



## Element Materials Technology

(formerly PCTEST)

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## MEASUREMENT REPORT FCC PART 15.225 / ISED RSS-210 NFC

**Applicant Name:**

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

**Date of Testing:**

6/10/2025 - 7/28/2025

**Test Report Issue Date:**

8/5/2025

**Test Site/Location:**

Element Materials Technology, Morgan Hill, CA, USA

**Test Report Serial No.:**

1C2503270031-08.BCG

**FCC ID:** BCG-A3333

**IC:** 579C-A3333

**APPLICANT:** Apple Inc.

**Application Type:**

Certification

**Model/HVIN:**

A3333, A3451

**EUT Type:**

Watch

**Frequency:**

13.56MHz

**FCC Classification:**

Low Power Communications Device Transmitter (DXX)

**FCC Rule Part(s):**

Part 15 Subpart C (15.225)

**ISED Specification:**

RSS-210 Issue 11

**Test Procedure(s):**

ANSI C63.10-2020

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. Test results reported herein relate only to the item(s) tested.

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

RJ Ortanez

Executive Vice President



CERT #2041.02

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## 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 Watch FCC ID: BCG-A3333** and **IC: 579C-A3333**. The test data contained in this report pertains only to the emissions due to the NFC transmitter of the EUT.

**Test Device Serial No.:** K5VH3Q4MW9, J3CK74P7F7, FWP22H9QWP, FMPYWKV72T, DLCHG2000CM0000TX9, CN9F52LW1M

### 2.2 Device Capabilities

This device contains the following capabilities:

802.11b/g/n WLAN, 802.11a/n UNII, 802.15.4 ab-NB, Bluetooth (1x, EDR, HDR4, HDR8, LE1M, LE2M), NFC, UWB, 60.5GHz Transmitter

**Note:** The device supports different modes, types, and data rates of NFC signal.

Mode	Type	Data Rate
CE (Card Emulation)	A	848 kbps
	A	424 kbps
	A	212 kbps
	A	106 kbps
	B	848 kbps
	B	424 kbps
	B	212 kbps
	B	106 kbps
	F	424 kbps
	F	212 kbps
Reader	A	848 kbps
	A	424 kbps
	A	212 kbps
	A	106 kbps
	B	848 kbps
	B	424 kbps
	B	212 kbps
	B	106 kbps
	F	424 kbps
	F	212 kbps
	100% ASK 1 out of 4	26.48 kbps
	10 % ASK 1 out of 4	26.48 kbps
	100% ASK 1 out of 256	1.66 kbps
	10 % ASK 1 out of 256	1.66 kbps
	LPCD	0 kbps

**Table 2-1. NFC Configuration**

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## 2.3 Test Support Equipment

1	Apple Macbook w/AC/DC Adapter	Model: Model:	A1398 A1435	S/N: S/N:	FVFDHG8TP3XY N/A
2	Apple USB-C cable w/ Charging Dock w/ Cradle	Model: Model: Model:	N/A A3276 N/A	S/N: S/N: S/N:	N/A DQ84112016A08V22V CYV4225004D23LE01MEVR
3	Apple Magnetic Charger Apple Magnetic Charger	Model: Model:	A2515 A2879	S/N: S/N:	DLC313306ZQ1NR1A7 DLCH5T0012A00000WB
4	Pathfinder Davenport SiP Socket	Model: Model:	920-15901-01 P1 N22X B PF 162	S/N: S/N:	DLCH640006H0000QA0 DLCH8J000LH0000WXE
5	DC Power Supply	Model:	KPS3010D	S/N:	N/A

**Table 2-2. Test Support Equipment List**

## 2.4 Test Configuration

The EUT was tested per the guidance of ANSI C63.10-2020. ANSI C63.10-2020 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing. See Sections 3.2 for AC line conducted emissions test setups, 3.3 for radiated emissions test setups.

The worst case configuration was investigated for all combinations of the various types of wristbands, metal and non-metal wristbands. The EUT was also investigated with and without wireless charger. The worst case configuration found was used for all testing.

All TX configurations including modes, types and data rates has been investigated and worst case is 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 emission and radiated emission below 1GHz, following configuration were investigated and worst case was reported.

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

## 2.5 Software and Firmware

The test was conducted with firmware version watchOS 26 installed on the EUT.

## 2.6 EMI Suppression Device(s)/Modifications

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

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## 3.0 DESCRIPTION OF TEST

### 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) were used in the measurement of the EUT.

Deviation from measurement procedure.....**None**

### 3.2 AC Line Conducted Emissions

The line-conducted facility is located inside a 7m x 3.66m x 2.7m shielded enclosure. The shielded enclosure is manufactured by AP Americas. The shielding effectiveness of the shielded room is in accordance with MIL-Std-285 or NSA 65-5. A 1m x 1.5m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50Ω/50µH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. The external power line filter is an ETS Lindgren Model LPRX-4X30 (100dB Attenuation, 14kHz-18GHz) and the two EMI/RFI filters are EPCOS 2X60A Power Line Filter (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 7.6. 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 three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions.

### 3.4 Environmental Conditions

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

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## 4.0 ANTENNA REQUIREMENTS

### Excerpt from §15.203 of the FCC Rules/Regulations:

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

- The antenna of the EUT is **permanently attached**.
- This unit was tested with its standard battery.

### 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)
AC Line Conducted Disturbance	1.91
Radiated Disturbance (<30MHz)	4.12
Radiated Disturbance (30MHz - 1GHz)	4.85

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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-26.5GHz PXA Signal Analyzer	10/31/2024	Annual	10/31/2025	MY55330128
ESPEC	SU-241	Tabletop Temperature Chamber	10/24/2024	Annual	10/24/2025	92009574
Keysight Technology	N9040B	UXA Signal Analyzer	6/9/2025	Annual	6/9/2026	MY57212015
Rohde & Schwarz	FSV40	Signal Analyzer (10Hz-40GHz)	5/20/2025	Annual	5/20/2026	101619
Rohde & Schwarz	ESW44	EMI Test Receiver	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	HFH2-Z2	Loop Antenna	5/12/2025	Annual	5/12/2026	100546
Rohde & Schwarz	ENV216	Two-Line V-Network	4/25/2025	Annual	4/25/2026	101364
Schwarzbeck	VULB 9162	Bilog Antenna (30MHz - 6GHz)	5/7/2025	Annual	5/7/2026	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 DATA

### 7.1 Summary

Company Name: Apple Inc.  
 FCC ID: BCG-A3333  
 IC: 579C-A3333  
 FCC Classification: Low Power Communications Device Transmitter (DXX)  
 Frequencies Examined: 13.56MHz

FCC Part Section(s)	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
2.1049	RSS-Gen [6.7]	Bandwidth Measurement	N/A	RADIATED	N/A	Section 7.2
15.225 (e)	RSS-210 [B.6]	Frequency Stability Tolerance	$\pm 0.01\%$ of Operating Frequency	Temperature Chamber	PASS	Section 7.3
15.225 (a)(b)(c)	RSS-210 [B.6]	In-Band Emissions	15,848 $\mu$ V/m @ 30m 13.553 – 13.567 MHz	RADIATED	PASS	Section 7.4
			334 $\mu$ V/m @ 30m 13.410 – 13.553 MHz 13.567 – 13.710 MHz		PASS	
15.225 (d) 15.209	RSS-Gen [8.9]	Out-of-Band Emissions	Emissions outside of the specified band (13.110 – 14.010 MHz) must meet the radiated limits detailed in 15.209 (RSS-Gen [8.9])		PASS	Section 7.5
15.207	RSS-Gen [8.8]	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.207 limits (RSS-Gen)		AC LINE CONDUCTED	PASS
						Section 7.6

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

**Note:**

1. This unit was tested with its standard battery.
2. All modes of operation were investigated. The test results shown in the following sections represent the worst case emissions.
3. 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.
4. For radiated emissions, the automated measurement software utilized is Rohde & Schwarz EMC32, Version 10.50.40.

