

MEASUREMENT REPORT

FCC PART 15.519 / ISCED RSS-220 Ultra-Wideband

Applicant Name:

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

Date of Testing:

6/8/21 - 8/1/21

Test Site/Location:

PCTEST Lab. Morgan Hill, CA, USA

Test Report Serial No.:

1C2106070043-13.BCG

FCC ID:

BCG-A2475

IC:

579C-A2475

APPLICANT:

Apple Inc.

Application Type:

Certification

Model/HVIN:

A2475

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)

ISCED Specification:

RSS-Gen Issue 5, RSS-220 Issue 1

RSS-220 Subclass:

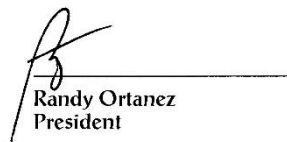
Hand-held Communication Devices

Test Procedure(s):

ANSI C63.10-2013, KDB 393764 D01 v02

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013 and KDB 393764 D01 v02. 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.



Randy Ortanez
President



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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 PCTEST Test Location

These measurement tests were conducted at the PCTEST 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 PCTEST located in Morgan Hill, CA 95037, U.S.A.

- PCTEST 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.
- PCTEST 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 ISSED Standards (RSS).
- PCTEST facility is a registered (22831) test laboratory with the site description on file with ISSED.

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Apple Watch FCC ID: BCG-A2475** and **IC: 579C-A2475**. 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.: TXX5NG90R0, T2GPRG7752

2.2 Device Capabilities

This device contains the following capabilities:

850/1700/1900 WCDMA/HSPA, Multi-band LTE, 802.11b/g/n WLAN, 802.11a/n UNII, Bluetooth (1x, EDR, HDR4, HDR8, LE-1M, LE-2M), NFC, UWB, 60.5GHz 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
5	6500	0	25
			65
			125
		1	45
			85
			125
		2	125
		3	125
		4	0
9	8000	0	25
			65
			125
		1	45
			85
			125
		2	125
		3	125
		4	0
		5	0

Table 2-1. UWB Frequency / Channel Operations

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Notes:

1. 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	LTE/WCDMA	UNII	UWB
	802.11 b/g/n	BDR, EDR, HDR4/8, LE	Mid band/ High band	802.11 a/n	Ch.5, Ch.9
Config 1	✓	✗	✗	✗	✓
Config 2	✗	✓	✗	✗	✓
Config 3	✗	✗	✓	✗	✓
Config 4	✗	✓	✓	✗	✗
Config 5	✓	✗	✓	✗	✗
Config 6	✗	✗	✓	✓	✗
Config 7	✗	✓	✗	✓	✗
Config 8	✓	✗	✓	✗	✓
Config 9	✗	✓	✓	✗	✓
Config 10	✗	✓	✓	✓	✗

Table 2-2. Simultaneous Transmission Configurations

✓= Support; ✗ = NOT Support

2. All above simultaneous transmission configurations have been tested and the worst case configuration was found to be configuration 10 (BT, LTE, and UNII). These results can be found in the RF Bluetooth, RF UNII and RF Part 27b/ RF RSS-199 reports.

2.3 Antenna Description

Following antenna gains provided by manufacturer were used for testing.

Frequency [GHz]	Antenna Gain (dBi)
6250-6750	-5.7
7750-8250	-5.8

Table 2-3. Highest Antenna Gain

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2.4 Test Support Equipment

1	Apple Macbook	Model:	A1398	S/N:	C2QKP008F6F3
	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:	A2687	S/N:	FV411420544MW6M4H
	w/ Dock	Model:	X241	S/N:	N/A
3	Apple Magnetic Charger	Model:	A2515	S/N:	DLC035200UJMFROAJ
	Apple Magnetic Charger	Model:	A2515	S/N:	DLC035202KRMFR0A2
4	Pathfinder Falcon	Model:	920-098626-01	S/N:	DLC034200APQ6PM1E
	SiP Socket	Model:	P2 X2011S PF 212	S/N:	DLC048500BP0KPG2N
5	Store Bracelet Assy	Model:	N/A	S/N:	DLC1197001R19G21N

Table 2-4. Test Support Equipment List

2.5 Test Configuration

The EUT was tested per the guidance of ANSI C63.10-2013 and KDB 393764 D01 v02. ANSI C63.10-2013 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing. See Sections 3.2 for AC line conducted emissions test setups, 3.3 for radiated emissions test setups.

The worst case configuration was investigated for all combinations of the three materials, aluminum, stainless steel, and titanium and 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.

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 960MHz, following configuration were investigated and the worst case was reported.

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

2.6 Software and Firmware

The test was conducted with firmware version WatchOS 8.0 installed on the EUT.

2.7 EMI Suppression Device(s)/Modifications

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

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3.0 DESCRIPTION OF TESTS

3.1 Evaluation Procedure

The measurement procedures described in the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices (ANSI C63.10-2013) and the guidance provided in KDB 393764 D01 v02 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.

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

Conclusion:

The EUT complies with the requirement of §15.203.

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5.0 MEASUREMENT UNCERTAINTY

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

Contribution	Expanded Uncertainty ($\pm$ dB)
Conducted Bench Top Measurements	1.65
Line Conducted Disturbance	2.75
Radiated Disturbance (<30MHz)	4.06
Radiated Disturbance (<1GHz)	4.30
Radiated Disturbance (>1GHz)	4.78
Radiated Disturbance (>18GHz)	4.79

Parameter	Expanded Uncertainty
Time	$\pm 0.02\%$

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6.0 TEST EQUIPMENT CALIBRATION DATA

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

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent Technologies	N9030A	3Hz-44GHz PXA Signal Analyzer	3/31/2021	Annual	3/31/2022	MY49430244
ATM	180-442-KF	20dB Nominal Gain Horn Antenna	12/9/2020	Annual	12/9/2021	T058701-01
ETS-Lindgren	3142E	BiConiLog Antenna (30MHz - 6GHz)	9/15/2020	Annual	9/15/2021	208204
ETS-Lindgren	3117	Double Ridged Guide Antenna (1-18 GHz)	5/3/2021	Annual	5/3/2022	205956
Keysight Technology	N9040B	UXA Signal Analyzer	12/19/2020	Annual	12/19/2021	MY57212015
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz - 8GHz)	12/3/2020	Annual	12/3/2021	102327
Rohde & Schwarz	TS-PR18	Pre-Amplifier (1GHz - 18GHz)	12/3/2020	Annual	12/3/2021	101648
Rohde & Schwarz	FSV40	Signal Analyzer (10Hz-40GHz)	3/16/2021	Annual	3/16/2022	101619
Rohde & Schwarz	ESW26	EMI Test Receiver	6/11/2021	Annual	6/11/2022	101299
Rohde & Schwarz	ESW44	EMI Test Receiver	11/9/2020	Annual	11/9/2021	101570
Rohde & Schwarz	TS-PR1840	Pre-Amplifier (18GHz - 40GHz)	4/29/2021	Annual	4/29/2022	100051
Rohde & Schwarz	TC-TA18	Cross Polarized Vivaldi Antenna (400MHz-18GHz)	10/2/2020	Annual	10/2/2021	101063
Rohde & Schwarz	HFH2-Z2	Loop Antenna	4/5/2021	Annual	4/5/2022	100519
Rohde & Schwarz	ENV216	Two-Line-V-Network (LISN)	12/7/2020	Annual	12/7/2021	101364

Table 6-1. Test Equipment List

Note:

For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date.

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7.0 TEST RESULTS

7.1 Summary

Company Name: Apple Inc.
FCC ID: BCG-A2475
IC: 579C-A2475
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 [6.7]	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 table in §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 [8.9]	Radiate Emissions Below 960MHz	Emissions in restricted bands must meet the radiated limits detailed in §15.209 (RSS-Gen [8.9])	AC LINE CONDUCTED	PASS	Section 7.7
§15.207	RSS-Gen [8.8]	AC Line Conducted Emissions 150kHz – 30MHz	< FCC 15.207 limits (RSS-Gen [8.8])		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.

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7.2 10dBc Bandwidth Measurement

§15.503 §15.519 (b)

Test Overview and Limit

The UWB bandwidth is the frequency band bounded by the points that are 10 dB 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 C63.10-2013 – Section 10.1
KDB 393764 D01 v02

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

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Test Setup

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

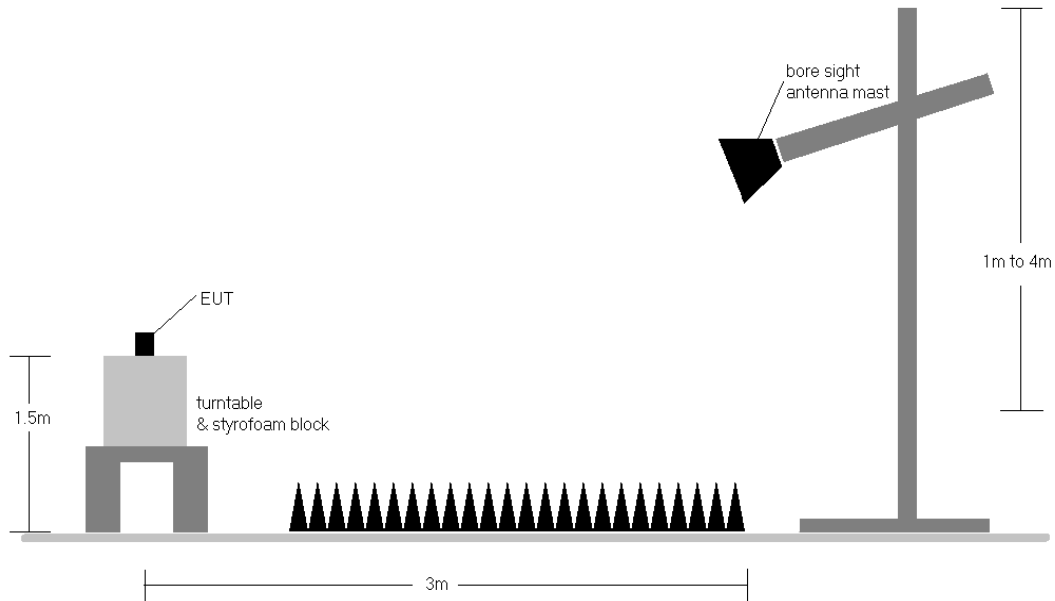


Figure 7-1. Test Setup

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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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	3	125	6.251	6.228	6.751	6.490	522.5	500	Pass

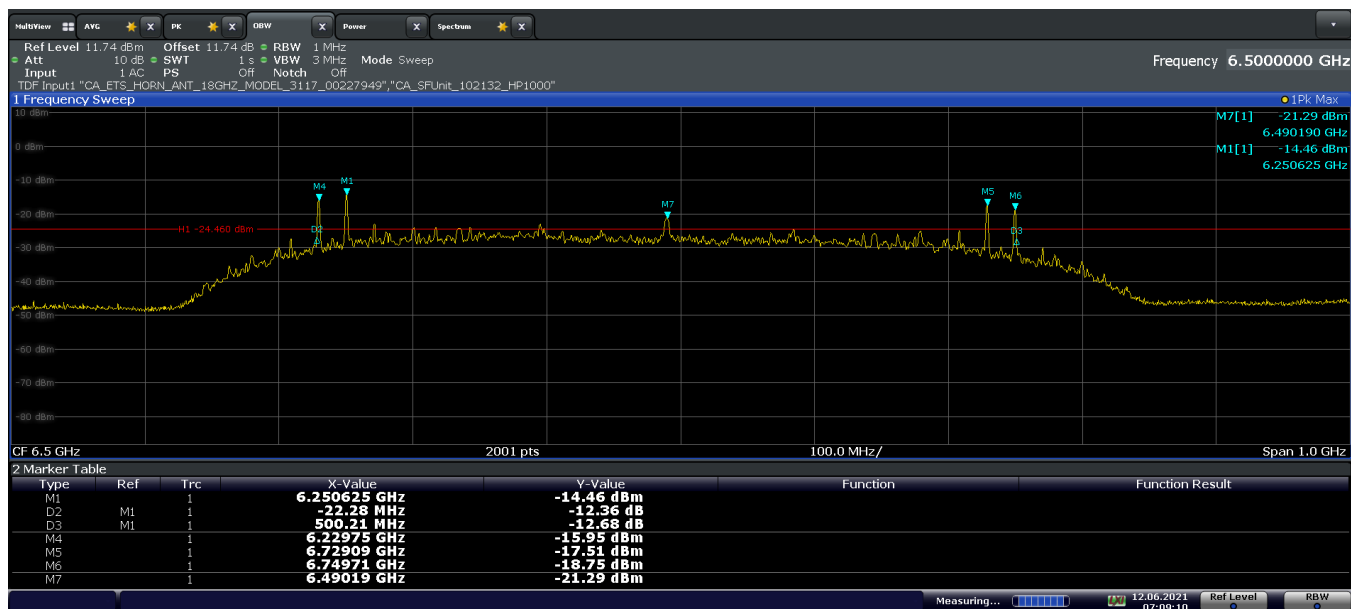
Table 7-2. 10dBc Bandwidth Measurements (UWB, Ch.5, 6.5GHz)

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
8.0	9	3	125	8.226	7.726	8.248	7.987	521.9	500	Pass

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

FCC ID: BCG-A2475 IC: 579C-A2475	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-13.BCG	Test Dates: 6/8/21 - 8/1/21	EUT Type: Watch	Page 15 of 60

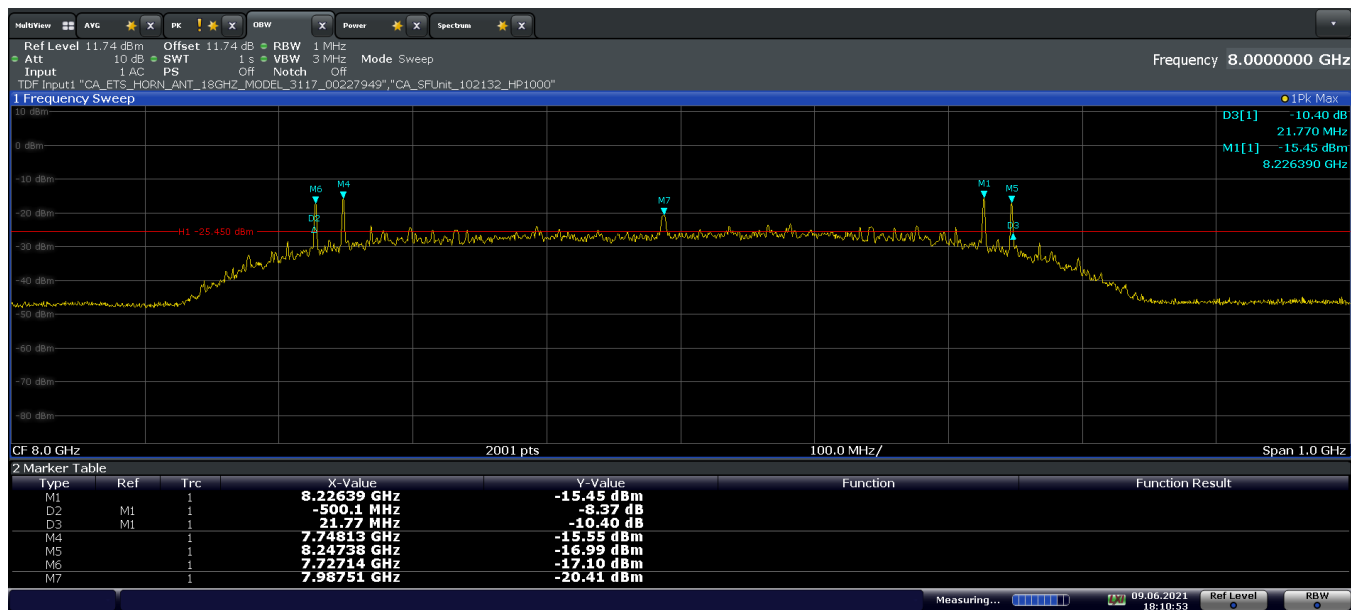
Channel 5, 10dBc BW:



07:09:11 12.06.2021

Plot 7-1. 10dBc Bandwidth (Ch. 5, Config 3/Payload 125)

Channel 9, 10dBc BW:



18:10:54 09.06.2021

Plot 7-2. 10dBc Bandwidth (Ch. 9, Config 3/Payload 125)

FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-13.BCG	Test Dates: 6/8/21 - 8/1/21	EUT Type: Watch	Page 16 of 60

7.3 Bandwidth Measurement

RSS-220 [2], RSS-Gen [6.7]

Test Overview

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 C63.10-2013 – Section 6.9

RSS-Gen [6.7]

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

Test Setup

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

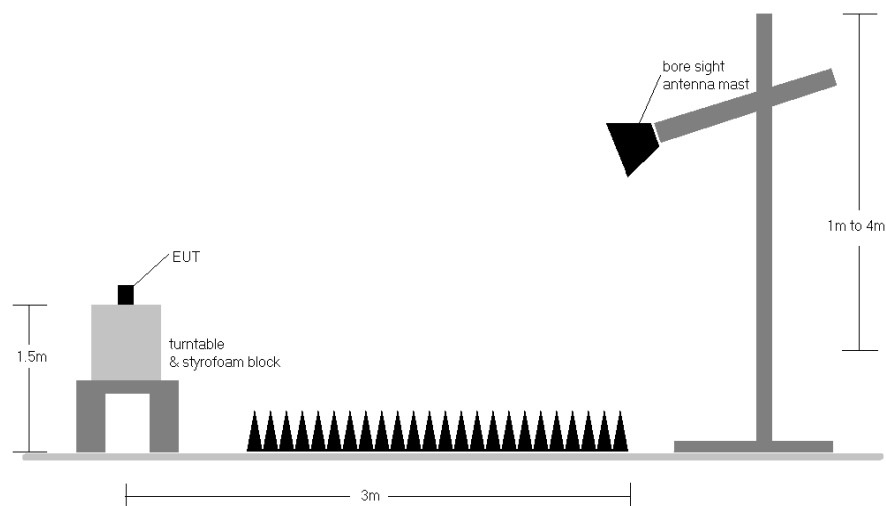


Figure 7-2. Test Setup

FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-13.BCG	Test Dates: 6/8/21 - 8/1/21	EUT Type: Watch	Page 17 of 60

Frequency [GHz]	Channel	Config	Payload	Measured OBW [MHz]	Measured 10dBc Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
6.5	5	3	125	621.66	528.0	500	Pass

Table 7-4. ISED 10dBc & 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
8.0	9	3	125	630.55	522.8	500	Pass

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

FCC ID: BCG-A2475 IC: 579C-A2475	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-13.BCG	Test Dates: 6/8/21 - 8/1/21	EUT Type: Watch	Page 18 of 60

Channel 5, OBW:



Channel 9, OBW:



FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-13.BCG	Test Dates: 6/8/21 - 8/1/21	EUT Type: Watch	Page 19 of 60

7.4 Maximum Peak and Average Radiated Power (EIRP)

§15.519 (c) §15.519 (e); RSS-220 [5.3.1(d)] RSS-220 [5.3.1(g)]

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 C63.10-2013 – Section 10.3.5 and 10.3.7
KDB 393764 D01 v02

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-A2475 IC: 579C-A2475	 PCTEST Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-13.BCG	Test Dates: 6/8/21 - 8/1/21	EUT Type: Watch	Page 20 of 60

