







### **TEST REPORT**

Applicant	Belkin International, Inc.
Address	555 S. Aviation Blvd., Suite 180, El Segundo, CA 90245, USA

Manufacturer or Supplier	Belkin International, Inc.	
Address 555 S. Aviation Blvd., Suite 180, El Segundo, CA 90245, USA		
Product BoostCharge Pro Magnetic Wireless Charging Pad		
Brand Name belkin		
Model	WIA011	
Additional Model & Model Difference	N/A	
Date of tests	Dec. 20, 2024 ~ Jan. 10, 2025	

The submitted sample of the above equipment has been tested for according to the requirements of the following standards:

### FCC Part 15, Subpart C

tric fund

### CONCLUSION: The submitted sample was found to **COMPLY** with the test requirement

Prepared by Eric Fang Project Engineer / EMC Department	Approved by Glyn He Assistant Manager/ EMC Department

Date: Jan. 20, 2025

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <a href="http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/herms-conditions/">http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/herms-conditions/</a> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch

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### **RELEASE CONTROL RECORD**

ISSUE NO. REASON FOR CHANGE		DATE ISSUED
RF2412WDG0137	Original release	Jan. 20, 2025

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### 1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart C					
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK		
§15.203	§15.203 Antenna Requirement		No antenna connector is used.		
§15.207	AC Power Conducted Emission		Meet the requirement of limit.		
§15.209 Radiated Emission		PASS	Meet the requirement of limit.		
§15.215 (c)	20dB Bandwidth	PASS	Meet the requirement of limit.		

### **2 MEASUREMENT UNCERTAINTY**

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	0.15MHz ~ 30MHz	3.36 dB
Radiated emissions	9KHz ~ 30MHz	2.16dB
nadiated emissions	30MHz ~ 1GMHz	4.69 dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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### 3 GENERAL INFORMATION

### 3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	BoostCharge Pro Magnetic Wireless Charging Pad	
MODEL NO.	WIA011	
ADDITIONAL MODE	N/A	
SAMPLE STATUS	Engineering sample	
FCC ID	K7SWIA011	
POWER SUPPLY	Input: 9Vdc 2.22A From Adapter	
MODULATION TYPE	FSK	
OPERATING FREQUENCY	15W Qi2 Charging Coil (MPP):127.7kHz & 360kHz	
RANGE		
I/O PORTS	Coil Antenna	
FIELD STRENGTH	48.99dBuV/m	
MAXIMUM POWER OUTPUT	Max Power is 15W	
FROM THE CHARGING COIL	IVIAX FOWER IS 19VV	
CABLE SUPPLIED	See note 4	

#### **NOTES:**

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
- 3. Please refer to the EUT photo document (Reference No.: 2412WDG0137-3) for detailed product photo.
- 4. Product cable information as follows:

ID	Descriptions	Qty.	Length (m)	Shielding (Y/N)	Cores (Qty.)	Remark
1	USB-C TO INTEGRATED WIRELESS	1	2.0	<b>&gt;</b>	0	N/A
	CHARGING COIL CABLE	l	2.0	ī	U	IN/A

#### 5. Adapter information as follows:

USB-C Power Ada	pter	USB-C Power Adapter		
MODEL NO.: CYPD20US		MODEL NO.:	A784-120167C-US1	
BRAND NAME:	belkin	BRAND NAME:	belkin	
INPUT:	100-240Vac, 50-60Hz, 0.5A	INPUT:	100-240Vac, 50-60Hz, 0.5A	
OUTPUT:	5V=3A, 9V=2.22A, 12V=1.67A,	оитрит:	5V-3A, 9V-2.23A, 12V-1.67A,	
	PPS: 5V-11V=1.8A		PPS: 5V-11V=2.2A 20.0W MAX	
Manufacturer	Chenyang	Manufacturer	Aohai	



#### 3.2 DESCRIPTION OF TEST MODES

The following test frequencies are provided to this EUT:

Configure	Operating Freque	Operating Frequency Range(KHz)		
A	Standby	/		
В	iPhone 16 Pro	360		

When the maximum power reach 15W for iPhone 16 Pro, the transmission frequency is 360.0KHz, when the maximum power is only 5W/7.5W for AirPods Pro Case/ iPhone 11 Pro, the transmission frequency is 127.7KHz.

the worst test mode was charging for iPhone 16 Pro.

#### 3.3 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT	A	PPLICABLE TO	)	DESCRIPTION		
CONFIGURE	DE 10	DI O	20BW			
MODE	RE<1G	RE<1G PLC		Devices	PSU	
Α	V	-	V	Standby	Chenyang AoHai	
В	V	V	V	iPhone 16 Pro		

Remark: The PSU have 2 factories and both PSU are tested, but only the worst data is represented in the report and identified in the data.

Where RE<1G: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission

20BW: 20dB Bandwidth

#### **Power Line Conducted Emission Test:**

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the worst final test as listed below.

