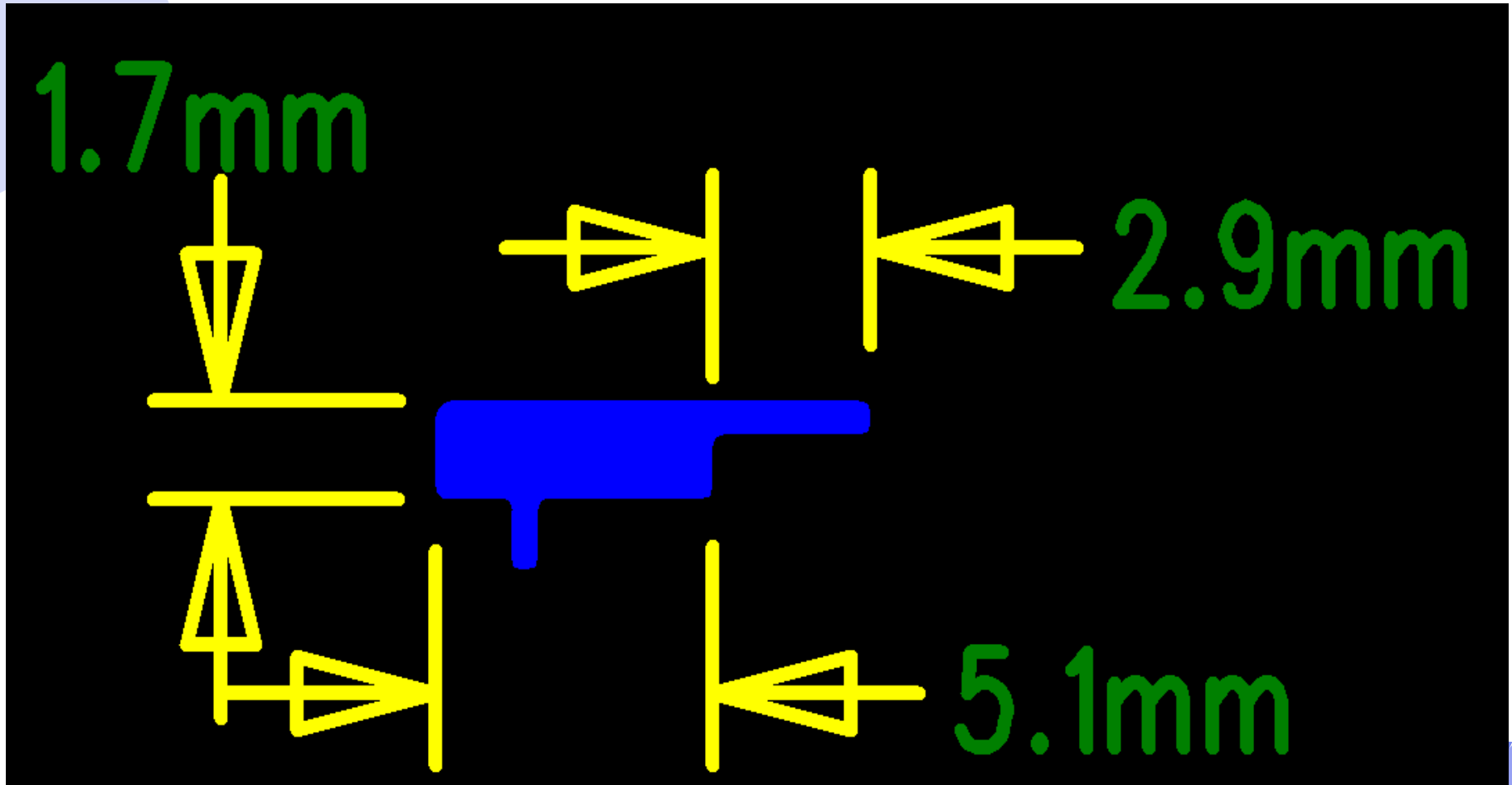


W4 Antenna Specification

Customer	liao yuan
Project	W4
Antenna BAND	WiFi
Product Description	PCB
Product No	

Manufacturer:Shenzhen Xianlin Technology Co., Ltd.
Manufacturer add.:5F, Building C, Laowei No.2 Industrial Zone,
Longhua Subdistrict, Longhua District, Shenzhen, China

Product Overview & Dimension



This report is to measure the performance of BT antenna for **W1**. The antenna operating frequency at (2400–5850MHZ) , All test data are showed as below.

