



REPORT No. : SZ17110105E01

TEST REPORT

APPLICANT : Cherub Technology Co., Ltd
PRODUCT NAME : B-2 wireless systems
MODEL NAME : B-2
TRADE NAME : NUX
BRAND NAME : NUX
STANDARD(S) : IEEE149-1979
: GB/T 9410-2008
TEST DATE : 2017-11-15
ISSUE DATE : 2017-11-15

Tested by:


Chi Shide(Test Engineer)

Approved by:


Andy Yeh(Technical Director)

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MORLAB

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Change History		
Issue	Date	Reason for change
1.0	2017-11-15	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant, Manufacturer and Factory Information

Applicant:	Cherub Technology Co., Ltd
Applicant Address:	Room507, Block 1, Nanhai E-Cool, No. 6 Xinghua Road, Shekou, Nanshan District, Shenzhen City, Guangdong Province, China, 518067
Manufacturer:	N/A
Manufacturer Address:	N/A
Factory:	N/A
Factory Address:	N/A

1.2. Equipment Under Test (EUT) Description

Frequency:	2400MHz-2500MHz
Dimensions:	N/A
Hardware Version:	N/A
Hardware Version:	N/A

2. Test Results

2.1. Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title
1	IEEE149-1979	IEEE Standard Test Procedures for Antennas
2	GB/T 9410-2008	General specification for antennas used in the mobile communications

2.2. Test Conditions

Test Environment Conditions:

Relative Humidity:	15 ... 75 %
Temperature:	+10 °C to +30 °C

2.3. Test Results lists

2.3.1. Gain and Efficiency

Frequency	Gain(dBi)	Efficiency
2400MHz	4.10	67.44%
2410MHz	4.67	70.48%
2420MHz	4.66	74.02%
2430MHz	3.94	69.49%
2440MHz	4.32	69.90%
2450MHz	4.15	67.89%
2460MHz	3.95	69.89%
2470MHz	3.56	66.66%
2480MHz	2.86	58.21%
2490MHz	2.74	56.80%
2500MHz	2.76	56.01%

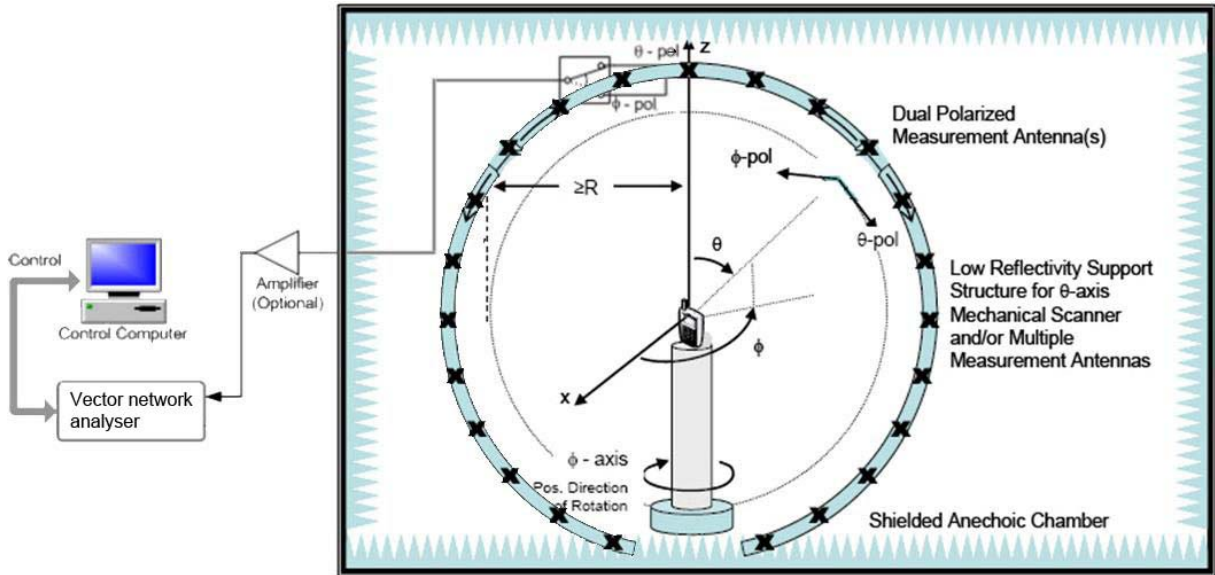


2.3.2.VSWR and Impedance

Frequency	VSWR	Impedance (Ω)
2400MHz	1.32	38.99
2450MHz	1.22	46.79
2500MHz	1.63	63.97

