

UWB Anchor-D6 Antenna Test report

date: 2024-10-18

Notes:

Only radiated measurements are used to show compliance with FCC limits for fundamental and spurious emissions.

Antenna Placement

天線類型：on board PCB天線

Antenna Type: On-board PCB Antenna

天線廠牌/型號：FOXCONN/M-ANT-T99I641T00B

Antenna Brand/Model: FOXCONN/M-ANT-T99I641T00B

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

Test Setup for S-parameter Measurement

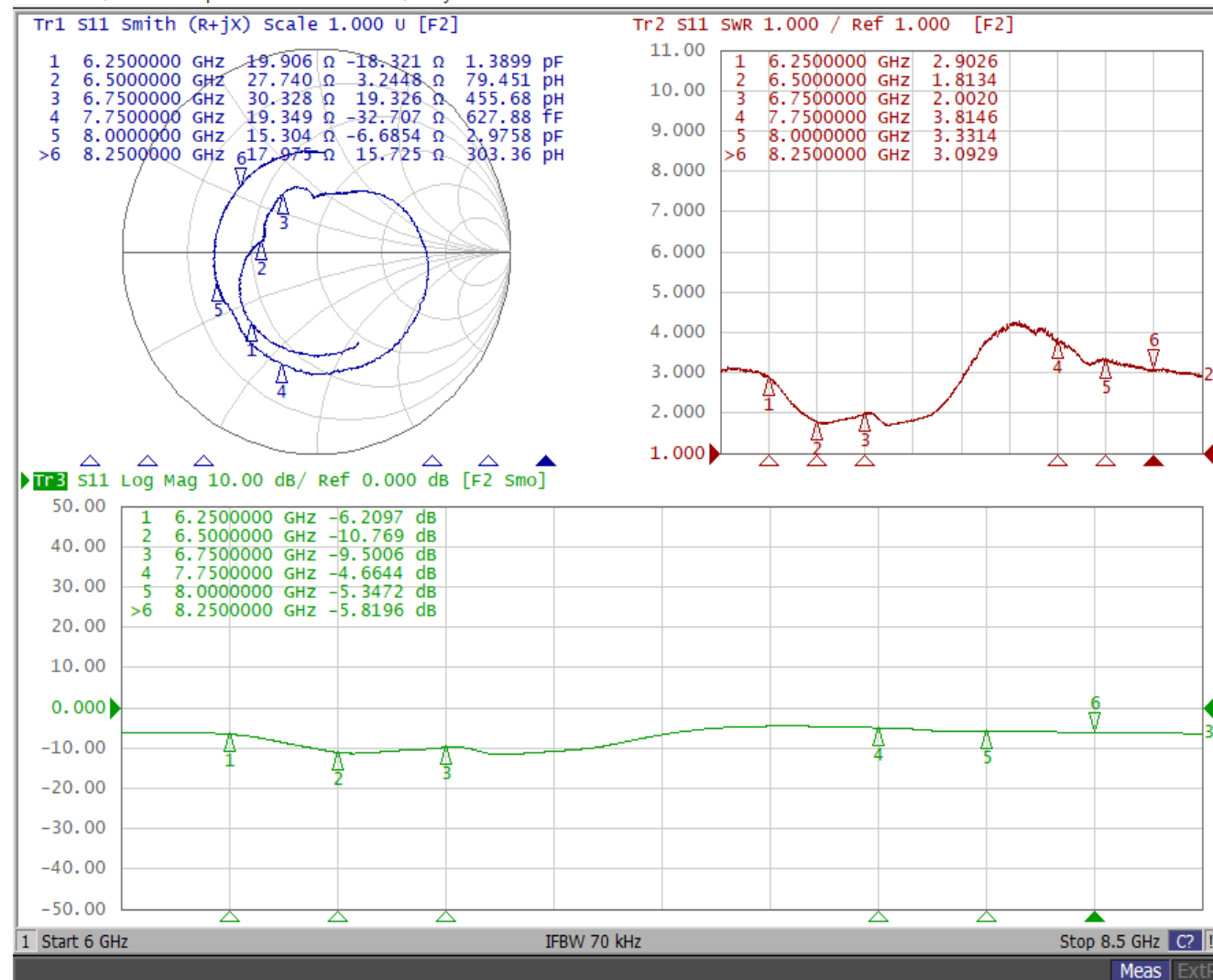
Equipment	Brand	Model	S/N
Network Analyzer	Keysight	E5063A	MY54706080



