



Shenzhen GUOREN Certification Technology Service Co., Ltd.

101#, Building K & Building T, The Second Industrial Zone, Jiazitang Community,
Fenghuang Street, Guangming District, Shenzhen, China

FCC PART 15 SUBPART C TEST REPORT

FCC PART 15.231

Report Reference No..... : GRCTR220702003-01

FCC ID..... : 2A7T7-HSD

Compiled by
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Date of issue.....: Jul. 26, 2022

Testing Laboratory Name.....: Shenzhen GUOREN Certification Technology Service Co., Ltd.

Address.....: 101#, Building K & Building T, The Second Industrial Zone,
Jiazitang Community, Fenghuang Street, Guangming District,
Shenzhen, China

Applicant's name.....: Shenzhen heshunda electronics CO.,LTD

Address.....: East side of 3rd Floor, Building 1, Zhengfeng Industrial Park,
Huangpu East Ring Road, Shajing Street, Bao 'an District,
Shenzhen city

Test specification.....:

Standard.....: **FCC Part 15.231**

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Test item description.....: Mini hot compress massage stick (REMOTE)

Trade Mark.....: /

Manufacturer.....: **Shenzhen heshunda electronics CO.,LTD**

Model/Type reference.....: HSD-003

Listed Models: HSD-001/002, HSD-004, HSD-005, HSD-006, HSD-007, HSD-008,
HSD-009, HSD-010, TS-001

Ratings.....: 5.0V ---, 0.8A(charged by DC 5V Power Adapter) or
3.7V ---, 90mAh (By Li-ion rechargeable battery)

Modulation: ASK

Frequency.....: 433.92MHz

Result.....: **PASS**

TEST REPORT

Equipment under Test : Mini hot compress massage stick (REMOTE)

Model /Type : HSD-003

Listed Models : HSD-001/002, HSD-004, HSD-005, HSD-006, HSD-007, HSD-008, HSD-009, HSD-010,TS-001

Applicant : **Shenzhen heshunda electronics CO.,LTD**

Address : East side of 3rd Floor, Building 1, Zhengfeng Industrial Park, Huangpu East Ring Road, Shajing Street, Bao 'an District, Shenzhen city

Manufacturer : **Shenzhen heshunda electronics CO.,LTD**

Address : East side of 3rd Floor, Building 1, Zhengfeng Industrial Park, Huangpu East Ring Road, Shajing Street, Bao 'an District, Shenzhen city

Test Result:	PASS
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The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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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 C63.10:2013](#) : American National Standard for Testing Unlicensed Wireless Devices

2 SUMMARY

2.1 General Remarks

Date of receipt of test sample	:	Jul. 05, 2022
Testing commenced on	:	Jul. 05, 2022
Testing concluded on	:	Jul. 26, 2022

2.2 Product Description

Product Name:	Mini hot compress massage stick(REMOTE)
Model/Type reference:	HSD-003
Listed Models:	HSD-001/002, HSD-004, HSD-005, HSD-006, HSD-007, HSD-008, HSD-009, HSD-010, TS-001 (The products are identical in interior structure, electrical circuits and components, just model names and power are different)
Testing sample ID:	GRCTR220702003-1# (Engineer sample), GRCTR220702003-2# (Normal sample)
Power supply:	5.0V $\overline{\text{---}}$, 0.8A (charged by DC 5V Power Adapter) or 3.7V $\overline{\text{---}}$, 90mAh (By Li-ion rechargeable battery)
Modulation:	ASK
Operation frequency:	433.92MHz
Channel number:	1
Antenna type:	PCB antenna
Antenna gain* (Supplied by the customer):	0.0 dBi
Remark: *When the information provided by the customer was used to calculate test results, if the information provided by the customer is not accurate, shenzhen GUOREN Certification Technology Service Co., Ltd. does not assume any responsibility.	

2.3 Equipment Under Test

Power supply system utilised

Power supply voltage	:	☐ 230V / 50 Hz	☐ 120V / 60Hz
		☐ 12 V DC	☐ 24 V DC
		☒ Other (specified in blank below)	

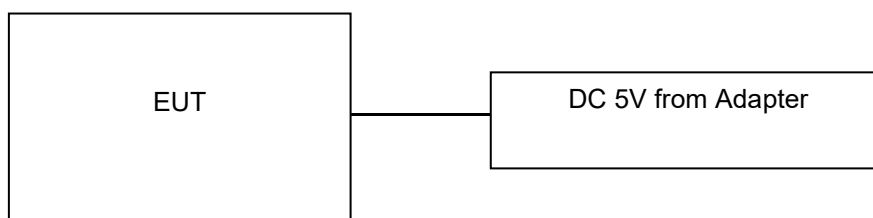
DC 5.0V From Adapter

2.4 Short description of the Equipment under Test (EUT)

This is a Mini hot compress massage stick(REMOTE).

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

2.5 Block Diagram of Test Setup



2.6 Special Accessories

Follow auxiliary equipment(s) test with EUT that provided by the manufacturer or laboratory is listed as follow:

Description	Manufacturer	Model	Technical Parameters	Certificate	Provided by
/	/	/	/	/	/
/	/	/	/	/	/

2.7 Related Submittal(s) / Grant (s)

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

2.8 Modifications

No modifications were implemented to meet testing criteria.

3 TEST ENVIRONMENT

3.1 Address of the test laboratory

Shenzhen GUOREN Certification Technology Service Co., Ltd.

101#, Building K & Building T, The Second Industrial Zone, Jiazitang Community, Fenghuang Street, Guangming District, Shenzhen, China

3.2 Test Facility

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

FCC-Registration No.: 920798 Designation Number: CN1304

Shenzhen GUOREN Certification Technology Service Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA-Lab Cert. No.: 6202.01

Shenzhen GUOREN Certification Technology Service Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

ISED#: 27264 CAB identifier: CN0115

Shenzhen GUOREN Certification Technology Service Co., Ltd. has been listed by Innovation, Science and Economic Development Canada to perform electromagnetic emission measurement.