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## 7.2 Bandwidth Measurement

§2.1049; RSS-Gen (6.7)

### Test Overview and Limit

The bandwidth at 20dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the receive antenna while the EUT is operating in transmission mode at the appropriate frequency. 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 – Section 6.9.2

### Test Settings

1. The signal analyzers' automatic bandwidth measurement capability of the spectrum analyzer was used to perform the 20dB bandwidth measurement. The "X" dB bandwidth parameter was set to X = 20. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission
2. RBW = 1 – 5% OBW
3. VBW  $\geq$  3 x RBW
4. Reference level set to keep signal from exceeding maximum input mixer level for linear operation.
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

### Test Setup

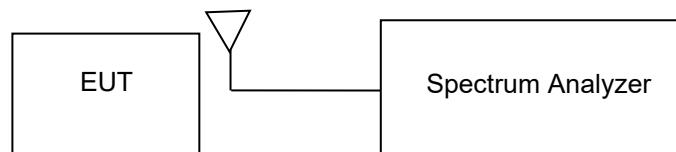


Figure 7-1. Test Instrument & Measurement Setup

### Test Notes

None

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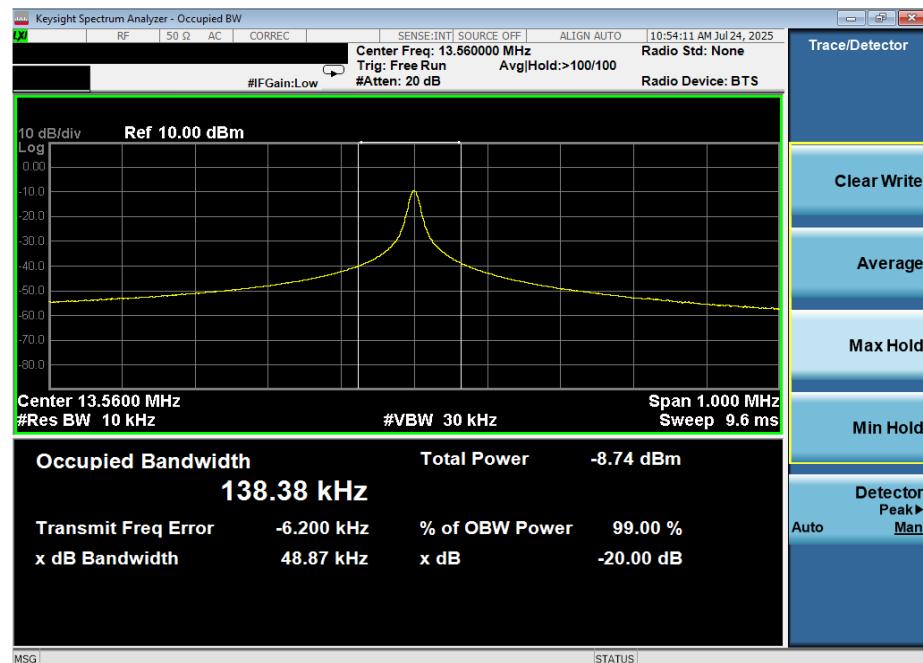
Frequency	Configurations	20dB Bandwidth [kHz]	99% OBW [kHz]
13.56 MHz	CE A 848kbps	49.10	140.57
13.56 MHz	CE B 106kbps	48.87	138.38
13.56 MHz	CE F 424kbps	48.75	146.71
13.56 MHz	Reader 10% Ask 1 out of 4	132.10	393.91
13.56 MHz	Reader 10% Ask 1 out of 256	132.10	392.47

**Table 7-2. 20dB and 99% Bandwidth Measurement**

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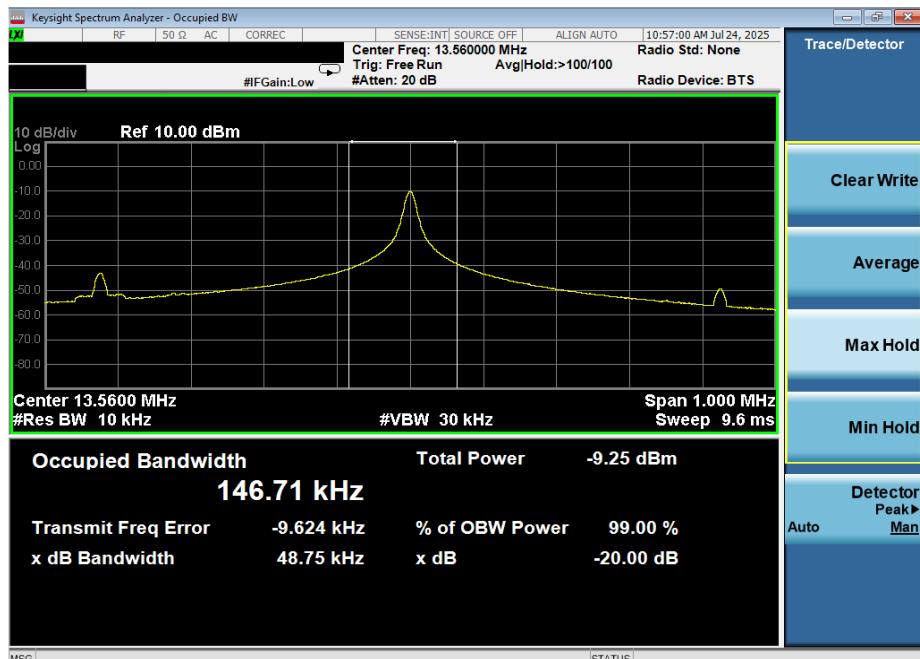


Plot 7-1. 20dB and 99% Bandwidth Plot (CE A 848kbps)



Plot 7-2. 20dB and 99% Bandwidth Plot (CE F 106kbps)

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**Plot 7-3. 20dB and 99% Bandwidth Plot (CE F 424kbps)**



**Plot 7-4. 20dB and 99% Bandwidth Plot (Reader 10% ASK 1 out of 4)**

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**Plot 7-5. 20dB and 99% Bandwidth Plot (Reader 10% ASK 1 out of 256)**

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## 7.3 Frequency Stability Test Data

§15.225; RSS-210 (B.6)

### Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.10-2020. The frequency stability of the transmitter is measured by:

- Temperature:** The temperature is varied from -20°C to +50°C in 10°C increments using an environmental chamber.
- Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

***The frequency stability of the transmitter shall be maintained within  $\pm 0.01\%$  of the center frequency.***

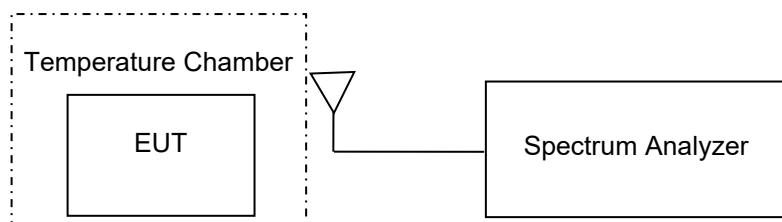
### Test Procedure Used

ANSI C63.10-2020 – Section 6.8

### Test Settings

- The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
- The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
- Frequency measurements are made at 10°C intervals ranging from -20°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

### Test Setup



**Figure 7-2. Test Instrument & Measurement Setup**

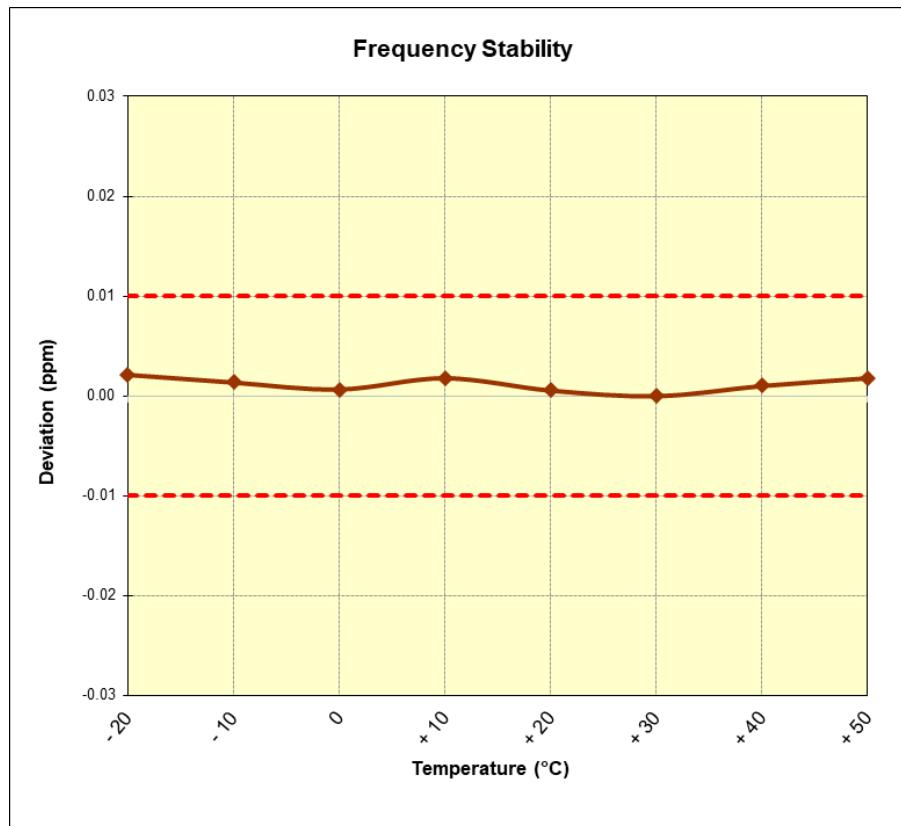
### Test Notes

All possible configurations were investigated and only the worst case is reported.

