

QUBE 6010 866MHz Quadrifilar Antenna



QUBE 6010 866MHz UHF RFID Antenna Specification



QUBE 6010 866MHz

Quadrifilar Antenna

Part Name

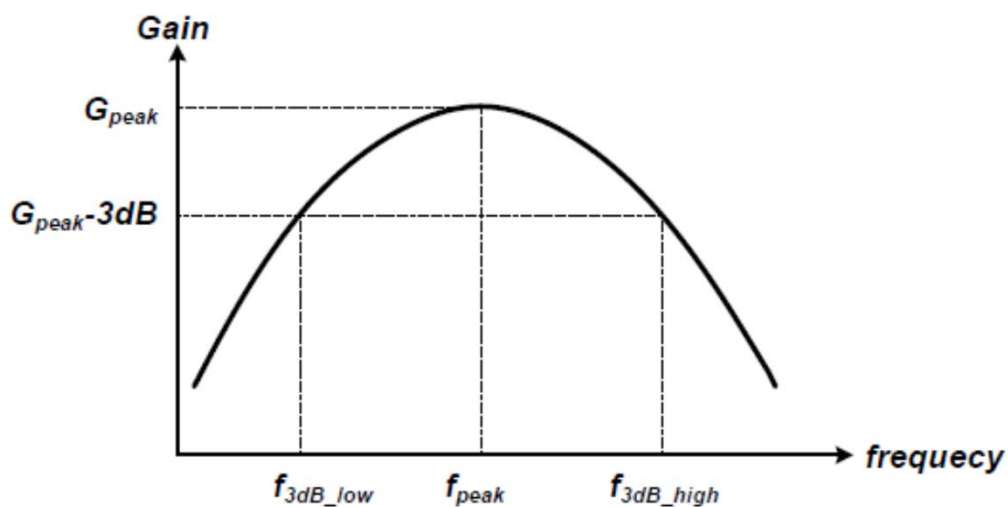
KSA-866A6010A80B with **SMA** connector

KSA-866A6010B80B with **UFL** connector

Electrical Specifications

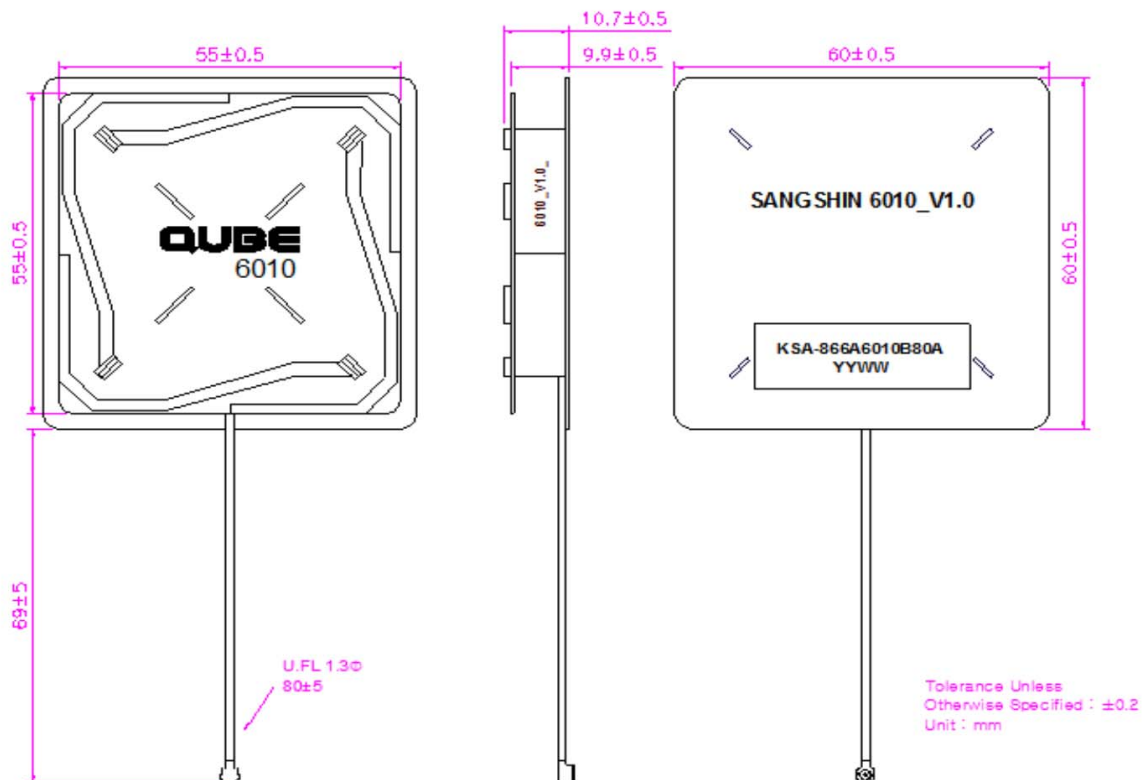
Item	Specifications			
	Min.	Typical	Max.	Unit
Center Frequency (= Fc)	863	866	870	MHz
Operating Frequency	$F_c \pm 8$	$F_c \pm 12$		MHz
Return Loss @ Operating Frequency			-15	dB
Polarization	R.H.C.P			
Gain @ Fc (RHCP)		2		dBic
Gain @ Reference Antenna		-13		dB
Axial Ratio @ Fc			1.3	
Beamwidth (@3dB)	80	100		degree
Impedance		50		Ω
Operating Temperature	-30		+70	$^{\circ}\text{C}$
Weight		14		g

