

客戶名稱 Customer	理立系統股份有限公司
日期 Date	2011 / 9 / 21
產品名稱 Product	YA-200230M13-NF 200-230MHz 13dBi Yagi Directional Antenna
版本 REV	1

茂 祐 企 業 有 限 公 司

Tai Digters Enterprise CO.,LTD

規 格 承 認 書

APPROVAL SHEET

客戶承認簽印 Customer Approved By	核准 Approve	主管 Chief	承辦 Responsible
	Kevin Tseng	Jackie	Fa Chen

# Model:YA-200230M13-NF

## 200-230MHz 13dBi Yagi Directional Antenna



### Applications:

- 200-230 MHz ISM Band
- 13dBi Directional Multipoint applications
- Point to Point Bridge

### Features :

- DC Short lightning protection
- Behind and support is an aluminum
- Outdoor antenna for public Hot spots
- Includes tilt and swivel mast moun brackets
- RoHS Compliant



## Electrical Specifications

Frequency Range	200MHz-230MHz
V.S.W.R (MAX)	1.5:1
Antenna Type	Yagi Directional
Radiation	Directional
Gain (Avg)	13 dBi
Polarization	Vertical or Horizontal
Maximum Power	500 Watts
Vertical Beam-with	49 Deg
Horizontal Beam-with	64 Deg
Impedance	50 Ohm
F/B	Than 15
Antenna Design	Folded Dipole Balun Yagi
Connector	N-Female

## Mechanical Specifications

Length (MAX)	3723 cm
Diameter (MAX)	669X3 cm
Antenna Weight (G.W)	3500 g
Accessories (G.W)	500 g
Application	Outdoor
Radome Material	ABS + PC
Parts Material	Aluminum
Mount Style	3"Pole Mount
Mounting	ALL Stainless Steel
Wind Survival	Greater then 120MPH
Storage Temperature	-40 to +80
Operating Temperature	-40 to +60
Operating Humidity	10%~90% non-condensing
Storage Humidity	5%~90% non-condensing
Safety,Emission and other	CE, FCC, RoHS,ISO

