

Shenzhen Qianmu Communication Technology Co., Ltd.

Model: LW39

2022. 8. 30

Version:A2

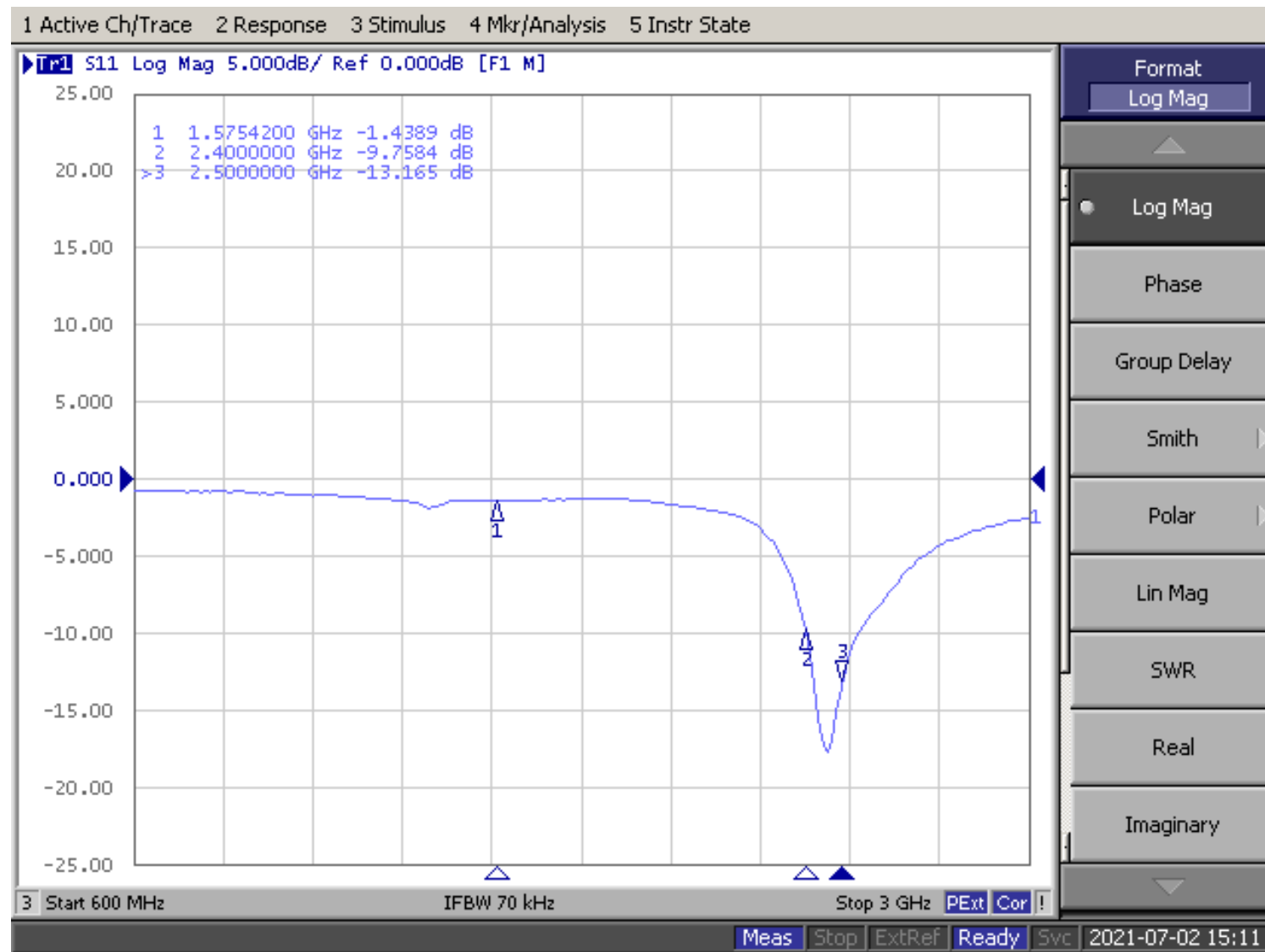
	Bluetooth Watches						
Model	DW2121						
Antenna overview		Antenna status		Antenna status	Antenna form	Design area	Match changes
	Bluetooth antenna	BT	2.4GHz~2.5GHz	D:0.6mm L:25mm	Wire	bracket	N/A
Prototype status	Debug machine			Environmental treatment			

