

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao' an District, Shenzhen, China

FCC PART 15 SUBPART C TEST REPORT

Compiled by

(position+printed name+signature)..: File administrators Kevin Liu

Supervised by

(position+printed name+signature)..: Project Engineer Kevin Liu

Approved by

(position+printed name+signature)..: RF Manager Eric Wang

Date of issue...... Nov. 26, 2021

Testing Laboratory Name Shenzhen CTA Testing Technology Co., Ltd.

Address....... Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community,

Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name Shenzhen Lingchen Electronics Co., Ltd.

Shenzhen, China 518129

Test specification:

Standard FCC Rules and Regulations Part 15 Subpart C (Section 15.209),

ANSI C63.10: 2013

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Test item description MagMini Magnetic Wireless Charger

Trade Mark: LICHEERS

Manufacturer Shenzhen Lingchen Electronics Co., Ltd.

Model/Type reference...... LC-479

Listed Models LC-499,LC-500,LC-501,LC-502,LC-503,LC-504,LC-505,LC-A2

Modulation Type: ASK

Operation Frequency...... From 110KHz~205KHz

Rating Input: DC 5V/2A,9V/2.2A,12V/2A

Output: Wireless Charging: 15W(Max)

Result..... PASS

Shenzhen CTA Testing Technology Co., Ltd.

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TEST REPORT

CTA TESTING MagMini Magnetic Wireless Charger **Equipment under Test**

Model /Type LC-479

LC-499,LC-500,LC-501,LC-502,LC-503,LC-504,LC-505,LC-A2 **Listed Models**

PCB board, structure and internal of these model(s) are the same, Model Declaration

So no additional models were tested.

Applicant Shenzhen Lingchen Electronics Co., Ltd.

Room 1806, Paradise Building A, Bantian Street, Longgang District, Address

Shenzhen, China 518129

Shenzhen Lingchen Electronics Co., Ltd. Manufacturer

Room 1806, Paradise Building A, Bantian Street, Longgang District, Address

Shenzhen, China 518129

C	TING
Test Result:	PASS
	CIA

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory. CTATESTING

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TEST STANDARDS

The tests were performed according to following standards:

FCC Rules and Regulations Part 15 Subpart C (Section 15.207): Conducted limits.

FCC Rules and Regulations Part 15 Subpart C (Section 15.200): Podiate I requirements FCC Rules and Regulations Part 15 Subpart C (Section 15.209): Radiated emission limits; general

ANSI C63.10: 2013: American National Standard for Testing Unlicensed Wireless Devices CTATESTING

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SUMMARY

2.1 General Remarks

2 SUMMARY			
2.1 General Remarks		CTATES!	
Date of receipt of test sample	4:	Nov. 01, 2021	TESTING
Testing commenced on	:	Nov. 01, 2021	CIA
Testing concluded on	:	Nov. 26, 2021	

Product Name:	MagMini Magnetic Wireless Charger
Model/Type reference:	LC-479
Hardware version:	V1.0
Software version:	V1.0
Test samples ID:	CTA211125002-1# (Engineer sample), CTA211125002-2# (Normal sample)
Power supply:	Input: DC 5V/2A,9V/2.2A,12V/2A Output: Wireless Charging: 15W(Max)
Operation frequency:	110KHz - 205KHz
Modulation type:	ASK
Antenna type:	Loop coil antenna

2.3 Description of the test mode

Equipment under test was operated during the measurement under the following conditions: Charging and communication mode

