Document NO.	KAT-1306-IN024P
Maker Code	KIN-WIFI-MS1304
DATE	2013. 06. 28
Page	1 / 9

Model	Type	Rev.	DONGNAM	IR
G66	Built in Antenna		M7 SYSTEM	A

APPROVAL SHEET

Customer : M7 SYSTEM

Company : DONGNAM

Item : Built in Antenna

Model : G66

Customer P/N :

Maker Code : KIN-WIFI-MS1304

Department	Investigation	Verification	Approval
Circuit			
Machine			
Safety			

PART NO.	
Maker Code	KIN-WIFI-MS1304
DATE	2013. 06. 28
Page	2 / 9

Model	Type	Rev.	DONGNAM	IR
G66	Built in Antenna		M7 SYSTEM	A

▶ Contents ◀

PART NO.	
Maker Code	KIN-WIFI-MS1304
DATE	2013. 06. 28
Page	3 / 9

Model	Type	Rev.	DONGNAM	IR
G66	Built in Antenna		M7 SYSTEM	A

1. Revison History of Product Specification

1.1 History List of Approval Sheet

History List of Approval Sheet

NO.	Rev.		Rev. DATE	Detailed Contents of Revision	Amount	Request Dept.	Progress Stage
	M7 SYSTEM	DONGNAM					
1	A	IR	2013.06.28	Approval Publication	—	Quality Dept.	WS2

2. Circuit Specification

2.1 Test Setting

2.1.1 Test Environment (Condition/Method)

① VSWR

Step 1. Connect ANT port with cable included adaptor to port1 of Network analyzer

Step 2. Point out markers on network analyzer display at target frequencies.

Step 3. Inspect VSWR

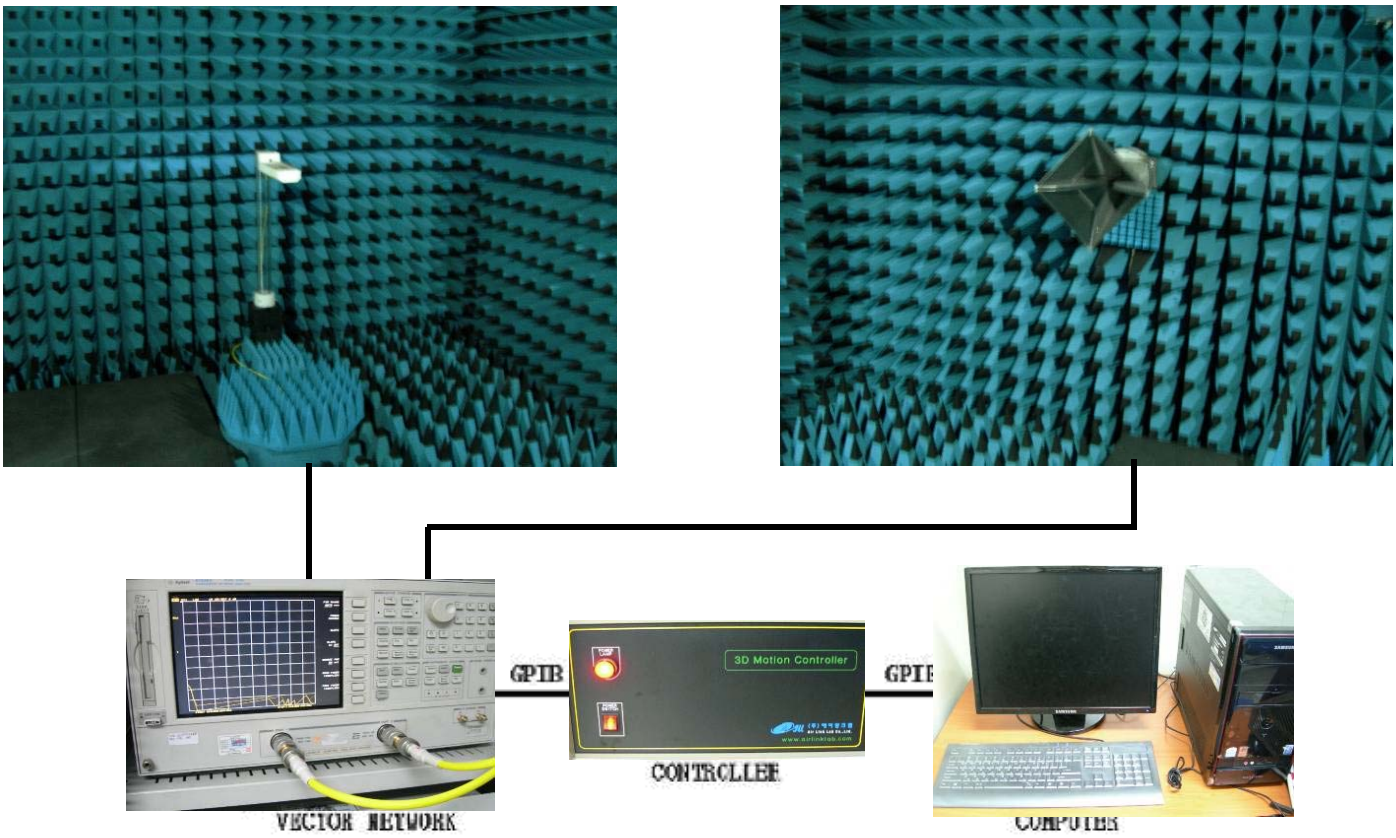
Model	Type	Rev.	DONGNAM	IR
G66	Built in Antenna		M7 SYSTEM	A

