

ANTENNA SPECIFICATION

CUS P/N :W3947 BT-L Antenna

ApplicationDate:Feb,10,2023

Rev: R:A0

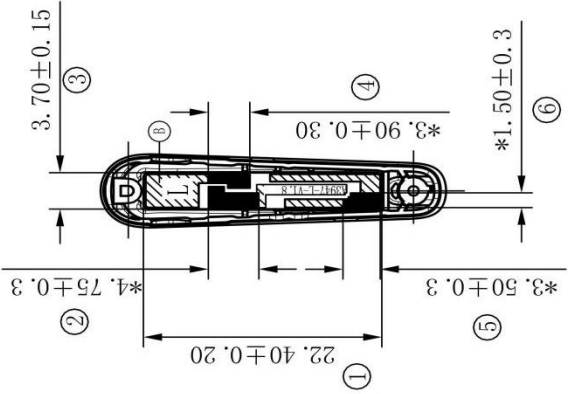
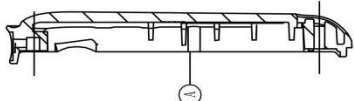
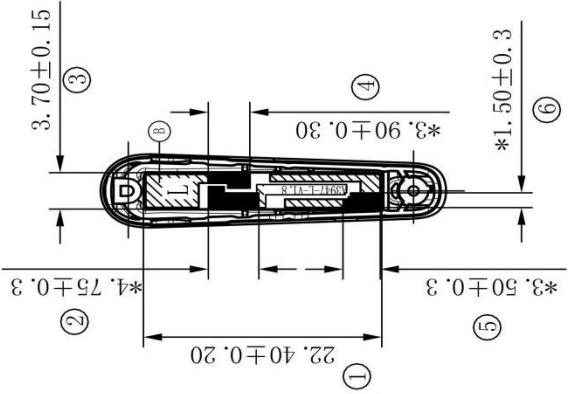
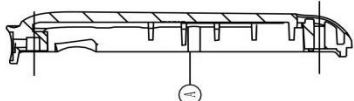
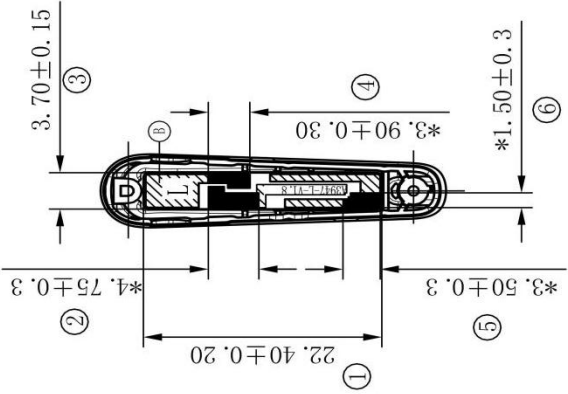
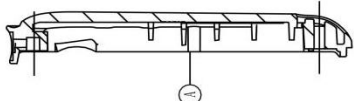
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Editor:

Page 3 of 7

1. Mechanical Specification

1-1 Mechanical Configuration (A3947 BT-L Antenna)

1		2		3		4		5		6		7		8	
A		B		C		D		A		B		C		D	
															
Remarks:		1: The dimensions marked in the drawing need to check by IQC.		2: The cosmetic of the product should not be dirty, burrs, painting defects and others issue.		3: The FPC need to assemble on cover housing, FPC don't warped, peel off ,scratch and so on.		4: Package: Tray.		5: Without the confirmation of ZTX , the material and process requirements can not be changed at will, all materials meet the requirements of Rohs2.0					
Component description		ITEM		PART NAME		MATERIAL		FINISH		General Tolerance		Date		Unit	
D		A		TOP COVER		PC+ABS		painting		Dim		5-10		±0.10	
		B		BT-R FPC		PI base+CU foil Gold plated≥1.2μ"		Gold plated		10-20		±0.15		±0.30	
										20-40		±0.20		±0.40	
										40		±0.25		±0.50	
ZTX 深圳市中天迅通信科技股份有限公司 Shenzhen ZHONGTIANXUN Communication Technology Shares Co., Ltd		Project Name		A3947		Scale		1:1		Rev		Date		Unit	
		Product Name		BT-L ANTENNA		Material		Process		Third Angle		Drawing Name		ZTX-QR-013	
		Material Code		1.03.02886		Third Angle		Third Angle		Third Angle		Third Angle		Third Angle	
		Drawing Name		ZTX-QR-013		Drawing Name		Drawing Name		Drawing Name		Drawing Name		Drawing Name	

