

# ARU-10 Antenna test report

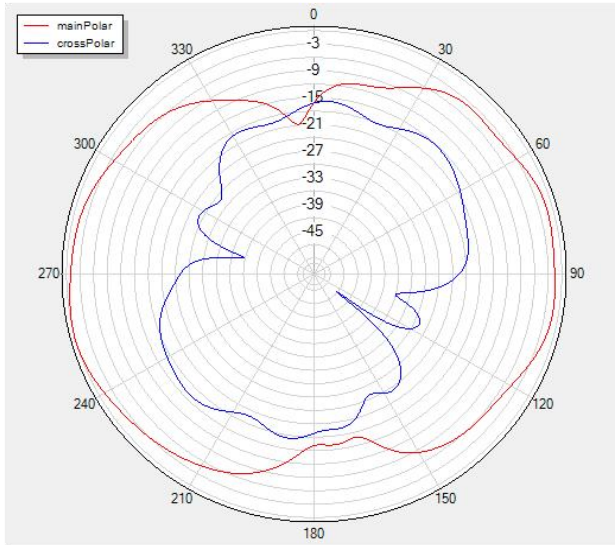
[illegible]

## Normal machine

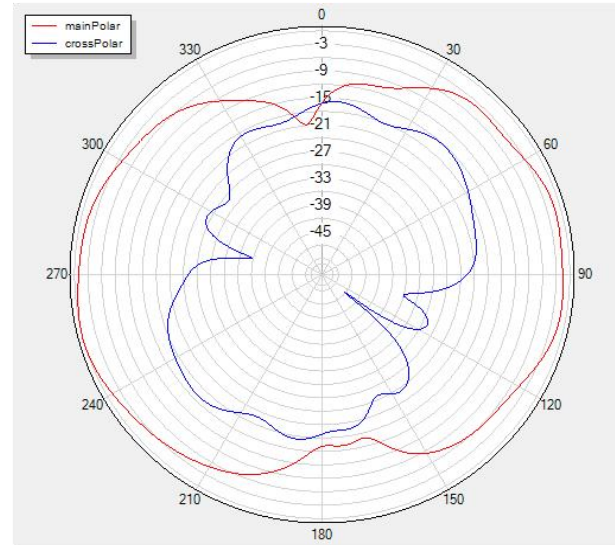
| Gain&Efficiency&PhaseCenter<br>增益、效率和相位中心 |                 |                 |                      |                     |
|-------------------------------------------|-----------------|-----------------|----------------------|---------------------|
| frequency<br>频率(MHz)                      | gain<br>增益(dBi) | mingain<br>最小增益 | efficiency<br>效率(dB) | efficiency<br>效率(%) |
| 657.0999756                               | -4.75           | -23.83          | -8.06                | 15.65               |
| 660.2999878                               | -4.77           | -23.52          | -8.05                | 15.68               |
| 662.9000244                               | -5.21           | -22.74          | -8.31                | 14.75               |
| 863                                       | -6.52           | -24.22          | -9.68                | 10.76               |
| 865                                       | -7.02           | -24.36          | -10.18               | 9.6                 |