Content

1. Product Overview & Dimension
2. Test system
3. Antenna Matching Network
4. Test Result
 - 4.1 S11 Parameter
 - 4.2 Gain & Efficiency
 - 4.3 Test coordinate
 - 4.4 2D Pattern
 - 4.5 OTA Data
 - 4.6 WiFi Boot measured
5. Antenna Assembly & environmental processing

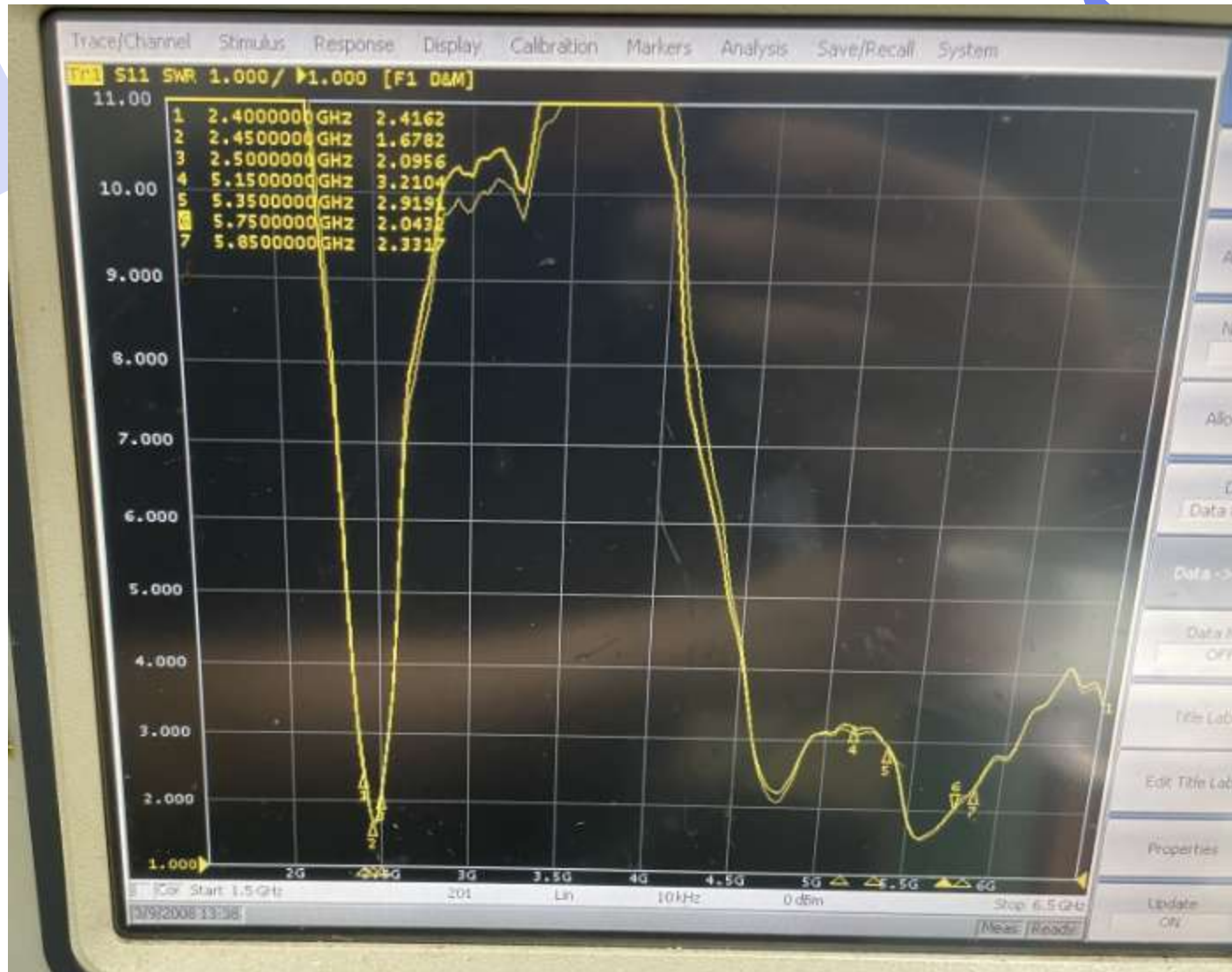
2. Test System

Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & HP 8753
OTA Test	TRP&TIS	CMW500 & CMW270 ETS& FT SG24
Gain & Efficiency	Gain & Efficiency	ETS&FT SG24 Agilent 5071C



