

EUT Specification

FCC ID: YJW-10644PG

Characteristics	Description
Product Name	portable power source
Model number	10644PG
Series number	N/A
Ratings	TypeC: 5V/2A
Operating Frequency Range	110-205KHz for phone charging
Modulation Technique	FSK for phone charging
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 v04

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 oftransient 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.

Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
	E&H-Field					
\checkmark	Probe(9kHz-30M	Narda	EHP-200A	180ZX11012	Sep. 21, 2024	1 Year
	Hz)					

Measuring Device And Test Equipment

Description of Support Device

: Manufacturer: Apple Inc. M/N: A2176 S/N: N/A

Adapter

: Manufacturer: XIAOMI M/N: MDY-11-EX S/N: N/A

Frequency	Electric Field	Magnetic Field	Power	Average
Range(MHz)	Strength(V/m)	Strength(A/m)	Density(mW/cm ²)	Time
	(A) Limits for C	occupational/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			F/1500	30
1500-100000			1	30

Limits for Maximum Permissible Exposure (MPE)

Note: f denotes for frequency in MHz.

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

Measurement Result

The data of Probe's X, Y and Z axes were tested respectively, and only the worst data recorded in the report.

The test probe radius is 5cm.

The measurement distance from 0cm—6cm test results are calculated through the counting formula.

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

Test Mode: Wireless Charging 5W								
		Measuring Distance(cm)	H- Field(A /m)	50% H- Field(A/ m)	Limit(A /m)	50% Limit(A/m)		
Measurement Point 1	Front	0	0.997	0.513				
Measurement Point 2	Back	0	0.782	0.357				
Measurement Point 3	Left	0	0.595	0.261	1.00	0.045		
Measurement Point 4	Right	0	0.771	0.393	1.03	0.815		
Measurement Point 5	Bottom	0	0.660	0.351				
Measurement Point 6	Тор	0	0.635	0.326				

Test Mode: Wireless Charging 5W								
		Measuring Distance(cm)	E- Field(V/ m)	50% E- Field(V/ m)	Limit(V/ m)	50% Limit(V/m)		
Measurement Point 1	Front	0	7.447	3.733				
Measurement Point 2	Back	0	6.384	3.187				
Measurement Point 3	Left	0	5.243	2.632	614	207		
Measurement Point 4	Right	0	4.251	2.134	014	307		
Measurement Point 5	Bottom	0	5.815	2.919				
Measurement Point 6	Тор	0	5.134	2.573				

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

Test Mode: Wireless Charging 5W								
		Measuring Distance(cm)	H- Field(A /m)	50% H- Field(A/ m)	Limit(A /m)	50% Limit(A/m)		
Measurement Point 1	Front	2	0.980	0.495		0.045		
Measurement Point 2	Back	2	0.664	0.337				
Measurement Point 3	Left	2	0.475	0.243	1.62			
Measurement Point 4	Right	2	0.740	0.374	1.05	0.015		
Measurement Point 5	Bottom	2	0.639	0.324				
Measurement Point 6	Тор	2	0.616	0.313				

Test Mode: Wireless Charging 5W								
		Measuring Distance(cm)	E- Field(V/ m)	50% E- Field(V/ m)	Limit(V/ m)	50% Limit(V/m)		
Measurement Point 1	Front	2	7.365	3.687				
Measurement Point 2	Back	2	6.284	3.147				
Measurement Point 3	Left	2	5.175	2.593	614	207		
Measurement Point 4	Right	2	4.163	2.086	014	307		
Measurement Point 5	Bottom	2	5.661	2.836				
Measurement Point 6	Тор	2	5.001	2.511				

Magnetic Field (H-Field) strength at 4cm from the boundaries of EUT.

Test Mode: Wireless Charging 5W								
		Measuring Distance(cm)	H- Field(A /m)	50% H- Field(A/ m)	Limit(A /m)	50% Limit(A/m)		
Measurement Point 1	Front	4	0.969	0.489		0.045		
Measurement Point 2	Back	4	0.643	0.326				
Measurement Point 3	Left	4	0.461	0.235	1.62			
Measurement Point 4	Right	4	0.731	0.371	1.03	0.015		
Measurement Point 5	Bottom	4	0.664	0.337				
Measurement Point 6	Тор	4	0.609	0.309				

Test Mode: Wireless Charging 5W								
		Measuring Distance(cm)	E- Field(V/ m)	50% E- Field(V/ m)	Limit(V/ m)	50% Limit(V/m)		
Measurement Point 1	Front	4	7.359	3.684				
Measurement Point 2	Back	4	6.271	3.141				
Measurement Point 3	Left	4	5.081	2.545	614	207		
Measurement Point 4	Right	4	4.070	2.040	014	307		
Measurement Point 5	Bottom	4	5.643	2.826				
Measurement Point 6	Тор	4	5.007	2.508				

Magnetic Field (H-Field) strength at 6cm from the boundaries of EUT.

