

UID 二代/UID Gen2

UWB Antenna test report



天線類型: Printed antenna

Antenna Type: Printed antenna

天線廠牌/型號: FOXCONN/M-ANT-T99I690T00A

Antenna Brand/Model: FOXCONN/M-ANT-T99I690T00A

製造廠商: FOXCONN

Manufacturer: FOXCONN

製造廠商地址: 廣西壯族自治區南寧市江南區同樂大道51號富士康科技園

Manufacturer Address: No.51,Tongle Road Foxconn Technology Park,Jiangnan District,Nanning,Guangxi,China

Requirements of Antenna Design

Antenna Configuration

RF Function	Number of ANT	Frequency Band	Remark
UWB	1	6250-8250 MHz	Monopole Antenna

Antenna Performance Target

Test Item	Specification	Remark
Peak gain	>3dBi ,	
Efficiency	>65%	
Return Loss	<-10	

Antenna Placement

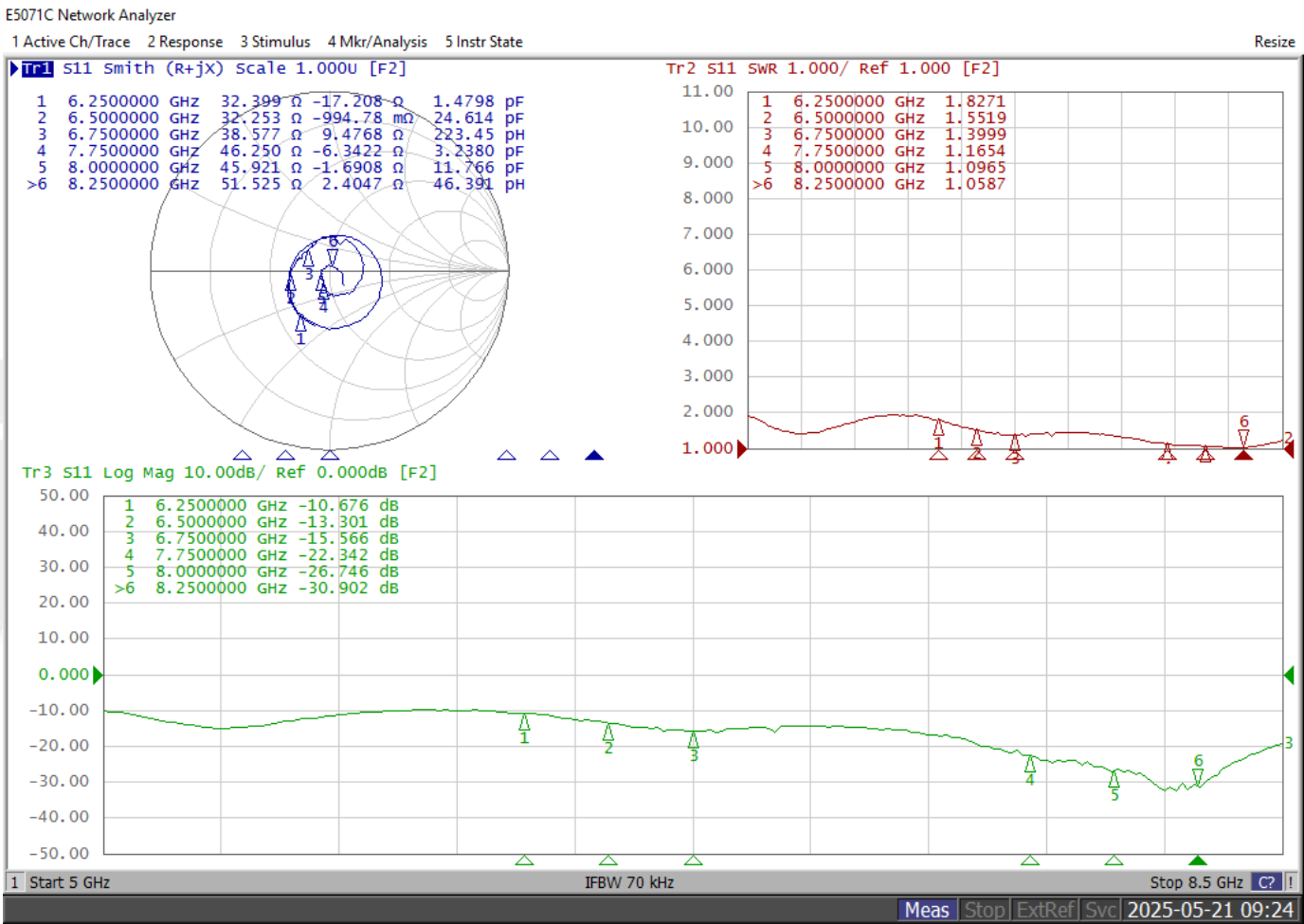
Requirements of Measurement

Antenna	Frequency(MHz)	PCB Size