# Normal machine

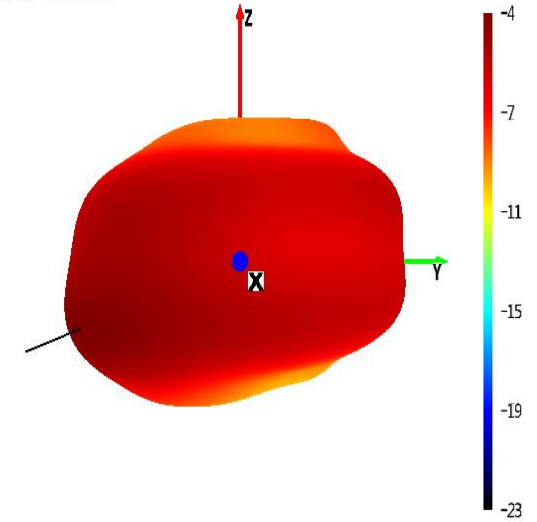
**ii=90 freq=657.099975585938MI**



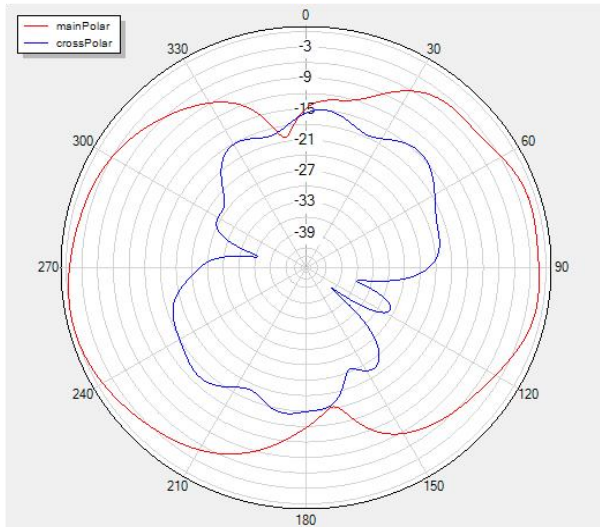
**ii=90 freq=657.099975585938MI**



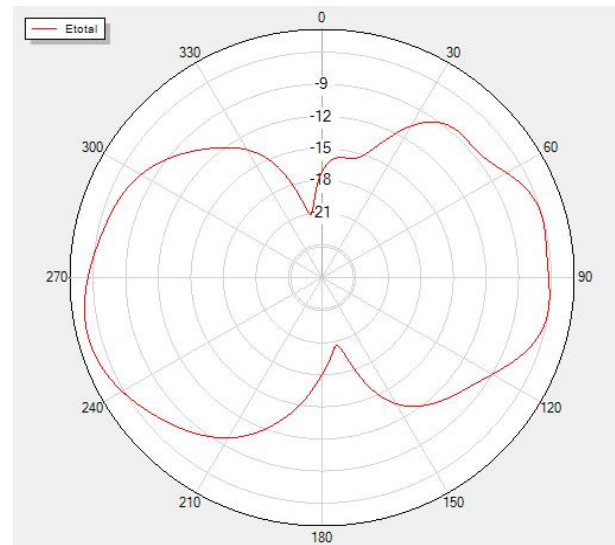
MAX: -4.75dBi  
MIN: -23.83dBi



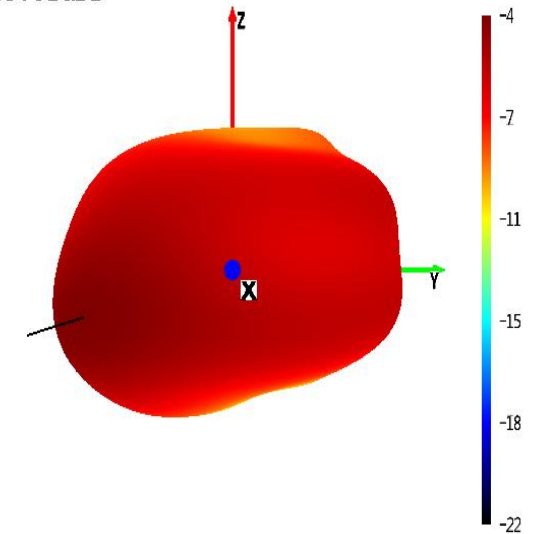
**ii=90 freq=660.299987792969MI**



**i=90 Freq=660.299987792969M**

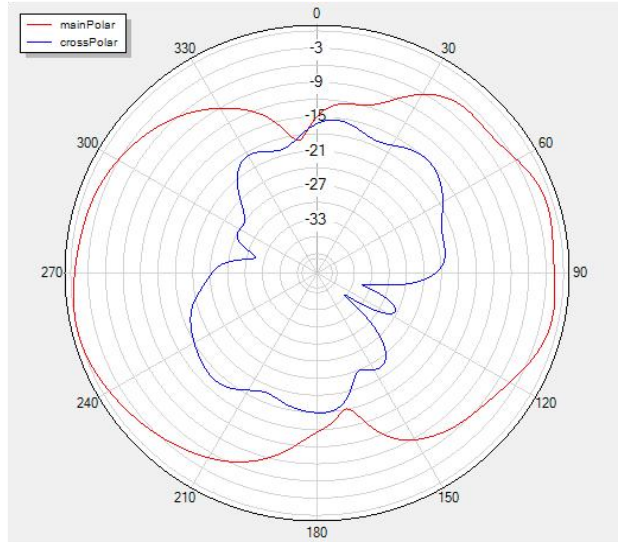


MAX: -4.77dBi  
MIN: -23.52dBi

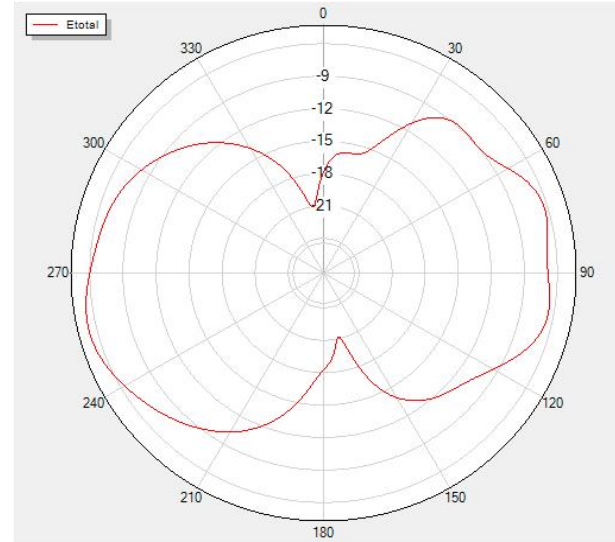


# Normal machine

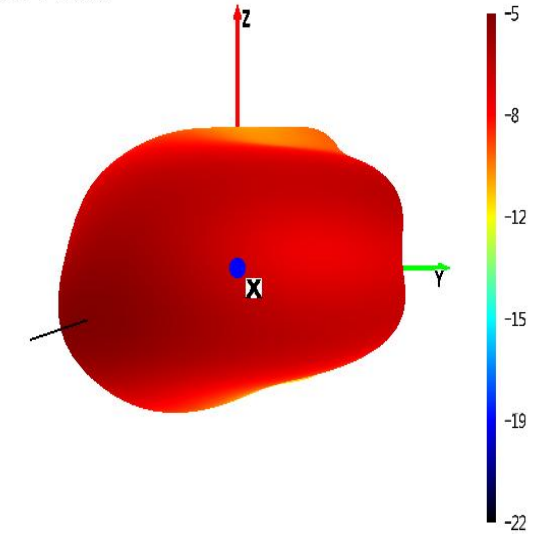
