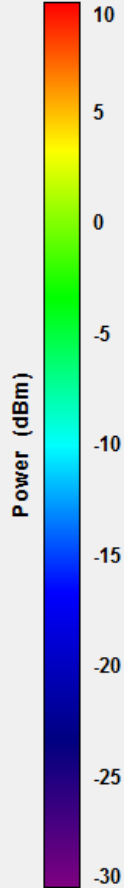
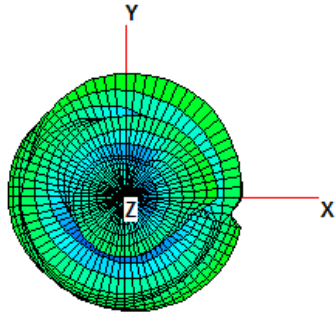


# Wireless Nano Dongle Antenna Pattern

# PAR2452 3D/2D Radiation Pattern (Dongle天線\_0dBm)

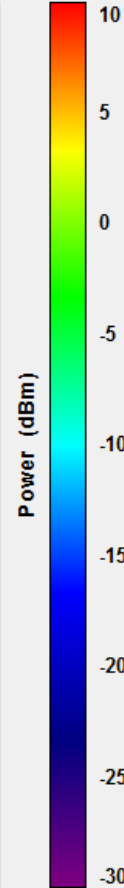
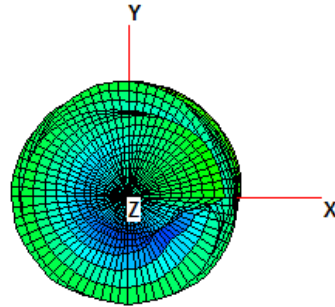
2402MHz\_0dBm

Azimuth = 0.0  
Elevation = 0.0  
Roll = 0.0



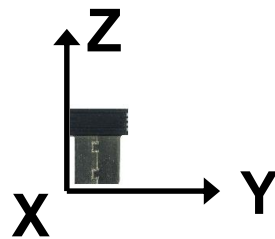
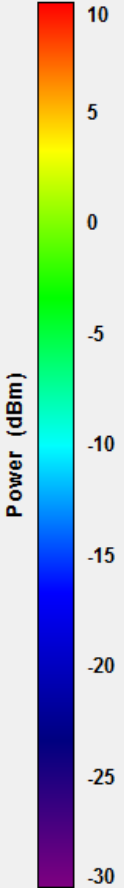
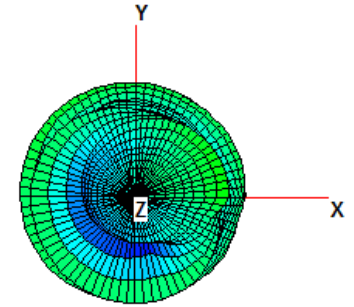
2440MHz\_0dBm

