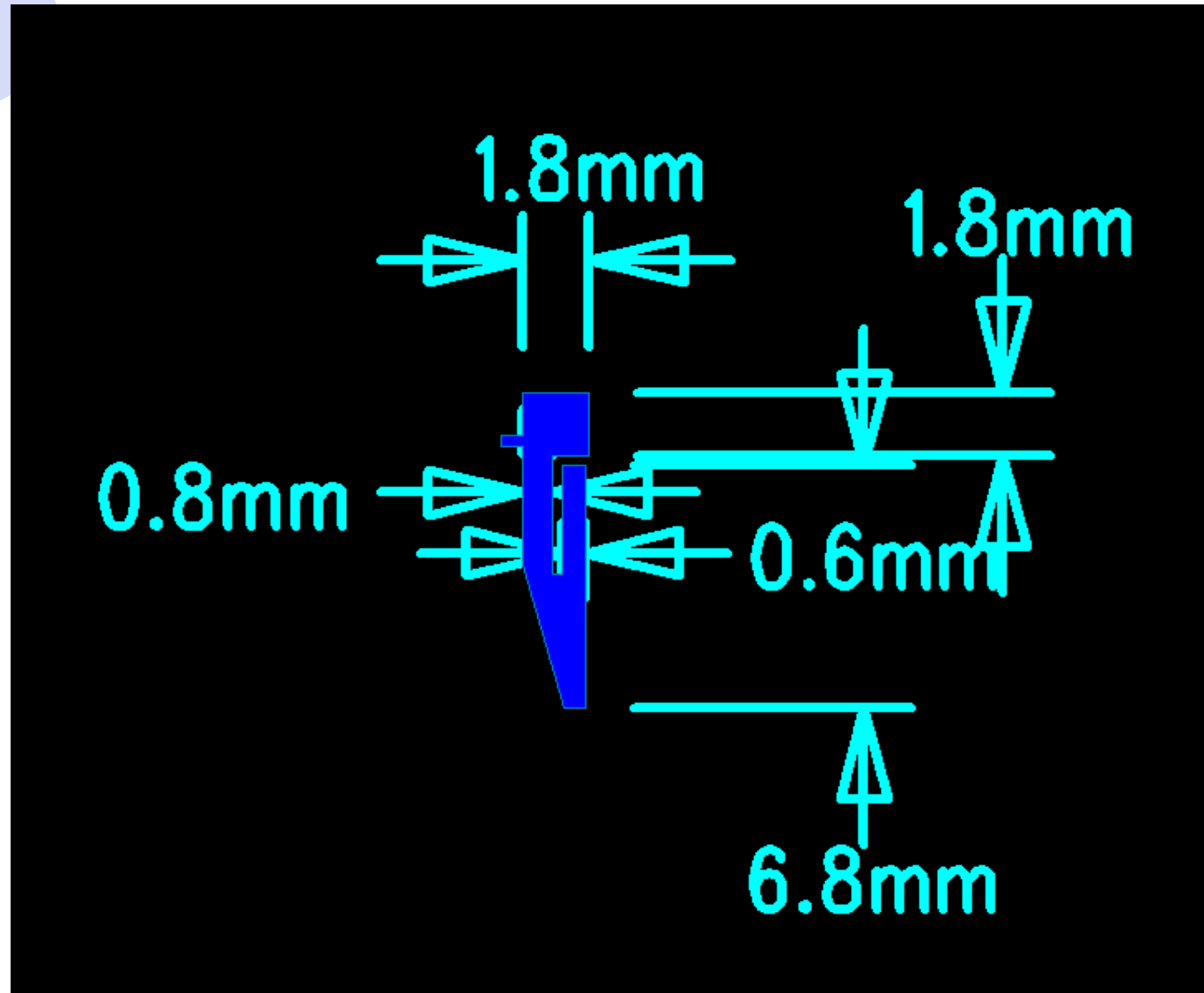


W31 Antenna Test Report

Customer	liao yuan
Project	W31
Antenna BAND	
Product Description	PCB
Product No	

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

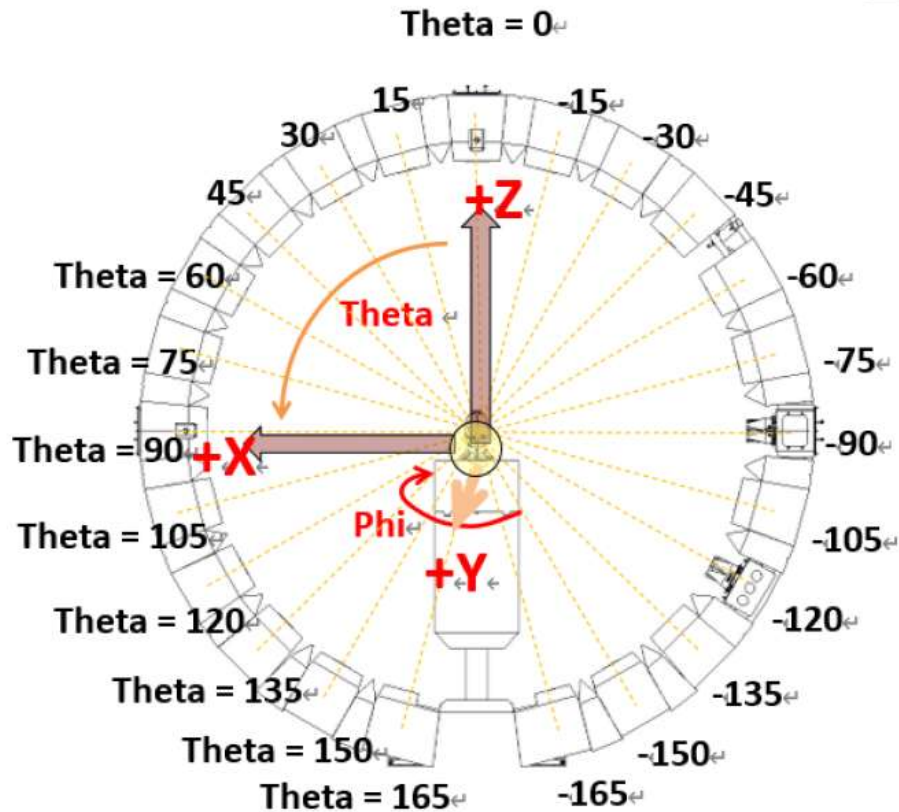
2. Test System

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



Test Result

Sample status & coordinates

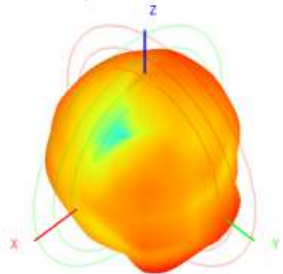




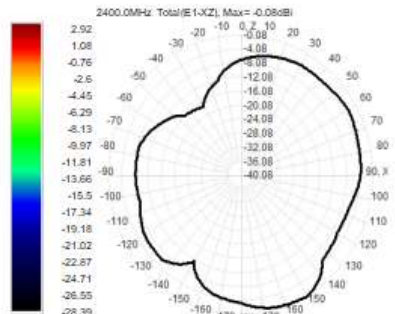
