



Antenna Testing Report

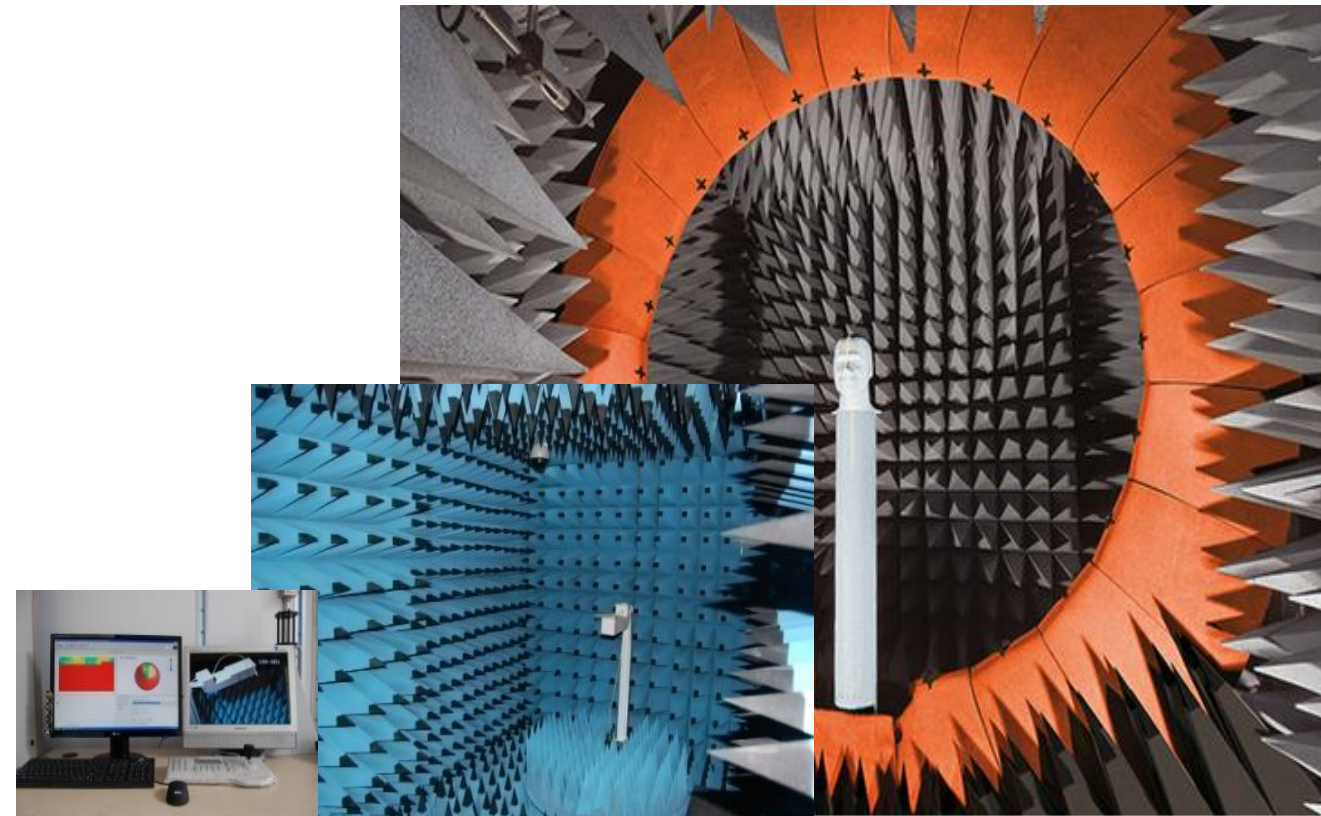
Model Name: FT08

April 9, 2026

Table of Contents

Project Information

- 1.Report version and Remarks
- 2.Company Introduction and Testing Environment
- 3.Product Image and Sunnyway Antenna
- 4.Testing data



Project Information



Sample status		Debugging machine		Product type			
Antenna overview							
	Frequency		Structural style	Type	Location	Matching modification	Antenna version
Antenna	WIFI	2.4G+5.8G+6E	FPC			no	sample
Environment adjustment				NO			

Report Version and Remarks



Version	Report date	Remark
A0	2026.04.09	Passive test data
A1	2026.04.09	Active test data
A2		
A3		
A4		
A5		
A6		
A7		
A8		
A9		
A10		
A11		

