



SPEC NO.	SP03AC70000-0030	ISSUED DATE	2023.11.10	PUBLISHED BY
PRODUCT NAME	EW6AA0A1	VERSION	d01	
		PAGE	2/6	

## CIROCOMM TECHNOLOGY .

**PART NUMBER: 43N9BC03030N10T**

### 1.0 SCOPE

Cirocomm's customized **External WIFI 6E Antenna** covers the 2.4G, 5.8GHz, 7.125GHz.

### 2.0 Name of the product

This product is named "**External WIFI 6E Antenna**".

### 3.0 Electrical characteristics

#### 3.1 Electrical characteristics of antenna

The antenna has the electrical characteristics given in Table 1 under the *cirocomm* standard installation conditions.

**Table 1**

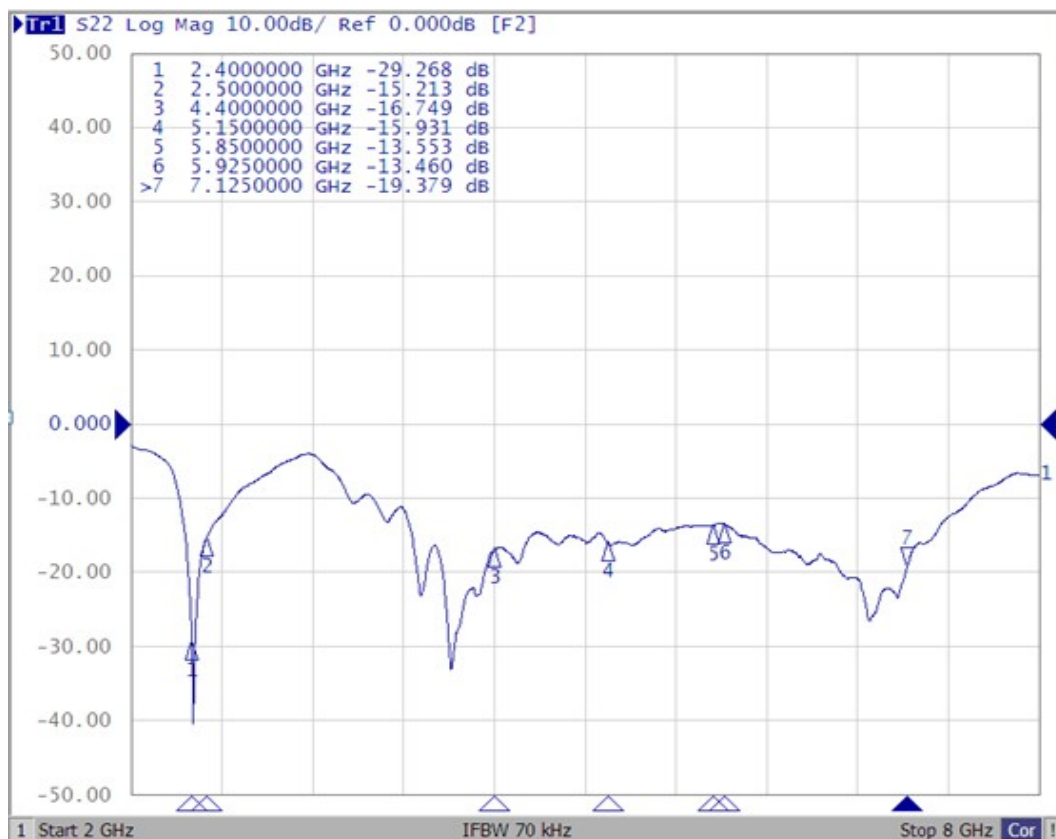
No.	Parameter	Specification
1	Work Frequency	2400~2500MHz 5150~5850MHz 5925~7125MHz
2	Impedance	50 $\Omega$
3	VSWR	$\leq 2.0$
4	Peak Gain	2 dBi
5	Connector Type	SMA(M)

\* Actual performance will depend on customer device environment.

