



ONE PLUS ONE
Wireless Communication

Shenzhen OnePlusOne Wireless Communication Technology Co.,Ltd.

APPROVAL SHEET

Customer Name	掌阅
Project Name	SM07A
Customer P/N	
Specification	WIFI-2.4/5.8GHZ Antennas
Production Date	20250717

Approval				
OnePlusOne:				
	RF Check	ME Check	QC Check	Confirm By
Signature				
Date				
Customer:				
	EE Check	PM Check	QC Check	Confirm By
Signature				
Date				

Please return to us one copy of “APPROVAL SHEET” with your approved signatures

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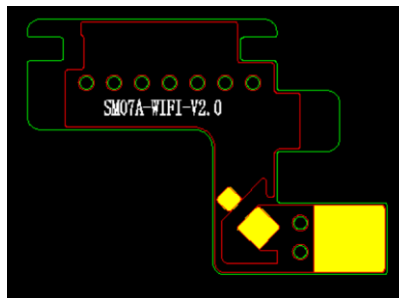
1 Antenna description

ANT	SM07A
FRE (MHZ)	2400-2500/5000-5800
TPYE	IFA
Antenna material	FPC+Cable

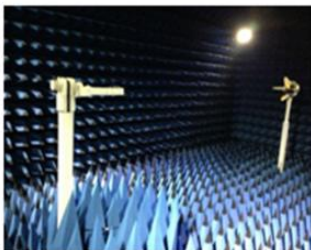
1.1 Part number

ANT	SM07A
SIZE (MM)	22.92*16.29
Printing	SM07A-WIFI-V2.0
Cable (MM)	4代 IPEX0.81 同轴线 L=26MM

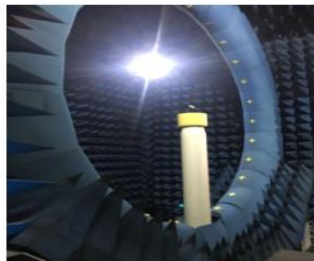
1.2 Antenna pictures



2 Testing equipment



ETS 暗室



SATIMO 暗室



人頭手模



8820C 综测仪



E5071B 网络分析仪

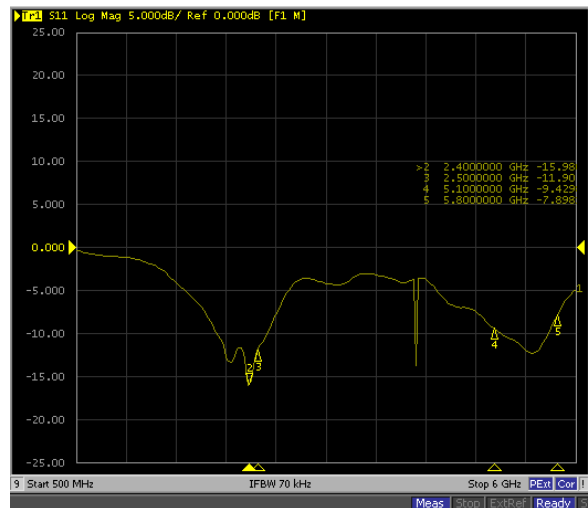


CMW 500 综测仪

测试系统	测试环境	有源测试	无源测试
SATIMO ETS	温度:22°C±2°C 湿度:50%±15%	2G/3G/4G/WIFI/BT	600MHZ-6GHZ

