Report No: SSP24100075-1E

**FCC ID: 2AGA5-P300** 

**Report No.** : SSP24100075-1E

**Prepared For** : SHENZHEN UGOOD TECHNOLOGY CO., LIMITED

**Product Name**: Magntic Wireless Power Bank with Watch Charger

Model Name : P300

**FCC Rule** : FCC Part 15 Subpart C

**Date of Issue** : 2024-10-31

**Prepared By**: Shenzhen CCUT Quality Technology Co., Ltd.



## Shenzhen CCUT Quality Technology Co., Ltd.

1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China; (Tel.:+86-755-23406590 website: www.ccuttest.com)

This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen CCUT Quality Technology Co., Ltd.

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Applicant..... SHENZHEN UGOOD TECHNOLOGY CO., LIMITED

302, Building 22, Lianchuang Technology Park, No. 21 Bulan Road, Xia li lang

Report No: SSP24100075-1E

Address of Applicant..... Community, Nanwan Street, Longgang District, Shenzhen, China

Manufacturer..... SHENZHEN UGOOD TECHNOLOGY CO., LIMITED

302, Building 22, Lianchuang Technology Park, No. 21 Bulan Road, Xia li lang

Address of Manufacturer.....: Community, Nanwan Street, Longgang District, Shenzhen, China

Magntic Wireless Power Bank with Watch Charger Product Name.....

Brand Name..... MIABOO, UGOOD

Main Model..... P300

Series Models.... PW300, QC300, QC300BK, QC-300BK, QC-300

FCC Part 15 Subpart C

Test Standard....: ANSI C63.10-2013

Date of Test .....: 2024-10-11 to 2024-10-31

Test Result....: **PASSED** 

Tested Engineer ...... Lea Lieber Augung

Lahn Pena (Leonis Cai)

(Lieber Ouyang)

(Lahm Peng) Authorized Signatory.....

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Revision	Issue Date	Description	Revised By
V1.0	2024-10-31	Initial Release	Lahm Peng

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# 1. General Information

## 1.1 Product Information

Product Name:	Magntic Wireless Power Bank with Watch Charger
Trade Name:	MIABOO, UGOOD
Main Model:	P300
Series Models:	PW300, QC300, QC300BK, QC-300BK, QC-300
	Type-C Input: 12V-1.5A, 9V-2A, 5V-3A
	Type-C Output: 12V-1.67A, 9V-2.22A, 5V-3A
	USB-A Output: 12V-1.5A, 9V-2A, 5V-4.5A
Dated Valtage	Type-C Cables Input: 12V-1.5A, 9V-2A, 5V-3A
Rated Voltage:	Type-C Cables Output: 12V-1.67A, 9V-2.22A, 5V-3A
	Lightning Cables Output: 12V-1.5A, 9V-2A, 5V-3A
	Wireless charging: 15W, 10w, 7.5w, 5w
	Watch Wireless charging: 2.5W
Power Adapter:	-
Battery:	10000mAh (3.85V, 38.5Wh)
Hardware Version:	V1.0
Software Version:	V1.0
Note 1: The test data is gat	hered from a production sample, provided by the manufacturer.

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Note 2: The color of appearance and model name of series models listed are different from the main model, but the circuit and the electronic construction are the same, declared by the manufacturer.

Wireless Specification	
Wireless Standard:	Wireless charging
Operating Frequency:	110.5kHz-205kHz, 310kHz-340kHz
Modulation:	ASK
Antenna Gain:	0dBi
Type of Antenna:	Coil Antenna
Type of Device:	☑ Portable Device ☐ Mobile Device ☐ Modular Device

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# 1.2 Test Setup Information

List of Test Mo	odes							
Test Mode		Description			Remark			
TM1		Wireless charging 15	W	-				
TM2		Wireless charging 10	W	-				
TM3		Wireless charging 7.5	5W		-			
TM4		Wireless charging 5	W		-			
TM5		Wireless charging 2.5	5W		-			
TM6	Wire	less charging 15W+ Wireless	charging 2.5W		-			
TM7	Wire	less charging 10W+ Wireless	charging 2.5W		-			
TM8	Wirel	less charging 7.5W+ Wireless	s charging 2.5W	-				
TM9	Wire	eless charging 5W+ Wireless	charging 2.5W	-				
TM10	Wireless	charging 5W+ Wireless charg	ging 2.5W+ Charging					
TM11		Wireless charging 5W+ Cl	narging					
TM12		Wireless charging 2.5W+ (	Charging					
Note: All mod	es have been	tested and only the worst mo	ode TM6 and TM10 data	is rep	presented in the report.			
List and Detai	ls of Auxiliary	y Cable						
Descri	ption	Length (cm)	Shielded/Unshielde	d	With/Without Ferrite			
-		-	-		-			
-		-	-		-			
List and Detai	ls of Auxiliary	y Equipment						
Descri	ption	Manufacturer	Model		Serial Number			
Dummy	y load	YBZ	YBZ-001		N/A			
Adap	oter	HUAWEI	HW-110600C02	JL28L4P2D06114				