Note 1. Operating frequency is defined as frequency range between f_{3dB_low} and f_{3dB_high} .

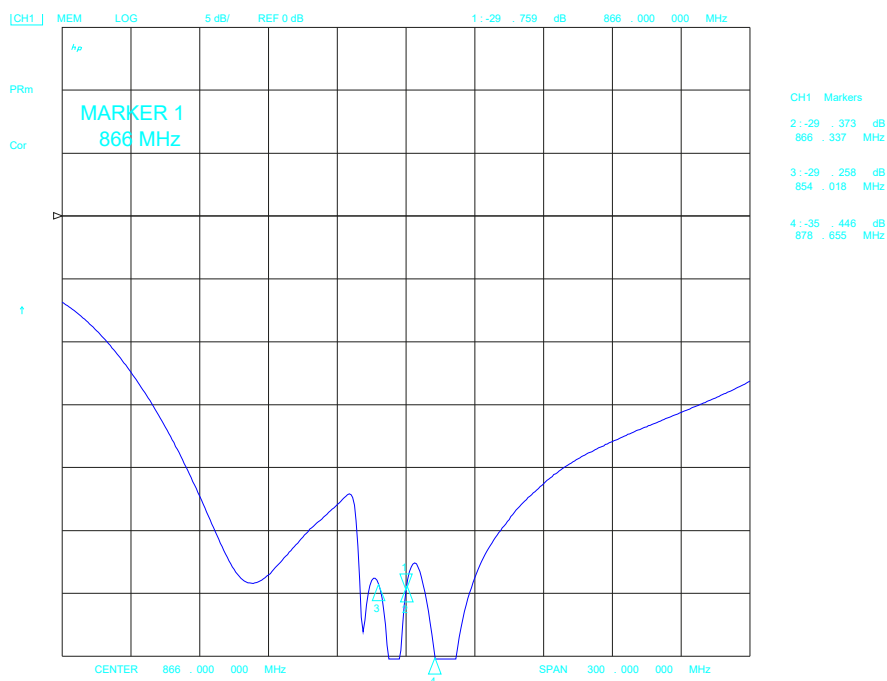


QUBE 6010 866MHz Quadrifilar Antenna

Dimensions

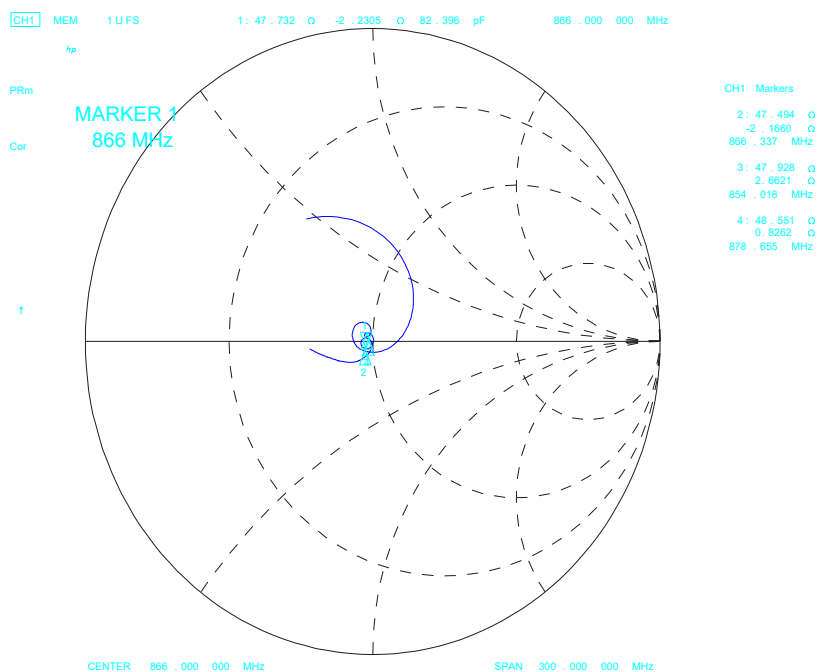


S-parameter Return Loss

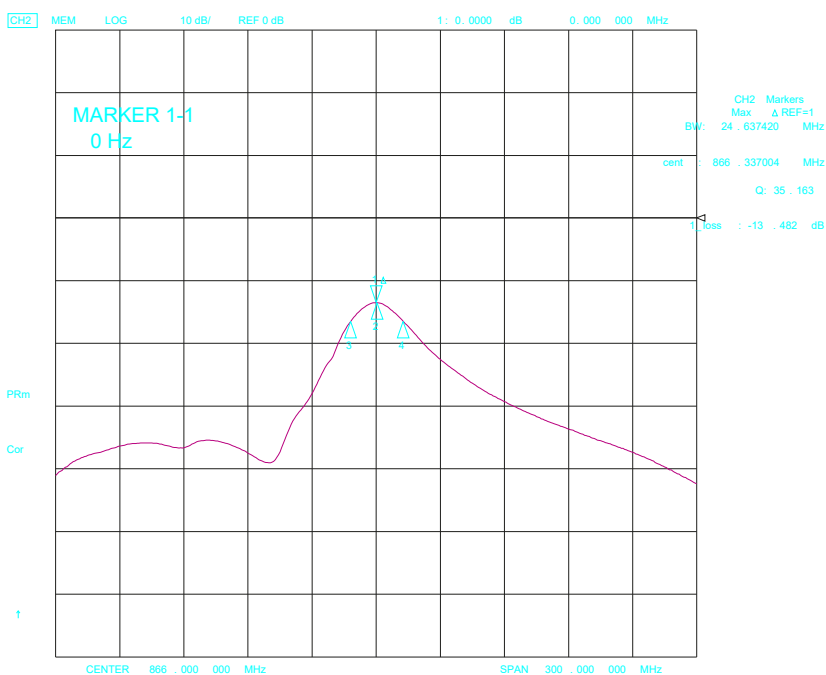


QUBE 6010 866MHz Quadrifilar Antenna

Smith Chart



