

ANTENNA SPECIFICATION

Antenna description:

Manufacturer Name	Xchart, Inc.
Manufacturer Address	304 W Pacific Ave. Suite #210, Spokane, WA 99201 United States
Antenna plate	PCB antenna
Model name	2.4G MIFA ANT
Antenna gain	+5.3 dBi
Frequency range	2.4 GHz - 2.483 GHz
Connector type	Direct
Dimensions	15.2 mm x 5.7 mm

Antenna Dimensions:

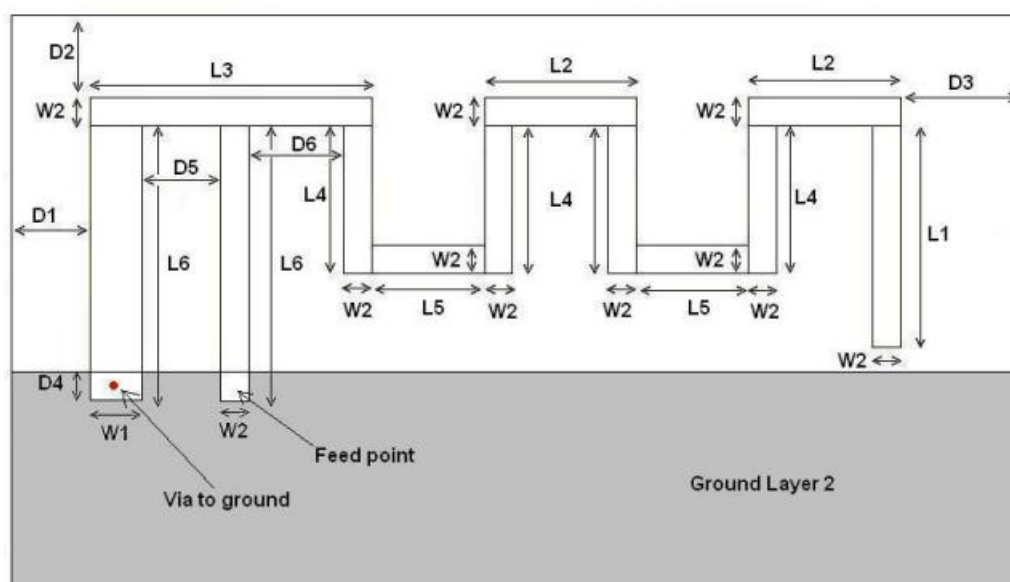


Figure 3: Antenna Dimensions

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

Radiation Pattern Orientation:

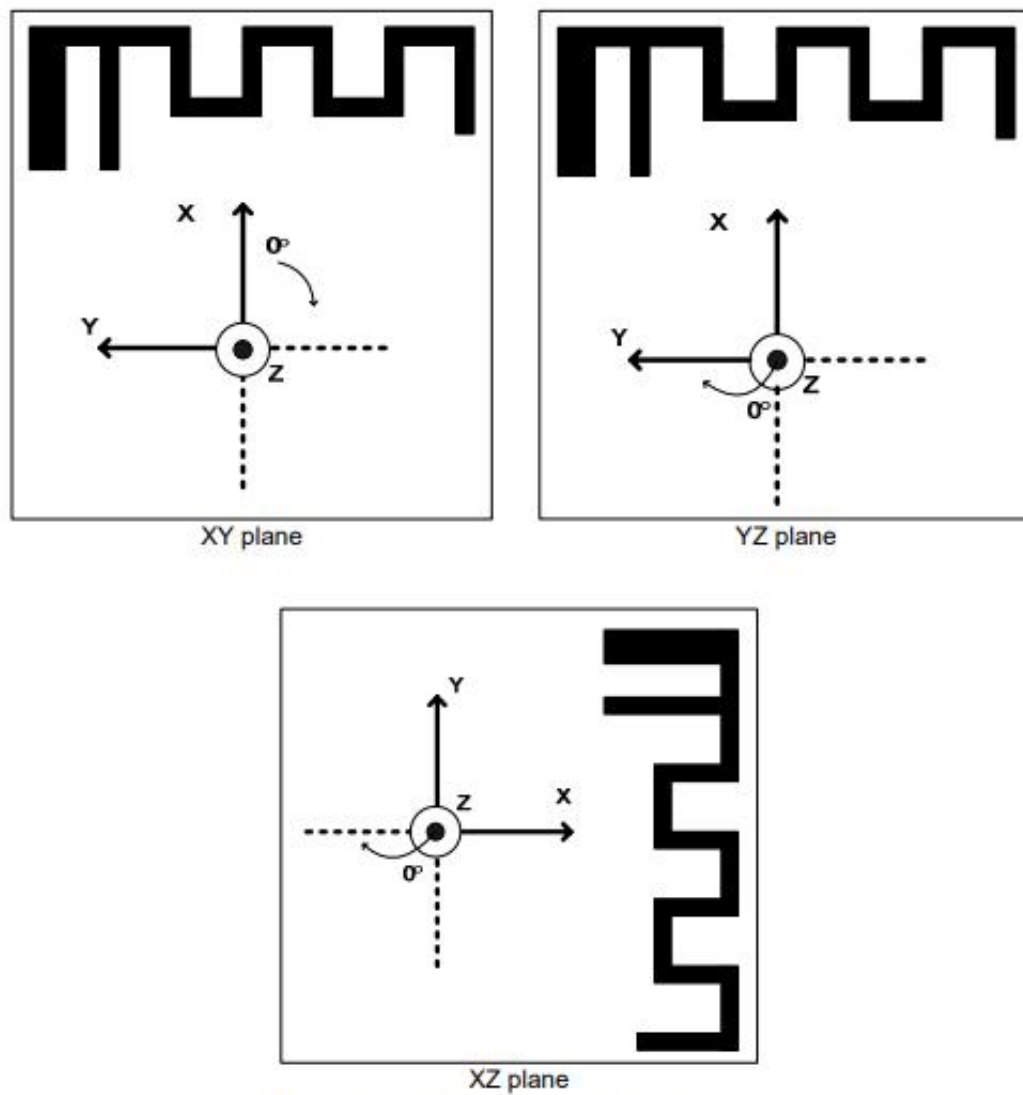


Figure 6: How to Relate the Antenna to the Radiation Patterns

Radiation Pattern:

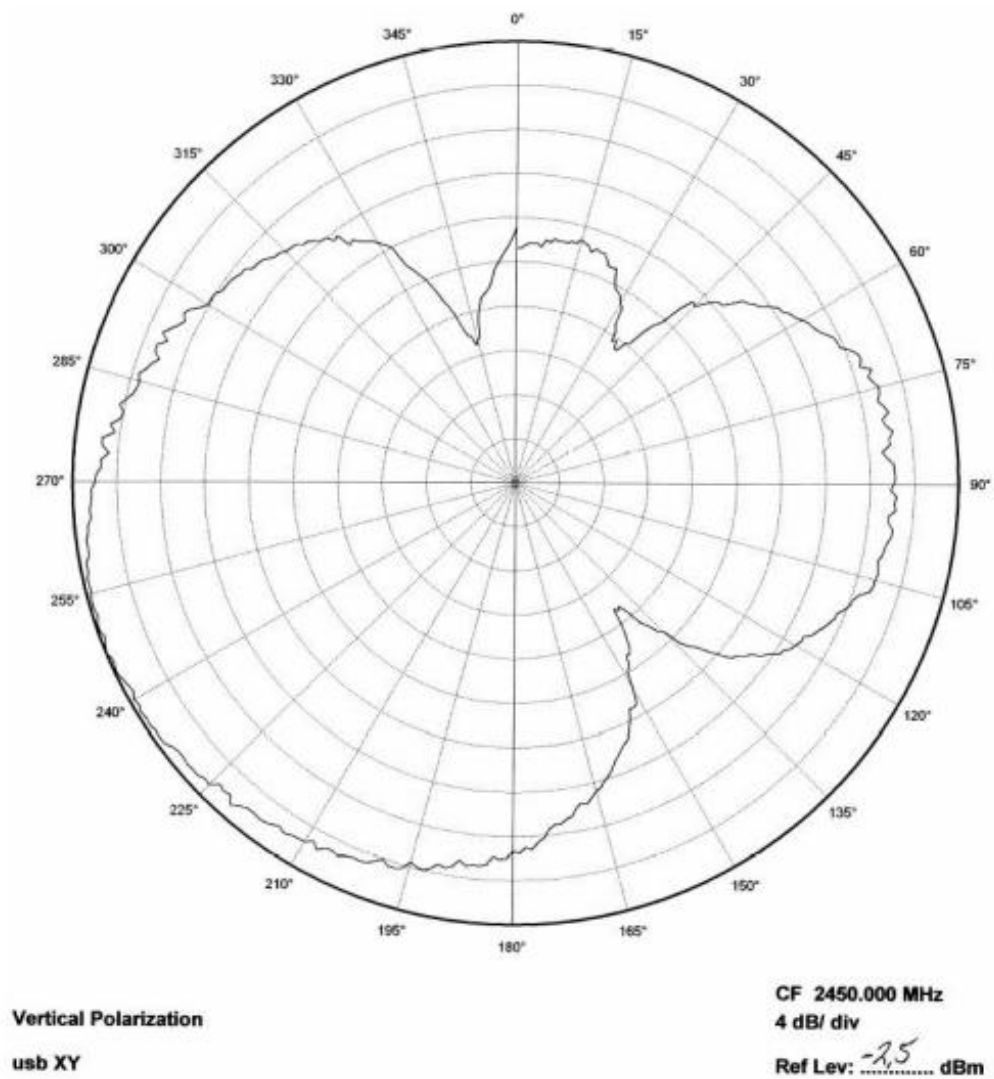


Figure 7: USB Dongle XY Plane

