

#### 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

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

Date of issue...... Jul. 12, 2022

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

Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name...... SHENZHEN XPGTECH Co., Ltd

Address ...... F2, BuildingA, #282, HuanGuan Middle Road, GuanLan, Longhua,

Shenzhen, Guangdong province, China 518000

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 ...... Watch charger

Trade Mark .....: N/A

Manufacturer ...... GadgeTek (Shanghai) Limited

Model/Type reference.....: X40

Modulation Type ..... ASK

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

Result.....: PASS

Shenzhen CTA Testing Technology Co., Ltd.

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### TEST REPORT

**Equipment under Test** Watch charger

X40 Model /Type

X81, X70, X71, X72, X73, X74, X75, X76, X77, X78, X79 Listed Models CTATESTING

Applicant SHENZHEN XPGTECH Co., Ltd

F2, BuildingA, #282, HuanGuan Middle Road, GuanLan, Longhua, Address

Shenzhen, Guangdong province, China 518000

Manufacturer GadgeTek (Shanghai) Limited

C17, No. 120, Rongjiang Road, Songjiang Industrial Zone, Address

Shanghai, China

Test Result: **PASS** 

The test report merely corresponds to the test sample.

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

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

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

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## SUMMARY

#### 2.1 **General Remarks**

Date of receipt of test sample		Jul. 01, 2022
	1	
Testing commenced on	, A10 c	Jul. 01, 2022
Testing concluded on	:	Jul. 12, 2022

## 2.2 Product Description

Jul. 01, 2022
Jul. 12, 2022
Watch charger
X40
V1.0
V1.0 CTA
CTA220705007-1# (Engineer sample), CTA220705007-2# (Normal sample)
Input:DC 9V-2A From External circuit Output: Wireless Charging: 15W(Max)
Model: EP-TA20CBC Input: AC 100-240V 50/60Hz Output: DC 9V 2A
110KHz - 205KHz
ASK
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:				
Mode 1	Wireless Charging	STING	Recorded	
Mode 2	Standby	CTATES	Pre-tested	
Note: All test modes were pre-tested, but we only recorded the worst case in this report.				

## 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
7	E2. 1	/	1	/	/

#### 2.5 Modifications

No modifications were implemented to meet testing criteria.

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## TEST ENVIRONMENT

#### Address of the test laboratory 3.1

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.

#### **Environmental conditions**

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

Radiated Emission:

Temperature:	24 ° C
The state of the s	-12
Humidity:	45 %
Atmospheric pressure:	950-1050mbar

#### AC Power Conducted Emission:

$\overline{}$	ACT OWER CONDUCTED ETHISSION.				
	Temperature:	25 ° C			
	ING				
	Humidity:	46 %			
	TIN	2			
	Atmospheric pressure:	950-1050mbar			

## Conducted testing:

Atmospheric pressure:	950-1050mbar	
Conducted testing:		
Temperature:	25 ° C	CATES
Humidity:	44 %	7
Training!	11.70	
Atmospheric pressure:	950-1050mbar	

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## Summary of measurement results

Description of test	Result
Conducted emissions test	Compliant
Radiated emission test	Compliant
The 20dB bandwidth measurement	Compliant
Antenna requirement	Compliant

#### 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

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

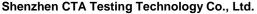
Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.06 dB	(1)
Radiated Emission	1~18GHz	5.14 dB	(1)
Radiated Emission	18-40GHz	5.38 dB	(1)
Conducted Disturbance	0.15~30MHz	2.14 dB	(1)

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

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#### **Equipments Used during the Test** 3.6

	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
	EMI Test Receiver	R&S	ESCI	CTA-306	2021/08/06	2022/08/05
CTATE	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
	Universal Radio Communication	CMW500	R&S	CTA-302	2021/08/06	2022/08/05
1G	Temperature and humidity meter	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
	High-Pass Filter	XingBo	XBLBQ-GTA18	CTA-402	2021/08/06	2022/08/05
TE	High-Pass Filter	XingBo	XBLBQ-GTA27	CTA-403	2021/08/06	2022/08/05
CTA	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
G	Note: The Cal.Interval	was one year.	C.		CM CT	ATESTING
,G						