Test	Modes:	
Mod	AC/DC Adapter (5V/2A) + EUT + phone (Battery Status: <1%)	Pre-tested
Mod	AC/DC Adapter (5V/2A) + EUT + phone (Battery Status: <50%)	Pre-tested
Mod	AC/DC Adapter (5V/2A) + EUT + phone (Battery Status: 100%)	Pre-tested
Mod	AC/DC Adapter (9V/2.2A) + EUT + phone (Battery Status: <1%)	Pre-tested
Mod	AC/DC Adapter (9V/2.2A) + EUT + phone (Battery Status: <50%)	Pre-tested
Mod	AC/DC Adapter (9V/2.2A) + EUT + phone (Battery Status: 100%)	Pre-tested
Mod	e 7 AC/DC Adapter (12V/2A) + EUT + phone (Battery Status: <1%)	Record
Mod	AC/DC Adapter (12V/2A) + EUT + phone (Battery Status: <50%)	Record
Mod	AC/DC Adapter (12V/2A) + EUT + phone (Battery Status: 100%)	Record
Note	: All test modes were pre-tested, but we only recorded the worst case in this report.	
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2.4 Special Accessories

Follow auxiliary equipment(s) test with EUT that provided by the manufacturer or laboratory is listed as follow:

Description	Manufacturer	Model	Technical Parameters	Certificate	Provided by
Adapter	PD	V128S	Input: 100-240V~, 50/60Hz, 0.5A Output: 5V===3A	CE/FCC	laboratory
phone	HUAWEI	NOH-AN00	1	FCC/IC	laboratory
/	/	/		/	/ to to

2.5 Modifications

No modifications were implemented to meet testing criteria.

3 TEST ENVIRONMENT

3.1 Address of the test laboratory

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

3.2 Test Facility

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

FCC-Registration No.: 517856 Designation Number: CN1318

Shenzhen CTA Testing Technology Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA-Lab Cert. No.: 6534.01

Shenzhen CTA Testing Technology Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

3.3 Environmental conditions

During the measurement the environmental conditions were within the listed ranges: Radiated Emission:

Temperature:	24 ° C
Humidity:	45 %
Atmospheric pressure:	950-1050mbar

AC Power Conducted Emission:

Temperature:	25 ° C
CTA	Skir
Humidity:	46 %
	TATE
Atmospheric pressure:	950-1050mbar

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Conducted testing:

Temperature:	25 ° C
CV	STING
Humidity:	44 %
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Atmospheric pressure:	950-1050mbar

3.4 Summary of measurement results

	Description of test	Result
CTATES	Conducted emissions test	Compliant
	Radiated emission test	Compliant
	Occupied bandwidth measurement	Compliant
	Antenna requirement	Compliant

3.5 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 Shenzhen CTA Testing Technology Co., Ltd. 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.

Hereafter the best measurement capability for Shenzhen CTA laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.06 dB	(1)
Radiated Emission	1~18GHz	5.14 dB	(1)
Radiated Emission	18-40GHz	5.38 dB	(1)
Conducted Disturbance	0.15~30MHz	2.14 dB	(1)

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

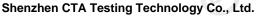


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3.6 Equipments Used during the Test

