RF Test Report

For

Applicant name:	**Ningbo Daxie Development Zone Shangfei Container Co., Ltd.**
Address:	Building 2, No. 3 Lichang Road, Daxie Development Zone, Ningbo, Zhejiang Province, China
EUT name:	wireless charging gunsafe box
Brand name:	N/A
Model number:	SFWC001
Series model number:	N/A
FCC ID:	2BYCY-SFWC001

Issued By

Company name:	**BTF Testing Lab (Shenzhen) Co., Ltd.**
Address:	Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China
Report number:	BTF260828R00402
Test standards:	47 CFR Part 15.247
Test conclusion:	Pass
Date of sample receipt:	2026-08-28
Test date:	2026-08-28 to 2026-09-14
Date of issue:	2026-09-18

Prepared by: Zero Zeng / Project engineer

Approved by: Ryan.CJ / EMC Manager

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Revision History		
Version	Issue Date	Revisions Content
R_V0	2026-09-18	Original

Note:
Once the revision has been made, then previous versions reports are invalid.

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1 Introduction

1.1 Laboratory Location

Test location:	BTF Testing Lab (Shenzhen) Co., Ltd.
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Phone number:	+86-0755-23146130
Fax number:	+86-0755-23146130

1.2 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC - Designation No.: CN1409**
  BTF Testing Lab (Shenzhen) Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The test firm Registration No. is 695374.
- **CNAS - Registration No.: CNAS L17568**
  BTF Testing Lab (Shenzhen) Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L17568.
- **A2LA - Registration No.: 6660.01**
  BTF Testing Lab (Shenzhen) Co., Ltd. is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.
- **ISED – CAB identifier.: CN0135**
  The 3m Semi-anechoic chamber of BTF Testing Lab (Shenzhen) Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 27844.

1.3 Announcement

(1) The test report reference to the report template version v0.
(2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
(3) The test report is invalid if there is any evidence and/or falsification.
(4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
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(7) All entrusted information in this report is provided by the client and has been confirmed through consultation with the client; The testing items for this report have been discussed and confirmed with the client, and our company is only responsible for the content reflected in the report.

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2 Product Information

2.1 Application Information

Company name:	Ningbo Daxie Development Zone Shangfei Container Co., Ltd.
Address:	Building 2, No. 3 Lichang Road, Daxie Development Zone, Ningbo, Zhejiang Province, China

2.2 Manufacturer Information

Company name:	Ningbo Daxie Development Zone Shangfei Container Co., Ltd.
Address:	Building 2, No. 3 Lichang Road, Daxie Development Zone, Ningbo, Zhejiang Province, China

2.3 Factory Information

Company name:	Ningbo Daxie Development Zone Shangfei Container Co., Ltd.
Address:	Building 2, No. 3 Lichang Road, Daxie Development Zone, Ningbo, Zhejiang Province, China

2.4 General Description of Equipment under Test (EUT)

EUT name:	wireless charging gunsafe box
Under test model name:	SFWC001
Series model name:	N/A
Description of model name differentiation:	N/A
Software version:	C4 V0.3
Ratings:	Input: AC 100-240V 1.5A Output: DC 24V 2A

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2.5 Technical Information

Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz
Channel numbers:	802.11b/g/n(HT20): 11 Channels
Channel separation:	5MHz
Modulation technology:	802.11b: DSSS(CCK, DQPSK, DBPSK); 802.11g: OFDM(BPSK, QPSK, 16QAM, 64QAM); 802.11n(HT20): OFDM (BPSK, QPSK, 16QAM, 64QAM)
Maximum Conducted Power:	12.29dBm
Antenna type:	Internal Antenna
Antenna gain:	2.45dBi

Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	5	2432	9	2452
2	2417	6	2437	10	2457
3	2422	7	2442	11	2462
4	2427	8	2447	/	/

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3 Summary of Test Results

3.1 Test Standards

The tests were performed according to following standards:
47 CFR Part 15.247: Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz
KDB 558074 D01 15.247 Meas Guidance v05r02: Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating Under Section 15.247 of The FCC Rules.

3.2 Uncertainty of Test

Measurement	Value
Conducted Emission for LISN (150kHz ~ 30MHz)	±2.45 dB
Occupied Channel Bandwidth	±173.1Hz
RF output power, conducted	±0.66 dB
Power Spectral Density, conducted	±3.0 dB
Unwanted Emissions, conducted	±2.32 dB
Radiated Emission(1GHz~18GHz)	±4.80 dB
Radiated Emission(9kHz~30MHz)	±2.20 dB
Radiated Emission(30MHz~1GHz)	±4.94 dB
Radiated Emission (18GHz ~ 40GHz)	±5.08dB
The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3.3 Summary of Test Result

Item	Standard	Requirement	Result
Antenna requirement	47 CFR Part 15.247	47 CFR 15.203	Pass
Conducted Emission at AC power line	47 CFR Part 15.247	47 CFR 15.207(a)	Pass
6dB Bandwidth	47 CFR Part 15.247	47 CFR 15.247(a)(2)	Pass
Maximum Conducted Output Power	47 CFR Part 15.247	47 CFR 15.247(b)(3)	Pass
Power Spectral Density	47 CFR Part 15.247	47 CFR 15.247(e)	Pass
Emissions in non-restricted frequency bands	47 CFR Part 15.247	47 CFR 15.247(d)	Pass
Band edge emissions (Radiated)	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass
Emissions in frequency bands (below 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass
Emissions in frequency bands (above 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass
Remark: *1. Pass: Meet the requirements.* *2. N/A: not applicable.*			

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3.4 Additions to, deviations, or exclusions from the method

None

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4 Test Configuration

4.1 Test Equipment List

Conducted Emission at AC power line					
Test Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Test Software	Frad	EZ_EMC	Version: EMC-CON 3A1.1+	/	/
EMI Receiver	Rohde & Schwarz	ESCI3	101422	2025-10-17	2026-10-16
V-LISN	Schwarzbeck	NSLK 8127	01073	2026-08-17	2027-08-16
Coaxial Switcher	Schwarzbeck	CX210	CX210	/	/
Pulse Limiter	Schwarzbeck	VTSD 9561-F	00953	/	/
LISN-Cable	REBES Talent	LISN9K30M	21101580	2026-08-17	2027-08-16
ISN	SCHWARZBECK	NTFM 8158	00631	2026-08-17	2027-08-16
LV DC LISN	MTRAC	PWL-5-200	2673	2026-08-17	2027-08-16
LV DC LISN	MTRAC	PWL-5-200	2674	2026-08-17	2027-08-16

