



MEASUREMENT REPORT

FCC PART 15.519 / ISED RSS-220 Ultra-Wideband

Applicant Name:

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

Date of Testing:

6/1/2026 - 7/23/2026

Test Report Issue Date:

8/3/2026

Test Site/Location:

Element Materials Technology Morgan Hill, CA, USA

Test Report Serial No.:

1C2604100029-09.BCG

FCC ID:

BCG-A3584

IC:

579C-A3584

APPLICANT:

Apple Inc.

Application Type:

Certification

Model/HVIN:

A3584, A3585

EUT Type:

Watch

Operational Frequency:

6489.6MHz (Ch 5) and 7987.2MHz (Ch 9)

FCC Classification:

Ultra-Wideband Transmitter (UWB)

FCC Rule Part(s):

Part 15 Subpart F (15.519)

ISED Specification:

RSS-220 Issue 1 and RSS-Gen Issue 6

RSS 220 Subclass:

Hand-held Communication Devices

Test Procedures:

ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, KDB 393764 D01 v02r01

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 and KDB 393764 D01 v02r01. 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



FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
Test Report S/N: 1C2604100029-09.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 1 of 62

V 12.0 03/03/2026

Revision Summary

Revision	Date	Comments	Revised By
-	7-24-2026	Initial Release	WKR014197

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
Test Report S/N: 1C2604100029-09.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 2 of 62

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

1.0	INTRODUCTION	4
1.1	Scope	4
1.2	Element Materials Technology Test Location	4
1.3	Test Facility / Accreditations	4
2.0	PRODUCT INFORMATION.....	5
2.1	Equipment Description	5
2.2	Device Capabilities.....	5
2.3	Antenna Description	7
2.4	Test Support Equipment.....	8
2.5	Test Configuration	8
2.6	Software and Firmware	9
2.7	EMI Suppression Device(s)/Modifications.....	9
3.0	DESCRIPTION OF TESTS	10
3.1	Evaluation Procedure	10
3.2	AC Line Conducted Emissions.....	10
3.3	Radiated Emissions.....	11
3.4	Environmental Conditions	11
4.0	ANTENNA REQUIREMENTS	12
5.0	MEASUREMENT UNCERTAINTY	13
6.0	TEST EQUIPMENT CALIBRATION DATA	14
7.0	TEST RESULTS	14
7.1	Summary	15
7.2	10dBc Bandwidth Measurement	16
7.3	Bandwidth Measurement.....	20
7.4	Maximum Peak and Average Radiated Power (EIRP)	24
7.5	Cease Transmission Time	30
7.6	Radiated Spurious Emissions Measurements – Above 960MHz	35
7.7	Radiated Spurious Emissions Measurements – Below 960MHz	51
7.8	AC Line-Conducted Emission Measurement	56
8.0	CONCLUSION.....	62

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
Test Report S/N: 1C2604100029-09.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 3 of 62

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.

- 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 test laboratory with the site description on file with ISED (Wireless Test Lab number 22831) and FCC (Designation Number US1163).
- 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).

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
Test Report S/N: 1C2604100029-09.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 4 of 62

V 12.0 03/03/2026

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Apple Watch FCC ID: BCG-A3584** and **IC: 579C-A3584**. The test data contained in this report pertains only to the emissions due to the EUT's Ultra-Wideband (UWB) transmitter.

Test Device Serial No.: C22L7JGV7V, JCVYVW2JD9, MF60VTHFMX, HDF0K77LGC

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, 60.5 GHz Transmitter.

For ISSED, this device is under subclass 5.3 Hand-held Communication Devices of RSS-220

Data Port UWB Radio Terminal Access: No

Ch.	Frequency (MHz)	Config	Payload	Config	Payload
5	6500	0	25B	705	0B
		7	65B	706	0B
		9	65B	801	0B Gap0
			125B		0B Gap64
		11	25B	802	0B
		16	65B	803	0B
		101	25B	804	0B Gap0
		102	25B		0B Gap64
		201	65B	805	0B
		501	0B	806	0B
		503	0B	807	0B Gap0
		601	0B		0B Gap64
		603	0B	808	0B
		605	0B	809	0B
		607	0B	810	0B Gap0
		701	0B		0B Gap64
		702	0B	811	0B
		703	0B	812	0B
		704	0B		

Table 2-1. UWB Frequency / Channel 5 Operations

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
Test Report S/N: 1C2604100029-09.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 5 of 62

Ch.	Frequency (MHz)	Config	Payload	Config	Payload
9	8000	0	25B	705	0B
		7	65B	706	0B
		9	65B	801	0B Gap0
			125B		0B Gap64
		11	25B	802	0B
		16	65B	803	0B
		101	25B	804	0B Gap0
		102	25B		0B Gap64
		201	65B	805	0B
		501	0B	806	0B
		503	0B	807	0B Gap0
		601	0B		0B Gap64
		603	0B	808	0B
		605	0B	809	0B
		607	0B	810	0B Gap0
		701	0B		0B Gap64
		702	0B	811	0B
		703	0B	812	0B
		704	0B		

Table 2-2. UWB Frequency / Channel 9 Operations

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Test Report S/N: 1C2604100029-09.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 6 of 62

V 12.0 03/03/2026

Notes:

1. All above configurations from Tables 2-1 & 2-2 were tested and only the worse case configurations were reported. For all possible packet types on device, please refer to Technical Description document
2. 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:

Simultaneous Tx Config	Antenna FCM				
	WLAN	Bluetooth	802.15.4ab - NB	UNII	UWB
	802.11b/g/n	BDR, EDR, HDR4/8, LE1/2M	O-QPSK	802.11a/n	Ch.5/Ch.9
Config 1	✓	✗	✗	✗	✓
Config 2	✗	✓	✗	✗	✓
Config 3	✗	✓	✓	✗	✗
Config 4	✓	✗	✓	✗	✗
Config 5	✗	✓	✗	✓	✗

Table 2-3. Simultaneous Transmission Configurations

✓ = Support; ✗ = NOT Support

All above simultaneous transmission configurations have been tested and the worst case configuration was found to be configuration 5 (BT and UNII). These results can be found in the RF Bluetooth and RF UNII reports.

2.3 Antenna Description

Following antennas gains provided by manufacturer were used for testing. The validity of the calculated results is based on the accuracy of the information provided.

Frequency [MHz]	Antenna Gain (dBi)
6250-6750	-4.1
7750-8250	-3.5

Table 2-4. Highest Antenna Gain

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
Test Report S/N: 1C2604100029-09.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 7 of 62

2.4 Test Support Equipment

1	Apple Macbook	Model:	A1398	S/N:	FVFDHG8TP3XY
	w/AC/DC Adapter	Model:	A1435	S/N:	N/A
2	Apple USB-C cable	Model:	N/A	S/N:	N/A
	w/ Charging Dock	Model:	A3736	S/N:	SAA26DMLLA7P1547400899
	w/ Cradle	Model:	N/A	S/N:	SAA26CMLP1545700273
3	Apple Magnetic Charger	Model:	A3277	S/N:	DLCHTU0006G0001PGP
	Apple Magnetic Charger	Model:	A2879	S/N:	DLCH5T0012A00000WB
4	DC Power Supply	Model:	KPS3010D	S/N:	N/A
5	Apple iPhone	Model:	AA2427	S/N:	MX4M32R7XC

Table 2-5. Test Support Equipment Used

2.5 Test Configuration

The EUT was tested per the guidance of ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 and KDB 393764 D01 v02r01. ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing. See Sections 3.2 for AC line conducted emissions test setups, 3.3 for radiated emissions test setups.

The worst case configuration was investigated for all combinations of 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.

For emissions from 960MHz – 18GHz, channel 5 and channel 9 were tested with highest power and worst case configuration. The emissions below 960MHz and above 18GHz were tested with the highest transmitting power and the worst case configuration were reported.

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

For AC line conducted emission and radiated test below 960MHz, following configuration were investigated and the 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

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
Test Report S/N: 1C2604100029-09.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 8 of 62

2.6 Software and Firmware

The test was conducted with firmware version watchOS 27 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.

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
Test Report S/N: 1C2604100029-09.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 9 of 62

3.0 DESCRIPTION OF TESTS

3.1 Evaluation Procedure

The measurement procedures described in the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices (ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024) and the guidance provided in KDB 393764 D01 v02r01 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 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 7.8. 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.

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
Test Report S/N: 1C2604100029-09.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 10 of 62

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).

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
Test Report S/N: 1C2604100029-09.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 11 of 62

V 12.0 03/03/2026

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.

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
Test Report S/N: 1C2604100029-09.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 12 of 62

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	2.00
Line Conducted Disturbance	1.88
Radiated Disturbance (<30MHz)	4.24
Radiated Disturbance (30MHz - 1GHz)	4.96
Radiated Disturbance (1 - 18GHz)	5.18
Radiated Disturbance (>18GHz)	5.18

Parameter	Expanded Uncertainty
Time	$\pm 1.06\%$

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
Test Report S/N: 1C2604100029-09.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 13 of 62

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	N9020A	MXA Signal Analyzer	7/7/2025	Biennial	7/7/2027	MY56470202
Anritsu	ML2496A	Power Meter	4/6/2026	Annual	4/6/2027	1351001
Anritsu	MA2411B	Pulse Power Sensor	4/6/2026	Annual	4/6/2027	1315051
ATM	180-442-KF	20dB Nominal Gain Horn Antenna	3/31/2026	Annual	3/31/2027	T058601-02
ETS-Lindgren	3117	Double Ridged Guide Antenna (1-18 GHz)	4/21/2026	Annual	4/21/2027	218555
Keysight Technology	N9040B	UXA Signal Analyzer	3/19/2026	Annual	3/19/2027	MY60080210
Fairview Microwave/MCL	FMCA1975-36/BW-K10-2W44+	30MHz-40GHz RF Cable/Attenuator *	6/10/2026	Annual	6/10/2027	-
Rohde & Schwarz	TS-PR18	Pre-Amplifier (1GHz - 18GHz)	8/6/2025	Annual	8/6/2026	101639
Rohde & Schwarz	FSW43	Spectrum Analyzer 2Hz to 43GHz	8/5/2025	Annual	8/5/2026	104093
Rohde & Schwarz	ESW44	EMI Test Receiver 2Hz to 44 GHz	3/11/2026	Annual	3/11/2027	101716
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz - 8GHz)	10/14/2025	Annual	10/14/2026	102328
Rohde & Schwarz	TS-PR1840	Pre-Amplifier (18GHz - 40GHz)	7/3/2025	Annual	7/3/2026	100057
Rohde & Schwarz	HFH2-Z2	Loop Antenna	6/26/2025	Annual	6/26/2026	100519
Rohde & Schwarz	HFH2-Z2	Loop Antenna	6/25/2026	Annual	6/25/2027	100546
Rohde & Schwarz	ENV216	Two-Line V-Network	8/18/2025	Annual	8/18/2026	101363
Schwarzbeck	3142E	Bilog Antenna (30MHz - 6GHz)	9/30/2025	Annual	9/30/2026	224569

Table 6-1. Test Equipment List

Notes:

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

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
Test Report S/N: 1C2604100029-09.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 14 of 62

7.0 TEST RESULTS

7.1 Summary

Company Name: Apple Inc.
 FCC ID: BCG-A3584
 IC: 579C-A3584
 FCC Classification: Ultra-Wideband Transmitter

FCC Part Section(s)	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
§15.503, §15.519 (b)	RSS-220 [2]	10dBc Bandwidth	≥ 500MHz	RADIATED	PASS	Section 7.2, 7.3
§ 2.1049	RSS-Gen [5.1]	Occupied Bandwidth	N/A		N/A	Section 7.3
§15.519 (e)	RSS-220 [5.3.1(g)]	Maximum Peak Power Spectral Density (Peak EIRP)	< 0 dBm/50MHz EIRP		PASS	Sections 7.4.1
§15.519 (c)	RSS-220 [5.3.1(d)]	Maximum Average Emission (Average EIRP)	< -41.3 dBm/MHz EIRP		PASS	Section 7.4.2
§15.519 (a)(1)	RSS-220 [5.3.1(b)]	Cease Transmission Time	See §15.519 (a)(1) and RSS-220 [5.3.1(b)] for details		PASS	Section 7.5
§15.519 (c)	RSS-220 [5.3.1(d)]	Radiated Emissions Above 960MHz	See table in §15.519 (c) and RSS-220[5.3.1(d)] for details		PASS	Sections 7.6
§15.519 (d)	RSS-220 [5.3.1(e)]	Radiated Emissions in the 1164 – 1240Mhz and 1559 – 1610MHz GPS Bands	See §15.519 (d) and RSS-220 [5.3.1 (e)] for details		PASS	Sections 7.6
§15.519 (c), §15.209	RSS-220 [3.4] RSS-Gen [7.4.3]	Radiate Emissions Below 960MHz	Emissions in restricted bands must meet the radiated limits detailed in §15.209 (RSS-Gen [7.4.3])		PASS	Section 7.7
§15.207	RSS-Gen [7.4.2]	AC Line Conducted Emissions 150kHz – 30MHz	< FCC 15.207 limits (RSS-Gen [7.4.2])	AC LINE CONDUCTED	PASS	Section 7.8

Table 7-1. Summary of Test Results

Notes:

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

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
Test Report S/N: 1C2604100029-09.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 15 of 62

7.2 10dBc Bandwidth Measurement

Test Overview and Limit

The UWB bandwidth is the frequency band bounded by the points that are 10dB below the highest radiated emission, as based on the complete transmission system including the antenna. The upper boundary is designated F_H and the lower boundary is designated F_L . The frequency at which the highest radiated emission occurs is designated F_M .

- The center frequency, F_C , equals $(F_H + F_L)/2$
- The fractional bandwidth equals $2(F_H - F_L) / (F_H + F_L)$

The UWB bandwidth of a device operating under the provisions of this section must be contained between 3100MHz and 10,600MHz.

- The minimum permissible 10dBc Bandwidth is 500 MHz*
- Fractional bandwidth is equal or greater than 0.20*

Test Procedure Used

ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 – Section 10.1
KDB 393764 D01 v02r01

Test Settings

1. RBW = 1MHz
2. VBW = 3MHz
3. Detector = Peak
4. Trace mode = max hold
5. Sweep = auto couple
6. The trace was allowed to stabilize

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
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Test Setup

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

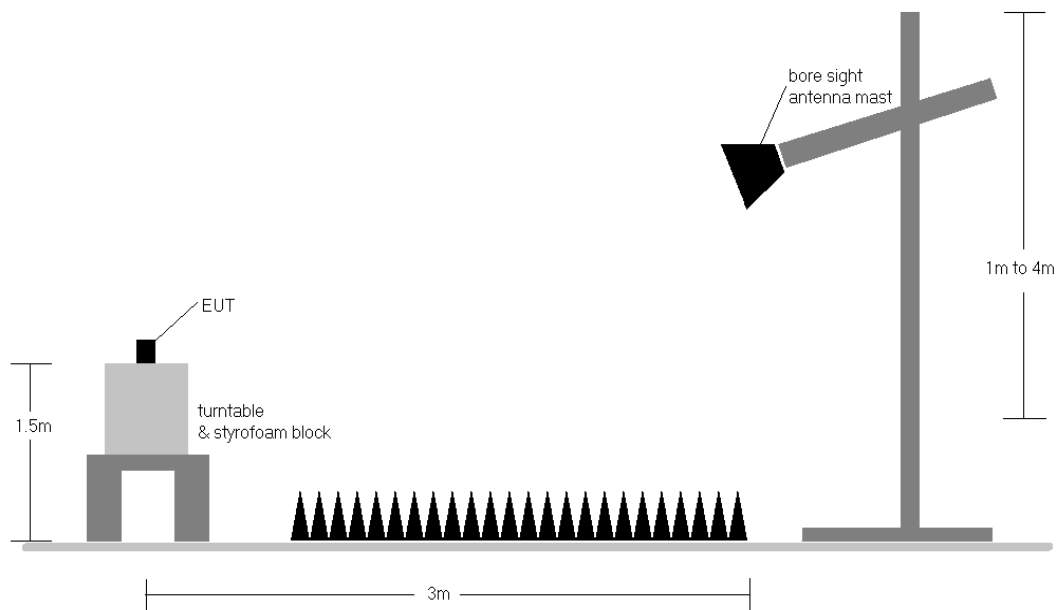


Figure 7-1. Test Setup

Test Notes

1. In those cases where the measured emission spectrum contains multiple (more than two) -10dBc points, the outermost points define the UWB bandwidth (i.e., the widest bandwidth is reported).
2. All modes of operation were investigated and the worst-case emissions are reported.

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Test Report S/N: 1C2604100029-09.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 17 of 62

Frequency [GHz]	Channel	Config	Payload	F _M [GHz]	F _L [GHz]	F _H [GHz]	F _C [GHz]	Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
6.5	5	9	125B	6.25	6.227	6.752	6.4895	525.00	500	Pass

Table 7-2. 10dBc Bandwidth Measurements (UWB, Ch.5, 6.5GHz)

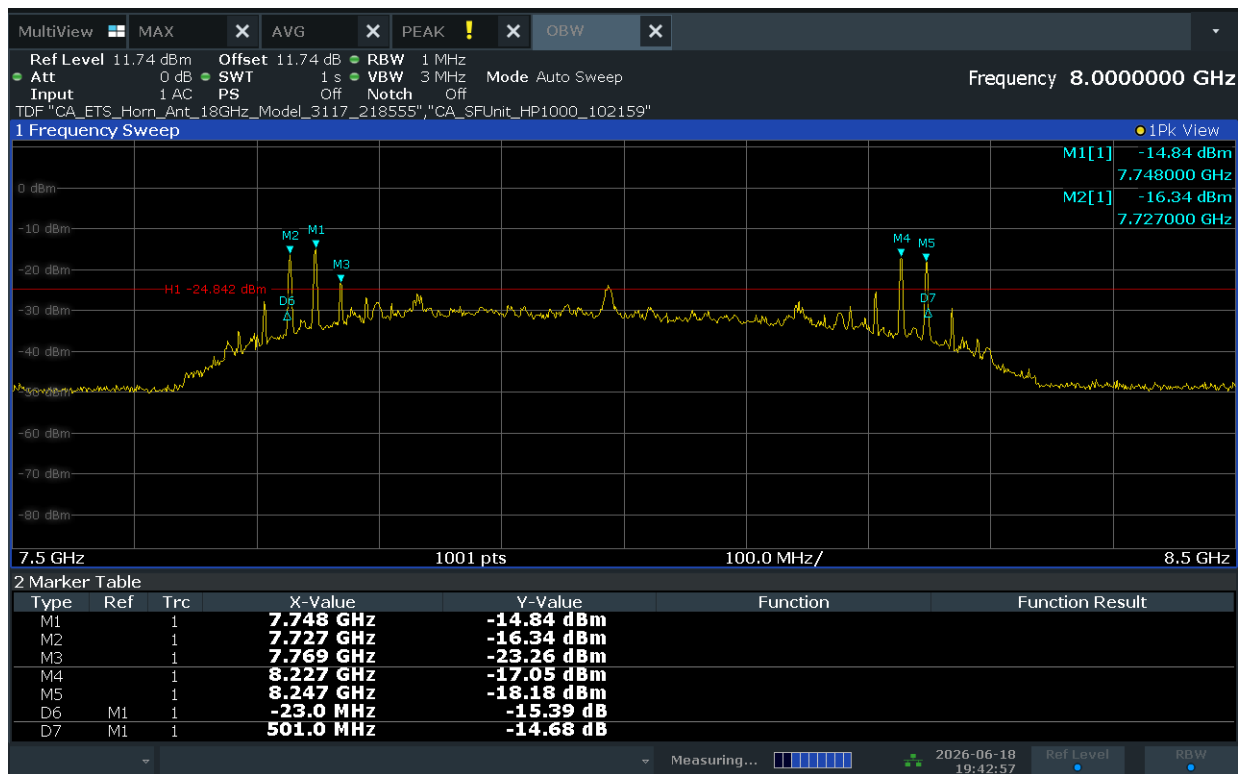
Frequency [GHz]	Channel	Config	Payload	F _M [GHz]	F _L [GHz]	F _H [GHz]	F _C [GHz]	Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
8	9	9	125B	7.748	7.725	8.249	7.9870	524.00	500	Pass

Table 7-3. 10dBc Bandwidth Measurements (UWB, Ch.9, 8GHz)

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
Test Report S/N: 1C2604100029-09.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 18 of 62



Plot 7-1. 10dBc Bandwidth (Ch. 5, Config 9/Payload 125B)



Plot 7-2. 10dBc Bandwidth (Ch. 9, Config 9/Payload 125B)

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
Test Report S/N: 1C2604100029-09.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 19 of 62

7.3 Bandwidth Measurement

Test Overview and Limit

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

A UWB device is an intentional radiator that has either a -10 dB bandwidth of at least 500 MHz or a -10 dB fractional bandwidth greater than 0.2.

