ANT SPECIFICATION

PRODUCT NAME : Antenna

Wireless Type : Z-22 @ZigBee 2.4GHz

MODEL NAME : N/A

TRADE NAME : N/A

BRAND NAME : N/A

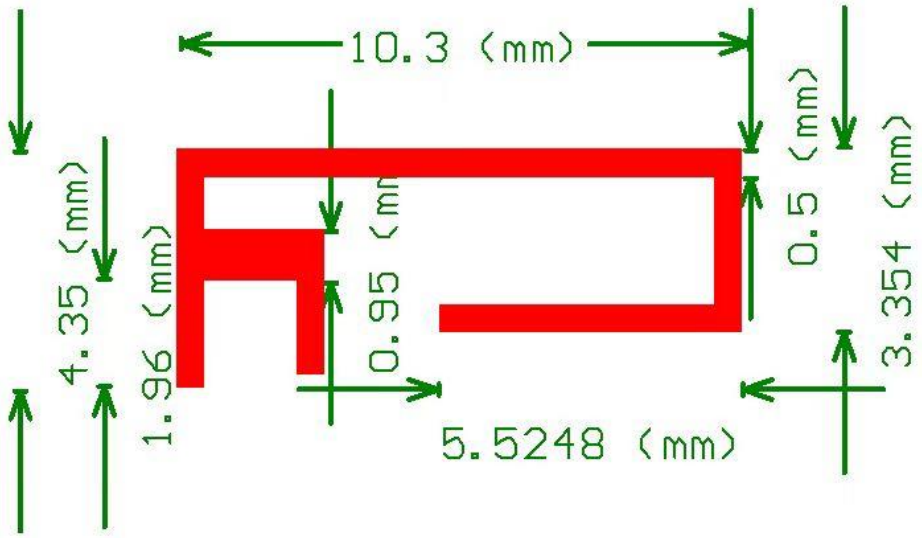
1. Technical Information

Provide by manufacturer.

2. Manufacturer Information

Manufacturer:	SHENZHEN HEIMAN TECHNOLOGY CO.,LTD.
Manufacturer Address:	101, NO.4 DAFU INDUSTRIAL PARK, KUKENG COMMUNITY, GUANLAN STREET, LONGHUA DISTRICT, SHENZHEN, GUANGDONG, CHINA

3. Antenna size diagram



4. 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

Item	Measurement Uncertainty(dB)
Gain	±0.5
VSWR	±0.2
Measurement Uncertainty(95% Confidence Interval) K=2	

5.Gain

Frequency	Efficiency(%)
Frequency Gain(dBi)	Frequency Gain(dBi)
2405 MHz -2.41	2405 MHz -2.41
2410 MHz -2.27	2410 MHz -2.27
2415 MHz -2.35	2415 MHz -2.35
2420 MHz -2.31	2420 MHz -2.31
2425 MHz -2.34	2425 MHz -2.34
2430 MHz -2.41	2430 MHz -2.41
2435 MHz -2.29	2435 MHz -2.29
2440 MHz -2.31	2440 MHz -2.31
2445 MHz -2.24	2445 MHz -2.24
2450 MHz -2.10	2450 MHz -2.10
2455 MHz -2.03	2455 MHz -2.03
2460 MHz -1.92	2460 MHz -1.92
2465 MHz -1.92	2465 MHz -1.92
2470 MHz -1.77	2470 MHz -1.77
2475 MHz -1.61	2475 MHz -1.61