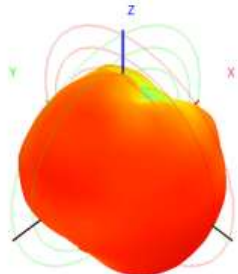
天线S11

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

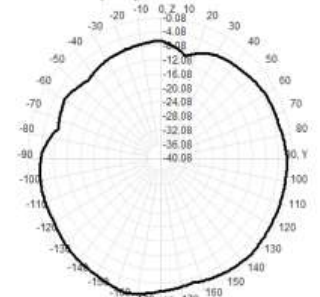
2400.0MHz Total, Eff: 34.8%



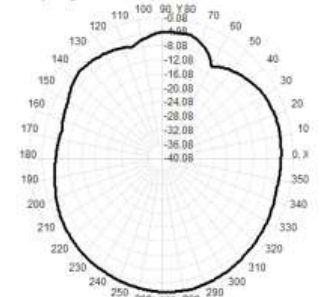
Back View



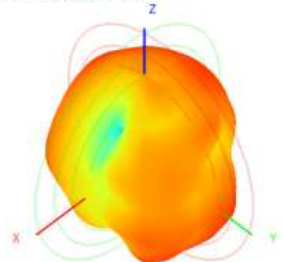
2400.0MHz Total(E2-YZ), Max=-0.37dBi



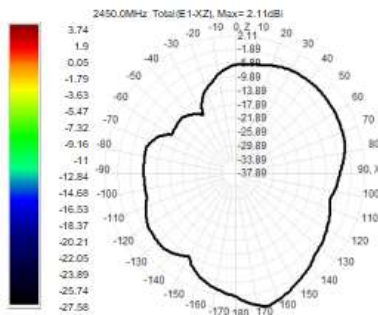
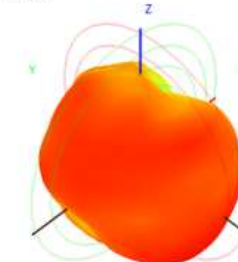
Total(H-XY), Max=-1.62dBi, C/I0=8.45