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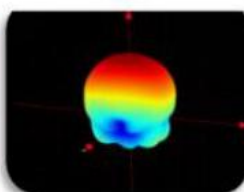
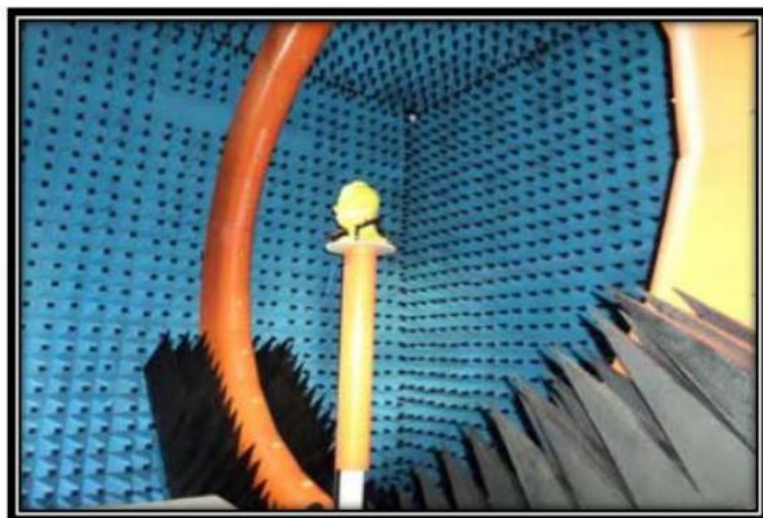
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Editor:

Rev: R:A0

Page 4 of 7

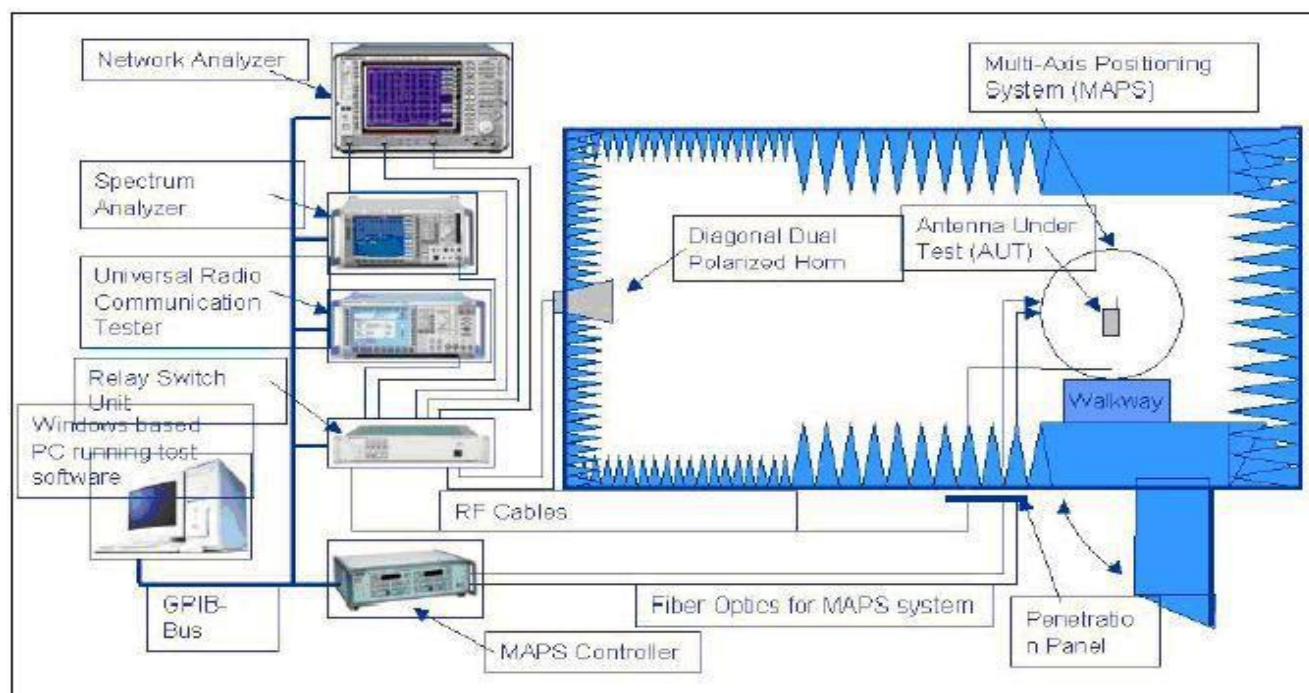
2.Test equipment



Owned 6 microwave dark room, equipped 2 sets world leading France Satimo SG24 OTA certification test systems (one in SHENZHEN, another one in Shanghai), ETS OTA Standard test system, Blue test reverberation test system which is High repeatability, high accuracy and high resolution. It can quickly provide accurate test reports, fully meet the CTIA standards.

