

**Auden Communications & Multimedia Techno (Kunshan) Co., Ltd
Shenzhen branch**

Antenna Evaluating Report

Contact Information:

PM:

RD:

ME:

Prepared By: WCCai

Checked By:

Date of Report: May 9,2023



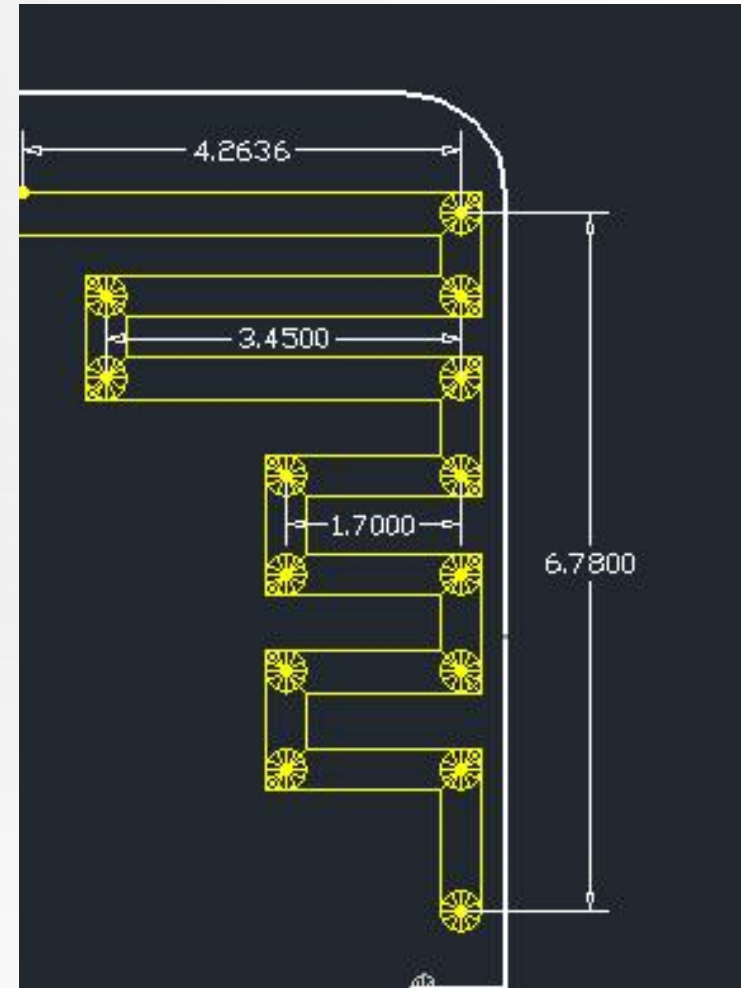
Report History

Date	Rev	Description
2023-05-9	01	Test passive efficiency and gain

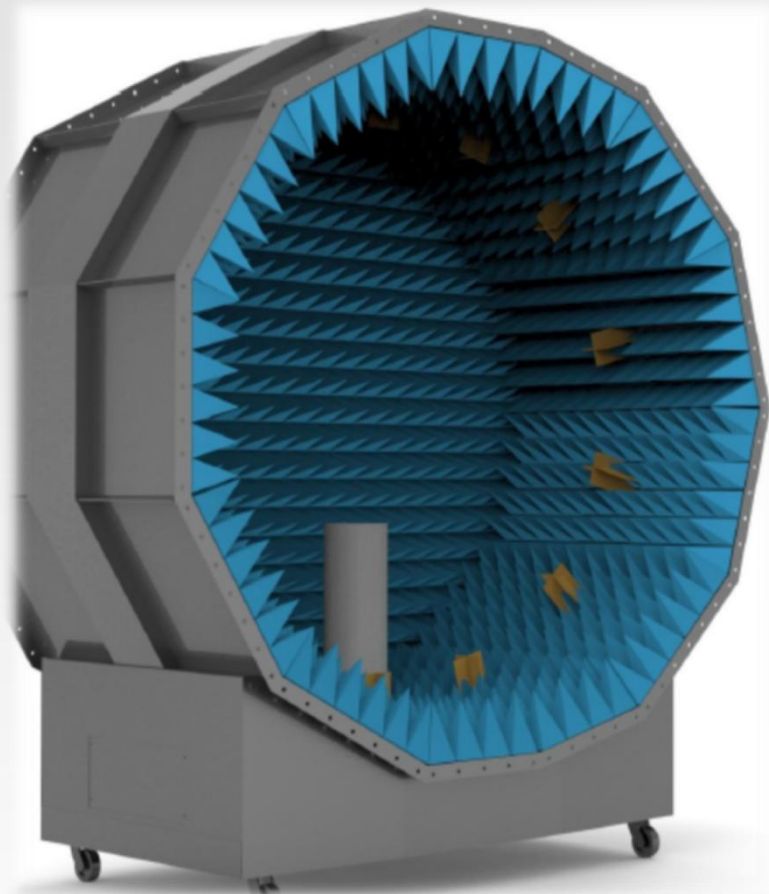


Manufacturer & DIM

- Manufacturer:
Shenzhen Xinzhide Technology Co., Ltd.
- Model: HW709 ANT
- Antenna Gain: 0.99dBi
- Antenna Type/DIM: PCB antenna