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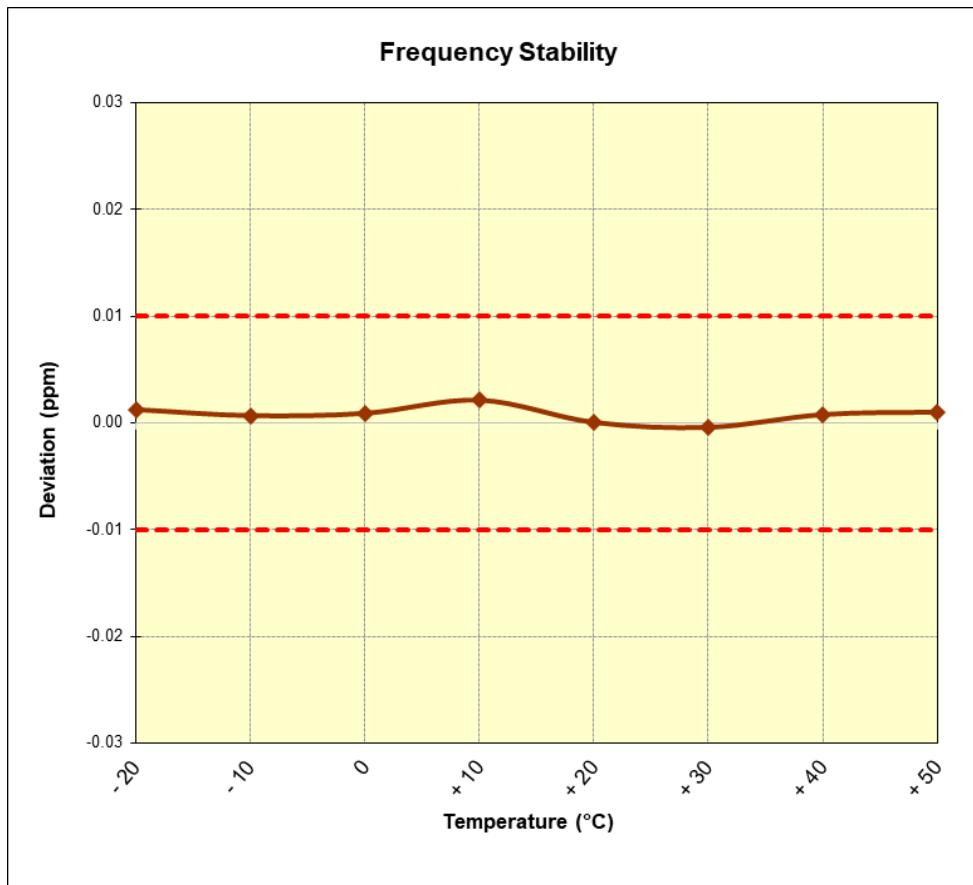
**Frequency Stability Test Data**
§15.225; RSS-210 (B.6)

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 20	13,560,294	293.5	0.0021645
100 %		- 10	13,560,187	187.0	0.0013791
100 %		0	13,560,090	90.0	0.0006637
100 %		+ 10	13,560,247	247.0	0.0018215
100 %		+ 20	13,560,076	75.5	0.0005568
100 %		+ 30	13,559,998	-2.5	-0.0000184
100 %		+ 40	13,560,139	138.5	0.0010214
100 %		+ 50	13,560,247	247.0	0.0018215
85 %		+ 20	13,560,236	236.0	0.0017404
115 %	4.37	+ 20	13,560,308	307.5	0.0022677

**Table 7-3. Frequency Stability Test Data (CE F 424kbps)**

**Figure 7-3. Frequency Stability Plot (CE F 424kbps)**

FCC ID: BCG-A3333 IC: 579C-A3333	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 20	13,560,168	168.0	0.0012389
100 %		- 10	13,560,091	91.0	0.0006711
100 %		0	13,560,121	121.0	0.0008923
100 %		+ 10	13,560,289	289.0	0.0021313
100 %		+ 20	13,560,004	4.0	0.0000295
100 %		+ 30	13,559,941	-59.5	-0.0004388
100 %		+ 40	13,560,105	104.5	0.0007706
100 %		+ 50	13,560,137	137.0	0.0010103
85 %		+ 20	13,560,277	277.0	0.0020428
115 %	4.37	+ 20	13,560,119	119.0	0.0008776

**Table 7-4. Frequency Stability Test Data (Reader A 848kbps)**

**Figure 7-4. Frequency Stability Plot (Reader A 848kbps)**

FCC ID: BCG-A3333 IC: 579C-A3333	 <b>element</b>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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## 7.4 In-Band Radiated Spurious Emissions

§15.225(a)(b)(c); RSS-210 (B.6)

### Test Overview and Limit

The EUT was tested from 13.110 – 14.010 MHz. All in-band radiated spurious emissions are measured with a spectrum analyzer connected to a loop antenna while the EUT is operating at appropriate frequencies. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

***All in-band emissions appearing within the 13.110-14.010 MHz band must not exceed the limits shown in Table 7-5.***

Frequency [MHz]	Field Strength [ $\mu$ V/m]	Measured Distance [Meters]
13.553-13.567 MHz	15,848	30
13.410-13.553 MHz and 13.567-13.710 MHz	334	30
13.110-13.410 MHz and 13.710-14.010 MHz	106	30

**Table 7-5. Radiated Limits**

### Test Procedures Used

ANSI C63.10-2020 – Section 6.4.7

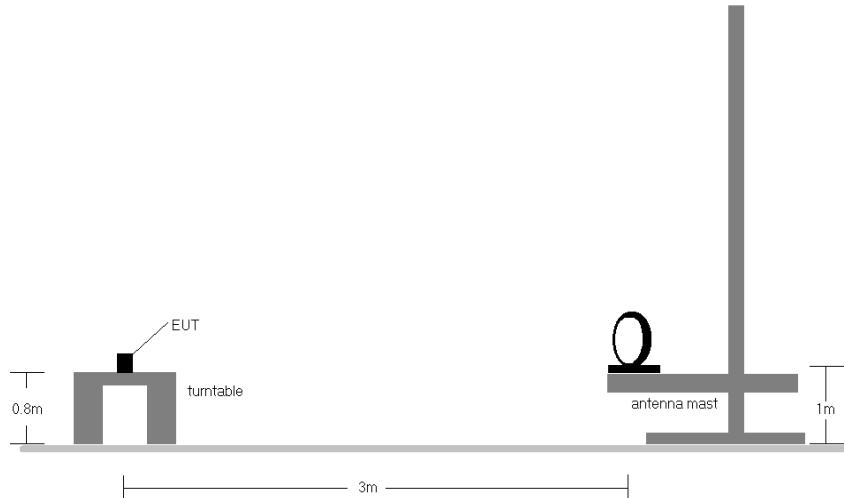
### Test Settings

1. RBW = 9kHz
2. VBW  $\geq$  3 x RBW
3. Detector = peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

FCC ID: BCG-A3333 IC: 579C-A3333	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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### Test Setup

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



**Figure 7-5. Radiated Test Setup**

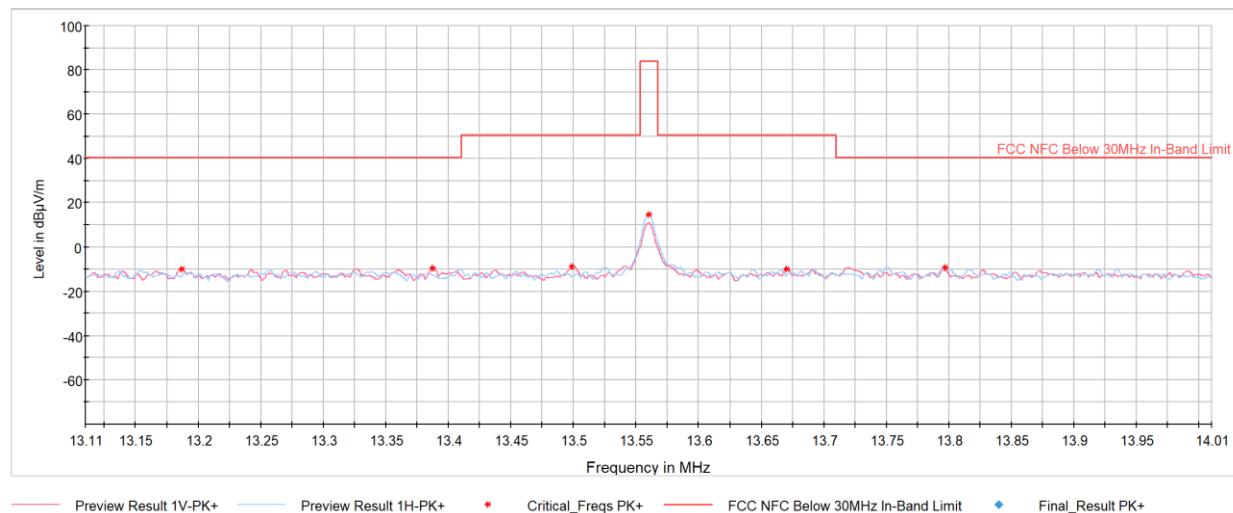
### Test Notes:

1. All emissions lying in restricted bands specified in §15.225 and RSS-210 are below the limit shown in Table 7-5.
2. All measurements were performed using a loop antenna. The antenna was positioned in three orthogonal positions (X front, Y side, Z top) and the position with the highest emission level was recorded.
3. All emissions were greater than 20 dB below the limit.
4. The EUT was positioned in three orthogonal planes to determine the orientation resulting in the worst case emissions.
5. Measurements were performed at 3m and the data was extrapolated to the specified measurement distance of 30m using the square of an inverse linear distance extrapolation factor (40 dB/decade) as specified in §15.31(f)(2). Distance Extrapolation Factor =  $20 \log_{10}(30/3)^2 = 40\text{dB}$ .
6. The spectrum was investigated from 9kHz up to 30MHz using the loop antenna. Only the emissions shown in the table below were found to be significant.
7. All measurements were recorded using a spectrum analyzer employing a peak detector unless otherwise noted as quasi-peak for emissions below 960MHz.
8. All possible configurations were investigated and only the worst case is reported.