S11 & Smith Chart ---ANT1

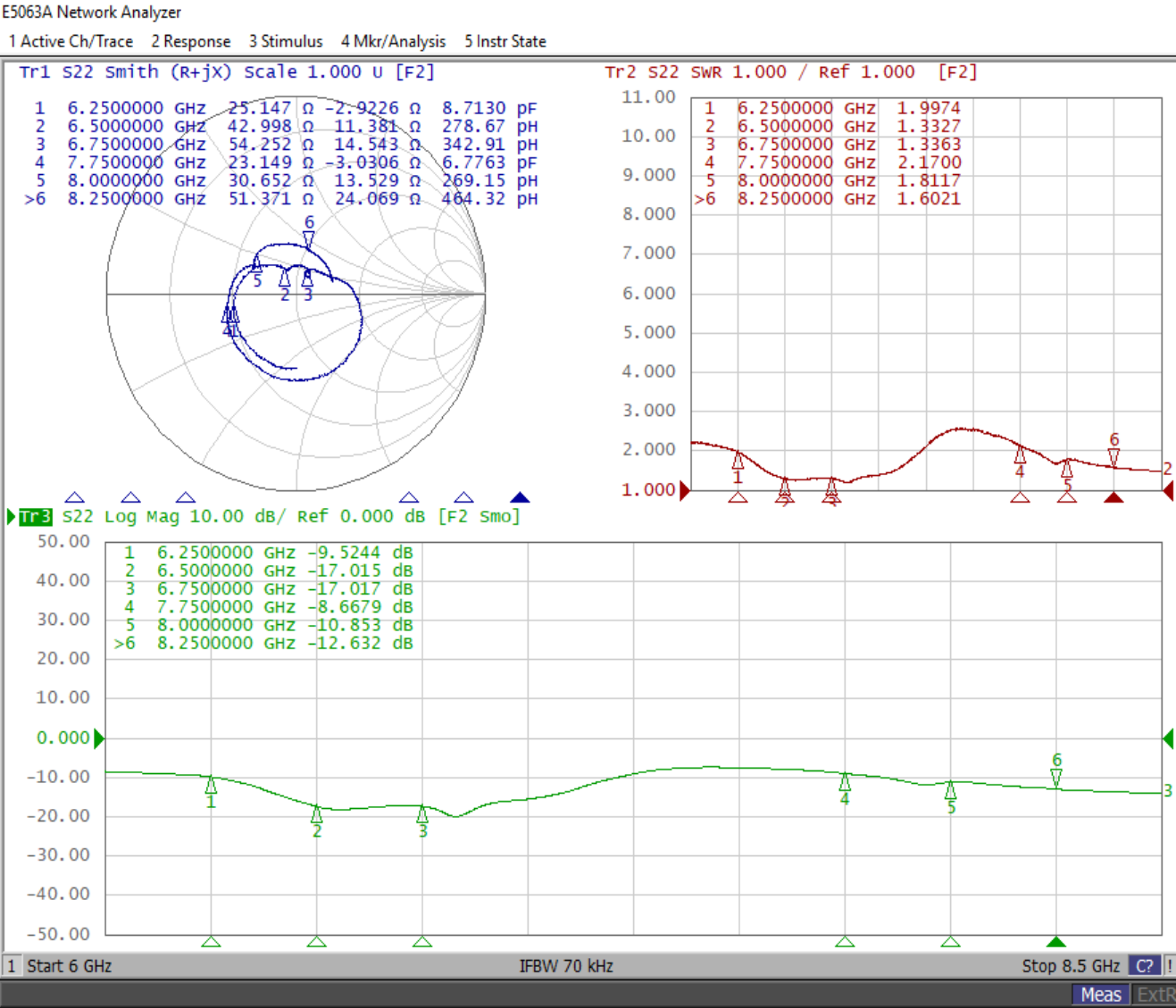
E5063A Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State