② Radiation Pattern adn Gain

Step 1. Calibrate chamber system for gain measurement using horn antenna.
At the same time set up software program for chamber system control.

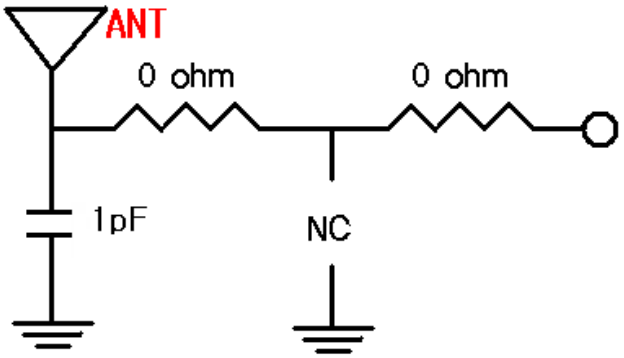
Step 2. Change over from a horn antenna to measuring antenna on target positioner

Step 3. Start a software program for chamber system control & measuring.



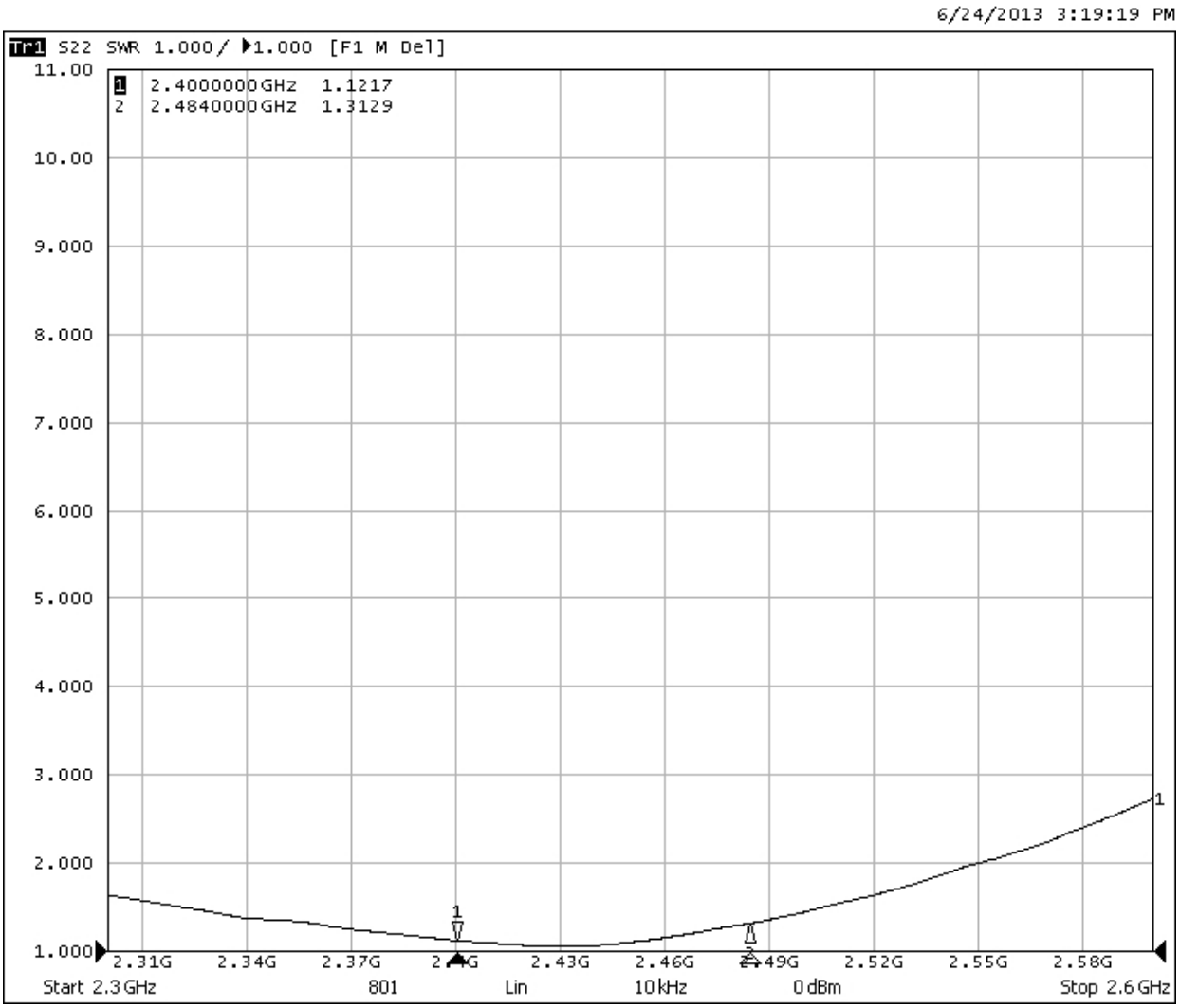
Model	Type	Rev.	DONGNAM	IR
G66	Built in Antenna		M7 SYSTEM	A

