

P010162301-Antenna gain report

1 : Supplied by the antenna manufacturer (data sheet

Coaxial cable antenna-2.4-2.5GHz-2dBi,5.15-5.85-7.12GHz,1dBi , 27.67×8.42mm , 270mm Gray IPEX 1 PCB , 1COAX parcel sponge , SH , XY

for the antenna size,please refer to operation description.

2 : Antenna data from lab tests. (PCB antenna must have a test report) ANT 1and ANT 2

frequency 频率	gain 增益(dBi)	efficiency 效率(dB)	efficiency 效率(%)	frequency 频率	gain 增益(dBi)	efficiency 效率(dB)	efficiency 效率(%)	frequency 频率	gain 增益(dBi)	efficiency 效率(dB)	efficiency 效率(%)
2400	1.07	-3.93	40.48	5100	2.88	-2.19	60.34	5600	2.66	-2.35	58.23
2410	1.22	-3.64	43.29	5150	2.83	-1.88	64.93	5650	2.69	-2.24	59.74
2420	1.28	-3.48	44.91	5200	2.99	-2.29	58.99	5700	2.51	-2.5	56.27
2430	1.1	-3.36	46.12	5250	3.1	-2.14	61.08	5750	2.62	-2.48	56.52
2440	1.04	-3.4	45.68	5300	3.69	-2.15	61	5800	2.84	-2.4	57.58
2450	1.2	-3.22	47.64	5350	3.24	-2.15	60.98	5850	2.65	-2.6	54.93
2460	1.51	-3	50.14	5400	3.03	-2.33	58.46	5900	2.13	-2.88	51.51
2470	1.92	-2.85	51.87	5450	2.46	-2.21	60.12				
2480	2.15	-2.7	53.73	5500	2.32	-2.39	57.69				
2490	2.42	-2.35	58.22	5550	2.56	-2.28	59.16				

frequency 频率(MHz)	gain 增益(dBi)	efficiency 效率(dB)	efficiency 效率(%)	frequency 频率(MHz)	gain 增益(dBi)	efficiency 效率(dB)	efficiency 效率(%)
6000	2.17	-2.58	55.16	6600	3.7	-2.73	53.31
6050	2.27	-3.05	49.59	6650	3.04	-3.28	46.95
6100	2.73	-2.95	50.71	6700	2.67	-3.48	44.85
6150	2.67	-2.59	55.05	6750	1.91	-3.63	43.31
6200	2.99	-2.43	57.14	6800	3.48	-2.89	51.39
6250	2.6	-2.57	55.37	6850	2.34	-3.34	46.39
6300	2.55	-2.89	51.44	6900	2.96	-2.56	55.51
6350	2.85	-2.88	51.46	6950	3.73	-2.57	55.35
6400	2.17	-3.19	47.95	7000	3.28	-2.47	56.58
6450	2.33	-3.34	46.3	7050	1.98	-3.57	43.92
6500	2.46	-3.01	49.95	7100	2.65	-3.51	44.59
6550	2.81	-3.05	49.58	7150	1.7	-3.78	41.9
				7200	2.78	-2.91	51.18

The test report must contain the following:

1 : Test sample photos: please refer to the internal photos.

2 : Test setup Photos:

please refer to the antenna setup photo.

