



WIFI Antenna Test Report

Product Description : WIFI Antenna

Product Name : WIFI_PM2458YSO_SD270MM

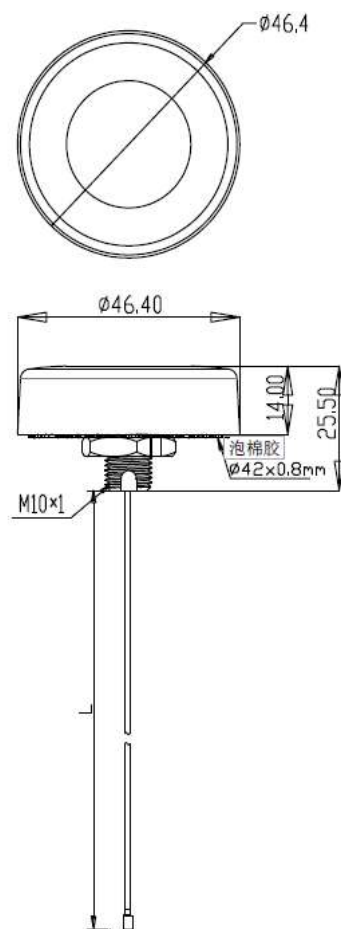
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1, Test content

This report presents the test results for the standing wave ratio, gain, and efficiency of the WIFI antenna.

2, Structure (unit: mm) $L=270\pm 10\text{mm}$



$\langle 20\text{mm}$ tolerance $\pm 0.5\text{mm}$, $\geq 20\text{mm}$ tolerance $\pm 1\text{mm}$

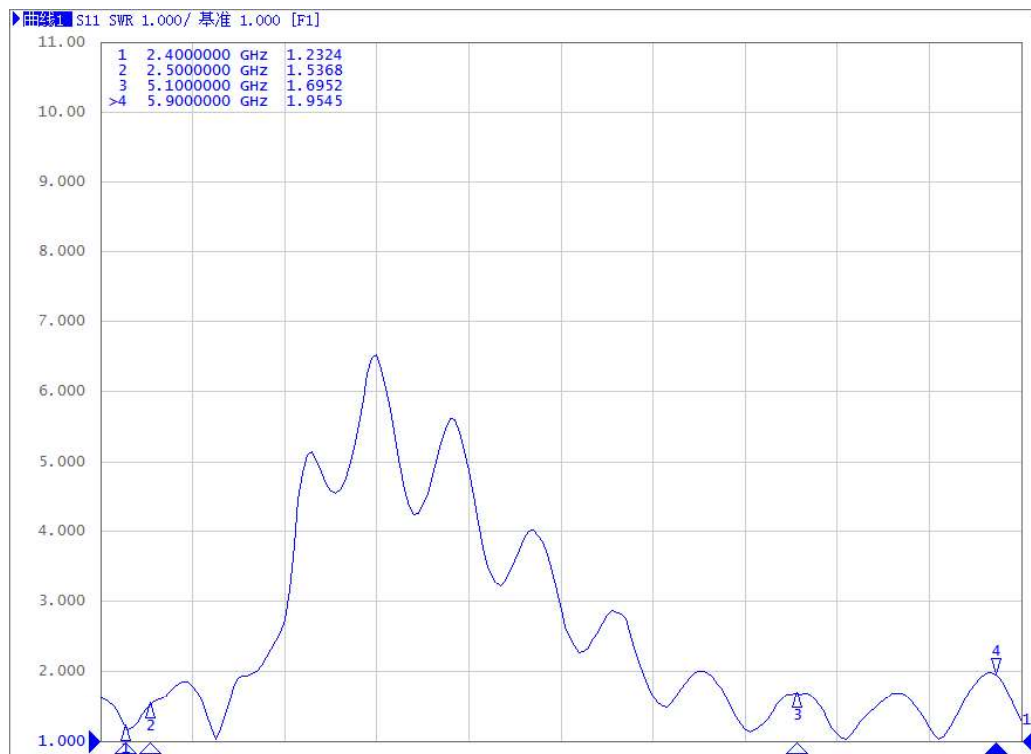
3, Performance Test of WIFI Antenna

Instrument and Equipment:

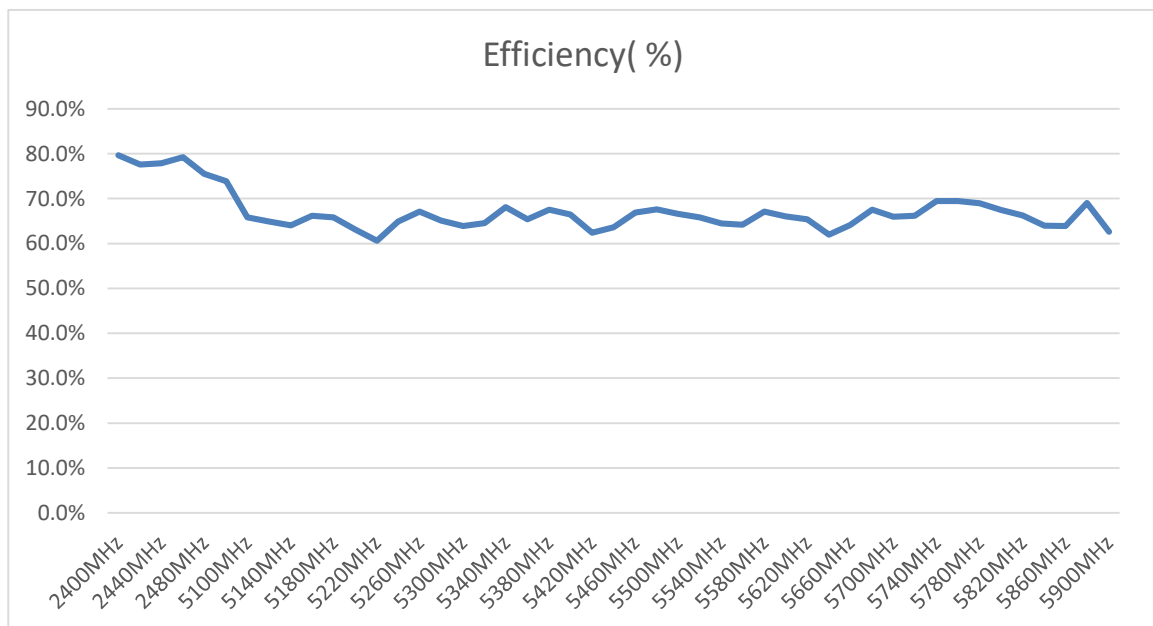
Network Analyzer 5071C,

SATIMO SG24

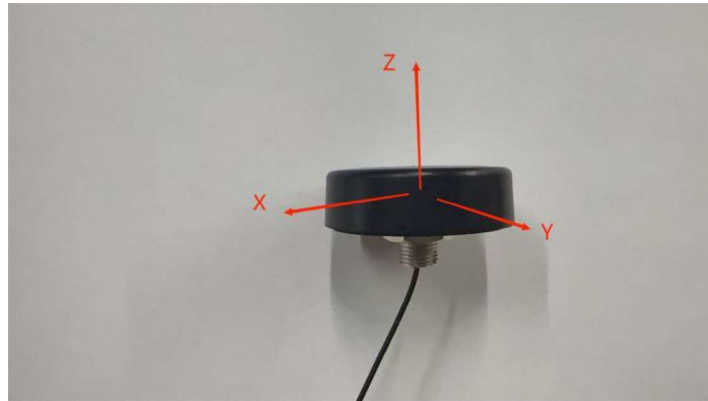
3.1 S11



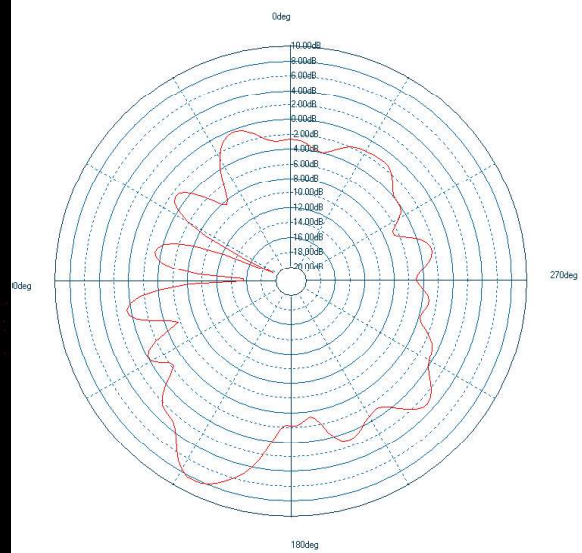
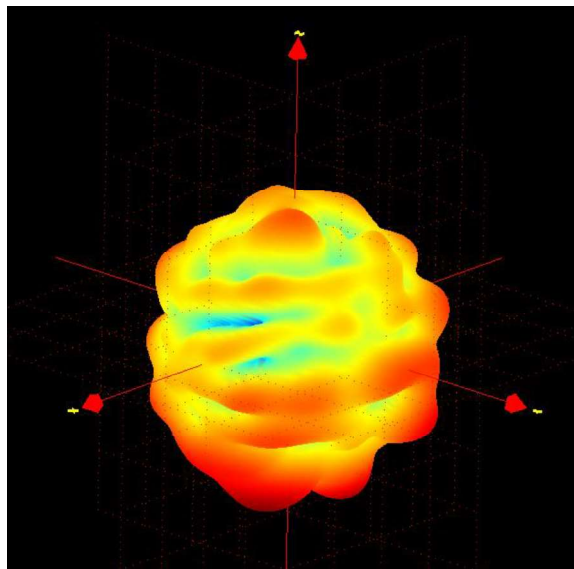