Annex A Test Setup

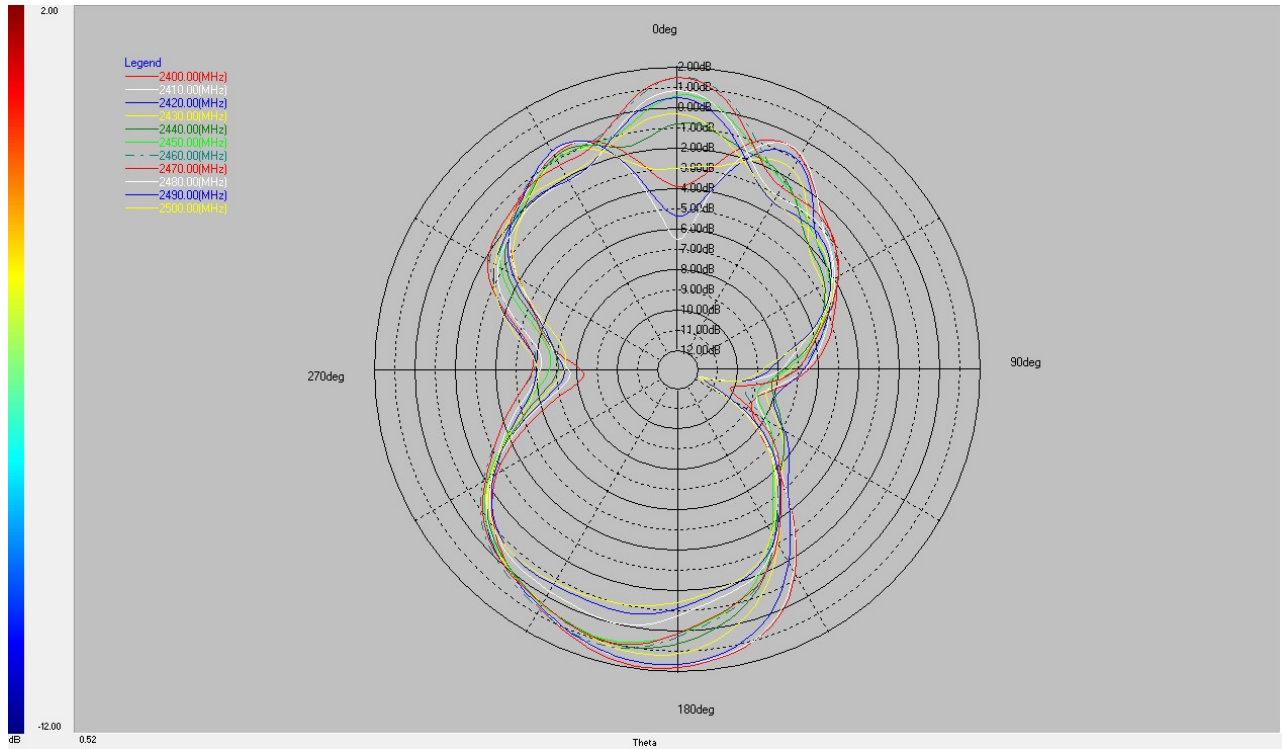
Test Setup



Annex B Figures

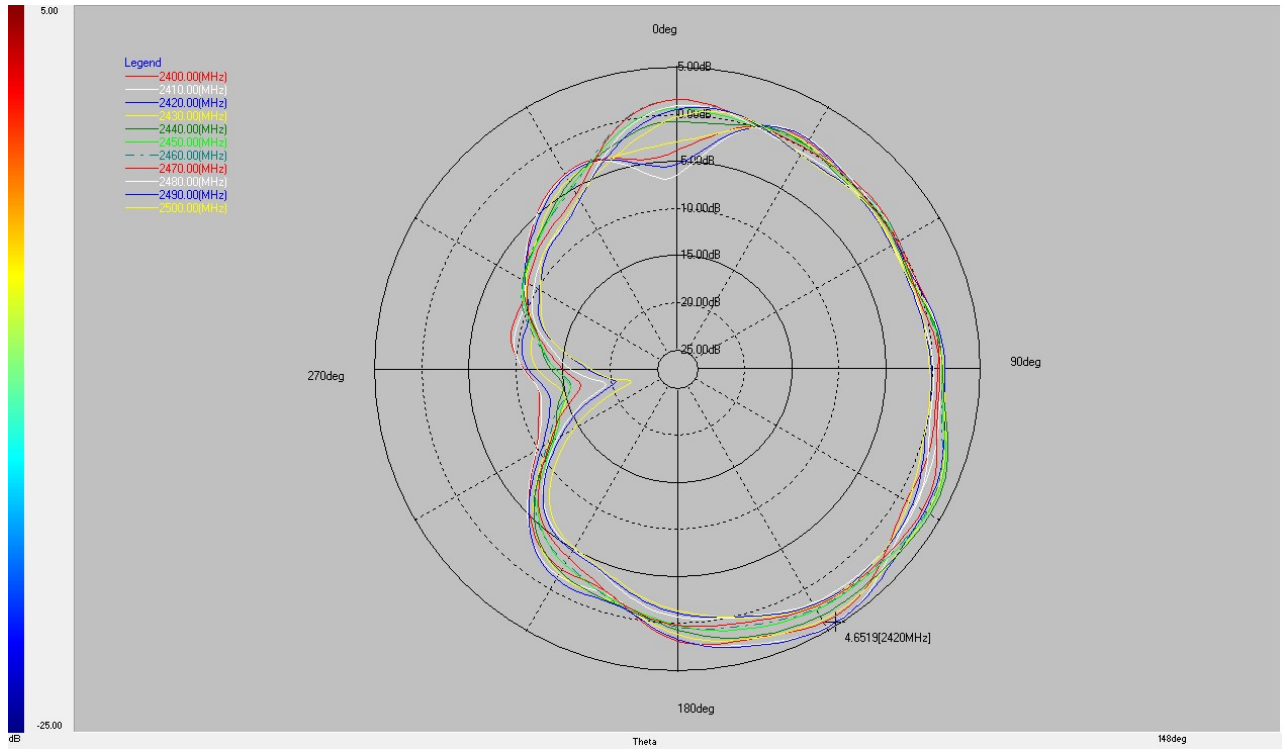
1. 2D Radiation Pattern

Phi=0°