CNAS-Lab Code: L15631

Shenzhen GUOREN Certification Technology Service Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories for the Competence of Testing and Calibration Laboratories.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

3.3 Environmental conditions

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

Normal Temperature	15-35 °C
Relative Humidity	30-60 %
Air Pressure	950-1050mbar

3.4 Summary of measurement results

FCC Requirements		
FCC Part 15.207	Conducted Emission	PASS
FCC Part 15.231(a)(2)	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

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

3.5 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 TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2" and is documented in the Shenzhen GUOREN Certification Technology Service 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 Shenzhen GUOREN Certification Technology Service Co., Ltd.:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.06 dB	(1)
Radiated Emission	1~18GHz	5.14 dB	(1)
Radiated Emission	18-40GHz	5.38 dB	(1)
Conducted Disturbance	0.15~30MHz	2.14 dB	(1)

- (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3.6 Equipments Used during the Test

Test Equipment	Manufacturer	Model No.	Equipment No.	Calibration Date	Calibration Due Date
LISN	R&S	ENV216	GRCTEE009	2021/10/30	2022/10/29
LISN	R&S	ENV216	GRCTEE010	2021/10/30	2022/10/29
EMI Test Receiver	R&S	ESPI	GRCTEE017	2021/10/30	2022/10/29
EMI Test Receiver	R&S	ESCI	GRCTEE008	2021/10/30	2022/10/29
Spectrum Analyzer	Agilent	N9020A	GRCTEE002	2021/10/30	2022/10/29
Spectrum Analyzer	R&S	FSP	GRCTEE003	2021/10/20	2022/10/19
Vector Signal generator	Agilent	N5181A	GRCTEE007	2021/10/30	2022/10/29
Analog Signal Generator	R&S	SML03	GRCTEE006	2021/10/30	2022/10/29
Climate Chamber	QIYA	LCD-9530	GRCTES016	2021/10/30	2022/10/29
Ultra-Broadband Antenna	Schwarzbeck	VULB9163	GRCTEE018	2020/10/25	2023/10/24
Horn Antenna	Schwarzbeck	BBHA 9120D	GRCTEE019	2020/10/25	2023/10/24
Loop Antenna	Zhinan	ZN30900C	GRCTEE020	2020/10/25	2023/10/24
Horn Antenna	Beijing Hangwei Dayang	OBH100400	GRCTEE049	2021/1/18	2024/1/17
Amplifier	Schwarzbeck	BBV 9745	GRCTEE021	2021/10/30	2022/10/29
Amplifier	Taiwan chengyi	EMC051845B	GRCTEE022	2021/10/30	2022/10/29
Temperature/Humidity Meter	Huaguan	HG-308	GRCTES037	2021/10/30	2022/10/29
Directional coupler	NARDA	4226-10	GRCTEE004	2021/10/30	2022/10/29
High-Pass Filter	XingBo	XBLBQ-GTA18	GRCTEE053	2021/10/30	2022/10/29
High-Pass Filter	XingBo	XBLBQ-GTA27	GRCTEE054	2021/10/30	2022/10/29
Automated filter bank	Tonscend	JS0806-F	GRCTEE055	2021/10/30	2022/10/29
Power Sensor	Agilent	U2021XA	GRCTEE070	2021/10/30	2022/10/29
EMI Test Software	ROHDE & SCHWARZ	ESK1-V1.71	GRCTEE060	N/A	N/A
EMI Test Software	Fera	EZ-EMC	GRCTEE061	N/A	N/A

4 TEST CONDITIONS AND RESULTS

4.1 AC Power Conducted Emission

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 tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10-2013.
- 2 Support equipment, if needed, was placed as per ANSI C63.10-2013
- 3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2013
- 4 The EUT received power from adapter, the adapter received AC120V/60Hz and AC 240V/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.

AC Power Conducted Emission Limit

For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following:

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 RESULTS

Remark:

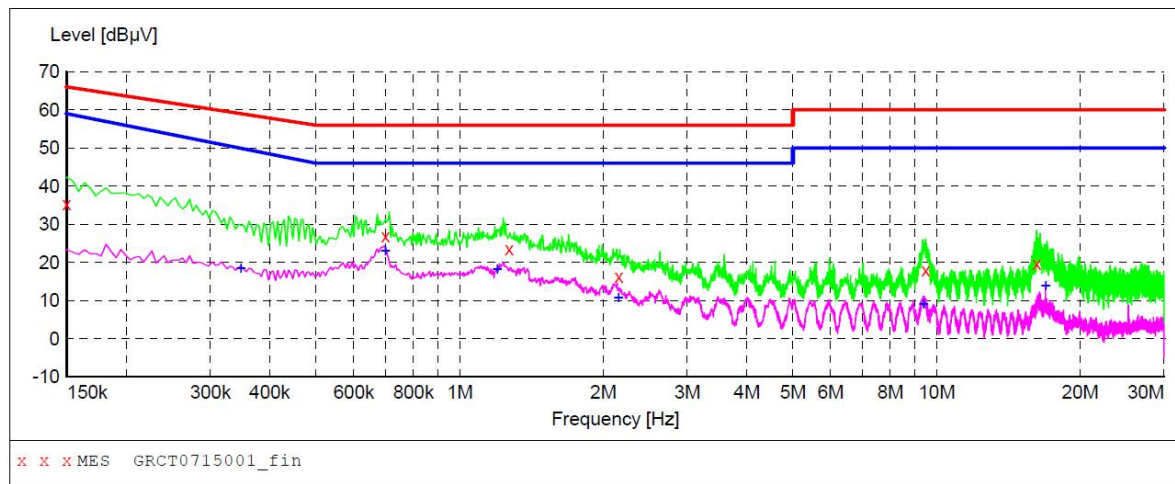
1. Both 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz power supply have been tested, only the worst result of 120 VAC, 60 Hz was reported as below:

Power supply:

DC 5V from Adapter
AC 120V/60Hz

Polarization

L

**MEASUREMENT RESULT: "GRCT0715001_fin"**

7/15/2022 9:39AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.150000	35.40	9.7	66	30.6	QP	L1	GND
0.699000	26.90	9.7	56	29.1	QP	L1	GND
1.270500	23.50	9.9	56	32.5	QP	L1	GND
2.157000	16.30	9.9	56	39.7	QP	L1	GND
9.483000	17.90	10.1	60	42.1	QP	L1	GND
16.228500	19.80	10.2	60	40.2	QP	L1	GND

MEASUREMENT RESULT: "GRCT0715001_fin2"

7/15/2022 9:39AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.348000	18.40	9.7	50	31.5	AV	L1	GND
0.699000	23.00	9.7	46	23.0	AV	L1	GND
1.198500	18.20	9.9	46	27.8	AV	L1	GND
2.152500	10.80	9.9	46	35.2	AV	L1	GND
9.393000	9.20	10.1	50	40.8	AV	L1	GND
16.935000	13.90	10.2	50	36.1	AV	L1	GND

Note:1).Level (dBμV)= Reading (dBμV)+ Transducer (dB)

2). Transducer (dB)=insertion loss of LISN (dB) + Cable loss (dB)

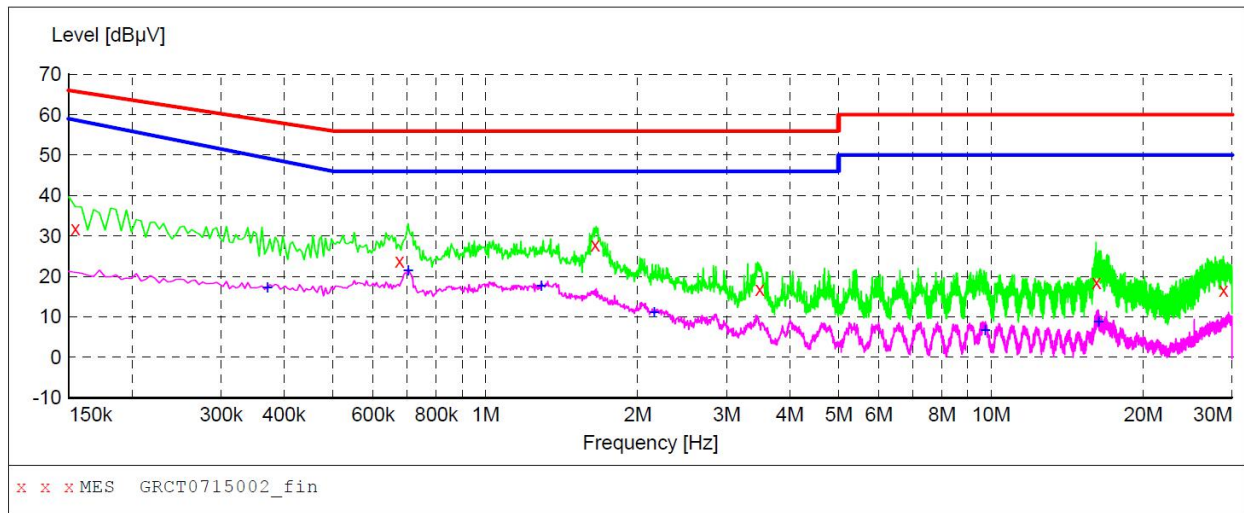
3). Margin(dB) = Limit (dBμV) - Level (dBμV)

Power supply:

DC 5V from Adapter
AC 120V/60Hz

Polarization

N

**MEASUREMENT RESULT: "GRCT0715002_fin"**

7/15/2022 9:44AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.154500	31.90	9.7	66	33.9	QP	N	GND
0.676500	23.80	9.7	56	32.2	QP	N	GND
1.648500	27.90	9.9	56	28.1	QP	N	GND
3.493500	16.80	9.9	56	39.2	QP	N	GND
16.170000	18.50	10.2	60	41.5	QP	N	GND
28.846500	16.70	10.0	60	43.3	QP	N	GND

MEASUREMENT RESULT: "GRCT0715002_fin2"

7/15/2022 9:44AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.370500	17.30	9.7	49	31.9	AV	N	GND
0.703500	21.60	9.8	46	24.4	AV	N	GND
1.288500	17.60	9.9	46	28.4	AV	N	GND
2.157000	11.10	9.9	46	34.9	AV	N	GND
9.748500	6.70	10.1	50	43.3	AV	N	GND
16.332000	8.80	10.2	50	41.2	AV	N	GND

Note:1).Level (dBμV)= Reading (dBμV)+ Transducer (dB)

2). Transducer (dB)=insertion loss of LISN (dB) + Cable loss (dB)

3). Margin(dB) = Limit (dBμV) - Level (dBμV)

4.2 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 (dB μ V/m)	Radiated (μ V/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