3.2 Efficiency



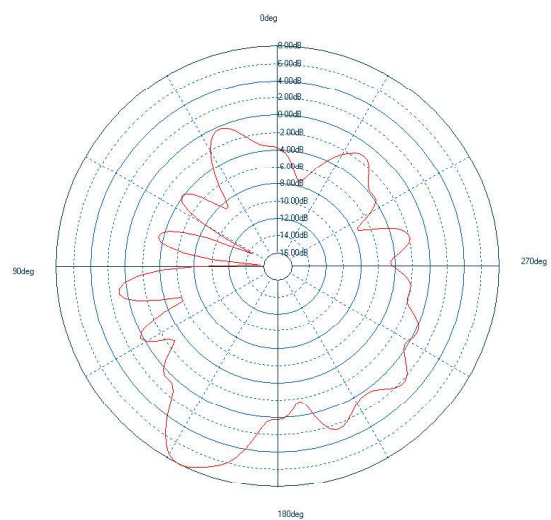
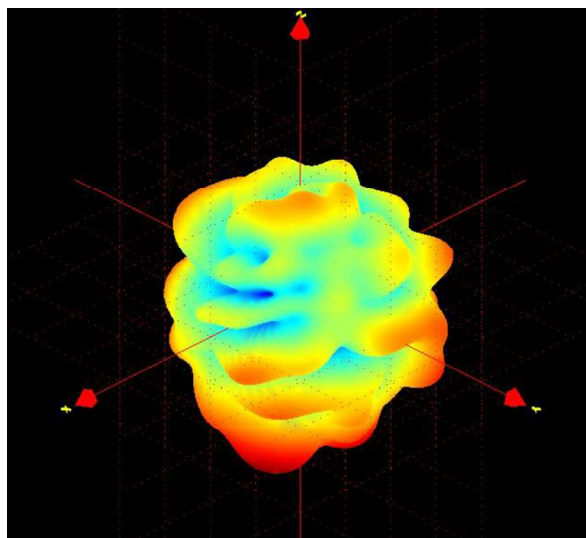
3.3 Pattern



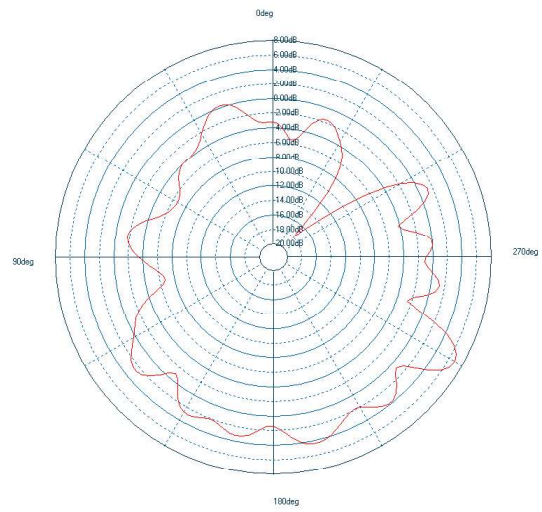
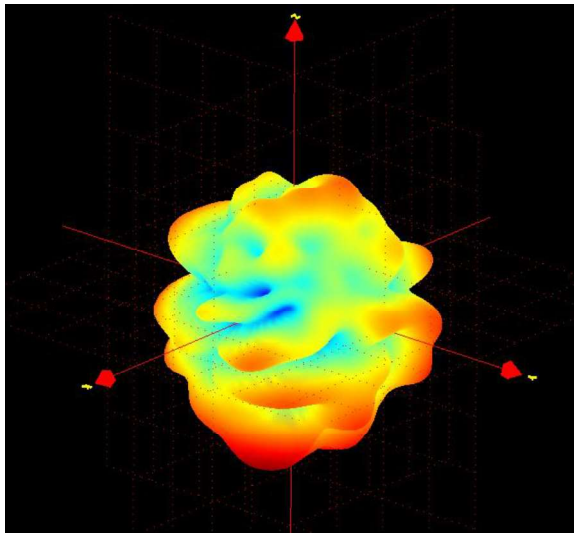
2400MHz



