

Antenna Testing Report

Customer: apical Technology

Project Name: KX262

Report Number: SZ241861B75

Manufacturer: Sunnyway Technology(CHINA)

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Version	Report date	Remark
A0	2024.5.31	First release debug active data
A1		
A2		
A3		
A4		
A5		
A6		
A7		
A8		
A9		

1. Record... .. 2

2. Project Overview 4

3. Equipment List... .. 5

4. Project pictures and Passive fixturs... .. 6

5. Version Information 7

6. Matching Circuit 7

7. Passive parameters 1 2

8. Passive efficiency 1 6

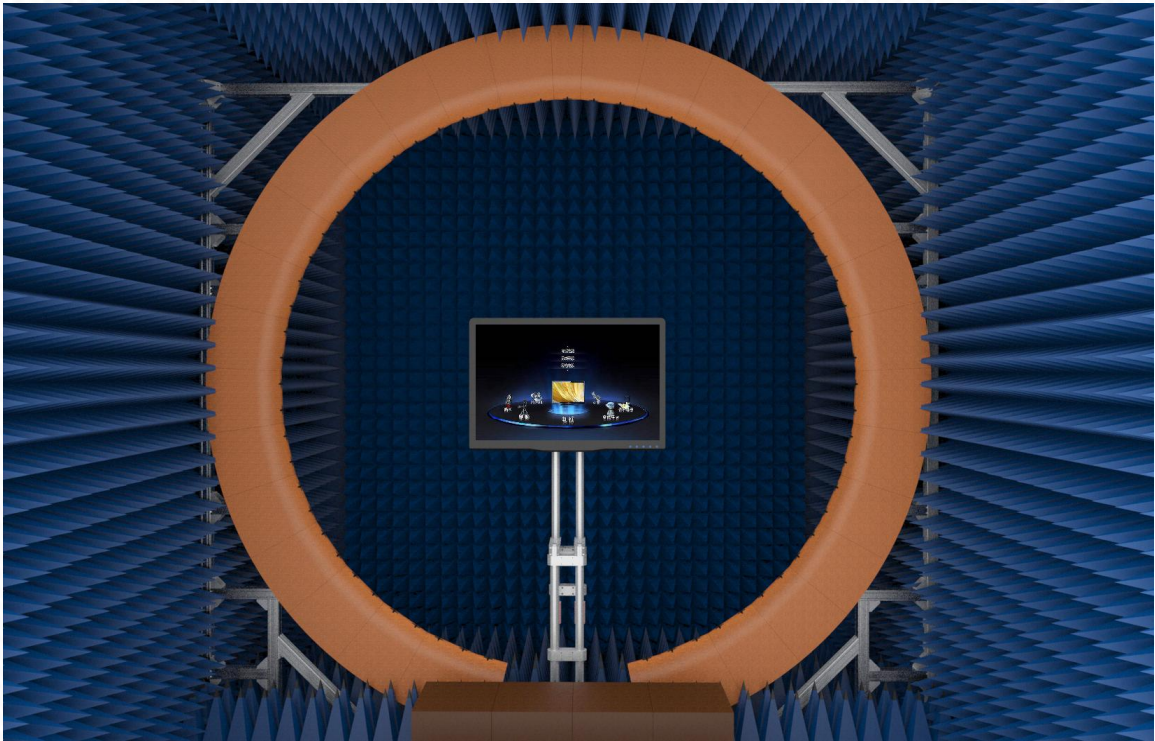
9. Active data 1 9

10.Environment Specification... .. 2 3

11. Directional pattern 2 4

12. Summary 2 8

Prototype status	Debugging machine
Device type	car recorder
Number of antennas	WIFI antenna
Frequency band	802.11b/g/n
Structural style	FPC
Environment adjustment	No change
Matching modification	No change



