

2-3. VSWR ,Efficiency ,Matching and Active Data :

2-3.1 VSWR:

Frequency Band	880	960	1710	2170	2300	2690
2-3-1. Typical Value:	≤ 2.5	≤ 6	≤ 3	≤ 3.0	≤ 2.5	≤ 3

2-3-2 Measuring Method	<ol style="list-style-type: none"> 1. A 50Ω coaxial cable is connected to the fpcb antenna. Then this cable is connected to a network analyzer to measure the VSWR. 2. Keeping this jig away from metal at least 20 cm.
------------------------	---



UNLESS OTHER SPECIFIED TOLERANCES ON :

X=±2 X.X=±0.1 X.XX=±0.05

ANGLES=±

HOLEDIA=±

SCALE :

UNIT : mm

DRAWN BY : 黄土勇

CHECKED BY : 肖坤雄

DESIGNED BY : 苏汉鹏

APPROVED BY : 王伟

TITLE : GH6322-DIV-ANT-V2.0 Specification



KEXIN
HUACHENG
可信华成

深圳市可信华成通信科技有限公司

SHENZHEN CITY KEXIN HUACHENG COMMUNICATION TECHNOLOGY CO.,LTD

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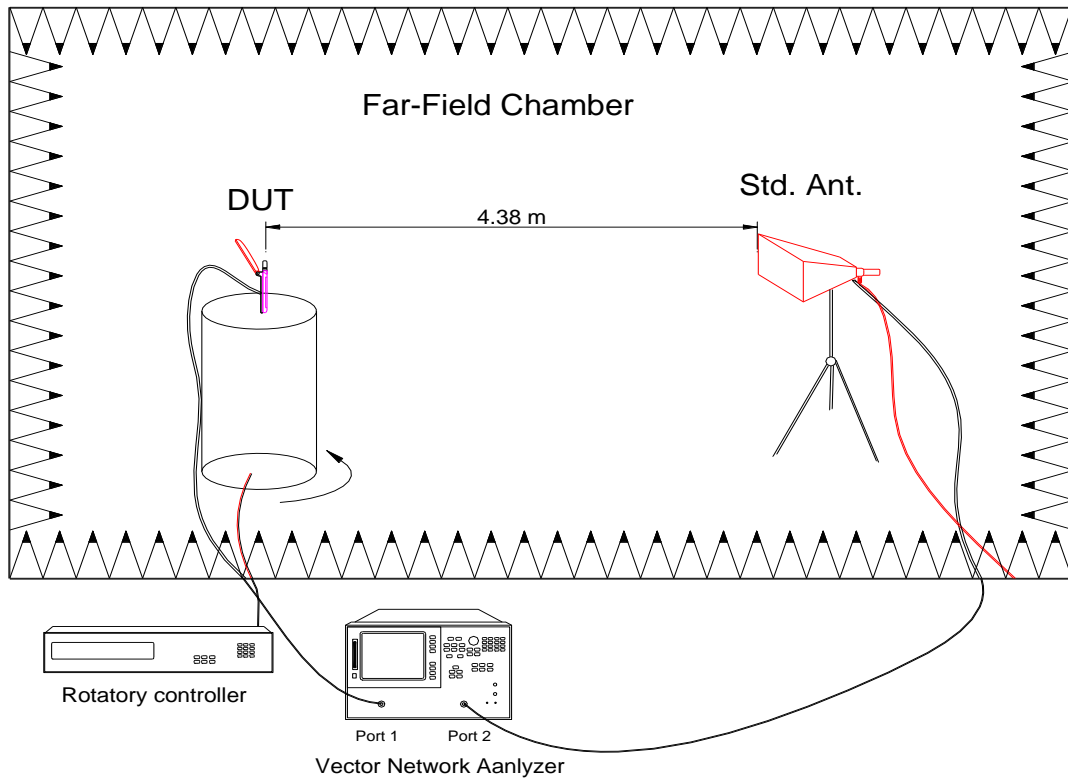
PAGE REV.
A0

2-4. Measure and Chamber

2-4-1 Measure method

1. Using a low loss coaxial cable to link a standard handset jig
2. Fixed this handset jig on chamber's rotator plane
3. Linking jig into network analyzer port and using a probing horn antenna to collect data.
4. Using another standard gain horn antenna to calibrated those data

2-4-2 Chamber definition



1. An anechoic chamber (8mx4mx3.5m) which satisfied far-field condition was applied to avoid multi-path effect
2. The quiet room region is 40cmx40cmx40cm at the center of rotator
3. The distance between DUT and standard antenna is 4.38 m
4. Probing antenna (9120D horn antenna) and standard gain horn antenna (BBHA9120 LPF 700MHz ~6GHz)

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=±2 X.X=±0.1 X.XX=±0.05

ANGLES=±

HOLEDIA=±

SCALE :

UNIT : mm

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2-4-3 Antenna Efficiency

Frequency (MHz)	RF1			RF2			RF3			RF4		
	Gain (dBi)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
700	-12.27	-16.01	3%	-9.62	-13.19	5%	-3.16	-6.80	21%			
710	-11.75	-15.59	3%	-9.41	-13.20	5%	-2.01	-5.90	26%			
720	-11.08	-15.18	3%	-8.85	-12.83	5%	-1.34	-5.18	30%			
730	-10.11	-14.41	4%	-7.35	-11.39	7%	-0.88	-4.67	34%			
740	-9.79	-13.99	4%	-6.28	-10.22	10%	-0.85	-4.60	35%			
750	-9.52	-13.69	4%	-5.45	-9.35	12%	-1.31	-4.88	33%			
760	-9.39	-13.58	4%	-4.91	-8.82	13%	-1.09	-4.90	32%			
770	-9.15	-13.15	5%	-4.71	-8.47	14%	-0.94	-5.00	32%			
780	-8.29	-12.45	6%	-4.06	-8.06	16%	-1.38	-5.26	30%			
790	-7.29	-11.65	7%	-3.23	-7.45	18%	-1.90	-5.61	27%			
800	-6.83	-11.00	8%	-2.84	-6.87	21%	-2.03	-5.78	26%			
810	-6.25	-10.28	9%	-2.28	-6.14	24%	-2.39	-6.24	24%			
820	-5.37	-9.51	11%	-1.60	-5.54	28%	-2.61	-6.81	21%			
830	-4.57	-8.84	13%	-1.08	-5.16	31%	-2.79	-7.24	19%			
840	-3.45	-8.02	16%	-0.35	-4.77	33%	-3.60	-7.82	17%			
850	-2.56	-7.35	18%	0.20	-4.46	36%	-4.51	-8.45	14%			
860	-2.08	-6.61	22%	-0.09	-4.51	35%	-5.44	-9.22	12%			
870	-1.61	-5.82	26%	-0.67	-4.80	33%	-5.92	-9.81	10%			
880	-0.86	-5.21	30%	-1.33	-5.25	30%	-6.42	-10.38	9%			
890	-0.20	-4.76	33%	-1.70	-5.82	26%	-6.91	-10.87	8%			
900	-0.02	-4.54	35%	-2.49	-6.56	22%	-7.17	-11.12	8%			
910	-0.26	-4.63	34%	-3.20	-7.33	18%	-7.22	-11.20	8%			
920	-0.91	-5.23	30%	-3.83	-8.22	15%	-7.38	-11.52	7%			
930	-1.59	-6.12	24%	-4.35	-9.02	13%	-7.80	-12.01	6%			
940	-2.41	-7.14	19%	-4.81	-9.68	11%	-8.15	-12.39	6%			
950	-3.52	-8.28	15%	-5.49	-10.16	10%	-8.30	-12.58	6%			
960	-4.51	-9.29	12%	-6.20	-10.59	9%	-8.64	-12.96	5%			
1710	-13.42	-20.30	1%	-1.86	-7.44	18%	-6.34	-10.74	8%			
1720	-13.01	-20.15	1%	-1.64	-7.23	19%	-6.39	-10.86	8%			
1730	-12.61	-19.80	1%	-1.31	-6.72	21%	-6.68	-10.94	8%			
1740	-12.29	-19.67	1%	-1.12	-6.48	23%	-6.65	-10.94	8%			
1750	-11.81	-19.40	1%	-0.98	-6.34	23%	-6.50	-10.85	8%			
1760	-11.54	-19.05	1%	-0.78	-6.10	25%	-6.51	-10.86	8%			
1770	-11.63	-19.02	1%	-0.62	-5.90	26%	-6.54	-11.05	8%			
1780	-11.54	-18.88	1%	-0.39	-5.87	26%	-6.33	-10.96	8%			
1790	-11.61	-18.72	1%	-0.33	-5.87	26%	-6.37	-10.93	8%			
1800	-11.75	-18.63	1%	-0.38	-5.69	27%	-6.55	-11.00	8%			