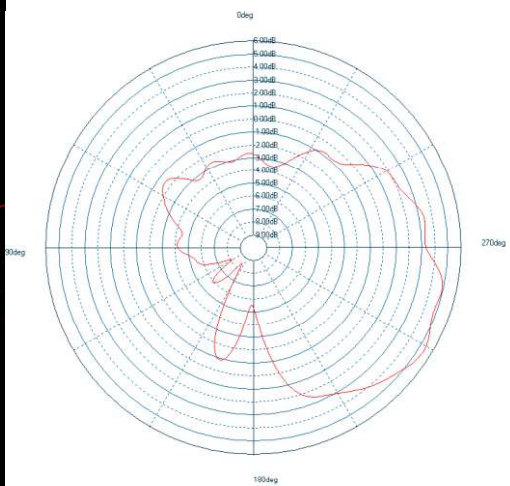
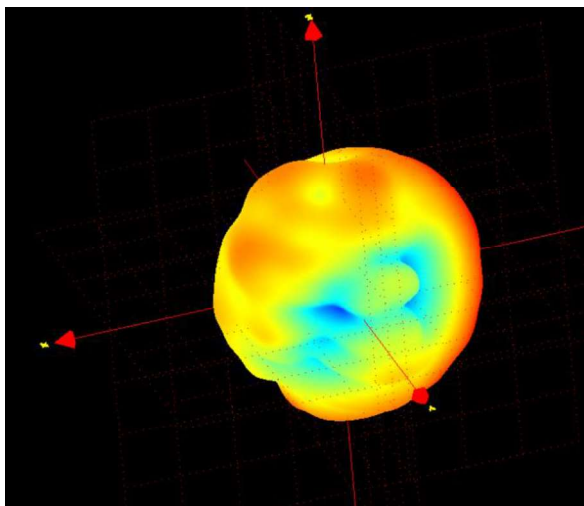
2450MHz



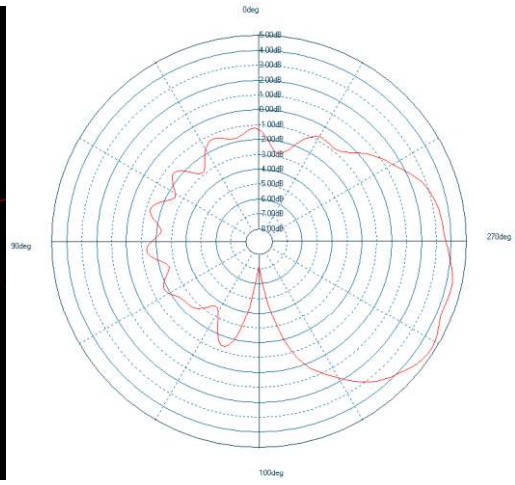
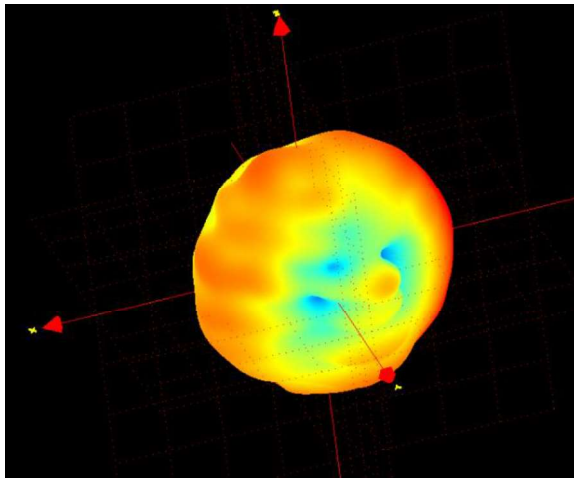
2500MHz