$\theta_i=90$  freq=662.900024414063M



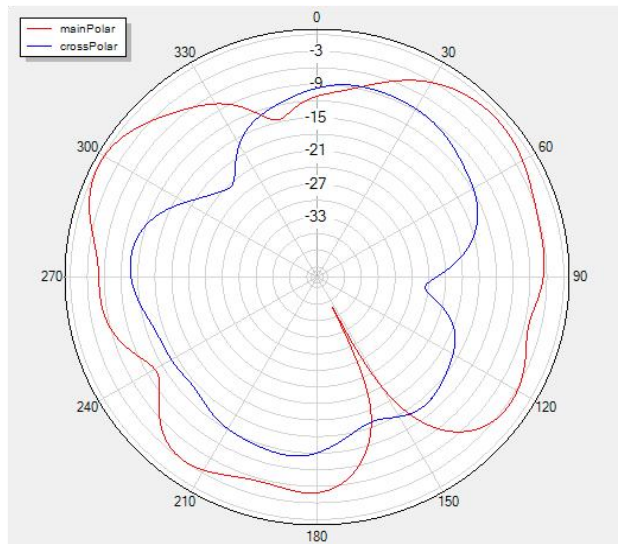
$\theta_i=90$  Freq=662.900024414063M



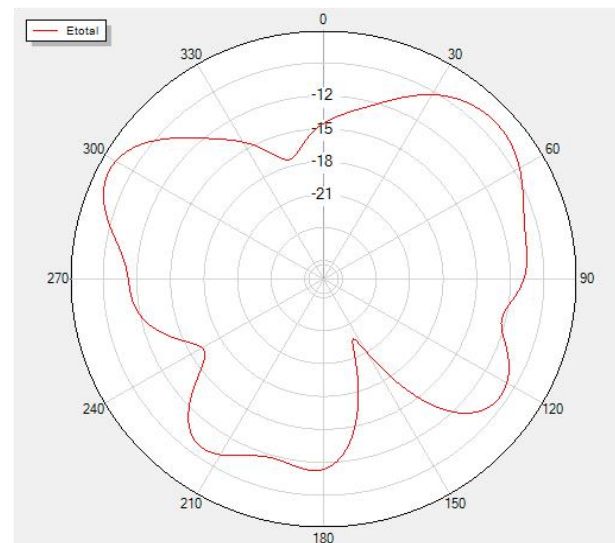
MAX:-5.21dBi  
MIN:-22.74dBi



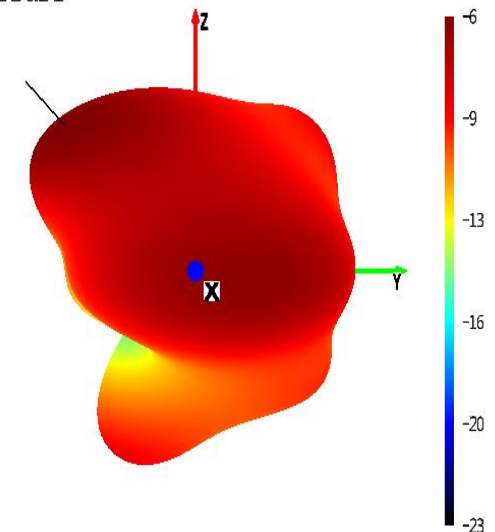
$\Phi_i=90$  freq=863MHz



$\Phi_i=90$  Freq=863MHz

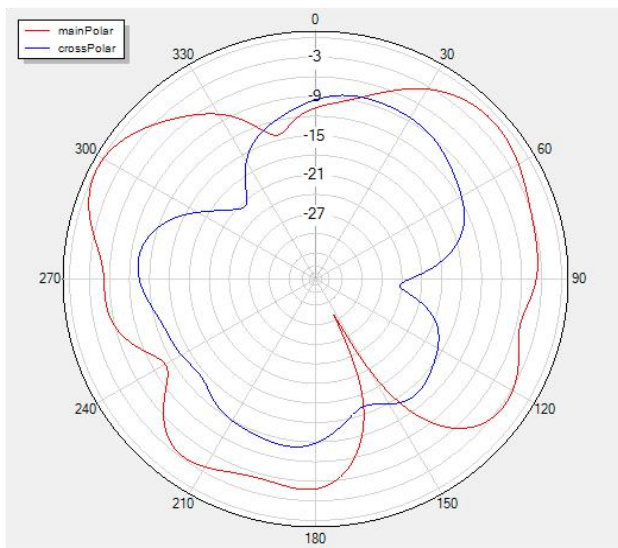


MAX:-6.52dBi  
MIN:-24.22dBi

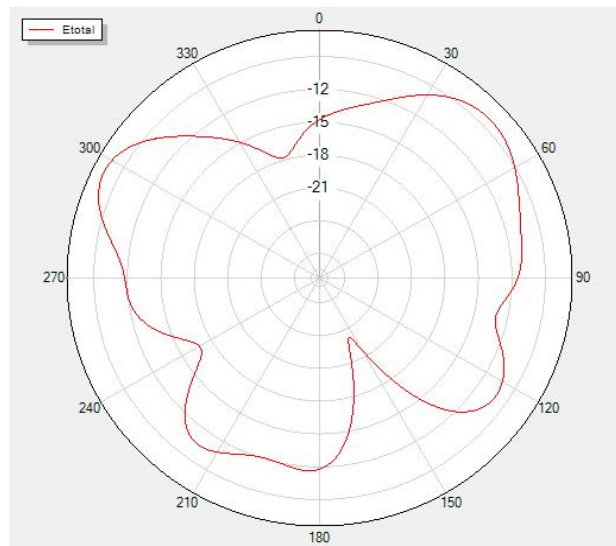


# Normal machine

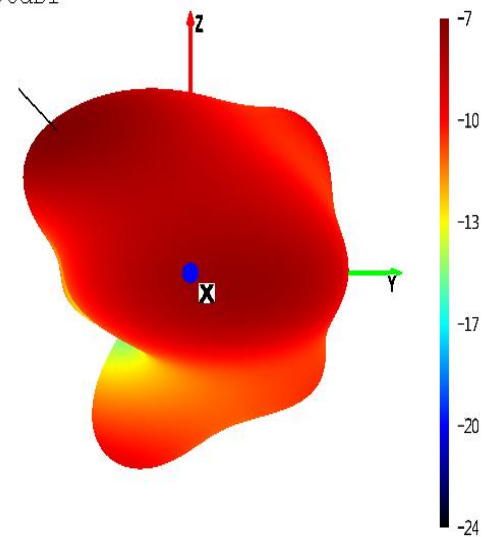
Phi=90 freq=865MHz



Phi=90 Freq=865MHz



MAX: -7.02dBi  
MIN: -24.36dBi

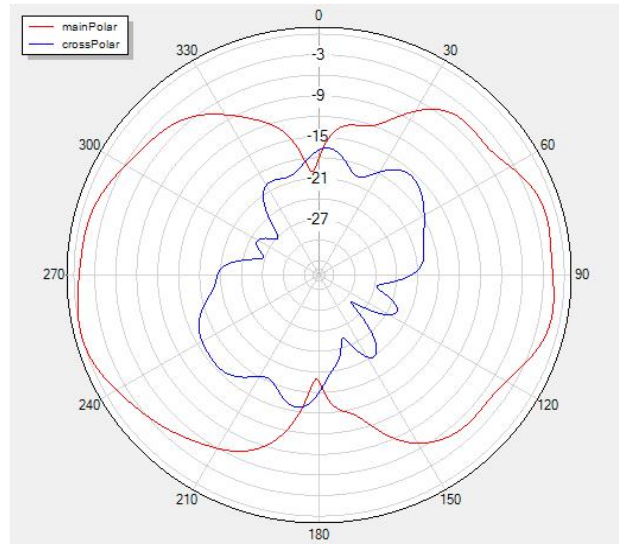


