

Antenna Test Report

Shenzhen Guangtong Century Electronic Technology Co., Ltd.

Room 308, Building A4, Hegang Industrial Zone, No.41, Wuhe
Avenue South, Bantian Longgang District, Shenzhen 518129, China

Customer	
Project	TS19_1
Antenna Revision	A0
Product Description	PCB
Product No	

Prepared by : Zhao Ying jun

Checked by : Grant Dou

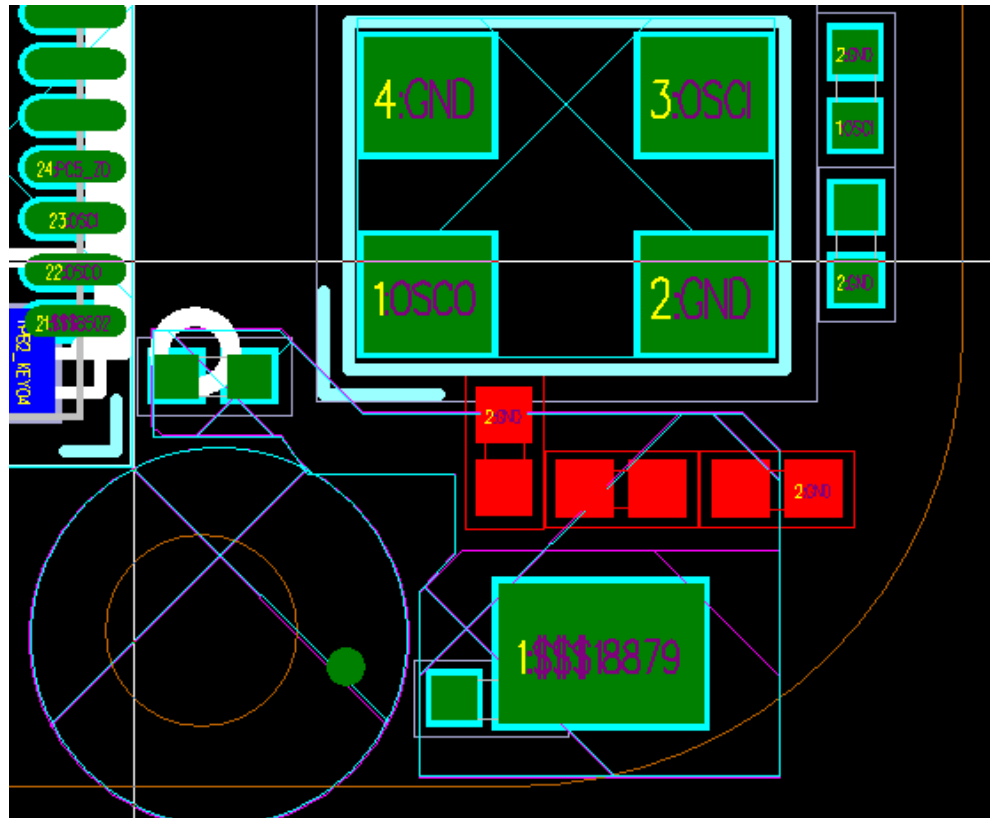
Purpose

This report is to measure the performance of *p'c'b* antenna for 台德—BT256. All test data are shown as below.

Content

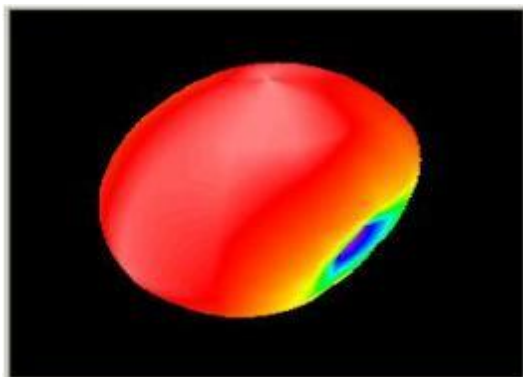
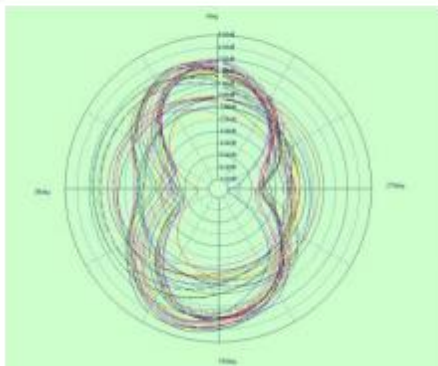
- 1: Product Overview & Dimension
- 2: Test Result
 - 2.1 Test System
 - 2.2 Antenna Matching Network
 - 2.3 VSWR
 - 2.4 Gain & Efficiency
 - 2.5 3D Data
3. Conclusion

