

TEST REPORT

Applicant: Shenzhen Xinyong Technology Co., Ltd.

1714A, Block D, Zhongtai Yannan Mingting, No. 88 Yannan Road, Fugiang Address of Applicant:

Community, Huagiangbei Street, Futian District, Shenzhen, China

Manufacturer/Factory: Shenzhen Xinyong Technology Co., Ltd.

Address of

Manufacturer/Factory:

1714A, Block D, Zhongtai Yannan Mingting, No. 88 Yannan Road, Fugiang

Community, Huagiangbei Street, Futian District, Shenzhen, China

Product Name: WIRELESS CHARGER

Model No.: GYV8,GY11,GY12,GY14,GY75,GY68,GY88,GY79,GY63,GY99,GY73,GY55

Trade Mark: N/A

FCC ID: 2A6KW-GYV8

FCC CFR Title 47 Part 18 Applicable standards:

Aug.15, 2022 - Aug.24, 2022 Date of Test:

Sep.01,2022 Date of report issued:

PASS Test Result:

Remark:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full without prior written permission of the company.

The report would be invalid without specific stamp of test institute and the signatures of compiler and approver

Prepared By

Shenzhen ETR Standard Technology Co., Ltd.

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Guangdong, China

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Reviewed by:

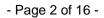
Smith chen

Authorized Signature

Project Engineer

Project Manager

^{*} In the configuration tested, the EUT complied with the standards specified above.





Report Revision History

Report No. Description Issue Date

ET-22082000E01 Original Sep.01,2022

Report No.: ET-22082000E01



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Test Summary

Test Item	Section in CFR 47	Result	Test by
AC Power Line Conducted Emission	18.307(b)	Pass	Qiao Li
Radiated Emission	18.305(b)	Pass	Qiao Li

Remarks:

- 1. Pass: The EUT complies with the essential requirements in the standard.
- 2. Test according to FCC MP-5

Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9KHz-30MHz	±3.98 dB	(1)
Radiated Emission	30MHz-1000MHz	±4.30 dB	(1)
Radiated Emission	1GHz-18GHz	±4.35 dB	(1)
Radiated Emission	18GHz-40GHz	±4.59 dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	± 3.02 dB	
Note (1): The measurement unce	ertainty is for coverage factor of k	-2 and a level of confidence of 9	95%



2 General Information

2.1 General Description of EUT

Product Name:	WIRELESS CHARGER		
Model No.:	GYV8,GY11,GY12,GY14,GY75,GY68,GY88,GY79,GY63,GY99,GY73,		
	GY55		
Model of difference:	All the models are the same circuit and RF module, except the face cover.		
Test model:	GYV8		
Sample(s) Status:	Engineer sample		
Hardware Version:	V1.0		
Software Version:	V1.0		
Operation Frequency:	115~205KHz		
Modulation type:	ASK		
Antenna Type:	Induction coil Antenna		
Power supply:	Input: DC 5V/9V from adapter		
Power supply:	Output: wireless15W(5V/9V)		



2.2 Test mode

load (5W) Pre-tested
load (7.5W) Pre-tested
load (10W) Pre-tested
load (15W) Record
I

Note: All test modes were pre-tested, but we only recorded the worst case in this report.

2.3 Description of Support Units

Equipment	Model	S/N	Manufacturer
Adapter	HW-050200CH0	/	HUAWEI
Load	/	/	/

2.4 Deviation from Standards

None.

2.5 Abnormalities from Standard Conditions

None.

2.6 Test Facility

Test laboratory: Shenzhen ETR Standard Technology Co., Ltd.

CNAS Registration Number: L11864 A2LA Certificate Number: 6640.01 FCC Designation Number: CN1326 FCC Test Firm Registration: 183064

2.7 Test Location

All tests were performed at:

Laboratory location:

No.103, No.10, Phase I, Zone 3, Xinxing Industrial Park, Xinhe,

Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Telephone: +86 755 85259392 Fax: +86 755 27219460

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3 Test Instruments list

Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	EMI Test Receiver	Rohde&schwarz	ESPI7	100605	2022.3.09	2023.3.08
2	EMI Test Receiver	Rohde&schwarz	ESCI3	102696	2022.3.09	2023.3.08
3	Broadband antenna	schwarabeck	VULB9168	1064	2022.3.11	2024.3.10
4	amplifier	EMtrace	RP01A	50117	2022.3.09	2023.3.08
5	Artificial power network	schwarabeck	NSLK8127	8127483	2022.3.09	2023.3.08
6	Artificial power network	ETS	3186/2NM	1132	2022.3.09	2023.3.08
7	10dB attenuator	HUBER+SUHNE R	10dB	1	2022.3.09	2023.3.08
8	Spectrum analyzer	KEYSIGHT	N9020A	MY55370280	2022.3.09	2023.3.08
9	loop antenna	schwarabeck	FMZB 1519 B	FMZB 1519 B	2022.3.11	2024.3.10

Note: the calibration interval of the above test instruments is 12 or 24 months and the calibrations are traceable to international system unit (SI).

