

## **FCC TEST REPORT**

## Client Information:

Applicant: LeadingPlus Electronic Co.,Ltd

Applicant add.: RM337,3/F B Block, JieMeiKang Creative Industry Park, Donghuan 2nd Road

No.57, Longhua Dist., Shenzhen China

Manufacturer: LeadingPlus Electronic Co.,Ltd

Manufacturer add.: RM337,3/F B Block, JieMeiKang Creative Industry Park, Donghuan 2nd Road

No.57, Longhua Dist., Shenzhen China

**Product Information:** 

Product Name: Wireless Charger

Model No.: MI-QIS10-199M, LP-WL07, LP-WC01, LP-WC02, LP-WC06, LP-WC12

Brand Name: N/A

FCC ID: 2APTY-QIS10

Applicable standards: FCC CFR Title 47 Part 15 Subpart C

Prepared By:

Dongguan Yaxu (AiT) Technology Limited

No.22, Jinqianling 3rd Street, Jitigang, Huangjiang, Dongguan,

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Date of Receipt: July 07, 2023 Date of Test: July 07, 2023~ July 10, 2023

Date of Issue: July 11, 2023 Test Result: Pass

This device described above has been tested by Dongguan Yaxu (AiT) Technology Limited 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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Reviewed by:

Simba Huang

Approved by:

Seal.chen

Report No.: AIT23070718FW1

Dongguan Yaxu (AiT) Technology Limited No.22, Jinqianling Third Street, Jitigang, Huangjiang, Dongguan, Guangdong, China.



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## **Revision History**

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Revision	Issue Date	Revisions	Revised By
000	July 11, 2023	Initial Issue	Seal Chen



2 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emission	15.207	Pass
Spurious Emission	15.209(a)(f)	Pass
20dB Bandwidth	15.215	Pass

#### Note

- 1. Test according to ANSI C63.10:2013.
- 2. The measurement uncertainty is not included in the test result.
- 3. Test results in other test report (RF Exposure Evaluation Report)

## 2.1 Statement of the Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the AiT quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

## 2.2 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	0.009MHz-30MHz	3.10dB	(1)
Radiated Emission	30MHz-1GHz	3.75dB	(1)
Radiated Emission	1GHz-18GHz	3.88dB	(1)
Radiated Emission	18GHz-40GHz	3.88dB	(1)
AC Power Line Conducted	0.15MHz ~ 30MHz	1.20dB	(1)
Emission	0.15WH2 ~ 30WH2	1.2005	(1)
Note (1): The measurement un	certainty is for coverage factor	of k=2 and a level of confidence	e of 95%.



## 3 Test Facility

# The test facility is recognized, certified or accredited by the following organizations: .CNAS- Registration No: L6177

Dongguan Yaxu (AiT) technology Limited is accredited to ISO/IEC 17025:2017 general Requirements for the competence of testing and calibration laboratories (CNAS-CL01 Accreditation Criteria for the competence of testing and calibration laboratories) on April 18, 2022

#### FCC-Registration No.: 703111 Designation Number: CN1313

Dongguan Yaxu (AiT) technology Limited 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.

#### IC —Registration No.: 6819A CAB identifier: CN0122

The 3m Semi-anechoic chamber of Dongguan Yaxu (AiT) technology Limited has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 6819A

#### A2LA-Lab Cert. No.: 6317.01

Dongguan Yaxu (AiT) technology Limited has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

#### 3.1 Deviation from standard

None

#### 3.2 Abnormalities from standard conditions

None

#### 3.3 Test Location

#### Dongguan Yaxu (AiT) Technology Limited

Address: No.22, Jinqianling 3rd Street, Jitigang, Huangjiang, Dongguan, Guangdong, China