UWB	6250~8250	9*9*1.2 mm



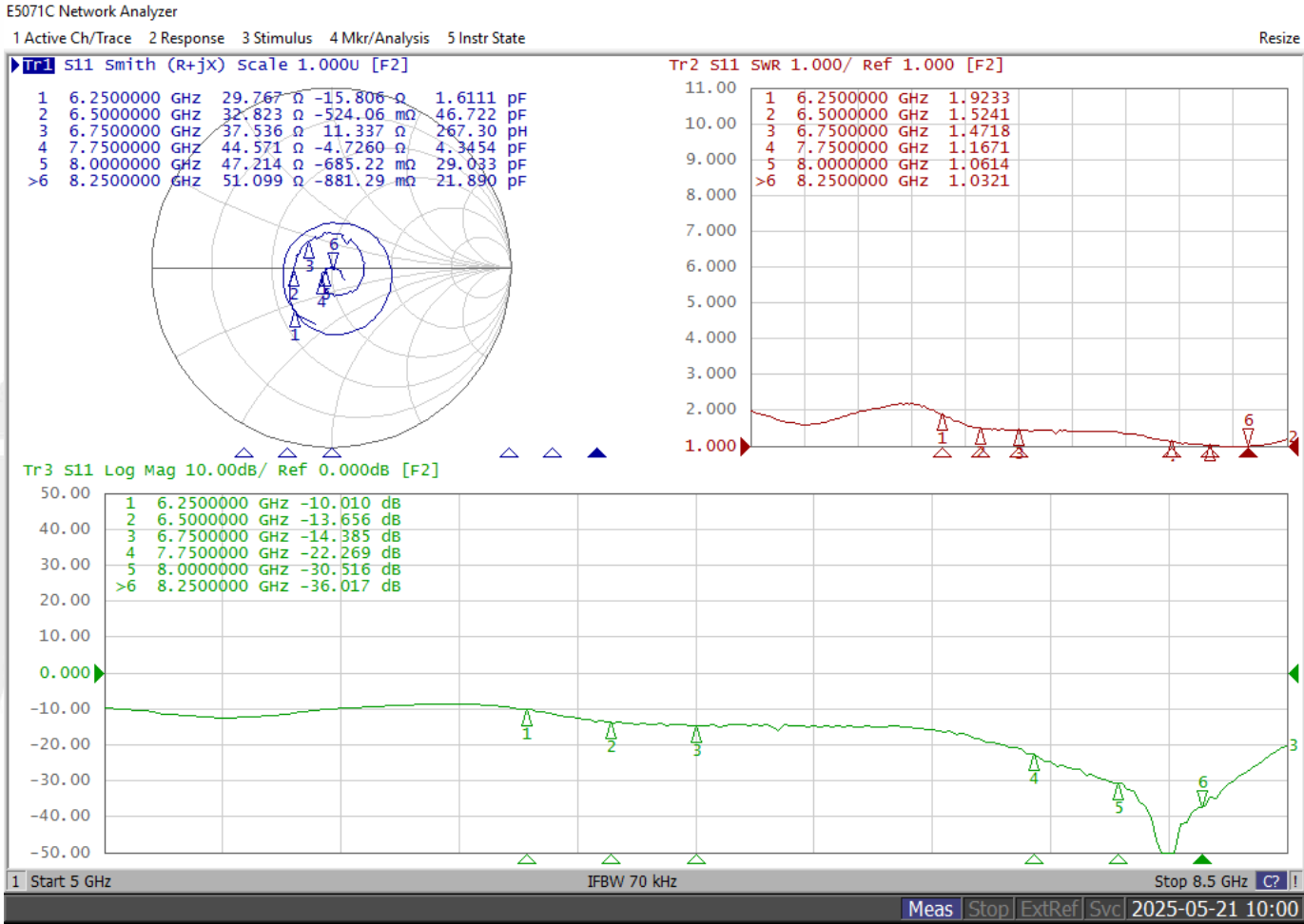
Foxconn Industrial Internet
富士康工业互联网

UWB 1# Antenna S-Parameter & Return Loss



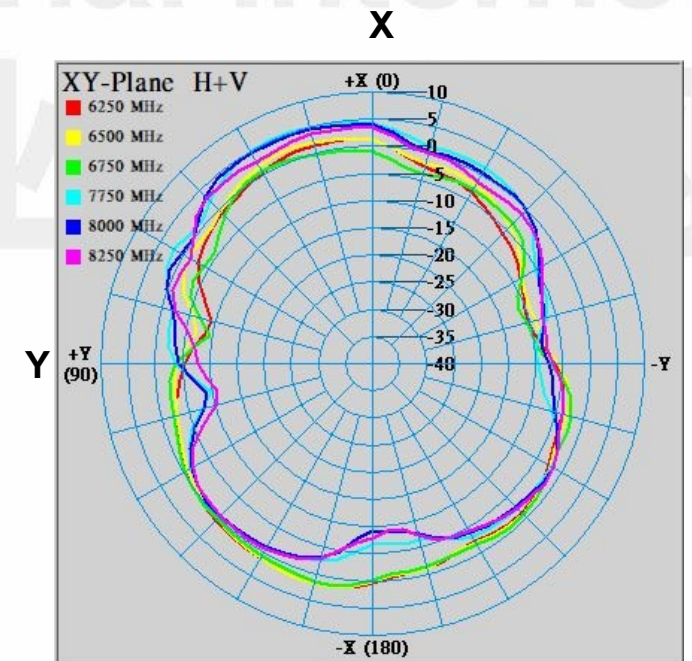
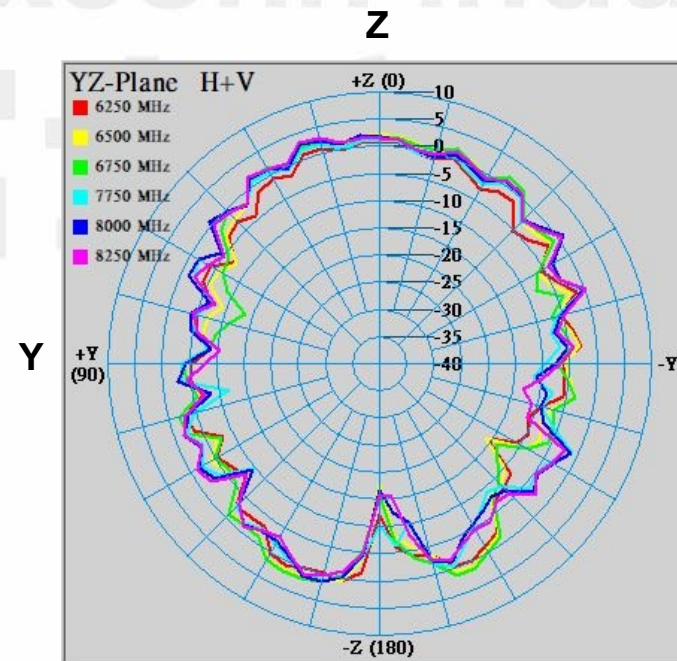
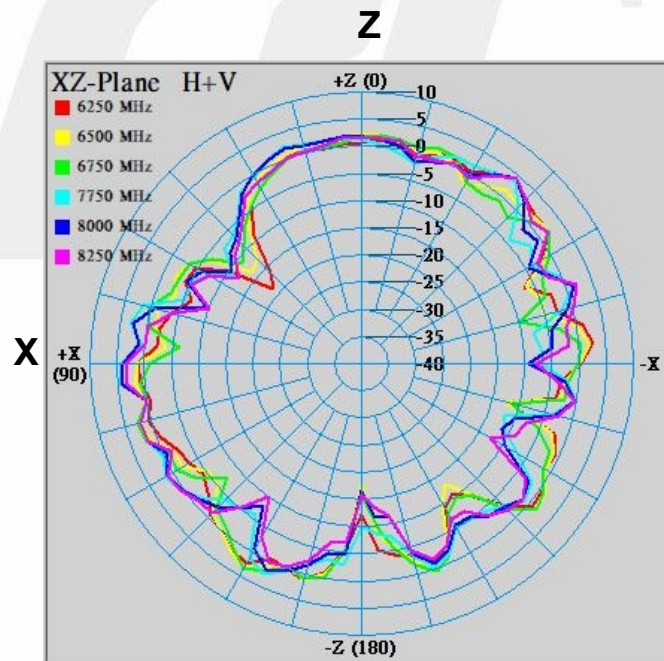
Antenna	6.25 GHz	6.75 GHz	7.75 GHz	8.25 GHz
UWB(dB)	-10.7	-15.6	-22.3	-30.9

