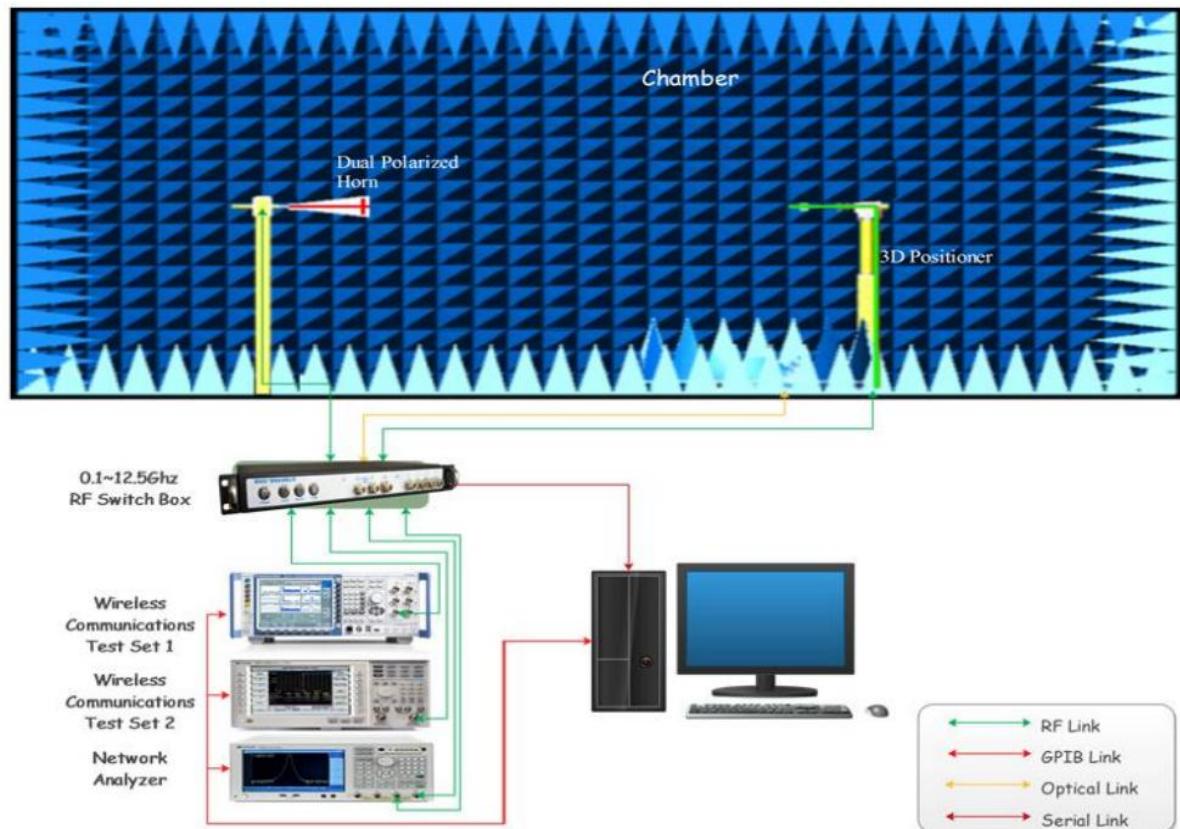


A20-E091 antennareport

	Shenzhen3Good Wireless Communications
Test Address	CO.,LTD Room501,Jinfulai Building, No.49-1,Dabao Road,Baoan District,Shenzhen
Test Date	August 15(th), 2024
Test Instrument	vector network analyzer-Agilent Technologies E5071B

Antenna Measurement procedure





Antenna information:

Customer	Boat of wealth
Antenna Model	FPC
Antenna Type	PIFA

Matching circuits:

ANT1		ANT2		ANT3	
开关RF匹配	主信号匹配	位号	匹配值	位号	匹配值
C109	0欧姆	C3401	NC	C5030	NC
C110	3nH	R3405	0欧姆	R5004	0欧姆
C111	8.2nH	C3403	NC	L5001	NC
C112	3.3nH			R5125	0欧姆
				R5123	0欧姆

Passive performance figure:

Frequency(MHz)	699~960	1710~2690	
VSWR	<3.5	<3.5	



Max. Peak Gain:

Band	Gain(dBi)	Band	Gain(dBi)
GSM850	-2.69	LTE B1	-0.15
GSM900	-1.94	LTE B2	1.2
GSM1800	0.71	LTE B3	0.71
GSM1900	1.2	LTE B4	-0.72
WCDMA 1	-0.15	LTE B5	-2.69
WCDMA 2	1.2	LTE B7	-1.33
WCDMA 4	-0.72	LTE B8	-1.94
WCDMA 5	-2.69	LTE B12	-2.37
WCDMA 8	-1.94	LTE B17	-2.37
		LTE B20	-2.76
		LTE B28	-3.1
		LTE B41	-1.33

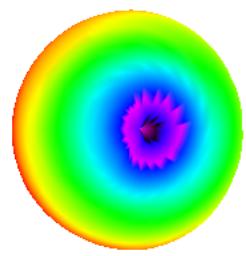
Max. Peak Gain:

Band	Gain(dBi)
GPS	2.65
2.4G WIFI	2.43
5G WIFI	-0.02
BT	2.43

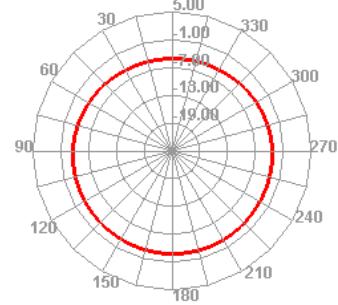
3-DPattenPlots

ANT1:

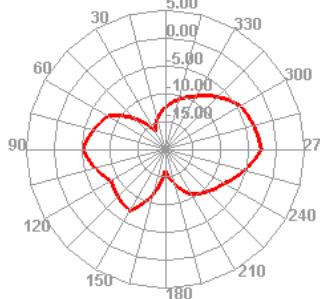
700.000MHz



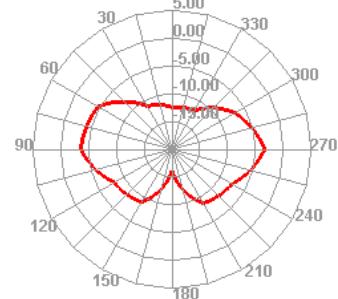
700.000MHz H



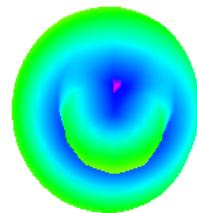
700.000MHz E1



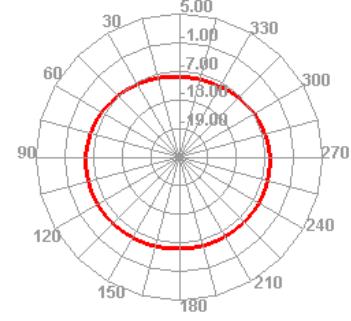
700.000MHz E2



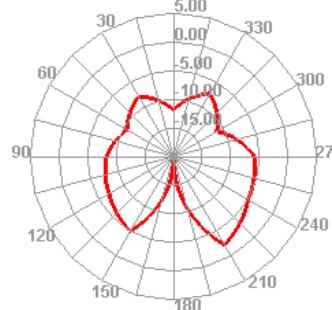
800.000MHz



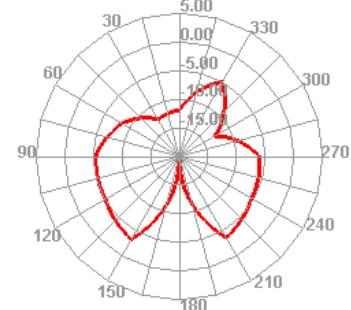
800.000MHz H

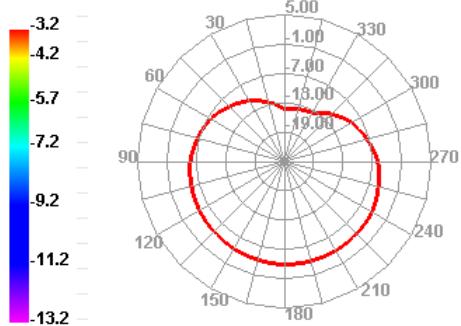
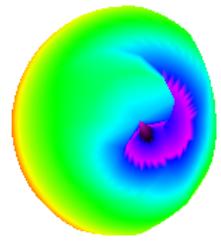
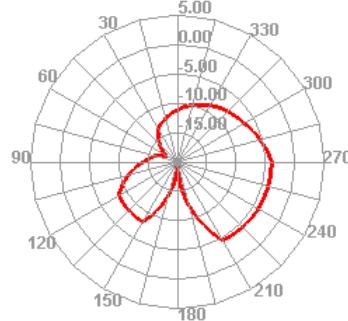
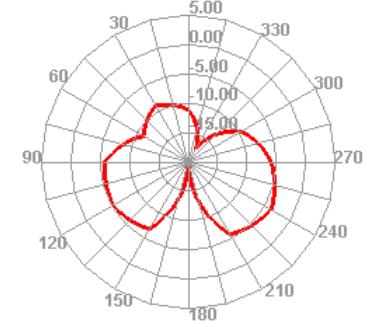
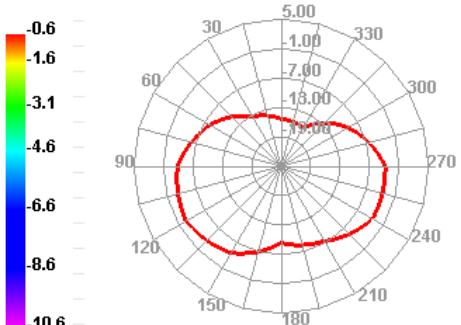
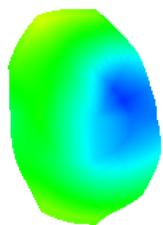
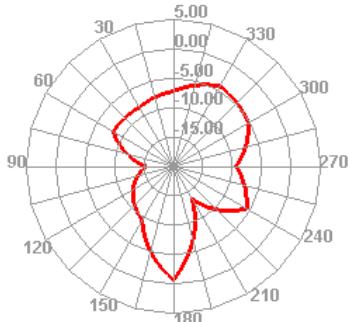
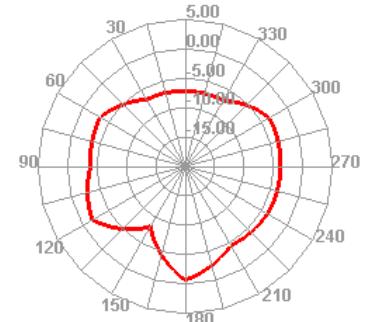