Test Procedure Used

ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 – Section 6.9
RSS-Gen [5.1]

Test Settings

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 10dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1 – 5% of the expected OBW
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
Test Report S/N: 1C2604100029-09.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 20 of 62

Test Setup

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

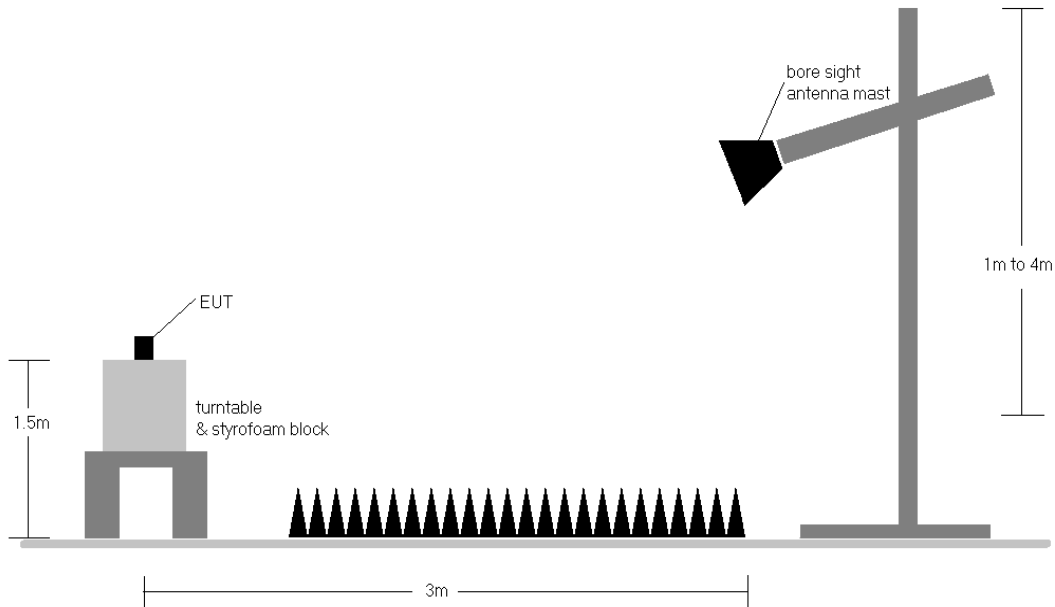


Figure 7-2. Test Instrument & Measurement Setup

Test Notes

- 1. All modes of operation were investigated and the worst-case emissions are reported.

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
Test Report S/N: 1C2604100029-09.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 21 of 62

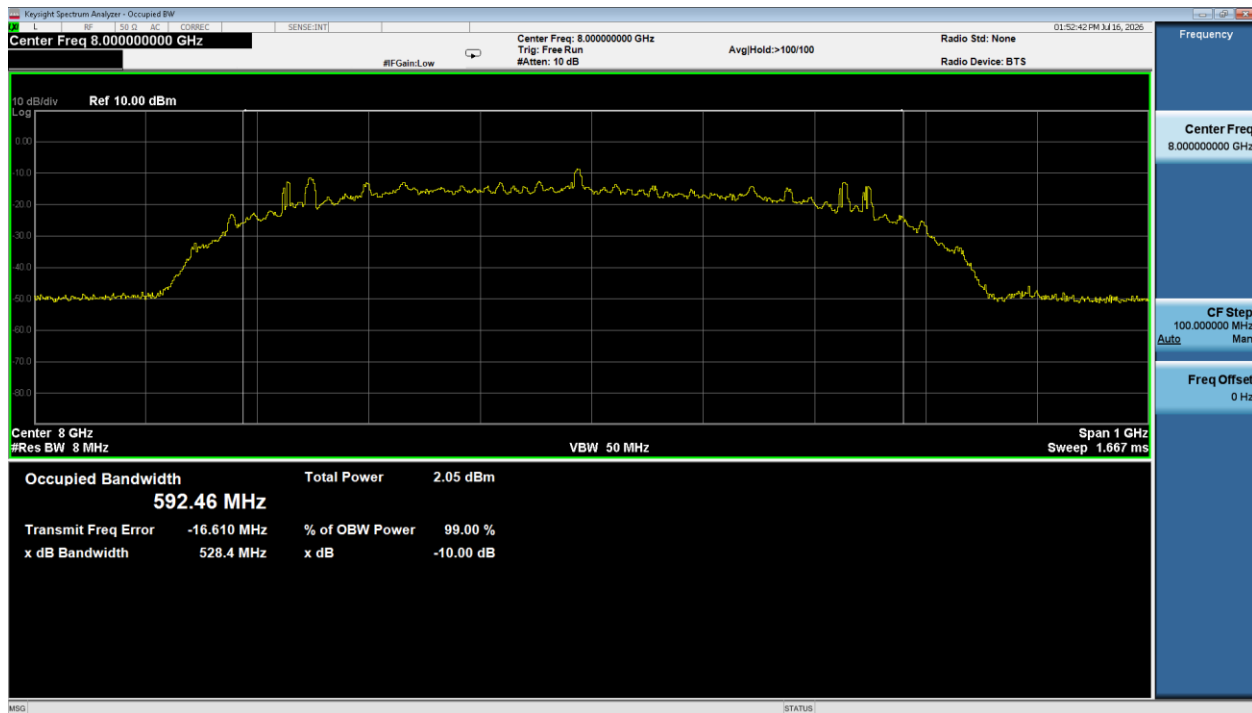
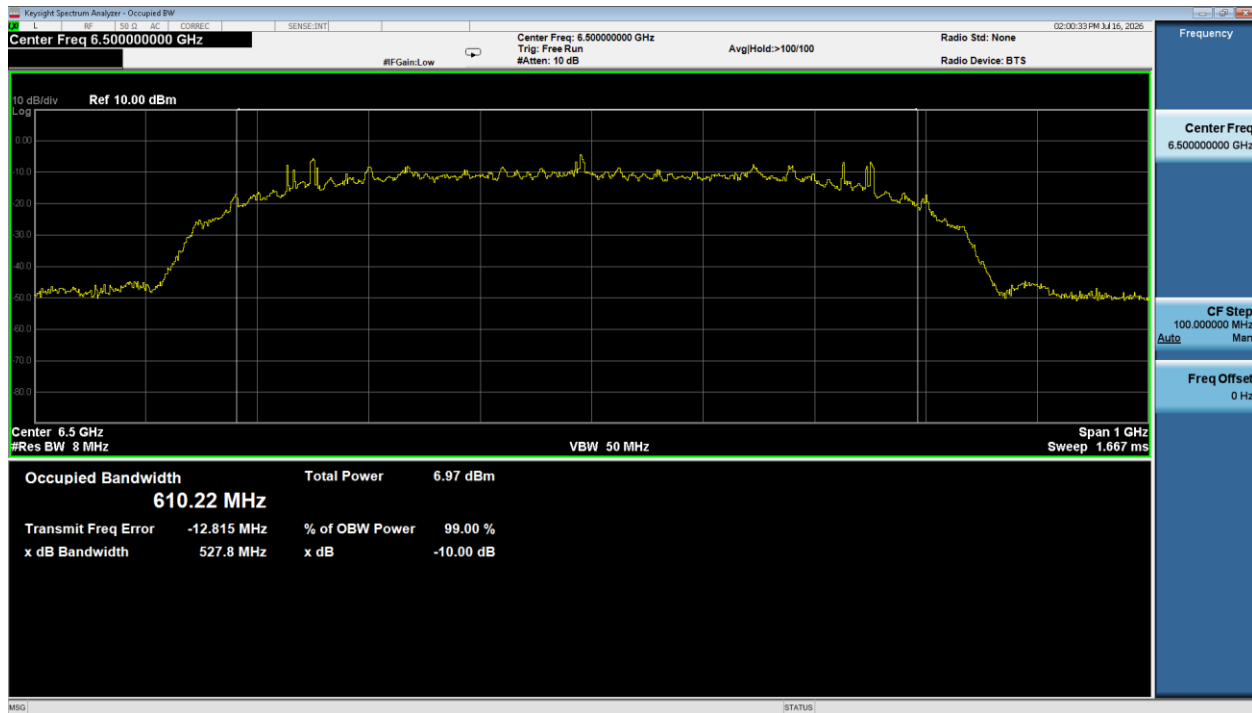
Frequency [GHz]	Channel	Config	Payload	Measured OBW [MHz]	Measured 10dBc Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
6.5	5	9	125B	610.22	527.80	500	Pass

Table 7-4. ISED 10dBc Bandwidth & 99% OBW Measurements (UWB, Ch.5, 6.5GHz)

Frequency [GHz]	Channel	Config	Payload	Measured OBW [MHz]	Measured 10dBc Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
8	9	9	125B	592.46	528.40	500	Pass

Table 7-5. ISED 10dBc Bandwidth & 99% OBW Measurements (UWB, Ch.9, 8GHz)

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
Test Report S/N: 1C2604100029-09.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 22 of 62



FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
Test Report S/N: 1C2604100029-09.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 23 of 62

7.4 Maximum Peak and Average Radiated Power (EIRP)

Test Overview and Limits

15.519 (e) There is a limit on the peak level of the emissions contained within a 50 MHz bandwidth centered on the frequency at which the highest radiated emission occurs, F_M . That limit is 0 dBm for Peak EIRP.

15.519 (c) The radiated emissions above 960 MHz from a device operating under the provisions of this section shall not exceed the following average limits when measured using a resolution bandwidth of 1 MHz:

Frequency [MHz]	EIRP [dBm]
3100-10600	-41.3

Table 7-6. FCC 15.519 Average EIRP limit

Frequency [MHz]	EIRP [dBm]
4750-10600	-41.3

Table 7-7. RSS-220 Average EIRP limit

Test Procedure Used

ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 – Section 10.3.5 and 10.3.7
KDB 393764 D01 v02r01

Test Settings

Average EIRP Measurements

1. RBW = 1MHz
2. VBW = 3MHz
3. Detector = Average (RMS)
4. Sweep time = No more than a 1 ms integration period over each measurement bin
5. Trace mode = Max hold
6. Trace was allowed to stabilize

Peak EIRP Measurements

1. RBW = 50MHz
2. VBW = 50MHz
3. Detector = Peak
4. Sweep time = auto couple
5. Trace mode = Max hold
6. Trace was allowed to stabilize

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
Test Report S/N: 1C2604100029-09.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 24 of 62

Test Setup

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

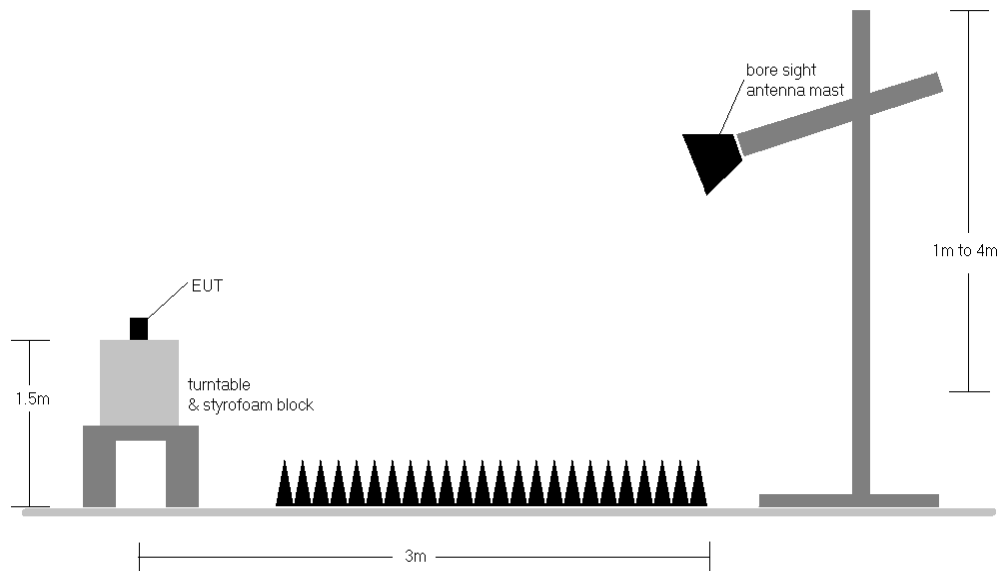


Figure 7-3. Test Instrument & Measurement Setup

Test Notes

1. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
2. All modes of operation were investigated and the worst-case emissions are reported.

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
Test Report S/N: 1C2604100029-09.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 25 of 62

V 12.0 03/03/2026

7.4.1 Peak Radiated Power Measurement

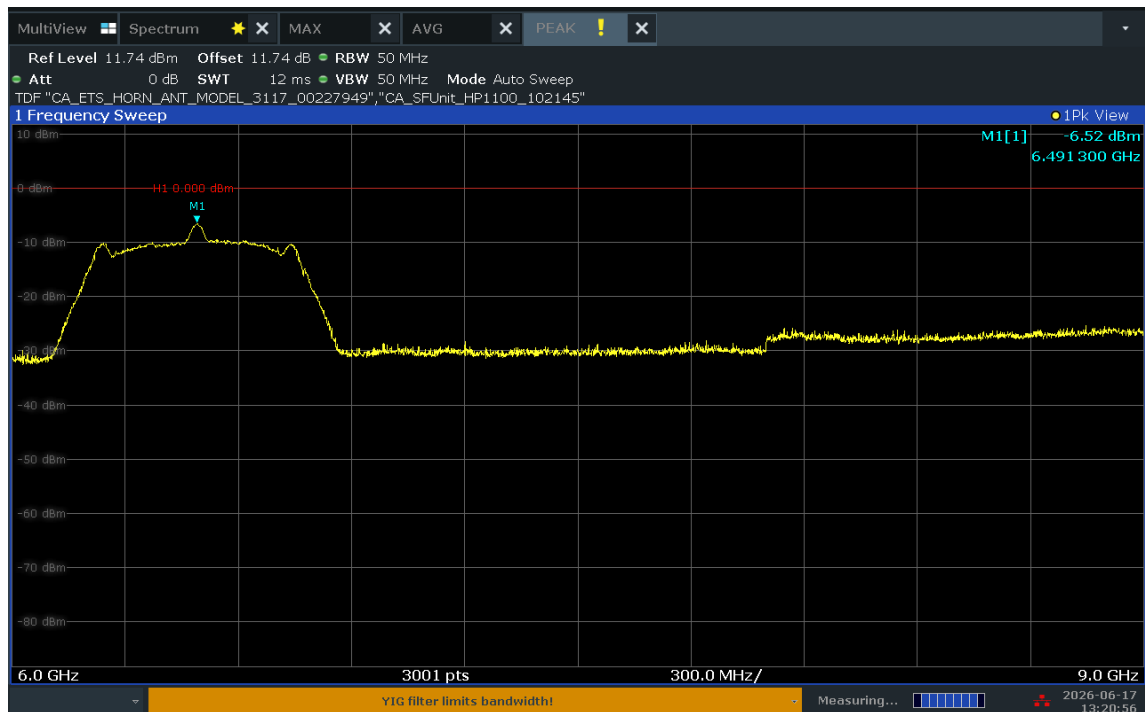
Frequency [GHz]	Channel	Config	Payload	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	F _M [GHz]	Peak EIRP [dBm/50MHz]	Peak EIRP Limit [dBm/50MHz]	Margin [dB]
6.5	5	9	125B	V	106	222	6.4913	-6.52	0.00	-6.52

Table 7-8. Peak EIRP Measurements (Channel 5)

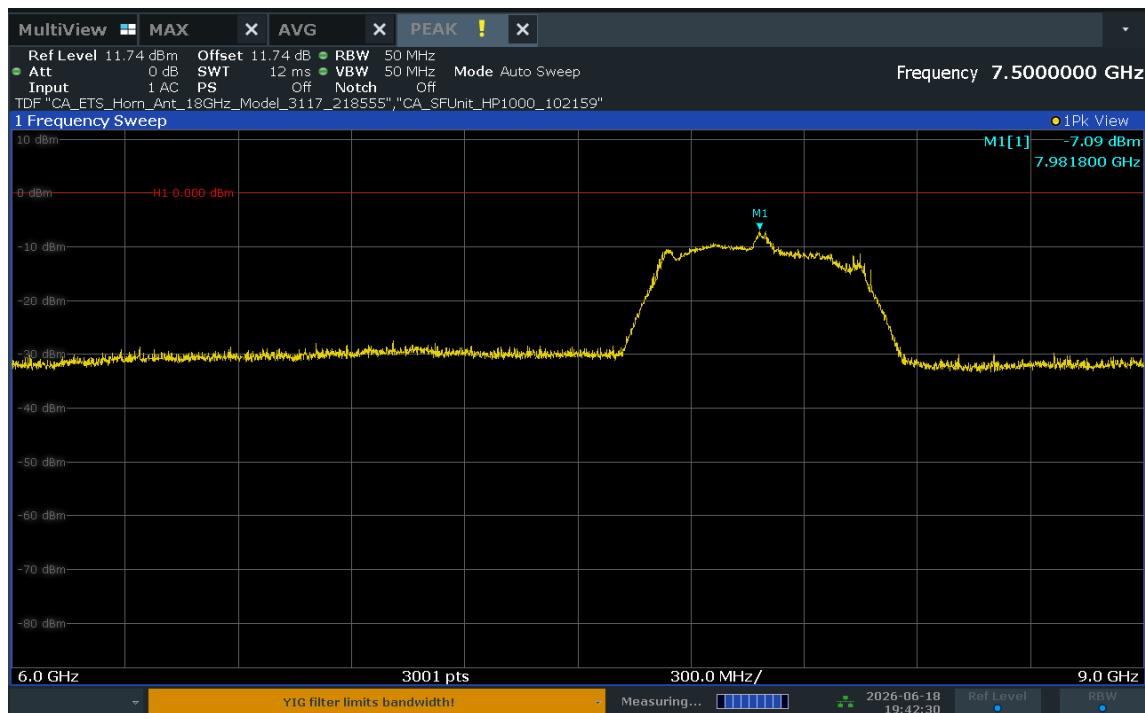
Frequency [GHz]	Channel	Config	Payload	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	F _M [GHz]	Peak EIRP [dBm/50MHz]	Peak EIRP Limit [dBm/50MHz]	Margin [dB]
8.0	9	9	125B	H	221	221	7.9818	-7.09	0.00	-7.09

