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Report No.: UNIA2018071218-1FR-01

FCC RADIO TEST REPORT

FCC ID: 2AQLV-QP6000

Product: LED lamp with wireless charging station

Trade Name : **QIPOWER**

Model Name: QP-QI6000

Serial Model: iH-Qi6000, iH-Qi6000w, QP6000 Report No.: UNIA2018071218-1FR-01

Prepared for

Qi Power Electronic Technology Co., Ltd

8F, Jinlian Business Center, No.2 JinXiu Road, Changan, Dongguan China

Prepared by

Shenzhen United Testing Technology Co., Ltd.

2F, Annex Bldg, Jiahuangyuan Tech Park, #365 Baotian 1 Rd, Tiegang Community, Xixiang Str, Bao'an District, Shenzhen, China

深圳市优耐检测技术有限公司 Shenzhen United Testing Technology Co.,Ltd. United Testing Technology(Hong Kong) Limited

TEST RESULT CERTIFICATION

	Applicant's name:	Qi Power Electronic Technology Co., Ltd	
	Address:	8F, Jinlian Business Center, No.2 JinXiu Road, Changan, Dongguan China	
	Manufacture's Name:	Qi Power Electronic Technology Co., Ltd	
	Address	8F, Jinlian Business Center, No.2 JinXiu Road, Changan, Dongguan China	
	Product description		
	Product name:	LED lamp with wireless charging station	
	Trade Mark:	QIPOWER	
	Model and/or type reference .:	QP-QI6000, iH-Qi6000, iH-Qi6000w, QP6000	
	Standards	FCC Rules and Regulations Part 15 Subpart C Section 15.209 ANSI C63.10: 2013	

This device described above has been tested by Shenzhen United Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test	:
Date (s) of performance of tests	:
Date of Issue	:
Test Result	:

Jul. 12, 2018 ~ Sep. 01, 2018 Sep. 01, 2018 Pass

Prepared by:

Reviewer:

Approved & Authorized Signer:

Kahn yang/Editor

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1.1 TEST PROCEDURES AND RESULTS

DESCRIPTION OF TEST

CONDUCTED EMISSION TEST RADIA TED EMISSION TEST OCCUPIED BANDWIDTH ANTENNA REQUIREMENT RESULT

COMPLIANT COMPLIANT COMPLIANT COMPLIANT

.2 TEST FACILITY

Test Firm : Shenzhen United Testing Technology Co., Ltd.

Address

2F, Annex Bldg, Jiahuangyuan Tech Park, #365 Baotian 1 Rd, Tiegang

Community, Xixiang Str, Bao'an District, Shenzhen, China

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.The testing quality system of our laboratory meets with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAS-LAB Code: L6494

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of testing Laboratories.

Designation Number: CN1227

Test Firm Registration Number: 674885

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files.

1.3 MEASUREMENT UNCERTAINTY

Measurement Uncertainty		
Conducted Emission Expanded Uncertainty	(in the second	2.23dB, k=2
Radiated emission expanded uncertainty(9kHz-30MHz)	-	3.08dB, k=2
Radiated emission expanded uncertainty(30MHz-1000MHz)	=	4.42dB, k=2
Radiated emission expanded uncertainty(Above 1GHz)	=	4.06dB, k=2

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2F, Annex Bldg, Jiahuangyuan Tech Park, #365 Baotian 1 Rd, Tiegang Community, Xixiang Str, Bao'an District, Shenzhen, China 深圳市宝安区西乡街道铁岗社区宝田一路365号嘉皇源科技园附楼2楼 邮编: 518102 Tel: +86-755-86180996 Fax: +86-756 Fax: +86-755-86180996 Fax: +86-756 Fax

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2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	LED lamp with wireless charging station					
Trade Mark						
Model Name	QP-QI6000					
Serial No.	iH-Qi6000, iH-Qi6000w, QP6000					
	All model's the function, software and electric circuit are					
Model Difference	the same, only with a product color and model named					
	different. Test sample model: QP-QI6000.					
FCC ID	2AQLV-QP6000					
Antenna Type	Coil Antenna					
Antenna Gain	0dBi					
Operation frequency	125KHz					
Number of Channels	1CH					
Modulation Type	ASK					
Battery	N/A					
Power Source	DC 12V from adapter with AC 120(240)V/60Hz					
	M/N: SAW65-120-3700U					
Adapter Model	Input: 100-240V~50/60Hz 1.5A Max					
	Output: DC 12V, 3700mA					

