

Camelion Battery Co., Ltd.

TEST REPORT

SCOPE OF WORK

EMC TESTING-SH916WC

REPORT NUMBER

200708178GZU-006

ISSUE DATE

[REVISED DATE]

12 November 2020

г 1

PAGES

9

DOCUMENT CONTROL NUMBER

© 2017 INTERTEK





Room 02, & 101/E201/E301/ E401/E501/E601/E701/E801 of Room 01 1-8/F., No. 7-2. Caipin Road, Science City, GETDD, Guangzhou, Guangdong, China Telephone: +86 20 8213 9688

Facsimile: +86 20 3205 7538 www.intertek.com.cn

Applicant Name & : Camelion Battery Co., Ltd.

Address Unit 705, Cyber Times Tower A, Tian'an Cyber Park, Shenzhen, China.

518041

Manufacturing Site : Cametronics Industrial Co., Ltd.

201, Bldg. 8, Shiguan Industrial Zone, Shangcun Community,

Gongming Street, Guangming District, Shenzhen

Intertek Report No: 200708178GZU-006 FCC ID: 2AQNC-SH916WC

Test standards

47 CFR PART 1, Subpart I, Section 1.1310
KDB 680106 D01 RF Exposure Wireless Charging Apps v03

Sample Description

Product : Jump Starter & Protable Power Bank

Model No. : SH916WC

Electrical Rating : Input: Micro USB: 5Vdc, 2A;

Type-C: 5Vdc, 3A; 9Vdc, 2A; 12Vdc, 1.5A

Output: Type-C: 5Vdc, 3A; 9Vdc, 2A; 12Vdc, 1.5A;

USB-A 1: 5Vdc, 2.4A; USB-A 2: 5Vdc, 2.4A; Wireless charger: 10W

Serial No. Not Labeled
Date Received: 29 May 2020

Date Test : 29 May 2020 to 22 October 2020

Conducted

Prepared and Checked By Approved By:

Jed Guo Helen M

Engineer Team Leader

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

Version: 21 August 2017 Page 2 of 9



CONTENT

TEST RE	PORT	
CONTE	ENT	3
1.0	TEST RESULT SUMMARY	4
2.0	GENERAL DESCRIPTION	5
2.1	PRODUCT DESCRIPTION	5
2.2		5
2.3		
2.4	Special Accessories	5
2.5		
2.6		6
3.0	EMF TEST	7
3.1.9	STANDARD REQUIREMENT	7
	Test Data	
4.0	TEST EQUIPMENT LIST	9



1.0 TEST RESULT SUMMARY

Classification of EUT: Class B

Test Item	Standard	Result
EMF	47 CFR PART 1, Subpart I, Section 1.1310	PASS

Remark:

When determining the test results, measurement uncertainty of tests has been considered.

Version: 21 August 2017 Page 4 of 9 FCC Part 15.225-a



2.0 General Description

2.1 Product Description

Operating Frequency 112-146KHz

Type of Modulation: ASK

Antenna Type Inductive loop coil antenna

Antenna gain: 0 dBi

Power Supply: Internal battery

Power cord: N/A

2.2 Test Facility

Room102/104, No 203, KeZhu Road, Science City, GETDD Guangzhou, China

A2LA Certificate Number 0078.10

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch is accredited by A2LA and Listed in FCC website. FCC accredited test labs may perform both Certification testing under Parts 15 and 18 and Declaration of Conformity testing.

2.3 EUT Exercising Software

N/A

2.4 Special Accessories

N/A

2.5 Equipment Modification

Any modifications installed previous to testing by Camelion Battery Co., Ltd. will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd. Guangzhou Branch.



2.6 Support Equipment List and Description

This product was tested with corresponding support equipment as below:

Support Equipment:

Equipment	Model No.	Rating	Supplier
Mobile phone	IPhone 8		Intertek

Remark: the iphone 8 was one of typical client devices, it's selected such that the EUT was fully exercised at maximum power from its transmitter. It will not be sold together.

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above evaluated respectively

Pretest mode	Description			
Standby Mode	kept transmitting continuously			
Charging Mode	CH: Low	Mobile phone is charging at 1% battery		
	CH: Middle	power, 50% and 99% battery power		
	CH: High	respectively, keep transmitting		
		continuously		

Version: 21 August 2017 Page 6 of 9 FCC Part 15.225-a



3.0 EMF TEST

3.1 Standard Requirement

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.1m normally can be maintained between the user and the device.

(a) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S)(mW/cm²)	Averaging Times E 2 , H 2 or S (minutes)	
0.3-3.0	614	1.63	(100)*	6	
3.0-30	1842/f	4.89/f	(900/f)*	6	
30-300	61.4	0.163	1.0	6	
300-1500			F/300	6	
1500-100000			5	6	

(b) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S)(mW/cm²)	Averaging Times E 2 , H 2 or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100000			1.0	30

Note: f=frequency in MHz; *Plane-wave equivalent power density



3.2 Test Data

Input Voltage: Internal battery Ambient Condition: 24°C, 50%RH

Test distance: 0, 2,4,6,8,10,15,20 cm surrounding the device and above the top surface from all simultaneous transmitting coils, the worst data was tested at Mobile in 1% battery power(the worst case) and shown as below.

H-Filed Strength:

11-1 lieu Stiefigtii.										
Test	Test distance							Limit		
Position								(A/m)		
	0cm	2cm	4cm	6cm	8cm	10cm	15cm	20cm	Background	1.63
Side1	0.476	0.356	0.242	0.204	0.183	0.178	0.177	0.177	0.177	1.63
Sied2	0.193	0.184	0.180	0.178	0.178	0.178	0.177	0.177	0.177	1.63
Side3	0.634	0.338	0.227	0.198	0.178	0.178	0.177	0.177	0.177	1.63
Side4	0.188	0.182	0.180	0.179	0.184	0.178	0.177	0.177	0.177	1.63
Тор	0.290	0.232	0.208	0.184	0.184	0.182	0.177	0.177	0.177	1.63



4.0 Test Equipment List

Equip. No.	Equipment	Model	Manufacturer	Cal. date	Due date
EM007-03	Exposure Level Tester	ELT-400	NARDA	2019/12/11	2020/12/11

Version: 21 August 2017 Page 9 of 9 FCC Part 15.225-a