EUT configure mode		Test Frequency(kHz)	Modulation Type	
В	127.7&360	360	FSK	

### Radiated Emission Test (Below 1GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

	EUT configure mode		Test Frequency(kHz)	Modulation Type		
	Α	127.7&360	/	FSK		
Ī	В	127.7&360	360	FSK		

#### 20dB Bandwidth TEST:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT configure mode	Operating Frequency Range(kHz)	Test Frequency(kHz)	Modulation Type	
В	127.7&360	360	FSK	

### **TEST CONDITION:**

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Applicable to Environmental conditions		Input Power	Tested by	
RE<1G	22 °C, 53% RH/25 °C, 55% RH	AC 120V 60Hz	Albert/Ludius	
PLC	25 °C, 52RH	AC 120V 60Hz	Summer	
20BW	24 ℃, 58% RH	AC 120V 60Hz	Jeffery	

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### 3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as a dependent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	iPhone 16 Pro (1#)	Apple	A3083 (MYM93LL/A)	HY9H79YM6Y	BCG-E8666A

NO.	DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A

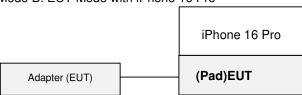
**NOTE:** All power cords of the above support units are non-shielded (1.8m).

### 3.5 CONFIGURATION OF SYSTEM UNDER TEST

Mode A: Standby



Mode B: EUT Mode with iPhone 16 Pro



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### 3.6 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C (15.207/15.209) ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

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### **EMISSION TEST**

#### CONDUCTED EMISSION MEASUREMENT 4.1

#### 4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

EDECLIENCY (MU-)	Class A	(dBuV)	Class B (dBuV)		
FREQUENCY (MHz)	Quasi-peak	Average	Quasi-peak	Average	
0.15 - 0.5	79	66	66 - 56	56 - 46	
0.50 - 5.0	73	60	56	46	
5.0 - 30.0	73	60	60	50	

- **NOTES**: (1) The lower limit shall apply at the transition frequencies.
  - (2) The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50
  - (3) All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

### 4.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR7	101494	Oct. 09, 25
Artificial Mains Network	Rohde&Schwarz	ENV216	101173	Oct. 10, 25
Artificial Mains Network	Rohde&Schwarz	ESH3-Z5	100317	Oct. 09, 25
Artificial Mains Network	SCHWARZBECK	NSLK 8122	8122-05001	Apr. 09, 25
V-LISN (CISPR 25)	SCHWARZBECK	NNBM 8124-200	8124-200 05857	Apr. 09, 25
V-LISN (CISPR 25)	SCHWARZBECK	NNBM 8124-200	8124-200 05858	Apr. 09, 25
Voltage probe	SCHWARZBECK	TK 9421	TK 9421-176	Jul. 10, 25
Coaxial RF Cable	SUHNER	RG 223/U-CE	C2310066DG	Jun. 23, 25
Test software	ADT	ADT_Cond_V7.3.7	N/A	N/A

NOTE: 1. Equipment are calibrated by calibration laboratory accredited to ISO/IEC 17025 by a mutually recognized Accreditation and all tests are conducted within a valid calibration cycle.

2. The test was performed in shielding room 553.

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#### 4.1.3 TEST PROCEDURE

The basic test procedure was in accordance with ANSI C63.4:2014 (section 7).

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit 20dB) were not recorded.

#### NOTE:

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value

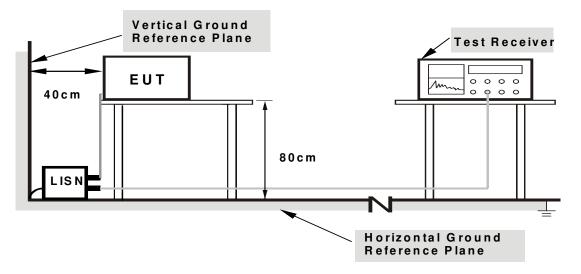
### 4.1.4 DEVIATION FROM TEST STANDARD

No deviation.

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#### 4.1.5 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80cm from EUT and at least 80cm from other units and other metal planes support units.

### 4.1.6 EUT OPERATING CONDITIONS

- a. Turned on the power of all equipment.
- b. EUT was operated according to the type description in manufacturer's specifications or the User's Manual.

