

Megasoft Ltd

Antenna Specification

PN: SKWX902928D8B04A. US

Project Name: Circular Polarized 860-930MHZ Directional Antenna

Description: 860-930MHZ directional Antenna, gain 6.26dBi

Customer PN: SKWX902928D8B04A. US

Product PN: SKWX902928D8B04A. US

Revision: V1.0

Date: 2022-11-16

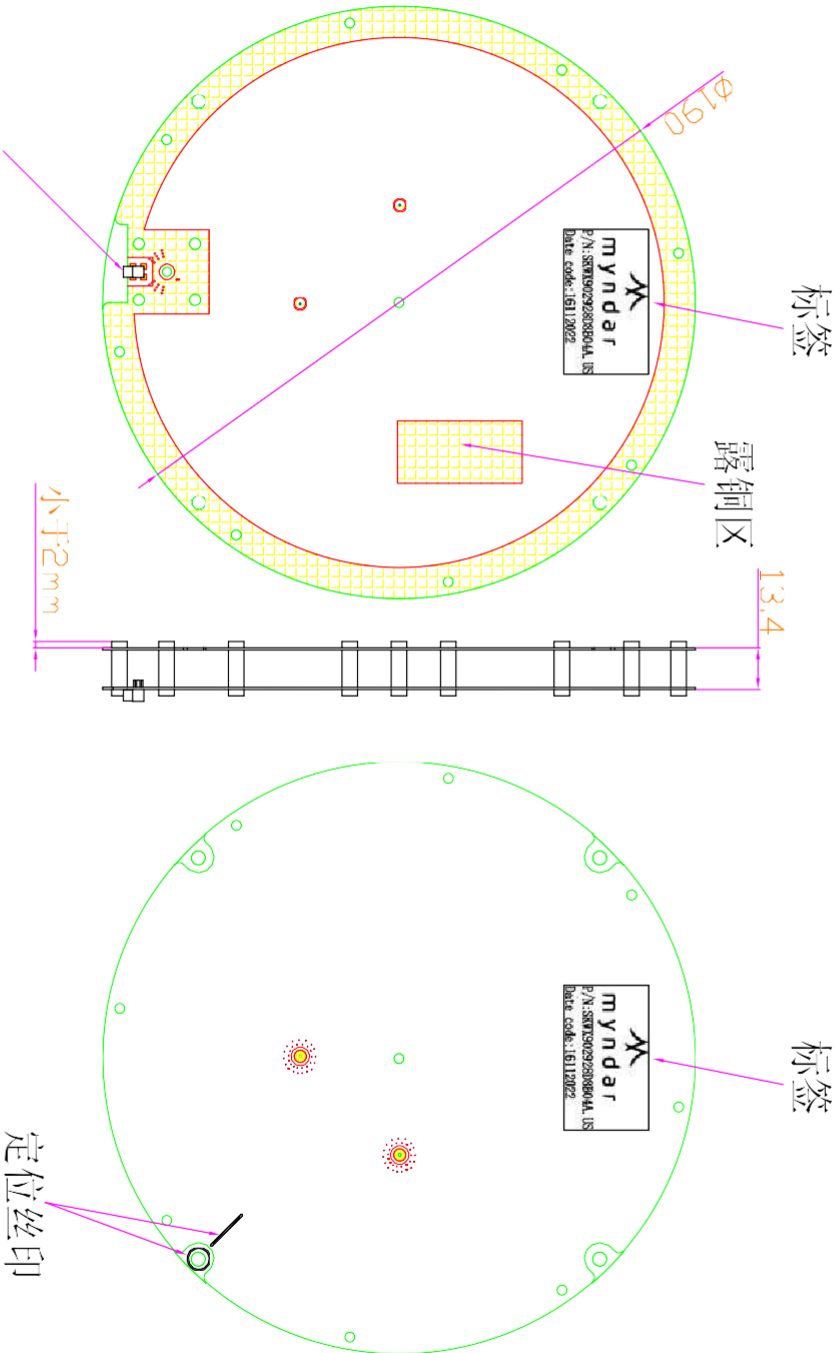
Engineering	Purchase	Accept

R&D	Engineering	Approval

Specification

Electrical characteristics	
Frequency	902MHz~928MHZ
VSWR	<2.0
Efficiency	>60%
Max. Gain	6.26dBi @902MHz~928MHZ
Impedance	50 ohm
Polarization	Circular Polarized
Material and Mechanical characteristics	
Material	Copper
Cable	None
Terminal	MMCX
Dimension	190mm*190mm*18mm (See drawing)
Silkscreen	
Environment	
Store Temperature	- 30 °C ~ + 85 °C
FPC soldering Temperature	280±5°C Dipping time:10 Seconds
RF cable soldering temperature	320±5°C 2-3 Seconds

Megasoft Limited
Unit 301-302, 3/F, Building 12W, No. 12 Science Park West
Avenue, Hong Kong Science Park, Shatin,
New Territories, Hong Kong