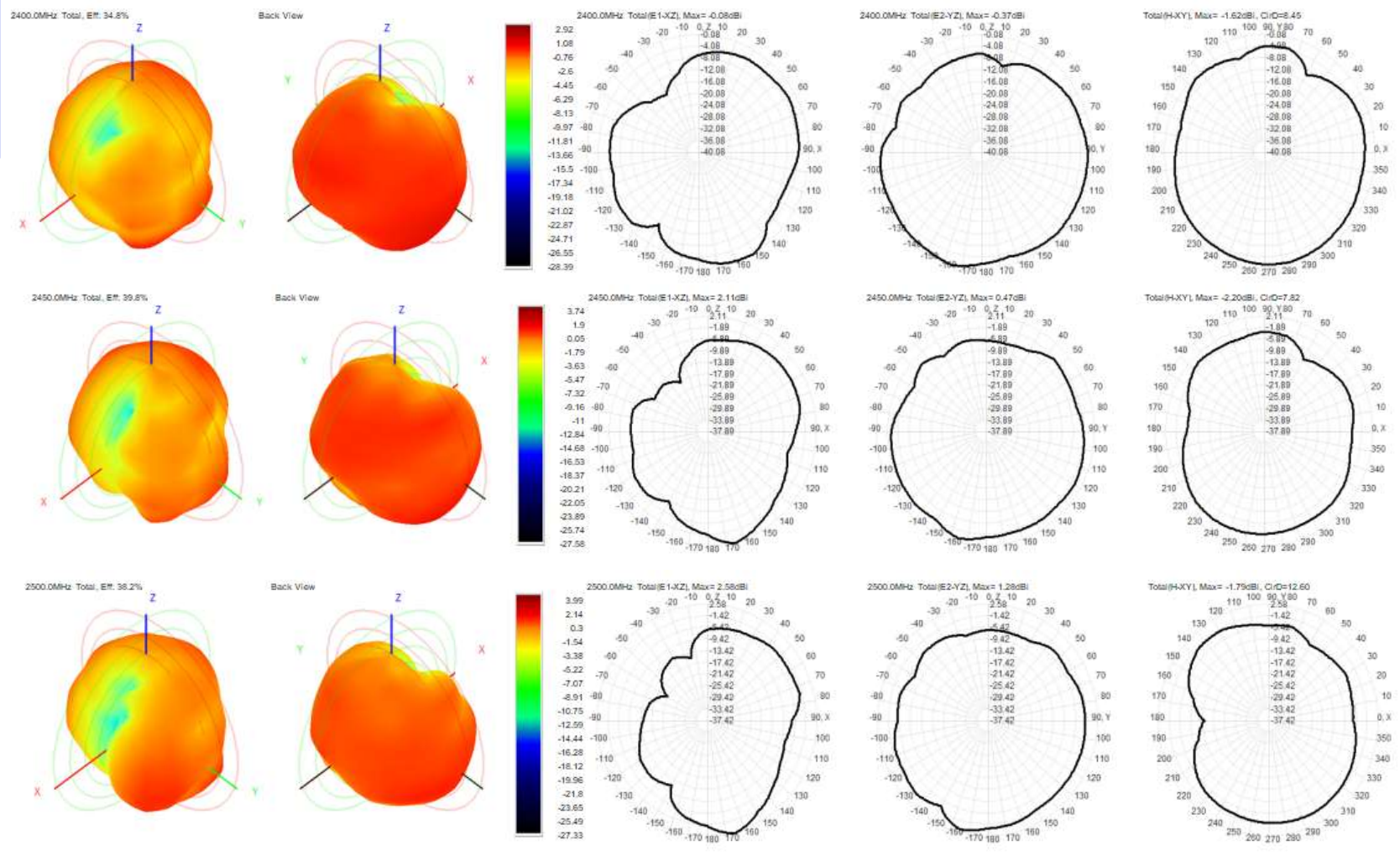
The diagram illustrates the geometry of a circular antenna array. The array consists of 16 elements arranged in a circle. The angle θ (polar angle) is measured from the positive Z -axis (pointing upwards) to the line connecting the center of the array to the element. The angle ϕ (azimuthal angle) is measured in the XY -plane from the positive X -axis (pointing to the left) to the projection of the line connecting the center to the element. The Z -axis is vertical, the X -axis is horizontal to the left, and the Y -axis is horizontal to the right. The diagram shows the array structure, the coordinate system, and the angular definitions for the elements.

