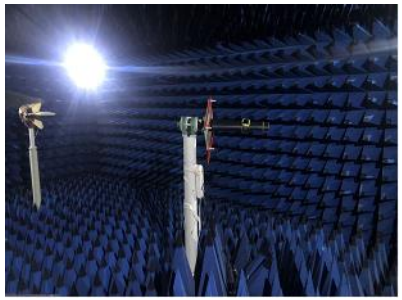
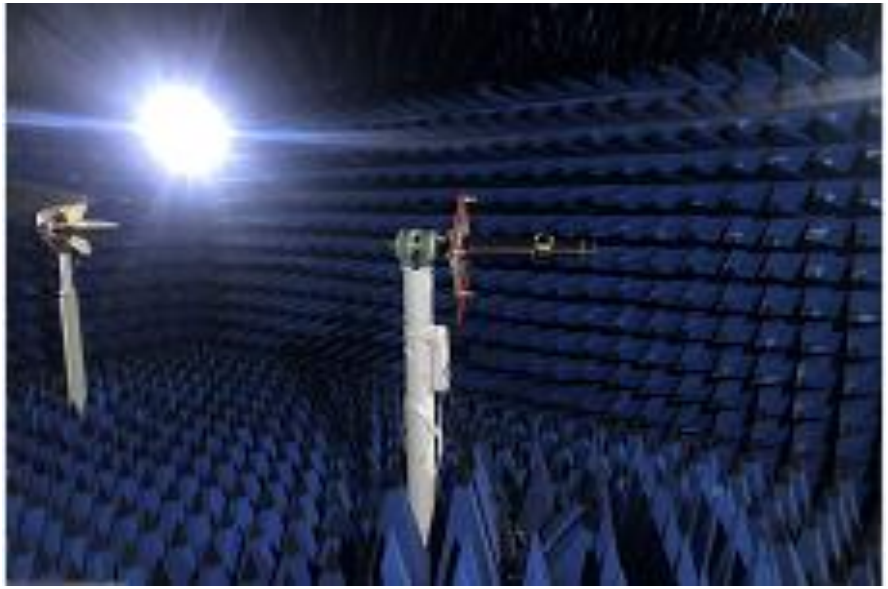
Simulation and commissioning report of Sanuo B-3326 antenna

Radio frequency: HE LEI
Date: 2025-3-17
Contact way:15767667652



Project development environment

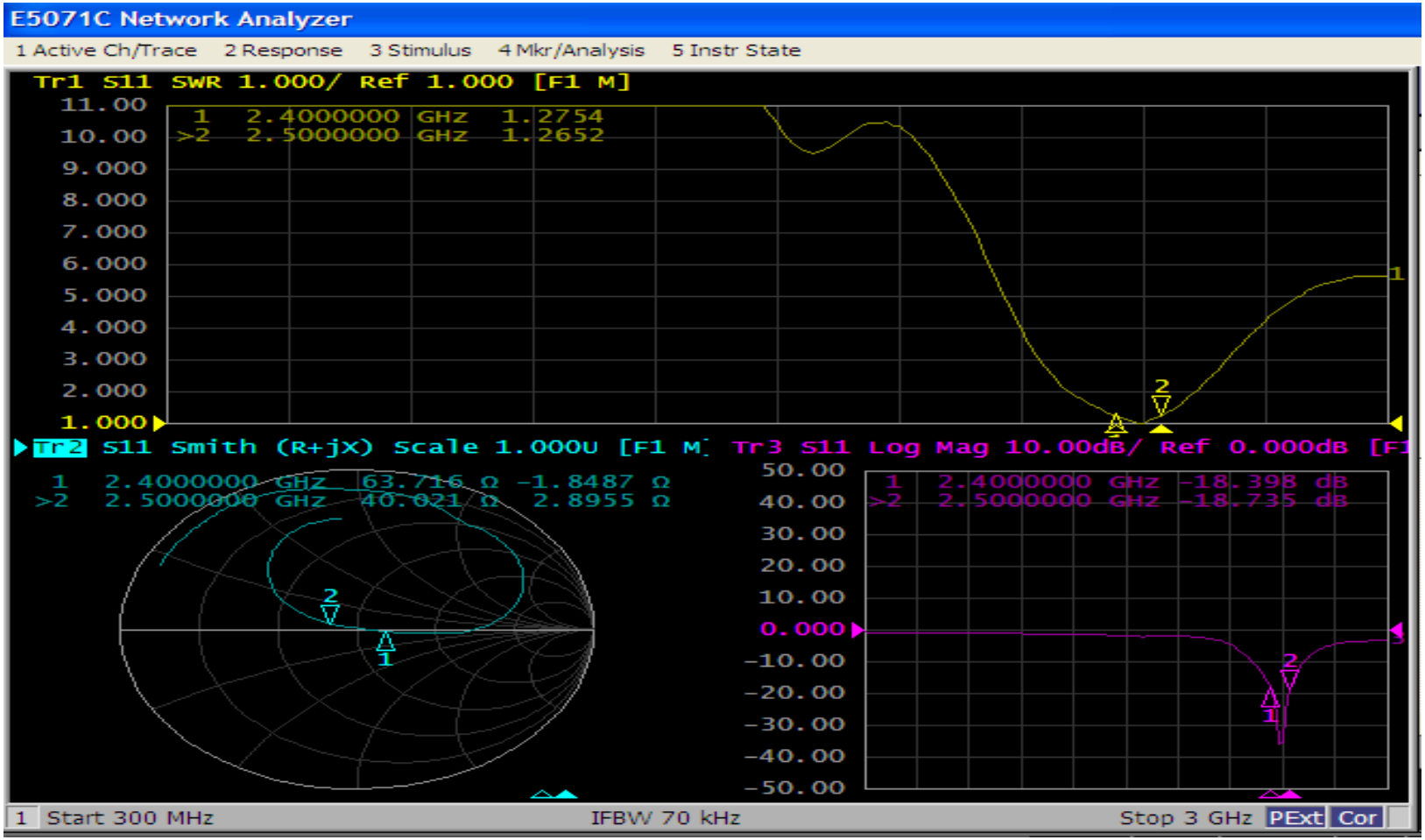
We are transitioning from the Internet era to the intelligent age, with the country building a digital society and smart cities. In the next 5-10 years, both the consumer electronics market and the IoT market will have tremendous potential for development. The wireless communications sector is highly diversified, and in the future, Yusheng will leverage its customer platform advantages in antenna core business and its overall strength to strive for providing customers with market-competitive professional-grade product solutions.