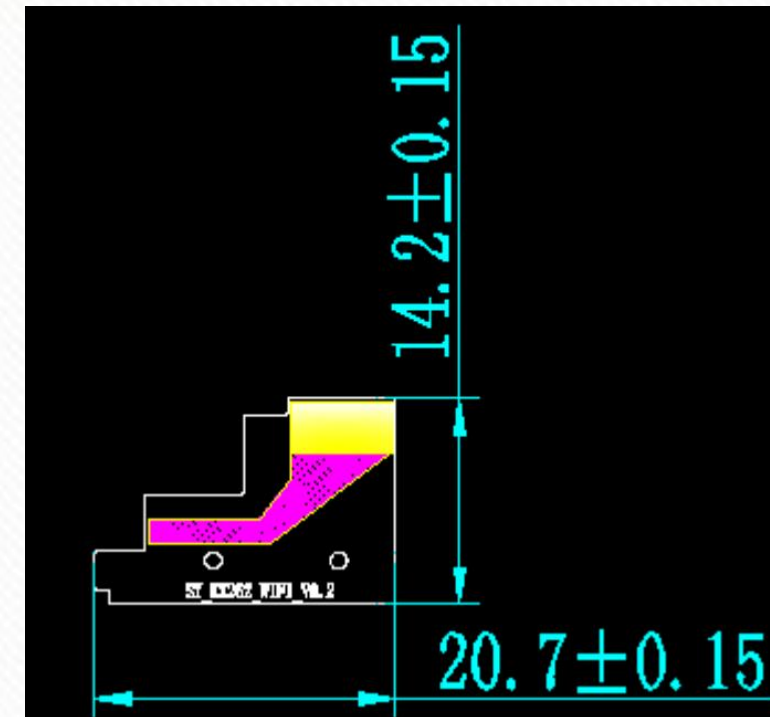
The industry's top 64 sensors OTA chamber