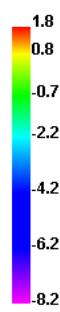
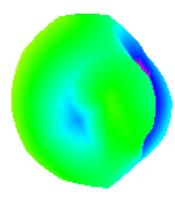
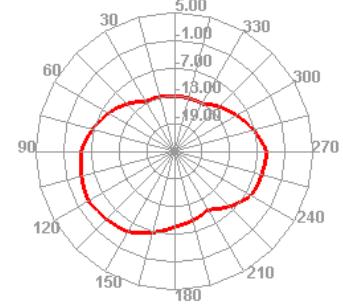
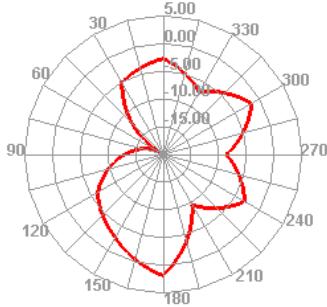
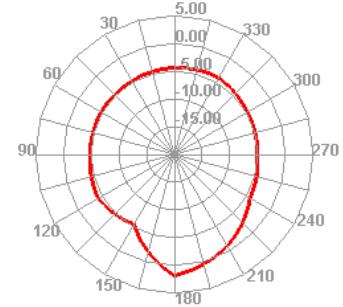
800.000MHz E1

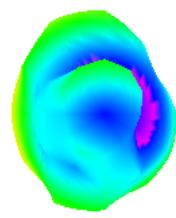
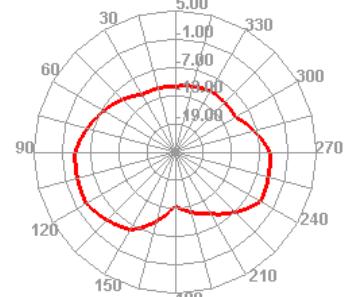
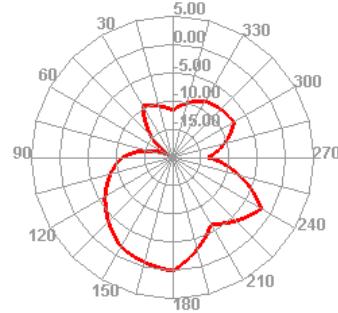
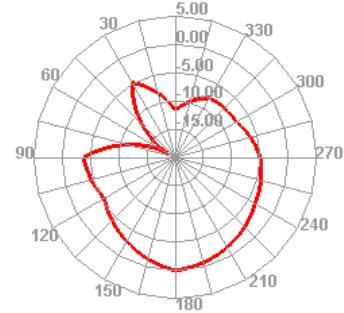
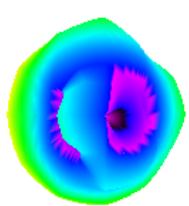
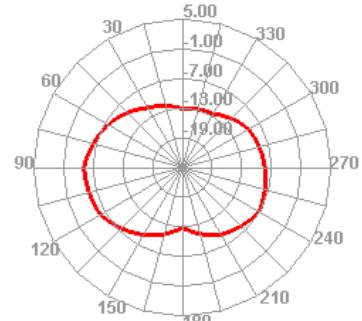
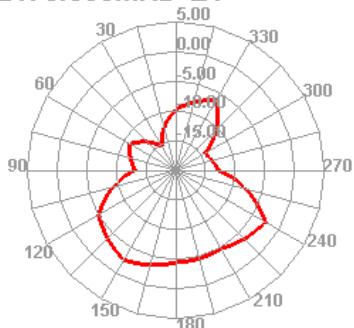
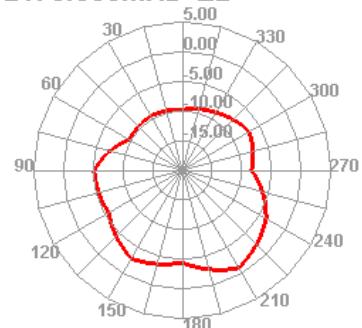


