

VLG TECHNOLOGY

Shenzhen VLG Wireless Technology Co.,Ltd

Bluetooth antenna specification

Model Name	F58 (TX ANT2)			Frequency band	5720-5850MHZ		
VLG P/N	V1516-007-A-03			Version number	A		
RF engineer	You yan li	verify	邵燕丽	Quality engineer	Yu hong	verify	余宏
Structural engineer	He fa rong		何发荣	PM	Bai feng lian		白凤莲
Date	2024-6-19						
Customer project Name part number	Customer project name:						
	Customer item number:						
Customer confirmation							
RF engineer				Quality engineer			
Structural engineer				PM			
Date							
Customer satisfaction survey (Customers please comment on our research and development or PM management staff to urge us to better serve you)							
RF engineer	<input type="checkbox"/> satisfaction		<input type="checkbox"/> Basic satisfaction		<input type="checkbox"/> dissatisfy		
Structural engineer	<input type="checkbox"/> satisfaction		<input type="checkbox"/> Basic satisfaction		<input type="checkbox"/> dissatisfy		
PM	<input type="checkbox"/> satisfaction		<input type="checkbox"/> Basic satisfaction		<input type="checkbox"/> dissatisfy		
Suggestion statement:							

Antenna manufacturer: Fender Musical Instruments  
Address: 17600 N. Perimeter Drive, Suite 100, Scottsdale AZ 85255 United States Of America

## 1、Antenna picture

This report is the RF report of F58, The antenna is a single frequency antenna, The antenna is made of PCB Make up.



## 2、antenna test environment

### Antenna test equipment

#### 4.1 antenna passive test environment

The efficiency of the antenna was measured in the VLG Communication Technology anechoic chamber. SATIMO Star lab: Frequency bands 800MHz—6GHz. The measurement results are calibrated using both dipole and leaky wave horn standards

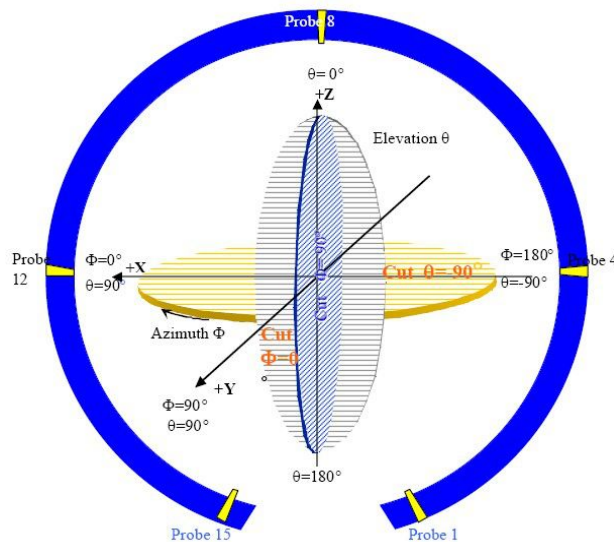


Figure.4.1 SHEN ZHEN VLG chamber system

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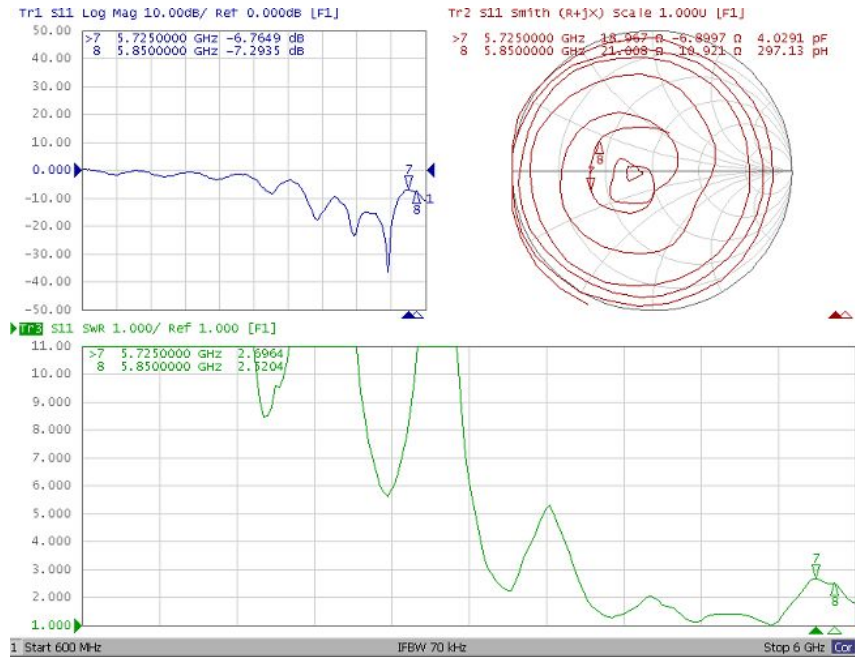
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### 3、Matching circuit