Test Setup

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

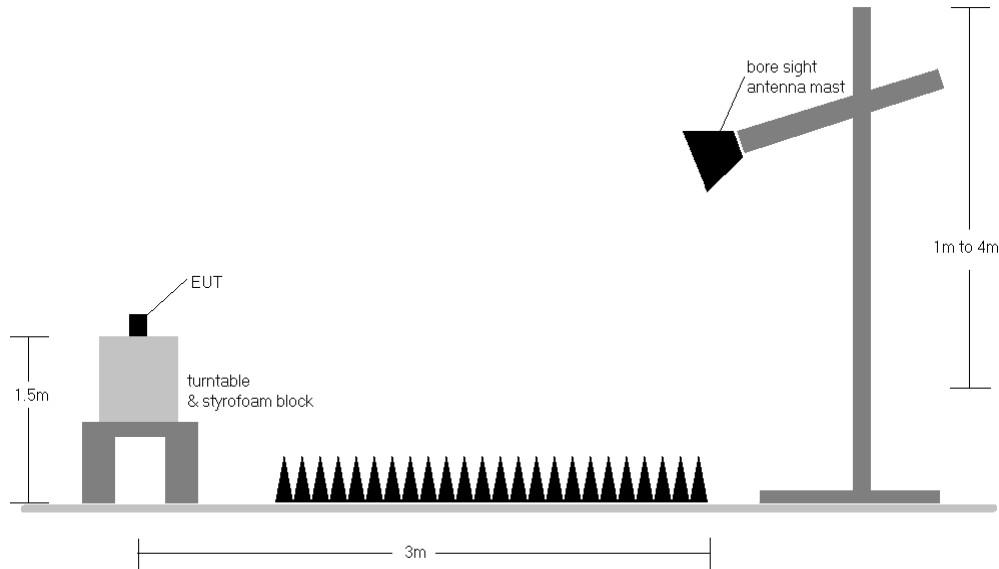


Figure 7-3. Test Setup

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-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-13.BCG	Test Dates: 6/8/21 - 8/1/21	EUT Type: Watch	Page 21 of 60

7.4.1 Peak Radiated Power Measurement

§15.519 (e); RSS-220 [5.3.1(g)]

Frequency [GHz]	Channel	Config	Payload	Ant. Pol. [H/V]	Ant. Height [cm]	Turntable Azimuth [degree]	F _M [GHz]	Peak EIRP [dBm/50MHz]	Peak EIRP Limit [dBm/50MHz]	Margin [dB]
6.5	5	3	125	H	102	125	6.4903	-7.91	0.00	-7.91

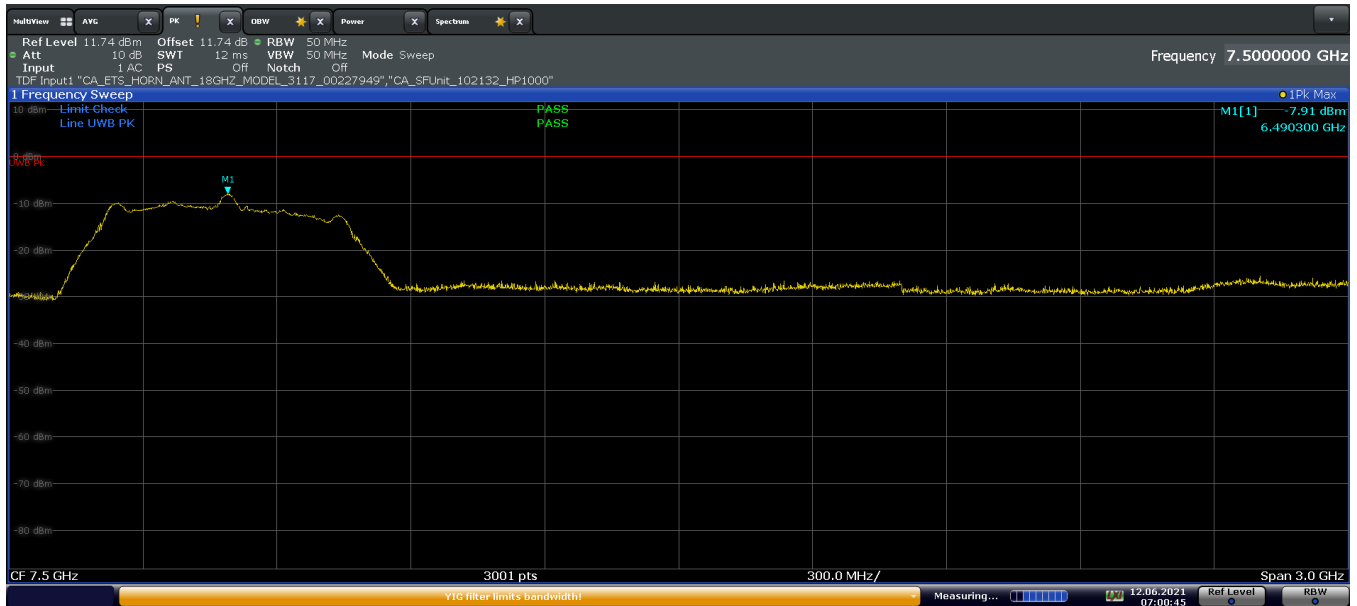
Table 7-8. Peak EIRP Measurements (UWB Ch. 5, 6.5GHz)

Frequency [GHz]	Channel	Config	Payload	Ant. Pol. [H/V]	Ant. Height [cm]	Turntable Azimuth [degree]	F _M [GHz]	Peak EIRP [dBm/50MHz]	Peak EIRP Limit [dBm/50MHz]	Margin [dB]
8.0	9	3	125	V	325	102	7.9998	-4.98	0.00	-4.98

Table 7-9. Peak EIRP Measurements (UWB Ch. 9, 8GHz)

FCC ID: BCG-A2475 IC: 579C-A2475	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-13.BCG	Test Dates: 6/8/21 - 8/1/21	EUT Type: Watch	Page 22 of 60

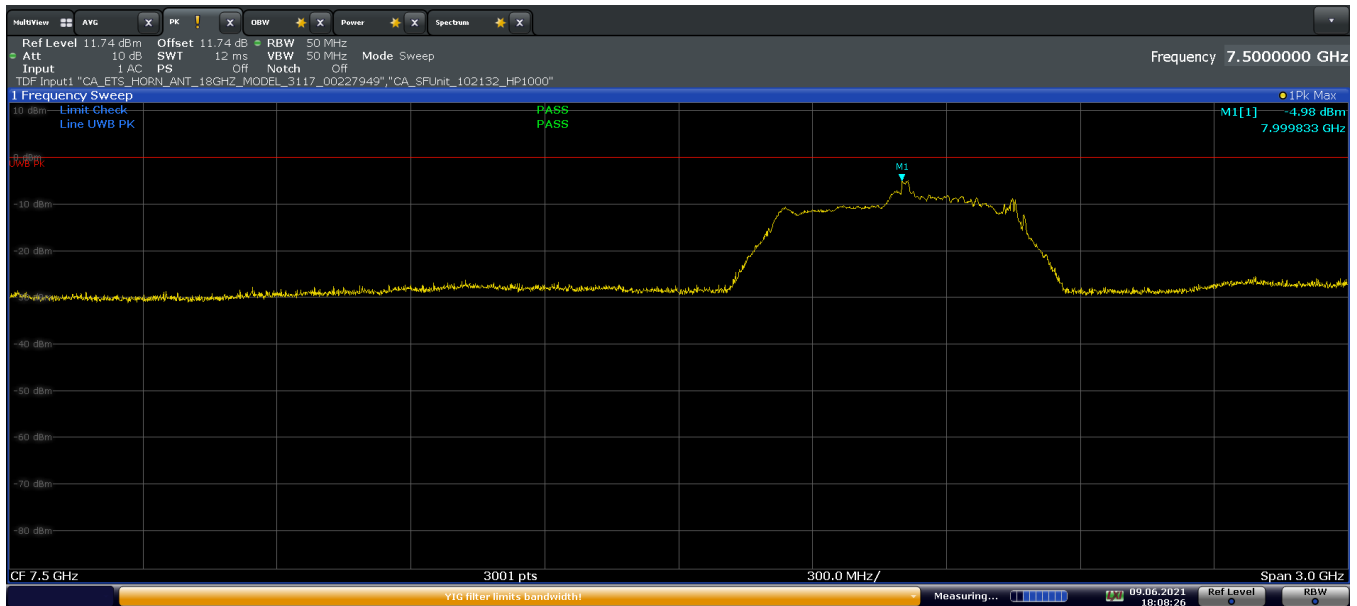
Channel 5 Peak Radiated Power:



07:00:46 12.06.2021

Plot 7-5. Peak Radiated Power (Ch. 5, Config 3/Payload 125)

Channel 9 Peak Radiated Power:



18:08:26 09.06.2021

Plot 7-6. Peak Radiated Power (Ch. 9, Config 3/Payload 125)

FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-13.BCG	Test Dates: 6/8/21 - 8/1/21	EUT Type: Watch	Page 23 of 60

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7.4.2 Average Radiated Power Measurement

§15.519 (c); RSS-220 [5.3.1(d)]

Frequency [GHz]	Channel	Config	Payload	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	F _M [GHz]	Average EIRP [dBm/MHz]	Average EIRP Limit [dBm/MHz]	Margin [dB]
6.5	5	3	125	H	102	125	6.3864	-42.60	-41.30	-1.30

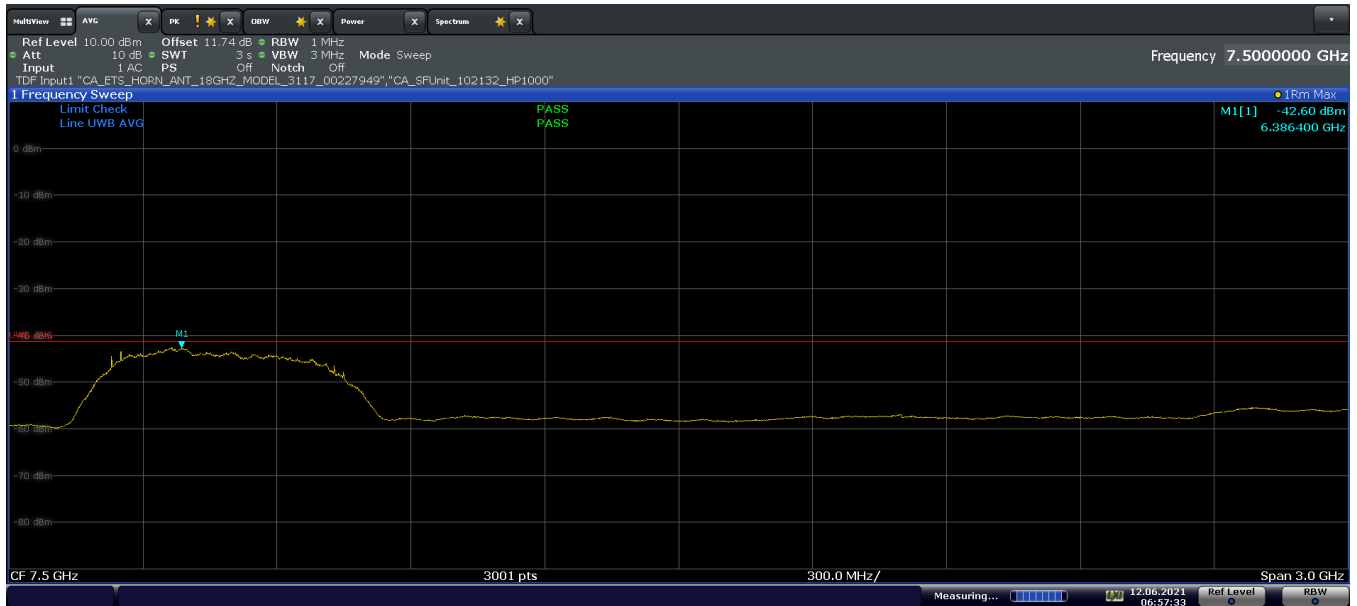
Table 7-10. Average EIRP Measurements (UWB Ch. 5, 6.5GHz)

Frequency [GHz]	Channel	Config	Payload	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	F _M [GHz]	Average EIRP [dBm/MHz]	Average EIRP Limit [dBm/MHz]	Margin [dB]
8.0	9	3	125	V	325	102	8.1108	-42.48	-41.30	-1.18

Table 7-11. Average EIRP Measurements (UWB Ch.9, 8GHz)

FCC ID: BCG-A2475 IC: 579C-A2475	 PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-13.BCG	Test Dates: 6/8/21 - 8/1/21	EUT Type: Watch	Page 24 of 60

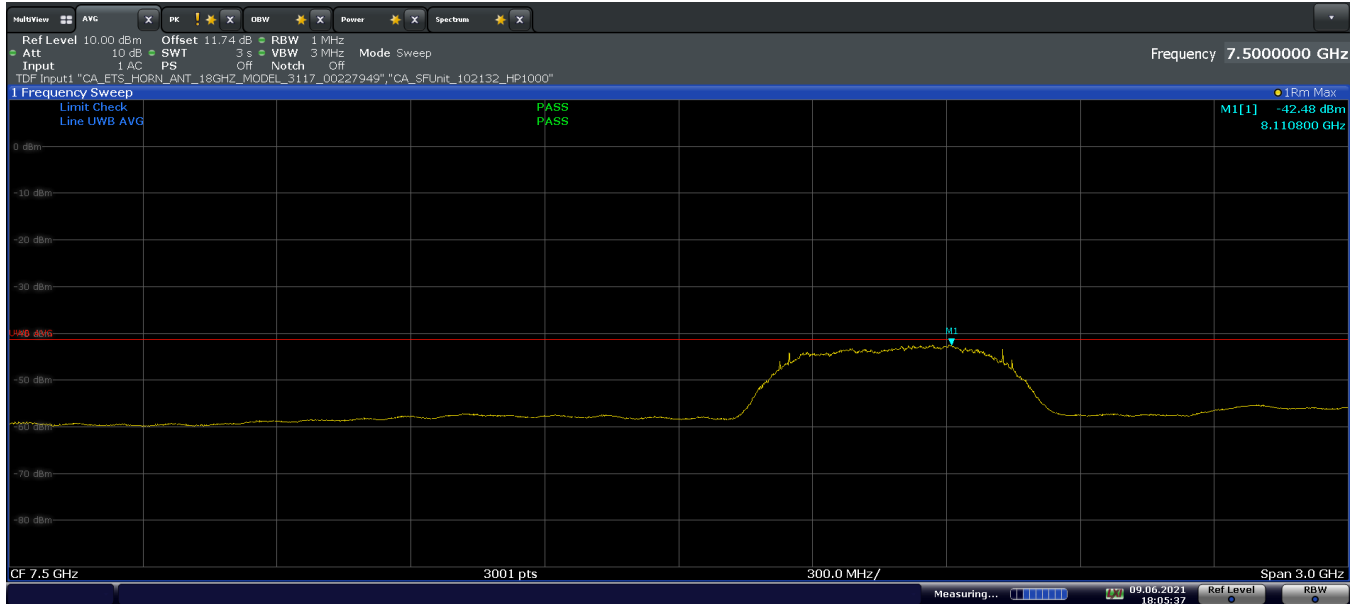
Channel 5 Average Radiated Power:



06:57:33 12.06.2021

Plot 7-7. Average Radiated Power (Ch. 5, Config 3/Payload 125)

Channel 9 Average Radiated Power:



18:05:37 09.06.2021

Plot 7-8. Average Radiated Power (Ch. 9, Config 3/Payload 125)

FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-13.BCG	Test Dates: 6/8/21 - 8/1/21	EUT Type: Watch	Page 25 of 60

7.5 Cease Transmission Time

§15.519 (a)(1); RSS-220 [5.3.1(b)]

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 v02

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.

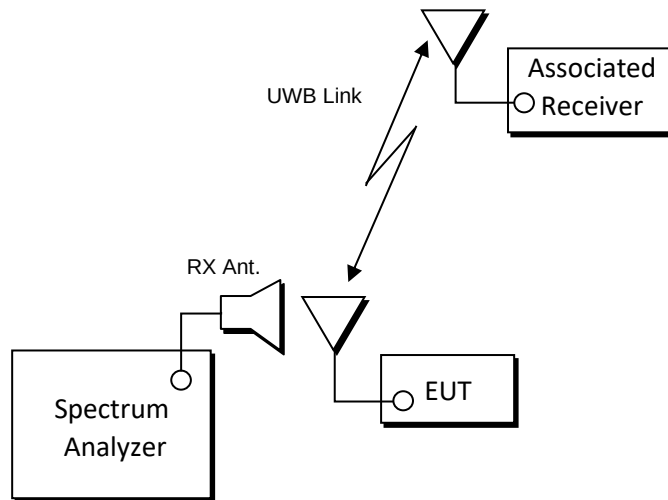


Figure 7-4. Test Setup

FCC ID: BCG-A2475 IC: 579C-A2475	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2106070043-13.BCG	Test Dates: 6/8/21 - 8/1/21	EUT Type: Watch	Page 26 of 60