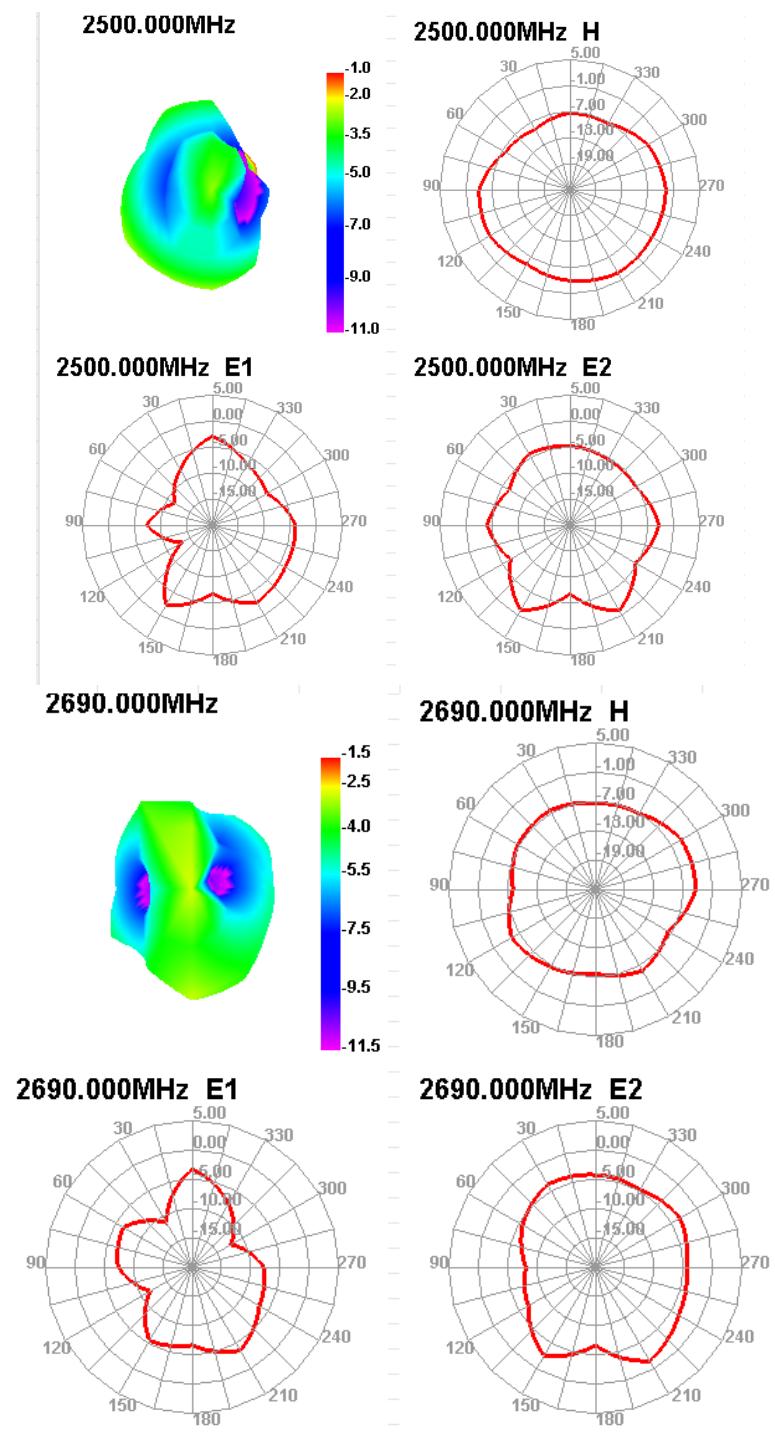
800.000MHz E2



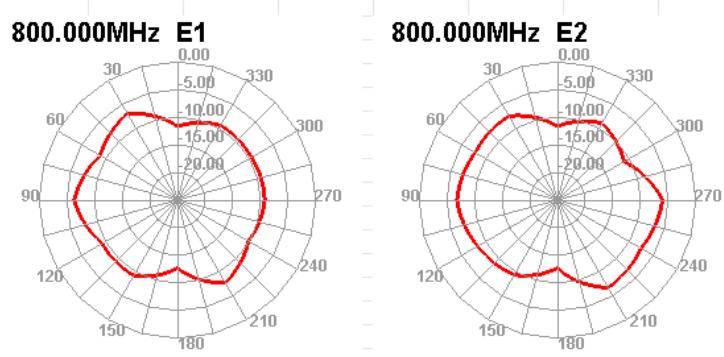
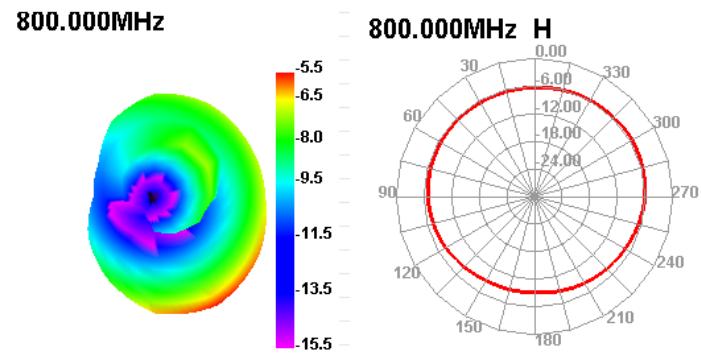
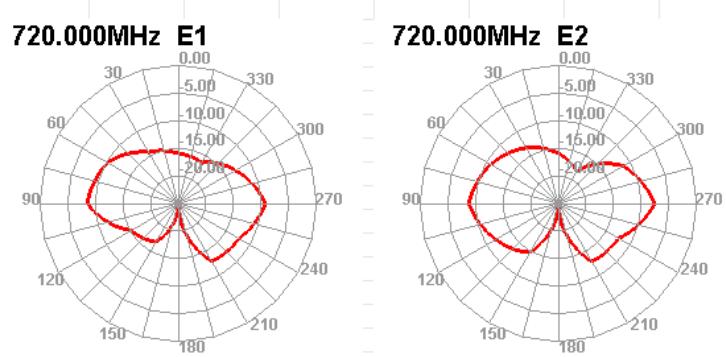
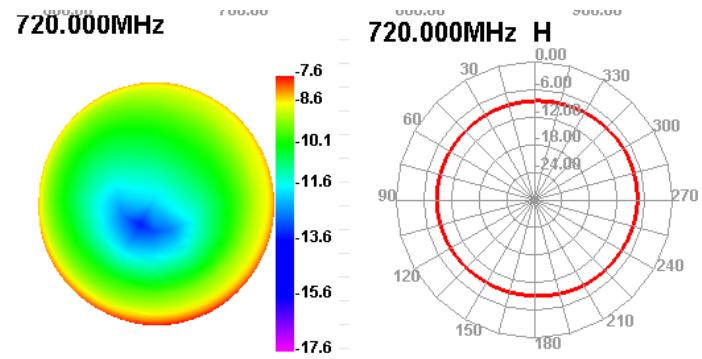
960.000MHz**960.000MHz E1****960.000MHz E2****1710.000MHz****1710.000MHz E1****1710.000MHz E2**

