

<b>EUT</b>	WIRELESS MUSIC SLEEP MASK	<b>Model Name</b>	MN-BTMASK
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	Mode 2	<b>Antenna</b>	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4882.000	45.6	0.14	45.74	74	-28.26	peak
4882.000	39.72	0.14	39.86	54	-14.14	AVG
7323.000	42.77	2.36	45.13	74	-28.87	peak
7323.000	37.1	2.36	39.46	54	-14.54	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

<b>EUT</b>	WIRELESS MUSIC SLEEP MASK	<b>Model Name</b>	MN-BTMASK
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	Mode 2	<b>Antenna</b>	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4882.000	43.95	0.14	44.09	74	-29.91	peak
4882.000	37.39	0.14	37.53	54	-16.47	AVG
7323.000	41.12	2.36	43.48	74	-30.52	peak
7323.000	34.89	2.36	37.25	54	-16.75	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

<b>EUT</b>	WIRELESS MUSIC SLEEP MASK	<b>Model Name</b>	MN-BTMASK
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	Mode 3	<b>Antenna</b>	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4960.000	45.67	0.22	45.89	74	-28.11	peak
4960.000	39.13	0.22	39.35	54	-14.65	AVG
7440.000	42.03	2.64	44.67	74	-29.33	peak
7440.000	35.72	2.64	38.36	54	-15.64	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

<b>EUT</b>	WIRELESS MUSIC SLEEP MASK	<b>Model Name</b>	MN-BTMASK
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	Mode 3	<b>Antenna</b>	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4960.000	43.51	0.22	43.73	74	-30.27	peak
4960.000	36.53	0.22	36.75	54	-17.25	AVG
7440.000	39.58	2.64	42.22	74	-31.78	peak
7440.000	32.89	2.64	35.53	54	-18.47	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

## RESULT: PASS

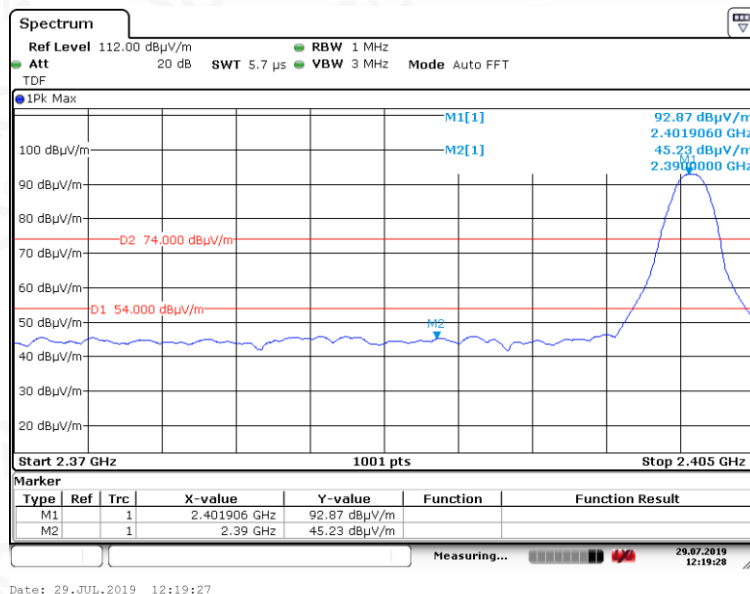
### Note:

Other emissions from 1G to 25 GHz are considered as ambient noise. No recording in the test report.  
Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.  
The "Factor" value can be calculated automatically by software of measurement system.  
All test modes had been tested. The GFSK modulation is the worst case and recorded in the report.

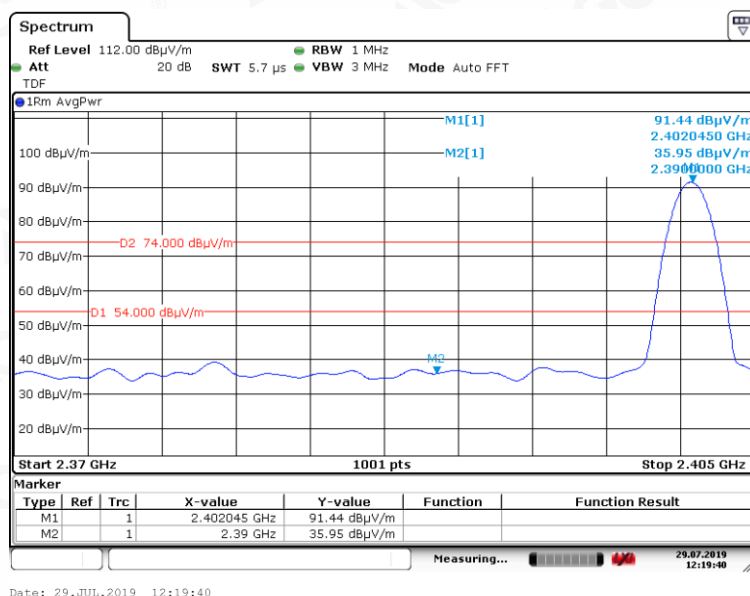
### TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

EUT	WIRELESS MUSIC SLEEP MASK	Model Name	MN-BTMASK
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

PK



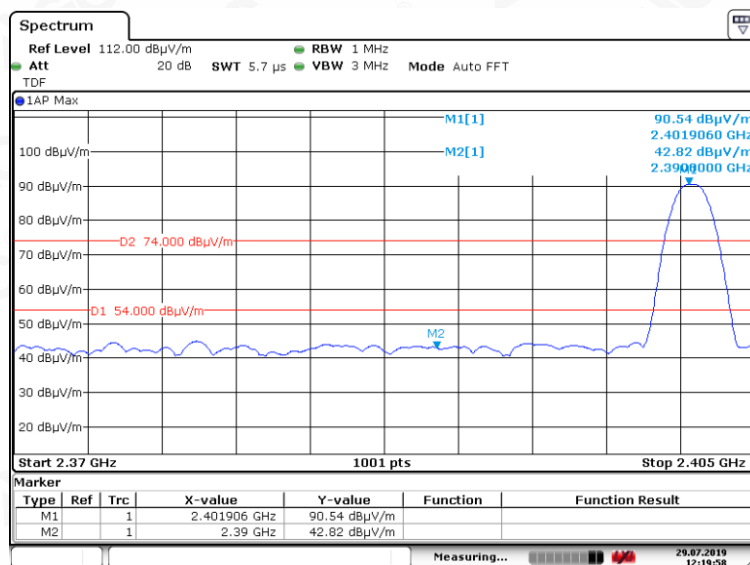
AV



RESULT: PASS

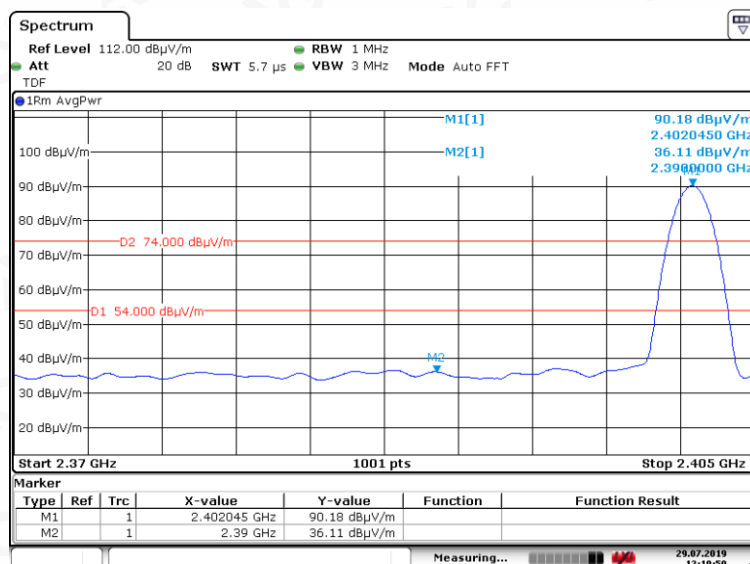
EUT	WIRELESS MUSIC SLEEP MASK	Model Name	MN-BTMASK
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

PK



Date: 29.JUL.2019 12:19:58

AV



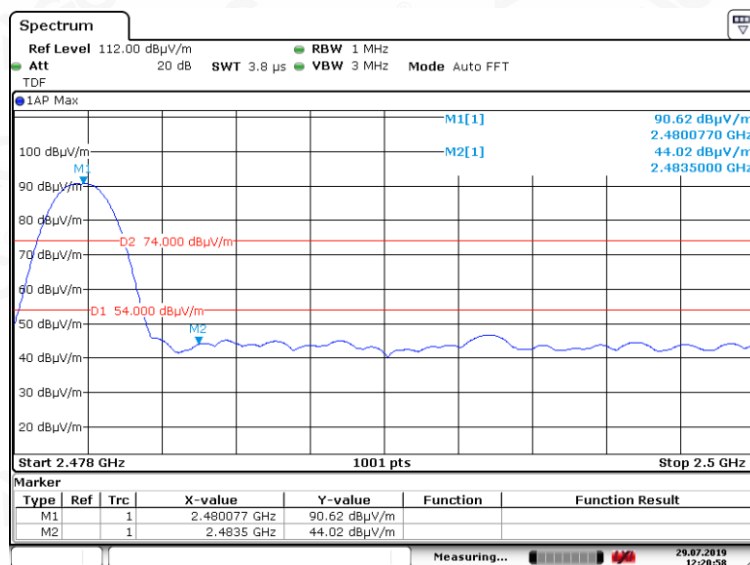
Date: 29.JUL.2019 12:19:50

RESULT: PASS



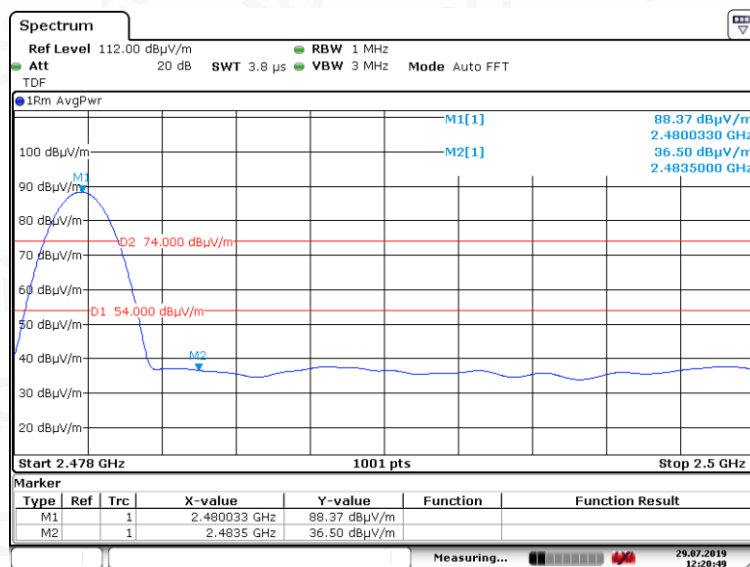
EUT	WIRELESS MUSIC SLEEP MASK	Model Name	MN-BTMASK
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

