

Manufacturer
Address
Model

Savant Technologies LLC, dba GE Lighting, a Savant company
1975 Noble Road, East Cleveland, OH 44112 USA
LDS8720Tile_A

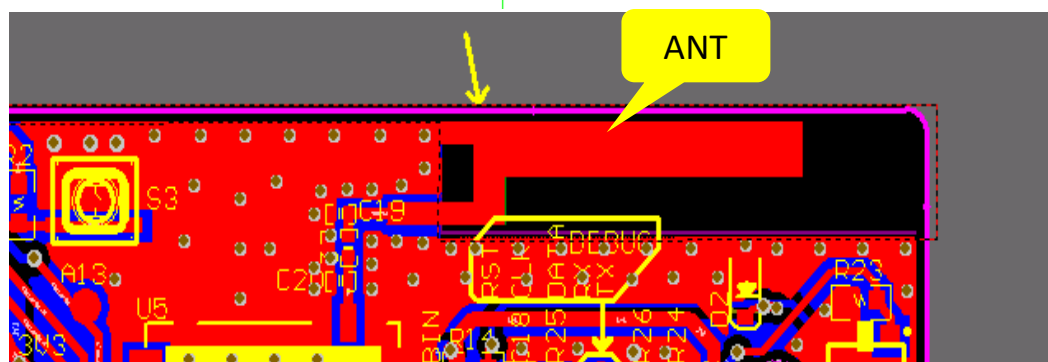
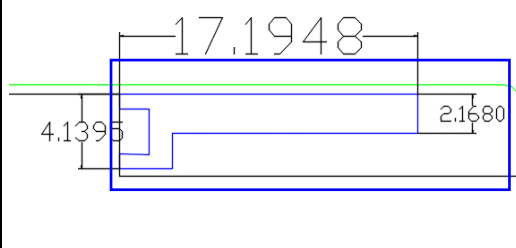
SY-16M Test System



1. Operating band: 2400 MHz ~ 2483.5 MHz

2. Antenna Type: inverted F PCB antenna

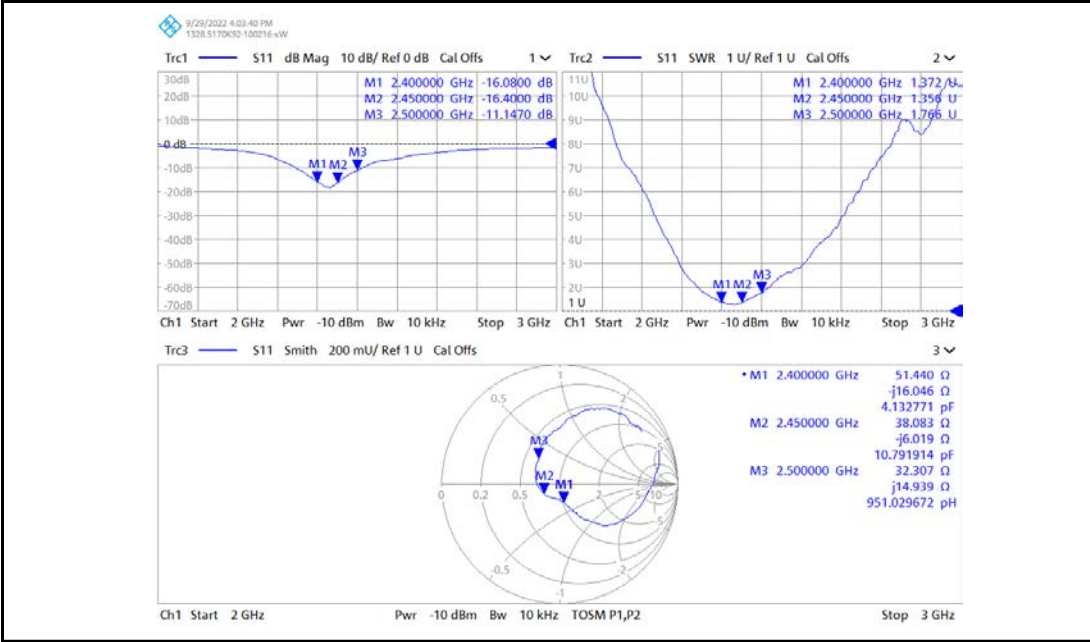
Antenna picture(unit: mm)



