

板载天线规格书

CUSTOMER NAME: 广州佳可

Ren Feng P/N: 印刷天线

VERSIONS:A

一、 天线尺寸

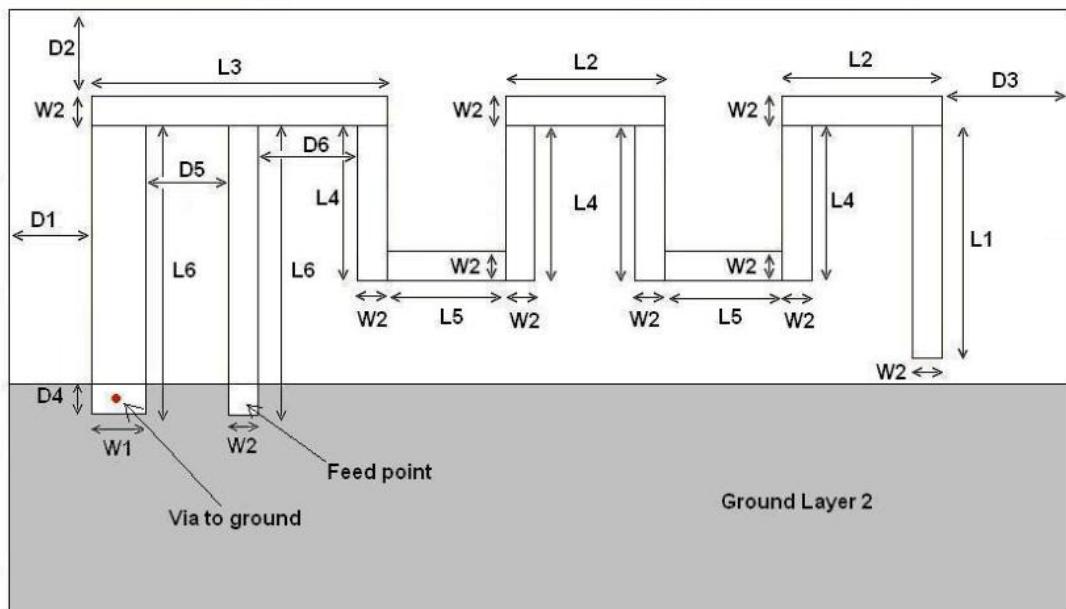
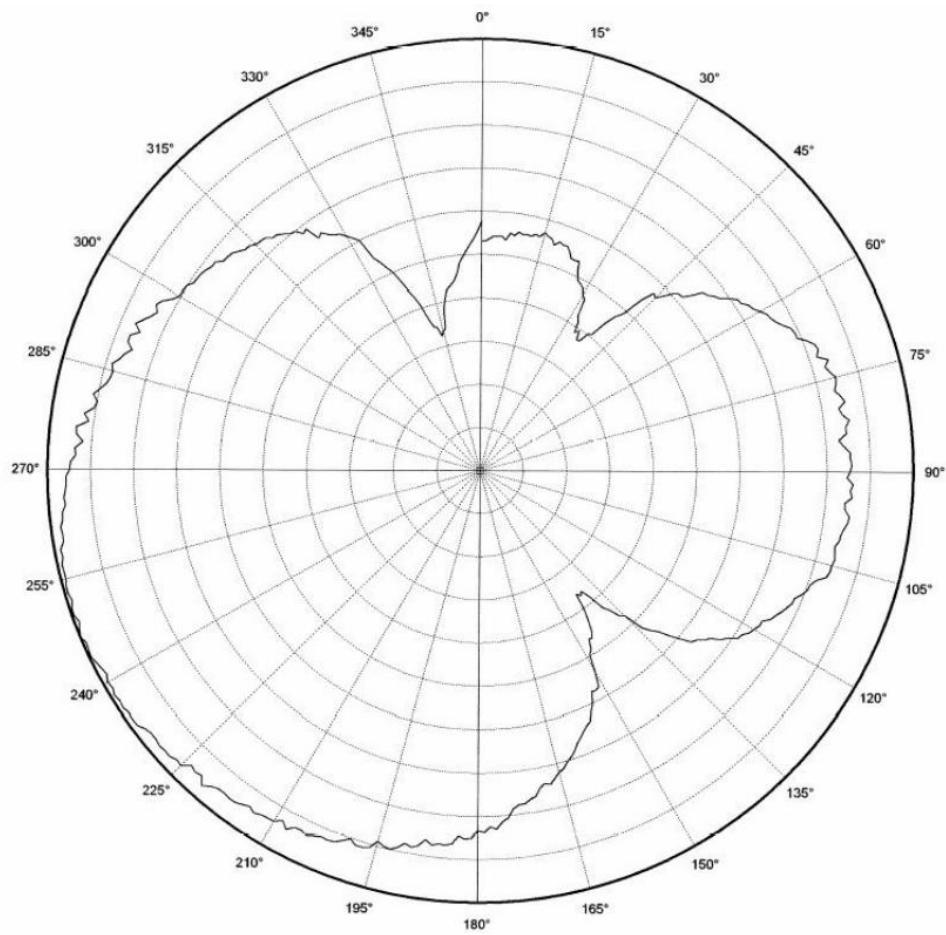


