

Antenna Specifications

Model No. HS3100S-Woofer

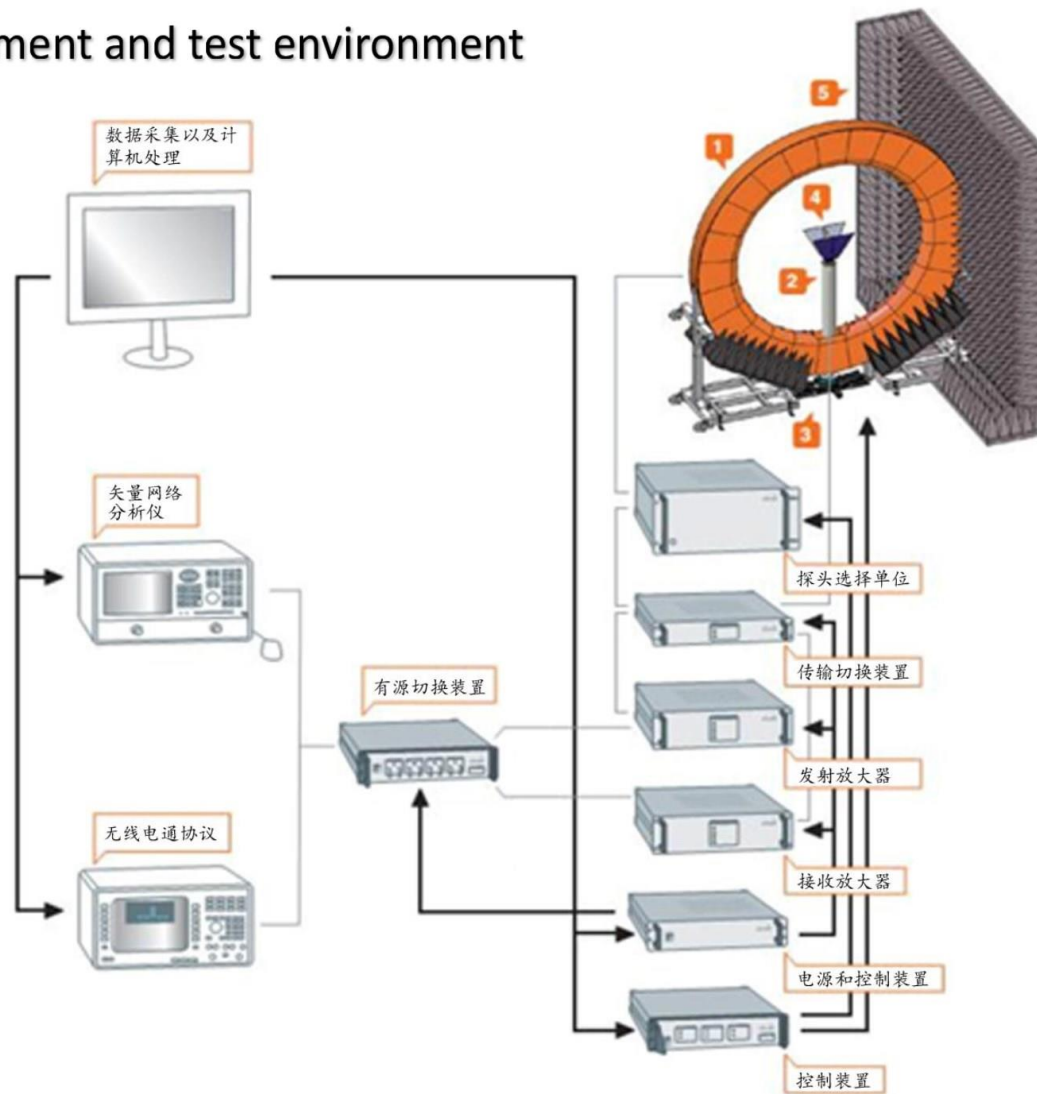
Manufacture Name: Eastech (Huizhou) Co., Ltd

Manufacture address :Building 6 (Unit 1 of 1/F and all units of 2/F to 8/F),
Meilonghu Intelligent Manufacturing Industrial Park (Phase II)
between Dongfong Village's junction with Chanjing Village of Xinxu,
No. 1, Xinglong Road, Xinxu, Huiyang, Huizhou City, 516226 Guangdong, P.R. China