Test Result

VNA Data

VSWR & Return loss & Smith Chart



Chamber Data

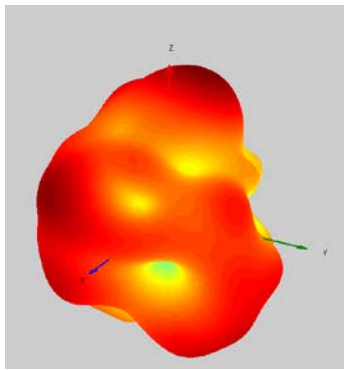
Gain&Efficiency

Gain&Efficiency				
frequency 频率(MHz)	gain 增益(dBi)	mingain 最小增益(dBi)	efficiency 效率(dB)	efficiency 效率(%)
2400	1.71	-26.5	-2.78	52.67
2410	1.85	-25.81	-2.66	54.20
2420	2.16	-24.71	-2.38	57.81
2430	2.01	-27.08	-2.52	56.04
2440	2.03	-29.44	-2.62	54.69
2450	2.29	-25.39	-2.47	56.67
2460	2.31	-22.47	-2.43	57.14
2470	2.08	-23.9	-2.6	54.92
2480	2.02	-31.84	-2.56	55.51
2490	1.94	-31.43	-2.51	56.16
2500	2.2	-24.3	-2.32	58.67
Max	2.31	-22.47	-2.32	58.67
Min	1.71	-31.84	-2.78	52.67

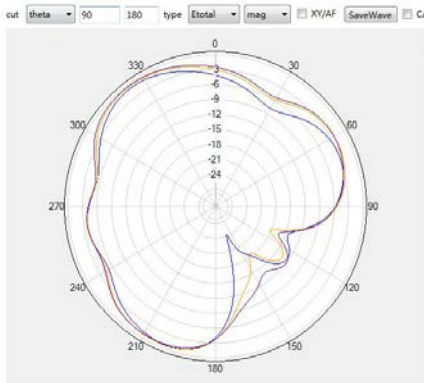
3. Max Antenna gain:2.31 dBi

4. Antenna pattern(2D/3D)

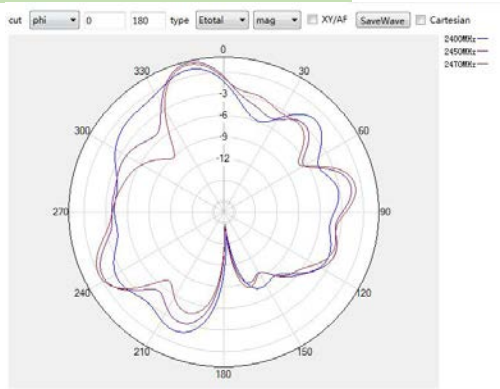
3D



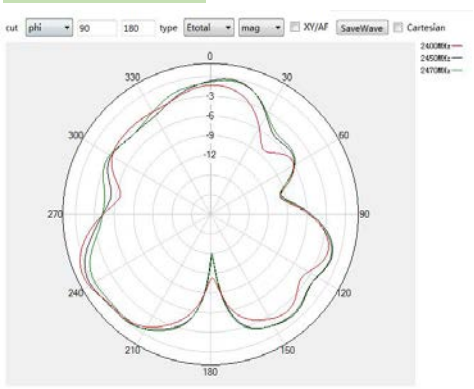
$\theta=90^\circ$ (XY Plane)



$\phi=0^\circ$ (XZ Plane)



$\phi=90^\circ$ (YZ Plane)



Conclusio				
Category	Item	I dex	Test Result	Conclusion
Data	VSWR	≤ 2.5	1.8	Pass
	Average Efficiency (%)	$\geq 25\%$ Level Classification: A ($\geq 45\%$) B (35%~44.99%) C (25%~34.99%)	53%	Pass Level:A
Data Analysis	All the test results meet the requirement.			
	Pass (1.Pass 2.Conditional pass 3.Not pass)			