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=±2 X.X=±0.1 X.XX=±0.05

ANGLES=±

HOLEDIA=±

SCALE :

UNIT : mm

DRAWN BY : 黄土勇

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1810	-11.92	-18.77	1%	-0.38	-5.56	28%	-6.57	-11.02	8%			
1820	-12.07	-18.80	1%	-0.62	-5.64	27%	-6.89	-11.04	8%			
1830	-11.93	-18.59	1%	-0.87	-5.72	27%	-7.06	-11.06	8%			
1840	-11.79	-18.57	1%	-0.74	-5.65	27%	-7.01	-11.07	8%			
1850	-11.90	-18.59	1%	-0.66	-5.64	27%	-6.84	-10.94	8%			
1860	-11.16	-18.06	2%	-0.78	-5.70	27%	-6.53	-10.71	8%			
1870	-10.77	-17.77	2%	-0.74	-5.56	28%	-6.38	-10.57	9%			
1880	-11.10	-17.90	2%	-0.82	-5.60	28%	-6.32	-10.57	9%			
1890	-10.90	-17.65	2%	-1.12	-5.75	27%	-6.18	-10.46	9%			
1900	-10.48	-17.40	2%	-1.40	-5.94	25%	-6.21	-10.51	9%			
1910	-10.58	-17.38	2%	-1.44	-6.00	25%	-6.20	-10.48	9%			
1920	-10.49	-17.13	2%	-1.25	-5.90	26%	-5.86	-10.19	10%			
1930	-10.22	-16.82	2%	-1.51	-6.04	25%	-5.90	-10.15	10%			
1940	-10.35	-16.77	2%	-1.73	-6.12	24%	-6.05	-10.26	9%			
1950	-10.08	-16.52	2%	-1.60	-5.99	25%	-5.81	-10.01	10%			
1960	-9.77	-16.24	2%	-1.65	-6.07	25%	-5.63	-9.87	10%			
1970	-9.87	-16.23	2%	-1.85	-6.32	23%	-5.76	-10.09	10%			
1980	-9.67	-16.09	2%	-1.72	-6.25	24%	-5.53	-10.03	10%			
1990	-9.59	-15.95	3%	-1.71	-6.35	23%	-5.30	-9.94	10%			
2000	-9.48	-15.80	3%	-2.03	-6.60	22%	-5.43	-10.04	10%			
2010	-8.99	-15.49	3%	-2.16	-6.61	22%	-5.54	-10.02	10%			
2020	-8.62	-15.16	3%	-2.14	-6.59	22%	-5.33	-9.86	10%			
2030	-8.42	-14.89	3%	-2.25	-6.73	21%	-5.20	-9.77	11%			
2040	-8.03	-14.58	3%	-2.42	-6.88	21%	-5.26	-9.80	10%			
2050	-7.88	-14.47	4%	-2.53	-6.85	21%	-5.03	-9.73	11%			
2060	-7.83	-14.25	4%	-2.52	-6.87	21%	-4.88	-9.62	11%			
2070	-7.24	-13.73	4%	-2.43	-6.95	20%	-4.75	-9.50	11%			
2080	-7.04	-13.45	5%	-2.17	-6.86	21%	-4.49	-9.38	12%			
2090	-7.23	-13.29	5%	-2.00	-6.83	21%	-4.36	-9.27	12%			
2100	-6.65	-12.91	5%	-1.94	-6.89	20%	-4.22	-9.16	12%			
2110	-6.13	-12.66	5%	-2.03	-7.12	19%	-4.22	-9.30	12%			
2120	-6.29	-12.68	5%	-2.11	-7.26	19%	-4.26	-9.43	11%			
2130	-6.11	-12.44	6%	-2.32	-7.38	18%	-4.11	-9.44	11%			
2140	-5.38	-11.89	6%	-2.33	-7.47	18%	-3.99	-9.34	12%			
2150	-5.42	-11.70	7%	-2.33	-7.59	17%	-3.88	-9.38	12%			
2160	-5.58	-11.61	7%	-2.34	-7.65	17%	-3.78	-9.39	12%			
2170	-4.90	-11.05	8%	-2.36	-7.69	17%	-3.65	-9.27	12%			
2300	-6.90	-10.90	8%	-6.34	-11.88	6%	-8.47	-14.11	4%			
2310	-7.09	-10.86	8%	-6.75	-12.32	6%	-9.24	-14.62	3%			
2320	-6.72	-10.64	9%	-6.84	-12.39	6%	-9.48	-14.79	3%			
2330	-6.30	-10.44	9%	-6.84	-12.53	6%	-9.71	-15.04	3%			
2340	-6.32	-10.37	9%	-7.23	-12.93	5%	-10.54	-15.54	3%			
2350	-5.75	-10.10	10%	-7.65	-13.11	5%	-11.09	-15.79	3%			

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=±2 X.X=±0.1 X.XX=±0.05

ANGLES=±

HOLEDIA=±

SCALE :

