



深圳汉阳天线设计有限公司

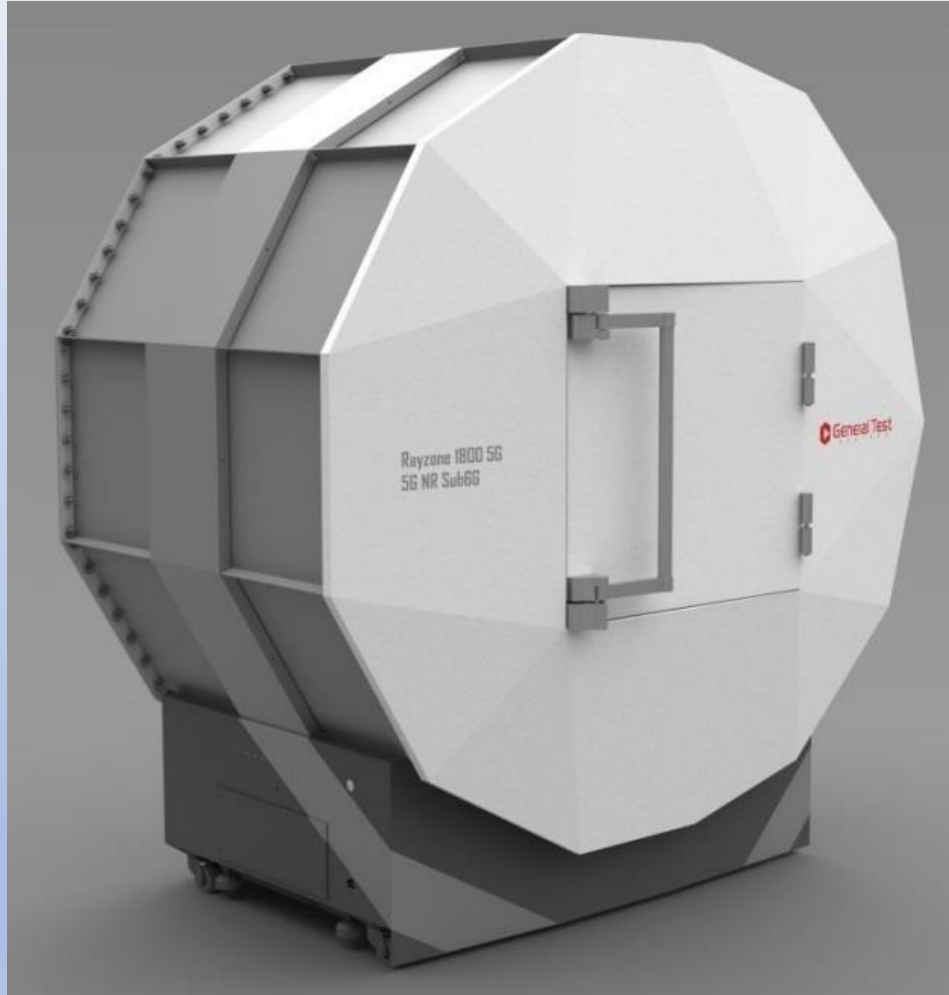
SHENZHEN HANYANG ANTENNA DESIGN CO.LTD.

Customer: GSD

Antenna Test Report

Project: WKXT0H

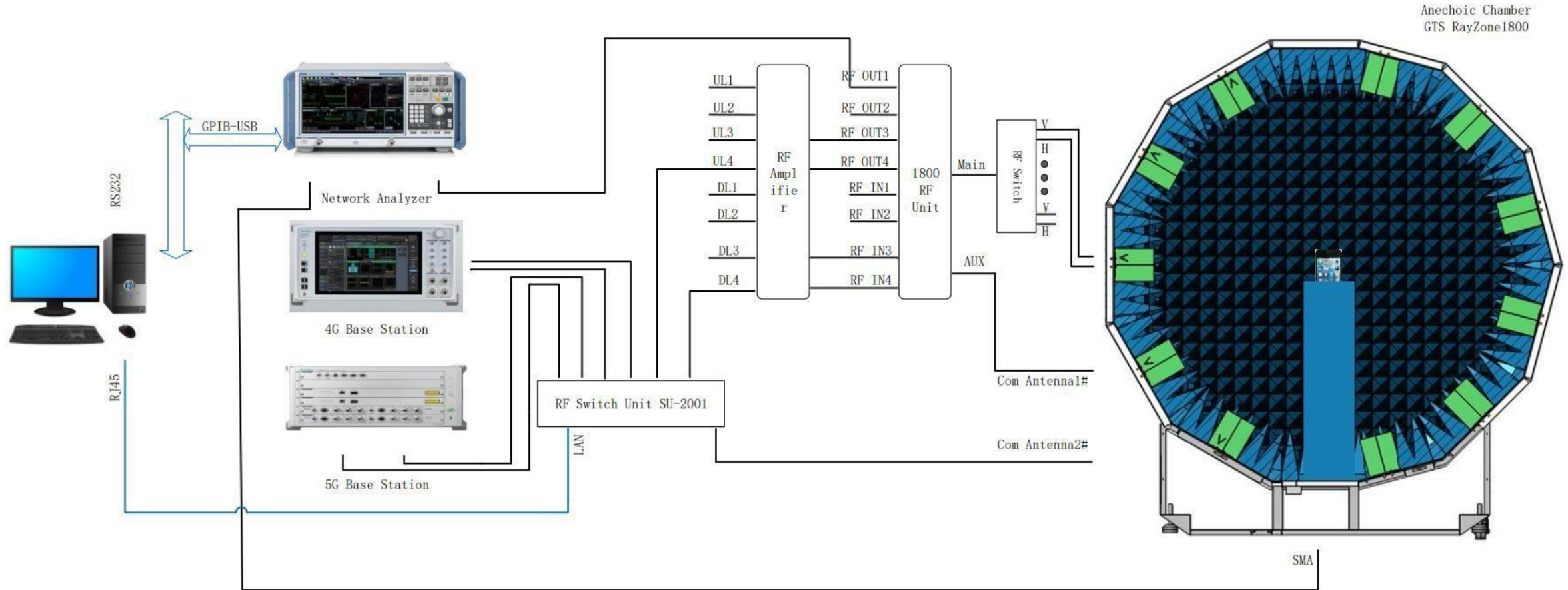
Date : 2023-12-12



Wireless communication standard:2G/3G/4G/5G(FR1)/GNSS/Wi-Fi/Bluetooth
Internet of Things communication standards:LTE Cat NB1(NB-LoT)/Cat-M1(e-MTC)
SISO test TRP/TIS/EIRP/EIS,2x2 MIMO Throughput test
Passive antenna test,Desense ,test ICS
Support 600MHz-7.5GHz frequency
GTS MaxSign 100 test software support antenna/OTA test, Provide visual data analysis
New EPP rigid and environmentally friendly absorbing material.
Low RCS high gain measurement antenna set , Transparent turntable and fixture
MIMO test fastly. Certification level test accuracy.
Integrated design,use and maintenance is simply.



RayZone1800 Test Setup





Address of the testing laboratory :Shenzhen Baoan District Qianjin 2 Road BaoYunda logistics information building 12A11

Test Date: 11/21/2023

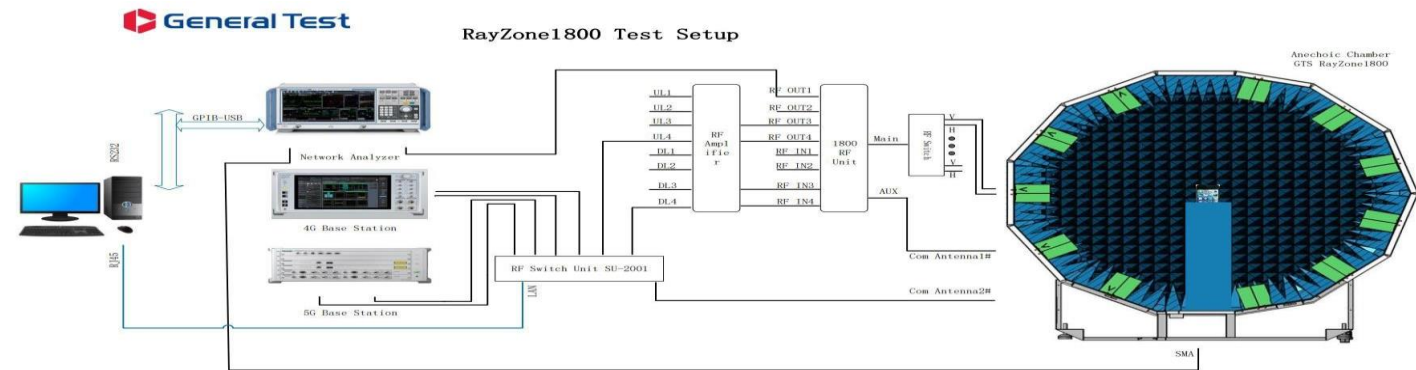
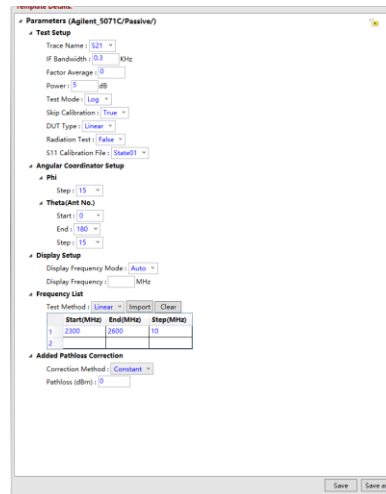
Test Engineer: Liu Deng

