Admit it

The product description:	The manufacturer:	Welletronics Communication Technology Limited	Project type:	IDS03
	The name of the material:	Metal mid-frame antenna	Specification/Color:	
	Material code:		Sign the sample date:	2023.06.30
	The version number:	V1.0	note:	
The attachment:	■ Description of electrical and mechanical properties (Specification) ■ Manufacturing flow chart ■ QCEngineering drawing ■ The sample ■ CPK report ■ Full size measurement report ■ Reliability test report ■ The packing way ■ Raw material list report /RoHS report/HF/REACH			
Supplier sign and approve	artificial:	audit:	approval:	

The above shall be filled in by the supplier and the following shall be filled in by Aidu

	department	**Confirm the content**				**Verify the results**	**Confirm person/date**
Technical confirmation column	Supplier quality	☐ RoHS material ☐ no RoHS material	☐Meet REACH requirements	☐ Meet halogen-free requirements	☐Other Environmental Requirements		
	ID of Design Department	☐The customer request ID	☐Color confirmation	☐Surface process confirmation	☐Shell, hardware, key material		
	Structural engineer	☐ Confirm the size of 2D drawing files ☐Specifications and technical requirements	☐Focus on size marking control ☐Electrical performance parameter	☐Adapter validation ☐function	☐Shell, hardware, key material ☐The effect		
	Hardware engineer	☐ Confirm the size of 2D drawing files ☐Specifications and technical requirements	☐Focus on size marking control ☐Electrical performance parameter	☐Adapter validation ☐function	☐Shell, hardware, key material ☐The effect		
	R&d quality	☐Test standard confirmation ☐appearance	☐Standardization of dimension marking (key dimensions)	☐ Reliability verification ☐Adapter validation	☐function ☐The effect		
Final confirmation	Project Manager	☐Acknowledge the completeness of the documents ☐Standardization of dimension marking (key dimensions)	☐Specifications and technical requirements ☐appearance	☐Electrical performance parameter	☐function ☐The effect		

Admitted conditions:	☐ Official recognition ☐ Set limit to admit ☐ Refuse to admit
Distribution department:	☐ IQC ☐ supplier ☐ The customer ☐ after-sales ☐ SQE/ Document control ☐ other _____

Catalog

Three 、Change history

Change of resume

Serial number	Date of change	entry name	Edition	Change content	Remarks
1	Jun 30, 2023	IDS03 Metal mid-frame antenna	V1.0	nothing	New issue

