



Shenzhen Jiexuntong Wireless Technology Co., Ltd

Antenna Acknowledgement

Customer name: Minrray Industry Co.,Ltd

Project model: EZ-UT1

Our material No.: 20505022427

Customer Part No.: 3060000000477

Antenna specification: WIFI antenna

Date of issue: September 15, 2022

Manufacturer recognition column:

Project preparation	radio frequency	structure	approval	date

Customer recognition column:

confirm	to examine	approval	date



Acknowledgement Change Resume

edition	date	Description of change	remarks
R/A	2022-9-15	First edition	



Catalogue

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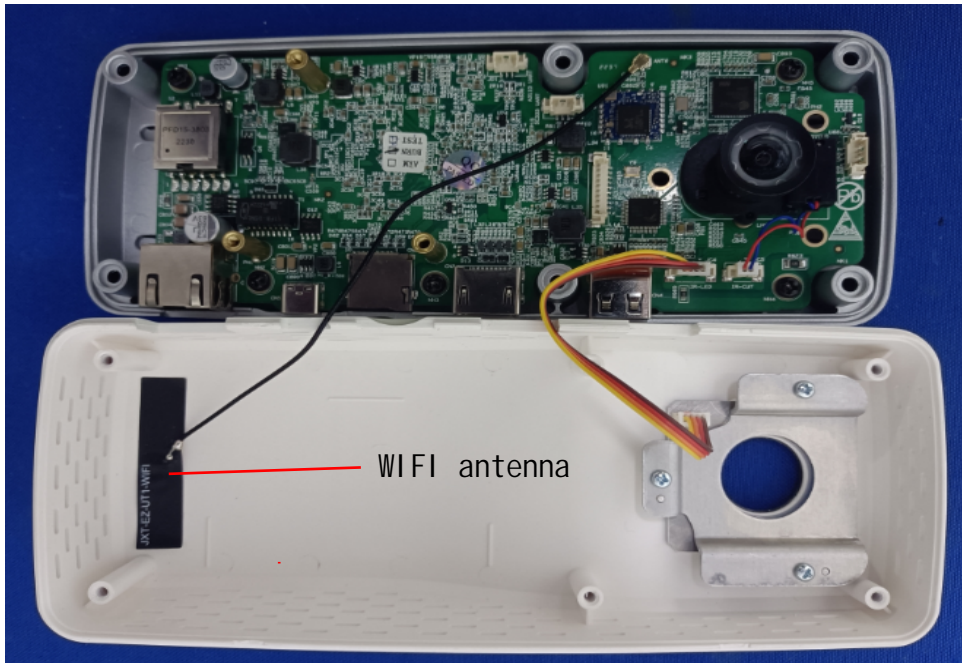
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One、 Assembly Diagram