Azimuth = 0.0  
Elevation = 0.0  
Roll = 0.0

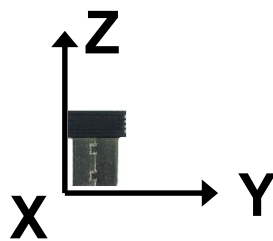
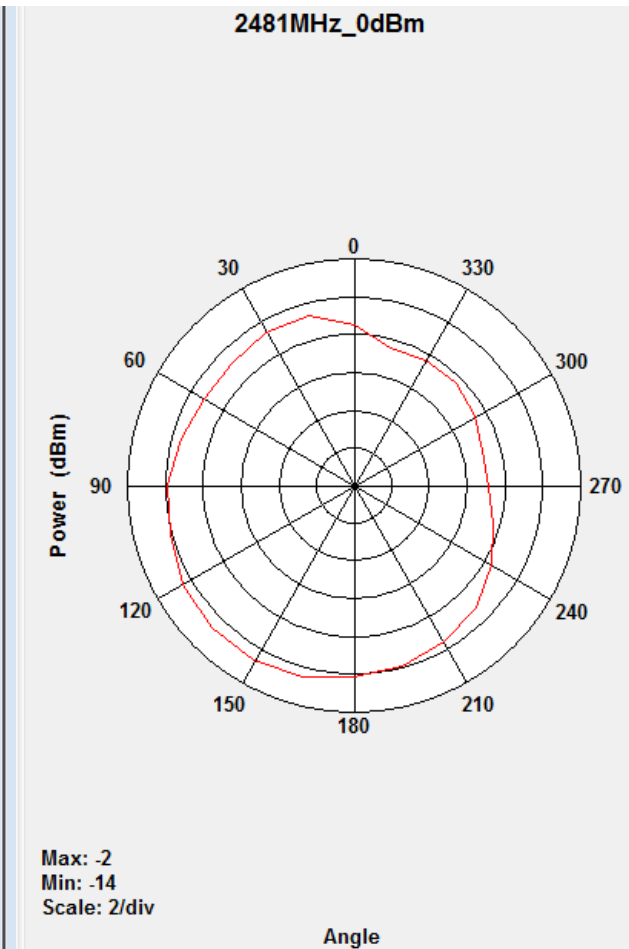
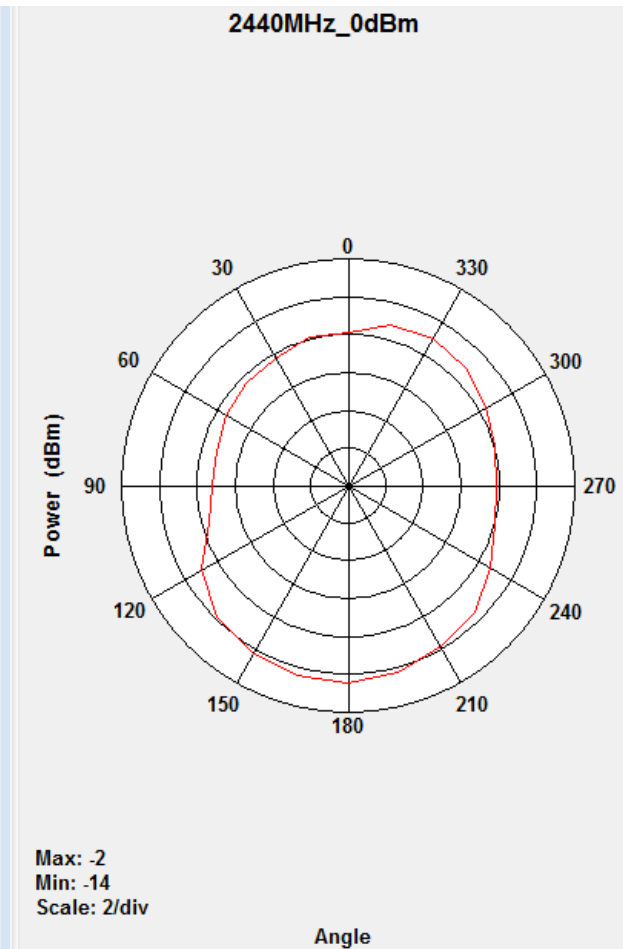
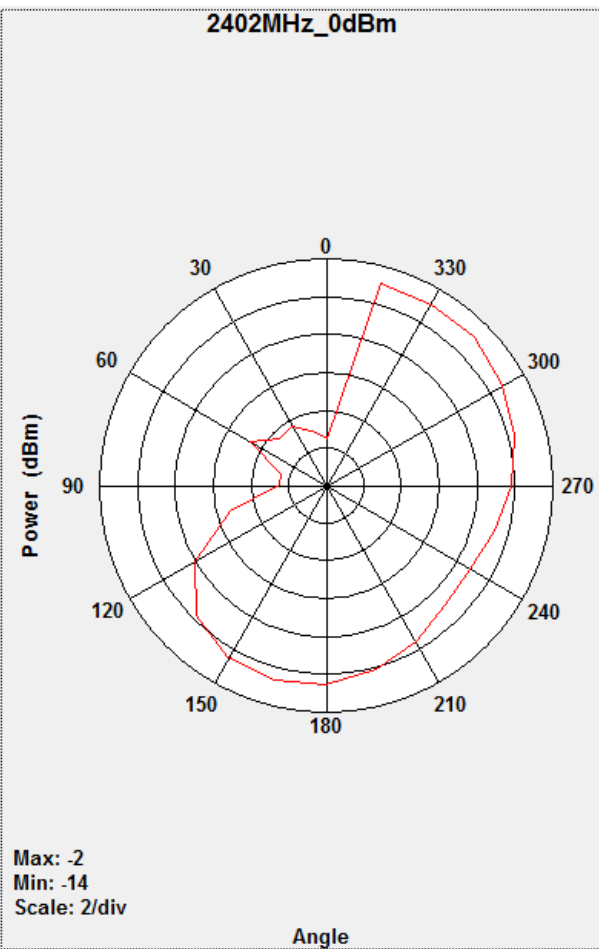


2481MHz\_0dBm

Azimuth = 0.0  
Elevation = 0.0  
Roll = 0.0



# PAR2452 3D/2D Radiation Pattern (Dongle天線\_0dBm)



# Comparison Table

Device Type	USB Dongle		
Test / Position	TRP/ FS		
Freq	2402	2440	2481
<b>Tot. Rad. Pwr. (dBm)</b>	<b>-3.9</b>	<b>-3.8</b>	<b>-4.1</b>
<b>Peak EIRP (dBm)</b>	<b>3.8</b>	<b>3.7</b>	<b>3.5</b>
Directivity (dBi)	7.7	7.5	7.6
Efficiency (dB)	-3.9	-3.8	-4.1
Efficiency (%)	41.0	42.1	39.3
Gain (dBi)	3.8	3.7	3.5
Note	Power Setting : 0 dBm		

Antenna Designation: PCB Antenna  
 AntennaGain (dBi): 3.8dBi Operation  
 Frequency: 2402~2481MHz  
 Antenna model: ACX-AT8010



EIRP-  $P_{cond} = G_{ant}(\text{Directivity})$   
 $G_{ant} = G_{ant}(\text{Directivity}) + \text{Efficiency}$

For example :

EIRP=3.8dBm,  $P_{cond} = -3.9\text{dBm}$ , Efficiency=-3.9dB

$G_{ant}(\text{Directivity}) = 3.8 - (-3.9) = 7.7\text{dBi}$

$G_{ant} = 7.7 - 3.9 = 3.8\text{dBi}$