

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A1)

CUSTOMER(客户名称)	TCL通力	
CS P/N(客户机种)	TOUR2	WR2
PART NAME(品名)	BT天线组件	外露线长L=24mm
FREQUENCY(频率)	2.4~2.5GHz	
ZTX NO.(物料编号)	2.00005577	
DATE(日期)	2022-06-23	

CUSTOMER			
QA CHECKED	ME CHECKED	RF CHECKED	MANAGER CHECKED

Remark(备注):

Sign(客户确认签字盖章): _____

ZHONG TIAN XUN TECHNOLOGY CO., LTD				
MANAGER CHECKED	MANAGER CHECKED	ME CHECKED	RF CHECKED	LISTER
		韦英俊	江泽峰	



深圳市中天迅通信技术有限公司

SHENZHEN ZHONGTIAN XUN Communication Technology Co.,Ltd.

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ANTENNA SPECIFICATION

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ZTX P/N :TOUR2 (WR2) BT天线组件

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Revision history

版本	日期	状态
A1	2022-06-23	首版



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ANTENNA SPECIFICATION

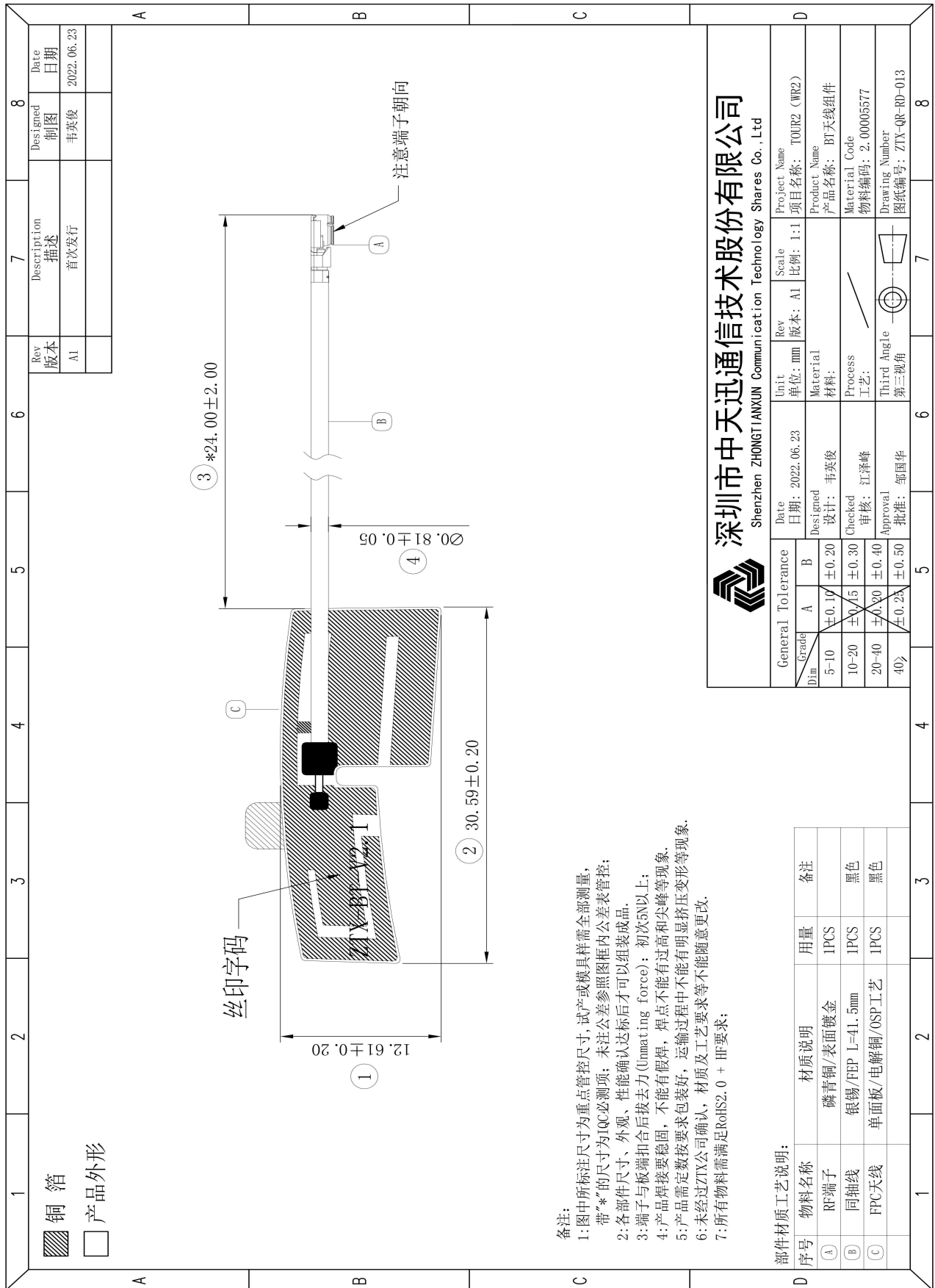
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1. Mechanical Specification

1-1 Mechanical Configuration (TOUR2 (WR2) BT天线)