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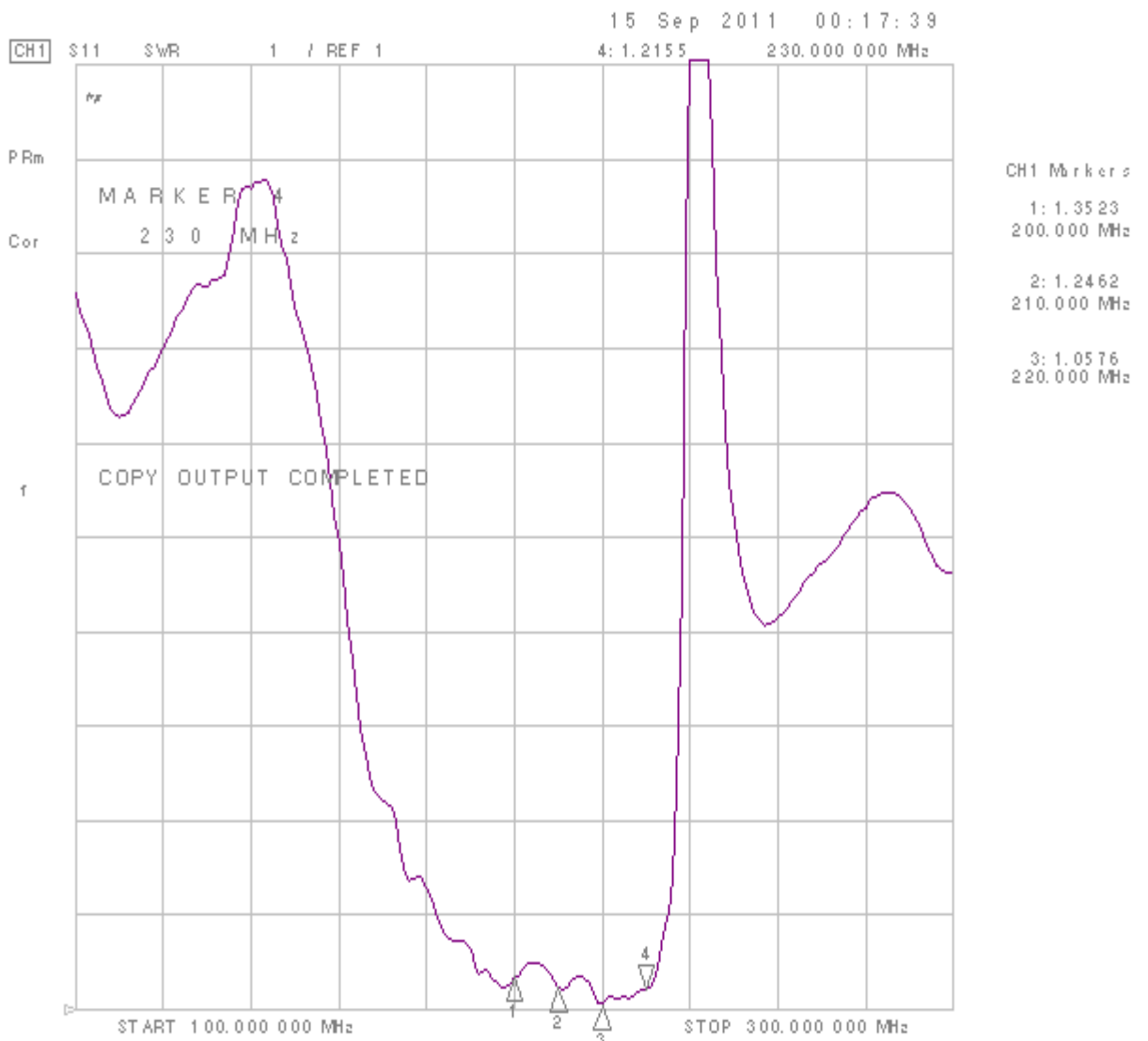
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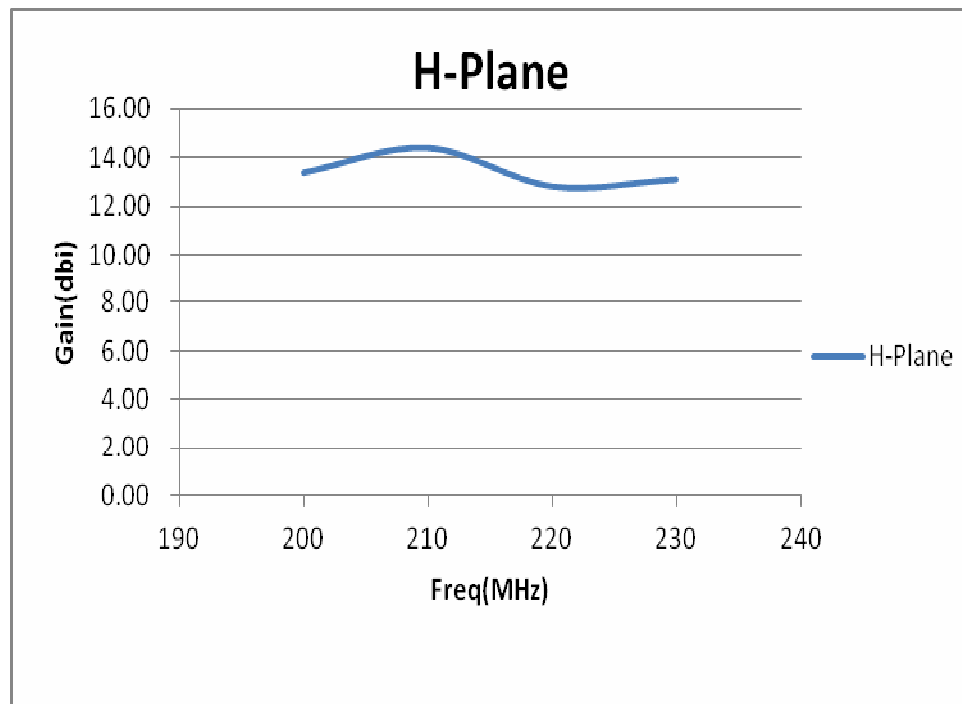
# V.S.W.R



