

Specification For Approval

Client:	Geomax AG Eспенstrasse 135, 9443 Widnau Switzerland
Supplier	Beijing Radiocraft Technology Co.,LTD 253, Floor 5, Unit 2, Building 5, Hounancang, Tongzhou District, Beijing
Production Number	RACL-GP-00-3I-001

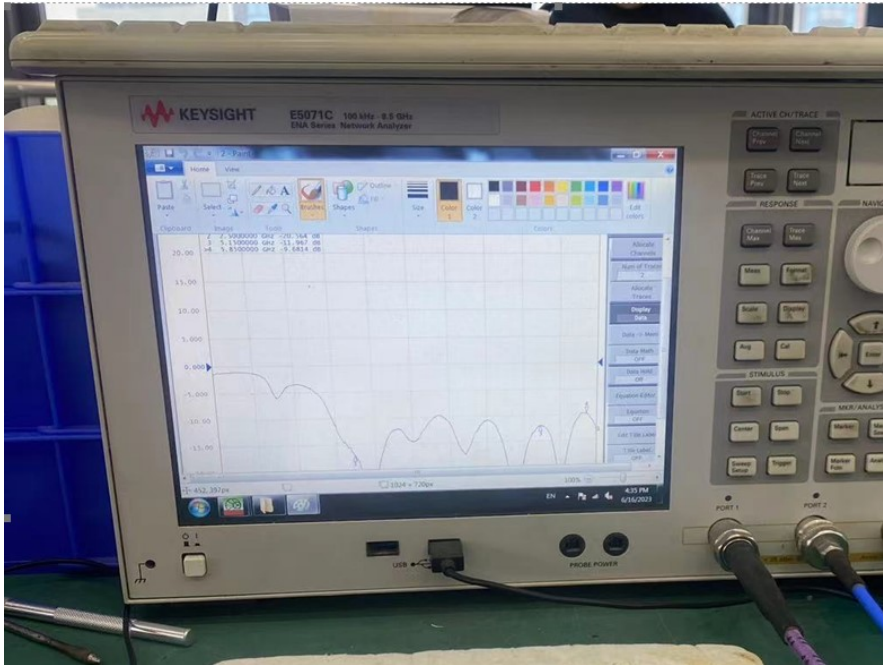
1.3 Antenna Type

FPC antenna.

2 TEST

2.1 Test setup

- ① The return loss was measured with Agilent E5071.



- ② The efficiency and gain were measured in MVG-SATIMO Chamber



MVG chamber and measurement system

- ③ Measurement equipment description

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Description	Manufacturer	Model No	Serial No	Calibrated Date	Calibrated Until
	Agilent	E5071C	MY46316132	2023/1/13	2024/1/13
	SATIMO MVG	SG64	1103277-0001	2023/1/16	2024/1/16
	测试软件	WaveStudio	2020.2.8		
	分析软件	satenv	3.0.3.0.23		

2.2 Test step

- ① The instrument is powered on and preheated for more than 30 minutes;
- ② Turn on the darkroom power supply, connect the test cable, and set up the sample according to the standard;
- ③ Outline sets the test content objectives and conducts calibration tests;
- ④ Run the software, when the test is completed, export the corresponding test diagram and testdata, and save to the corresponding directory.

3. Electrical Performance

3.1. Return Loss



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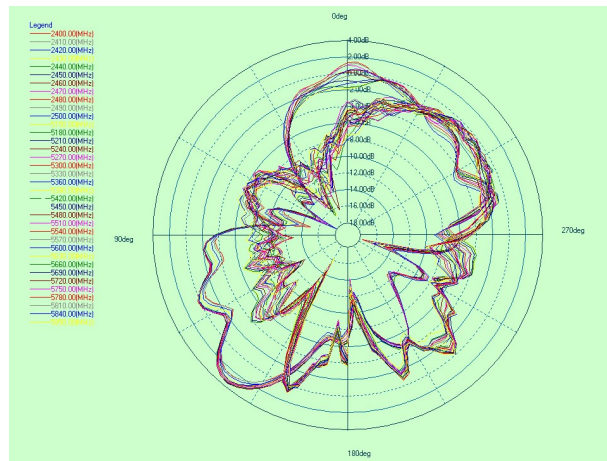
3.2 Efficiency and Peak Gain

Frequency (MHz)	Efficiency (%)	Peak gain	Frequency (MHz)	Efficiency (%)	Peak gain
2400	69%	3.01	5360	64%	3.67
2410	68%	2.93	5390	64%	3.51
2420	69%	2.87	5420	65%	3.81
2430	70%	3.08	5450	66%	3.75
2440	72%	3.48	5480	64%	3.83
2450	72%	3.54	5510	66%	3.98
2460	73%	3.52	5540	63%	3.86
2470	75%	3.44	5570	63%	3.86
2480	76%	3.64	5600	64%	4.02
2490	76%	3.63	5630	61%	3.78
2500	74%	3.58	5660	63%	3.97
5150	61%	3.08	5690	63%	3.88
5180	63%	3.32	5720	59%	3.76
5210	64%	3.13	5750	59%	3.80
5240	64%	3.21	5780	58%	3.72
5270	63%	3.29	5810	58%	3.88
5300	62%	3.27	5840	59%	3.82
5330	62%	3.37	5850	58%	3.75

