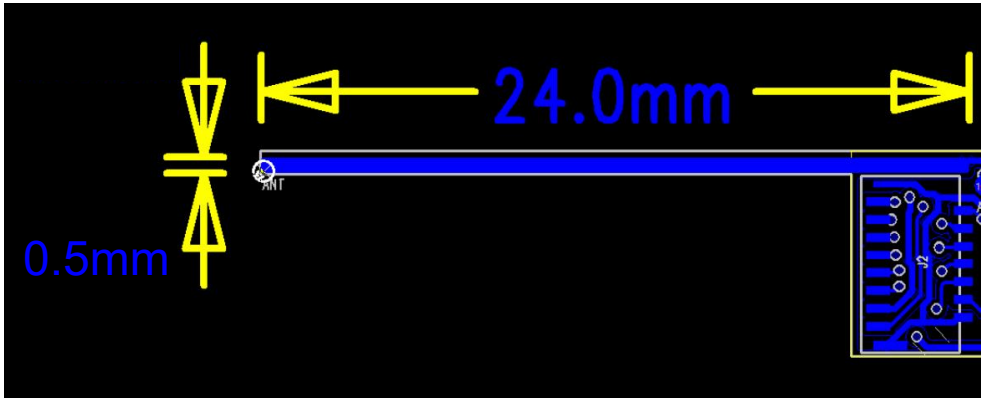
RS01Z Antenna Test Report

Customer	健云互联
Project	RS01Z
Antenna BAND	BT
Product Description	PIFA(PCB ANT)
Product No	V1.0

Product Overview & Dimension



This report is to measure the performance of BT antenna for **RS01Z**. The antennaoperating frequency at (2400-2500MHZ) , All test data are showed as below.

