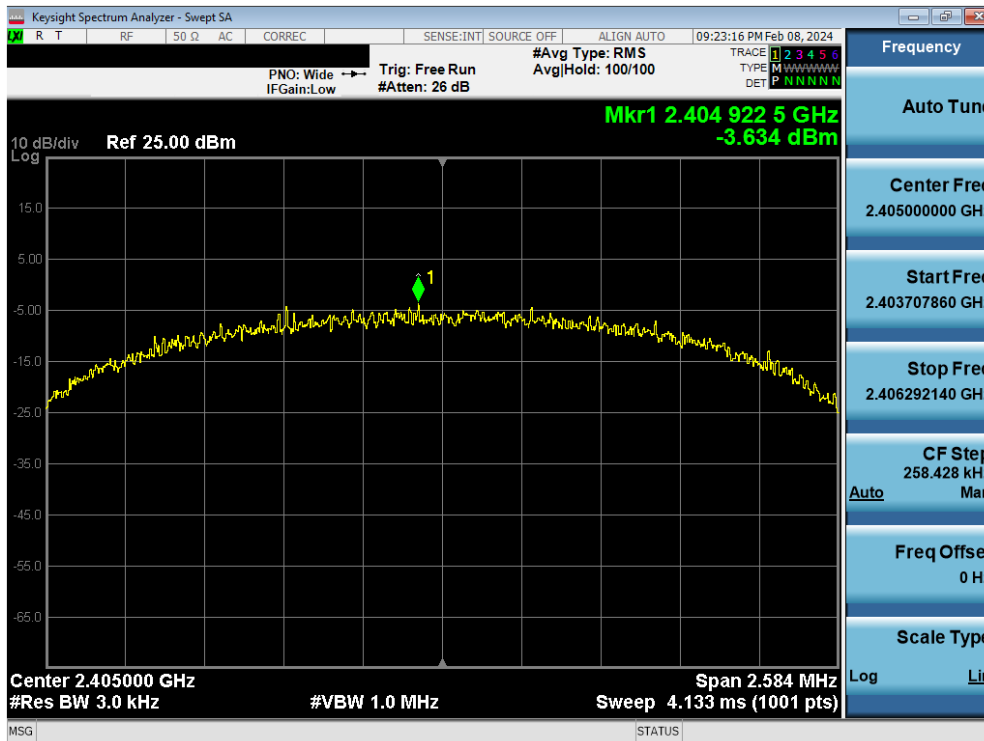


Plot 7-11. Power Spectral Density Antenna WF8 (802.15.4, ePA – Ch. 18)

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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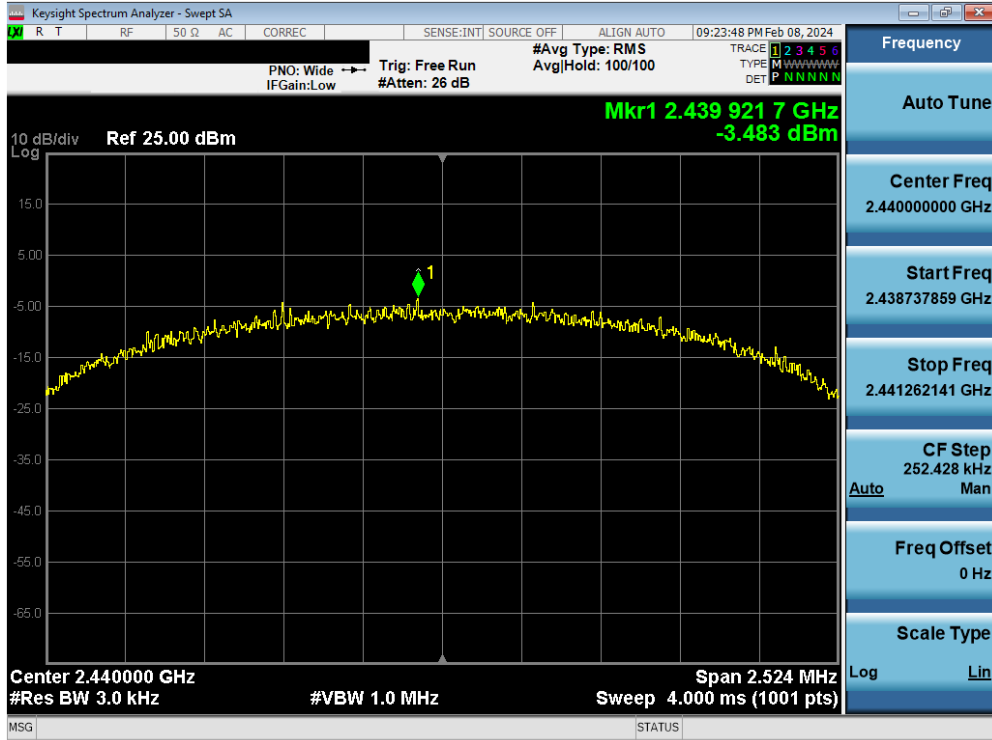


Plot 7-12. Power Spectral Density Antenna WF8 (802.15.4, ePA – Ch. 25)

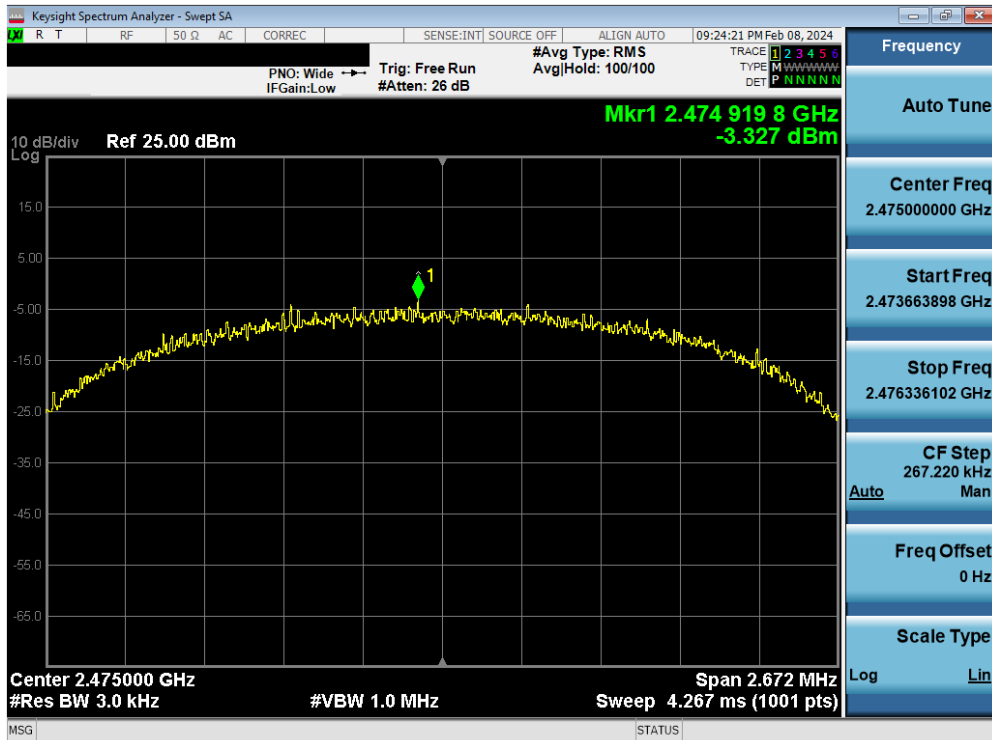


Plot 7-13. Power Spectral Density Antenna WF8 (802.15.4, iPA – Ch. 11)

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-14. Power Spectral Density Antenna WF8 (802.15.4, iPA – Ch. 18)



Plot 7-15. Power Spectral Density Antenna WF8 (802.15.4, iPA – Ch. 25)

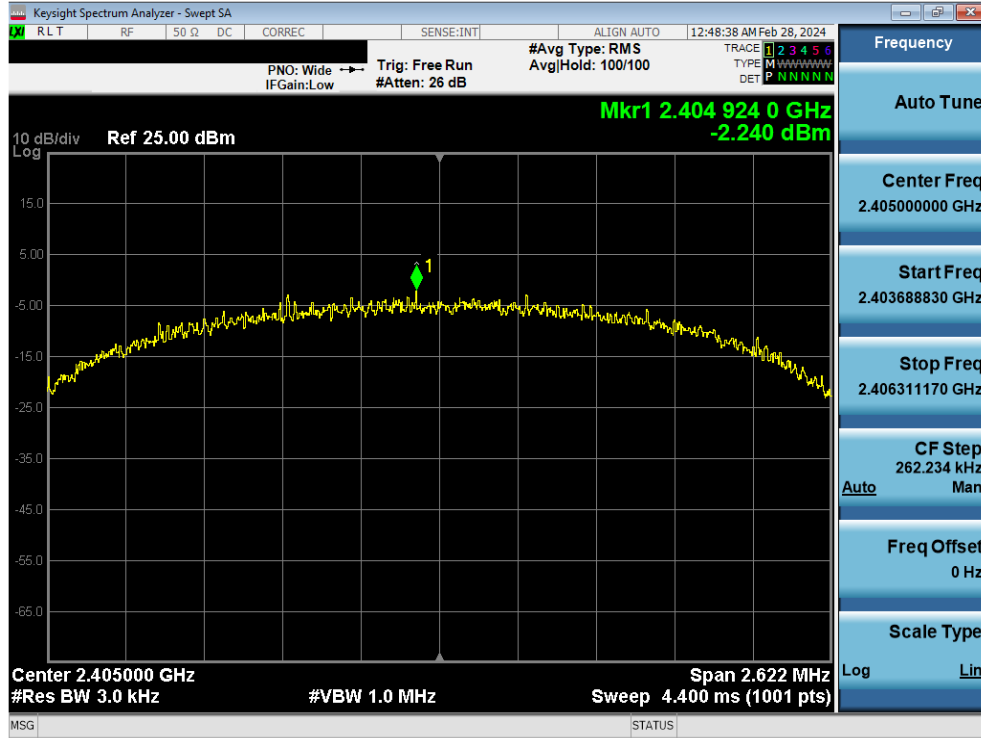
FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-16.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 31 of 79

7.4.2 Antenna WF7 Power Spectral Density Measurements

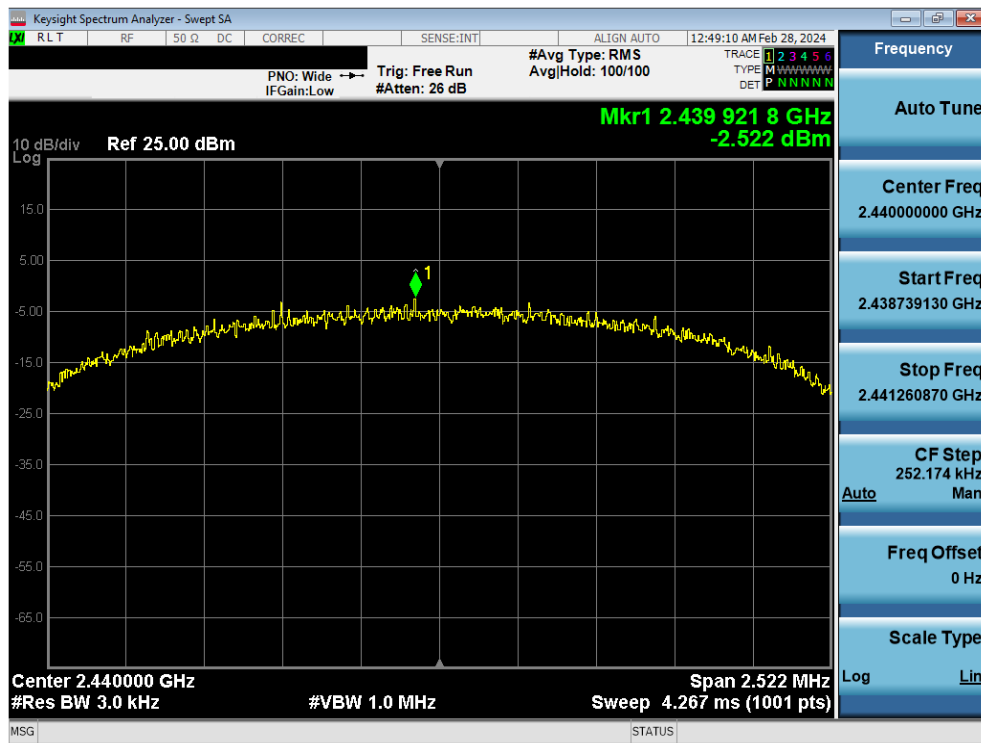
Frequency [MHz]	Modulation	Power Scheme	Channel No.	Measured Power Density [dBm/3kHz]	Max Power Density [dBm/3kHz]	Margin [dB]	Pass/Fail
2405	O-QPSK	ePA	11	-2.24	8.0	-10.24	Pass
2440	O-QPSK	ePA	18	-2.52	8.0	-10.52	Pass
2475	O-QPSK	ePA	25	-2.35	8.0	-10.35	Pass
2405	O-QPSK	iPA	11	-3.88	8.0	-11.88	Pass
2440	O-QPSK	iPA	18	-3.73	8.0	-11.73	Pass
2475	O-QPSK	iPA	25	-3.28	8.0	-11.28	Pass

Table 7-12. Power Density Measurements

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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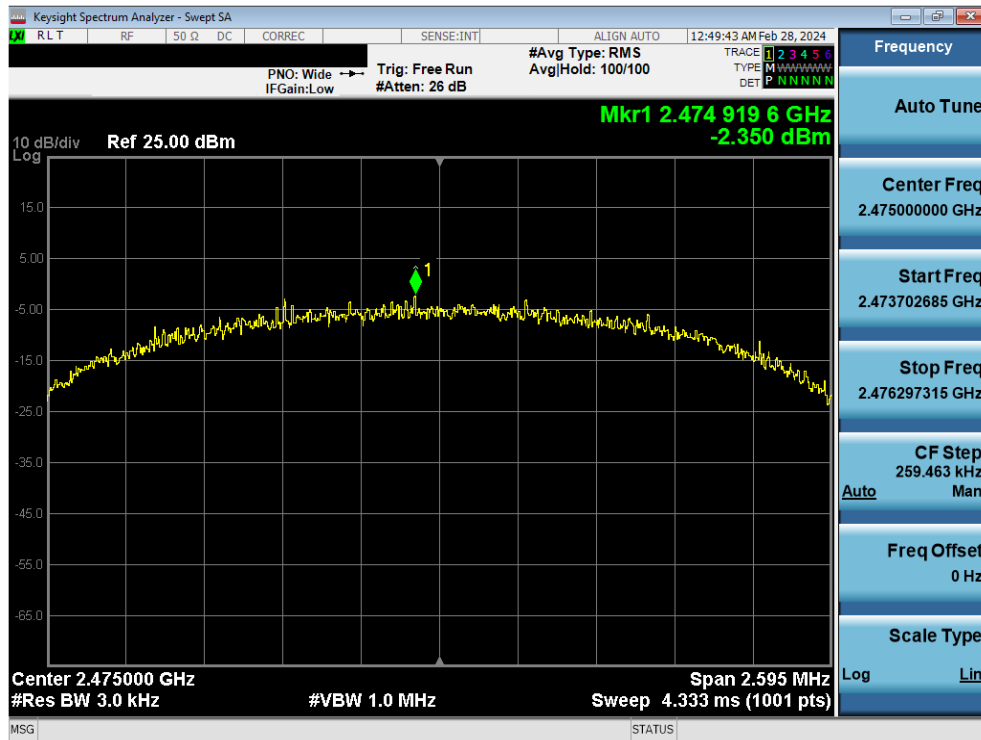


Plot 7-16. Power Spectral Density Antenna WF7 (802.15.4, ePA – Ch. 11)

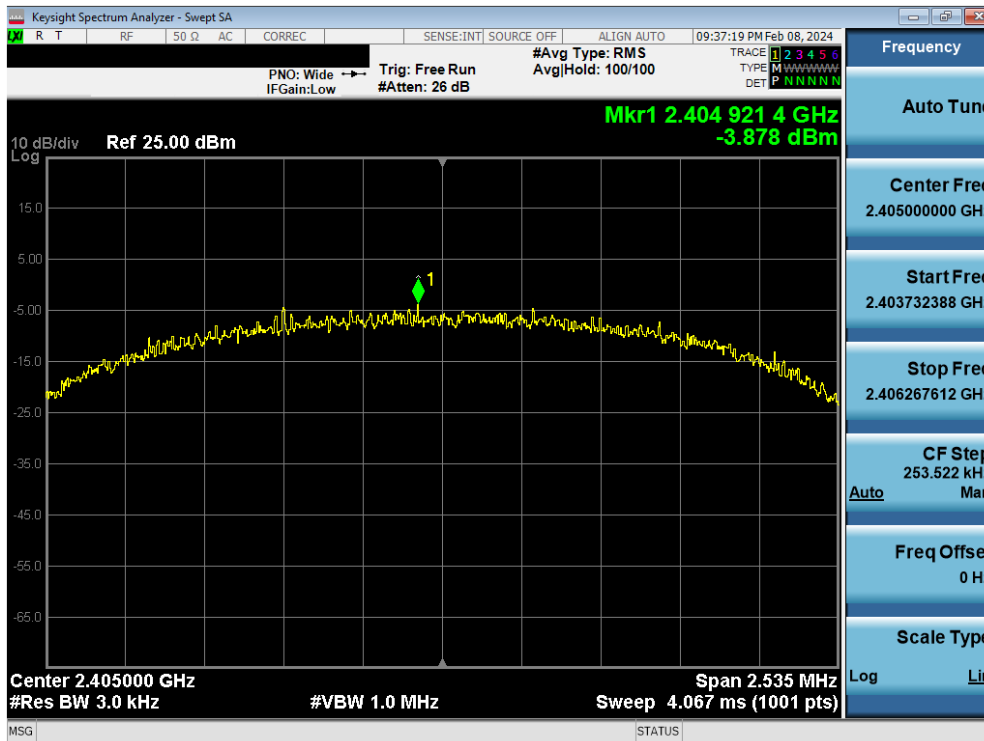


Plot 7-17. Power Spectral Density Antenna WF7 (802.15.4, ePA – Ch. 18)