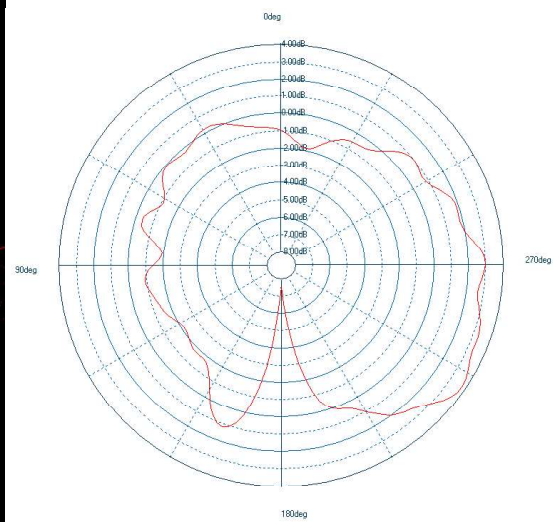
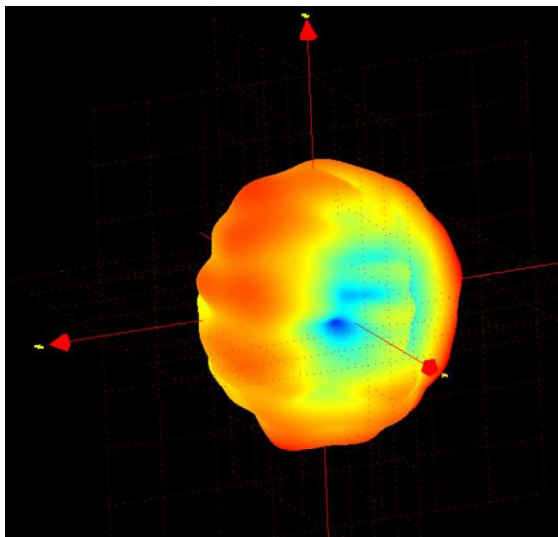
5100MHz



5450MHz



5800MHz



4, Summary of WIFI Antenna Test Results

4.1 Test results of efficiency and gain

	1	2	3	4	5	6
Frequency(MHz)	2400	2420	2440	2460	2480	2500
Efficiency(%)	79.6	77.6	77.9	79.3	75.5	73.9
Gain(dBi)	8.2	8.2	7.94	7.83	7.30	6.89
Peak Gain Position(Thete)	154	154	154	154	152	-120
Peak Gain Position(Phi)	20	20	20	20	22	78

	7	8	9	10	11	12
Frequency(MHz)	5100	5140	5180	5220	5260	5300
Efficiency(%)	65.8	64.1	65.8	60.6	67.1	63.9
Gain(dBi)	5.41	5.39	5.64	5.25	5.69	5.33
Peak Gain Position(Thete)	-122	-122	-122	-122	-122	-120
Peak Gain Position(Phi)	28	26	26	24	24	24

	13	14	15	16	17	18
Frequency(MHz)	5340	5380	5420	5460	5500	5540
Efficiency(%)	68.2	67.5	62.4	66.9	66.6	64.2
Gain(dBi)	5.51	5.60	4.94	5.17	5.00	4.44
Peak Gain Position(Thete)	-122	-120	-122	-124	-122	-122
Peak Gain Position(Phi)	24	24	22	22	22	22

	19	20	21	22	23	24
Frequency(MHz)	5580	5620	5660	5700	5740	5780
Efficiency(%)	67.1	65.4	64.1	66.0	69.5	69.0
Gain(dBi)	4.49	4.32	3.80	3.97	4.10	3.67
Peak Gain Position(Thete)	-126	-124	-122	-124	-124	-124
Peak Gain Position(Phi)	22	20	18	20	20	18

	25	26	27			
Frequency(MHz)	5820	5860	5900			
Efficiency(%)	66.3	63.9	62.6			
Gain(dBi)	3.36	3.70	3.07			
Peak Gain Position(Thete)	-124	-124	-124			
Peak Gain Position(Phi)	18	18	20			