

Antenna Datasheet

WA1616 Front SDR Ant

2023-07-08

Revision history

Version	Change notes	Modifier	Date
V1.0	First draft.	Rober.Lyu	2023.07.08

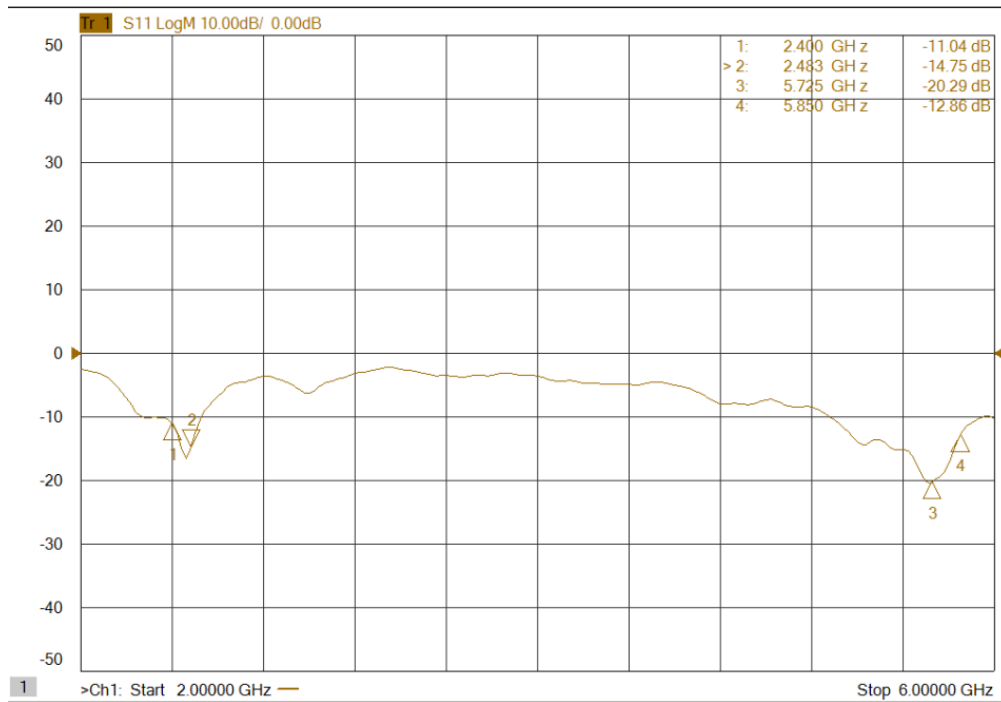
Antenna Datasheet

1、 Basic Specifications

No.	Specification	Descriptions	Notes	
1	Antenna Name	<i>WA1616 Foot SDR Ant</i>		
2	Brand	<i>SPECTA</i>		
3	Operation Frequency	<i>2.4~2.483GHz; 5.725~5.875GHz</i>		
4	Connector Type	<i>IPEX</i>		
5	Impedance	<i>50ohm</i>		
6	Gain	<i>2.5dBi@2.4~2.483GHz 3.5dBi@5.725~5.875GHz</i>		
7	Efficiency	<i>≥55%</i>		
8	VSWR	<i>≤3</i>		
9	Polarization type	<i>Linear</i>		
10	3dB Beamwidth	<i>Omnidirectional horizon, 60° revelation</i>		
11	Weight	<i>/</i>		
12	Antenna type	<i>Dipole Antenna</i>		
13	Manufacturer	<i>Shenzhen ZTX Communication Technology Co., LTD. Kunshan Innowave Communication Technology Co., Ltd.</i>		

2、 Return Loss

Insert radiation return loss.



3、 Radiation Pattern

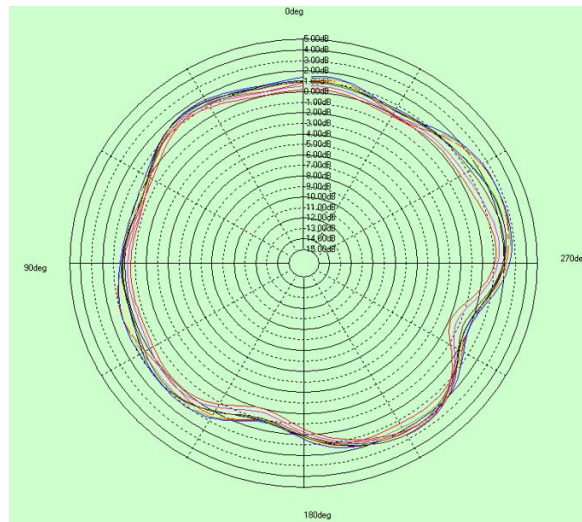
Frequency	Gain(dBi)R	Efficiency(%)R	Gain(dBi)L	Efficiency(%)L
2400MHz	2.30	71%	2.22	71%
2420MHz	2.50	78%	2.41	76%
2440 MHz	2.46	75%	2.48	74%
2460 MHz	2.47	77%	2.50	77%
2480 MHz	2.25	70%	2.31	72%
5725 MHz	3.46	72%	3.43	71%
5775 MHz	3.49	74%	3.50	74%
5800 MHz	3.37	72%	3.29	72%
5850 MHz	3.19	72%	3.17	70%

