



C351 Antenna Specification

1. Update History

Reversion	Description	Date	Eidtor
1.0	1 st version	Mar.2,2021	Weixiao
2.0	Gain appended	Jun.28,2021	Gravin lai

2.Part Application

This Wifi antenna is applied to C351 project.

3.Envirmental Conditions

Work Temp.: -40℃~85℃

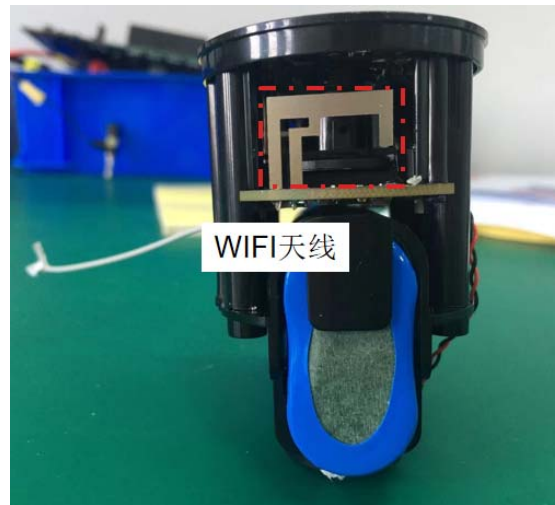
Storage Temp.: -10℃~40℃

4.Electrical Characteristic

Electrical Properties	
Antenna Performance Index (Wifi Antenna)	
Frequency (MHz)	2400-2500
Band Width (MHz)	100
Input Resistance (Ω)	50
VSWR	≤2.0
Polarization	Linear polarization
Radiation Efficiency	≥40%

File no.	MH0176-W01-00	Cust.P/N			
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Editor	Wei Xiao	Auditor	Gravin Lai	Approved	Zhiwen Xiang

