



Shenzhen CTL Testing Technology Co., Ltd.
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TEST REPORT

47 CFR FCC Part 15 Subpart C 15.231

Report Reference No.....: CTL2603312031-WF

Compiled by:
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Jayden Zhuo

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Ivan Xie



Product Name.....: Water cooling and heating system

Model/Type reference.....: XY-LN07

List Model(s).....: XY-LN05

Trade Mark.....: N/A

FCC ID.....: 2BWIZ-XY-LN07

Applicant's name.....: Changsha Xiaoyuan Technology Co., Ltd

Address of applicant.....: 501, Building C4, Purui West Road Industrial Park, Wangcheng Economic Development Zone, Changsha, China

Test specification.....:

Standard.....: 47 CFR FCC Part 15 Subpart C 15.231

TRF Originator.....: Shenzhen CTL Testing Technology Co., Ltd.

Master TRF.....: Dated 2011-01

Date of receipt of test item.....: Apr. 07, 2026

Date of Test Date.....: Apr. 07, 2026-Apr. 27, 2026

Date of Issue.....: Apr. 27, 2026

Result.....: Pass

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TEST REPORT

Test Report No. :	CTL2603312031-WF	Apr. 27, 2026 Date of issue
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Equipment under Test : Water cooling and heating system

Sample No. : CTL260331203001

Model /Type : XY-LN07

Listed Models : XY-LN05

Model Difference : All these models are identical in the same PCB, layout and electrical circuit, only the model number are different.

Applicant : **Changsha Xiaoyuan Technology Co., Ltd**

Address : 501, Building C4, Purui West Road Industrial Park,
Wangcheng Economic Development Zone, Changsha,
China

Manufacturer : **Changsha Xiaoyuan Technology Co., Ltd**

Address : 501, Building C4, Purui West Road Industrial Park,
Wangcheng Economic Development Zone, Changsha,
China

Test result	Pass *
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* In the configuration tested, the EUT complied with the standards specified page 5.

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the issuing testing laboratory.

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1. SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

[FCC Rules Part 15.231:](#) Periodic operation in the band 40.66-40.70 MHz and above 70 MHz.

[ANSI C63.10:2020 :](#) American National Standard for Testing Unlicensed Wireless Devices

1.2. Test Description

FCC and IC Requirements		
FCC Part 15.207	Conducted Emission	N/A
FCC Part 15.231(a)(1)	Automatically Deactivate	PASS
FCC Part 15.231(b)	Electric Field Strength of Fundamental Emission	PASS
FCC Part 15.205 & 15.209 & 15.231(b)	Electric Field Strength of Spurious Emission	PASS
FCC Part 15.231(c)	-20dB bandwidth	PASS
FCC Part 15.203	Antenna requirement.	PASS

Remark: The measurement uncertainty is not included in the test result.

Note: N/A= not applicable.

1.3. Test Facility

1.3.1 Address of the test laboratory

Company Name:	Shenzhen CTL Testing Technology Co., Ltd.
Address 1:	Zone A.1/F..Warehouse 2.Baisha Technology Park, No.3011,Shahexi Road, Nanshan District,Shenzhen.518055,P.R.C.
Address 2:	Fl.A1, Bldg.A3, No.2533 GuanGuang Road, Fenghuang Community Fenghuang Street, Guangming District, Shenzhen, Guangdong, PR.C

1.3.2 Test location

All tests were performed at:

Company Name:	Shenzhen CTL Testing Technology Co., Ltd.
☐ Main location	Zone A.1/F..Warehouse 2.Baisha Technology Park, No.3011,Shahexi Road, Nanshan District,Shenzhen.518055,P.R.C.
☒ Satellite location	Fl.A1, Bldg.A3, No.2533 GuanGuang Road, Fenghuang Community Fenghuang Street, Guangming District, Shenzhen, Guangdong, PR.C

1.3.3 Laboratory accreditation

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

CNAS-Lab Code: L7497

Shenzhen CTL Testing Technology Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2017 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No. 4343.01

Shenzhen CTL Testing Technology Co., Ltd, EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

IC CAB identifier: CN0041

Main Company Number :9618B

Satellite Company Number:35187

The 3m alternate test site of Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements with Main Company Number:9618B and Satellite Company Number:35187.

FCC-Registration No.: 399832

Designation No.: CN1216

Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation No.: CN1216. Test Firm Registration 399832.

1.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4

„Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen CTL Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for CTL laboratory is reported:

Test Item	Measurement Uncertainty	Notes
Transmitter power Radiated	± 2.20 dB	(1)
Occupied Bandwidth	± 0.02 ppm	(1)
Radiated Emission 30~1000MHz	± 4.08 dB	(1)
Radiated Emission Above 1GHz	± 4.32 dB	(1)
Conducted Disturbance 0.15~30MHz	± 2.96 dB	(1)
20dB Emission Bandwidth	$\pm 1.9\%$	(1)
Carrier Frequency Separation	$\pm 1.9\%$	(1)
Maximum Power Spectral Density Level	± 0.98 dB	(1)
Number of Hopping Channel	$\pm 1.9\%$	(1)
Time of Occupancy	$\pm 0.11\%$	(1)
Max Peak Conducted Output Power	± 0.98 dB	(1)
Band-edge Spurious Emission	± 1.21 dB	(1)
Conducted RF Spurious Emission	9kHz-7GHz: ± 1.09 dB 7GHz-26.5GHz: ± 3.27 dB	(1)

- (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=1.96$.
- (2) Decision rule for Statement of Conformity: The measurement uncertainty is not taken into account but only measured result.

2. GENERAL INFORMATION

2.1. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Normal Temperature:	18-28°C
Relative Humidity:	30-60%
Air Pressure:	965-1030hPa

2.2. General Description of EUT

Product Name:	Water cooling and heating system
Model/Type reference:	XY-LN07
EUT Rated Voltage:	DC 3V battery power supply
Test Voltage:	DC 3V battery power supply
Modulation:	ASK
Operation frequency:	433.72MHz
Channel number:	1
Antenna type:	PCB Antenna
Antenna gain:	0dBi provided by ☒ Applicant ☐ Manufacturer

Note1: For more details, please refer to the user's manual of the EUT.

Note2: Antenna gain provided by the applicant.

Note3: The product cannot be configured to operate outside the current frequency band plan through software configuration, Third parties are not allowed to change any software parameter configuration of the product.

2.3. Description of Test Modes and Test Frequency

The EUT was tested under typical operating condition. The applicant provides drivers to make it work in general use, and software can obtain data from it to see if it works intended during testing.

RF Cable List and Details

RF Cable	RF Cable loss	RF Cable loss provided by
RF1.13	0.5dB	☒ Applicant ☐ Manufacturer ☐ Testing Laboratory (CTL)
RG 316	0.8dB	☒ Applicant ☐ Manufacturer ☐ Testing Laboratory (CTL)

2.4. Equipments Used during the Test

Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	1166.5950.03	2026/01/05	2027/01/04
	LISN	ROHDE & SCHWARZ	ESH2-Z5	860014/010	2026/01/05	2027/01/04
	Limitator	ROHDE & SCHWARZ	ESH3-Z2	100408	2026/01/05	2027/01/04
Software:						
Name of Software:				Version:		
ES-K1				V1.71		

Radiated Emissions and Band Edge					
Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
Loop antenna	BEIJING DA ZE TECHNOLOGY CO., LTD	ZN30900A	N/A	2025/07/02	2026/07/01
ULTRA-BROADBAND ANTENNA	Sunol Sciences Corp.	JB1 Antenna	A061713	2025/07/02	2026/07/01
Horn Antenna	Sunol Sciences Corp	DRH-118	A062013	2026/01/05	2027/01/04
Horn Antenna	Ocean Microwave	OBH1004 00	26999002	2025/07/02	2026/07/01
Amplifier	MRT Technology(Suzhou)Co., Ltd	MRT-AP0 1M06	S-001	2025/04/28	2026/04/27
Amplifier	Agilent	8449B	3008A02306	2026/01/05	2027/01/04
Amplifier	Brief&Smart	LNA-4018	2104197	2025/07/03	2026/07/02
EMI Test Receiver	ROHDE & SCHWARZ	ESCI	1166.5950.03	2026/01/05	2027/01/04
Spectrum Analyzer	RS	FSP	1164.4391.38	2025/07/03	2026/07/02
Test software					
Name of Software			Version		
EZ_EMG(Below 1GHz)			V1.1.4.2		
EZ_EMG(Above 1GHz)			V1.1.4.2		

Automatically Deactivate & -20dB bandwidth					
Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
Spectrum Analyzer	Keysight	N9020A	MY53420874	2025/07/03	2026/07/02
Temperature/Humidity Meter	Ji Yu	MC501	/	2025/07/03	2026/07/02
Test Software					
Name of Software			Version		
TST-PASS			V2.0.2		

2.5. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended to comply with Section 15.231 of the FCC Part 15, Subpart C Rules.