A	New drawing			
Key	Description	Date	Remark	
1				

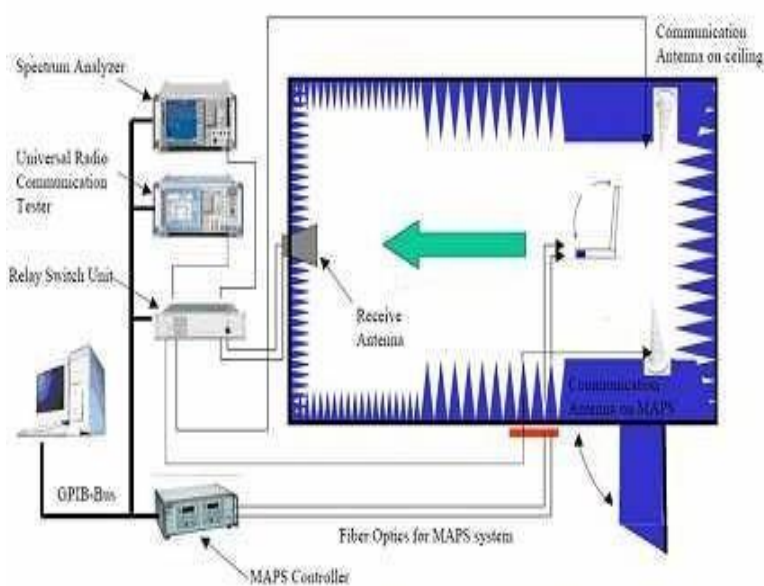
深 圳 天 联 凌 科 技 有 限 公 司		SHEN ZHEN SKYLink CO., LTD	
Third Angle		Project	
0~10	±0.05	○	0.02
10~18	±0.10	◎	0.03
18~30	±0.12	⊥	0.02
30~40	±0.15	∠	0.04
40~	±0.20	Angle	±0.5°
Location		DWG No.	
		Part Name	
		Part No.	
		Material	
		Designed by	
		Date	
		MD	
		RF	
		Approved by	
		Unit	
		mm	
		Scale	
		1:1	
		Rev	
		A	

Testing equipment and conditions

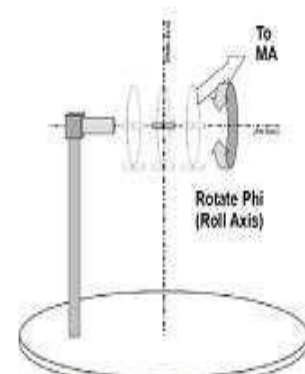
1. Network Analyzer :
Agilent 8753D, Agilent 5071B

Communication Test Set:
Agilent E5515C,

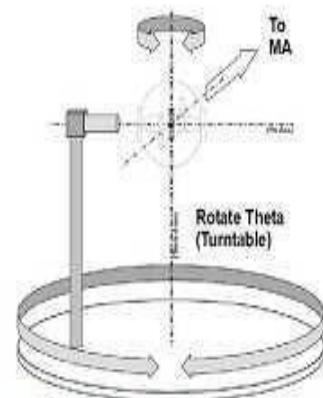
2. 3D measurement system



(Testing by 3D anechoic chamber)

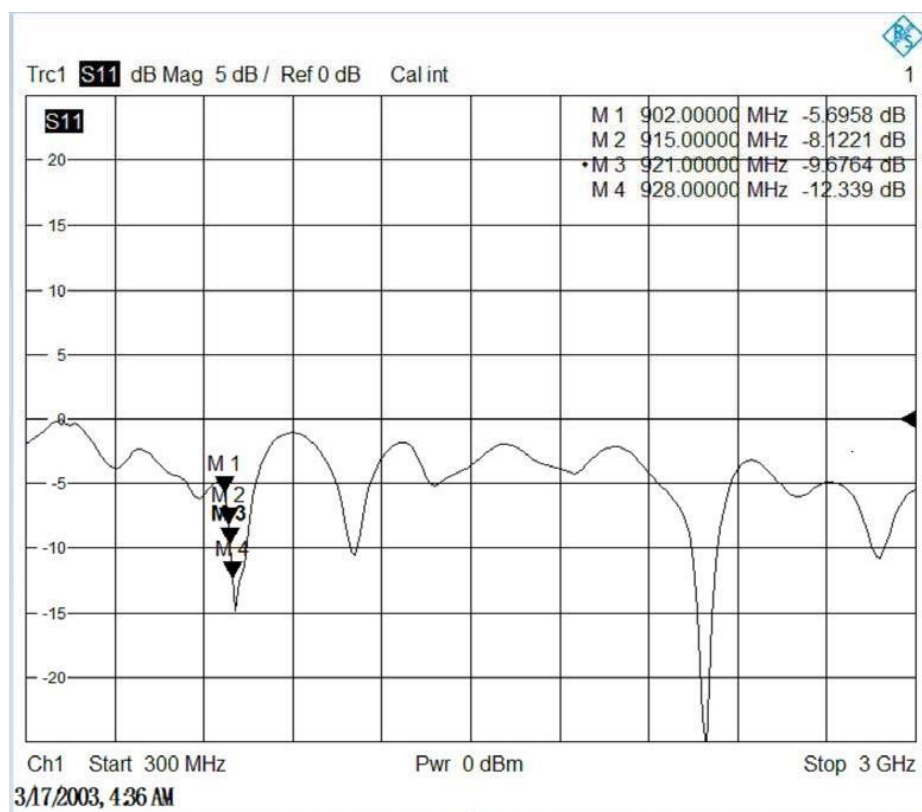


Phi axis test



Theta axis test

Return Loss



Efficiency & Gain

Freq (MHz)	Effi (%)	Gain (dBi)
900	48.32	4.33
905	54.99	4.91
910	56.24	5.05
915	63.03	5.58
920	71.67	6.18
925	67.66	5.96
930	69.77	6.14
935	70.24	6.26
940	66.9	6.17
945	66.38	6.19
950	62.42	5.98
955	58.29	5.71
960	56.55	5.63

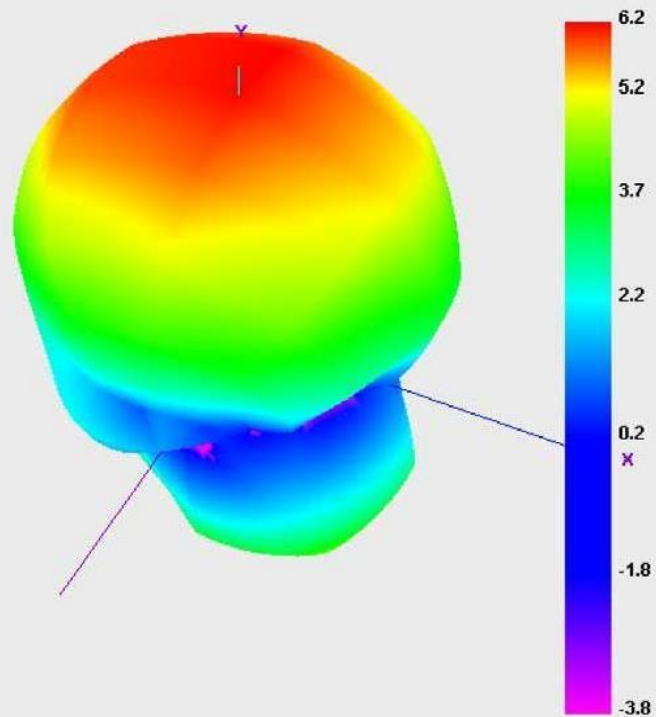
Antenna Photo



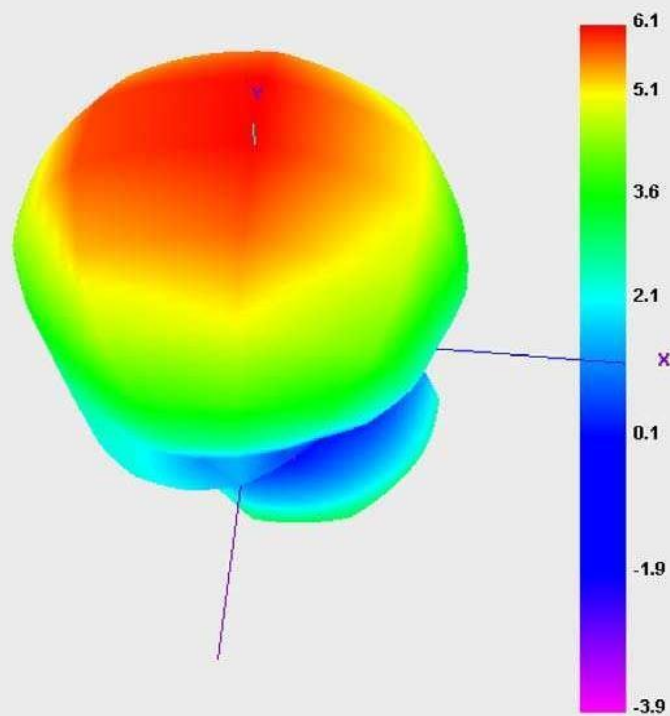
Megasoft Limited
Unit 301-302, 3/F, Building 12W, No. 12 Science Park West Avenue, Hong Kong Science Park, Shatin,
New Territories, Hong Kong

Radiation Patterns

920.000MHz



930.000MHz



Packing



Megasoft Limited
Unit 301-302, 3/F, Building 12W, No. 12 Science Park West Avenue, Hong Kong Science Park, Shatin,
New Territories, Hong Kong