Software name and version: GTS_MAX SIGN Libra1.2.7

Cal Date:11/5/2023

Test Standard:Generic standard

Test set-up:



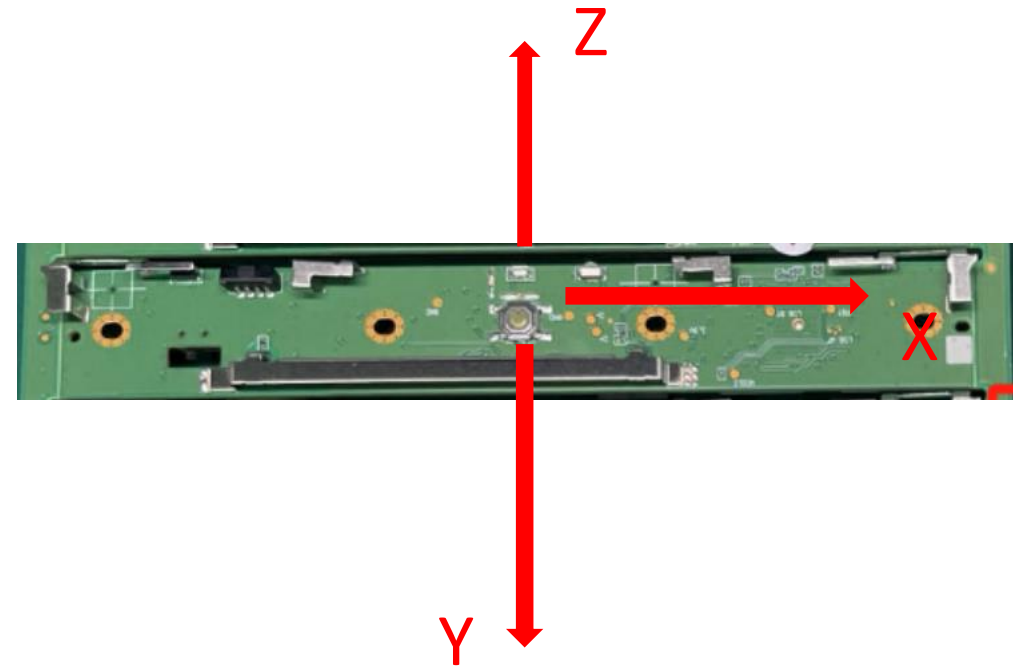
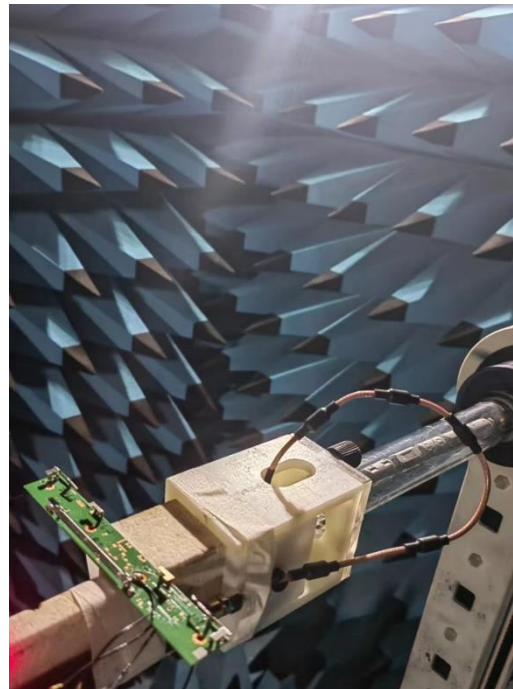
Test flow:

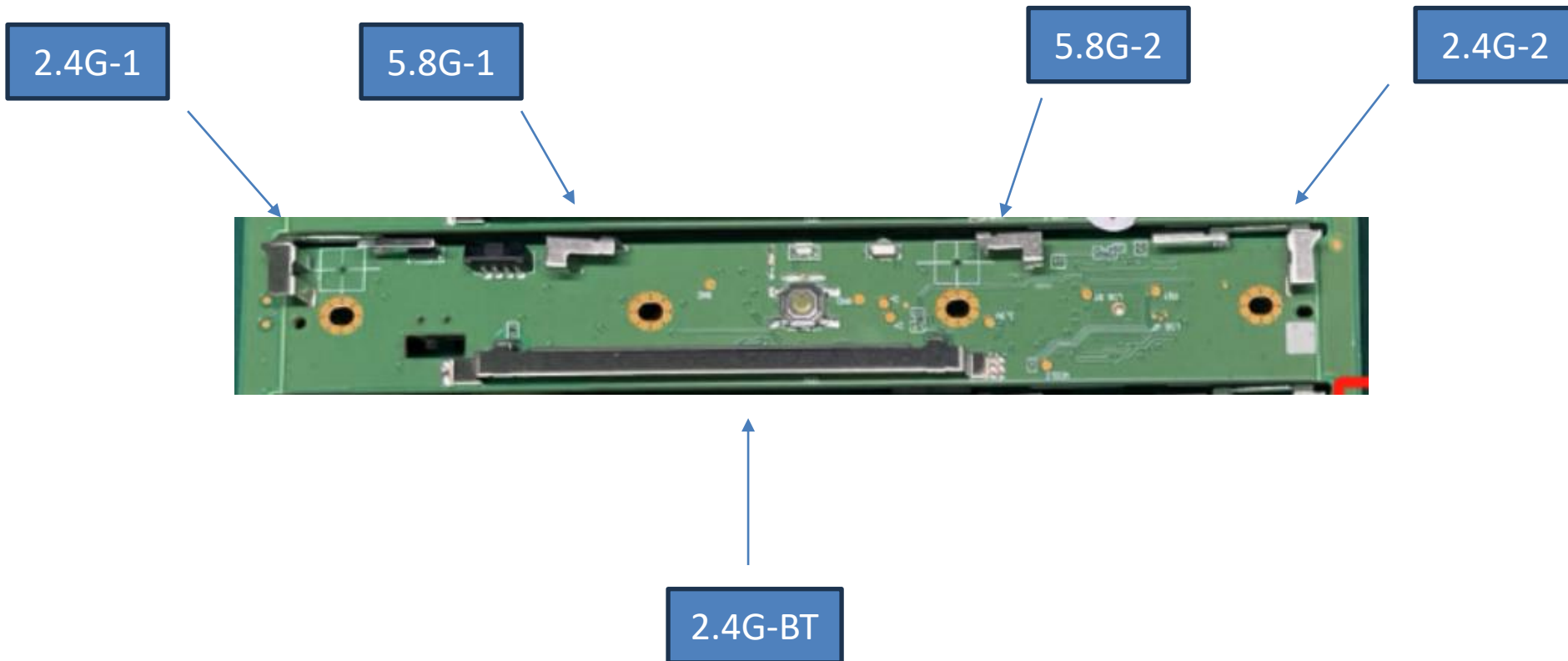


Equipment list

	Equipment	Manufacturer	model	SN	Last cal.	Dul Date
Equipment list	Network analyzer	Keysight	E5071C	MY47002902	2023.04.01	2024.03.30
	CMW antenna system	GTS	1800	/	2023.04.01	2024.03.30