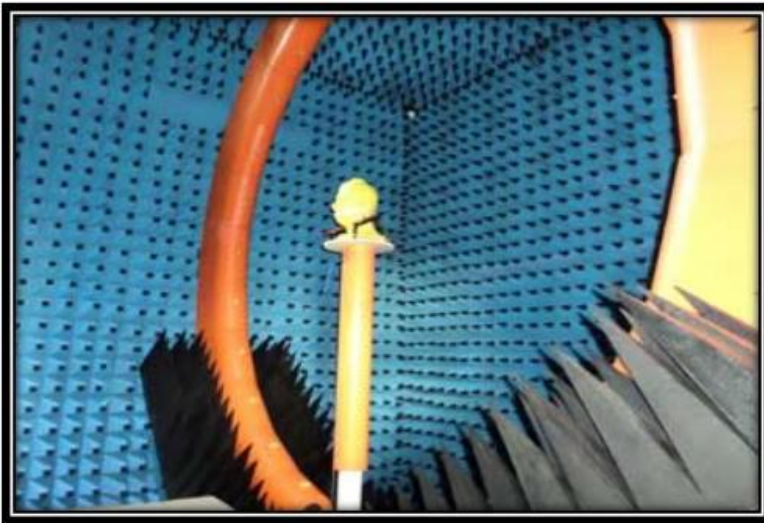
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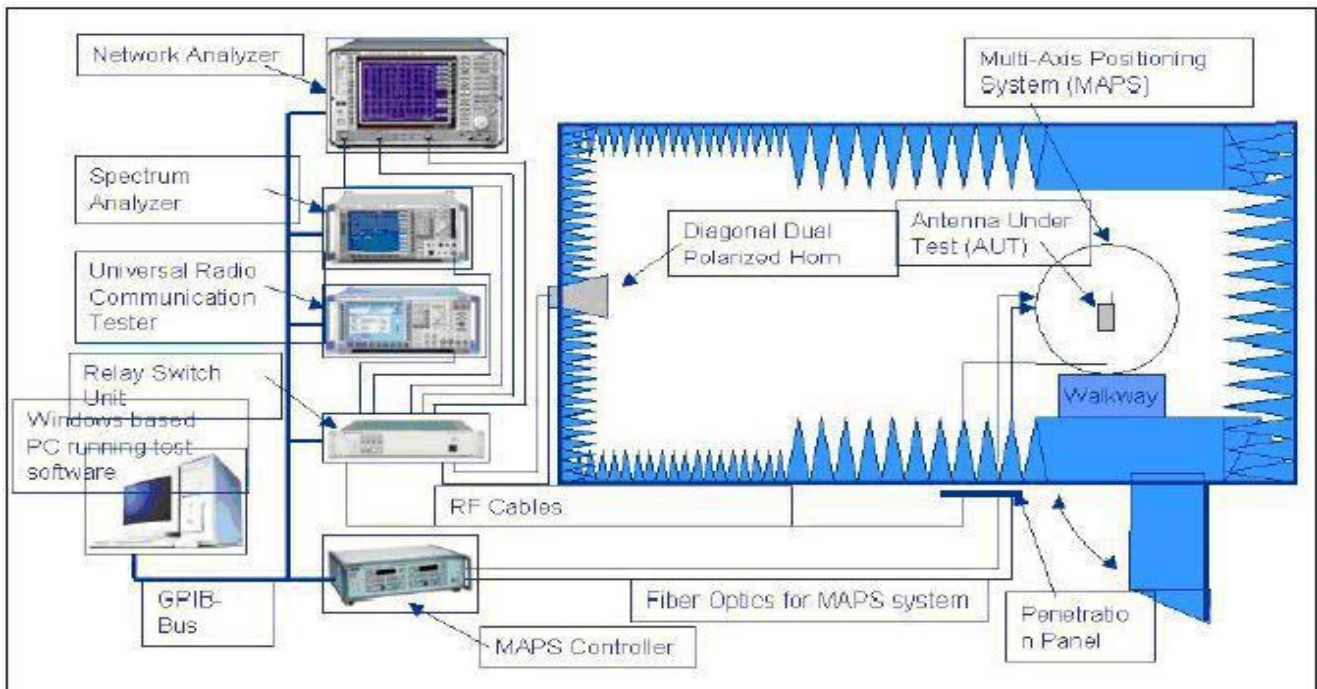
2. Test equipment



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 CITA 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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3.Antenna test data

3-1 Test Data

信道	0	39	78
TRP	-4.2	-2.15	-3.21
TIS	-89.68	-90.41	-90.23

Elevations	2.441 GHz 0 Total	2.441 GHz 30 Total	2.441 GHz 60 Total	2.441 GHz 90 Total	2.441 GHz 120 Total	2.441 GHz 150 Total
-150	2	1	-1.05	-2.82	-7.21	-10.59
-120	-4.23	-7.85	-10.11	-17.11	-15.99	-17.65
-90	-1.36	-6.71	-8.4	-10.78	-13.64	-13.32
-60	-1.53	-2.66	-9.73	-13.86	-10.09	-13.49
-30	-3.21	-3.42	-5.33	-8.73	-9.56	-9.1
0	-5.65	-6.11	-6.21	-5.98	-5.44	-5.52
30	-10.9	-8.35	-8.18	-8.83	-8.02	-5.14
60	-8.23	-14.05	-8.22	-9.51	-10.88	-3.58
90	-15.98	-10.38	-9.69	-5.25	-3.57	-2.17
120	-13.97	-17.89	-11.58	-5.36	-1.42	0.14
150	-8.42	-11.65	-5.95	-3.45	-0.14	1.81

Elevations	2.441 GHz 0 Total	2.441 GHz 30 Total	2.441 GHz 60 Total	2.441 GHz 90 Total	2.441 GHz 120 Total	2.441 GHz 150 Total
-150	-97.72	-96.72	-94.67	-92.9	-88.51	-85.13
-120	-91.49	-87.87	-85.61	-78.61	-79.73	-78.06
-90	-94.36	-89.01	-87.32	-84.94	-82.08	-82.4
-60	-94.19	-93.06	-85.99	-81.86	-85.63	-82.23
-30	-92.5	-92.3	-90.39	-86.99	-86.16	-86.62
0	-90.07	-89.61	-89.5	-89.74	-90.28	-90.19
30	-84.82	-87.37	-87.54	-86.89	-87.7	-90.58
60	-87.49	-81.67	-87.5	-86.21	-84.83	-92.14
90	-79.74	-85.34	-86.03	-90.47	-92.15	-93.55
120	-81.75	-77.83	-84.14	-90.35	-94.3	-95.86
150	-87.3	-84.07	-89.76	-92.26	-95.58	-97.53



