



Material Approval Certificate

APPROVAL SHEET

Project Name:	GV350CEU				
Material Number Code:	QK1027200575				
Supplier Name:	Shenzhen VLG Wireless Technology Co., Ltd.				
name of material:	V2212-025-A-01				
Material Description:	Antenna GV350CEU CELL VLG RO				
Sample submission date:	2026/8/1				
Environmental Protection Certification:	ROHS ☒ Reach ☒ POPs ☐ Other Certifications:				
Main Performance ☐	drawing ☐	Measurement Report ☐	Key Materials ☐	reliability report ☐	Packaging Information ☐
Auditing	R&D Department	Project Department	purchase department	quality department	

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VLG TECHNOLOGY

ShenZhen VLG Wireless TECHNOLOGY CO.,LTD

Shenzhen VLG Wireless Technology Co., LTD Acknowledgment

Customer/project name	Queclink/GV350CEU			Frequency band	LTE		
VLG P/N	V2212-025-A-01			Version	R:A		
RF	HeJunSun	Confirm		Quality	YuHong	Confirm	
Structure	HeFaRong			PM	YuWei		
Date	2026-8-1						
Customer project name and P/N	Customer project name: GV350CEU						
	Customer project P/N: QK1027200575						
Customer Confirmation							
VLG Communication Technology							
R&D Customer satisfaction survey of R&D projects (Customers please comment on the work of our R & D or PM management staff and urge us to better serve you)							
RF technician	☐ satisfaction		☐ be basically satisfied		☐ Dissatisfaction		
Structural technician	☐ satisfaction		☐ be basically satisfied		☐ Dissatisfaction		
Project Management (PM Manager)	☐ satisfaction		☐ be basically satisfied		☐ Dissatisfaction		
Description of suggested items:							
ANT Picture:							
							

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Design Specifications	Typical	Units
Antenna form	Steel plate antenna	
working Frequency	700-960,1710-2690	MHz
Gain	≤ 6	DBi
Antenna efficiency	30-80	%
VSWR	≤ 4	
Ploriaztion	Line polarization	
Axial Ratio	/	N/A
Radiation pattern	all-around	
impedance	50 ohm	
Power handling	/	
Interface	SMT	
Overal dimensions	See drawing section	

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GV350CEU Antenna Acknowledgment

1、**Specifications:** The report mainly provides the test status of the electrical performance parameters of the GV350CEU 4G antenna. 4G antennas are in the 700~960MHz/1710~2690MHz band.



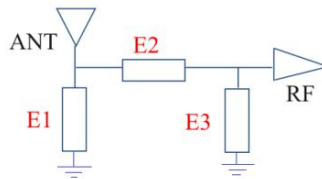
Electrical Specification

2.1 specification standard

The working frequency band of 4G antenna is in 700 ~ 960 MHz / 1710 ~ 2690 MHz frequency band. The following table is the passive performance test index of the antenna

2.2 Antenna matching circuit:

E1	15nH
E2	0Ω
E3	N/A



Switch	Match value	Frequency Band
RF1	0Ω	B1/B2/B3/B4/B8
RF2	6.8nH	B5/B20
RF3	18nH	B28
RF4	0Ω	B7

2.3 ANT VSWR

2.3.1 Test setup

VSWR The test device is successively connected as: 8714ET:network analyzer→50 Ω coaxial