1. Product Overview & Dimension Antenna

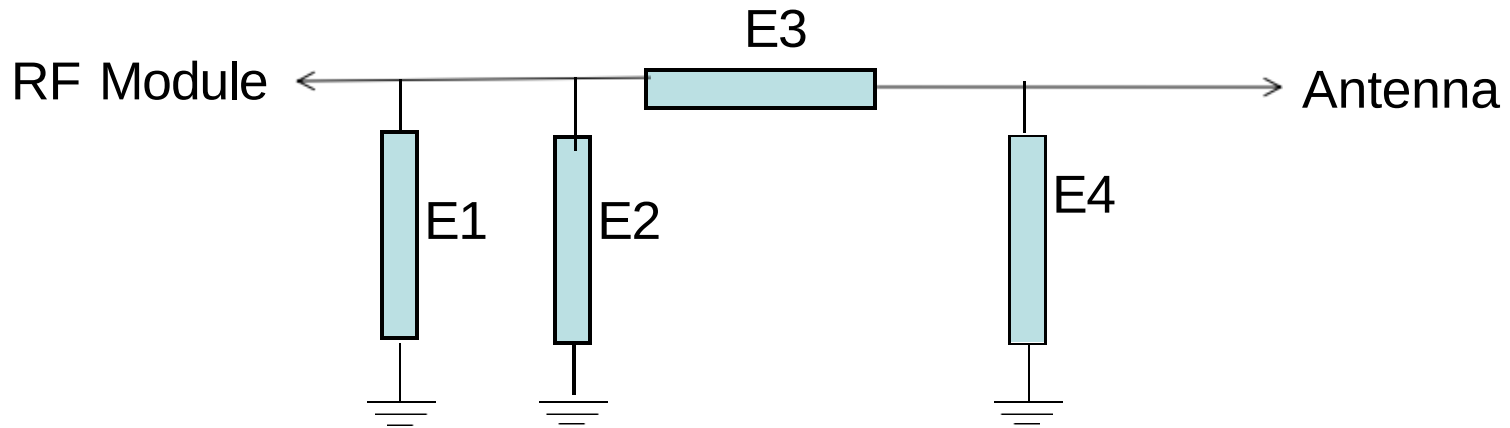


2. Test System

Sequence Number	Test Item	equipment
1. S parameter	VSWR	Agilent 5071C & Agilent 5062A
2. OTA Test	TRP&TIS	Agilent 8960 E5515C& Agilent 4438C&CMW500 &CMW270 ETS&SATIMO
3. Gain & Efficiency	Gain & Efficiency	ETS&SATIMO Agilent 5071C

