

EUT Specification

FCC ID: 2BBEH-PW0062

Characteristics	Description
Product Name	Wireless Charger
Model number	PW0062
Power Supply	DC 5V/DC 9V/DC 12V
Operating Frequency Range	110-205KHz for phone charging 325.8KHz for Watch charging 110-205KHz for Earphone charging
Modulation Technique	FSK for phone charging ASK for Watch charging ASK for Earphone charging
Antenna Type	Coil Antenna
Device category	□Portable (<20cm separation) □Mobile (>20cm separation) □Others
Exposure classification	☐Occupational/Controlled exposure (S = 5mW/cm2) ☐General Population/Uncontrolled exposure (S=1mW/cm2)
Antenna diversity	□Single antenna □Multiple antennas □Tx diversity □Rx diversity □Tx/Rx diversity
Evaluation applied	

Applicable Standard:

FCC Part 1(1.1310) ,Part 2(2.1091) and KDB 680106 D01 RF Exposure Wireless Charging Apps v03

Applicable Requirement:

Three different categories of transmitters are defined by the FCC in OET



Bulletin 65.

These categories are fixed installation, mobile, and portable and are defined as follows:

Fixed Installations: fixed location means that the device, including its antenna, is physically secured at a permanent location and is not able to be easily moved to another location. Additionally, distance to humans from the antenna is maintained to at least 2 meters.

Mobile Devices: a mobile device is defined as a transmitting device designed to be used in other than fixed locations and to be generally used in such a way that a separation distance of at least 20 centimeters is normally maintained between the transmitter's radiating structures and the body of the user or nearby persons. Transmitters designed to be used by consumers or workers that can be easily re-located, such as a wireless modem operating in a laptop computer, are considered mobile devices if they meet the 20 centimeter separation requirement. The FCC rules for evaluating mobile devices for RF compliance are found in 47 CFR §2.1091.

Portable Devices: a portable device is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user. Portable device requirements are found in Section 2.1093 of the FCC's Rules (47 CFR§2.1093).

The FCC also categorizes the use of the device as based upon the user's awareness and ability to exercise control over his or her exposure. The two categories defined are Occupational/ Controlled Exposure and General Population/Uncontrolled Exposure.

These two categories are defined as follows:

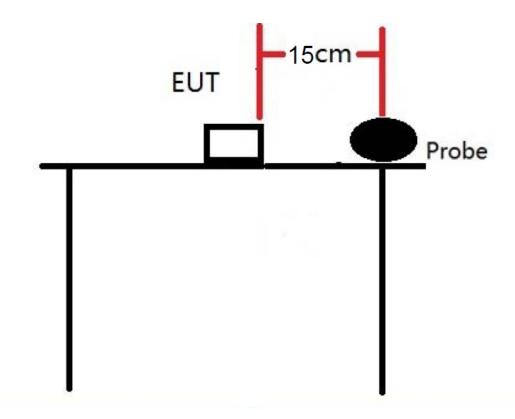
Occupational/controlled exposure limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations 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.



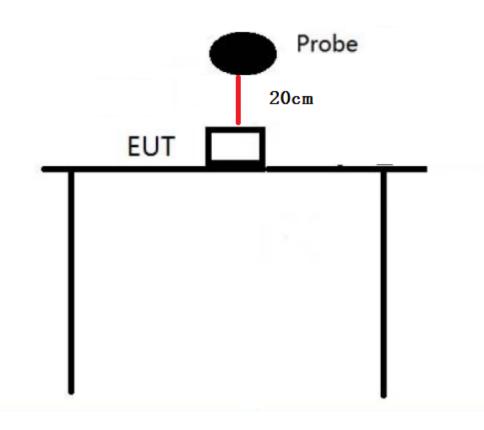
General population/uncontrolled exposure limits apply in situations in which the general public may be exposed, or in which persons who are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure. Licensees and applicants are responsible for compliance with both the occupational/controlled exposure limits and the general population/uncontrolled exposure limits as they apply to transmitters under their jurisdiction. Licensees and applicants should be aware that the occupational/controlled exposure limits apply especially in situations where workers may have access to areas in very close proximity to antennas and access to the general public may be restricted.

In lieu of evaluation with the general population/uncontrolled exposure limits, amateur licensees authorized under part 97 of this chapter and members of his or her immediate household may be evaluated with respect to the occupational/controlled exposure limits in this section, provided appropriate training and information has been provided to the amateur licensee and members of his/her household. Other nearby persons who are not members of the amateur licensee's household must be evaluated with respect to the general population/uncontrolled exposure limits.

Test Setup Block







Test Procedure

- 1. Connect the EUT and equipment as above diagram of test configuration.
- 2.EUT was placed on a table, and the measure probe was placed at a measurement distance of 15cm from the EUT to the center of the probe.
- 3. Power on the measuring probe, the EUT was set at the maximum field strength emission state.
- 4.The EUT was put in different directions (Left, Right, Front, Rear, Top and Bottom) toward to the measure probe. The distance from the top of the EUT to the probe is 20CM, and the distance from other directions is 15cm. Measure the value of field strength.
- 5. Record the worst data of the different directions.

Measuring Device And Test Equipment

Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
	E&H-Field					
\checkmark	Probe(9kHz-30M	Narda	EHP-200A	180ZX11012	Oct. 28, 2023	1 Year
	Hz)					



Description of Support Device

iPhone : Manufacturer: Apple Inc.

M/N: A2176 S/N: N/A

Adapter : Model number:580245A087

Input: AC 100-240V, 50/60Hz

Manufacturer: SAMSUNG

SAMSUNG S9 : M/N:Samsung Galaxy S9

S/N: N/A

: Manufacturer: Xiaomi

Xiaomi 9 M/N:Xiaomi 9

S/N: N/A

: Manufacturer: momax

Earphone M/N:X5

S/N: N/A

: Manufacturer: Apple Inc.