Figure 3: Antenna Dimensions

L1	3.94 mm
L2	2.70 mm
L3	5.00 mm
L4	2.64 mm
L5	2.00 mm
L6	4.90 mm
W1	0.90 mm
W2	0.50 mm
D1	0.50 mm
D2	0.30 mm
D3	0.30 mm
D4	0.50 mm
D5	1.40mm
D6	1.70 mm

Table 1: Antenna Dimensions

二、 增益方向图



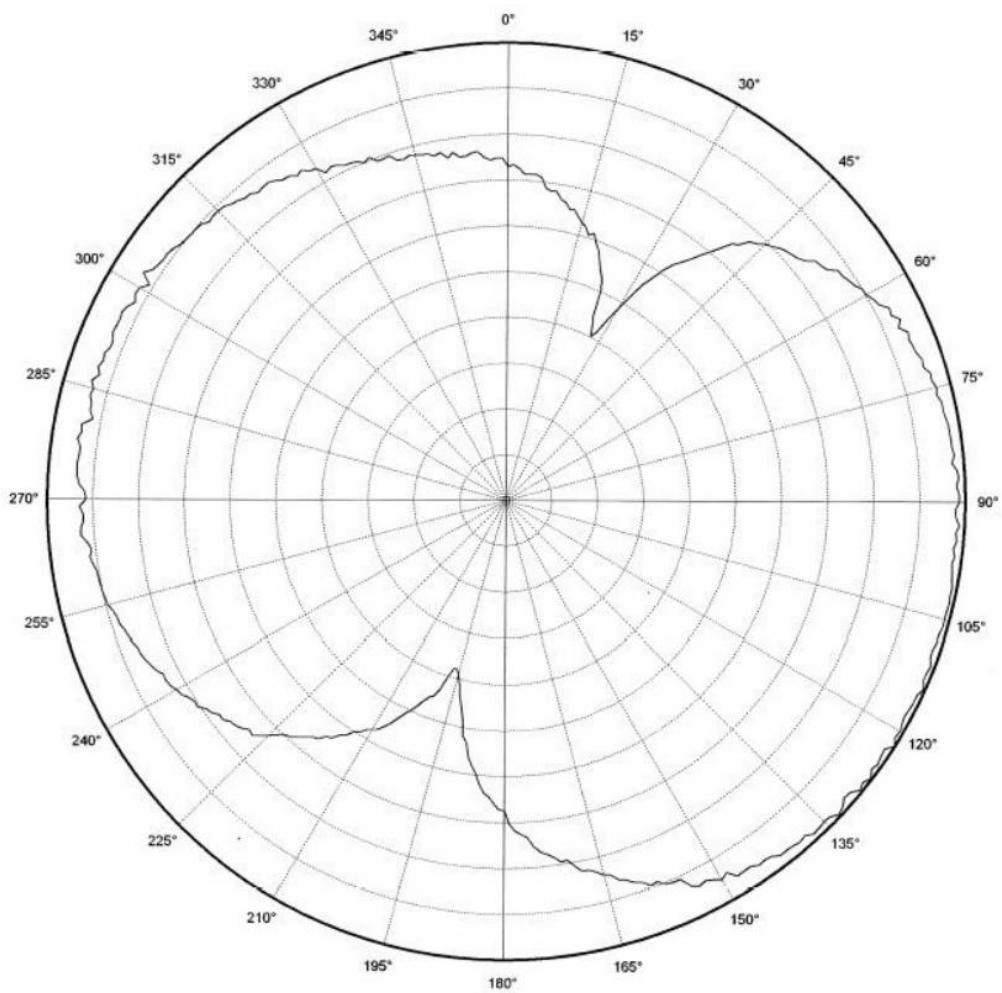
Vertical Polarization

usb XY

CF 2450.000 MHz

4 dB/ div

Ref Lev: -2.5 dBm