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

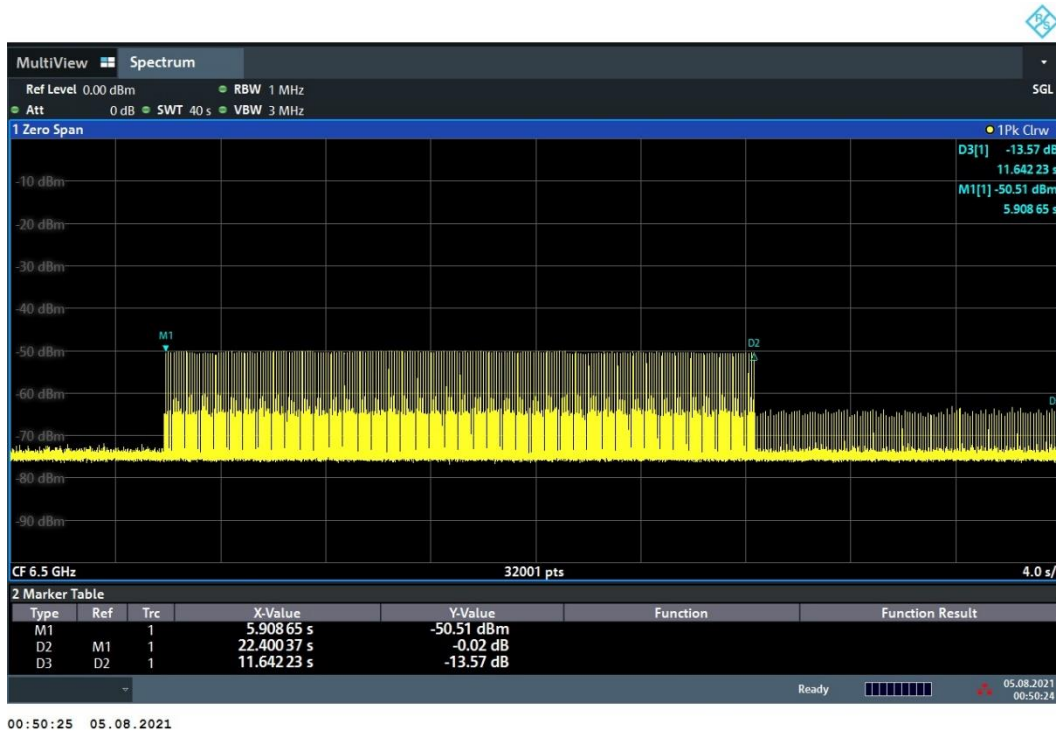
Result

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

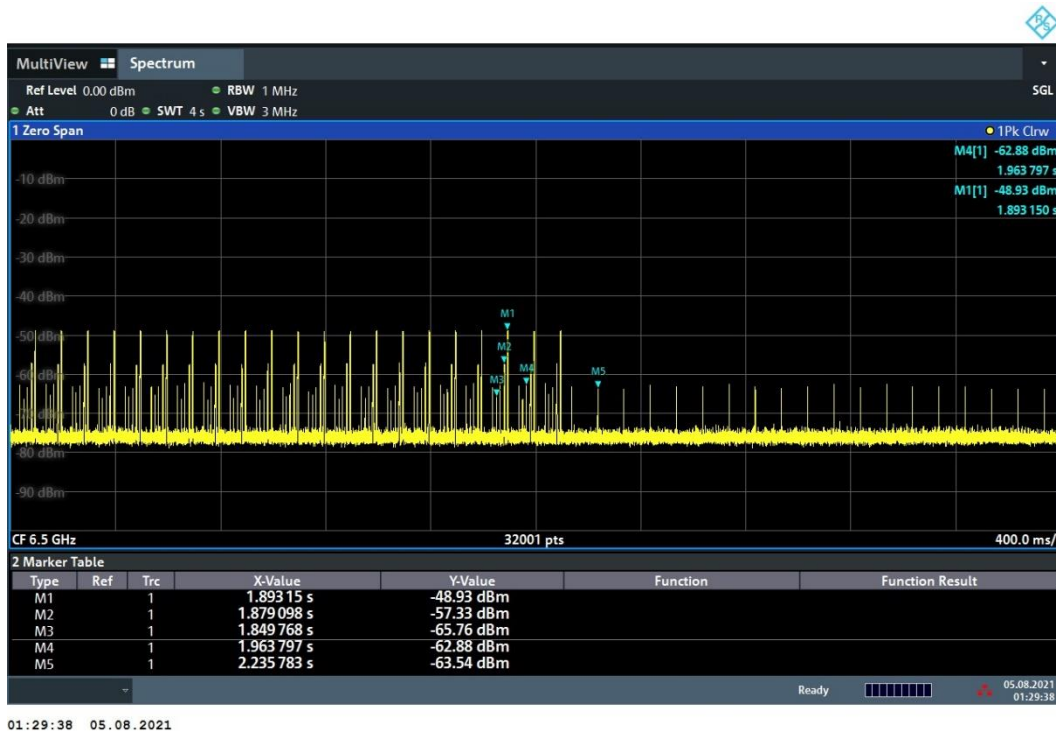
Plots Description

- Cessation Time - Mode1 (Mode2) plot:
 - Marker 1 shows start time of initiating UWB link
 - Marker 2 shows stop time of sending acknowledgement
- Zoom in Cessation Time - Mode1 plot:
 - Marker 1 shows EUT traffic level
 - Marker 2 shows Associated receiver (Phone) traffic level
 - Marker 3 shows Associated receiver (Phone) Acknowledgement signal
 - Marker 4 shows EUT Polling signal (Before ceasing transmission)
 - Marker 5 shows EUT Polling signal (After ceasing transmission)

FCC ID: BCG-A2475 IC: 579C-A2475	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-13.BCG	Test Dates: 6/8/21 - 8/1/21	EUT Type: Watch	Page 27 of 60

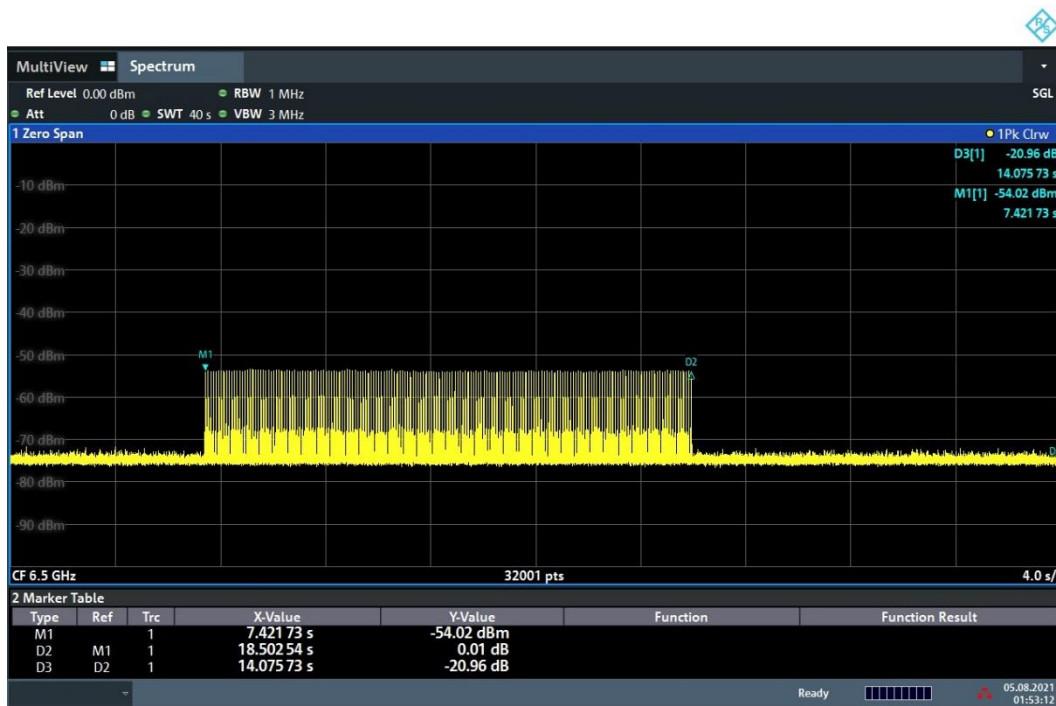


Plot 7-9. Cessation Time – Mode1 (Ch. 5, 6.5 GHz)



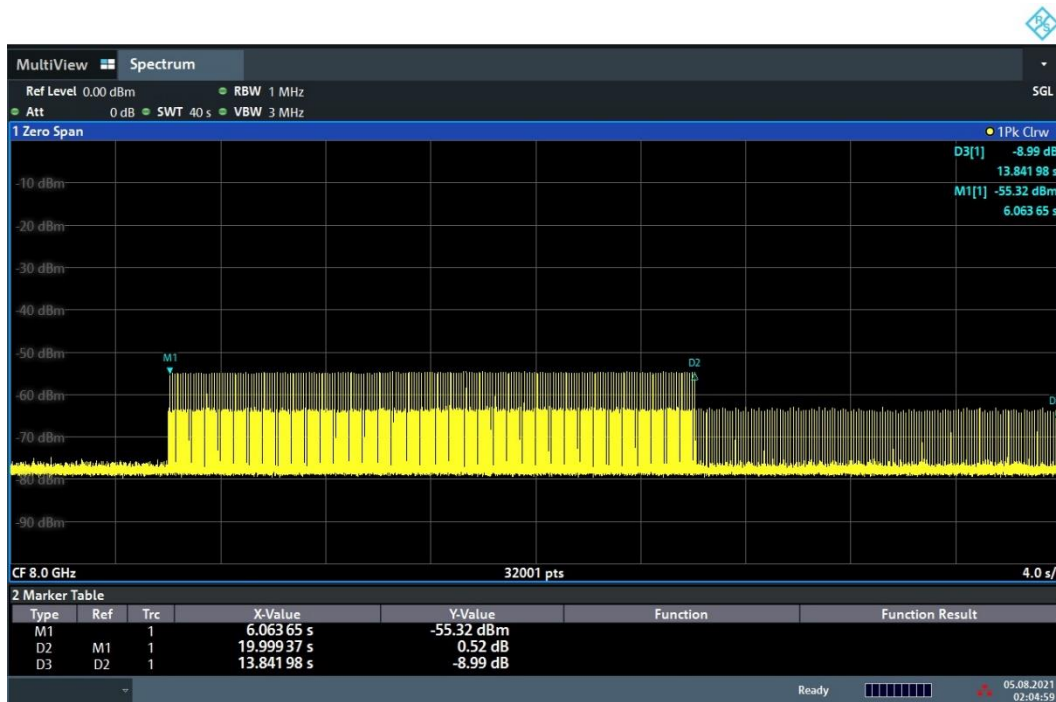
Plot 7-10. Zoom in Cessation Time – Mode1 (Ch. 5, 6.5 GHz)

FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-13.BCG	Test Dates: 6/8/21 - 8/1/21	EUT Type: Watch	Page 28 of 60	



01:53:13 05.08.2021

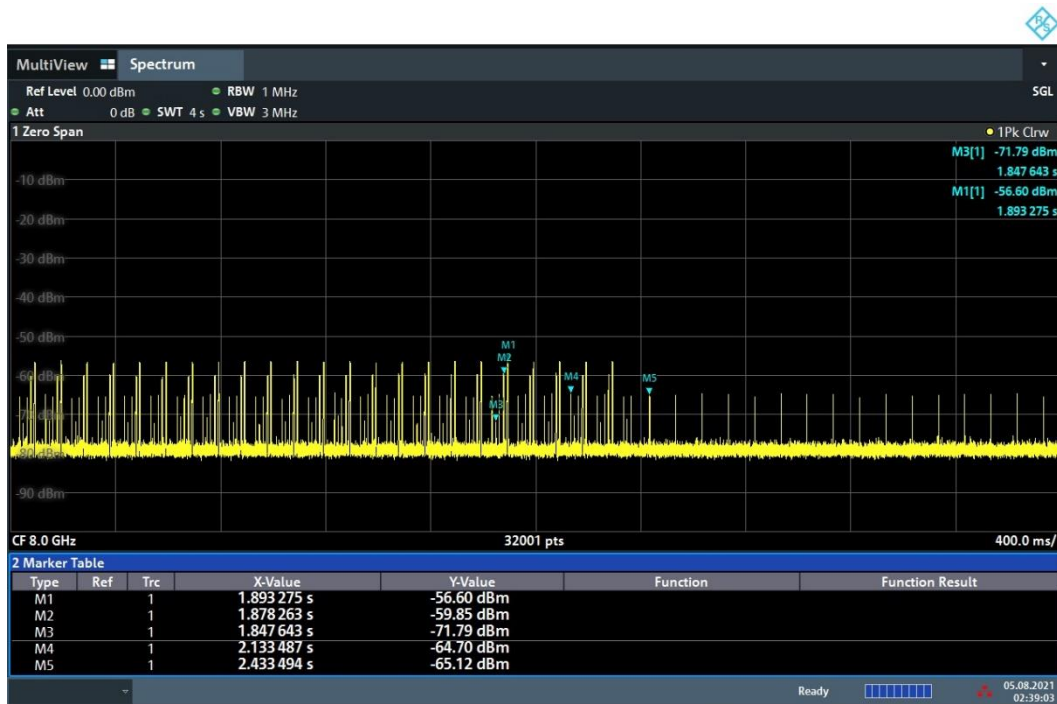
Plot 7-11. Cessation Time – Mode2 (Ch. 5, 6.5 GHz)



02:05:00 05.08.2021

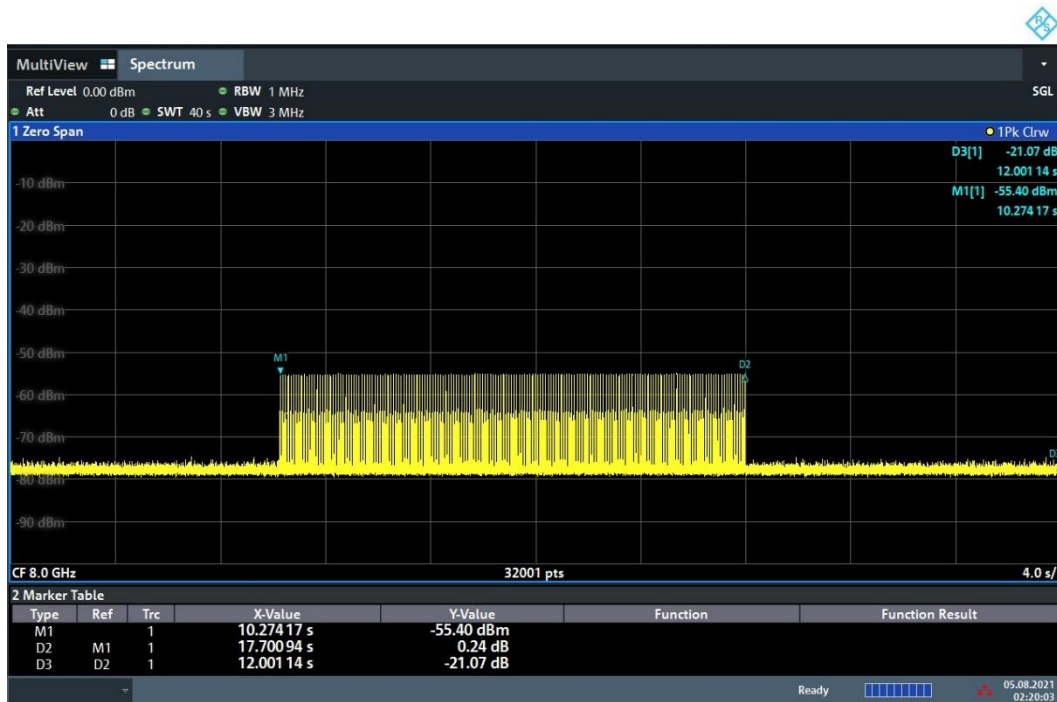
Plot 7-12. Cessation Time – Mode1 (Ch. 9, 8 GHz)

FCC ID: BCG-A2475 IC: 579C-A2475	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2106070043-13.BCG	Test Dates: 6/8/21 - 8/1/21	EUT Type: Watch	Page 29 of 60



02:39:04 05.08.2021

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



02:20:04 05.08.2021

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

FCC ID: BCG-A2475 IC: 579C-A2475	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2106070043-13.BCG	Test Dates: 6/8/21 - 8/1/21	EUT Type: Watch	Page 30 of 60

7.6 Radiated Spurious Emissions – Above 960MHz

§15.519 (c) §15.519 (d); RSS-220 [5.3.1(d)] RSS-220 [5.3.1(e)]

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 C63.10-2013 – Section 10.3
KDB 393764 D01 v02

FCC ID: BCG-A2475 IC: 579C-A2475		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-13.BCG	Test Dates: 6/8/21 - 8/1/21	EUT Type: Watch	Page 31 of 60

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.

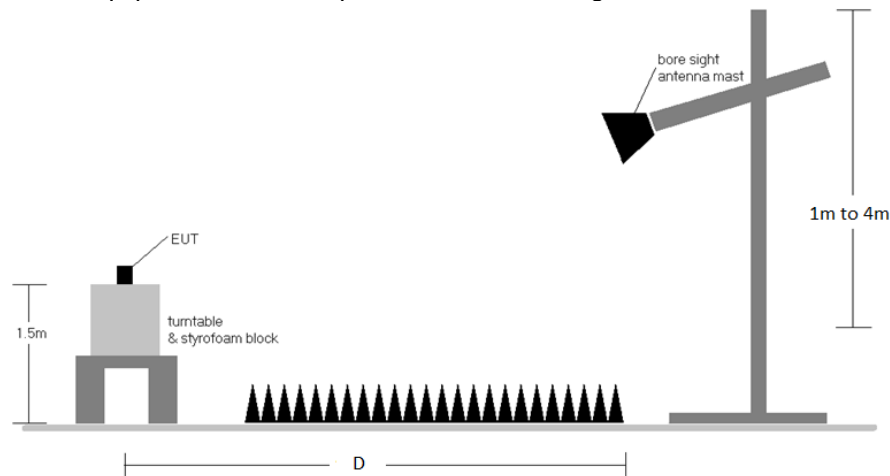


Figure 7-5. Radiated Test Setup - Above 960MHz

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-A2475 IC: 579C-A2475	 PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-13.BCG	Test Dates: 6/8/21 - 8/1/21	EUT Type: Watch	Page 32 of 60

Sample Calculations

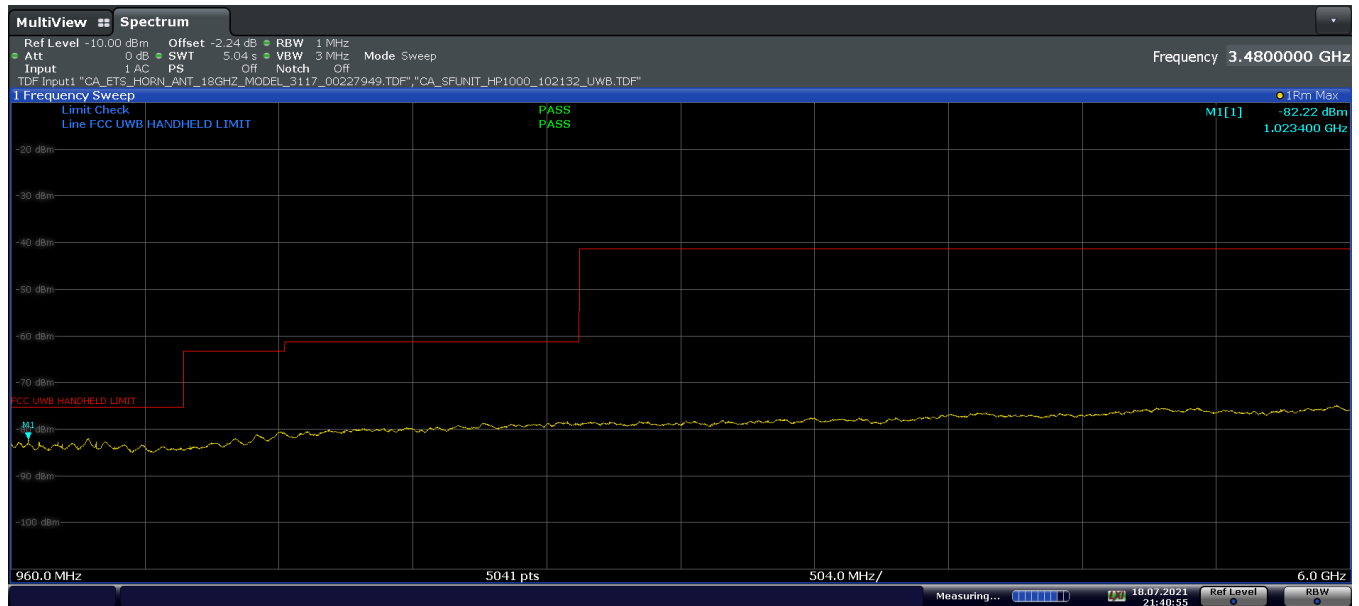
Determining Spurious Emissions Levels

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

FCC ID: BCG-A2475 IC: 579C-A2475	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2106070043-13.BCG	Test Dates: 6/8/21 - 8/1/21	EUT Type: Watch	Page 33 of 60

