

产品规格说明书
PRODUCT SPECIFICATION

产品名称：
PRODUCT NAME

产品编码： JL12
PRODUCT NUMBER

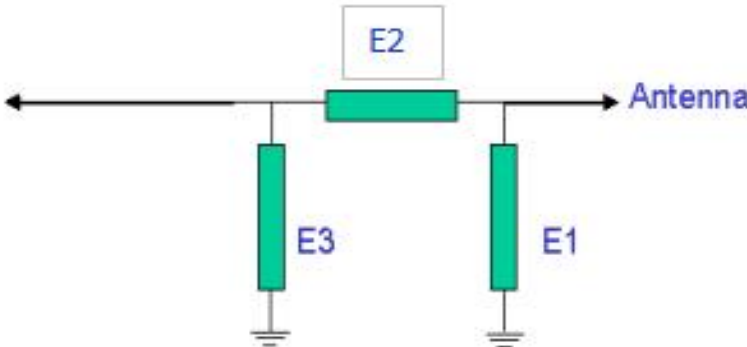
客户编码：
CUSTOMER NUMBER

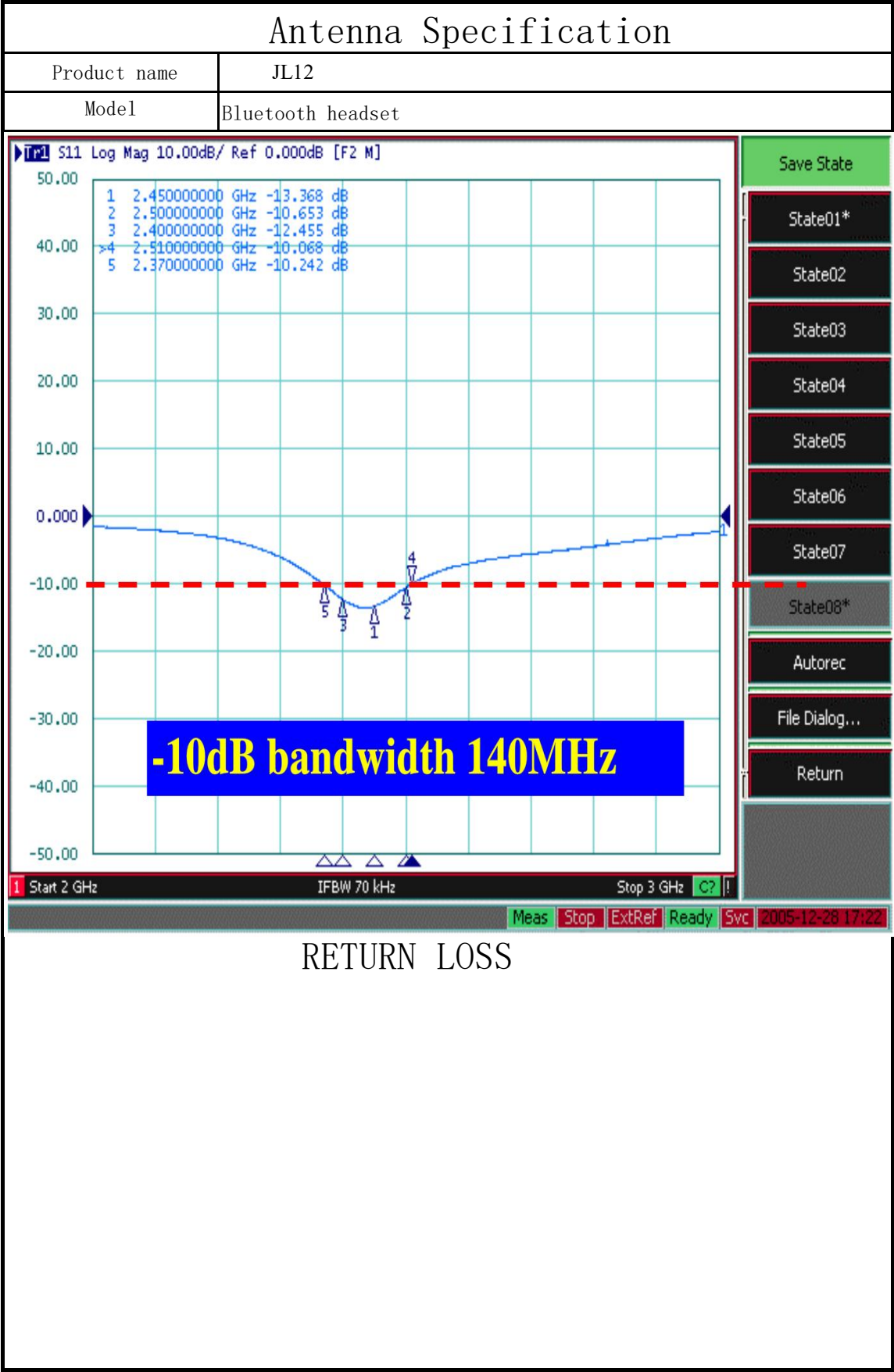
SHENZHEN HXD COMMUNICATION TECH CO., LTD.