Matching circuit provided by customer

### 4、Electrical performance

#### 4.1 S11 argument: (Return loss)、(Smith chart)、(VSWR)



#### 4.2 Efficiency

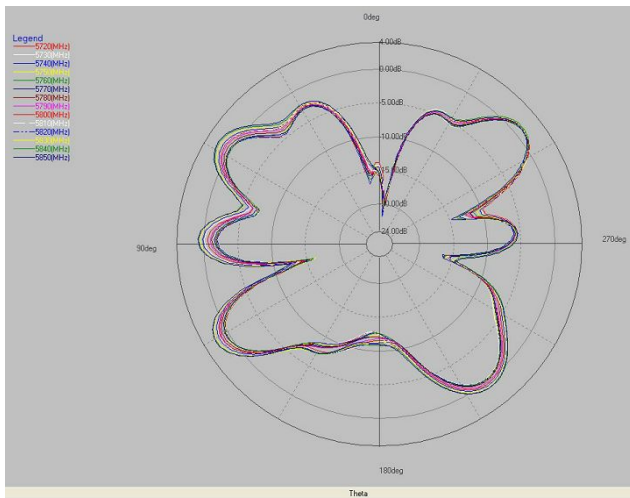
Frequency (MHZ)	Efficiency (%)	Efficiency . dB	Peak_Gain . dBi
5720	20%	-7.07	1.42
5730	19%	-7.10	1.37
5740	20%	-7.08	1.35
5750	20%	-6.94	1.39
5760	20%	-7.01	1.24
5770	20%	-6.88	1.31
5780	22%	-6.64	1.49
5790	23%	-6.44	1.53
5800	24%	-6.21	1.89
5810	25%	-6.01	2.25
5820	25%	-5.94	2.35
5830	27%	-5.76	2.59
5840	28%	-5.54	2.95
5850	28%	-5.54	2.97

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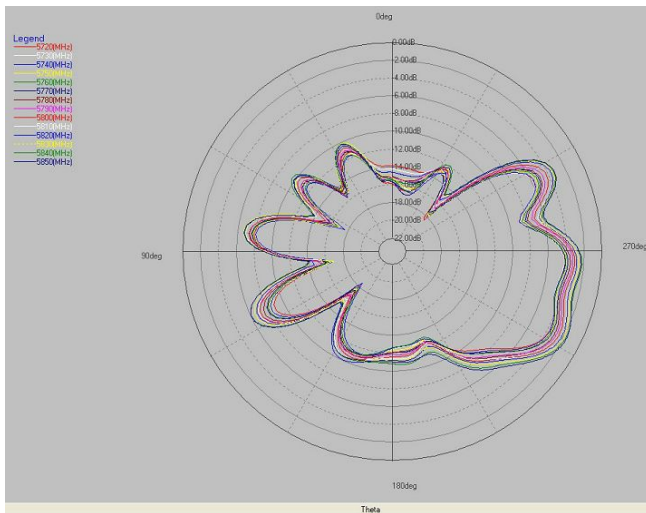
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### 4.3 Radiation Pattern:

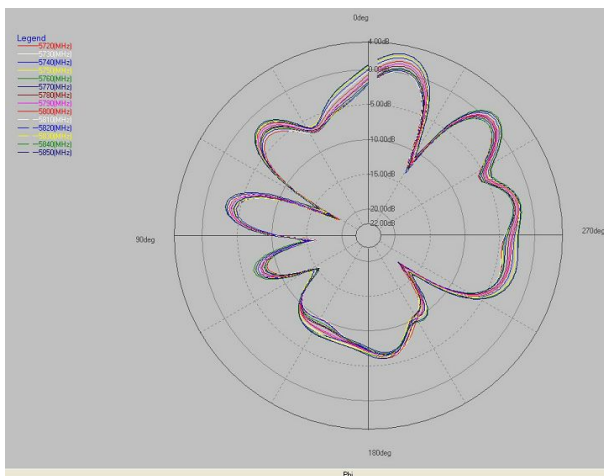
Phi=0



Phi=90

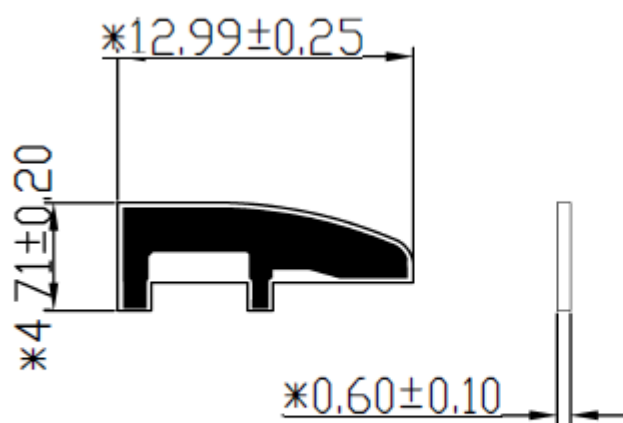


Theta=90

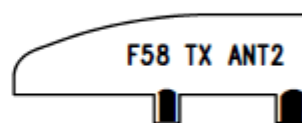


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