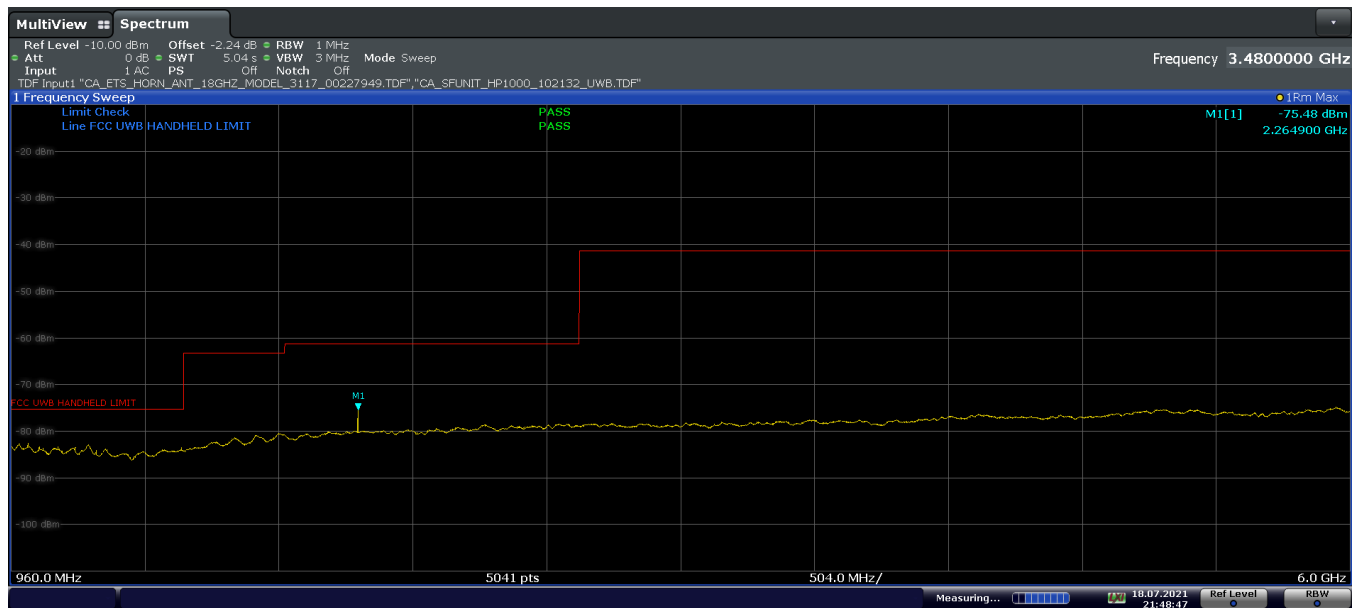
7.6.1 Radiated Spurious Emissions (960MHz – 18GHz)

\$15.519 (c); RSS-220 [5.3.1(d)]



21:40:55 18.07.2021

Plot 7-15. FCC Radiated Spurious Emission 960-6000MHz (Ch. 5, Config 3, Payload 125 Ant. Pol. H)



21:48:47 18.07.2021

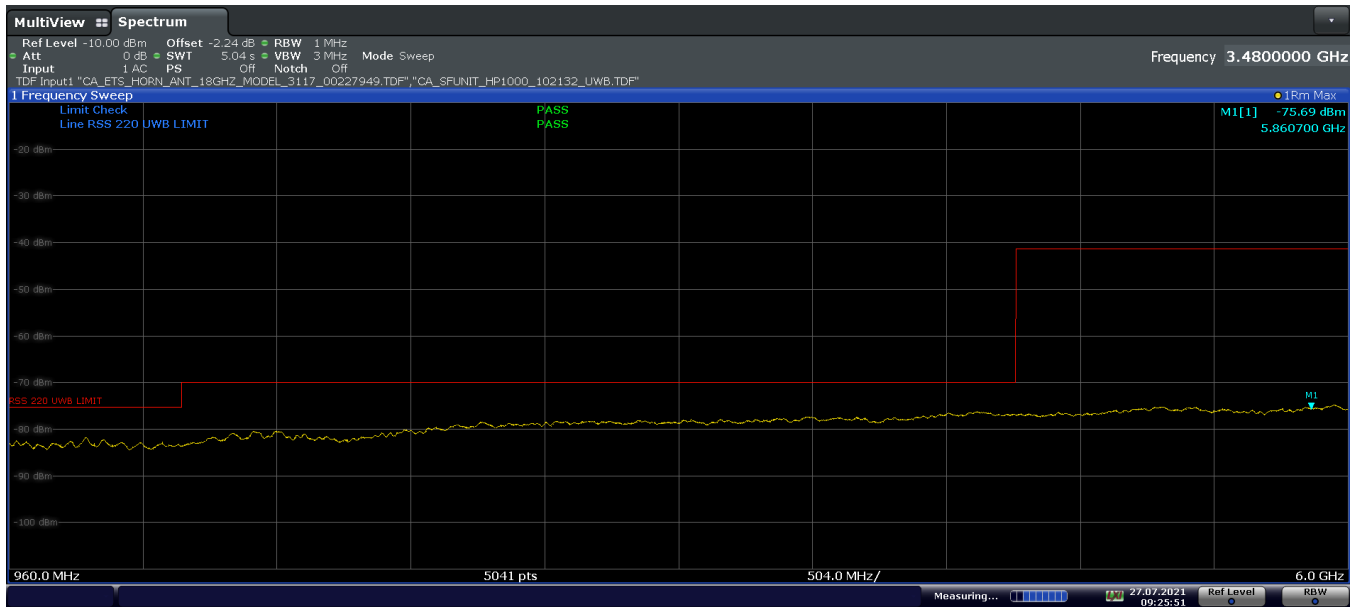
Plot 7-16. FCC Radiated Spurious Emissions 960-6000MHz (Ch. 5, Config 3, Payload 125 Ant. Pol. V)

FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-13.BCG	Test Dates: 6/8/21 - 8/1/21	EUT Type: Watch	Page 34 of 60

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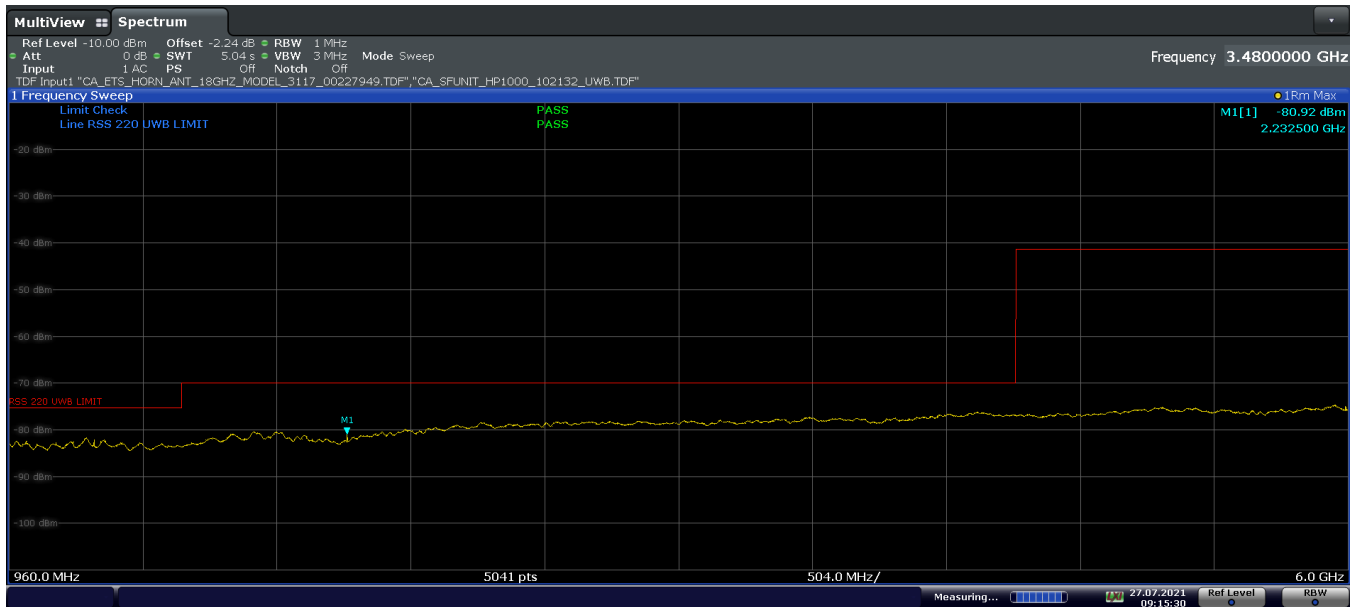
V 10.1 02/01/2020

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09:25:52 27.07.2021

Plot 7-17. ISCED Radiated Spurious Emission 960-6000MHz (Ch. 5, Config 3, Payload 125 Ant. Pol. H)



09:15:31 27.07.2021

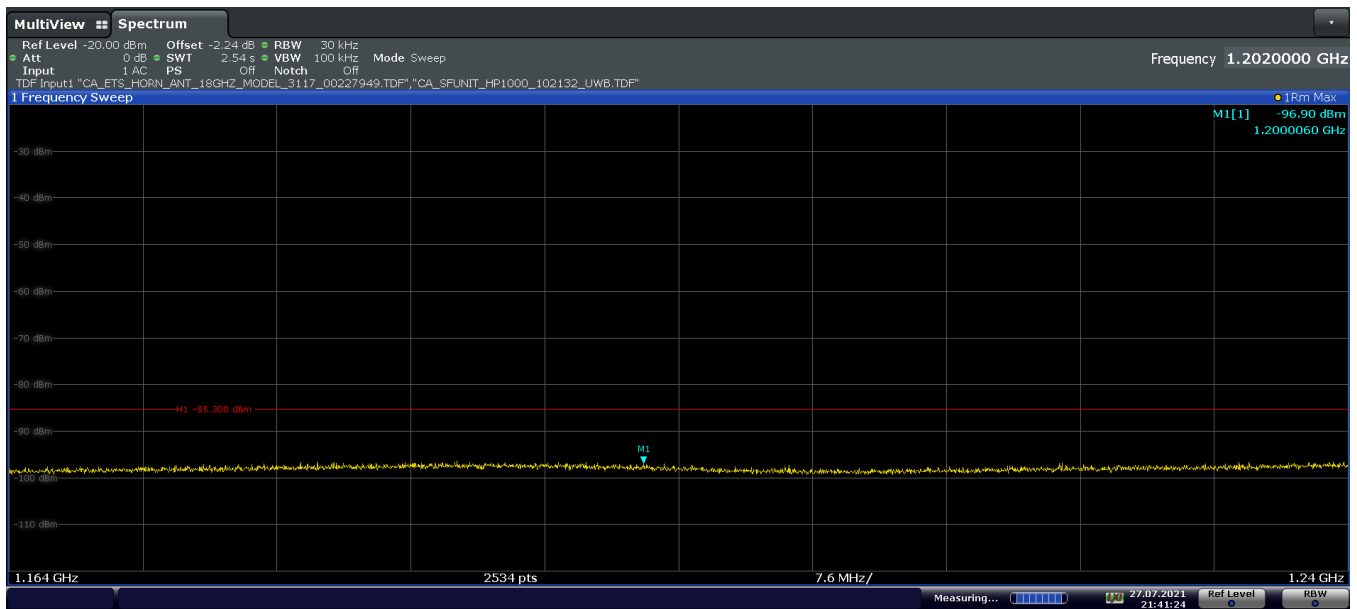
Plot 7-18. ISCED Radiated Spurious Emission 960-6000MHz (Ch. 5, Config 3, Payload 125 Ant. Pol. V)

FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-13.BCG	Test Dates: 6/8/21 - 8/1/21	EUT Type: Watch	Page 35 of 60

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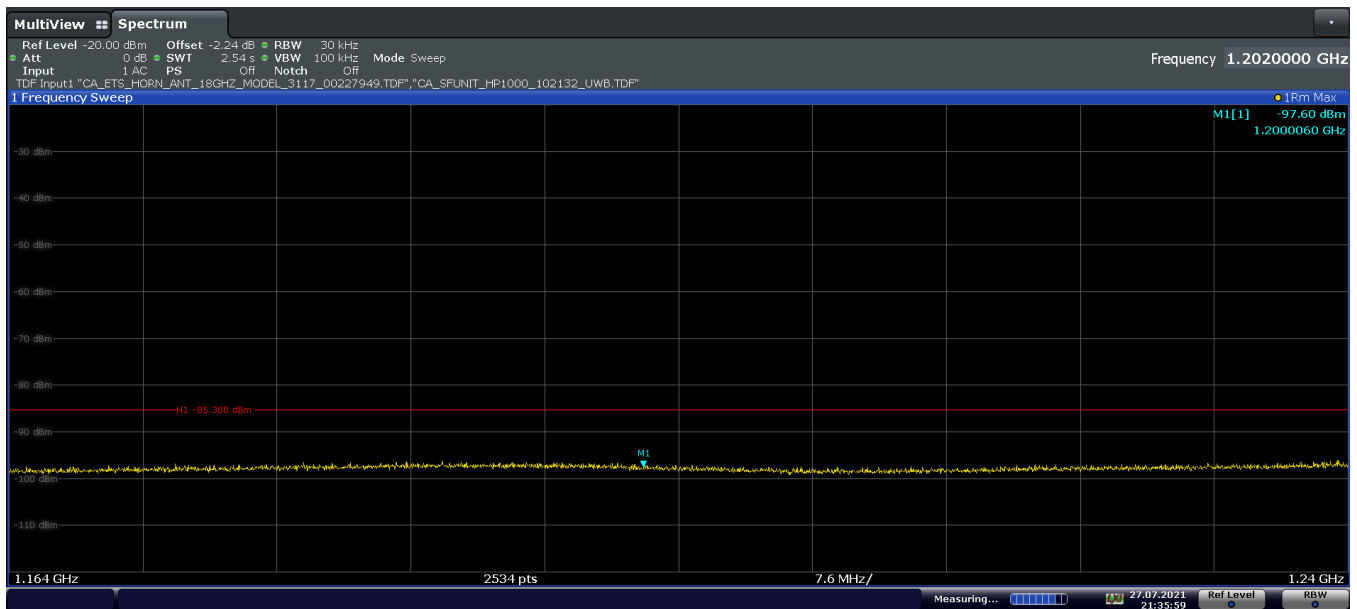
V 10.1 02/01/2020

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21:41:25 27.07.2021

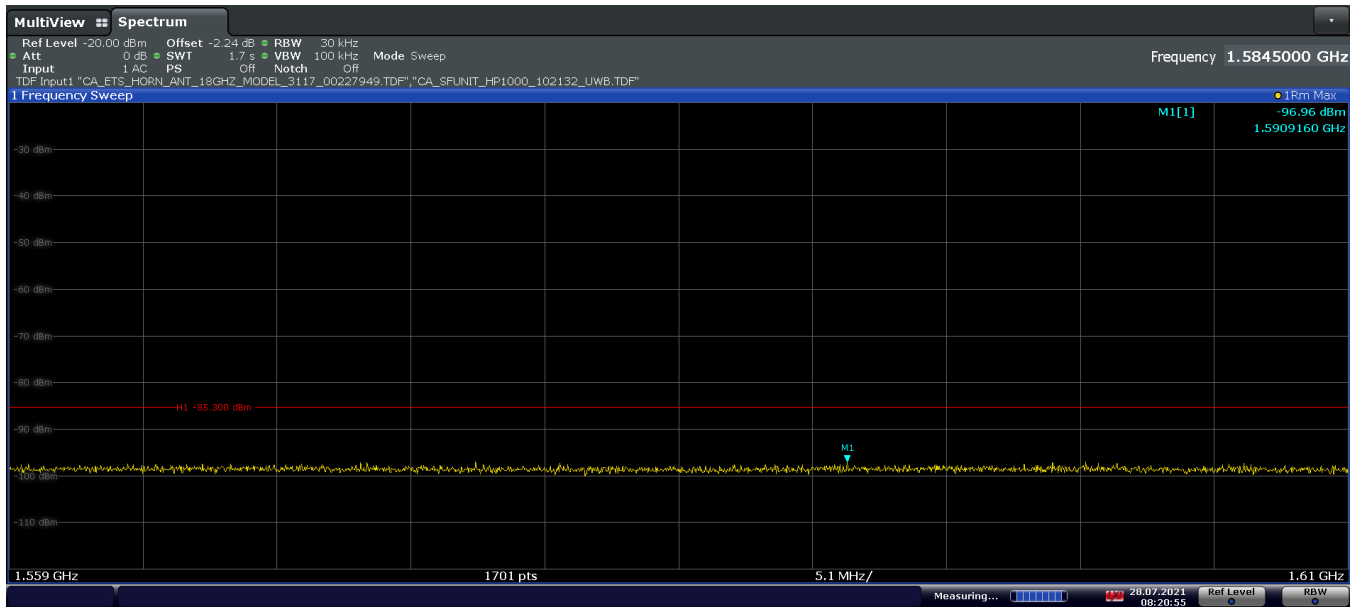
Plot 7-19. Radiated Spurious Emission 1164-1240MHz (Ch. 5, Config 3, Payload 125 Ant. Pol. H)



21:35:59 27.07.2021

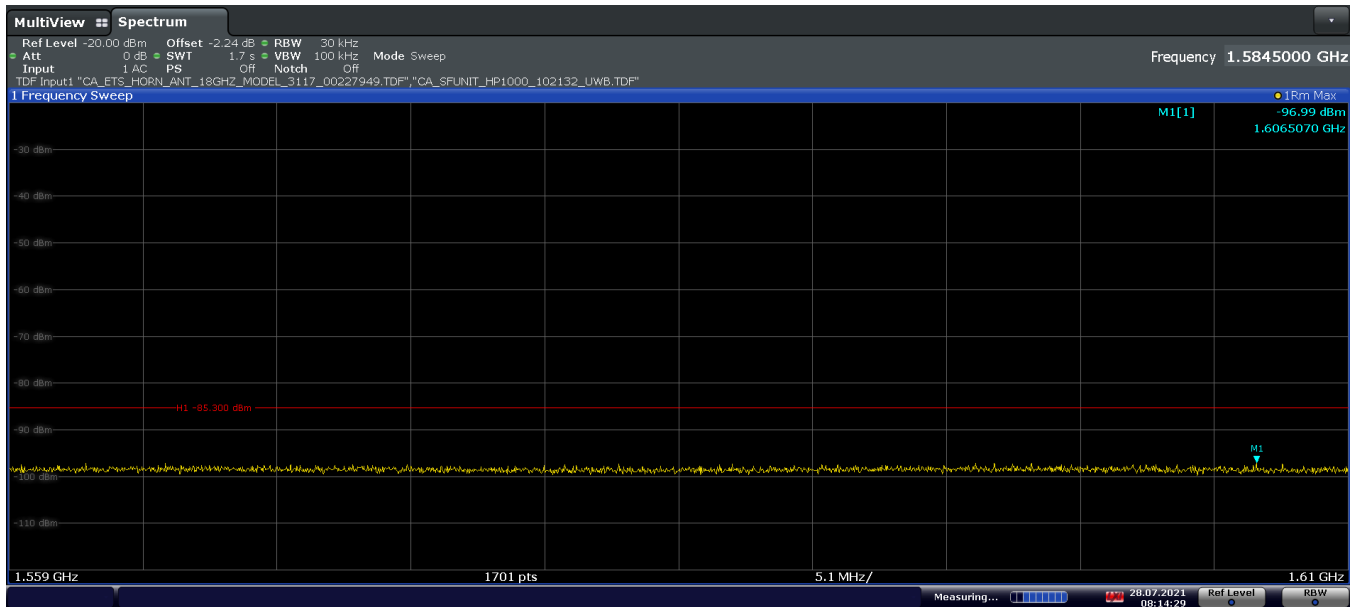
Plot 7-20. Radiated Spurious Emission 1164-1240MHz (Ch. 5, Config 3, Payload 125 Ant. Pol. V)

FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-13.BCG	Test Dates: 6/8/21 - 8/1/21	EUT Type: Watch	Page 36 of 60