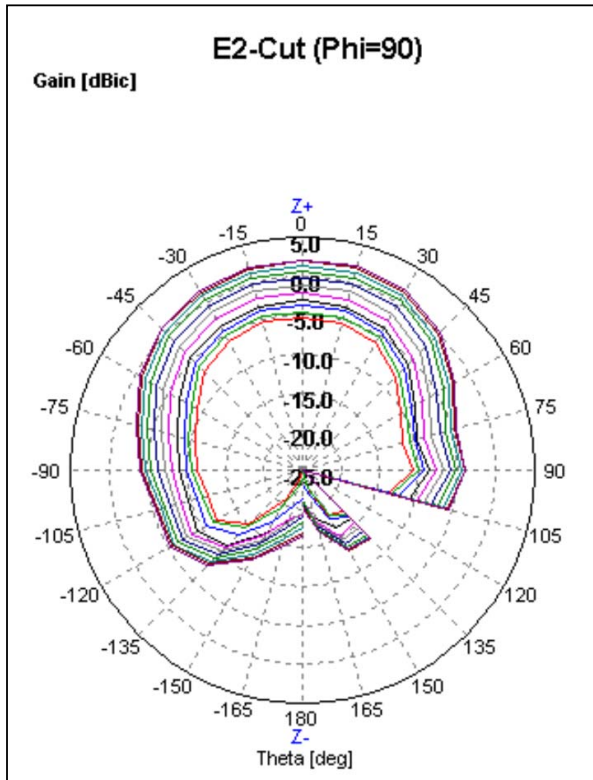
Gain



QUBE 6010 866MHz Quadrifilar Antenna

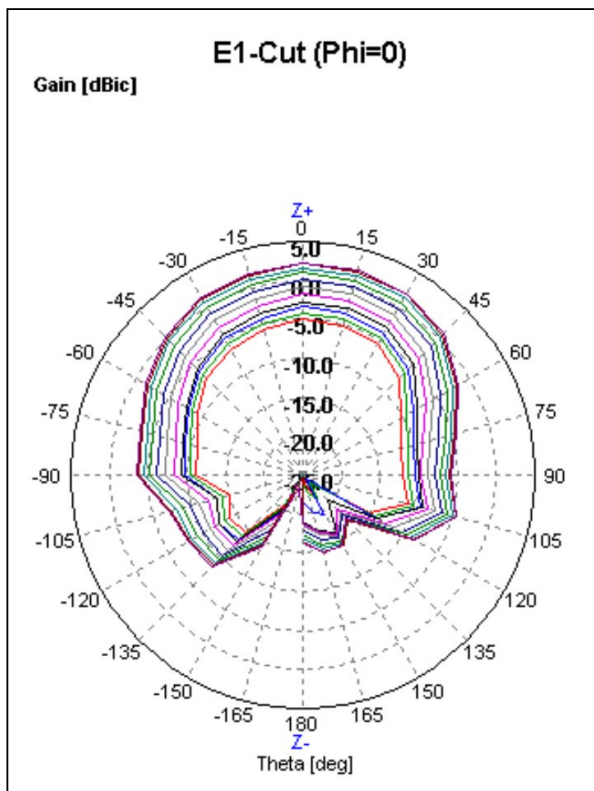
Antenna Chamber Data

E-Plane



Frequency [MHz]	Gain [dBic]
836	-5.23
839	-4.51
842	-3.75
845	-3.15
848	-2.17
851	-1.19
854	-0.20
857	0.68
860	1.39
863	1.92
866	2.13
869	1.89
872	1.37
875	0.74
878	-0.03
881	-0.84
884	-1.54
887	-2.23
890	-2.90
893	-3.63
896	-4.22