3 Test data

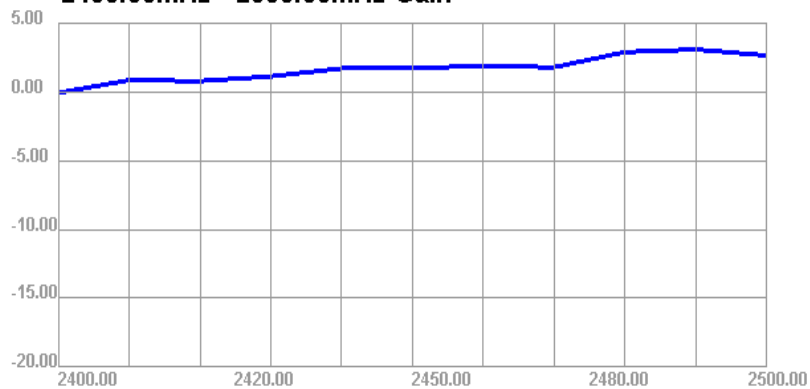
3.1 Passive



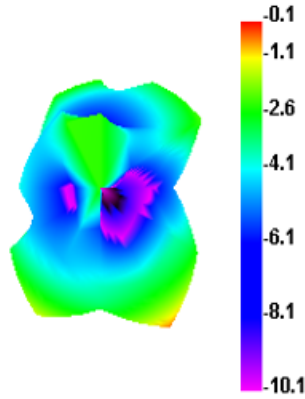
VSWR

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	32.54	-4.88	-0.07	5000	31.13	-5.07	1.82
2410	33.98	-4.69	0.84	5100	40.77	-3.90	3.2
2420	34.21	-4.66	0.78	5200	31.46	-5.02	2.38
2430	36.41	-4.39	1.12	5300	29.68	-5.28	1.63
2440	33.84	-4.71	1.71	5400	30.34	-5.18	2.26
2450	35.52	-4.50	1.74	5500	32.78	-4.84	2.53
2460	34.54	-4.62	1.87	5600	30.71	-5.13	2.08
2470	36.01	-4.44	1.79	5700	36.41	-4.39	1.67
2480	34.87	-4.58	2.89	5800	33.39	-4.76	1.95
2490	32.14	-4.93	3.08	5900	37.6	-4.25	2.83
2500	30.11	-5.21	2.64	6000	28.22	-5.49	-2.97

