
Antenna Specification

Electrical Specification

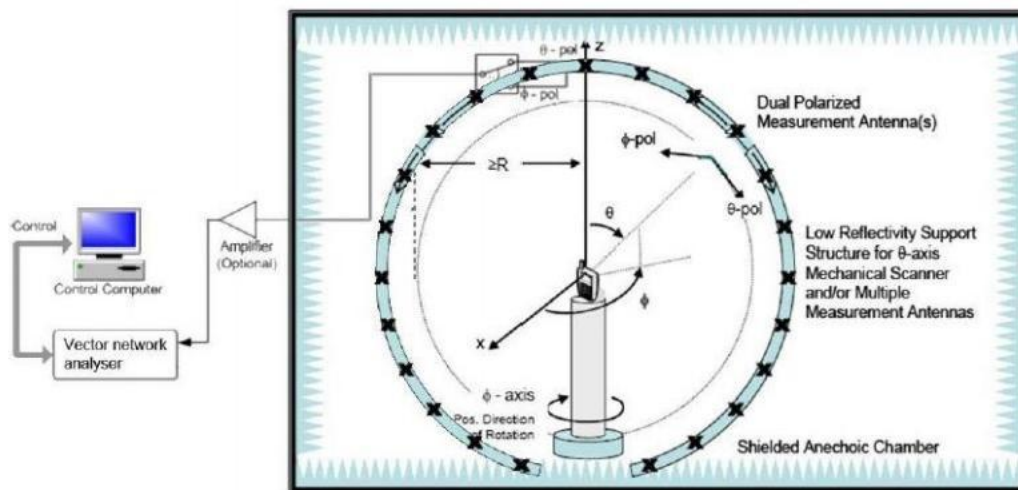
Model	Meander line
Frequency Range (MHz)	2402-2480
Bandwidth (MHz)	79
VSWR	
Gain (dBi)	3.29
Input Impedance (Ω)	50
Polarization Type	Linear
Antenna Length (mm)	29mm
Pattern	Omni-directional
Antenna type	PCB antenna
MANUFACTURER	ShenZhen Belon Solutions Co.,Ltd
Name of tester	Long zhi lin
Test date	2023/6/25

Equipment	under Test
No.	EUT status
1#	intact

Test method

Test 5 antennas under Standard IEEE149-1979 and record the test results(first test results).

Test Setup



Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Vector Network Analyzer	Agilent	E5071C	MY46103472	2018. 1. 25	2019. 1. 25
5*5*5 Full Anechoic Chamber	SATIMO	5*5*5	CN-1307-555	2018. 09. 28	2019. 09. 28
SG24 Multi-probe Antenna Measurement System	SATIMO	SG24-L	1101855-0001	2018. 12. 4	2019. 12. 4