PK



Date: 29.JUL.2019 12:20:57

AV

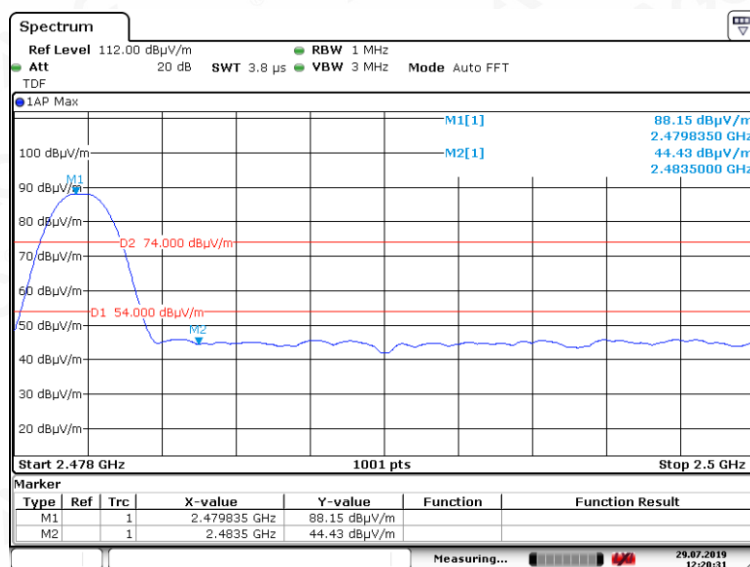


Date: 29.JUL.2019 12:20:49

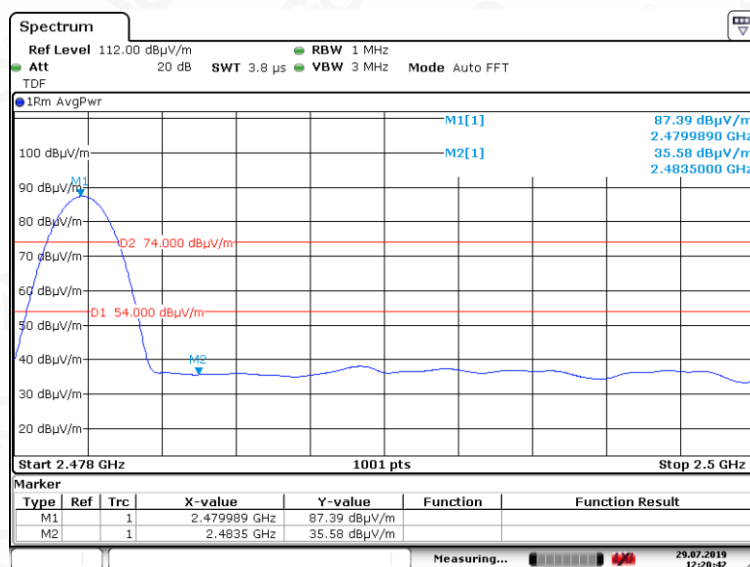
RESULT: PASS

EUT	WIRELESS MUSIC SLEEP MASK	Model Name	MN-BTMASK
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

PK



AV



## RESULT: PASS

**Note:** The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μV) to represent the Amplitude. Use the F dB(μV/m) to represent the Field Strength. So A=F. All test modes had been pre-tested. The GFSK modulation is the worst case and recorded in the report.

## 11. NUMBER OF HOPPING FREQUENCY

### 11.1. MEASUREMENT PROCEDURE

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

1. Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.
2. RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
3. VBW  $\geq$  RBW. Sweep: Auto. Detector function: Peak. Trace: Max hold.
4. Allow the trace to stabilize.

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

Same as described in section 8.2

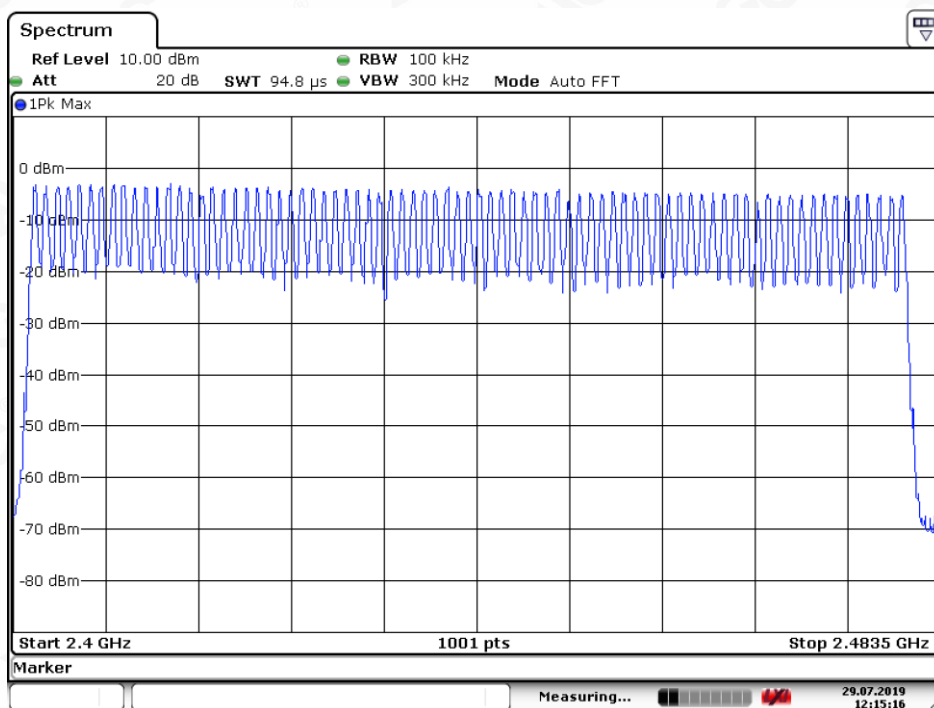
### 11.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

### 11.4. LIMITS AND MEASUREMENT RESULT

TOTAL NO. OF HOPPING CHANNEL	LIMIT (NO. OF CH)	MEASUREMENT (NO. OF CH)	RESULT
	$\geq 15$	79	PASS

TEST PLOT FOR NO. OF TOTAL CHANNELS



Date: 29.JUL.2019 12:15:16

Note: The GFSK modulation is the worst case and recorded in the report.

## 12. TIME OF OCCUPANCY (DWELL TIME)

### 12.1. MEASUREMENT PROCEDURE

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

1. Span: Zero span, centered on a hopping channel.
2. RBW shall be  $\leq$  channel spacing and where possible RBW should be set  $\gg 1/T$ , where T is the expected dwell time per channel.
3. Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel.
4. Detector function: Peak. Trace: Max hold.
5. Use the marker-delta function to determine the transmit time per hop.
6. Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements. Determine the number of hops over the sweep time and calculate the total number of hops in the period specified in the requirements, using the following equation:  

$$(\text{Number of hops in the period specified in the requirements}) = (\text{number of hops on spectrum analyzer}) \times (\text{period specified in the requirements} / \text{analyzer sweep time})$$
7. The average time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified in the requirements.

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

Same as described in section 8.2

### 12.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

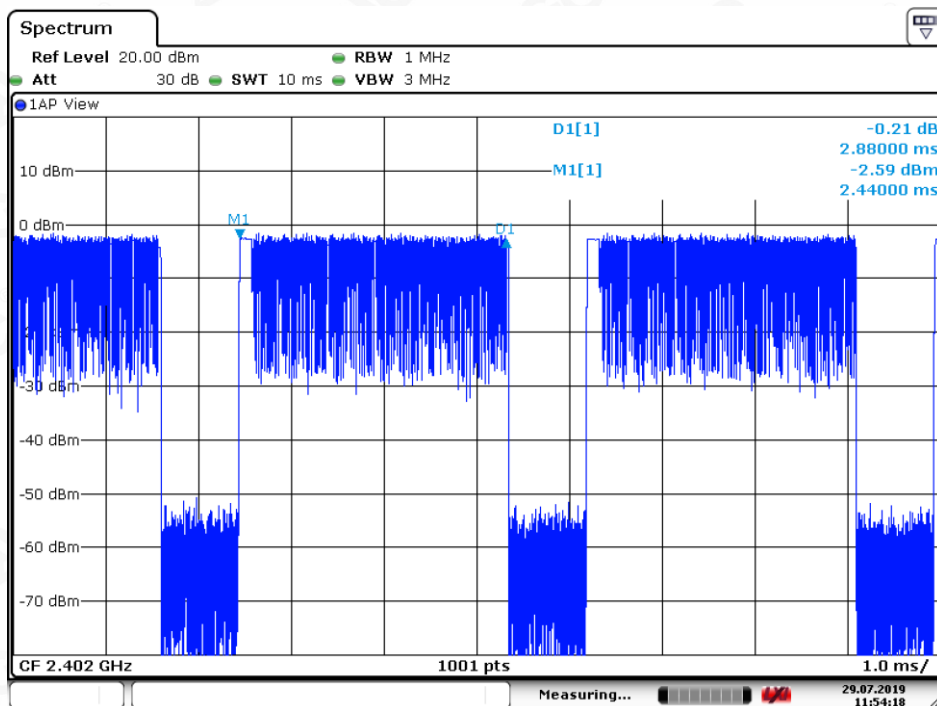
### 12.4. LIMITS AND MEASUREMENT RESULT

Channel	Time of Pulse for DH5 (ms)	Number of hops in the period specified in the requirements	Sweep Time (ms)	Limit (ms)
Low	2.880	29*4	334.08	400
Middle	2.870	26*4	298.48	400
High	2.880	29*4	334.08	400