# Scattering machine

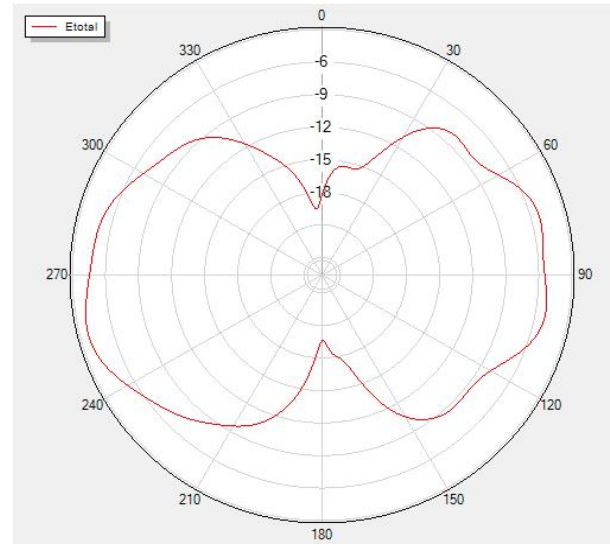
| Gain&Efficiency&PhaseCenter<br>增益、效率和相位中心 |                 |                 |                      |                     |
|-------------------------------------------|-----------------|-----------------|----------------------|---------------------|
| frequency<br>频率(MHz)                      | gain<br>增益(dBi) | mingain<br>最小增益 | efficiency<br>效率(dB) | efficiency<br>效率(%) |
| 657.0999756                               | -3.75           | -21.41          | -7.13                | 19.35               |
| 660.2999878                               | -3.78           | -21.2           | -7.14                | 19.34               |
| 662.9000244                               | -4.21           | -21.13          | -7.38                | 18.27               |
| 863                                       | -6.55           | -21.09          | -9.53                | 11.14               |
| 865                                       | -6.96           | -21.35          | -10.01               | 9.98                |