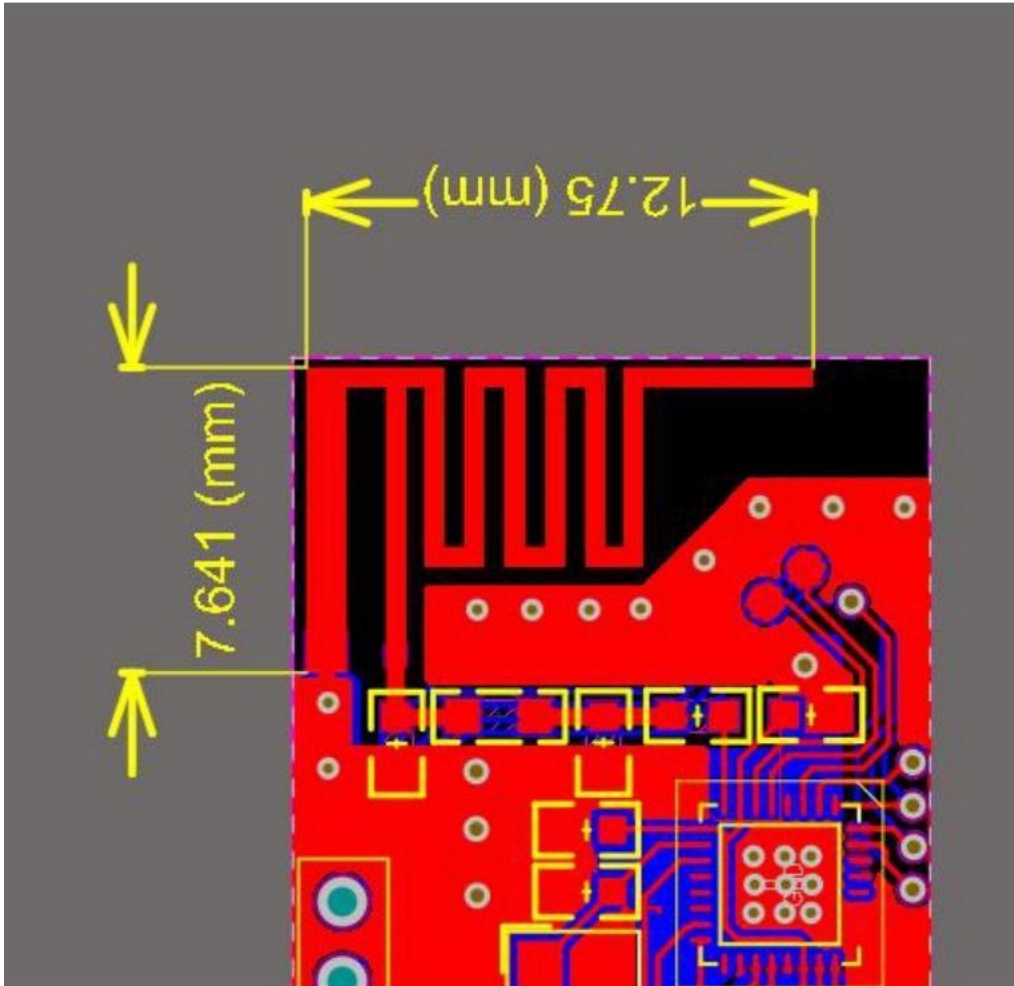
Test Uncertainty

Item	Uncertainty
Gain	± 0.5 dB

Gain&Efficiency

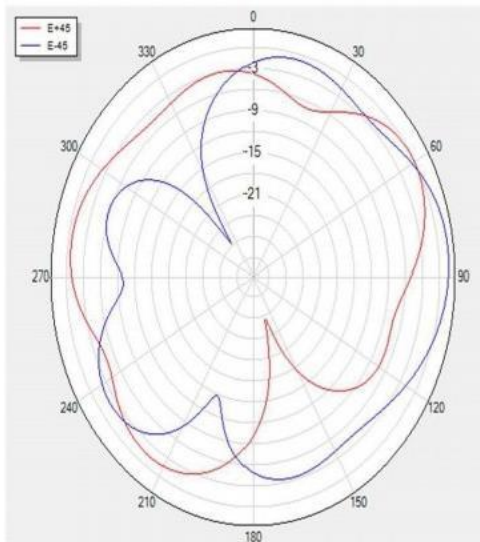
frequency (MHz)	gain (dB)	mingain (dB)	CO Gain (dB)	CP Gain (dB)	efficiency (dB)	efficiency
2400	0.27	-12.26	-0.46	-0.96	-3.2	47.85%
2410	0.08	-12	-0.67	-1.28	-3.52	44.47%
2420	0.67	-10.78	-0.08	-0.53	-3.09	49.09%
2430	0.88	-10.13	0.13	-0.16	-3.07	49.30%
2440	1.14	-9.53	0.32	0.17	-3.01	49.95%
2450	1.5	-8.82	0.69	0.61	-2.75	53.08%
2460	1.67	-8.71	0.82	0.8	-2.67	54.10%
2470	2.04	-8.46	1.08	1.07	-2.4	57.57%
2480	2.5	-8.2	1.37	1.32	-2.02	62.86%
2490	2.23	-8.71	0.88	0.8	-2.33	58.50%
2500	2.65	-8.43	1.17	1.01	-1.86	65.14%
2510	2.88	-8.33	1.18	1.01	-1.66	68.29%
2520	2.99	-8.38	1.04	0.82	-1.57	69.70%
2530	3.26	-8.16	1.26	0.91	-1.2	75.93%
2540	3.2	-8.22	1.23	0.83	-1.15	76.65%
2550	3.11	-8.22	1.3	0.76	-1.13	77.12%
2560	3.29	-8.18	1.67	1.06	-0.88	81.67%
2570	3.17	-8.36	1.81	1.15	-0.91	81.14%
2580	2.73	-8.78	1.82	1.18	-1.2	75.81%
2590	2.99	-8.72	2.41	1.85	-0.92	80.93%
2600	2.65	-9.22	2.37	1.83	-1.27	74.73%

