Antenna Testing Report

Project Name： J16-5

Antenna Manufacturer: Sunnyway Technology(CHINA)

Address：The 6th floor, Building 5, Nantaiyun Innovation Valley Center,Guangming District, Shenzhen City

Report version：May. 31th, 2024 A0

Record

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A0	2024.05.31	Preliminary Commissioning Report
A1		
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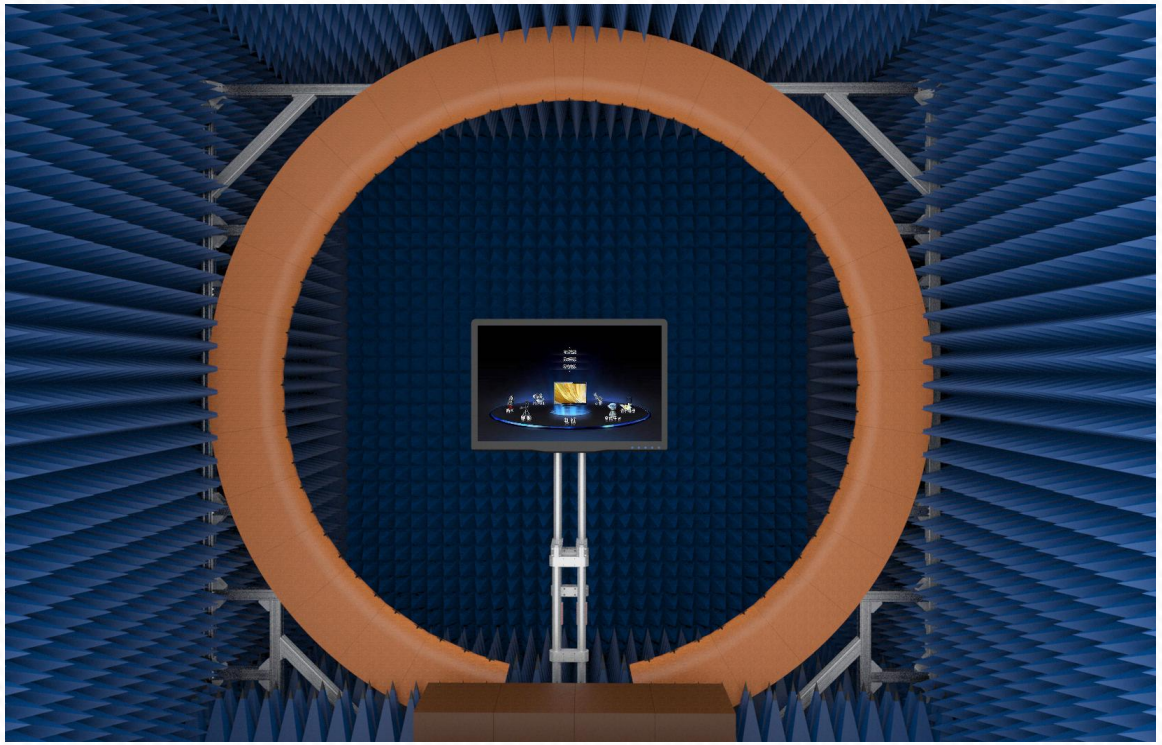
Project Overview

Prototype status	Debugging machine
Device type	POS
Number of antennas	BT antenna
Frequency band	
	BT/2.4GHZ
Structural style	FPC+cable
Environment adjustment	No change
Matching modification	No change

Equipment List



The industry's top 64 sensors OTA chamber

Frequency range: 400MHz-11GHz

Device Llimitation: 2M

Load-bearing limitation:100KG

Equipments Items	Total Quantity	Quantity for Shanghai R&D	Quantity for Shenzhen R&D	Quantity for ChongQing R&D
OTA chamber	10	4	5	1
5G Tester（SP9500-CTS）	3	1	1	1
R&S Tester（high configuration CMW500）	6	3	2	1
Japan Anritsu Tester（Dual Channel 8820）	4	2	2	--
NB-IoT Tester (SP8315)	3	1	1	1
Agilent Tester（8960）	9	4	4	--
Agilent Network Analyzer（E5062A）	7	3	3	1
Agilent Network Analyzer（E5071C 8.5GHZ)	11	5	5	1
Agilent Network Analyzer（E5071B 8.5GHZ)	7	3	3	1
R&S Network Analyzer（ZND）	9	4	4	1
R&S Network Analyzer（ZVB）	3	1	1	1
OTA head hand / ear hand / arm hand	5	2	2	1
GPS/WIFI active test equipment	5	2	2	1

