

#### 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**

Report Reference No...... CTA24050700201

FCC ID.....: 2BGF5-X10

Compiled by

( position+printed name+signature) .: File administrators Jinghua Xiao

Supervised by

( position+printed name+signature) .: Project Engineer Lushan Kong

Approved by

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

Date of issue ...... May. 11, 2024

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 Jishiyu Technology Co., Ltd.

NanwanStreet, Longgang District, Shenzhen, China.

Test specification .....:

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

ANSI C63.10: 2013

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Test item description ...... Vehicle wireless charging bracket

Trade Mark .....: N/A

Manufacturer ...... Shenzhen Jishiyu Technology Co., Ltd.

Model/Type reference .....: X10

Listed Models ...... X15, X15s, X16, X16s, X10s, X11, X11s, X12, X12s, XE, XR, XS, TE

Modulation Type .....: ASK

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

Rating ...... Input: DC 9V-2A

Wireless charging output: 15W(MAX)

Result ..... PASS

Shenzhen CTA Testing Technology Co., Ltd.

Report No.: CTA24050700201 Page 2 of 24

## TEST REPORT

**Equipment under Test** Vehicle wireless charging bracket

Model /Type X10

Listed Models X15, X15s, X16, X16s, X10s, X11, X11s, X12, X12s, XE, XR, XS, TE

**Applicant** Shenzhen Jishiyu Technology Co., Ltd.

306, 3rd Floor, Building 5, Baimenqian Industrial Park, Shawan, Address

NanwanStreet, Longgang District, Shenzhen, China.

Manufacturer Shenzhen Jishiyu Technology Co., Ltd.

306, 3rd Floor, Building 5, Baimengian Industrial Park, Shawan, Address

NanwanStreet, Longgang District, Shenzhen, China.

	-55/11	
Test Result:	PASS	

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 CTATESTING laboratory.

## **Contents**

1	TEST STANDARDS	4
100 123 usaturin	CTAIL	-ING
<u>2</u>	SUMMARY	5
_		TATA
2.1	General Remarks	5 5 6 6
2.1	Product Description	5 5
2.2	Description of the test mode	-6
2.4	Special Accessories	6
2.5	Modifications	6
TES		•
_		_
<u>3</u>	TEST ENVIRONMENT	<u>7</u>
	Address of the test laboratory Test Facility Environmental conditions Summary of measurement results	
3.1	Address of the test laboratory	7
3.2	Test Facility	7
3.3	Environmental conditions	7
3.4		CTATESTA 8
3.5	Statement of the measurement uncertainty	6
3.6	Equipments Used during the Test	7 8 8 8 8 8
4	TEST CONDITIONS AND RESULTS	
<u>4</u>	TEST CONDITIONS AND RESULTS	
	ESTITUTE	
4.1	AC Power Conducted Emission	10
4.2	Radiated Emission	13
4.3	The 20dB bandwidth	17
4.4	AC Power Conducted Emission Radiated Emission The 20dB bandwidth Antenna Requirement	STING 18
		TATES
<u>5</u>	TEST SETUP PHOTOS OF THE EUT	<u> 19</u>
<u>6</u>	PHOTOS OF THE EUT	
0		CAL
TESTING		

Report No.: CTA24050700201 Page 4 of 24

## 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): D 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

Page 5 of 24 Report No.: CTA24050700201

# SUMMARY

#### 2.1 **General Remarks**

2.1 General Remarks			
Date of receipt of test sample	: Apr. 30, 2024		
Testing commenced on	: Apr. 30, 2024		
Testing concluded on	: May. 11, 2024		

## 2.2 Product Description

Product Name:	Vehicle wireless charging bracket
Model/Type reference:	X10
Hardware version:	V1.0
Software version:	V1.0
Test samples ID:	CTA240507002-1# (Engineer sample) CTA240507002-2# (Normal sample)
Power supply:	Input: DC 9V-2A Wireless charging output: 15W(MAX)
Adapter information (Auxiliary test supplied by test Lab):	Input: AC 100-240V 50/60Hz Output: DC 9V 3A
PHONE information (Auxiliary test supplied by testing Lab):	Model: iPhone 13 Trade Mark: APPLE
Operation frequency:	110KHz - 205KHz
Modulation type:	ASK
Antenna type:	Loop coil antenna

Report No.: CTA24050700201 Page 6 of 24

## Description of the test mode

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

□ Charging and communication mode
 □ Charging and communic

Test Mod	des:		
Mode 1	Wireless Charging	CTA	Recorded
Mode 2	Standby	GVI	Pre-tested
Note: All	test modes were pre-tested, but we only record	led the worst case in this re	port.