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## 1.3 Compliance Standards

Compliance Standards						
ECC Dout 15 Cubnout C	FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES,					
FCC Part 15 Subpart C	Intentional Radiators					
All measurements contained in	this report were conducted with all above standards					
According to standards for te	st methodology					
ECC Dout 15 Culomont C	FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES,					
FCC Part 15 Subpart C	Intentional Radiators					
	American National Standard for Methods of Measurement of Radio-Noise Emissions					
ANSI C63.4-2014	from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40					
	GHz.					
ANCI CC2 10 2012	American National Standard of Procedures for Compliance Testing of Unlicensed					
ANSI C63.10-2013	Wireless Devices					
Maintenance of compliance is the responsibility of the manufacturer or applicant. Any modification of the product, which						
result is lowering the emission,	should be checked to ensure compliance has been maintained.					

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#### 1.4 Test Facilities

Shenzhen CCUT Quality Technology Co., Ltd.									
1F, Building 35, Changxing Technology Industrial Park, Yutang Street,									
Guangming District, Shenzhen, Guangdong, China									
L18863									
6893.01									
583813									
CN0164									

All measurement facilities used to collect the measurement data are located at 1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China.

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## 1.5 List of Measurement Instruments

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date							
		Conducted Emissi	ons									
AMN	ROHDE&SCHWARZ	ENV216	101097	2024-08-07	2025-08-06							
EMI Test Receiver	ROHDE&SCHWARZ	ESPI	100242	2024-08-07	2025-08-06							
Radiated Emissions												
EMI Test Receiver ROHDE&SCHWARZ ESPI 100154 2024-08-07 2025												
Spectrum Analyzer	KEYSIGHT	N9020A	MY48030972	2024-08-07	2025-08-06							
Spectrum Analyzer	ROHDE&SCHWARZ	FSV40-N	101692	2024-08-07	2025-08-06							
Amplifier	SCHWARZBECK	BBV 9743B	00251	2024-08-07	2025-08-06							
Amplifier	HUABO	YXL0518-2.5-45		2024-08-07	2025-08-06							
Amplifier	COM-MW	DLAN-18G-4G-02	10229104	2024-08-07	2025-08-06							
Loop Antenna	DAZE	ZN30900C	21104	2024-08-03	2025-08-02							
Broadband Antenna	SCHWARZBECK	VULB 9168	01320	2024-08-03	2025-08-02							
Horn Antenna	SCHWARZBECK	BBHA 9120D	02553	2024-08-03	2025-08-02							
Horn Antenna	COM-MW	ZLB7-18-40G-950	12221225	2024-08-03	2025-08-02							
		Conducted RF Tes	ting									
RF Test System	MWRFTest	MW100-RFCB	220418SQS-37	2024-08-07	2025-08-06							
Spectrum Analyzer	KEYSIGHT	N9020A	ATO-90521	2024-08-07	2025-08-06							

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# 1.6 Measurement Uncertainty

Test Item	Conditions	Uncertainty				
Conducted Emissions	9kHz ~ 30MHz	±1.64 dB				
	9kHz ~ 30MHz	±2.88 dB				
Radiated Emissions	30MHz ∼ 1GHz	±3.32 dB				
Radiated Emissions	1GHz ~ 18GHz	±3.50 dB				
	18GHz ~ 40GHz	±3.66 dB				
Occupied Bandwidth	9kHz ~ 26GHz	±4.0 %				

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# 2. Summary of Test Results

FCC Rule	Description of Test Item	Result
FCC Part 15.203	Antenna Requirement	Passed
FCC Part 15.207	Conducted Emissions	Passed
FCC Part 15.209	Radiated Emissions	Passed
FCC Part 15.215(c)	Occupied Bandwidth	Passed

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Passed: The EUT complies with the essential requirements in the standard  $\,$ 

Failed: The EUT does not comply with the essential requirements in the standard

N/A: Not applicable

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# 3. Antenna Requirement

#### 3.1 Standard and Limit

According to FCC Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

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### 3.2 Test Result

This product has an coil antenna, fulfill the requirement of this section.

