

Antenna test report

Customer Name: Sonic electron

Antenna Type:

Antenna Manufacturer:

Examine: 2024. 08. 26

Give permission to 2024. 08. 26

Manufacturer: dongguanshiyinpaidianziyouxiangongsi

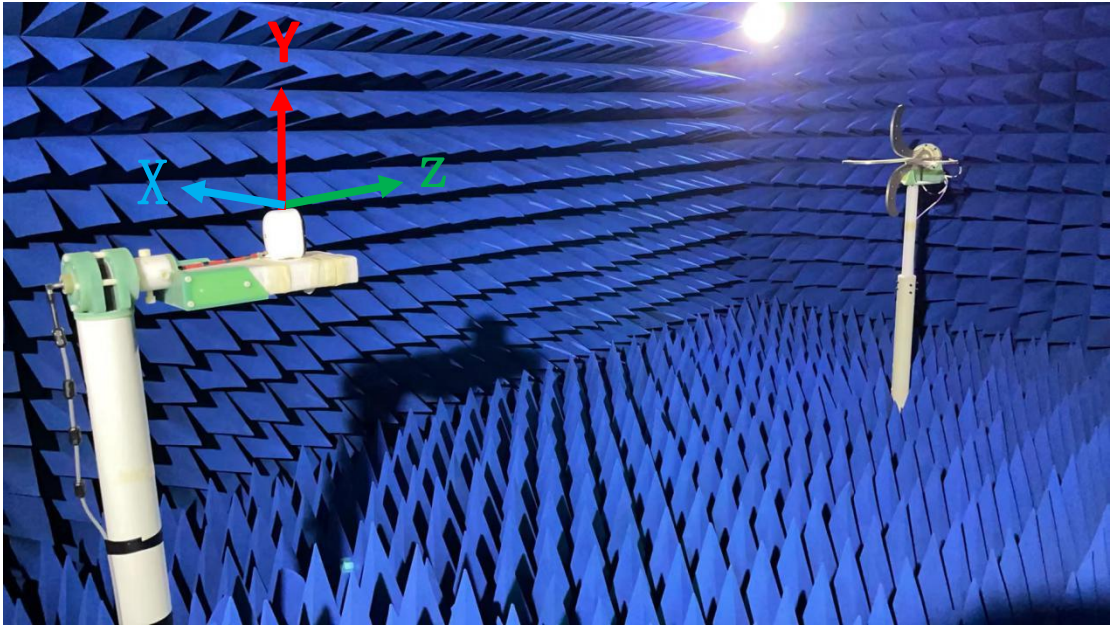
Address:

guangdongshengdongguanshifenggangzhennanlinglu23hao2dong201shi

1 Basic Description

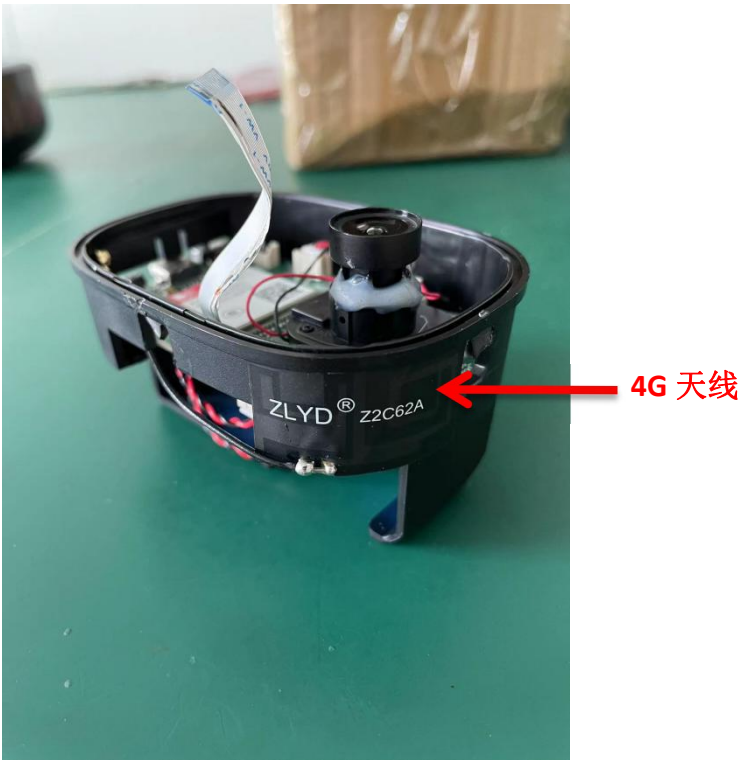
1.1 Test Environment Description

项目	配置	备注
实验室名称	ZLYD 实验室	
暗室系统	ETS 6*3*3	
测试仪表	E5071C、CMW500	
相对坐标	见附件图片	
无源测试点	见附件图片	



相对坐标说明图

1.2 Basic Description of the device to be tested

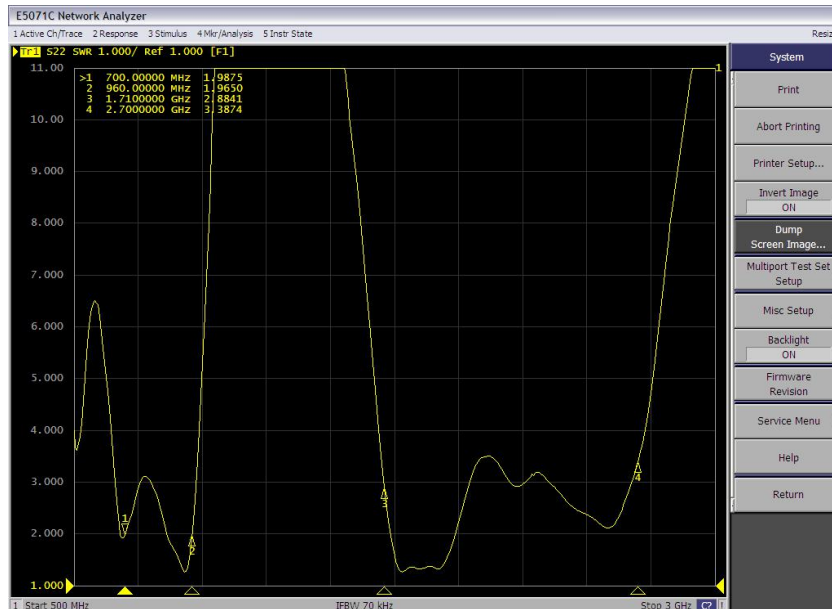


各天线相对位置说明

1.3 待测天线基本描述

天线名称	pattern	形式	线长（mm）	备注
4G 天线	Dipole	FPC	80	见附图

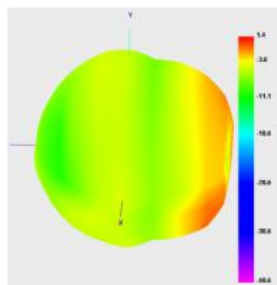
2 Antenna Passive Mesh Testing (VSWR)



3 Darkroom test

3.1 2D/3D field pattern

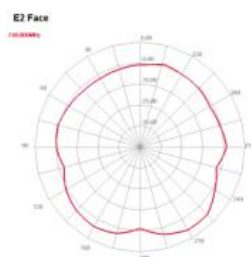
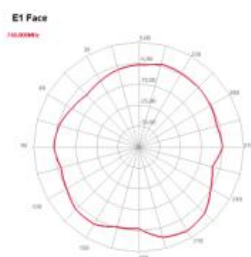
4G 天线_740MHz