#### 2.4 **Special Accessories**

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

Description	Manufacturer	Model	Technical Parameters	Certificate	Provided by
/	/	/	CTAI	/	TING
/	/	/	/	1	TE?
/	/	/	/	C C	1

#### 2.5 **Modifications**

No modifications were implemented to meet testing criteria. CTATESTING

Page 7 of 24 Report No.: CTA24050700201

## TEST ENVIRONMENT

## 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.

#### **Environmental conditions**

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

Radiated Emission:

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

#### AC Power Conducted Emission:

(OT OWER CONGRETE ETHIOSIGH:	
Temperature:	25 ° C
ING	
Humidity:	46 %
-10	10
Atmospheric pressure:	950-1050mbar

# Conducted testing:

Atmospheric pressure:	950-1050mbar	.6
Conducted testing:		ESTING
Temperature:	25 ° C	TATE
	The Local Control of the Local	, ,
Humidity:	44 %	
	N3 cartain	
Atmospheric pressure:	950-1050mbar	

Page 8 of 24 Report No.: CTA24050700201

## **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 TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " 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 Testing Technology Co., Ltd.:

Test	Range	Measurement Uncertainty	Notes	
Radiated Emission	9KHz~30MHz	3.02 dB	(1)	
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)	
Output Peak power	30MHz~18GHz	0.55 dB	(1)	
Power spectral density	/	0.57 dB	(1)	
Spectrum bandwidth	/	1.1%	(1)	
Radiated spurious emission (30MHz-1GHz)	30~1000MHz	4.10 dB	(1)	
Radiated spurious emission (1GHz-18GHz)	1~18GHz	4.32 dB	(1)	
Radiated spurious emission (18GHz-40GHz)	18-40GHz	5.54 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.

## 3.6 Equipments Used during the Test

3.6 Equipments	Used during the	e Test	TESTING		
Test Equipment	Manufacturer	Model No.	Equipment No.	Calibration Date	Calibration Due Date
LISN	R&S	ENV216	CTA-308	2023/08/02	2024/08/01
LISN	R&S	ENV216	CTA-314	2023/08/02	2024/08/01
EMI Test Receiver	R&S	ESPI	CTA-307	2023/08/02	2024/08/01
EMI Test Receiver	R&S	ESCI	CTA-306	2023/08/02	2024/08/01
Spectrum Analyzer	Agilent	N9020A	CTA-301	2023/08/02	2024/08/01
Spectrum Analyzer	R&S	FSP	CTA-337	2023/08/02	2024/08/01

	Vector Signal generator	Agilent	N5182A	CTA-305	2023/08/02	2024/08/01
	Analog Signal Generator	R&S	SML03	CTA-304	2023/08/02	2024/08/01
	WIDEBAND RADIO COMMUNICATION TESTER	CMW500	R&S	CTA-302	2023/08/02	2024/08/01
	Temperature and humidity meter	Chigo	ZG-7020	CTA-326	2023/08/02	2024/08/01
	Ultra-Broadband Antenna	Schwarzbeck	VULB9163	CTA-310	2023/10/17	2024/10/16
	Horn Antenna	Schwarzbeck	BBHA 9120D	CTA-309	2023/10/13	2024/10/12
CTATE	Loop Antenna	Zhinan	ZN30900C	CTA-311	2023/10/17	2024/10/16
CAL	Horn Antenna	Beijing Hangwei Dayang	OBH100400	CTA-336	2021/08/07	2024/08/06
	Amplifier	Schwarzbeck	BBV 9745	CTA-312	2023/08/02	2024/08/01
	Amplifier	Taiwan chengyi	EMC051845B	CTA-313	2023/08/02	2024/08/01
	Directional coupler	NARDA	4226-10	CTA-303	2023/08/02	2024/08/01
1G	High-Pass Filter	XingBo	XBLBQ-GTA18	CTA-402	2023/08/02	2024/08/01
	High-Pass Filter	XingBo	XBLBQ-GTA27	CTA-403	2023/08/02	2024/08/01
	Automated filter Tonscend		JS0806-F	CTA-404	2023/08/02	2024/08/01
	Power Sensor	Agilent	U2021XA	CTA-405	2023/08/02	2024/08/01
	Amplifier	Schwarzbeck	BBV9719	CTA-406	2023/08/02	2024/08/01