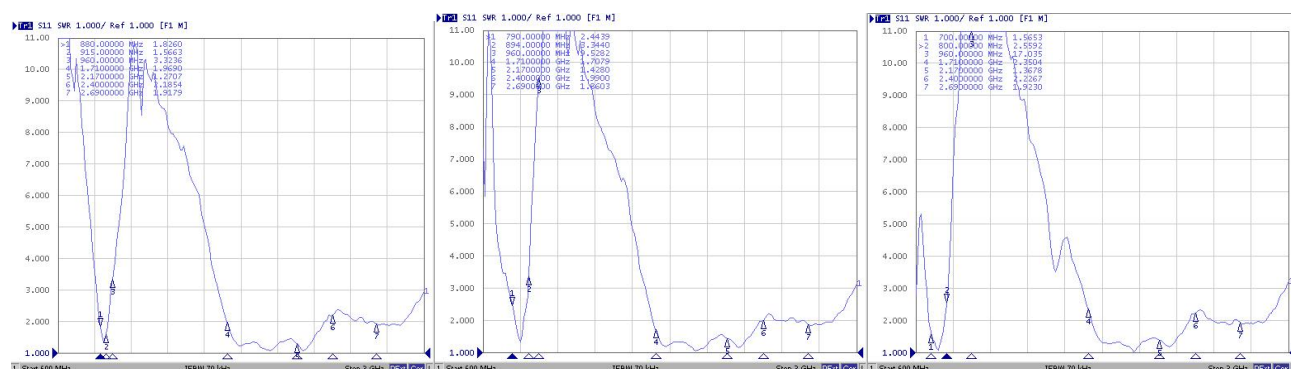
Cable→→**Test Fixture**

Treatment of test fixture: a cable is used to lead out the SMA connector at the 50 ohm test point of the antenna, which is connected with the copper tube with a choke, and then connected to other devices in turn.

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2.3.2 ANT VSWR:



2.4 Passive test data:

Frequency	Efficiency	Efficiency . dB	Gain . dB	Frequency	Efficiency	Efficiency . dB	Gain . dB	Frequency	Efficiency	Efficiency . dB	Gain . dB
700	42%	-3.8	0.3	790	47%	-3.3	0.9	1710	61%	-2.2	2.6
710	43%	-3.7	0.4	800	45%	-3.5	0.8	1745	62%	-2.1	2.5
720	40%	-3.9	1.1	810	43%	-3.7	0.6	1780	61%	-2.2	3.3
730	48%	-3.2	1.4	820	54%	-2.6	2.1	1815	60%	-2.2	3.3
740	47%	-3.3	1.0	830	59%	-2.3	3.1	1850	62%	-2.0	2.9
750	50%	-3.0	2.1	840	60%	-2.2	3.4	1885	68%	-1.7	2.7
760	46%	-3.3	1.8	850	56%	-2.5	2.9	1920	72%	-1.4	5.1
770	46%	-3.4	2.0	860	53%	-2.8	2.9	1955	72%	-1.4	5.5
780	40%	-4.0	1.8	870	50%	-3.1	2.9	1990	71%	-1.5	4.9
790	35%	-4.6	0.9	880	45%	-3.4	2.5	2025	68%	-1.7	3.8
800	32%	-4.9	0.4	890	41%	-3.9	1.8	2060	74%	-1.3	4.6
				900	38%	-4.2	1.2	2095	75%	-1.3	4.1
								2130	69%	-1.6	4.2
				880	59%	-2.3	3.8	2165	68%	-1.7	4.0
				888	63%	-2.0	3.7	2200	64%	-1.9	3.9
				896	66%	-1.8	4.0	2235	65%	-1.9	3.8
				904	63%	-2.0	4.0	2270	70%	-1.5	4.2
				912	59%	-2.3	3.8	2305	77%	-1.1	4.5
				920	55%	-2.6	3.4	2340	75%	-1.3	4.4
				928	52%	-2.8	2.9	2375	69%	-1.6	4.3
				936	51%	-2.9	2.6	2410	63%	-2.0	3.5
				944	50%	-3.0	1.9	2445	57%	-2.4	3.3
				952	47%	-3.3	1.4	2480	57%	-2.5	2.9
				960	44%	-3.5	1.2	2515	60%	-2.2	3.0
								2550	61%	-2.1	3.2
								2585	61%	-2.1	2.9
								2620	60%	-2.2	3.0
								2655	60%	-2.2	2.3
								2690	62%	-2.1	1.8

