

The main purpose of this report: headphone antenna test

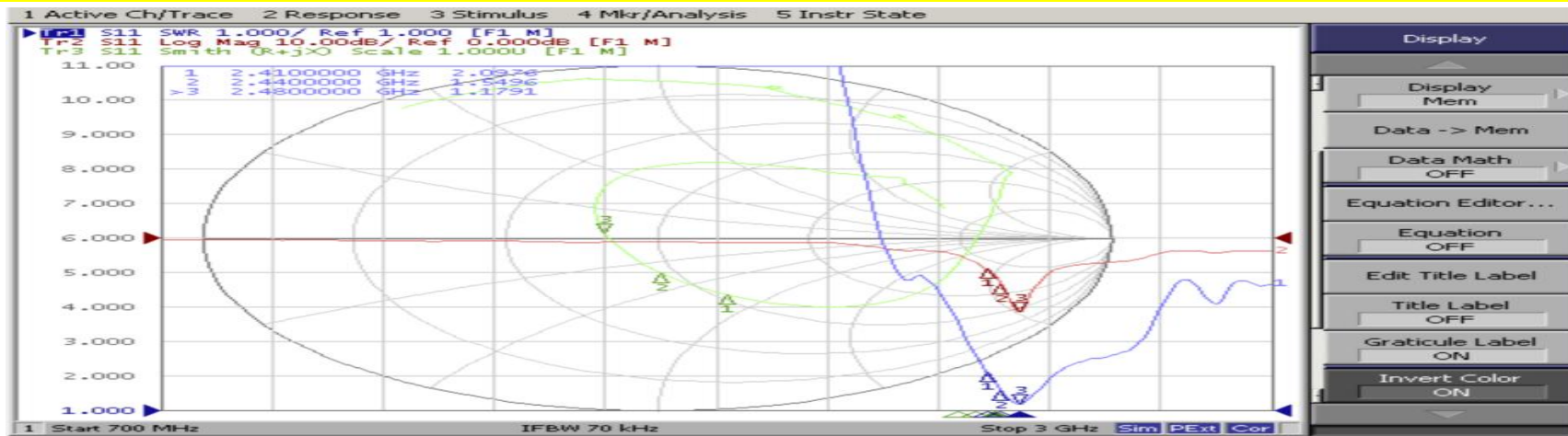
Antenna type: PCB Onboard Antenna

Antenna size: 11.1mm*7.1mm*0.1mm

Headset Active Test Data

Free	Channel	TRP (dBm)	TIS (dBm)	Head	Channel	TRP (dBm)	TIS (dBm)
Headset	CH 0	5.1	-90.9	Headset	CH 0	4.7	-90.41
	CH 39	5.6	-91.9		CH 39	5.3	-90.76
	CH 78	6.4	-91.9		CH 78	5.7	-90.81

Headset impedance test data

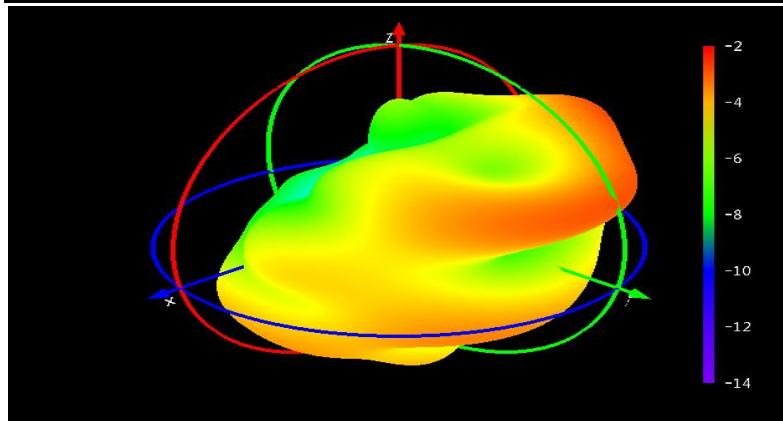


Antenna passive efficiency test situation (with 3D&2D pattern)