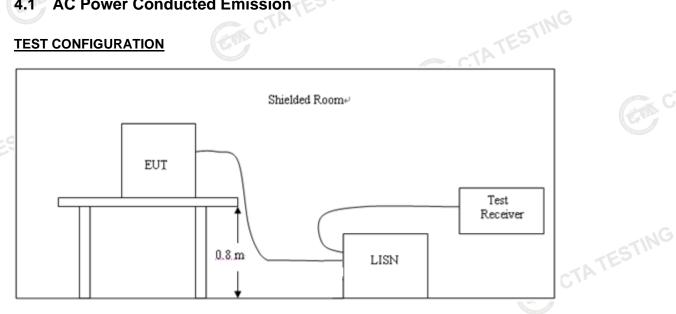
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	RF Test Software	Tonscend	TS®JS1120	3.1.46	N/A	N/A
1	RF Test Software	Tonscend	TS®JS1120-3	3.1.65	N/A	N/A
CTATE	EMI Test Software	Tonscend	TS®JS32-CE	5.0.0.1	N/A	N/A
-E	EMI Test Software	Tonscend	TS®JS32-RE	5.0.0.2	N/A	N/A
	Test Equipment	Manufacturer	Model No.	Version number	Calibration Date	Calibration Due Date

Page 10 of 24 Report No.: CTA24050700201

## TEST CONDITIONS AND RESULTS

## **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**

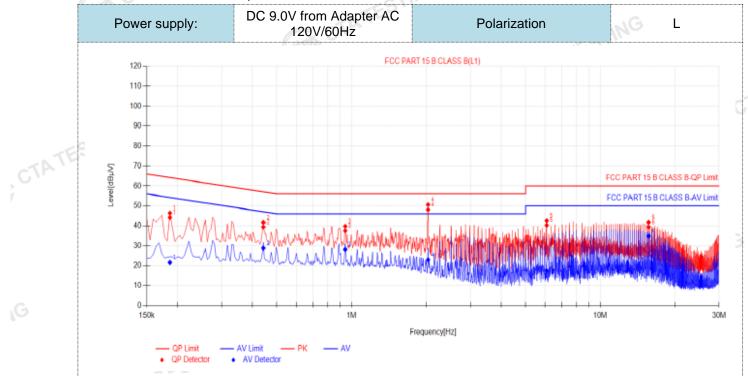
For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following:

Eroguanov rango (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 frequen	ncy.	
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Report No.: CTA24050700201 Page 11 of 24

#### **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:



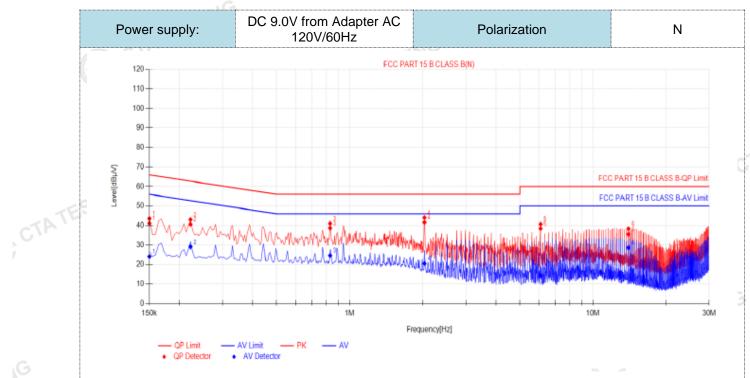
	Final	Data Lis	t									
7	NO.	Freq. [MHz]	Factor [dB]	QP Reading[dB μV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	ΑV Reading [dBμV]	AV Value [dBµV]	ΑV Limit [dBμV]	AV Margin [dB]	Verdict
	1	0.186	10.03	34.13	44.16	64.21	20.05	11.63	21.66	54.21	32.55	PASS
	2	0.4425	9.93	29.47	39.40	57.01	17.61	18.91	28.84	47.01	18.17	PASS
	3	0.942	9.98	27.58	37.54	56.00	18.46	18.21	28.19	46.00	17.81	PASS
	4	2.031	9.93	38.15	48.08	56.00	7.92	13.02	22.95	46.00	23.05	PASS
	5	6.09	10.16	30.12	40.28	60.00	19.72	7.43	17.59	50.00	32.41	PASS
	6	15.621	10.32	29.06	39.38	60.00	20.62	24.53	34.85	50.00	15.15	PASS

Note:1).QP Value (dBµV)= QP Reading (dBµV)+ 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 (dBμV) AV Value (dBμV)