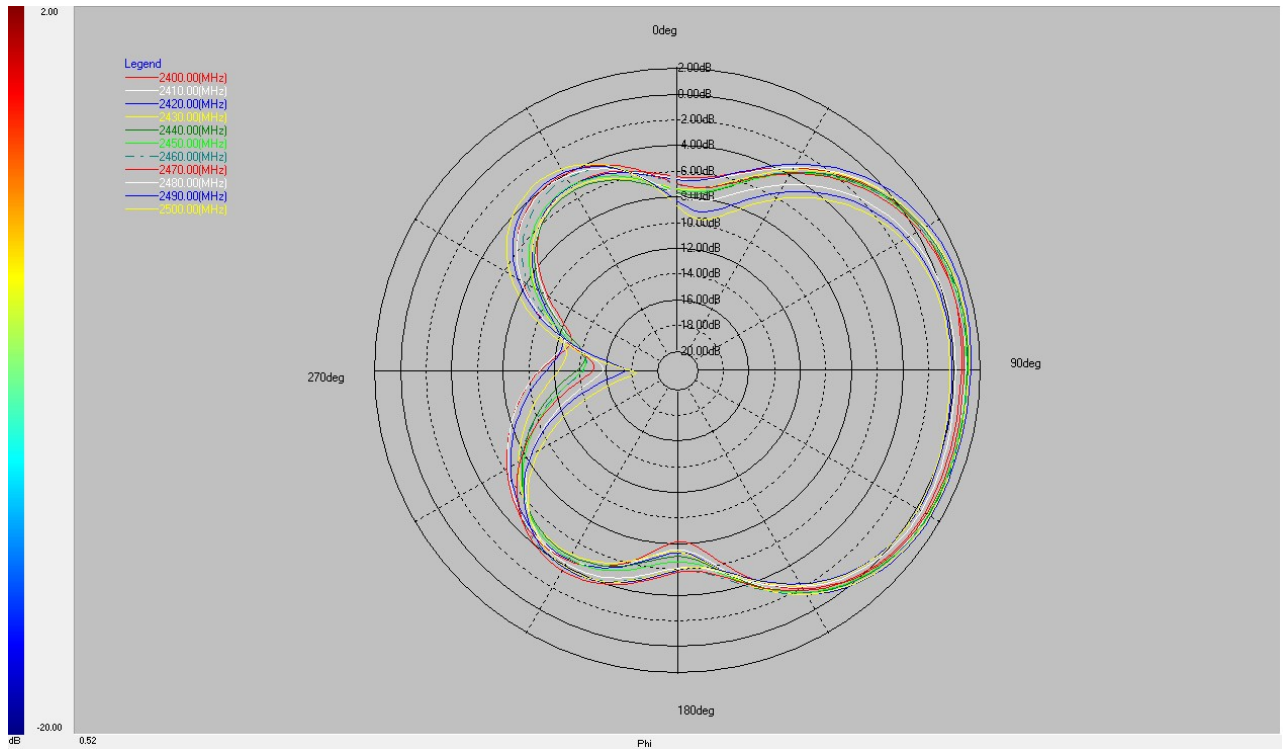




Phi=90°

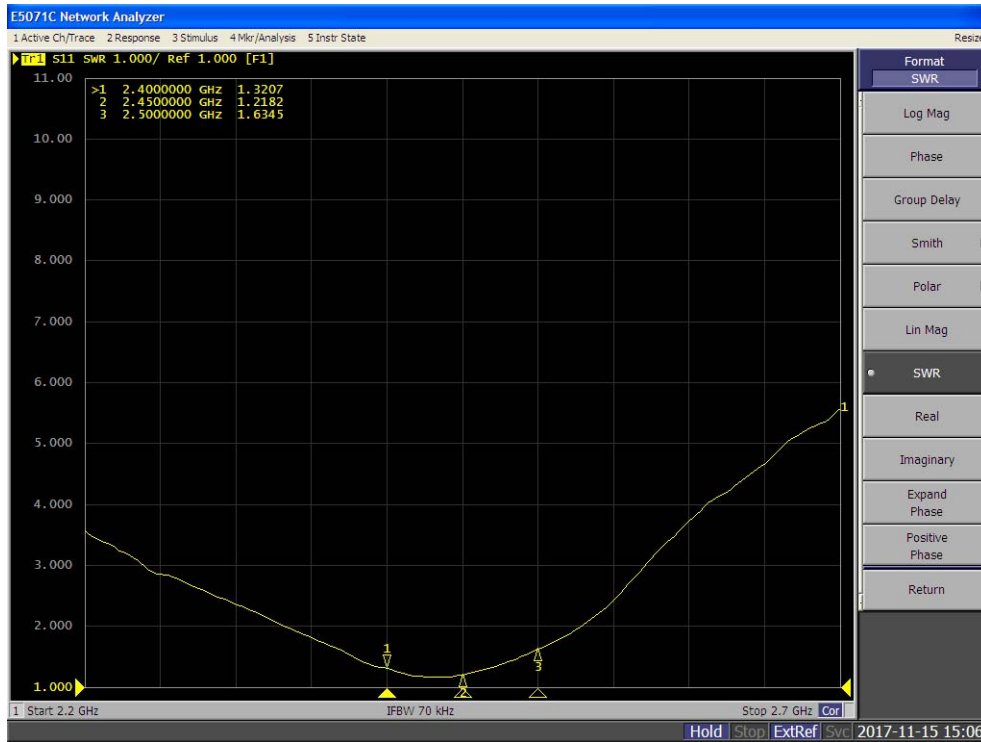


Theta=90°

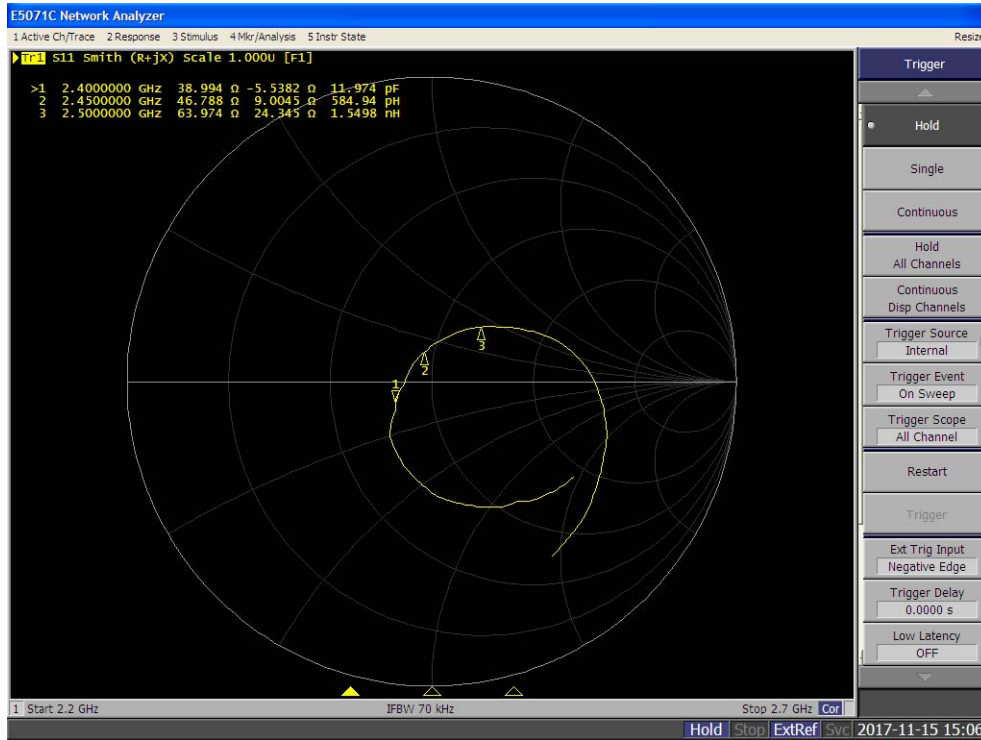




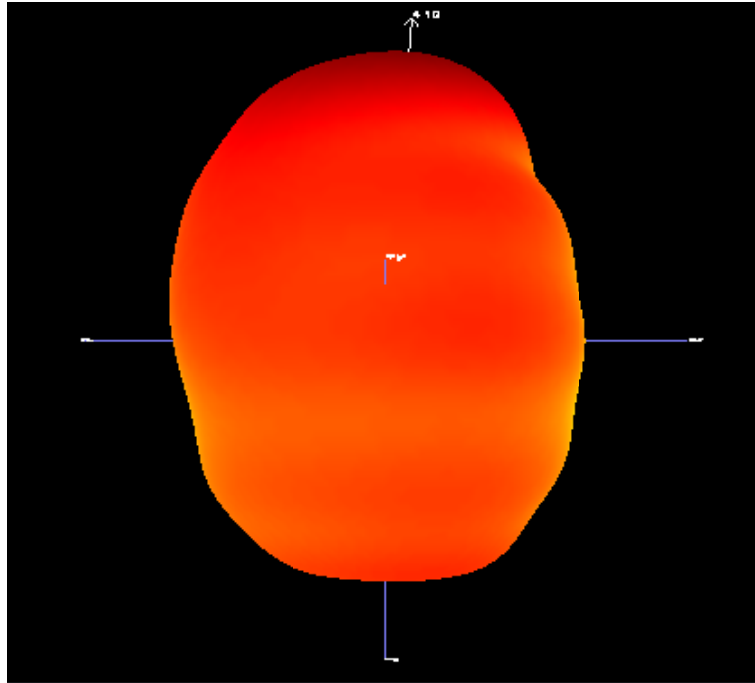
2. VSWR