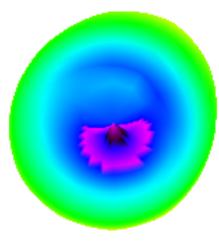
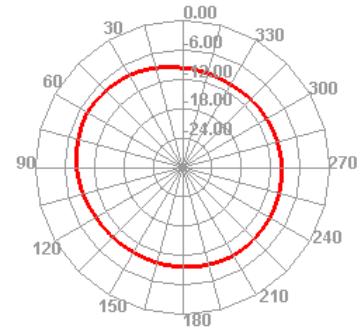
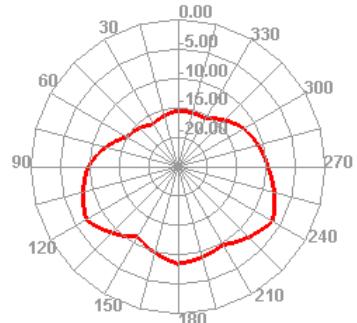
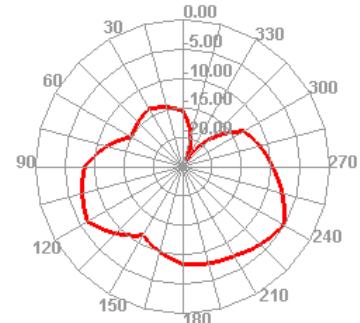
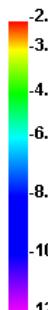
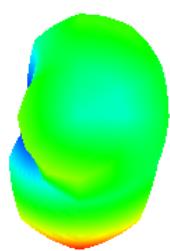
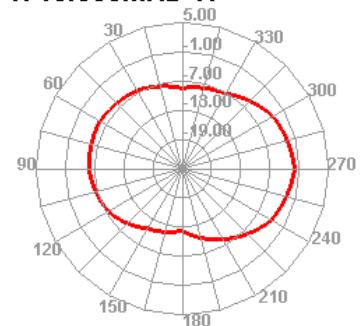
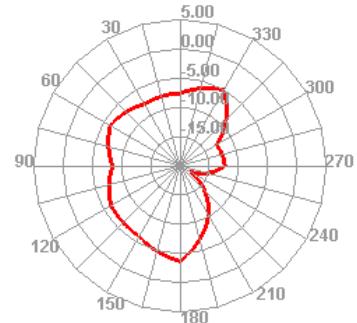
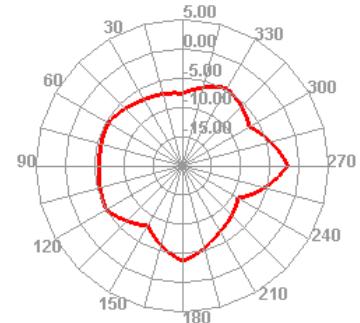
1880.000MHz**1880.000MHz H****1880.000MHz H****1880.000MHz E1****1880.000MHz E2**

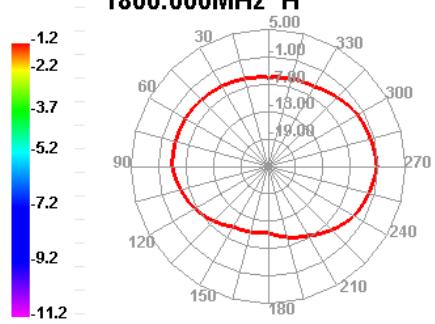
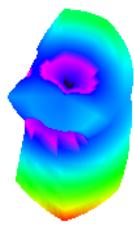
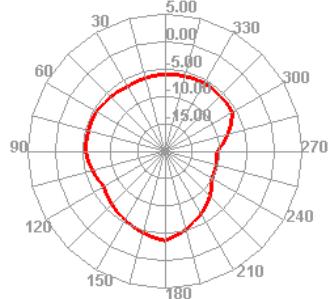
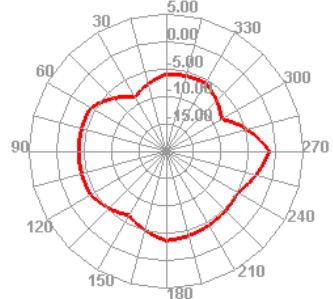
1990.000MHz**1990.000MHz H****1990.000MHz E1****1990.000MHz E2****2170.000MHz****2170.000MHz H****2170.000MHz E1****2170.000MHz E2**

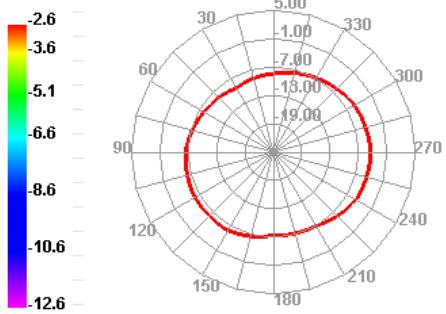
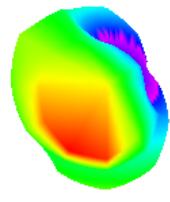
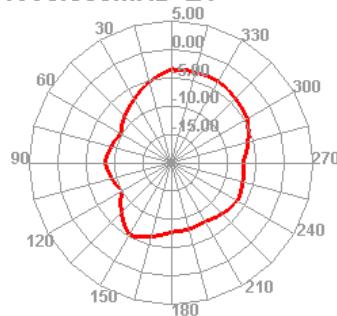
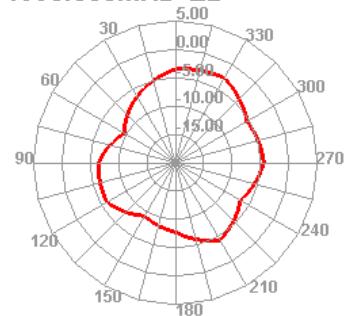
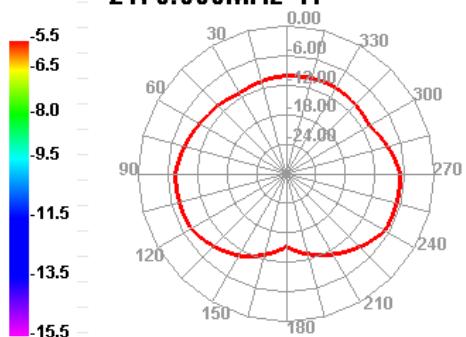
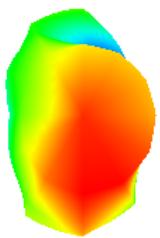
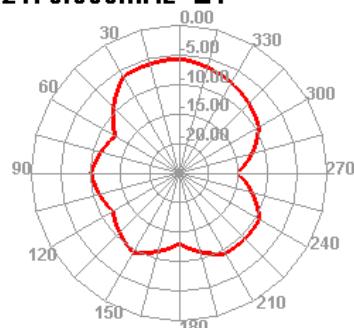
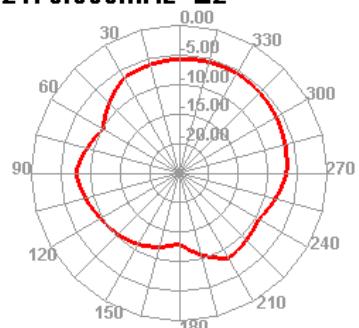


