

Antenna Test Report

Index:

1. Overview
2. Revision History
3. Test Item & Equipment
4. Matching Circuit
5. S Parameter Test
6. Active Test
7. Conducted Emission Test
8. Environmental Processing

Project Name: UTI260T
Author: 黄文华
Update: 2023-07-07

项目概况

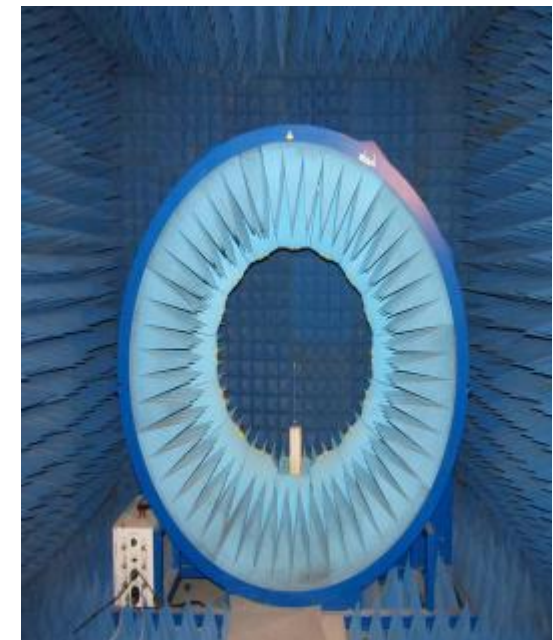
OverView

CUSTOMER NAME	优利德	PROJECT NAME	UT1260T
Items		Details	
• FREQUENCY		13.56MHZ; 2400MHZ-2500MHZ; 5100MHZ-5850MHZ	
• PROJECT TYPE			
• ANTENNA SPACE			
• FEED & GROUND PAD			
• SENSITIVE ELEMENTS			
• ANTENNA TYPE			
• PCB			
• OTHERS			



Test Item & Equipment

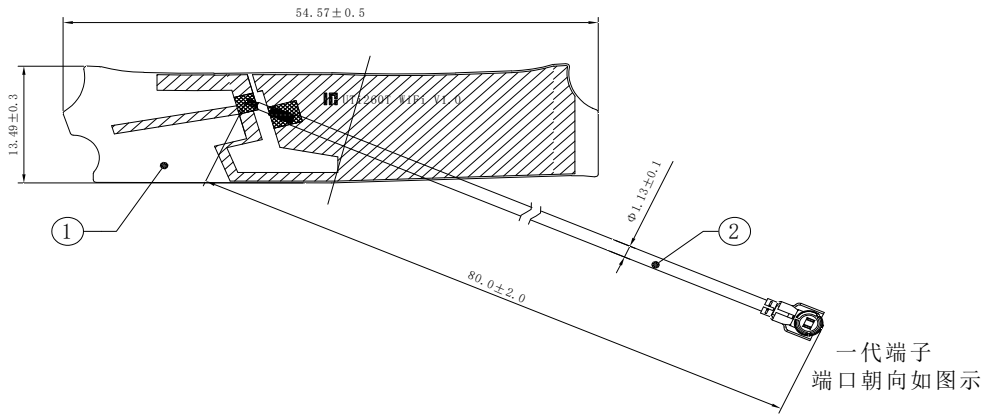
List	Test Item	Equipment	
1.S Parameter	VSWR, Return Loss	Agilent VNA	
2.Active Test	TRP, TIS	Agilent 8960	RayZone1800
3.Passive Test	Gain, Efficiency, Pattern	Agilent E5071C	



工程图 SCHEDULE DRAWING



Rev	Description	Date	Remark
A	New drawing	20230831	



备注:

1. 频率范围: 2400-2500MHz; 5100-5850MHz
2. 阻抗: 50Ω
3. 驻波: 3.0MAX
4. 最大增益: 4.15dBi
5. 极化: 全向
6. 温度范围: -40℃ - 85℃
7. 各零件符合ROHS