2.6. Modifications

No modifications were implemented to meet testing criteria.

3. TEST CONDITIONS AND RESULTS

3.1. Conducted Emission (AC Main)

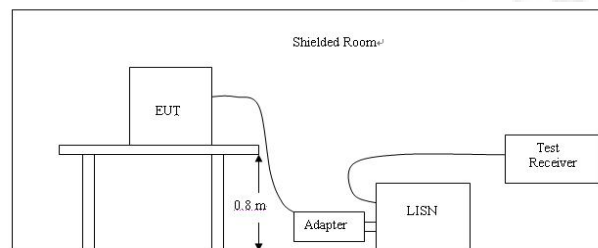
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207

Frequency range (MHz)	Limit (dBuV)	
	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.

TEST CONFIGURATION



TEST PROCEDURE

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a flood stand system; a wooden table with a height of 0.1 meters is used and is placed on the ground plane as per ANSI C63.10:2020.
2. Support equipment, if needed, was placed as per ANSI C63.10:2020
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10:2020
4. If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5. All support equipments received AC power from a second LISN, if any.
6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.

TEST RESULTS

Battery powered products do not require this test.

3.2. Radiated Emission

Limit

For intentional device, according to 15.209(a) the general requirement of field strength of radiated emission from intentional radiators at a distance of 3 meters shall not exceed the following table.

Frequency(MHz)	Distance(Meters)	Radiated(dBμV/m)	Radiated(μV/m)
0.009-0.49	3	$20\log(2400/F(\text{KHz}))+40\log(300/3)$	$2400/F(\text{KHz})$
0.49-1.705	3	$20\log(24000/F(\text{KHz}))+40\log(30/3)$	$24000/F(\text{KHz})$
1.705-30	3	$20\log(30)+40\log(30/3)$	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

In addition to the provisions of 15.231(b) and RSS 210-A1.1.2, the field strength of emissions from intentional radiators operated under this section shall not exceed the following:

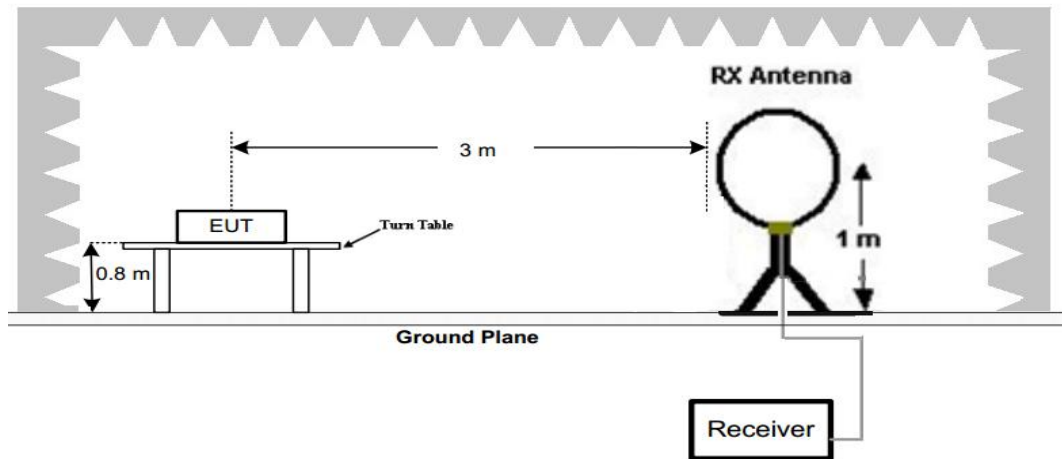
Funda- mental fre- quency (MHz)	Field strength of funda- mental (microvolts/ meter)	Field strength of spurious emissions (microvolts/meter)
40.66– 40.70.	2,250	225
70–130	1,250	125
130–174	¹ 1,250 to 3,750	¹ 125 to 375
174–260	3,750	375
260–470	¹ 3,750 to 12,500	¹ 375 to 1,250
Above 470	12,500	1,250

¹ Linear interpolations.

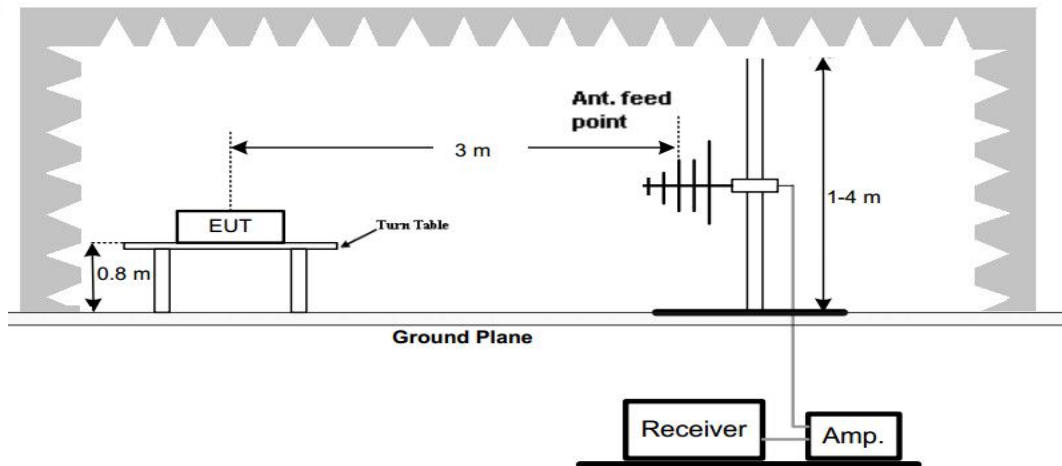
[Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 260-470 MHz, $\mu\text{V/m}$ at 3 meters $= 41.6667(F) - 7083.3333$. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.]

TEST CONFIGURATION

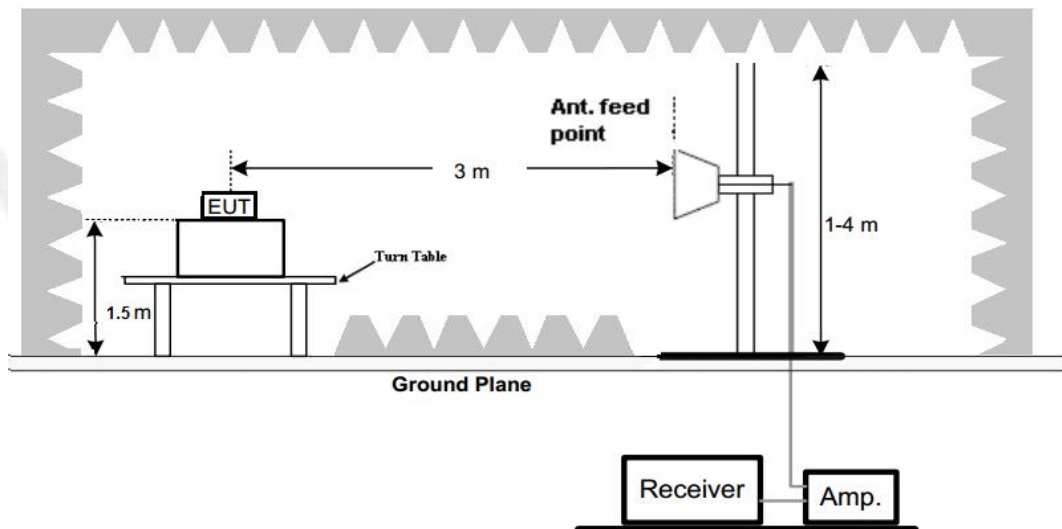
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency below 1000MHz