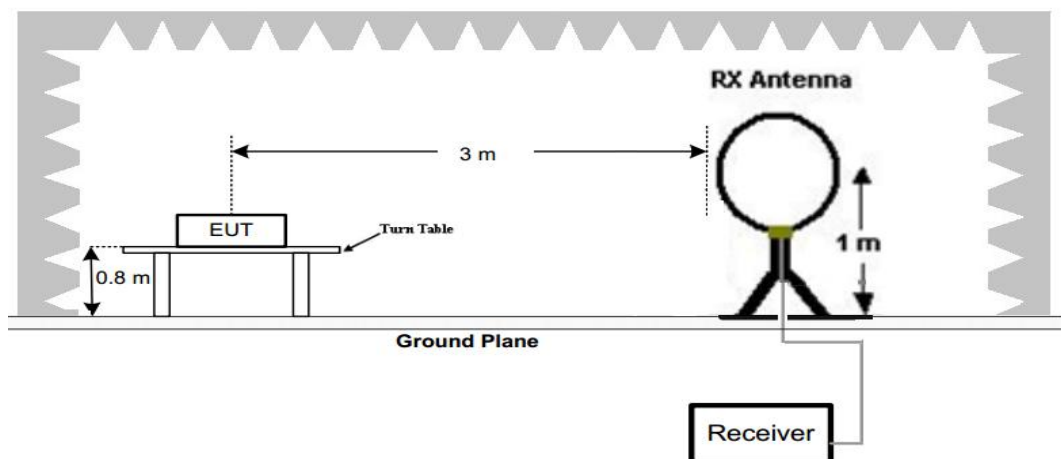
In addition to the provisions of 15.231(b), the field strength of emissions from intentional radiators operated under this section shall not exceed the following:

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

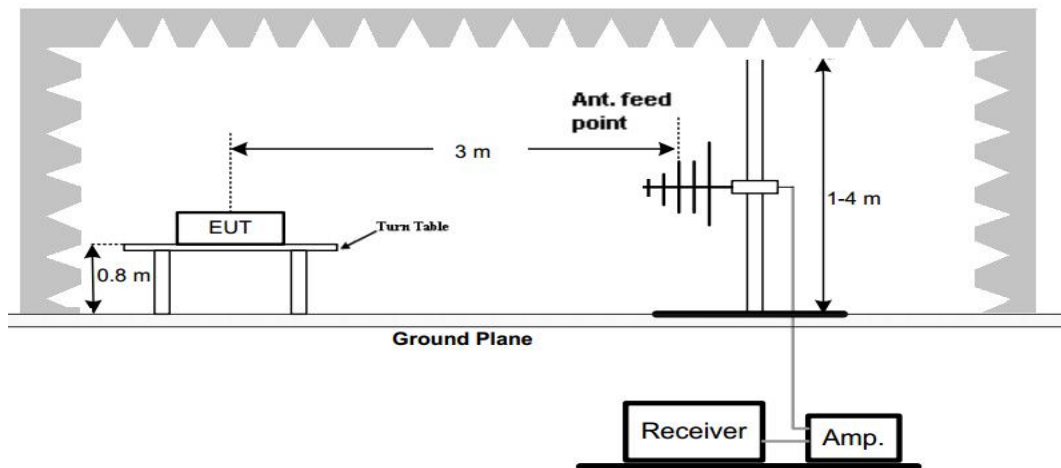
¹ Linear interpolations.

TEST CONFIGURATION

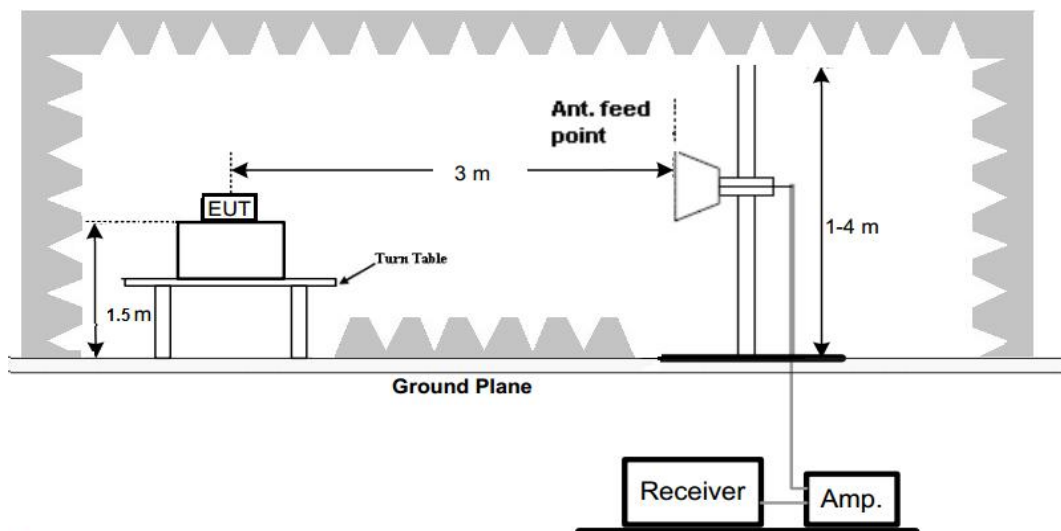
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(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 5GHz are measured peak and average level, below 1 GHz measured QP level, detailed test data please see below. Besides, we tested 3 directions and recorded the worst data.