UNIT : mm

DRAWN BY : 黄土勇

CHECKED BY : 肖坤雄

DESIGNED BY : 苏汉鹏

APPROVED BY : 王伟

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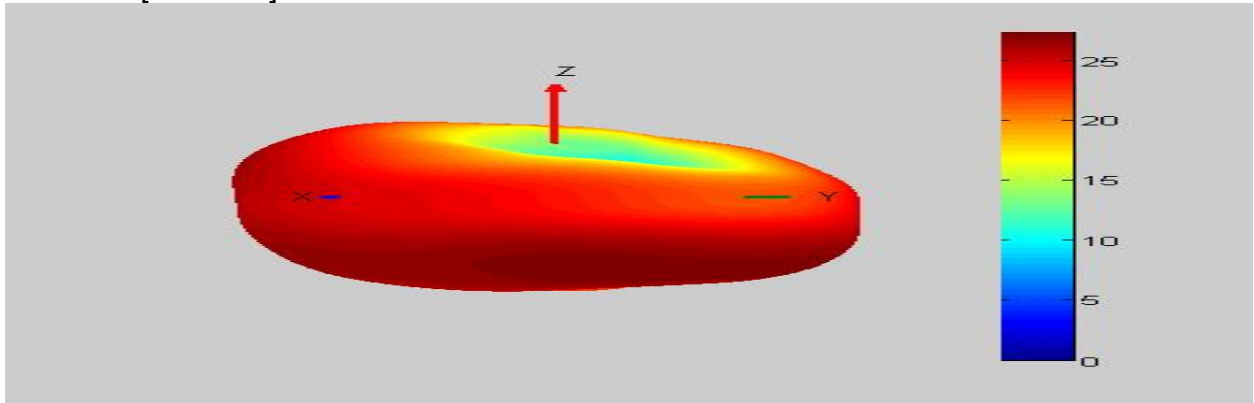
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2360	-5.20	-9.92	10%	-7.58	-13.16	5%	-11.40	-15.94	3%			
2370	-4.49	-9.74	11%	-7.44	-13.31	5%	-12.02	-16.18	2%			
2380	-4.11	-9.72	11%	-7.65	-13.59	4%	-12.43	-16.43	2%			
2390	-3.51	-9.28	12%	-7.75	-13.65	4%	-11.83	-16.28	2%			
2400	-2.96	-8.75	13%	-7.62	-13.57	4%	-12.04	-16.32	2%			
2500	-0.29	-6.57	22%	-9.88	-14.97	3%	-9.51	-16.77	2%			
2510	-0.34	-6.71	21%	-9.34	-14.70	3%	-8.63	-16.31	2%			
2520	-0.73	-6.94	20%	-8.91	-14.47	4%	-8.05	-15.99	3%			
2530	-0.86	-7.23	19%	-8.74	-14.22	4%	-7.78	-15.68	3%			
2540	-0.94	-7.45	18%	-8.30	-13.94	4%	-7.39	-15.23	3%			
2550	-1.25	-7.73	17%	-8.21	-14.05	4%	-7.53	-15.11	3%			
2560	-1.41	-7.93	16%	-8.12	-14.21	4%	-7.95	-15.10	3%			
2570	-1.49	-8.08	16%	-7.74	-14.19	4%	-8.18	-14.94	3%			
2580	-1.76	-8.19	15%	-7.72	-14.35	4%	-8.78	-14.97	3%			
2590	-1.94	-8.30	15%	-7.75	-14.45	4%	-9.39	-15.08	3%			
2600	-1.99	-8.44	14%	-7.62	-14.37	4%	-9.66	-15.14	3%			
2610	-2.29	-8.76	13%	-7.66	-14.29	4%	-10.00	-15.27	3%			
2620	-2.57	-9.09	12%	-7.68	-14.27	4%	-10.24	-15.48	3%			
2630	-2.77	-9.27	12%	-7.10	-13.84	4%	-9.90	-15.34	3%			
2640	-3.22	-9.57	11%	-6.71	-13.50	4%	-9.65	-15.23	3%			
2650	-3.66	-9.90	10%	-6.46	-13.42	5%	-9.27	-15.27	3%			
2660	-3.76	-9.93	10%	-5.42	-12.82	5%	-8.07	-14.78	3%			
2670	-3.94	-10.00	10%	-4.90	-12.40	6%	-7.39	-14.39	4%			
2680	-4.36	-10.30	9%	-4.87	-12.28	6%	-7.24	-14.25	4%			
2690	-4.56	-10.30	9%	-4.27	-11.84	7%	-6.50	-13.75	4%			

3. Antenna 3D Radiation Pattern

-LTE B28[700MHz]



-LTE B28[800MHz]

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=±2 X.X=±0.1 X.XX=±0.05

ANGLES=±1

HOLEDIA=±

SCALE :

UNIT : mm

DRAWN BY : 黄土勇

CHECKED BY : 肖坤雄

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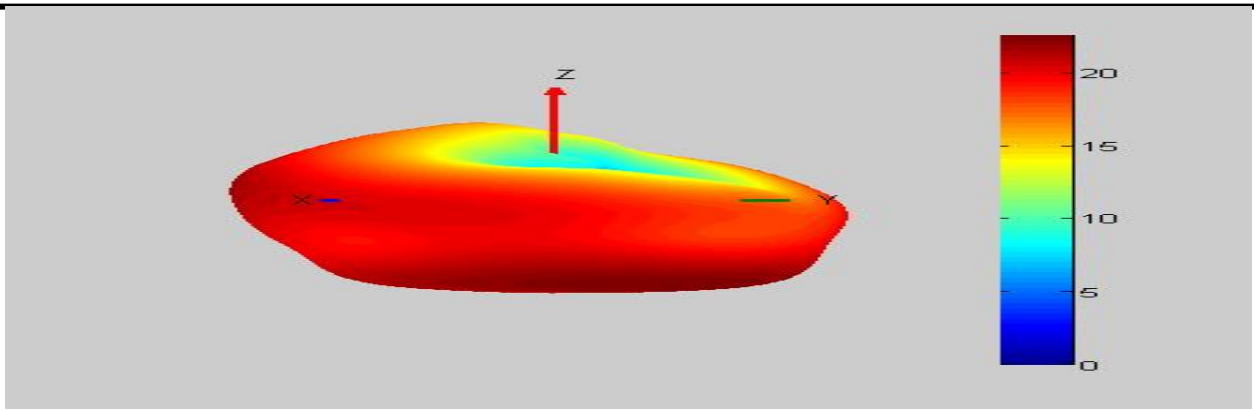
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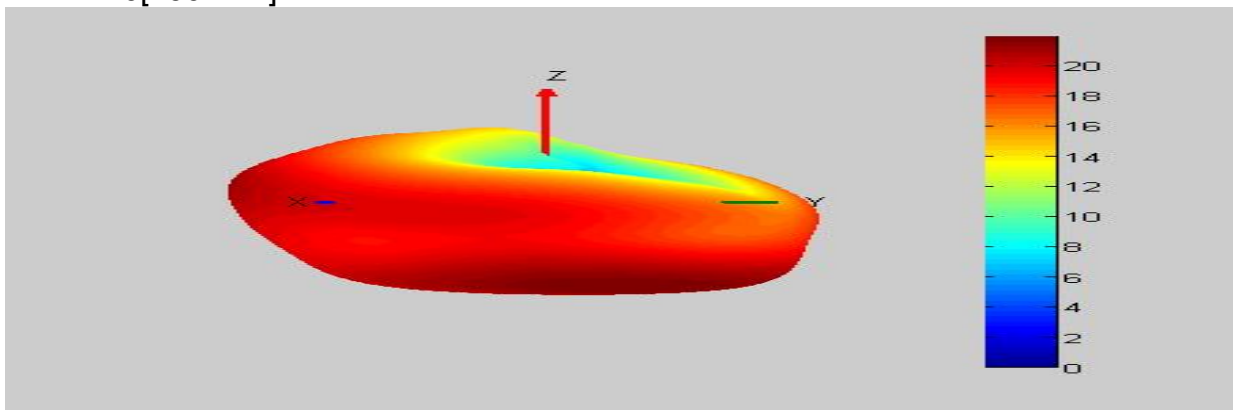
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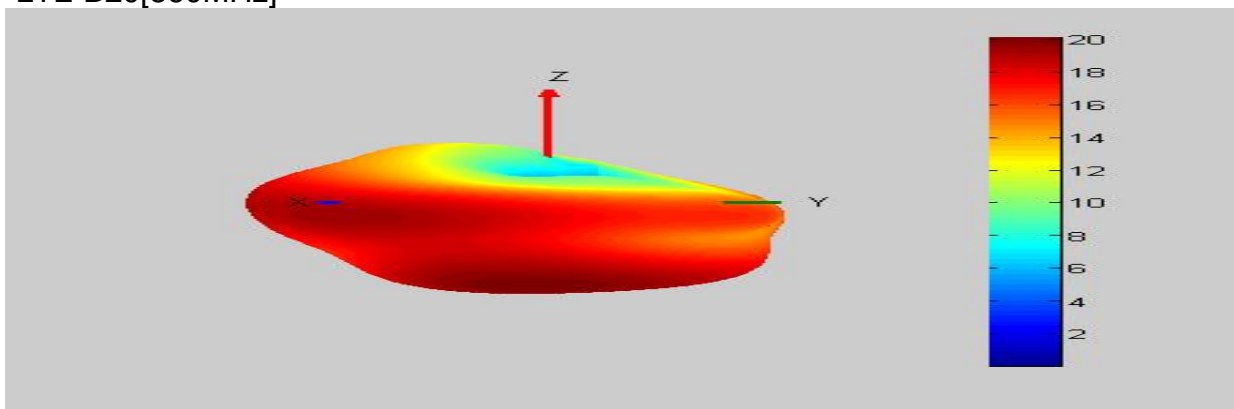
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-LTE B20[790MHz]