Equipment



- Chamber : GTS Rayzone1800
- Network Analyzer : Agilent E5071C
- 2G/3G Comprehensive Tester : Agilent 8960
- LTEComprehensive Tester : Anritsu MT8820
- TDComprehensive Tester : StarPoint SP6010
- WIFIComprehensive Tester : Anritsu MT8860
- GPS signal generator : Agilent E4438C



Antenna operating frequency

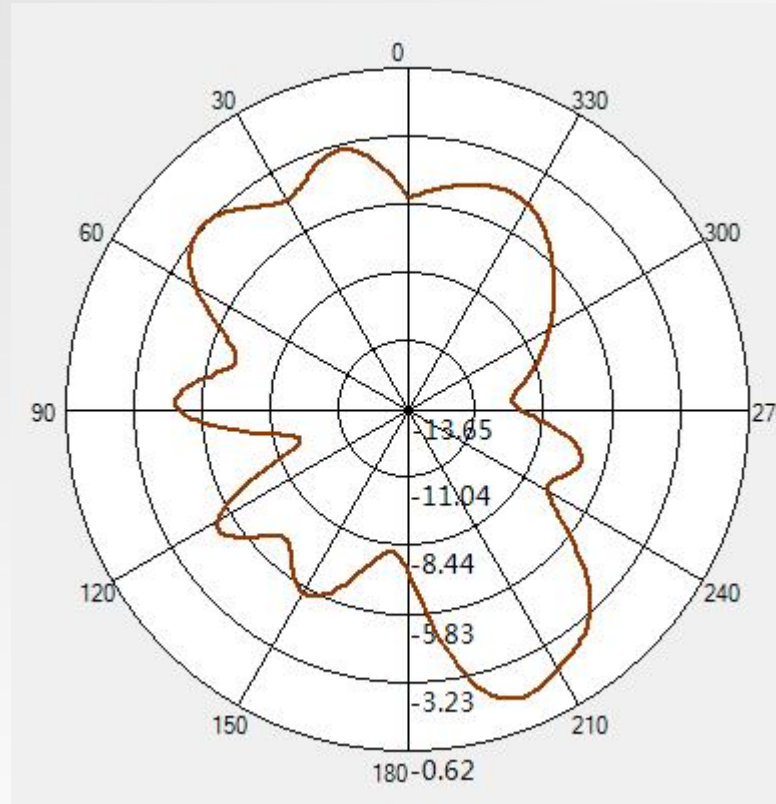
RF mode	Band	RF mode	Band
GSM	-	WIFI / BT	2.4G(2400-2500MHz)
WCDMA	-	GPS	-
TD-SCDMA	-	FM	-
CDMA	-	Others	-
FDD LTE			
TDD LTE			

Antenna Testing

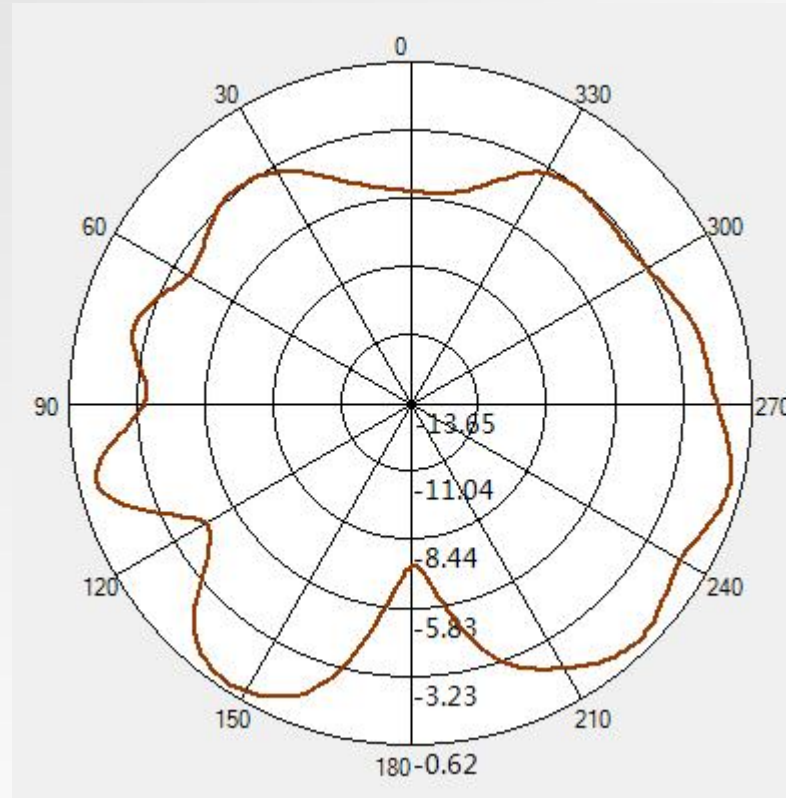
Frequency(MHz)	Gain	Eff.
2400	-1.03	33.5
2410	-0.51	36.1
2420	-0.33	36.1
2430	0.07	38.7
2440	0.15	40.7
2450	0.38	42.6
2460	0.78	47.5
2470	0.99	49.5
2480	0.82	46.7
2490	0.94	48.3
2500	0.99	48.6