No.	Name	Material	Color	Treatment	Amount	Remark
1	FPC		黑色	54.57*13.49	1	
2	同轴线		黑色	Φ1.13*80.0	1	

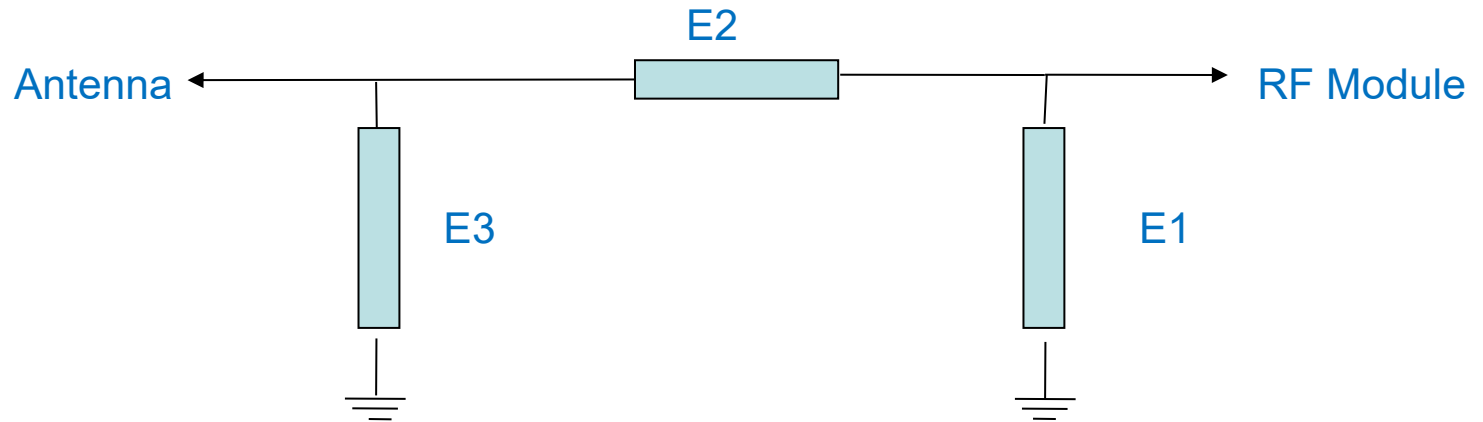


深圳摩天射频技术有限公司
ShenZhen MyAntenna RF Technology Co., Ltd

Third Angle		Project	UTi260T	Date		
0~10	±0.05	○	0.02	Part Name	WIFI天线	
10~18	±0.10	◎	Φ0.03	Part No.	M01-0201030ROA	
18~30	±0.12	⊥	0.02	Material	Checked by	MD
30~40	±0.15	∕	0.04	Treatment	Approved by	RF
40~	±0.20	Angle	±0.5°	Color	Unit	mm