Company Profile and Test Environment

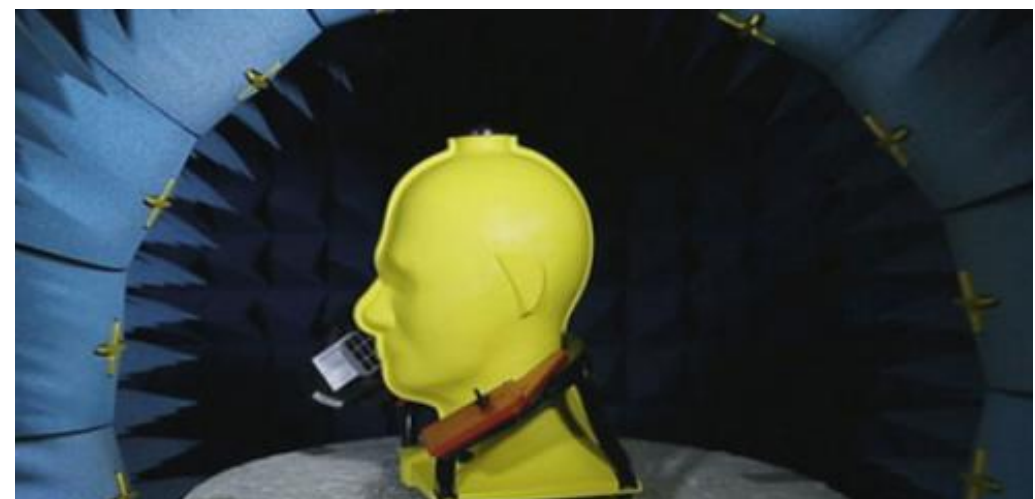
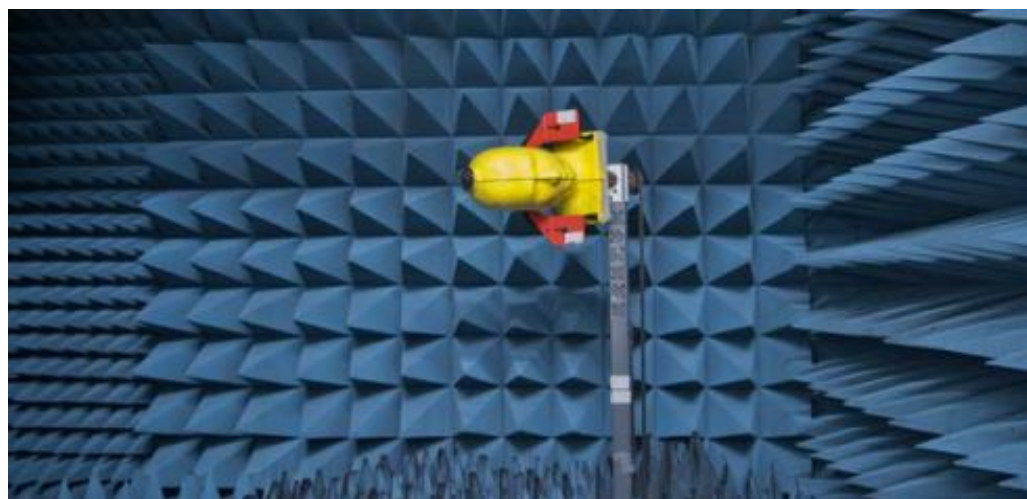
