

Report OF THE SKYLINE TEST

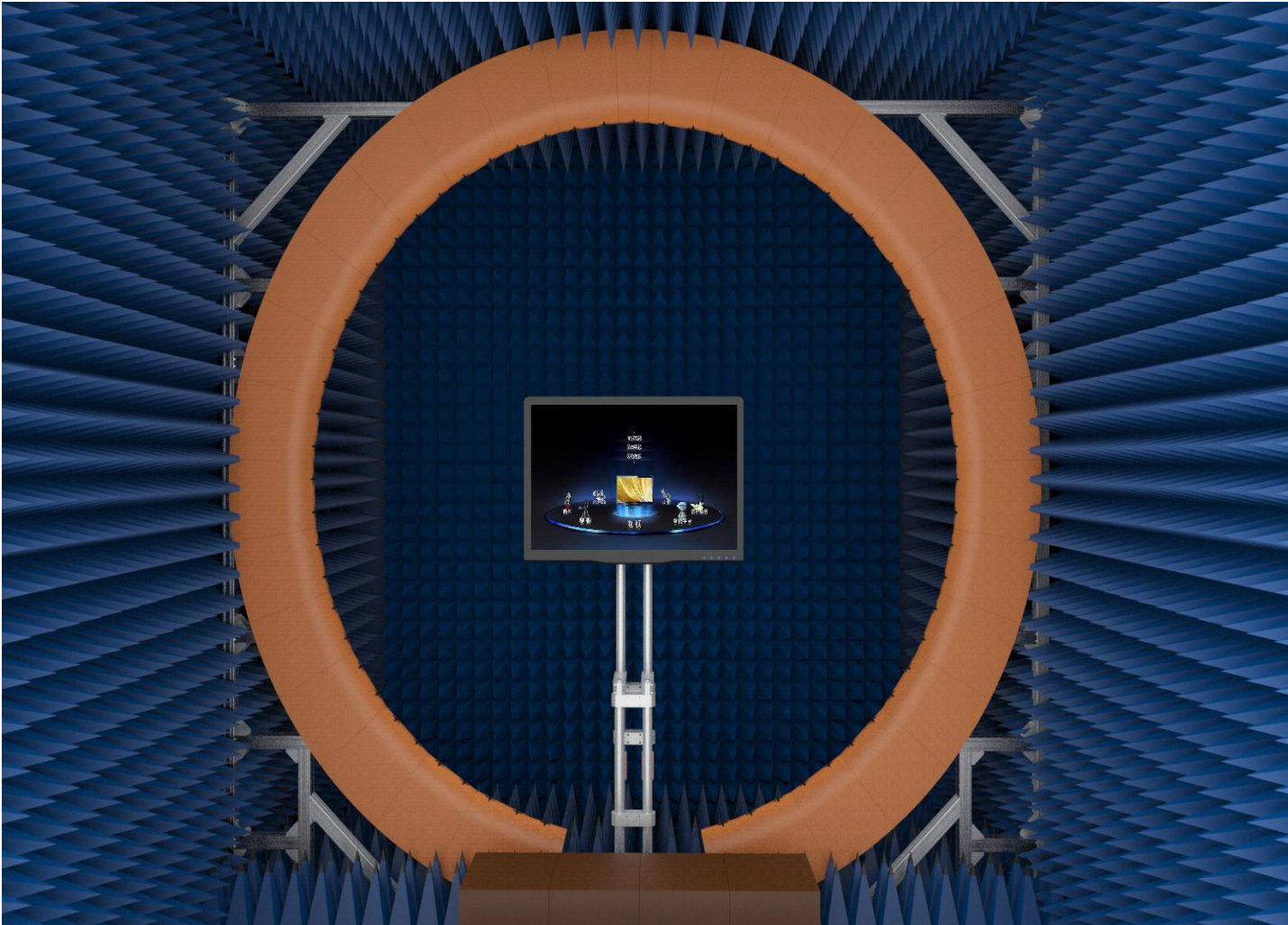
Customer Name: Aipike

Project Name: CJ4529

Report version: 2025.7.25 A4

Research: Fu Xiong

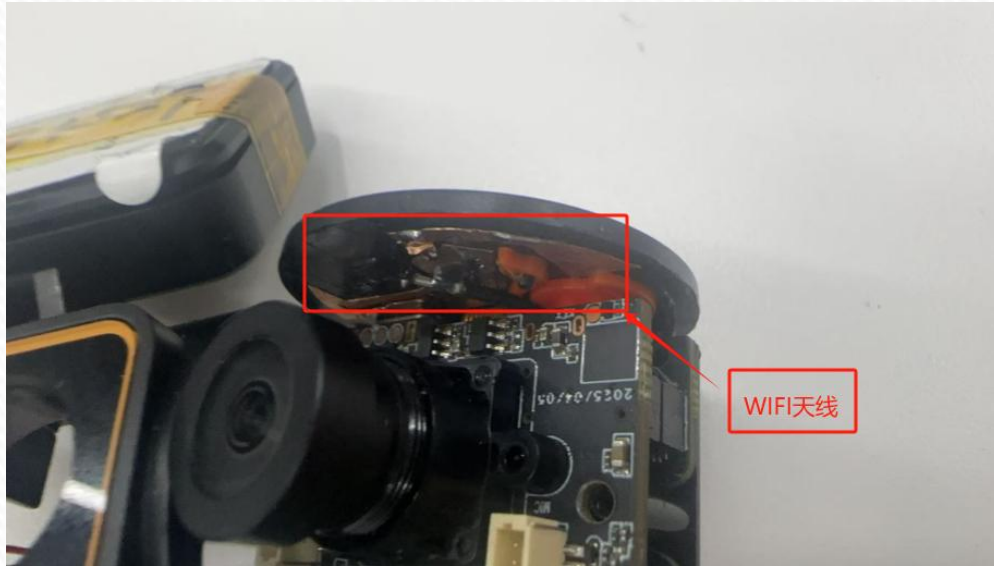
Prototype status	Active debugging machine	Project prototype diagram: 
Product type	Vehicle recorder	
Number of antennas	2	
Antenna band	2G: N/A	
	3G:N/A	
	4G-LTE:N/A	
	5G-NR:N/A	
	WIFI2.4+ ceramic antenna GPS/BD	
Structural style	FPC	
Environmental treatment	No changes	
Building-out circuit	No changes	