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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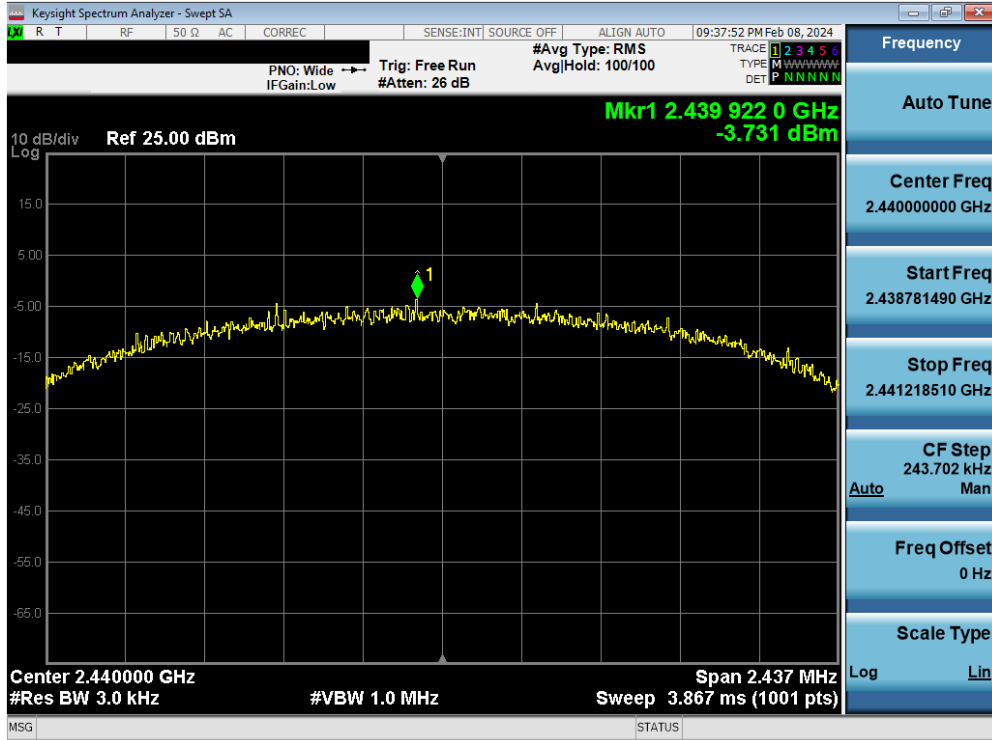


Plot 7-18. Power Spectral Density Antenna WF7 (802.15.4, ePA – Ch. 25)

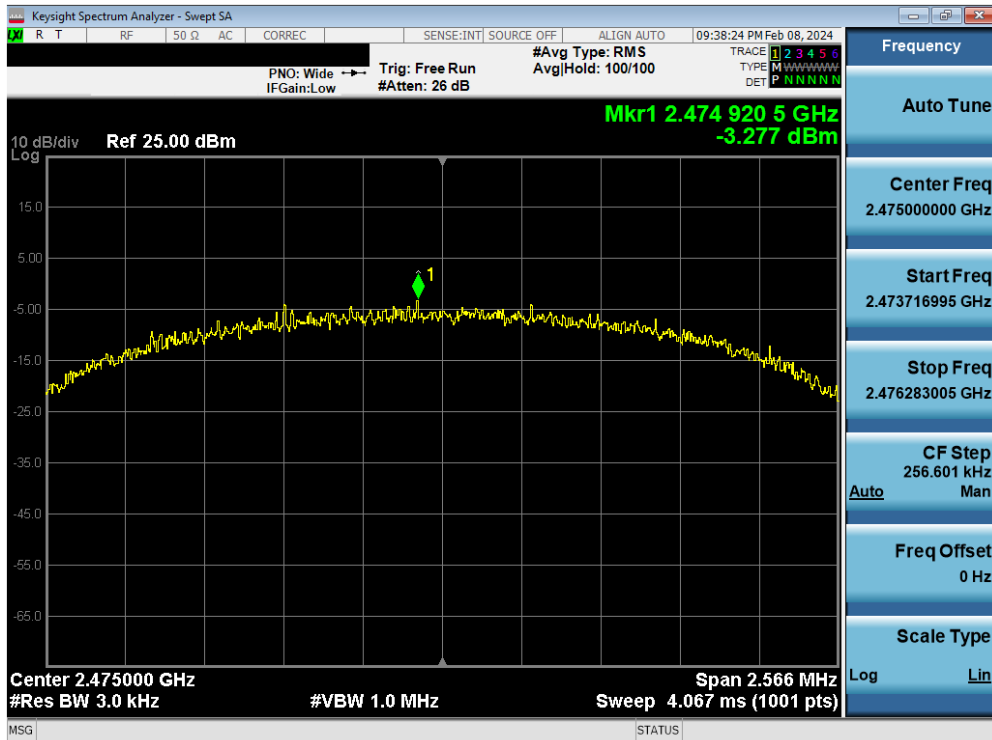


Plot 7-19. Power Spectral Density Antenna WF7 (802.15.4, iPA – Ch. 11)

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-20. Power Spectral Density Antenna WF7 (802.15.4, iPA – Ch. 18)



Plot 7-21. Power Spectral Density Antenna WF7 (802.15.4, iPA – Ch. 25)

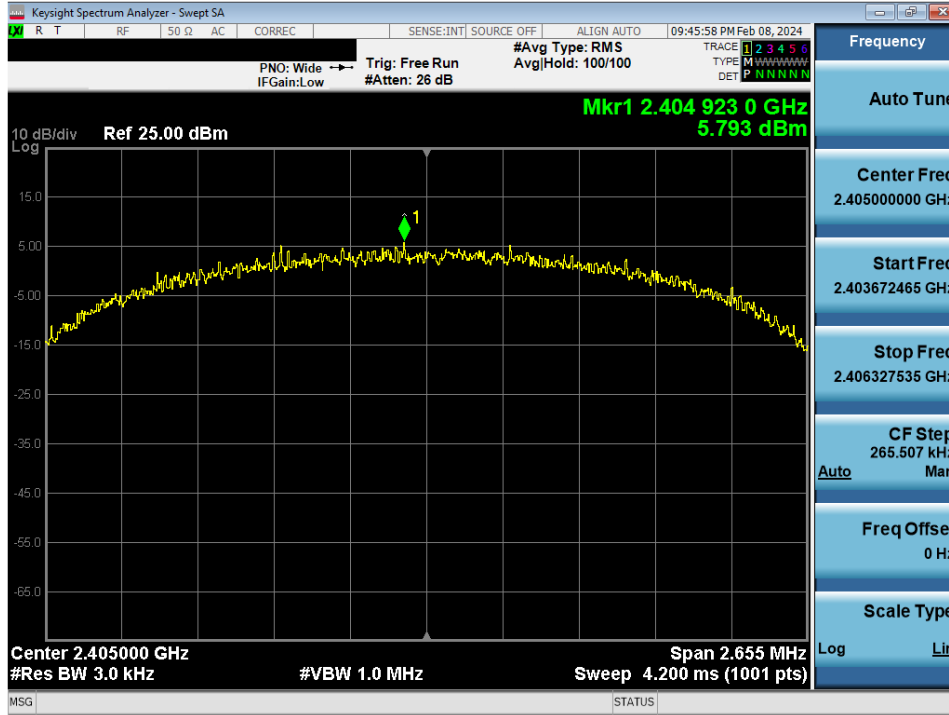
FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-16.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 35 of 79

7.4.3 Antenna WF9 Power Spectral Density Measurements

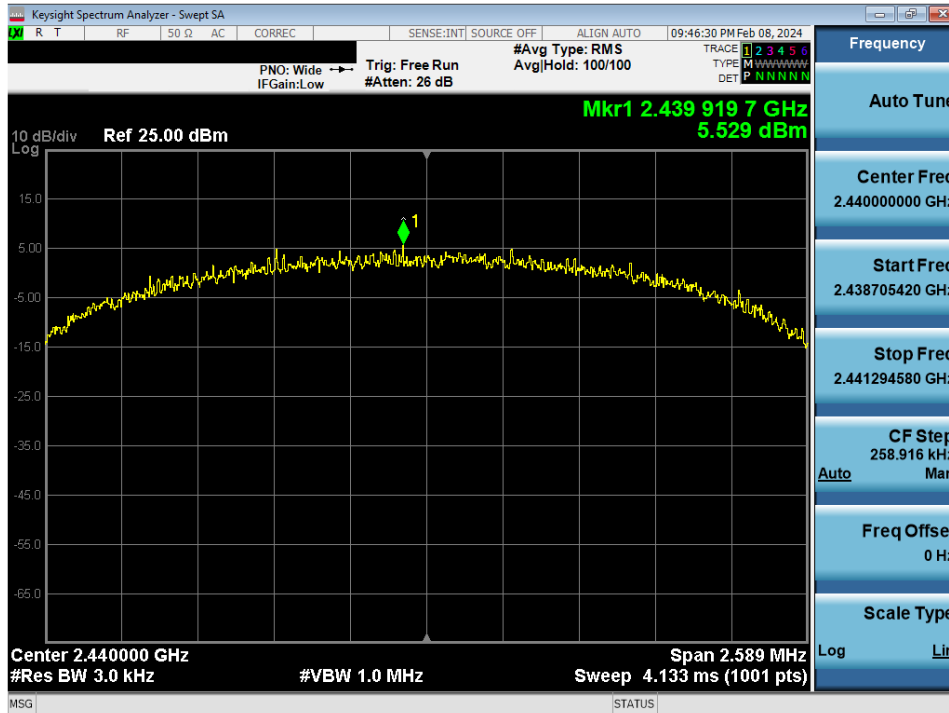
Frequency [MHz]	Modulation	Power Scheme	Channel No.	Measured Power Density [dBm/3kHz]	Max Power Density [dBm/3kHz]	Margin [dB]	Pass/Fail
2405	O-QPSK	ePA	11	5.79	8.0	-2.21	Pass
2440	O-QPSK	ePA	18	5.53	8.0	-2.47	Pass
2475	O-QPSK	ePA	25	5.53	8.0	-2.47	Pass
2405	O-QPSK	iPA	11	-3.50	8.0	-11.50	Pass
2440	O-QPSK	iPA	18	-3.51	8.0	-11.51	Pass
2475	O-QPSK	iPA	25	-3.58	8.0	-11.58	Pass

Table 7-13. Power Density Measurements

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-16.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 36 of 79

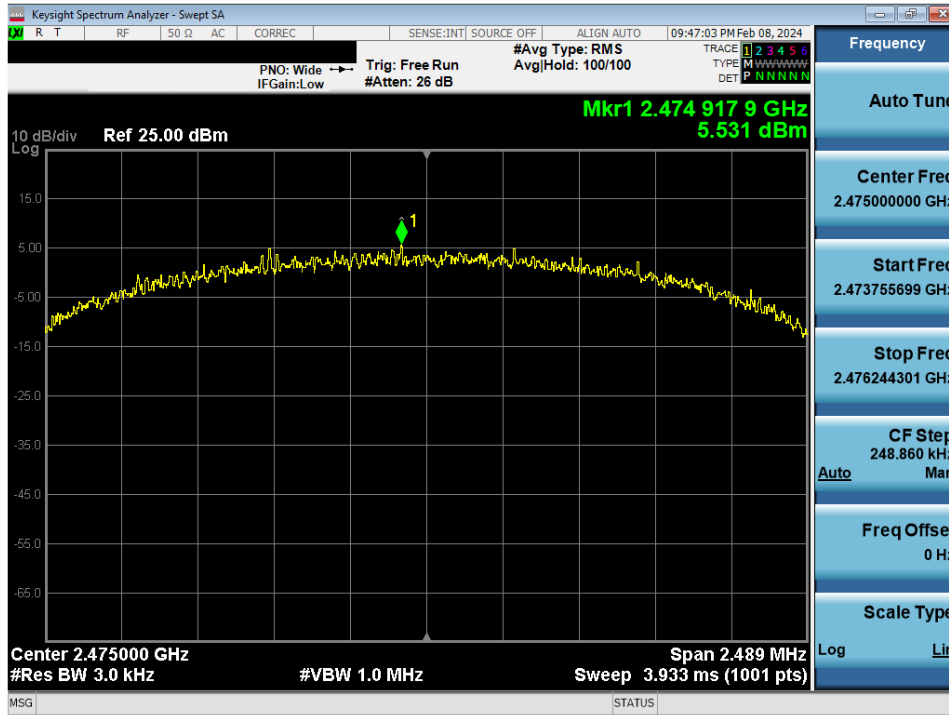


Plot 7-22. Power Spectral Density Antenna WF9 (802.15.4, ePA – Ch. 11)

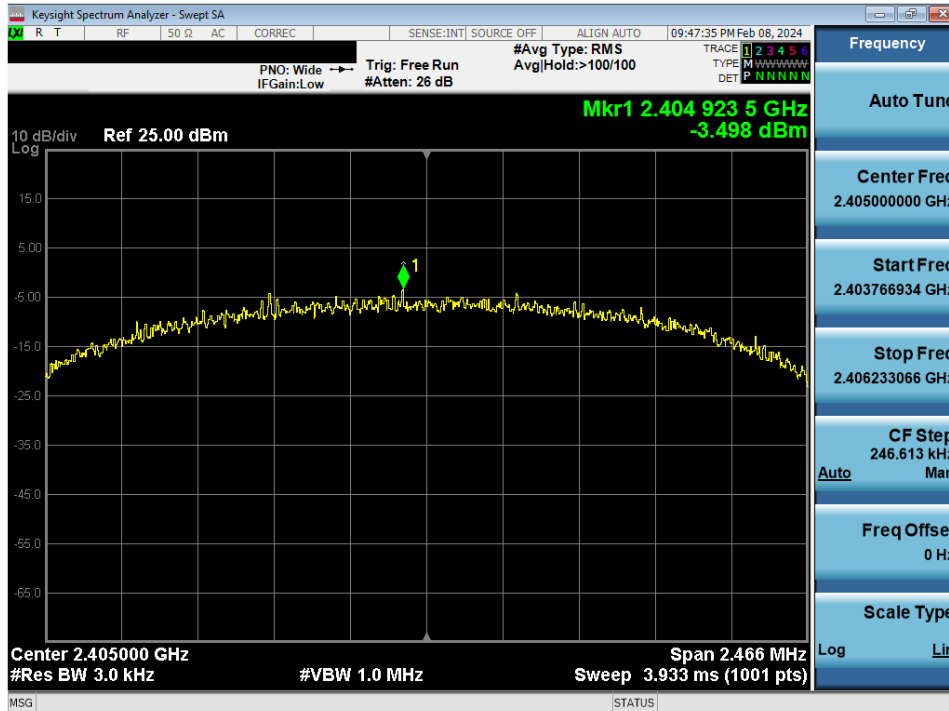


Plot 7-23. Power Spectral Density Antenna WF9 (802.15.4, ePA – Ch. 18)

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-16.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 37 of 79

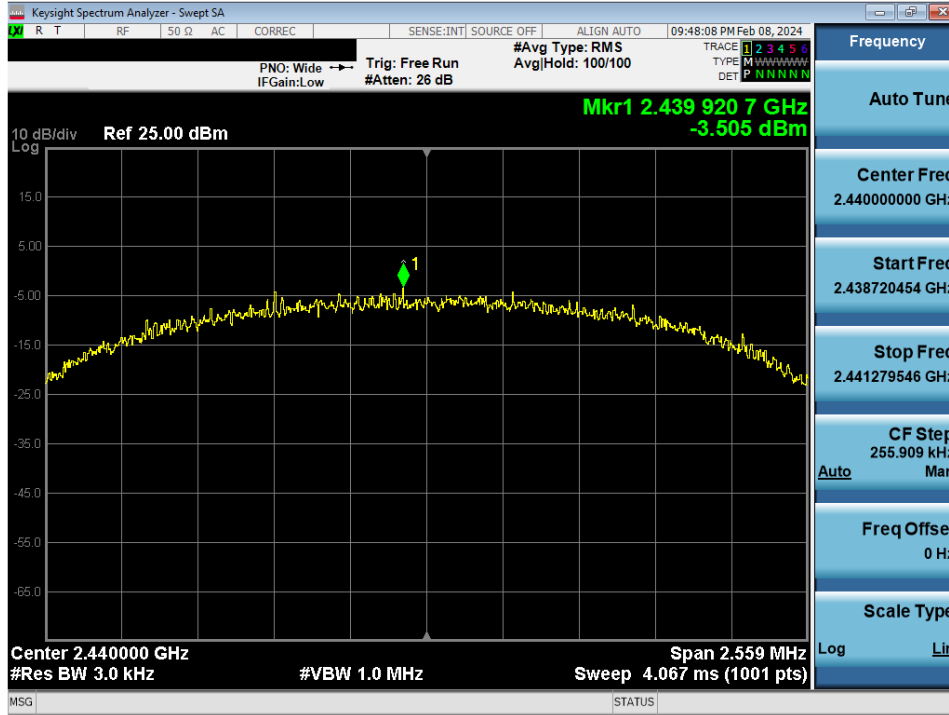


Plot 7-24. Power Spectral Density Antenna WF9 (802.15.4, ePA - Ch. 25)

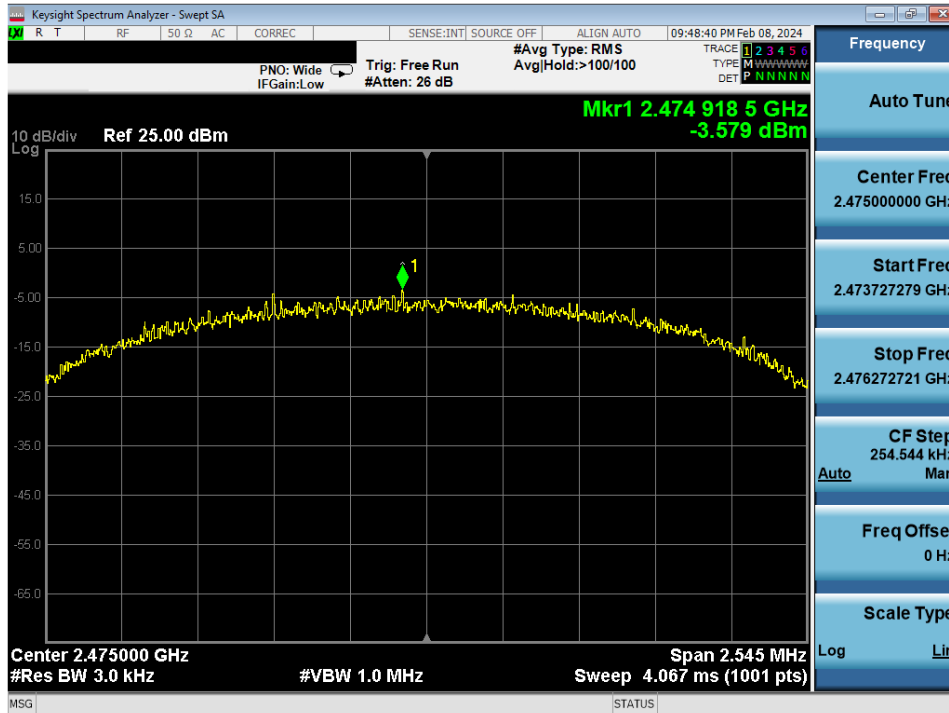


Plot 7-25. Power Spectral Density Antenna WF9 (802.15.4, iPA - Ch. 11)

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-16.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 38 of 79



Plot 7-26. Power Spectral Density Antenna WF9 (802.15.4, iPA – Ch. 18)



Plot 7-27. Power Spectral Density Antenna WF9 (802.15.4, iPA – Ch. 25)

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.5 Conducted Authorized Band Edge

§15.247(d); RSS-247 [5.5]

Test Overview and Limit

For the following out of band conducted spurious emissions plots at the band edge, the EUT was set to transmit at maximum power with the largest packet size available. These settings produced the worst-case emissions.