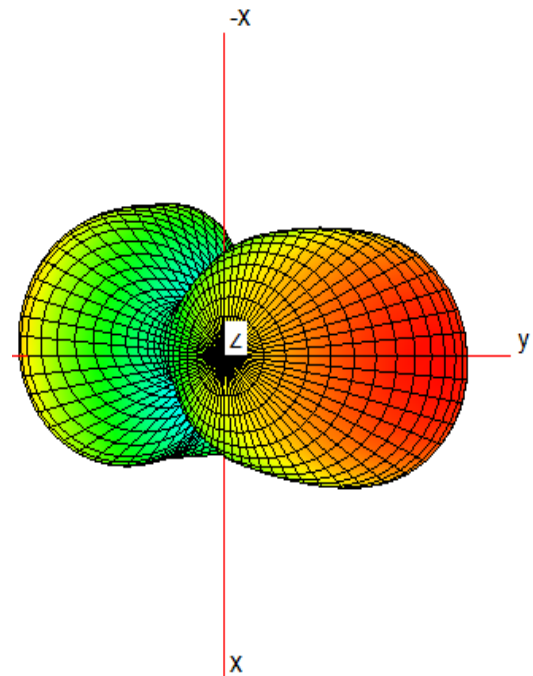
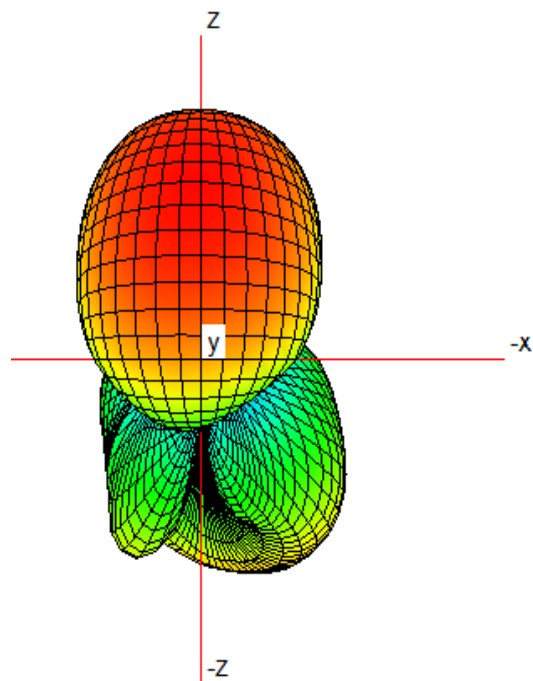
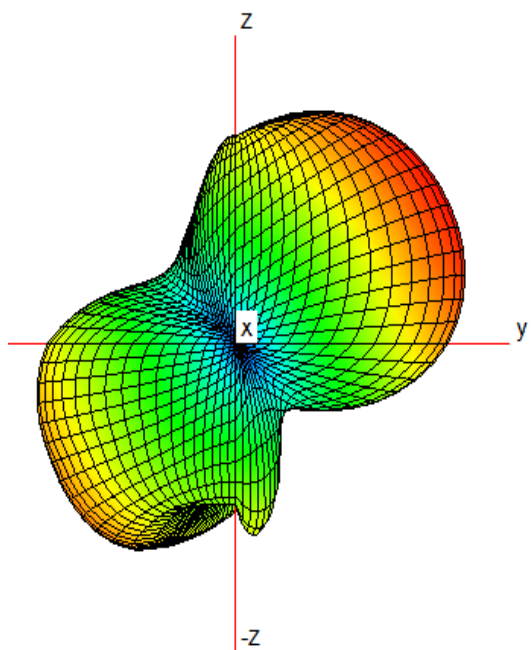
Setup Photo

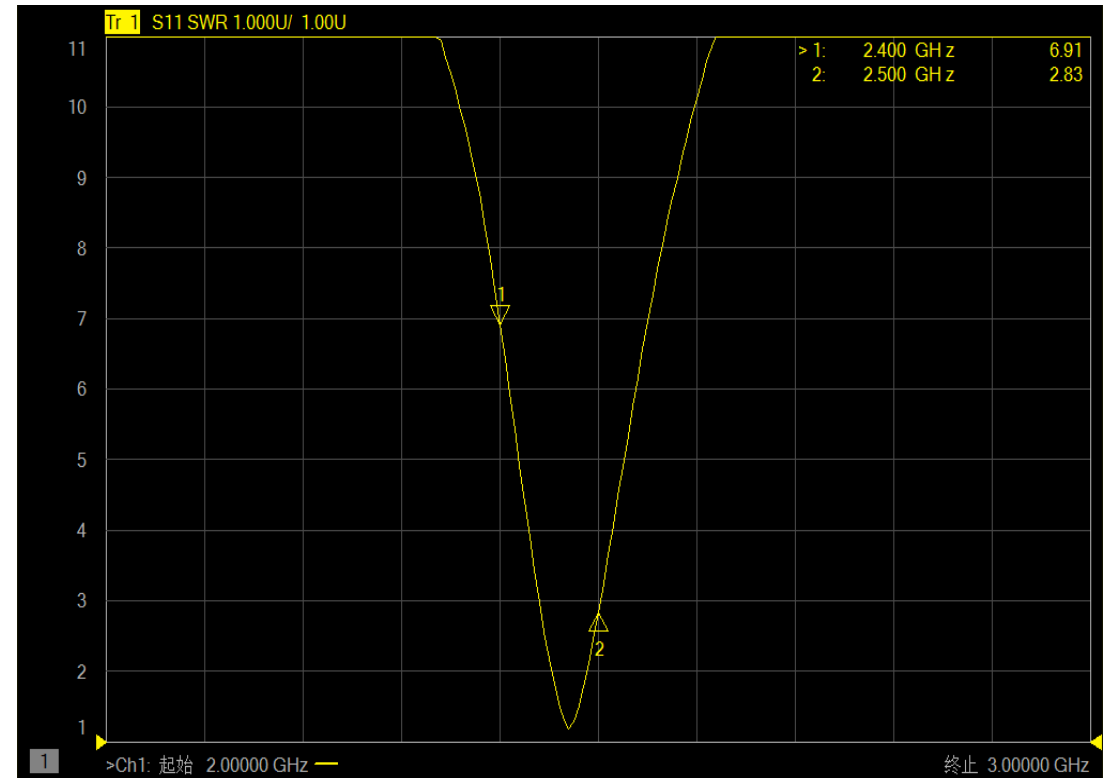
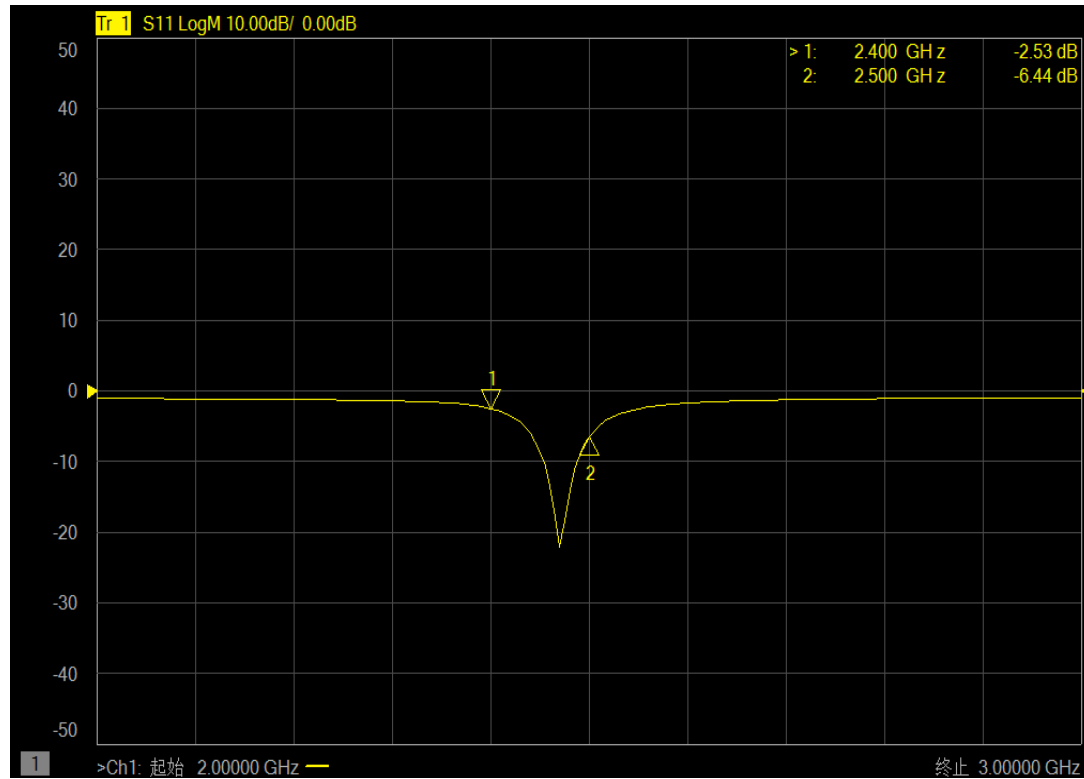




2.4G-BT			
Freq	Efficiency_dB	Gain	Efficiency_Pcent
2400	-10.23	-3.36	9.48
2410	-9.24	-2.31	11.91
2420	-8.25	-1.26	14.95
2430	-7.19	-0.17	19.09
2440	-6.18	0.9	24.08
2450	-5.37	1.75	29.01
2460	-4.72	2.43	33.69
2470	-4.43	2.78	36.02
2480	-4.56	2.7	34.90
2490	-5.09	2.22	30.99
2500	-5.75	1.59	26.62