### Sample Calculation

- Field Strength Level  $[\text{dB}_{\mu\text{V/m}}] = \text{Analyzer Level } [\text{dBm}] + 107 + \text{AFCL } [\text{dB/m}] + \text{Distance Extrapolation Factor } [\text{dB}]$
- $\text{AFCL } [\text{dB/m}] = (\text{Antenna Factor } [\text{dB/m}] + \text{Cable Loss } [\text{dB}] + \text{Attenuator } [\text{dB}]) - \text{Preamplifier Gain } [\text{dB}]$
- $\text{Limit } [\text{dB}_{\mu\text{V/m}}] = 20 * \text{Log } (\text{Limit } [\mu\text{V/m}])$
- Margin  $[\text{dB}] = \text{Field Strength Level } [\text{dB}_{\mu\text{V/m}}] - \text{Limit } [\text{dB}_{\mu\text{V/m}}]$

FCC ID: BCG-A3333 IC: 579C-A3333	 <b>element</b>		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2503270031-08.BCG	Test Dates: 6/10/2025 - 7/28/2025	EUT Type: Watch		Page 21 of 37

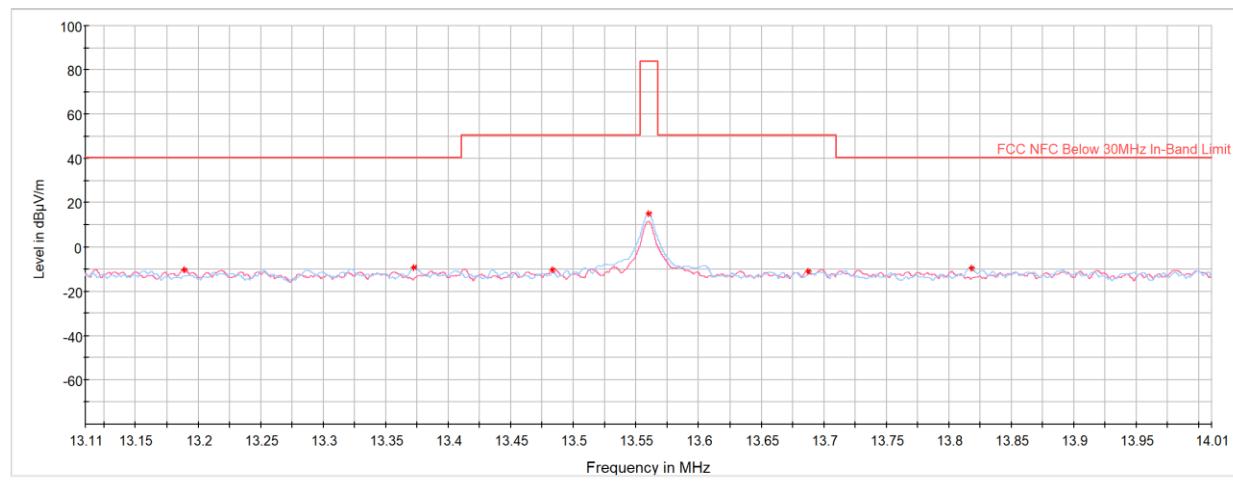
**In-Band Radiated Spurious Emission Measurements**
§15.225(a)(b)(c); RSS-210 (B.6)


**Plot 7-6. In Band Radiated Spurious Emissions (CE F 424kbps, with AC/DC Adapter and Magnetic Charger)**

Frequency [MHz]	Detector	Ant. Pol. [X/Y/Z]	Antenna Height [cm]	Turntable Azimuth [degree]	Level [dBm]	AFCL [dB/m]	Field Strength @3m [dBµV/m]	Field Strength @30m [dBµV/m]	Limit @30m [dBµV/m]	Margin [dB]
13.187	Max Peak	X	100	274	-98.21	21.10	29.89	-10.11	40.51	-50.62
13.387	Max Peak	Y	100	158	-97.82	21.12	30.30	-9.70	40.51	-50.21
13.499	Max Peak	Y	100	125	-97.12	21.13	31.01	-8.99	50.47	-59.46
13.560	Max Peak	X	100	208	-73.54	21.13	54.59	14.59	84.00	-69.41
13.670	Max Peak	Y	100	274	-97.93	21.14	30.21	-9.79	50.47	-60.26
13.797	Max Peak	Y	100	173	-97.51	21.16	30.65	-9.35	40.51	-49.86

**Table 7-6. In-Band Radiated Measurements (CE F 424kbps, with AC/DC Adapter and Magnetic Charger)**

FCC ID: BCG-A3333 IC: 579C-A3333	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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**Plot 7-7. In Band Radiated Spurious Emissions (Reader A 848kbps, with AC/DC Adapter and Magnetic Charger)**

Frequency [MHz]	Detector	Ant. Pol. [X/Y/Z]	Antenna Height [cm]	Turntable Azimuth [degree]	Level [dBm]	AFCL [dB/m]	Field Strength @3m [dBμV/m]	Field Strength @30m [dBμV/m]	Limit @30m [dBμV/m]	Margin [dB]
13.189	Max Peak	X	100	37	-98.29	21.10	29.81	-10.19	40.51	-50.70
13.372	Max Peak	X	100	62	-97.50	21.12	30.62	-9.38	40.51	-49.89
13.483	Max Peak	X	100	338	-98.31	21.13	29.82	-10.18	50.47	-60.65
13.560	Max Peak	X	100	223	-73.15	21.13	54.98	14.98	84.00	-69.02
13.687	Max Peak	Y	100	86	-99.04	21.15	29.11	-10.89	50.47	-61.36
13.818	Max Peak	Y	100	112	-97.92	21.16	30.24	-9.76	40.51	-50.27

**Table 7-7. In-Band Radiated Measurements (Reader A 848kbps, with AC/DC Adapter and Magnetic Charger)**

FCC ID: BCG-A3333 IC: 579C-A3333	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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## 7.5 Out-of-Band Radiated Spurious Emissions

§15.209 §15.225(d); RSS-Gen (8.9)

### Test Overview and Limit

The EUT was tested from 9kHz up to the 1GHz excluding the band 13.110 – 14.010 MHz. All measurements were recorded using a spectrum analyzer employing a peak detector unless otherwise noted as quasi-peak for emissions below 960MHz.

***All out-of-band emissions appearing outside of the 13.110-14.010 MHz band must not exceed the limits shown in Table 7-8.***

Frequency	Field Strength [ $\mu$ 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 7-8. Radiated Limits – Out of band**

### Test Procedures Used

ANSI C63.10-2020 – Section 6.5.4

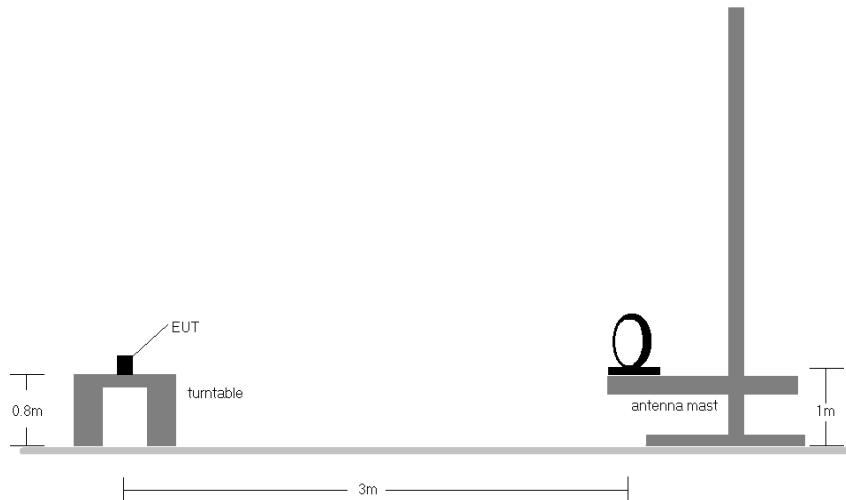
### Test Settings

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 9kHz for emissions below 30MHz and 100kHz for emissions between 30MHz and 1GHz
3. VBW  $\geq$  3 x RBW
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