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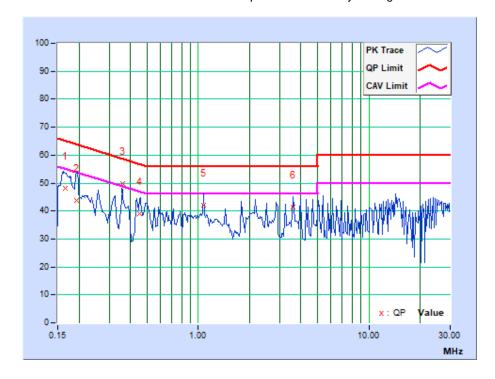


### 4.1.7 TEST RESULTS

TEST MODE	Mode B	6DB BANDWIDTH	9 kHz
TEST VOLTAGE	AC 120V 60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	25deg. C, 52% RH	TESTED BY	Summer
PSU	Chenyang	TEST DATE	2024-12-20

	Freq.	eq. Corr. Reading Value		Emission Limit		nit	Mar	gin		
No.		Factor	[dB (	(uV)]	[dB	(uV)]	[dB (	(uV)]	(dl	3)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16696	9.76	38.42	18.95	48.18	28.71	65.11	55.11	-16.93	-26.40
2	0.19275	9.80	33.86	15.40	43.66	25.20	63.92	53.92	-20.26	-28.72
3	0.35850	9.81	39.88	35.77	49.69	45.58	58.76	48.76	-9.07	-3.18
4	0.45444	9.83	29.38	11.13	39.21	20.96	56.79	46.79	-17.58	-25.83
5	1.07700	9.89	32.22	27.86	42.11	37.75	56.00	46.00	-13.89	-8.25
6	3.59700	10.02	31.40	27.71	41.42	37.73	56.00	46.00	-14.58	-8.27

**REMARKS:** The emission levels of other frequencies were very low against the limit.



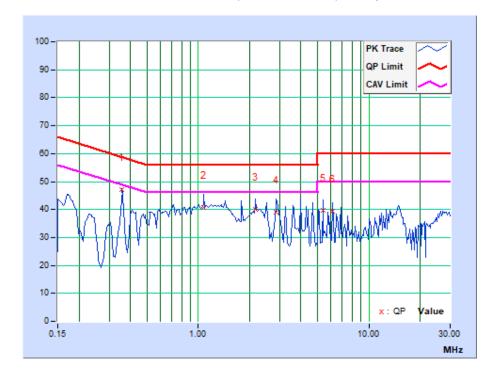
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TEST MODE	Mode B	6DB BANDWIDTH	9 kHz
TEST VOLTAGE	AC 120V 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	25deg. C, 52% RH	TESTED BY	Summer
PSU	Chenyang	TEST DATE	2024-12-20

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No.	o. Factor		[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.35700	9.69	37.32	30.27	47.01	39.96	58.80	48.80	-11.79	-8.84
2	1.07700	9.72	30.86	24.17	40.58	33.89	56.00	46.00	-15.42	-12.11
3	2.15925	9.81	30.21	24.75	40.02	34.56	56.00	46.00	-15.98	-11.44
4	2.87700	9.85	29.26	23.82	39.11	33.67	56.00	46.00	-16.89	-12.33
5	5.39700	10.00	29.84	26.70	39.84	36.70	60.00	50.00	-20.16	-13.30
6	6.11700	10.05	29.25	26.23	39.30	36.28	60.00	50.00	-20.70	-13.72

**REMARKS:** The emission levels of other frequencies were very low against the limit.



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#### 4.2 ADIATED EMISSION MEASUREMENT

#### 4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

TEST STANDARD: FCC Part 15, Subpart C, Section 15.209

Emissions radiated outside of the specified bands, shall be according to the general radiated limits as following:

FREQUENCIES (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

#### NOTES:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level  $(dBuV/m) = 20 \log Emission level (uV/m)$ .
- 3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.
- 4. The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

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### 4.2.2 TEST INSTRUMENTS

### FREQUENCY 9KHz-30MHz

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR7	101564	Nov. 28, 25
Active Loop Antenna	SCHWARZBECK	FMZB 1519B	1519B-045	Apr. 13, 25
Amplifier	Burgeon	BPA-530	100210	Feb. 21 25
Coaxial RF Cable	Yaohong	Cable below 30MHz	C2310019DG	Jun. 27, 25
Test Software	ADT	ADT_Radiated_V8.7.07	N/A	N/A

**NOTES:** 1. The test was performed in 10m Chamber.

- 2. Equipment are calibrated by calibration laboratory accredited to ISO/IEC 17025 by a mutually recognized Accreditation and all tests are conducted within a valid calibration cycle.
- 3. The FCC Site Registration No. is 749762.

#### FREQUENCY 30MHz-1GHz

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESU40	100449	Oct. 10, 25
Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	9168-554	Dec. 25, 25
Pre-Amplifier	Burgeon	BPA-530	100220	Feb. 21, 25
3m Semi-anechoic Chamber	Burgeon	9m*6m*6m	NSEMC003	May. 20, 25
Coaxial RF Cable(3m Below 1G)		966 below 1GHz	C2310017DG	Jun. 23, 25
Coaxial RF Cable(3m Below 1G)	Yaohong	966 below 1GHz	C2310087DG	Jun. 23, 25
Test software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A

NOTES: 1. The test was performed in 966 Chamber

- 2. Equipment are calibrated by calibration laboratory accredited to ISO/IEC 17025 by a mutually recognized Accreditation and all tests are conducted within a valid calibration cycle.
- 3. The FCC Site Registration No. is 749762.