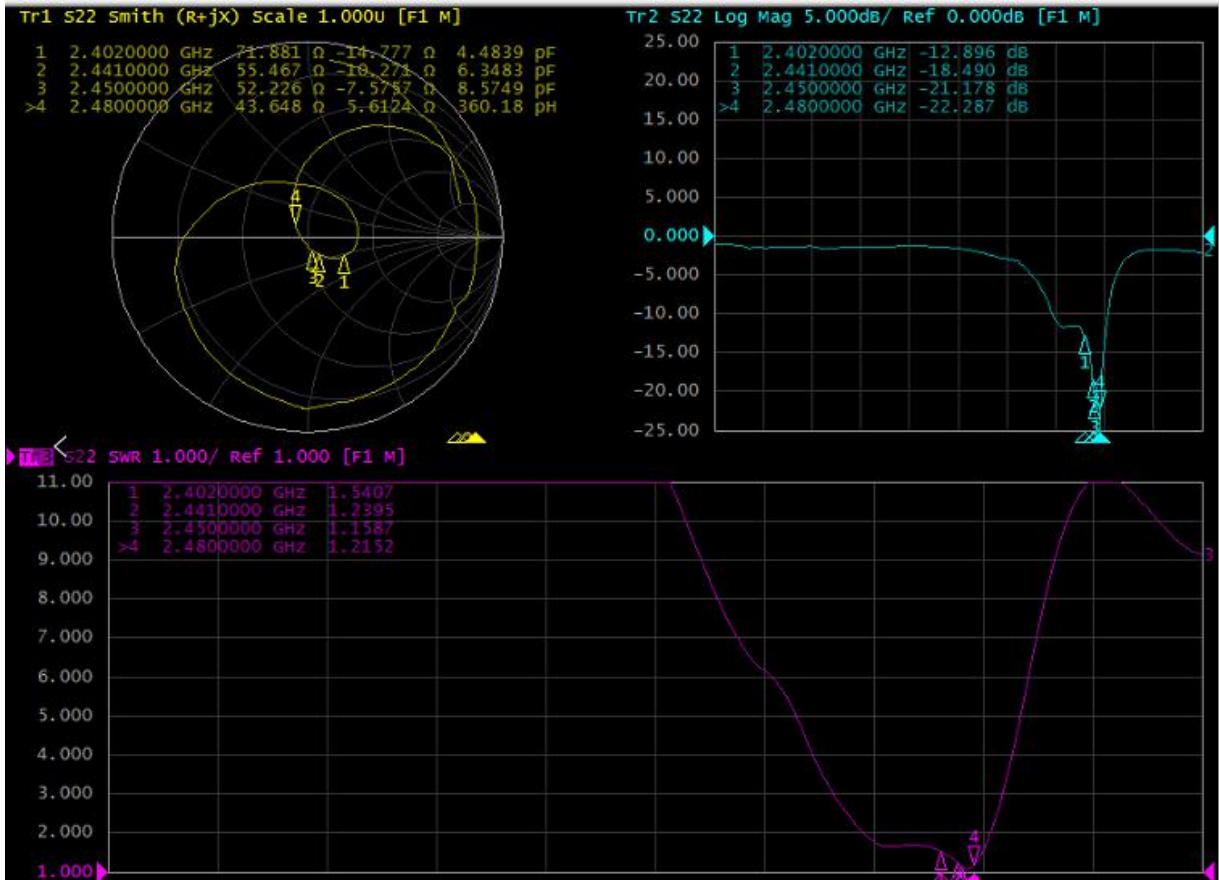
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3-2 VSWR&Return loss plot&Smith Chart



3-3 No-source test data

Phi Frequency=2440 (MHz)													
Phi	-180	-150	-120	-90	-60	-30	0	30	60	90	120	150	180
0	-10.17	-2.67	-16.91	-4.86	-4.42	-3.53	-14.63	-18.07	-13.48	-18.02	-22.36	-11.95	-10.17
30	-11.85	-2.48	-24.29	-6.74	-6.72	-5.14	-11.44	-6.82	-11.70	-10.42	-19.37	-26.26	-11.85
60	-17.14	-3.59	-26.90	-12.45	-15.98	-13.85	-8.93	-9.88	-19.98	-16.05	-15.30	-10.71	-17.14
90	-23.70	-4.00	-23.67	-23.96	-17.65	-10.16	-8.33	-12.96	-23.79	-19.67	-18.96	-12.32	-23.70
120	-14.54	-11.32	-25.10	-22.42	-13.27	-5.30	-9.60	-9.35	-7.42	-8.30	-18.24	-4.94	-14.54
150	-10.91	-9.07	-15.90	-22.36	-7.27	-10.93	-12.73	-4.26	-4.24	-6.89	-10.17	-3.93	-10.91
180	-10.17	-2.67	-16.91	-4.86	-4.42	-3.53	-14.63	-18.07	-13.48	-18.02	-22.36	-11.95	-10.17
Theta Frequency=2440 (MHz)													
Theta	-180	-150	-120	-90	-60	-30	0	30	60	90	120	150	180
0	-23.70	-11.47	-19.21	-10.67	-16.72	-13.93	-8.33	-8.12	-9.83	-13.55	-17.68	-12.72	-23.70
30	-14.54	-9.02	-18.42	-8.29	-15.60	-8.30	-9.60	-8.40	-9.90	-13.26	-22.53	-13.18	-14.54
60	-10.91	-3.32	-21.31	-10.90	-13.82	-4.50	-12.73	-5.84	-10.81	-10.48	-9.53	-10.26	-10.91
90	-10.17	-3.93	-22.39	-11.31	-11.08	-11.17	-14.63	-4.25	-7.95	-13.06	-4.83	-11.93	-10.17
120	-11.85	-10.05	-13.64	-18.64	-27.54	-25.76	-11.44	-6.35	-5.19	-24.49	-6.28	-7.17	-11.85
150	-17.14	-15.37	-14.10	-11.12	-11.95	-9.31	-8.93	-9.24	-11.36	-9.81	-8.92	-9.96	-17.14
180	-23.70	-11.47	-19.21	-10.67	-16.72	-13.93	-8.33	-8.12	-9.83	-13.55	-17.68	-12.72	-23.70
Total Frequency=2440 (MHz)													
Phi	-180	-150	-120	-90	-60	-30	0	30	60	90	120	150	180
0	-9.98	-2.13	-14.90	-3.85	-4.17	-3.15	-7.41	-7.70	-8.27	-12.22	-16.41	-9.31	-9.98
30	-9.98	-1.61	-17.42	-4.44	-6.20	-3.43	-7.41	-4.53	-7.70	-8.60	-17.66	-12.97	-9.98
60	-9.98	-0.44	-20.25	-8.59	-11.76	-4.02	-7.41	-4.40	-10.32	-9.42	-8.51	-7.47	-9.98
90	-9.98	-0.95	-19.97	-11.08	-10.22	-7.62	-7.41	-3.70	-7.84	-12.20	-4.67	-9.11	-9.98
120	-9.98	-7.63	-13.34	-17.12	-13.11	-5.26	-7.41	-4.59	-3.15	-8.20	-6.02	-2.90	-9.98
150	-9.98	-8.16	-11.90	-10.81	-6.00	-7.04	-7.41	-3.06	-3.47	-5.10	-6.49	-2.97	-9.98
180	-9.98	-2.13	-14.90	-3.85	-4.17	-3.15	-7.41	-7.70	-8.27	-12.22	-16.41	-9.31	-9.98