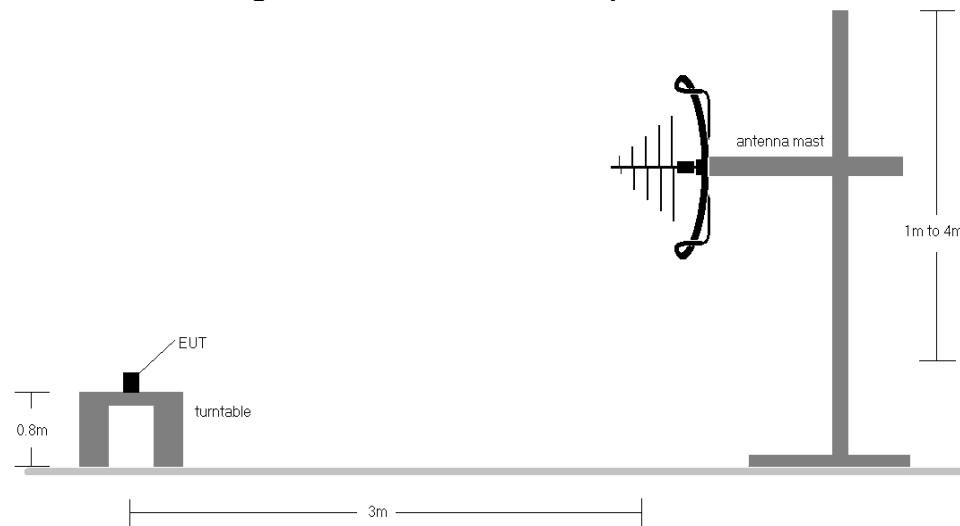
FCC ID: BCG-A3333 IC: 579C-A3333	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2503270031-08.BCG	Test Dates: 6/10/2025 - 7/28/2025	EUT Type: Watch	Page 24 of 37

**Test Setup**

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



**Figure 7-6. Radiated Test Setup < 30MHz**



**Figure 7-7. Radiated Test Setup > 30MHz**

FCC ID: BCG-A3333 IC: 579C-A3333	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2503270031-08.BCG	Test Dates: 6/10/2025 - 7/28/2025	EUT Type: Watch	Page 25 of 37

**Test Notes:**

1. A loop antenna was used to investigate emissions below 30MHz.
2. Radiated measurements below 30MHz were measured using a loop antenna. The antenna was positioned in three orthogonal planes (X front, Y side, Z top) and the position with the highest emission level is reported.
3. The EUT was positioned in three orthogonal planes to determine the orientation resulting in the worst case emissions.
4. Both configurations below were investigated, and the worst case has been reported.
  - a. EUT powered by AC/DC adaptor via USB-C cable with magnetic charger
  - b. EUT powered by host PC via USB-C cable with magnetic charger
5. The spectrum is measured from 9kHz to the 10<sup>th</sup> harmonic and the worst-case emissions are reported.
6. No spurious emissions levels were found to be greater than the level of the fundamental.
7. All possible configurations were investigated and only the worst case is reported.
8. The radiated limits for intentional radiators are shown in Table 7-8. At frequencies below 30 MHz, measurements were performed at 3m and the data was extrapolated to the specified measurement distance using the square of an inverse linear distance extrapolation factor (40 dB/decade) as specified in §15.31(f)(2).
  - a. Distance Extrapolation Factor  $_{dB}$  =  $20 \log_{10}(300/3)^2 = 80$ dB [For emissions within 9kHz-490kHz]
  - b. Distance Extrapolation Factor  $_{dB}$  =  $20 \log_{10}(30/3)^2 = 40$ dB [For emissions within 490kHz-30MHz]

**Sample Calculation**

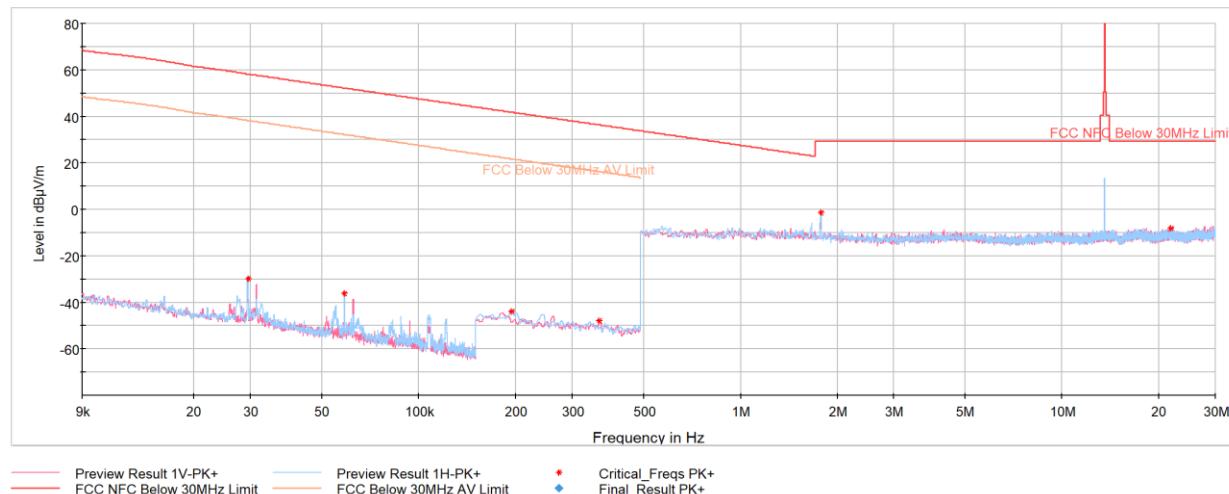
- Field Strength Level  $_{dB\mu V/m}$  = Analyzer Level  $_{dBm}$  + 107 + AFCL  $_{dB/m}$  + Distance Extrapolation Factor  $_{dB}$
- Distance Extrapolation Factor  $_{dB}$  will be added only when applicable.
- AFCL  $_{dB/m}$  = (Antenna Factor  $_{dB/m}$  + Cable Loss  $_{dB}$  + Attenuator  $_{dB}$ ) – Preamplifier Gain  $_{dB}$
- Margin  $_{dB}$  = Field Strength Level  $_{dB\mu V/m}$  – Limit  $_{dB\mu V/m}$

FCC ID: BCG-A3333 IC: 579C-A3333	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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## Out-of-Band Radiated Spurious Emissions – Below 30MHz

§15.209 §15.225(d); RSS-Gen (8.9)

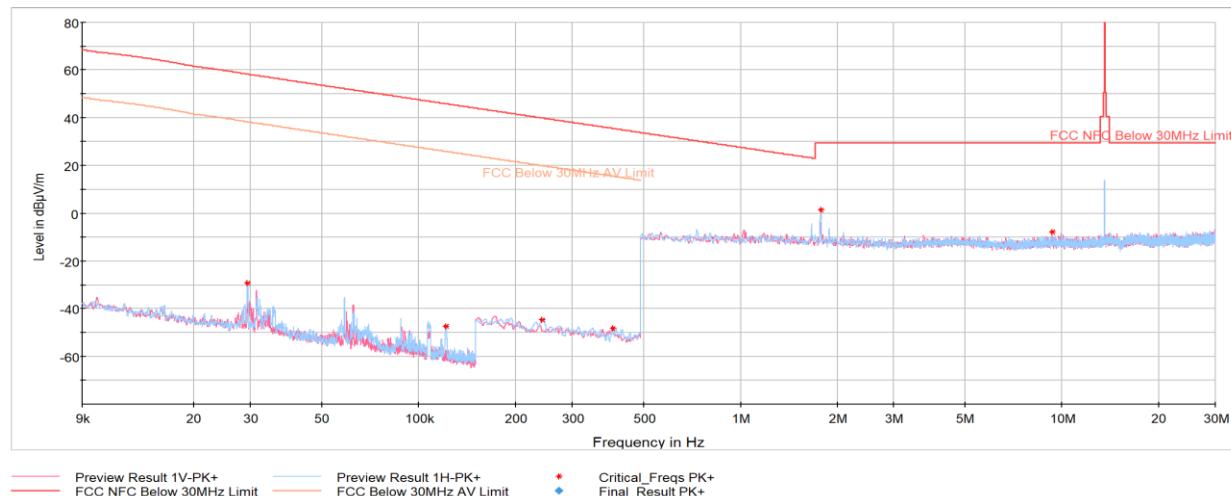


**Plot 7-8. Radiated Spurious Emissions 9kHz – 30MHz (CE F 424kbps, with AC/DC Adapter and Magnetic Charger)**

Frequency [MHz]	Detector	Ant. Pol. [X/Y/Z]	Antenna Height [cm]	Turntable Azimuth [degree]	Level [dBm]	AFCL [dB/m]	Field Strength @3m [dBµV/m]	Field Strength @30m [dBµV/m]	Limit @30m [dBµV/m]	Field Strength @300m [dBµV/m]	Limit @300m [dBµV/m]	Margin [dB]
0.029	Max Peak	X	100	261	-76.85	20.12	50.27	-	-29.73	58.25	-	-87.98
0.059	Max Peak	X	100	218	-82.33	19.34	44.01	-	-35.99	52.23	-	-88.22
0.195	Max Peak	X	100	261	-89.95	19.05	36.10	-	-43.90	41.82	-	-85.72
0.364	Max Peak	Y	100	301	-93.92	18.97	32.05	-	-47.95	36.39	-	-84.34
1.774	Max Peak	X	100	132	-88.40	19.98	38.58	-1.42	29.54	-	-	-30.96
21.776	Max Peak	X	100	215	-97.36	22.47	32.11	-7.89	29.54	-	-	-37.43