Yusheng Communications products almost cover all antenna applications for wireless terminal devices, including automotive antennas, high-precision surveying and mapping antennas, ground and satellite data navigation for drones, high-precision positioning antennas, wireless transmission for medical equipment, consumer antennas (mobile phone antennas, PADs, laptop antennas), base station/indoor distribution antennas, smart wearable antennas (smartwatches, TWS earphones), security home antennas, and various wireless data transmission and control smart device antennas.

1. Antenna environment overview
2. RF assessment and recommendations
3. Structural assessment and recommendations
4. Summary & additional note

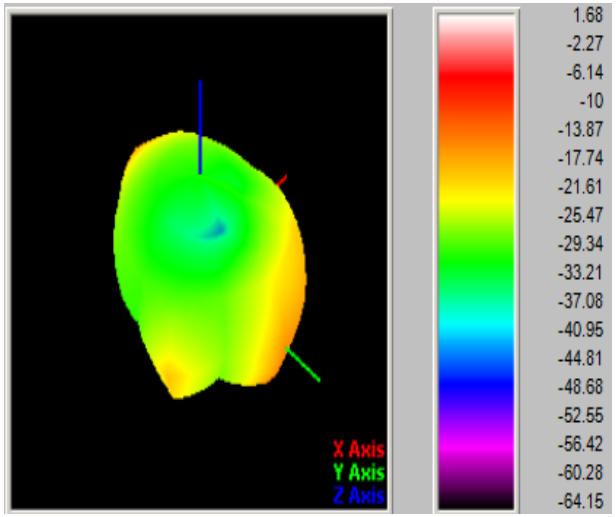
BT antenna (figure file LOGMAG+VSWR+SMITH)