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2.2 Carrier Frequency of Channels

Operation Frequency each of channel						
Channel	Frequency					
01	125KHz					

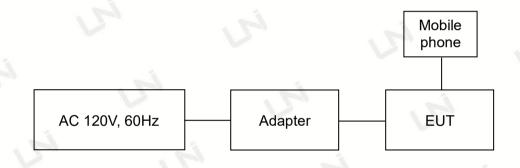
2.3 Operation of EUT during testing

Operating Mode The mode is used:

	Mode 1	Charging mode (loss than 10/ better, status of alignt device)
		Charging mode (less than 1% battery status of client device)
AC 120V	Mode 2	less than 50% battery status of client device
	Mode 3	100% battery status of client device
	Mode 4	Charging mode (less than 1% battery status of client device)
AC 240V	Mode 5	less than 50% battery status of client device
1	Mode 6 🐁	100% battery status of client device

2.4 DESCRIPTION OF TEST SETUP

Operation of EUT during testing:



Setup: Transmission mode

Table for auxiliary equipment

Equipment Description	Manufacturer	Model	Calibration Due Date
Mobile phone	Haixin	M30T	N/A

2.5 MEASUREMENT INSTRUMENTS LIST

Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until		
	2	CONDUCTED	EMISSIONS TEST				
1	AMN	Schwarzbeck	NNLK8121	8121370	2018.9.9		
2	AMN	ETS	3810/2	00020199	2018.9.9		
3	EMI TEST RECEIVER	Rohde&Schwarz	ESCI	101210	2018.9.9		
4	AAN	TESEQ	T8-Cat6	38888	2018.9.9		
1	RADIATED EMISSION TEST						
1	Horn Antenna	Sunol	DRH-118	A101415	2018.9.29		
2	BicoNILog Antenna	Sunol	JB1 Antenna	A090215	2018.9.29		
3	PREAMP	HP	8449B	3008A00160	2018.9.9		
4	PREAMP	HP	8447D	2944A07999	2018.9.9		
5	EMI TEST RECEIVER	Rohde&Schwarz	ESR3	101891	2018.9.9		
6	VECTOR Signal Generator	Rohde&Schwarz	SMU200A	101521	2018.9.28		
7	Signal Generator	Agilent	E4421B	MY4335105	2018.9.28		
8	MXA Signal Analyzer Agilent		N9020A	MY50510140	2018.9.28		
9	MXA Signal Analyzer	Agilent	N9020A	MY51110104	2018.9.9		
10	ANT Tower&Turn table Controller	Champro	EM 1000	60764	2018.9.28		
11	Anechoic Chamber	Taihe Maorui	9m*6m*6m	966A0001	2018.9.9		
12	Shielding Room	Taihe Maorui	6.4m*4m*3m	643A0001	2018.9.9		
13	RF Power sensor	DARE	RPR3006W	15100041SNO88	2019.3.14		
14	RF Power sensor	DARE	RPR3006W	15100041SNO89	2019.3.14		
15	RF power divider	Anritsu	K241B	992289	2018.9.28		
16	Wideband radio communication tester	Rohde&Schwarz	CMW500	154987	2018.9.28		
17	Biconical antenna	Schwarzbeck	VHA 9103	91032360	2018.9.8		
18	Biconical antenna	Schwarzbeck	VHA 9103	91032361	2018.9.8		
19	Broadband Hybrid Antennas	Schwarzbeck	VULB9163	VULB9163#958	2018.9.8		
20	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1680	2019.1.12		
21	Active Receive Loop Antenna	Schwarzbeck	FMZB 1919B	00023	2018.11.02		
22	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170651	2019.03.14		
23	Microwave Broadband Preamplifier	Schwarzbeck	BBV 9721	100472	2018.10.24		
24	Active Loop Antenna	Com-Power	AL-130R	10160009	2019.05.10		
25	Power Meter	KEYSIGHT	N1911A	MY50520168	2019.05.10		

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3 CONDUCTED EMISSION TEST

3.1 Conducted Power Line Emission Limit

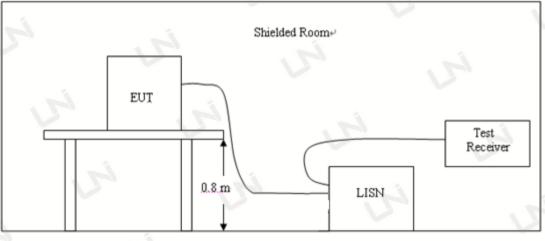
For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following