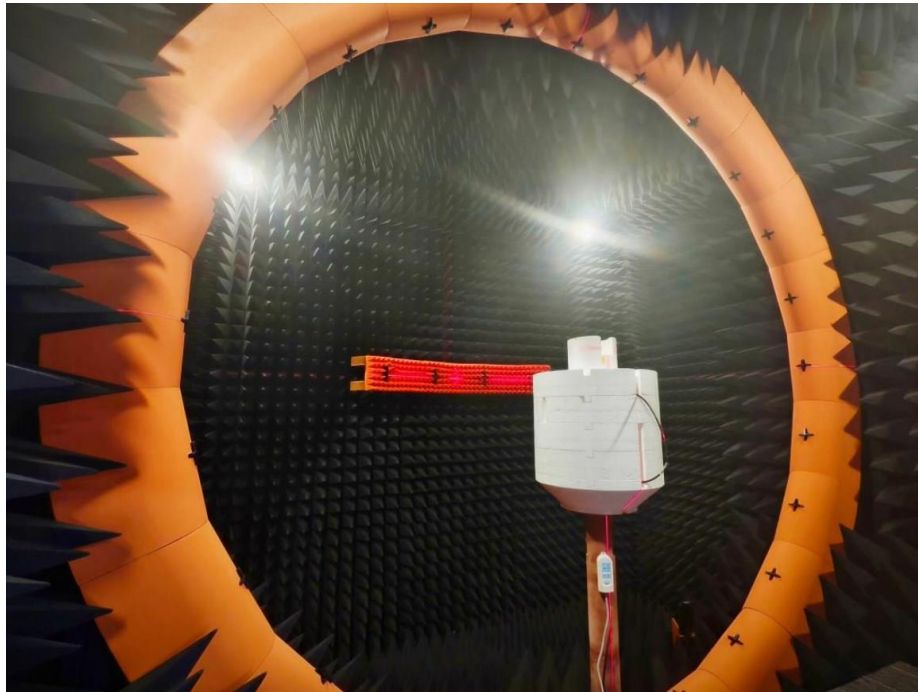
Tested BY: Xingxi Xia

Test data: 2026-5-22

Test equipment and test environment



Test equipment



Probe microwave anechoic chamber

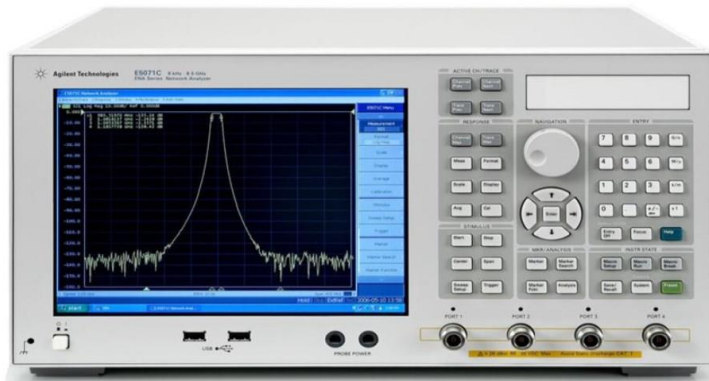


Frequency Range : 0.4GHz-12GHz

Main test indicators

- ◆ Passive indicators
- ◆ Gain ◆ Effectiveness
- ◆ 3D pattern
- Active indicator
- TRP total radiated power
- TIS total receiving sensitivity

