

Antenna

SPECIFICATION FOR APPROVAL

CUSTOMER: _____
ITEM: _____
SUPPLIER: _____
P/N: AN240113.01
CODE: P0120001A
DATE: 2023.6.21

SPECIFICATION ACCEPTED BY:

CUSTOMER
APPROVED

SUPPLIER
CONFIRMATION

1.0 Environment

Operational Temperature	Storage Temperature	Wet degree
-10°C~+60°C	-10°C~+70°C	40%

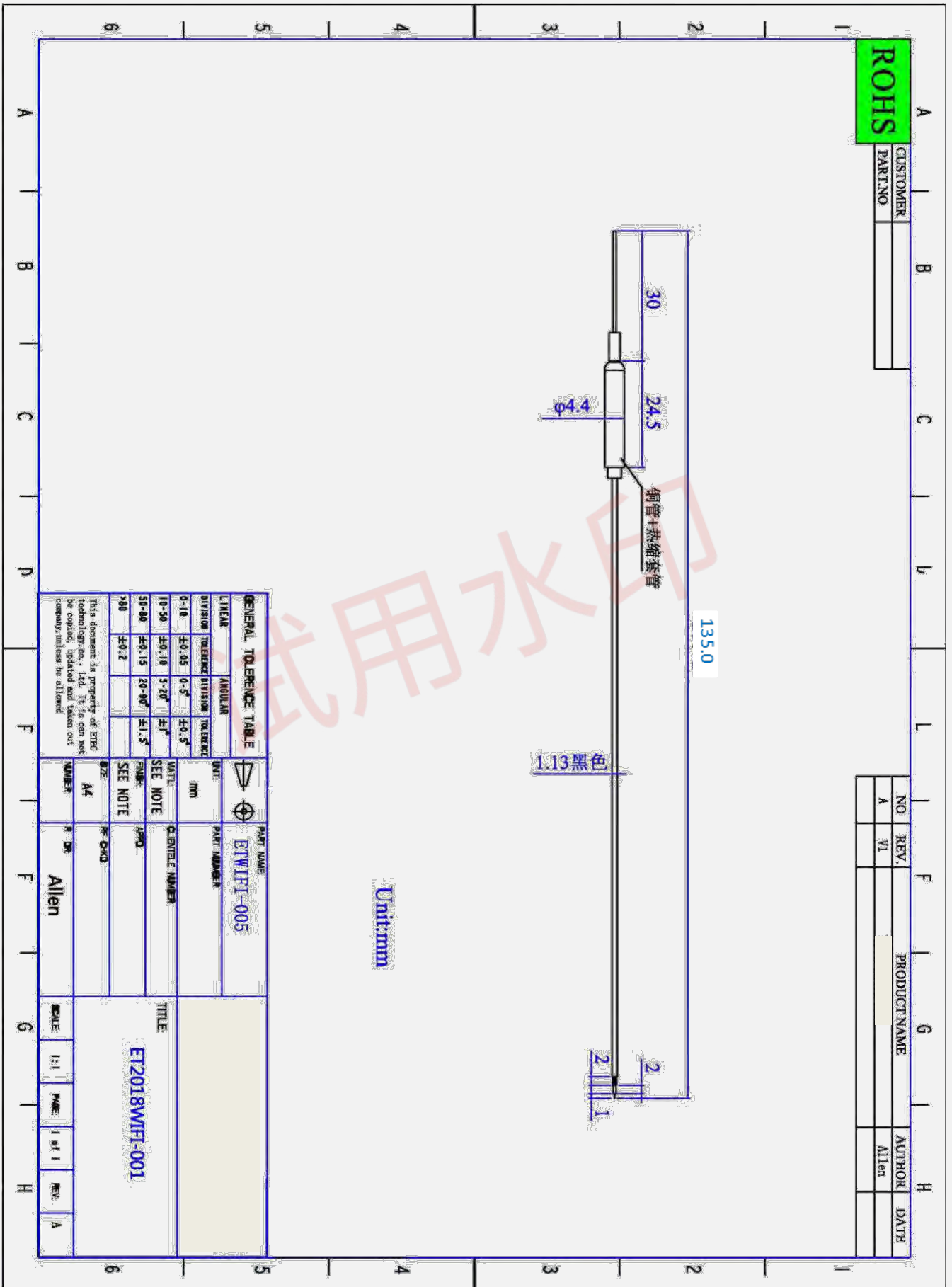
2.0 Electrical characteristics

2.1 Antenna Characteristics		
N0	Characteristics	Specification
1	Frequency	2400~2500MHz 5140-5260MHz 5700-5900 MHz
2	Gain at Zenith	1.97dBi for 2.4G, 2.91dBi for 5G band 1, 3.13 dBi for 5G band 4
3	Output VSWR	<2
4	Impedance	50Ω
5	Radiation	Omni-directional
6	Polarization	Linear,Vertical
7	Admitted Power	1W
8	Horizontal coverage angle	360°