Fraguanay	Maximum RF Line Voltage(dBµV)						
Frequency	CLA	SS A	CLASS B				
(MHz)	Q.P.	Ave.	Q.P.	Ave.			
0.15~0.50	79	66	66~56*	56~46*			
0.50~5.00	73	60	56	46			
5.00~30.0	73	60	60	50			

Decreasing linearly with the logarithm of the frequency

For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

3.2 Test Setup



3.3 Test Procedure

- 1, The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. A wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10.
- 2, Support equipment, if needed, was placed as per ANSI C63.10.
- 3, All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4, If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5, All support equipments received AC power from a second LISN, if any.
- 6, The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7, Analyzer/Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.

3.4 Test Result

PSSS

Remark:

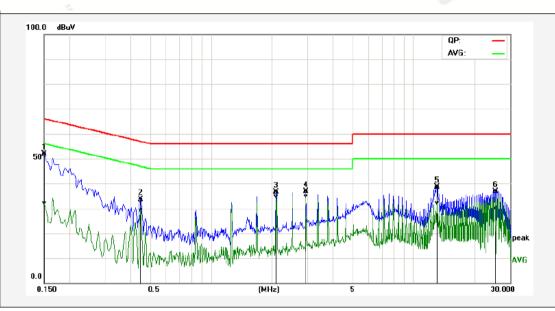
1. All modes were tested, only the worst result of mode1 was reported.

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Temperature:	25°C	Relative Humidity:	47%	4
Test Date:	Aug. 22, 2018	Pressure:	1030hPa	5
Test Voltage:	AC 120V, 60Hz	Phase:	Line	
Test Mode:	Mode1	S	in .	



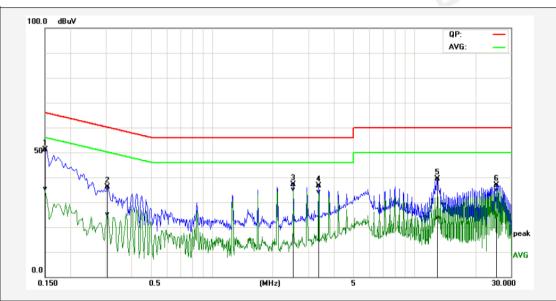
No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1P	0.1500	43.83	24.09	8.04	51.87	32.13	65.99	56.00	-14.12	-23.87	Pass
2P	0.4500	23.74	19.53	9.92	33.66	29.45	56.87	46.88	-23.21	-17.43	Pass
3*	2.1099	26.56	24.80	10.08	36.64	34.88	56.00	46.00	-19.36	-11.12	Pass
4Ρ	2.9539	26.72	24.77	10.08	36.80	34.85	56.00	46.00	-19.20	-11.15	Pass
5P	13.0820	28.53	22.04	10.20	38.73	32.24	60.00	50.00	-21.27	-17.76	Pass
6P	25.3220	26.21	19.83	10.62	36.83	30.45	60.00	50.00	-23.17	-19.55	Pass

Remark: Factor = Insertion Loss + Cable Loss, Result=Reading + Factor, Margin=Result - Limit.

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		5. C		
Temperature:	25°C	Relative Humidity:	47%	
Test Date:	Jun. 28, 2018	Pressure:	1030hPa	S
Test Voltage:	AC 120V, 60Hz	Phase:	Neutral	
Test Mode:	Mode1	S	Ĺ,	



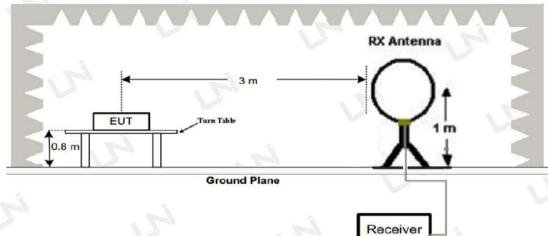
No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBu∀)	(dBu∀)	(dB)	(dBu∀)	(dBu∀)	(dBu∀)	(dBu∀)	(dB)	(dB)	
1P	0.1500	43.18	27.26	8.04	51.22	35.30	65.99	56.00	-14.77	-20.70	Pass
2P	0.3060	26.29	15.14	9.94	36.23	25.08	60.08	50.08	-23.85	-25.00	Pass
3*	2.5340	27.00	25.02	10.08	37.08	35.10	56.00	46.00	-18.92	-10.90	Pass
ÂΡ	3.3780	26.52	24.03	10.06	36.58	34.09	56.00	46.00	-19.42	-11.91	Pass
5P	13.0140	29.09	13.69	10.20	39.29	23.89	60.00	50.00	-20.71	-26.11	Pass
6P	25.3260	26.32	24.14	10.62	36.94	34.76	60.00	50.00	-23.06	-15.24	Pass