		J				
	Test Equipment	Manufacturer	Model No.	Equipment No.	Calibration Date	Calibration Due Date
	LISN	R&S	ENV216	CTA-308	2021/08/06	2022/08/05
	LISN	R&S	ENV216	CTA-314	2021/08/06	2022/08/05
	EMI Test Receiver	R&S	ESPI	CTA-307	2021/08/06	2022/08/05
CTATE	EMI Test Receiver	R&S	ESCI	CTA-306	2021/08/06	2022/08/05
	Spectrum Analyzer	Agilent	N9020A	CTA-301	2021/08/06	2022/08/05
,	Spectrum Analyzer	R&S	FSP	CTA-337	2021/08/06	2022/08/05
	Vector Signal generator	Agilent	N5182A	CTA-305	2021/08/06	2022/08/05
	Analog Signal Generator	R&S	SML03	CTA-304	2021/08/06	2022/08/05
∖G	Universal Radio Communication	CMW500	R&S	CTA-302	2021/08/06	2022/08/05
	Temperature and humidity meter	G Chigo	ZG-7020	CTA-326	2021/08/06	2022/08/05
	Ultra-Broadband Antenna	Schwarzbeck	VULB9163	CTA-310	2021/08/07	2022/08/06
	Horn Antenna	Schwarzbeck	BBHA 9120D	CTA-309	2021/08/07	2022/08/06
	Loop Antenna	Zhinan	ZN30900C	CTA-311	2021/08/07	2022/08/06
	Horn Antenna	Beijing Hangwei Dayang	OBH100400	CTA-336	2021/08/06	2022/08/05
	Amplifier	Schwarzbeck	BBV 9745	CTA-312	2021/08/06	2022/08/05
	Amplifier	Taiwan chengyi	EMC051845B	CTA-313	2021/08/06	2022/08/05
	Directional coupler	NARDA	4226-10	CTA-303	2021/08/06	2022/08/05
TE	High-Pass Filter	XingBo	XBLBQ-GTA18	CTA-402	2021/08/06	2022/08/05
CTATE	High-Pass Filter	XingBo	XBLBQ-GTA27	CTA-403	2021/08/06	2022/08/05
h 1	Automated filter bank	Tonscend	JS0806-F	CTA-404	2021/08/06	2022/08/05
	Power Sensor	Agilent	U2021XA	CTA-405	2021/08/06	2022/08/05
	Amplifier	Schwarzbeck	BBV9719	CTA-406	2021/08/06	2022/08/05
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Note: The Cal.Interval was one year.



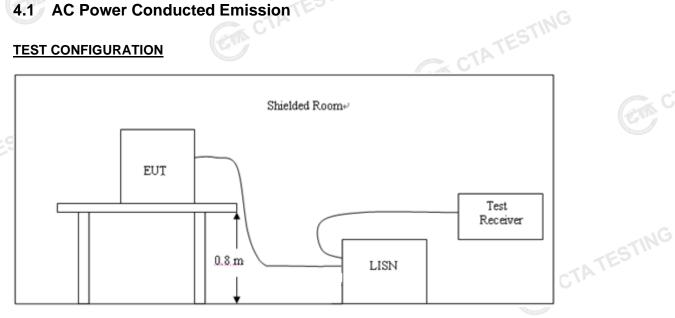


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TEST CONDITIONS AND RESULTS

4.1 AC Power Conducted Emission

TEST CONFIGURATION



TEST PROCEDURE

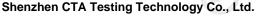
- 1, The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10.
- 2, Support equipment, if needed, was placed as per 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 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.

AC Power Conducted Emission Limit

For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following:

CTATESTING

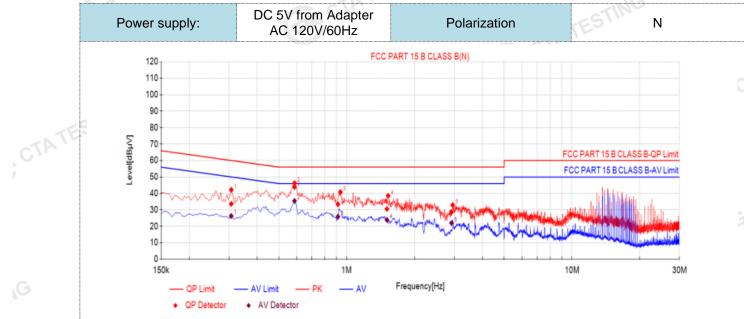
Eroguanov rango (MUz)	Limit	(dBuV)
Frequency range (MHz)	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
* Decreases with the logarithm of the frequ	ency.	
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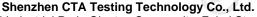
TEST RESULTS

Both 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz power supply have been tested, only the worst result of 120 VAC, 60 Hz was reported as below:

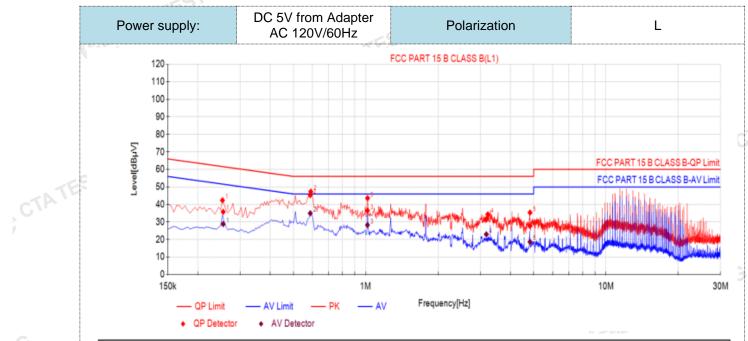


NO.	Freq. [MHz]	Factor [dB]	QP Reading[dB μV]	QP Value [dBµV]	QP Limit [dΒμV]	QP Margin [dB]	ΑV Reading [dBμV]	ΑV Value [dBμV]	ΑV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.3073	10.50	23.14	33.64	60.04	26.40	15.79	26.29	50.04	23.75	PASS
2	0.5865	10.50	33.44	43.94	56.00	12.06	24.93	35.43	46.00	10.57	PASS
3	0.9146	10.50	22.89	33.39	56.00	22.61	15.39	25.89	46.00	20.11	PASS
4	1.5084	10.50	20.08	30.58	56.00	25.42	13.43	23.93	46.00	22.07	PASS
5	2.9184	10.50	18.12	28.62	56.00	27.38	11.55	22.05	46.00	23.95	PASS

- 2). Factor (dB)=insertion loss of LISN (dB) + Cable loss (dB)
- 3). QPMargin(dB) = QP Limit (dB μ V) QP Value (dB μ V)
- 4). $AVMargin(dB) = AV Limit (dB\mu V) AV Value (dB\mu V)$ CTA TESTING



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Final	Final Data List													
NO.	Freq. [MHz]	Factor [dB]	QP Reading[dB μV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dΒμV]	AV Value [dBµV]	AV Limit [dΒμV]	AV Margin [dB]	Verdict			
1	0.2552	10.50	25.31	35.81	61.59	25.78	18.33	28.83	51.59	22.76	PASS			
2	0.5880	10.50	34.82	45.32	56.00	10.68	24.48	34.98	46.00	11.02	PASS			
3	1.0174	10.50	26.04	36.54	56.00	19.46	17.79	28.29	46.00	17.71	PASS			
4	3.1784	10.50	21.16	31.66	56.00	24.34	12.46	22.96	46.00	23.04	PASS			
5	4.8316	10.50	17.25	27.75	56.00	28.25	8.16	18.66	46.00	27.34	PASS			

CTATE

Note:1).QP Value ($dB\mu V$)= QP Reading ($dB\mu V$)+ Factor (dB)

- 2). Factor (dB)=insertion loss of LISN (dB) + Cable loss (dB)
- 3). QPMargin(dB) = QP Limit (dB μ V) QP Value (dB μ V)
- 4). AVMargin(dB) = AV Limit (dBμV) AV Value (dBμV)

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4.2 **Radiated Emission**

Limit

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission out of authorized band shall not exceed the following table at a 3 meters measurement distance.

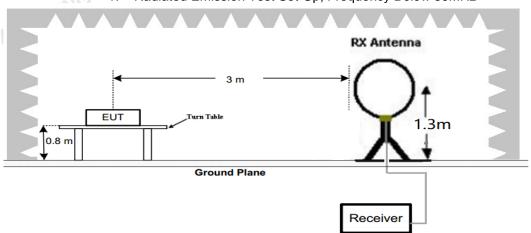
CTATE In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a)