Frequency range: 400MHz-11GHz

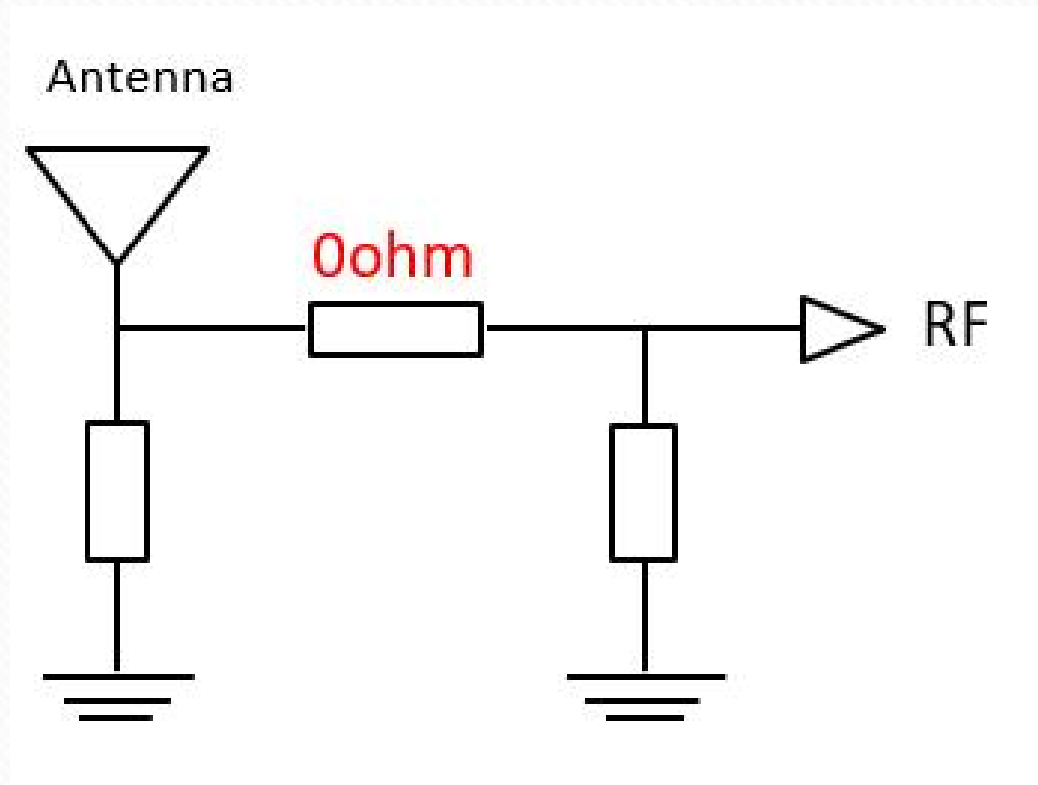
Device Llimitation: 2M

Load-bearing limitation:100KG

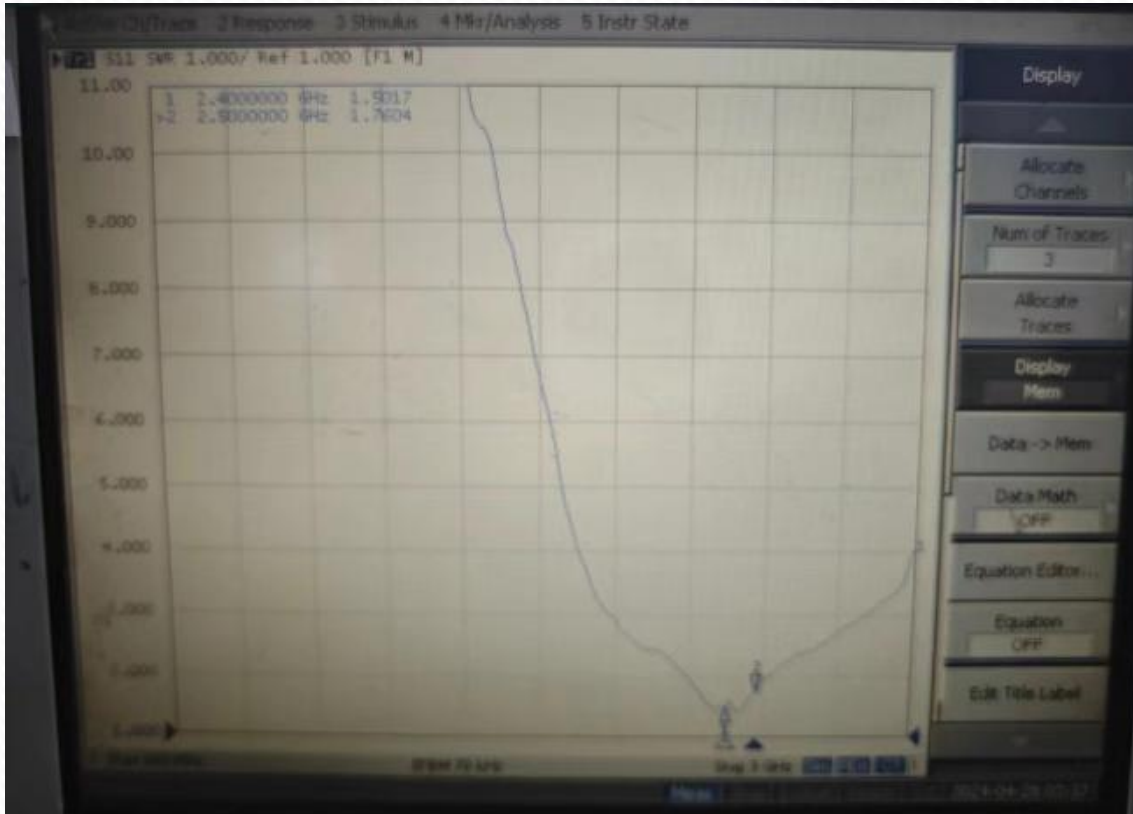
Equipments Items	Total Quantity	Quantity for Shanghai R&D	Quantity for Shenzhen R&D	Quantity for ChongQing R&D
OTA chamber	10	4	5	1
5G Tester（SP9500-CTS）	3	1	1	1
R&S Tester（high configuration CMW500）	6	3	2	1
Japan Anritsu Tester（Dual Channel 8820）	4	2	2	--
NB-IoT Tester (SP8315)	3	1	1	1
Agilent Tester（8960）	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 type:SZ24046IB77