-LTE B20[860MHz]



-LTE B5[820MHz]

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=±2 X.X=±0.1 X.XX=±0.05

ANGLES=±

HOLEDIA=±

SCALE :

UNIT : mm

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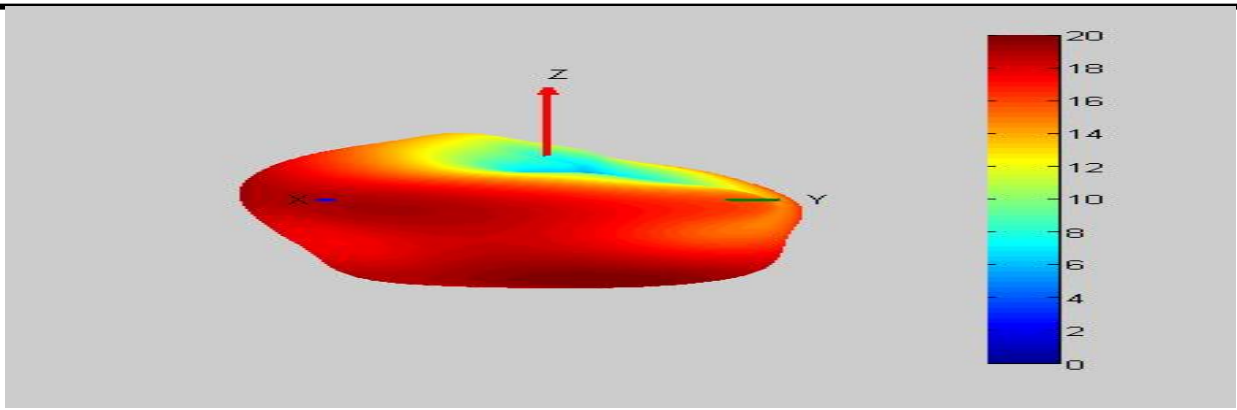
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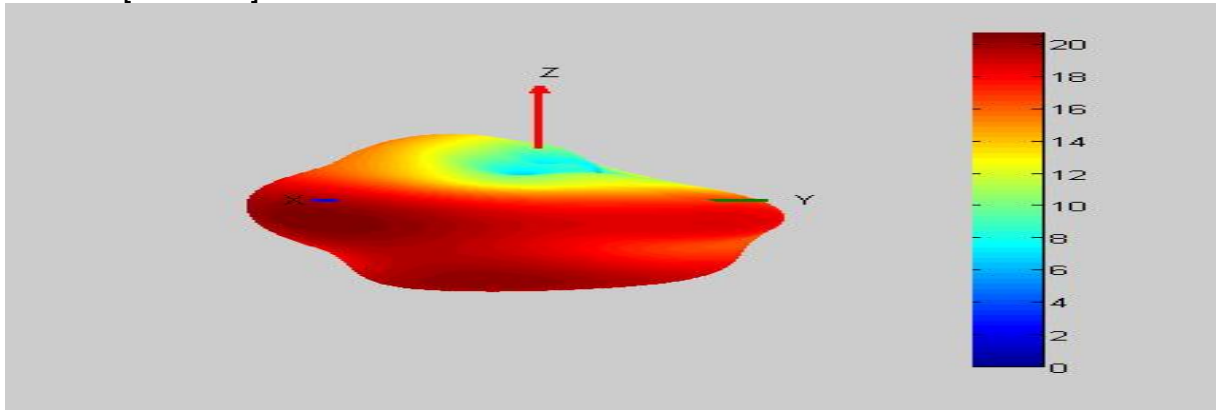
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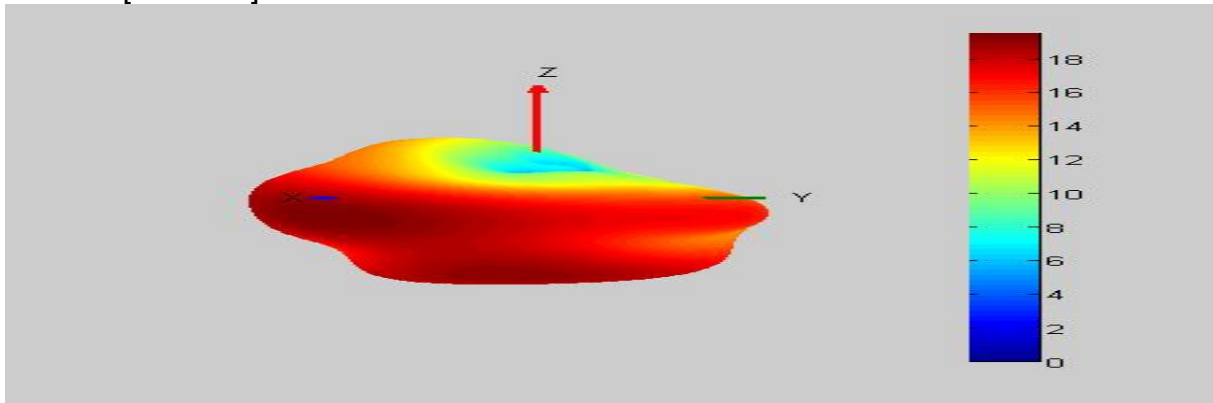
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-LTE B5[890MHz]



-LTE B8[880MHz]



-LTE B8[960MHz]

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=±2 X.X=±0.1 X.XX=±0.05

ANGLES=±

HOLEDIA=±

SCALE :