Antenna	Frequency
Ant-1	6250-8250 MHz

S11 & Smith Chart ---ANT2



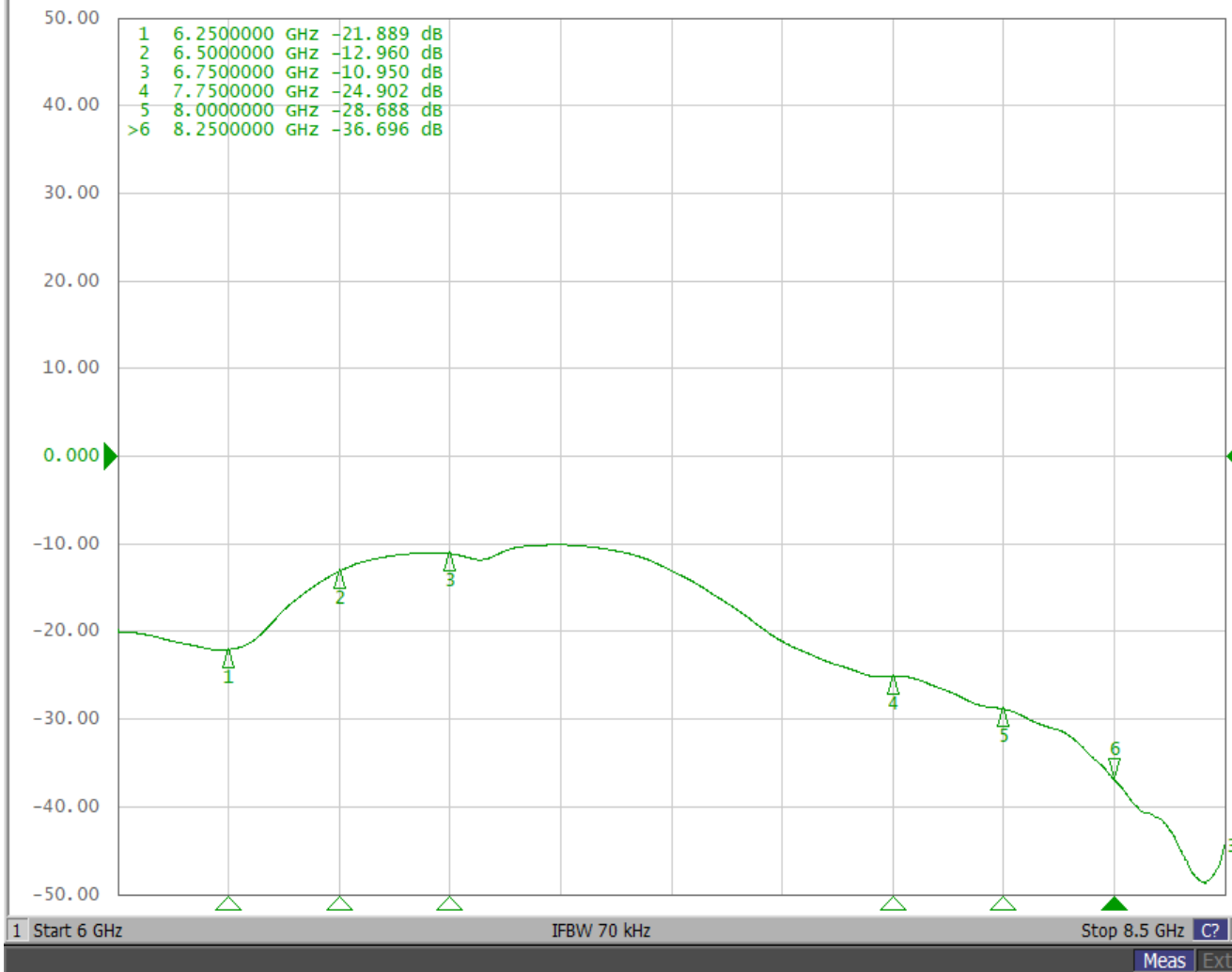
Antenna	Frequency
Ant-2	6250-8250 MHz

S21 Chart

E5063A Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

Tr3 S21 Log Mag 10.00 dB/ Ref 0.000 dB [F2 Smo]

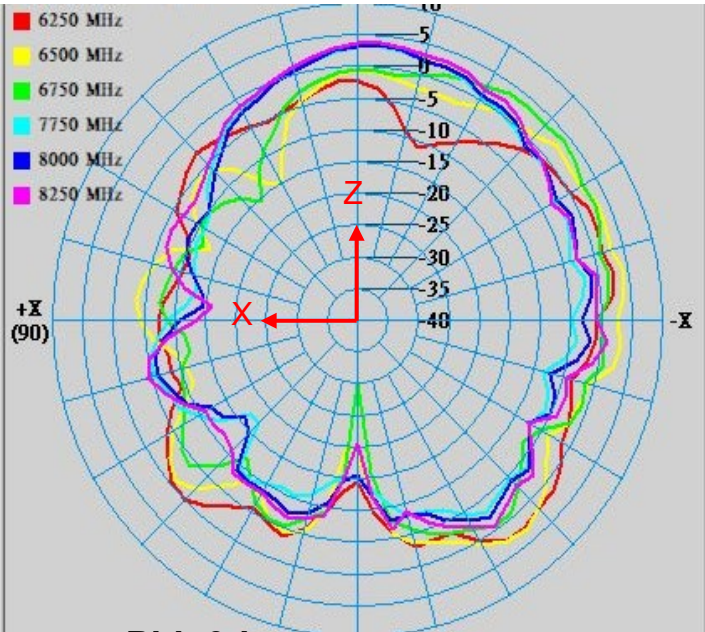


ANT Peak Gain & Efficiency

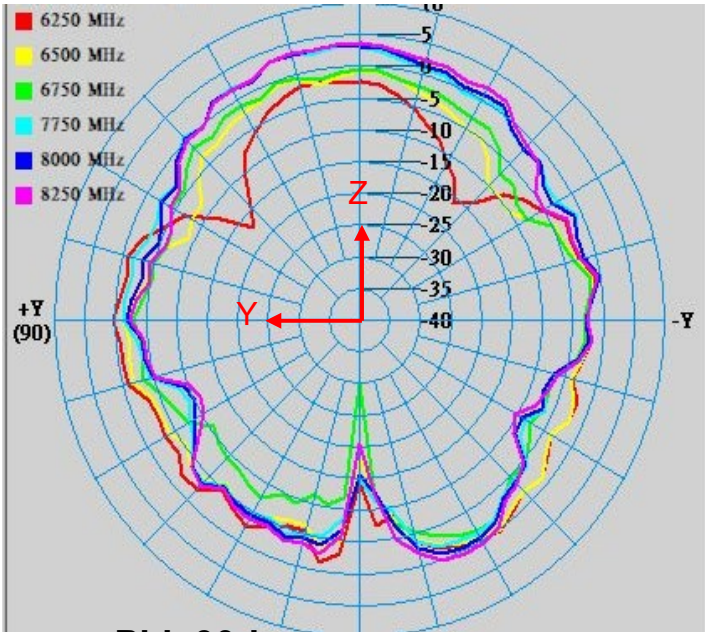
Frequency (MHz)	Ant.1		Ant.2	
	Peak Gain (dBi)	Efficiency (%)	Peak Gain (dBi)	Efficiency (%)
6250	3.43	54%	3.80	67%
6500	4.52	64%	4.83	70%
6750	4.67	56%	4.91	65%
7750	3.87	46%	5.63	66%
8000	3.75	48%	5.72	68%
8250	4.20	53%	6.01	75%

2D Radiation Pattern Results-ANT1

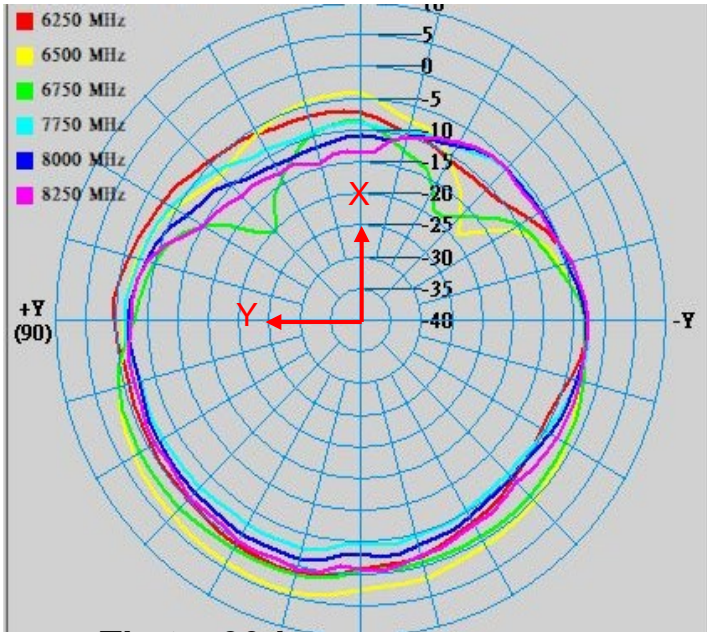
ANT1 (UWB)



Phi=0deg



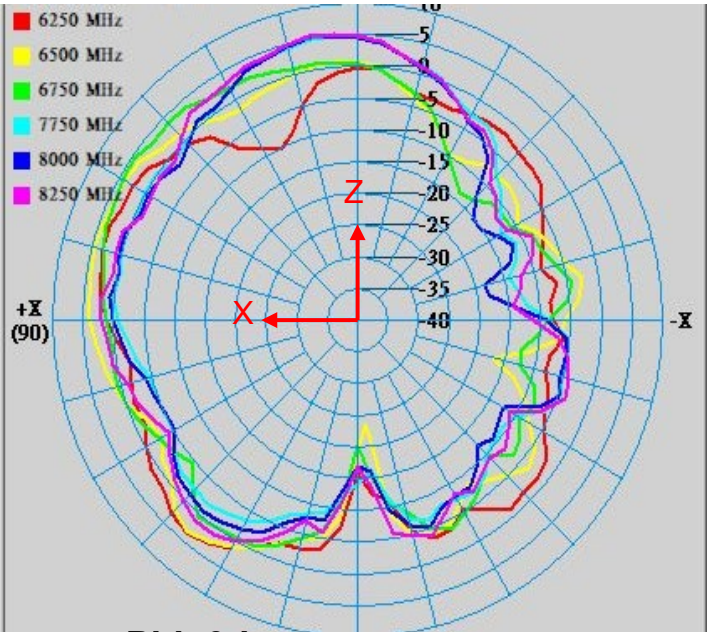
Phi=90deg



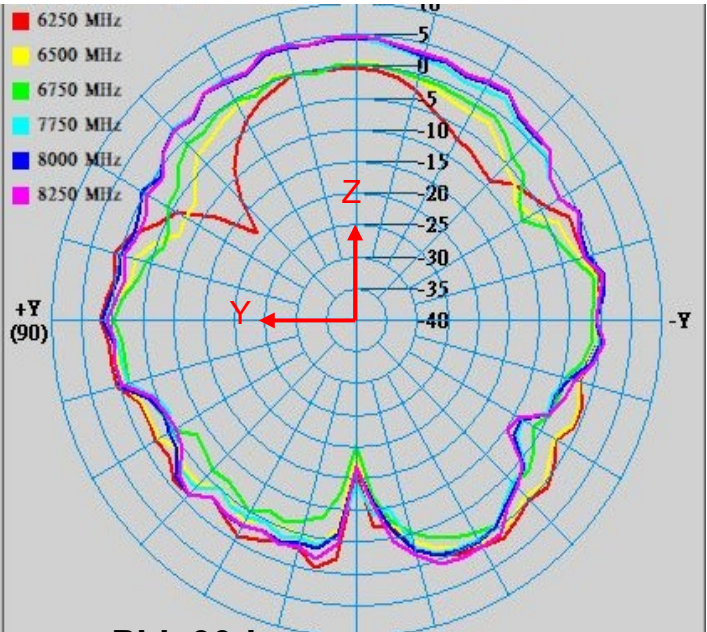
Theta=90deg

2D Radiation Pattern Results-ANT2

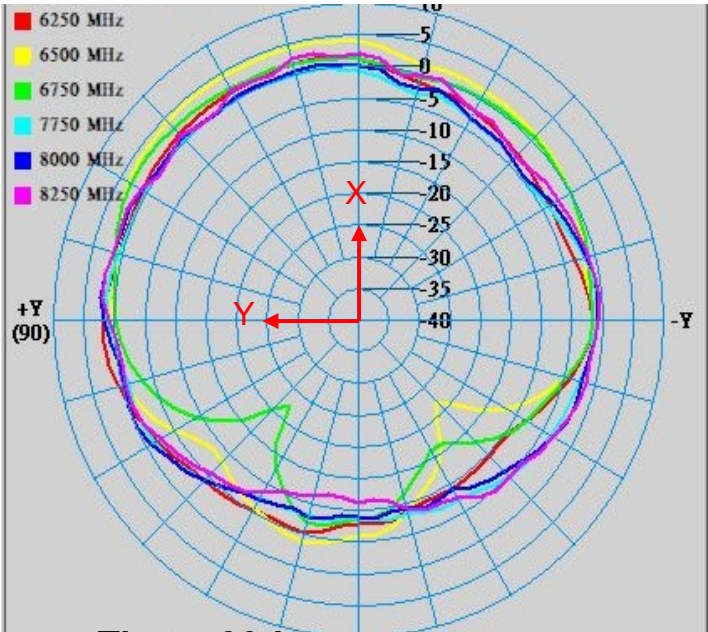
ANT2 (UWB)



Phi=0deg



Phi=90deg



Theta=90deg