Dimension

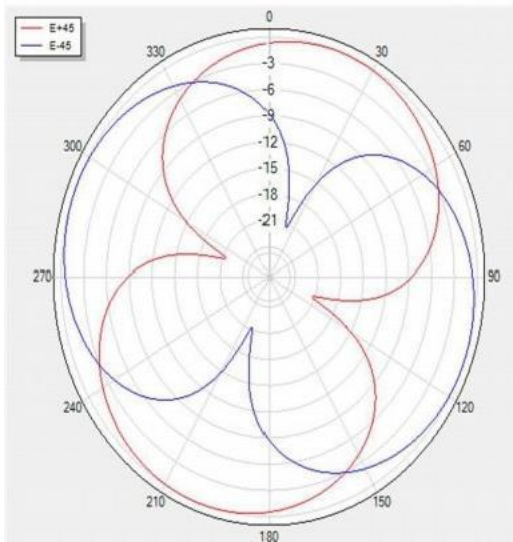


PolarGraphs(2400/2440/2480MHz)

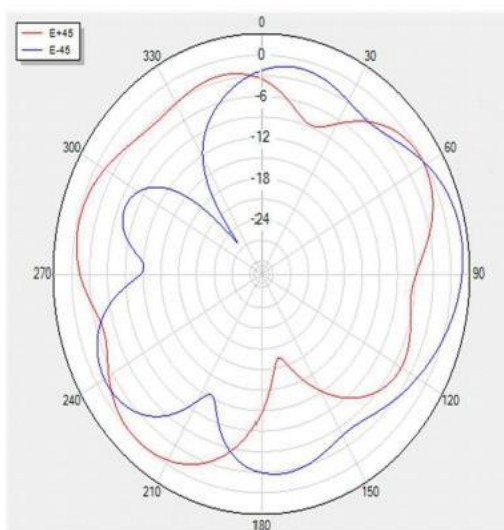
H Theta=90 freq=2400MHz



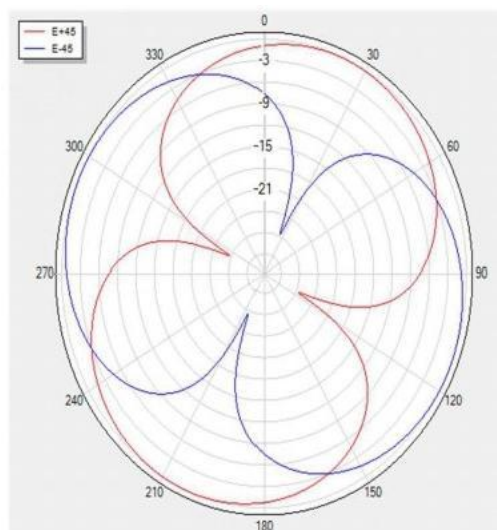
H Theta=0 freq=2400MHz



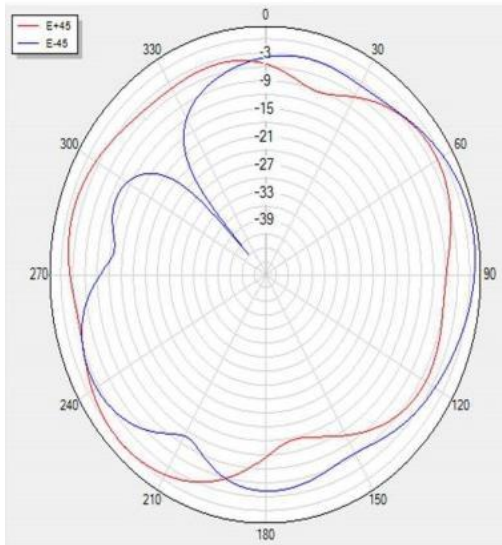
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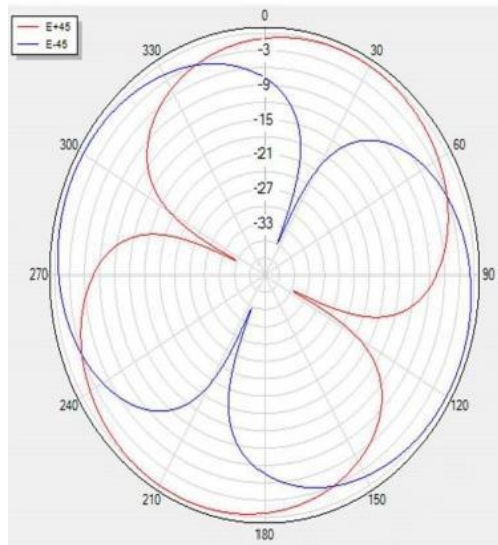
H Theta=0 freq=2440MHz