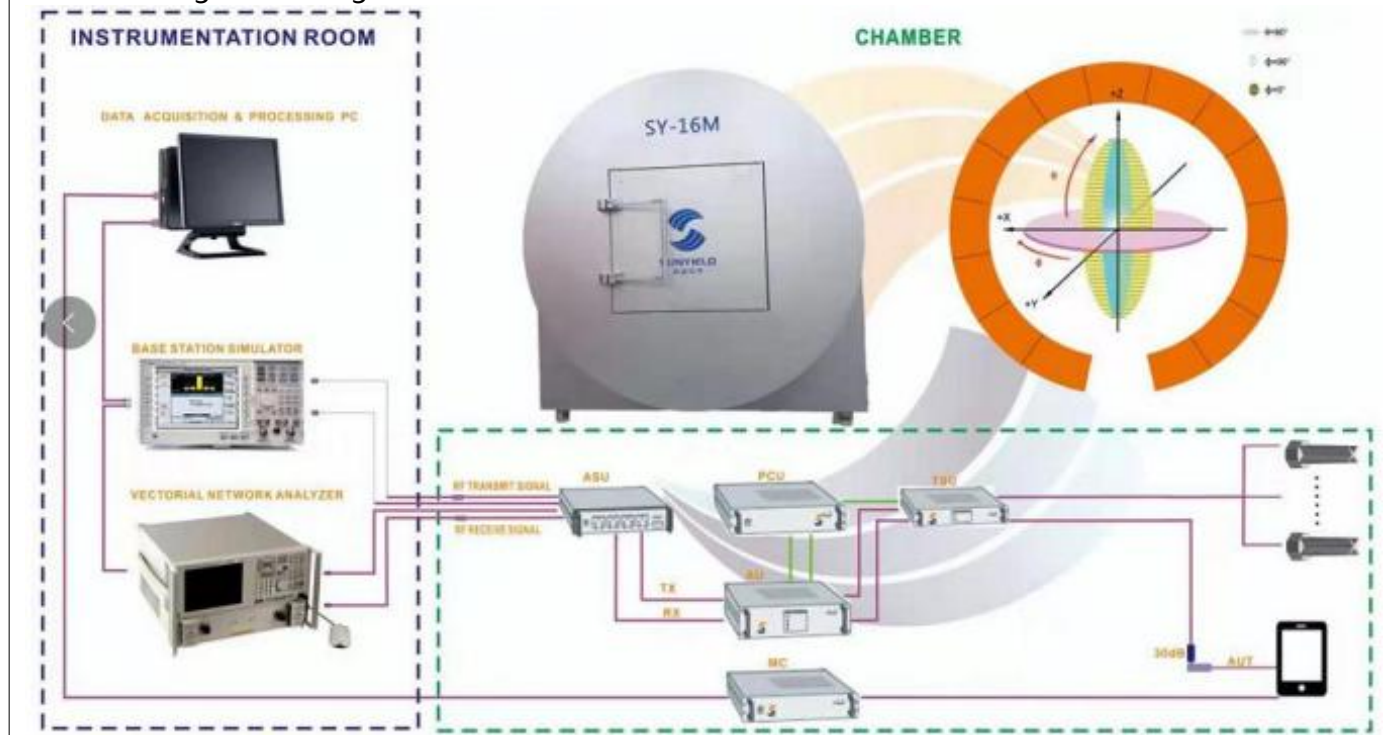
3 : Test procedure

Name	Parameter	Method	Standard no.
Mobile communication antenna	VSWR	Generic specification for antennas used in the mobile communications	GB/T 9410-2008
	Antenna gain		
	Radiation pattern		
Antenna performance	Radiation efficiency	IEEE Standard Test Procedures for Antennas	ANSI/IEEE Std 149-1979

4 : Equipment list

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Network Analyzer	Agilent	E5071B	E5071B-ATO-12478 MY42301894	2023/11/12	2024.11.11
Antenna	SUNYIELD	Standard antenna	SH800-005	2024/1/20	2025/1/19
Chamber	SUNYIELD	191043155HW	SY-16	2024/1/20	2025/1/19