3.0 Return loss / SWR

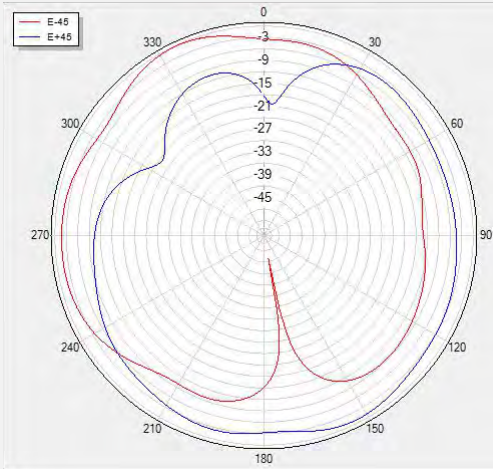


4.0 Antenna Size

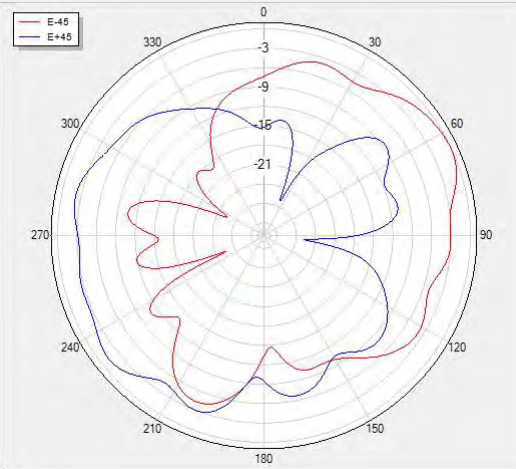


5.0 The Antenna field 2D

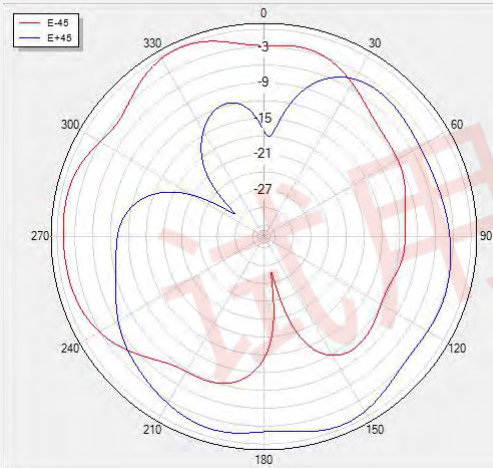
H Theta=90 freq=2400MHz



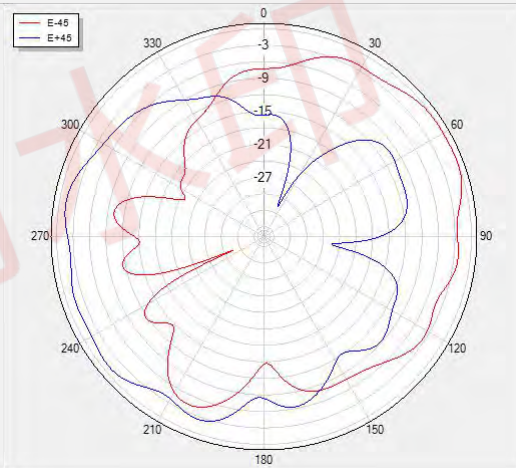
V Phi=0 freq=2400MHz



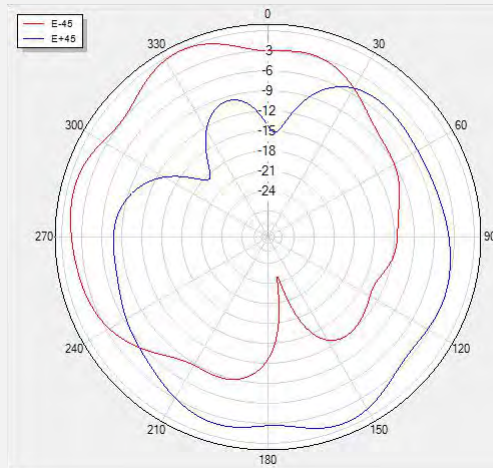