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

Test Procedure Used

ANSI C63.10-2013 – Section 11.11.3
KDB 558074 D01 v05r02 – Section 8.7.2

Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW = 100kHz
4. VBW = 300kHz
5. Detector = Peak
6. Number of sweep points $\geq 2 \times \text{Span/RBW}$
7. Trace mode = max hold
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Setup

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



Figure 7-4. Test Instrument & Measurement Setup

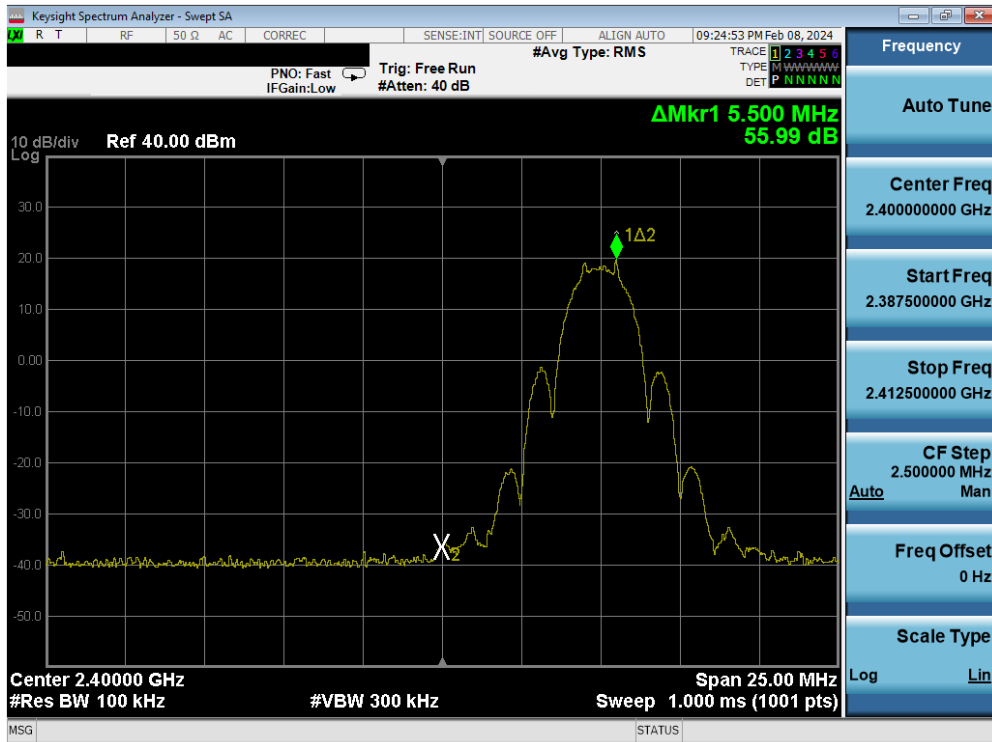
Test Notes

None

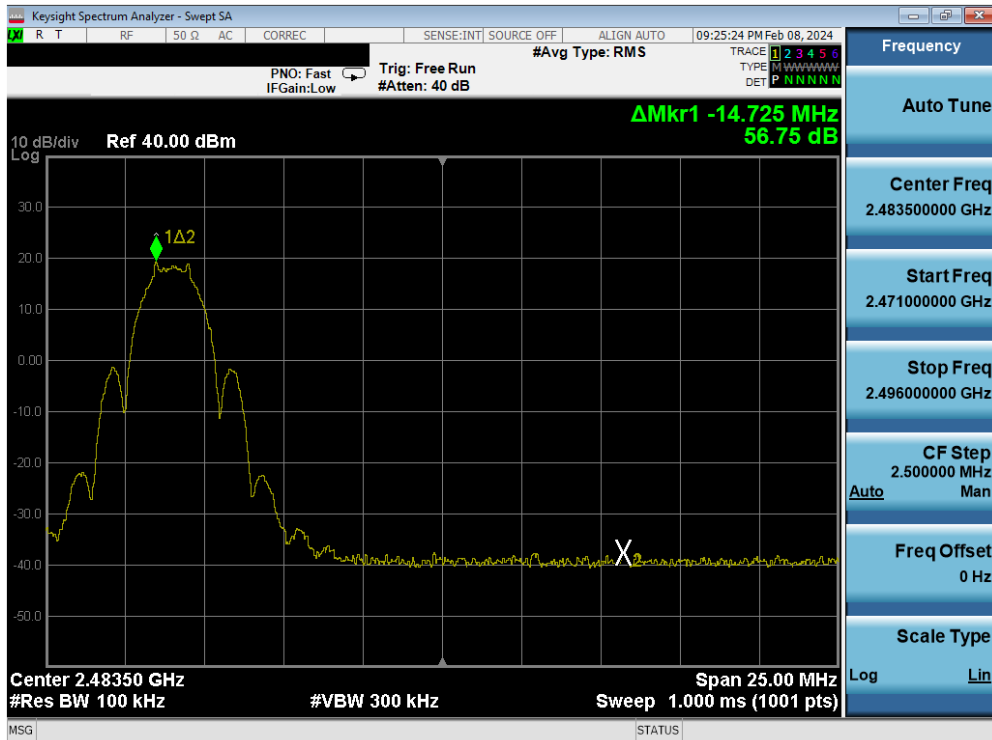
FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-16.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 40 of 79

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7.5.1 Antenna WF8 Conducted Authorized Band Edge



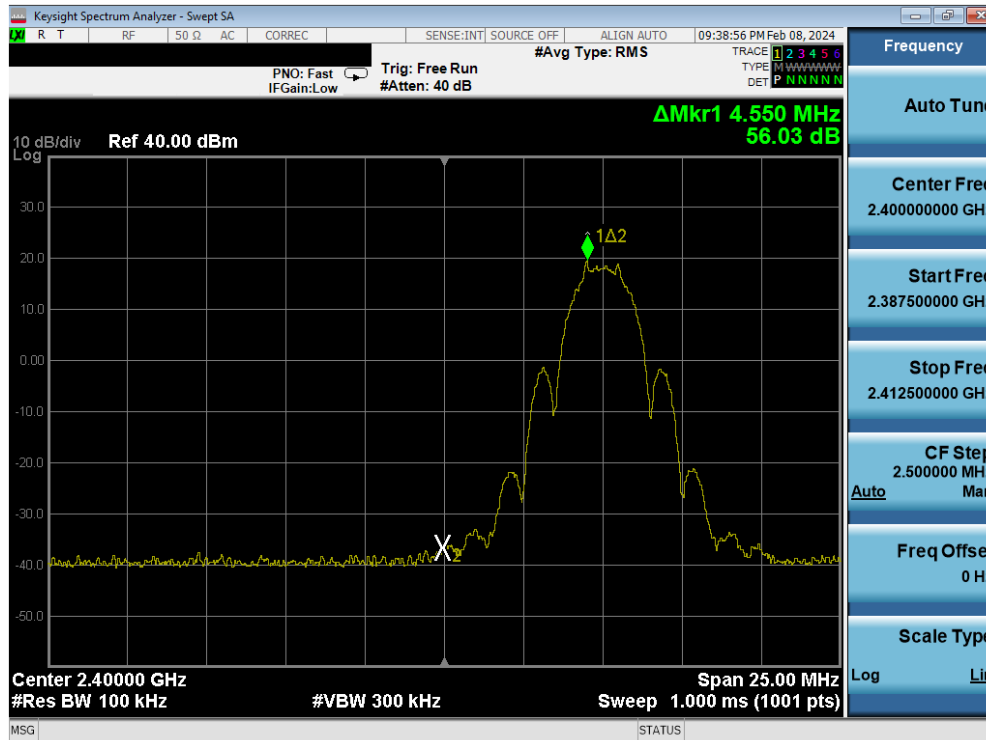
Plot 7-28. Band Edge Antenna WF8 (802.15.4, ePA – Ch. 11)



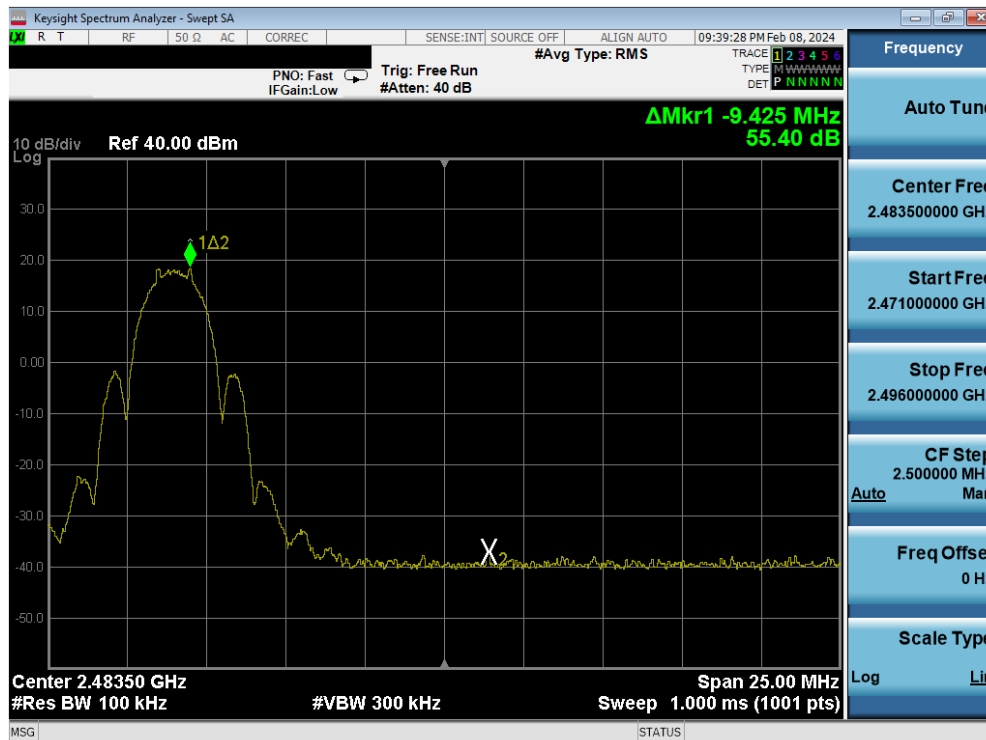
Plot 7-29. Band Edge Antenna WF8 (802.15.4, ePA – Ch. 25)

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-16.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 41 of 79

7.5.2 Antenna WF7 Conducted Authorized Band Edge



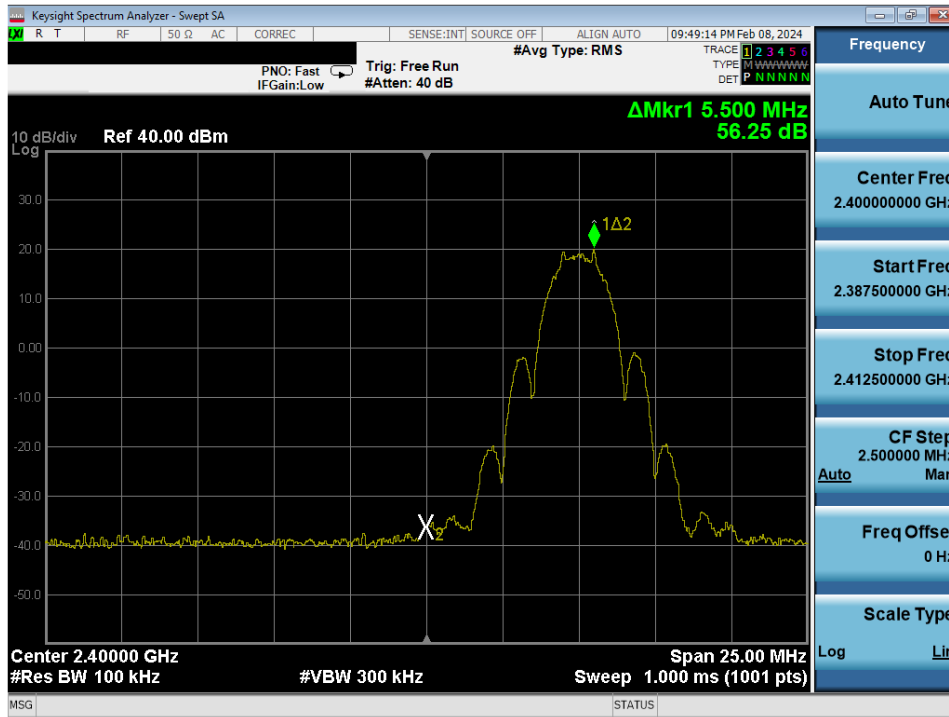
Plot 7-30. Band Edge Antenna WF7 (802.15.4, ePA – Ch. 11)



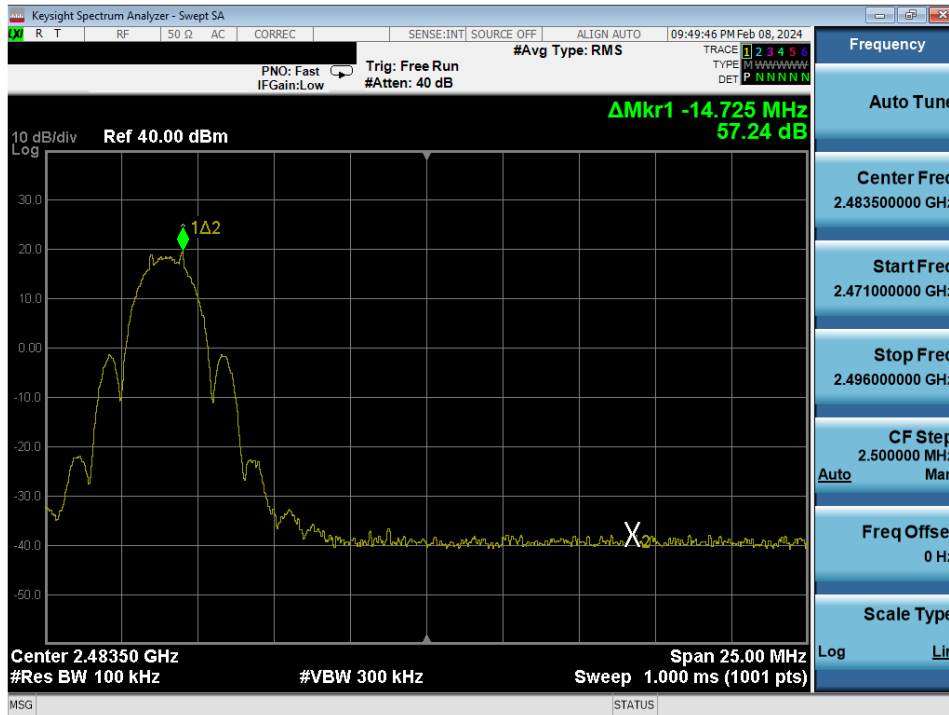
Plot 7-31. Band Edge Antenna WF7 (802.15.4, ePA – Ch. 25)

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-16.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 42 of 79

7.5.3 Antenna WF9 Conducted Authorized Band Edge



Plot 7-32. Band Edge Antenna WF9 (802.15.4, ePA – Ch. 11)



Plot 7-33. Band Edge Antenna WF9 (802.15.4, ePA – Ch. 25)

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-16.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 43 of 79

7.6 Conducted Spurious Emissions

§15.247(d); RSS-247 [5.5]

Test Overview and Limit

For the following out of band conducted spurious emissions plots, the EUT was set to transmit at maximum power with the largest packet size available. The worst case spurious emissions were found in this configuration.

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the procedure in Section 8.5 of KDB 558074 D01 v05r02 and Section 11.11.3 of ANSI C63.10-2013.

Test Procedure Used

ANSI C63.10-2013 – Section 11.11.3
KDB 558074 D01 v05r02 – Section 8.5

Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to 25GHz (separated into two plots per channel)
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Peak
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize

Test Setup

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



Figure 7-5. Test Instrument & Measurement Setup

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-16.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 44 of 79

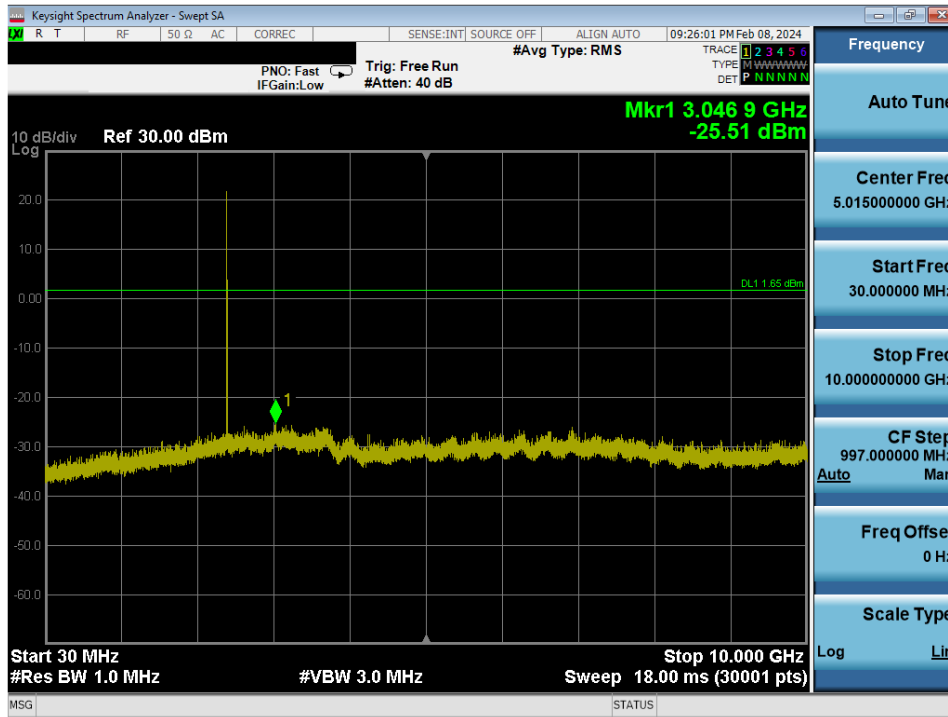
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Test Notes

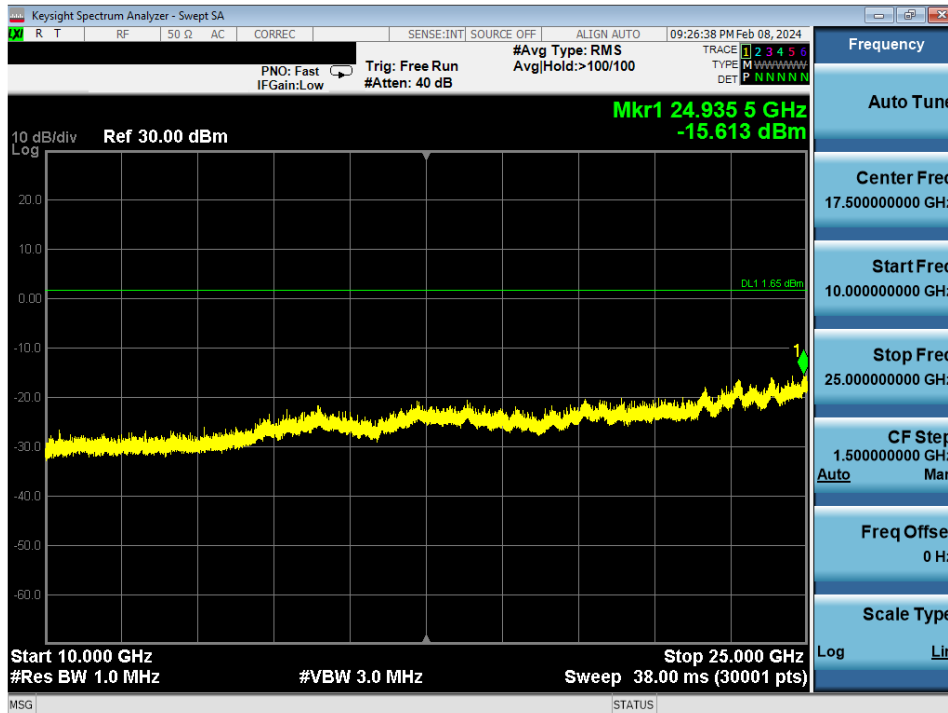
1. RBW was set to 1MHz rather than 100kHz in order to increase the measurement speed.
2. The display line shown in the following plots denotes the limit at 20dB below the fundamental emission level measured in a 100kHz bandwidth. However, since the traces in the following plots are measured with a 1MHz RBW, the display line may not necessarily appear to be 20dB below the level of the fundamental in a 1MHz bandwidth.
3. For plots showing conducted spurious emissions near the limit, the frequencies were investigated with a reduced RBW to ensure that no emissions were present.
4. All power schemes were investigated and only the worse case is reported.