6dB Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in non-restricted frequency bands					
Test Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Test Software	TST Pass	/	Version: 2.0	/	/
Cell Site Test Set	HP	8921A	US35010158	2025-10-17	2026-10-16
Spectrum Analyzer	Keysight	N9020A	MY50410020	2025-10-17	2026-10-16
ESG Vector Signal Generator	Agilent	E4438C	MY45094854	2025-10-17	2026-10-16
MXG Vector Signal Generator	Agilent	N5182A	MY46240163	2025-10-17	2026-10-16
Wideband Radio Communication Tester	Rohde&Schwarz	CMW500	161997	2025-10-17	2026-10-16
Programmable Constant Temperature And Humidity Test Chamber	ZZCKONG	ZZ-K02A	20210928007	2025-10-17	2026-10-16
DC Power Supply	Tongmen	etm-6050c	20211026123	2025-10-17	2026-10-16
RF Control Unit	Techy	TR1029-1	10291	2025-10-17	2026-10-16
RF Sensor Unit	Techy	TR1029-2	10292	2025-10-17	2026-10-16
RF shielding box	Yinuoxin Electronics	50*50*50 cm	050505M	2025-10-21	2026-10-20

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Band edge emissions (Radiated) Emissions in frequency bands (below 1GHz) Emissions in frequency bands (above 1GHz)					
Test Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Test Software	Frad	EZ_EMC	Version: FA-03A2 RE+	/	/
EMI Receiver	Rohde & Schwarz	ESCI7	101032	2025-10-17	2026-10-16
Signal Analyzer	Rohde & Schwarz	FSQ40	100010	2025-10-17	2026-10-16
Log periodic antenna	Schwarzbeck	VULB 9168	01328	2025-10-18	2026-10-17
Preamplifier (9kHz ~ 6GHz)	Schwarzbeck	BBV9744	00246	2026-05-10	2027-05-09
BELOW-Cable	REBES Talent	9K1G	21101576	2026-08-17	2027-08-16
Horn Antenna	Schwarzbeck	BBHA9120D	2597	2025-10-18	2026-10-17
Preamplifier (1GHz ~ 18GHz)	Schwarzbeck	BBV9718D	00008	2025-10-18	2026-10-17
Preamplifier	TSTPASS	LNA10180G45	TS2215007	2026-05-10	2027-05-09
ABOVE-Cable	REBES Talent	1~18G	21101558	2026-08-17	2027-08-16
Horn Antenna	SCHWARZBECK	BBHA9170	1157	2025-10-18	2026-10-17
Low Noise Pre-amplifier	Sket	LNPA_1840G-50	SK2022032902	2025-10-17	2026-10-16
ABOVE-Cable2	REBES Talent	18~40G	21101686	2026-08-18	2027-08-17
ABOVE-Cable1	REBES Talent	18~40G	21101687	2026-08-18	2027-08-17
Filter	COM-MW	ZBSF6-M2400-2483.5-2990	08226825	2025-10-18	2026-10-17
Active Loop Antenna	TONSCEND	LOP32-30	806LOP000507261003	2026-08-18	2027-08-17
ABOVE Cable1-40G	REBES Talent	AA210B0009M3030Z	BUAO1E9090	2026-08-18	2027-08-17

4.2 Test Auxiliary Equipment

No.	Description	Manufacturer	Model	Serial Number	Certification
1	Wireless load	YBZ	F18	/	

4.3 Test Modes

No.	Test Modes
TM1	802.11b mode
TM2	802.11g mode
TM3	802.11n(HT20) mode

4.4 Test Channel of EUT

Operation Band: 2400-2483.5 MHz

Bandwidth (MHz)	Lowest Channel (LCH) (MHz)	Middle Channel (MCH) (MHz)	Highest Channel (HCH) (MHz)
20	2412	2437	2462

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4.5 Test software

Test software:	Version:	Power Class:
UI_mptool for AmebaZ2	1v0	802.11b: 65 802.11g: 75 802.11n: 75

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5 Evaluation Results (Evaluation)

5.1 Antenna requirement

Test Requirement:	Refer to 47 CFR Part 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. 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.
Test Method:	---
Operating Environment:	
Temperature:	22.4 °C
Humidity:	50.4 %
Atmospheric Pressure:	1010 mbar
Test voltage:	AC 120V 60Hz

5.1.1 Conclusion

The antenna is an Internal antenna which permanently attached, and the best case gain of the antenna is 2.45dBi. See product internal photos for details.

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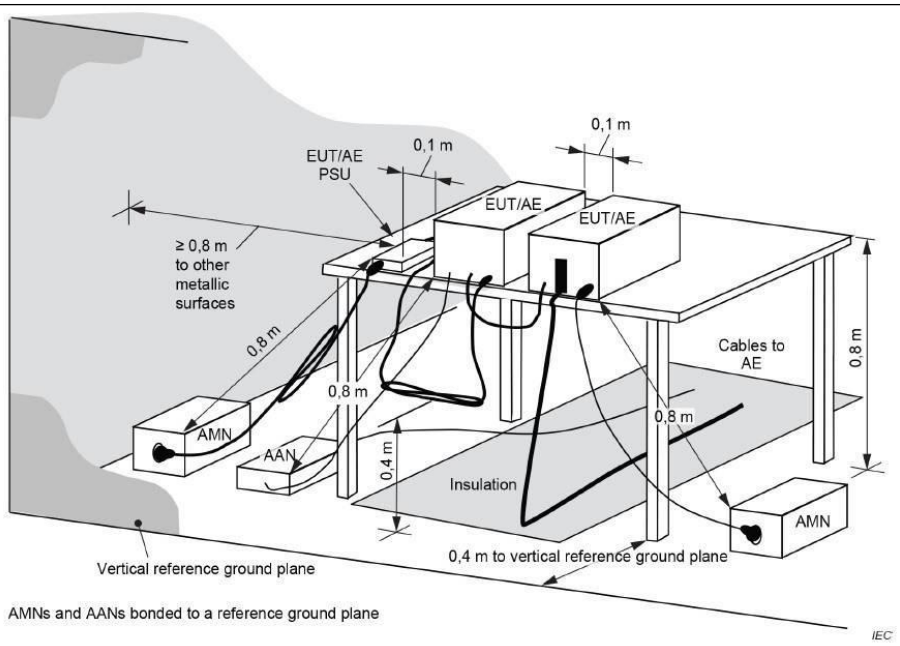
6 Radio Spectrum Matter Test Results (RF)