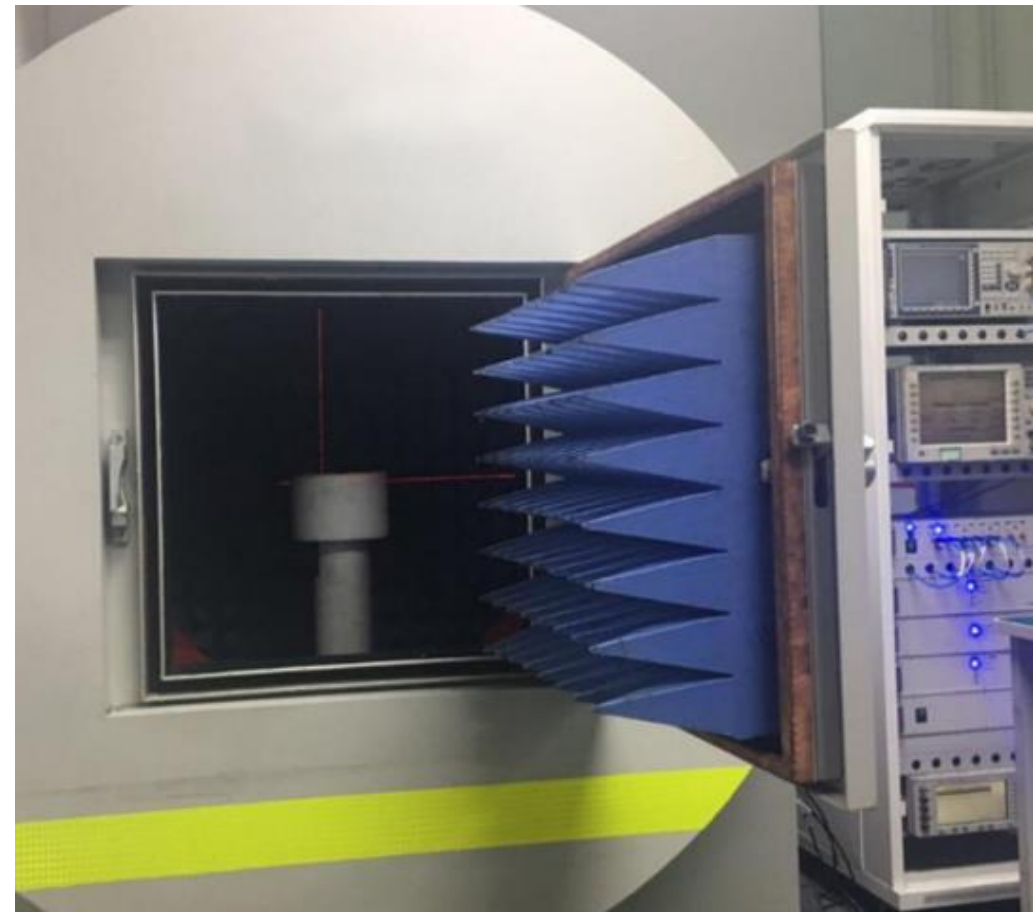
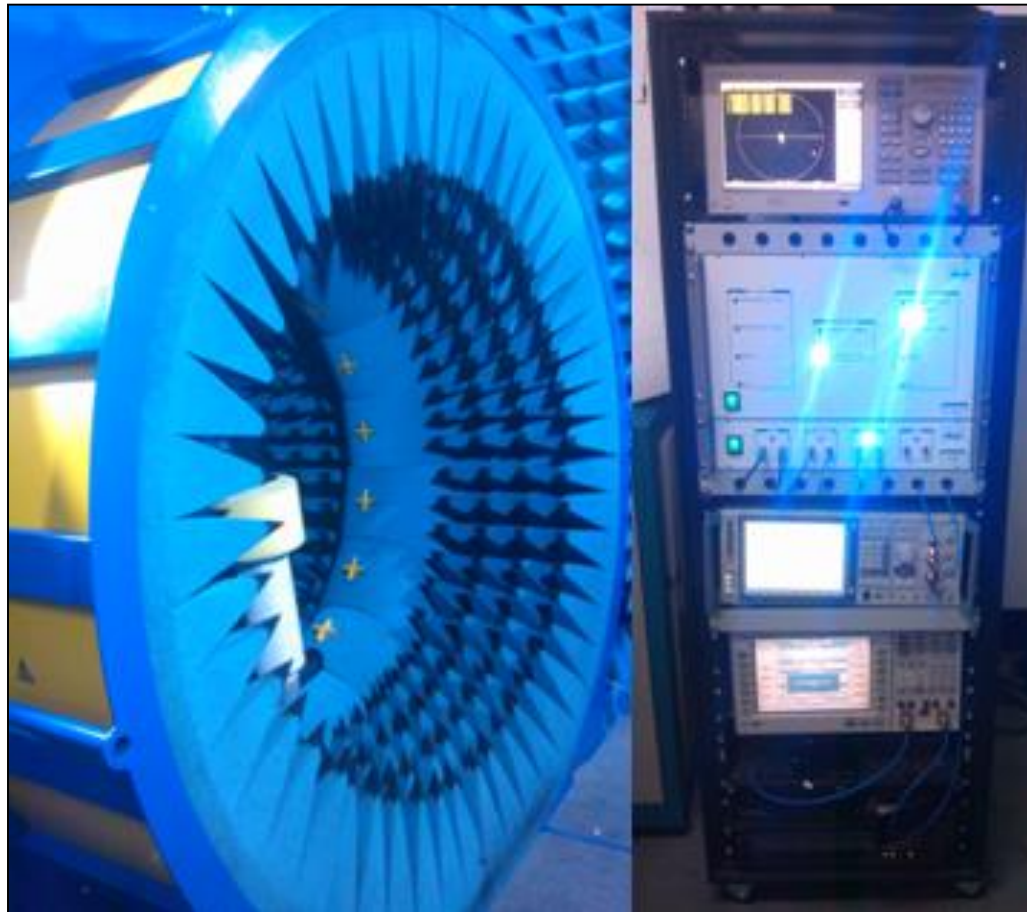