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7.6.1 Antenna WF8 Conducted Spurious Emissions

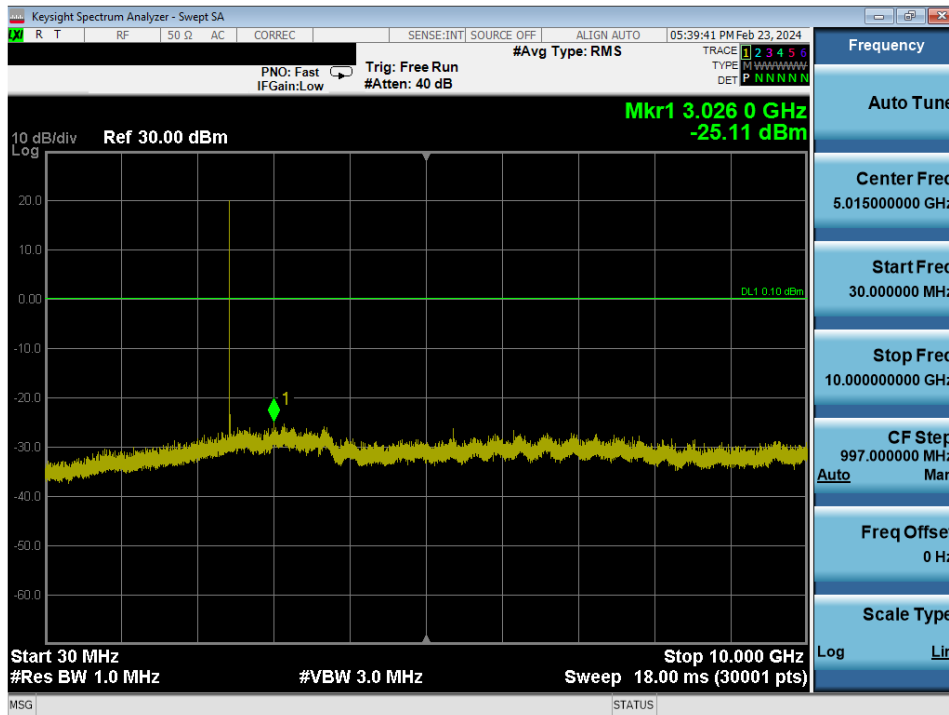


Plot 7-34. Conducted Spurious Antenna WF8 (802.15.4, ePA – Ch. 11)

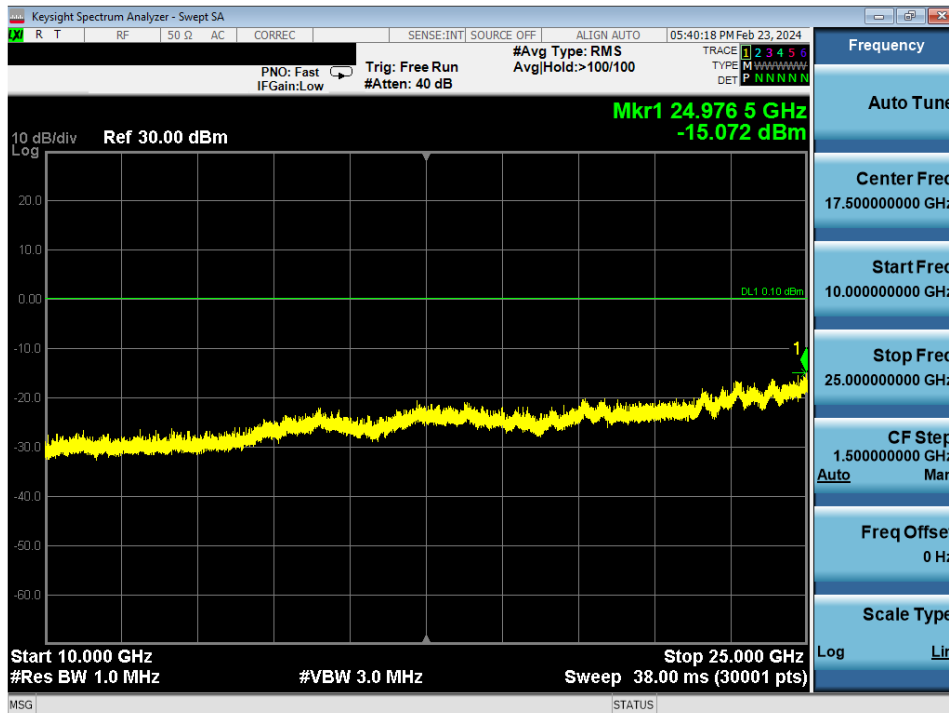


Plot 7-35. Conducted Spurious Antenna WF8 (802.15.4, ePA – Ch. 11)

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-16.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 46 of 79

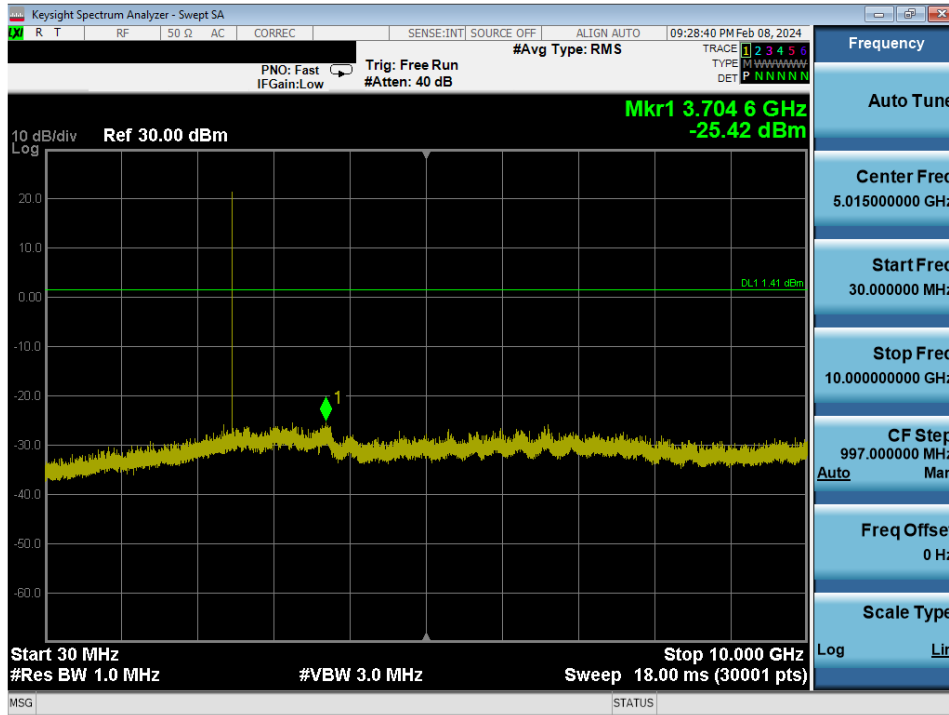


Plot 7-36. Conducted Spurious Antenna WF8 (802.15.4, ePA – Ch. 18)

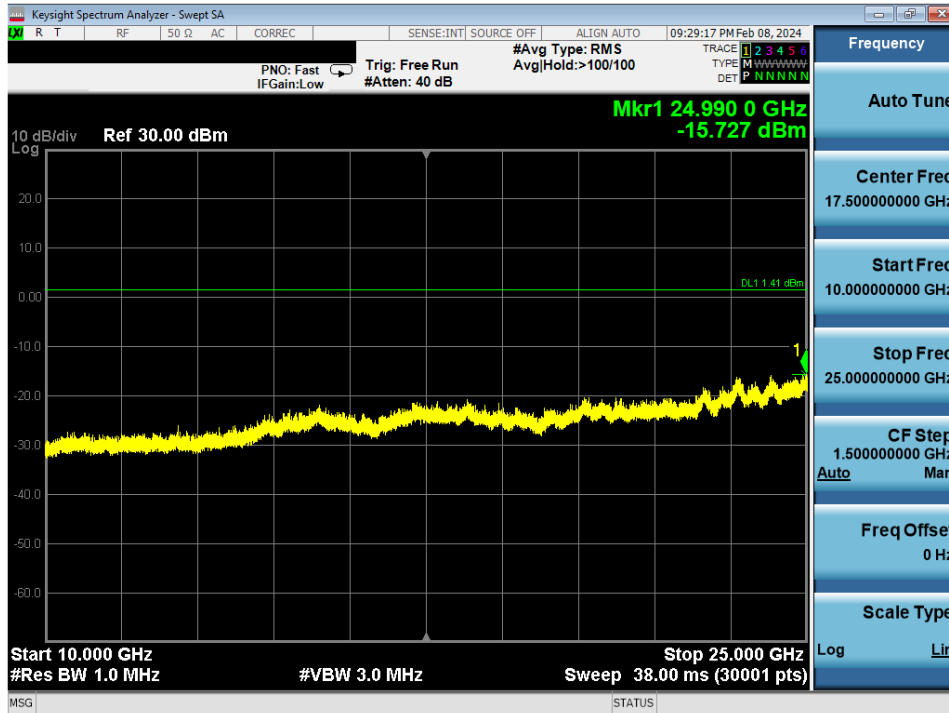


Plot 7-37. Conducted Spurious Antenna WF8 (802.15.4, ePA – Ch. 18)

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-16.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 47 of 79



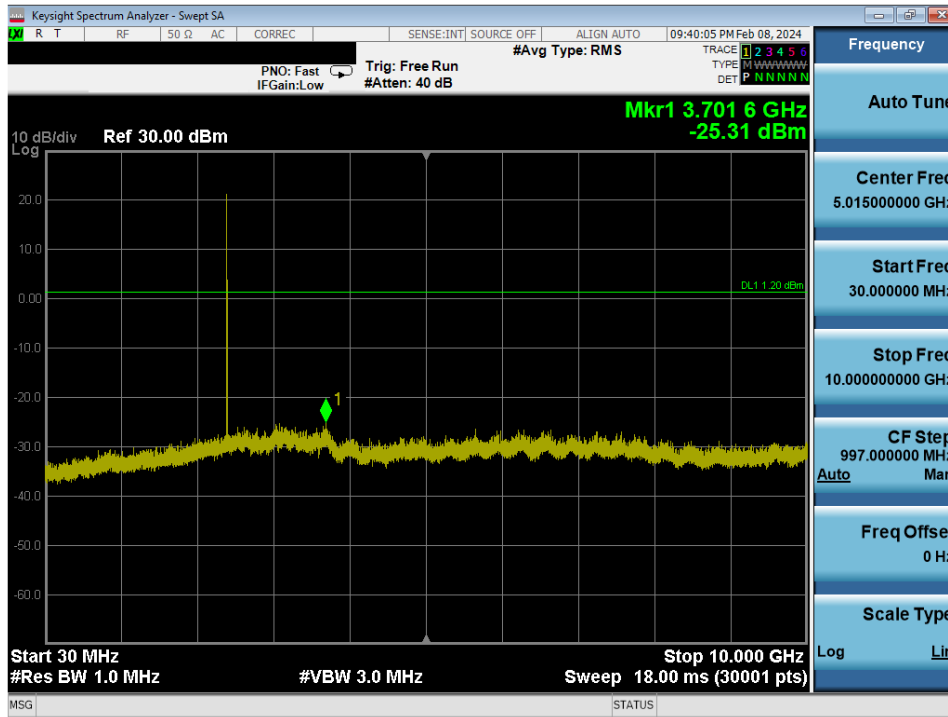
Plot 7-38. Conducted Spurious Antenna WF8 (802.15.4, ePA – Ch. 25)



Plot 7-39. Conducted Spurious Antenna WF8 (802.15.4, ePA – Ch. 25)

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-16.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 48 of 79

7.6.2 Antenna WF7 Conducted Spurious Emissions

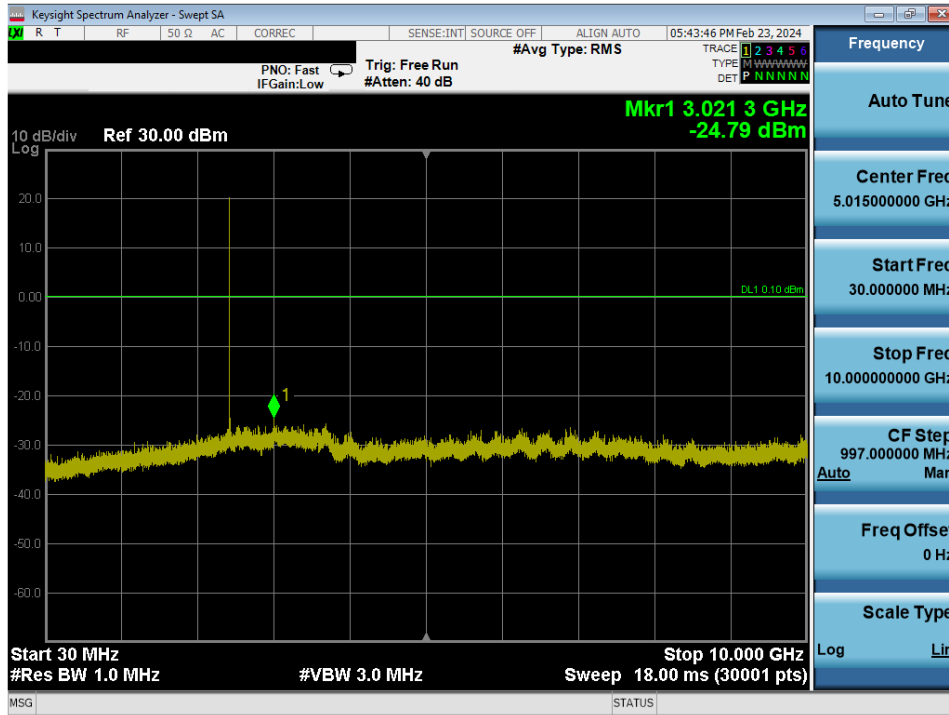


Plot 7-40. Conducted Spurious Antenna WF7 (802.15.4, ePA – Ch. 11)

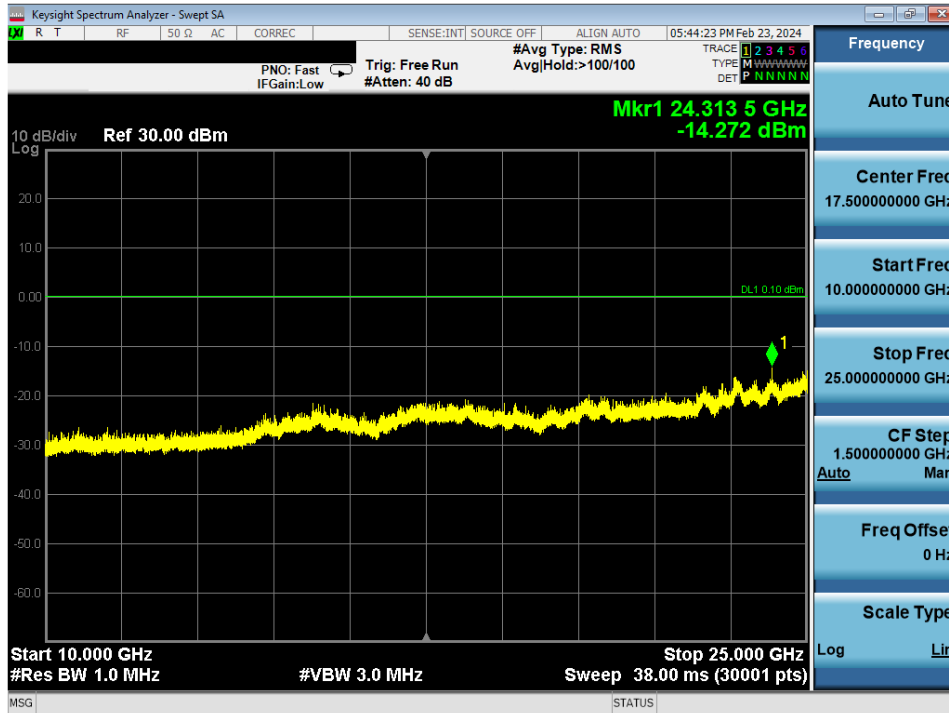


Plot 7-41. Conducted Spurious Antenna WF7 (802.15.4, ePA – Ch. 11)

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-16.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 49 of 79

