

TEST REPORT

Applicant Name: ALLIED VANTAGE INTERNATIONAL LIMITED
Address: Unit 1805, 18/F., Stelux House, 698 Prince Edward Road East,
San Po Kong, Kowloon, Hong Kong China
Report Number: 2501R08157E-RF-00
FCC ID: 2BEED-C7011F

Test Standard (s)

47 CFR, Part 1, Subpart I, Section 1.1310; 47 CFR, Part 2, Subpart J, Section 2.1091

Sample Description

Product Type: C7011F Charger
Model No.: C7011F
Multiple Model(s) No.: C7011FA1, C7011FB1, C7011FC1, C7011FD1
Trade Mark: N/A
Date Received: 2025/01/25
Issue Date: 2025/04/01

Test Result:	Pass▲
--------------	-------

▲ In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

Bruce Lin

Bruce Lin
RF Engineer

Approved By:

Nancy Wang

Nancy Wang
RF Supervisor

Note: The information marked * is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.
This report cannot be reproduced except in full, without prior written approval of the Company. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.
This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP or any agency of the U.S. Government.
This report may contain data that are not covered by the NVLAP accreditation and are marked with an asterisk "▼".

Bay Area Compliance Laboratories Corp. (Shenzhen)

5F(B-West), 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China
Tel: +86-755-33320018 Fax: +86-755-33320008 www.baclcorp.com.cn

TABLE OF CONTENTS

DOCUMENT REVISION HISTORY	3
GENERAL INFORMATION.....	4
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	4
OBJECTIVE	4
MEASUREMENT UNCERTAINTY	4
LOCAL SUPPORT EQUIPMENT LIST AND DETAILS	5
TEST FACILITY	5
SUMMARY OF TEST RESULTS	6
TEST EQUIPMENT LIST	7
FCC §2.1091 - MAXIMUM PERMISSIBLE EXPOSURE (MPE)	8
APPLICABLE STANDARD	8
BLOCK DIAGRAM OF TEST SETUP	9
TEST PROCEDURES.....	9
TEST DATA	9
EUT PHOTOGRAPHS	11
TEST SETUP PHOTOGRAPHS	12

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	2501R08157E-RF-00	Original Report	2025/04/01

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	C7011F Charger
Tested Model	C7011F
Multiple Model(s)	C7011FA1,C7011FB1,C7011FC1,C7011FD1
Frequency Range	116.04kHz
Modulation	ASK
Antenna Type	Coil
Input Voltage	DC 12V or DC 5V
Wireless Output Power	15Watts
Sample serial number	2Z7R-1 (Assigned by BACL,Shenzhen)
Sample/EUT Status	Good condition
Adapter Information	N/A
Note: The Multiple models are electrically identical with the test model except for the model name and Sales channels. Please refer to the declaration letter [#] for more detail, which was provided by manufacturer.	

Objective

This test report is in accordance with Part 2, Subpart J Section 2.1091 of the Federal Communications Commission's rules and KDB680106 D01 Wireless Power Transfer v04.

Measurement Uncertainty

Parameter	Uncertainty
Electric Field	1.14dB
Magnetic Field	0.74dB
Temperature	±1°C
Humidity	±1%
Supply voltages	±0.4%

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Local Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
INOI LIMITED	Tablet	T112	Unknown
ALLIED VANTAGE INTERNATIONAL LIMITED	Receive Coil	Unknown	Unknown

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West) ,6F,7F,the 3rd Phase of Wan Li Industrial Building D,Shihua Rd,FuTian Free Trade Zone,Shenzhen,China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database,FCC Registration No. : 715558,the FCC Designation No. : CN5045.

Each test item follows test standards and with no deviation.

SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC §1.1310 & §2.1091	Maximum Permissible Exposure(MPE)	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
SPEAG	Probe	MAGPy-8H3D-E3D	3106	2024/03/04	2025/03/03
SPEAG	Data Acquisition System	MAPGPY-DAS	3089	2024/03/04	2025/03/03

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §2.1091 - MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart §1.1310, 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 of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
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;

According with 680106 D01 Wireless Power Transfer v04 clause 3.2 & 5.2

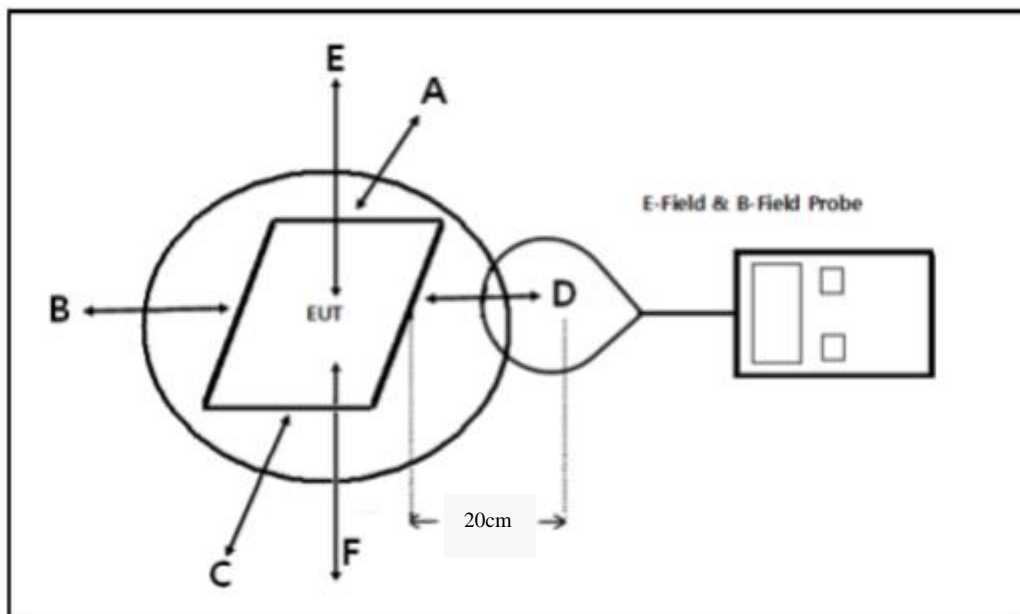
Accordingly, for § 2.1091-Mobile devices, the MPE limits between 100 kHz to 300 kHz are to be considered the same as those at 300 kHz in Table 1 of § 1.1310, that is, 614 V/m and 1.63 A/m, for the electric field and magnetic field, respectively. For § 2.1093-Portable devices below 4 MHz and down to 100 kHz, the MPE limits in § 1.1310 (with the 300 kHz limit applicable all the way down to 100 kHz) can be used for the purpose of equipment authorization in lieu of SAR evaluations.

There might be situations where the WPT RF emissions are limited enough that even operations in a “crowded” environment, where many similar WPT devices are present, do not pose significant EMC and RF exposure concerns. In this scenario, and for devices operating within a one-meter distance from the receiver, as defined above, a manufacturer will not have to submit an “Equipment Compliance Review” KDB, and receive FCC concurrence before proceeding with equipment authorization. This exception to the requirement of submitting the ECR to obtain FCC concurrence only applies when all the following criteria (1) through (6) are met:

- (1) The power transfer frequency is below 1 MHz.
- (2) The output power from each transmitting element (e.g., coil) is less than or equal to 15 watts.
- (3) A client device providing the maximum permitted load is placed in physical contact with the transmitter (i.e., the surfaces of the transmitter and client device enclosures need to be in physical contact).
- (4) Only § 2.1091-Mobile exposure conditions apply (i.e., this provision does not cover § 2.1093-Portable exposure conditions).
- (5) The E-field and H-field strengths, at and beyond 20 cm surrounding the device surface, are demonstrated to be less than 50% of the applicable MPE limit, per KDB 447498, Table 1. These measurements shall be taken along the principal axes of the device, with one axis oriented along the direction of the estimated maximum field strength, and for three points per axis or until a 1/d (inverse distance from the emitter structure) field strength decay is observed. Symmetry considerations may be used for test reduction purposes. The device shall be operated in documented worst-case compliance scenarios (i.e., the ones that lead to the maximum field components), and while all the radiating structures (e.g., coils or antennas) that by design can simultaneously transmit are energized at their nominal maximum power.
- (6) For systems with more than one radiating structure, the conditions specified in (5) must be met when the system is fully loaded (i.e., clients absorbing maximum power available), and with all the radiating structures operating at maximum power at the same time, as per design conditions. If the design allows one or more radiating structures to be powered at a higher level while other radiating

structures are not powered, then those cases must be tested as well. For instance, a device may use three RF coils powered at 5 W, or one coil powered at 15 W: in this case, both scenarios shall be tested.

