

Antenna Testing Report

Project Overview

Prototype status	/
Device type	Classcast
Number of antennas	2.4G antenna
Frequency band	2400-2500Mhz
Structural style	FPC antenna
Environment adjustment	No change
Matching modification	No change

Equipment List



The industry's top 64 sensors OTA chamber

Frequency range: 400MHz-11GHz

Device Limitation: 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

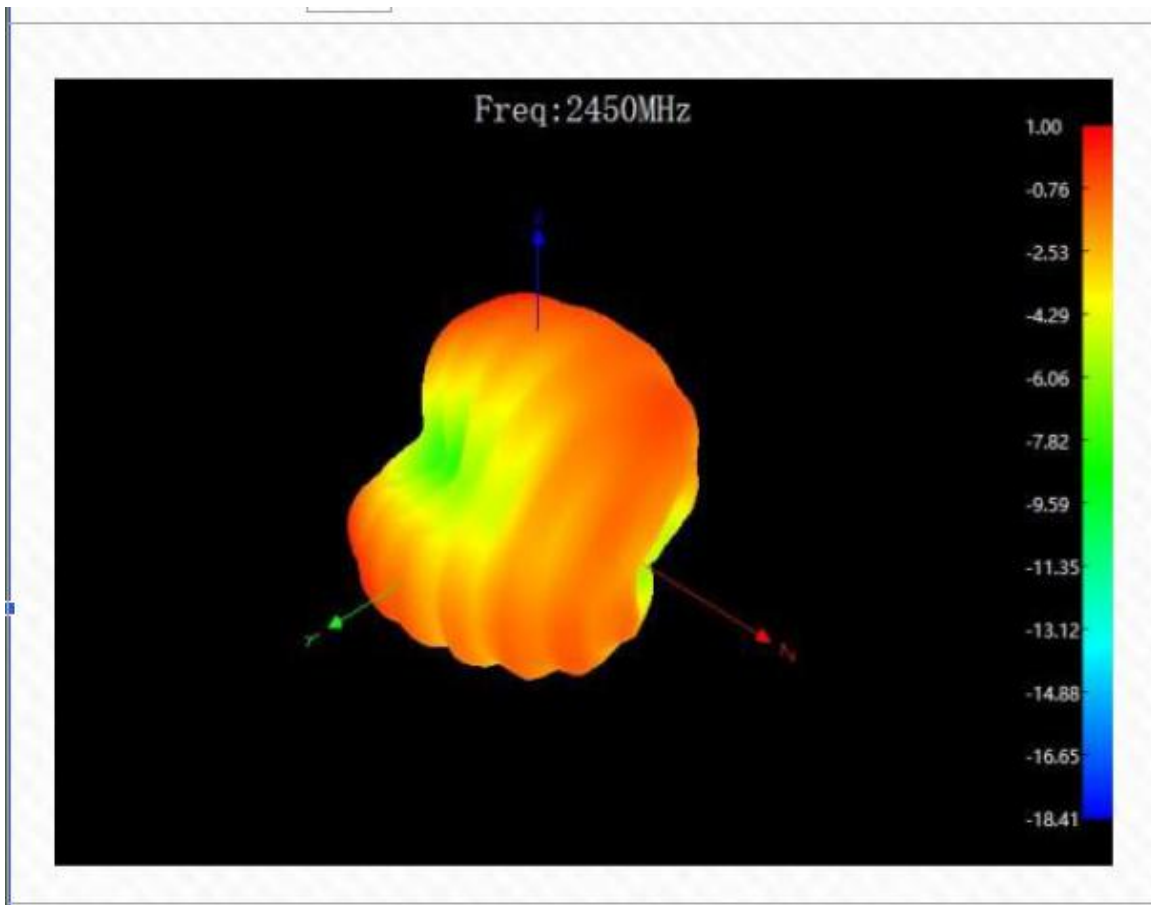
Gain data

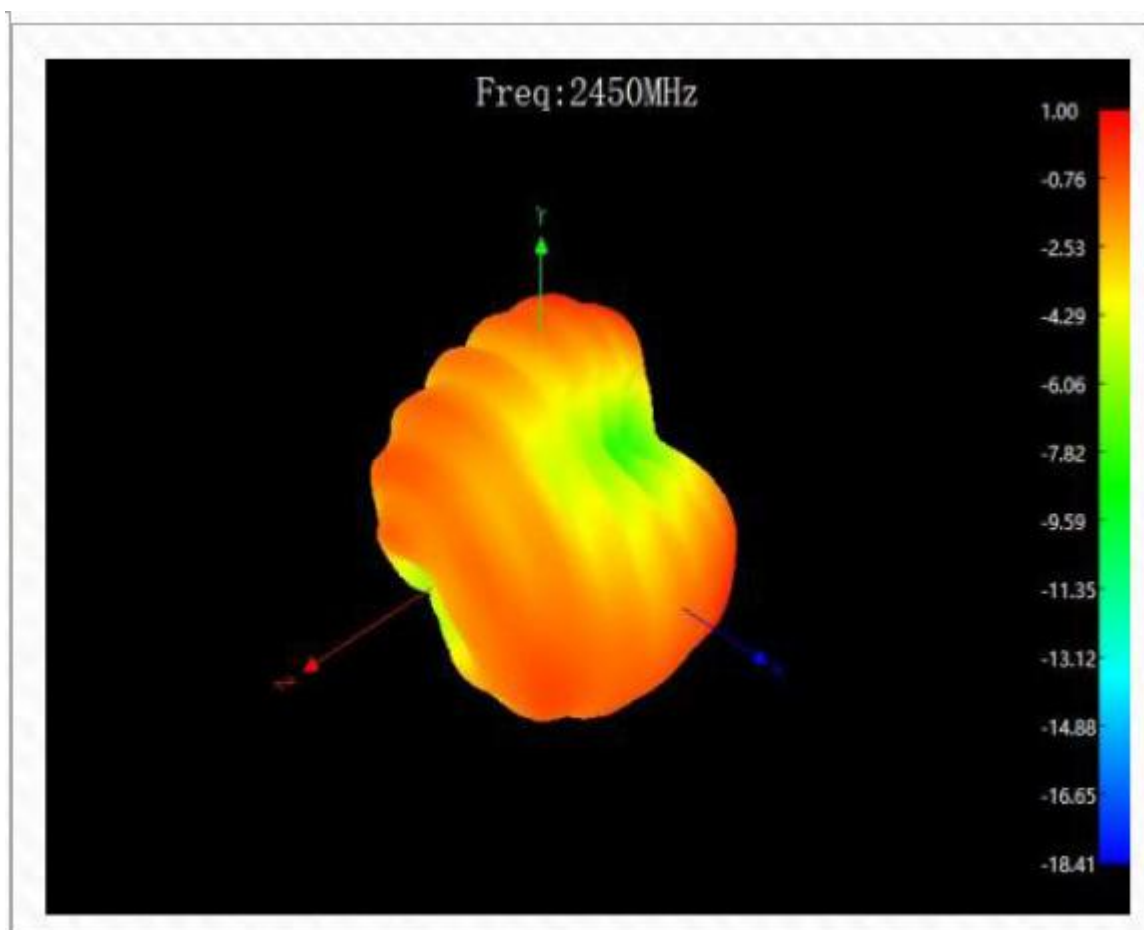
S11-VSWR

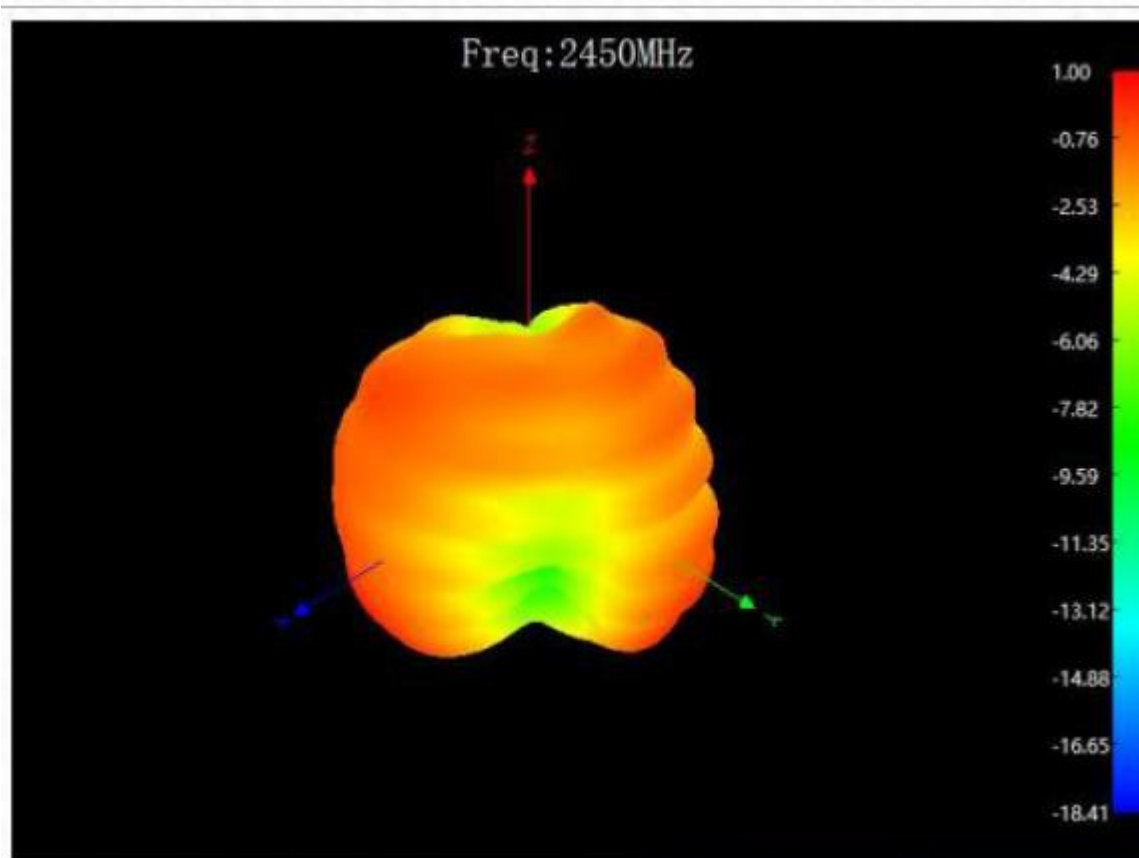


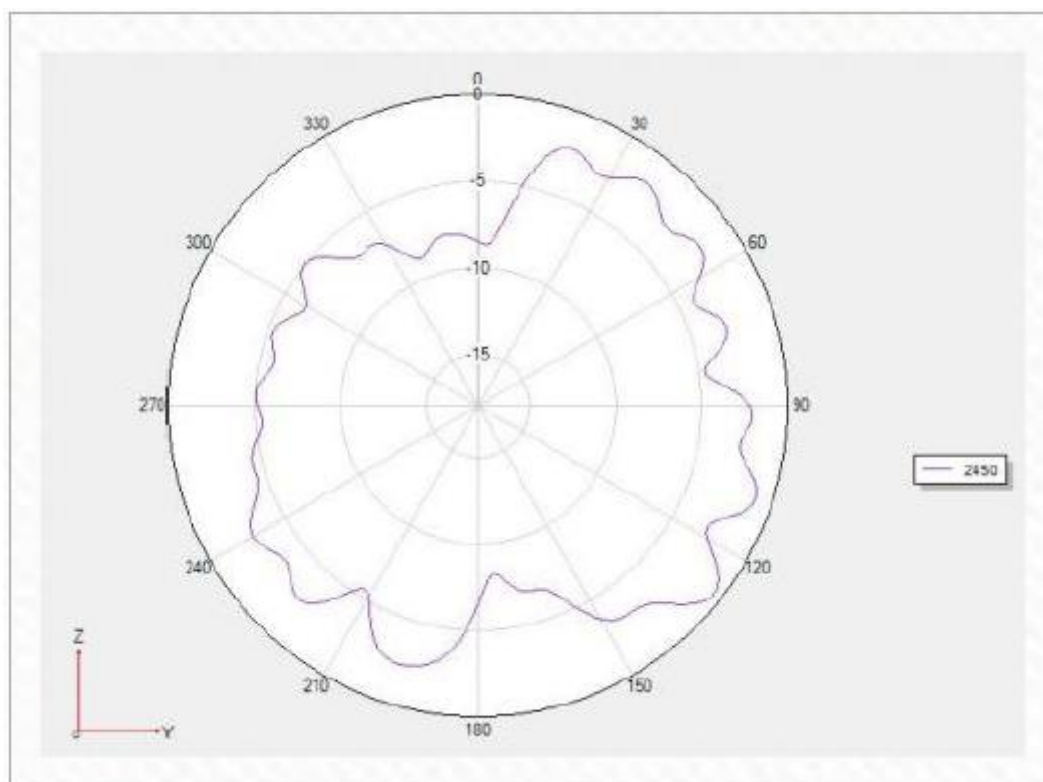
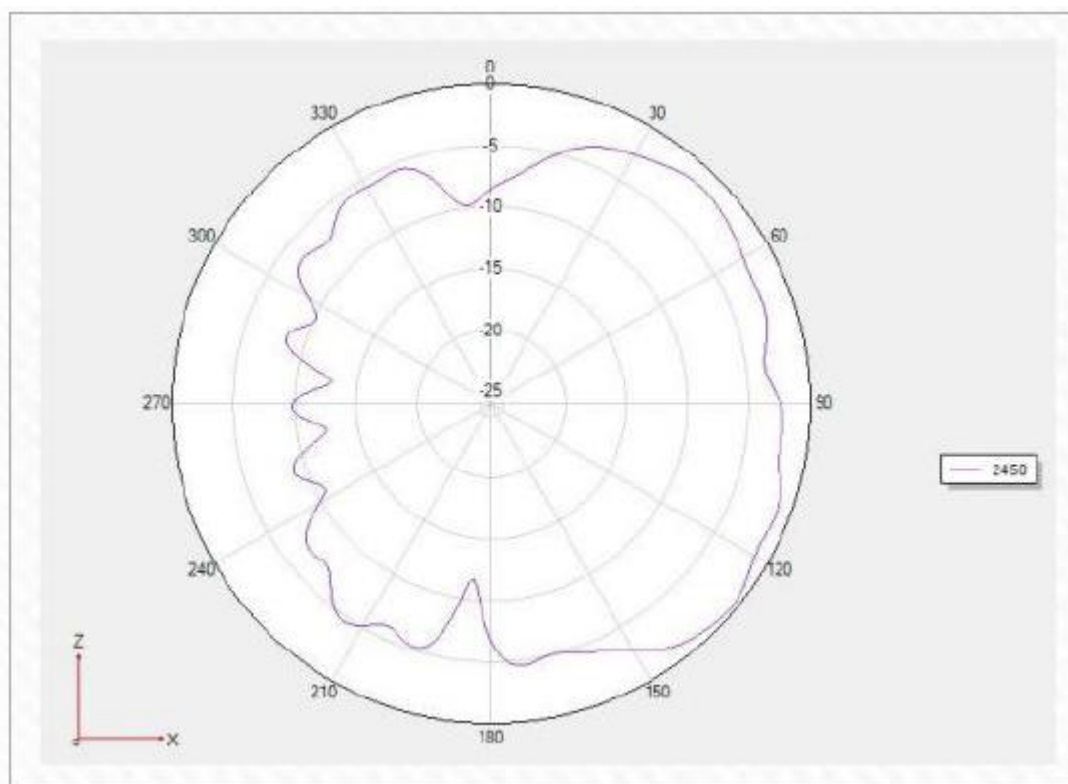
Frequency/Mhz	MaxGain/dBi	Efficiency / %
2400	0.02	47.53
2410	0.94	45.84
2420	-0.42	45.15
2430	-0.1	46.98
2440	-0.2	45.87
2450	1	47.4
2460	0.41	48.08
2470	0.69	45.71
2480	0.61	48.53
2490	1.38	45.05
2500	1.05	45.98