5. Antenna Assembly Picture

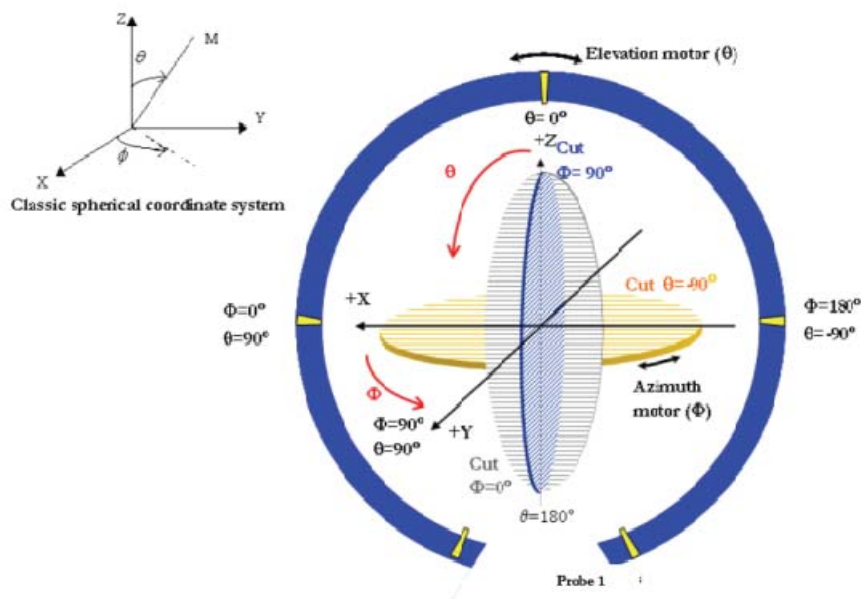


6. Electrical Performance Set-up

1.1 Set-up

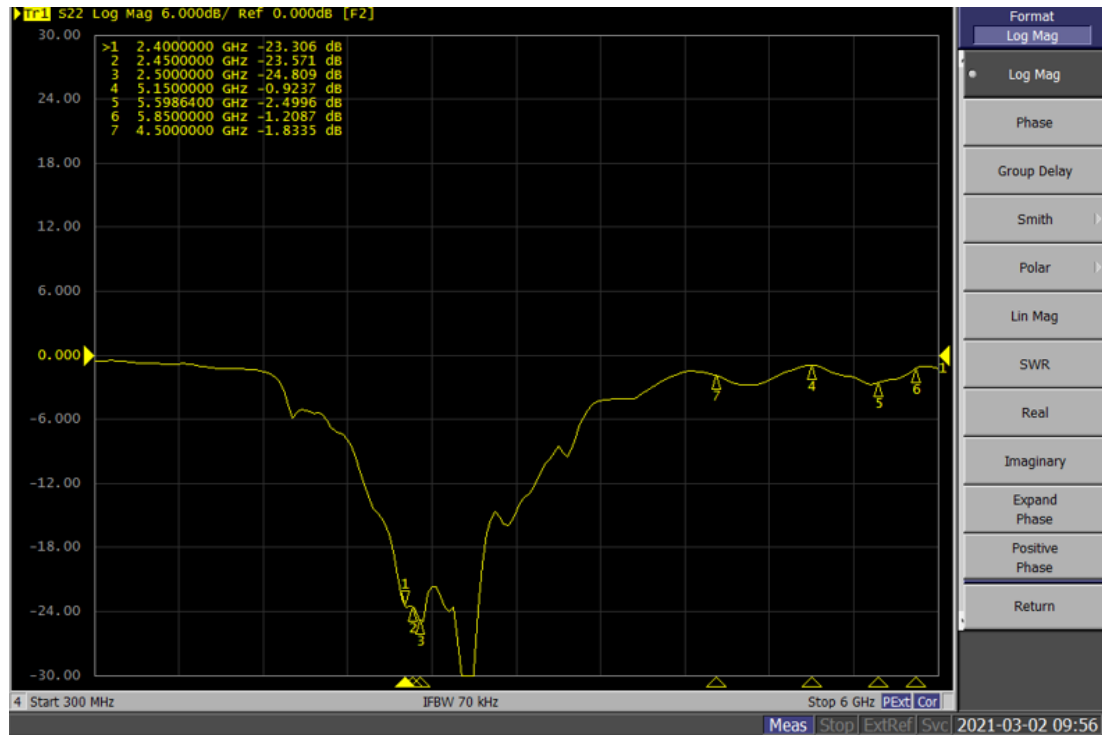
Antenna input characteristics measurements (S_{11}) were performed using an Agilent E5071C Network Analyser. Coaxial chokes were used to mitigate surface currents on the outside of the cabling. The testing was performed in free space.

Antenna radiation characteristics was measured in Yunzhihong's 3D anechoic chamber in Kunsha, China. The chamber is a multiprobe system capable of doing tests from 400MHz to 6GHz. Coaxial chokes on the feed cable were used to mitigate surface currents. The measurement results are calibrated using dipole standards.



