



REPORT No.: SZ24100106E01

TEST REPORT

APPLICANT : Hyperice, Inc.

PRODUCT NAME : OMNI Antennas

MODEL NAME : OMNI-433/OMNI-BT

TRADE NAME : N/A

BRAND NAME : N/A

STANDARD(S) : IEEE Std 149-2021

RECEIPT DATE : 2024-10-15

TEST DATE : 2024-10-16

ISSUE DATE : 2024-10-24



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Approved by:

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Chi Shide(Supervisor)

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MORLAB

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Change History		
Version	Date	Reason for change
1.0	2024-10-24	First edition

1. Technical Information

Note: Provide by applicant.

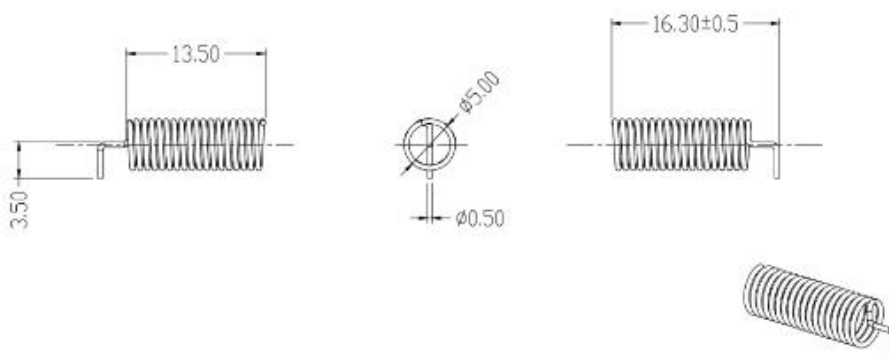
1.1. Applicant and Manufacturer Information

Applicant:	Hyperice, Inc.
Applicant Address:	525 Technology Drive, Suite 100, Irvine CA 92618
Manufacturer:	N/A
Manufacturer Address:	N/A

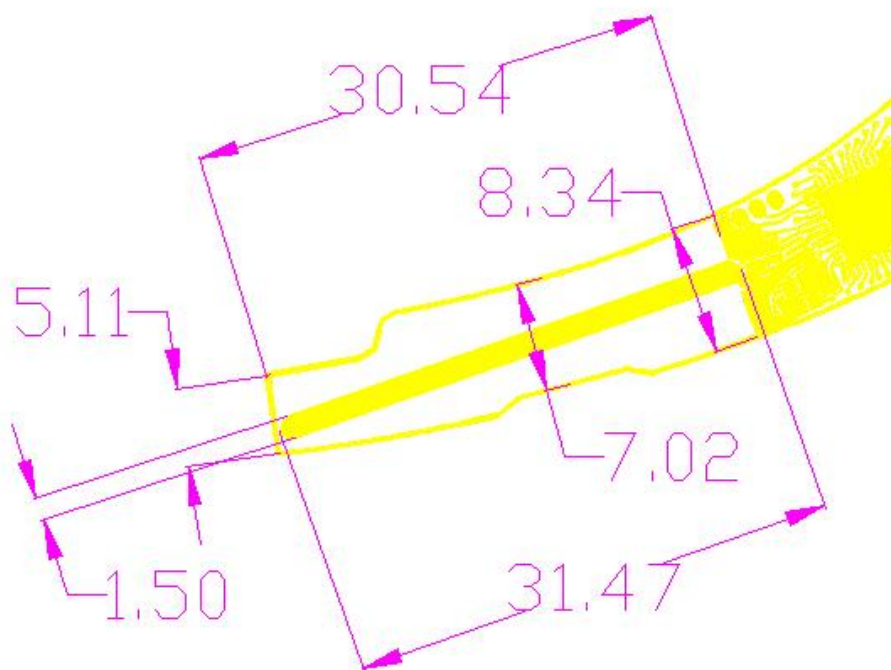
1.2. Equipment Under Test (EUT) Description

Wireless Type	N/A
Frequency	433.92MHz/2400MHz-2500MHz
Antenna Type	OMNI-433:helical antenna OMNI-BT:PCB antenna
Product HW Version	N/A
Product SW Version	N/A
IMEI	N/A
Sample No.	1#

Antenna Dimensions (mm) :



OMNI-433



OMNI-BT



2. Test Results

2.1. Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title
1	IEEE Std 149-2021	IEEE Recommended Practice for Antenna Measurements

2.2. Test Conditions

Test Environment Conditions:

Relative Humidity(%):	25 - 75
Temperature(°C):	10 - 30

2.3. Measurement Uncertainty

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO. When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% Confidence intervals.