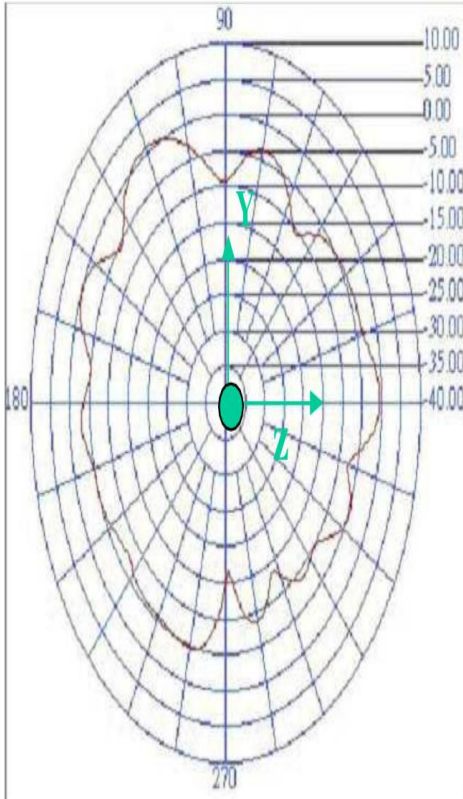
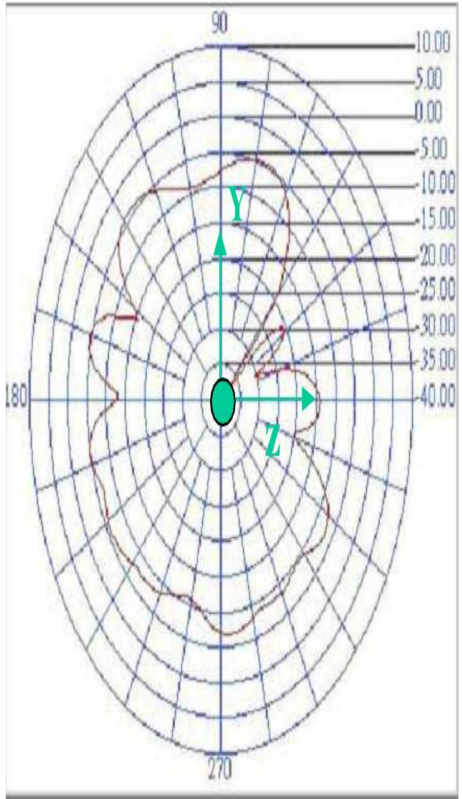
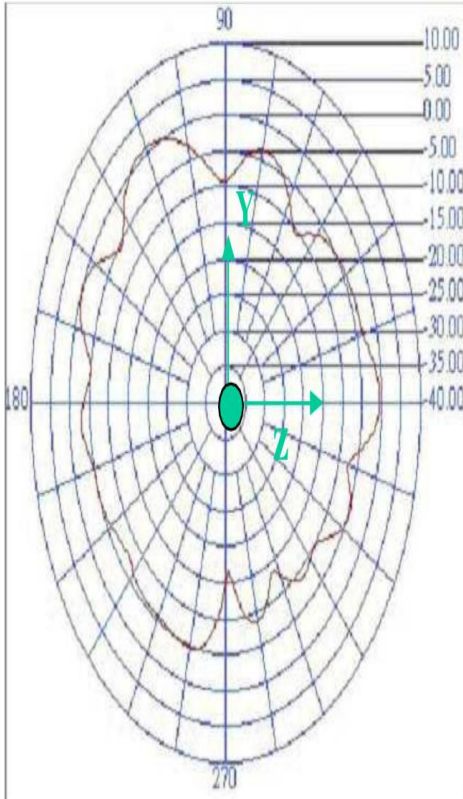
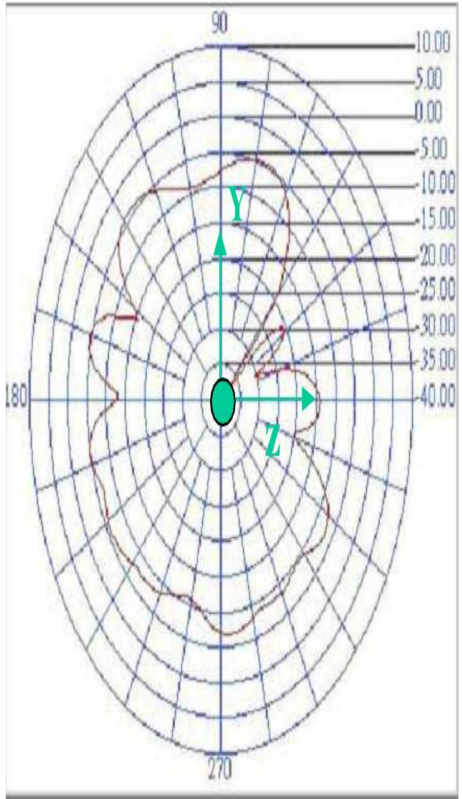
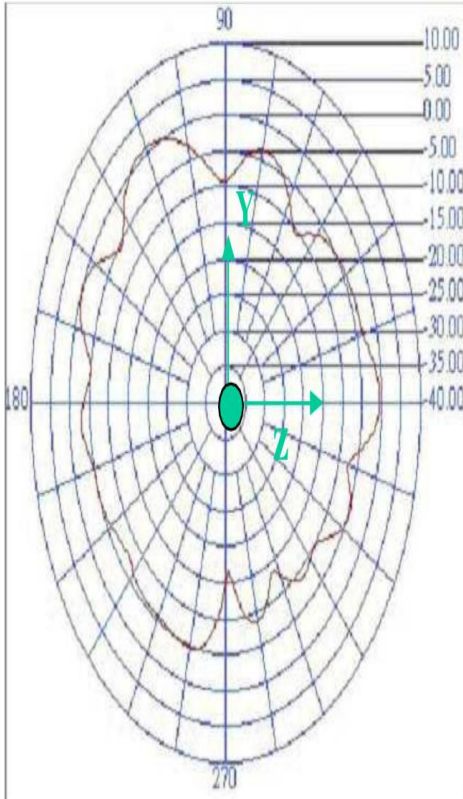
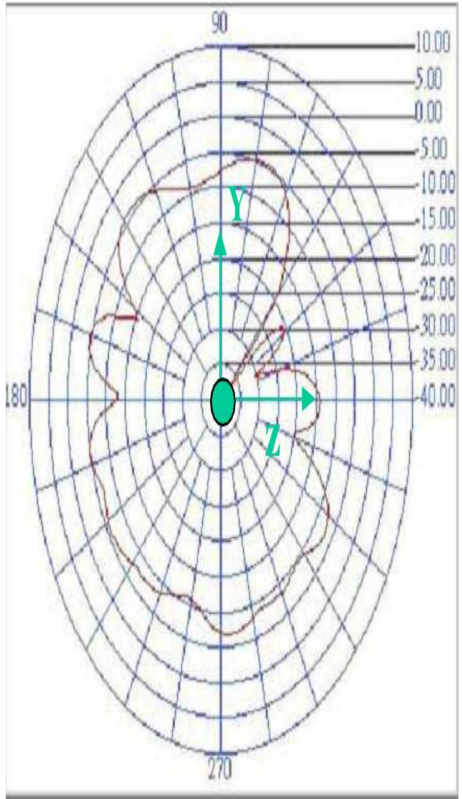
Room 301, No. 8, Sanhe Overseas Chinese District 2, Tongsheng Community,
Dalang Sub-district, Longhua District, Shenzhen City

