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SPECIFICATION

Model No.	MK-10
APP. Type	Bluetooth Hands-Free
Antenna	MKTH_REV1.0
TYPE	PIFA
Maker	MOVON COPORATION

February, 03, 2006

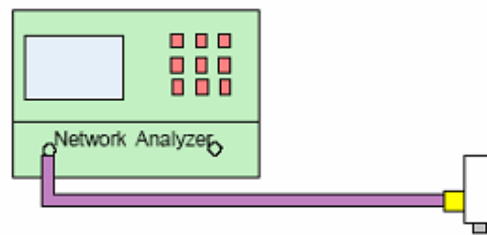
MOVON	DESIGNED	CHECKED	APPROVED

MOVON CORPORATION Research & Development Laboratory Contact : LEE TAE HYUNG : Richard.lee@movon.co.kr

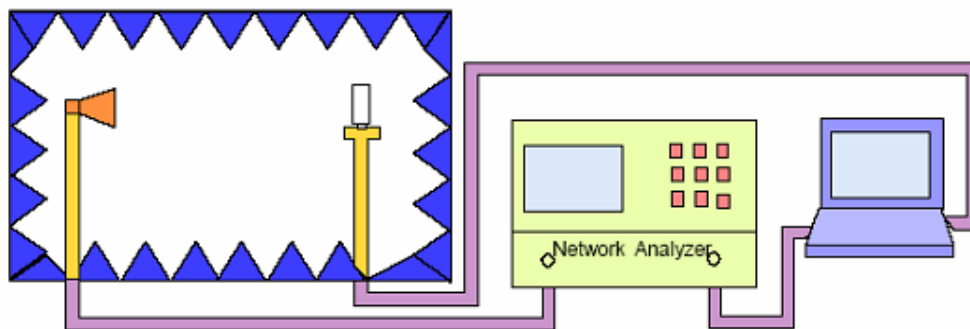
1. MEASUREMENT

For the antenna measurement, Frequency and VSWR is measured by using Network Analyzer after setting, while Gain is measured in the shield room

