

Shenzhen Xiangboyi Technology Co. Ltd

Antenna Specification

Customer	SunBoBoDigital Co.Ltd
M/N	E90A12SANT
Project NO	XBY210643

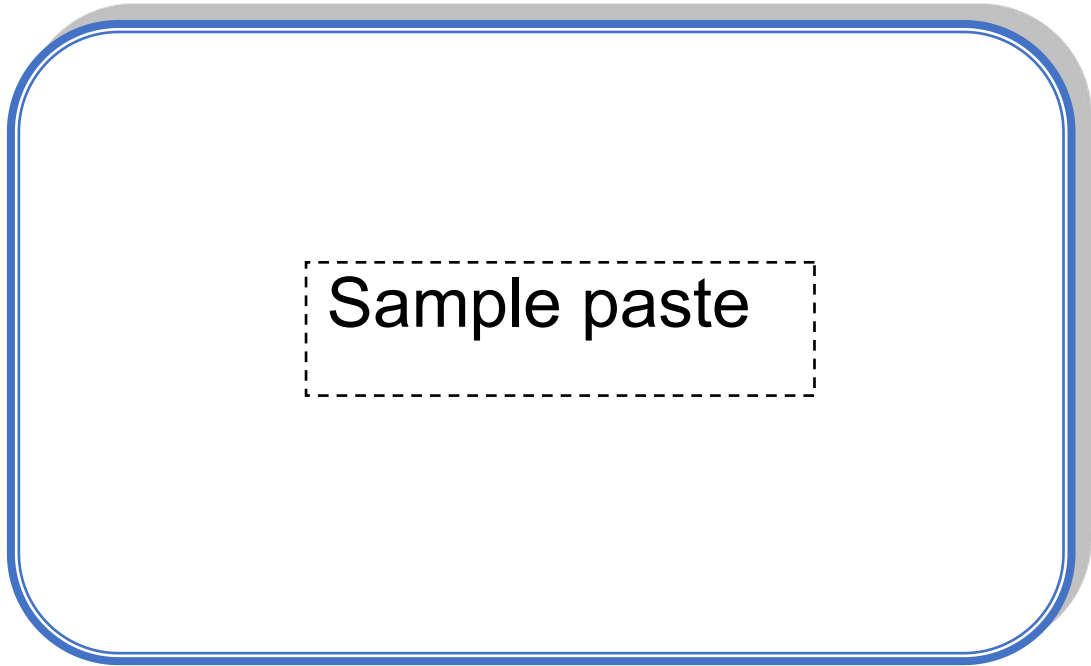
Shenzhen Xiangboyi Technology Co. Ltd

Tel: (+86)0755-29369912 Fax: (+86)0755-61624200

R & D Center: 101, floor 1, Wencheng building, Yousong Cultural Innovation Park, No. 95, Yousong Road, Longhua District, Shenzhen.

Production Base: 5 / F, building B, Huazhi chuangu, No. 7, Yuhua street, 138 Industrial Zone, Tangxia Town, Dongguan City.