H Theta=90 freq=2480MHz

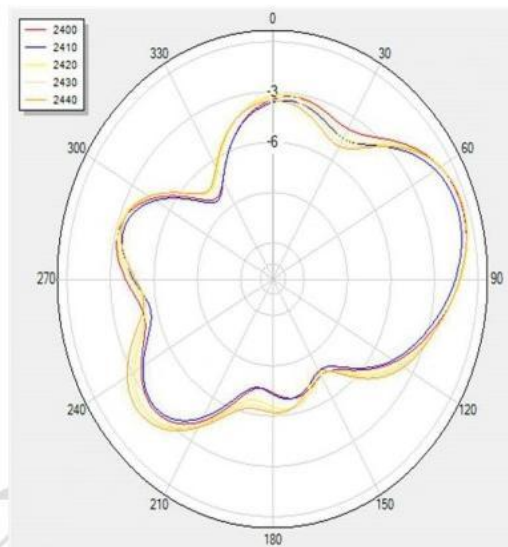


H Theta=0 freq=2480MHz

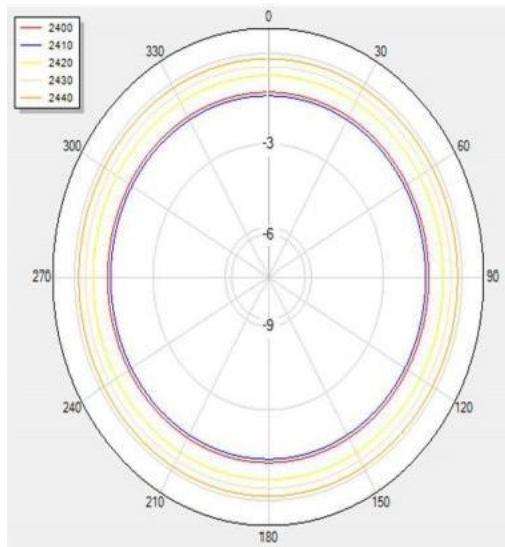


EtotalGraphs

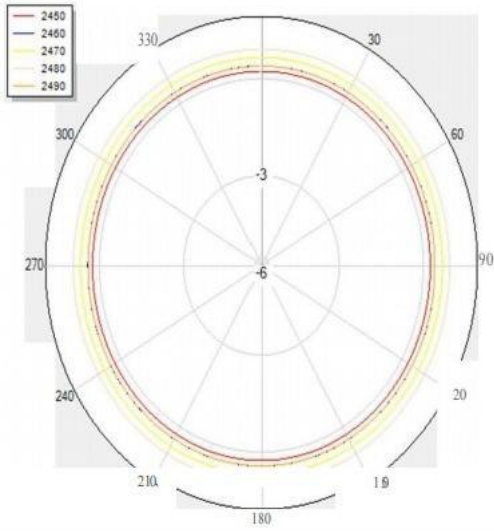
H Theta=90



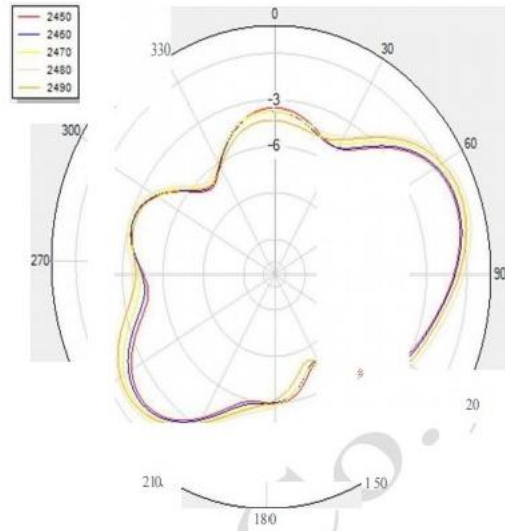
H Theta=0



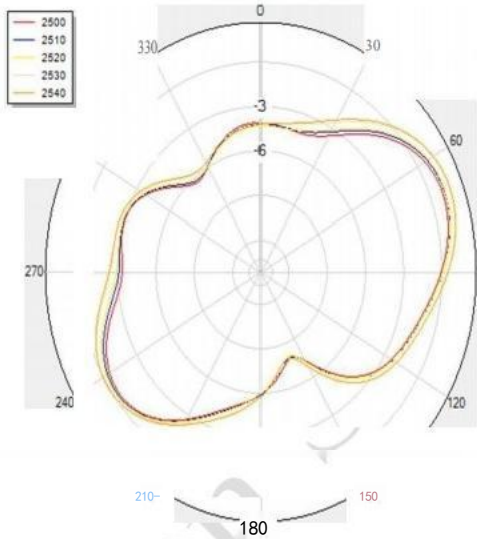