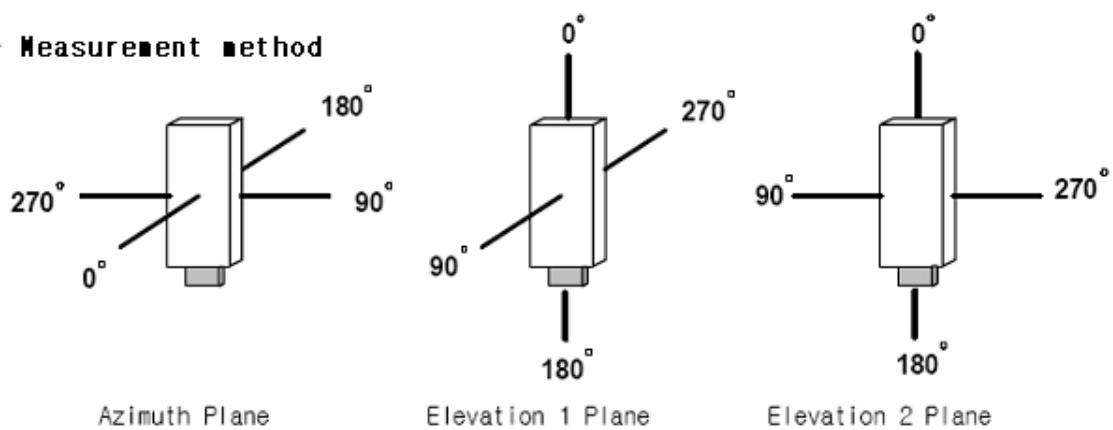
Frequency, VSWR measurement



Gain measurement

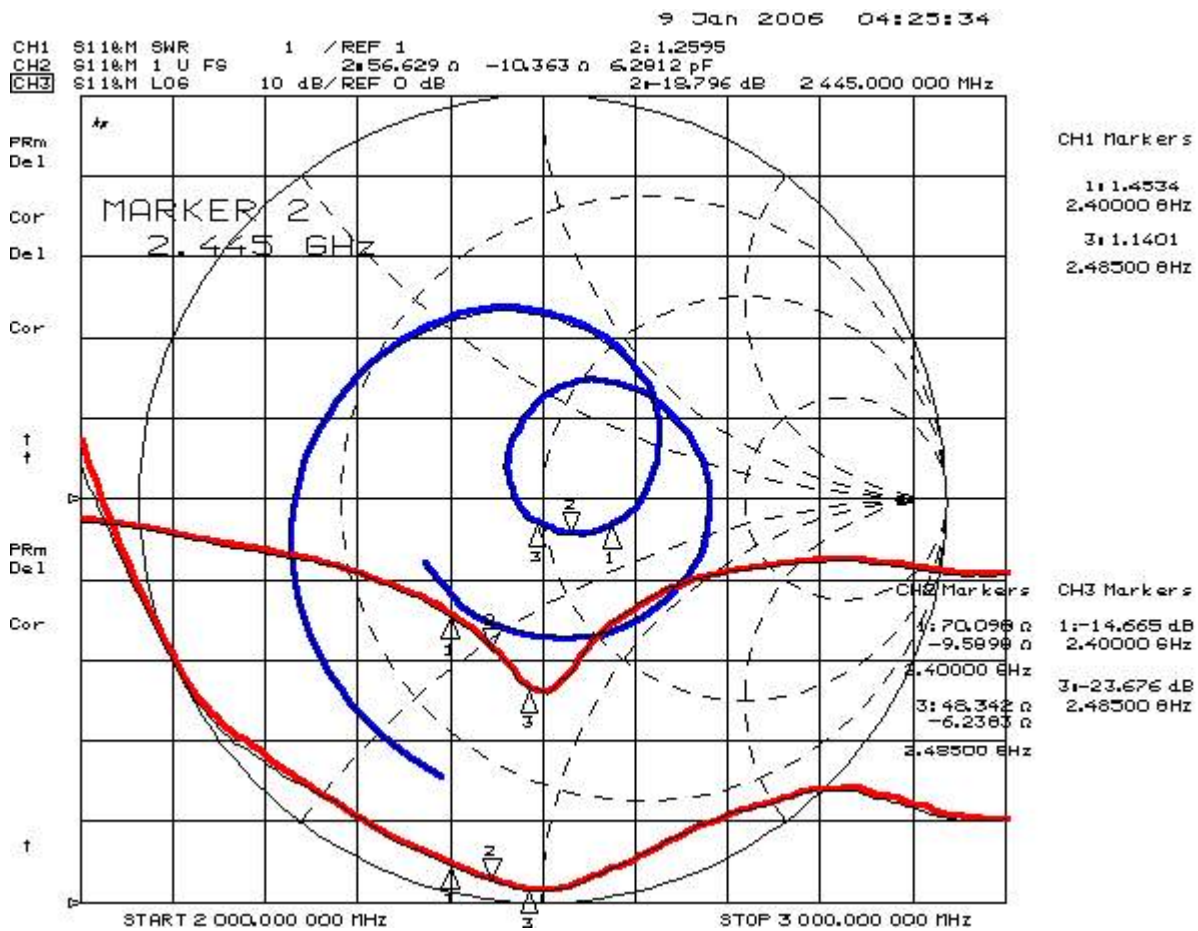


Measurement method



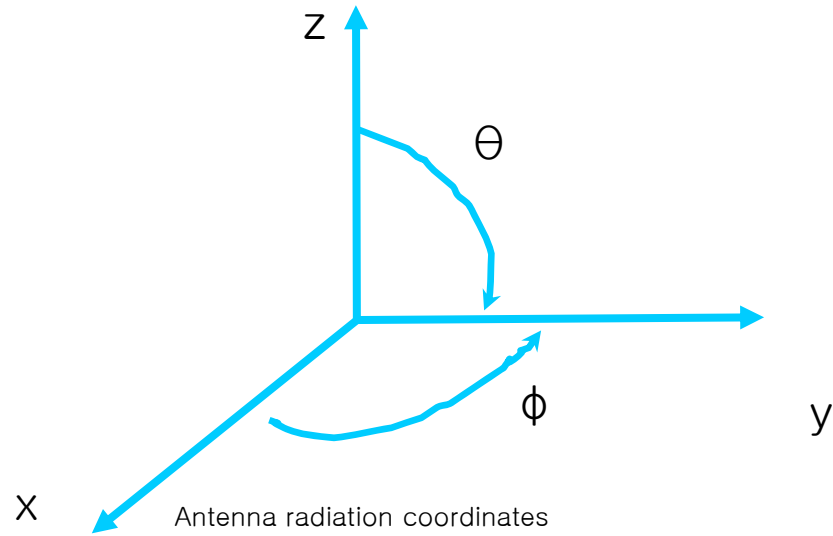
2.ELECTRICALLY CHARACTERISTIC

ITEM	SPEC
Frequency Range [MHz]	2400 ~2485
V.S.W.R.	2.0 Max
Gain [dBi]	0
Bandwidth [MHz]	370



[Picture-1 Smith chart 및 VSWR]