Remark: Factor = Insertion Loss + Cable Loss, Result=Reading + Factor, Margin=Result - Limit.

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4 RADIATED EMISSION TEST

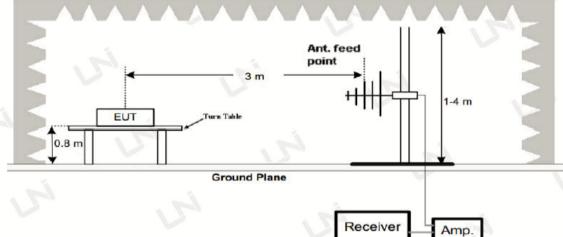
- 4.1 Test Setup
 - 1. Radiated Emission Test-Up Frequency Below 30MHz



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2. Radiated Emission Test-Up Frequency 30MHz~1GHz



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4.2 Rules and specifications

CFR 47 Part 15, section 15.205

Only spurious emissions are permitted in any of the frequency bands listed the tables in these sections.

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
\1\ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293.	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(\2\)
13.36-13.41			

CFR 47 Part 15, section 15.209

The emissions from an intentional radiator shall not exceed the limits in the tables in these sections using an average detector

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (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

Limit calculation and transfer to 3m distance as showed in the following table:

Frequency (MHz)	Limit (dBuV/m)	Distance
		(m)
0.009-0.490	20log(2400/F(KHz))+40log(300/3)	3
0.490-1.705	20log(24000/F(KHz))+40log(30/3)	3
1.705-30.0	69.5	3
30-88	40.0	3
88-216	43.5	3
216-960	46.0	3
Above 960	54.0	3

CFR 47 Part 15, section 15.35

When average radiated emission measurements are specified, the limit on the peak level of the radio Frequency emission is 20dB above the maximum permitted average emission limit.

Transmitter Spurious Emissions 9KHz-30MHz								
5	9-150KHz	150-490KHz	490KHz-30MHz					
Resolution Bandwidth	200Hz	9KHz	9KHz					
Video Bandwidth	2KHz	100KHz	100KHz					
Detector	Peak	Peak	Peak					
Trace Mode	Max Hold	Max Hold	Max Hold					
Sweep Time	Auto	Auto	Auto					

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4.3 Test Procedure

Measurement distance is 3m.

For the measurement range up to 30MHz in the following plots the field strength result from 3m Distance measurement are extrapolated to 300m and 30m distance respectively, by 40dB/decade, According to part 15.31(f)(2), per antenna factor scaling.

Measurements below 1000MHz are performed with a peak detector and compared to average limits, Measurements with an average detector are not required. Note:

For battery operated equipment, the equipment tests shall be performed using a new battery.

4.4 Test Result

PASS

1. All modes were tested, only the worst result of mode1 was reported.

For 9KHz-30MHz Test Results:

Freq. (MHz)	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limits 3m (dBuV/m)	Margin (dBuV/m)
0.125	Peak	55.75	15.20	70.95	105.67	-34.72
0.130	Peak	49.33	15.28	64.61	105.33	-40.72
0.163	Peak	43.81	15.28	59.09	103.17	-44.08
0.394	Peak	46.48	14.75	61.23	95.69	-34.46
0.412	Peak	49.69	14.75	64.44	95.31	-30.87

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For 30MHz-1GHz Test Results:

Temperature:	25°C	Relative Humidity:	50%	4,
Test Date:	Aug. 28, 2018	Pressure:	1030hPa	
Test Voltage:	AC 120V, 60Hz	Polarization:	Horizontal	
Test Mode:	Mode1		V	1