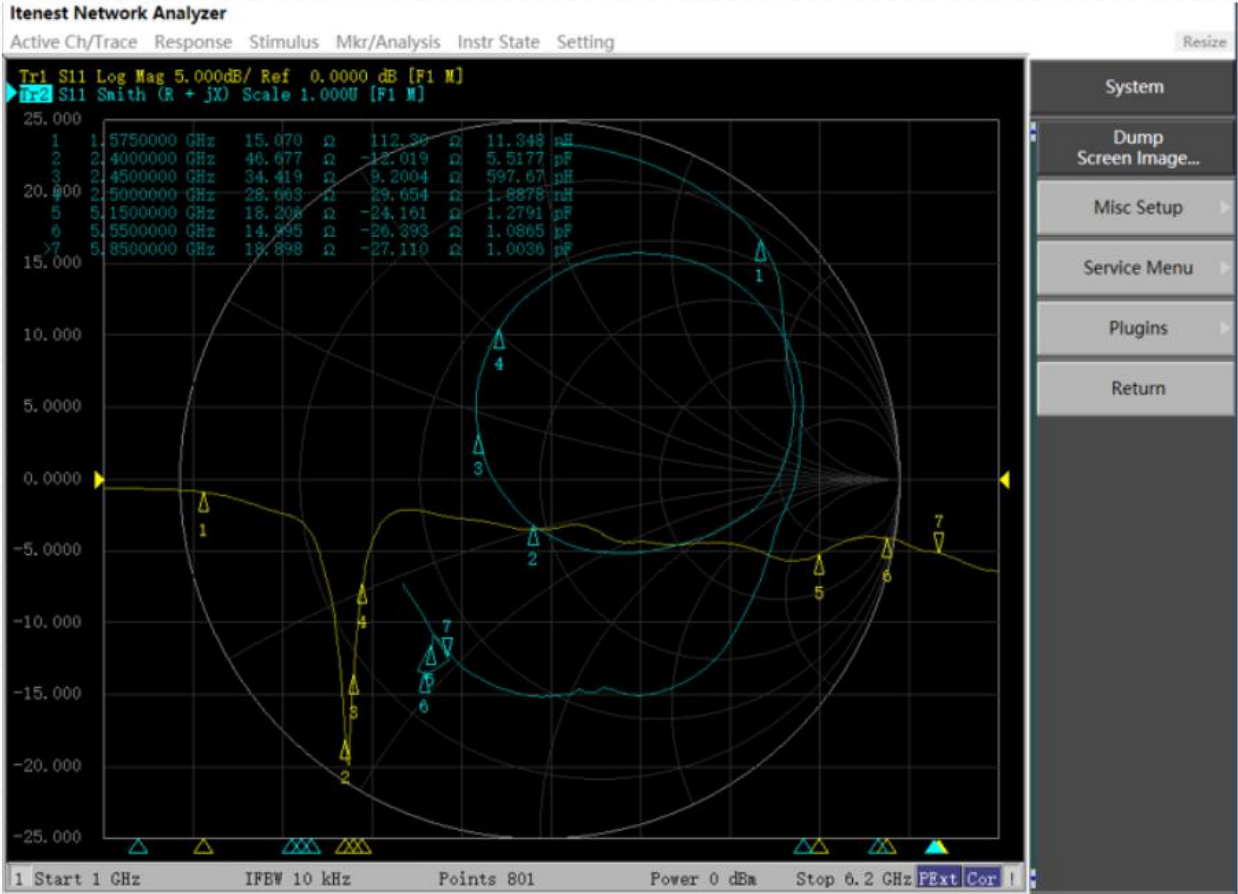
Industry-leading OTA darkroom:

64 probes; dimensions of 6 meters in length, width, and height; test item dimensions up to 2 meters

Device name	Total quantity	Shanghai Research Number of distribution centers	Shenzhen Research Number of distribution centers	Chongqing Research Number of distribution centers
OTA laboratory	10 seats	4 seats	5 seats	1 seat
5G Comprehensive Tester (SP9500-CTS)	3 units	1 unit	1 unit	1 unit
R&S Comprehensive Tester (High-End CMW500)	7 sets	3 units	3 units	1 unit
ANLI Multimeter (8820)	4 units	2 units	2 units	---
NB-IoT Comprehensive Tester (SP8315)	3 units	1 unit	1 unit	1 unit
Agilent 8960 Multimeter	9 units	4 units	4 units	1 unit
Agilent Network Analyzer (E5062A)	7 sets	3 units	3 units	1 unit
Agilent Network Analyzer (E5071C 8.5GHz)	11 units	5 units	5 units	1 unit
Agilent Network Analyzer (E5071B 8.5GHz)	10 units	5 units	5 units	1 unit
R&S Network Analyzer (ZND)	10 units	5 units	4 units	1 unit
R&S Network Analyzer (ZVB)	3 units	1 unit	1 unit	1 unit
OTA head hand/ear canal/arm	5 sets	2 sets	2 sets	1 set
GPS/WIFI active test equipment	5 sets	2 sets	2 sets	1 set