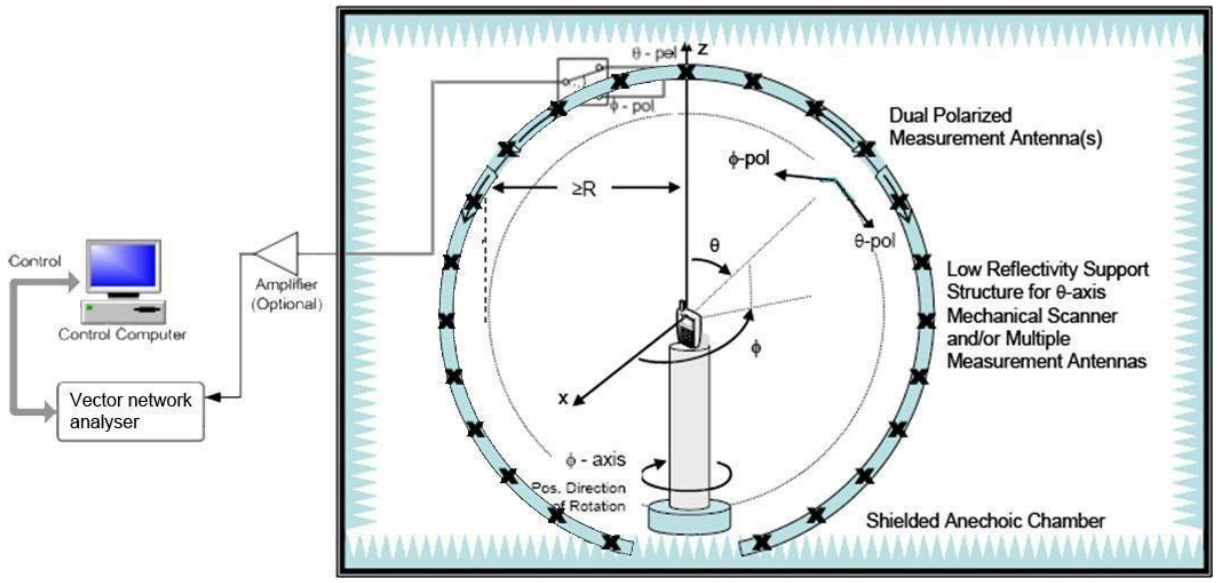
6. Efficiency

Frequency	Efficiency(%)
2405 MHz	31.11
2410 MHz	30.84
2415 MHz	30.28
2420 MHz	30.70
2425 MHz	30.28
2430 MHz	30.60
2435 MHz	31.13
2440 MHz	31.90
2445 MHz	32.57
2450 MHz	33.55
2455 MHz	34.46
2460 MHz	35.16
2465 MHz	35.89
2470 MHz	36.36
2475 MHz	37.04
2480 MHz	37.60

7. VSWR

Frequency	VSWR
2405 MHz	2.30
2410 MHz	2.22
2415 MHz	2.16
2420 MHz	2.11
2425 MHz	2.05
2430 MHz	1.99
2435 MHz	1.94
2440 MHz	1.90
2445 MHz	1.86
2450 MHz	1.81
2455 MHz	1.77
2460 MHz	1.74
2465 MHz	1.71
2470 MHz	1.69
2475 MHz	1.66
2480 MHz	1.64