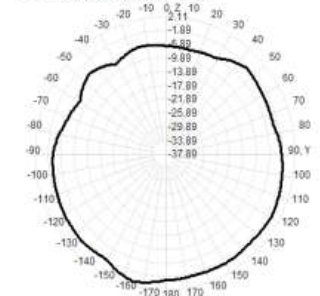
2450.0MHz Total, Eff: 39.8%



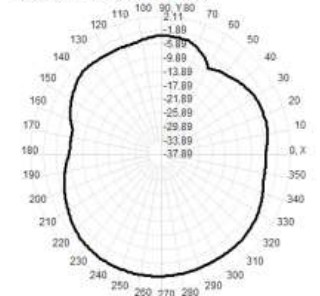
Back View



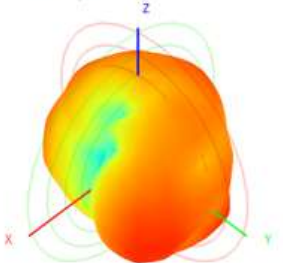
2450.0MHz Total(E2-YZ), Max= 0.47dBi



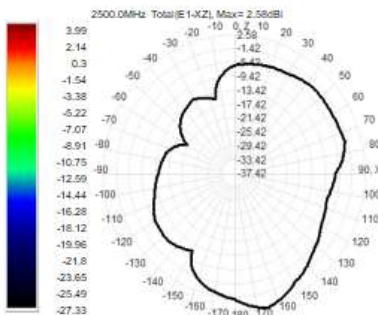
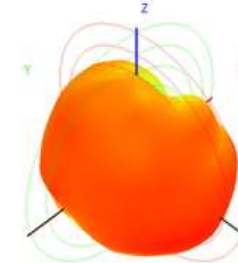
Total(H-XY), Max= -2.20dBi, C/I0=7.82



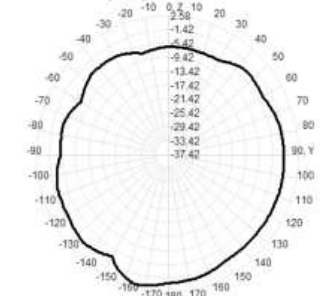
2500.0MHz Total, Eff: 38.2%



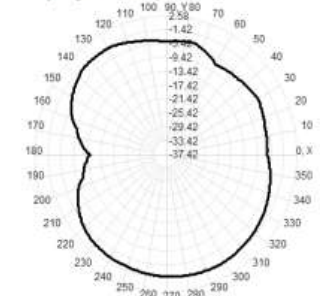
Back View



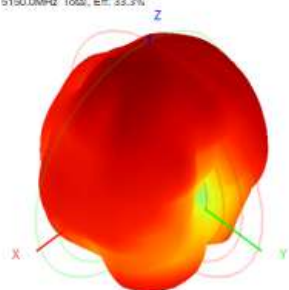
2500.0MHz Total(E2-YZ), Max= 1.28dBi



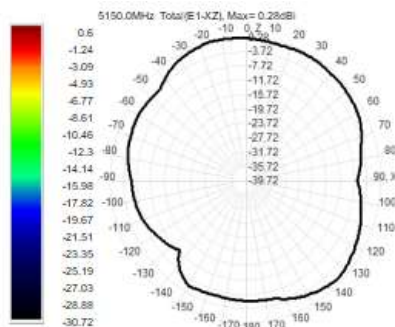
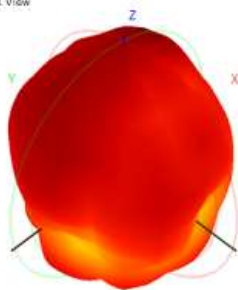
Total(H-XY), Max= -1.79dBi, C/I0=12.60