Date: 2023/7/18



Customer confirmation			
Engineer	PM	Quality	Approval

Supplier confirmation			
ME	RF	Examine	Approval

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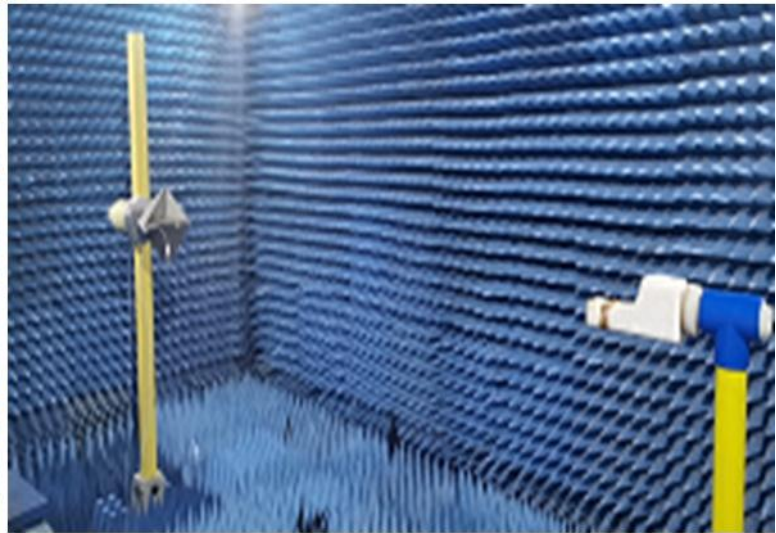
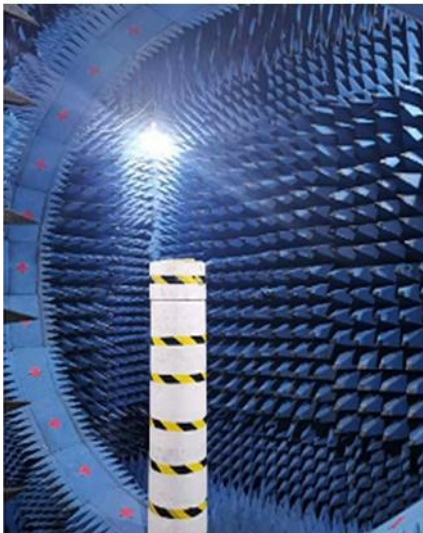
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1 Test System and Equipment

	Test items	equipment
1: S parameter	<ol style="list-style-type: none"> 1. Return loss 2. VSWR 	Network analyzer: A338/A333/HP8753D
2: Active test	<ol style="list-style-type: none"> 1. Transmitting power 2. Receiving sensitivity 	Comprehensive test instrument: Agilent 8960/ CMW500
3: Radiation mode and gain	<ol style="list-style-type: none"> 1. Radiation mode 2. Gain 	<ol style="list-style-type: none"> 1. Shielding room: 7x4x3 m (ETS-3D) 2. Network analyzer: HP 8753D



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2 Product Description

Technical requirements	Technical index	Remarks
Band	WIFI:5G	
Range Of Frequency	5180-5850Mhz	
VSWR	5180-5850Mhz<2.0	Center Frequency
Impedance	50Ω	
Polarization	Linear polarization	
operating temperature	-32℃ / +55℃	
storage temperature	-55℃ / +85℃	
Salt Fog	24h(24h alternating wet & dry)	
RoHS Compliant	yes	

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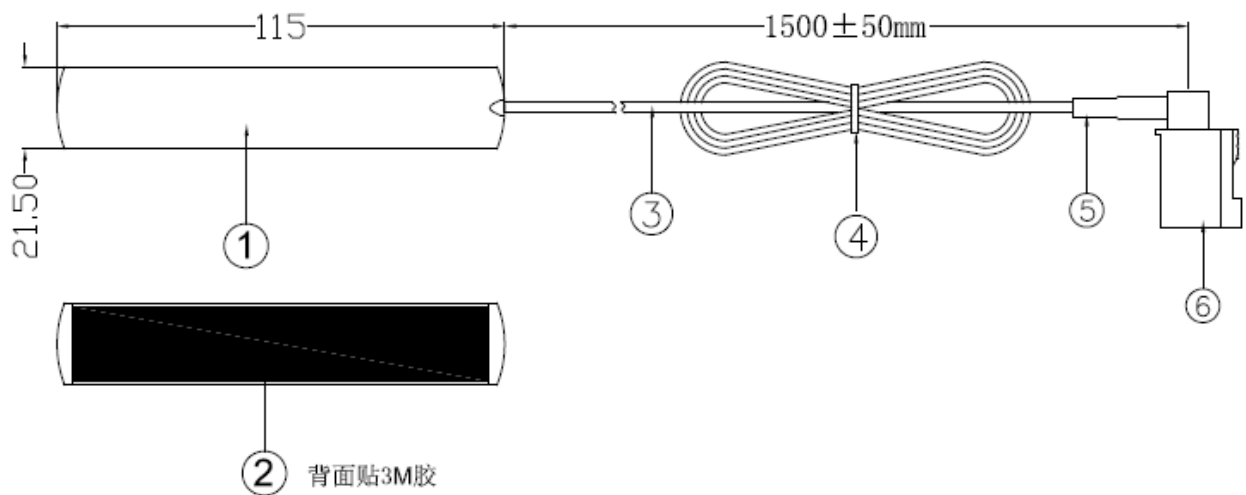
Production Base: 5 / F, building B, Huazhi chuangu, No. 7, Yuhua street, 138 Industrial Zone, Tangxia Town, Dongguan City.