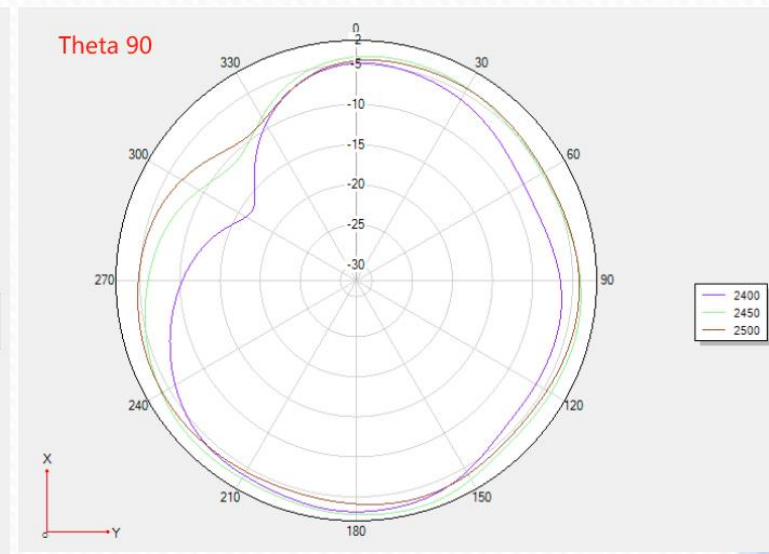
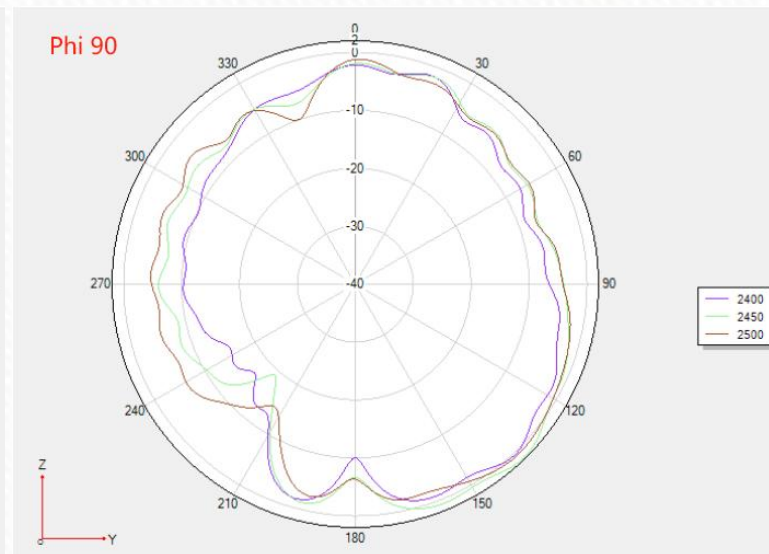
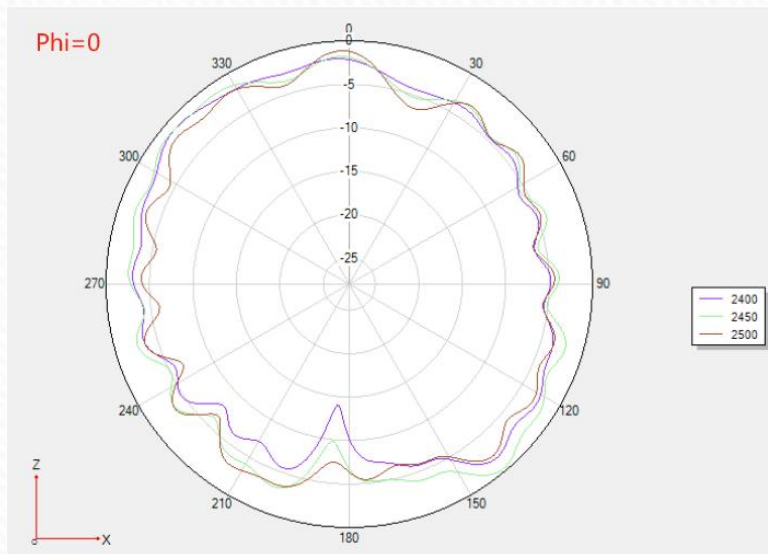
S11-VSWR:



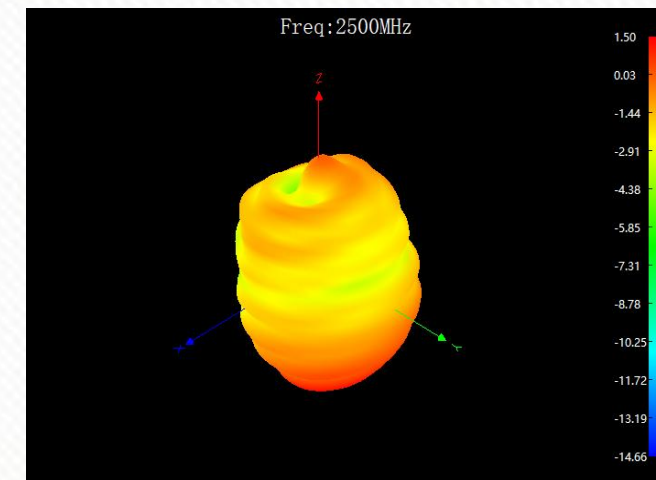
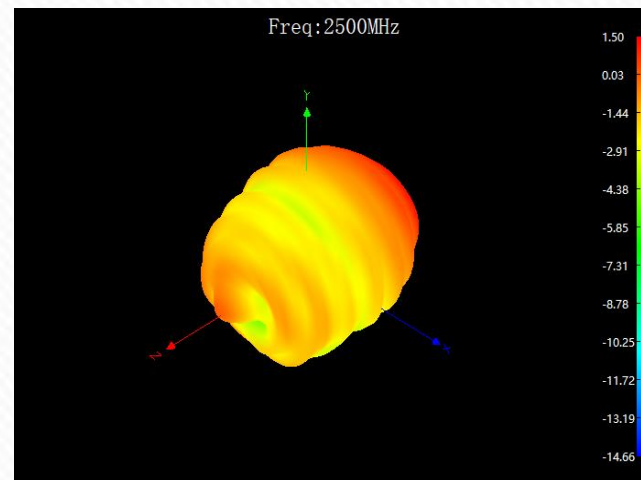
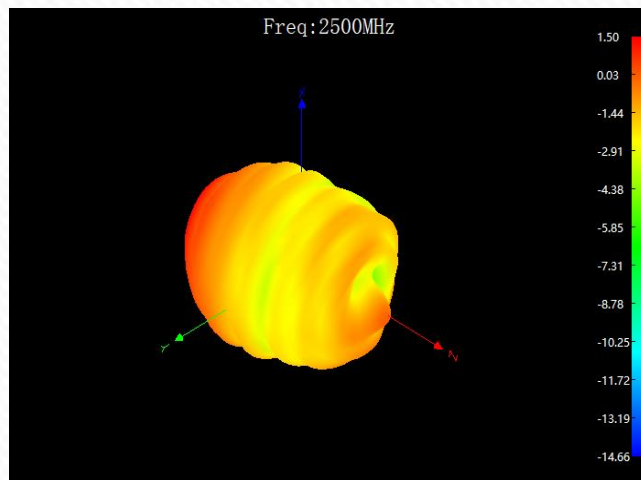
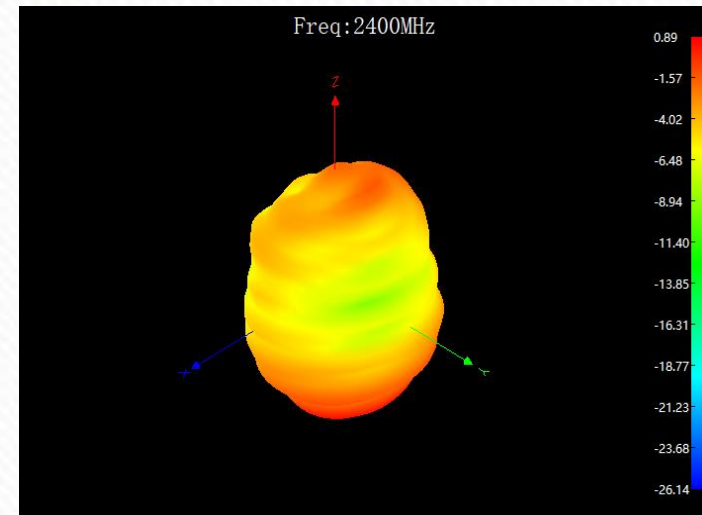
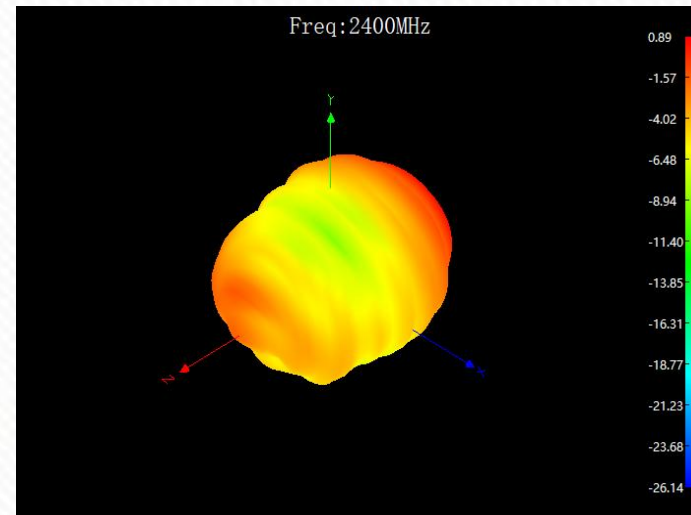
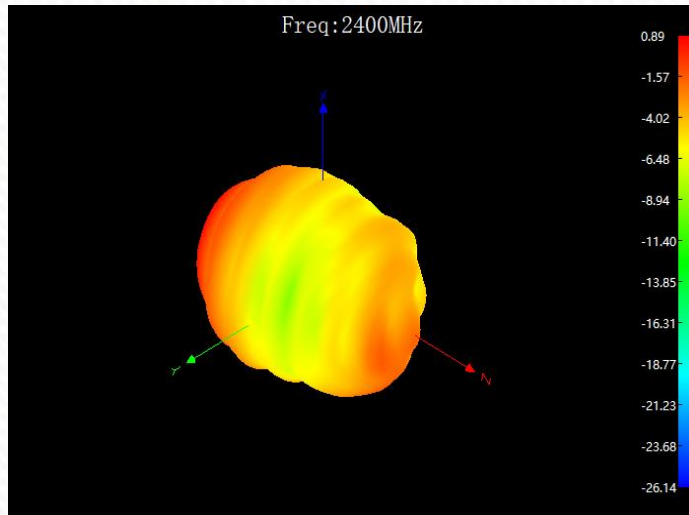
Passive test data:

Frequency/Mhz	Efficiency / dB	Efficiency / %	MaxGain/dBi
2400	-3.36	46.13	0.89
2410	-3.11	48.87	1.58
2420	-3.61	43.55	0.64
2430	-3.28	46.99	1.51
2440	-2.97	50.47	1.63
2450	-2.43	57.15	2.55
2460	-2.48	56.49	2.33
2470	-2.59	55.08	2.39
2480	-2.61	54.83	2.15
2490	-2.87	51.64	2.02
2500	-3.25	47.32	1.5

Passive test data:



Passive test data:



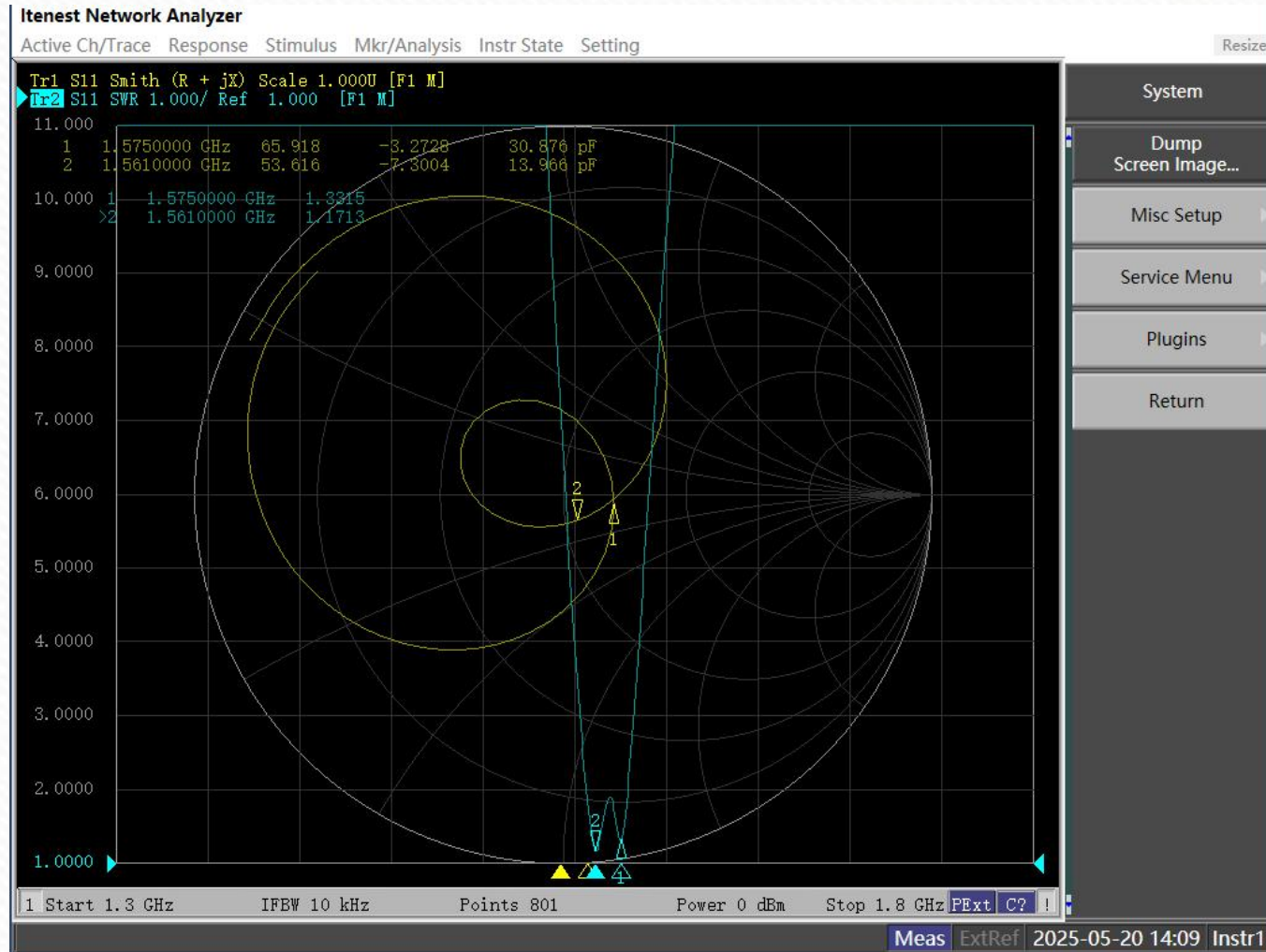
Active test data:

Item	Measurement	Band	Channel	Total
1	TRP	WIFI_B (1M)	1	15.54
2	TRP	WIFI_B (1M)	7	16.43
3	TRP	WIFI_B (1M)	13	15.15
4	TIS(EIRP)	WIFI_B (11M)	13	-81.43
5	TRP	WIFI_G (6M)	1	14.18
6	TRP	WIFI_G (6M)	7	14.05
7	TRP	WIFI_G (6M)	13	14.87
8	TIS(EIRP)	WIFI_G (54M)	13	-66.71
9	TRP	WIFI_N_ISM (6.5M)	1	13.39
10	TRP	WIFI_N_ISM (6.5M)	7	12.29
11	TRP	WIFI_N_ISM (6.5M)	13	14.69
12	TIS(EIRP)	WIFI_N_ISM (65M)	13	-65.6

Active test data:

Item	Measurement	Band	Channel	Total
1	TRP	WIFI_B (1M)	1	13.57
2	TRP	WIFI_B (1M)	7	15.25
3	TRP	WIFI_B (1M)	13	14.01
4	TIS(EIRP)	WIFI_B (11M)	13	-79.39
5	TRP	WIFI_G (6M)	1	12.97
6	TRP	WIFI_G (6M)	7	13.03
7	TRP	WIFI_G (6M)	13	13.99
8	TIS(EIRP)	WIFI_G (54M)	13	-64.3
9	TRP	WIFI_N_ISM (6.5M)	1	12.06
10	TRP	WIFI_N_ISM (6.5M)	7	13.71
11	TRP	WIFI_N_ISM (6.5M)	13	14.24
12	TIS(EIRP)	WIFI_N_ISM (65M)	13	-63.81

S11-VSWR:



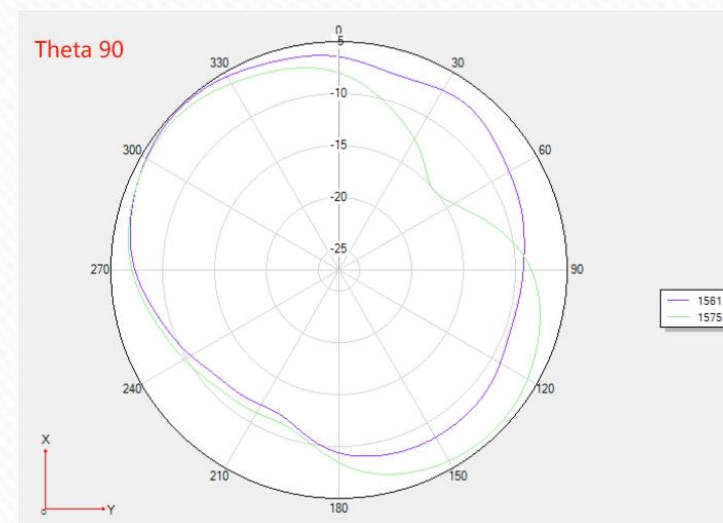
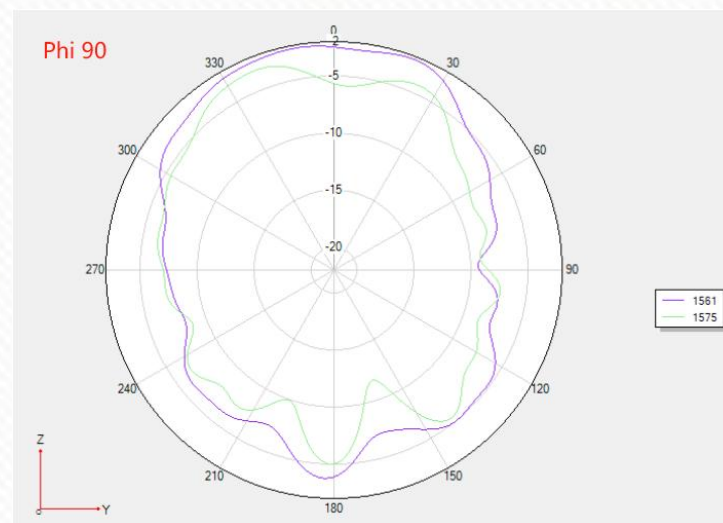
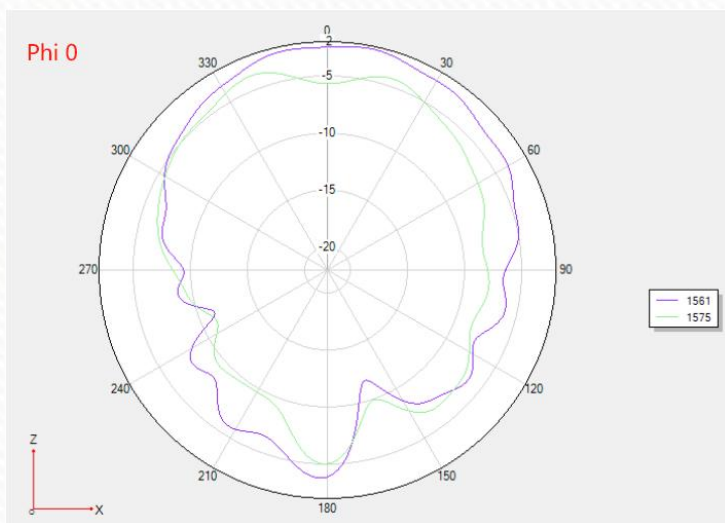
G 1/B 1 antenna data

Passive test data (182 ceramic antenna):

Frequency/Mhz	Efficiency / dB	Efficiency / %
1550	-7.98	15.92
1551	-7.53	17.66
1552	-7.09	19.54
1553	-6.68	21.48
1554	-6.29	23.5
1555	-5.93	25.53
1556	-5.58	27.67
1557	-5.23	29.99
1558	-4.9	32.36
1559	-4.63	34.43
1560	-4.46	35.81
1561	-4.49	35.56
1562	-4.69	33.96
1563	-5.06	31.19
1564	-5.57	27.73
1565	-6.12	24.43
1566	-6.63	21.73
1567	-7.01	19.91
1568	-7.21	19.01
1569	-7.22	18.97
1570	-7.06	19.68
1571	-6.78	20.99
1572	-6.44	22.7
1573	-6.13	24.38
1574	-5.88	25.82
1575	-5.72	26.79
1576	-5.64	27.29
1577	-5.63	27.35
1578	-5.71	26.85
1579	-5.89	25.76
1580	-6.17	24.15