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## 4. Conducted Emissions

#### 4.1 Standard and Limit

According to the rule FCC Part 15.207, Conducted emissions limit, the limit for a wireless device as below:

Frequency of Emission	Conducted emis	ssions (dBuV)
(MHz)	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

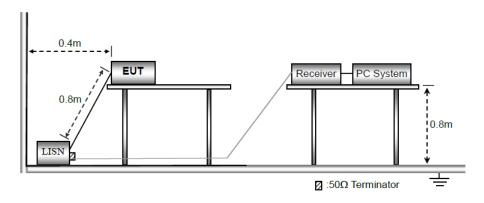
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Note 1: Decreases with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz

Note 2: The lower limit applies at the band edges

#### 4.2 Test Procedure

Test is conducting under the description of ANSI C63.10 - 2013 section 6.2.



Test Setup Block Diagram

- a) The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.
- b) The following is the setting of the receiver

Attenuation: 10dB

Start Frequency: 0.15MHz Stop Frequency: 30MHz IF Bandwidth: 9kHz

c) The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

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d) Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

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- e) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- f) LISN is at least 80 cm from nearest part of EUT chassis.
- g) For the actual test configuration, please refer to the related Item photographs of the test setup.

#### 4.3 Test Data and Results

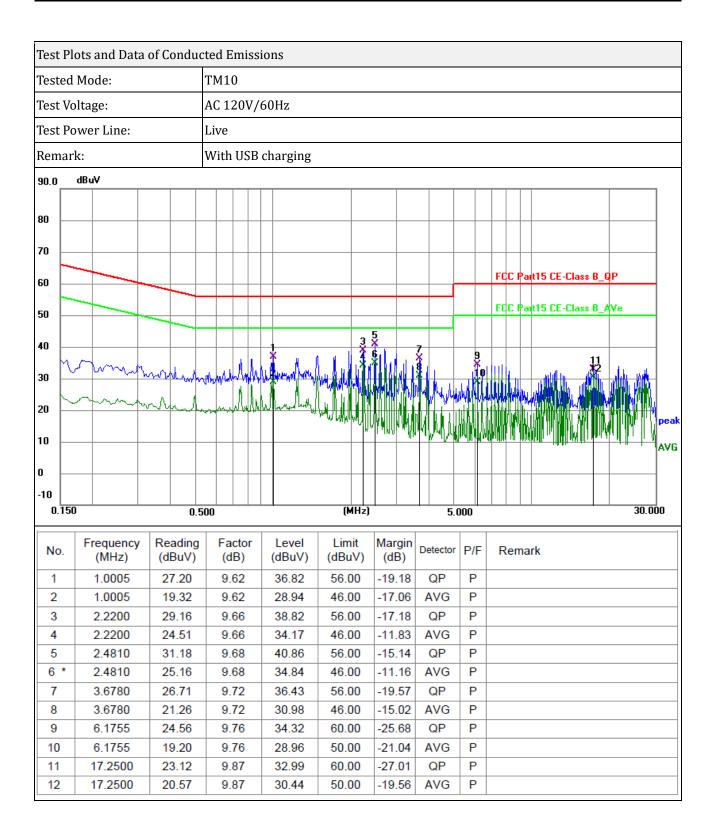
Based on all tested mode data, the EUT complied with the FCC Part 15.207 standard limit for a wireless device, and with the worst case TM10 as below:

Remark: Level = Reading + Factor, Margin = Level - Limit

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Test	Test Plots and Data of Conducted Emissions																					
Test	ed M	ode:			TN	ГМ10																
Test	Volta	age:			A(	AC 120V/60Hz																
Test	Pow	er Line:			Ne	Neutral																
Rem	ark·				W	With USB charging																
	dB	.41				1011	00.		141 81118	•												
90.0	ub	uv					Т	Т														1
80							+															
70							_															-
60	_						_									FC	C Pa	ıt15	CE-Cla	ss B_0	ĮP	
50							_									FC	C Pa	t15	CE-Cla	ss B_/	Ve	
40							1			3		5				_						
30	W	may	Je Myly	arailat	<b>₩</b>	M~/	1/4	WW	MARKAN MAR		A POLICE	Ĭ	llos.	M. 104 Ind.	بالايما	Š	<b>.</b>	N I	9 (q	11 *2	alle alle	-
20	<u> </u>		~~\\	~~/	بهليب	بمبميد	1	W	Lulle	N Way U						Y (()			MANA NA			peak
10											11/1/	TINU	\\\	/ W W	y quivr	100	ויון גיין	Hau. Abatı	K. HARTINI (**)	<b>IN II</b> 14	Millia, I	AVG
0																						
-10																						
0.	150			0	.500						(MHz)			5.	000						30.0	ŌO
No	). F	requency (MHz)		eading (BuV)					Level (dBuV)			Margin (dB)		Detector P/F		R	ema	rk				
1		0.8250	2	7.79		9.4	11	$\dagger$	37.20	56	56.00 -			QP	Р							
2		0.8250	2	0.61		9.4	11		30.02	46	.00	-15.	.98	AVG	Р							
3		1.4685	_	5.64		9.4	14		35.08	56	.00	-20	.92	QP	Р							
4		1.4685		9.04		9.4		$\perp$	28.48	_	.00	-17.		AVG	Р							
5		2.5215		5.97	_	9.4		_	35.45		.00	-20		QP	P							
6		2.5215	_	21.71		9.4		$\perp$	31.19		.00	-14.		AVG	P							
7		7.2240			33.18		.00	-26.		QP	P											
9		7.2240 19.56 9.57 11.9310 22.80 9.54		+	29.13 32.34		.00	-20 -27		AVG QP	P											
10		11.9310		8.03		9.5		+	27.57	_	.00	-22		AVG	Р							
11	_	17.2500	_	2.30		9.7		+	32.03		.00	-27		QP	Р							
12	_	17.2500		8.93		9.7		+	28.66		.00	-21		AVG	P							
12		17.2500	'	0.83		9.1	3		20.00	50	.00	-21.	.34	AVG	Г							

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# 5. Radiated Emissions

## 5.1 Standard and Limit

According to the rule FCC Part 15.209, Radiated emission limit for a wireless device as below:

Frequency of Emission	Field Strength	Measurement Distance	
(MHz)	(micorvolts/meter)	(meters)	
0.009~0.490	2400/F(kHz)	300	
0.490~1.705	24000/F(kHz)	30	
1.705~30.0	30	30	
30~88	100	3	
88~216	150	3	
216~960	200	3	
Above 960	500	3	
Note: The more stringent limit applies at transition frequencies.			

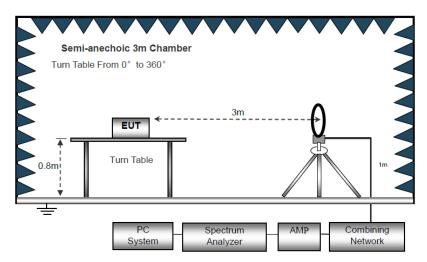
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Note: Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

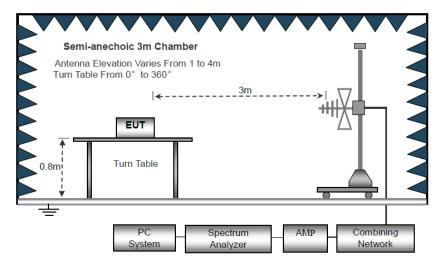
## **5.2 Test Procedure**

Test is conducting under the description of ANSI C63.10 - 2013 section 6.3 to 6.6.

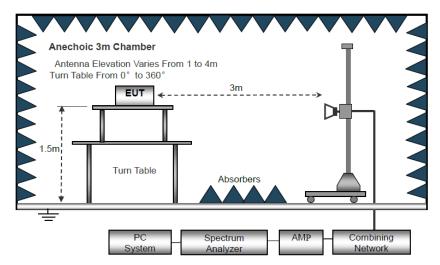
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Block Diagram of Radiated Emission Below 30MHz



Block Diagram of Radiated Emission From 30MHz to 1GHz



Block Diagram of Radiated Emission Above 1GHz

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a) The EUT is placed on a turntable, which is 0.8m above ground plane for test frequency range below 1GHz, and 1.5m above ground plane for test frequency range above 1GHz.