Tel.: +86-769-8202 0499 Fax.: +86-769-8202 0495



## 4 General Information

EUT Name:	Wireless Charger
Model No:	MI-QIS10-199M
Serial Model:	LP-WL07, LP-WC01, LP-WC02, LP-WC06, LP-WC12
Test sample(s) ID:	23070718
Sample(s) Status:	Engineer sample
Serial No.:	N/A
On and in a few many	For phone/headphone: 113kHz-205kHz
Operation frequency:	For watch: 300kHz-350kHz
Modulation Technology:	ASK
Antenna Type:	loop coil Antenna
Antenna gain:	0dBi
Hardware version.:	N/A
Software version.:	N/A
Davisa	Input:DC9V2A,12V2A
Power supply:	Output:5W/7.5W/10W/15W(phone), 5W/3W(Airpods), 2W(Apple Watch)
Model different:	PCB board, structure and internal of these model(s) are the same, So no
iviouel dillerent.	additional models were tested.
Note:	For a more detailed features description, please refer to the manufacturer's
NOIG.	specifications or the User's Manual.



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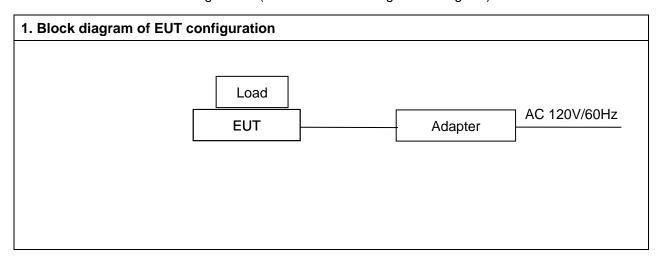
#### 4.1 EUT Test Mode

Equipment under test was operated during the measurement under the following conditions:

Test Mode	Description	
Mode 1	AC Adapter + EUT + Mobile phone+ Earphone+ Watch	Record
Mode 2	AC Adapter + EUT + Mobile phone+ Earphone	Pre-tested
Mode 3	AC Adapter + EUT + Mobile phone+Watch	Pre-tested
Mode 4	AC Adapter + EUT + Earphone +Watch	Pre-tested
Mode 5	AC Adapter + EUT + Mobile phone	Pre-tested
Mode 6	AC Adapter + EUT + Earphone	Pre-tested
Mode 7	AC Adapter + EUT + Watch	Pre-tested
Mode 8	Test the EUT in idle mode.	Pre-tested
Note: All test i	modes were pre-tested, but we only recorded the worst case in this report.	

## 4.2 Description of Test setup

EUT was tested in normal configuration (Please See following Block diagram)





## 4.3 Peripheral List

N o.	Equipment	Manufacturer	Model No.	Serial No.	Power cord	signal cable
1	Adapter	HNT	HNT-QC530	N/A	N/A	N/A
2	Mobile Iphone	XIAOMI	MI 11	N/A	N/A	N/A
3	Airpod	Apple	Airpod 3	N/A	N/A	N/A
4	Watch	Apple	S6	N/A	N/A	N/A

## 4.4 EUT Peripheral List

No	. Equipment	Manufacturer	EMC Compliance	Model No.	Serial No.	Power cord	signal cable
1	Adapter	HNT	N/A	HNT-QC530	N/A	N/A	N/A