Sunnyway Technology (China) Co., Ltd. (hereafter referred to as Sunnyway) was founded in 2009. The brand operation center is located in Shanghai (Shanghai Shouyuan Communication Technology Co., Ltd.), Shanghai, Shenzhen, Taiwan all have R&D bases and **8 OTA Chambers** which are dedicated to provide antenna's R&D, design, production, and sales services for Internet of Things/cell phones to domestic and foreign users. Sunnyway is gradually becoming the first brand of the Internet of Things antenna industry.

Sunnyway Technology R&D and sales products are mainly used in consumer electronics products such as smart phones/tablets/notebooks/smart wear, etc., and are deeply involved in the field of Internet of Things products, and are gradually expanding to smart cities (smart water meters/smart covers, etc.). Smart traffic (smart car lock/smart parking/4G cloud rearview mirror, etc.), smart home (smart door lock/smart lamp), security protection (smart monitor/smart alarm), smart medical, stuff tracking, industrial control (equipment monitoring, production Monitoring, etc.,) help the intelligent development of the Internet of Things.

Sunnyway Technology, a senior IoT antenna expert nearby you.

Sunnway has a number of OTA chambers, the frequency range covers 400MHz~8.5GHz, can provide complete machine OTA test (TRP/TIS), WIFI active test (supports 11b/11g/11n mode test items), Bluetooth/GPS active test items, can provide antenna gain and efficiency, 2D pattern / Apple map analysis and upper and lower hemisphere efficiency values, mutual interference correlation coefficient test items.