08:20:56 28.07.2021

Plot 7-21. Radiated Spurious Emission 1559-1610MHz (Ch. 5, Config 3, Payload 125 Ant. Pol. H)



08:14:30 28.07.2021

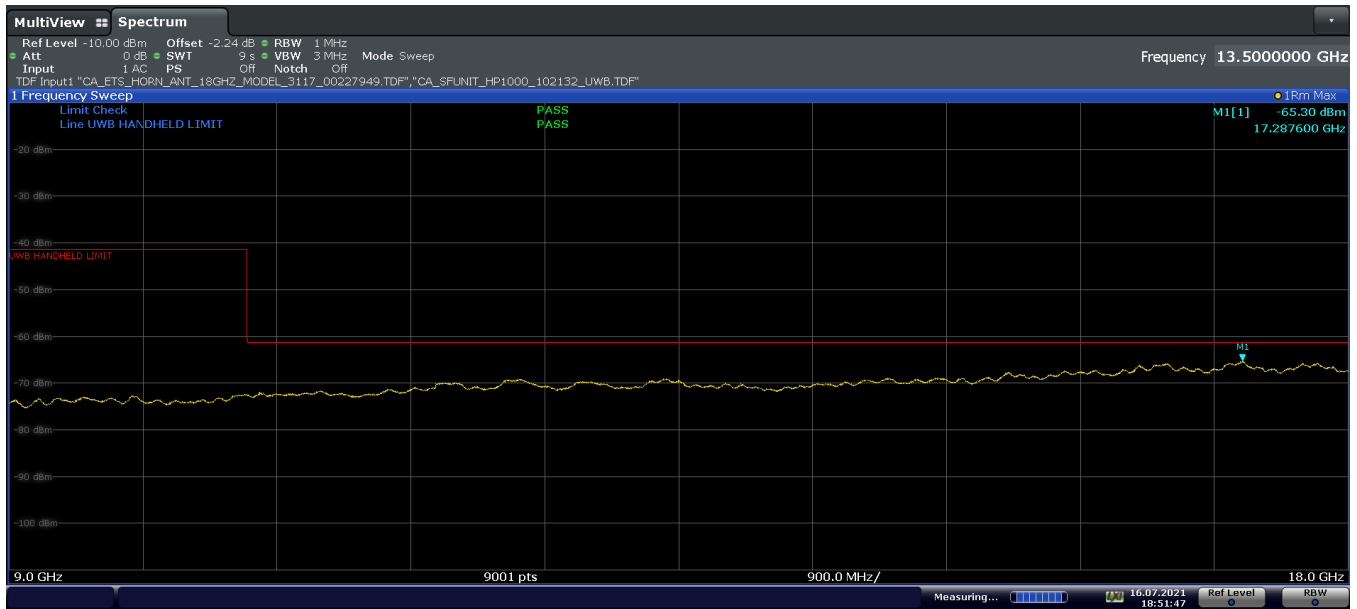
Plot 7-22. Radiated Spurious Emission 1559-1610MHz (Ch. 5, Config 3, Payload 125 Ant. Pol. V)

FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-13.BCG	Test Dates: 6/8/21 - 8/1/21	EUT Type: Watch	Page 37 of 60

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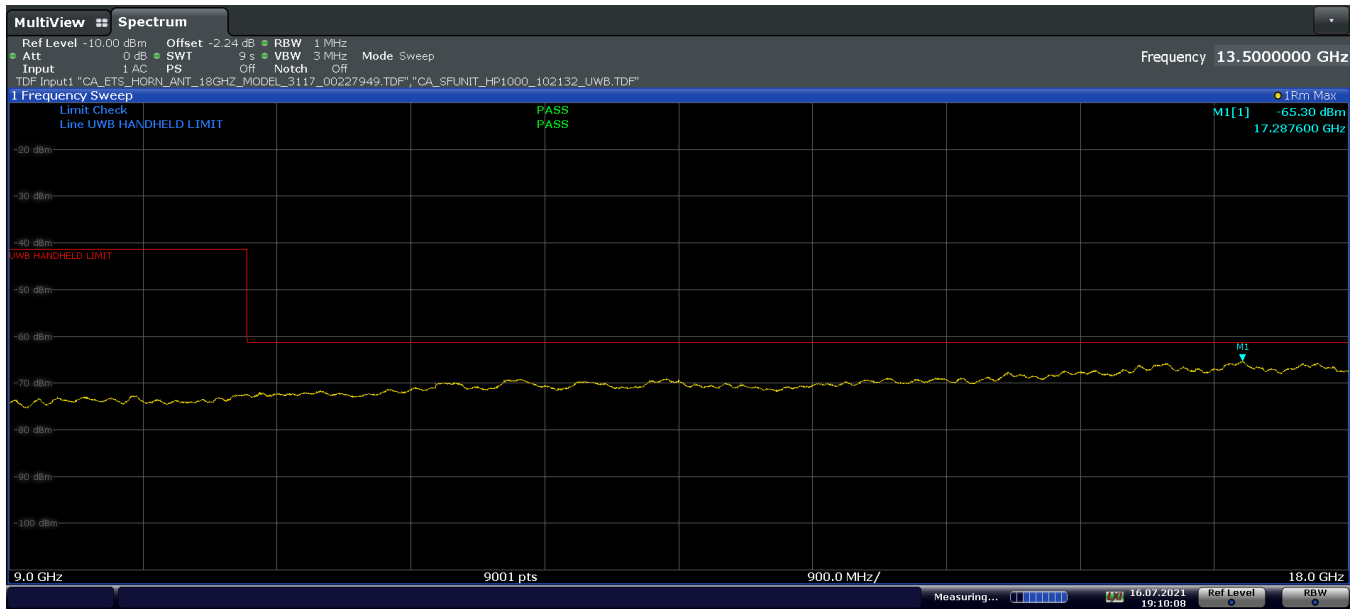
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18:51:48 16.07.2021

Plot 7-23. Radiated Spurious Emission 9-18GHz (Ch. 5, Config 3, Payload 125 Ant. Pol. H)



19:10:08 16.07.2021

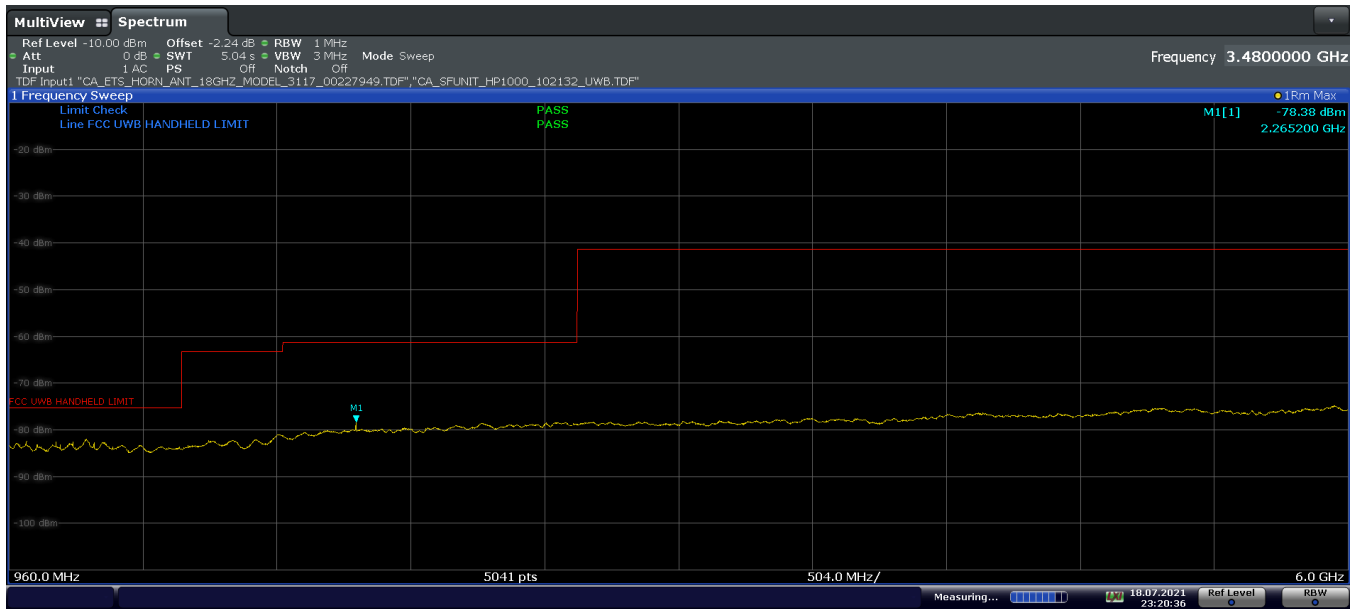
Plot 7-24. Radiated Spurious Emission 9-18GHz (Ch. 5, Config 3, Payload 125 Ant. Pol. V)

FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-13.BCG	Test Dates: 6/8/21 - 8/1/21	EUT Type: Watch	Page 38 of 60

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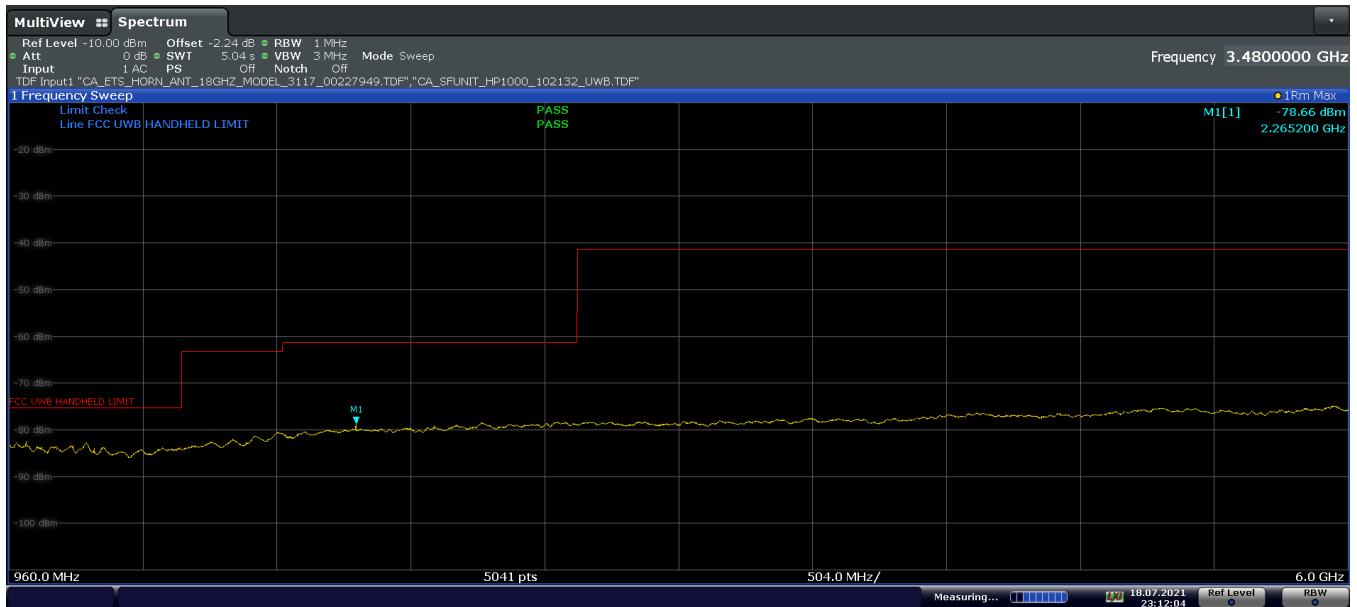
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23:20:37 18.07.2021

Plot 7-25. FCC Radiated Spurious Emission 960-6000MHz (Ch. 9, Config 3, Payload 125 Ant. Pol. H)



23:12:05 18.07.2021

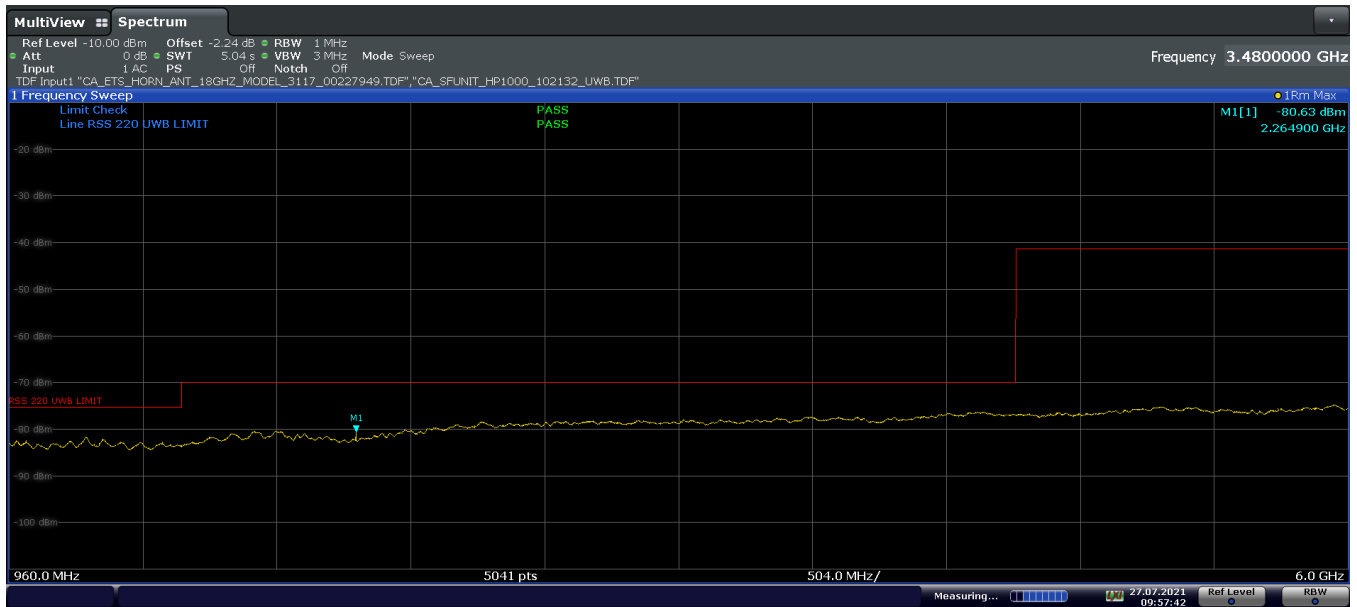
Plot 7-26. FCC Radiated Spurious Emission 960-6000MHz (Ch.9, Config 3, Payload 125 Ant. Pol. V)

FCC ID: BCG-A2475 IC: 579C-A2475		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2106070043-13.BCG	Test Dates: 6/8/21 - 8/1/21	EUT Type: Watch		Page 39 of 60

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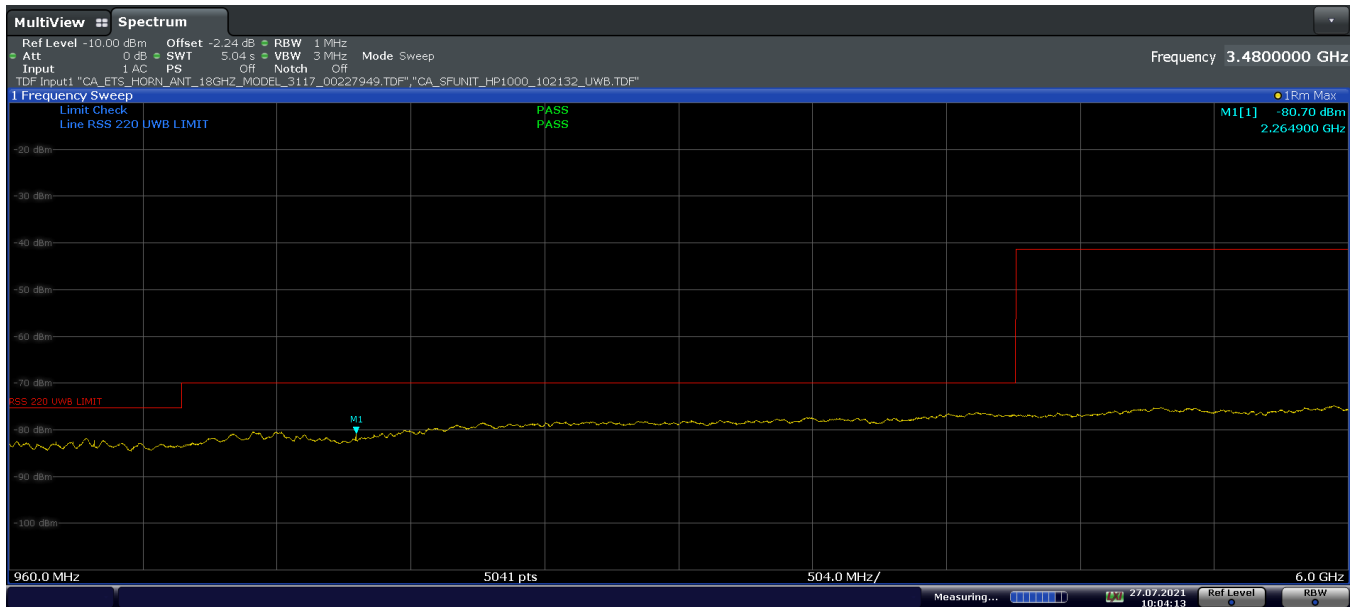
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09:57:43 27.07.2021

Plot 7-27. ISD Radiated Spurious Emission 960-6000MHz (Ch. 9, Config 3, Payload 125 Ant. Pol. H)



10:04:14 27.07.2021

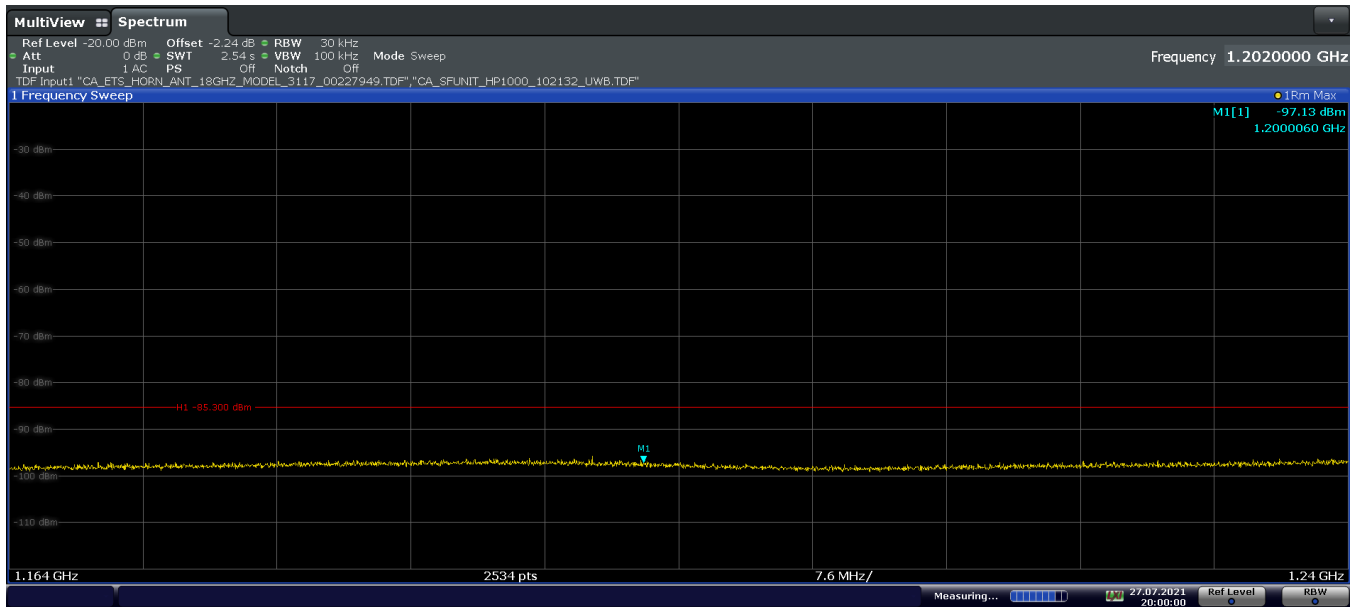
Plot 7-28. ISD Radiated Spurious Emission 960-6000MHz (Ch.9, Config 3, Payload 125 Ant. Pol. V)

FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-13.BCG	Test Dates: 6/8/21 - 8/1/21	EUT Type: Watch	Page 40 of 60

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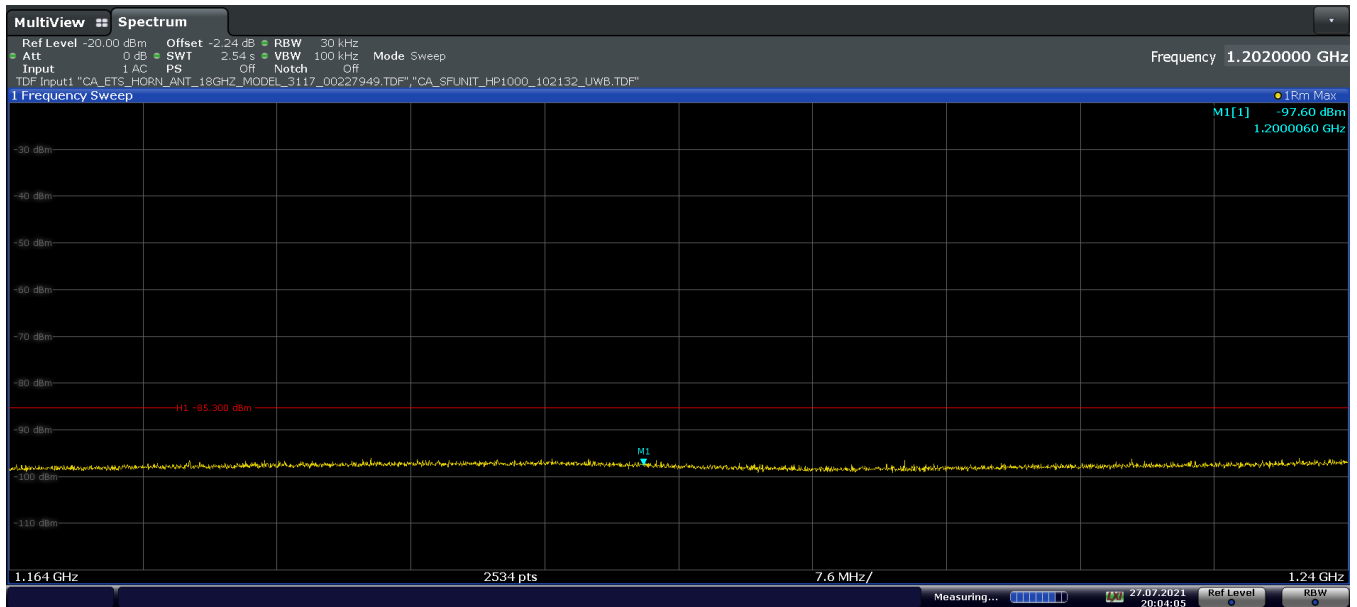
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20:00:01 27.07.2021

Plot 7-29. Radiated Spurious Emission 1164-1240MHz (Ch. 9, Config 3, Payload 125 Ant. Pol. H)



20:04:05 27.07.2021

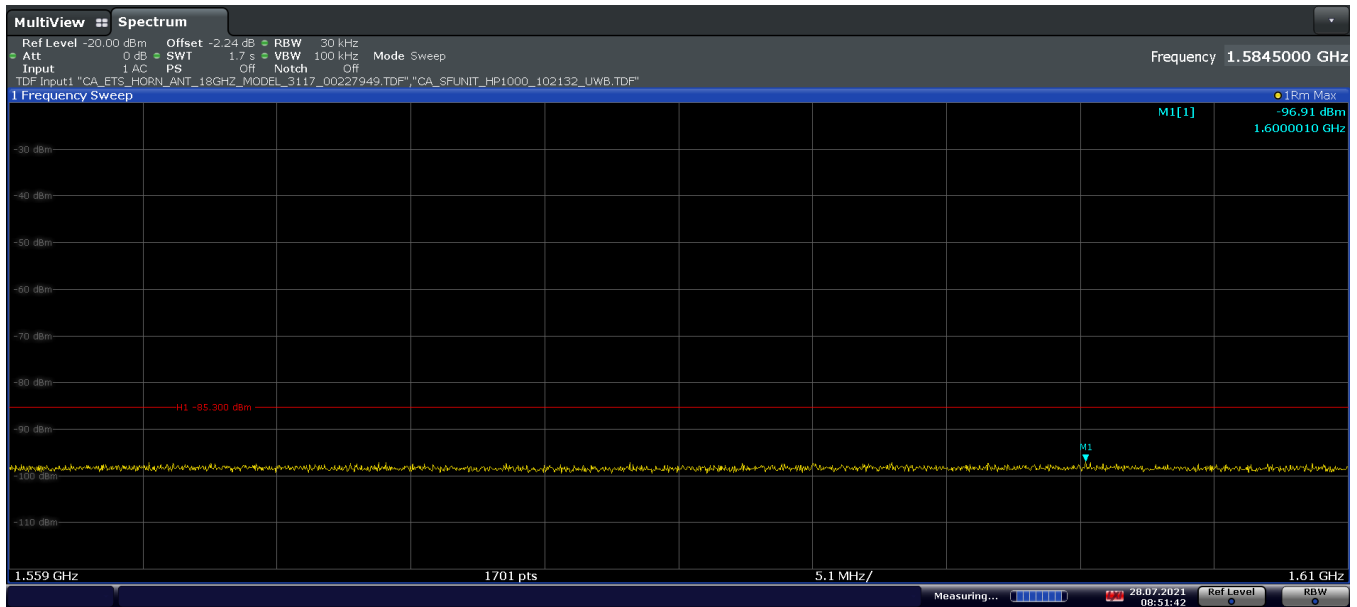
Plot 7-30. Radiated Spurious Emission 1164-1240MHz (Ch. 9, Config 3, Payload 125 Ant. Pol. V)

FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-13.BCG	Test Dates: 6/8/21 - 8/1/21	EUT Type: Watch	Page 41 of 60

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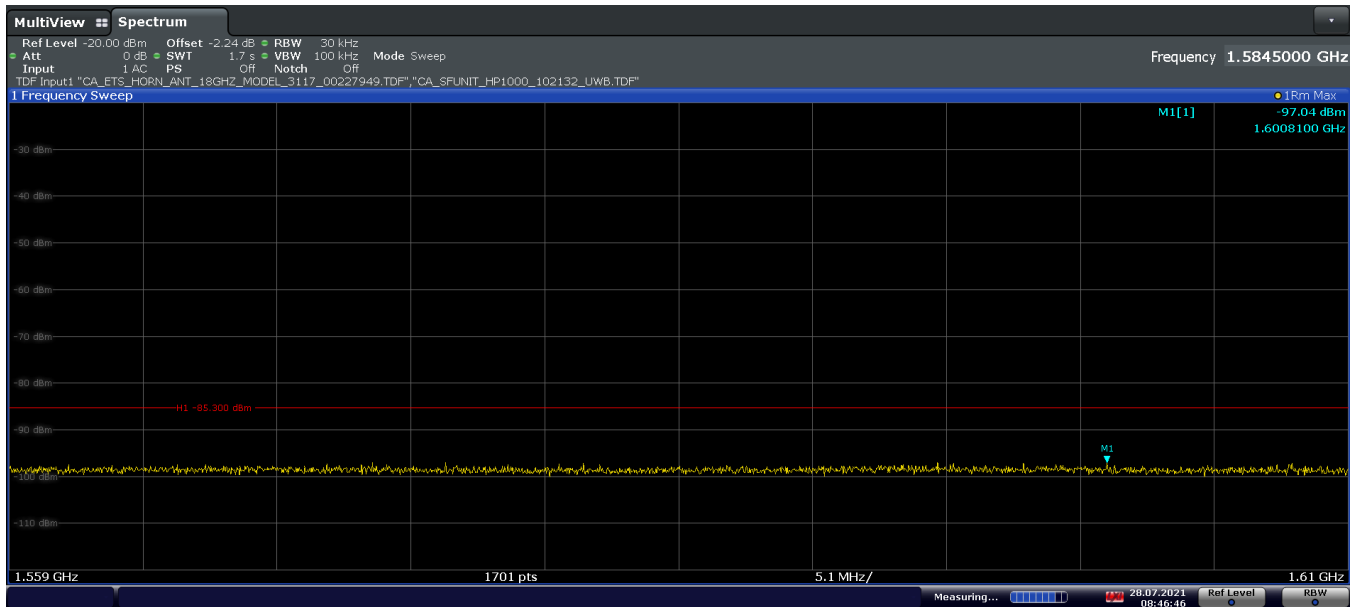
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08:51:43 28.07.2021

Plot 7-31. Radiated Spurious Emission 1559-1610MHz (Ch. 9, Config 3, Payload 125 Ant. Pol. H)



08:46:46 28.07.2021

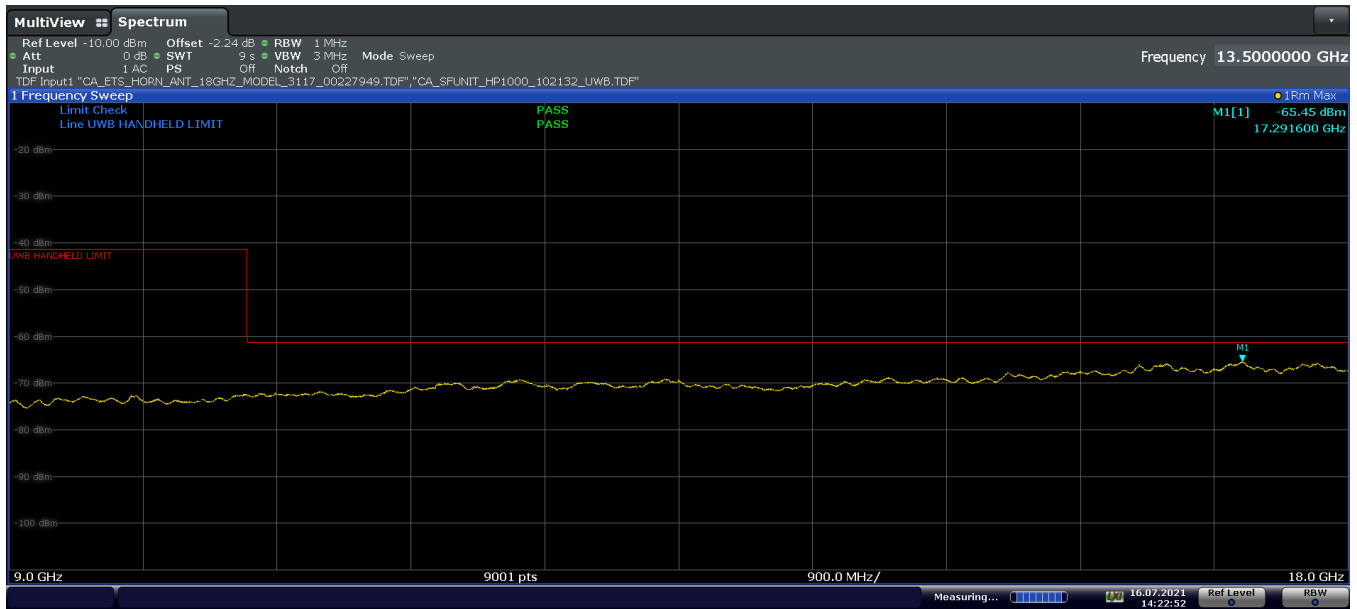
Plot 7-32. Radiated Spurious Emission 1559-1610MHz (Ch. 9, Config 3, Payload 125 Ant. Pol. V)

FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-13.BCG	Test Dates: 6/8/21 - 8/1/21	EUT Type: Watch	Page 42 of 60

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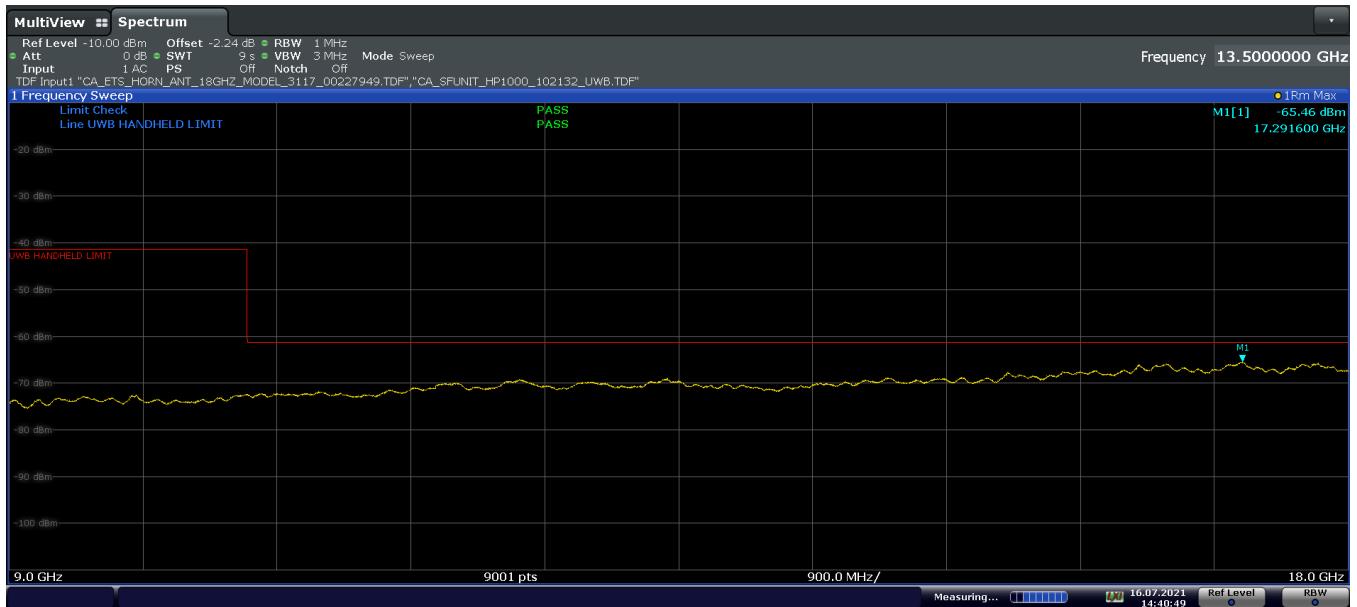
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14:22:53 16.07.2021

Plot 7-33. Radiated Spurious Emission 9-18GHz (Ch. 9, Config 3, Payload 125 Ant. Pol. H)



14:40:50 16.07.2021

Plot 7-34. Radiated Spurious Emission 9-18GHz (Ch. 9, Config 3, Payload 125 Ant. Pol. V)

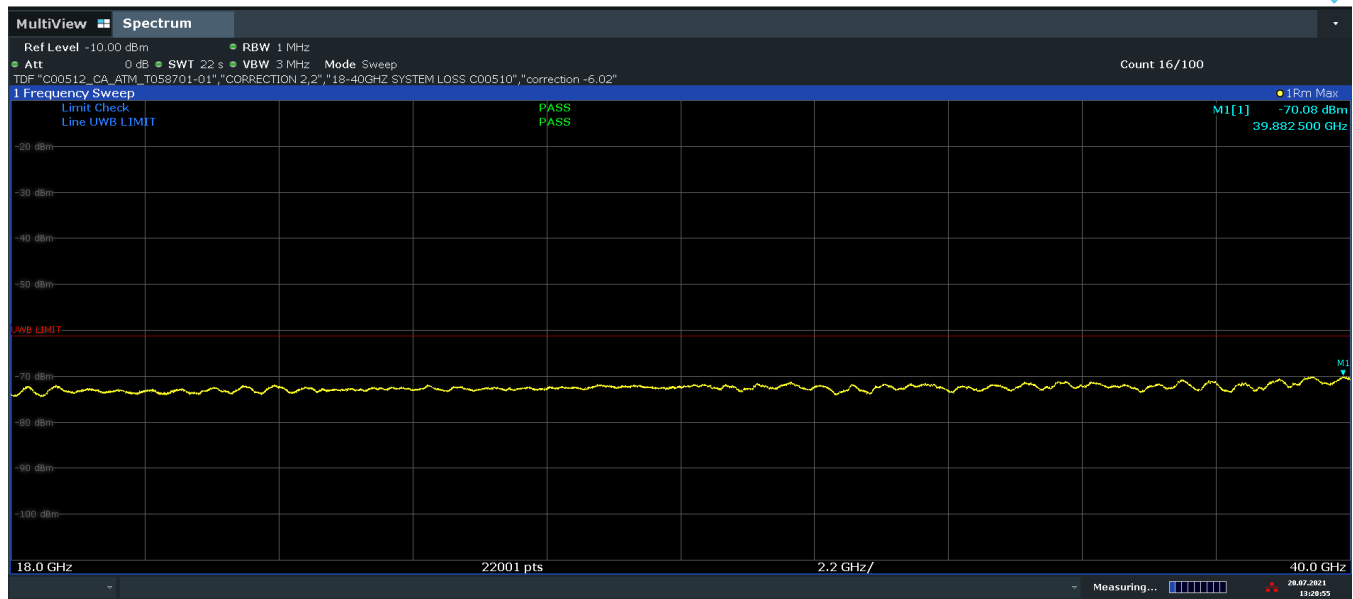
FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-13.BCG	Test Dates: 6/8/21 - 8/1/21	EUT Type: Watch	Page 43 of 60