Table 7-9. Peak EIRP Measurements (Channel 9)

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
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Plot 7-5. Peak Radiated Power (Ch. 5, Config 9/Payload 125B)



Plot 7-6. Peak Radiated Power (Ch. 9, Config 9/Payload 125B)

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
Test Report S/N: 1C2604100029-09.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 27 of 62

7.4.2 Average Radiated Power Measurement

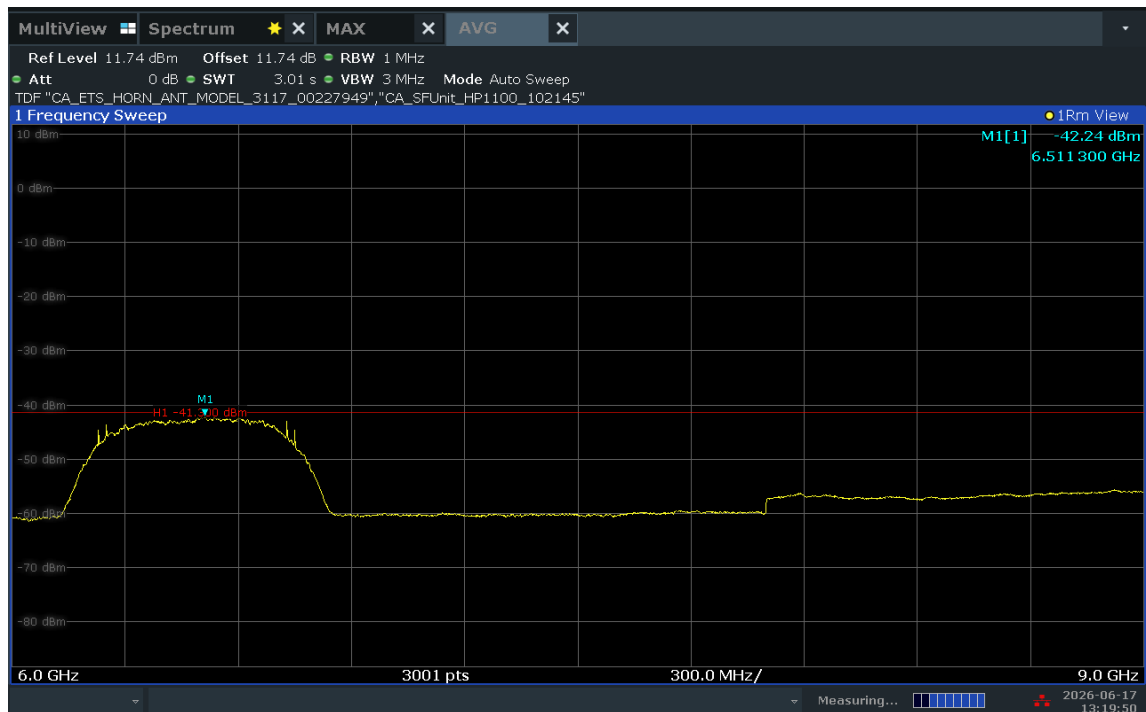
Frequency [GHz]	Channel	Config	Payload	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	F _M [GHz]	Average EIRP [dBm/1MHz]	Average EIRP Limit [dBm/1MHz]	Margin [dB]
6.5	5	9	125B	V	106	222	6.5113	-42.24	-41.30	-0.94

Table 7-10. Average EIRP Measurements (Channel 5)

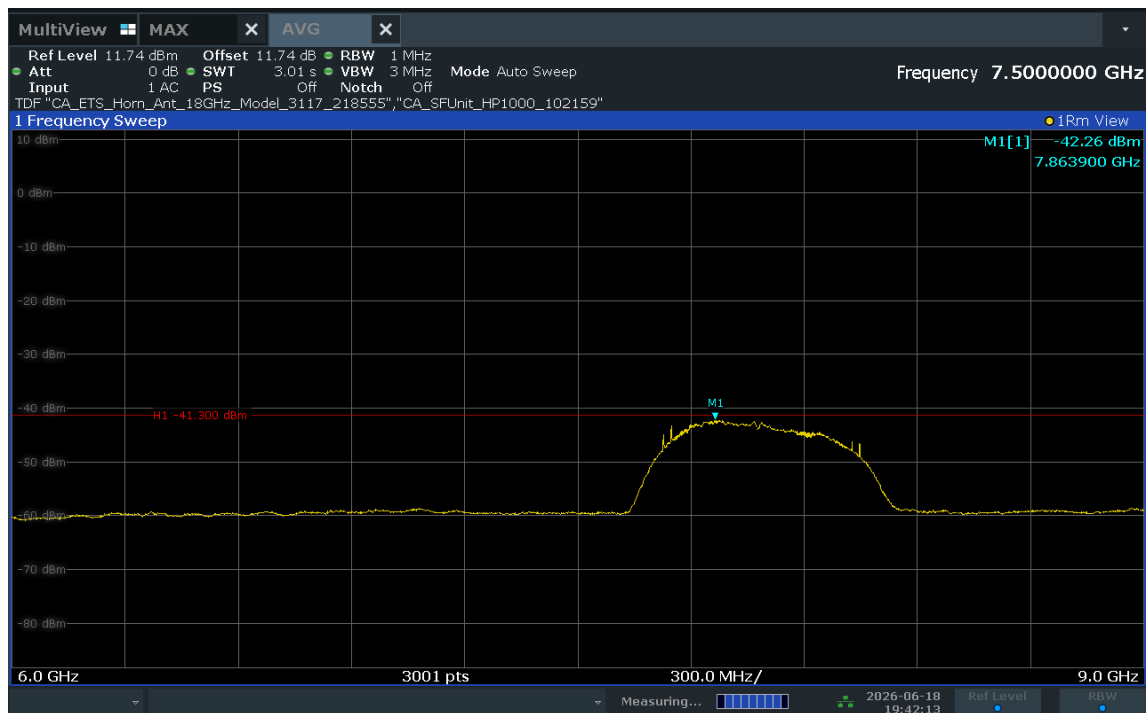
Frequency [GHz]	Channel	Config	Payload	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	F _M [GHz]	Average EIRP [dBm/1MHz]	Average EIRP Limit [dBm/1MHz]	Margin [dB]
8.0	9	9	125B	H	221	221	7.8639	-42.26	-41.30	-0.96

Table 7-11. Average EIRP Measurements (Channel 9)

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
Test Report S/N: 1C2604100029-09.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 28 of 62



Plot 7-7. Average Radiated Power (Ch. 5, Config 9/Payload 125B)



Plot 7-8. Average Radiated Power (Ch. 9, Config 9/Payload 125B)

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
Test Report S/N: 1C2604100029-09.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 29 of 62

7.5 Cease Transmission Time

Test Overview and Limit

A UWB device operating under the provisions of this section shall transmit only when it is sending information to an associated receiver. The UWB intentional radiator shall cease transmission within 10 seconds unless it receives an acknowledgement from the associated receiver that its transmission is being received. An acknowledgment of reception must continue to be received by the UWB intentional radiator at least every 10 seconds or the UWB device must cease transmitting.

Test Procedures Used

KDB 393764 D01 v02r01

Test Settings

1. RBW = 1MHz
2. VBW = 3MHz
3. Span = Zero Span Mode
4. Sweep time shall be sufficient to demonstrate EUTs compliance with the rule part.

Test Setup

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

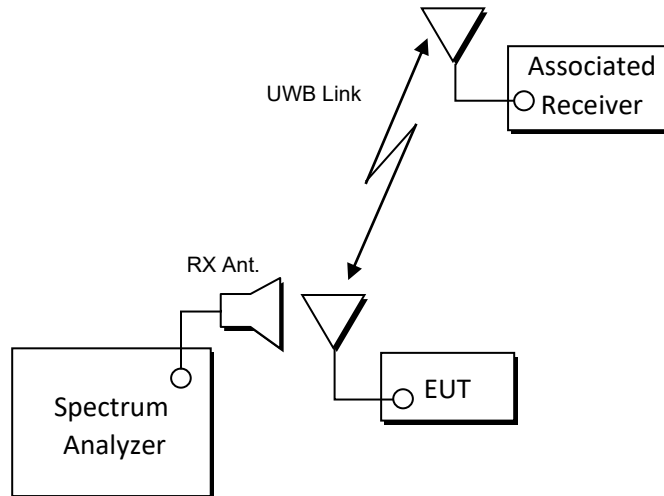


Figure 7-4. Test Setup

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
Test Report S/N: 1C2604100029-09.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 30 of 62

Test Configurations

The EUT was monitored in 2 different test configurations:

- Mode 1: EUT initiates the UWB link to the associated receiver (phone),
 - Associated receiver ends the link, and EUT ceases transmission of any information other than periodic signals (polling) for use in the establishment or re-establishment of a communications link with an associated receiver
- Mode 2: The associated receiver (phone) initiates the UWB link to the EUT
 - EUT ends the link, and stops sending acknowledgements to associated receiver

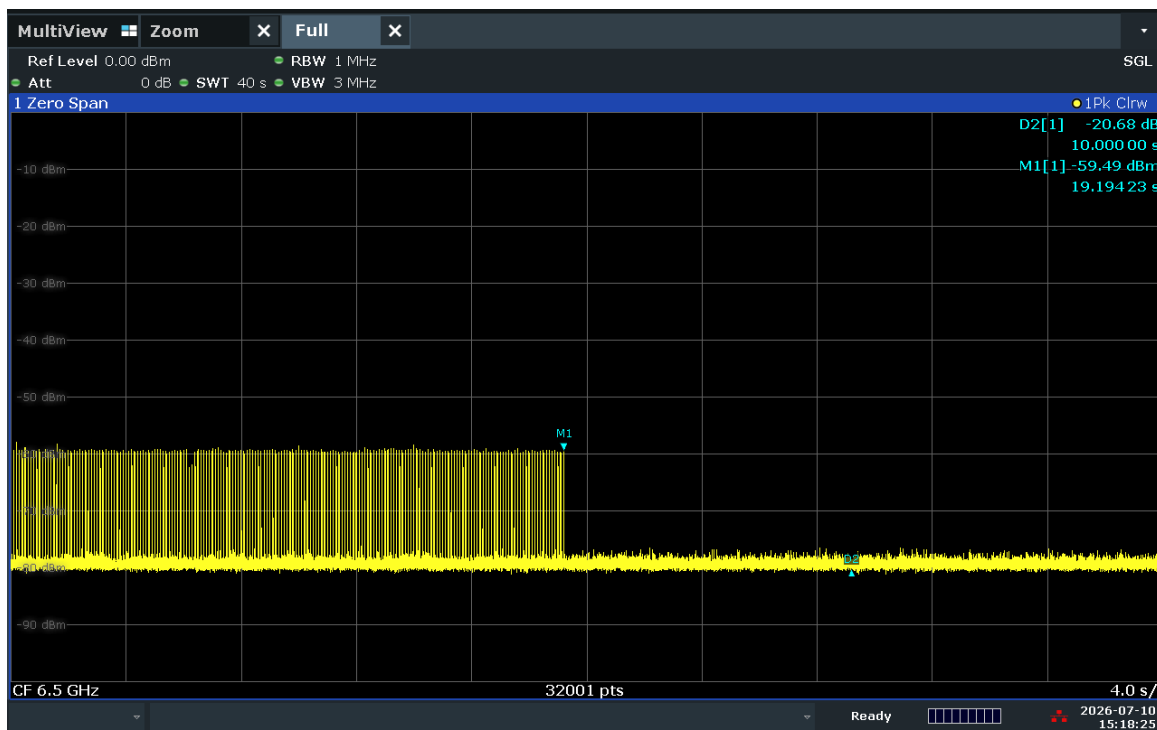
Result

Parameter	Limit	Result
Cessation Time - Mode1	1) The UWB intentional radiator shall cease transmission within 10 seconds 2) An acknowledgment of reception must continue to be received by the UWB intentional radiator at least every 10 seconds or the UWB device must cease transmitting.	Pass
Cessation Time - Mode2	1) The UWB intentional radiator shall cease transmission within 10 seconds 2) An acknowledgment of reception must continue to be received by the UWB intentional radiator at least every 10 seconds or the UWB device must cease transmitting.	Pass

Plots Description

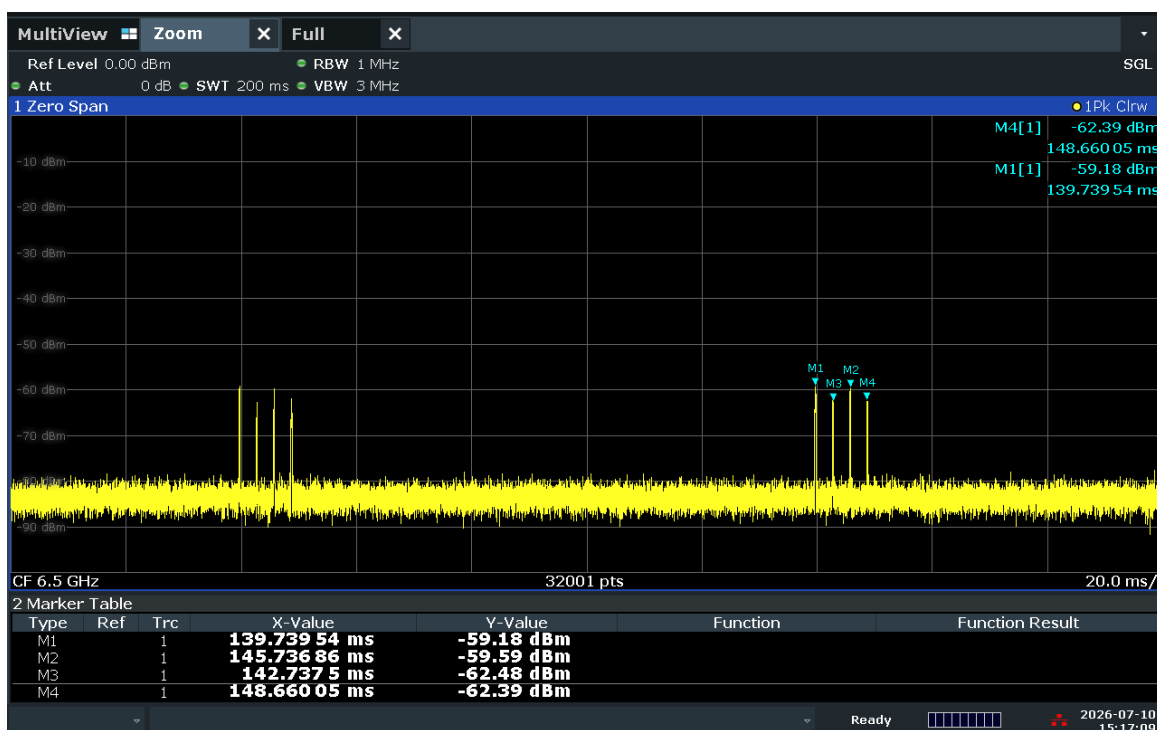
- Cessation Time - Mode1 (Mode2) plot:
 - Marker 1 shows stop time of sending acknowledgement from the associated receiver. UWB Transmission ceases promptly.
 - Marker 2 is placed to show that UWB Cease Tx has stopped before the maximum 10 s limit.
- Zoom in Cessation Time - Mode1 plot:
 - Marker 1 and 2 shows EUT traffic level
 - Marker 3 and 4 shows Associated receiver (Phone) traffic level

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Test Report S/N: 1C2604100029-09.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 31 of 62



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Plot 7-9. Cessation Time – Mode1 (Ch. 5, 6.5 GHz)



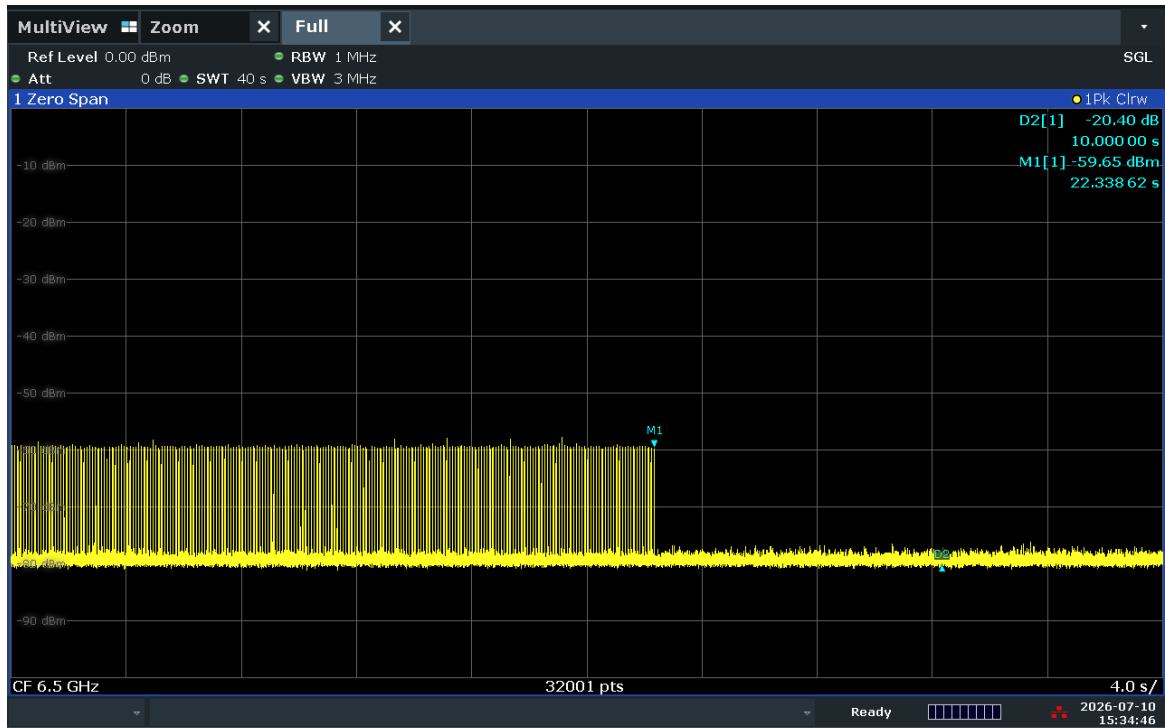
03:17:10 PM 07/10/2026

Plot 7-10. Zoom in Cessation Time – Mode1 (Ch. 5, 6.5 GHz)

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
Test Report S/N: 1C2604100029-09.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 32 of 62