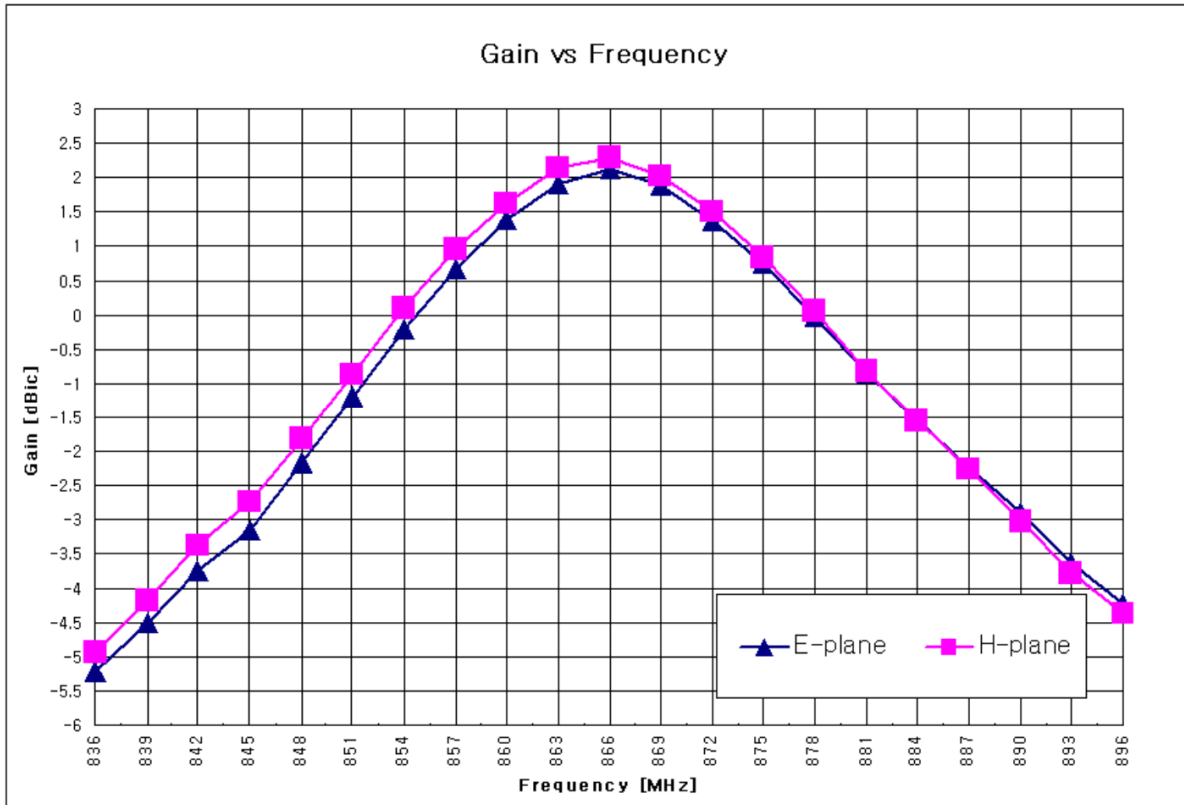
H-Plane



Frequency [MHz]	Gain [dBic]
836	-4.93
839	-4.17
842	-3.37
845	-2.74
848	-1.81
851	-0.85
854	0.12
857	0.97
860	1.63
863	2.14
866	2.30
869	2.04
872	1.50
875	0.84
878	0.06
881	-0.81
884	-1.54
887	-2.25
890	-3.02
893	-3.77
896	-4.36

