

Testing Report

Customer Name: SHENZHEN SHIXINZHONGXIN TECHNOLOGY. CO. , LTD

Product Name: BT Antenna

Sample Model: TWS-2036

Reference Standard: *GB/T9410-2008; ANSI/IEEE Std 149-1979*

Issue Date: 2023.07.31

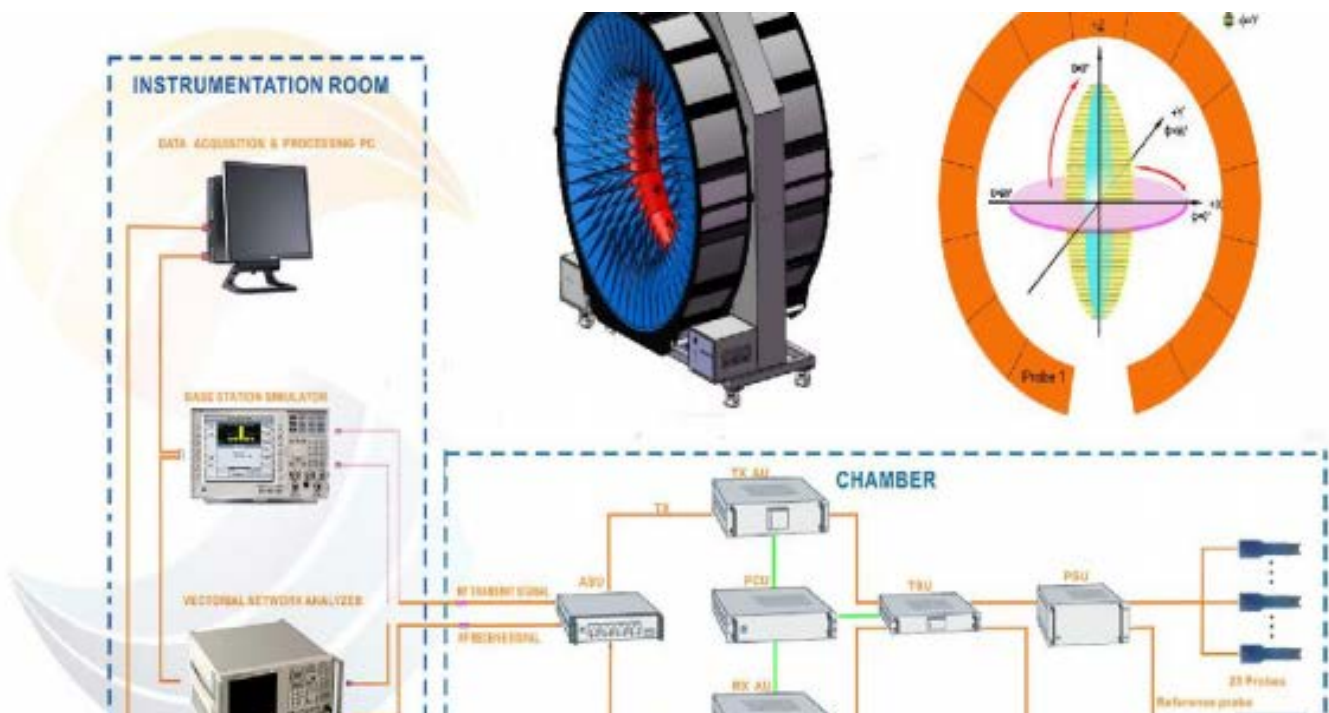
1. General Information

1.1 General Information of testing institutions

Name	Shenzhen Hetuo Technology Co. , Ltd .
Address	Room 1202 B , Building C6 , Hengfeng Industrial City , Xixiang , Ba oan District , Shenzhen
Tel	18665849001
E-mail	18665849001@163.com
Equipment	Agilent 5071C

1.2 Testing principle

Multi- probe OTA Measurement System



1.3 Test equipment

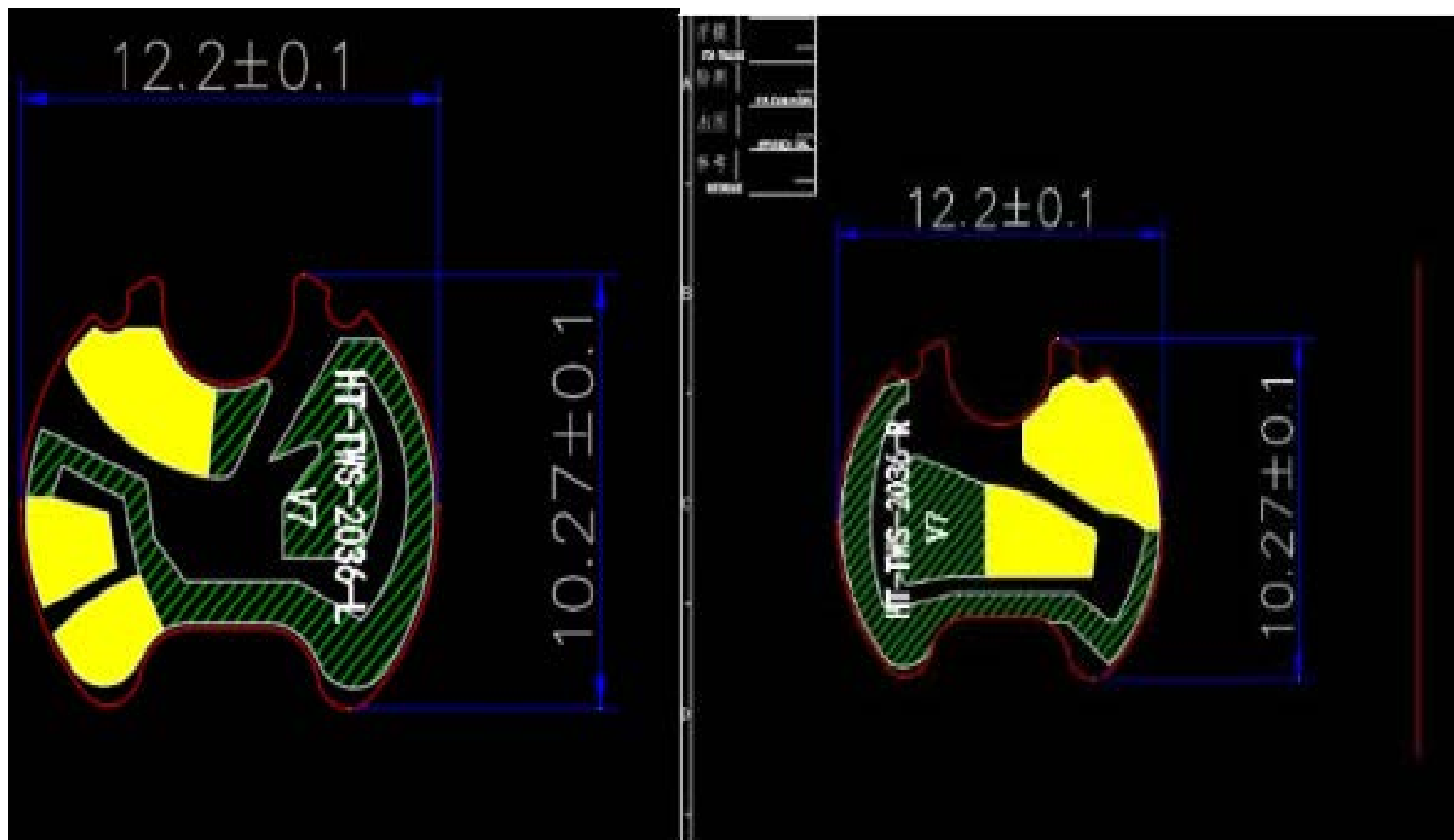
Equipment	Model No.	Serial No.	Manufacturer	Calibration date	Next calibration date
24 probe microwave chamber	4*3*3	NA	FEITU	2023.06.29	2023.08.31
Network Analyzer	5071C	NA	Agilent	2023.06.29	2023.08.31