2450MHZ

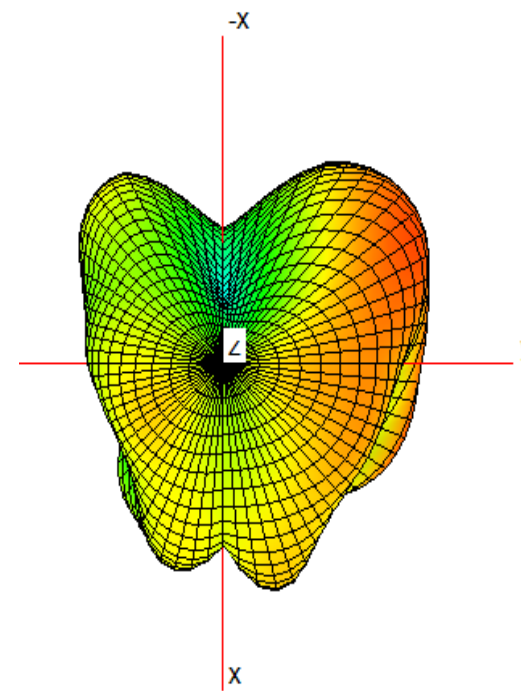
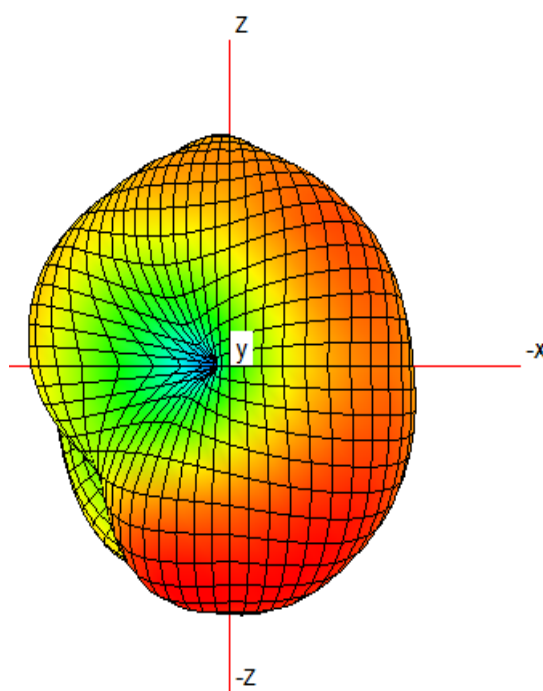
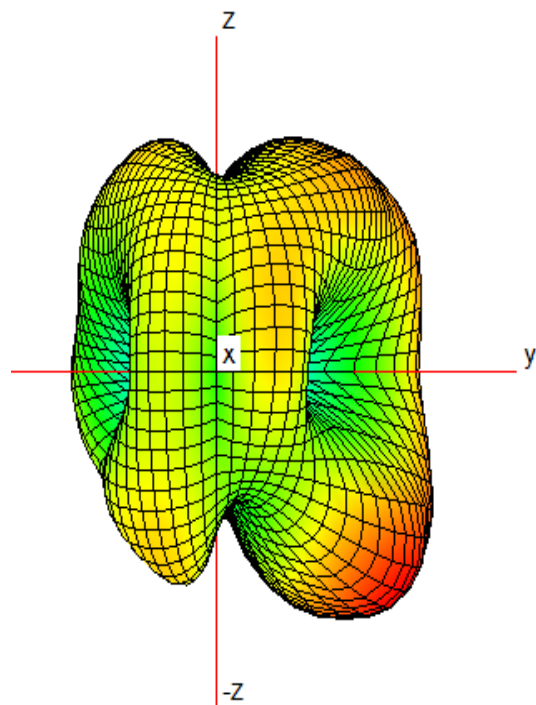


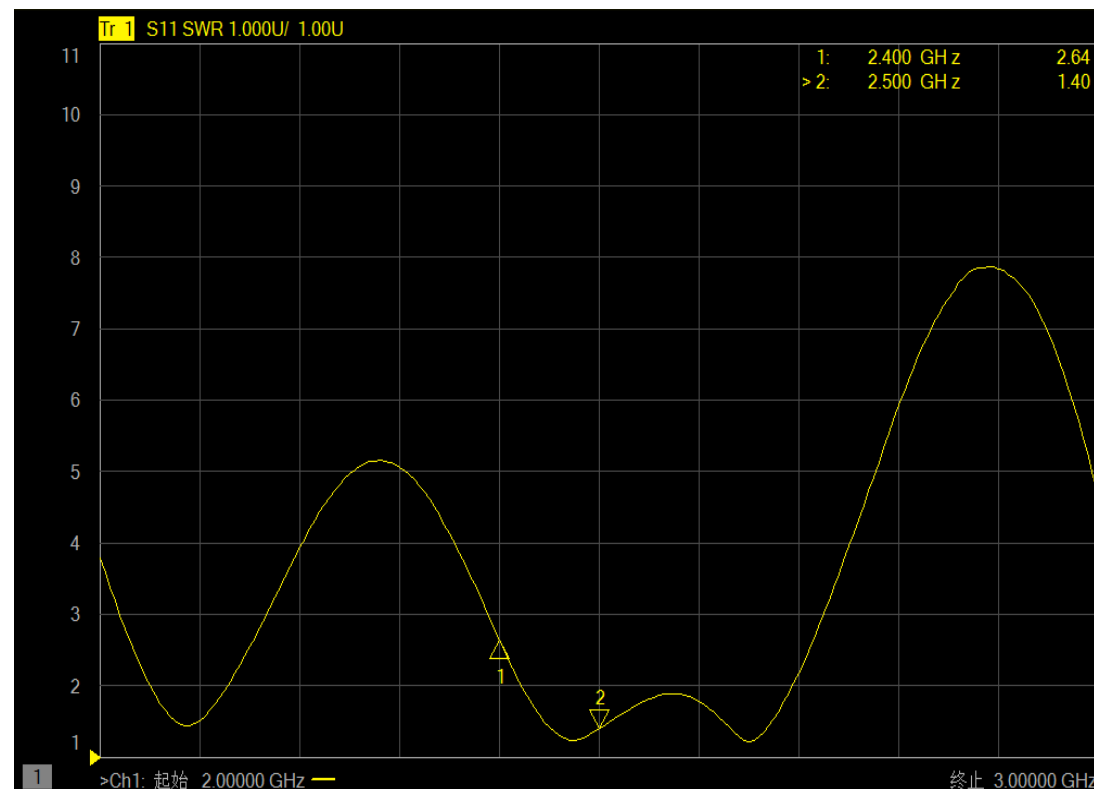
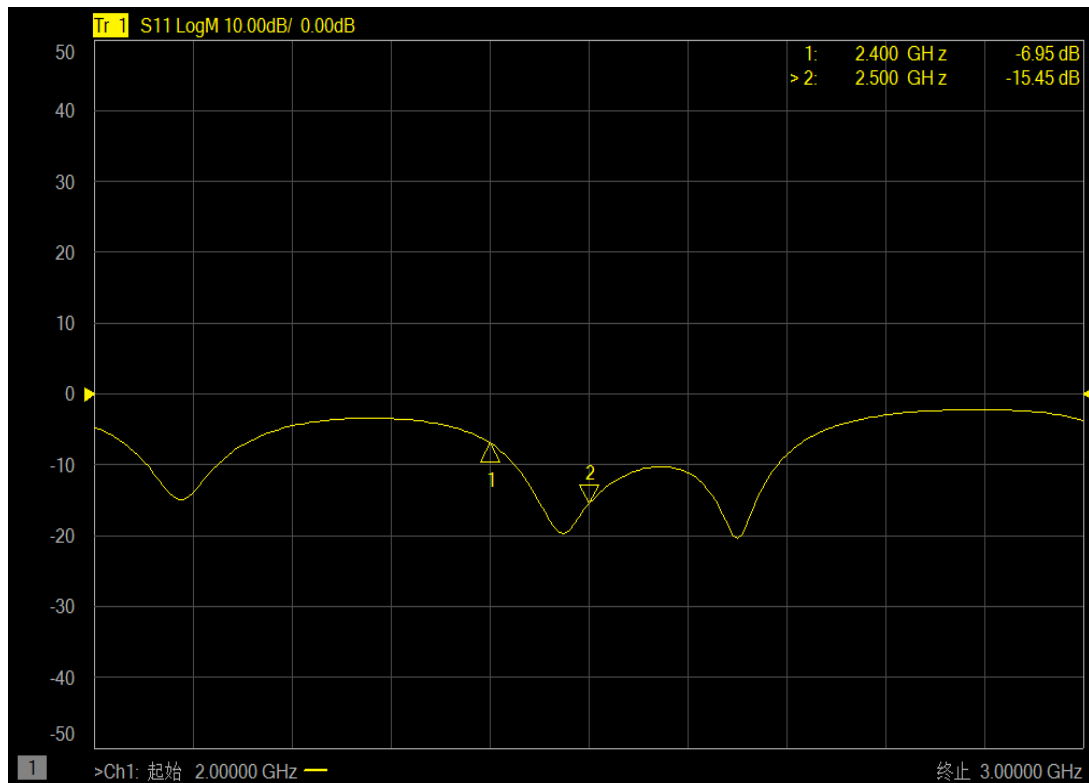