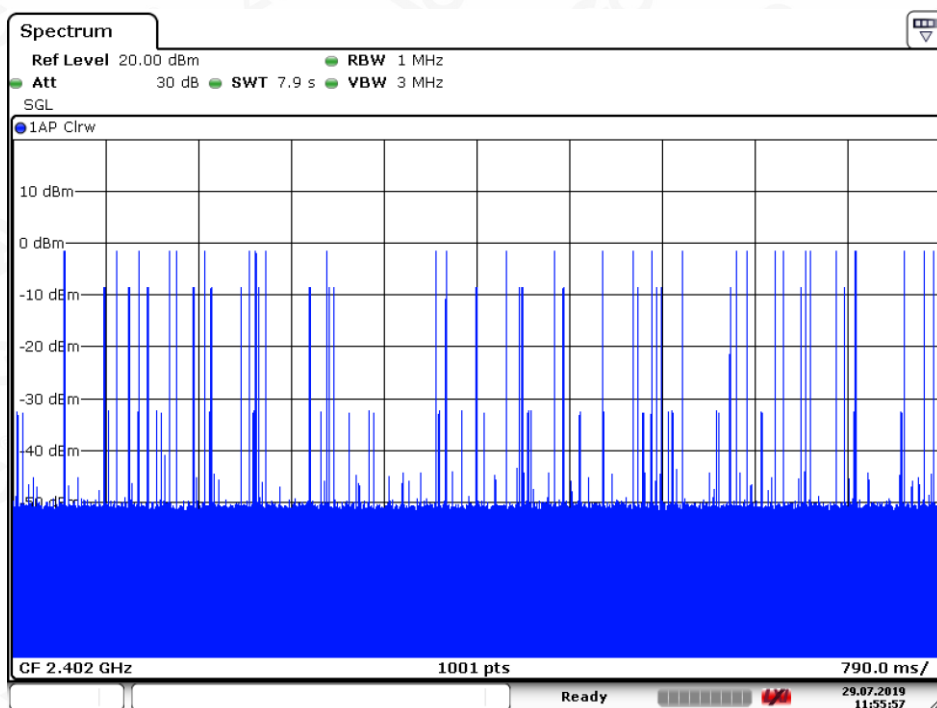
Note: The 8-DPSK modulation is the worst case and recorded in the report.



### TEST PLOT OF LOW CHANNEL



Date: 29.JUL.2019 11:54:17



Date: 29.JUL.2019 11:55:57



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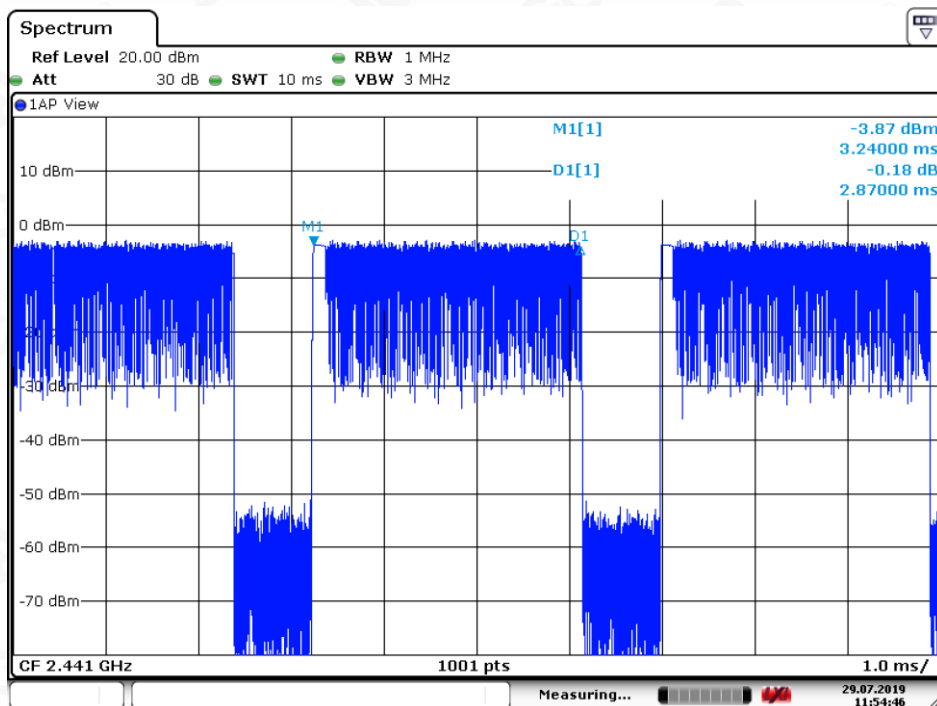
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

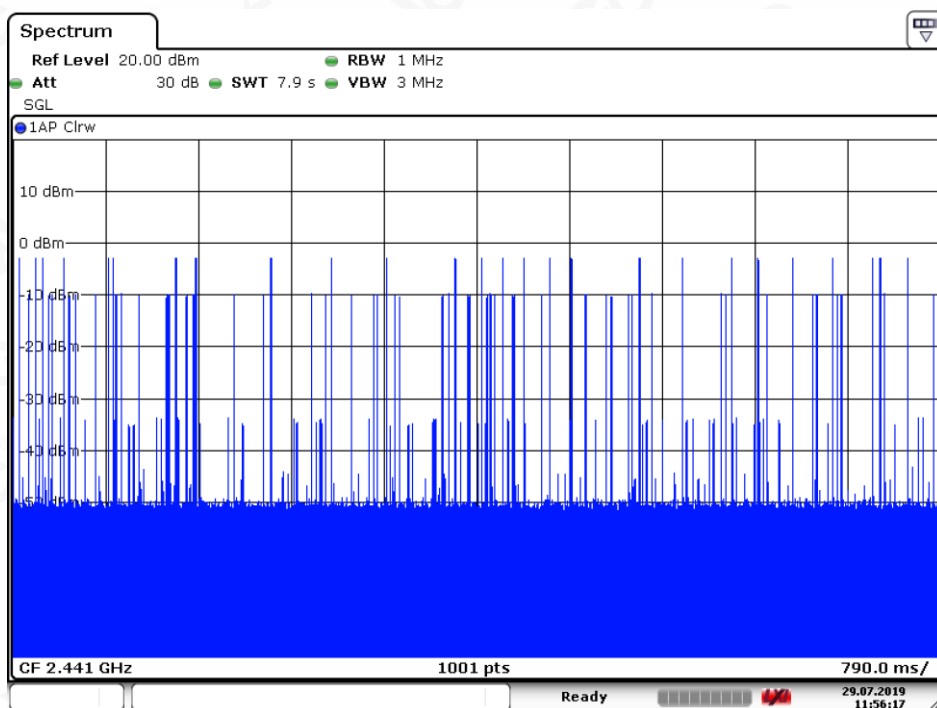
E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