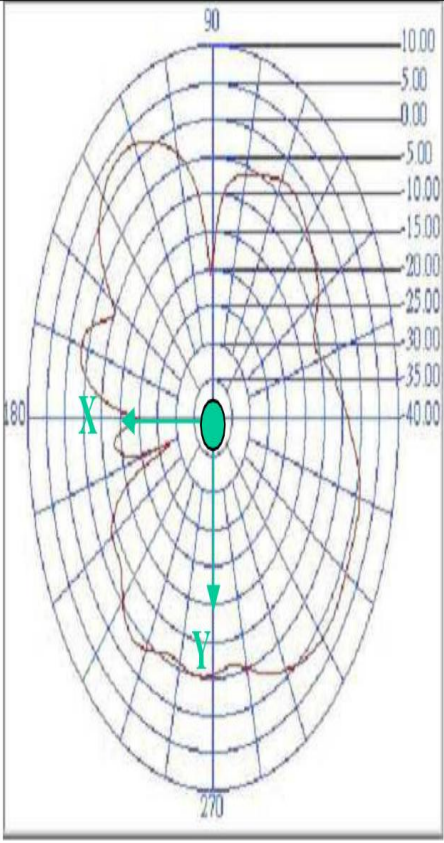
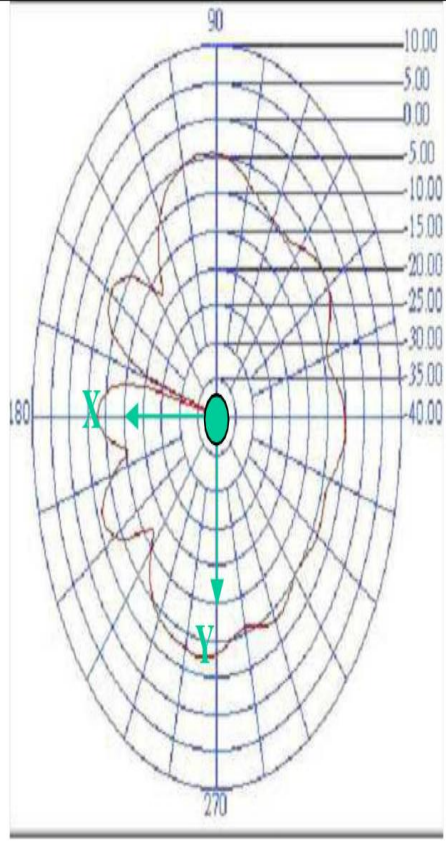
TEL:0755-61123122 FAX:0755-61123480