WiFi-2.4G-1			
Freq	Efficiency_dB	Gain_dBi	Efficiency_Pcent_%
2400	-9.94	-4.78	10.14
2410	-9.12	-3.94	12.25
2420	-8.3	-3.08	14.78
2430	-7.57	-2.33	17.48
2440	-6.97	-1.75	20.08
2450	-6.49	-1.26	22.43
2460	-6.02	-0.74	25.02
2470	-5.65	-0.38	27.22
2480	-5.36	-0.07	29.09
2490	-5.15	0.2	30.53
2500	-4.97	0.43	31.81



2450MHZ

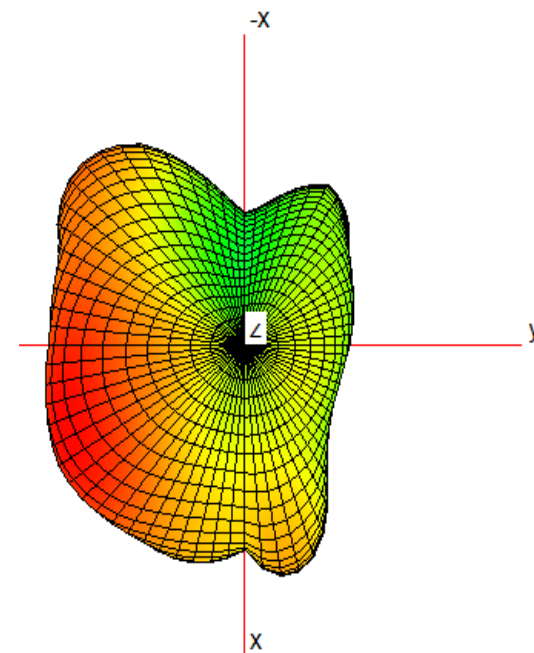
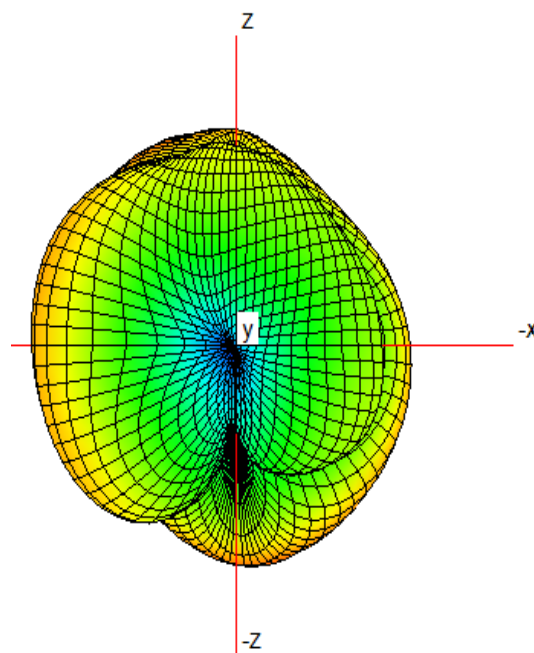
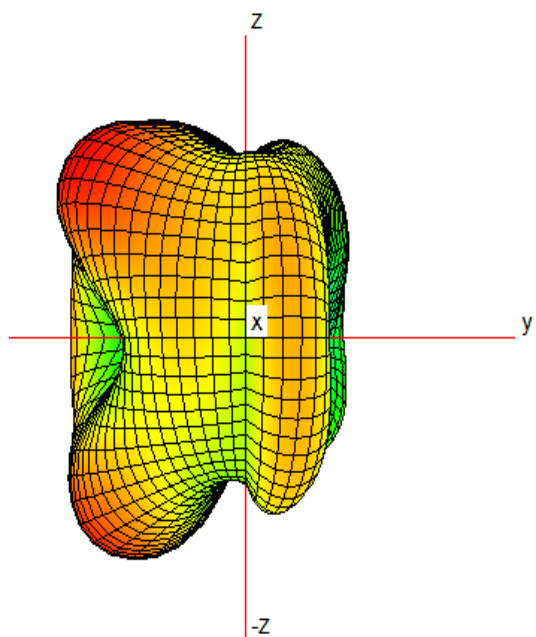


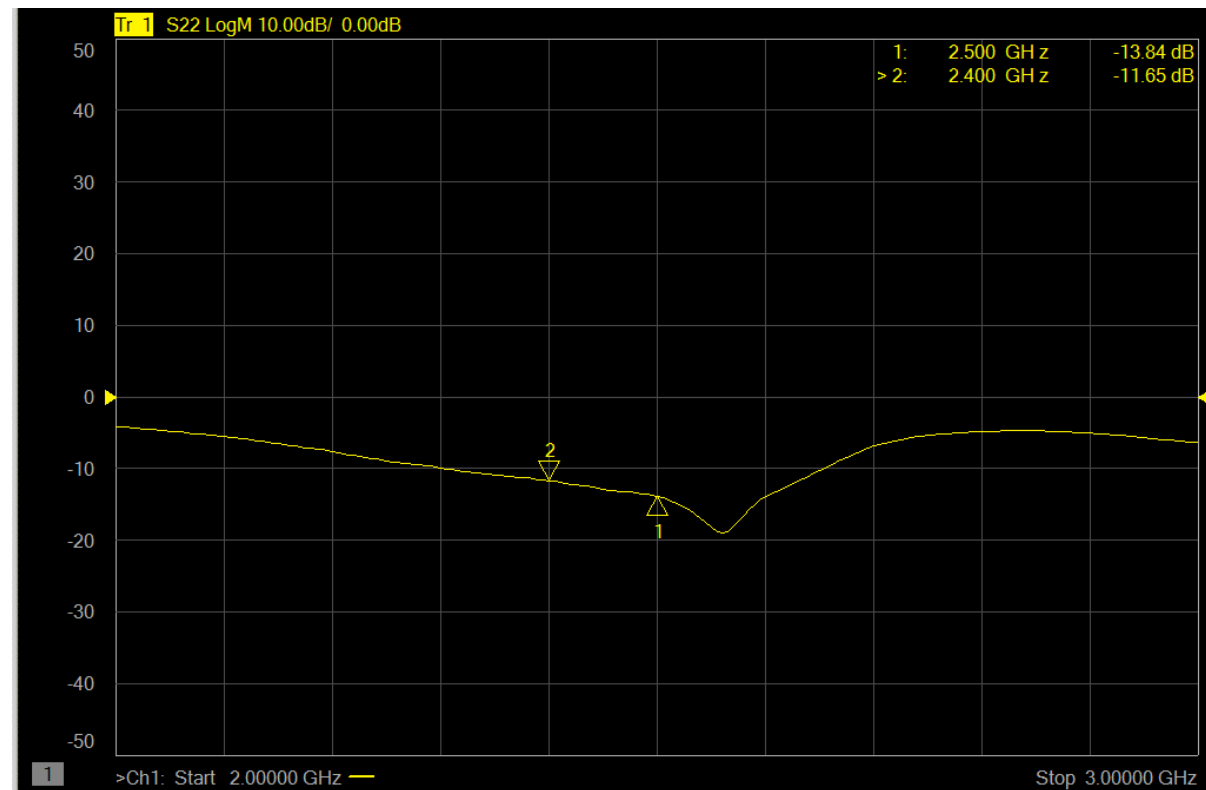
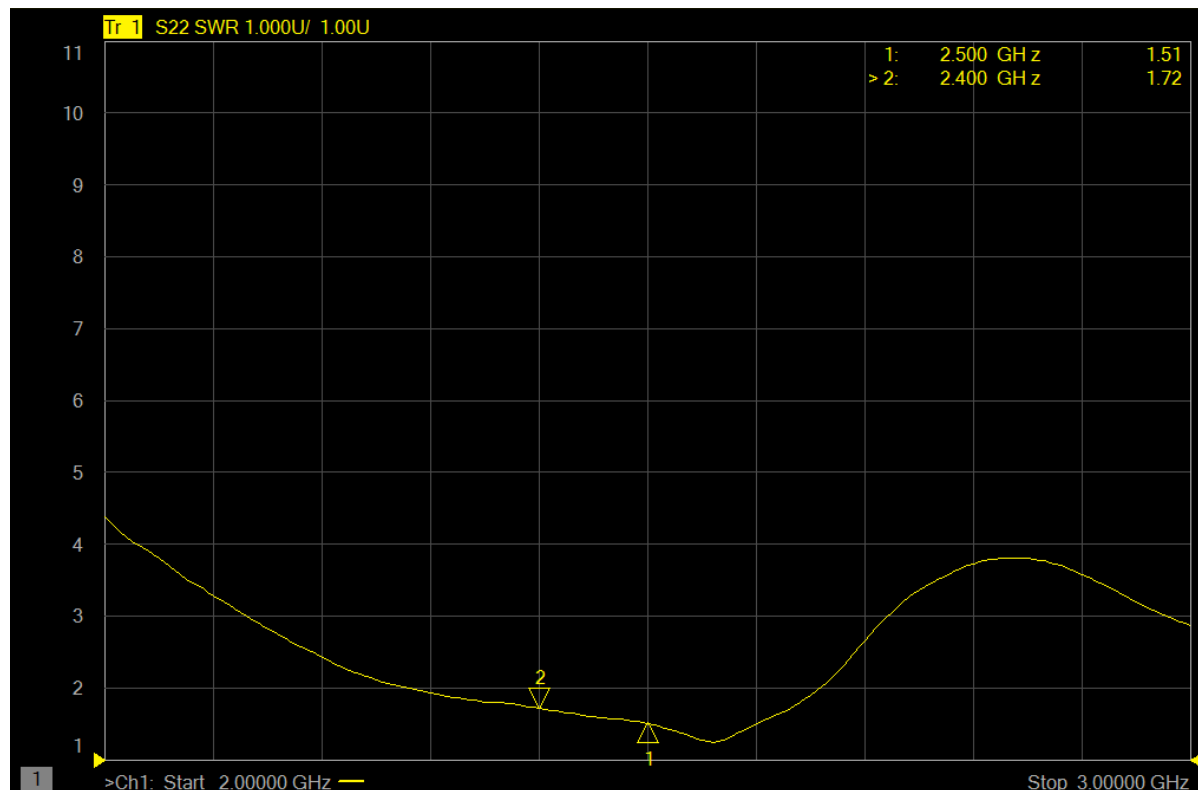