### TEST PLOT OF MIDDLE CHANNEL

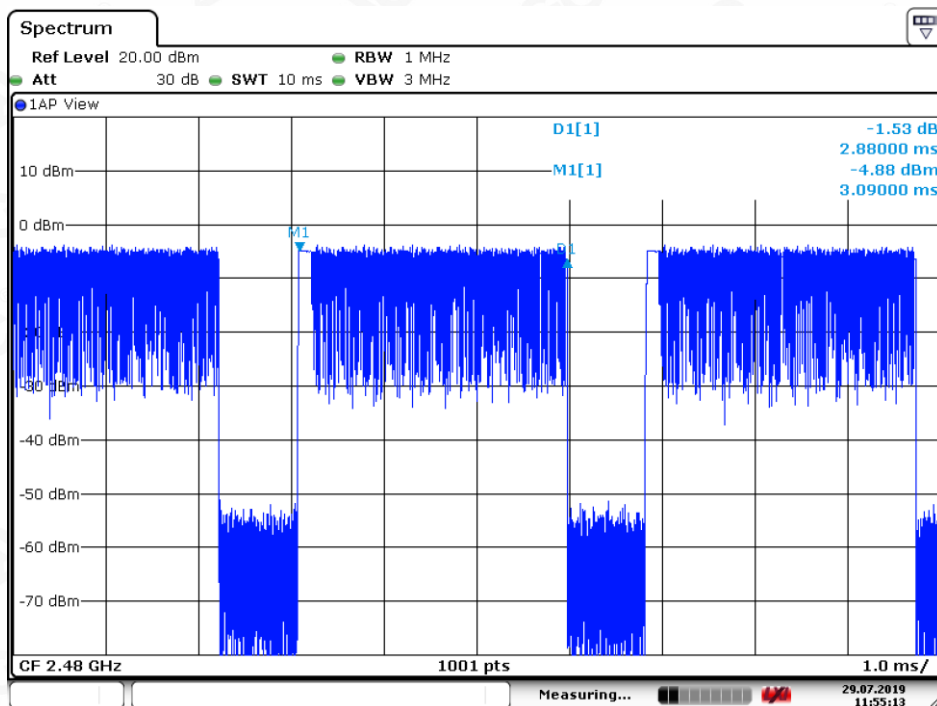


Date: 29.JUL.2019 11:54:46

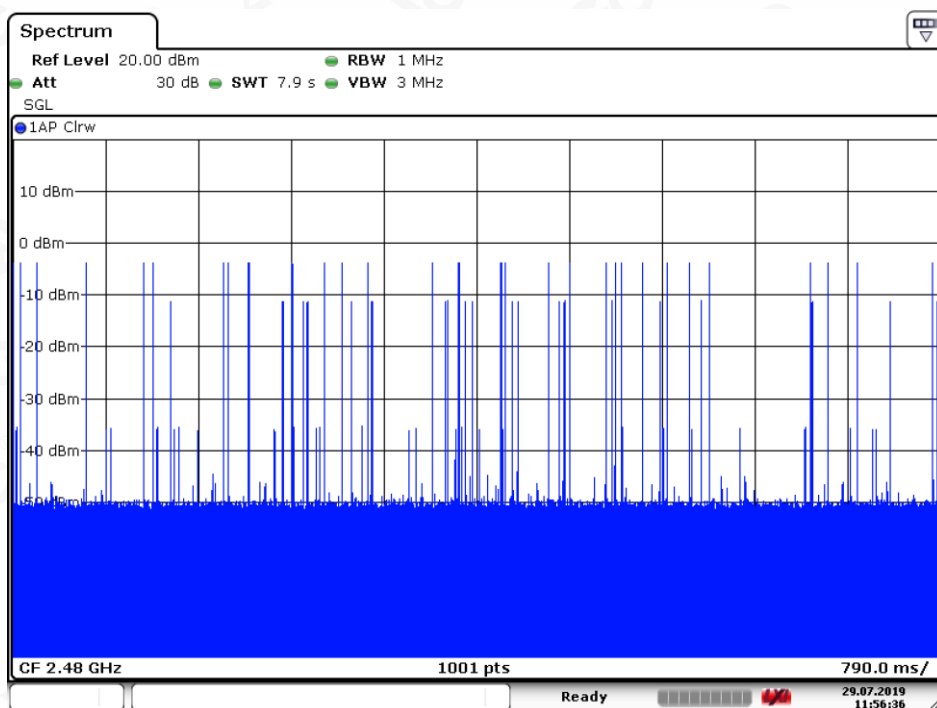


Date: 29.JUL.2019 11:56:17

### TEST PLOT OF HIGH CHANNEL



Date: 29.JUL.2019 11:55:13



Date: 29.JUL.2019 11:56:36



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Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

### 13. FREQUENCY SEPARATION

#### 13.1. MEASUREMENT PROCEDURE

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

1. Span: Wide enough to capture the peaks of two adjacent channels.
  2. RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
  3. Video (or average) bandwidth (VBW)  $\geq$  RBW.
  4. Sweep: Auto. e) Detector function: Peak. f) Trace: Max hold. g) Allow the trace to stabilize.
- Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

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

Same as described in section 6.2

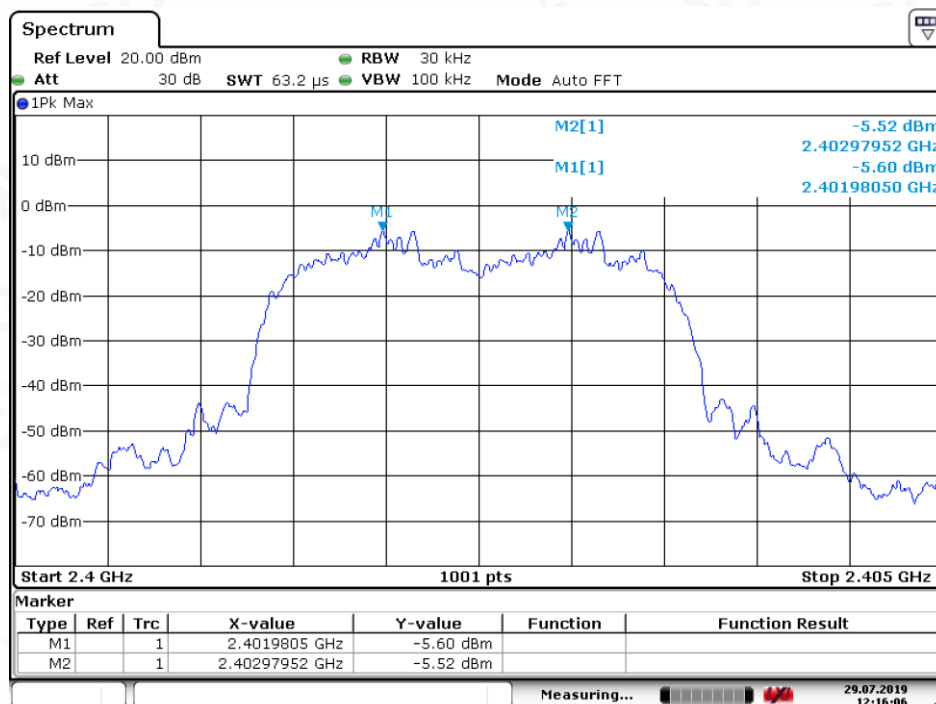
#### 13.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.3

#### 13.4. LIMITS AND MEASUREMENT RESULT

CHANNEL	CHANNEL SEPARATION	LIMIT	RESULT
	KHz	KHz	
CH01-CH02	999	$\geq 25$ KHz or 2/3 20 dB BW	Pass

TEST PLOT FOR FREQUENCY SEPARATION



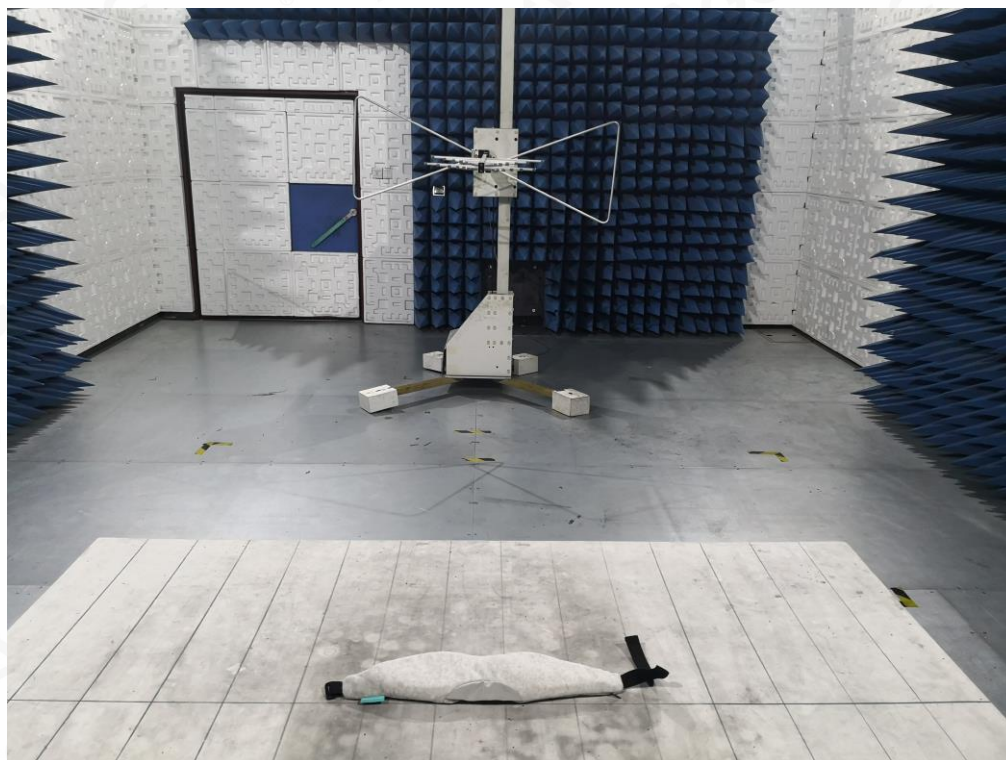
Date: 29.JUL.2019 12:16:05

Note: The 8-DPSK modulation is the worst case and recorded in the report.



## APPENDIX A: PHOTOGRAPHS OF TEST SETUP

### RADIATED EMISSION TEST SETUP BELOW 1GHZ



RADIATED EMISSION TEST SETUP ABOVE 1GHZ



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Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

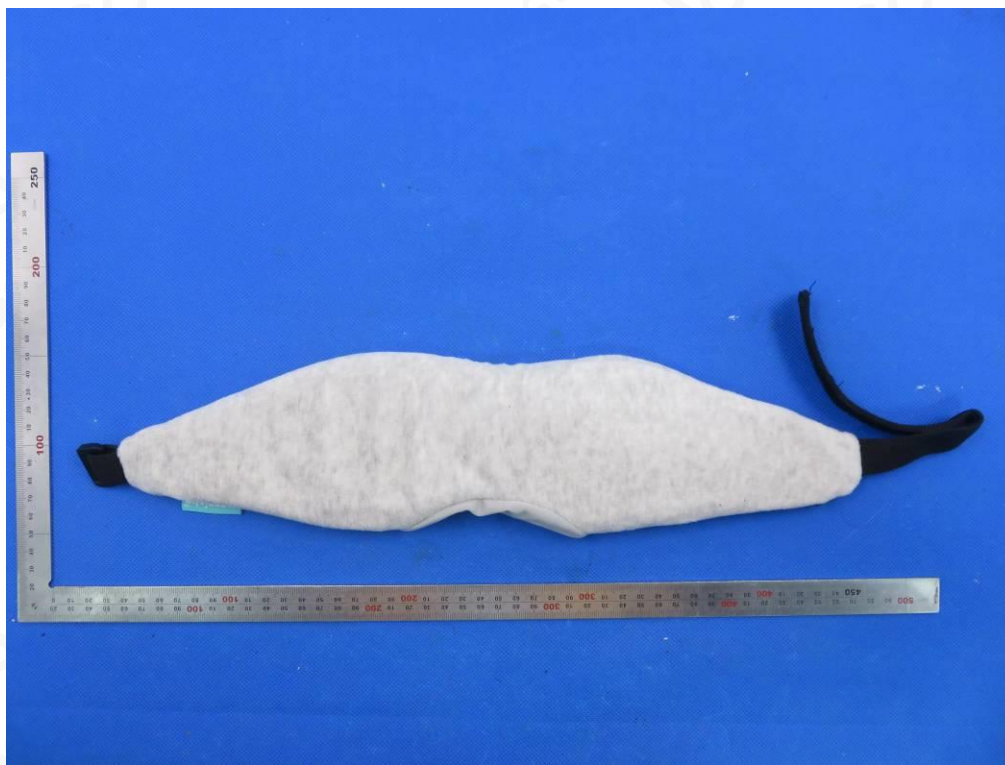
Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