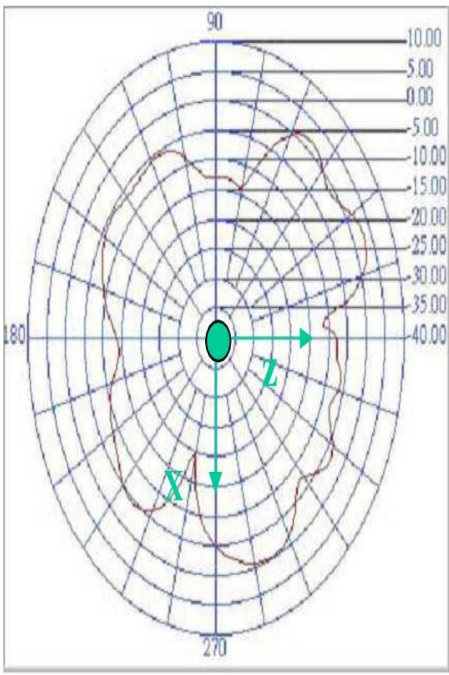
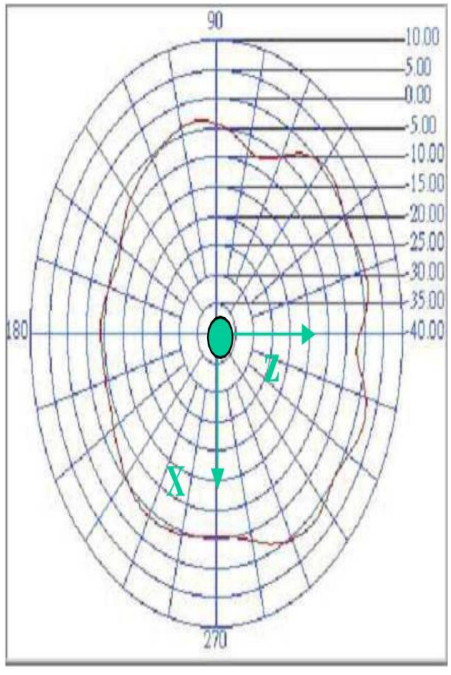
Antenna Specification		
Product name		JL12
Model		Bluetooth headset
	1. Bandwidth	2.402GHz ~2.480GHz
	2. Input impedance	50 Ω
	3. VSWR	
		2. 402GHz ~2. 480GHz 1. 5以下
	4.GAIN	2. 402GHz ~2. 480GHz GAIN=3. 19dBi (Typical)

