

TEST REPORT

Report No.: 8233EU012001W2

Applicant: QUEST USA CORP

Address: 495 Flatbush Ave, Brooklyn, NY 11225, USA

Product Name: MAGNETIC WIRELESS CHARGER

Model No.: IJ10357-PS

Trademark: IJOY

FCC ID: 2AJQ7-CHARGER

Test Standard(s): 47 CFR Part 1 Subpart I Section 1.1310

47 CFR Part 2, Subpart J, Section 2.1091

Date of Receipt: Sep. 20, 2024

Test Date: Sep. 20, 2024 – Oct. 28, 2024

Date of Issue: Nov. 14, 2024

ISSUED BY:

Prepared by:

SHENZHEN EU TESTING LABORATORY LIMITED

Reviewed and Approved by:

Mikey Zhu/ Engineer

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Sally Zhang/ Manager



Page 2 of 12 Report No.: 8233EU012001W2

Revision Record

Report Version	Issued Date	Description	Status
V0	Nov. 14, 2024	Original	Valid





Page 3 of 12

Table of Contents

1	COVE	ER PAGE
2	GENE	ERAL INFORMATION
		APPLICANT INFORMATION
3	TEST	SUMMARY
	3.2 3.3	TEST STANDARD
4	TEST	CONFIGURATION
	4.2	TEST ENVIRONMENT
5	RF EX	XPOSURE EVALUATION
	5.2 5.1	TEST REQUIREMENT

TRF No.: FCC MPE_WPT (A02)

Report No.: 8233EU012001W2



Page 4 of 12 Report No.: 8233EU012001W2

2 General Information

2.1 Applicant Information

Applicant	QUEST USA CORP
Address	495 Flatbush Ave, Brooklyn, NY 11225, USA

2.2 Manufacturer Information

Manufacturer	QUEST USA CORP China Office
Address	601 Bld1, Cloud Park, 233 Bulong Road, Longgang, Shenzhen, China 518112

2.3 Factory Information

Factory	QUEST USA CORP China Office
Address	601 Bld1, Cloud Park, 233 Bulong Road, Longgang, Shenzhen, China 518112

2.4 General Description of E.U.T.

Product Name	MAGNETIC WIRELESS CHARGER	
Model No. Under Test	IJ10357-PS	
List Model No.	N/A	
Description of Model differentiation	N/A	
Rating(s)	Input: 9V===2A Wireless Charger Output: 15W	
Product Type	☑ Mobile☐ Portable☐ Fix Location	
Test Sample No.	-1/2(Normal Sample), -2/2(Engineering Sample)	
Hardware Version	N/A	
Software Version	N/A	
Remark	1) The above information are declared by the applicant, EU-LAB is not responsible for the information accuracy provided by the applicant. 2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.	



Page 5 of 12 Report No.: 8233EU012001W2

2.5 Technical Information of E.U.T.

Network and Wireless Connectivity	Wireless Power Transfer (WPT)
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The requirement for the following technical information of the EUT was tested in this report:

Technology	WPT
Operating Frequency	110.1-205KHz
Modulation Type	FSK
Antenna Type	Coil Antenna
Antenna Gain(Peak)	0 dBi
Remark	The above information are declared by the applicant, EU-LAB is not responsible for the information accuracy provided by the applicant.





Page 6 of 12 Report No.: 8233EU012001W2

3 Test Summary

3.1 Test Standard

The tests were performed according to following standards:

No.	Identity	Document Title
1	47 CFR Part 1 Subpart I Section 1.1310	Radio frequency radiation exposure limits.
2	47 CFR Part 2, Subpart J, Section 2.1091	Radiofrequency radiation exposure evaluation: mobile devices
3	KDB 680106 D01v04	RF exposure consideration for low power consumer wireless power transfer applications.

Remark:

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product maybe which result in lowering the emission/immunity should be checked to ensure compliance has been maintained.