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### 4.2.3 TEST PROCEDURE

#### < Below 30MHz >

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meters Semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1.3 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

#### $<30MHz\sim1GHz>$

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

#### NOTES:

- 1. The resolution bandwidth of test receiver/spectrum analyzer is 200Hz for Quasi-peak detection (QP/AV) at fundamental frequency 9K-150KHz;
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 9KHz for Quasi-peak detection (QP/AV) at fundamental frequency 150K-30MHz;
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at radiated spurious emission frequency 30MHz-1GHz.

#### 4.2.4 DEVIATION FROM TEST STANDARD

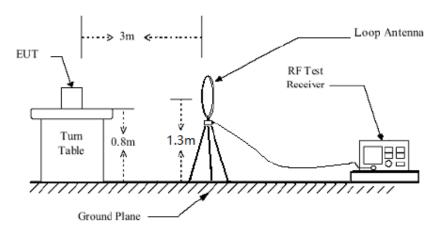
No deviation.

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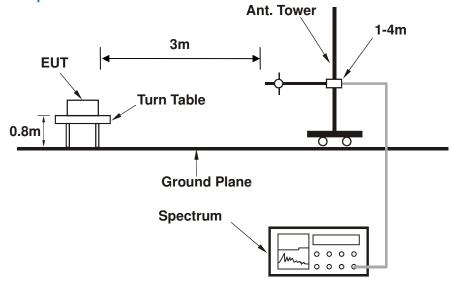


### 4.2.5 TEST SETUP

### **Below 30MHz test setup**



### **Below 1GHz test setup**



Note: For the actual test configuration, please refer to the attached file (Test Setup Photo).

### 4.2.6 EUT OPERATING CONDITIONS

- a. Turn on the EUT.
- b. The EUT tested in charging mode and standby mode respectively.

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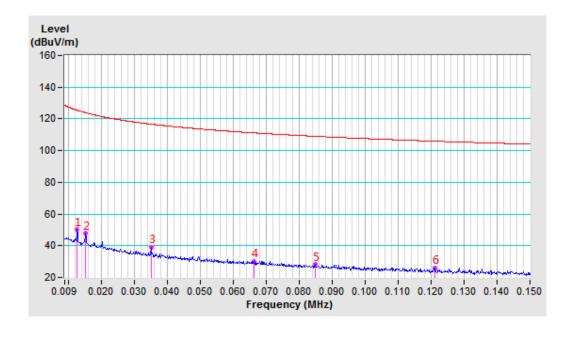


### 4.2.7 TEST RESULTS

### Standby Mode

Test Mode	A	Frequency Range	9 kHz ~ 150 KHz
Test Voltage	AC 120V 60Hz	Detector Function	QP&AV
Environmental Conditions	22deg. C, 53% R	Tested By	Albert
PSU	Chenyang	Test Date	2024-12-20

	ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PARALLEL AT 3m								
No	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	
1	0.0128 AV	-10.38	60.65	50.27	125.46	-75.19	130	181	
2	0.0154 AV	-10.55	58.17	47.62	123.86	-76.24	130	4	
3	0.0352 AV	-11.55	50.66	39.11	116.66	-77.55	130	236	
4	0.0663AV	-11.59	41.90	30.31	111.18	-80.87	130	330	
5	0.0848 AV	-11.54	39.66	28.12	109.03	-80.91	130	220	
6	0.1212 AV	-11.42	37.46	26.04	105.93	-79.89	130	67	

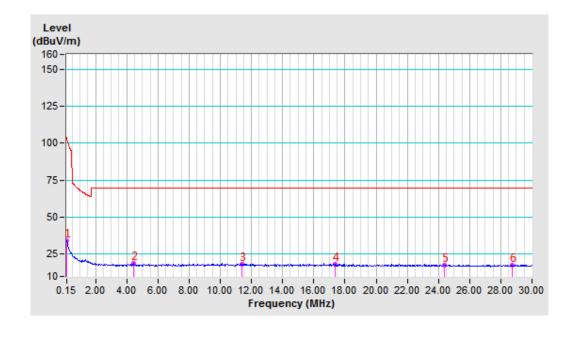


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Test Mode	A	Frequency Range	150 kHz ~ 30 MHz
Test Voltage	AC 120V 60Hz	Detector Function	QP&AV
Environmental Conditions	22deg. C, 53% R	Tested By	Albert
PSU	Chenyang	Test Date	2024-12-20

	ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PARALLEL AT 3m								
No	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	
1	0.1560 AV	-11.34	45.34	34.00	103.74	-69.74	130	192	
2	4.4412 QP	-11.23	30.38	19.15	69.54	-50.39	130	66	
3	11.4010 QP	-10.90	29.48	18.58	69.54	-50.96	130	126	
4	17.3460 QP	-10.41	28.65	18.24	69.54	-51.30	130	225	
5	24.3819 QP	-10.19	28.10	17.91	69.54	-51.63	130	204	
6	28.7447 QP	-10.07	27.87	17.80	69.54	-51.74	130	360	