**Table 7-9. Radiated Measurements (CE F 424kbps, with AC/DC Adapter and Magnetic Charger)**

FCC ID: BCG-A3333 IC: 579C-A3333		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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**Plot 7-9. Radiated Spurious Emissions 9kHz – 30MHz (Reader A 848kbps, with AC/DC Adapter and Magnetic Charger)**

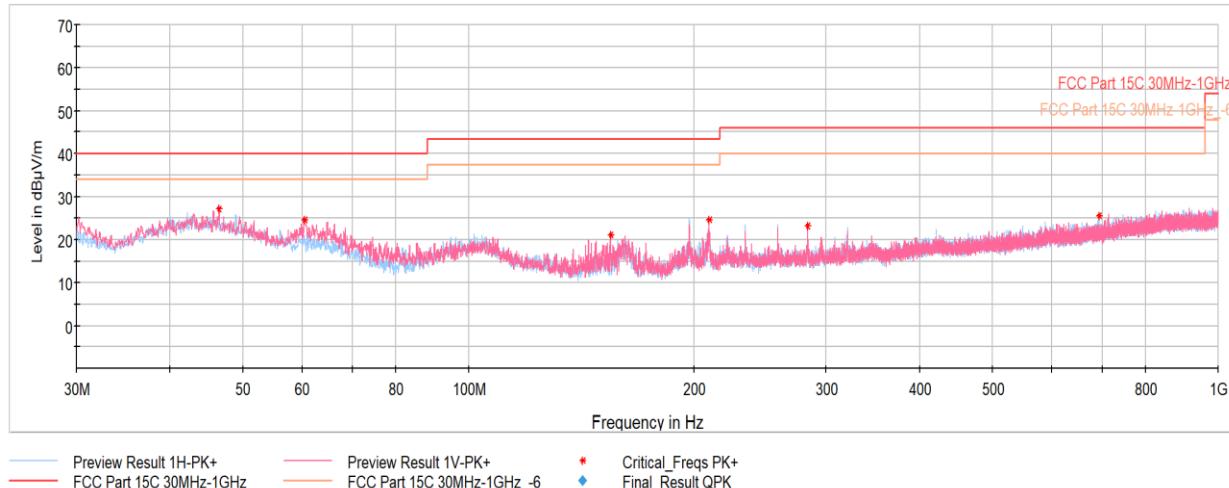
Frequency [MHz]	Detector	Ant. Pol. [X/Y/Z]	Antenna Height [cm]	Turntable Azimuth [degree]	Level [dBm]	AFCL [dB/m]	Field Strength @3m [dBµV/m]	Field Strength @30m [dBµV/m]	Limit @30m [dBµV/m]	Field Strength @300m [dBµV/m]	Limit @300m [dBµV/m]	Margin [dB]
0.029	Max Peak	Y	100	356	-76.40	20.11	50.71	-	-29.29	58.28	-87.57	
0.121	Max Peak	X	100	159	-93.29	19.00	32.71	-	-47.29	45.93	-93.22	
0.242	Max Peak	Y	100	211	-90.72	19.01	35.29	-	-44.71	39.92	-84.63	
0.401	Max Peak	X	100	111	-94.13	18.97	31.84	-	-48.16	35.54	-83.70	
1.774	Max Peak	Y	100	153	-85.69	19.98	41.29	1.29	29.54	-	-28.25	
9.322	Max Peak	X	100	235	-95.35	20.44	32.09	-7.91	29.54	-	-37.45	

**Table 7-10. Radiated Measurements (Reader A 848kbps, with AC/DC Adapter and Magnetic Charger)**

FCC ID: BCG-A3333 IC: 579C-A3333	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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## Out-of-Band Radiated Spurious Emissions – 30MHz-1GHz

§15.209 §15.225(d); RSS-Gen (8.9)

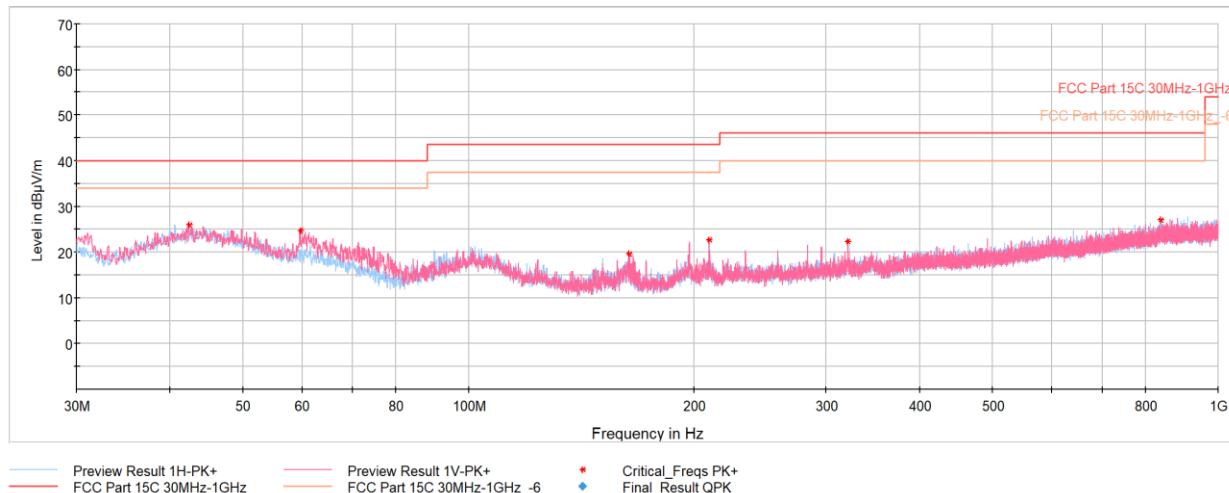


**Plot 7-10. Radiated Spurious Emissions 30MHz – 1GHz (CE F 424kbps, with AC/DC Adapter and Magnetic Charger)**

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]
46.490	Max Peak	V	300	246	-64.53	-15.40	27.07	40.00	-12.93
60.507	Max Peak	V	300	241	-65.07	-17.29	24.64	40.00	-15.36
154.500	Max Peak	V	100	282	-64.91	-20.95	21.14	43.52	-22.38
209.256	Max Peak	V	100	286	-64.05	-18.27	24.68	43.52	-18.84
283.170	Max Peak	V	100	330	-67.84	-15.99	23.17	46.02	-22.85
693.286	Max Peak	H	100	200	-73.90	-7.50	25.60	46.02	-20.42

**Table 7-11. Radiated Measurements (CE F 424kbps, with AC/DC Adapter and Magnetic Charger)**

FCC ID: BCG-A3333 IC: 579C-A3333	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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**Plot 7-11. Radiated Spurious Emissions 30MHz – 1GHz (Reader A 848kbps, with AC/DC Adapter and Magnetic Charger)**

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]
42.416	Max Peak	H	100	156	-65.14	-15.90	25.96	40.00	-14.04
59.682	Max Peak	V	300	278	-65.27	-17.10	24.63	40.00	-15.37
163.860	Max Peak	V	100	238	-66.95	-20.30	19.75	43.52	-23.77
209.547	Max Peak	H	100	291	-65.98	-18.30	22.72	43.52	-20.80
320.467	Max Peak	V	100	105	-69.92	-14.80	22.28	46.02	-23.74
837.865	Max Peak	H	100	111	-75.13	-4.90	26.97	46.02	-19.05

**Table 7-12. Radiated Measurements (Reader A 848kbps, with AC/DC Adapter and Magnetic Charger)**

FCC ID: BCG-A3333 IC: 579C-A3333	 element	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2503270031-08.BCG	Test Dates: 6/10/2025 - 7/28/2025	EUT Type: Watch			

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## 7.6 AC Line Conducted Emissions Measurement

§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 $\mu$ V)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

**Table 7-13. Conducted Limits**

\*Decreases with the logarithm of the frequency.