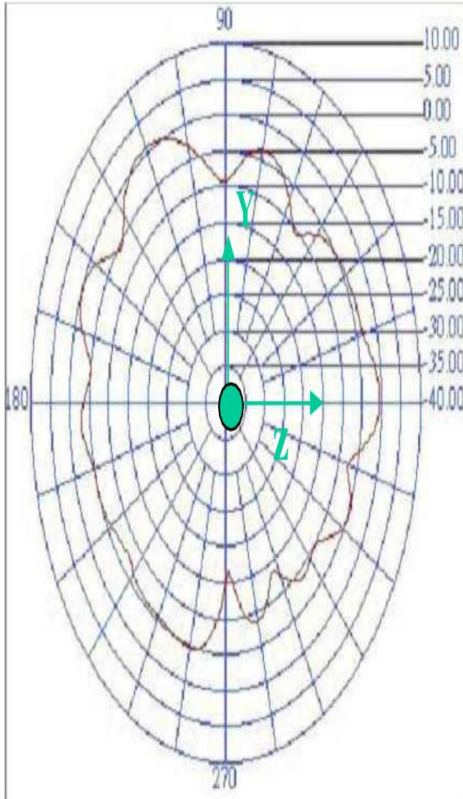
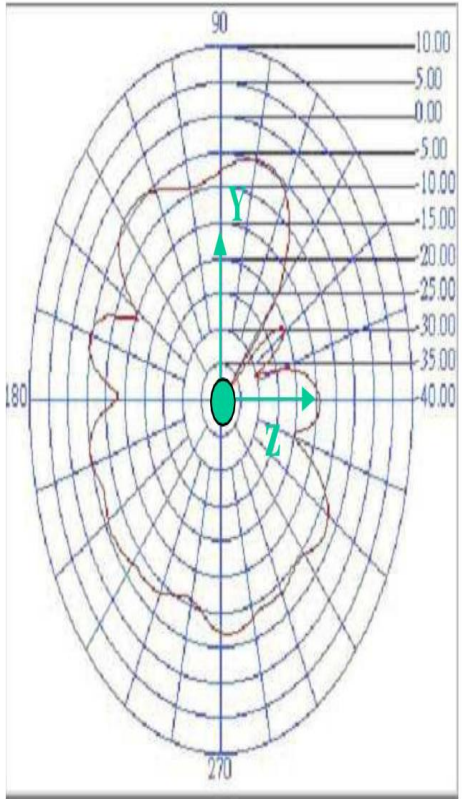
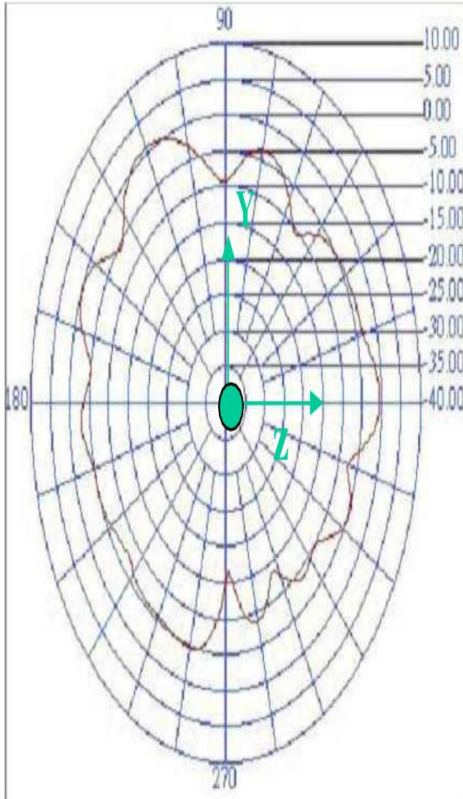
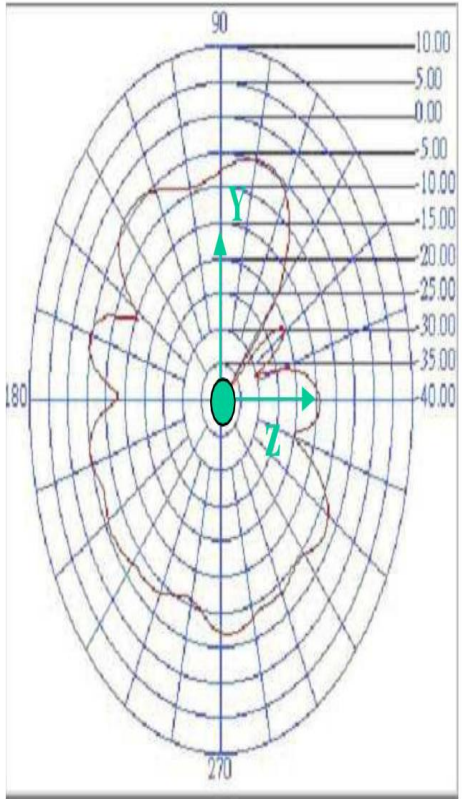
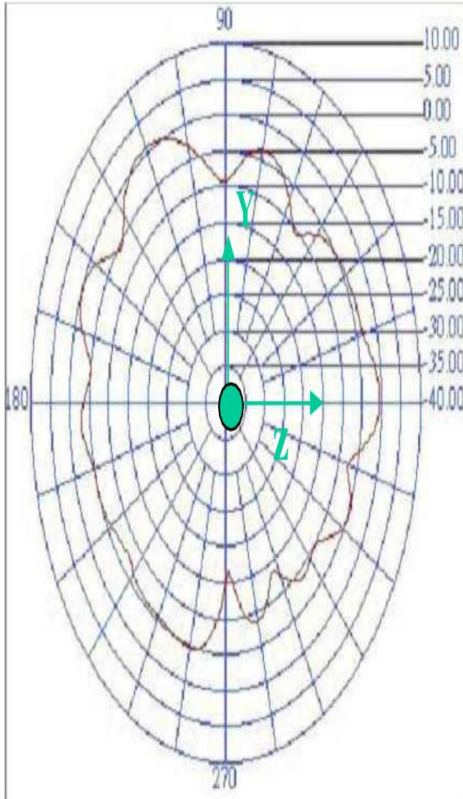
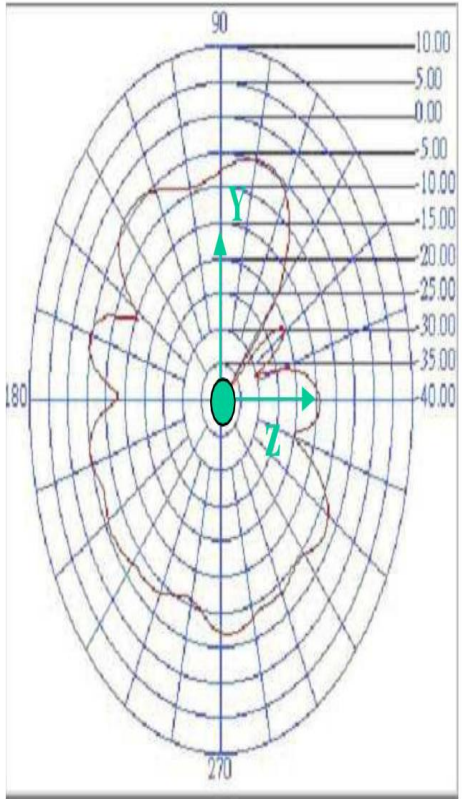
Antenna Specification																	
Product name	JL12																
Model	Bluetooth headset																
BLUE TOOTH ANTENNA  <table><tr><td rowspan="3">Matching instructions</td><td>E1</td><td>1.8PF</td><td>1.8PF</td></tr><tr><td>E2</td><td>8.2PF</td><td>OR</td></tr><tr><td>E3</td><td>NC</td><td>NC</td></tr><tr><td></td><td></td><td>Left</td><td>Right</td></tr></table>				Matching instructions	E1	1.8PF	1.8PF	E2	8.2PF	OR	E3	NC	NC			Left	Right
Matching instructions	E1	1.8PF	1.8PF														
	E2	8.2PF	OR														
	E3	NC	NC														
		Left	Right														