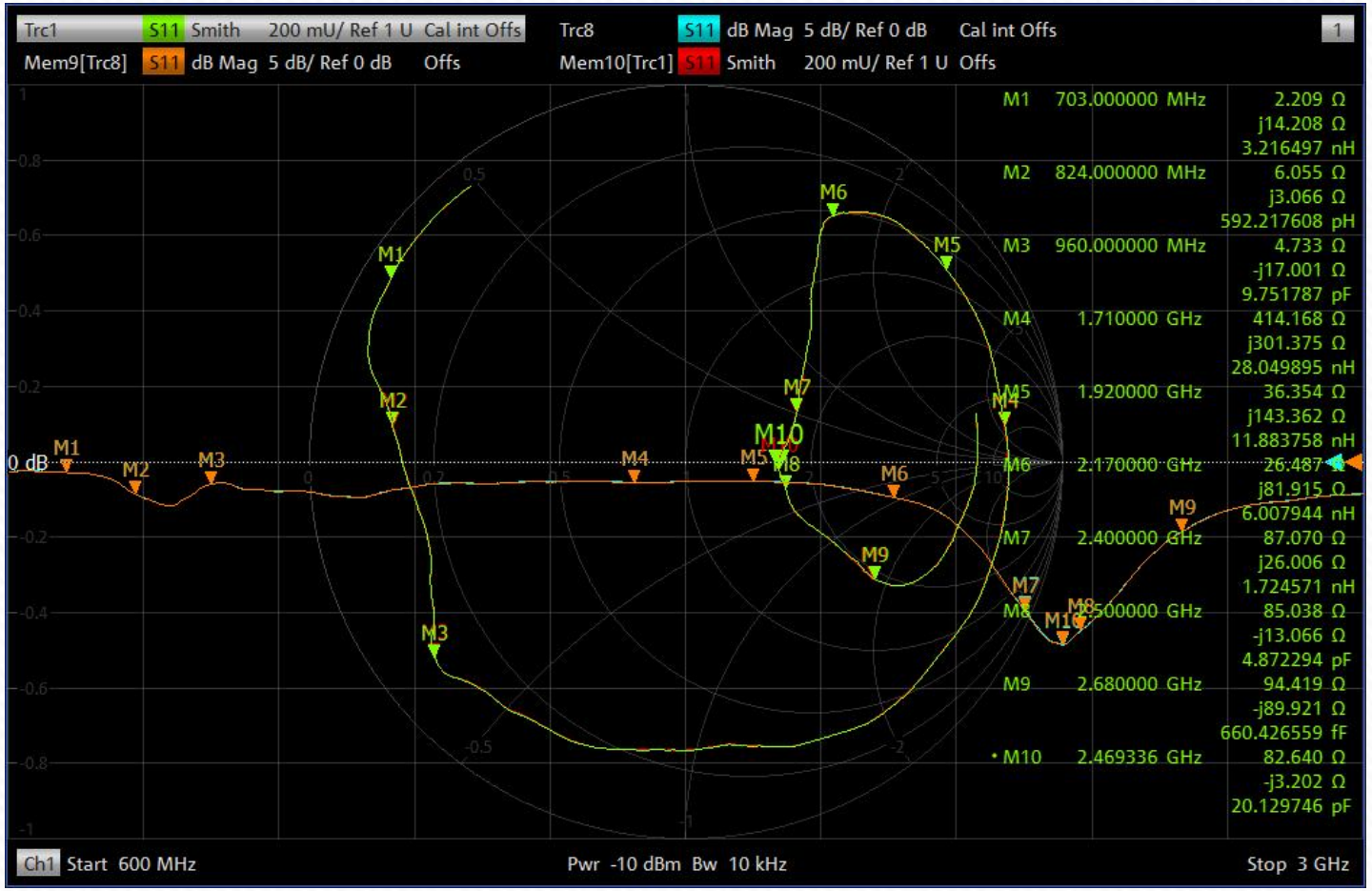
Antenna pattern

Main antenna data

Frequency/Mhz	MaxGain/dBi	Efficiency / %
2400-2500	1.64	63.12

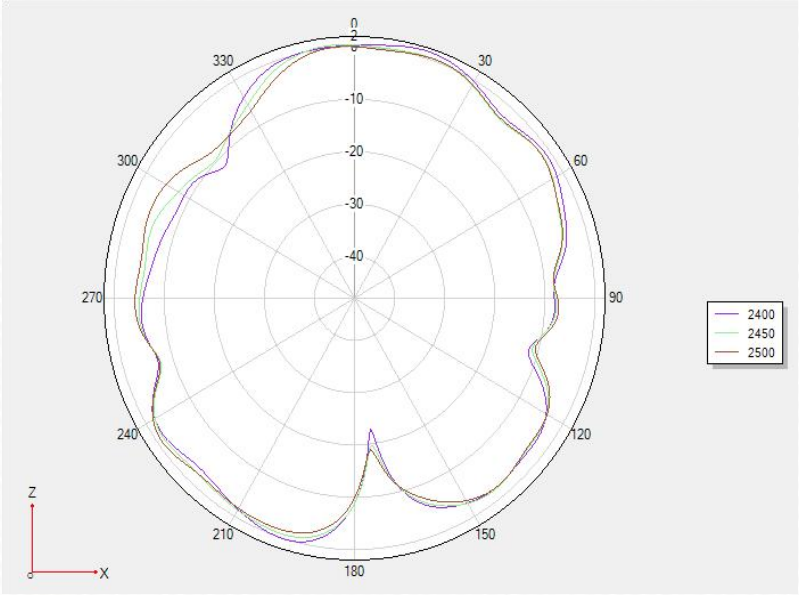
