



香港鑫恒陽股份有限公司
HongKong Xinghengyang Stock Co., Ltd.
深圳市鑫恒阳科技有限公司
ShenZhen XinHengYang Technology co., Ltd



Xinhengyang antenna test data report

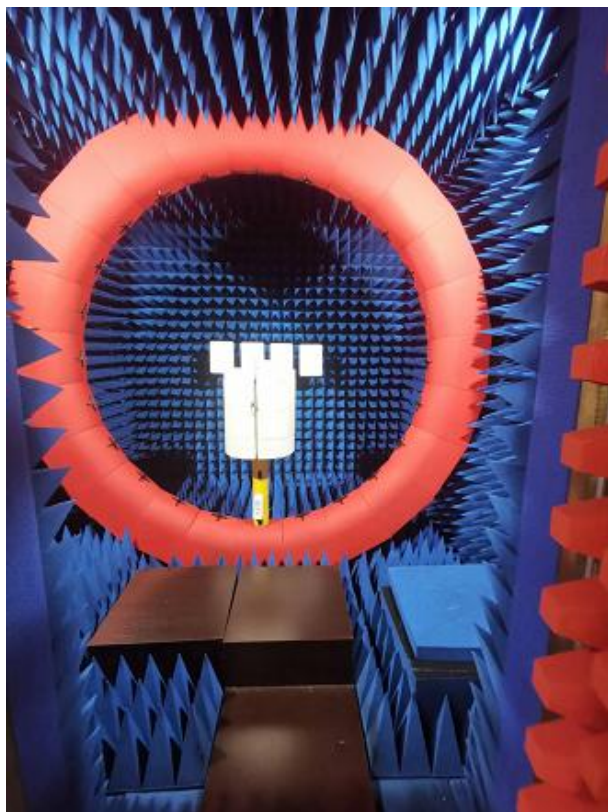
CUSTOMER NAME:	ZHIXIN
PRODUCT NAME:	EM8
XIN HENG YANG P/N:	FPC
WRITED:	SHIRONG.TANG
DATE:	2023/06/28

Catalogue

1. Test the dark room profile
2. Machine table pictures
3. Motherboard matching
4. Passive data (Return Loss & VSWR)
5. Passive data (Efficiency & Average gain)
6. Passive data (Field plot)
7. OTA active data
8. Antenna assembly

