

承认书

APPROVAL SHEET

样品封订

客户名称 Customer Name

GGEC

产品型号 Product Model

B00MBOX3 PRO -BT

客户料号 Customer P/N

南斗星料号 SouthstarP/N

3. N204. 0248

制作日期 Production date

2022-06-10

封样版本 Sample Version

A 版

南斗星 (Southstar)		
编制 (FICTION)	品质 (DQE)	研发 (R&D)
客户 (Customer)		
采 购 (PUR)	品质 (QC)	研发 (R&D)

生产厂商：深圳市南斗星科技有限公司

深圳地址：深圳市宝安区西乡鹤州恒丰工业城 C6 栋 8. 10. 16 楼

东莞地址：东莞市虎门镇赤岗南坊一路三号

电 话：0755-27474071 传真：0755-29976316

网 址：WWW.SZ-SOUTHSTAR.COM

南斗星科技香港有限公司

SOUTH STAR TECHNOLOGY HONG KONG COMPANY LIMITED

承认书变更履历

版 本	日 期	变 更 描 述	备 注
Rev. 01	2022. 06. 10	初 版	

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基本参数(The basic parameters)

A. Electrical Characteristics	
Frequency	2400MHZ~2500MHZ
VSWR	< 2
Avg Efficiency	>50%
Impedance	50 Ohm
Polarization	Linear
Peak Gain	2.4G:2.61dBi
B. Material & Mechanical Characteristics	
Material of Radiator	FPC black
Cable Type	Ø 1.13mm blue
Connector Type	
Dimension	
C. Environmental	
Operation Temperature	- 20 °C ~ + 60 °C
Storage Temperature	- 20 °C ~ + 80 °C

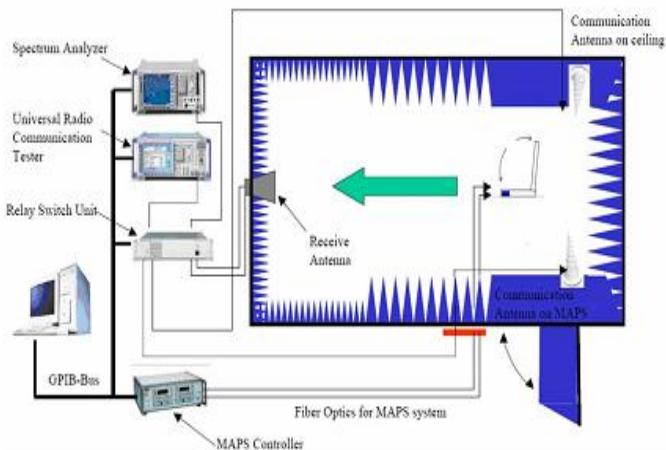
A	1	2	3	4	5	6		7	8																																											
						Rev	Description		Date	Remark																																										
						A	New drawing																																													
						B																																														
B																																																				
C																																																				
技术要求:																																																				
1. 标 “*” 尺寸为重点管控尺寸;																																																				
2. 未标注尺寸依照图纸;																																																				
3. 无虚焊、假焊、连锡、短路、断路等焊接不良现象;																																																				
4. 所有部件需符合RoHS2.0; REACH要求;																																																				
5. 成品需全检性能。																																																				
D						3	海绵	135*20*3.0mm	1	灰色	 South Star 深圳市南斗星科技有限公司 东莞市南斗星科技有限公司 Shenzhen South Star Technology Co.,Ltd Dongguan South Star Technology Co.,Ltd <table><tr><td colspan="2">Third Angle</td><td>Project</td><td>BOOMBOX3 PRO (GG)</td><td>Date</td><td colspan="2">2022-05-30</td></tr><tr><td>0~10</td><td>±0.05</td><td rowspan="4">  Angle </td><td>Part Name</td><td>BT 天线</td><td>Designed by</td><td>李 森</td></tr><tr><td>10~18</td><td>±0.10</td><td>Part No.</td><td>3.N204.0248</td><td rowspan="2">Checked by</td><td>RF 邓居平</td></tr><tr><td>18~30</td><td>±0.12</td><td>Material</td><td>/</td><td>PE</td></tr><tr><td>30~40</td><td>±0.15</td><td>Customer P/N</td><td colspan="3">Approved by</td></tr><tr><td>40~</td><td>±0.20</td><td>Location</td><td colspan="3">Unit mm Scale 1:1 Rev A</td></tr></table>					Third Angle		Project	BOOMBOX3 PRO (GG)	Date	2022-05-30		0~10	±0.05	 Angle	Part Name	BT 天线	Designed by	李 森	10~18	±0.10	Part No.	3.N204.0248	Checked by	RF 邓居平	18~30	±0.12	Material	/	PE	30~40	±0.15	Customer P/N	Approved by			40~	±0.20	Location	Unit mm Scale 1:1 Rev A		
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	40~	±0.20	Location	Unit mm Scale 1:1 Rev A																																																
	2	FPC	PI/电解铜	1	黑色																																															
	1	同轴线	ø1.13蓝色线+一代端子	1																																																
	No.	Part Name	Specification	Amount	Remark																																															
1	2	3	4	5	6	7	8																																													