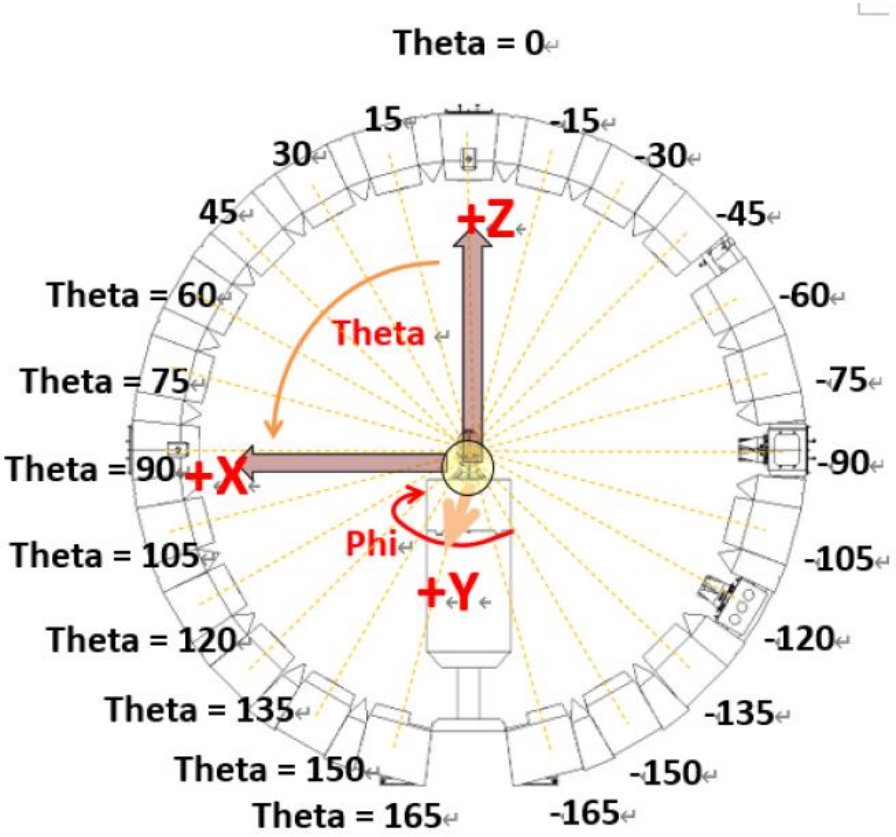
Content

2.Test System

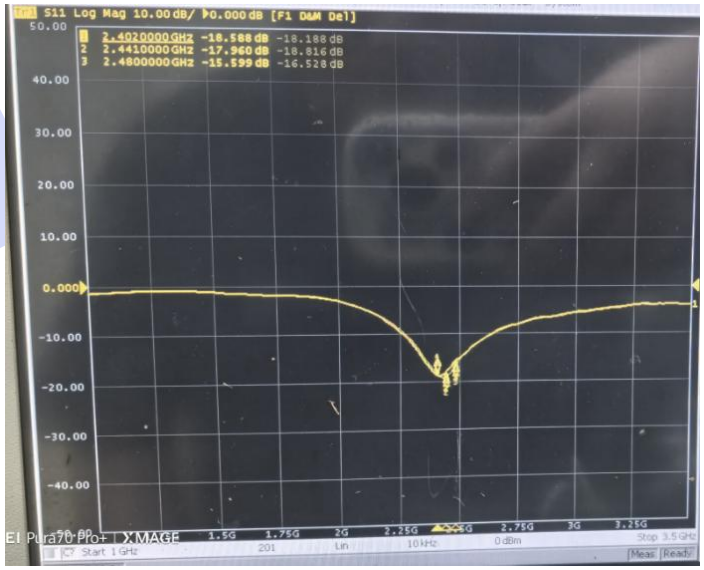
Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & HP 8753
OTA Test	TRP&TIS	CMW500 &CMW270 ETS& FT SG24
Gain & Efficiency	Gain & Efficiency	ETS&FT SG24 Agilent 5071C

