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# FCC Test Report

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Report No.: AGC07581201102FE06

**FCC ID** : 2AV9TDS-BEACON-05

**APPLICATION PURPOSE** : Original Equipment

**PRODUCT DESIGNATION** : Card Beacon

**BRAND NAME** : DS

**MODEL NAME** : DS-Beacon-05A/B

**APPLICANT** : SHENZHEN DEASINO TECHNOLOGY CO., LTD

**DATE OF ISSUE** : Jan. 09, 2021

**STANDARD(S)** : FCC Rules and Regulations Part 15 Subpart C Section 15.225

**REPORT VERSION** : V1.0

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**REPORT REVISE RECORD**

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jan. 09, 2021	Valid	Initial Release

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## 1. VERIFICATION OF COMPLIANCE

<b>Applicant</b>	SHENZHEN DEASINO TECHNOLOGY CO., LTD
<b>Address</b>	Floor3B. 4Building, YongQi Technology Park. YinTian Industrial Zone. XiXiang. BaoAn District ShenZhen
<b>Manufacturer</b>	SHENZHEN DEASINO TECHNOLOGY CO., LTD
<b>Address</b>	Floor3B. 4Building, YongQi Technology Park. YinTian Industrial Zone. XiXiang. BaoAn District ShenZhen
<b>Factory</b>	SHENZHEN DEASINO TECHNOLOGY CO., LTD
<b>Address</b>	Floor3B. 4Building, YongQi Technology Park. YinTian Industrial Zone. XiXiang. BaoAn District ShenZhen
<b>Product Designation</b>	Card Beacon
<b>Brand Name</b>	DS
<b>Test Model</b>	DS-Beacon-05A/B
<b>Date of test</b>	Dec. 30, 2020 to Jan. 07, 2021
<b>Deviation</b>	No any deviation from the test method
<b>Condition of Test Sample</b>	Normal
<b>Test Result</b>	Pass
<b>Report Template</b>	AGCRT-US-SRD/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC part 15.225.

Prepared By Eddy Liu  
Eddy Liu  
(Project Engineer) Jan. 07, 2021

Reviewed By Max Zhang  
Max Zhang  
(Reviewer) Jan. 09, 2021

Approved By Forrest Lei  
Forrest Lei  
(Authorized Officer) Jan. 09, 2021

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## 2. GENERAL INFORMATION

### 2.1. PRODUCT DESCRIPTION

The EUT is designed as a “Card Beacon”. It is designed by way of utilizing the ASK technology to achieve the system operation.

A major technical description of EUT is described as following

<b>Operation Frequency</b>	13.56MHz
<b>Max field strength</b>	62.22dBuV/m (Peak)
<b>Modulation</b>	ASK
<b>Number of channels</b>	1 Channel
<b>Antenna Designation</b>	Coil antenna(Comply with requirements of the FCC part 15.203)
<b>Antenna Gain</b>	0dBi
<b>Hardware Version</b>	DS-Beacon-05
<b>Software Version</b>	nRF5SDK160098a08e2
<b>Power Supply</b>	DC 3V by battery

### 2.2. TABLE OF CARRIER FREQUENCIES

Frequency Band	Channel Number	Frequency
13.110~14.010 MHz	01	13.56 MHz

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### 2.3. RELATED SUBMITTAL(S)/GRANT(S)

This submittal(s) (test report) is intended for **FCC ID: 2AV9TDS-BEACON-05** filing to comply with the FCC Part 15.247 requirements.

### 2.4. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

### 2.5. SPECIAL ACCESSORIES

Refer to section 5.2.

### 2.6. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

### 2.7. ANTENNA REQUIREMENT

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device. For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.

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### 3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95%.

- Uncertainty of Conducted Emission,  $U_c = \pm 3.1$  dB
- Uncertainty of Radiated Emission below 1GHz,  $U_c = \pm 3.9$  dB
- Uncertainty of Radiated Emission above 1GHz,  $U_c = \pm 4.8$  dB
- Uncertainty of total RF power, conducted,  $U_c = \pm 0.8$  dB
- Uncertainty of RF power density, conducted,  $U_c = \pm 2.6$  dB
- Uncertainty of spurious emissions, conducted,  $U_c = \pm 2.7$  dB
- Uncertainty of Occupied Channel Bandwidth:  $U_c = \pm 2$  %

### 4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Transmitting(13.56MHz)

Note:

1. Only the result of the worst case was recorded in the report, if no other cases.
2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
3. For Conducted Test method, a temporary antenna connector is provided by the manufacture.
4. For battery operated equipment, the equipment tests are performed using a new battery.
5. The test software is not applicable which can set the EUT into the individual test modes.

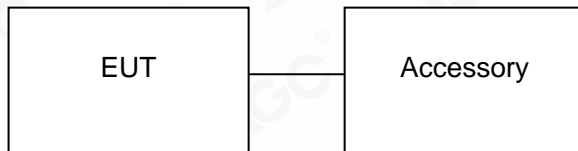
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## 5. SYSTEM TEST CONFIGURATION

### 5.1. CONFIGURATION OF TESTED SYSTEM

Radiated Emission Configure:



### 5.2. EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Card Beacon	DS-BEACON-05A/B	2AV9TDS-BEACON-05	EUT
2	Smart phone	Huawei	Mate 40	AE

### 5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
15.215(c)	20dB Spectrum Bandwidth	Compliant
15.225(e)	Frequency Stability	Compliant
15.225(a)(b)(c)	Field Strength of Fundamental Emissions	Compliant
15.225(d)&15.209	Radiated Emission	Compliant
15.207	AC Power Line Conducted Emissions	Not applicable

Note: The conducted emission tests at AC port are not required for devices which only employ battery power for operation.

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## 6. TEST FACILITY

<b>Test Site</b>	Attestation of Global Compliance (Shenzhen) Co., Ltd
<b>Location</b>	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
<b>Designation Number</b>	CN1259
<b>FCC Test Firm Registration Number</b>	975832
<b>A2LA Cert. No.</b>	5054.02
<b>Description</b>	Attestation of Global Compliance (Shenzhen) Co., Ltd is accredited by A2LA

### TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	May 15, 2020	May 14, 2021
EXA Signal Analyzer	Agilent	N9010A	MY53470504	Dec. 07, 2020	Dec. 06, 2021
2.4GHz Filter	EM Electronics	2400-2500MHz	N/A	Mar. 23, 2020	Mar. 22, 2022
Attenuator	ZHINAN	E-002	N/A	Sep. 09, 2019	Sep. 08, 2021
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 09, 2019	Sep. 08, 2021
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	May 22, 2020	May 21, 2022
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 17, 2019	May 16, 2021
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 03, 2020	Sep. 02, 2022
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 09, 2019	Jan. 08, 2021
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A

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## 7. RADIATED EMISSION

### 3.1. TEST LIMIT

Rules and specifications	FCC CFR 47 Part 15 section 15.225			
Description	Compliance with the spectrum mask is tested with RBW set to 9kHz.			
Freq. of Emission (MHz)	Field Strength (μV/m) at 30m	Field Strength (dBμV/m) at 30m	Field Strength (dBμV/m) at 10m	Field Strength (dBμV/m) at 3m
1.705~13.110	30	29.5	48.58	69.5
13.110~13.410	106	40.5	59.58	80.5
13.410~13.553	334	50.5	69.58	90.5
13.553~13.567	15848	84.0	103.08	124.0
13.567~13.710	334	50.5	69.58	90.5
13.710~14.010	106	40.5	59.58	80.5
14.010~30.000	30	29.5	48.58	69.5

According to 15.35, on any frequency or frequencies below or equal to 1000 MHz, the limits shown are based on measuring equipment employing a CISPR quasi-peak detector function and related measurement bandwidths, unless otherwise specified the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test.

The field strength of any emissions which appear outside of 13.110 ~14.010MHz band shall not exceed the general radiated emissions limits.

