

EUT Specification

FCC ID: 2A7Z4-FHS

Characteristics	Description
Product Name	5000mAh Magnetic Wireless Power Bank
Model number	FHS
Series Model	FHSB0, FHSL0, FHSP0, FHSW0
Power Supply	DC 5V / DC 9V / DC 12V / Battery 3.7V
Operating Frequency Range	110-205kHz
Modulation Technique	ASK
Antenna Type	Coil Antenna
Device category	 ☑Portable (<20cm separation) ☑Mobile (>20cm separation) ☑Others
Antenna diversity	 Single antenna Multiple antennas Tx diversity Rx diversity Tx/Rx diversity
Evaluation applied	⊠MPE Evaluation □SAR Evaluation

Applicable Standard:

FCC Part 1(1.1310) , Part 2(2.1093) 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:

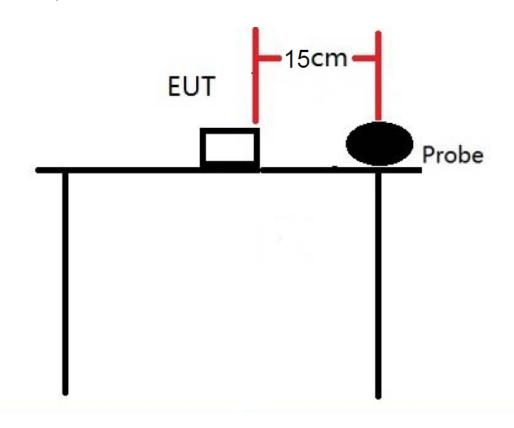
Occupational/controlled exposure limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations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



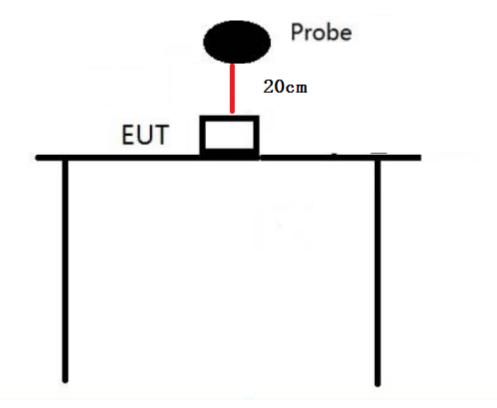
Licensees and applicants are responsible for compliance with both the occupational/controlled exposure limits and the general population/uncontrolled exposure limits as they apply to transmitters under their jurisdiction. Licensees and applicants should be aware that the occupational/controlled exposure 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



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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.

IV	leasuring 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)											

Measuring Device And Test Equipment

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Description of Support De	vio	ce		
phone	: Manufacturer: Apple Inc			
		M/N: A2404		
		S/N: N/A		
phone	:	Manufacturer: Xiaomi		
		M/N: Xiaomi 9		
		S/N: N/A		
phone	:	Manufacturer: SAMSUNG		
		M/N: Samsung Galaxy S9		
		S/N: N/A		
Adapter	:	Model number:580245A087		
		Input: AC 100-240V, 50/60Hz		

Limits for Maximum Permissible Exposure(MPE)

Frequency	Electric Field	Magnetic Field	Power	Average
Range(MHz)	Strength(V/m)	Strength(A/m)	Density(mW/cm ²)	Time
	(A) Limits for C	ccupational/Cont	trol Exposures	
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100000			5	6
(B)	Limits for Gene	ral Population/Un	control Exposures	
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500	300-1500		F/1500	30
1500-100000			1	30

Note: f denotes for frequency in MHz.

 $\star\,\,$ denotes for plane-wave equivalent power density.



Measurement Result

We tested three modes (15W load, 7.5W load,5W load) for EUT, the worst test data see the following.

Magnetic Field (H-Field) strength at 0cm from the boundaries of EUT.

Test Mode: Wireless Charging 15W									
		Measuring Distance(cm) /m)		50% H- Field(A/ m)	Limit(A /m)	50% Limit(A/m)			
Measurement Point 1	Front	0	0.9406	0.4703					
Measurement Point 2	Back	0	0.8436	0.4218					
Measurement Point 3	Left	0	0.8792	0.4396	1.60	0.015			
Measurement Point 4 Right		0	0.8822	0.4411	1.63	0.815			
Measurement Point 5	ment Point 5 Bottom		0.7816	0.3908					
Measurement Point 6	Тор	0	0.9844	0.4922					

Note: The results of the data in the above table are calculated and evaluated.