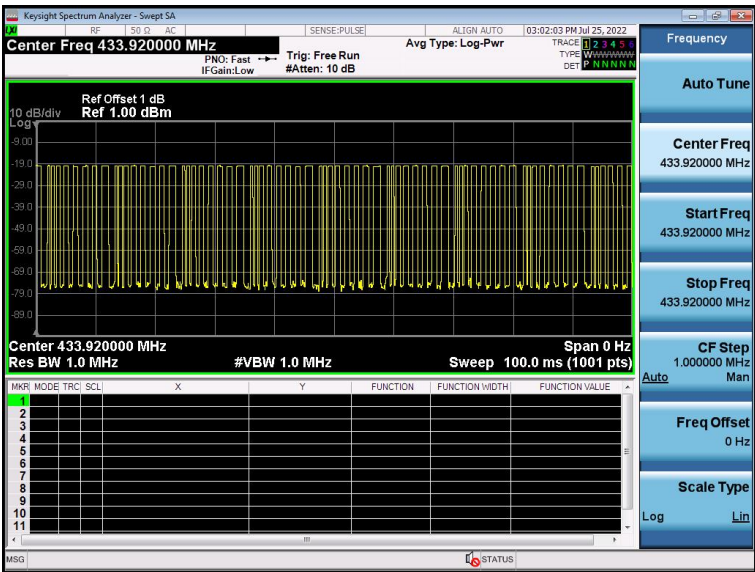
Emission Styles	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Direction (H/V)
Fundamental	433.9200	90.26	-14.92	75.34	100.83	25.49	PK	H
Spurious	315.4808	46.92	-16.79	30.13	46	15.87	PK	H
Harmonics	867.8400	65.37	-8.01	57.36	80.83	23.47	PK	H
Harmonics	1301.7600	68.34	-27.62	40.72	74	33.28	PK	H
--	--	--	--	--	--	--	--	--
Fundamental	433.9200	91.83	-14.92	76.91	100.83	23.92	PK	V
Spurious	315.4808	44.71	-16.79	27.92	46	18.08	PK	V
Harmonics	867.8400	63.67	-8.01	55.66	80.83	25.17	PK	V
Harmonics	1301.7600	68.05	-27.62	40.43	74	33.57	PK	V
--	--	--	--	--	--	--	--	--

Emission Styles	Frequency (MHz)	PK Level (dBuV/m)	AV Factor (dB/m)	AV Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Direction (H/V)
Fundamental	433.9200	75.34	-7.75	67.59	80.83	13.24	H
Harmonics	867.8400	57.36	-7.75	49.61	60.83	11.22	H
Harmonics	1301.7600	40.72	-7.75	32.97	54.00	21.03	H
--	--	--	--	--	--	--	--
Fundamental	433.9200	76.91	-7.75	69.16	80.83	11.67	V
Harmonics	867.8400	55.66	-7.75	47.91	60.83	12.92	V
Harmonics	1301.7600	40.43	-7.75	32.68	54.00	21.32	V
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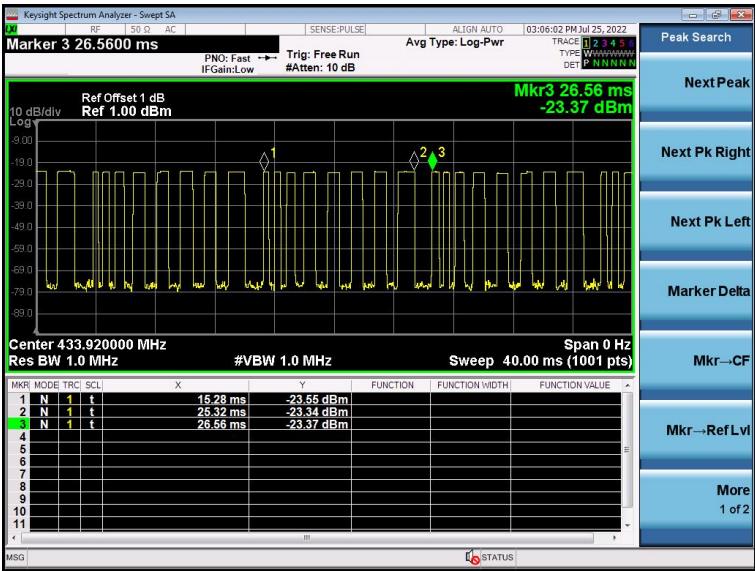
Note:

1. Level (dBuV/m)= Reading (dBuV)+Factor(dB/m)
2. AV Level (dBuV/m)= PK Level (dBuV/m)+ AV Factor(dB)
3. In a transmit cycle period found burst 8pcs, the Duty Cycle can calculate as below:
Duty Cycle=(0.35*3+0.52*2+0.74*2+1.05*1)/11.28=4.62/11.28=0.4096
AV Factor=20*log(Duty Cycle)=20*log(0.4096)=-7.75

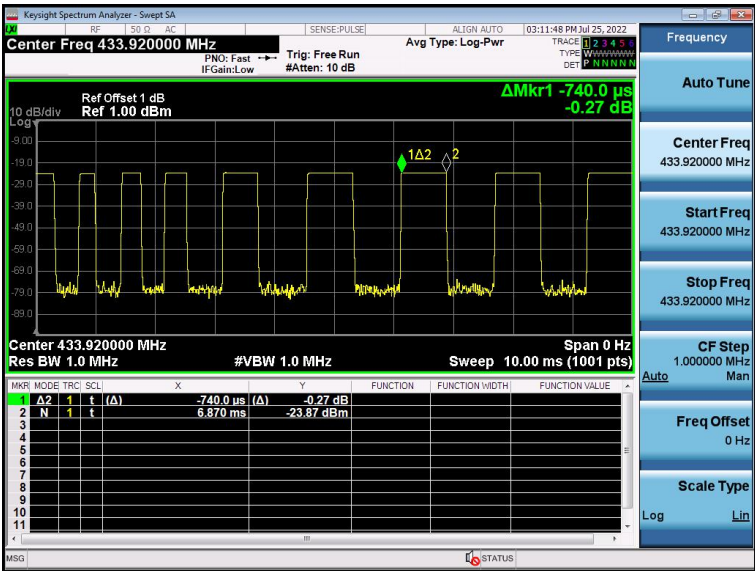
(The plot of Duty Cycle See the follow page)