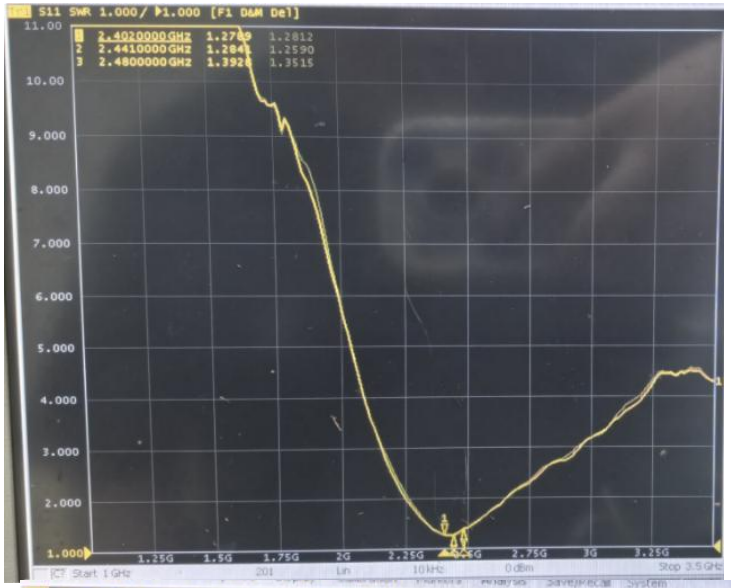
Test Result

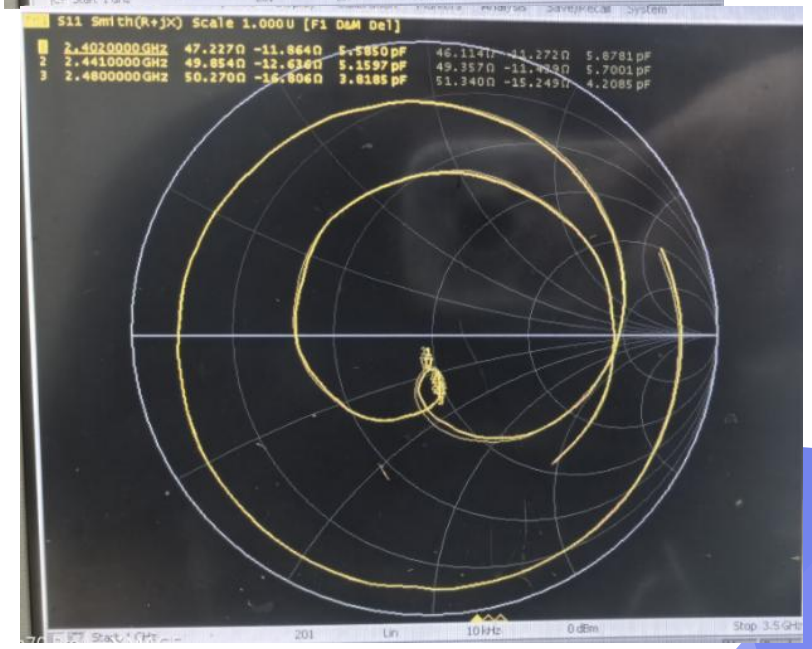
Sample status & coordinates



S11





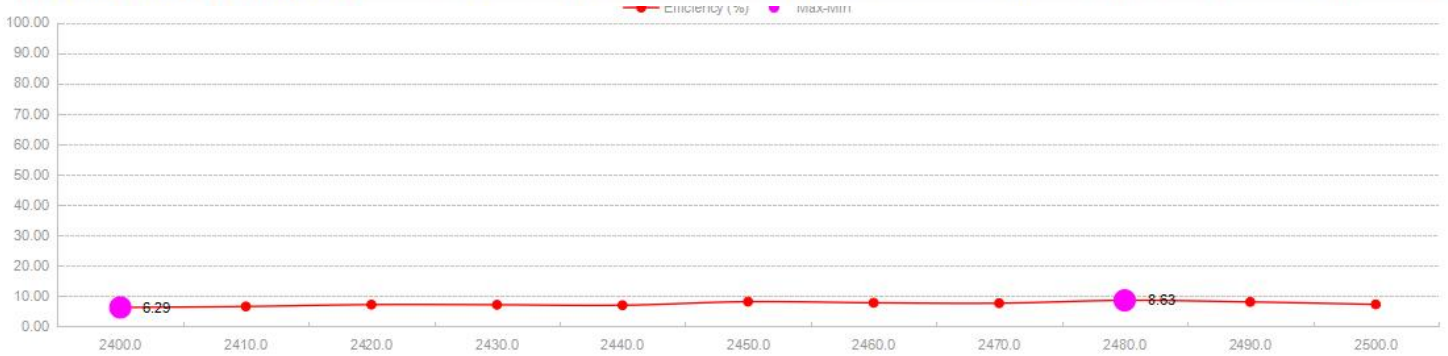


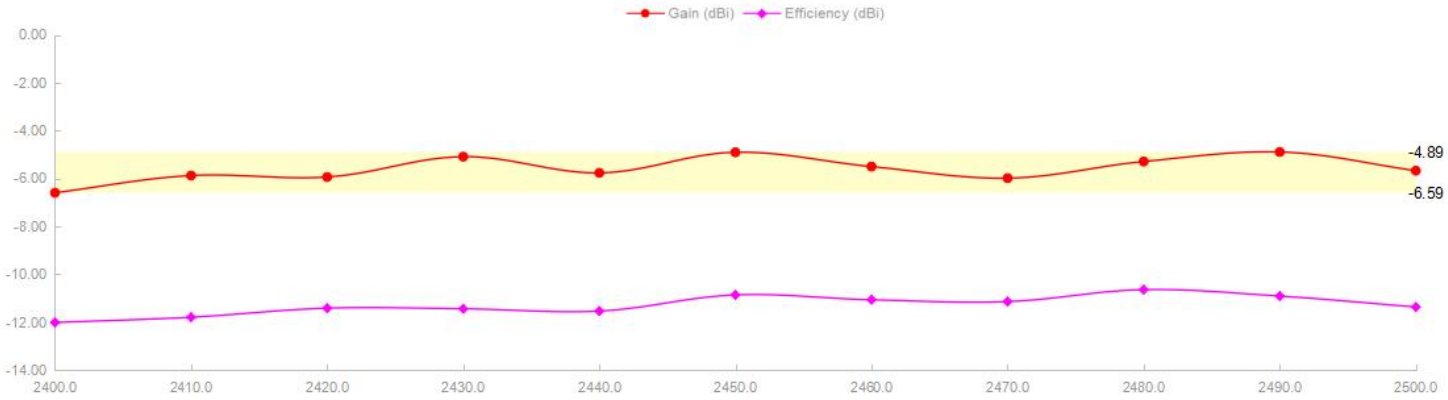
Frequency (MHz)	2400	2450	2500
Smith	47.22	49.85	50.27
Log mag	-18.58	-17.96	-15.59
VSWR	1.27	1.28	1.39

Match network parameters

Suggest using Murata brand high-precision capacitors, resistors, and inductors，The packaging specification is 0201