UNIT : mm

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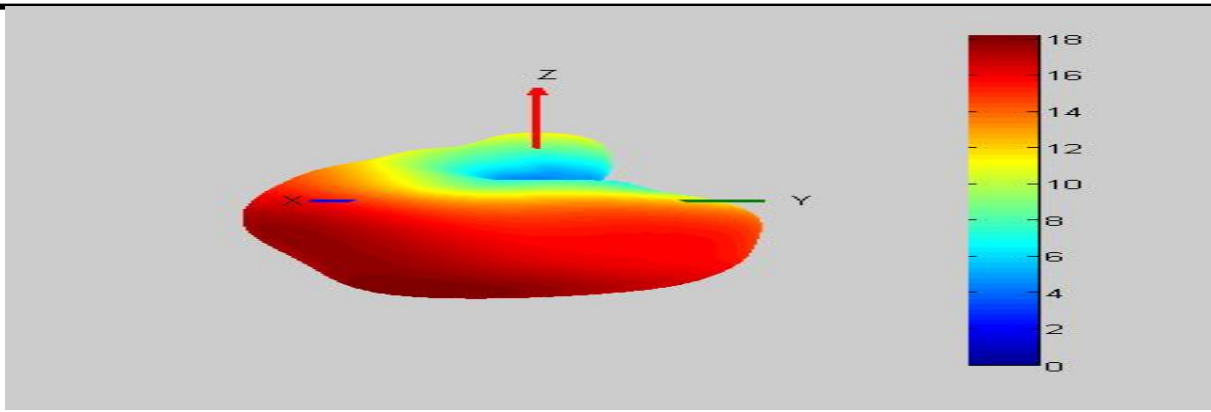
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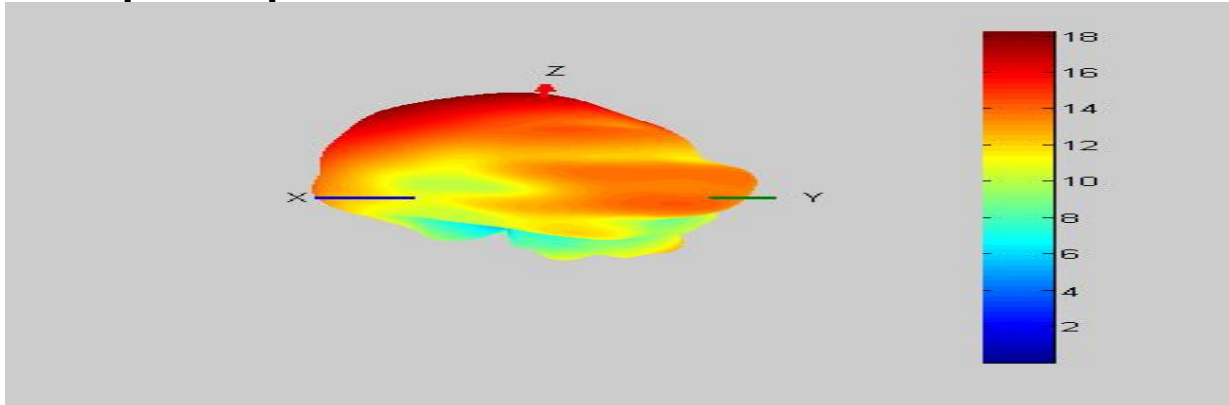
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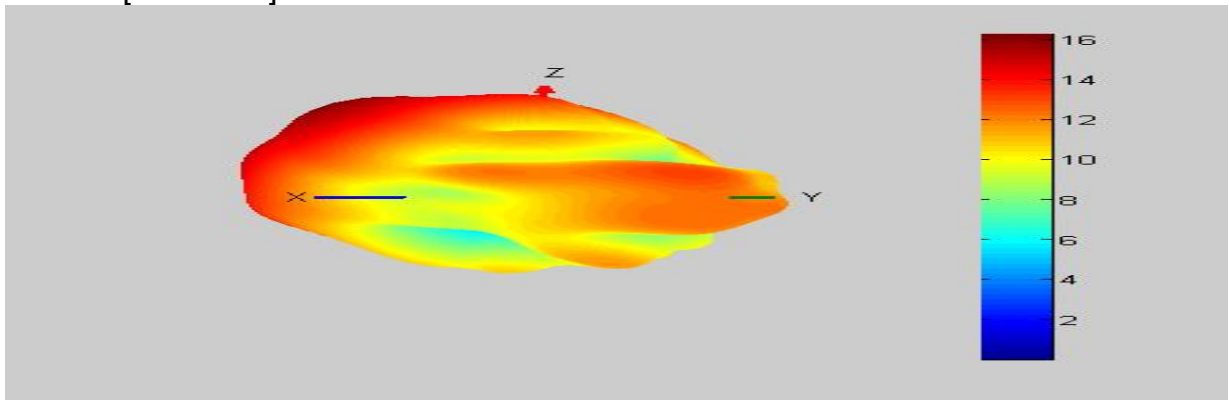
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-LTE B3[1710MHz]



-LTE B3[1880MHz]



-LTE B2[1850MHz]

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=±2 X.X=±0.1 X.XX=±0.05

ANGLES=±

HOLEDIA=±



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SHENZHEN CITY KEXIN HUACHENG COMMUNICATION TECHNOLOGY CO.,LTD

SCALE :