3. Measure results for Radiation pattern

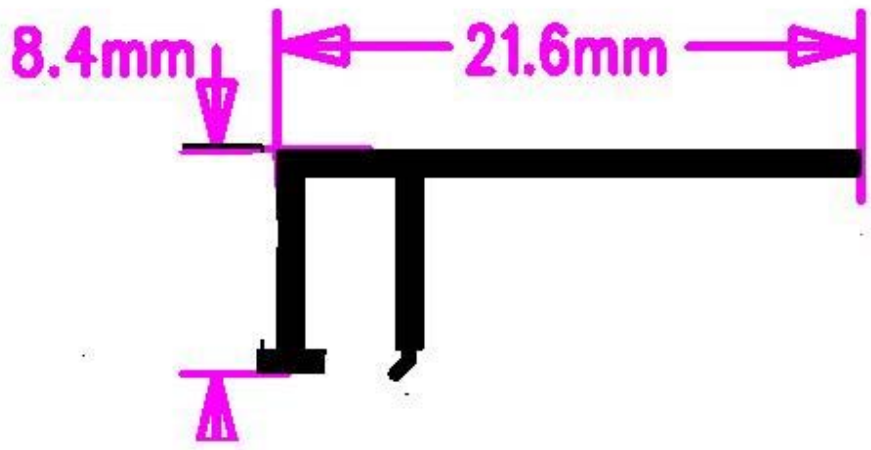


Test condition

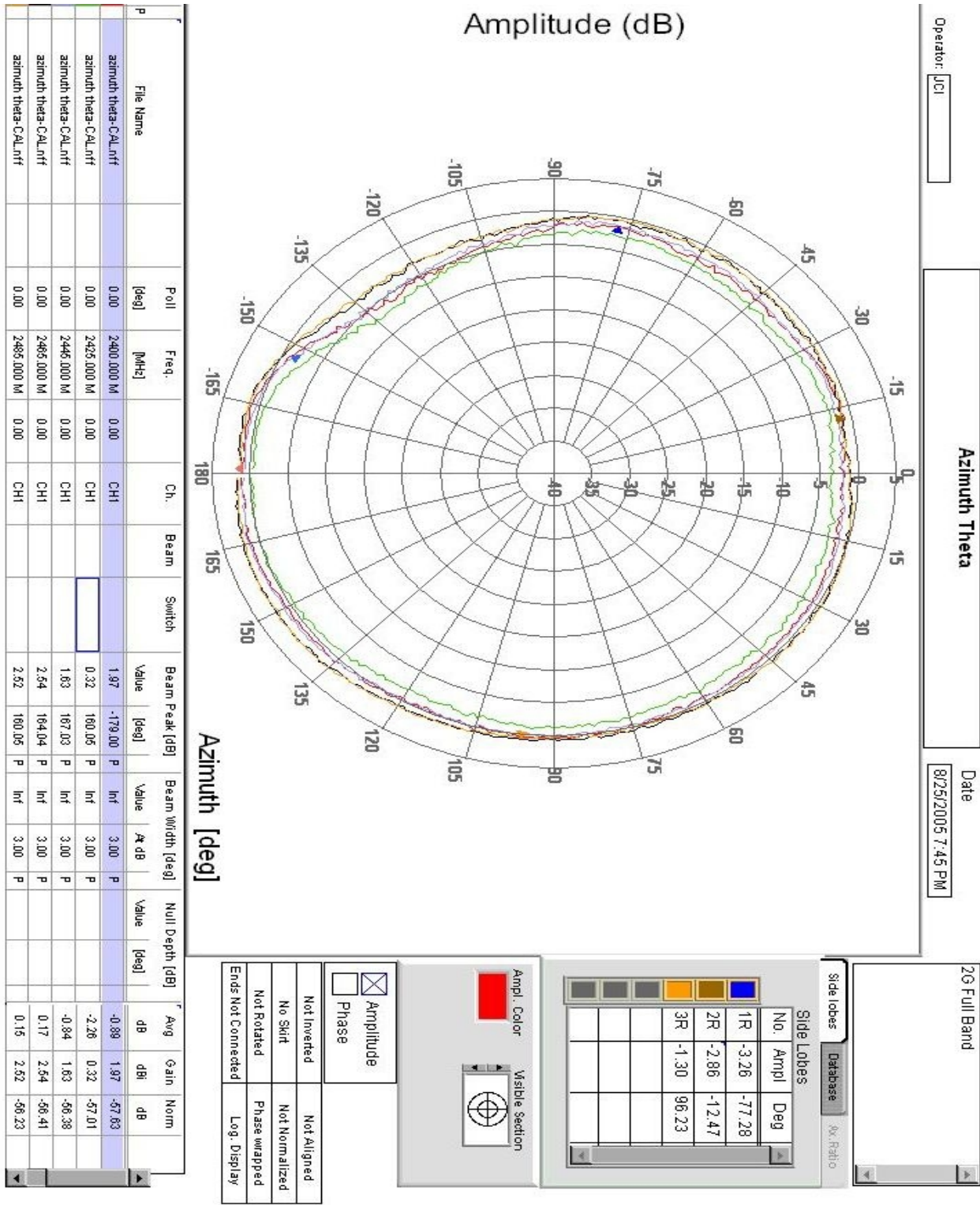
Parameters	condition	Unit
Chamber size	6*10*4	M
Temperature	21.5	°C
Humidity	55	%
Measurement	S21(network Analyzer)	8510C
System software	Midas(Orbit/FR)	Version 3.0

- E,H ≡ linear horn antenna : E plane(roll=0deg.)과 H plane(roll=90deg.).

4.Dimension



[Azimuth XY]