Test Mode: Wireless Charging 15W									
		Measuring Distance(cm)	E- Field(V/ m)	50% E- Field(V/ m)	Limit(V/ m)	50% Limit(V/m)			
Measurement Point 1	Front	0	1.1434	0.5717					
Measurement Point 2	Back	0	1.1348	0.5674					
Measurement Point 3	Left	0	1.1482	0.5741	614	207			
Measurement Point 4 Right		0	1.1634	0.5817	614	307			
Measurement Point 5	Bottom	0	1.1412	0.5706					
Measurement Point 6	Тор	0	1.6768	0.8384					

Note: The results of the data in the above table are calculated and evaluated.



Magnetic Field (H-Field) strength at 2cm from the boundaries of EUT.

Test Mode: Wireless Charging 15W									
	Distance(cm)		H- Field(A /m)	50% H- Field(A/ m)	Limit(A /m)	50% Limit(A/m)			
Measurement Point 1	Front	2	0.9342	0.4671					
Measurement Point 2	Back	2	0.8084	0.4042					
Measurement Point 3	Left	2	0.8706	0.4353	1.00	0.045			
Measurement Point 4 Right		2	0.8798	0.4399	1.63	0.815			
Measurement Point 5	Bottom	2	0.7793	0.3897					
Measurement Point 6	Тор	2	0.9782	0.4891					

Note: The results of the data in the above table are calculated and evaluated.

Test Mode: Wireless Charging 15W									
	Measuring Distance(cm) Measuring Field M)			50% E- Field(V/ m)	Limit(V/ m)	50% Limit(V/m)			
Measurement Point 1	Front	2	1.1286	0.5643					
Measurement Point 2	Back	2	1.1206	0.5603					
Measurement Point 3	Left	2	1.1276	0.5638	614	307			
Measurement Point 4 Right		2	1.1282	0.5641	014	307			
Measurement Point 5	ement Point 5 Bottom		1.1066	0.5533					
Measurement Point 6	Тор	2	1.5116	0.7558					

Note: The results of the data in the above table are calculated and evaluated.



Magnetic Field ('H_Field'	stronath	at /cm	from the	houndaries	of ELIT
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Test Mode: Wireless Charging 15W									
		Measuring Distance(cm)	H- Field(A /m)	50% H- Limit(A Field(A/ /m) m)		50% Limit(A/m)			
Measurement Point 1	Front	4	0.9306	0.4653					
Measurement Point 2	Back	4	0.8068	0.4034					
Measurement Point 3	Left	4	0.8682	0.4341	1.00	0.045			
Measurement Point 4 Right		4	0.8784	0.4392	1.63	0.815			
Measurement Point 5	Bottom	4	0.7776	0.3888					
Measurement Point 6	Тор	4	0.9753	0.4877					

Test Mode: Wireless Charging 15W									
		Measuring Distance(cm)	E- Field(V/ m)	50% E- Field(V/ m)	Limit(V/ m)	50% Limit(V/m)			
Measurement Point 1	Front	4	1.1228	0.5614					
Measurement Point 2	Back	4	1.1193	0.5597					
Measurement Point 3	Left	4	1.1212	0.5606	614	307			
Measurement Point 4 Right		4	1.1206	0.5603	614	307			
Measurement Point 5	surement Point 5 Bottom		1.0845	0.5423					
Measurement Point 6	Тор	4	1.4964	0.7482					



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Test Mode: Wireless Charging 15W								
		Measuring Distance(cm)	H- Field(A /m)	50% H- Field(A/ m)	Limit(A /m)	50% Limit(A/m)		
Measurement Point 1	Front	6	0.9272	0.4636				
Measurement Point 2	Back	6	0.8033	0.4017				
Measurement Point 3	Left	6	0.8674	0.4337	1.60	0.015		
Measurement Point 4	Right	6	0.8763	0.4382	1.63	0.815		
Measurement Point 5	Bottom	6	0.7748	0.3874				
Measurement Point 6	Тор	6	0.9736	0.4868				

Test Mode: Wireless Charging 15W								
		Measuring Distance(cm)	E- Field(V/ m)	50% E- Field(V/ m)	Limit(V/ m)	50% Limit(V/m)		
Measurement Point 1	Front	6	1.1184	0.5592				
Measurement Point 2	Back	6	1.1168	0.5584				
Measurement Point 3	Left	6	1.1193	0.5597	614	307		
Measurement Point 4	Right	6	1.1108	0.5554	614	307		
Measurement Point 5	Bottom	6	1.0763	0.5382				
Measurement Point 6	Тор	6	1.4884	0.7442				