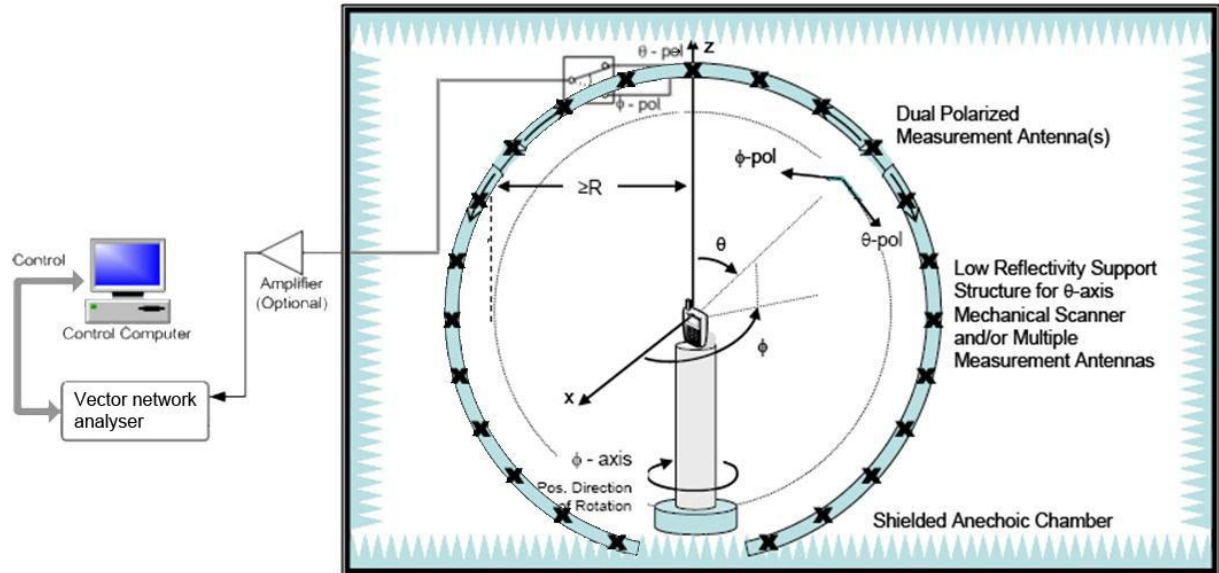
2.4. Test Results lists

2.4.1. Gain

OMNI-433	
Frequency (MHz)	Gain(dBi)
433	-0.66
433.92	-0.56
434	-0.61

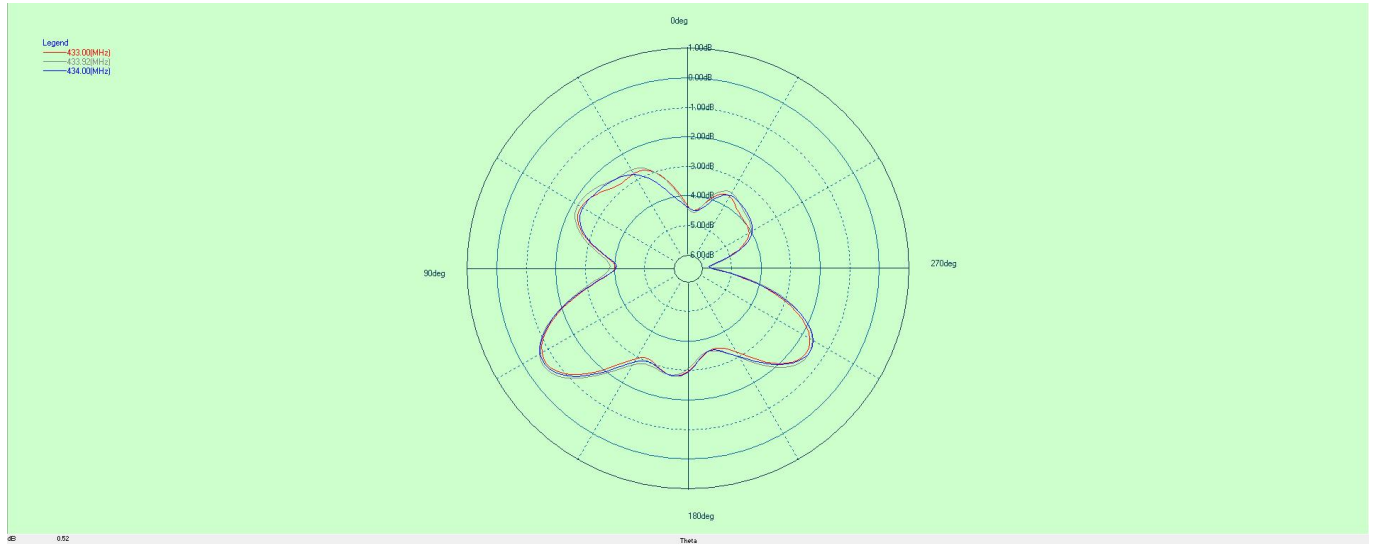
OMNI-BT	
Frequency (MHz)	Gain(dBi)
2400	1.18
2410	1.36
2420	1.31
2430	1.32
2440	1.42
2450	1.44
2460	1.44
2470	1.73
2480	1.67
2490	1.67
2500	1.61

