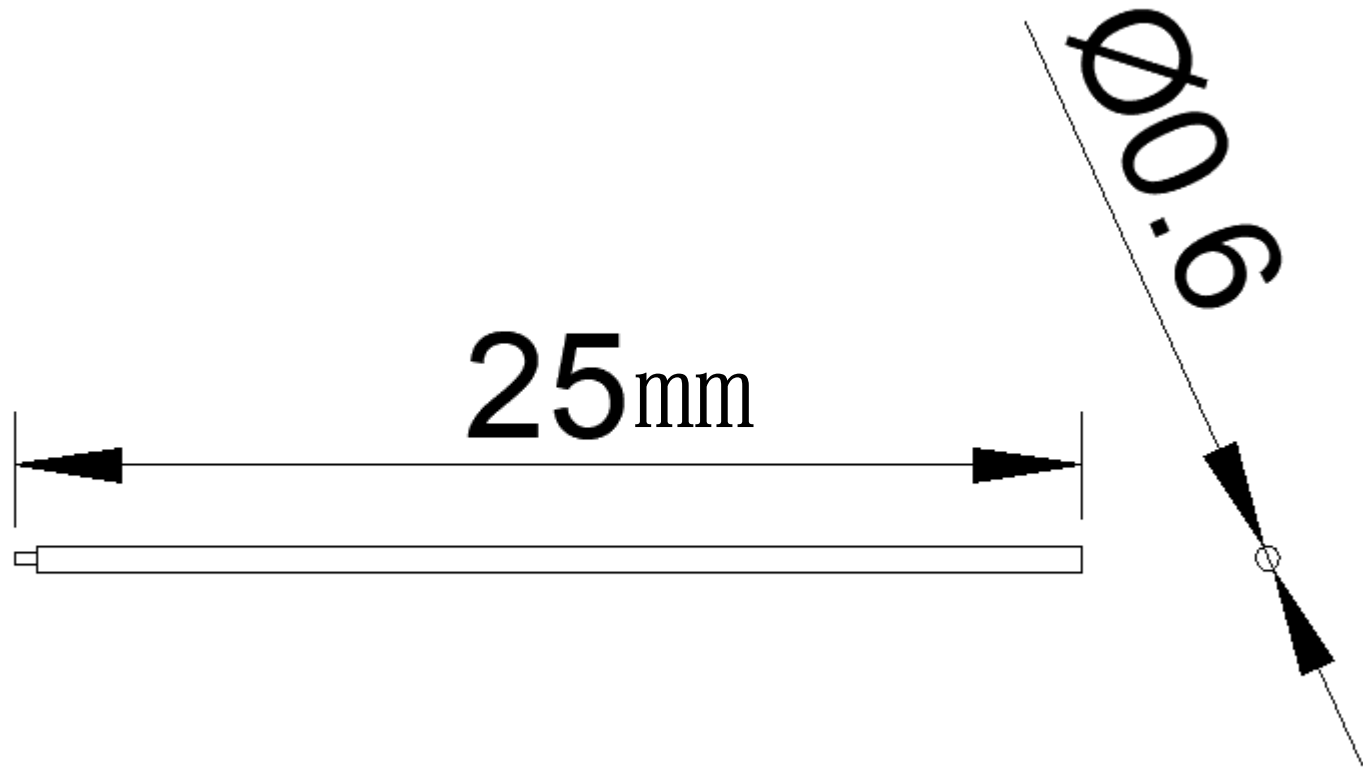


Shenzhen Sperll Optoelectronic Technology Co., Ltd.

No. 3007 Shennan Middle Road, Futian Street, Futian District, Shenzhen, Guangdong Province

Antenna test report

			RBX		2022. 10. 10
RF Engineer	Wang Jiaxi	Structural engineer	Zhou Lei	Freq uenc y band	2402~2480MHz