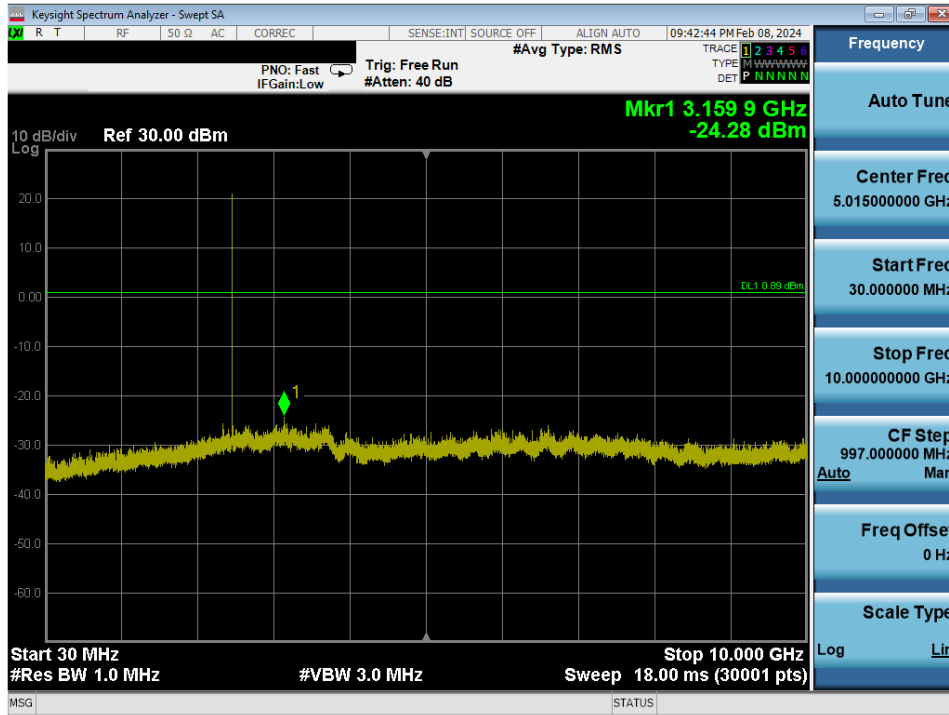


Plot 7-42. Conducted Spurious Antenna WF7 (802.15.4, ePA – Ch. 18)

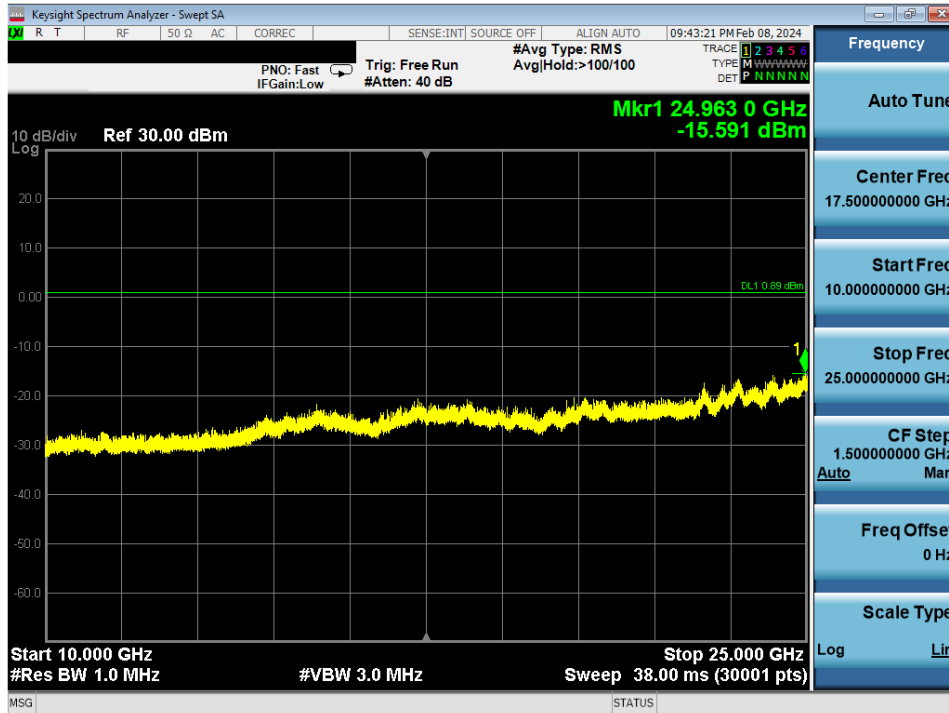


Plot 7-43. Conducted Spurious Antenna WF7 (802.15.4, ePA – Ch. 18)

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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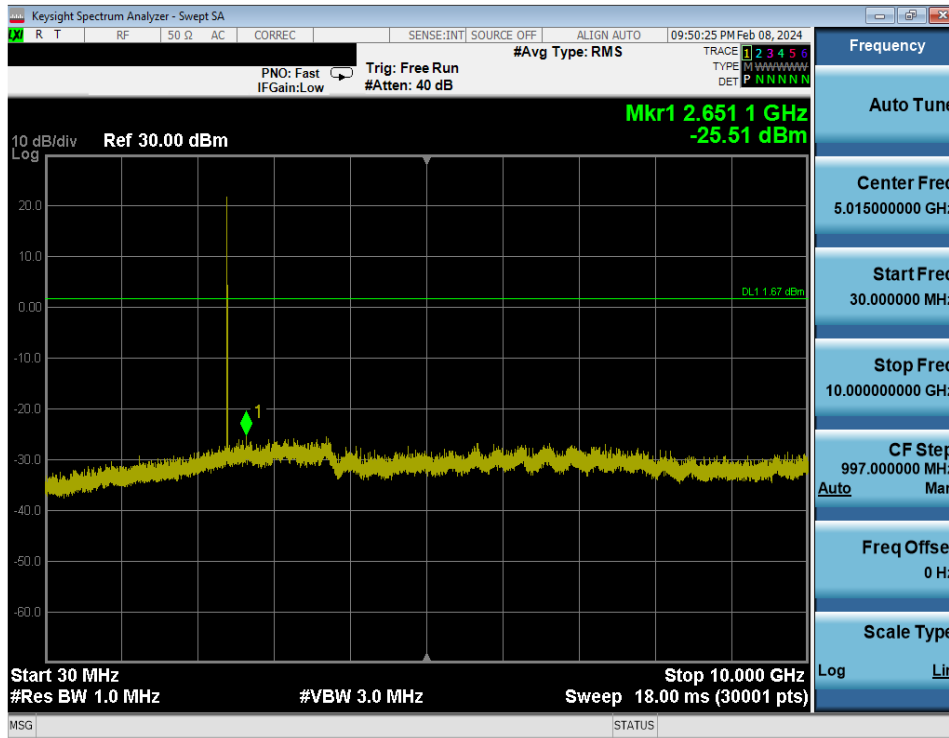
Plot 7-44. Conducted Spurious Antenna WF7 (802.15.4, ePA – Ch. 25)



Plot 7-45. Conducted Spurious Antenna WF7 (802.15.4, ePA – Ch. 25)

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.6.3 Antenna WF9 Conducted Spurious Emissions

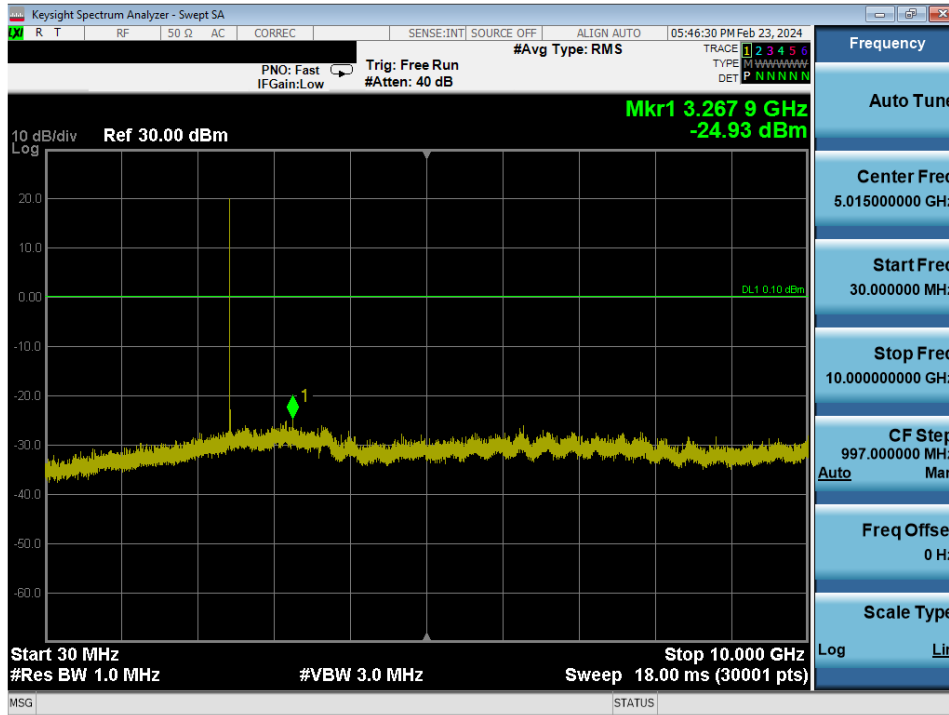


Plot 7-46. Conducted Spurious Antenna WF9 (802.15.4, ePA – Ch. 11)

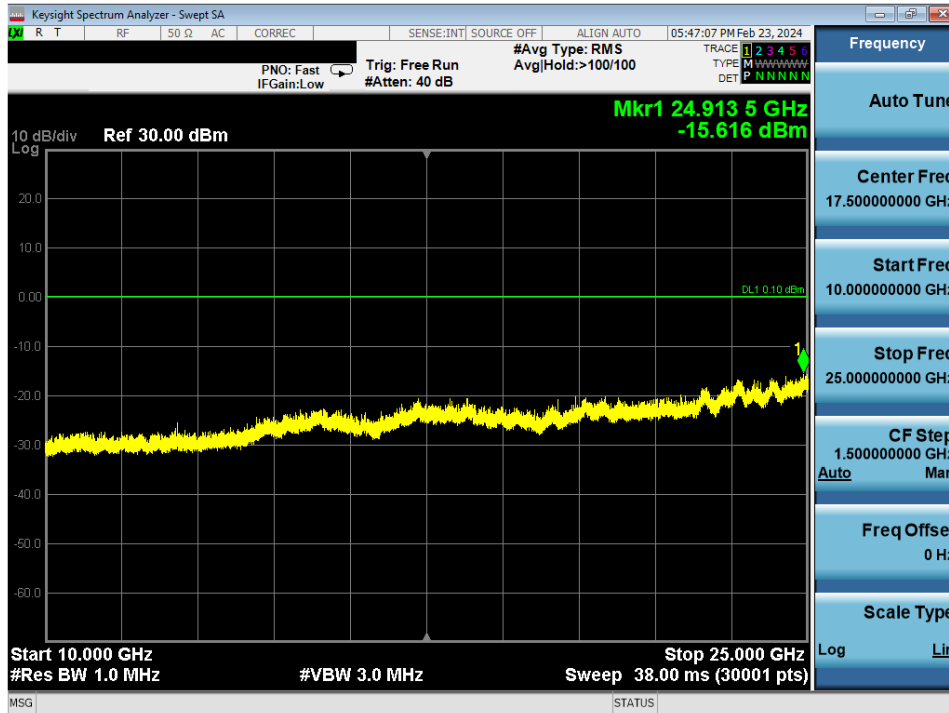


Plot 7-47. Conducted Spurious Antenna WF9 (802.15.4, ePA – Ch. 11)

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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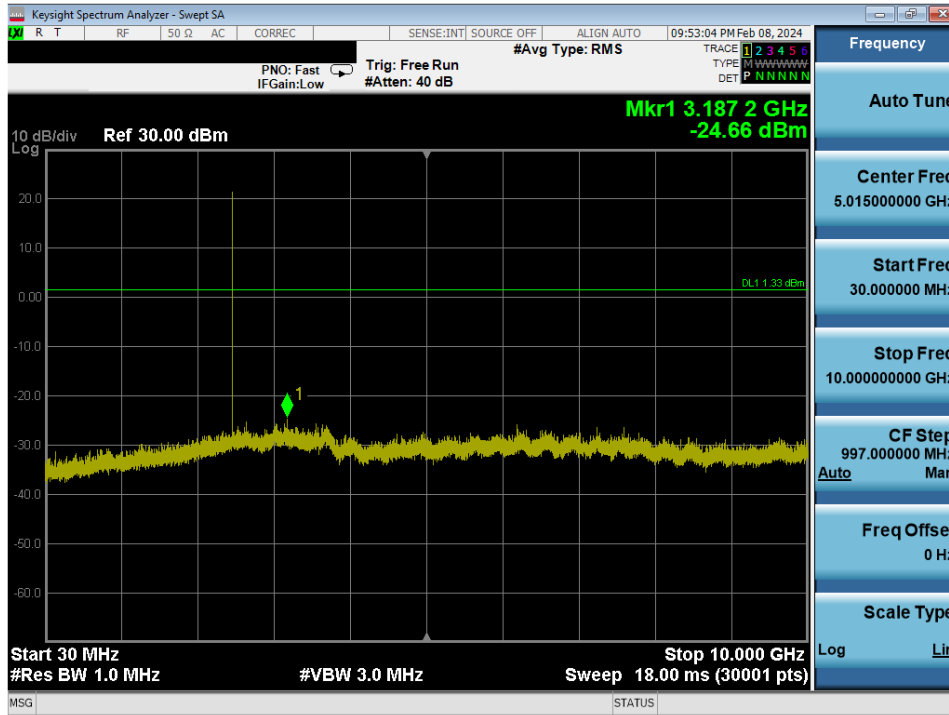


Plot 7-48. Conducted Spurious Antenna WF9 (802.15.4, ePA – Ch. 18)

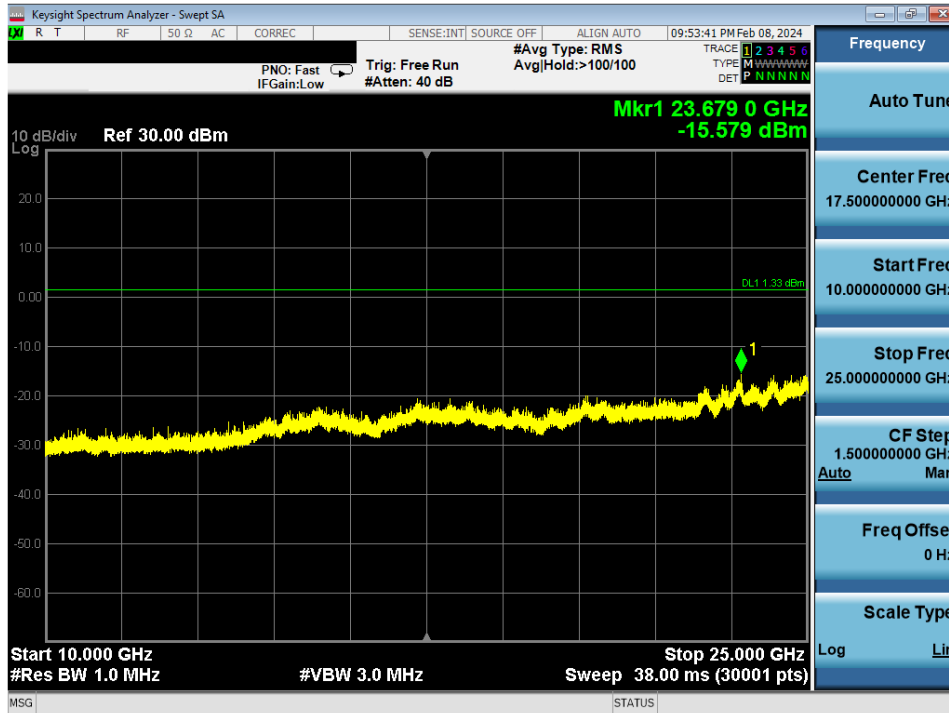


Plot 7-49. Conducted Spurious Antenna WF9 (802.15.4, ePA – Ch. 18)

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-50. Conducted Spurious Antenna WF9 (802.15.4, ePA – Ch. 25)



Plot 7-51. Conducted Spurious Antenna WF9 (802.15.4, ePA – Ch. 25)

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.7 Radiated Spurious Emissions – Above 1GHz

§15.205 §15.209 §15.247(d); RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at maximum power and at the appropriate frequencies. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-14 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [$\mu\text{V/m}$]	Measured Distance [Meters]
Above 960.0 MHz	500	3

Table 7-14. Radiated Limits

Test Procedures Used

ANSI C63.10-2013 – Section 6.6.4.3

KDB 558074 D01 v05r02 – Section 8.6, 8.7

Test Settings

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be $\geq 2 \times \text{span/RBW}$)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

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Test Setup

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

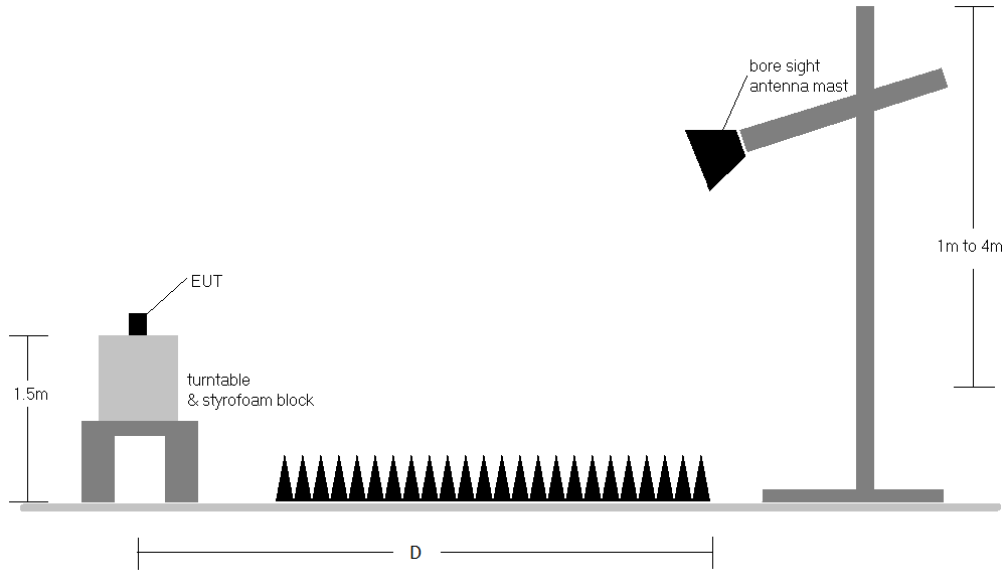


Figure 7-6. Radiated Measurement Setup >1GHz

FCC ID: BCGA2836 IC: 579C-A2836	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Test Notes

1. The optional test procedures for antenna port conducted measurements of unwanted emissions per the guidance of KDB 558074 D01 v05r02 were not used to evaluate this device for compliance to radiated limits. All radiated spurious emissions levels were measured in a radiated test setup.
2. All emissions lying in restricted bands specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-14.
3. The antenna is manipulated through typical positions, polarity and height during the tests. The EUT is manipulated through two orthogonal planes.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas.
6. Emissions below 18GHz were measured at a 3 meter test distance ($D = 3m$) while emissions above 18GHz were measured at a 1 meter test distance ($D = 1m$) with the application of a distance correction factor.
7. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
8. D is the measurement test distance and emissions 1-18GHz were measured at a 3 meters test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
9. All power schemes were investigated and only the worse case is reported.