H Theta=90 freq=2450MHz



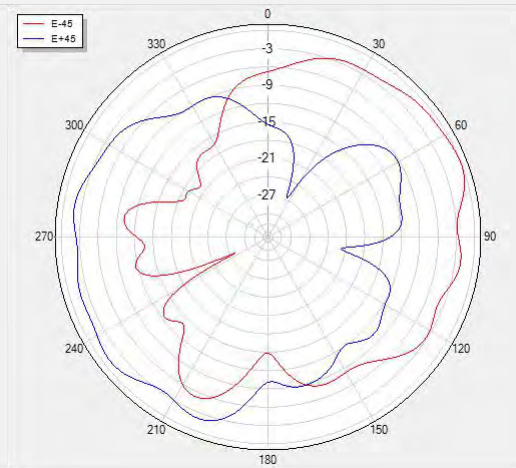
V Phi=0 freq=2450MHz



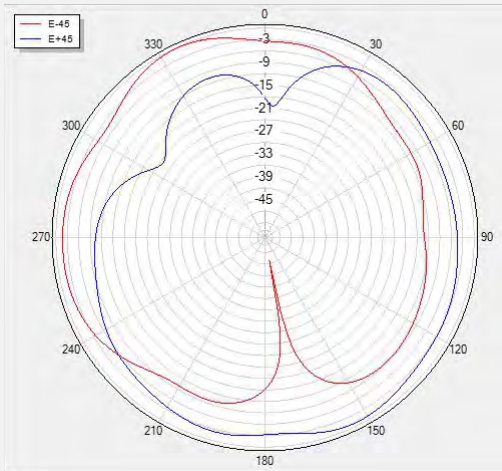
H Theta=90 freq=2500MHz



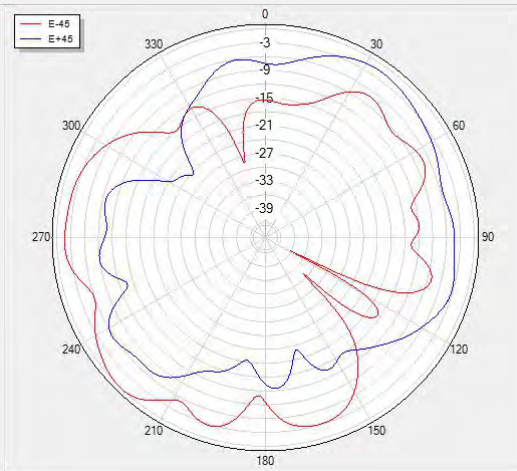
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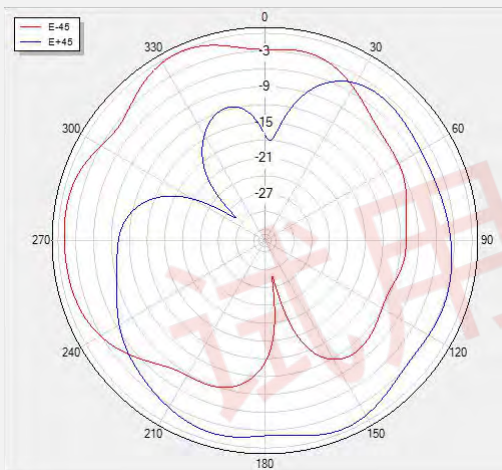
H Theta=90 freq=2400MHz



