



Specification For Approval

Type	Dipole – ANT
Model Name	SB – 24D – ANT
Part No	
Issued Date	2011. 06. 22

Charge	Inspector	Approval
		

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Model Name	Part No	Rev	Page
SB - 24D		0.0	2 / 8

CONTENTS

1. Revision History	3
2. Specification	 4
3. Electrical Specification Test	
3.1 V.S.W.R	5
3.2 Beam Pattern	7
4. Appearance	9



1. Revision History

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Model Name	Part No	Rev	Page
SB – 24D		0.0	4 / 8

2. Specification

2.1. Electrical Specification

Item	Spec	Remarks
Center Frequency	2441MHz	
Frequency Range	2400MHz – 2500MHz	
V.S.W.R	Less Than 2.0	
Gain(dBi)	2.1dBi (Max)	
Radiation pattern	Omni-directional	
Polarization	Linear	
Impedance	50 Ω Normal $\pm$ 10	

2.2. Mechanical Specification

Item	Spec	Remarks
Dimensions(LxWxH)	136 x 1.13	mm
Connector	Soldering	
Color	Black	
Operating Temperature	-45 $^{\circ}$ C ~ +85 $^{\circ}$ C	
Weight	8g $\pm$ 0.2g	

2.3. Major Materials Of Parts

Item	Materials	Remarks
Sleeve	Keyflex	
Ground Plane	C3604	
Jonit	Nylon	
Coaxial Cable	Jacket,Teflon,swc,cu	



Model Name	Part No	Rev	Page
SB - 24D		0.0	5 / 8

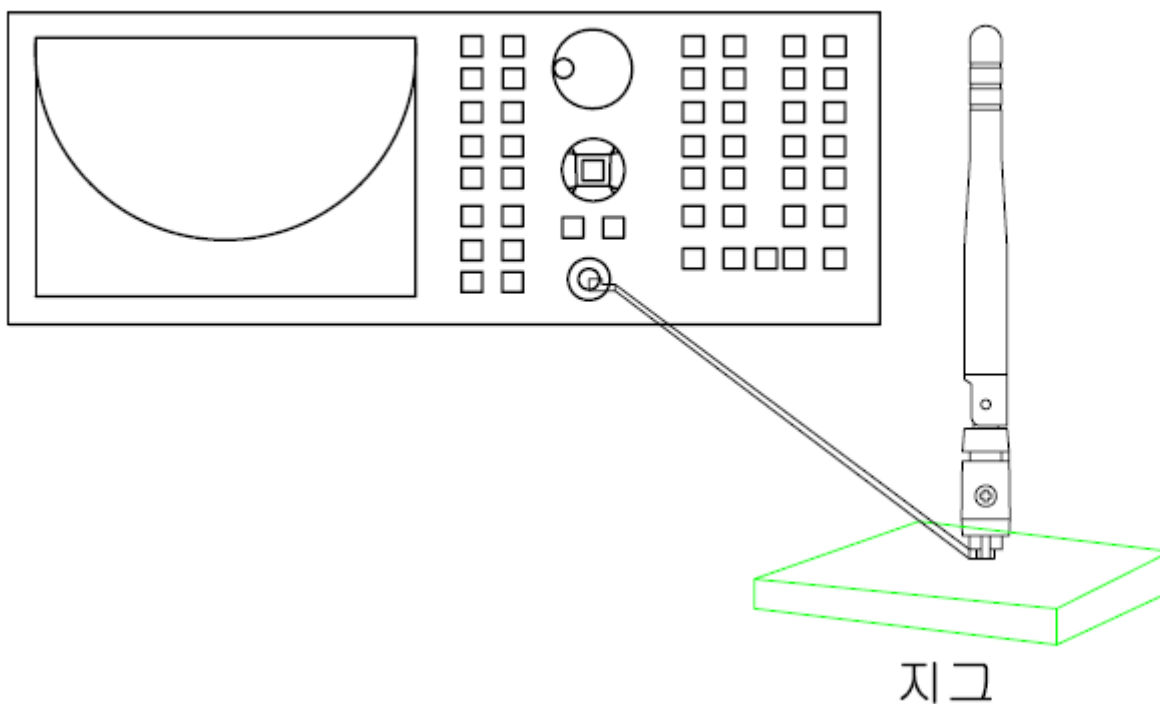
3. V.S.W.R Test

3.1. Test method

① Network Analyzer Spec

Equipment	Model	Specification
Network Analyzer	HP8753ES	· Freq. Range : 300KHz ~ 6GHz
Calibration Kit	HP85032B	· DC ~ 6GHz (SMA-Type)