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- b) EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- c) Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for  $f \ge 1$ GHz, 100 kHz for f < 1 GHz, 10kHz for f < 30MHz

VBW ≥ RBW, Sweep = auto

Detector function = peak

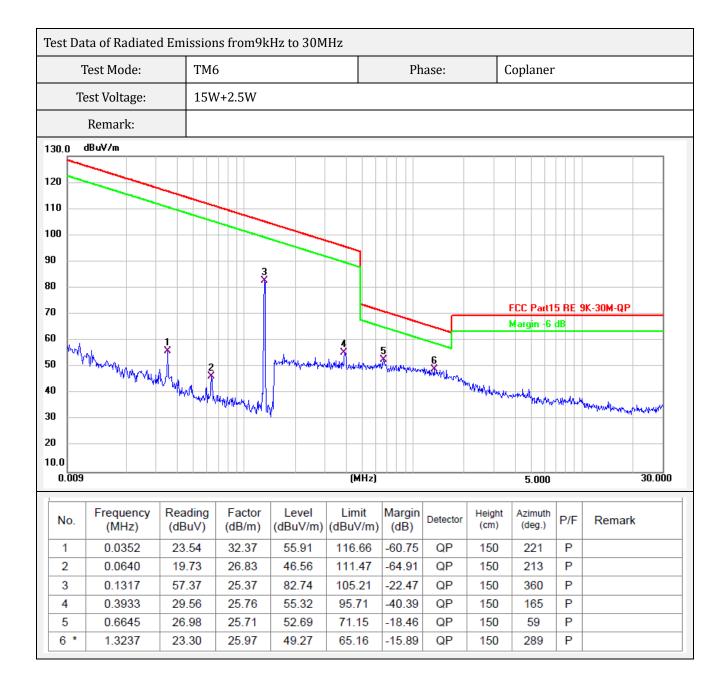
Trace = max hold

- d) Follow the guidelines in ANSI C63.4-2014 with respect to maximizing the emission by rotating the EUT, adjusting the measurement antenna height and polarization, etc. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, submit this data. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- e) The peak level, once corrected, must comply with the limit specified in Section 15.209. Set the RBW = 1MHz, VBW = 10Hz, Detector = PK for AV value, while maintaining all of the other instrument settings.
- f) For the actual test configuration, please refer to the related item EUT test photos.

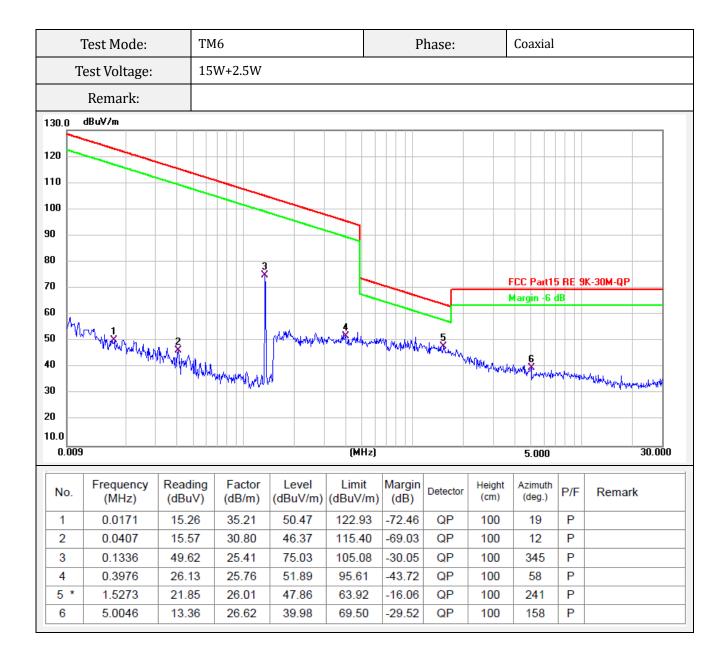
#### 5.3 Test Data and Results

Based on all mode tested data, the EUT complied with the FCC Part 15.209 standard limit for a wireless device, and with the worst case TM6 and TM10 as below:

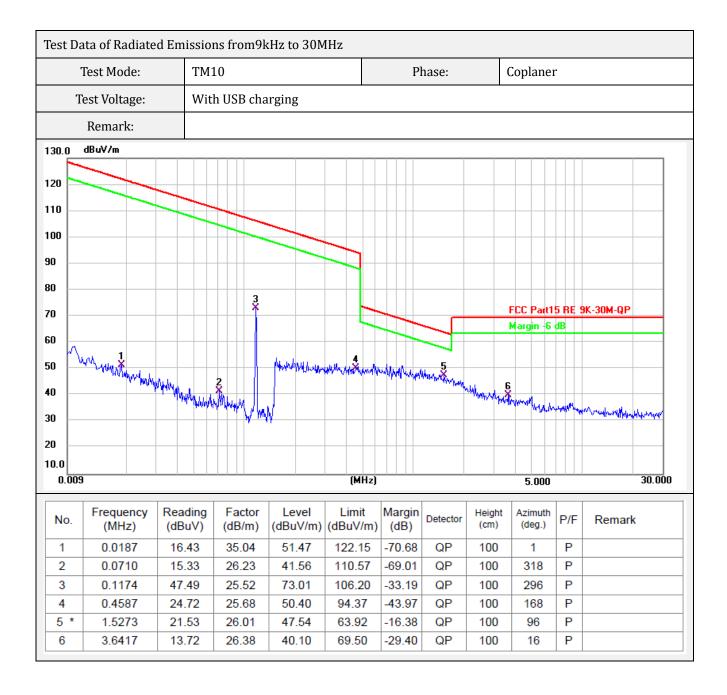
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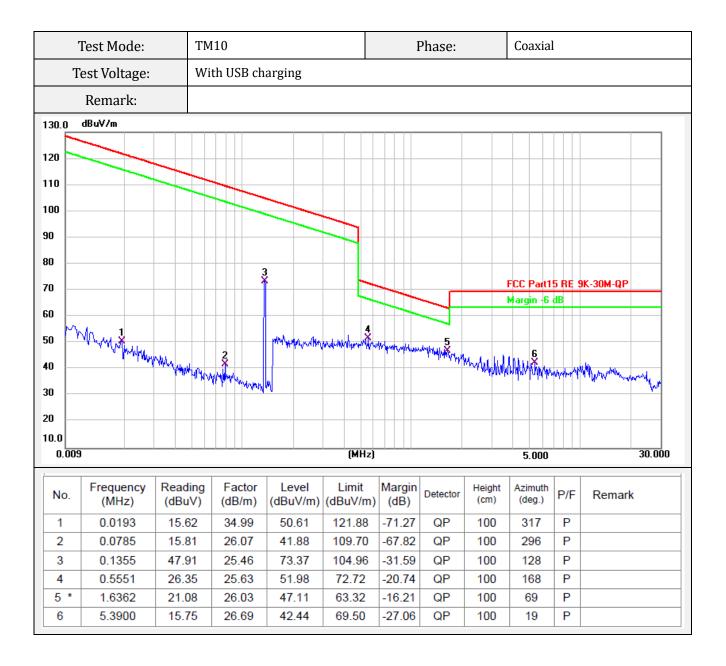
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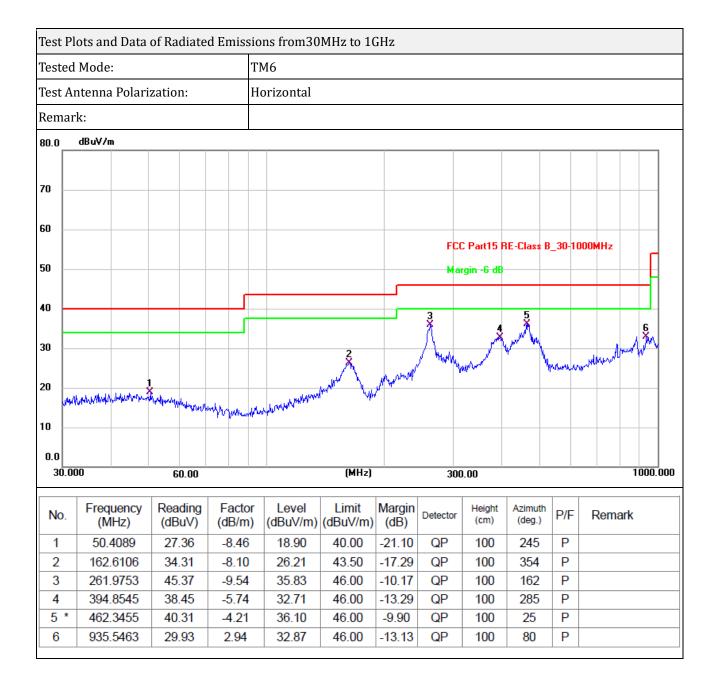