WiFi-2.4G-2			
Freq	Efficiency_dB	Gain_dBi	Efficiency_Pcent_%
2400	-6.69	-1.61	21.42
2410	-6.62	-1.65	21.76
2420	-6.54	-1.56	22.2
2430	-6.51	-1.53	22.34
2440	-6.45	-1.47	22.65
2450	-6.25	-1.67	23.71
2460	-6.07	-0.87	24.69
2470	-5.9	-0.89	25.7
2480	-5.77	-0.91	26.5
2490	-5.4	-0.27	28.84
2500	-5.22	0.12	30.07



2450MHZ



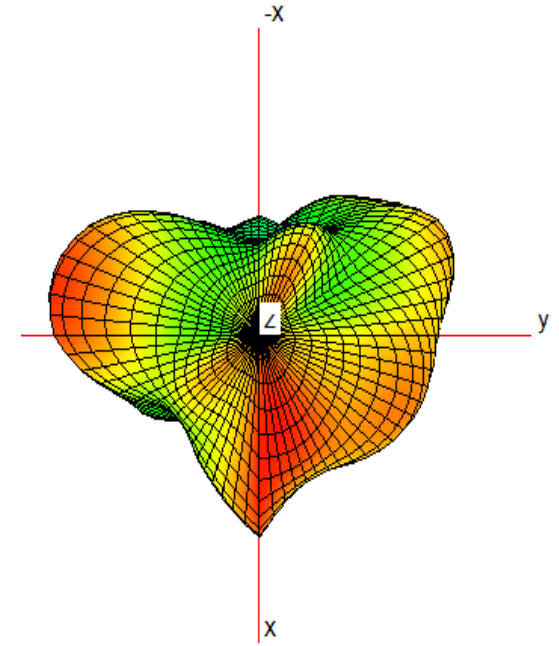
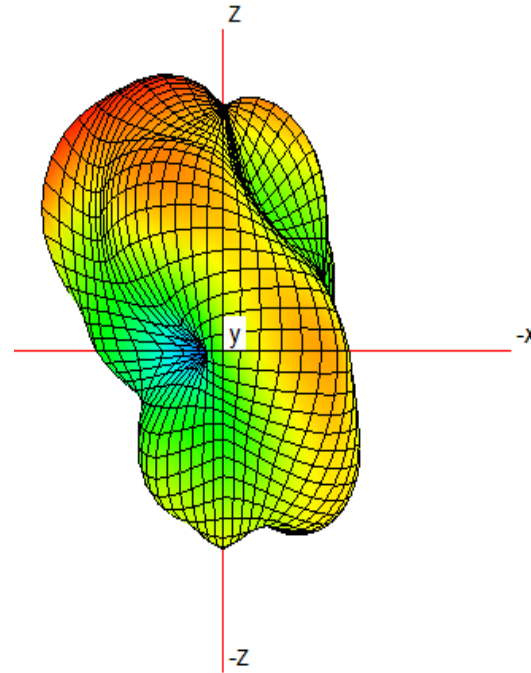
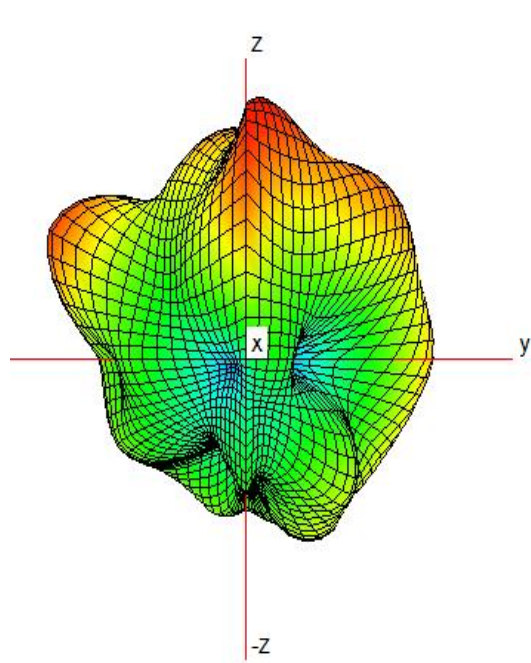