Sample Calculations

Determining Spurious Emissions Levels

- Field Strength Level $_{[dB_{\mu V/m}]} = \text{Analyzer Level}_{[dBm]} + 107 + \text{AFCL}_{[dB/m]}$
- $\text{AFCL}_{[dB/m]} = \text{Antenna Factor}_{[dB/m]} + \text{Cable Loss}_{[dB]} - \text{Preamplifier Gain}_{[dB]}$
- $\text{Margin}_{[dB]} = \text{Field Strength Level}_{[dB_{\mu V/m}]} - \text{Limit}_{[dB_{\mu V/m}]}$

Radiated Band Edge Measurement Offset

- The amplitude offset shown in the radiated restricted band edge plots in Section 7.7.1 was calculated using the formula:

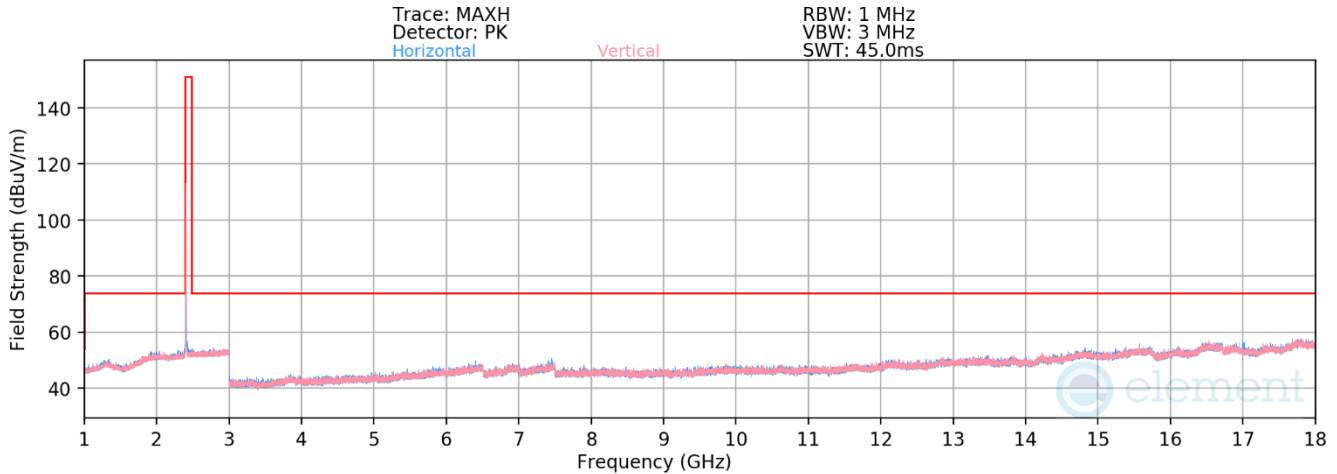
$$\text{Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + \text{Attenuator}) - \text{Preamplifier Gain}$$

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Radiated Spurious Emissions – Above 1GHz

§15.205 §15.209 §15.247(d); RSS-Gen [8.9]

Antenna WF8



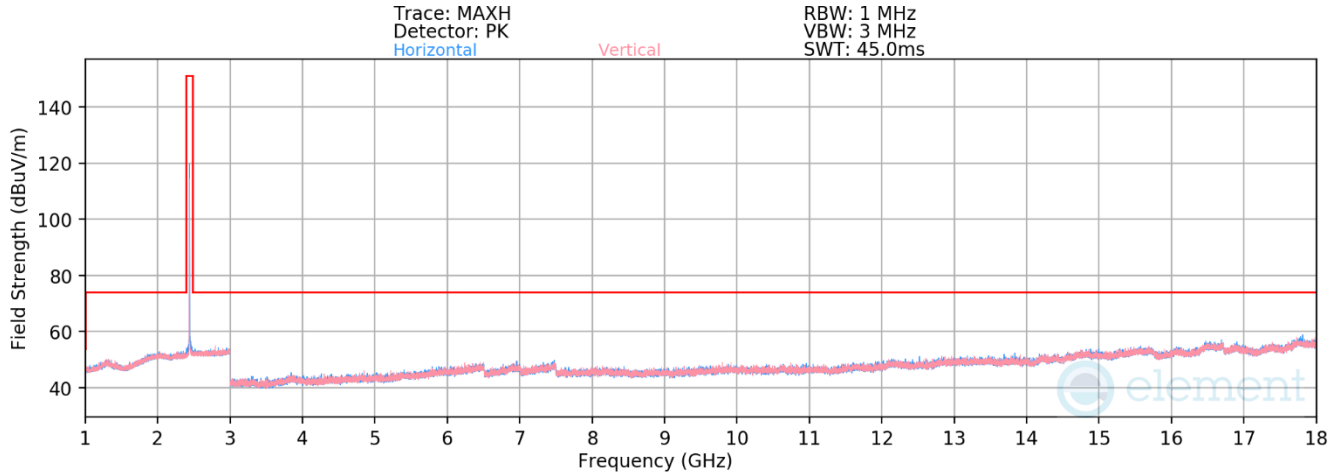
Plot 7-52. Radiated Spurious Emissions 1-18GHz Antenna WF8 (802.15.4 ePA – Ch. 11)

Mode: 802.15.4
 Data Rate: 250 Kbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 2405MHz
 Channel: 11

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4810.00	Avg	V	-	-	-77.52	4.22	33.70	53.98	-20.28
4810.00	Peak	V	-	-	-65.14	4.11	45.97	73.98	-28.01
12025.00	Avg	V	-	-	-80.45	11.75	38.29	53.98	-15.69
12025.00	Peak	V	-	-	-80.45	11.97	38.52	73.98	-35.46

Table 7-15. Radiated Spurious Emission Measurements Antenna WF8

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2311270067-16.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device		Page 58 of 79



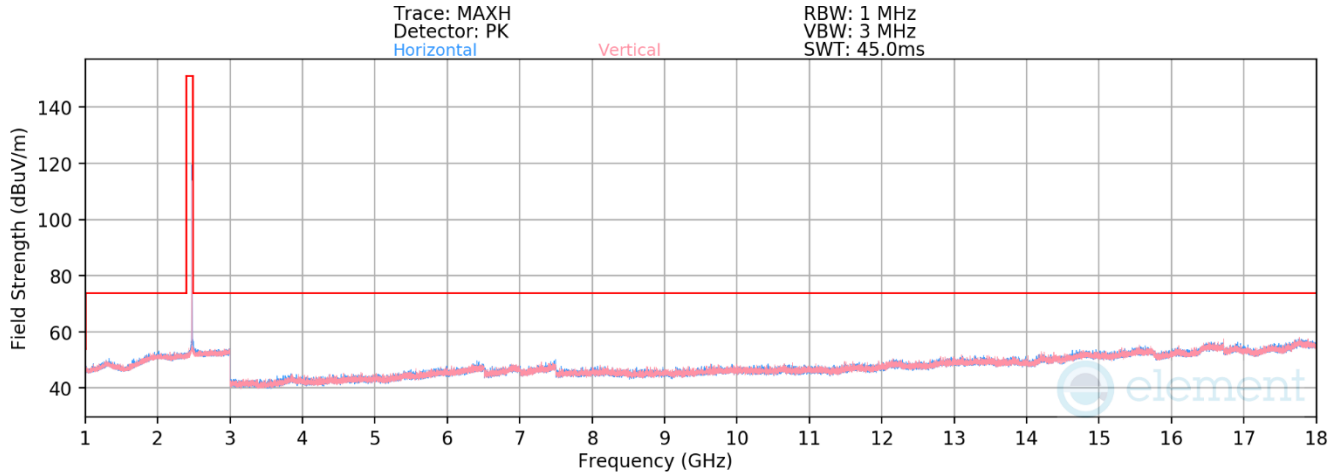
Plot 7-53. Radiated Spurious Emissions 1-18GHz Antenna WF8 (802.15.4 ePA – Ch. 18)

Mode: 802.15.4
 Data Rate: 250 Kbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 2440MHz
 Channel: 18

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4880.00	Avg	V	-	-	-77.18	4.32	34.15	53.98	-19.83
4880.00	Peak	V	-	-	-65.92	4.32	45.41	73.98	-28.57
7320.00	Avg	V	-	-	-78.37	8.93	37.56	53.98	-16.42
7320.00	Peak	V	-	-	-66.58	8.75	49.17	73.98	-24.81
12200.00	Avg	V	-	-	-80.40	12.49	39.09	53.98	-14.89
12200.00	Peak	V	-	-	-69.29	12.49	50.20	73.98	-23.78

Table 7-16. Radiated Spurious Emission Measurements Antenna WF8

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-16.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 59 of 79



Plot 7-54. Radiated Spurious Emissions 1-18GHz Antenna WF8 (802.15.4 ePA – Ch. 25)

Mode: 802.15.4
 Data Rate: 250 Kbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 2475MHz
 Channel: 25

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4950.00	Avg	V	-	-	-77.85	4.46	33.61	53.98	-20.37
4950.00	Peak	V	-	-	-66.11	4.39	45.28	73.98	-28.70
7425.00	Avg	V	-	-	-78.83	9.01	37.18	53.98	-16.80
7425.00	Peak	V	-	-	-66.86	9.01	49.15	73.98	-24.83
12375.00	Avg	V	-	-	-80.63	12.63	38.99	53.98	-14.99
12375.00	Peak	V	-	-	-69.44	12.29	49.85	73.98	-24.13

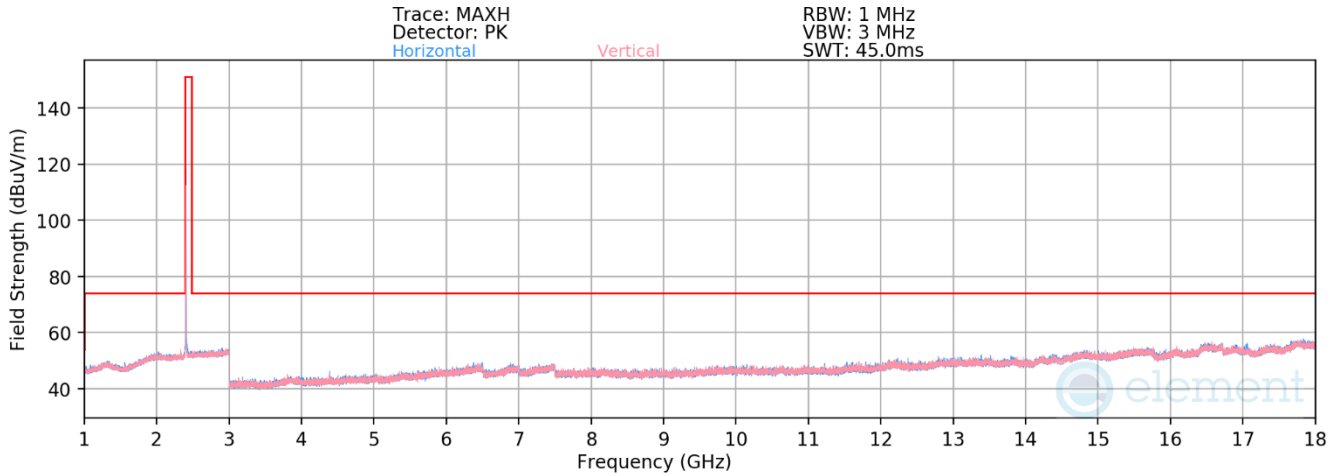
Table 7-17. Radiated Spurious Emission Measurements Antenna WF8

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-16.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 60 of 79

Radiated Spurious Emissions – Above 1GHz

§15.205 §15.209 §15.247(d); RSS-Gen [8.9]

Antenna WF7



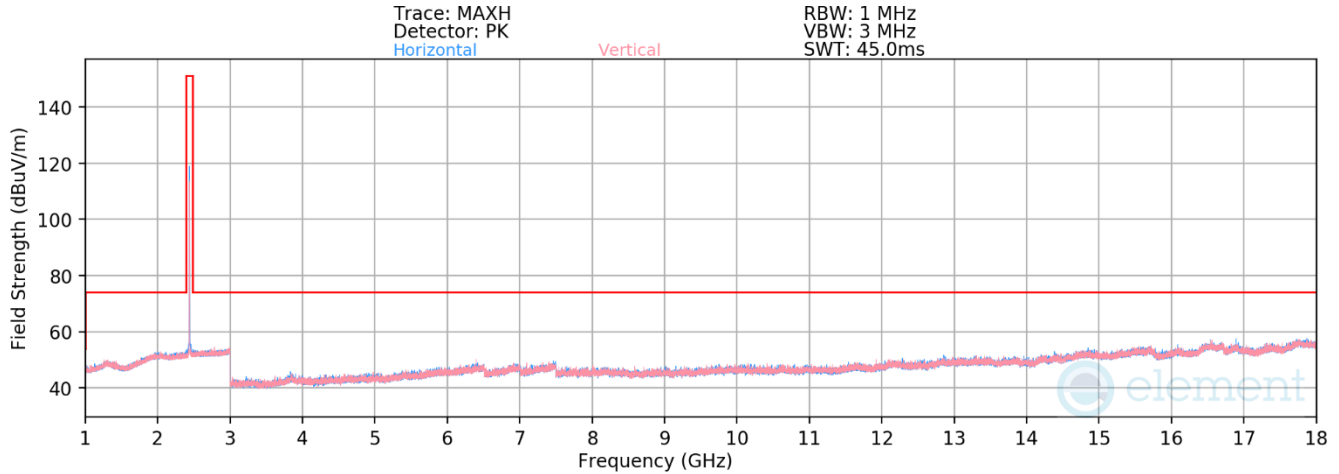
Plot 7-55. Radiated Spurious Emissions 1-18GHz Antenna WF7 (802.15.4 ePA – Ch. 11)

Mode: 802.15.4
 Data Rate: 250 Kbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 2405MHz
 Channel: 11

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4810.00	Avg	V	-	-	-77.69	4.22	33.52	53.98	-20.46
4810.00	Peak	V	-	-	-65.83	4.22	45.39	73.98	-28.59
12025.00	Avg	V	-	-	-80.58	11.97	38.39	53.98	-15.58
12025.00	Peak	V	-	-	-68.87	11.97	50.11	73.98	-23.87

Table 7-18. Radiated Spurious Emission Measurements Antenna WF7

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2311270067-16.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device		Page 61 of 79



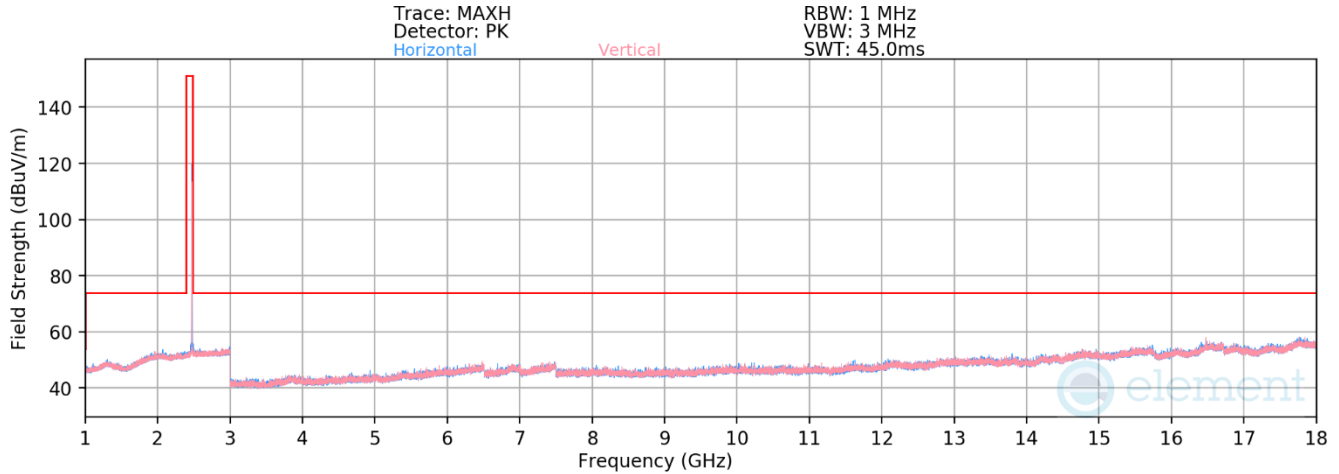
Plot 7-56. Radiated Spurious Emissions 1-18GHz Antenna WF7 (802.15.4 ePA – Ch. 18)

Mode: 802.15.4
 Data Rate: 250 Kbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 2440MHz
 Channel: 18

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4880.00	Avg	V	-	-	-77.27	4.25	33.98	53.98	-20.00
4880.00	Peak	V	-	-	-65.71	4.32	45.61	73.98	-28.37
7320.00	Avg	V	-	-	-78.59	8.75	37.16	53.98	-16.82
7320.00	Peak	V	-	-	-67.04	8.92	48.88	73.98	-25.10
12200.00	Avg	V	-	-	-80.47	12.49	39.02	53.98	-14.96
12200.00	Peak	V	-	-	-69.22	12.46	50.24	73.98	-23.74

Table 7-19. Radiated Spurious Emission Measurements Antenna WF7

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-16.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 62 of 79



Plot 7-57. Radiated Spurious Emissions 1-18GHz Antenna WF7 (802.15.4 ePA – Ch. 25)

Mode: 802.15.4
 Data Rate: 250 Kbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 2475MHz
 Channel: 25

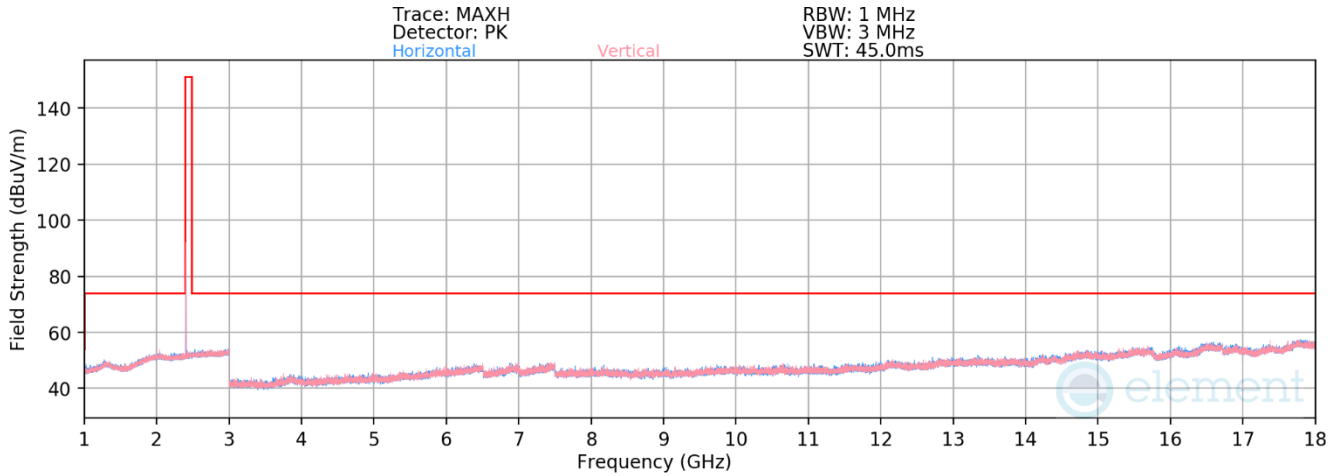
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4950.00	Avg	V	-	-	-78.13	4.46	33.33	53.98	-20.65
4950.00	Peak	V	-	-	-66.16	4.46	45.30	73.98	-28.68
7425.00	Avg	V	-	-	-78.86	8.67	36.82	53.98	-17.16
7425.00	Peak	V	-	-	-66.64	9.01	49.37	73.98	-24.61
12375.00	Avg	V	-	-	-80.27	12.29	39.02	53.98	-14.96
12375.00	Peak	V	-	-	-68.92	12.29	50.37	73.98	-23.61