#### Note:

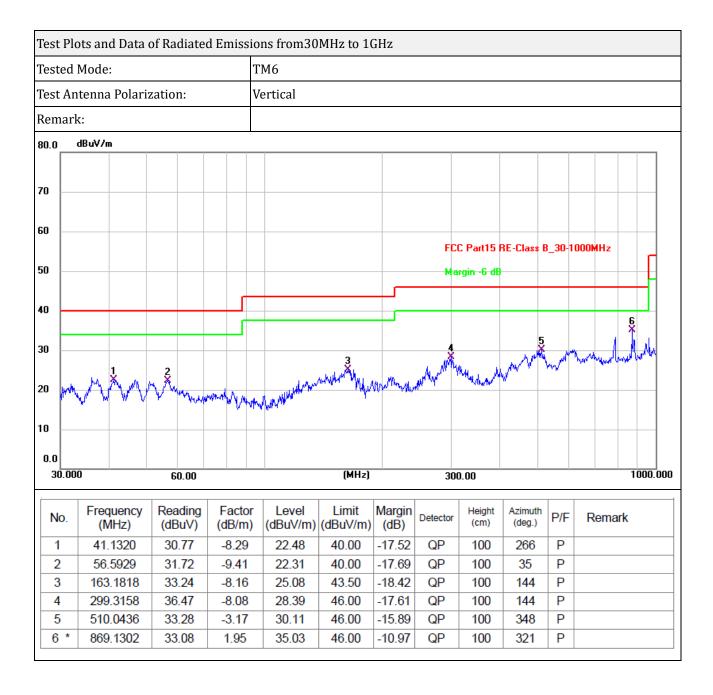
Pre-scan in the all of mode, the worst case in of was recorded. Limit dBuV/m @3m = Limit dBuV/m @300m + 80Limit dBuV/m @3m = Limit dBuV/m @30m + 40

Margin = Reading - Limit.

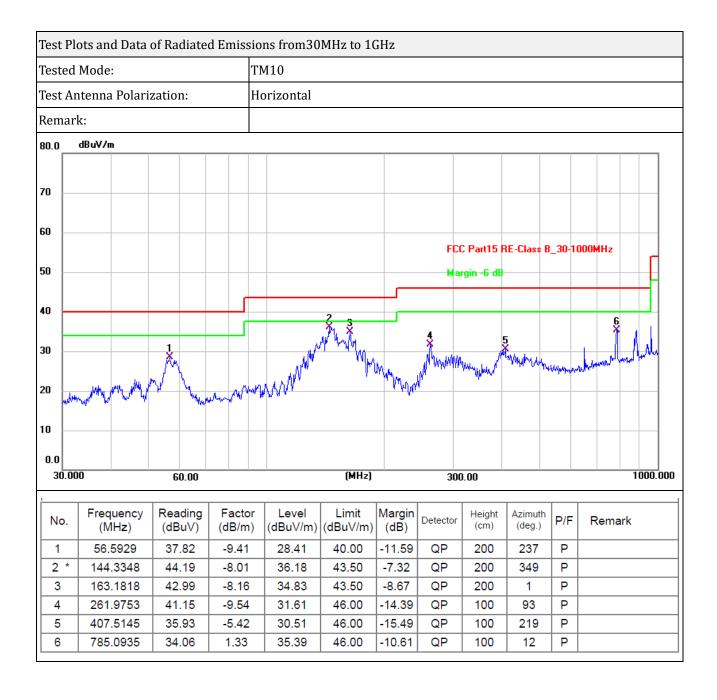
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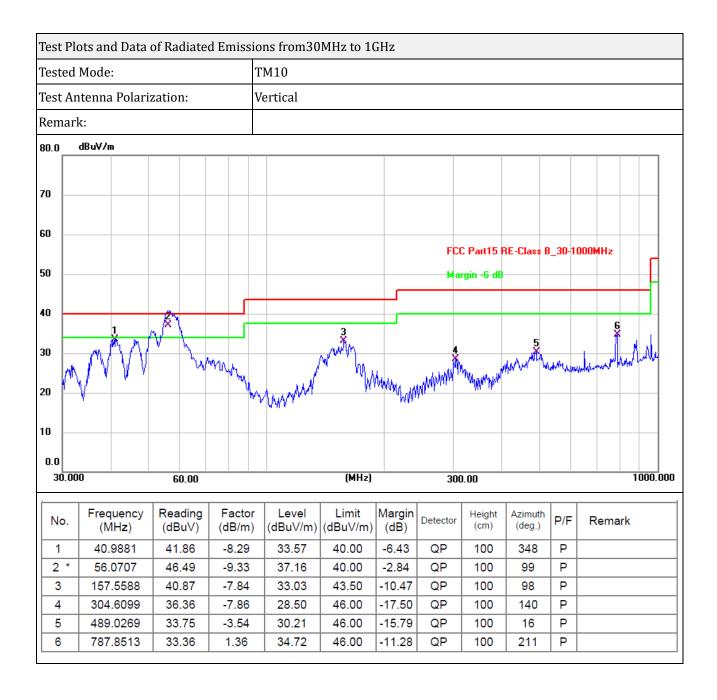
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Note 1: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

