



# RF Exposure Evaluation Report

**Product** : Wireless car charger

Trade mark : ROMOSS

Model/Type reference : AW15C-10

Serial Number : N/A

Report Number : EED32R80600802

**FCC ID** : 2A6QM-AW15C-10

Date of Issue : Aug. 13, 2025

Test Standards : 47 CFR Part 1.1307

47 CFR Part 1.1310

47 CFR Part 2.1091(mobile devices)
47 CFR Part 2.1093(portable devices)

KDB 447498 D04 Interim General RF Exposure Guidance v01

KDB 680106 D01 Wireless Power Transfer v04

Test result : PASS

Prepared for:

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## **General Information**

### 2.1 Client Information

Applicant:	Shenzhen Romoss Technology Co., Ltd.
Address of Applicant:	Room1601, BLOCK B, Building 7, Shenzhen International Innovation Valley, Dashi 1st Road Xili community, Xili Street, Nanshan, Shenzhen, Guangdong, P.R.China
Manufacturer:	Jiangmen Romoss Technology Co., Ltd.
Address of Manufacturer:	Room 01-2, First floor, Building 8, No. 80, Renhe Road, Tangxia Town, Pengjiang District, Jiangmen City
Factory:	Jiangmen Romoss Technology Co., Ltd.
Address of Factory:	Room 01-2, First floor, Building 8, No. 80, Renhe Road, Tangxia Town, Pengjiang District, Jiangmen City

## 2.2 General Description of EUT

Product Name:	Wireless car charger	(6,1)	(6,1)
Model No.(EUT):	ROMOSS		
Trade Mark:	AW15C-10		

## 2.3 Product Specification subjective to this standard

111kHz-200kHz			
127kHz			
ASK	<b>1</b> 00		C*>
Default	(24)		
N/A			
Coil antenna			
Desktop applications device			
TYPE-C: DC 5V, 3A / 9V,3A Wireless output: 5W/7.5W/10W/15W		(4)	
Apr. 23, 2025			
Apr. 25, 2025 to May 20, 2025			
	127kHz  ASK  Default  N/A  Coil antenna  Desktop applications device  TYPE-C: DC 5V, 3A / 9V,3A  Wireless output: 5W/7.5W/10W/15W  Apr. 23, 2025	127kHz  ASK  Default  N/A  Coil antenna  Desktop applications device  TYPE-C: DC 5V, 3A / 9V,3A  Wireless output: 5W/7.5W/10W/15W  Apr. 23, 2025	127kHz  ASK  Default  N/A  Coil antenna  Desktop applications device  TYPE-C: DC 5V, 3A / 9V,3A  Wireless output: 5W/7.5W/10W/15W  Apr. 23, 2025











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### 2.4 Test Environment and Mode

Operating Environment	:		
Temperature:	22~25.0 °C		
Humidity:	50~55 % RH	(6,)	6
Atmospheric Pressure:	1010mbar		
Test mode:Transmitting	mode		
Mode a:	Wireless charging mode(Nu	ull load)(Connect to adapter)	2
Mode b:	Wireless charging mode(33	3.3% load)(Connect to adapte	er)
Mode c:	Wireless charging mode(66	5.7% load)(Connect to adapte	er)
Mode d:	Wireless charging mode(Ha	alf load)(Connect to adapter)	

#### Note:

### 2.5 Description of Support Units

The EUT has been tested with associated equipment below.

1) support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
AC adapter	MI	MDY-11-EF	FCC ID and DOC	CTI
Intelligent wireless charging full	YBZ	/	FCC ID and DOC	СТІ
function test module	(0,)		(0,)	(6,

### 2.6 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted. FCC Designation No.: CN1164

### 2.7 Deviation from Standards

None.

### 2.8 Abnormalities from Standard Conditions

None.

## 2.9 Other Information Requested by the Customer

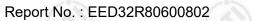
None.



<sup>1.</sup> Wireless output: 5W, 7.5W, 10W, 15W (maximum wireless output 15W during charging);

<sup>2.</sup>Through Pre-scan, when EUT power by DC 12.0V was the worst case, only the worst case data was recorded in the report.





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## 3 Equipment List

	RF test system							
Equipment	Manufacturer	Mode No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)			
3M Chamber & Accessory Equipment	TDK	SAC-3	6	06-08-2023	06-07-2026			
Electric and Magnetic field analyzer	Narda	EHP-200AC	180ZX11020	09-25-2024	09-24-2025			
PC-1	HP	ZHAN200		7:0				
EHP200-TS	Narda	EP-601	EP-601	07-22-2024	07-21-2025			
Test software	Narda S.T.S./PMM	EHP200-TS						
Steel Ruler	Wynn's	300mm						







### 4 SAR Evaluation

### 4.1 RF Exposure Compliance Requirement

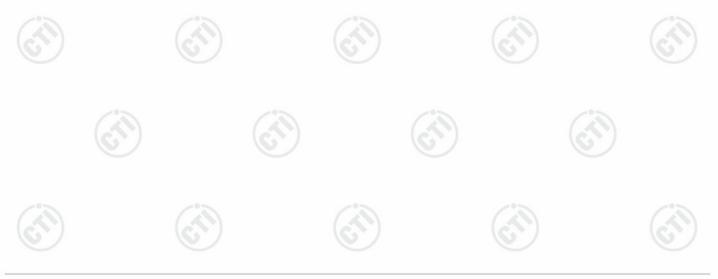
#### **4.1.1 Limits**

§ 1.1310 The criteria listed in table 1 shall be used to evaluate the environmental 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 § 2.1093 of this chapter.

