

RADIO PERFORMANCE TEST REPORT

Test Report No. : OT-265-RWD-016

Reception No. : 2601000303

Applicant : Bushnell Holdings, LLC

Address : 177 Garden Drive, Bozeman, Montana 59718 USA

Manufacturer : Bushnell Holdings, LLC

Address : 177 Garden Drive, Bozeman, Montana 59718 USA

Type of Equipment : GPS Golf Watch

FCC ID : 2ASQI-362650

Model Name : 362650

Multiple Model Name : 362651

Serial number : N/A

Total page of Report : 33 pages (including this page)

Date of Incoming : January 23, 2026

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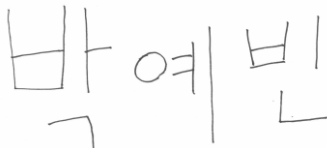
SUMMARY

The equipment complies with the regulation; **FCC PART 15 SUBPART C Section 15.247**

This test report only contains the result of a single test of the sample supplied for the examination.

It is not a generally valid assessment of the features of the respective products of the mass-production.

This test report is not associated with the accreditation granted by the Korean Laboratory Accreditation Scheme (KOLAS).



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※ Please refer to the Annex section for All test plots

Revision History

Rev. No.	Issue Report No.	Issued Date	Revisions	Section Affected
0	OT-265-RWD-016	May 15, 2026	Initial Release	All

1. VERIFICATION OF COMPLIANCE

Applicant : Bushnell Holdings, LLC
Address : 177 Garden Drive, Bozeman, Montana 59718 USA
Contact Person : Kurt Hal
Telephone No. : +1-949-757-9500
FCC ID : 2ASQI-362650
Model Name : 362650
Brand Name : -
Serial Number : N/A
Date : May 15, 2026

EQUIPMENT CLASS	DTS – DIGITAL TRNSMISSION SYSTEM
E.U.T. DESCRIPTION	GPS Golf Watch
THIS REPORT CONCERNS	Original Grant
MEASUREMENT PROCEDURES	ANSI C63.10: 2020
TYPE OF EQUIPMENT TESTED	Pre-Production
KIND OF EQUIPMENT AUTHORIZATION REQUESTED	Certification
EQUIPMENT WILL BE OPERATED UNDER FCC RULES PART(S)	FCC PART 15 SUBPART C Section 15.247 KDB 558074 D01 15.247 Meas Guidance v05r02
Modifications on the Equipment to Achieve Compliance	None
Final Test was Conducted On	3 m, Semi Anechoic Chamber

-. The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. This said equipment in the configuration described in this report, shows the maximum emission levels emanating from equipment are within the compliance requirements.

2. TEST SUMMARY

2.1 Test items and results

SECTION	TEST ITEMS	RESULTS
15.247 (a) (2)	Minimum 6 dB Bandwidth	Met the Limit / PASS
15.247 (b) (3)	Maximum Conducted Output Power	Met the Limit / PASS
15.247 (e)	Power Spectral Density	Met the Limit / PASS
15.247 (d)	100 kHz Bandwidth Outside the Frequency Band	Met the Limit / PASS
15.209	Radiated Emission Limits	Met the Limit / PASS
15.247 (d)	Radiated Emission which fall in the Restricted Band	Met the Limit / PASS
15.207	Conducted Limits	Met the Limit / PASS
15.203	Antenna Requirement	Met requirement / PASS

2.2 Additions, deviations, exclusions from standards

No additions, deviations or exclusions have been made from standard.

2.3 Related Submittal(s) / Grant(s)

Original submittal only

2.4 Purpose of the test

To determine whether the equipment under test fulfills the requirements of the regulation stated in FCC PART 15 SUBPART C Section 15.247.

2.5 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10: 2020. Radiated testing was performed at a distance of 3 m from EUT to the antenna.

2.6 Test Facility

The Onetech Corp. has been designated to perform equipment testing in compliance with ISO/IEC 17025.

The Electromagnetic compatibility measurement facilities are located at 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea

-. Site Filing:

VCCI (Voluntary Control Council for Interference) – Registration No. R-20122/ C-14617/ G-10666/ T-11842

-. Lab Accreditation:

KOLAS (Korea Laboratory Accreditation Scheme) - Accreditation NO. KT085

ISED (Innovation, Science and Economic Development Canada) – Registration No. Site# 3736A-3

FCC (Federal Communications Commission) - Accreditation No. KR0013

RRA (Radio Research Agency) – Designation No. KR0013

3. GENERAL INFORMATION

3.1 Product Description

The Bushnell Holdings, LLC, Model 362650 (referred to as the EUT in this report) is a GPS Golf Watch. The product specification described herein was obtained from product data sheet or user's manual.

DEVICE TYPE	GPS Golf Watch	
Temperature Range	0 °C ~ +35 °C	
OPERATING FREQUENCY	Bluetooth LE	2 402 MHz ~ 2 480 MHz
	Bluetooth	2 402 MHz ~ 2 480 MHz
MODULATION TYPE	Bluetooth LE	GFSK for 1 Mbps / 2 Mbps
	Bluetooth	FHSS for 1 Mbps, π /4-DQPSK for 2Mbps, 8-DPSK for 3Mbps
ANTENNA TYPE	LDS Antenna	
List of each Osc. or crystal Freq.(Freq. $\geq$ 1 MHz)	32.768 kHz, 24 MHz, 48 MHz	

3.2 Maximum Peak Output Power

Mode	Data Reate	SISO			
		Peak Output Power		E.I.R.P Power	
		Ant 0	Ant 1	Ant 0	Ant 1
		(dBm)	(dBm)	(dBm)	(dBm)
BLE	1 Mbps	5.88	-	-	-
	2 Mbps	5.91	-	-	-

3.3 Alternative type(s)/model(s); also covered by this test report.

-. The following lists consist of the added model and their differences.

Model Name	Differences	Tested
362650	Basic Model	☒
362651	The model is identical to basic model except for the Color.	☐

Note: 1. Applicant consigns only basic model to test. Therefore this test report just guarantees the units, which have been tested.

2. The Applicant/manufacture is responsible for the compliance of all variants.

4. EUT MODIFICATIONS

-. None

5. SYSTEM TEST CONFIGURATION

5.1 Justification

This device was configured for testing in a typical way as a normal customer is supposed to be used. During the test, the following components were installed inside of the EUT.