5 Equipments List for All Test Items

No	Test Equipment	Manufacturer	Model No	Serial No	Cal. Date	Cal. Due Date
1	Spectrum Analyzer	R&S	FSV40	101470	2022.09.02	2023.09.01
2	EMI Measuring Receiver	R&S	ESR	101660	2022.09.02	2023.09.01
3	Low Noise Pre Amplifier	HP	HP8447E	1937A01855	2022.09.02	2023.09.01
4	Low Noise Pre Amplifier	Tsj	MLA-0120-A02- 34	2648A04738	2022.09.02	2023.09.01
5	Passive Loop	ETS	6512	00165355	2022.09.04	2024.09.03
6	TRILOG Super Broadband test Antenna	SCHWARZBECK	VULB9160	9160-3206	2021.08.29	2024.08.28
7	Broadband Horn Antenna	SCHWARZBECK	BBHA9120D	452	2021.08.29	2024.08.28
8	SHF-EHF Horn Antenna 15-40GHz	SCHWARZBECK	BBHA9170	BBHA917036 7d	2020.11.24	2023.11.23
9	EMI Test Receiver	R&S	ESCI	100124	2022.09.02	2023.09.01
10	LISN	Kyoritsu	KNW-242	8-837-4	2022.09.02	2023.09.01
11	LISN	R&S	ESH3-Z2	0357.8810.54- 101161-S2	2022.09.02	2023.09.01
12	Pro.Temp&Humi.chamber	MENTEK	MHP-150-1C	MAA0811250 1	2022.09.02	2023.09.01
13	RF Automatic Test system	MW	MW100-RFCB	21033016	2022.09.02	2023.09.01
14	Signal Generator	Agilent	N5182A	MY50143009	2022.09.02	2023.09.01
15	Wideband Radio communication tester	R&S	CMW500	1201.0002K5 0	2022.09.02	2023.09.01
16	RF Automatic Test system	MW	MW100-RFCB	21033016	2022.09.02	2023.09.01
17	DC power supply	ZHAOXIN	RXN-305D-2	2807000255 9	N/A	N/A
18	RE Software	EZ	EZ-EMC_RE	Ver.AIT-03A	N/A	N/A
19	CE Software	EZ	EZ-EMC_CE	Ver.AIT-03A	N/A	N/A
20	RF Software	MW	MTS 8310	2.0.0.0	N/A	N/A
21	temporary antenna connector(Note)	NTS	R001	N/A	N/A	N/A



## 6 CONDUCTED EMISSION TEST

#### 6.1 CONDUCTED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10:2013
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

#### 6.2 POWER LINE CONDUCTED EMISSION Limits

FREQUENCY (MHz)	Limit (d	Standard	
FREQUENCY (MIDZ)	Quas -peak	Average	Standard
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

(1) \*Decreases with the logarithm of the frequency.

#### **6.3 TEST PROCEDURE**

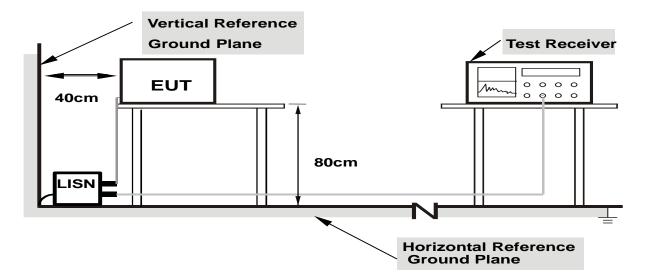
- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. 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.
- c. 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.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

#### 6.4 DEVIATION FROM TEST STANDARD

No deviation



#### 6.5 TEST SETUP



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

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

#### 6.6 EUT OPERATING CONDITIONS

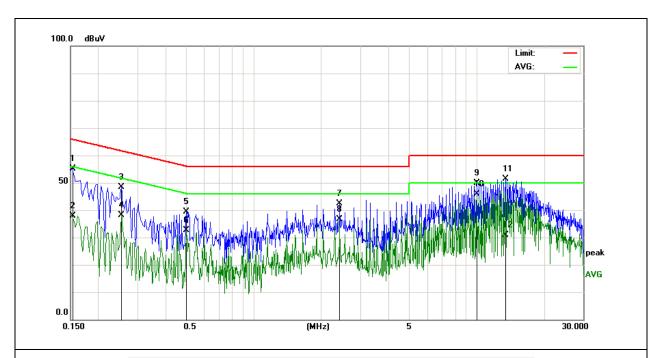
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

We pretest AC 120V and AC 230V, the worst voltage was AC 120V and the data recording in the report.