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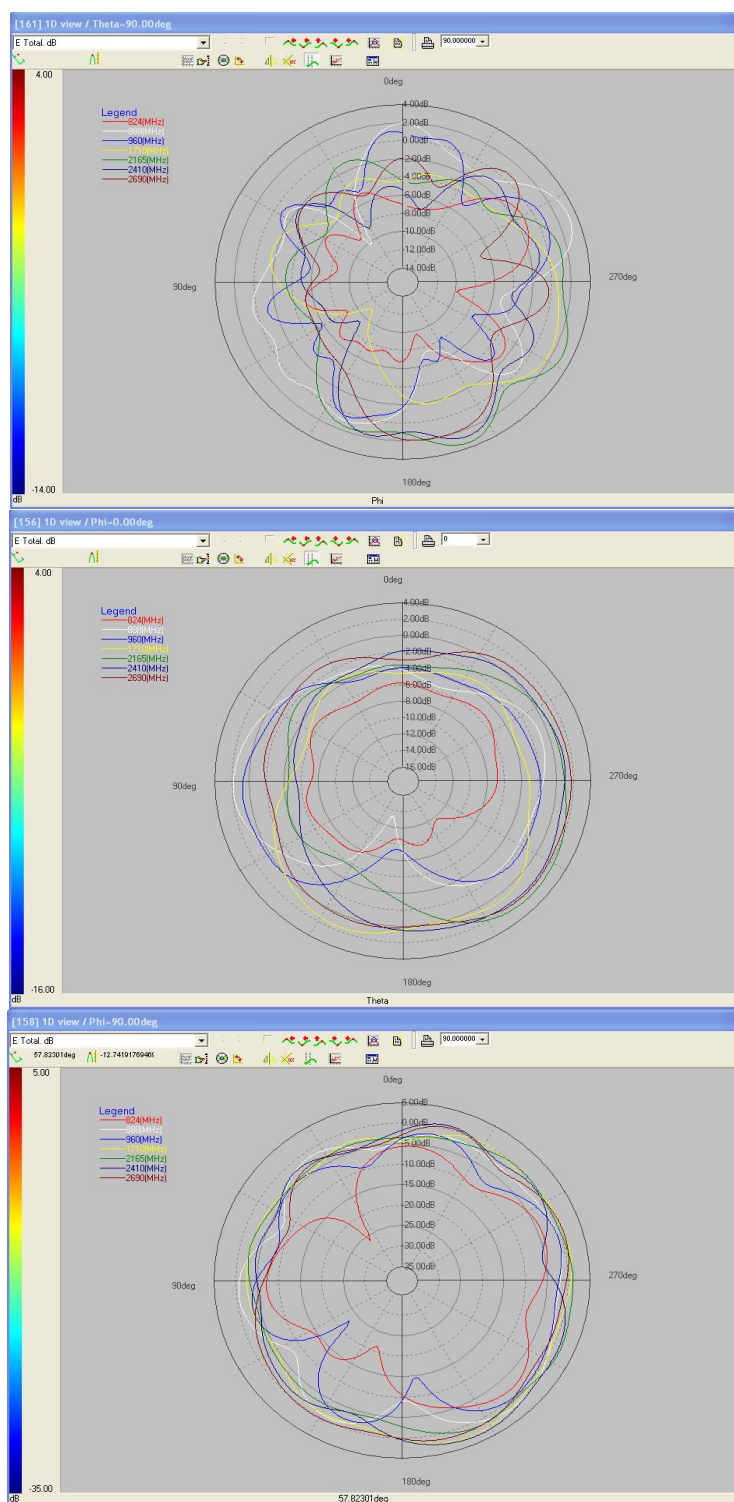
2.5 Active test data

Band	Channel	TRP	Channel	TIS
FDD-B1	18050	20.92		
	18300	21.49		
	18550	20.14	550	-96.26
FDD-B2	18650	21.07		
	18900	20.31		
	19150	21.56	1150	-96.44
FDD-B3	19250	20.68		
	19575	20.79		
	19900	20.56	1900	-95.25
FDD-B4	20000	21.28		
	20175	20.67		
	20350	21.54	2350	-96.31
FDD-B5	20450	20.02		
	20525	20.51		
	20600	21.06	2600	-94.28
FDD-7	20850	19.86		
	21100	20.48		
	21350	20.9	3350	-95.71
FDD-B8	21500	19.65		
	21625	20.43		
	21750	19.7	3750	-93.17
FDD-B20	24200	19.86		
	24300	20.44		
	24400	20.33	6400	-94.2
FDD-B28	27260	18.94		
	27435	17.27		
	27610	19.45	5800	-94.17