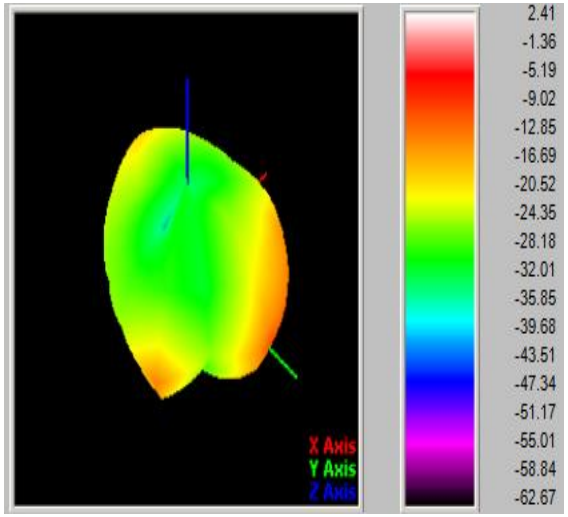


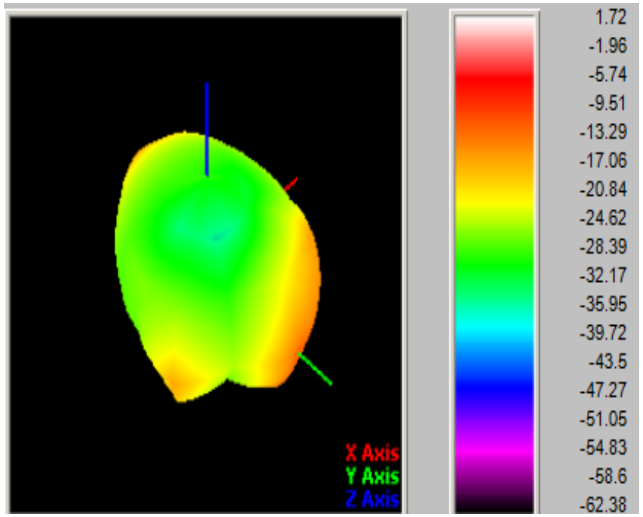
BT-antenna efficiency and gain

Passive Test For 2400MHz~2500MHz			
Freq	Effi	Effi	PeakGain
(MHz)	(%)	(dB)	(dBi)
2400	51.7%	-2.88	1.68
2410	52.5%	-2.84	1.81
2420	52.9%	-2.75	1.97
2430	53.8%	-2.74	2.13
2440	53.5%	-2.69	2.24
2450	54.3%	-2.61	2.41
2460	53.2%	-2.69	2.37
2470	52.6%	-2.73	2.14
2480	52.5%	-2.84	1.96
2490	51.3%	-2.85	1.81
2500	50.6%	-2.92	1.72