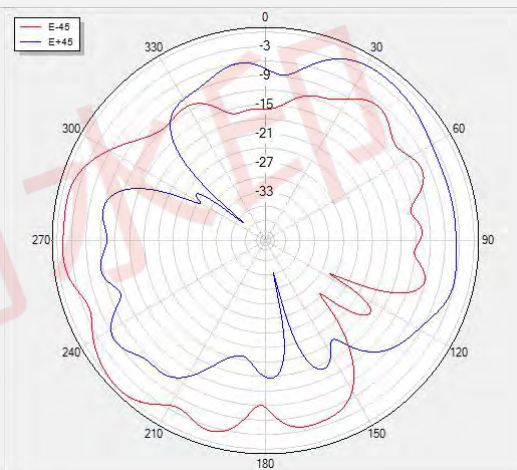
V Phi=90 freq=2400MHz



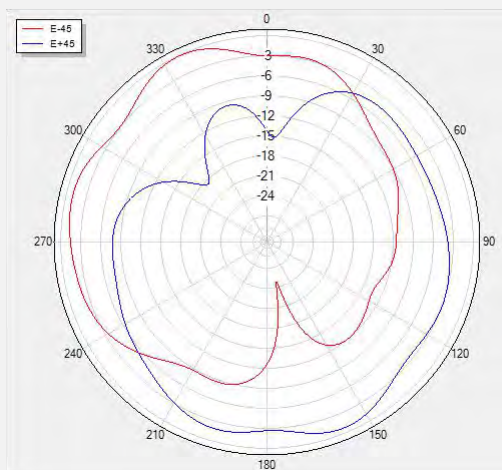
H Theta=90 freq=2450MHz



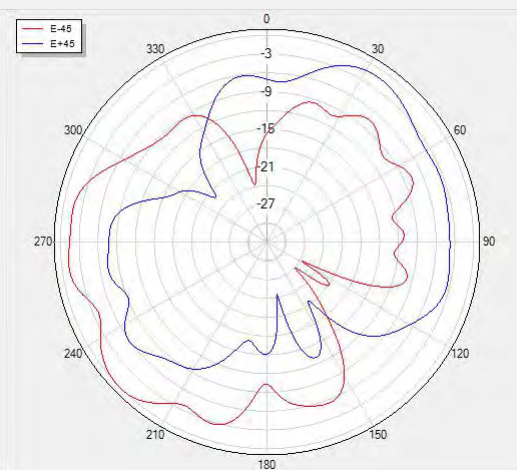
V Phi=90 freq=2450MHz



H Theta=90 freq=2500MHz

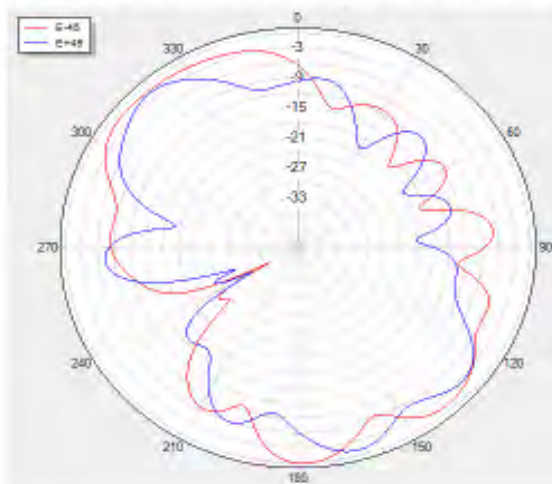


V Phi=90 freq=2500MHz

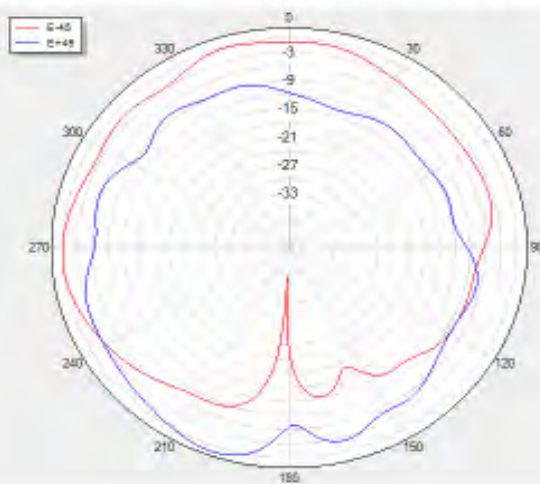


3.3 2D field BAND1 5150-5250MHz

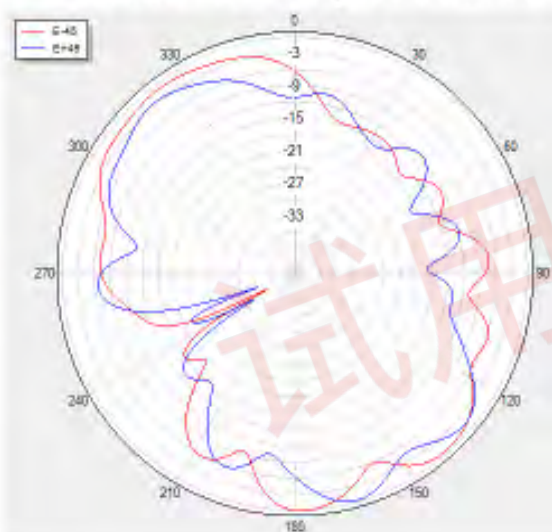
H Theta=90 freq=5140MHz



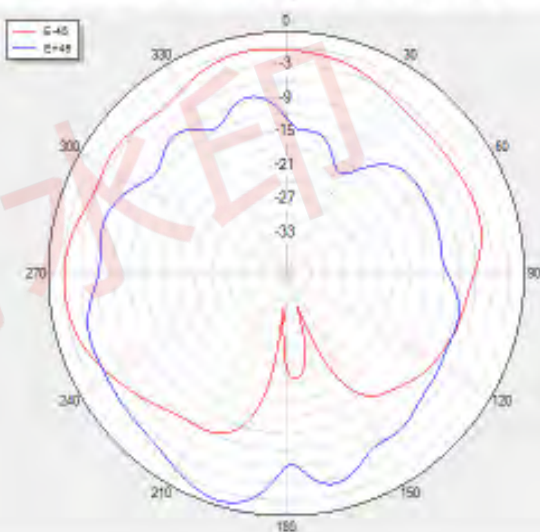
V Phi=0 freq=5140MHz



