

RF EXPOSURE REPORT

Test Report

Equipment Under Test	CHARGER ASSY-WIRELESS PS
Model Name	B2H58-AP000/010
Applicant	WISEPOWER CO., LTD.
FCC ID	OKG-B2H58
IC	11412A-B2H58
Manufacturer	WISEPOWER CO., LTD.
Date of Test(s)	2013. 09. 25
Date of Issue	2013. 09. 26

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

Issue to	Issue by
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Revision history

Revision	Date of issue	Description	Revised by
--	Sep 26, 2013	Initial	--

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1. Attestation of test results

1.1. Details of applicant

Applicant : WISEPOWER CO., LTD.
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 Contact Person : Kyungmuk Lee
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1.2. Summary of test results

The EUT has been tested according to the following specifications;

FCC part Section in	Description	Result
1.1307(b), 1.1310	Radio frequency radiation exposure limits	C

The sample was tested according to the following specification:

FCC Public Notice KDB 680106

TEST SITE REGISTRATION NUMBER:

FCC(67068)

※ Abbreviation

C Complied
 N/A Not applicable
 F Fail

Approval Signatories

Test and Report Completed by :	Report Approval by :
	
Raymond Kim Test Engineer MOVON CORPORATION	Issac Jin Technical Manager MOVON CORPORATION

2. EUT Description

Kind of product	CHARGER ASSY-WIRELESS PS
Model Name	B2H58-AP000/010
Serial Number	N/A
Power supply	DC 12 V
Frequency range	110 kHz ~205 kHz
TEST SITE REGISTRATION NUMBER	FCC(67068) , IC(6432B-1)

2.1. Declarations by the manufacturer

None

2.2. Details of modification

Test mode

This device has been tested in the worst-case mode of charging mode as below conditions:

Test Mode	Support Equipment	Charging Current Condition
TM1	Client Device	300 mA
TM2	Client Device	600 mA
TM3	Client Device	950 mA
TM4	Mobile Phone	< 1% battery status
TM5	Mobile Phone	50% battery status

3. Measurement equipment

Equipment	Manufacturer	Model	Serial number	Calibration Interval	Calibration due.
Exposure Level Tester	Narda	N-0181	2304/04	1 year	2013-05-11
B-Field Probe	Narda	M-0626	100089	1 year	2013-05-12

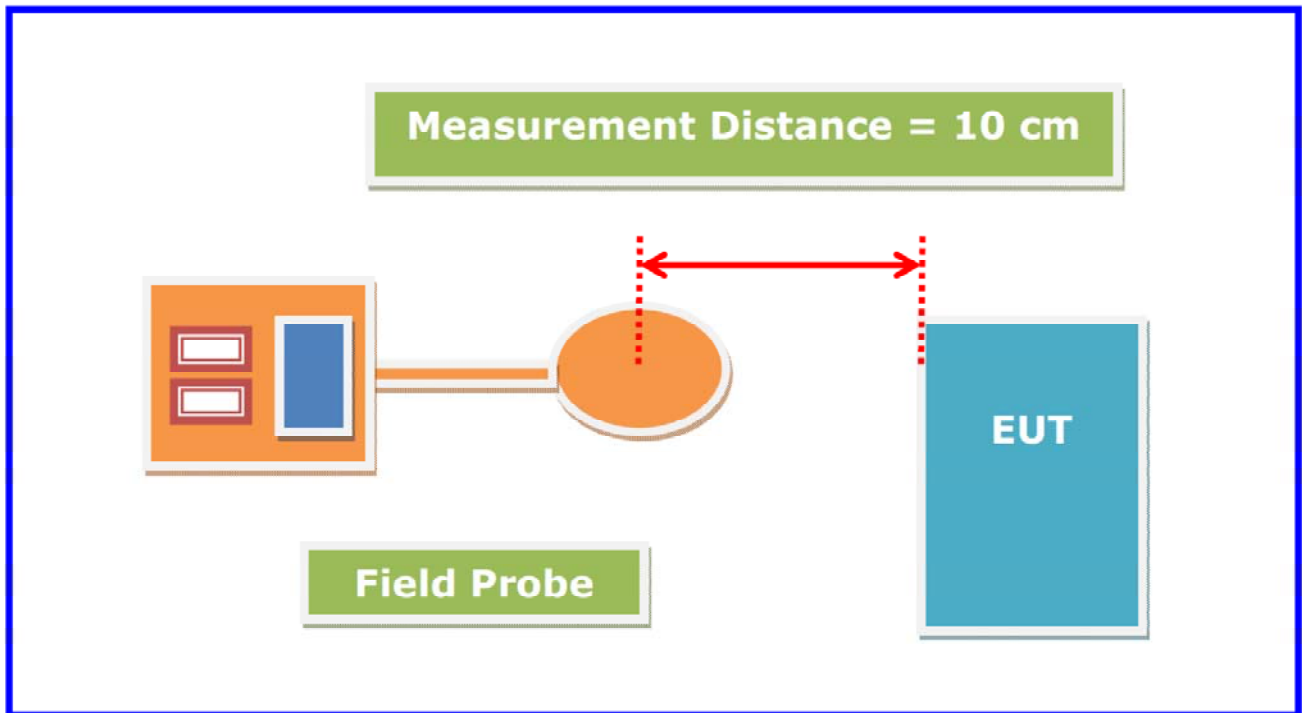
※ Remark;

Support equipment

Description	Manufacturer	Model	Serial number
Handphone	Samsung	SHV-E300S	R33D40DR3TM

4. Radio frequency radiation exposure limits

4.1. Test setup



4.2. Limit

§ 1.1310 The criteria listed in table 1 shall be used to evaluate the environmental impact of human exposure to radiofrequency(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.

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) Occupational/controlled exposure limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when a person is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure. The phrase fully aware in the context of applying these exposure limits means that an exposed person has received written and/or verbal information fully explaining the potential for RF exposure resulting from his or her employment. With the exception of transient persons, this phrase also means that an exposed person has received appropriate training regarding work practices relating to controlling or mitigating his or her exposure. Such training is not required for transient persons, but they must receive written and/or verbal information and notification (for example, using signs) concerning their exposure potential and appropriate means available to mitigate their exposure. The phrase exercise control means that an exposed person is allowed to and knows how to reduce or avoid exposure by administrative or engineering controls and work practices, such as use of personal protective equipment or time averaging of exposure.

(2) General population/uncontrolled exposure limits apply in situations in which the general public may be exposed, or in which persons who are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

4.4. Test result

Ambient temperature: 26°C

Relative humidity: 55 % R.H.

4.4.1. Test data

Operation mode E-Field

Test Mode	Separation Distance(m)	E-Field (V/m)	E -Field Limit(V/m)
TM1	0.1	205	614
TM2	0.1	93	614
TM3	0.1	92	614
TM4	0.1	211	614
TM5	0.1	213	614

Operation mode H-Field

Test Mode	Separation Distance(m)	H-Field (A/m)	H -Field Limit(A/m)
TM1	0.1	0.54	1.63
TM2	0.1	0.49	1.63
TM3	0.1	0.49	1.63
TM4	0.1	0.56	1.63
TM5	0.1	0.57	1.63

*Remark

B-field(Magnetic flux density) (T:tesla(Vs/m²))

ex)

$B = 0.713\mu\text{T}$

$H = B/\mu = 0.713 \times 10^{-6} / 4\pi \times 10^{-7} = 0.567387372 \dots$

$S = 377 \times H^2 = 377 \times 0.567^2 = 121(\text{W/m}^2)$

$E = S/H = 121/0.567 = 213$