Four、 Electrical characteristics

1.Antenna Structur

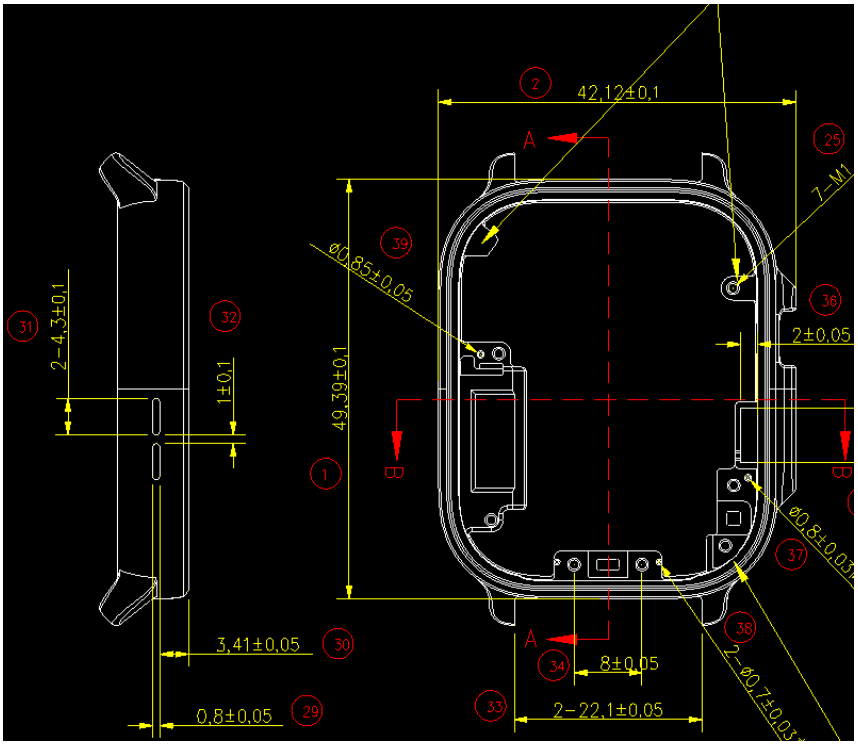
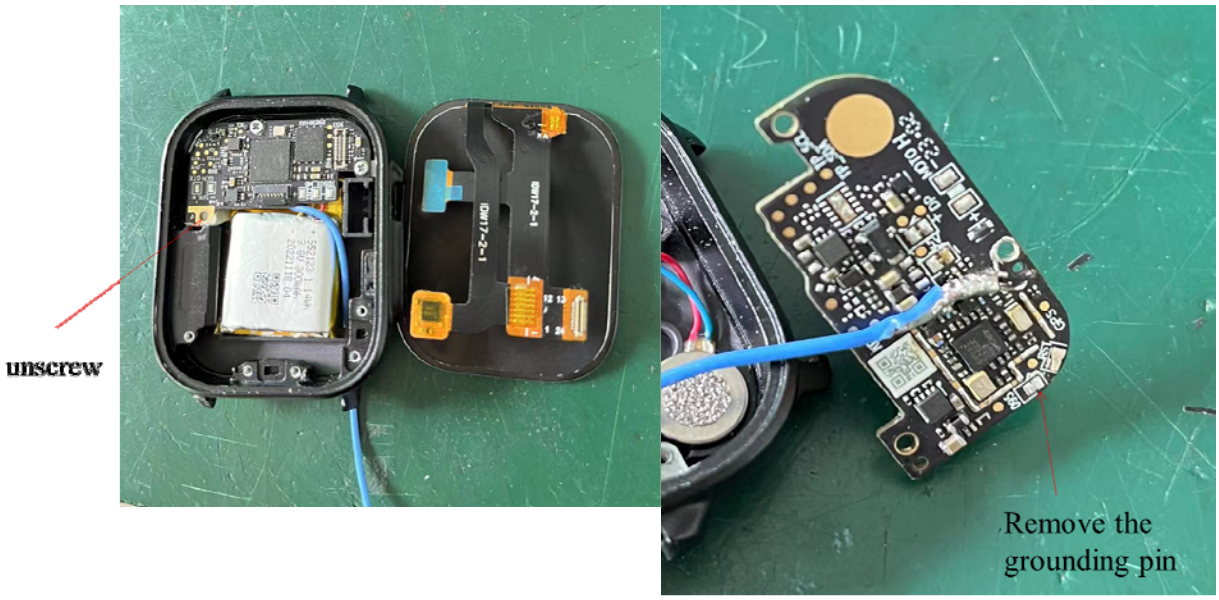
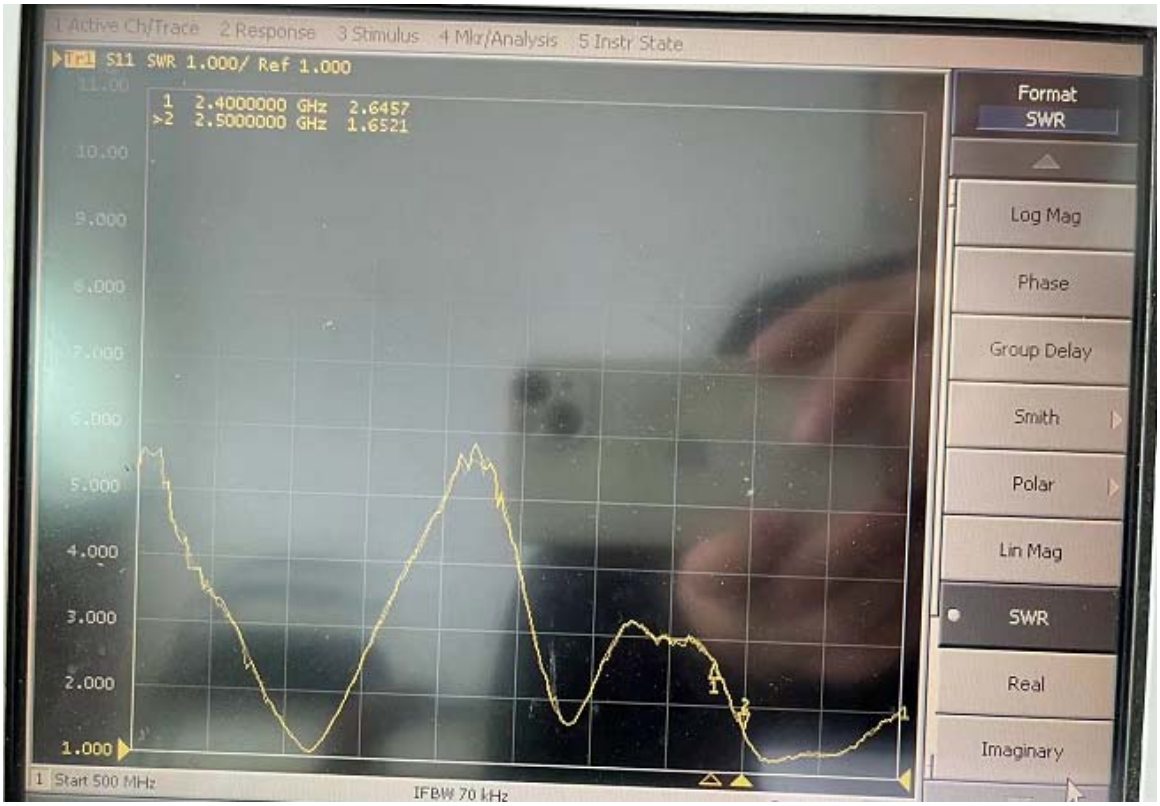