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

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
	(i) Limits for Oc	cupational/Controlled Exposi	ure	
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	<6
30-300	61.4	0.163	1.0	<6
300-1,500			f/300	<6
1,500-100,000			5	<6
-	(ii) Limits for Genera	al Population/Uncontrolled Ex	posure	
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	<30
30-300	27.5	0.073	0.2	<30
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

f = frequency in MHz. \* = Plane-wave equivalent power density.

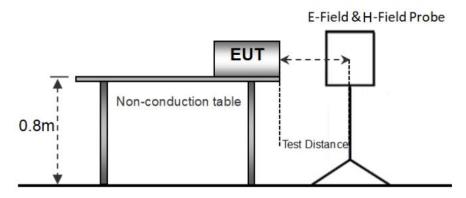


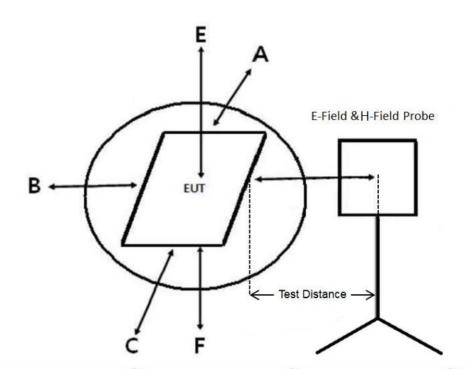




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### 4.1.2 Test Procedure





- a. The measurement probe was placed at test distance(15 cm for A,B,C,D,F and 20 cm for E) which is between the edge of the charger and the geometric center of probe.
- b. The highest emission level was recorded at the measurement points(A, B, C, D, E, F).
- c. The EUT was measured according to the distance of KDB 680106 D01 Wireless Power Transfer v04.













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### 4.1.3 Equipment approval considerations

The EUT does comply with section 5.2 of KDB 680106 D01 Wireless Power Transfer v04.

- (1) The power transfer frequency is below 1 MHz.
- --Yes, the device operate in the frequency range 111kHz-140kHz.
- (2) The output power from each transmitting element (e.g., coil) is less than or equal to 15 watts.
- --Yes, the maximum output power for each primary coil is 15W.
- (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)
- --Yes, client device is placed directly in contact with the transmitter.
- (4) Only § 2.1091-Mobile exposure conditions apply (i.e., this provision does not cover § 2.1093-Portable exposure conditions).
- --Yes.
- (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.
- --Yes, the EUT H-field strengths levels are less than 50% of MPE 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.
- -- This product has only one radiating structure.







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### 4.1.4 RF Exposure Evaluation

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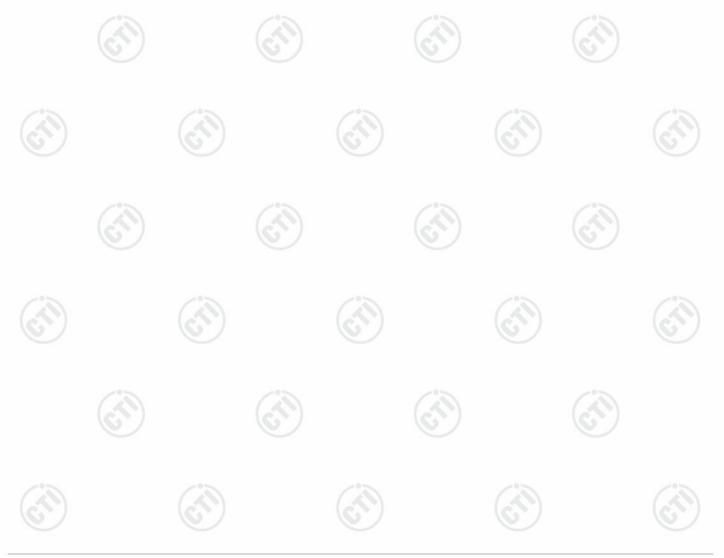
### 4.1.4.1 Field strengths Evaluation

1.According to April 27,2022 TCB Workshop, for portable devices that do not physically attach to phone, desktop WPT testing guidance from FCC KDB 680106 D01 Wireless Power Transfer v04 is applied.

2.The equipment under test was placed on a wooden desk inside of shield room. The isotropic field probe was used to measure the field strength for 6 EUT surfaces. The detailed setup photo please refer to Appendix A.

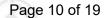
3.Per FCC KDB 680106 D01 Wireless Power Transfer v04 and April 27,2022 TCB Workshop, For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 15 cm. E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm measured from the center of the probe(s) to the edge of the device. Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m. And aggregate H-field strengths and E-field strengths from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

4.According to the KDB 680106 D01 Wireless Power Transfer v04, we tested at 20cm, 22cm and 24cm distance, and only the worst case of 20cm test data was recorded in the report.