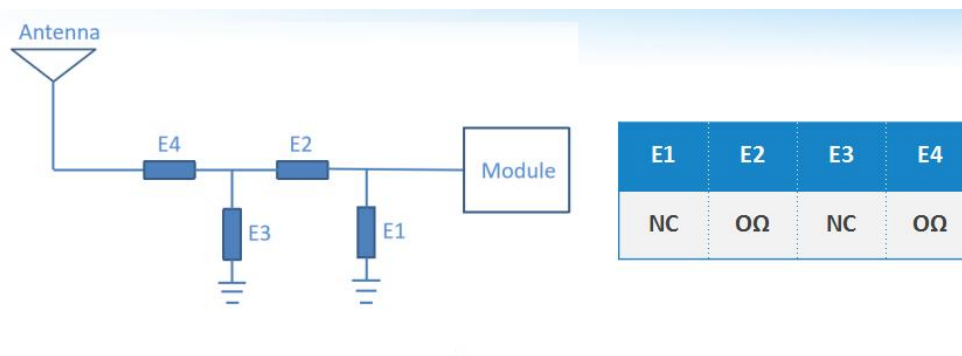
Two、 Testing environment

2.1. Environmental treatment

Nothing

Three、 Antenna matching

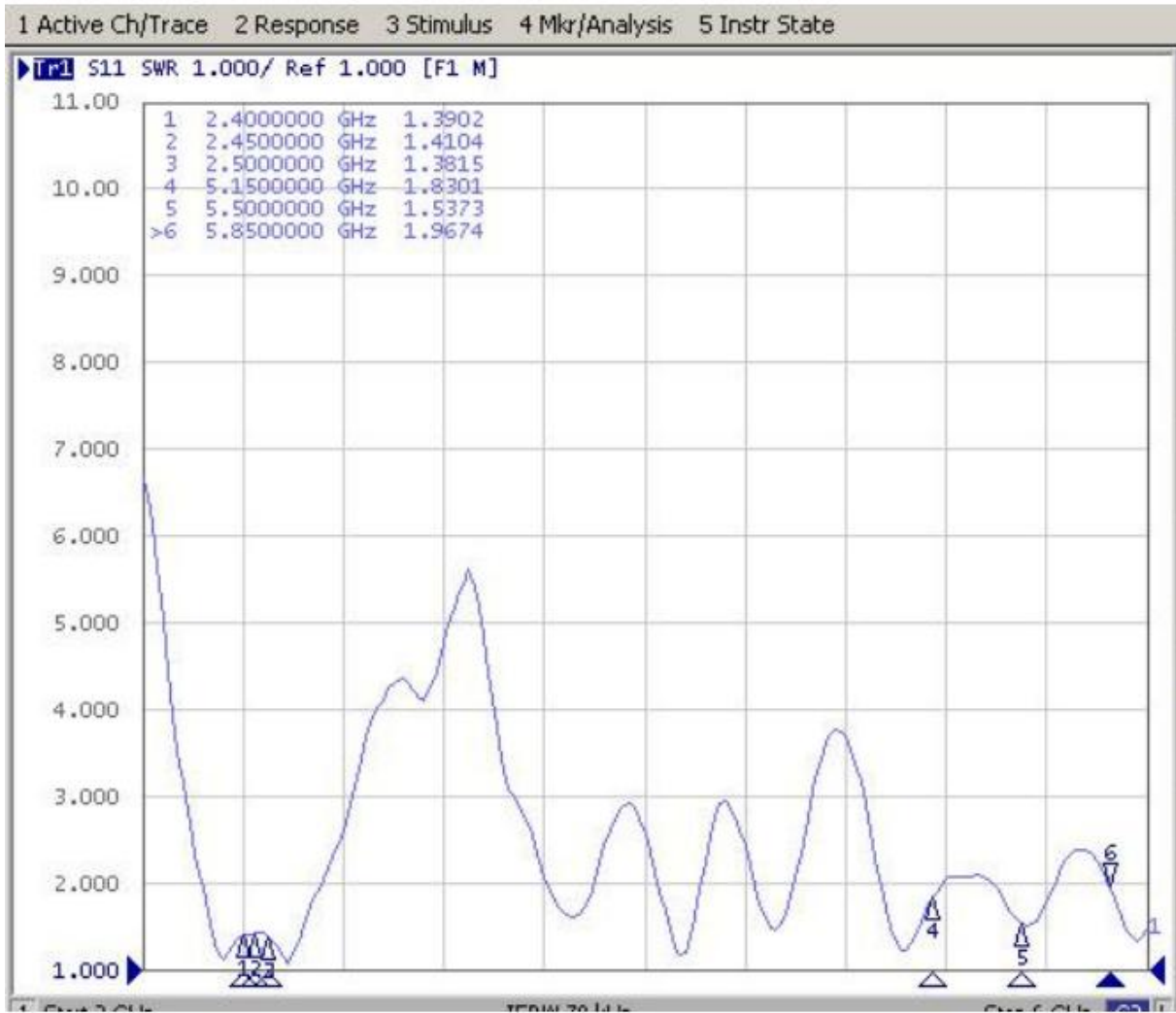
3.1 Antenna





Four、 Electrical performance report

4.1 Standing wave diagram





4.2 Efficiency and gain data

Freq (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	6.626687825	-1.61581798	68.93157505
2410	6.53557794	-1.73467081	67.07071236
2420	6.426018684	-1.767959068	66.55858695
2430	6.381112532	-1.776820485	66.42291815
2440	6.266889145	-1.764410265	66.612997
2450	6.28347417	-1.725110153	67.21852597
2460	6.224559095	-1.700991345	67.59286665
2470	6.264603982	-1.63338795	68.6532664
2480	6.208542191	-1.610443484	69.01693229
2490	6.187749612	-1.603775441	69.12298046
2500	6.154962465	-1.63208218	68.67391111

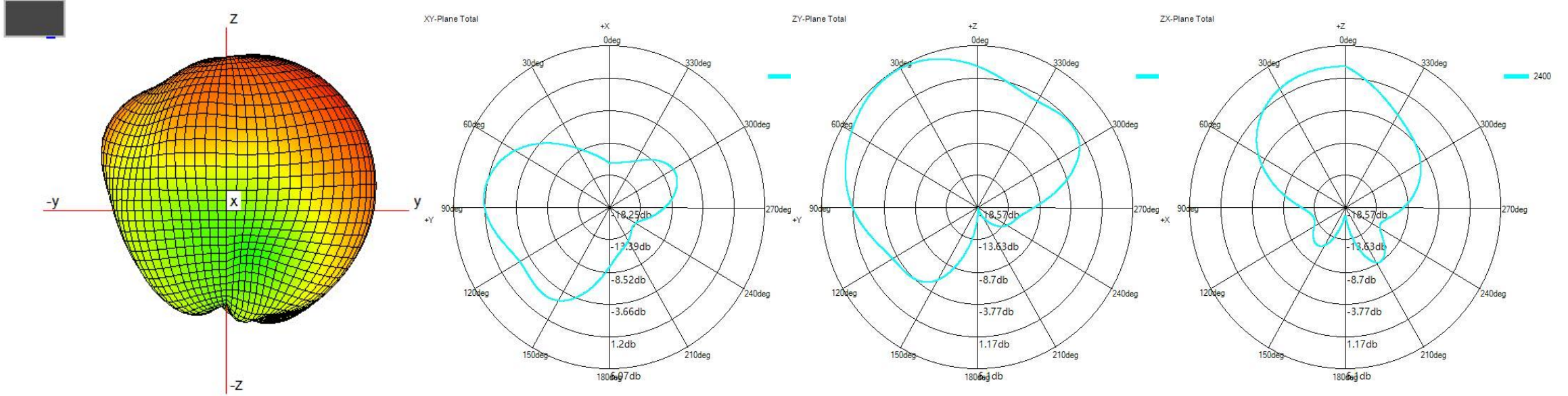


Freq(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
5000	5.525816413	-2.663463876	54.15687699
5050	5.498873538	-2.582279992	55.17876815
5100	5.618967915	-2.398759641	57.56043083
5150	5.611749045	-2.206986411	60.15910395
5200	5.589100327	-2.185937364	60.45138613
5250	4.798542111	-2.566375995	55.38120494
5300	4.6555408	-2.539040897	55.73088123
5350	4.851904502	-2.291483168	58.99995539
5400	5.120846682	-2.110959497	61.50409752
5450	4.926590988	-2.161301769	60.79527441
5500	4.716384453	-2.456889796	56.79511986
5550	4.962757735	-2.12584935	61.29359085
5600	4.888079763	-2.154082928	60.89641233
5650	4.600371117	-2.59204608	55.0548257
5700	4.343687331	-2.962460594	50.55381567
5750	4.362464642	-3.128493527	48.65759591
5800	4.588500056	-3.088710244	49.10536863
5850	5.033723799	-2.682081705	53.92520808
5900	4.499510347	-3.21555804	47.69185293
5950	4.248382843	-3.329237798	46.45968064
6000	3.883986331	-3.420711214	45.4913556