UWB 2# Antenna S-Parameter & Return Loss

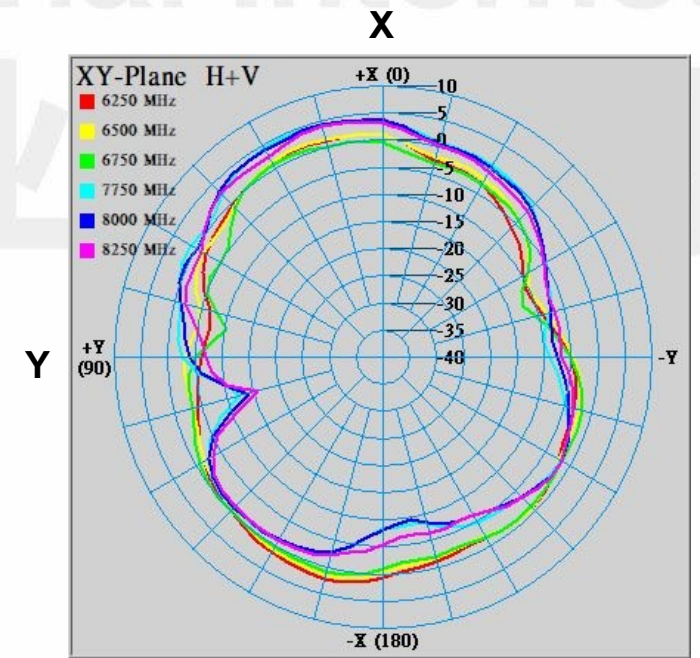
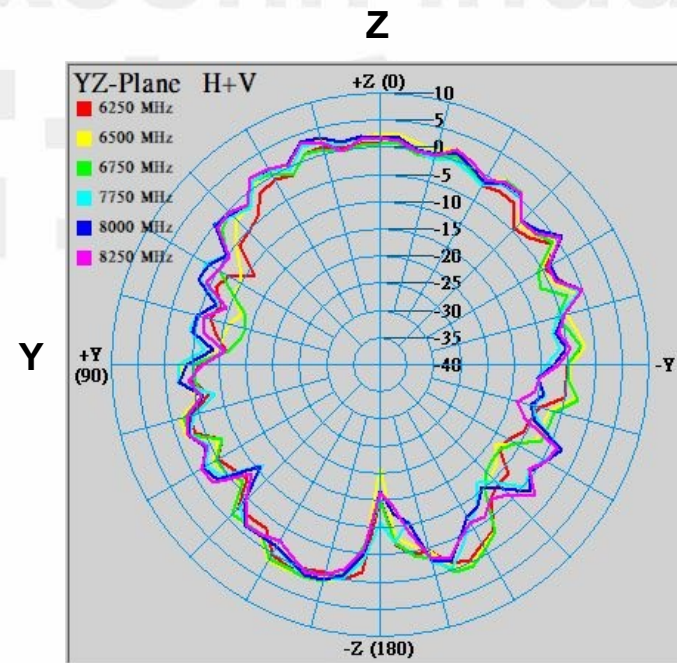
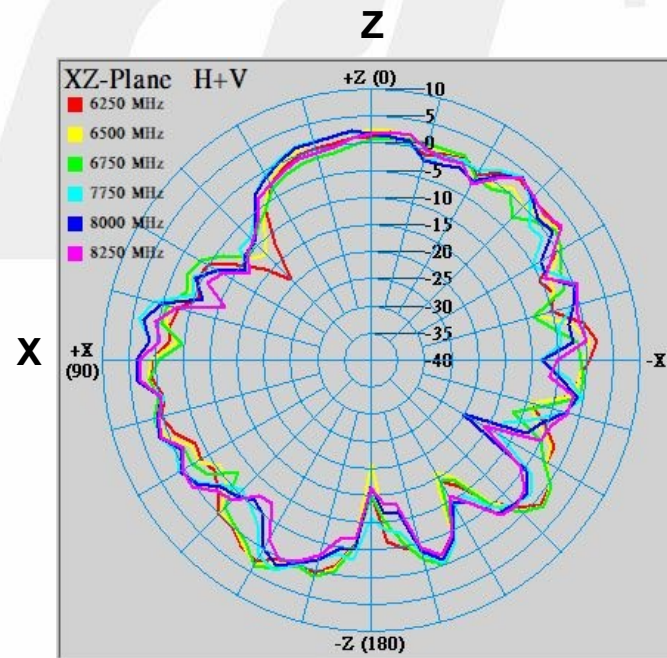