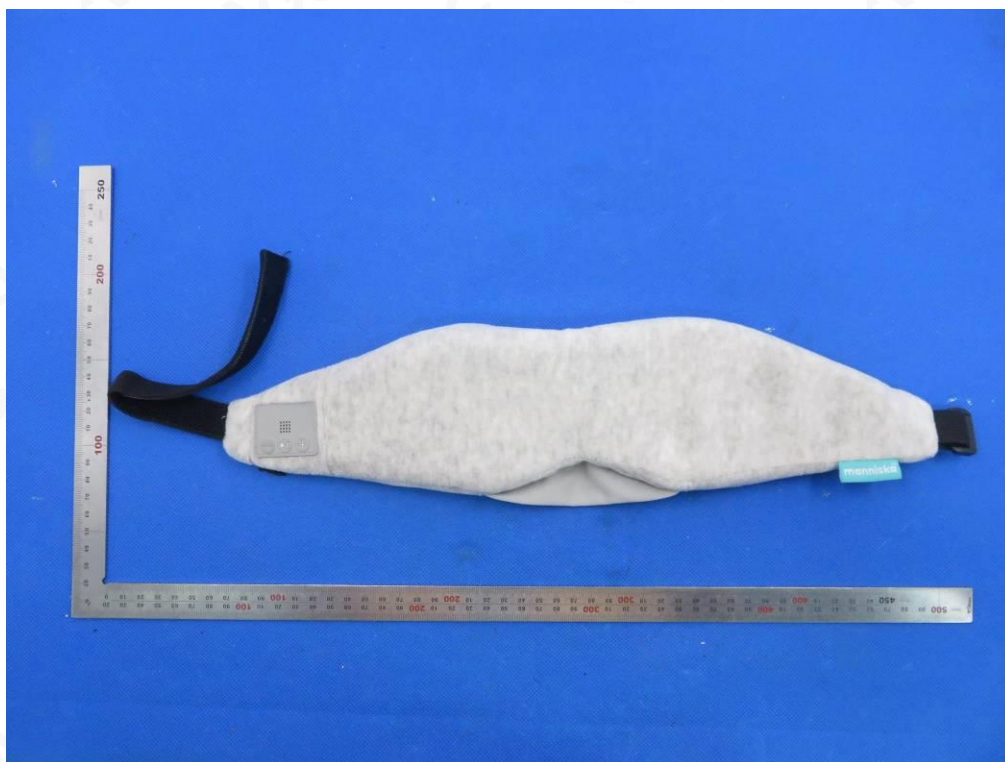
Service Hotline: 400 089 2118

## APPENDIX B: PHOTOGRAPHS OF EUT

### TOP VIEW OF EUT

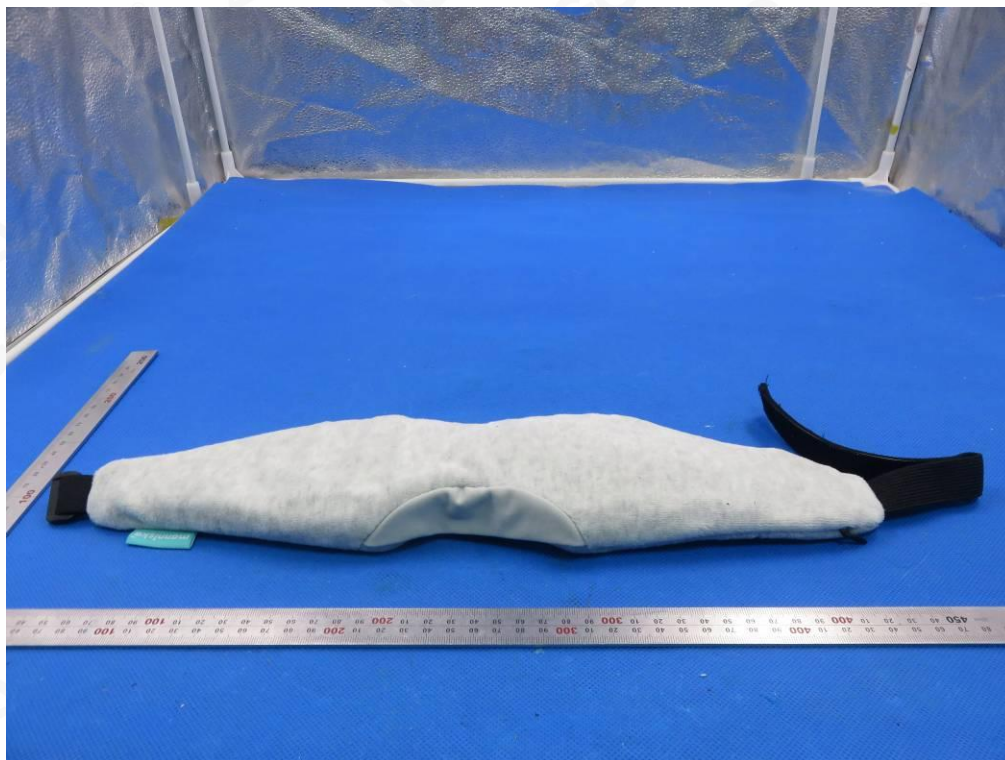


### BOTTOM VIEW OF EUT





FRONT VIEW OF EUT



BACK VIEW OF EUT



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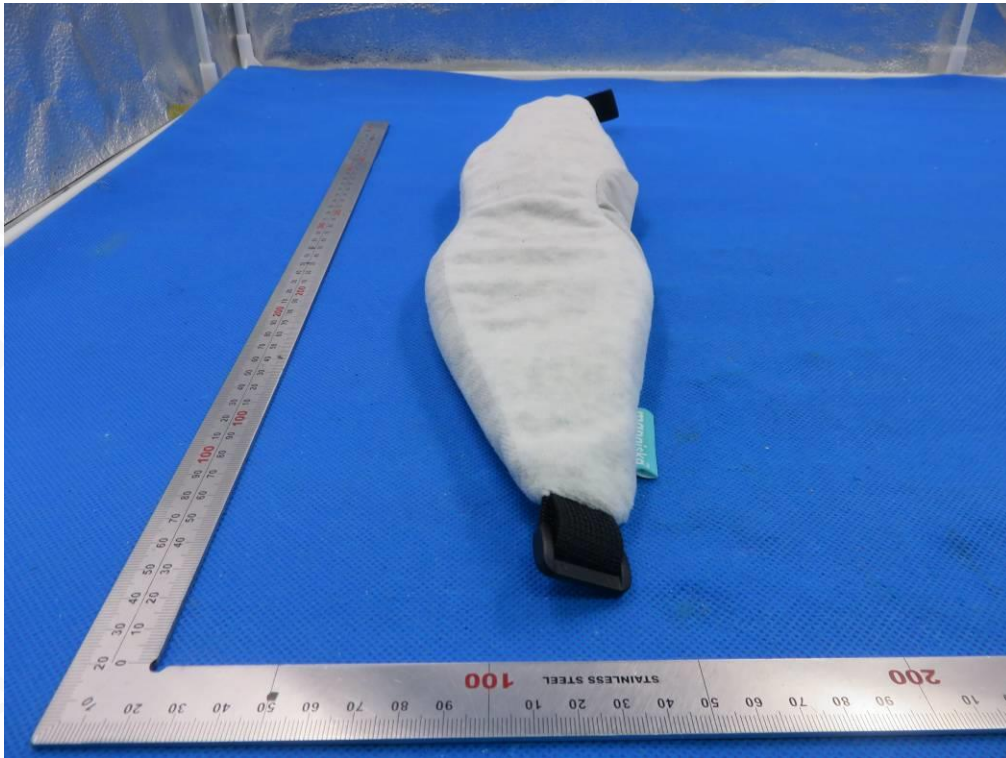
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