HTheta=0



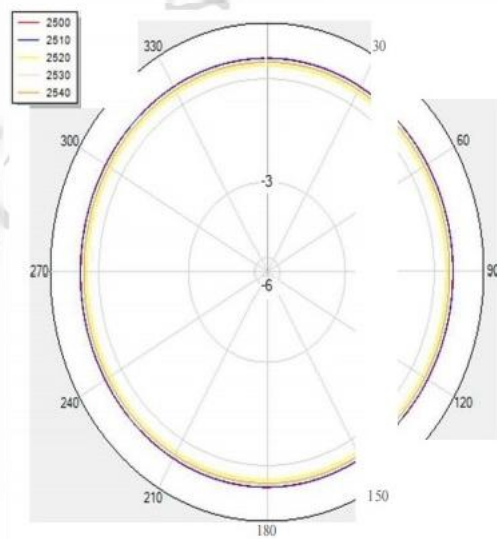
HTheta=90



HTheta=90

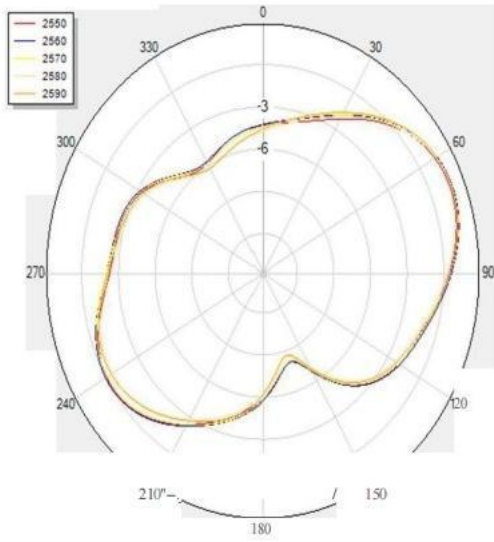


H Theta=0

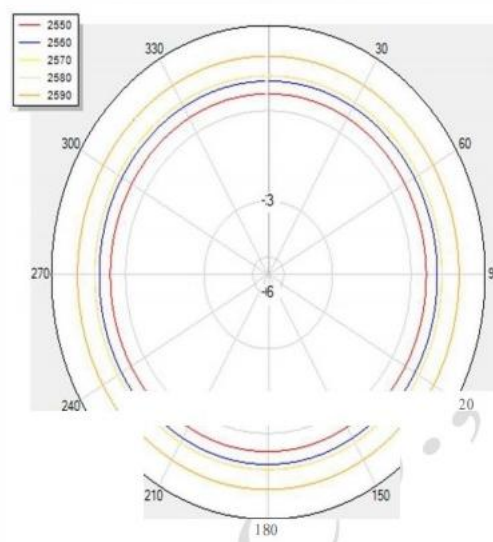


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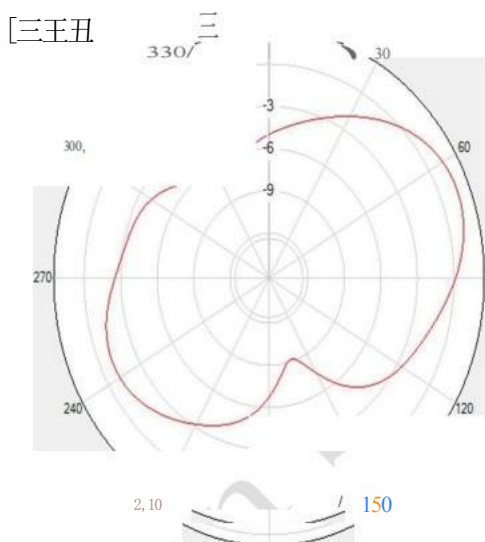