(C) Radiated Emission Test Set-Up, Frequency above 1000MHz



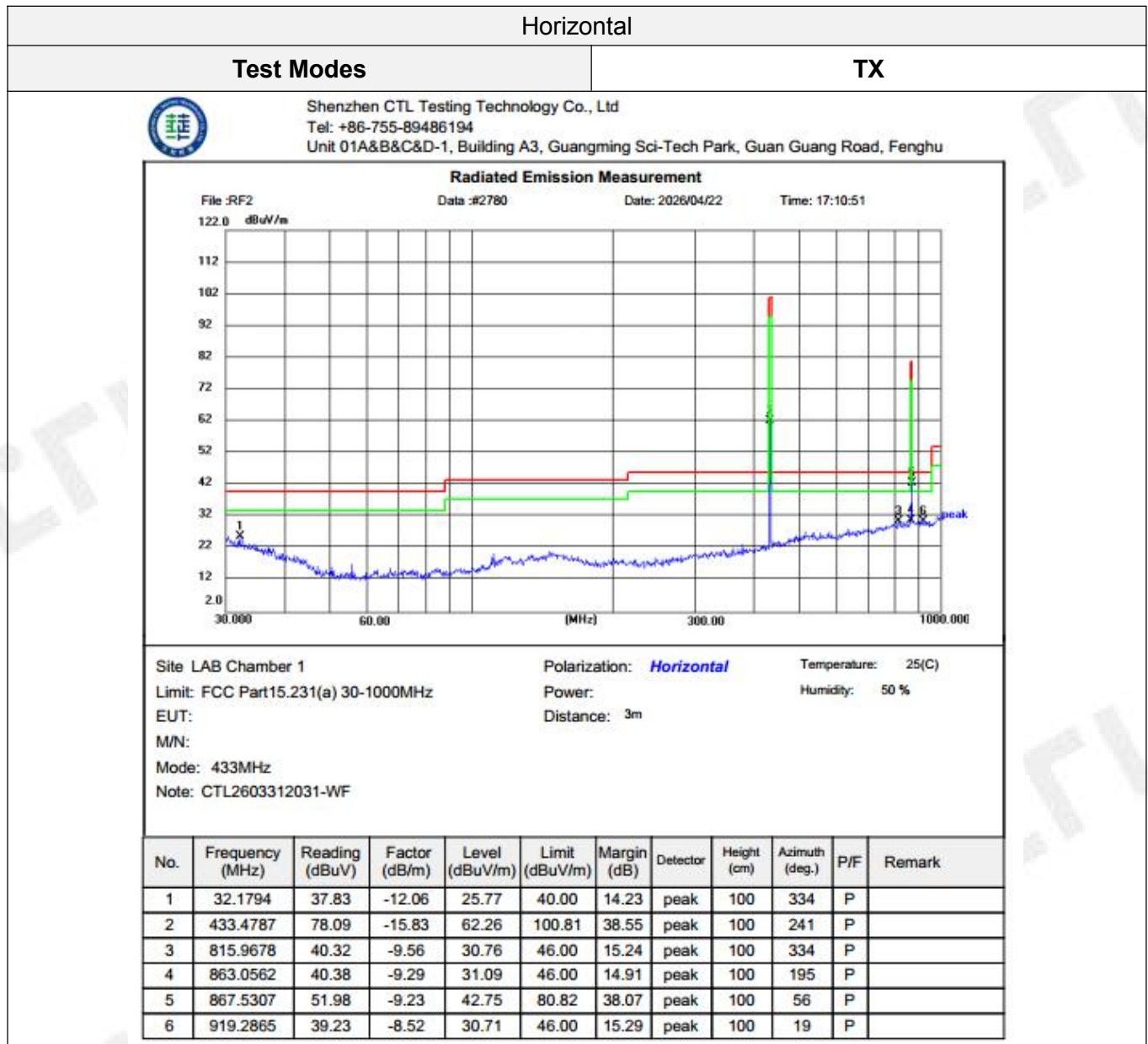
Test Procedure

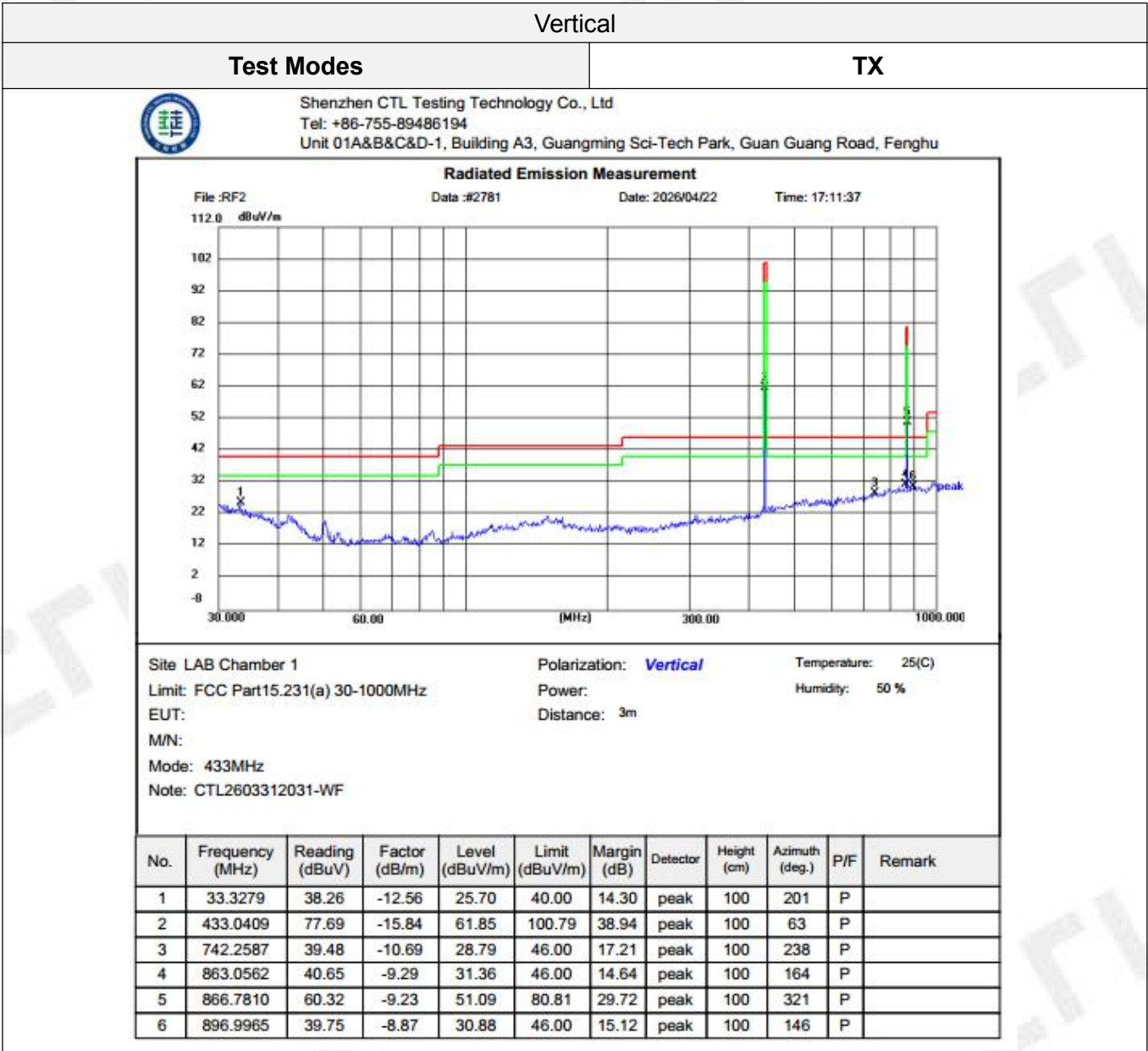
1. Below 1GHz measurement the EUT is placed on a turntable which is 0.8m above ground plane, and above 1GHz measurement EUT was placed on a low permittivity and low loss tangent turn table which is 1.5m above ground plane.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0° to 360° to acquire the highest emissions from EUT
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measurements have been completed.