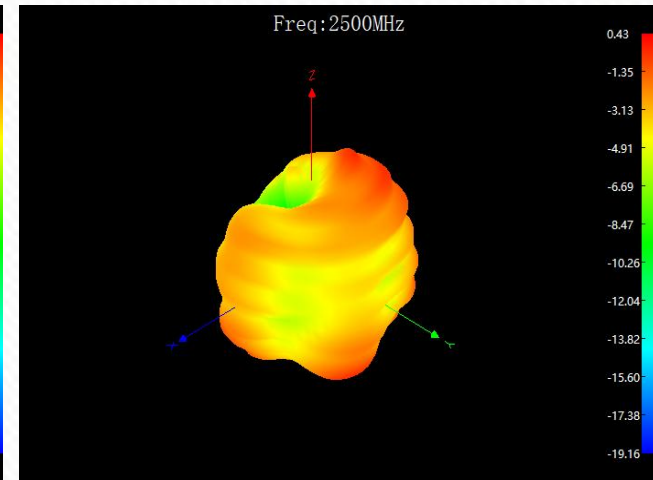
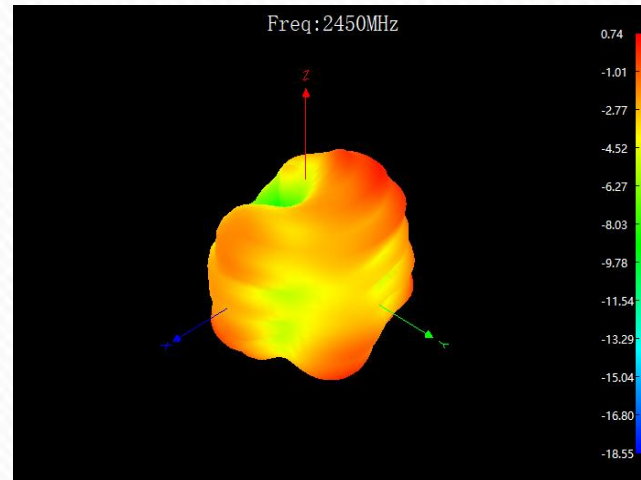
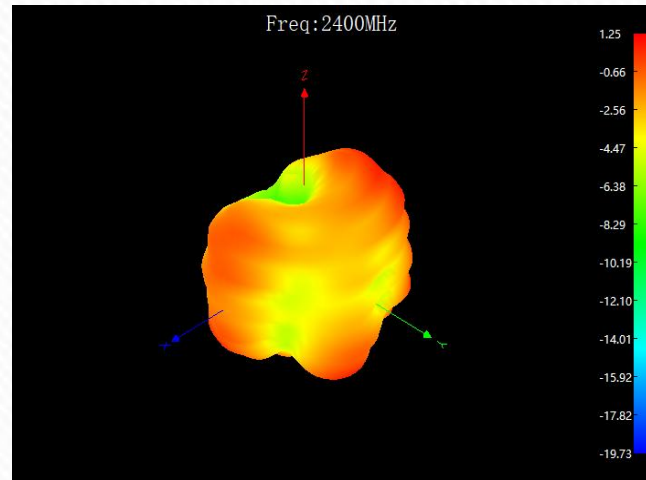