Radiated emission limits

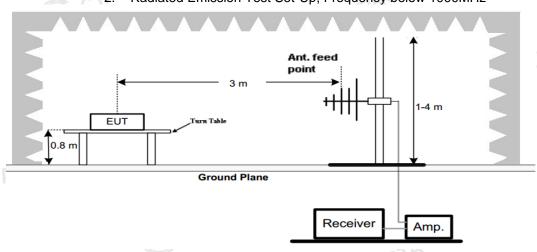
Frequency (MHz)	Distance (Meters)	Distance (Meters) Radiated (dBµV/m)	
0.009-0.49	3 20log(2400/F(KHz))+40log(300/3		2400/F(KHz)
0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)
1.705-30	3	20log(30)+ 40log(30/3)	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

TEST CONFIGURATION

Radiated Emission Test Set-Up, Frequency Below 30MHz



Radiated Emission Test Set-Up, Frequency below 1000MHz



Shenzhen CTA Testing Technology Co., Ltd.

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Test Procedure

- Below 1GHz measurement the EUT is placed on a turntable which is 0.8m above ground plane.
- Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0°C to 360°C to acquire the highest emissions from EUT
- And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4. Repeat above procedures until all frequency measurements have been completed.
- 5. Radiated emission test frequency band from 9KHz to 1000MHz.
- The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance
9KHz-30MHz	Active Loop Antenna	3
30MHz-1GHz	Bilog Antenna	3

7. Setting test receiver/spectrum as following table states:

tting test receiver/spectrum as following table states:										
	Test Frequency range	Test Receiver/Spectrum Setting	Detector	JING						
	9KHz-150KHz	RBW=200Hz/VBW=3KHz,Sweep time=Auto	QP	STILL						
	150KHz-30MHz	RBW=9KHz/VBW=100KHz,Sweep time=Auto	QP							
	30MHz-1GHz	RBW=120KHz/VBW=1000KHz,Sweep time=Auto	QP							

TEST RESULTS

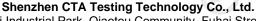
For 9 KHz-30MHz

WORST-CASE RADIATED EMISSION BELOW 30 MHz

Frequency	Reading	Polar	Antenna Factor	Cable Loss	Emission Levels	Limits at 3m	Margin	Detector Mode
(MHz)	(dBµV/m)	Loop	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
0.118(F)	55.86	Loop	23.57	0.02	79.45	106.17	26.72	PK
0.118(F)	48.30	Loop	23.57	0.02	71.89	86.17	14.28	AV
0.110	47.18	Loop	23.51	0.02	70.71	106.78	36.07	PK
0.110	38.75	Loop	23.51	0.02	62.28	86.78	24.50	AV
0.274	30.96	Loop	23.73	-0.16	54.53	98.85	44.32	QP
0.425	25.73	Loop	24.2	-0.25	49.68	95.04	45.36	QP
0.561	26.69	Loop	24.28	-0.24	50.73	72.62	21.89	QP
	<	A 7 E				.G		

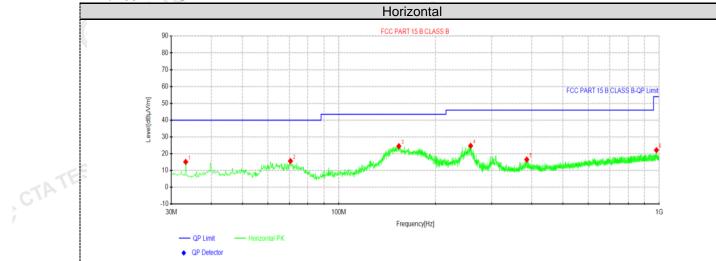
Remark:

- Data of measurement within this frequency range shown "-- in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits and not recorded.
- 2. The test limit distance is 3m limit.
- 3. PK means Peak Value, QP means Quasi Peak Value, AV means Average Value.
- 4. F means Fundamental Frequency.
- Emission level (dBuV/m) = Reading + Antenna Factor + Cable Loss. 5.
- Margin value = Limit value- Emission level. CTA TESTING