Testing range:

Support active, passive testing of
GSM/CDMA/WCDMA/TD-
SCDMA/LTE/WIFI/WLAN/WiMax/BT
/GPS/MIMO/UWB within 0.4-6G.



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Page 5 of 7

3.Test Results Summary

3-1 Active Test

Main board conduction	channel	TX	RX
BT-L	0	11.5	-93.5
	39	11.5	-93.5
	78	11.5	-93.5
free space	channel	TRP	TIS
BT-L	0	6.5	-88.5
	39	6.9	-88.3
	78	7.4	-88.6
The second generation of head	channel	TRP	TIS
BT-L	0	1.6	-83.5
	39	2.5	-83.4
	78	1.9	-83.8

3-2 Passive Test

Fre	Effi	Effi . dB	Gain dB
2400	30%	-5.29	-1.20
2410	30%	-5.26	-1.32
2420	30%	-5.30	-1.18
2430	30%	-5.27	-1.24
2440	29%	-5.31	-1.37
2450	29%	-5.41	-1.19
2460	28%	-5.54	-1.26
2470	27%	-5.63	-1.80
2480	27%	-5.76	-1.75
2490	26%	-5.82	-2.00
2500	26%	-5.93	-1.93

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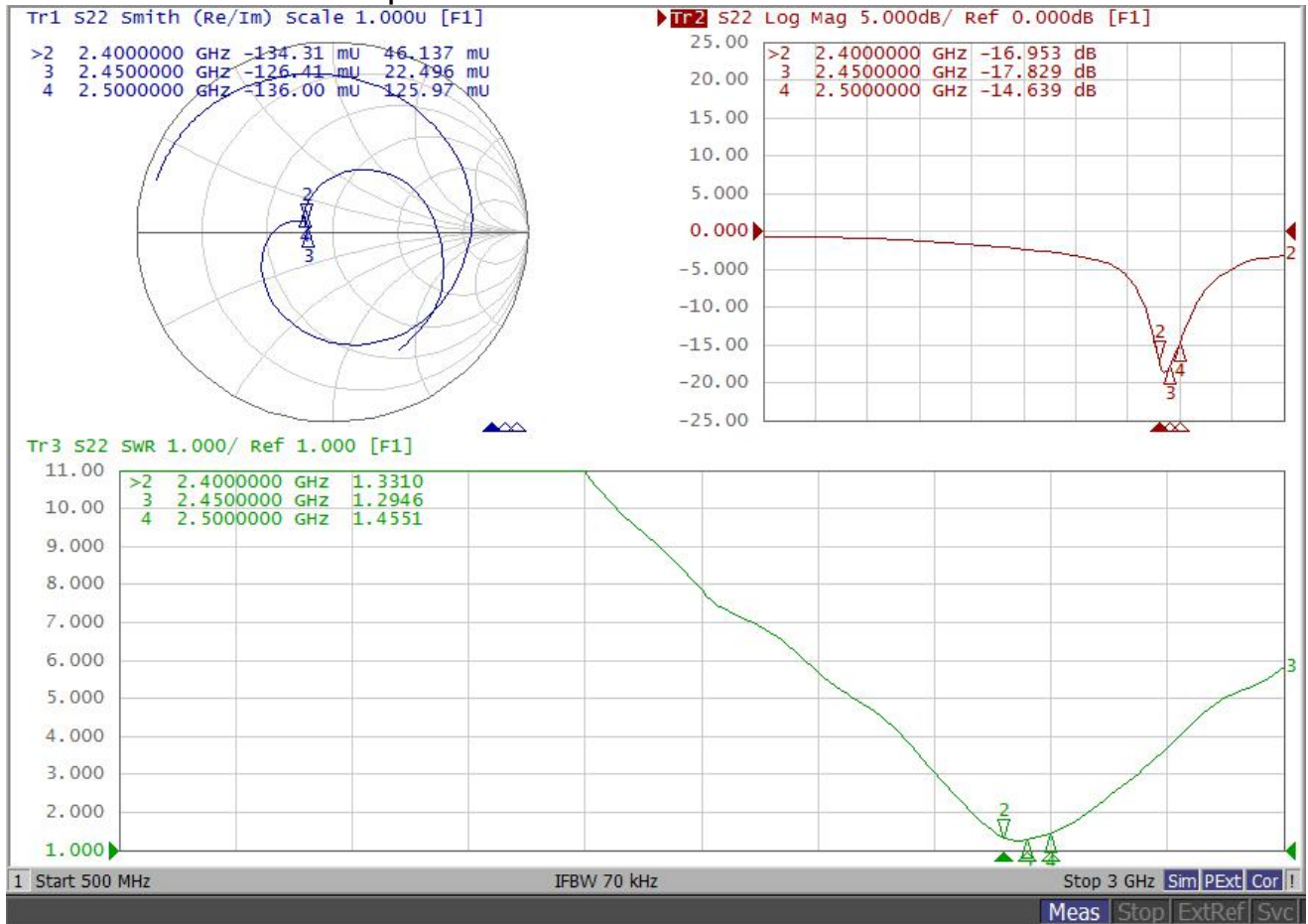
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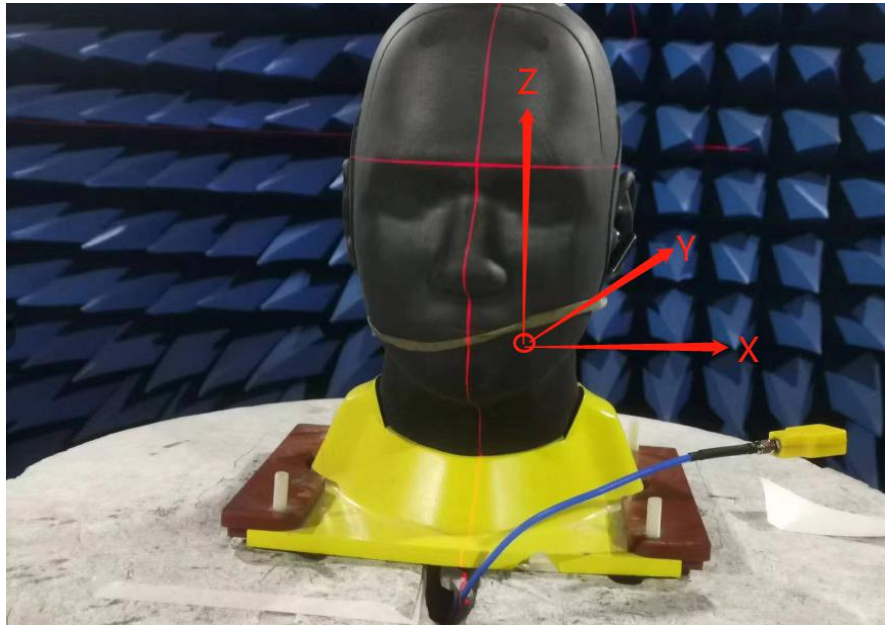
Editor:

Page 6 of 7

3-4 VSWR&Return loss plot&Smith Chart



3-5 2D/3D Radiation Pattern Results



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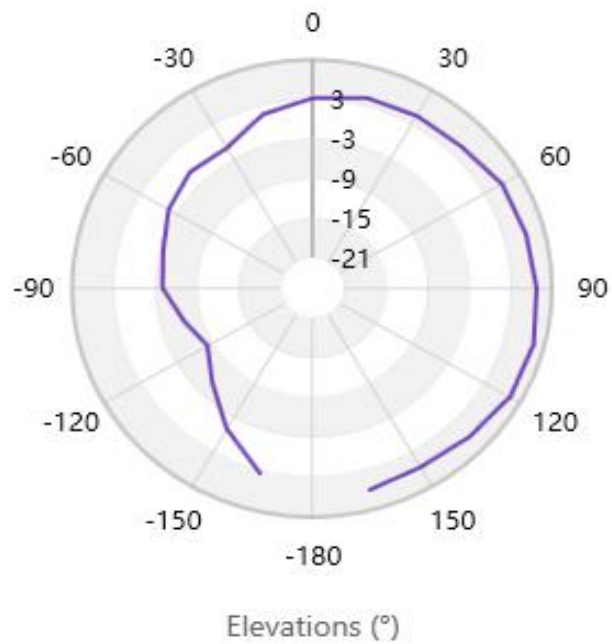
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Editor:

Page 7 of 7

— 2.441 GHz 0.00 ° Total



3-6 Environment treatment
N/A