Annex A Test Setup Photos

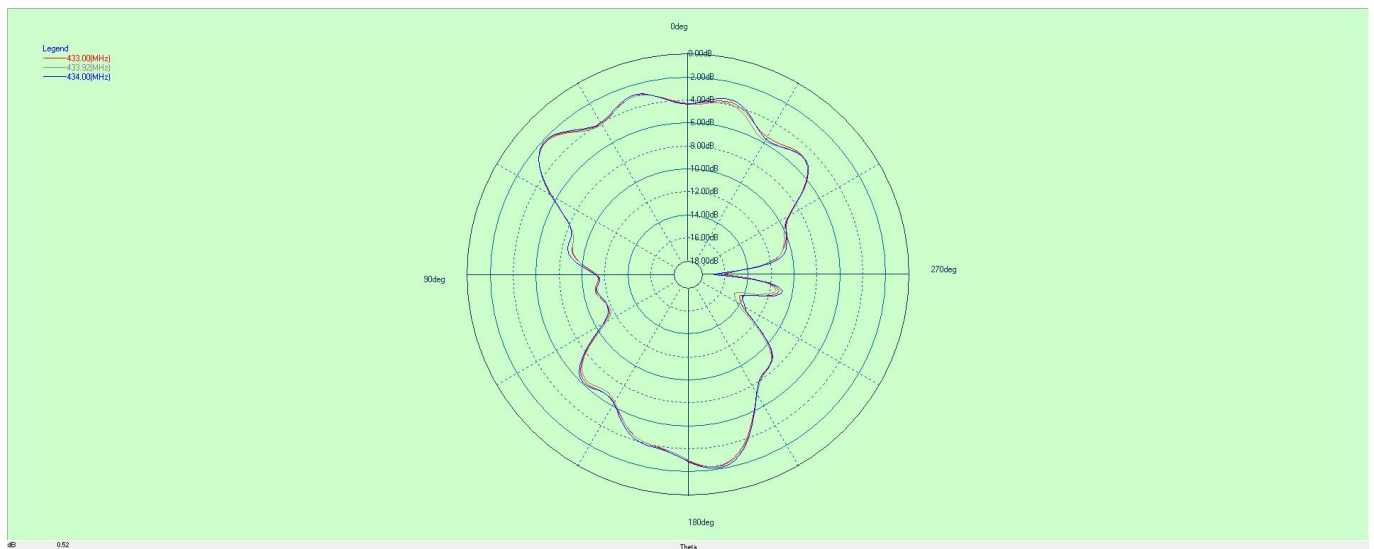


Annex B Figures

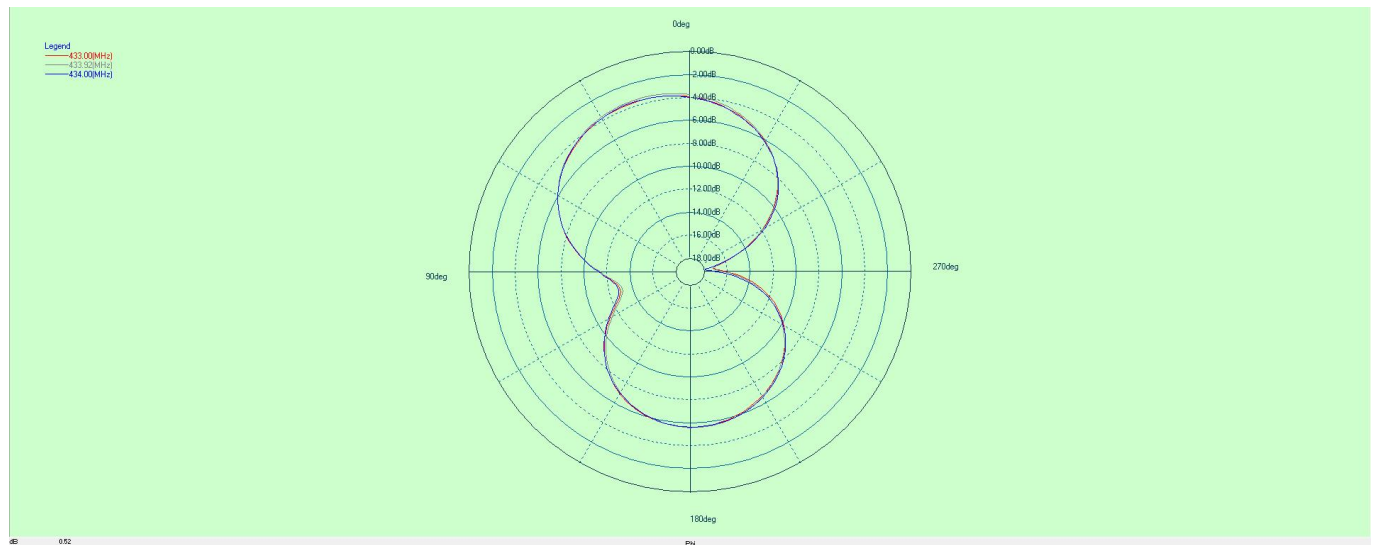
1. 2D Radiation Pattern



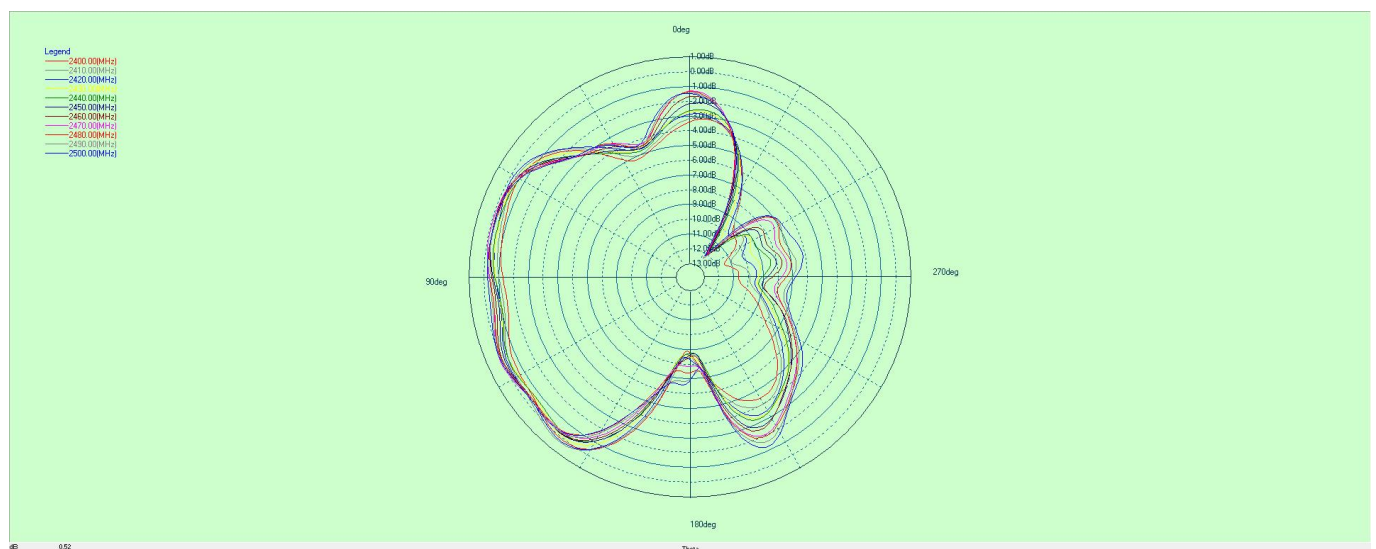
OMNI-433_ $\Phi=0^\circ$