Scale	1:1	Rev	A
-------	-----	-----	---

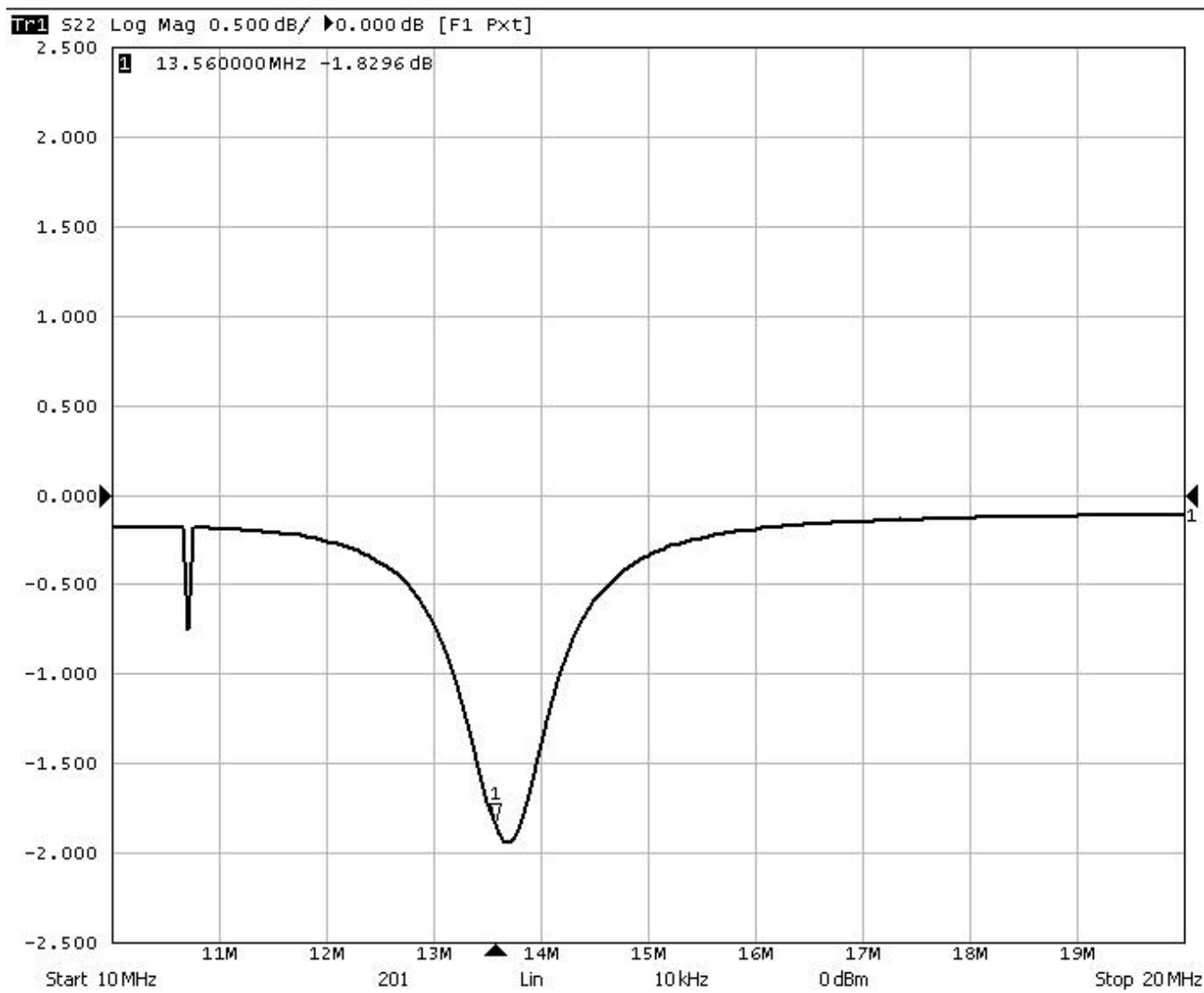
Matching Circuit