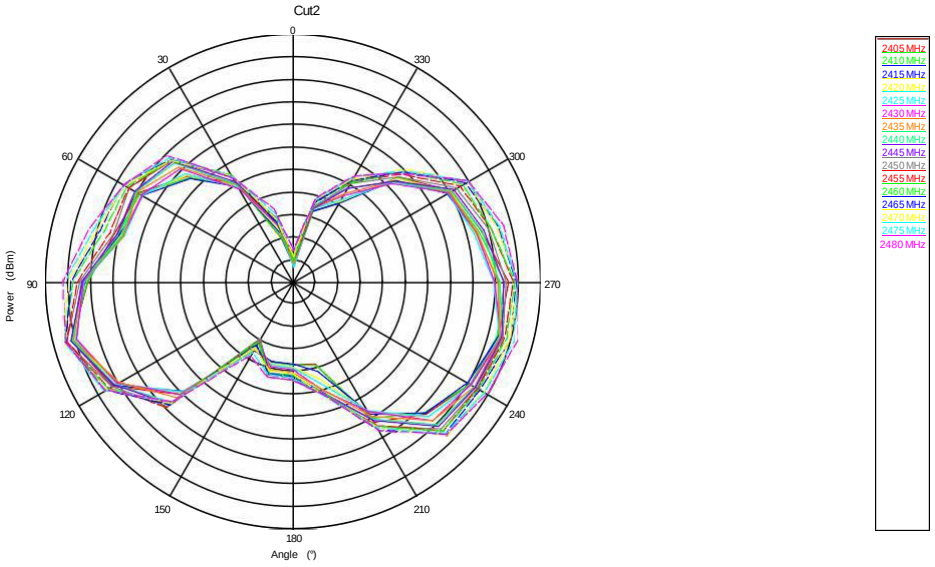
8. Photographs



9. Figures

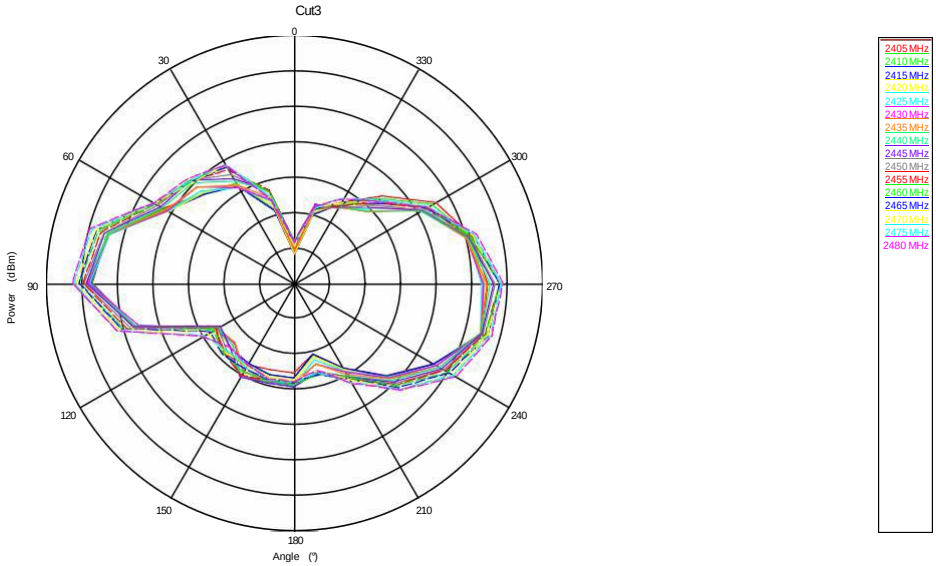
1. 2D Radiation Pattern

Phi=0°



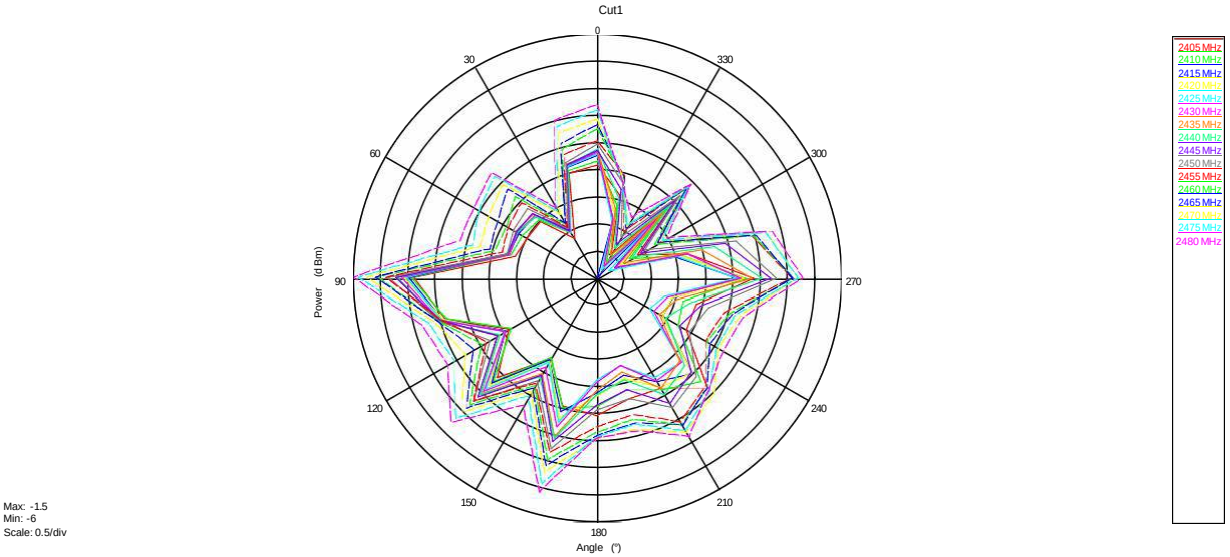