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For 30MHz-1GHz



CTATE

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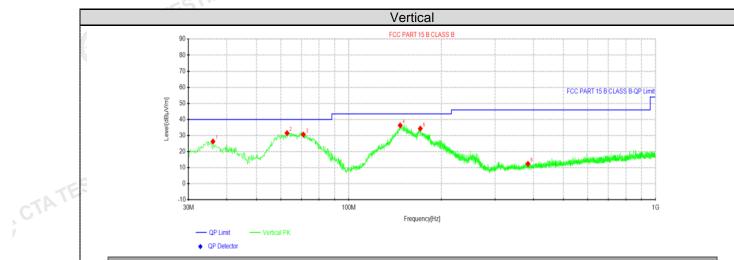
Suspe	Suspected Data List											
NO.	Freq.	Reading	Level	Factor	Limit	Margin	Height	Angle	Polority			
NO.	[MHz]	[dBµV/m]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	[cm]	[°]	Polarity			
1	33.2738	33.32	15.16	-18.16	40.00	24.84	100	235	Horizontal			
2	70.6188	36.58	15.67	-20.91	40.00	24.33	100	0	Horizontal			
3	153.917	46.22	24.52	-21.70	43.50	18.98	100	150	Horizontal			
4	257.828	42.54	24.74	-17.80	46.00	21.26	100	180	Horizontal			
5	385.868	32.18	16.55	-15.63	46.00	29.45	100	250	Horizontal			
6	979.993	30.77	22.16	-8.61	54.00	31.84	100	127	Horizontal			

Note:1).Level ($dB\mu V/m$)= Reading ($dB\mu V/m$)+ Factor (dB/m)

- 2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) Pre Amplifier gain (dB)
- 3). Margin(dB) = Limit (dB μ V/m) Level (dB μ V/m)



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TATE

Suspe	Suspected Data List											
NO	Freq.	Reading	Level	Factor	Limit	Margin	Height	Angle	Delevite			
NO.	[MHz]	[dBµV/m]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	[cm]	[°]	Polarity			
1	36.0625	44.03	26.33	-17.70	40.00	13.67	100	41	Vertical			
2	62.8588	50.53	31.56	-18.97	40.00	8.44	100	48	Vertical			
3	71.1038	51.58	30.65	-20.93	40.00	9.35	100	41	Vertical			
4	147.006	58.14	36.37	-21.77	43.50	7.13	100	57	Vertical			
5	171.013	55.36	34.37	-20.99	43.50	9.13	100	335	Vertical			
6	383.686	28.09	12.42	-15.67	46.00	33.58	100	48	Vertical			

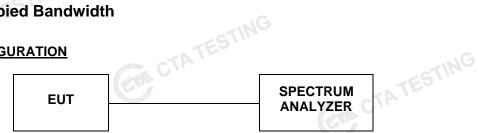
Note:1).Level ($dB\mu V/m$)= Reading ($dB\mu V/m$)+ Factor (dB/m)

- 2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) Pre Amplifier gain (dB)
- 3). Margin(dB) = Limit (dB μ V/m) Level (dB μ V/m)

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Occupied Bandwidth

TEST CONFIGURATION



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.

LIMIT

The 20dB bandwidth shall be less than 80% of the permitted frequency band.

TEST RESULTS

Mode	Freq (KHz)	20dB Bandwidth (KHz)	99% OBW (KHz)	Conclusion
Tx Mode	118.2	7.002	7.578	PASS



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CTA TESTING **Antenna Requirement**

Standard Applicable

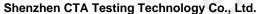
Standard Applicable

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.