Test Mode: Wireless Charging 5W								
		Measuring Distance(cm)	H- Field(A /m)	50% H- Field(A/ m)	Limit(A /m)	50% Limit(A/m)		
Measurement Point 1	Front	6	0.957	0.483				
Measurement Point 2	Back	6	0.628	0.321				
Measurement Point 3	Left	6	0.391	0.199	1.62	0.915		
Measurement Point 4	Right	6	0.717	0.363	1.03	0.615		
Measurement Point 5	Bottom	6	0.647	0.328				
Measurement Point 6	Тор	6	0.598	0.304				

Test Mode: Wireless Charging 5W								
		Measuring Distance(cm)	E- Field(V/ m)	50% E- Field(V/ m)	Limit(V/ m)	50% Limit(V/m)		
Measurement Point 1	Front	6	7.239	3.624				
Measurement Point 2	Back	6	6.154	3.082				
Measurement Point 3	Left	6	4.381	2.195	614	207		
Measurement Point 4	Right	6	3.170	1.590	014	307		
Measurement Point 5	Bottom	6	5.583	2.796				
Measurement Point 6	Тор	6	4.607	2.308				

Magnetic Field (H-Field) strength at 8cm from the boundaries of EUT.

Test Mode: Wireless Charging 5W								
		Measuring Distance(cm)	H- Field(A /m)	50% H- Field(A/ m)	Limit(A /m)	50% Limit(A/m)		
Measurement Point 1	Front	8	0.127	0.099				
Measurement Point 2	Back	8	0.071	0.041				
Measurement Point 3	Left	8	0.086	0.048	1.62	0.915		
Measurement Point 4	Right	8	0.106	0.057	1.63	0.015		
Measurement Point 5	Bottom	8	0.087	0.048				
Measurement Point 6	Тор	8	0.113	0.061				

Test Mode: Wireless Charging 5W							
		Measuring Distance(cm)	E- Field(V/ m)	50% E- Field(V/ m)	Limit(V/ m)	50% Limit(V/m)	
Measurement Point 1	Front	8	1.331	0.669			
Measurement Point 2	Back	8	1.139	0.574			
Measurement Point 3	Left	8	1.144	0.577	614	207	
Measurement Point 4	Right	8	1.231	0.621	014	307	
Measurement Point 5	Bottom	8	1.227	0.619			
Measurement Point 6	Тор	8	1.252	0.630			

Magnetic Field (H-Field) strength at 10cm from the boundaries of EUT.

Test Mode: Wireless Charging 5W								
		Measuring Distance(cm)	H- Field(A /m)	50% H- Field(A/ m)	Limit(A /m)	50% Limit(A/m)		
Measurement Point 1	Front	10	0.104	0.057				
Measurement Point 2	Back	10	0.089	0.051				
Measurement Point 3	Left	10	0.075	0.043	1.62	0.915		
Measurement Point 4	Right	10	0.097	0.054	1.05	0.015		
Measurement Point 5	Bottom	10	0.083	0.046				
Measurement Point 6	Тор	10	0.076	0.044				

Test Mode: Wireless Charging 15W + 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	10	1.100	0.555			
Measurement Point 2	Back	10	1.062	0.536			
Measurement Point 3	Left	10	1.034	0.522	614	207	
Measurement Point 4	Right	10	1.064	0.537	014	307	
Measurement Point 5	Bottom	10	1.084	0.548			
Measurement Point 6	Тор	10	1.093	0.551			

Test Mode: Wireless Charging 5W							
		Measuring Distance(cm)	H- Field(A /m)	50% H- Field(A/ m)	Limit(A /m)	50% Limit(A/m)	
Measurement Point 1	Front	12	0.085	0.048			
Measurement Point 2	Back	12	0.075	0.043			
Measurement Point 3	Left	12	0.067	0.039	1.00	0.045	
Measurement Point 4	Right	12	0.059	0.034	1.03	0.815	
Measurement Point 5	Bottom	12	0.078	0.045			
Measurement Point 6	Тор	12	0.062	0.036			

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

Test Mode: Wireless Charging 5W								
		Measuring Distance(cm)	E- Field(V/ m)	50% E- Field(V/ m)	Limit(V/ m)	50% Limit(V/m)		
Measurement Point 1	Front	12	0.830	0.420				
Measurement Point 2	Back	12	0.688	0.349				
Measurement Point 3	Left	12	0.518	0.264	614	207		
Measurement Point 4	Right	12	0.775	0.392	014	307		
Measurement Point 5	Bottom	12	0.671	0.341				
Measurement Point 6	Тор	12	0.822	0.415				

Magnetic Field (H-Field) strength at 14cm from the boundaries of EUT.