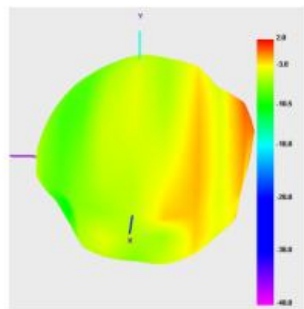
XY 面

XZ 面

YZ 面



4G 天线_880MHz



XY 面



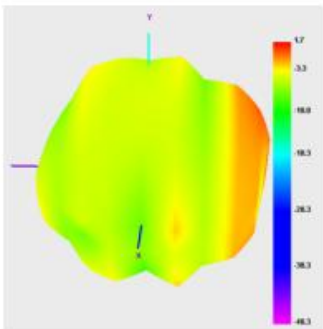
XZ 面



YZ 面



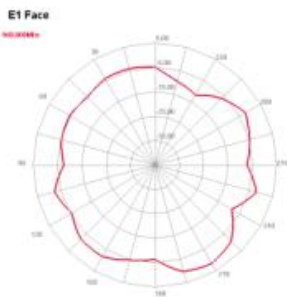
4G 天线_960MHz



XY 面



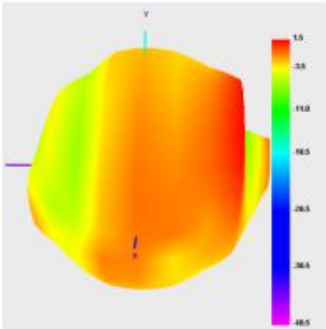
XZ 面



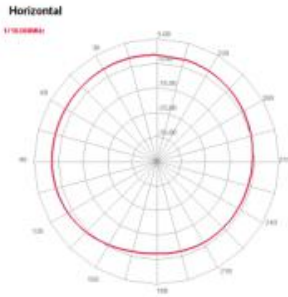
YZ 面



4G 天线_1710MHz



XY 面



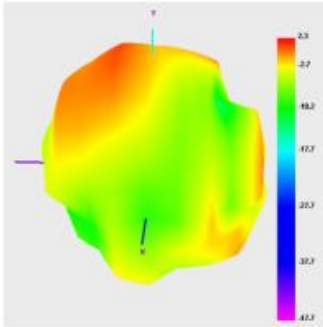
XZ 面



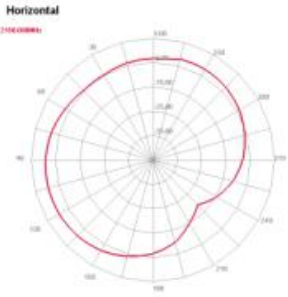
YZ 面



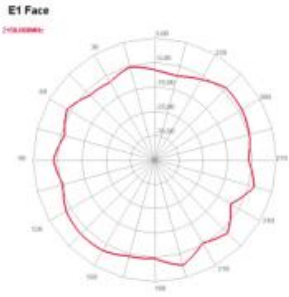
4G 天线_2150MHz



XY 面



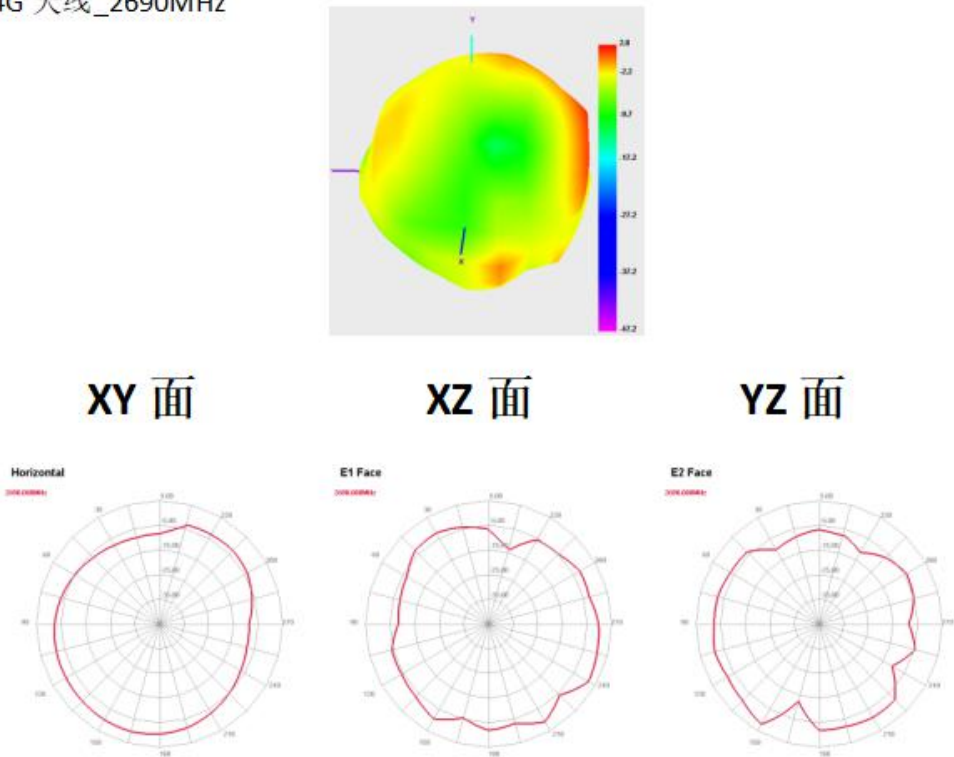
XZ 面



YZ 面



4G 天线_2690MHz



4 Antenna gain and efficiency

4G 天线		
频率（MHZ）	增益（dBi）	效率（%）
740	2.43	44.32
880	2.04	46.28
960	2.74	50.06
1710	3.52	58.12
1880	3.32	56.07
2150	3.41	60.02
2500	3.09	55.39
2690	3.26	58.61

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5 Active TRP&TIS test

Band1				Band3				Band5			
Test	LTE1 TRP			Test	LTE3 TRP			Test	LTE5 TRP		
Result	18100	18300	18500	Result	19300	19575	19850	Result	20450	20525	20600
Frequency (MHz)	1930	1950	1970	Frequency (MHz)	1720	1747.5	1775	Frequency (MHz)	829	836.5	844
TRP(dBm)	18.35	18.06	17.13	TRP(dBm)	18.91	17.65	18.21	TRP(dBm)	17.22	17.79	17.69
Test	LTE1 TIS			Test	LTE3 TIS			Test	LTE5 TIS		
Result	100	300	500	Result	1300	1575	1850	Result	2450	2525	2600
Frequency (MHz)	2120	2140	2160	Frequency (MHz)	1815	1842.5	1870	Frequency (MHz)	874	881.5	889