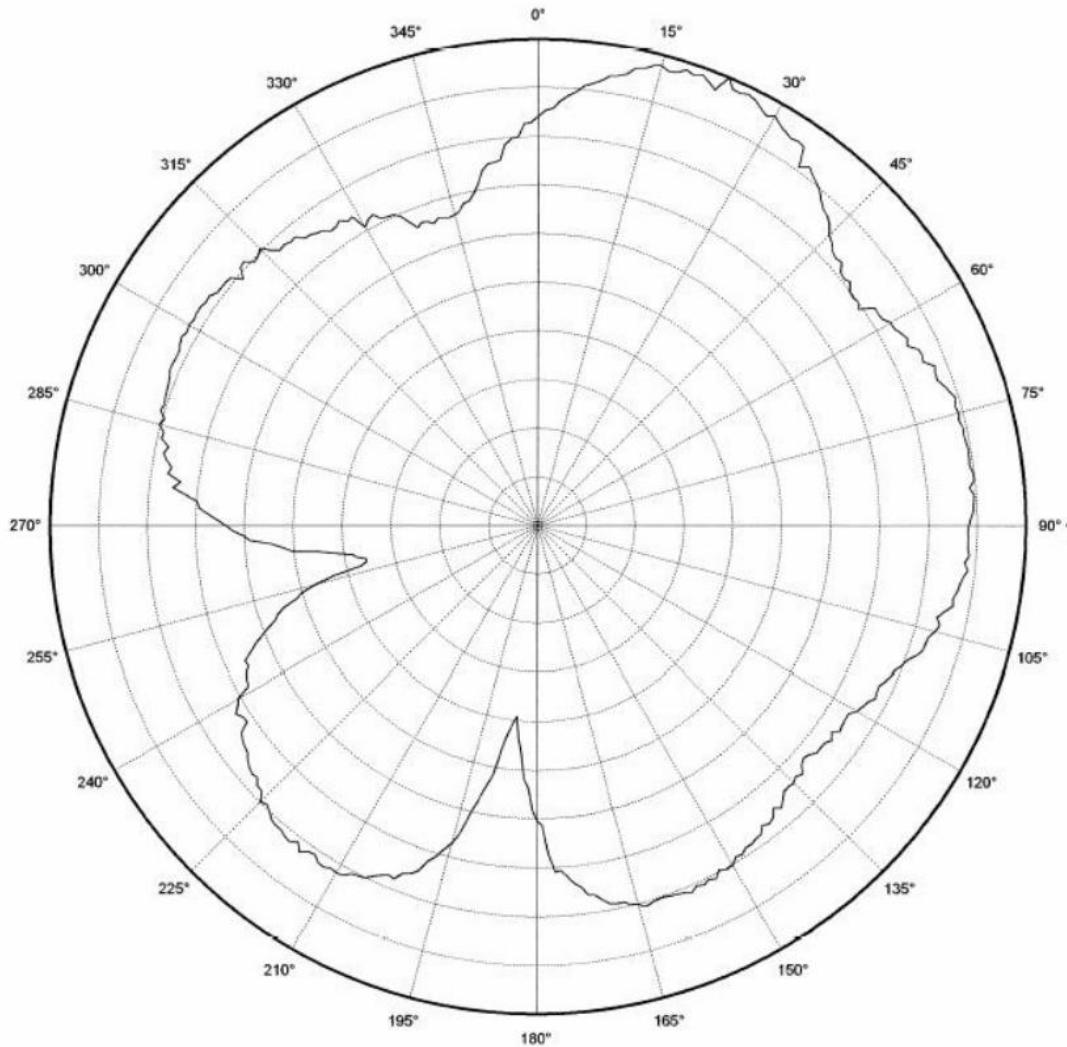
Horizontal Polarization

usb XY

CF 2450.000 MHz

5 dB/ div

Ref Lev: 4.5..... dBm



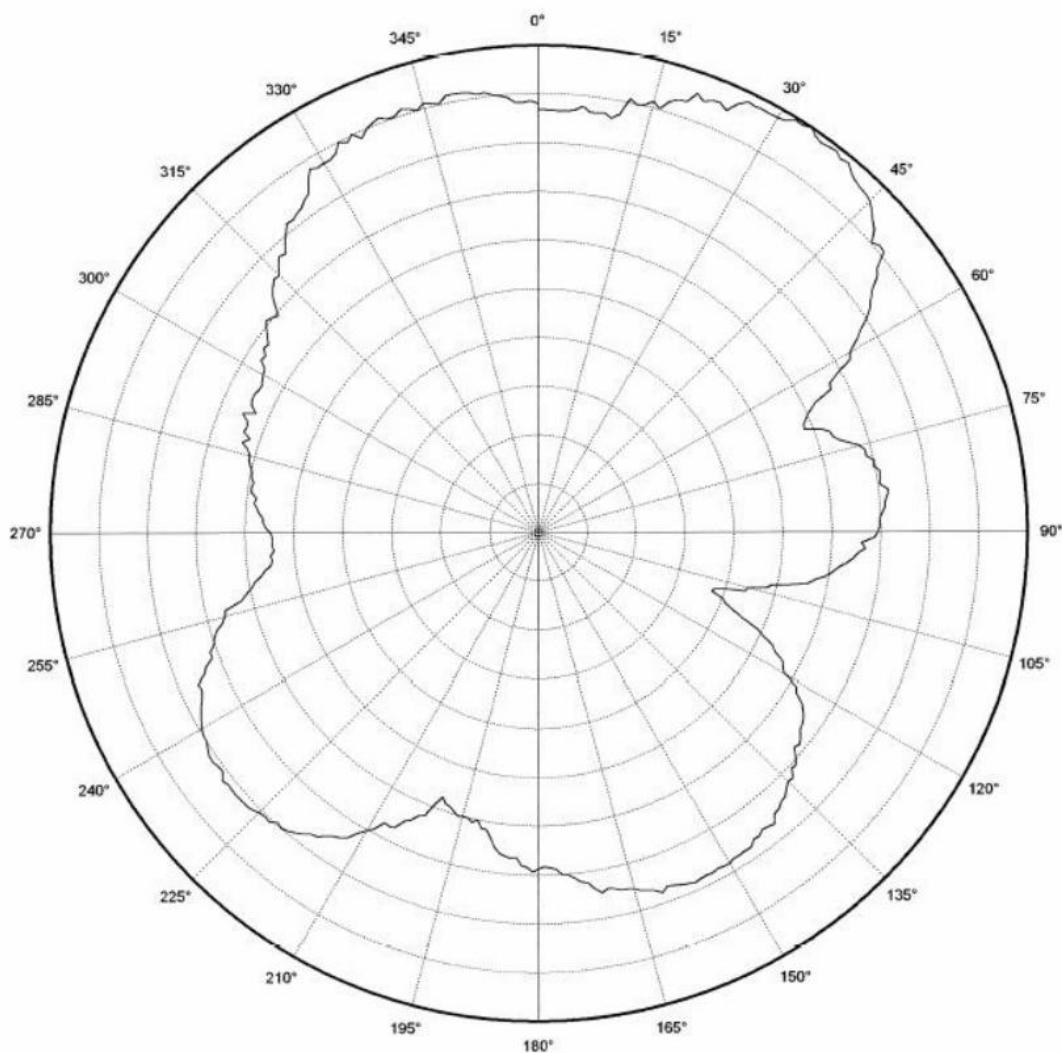
Vertical Polarization

usb XZ

CF 2450.000 MHz

4 dB/ div

Ref Lev: 2, 2 dBm



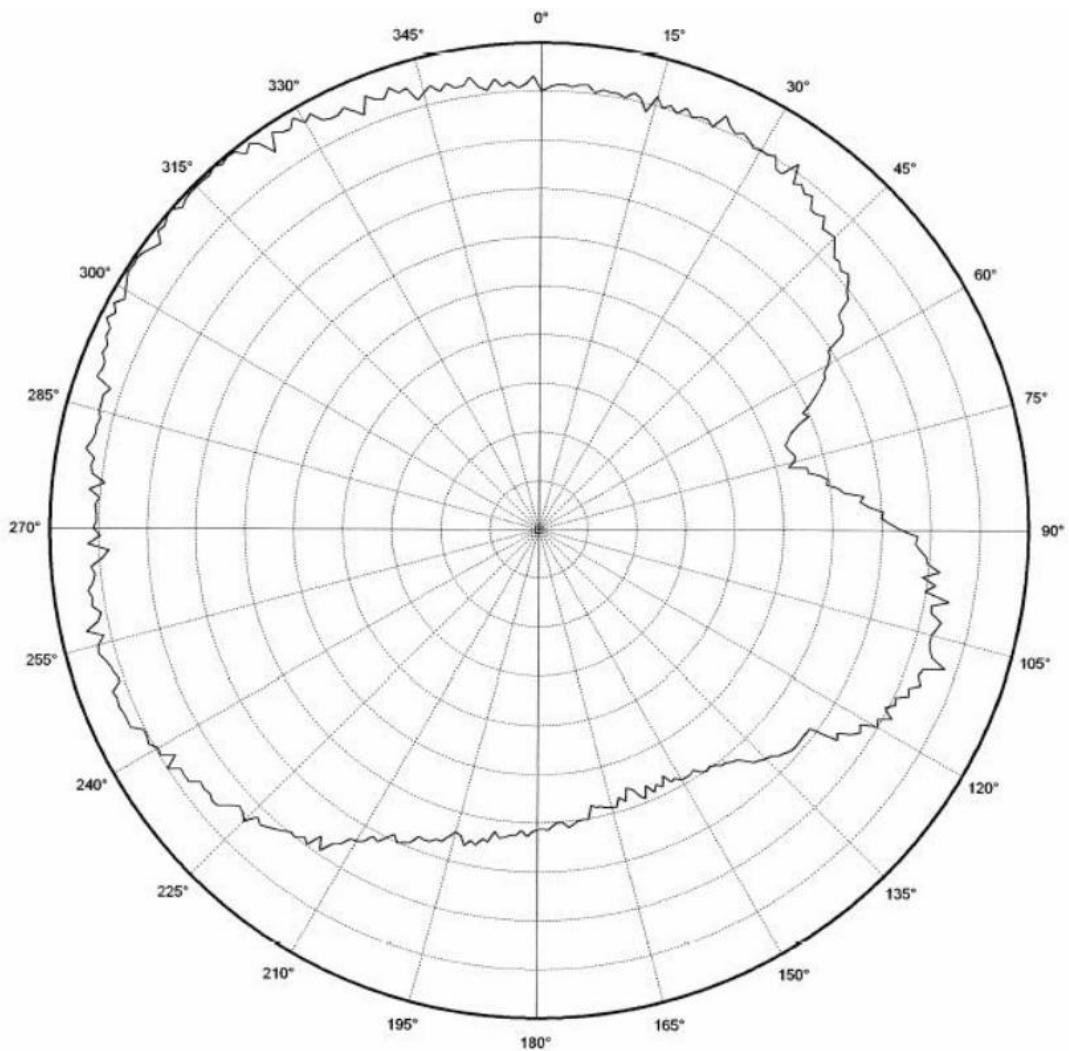
Horizontal Polarization

usb XZ

CF 2450.000 MHz

4 dB/ div