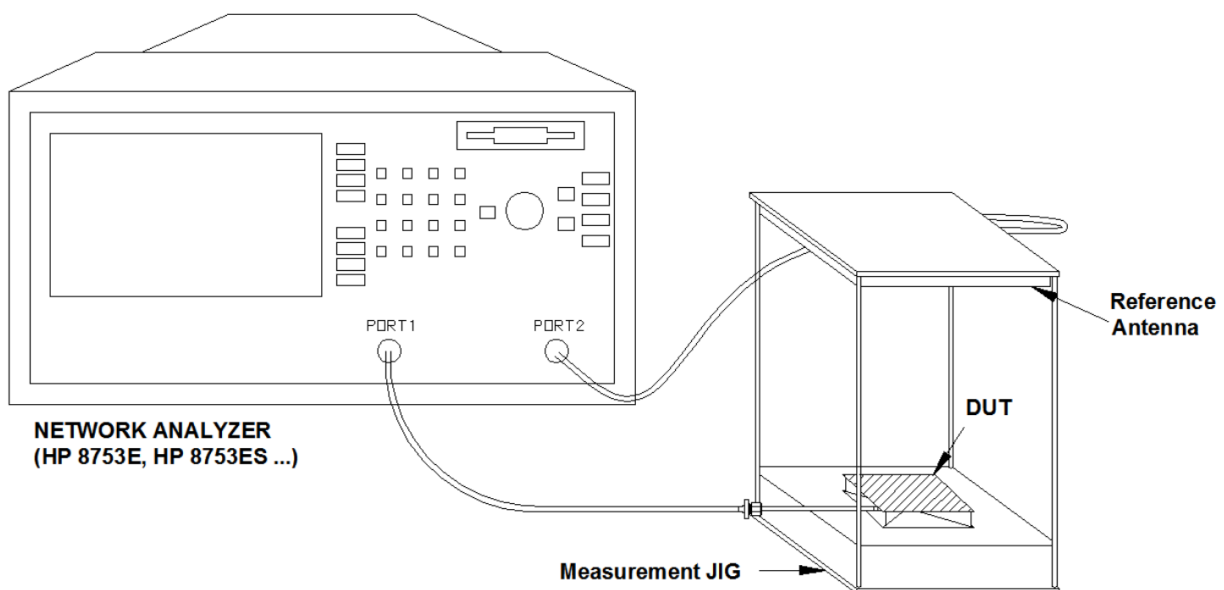
QUBE 6010 866MHz Quadrifilar Antenna

Gain vs frequency



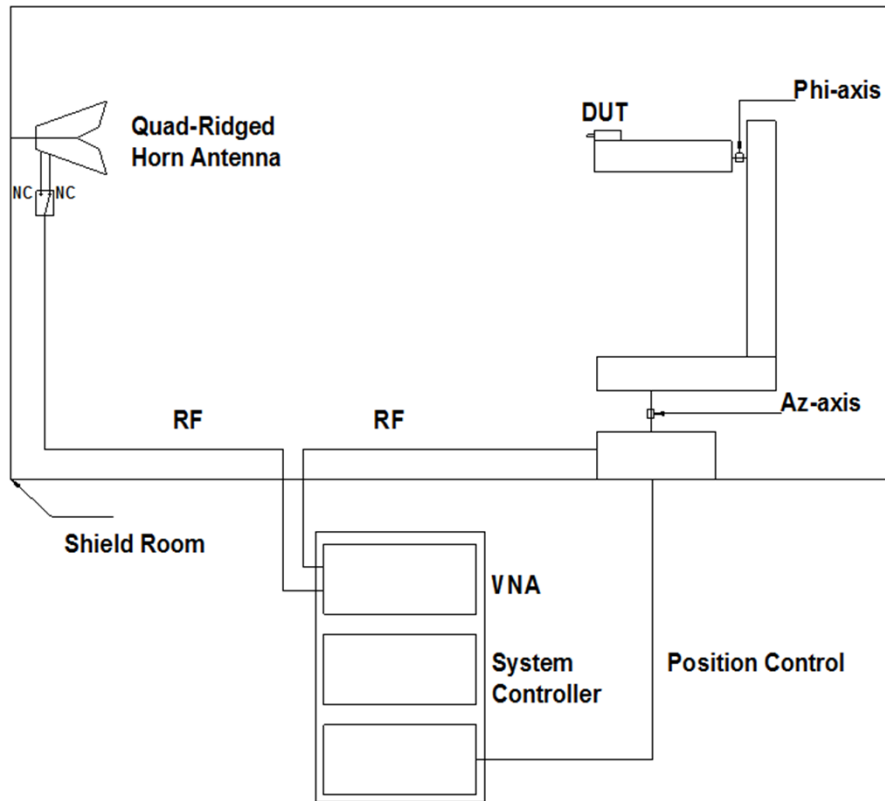
Measurement Condition