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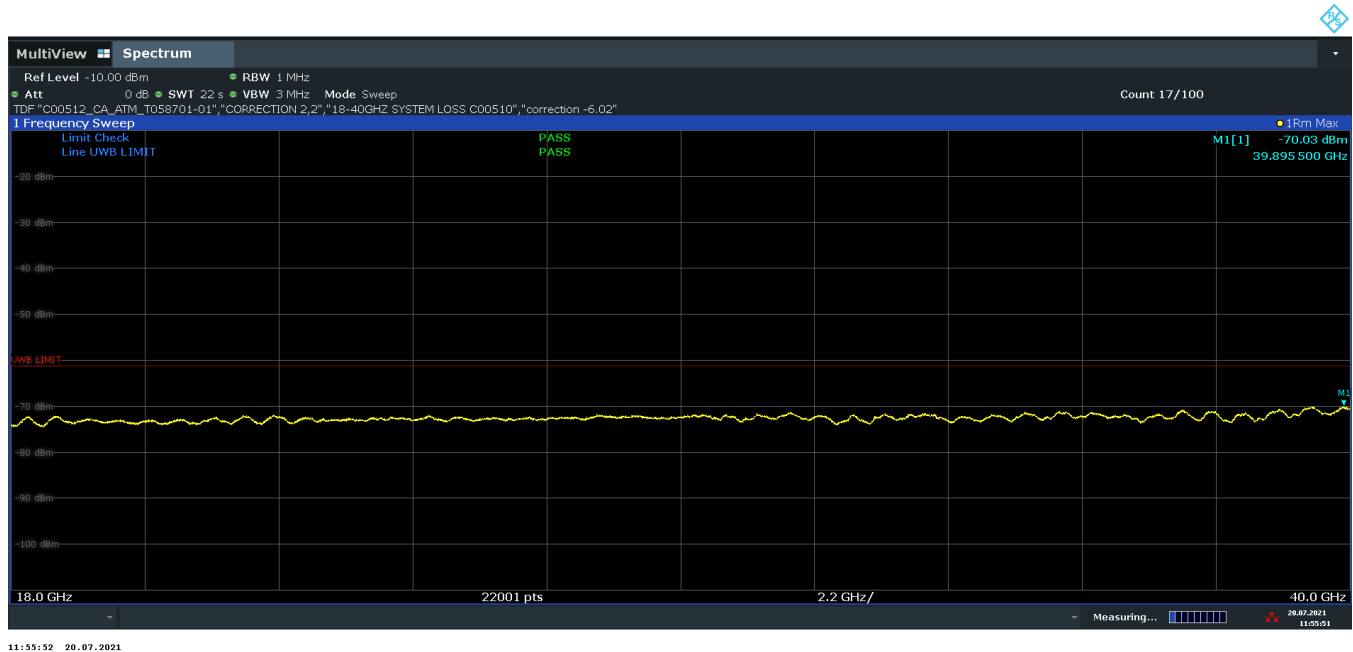
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Radiated Spurious Emissions (Above 18GHz) §15.519 (c); RSS-220 [5.3.1(d)]

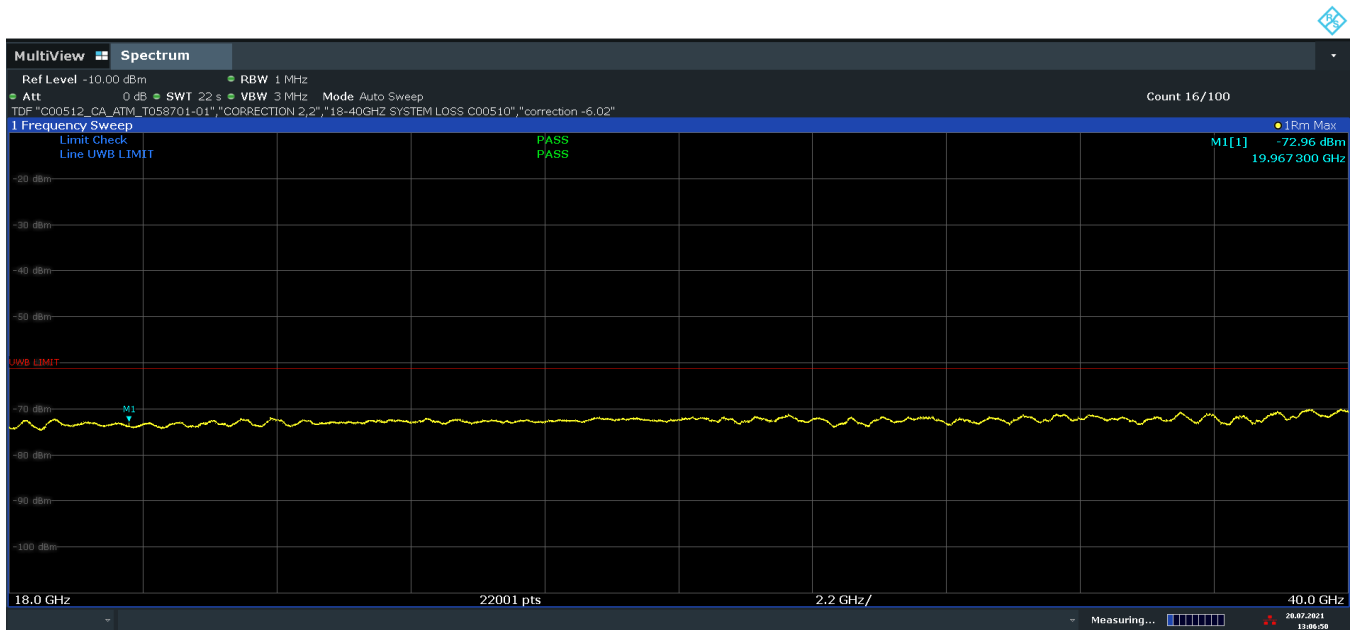


Plot 7-35. Radiated Spurious Emission 18-40GHz (Ch. 5, Config 3, Payload 125 Ant. Pol. H)



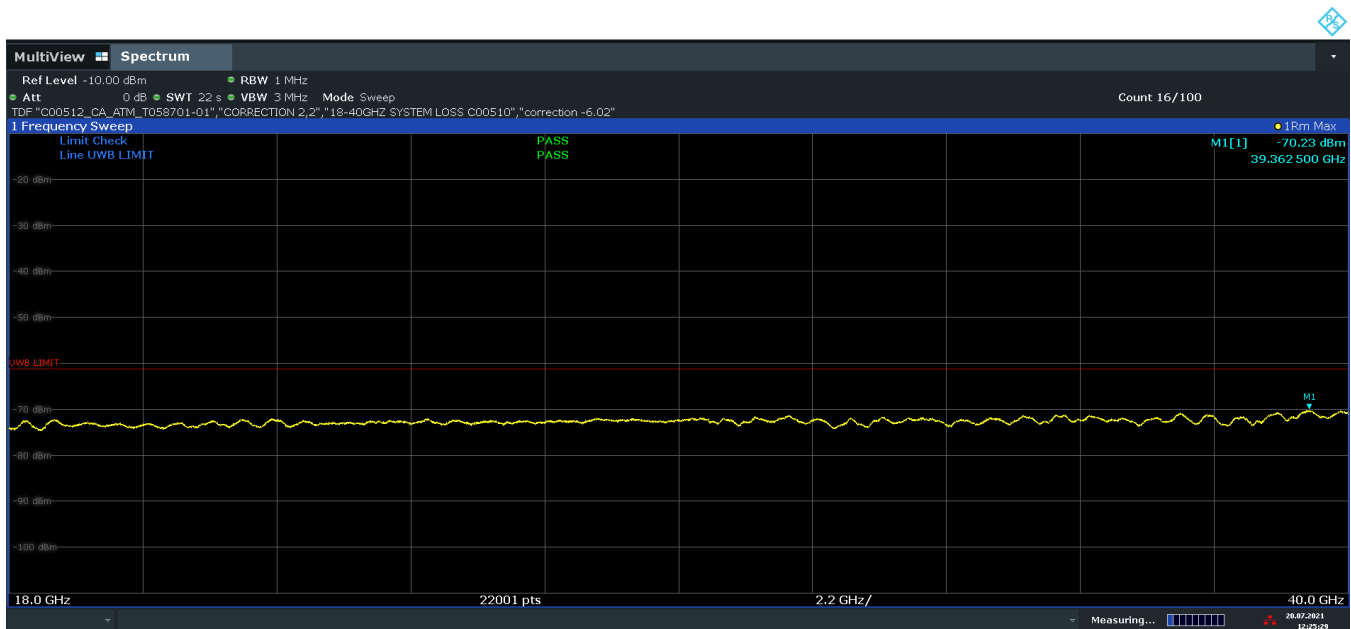
Plot 7-36. Radiated Spurious Emission 18-40GHz (Ch. 5, Config 3, Payload 125 Ant. Pol. V)

FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-13.BCG	Test Dates: 6/8/21 - 8/1/21	EUT Type: Watch	Page 44 of 60



13:06:51 20.07.2021

Plot 7-37. Radiated Spurious Emission 18-40GHz (Ch. 9, Config 3, Payload 125 Ant. Pol. H)



12:25:29 20.07.2021

Plot 7-38. Radiated Spurious Emission 18-40GHz (Ch. 9, Config 3, Payload 125 Ant. Pol. V)

FCC ID: BCG-A2475 IC: 579C-A2475	 PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-13.BCG	Test Dates: 6/8/21 - 8/1/21	EUT Type: Watch	Page 45 of 60

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Radiated Spurious Emission Measurements (960MHz-18GHz)

§15.519 (c); RSS-220 [5.3.1(d)]

Distance of Measurements: 0.6 Meter
Operating Frequency: 6500 MHz
Channel: 5
Config: 3
Payload: 125

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]
1024	Avg	V	-	-	-74.88	-5.38	-2.24	-82.50	-75.30	-7.20
1970	Avg	V	-	-	-76.37	-1.92	-2.24	-80.53	-63.30	-17.23
2265	Avg	V	130	236	-71.87	-1.37	-2.24	-75.48	-61.30	-14.18
13417	Avg	V	-	-	-75.84	9.02	-2.24	-69.06	-61.30	-7.76
17288	Avg	V	-	-	-74.87	11.81	-2.24	-65.30	-61.30	-4.00
17292	Avg	V	-	-	-74.96	11.81	-2.24	-65.39	-61.30	-4.09

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

Distance of Measurements: 0.6 Meter
Operating Frequency: 6500 MHz
Channel: 5
Config: 3
Payload: 125

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]
1249	Avg	V	-	-	-74.74	-4.75	-2.24	-81.73	-75.30	-6.43
4603	Avg	V	-	-	-76.34	2.41	-2.24	-76.17	-70.00	-6.17
4604	Avg	V	-	-	-76.42	2.41	-2.24	-76.25	-70.00	-6.25
13403	Avg	V	-	-	-75.86	9.02	-2.24	-69.08	-61.30	-7.78
17287	Avg	V	-	-	-74.99	11.81	-2.24	-65.42	-61.30	-4.12
17291	Avg	V	-	-	-75.00	11.81	-2.24	-65.43	-61.30	-4.13

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

FCC ID: BCG-A2475 IC: 579C-A2475		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-13.BCG	Test Dates: 6/8/21 - 8/1/21	EUT Type: Watch	Page 46 of 60

Radiated Spurious Emission Measurements (960MHz-18GHz)

§15.519 (c); RSS-220 [5.3.1(d)]

Distance of Measurements: 0.6 Meter
Operating Frequency: 8000 MHz
Channel: 9
Config: 3
Payload: 125

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]
1250	Avg	H	-	-	-74.96	-4.75	-2.24	-81.95	-75.30	-6.65
1973	Avg	H	-	-	-76.78	-1.92	-2.24	-80.94	-63.30	-17.64
2265	Avg	H	150	254	-74.77	-1.37	-2.24	-78.38	-61.30	-17.08
16490	Avg	H	-	-	-76.01	11.05	-2.24	-67.20	-61.30	-5.90
17283	Avg	H	-	-	-75.04	11.81	-2.24	-65.47	-61.30	-4.17
17292	Avg	H	-	-	-75.02	11.81	-2.24	-65.45	-61.30	-4.15

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

Distance of Measurements: 0.6 Meter
Operating Frequency: 8000 MHz
Channel: 9
Config: 3
Payload: 125

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]
1249	Avg	H	-	-	-74.77	-4.75	-2.24	-81.76	-75.30	-6.46
4597	Avg	H	-	-	-76.49	2.41	-2.24	-76.32	-70.00	-6.32
4606	Avg	H	-	-	-76.47	2.41	-2.24	-76.30	-70.00	-6.30
13427	Avg	H	-	-	-75.83	9.02	-2.24	-69.05	-61.30	-7.75
17284	Avg	H	-	-	-75.05	11.81	-2.24	-65.48	-61.30	-4.18
17285	Avg	H	-	-	-75.01	11.81	-2.24	-65.44	-61.30	-4.14

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

FCC ID: BCG-A2475 IC: 579C-A2475		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-13.BCG	Test Dates: 6/8/21 - 8/1/21	EUT Type: Watch	Page 47 of 60

Radiated Spurious Emission Measurements (Above 18GHz)

§15.519 (c); RSS-220 [5.3.1(d)]

Distance of Measurements: 0.5 Meter
Operating Frequency: 6500 MHz
Channel: 5
Config: 3
Payload: 125

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]
19296	Avg	H	-	-	-61.37	-7.47	-3.82	-72.66	-61.30	-11.36
22317	Avg	H	-	-	-61.14	-6.95	-3.82	-71.91	-61.30	-10.61
25939	Avg	H	-	-	-62.16	-6.36	-3.82	-72.34	-61.30	-11.04
32345	Avg	H	-	-	-63.96	-3.88	-3.82	-71.66	-61.30	-10.36
39250	Avg	H	-	-	-62.96	-3.61	-3.82	-70.39	-61.30	-9.09

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

Distance of Measurements: 0.5 Meter
Operating Frequency: 8000 MHz
Channel: 9
Config: 3
Payload: 125

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]
19257	Avg	H	-	-	-61.50	-7.47	-3.82	-72.79	-61.30	-11.49
22301	Avg	H	-	-	-61.15	-6.95	-3.82	-71.92	-61.30	-10.62
25933	Avg	H	-	-	-62.21	-6.36	-3.82	-72.39	-61.30	-11.09
32354	Avg	H	-	-	-63.95	-3.88	-3.82	-71.65	-61.30	-10.35
39247	Avg	H	-	-	-63.09	-3.61	-3.82	-70.52	-61.30	-9.22

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

FCC ID: BCG-A2475 IC: 579C-A2475		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-13.BCG	Test Dates: 6/8/21 - 8/1/21	EUT Type: Watch	Page 48 of 60

7.7 Radiated Spurious Emissions – Below 960MHz

§15.209; RSS-Gen [8.9]

Test Overview and Limit

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

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-21 per Section 15.209 and RSS-Gen (8.9).

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 C63.10-2013

Test Settings

Quasi-Peak Field Strength Measurements

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

Peak Field Strength Measurements

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

FCC ID: BCG-A2475 IC: 579C-A2475		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106070043-13.BCG	Test Dates: 6/8/21 - 8/1/21	EUT Type: Watch	Page 49 of 60

Test Setup

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

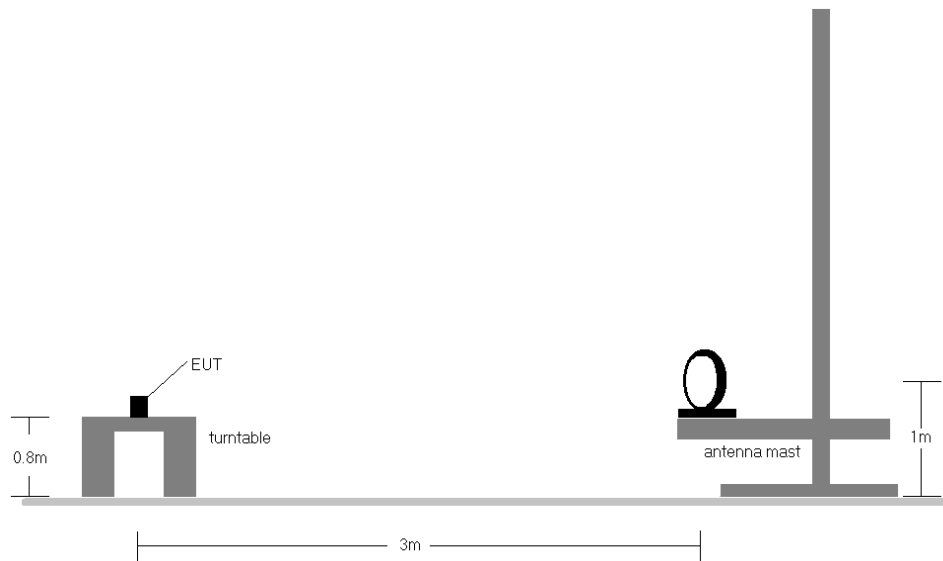


Figure 7-6. Radiated Test Setup < 30Mhz

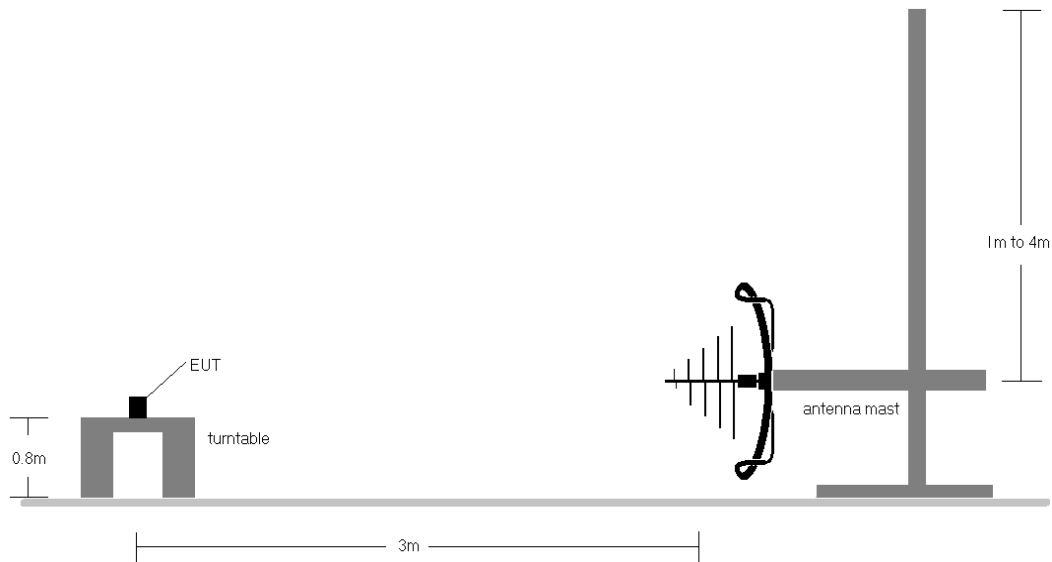


Figure 7-7. Radiated Test Setup < 1GHz

FCC ID: BCG-A2475 IC: 579C-A2475		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Test Notes

1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen(8.10) are below the limit shown in Table 7-21.
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. 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
8. No spurious emissions were detected within 20dB of the limit below 30MHz.
9. 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.
10. All modes of operation were investigated and the worst-case emissions are reported.

