



深圳市东信通电子科技有限公司

ShenZhen Eastong Electronic technology Co., LTD

E.S Antenna Design & Mobile Phone OTA (CTIA)

Test Report

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1. Overview

This report is mainly used to describe the parameter descriptions of the antennas tested by "ShenZhenEastongElectronic technology Co., LTD" for the "Bestar Huaqun 1026C" project.

2 Project Description

Project Name: Besida Huaqun 1026C

Model: Straight plate machine

Frequency band : GSM/WCDMA/4G

Antenna form: Made in the form of a PIFA antenna.

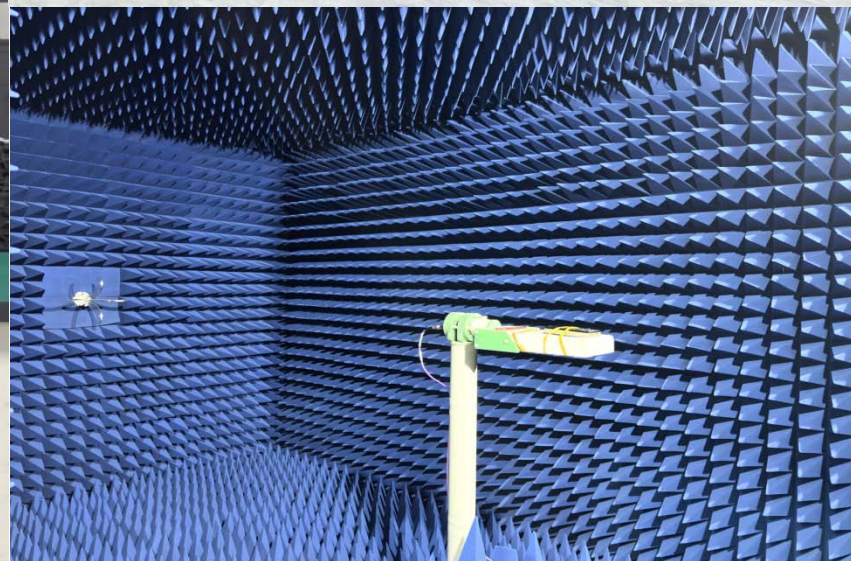
3. Debugging Settings

3.1 Standing wave(**VSWR**) And echo reflection (**Return Loss**)

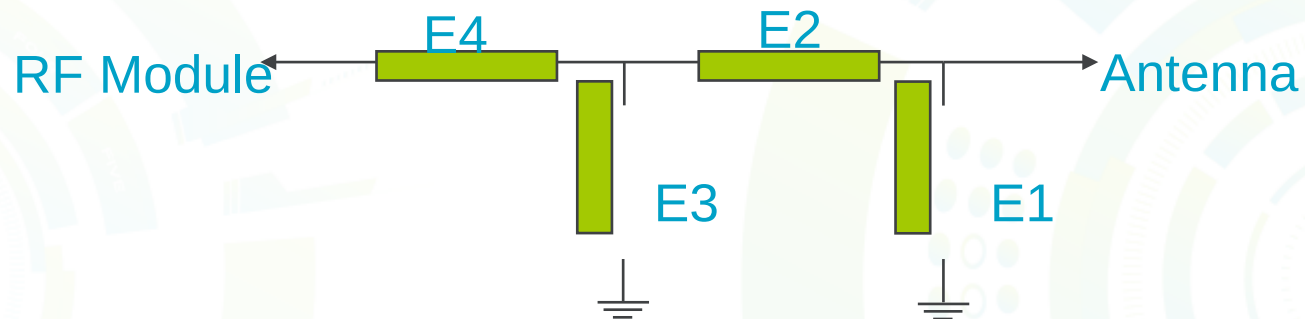
VSWR was tested by connecting an Agilent E5062B to a mobile device, with the status being free space.

3.2 TRP/TRS was tested in an ETS 7m×4m×4m 3D anechoic chamber using Agilent8960(5515C).

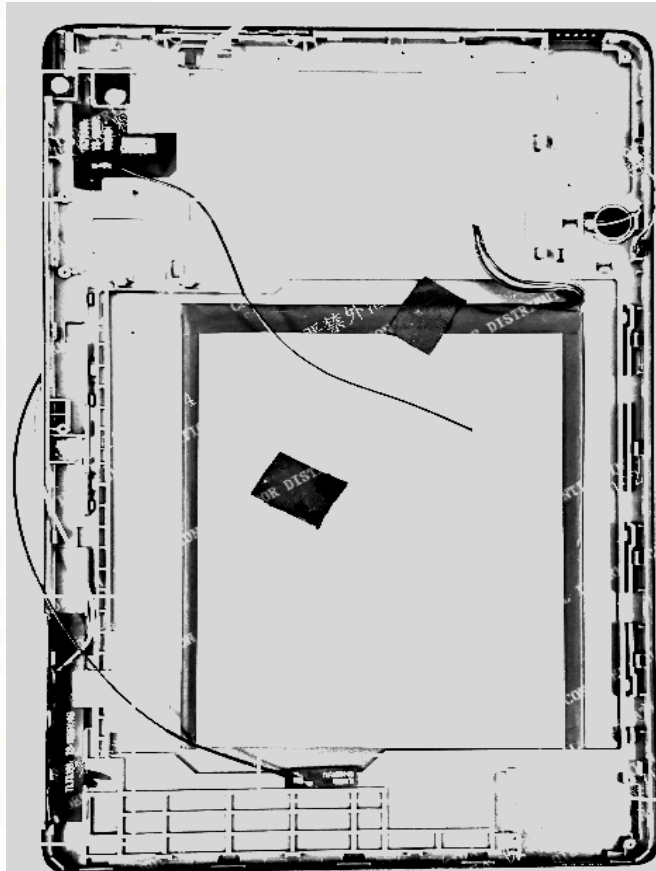
2、先进技术设备 Equipment



匹配电路(Matching Circuit Description)