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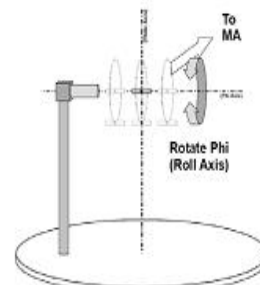
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测试设备(Test Equipment & Conditions)

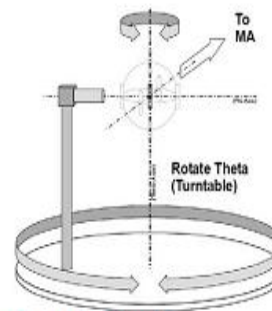
- 1.网络分析仪Network Analyzers : Agilent 5071C
- 2.综合测试仪Communications Test Set: Agilent E5515C CMW500
- 3.3D暗室测试系统 3D Chamber Test System



(Testing by 3D anechoic chamber)



Phi axis test



Theta axis test

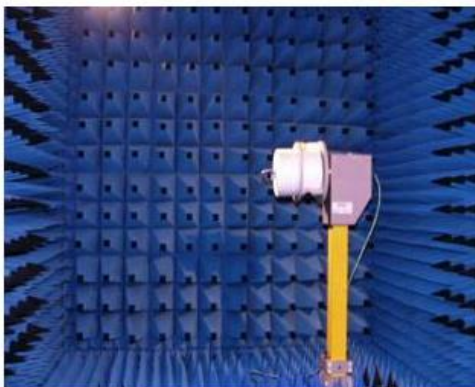
暗室规格: ETS-7 4 3

TD-SCDMA测试设备:StarPoint SP6010/Agilent 8960

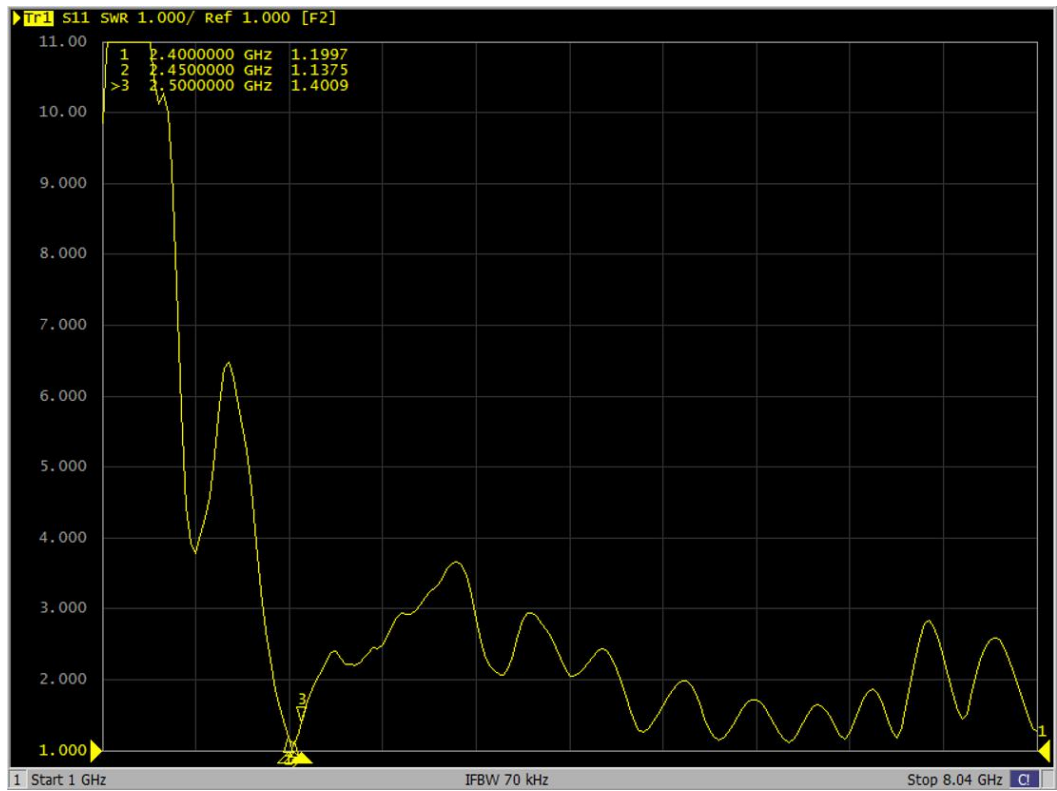
LTE-TDD/FDD-SCDMA测试设备:StarPoint SP8011 /CMW500