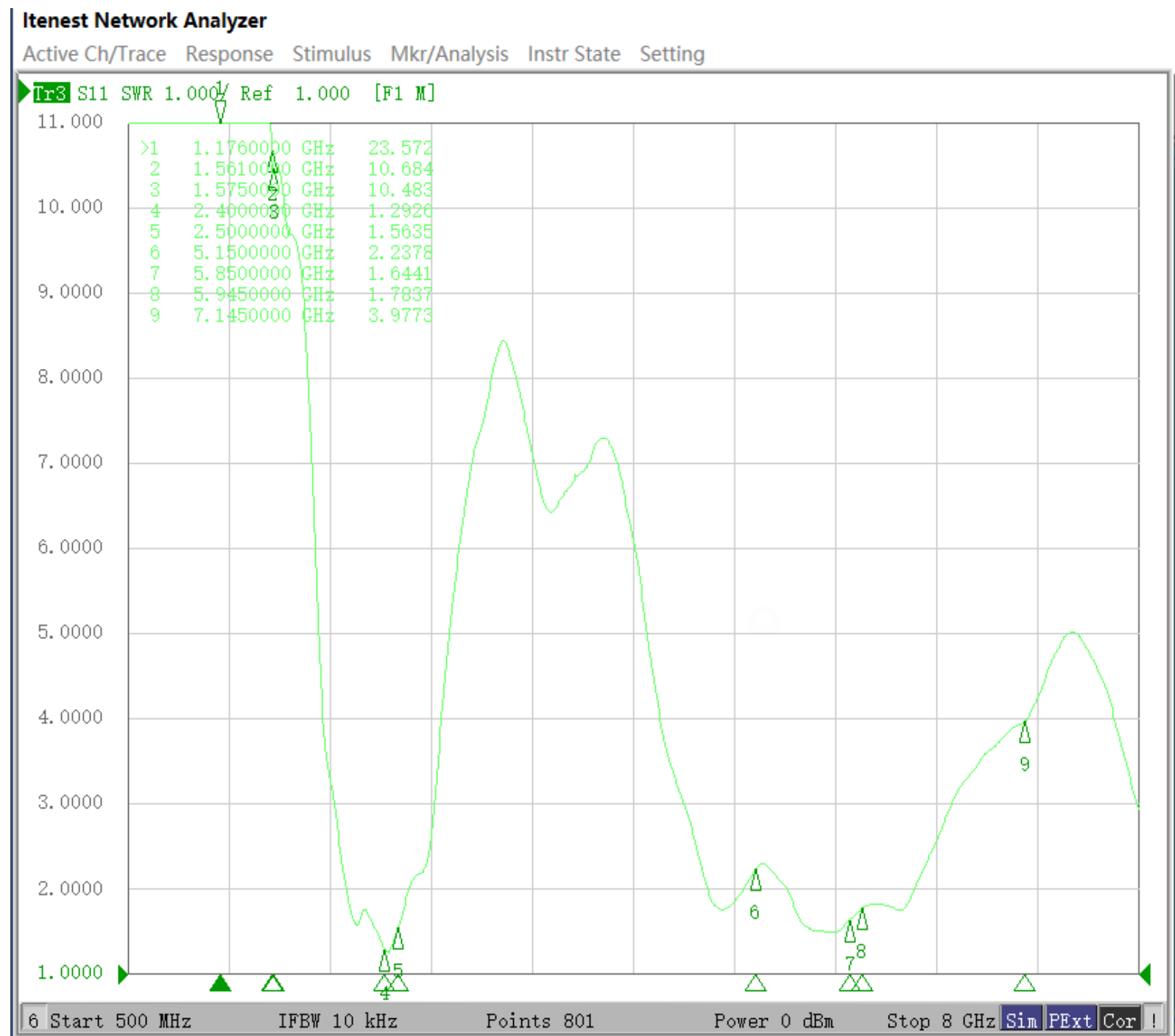


WiFi antenna isolation



WIFI CH0 S11 and Passive efficiency

ANT CH0

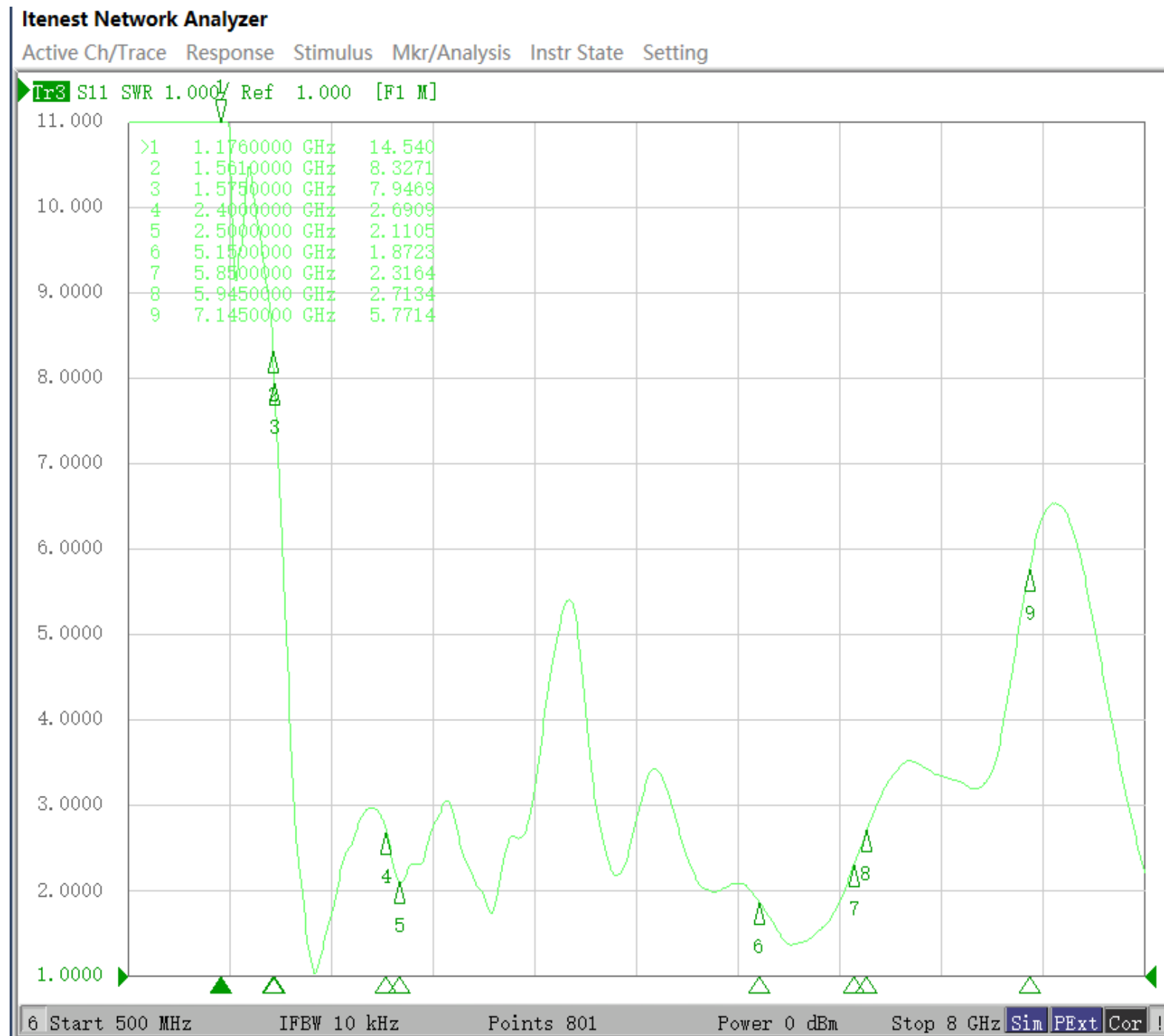


WIFI CH0 S11 and Passive efficiency

Freq	Effi	Effi	MaxGain	Freq	Effi	Effi	MaxGain
(MHz)	(dB)	(%)	dBi	(MHz)	(dB)	(%)	dBi
2400	-3.51	44.57	0.12	5900	-3.29	46.88	2.55
2410	-3.41	45.65	-0.94	5950	-3.51	44.57	2.69
2420	-3.62	43.45	0.08	6000	-4.19	38.11	2.32
2430	-3.37	46.02	-0.25	6050	-3.98	39.99	2.42
2440	-3.46	45.05	1.05	6100	-4.18	38.19	2.24
2450	-3.49	44.78	0.45	6150	-4.7	33.88	1.5
2460	-3.61	43.55	0.47	6200	-4.45	35.89	1.87
2470	-3.52	44.5	0.03	6250	-5.04	31.33	1.18
2480	-3.4	45.67	0.45	6300	-5.33	29.31	0.55
2490	-3.43	45.36	-0.28	6350	-5.28	29.65	0.93