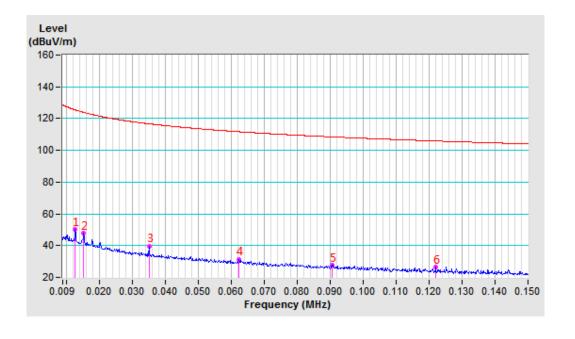


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Test Mode	А	Frequency Range	9 kHz ~ 150 KHz
Test Voltage	AC 120V 60Hz	Detector Function	QP&AV
Environmental Conditions	22deg. C, 53% R	Tested By	Albert
PSU	Chenyang	Test Date	2024-12-20

	ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PERPENDICULAR AT 3m								
No	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	
1	0.0128 AV	-10.38	60.51	50.13	125.44	-75.31	130	7	
2	0.0154 AV	-10.55	58.32	47.77	123.86	-76.09	130	162	
3	0.0352 AV	-11.55	51.20	39.65	116.66	-77.01	130	190	
4	0.0623AV	-11.60	43.05	31.45	111.72	-80.27	130	162	
5	0.0906 QP	-11.52	38.99	27.47	108.46	-80.99	130	17	
6	0.1220 AV	-11.42	37.83	26.41	105.87	-79.46	130	180	

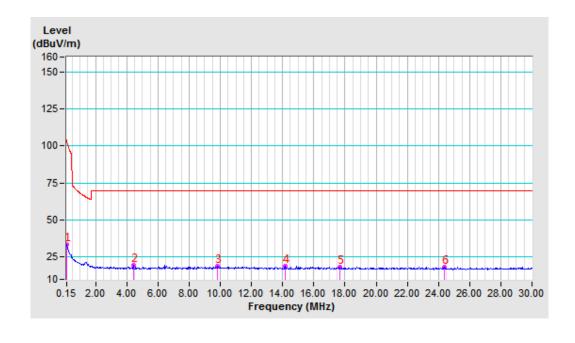


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Test Mode	A	Frequency Range	150 kHz ~ 30 MHz
Test Voltage	AC 120V 60Hz	Detector Function	QP&AV
Environmental Conditions	22deg. C, 53% R	Tested By	Albert
PSU	Chenyang	Test Date	2024-12-20

	ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PERPENDICULAR AT 3m									
No	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)		
1	0.1754 QP	-11.37	45.08	33.71	102.72	-69.01	130	190		
2	4.4412 QP	-11.23	30.74	19.51	69.54	-50.03	130	340		
3	9.8293 QP	-10.88	29.77	18.89	69.54	-50.65	130	360		
4	14.1742 QP	-10.64	29.33	18.69	69.54	-50.85	130	53		
5	17.6743 QP	-10.40	28.55	18.15	69.54	-51.39	130	360		
6	24.3864 QP	-10.19	28.23	18.04	69.54	-51.50	130	68		



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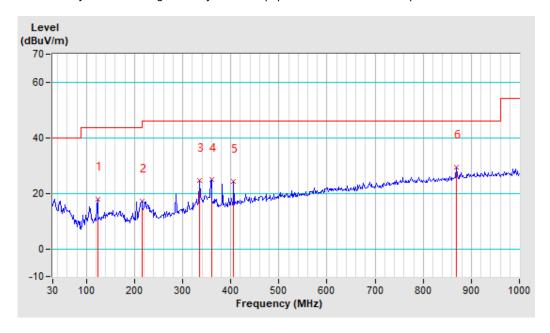


Test Mode	А	Frequency Range	30MHz ~ 1000MHz
Test Voltage	AC 120V 60Hz	Detector Function	Quasi-Peak (QP)
Environmental Conditions	27deg. C, 58% RH	Tested By	Ludius
PSU	Chenyang	Test Date	2024-12-23

	Antenna Polarity & Test Distance: Horizontal At 3m								
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	
1	123.27	-19.39	37.23	17.84	43.50	-25.66	185	144	
2	214.98	-18.99	36.11	17.12	43.50	-26.38	202	295	
3	334.68	-14.57	39.17	24.60	46.00	-21.40	155	322	
4	359.55	-13.95	38.74	24.79	46.00	-21.21	169	358	
5	406.19	-12.62	36.83	24.21	46.00	-21.79	100	342	
6	869.42	-3.53	32.80	29.27	46.00	-16.73	226	326	

**REMARKS:** 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.

- 2. Negative sign (-) in the margin column signify levels below the limit.
- 3. Frequency range scanned: 30-1000MHz.
- 4. Only emissions significantly above equipment noise floor are reported.