WiFi antenna passive data

WiFi antenna pattern

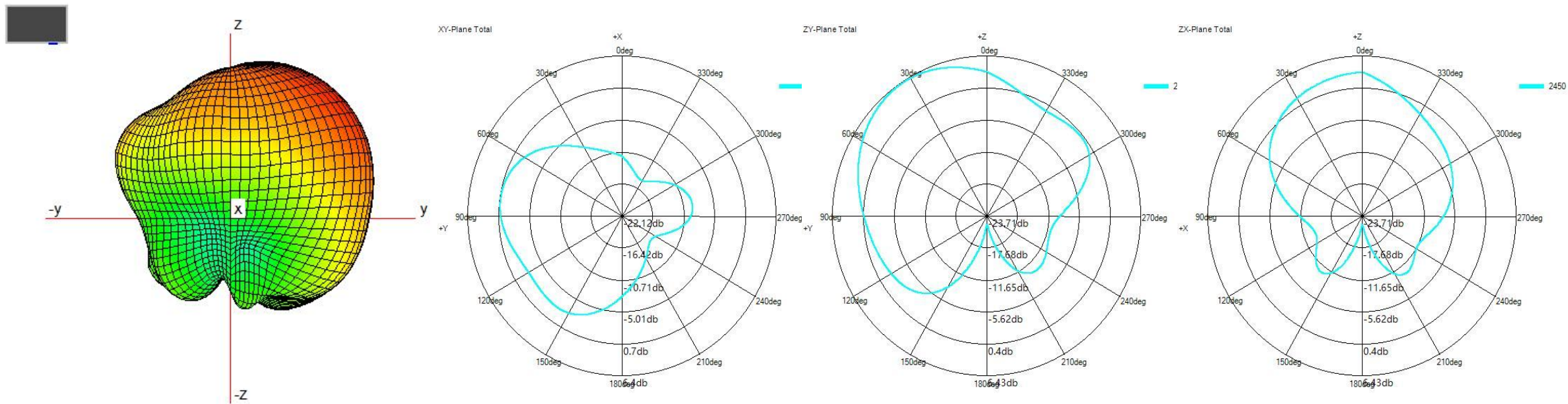
2400MHz



WiFi antenna passive data

WiFi antenna pattern

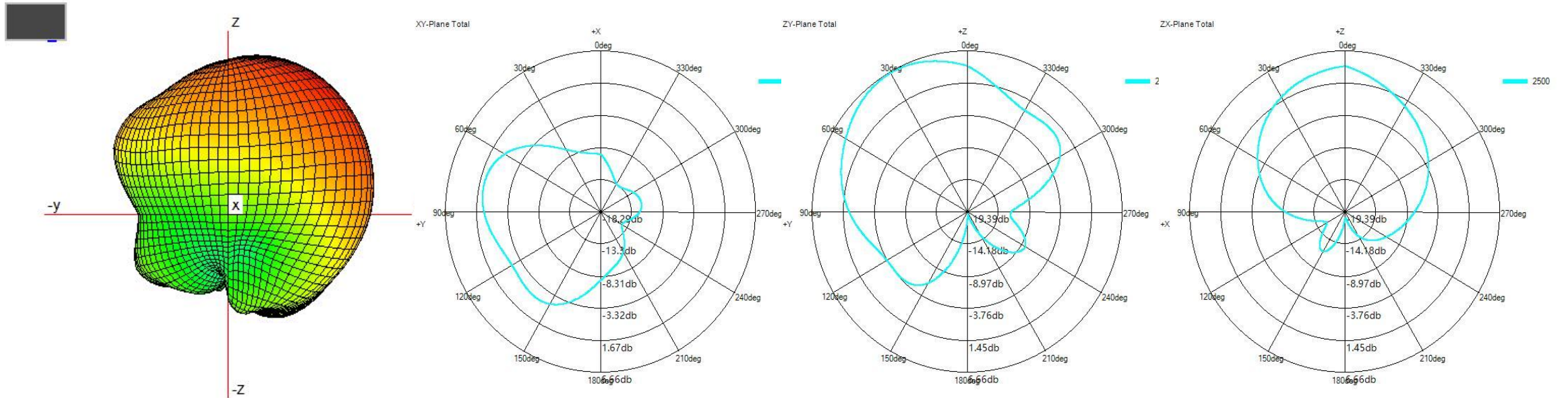
2450MHz



WiFi antenna passive data

WiFi antenna pattern

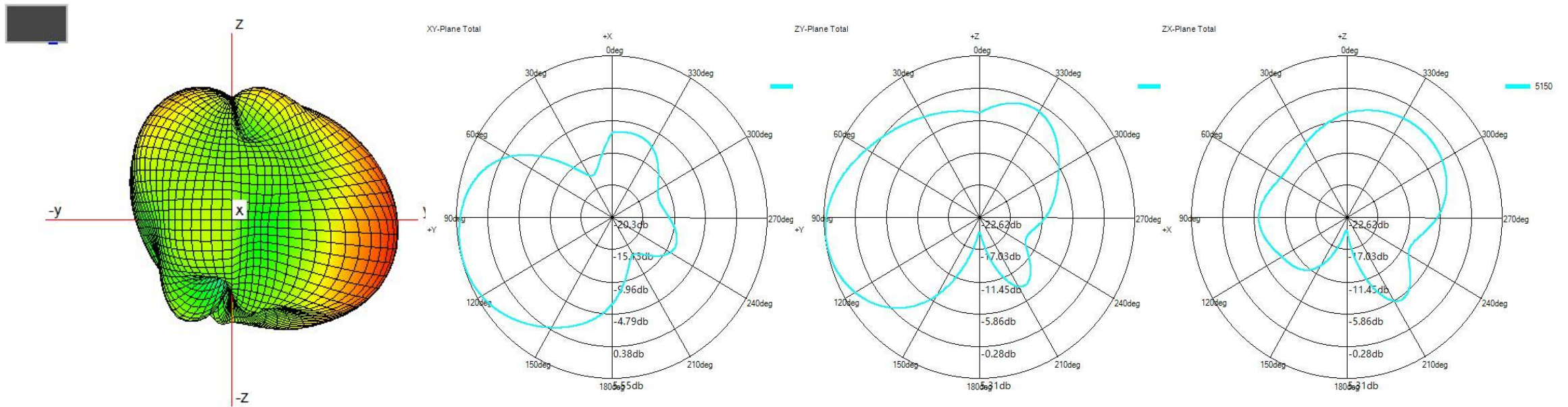
2500MHz



WiFi antenna passive data

WiFi antenna pattern

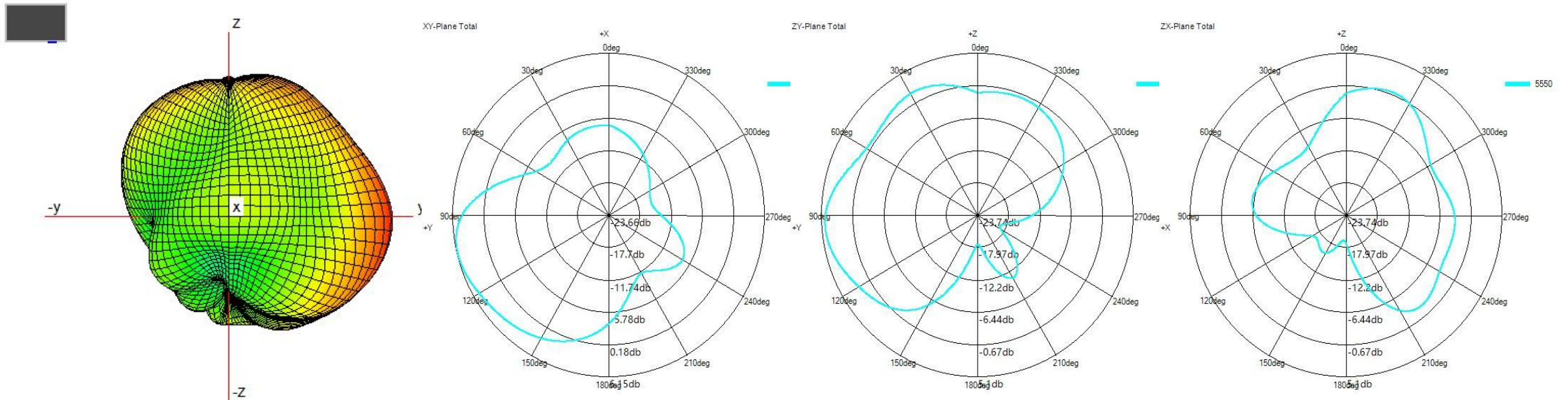
5150MHz



WiFi antenna passive data

WiFi antenna pattern