DEVICE TYPE	MANUFACTURER	MODEL/PART NUMBER	FCC ID
Main Board	Bushnell Holdings, LLC	N/A	N/A

5.2 Peripheral equipment

Defined as equipment needed for correct operation of the EUT, but not considered as tested:

Model	Manufacturer	Description	Connected to
362650	Bushnell Holdings, LLC	GPS Golf Watch (EUT)	
ZUP36-6	TDK-Lambda	DC Power Supply	EUT
GP-4303D	LG Precision Co., Ltd	DC Power Supply	EUT
15s-fq1008TU	HP	Notebook PC	EUT
TPN-CA14	HP	AC Adapter	-

5.3 Mode of operation during the test

For the testing, software used to control the EUT for staying in continuous transmitting is programmed.

-. Frequency / Channel Operations

Channel	Frequency
0	2 402
19	2 440
39	2 480

-. Power Level Setting(Dec)

Mode	Channel No.	Frequency (MHz)	PLS Setting	
			Ant 0	Ant 1
Bluetooth LE	1 Mbps	0	10	-
		19	10	-
		39	10	-
	2 Mbps	0	10	-
		19	10	-
		39	10	-

5.4 Configuration of Test System

Line Conducted Test:

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 6.2 of ANSI C63.10: 2020 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-peak and average Measurement Type or modes.

Radiated Emission Test:

Preliminary radiated emissions test were conducted using the procedure in ANSI C63.10: 2020 to determine the worse operating conditions. Final radiated emission tests were conducted at 3 meter Semi Anechoic Chamber.

The EUT is placed on a turn table, which is 0.8 m above ground plane below 1 GHz. Above 1 GHz with 1.5 m using absorbers between the EUT and receive antenna. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3 m away from the receiving antenna, which varied from 1 m to 4 m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

In order to find out the max. emission, the relative positions of this EUT was rotated through three orthogonal axes according to the requirements in Section 6.6.5 of ANSI C63.10: 2020

5.5 Antenna Requirement

For intentional device, according to section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

Antenna Construction:

The EUT's antennas are a LDS Antenna, which are permanently attached to the EUT and cannot be replaced by the user.

6. MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2020.

All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95 % level of confidence.

The measurement data shown herein 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.

Parameter	Expanded Uncertainty (dB)
Conducted Output Power	1.22
Conducted Spurious Emission < 26.5 GHz	1.40
Power Spectral Density	1.22
Line Conducted Disturbance (150 kHz ~ 30 MHz)	1.40
Radiated Disturbance (9 kHz ~ 30 MHz)	3.28
Radiated Disturbance (30 MHz ~ 1 GHz)	4.42
Radiated Disturbance (1 GHz ~ 18 GHz)	5.12
Radiated Disturbance (18 GHz ~ 40 GHz)	4.62

7. PRELIMINARY TEST

7.1 AC Power line Conducted Emissions Tests

During Preliminary Test, the following operating mode was investigated.

Operation Mode	The Worse operating condition (Please check one only)
Transmitting Mode	X

7.2 General Radiated Emissions Tests

During Preliminary Test, the following operating mode was investigated.

Operation Mode	The Worse operating condition (Please check one only)
Transmitting Mode	X

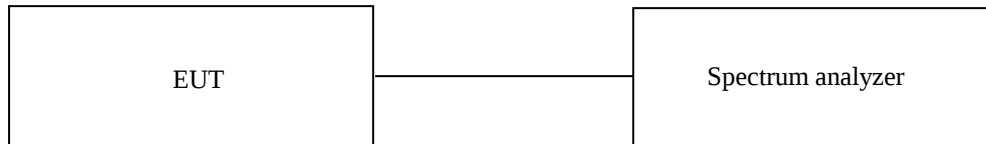
7.3 LIST OF TEST EQUIPMENT

Model Number	Manufacturer	Description	Serial Number	Last Cal.(Interval)
FSVA40	Rohde & Schwarz	Signal & Spectrum Analyzer	101593	Jan. 12, 2026 (1Y)
FSVA40	Rohde & Schwarz	Signal & Spectrum Analyzer	101598	Jan. 12, 2026 (1Y)
FSV3044	Rohde & Schwarz	Signal & Spectrum Analyzer	101758	Jul. 02, 2025 (1Y)
ZUP36-6	TDK-Lambda	DC Power Supply	6MJ-850Z16-0014	Jan. 12, 2026 (1Y)
GP-4303D	LG Precision Co., Ltd	DC Power Supply	5071069	Jan. 04, 2026 (1Y)
SMB100A	Rohde & Schwarz	SIGNAL GENERATOR	177648	Jan 14, 2026 (1Y)
MA24408A	Anritsu	Microwave Peak Power Sensor	12199	Jan 14, 2026 (1Y)
SH-241	ESPEC	Environmental Test Chamber	92009434	Jan 13, 2026 (1Y)
ESR	Rohde & Schwarz	EMI Test Receiver	101470	Mar. 11, 2025 (1Y)
310N	Sonoma Instrument	Pre-Amplifier	312544	Mar. 11, 2025 (1Y)
SCU18	Rohde & Schwarz	Pre-Amplifier	102266	Jul. 02, 2025 (1Y)
SCU40A	Rohde & Schwarz	Pre-Amplifier	100436	Jan. 15, 2026 (1Y)
DT5000	Innco System	Turn Table	N/A	N/A
MA-4000-XPET	Innco System	Antenna Master	MA4000/509/37211215/L	N/A
CO3000	Innco System	Controller	N/A	N/A
HLP-2008	TDK RF Solutions	Hybrid Antenna	131314	Mar. 01, 2025 (2Y)
BBHA9120D	Schwarzbeck	Horn Antenna	9120D-1366	Jun. 19, 2025 (1Y)
BBHA9120D	Schwarzbeck	Horn Antenna	9120D-1349	Jun. 27, 2025 (1Y)
BBHA9170	Schwarzbeck	Horn Antenna	BBHA9170178	Jan. 04, 2026 (1Y)
HPF 3GHz	Rohde & Schwarz	High Pass Filter	N/A	Jan. 12, 2026 (1Y)
8493C	HP	Coaxial Fixed Attenuator(6dB)	1366	Jul. 04, 2025 (1Y)
10 dB Attenuator	Rohde & Schwarz	10 dB Attenuator	14100882-3	Jul. 02, 2025 (1Y)
ESCI	Rohde & Schwarz	EMI TEST RECEIVER	101012	Sep. 24, 2025 (1Y)
ESCI	Rohde & Schwarz	EMI TEST RECEIVER	101013	Mar. 11, 2025 (1Y)
NSLK8126	Schwarzbeck	V - LISN (4*16/25A)	8126404	Mar. 11, 2025 (1Y)
ESH3-Z2	Rohde & Schwarz	PULSE LIMITER	100655	Mar. 11, 2025 (1Y)