② Network Analyzer test method



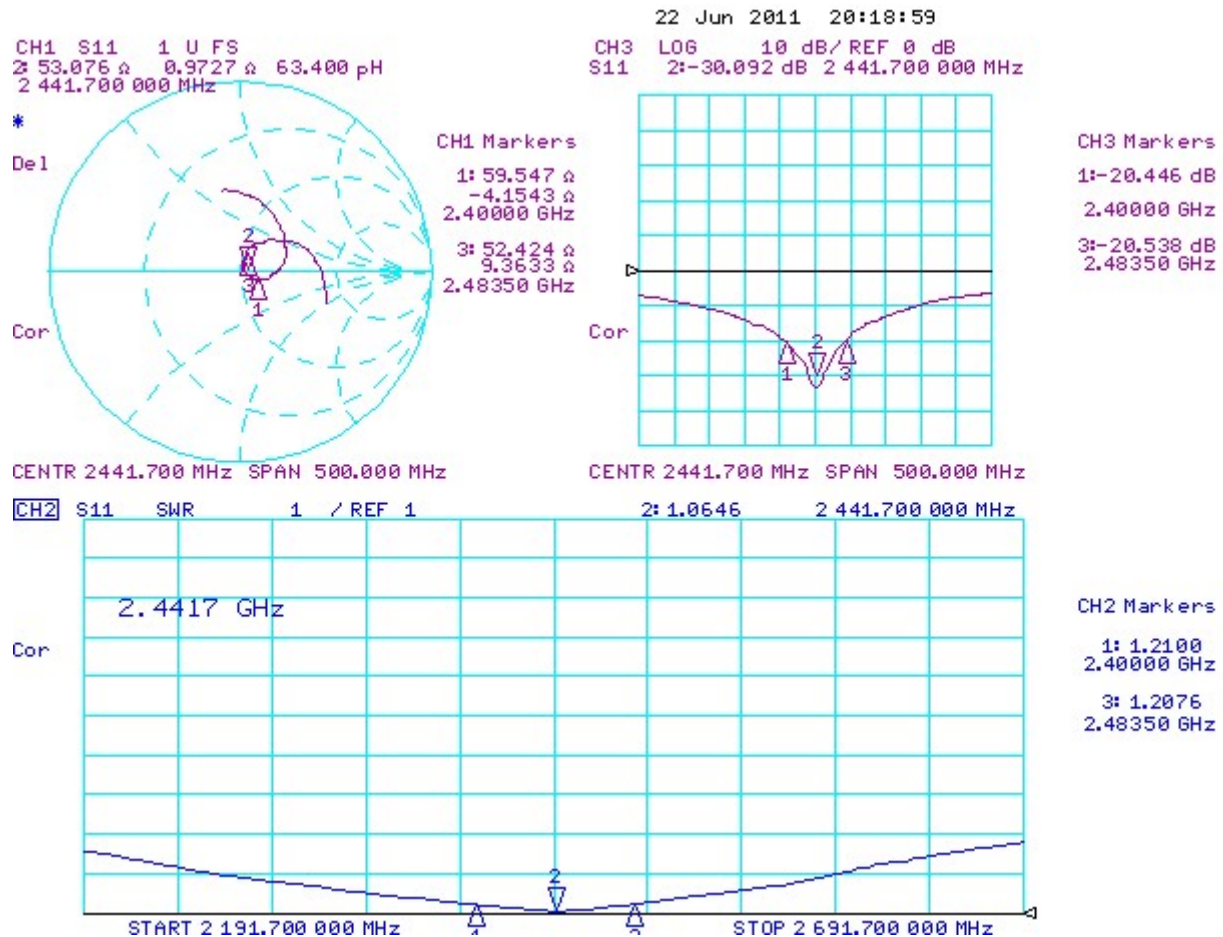


Model Name	Part No	Rev	Page
SB - 24D		0.0	5 / 8

3. Electrical Specification

3.2 V.S.W.R

DATA



Frequency	VSWR	Remarks
2400MHz	1.21	
2441MHz	1.06	
2483MHz	1.20	