TEST RESULTS

The emissions from 30MHz to 18GHz are measured with PEAK detector; and average level calculated with Duty cycle correction according 15.35(c), detailed test data please see below. Besides, we tested 3 directions and recorded the worst data

For 30MHz-1GHz





For 1GHz to 25GHz

Horizontal

Test Modes

TX



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Unit 01A&B&C&D-1, Building A3, Guangming Sci-Tech Park, Guan Guang Road, Fenghu

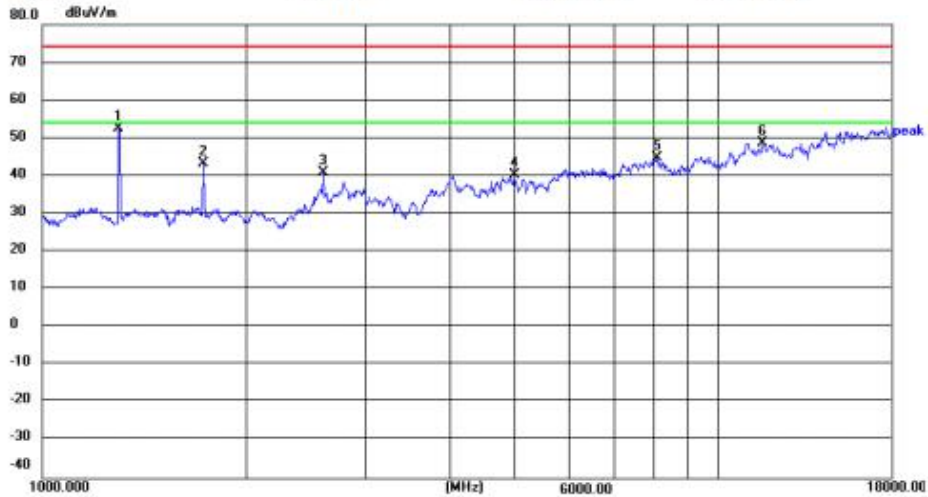
Radiated Emission Measurement

File: RF2

Data: #3002

Date: 2026/04/23

Time: 19:53:19



Site LAB Chamber 1

Polarization: **Horizontal**

Temperature: 25(C)

Limit: FCC PART 15C ABOVE 1GHz PK

Power:

Humidity: 50 %

EUT:

Distance: 3m

M/N:

Mode: 433MHz

Note: CTL2603312031-WF

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	1297.103	77.74	-25.14	52.60	74.00	21.40	peak	150	0	P	
2	1731.816	65.98	-22.74	43.24	74.00	30.76	peak	150	0	P	
3	2603.126	56.03	-15.16	40.87	74.00	33.13	peak	150	0	P	
4	4988.058	49.19	-8.87	40.32	74.00	33.68	peak	150	0	P	
5	8129.663	49.67	-4.93	44.74	74.00	29.26	peak	150	0	P	
6	11600.350	47.02	1.57	48.59	74.00	25.41	peak	150	0	P	

Vertical

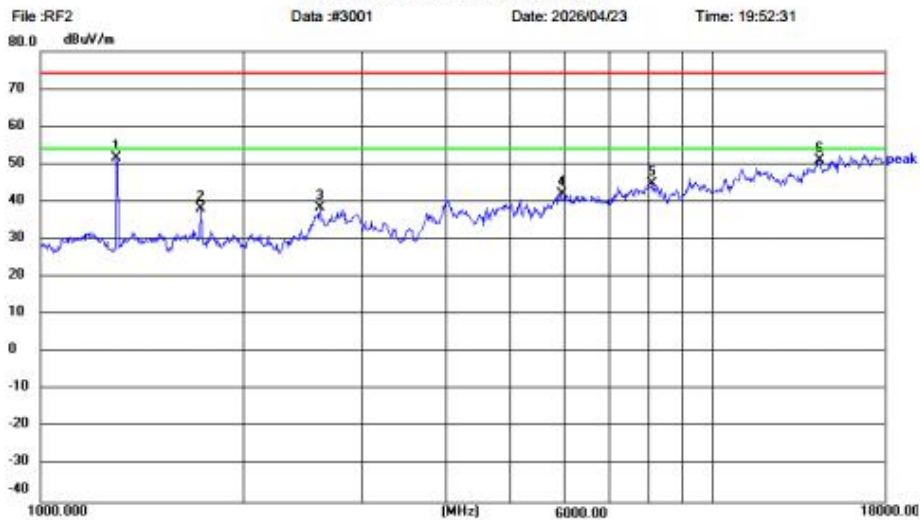
Test Modes

TX



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Radiated Emission Measurement



Site LAB Chamber 1

Polarization: **Vertical**

Temperature: 25(C)

Limit: FCC PART 15C ABOVE 1GHz PK

Power:

Humidity: 50 %

EUT:

Distance: 3m

M/N:

Mode: 433MHz

Note: CTL2603312031-WF

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	1297.103	76.91	-25.14	51.77	74.00	22.23	peak	150	360	P	
2	1731.816	61.00	-22.74	38.26	74.00	35.74	peak	150	360	P	
3	2603.126	53.54	-15.16	38.38	74.00	35.62	peak	150	360	P	
4	5949.811	49.06	-7.04	42.02	74.00	31.98	peak	150	360	P	
5	8129.663	49.56	-4.93	44.63	74.00	29.37	peak	150	360	P	
6	14366.840	48.49	2.58	51.07	74.00	22.93	peak	150	360	P	

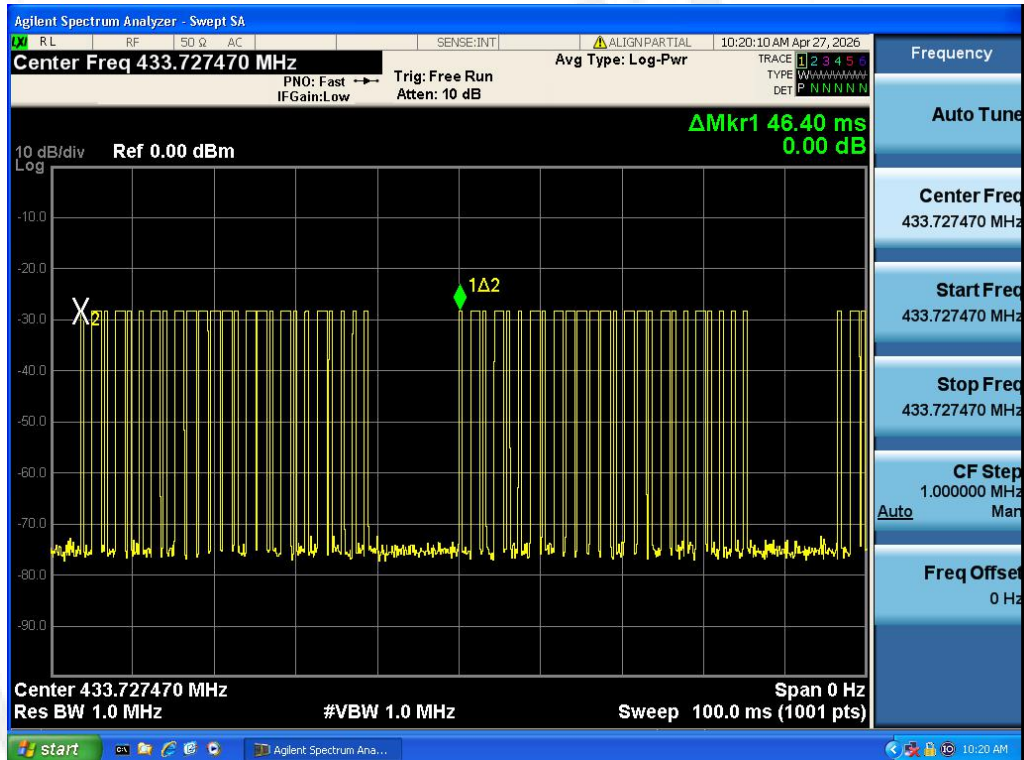
Remark: Level(dBuV/m)=Reading(dBuV)+Factor(dB/m)

Margin= Limit(dBuV/m)- Level(dBuV/m)