8. DESCRIPTION OF TEST

8.1 Duty Cycle

1) Test Configuration



2) Test Procedure

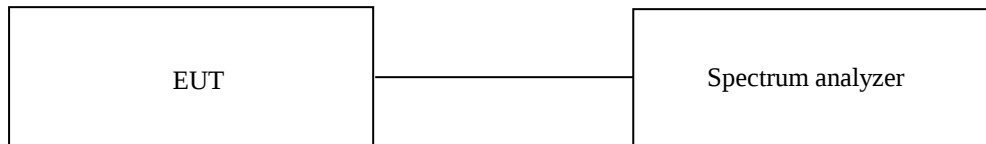
1. RBW = 10 MHz (the largest available value)
2. VBW = 10 MHz ($\geq$ RBW)
3. SPAN = 0 Hz
4. Measurement Type = Peak
5. Trace mode = Clear write
6. Calculate Duty Cycle = T_{on} / T_{total} and Duty Cycle Factor = $10\log(1/\text{Duty Cycle})$

8.2 Minimum 6 dB Bandwidth

1) Limit

According to §15.247(a)(2), The minimum 6 dB bandwidth shall be at least 500 kHz.

2) Test Configuration



3) Test Procedure

6 dB Bandwidth

We tested according to Procedure Section 11.8 in ANSI C63.10-2020.

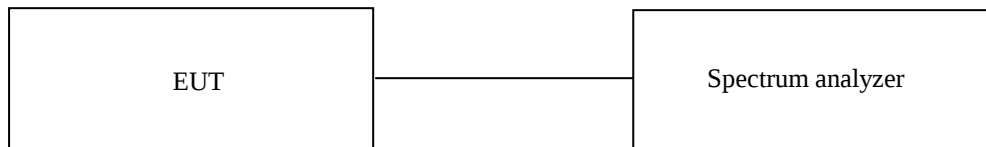
1. RBW: shall be in the range of 1 % to 5% of the OBW but not less than 100 kHz.
2. VBW $\geq$ 3 x RBW
3. Sweep: No faster than coupled (auto) time
4. Detector: Peak
5. Trace mode: max hold
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "-6 dB down amplitude". If a marker is below this "-6 dB down amplitude" value, then it shall be as close as possible to this value.

8.3 Maximum Peak Output Power

1) Limit

According to §15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt.

2) Test Configuration



3) Test Procedure

We tested according to Procedure Section 11.9.1 in ANSI C63.10-2020.

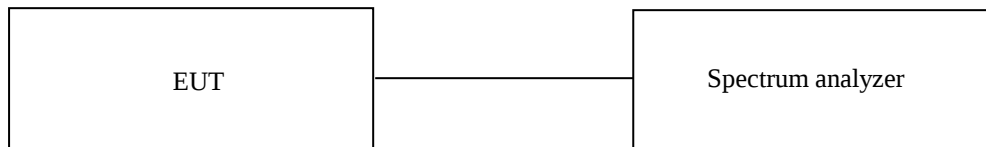
1. $RBW \geq DTS \text{ bandwidth}$
2. $VBW \geq 3 \times RBW$
3. $Span \geq 3 \times RBW$
4. Sweep: No faster than coupled (auto) time
5. Detector: Peak
6. Trace mode: max hold
7. Allow the trace to stabilize.
8. Use peak marker function to determine the peak amplitude level.

8.4 Power Spectral Density

1) Limit

According to §15.247(e), The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

2) Test Configuration



3) Test Procedure

We tested according to Procedure Section 11.10.2 in ANSI C63.10-2020.

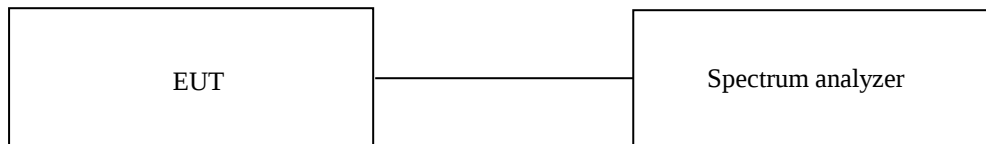
1. Set span to at least 1.5 times the DTS bandwidth
2. $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$
3. $\text{VBW} \geq 3 \times \text{RBW}$
4. Detector: Peak
5. Sweep: No faster than coupled (auto) time
6. Trace mode: max hold
7. Allow the trace to stabilize.
8. Use the peak marker function to determine the maximum amplitude level within the RBW.
9. If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

8.5 100 kHz Bandwidth Outside the Frequency Band

1) Limit

According to §15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

2) Test Configuration



3) Test Procedure

We tested according to Procedure Section 11.11 in ANSI C63.10-2020.

1. RBW: 100 kHz
2. VBW: 300 kHz
3. Sweep: No faster than coupled (auto) time
4. Detector: Peak
5. Trace mode: max hold
6. Allow the trace to stabilize.
7. Use the peak marker function to determine the maximum amplitude level.

8.6 Radiated Test

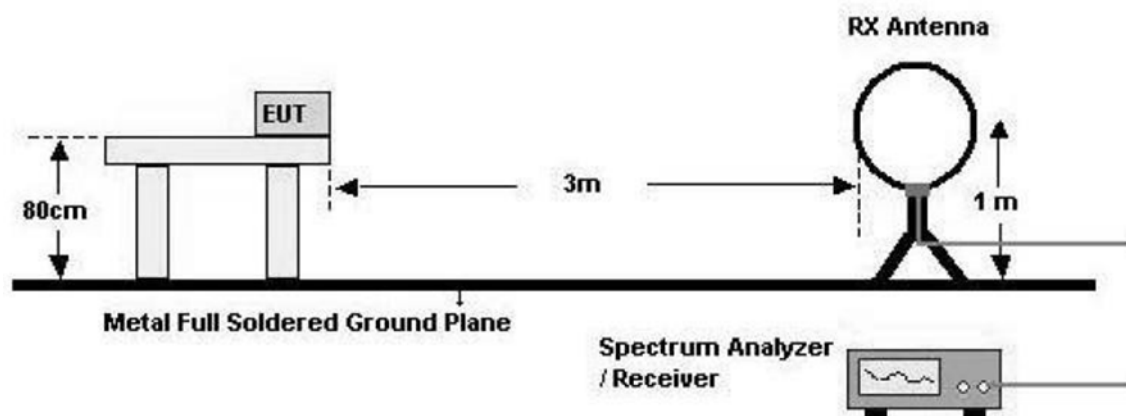
1) Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Section 15.209.