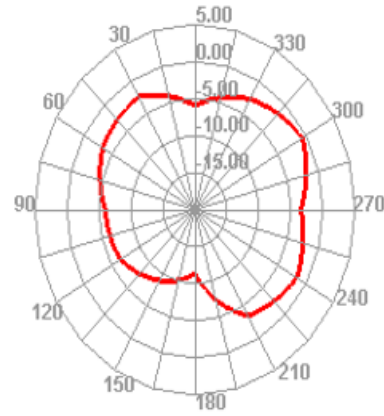
2400.00MHz - 2500.00MHz Gain



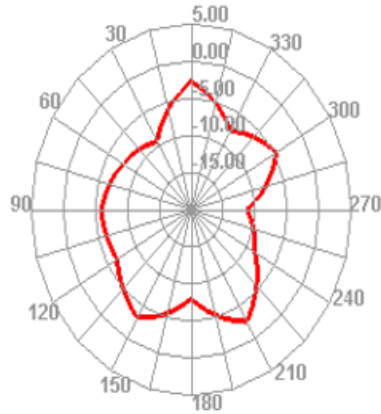
2400.000MHz



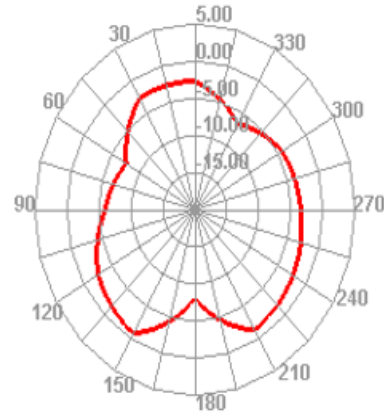
2400.000MHz H



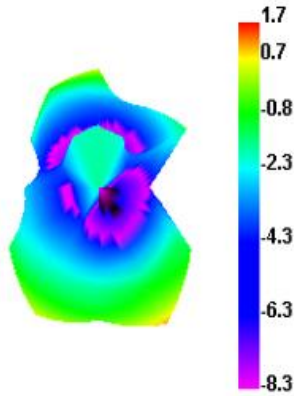
2400.000MHz E1



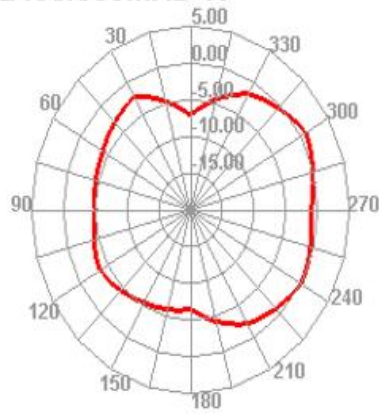
2400.000MHz E2



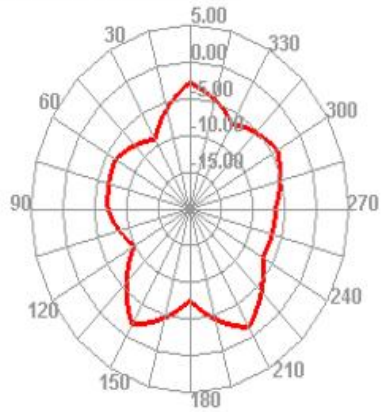
2450.000MHz



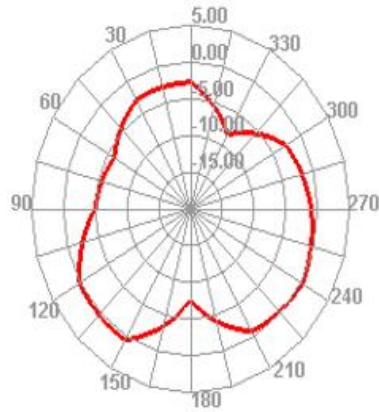
2450.000MHz H



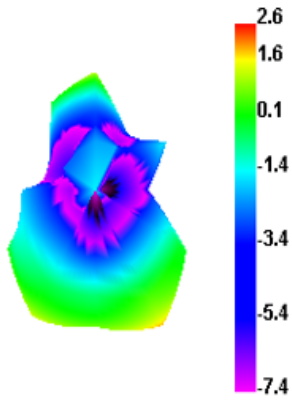
2450.000MHz E1



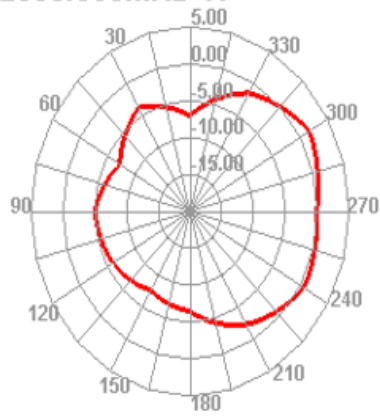
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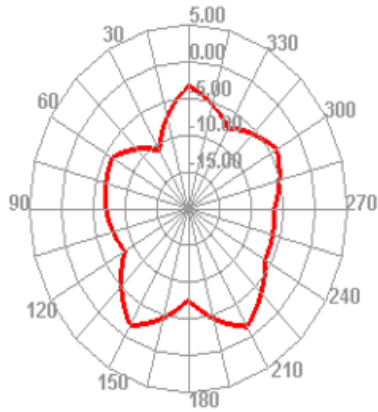
2500.000MHz