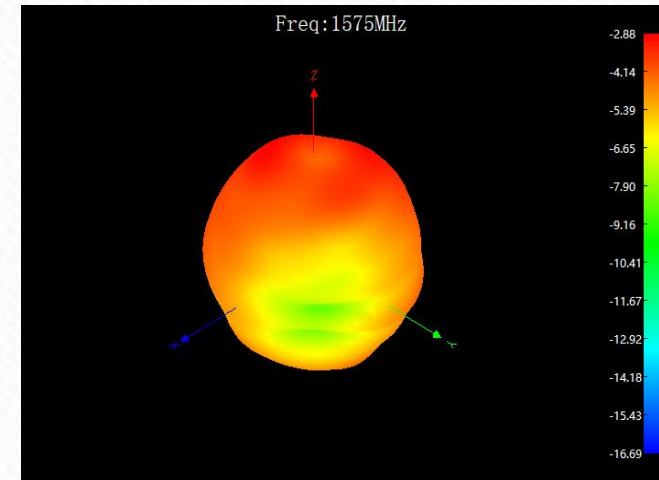
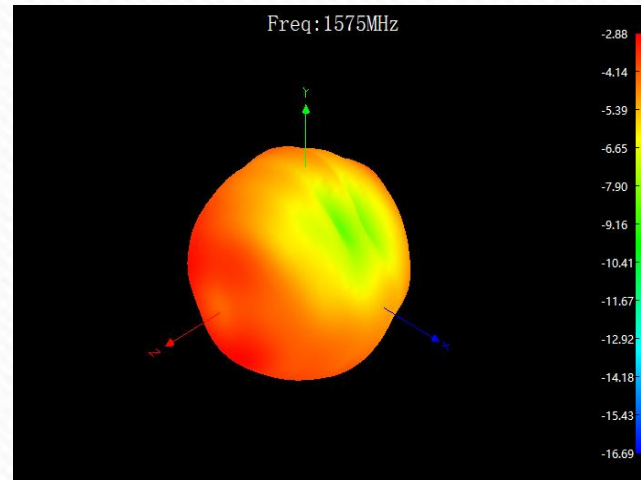
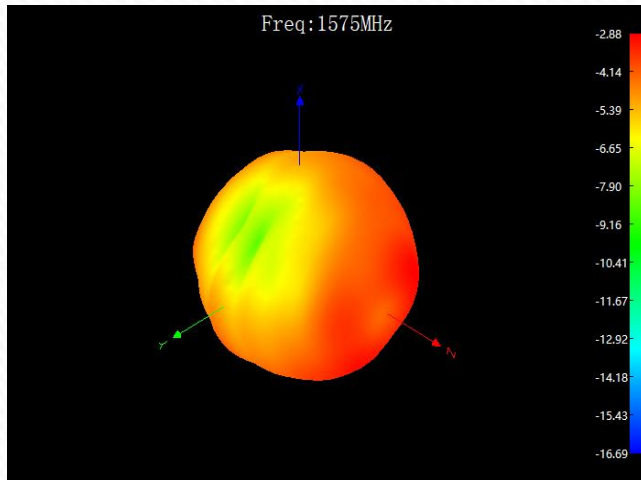
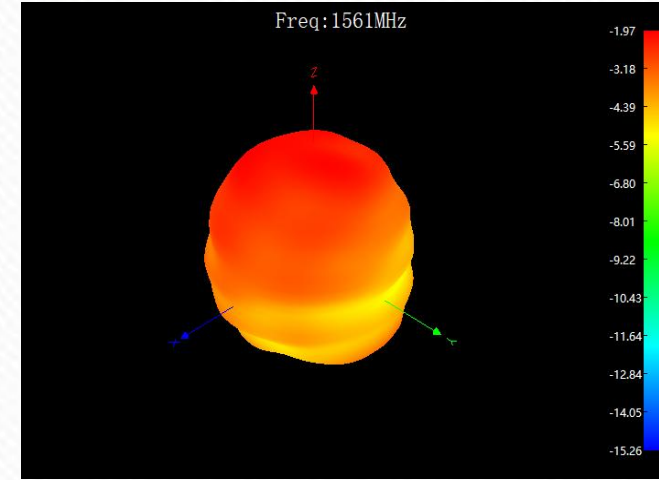
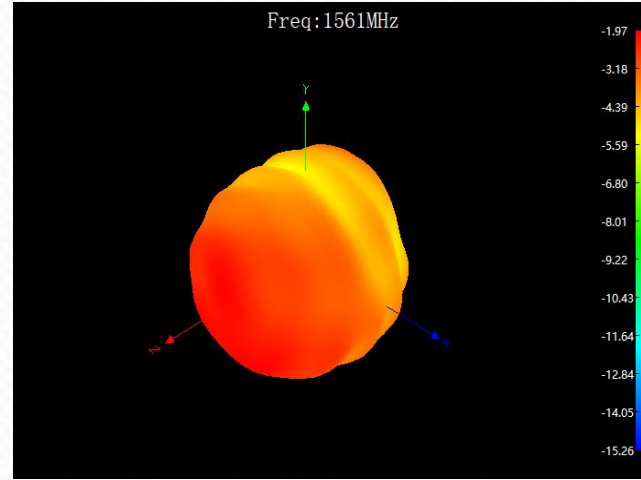
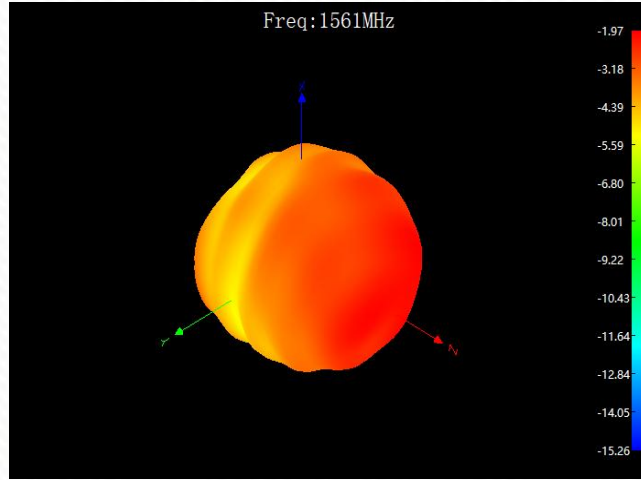
G 1/B 1 antenna data