### Test Procedures Used

ANSI C63.10-2020, 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

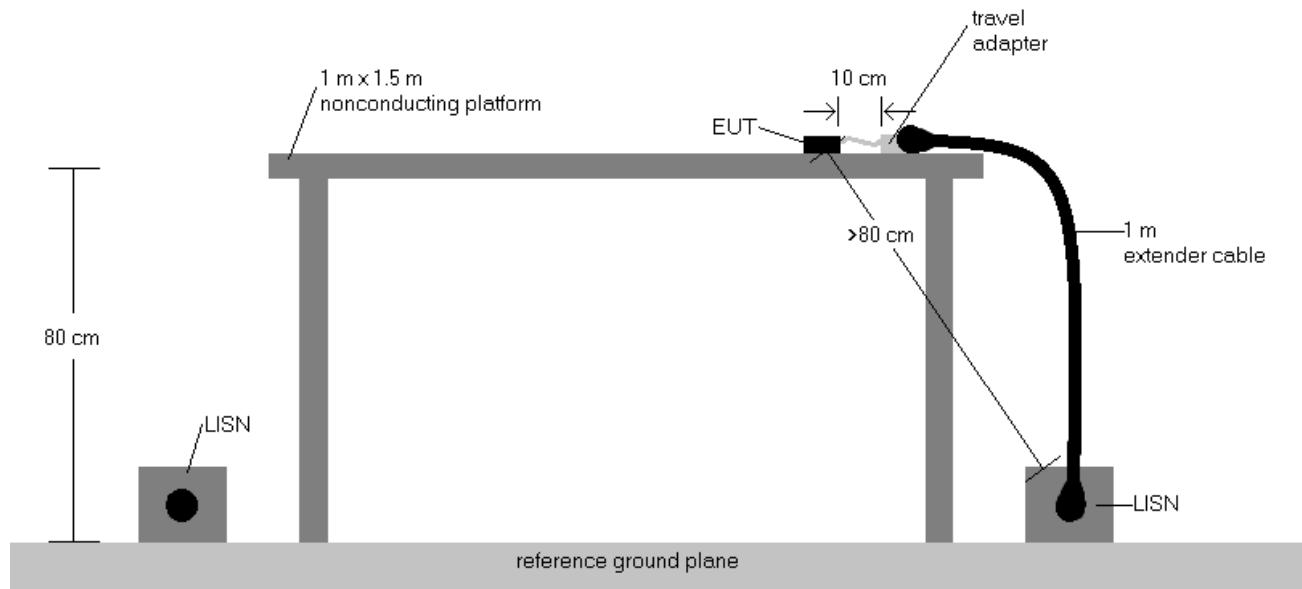
#### Average Measurements

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

FCC ID: BCG-A3333 IC: 579C-A3333	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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## Test Setup

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

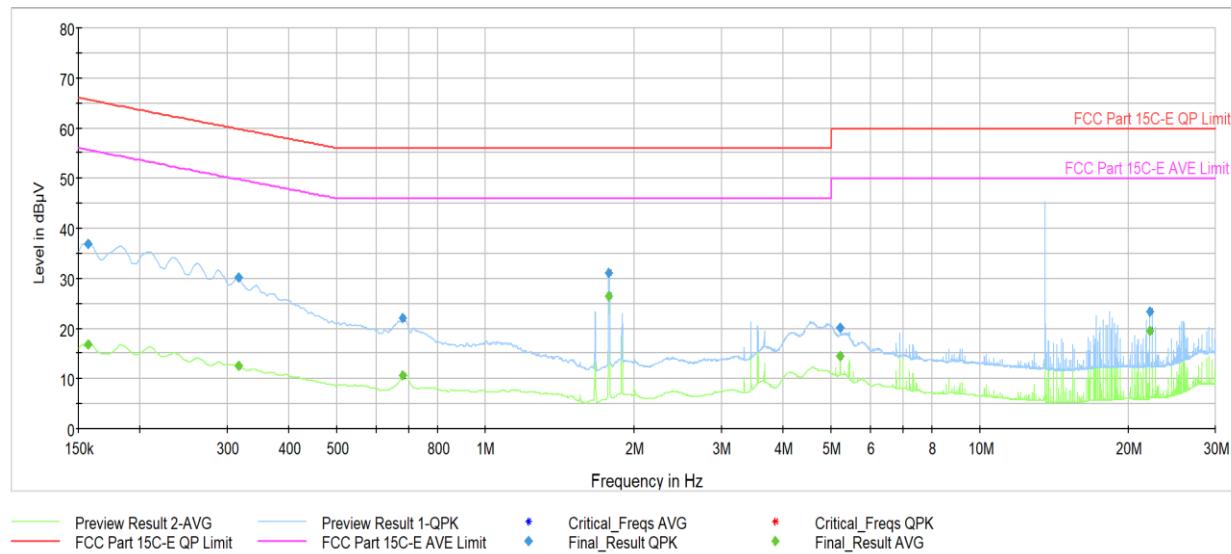


**Figure 7-8. Test Instrument & Measurement Setup**

## Test Notes

1. All modes of operation were investigated and the worst-case emissions are reported.
2. The limit for an intentional radiator from 150kHz to 30MHz are specified in 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 a Quasi-peak and Average detectors.
7. Deviations to the Specifications: None.
8. Both configurations below were investigated, and the worst case has been reported.
  - a. EUT powered by AC/DC adaptor via USB-C cable with magnetic charger
  - b. EUT powered by host PC via USB-C cable with magnetic charger

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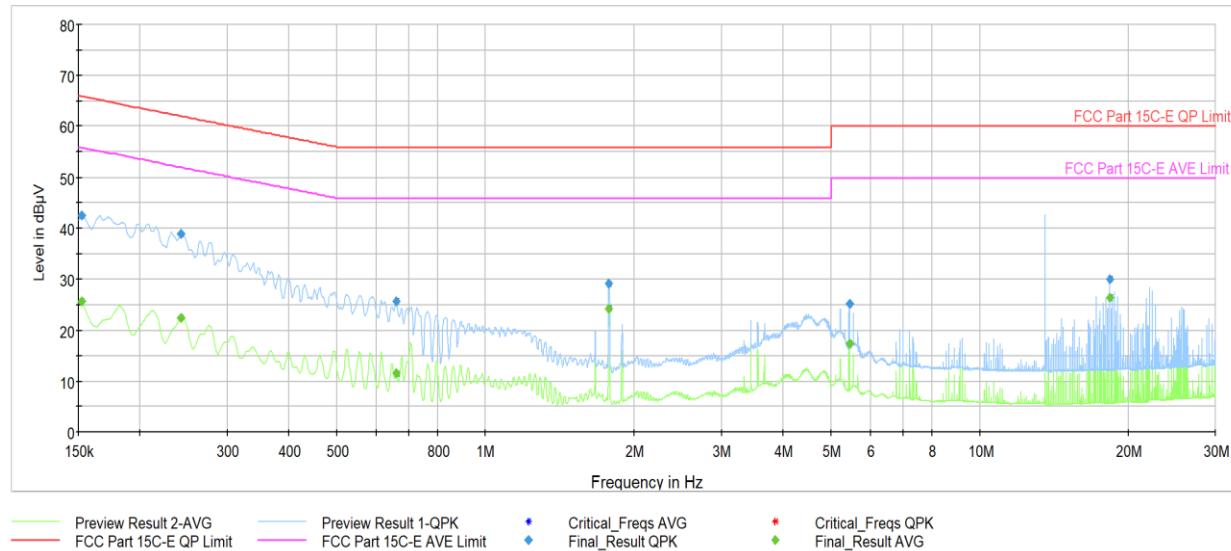


**Plot 7-12. AC Line-Conducted Plot (L1, CE F 424kbps, with AC/DC Adapter and Magnetic Charger)**

Frequency [MHz]	Process State	QuasiPeak [dB $\mu$ V]	Average [dB $\mu$ V]	Limit [dB $\mu$ V]	Margin [dB]	Line	PE
0.157	FINAL	—	16.82	55.63	-38.81	L1	GND
0.157	FINAL	37.0	—	65.63	-28.65	L1	GND
0.317	FINAL	—	12.56	49.80	-37.23	L1	GND
0.317	FINAL	30.1	—	59.80	-29.67	L1	GND
0.679	FINAL	—	10.55	46.00	-35.45	L1	GND
0.679	FINAL	22.0	—	56.00	-34.01	L1	GND
1.777	FINAL	31.2	—	56.00	-24.85	L1	GND
1.777	FINAL	—	26.56	46.00	-19.44	L1	GND
5.222	FINAL	20.1	—	60.00	-39.93	L1	GND
5.222	FINAL	—	14.44	50.00	-35.56	L1	GND
22.110	FINAL	—	19.43	50.00	-30.57	L1	GND
22.110	FINAL	23.4	—	60.00	-36.62	L1	GND