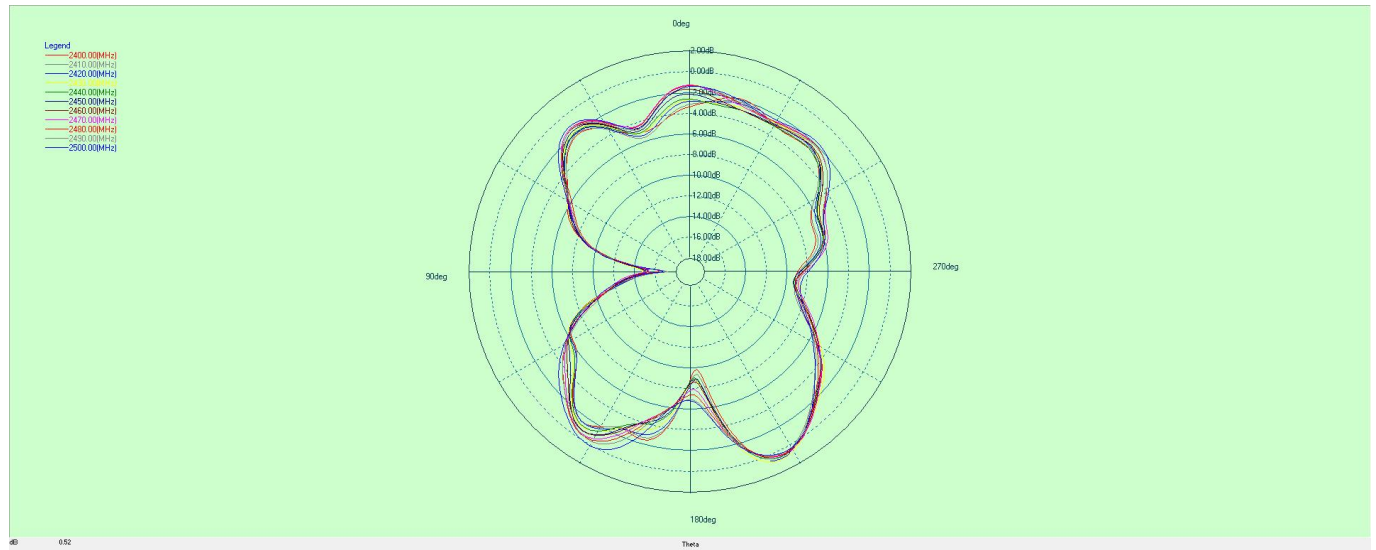
OMNI-433_ $\Phi=90^\circ$



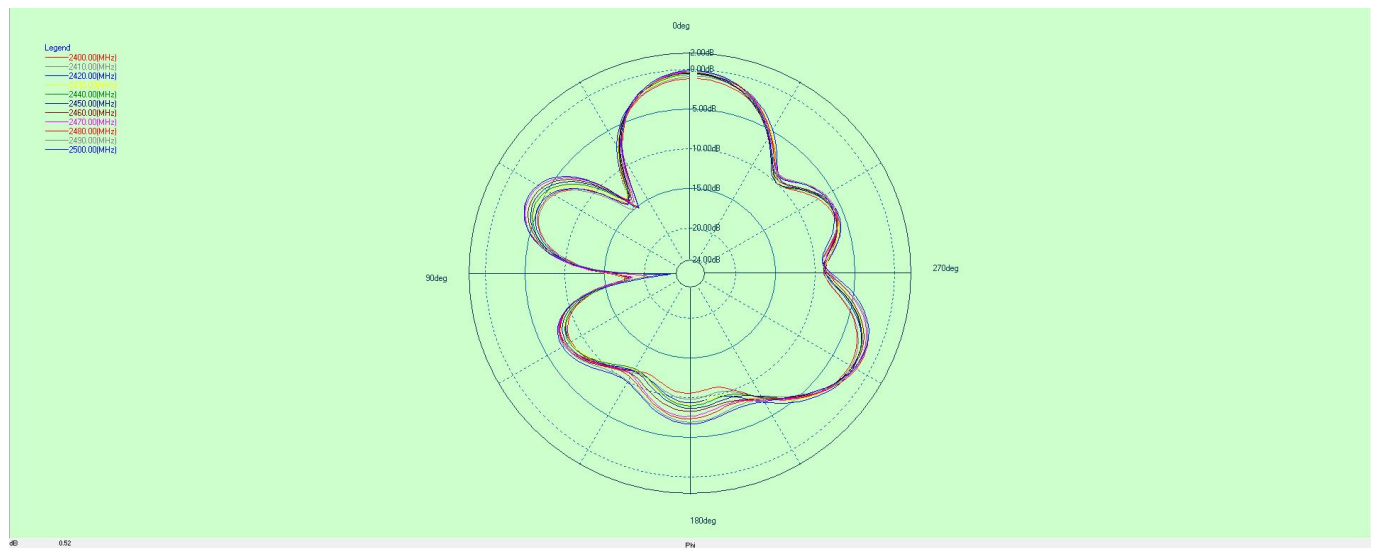
OMNI-433_Theta=90°



OMNI-BT_Phi=0°

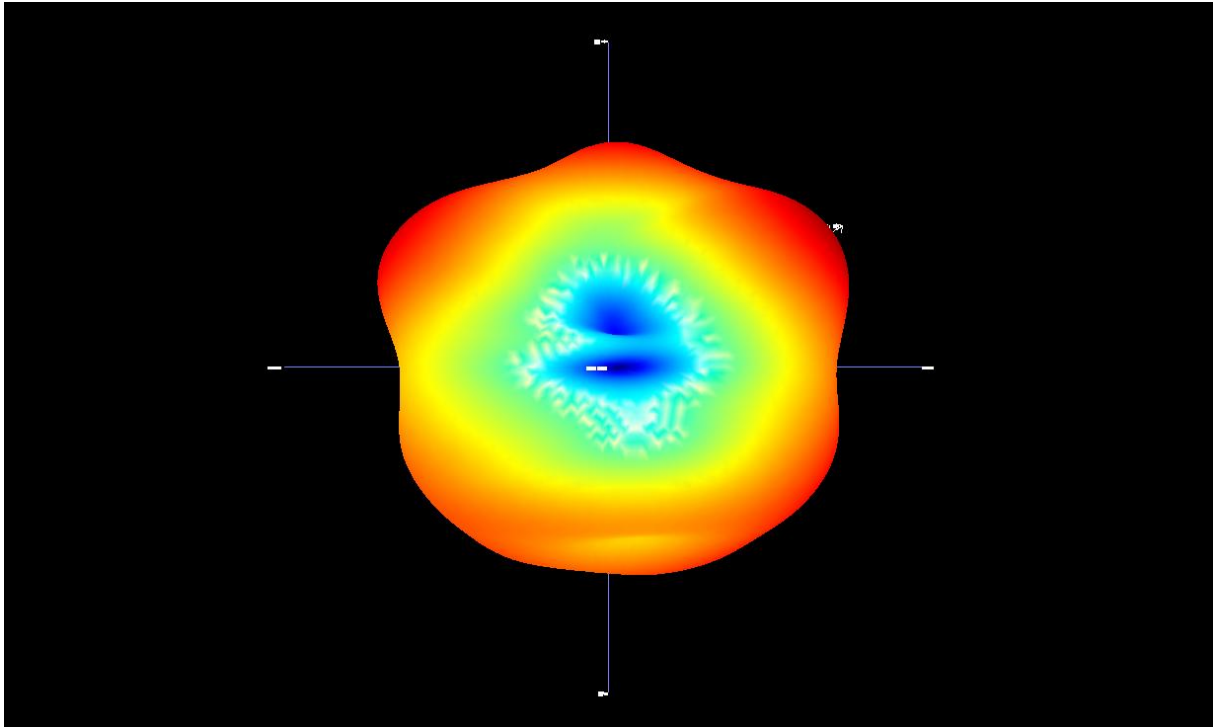


OMNI-BT_Phi=90°