Antenna	6.25 GHz	6.75 GHz	7.75 GHz	8.25 GHz
UWB(dB)	-10.0	-14.4	-22.3	-36.0

UWB 1# Antenna Radiation Patterns

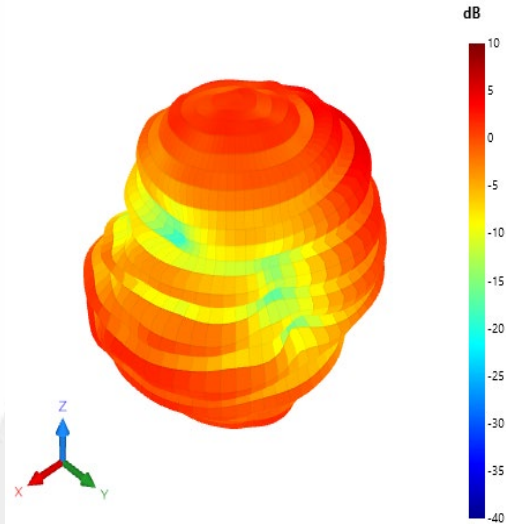


UWB 2# Antenna Radiation Patterns

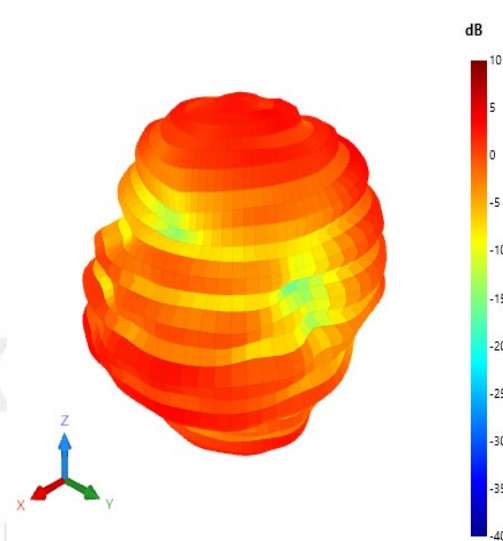


UWB 1# Antenna 3D Radiation Patterns

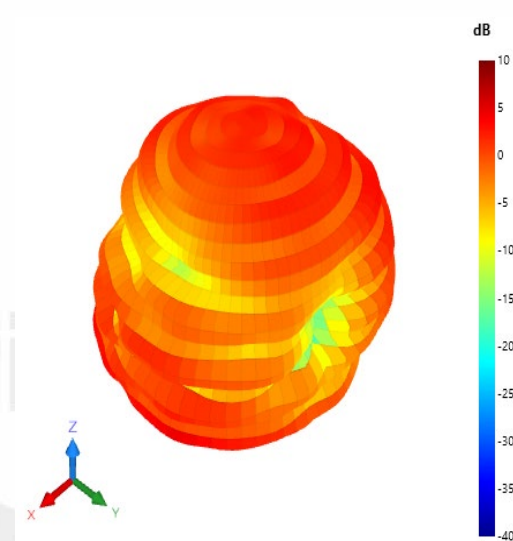