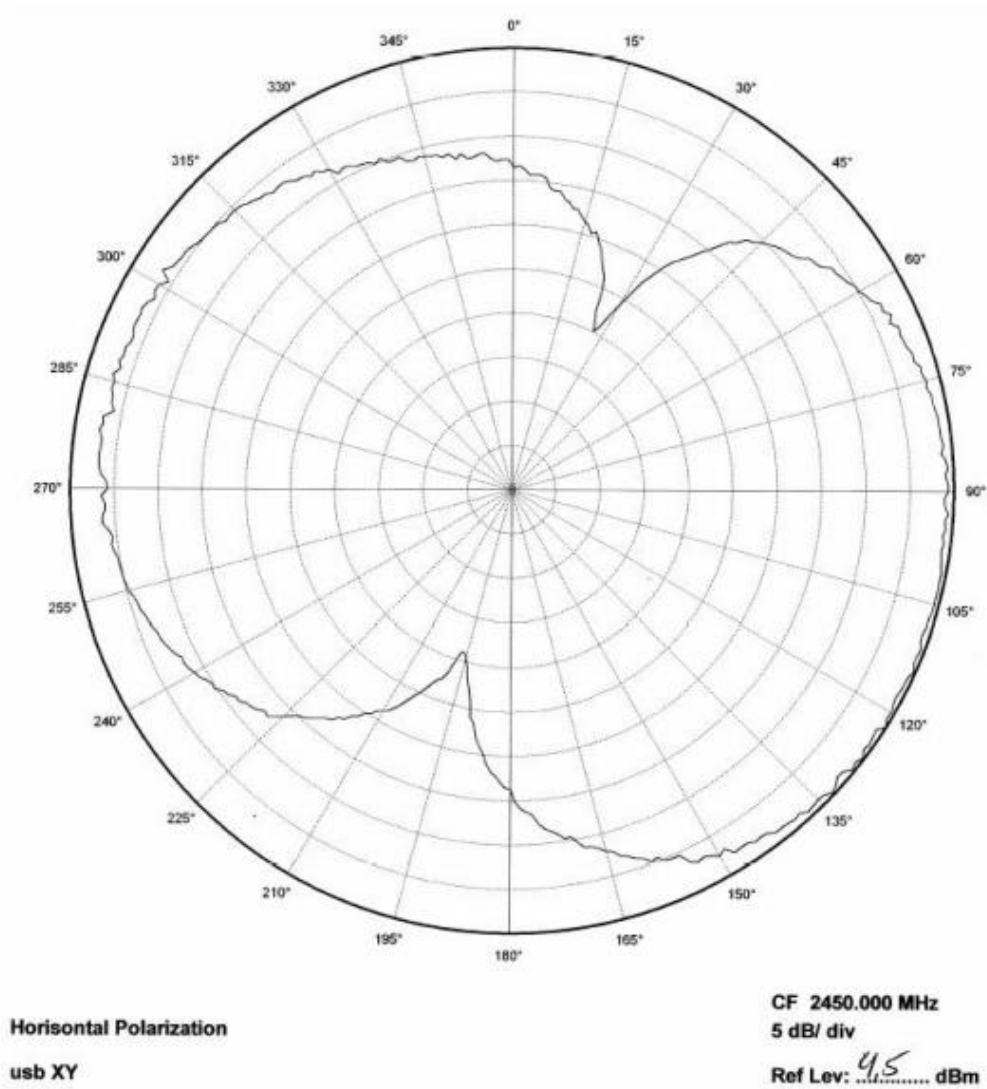


Figure 8: USB Dongle XY Plane