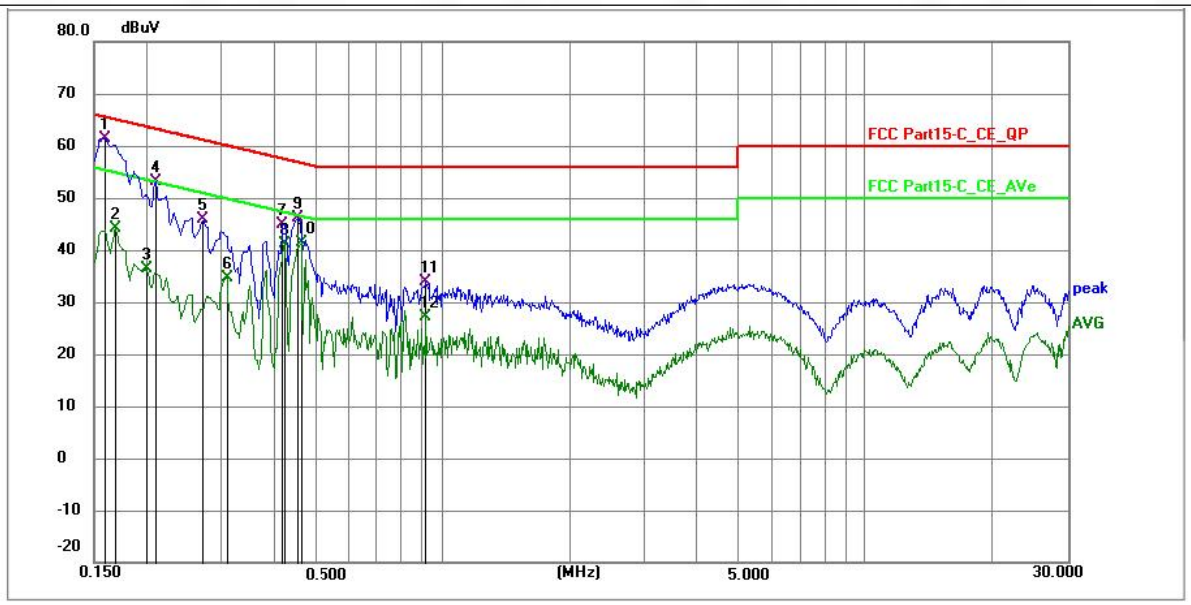
6.1 Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b)and (c)of this section, 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 μH/50 ohms line impedance stabilization network (LISN).
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.2
Test Limit:	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 *Decreases with the logarithm of the frequency.
Procedure:	Refer to ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices
Test Setup:	
Operating Environment:	
Temperature:	24.7 °C
Humidity:	47.5 %
Atmospheric Pressure:	1010 mbar
Test voltage:	AC 120V 60Hz

6.1.1 Test Data

Remark: The report only reflects the test data of worst mode.

TM1 / Line: Line / Band: 2400-2483.5 MHz / BW: 20 / CH: M



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1 *	0.1590	51.32	10.16	61.48	65.52	-4.04	QP	P	
2	0.1680	33.95	10.21	44.16	55.06	-10.90	AVG	P	
3	0.1995	26.29	10.14	36.43	53.63	-17.20	AVG	P	
4	0.2084	42.93	10.12	53.05	63.27	-10.22	QP	P	
5	0.2714	35.85	10.09	45.94	61.07	-15.13	QP	P	
6	0.3074	24.51	10.13	34.64	50.04	-15.40	AVG	P	
7	0.4154	34.89	10.09	44.98	57.54	-12.56	QP	P	
8	0.4200	30.97	10.10	41.07	47.45	-6.38	AVG	P	
9	0.4515	36.01	10.11	46.12	56.85	-10.73	QP	P	
10	0.4605	31.29	10.11	41.40	46.68	-5.28	AVG	P	
11	0.9150	23.63	10.13	33.76	56.00	-22.24	QP	P	
12	0.9150	16.92	10.13	27.05	46.00	-18.95	AVG	P	

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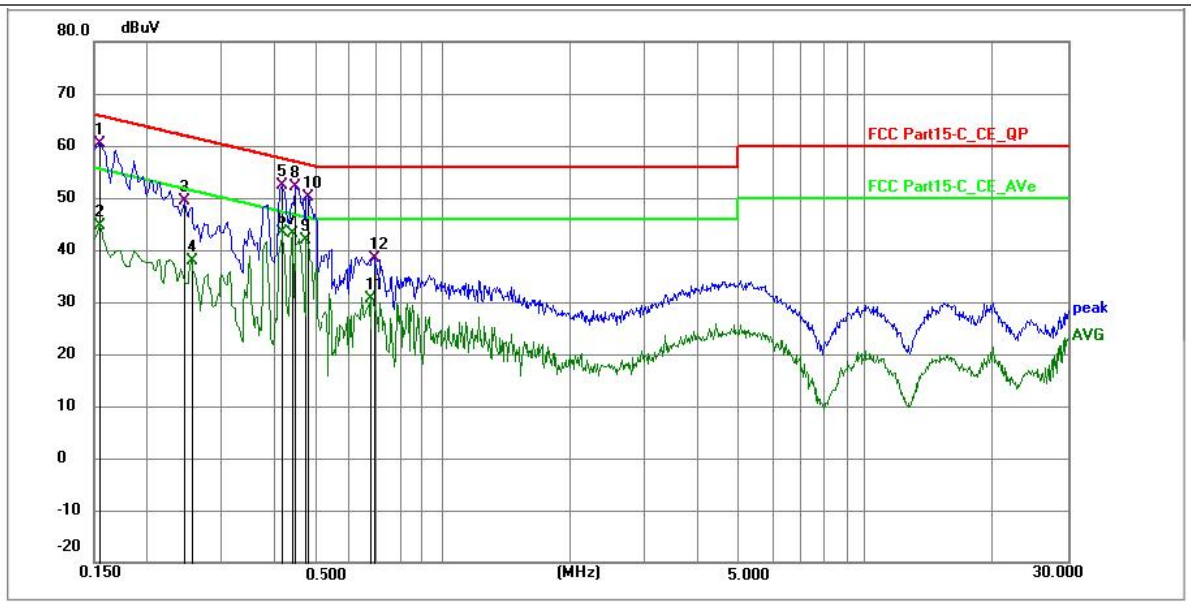
TM1 / Line: Neutral / Band: 2400-2483.5 MHz / BW: 20 / CH: M



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1544	50.34	10.12	60.46	65.76	-5.30	QP	P	
2	0.1544	34.62	10.12	44.74	55.76	-11.02	AVG	P	
3	0.2444	39.26	10.12	49.38	61.95	-12.57	QP	P	
4	0.2535	27.82	10.12	37.94	51.64	-13.70	AVG	P	
5	0.4153	42.19	10.13	52.32	57.54	-5.22	QP	P	
6	0.4153	33.15	10.13	43.28	47.54	-4.26	AVG	P	
7 *	0.4380	33.00	10.13	43.13	47.10	-3.97	AVG	P	
8	0.4470	41.93	10.13	52.06	56.93	-4.87	QP	P	
9	0.4740	31.68	10.14	41.82	46.44	-4.62	AVG	P	
10	0.4783	40.11	10.14	50.25	56.37	-6.12	QP	P	
11	0.6809	20.57	10.15	30.72	46.00	-15.28	AVG	P	
12	0.6900	28.21	10.15	38.36	56.00	-17.64	QP	P	