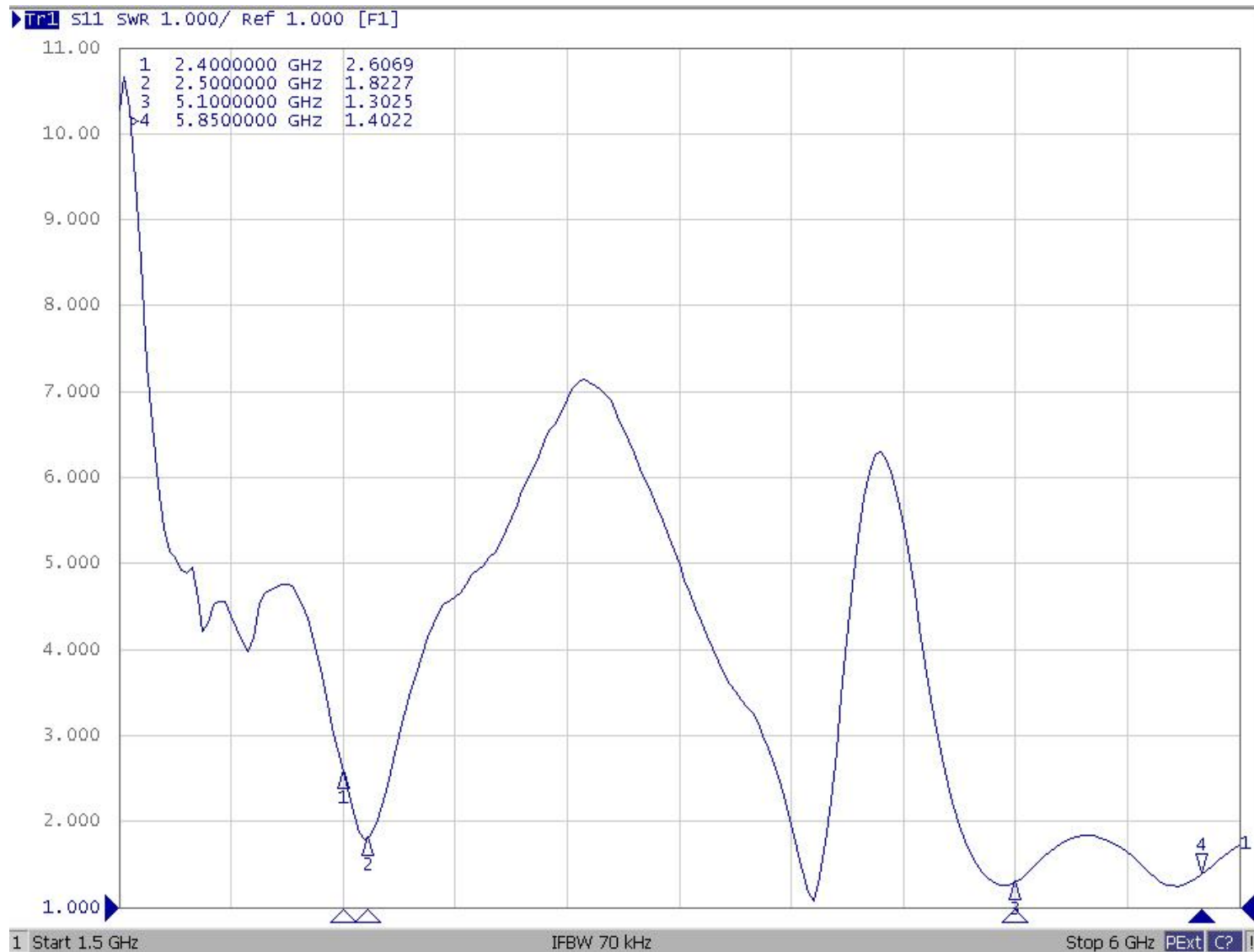
Element	Value
E1(0402)	NC
E2(0402)	0
E3(0402)	NC