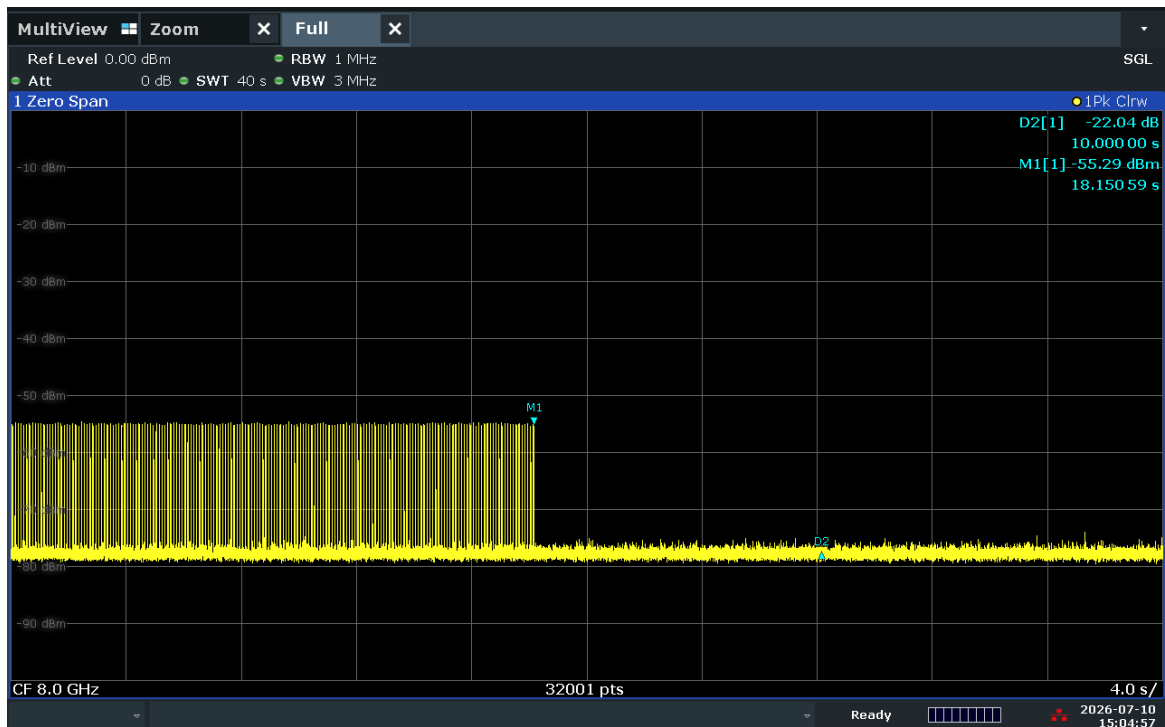
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Plot 7-11. Cessation Time – Mode2 (Ch. 5, 6.5 GHz)



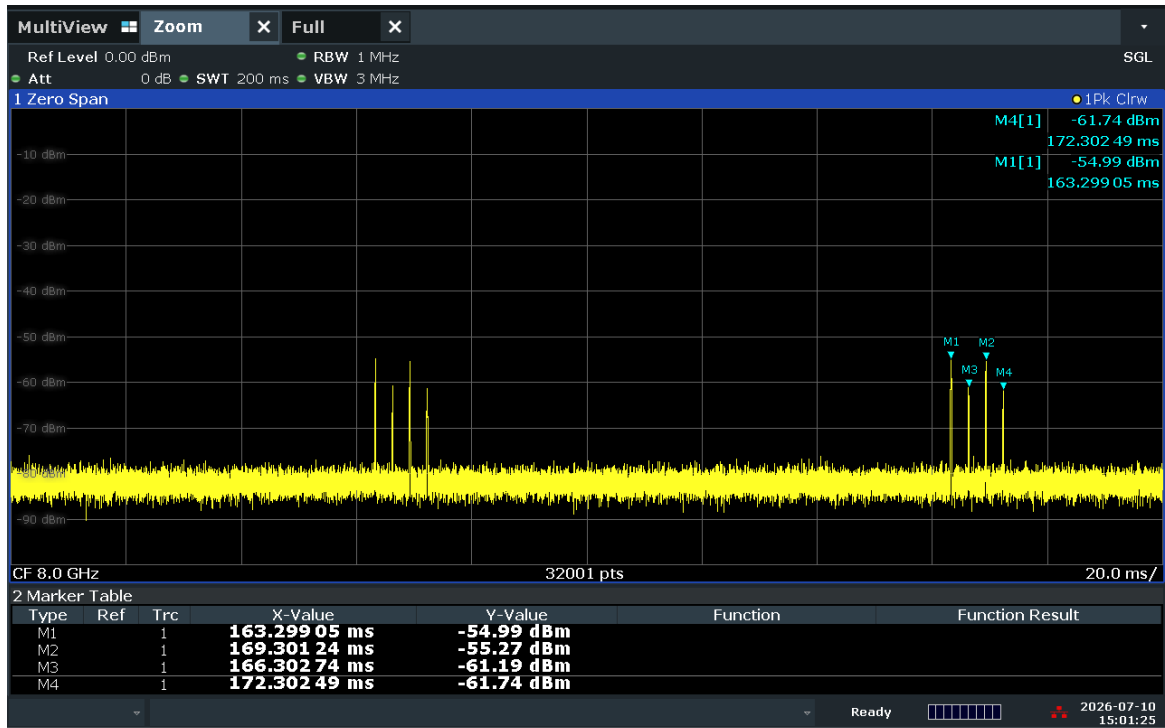
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Plot 7-12. Cessation Time – Mode1 (Ch. 9, 8 GHz)

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
Test Report S/N: 1C2604100029-09.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 33 of 62

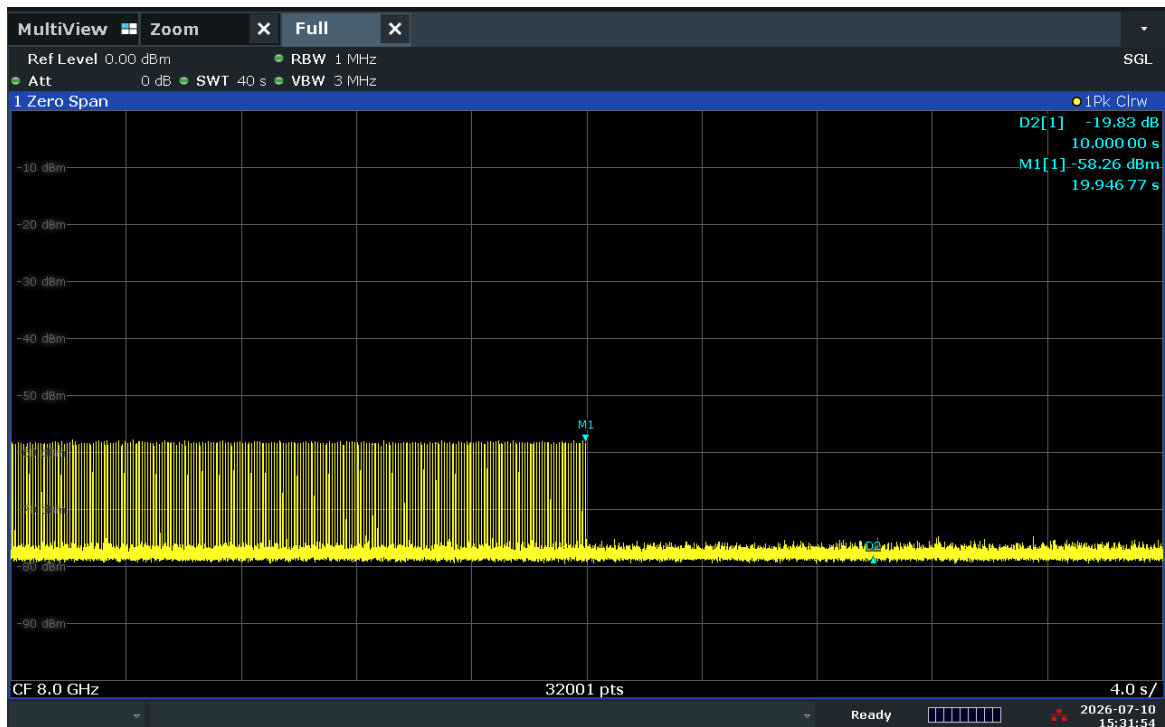
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Plot 7-13. Zoom in Cessation Time – Mode1 (Ch. 9, 8 GHz)



03:31:55 PM 07/10/2026

Plot 7-14. Cessation Time – Mode2 (Ch. 9, 8 GHz)

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
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7.6 Radiated Spurious Emissions Measurements – Above 960MHz

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 must not exceed the average limits shown in Table 7-12 and Table 7-13 per Section 15.519 (C) and RSS-220[5.3.1(d)] when measured using a resolution bandwidth of 1 MHz:

Frequency [MHz]	EIRP [dBm]
960-1610	-75.3
1610-1990	-63.3
1990-3100	-61.3
3100-10600	-41.3
Above 10600	-61.3

Table 7-12. FCC 15.519 Radiated Spurious Emissions Limits

Frequency [MHz]	EIRP [dBm]
960-1610	-75.3
1610-4750	-70.0
4750-10600	-41.3
Above 10600	-61.3

Table 7-13. RSS-220 Radiated Spurious Emissions Limits

All out of band emissions must not exceed the average limits shown in Table 7-14 per Section 15.519 (d) and RSS-220(5.3.1)(e) when measured using a resolution bandwidth greater than or equal to 1 kHz. The measurements shall demonstrate compliance with the stated limits at whatever resolution bandwidth is used.

Frequency [MHz]	EIRP [dBm]
1164-1240	-85.3
1559-1610	-85.3

Table 7-14. FCC 15.519/RSS-220 Radiated Spurious Emissions Limits for GPS frequency bands

Test Procedures Used

ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 – Section 10.3
KDB 393764 D01 v02r01

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
Test Report S/N: 1C2604100029-09.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 35 of 62

Test Settings

Average RSE Measurements

1. RBW = 1MHz (30kHz for emissions in the GPS band)
2. VBW = 3MHz (100kHz for emissions in the GPS band)
3. Detector = Average (RMS)
4. Sweep time = No more than a 1 ms integration period over each measurement bin
5. Trace mode = Max hold
6. Trace was allowed to stabilize

Test Setup

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

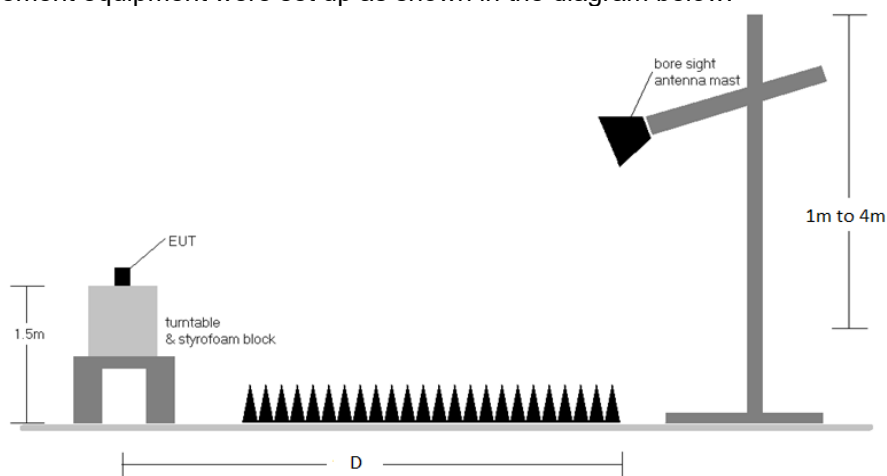


Figure 7-5. Radiated Test Setup - Above 960MHz

Test Notes

1. All modes of operation were investigated and the worst-case emissions are reported.
2. This unit was tested with its standard battery.
3. The RBW for measurements in the GPS Bands were reduced to 30kHz in order to show compliance.
4. D is the measurement test distance and emissions from 960MHz - 18GHz were measured at 0.6 meter test distance while emissions above 18GHz were measured at 0.5 meter test distance with the application of a distance correction factor.
5. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
6. 6GHz - 9GHz RSE is covered in EIRP section (Section 7.4).

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
Test Report S/N: 1C2604100029-09.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 36 of 62

Sample Calculations

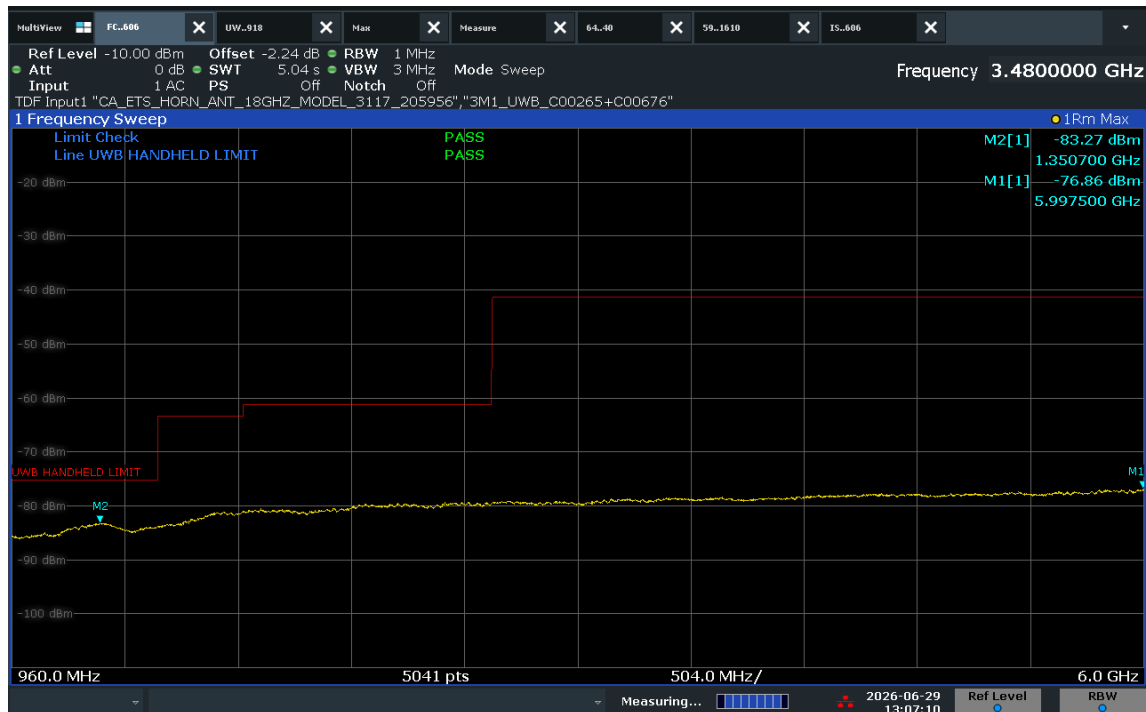
Determining Spurious Emissions Levels

- $E_{[\text{dB}\mu\text{V/m}]} = \text{Analyzer level}_{[\text{dBm}]} + 107 + \text{AFCL}_{[\text{dB/m}]}$
- $\text{Spurious Emission Level}_{[\text{dBm}]} = E_{[\text{dB}\mu\text{V/m}]} + 20 \log(D_{\text{Meas}}) - 104.8$
- $\text{Spurious Emission Level}_{[\text{dBm}]} = \text{Analyzer Level}_{[\text{dBm}]} + \text{AFCL}_{[\text{dB/m}]} + \text{Conversion Factor}_{[\text{dB}]}$
- $\text{AFCL}_{[\text{dB/m}]} = (\text{Antenna Factor}_{[\text{dB/m}]} + \text{Cable Loss}_{[\text{dB}]} + \text{Attenuator}_{[\text{dB}]} - \text{Preamplifier Gain}_{[\text{dB}]})$
- $\text{Conversion Factor}_{[\text{dB}]} = 107 - 104.8 + 20 \log(D_{\text{Meas}})$
- $\text{Margin}_{[\text{dB}]} = \text{Spurious Emission Level}_{[\text{dBm}]} - \text{Limit}_{[\text{dBm}]}$

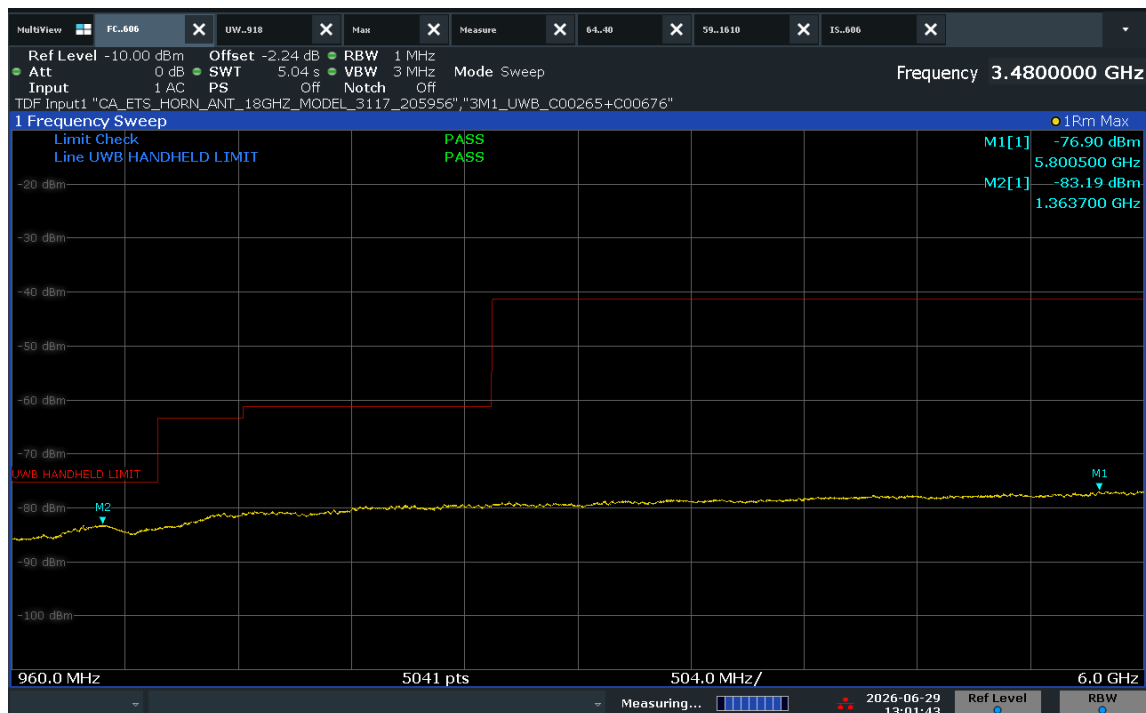
FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
Test Report S/N: 1C2604100029-09.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 37 of 62

V 12.0 03/03/2026

Radiated Spurious Emission Measurements (960MHz – 18GHz)