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	175.0600	48.62	-12.82	35.80	43.50	-7.70			QP
2	230.0985	49.70	-14.07	35.63	46.00	-10.37			peak
3*	289.0100	52.06	-12.36	39.70	46.00	-6.30			QP
4	330.1950	46.32	-11.94	34.38	46.00	-11.62			peak
5	437.1200	44.68	-9.77	34.91	46.00	-11.09			peak
6	979.1804	26.97	-0.66	26.31	54.00	-27.69			peak

Remark: Absolute Level= Reading Level+ Factor, Margin= Absolute Level – Limit Factor=Ant. Factor + Cable Loss – Pre-amplifier

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N

Temperature:	25°C	Relative Humidity:	50%	, H
Test Date:	Aug. 28, 2018	Pressure:	1030hPa	
Test Voltage:	AC 120V, 60Hz	Polarization:	Vertical	
Test Mode:	Mode1		U.	



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	43.9658	50.97	-20.59	30.38	40.00	-9.62			peak
2	92.7871	53.36	-17.99	35.37	43.50	-8.13			peak
3	175.0300	49.32	-12.82	36.50	43.50	-7.00			QP
4*	202.8104	50.09	-12.76	37.33	43.50	-6.17			peak
5	286.9823	42.11	-12.37	29.74	46.00	-16.26			peak
6	403.2500	41.56	-10.63	30.93	46.00	-15.07			peak

Remark: Absolute Level= Reading Level+ Factor, Margin= Absolute Level – Limit Factor=Ant. Factor + Cable Loss – Pre-amplifier

Remark:

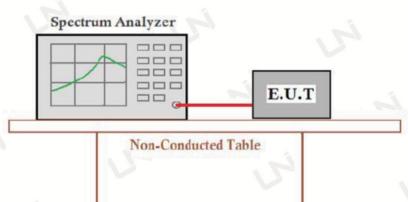
- (1) Measuring frequencies from 9 KHz to the 1 GHz, Radiated emission test from 9KHz to 30MHz was verified, and no any emission was found except system noise floor.
- (2) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (3) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.

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5.1 Block Diagram of Test Setup



Ground Reference Plane

5.2 Rules and specifications CFR 47 Part 15.215(c) ANSI C63.10: 2013

5.3 Test Procedure

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 20dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equip compliance with the 20dB attenuation specification may base on measurement at the intentional radiator's antenna output terminal unless the intentional radiator uses a permanently attached antenna, in which case compliance shall be deomonstrated by measuring the radiated emissions.

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PASS

Mode	Frequency (kHz)	20dB Bandwidth (kHz)	Limit (kHz)	Conclusion
ТХ	125	0.554	/	PASS

RL RF 50Ω AC	SE	ENSE:PULSE	ALIGN OFF	10:03:09 AM Aug 28, 2018
oan 10.000 kHz	#IEGain:Low	Center Freq: 120.60 Trig: Free Run #Atten: 10 dB	0 kHz Avg Hold≫10/10	Radio Std: None Radio Device: BTS
	#II Galil.20W			
dB/div Ref -10.00 dBm				
0.0				
0.0				
0.0				
10				
J.0				
	\sim	\sim / \land	\sim	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				
3.0				
00				
enter 125 kHz	1			Span 10 kHz
Res BW 200 Hz		#VBW 620	Hz	Sweep FFT
Occupied Bandwidth		Total Power	-39.0 dBm	
	493 Hz			
	400112			
Transmit Freq Error	115 Hz	OBW Power	99.00 %	
x dB Bandwidth	554 Hz	x dB	-20.00 dB	

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## 6 ANTENNA REQUIREMENT

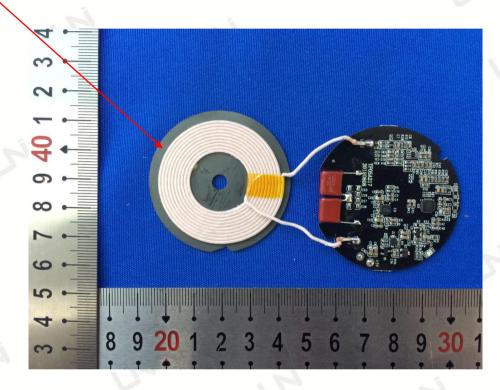
#### Standard Applicable:

For intentional device, according to FCC 47 CFR Section 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.

#### Antenna Connected Construction

The antenna used in this product is a Coil Antenna, the directional gains of antenna used for transmitting is 0dBi.

#### ANTENNA



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7.1 Radiated Emission





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***End of Report***

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