



RF EXPOSURE REPORT

FOR

15W Wireless Car Charger Transmitter

Model : WCS-001500XB

Trade Mark: BEAR TA

Issued to

Solar Global Co.,Ltd.

**9F.-3, No.111, Zhongyang S. Rd., Sanchong Dist., New Taipei City 241, Taiwan
(R.O.C.)**

Issued by

WH Technology Corp.

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1. GENERAL INFORMATION

Applicant : Solar Global Co.,Ltd.

Address : 9F.-3, No.111, Zhongyang S. Rd., Sanchong Dist., New Taipei City 241, Taiwan (R.O.C.)

Manufacturer : Subtle Electronic CO.,Ltd.

Address : 3F.,NO.168, Liancheng Rd., Zhonghe Dist., New Taipei City 235, Taiwan

EUT : 15W Wireless Car Charger Transmitter

Model Name : WCS-001500XB

Model Differences : N/A

Standard : FCC Part 1 (Section 1.1307(b), 1.1310)

Receipt Date : 07/07/2017

Final Test Date : 07/28/2017

Tested by:

Bell Wei/ Engineer

Reviewed by:

Mike Lee / Manager



1.1 TEST MODE:

125kHz

1.2 DESCRIPTION OF THE TESTED SAMPLES

EUT Name	: 15W Wireless Car Charger Transmitter
Model Number	:: WCS-001500XB
FCCID Number	2AK8E0015TX1001
Receipt Date	: 07/07/2017
Output Power	: DC 5V / 2A
Operate Frequency	: 115kHz~205kHz
Antenna Type	: Coil Antenna



2. LIST OF TEST AND MEASUREMENT INSTRUMENTS

Equipment	Model	Manufacture	Last Cal.	Next Cal.
Exposure Level Tester	ELT-400	NARDA	Aug. 07, 2016	Aug. 06, 2017
Magnetic field probe 100cm ²	B-Field Probe 100 cm2	NARDA	Aug. 01, 2016	Jul. 31, 2017

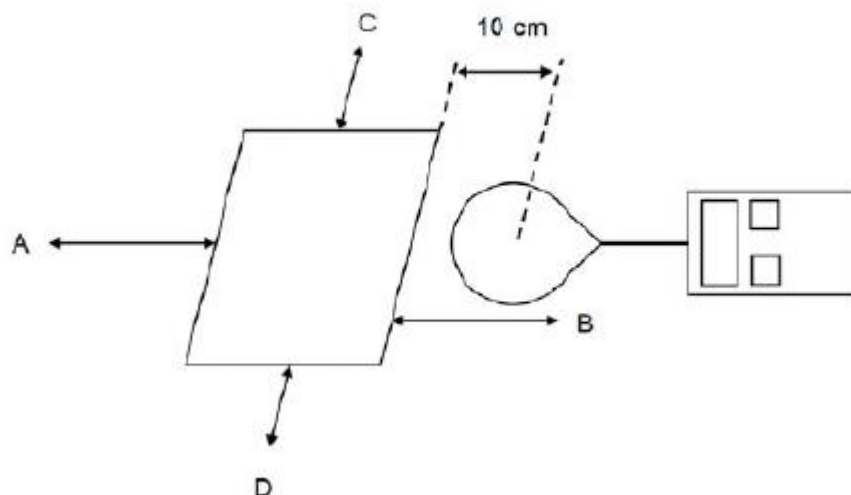


3. METHOD OF MEASUREMENT

3.1 APPLICABLE STANDARD

According to §1.1307(b)(1), 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. According to §1.1310 and §2.1093 RF exposure is calculated. According KDB680106 D01v02: RF Exposure Wireless Charging Apps v02.

3.2 TEST SETUP





3.3 TEST PROCEDURE:

- a) The RF exposure test was performed on 360 degree turn table in anechoic chamber.
- b) The measurement probe was placed at test distance (10cm) which is between the edge of the charger and the geometric centre of probe.
- c) The turn table was rotated 360 degree to search of highest strength.
- d) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed.
- e) The EUT were measured according to the dictates of KDB 680106D01v02.

3.4 EQUIPMENT APPROVAL CONSIDERATIONS:

The EUT does comply with item 5.2 of KDB 680106 D01v02

- a) Power transfer frequency is less than 1MHz

Yes; the device operate in the frequency range from 110 KHz to 205 KHz

- b) Output power from each primary coil is less than 5 watts

Yes; the maximum output power of the primary coil is $0.25\text{mW} < 5\text{W}$.

- c) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that able to detect and allow coupling only between individual pair of coils.

Yes; the transfer system includes only single primary and secondary coils.

- d) Client device is inserted in or placed directly in contact with the transmitter.

Yes; Client device is placed directly in contact with the transmitter.

- e) The maximum coupling surface area of the transmit (charging) device:

Yes; The EUT coupling surface area was 70.56 cm^2 (Dimensions: $8.4\text{ cm} \times 8.4\text{ cm}$) ($L \times W$)

- f) Aggregate leakage fields at 10cm surrounding the device from all simultaneous transmitting coils are demonstrated to be less than 30% of the MPE limit.

Yes; The EUT field strength levels are 30% x MPE limit.



4. TEST DATA

E and H field Strength

E-Filed Strength at 10 cm from the edges surrounding the EUT (V/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F	Reference Limit (V/m)	Limits Test (V/m)
0.110-0.205	0.42	0.53	0.47	0.48	0.50	0.60	184.2	614

H-Filed Strength at 10 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F	Reference Limit (V/m)	Limits Test (V/m)
0.110-0.205	0.11	0.10	0.11	0.09	0.11	0.08	0.489	1.63