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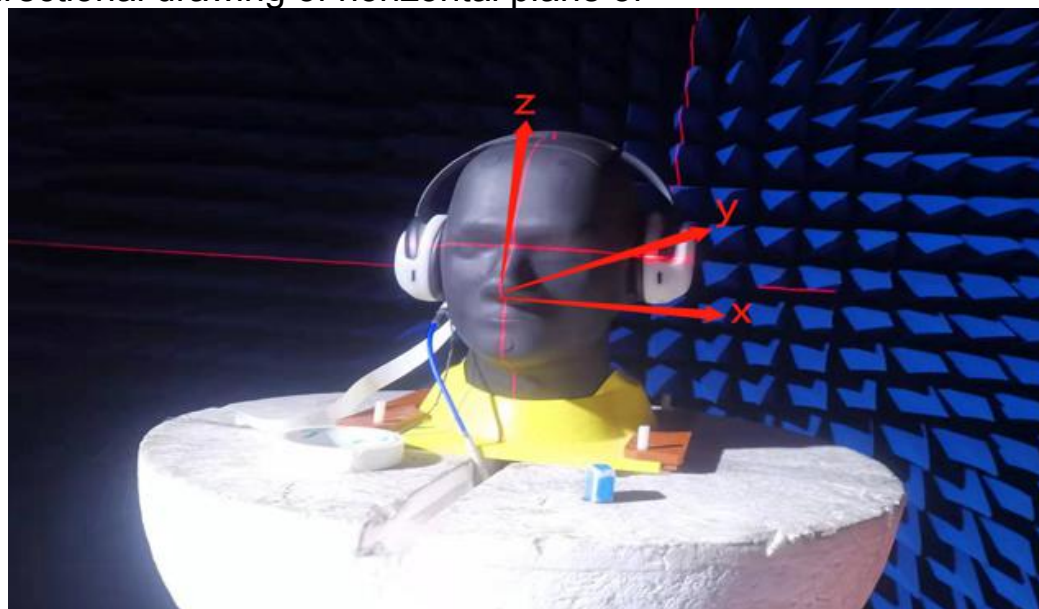
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Frequency	Efficiency	Gain . dB
2400MHz	23%	1.11
2410MHz	23%	1.37
2420MHz	23%	1.32
2430MHz	25%	1.16
2440MHz	26%	1.34
2450MHz	27%	1.18
2460MHz	27%	0.81
2470MHz	27%	0.42
2480MHz	25%	0.23
2490MHz	24%	0.37
2500MHz	24%	0.19