Frequencies (MHz)	Field Strength (μV/m)	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

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## 7.2. MEASUREMENT PROCEDURE

1. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/1MHz for Peak, 1MHz/10Hz for Average

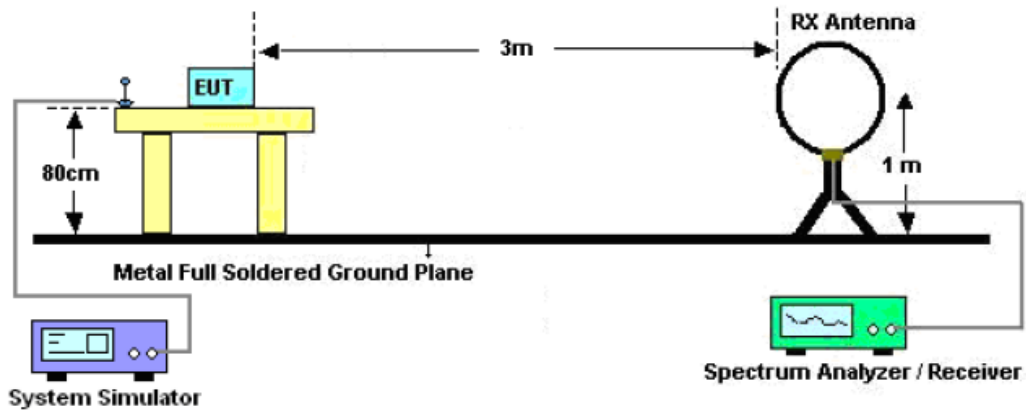
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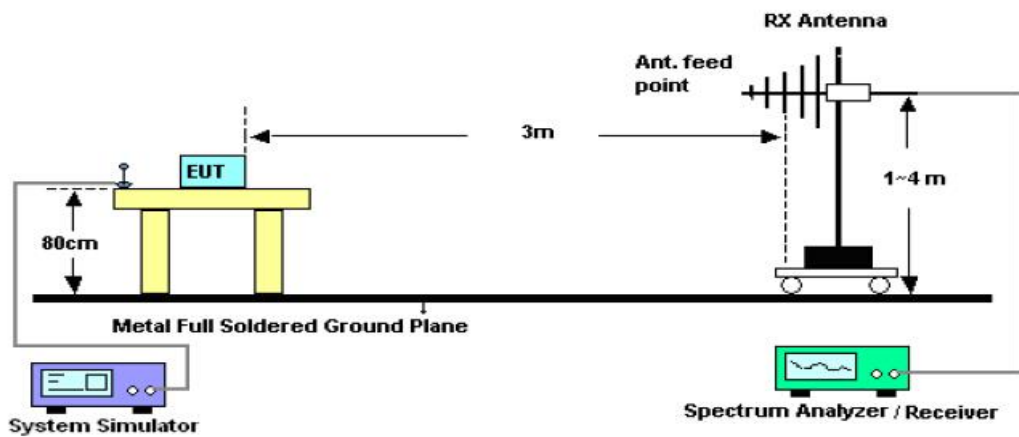
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

### 7.3. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



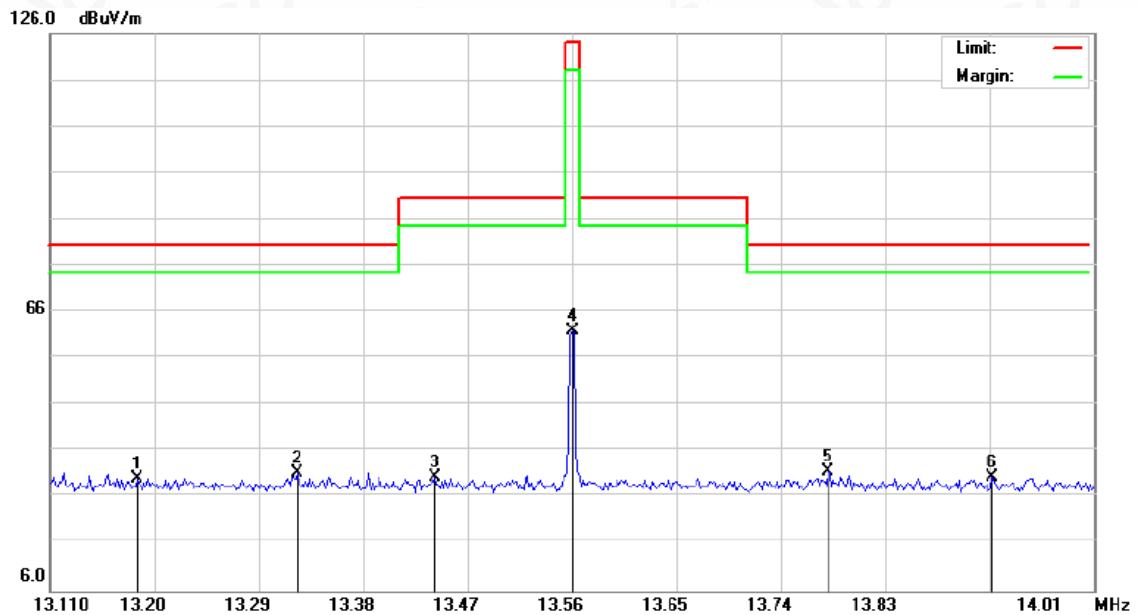
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### 7.4. TEST RESULT

#### RADIATED EMISSION BELOW 30MHZ

EUT:	Card Beacon	Model Name	DS-BEACON-05A/B
Temperature:	20 °C	Relative Humidity:	53%
Pressure:	1010hPa	Test Voltage :	Normal Voltage
Test Mode :	Mode 1	Polarization :	Face

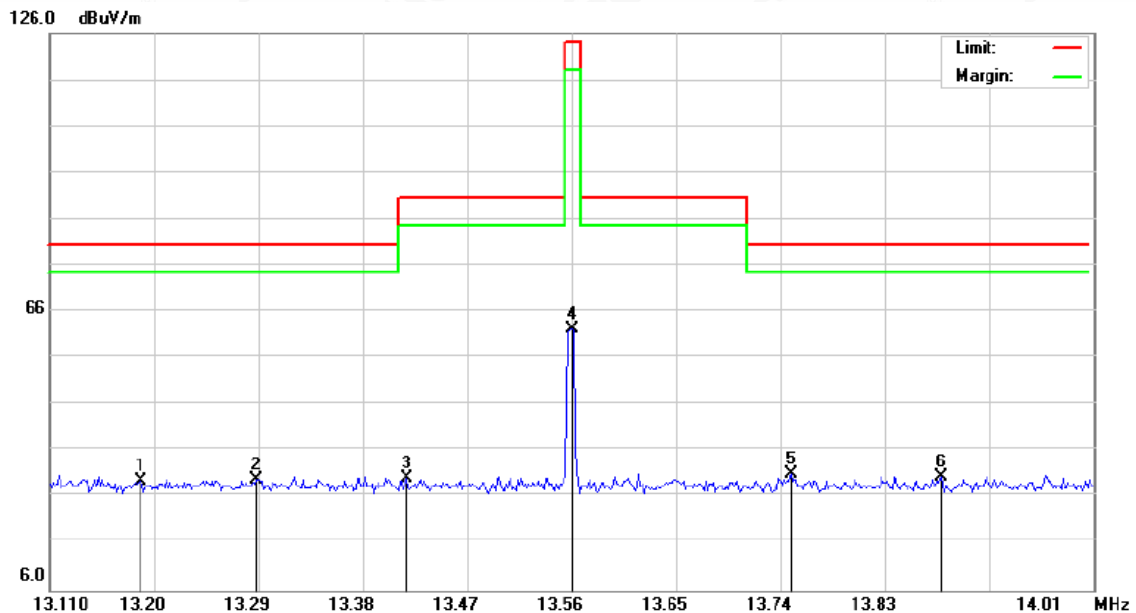


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		13.1850	5.52	24.61	30.13	80.50	-50.37	peak
2		13.3230	6.63	24.62	31.25	80.50	-49.25	peak
3		13.4413	5.96	24.63	30.59	90.50	-59.91	peak
4		13.5600	37.31	24.64	61.95	124.0	-62.05	peak
5	*	13.7804	6.91	24.66	31.57	80.50	-48.93	peak
6		13.9214	5.70	24.67	30.37	80.50	-50.13	peak

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EUT:	Card Beacon	Model Name	DS-BEACON-05A/B
Temperature:	20 °C	Relative Humidity:	53%
Pressure:	1010 hPa	Test Voltage :	Normal Voltage
Test Mode :	Mode 1	Polarization :	Side



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		13.1880	4.96	24.61	29.57	80.50	-50.93	peak
2		13.2885	5.12	24.62	29.74	80.50	-50.76	peak
3		13.4175	5.53	24.63	30.16	90.50	-60.34	peak
4		13.5600	37.58	24.64	62.22	124.0	-61.78	peak
5	*	13.7490	6.51	24.65	31.16	80.50	-49.34	peak
6		13.8780	5.92	24.66	30.58	80.50	-49.92	peak

**Note:** Other emissions from 9kHz to 30MHz are attenuated 20dB below the limits, so it does not recorded in the report.