1.4 Test environment

Temperature	24C± 1.5 C
Humidity	45% RH
Pressure	101kPa

1.5

Antenna Photo & Lenght(mm)



2. Sample Information

2.1 Client information

Name	SHENZHEN SHIXINZHONGXIN TECHNOLOGY.CO.,LTD
Address	A1 , Shajing Donghuan Industrial Zone , Bao ' an District , Shenzhen
Contacts	Ma Chao
Tel	18218809918
E-mail	machao@ c- chip. com. cn

2.2 Description of EUT(S)

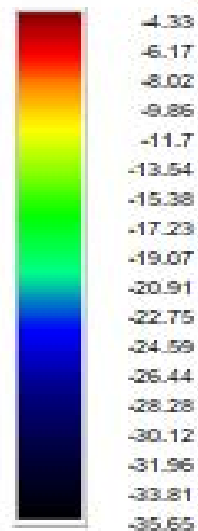
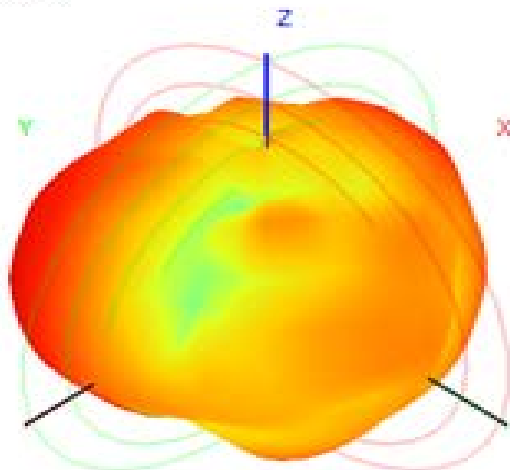
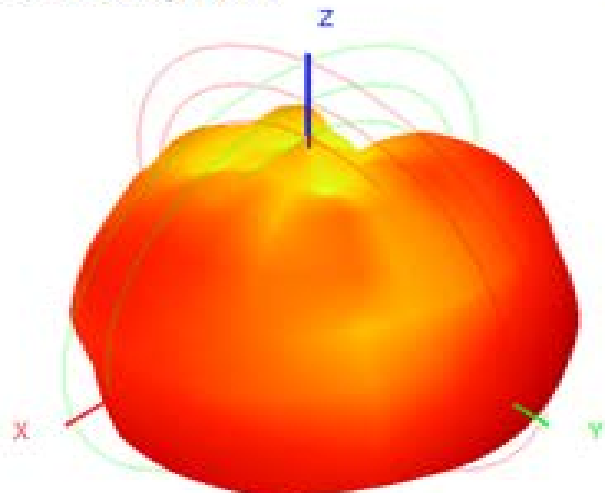
Product Name	BT Antenna
Sample Model	
Antenna Size	4.6*10.4mm
Antenna Type	FPC antenna
Serial No.	/
Test Item	Antenna Gain, Radiation pattern
Frequency Range	2400-2500MHz
Received Date	2023.07.25
Test Date	2023.07.25
Remark	The length of the RF cable is 50mm

Test data--R

Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	-4.33	-3.73	-3.51	-3.09	-2.60	-2.16	-2.06	-1.42	-1.79	-1.88	-1.78

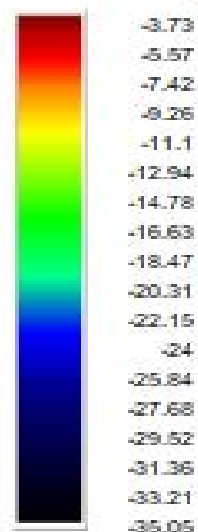
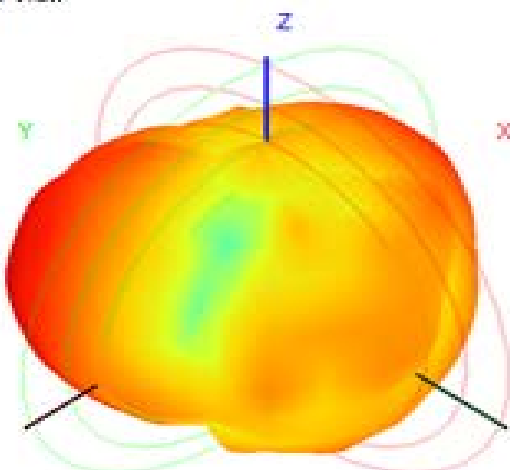
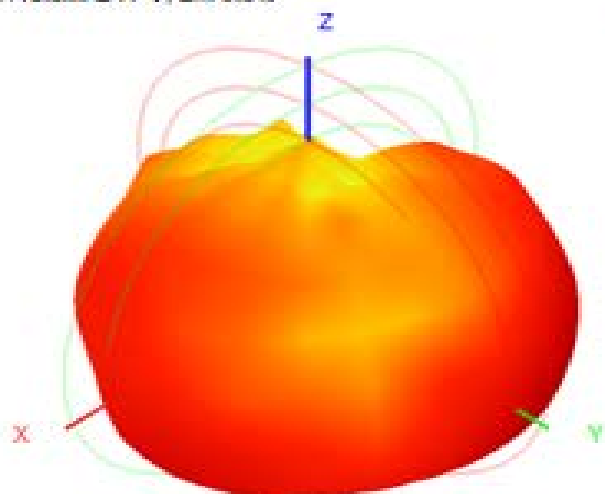
2400.0MHz H+V, Eff: 8.5%