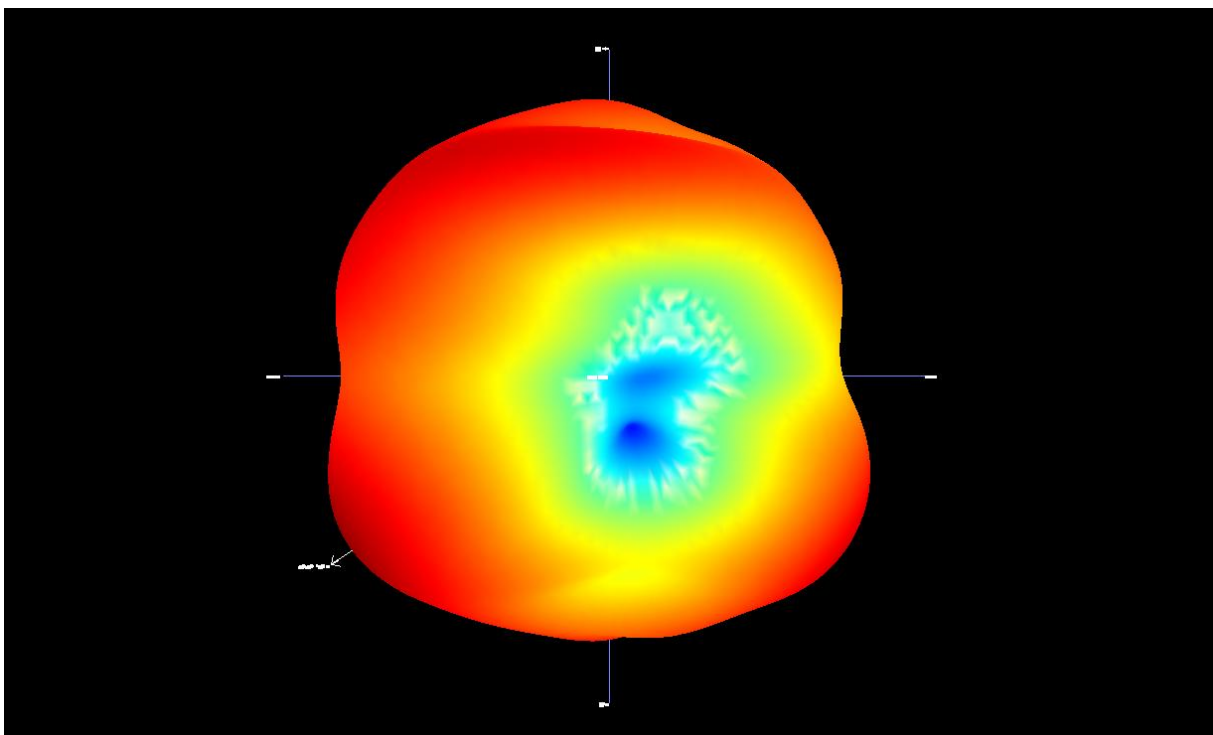


OMNI-BT_Theta=90°

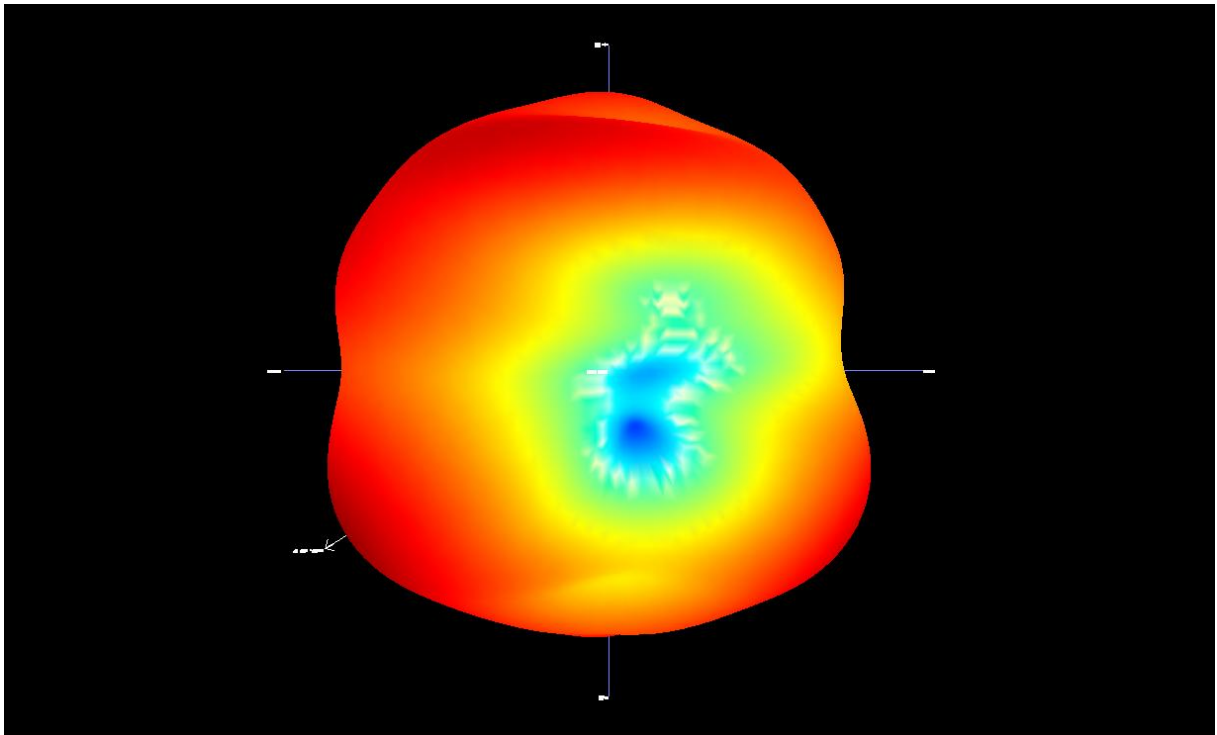
2. 3D Radiation Pattern



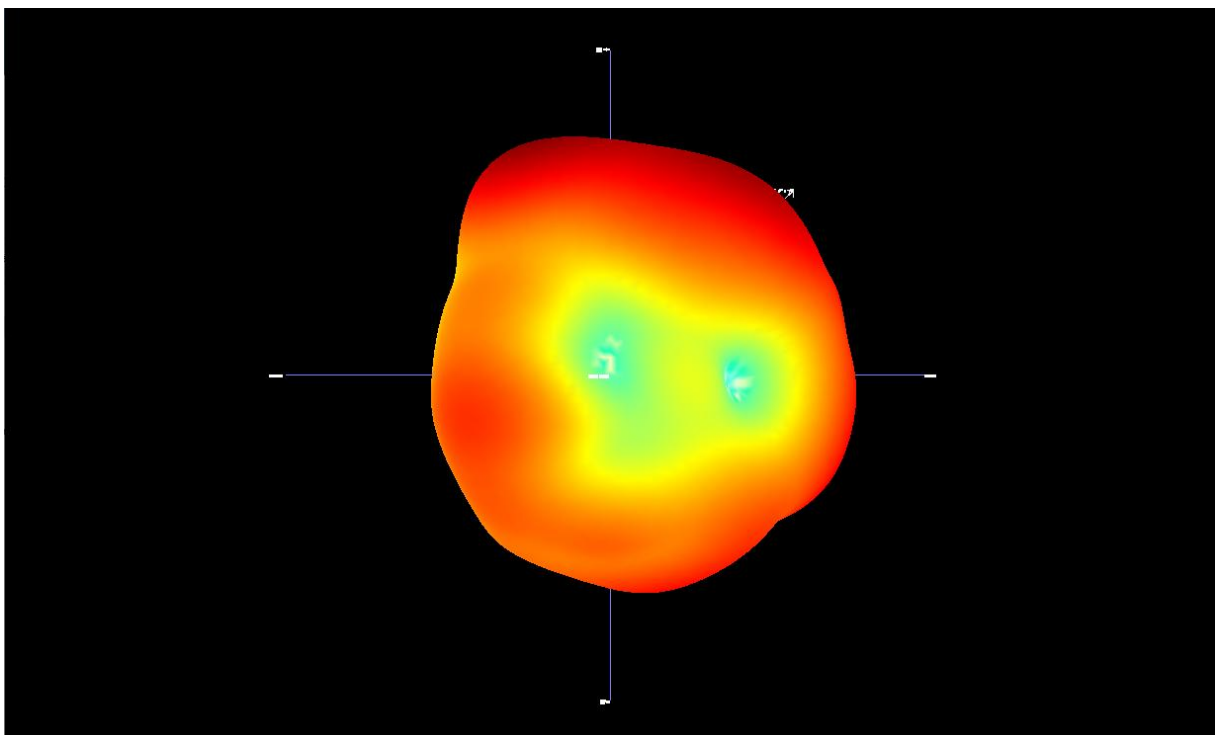
OMNI-433_433MHz



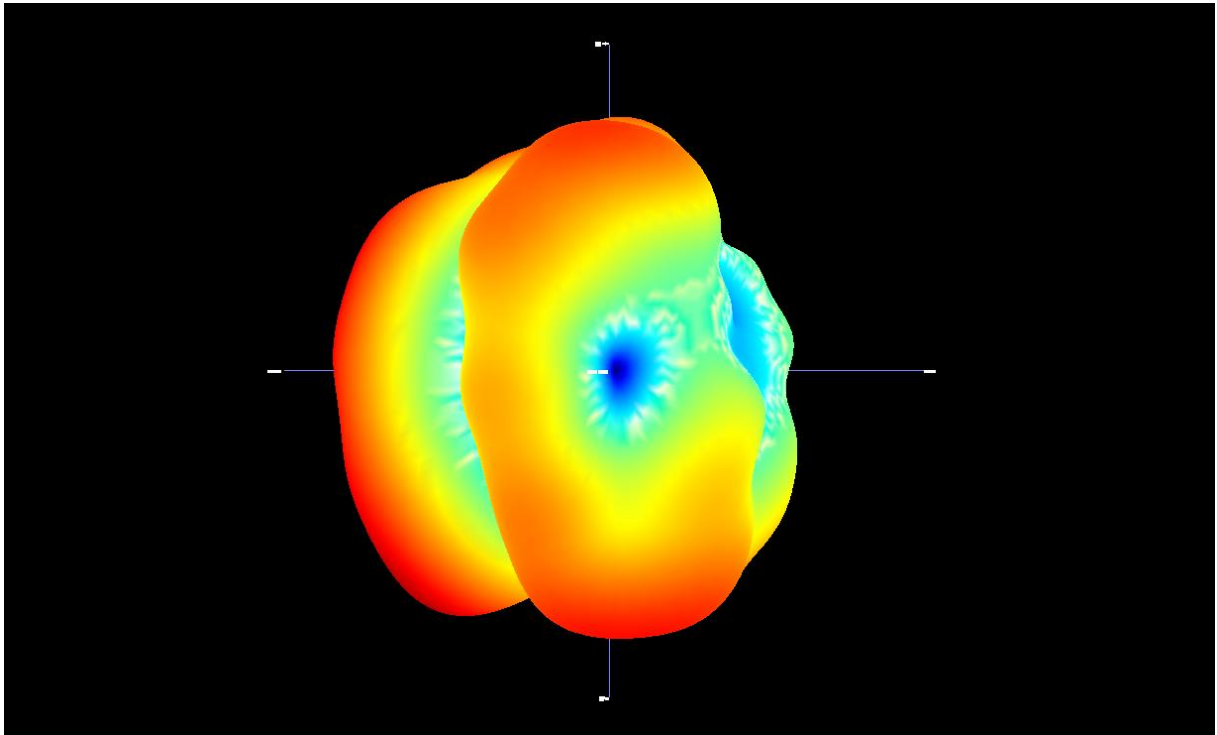