LEFT VIEW OF EUT

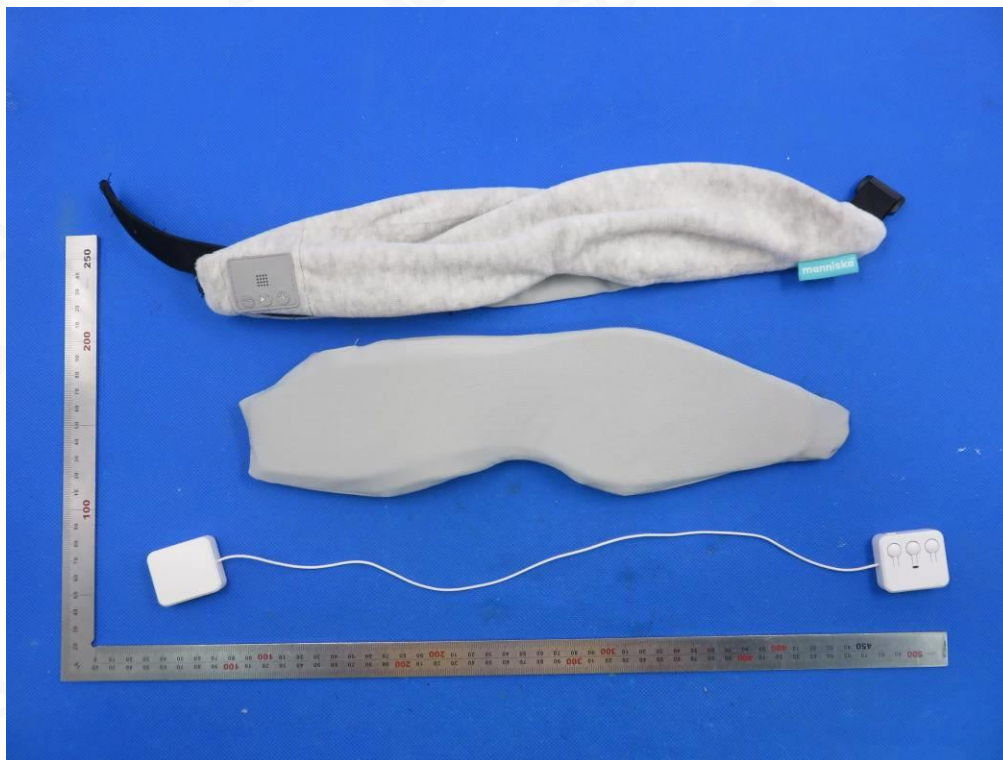


RIGHT VIEW OF EUT

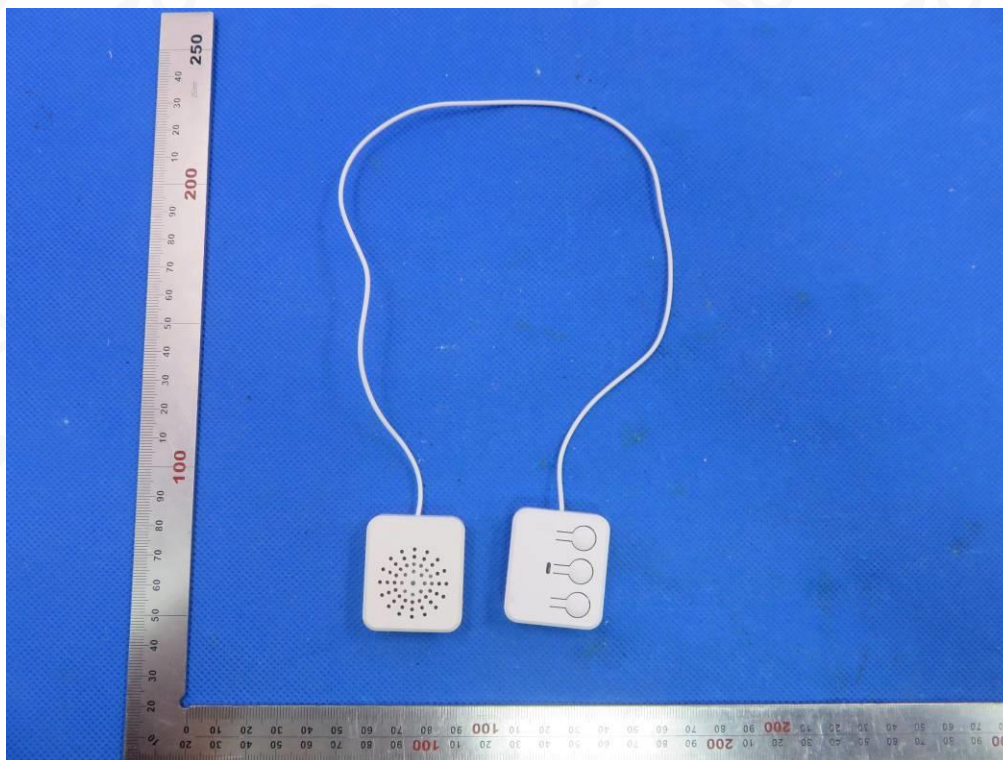




OPEN VIEW OF EUT

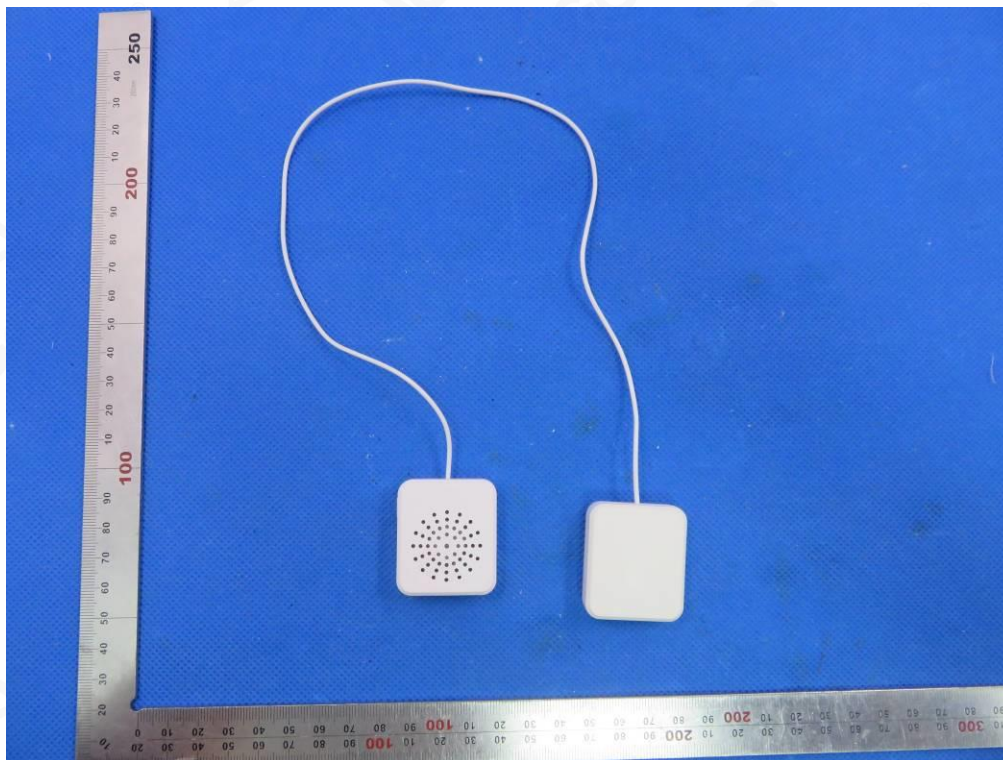


TOP VIEW OF EUT

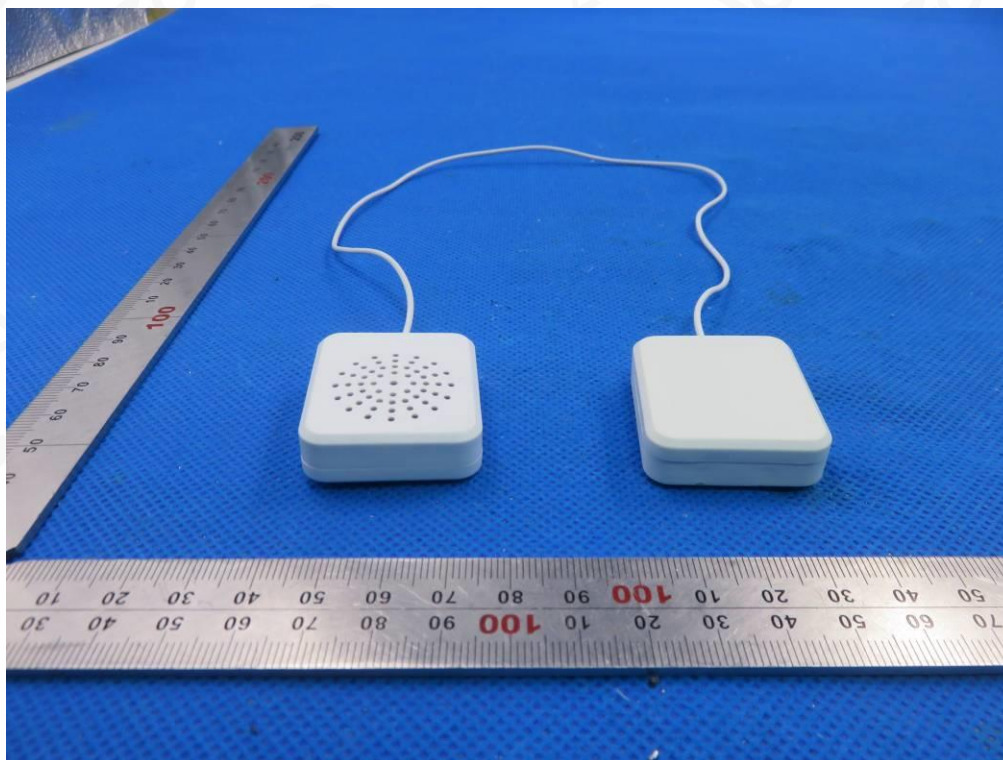




BOTTOM VIEW OF EUT