3-4 Directional drawing of horizontal plane of



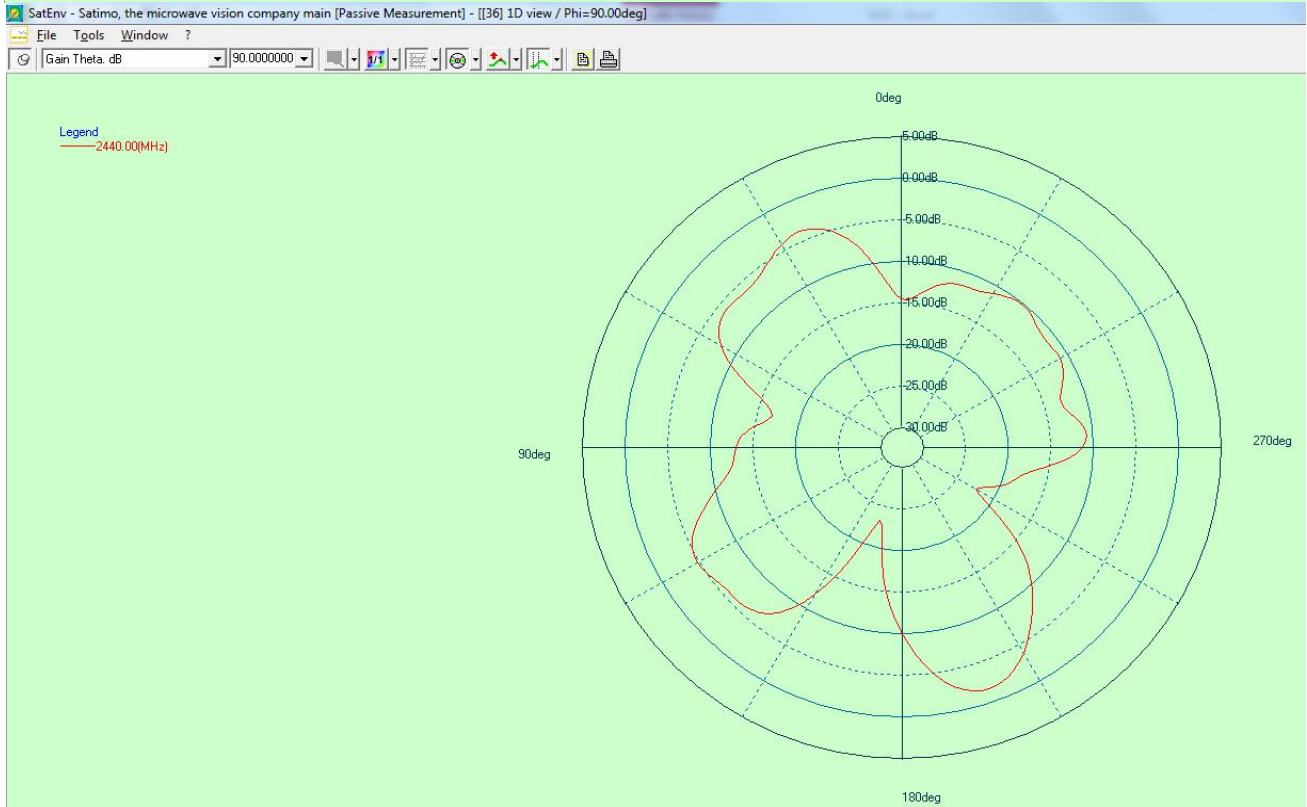
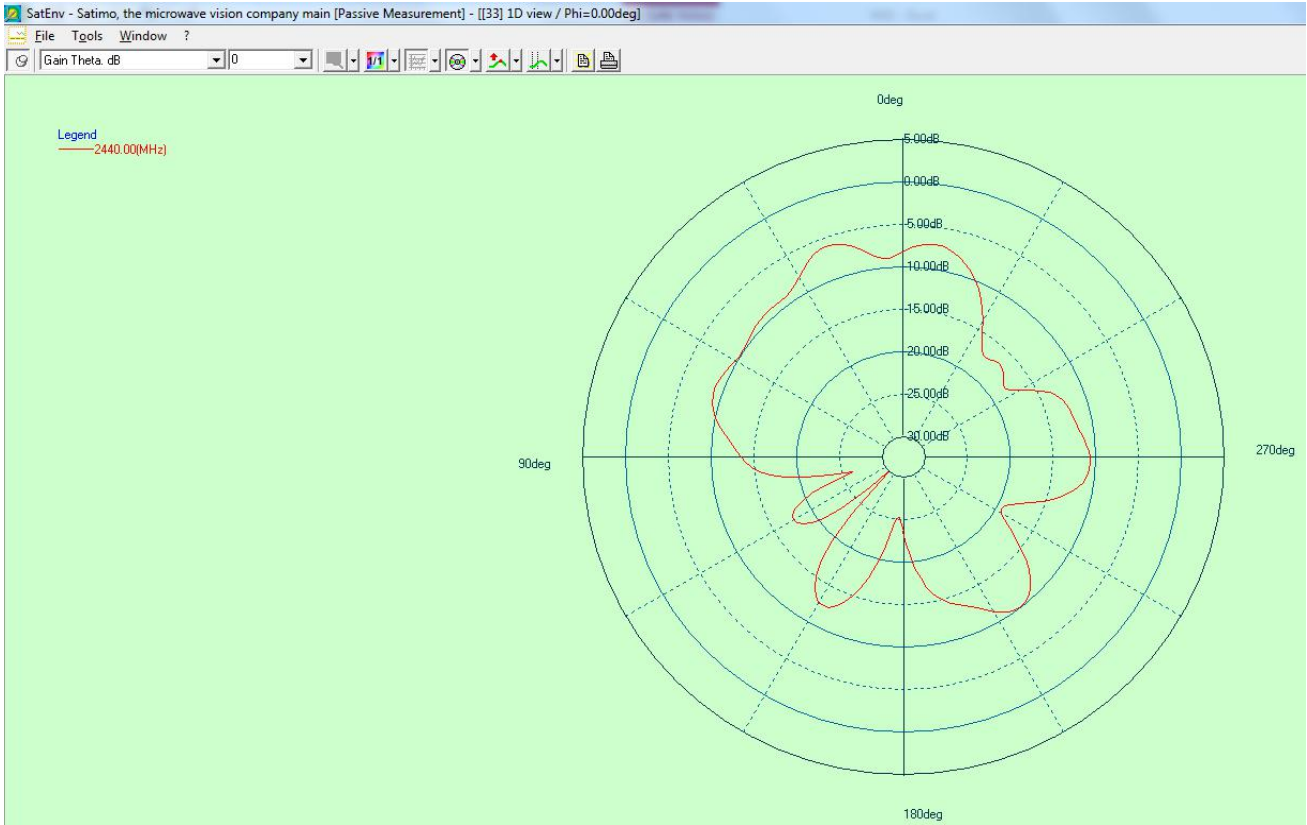
ZX面为: Theta
XY面为: Phi