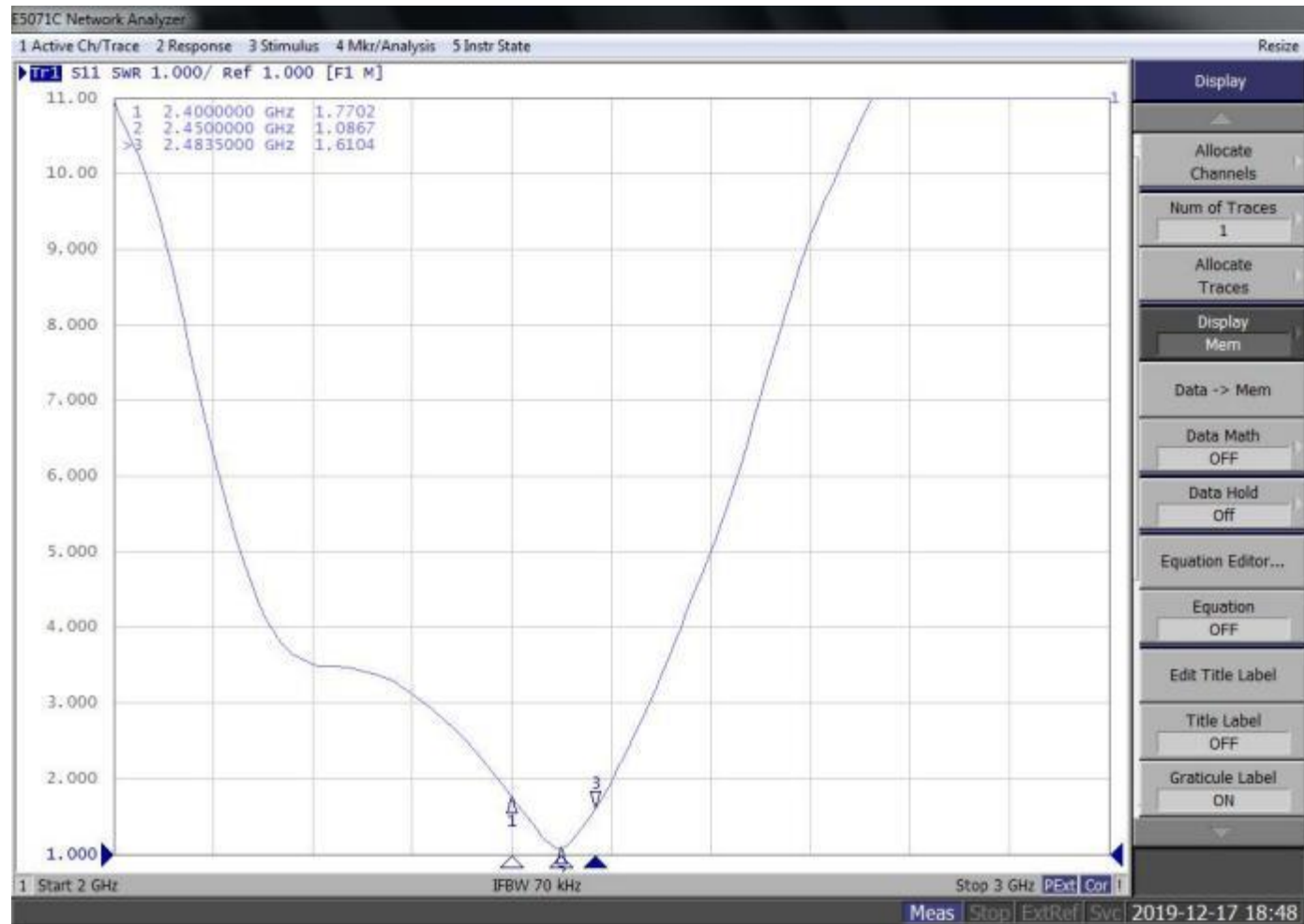


2.1 Antenna Matching Network

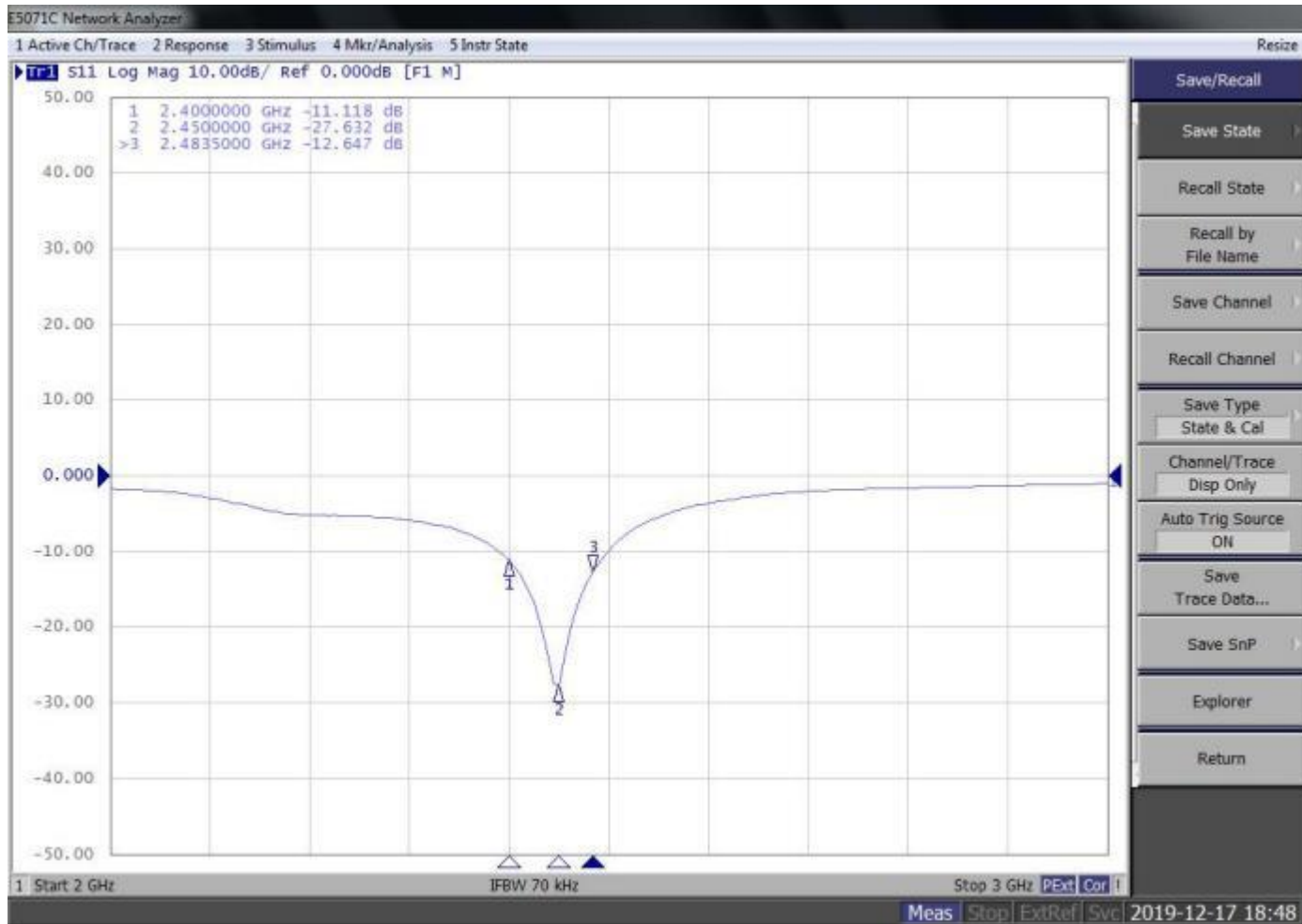


Element	Value
E1(0402)	NA
E2(0402)	NA
E3(0402)	1.5PF
E3(0402)	NA

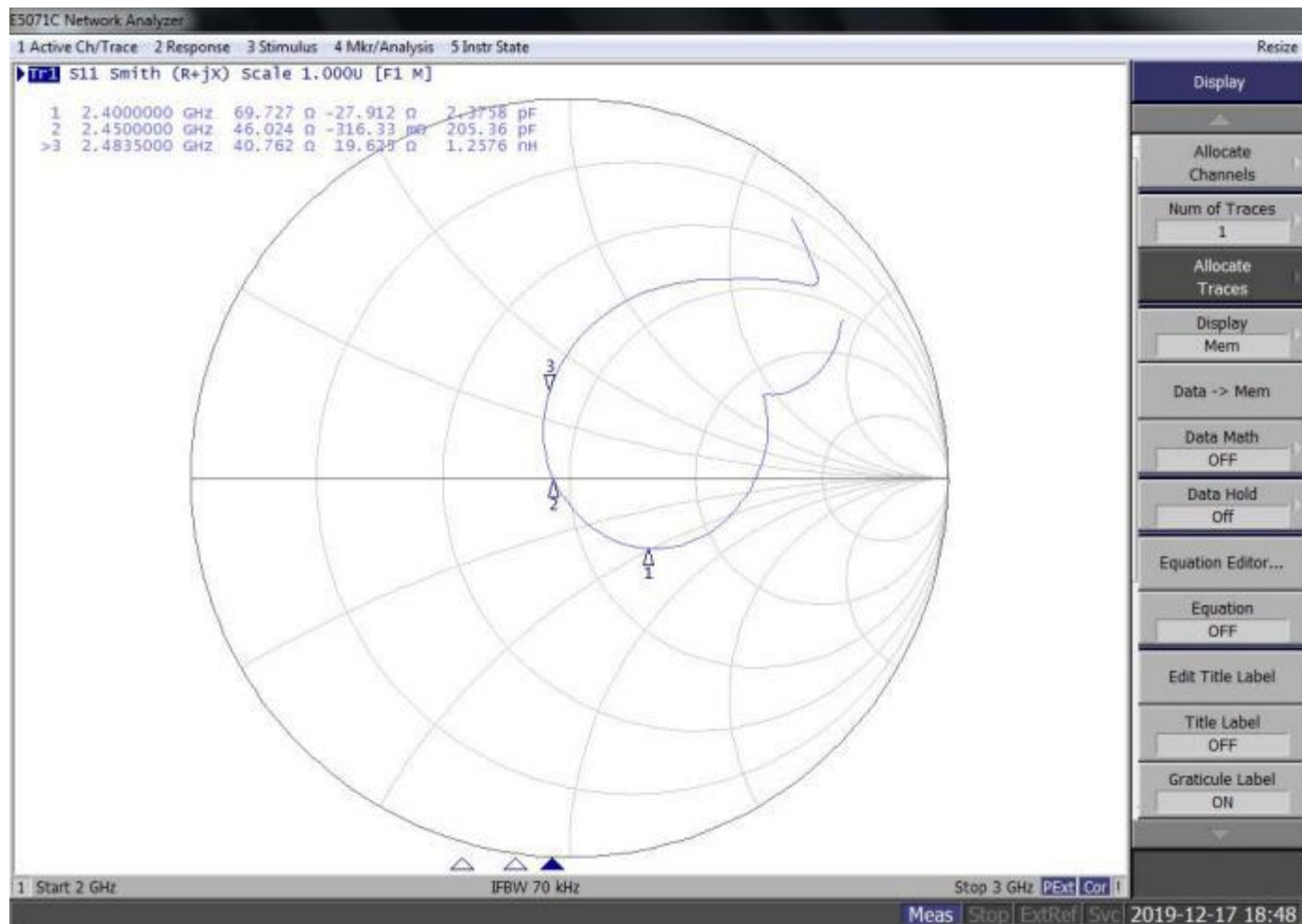
2.2 VSWR



2.3 RETURN LOSS



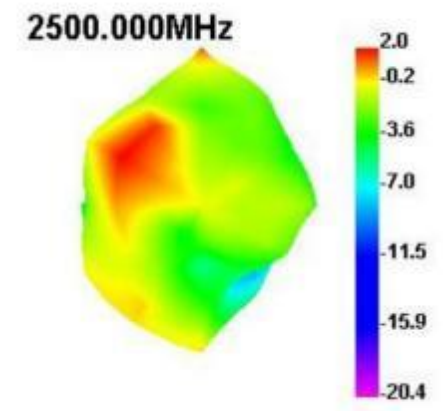
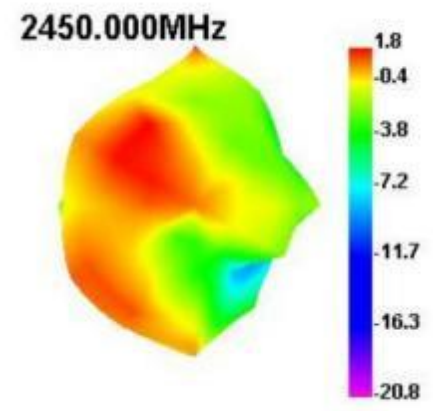
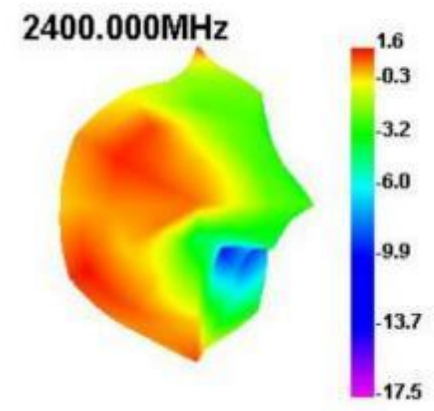
2.4 SMITH



2.5 *GAIN & Efficiency*

Passive Test For 2.4G				
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)
2400	51.96	-2.84	1.62	-0.53
2410	55.03	-2.59	1.99	-0.16
2420	54.81	-2.61	2.02	-0.13
2430	54.93	-2.6	2.03	-0.12
2440	52.84	-2.77	1.88	-0.27
2450	51.93	-2.85	1.83	-0.32
2460	51.63	-2.87	1.83	-0.32
2470	50.01	-3.01	1.87	-0.28
2480	53.08	-2.75	2.08	0.13
2490	50.18	-2.99	2.09	0.04
2500	45.45	-3.42	2.01	-0.14

2.6 2D/3D DATA



3. Conclusion

PCB板端匹配电路,E3串 0Ω 连接天线, 天线尺寸剪短, 现长度11mm, 宽度6mm.无源驻波调试到2.0以下, 初步判定合格。

PCB board end matching circuit,E3 series 0Ω connected antenna, antenna size cut short, now the length of 11mm, width of 6mm. Passive standing wave debugging below 2.0, preliminarily qualified.