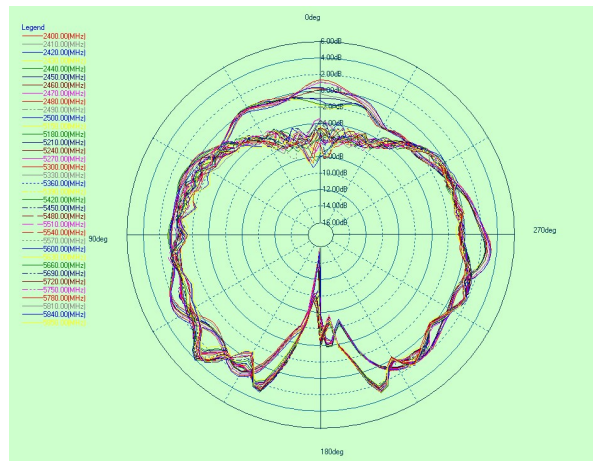
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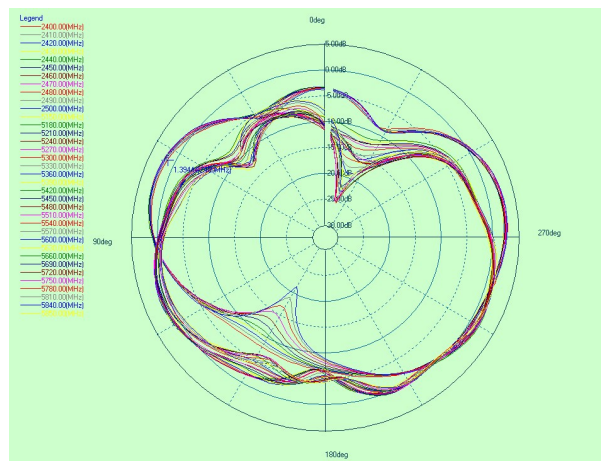
3.3 2D Pattern



Phi=0



Phi=90

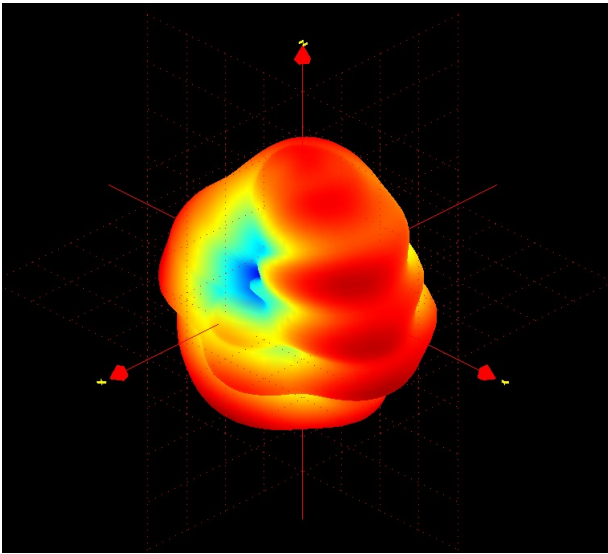


Theta=90

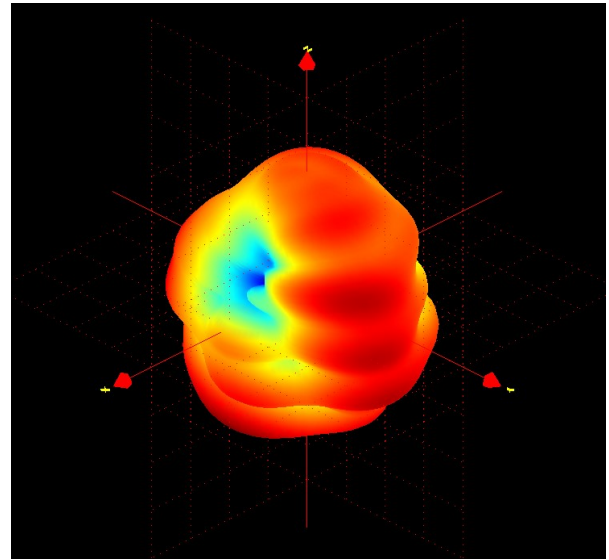
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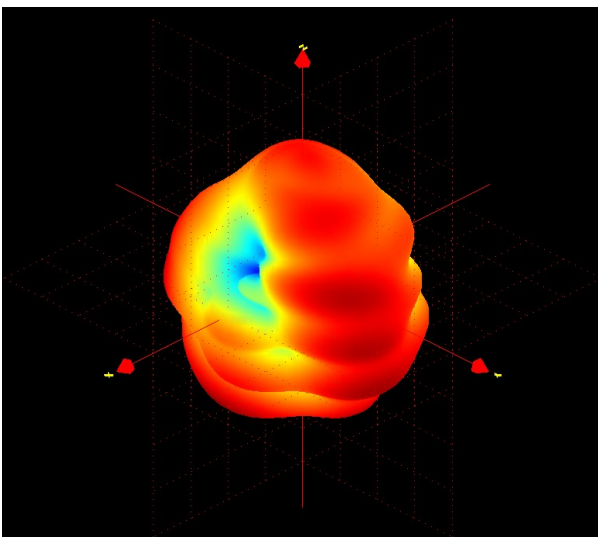
3.4 3D Pattern