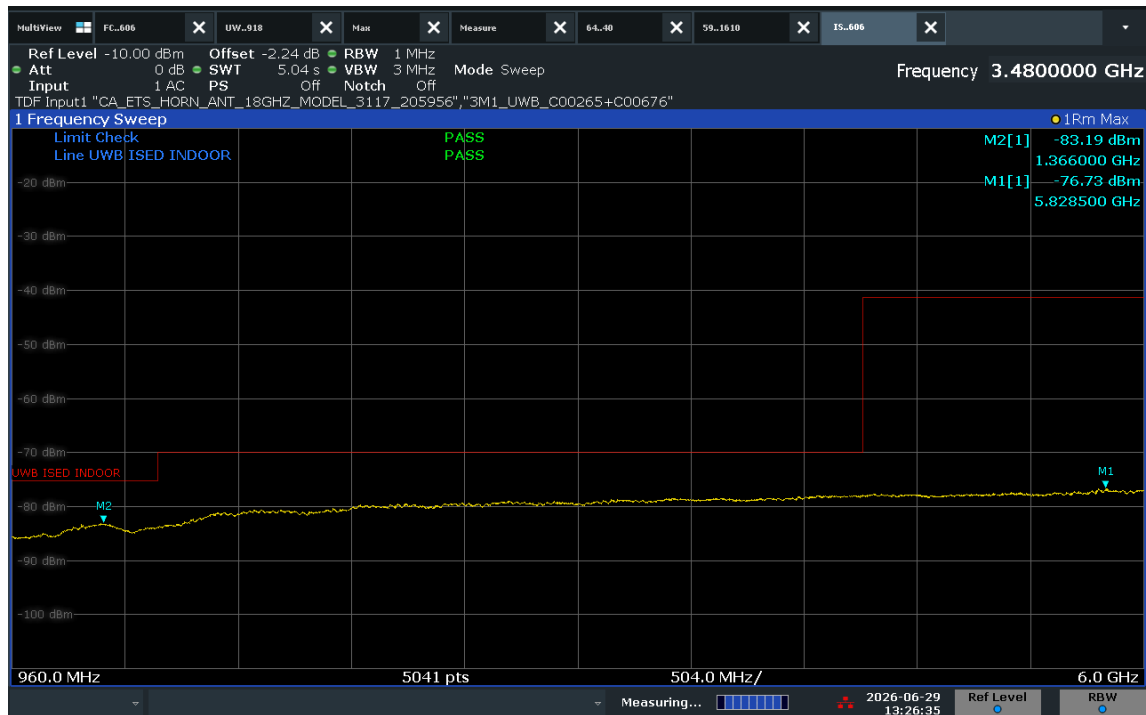


Plot 7-15. FCC Radiated Spurious Emission 960-6000MHz (Ch. 5, Config 9, Payload 125B Ant. Pol. H)

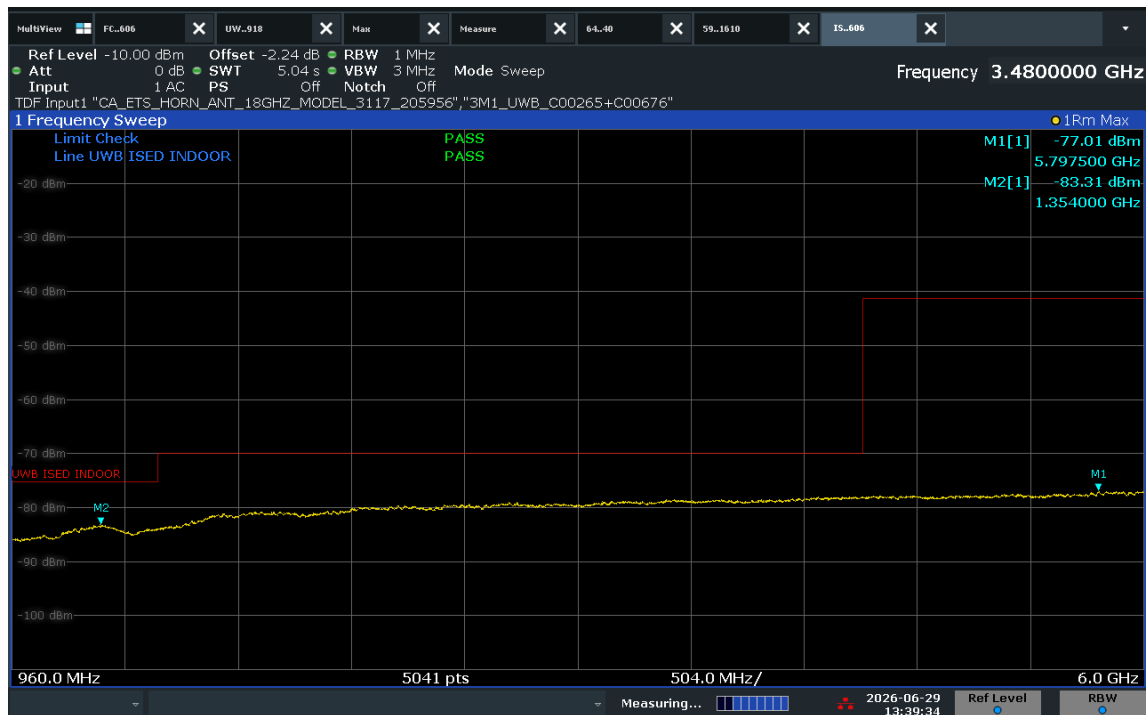


Plot 7-16. FCC Radiated Spurious Emissions 960-6000MHz (Ch. 5, Config 9, Payload 125B Ant. Pol. V)

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
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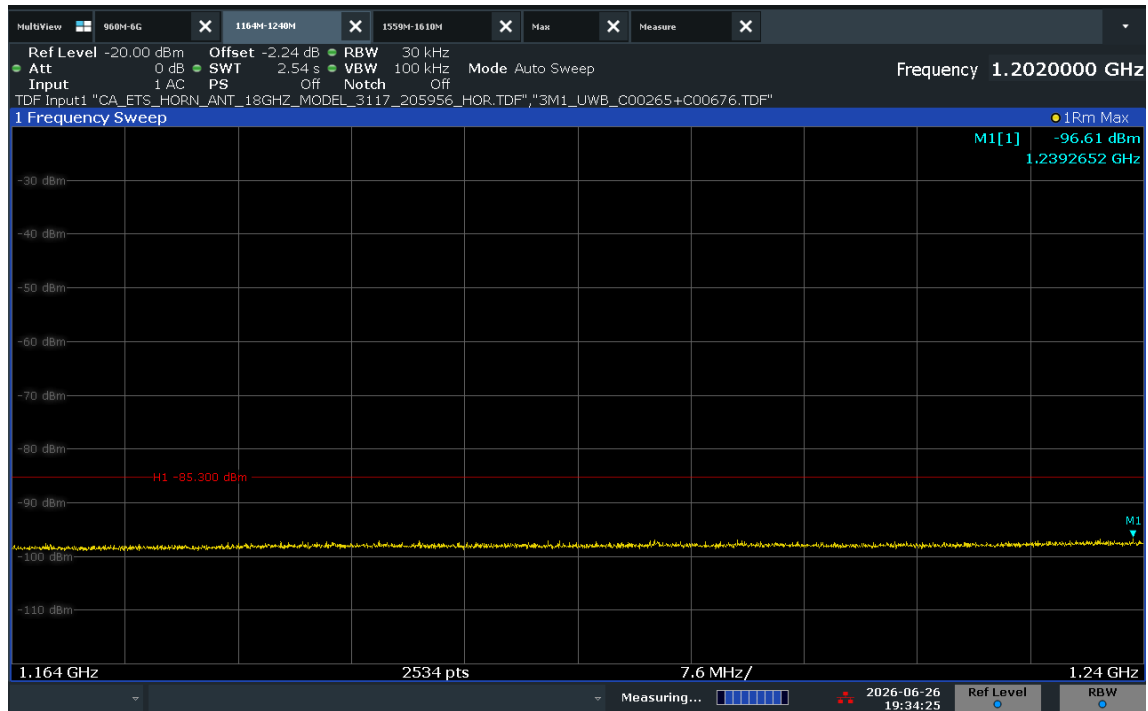


Plot 7-17. ISED Radiated Spurious Emission 960-6000MHz (Ch. 5, Config 9, Payload 125B Ant. Pol. H)



Plot 7-18. ISED Radiated Spurious Emission 960-6000MHz (Ch. 5, Config 9, Payload 125B Ant. Pol. V)

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
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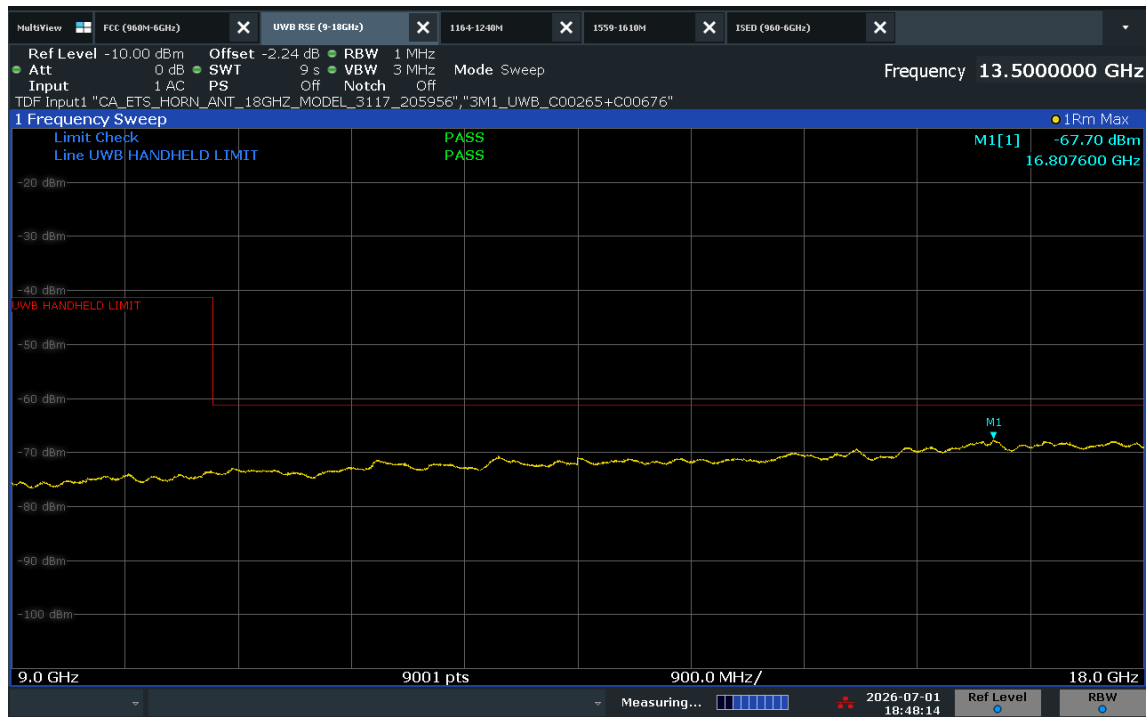


Plot 7-19. Radiated Spurious Emission 1164-1240MHz (Ch. 5, Config 9, Payload 125B Ant. Pol. H/V)



Plot 7-20. Radiated Spurious Emission 1559-1610MHz (Ch. 5, Config 9, Payload 125B Ant. Pol. H/V)

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
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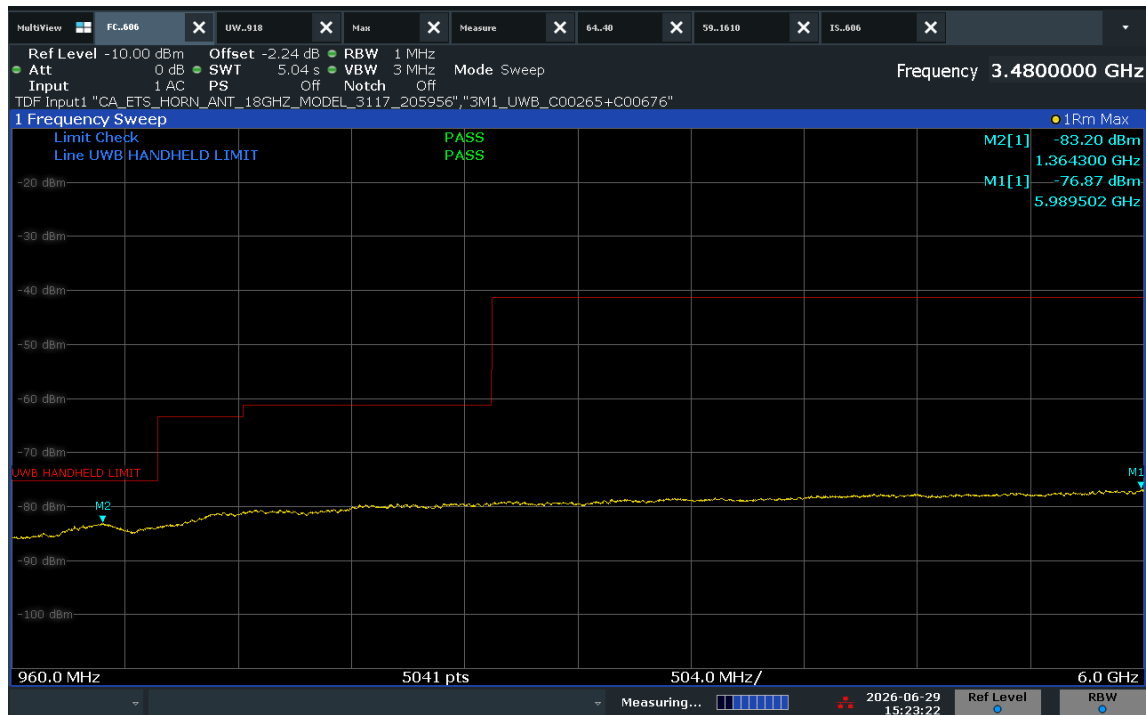


Plot 7-21. Radiated Spurious Emission 9-18GHz (Ch. 5, Config 9, Payload 125B Ant. Pol. H)

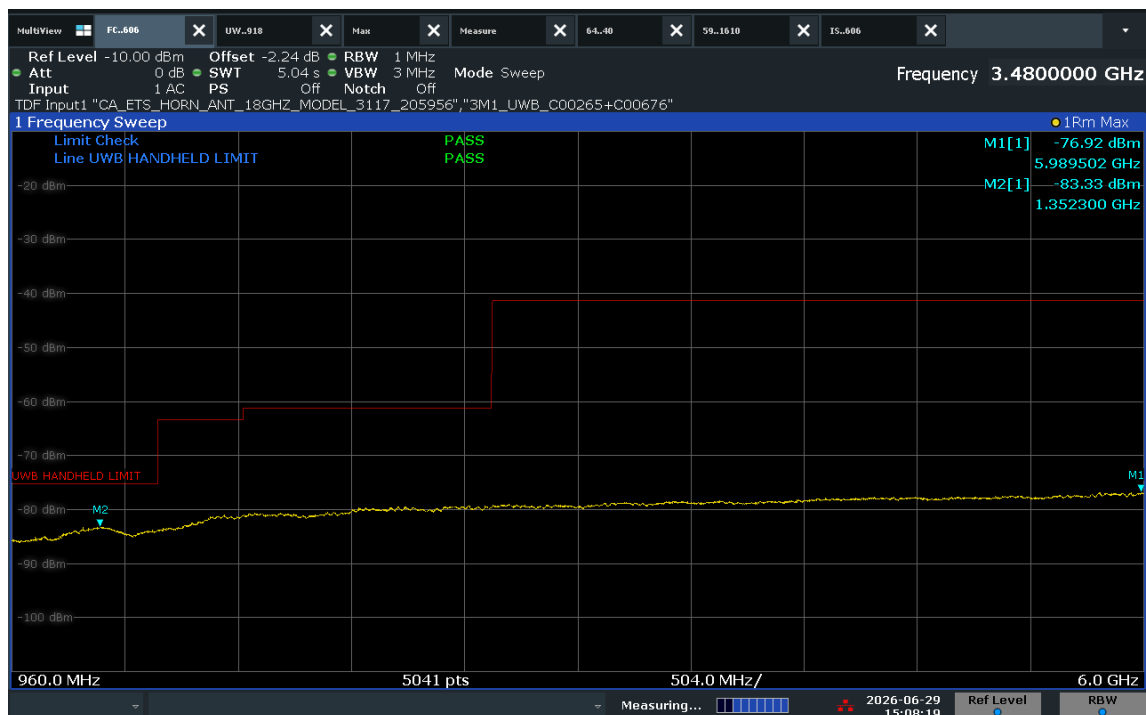


Plot 7-22. Radiated Spurious Emission 9-18GHz (Ch. 5, Config 9, Payload 125B Ant. Pol. V)

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
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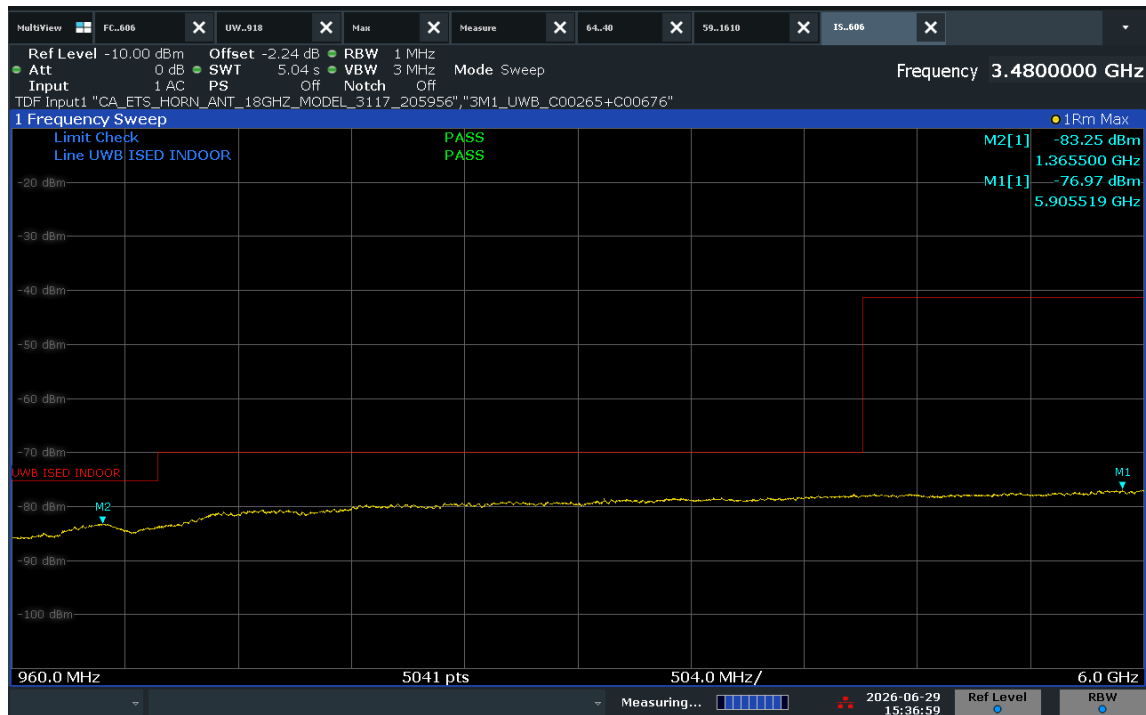


Plot 7-23. FCC Radiated Spurious Emission 960-6000MHz (Ch. 9, Config 9, Payload 125B Ant. Pol. H)