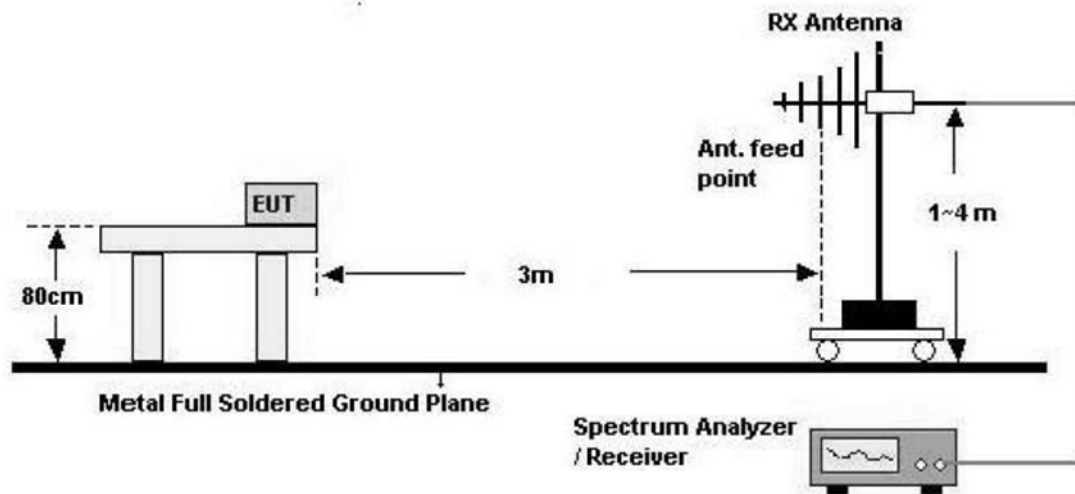
Frequency Range (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (m)
0.009 ~ 0.490	$2400/F(\text{kHz})$	300
0.490 ~ 1.705	$24000/F(\text{kHz})$	30
1.705 ~ 30	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 860	200	3
Above 960	500	3

2) Test Configuration

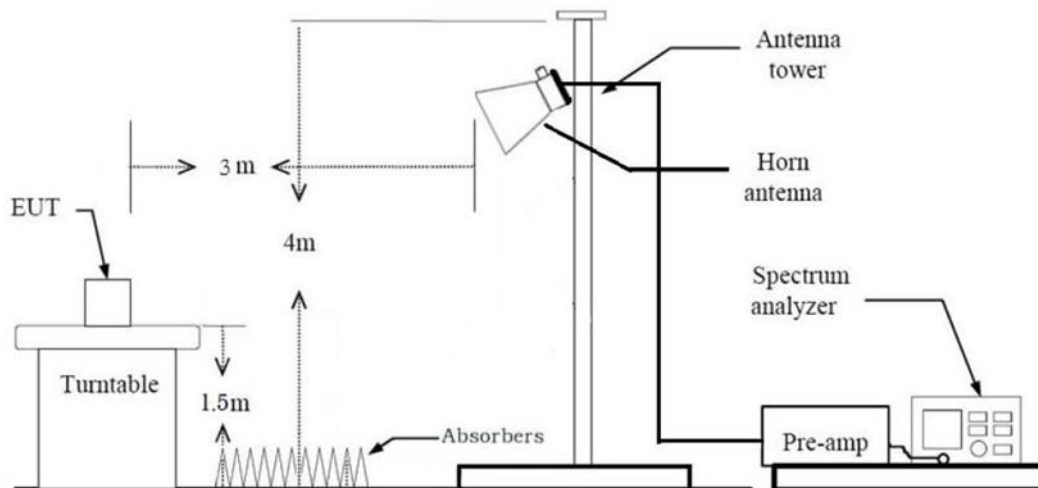
Below 30 MHz



30 MHz ~ 1 GHz



Above 1 GHz



3) Test Procedure

Radiated Spurious Emissions(Below 30 MHz)

We tested according to Procedure Section 6.4 in ANSI C63.10-2020.

1. The EUT was placed on a non-conductive table located on semi-anechoic chamber.
2. The loop antenna was placed at a location 3 m from the EUT
3. The EUT is placed on a turntable, which is 0.8m above ground plane.
4. We have done x, y, z planes in EUT and horizontal and vertical polarization and Parallel to the ground plane in detecting antenna.
5. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
6. Distance Correction Factor(0.009 MHz ~ 0.490 MHz) = $40 \cdot \log(3 \text{ m}/300 \text{ m}) = -80 \text{ dB}$
Measurement Distance : 3 m
7. Distance Correction Factor(0.490 MHz ~ 30 MHz) = $40 \cdot \log(3 \text{ m}/30 \text{ m}) = -40 \text{ dB}$
Measurement Distance : 3 m
8. Spectrum Setting
 - Frequency Range = 9 kHz ~ 30 MHz
 - Detector = Peak
 - Trace = Max Hold
 - RBW = 9 kHz
 - VBW $\geq 3 \times$ RBW
9. Measurement value only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.

Radiated Spurious Emissions(Below 1 GHz)

We tested according to Procedure Section 6.5 in ANSI C63.10-2020.

1. The EUT was placed on a non-conductive table located on semi-anechoic chamber.
2. The EUT is placed on a turntable, which is 0.8m above ground plane.
3. The Hybrid antenna was placed at a location 3 m from the EUT, which is varied from 1 m to 4 m to find out the highest emissions.
4. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
5. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
6. Spectrum Setting
 - 1) Measurement Type(Peak) :
 - Measured Frequency Range : 30 MHz - 1 GHz
 - Detector = Peak
 - Trace = Max Hold
 - RBW = 100 kHz
 - VBW $\geq$ 3 x RBW
 - 2) Measurement Type(Quasi-peak) :
 - Measured Frequency Range : 30 MHz - 1 GHz
 - Detector = Quasi-Peak
 - RBW = 120 kHz
7. Measurement value only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.