UNIT : mm

DRAWN BY : 黄土勇

CHECKED BY : 肖坤雄

DESIGNED BY : 苏汉鹏

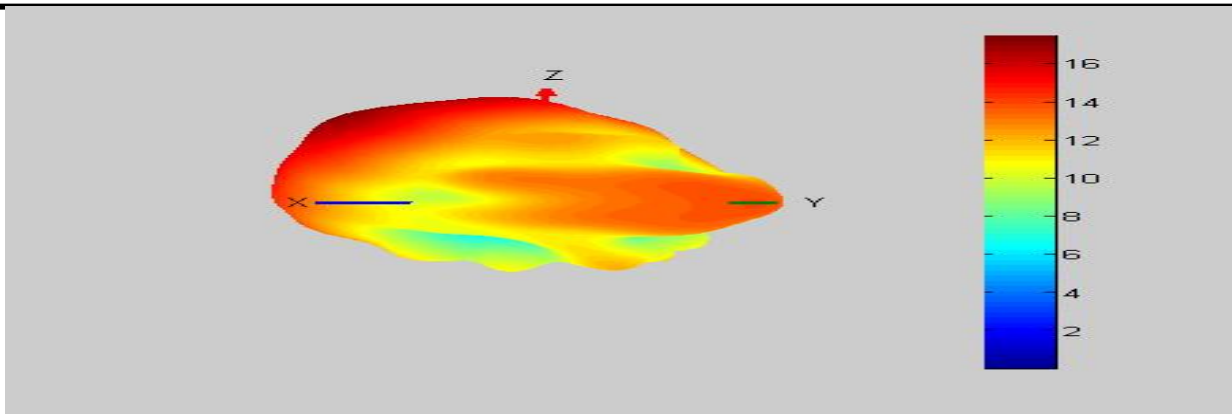
APPROVED BY : 王伟

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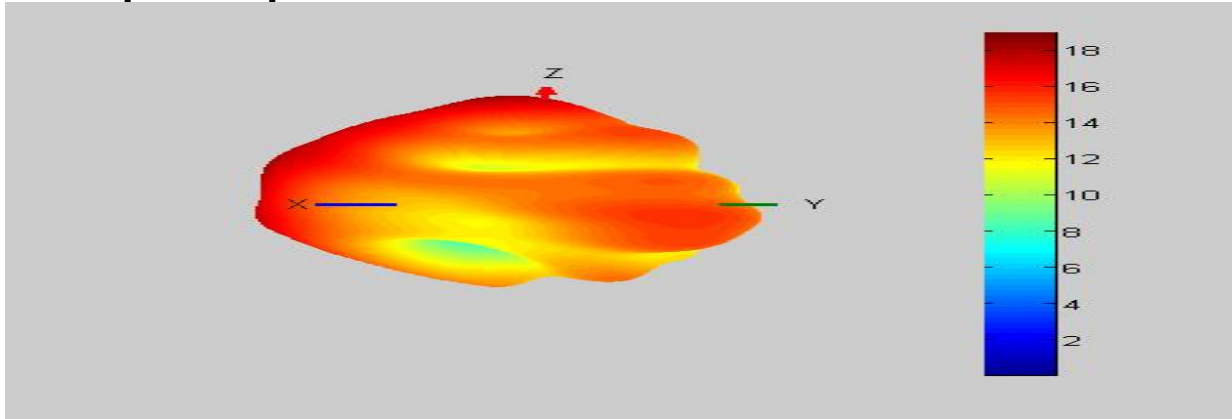
TITLE : GH6322-DIV-ANT-V2.0Specification

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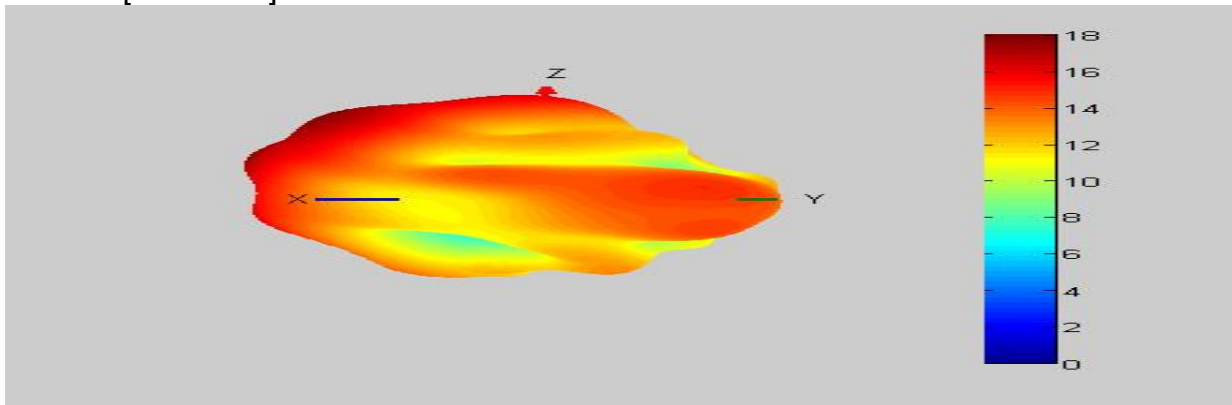
PAGE REV.
A0



-LTE B2[1990MHz]



-LTE B1[1920MHz]



-LTE B1[2170MHz]

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=±2 X.X=±0.1 X.XX=±0.05

ANGLES=±

HOLEDIA=±



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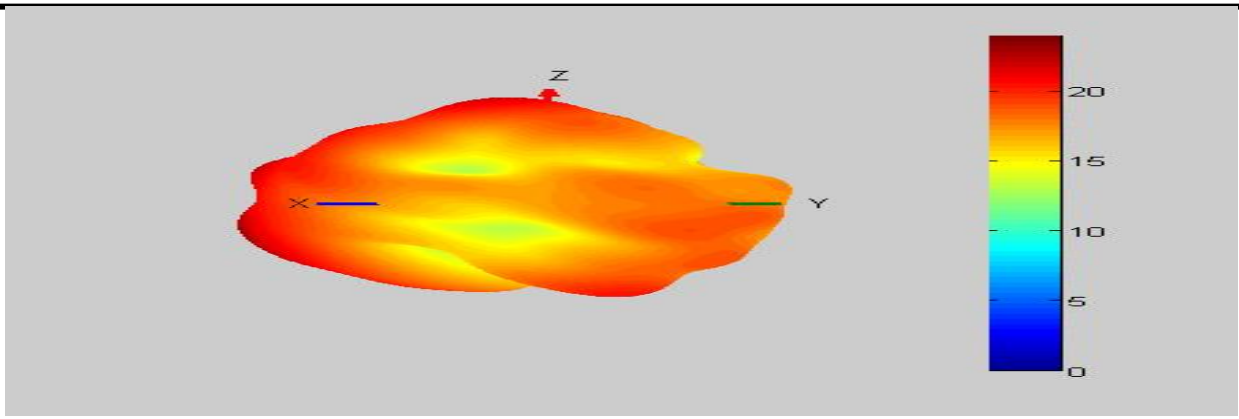
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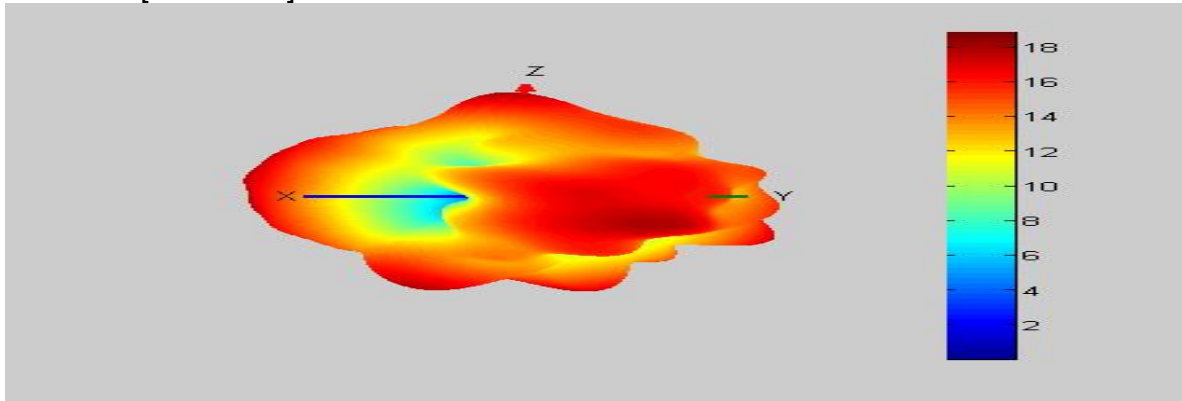
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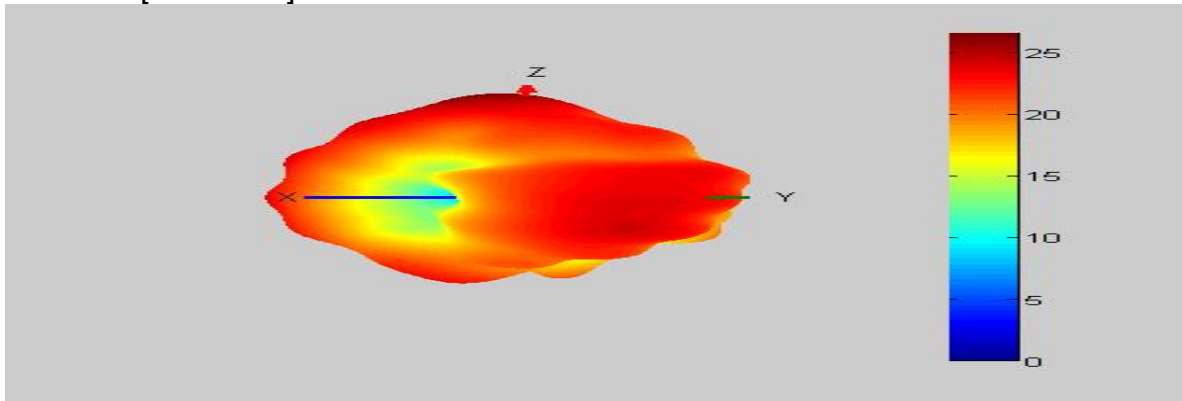
PAGE REV.
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-LTE B40[2300MHz]