Table 7-20. Radiated Spurious Emission Measurements Antenna WF7

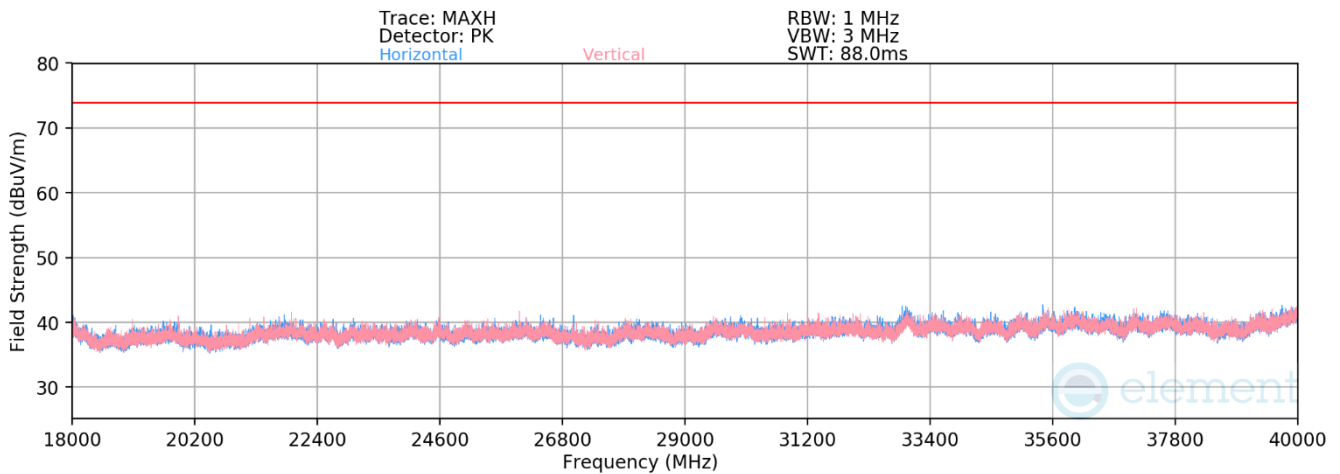
FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-16.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 63 of 79

Radiated Spurious Emissions – Above 1GHz
 §15.205 §15.209 §15.247(d); RSS-Gen [8.9]

Antenna WF9



Plot 7-58. Radiated Spurious Emissions 1-18GHz Antenna WF9 (802.15.4 ePA – Ch. 11)



Plot 7-59. Radiated Spurious Emissions Above 18GHz Antenna WF9 (802.15.4 ePA – Ch.11)

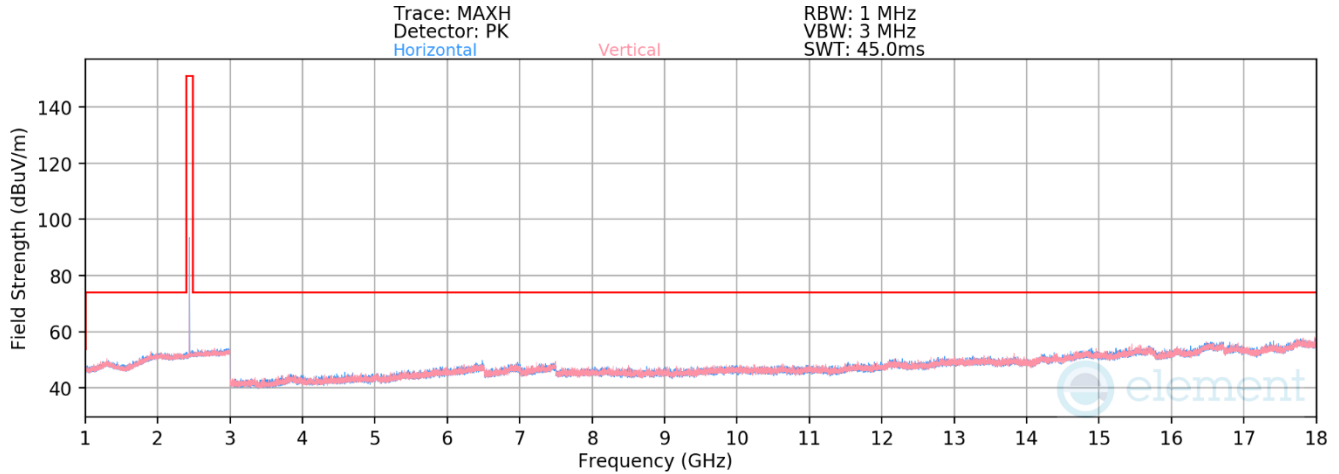
FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-16.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 64 of 79

Mode: 802.15.4
 Data Rate: 250 Kbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 2405MHz
 Channel: 11

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4804.00	Avg	V	-	-	-77.62	4.11	33.49	53.98	-20.49
4804.00	Peak	V	-	-	-65.91	4.22	45.31	73.98	-28.67
12010.00	Avg	V	-	-	-80.55	11.97	38.42	53.98	-15.56
12010.00	Peak	V	-	-	-68.94	11.97	50.03	73.98	-23.95

Table 7-21. Radiated Spurious Emission Measurements Antenna WF9

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-16.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 65 of 79



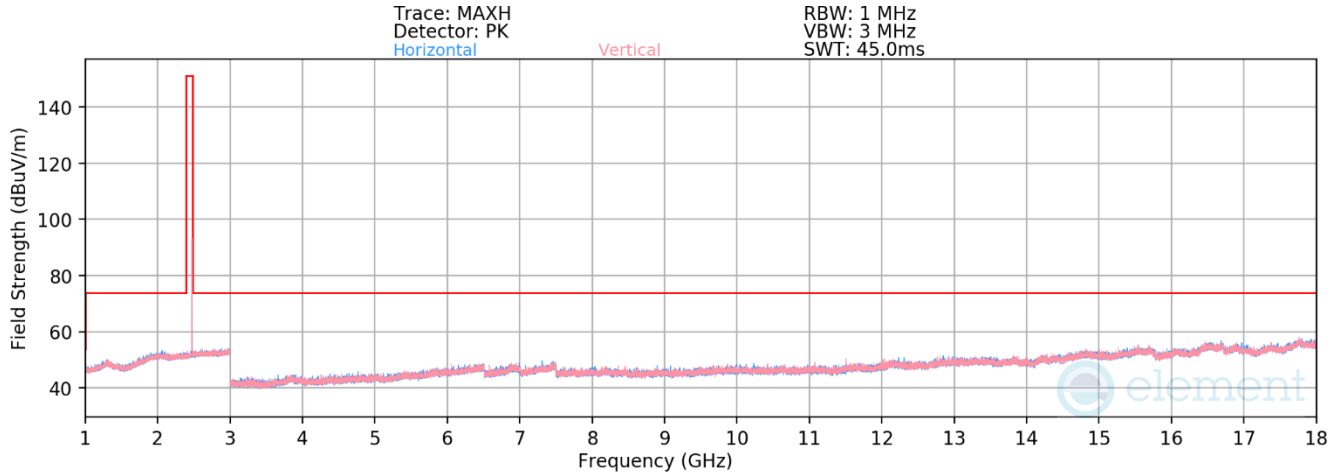
Plot 7-60. Radiated Spurious Emissions 1-18GHz Antenna WF9 (802.15.4 ePA – Ch. 18)

Mode: 802.15.4
 Data Rate: 250 Kbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 2440MHz
 Channel: 18

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4880.00	Avg	V	-	-	-77.14	4.32	34.19	53.98	-19.79
4880.00	Peak	V	-	-	-65.27	4.32	46.06	73.98	-27.92
7320.00	Avg	V	-	-	-78.54	8.75	37.21	53.98	-16.77
7320.00	Peak	V	-	-	-66.71	8.75	49.04	73.98	-24.94
12200.00	Avg	V	-	-	-80.56	12.46	38.90	53.98	-15.08
12200.00	Peak	V	-	-	-69.22	12.46	50.24	73.98	-23.74

Table 7-22. Radiated Spurious Emission Measurements Antenna WF9

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-16.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 66 of 79



Plot 7-61. Radiated Spurious Emissions 1-18GHz Antenna WF9 (802.15.4 ePA – Ch. 25)

Mode: 802.15.4
 Data Rate: 250 Kbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 2475MHz
 Channel: 25

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4960.00	Avg	V	-	-	-77.93	4.39	33.46	53.98	-20.52
4960.00	Peak	V	-	-	-65.23	4.45	46.22	73.98	-27.76
7440.00	Avg	V	-	-	-79.01	9.01	37.00	53.98	-16.98
7440.00	Peak	V	-	-	-67.35	9.01	48.67	73.98	-25.31
12400.00	Avg	V	-	-	-80.48	12.29	38.81	53.98	-15.17
12400.00	Peak	V	-	-	-69.15	12.29	50.14	73.98	-23.84

Table 7-23. Radiated Spurious Emission Measurements Antenna WF9

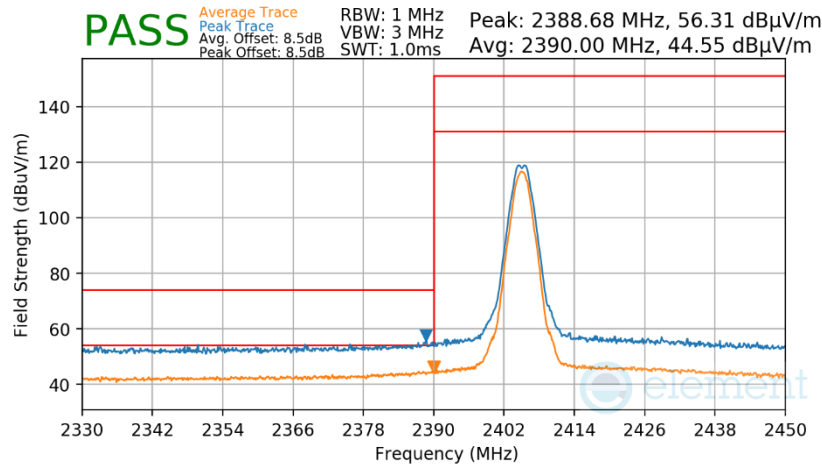
FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-16.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 67 of 79

7.7.1 Radiated Restricted Band Edge Measurements

§15.205 §15.209; RSS-Gen [8.9]

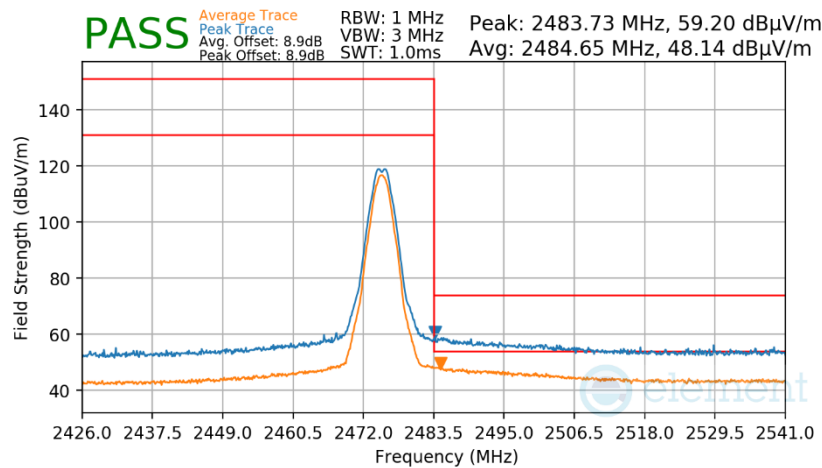
Antenna WF8

Mode: 802.15.4
 Data Rate: 250 Kbps
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 2405MHz
 Channel: 11



Plot 7-62. Radiated Restricted Lower Band Edge Measurement Antenna WF8

Mode: 802.15.4
 Data Rate: 250 Kbps
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 2475MHz
 Channel: 25



Plot 7-63. Radiated Restricted Upper Band Edge Measurement Antenna WF8

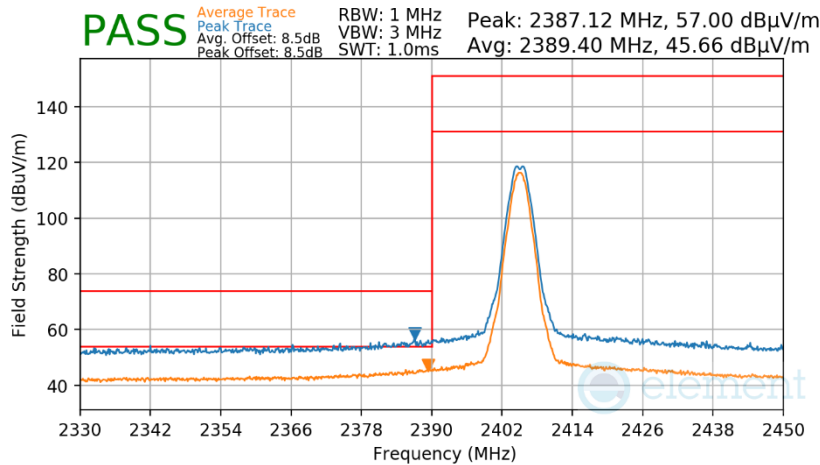
FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-16.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 68 of 79

Radiated Restricted Band Edge Measurements

§15.205 §15.209; RSS-Gen [8.9]

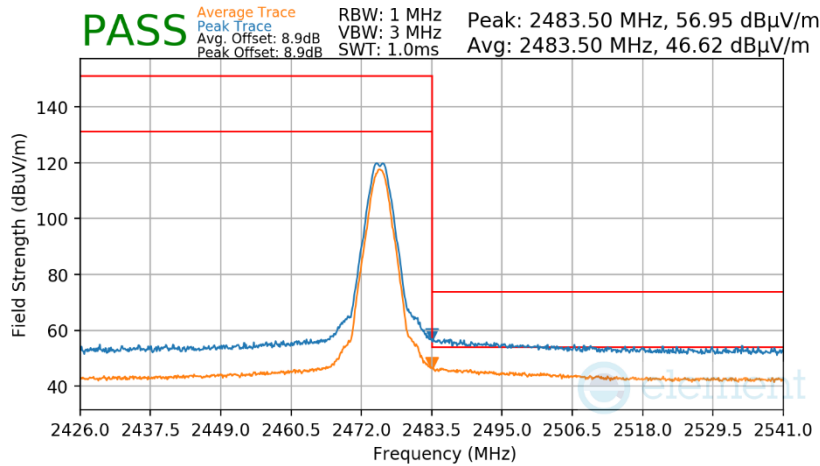
Antenna WF7

Mode: 802.15.4
 Data Rate: 250 Kbps
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 2405MHz
 Channel: 11



Plot 7-64. Radiated Restricted Lower Band Edge Measurement Antenna WF7

Mode: 802.15.4
 Data Rate: 250 Kbps
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 2475MHz
 Channel: 25



Plot 7-65. Radiated Restricted Upper Band Edge Measurement Antenna WF7

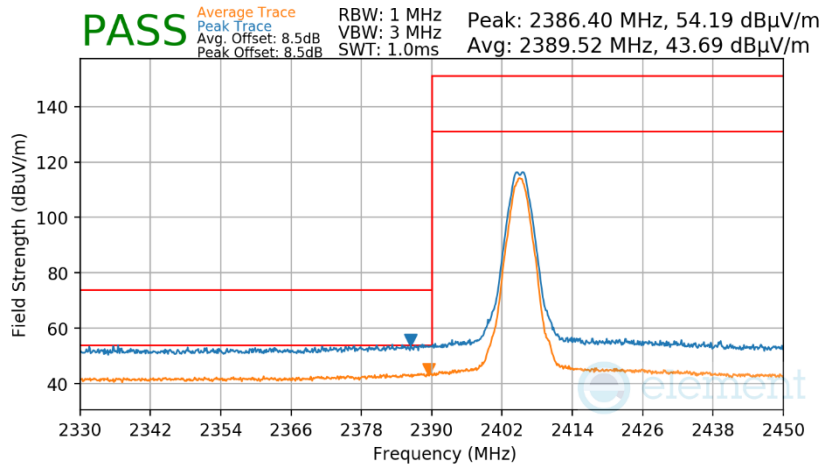
FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-16.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 69 of 79

Radiated Restricted Band Edge Measurements

§15.205 §15.209; RSS-Gen [8.9]

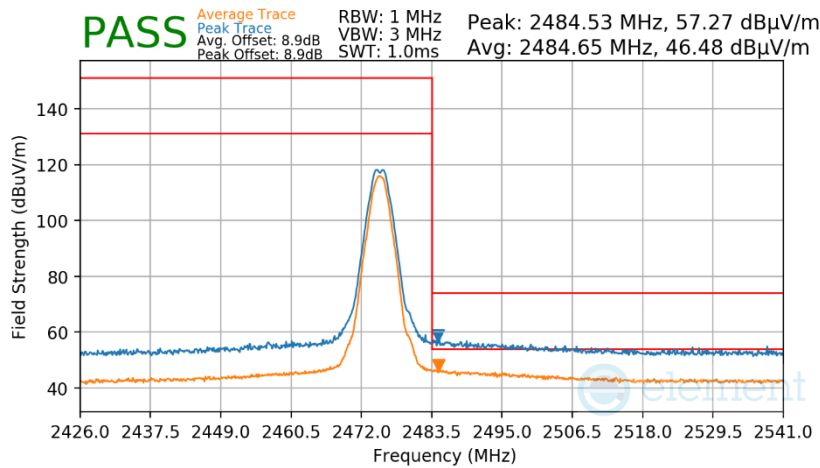
Antenna WF9

Mode: 802.15.4
 Data Rate: 250 Kbps
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 2405MHz
 Channel: 11



Plot 7-66. Radiated Restricted Lower Band Edge Measurement Antenna WF9

Mode: 802.15.4
 Data Rate: 250 Kbps
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 2475MHz
 Channel: 25