2023-7-7

NFC天线VSWR

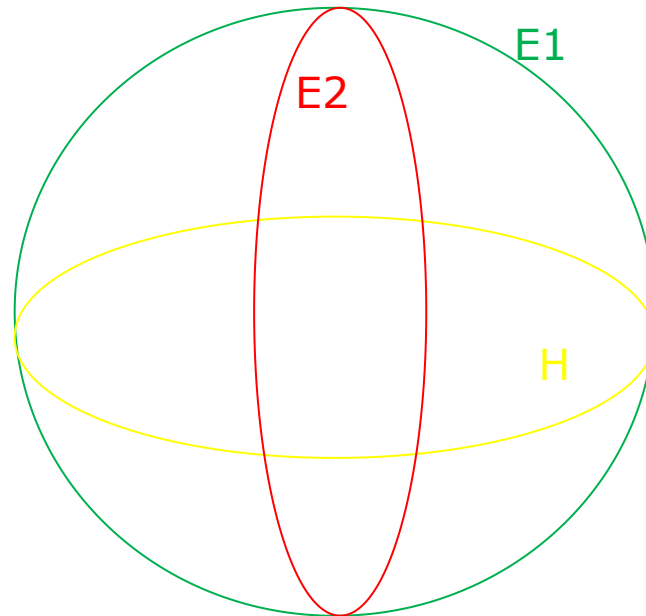


WIFI天线VSWR

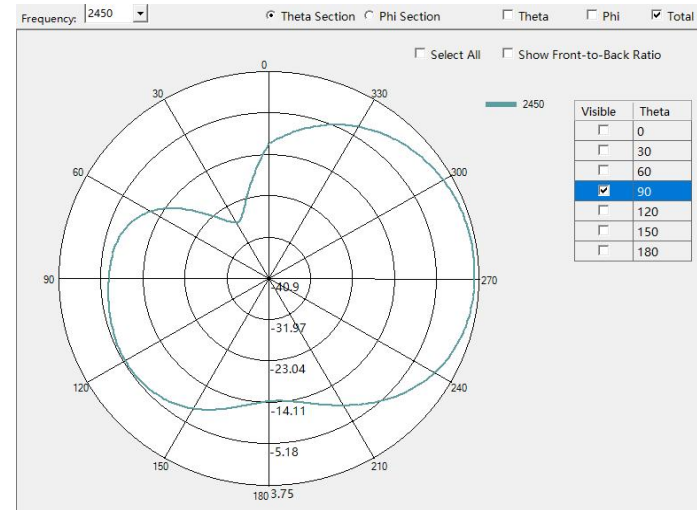
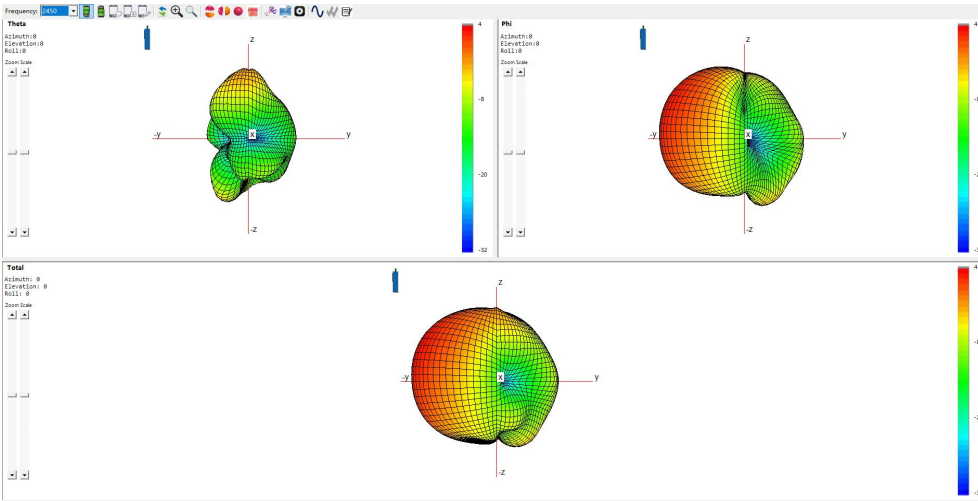


WiFi gain

Freq	Efficiency_ Pcent	Gain	Freq	Efficiency_ Pcent	Gain	Freq	Efficiency_ Pcent	Gain	Freq	Efficiency_ Pcent	Gain
2400	45.55	2.86	5100	57.58	4.15	5380	50.53	2.55	5660	48.96	2.72
2410	48.67	3.24	5120	56.13	3.85	5400	50.02	2.51	5680	47.46	2.66
2420	47.74	3.32	5140	56.53	3.88	5420	47.04	2.3	5700	46.33	2.56
2430	46.59	3.32	5160	56.33	3.69	5440	48.1	2.5	5720	43.81	2.55
2440	46.98	3.46	5180	57.72	3.68	5460	50.11	2.72	5740	45.5	2.89
2450	47.17	3.62	5200	59.46	4	5480	50.37	2.87	5760	46.34	3
2460	44.26	3.32	5220	56.18	3.76	5500	50.94	2.94	5780	47.58	3.21
2470	42.22	3.07	5240	56.08	3.77	5520	45.68	2.49	5800	45.75	3.26
2480	40.81	3.01	5260	57.03	3.68	5540	43.12	2.25	5820	43.79	3.1
2490	39.8	2.95	5280	57.3	3.63	5560	45.97	2.47	5840	41.53	2.87
2500	40.18	3.02	5300	57.36	3.53	5580	51.46	2.75	5860	41.31	2.92
			5320	56.02	3.14	5600	51.66	3.02	5880	40.2	2.79
			5340	52.17	2.83	5620	52.78	3.11	5900	40.21	2.83
			5360	50.39	2.55	5640	49.52	2.72			

