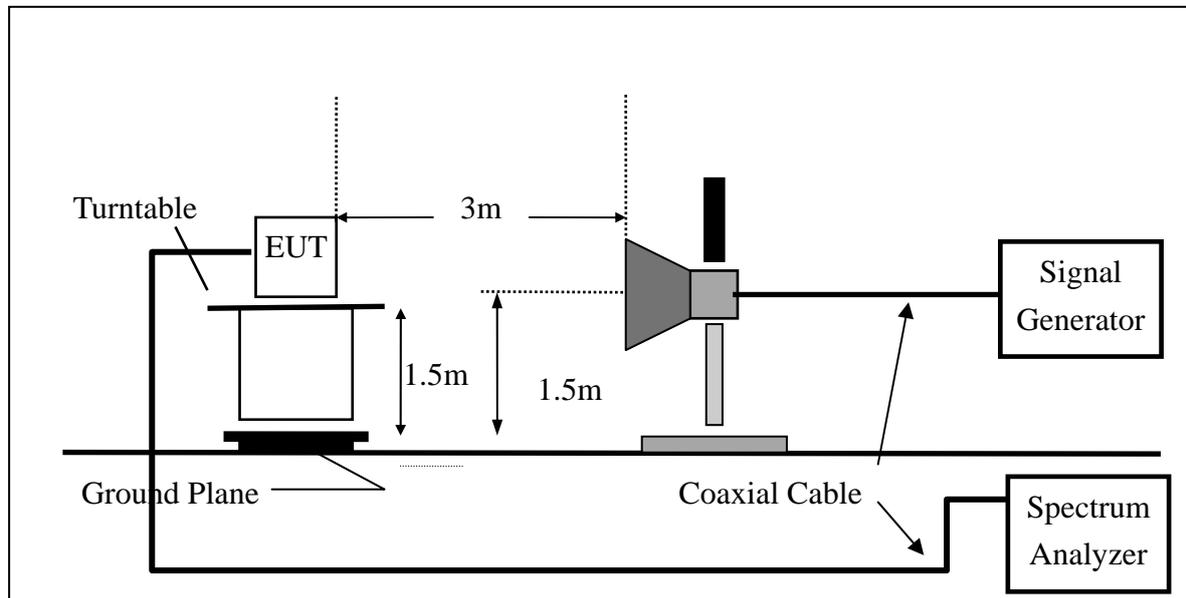


ANTENNA TEST REPORT**FOR****Product Name: Bluetooth in-car Speakerphone****Brand Name: Plantronics****Model Name: K100****Report No.: EF/2010/70001****Issue Date: July. 21, 2010****Prepared for: Plantronics, Inc.****345 Encinal Street, Santa Cruz, CA95060 USA****Prepared by: SGS Taiwan Ltd.****Electronics & Communication Laboratory****No. 134, Wu Kung Rd., Wuku Industrial Zone,
Taipei County, Taiwan.**

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Test By:**Date:****July. 21, 2010****Bondi Liu / Engineer**