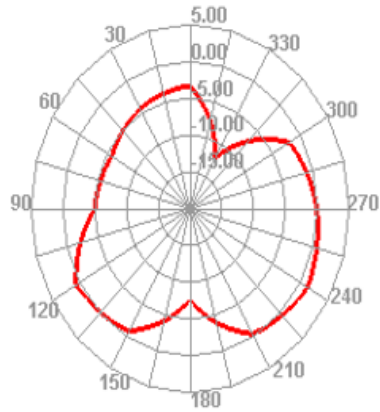
2500.000MHz H



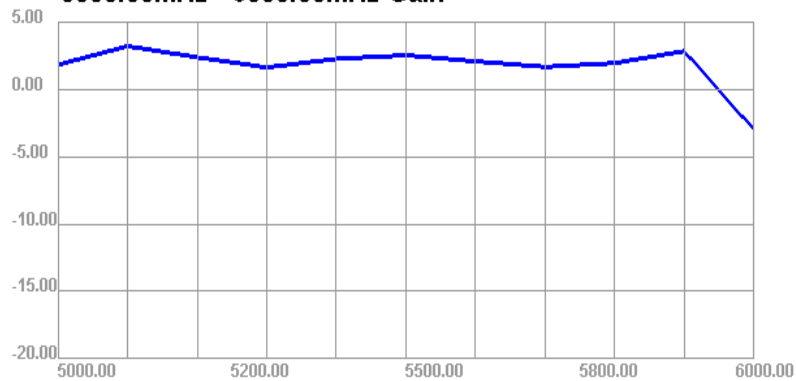
2500.000MHz E1



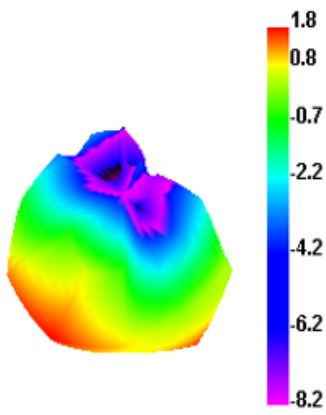
2500.000MHz E2



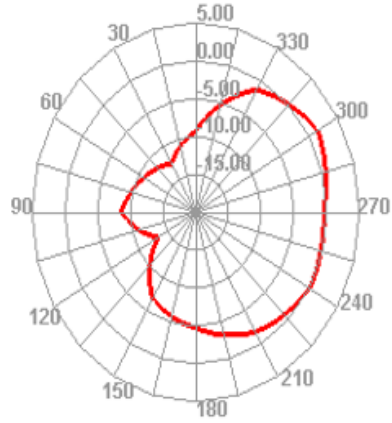
5000.00MHz - 6000.00MHz Gain



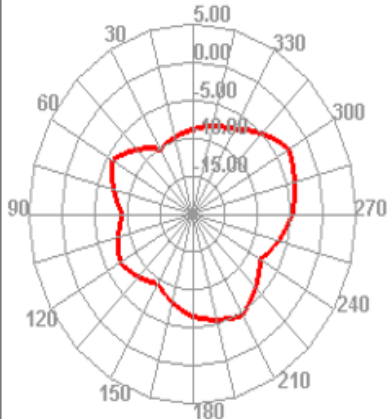
5000.000MHz



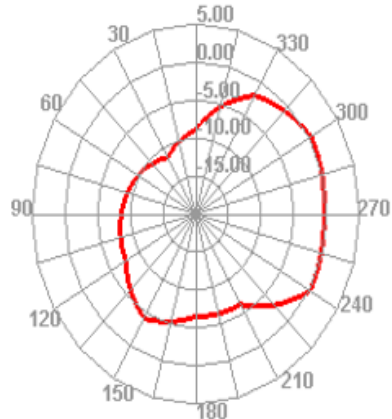
5000.000MHz H



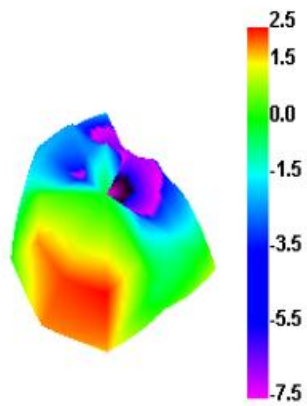
5000.000MHz E1



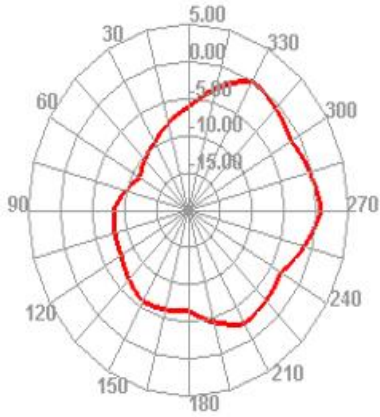
5000.000MHz E2