Apple Watch M/N: A1859

S/N: N/A

Limits for Maximum Permissible Exposure(MPE)

Electric Field	Magnetic Field	Power	Average					
Strength(V/m)	Strength(A/m)	Density(mW/cm ²)	Time					
(A) Limits for Occupational/Control Exposures								
614	1.63	(100)*	6					
1842/f	4.89/f	(900/f)*	6					
61.4	0.163	1.0	6					
		F/300	6					
		5	6					
Limits for Gene	ral Population/Un	control Exposures						
614	1.63	(100)*	30					
824/f	2.19/f	(180/f)*	30					
27.5	0.073	0.2	30					
		F/1500	30					
		1	30					
	Strength(V/m) (A) Limits for C 614 1842/f 61.4 Limits for Gene 614 824/f 27.5	Strength(V/m) Strength(A/m) (A) Limits for Occupational/Confect 614 1.63 1842/f 4.89/f 61.4 0.163 Limits for General Population/Un 614 1.63 824/f 2.19/f 27.5 0.073	Strength(V/m) Strength(A/m) Density(mW/cm²) (A) Limits for Occupational/Control Exposures 614 1.63 (100)* 1842/f 4.89/f (900/f)* 61.4 0.163 1.0 F/300 5 Limits for General Population/Uncontrol Exposures 614 1.63 (100)* 824/f 2.19/f (180/f)* 27.5 0.073 0.2 F/1500 1					

Note: f denotes for frequency in MHz.

Measurement Result

We tested three modes (10W load+3W load+2.5W load, 7.5W load+3W load+2.5W load,5W load+3W load+2.5W load) for EUT. test data see the following.

^{*} denotes for plane-wave equivalent power density.



Magnetic Field (H-Field) strength at 15cm from the boundaries of EUT, and 20cm from the top.

Test Mode: Wireless Charging 10W+3W+2.5W						
		Measuring Distance(cm)	H- Field(A /m)	50% H- Field(A/ m)	Limit(A /m)	50% Limit(A/m)
Measurement Point 1	Front	15	0.0228	0.0114		
Measurement Point 2	Back	15	0.0226	0.0113		
Measurement Point 3	Left	15	0.0224	0.0112	4.00	0.045
Measurement Point 4	Right	15	0.0226	0.0113	1.63	0.815
Measurement Point 5	Bottom	15	0.0225	0.0112		
Measurement Point 6	Тор	20	0.0236	0.0118		

Test Mode: Wireless Charging 10W+3W+2.5W						
		Measuring Distance(cm)	E- Field(V/ m)	50% E- Field(V/ m)	Limit(V/ m)	50% Limit(V/m)
Measurement Point 1	Front	15	5.9707	2.9854		
Measurement Point 2	Back	15	5.9688	2.9844		
Measurement Point 3	Left	15	5.9674	2.9837	614	307
Measurement Point 4	Right	15	5.9692	2.9846	014	307
Measurement Point 5	Bottom	15	5.9668	2.9834		
Measurement Point 6	Тор	20	5.9986	2.9993		

Test Mode: Wireless Charging 7.5W+3W+2.5W							
		Measuring Distance(cm)	H- Field(A/ m)	50% H- Field(A/ m)	Limit(A /m)	50% Limit(A/m)	
Measurement Point 1	Front	15	0.0198	0.0099			
Measurement Point 2	Back	15	0.0194	0.0097			
Measurement Point 3	Left	15	0.0195	0.0097	4.00	0.045	
Measurement Point 4	Right	15	0.0192	0.0096	1.63	0.815	
Measurement Point 5	Bottom	15	0.0194	0.0097			
Measurement Point 6	Тор	20	0.0204	0.0102			



Test Mode: Wireless Charging 7.5W+3W+2.5W						
		Measuring Distance(cm)	E- Field(V/ m)	50% E- Field(V/ m)	Limit(V/ m)	50% Limit(V/m)
Measurement Point 1	Front	15	5.9406	2.9703		
Measurement Point 2	Back	15	5.9482	2.9741		
Measurement Point 3	Left	15	5.9392	2.9696	614	207
Measurement Point 4	Right	15	5.9442	2.9721	614	307
Measurement Point 5	Bottom	15	5.9466	2.9733		
Measurement Point 6	Тор	20	5.9648	2.9824		

Test Mode: Wireless Charging 5W+3W+2.5W							
		Measuring Distance(cm	H- Field(A/ m)	50% H- Field(A/ m)	Limit(A /m)	50% Limit(A/m)	
Measurement Point 1	Front	15	0.0188	0.0094			
Measurement Point 2	Back	15	0.0186	0.0093			
Measurement Point 3	Left	15	0.0182	0.0091	4.00	0.045	
Measurement Point 4	Right	15	0.0184	0.0092	1.63	0.815	
Measurement Point 5	Bottom	15	0.0182	0.0091			
Measurement Point 6	Тор	20	0.0194	0.0097			

Test Mode: Wireless Charging 5W+3W+2.5W						
		Measuring Distance(cm)	E- Field(V/ m)	50% E- Field(V/ m)	Limit(V/ m)	50% Limit(V/m)
Measurement Point 1	Front	15	5.9286	2.9643		
Measurement Point 2	Back	15	5.9276	2.9638		
Measurement Point 3	Left	15	5.9274	2.9637	614	207
Measurement Point 4	Right	15	5.9266	2.9633	614	307
Measurement Point 5	Bottom	15	5.9306	2.9653		
Measurement Point 6	Тор	20	5.9456	2.9728		



PHOTOGRAPHS OFTEST SETUP



Signature

Shawn Wen

General Manager Date: 2023-07-20