OMNI-433_433.92MHz



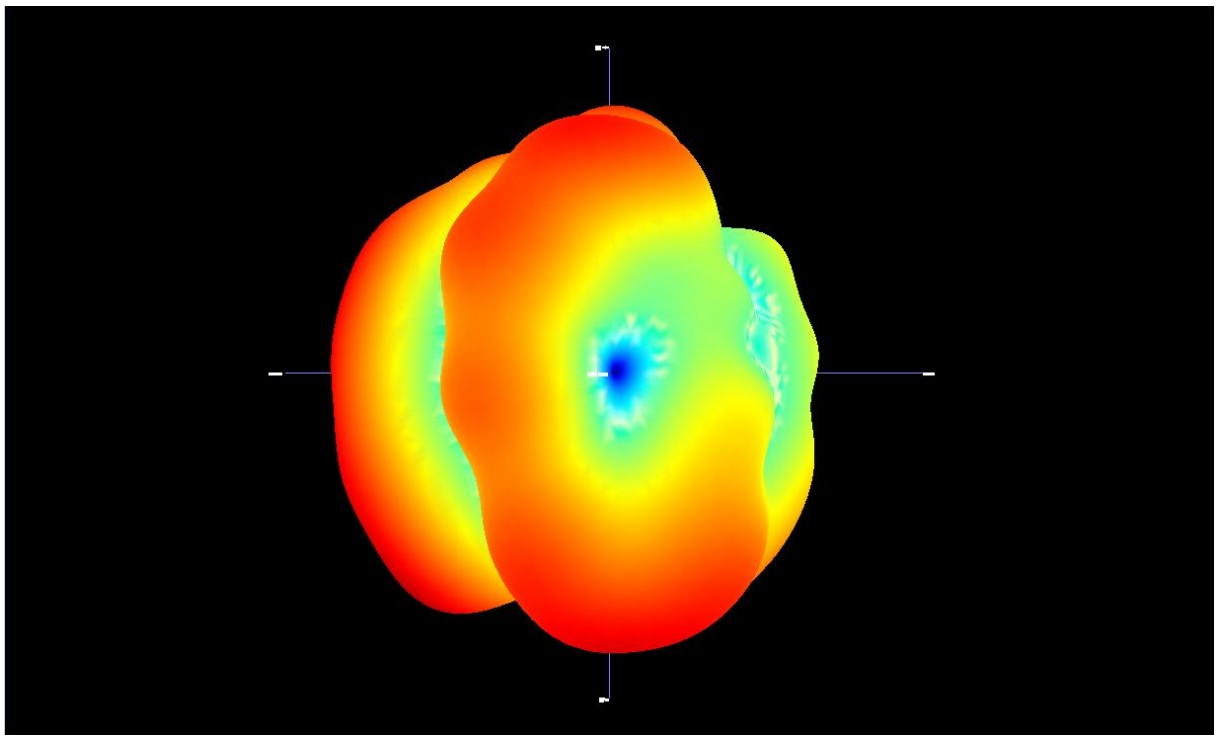
OMNI-433_434MHz



OMNI-BT_2400MHz



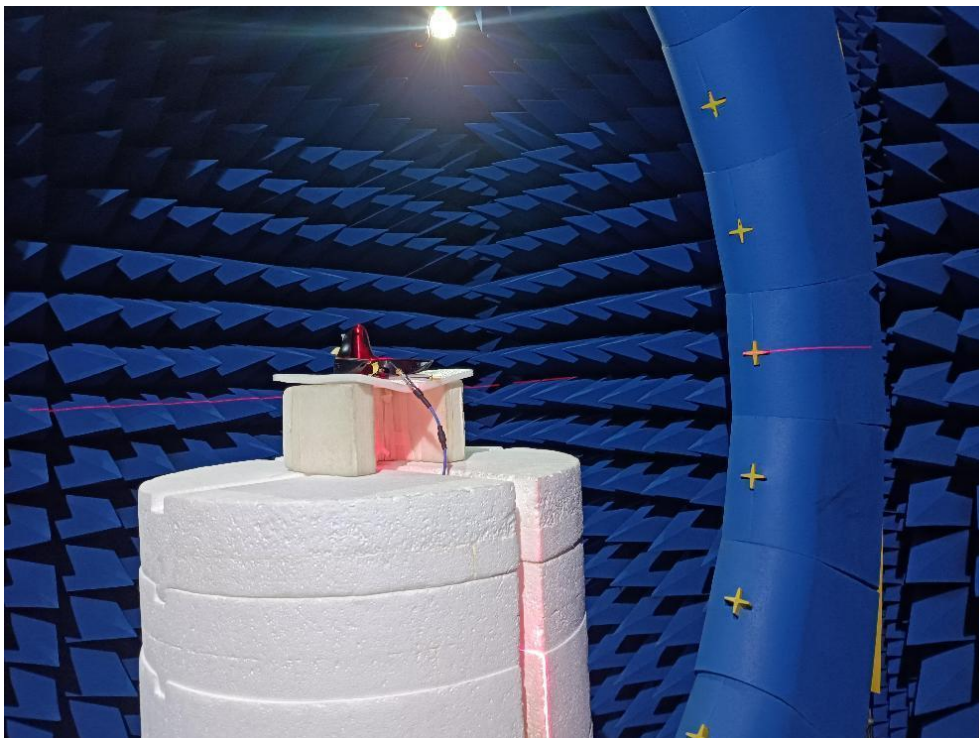
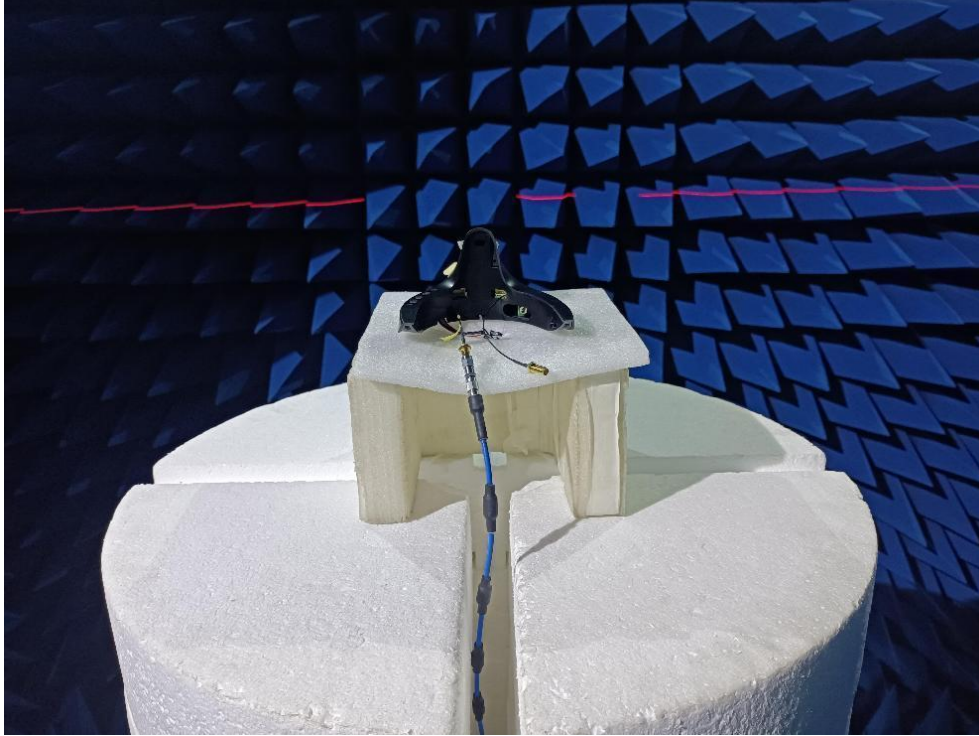
OMNI-BT_2440MHz