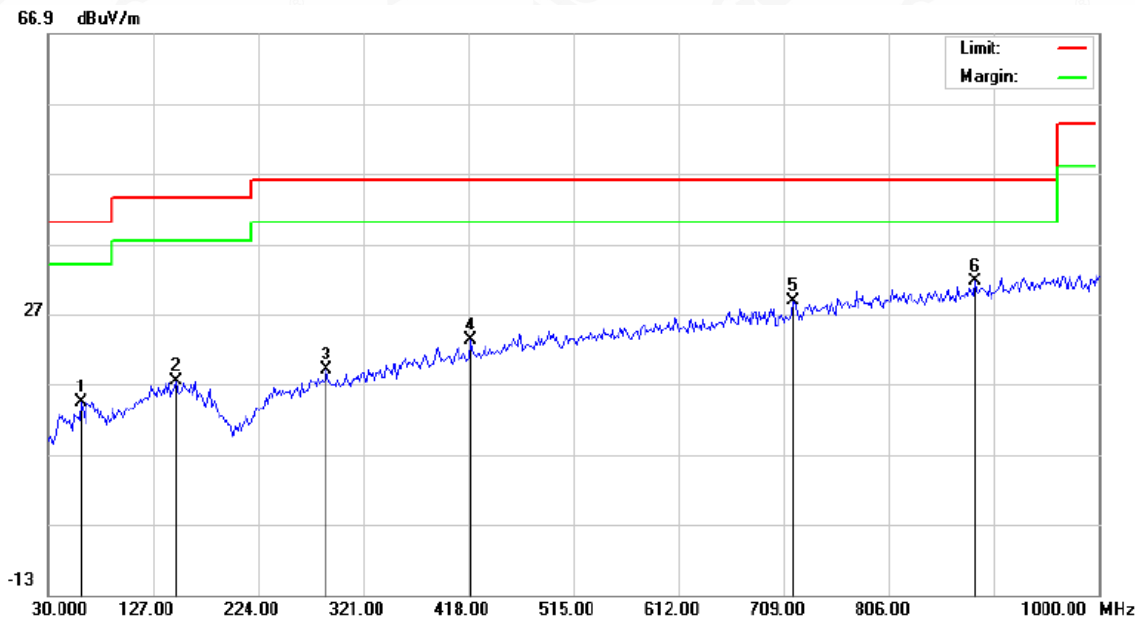
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**RADIATED EMISSION 30MHz- 1GHz**

EUT:	Card Beacon	Model Name	DS-BEACON-05A/B
Temperature:	20 °C	Relative Humidity:	53%
Pressure:	1010 hPa	Test Voltage :	Normal Voltage
Test Mode :	Mode 1	Polarization :	Horizontal



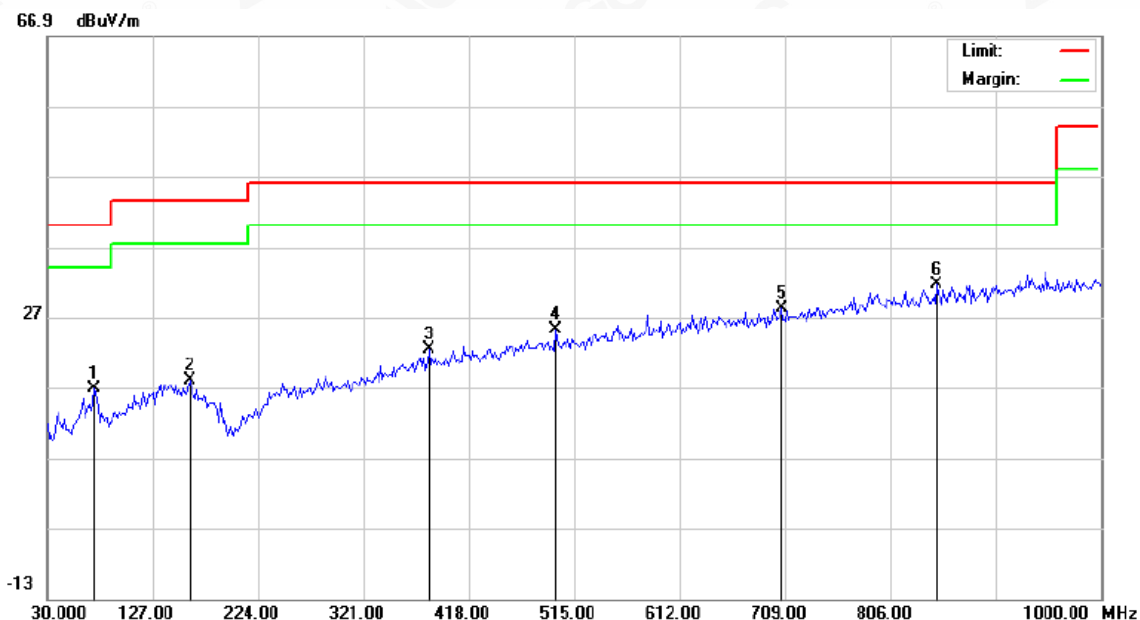
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		60.7167	-1.58	15.96	14.38	40.00	-25.62	peak
2		148.0167	-1.72	19.21	17.49	43.50	-26.01	peak
3		287.0500	-0.81	19.77	18.96	46.00	-27.04	peak
4		419.6167	-0.10	23.37	23.27	46.00	-22.73	peak
5		717.0833	0.19	28.54	28.73	46.00	-17.27	peak
6	*	885.2167	0.16	31.51	31.67	46.00	-14.33	peak

**RESULT: PASS**

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EUT:	Card Beacon	Model Name	DS-BEACON-05A/B
Temperature:	20 °C	Relative Humidity:	53%
Pressure:	1010 hPa	Test Voltage :	Normal Voltage
Test Mode :	Mode 1	Polarization :	Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		73.6500	0.44	16.32	16.76	40.00	-23.24	peak
2		160.9500	-1.14	19.09	17.95	43.50	-25.55	peak
3		380.8167	0.02	22.31	22.33	46.00	-23.67	peak
4		497.2167	0.25	24.93	25.18	46.00	-20.82	peak
5		705.7667	-0.02	28.28	28.26	46.00	-17.74	peak
6	*	848.0333	0.52	31.03	31.55	46.00	-14.45	peak

**RESULT: PASS**

**Note:**

Factor=Antenna Factor + Cable loss, Margin= Limit-Result.

The "Factor" value can be calculated automatically by software of measurement system.

The mode 1 is the worst case, and only the data of the worst case recorded in this test report.