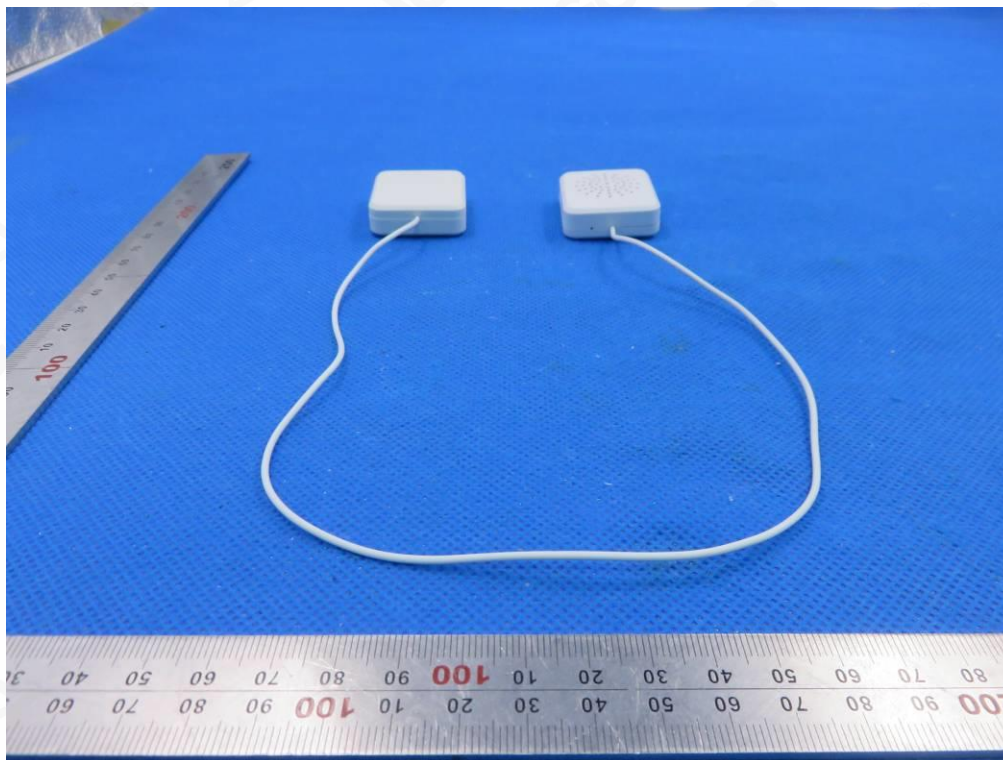


FRONT VIEW OF EUT

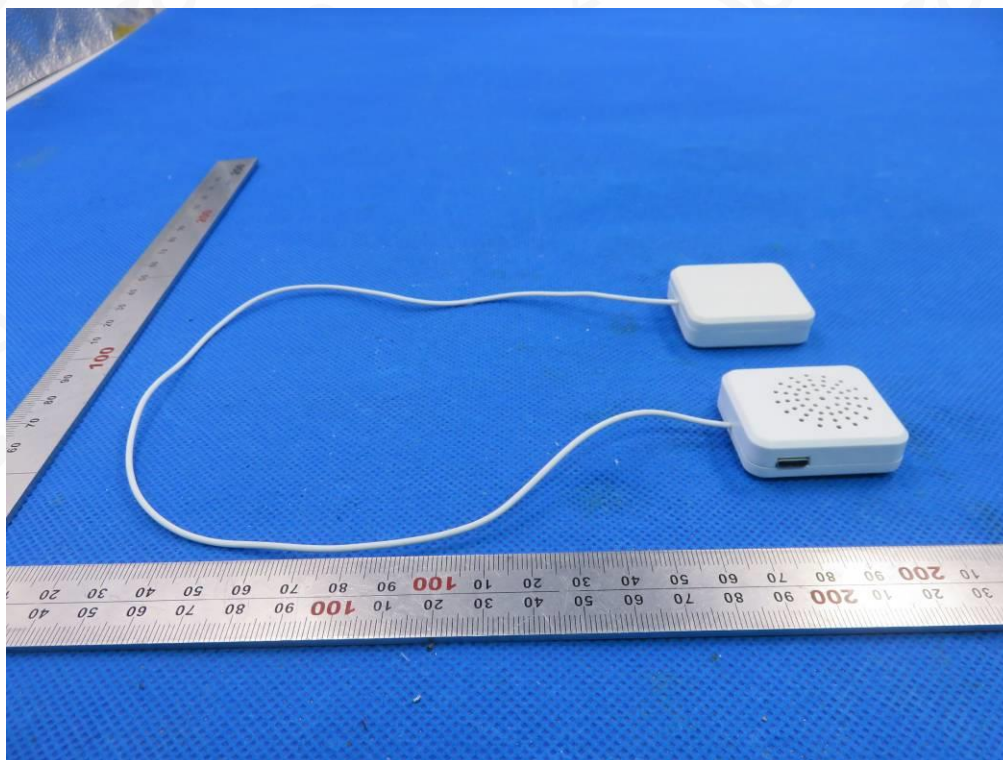




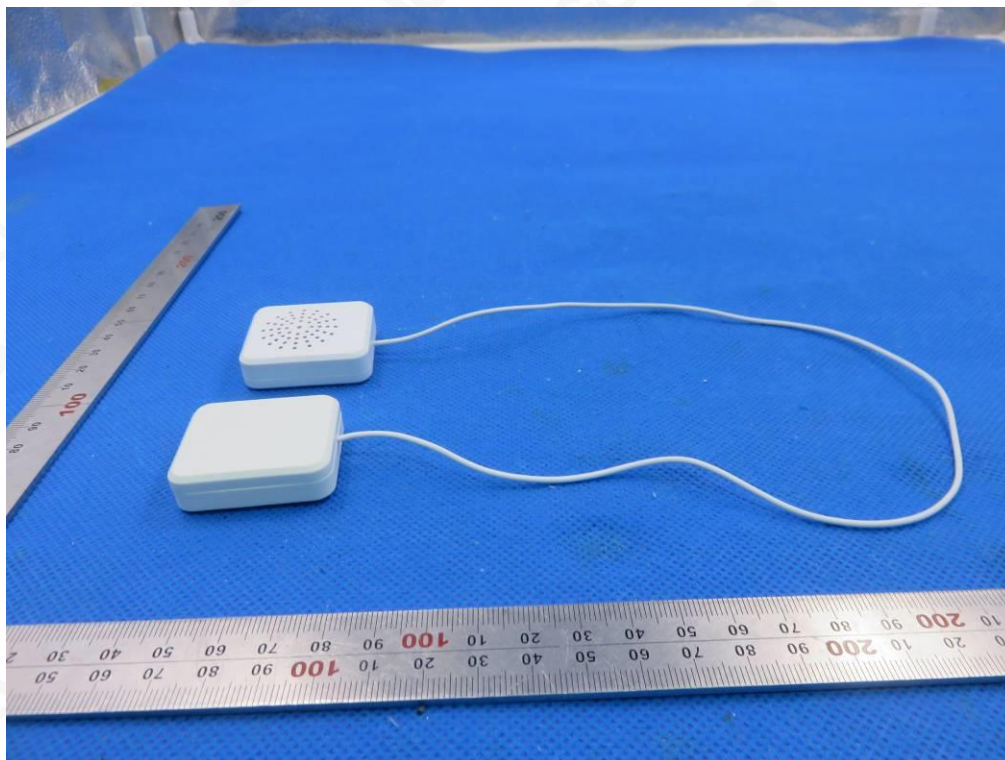
BACK VIEW OF EUT



LEFT VIEW OF EUT



RIGHT VIEW OF EUT

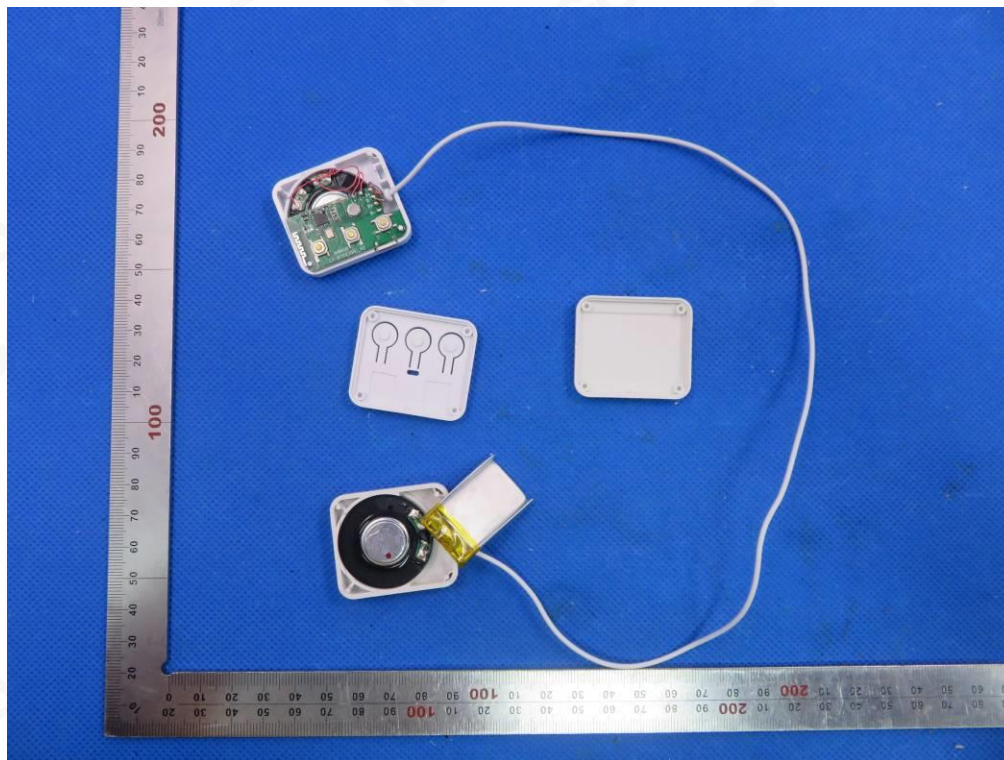


VIEW OF EUT(PORT)