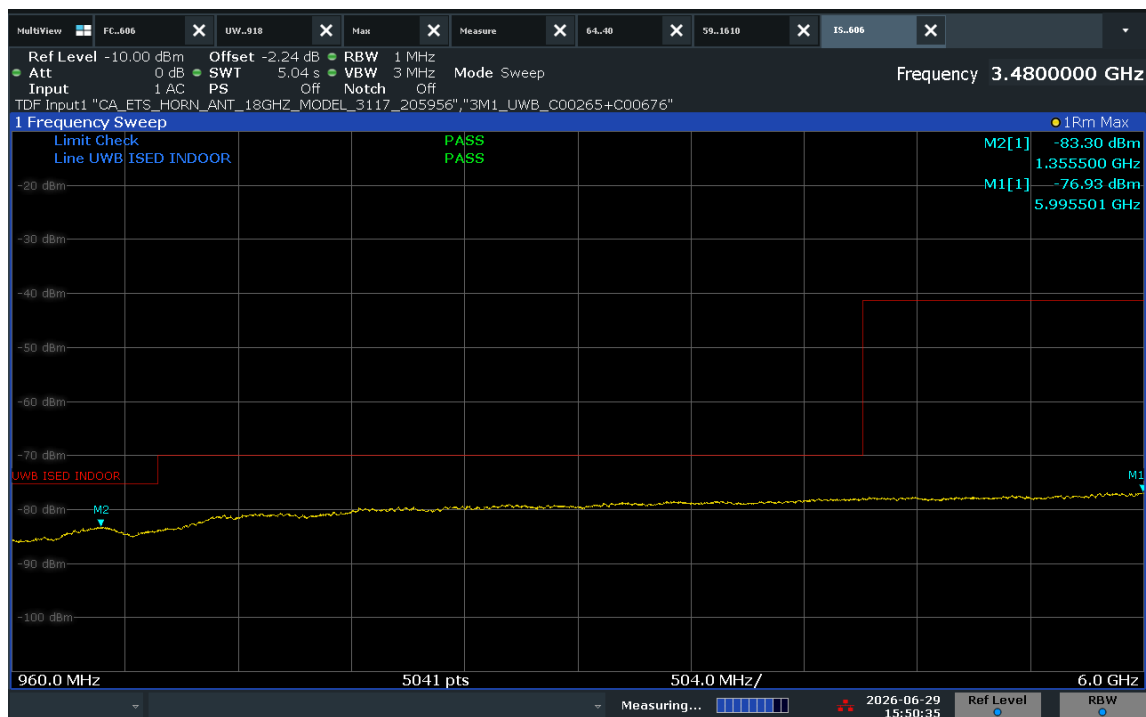


Plot 7-24. FCC Radiated Spurious Emission 960-6000MHz (Ch.9, Config 9, Payload 125B Ant. Pol. V)

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
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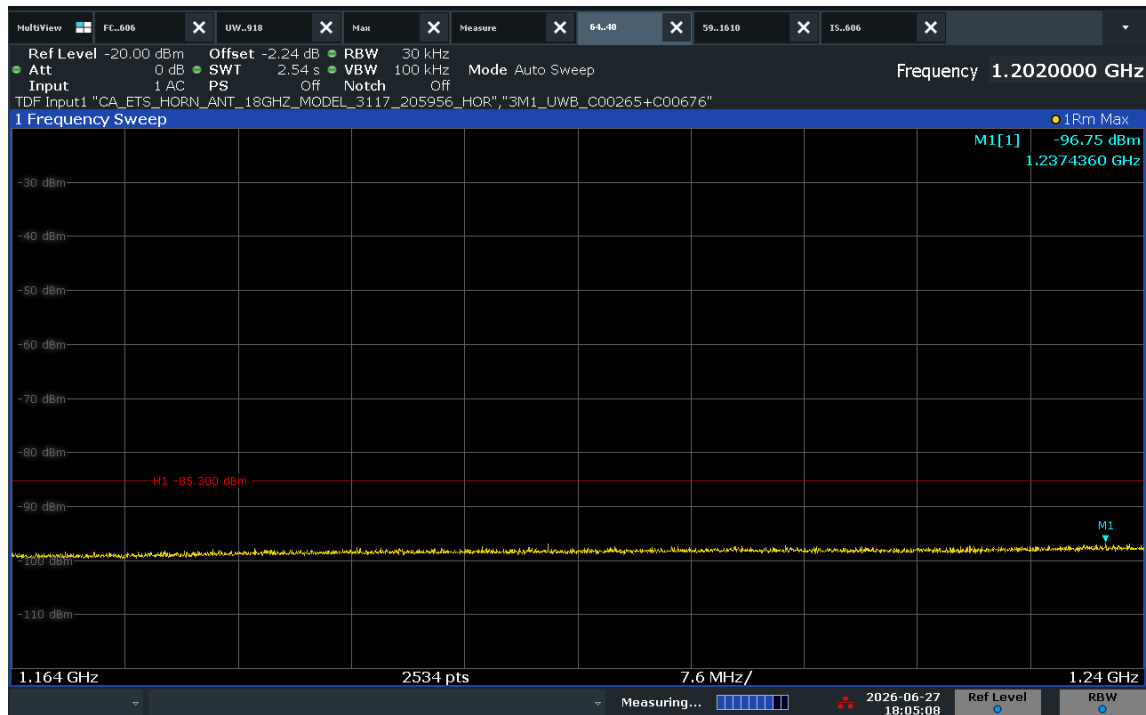


Plot 7-25. ISED Radiated Spurious Emission 960-6000MHz (Ch. 9, Config 9, Payload 125B Ant. Pol. H)

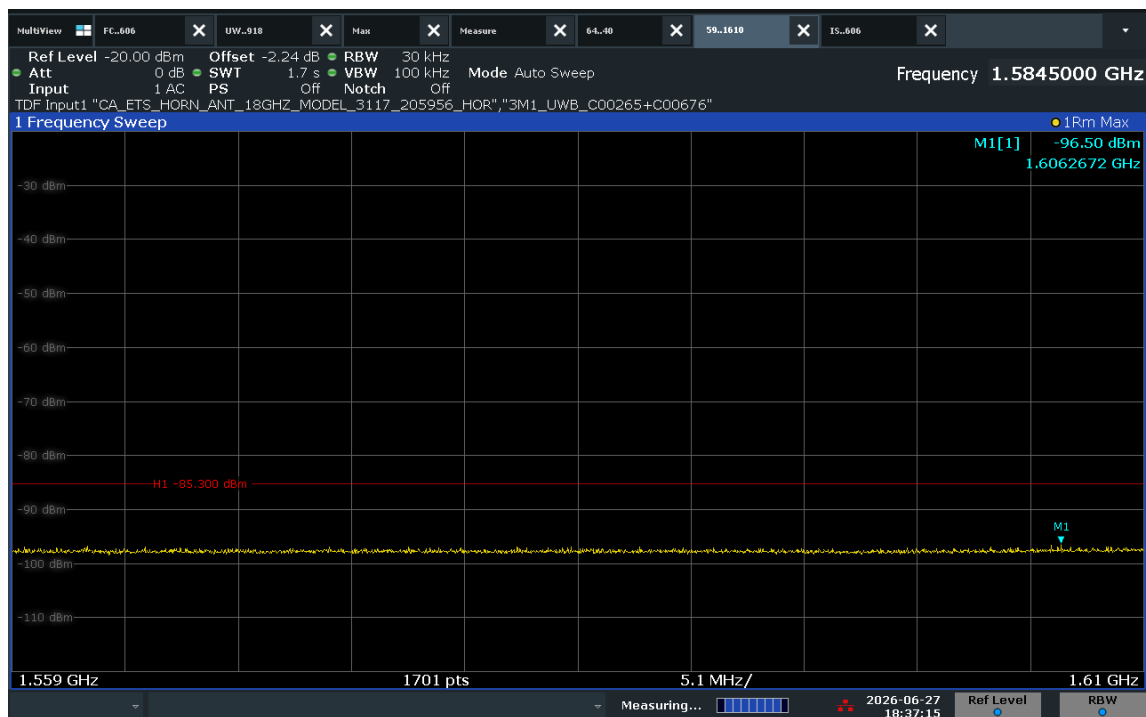


Plot 7-26. ISED Radiated Spurious Emission 960-6000MHz (Ch.9, Config 9, Payload 125B Ant. Pol. V)

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
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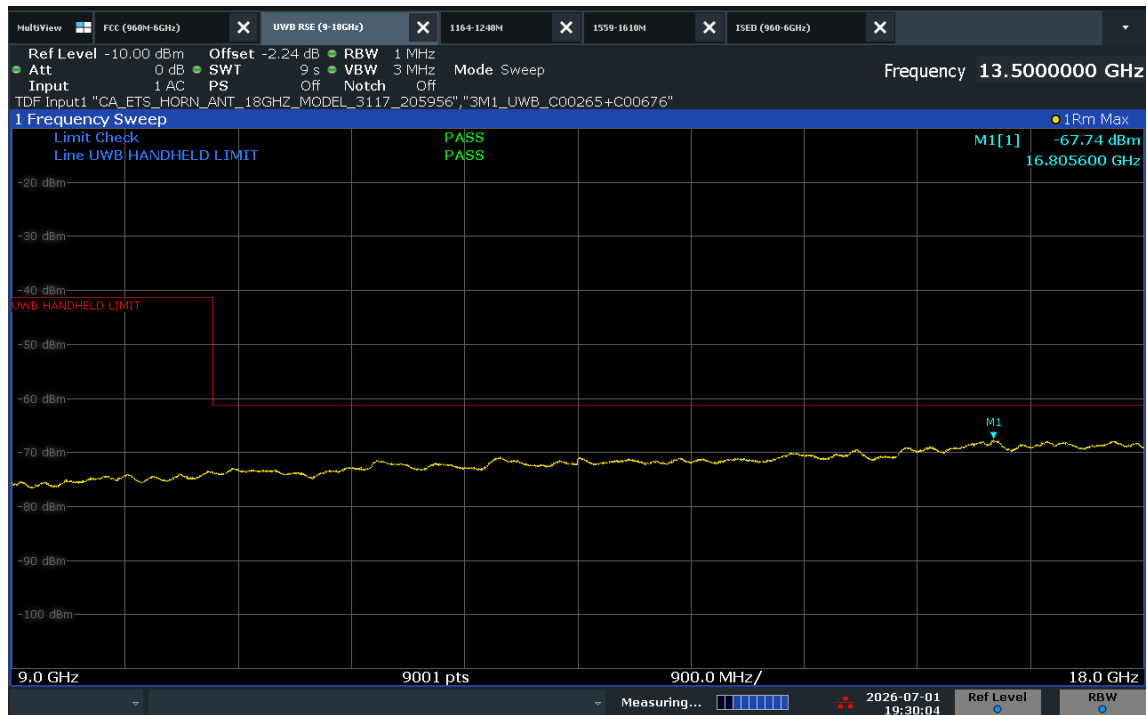


Plot 7-27. Radiated Spurious Emission 1164-1240MHz (Ch. 9, Config 9, Payload 125B Ant. Pol. H/V)

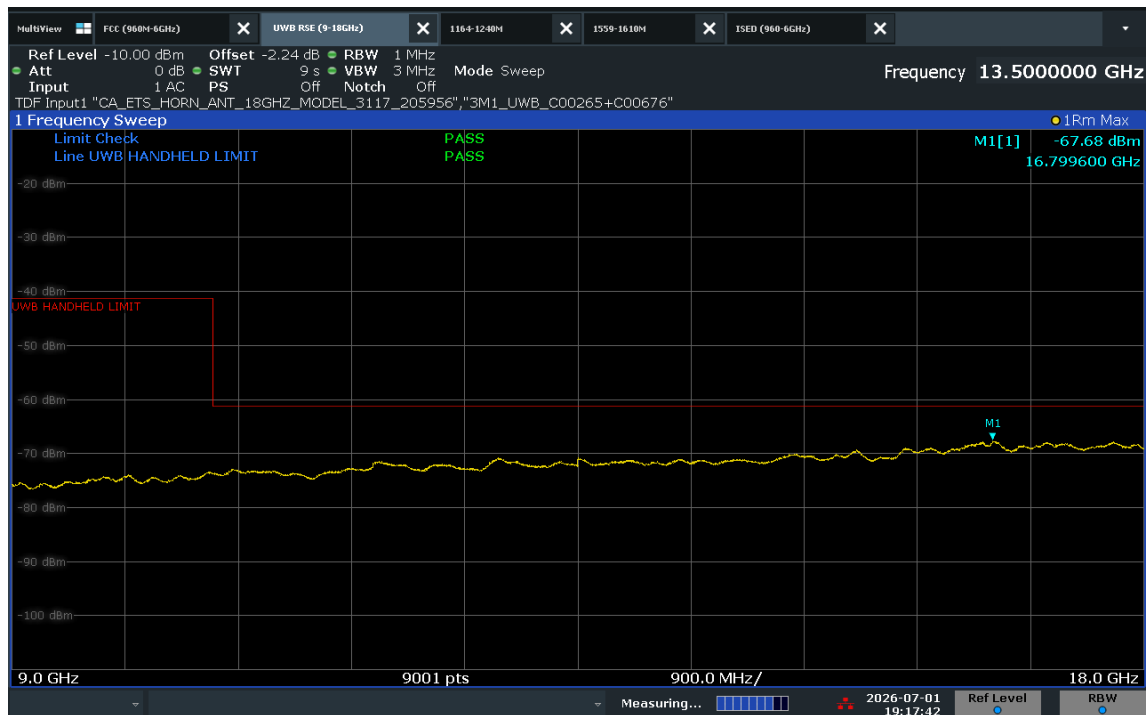


Plot 7-28. Radiated Spurious Emission 1559-1610MHz (Ch. 9, Config 9, Payload 125B Ant. Pol. H/V)

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
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Plot 7-29. Radiated Spurious Emission 9-18GHz (Ch. 9, Config 9, Payload 125B Ant. Pol. H)

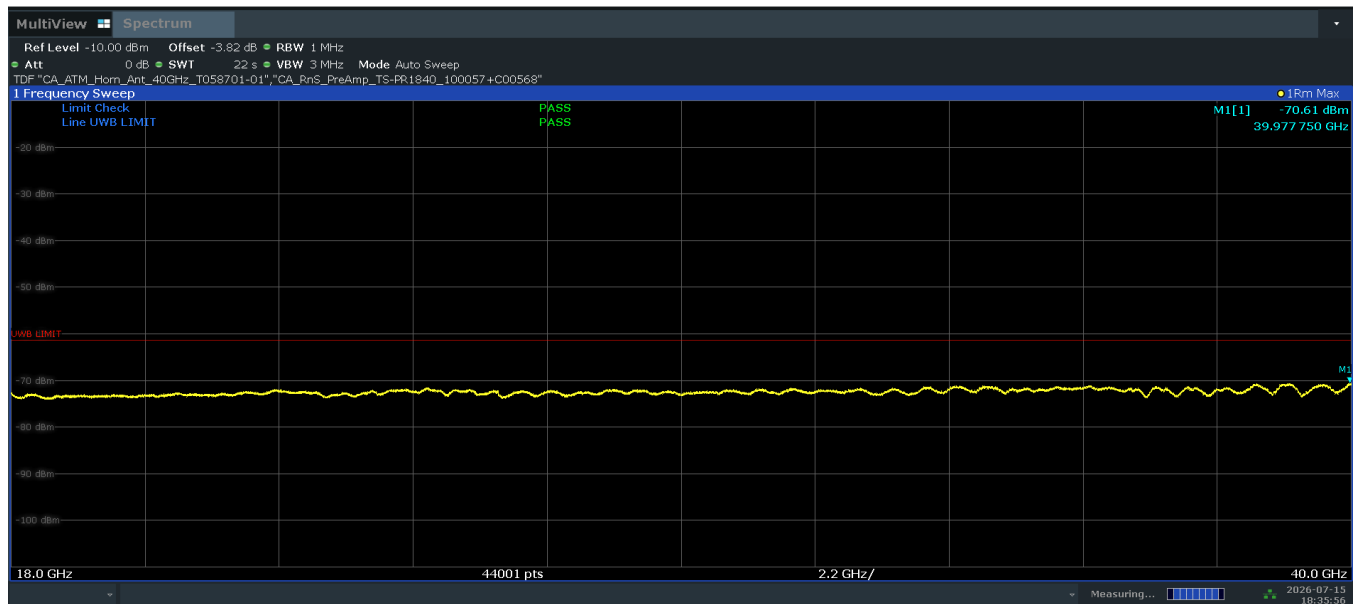


Plot 7-30. Radiated Spurious Emission 9-18GHz (Ch. 9, Config 9, Payload 125B Ant. Pol. V)

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
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Radiated Spurious Emissions (Above 18GHz)

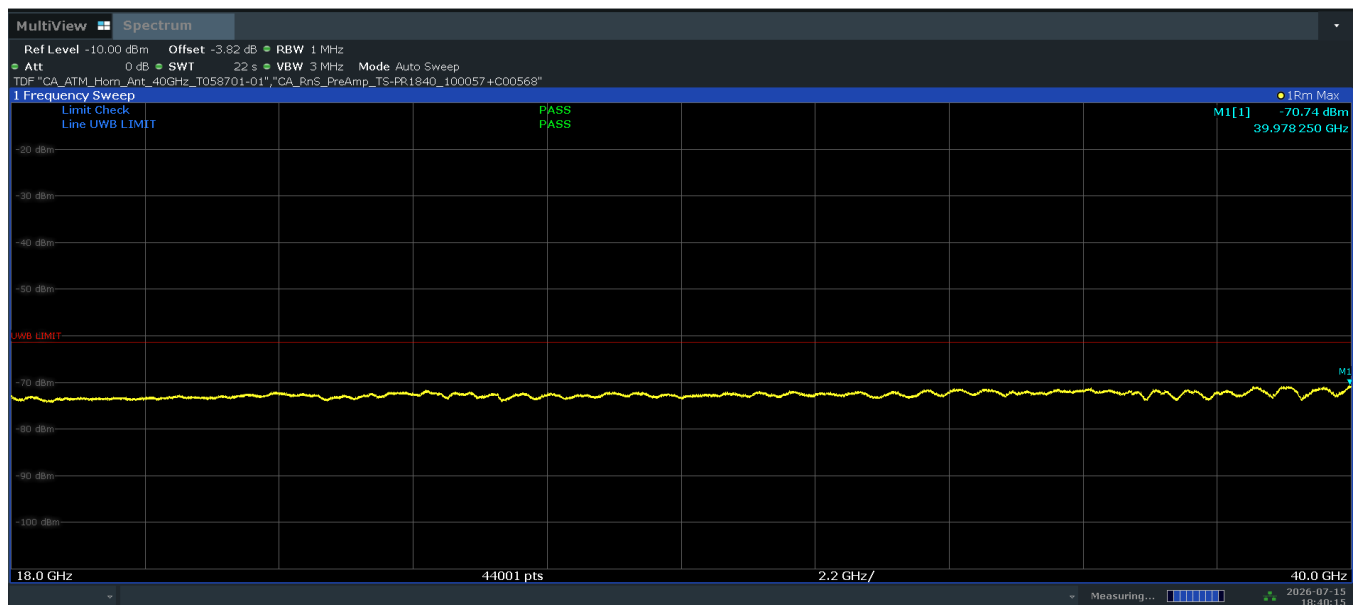
Test Plot



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Plot 7-31. Radiated Spurious Emission 18-40GHz (Ch. 5, Config 9, Payload 125B Ant. Pol. H)