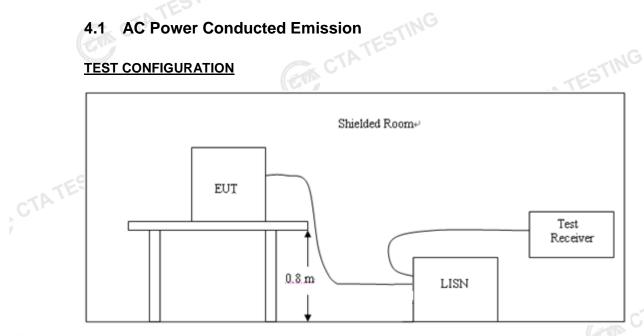


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## TEST CONDITIONS AND RESULTS

#### 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**

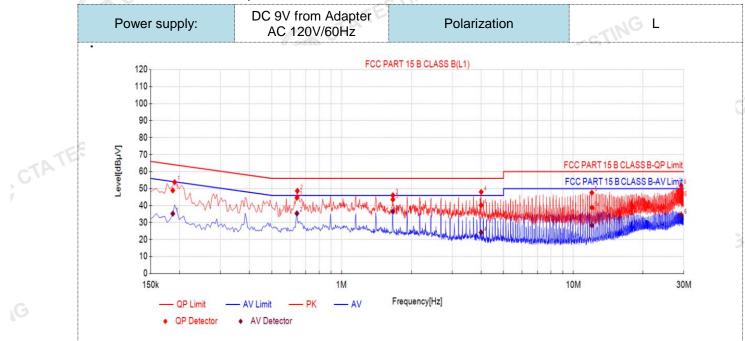
For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following:

Eroquonov rongo (MHz)	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 frequency	uency.		
CTATESTING	TESTING		

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#### **TEST RESULTS**

1. 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:



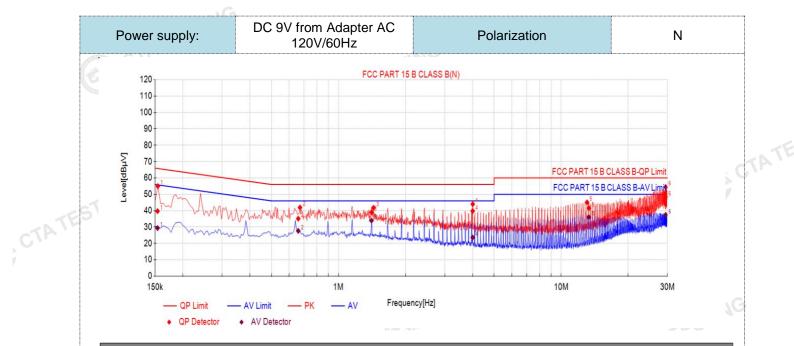
Final	Final Data List										
NO.	Freq. [MHz]	Factor [dB]	QP Reading[dB μV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	ΑV Reading [dBμV]	AV Value [dΒμV]	ΑV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.1871	10.50	38.42	48.92	64.16	15.24	24.75	35.25	54.16	18.91	PASS
2	0.6422	10.50	34.10	44.60	56.00	11.40	24.90	35.40	46.00	10.60	PASS
3	1.6663	10.50	33.04	43.54	56.00	12.46	25.96	36.46	46.00	9.54	PASS
4	4.0037	10.50	29.72	40.22	56.00	15.78	13.63	24.13	46.00	21.87	PASS
5	12.0282	10.50	28.31	38.81	60.00	21.19	17.87	28.37	50.00	21.63	PASS
6	29.2092	10.50	34.32	44.82	60.00	15.18	23.82	34.32	50.00	15.68	PASS

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 $\mu$ V) QP Value (dB $\mu$ V)
- CTA TESTING 4). AVMargin(dB) = AV Limit (dBμV) - AV Value (dBμV)

CTA TESTING

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Final	Final Data List											
NO.	Freq. [MHz]	Factor [dB]	QP Reading[dB μV]	QP Value [dΒμV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict	
1	0.1540	10.50	29.23	39.73	65.78	26.05	18.88	29.38	55.78	26.40	PASS	
2	0.6598	10.50	24.62	35.12	56.00	20.88	17.15	27.65	46.00	18.35	PASS	
3	1.4080	10.50	28.52	39.02	56.00	16.98	23.46	33.96	46.00	12.04	PASS	
4	4.0074	10.50	29.30	39.80	56.00	16.20	13.15	23.65	46.00	22.35	PASS	
5	13.3205	10.50	31.05	41.55	60.00	18.45	25.55	36.05	50.00	13.95	PASS	
6	29.4751	10.50	37.87	48.37	60.00	11.63	26.91	37.41	50.00	12.59	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 $\mu$ V) QP Value (dB $\mu$ V)
- 4).  $AVMargin(dB) = AV Limit (dB\mu V) AV Value (dB\mu V)$ CTATES

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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.