2500	-3.63	43.34	0.58	6400	-5.43	28.64	0.44
5150	-3.78	41.88	2.55	6450	-5.67	27.1	-0.25
5200	-3.44	45.29	2.72	6500	-5.7	26.92	-0.01
5250	-3.93	40.46	2.07	6550	-5.71	26.85	-0.25
5300	-3.87	41.02	2.13	6600	-5.73	26.73	-0.28
5350	-3.33	46.45	2.21	6650	-5.48	28.31	0.37
5400	-3.72	42.46	2.21	6700	-5.48	28.31	0.79
5450	-3.65	43.15	2.16	6750	-5.27	29.72	0.98
5500	-2.61	54.83	2.49	6800	-5.11	30.83	1.18
5550	-2.9	51.29	2.11	6850	-4.8	33.11	1.66
5600	-2.57	55.34	2.77	6900	-3.86	41.11	2.29
5650	-2.69	53.83	2.65	6950	-4.05	39.36	2.52
5700	-3.08	49.2	2.48	7000	-4.09	38.99	2.02
5750	-3.04	49.66	2.45	7050	-3.95	40.27	2.92
5800	-2.97	50.47	2.27	7100	-4.06	39.26	2.55
5850	-3.42	45.5	2.75	7150	-7.28	18.71	0.09