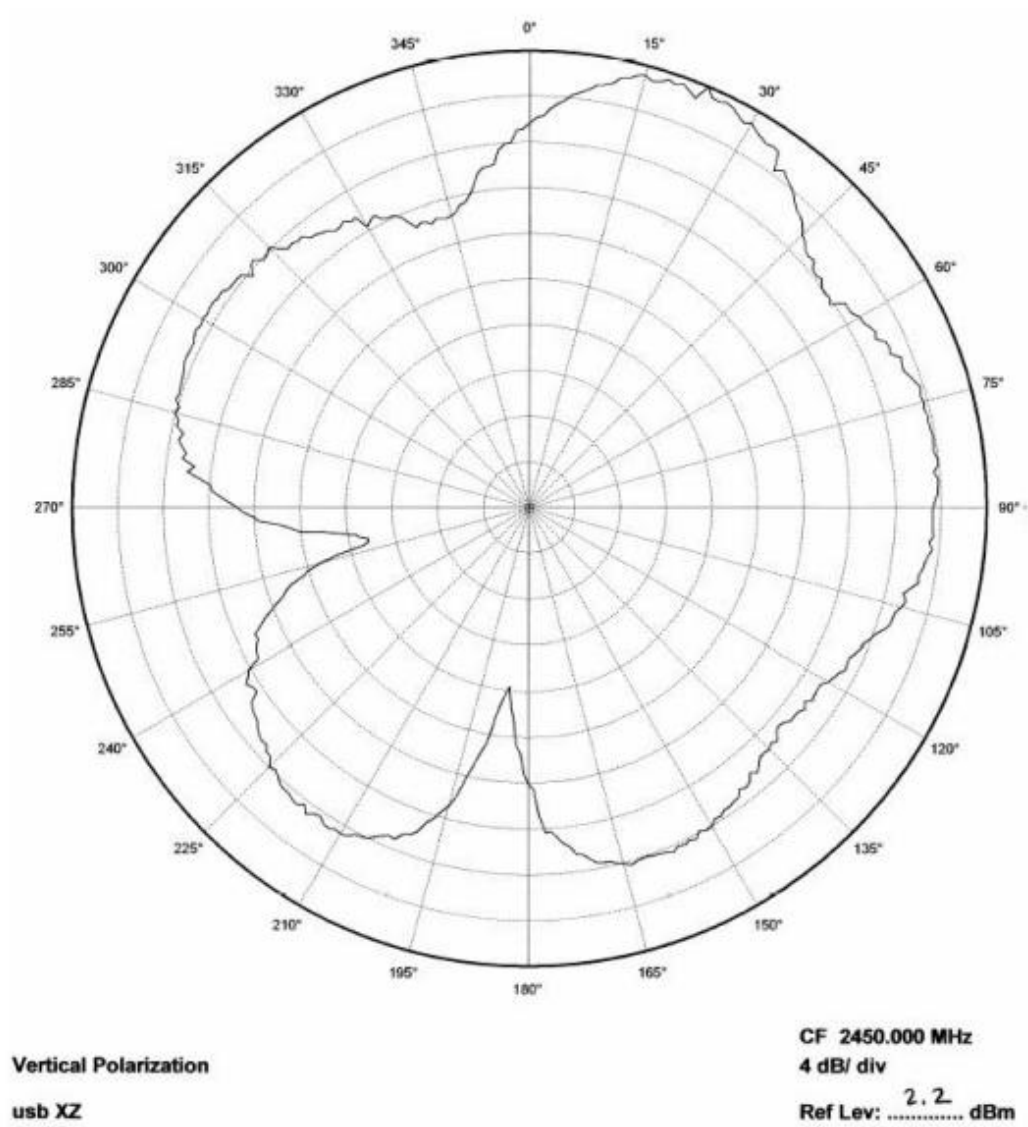


Figure 9: USB Dongle XZ Plane