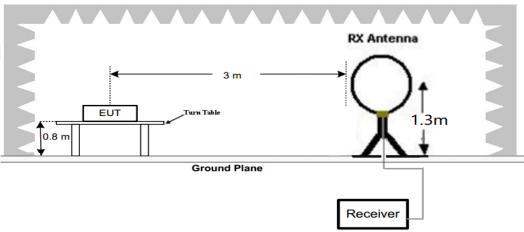
In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a)

Radiated	

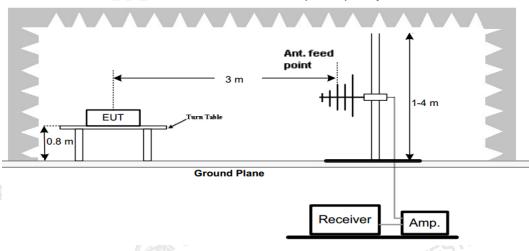
	Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)
	0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)
TATE	0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)
GAL	1.705-30	3	20log(30)+ 40log(30/3)	30
7	30-88	3	40.0	100
	88-216	3	43.5	150
	216-960	3	46.0	200
	Above 960	3	54.0	500

#### **TEST CONFIGURATION**

Radiated Emission Test Set-Up, Frequency Below 30MHz



Radiated Emission Test Set-Up, Frequency below 1000MHz



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- 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
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- Repeat above procedures until all frequency measurements have been completed. 4.
- 5. Radiated emission test frequency band from 9KHz to 1000MHz.
- The distance between test antenna and EUT as following table states: 6.

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

Setting test receiver/spectrum as following table states:

Test Frequency range	Test Receiver/Spectrum Setting	Detector						
9KHz-150KHz	RBW=200Hz/VBW=3KHz,Sweep time=Auto	QP						
150KHz-30MHz	RBW=9KHz/VBW=100KHz,Sweep time=Auto	QP						
30MHz-1GHz	RBW=120KHz/VBW=1000KHz,Sweep time=Auto	QP						
ESULTS	GTATES	CTATE						
Hz-30MHz								
WORST-CASE RADIATED EMISSION BELOW 30 MHz								

#### **TEST RESULTS**

#### For 9 KHz-30MHz

#### **WORST-CASE RADIATED EMISSION BELOW 30 MHz**

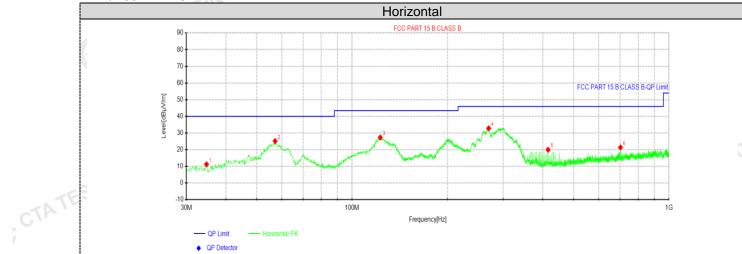
Frequency	Reading	Polar	Antenna Factor	Cable Loss	Emission Levels	Limits at 3m	Margin	Detector Mode
(MHz)	(dBµV/m)	Loop	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
0.147240(F)	76.47	Loop	23.63	0.02	100.12	106.00	5.88	PK
0.147240(F)	53.02	Loop	23.63	0.02	76.67	86.00	9.33	AV
0.110	50.61	Loop	23.51	0.02	74.14	106.78	32.64	PK
0.110	47.01	Loop	23.51	0.02	70.54	86.78	16.24	AV
0.288	41.69	Loop	23.82	-0.17	65.34	98.42	33.08	QP
0.471	39.52	Loop	24.21	-0.28	63.45	94.14	30.69	QP
0.549	32.80	Loop	24.32	-0.3	56.82	72.81	15.99	QP

#### 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.
- PK means Peak Value, QP means Quasi Peak Value, AV means Average Value.
- F means Fundamental Frequency.
- Emission level (dBuV/m) =Reading + Antenna Factor + Cable Loss. 5.
- Margin value = Limit value- Emission level.