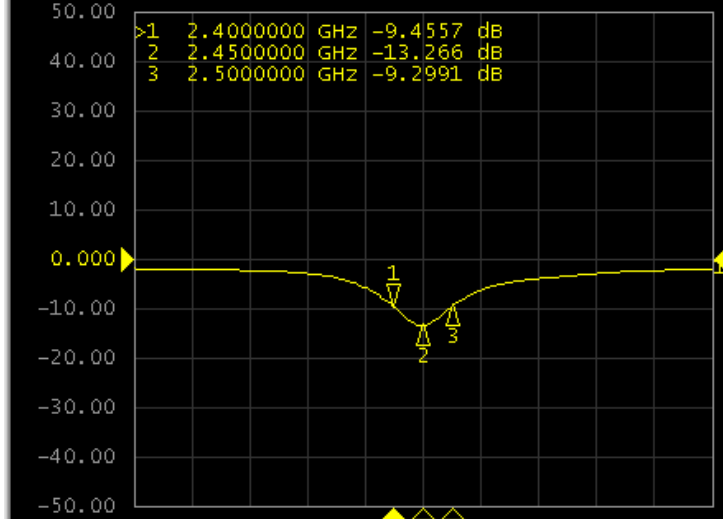


E5071C Network Analyzer

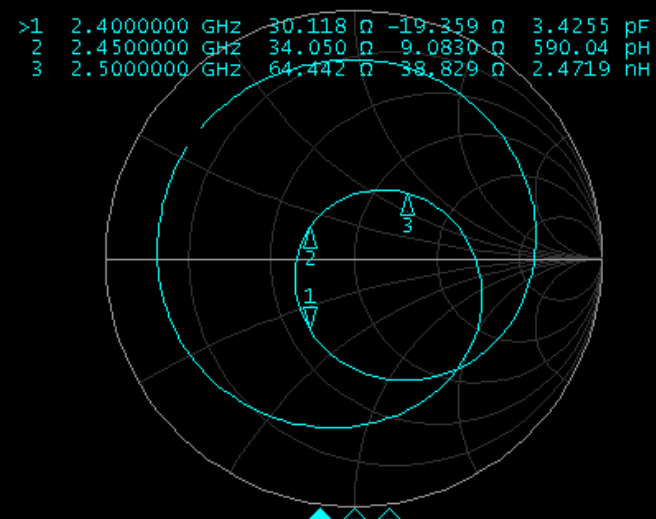
1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

Resize

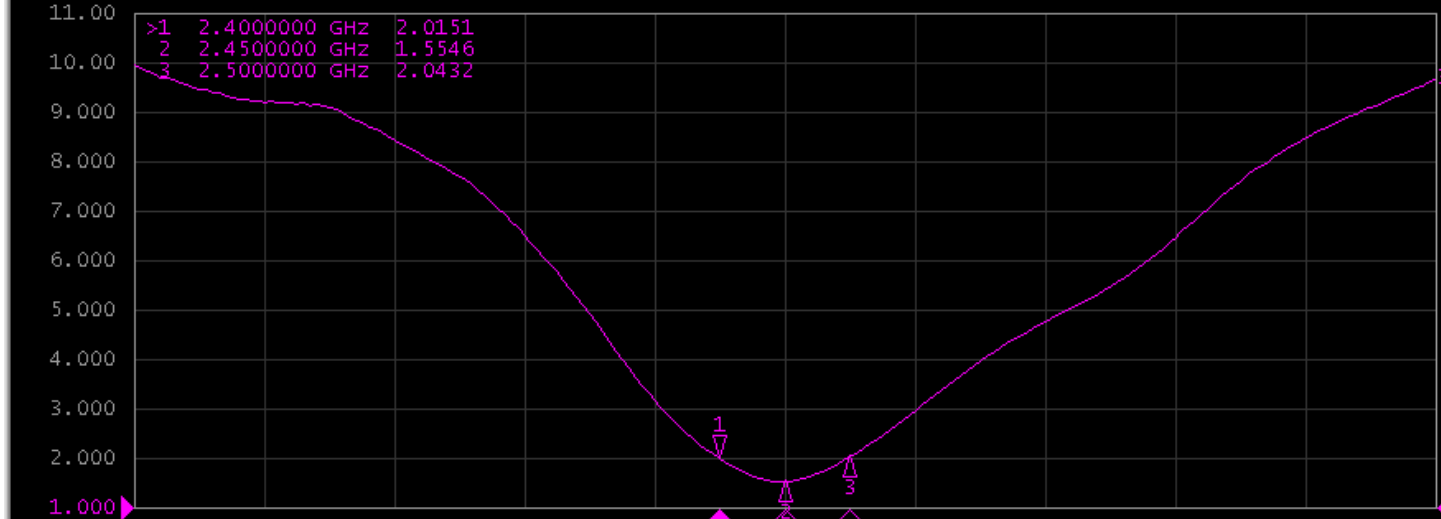
Tr1 S11 Log Mag 10.00dB/ Ref 0.000dB [F1]