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## 8. FREQUENCY STABILITY

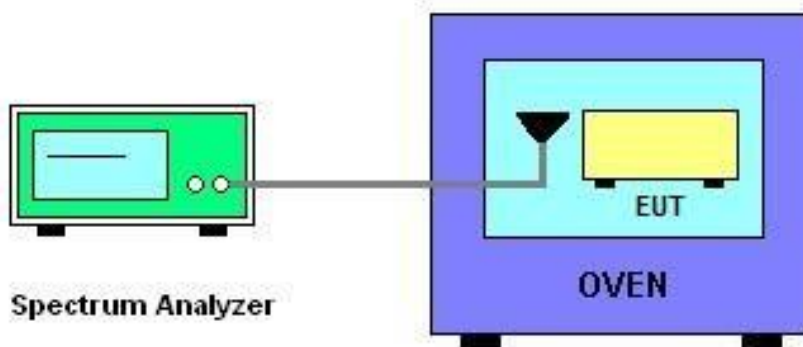
### 8.1. TEST LIMIT

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% (100ppm) of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

### 8.2. MEASUREMENT PROCEDURE

- 1.The spectrum analyzer connected via a receive antenna placed near the EUT.
- 2.EUT have transmitted signal and fixed channelize.
- 3.Set the spectrum analyzer span to view the entire emissions bandwidth.
- 4.Set RBW = 1 kHz, VBW = 3 kHz with peak detector and maxhold settings.
- 5.The fc is declaring of channel frequency. Then the frequency error formula is  $(f_c - f) / f_c \times 10^6$  ppm and the limit is less than  $\pm 100$ ppm.
- 6.Extreme temperature rule is -20°C~50°C.

### 8.3. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)



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### 8.4. MEASUREMENT RESULTS

Operating frequency: 13.56MHz

Voltage vs. Frequency Stability (Test Temperature: 20°C)

Voltage(V)	Measurement Frequency (MHz)	Max. Deviation (MHz)	Limit(MHz)	Conclusion
3.0	13.56076	0.00079	0.001356	PASS
2.7	13.56072			
3.3	13.56079			

Temperature vs. Frequency Stability (Test Voltage: 3.85V)

Temperature	Measurement Frequency (MHz)	Max. Deviation (MHz)	Limit(MHz)	Conclusion
-20°C	13.56072	0.00078	0.001356	PASS
-10°C	13.56076			
0°C	13.56074			
10°C	13.56071			
20°C	13.56078			
30°C	13.56074			
40°C	13.56073			

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## 9. 20 dB SPECTRUM BANDWIDTH

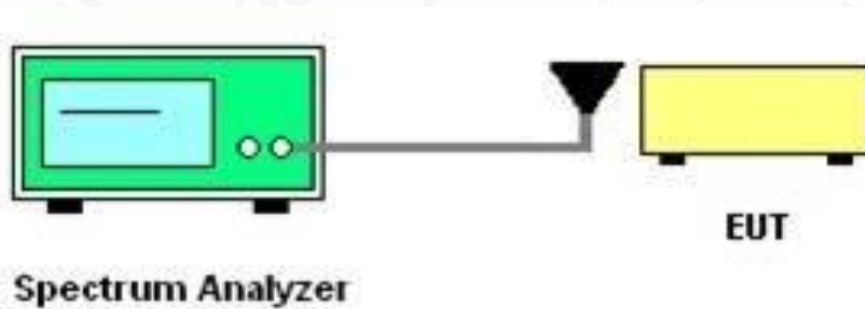
### 9.1. TEST LIMIT

Intentional radiators must be designed to ensure that the 20dB and 99% emission bandwidth in the specific band 13.553~13.567MHz

### 9.2. MEASUREMENT PROCEDURE

1. The spectrum analyzer connected via a receive antenna placed near the EUT in peak Max hold mode.
2. The resolution bandwidth of 10 kHz and the video bandwidth of 30 kHz were used.
3. Measured the spectrum width with power higher than 20dB below carrier.
4. Measured the 99% OBW.

### 9.3. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



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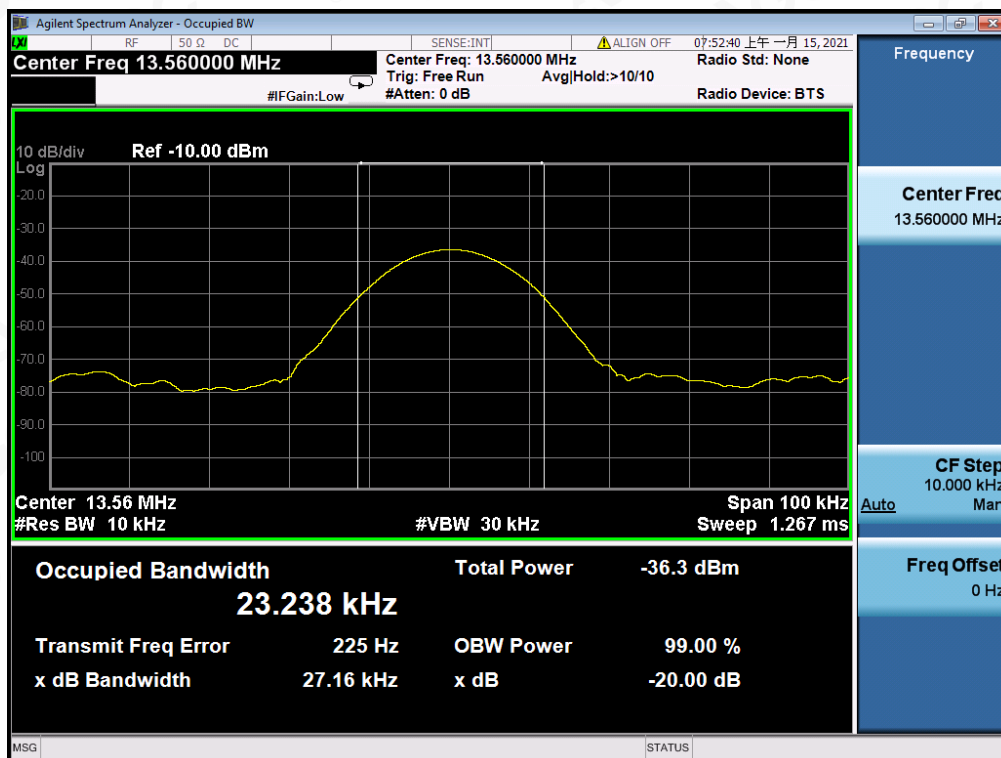
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### 9.4. MEASUREMENT RESULTS

TEST ITEM	20dB BANDWIDTH& 99%BANDWIDTH
TEST MODE	Mode1

Test Data (kHz)		Criteria
Occupied Bandwidth	23.238	PASS
-20dB Bandwidth	27.160	PASS



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## 10. AC LINE CONDUCTED EMISSION TEST

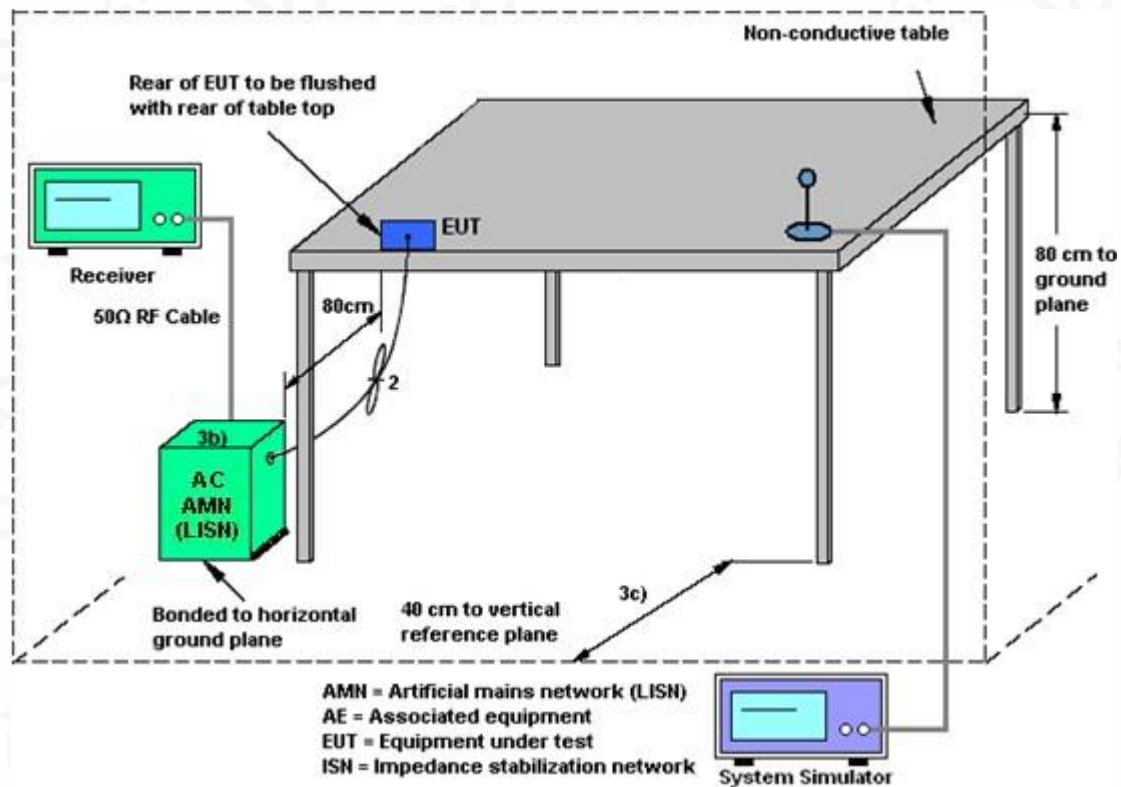
### 10.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.( dBuV)	Average( dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