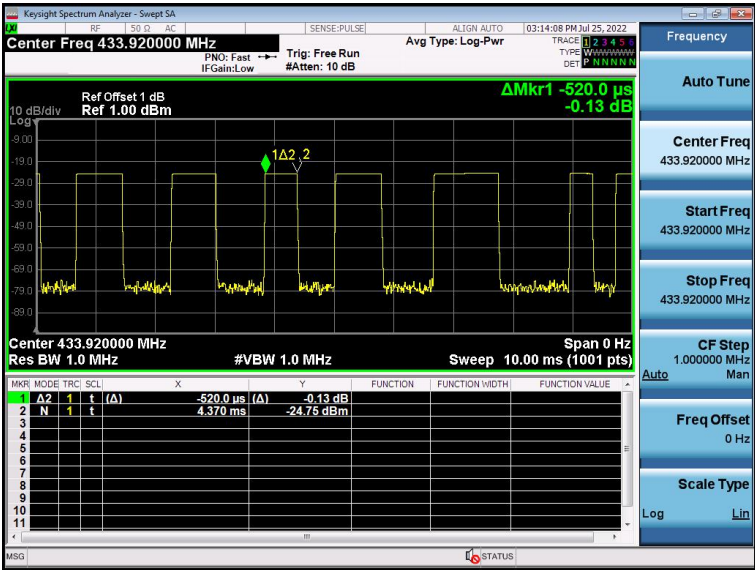
(Transmit plot)



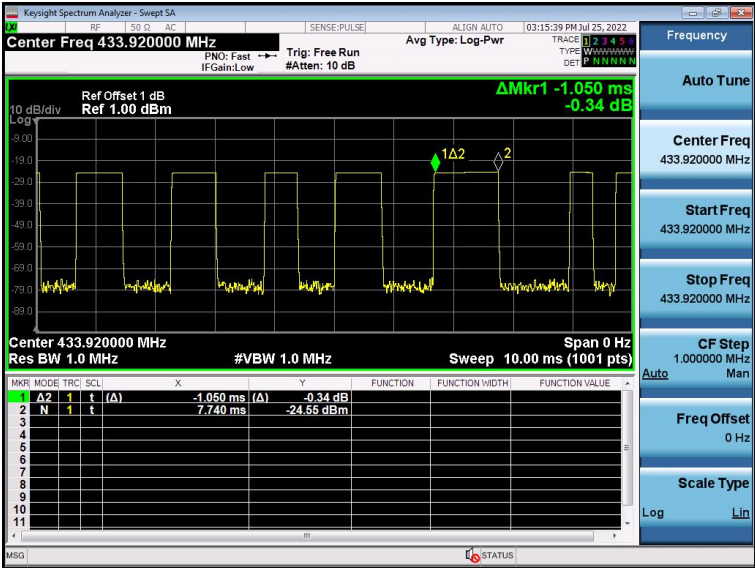
(Transmit cycle 11.28ms)



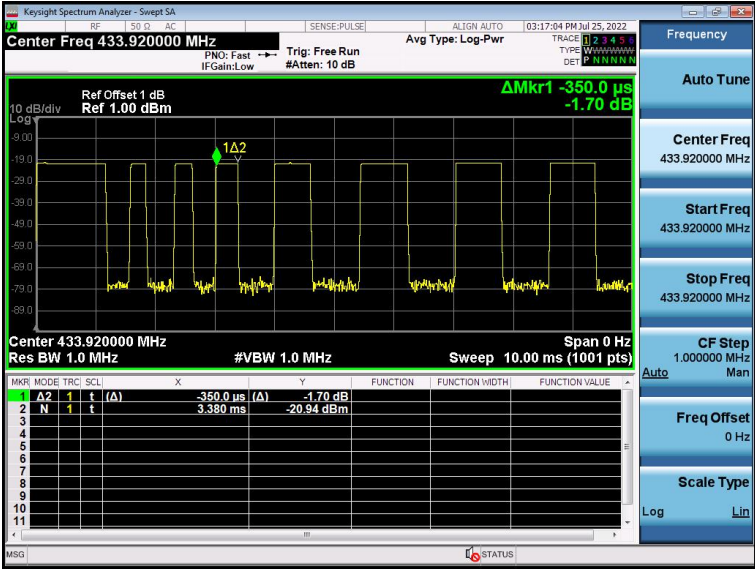
(Time per burst: 0.74ms*2pcs)



(Time per burst: 0.52ms*2pcs)



(Time per burst: 1.05ms*1pcs)



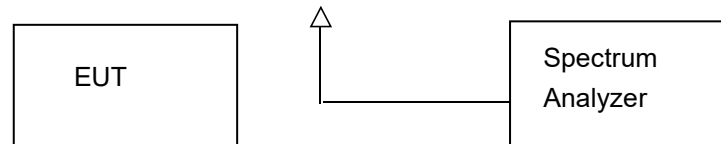
(Time per burst: 0.35ms*3pcs)

4.3 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.