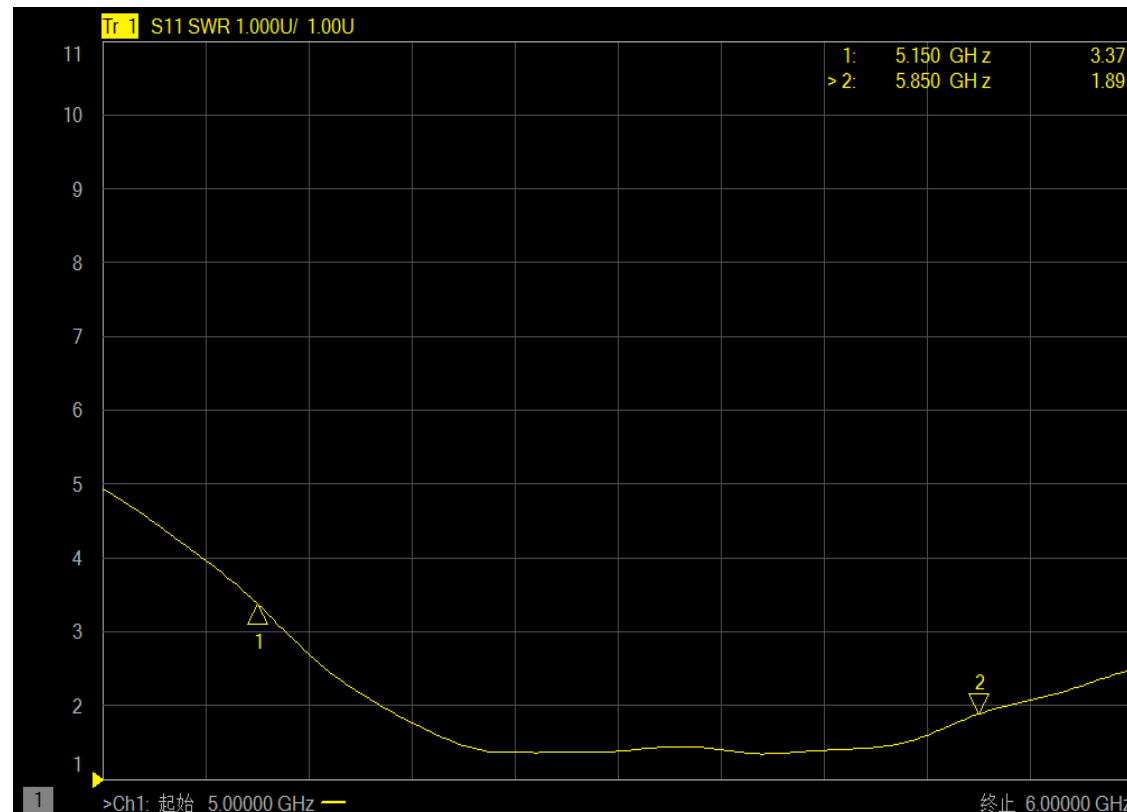
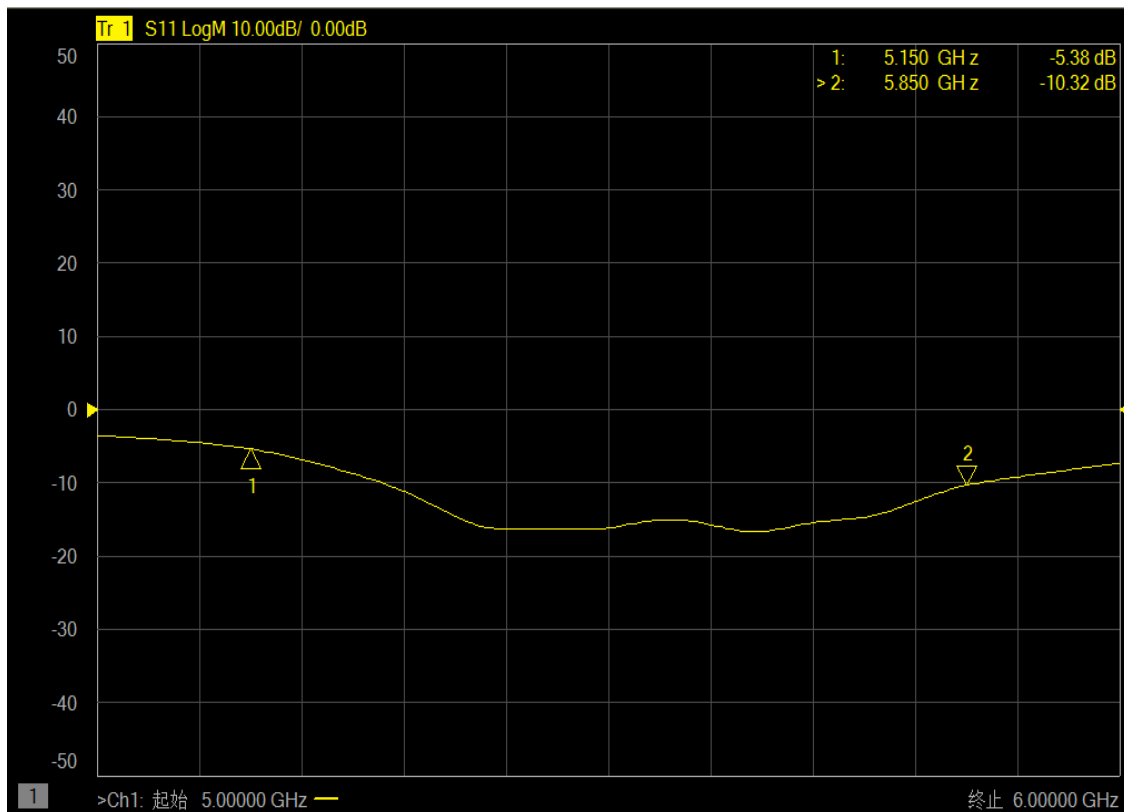


WiFi-5G-1			
Freq	Efficiency_dB	Gain_dBi	Efficiency_Pcent_%
5150	-6.92	-2.39	20.33
5225	-5.77	-0.93	26.51
5300	-4.98	0.38	31.80
5375	-4.11	0.94	38.80
5450	-3.88	1.42	40.94
5525	-4.01	1.18	39.68
5600	-3.72	1.29	42.45
5675	-3.68	1.13	42.88
5750	-3.66	0.82	43.06
5800	-3.63	0.44	43.38
5850	-3.63	0.29	43.39



5500MHZ



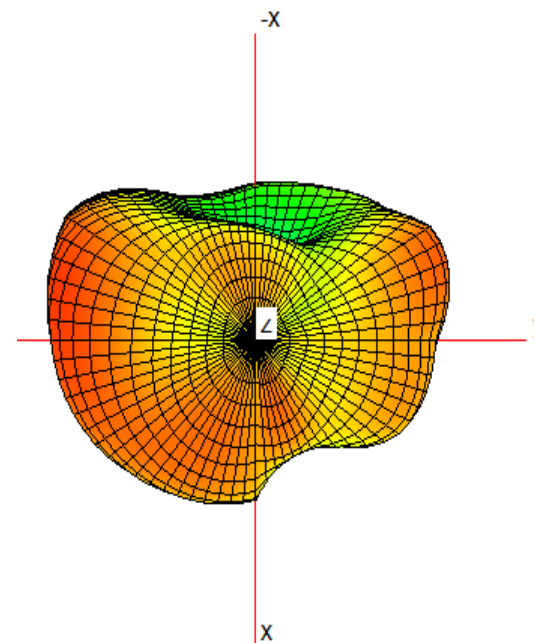
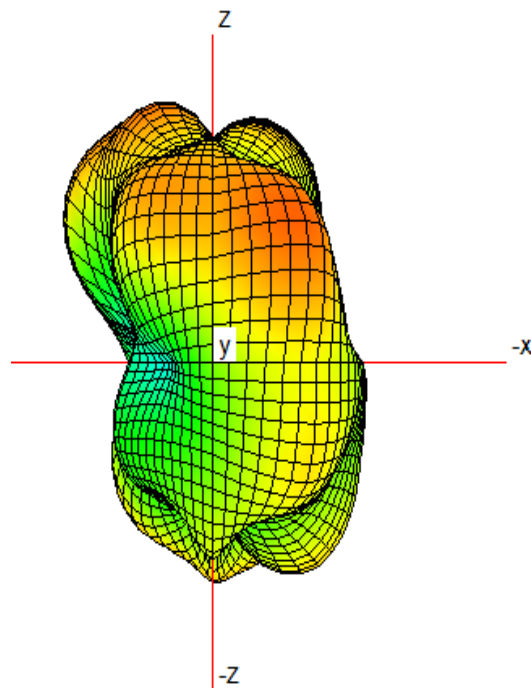
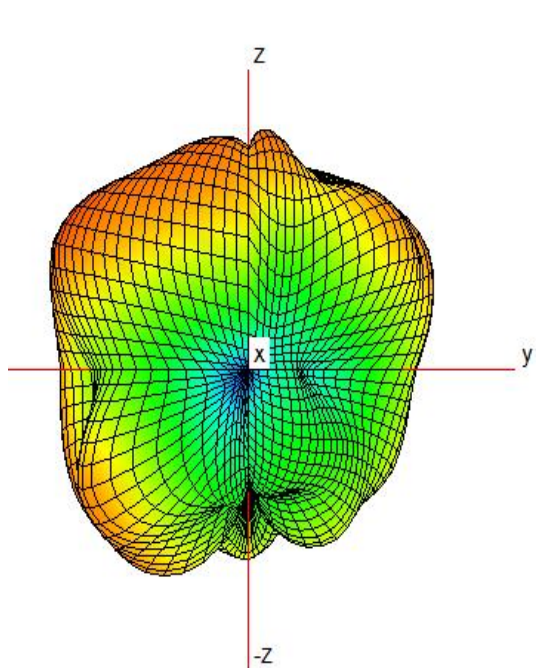