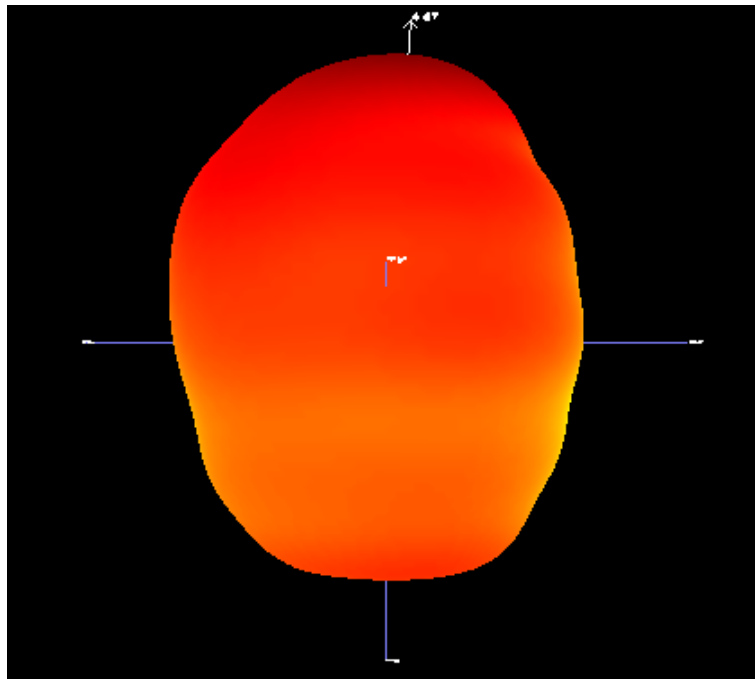
3. Impedance



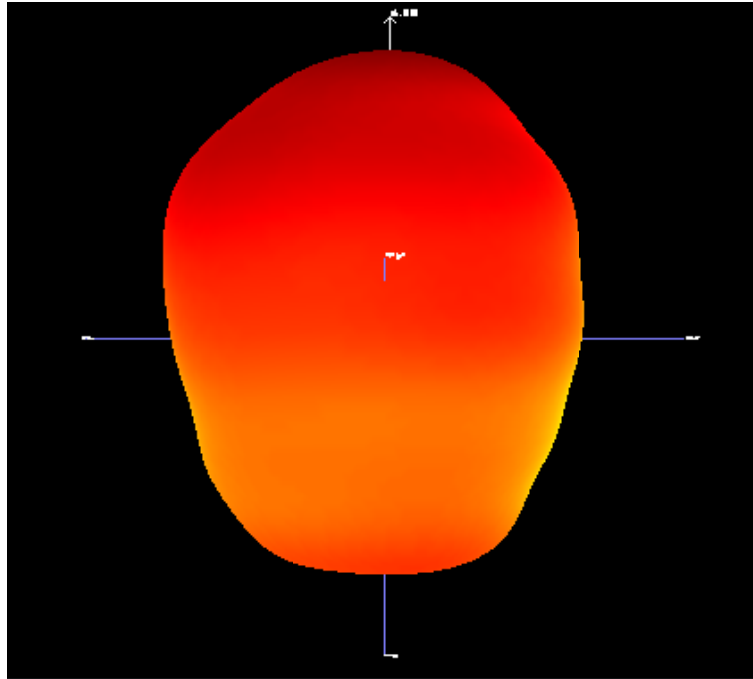
4. 3D Radiation Pattern



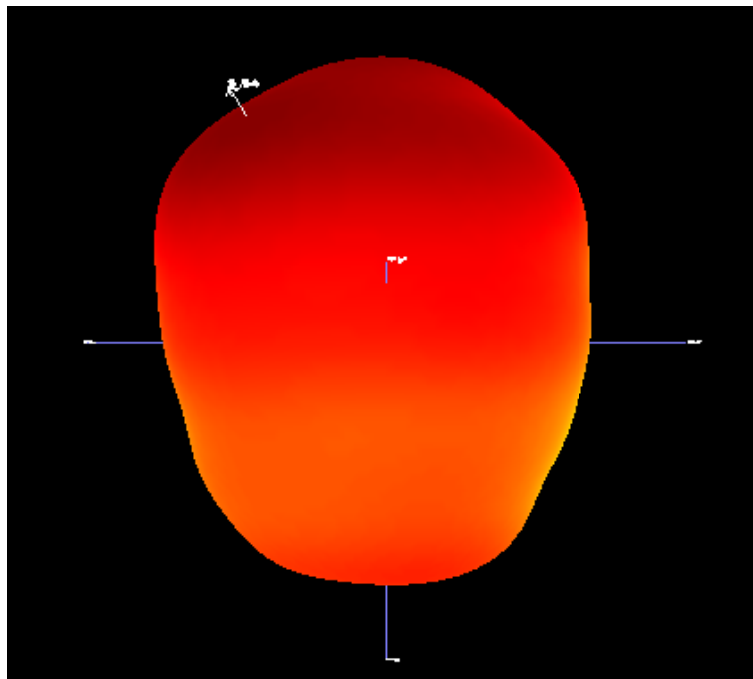
2400MHz