3 Device Description

The whole machine photo

Not available

Antenna photo



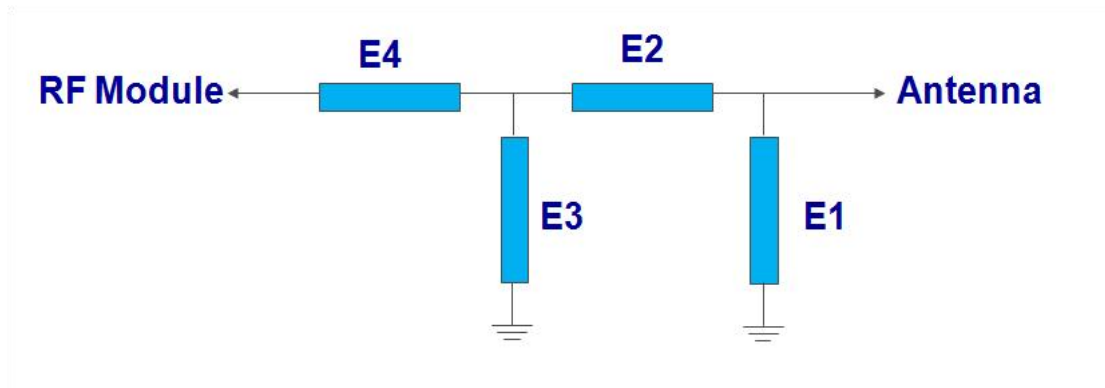
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4 Matching Circuits



Element	Value	Vender
E1(0402)	NA	
E2(0402)	0Ω	
E3(0402)	NA	
E4(0402)	0Ω	

Original match unchanged.

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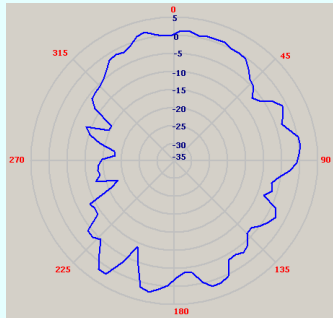
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- Radiation Patterns – 5150 MHz