Max: -2
Min: -13
Scale: 1/div

Phi=90°

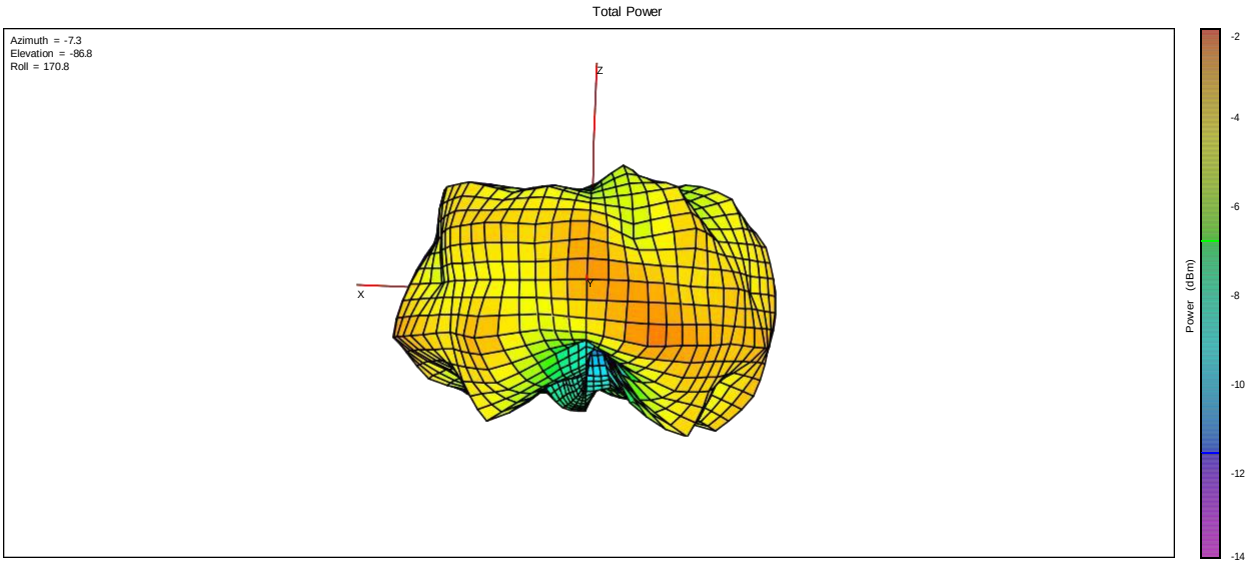


Max: 0
Min: -14
Scale: 2/div

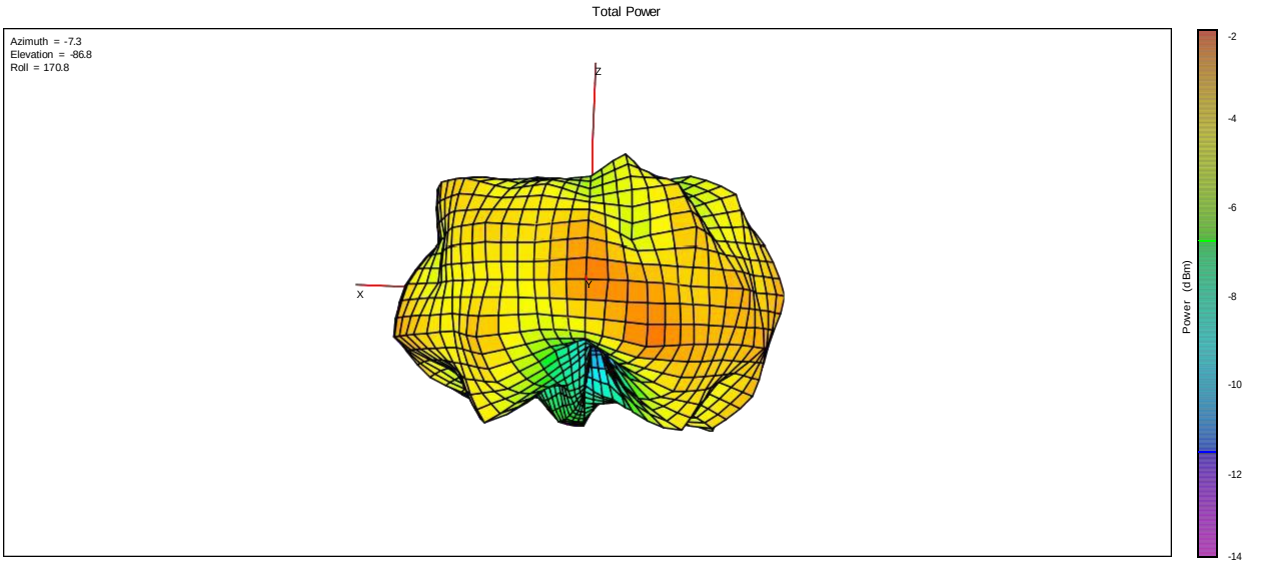
Theta=90°