Note:Margin=Level-Limit=Reading+factor-Limit=Reading+LISN+Cable loss-Limit

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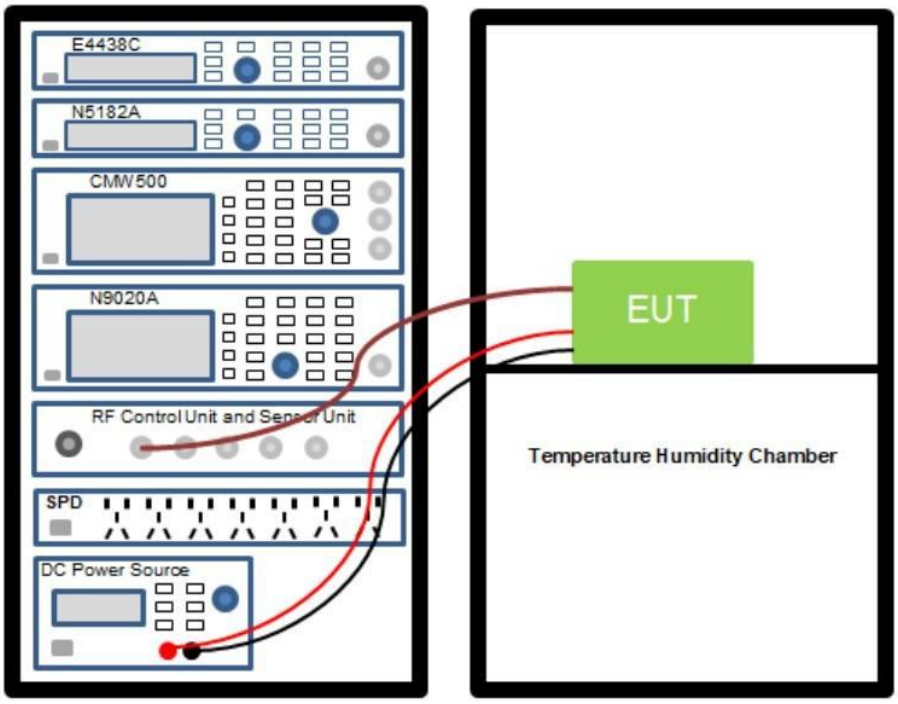
6.2 6dB Bandwidth

Test Requirement:	47 CFR 15.247(a)(2)
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02
Test Limit:	Refer to 47 CFR 15.247(a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Procedure:	11.8.1 Option 1 The steps for the first option are as follows: a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz. b) Set the VBW ≥ [3 × RBW]. c) Detector = peak. d) Trace mode = max-hold. e) Sweep = No faster than coupled (auto) time. f) Allow the trace to stabilize. g) 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. 11.8.2 Option 2 The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW ≥ 3 × RBW, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.
Test Setup:	

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Operating Environment:	
Temperature:	22.8 °C
Humidity:	48.3 %
Atmospheric Pressure:	1010 mbar
Test voltage:	AC 120V 60Hz

6.2.1 Test Data

Please Refer to Appendix for Details.

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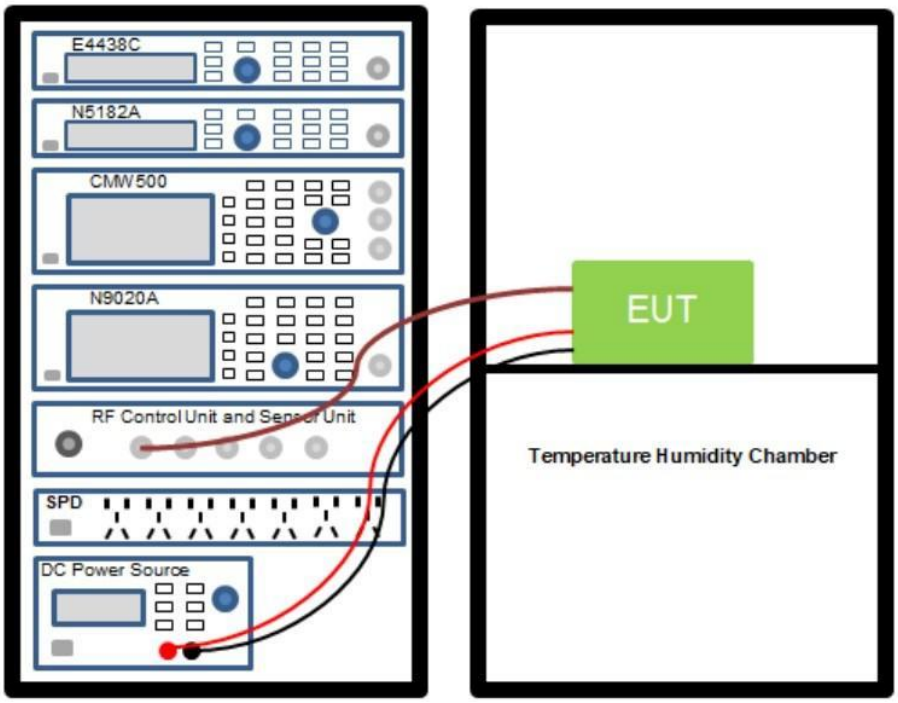
6.3 Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(3)
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 11.9.2 KDB 558074 D01 15.247 Meas Guidance v05r02
Test Limit:	Refer to 47 CFR 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. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Procedure:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, section 11.9.2 Maximum conducted (average) output power
Test Setup:	
Operating Environment:	
Temperature:	23.9 °C
Humidity:	48.5 %
Atmospheric Pressure:	1010 mbar
Test voltage:	AC 120V 60Hz

6.3.1 Test Data

Please Refer to Appendix for Details.

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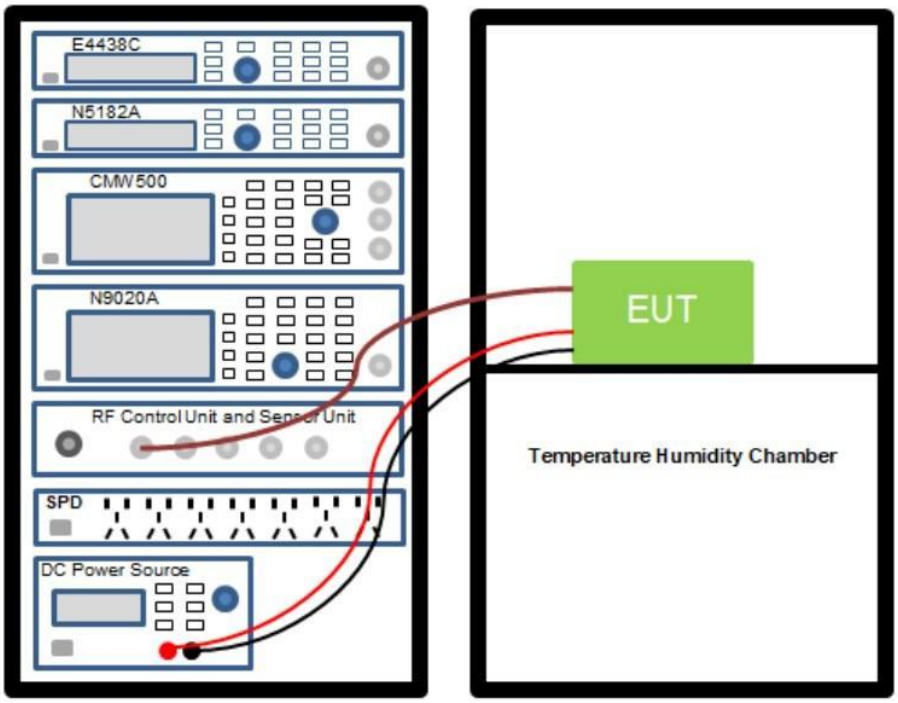
6.4 Power Spectral Density