Antenna Testing

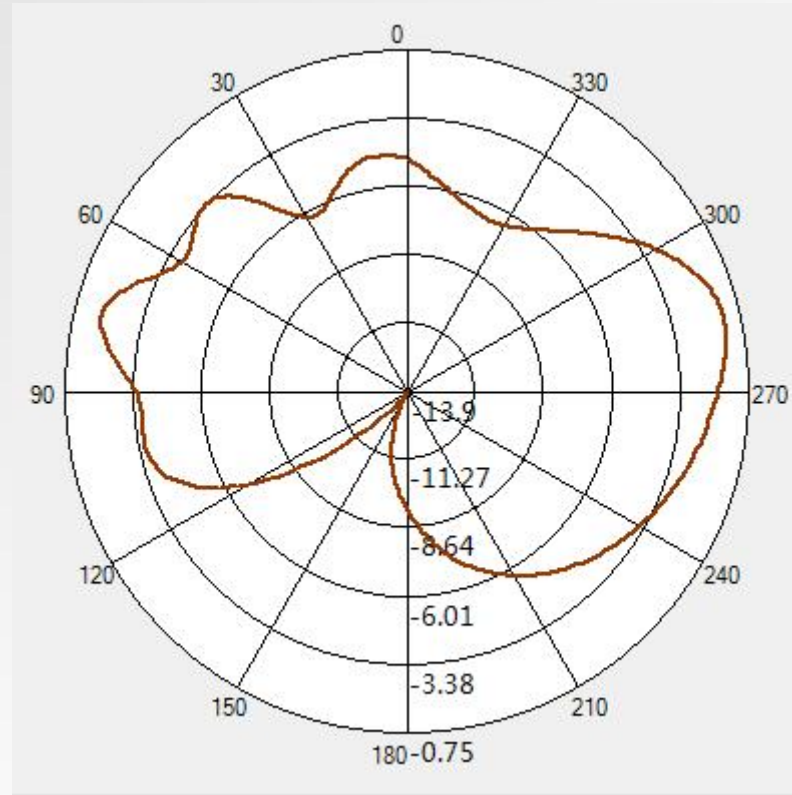
Radiation pattern (E1)



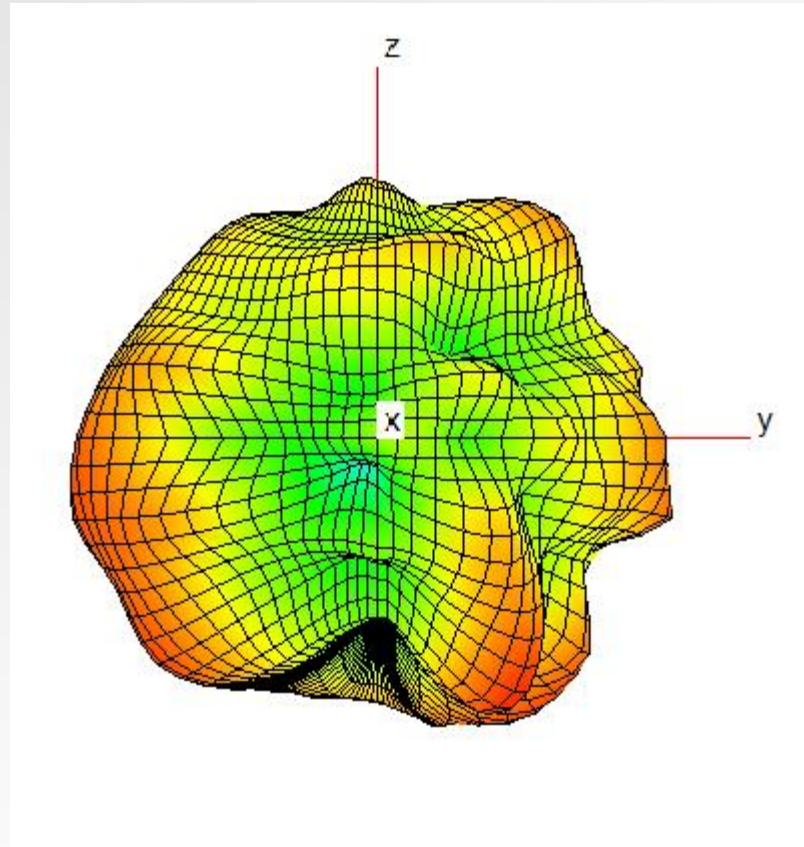
Radiation pattern (E2)



Radiation pattern (H)



3D Radiation pattern



Thank You



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