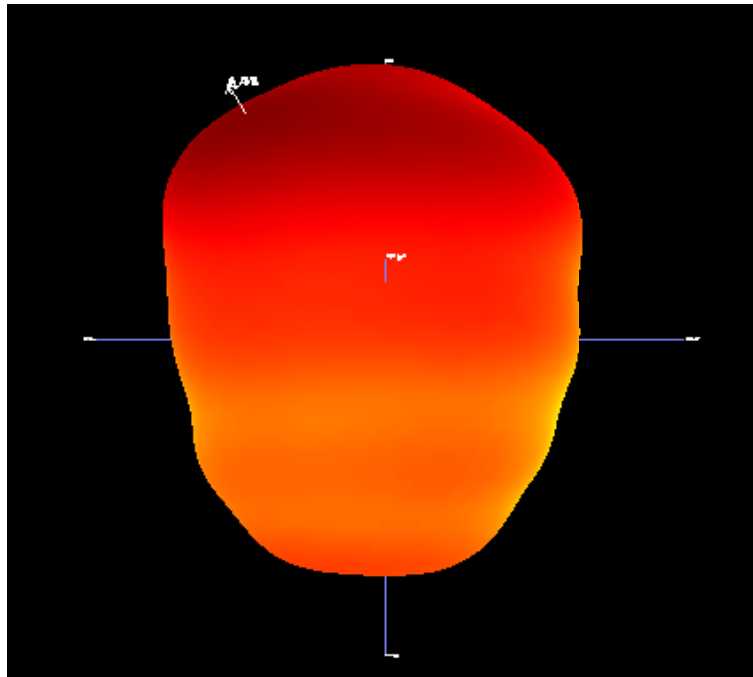
2410MHz



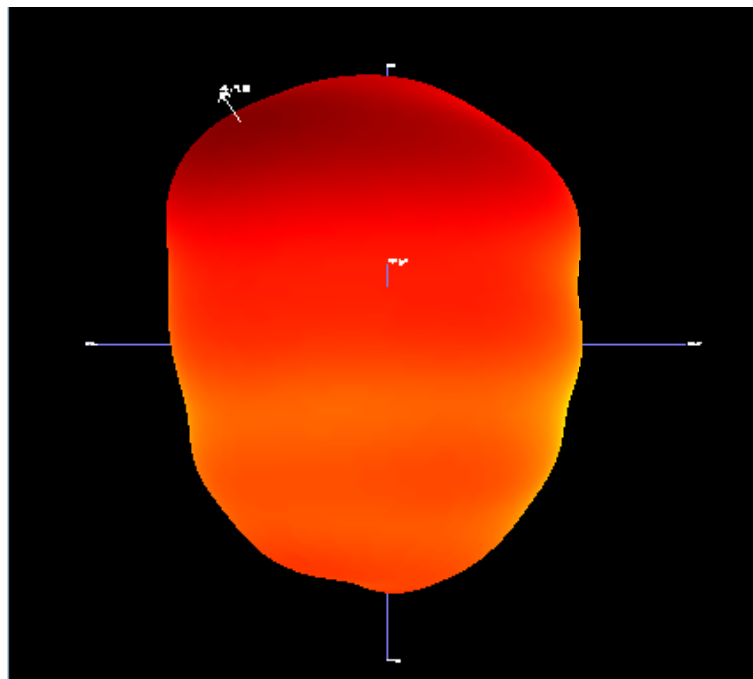
2420MHz



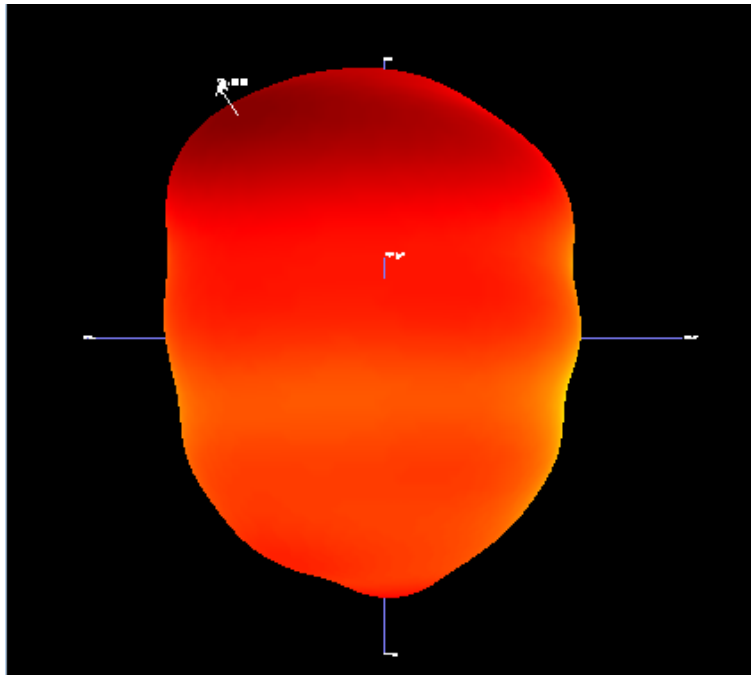
2430MHz



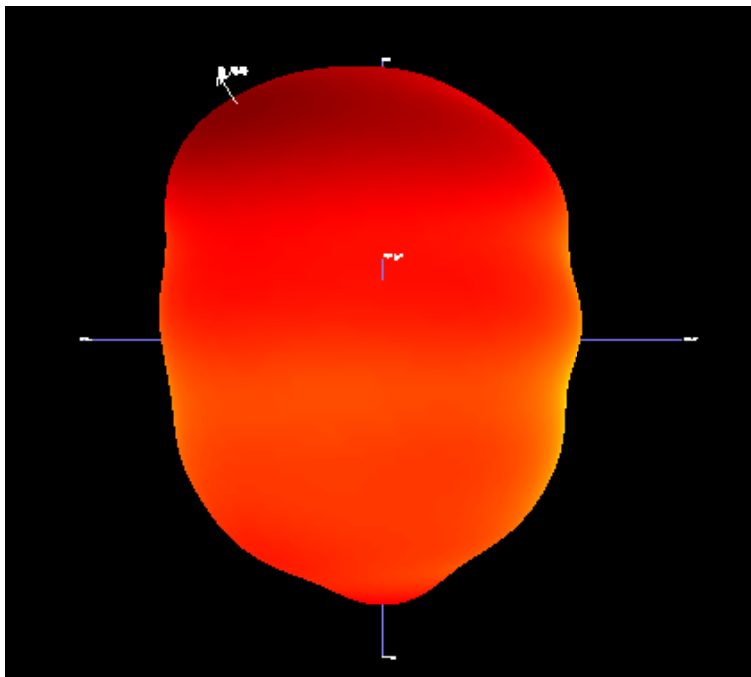
2440MHz



