



深圳市凯普深通讯科技有限公司

Shenzhen cape deep communication technology co., LTD

2nd Floor, Yulong Office Building, Longcheng Industrial Zone, No. 440 Longguan Avenue, Dalang Street,
Longhua District, Shenzhen, China

天线调试报告

test report

Customer: Xinruixin

Model : E043

Date : 2024.01.18

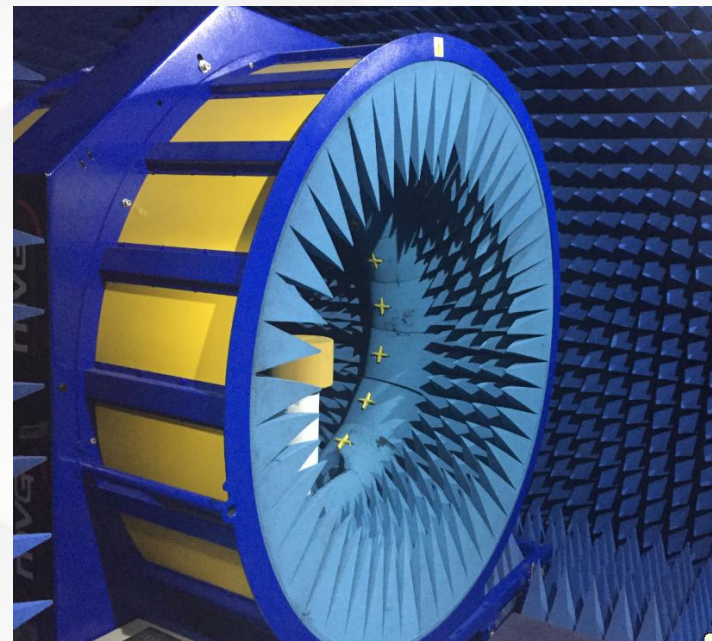
Version: V1.0

深圳市凯普深通讯科技有限公司

Shenzhen cape deep communication technology co., LTD



Laboratory test environment and equipment



测试项目	测试设备
S11、S12、VSWR、LOSS	网络分析仪E5071B、E5062A
Efficiency、Gain 3D Radiation Pattern	Satimo SG16暗室、GP7*4*3暗室、E5071B
TRP、TIS	Satimo SG16暗室、GP7*4*3暗室、8960、 CMW500、MT8820C、E4438C、



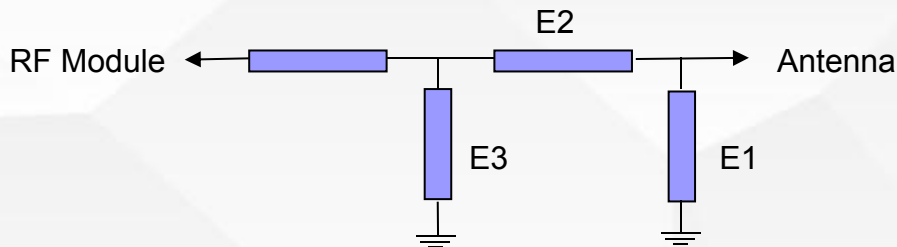
Brief description of the project

Machine type	Headphones		
		Frequency band information	Antenna form
Antenna type and frequency band information	BT	2.4-2.48G	monopole
Antenna material	FPC		



凯普深

BT cable distribution circuit



R/L	Element	Value	Illustrated description
	E1(0402)	1.8PF	
	E2(0402)	0R	
	E3(0402)	NC	



BT antenna test passive data

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	18.22	-7.39	-3.64
2410	17.51	-7.57	-3.96
2420	17.99	-7.45	-4.11
2430	18.08	-7.43	-4.05
2440	18.53	-7.32	-3.85
2450	18.5	-7.33	-3.71
2460	18.18	-7.4	-3.63
2470	15.85	-8	-4.08
2480	15.23	-8.17	-4.13