Block Diagram of Test Setup



Test Procedures

- 1) Perform H-field and E-field measurements for each all sides of the EUT at 20cm, along all the principal axes defined with respect to the orientation of the transmitting element (e.g., coil or antenna).
- 2) The highest emission level was recorded and compared with limit.
- 3) The EUT was measured according to 680106 D01 Wireless Power Transfer v04.

Test Data

Environmental Conditions

Temperature:	24.9°C
Relative Humidity:	44 %
ATM Pressure:	101.7 kPa

The testing was performed by Rainbow Zhu on 2025-03-01.

Test mode: Wireless charging (Maximum output power)

Note: The wireless charging functions are the same output power whether it is charging alone or charging with the tablet sleeve. Therefore, we only tested the scenario with the tablet sleeve.

H-Field Strength

Test Frequency (kHz)	Position A (A/m)	Position B (A/m)	Position C (A/m)	Position D (A/m)	Position E (A/m)	Position F (A/m)	50% Limit (A/m)	Limit (A/m)
116.04	0.01	0.00615	0.02	0.02	0.01	0.04	0.815	1.63

E-Field Strength

Test Frequency (kHz)	Position A (V/m)	Position B (V/m)	Position C (V/m)	Position D (V/m)	Position E (V/m)	Position F (V/m)	50% Limit (V/m)	Limit (V/m)
116.04	0.96	0.47	0.66	0.73	0.88	1.77	307	614

Note: Test with 20cm distance from the center of the probe(s) to the edge of the device.

- (1) The power transfer frequency is below 1 MHz.

The operation frequency is 116.04kHz.

- (2) The output power from each transmitting element (e.g.,coil) is less than or equal to 15 watts.

The maximum output power is 15 watts.

- (3) A client device providing the maximum permitted load is placed in physical contact with the transmitter (i.e.,the surfaces of the transmitter and client device enclosures need to be in physical contact)

The load is physical contact with the EUT.

- (4) Only § 2.1091-Mobile exposure conditions apply (i.e.,this provision does not cover § 2.1093-Portable exposure conditions).

The EUT is used in the mobile exposure condition.

- (5) The E-field and H-field strengths,at and beyond 20 cm surrounding the device surface,are demonstrated to be less than 50% of the applicable MPE limit,per KDB 447498,Table 1. These measurements shall be taken along the principal axes of the device,with one axis oriented along the direction of the estimated maximum field strength,and for three points per axis or until a 1/d (inverse distance from the emitter structure) field strength decay is observed. Symmetry considerations may be used for test reduction purposes. The device shall be operated in documented worst-case compliance scenarios (i.e.,the ones that lead to the maximum field components),and while all the radiating structures (e.g.,coils or antennas) that by design can simultaneously transmit are energized at their nominal maximum power.

The E-field and H-field strengths are less than 50% of the limit.

- (6) For systems with more than one radiating structure,the conditions specified in (5) must be met when the system is fully loaded (i.e.,clients absorbing maximum power available),and with all the radiating structures operating at maximum power at the same time,as per design conditions. If the design allows one or more radiating structures to be powered at a higher level while other radiating structures are not powered,then those cases must be tested as well. For instance,a device may use three RF coils powered at 5 W,or one coil powered at 15 W: in this case,both scenarios shall be tested.

The EUT has only one coil.

EUT PHOTOGRAPHS

Please refer to the attachment 2502P43079E-RF-EXP and 2502P43079E-RF-INP.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2501R08157E-RF Test Setup photo.

******* END OF REPORT *******