# Scattering machine

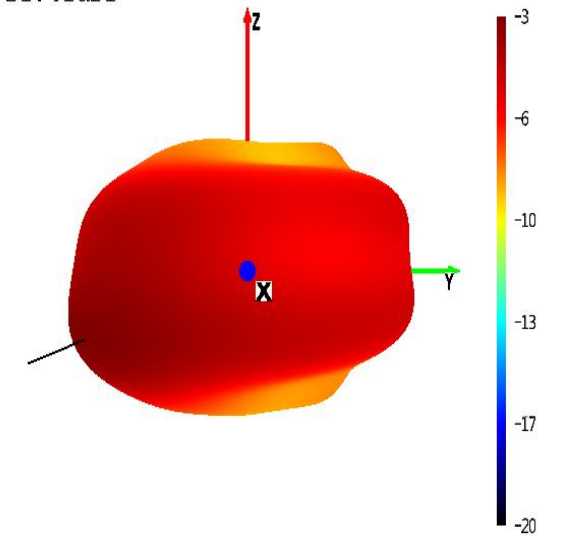
**i=90 freq=657.099975585938M**



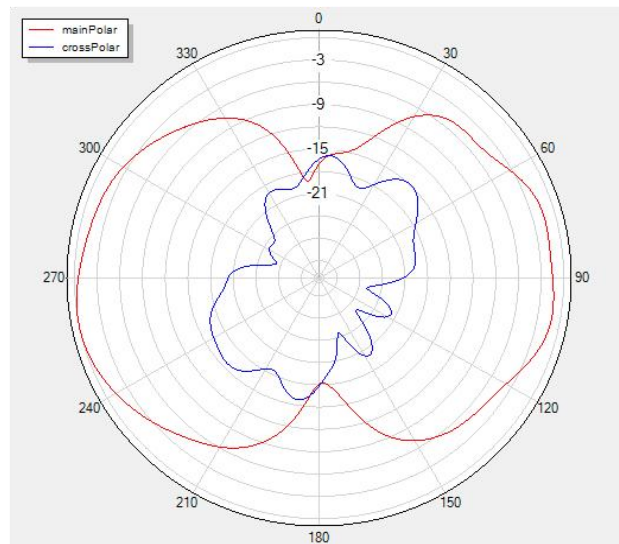
**i=90 Freq=657.099975585938M**



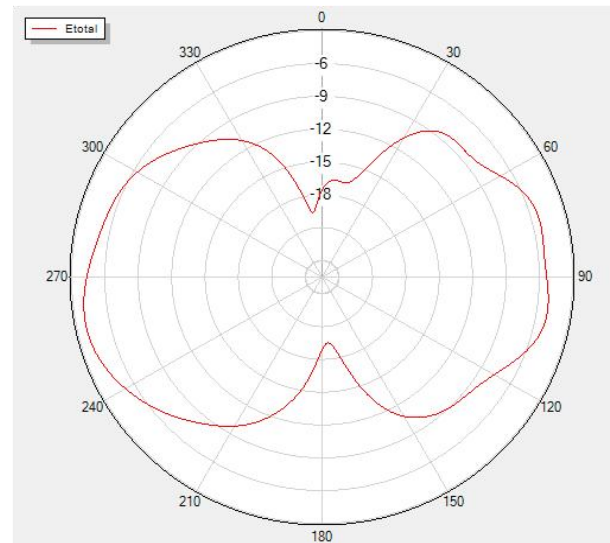
MAX:-3.75dBi  
MIN:-21.41dBi



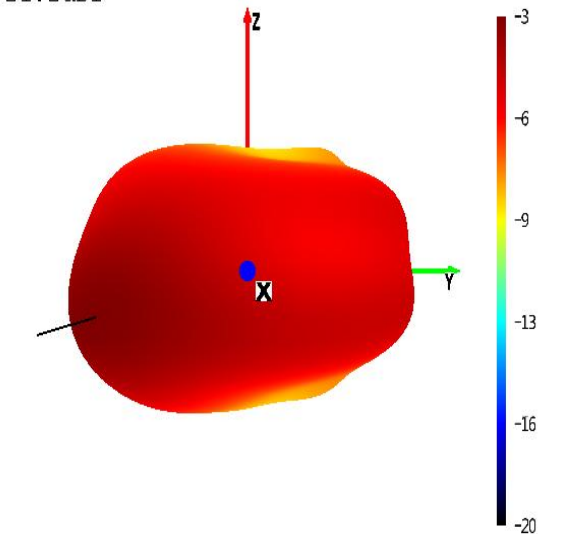
**i=90 freq=660.299987792969M**



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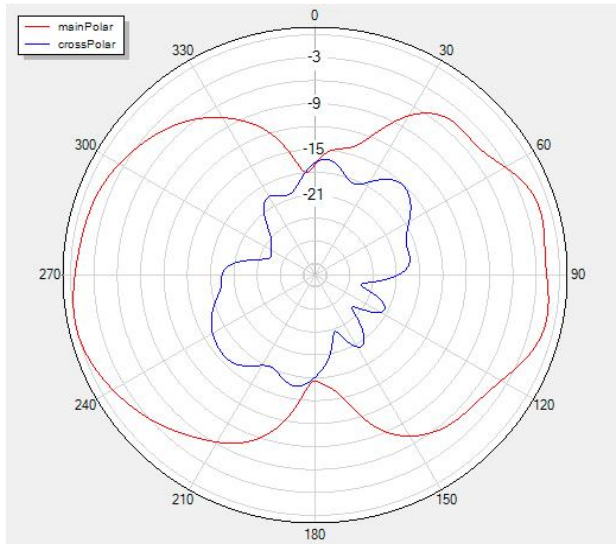