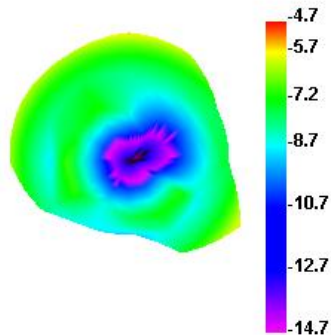


凯普深

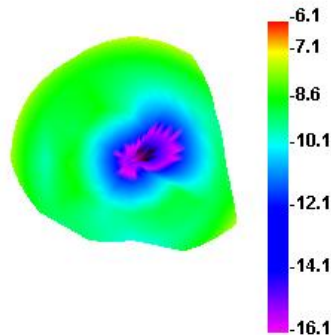
BT skyline efficiency apple map

R

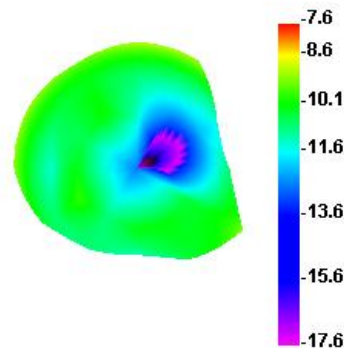
2400.000MHz



2440.000MHz

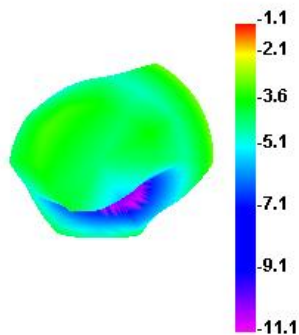


2480.000MHz

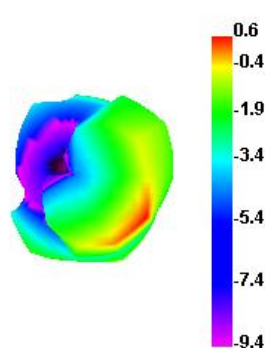


L

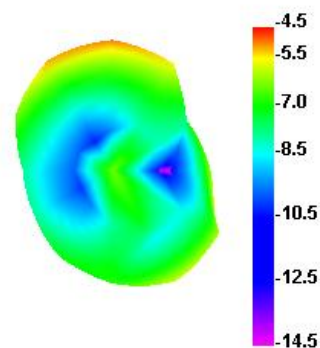
2400.000MHz



2440.000MHz



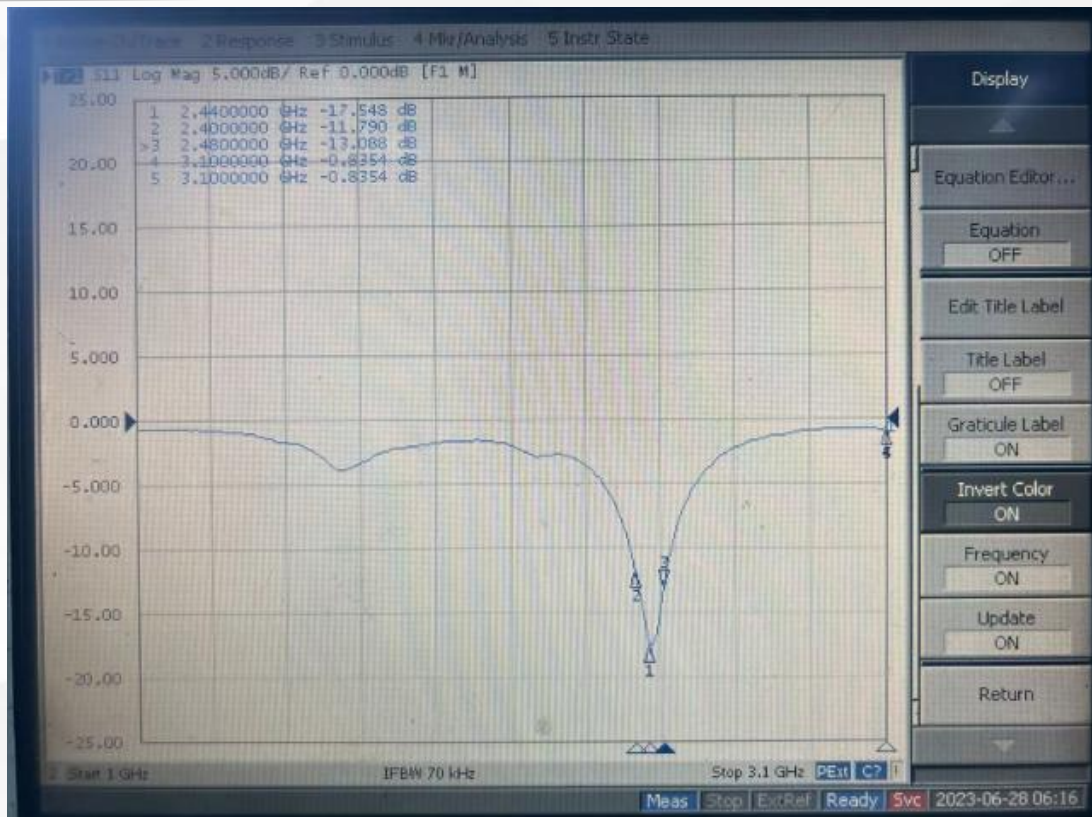
