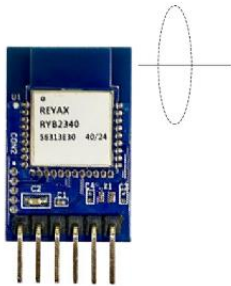


Design firm:	REYAX TECHNOLOGY CO., LTD.
Design firm address:	Rm. 1, 6F., No. 5, Ln. 345, Yangguang St., Neihu Dist., Taipei City, Taiwan (R.O.C.)
Manufacturer:	GERSHIN ELECTRONICS CO., LTD.
Manufacturer address:	6F, No. 504, Yuanshan Road, Zhonghe District, New Taipei City 235, Taiwan
Product Name	RYB2340 On board antenna
Features	Wireless antenna Frequency Range: 2400~2483.5MHz
Type	PCB antenna

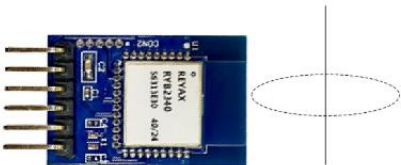
Antenna List

Antenna Type	Brand	Connector	Model	Freq.	Peak Antenna Gain (dBi)
PCB antenna	REYAX	Permanently attached antenna	RYB2340	2400~2483.5MHz	1.16

Antenna Orientation: Radiation Pattern
X Axis Measurement

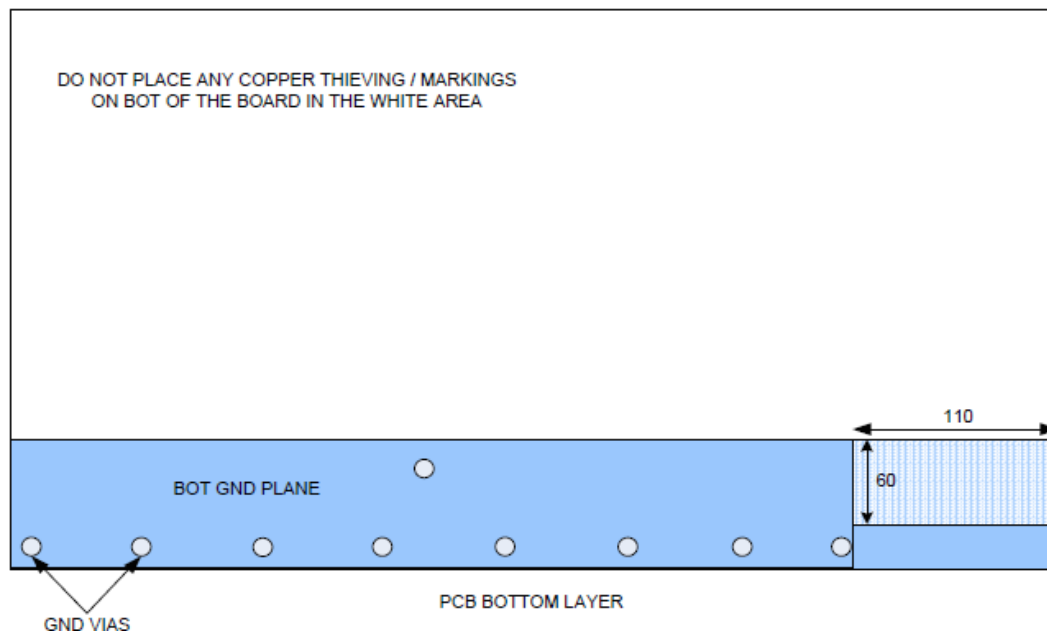
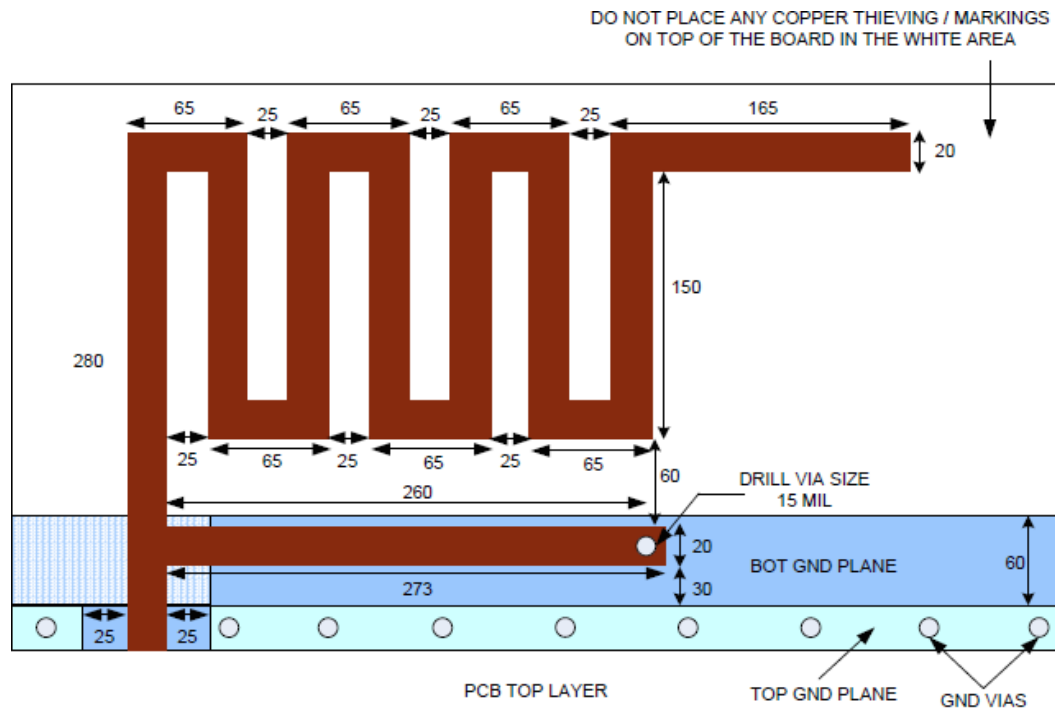