Radiated Spurious Emissions(Above 1 GHz)

We tested according to Procedure Section 6.6 & 11.12 in ANSI C63.10-2020.

1. The EUT is placed on a turntable, which is 1.5 m above ground plane.
2. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
3. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
4. EUT is set 3 m away from the receiving antenna, which is varied from 1 m to 4 m to find out the highest emissions.
5. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Spectrum Setting
 - 1) Measurement Type(Peak)
 - Measured Frequency Range : Center frequency was set to the frequency of the Radiated Spurious emission of interest
 - Detector = Peak
 - Trace = Max Hold
 - RBW = 1 MHz
 - VBW $\geq$ 3 x RBW
 - Sweep time = Auto
 - 2) Measurement Type(Method AD – Average Detection)
 - Measured Frequency Range : Center frequency was set to the frequency of the Radiated Spurious emission of interest
 - Detector = RMS(power average)
 - Averaging type = power averaging(RMS)
 - RBW = 1 MHz
 - VBW $\geq$ 3 x RBW
 - Sweep time = auto
 - Trace average at least 100 traces in power averaging(RMS) mode
7. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency
8. Distance extrapolation factor = $20\log(\text{test distance} / \text{specific distance})$ (dB)

Radiated Restricted Band Edge

We tested according to Procedure Section 6.10 & 11.12 in ANSI C63.10-2020.

1. The EUT is placed on a turntable, which is 1.5 m above ground plane.
2. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
3. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
4. EUT is set 3 m away from the receiving antenna, which is varied from 1 m to 4 m to find out the highest emissions.
5. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Spectrum Setting
 - 3) Measurement Type(Peak)
 - Detector = Peak
 - Trace = Max Hold
 - RBW = 1 MHz
 - VBW $\geq$ 3 x RBW
 - Sweep time = Auto
 - 4) Measurement Type(Method AD – Average Detection)
 - Detector = RMS(power average)
 - Averaging type = power averaging(RMS)
 - RBW = 1 MHz
 - VBW $\geq$ 3 x RBW
 - Sweep time = auto
 - Trace average at least 100 traces in power averaging(RMS) mode
7. Measured Frequency Range :
 - 1) 2 310 MHz ~ 2 390 MHz
 - 2) 2 483.5 MHz ~ 2 500 MHz
8. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency
9. Distance extrapolation factor = $20\log(\text{test distance} / \text{specific distance})$ (dB)

8.7 AC Power line Conducted Emissions

1) Limit

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN).

The limits are as specified in the tables below.

Frequency Range (MHz)	Limits (dB μ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56 ^(a)	56 to 46(a)
0.50 to 5	56	46
5 to 30	60	50

^(a) Decreases with the logarithm of the frequency.

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

2) Test Configuration

Setup according to ANSI C63.10:2020, Section 6.2.

Please refer to the attached test photos for the actual connection between the EUT and the supporting equipment.

3) Test Procedure

1. The EUT is placed on a wooden table 80 cm above the reference ground plane.
2. The EUT is connected via LISN to a test power supply.
3. The measurement results are obtained as described below:
4. Measurement types: Quasi Peak and Average Measurement Type

9. TEST RESULT

9.1 Operating environment

Temperature : 24 °C
Relative humidity : 52 % R.H.

9.2 Test Date

January 23, 2026 ~ February 10, 2026

9.3 Duty Cycle

9.3.1 Test data

Mode	Tx On Time [ms]	Tx Off Time [ms]	Duty Cycle [%]	Correction Factor [dB]
Bluetooth LE [1 Mbps]	2.161	0.338	86.46	0.63
Bluetooth LE [2 Mbps]	1.119	0.756	59.70	2.24

9.4 Minimum 6 dB Bandwidth

Margin = Limit – Measured Value

9.4.1 Test data

Mode	Channel	Frequency (MHz)	Measured Value (kHz)	Limit (kHz)	Margin (dB)
Bluetooth LE [1 Mbps]	0	2 402.00	685.06	500.00	185.06
	19	2 440.00	685.06	500.00	185.06
	39	2 480.00	685.06	500.00	185.06
Bluetooth LE [2 Mbps]	0	2 402.00	1 129.98	500.00	629.98
	19	2 440.00	1 130.24	500.00	630.24
	39	2 480.00	1 140.22	500.00	640.22

9.5 Maximum Peak Output Power

Margin = Limit – Measured Value (=Receiver Reading + Cable Loss)

Margin = Limit – EIRP(=Measured Value + Antenna Gain)

9.5.1 Test data

Mode	Channel	Frequency (MHz)	Measured Value (dBm)	Limit (dBm)	Margin (dB)
Bluetooth LE [1 Mbps]	0	2 402.00	5.59	30.00	24.41
	19	2 440.00	5.62	30.00	24.38
	39	2 480.00	5.88	30.00	24.12
Bluetooth LE [2 Mbps]	0	2 402.00	5.62	30.00	24.38
	19	2 440.00	5.66	30.00	24.34
	39	2 480.00	5.91	30.00	24.09

9.6 Power Spectral Density

Margin = Limit – Measured Value (=Receiver Reading + Cable Loss)

9.6.1 Test data

Mode	Channel	Frequency (MHz)	Measured Value (dBm)	Limit (dBm)	Margin (dB)
Bluetooth LE [1 Mbps]	0	2 402.00	-9.09	8.00	17.09
	19	2 440.00	-9.02	8.00	17.02
	39	2 480.00	-8.80	8.00	16.80
Bluetooth LE [2 Mbps]	0	2 402.00	-7.53	8.00	15.53
	19	2 440.00	-7.48	8.00	15.48
	39	2 480.00	-7.31	8.00	15.31

9.7 100 kHz Bandwidth Outside the Frequency Band

For Test data for conducted emission, please refer to the Annex.