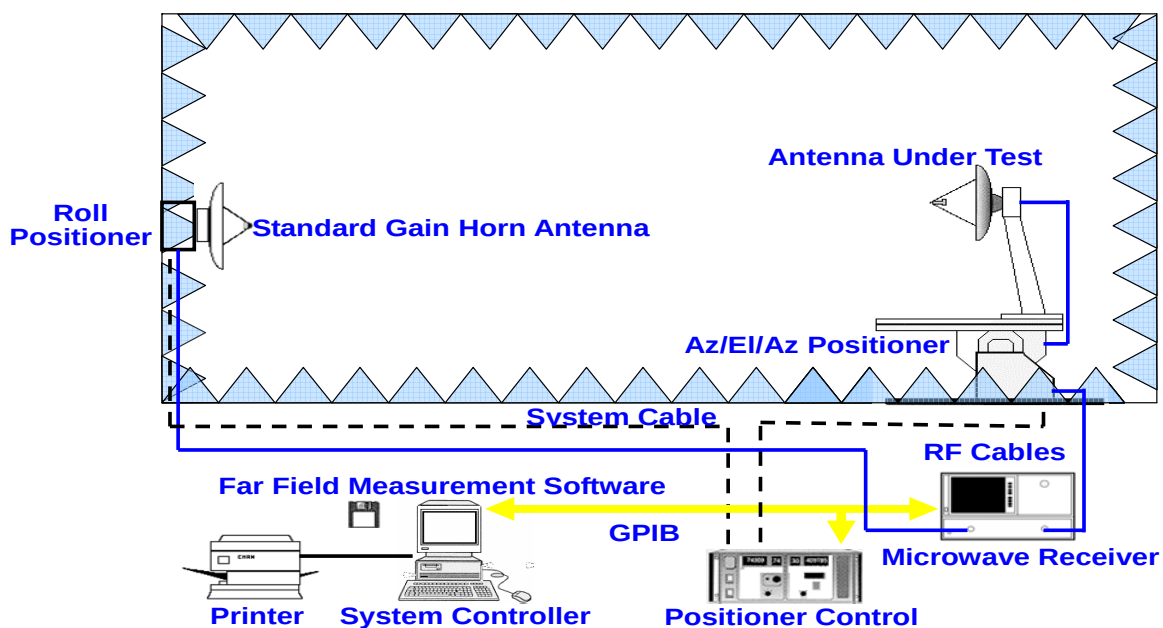


2.2 Gain & Beam Pattern Test

① Chamber Spec

Section	Specification
Chamber Size	6(L)m X 3(W)m X 3(H)m
Frequency Range	400MHz – 6GHz (Far Field)
Quiet Zon	1m X 1 m @ 1GHz
Type	Rectangular
Antenna weight	< 50 kg