Y Axis Measurement

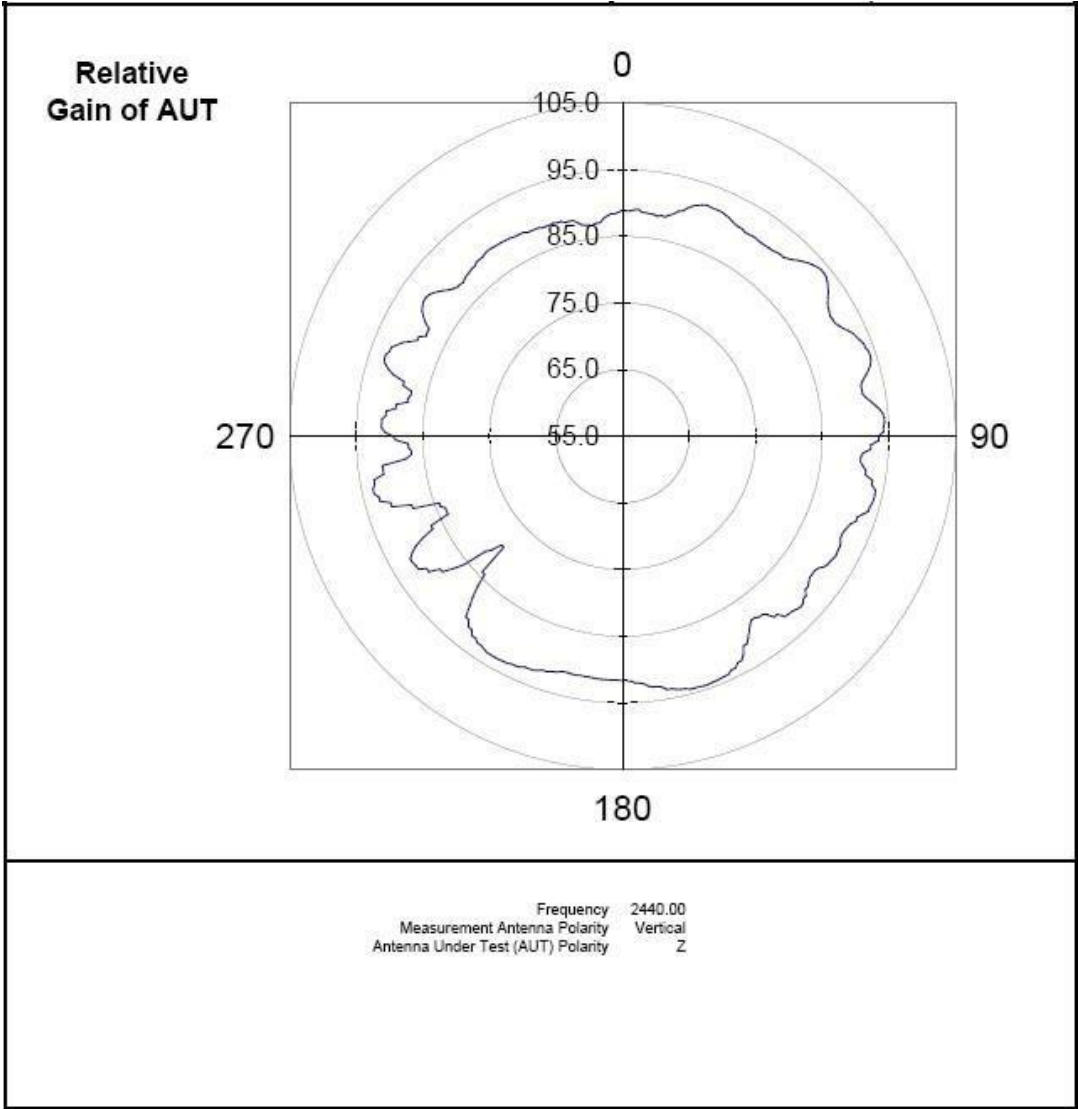


Z Axis Measurement



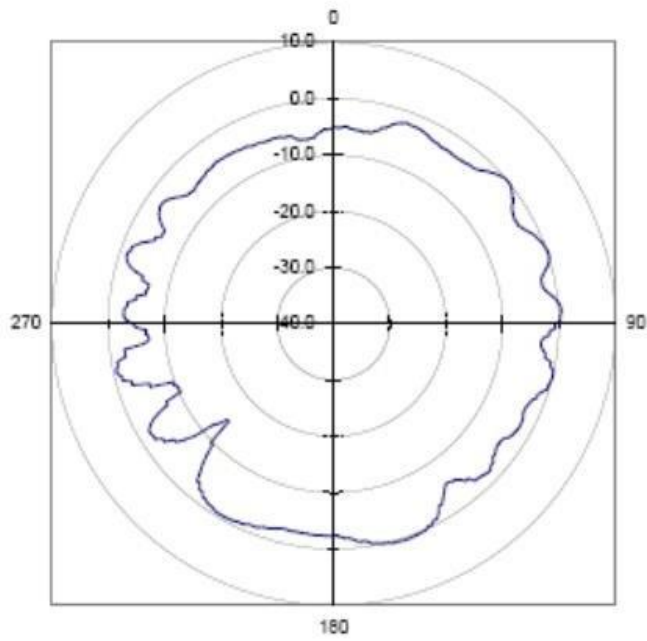


Wiggle Antenna Polar Plot (Relative Gain) for Z Axis with Measurement Antenna Vertical