CTATE

## For 30MHz-1GHz

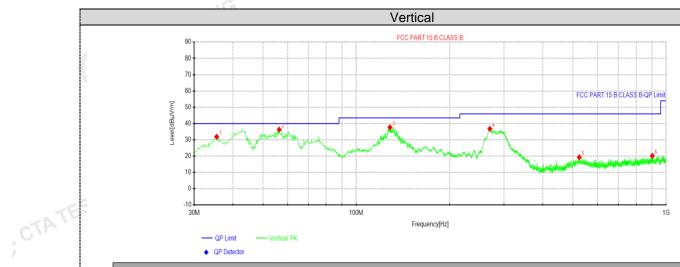


Suspe	Suspected Data List											
NO	Freq.	Reading	Level	Factor	Limit	Margin	Height	Angle	Dolority			
NO.	[MHz]	[dBµV]	[dBµV/m]	[dB/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity			
1	34.7288	29.16	11.26	-17.90	40.00	28.74	100	342	Horizontal			
2	57.16	42.79	25.19	-17.60	40.00	14.81	100	73	Horizontal			
3	122.756	47.89	27.32	-20.57	43.50	16.18	100	357	Horizontal			
4	269.832	50.53	32.84	-17.69	46.00	13.16	100	98	Horizontal			
5	415.332	35.38	19.98	-15.40	46.00	26.02	100	163	Horizontal			
6	702.937	33.15	21.38	-11.77	46.00	24.62	100	252	Horizontal			

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

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

CTATE



Suspe	Suspected Data List											
NO	Freq.	Reading	Level	Factor	Limit	Margin	Height	Angle	Dolority			
NO.	[MHz]	[dBµV]	[dBµV/m]	[dB/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity			
1	35.4562	49.72	31.94	-17.78	40.00	8.06	100	324	Vertical			
2	56.4325	53.77	36.33	-17.44	40.00	3.67	100	283	Vertical			
3	128.455	58.84	37.68	-21.16	43.50	5.82	100	42	Vertical			
4	269.832	54.43	36.74	-17.69	46.00	9.26	100	324	Vertical			
5	524.336	33.23	19.32	-13.91	46.00	26.68	100	235	Vertical			
6	902.393	29.38	20.19	-9.19	46.00	25.81	100	356	Vertical			

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

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

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#### 4.3 The 20dB bandwidth

#### **TEST CONFIGURATION**



#### **TEST PROCEDURE**

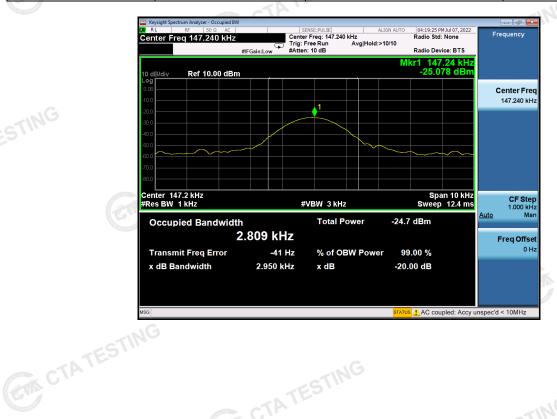
Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in subpart E of this part, must be designed to ensure that 20dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule 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)	Conclusion
Tx Mode	147.240	2.950	PASS



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### **Antenna Requirement**

#### Standard Applicable

#### Standard Applicable

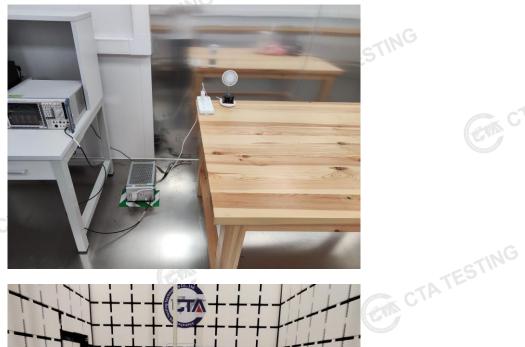
CTA TESTING For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to CTATE ensure that no antenna other than that furnished by the responsible party shall be used with the device.

#### **Antenna Information**

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

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# Test Setup Photos of the EUT







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## PHOTOS OF THE EUT







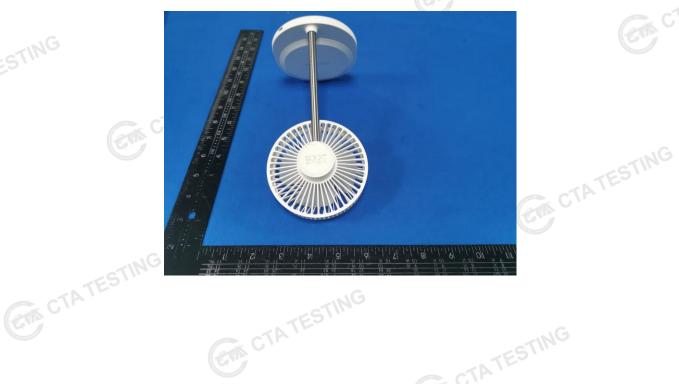
Shenzhen CTA Testing Technology Co., Ltd.