Back View



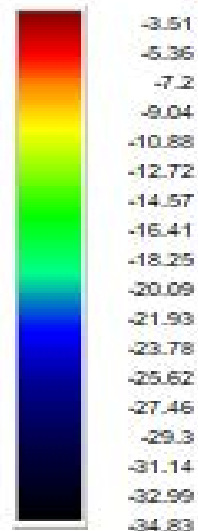
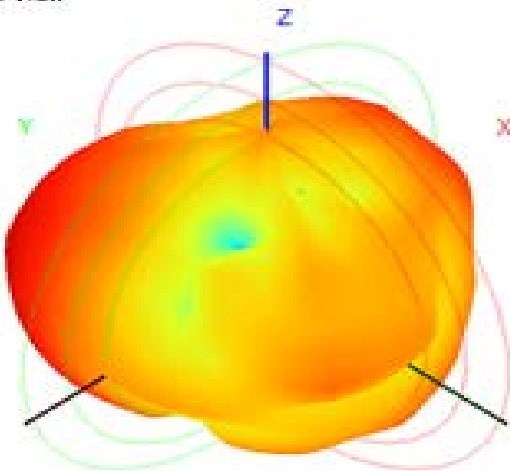
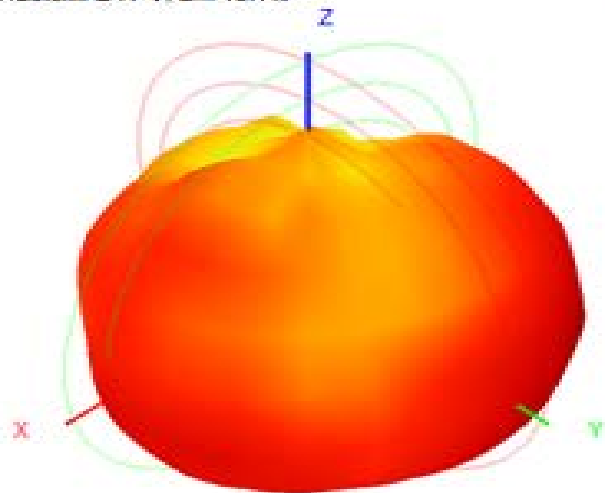
2410.0MHz H+V, Eff: 9.5%

Back View

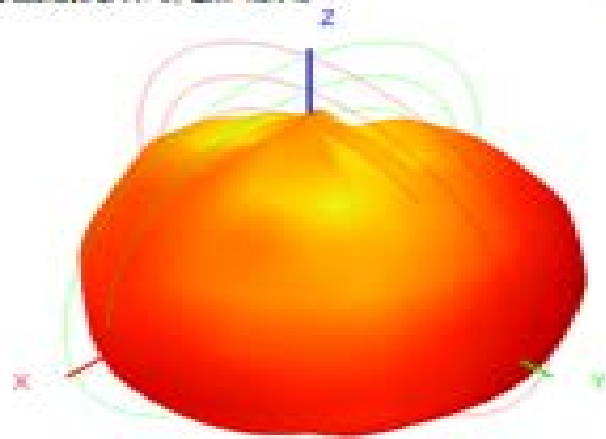


2420.0MHz H+V, Eff: 10.1%

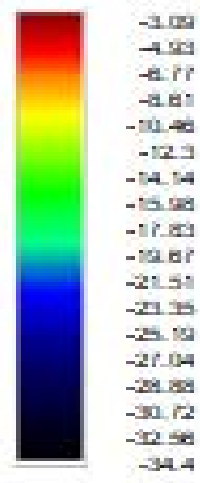
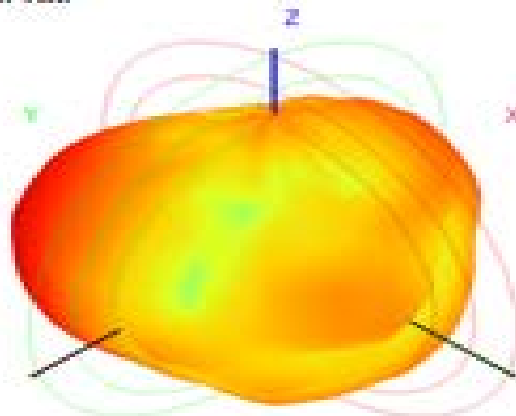
Back View



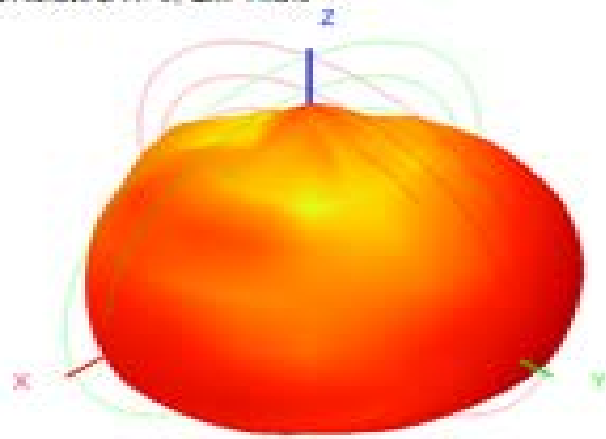
2433.0MHz H+V, Eff. 10.1%



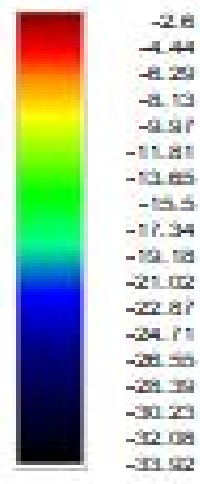
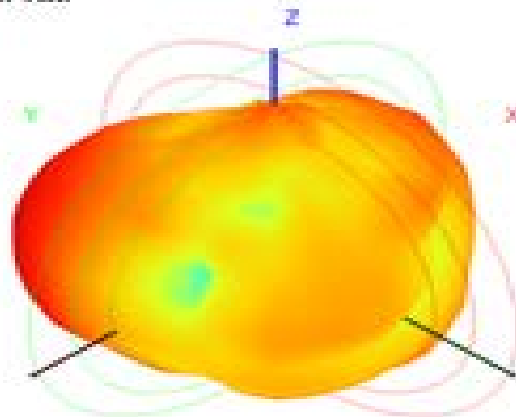
Back View