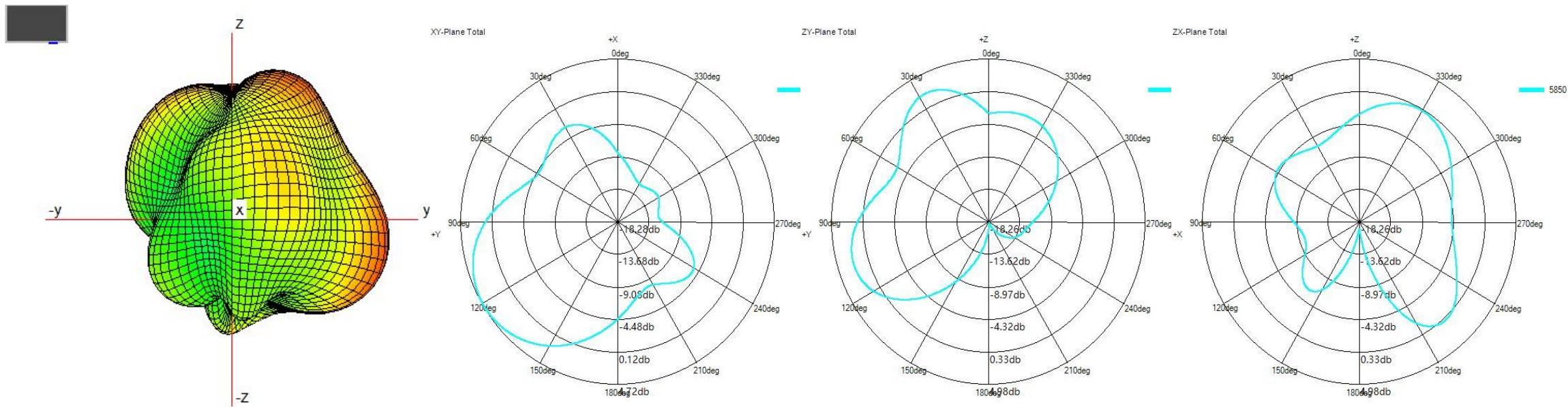
5500MHz



WiFi antenna passive data

WiFi antenna pattern

5850MHz





Five、 Reliability test report

5.1. Salt spray test report

customer	Minrray Industry Co.,Ltd	Part Name	FPC antenna	Date of preparation	2022.9.15
Test items	Test requirements			Measured results	evaluate
Neutral salt spray test	Test process: conduct neutral salt spray test on the hardware on the antenna. In a closed environment of $35\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$, the humidity is more than 85%, and the PH value is within the range of 6.5-7.2. After using $5\% \pm 1\%$ Nacl solution and continuous 24h saline spray, the product surface should be free of rust, discoloration, and coating peeling.			After the test, the product surface shall be free of rust, discoloration and peeling.	qualified
Experiment: Wang Ming			Approved by: Wang Ming		



Antenna test instrument

Darkroom test environment