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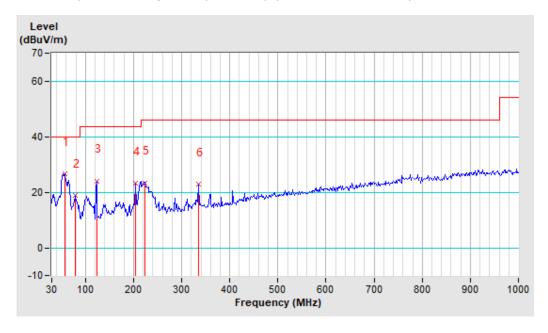


Test Mode	A	Frequency Range	30MHz ~ 1000MHz
Test Voltage	AC 120V 60Hz	Detector Function	Quasi-Peak (QP)
Environmental Conditions	25deg. C, 55% RH	Tested By	Ludius
PSU	Chenyang	Test Date	2024-12-23

	Antenna Polarity & Test Distance: Vertical At 3m							
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	56.43	-17.64	44.16	26.52	40.00	-13.48	117	343
2	79.74	-22.29	40.95	18.66	40.00	-21.34	179	281
3	123.27	-19.39	43.24	23.85	43.50	-19.65	130	330
4	204.10	-19.51	42.58	23.07	43.50	-20.43	196	265
5	224.31	-18.55	41.79	23.24	46.00	-22.76	102	359
6	334.68	-14.57	37.32	22.75	46.00	-23.25	145	316

**REMARKS:** 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.

- 2. Negative sign (-) in the margin column signify levels below the limit.
- 3. Frequency range scanned: 30-1000MHz.
- 4. Only emissions significantly above equipment noise floor are reported.



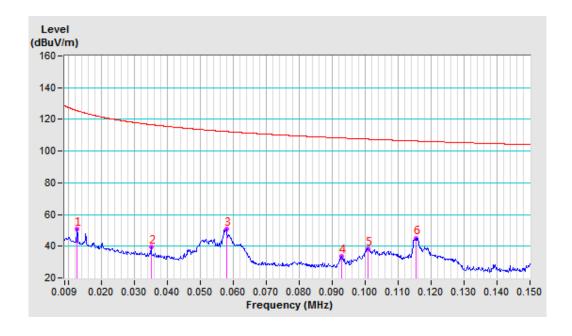
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### **Charging Mode**

Test Mode	В	Frequency Range	9 kHz ~ 150 KHz
Test Voltage	AC 120V 60Hz	Detector Function	QP&AV
Environmental Conditions	22deg. C, 53% R	Tested By	Albert
PSU	Chenyang	Test Date	2024-12-20

	ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PARALLEL AT 3m							
No	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	0.0128 AV	-10.38	61.09	50.71	125.45	-74.74	130	16
2	0.0352 AV	-11.55	51.09	39.54	116.66	-77.12	130	291
3	0.0580 AV	-11.61	62.45	50.84	112.33	-61.49	130	186
4	0.0929 QP	-11.51	45.19	33.68	108.24	-74.56	130	0
5	0.1009 QP	-11.49	49.86	38.37	107.52	-69.15	130	187
6	0.1154 AV	-11.44	56.41	44.97	106.36	-61.39	130	179

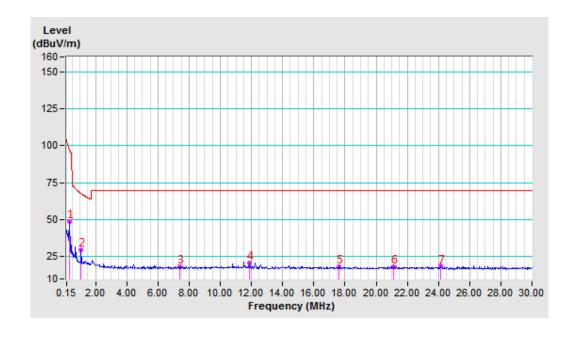


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Test Mode	В	Frequency Range	150 kHz ~ 30 MHz
Test Voltage	AC 120V 60Hz	Detector Function	QP&AV
Environmental Conditions	22deg. C, 53% R	Tested By	Albert
PSU	Chenyang	Test Date	2024-12-20

	ANTEN	NA POLAF	RITY & TEST	DISTANCE	: LOOP ANT	ENNA PARA	ALLEL AT 3m	ı
No	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	0.3590 AV	-11.40	60.39	48.99	96.50	-47.51	130	350
2	1.0799 QP	-11.44	41.02	29.58	67.57	-37.99	130	1
3	7.4024 QP	-11.02	29.19	18.17	69.54	-51.37	130	10
4	11.8801 QP	-10.91	31.82	20.91	69.54	-48.63	130	34
5	17.6325 QP	-10.40	28.61	18.21	69.54	-51.33	130	279
6	21.1013 QP	-10.36	28.81	18.45	69.54	-51.09	130	352
7	24.1207 QP	-10.18	28.77	18.59	69.54	-50.95	130	251