## 6.7 Test Result

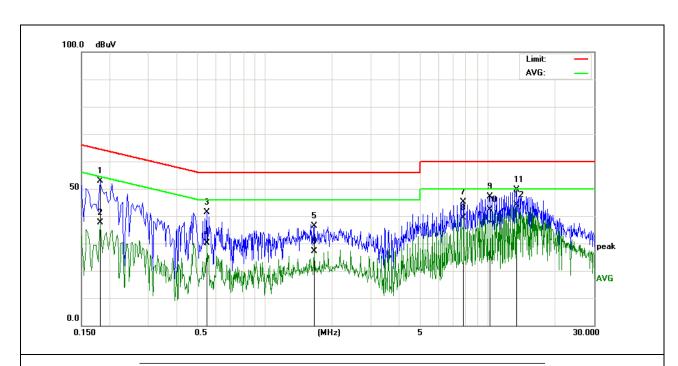
Temperature:	25.5℃	Relative Humidity:	52.3%
Pressure:	101kPa	Phase :	L
Test Voltage:	AC 120V/60Hz		



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	0.1539	43.30	11.84	55.14	65.78	-10.64	QP
2	0.1539	25.99	11.84	37.83	55.78	-17.95	AVG
3	0.2540	37.52	10.88	48.40	61.62	-13.22	QP
4	0.2540	27.28	10.88	38.16	51.62	-13.46	AVG
5	0.4980	29.42	10.01	39.43	56.03	-16.60	QP
6	0.4980	22.58	10.01	32.59	46.03	-13.44	AVG
7	2.4300	32.46	10.01	42.47	56.00	-13.53	QP
8	2.4300	26.59	10.01	36.60	46.00	-9.40	AVG
9	9.9740	39.60	10.24	49.84	60.00	-10.16	QP
10 *	9.9740	35.60	10.24	45.84	50.00	-4.16	AVG
11	13.4180	40.92	10.37	51.29	60.00	-8.71	QP
12	13.4180	20.53	10.37	30.90	50.00	-19.10	AVG



Temperature:	25.5℃	Relative Humidity:	52.3%
Pressure:	101kPa	Phase :	Ν
Test Voltage:	AC 120V/60Hz		



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	0.1819	41.46	11.36	52.82	64.39	-11.57	QP
2	0.1819	26.38	11.36	37.74	54.39	-16.65	AVG
3	0.5500	31.50	10.00	41.50	56.00	-14.50	QP
4	0.5500	20.06	10.00	30.06	46.00	-15.94	AVG
5	1.6660	26.37	9.97	36.34	56.00	-19.66	QP
6	1.6660	17.24	9.97	27.21	46.00	-18.79	AVG
7	7.8100	35.00	10.19	45.19	60.00	-14.81	QP
8	7.8100	29.07	10.19	39.26	50.00	-10.74	AVG
9	10.2420	36.96	10.27	47.23	60.00	-12.77	QP
10	10.2420	32.04	10.27	42.31	50.00	-7.69	AVG
11	13.4380	39.19	10.37	49.56	60.00	-10.44	QP
12 *	13.4380	33.70	10.37	44.07	50.00	-5.93	AVG

#### Notes:

- 1.An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3.Mesurement Level = Reading level + Correct Factor