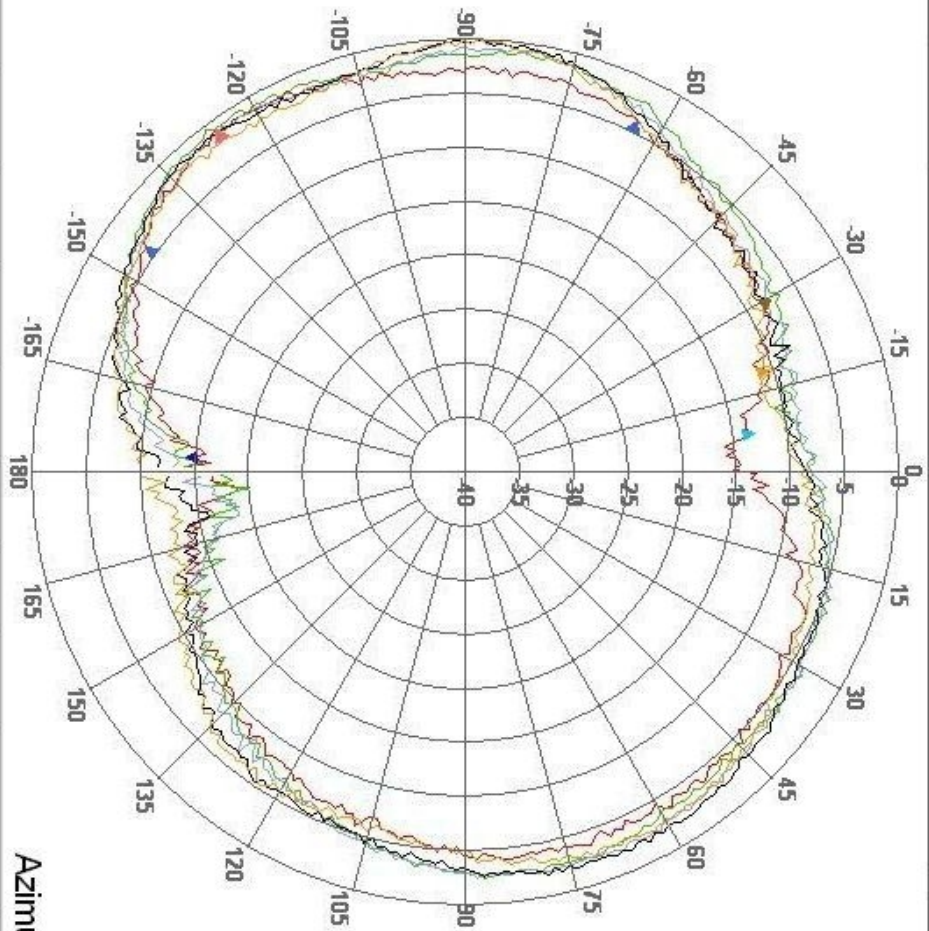
Operator: delnom

Elevation1 Phi

Date

3/23/2006 4:40 PM

[Elevation XZ]
Amplitude (dB)



Azimuth [deg]

P	File Name	Freq. [MHz]	Ch.	Beam	Switch	Beam Peak [dB]		Beam Width [deg]		Null Depth [dB]		Avg dB	Gain dBi	Norm dB
						Value	[deg]	Value	° dB	Value	[deg]			
	elevation1 phi-CAL.nrf	2400.000 M	CH1			-0.96	-126.15	81.20	3.00	P		-5.55	-0.96	-57.61
	elevation1 phi-CAL.nrf	2425.000 M	CH1			-0.42	-127.14	90.51	3.00	P		-4.33	-0.42	-57.38
	elevation1 phi-CAL.nrf	2445.000 M	CH1			-0.46	-80.28	86.80	3.00	P		-4.33	-0.46	-57.00
	elevation1 phi-CAL.nrf	2465.000 M	CH1			-0.08	-88.25	80.94	3.00	P		-4.16	-0.08	-56.51
	elevation1 phi-CAL.nrf	2485.000 M	CH1			-0.04	-88.25	75.53	3.00	P		-4.65	-0.04	-56.77

☒ Amplitude
☐ Phase

☐ Not Inverted
☐ No Skirt
☐ Not Rotated
☐ Ends Not Connected

☐ Not Aligned
☐ Not Normalized
☐ Phase wrapped
☐ Log. Display

Ampl. Color



Side Lobes

No.	Ampl	Deg
1L	-13.24	-177.0°
1R	-6.64	-29.42
2R	-9.52	-18.45
3R	-12.12	-7.48

Side lobes Database fix Ratio