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2.6 Directions



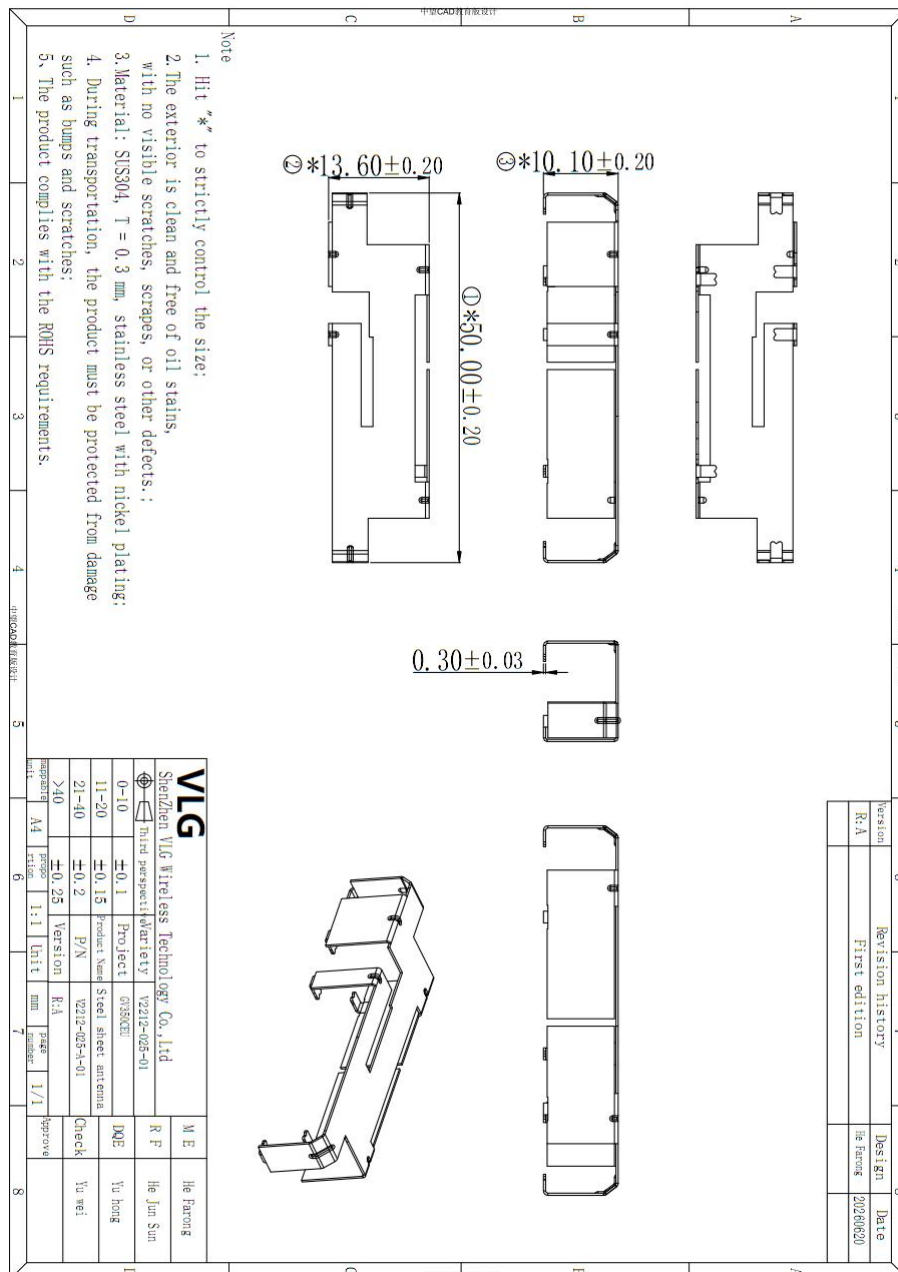
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3、Recommendations and conclusions

This report is based on the electrical performance of the final version of the GV350CEU 4G antenna supplied by the customer. As can be seen from the above test data, this antenna provides better electrical performance. VLG R & D staff look forward to your confirmation, thank you for your cooperation!

4、Product 2D Drawing:



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5. Dimension Measurement Report

ShenZhen VLG Wireless Technology Co.,Ltd

Sample size inspection report (FAI)

Customer name		Queclink		Product Name		GV350CEU		Product type		LTE			
Supplier Name		/		P/N		V2212-025-A-01		Inspectors		YuHong			
Drawing version		A		Unit		mm		Inspection date		2026.08.01			
Serial number	Inspection items	Testing standard		Actual measured dimensions					Judgment result	Testing instrument	Accuracy point name	Remarks	
													1
1	Appearance	See a brief description of the appearance defects		OK	OK	OK	OK	OK	OK	Visual inspection			
Drawing dimensions			50.00	±	0.2	50.15	50.18	50.13	50.16	50.11	OK	PM	
			13.60	±	0.2	13.65	13.58	13.60	13.67	13.63	OK	PM	
			10.10	±	0.20	10.17	10.09	10.13	10.15	10.09	OK	PM	
			0.30	±	0.03	0.32	0.31	0.30	0.32	0.31	OK	PM	
final determination: OK ☒ NG ☐													

The abbreviations of the testing instruments are as follows: PG - plug (round hole) gauge, RG - R gauge, SG - block gauge, LG - ring gauge, DC - digital caliper, PM - Two-dimensional coordinate projector

Version:A.0

Form number:VLG/QRF8.2-28/A.0

Inspection:Jiang Tao

Review:

Approval: Yu Hong

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