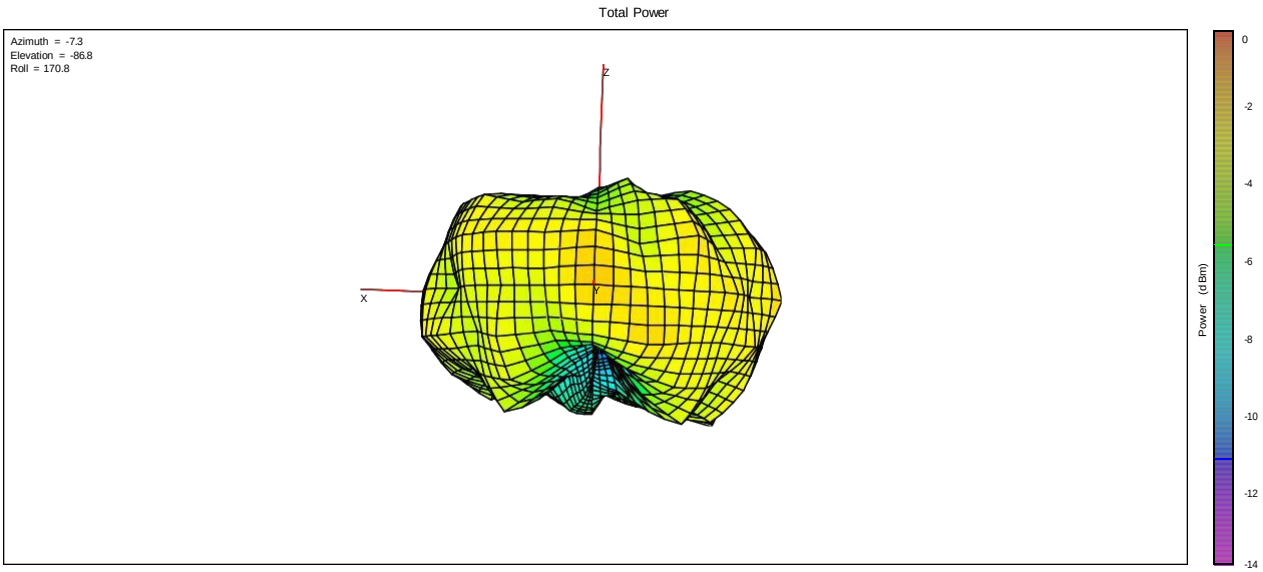
2．3D Radiation Pattern



2405MHz

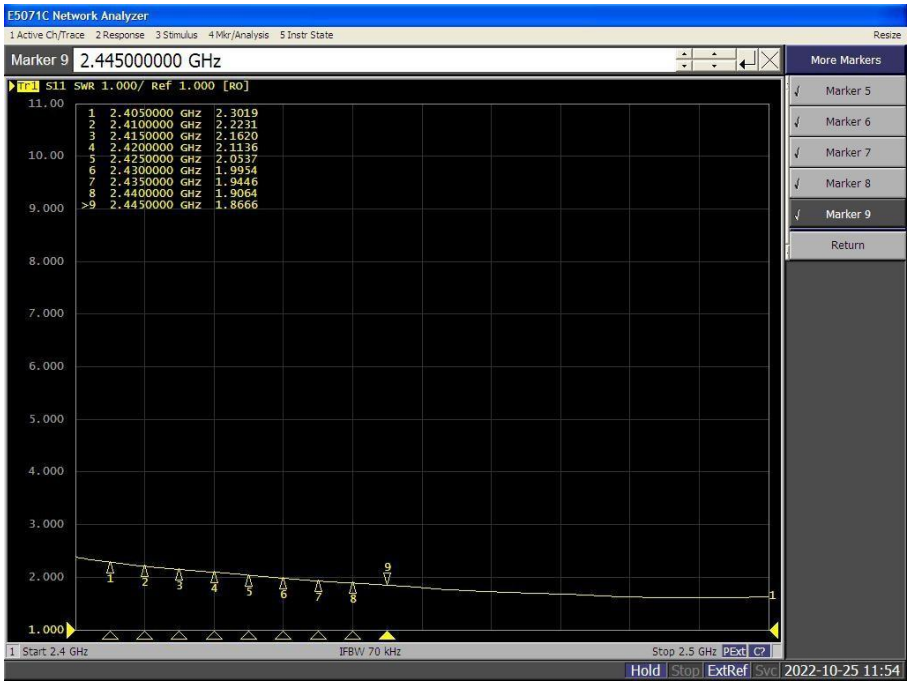


2440MHz



2480MHz

3. VSWR



10. Test environment