Test Requirement:	47 CFR 15.247(e)
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02
Test Limit:	Refer to 47 CFR 15.247(e), For digitally modulated systems, 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. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Procedure:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, section 11.10, Maximum power spectral density level in the fundamental emission
Test Setup:	
Operating Environment:	
Temperature:	23.7 °C
Humidity:	50.8 %
Atmospheric Pressure:	1010 mbar
Test voltage:	AC 120V 60Hz

6.4.1 Test Data

Please Refer to Appendix for Details.

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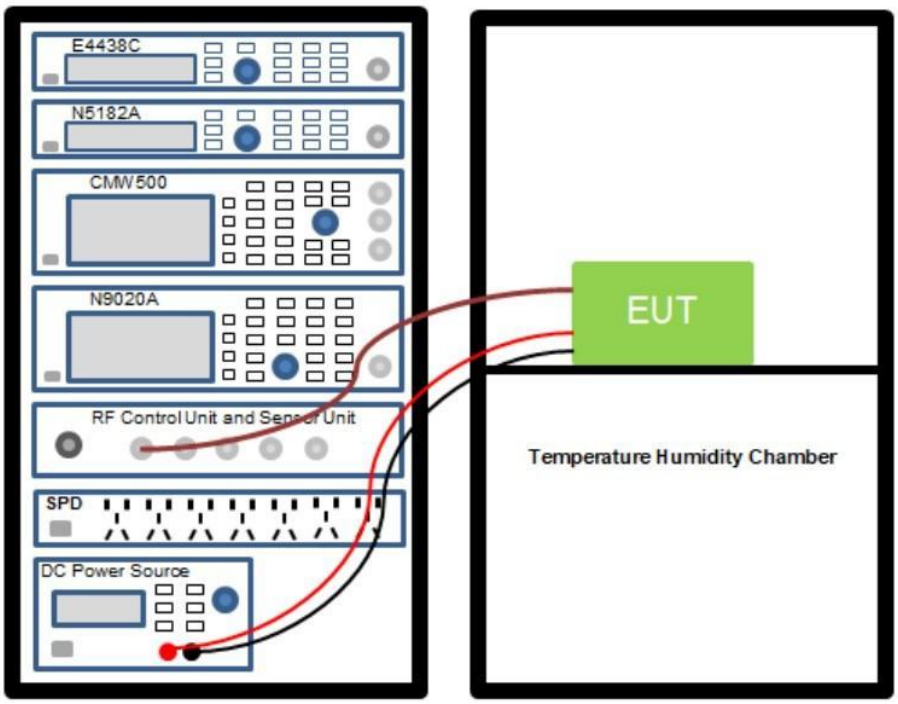
6.5 Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d)
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02
Test Limit:	Refer to 47 CFR 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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Procedure:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 Section 11.11.1, Section 11.11.2, Section 11.11.3
Test Setup:	
Operating Environment:	
Temperature:	23 °C
Humidity:	45.4 %
Atmospheric Pressure:	1010 mbar
Test voltage:	AC 120V 60Hz

6.5.1 Test Data

Please Refer to Appendix for Details.

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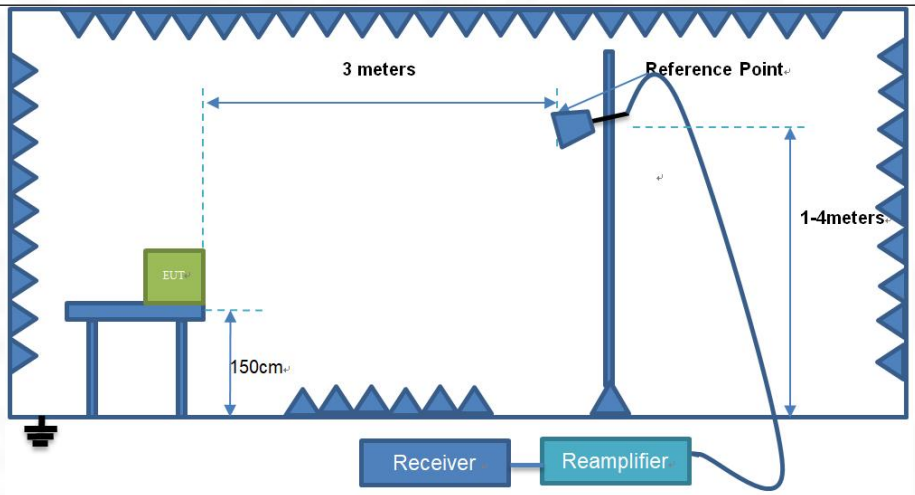
6.6 Band edge emissions (Radiated)

<table>
<tr><td>Test Requirement:</td><td>Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.10
KDB 558074 D01 15.247 Meas Guidance v05r02</td></tr>
<tr><td>Test Limit:</td><td><table>
<tr><td>Frequency (MHz)</td><td>Field strength (microvolts/meter)</td><td>Measurement distance (meters)</td></tr>
<tr><td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr>
<tr><td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr>
<tr><td>1.705-30.0</td><td>30</td><td>30</td></tr>
<tr><td>30-88</td><td>100 **</td><td>3</td></tr>
<tr><td>88-216</td><td>150 **</td><td>3</td></tr>
<tr><td>216-960</td><td>200 **</td><td>3</td></tr>
<tr><td>Above 960</td><td>500</td><td>3</td></tr>
</table>** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.
In the emission table above, the tighter limit applies at the band edges.
The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.</td></tr>
<tr><td>Procedure:</td><td>ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.10.5.2</td></tr>
<tr><td>Test Setup:</td><td> 
</td></tr>
<tr><td colspan="2">Operating Environment:</td></tr>
<tr><td>Temperature:</td><td>23.5 °C</td></tr>
<tr><td>Humidity:</td><td>48.6 %</td></tr>
<tr><td>Atmospheric Pressure:</td><td>1010 mbar</td></tr>
<tr><td>Test voltage:</td><td>AC 120V 60Hz</td></tr>
</table>

6.6.1 Test Data

Remark: The report only reflects the test data of worst mode.

