

Test Report No.:
GJW2022-6151-H1

EMCTest Report

EUT : **Wireless Charging Battery**
MODEL : **A1614**
BRAND NAME : **anker**
APPLICANT : **Anker Innovations Limited**
Classification Of Test : **N/A**

CVC Testing Technology Co., Ltd.



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Applicant	Name :Anker Innovations Limited		
	Address :Room 1318-19, Hollywood Plaza, 610 Nathan Road,Mongkok, Kowloon, Hongkong		
Manufacturer	Name :Shenzhen Joway Power Supply Co., Ltd.		
	Address : 1-5/F of No.10 & No.11 Workshop of AnTuoShan High-Tech Industrial Park, Sha'Er Community, ShaJing Street, Bao'An District, Shenzhen, Guangdong, P. R. China.		
Equipment Under Test	Name :Wireless Charging Battery		
	Model/Type:A1614		
	Trade mark :anker		
	SerialNO.:N/A		
	Sampe NO.:3-1		
Date of Receipt.	2022.07.14	Date of Testing	2022.07.14-2022.07.22
Test Specification		Test Result	
47 CFR PART 1, Subpart I, Section 1.1310 KDB 680106 D01		PASS	
Evaluation of Test Result	The equipment under test was found to comply with the requirements of the standards applied.		
	Issue Date: 2022.07.22		
Tested by:	Reviewed by:	Approved by:	
			
Xu ZhenFei	Liu YongHai	Chen HuaWen	
Name	Signature	Name	Signature
Other Aspects: NONE.			
Abbreviations:OK, Pass= passed Fail = failed N/A= not applicable EUT= equipment, sample(s) under tested			

This test report relates only to the EUT, and shall not be reproduced except in full, without written approval of CVC.



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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
GJW2022-6151-H1	Original release	2022.07.22



1. CERTIFICATION

PRODUCT	Wireless Charging Battery
BRAND	anker
MODEL	A1614
FCC ID	2AOKB- A1614
ADDITIONAL MODEL	N/A
STANDARDS	47 CFR PART 1, Subpart I, Section 1.1310
	KDB 680106 D01
Remark: - For more detailed features description, please refer to the manufacturer's specifications or the User's Manual. - For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report. - Please refer to the EUT photo document for detailed EUT photo (GJW2022-6151-E).	



2. GENERAL INFORMATION

2.1 DESCRIPTION OF SUPPORTED UNITS

The EUT has been tested with associated equipment below

Description	Manufacturer	Model No.	Serial No.
Wireless charging load	/	15W	/

2.2 List of Test and Measurement Instruments

RF EXPOSURE Test				
Equipment	Model No.	Serial Number	Manufacturer	Cal. Due
Electromagnetic radiation tester	SEM-600	D-1437	STT	2023/4/29

2.3 TEST LOCATION

The tests and measurements refer to this report were performed by EMC testing Lab. of CVC Testing Technology Co., Ltd.

Address: No.3,TiantaiyiRoad,KaitaiAvenue,ScienceCity,Guangzhou,China

Post Code: 510663 Tel: 020-32293888

FAX: 020-32293889 E-mail: office@cvc.org.cn

Test Firm Registration Number: 937273



3. RF EXPOSURE TEST

3.1 TEST SPECIFICATIONS

Test Requirement:	47 CFR PART 1, Subpart I, Section 1.1310 KDB 680106 D01
Measurement Distance:	15cm
Test voltage:	DC 5V from Adapter input AC 110V/60Hz

3.2 LIMIT

Limits of Test Standard 47 CFR PART 1, Subpart I, Section 1.1310

Frequency range(MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100.000	/	/	5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100.000	/	/	1.0	30
F=frequency in MHz *=Plane-wave equivalent power density RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).				