Tr2 S11 Smith (R+jX) Scale 1.000U [F1]



Tr3 S11 SWR 1.000/ Ref 1.000 [F1]



1 Center 2.45 GHz

IFBW 70 kHz

Span 1 GHz Cor |

Format

SWR

Log Mag

Phase

Group Delay

Smith

Polar

Lin Mag

SWR

Real

Imaginary

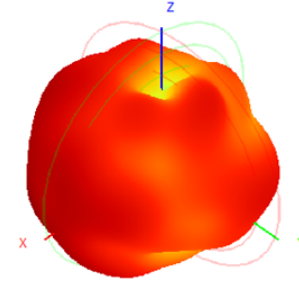
Expand
Phase

Positive
Phase

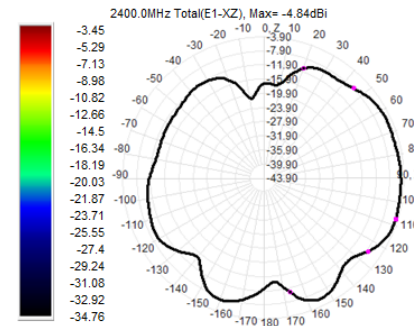
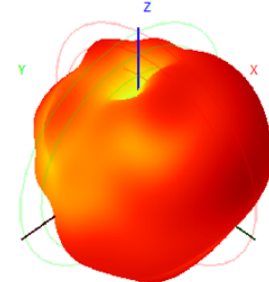
Return

VER7[illegible]

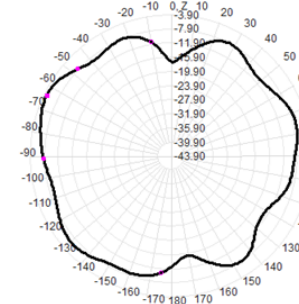
2400.0MHz H+V, Eff: 14.4%



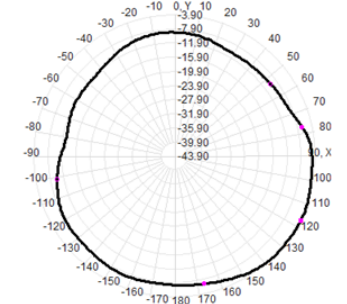
Back View



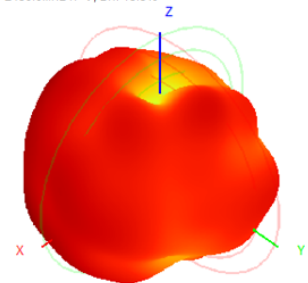
2400.0MHz Total(E2-YZ), Max=-4.73dBi



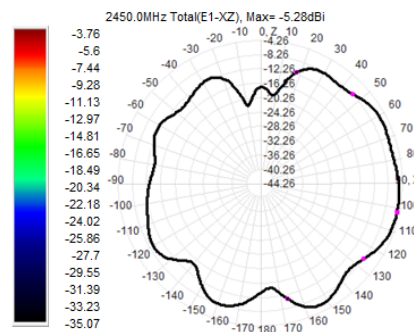
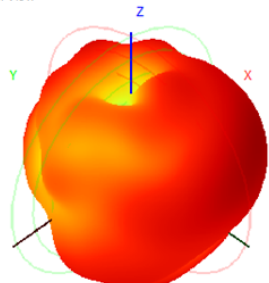
Total(H-XY), Max=-3.90dBi, CirD=8.87