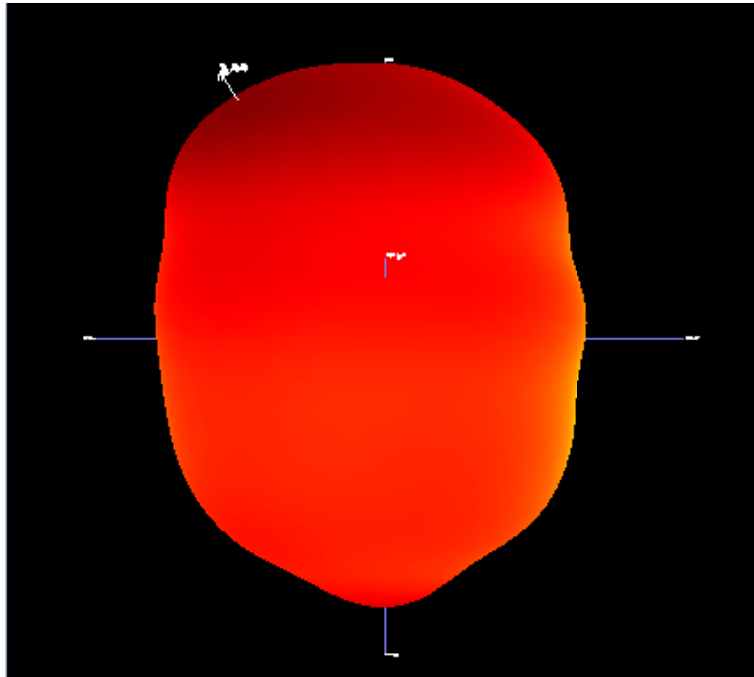
2450MHz



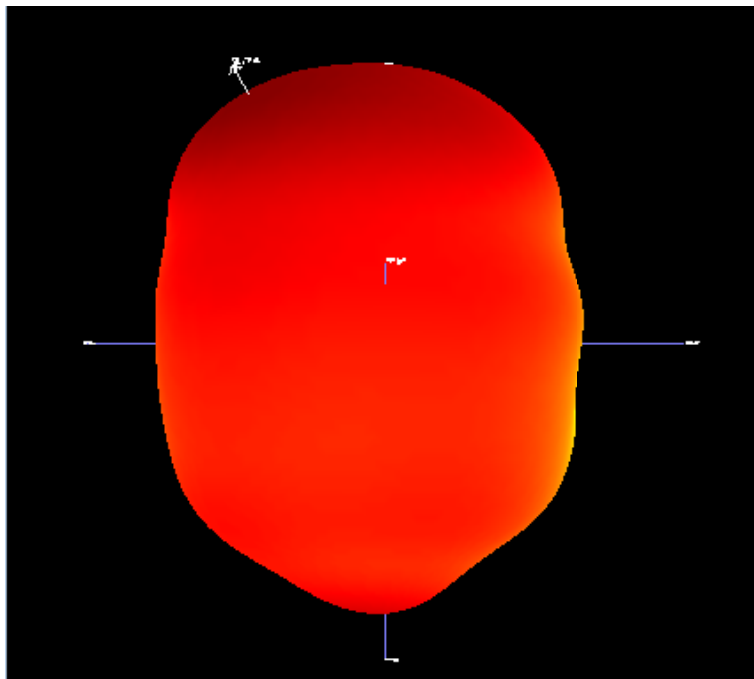
2460MHz



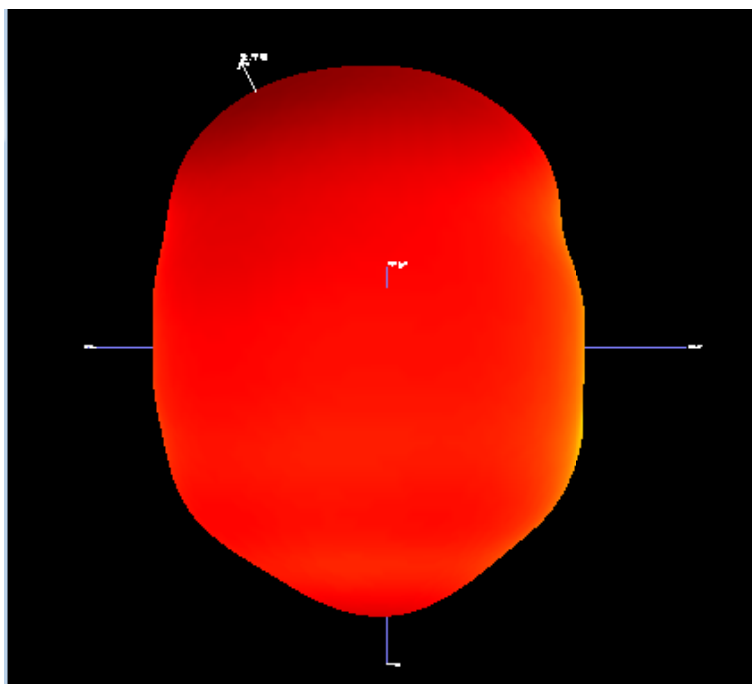
2470MHz



2480MHz