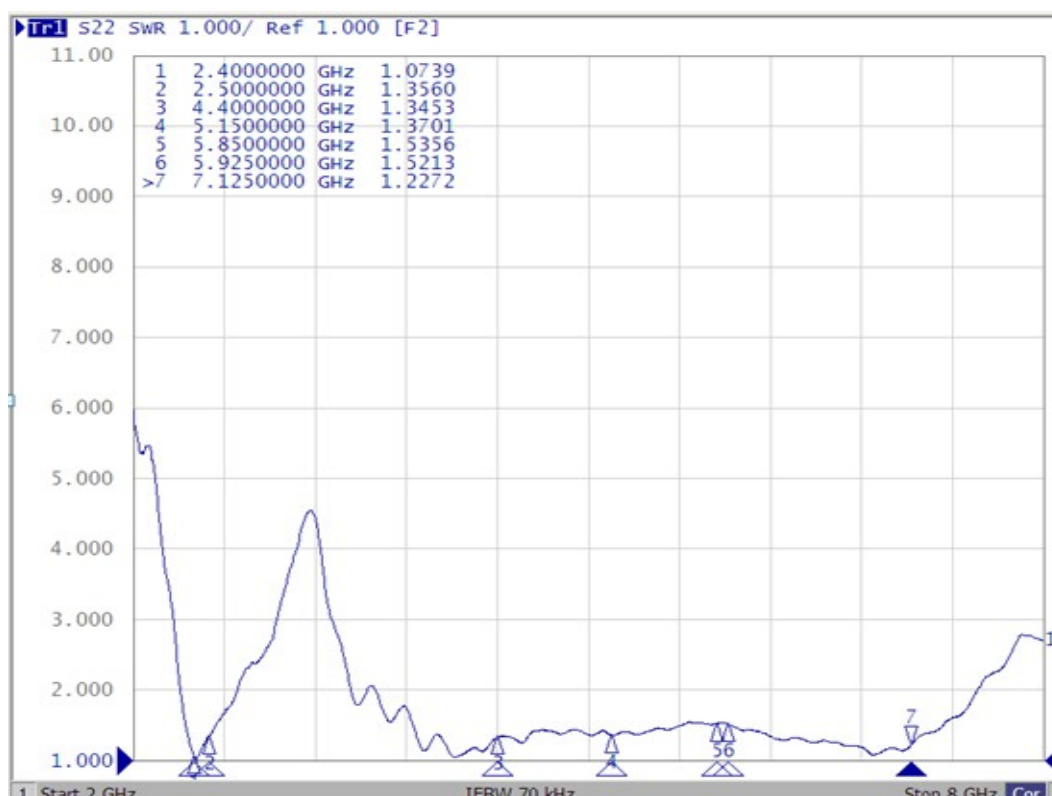
SPEC NO.	SP03AC70000-0030	ISSUED DATE	2023.11.10	PUBLISHED BY
PRODUCT NAME	EW6AA0A1	VERSION	d01	
		PAGE	3/6	

### 3.2 Response curve

#### Return loss

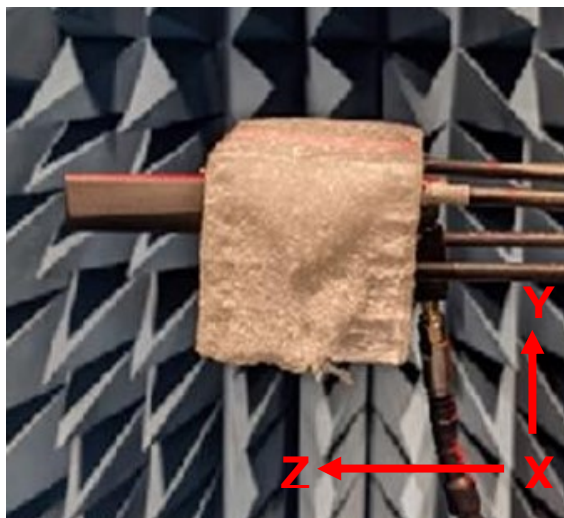


#### VSWR



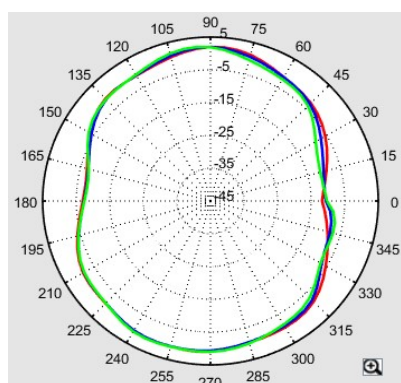
SPEC NO.	SP03AC70000-0030	ISSUED DATE	2023.11.10	PUBLISHED BY
PRODUCT NAME	EW6AA0A1	VERSION	d01	
		PAGE	4/6	