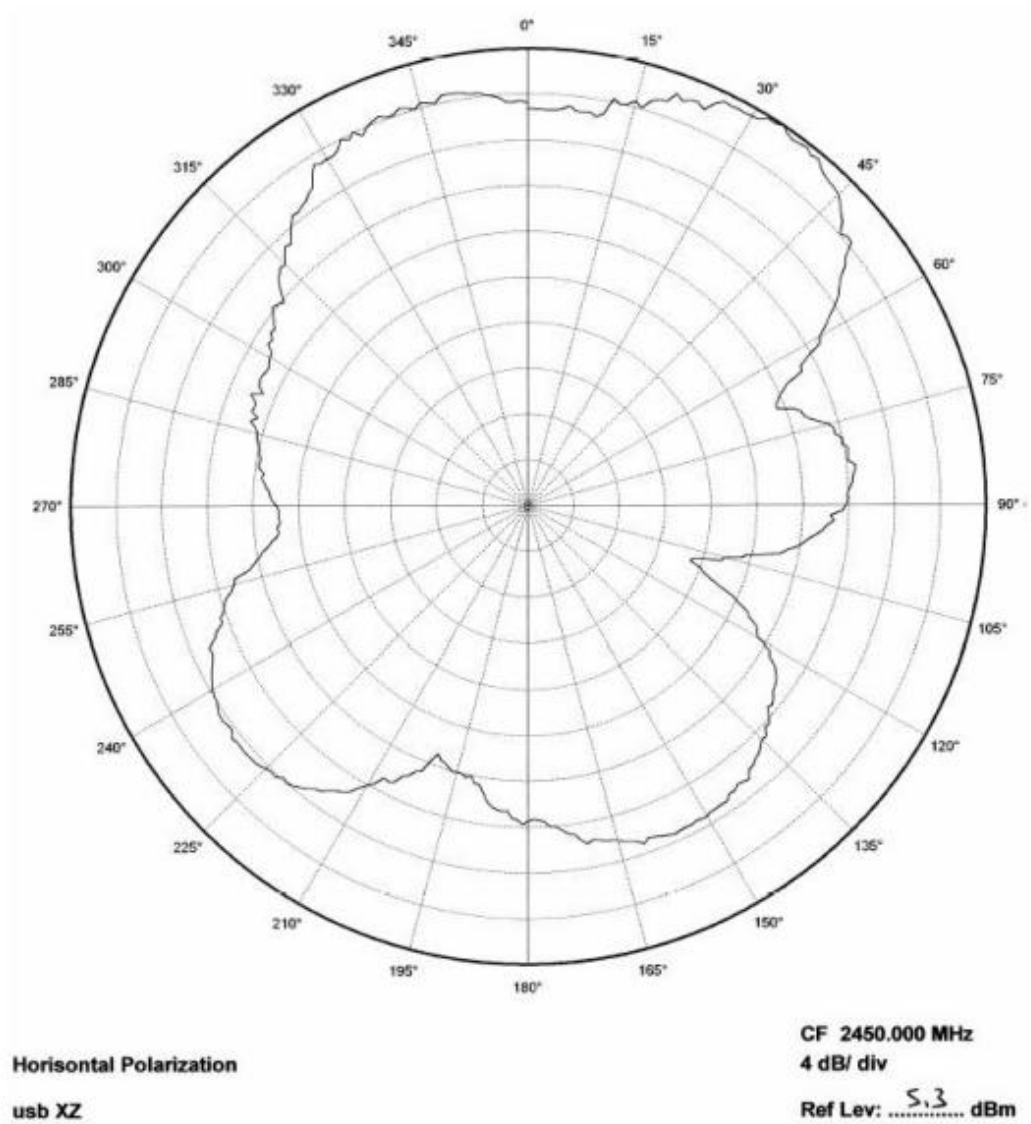
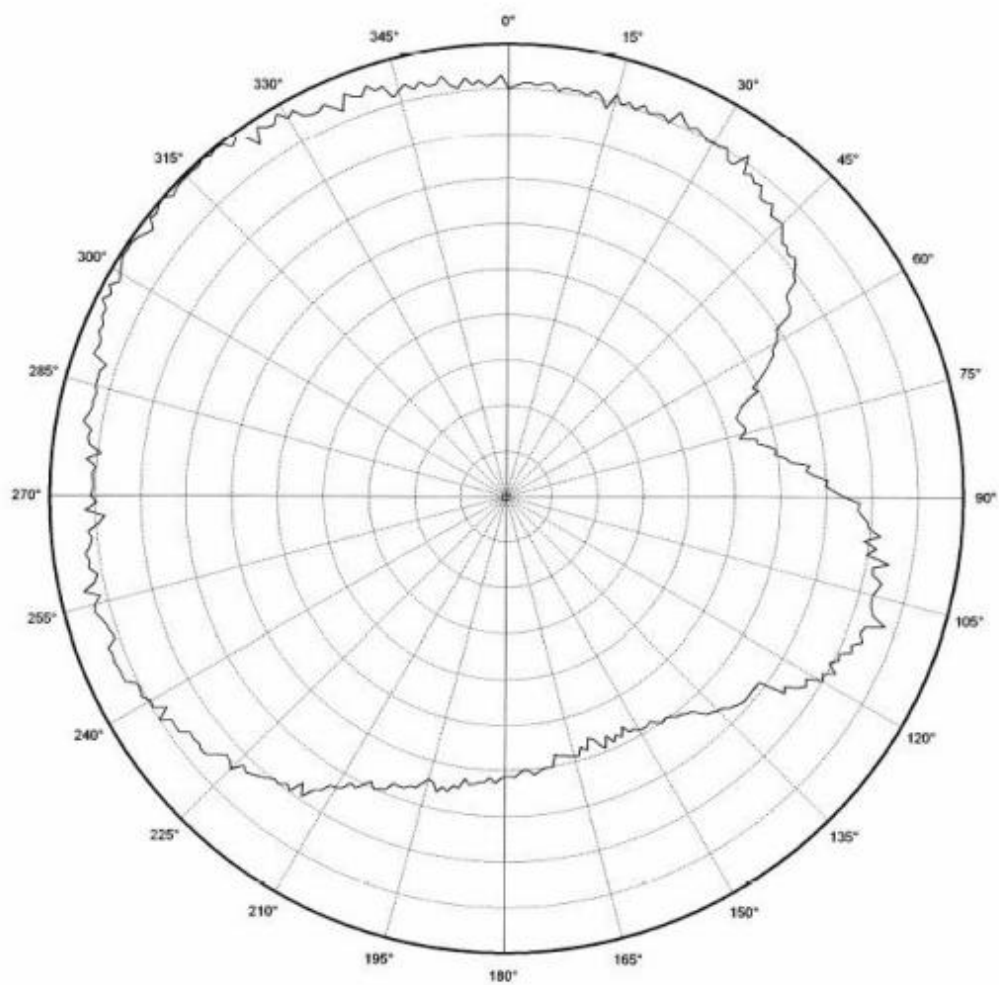