### 10.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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### 10.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When 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 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipments received AC120V/60Hz power from a LISN, if any.
5. The EUT received charging voltage by adapter which received 120V/60Hz power by a LISN..
6. The 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.
9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

### 10.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less – 2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case condition(s) was reported on the Summary Data page.
- 4.

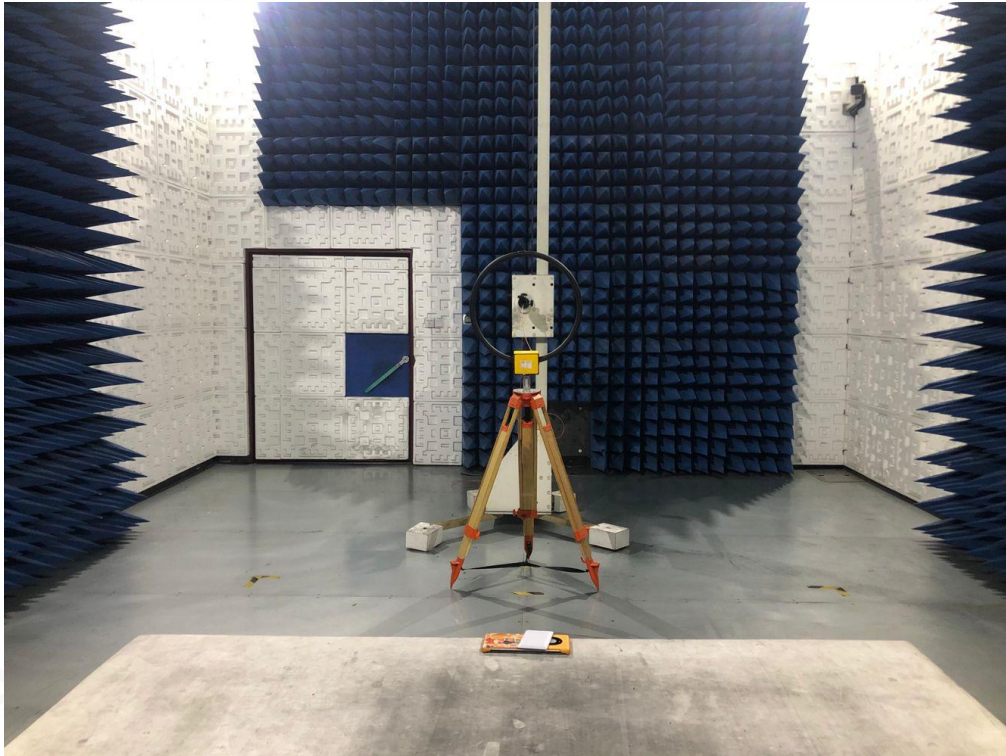
### 10.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

N/A

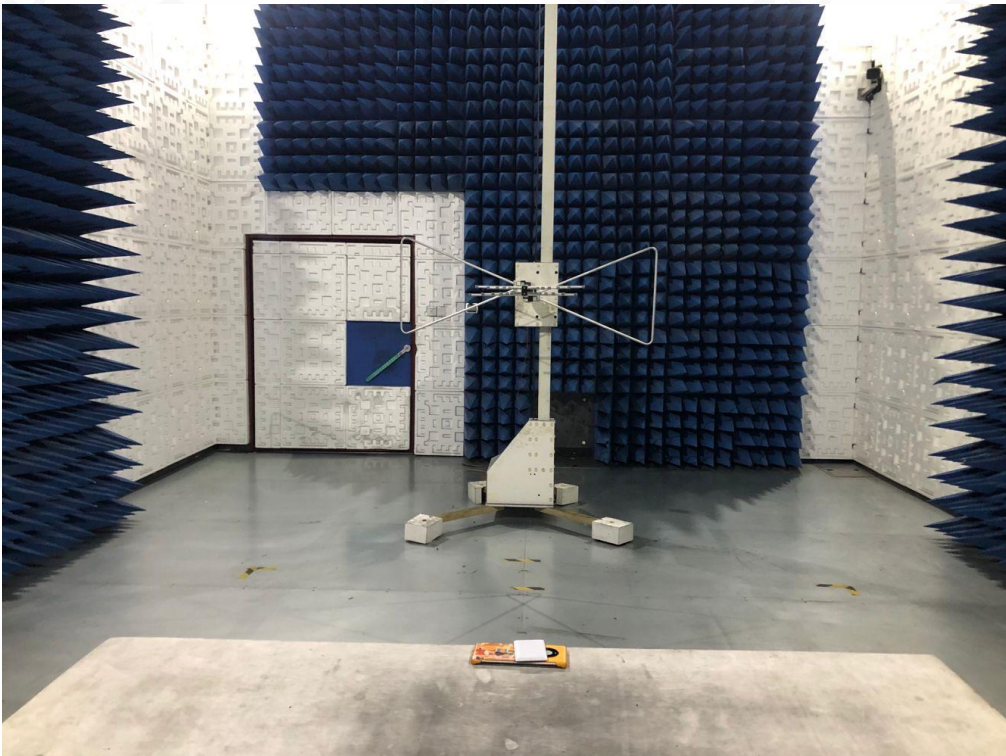
Note: The conducted emission tests at AC port are not required for devices which only employ battery power for operation.