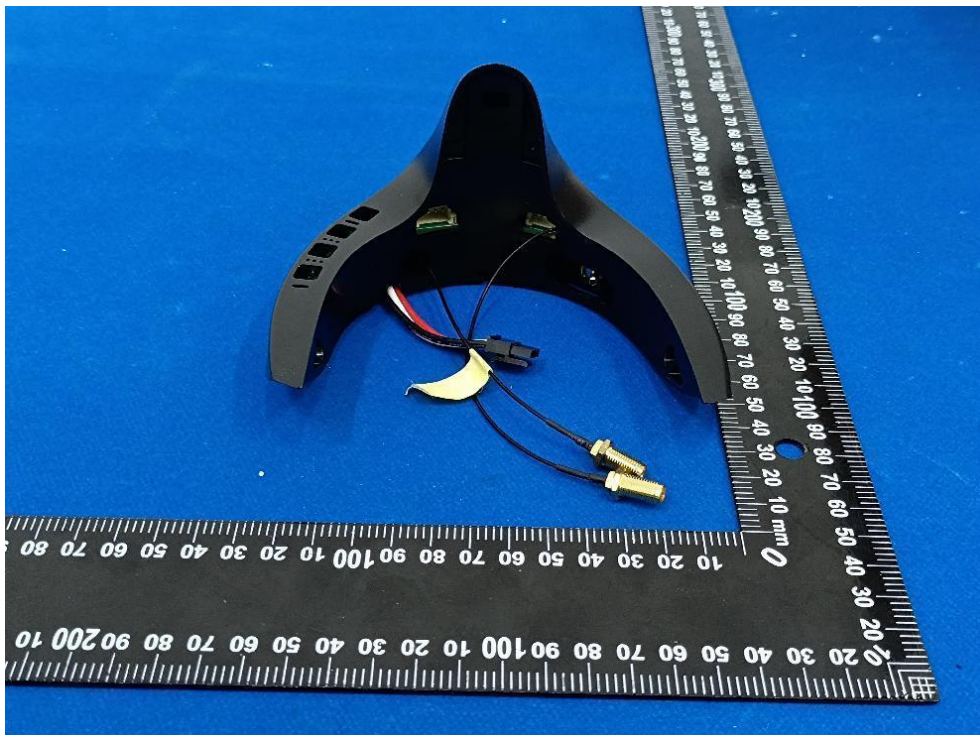
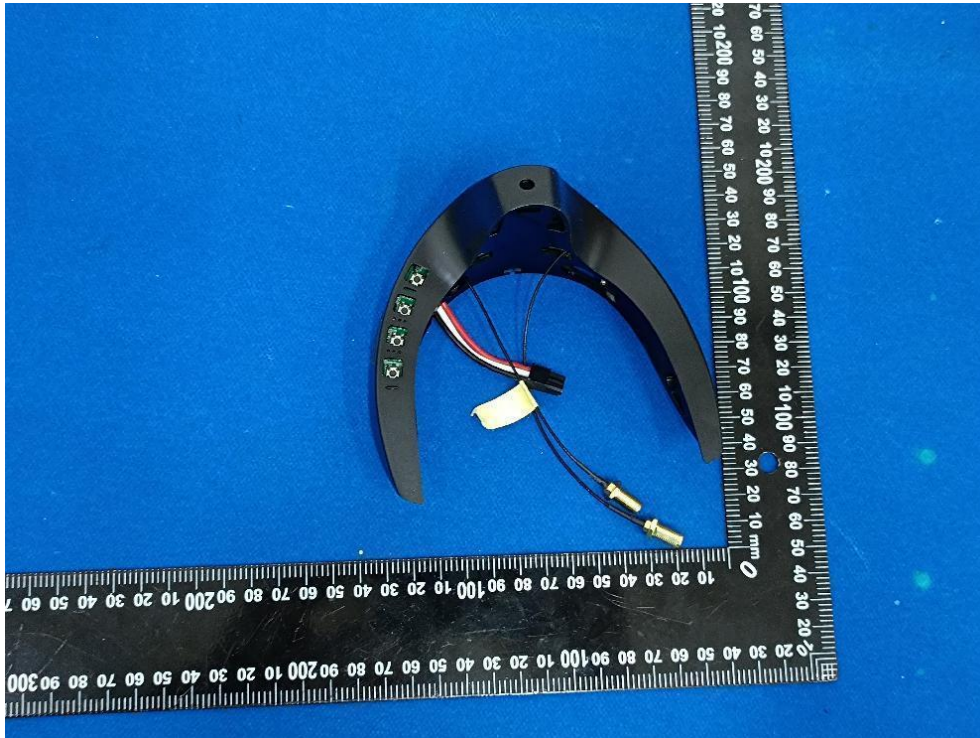
OMNI-BT_2480MHz

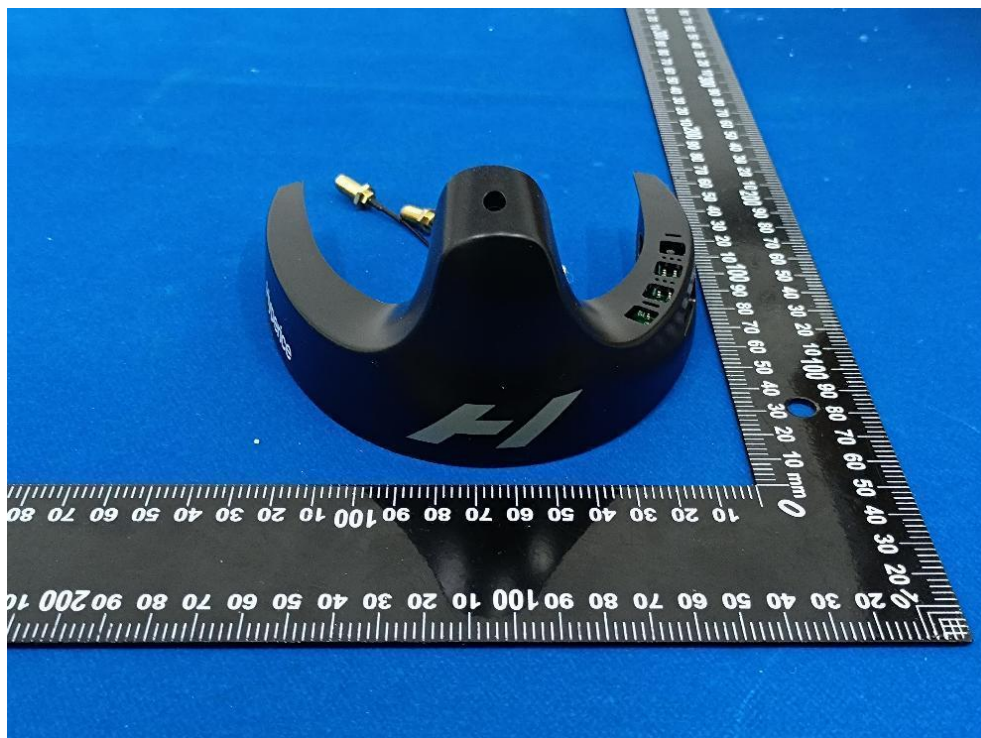
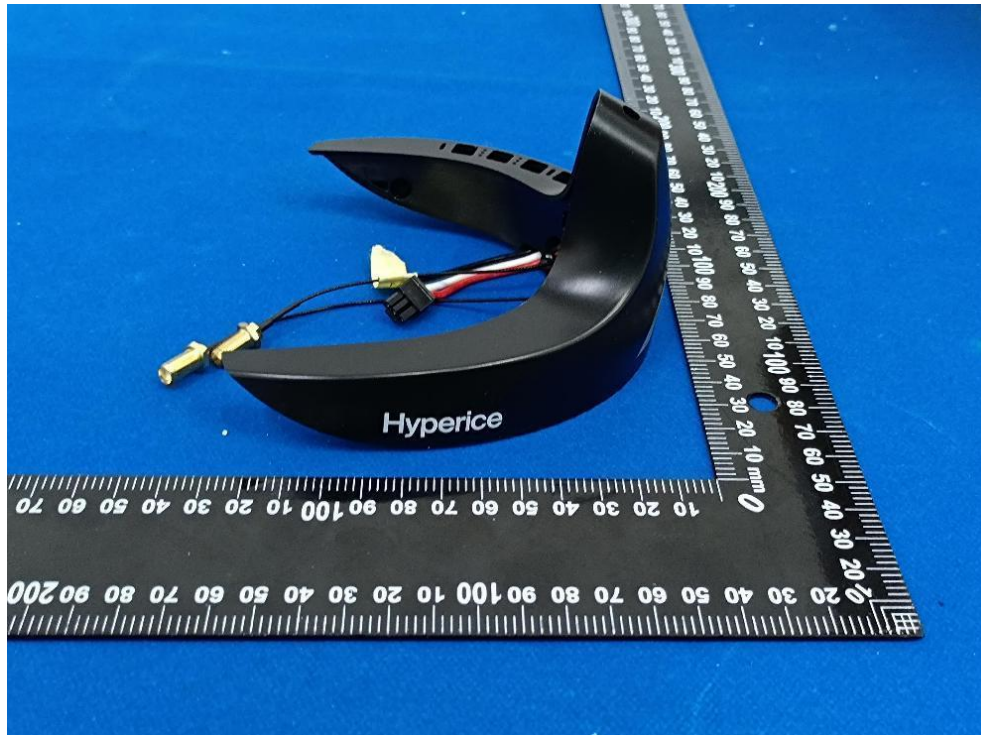
Annex C EUT Photos