② Chamber Test method





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3.2. Gain & Beam Pattern

Model Name

Part No

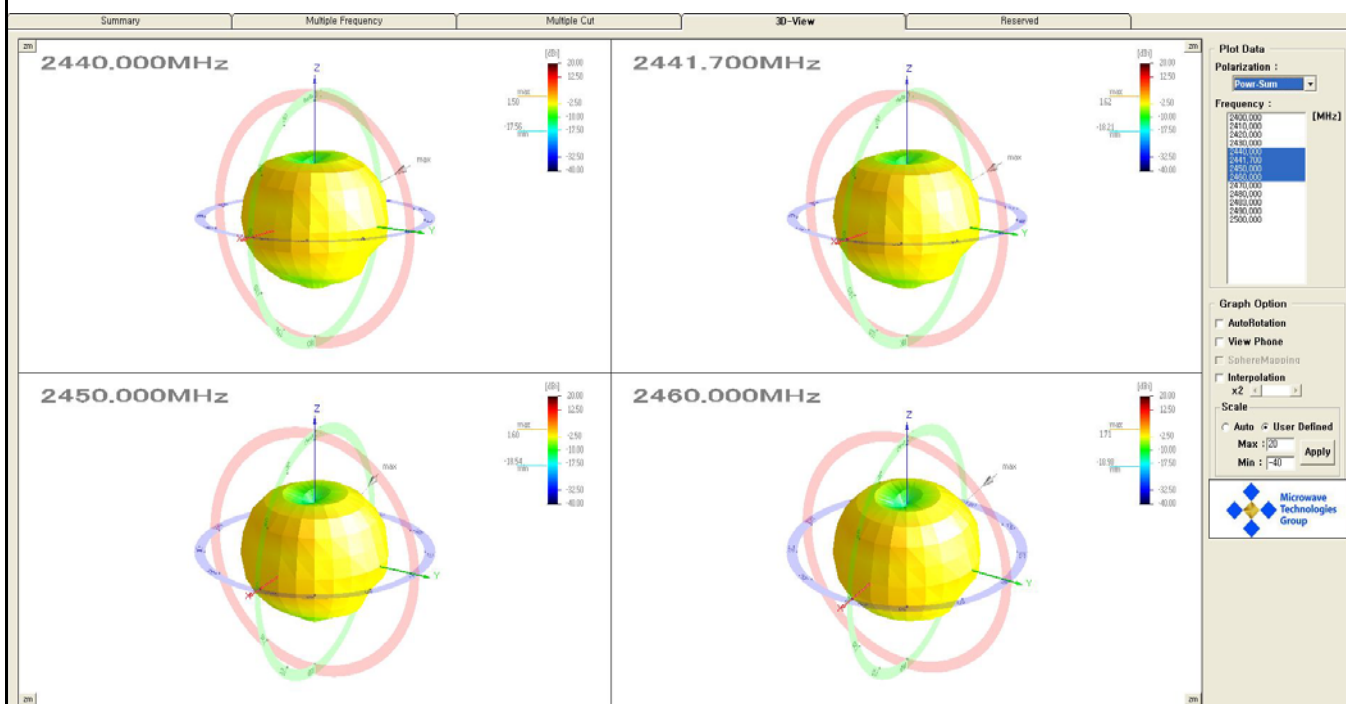
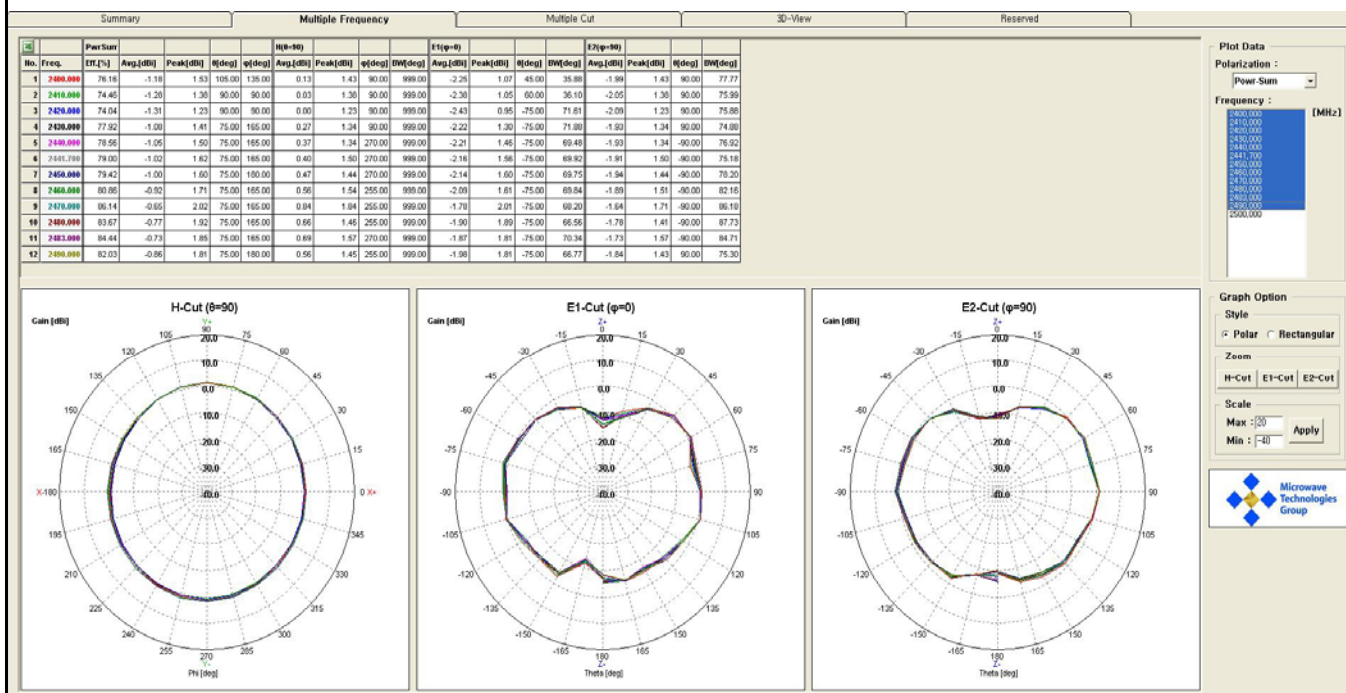
Rev