1. Test the dark room profile

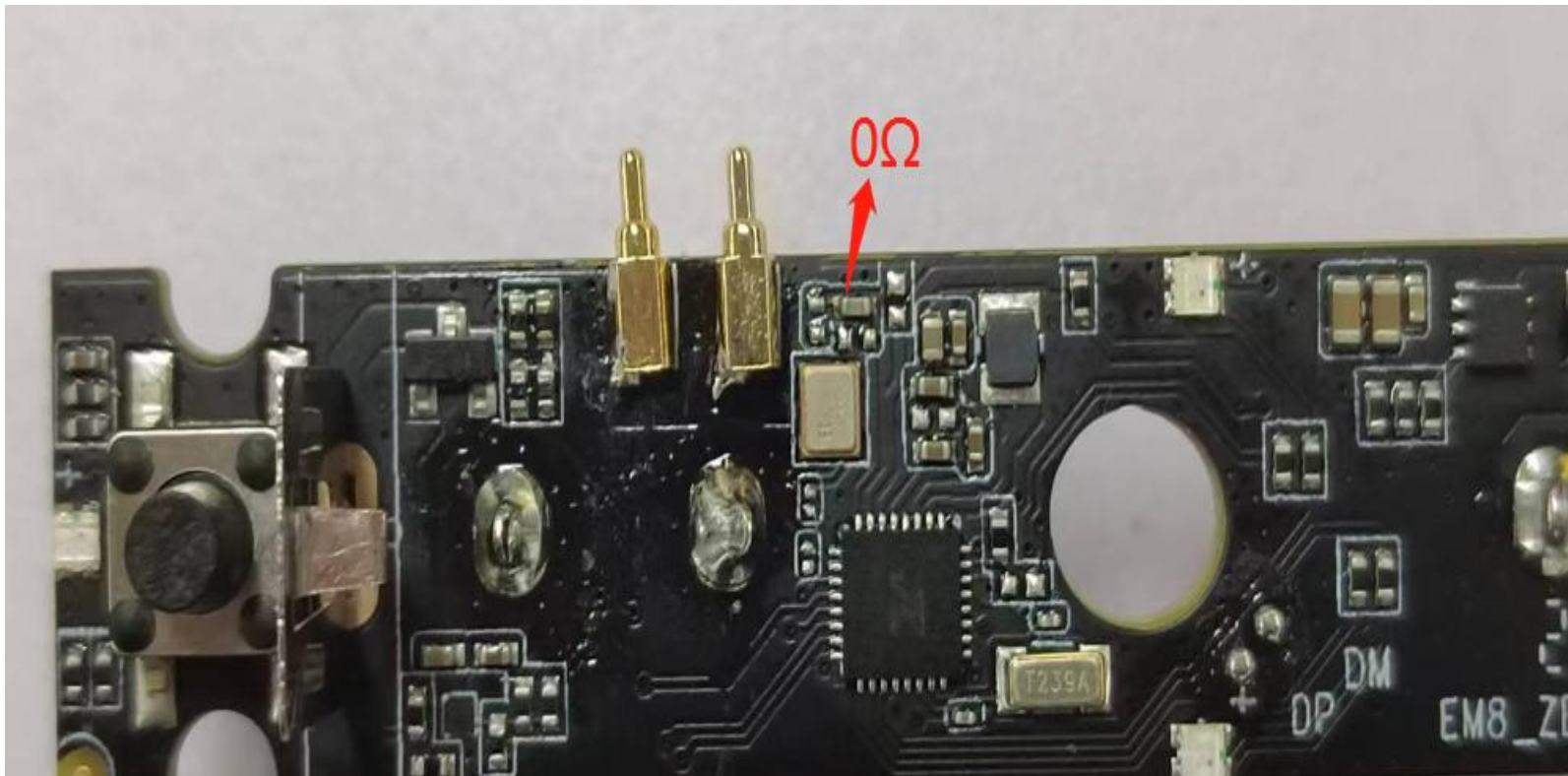
1. Active test: Support 2.3.4.5G multi-mode measurement NB-IoT, eMTC, CAT-1, Bluetooth1-5, WIFI802.11 abgn, measurable TRP TIS
2. Passive test: testable gain and efficiency
3. TWS headset test the head model full set