**APPENDIX A: PHOTOGRAPHS OF TEST SETUP**  
**RADIATED EMISSION TEST SETUP BELOW 30MHz**



**RADIATED EMISSION TEST SETUP BELOW 1GHz**



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**APPENDIX B: PHOTOGRAPHS OF EUT**  
EXTERNAL VIEW-1 OF EUT



EXTERNAL VIEW-2 OF EUT



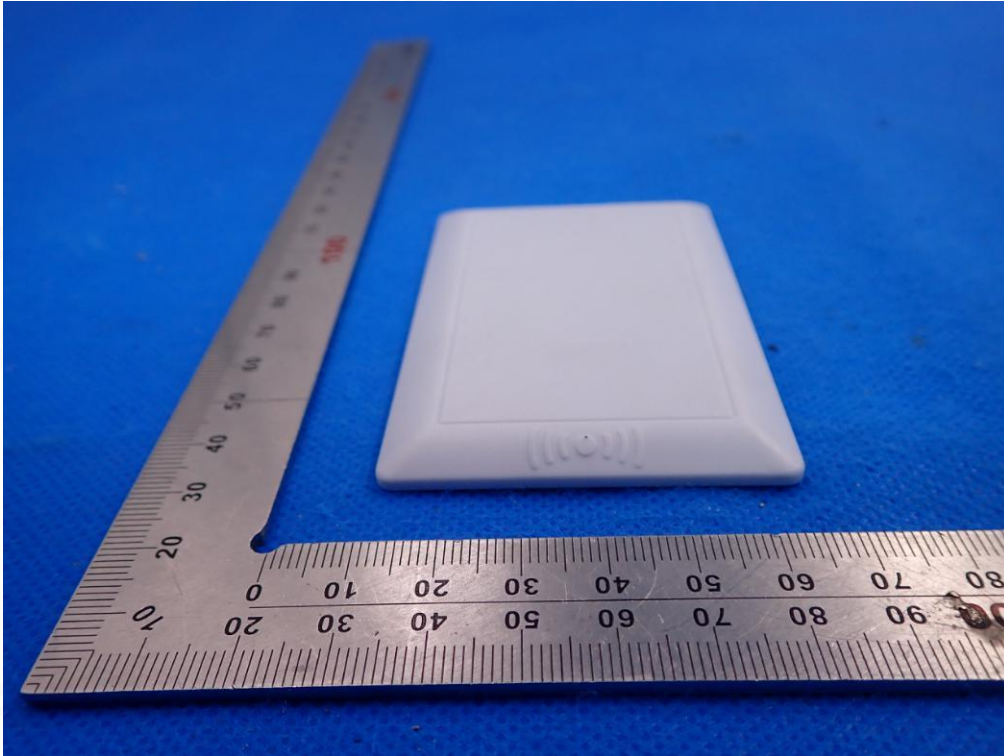
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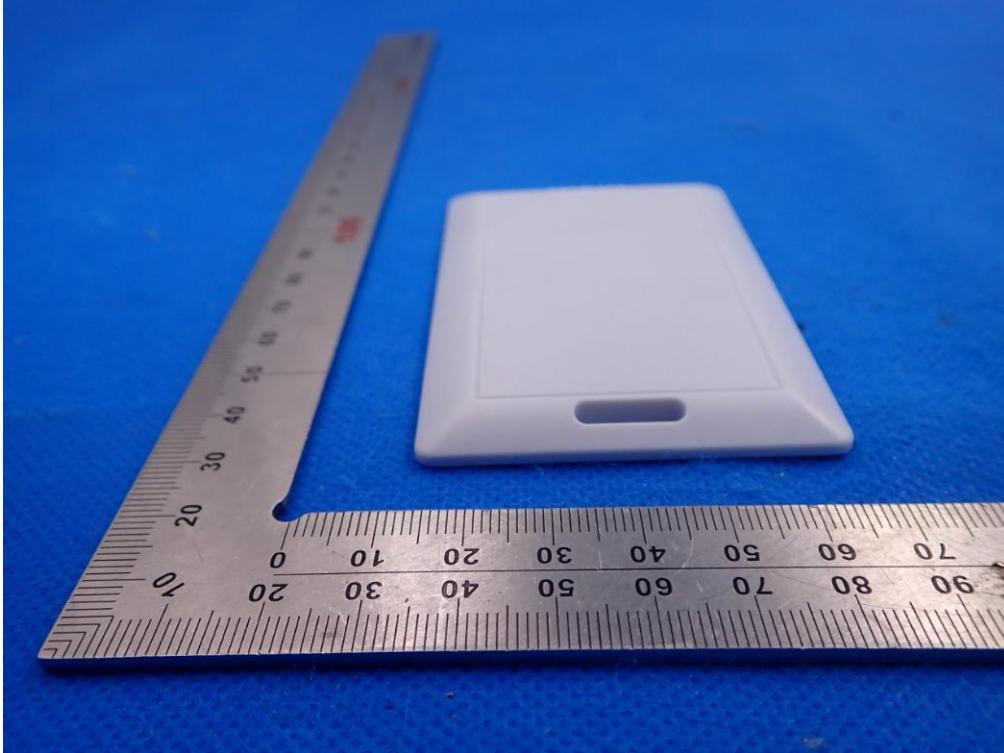




EXTERNAL VIEW-3 OF EUT



EXTERNAL VIEW-4 OF EUT

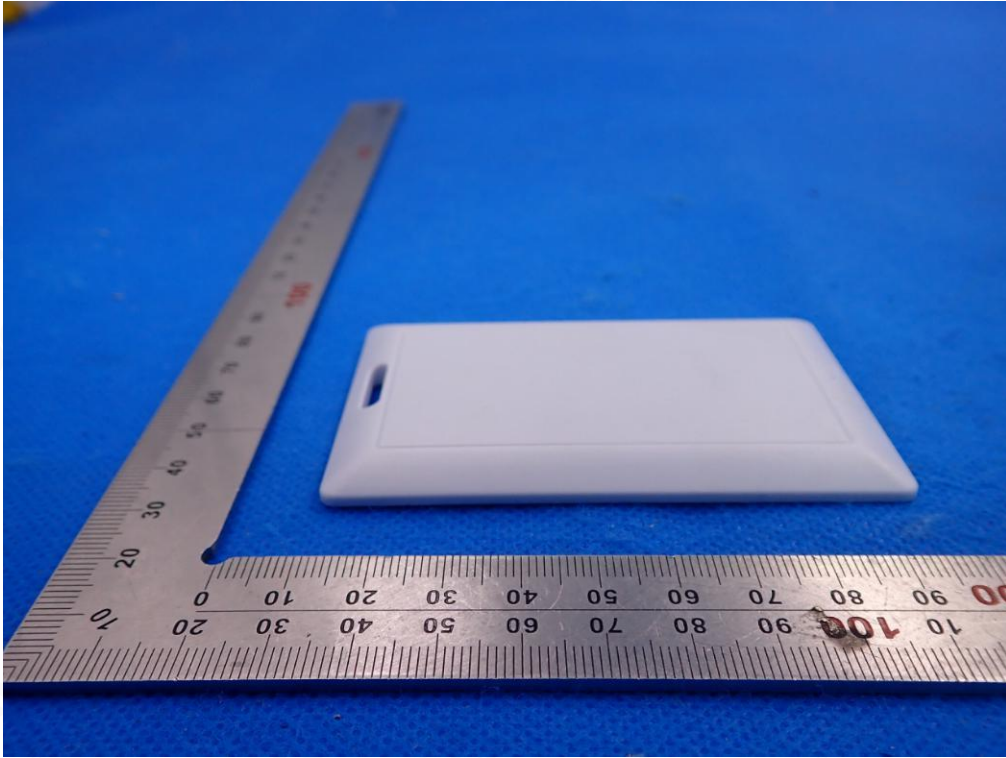


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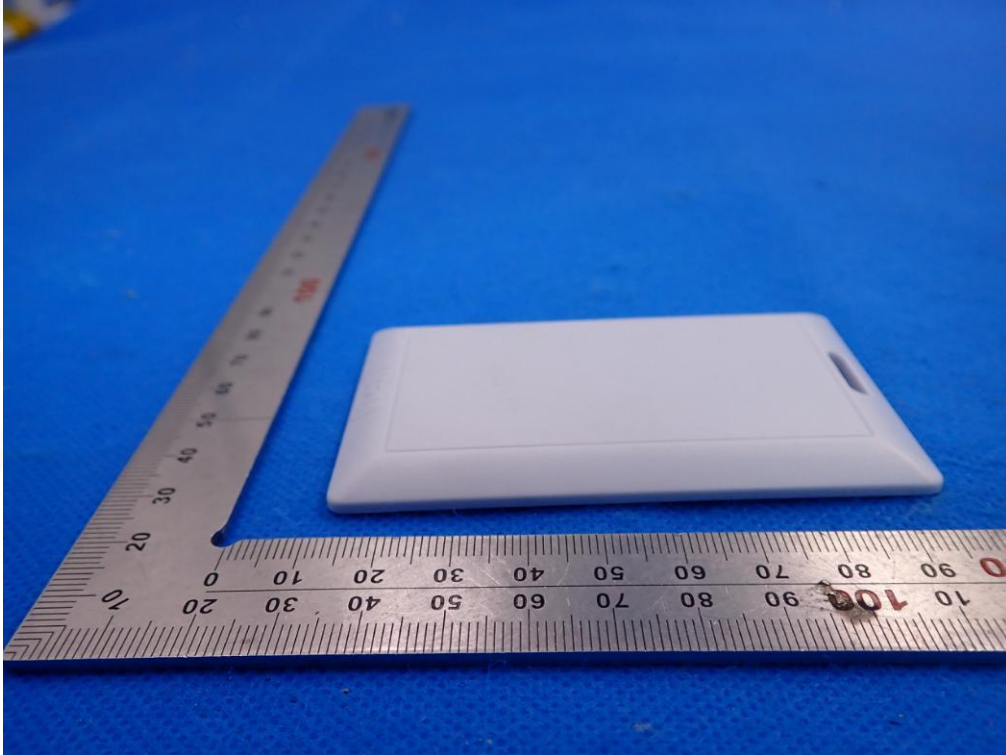
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EXTERNAL VIEW-5 OF EUT