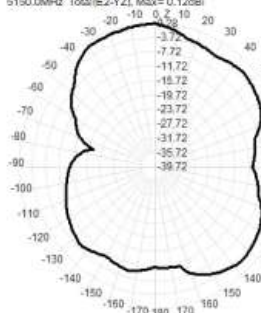
5150.0MHz Total, E# 33.3%



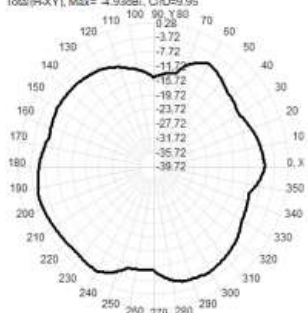
Back View



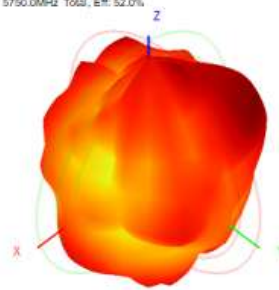
5150.0MHz Total (E2-YZ), Max= 0.12dB



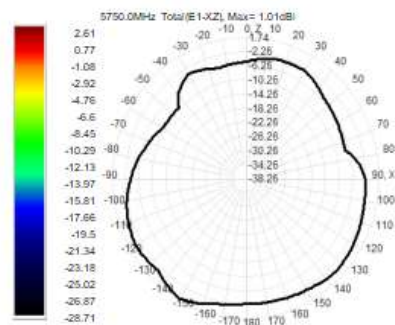
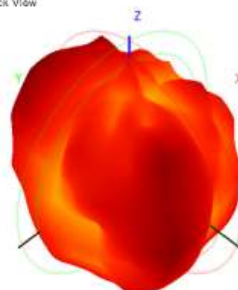
Total (H-XY), Max= -4.93dB, C/I0=9.95



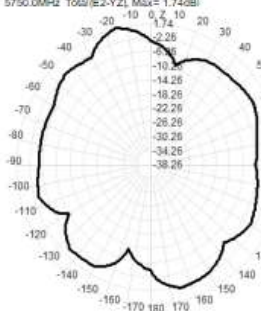
5750.0MHz Total, E# 52.0%



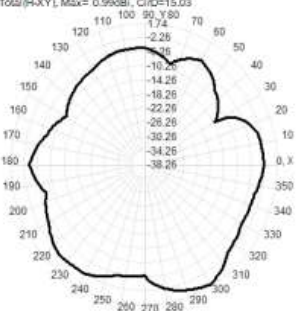
Back View



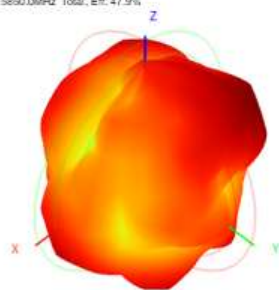
5750.0MHz Total (E2-YZ), Max= 1.74dB



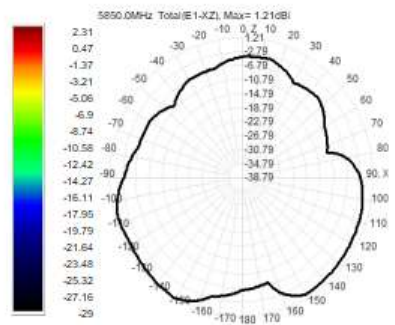
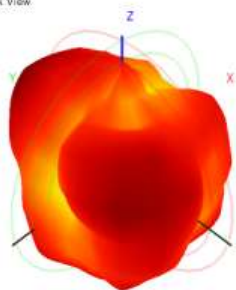
Total (H-XY), Max= 0.99dB, C/I0=15.03



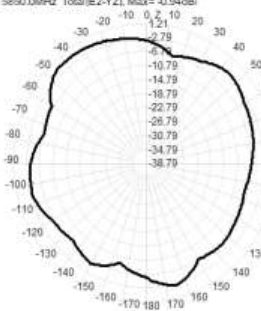
5850.0MHz Total, E# 47.9%



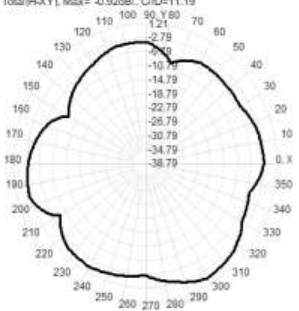
Back View

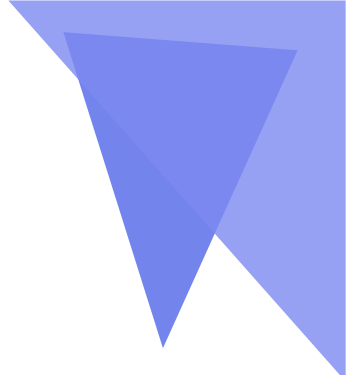


5850.0MHz Total (E2-YZ), Max= -0.94dB



Total (H-XY), Max= -0.92dB, C/I0=11.19





Thanks for your comment!

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Shenzhen

