

1. RF Exposure Test Report

1.1 General Information

Client Information

Applicant:	Shenzhen Inlong Photoelectricity Co.,Ltd
Address of applicant:	Four floor, G building, No. 204 art, Stronglndustria l Zone, Golf Road, Guanlan Street, Shenzhen City,Guangdong Province, China
Manufacturer:	Shenzhen Inlong Photoelectricity Co.,Ltd
Address of manufacturer:	Four floor, G building, No. 204 art, Stronglndustria l Zone, Golf Road, Guanlan Street, Shenzhen City,Guangdong Province, China

Description of EUT

Product Name:	Wireless charging
Trade Name:	INLONG
Model No.:	INL-08
FCC ID:	2AR7H-INL-08
IC:	N/A
Rated Voltage:	Input: DC 5V
Frequency Range:	110-205kHz
Modulation Type:	ASK
Antenna Type:	Coil Antenna
Rated Voltage:	DC 5V (Wireless output)
Rated Current:	1.6A (Wireless output)
Rated Power:	7.5W (Wireless output)

1.2 Standard Applicable

According to § 1.1310 system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

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 Exposure				
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
300-1,500			f/300	6
1,500-100,000			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
300-1,500			f/1500	30
1,500-100,000			1.0	30

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

1.3 Test Conditions

Test Mode	Description	Remark
TM1	Full Load	With resistor
TM2	Full Charge	With mobile phone
Measurement Distance:	20 cm above the top surface, 15 cm surrounding the device	
Test Standard:	KDB 680106 D01 V03	

1.4 Test Result

The following test data shall to demonstrate RF exposure compliance.

Test Mode: TM1 (with resistor)

Electric Field Emissions			
Test Position	Measure Value (V/m)	Limit(V/m)	50% Limit (V/m)
Top	1.95	614	307.0
Bottom	1.84	614	307.0
Side 1	2.26	614	307.0
Side 2	2.25	614	307.0
Side 3	2.01	614	307.0
Side 4	2.26	614	307.0
Magnetic Field Emissions			
Test Position	Measure Value (A/m)	Limit(A/m)	50% Limit (A/m)
Top	0.0065	1.63	0.815
Bottom	0.0058	1.63	0.815
Side 1	0.0052	1.63	0.815
Side 2	0.0050	1.63	0.815
Side 3	0.0051	1.63	0.815
Side 4	0.0053	1.63	0.815

Test Mode: TM2 (with mobile phone)

Electric Field Emissions			
Test Position	Measure Value (V/m)	Limit(V/m)	50% Limit (V/m)
Top	1.99	614	307.0
Bottom	1.87	614	307.0
Side 1	1.92	614	307.0
Side 2	2.53	614	307.0
Side 3	2.41	614	307.0
Side 4	2.12	614	307.0
Magnetic Field Emissions			
Test Position	Measure Value (A/m)	Limit(A/m)	50% Limit (A/m)
Top	0.0053	1.63	0.815
Bottom	0.0056	1.63	0.815
Side 1	0.0055	1.63	0.815
Side 2	0.0054	1.63	0.815
Side 3	0.0057	1.63	0.815
Side 4	0.0059	1.63	0.815