HTheta=90



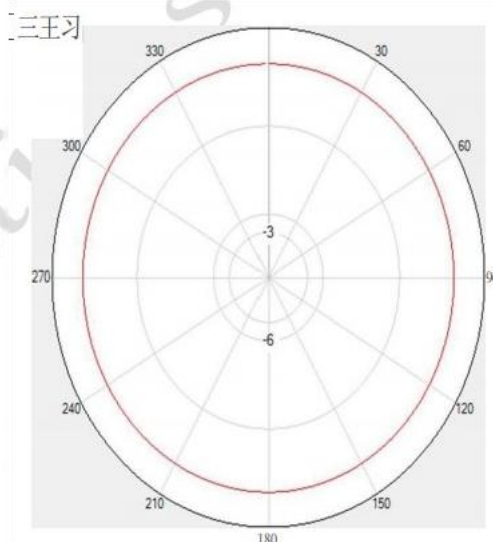
H Theta=0



HTheta=90

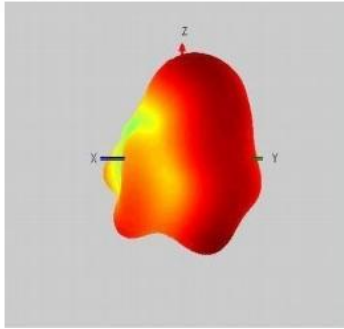


HTheta=0

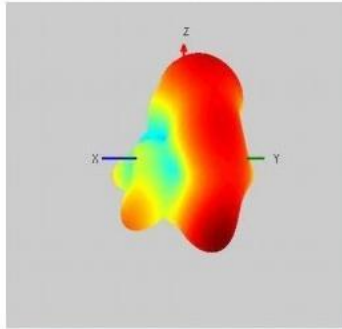


Radiation Pattern 3D

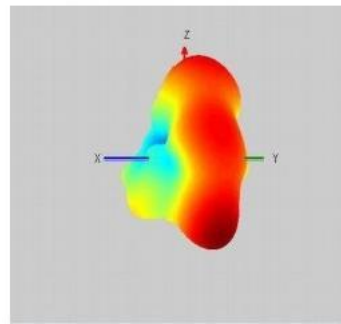
2402MHZ



2441MHZ



2483MHZ



Test scene