2480.000MHz





凯普深

BT sky line passive standing wave diagram

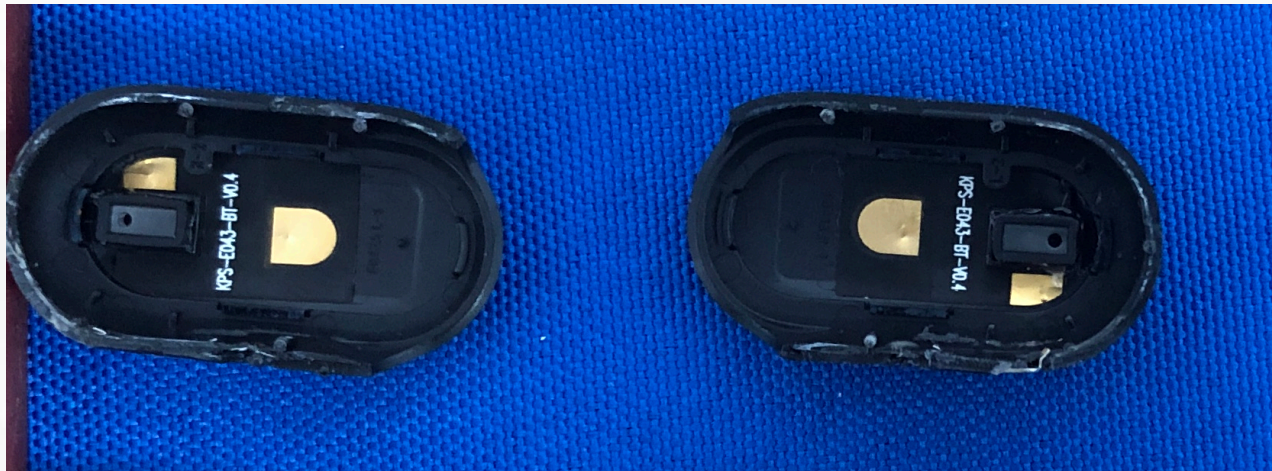




Free space active data

Test Result	Bluetooth TRP		
	0	39	78
Frequency (MHz)	2402	2441	2480
Txp Ave (dBm)	0.31	1.12	0.14
Test Result	Bluetooth TIS		
	0	39	78
Frequency (MHz)	2402	2441	2480
Sens Ave (dBm)	-80.86	-81.72	-81.15

Antenna picture



Antenna size