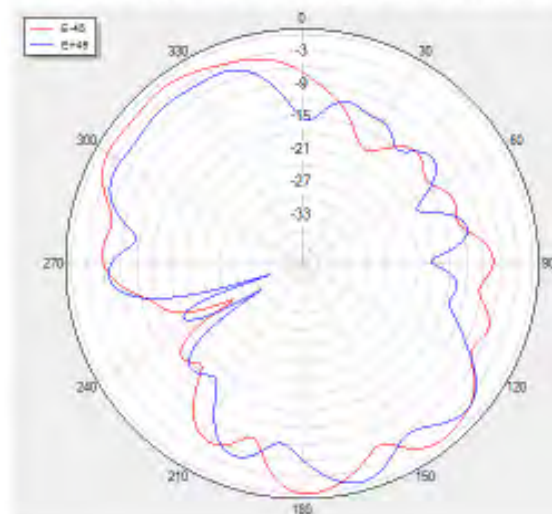
H Theta=90 freq=5200MHz



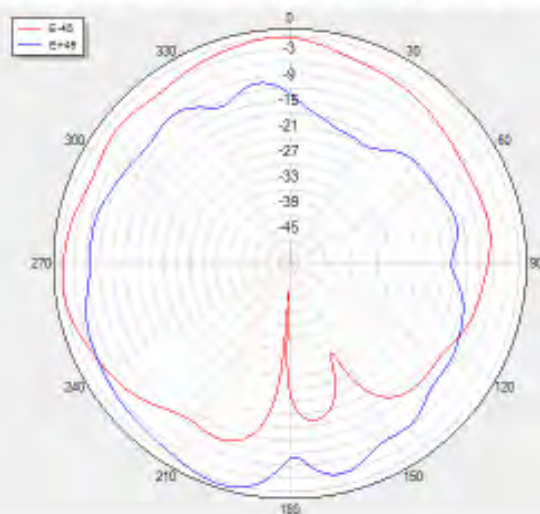
V Phi=0 freq=5200MHz



H Theta=90 freq=5260MHz

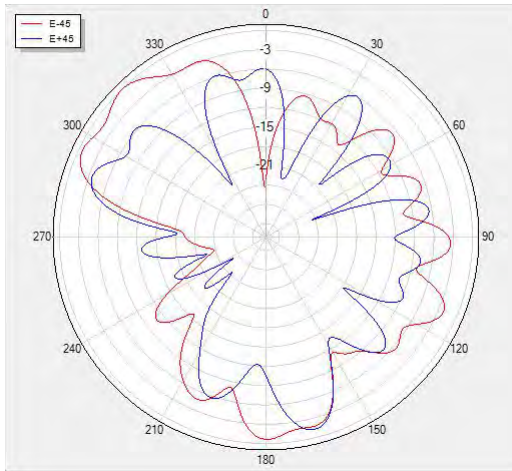


V Phi=0 freq=5260MHz

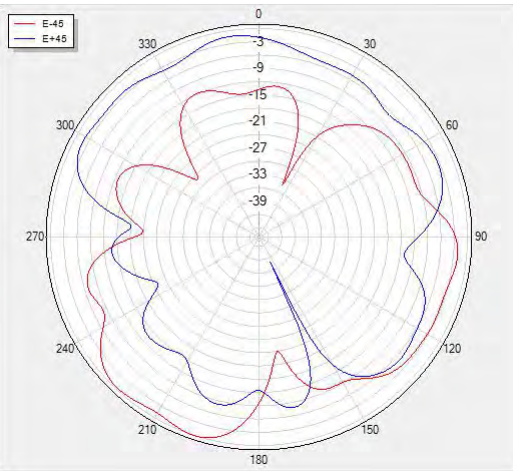


3.3 2D field 5.8G

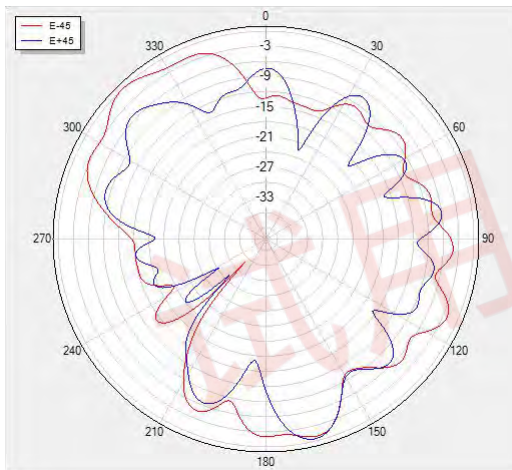
H Theta=90 freq=5700MHz



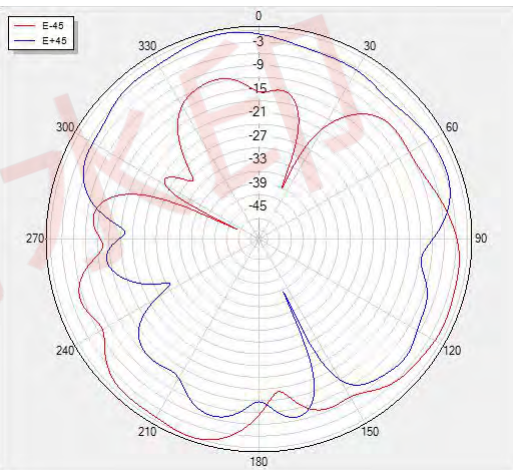
V Phi=90 freq=5700MHz



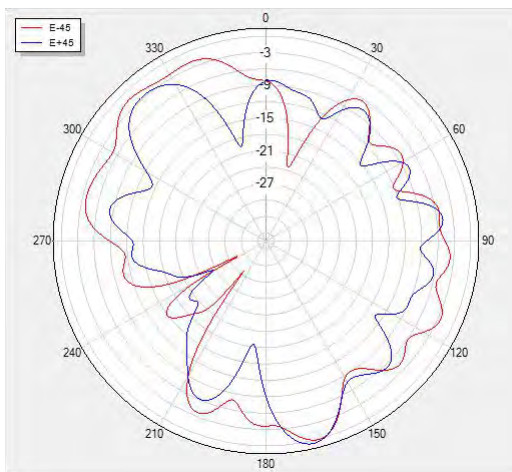
H Theta=90 freq=5800MHz



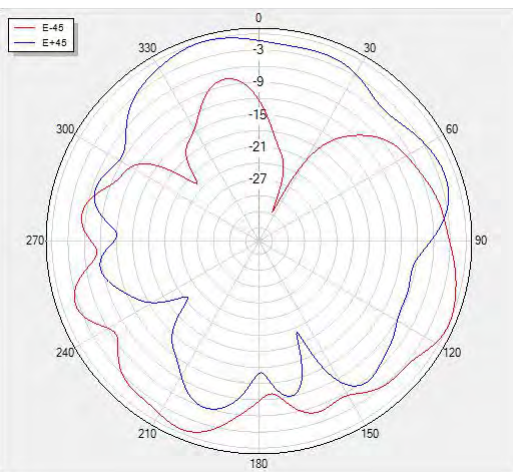