-LTE B40[2400MHz]



-LTE B7[2500MHz]

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=±2 X.X=±0.1 X.XX=±0.05

ANGLES=±

HOLEDIA=±

SCALE :

UNIT : mm

DRAWN BY : 黄土勇

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APPROVED BY : 王伟

TITLE : GH6322-DIV-ANT-V2.0Specification

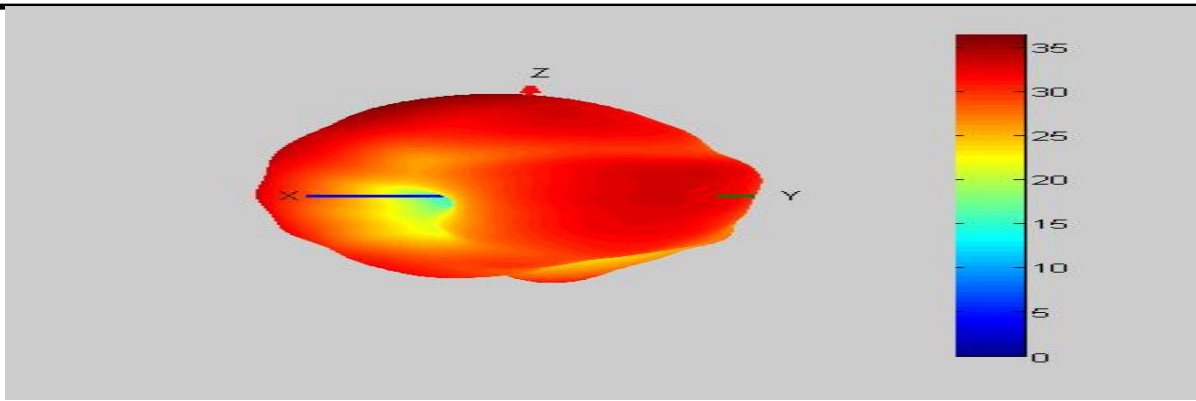


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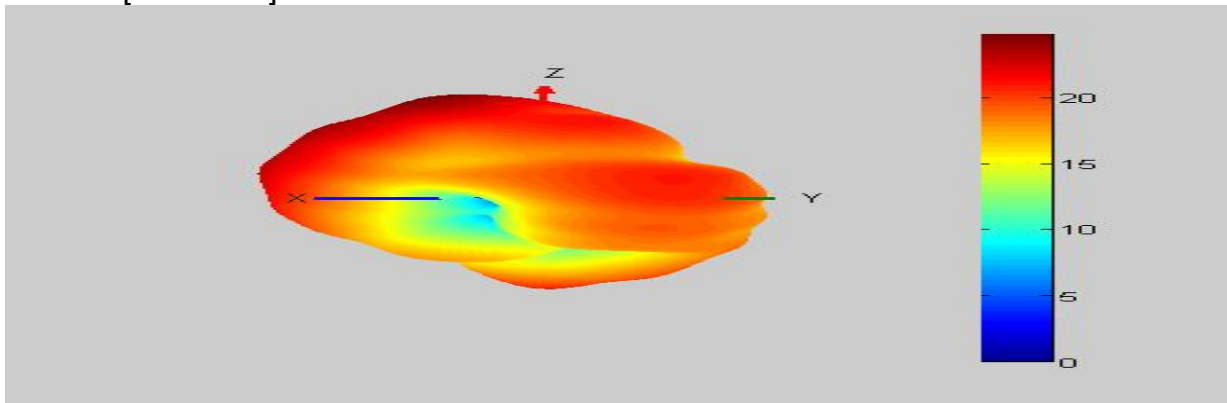
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DOCUMENT
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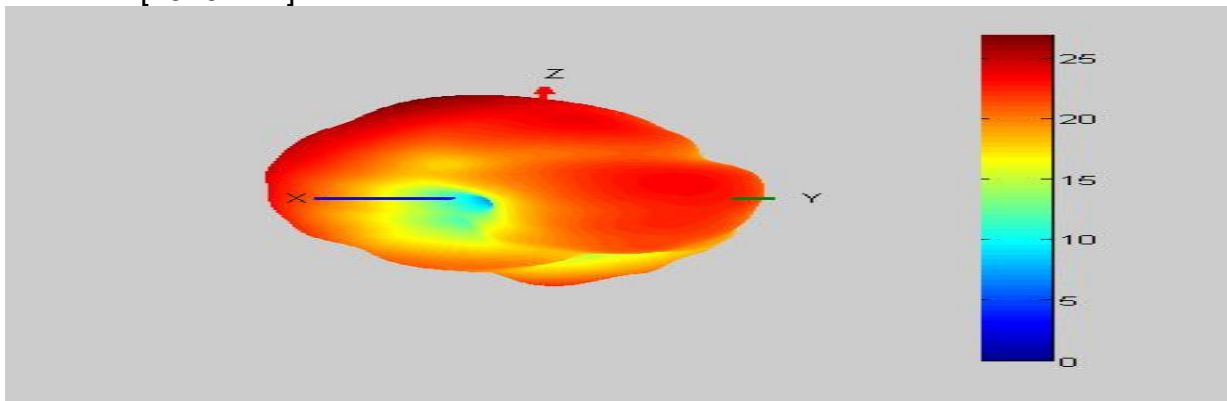
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-LTE B7[2620MHz]



-LTE B41[2570MHz]



-LTE B41[2650MHz]

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=±2 X.X=±0.1 X.XX=±0.05

ANGLES=±

HOLEDIA=±

SCALE :