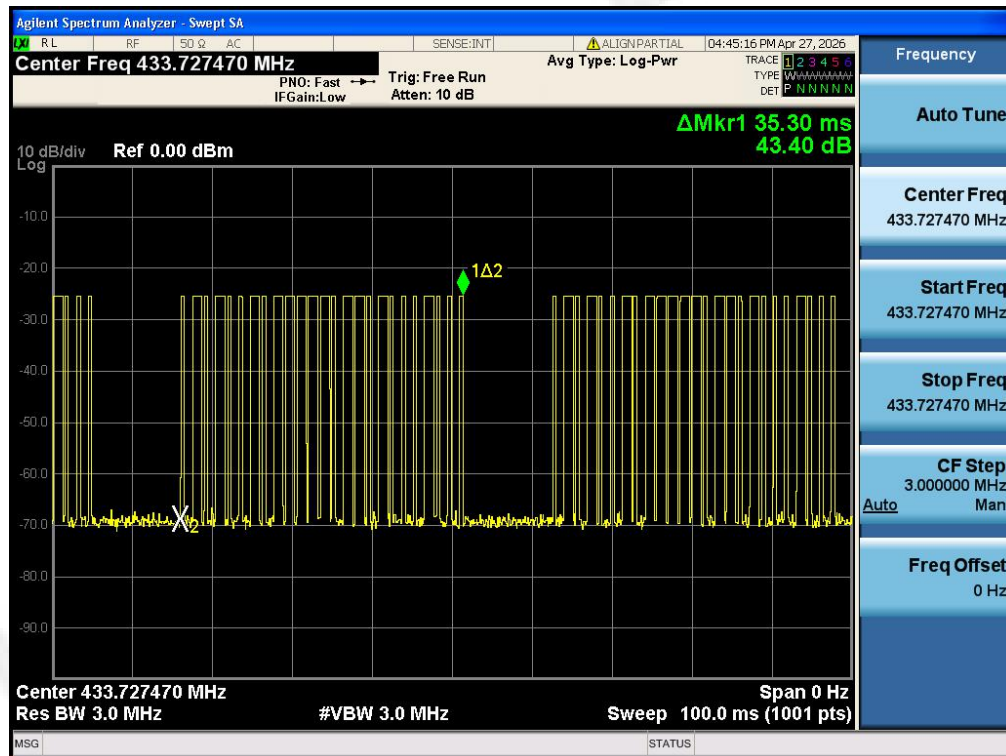
Test frequency: 433.72MHz

Emission Styles	Frequency (MHz)	PK Emission Level (dBuV/m)	AV Factor (dB/m)	AV Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Direction (H/V)
Fundamental	433.4787	62.26	-8.78	53.48	80.89	27.41	H
Harmonics	867.5307	42.75	-8.78	33.97	60.89	26.92	H
Harmonics	4988.058	40.32	-8.78	31.54	54.00	22.46	H
--	--	--	--	--	--	--	--
Fundamental	433.0409	61.85	-8.78	53.07	80.89	27.82	V
Harmonics	866.7810	51.09	-8.78	42.31	60.89	18.58	V
Harmonics	5949.811	42.02	-8.78	33.24	54.00	20.76	V
--	--	--	--	--	--	--	--

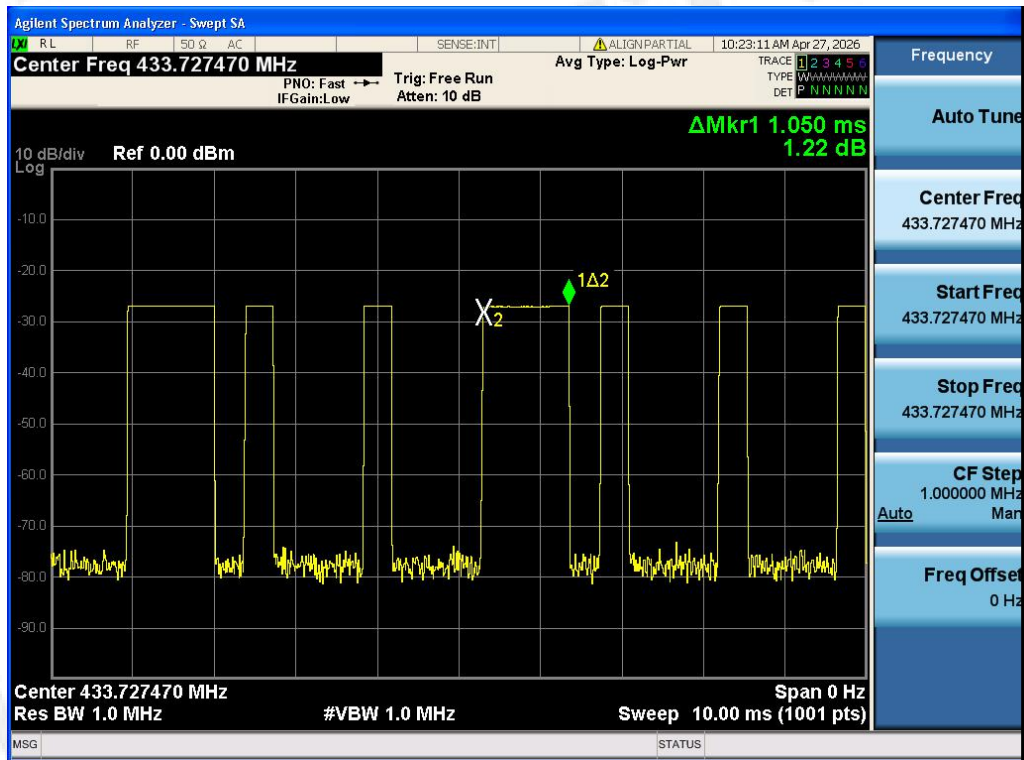
- Note:
- $AV \text{ Level (dBuV/m)} = PK \text{ Level (dBuV/m)} + AV \text{ Factor (dB)}$
- In a transmit cycle 46.40ms period found 1.050ms burst 12pcs, 0.33ms burst 13pcs, the Duty Cycle can calculate as below:
 $Duty \text{ Cycle} = (1.050 * 12 + 0.33 * 13) / 46.40 = 0.364$
 $AV \text{ Factor} = 20 * \log(Duty \text{ Cycle}) = 20 * \log(0.364) = -8.78$
- (The plot of Duty Cycle See the follow page)



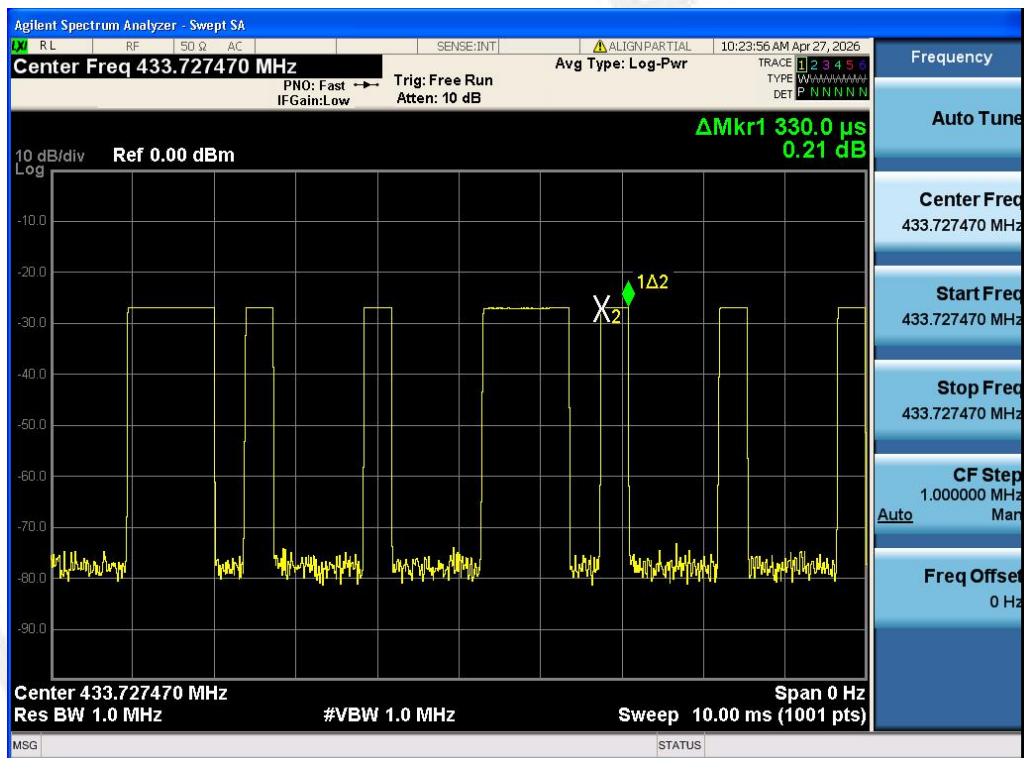
(Transmit cycle 46.40ms)



(Total Bursts in a transmit cycle 25pcs)



(1.050ms burst 12pcs)



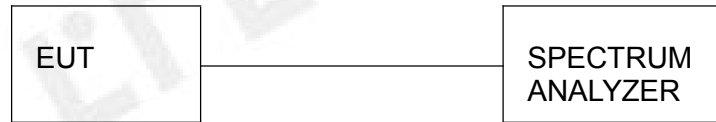
(0.33ms burst 13pcs)

3.3. 20dB Bandwidth

Limit

According to 47 CFR 15.231(c) The bandwidth of the emission shall be no wider than 0.25% of the centre frequency for devices operating above 70MHz and below 900MHz. Bandwidth is determined at the points 20dB down from the modulated carrier.

Test Configuration



Test Procedure

The 20dB bandwidth and 99% bandwidth is measured with a spectrum analyzer connected via a receive antenna placed near the EUT while the EUT is operating in transmission mode.