S-parameter Measurement



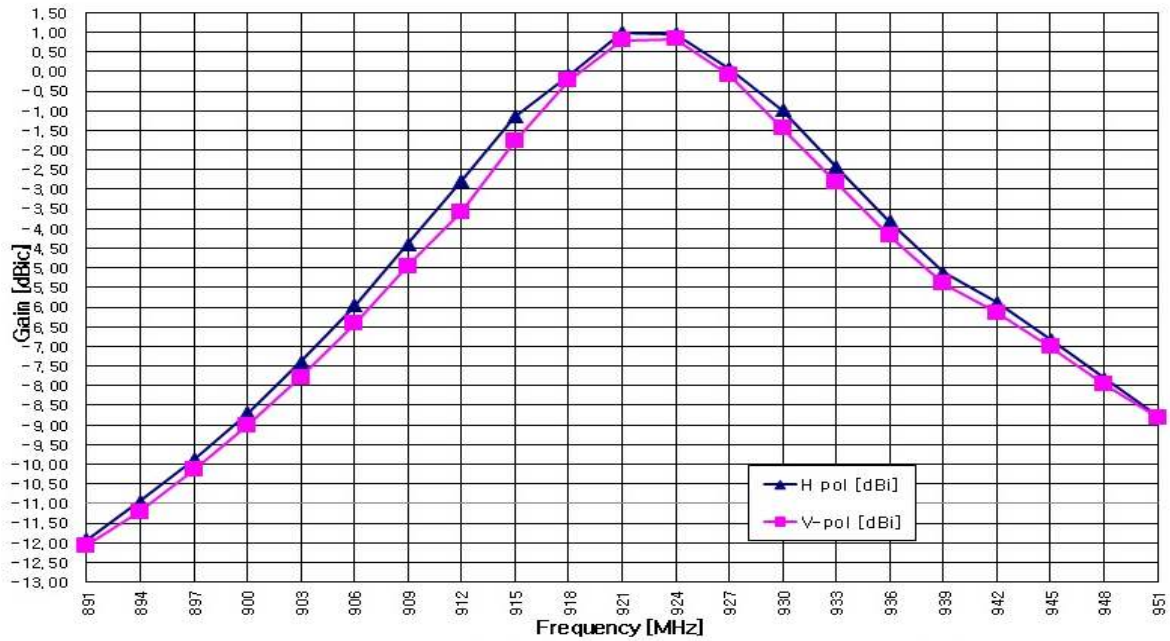
QUBE 6010 866MHz Quadrifilar Antenna

Gain Measurement



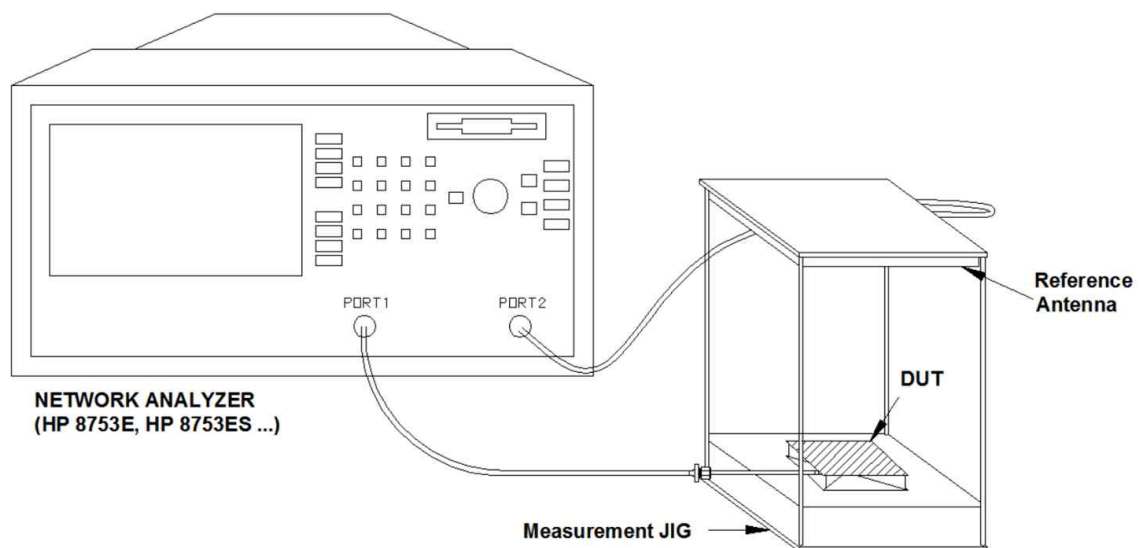
QUBE 6010 866MHz Quadrifilar Antenna

Gain vs Frequency



Measurement Condition

Parameter Measurement



QUBE 6010 866MHz Quadrifilar Antenna

Gain Measurement