3、 Radiation Pattern

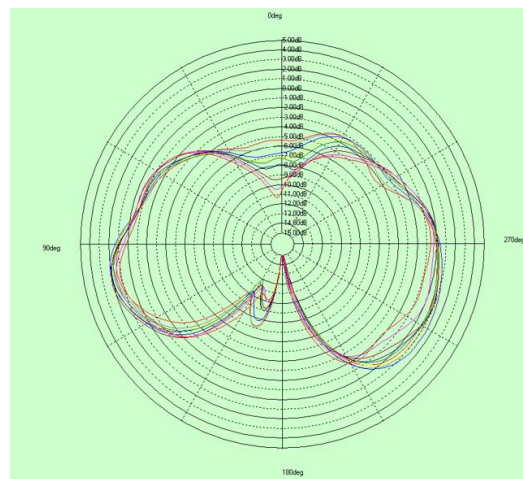
Test lab: Satimo SG24

Test date: 2023/06/10

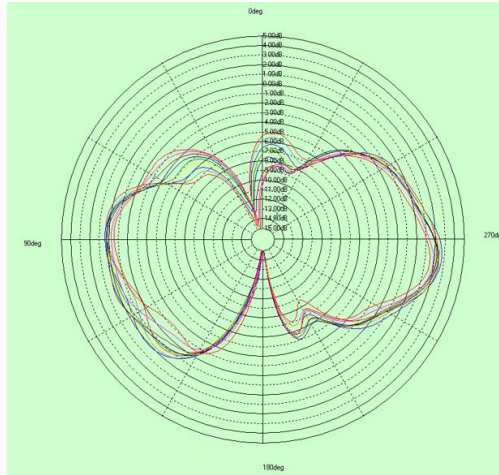
Theta=90 度



Phi=0 度

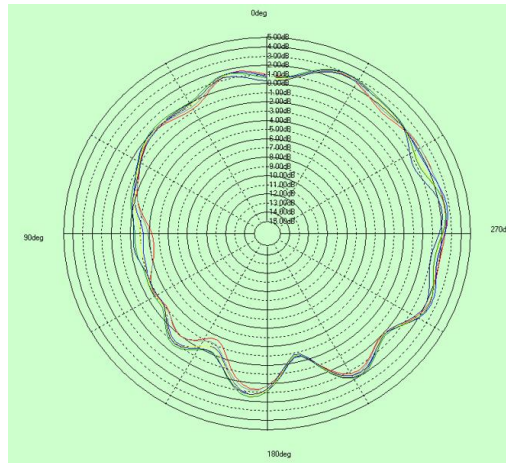


Phi=90 度

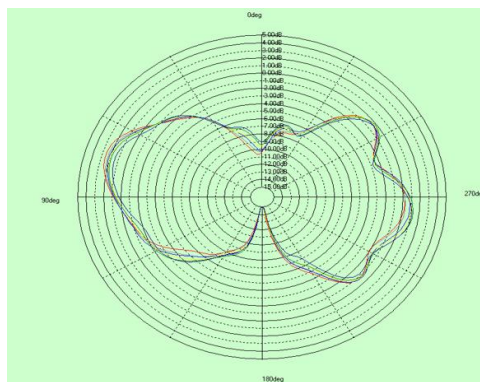


5.8G

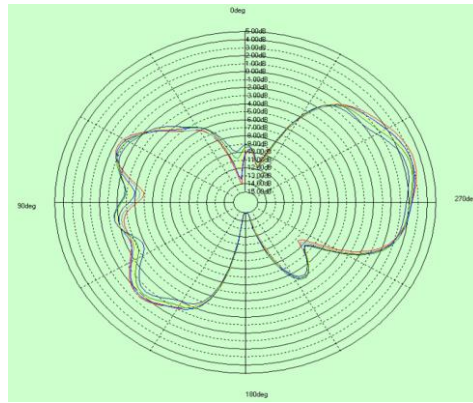
Theta=90 度



Phi=0 度



Phi=90 度



4、 Structure drawing

Please refer to antenna photo.