MAX:-3.78dBi  
MIN:-21.2dBi

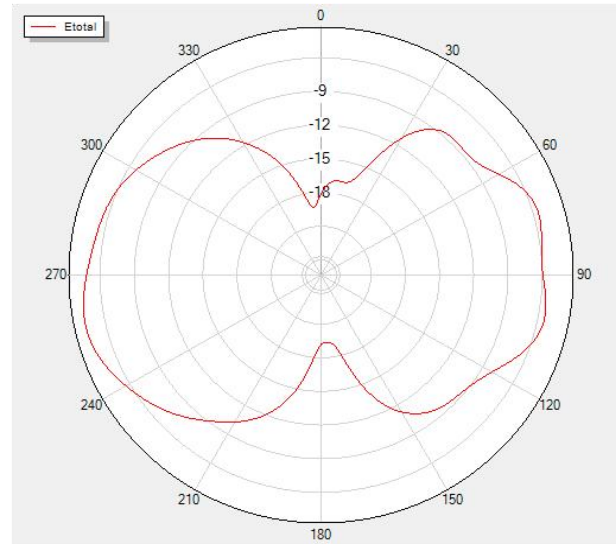


# Scattering machine

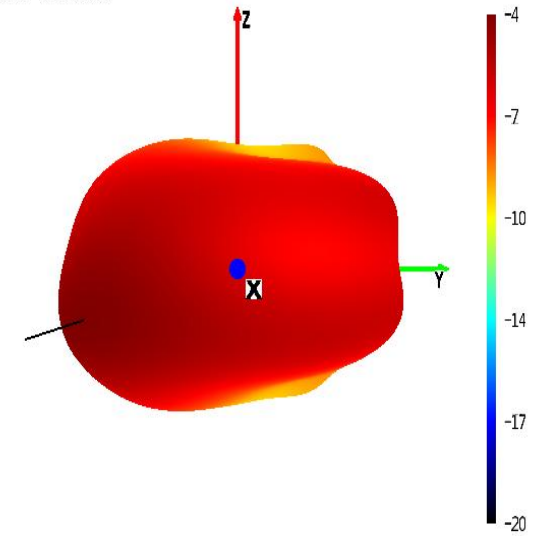
$\theta_i=90$  freq=662.900024414063M



$\theta_i=90$  Freq=662.900024414063M

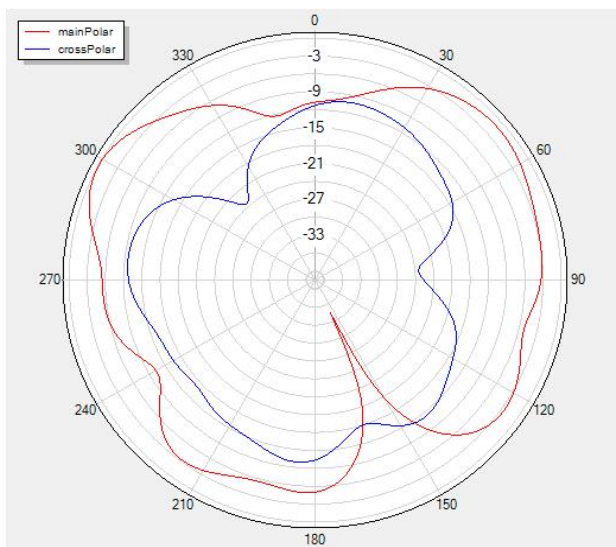


MAX: -4.21dBi  
MIN: -21.13dBi

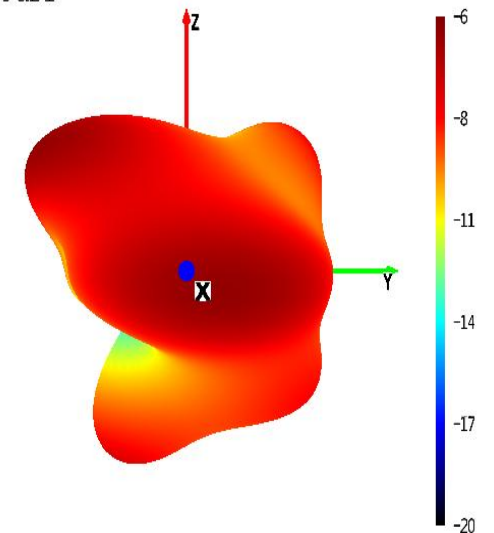
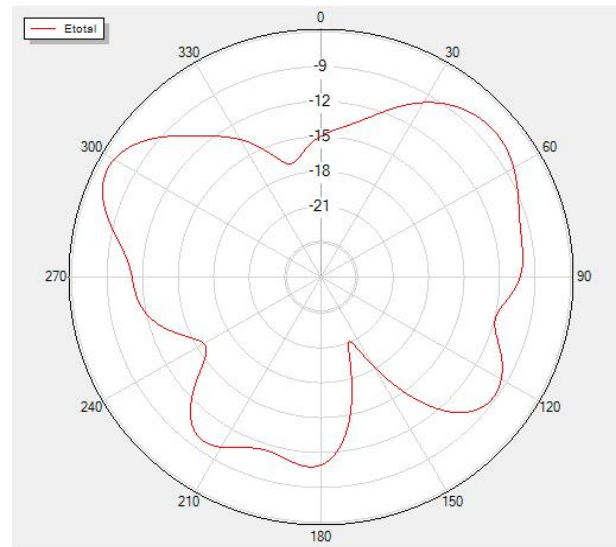