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
Efficiency (dBi)	-12.01	-11.79	-11.41	-11.44	-11.54	-10.86	-11.06	-11.14	-10.64	-10.91	-11.37
Gain (dBi)	-6.59	-5.88	-5.94	-5.09	-5.76	-4.90	-5.50	-5.98	-5.29	-4.89	-5.67
Efficiency (%)	6.29	6.62	7.22	7.18	7.02	8.20	7.83	7.70	8.63	8.11	7.30
Directivity (dB)	5.42	5.92	5.48	6.35	5.77	5.96	5.56	5.15	5.35	6.02	5.69
Peak Gain Position (Theta)	135.00	135.00	120.00	120.00	120.00	120.00	105.00	120.00	120.00	120.00	120.00
Peak Gain Position (Phi)	195.00	165.00	60.00	60.00	75.00	180.00	165.00	210.00	60.00	210.00	180.00
Efficiency ThetaPol (%)	3.03	3.26	3.37	3.44	3.27	3.91	3.86	4.07	4.57	4.24	3.78
Efficiency PhiPol (%)	3.26	3.35	3.85	3.74	3.75	4.29	3.97	3.62	4.05	3.87	3.52
Upper Hem. Efficiency (%)	3.12	3.15	3.44	3.16	3.03	3.54	3.37	3.47	4.14	3.84	3.49
Lower Hem. Efficiency (%)	3.17	3.47	3.78	4.01	3.99	4.66	4.45	4.22	4.49	4.27	3.81