Glossary

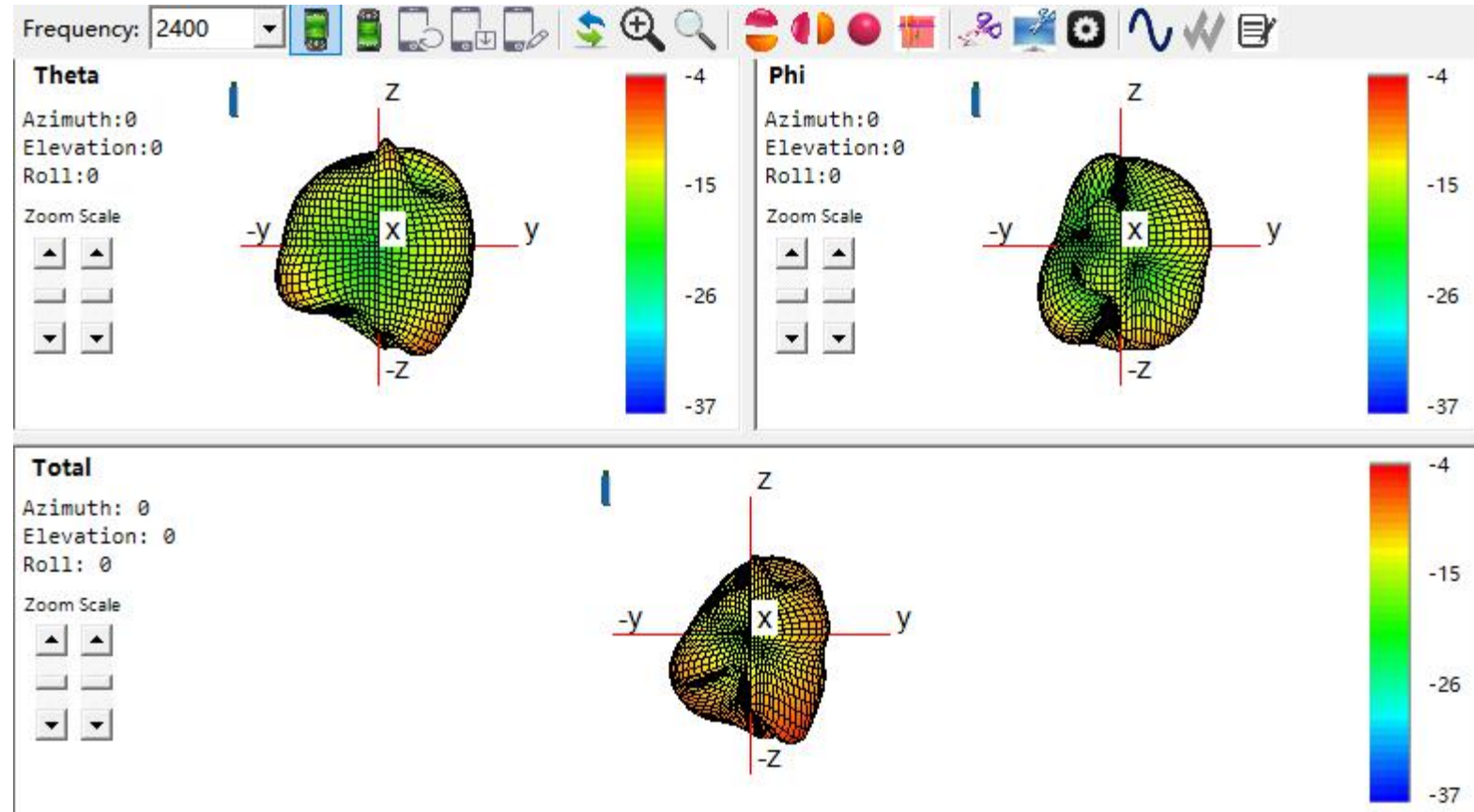
dBi	Decibel relative isotropic antenna
Tx	Transmit frequency
Rx	Receive frequency
TRP	Total Radiated Power
TIS	Total Isotropic Sensitivity
VSWR	Voltage Standing Wave Ratio
GSM	Global Service for Mobile communication
DCS	Digital Communication System
PCS	Personal Communication System
PHS	Personal Handy-phone System
SAR	Specific Absorption Rate
PCB	Printed Circuit Board
CDMA	Code Division Multiple Access
WCDMA	Wideband Code Division Multiple Access
LTE	Long Term Evolution