## 7 RADIATED EMISSION MEASUREMENT

FCC Part15 C Section 15.209							
ANSI C63.10:2013	ANSI C63.10:2013						
9kHz to 1GHz	9kHz to 1GHz						
Measurement Dista	Measurement Distance: 3m						
Frequency	Detector	RBW	VBW	Value			
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak			
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak			
30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak			
Above 10Hz	Peak	1MHz	3MHz	Peak			
Above 1GHZ	Peak	1MHz	10Hz	Average			
	ANSI C63.10:2013  9kHz to 1GHz  Measurement Dista  Frequency  9KHz-150KHz  150KHz-30MHz	ANSI C63.10:2013  9kHz to 1GHz  Measurement Distance: 3m  Frequency Detector  9KHz-150KHz Quasi-peak  150KHz-30MHz Quasi-peak  30MHz-1GHz Quasi-peak  Above 1GHz	ANSI C63.10:2013  9kHz to 1GHz  Measurement Distance: 3m  Frequency Detector RBW  9KHz-150KHz Quasi-peak 200Hz  150KHz-30MHz Quasi-peak 9KHz  30MHz-1GHz Quasi-peak 100KHz  Above 1GHz	ANSI C63.10:2013  9kHz to 1GHz  Measurement Distance: 3m  Frequency Detector RBW VBW  9KHz-150KHz Quasi-peak 200Hz 600Hz  150KHz-30MHz Quasi-peak 9KHz 30KHz  30MHz-1GHz Quasi-peak 100KHz 300KHz  Above 1GHz			

## 7.1 Radiated Emission Limits

#### Limits for frequency below 30MHz

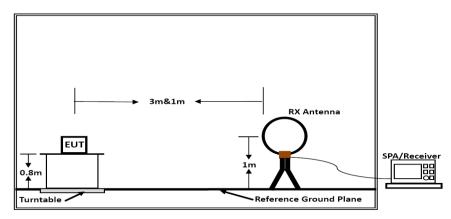
Frequency	Limit (uV/m)	Measurement Distance(m)	Remark
0.009-0.490	2400/F(kHz)	300	Quasi-peak Value
0.490-1.705	24000/F(kHz)	30	Quasi-peak Value
1.705-30	30	30	Quasi-peak Value

## **Limits for frequency Above 30MHz**

Frequency	Limit (dBuV/m @3m)	Remark
30MHz-88MHz	40.00	Quasi-peak Value
88MHz-216MHz	43.50	Quasi-peak Value
216MHz-960MHz	46.00	Quasi-peak Value
960MHz-1GHz	54.00	Quasi-peak Value
	54.00	Average Value
Above 1GHz	74.00	Peak Value

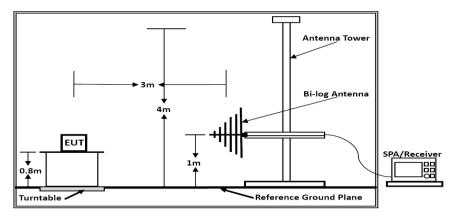
### 7.2 Anechoic Chamber Test Setup Diagram

#### (A) Radiated Emission Test-Up Frequency Below 30MHz



Below 30MHz

#### (B) Radiated Emission Test-Up Frequency 30MHz~1GHz



Below 1GHz

The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209 and FCC 15.205 limits.

#### 7.3 Test Procedure

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna (calibrated by dipole antenna) are used as a receiving antenna. Both horizontal and vertical polarization of the antenna are set on measurement.

#### 7.4 DEVIATION FROM TEST STANDARD

No deviation



#### 7.5 Test Result

We pretest AC 120V and AC 230V in full load, half load and no load, the worst voltage was AC 120V in full load and the data recording in the report.

Measurement data:

Note: Limit dBuV/m @3m = Limit dBuV/m @300m+ 80

Limit dBuV/m @3m = Limit dBuV/m @30m + 40

Mode1:

9 kHz~30 MHz

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
0.0546	11.50	48.50	60.00	112.7	-52.75	Quasi-Peak
0.1207	35.65	40.72	76.37	105.9	-29.53	Peak
0.1207	22.42	40.72	63.14	105.9	-42.76	Average
0.4989	20.07	30.57	50.64	73.64	-23.00	Quasi-Peak
1.0696	18.19	25.75	43.94	67.04	-23.10	Quasi-Peak
3.1206	24.50	17.84	42.34	69.50	-27.16	Quasi-Peak
7.9964	20.10	14.34	34.44	69.50	-35.06	Quasi-Peak

## Note:

Pre-scan in the all of mode, the worst case in of was recorded.