Software Name	Manufacturer	Model	Version
Conducted test software	EZ-EMC	Farad	Ver.EMC-CON 3A1.1
Radiated test software	EZ-EMC	Farad	Ver.FA-03A2 RE



Test results and Measurement Data

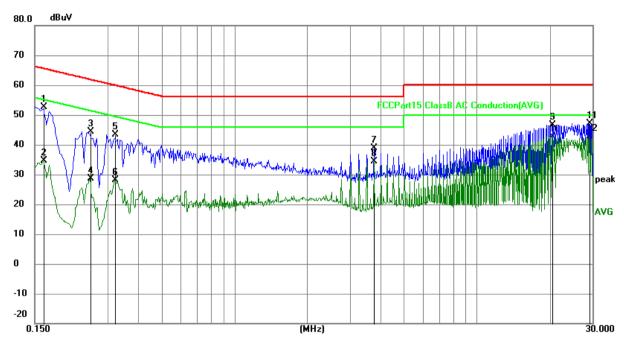
Conducted Emissions 4.1

Test Requirement:	FCC Part18.307(b)					
Test Method:	FCC MP-5					
Test Frequency Range:	150KHz to	30MHz				
Receiver setup:	RBW=9KHz	z, VBW=30KH	lz, Sweep tir	ne=auto		
Limit:	Fragues	ov rongo (MH)	-\	Limit	(dBuV)	
		cy range (MH:	' QU	ıasi-peak		rage
).15-0.5	- 6	66 to 56*		o 46*
	0.5-5 56 46 5-30 60 50					
	* D				5	0
Test setup:	Decreases	s with the loga Reference		rrequency.		
Test procedure:	AUX Equipment Test table/Insulation plane Remark E.U.T EMI Receiver Remark E.U.T. Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m					
rest procedure.	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement. 					
Test Instruments:	Refer to section 3.0 for details					
Test mode:	Refer to section 2.2 for details					
Test environment:	Temp.: 26.1°C Humid.: 42% Press.: 1012mbar					
Test voltage:	DC 12V from	m adapter wit	h AC 120V/6	60Hz		



Measurement data

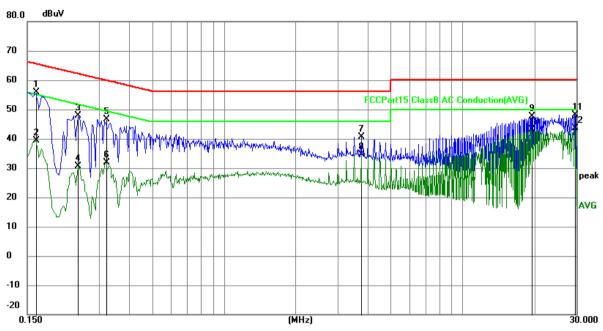
Line:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1635	40.12	12.48	52.60	65.28	-12.68	QP
2	0.1635	22.18	12.48	34.66	55.28	-20.62	AVG
3	0.2535	31.89	12.42	44.31	61.64	-17.33	QP
4	0.2535	16.09	12.42	28.51	51.64	-23.13	AVG
5	0.3209	30.89	12.39	43.28	59.68	-16.40	QP
6	0.3209	15.73	12.39	28.12	49.68	-21.56	AVG
7	3.7770	26.47	12.32	38.79	56.00	-17.21	QP
8	3.7770	22.01	12.32	34.33	46.00	-11.67	AVG
9	20.5170	34.01	12.56	46.57	60.00	-13.43	QP
10	20.5170	29.98	12.56	42.54	50.00	-7.46	AVG
11	29.2065	34.46	12.69	47.15	60.00	-12.85	QP
12	29.2065	30.14	12.69	42.83	50.00	-7.17	AVG