Figure antenna structure



2.Test Results

BT SWR



Test Repor **No source by space test efficiency/pattern**

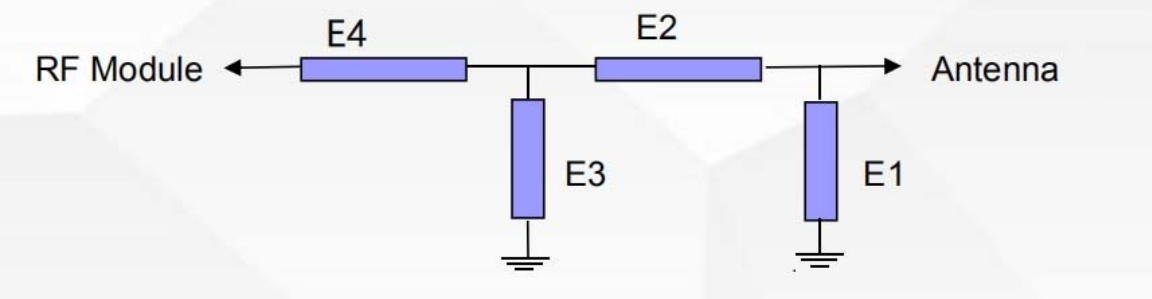
Free space

Freq	Efficiency_dB	Efficiency_Pcent	Gain dBi
2400	-7.56	17.56	-3.91
2410	-7.65	17.16	-4.07
2420	-7.56	17.55	-3.98
2430	-7.65	17.2	-3.95
2440	-7.61	17.32	-3.71
2450	-7.52	17.72	-3.25
2460	-7.49	17.83	-2.99
2470	-7.71	16.96	-3.12
2480	-8.02	15.77	-3.45
2490	-8.4	14.45	-3.73
2500	-9.17	12.1	-4.36

Add the arm

Freq	Efficiency_dB	Efficiency_Pcent	Gain dBi
2400	-11.47	7.13	-5.66
2410	-11.65	6.85	-5.79
2420	-11.81	6.59	-5.82
2430	-11.84	6.55	-5.66
2440	-11.68	6.8	-5.38
2450	-11.86	6.51	-5.45
2460	-12.05	6.24	-5.58
2470	-12.13	6.13	-5.66
2480	-12.2	6.02	-5.75
2490	-12.3	5.89	-5.7
2500	-12.35	5.82	-5.88

Match



Antenna	Element	Value
	E1	
	E2	0Ω
	E3	
	E4	0Ω

3. The direction of figure