EXTERNAL VIEW-6 OF EUT

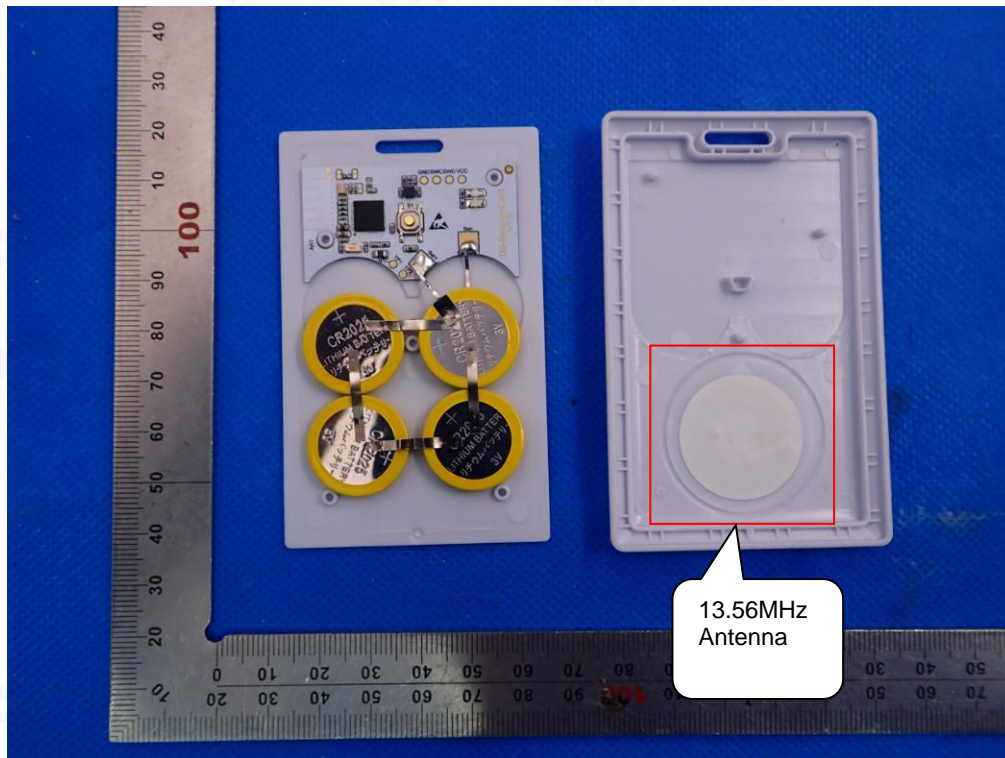


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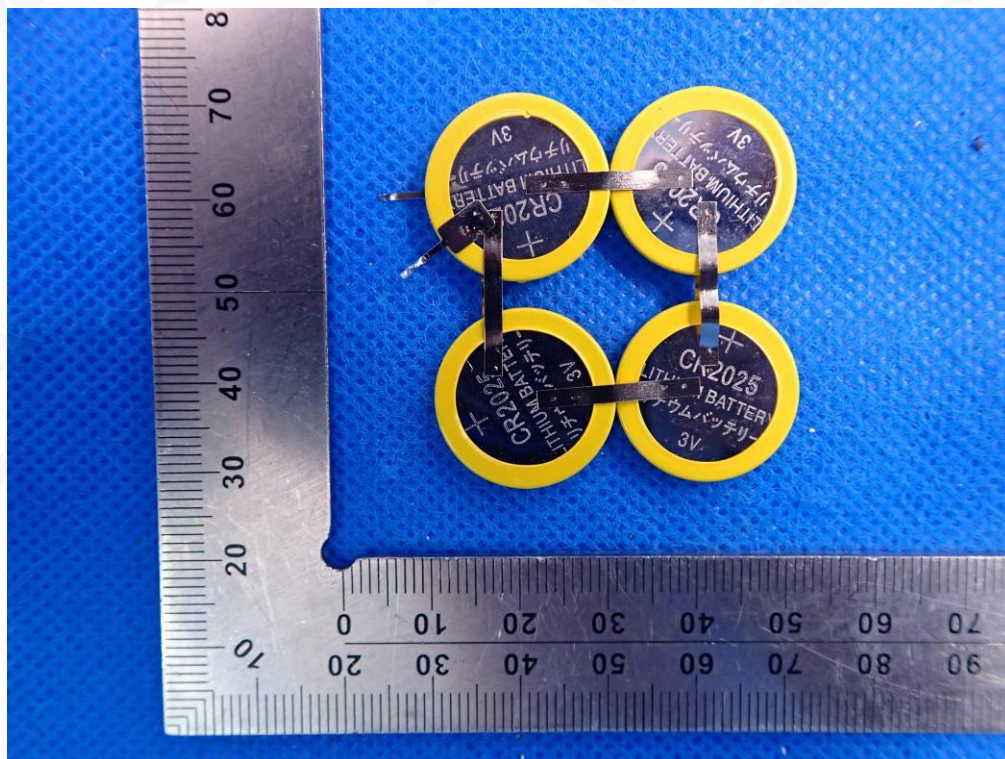
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INTERNAL VIEW-1 OF EUT