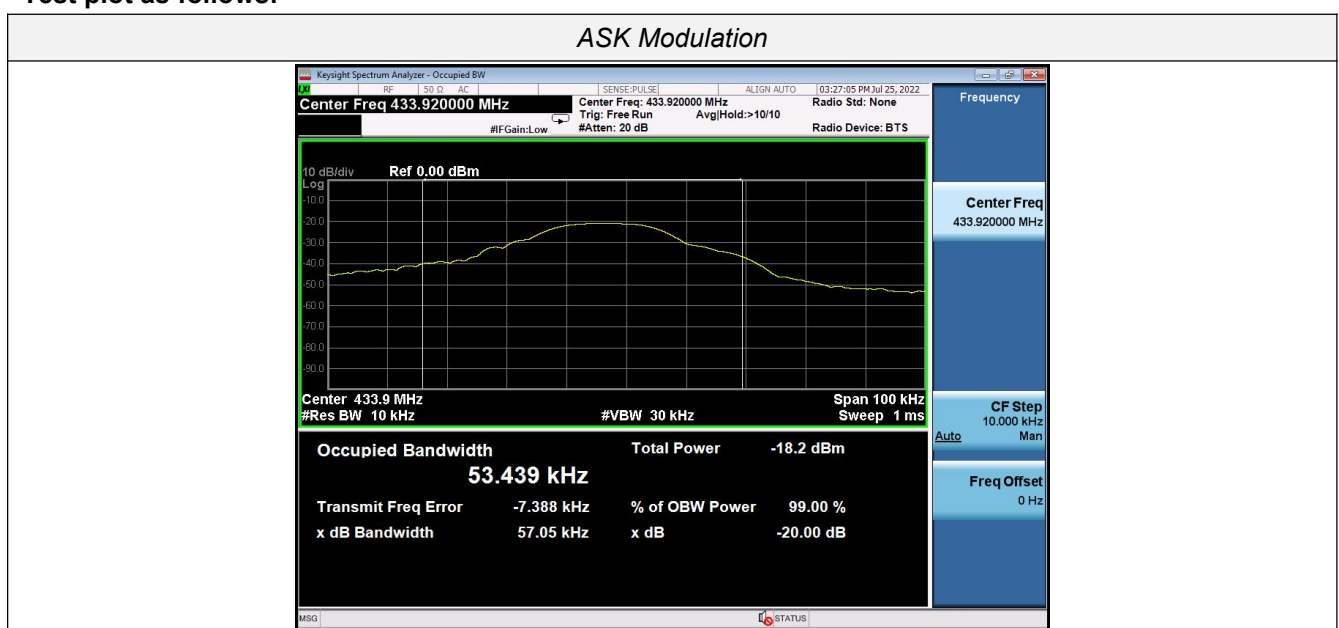
The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

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	433.92	53.439	57.05	$0.25 \times 433.920 = 108.48$	Pass

Test plot as follows:

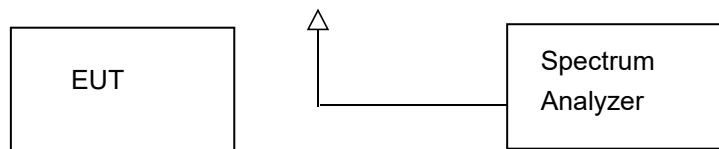


4.4 Deactivation Time

Limit

According to FCC §15.231(a)(2), A transmitter activated automatically shall cease transmission within 5 seconds after activation.

Test Configuration



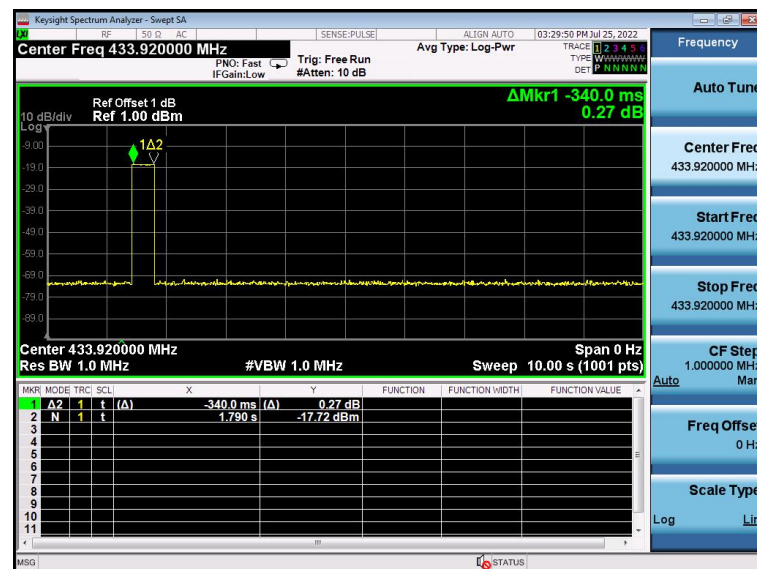
Test Procedure

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: The transmitter was automatically activated, and the carrier frequency 433.8152MHz:

Frequency (MHz)	One transmission time (S)	Limit(S)	Result
433.92	0.34	5	Pass



4.5 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.

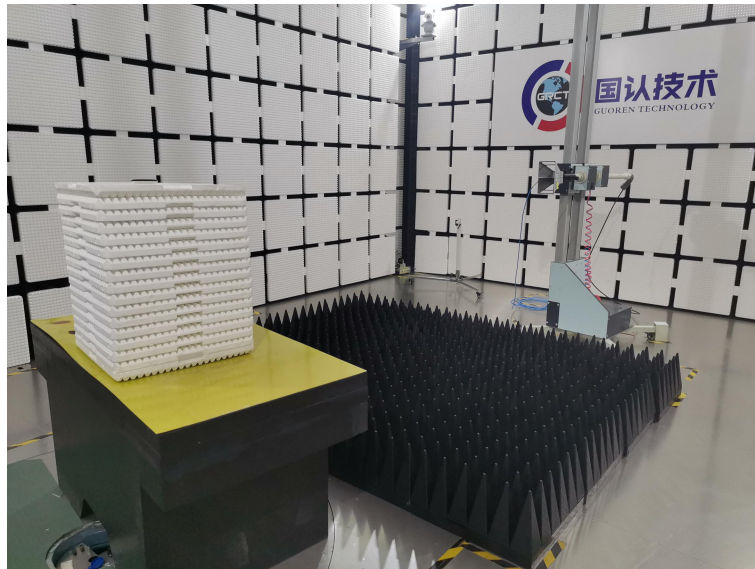
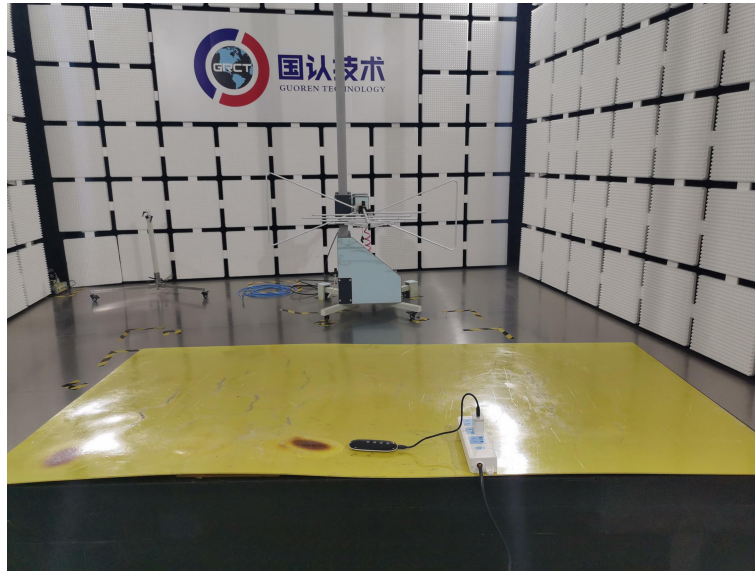
The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