Test Data

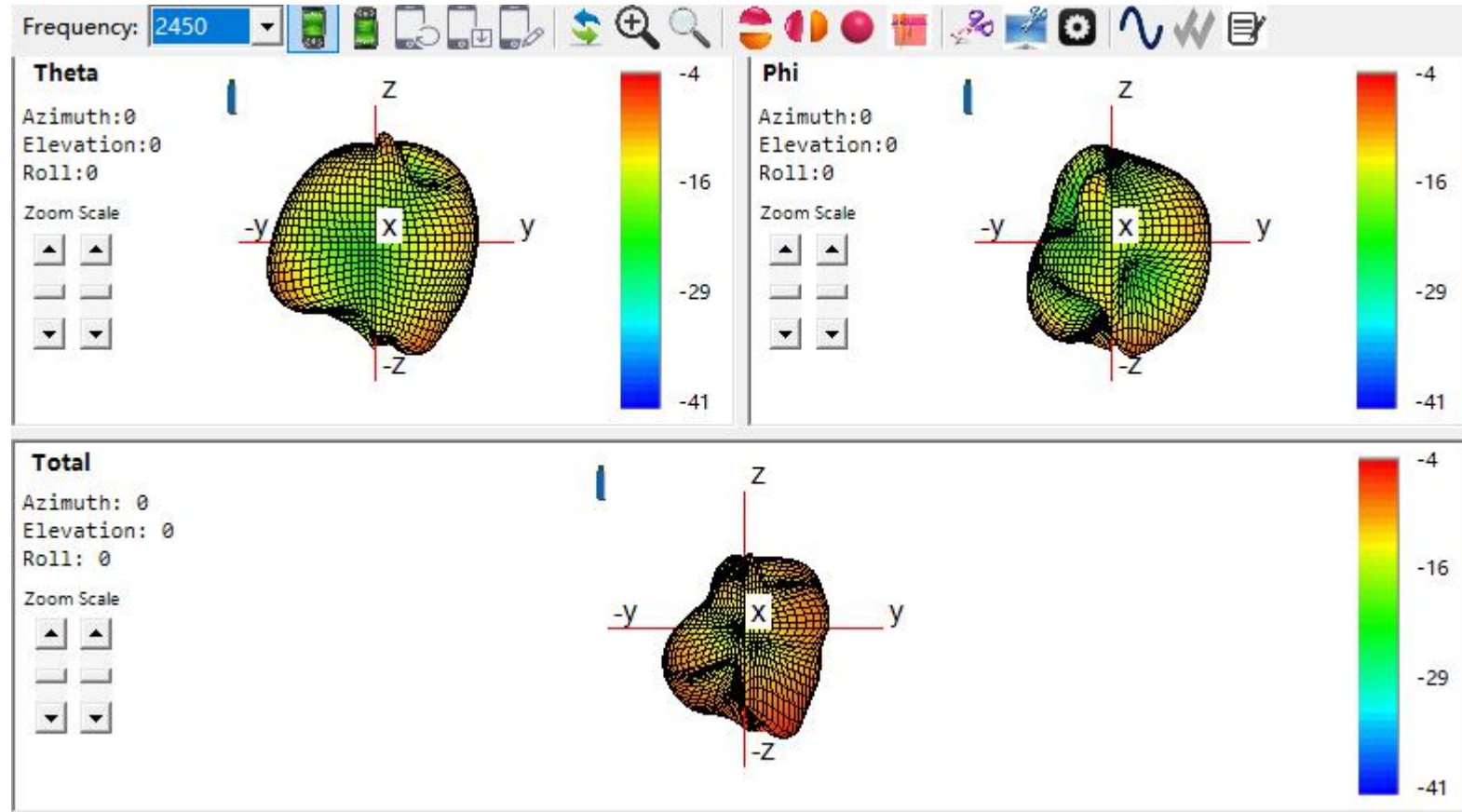
1. BT antenna RL



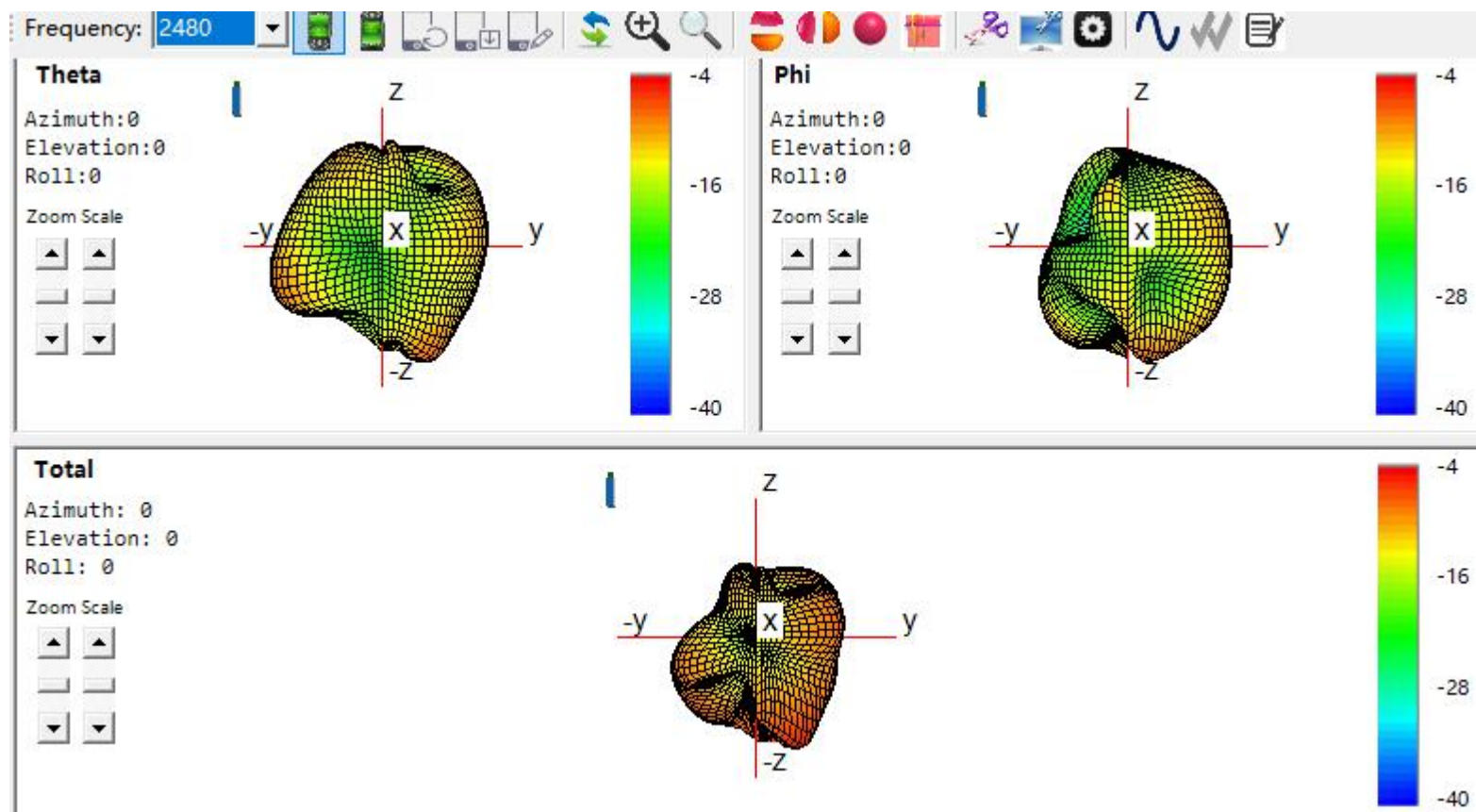
3D Radiation Pattern



3D Radiation Pattern



3D Radiation Pattern



Test Data

BT antenna efficiency:

Passive Test For 2.4GWIFI										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	21.23	-6.85	-2.13	-5.43	9.889	8.502	-3.56	-19.91	48.51	48.38
2410	20.96	-6.79	-2.76	-4.91	11.271	9.692	-2.76	-20.82	48.83	48.65
2420	23.11	-6.36	-2.07	-4.22	12.374	10.74	-2.07	-21.2	49.05	49
2430	23.82	-6.23	-1.98	-4.19	12.455	11.36	-2.04	-22.26	49.05	48.89
2440	22.98	-6.39	-1.93	-4.35	11.586	11.396	-2.2	-23.21	49.08	48.97
2450	22.77	-6.43	-1.78	-3.93	10.922	11.849	-1.78	-22.84	49.01	48.85
2460	21.64	-6.65	-1.69	-3.84	10.103	11.532	-1.69	-22.5	48.86	48.7
2470	21.64	-6.65	-1.74	-3.89	9.919	11.721	-1.74	-21.09	48.86	48.78
2480	22.19	-6.54	-1.82	-3.97	10.252	11.938	-1.82	-20.85	49.29	49.19
2490	24.92	-6.04	-1.42	-3.57	11.458	13.457	-1.42	-18.66	49.92	49.75
2500	25.24	-5.98	-0.94	-3.09	11.883	13.361	-0.94	-17.61	49.95	49.77