Test Channel: Lowest channel, Test Polarization: Vertical							
Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Marging (dB)	Detector	Result
2310.00	51.02	3.85	54.88	74.00	-19.12	Peak	Pass
2310.00	40.70	3.85	44.55	54.00	-9.45	AVG	Pass
2390.00	52.15	3.91	56.06	74.00	-17.94	Peak	Pass
2390.00	42.04	3.91	45.96	54.00	-8.04	AVG	Pass
Test Channel: Lowest channel, Test Polarization: Horizontal							
Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Marging (dB)	Detector	Result
2310.00	52.26	3.85	56.11	74.00	-17.89	Peak	Pass
2310.00	42.00	3.85	45.85	54.00	-8.15	AVG	Pass
2390.00	52.93	3.91	56.85	74.00	-17.15	Peak	Pass
2390.00	43.25	3.91	47.17	54.00	-6.83	AVG	Pass
Test Channel: Highest channel, Test Polarization: Vertical							
Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Marging (dB)	Detector	Result
2483.50	51.36	3.99	55.35	74.00	-18.65	Peak	Pass
2483.50	41.49	3.99	45.48	54.00	-8.52	AVG	Pass
2500.00	51.45	4.00	55.45	74.00	-18.55	Peak	Pass
2500.00	41.38	4.00	45.38	54.00	-8.62	AVG	Pass
Test Channel: Highest channel, Test Polarization: Horizontal							
Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Marging (dB)	Detector	Result
2483.50	51.23	3.99	55.22	74.00	-18.78	Peak	Pass
2483.50	40.85	3.99	44.84	54.00	-9.16	AVG	Pass
2500.00	52.00	4.00	56.00	74.00	-18.00	Peak	Pass
2500.00	41.80	4.00	45.80	54.00	-8.20	AVG	Pass

Note:Margin=Level-Limit=Reading+factor-Limit=Reading+Antenna factor+ cable loss -Limit

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6.7 Emissions in frequency bands (below 1GHz)

Test Requirement:

Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).

Test Method:

ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.5.4
KDB 558074 D01 15.247 Meas Guidance v05r02

Test Limit:

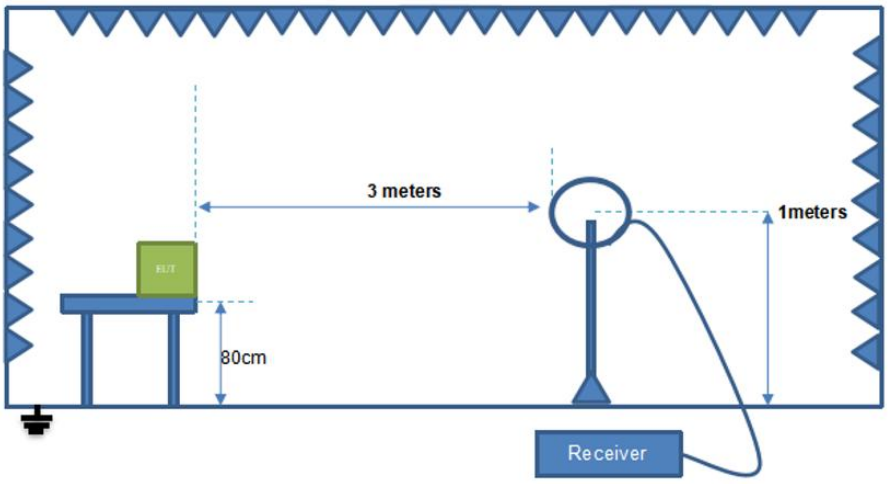
Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100 **	3
88-216	150 **	3
216-960	200 **	3
Above 960	500	3

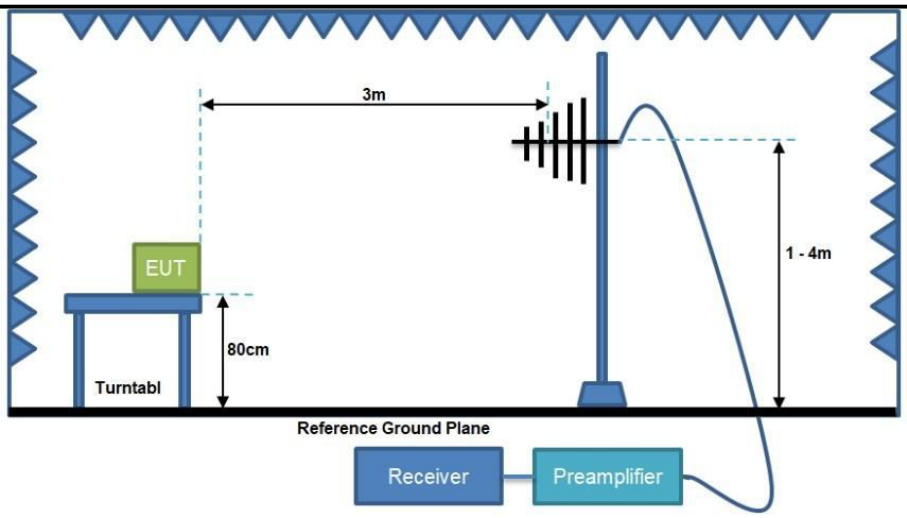
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.
In the emission table above, the tighter limit applies at the band edges.
The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

Procedure:

ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.5.4

Test Setup:



	
Operating Environment:	
Temperature:	25.5 °C
Humidity:	46.7 %
Atmospheric Pressure:	1010 mbar
Test voltage:	AC 120V 60Hz

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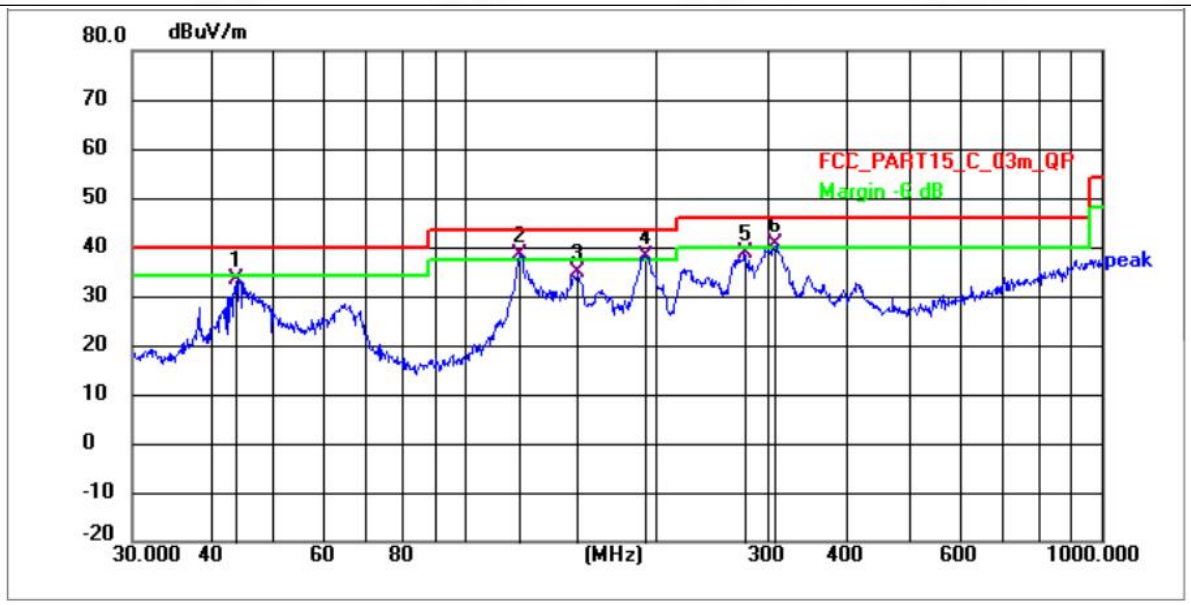
6.7.1 Test Data