Test Plot

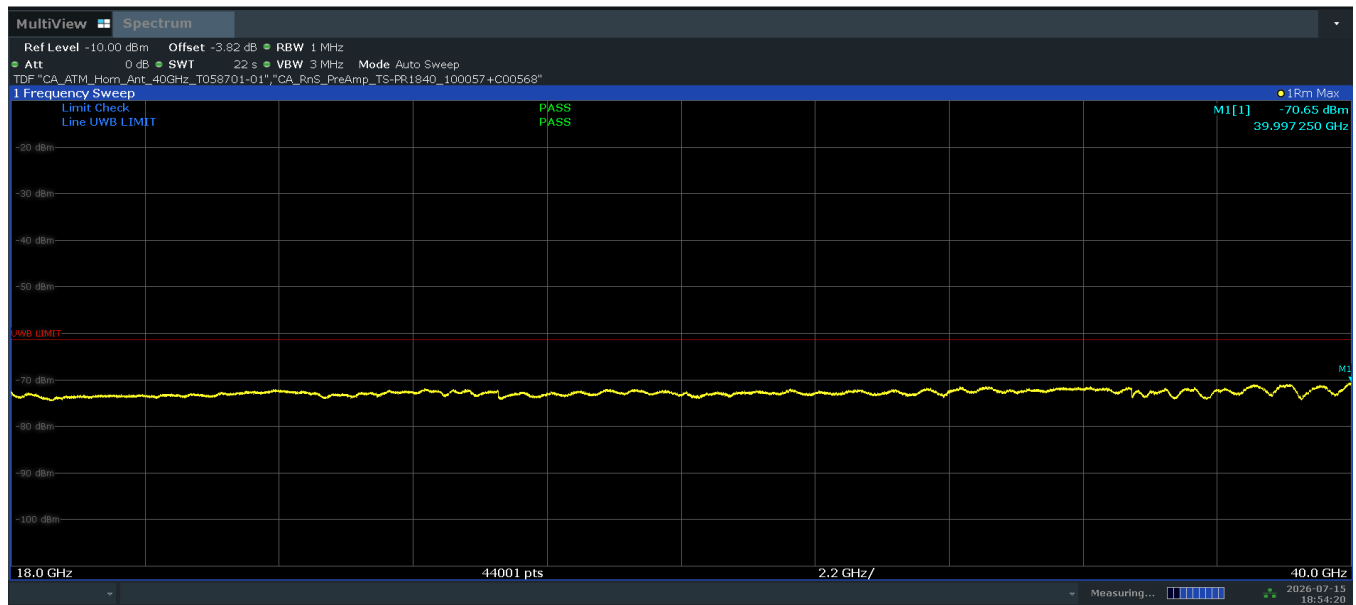


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Plot 7-32. Radiated Spurious Emission 18-40GHz (Ch. 5, Config 9, Payload 125B Ant. Pol. V)

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
Test Report S/N: 1C2604100029-09.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 46 of 62

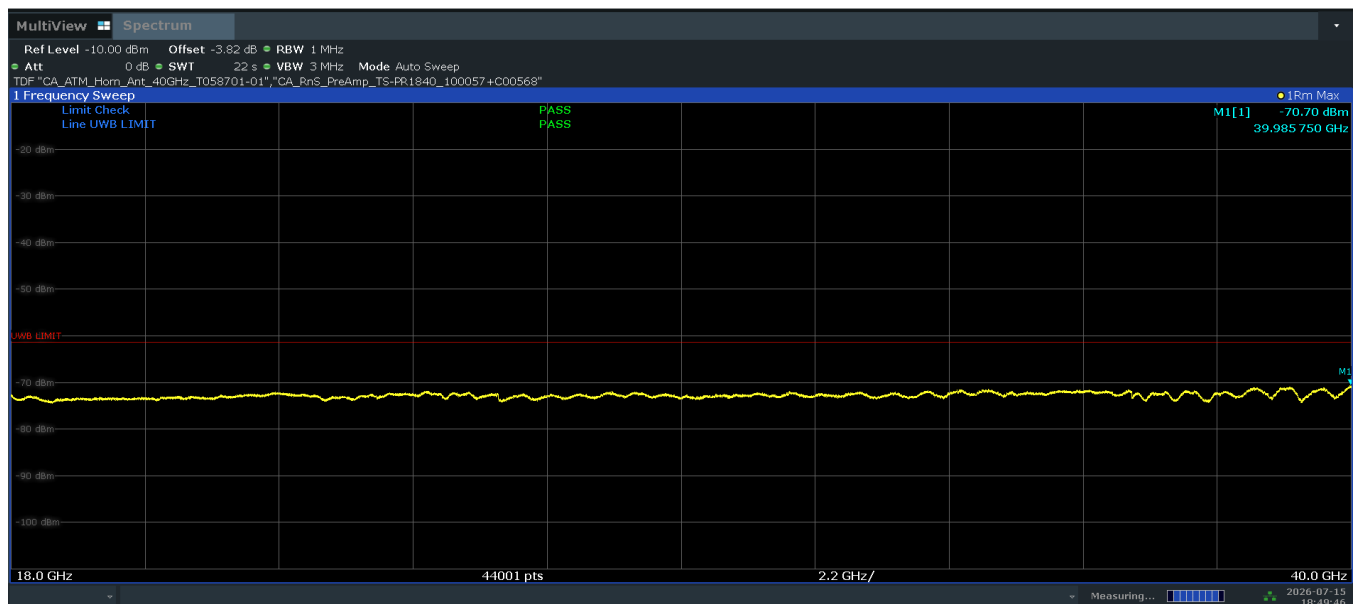
Test Plot



06:54:21 PM 07/15/2026

Plot 7-33. Radiated Spurious Emission 18-40GHz (Ch. 9, Config 9, Payload 125B Ant. Pol. H)

Test Plot



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Plot 7-34. Radiated Spurious Emission 18-40GHz (Ch. 9, Config 9, Payload 125B Ant. Pol. V)

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
Test Report S/N: 1C2604100029-09.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 47 of 62

Radiated Spurious Emission Measurements (960MHz-18GHz)

Distance of Measurements: 0.6 Meters
 Operating Frequency: 6500 MHz
 Channel: 5
 Config: 9
 Payload: 125B

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Conversion Factor [dB]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1364	Avg	V	-	-	-78.90	-2.06	-2.24	-83.19	-75.30	-7.89
1902	Avg	H	-	-	-78.98	0.18	-2.24	-81.03	-63.30	-17.73
2995	Avg	H	-	-	-78.55	1.43	-2.24	-79.35	-61.30	-18.05
5998	Avg	H	-	-	-79.49	4.87	-2.24	-76.86	-41.30	-35.56
10571	Avg	H	-	-	-80.22	9.04	-2.24	-73.41	-41.30	-32.11
16808	Avg	H	-	-	-79.40	13.94	-2.24	-67.70	-61.30	-6.40

Table 7-15. Radiated Spurious Emission Measurements 960MHz-18GHz (FCC)

Distance of Measurements: 0.6 Meters
 Operating Frequency: 6500 MHz
 Channel: 5
 Config: 9
 Payload: 125B

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Conversion Factor [dB]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1366	Avg	H	-	-	-78.86	-2.09	-2.24	-83.19	-75.30	-7.89
1987	Avg	H	-	-	-79.15	0.39	-2.24	-81.00	-70.00	-11.00
3098	Avg	H	-	-	-78.90	1.79	-2.24	-79.35	-70.00	-9.35
5829	Avg	H	-	-	-78.93	4.43	-2.24	-76.73	-41.30	-35.43
10571	Avg	H	-	-	-80.22	9.04	-2.24	-73.41	-41.30	-32.11
16808	Avg	H	-	-	-79.40	13.94	-2.24	-67.70	-61.30	-6.40

Table 7-16. Radiated Spurious Emission Measurements 960MHz-18GHz (ISED)

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
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Radiated Spurious Emission Measurements (960MHz-18GHz)

Distance of Measurements: 0.6 Meters
 Operating Frequency: 8000 MHz
 Channel: 9
 Config: 9
 Payload: 125B

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Conversion Factor [dB]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1364	Avg	H	-	-	-78.90	-2.06	-2.24	-83.20	-75.30	-7.90
1989	Avg	H	-	-	-79.18	0.37	-2.24	-81.05	-63.30	-17.75
2994	Avg	H	-	-	-78.53	1.43	-2.24	-79.34	-61.30	-18.04
5990	Avg	H	-	-	-79.48	4.85	-2.24	-76.87	-41.30	-35.57
10573	Avg	H	-	-	-80.24	9.05	-2.24	-73.42	-41.30	-32.12
16800	Avg	V	-	-	-79.36	13.92	-2.24	-67.68	-61.30	-6.38

Table 7-17. Radiated Spurious Emission Measurements 960MHz-18GHz (FCC)

Distance of Measurements: 0.6 Meters
 Operating Frequency: 8000 MHz
 Channel: 9
 Config: 9
 Payload: 125B

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Conversion Factor [dB]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1366	Avg	H	-	-	-78.92	-2.09	-2.24	-83.25	-75.30	-7.95
1902	Avg	H	-	-	-78.91	0.18	-2.24	-80.97	-70.00	-10.97
2963	Avg	H	-	-	-78.42	1.29	-2.24	-79.36	-70.00	-9.36
5996	Avg	V	-	-	-79.56	4.86	-2.24	-76.93	-41.30	-35.63
10573	Avg	H	-	-	-80.24	9.05	-2.24	-73.42	-41.30	-32.12
16800	Avg	V	-	-	-79.36	13.92	-2.24	-67.68	-61.30	-6.38

Table 7-18. Radiated Spurious Emission Measurements 960MHz-18GHz (ISED)

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
Test Report S/N: 1C2604100029-09.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 49 of 62

Radiated Spurious Emission Measurements (Above 18GHz)

Distance of Measurements: 0.5 Meters
 Operating Frequency: 6500 MHz
 Channel: 5
 Config: 9
 Payload: 125B

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Conversion Factor [dB]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
18000	Avg	H	-	-	-64.50	-4.06	-3.82	-72.38	-61.30	-11.08
24865	Avg	H	-	-	-63.33	-4.24	-3.82	-71.39	-61.30	-10.09
28021	Avg	H	-	-	-65.05	-2.81	-3.82	-71.68	-61.30	-10.38
35691	Avg	H	-	-	-62.24	-4.97	-3.82	-71.03	-61.30	-9.73
39978	Avg	H	-	-	-65.13	-1.66	-3.82	-70.61	-61.30	-9.31

Table 7-19. Radiated Spurious Emission Measurements 18-40GHz

Distance of Measurements: 0.5 Meters
 Operating Frequency: 8000 MHz
 Channel: 9
 Config: 9
 Payload: 125B

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Conversion Factor [dB]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
18000	Avg	H	-	-	-64.54	-4.06	-3.82	-72.43	-61.30	-11.13
24859	Avg	H	-	-	-63.33	-4.24	-3.82	-71.39	-61.30	-10.09
28005	Avg	H	-	-	-64.98	-2.80	-3.82	-71.59	-61.30	-10.29
35693	Avg	H	-	-	-62.32	-4.97	-3.82	-71.11	-61.30	-9.81
39997	Avg	H	-	-	-65.21	-1.62	-3.82	-70.65	-61.30	-9.35

Table 7-20. Radiated Spurious Emission Measurements 18-40GHz

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
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7.7 Radiated Spurious Emissions Measurements – Below 960MHz

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 (7.5) must not exceed the limits shown in Table 7-21 per Section 15.209 and RSS-Gen (7.4.3).

Frequency	Field Strength [μV/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 7-21. Radiated Limits

Test Procedures Used

ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

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

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
Test Report S/N: 1C2604100029-09.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 51 of 62

Test Setup

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

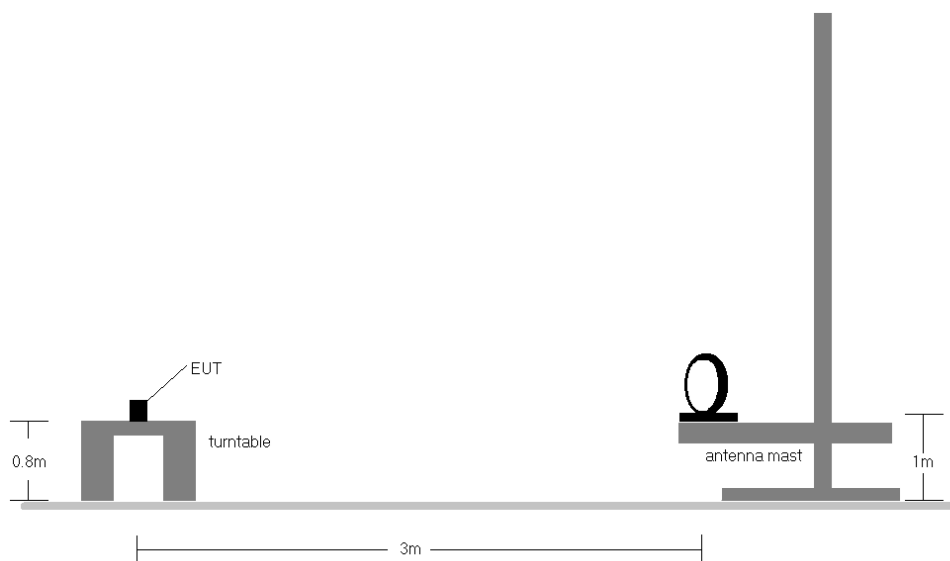


Figure 7-6. Radiated Test Setup < 30Mhz

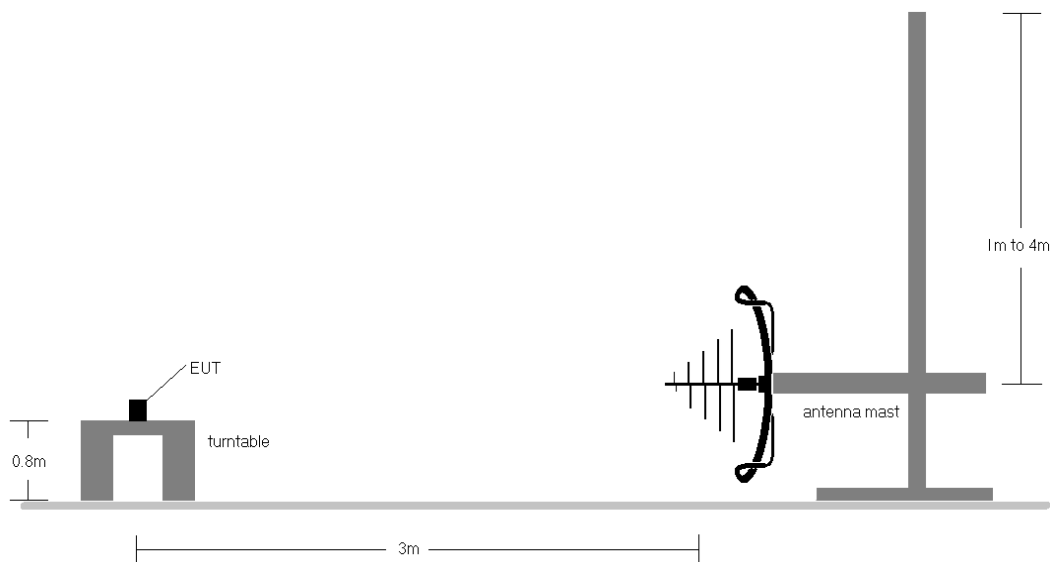


Figure 7-7. Radiated Test Setup < 1GHz

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
Test Report S/N: 1C2604100029-09.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 52 of 62

V 12.0 03/03/2026

Test Notes

1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen (7.5) are below the limit shown in Table 7-21.
2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes. For below 30MHz the loop antenna was positioned in 3 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 center channel of the mode, band, and modulation that produced the worst case results during the transmitter spurious emissions testing.
7. No spurious emissions were detected within 20dB of the limit below 30MHz.
8. 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.
9. 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
10. All modes of operation were investigated and the worst-case emissions are reported.

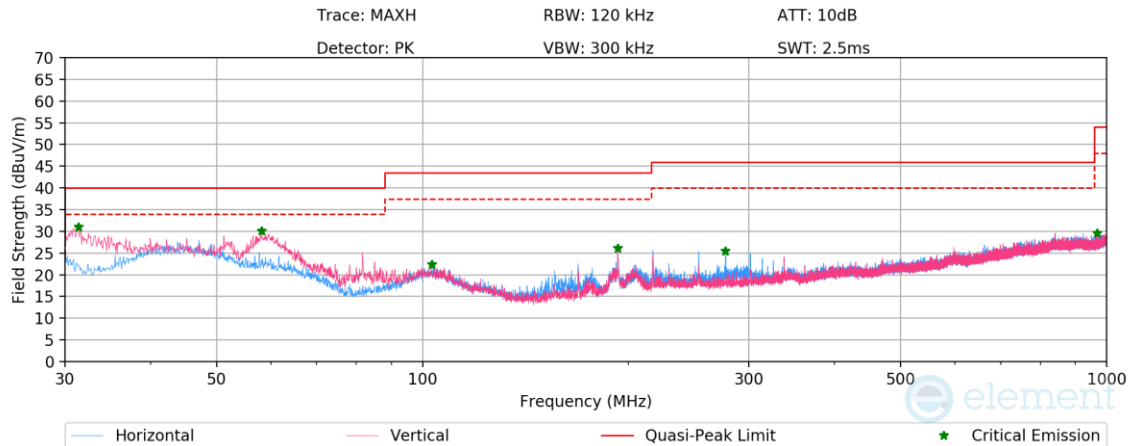
Sample Calculations

Determining Spurious Emissions Levels

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

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
Test Report S/N: 1C2604100029-09.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 53 of 62

Radiated Spurious Emissions Measurements (Below 1GHz)

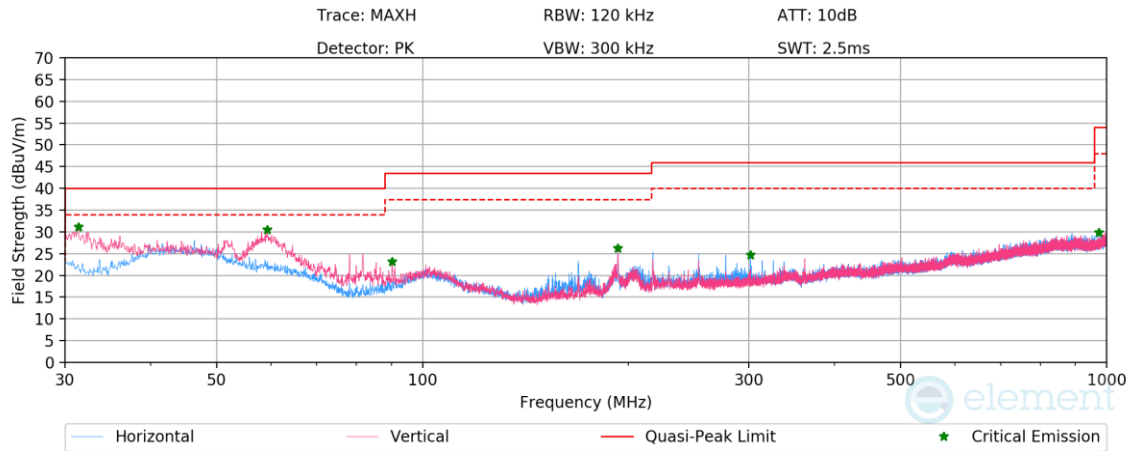


Plot 7-35. Radiated Spurious Emission 30-960MHz (Ch. 5, Config 9, Payload 125B with AC/DC Adapter + Magnetic Charger)

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]
31.38	Max-Peak	V	100	15	-56.68	-19.35	30.97	40.00	-9.03
58.14	Max-Peak	V	100	171	-60.48	-16.43	30.08	40.00	-9.92
103.20	Max-Peak	H	200	20	-66.76	-17.86	22.38	43.50	-21.12
192.97	Max-Peak	H	100	65	-62.92	-17.97	26.11	43.50	-17.39
277.15	Max-Peak	H	100	72	-65.67	-15.90	25.43	46.00	-20.57
969.28	Max-Peak	V	100	7	-73.13	-4.23	29.64	54.00	-24.36

Table 7-22. Radiated Spurious Emission 30-960MHz (Ch. 5, Config 9, Payload 125B with AC/DC Adapter + Magnetic Charger)

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
Test Report S/N: 1C2604100029-09.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 54 of 62



Plot 7-36. Radiated Spurious Emission 30-960MHz (Ch. 9, Config 9, Payload 125B with AC/DC Adapter + Magnetic Charger)

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
31.38	Max-Peak	V	100	42	-56.45	-19.35	31.19	40.00	-8.81
59.22	Max-Peak	V	100	342	-59.86	-16.69	30.45	40.00	-9.55
90.18	Max-Peak	V	100	317	-64.24	-19.62	23.15	43.50	-20.35
193.03	Max-Peak	V	100	324	-62.77	-17.96	26.27	43.50	-17.23
301.63	Max-Peak	H	100	302	-66.91	-15.33	24.76	46.00	-21.24
973.78	Max-Peak	H	100	255	-73.39	-3.77	29.83	54.00	-24.17

Table 7-23. Radiated Spurious Emission 30-960MHz (Ch. 9, Config 9, Payload 125B with AC/DC Adapter + Magnetic Charger)

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
Test Report S/N: 1C2604100029-09.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 55 of 62

V 12.0 03/03/2026

7.8 AC Line-Conducted Emission Measurement

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 (7.4.2).