Main antenna data

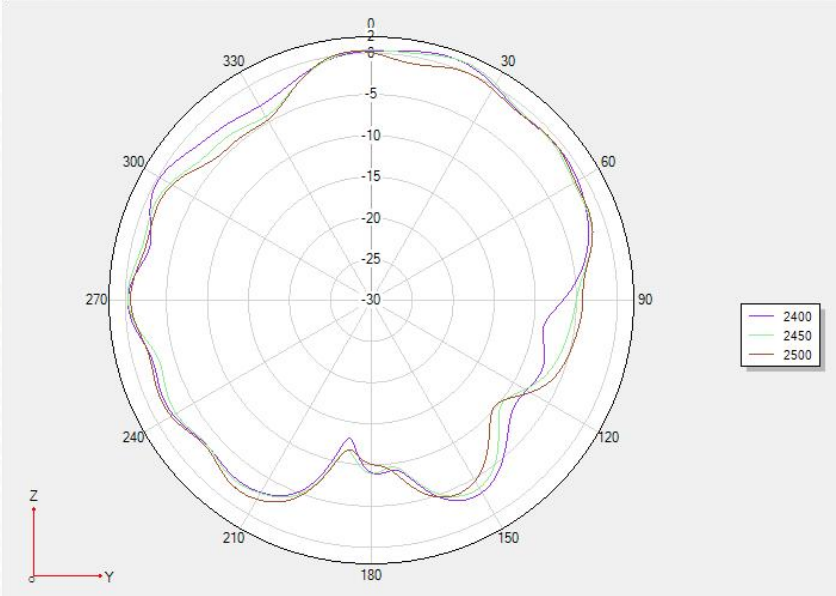
S11

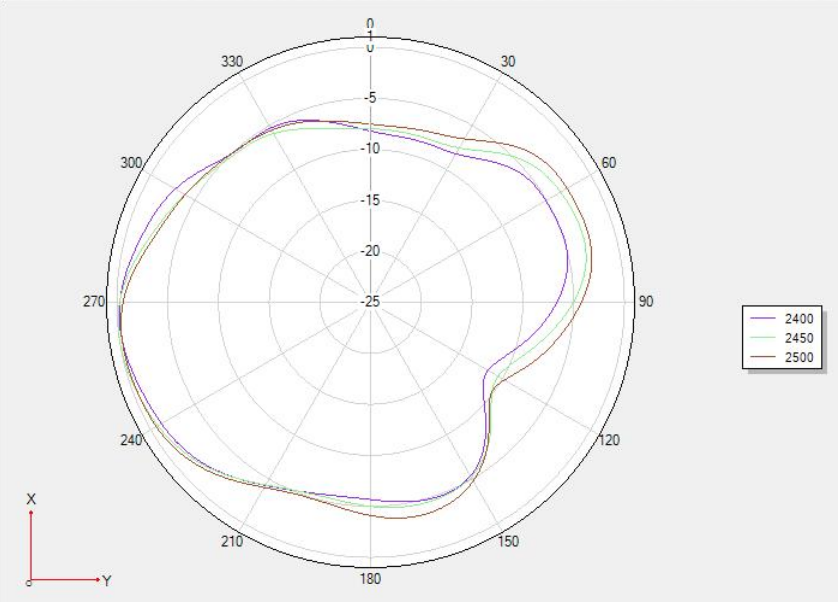


Three-in-one antenna directional pattern

2D:

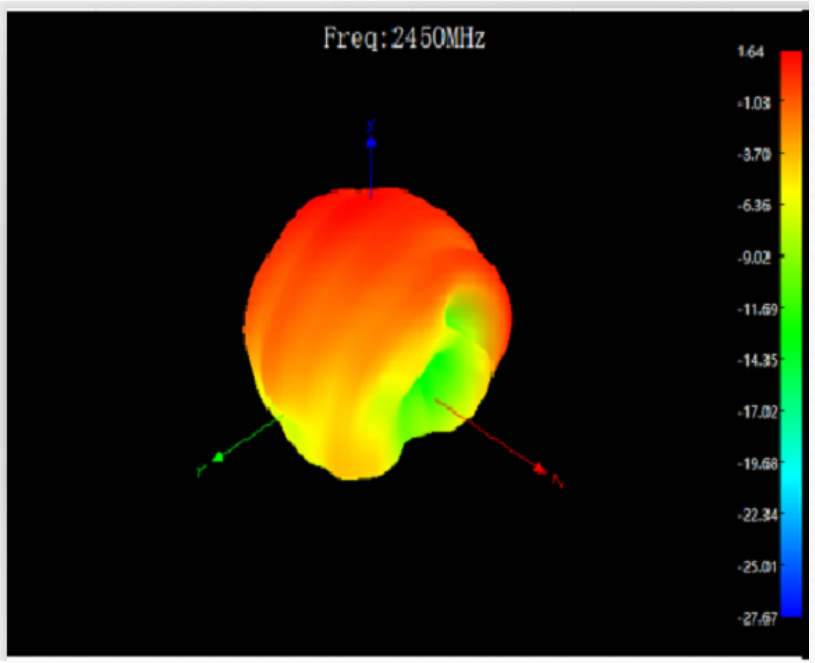


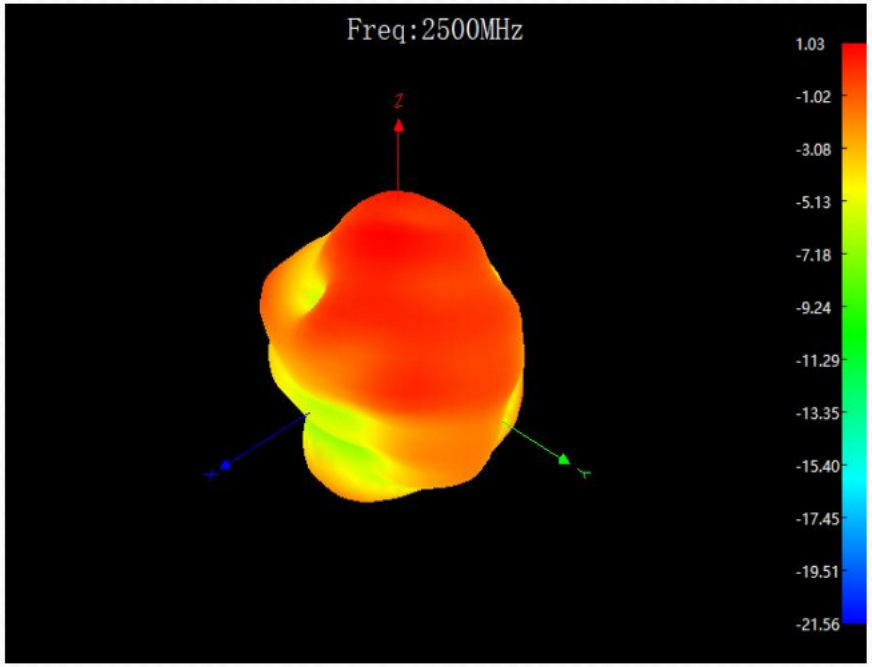




Three-in-one antenna directional pattern

3D:





Summary

1: For AD project, the antenna has good performance, and the parameters such as efficiency, gain and active test can achieve the use requirements

2: In terms of structure, the antenna is installed on the inside of the casing, which can well meet the requirements of production and assembly

Thank You

Shanghai R&D Center: 1F, Building 4, No.99, Lane 215, Gaoguang Road, Qingpu District, Shanghai, 201799, PRC

Shenzhen R&D Center: Room 405, Jinke Building, No.8, Qiongyu Road, Nanshan District, Shenzhen, 518057, PRC

ChongQing R&D Center: 1F, ARM Ecological Industrial Park, 19 East Datugu Road, Xiantao, Yubei District, Chongqing, 401120, PRC

Huizhou Factory: 4-5F, No.1, Central Village Road, Longhu Industrial Zone, Shuikou Town, Huicheng District, Huizhou, 516255, PRC

TEL：021-60835368 E-mail：sales@sunnyway-iot.com

www.sunnyway-iot.com