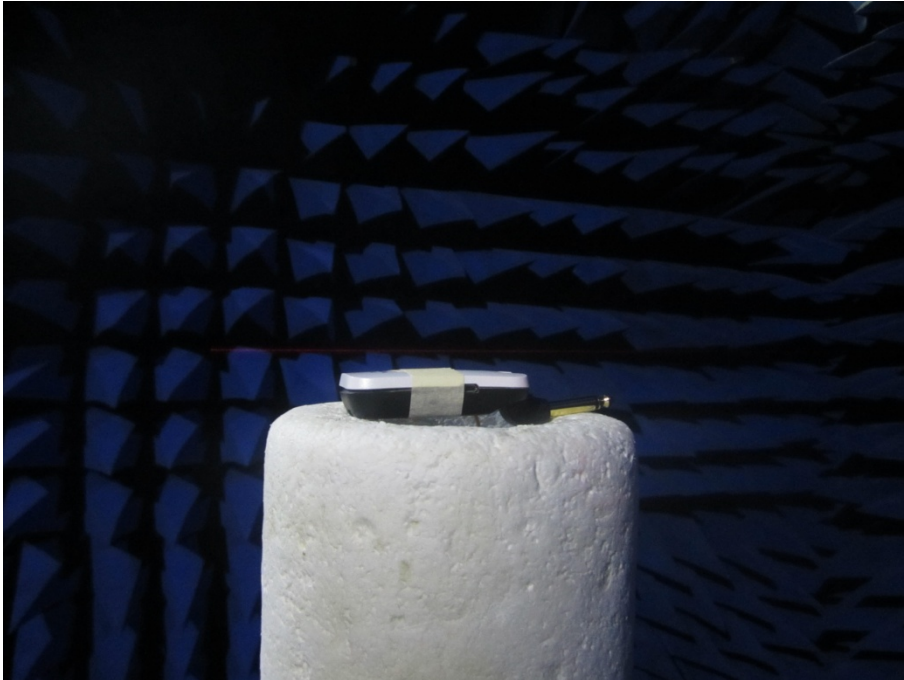
2490MHz



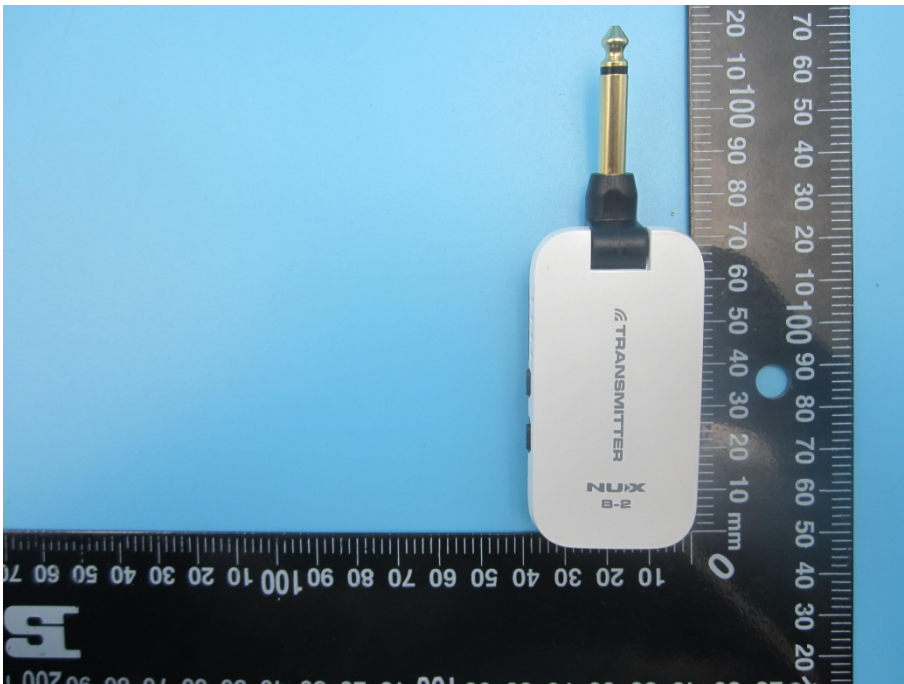
2500MHz

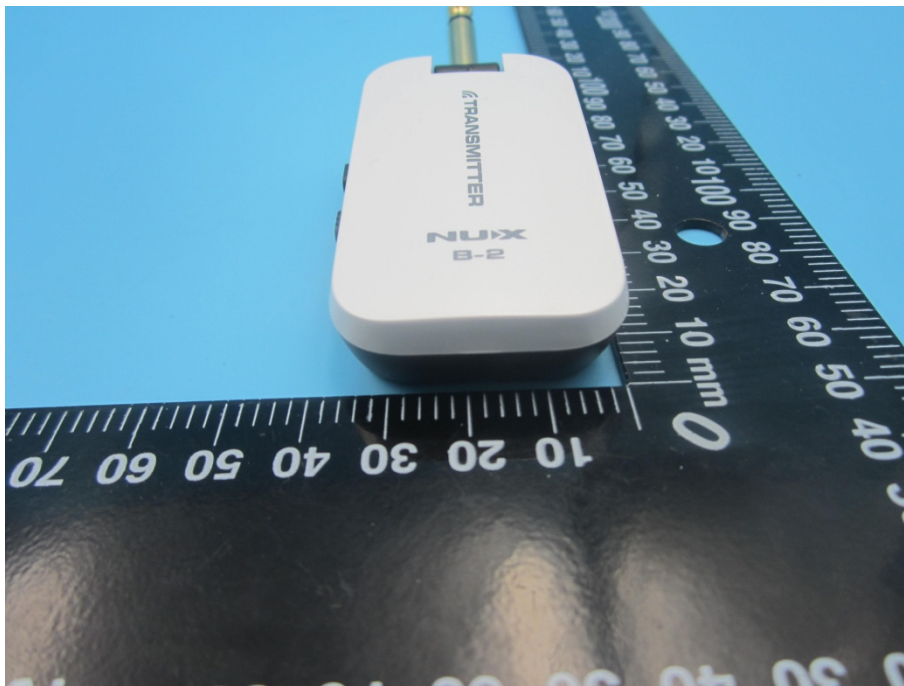
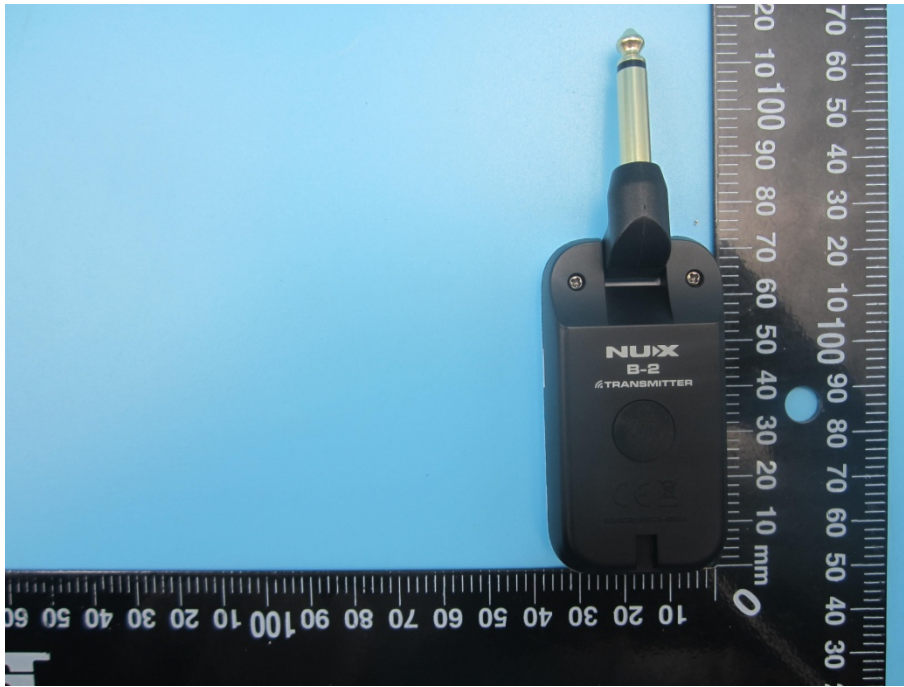
Annex C Photographs