3.2 Test Verdict

No.	Description	FCC Part No.	Verdict	Remark
1	RF Exposure Evaluation	FCC 1.1310 FCC 2.1091 KDB 680106 D01 Wireless Power Transfer v04	Pass	

3.3 Test Laboratory

Test Laboratory	Shenzhen EU Testing Laboratory Limited	
Address	101, Building B1, Fuqiao Fourth Area, Qiaotou Community, Fuhai Subdistrict, Baoan District, Shenzhen, Guangdong, China	
Designation Number	CN1368	
Test Firm Registration Number	952583	



Page 7 of 12 Report No.: 8233EU012001W2

4 Test Configuration

4.1 Test Environment

During the measurement, the normal environmental conditions were within the listed ranges:

Relative Humidity	30% to 60%	
Atmospheric Pressure	neric Pressure 86 kPa to 106 kPa	
Temperature	NT (Normal Temperature)	+15℃ to +35℃
Working Voltage of the EUT	NV (Normal Voltage)	120 VAC, 60Hz

4.2 Test Equipment

Equipment	Manufacturer	Model No	Serial No	Cal Date	Cal Due Date
Electric and Magnetic Field Probe - Analyzer	Narda	EHP-200A	EE-405	2024/02/13	2025/02/14

4.3 Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was prescanning tested base 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 bellow was evaluated respectively.

No.	Description	Remark
TM1	Wireless Output (15W for Phone)	
TM2	Standby	

Note:

4.4 Measurement Uncertainty

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Test Item	Measurement Uncertainty		
Magnetic field measurements(3kHz~10MHz)	±14.6%		
Electric field measurements(3kHz~10MHz)	±17.3%		

^{1.} All the conditions have been tested. It is found that TM1 is the worst mode, and the data in the report only reflects the worst mode.



Page 8 of 12 Report No.: 8233EU012001W2

5 RF Exposure Evaluation

5.1 Test Requirement

§1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in §1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of FCC part 2.1093 of this chapter.

Table 1 to §1.1310(e)(1) - Limits for Maximum Permissible Exposure (MPE)

Table 1 to 3 11 to 10(0)(1) Limite 101 maximum 1 01 modulo 2xpoodir (iii 2)						
Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	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/f²)	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/f²)	30		
30-300	27.5	0.073	0.2	30		
300-1500	/	/	f/1500	30		
1500-100,000	/	/	1.0	30		

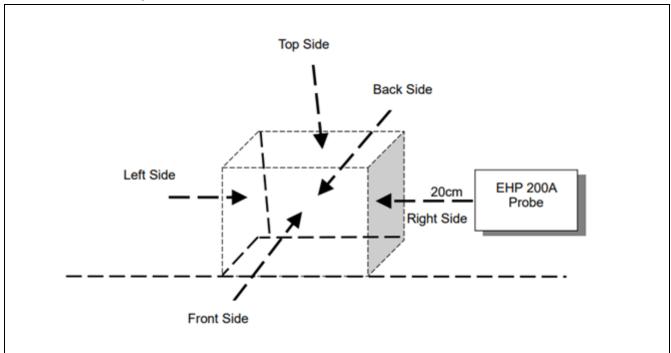
F=frequency in MHz

^{*=}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).

Page 9 of 12 Report No.: 8233EU012001W2

5.2 Test Setup



Note: Measurements should be made from all sides and the top of the primary/client pair, with the 20cm measured from the center of the probe(s) to the edge of the device.

- 1) The RF exposure test was performed in anechoic chamber.
- 2) The measurement probe was placed at test distance (20cm) which is between the edge of the charger and the geometric center of probe.
- 3) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E, F) were completed.
- 4) The EUT was measured according to the dictates of KDB 680106 D01 v04.



Page 10 of 12 Report No.: 8233EU012001W2

5.1 Evaluation Result

Test Condition: Test Mode 1 operating with client device (1% battery status of client device)

	E-field (V/m)			H-field (A/m)		
Test Position	Test Position Measurement		Max. Percentage (%)	Measurement Limit		Max. Percentage (%)
Тор	3.9024			0.2319		
Bottom	5.2797	614 0.84%		0.0384	1.63	14.10%
Front	2.3316			0.2221		
Rear	2.9139	014	0.04%	0.1737	1.03	14.1076
Left	1.9084			0.2675		
Right	2.2202			0.0568		

Test Condition: Test Mode 1 operating with client device (50% battery status of client device)