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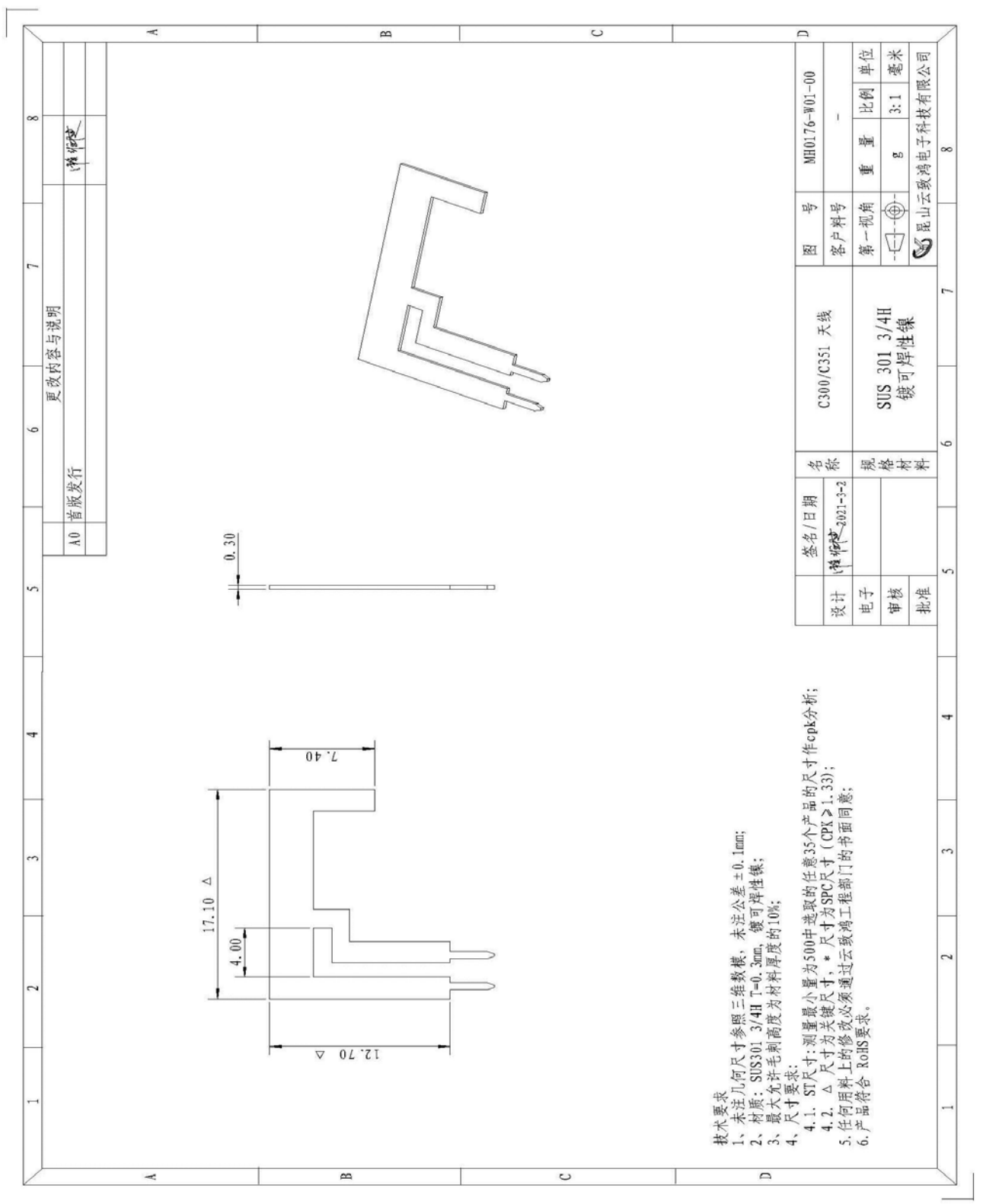
7. Antenna Measurement Data



Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	46.96	-3.28	1.03
2410	43.23	-3.64	0.66
2420	46.32	-3.34	0.93
2430	44.87	-3.48	0.69
2440	46.03	-3.37	0.75
2450	46.46	-3.33	0.82
2460	42.92	-3.67	0.44
2470	40.73	-3.9	0.13
2480	43.11	-3.65	0.26
2490	42.78	-3.69	0.11
2500	46.07	-3.37	0.2

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8. Engineering Drawing



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9 Package

Vendor : Kunshan Yunzhihong Electronics and Technology Co.,Ltd.

P/N	MH0176-W01-00	Part Name	C351 Antenna	Date	Mar.,2,2021
简图			要求		
					
内包装说明			包装箱说明		
外形尺寸: 35cm* 20 cm* 30cm			外形尺寸: 30cm* 20 cm* 135 cm		
材 料: PE 袋包装			材 料: 纸箱		
零件数/包: 1000PCS/包			零件数/箱: 整箱 30000PCS/箱		

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