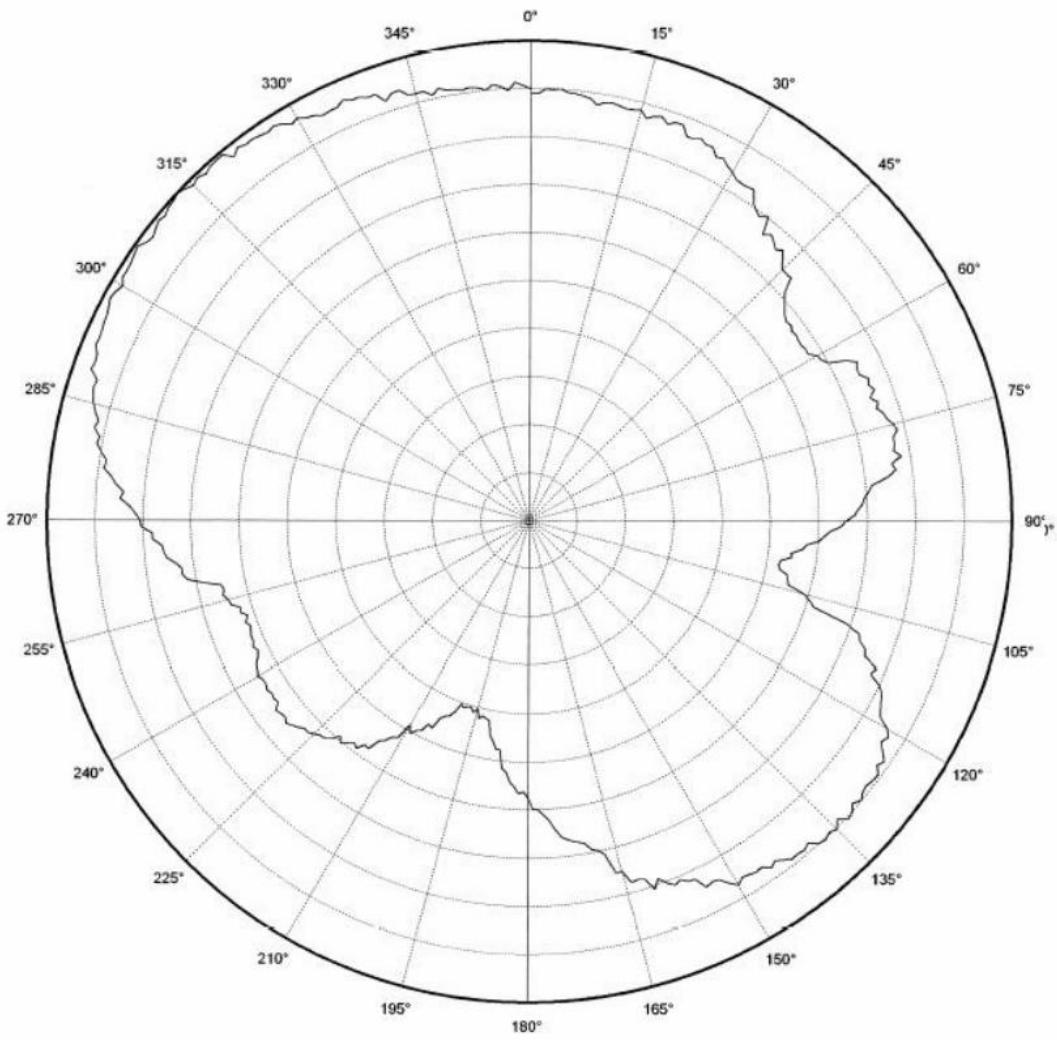
Ref Lev: 5.3 dBm



Vertical Polarization

usb YZ

CF 2450.000 MHz
2 dB/ div
Ref Lev: + $\sqrt{3}$ dBm



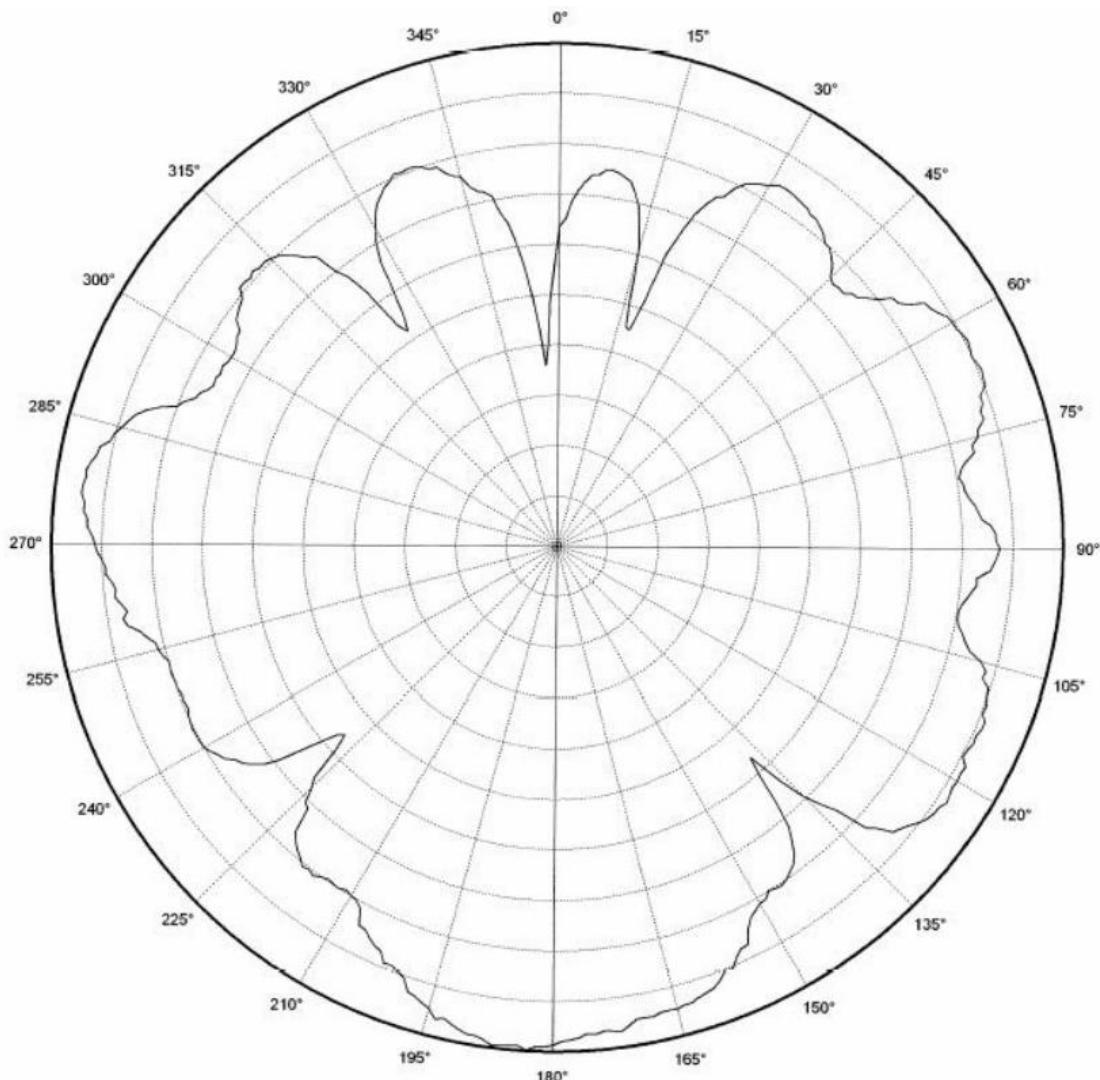
Horizontal Polarization

usb YZ

CF 2450.000 MHz

3 dB/ div

Ref Lev: -12 dBm



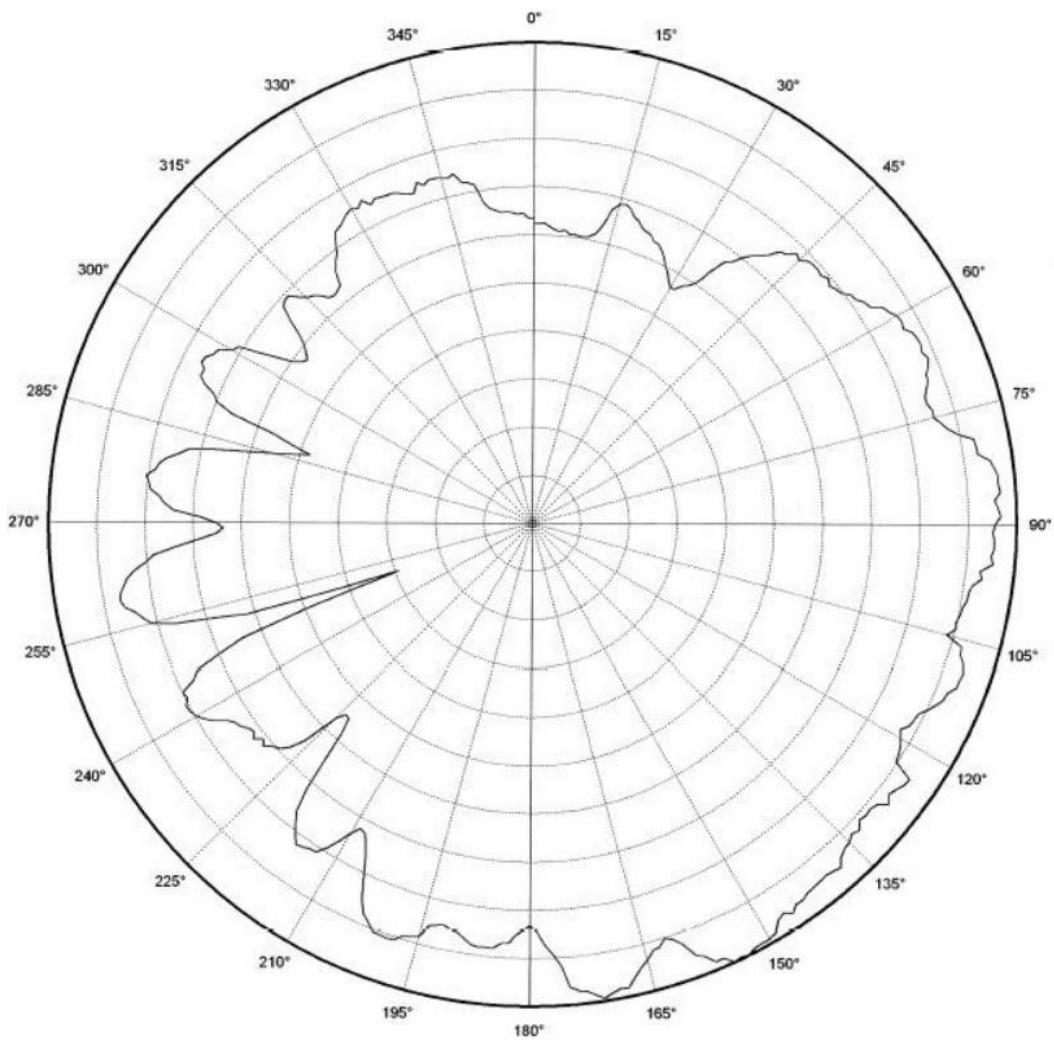
Vertical Polarization

Laptop USB XY

CF 2450.000 MHz