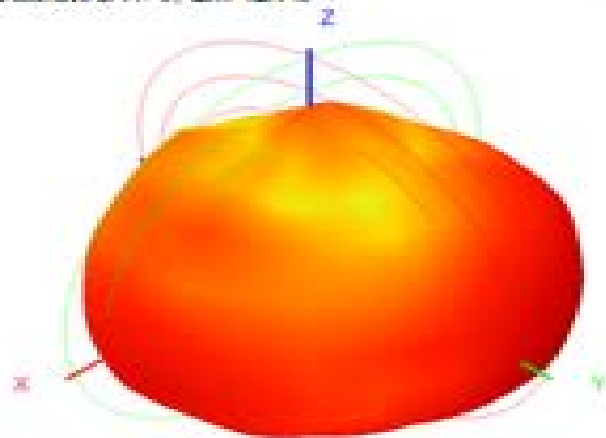
2440.0MHz H+V, Eff. 11.6%



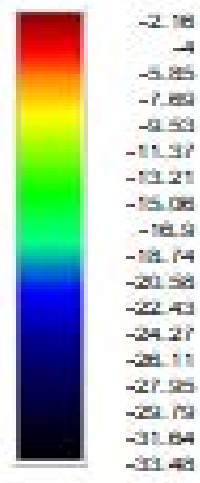
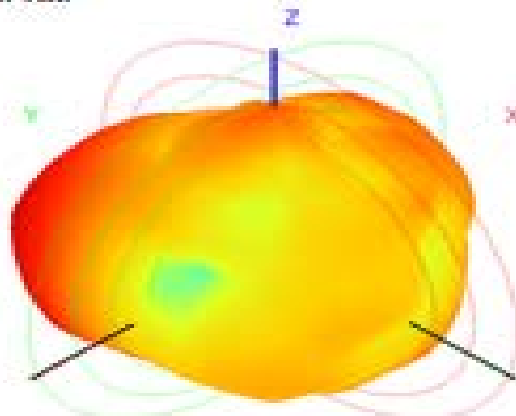
Back View



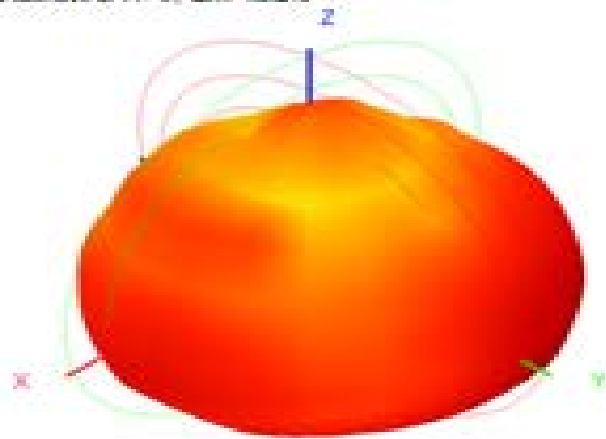
2450.0MHz H+V, Eff. 12.1%



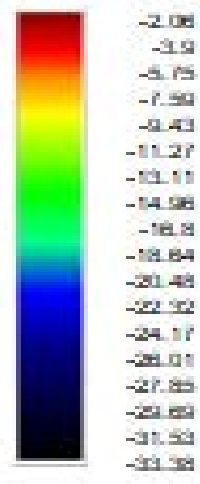
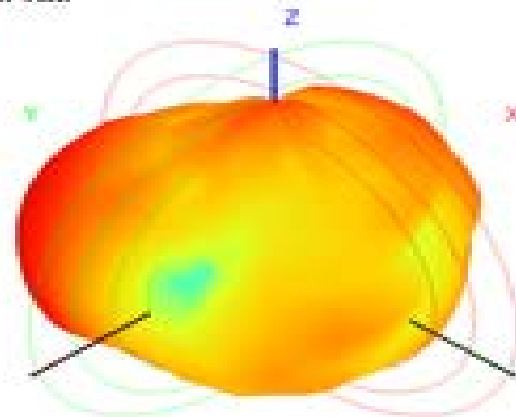
Back View



2460.0MHz H+V, Eff. 13.2%

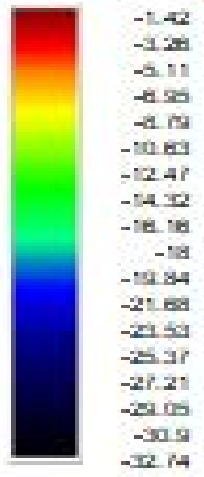
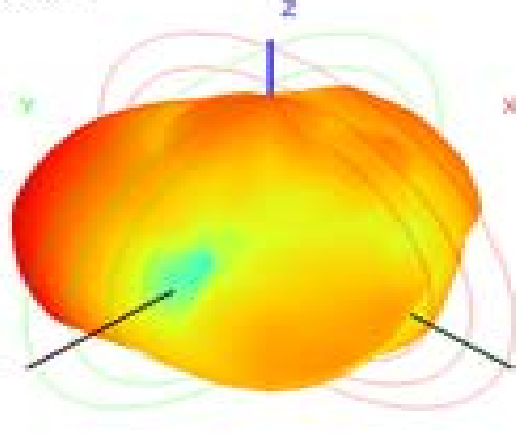
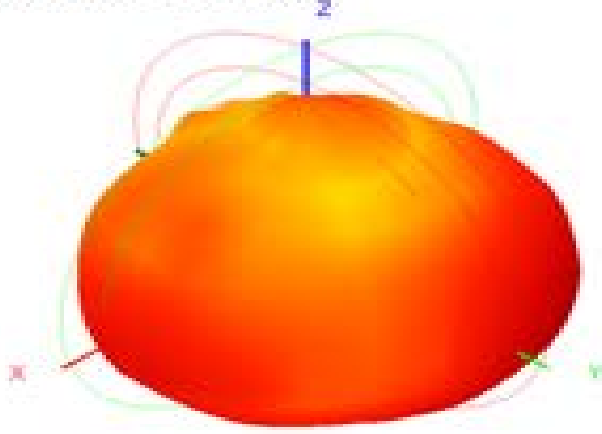