6.25 GHz



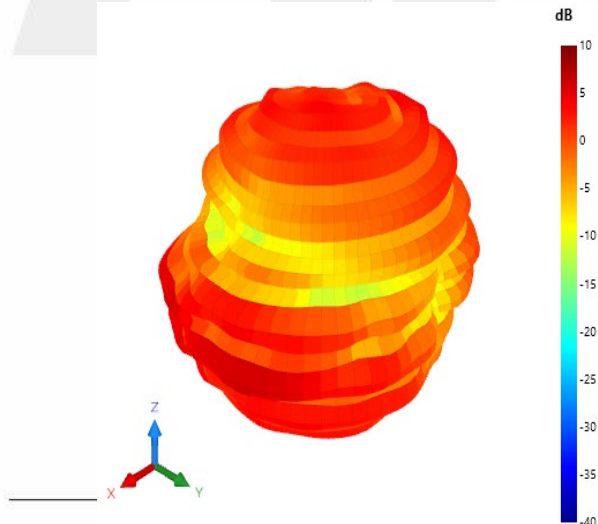
6.50 GHz



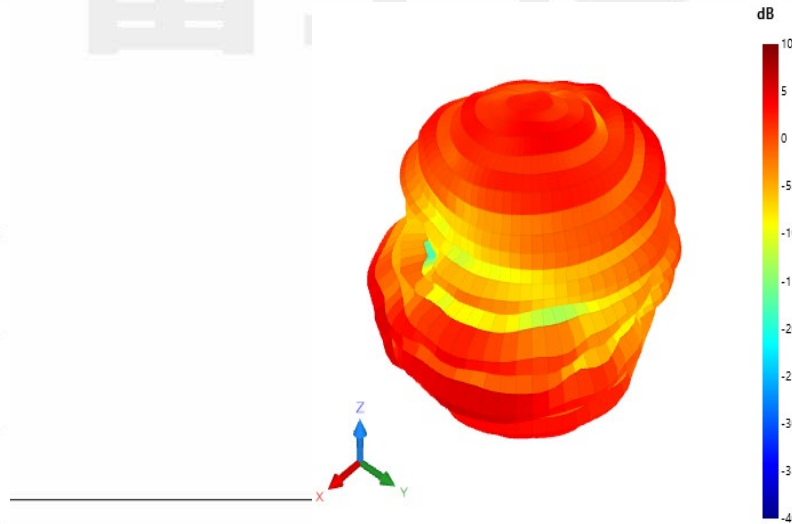
6.75 GHz



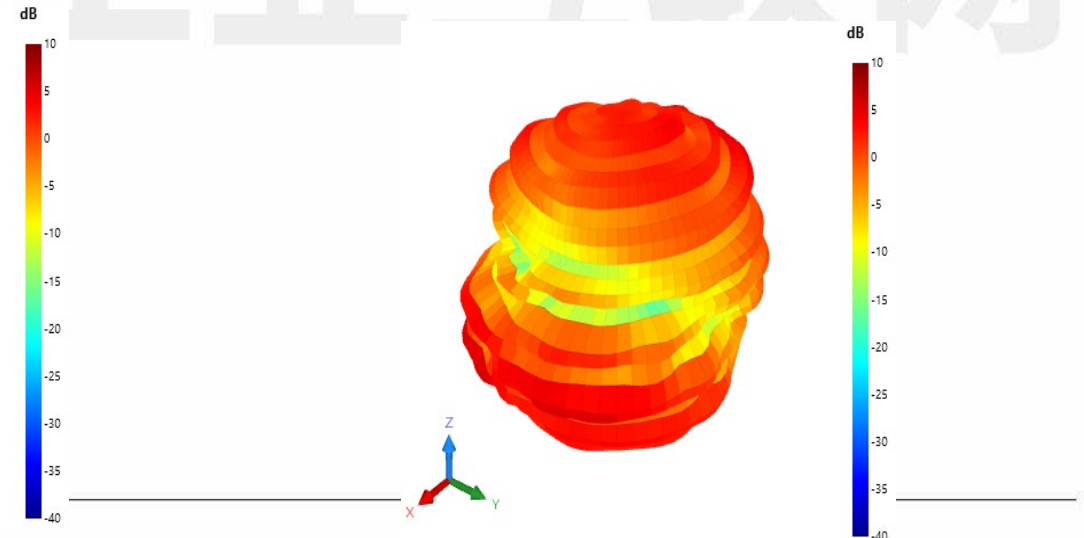
7.75 GHz



8.00 GHz

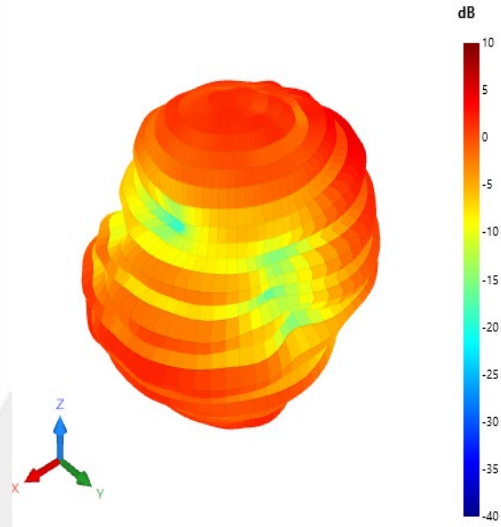


8.25 GHz

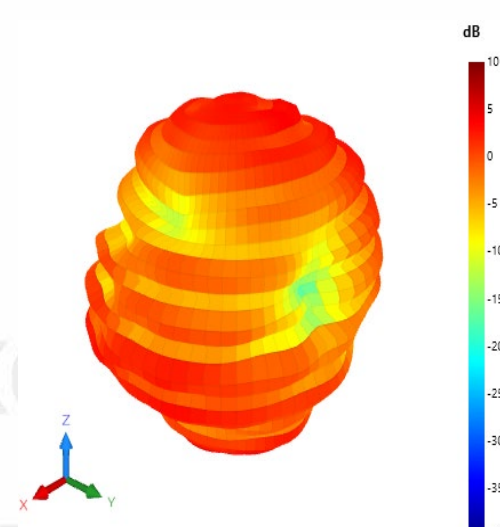


UWB 2# Antenna 3D Radiation Patterns

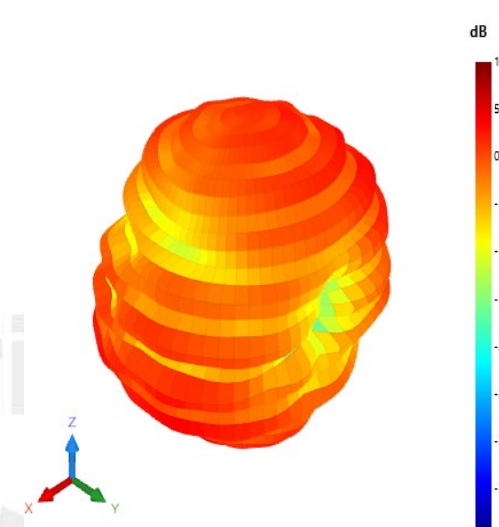
6.25 GHz



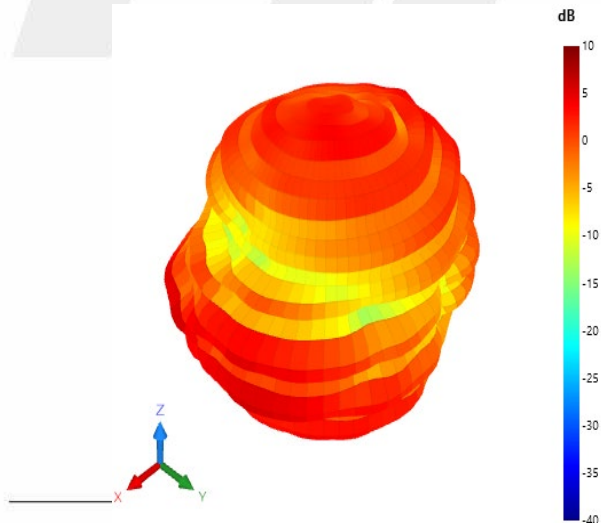
6.50 GHz



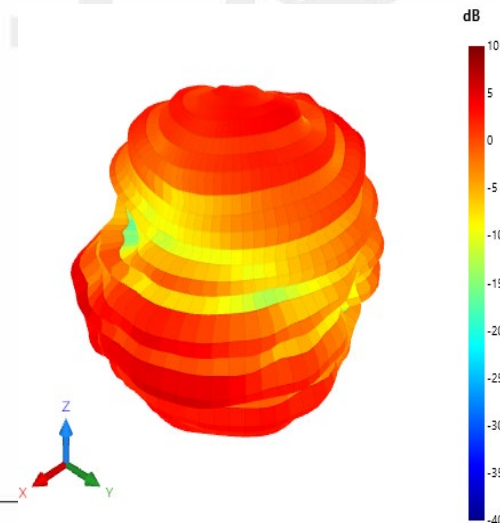
6.75 GHz



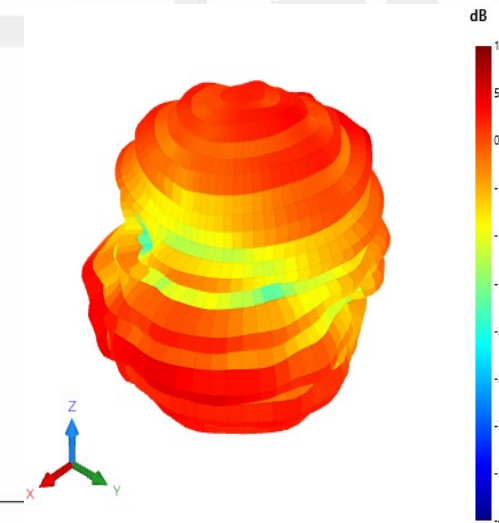
7.75 GHz



8.00 GHz



8.25 GHz



Results Summary (Peak Gain , Efficiency)

Peak gain & Efficiency – UWB 1#

Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
6250	4.26	64%
6500	4.01	71%
6750	4.46	71%
7750	5.69	77%
8000	5.8	77%
8250	5.02	74%

Peak gain & Efficiency – UWB 2#

Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
6250	3.97	62%
6500	4.17	68%
6750	4.47	66%
7750	5.39	73%
8000	5.31	72%
8250	4.79	68%