WIFI CH0/CH1 S11 and Passive efficiency

ANT CH1



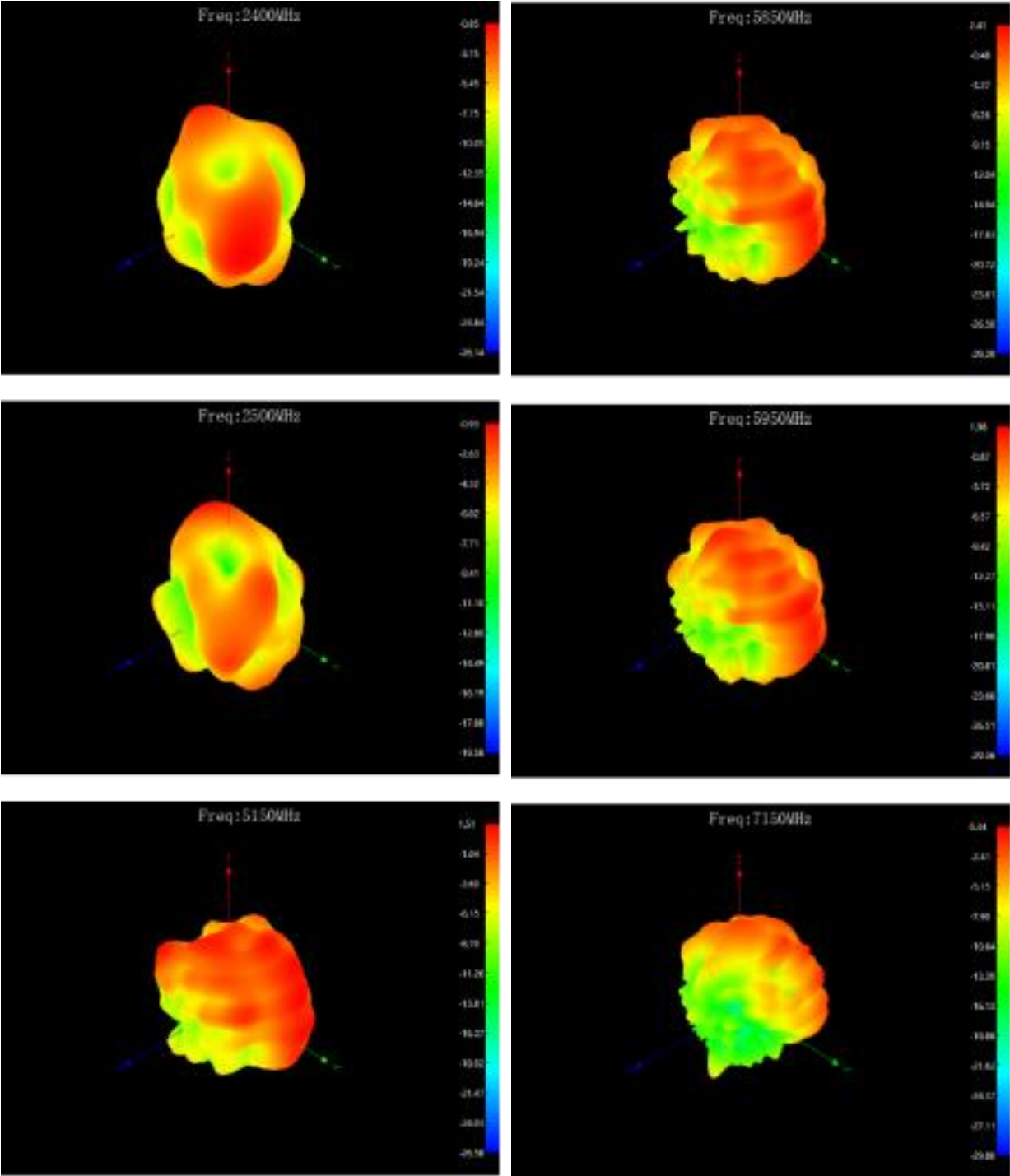
WIFI CH1 S11 and Passive efficiency

ANT CH1

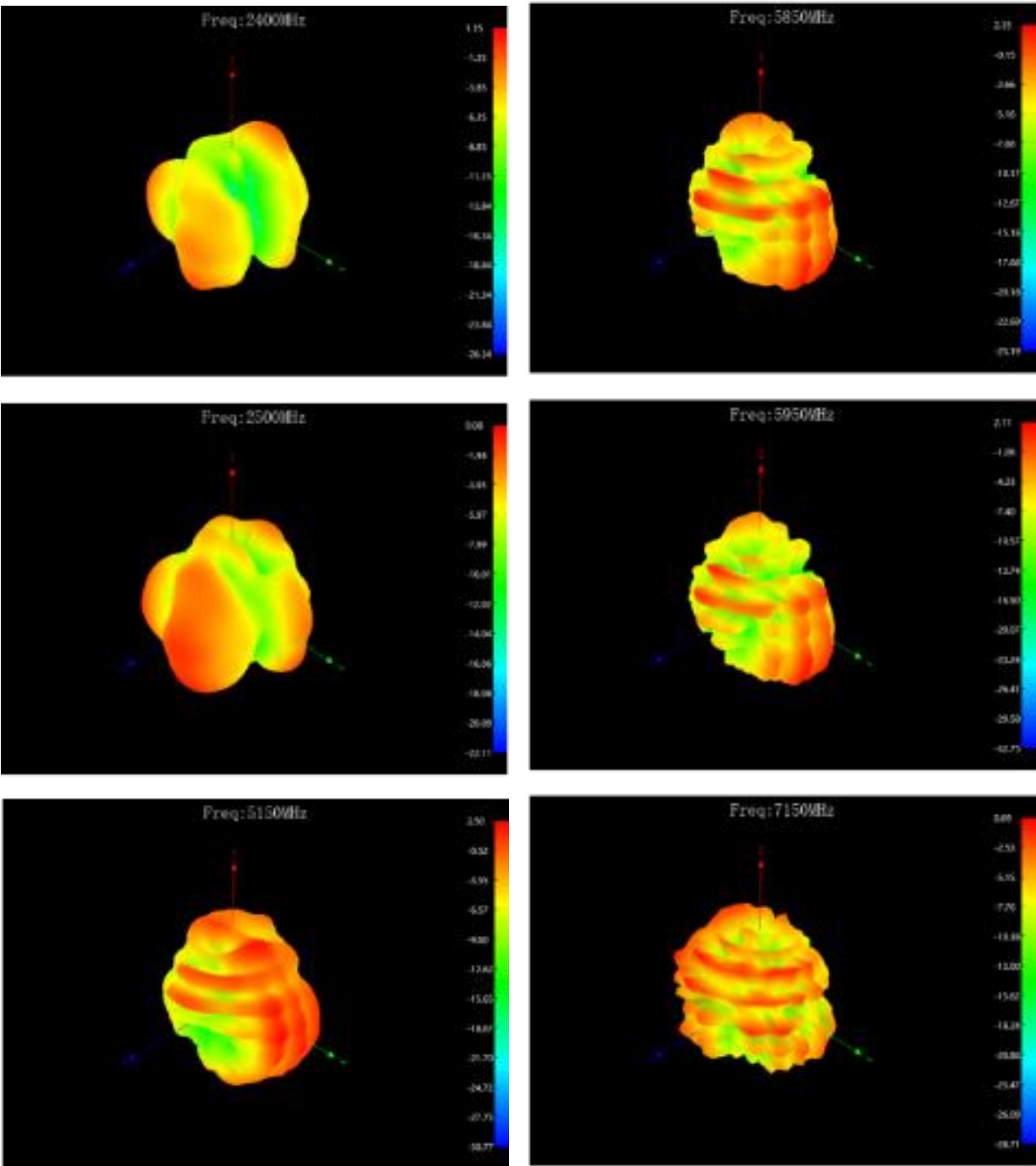
Freq	Effi	Effi	MaxGain	Freq	Effi	Effi	MaxGain
(MHz)	(dB)	(%)	dBi	(MHz)	(dB)	(%)	dBi
2400	-4.18	38.19	-1.51	5900	-2.43	57.15	2.58
2410	-4.48	35.65	-1.65	5950	-2.03	62.66	2.47
2420	-4.11	38.82	-1.35	6000	-2.76	52.97	2.85
2430	-4.39	36.39	-1.27	6050	-3.21	47.75	2.95
2440	-3.97	40.09	-0.95	6100	-3.25	47.32	2.93
2450	-4.21	37.93	-0.51	6150	-3.13	48.64	2.75
2460	-3.85	41.21	-0.25	6200	-2.96	50.58	2.95
2470	-4.02	39.63	-0.16	6250	-2.82	52.24	2.94
2480	-3.73	42.36	-0.12	6300	-3.09	49.09	2.85
2490	-3.87	41.02	0.14	6350	-2.78	52.72	2.78
2500	-3.51	44.57	0.66	6400	-2.84	52	2.88
5150	-3.07	49.32	2.18	6450	-3.02	49.89	2.75
5200	-3.31	46.67	2.65	6500	-3.04	49.66	2.96
5250	-3.21	47.75	2.39	6550	-2.94	50.82	2.75