V Phi=90 freq=5800MHz



H Theta=90 freq=5900MHz



V Phi=90 freq=5900MHz



Gain&Efficiency			
frequency (Hz)	gain (dBi)	efficiency (dB)	efficiency
2400M	1.97	-2.27	59.34%
2410M	1.78	-2.21	60.18%
2420M	1.78	-2.17	60.68%
2430M	1.83	-2.05	62.31%
2440M	1.69	-2.13	61.17%
2450M	1.9	-2.07	62.14%
2460M	1.81	-2.23	59.88%
2470M	1.67	-2.23	59.78%
2480M	1.65	-2.29	58.95%
2490M	1.57	-2.42	57.26%
2500M	1.32	-2.53	55.91%

Gain&Efficiency 增益和效率				Gain&Efficiency 增益和效率			
frequency 频率(Hz)	gain 增益(dBi)	efficiency 效率(dB)	efficiency 效率	frequency 频率(Hz)	gain 增益(dBi)	efficiency 效率(dB)	efficiency 效率
5700M	2.53	-3.32	46.52%	5140M	2.91	-3.22	47.64%
5720M	2.39	-3.37	46%	5160M	2.71	-2.99	50.25%
5740M	3.13	-3.17	48.23%	5180M	2.54	-3.4	45.72%
5760M	2.23	-3.2	47.9%	5200M	2.43	-3.46	45.09%
5780M	2.89	-3.22	47.64%	5220M	1.98	-3.33	46.4%
5800M	2.71	-2.99	50.25%	5240M	2.47	-3.14	48.53%
5820M	2.54	-3.4	45.72%	5260M	2.18	-3.09	49.04%
5840M	2.43	-3.46	45.09%				
5860M	1.98	-3.33	46.4%				
5880M	2.47	-3.14	48.53%				
5900M	2.18	-3.09	49.04%				