Element	Value	Vender
E1(0402)		
E2(0402)		
E3(0402)		
E4(0402)		



Antenna schematic diagram

4G天线增益 Gain

Freq (MHz)	Gain (dBi)
700	-15.91
710	-13.85
720	-12.87
730	-12.3
740	-11.66
750	-11.72
760	-11.98
770	-12.68
780	-13.15
790	-11.58
800	-12.24
810	-12.68
820	-12.72
830	-11.76
840	-11.48
850	-11.22
860	-11.03
870	-11.08
880	-11.33
890	-11.14
900	-11.05
910	-10.58
920	-10.58
930	-10.51
940	-10.83
950	-10.9
960	-11.68

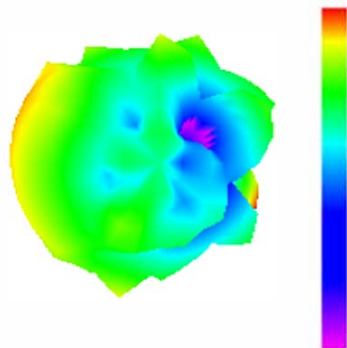
Freq (MHz)	Gain (dBi)
1700	-9.26
1710	-9.1
1720	-8.58
1730	-8.21
1740	-8.33
1750	-8.18
1760	-8.4
1770	-8.74
1780	-8.96
1790	-9.81
1800	-10.09
1810	-10.11
1820	-10.19
1830	-10.66
1840	-10.34
1850	-10.03
1860	-9.83
1870	-9.53
1880	-9.21
1890	-9.43
1900	-9.2
1910	-9.12
1920	-9.19
1930	-9.23

Freq (MHz)	Gain (dBi)
1940	-9.68
1950	-9.26
1960	-9.06
1970	-9.33
1980	-9.13
1990	-8.72
2000	-8.93
2010	-9.46
2020	-10.17
2030	-9.85
2040	-9.25
2050	-8.98
2060	-8.87
2070	-9.03
2080	-9.3
2090	-9.91
2100	-10.67
2110	-11.09
2120	-11.69
2130	-11.26
2140	-11.04
2150	-10.78
2160	-10.86
2170	-10.2

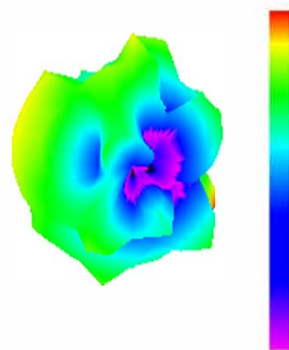
4G天线增益 Gain

Freq (MHz)	Gain (dBi)
2500	-8
2510	-8.83
2520	-8.26
2530	-8.33
2540	-8.47
2550	-8.4
2560	-8.37
2570	-8.17
2580	-8.1
2590	-8.06
2600	-8.23
2610	-8.1
2620	-8.27
2630	-8.1
2640	-8.14
2650	-7.91
2660	-8.44
2670	-8.32
2680	-8.51
2690	-8.89

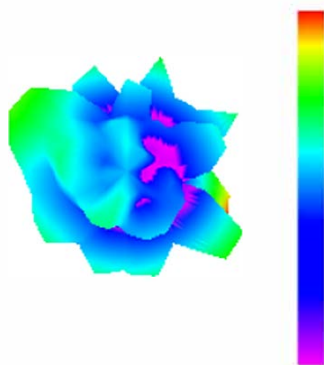
850MHz



1900MHz



2500MHz



GPS:

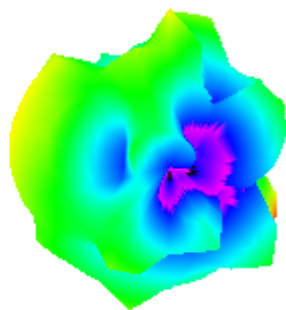


WIFI:2.4G

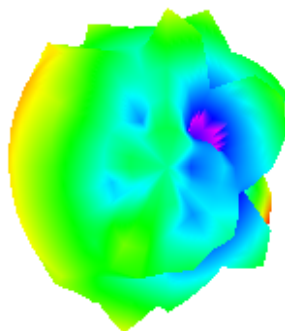
15 meters

Freq (MHz)	Gain (dBi)
2400	-1.51
2450	-0.18
2500	1.68

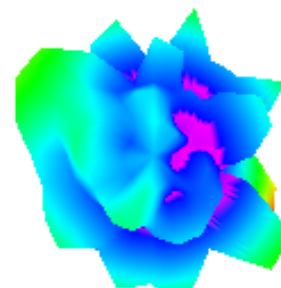
2400.000MHz



2450.000MHz



2500.000MHz

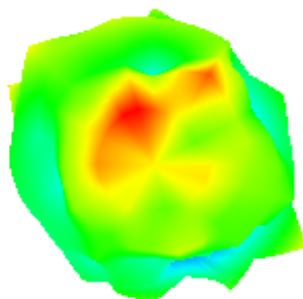


WIFI:5G

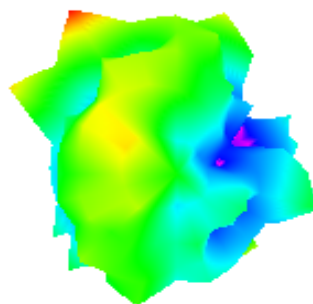
15 meter

Freq (MHz)	Gain (dBi)
5050	-3.57
5450	-0.59
5850	-1.71

5050.000MHz



5450.000MHz



5850.000MHz