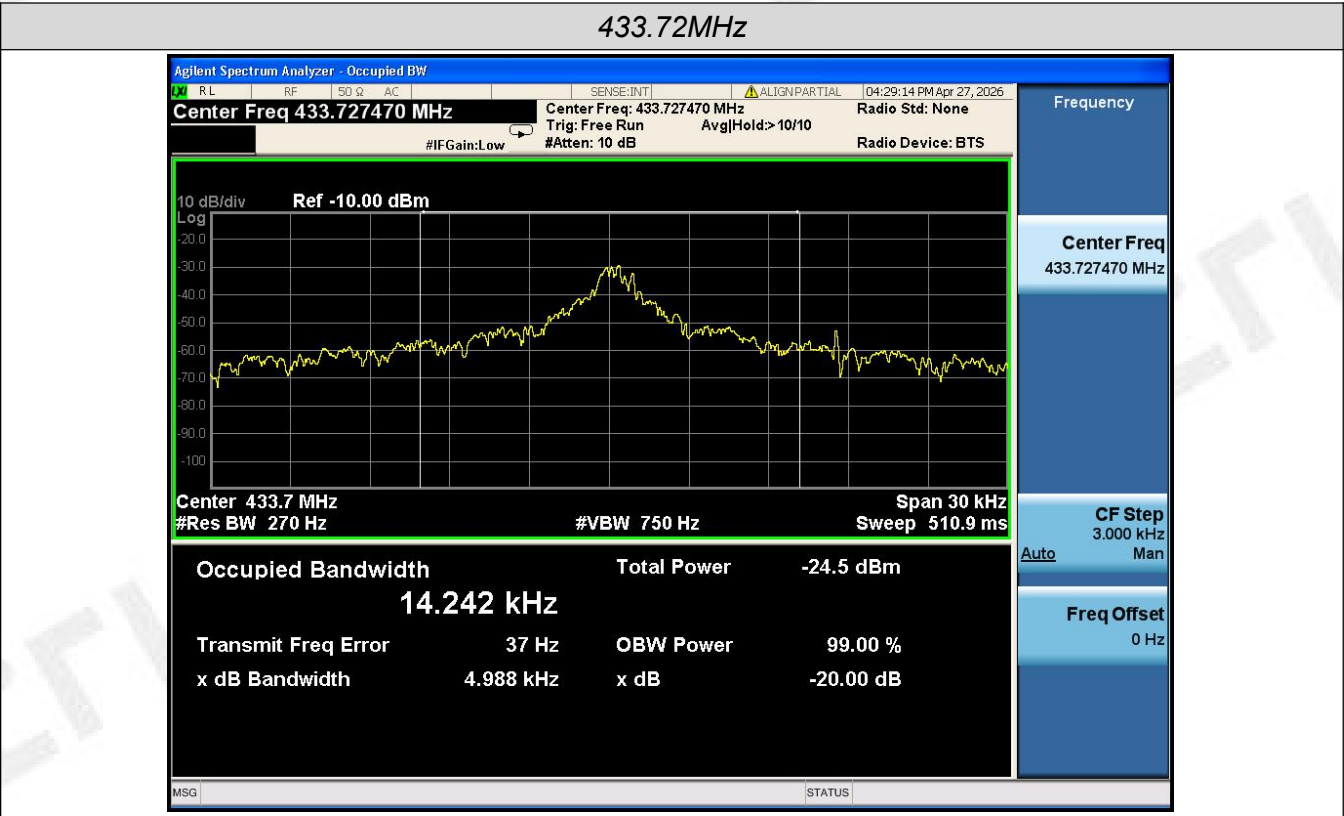
The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

The occupied bandwidth (OBW), 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.

Test Results

Modulation	Channel Frequency (MHz)	99% OBW (KHz)	20dB bandwidth (KHz)	Limit (KHz)	Result
ASK	433.72	14.242	4.988	$0.25\% \times 433720 = 1084.3$	Pass

Test plot as follows:

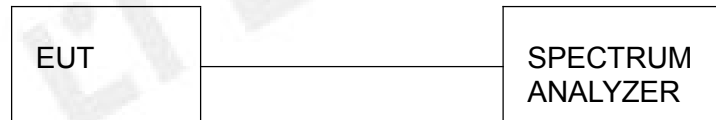


3.4. Deactivation Time

Limit

According to FCC §15.231(a)(1), A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

Test Configuration



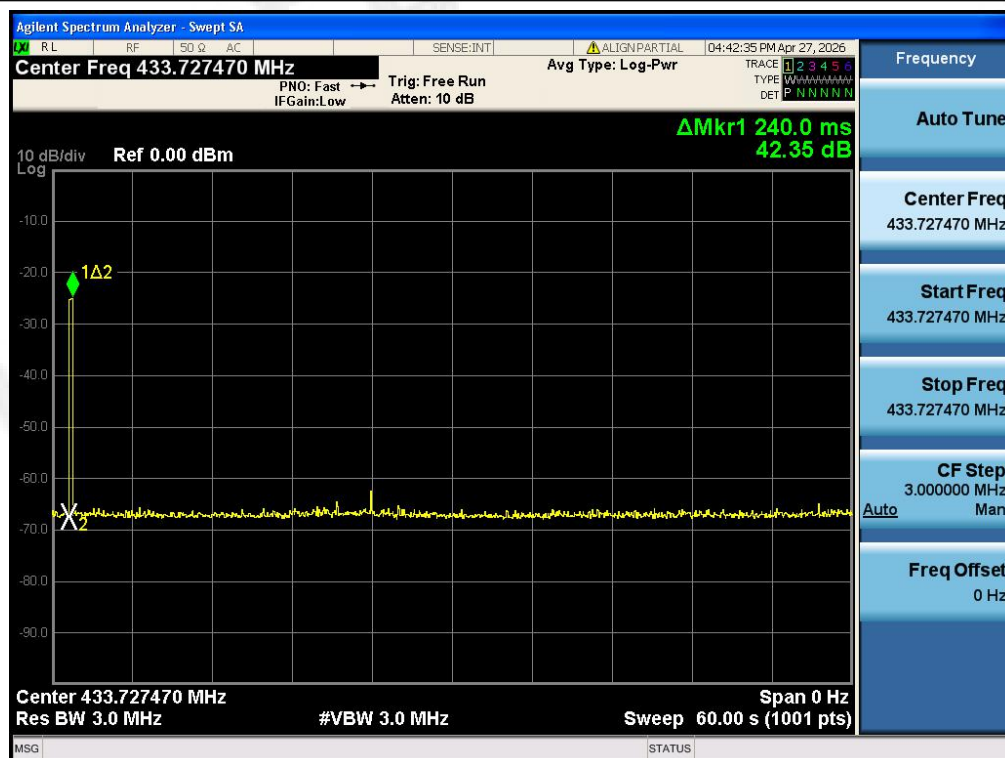
Test Procedure

1. The EUT was placed on a wooded table which is 0.8m height and close to receiver antenna of spectrum analyzer.
2. The spectrum analyzer resolution bandwidth was set to 1 MHz and video bandwidth was set to 1 MHz to encompass all significant spectral components during the test. The spectrum analyzer was operated in linear scale and zero span mode after tuning to the transmitter carrier frequency.

TEST RESULTS

Note: Multiple groups of channels are tested, only the poor frequencies are recorded, other frequencies meet the requirements.