Back View



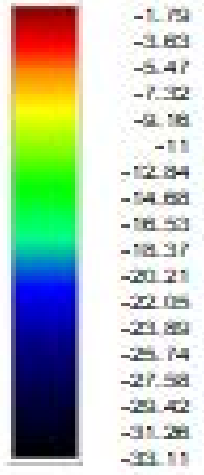
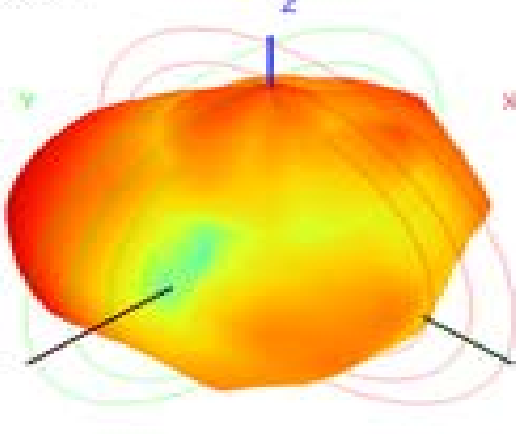
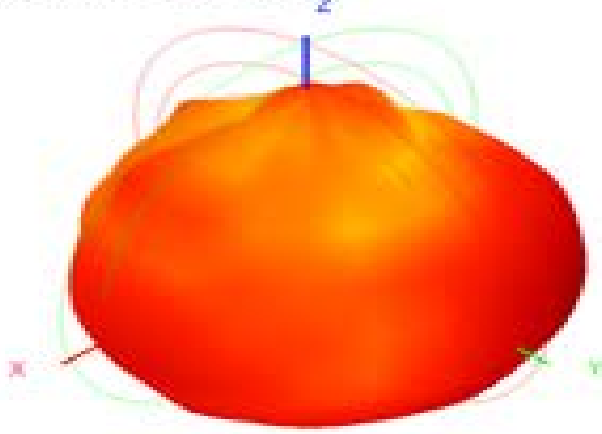
2470.0MHz H+V, Eff. 14.6%

Back View



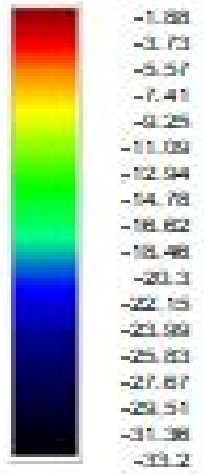
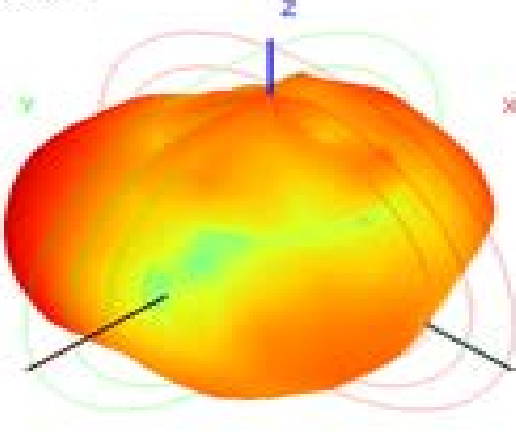
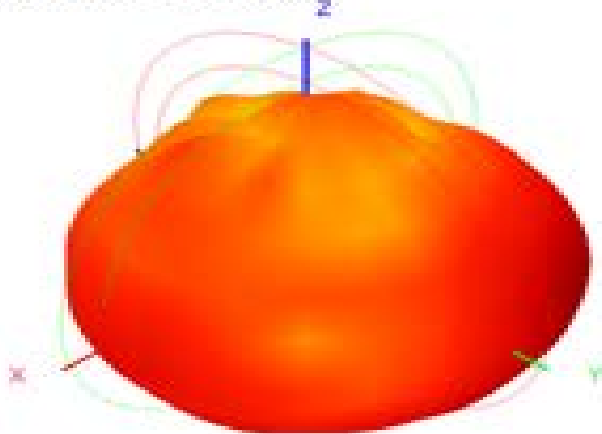
2480.0MHz H+V, Eff. 14.7%

Back View



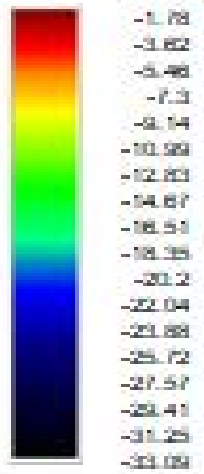
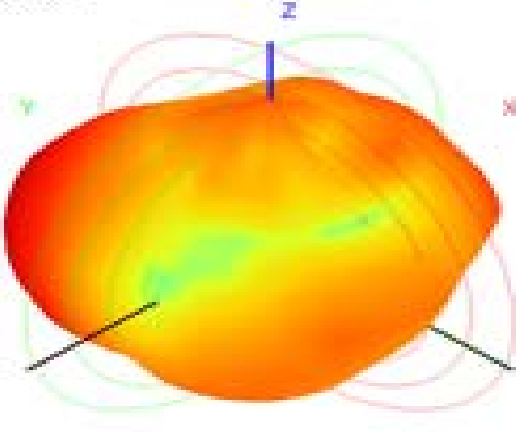
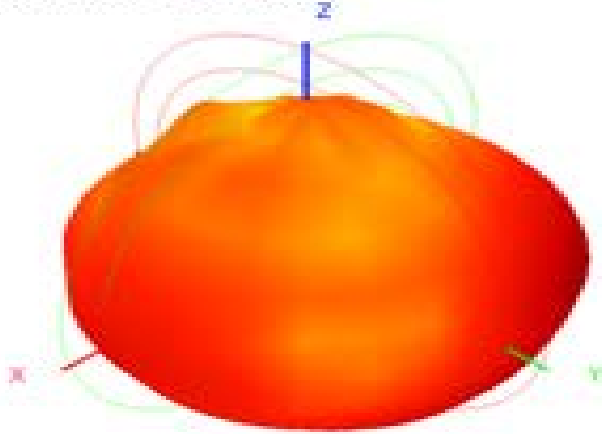
2490.0MHz H+V, Eff. 14.9%

Back View



2500.0MHz H+V, Eff. 14.8%

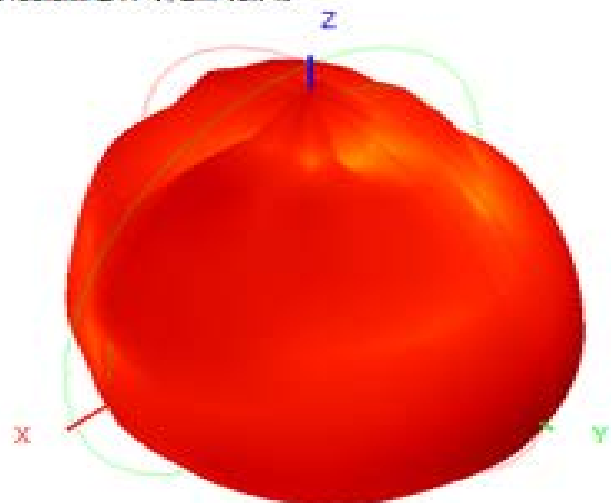
Back View



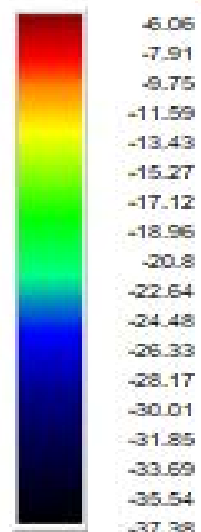
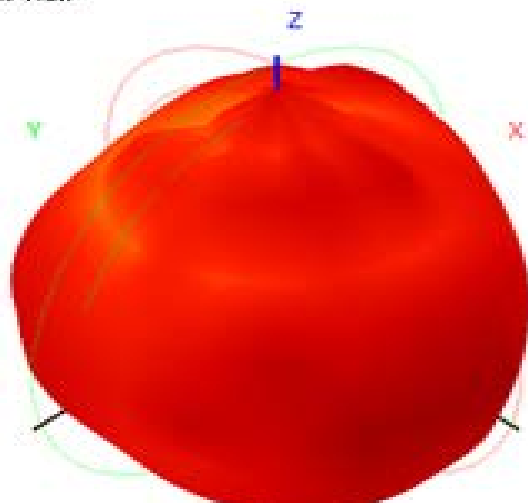
Test data--L

Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	-6.06	-5.41	-5.55	-5.14	-4.99	-5.18	-5.29	-5.44	-5.53	-6.21	-6.24

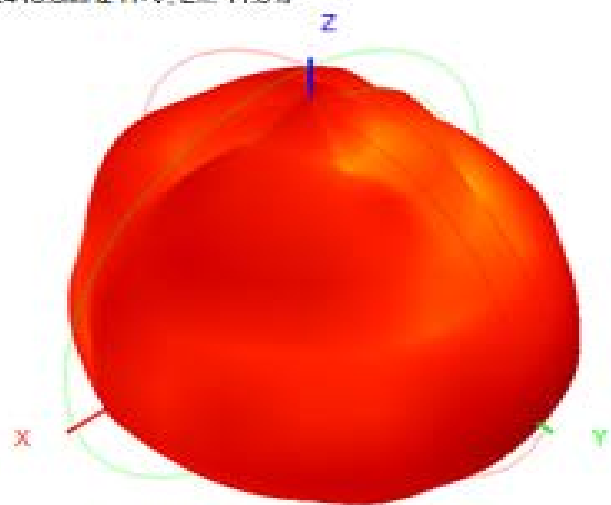
2400.0MHz H+V, Eff: 10.7%



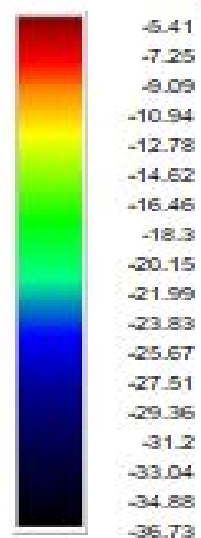
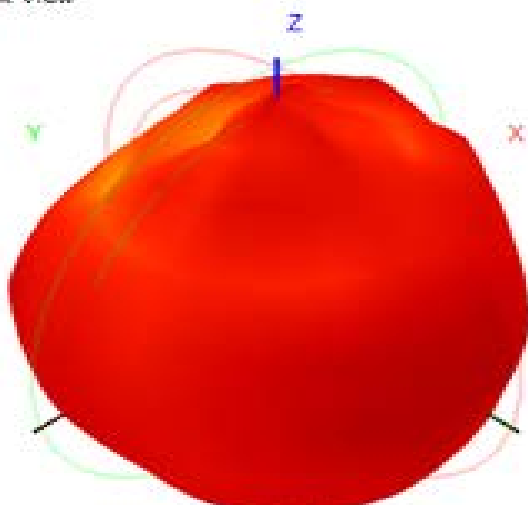
Back View



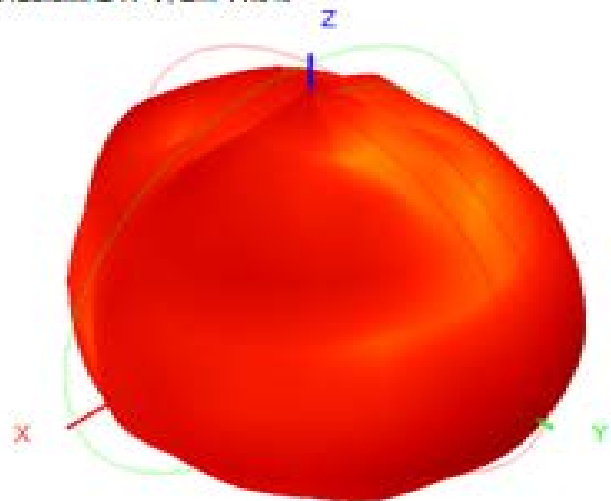
2410.0MHz H+V, Eff: 11.8%



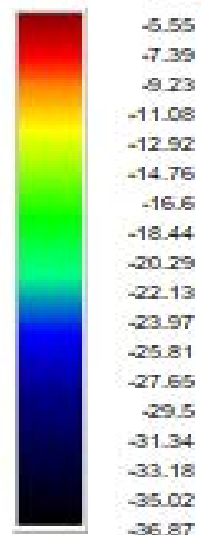
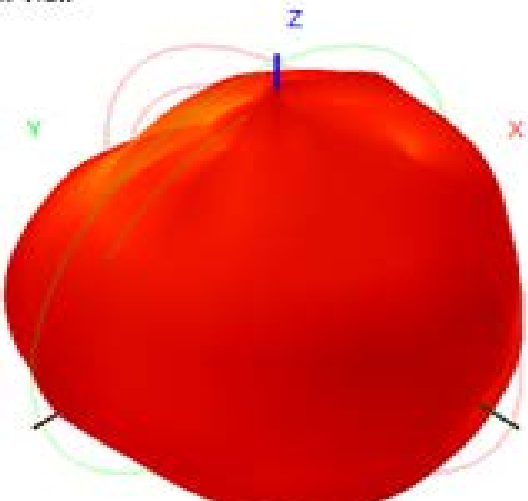
Back View



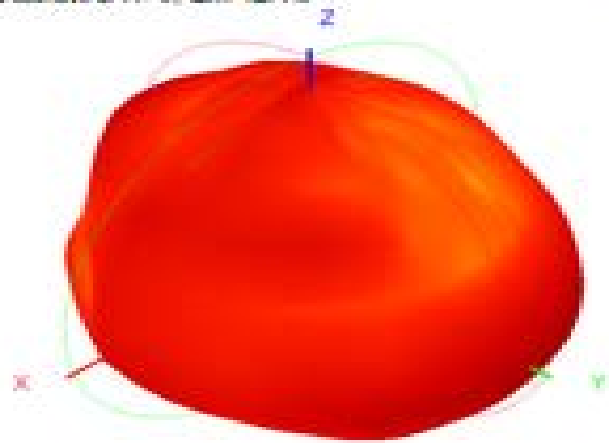
2420.0MHz H+V, Eff: 11.9%



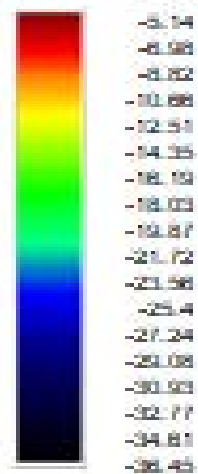
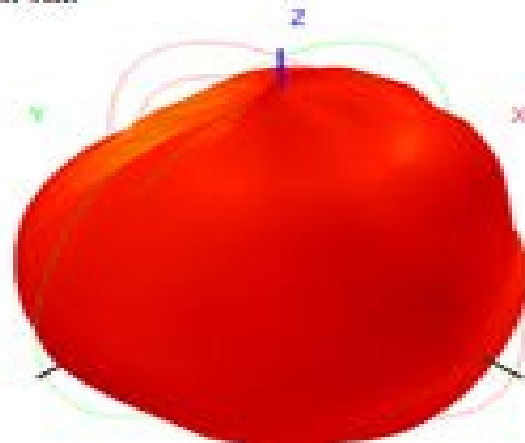
Back View