9.8 Radiated Spurious Emissions

9.8.1 Frequency Range: Below 30 MHz

Frequency (MHz)	Reading (dBμV)	Ant. Pol. (H/V)	Ant. Height (m)	Angle (°)	Ant. Factor (dB/m)	Cable Loss	Emission Level(dBμV/m)	Limits (dBμV/m)	Margin (dB)
No Critical peaks found									

-. Resolution bandwidth : 200 Hz (from 9 kHz to 0.15 MHz), 9 kHz (from 0.15 MHz to 30 MHz)

-. Frequency range : 9 kHz ~ 30 MHz

-. Measurement distance : 3 m

Note:

1. The Measured Value of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
2. Distance extrapolation factor = $40\log(\text{specific distance} / \text{test distance})$ (dB)
3. Limit line = specific Limits (dBμV) + Distance extrapolation factor

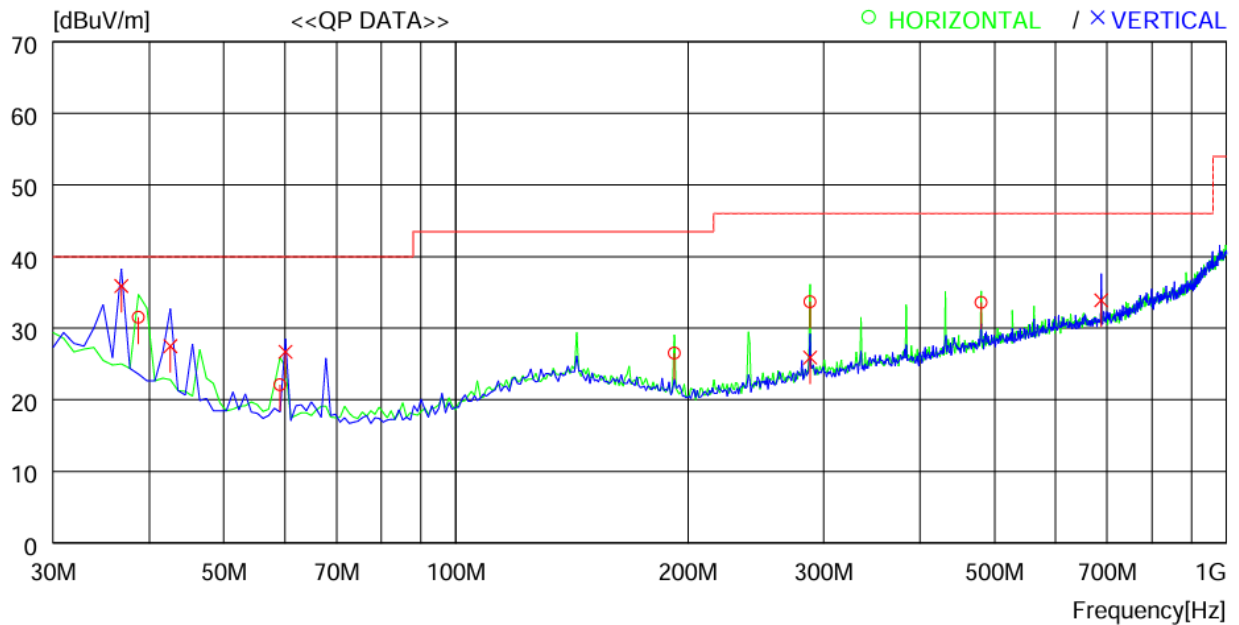
9.8.2 Frequency Range: Below 1 GHz

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.247

Result : PASSED

EUT : GPS Golf Watch

Detector : CISPR Quasi-Peak (6 dB Bandwidth: 120 kHz)



No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	FACTOR	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	38.730	45.1	17.5	0.9	32.0	31.5	40.0	8.5	196	132
2	59.100	40.5	12.4	1.2	32.0	22.1	40.0	17.9	211	122
3	191.990	40.6	16.0	1.9	32.0	26.5	43.5	17.0	205	122
4	288.020	44.3	19.0	2.4	32.0	33.7	46.0	12.3	138	279
5	480.081	39.9	22.7	3.2	32.2	33.6	46.0	12.4	240	359
----- Vertical -----										
6	36.790	48.6	18.5	0.8	32.0	35.9	40.0	4.1	315	359
7	42.610	42.6	15.9	1.0	32.0	27.5	40.0	12.5	305	158
8	60.070	45.2	12.3	1.2	32.0	26.7	40.0	13.3	200	0
9	288.020	36.5	19.0	2.4	32.0	25.9	46.0	20.1	400	0
10	687.655	36.8	25.4	4.0	32.3	33.9	46.0	12.1	100	250

9.8.3 Frequency Range Above 1 GHz

- Remark: “H”: Horizontal, “V”: Vertical
- Margin (dB) = Limits (dB μ V/m) - Emission Level (dB μ V/m)
- D.F (dB) = Duty Factor(dB)

9.8.3.1 Test data

Channel	CH 0		Frequency(MHz)		2 402			Mode	1 Mbps	
Frequency (MHz)	Reading (dB μ V)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	D.F (dB)	Total (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)
4 802.620	48.94	Peak	H	31.30	16.30	42.62	0.00	53.92	74.00	20.08
4 804.770	37.39	Average	H	31.30	16.30	42.62	0.63	43.00	54.00	11.00
4 804.610	49.03	Peak	V	31.30	16.30	42.62	0.00	54.01	74.00	19.99
4 802.290	37.18	Average	V	31.30	16.30	42.62	0.63	42.79	54.00	11.21

Channel	CH 19		Frequency(MHz)		2 440			Mode	1 Mbps	
Frequency (MHz)	Reading (dB μ V)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	D.F (dB)	Total (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)
4 879.060	49.42	Peak	H	31.36	16.34	42.65	0.00	54.47	74.00	19.53
4 879.500	37.49	Average	H	31.36	16.34	42.65	0.63	43.17	54.00	10.83
4 881.060	48.38	Peak	V	31.36	16.34	42.65	0.00	53.43	74.00	20.57
4 879.720	37.65	Average	V	31.36	16.34	42.65	0.63	43.33	54.00	10.67

Channel	CH 39		Frequency(MHz)		2 480			Mode	1 Mbps	
Frequency (MHz)	Reading (dB μ V)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	D.F (dB)	Total (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)
4 958.900	48.85	Peak	H	31.54	16.27	42.68	0.00	53.98	74.00	20.02
4 962.440	36.96	Average	H	31.55	16.27	42.68	0.63	42.73	54.00	11.27
4 961.000	48.34	Peak	V	31.54	16.27	42.68	0.00	53.47	74.00	20.53
4 959.660	37.31	Average	V	31.54	16.27	42.68	0.63	43.07	54.00	10.93