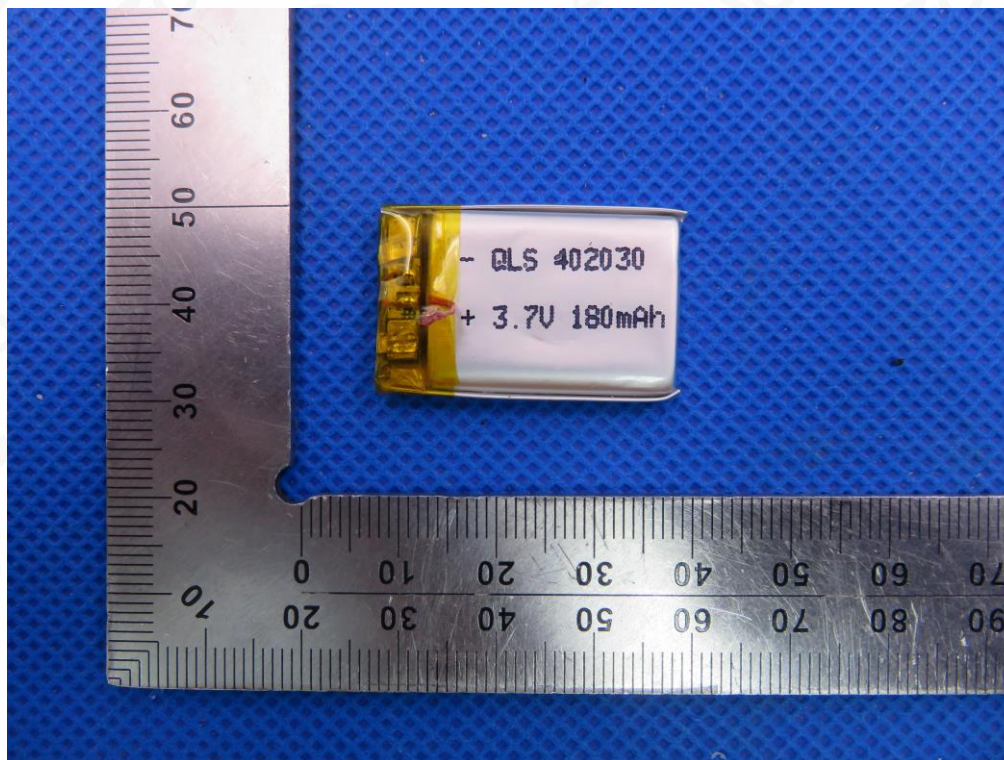




OPEN VIEW OF EUT

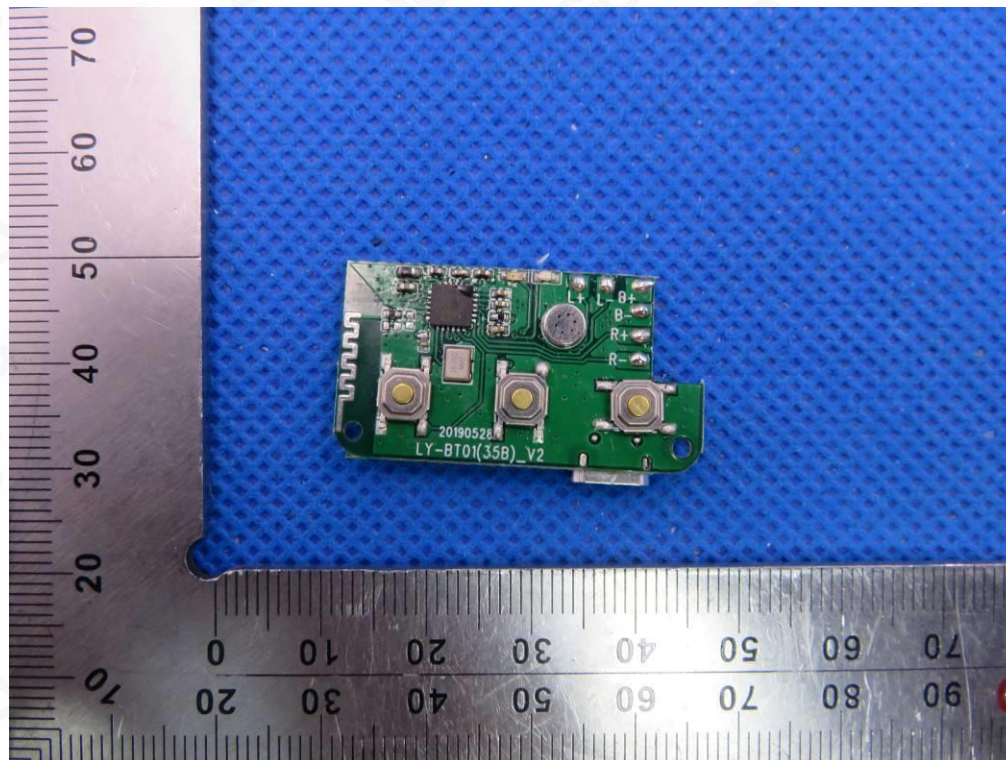


VIEW OF BATTERY

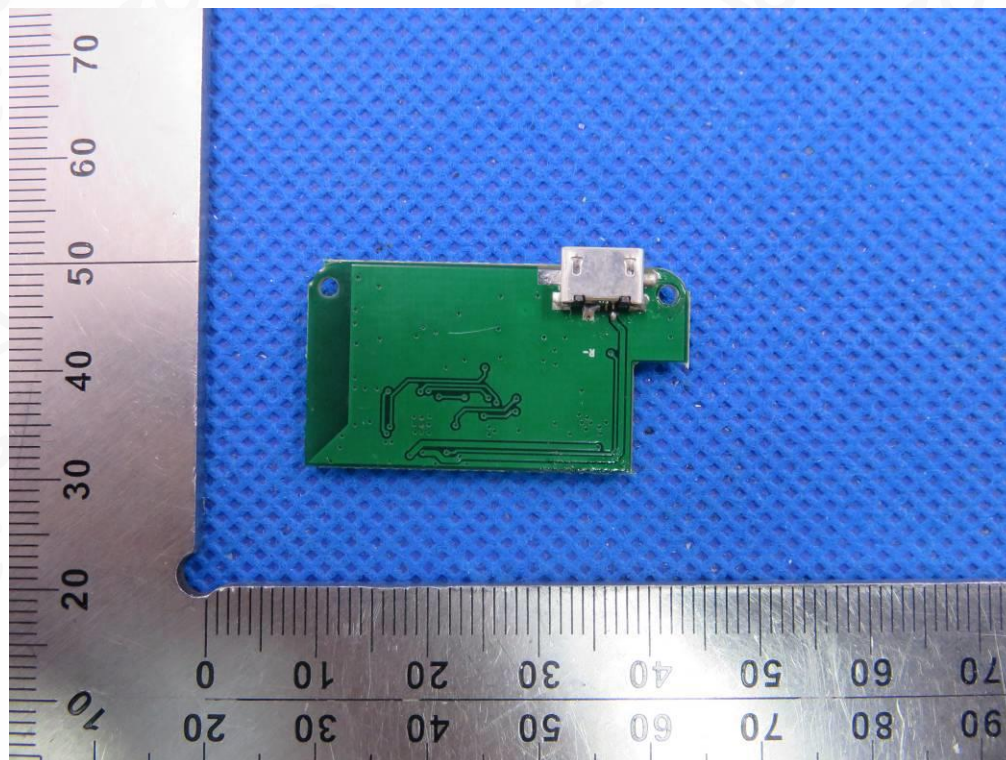




INTERNAL VIEW OF EUT-1

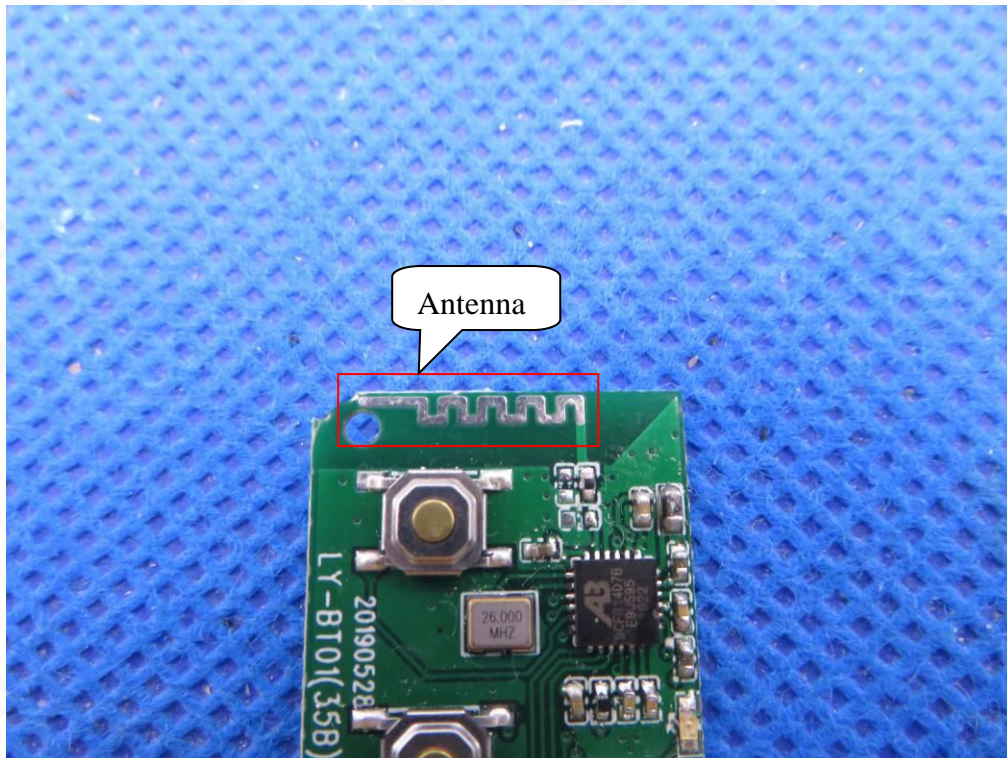


INTERNAL VIEW OF EUT-2

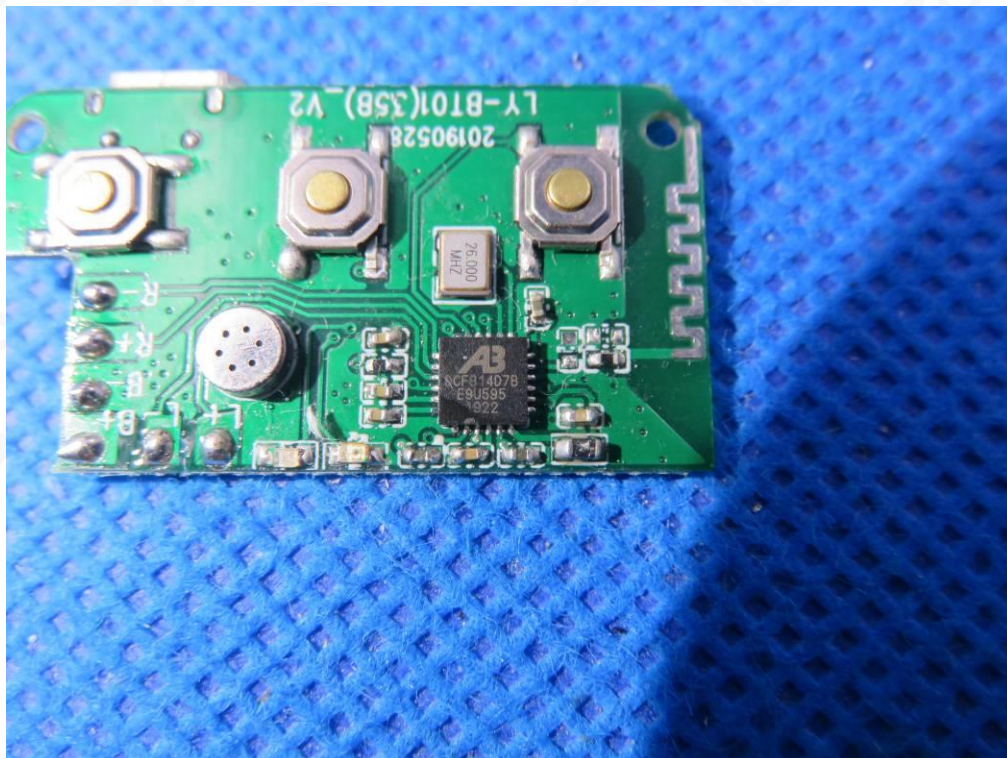




INTERNAL VIEW OF EUT-3



INTERNAL VIEW OF EUT-4



----END OF REPORT----