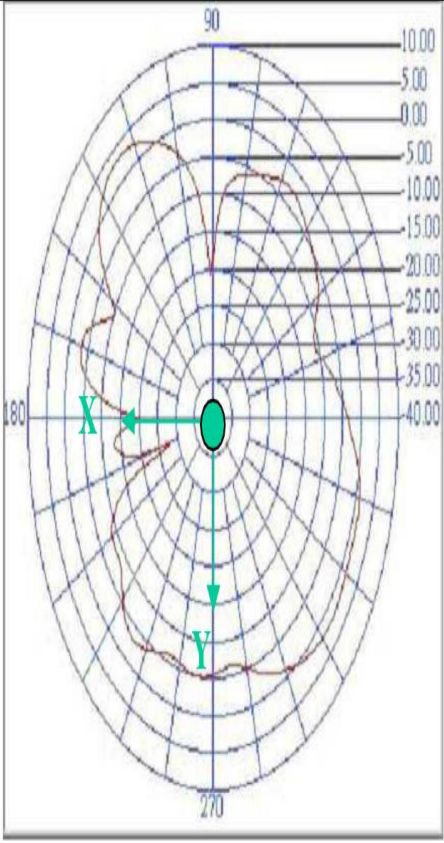
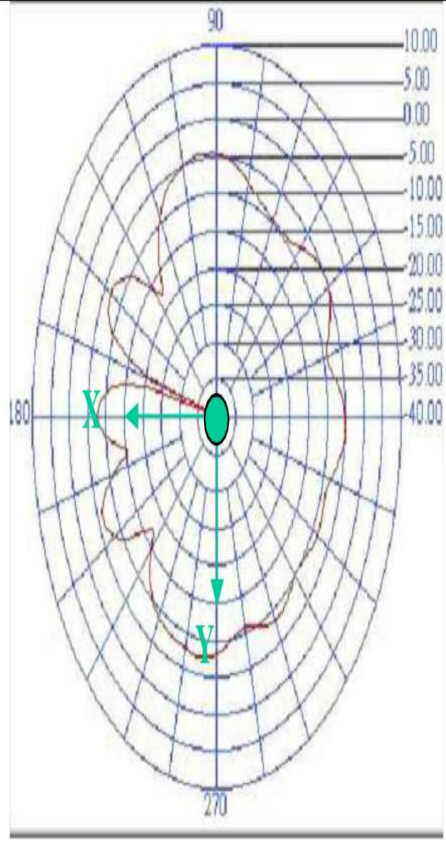