INTERNAL VIEW-2 OF EUT

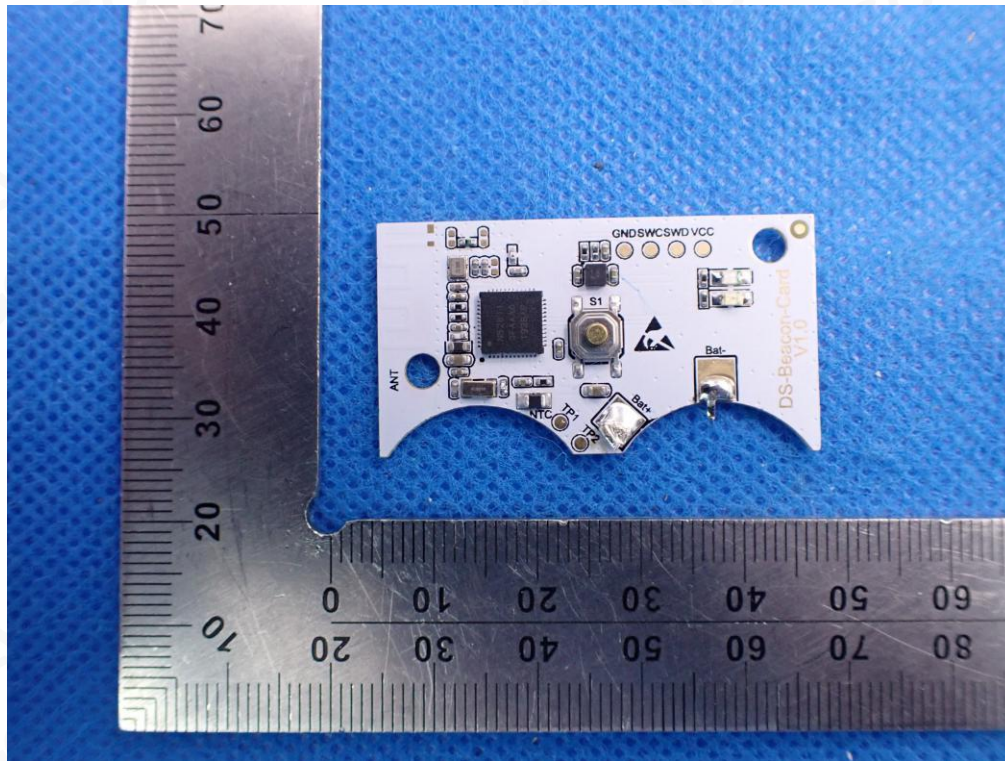


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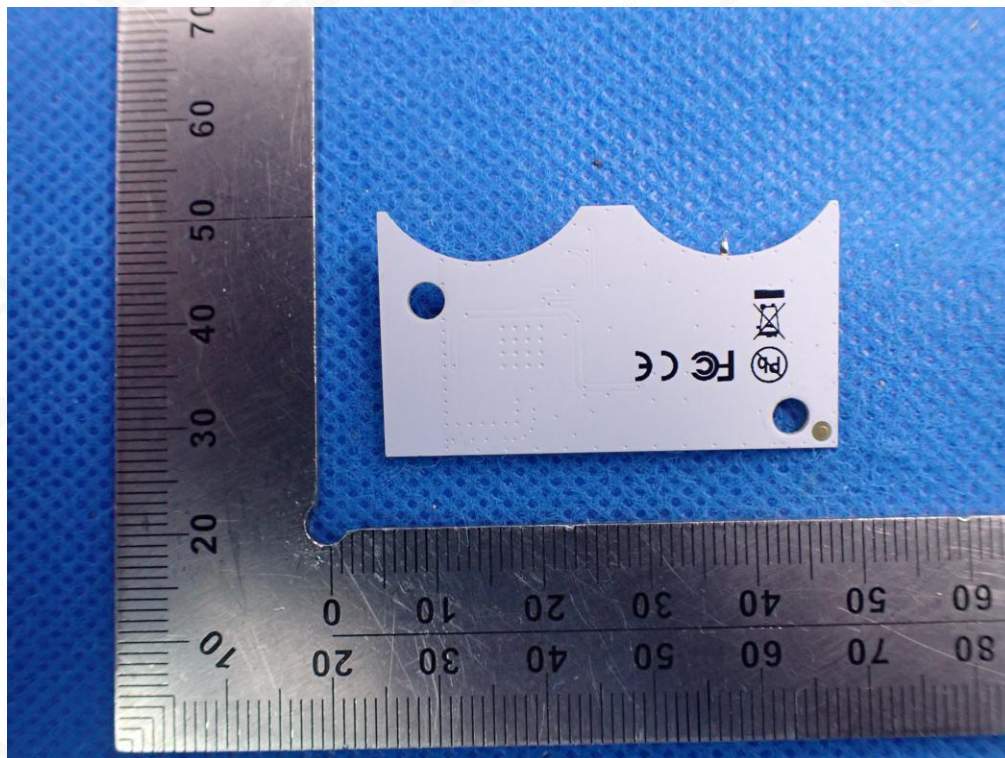
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INTERNAL VIEW-3 OF EUT



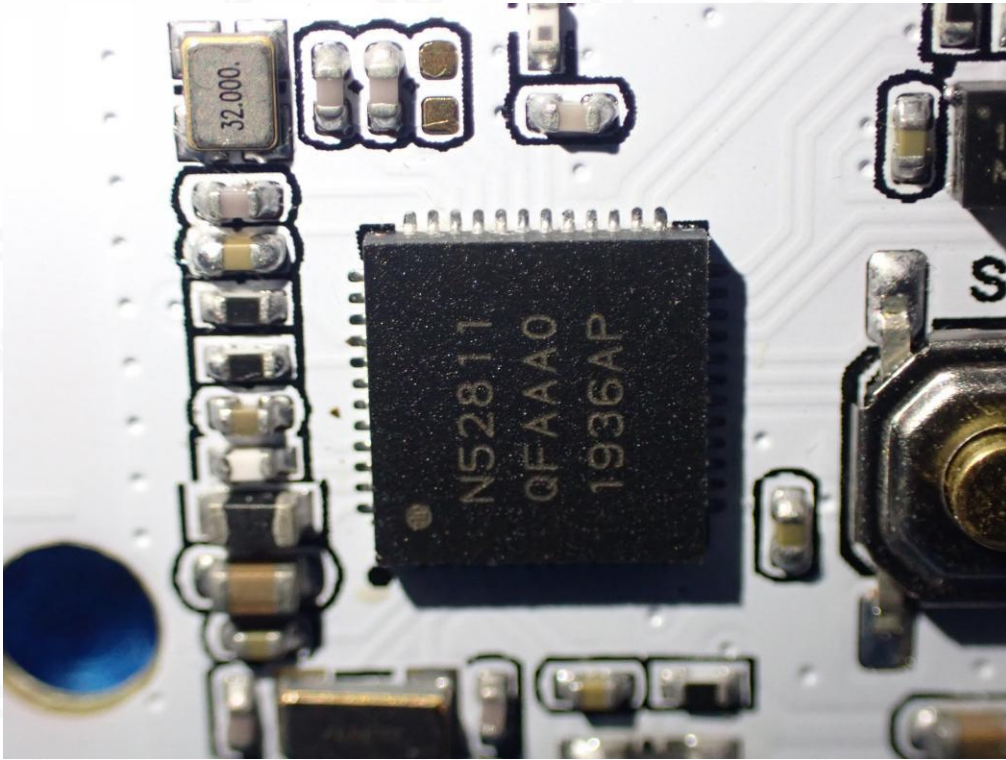
INTERNAL VIEW-4 OF EUT



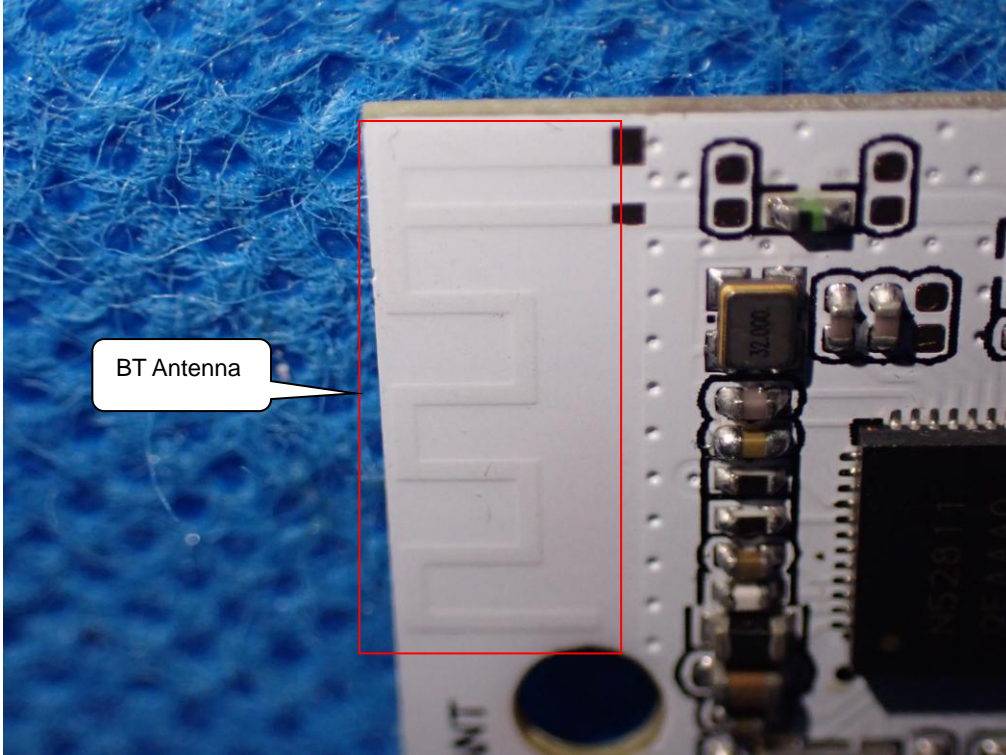
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INTERNAL VIEW-5 OF EUT



INTERNAL VIEW-6 OF EUT



----END OF REPORT----

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1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the “Company”) solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the “Clients”).
2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. The non-CMA report issued by AGC is only permitted to be used by the client as internal reference use and shall not be used for public demonstration purpose.
5. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
6. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
7. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
8. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
9. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
10. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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