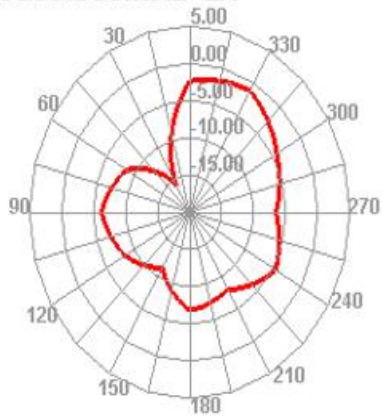
5500.000MHz



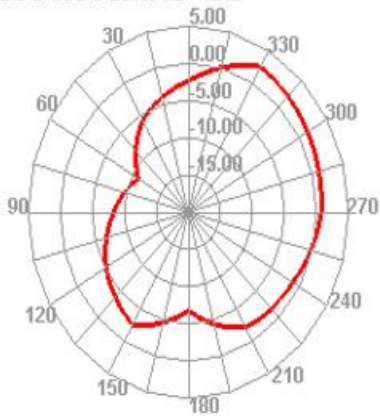
5500.000MHz H



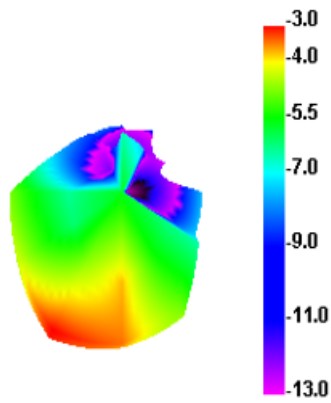
5500.000MHz E1



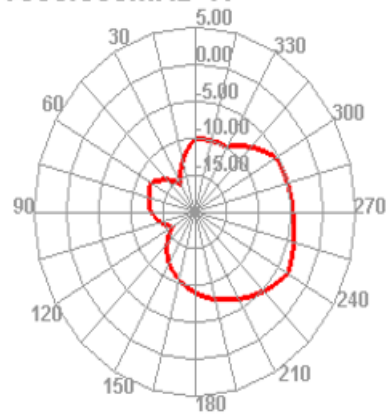
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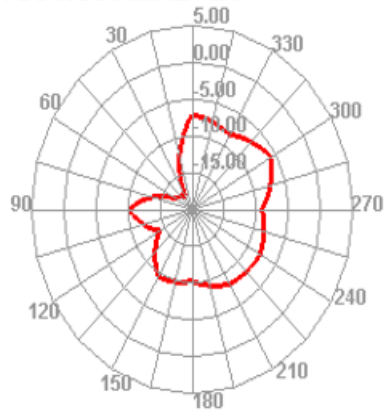
6000.000MHz



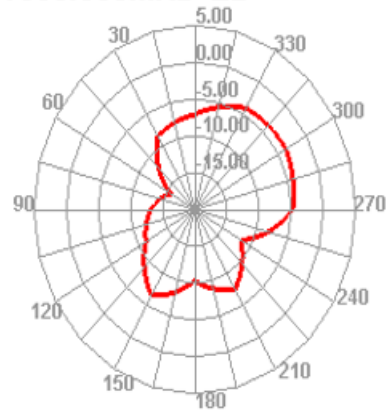
6000.000MHz H



6000.000MHz E1



6000.000MHz E2



4 Matching Circuit Description

No changes made

5 Drawing

5.1 Dimensional drawin

