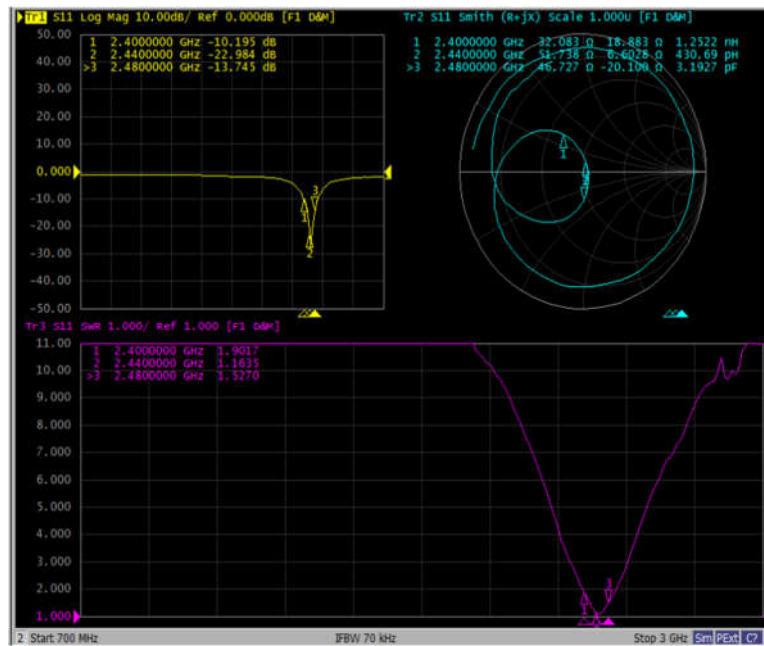


VIOLIN Antenna report

Applicant	Tonly Technology Co., Ltd.
Address	Section 37, Zhongkai High-tech Development Zone, Huizhou City, Guangdong Province, 516006 China

Manufacturer or Supplier	Shenzhen Cicent Communication Technology Co., Ltd.
Address	Tower A, Donglian Building, Chuangye 2nd Road, Bao'an District, Shenzhen
Product	TWS
Brand Name	C04
Model	Violin-R
Antenna type	Monopole
Max. Peak Gain	2.4G: -3.32dBi
Date of tests	2026-7-20
Tested by Gan zhou	Approved by
周赣	

1. Return loss & impedance



3. Test standard

Name	Parameter	Method	Standard no.
Antenna performance	Radiation efficiency	IEEE Standard Test Procedures for Antennas	ANSI/IEEE Std 149-1979

4. Equipment list

Equipment	Manufacturer	Model No	Serial No.	Last Cal.	Due Date
Network Analyzer	Agilent	E5071C	MY47100344	2026.03.15	2027.03.14
Microwave chamber	MVG	SG24S 0.4-10GHz	1102805-0012	2026.01.05	2027.01.05
Test Software	MVG	Wave Studio24.3.3			

5. Test configuration diagram

Test step flow:

- 1) Maintain the test ambient temperature of 23 ± 2 C, the instrument is powered on and preheated for more than 30 minutes;
- 2) Turn on the darkroom power supply, connect the test cable, and set up the sample according to the standard;
- 3) Outline sets the test content objectives and conducts calibration tests;
- 4) Run the software, when the test is completed, export the corresponding test diagram and test data, and save to the corresponding directory.

6: Test Photo

7. Antenna gain

2400-2480 MHz R			
Frequency MHz	Efficiency%	Efficiency (dB)	Gain (dBi)
2400	11%	-9.4	-4.46
2410	12%	-9.08	-4.67
2420	13%	-8.85	-4.49
2430	14%	-8.56	-4.49
2440	14%	-8.42	-4.78
2450	14%	-8.4	-3.96
2460	14%	-8.57	-3.34

2470	13%	-8.8	-3.32
2480	12%	-9.18	-4.09
平均值	13%	-8.81	-4.18