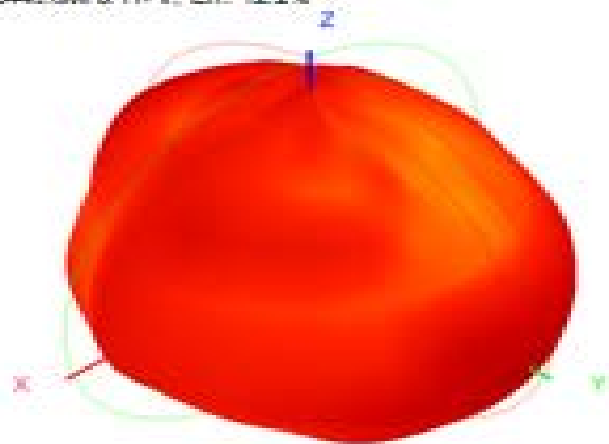
2433.0MHz H+V, Eff. 12.4%



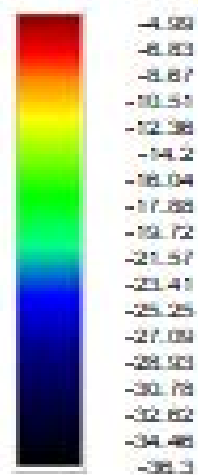
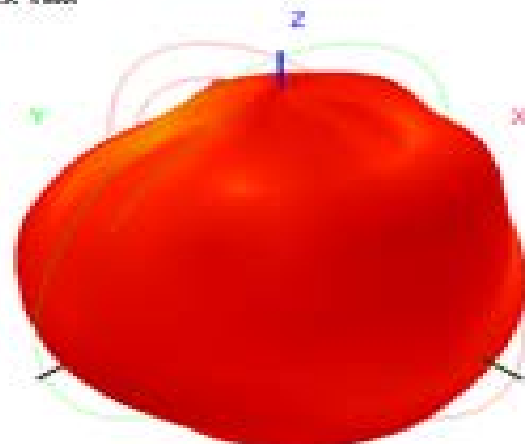
Back View



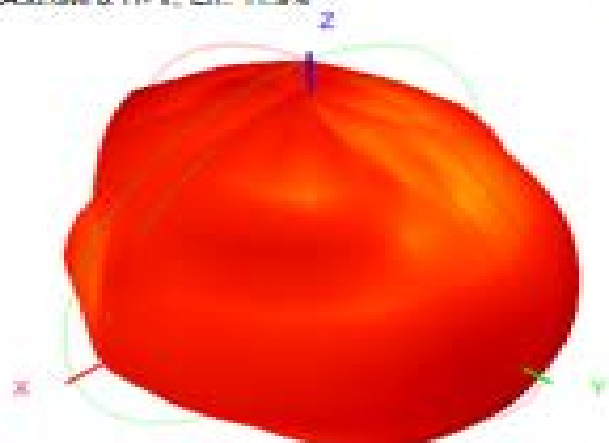
2440.0MHz H+V, Eff. 12.2%



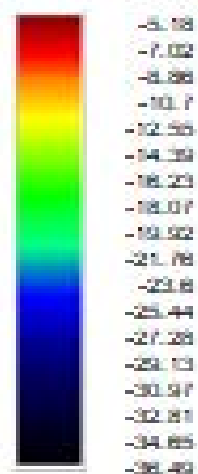
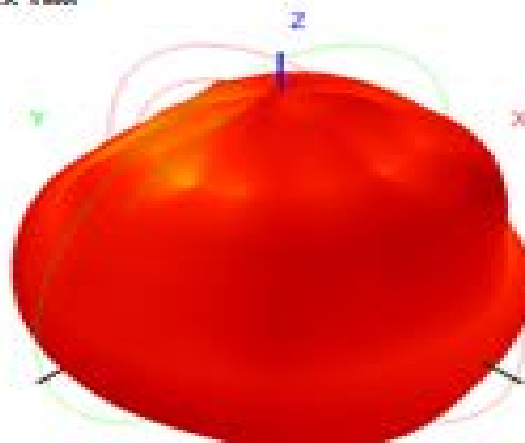
Back View