Note 2: Testing is carried out with frequency rang 9kHz to the tenth harmonics. The measurements greater than 20dB below the limit from 9kHz to 30MHz.

 $Note \ 3: For \ 9kHz-30MHz, Distance \ extrapolation \ factor \ = 40 \ log \ (specific \ distance/test \ distance) (dB);$ 

 $Limit\ line = specific\ limits\ (dBuV) + distance\ extrapolation\ factor.$ 

Note 4: Level = Reading + Factor, Margin = Level - Limit.

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## 6. Occupied Bandwidth

#### 6.1 Standard and Limit

According to 15.215 (c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

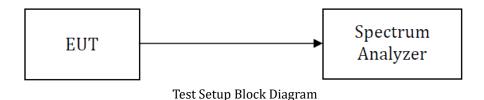
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#### 6.2 Test Procedure

According to the ANSI 63.10-2013, section 6.9, the emission bandwidth test method as follows.

- 1) Remove the antenna from the EUT and connect to the spectrum analyzer via a low loss RF cable.
- 2) Set the spectrum analyzer to any one measured frequency within its operating range.
- 3) Set RBW = 1% of the 20 dB bandwidth, VBW = RBW.
- 4) Set Sweep = Auto, Detector function = peak, Trace = max hold.
- 5) Set a reference level on the measuring instrument equal to the highest peak value.
- 6) Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.

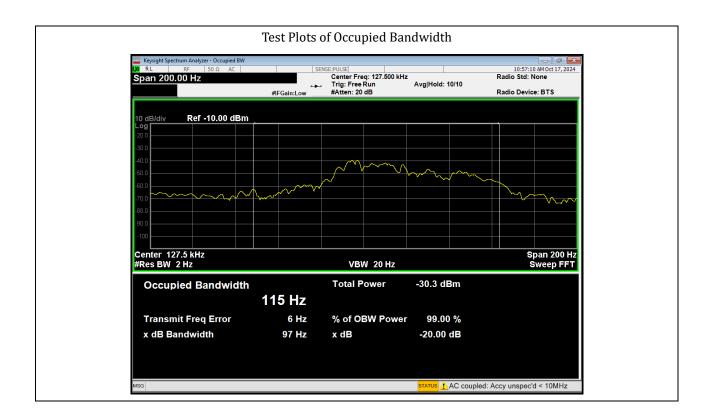
All the trace to stabilize, use the marker-to-peak function to set the marker to the peak of the emission, use the marker-delta function to measure and record the 20dB down and 99% bandwidth of the emission.



#### 6.3 Test Data and Results

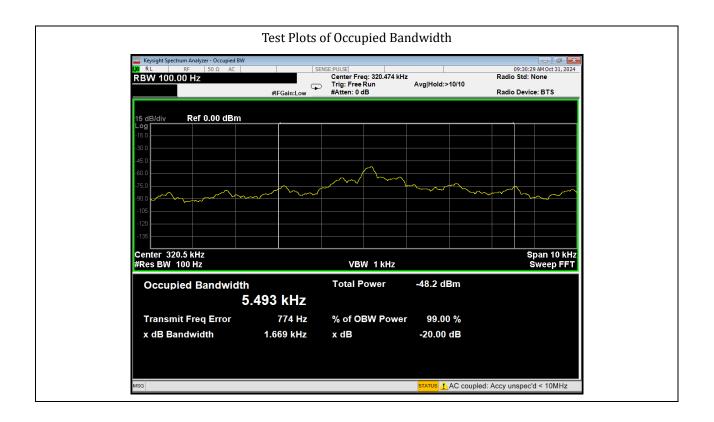
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Test Frequency	20dB Bandwidth	99% Bandwidth
127.5kHz	97Hz	115Hz



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Test Frequency	20dB Bandwidth	99% Bandwidth
320.5kHz	1.669kHz	5.493kHz



\*\*\*\*\* END OF REPORT \*\*\*\*\*

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