**Table 7-14. AC Line-Conducted Data (L1, CE F 424kbps, with AC/DC Adapter and Magnetic Charger)**

FCC ID: BCG-A3333 IC: 579C-A3333	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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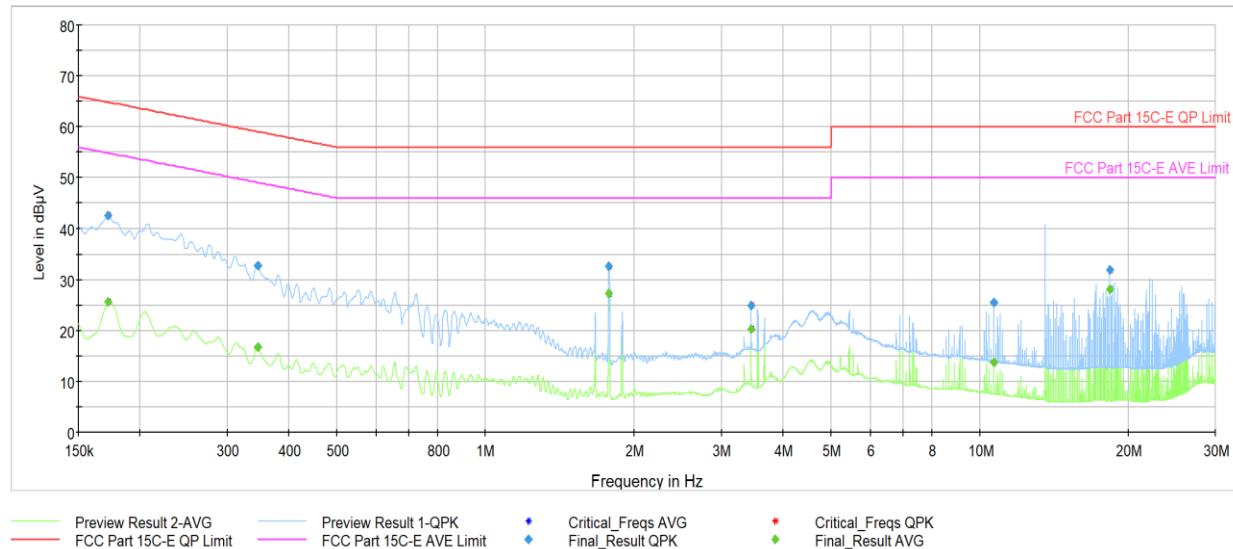


**Plot 7-13. AC Line-Conducted Plot (N, CE F 424kbps, with AC/DC Adapter and Magnetic Charger)**

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.152	FINAL	—	25.67	55.88	-30.20	N	GND
0.152	FINAL	42.6	—	65.88	-23.27	N	GND
0.242	FINAL	—	22.43	52.02	-29.59	N	GND
0.242	FINAL	38.9	—	62.02	-23.15	N	GND
0.661	FINAL	—	11.67	46.00	-34.33	N	GND
0.661	FINAL	25.8	—	56.00	-30.24	N	GND
1.777	FINAL	29.2	—	56.00	-26.85	N	GND
1.777	FINAL	—	24.21	46.00	-21.79	N	GND
5.444	FINAL	25.1	—	60.00	-34.88	N	GND
5.444	FINAL	—	17.29	50.00	-32.71	N	GND
18.332	FINAL	—	26.41	50.00	-23.59	N	GND
18.332	FINAL	30.1	—	60.00	-29.87	N	GND

**Table 7-15. AC Line-Conducted Data (N, CE F 424kbps, with AC/DC Adapter and Magnetic Charger)**

FCC ID: BCG-A3333 IC: 579C-A3333	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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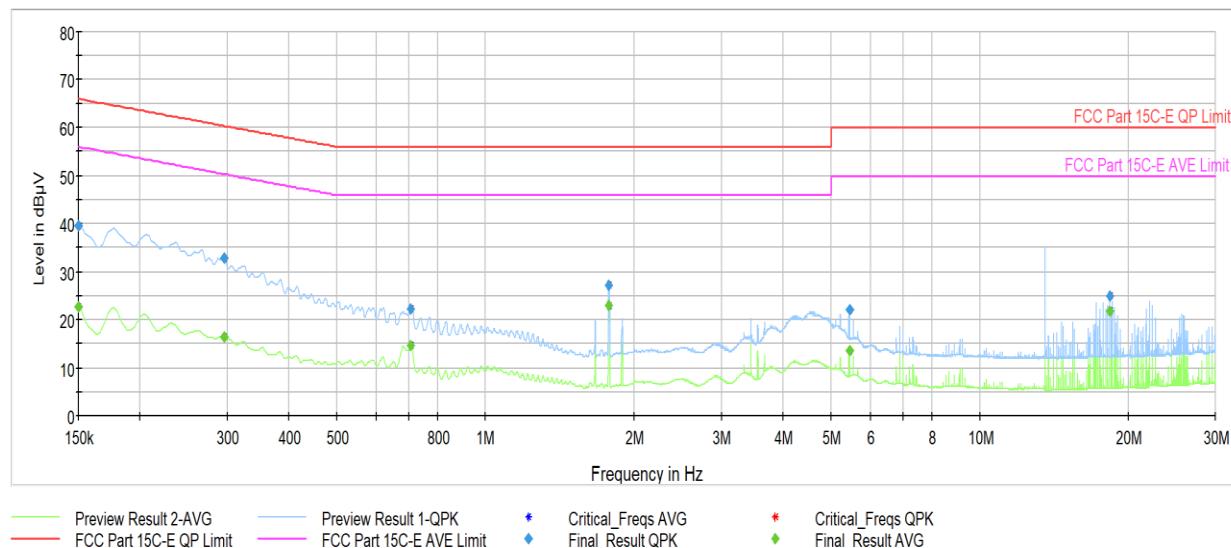


**Plot 7-14. AC Line-Conducted Plot (L1, Reader A 848kbps, with AC/DC Adapter and Magnetic Charger)**

Frequency [MHz]	Process State	QuasiPeak [dB $\mu$ V]	Average [dB $\mu$ V]	Limit [dB $\mu$ V]	Margin [dB]	Line	PE
0.173	FINAL	—	25.63	54.84	-29.21	L1	GND
0.173	FINAL	42.5	—	64.84	-22.34	L1	GND
0.346	FINAL	—	16.73	49.06	-32.33	L1	GND
0.346	FINAL	32.8	—	59.06	-26.26	L1	GND
1.777	FINAL	—	27.29	46.00	-18.71	L1	GND
1.777	FINAL	32.6	—	56.00	-23.37	L1	GND
3.444	FINAL	25.0	—	56.00	-31.05	L1	GND
3.444	FINAL	—	20.23	46.00	-25.77	L1	GND
10.667	FINAL	25.4	—	60.00	-34.57	L1	GND
10.667	FINAL	—	13.70	50.00	-36.30	L1	GND
18.332	FINAL	—	28.18	50.00	-21.82	L1	GND
18.332	FINAL	31.9	—	60.00	-28.08	L1	GND

**Table 7-16. AC Line-Conducted Data (L1, Reader A 848kbps, with AC/DC Adapter and Magnetic Charger)**

FCC ID: BCG-A3333 IC: 579C-A3333	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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**Plot 7-15. AC Line-Conducted Plot (N, Reader A 848kbps, with AC/DC Adapter and Magnetic Charger)**

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.150	FINAL	—	22.60	56.00	-33.40	N	GND
0.150	FINAL	39.7	—	66.00	-26.34	N	GND
0.296	FINAL	—	16.34	50.35	-34.00	N	GND
0.296	FINAL	32.9	—	60.35	-27.45	N	GND
0.706	FINAL	—	14.72	46.00	-31.28	N	GND
0.706	FINAL	22.3	—	56.00	-33.68	N	GND
1.777	FINAL	27.1	—	56.00	-28.86	N	GND
1.777	FINAL	—	22.91	46.00	-23.09	N	GND
5.444	FINAL	21.9	—	60.00	-38.09	N	GND
5.444	FINAL	—	13.48	50.00	-36.52	N	GND
18.332	FINAL	—	21.74	50.00	-28.26	N	GND
18.332	FINAL	25.1	—	60.00	-34.95	N	GND

**Table 7-17. AC Line-Conducted Data (N, Reader A 848kbps, with AC/DC Adapter and Magnetic Charger)**

FCC ID: BCG-A3333 IC: 579C-A3333	 element	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
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## 8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Apple Watch FCC ID: BCG-A3333** and **IC: 579C-A3333** has been tested to show compliance with Part 15 Subpart C (15.225) of the FCC Rules and RSS-210 of the Innovation, Science and Economic Development Canada Rules.

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