Test Mode: Wireless Charging 5W								
		Measuring Distance(cm)	H- Field(A /m)	50% H- Field(A/ m)	Limit(A /m)	50% Limit(A/m)		
Measurement Point 1	Front	14	0.074	0.042				
Measurement Point 2	Back	14	0.068	0.040				
Measurement Point 3	Left	14	0.071	0.040	1.62	0.915		
Measurement Point 4	Right	14	0.058	0.036	1.03	0.615		
Measurement Point 5	Bottom	14	0.061	0.035				
Measurement Point 6	Тор	14	0.056	0.034				

Test Mode: Wireless Charging 15W + 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	14	0.660	0.335				
Measurement Point 2	Back	14	0.481	0.246				
Measurement Point 3	Left	14	0.382	0.196	614	207		
Measurement Point 4	Right	14	0.582	0.296	014	307		
Measurement Point 5	Bottom	14	0.525	0.268				
Measurement Point 6	Тор	14	0.631	0.321				

Magnetic Field	(H-Field)	strength a	at 16cm f	from the	boundaries	of EUT.
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Test Mode: Wireless Charging 5W								
		Measuring Distance(cm)	H- Field(A /m)	50% H- Field(A/ m)	Limit(A /m)	50% Limit(A/m)		
Measurement Point 1	Front	16	0.074	0.042				
Measurement Point 2	Back	16	0.059	0.035				
Measurement Point 3	Left	16	0.064	0.036	1.62	0.915		
Measurement Point 4	Right	16	0.053	0.032	1.03	0.615		
Measurement Point 5	Bottom	16	0.048	0.031				
Measurement Point 6	Тор	16	0.071	0.041				

Test Mode: Wireless Charging 5W							
		Measuring Distance(cm)	E- Field(V/ m)	50% E- Field(V/ m)	Limit(V/ m)	50% Limit(V/m)	
Measurement Point 1	Front	16	0.620	0.315			
Measurement Point 2	Back	16	0.542	0.276			
Measurement Point 3	Left	16	0.498	0.254	614	207	
Measurement Point 4	Right	16	0.293	0.152	014	307	
Measurement Point 5	Bottom	16	0.378	0.189			
Measurement Point 6	Тор	16	0.497	0.254			

Magnetic Field (H-Field) strength at 18cm from the boundaries of EUT.

Test Mode: Wireless Charging 5W								
		Measuring Distance(cm)	H- Field(A /m)	50% H- Field(A/ m)	Limit(A /m)	50% Limit(A/m)		
Measurement Point 1	Front	18	0.073	0.042				
Measurement Point 2	Back	18	0.061	0.036				
Measurement Point 3	Left	18	0.069	0.040	1.62	0.915		
Measurement Point 4	Right	18	0.063	0.036	1.03	0.015		
Measurement Point 5	Bottom	18	0.058	0.035				
Measurement Point 6	Тор	18	0.067	0.039				

Test Mode: Wireless Charging 5W						
		Measuring Distance(cm)	E- Field(V/ m)	50% E- Field(V/ m)	Limit(V/ m)	50% Limit(V/m)
Measurement Point 1	Front	18	0.510	0.265		
Measurement Point 2	Back	18	0.474	0.242	614	307
Measurement Point 3	Left	18	0.397	0.203		
Measurement Point 4	Right	18	0.449	0.230		
Measurement Point 5	Bottom	18	0.368	0.191		
Measurement Point 6	Тор	18	0.327	0.168		

Test Mode: Wireless Charging 5W						
		Measuring Distance(cm)	H- Field(A /m)	50% H- Field(A/ m)	Limit(A /m)	50% Limit(A/m)
Measurement Point 1	Front	20	0.072	0.042	1.63	0.815
Measurement Point 2	Back	20	0.065	0.037		
Measurement Point 3	Left	20	0.058	0.034		
Measurement Point 4	Right	20	0.069	0.041		
Measurement Point 5	Bottom	20	0.062	0.036		
Measurement Point 6	Тор	20	0.061	0.034		

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

Test Mode: Wireless Charging 5W						
		Measuring Distance(cm)	E- Field(V/ m)	50% E- Field(V/ m)	Limit(V/ m)	50% Limit(V/m)
Measurement Point 1	Front	20	0.440	0.225	614	307
Measurement Point 2	Back	20	0.424	0.217		
Measurement Point 3	Left	20	0.355	0.181		
Measurement Point 4	Right	20	0.277	0.145		
Measurement Point 5	Bottom	20	0.159	0.084		
Measurement Point 6	Тор	20	0.256	0.134		

PHOTOGRAPHS OFTEST SETUP



Signature resting Tec obz Sher Shawn We General Manager Date: 2023-01-15