MAX: -6.55dBi  
MIN: -21.09dBi

$\Phi=90$  freq=863MHz

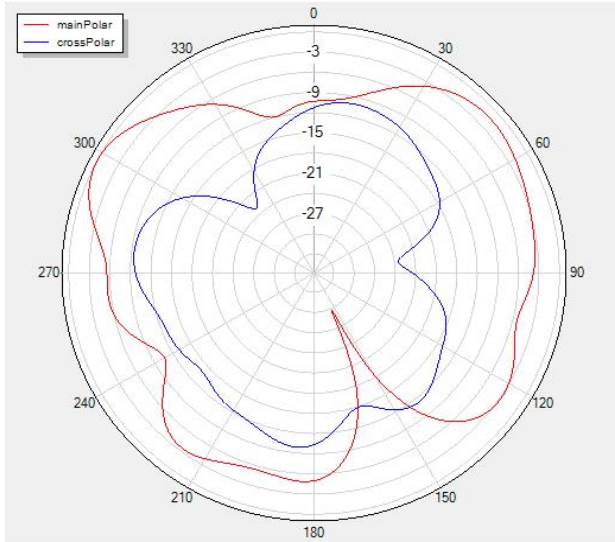


$\Phi=90$  Freq=863MHz

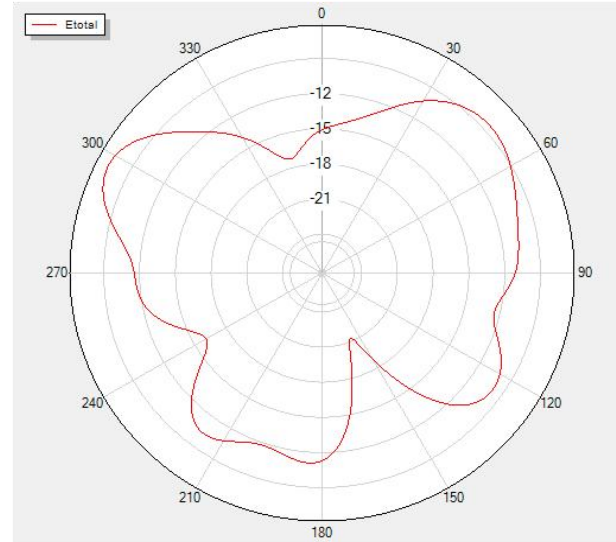


# Scattering machine

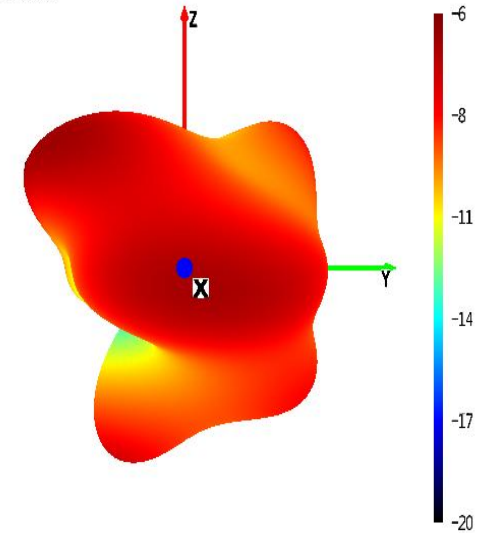
Phi=90 freq=865MHz



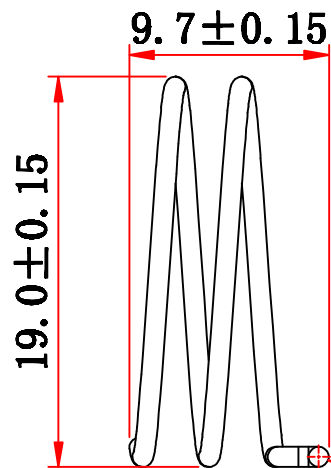
Phi=90 Freq=865MHz



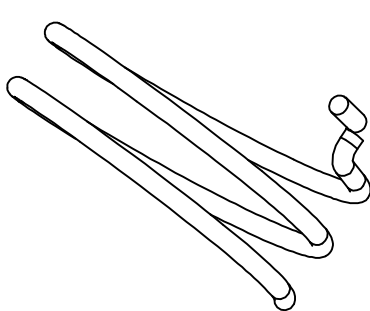
MAX: -6.96dBi  
MIN: -21.35dBi



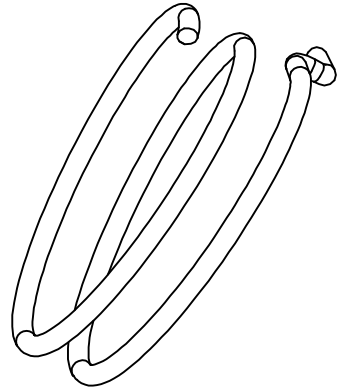
# Antenna size:



$\phi 1.00 \pm 0.05$



前侧视图  
(Front-side view )



后侧视图  
(Backside view )