Neutral:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1635	43.35	12.48	55.83	65.28	-9.45	QP
2	0.1635	26.78	12.48	39.26	55.28	-16.02	AVG
3	0.2445	35.47	12.43	47.90	61.94	-14.04	QP
4	0.2445	18.14	12.43	30.57	51.94	-21.37	AVG
5	0.3209	34.23	12.39	46.62	59.68	-13.06	QP
6	0.3209	19.60	12.39	31.99	49.68	-17.69	AVG
7	3.7725	28.26	12.32	40.58	56.00	-15.42	QP
8	3.7725	22.42	12.32	34.74	46.00	-11.26	AVG
9	19.4910	34.97	12.54	47.51	60.00	-12.49	QP
10	19.4910	30.50	12.54	43.04	50.00	-6.96	AVG
11	29.6655	35.51	12.70	48.21	60.00	-11.79	QP
12	29.6655	30.91	12.70	43.61	50.00	-6.39	AVG

Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss
- 4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.

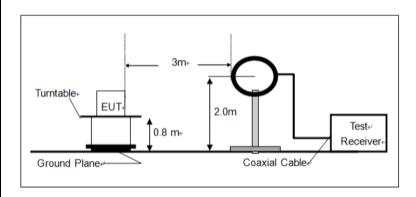


4.2 Radiated Emission measurement

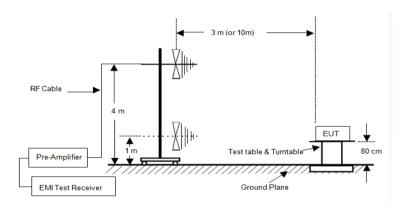
Test Requirement:	FCC Part18.30	FCC Part18.305 (b)						
Test Method:	FCC MP-5							
Test Frequency Range:	9kHz to 1000M	9kHz to 1000MHz						
Test site:	Measurement D	Measurement Distance: 3m						
Receiver setup:	Frequency	Detector	RBW	VBW	Remark			
	9kHz-	Quasi-pea	k 200Hz	300Hz	Quasi-peak Value			
	150kHz							
	150kHz-	Quasi-pea	k 9kHz	10kHz	Quasi-peak Value			
	30MHz							
	30MHz-	Quasi-pea	k 120KHz	300KHz	Quasi-peak Value			
	1GHz							
Limit:	Frequency		Limit (u	V/m)	Remark			
	0.009MHz-1000MHz		15@300m		Quasi-peak Value			

Test setup:

For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30MHz to1GHz



Test Procedure:

Sequence of testing 9 kHz to 30 MHz Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.



--- The EUT was set into operation. Premeasurement: --- The turntable rotates from 0° to 315° using 45° steps. --- The antenna height is 2.0 meter. --- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions Final measurement: --- Identified emissions during the premeasurement the software maximizes by rotating the turntable position (0° to 360°) and by rotating the elevation axes (0° to 360°). --- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector. --- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored Sequence of testing 30 MHz to 1 GHz Setup: --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer. --- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane. --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both. --- Auxiliary equipment and cables were positioned to simulate normal operation conditions --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable. --- The measurement distance is 3 meter. --- The EUT was set into operation. Premeasurement: --- The turntable rotates from 0° to 315° using 45° steps. --- The antenna is polarized vertical and horizontal. --- The antenna height changes from 1 to 4 meter. --- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions. Final measurement: --- The final measurement will be performed with minimum the six highest --- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter --- The final measurement will be done with QP detector with an EMI receiver. --- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored Test Instruments: Refer to section 3.0 for details Refer to section 2.2 for details Test mode: Test environment: Temp.: 24.8 °C Humid.: 57% Press.: 1012mbar DC 12V from adapter with AC 120V/60Hz Test voltage: Test results: **Pass**

■ Measurement data:

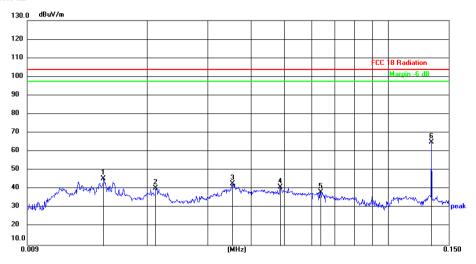
Note:

Emission level dBuV/m for $0.009 \sim 30 \text{MHz} = 20 \log (15) + 40 \log (300/3)$

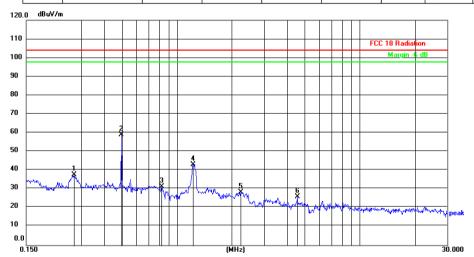


Emission level dBuV/m for 30~1000MHz = 20log (15) + 20log (300/3)