Frequency (MHz)	One transmission time (S)	Limit(S)	Result
433.72	0.24	5	Pass



3.5. Antenna Requirement

Standard Applicable

According to FCC Part 15C 15.203

- a) An intentional radiator shall be de-signed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.
- b) The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

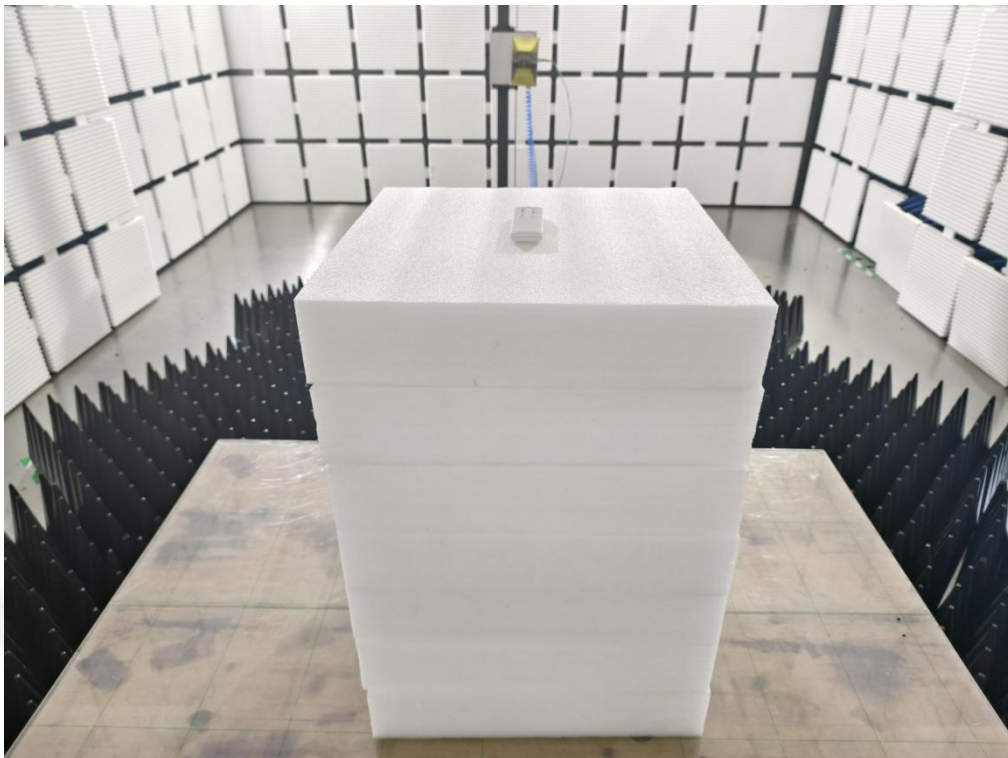
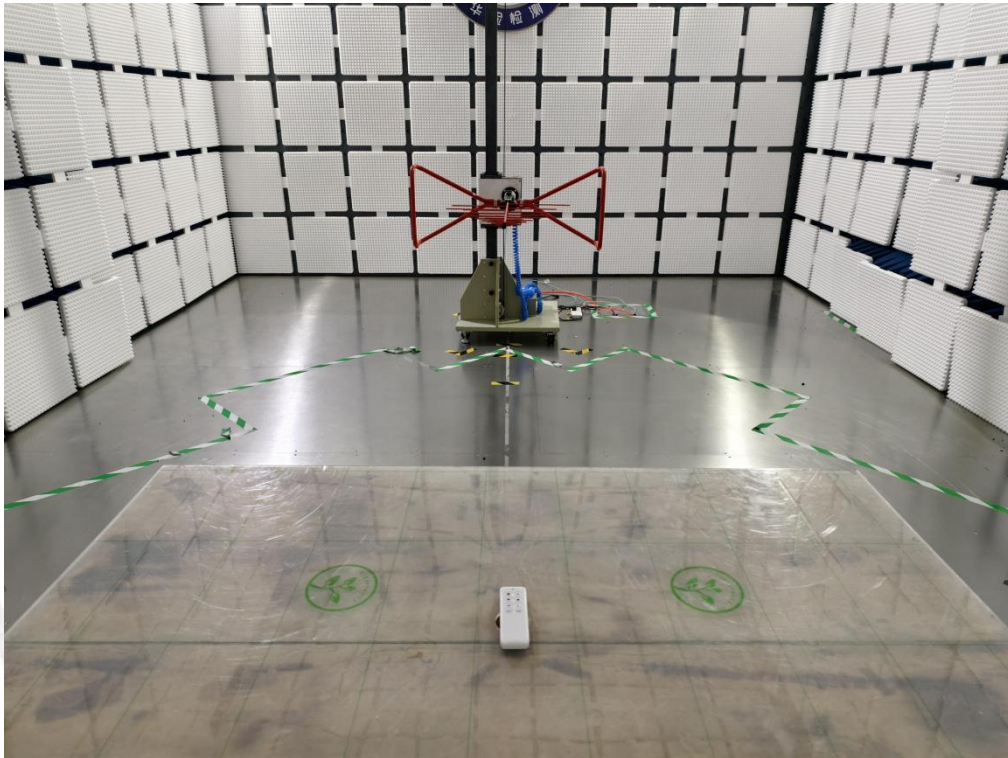
Refer to statement below for compliance.

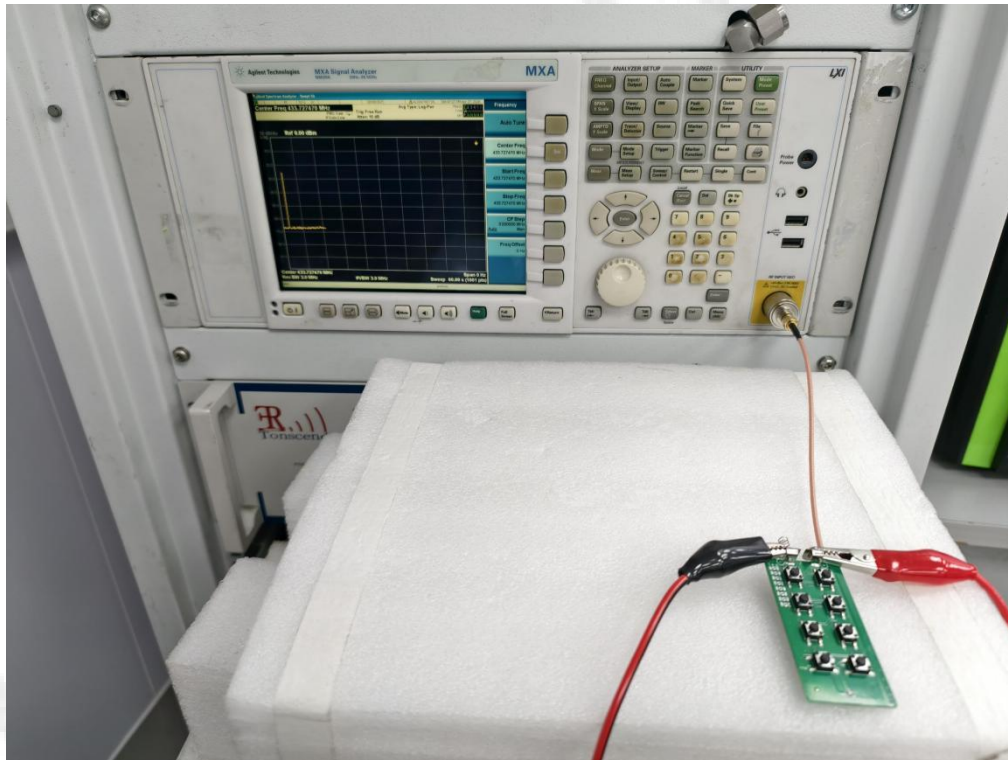
The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

Antenna Connected Construction

The antenna used in this product is a PCB Antenna, The directional gains of antenna used for transmitting is 0dBi.