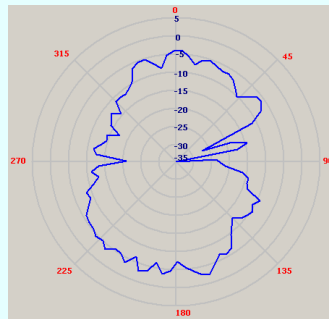
horizontal

xy-plane



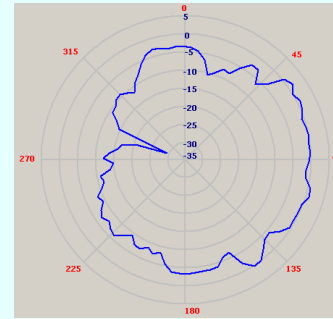
Pol.	Peak	avg.
h	+2.1	-2.4

yz-plane



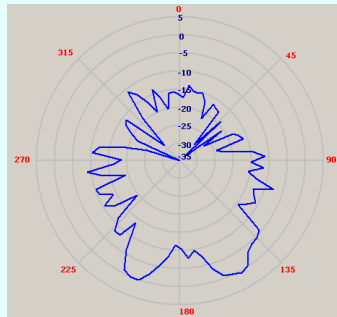
Pol.	peak	avg.
h	-2.6	-7.7

xz-plane

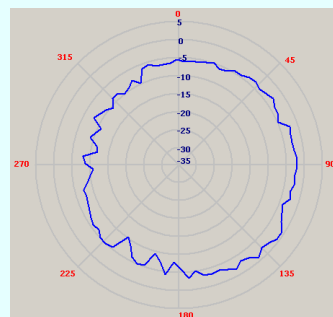