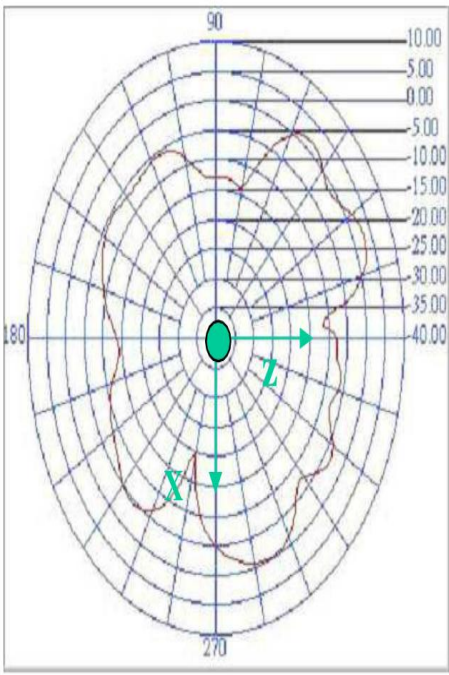
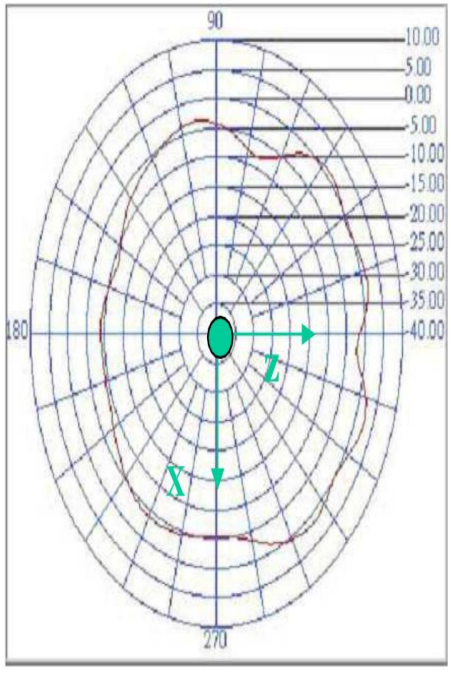
Antenna Specification							
Product name	JL12						
Model	Bluetooth headset(Left)						
	<table><tr><th></th><th>Horizontal</th><th>Vertical</th></tr><tr><td> Y - Z Plane Average Gain=-3.185 dBi </td><td>  Peak Gain = 0.95dBi Average Gain = -4.26 dBi </td><td>  Peak Gain= -4.05dBi Average Gain=-8.03 dBi </td></tr></table>		Horizontal	Vertical	Y - Z Plane Average Gain=-3.185 dBi	 Peak Gain = 0.95dBi Average Gain = -4.26 dBi	 Peak Gain= -4.05dBi Average Gain=-8.03 dBi
	Horizontal	Vertical					
Y - Z Plane Average Gain=-3.185 dBi	 Peak Gain = 0.95dBi Average Gain = -4.26 dBi	 Peak Gain= -4.05dBi Average Gain=-8.03 dBi					
Left Y-Z PLANE							

Antenna Specification	
Product name	JL12
Model	Bluetooth headset(Left)
X - Y Plane Average Gain= -1.543 dBi	 Peak Gain= 3.19 dBi Average Gain= -2.65 dBi
	 Peak Gain= -4.48 dBi Average Gain= -8.02 dBi
Left X-Y PLANE	