4. Test Setup Photos of the EUT





5. Photos of the EUT

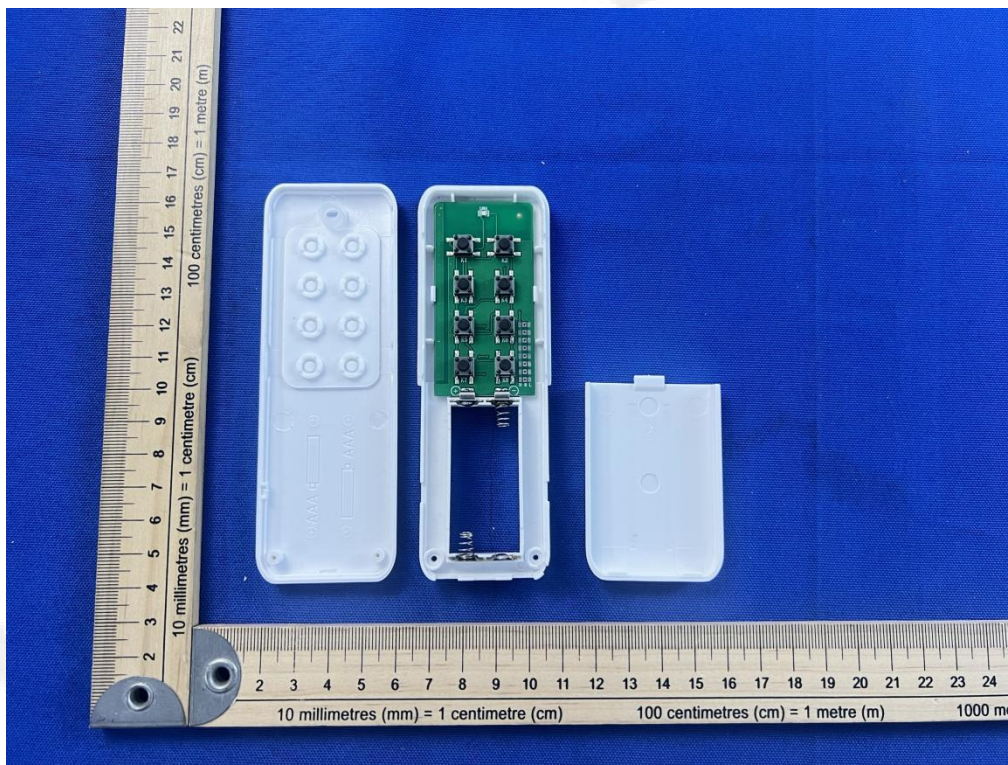
External Photos of EUT

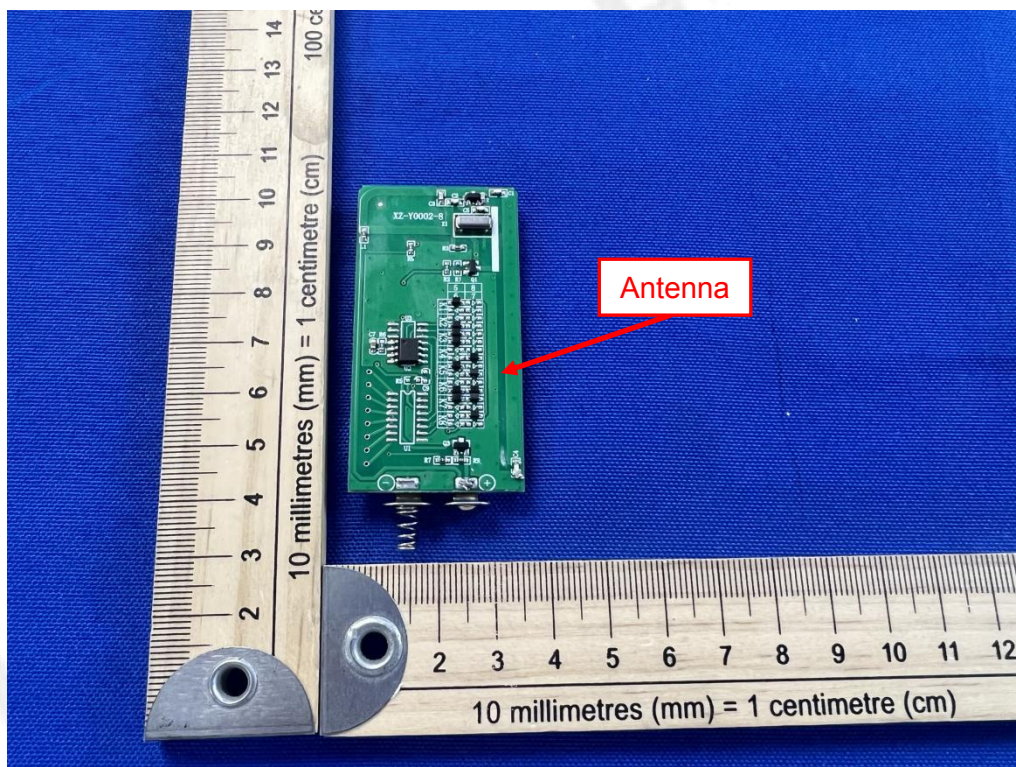
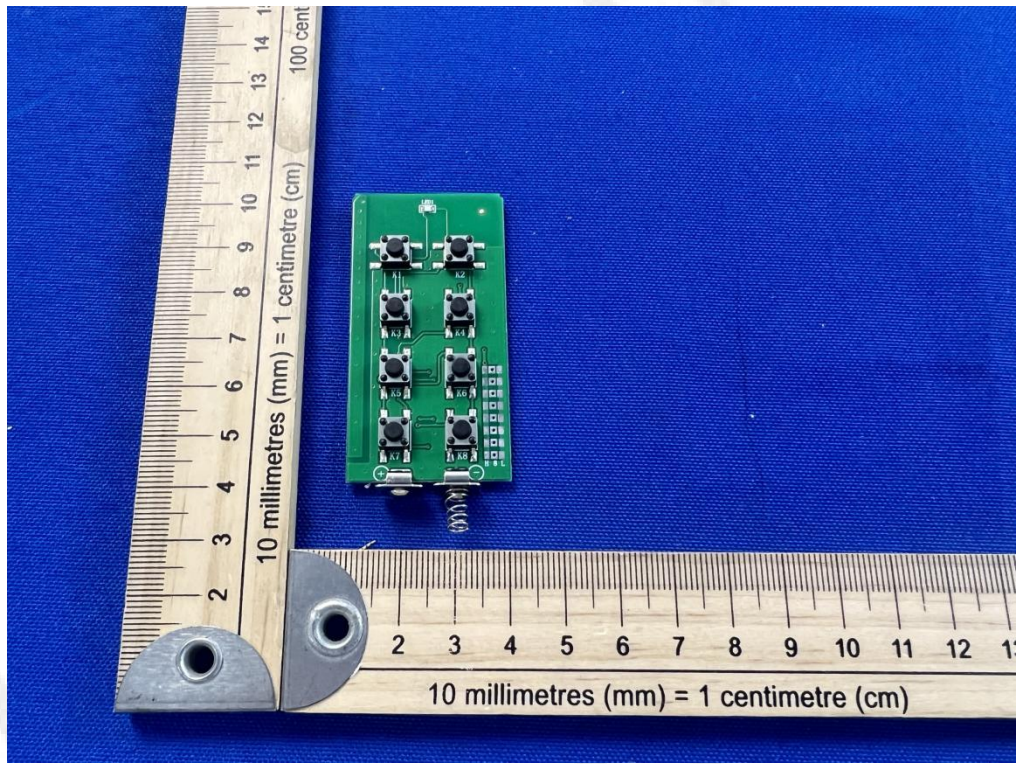


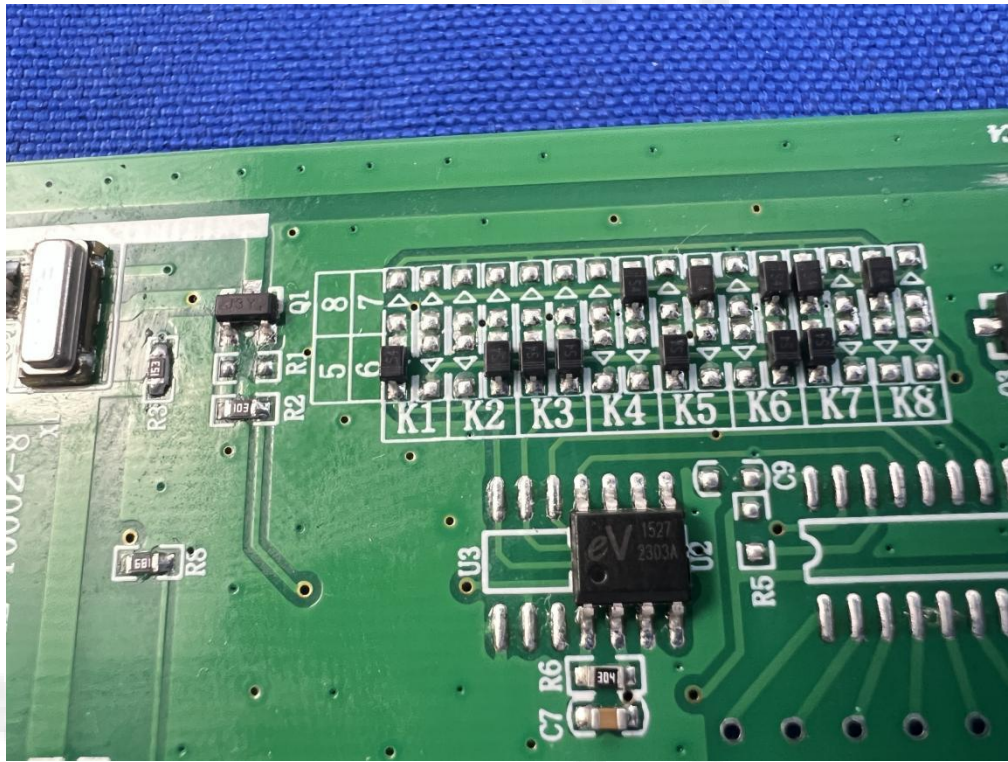






Internal Photos of EUT





*****End of Report*****