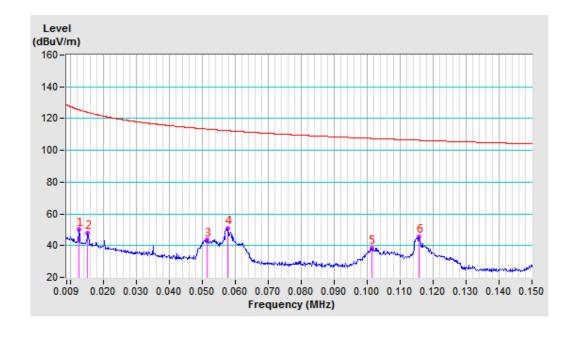


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Test Mode	В	Frequency Range	9 kHz ~ 150 KHz
Test Voltage	AC 120V 60Hz	Detector Function	QP&AV
Environmental Conditions	22deg. C, 53% R	Tested By	Albert
PSU	Chenyang	Test Date	2024-12-20

	ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PERPENDICULAR AT 3m							
No	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	0.0128 AV	-10.38	60.36	49.98	125.44	-75.46	130	185
2	0.0154 AV	-10.55	58.54	47.99	123.88	-75.89	130	17
3	0.0516 AV	-11.63	55.20	43.57	113.34	-69.77	130	154
4	0.0579 AV	-11.61	62.66	51.05	112.35	-61.30	130	178
5	0.1013 QP	-11.49	50.11	38.62	107.49	-68.87	130	187
6	0.1158 AV	-11.44	57.11	45.67	106.32	-60.65	130	178

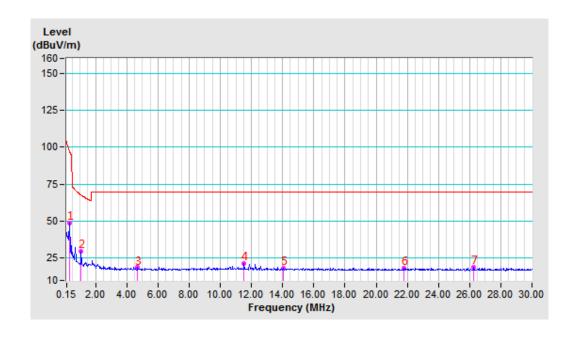


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Test Mode	В	Frequency Range	150 kHz ~ 30 MHz
Test Voltage	AC 120V 60Hz	Detector Function	QP&AV
Environmental Conditions	22deg. C, 53% R	Tested By	Albert
PSU	Chenyang	Test Date	2024-12-20

	ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PERPENDICULAR AT 3m							
No	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	0.3590 AV	-11.40	60.36	48.96	96.50	-47.54	130	360
2	1.0799 QP	-11.44	41.11	29.67	67.57	-37.90	130	176
3	4.6800 QP	-11.21	29.85	18.64	69.54	-50.90	130	95
4	11.5189 QP	-10.91	32.29	21.38	69.54	-48.16	130	308
5	14.0429 QP	-10.65	29.00	18.35	69.54	-51.19	130	87
6	21.7893 QP	-10.31	28.67	18.36	69.54	-51.18	130	351
7	26.2805 QP	-10.22	29.02	18.80	69.54	-50.74	130	280



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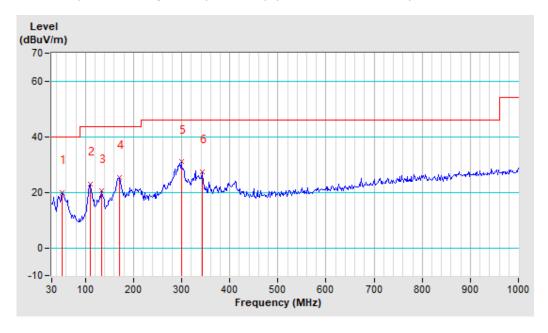


Test Mode	В	Frequency Range	30MHz ~ 1000MHz
Test Voltage	AC 120V 60Hz	Detector Function	Quasi-Peak (QP)
Environmental Conditions	25deg. C, 55% RH	Tested By	Ludius
PSU	Aohai	Test Date	2024-12-23

Antenna Polarity & Test Distance: Horizontal At 3m								
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	51.76	-17.66	37.49	19.83	40.00	-20.17	168	279
2	109.28	-20.70	43.58	22.88	43.50	-20.62	152	295
3	134.15	-18.01	38.40	20.39	43.50	-23.11	138	309
4	169.90	-17.40	42.80	25.40	43.50	-18.10	121	325
5	298.93	-15.42	46.32	30.90	46.00	-15.10	107	340
6	342.45	-14.38	41.64	27.26	46.00	-18.74	185	262

**REMARKS:** 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.

- 2. Negative sign (-) in the margin column signify levels below the limit.
- 3. Frequency range scanned: 30-1000MHz.
- 4. Only emissions significantly above equipment noise floor are reported.