S11-VSWR

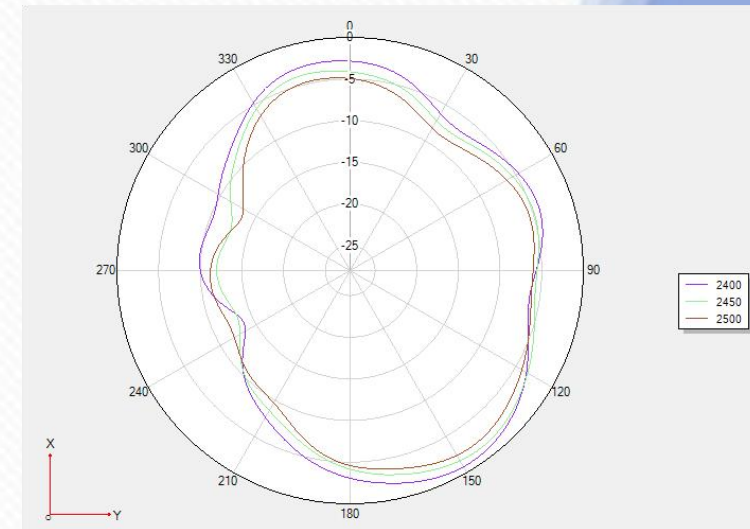
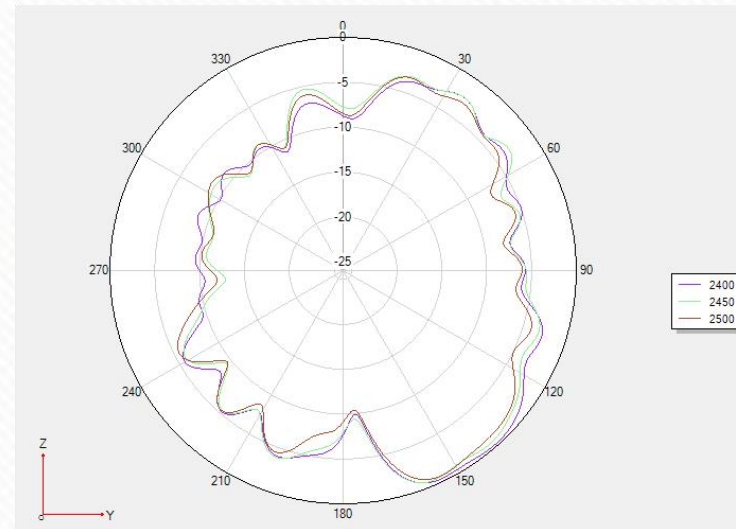
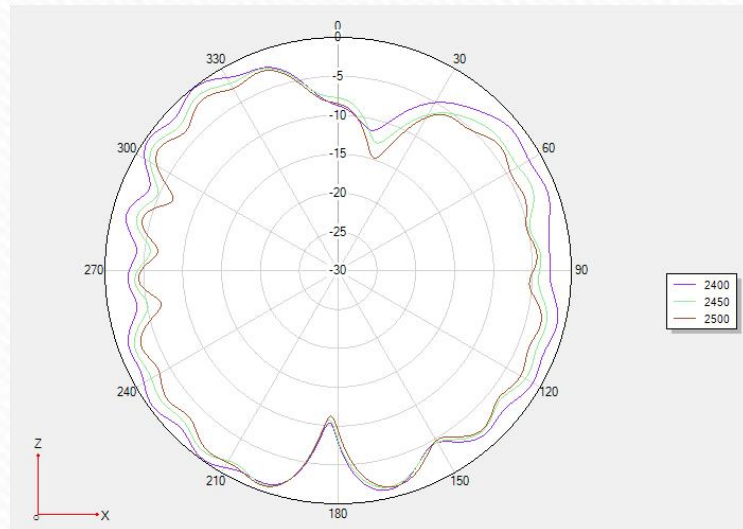


Frequency/Mhz	Efficiency / %	MaxGain/dBi
2400	42.47	1.91
2410	42.82	1.84
2420	42.93	1.7
2430	44.24	1.6
2440	44.72	1.54
2450	44.36	1.56
2460	44.12	1.68
2470	43.29	1.89
2480	42.35	2.12
2490	41.82	2.2
2500	40.98	2.22

3D



2D



Measurement	Band	Channel	Total
TRP	WIFI_B (1M)	1	17.47
TRP	WIFI_B (1M)	7	17.24
TRP	WIFI_B (1M)	13	16.83
TIS(EIRP)	WIFI_B (11M)	1	-80.69
TIS(EIRP)	WIFI_B (11M)	7	-83.92
TIS(EIRP)	WIFI_B (11M)	13	-84.44
TRP	WIFI_G (6M)	1	11.73
TRP	WIFI_G (6M)	7	11.57
TRP	WIFI_G (6M)	13	9.04
TIS(EIRP)	WIFI_G (54M)	1	-67.15
TIS(EIRP)	WIFI_G (54M)	7	-70.66
TIS(EIRP)	WIFI_G (54M)	13	-69.33
TRP	WIFI_N_ISM (6.5M)	1	9.01
TRP	WIFI_N_ISM (6.5M)	7	8.88
TRP	WIFI_N_ISM (6.5M)	13	7.82
TIS(EIRP)	WIFI_N_ISM (65M)	1	-64.55
TIS(EIRP)	WIFI_N_ISM (65M)	7	-66.48
TIS(EIRP)	WIFI_N_ISM (65M)	13	-64.71

The above is the latest validation test data.

Thank You

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