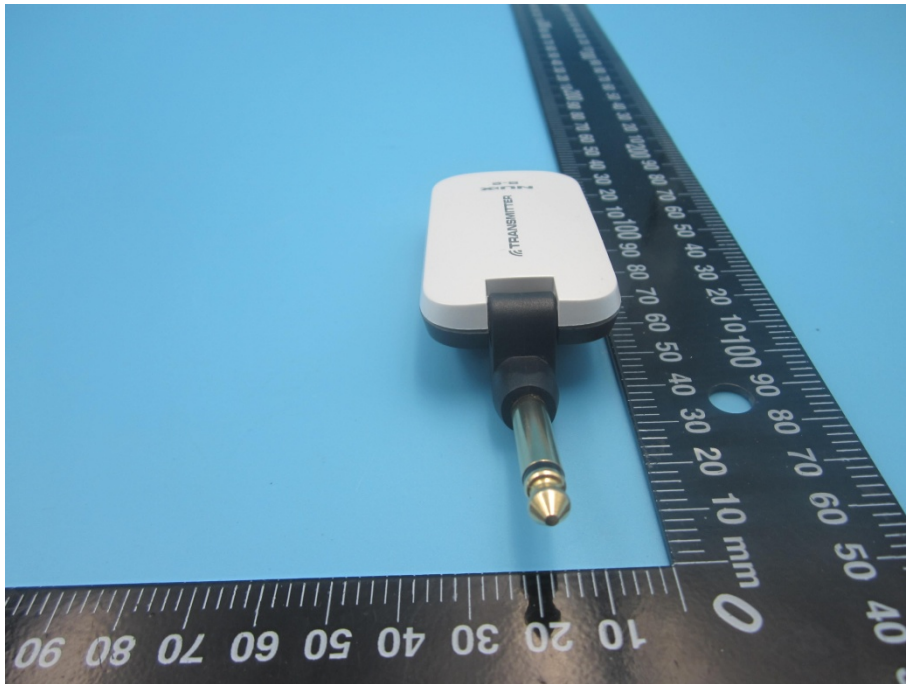
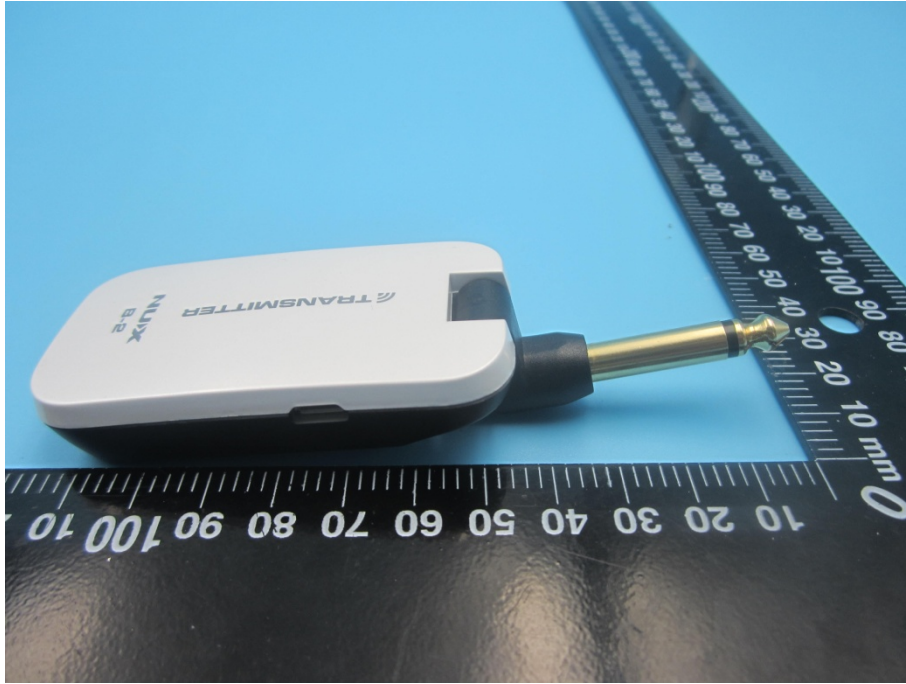
1. Test environment

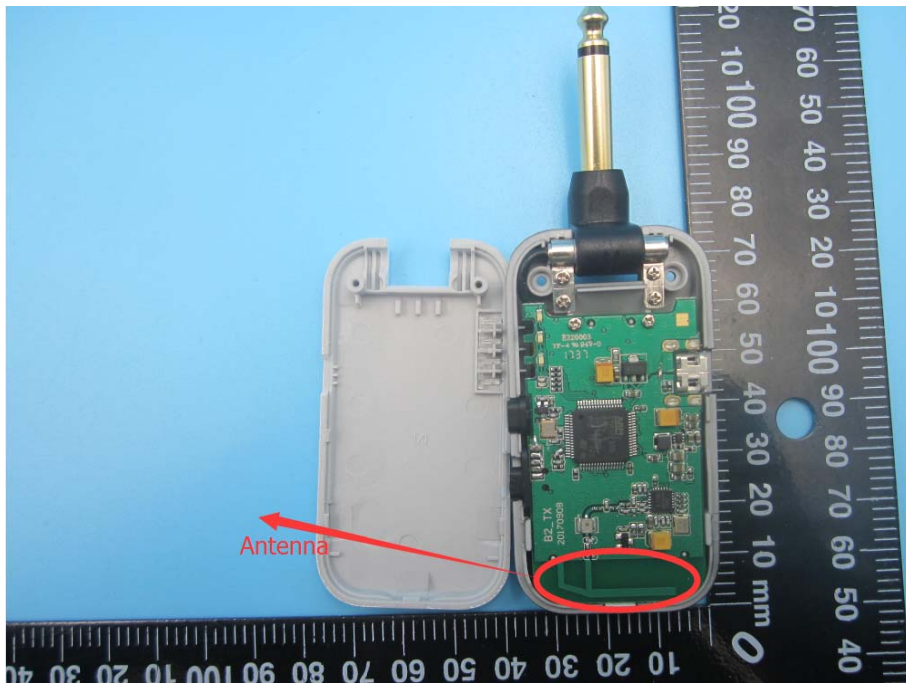
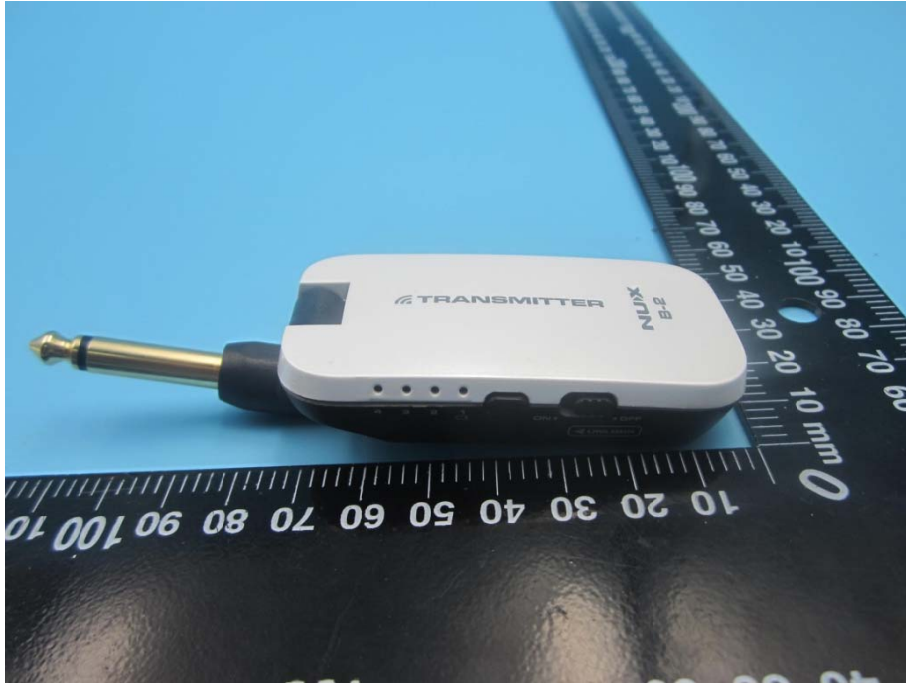


2. EUT











Annex D General Information

1.1 Identification of the Responsible Testing Laboratory

Company Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Department:	Morlab Laboratory
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Responsible Test Lab Manager:	Mr. Su Feng
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

1.2 Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

1.3 Test Equipments Utilized

1.3.1 List of Test Equipment

No.	Type	Specification
1	E5071C Vector Network Analyzer	Manufacturer: Agilent
2	4*4*4 Full Anechoic Chamber	Manufacturer: Satimo
3	SG24 Multi-probe Antenna Measurement System	Manufacturer: Satimo

END OF REPORT