Passive test data (182 ceramic antenna):



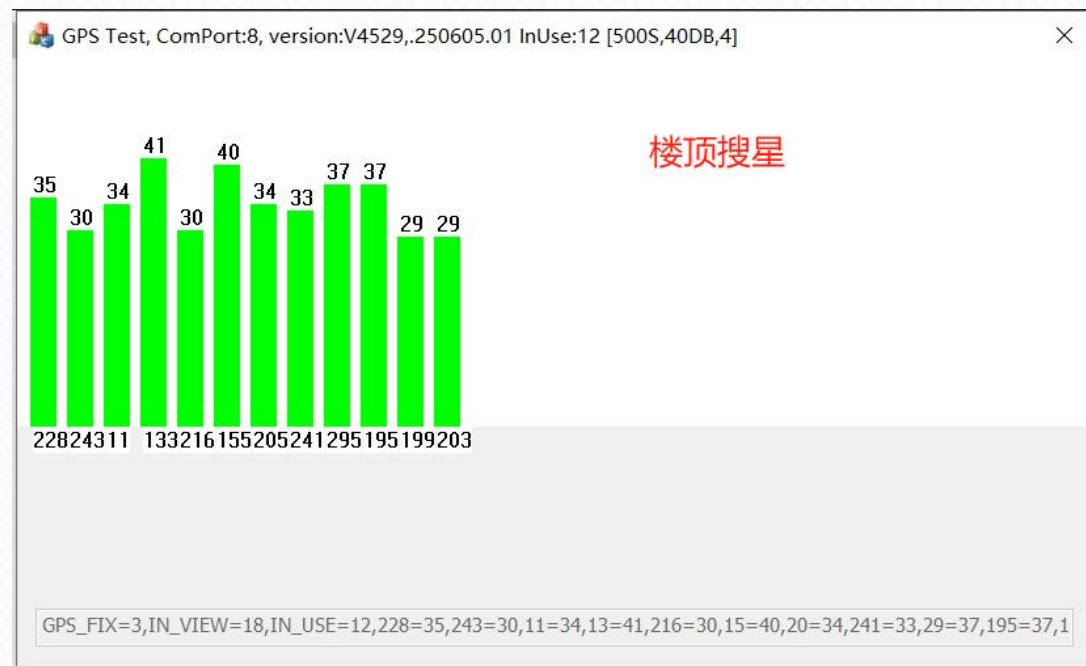
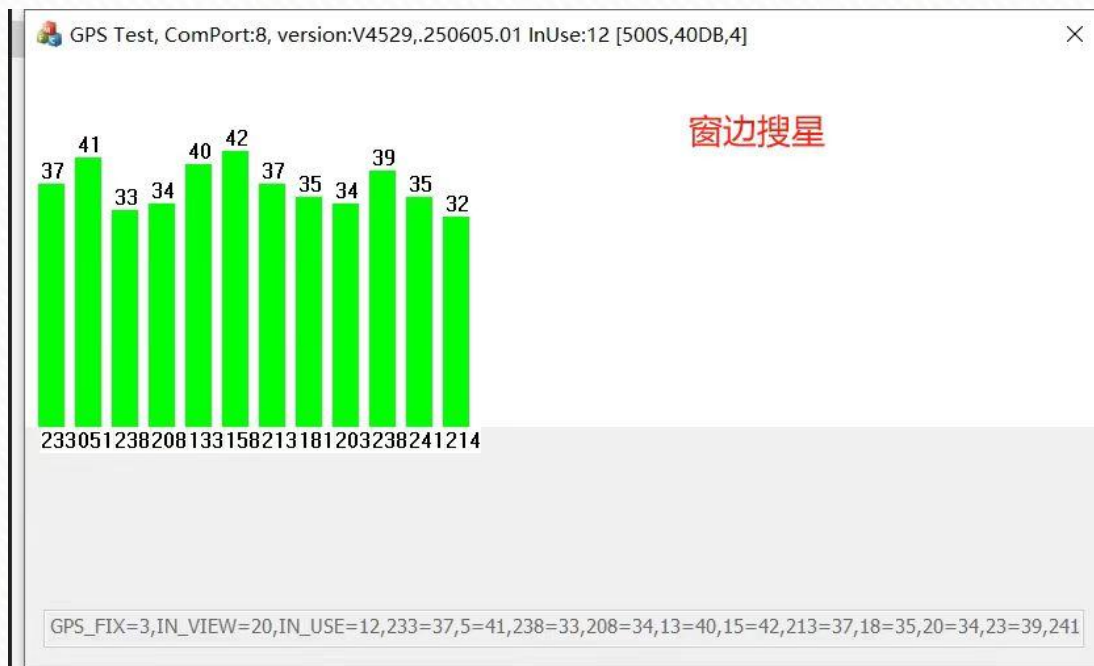
G 1/B 1 antenna data

Passive test data (182 ceramic antenna):



G 1/B 1 antenna data

The measured data (182 ceramic antenna):



1. Antenna version: Sample
2. Match changes: None
3. Environmental treatment: No change
4. Summary:
5. Next steps:

