

The KT2 Antenna Performance Testing Report

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Antenna Description

Item	Note	Antenna fixed in machine diagram
Main (Left)	1. Antenna is fixed on the left hinge of NB. 2. Cable: 1.13 mm (OD) x 300 mm (Gray). 3. Connector: Foxconn SGX0001 RF jack connector. 4. Monopole type PCB antenna with FR4 material.	
Aux (Right)	1. Antenna is fixed on the right hinge of NB. 2. Cable: 1.13 mm (OD) x 500 mm (Black). 3. Connector: Foxconn SGX0001 RF jack connector. 4. Monopole type PCB antenna with FR4 material.	

Antenna fixed in the machine photo: Left & Right

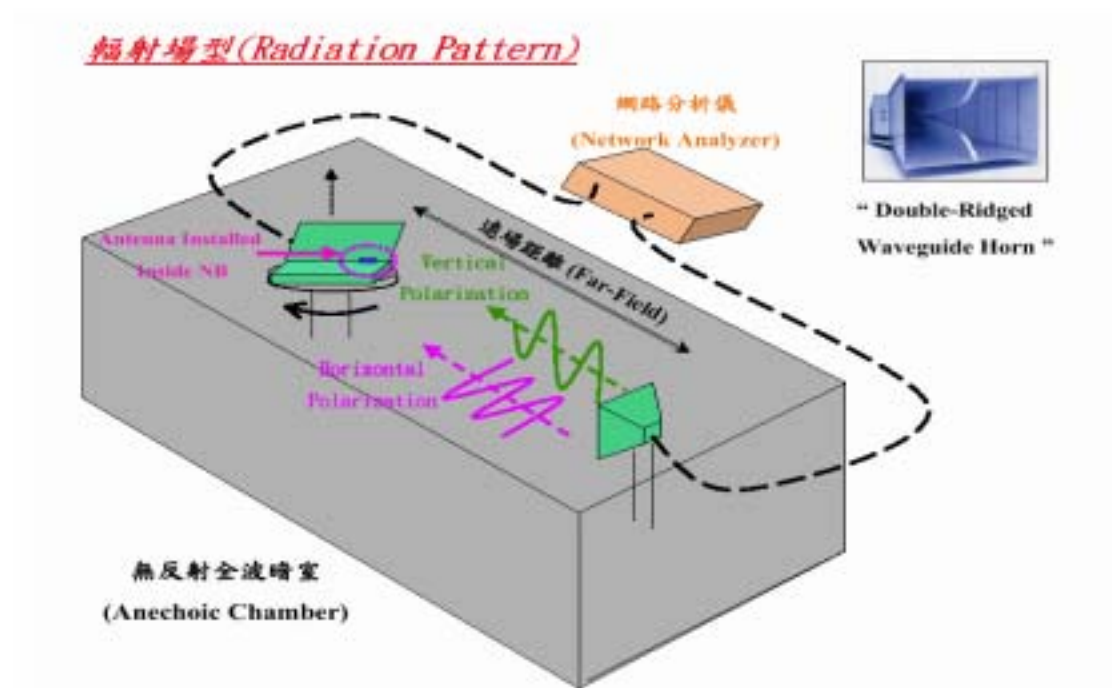
Test Item:

1. VSWR (2.0 ~ 3.0 GHz)
2. Gain @ 2.4 ~ 2.5GHz

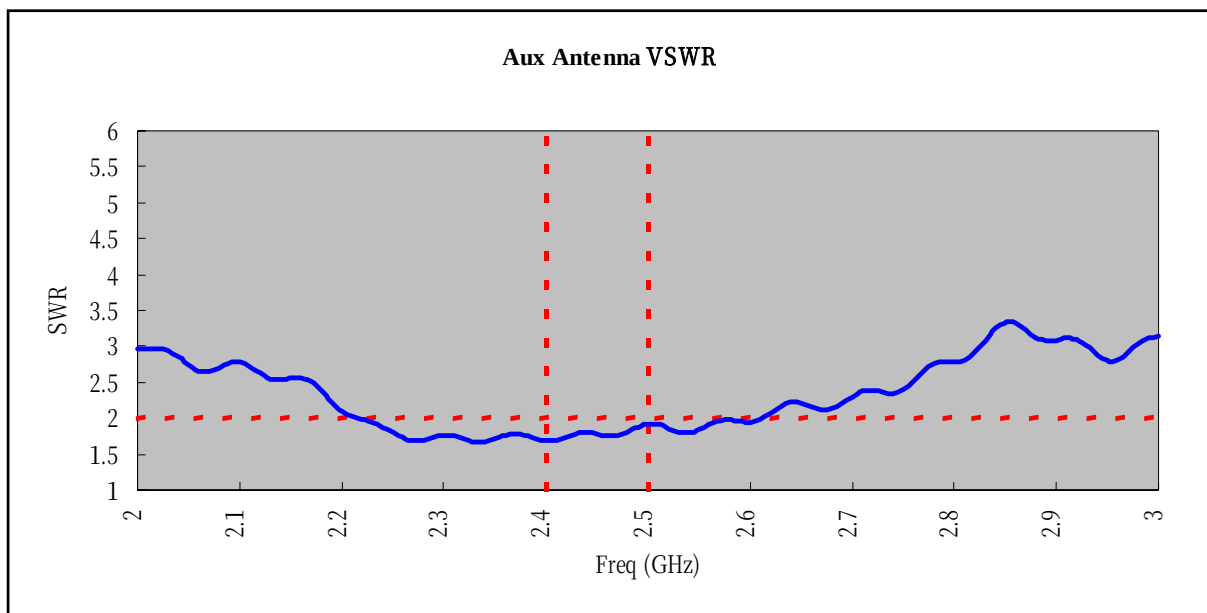
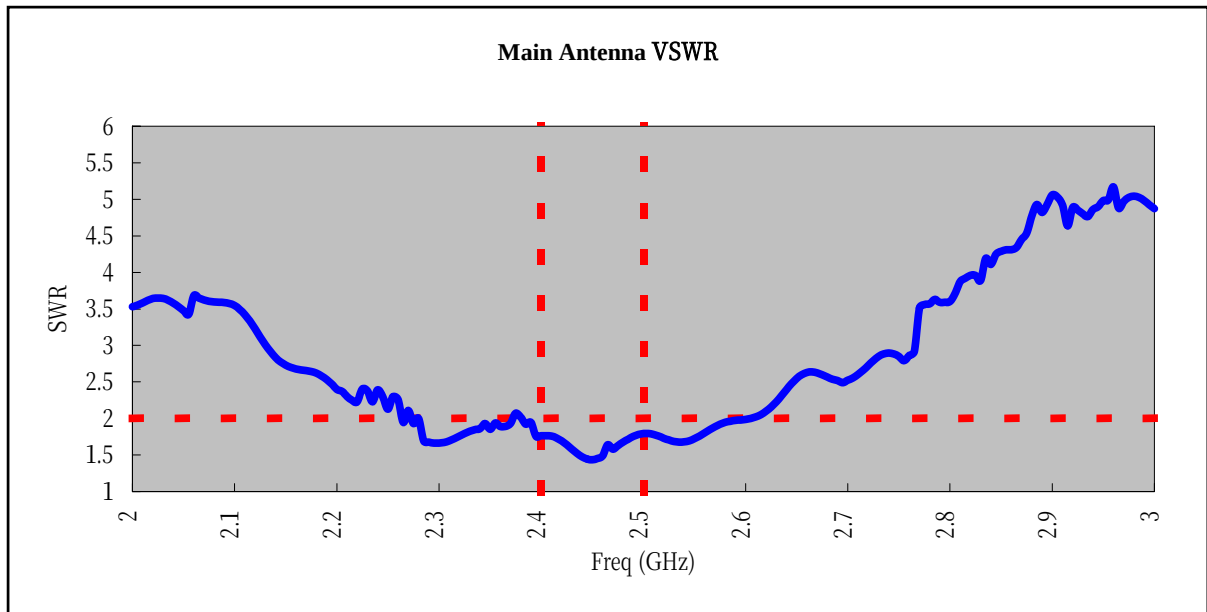
Equipment:

1. RF Network Analyzer, HP8720D
2. Anechoic Chamber
3. Double-Ridged Waveguide Horn
4. Rotational Platform with step motor

Antenna Gain and Radiation Pattern Measuring Structure Diagram

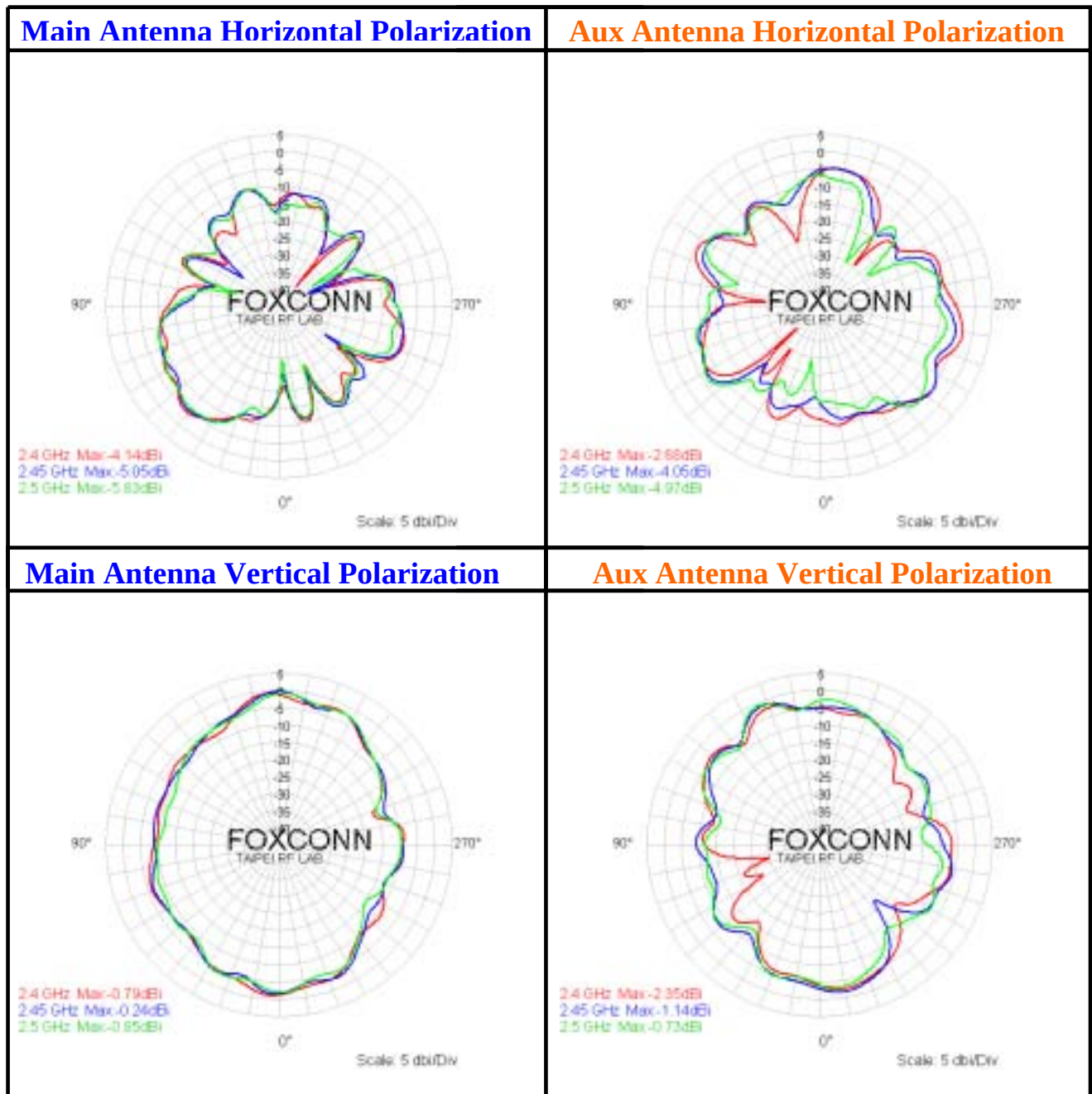


1. VSWR @ 2.0 ~ 3.0 GHz



Marker Point (GHz)	2.400	2.450	2.500
Main Antenna VSWR Value	1.764	1.437	1.794
Aux Antenna VSWR Value	1.683	1.785	1.922

2. Antenna Radiation Pattern @ 2.40 ~ 2.50 GHz



Main Antenna Average Gain

Freq (GHz)	2.40	2.45	2.50
XY-H (dBi)	-11.726	-11.667	-12.215
XY-V (dBi)	-5.510	-5.620	-6.065
Average Gain	-4.579	-4.656	-5.121

Main Antenna Peak Gain

Freq (GHz)	2.40	2.45	2.50
XY-H (dBi)	-4.14	-5.05	-5.83
XY-V (dBi)	-0.79	-0.24	-0.85

Aux Antenna Average Gain

Freq (GHz)	2.40	2.45	2.50
XY-H (dBi)	-8.829	-9.395	-10.683
XY-V (dBi)	-7.247	-6.430	-6.839
Average Gain	-4.956	-4.654	-5.339

Aux Antenna Peak Gain

Freq (GHz)	2.40	2.45	2.50
XY-H (dBi)	-2.68	-4.05	-4.97
XY-V (dBi)	-2.35	-1.14	-0.73

3. Antenna Photo for R & L