Remark: The report only reflects the test data of worst mode (TM1)

(9KHz-30 MHz)
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
Distance extrapolation factor =40 log (specific distance/test distance)(dB);
Limit line = specific limits (dBuv) + distance extrapolation factor.

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	43.8888	42.54	-9.14	33.40	40.00	-6.60	QP	Pass
2 *	121.7619	47.50	-9.27	38.23	43.50	-5.27	QP	Pass
3	150.5378	43.31	-8.41	34.90	43.50	-8.60	QP	Pass
4 !	191.4091	49.31	-11.11	38.20	43.50	-5.30	QP	Pass
5	274.1939	47.20	-8.29	38.91	46.00	-7.09	QP	Pass
6 !	308.3715	46.79	-6.21	40.58	46.00	-5.42	QP	Pass

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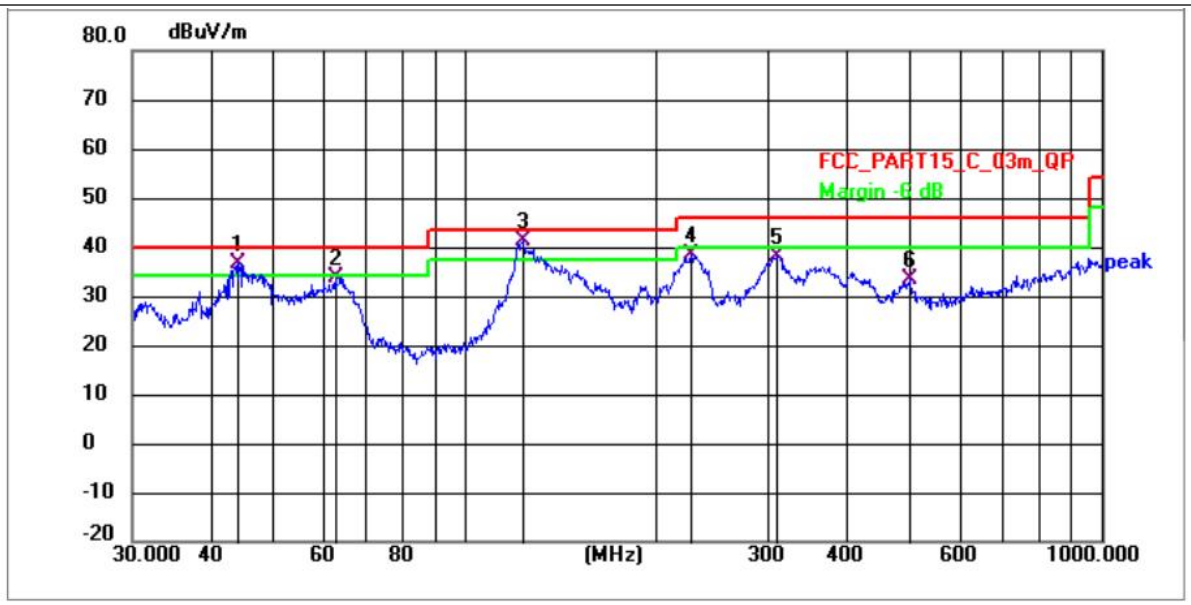
TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 !	43.8887	45.63	-9.14	36.49	40.00	-3.51	QP	Pass
2	62.5410	44.94	-11.11	33.83	40.00	-6.17	QP	Pass
3 *	123.4818	50.64	-9.34	41.30	43.50	-2.20	QP	Pass
4	225.3080	48.42	-10.04	38.38	46.00	-7.62	QP	Pass
5	309.9977	44.40	-6.33	38.07	46.00	-7.93	QP	Pass
6	498.5498	34.84	-1.47	33.37	46.00	-12.63	QP	Pass

Note:Margin=Level-Limit=Reading+factor-Limit=Reading+Antenna factor+ cable loss -amplifier gain-Limit

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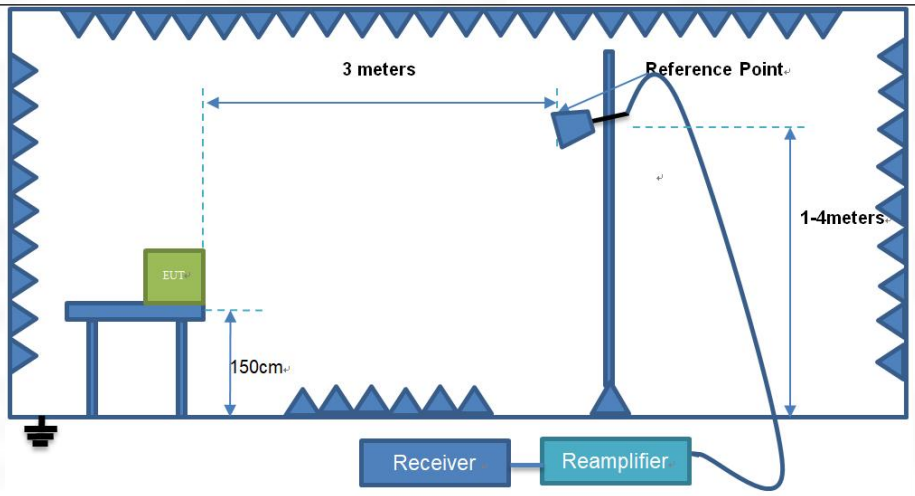
6.8 Emissions in frequency bands (above 1GHz)