5300	-3.44	45.29	2.37	6600	-3.09	49.09	2.83
5350	-3.29	46.88	2.22	6650	-3.55	44.16	2.45
5400	-3.17	48.19	2.43	6700	-3.65	43.15	2.65
5450	-2.8	52.48	2.32	6750	-4.06	39.26	2.75
5500	-2.97	50.47	2.6	6800	-4.21	37.93	2.92
5550	-2.78	52.72	2.61	6850	-4.67	34.12	2.03
5600	-2.97	50.47	2.95	6900	-5.11	30.83	2.2
5650	-2.71	53.58	2.8	6950	-5.16	30.48	1.7
5700	-2.46	56.75	2.36	7000	-5.46	28.44	1.09
5750	-2.29	59.02	2.92	7050	-5.81	26.24	0.97
5800	-2.29	59.02	2.34	7100	-5.86	25.94	0.83
5850	-2.49	56.36	2.47	7150	-6.14	24.32	1.5

WIFI CH0/CH1 Directional Diagram

ANT CH0



ANT CH1



WiFi Active test data

Band	TRP(dB)	TIS(dB)	SPEC	
WiFi 11b 11M	19.57	-88.09	18	-89
	19.49	-88.4		
	19.51	-87.63		
WiFi 5G 11a 54M	19.54	-91.23	15	-91
	19.71	-91.65		
	19.99	-91.48		

Environmental treatment:



Add conductive foam on the back of the screen to ensure sufficient grounding.



SUNNYWAY

Thank You