2.2 Electrical Specification

Frequency	WIFI 2400MHz	WIFI 2445MHz	WIFI 2485MHz
VSWR	≤ 2.0	≤ 2.0	≤ 2.0
Peak Gain (dBi)	≤ 1.0	≤ 3.0	≤ 1.0
Average Gain (dBi)	≤ -4.0	≤ -2.0	≤ -4.5
Directivity	Omni-directional		
Polarization	Linear		
Matching Value			

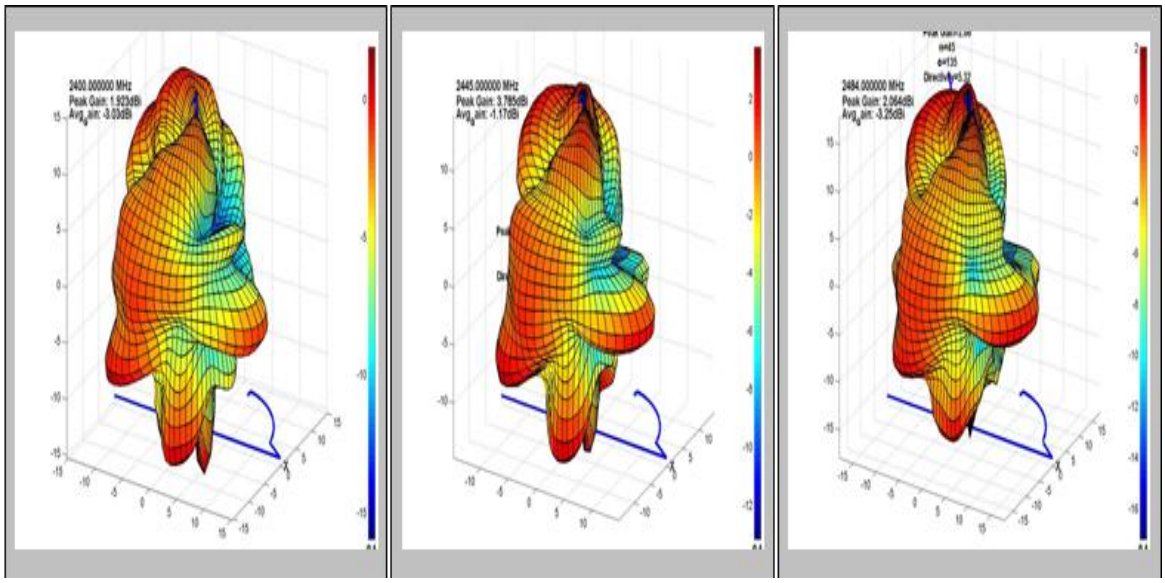
2.2.1 Electrical Spec. of Set (With VSWR)

BAR TYPE



2.2.2 Passive Gain & 3D Pattern

BAR TYPE



Frequency	Efficiency	Average Gain			Max Gain			Max Position	Directivity
		Ver	Hor	Total	Ver	Hor	Total		
2400.000000 MHz	49.7 %	-6.6 dBi	-5.6 dBi	-3.0 dBi	0.4 dBi	-0.1 dBi	1.9 dBi	Theta90/Pie135	4.96 dB
2445.000000 MHz	76.2 %	-4.4 dBi	-4.0 dBi	-1.2 dBi	2.4 dBi	2.0 dBi	3.8 dBi	Theta105/Pie150	4.96 dB
2484.000000 MHz	47.2 %	-6.9 dBi	-5.7 dBi	-3.3 dBi	0.1 dBi	1.1 dBi	2.1 dBi	Theta45/Pie135	5.32 dB

3. Mechanical Specification

3.1 Assy Drawing