Page

SB - 24D

0.0

6 / 8



Frequency	Gain(dBi)	
2400MHz	1.53	
2441MHz	1.62	
2483MHz	1.85	

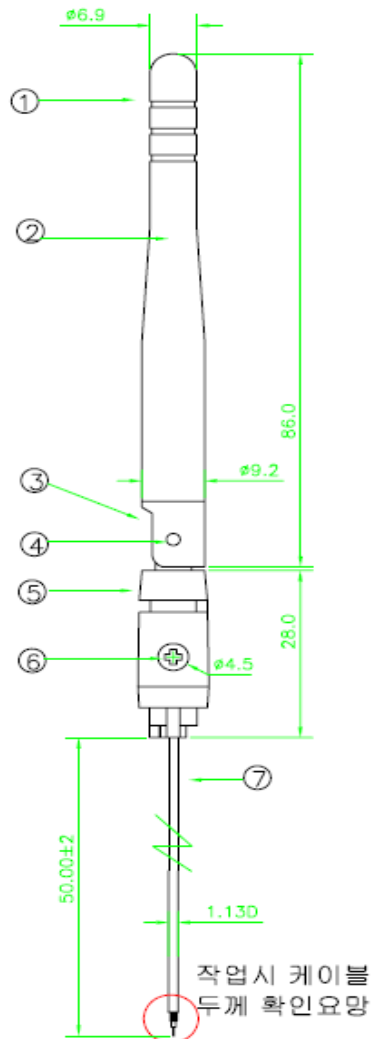


4. Drawing

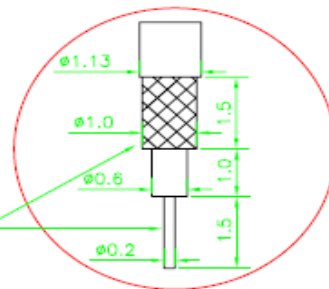
CONTROLLED DRAWING

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NO	DESCRIPTION	MATERIAL	SIZE	PART NO	Q'TY
1	SLEEVE	Keyflex	ø9.3x76L		
2	Ground Plane	C3604 / NI	ø5.9x24L		
3	JOINT A	Nylon			
4	PIN	C3604	ø2.0x3L		
5	JOINT B	Nylon			
6	Bolt		ø4.5		
7	COAXIAL CABLE		1.13d		



Soldering

UNLESS OTHERWISE
SPECIFIED TOLERANCES

0 ~ 4	±0.1	4				SAE HAN ANTENNA	NAME OF TITLE
4 ~ 16	±0.15	3				SCALE	Dipole ANT
16 ~ 63	±0.2	2				UNITS	MODEL No.
63 ~ 250	±0.3	1				DATE	SB-24D
250 ~	±0.5	NO	DATE	DESCRIPTION OF REVISION	SIGN	DRAWN/DESIGNED	DRAWING/PART No.
						CHECKED	APPROVED No.
						HWANG DONG MIN	USE FREQUENCY (MHz)
							2.4 GHz