And according to FCC 47 CFR Section 15.247 (c), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

Antenna Information

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



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Test Setup Photos of the EUT







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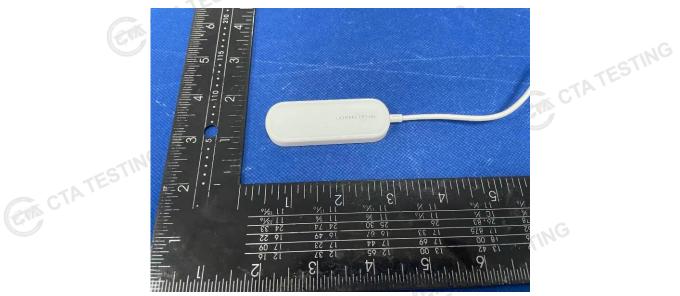
Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China
Tel:+86-755 2322 5875 E-mail:cta@cta-test.cn Web:http://www.cta-test.cn CTATESTING

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6 PHOTOS OF THE EUT

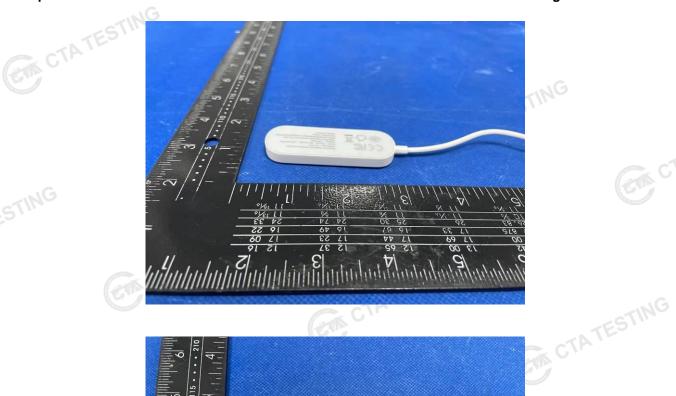






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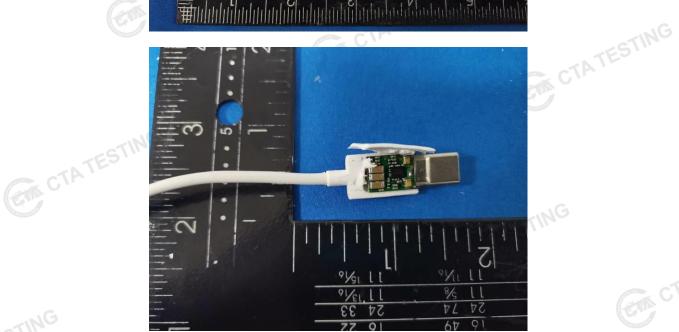


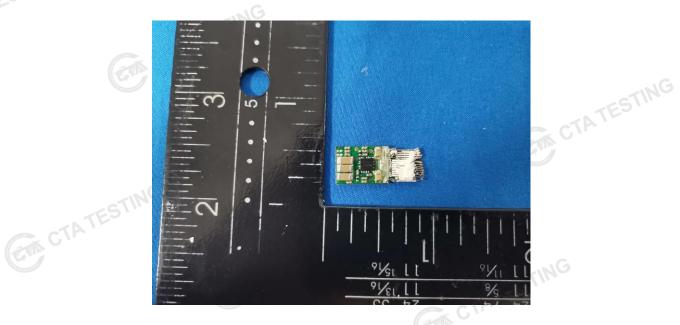


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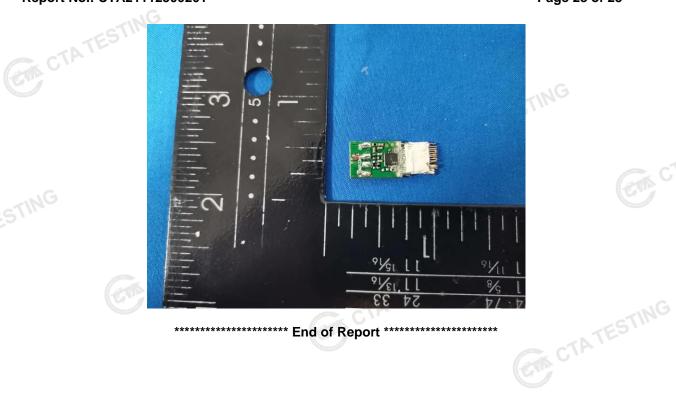




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