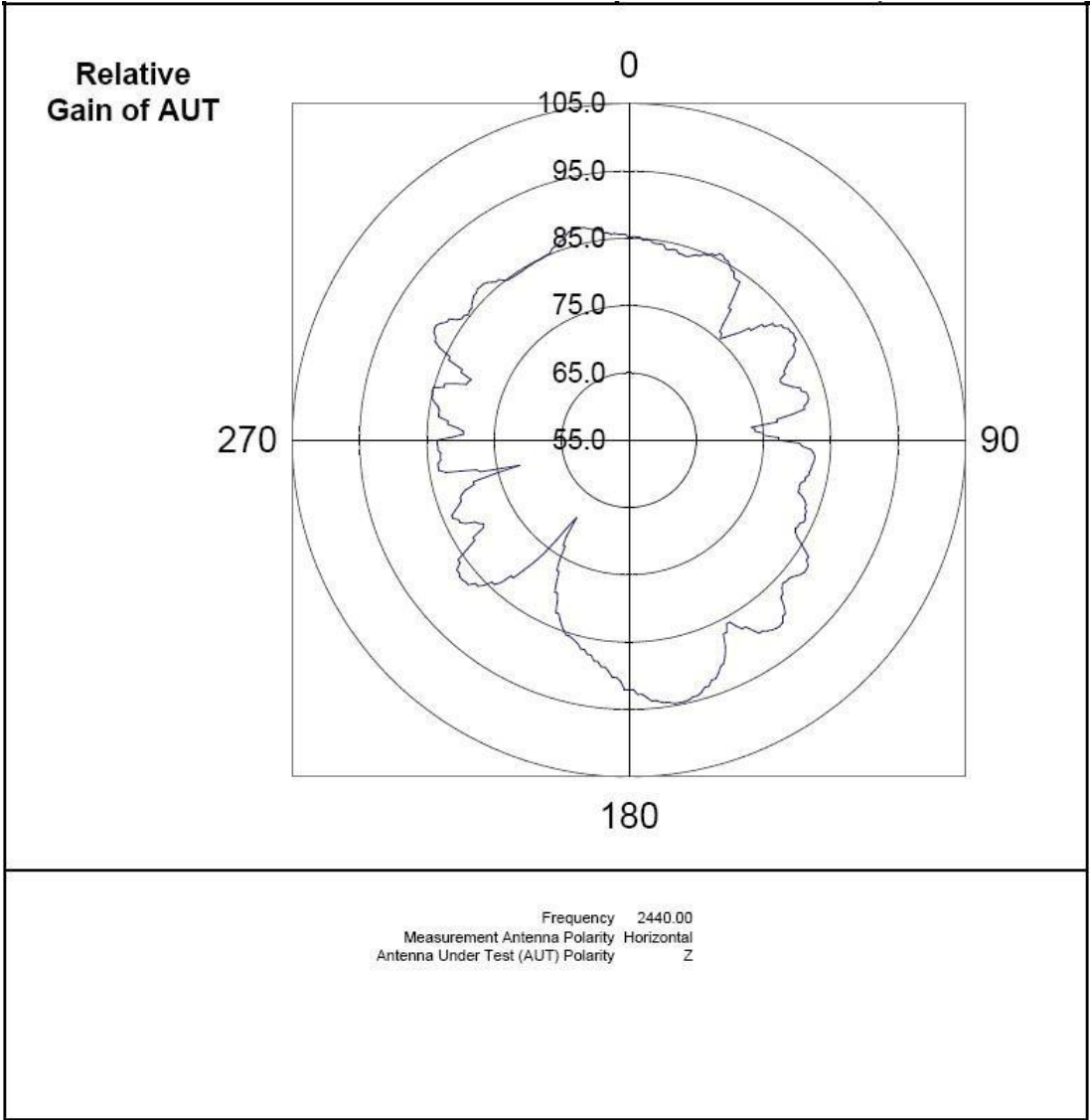
Wiggle Antenna Polar Plot (Absolute Gain) for Z Axis with Measurement Antenna Vertical