Sample Calculations

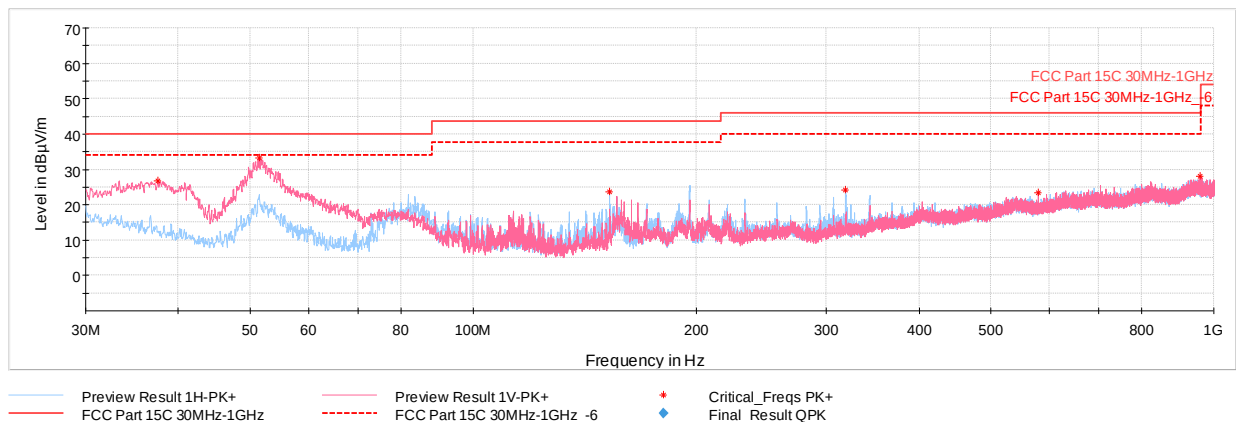
Determining Spurious Emissions Levels

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

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7.7.1 Radiated Spurious Emissions (Below 960MHz)

§15.209; RSS-Gen [8.9]

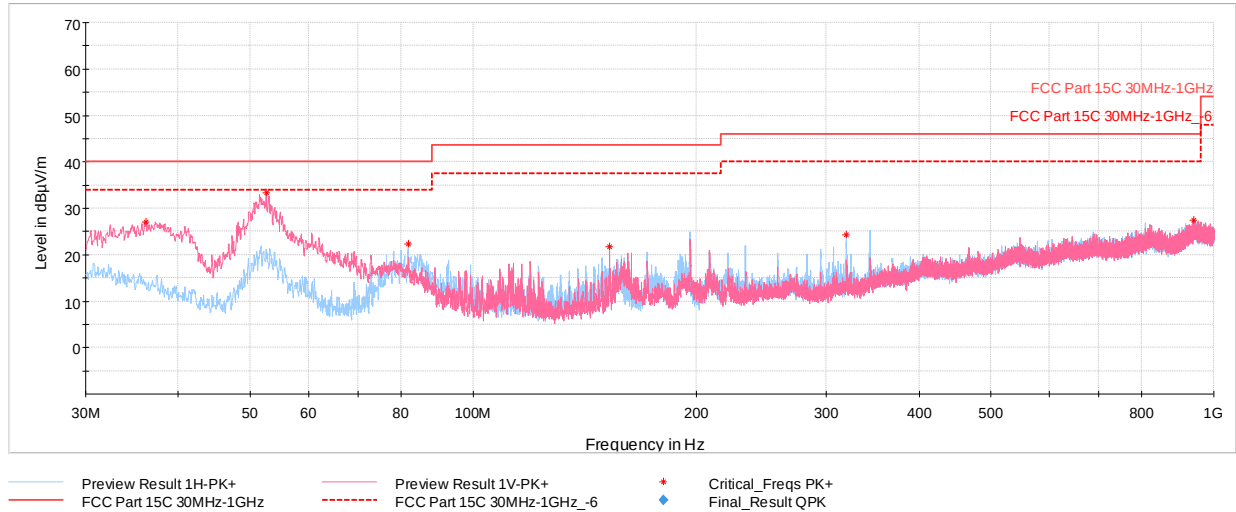


Plot 7-39. Radiated Spurious Emission 30-960MHz (Ch. 5, Config 3, Payload 125 with AC/DC Adapter + Magnetic Charger)

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]
37.52	Max Peak	V	100	254	-66.57	-13.73	26.70	40.00	-13.30
51.53	Max Peak	V	100	6	-53.59	-20.25	33.16	40.00	-6.84
152.85	Max Peak	H	250	231	-66.09	-17.23	23.68	43.52	-19.84
318.58	Max Peak	H	100	252	-69.55	-13.36	24.09	46.02	-21.93
578.73	Max Peak	V	250	334	-76.94	-6.58	23.48	46.02	-22.54
957.61	Max Peak	V	250	330	-78.38	-0.64	27.98	46.02	-18.04

Table 7-22. Radiated Spurious Emission 30-960MHz (Ch. 5, Config 3, Payload 125 with AC/DC Adapter + Magnetic Charger)

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Plot 7-40. Radiated Spurious Emission 30-960MHz (Ch. 9, Config 3, Payload 125 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]
36.16	Max Peak	V	100	0	-67.25	-12.78	26.97	40.00	-13.03
52.60	Max Peak	V	100	38	-53.18	-20.52	33.30	40.00	-6.70
81.75	Max Peak	H	250	297	-63.72	-20.91	22.37	40.00	-17.63
152.85	Max Peak	H	250	353	-68.07	-17.23	21.70	43.52	-21.82
319.21	Max Peak	H	100	235	-69.27	-13.35	24.38	46.02	-21.64
938.84	Max Peak	V	100	0	-78.89	-0.68	27.43	46.02	-18.59

Table 7-23. Radiated Spurious Emission 30-960MHz (Ch. 9, Config 3, Payload 125 with AC/DC Adapter + Magnetic Charger)

FCC ID: BCG-A2475 IC: 579C-A2475	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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7.8 AC Line-Conducted Emission 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 (dBμV)	
	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 C63.10-2013, Section 6.2

Test Settings

Quasi-Peak Measurements

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

Average Measurements

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

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Test Setup

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

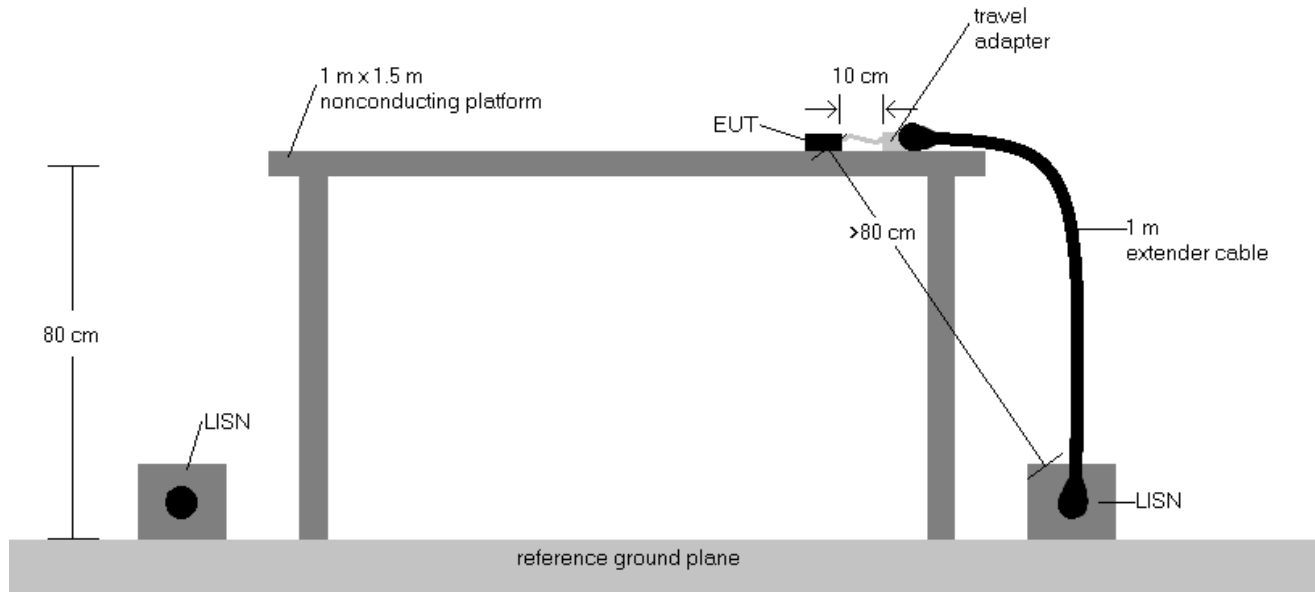
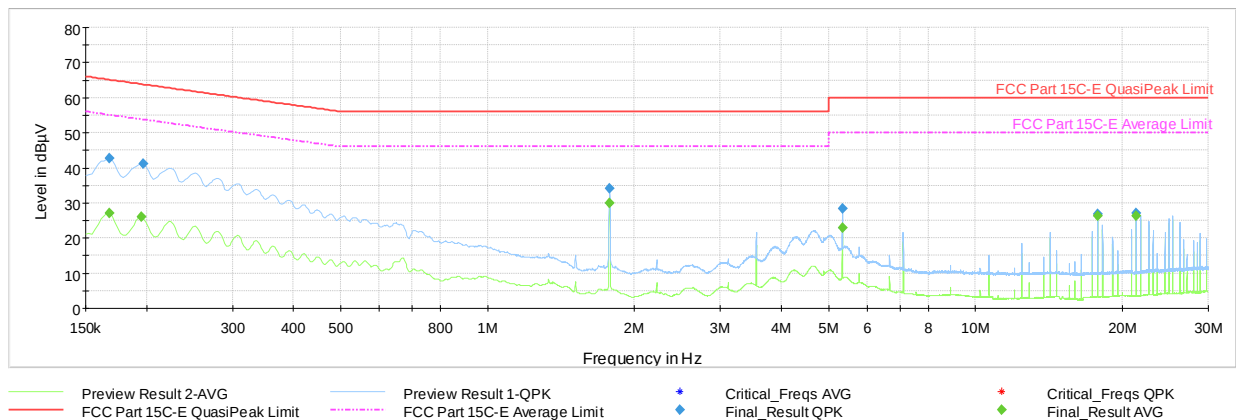


Figure 7-8. Test Instrument & Measurement Setup

Test Notes

- 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.
- The limit for an intentional radiator from 150kHz to 30MHz are specified in Part 15.207 and RSS-Gen (8.8).
- $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
- $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Corr. (dB)}$
- $\text{Margin (dB)} = \text{QP/AV Level (dB}\mu\text{V)} - \text{QP/AV Limit (dB}\mu\text{V)}$
- Traces shown in plot are made using a quasi-peak and average detectors
- Both configurations below were investigated, and the worst case has been reported.
 - EUT powered by AC/DC adapter via USB-C cable with magnetic charger
 - EUT powered by host PC via USB-C cable with magnetic charger
- Deviations to the Specifications: None.

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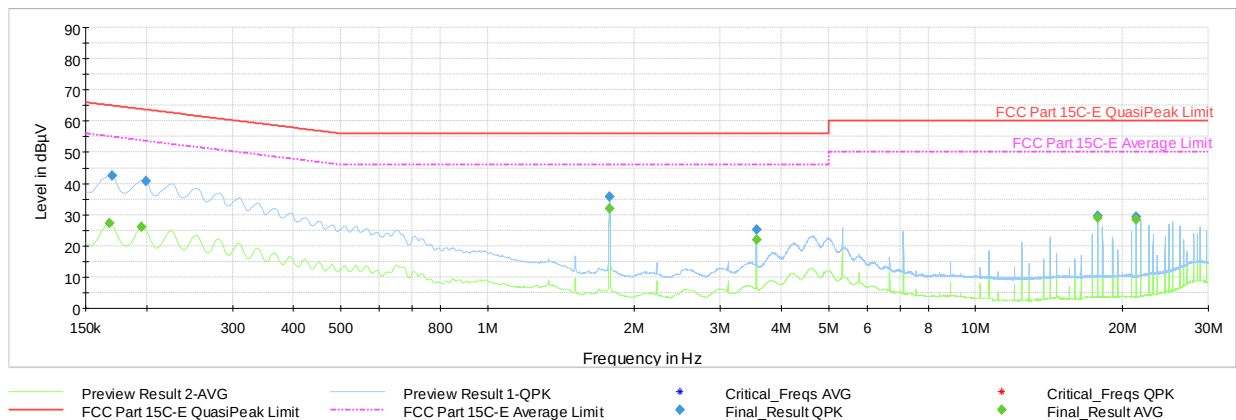


Plot 7-41. AC Line Conducted (Ch. 5, Config 3, Payload 125 L1, with AC/DC Adapter + Magnetic Charger)

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.168	FINAL	42.7	—	65.06	-22.36	L1	GND
0.168	FINAL	—	27.05	55.06	-28.01	L1	GND
0.195	FINAL	—	25.98	53.82	-27.84	L1	GND
0.197	FINAL	41.2	—	63.73	-22.57	L1	GND
1.777	FINAL	34.0	—	56.00	-21.97	L1	GND
1.777	FINAL	—	30.05	46.00	-15.95	L1	GND
5.334	FINAL	—	22.90	50.00	-27.10	L1	GND
5.334	FINAL	28.3	—	60.00	-31.67	L1	GND
17.777	FINAL	—	26.20	50.00	-23.80	L1	GND
17.777	FINAL	26.9	—	60.00	-33.06	L1	GND
21.334	FINAL	27.1	—	60.00	-32.86	L1	GND
21.334	FINAL	—	26.19	50.00	-23.81	L1	GND

Table 7-25. AC Line Conducted Data (Ch. 5, Config 3, Payload 125 L1, with AC/DC Adapter + Magnetic Charger)

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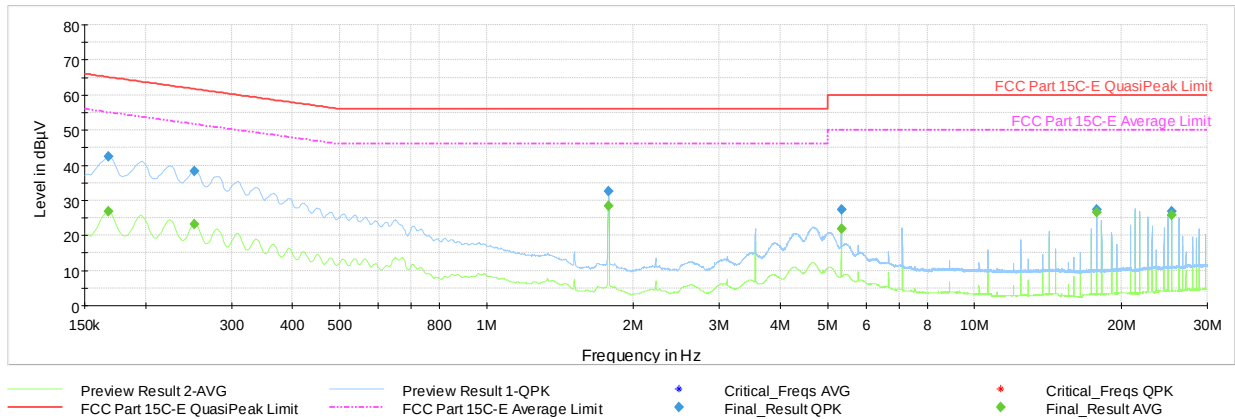


Plot 7-42. AC Line Conducted (Ch. 5, Config 3, Payload 125 N, with AC/DC Adapter + Magnetic Charger)

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.168	FINAL	—	27.27	55.06	-27.79	N	GND
0.170	FINAL	42.5	—	64.95	-22.43	N	GND
0.195	FINAL	—	26.02	53.82	-27.80	N	GND
0.200	FINAL	40.8	—	63.63	-22.81	N	GND
1.777	FINAL	35.7	—	56.00	-20.31	N	GND
1.777	FINAL	—	32.08	46.00	-13.92	N	GND
3.557	FINAL	—	21.85	46.00	-24.15	N	GND
3.557	FINAL	25.1	—	56.00	-30.87	N	GND
17.777	FINAL	—	29.02	50.00	-20.98	N	GND
17.777	FINAL	29.5	—	60.00	-30.49	N	GND
21.334	FINAL	29.2	—	60.00	-30.79	N	GND
21.334	FINAL	—	28.53	50.00	-21.47	N	GND

Table 7-26. AC Line Conducted Data (Ch. 5, Config 3, Payload 125 N, with AC/DC Adapter + Magnetic Charger)

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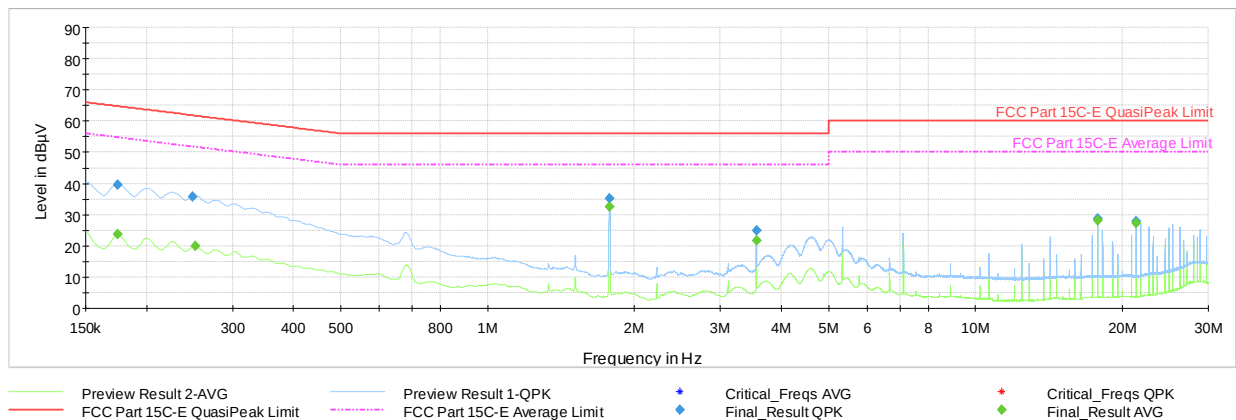


Plot 7-43. AC Line Conducted (Ch. 9, Config 3, Payload 125 L1, with AC/DC Adapter + Magnetic Charger)

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.168	FINAL	42.4	—	65.06	-22.67	L1	GND
0.168	FINAL	—	26.86	55.06	-28.20	L1	GND
0.251	FINAL	38.2	—	61.72	-23.50	L1	GND
0.251	FINAL	—	23.13	51.72	-28.58	L1	GND
1.777	FINAL	32.7	—	56.00	-23.34	L1	GND
1.777	FINAL	—	28.42	46.00	-17.58	L1	GND
5.334	FINAL	—	21.97	50.00	-28.03	L1	GND
5.334	FINAL	27.5	—	60.00	-32.52	L1	GND
17.777	FINAL	—	26.48	50.00	-23.52	L1	GND
17.777	FINAL	27.2	—	60.00	-32.76	L1	GND
25.332	FINAL	26.8	—	60.00	-33.19	L1	GND
25.332	FINAL	—	25.73	50.00	-24.27	L1	GND

Table 7-27. AC Line Conducted Data (Ch. 9, Config 3, Payload 125 L1, with AC/DC Adapter + Magnetic Charger)

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Plot 7-44. AC Line Conducted Plot (Ch. 9, Config 3, Payload 125 N, with AC/DC Adapter + Magnetic Charger)

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.175	FINAL	39.6	—	64.73	-25.15	N	GND
0.175	FINAL	—	23.67	54.73	-31.06	N	GND
0.249	FINAL	35.8	—	61.79	-26.00	N	GND
0.251	FINAL	—	20.06	51.72	-31.66	N	GND
1.777	FINAL	35.2	—	56.00	-20.76	N	GND
1.777	FINAL	—	32.67	46.00	-13.33	N	GND
3.557	FINAL	—	21.55	46.00	-24.45	N	GND
3.557	FINAL	24.8	—	56.00	-31.21	N	GND
17.777	FINAL	—	28.22	50.00	-21.78	N	GND
17.777	FINAL	28.7	—	60.00	-31.35	N	GND
21.334	FINAL	27.8	—	60.00	-32.16	N	GND
21.334	FINAL	—	27.19	50.00	-22.82	N	GND

Table 7-28. AC Line Conducted Data (Ch. 9, Config 3, Payload 125 N, with AC/DC Adapter + Magnetic Charger)

FCC ID: BCG-A2475 IC: 579C-A2475	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Apple Watch FCC ID: BCG-A2475** and **IC: 579C-A2475** is in compliance with Part 15 Subpart F (15.519) of the FCC Rules and RSS-220 of the Innovation, Science and Economic Development Canada Rules.

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