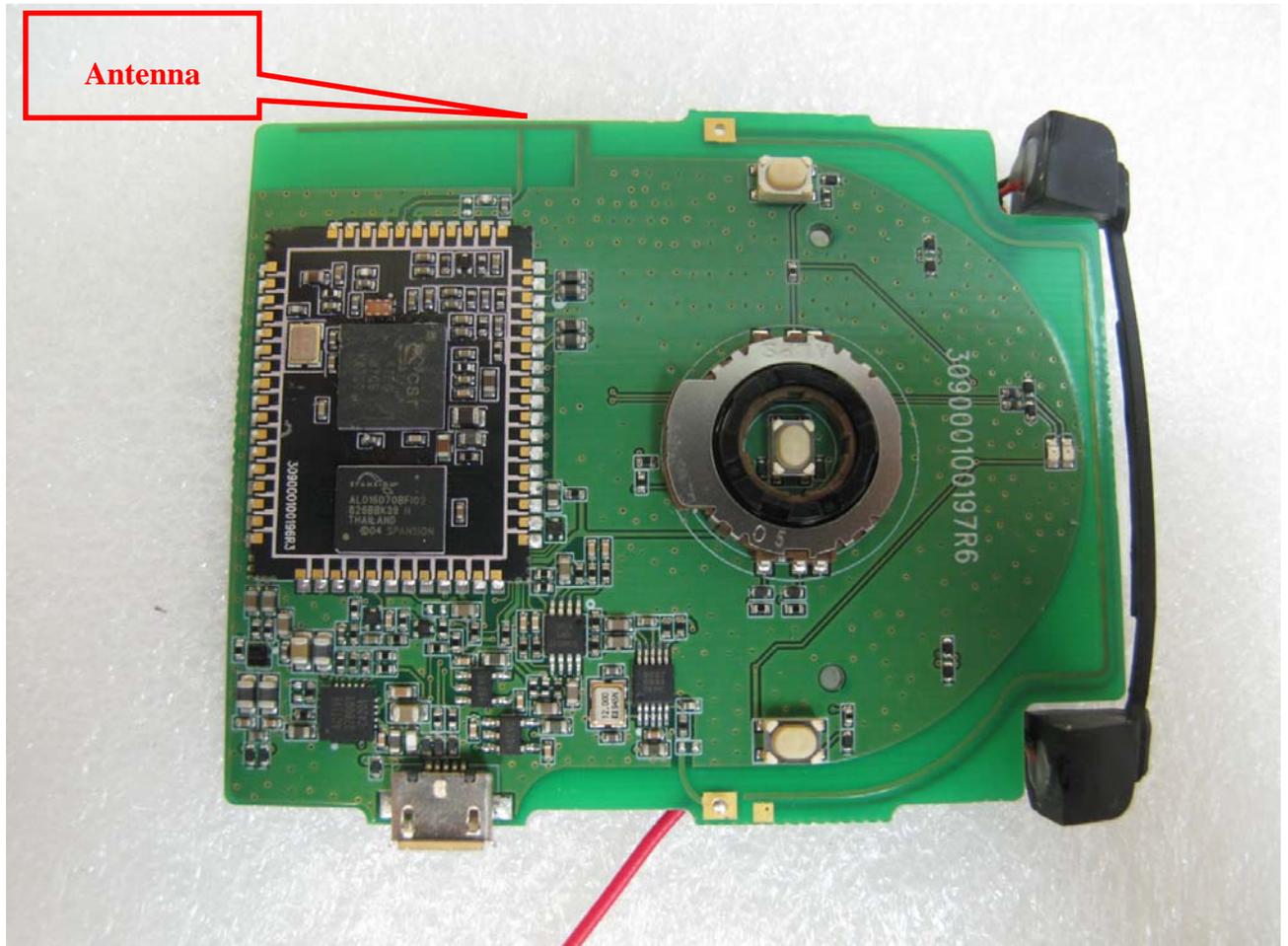
1. Test SET-UP (Block Diagram of Configuration)

Measurement Equipment Used:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.	Cal. Lab.	Note
Horn antenna	Schwarzbeck	BBHA 9120D	309	01/25/2010	01/24/2012	ETC	Calibration based on the article 24-2-4-2-Ha of the radio law
Horn antenna	Schwarzbeck	BBHA 9120D	673	05/05/2010	05/04/2012	Schwarzbeck	
Signal Generator	R&S	SMR40	100210	02/10/2010	02/09/2012	ETC	
Spectrum Analyzer	Agilent	E4407B	MY41444896	01/12/2010	01/11/2012	Agilent	
Turn Table	HD	DT420	N/A	N.C.R	N.C.R	N/A	
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R	N/A	
Controller	Chance Most	886	N/A	N.C.R	N.C.R	N/A	
844 chamber	Chance Most	Fully chamber	S0009174	N.C.R	N.C.R	N/A	