Below 30MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.0149	71.31	-25.88	45.43	103.50	-58.07	peak
2	0.0212	66.26	-25.88	40.38	103.50	-63.12	peak
3	0.0354	68.85	-25.88	42.97	103.50	-60.53	peak
4	0.0488	66.83	-25.88	40.95	103.50	-62.55	peak
5	0.0637	64.38	-25.88	38.50	103.50	-65.00	peak
6	0.1335	90.83	-25.91	64.92	103.50	-38.58	peak



5.61



Limit Frequency Reading Factor Level Margin No. Detector (MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) 0.2741 17.83 19.79 37.62 103.50 -65.88 1 peak 2 0.4964 39.16 19.74 58.90 103.50 -44.60 peak 3 0.8256 11.19 20.08 31.27 103.50 -72.23 peak -60.39 4 1.2217 22.90 20.21 43.11 103.50 peak 5 2.2366 8.47 20.02 28.49 103.50 -75.01 peak

20.22

25.83

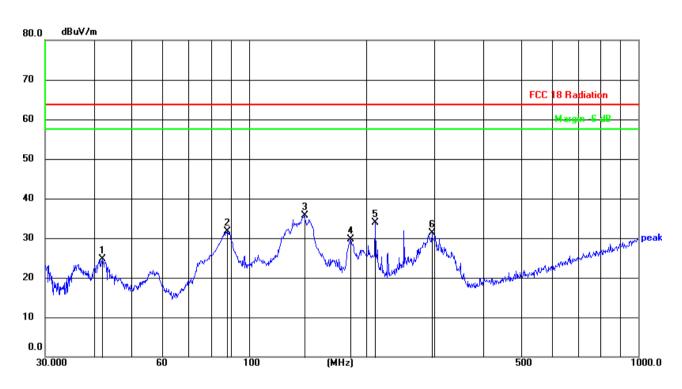
103.50

-77.67

Below 1GHz Horizontal:

6

4.5494



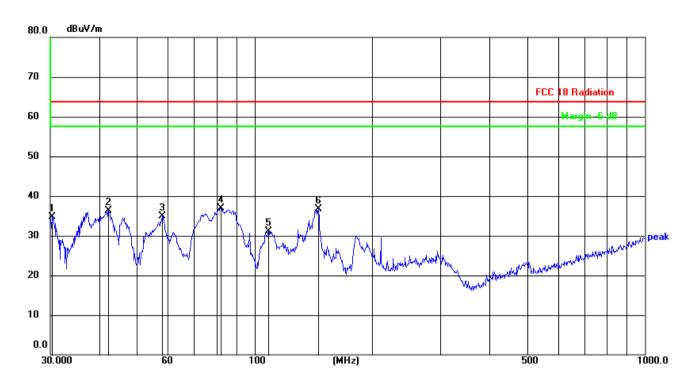
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	42.0066	45.34	-20.73	24.61	63.50	-38.89	QP
2	88.0329	51.98	-20.28	31.70	63.50	-31.80	QP
3	138.8735	54.52	-18.78	35.74	63.50	-27.76	QP
4	182.5592	47.71	-18.04	29.67	63.50	-33.83	QP
5	210.7860	52.49	-18.51	33.98	63.50	-29.52	QP
6	295.1468	49.73	-18.49	31.24	63.50	-32.26	QP

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peak



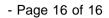
Vertical:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.3172	56.23	-21.51	34.72	63.50	-28.78	QP
2	42.3022	57.11	-20.74	36.37	63.50	-27.13	QP
3	57.9992	55.71	-20.77	34.94	63.50	-28.56	QP
4	82.0705	57.12	-20.24	36.88	63.50	-26.62	QP
5	108.6470	51.01	-19.85	31.16	63.50	-32.34	QP
6	145.8611	55.66	-18.94	36.72	63.50	-26.78	QP

Remark:

- 1. Final Level =Receiver Read level +Correction Factor(Antenna Factor + Cable Loss Preamplifier Factor)
- 2. The emission levels of other frequencies are more than 20 dB below the limit and not show in test report.
- 3. "*", means this data is the too weak instrument of signal is unable to test.





Reference to the appendix I for details.

6 EUT Constructional Details

Reference to the appendix II for details.

-----End-----