Figure 10: USB Dongle XZ Plane



Vertical Polarization

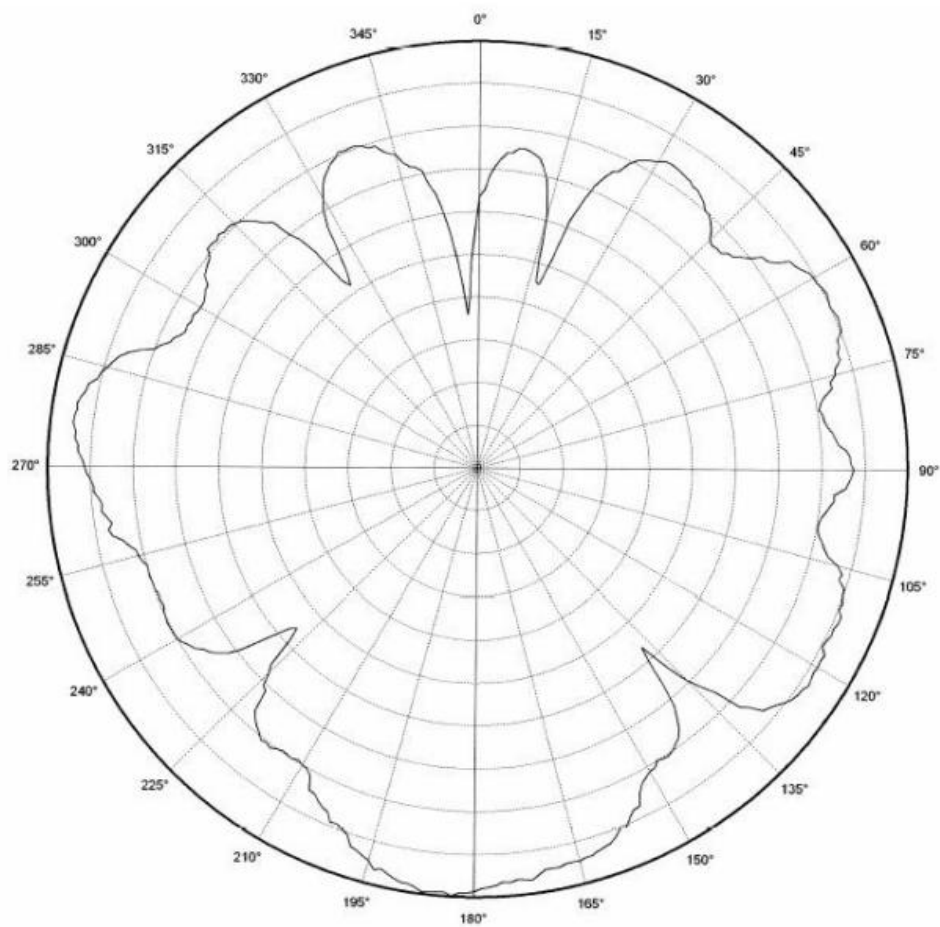
usb YZ

CF 2450.000 MHz

2 dB/ div

Ref Lev: +5.3 dBm

Figure 11: USB Dongle YZ Plane



Vertical Polarization
Laptop USB XY

CF 2450.000 MHz
5 dB/ div
Ref Lev: -20 dBm