## Gain Curve

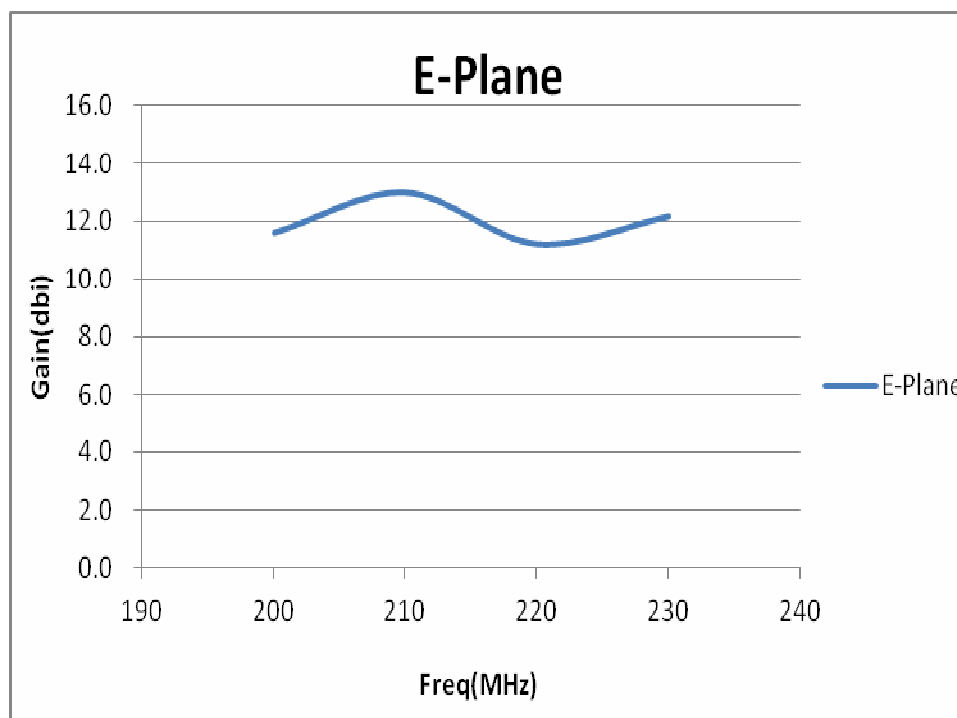
H-plane

MHz	Gain
200	13.40
210	14.41
220	12.84
230	13.12
Average	13.4



E-Plane

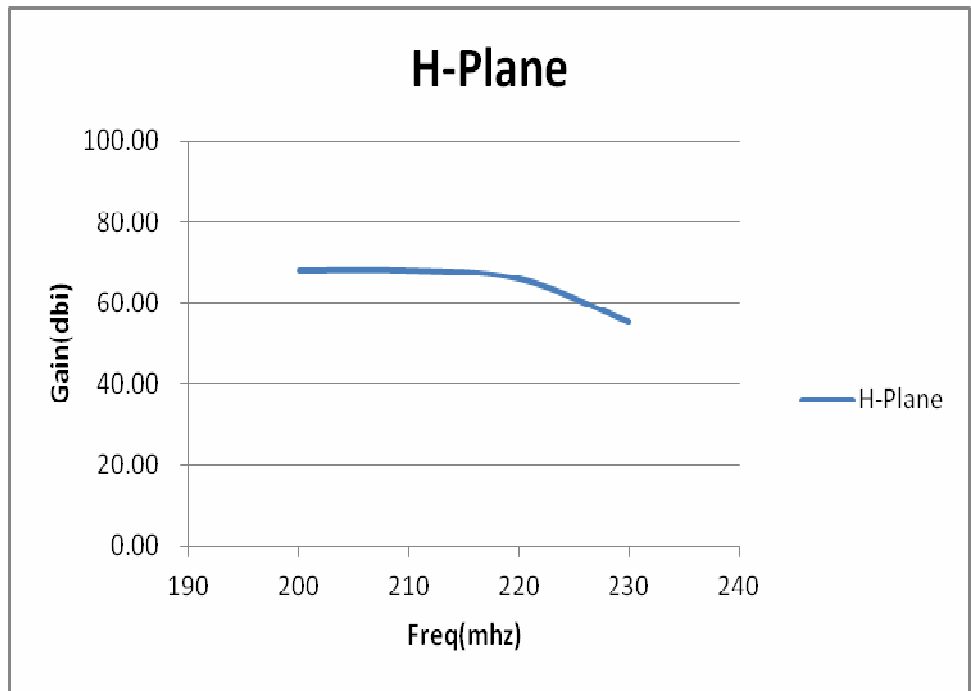
Frequency MHz	Gain dBi
200	11.6
210	13
220	11.21
230	12.17
Average	12