Test equipment



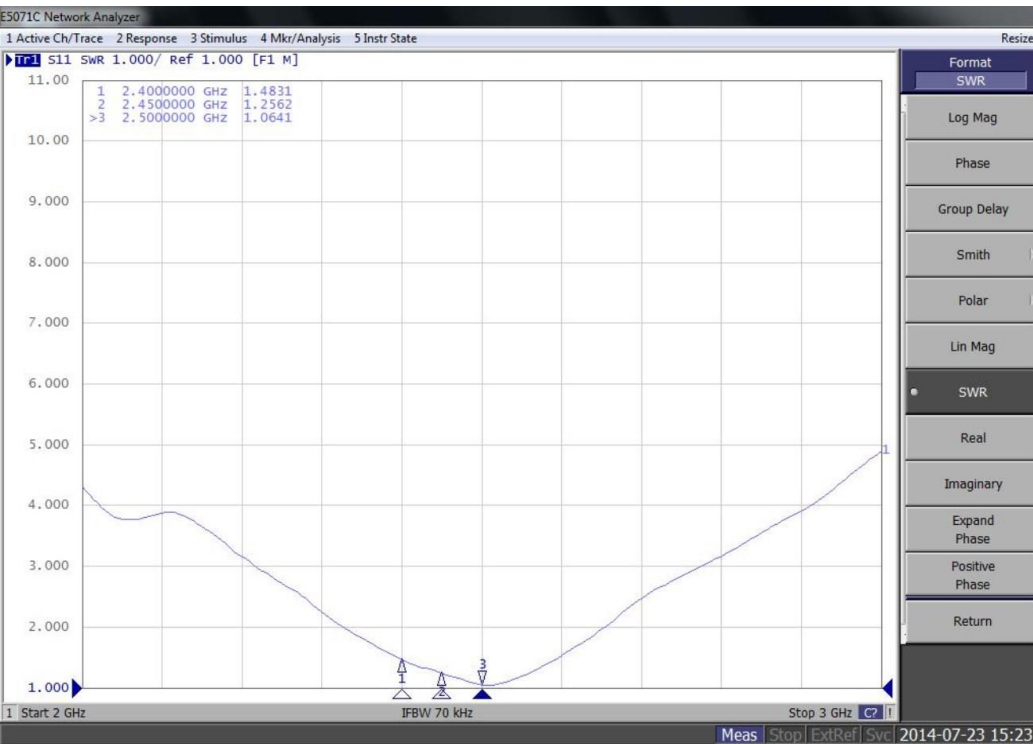
Frequency Range : 300 kHz - 8.5GHz



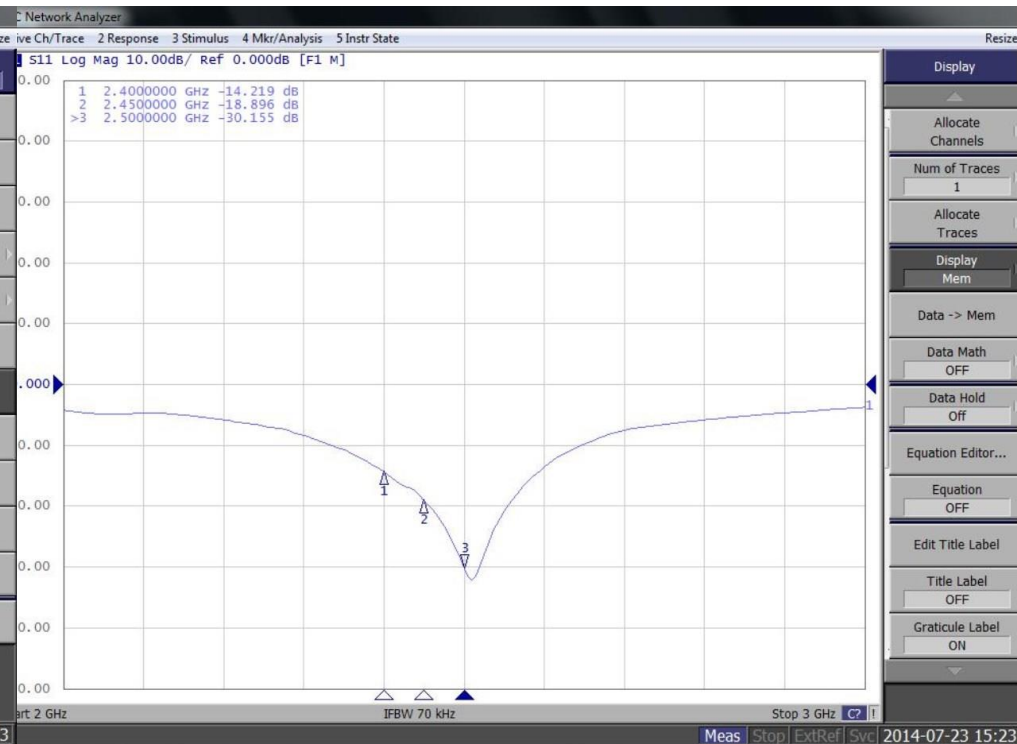
Agilent E5071C Vector network analyzer R&S CMW500
Broadband wireless communication tester