Factor = antenna factor + cable loss - pre-amplifier.

Margin = Emission Level- Limit.



#### Mode7:

#### 9 kHz~30 MHz

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
0.0675	14.29	45.05	59.34	110.9	-51.58	Quasi-Peak
0.325	43.47	33.59	77.06	97.34	-20.28	Peak
0.3250	25.90	33.59	59.49	97.34	-37.85	Average
1.0524	15.83	25.81	41.64	67.18	-25.54	Quasi-Peak
2.2743	22.65	20.99	43.64	69.50	-25.86	Quasi-Peak
8.5325	15.68	14.15	29.83	69.50	-39.67	Quasi-Peak
24.0990	21.42	13.22	34.64	69.50	-34.86	Quasi-Peak

#### Note:

Pre-scan in the all of mode, the worst case in of was recorded.

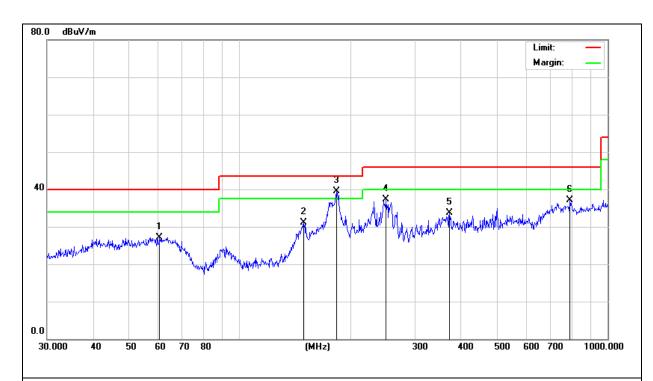
Factor = antenna factor + cable loss – pre-amplifier.

Margin = Emission Level- Limit.



#### 30MHz-1GHz

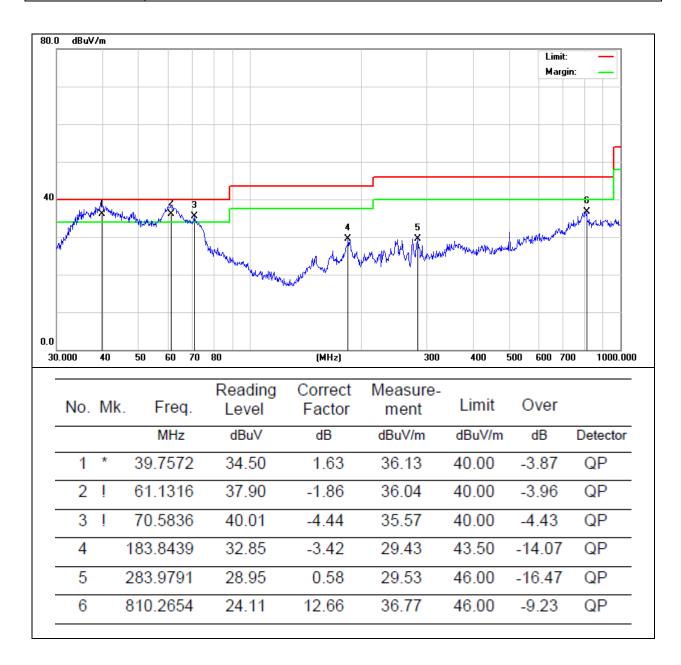
Temperature:	25.5℃	Relative Humidity:	52.3%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		60.7044	28.35	-1.25	27.10	40.00	-12.90	QP
2	1	149.4857	31.97	-0.83	31.14	43.50	-12.36	QP
3	* 1	183.2005	38.77	0.70	39.47	43.50	-4.03	QP
4	2	250.3012	37.65	-0.31	37.34	46.00	-8.66	QP
5	3	372.0045	29.63	4.09	33.72	46.00	-12.28	QP
6	7	790.6188	24.21	12.85	37.06	46.00	-8.94	QP