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Test Mode: Wireless Charging 15W								
		Measuring Distance(cm)	H- Field(A /m)	50% H- Field(A/ m)	Limit(A /m)	50% Limit(A/m)		
Measurement Point 1	Front	8	0.9264	0.4632				
Measurement Point 2	Back	8	0.8024	0.4012				
Measurement Point 3	Left	8	0.8652	0.4326	1.60	0.045		
Measurement Point 4	Right	8	0.8735	0.4368	1.63	0.815		
Measurement Point 5	Bottom	8	0.7724	0.3862				
Measurement Point 6	Тор	8	0.9722	0.4861				

Test Mode: Wireless Charging 15W								
		Measuring Distance(cm)	E- Field(V/ m)	50% E- Field(V/ m)	Limit(V/ m)	50% Limit(V/m)		
Measurement Point 1	Front	8	1.1176	0.5588				
Measurement Point 2	Back	8	1.1143	0.5572				
Measurement Point 3	Left	8	1.1178	0.5589	614	307		
Measurement Point 4	Right	8	1.1076	0.5538	014	307		
Measurement Point 5	Bottom	8	1.0662	0.5331				
Measurement Point 6	Тор	8	1.4326	0.7163				



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Magnetic Field (etropath at	10 cm from	the hound	ariae of ELIT
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Test Mode: Wireless Charging 15W								
		Measuring Distance(cm)	H- Field(A /m)	50% H- Field(A/ m)	Limit(A /m)	50% Limit(A/m)		
Measurement Point 1	Front	10	0.9192	0.4596				
Measurement Point 2	Back	10	0.7988	0.3994				
Measurement Point 3	Left	10	0.8642	0.4321	1.60	0.015		
Measurement Point 4	Right	10	0.8726	0.4363	1.63	0.815		
Measurement Point 5	Bottom	10	0.7668	0.3834				
Measurement Point 6	Тор	10	0.9676	0.4838				

Test Mode: Wireless Charging 15W								
		Measuring Distance(cm)	E- Field(V/ m)	50% E- Field(V/ m)	Limit(V/ m)	50% Limit(V/m)		
Measurement Point 1	Front	10	1.1112	0.5556				
Measurement Point 2	Back	10	1.1088	0.5544				
Measurement Point 3	Left	10	1.1172	0.5586	614	307		
Measurement Point 4	Right	10	1.1045	0.5523	014	307		
Measurement Point 5	Bottom	10	1.0556	0.5278				
Measurement Point 6	Тор	10	1.4233	0.7117				



Test Mode: Wireless Charging 15W								
		Measuring Distance(cm)	H- Field(A /m)	50% H- Field(A/ m)	Limit(A /m)	50% Limit(A/m)		
Measurement Point 1	Front	12	0.9178	0.4589				
Measurement Point 2	Back	12	0.7976	0.3988				
Measurement Point 3	Left	12	0.8558	0.4279	1.62	0.015		
Measurement Point 4	Right	12	0.8694	0.4347	1.63	0.815		
Measurement Point 5	Bottom	12	0.7692	0.3846	-			
Measurement Point 6	Тор	12	0.9648	0.4824				

Magnetic Field (H-Field) strength at 12cm from the boundaries of EUT.

Test Mode: Wireless Charging 15W								
		Measuring Distance(cm)	E- Field(V/ m)	50% E- Field(V/ m)	Limit(V/ m)	50% Limit(V/m)		
Measurement Point 1	Front	12	1.1083	0.5542				
Measurement Point 2	Back	12	1.1074	0.5537				
Measurement Point 3	Left	12	1.1164	0.5582	614	207		
Measurement Point 4	Right	12	1.1022	0.5511	614	307		
Measurement Point 5	Bottom	12	1.0448	0.5224	-			
Measurement Point 6	Тор	12	1.3924	0.6962				



Magnetic Field	(H_Fiald)	etronath at 1	1/cm from	the bound	arias of ELIT
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Test Mode: Wireless Charging 15W								
		Measuring Distance(cm)	H- Field(A /m)	50% H- Field(A/ m)	Limit(A /m)	50% Limit(A/m)		
Measurement Point 1	Front	14	0.9164	0.4582				
Measurement Point 2	Back	14	0.7964	0.3982				
Measurement Point 3	Left	14	0.8492	0.4246	1.00	0.045		
Measurement Point 4	Right	14	0.8672	0.4336	1.63	0.815		
Measurement Point 5	Bottom	14	0.7686	0.3843	-			
Measurement Point 6	Тор	14	0.9652	0.4826				