5 dB/ div

Ref Lev: -2.0 dBm



Horisontal Polarization

Laptop USB XY

CF 2450.000 MHz

4 dB/ div

Ref Lev: 3.3 dBm

三、Efficiency&Gain

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Point Values											
Ant. Port Input Pwr. (dBm)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tot. Rad. Pwr. (dBm)	-13.13	-13.46	-13.76	-13.62	-13.64	-13.91	-13.93	-13.97	-14.17	-13.86	-13.96
Peak EIRP (dBm)	-8.31	-8.36	-8.36	-8.02	-8.07	-8.40	-8.47	-8.85	-9.53	-9.40	-9.65
Directivity (dBi)	4.82	5.10	5.40	5.60	5.57	5.51	5.46	5.13	4.64	4.46	4.31
Efficiency (dB)	-13.13	-13.46	-13.76	-13.62	-13.64	-13.91	-13.93	-13.97	-14.17	-13.86	-13.96
Efficiency (%)	4.90	4.50	4.20	4.30	4.30	4.10	4.00	4.00	3.80	4.10	4.00
Gain (dBi)	-8.31	-8.36	-8.36	-8.02	-8.07	-8.40	-8.47	-8.85	-9.53	-9.40	-9.65
NHPRP ±Pi/4 (dBm)	-13.75	-13.84	-13.88	-13.57	-13.64	-13.91	-13.94	-14.18	-14.75	-14.51	-14.66
NHPRP ±Pi/6 (dBm)	-15.05	-15.12	-15.14	-14.83	-14.91	-15.18	-15.22	-15.46	-16.04	-15.79	-15.94
NHPRP ±Pi/8 (dBm)	-16.03	-16.08	-16.10	-15.80	-15.90	-16.19	-16.24	-16.49	-17.07	-16.80	-16.94
Upper Hem. PRP (dBm)	-15.88	-16.18	-16.45	-16.27	-16.25	-16.50	-16.49	-16.53	-16.71	-16.37	-16.45
Lower Hem. PRP (dBm)	-16.42	-16.78	-17.12	-17.03	-17.10	-17.39	-17.45	-17.49	-17.70	-17.43	-17.56
Upper Hem. PRP (%)	2.59	2.41	2.27	2.36	2.37	2.24	2.24	2.22	2.13	2.31	2.26
Lower Hem. PRP (%)	2.28	2.10	1.94	1.98	1.95	1.83	1.80	1.78	1.70	1.81	1.76