## FPB (-3beam-with) Curve

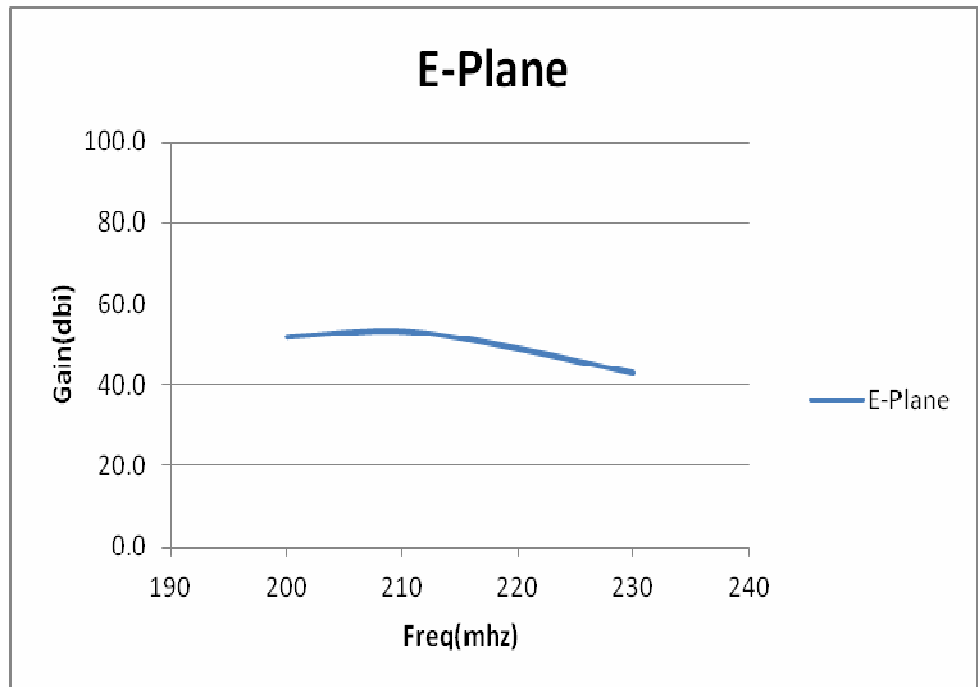
H-plane

MHz	deg
200	68.15
210	68.1
220	65.88
230	55.35
Average	64.4



E-Plane

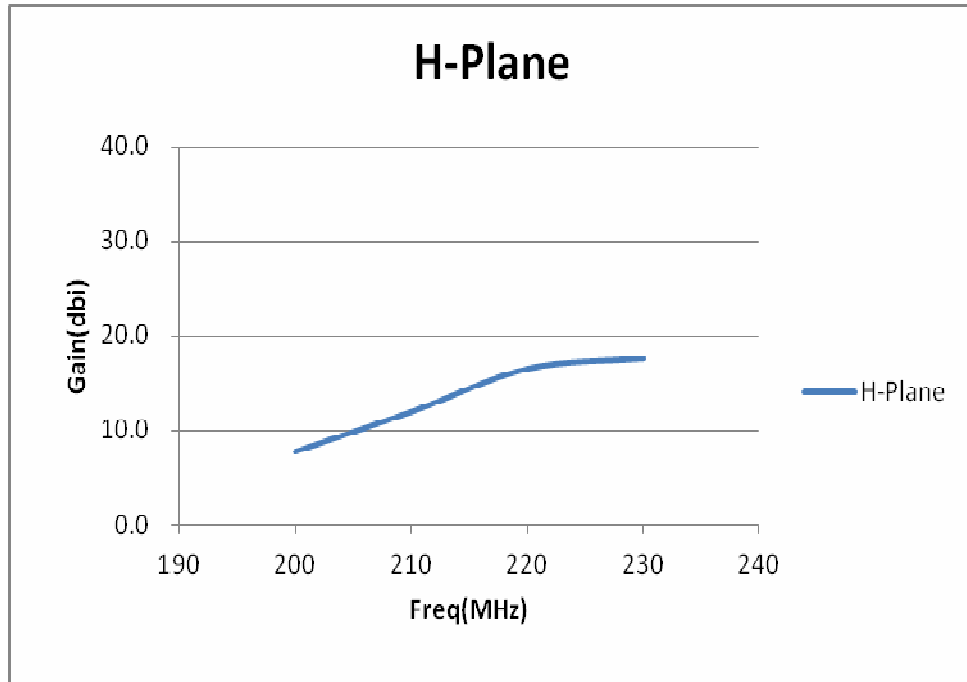
Frequency	
MHz	deg
200	51.8
210	53.18
220	48.9
230	42.9
Average	49.2