Absolute Gain of AUT



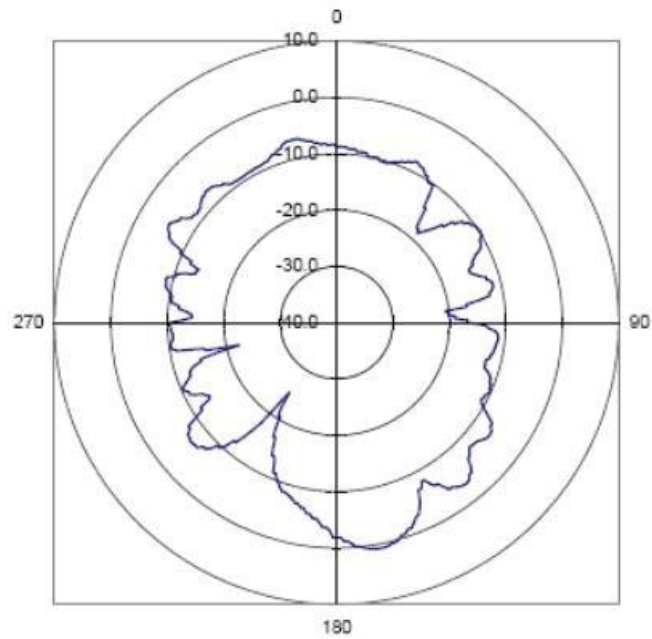
Frequency	2440.00
Absolute Gain of Reference Antenna (dBi)	8.86
Reference Antenna Relative Gain Max (dBuV/m)	102.80
AUT Relative Gain Max (dBuV/m)	94.40
Difference (Reference Antenna - AUT) (dB)	8.40
AUT Setup Loss (dB)	0.00
Maximum Absolute Gain of AUT (dBi)	0.46
Correction Factor (Convert From Relative to Absolute Gain) (dB)	93.94
Measurement Antenna Polarity	Vertical
Antenna Under Test (AUT) Polarity	Z

Wiggle Antenna Polar Plot for Z Axis with Measurement Antenna Horizontal



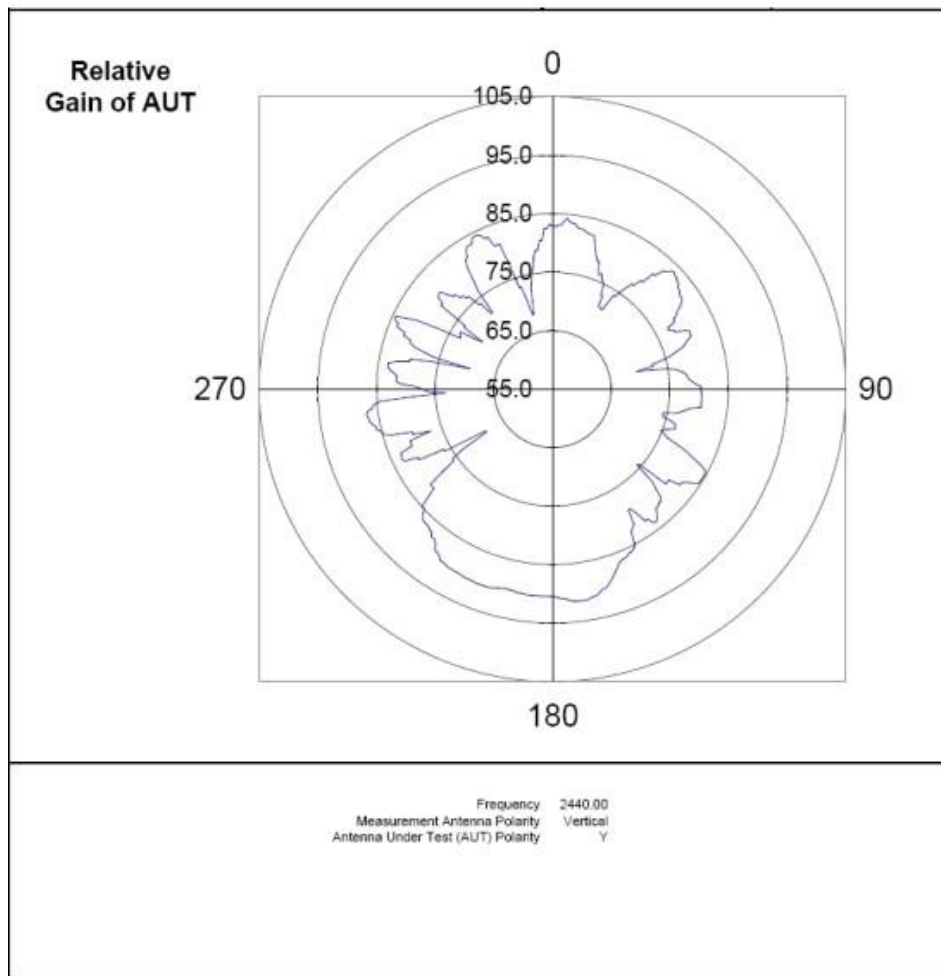
Wiggle Antenna Polar Plot (Absolute Gain) for Z Axis with Measurement Antenna Horizontal