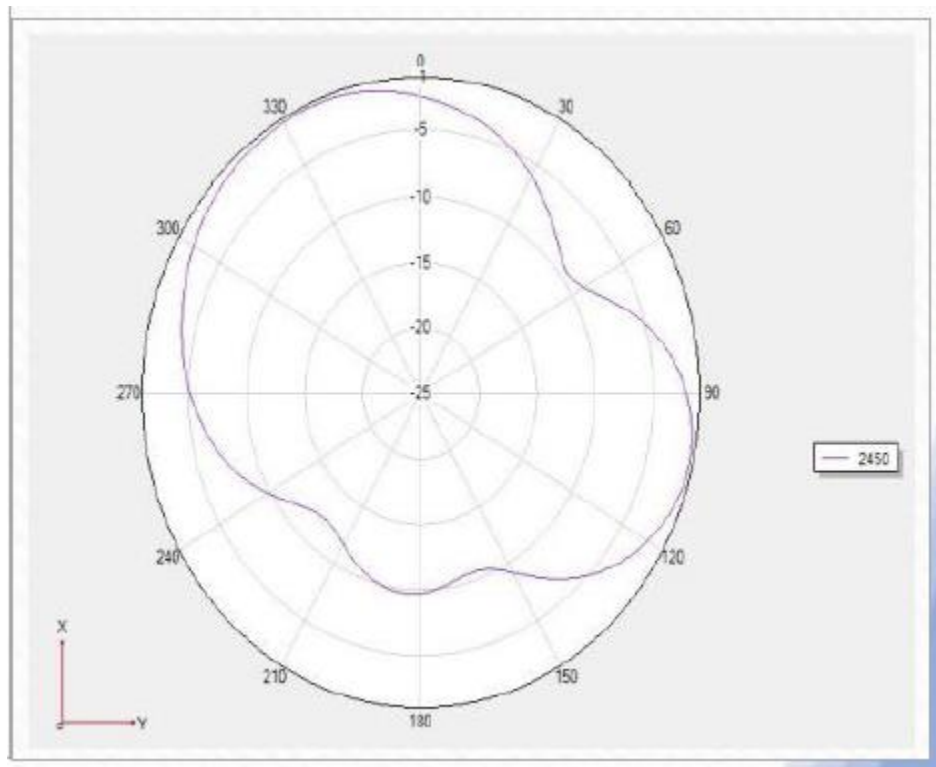
Antenna size











WIFI Active data

Measurement	Band	Channel	Total
TRP	WIFI_B (11M)	1	15.7
TRP	WIFI_B (11M)	7	15.83
TRP	WIFI_B (11M)	13	15.39
TIS(EIRP)	WIFI_B (11M)	13	-86.76
TRP	WIFI_G (54M)	1	14.92
TRP	WIFI_G (54M)	7	14.68
TRP	WIFI_G (54M)	13	14.43
TIS(EIRP)	WIFI_G (54M)	13	-72.17
TRP	WIFI_N_ISM (65M)	1	14.19
TRP	WIFI_N_ISM (65M)	7	14.81
TRP	WIFI_N_ISM (65M)	13	14.86
TIS(EIRP)	WIFI_N_ISM (65M)	13	-71.42