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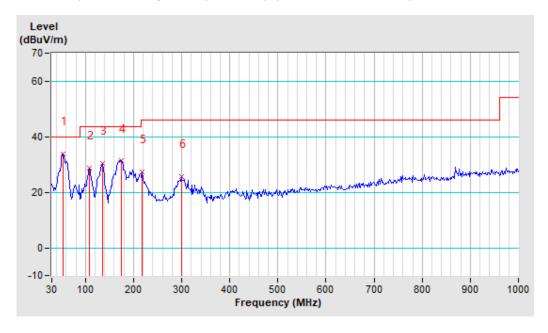


Test Mode	В	Frequency Range	30MHz ~ 1000MHz
Test Voltage	AC 120V 60Hz	Detector Function	Quasi-Peak (QP)
Environmental Conditions	25deg. C, 55% RH	Tested By	Ludius
PSU	Aohai	Test Date	2024-12-23

	Antenna Polarity & Test Distance: Vertical At 3m							
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	53.32	-17.61	51.31	33.70	40.00	-6.30	158	285
2	107.72	-20.86	49.51	28.65	43.50	-14.85	180	263
3	135.71	-17.83	48.23	30.40	43.50	-13.10	131	312
4	174.57	-17.86	49.11	31.25	43.50	-12.25	196	248
5	218.09	-18.84	46.27	27.43	46.00	-18.57	236	208
6	298.93	-15.42	40.95	25.53	46.00	-20.47	216	228

**REMARKS:** 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.

- 2. Negative sign (-) in the margin column signify levels below the limit.
- 3. Frequency range scanned: 30-1000MHz.
- 4. Only emissions significantly above equipment noise floor are reported.



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### 4.3 20dB BANDWIDTH MEASUREMENT

#### 4.3.1 LIMITS OF 20dB BANDWIDTH MEASUREMENT

The field strength of any emissions appearing between the band edges and out of band shall be attenuated at least 20 dB below the level of the unmodulated carrier or to the general limits in Section 15.209.

#### 4.3.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
Power Sensor	Keysight	U2021XA	MY57320002	Apr. 07, 25
Digital Multimeter	FLUKE	15B	A1220010DG	N/A
Humid & Temp Programmable Tester	Haida	HD-225T	110807201	Oct. 10, 25
Oscilloscope	Agilent	DSO9254A	MY51260160	Jul. 07, 25
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV40	101094	Oct. 09, 25
Signal Generator	Agilent	N5183A	MY50140980	Jul. 11, 25
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY56200288	Jul. 11, 25
BLUETOOTH TESTER	Rohde&Schwarz	CBT32	100811	N/A
Attenuator	MINI	BW-S10W2+	S130129FGE2	N/A
DC Source	Keysight	E3642A	MY56146098	N/A
Test software	ADT	ADT_RF Test Software V6.6.5.3	N/A	N/A

**NOTES:** 1. Equipment are calibrated by calibration laboratory accredited to ISO/IEC 17025 by a mutually recognized Accreditation and all tests are conducted within a valid calibration cycle.

2. The test was performed in RF Oven room.

### 4.3.3 TEST PROCEDURE

- a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- c. Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.
- d. Repeat above procedures until all frequencies measured were complete.

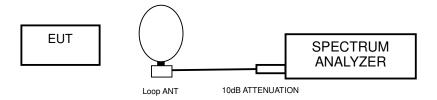
Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch No. 96, Guantai Road (Houjie Section), Houjie Town, Dongguan City, Guangdong Province. 523942. People's Republic of China. Tel: +86 769 8998 2098 Fax: +86 769 8593 1080



### 4.3.4 DEVIATION FROM TEST STANDARD

No deviation.

### 4.3.5 TEST SETUP



### 4.3.6 EUT OPERATING CONDITION

- a. Turn on the EUT.
- b. The EUT tested in charging mode and standby mode respectively.

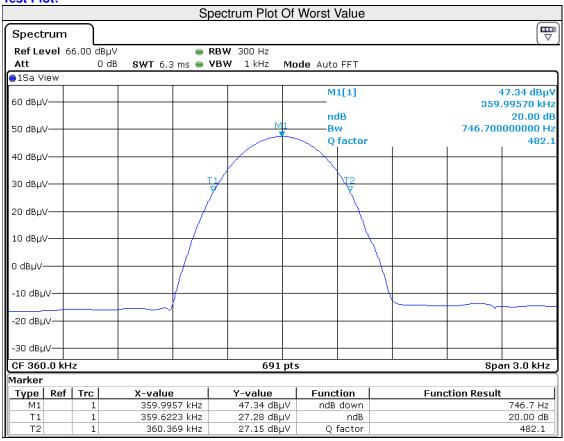
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### 4.3.7 TEST RESULTS

Test Mode	Frequency (kHz)	20dB Bandwidth (Hz)
В	360	746.7

#### **Test Plot:**



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### 5 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).

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# 6 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications were made to the EUT by the lab during the test.

---END---

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