**Absolute
Gain of AUT**



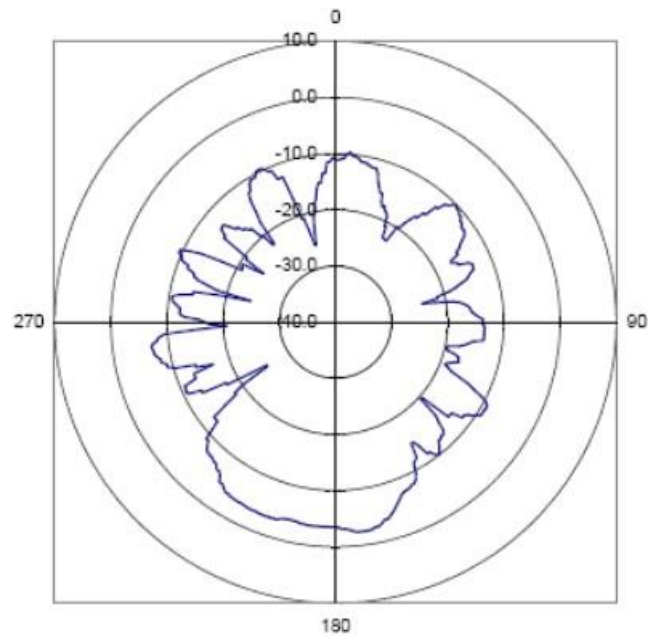
Frequency	2440.00
Absolute Gain of Reference Antenna (dBi)	8.86
Reference Antenna Relative Gain Max (dBuV/m)	102.80
AUT Relative Gain Max (dBuV/m)	94.70
Difference (Reference Antenna - AUT) (dB)	8.10
AUT Setup Loss (dB)	0.00
Maximum Absolute Gain of AUT (dBi)	0.76
Correction Factor (Convert From Relative to Absolute Gain) (dB)	93.94
Measurement Antenna Polarity	Horizontal
Antenna Under Test (AUT) Polarity	Z

Wiggle Antenna Polar Plot (Relative Gain) for Y Axis with Measurement Antenna Vertical



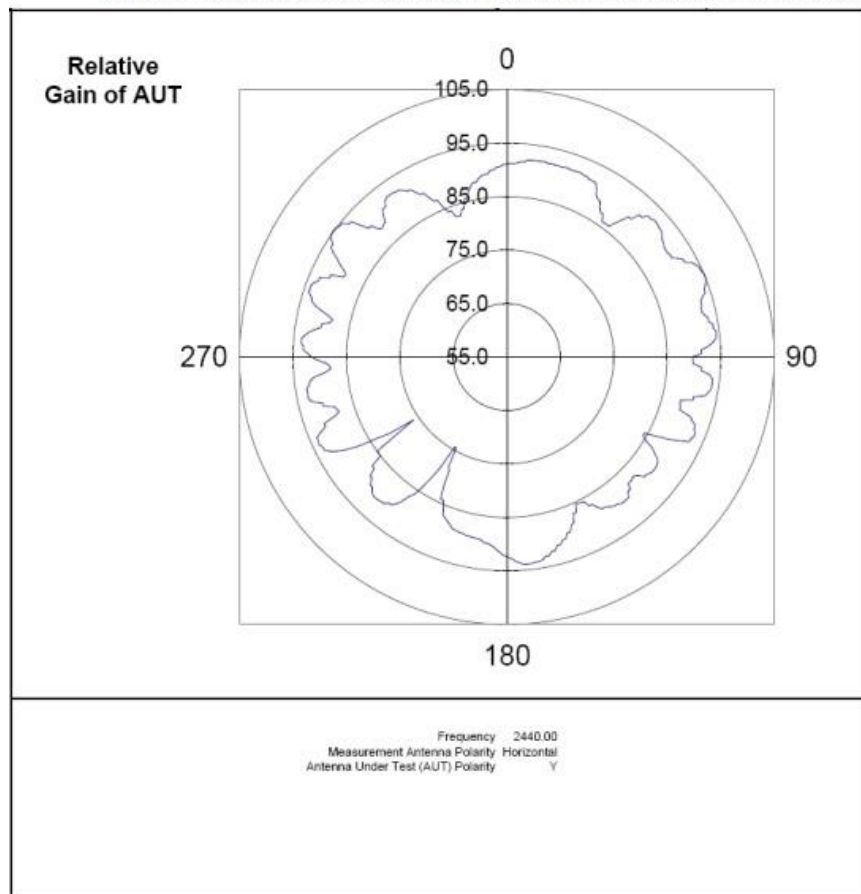
Wiggle Antenna Polar Plot (Absolute Gain) for Y Axis with Measurement Antenna Vertical