Temperature:	25.5℃	Relative Humidity:	52.3%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz		



### Remarks:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.

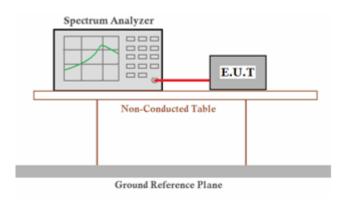


## 8 BANDWIDTH TEST

#### 8.1 Test Procedure

- 1. Set RBW = 3 kHz.
- 2. Set the video bandwidth (VBW)  $\geq$  3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

## 8.2 Test setup

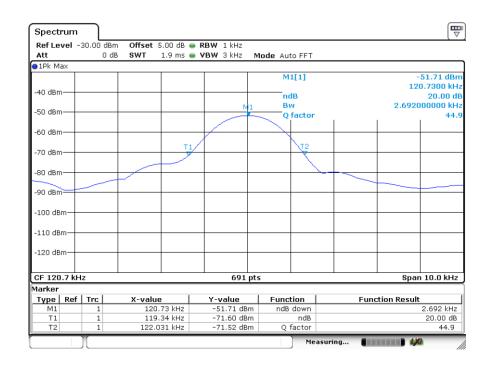




Smart Phone:

Temperature:	20 ℃	Relative Humidity:	44%
Pressure:	101kPa		

Frequency	20dB bandwidth	99% bandwidth	Result
(KHz)	(KHz)	(KHz)	
120.7	2.692	-	Pass

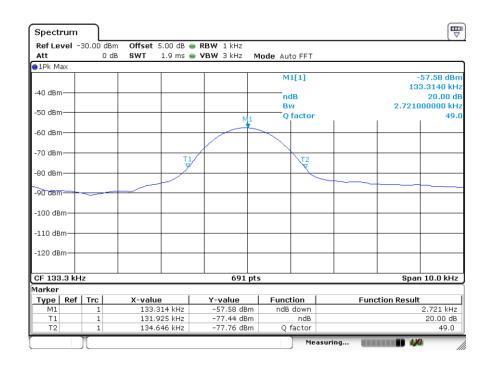




Earphones:

Temperature:	20 ℃	Relative Humidity:	44%
Pressure:	101kPa		

Frequency	20dB bandwidth	99% bandwidth	Result
(KHz)	(KHz)	(KHz)	
133.3	2.721	•	Pass

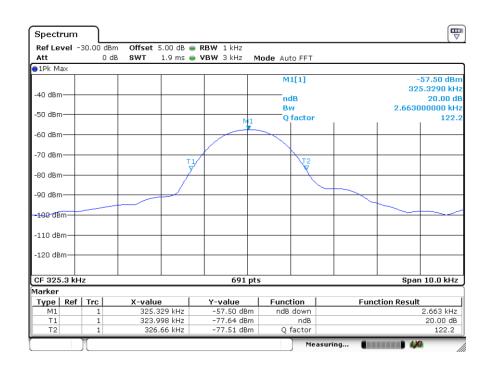




Smart Watch:

Temperature:	20 °C	Relative Humidity:	44%
Pressure:	101kPa		

Frequency	20dB bandwidth	99% bandwidth	Result
(KHz)	(KHz)	(KHz)	
325.3	2.663	•	Pass





## 9 ANTENNA REQUIREMENT:

**Standard requirement:** FCC Part15 C 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### **EUT Antenna:**

The antenna is Inductive loop coil Antenna, the best case gain of the antenna is 0dBi, reference to the appendix for details.



## 10 Test Setup Photographs of EUT

Please refer to separated files for Test Setup Photos of the EUT.

## 11 External Photographs of EUT

Please refer to separated files for External Photos of the EUT.

## 12 Internal Photographs of EUT

Please refer to separated files for Internal Photos of the EUT.

\*\* End of report \*\*