Plot 7-67. Radiated Restricted Upper Band Edge Measurement Antenna WF9

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-16.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device	Page 70 of 79

7.8 Radiated Spurious Emissions – Below 1GHz

§15.209; RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-24 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [$\mu\text{V/m}$]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

Table 7-24. Radiated Limits

Test Procedures Used

ANSI C63.10-2013

Test Settings

Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. VBW = 300kHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

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Test Setup

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

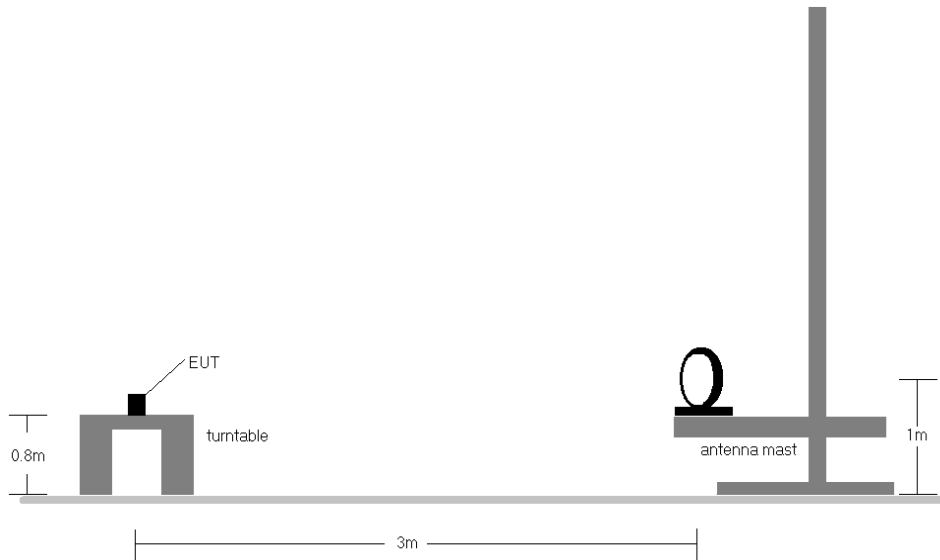


Figure 7-7. Radiated Test Setup < 30Mhz

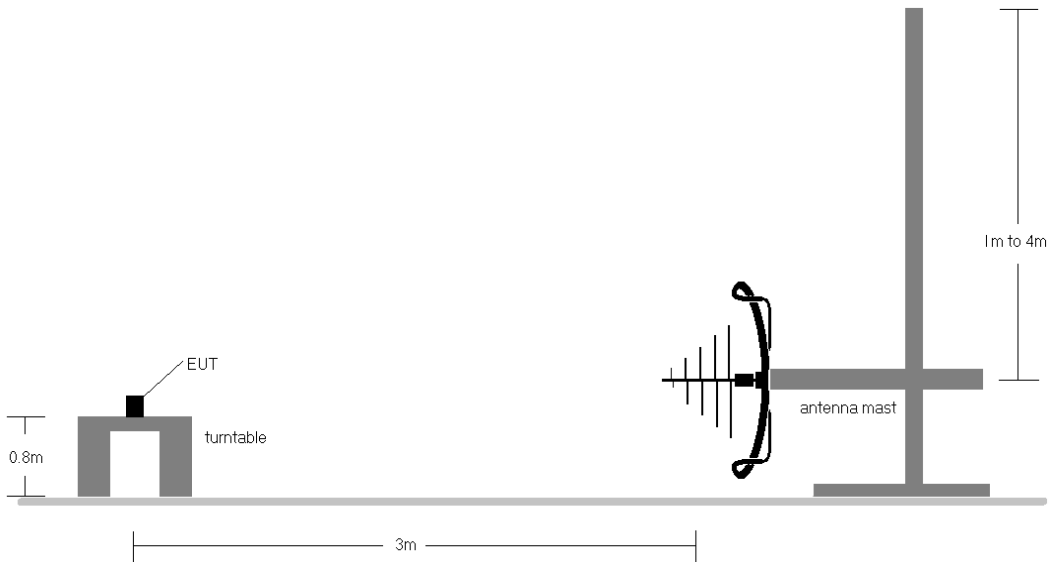


Figure 7-8. Radiated Test Setup < 1GHz

FCC ID: BCGA2836 IC: 579C-A2836	 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-16.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device
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Test Notes

1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen(8.10) are below the limit shown in Table 7-24.
2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through two orthogonal planes. For below 30MHz measurements, the loop antenna was positioned in three orthogonal planes (X front, Y side, Z top) to determine the orientation resulting in the worst case emissions.
3. This unit was tested with its standard battery.
4. The spectrum is investigated using a peak detector and final measurements are recorded using CISPR quasi peak detector for emissions within 6dB of the limit.
5. Emissions were measured at a 3 meter test distance.
6. Emissions are investigated while operating on the worst channel, band, and modulation that produced the worst case results during the transmitter spurious emissions testing.
7. The results recorded using the broadband antenna is known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.
8. The unit was tested with all possible modes and power schemes and only the highest emission is reported.
9. No spurious emissions were detected within 20dB of the limit below 30MHz.
10. All antennas and power schemes have been tested on the unit and only the worst case configuration is reported.

Sample Calculations

Determining Spurious Emissions Levels

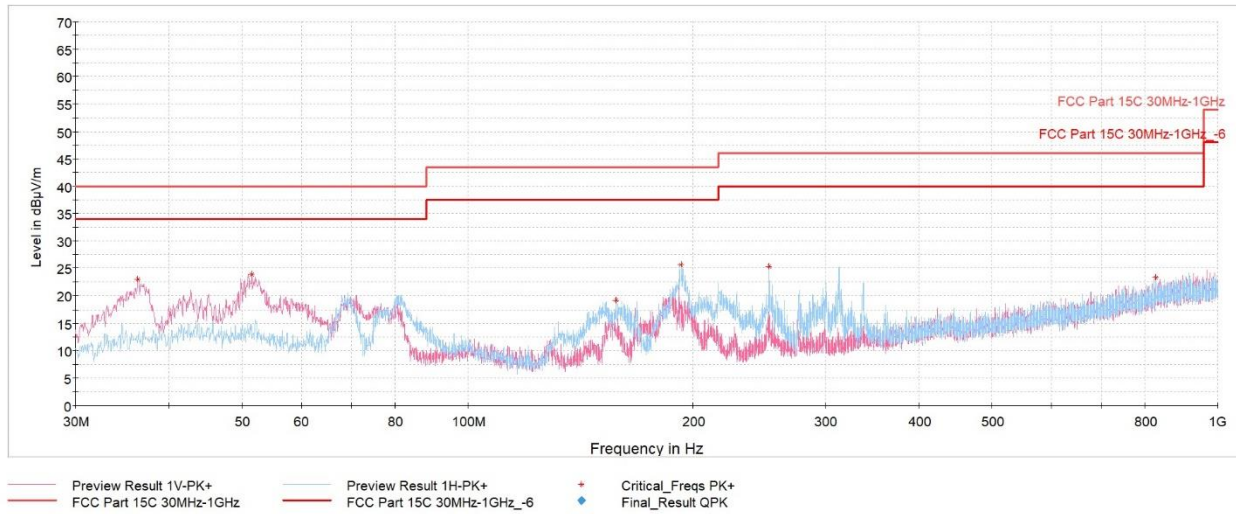
- Field Strength Level $_{[dB_{\mu V/m}]}$ = Analyzer Level $_{[dBm]}$ + 107 + AFCL $_{[dB/m]}$
- AFCL $_{[dB/m]}$ = Antenna Factor $_{[dB/m]}$ + Cable Loss $_{[dB]}$ – Preamplifier Gain $_{[dB]}$
- Margin $_{[dB]}$ = Field Strength Level $_{[dB_{\mu V/m}]}$ – Limit $_{[dB_{\mu V/m}]}$

FCC ID: BCGA2836 IC: 579C-A2836	 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-16.BCG	Test Dates: 1/8/2024 - 3/14/2024	EUT Type: Tablet Device
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Radiated Spurious Emissions – Below 1GHz

§15.209; RSS-Gen [8.9]



Plot 7-68. Radiated Spurious Emissions 30MHz-1GHz Antenna WF9 (250kbps, ePA - Ch.11, with AC/DC Adapter)

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
36.35	MaxPeak	V	100	0	-68.62	-15.39	22.99	40.00	-17.01
51.58	MaxPeak	V	100	2	-70.01	-13.12	23.87	40.00	-16.13
157.80	MaxPeak	H	200	13	-68.21	-19.64	19.15	43.52	-24.37
192.38	MaxPeak	H	100	178	-64.21	-17.22	25.57	43.52	-17.95
252.42	MaxPeak	H	100	275	-66.34	-15.33	25.33	46.02	-20.69
827.34	MaxPeak	H	100	54	-79.79	-3.99	23.22	46.02	-22.80

Table 7-25. Radiated Spurious Emission Measurements 30MHz-1GHz Antenna WF9 (250kbps, ePA - Ch.11, with AC/DC Adapter)

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7.9 AC Line Conducted Emission Measurements

§15.207; RSS-Gen [8.8]

Test Overview and Limit

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for AC line conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section.

All conducted emissions must not exceed the limits shown in the table below, per Section 15.207 and RSS-Gen (8.8).

Frequency of emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

Table 7-26. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10-2013, Section 6.2

Test Settings

Quasi-Peak Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

Average Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = RMS
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

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Test Setup

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

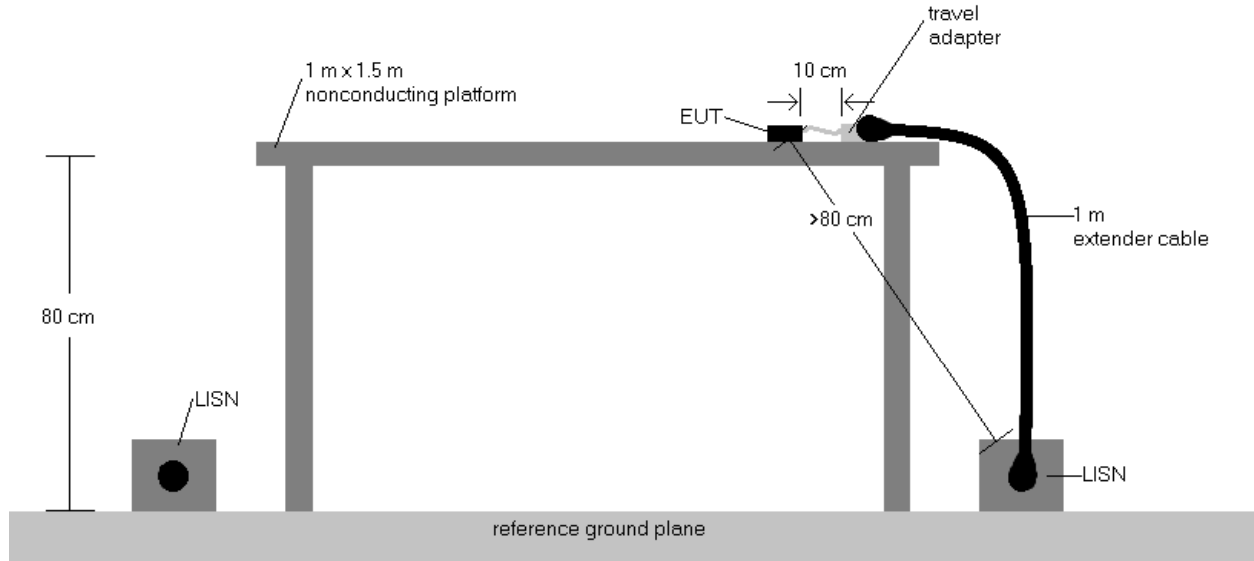
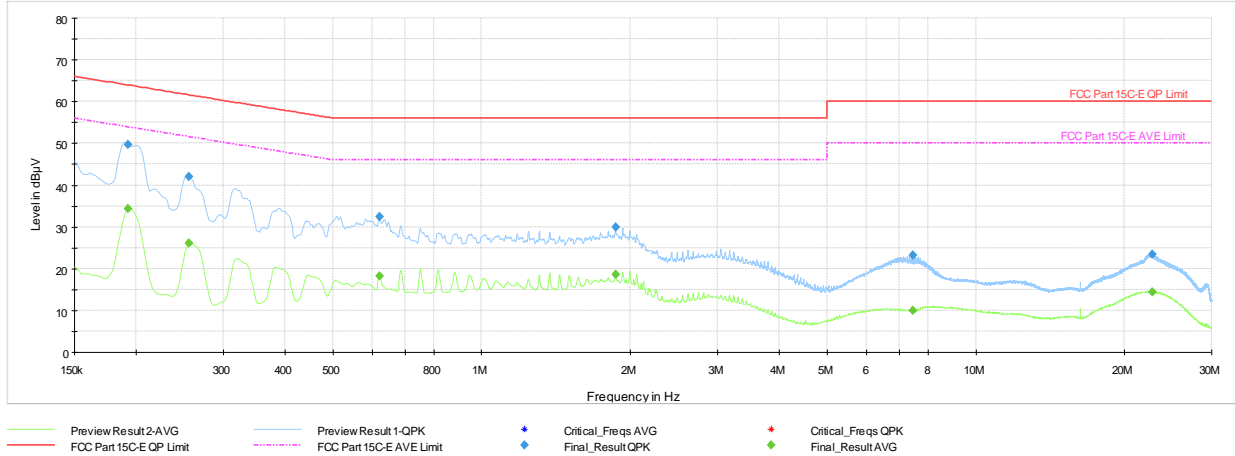


Figure 7-9. Test Instrument & Measurement Setup

Test Notes

1. All modes of operation were investigated for AC line conducted spurious emissions and the worst-case emissions are reported. The emissions found were not affected by the choice of channel used during testing.
2. The limit for an intentional radiator from 150kHz to 30MHz are specified in Part 15.207 and RSS-Gen (8.8).
3. $Corr. (dB) = Cable\ loss (dB) + LISN\ insertion\ factor (dB)$
4. $QP/AV\ Level (dB\mu V) = QP/AV\ Analyzer/Receiver\ Level (dB\mu V) + Corr. (dB)$
5. $Margin (dB) = QP/AV\ Level (dB\mu V) - QP/AV\ Limit (dB\mu V)$
6. Traces shown in plot are made using quasi-peak and average detectors.
7. Deviations to the Specifications: None.
8. The following configuration was investigated and reported.
 - a. EUT powered by AC/DC adaptor via USB-C cable with wire charger
 - b. EUT powered by host PC via USB-C cable with wire charger

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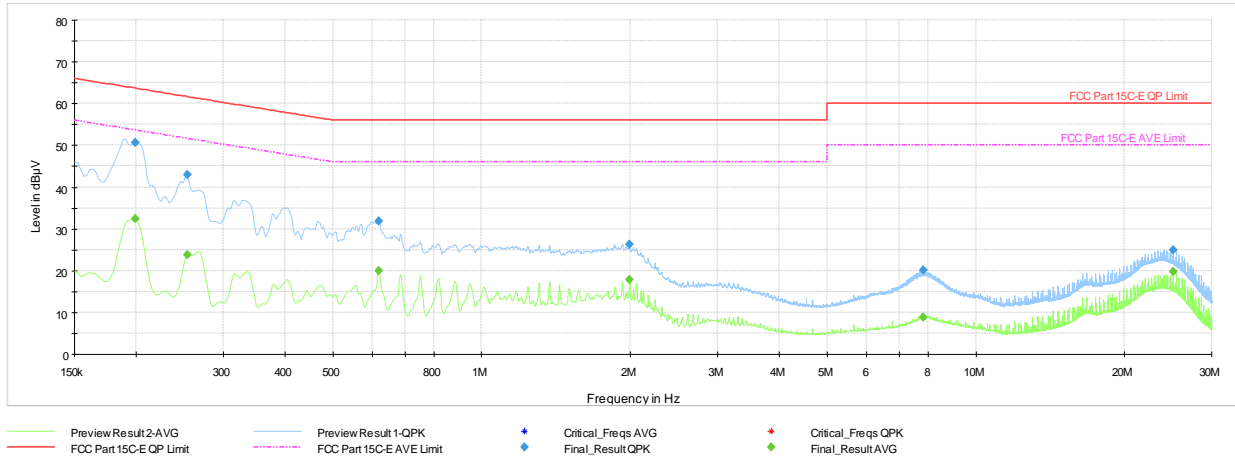


Plot 7-69. AC Line Conducted Emission with 802.15.4 Antenna WF9 (L1, 250 kbps, ePA - Ch.11, with Laptop)

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.193	FINAL	—	34.38	53.92	-19.54	L1	GND
0.193	FINAL	49.8	—	63.92	-14.17	L1	GND
0.256	FINAL	—	26.15	51.57	-25.42	L1	GND
0.256	FINAL	42.1	—	61.57	-19.50	L1	GND
0.623	FINAL	—	18.25	46.00	-27.75	L1	GND
0.623	FINAL	32.4	—	56.00	-23.57	L1	GND
1.867	FINAL	30.0	—	56.00	-25.99	L1	GND
1.867	FINAL	—	18.60	46.00	-27.40	L1	GND
7.465	FINAL	23.1	—	60.00	-36.88	L1	GND
7.465	FINAL	—	9.98	50.00	-40.02	L1	GND
22.799	FINAL	—	14.40	50.00	-35.60	L1	GND
22.799	FINAL	23.4	—	60.00	-36.58	L1	GND

Table 7-27. AC Line Conducted Emission with 802.15.4 Antenna WF9 (L1, 250 kbps, ePA - Ch.11, with Laptop)

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Plot 7-70. AC Line Conducted Emission with 802.15.4 Antenna WF9 (N, 250 kbps, ePA - Ch.11, with Laptop)

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.200	FINAL	—	32.43	53.63	-21.21	N	GND
0.200	FINAL	50.7	—	63.63	-12.90	N	GND
0.254	FINAL	—	23.83	51.64	-27.81	N	GND
0.254	FINAL	42.9	—	61.64	-18.75	N	GND
0.620	FINAL	—	20.02	46.00	-25.98	N	GND
0.620	FINAL	31.9	—	56.00	-24.07	N	GND
1.993	FINAL	26.3	—	56.00	-29.68	N	GND
1.993	FINAL	—	17.83	46.00	-28.17	N	GND
7.820	FINAL	20.1	—	60.00	-39.92	N	GND
7.820	FINAL	—	8.83	50.00	-41.17	N	GND
25.114	FINAL	—	19.70	50.00	-30.30	N	GND
25.114	FINAL	25.0	—	60.00	-35.02	N	GND

Table 7-28. AC Line Conducted Emission with 802.15.4 Antenna WF9 (N, 250 kbps, ePA - Ch.11, with Laptop)

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8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Apple Tablet Device FCC ID: BCGA2836 and IC: 579C-A2836** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules and RSS-247 of the Innovation, Science and Economic Development Canada Rules.

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