**Absolute
Gain of AUT**



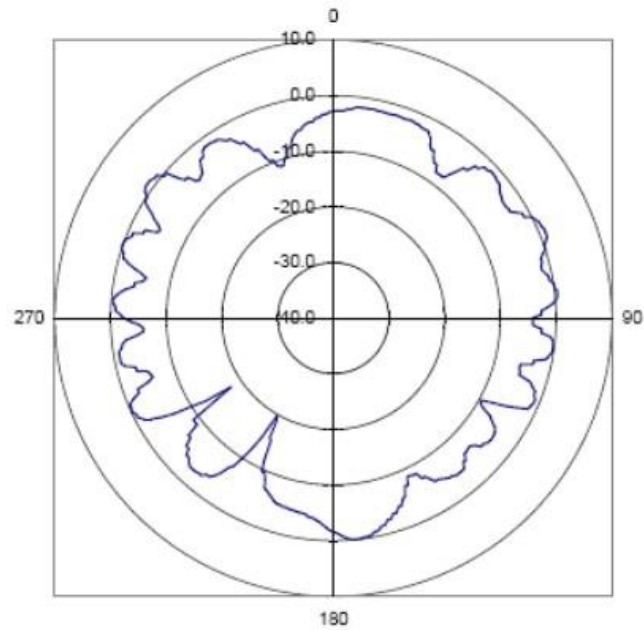
Frequency	2440.00
Absolute Gain of Reference Antenna (dBi)	8.86
Reference Antenna Relative Gain Max (dBuV/m)	102.80
AUT Relative Gain Max (dBuV/m)	91.50
Difference (Reference Antenna - AUT) (dB)	11.30
AUT Setup Loss (dB)	0.00
Maximum Absolute Gain of AUT (dBi)	-2.44
Correction Factor (Convert From Relative to Absolute Gain) (dB)	93.94
Measurement Antenna Polarity	Vertical
Antenna Under Test (AUT) Polarity	Y

Wiggle Antenna Polar Plot (Relative Gain) for Y Axis with Measurement Antenna Horizontal



Wiggle Antenna Polar Plot (Absolute Gain) for Y Axis with Measurement Antenna Horizontal

Absolute
Gain of AUT



Frequency	2440.00
Absolute Gain of Reference Antenna (dBi)	8.86
Reference Antenna Relative Gain Max (dBuV/m)	102.80
AUT Relative Gain Max (dBuV/m)	95.10
Difference (Reference Antenna - AUT) (dB)	7.70
AUT Setup Loss (dB)	0.00
Maximum Absolute Gain of AUT (dBi)	1.16
Correction Factor (Convert From Relative to Absolute Gain) (dB)	93.94
Measurement Antenna Polarity	Horizontal
Antenna Under Test (AUT) Polarity	Y