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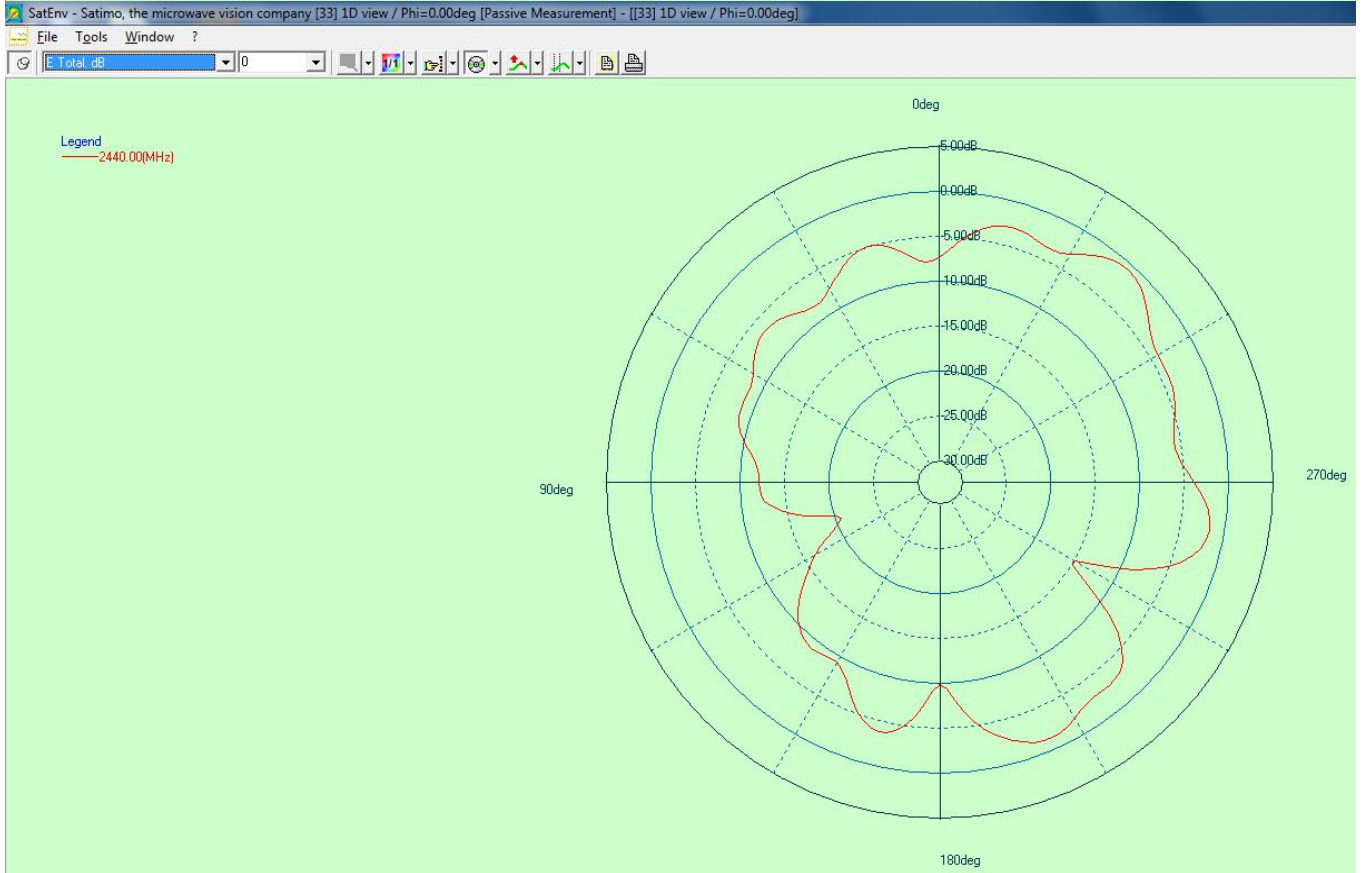
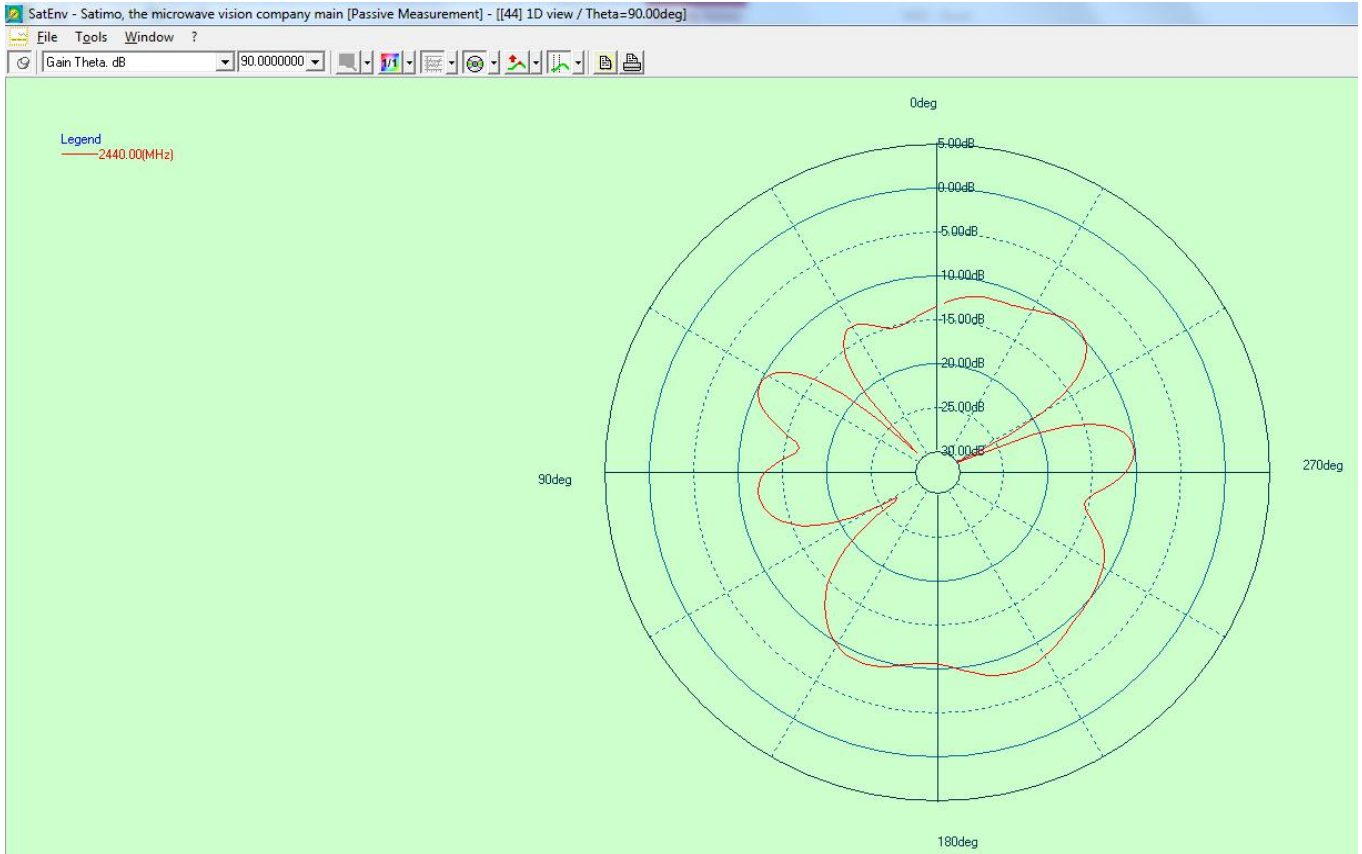