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 7-24. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, 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-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
Test Report S/N: 1C2604100029-09.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 56 of 62

Test Setup

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

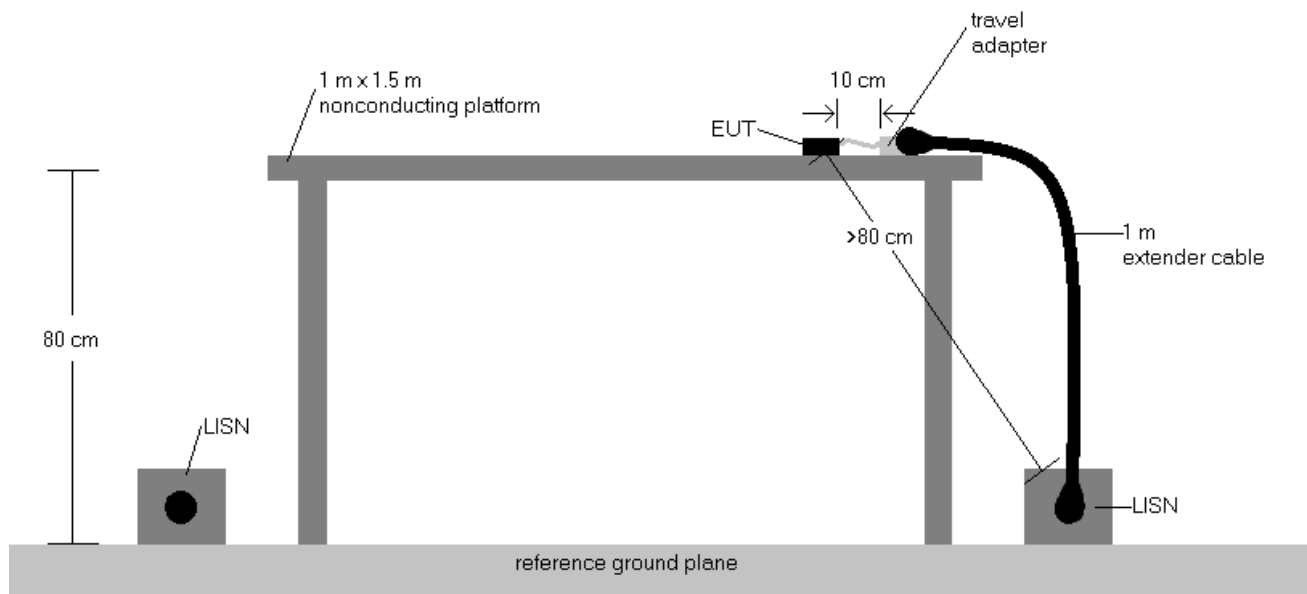
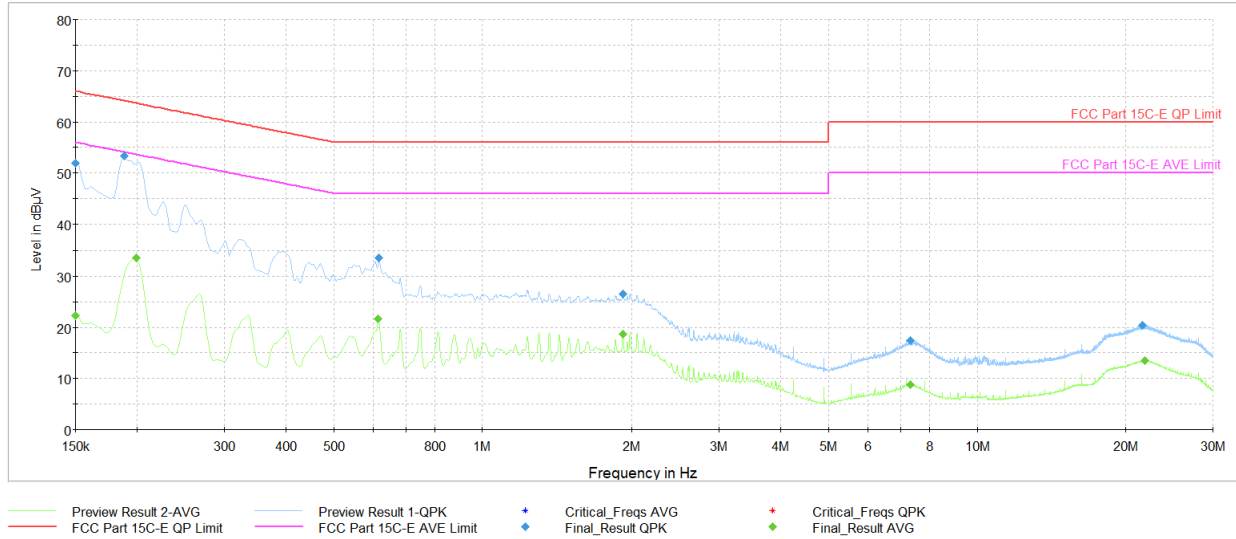


Figure 7-8. Test Instrument & Measurement Setup

Test Notes

1. All modes of operation were investigated and the worst-case emissions are reported. 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 (7.4.2).
3. $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
4. $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Corr. (dB)}$
5. $\text{Margin (dB)} = \text{QP/AV Level (dB}\mu\text{V)} - \text{QP/AV Limit (dB}\mu\text{V)}$
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 adapter via USB-C cable with magnetic charger
 - b. EUT powered by host PC via USB-C cable with magnetic charger

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
Test Report S/N: 1C2604100029-09.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 57 of 62

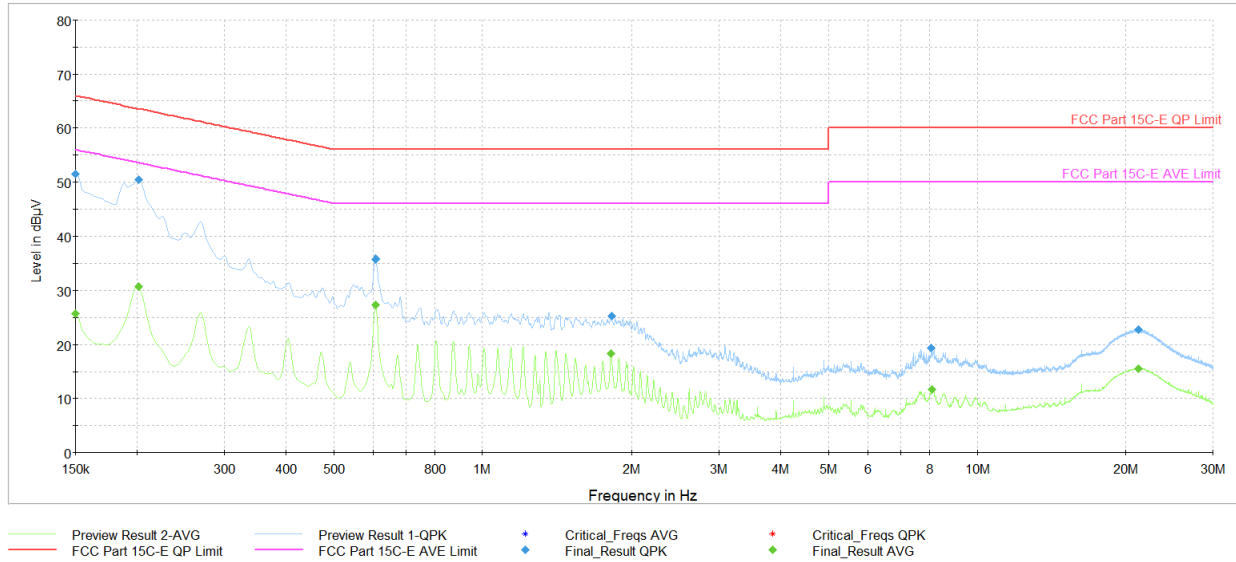


Plot 7-37. AC Line Conducted (Ch. 5, Config 9, Payload 125B L1, with Laptop + Magnetic Charger)

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.150	FINAL	—	22.20	56.00	-33.80	L1	GND
0.150	FINAL	52.0	—	66.00	-14.01	L1	GND
0.188	FINAL	53.3	—	64.11	-10.83	L1	GND
0.200	FINAL	—	33.62	53.63	-20.01	L1	GND
0.616	FINAL	—	21.61	46.00	-24.39	L1	GND
0.618	FINAL	33.6	—	56.00	-22.39	L1	GND
1.916	FINAL	26.5	—	56.00	-29.53	L1	GND
1.919	FINAL	—	18.63	46.00	-27.37	L1	GND
7.316	FINAL	17.5	—	60.00	-42.55	L1	GND
7.334	FINAL	—	8.79	50.00	-41.21	L1	GND
21.590	FINAL	20.3	—	60.00	-39.68	L1	GND
21.874	FINAL	—	13.54	50.00	-36.46	L1	GND

Table 7-25. AC Line Conducted Data (Ch. 5, Config 9, Payload 125B L1, with Laptop + Magnetic Charger)

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
Test Report S/N: 1C2604100029-09.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 58 of 62

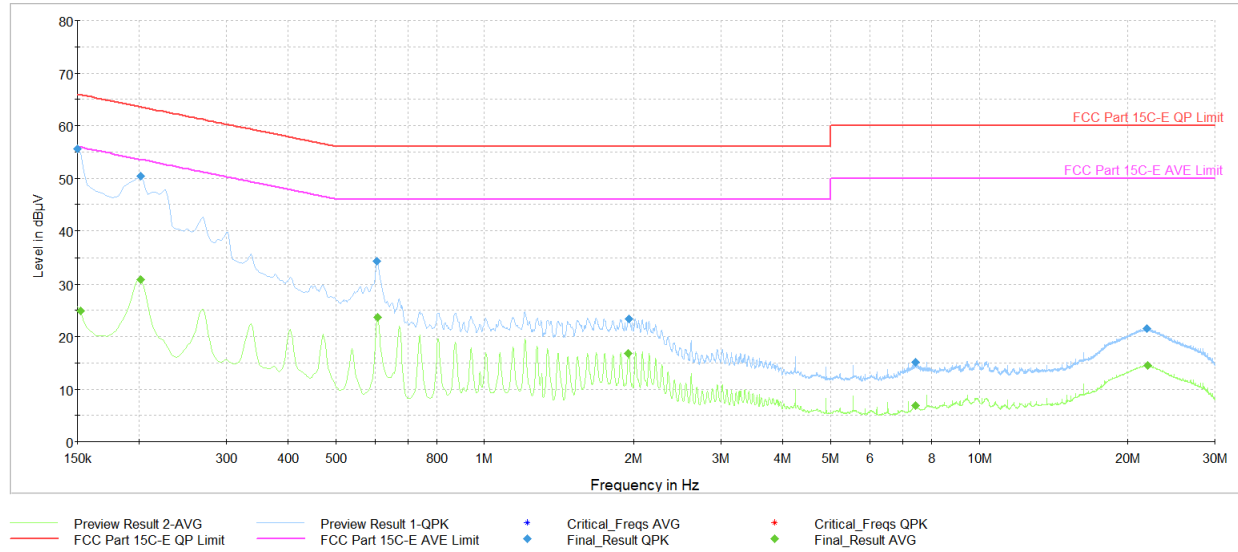


Plot 7-38. AC Line Conducted (Ch. 5, Config 9, Payload 125B N, with Laptop + Magnetic Charger)

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.150	FINAL	—	25.69	56.00	-30.31	N	GND
0.150	FINAL	51.5	—	66.00	-14.50	N	GND
0.202	FINAL	—	30.75	53.54	-22.78	N	GND
0.202	FINAL	50.4	—	63.54	-13.12	N	GND
0.607	FINAL	—	27.37	46.00	-18.63	N	GND
0.607	FINAL	35.9	—	56.00	-20.15	N	GND
1.815	FINAL	—	18.38	46.00	-27.62	N	GND
1.817	FINAL	25.3	—	56.00	-30.68	N	GND
8.070	FINAL	19.3	—	60.00	-40.69	N	GND
8.099	FINAL	—	11.66	50.00	-38.34	N	GND
21.190	FINAL	—	15.56	50.00	-34.44	N	GND
21.226	FINAL	22.8	—	60.00	-37.23	N	GND

Table 7-26. AC Line Conducted Data (Ch. 5, Config 9, Payload 125B N, with Laptop + Magnetic Charger)

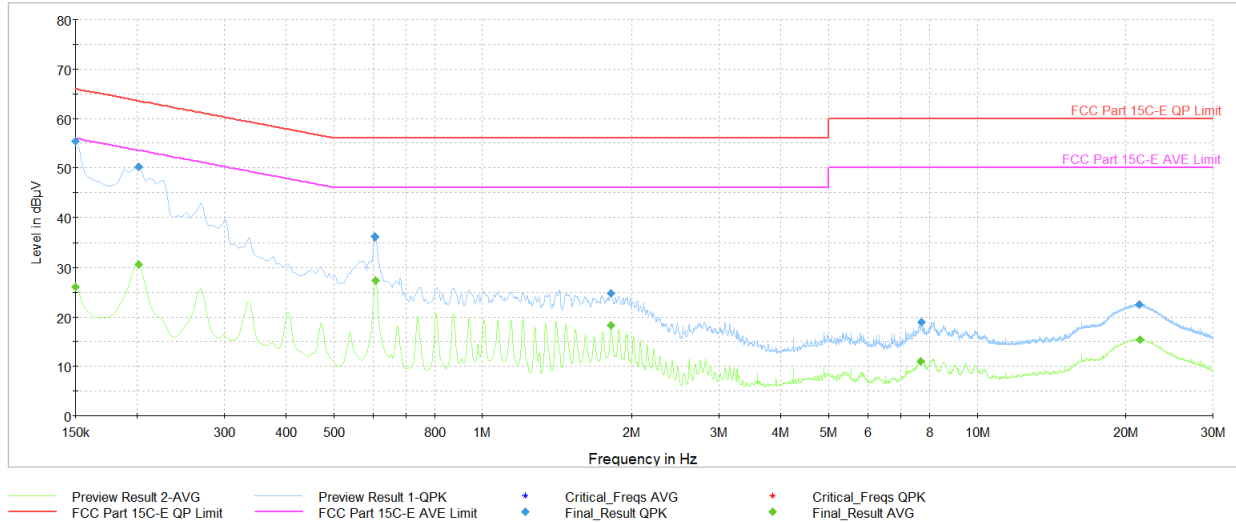
FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
Test Report S/N: 1C2604100029-09.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 59 of 62



Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.150	FINAL	55.6	—	66.00	-10.40	L1	GND
0.152	FINAL	—	24.91	55.88	-30.96	L1	GND
0.202	FINAL	—	30.88	53.54	-22.65	L1	GND
0.202	FINAL	50.3	—	63.54	-13.20	L1	GND
0.605	FINAL	34.3	—	56.00	-21.66	L1	GND
0.607	FINAL	—	23.63	46.00	-22.37	L1	GND
1.950	FINAL	—	16.81	46.00	-29.19	L1	GND
1.957	FINAL	23.4	—	56.00	-32.65	L1	GND
7.424	FINAL	15.2	—	60.00	-44.84	L1	GND
7.431	FINAL	—	6.85	50.00	-43.15	L1	GND
21.878	FINAL	21.5	—	60.00	-38.51	L1	GND
21.944	FINAL	—	14.50	50.00	-35.50	L1	GND

Table 7-27. AC Line Conducted Data (Ch. 9, Config 9, Payload 125B L1, with Laptop + Magnetic Charger)

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
Test Report S/N: 1C2604100029-09.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 60 of 62



Plot 7-40. AC Line Conducted Plot (Ch. 9, Config 9, Payload 125B N, with Laptop + Magnetic Charger)

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.150	FINAL	—	26.00	56.00	-30.00	N	GND
0.150	FINAL	55.4	—	66.00	-10.61	N	GND
0.202	FINAL	—	30.54	53.54	-23.00	N	GND
0.202	FINAL	50.2	—	63.54	-13.30	N	GND
0.605	FINAL	36.1	—	56.00	-19.91	N	GND
0.607	FINAL	—	27.42	46.00	-18.58	N	GND
1.813	FINAL	24.8	—	56.00	-31.21	N	GND
1.813	FINAL	—	18.37	46.00	-27.63	N	GND
7.690	FINAL	—	11.05	50.00	-38.95	N	GND
7.706	FINAL	18.9	—	60.00	-41.10	N	GND
21.300	FINAL	22.5	—	60.00	-37.52	N	GND
21.336	FINAL	—	15.43	50.00	-34.57	N	GND

Table 7-28. AC Line Conducted Data (Ch. 9, Config 9, Payload 125B N, with Laptop + Magnetic Charger)

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
Test Report S/N: 1C2604100029-09.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 61 of 62

8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Apple Watch FCC ID: BCG-A3584** and **IC: 579C-A3584** is in compliance with Part 15 Subpart C (15.519) of the FCC Rules and RSS-220 of the Innovation, Science and Economic Development Canada Rules.

FCC ID: BCG-A3584 IC: 579C-A3584	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 6/1/2026 - 7/23/2026	EUT Type: Watch	Approved by: Technical Manager
Test Report S/N: 1C2604100029-09.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 62 of 62