Channel	CH 0		Frequency(MHz)		2 402			Mode	2 Mbps	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
4 805.320	48.47	Peak	H	31.30	10.87	42.62	0.00	48.02	74.00	25.98
4 800.310	37.46	Average	H	31.30	10.87	42.62	2.24	39.25	54.00	14.75
4 805.300	49.04	Peak	V	31.30	10.87	42.62	0.00	48.59	74.00	25.41
4 805.010	37.36	Average	V	31.30	10.87	42.62	2.24	39.15	54.00	14.85

Channel	CH 19		Frequency(MHz)		2 440			Mode	2 Mbps	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
4 881.700	49.16	Peak	H	31.36	10.91	42.65	0.00	48.78	74.00	25.22
4 877.030	37.66	Average	H	31.35	10.91	42.65	2.24	39.51	54.00	14.49
4 882.930	48.78	Peak	V	31.37	10.91	42.65	0.00	48.41	74.00	25.59
4 878.320	37.73	Average	V	31.36	10.91	42.65	2.24	39.59	54.00	14.41

Channel	CH 39		Frequency(MHz)		2 480			Mode	2 Mbps	
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	D.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
4 957.600	48.73	Peak	H	31.53	10.84	42.67	0.00	48.43	74.00	25.57
4 960.230	37.21	Average	H	31.54	10.84	42.68	2.24	39.15	54.00	14.85
4 959.340	48.56	Peak	V	31.54	10.84	42.68	0.00	48.26	74.00	25.74
4 959.610	37.43	Average	V	31.54	10.84	42.68	2.24	39.37	54.00	14.63

9.9 Radiated Restricted Band Edge

- Remark: “H”: Horizontal, “V”: Vertical
- Margin (dB) = Limits (dB μ V/m) - Emission Level (dB μ V/m)
- D.F (dB) = Duty Factor(dB)

9.9.1 Test data

Channel	CH 0		Frequency(MHz)			2 402			Mode	1 Mbps	
Frequency (MHz)	Reading (dB μ V)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	D.F (dB)	Total (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)
2 377.78	53.72	Peak	H	27.44	8.79	42.36	10.28	0.00	57.87	74.00	16.13
2 333.02	41.92	Average	H	27.57	8.62	42.35	10.28	0.63	46.67	54.00	7.33
2 333.57	55.39	Peak	V	27.57	8.62	42.35	10.28	0.00	59.51	74.00	14.49
2 365.65	41.87	Average	V	27.47	8.79	42.36	10.28	0.63	46.68	54.00	7.32

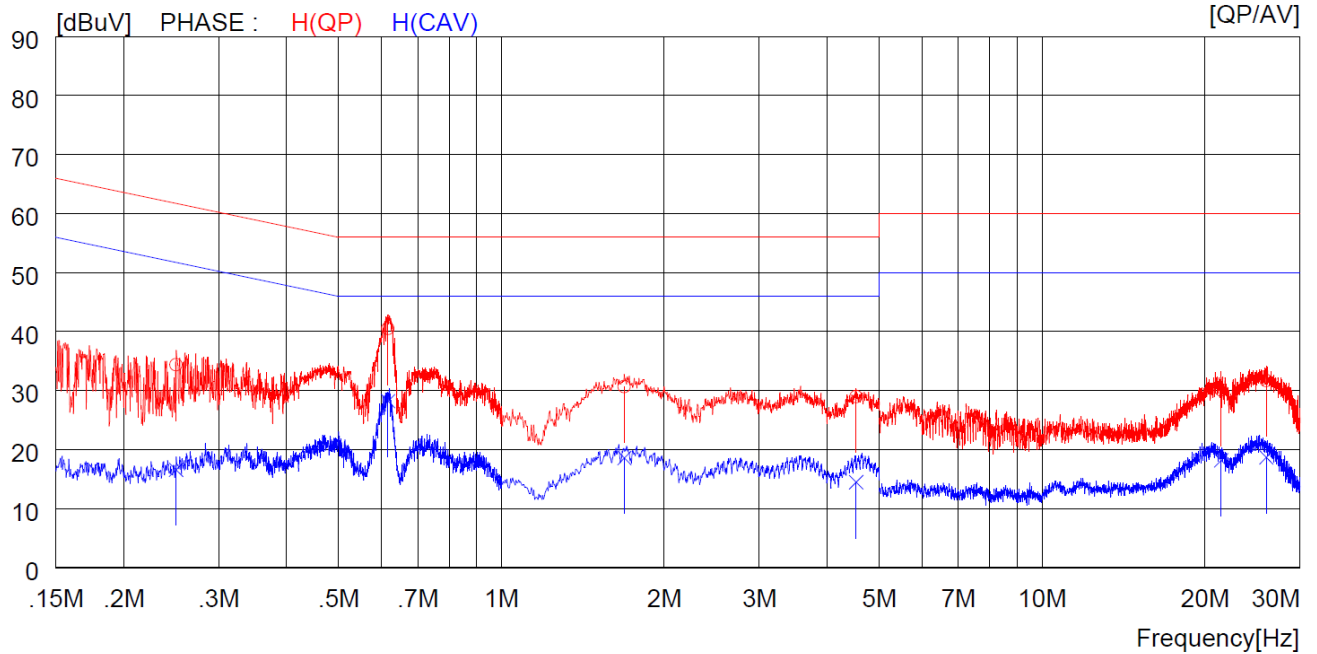
Channel	CH 39		Frequency(MHz)			2 480			Mode	1 Mbps	
Frequency (MHz)	Reading (dB μ V)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	D.F (dB)	Total (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)
2 491.82	53.58	Peak	H	27.40	9.01	42.40	10.28	0.00	57.87	74.00	16.13
2 492.70	42.07	Average	H	27.40	9.01	42.40	10.28	0.63	46.99	54.00	7.01
2 483.79	58.06	Peak	V	27.40	9.01	42.39	10.28	0.00	62.36	74.00	11.64
2 488.58	41.79	Average	V	27.40	9.01	42.40	10.28	0.63	46.71	54.00	7.29

Channel	CH 0		Frequency(MHz)			2 402			Mode	2 Mbps	
Frequency (MHz)	Reading (dB μ V)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	D.F (dB)	Total (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)
2 382.56	55.69	Peak	H	27.43	7.68	42.36	10.28	0.00	58.72	74.00	15.28
2 385.14	43.76	Average	H	27.43	7.68	42.36	10.28	2.24	49.03	54.00	4.97
2 321.63	53.95	Peak	V	27.61	7.51	42.34	10.28	0.00	57.01	74.00	16.99
2 386.51	42.12	Average	V	27.43	7.68	42.36	10.28	2.24	47.39	54.00	6.61