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Geometry of structure

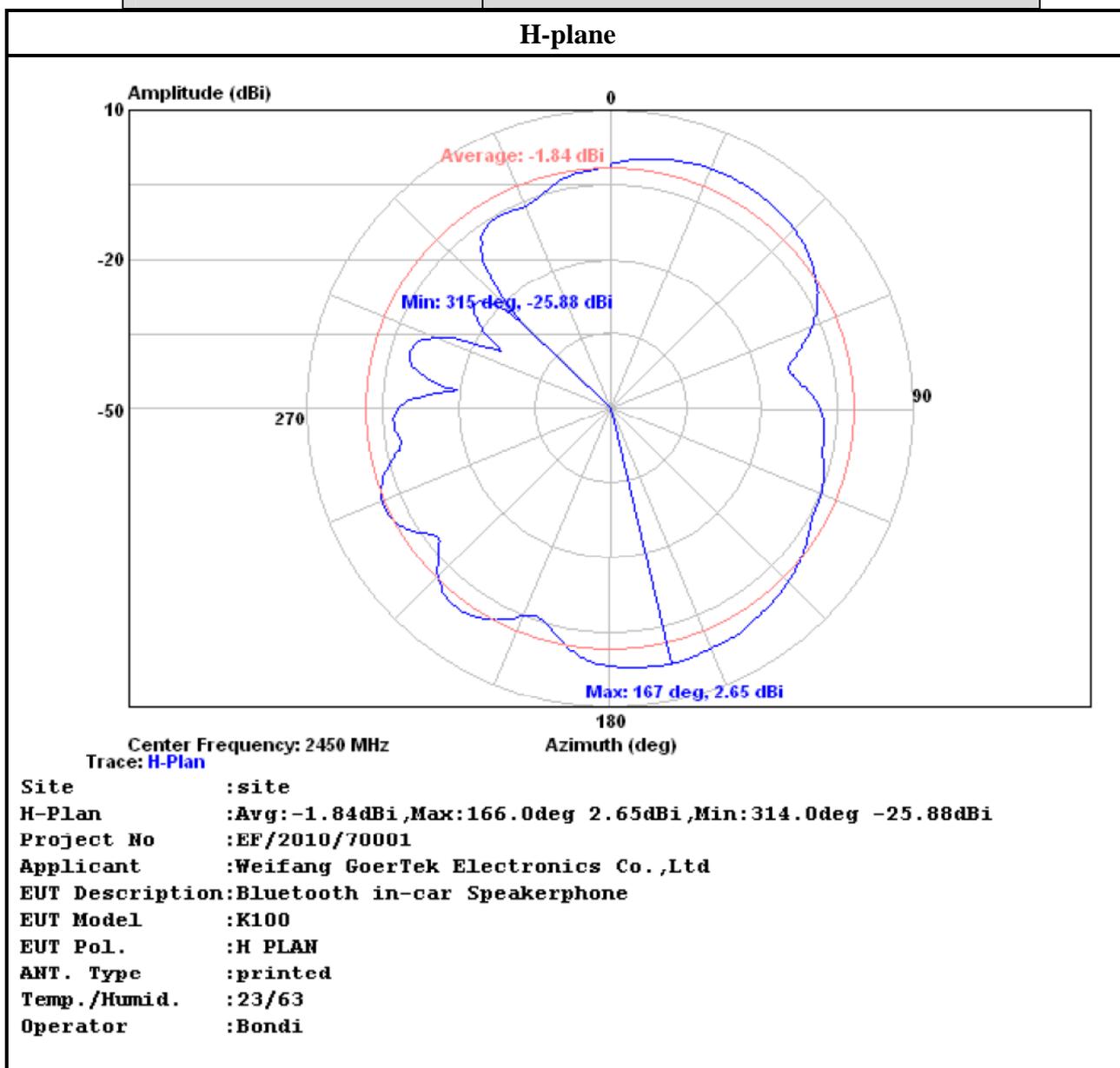
Figure 1



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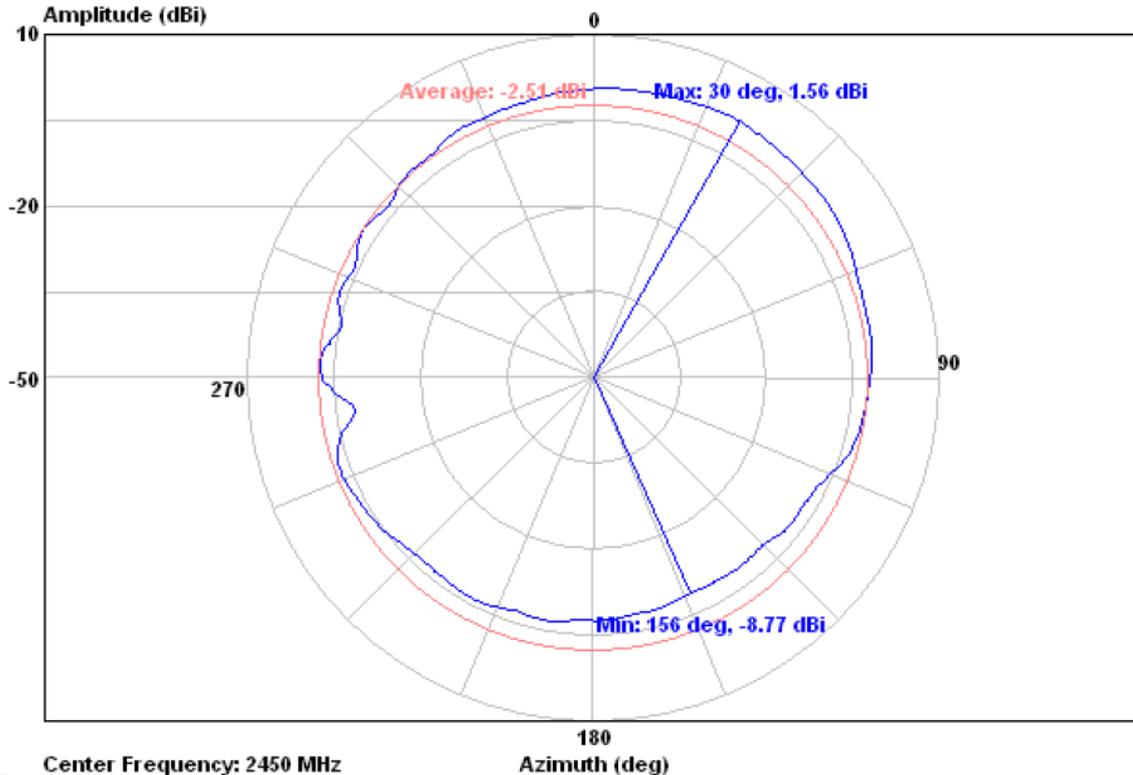
3. Test Result:

2450 MHz Test Result:	
Antenna type	Printed antenna
H-Plane antenna Peak Gain	= 2.65 dBi
H-Plane antenna Average Gain	= -1.84 dBi
E1-Plane antenna Peak Gain	= 1.56 dBi
E1-Plane antenna Average Gain	= -2.51 dBi
Impedence	= 50.1 ohms
VSWR	≤ 2



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E1-plane



Site :site

V-Plan :Avg:-2.51dBi,Max:30.0deg 1.56dBi,Min:156.0deg -8.77dBi

Project No :EF/2010/70001

Applicant :Weifang GoerTek Electronics Co.,Ltd

EUT Description:Bluetooth in-car Speakerphone

EUT Model :K100

EUT Pol. :E1 PLAN

ANT. Type :printed

Temp./Humid. :23/63

Operator :Bondi

-End of Report-

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