TIS(dBm)	-85.29	-84.32	-84.61	TIS(dBm)	-83.76	-84.62	-85.02	TIS(dBm)	-86.3	-84.78	-84.65
Band8				Band34				Band38			
Test	LTE8 TRP			Test	LTE34 TRP			Test	LTE38 TRP		
Result	21550	21625	21700	Result	36250	36275	36300	Result	37850	38000	38150
Frequency (MHz)	890	897.5	905	Frequency (MHz)	2015	2017	2020	Frequency (MHz)	2580	2595	2610
TRP(dBm)	16.98	17.1	17.34	TRP(dBm)	19.23	20.04	18.75	TRP(dBm)	20.61	19.39	20.31
Test	LTE8 TIS			Test	LTE34 TIS			Test	LTE38 TIS		
Result	3550	3625	3700	Result	36250	36275	36300	Result	37850	38000	38150
Frequency (MHz)	935	942.5	950	Frequency (MHz)	2015	2017	2020	Frequency (MHz)	2580	2595	2610
TIS(dBm)	-83.6	-85.03	-85.11	TIS(dBm)	-87.17	-88.32	-88.54	TIS(dBm)	-90.15	-90.27	-89.35
Band39				Band40				Band41			
Test	LTE39 TRP			Test	LTE40 TRP			Test	LTE41 TRP		
Result	38350	38450	38550	Result	38750	39150	39550	Result	40620		
Frequency (MHz)	1890	1900	1910	Frequency (MHz)	2310	2350	2390	Frequency (MHz)	2593		
TRP(dBm)	19.73	19.88	18.68	TRP(dBm)	20.01	18.96	18.81	TRP(dBm)	18.59		
Test	LTE39 TIS			Test	LTE40 TIS			Test	LTE41 TIS		
Result	38350	38450	38550	Result	38750	39150	39550	Result	40620		
Frequency (MHz)	1890	1900	1910	Frequency (MHz)	2310	2350	2390	Frequency (MHz)	2593		
TIS(dBm)	-86.89	-88.26	-88.52	TIS(dBm)	-90.21	-88.75	-89.36	TIS(dBm)	-88.34		