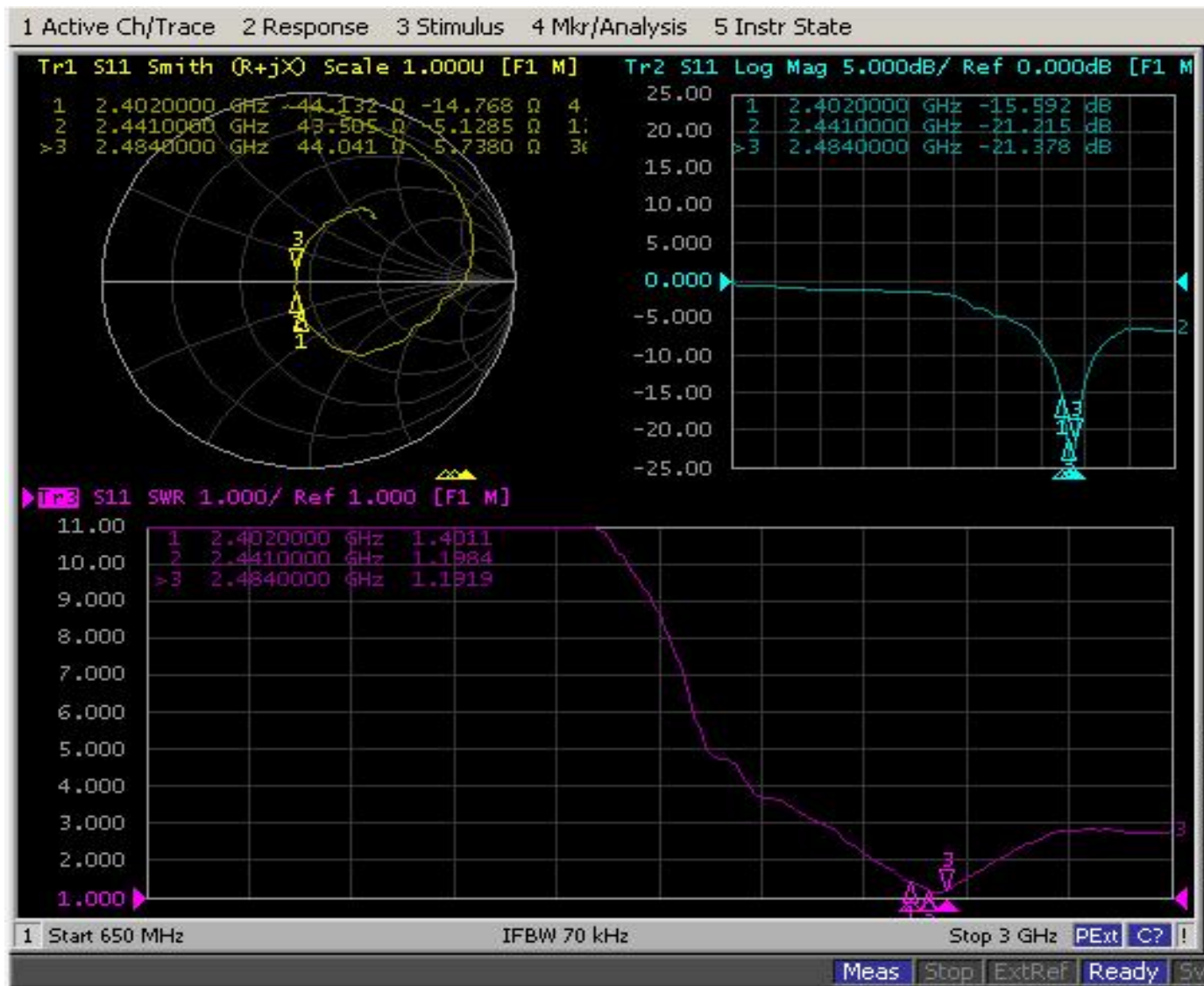
2. Machine table pictures



3. Main board matching circuit



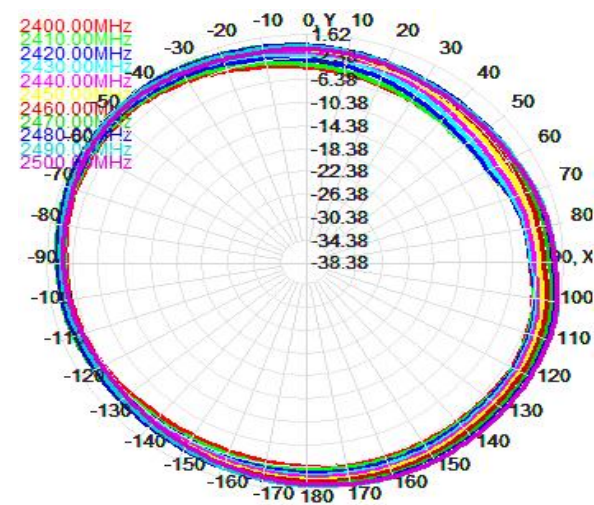
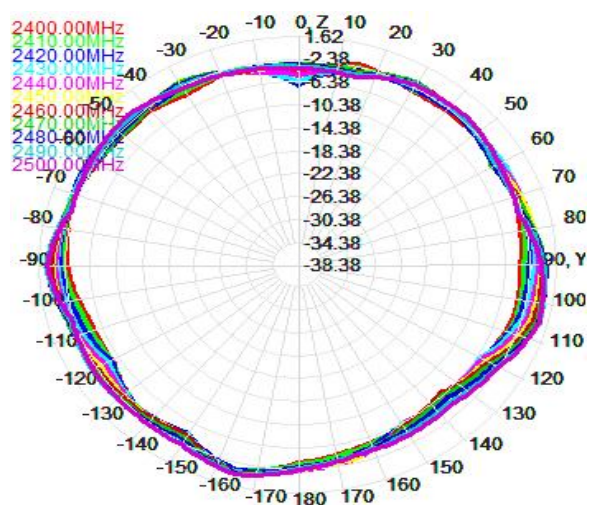
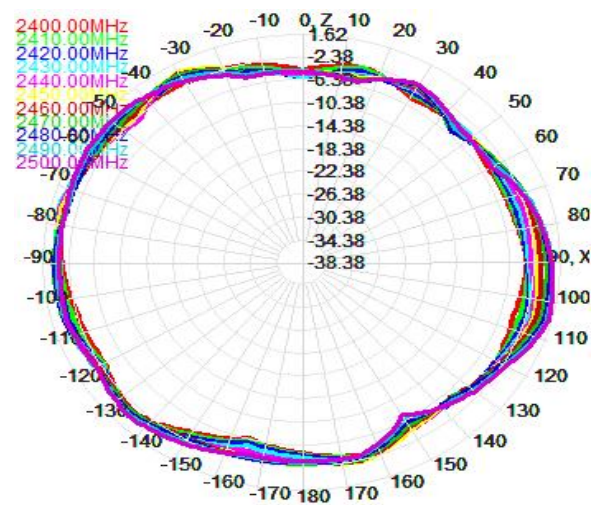
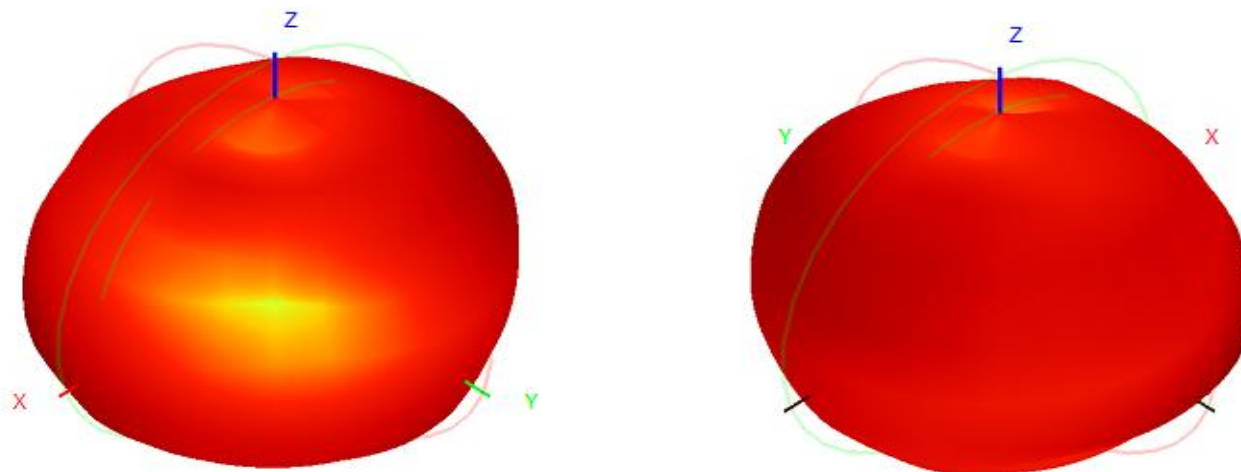
4.1 Passive Data (Return Loss & VSWR)–Relay station





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)	-3.14	-2.87	-2.70	-2.48	-2.41	-2.21	-2.16	-1.91	-1.81	-1.69	-1.69
Gain (dBi)	0.61	0.76	0.84	0.99	0.87	0.97	1.16	1.42	1.37	1.60	1.62
Efficiency (%)	48.52	51.66	53.73	56.45	57.43	60.09	60.76	64.37	65.94	67.78	67.75
Efficiency (dB)	0.75	0.85	0.84	0.95	0.88	0.98	0.99	0.94	0.95	0.98	0.98

6.1 Passive data (2400–2500 MHz field pattern)–Relay station



7. OTA active data-Relay station

Free space			
BAND	Channel	TRP	TIS
BLE	0	-0.08	-75.11
	20	-1.12	-75.90
	39	-2.23	-71.45

Transduction of data			
BAND	Channel	MAX	MIN
BLE	0	-0.50	-84
	20	-0.38	-84
	39	-0.55	-84

8. Antenna assembly