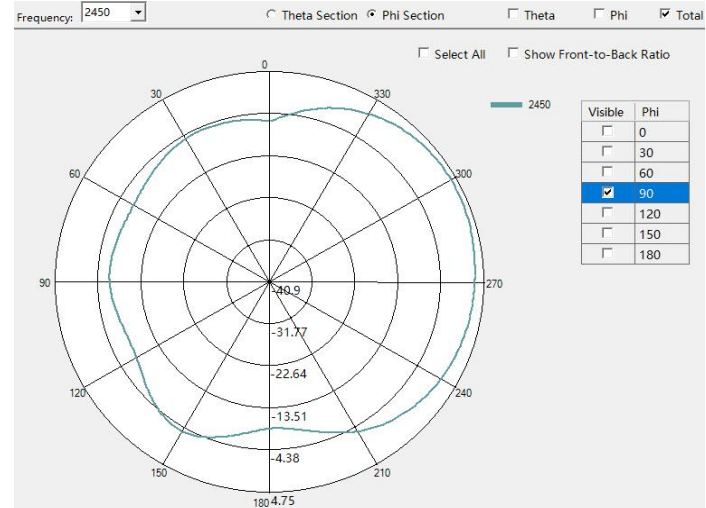
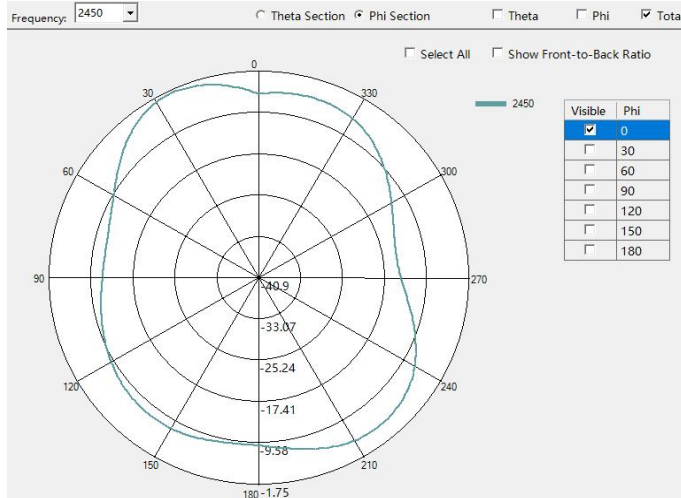