3.3 EUT CONFIGURATION AND ENVIRONMENT DETAIL

Operating Environment:

Temperature:25.0°C Humidity:52% RHAtmospheric Pressure:1015mbar



3.4 TEST RESULTS

RESULTS UNDER Test Standard 47 CFR PART 1, Subpart I, Section 1.1310

Electric Field Emissions-15cm

Test Mode: Wireless charging use iphone for 10% battery				
Test Position	Test Distance (cm)	Probe Measure Result (V/m)	Limit (V/m)	10% Limit(V/m)
Side 1	15	0.401	614	61.4
Side 2	15	0.345	614	61.4
Side 3	15	0.421	614	61.4
Side 4	15	0.923	614	61.4
Top	15	3.443	614	61.4
Bottom	15	1.771	614	61.4

Magnetic Field Emissions-15cm

Test Mode: Wireless charging use iphone for 10% battery				
Test Position	Test Distance (cm)	Probe Measure Result (A/m)	Limit (A/m)	10%Limit(A/m)
Side 1	15	0.033	1.63	0.815
Side 2	15	0.038	1.63	0.815
Side 3	15	0.035	1.63	0.815
Side 4	15	0.036	1.63	0.815
Top	15	0.040	1.63	0.815
Bottom	15	0.039	1.63	0.815

Electric Field Emissions-15cm

Test Mode: Wireless charging use iphone for 50% battery				
Test Position	Test Distance (cm)	Probe Measure Result (V/m)	Limit (V/m)	10% Limit(V/m)
Side 1	15	0.311	614	61.4
Side 2	15	0.311	614	61.4
Side 3	15	0.411	614	61.4
Side 4	15	0.801	614	61.4
Top	15	3.231	614	61.4
Bottom	15	1.772	614	61.4

Magnetic Field Emissions-15cm

Test Mode: Wireless charging use iphone for 50% battery				
Test Position	Test Distance (cm)	Probe Measure Result (A/m)	Limit (A/m)	10%Limit(A/m)
Side 1	15	0.030	1.63	0.815
Side 2	15	0.037	1.63	0.815
Side 3	15	0.033	1.63	0.815
Side 4	15	0.031	1.63	0.815
Top	15	0.039	1.63	0.815
Bottom	15	0.038	1.63	0.815

Note: All modes have been tested and we only record the worst test result in full load mode



Electric Field Emissions-15cm

Test Mode: Wireless charging use iphone for 90% battery				
Test Position	Test Distance (cm)	Probe Measure Result (V/m)	Limit (V/m)	10% Limit(V/m)
Side 1	15	0.299	614	61.4
Side 2	15	0.302	614	61.4
Side 3	15	0.401	614	61.4
Side 4	15	0.833	614	61.4
Top	15	3.122	614	61.4
Bottom	15	1.841	614	61.4

Magnetic Field Emissions-15cm

Test Mode: Wireless charging use iphone for 90% battery				
Test Position	Test Distance (cm)	Probe Measure Result (A/m)	Limit (A/m)	10%Limit(A/m)
Side 1	15	0.031	1.63	0.815
Side 2	15	0.036	1.63	0.815
Side 3	15	0.032	1.63	0.815
Side 4	15	0.033	1.63	0.815
Top	15	0.031	1.63	0.815
Bottom	15	0.035	1.63	0.815

Note: All modes have been tested and we only record the worst test result in full load mode

4. CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

(1) Power transfer frequency is less than 1 MHz ?

Answer: The EUT Power transfer frequency is 111-149KHz.conform.

(2) Output power from each primary coil is less than or equal to 15 watts ?

Answer: The EUT Output power is 15W.conform.

(3) The system may consist of more than one source primary coils, charging one or more clients. If more than one primary coil is present, the coil pairs may be powered on at the same time?

Answer: The transfer system includes only single primary coils.conform.

(4) Client device is placed directly in contact with the transmitter?

Answer: Client device is placed directly in contact with the transmitter, conform

(5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).

Answer: conform

(6) The aggregate H-field strengths anywhere at or beyond 15 cm surrounding the device, and 20 cm away from the surface from all coils that by design can simultaneously transmit, and while those coils are simultaneously energized, are demonstrated to be less than 50% of the applicable MPE limit.

Answer: Conform.Please refer to RF Exposure

5. PHOTOGRAPHS OF TEST SETUP



TEST DISTANCE 15cm



Important

- (1) The test report is valid with the official seal of the laboratory and the signatures of Test engineer, Author and Reviewer simultaneously.
- (2) The test report is invalid if altered.
- (3) Any photocopies or part photocopies in the test report are forbidden without the written permission from the laboratory.
- (4) Objections to the test report must be submitted to the laboratory within 15 days.
- (5) Generally, commission test is responsible for the tested samples only.

Address of the laboratory:

CVC Testing Technology Co., Ltd.

Address: No.3, Tiantaiyi Road, Kaitai Avenue, Science City, Guangzhou, China

Post Code: 510663

Tel: 020-32293888

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