Test data:



			Mode 5W	1			
Test position	Test dista nce (cm)	Electric Field Str ength (V/m)	50% Limit (V/m)	Magnetic Field St rength (A/m)	50%Li mit (A/m)	Result	
Front	15	0.5972	307	0.2007	0.815	Pass	
Тор	15	0.5010	307	0.1679	0.815	Pass	
Left	15	0.4347	307	0.1950	0.815	Pass	
Right	15	0.5424	307	0.1790	0.815	Pass	
Rear	15	0.3168	307	0.1818	0.815	Pass	
Bottom*	15	0.4630	307	0.1832	0.815	Pass	
*This p	*This product is belongs to desktop applications device,therefore it doesn't apply.						

		P	Mode 7.5V	V		
Test position	Test dista nce (cm)	Electric Field Str ength (V/m)	50% Limit (V/m)	Magnetic Field St rength (A/m)	50%Li mit (A/m)	Result
Front	15	0.5707	307	0.1881	0.815	Pass
Тор	15	0.3255	307	0.1879	0.815	Pass
Left	15	0.4414	307	0.1750	0.815	Pass
Right	15	0.3384	307	0.1780	0.815	Pass
Rear	15	0.3078	307	0.1897	0.815	Pass
Bottom*	15	0, 4724	307	0.1870	0.815	Pass
*This pr	oduct is	belongs to desktop	application	ns device,therefore i	t doesn't a	apply.

Mode 10W						
Test position	Test dista nce (cm)	Electric Field Str ength (V/m)	50% Limit (V/m)	Magnetic Field St rength (A/m)	50%Li mit (A/m)	Result
Front	15	0.7045	307	0.1780	0.815	Pass
Тор	15	0.3001	307	0.1858	0.815	Pass
Left	15	0.4625	307	0.2067	0.815	Pass
Right	15	0.3072	307	0.1826	0.815	Pass
Rear	15	0, 3340	307	0.1769	0.815	Pass
Bottom*	15	0.5859	307	0.1802	0.815	Pass
*TL:			- (4 a. a. 1) 4) -			I

<sup>\*</sup>This product is belongs to desktop applications device, therefore it doesn't apply.



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Mode 15W									
Test position	Test dista nce (cm)	Electric Field Str ength (V/m)	50% Limit (V/m)	Magnetic Field St rength (A/m)	50%Li mit (A/m)	Result			
Front	15	1.0124	307	0.1928	0.815	Pass			
Тор	15	0.3384	307	0.1837	0.815	Pass			
Left	15	0.3255	307	0.1661	0.815	Pass			
Right	15	0.3175	307	0.1727	0.815	Pass			
Rear	15	0.3078	307	0.1733	0.815	Pass			
Bottom*	15	0.3300	307	0.1716	0.815	Pass			
*This p	roduct is	belongs to desktop	application	ns device,therefore i	t doesn't	apply.			

Mode 空载										
Test dista nce (cm)	Electric Field Str ength (V/m)	50% Limit (V/m)	Magnetic Field St rength (A/m)	50%Li mit (A/m)	Result					
15	0.3624	307	0.2057	0.815	Pass					
15	0.3086	307	0.1428	0.815	Pass					
15	0.3175	307	0.1564	0.815	Pass					
15	0.2973	307	0.2007	0.815	Pass					
15	0.3070	307	0.1716	0.815	Pass					
15	0.3173	307	0.1733	0.815	Pass					
	dista nce (cm) 15 15 15 15	Test dista nce (cm)  15  0.3624  15  0.3086  15  0.3175  15  0.2973  15  0.3070	Test dista nce (cm)         Electric Field Str ength (V/m)         50% Limit (V/m)           15         0.3624         307           15         0.3086         307           15         0.3175         307           15         0.2973         307           15         0.3070         307	Test dista nce (cm)         Electric Field Str ength (V/m)         50% Limit (V/m)         Magnetic Field St rength (A/m)           15         0.3624         307         0.2057           15         0.3086         307         0.1428           15         0.3175         307         0.1564           15         0.2973         307         0.2007           15         0.3070         307         0.1716	Test dista nce (cm)         Electric Field Str ength (V/m)         50% Limit (V/m)         Magnetic Field St rength (A/m)         50%Li mit (A/m)           15         0.3624         307         0.2057         0.815           15         0.3086         307         0.1428         0.815           15         0.3175         307         0.1564         0.815           15         0.2973         307         0.2007         0.815           15         0.3070         307         0.1716         0.815					

### **Conclusions:**

From the measurement data obtained, the tested sample was considered to have complied with the requirements for the relevant §1.1310 Radio frequency radiation exposure limits and KDB 680106 D01 Wireless Power Transfer v04.











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### **PHOTOGRAPHS OF EUT Constructional Details**

Refer to Report No. EED32R80051701 for EUT external and internal photos.









































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Statement

- 2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
- 4. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule stated in ILAC-G8:09/2019/CNAS-GL015:2022;
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