UNIT : mm

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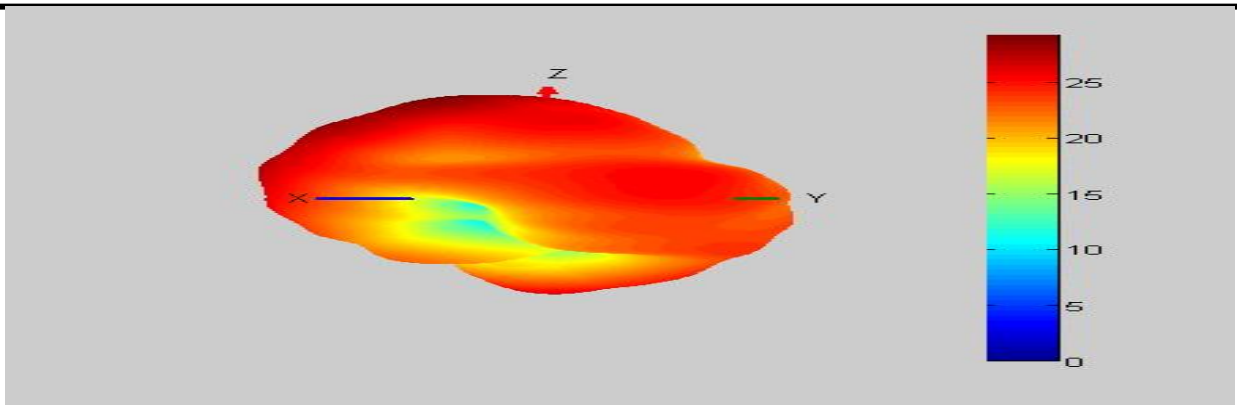
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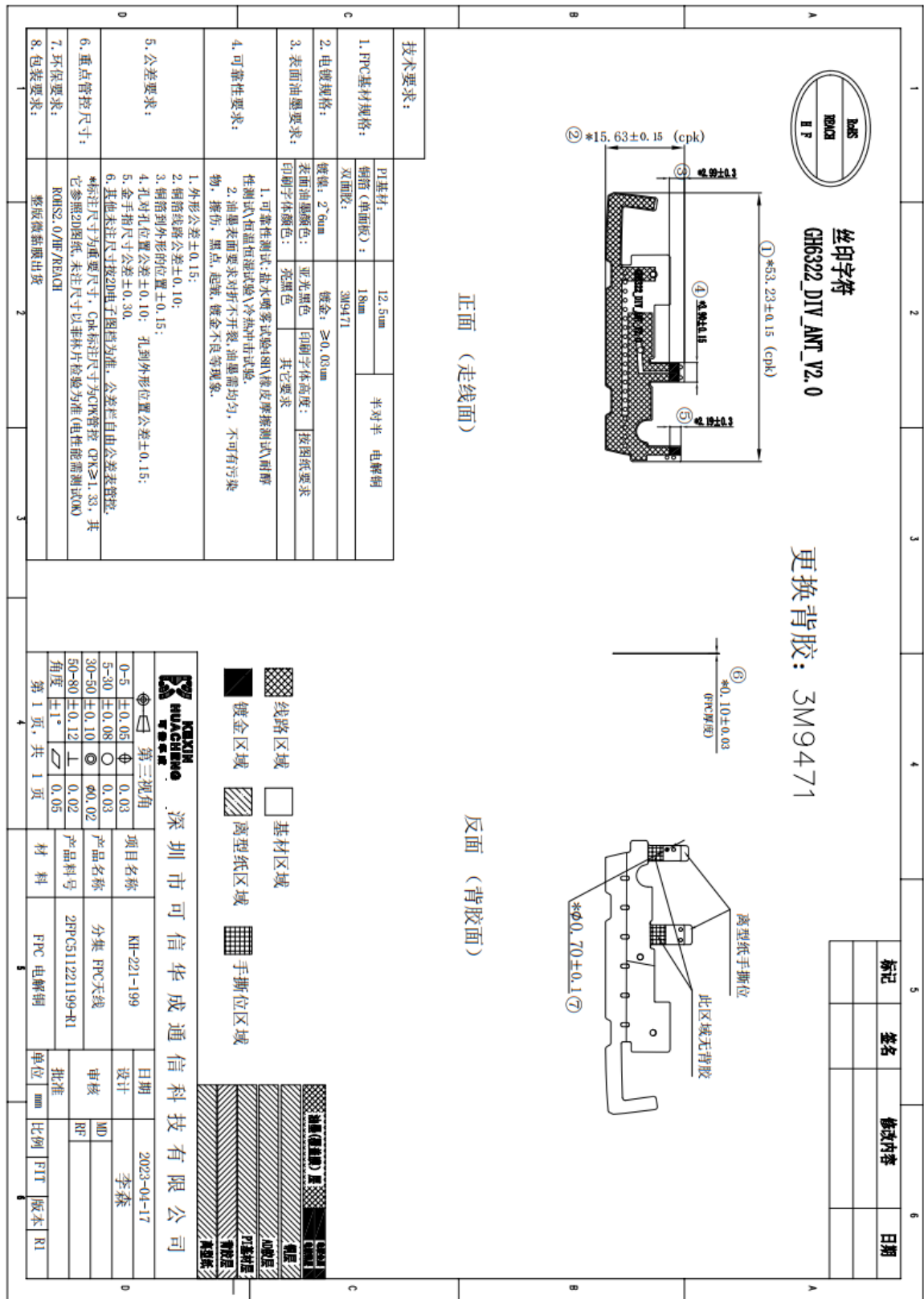
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4. Antenna Dimensions:

UNLESS OTHER SPECIFIED TOLERANCES ON :		 深圳市可信华成通信科技有限公司 SHENZHEN CITY KEXIN HUACHENG COMMUNICATION TECHNOLOGY CO.,LTD	
X=±2	X.X=±0.1 X.XX=±0.05		
ANGLES=±	HOLEDIA=±	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF KEXIN HUACHENG COMMUNICATION TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION	
SCALE :	UNIT : mm		
DRAWN BY : 黄土勇	CHECKED BY : 肖坤雄		
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TITLE : <u>GH6322-DIV-ANT-V2.0</u> Specification		DOCUMENT NO.	PAGE REV. A0



丝印字符
GH6322_DIV_ANT_V2.0

更换背胶: 3M9471

正面 (走线面)

反面 (背胶面)

标记	签名	修改内容	日期

技术要求:	
1. FPC基材规格:	PI基材: 12.5mm 铜箔(单面版): 18um 双面胶: 3M9471
2. 电镀规格:	镀金: ≥0.03um 镀镍: 2~6um
3. 表面油墨要求:	表面油墨颜色: 亚光黑色 印刷字体颜色: 亮黑色 印刷字体高度: 按图纸要求 其它要求:
4. 可靠性要求:	1. 可靠性测试: 盐水喷雾试验48H\橡皮摩擦测试\耐腐蚀性测试\恒温恒湿试验\冷热冲击试验. 2. 油墨表面要求: 对折不开裂, 油墨需均匀, 不可有污染, 擦伤, 黑点, 起泡, 镀金不良等现象.
5. 公差要求:	1. 外形公差±0.15; 2. 铜箔线宽公差±0.10; 3. 铜箔到外形的位置公差±0.15; 4. 孔对孔位置公差±0.10; 5. 金手指尺寸公差±0.30; 6. 其他未注尺寸按2D电子图档为准, 公差按自由公差表管控.
6. 重点管控尺寸:	*标注尺寸为重要尺寸, Cpk标注尺寸为Cpk管控, Cpk≥1.33, 其它参照2D图纸, 未注尺寸以菲林片检验为准(电性能需测试OK)
7. 环保要求:	RoHS2.0/REACH
8. 包装要求:	整板真空袋出货

第三规范	项目名称	日期	设计	审核	批准
0-5 ±0.05	KH-221-199	2023-04-17	李森		
5-30 ±0.08	产品名称				
30-50 ±0.10	分集 FPC天线				
50-80 ±0.12	产品料号				
角度 ±1°	2PFC511221199-R1				



材料	材料	单位	比例	FIT	版本
第 1 页, 共 1 页	FPC 电解铜	mm	1:1	FIT	R1

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=±2 X.X=±0.1 X.XX=±0.05

ANGLES=± HOLEDIA=±

SCALE : UNIT : mm

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