Antenna Connected Construction

The maximum gain of antenna was 0.0 dBi.

Remark: The antenna gain is provided by the customer, if the data provided by the customer is not accurate, Shenzhen GUOREN Certification Technology Service Co., Ltd. does not assume any responsibility.

5 Test Setup Photos of the EUT

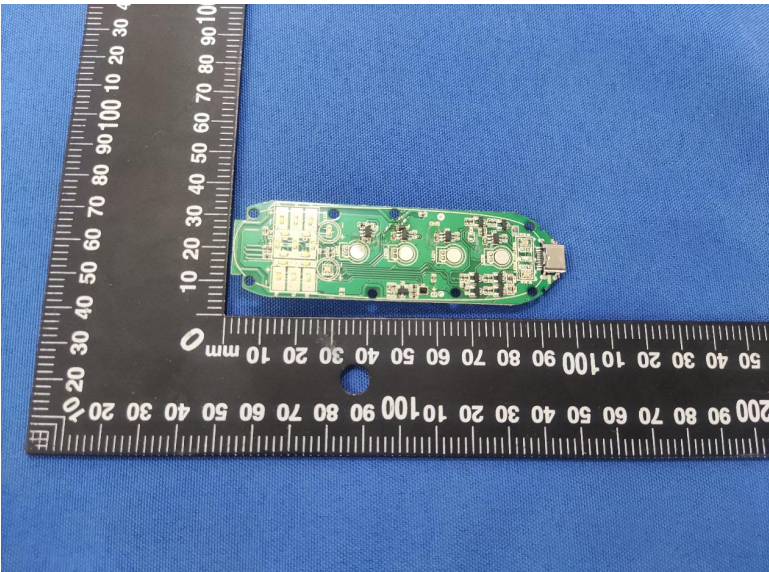
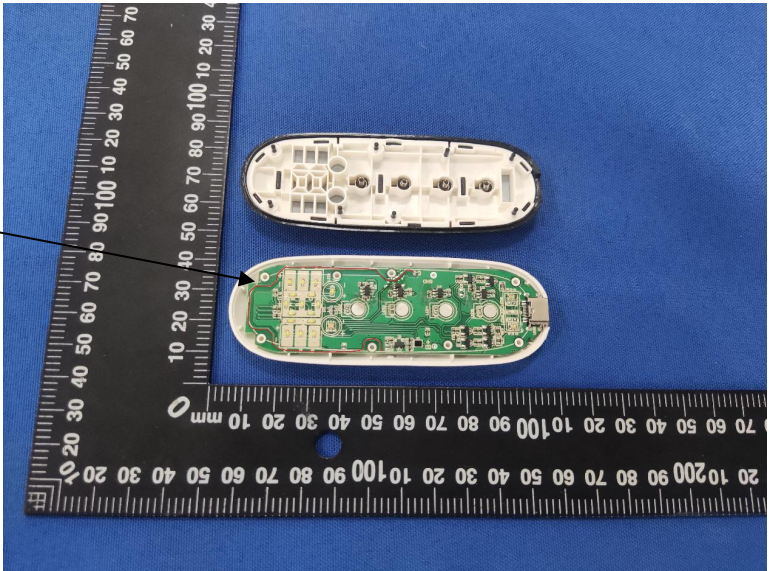


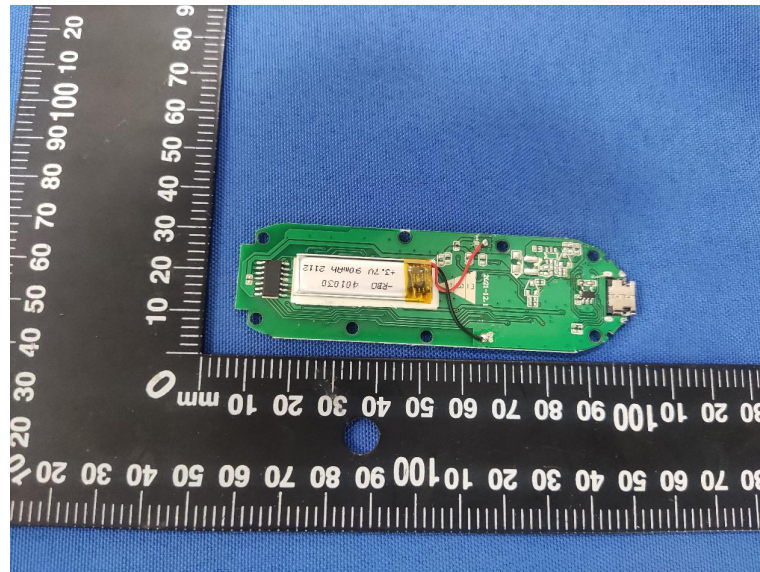
6 Photos of the EUT





Antenna





These are the receiving part, it has only the receiving function.



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