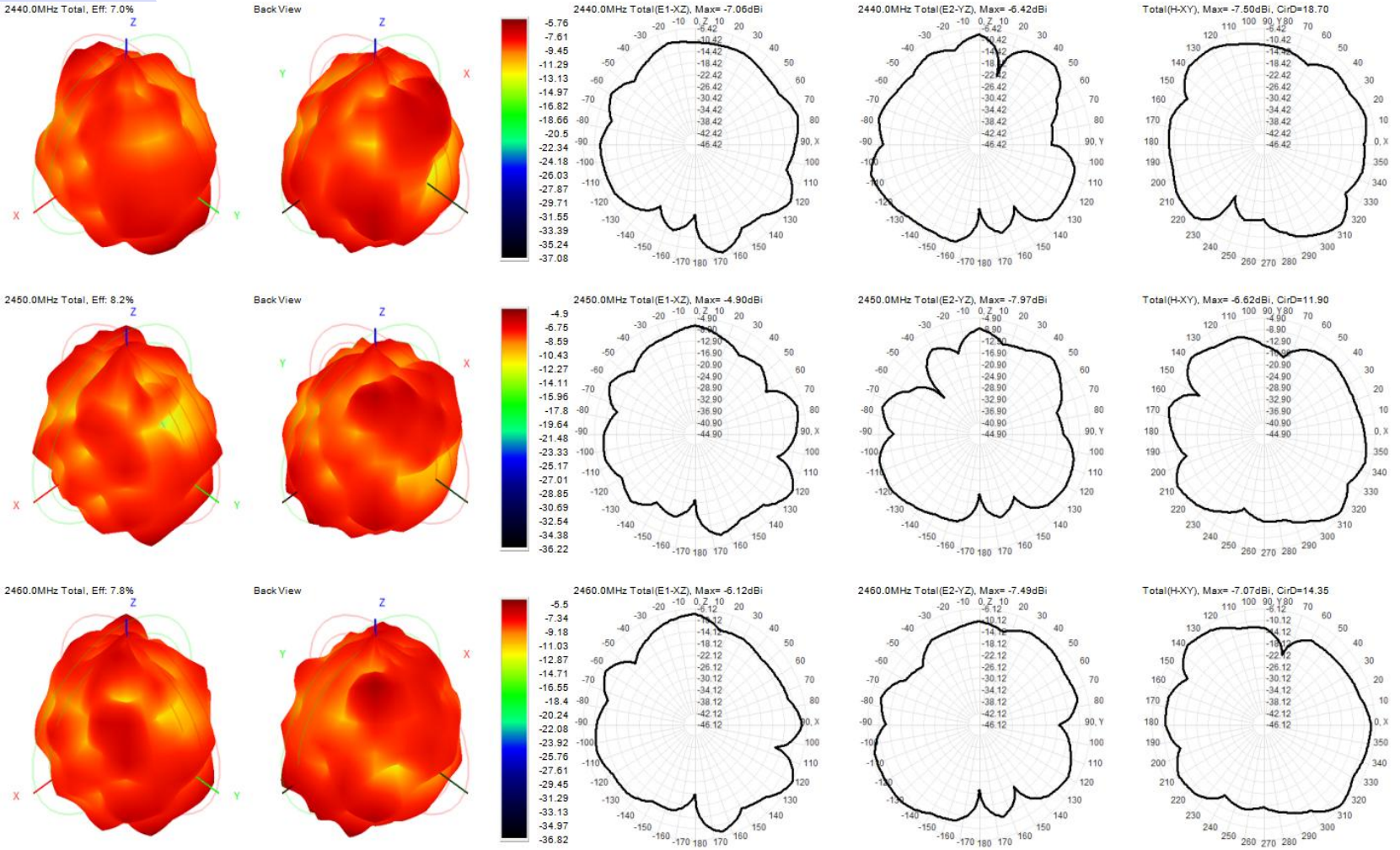


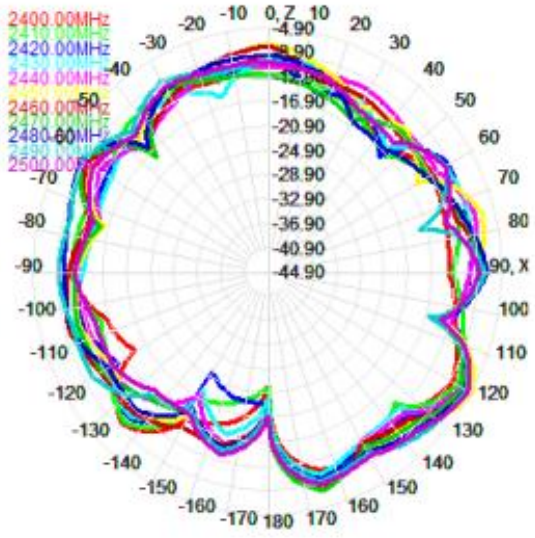


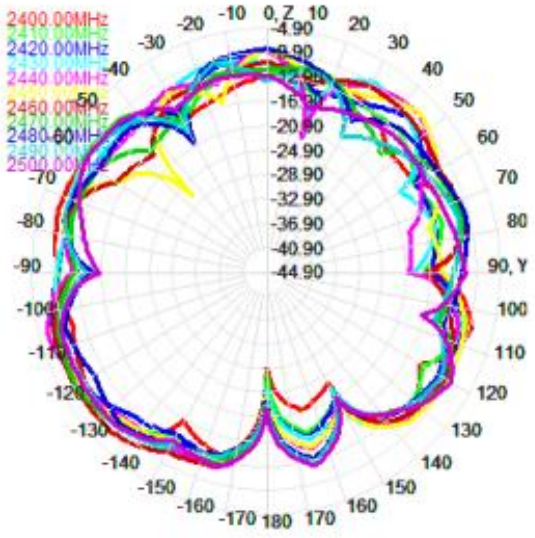
OTA DATA-BT ANT

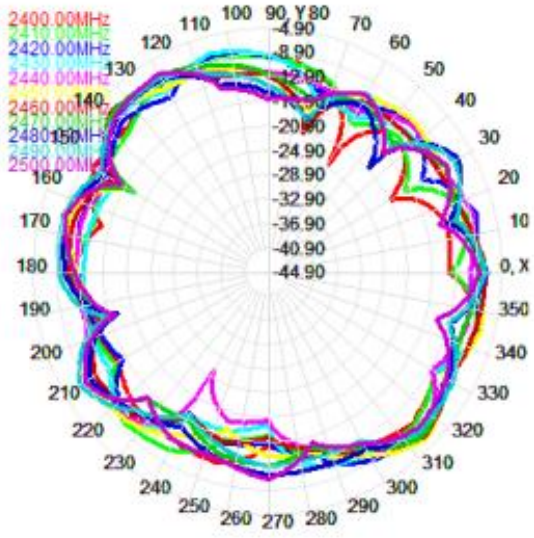
Shenzhen Hetuo Technology Co., Ltd

3D Pattern




2400.00MHz
2420.00MHz
2440.00MHz
2460.00MHz
2480.00MHz
2500.00MHz
0, Z
90, X
-4.90
-8.90
-12.90
-16.90
-20.90
-24.90
-28.90
-32.90
-36.90
-40.90
-44.90


2400.00MHz
2420.00MHz
2440.00MHz
2460.00MHz
2480.00MHz
2500.00MHz
0, Z
90, Y
-4.90
-8.90
-12.90
-16.90
-20.90
-24.90
-28.90
-32.90
-36.90
-40.90
-44.90


2400.00MHz
2420.00MHz
2440.00MHz
2460.00MHz
2480.00MHz
2500.00MHz
90, Y
0, X
-4.90
-8.90
-12.90
-20.90
-24.90
-28.90
-32.90
-36.90
-40.90
-44.90

Thanks for your comment!

- Shenzhen Hetuo Technology Co., Ltd
- 1202B, Building C6, Hengfeng Industrial City, Xixiang, Bao'an District, Shenzhen
- DT;15302757983