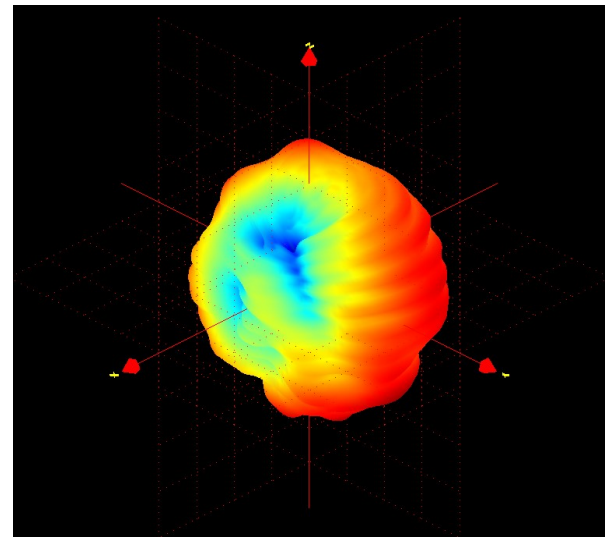
2400MHz



2450MHz



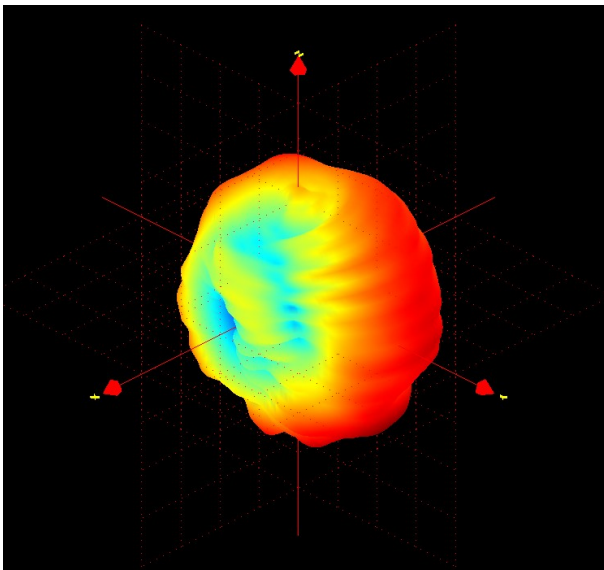
2500MHz



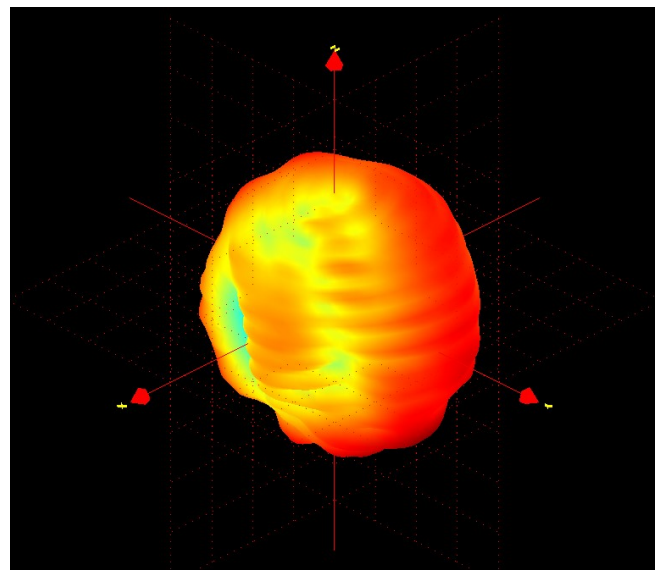
5150MHz

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5510Mhz



5850Mhz

4.Parameter

Electrical

Antenna Model	2.4G&5G FPC antenna
Frequency	2400-2500MHz&5150-5850 MHz
Impedance	50 Ω
Polarization	Omnidirectional
Antenna Gain	Max Gain 2.4G: 3.64 & 5G Max Gain: 4.02
S.W.R	<2

Mechanical

Cable	RF113
Connector	I-PEX 20278-112R-13
Length	120mm
Operation Temperature	-40° C ~80° C

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