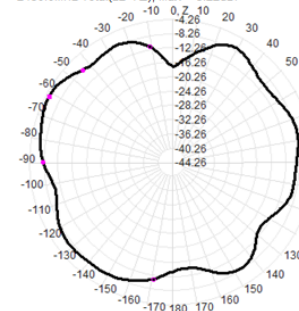
2450.0MHz H+V, Eff: 13.3%



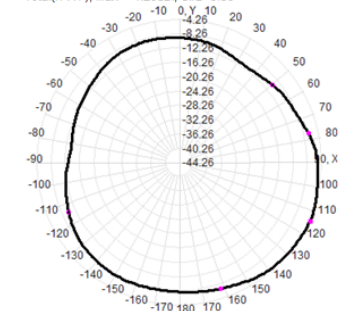
Back View



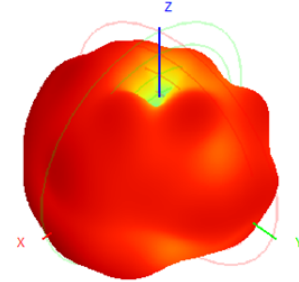
2450.0MHz Total(E2-YZ), Max=-5.22dBi



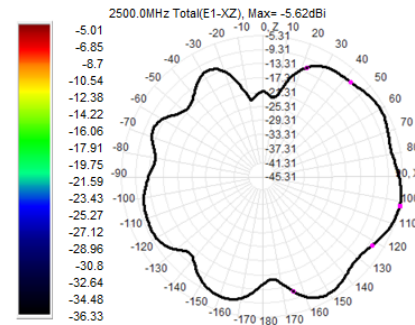
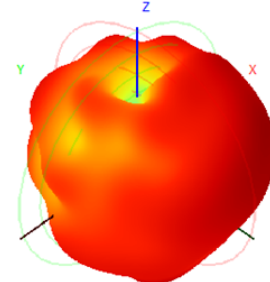
Total(H-XY), Max=-4.28dBi, CirD=9.36



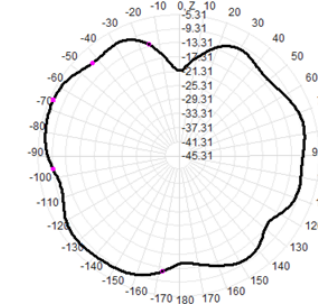
2500.0MHz H+V, Eff: 11.1%



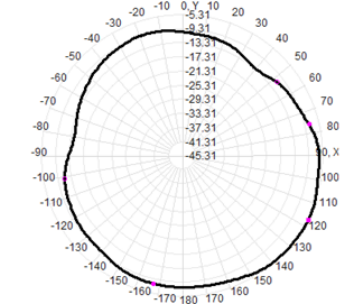
Back View



2500.0MHz Total(E2-YZ), Max=-6.42dBi

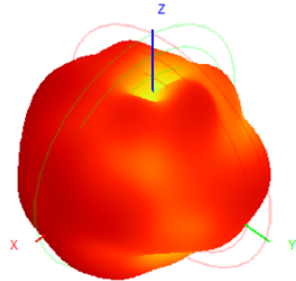


Total(H-XY), Max=-5.31dBi, CirD=8.95

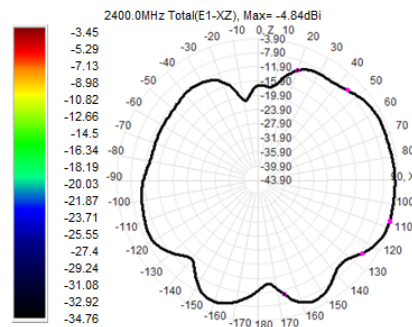
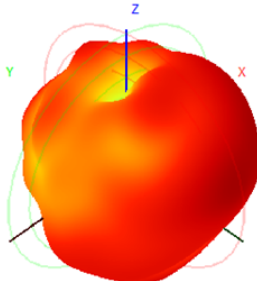


Frequency ID	1	
Frequency (MHz)	2402-2480	
Efficiency (dBi)	-8.42	
Gain (dBi)	-3.45	
Efficiency (%)	14.39	
Directivity (dB)	4.97	
Peak Gain Position (Theta)	98.00	
Peak Gain Position (Phi)	332.00	
Efficiency ThetaPol (%)	10.97	
Efficiency PhiPol (%)	3.42	
Upper Hem. Efficiency (%)	7.29	
Lower Hem. Efficiency (%)	7.10	

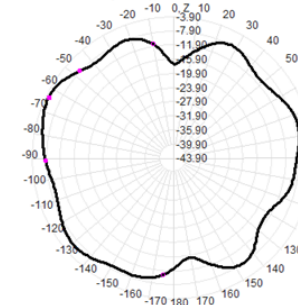
2400.0MHz H+V, Eff: 14.4%



Back View



2400.0MHz Total(E2-YZ), Max= -4.73dBi



Total(H-X), Max= -3.90dBi CirD=8.87