Pol.	peak	avg.
h	+1.3	-4.0

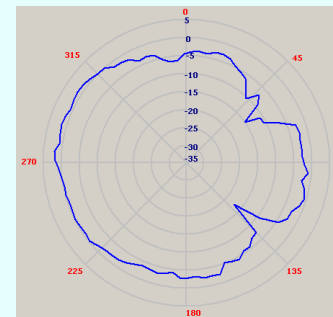
vertical



Pol.	peak	avg.
v	+0.4	-8.5

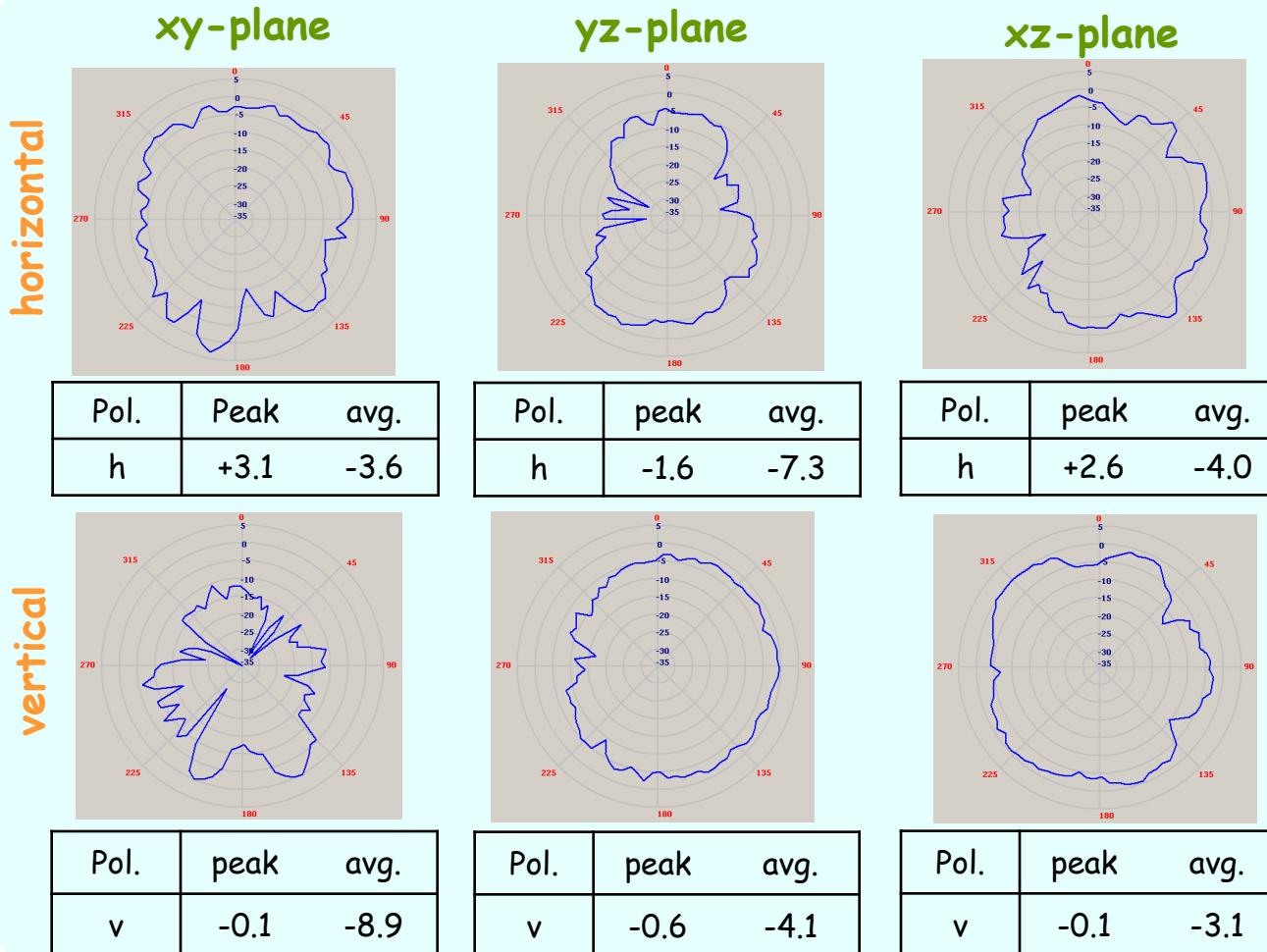


Pol.	peak	avg.
v	-0.8	-5.0

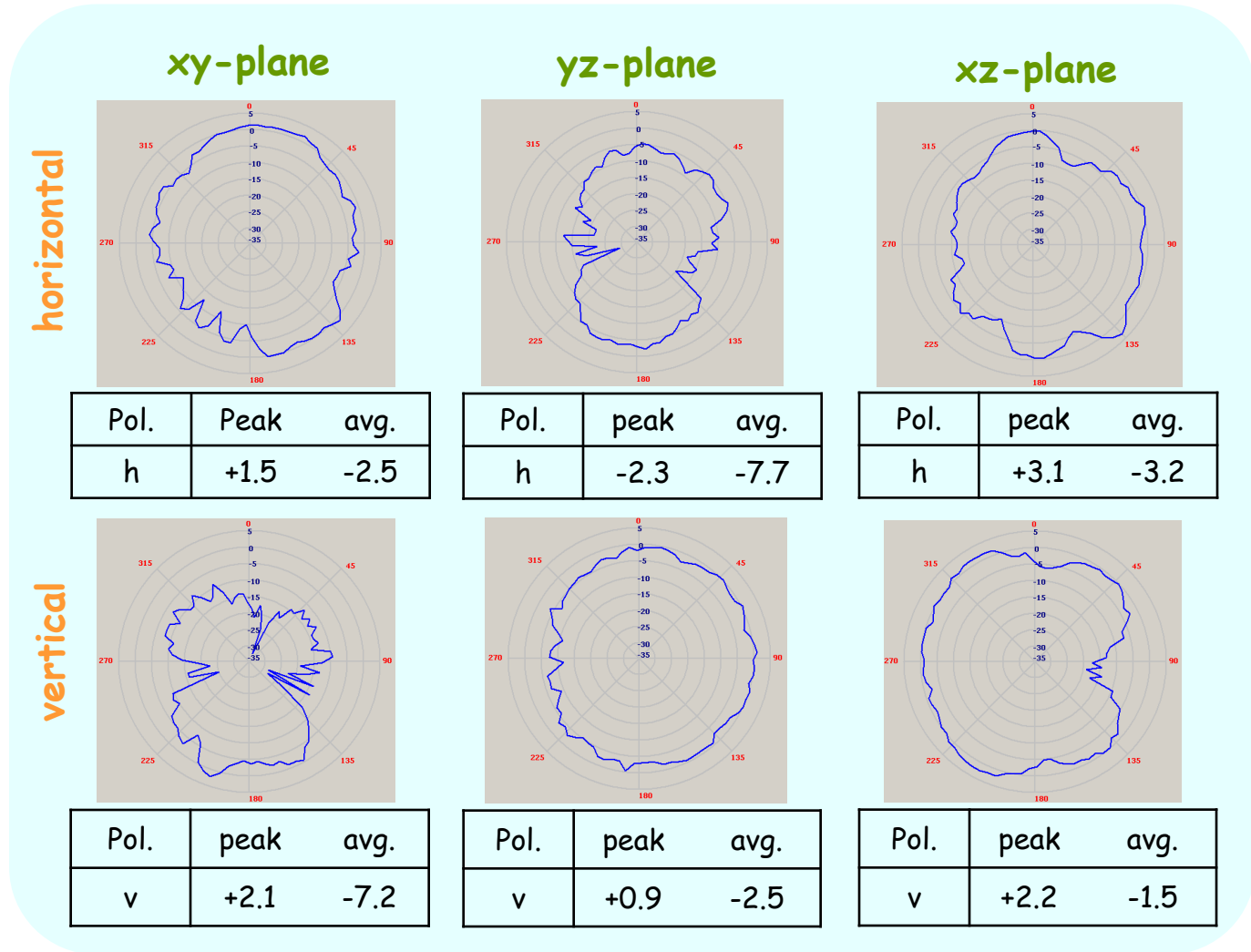


Pol.	peak	avg.