- GSM/3G/4G/e-MTC
- WIFI/ Bluetooth
- NB-IoT

Antenna SWR



Antenna Return loss

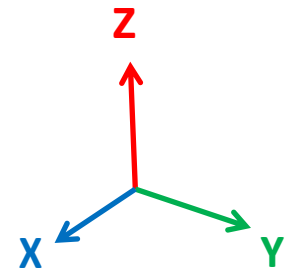
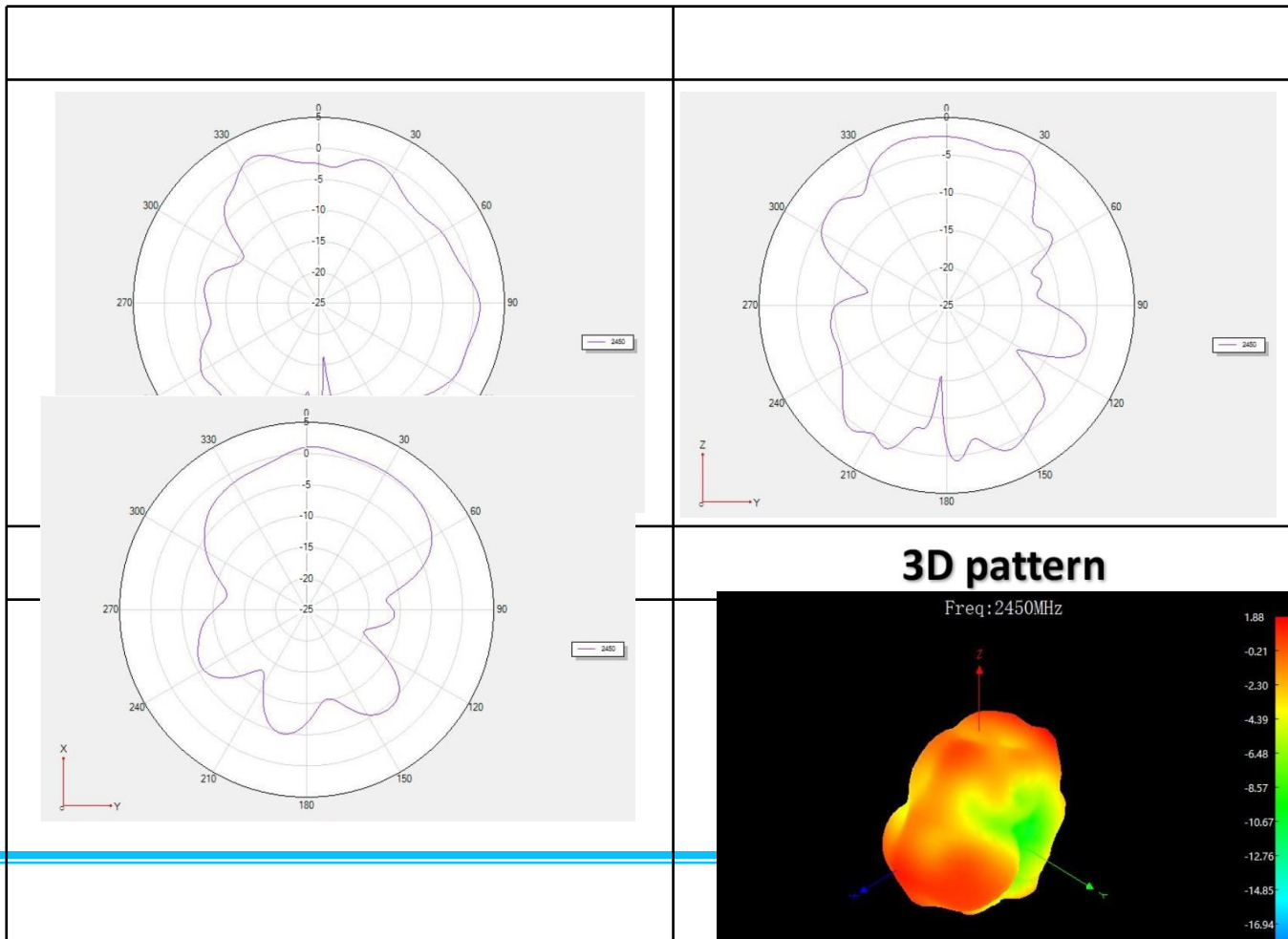


Antenna gain and efficiency

Freq(MHz)	Efficiency (%)	Gain(dBi)
2400	44.46	0.5
2410	46.13	0.54
2420	46.99	0.75
2430	48.87	1.34
2440	51.52	1.71
2450	50	1.88
2460	49.2	1.91
2470	49.66	1.74
2480	47.86	1.58
2490	46.99	1.48
2500	46.99	1.94

Phi 0 2D

Antenna Radiation Pattern



OTA Active data

OTA Active data			
(mode)	(channel)	TRP	TIS
Bluetooth	L(0)	8.98	-90.92
	M(39)	8.4	-92.51
	H(78)	7.1	-90.15

Antenna dimensions