Antenna 2D/3D pattern 2450MHz



3D

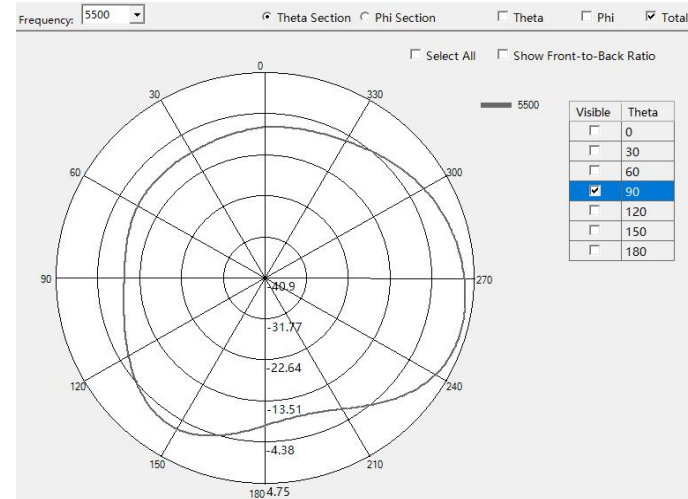
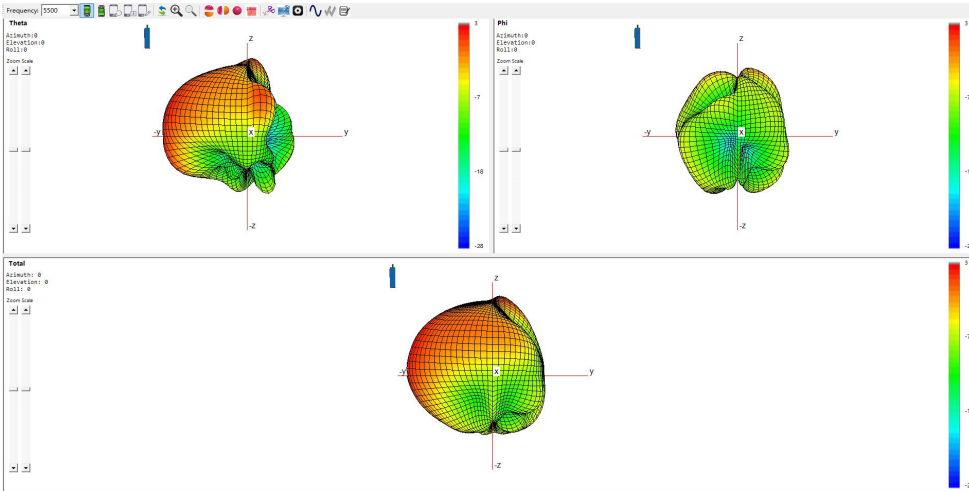
H



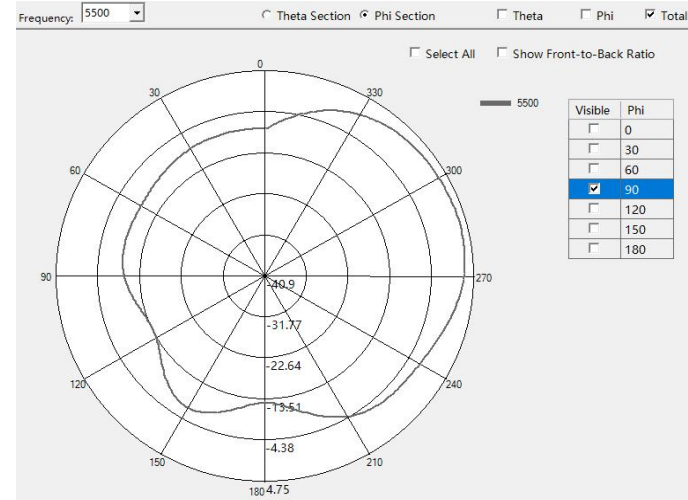
E1

E2

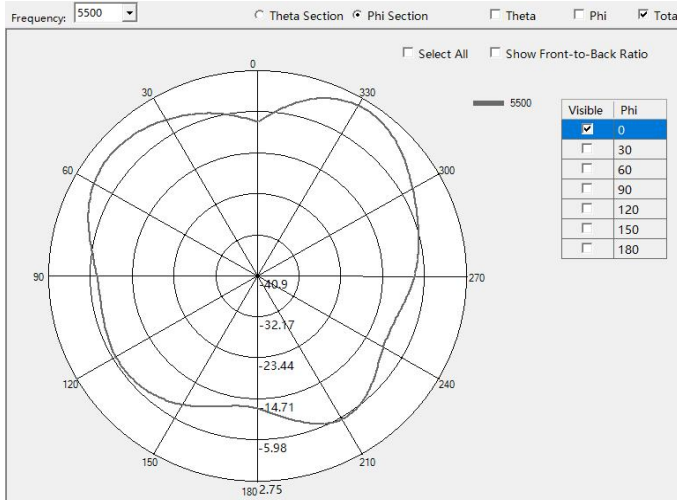
Antenna 2D/3D pattern 5500MHz



H



E2



E1

Manufacturer: Shenzhen Motian RF Technology Co., Ltd.
Address: Room 410, Building A, Fenghuang Zhigu, No.50 Tiezai Road, Gongle Community, xixiang street, Baoan District, Shenzhen.

2023-7-7