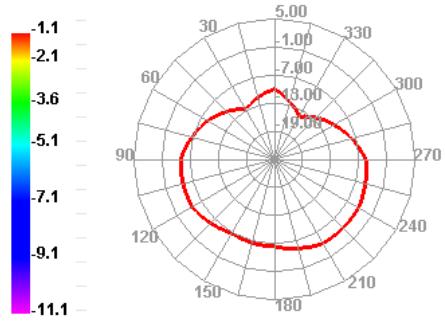
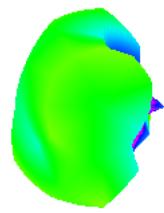
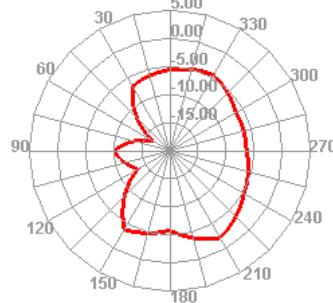
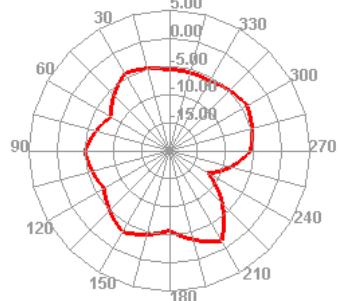
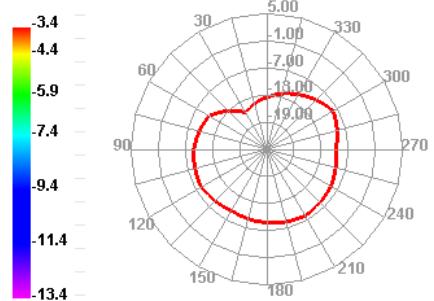
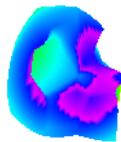
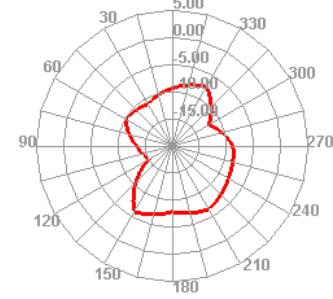
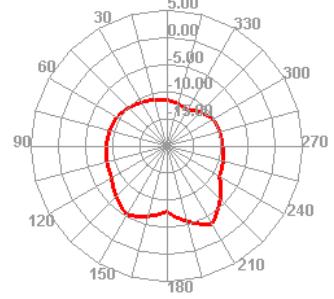
ANT2:



960.000MHz**960.000MHz H****960.000MHz E1****960.000MHz E2****1710.000MHz****1710.000MHz H****1710.000MHz E1****1710.000MHz E2**

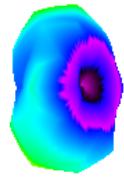
1800.000MHz**1800.000MHz E1****1800.000MHz E2**

1990.000MHz**1990.000MHz E1****1990.000MHz E2****2170.000MHz****2170.000MHz E1****2170.000MHz E2**

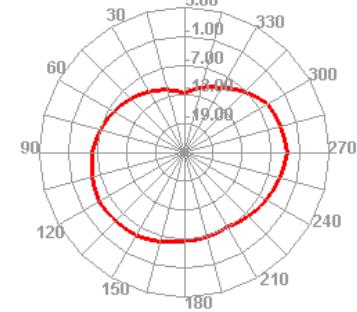
2500.000MHz**2500.000MHz E1****2500.000MHz E2****2690.000MHz****2690.000MHz E1****2690.000MHz E2**

ANT3:

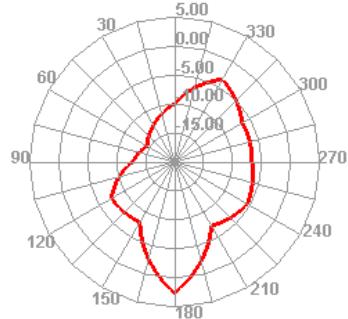
1575.000MHz



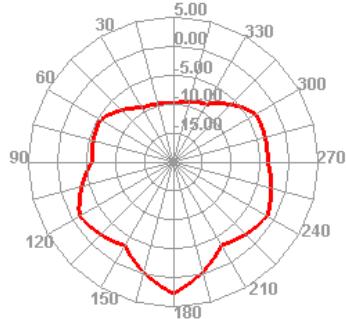
1575.000MHz H



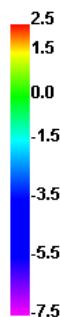
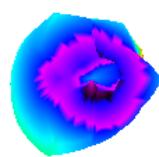
1575.000MHz E1