Antenna Specification	
Product name	JL12
Model	Bluetooth headset(Left)
X - Z Plane Average Gain= -0.99 dBi	 Peak Gain= 3.05 dBi Average Gain= -4.10dBi
	 Peak Gain= 2.49 dBi Average Gain= -2.47 dBi
Left X-Z PLANE	

Antenna Specification							
Product name	JL12						
Model	Bluetooth headset(Right)						
	<table><tr><th></th><th>Horizontal</th><th>Vertical</th></tr><tr><td> Y - Z Plane Average Gain=-3.581 dBi </td><td>  Peak Gain = 0.65dBi Average Gain = -4.29 dBi </td><td>  Peak Gain= -4.35dBi Average Gain=-8.33 dBi </td></tr></table> Right Y- Z PLANE		Horizontal	Vertical	Y - Z Plane Average Gain=-3.581 dBi	 Peak Gain = 0.65dBi Average Gain = -4.29 dBi	 Peak Gain= -4.35dBi Average Gain=-8.33 dBi
	Horizontal	Vertical					
Y - Z Plane Average Gain=-3.581 dBi	 Peak Gain = 0.65dBi Average Gain = -4.29 dBi	 Peak Gain= -4.35dBi Average Gain=-8.33 dBi					

Antenna Specification	
Product name	JL12
Model	Bluetooth headset(Right)
X - Y Plane Average Gain= -1.343 dBi	
	
Right X-Y PLANE	

Antenna Specification	
Product name	JL12
Model	Bluetooth headset(Right)
X - Z Plane Average Gain= -0.99 dBi	 Peak Gain= 3.00 dBi Average Gain= -5.10dBi
	 Peak Gain= 2.44 dBi Average Gain= -2.97 dBi
Right X-Z PLANE	

Antenna Specification

Product name

JL12

Model

Bluetooth headset

JL12-L

注:

1: 表面沉金 2μ

1: 布铜区域

2: 基材区域

2: 附胶区域

型号: JL12-L 表面过黑油, 丝印亮白色字码

1: 铜区域		
2: 基材区域		
2: 附胶区域		
3、铜箔厚度3M 300 LSE，制程在300MP以上，无附胶区域，铜箔外部与基材一致，覆在基材表面；		
4、材料厚度范围，铜箔与半导基材，厚度相等；		
5、产品厚度范围150°公差表面无厚度公差，以制程控制，经150°公差之后无厚度，不单独公差，制程可不控制；		
7、走线公差范围公差±0.03mm，外形尺寸公差范围±0.1mm以内；		
8、铜箔尺寸精度±0.02mm以内；		
9、走线公差范围公差±0.02mm，制程在300MP以上，无附胶区域，铜箔外部与基材一致，覆在基材表面；		
10、铜箔厚度，铜箔与半导基材，厚度相等；		
11、公差范围，公差范围公差±0.03mm，外形尺寸公差范围±0.1mm以内；		

深 圳 市 恒 信 达 通 讯 科 技 有 限 公 司					
 第三角法		机 种	JL12-L	日期	2024-08-29
未注公差参照标准		品 名	FPC	设计	SR
10以下	±0.05		料 号	审核	工程
10~20	±0.08		材 质	确认	制程
20~40	±0.10		模面处理	确认	
40以上	±0.15				

JL12-R

注:

1: 表面沉金 2μ

1: 布铜区域

2: 基材区域

2: 附胶区域

型号: JL12-R 表面过黑油, 丝印亮白色字码

注：

1：表面沉金 2μ

型号: JL12-R 表面过黑油, 丝印亮白色字码

1： 寄铜区域

2： 蒸材区域

2： 附胶区域

3、微蚀法选用 300 LSE，微蚀在300MP以上，无微蚀残膜，微蚀件要与基材一起 覆在基材背面；

4、材料厚度量，微蚀后平均厚度量，是材料厚度；

5、产品厚度后180°折弯表面无裂纹现象，是材料厚度；

6、产品厚度后180°折弯表面无裂纹现象，是材料厚度；

7、材料厚度公差范围 ±0.03mm，外形尺寸公差控制 0.1mm 以内；

8、材料尺寸公差控制 ±0.03mm；

9、产品厚度公差范围 ±0.03mm，外形尺寸公差控制 0.1mm 以内；

10、所有材料，需经检验合格后方可使用；

11、表面印字，其字体要清晰可辨

深圳市恒信达通讯科技有限公司

第三角注	机 种	JL12-R	日期	2024-08-29
未注公差参照标准	品 名	FPC	设计	SR
10以下 ±0.05	料 号		审核	工程
10~20 ±0.08	材 质		确认	制程
20~40 ±0.10	模面处理			
40以上 ±0.15				