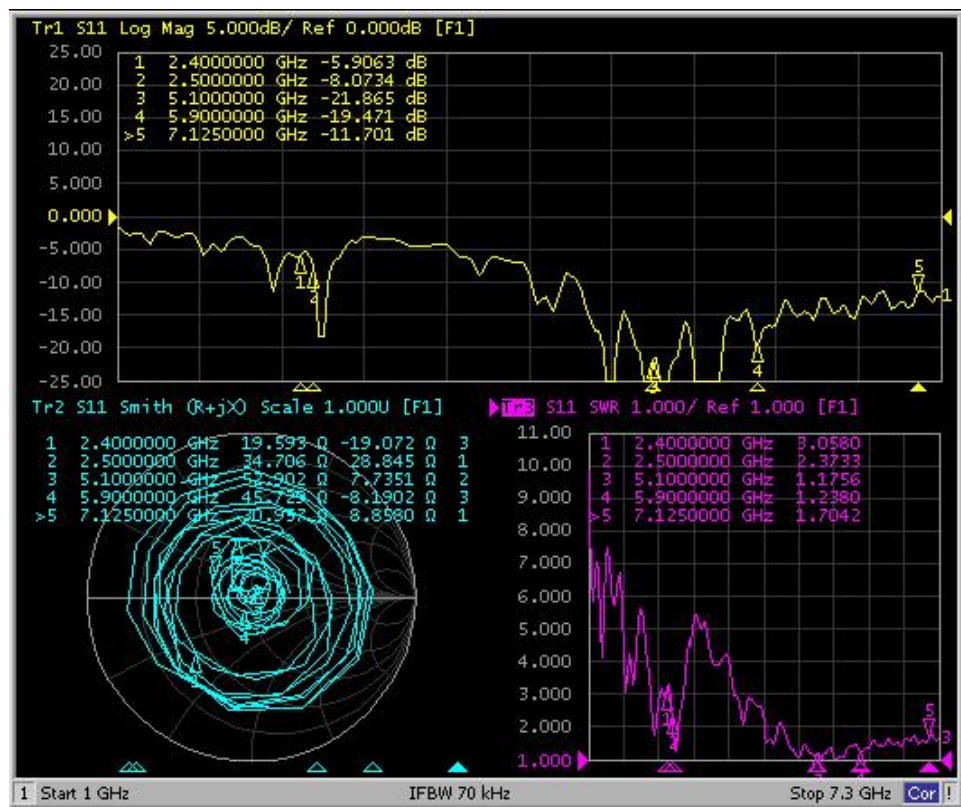
5 : Test configuration diagram

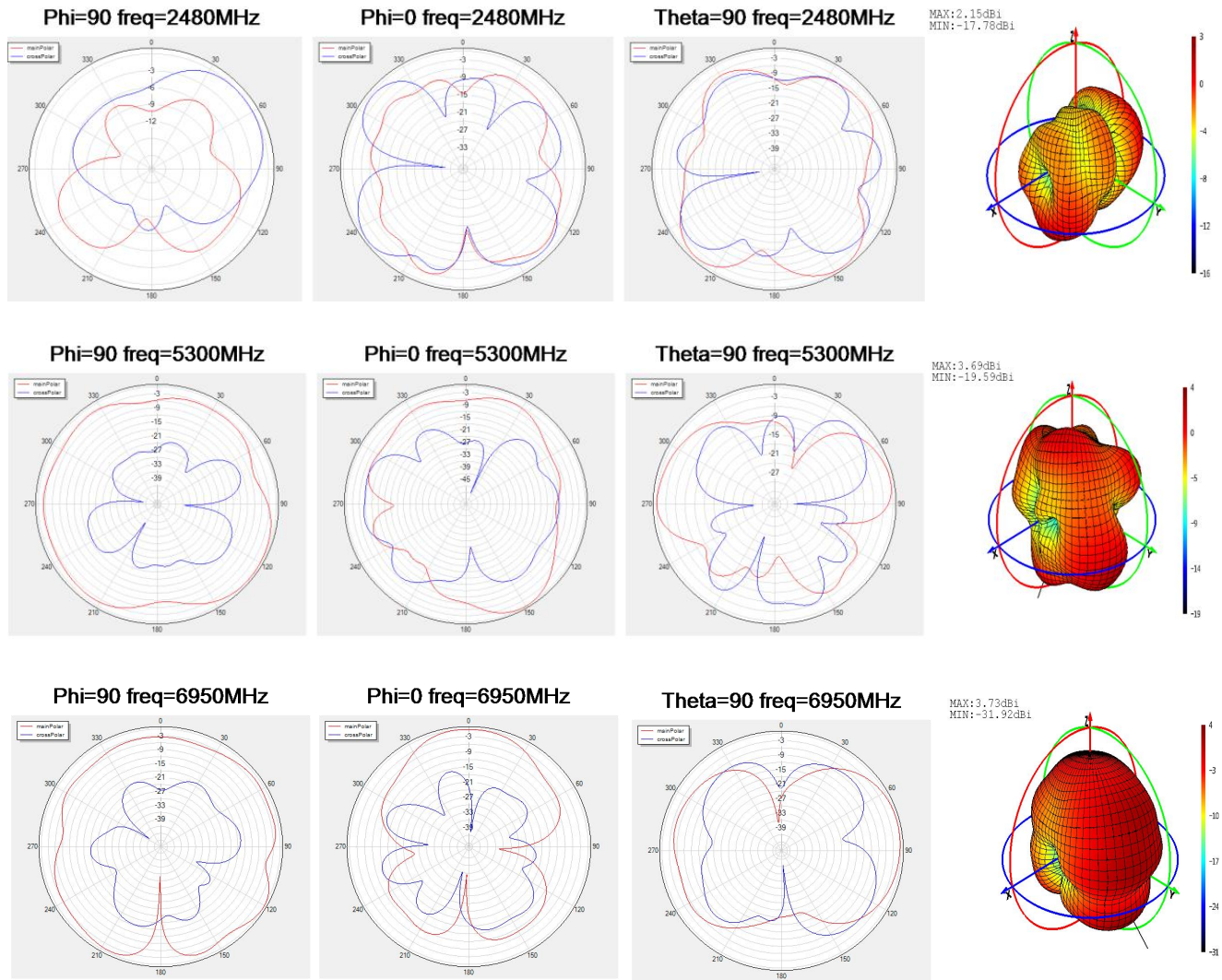


Antenna gain test diagram and data

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7: Test software

Test software being used: Sunyield Passive Measurement system
Software Version: Version 2.8.5

Test by : sam zhang

Test Data: 2024-1-28