Channel	CH 39		Frequency(MHz)			2 480			Mode	2 Mbps	
Frequency (MHz)	Reading (dB μ V)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	D.F (dB)	Total (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)
2 493.12	54.72	Peak	H	27.40	7.86	42.40	10.28	0.00	57.86	74.00	16.14
2 491.94	43.08	Average	H	27.40	7.86	42.40	10.28	2.24	48.46	54.00	5.54
2 491.12	53.55	Peak	V	27.40	7.86	42.40	10.28	0.00	56.69	74.00	17.31
2 498.97	42.43	Average	V	27.40	7.86	42.40	10.28	2.24	47.81	54.00	6.19

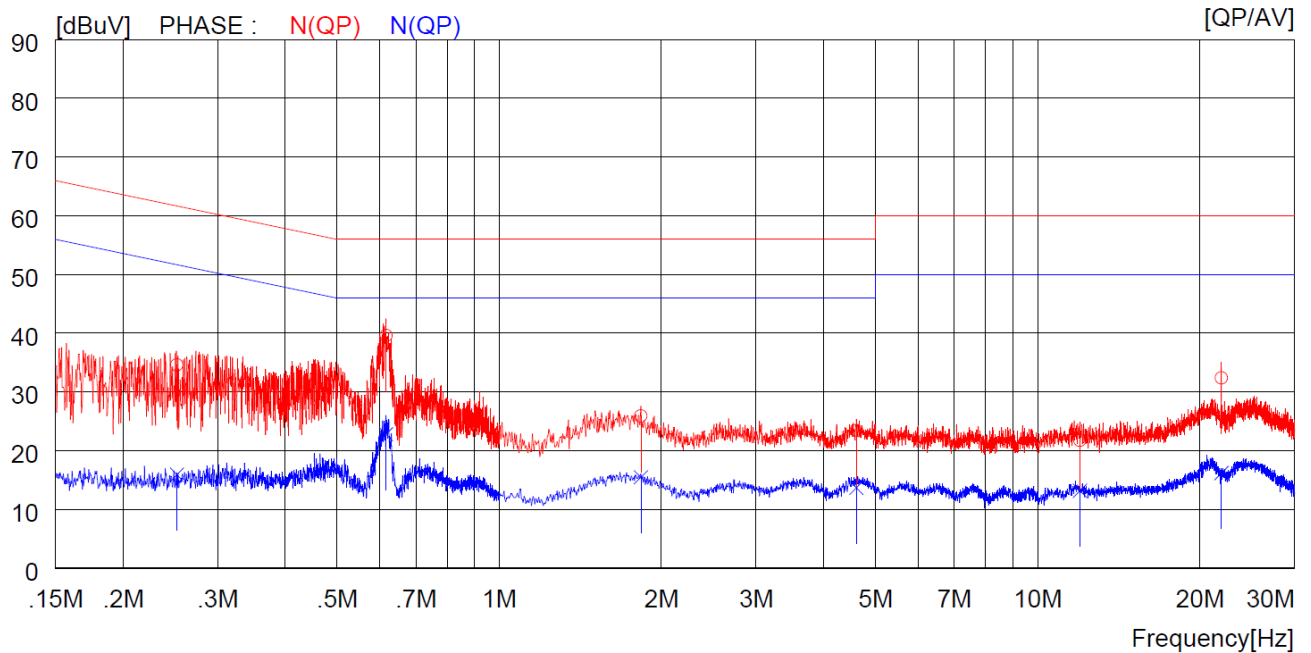
9.10 AC Power line Conducted Emissions

-. Tested Line : HOT LINE



NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.25000	24.4	----	10.0	34.4	----	61.8	----	27.4	----	H (QP)
2	0.61700	30.5	----	10.0	40.5	----	56.0	----	15.5	----	H (QP)
3	1.68800	20.6	----	10.1	30.7	----	56.0	----	25.3	----	H (QP)
4	4.53200	18.9	----	10.1	29.0	----	56.0	----	27.0	----	H (QP)
5	21.46000	19.5	----	10.6	30.1	----	60.0	----	29.9	----	H (QP)
6	25.99000	20.9	----	10.8	31.7	----	60.0	----	28.3	----	H (QP)
7	0.25000	----	6.6	10.0	----	16.6	----	51.8	----	35.2	H (CAV)
8	0.61700	----	18.2	10.0	----	28.2	----	46.0	----	17.8	H (CAV)
9	1.68800	----	8.5	10.1	----	18.6	----	46.0	----	27.4	H (CAV)
10	4.53200	----	4.4	10.1	----	14.5	----	46.0	----	31.5	H (CAV)
11	21.46000	----	7.6	10.6	----	18.2	----	50.0	----	31.8	H (CAV)
12	25.99000	----	7.9	10.8	----	18.7	----	50.0	----	31.3	H (CAV)

-. Tested Line : NEUTRAL LINE



NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.25200	24.6	----	10.0	34.6	----	61.7	----	27.1	----	N (QP)
2	0.61600	29.6	----	10.0	39.6	----	56.0	----	16.4	----	N (QP)
3	1.83200	15.8	----	10.1	25.9	----	56.0	----	30.1	----	N (QP)
4	4.60400	13.2	----	10.2	23.4	----	56.0	----	32.6	----	N (QP)
5	11.98000	11.4	----	10.4	21.8	----	60.0	----	38.2	----	N (QP)
6	21.93000	21.7	----	10.7	32.4	----	60.0	----	27.6	----	N (QP)
7	0.25200	----	5.9	10.0	----	15.9	----	51.7	----	35.8	N (CAV)
8	0.61600	----	12.8	10.0	----	22.8	----	46.0	----	23.2	N (CAV)
9	1.83200	----	5.4	10.1	----	15.5	----	46.0	----	30.5	N (CAV)
10	4.60400	----	3.5	10.2	----	13.7	----	46.0	----	32.3	N (CAV)
11	11.98000	----	2.8	10.4	----	13.2	----	50.0	----	36.8	N (CAV)
12	21.93000	----	5.5	10.7	----	16.2	----	50.0	----	33.8	N (CAV)

Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.