WCDMA/GSM/CDMA测试设备: Agilent 8960

无源效率测试设备: Agilent Technologies E5071B



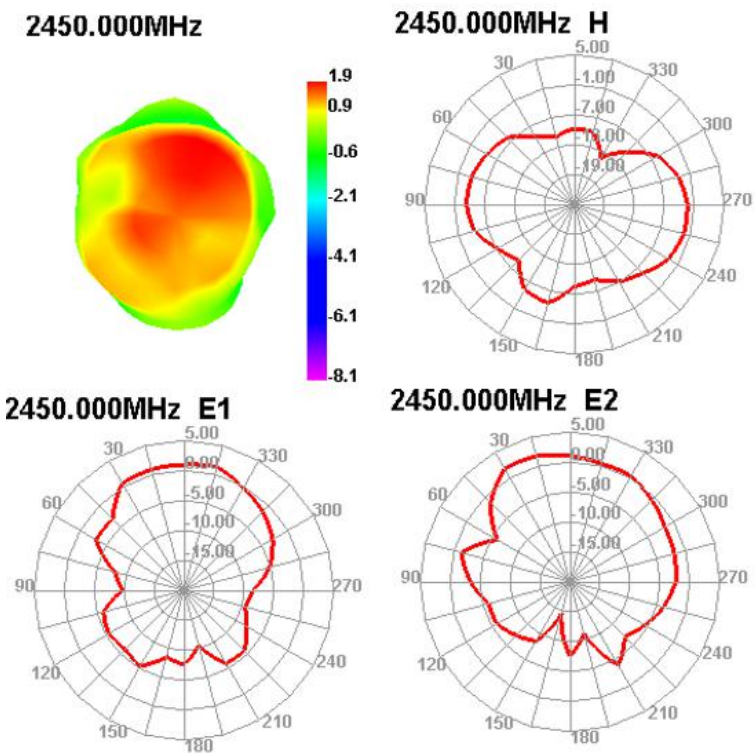
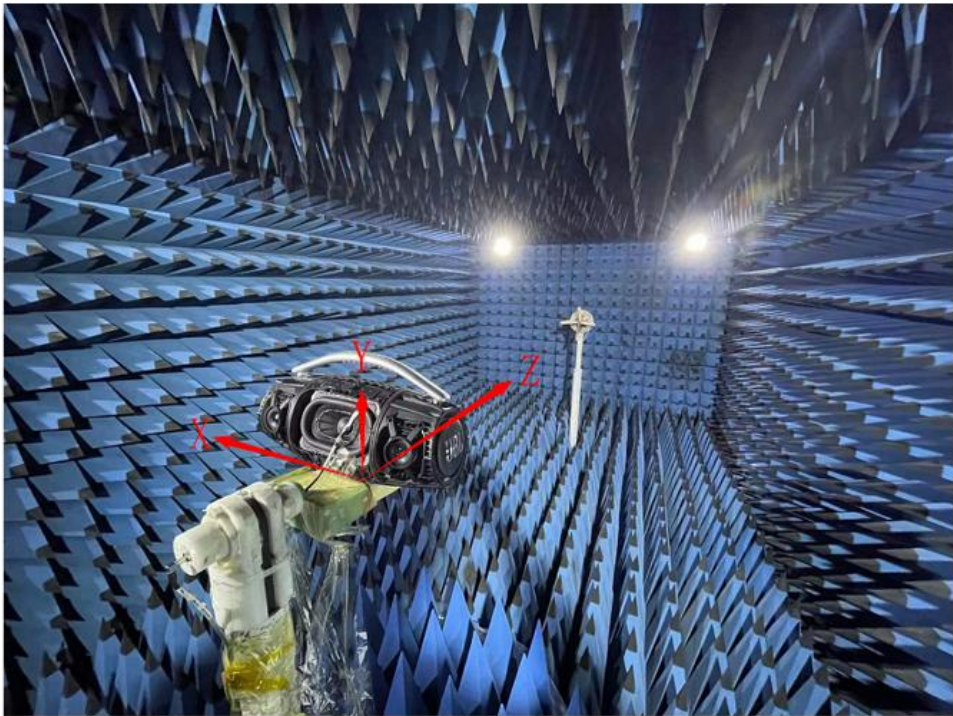
Antenna Impedance: S11 (parameter)