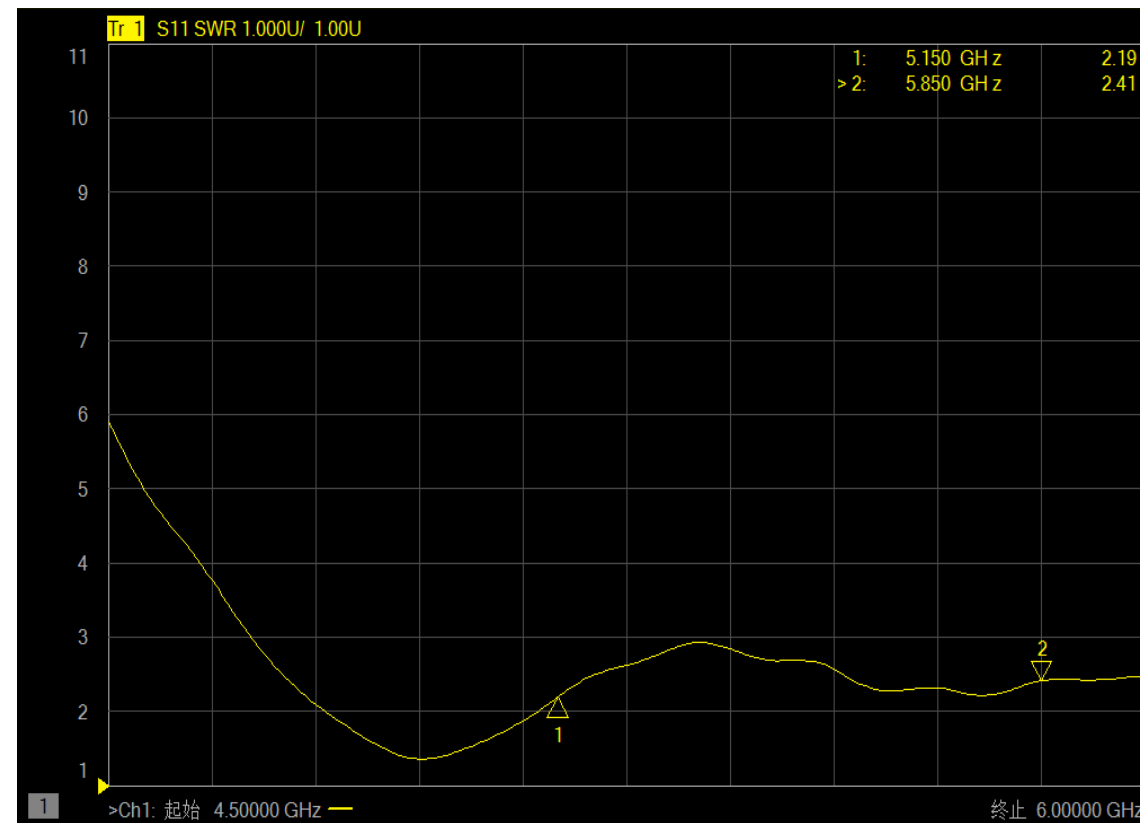
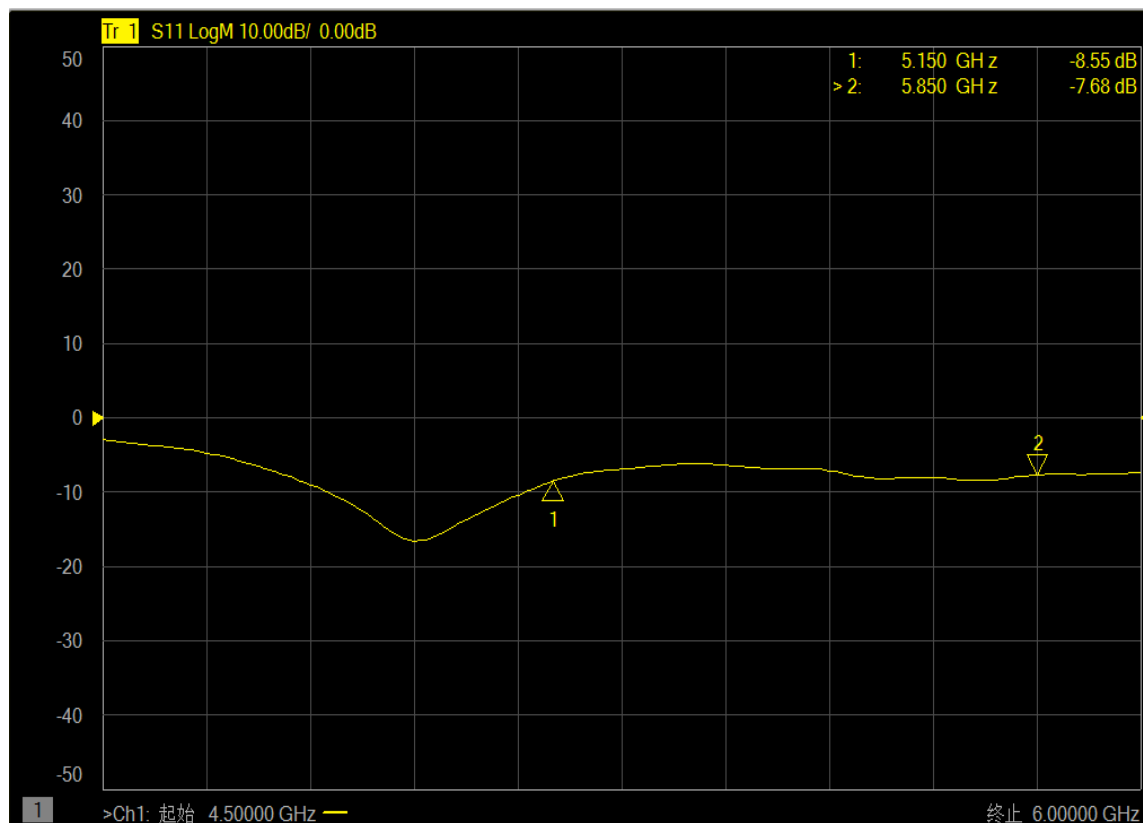


WiFi-5.8G-2			
Freq	Efficiency_dB	Gain_dBi	Efficiency_Pcent_%
5150	-3.01	1.53	49.98
5225	-3.09	1.1	49.06
5300	-3.51	0.76	44.59
5375	-3.56	0.9	44.08
5450	-3.49	1.16	44.75
5525	-3.41	1.06	45.60
5600	-3.17	1.21	48.24
5675	-3.05	1.06	49.55
5750	-2.94	1.04	50.81
5800	-2.84	1.24	51.98
5850	-3.05	1.36	49.60

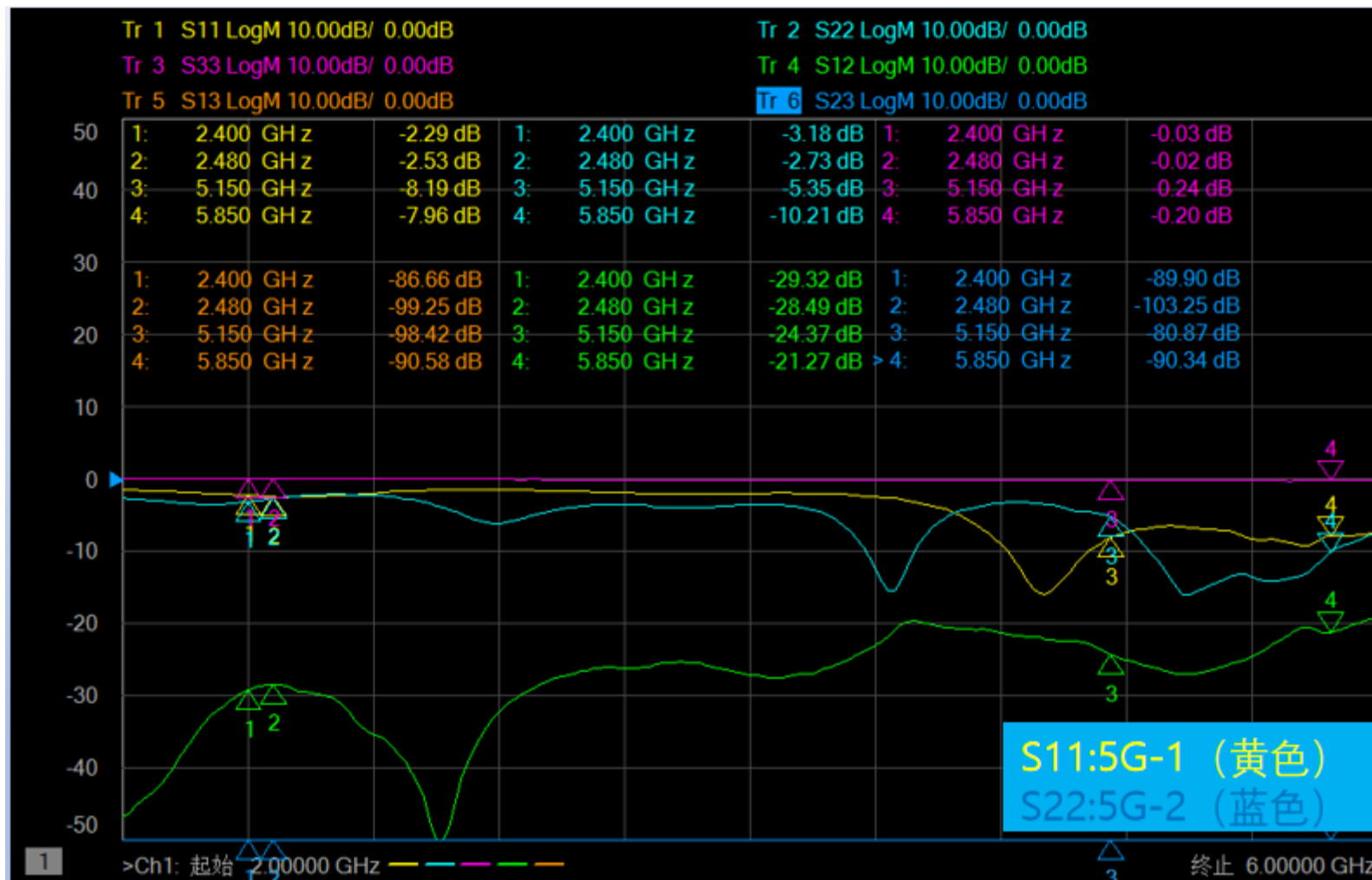


5500MHZ











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Welcome calls consultations, negotiations and guidance come!

Thank you

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