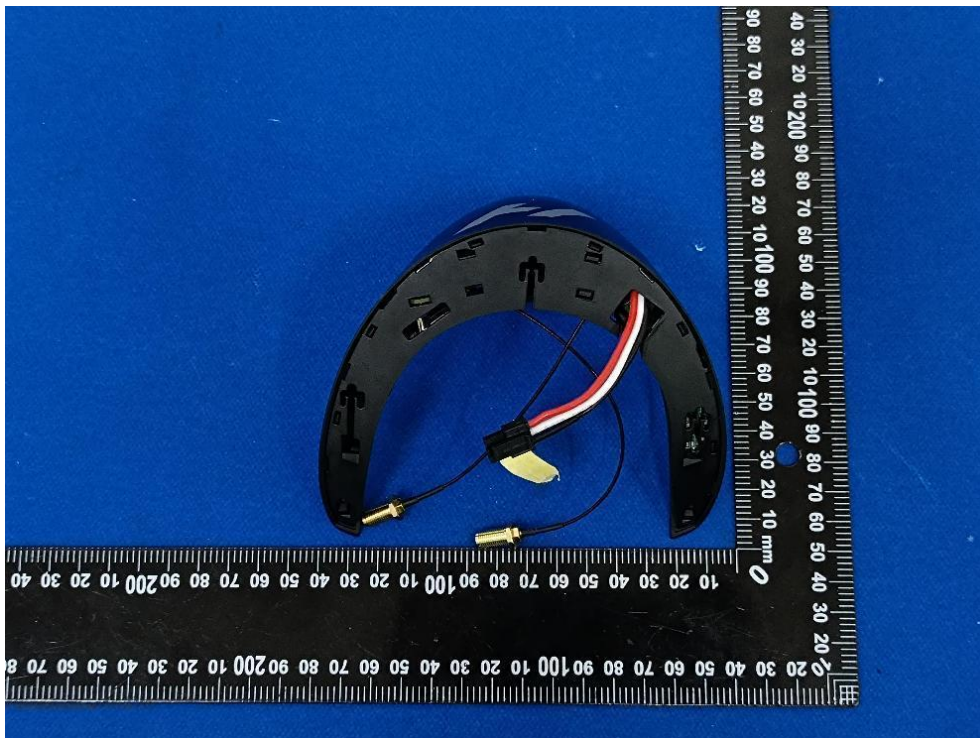
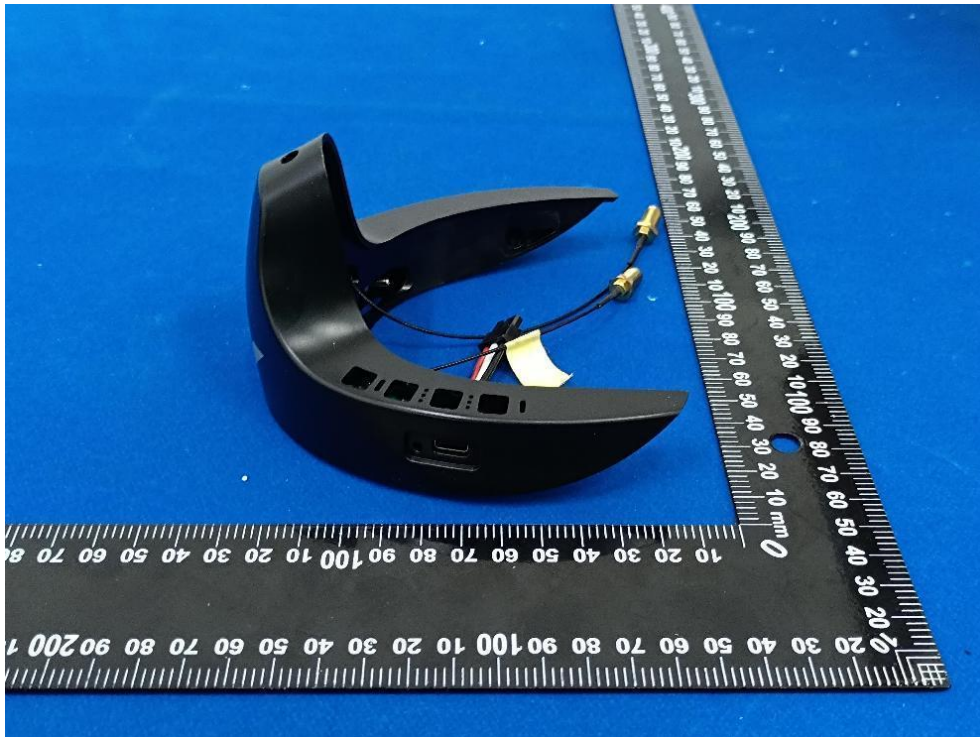
1. Test environment



2. EUT









Annex D General Information

1.1 Test Content

This report part of the test project (Return Loss) is beyond the scope of CNAS.

1.2 Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

1.3 Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Address:	FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China

1.4 Test Equipments Utilized

NO.	Equipment Name	Serial NO.	Type	Manufa- cturer	Cal.Date	Cal.Due Date
1	Vector Network Analyzer	MY46214666	E5071C	Agilent	2024.02.02	2025.02.01
2	OTA Chamber	N/A	SG24	Satimo	2022.01.17	2025.01.16



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1.5 Test Software Utilized

NO.	Software Name	Serial NO.	Version	Manufacturer
1	SatEnv	N/A	2.0.1.5 build 12	Satimo
2	SPM	N/A	1.11	Satimo

————— END OF REPORT —————