## FB( Front to Back Ratio)

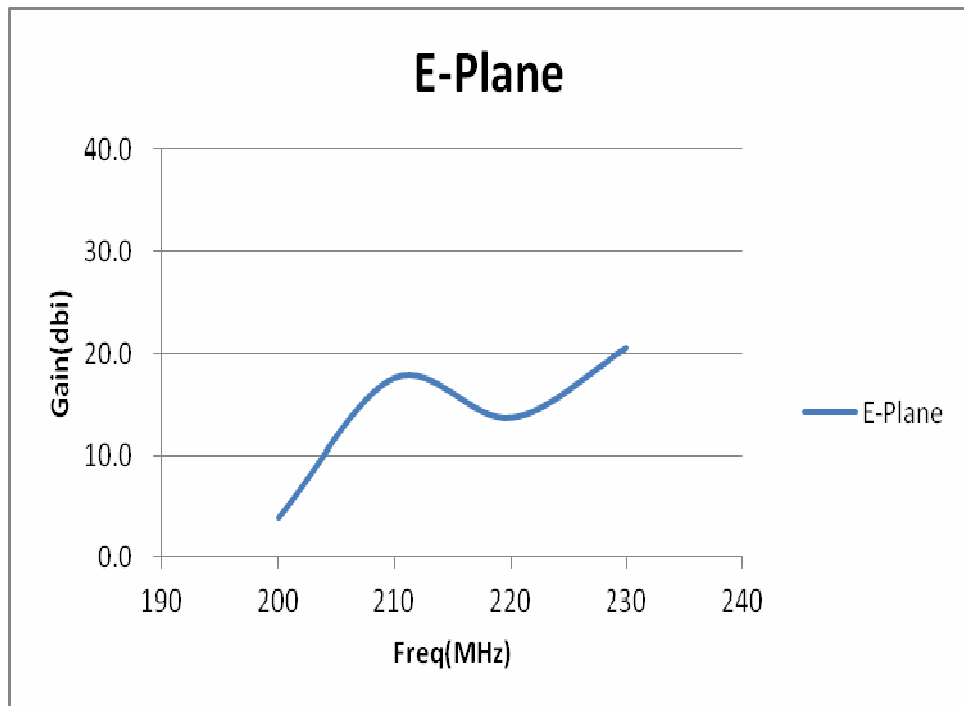
### H-PLANE

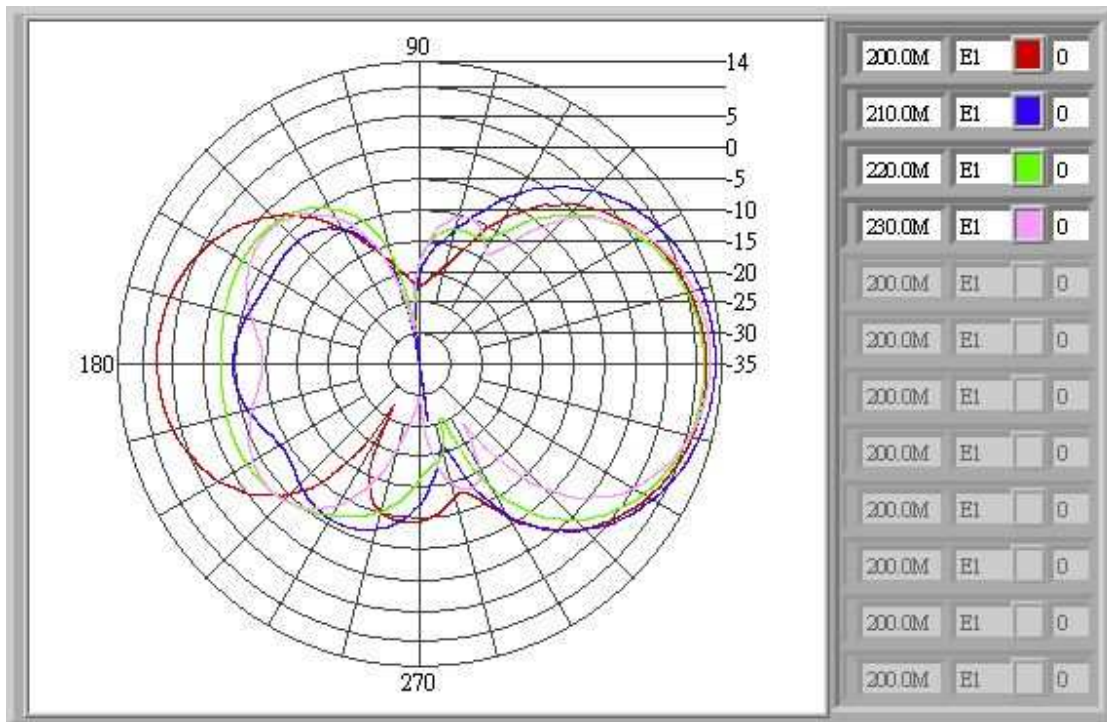
MHz	db
200	7.7
210	11.9
220	16.5
230	17.5
Average	13.4