Test Mode: Wireless Charging 15W							
		Measuring Distance(cm)	E- Field(V/ m)	50% E- Field(V/ m)	Limit(V/ m)	50% Limit(V/m)	
Measurement Point 1	Front	14	1.1068	0.5534			
Measurement Point 2	Back	14	1.1032	0.5516			
Measurement Point 3	Left	14	1.1152	0.5576	614	307	
Measurement Point 4	Right	14	1.0966	0.5483	614	307	
Measurement Point 5	Bottom	14	1.0342	0.5171			
Measurement Point 6	Тор	14	1.3843	0.6922			



Magnetic Field (H-Field) strength at 16cm from the boundaries of EUT.

Test Mode: Wireless Charging 15W							
		Measuring Distance(cm)	H- Field(A /m)	50% H- Field(A/ m)	Limit(A /m)	50% Limit(A/m)	
Measurement Point 1	Front	16	0.9062	0.4531			
Measurement Point 2	Back	16	0.7894	0.3947		0.045	
Measurement Point 3	Left	16	0.8488	0.4244	1.00		
Measurement Point 4	Right	16	0.8656	0.4328	1.63	0.815	
Measurement Point 5	Bottom	16	0.7686	0.3843			
Measurement Point 6	Тор	16	0.9638	0.4819			

Test Mode: Wireless Charging 15W						
		Measuring Distance(cm)	E- Field(V/ m)	50% E- Field(V/ m)	Limit(V/ m)	50% Limit(V/m)
Measurement Point 1	Front	16	1.1042	0.5521		
Measurement Point 2	Back	16	1.0996	0.5498		
Measurement Point 3	Left	16	1.1146	0.5573	614	207
Measurement Point 4	Right	16	1.0846	0.5423	614	307
Measurement Point 5	Bottom	16	0.9694	0.4847		
Measurement Point 6	Тор	16	1.3668	0.6834		



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Magnetic Field (ctronath at	10 cm from	the hounda	rice of ELIT
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Test Mode: Wireless Charging 15W							
		Measuring Distance(cm)	H- Field(A /m)	50% H- Field(A/ m)	Limit(A /m)	50% Limit(A/m)	
Measurement Point 1	Front	18	0.8996	0.4498			
Measurement Point 2	Back	18	0.7882	0.3941		0.045	
Measurement Point 3	Left	18	0.8464	0.4232	1.60		
Measurement Point 4	Right	18	0.8638	0.4319	1.63	0.815	
Measurement Point 5	Bottom	18	0.7676	0.3838			
Measurement Point 6	Тор	18	0.9624	0.4812			

Test Mode: Wireless Charging 15W							
		Measuring Distance(cm)	E- Field(V/ m)	50% E- Field(V/ m)	Limit(V/ m)	50% Limit(V/m)	
Measurement Point 1	Front	18	1.0964	0.5482			
Measurement Point 2	Back	18	1.0894	0.5447			
Measurement Point 3	Left	18	1.1086	0.5543	614	307	
Measurement Point 4	Right	18	1.0764	0.5382	614	307	
Measurement Point 5	Bottom	18	0.9658	0.4829			
Measurement Point 6	Тор	18	1.3426	0.6713			



Test Mode: Wireless Charging 15W							
		Measuring Distance(cm)	H- Field(A /m)	50% H- Field(A/ m)	Limit(A /m)	50% Limit(A/m)	
Measurement Point 1	Front	20	0.8994	0.4497			
Measurement Point 2	Back	20	0.7864	0.3932			
Measurement Point 3	Left	20	0.8432	0.4216	1.62	0.015	
Measurement Point 4	Right	20	0.8626	0.4313	1.63	0.815	
Measurement Point 5	Bottom	20	0.7666	0.3833]		
Measurement Point 6	Тор	20	0.9616	0.4808			

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

Test Mode: Wireless Charging 15W							
		Measuring Distance(cm)	E- Field(V/ m)	50% E- Field(V/ m)	Limit(V/ m)	50% Limit(V/m)	
Measurement Point 1	Front	20	1.0743	0.5372			
Measurement Point 2	Back	20	1.0366	0.5183			
Measurement Point 3	Left	20	1.0899	0.5450	614	207	
Measurement Point 4	Right	20	1.0624	0.5312	614	307	
Measurement Point 5	Bottom	20	0.9662	0.4831			
Measurement Point 6	Тор	20	1.2576	0.6288			

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PHOTOGRAPHS OFTEST SETUP



Signature

Shema les

Shawn Wen General Manager Date: 2024-04-16