Figure 13: in Laptop XY Plane

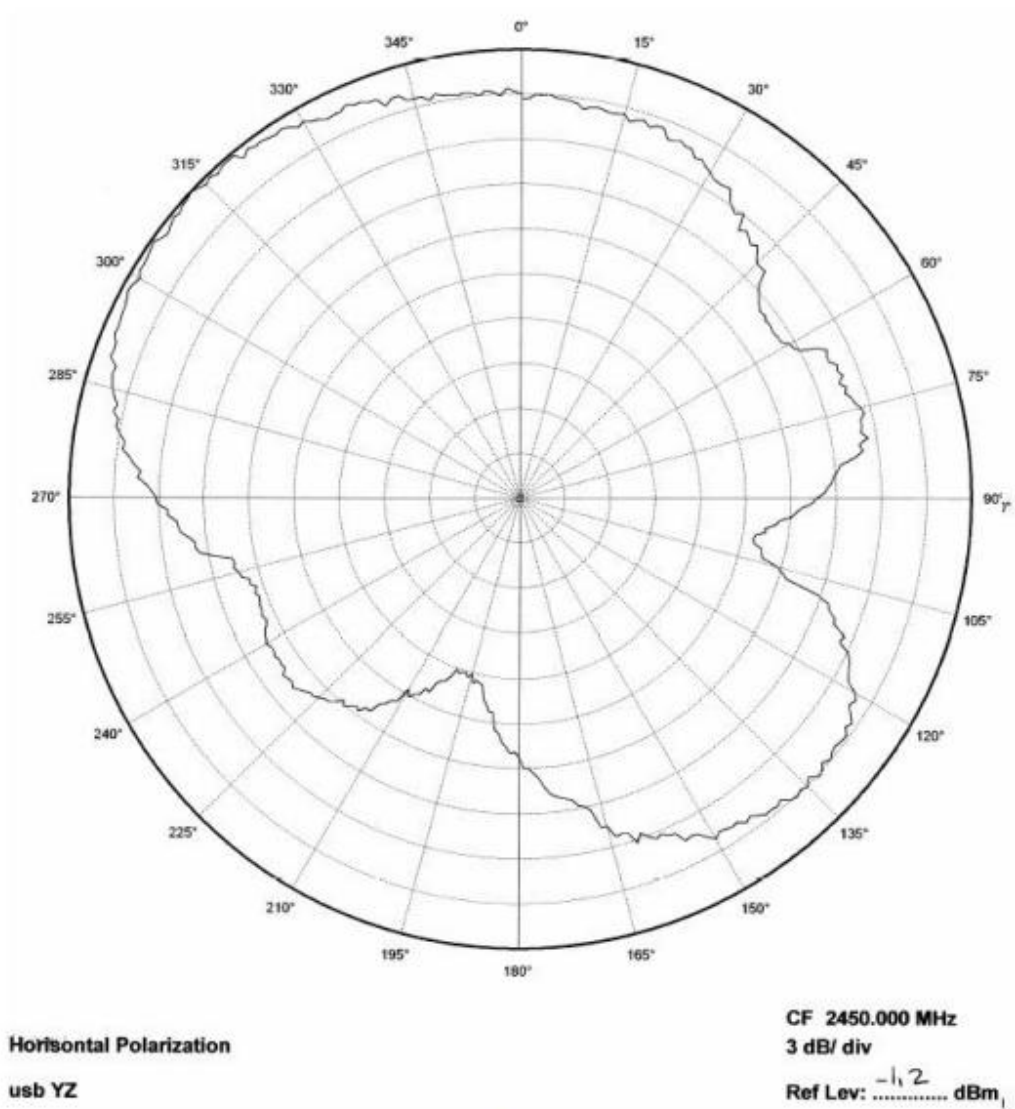
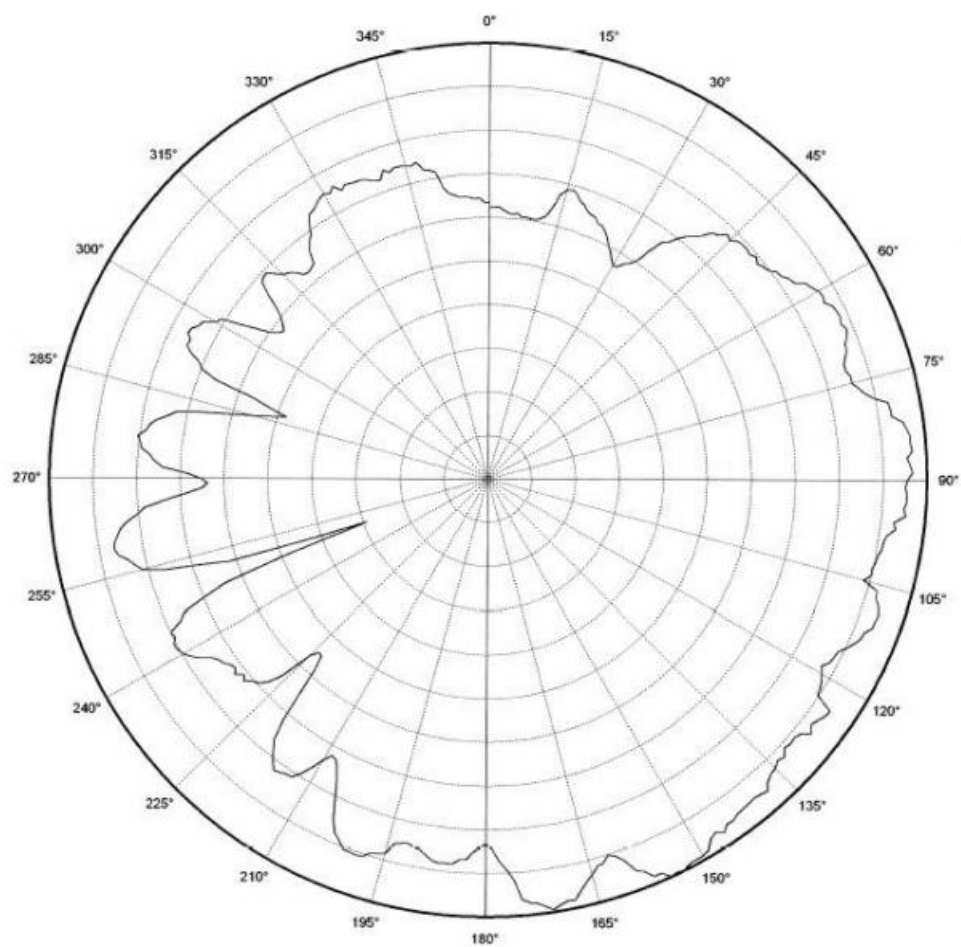


Figure 12: USB Dongle YZ Plane



Horizontal Polarization
Laptop USB XY

CF 2450.000 MHz
4 dB/ div
Ref Lev: 3.3 dBm

Figure 14: in Laptop XY Plane