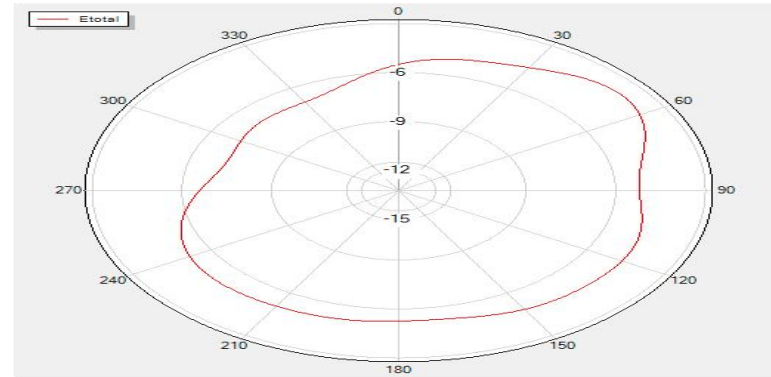
Headset

frequency point MHz	Gain(dBi)	efficiency(dB)	efficiency (%)
2400	-1.47	-5.24	36.93
2410	-1.23	-5.08	36.05
2420	-1.05	-4.97	36.85
2430	-0.96	-4.87	37.57
2440	-0.98	-4.81	36.05
2450	-1.03	-4.76	37.39
2460	-1.08	-4.76	36.43
2470	-1.19	-4.78	37.29
2480	-1.27	-4.8	37.14

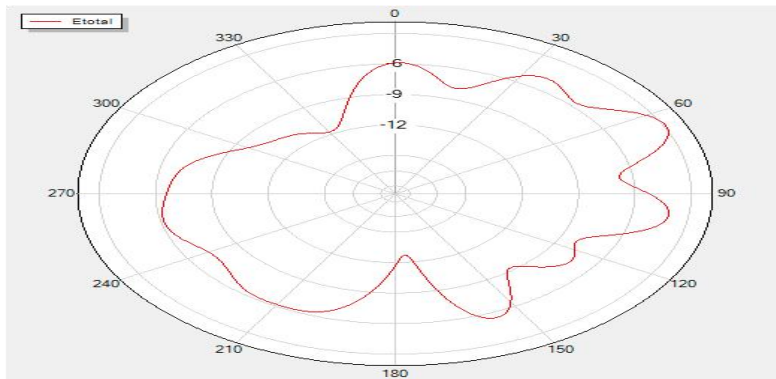
2490	-1.3	-4.83	36.86
2500	-1.35	-4.83	36.88
mean value	-1.17	-4.88	36.86



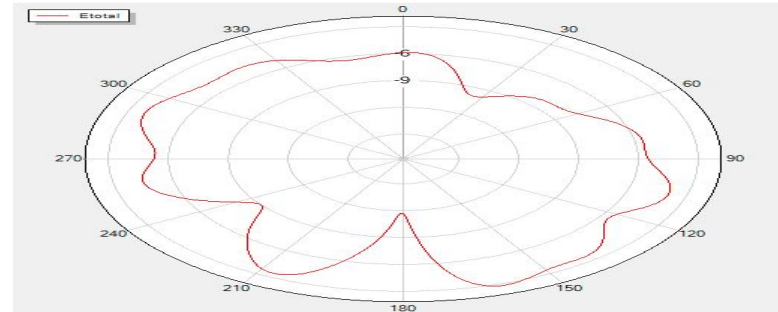
Theta=90 Freq=2450MHz



Phi=90 Freq=2450MHz



Phi=0 Freq=2450MHz



Measured effect

Test Phone: Huawei P50
 Distance: 28M
 Test Place: Huawei Sidewalk
 Tester: Mao Luping

Summarize:

The overall data is no problem, and the actual measurement effect is also very good