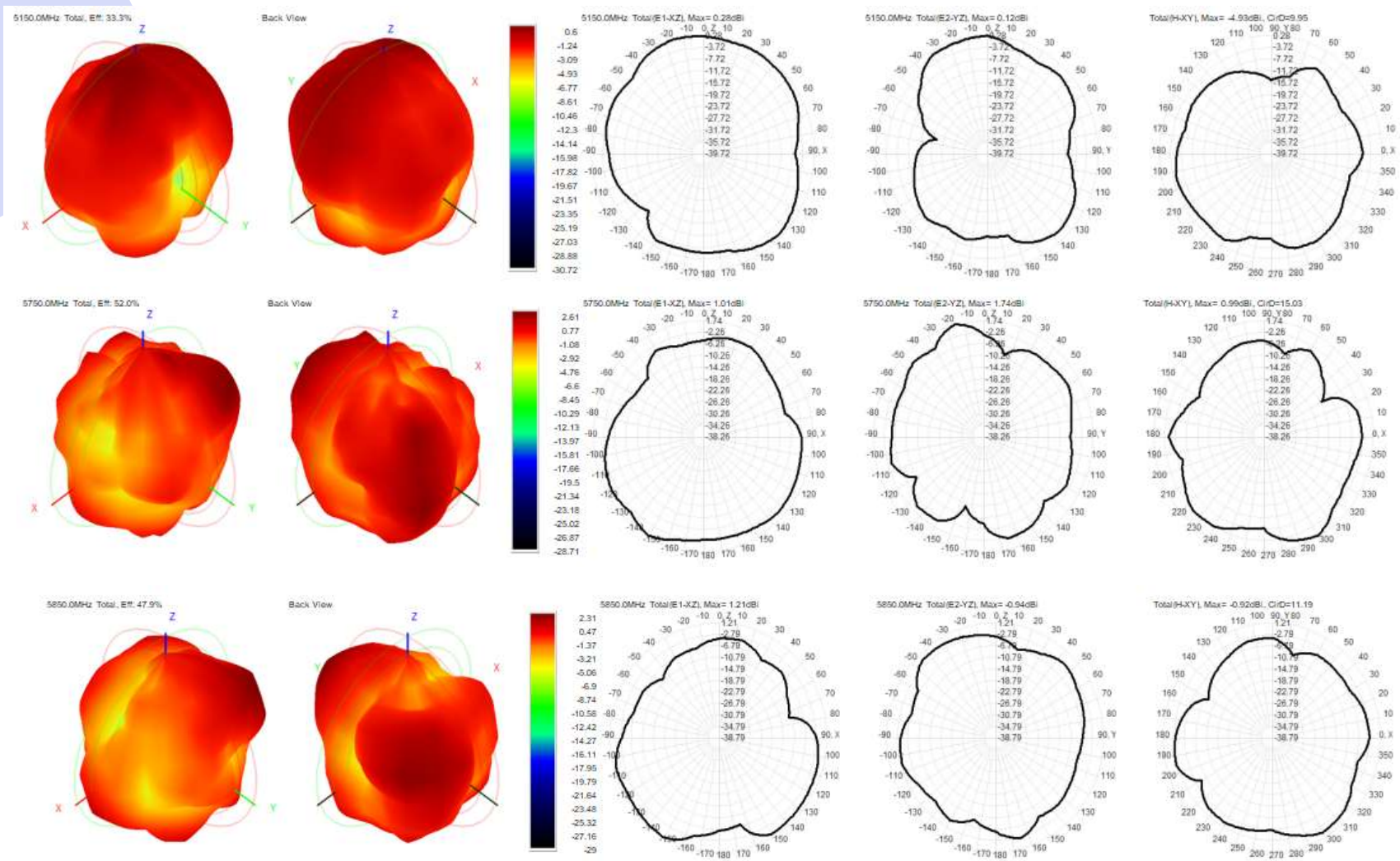
WIFI2.4+5G



天线S11

Frequency ID				1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)				2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)				2.92	3.20	2.83	2.89	3.15	3.74	4.04	4.29	3.83	4.02	3.99
Efficiency (%)				24.79	25.68	26.13	28.35	28.77	29.77	30.65	29.63	27.37	27.64	28.22
12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
5150.0	5200.0	5250.0	5300.0	5350.0	5400.0	5450.0	5500.0	5550.0	5600.0	5650.0	5700.0	5750.0	5800.0	5850.0
0.60	0.57	0.60	0.67	0.66	0.31	0.50	1.18	1.91	2.23	1.76	2.67	2.61	2.42	2.31
23.32	24.39	26.96	25.75	27.13	28.18	29.81	29.20	34.32	38.25	35.10	38.69	32.04	21.14	27.85





Thanks for your comment!

◆ Shenzhen Ning Yi Technology Co., Ltd

◆ 1202B, Building C6, Hengfeng Industrial City, Xixiang, Bao'an District,
Shenzhen