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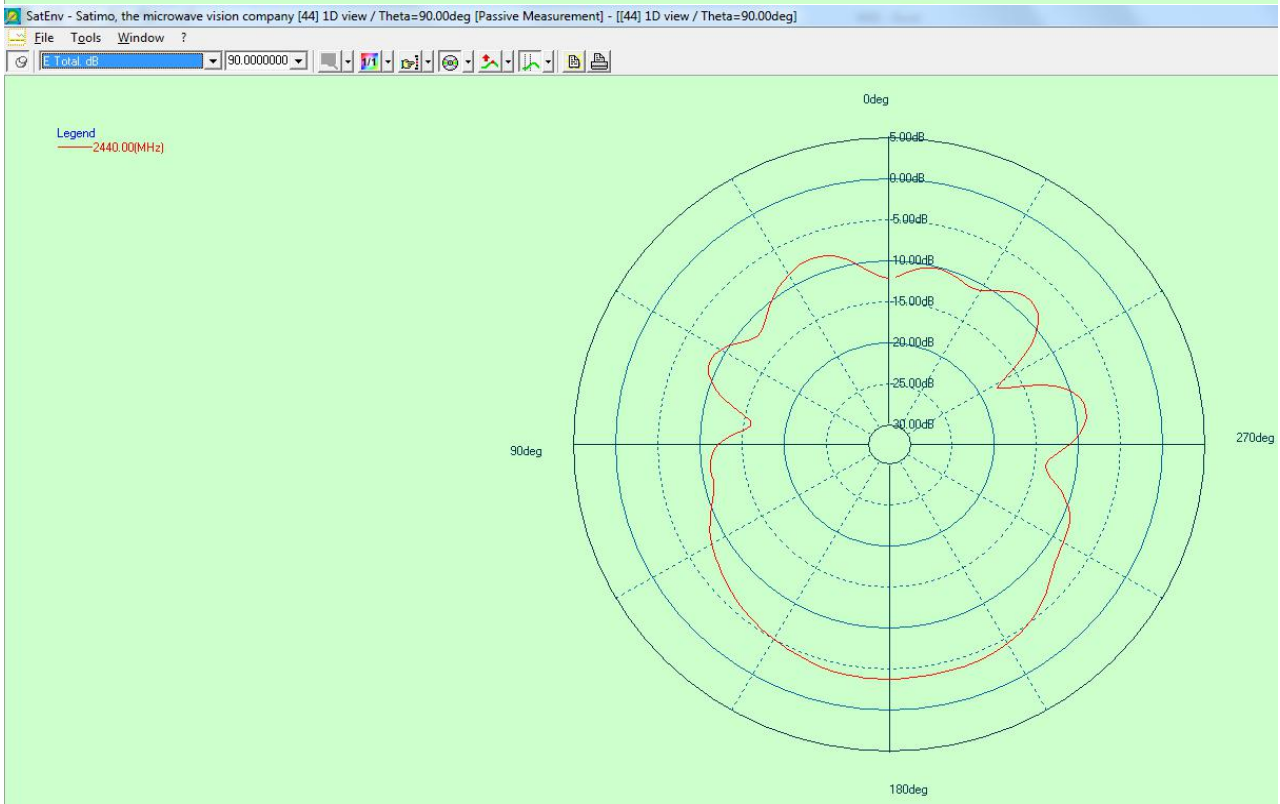
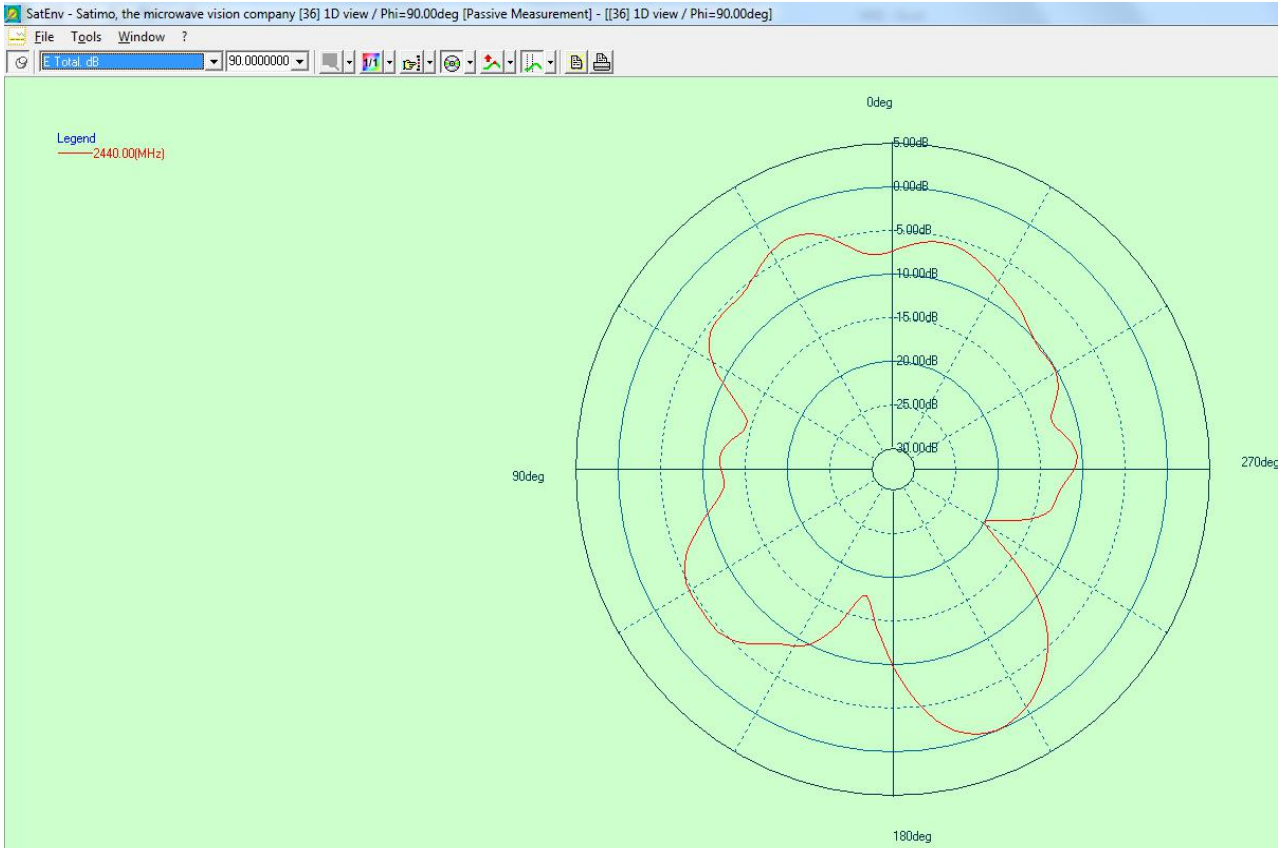