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

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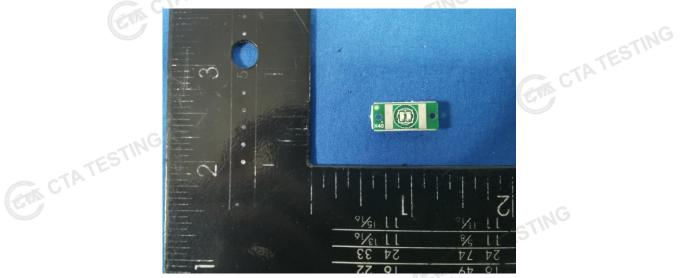


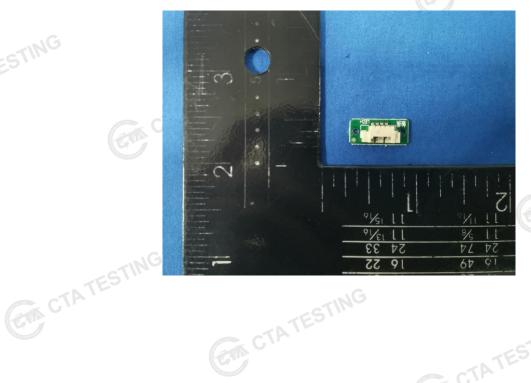




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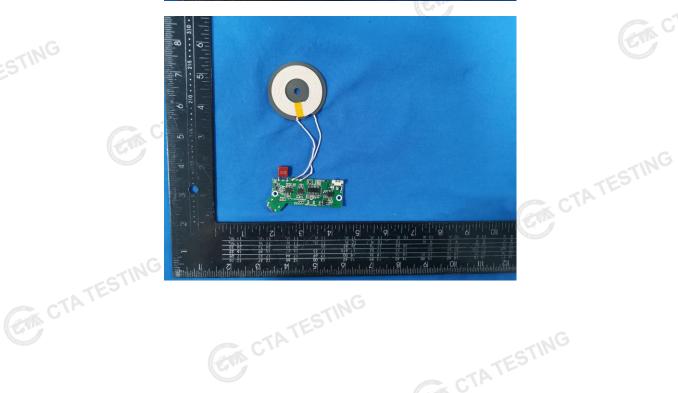


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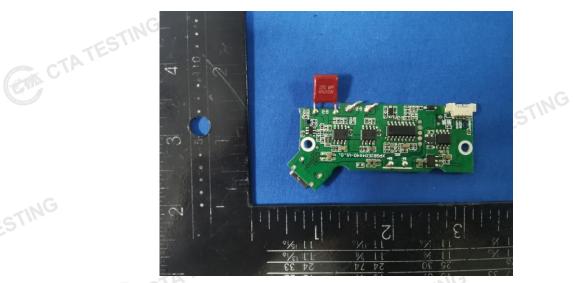


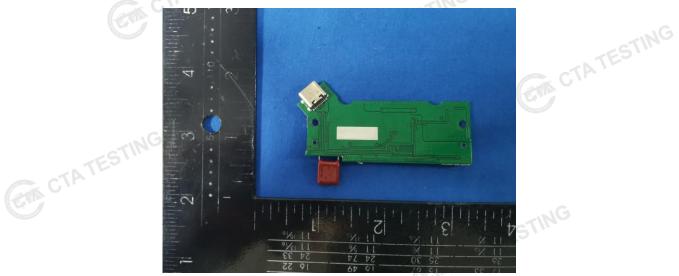


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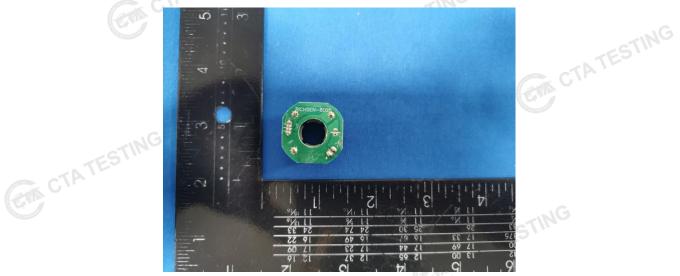






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