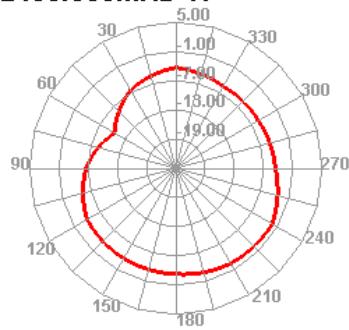
1575.000MHz E2



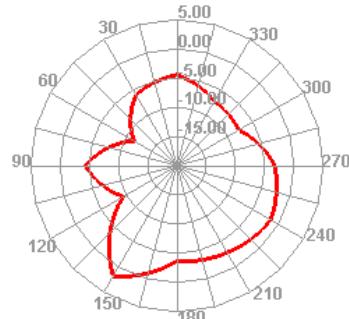
2400.000MHz



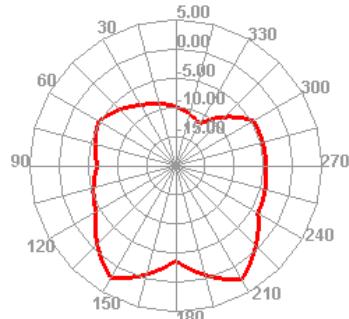
2400.000MHz H

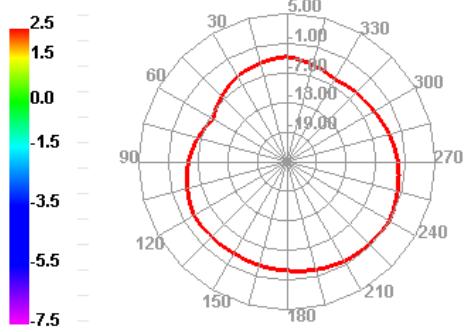
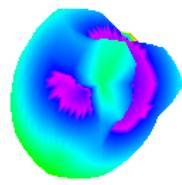
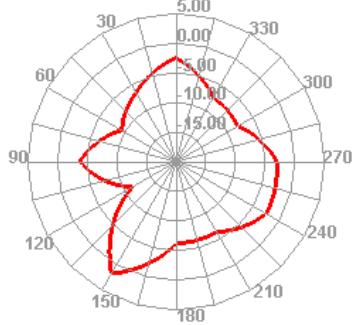
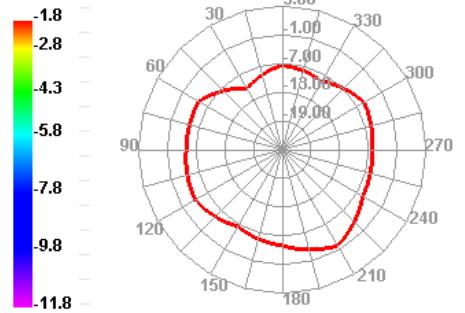
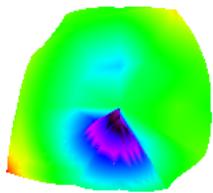
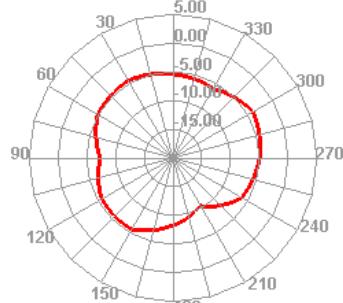
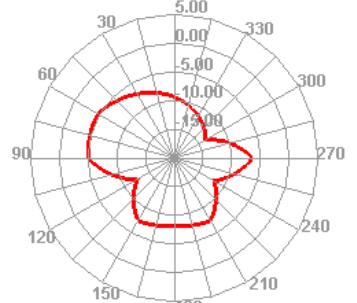


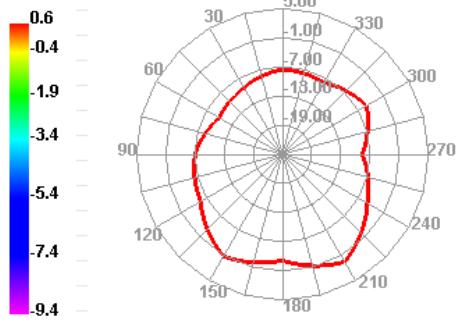
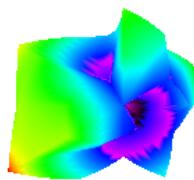
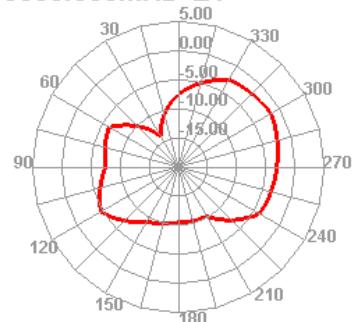
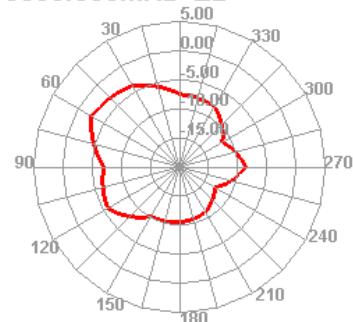
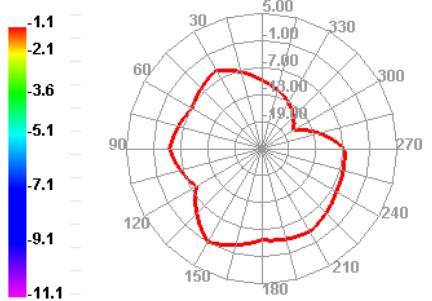
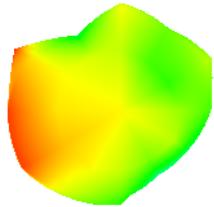
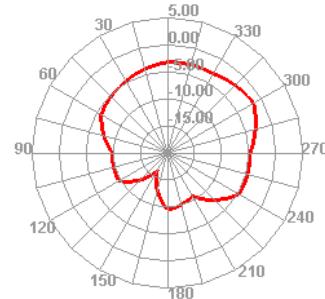
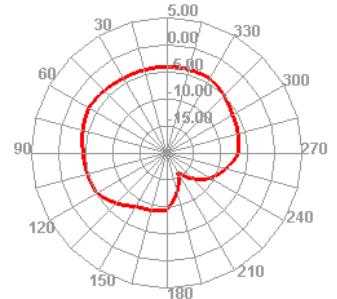
2400.000MHz E1