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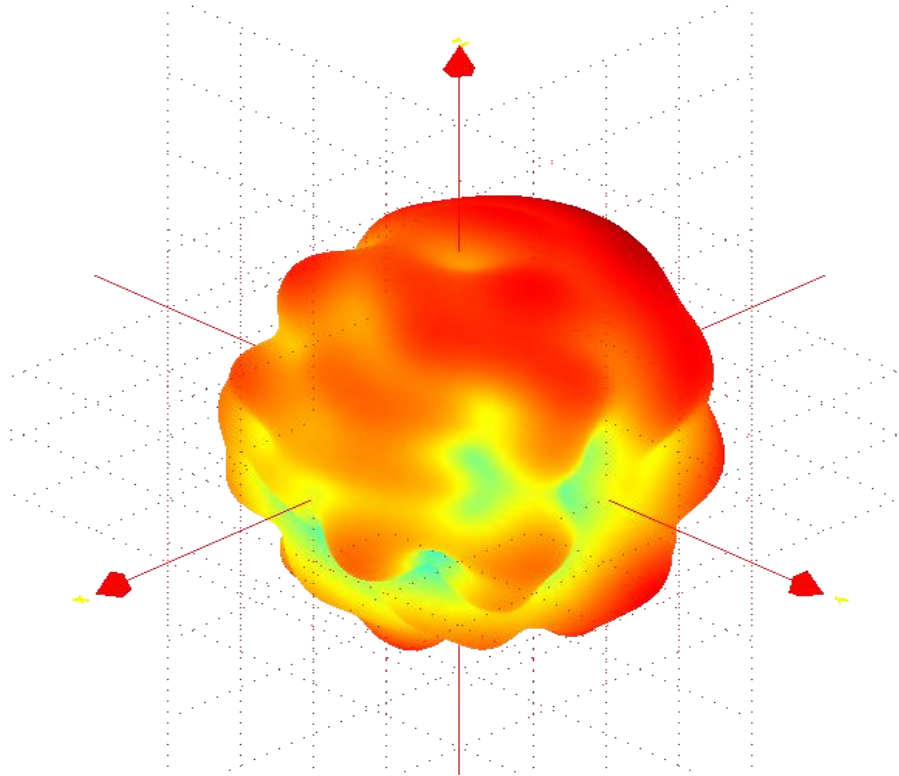
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3-5 3D radiation drawing



3-6 Environment treatment N/A

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4.The packing way



包装规范&作业指导书

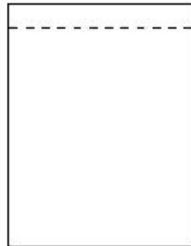
客户名称	TCL通力	产品型号	TOUR2 (WR2)		产品名称	BT天线组件
纸箱规格	K=K45*32.5*21CM		物料编号	1.12.000002	用量	
PE封口袋	360*280*0.10mm		物料编号	1.12.000026	用量	
PE开口袋	240*160*0.05mm		物料编号	1.12.000030	用量	
纸板规格	2PCS/箱*2		其他物料	标签/胶带		
每箱数量	5000~10000PCS	PE开口袋数量	50~100PCS	PE封口袋数量	500~1000PCS	
注意事项	1.客户物料编码和数量是否正确，标签必须用机打印的 2.内标签、外标签、出货报告、送货单内容需一致。 3.如是试产物料或有变更均需贴相应标识，尾数箱需贴尾数标识，内附检验报告等					

包装简图：

1.取（50~100pcs）产品，装袋，贴物料标签；



2.将包装好的产品装入大袋（500~1000pcs），贴物料标签；



3.将包装好的装箱（5000~10000pcs），贴物料标签；



4.封箱。



NO	变更内容	变更人及日期
标签简图：		外箱简图：
		<p>(注意外箱标签需贴物料表)</p>

制表：韦泓佳

审核：向恒锋

核准：党非非