效率&增益(Efficiency & gain):

Passive Test For 2.4-BT		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	53.46	2.17
2410	54.01	1.98
2420	54.65	1.68
2430	55.13	2.61
2440	55.65	2.51
2450	56.51	1.93
2460	56.49	2.29
2470	54.79	2.3
2480	56.73	2.57
2490	57.71	1.88
2500	54.48	2.15

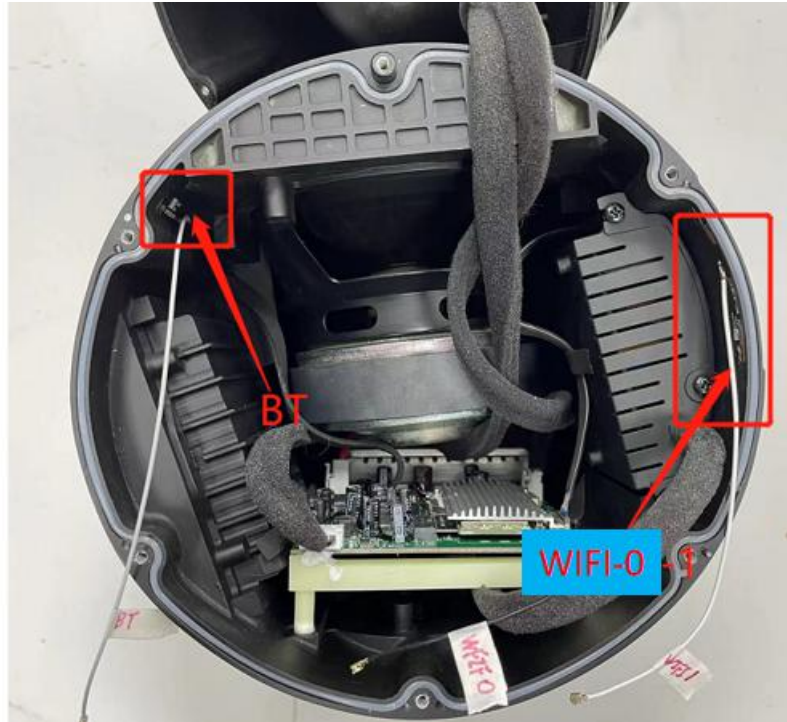
天线辐射图(Antenna radiation pattern):



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安装方式(Installation method):



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包装方式:



South
Star

产品包装规范

日期: 2022-04-01

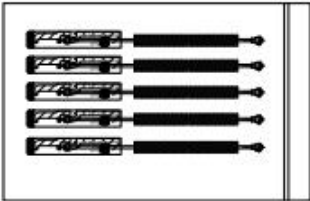
page: 1 of 1

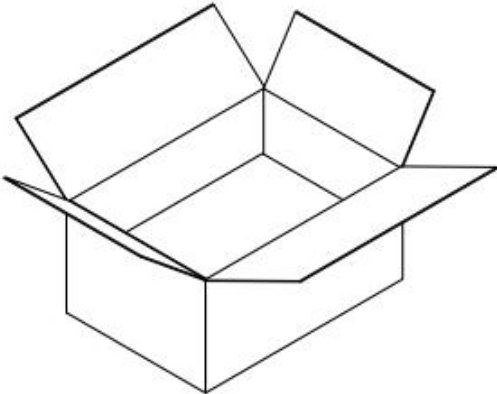
成品名称 : BOOMBOX3 PRO GG BT 天线	版本: A
	客户: 国光

一: 成品天线

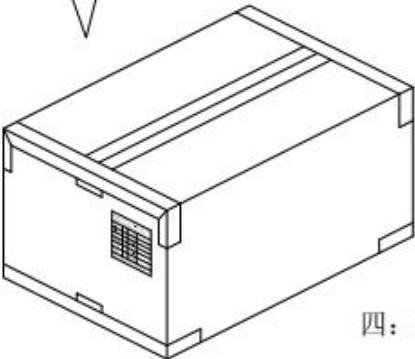


二: 装袋, 每PE袋装50PCS产品, 端子使用珍珠棉包扎好。





三: 装箱, 每12袋装一箱, 一箱共600PCS产品 (以实际包装为准)。



四: 封箱, 外箱贴我司生产标签和ROHS标签。

批准: _____

确认: _____

拟制: 李 森