## 2D Radiation Pattern:

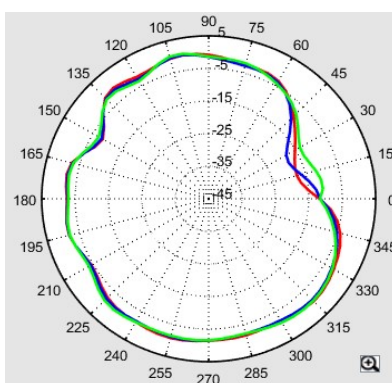


### 2400~2500MHz

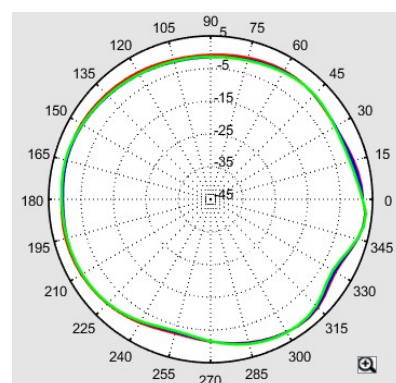
2400MHz 2450MHz 2500MHz



X-Z Plane



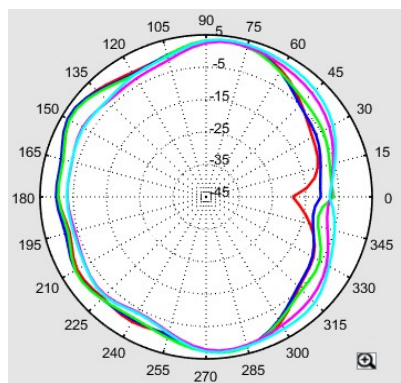
Y-Z Plane



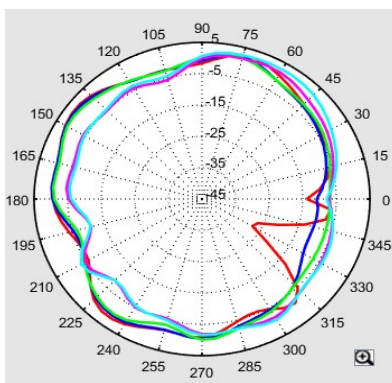
X-Y Plane

### 5150~5850MHz

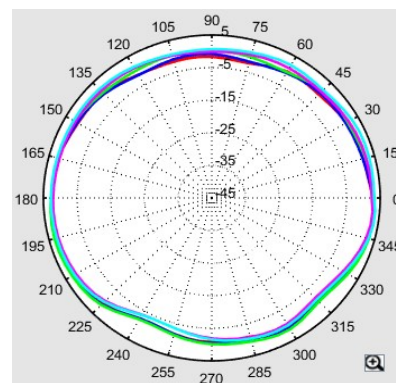
5150MHz 5250MHz 5350MHz 5725MHz 5850MHz



X-Z Plane



Y-Z Plane

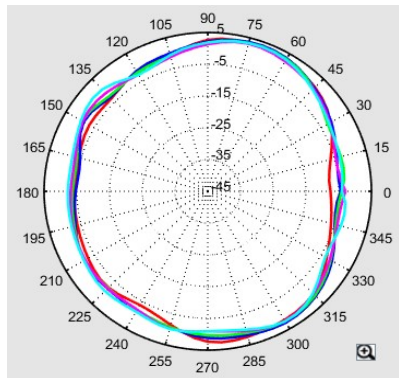


X-Y Plane

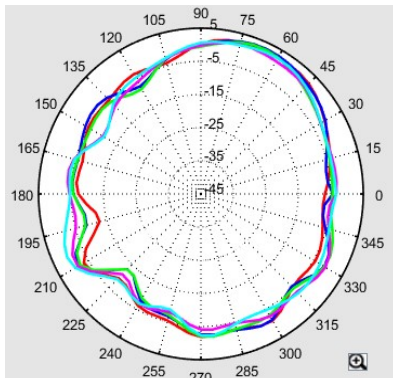
<b>SPEC NO.</b>	<b>SP03AC70000-0030</b>	<b>ISSUED DATE</b>	<b>2023.11.10</b>	<b>PUBLISHED BY</b>
<b>PRODUCT NAME</b>	<b>EW6AA0A1</b>	<b>VERSION</b>	<b>d01</b>	
		<b>PAGE</b>	<b>5/6</b>	

### 5925~7125MHz

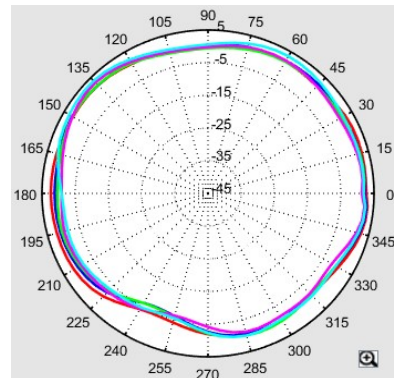
5925MHz 6425MHz 6525MHz 6875MHz 7125MHz



**X-Z Plane**



**Y-Z Plane**



**X-Y Plane**

### Gain table:

Frequency (MHz)	2400	2450	2500	5150	5250	5350	5725
Efficiency (%)	77.09	79.25	73.79	72.61	72.28	69.66	73.28
Average Gain(dB)	-1.13	-1.01	-1.32	-1.39	-1.41	-1.57	-1.35
Peak Gain (dBi)	2.06	2.27	2.88	2.69	2.51	2.58	2.4

Frequency (MHz)	5850	5925	6425	6525	6875	7125
Efficiency (%)	70.15	67.61	70.47	71.45	72.95	75.68
Average Gain(dB)	-1.54	-1.7	-1.52	-1.46	-1.37	-1.21
Peak Gain (dBi)	2.6	2.29	2.52	3.23	3.34	3.52

SPEC NO.	SP03AC70000-0030	ISSUED DATE	2023.11.10	PUBLISHED BY
PRODUCT NAME	EW6AA0A1	VERSION	d01	
		PAGE	6/6	

4.0 Antenna drawing (Unit: mm):