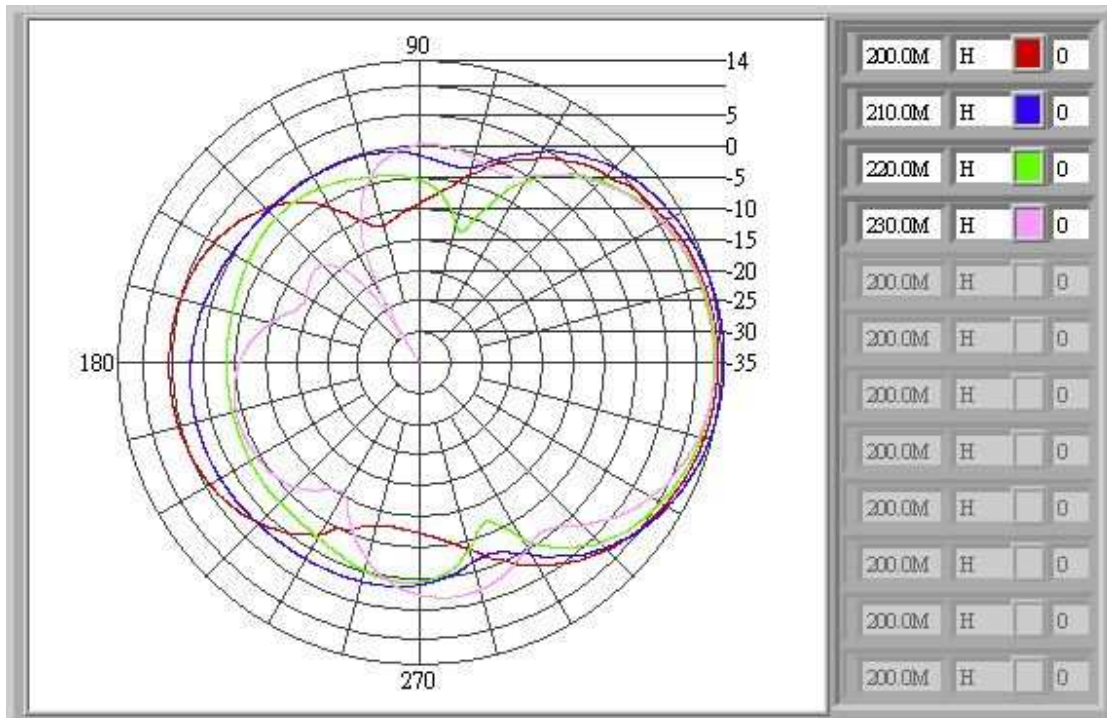
### E-PLANE

MHz	db
200	3.9
210	17.69
220	13.69
230	20.7
Average	14





Vertical  
E-plane co-pol ----- 3-dB beam-with=49°



Horizontal  
H-plane co-pol ----- 3-dB beam-with=64 °