BT-antenna pattern

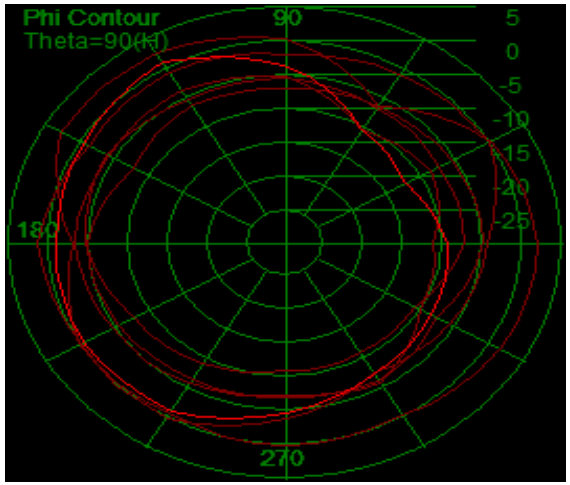




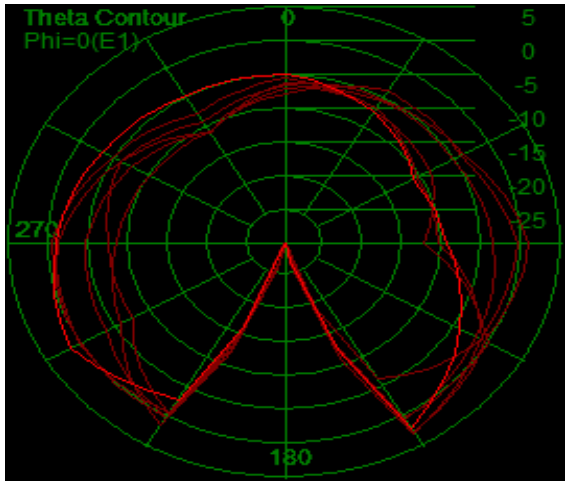


BT-antenna field pattern diagram

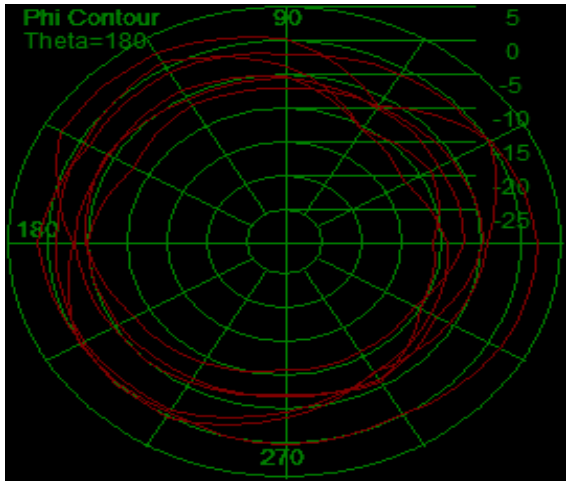
Thete=90（phi=270° 为正前方）



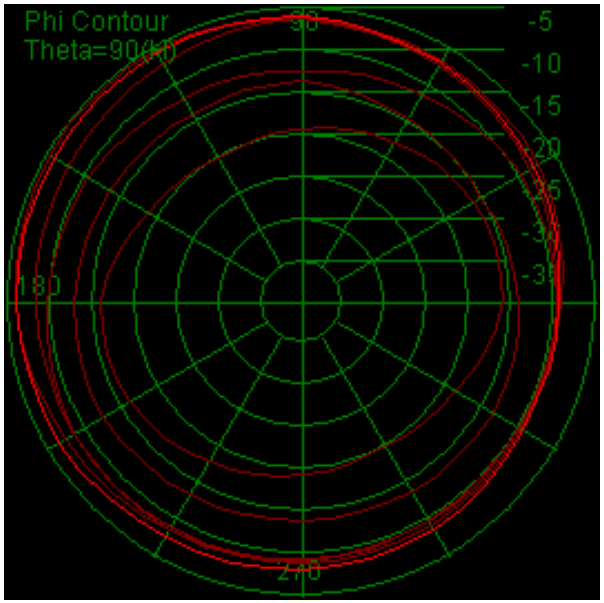
phi=90°



phi=180°

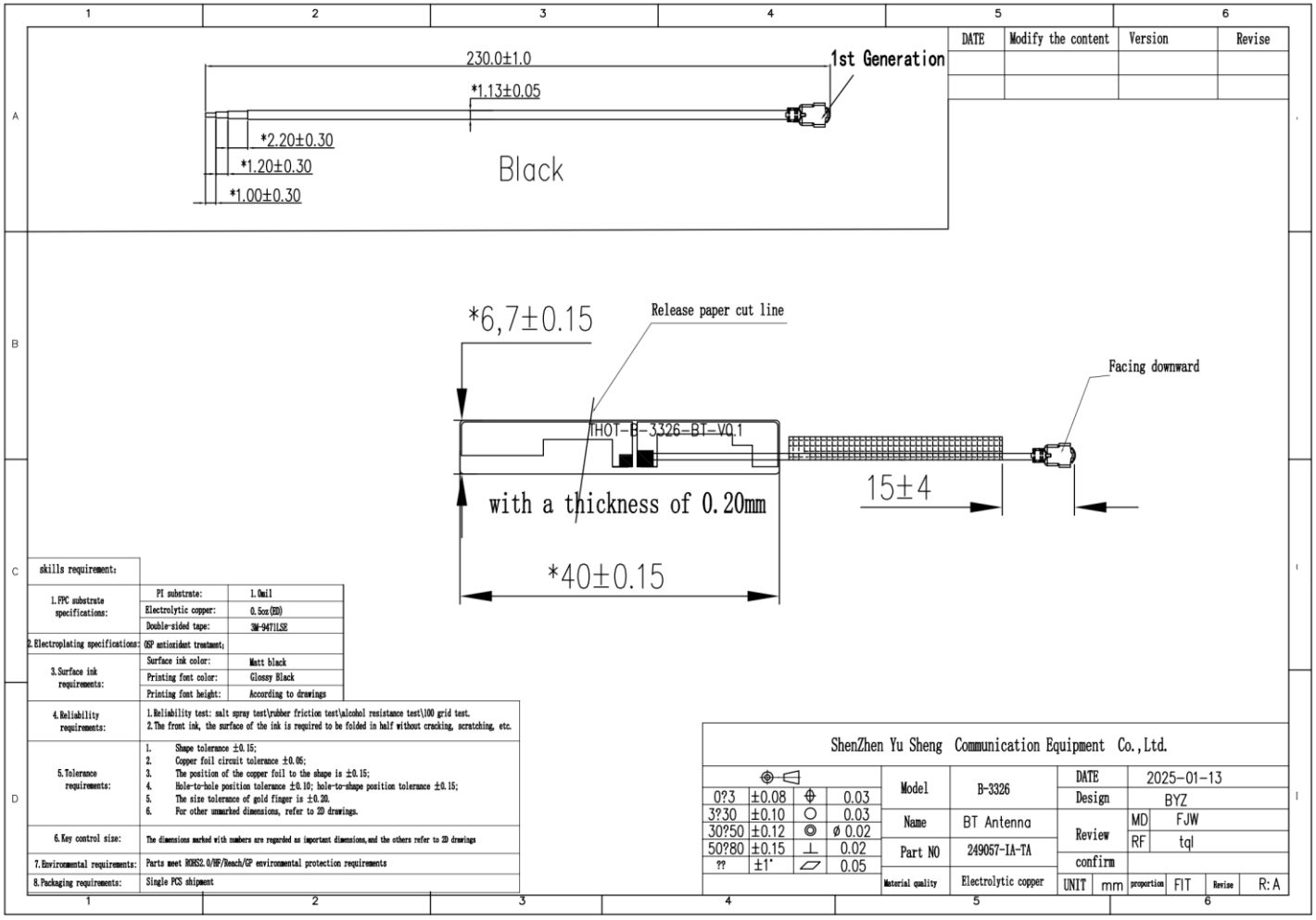


Antenna passive parameter-BT-antenna pattern



MIN= -6.15dbi

Antenna file



Thank you!

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