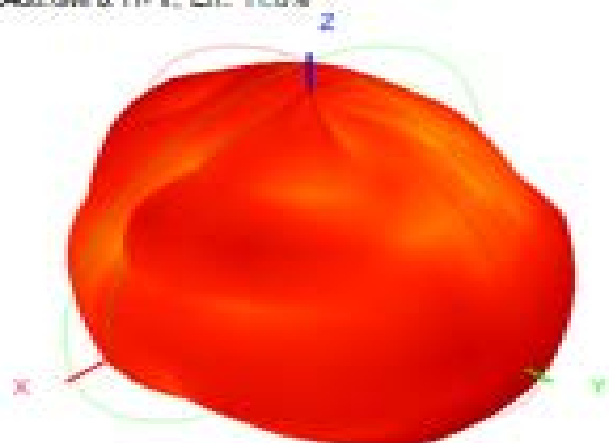
2450.0MHz H+V, Eff. 11.9%



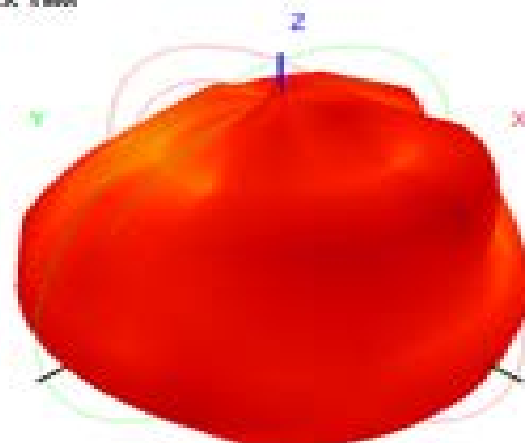
Back View



2460.0MHz H+V, Eff. 11.0%

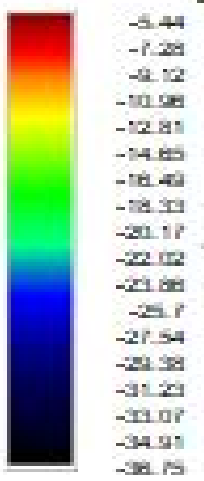
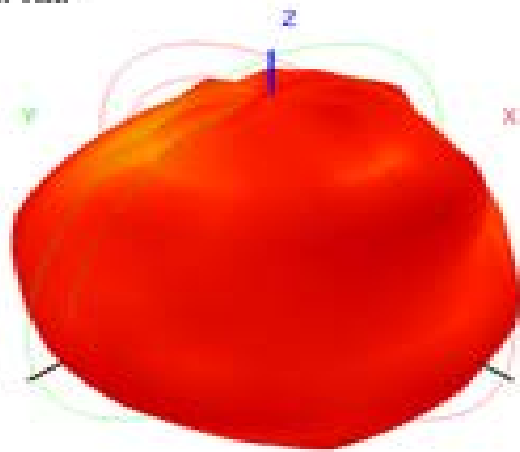
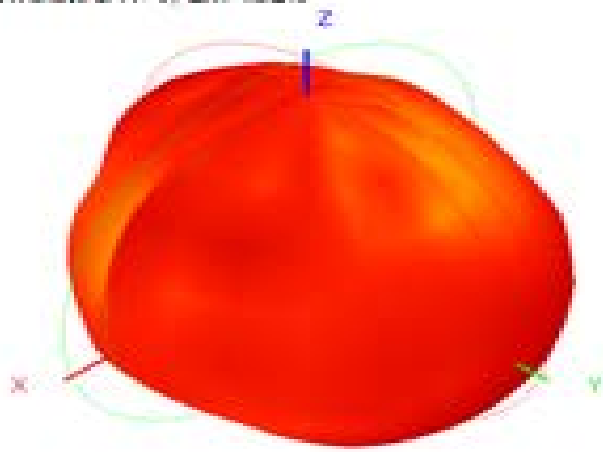


Back View



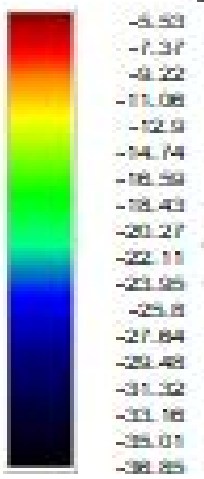
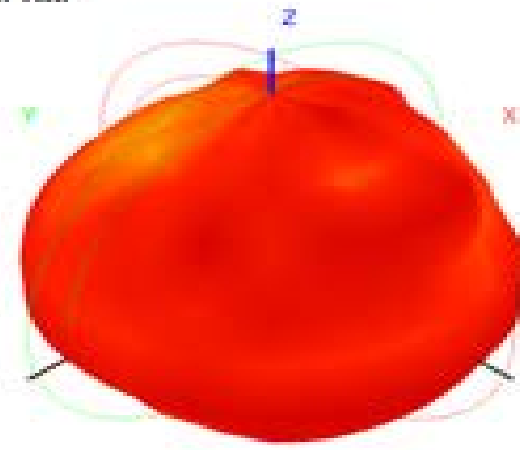
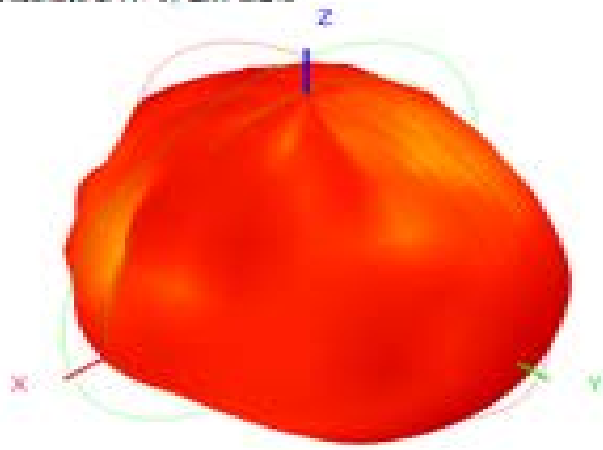
2470.0MHz H+V, Eff. 10.2%

Back View



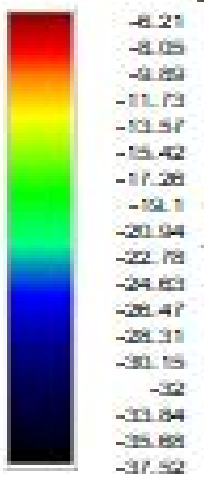
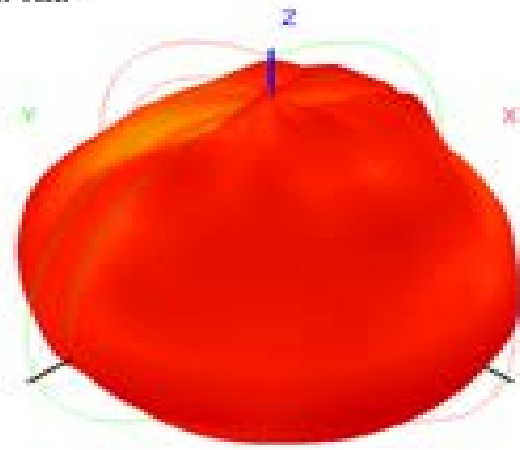
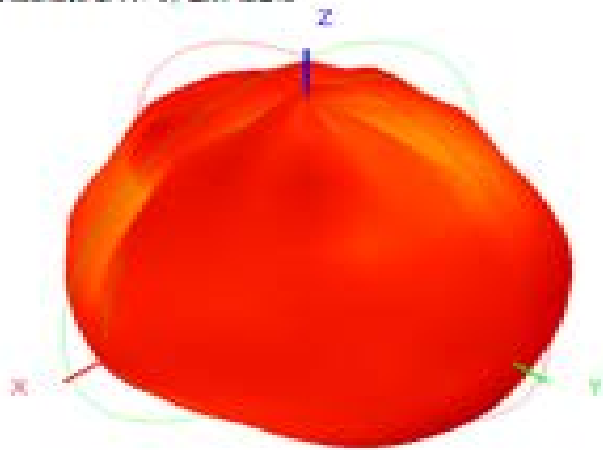
2480.0MHz H+V, Eff. 9.2%

Back View



2490.0MHz H+V, Eff. 8.2%

Back View



2500.0MHz H+V, Eff. 7.3%

Back View