2400.000MHz E2



2500.000MHz**2500.000MHz E1****5200.000MHz****5200.000MHz E1****5200.000MHz E2**

5500.000MHz**5500.000MHz E1****5500.000MHz E2****5800.000MHz****5800.000MHz E1****5800.000MHz E2**

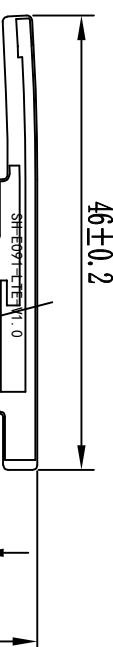
1	2	3	4	5	6	7	8
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A

A

B

B



C

C

注：

1. 斜线为走线区，黄色网格为露铜区。
 镀层：Ni: 2-7μm, Au: ≥0.05μm (盐雾要求48H)

2. 红色表示通孔，紫色线处背胶断开。

3. 表面不能刮伤露铜，电镀不良，氧化，缺口，压痕，气泡，裂纹；以及不允许有异物，脏点，偏位等现象。

4. 表面颜色为哑黑油墨，基材25μm, 铜箔18μm (一对半)。

5. 用TESA 68905的背胶，LOGO丝印白色。

6. 所用材料必须符合ROHS2.0及REACH等环保法规的要求。



深圳三好无线通信有限公司

360001 ④-□ 机 种 E091 日 期 2024-07-19

0~10 ±0.10 ○ 0.02 品 名 分集天线 设 计 李富伦

10~20 ±0.12 ⑤ 0.03 料 号 CQ-E091-02 射 频 苏李旺

20~40 ±0.15 ⑥ 0.02 材 质 电解铜+PI 项 目 类 别 手机

40~50 ±0.20 ⑦ 0.02 模面处理 位 置 外观处理 单位 mm 比例 1:1 版本 R:A

日期	修 改 内 容	版 本	修 订	5	6	7	8
1	2	3	4				

D

D

1	2	3	4	5	6	7	8
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A

C

B

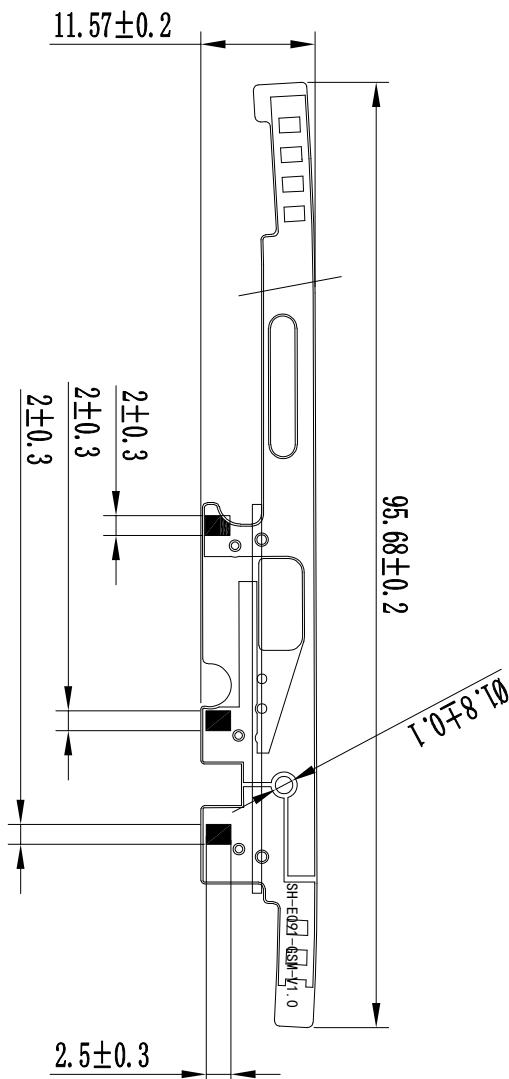
B

C

C

注：

- 斜线为走线区，黄色网格为露铜区。
镀层：Ni: 2-7μm, Au: ≥0.05μm (盐雾要求48H)
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- 表面颜色为哑黑油墨，基材25μm,铜箔18μm (一对半)。
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- 所用材料必须符合ROHS2.0及REACH等环保法规的要求。



深 圳 市 三 好 无 线 通 信 有 限 公 司

3G
4G

机 种 E091 日 期 2024-08-19
品 名 主 天 线 设 计 李 富 伦
料 号 CQ-E091-01 射 频 苏 李 旺
材 质 电 解 铜 + PI 项 目 类 别 手 机
模 面 处 理

日期	修 改 内 容	版 本	修 订	位 置	外 观 处 理	单 位	mm	比 例	1:1	版 本	R:A
1	2	3	4	5	6	7	8				

D

D