	E-field (V/m)			H-field (A/m)		
Test Position	Measurement	Limit	Max. Percentage (%)	Measurement Limit		Max. Percentage (%)
Тор	6.1547			0.1856		
Bottom	4.7957			0.0309		
Front	0.9238	614	0.900/	0.1788	1.62	12 040/
Rear	1.7868	614	0.80%	0.1382	1.63	13.84%
Left	4.0009			0.2140		
Right	4.1777			0.0453		

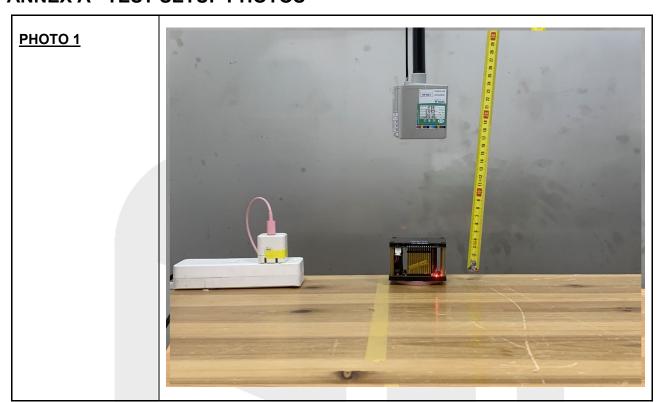
Test Condition: Test Mode 1 operating with client device (99% battery status of client device)

	E-field (V/m)			H-field (A/m)		
Test Position	Sition Max Percentage		Measurement	Limit	Max. Percentage (%)	
Тор	5.1976			0.1883		
Bottom	4.7930			0.1657		
Front	3.2689	614	0.82%	0.2732	1.63	20.60%
Rear	5.0342	014	0.02%	0.2854	1.03	20.00%
Left	3.7754			0.0057		
Right	5.0837			0.1564		



Page 11 of 12 Report No.: 8233EU012001W2

ANNEX A TEST SETUP PHOTOS





Page 12 of 12 Report No.: 8233EU012001W2

STATEMENT

- 1. The laboratory guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
- 2. The report without China inspection body and laboratory Mandatory Approval (CMA) mark has no effect of proving to the society.
- 3. For the report with CNAS mark or A2LA mark, the items marked with "☆" are not within the accredited scope.
- 4. This report is invalid if it is altered, without the signature of the testing and approval personnel, or without the "inspection and testing dedicated stamp" or test report stamp.
- 5. The test data and results are only valid for the tested samples provided by the customer.
- 6. This report shall not be partially reproduced without the written permission of the laboratory.
- 7. Any objection shall be raised to the laboratory within 30 days after receiving the report.

--- End of Report ---

QUEST USA CORP

495 Flatbush Ave, Brooklyn, NY 11225, USA

Date: November 14, 2024

FCC ID: 2AJQ7-CHARGER

Model Number: IJ10357-PS

To: Federal Communication Commission
Authorization and Evaluation Division 7435 Oakland Mills Road
Columbia, MD 21048

To Whom It May Concern,

We, **QUEST USA CORP** hereby declare that our product (**MAGNETIC WIRELESS CHARGER**) Model Number: **IJ10357-PS** meet item 5.2 of KDB 680106v03r01 as follow:

CHARGER) Model Number: IJ10357-PS meet in		of KDB 680106V03r01 as follow;
Requirements of KDB 680106 D01	Yes / No	Description
Power transfer frequency is less than 1 MHz	Yes	The device operates in the frequency range 110.1 KHz - 205 KHz
The output power from each transmitting element (e.g., coil) is less than or equal to 15 watts.	Yes	The device contains three transmitter coils, the maximum output power of the primary coil is 15W.
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)	Yes	Client device is placed directly in contact with the transmitter.
Only § 2.1091- Mobile exposure conditions apply (i.e., this provision does not cover § 2.1093-Portable exposure conditions).	Yes	Mobile exposure conditions only
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	Yes	The EUT H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

QUEST USA CORP

495 Flatbush Ave, Brooklyn, NY 11225, USA

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.		
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		Only one radiating atrusture
design conditions. If the design allows one or	Yes	Only one radiating structure
more radiating structures to be powered at a	res	and tested at maximum
higher level while other radiating structures		Output Power
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		
		-

Please contact me if you have any question.

Sincerely,

(Signed)

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