v	+1.7	-2.4

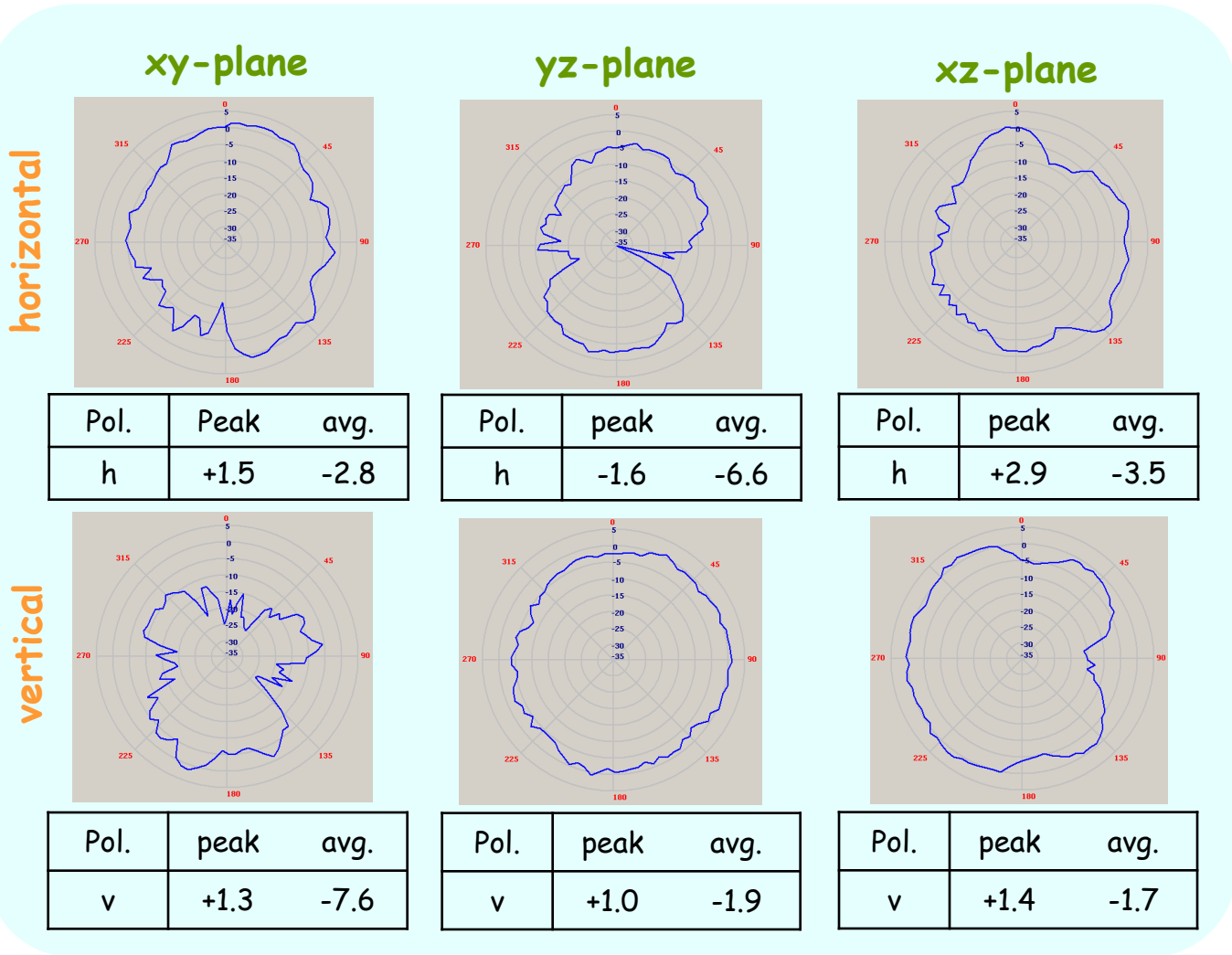
- Radiation Patterns – 5500 MHz



- Radiation Patterns – 5850 MHz



- Radiation Patterns – 5925 MHz



- **Antenna Gain Table**

Frequency (MHz)	Peak gain (dBi)
5150	+2.1
5500	+3.1
5850	+3.1
5925	+2.9