<table>
<tr><td>Test Requirement:</td><td>Refer to 47 CFR 15.247(d), in addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.5.4
KDB 558074 D01 15.247 Meas Guidance v05r02</td></tr>
<tr><td>Test Limit:</td><td>
<table>
<tr><td>Frequency (MHz)</td><td>Field strength (microvolts/meter)</td><td>Measurement distance (meters)</td></tr>
<tr><td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr>
<tr><td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr>
<tr><td>1.705-30.0</td><td>30</td><td>30</td></tr>
<tr><td>30-88</td><td>100 **</td><td>3</td></tr>
<tr><td>88-216</td><td>150 **</td><td>3</td></tr>
<tr><td>216-960</td><td>200 **</td><td>3</td></tr>
<tr><td>Above 960</td><td>500</td><td>3</td></tr>
</table>
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.
In the emission table above, the tighter limit applies at the band edges.
The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.
</td></tr>
<tr><td>Procedure:</td><td>ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.5.4</td></tr>
<tr><td>Test Setup:</td><td> 
</td></tr>
<tr><td colspan="2">Operating Environment:</td></tr>
<tr><td>Temperature:</td><td>24.9 °C</td></tr>
<tr><td>Humidity:</td><td>49 %</td></tr>
<tr><td>Atmospheric Pressure:</td><td>1010 mbar</td></tr>
<tr><td>Test voltage:</td><td>AC 120V 60Hz</td></tr>
</table>

6.8.1 Test Data

Remark: The report only reflects the test data of worst mode.

Test Channel: Lowest channel, Test Polarization: Vertical							
Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Marging (dB)	Detector	Result
4824.00	98.47	-48.87	49.59	74.00	-24.41	Peak	Pass
4824.00	88.59	-48.87	39.72	54.00	-14.28	AVG	Pass
7236.00	95.26	-46.99	48.27	74.00	-25.73	Peak	Pass
7236.00	84.62	-46.99	37.63	54.00	-16.37	AVG	Pass
Test Channel: Lowest channel, Test Polarization: Horizontal							
Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Marging (dB)	Detector	Result
4824.00	97.90	-48.87	49.02	74.00	-24.98	Peak	Pass
4824.00	87.31	-48.87	38.44	54.00	-15.56	AVG	Pass
7236.00	95.35	-46.99	48.36	74.00	-25.64	Peak	Pass
7236.00	85.14	-46.99	38.15	54.00	-15.85	AVG	Pass
Test Channel: Middle channel, Test Polarization: Vertical							
Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Marging (dB)	Detector	Result
4874.00	99.50	-48.84	50.66	74.00	-23.34	Peak	Pass
4874.00	89.76	-48.84	40.92	54.00	-13.08	AVG	Pass
7311.00	95.02	-46.90	48.12	74.00	-25.88	Peak	Pass
7311.00	85.25	-46.90	38.36	54.00	-15.64	AVG	Pass
Test Channel: Middle channel, Test Polarization: Horizontal							
Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Marging (dB)	Detector	Result
4874.00	98.17	-48.84	49.33	74.00	-24.67	Peak	Pass
4874.00	87.46	-48.84	38.62	54.00	-15.38	AVG	Pass
7311.00	96.79	-46.90	49.89	74.00	-24.11	Peak	Pass
7311.00	86.45	-46.90	39.55	54.00	-14.45	AVG	Pass

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Test Channel: Highest channel, Test Polarization: Vertical							
Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Marging (dB)	Detector	Result
4924.00	98.62	-48.81	49.81	74.00	-24.19	Peak	Pass
4924.00	88.15	-48.81	39.34	54.00	-14.66	AVG	Pass
7386.00	96.84	-46.81	50.03	74.00	-23.97	Peak	Pass
7386.00	87.29	-46.81	40.48	54.00	-13.52	AVG	Pass
Test Channel: Highest channel, Test Polarization: Horizontal							
Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Marging (dB)	Detector	Result
4924.00	98.10	-48.81	49.29	74.00	-24.71	Peak	Pass
4924.00	87.43	-48.81	38.62	54.00	-15.38	AVG	Pass
7386.00	96.48	-46.81	49.68	74.00	-24.32	Peak	Pass
7386.00	86.97	-46.81	40.16	54.00	-13.84	AVG	Pass

Note:Margin=Level-Limit=Reading+factor-Limit=Reading+Antenna factor+ cable loss -amplifier gain-Limit

18-40G:

Test Channel: Lowest channel, Test Polarization: Vertical

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	22059.543	51.05	-11.23	39.82	54.00	-14.18	AVG	P
2	22161.942	55.30	-11.20	44.10	74.00	-29.90	peak	P
3 *	31041.847	54.91	-14.74	40.17	54.00	-13.83	AVG	P
4	31071.605	60.13	-14.73	45.40	74.00	-28.60	peak	P

Test Channel: Lowest channel, Test Polarization: Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	21504.747	53.06	-11.29	41.77	54.00	-12.23	AVG	P
2	21523.643	56.36	-11.28	45.08	74.00	-28.92	peak	P
3	33094.745	60.95	-14.23	46.72	74.00	-27.28	peak	P
4	33432.057	54.42	-14.15	40.27	54.00	-13.73	AVG	P

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Test Channel: Middle channel, Test Polarization: Vertical

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	20595.566	56.03	-11.19	44.84	74.00	-29.16	peak	P
2 *	20595.566	50.52	-11.19	39.33	54.00	-14.67	AVG	P
3	31916.509	52.20	-14.69	37.51	54.00	-16.49	AVG	P
4	31954.759	58.04	-14.70	43.34	74.00	-30.66	peak	P

Test Channel: Middle channel, Test Polarization: Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	20418.721	57.02	-11.25	45.77	74.00	-28.23	peak	P
2	20428.506	52.63	-11.25	41.38	54.00	-12.62	AVG	P
3 *	30817.108	57.28	-14.78	42.50	54.00	-11.50	AVG	P
4	31158.562	62.70	-14.58	48.12	74.00	-25.88	peak	P

Test Channel: Highest channel, Test Polarization: Vertical

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	19780.024	51.69	-11.40	40.29	54.00	-13.71	AVG	P
2	19841.717	56.79	-11.37	45.42	74.00	-28.58	peak	P
3 *	32766.068	54.65	-14.24	40.41	54.00	-13.59	AVG	P
4	32807.956	61.25	-14.23	47.02	74.00	-26.98	peak	P

Test Channel: Highest channel, Test Polarization: Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	19848.055	97.06	-52.08	44.98	74.00	-29.02	peak	P
2 *	19876.603	92.10	-52.06	40.04	54.00	-13.96	AVG	P
3	32711.172	100.27	-54.99	45.28	74.00	-28.72	peak	P
4	32915.538	94.13	-54.90	39.23	54.00	-14.77	AVG	P

Note:Margin=Level-Limit=Reading+factor-Limit=Reading+Antenna factor+ cable loss -amplifier gain-Limit

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7 Test Setup Photos

Please refer to Appendix I Test Setup Photos.

8 EUT Constructional Details (EUT Photos)

Please refer to Appendix II External Photos and Appendix III Internal Photos.

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