CTATESTING

Report No.: CTA24050700201 Page 12 of 24



1 0.1 2 0.2	0.15	Factor [dB] 9.98	QP Reading[dB μV] 31.18 30.65	QP Value [dBμV] 41.16 40.63	QP Limit [dBµV] 66.00	QP Margin [dB] 24.84	AV Reading [dBµV]	AV Value [dBμV] 24.09	AV Limit [dBµV] 58.00	AV Margin [dB] 31.91	Verdict PASS	
2 0.2						24.84	14.11	24.09	56.00	31.91	PASS	
	0.222	9.98	30.65	40.63	00.74							
3 0.83					62.74	22.11	19.14	29.12	52.74	23.62	PASS	
	.8295 1	10.14	28.54	38.68	56.00	17.32	14.47	24.61	46.00	21.39	PASS	
4 2.0	2.031 1	10.19	31.46	41.65	56.00	14.35	10.43	20.62	46.00	25.38	PASS	
5 6.00	.0945 1	10.27	28.16	38.43	60.00	21.57	4.12	14.39	50.00	35.61	PASS	
6 13.6	3.956 1	10.42	25.12	35.54	60.00	24.46	18.23	28.65	50.00	21.35	PASS	
lote:1).QP Value (dBµV)= QP Reading (dBµV)+ Factor (dB) ). Factor (dB)=insertion loss of LISN (dB) + Cable loss (dB)										gKA		

- 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 (dBμV) AV Value (dBμV)

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Report No.: CTA24050700201 Page 13 of 24

#### 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.

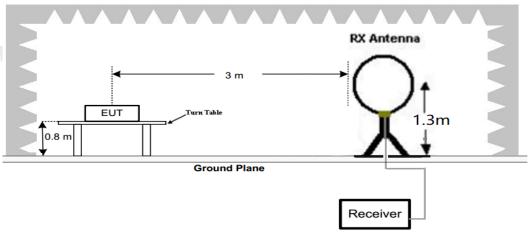
In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a)

Radiated	

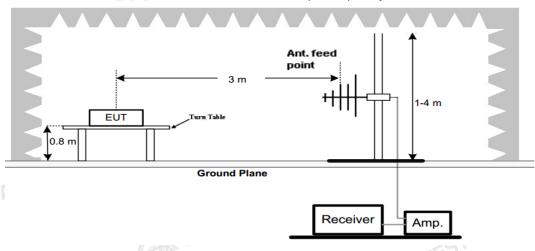
	Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)		
	0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)		
TATE	0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)		
CALL	1.705-30 3		20log(30)+ 40log(30/3)	30		
1	30-88	3	40.0	100		
	88-216	3	43.5	150		
	216-960	3	46.0	200		
	Above 960	3	54.0	500		

### **TEST CONFIGURATION**

Radiated Emission Test Set-Up, Frequency Below 30MHz



Radiated Emission Test Set-Up, Frequency below 1000MHz



Page 14 of 24 Report No.: CTA24050700201

- Below 1GHz measurement the EUT is placed on a turntable which is 0.8m above ground plane.
- 2. 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.

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:

	3	
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

#### **TEST RESULTS**

#### For 9 KHz-30MHz

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

	JOIVII IZ TOTIZ	-   '\'L	7 V - 1 2 O I VI 1 2	/ V D V V = 100	JOIN 12,0WCCP	time=/tate	Qı					
	To use the last				TATES							
TEST RESUL	<u>rs</u>							5				
For 9 KHz-30	ИHz					K CTATESTING						
WORST-CASE RADIATED EMISSION BELOW 30 MHz												
Eregueney Booding		Polar	Antenna	Cable	Emission	Limits at 3m	Margin	Detector				
Frequency	Reading	Polar	Factor	Loss	Levels	Limits at Sin	Margin	Mode				
(MHz)	(dBµV/m)	Loop	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)					
0.1223200(F)	76.86	Loop	23.63	0.02	100.51	105.85	5.34	PK				
0.1223200(F)	55.92	Loop	23.63	0.02	79.57	85.85	6.28	AV				
0.110	55.43	Loop	23.51	0.02	78.96	106.78	27.82	PK				
0.110	48.42	Loop	23.51	0.02	71.95	86.78	14.83	AV				
0.288	45.52	Loop	23.82	-0.17	69.17	98.42	29.25	QP				
0.471	42.70	Loop	24.21	-0.28	66.63	94.14	27.51	QP				
0.549	36.61	Loop	24.32	-0.3	60.63	72.81	12.18	QP				
								-C71				

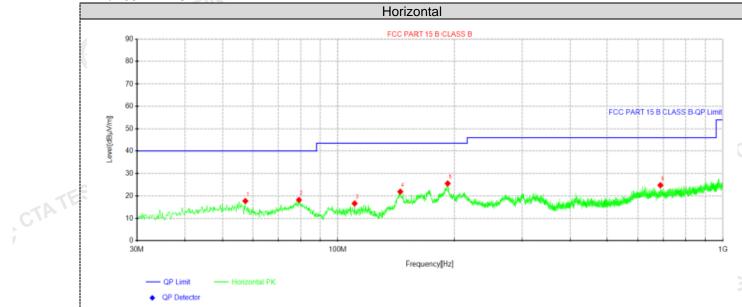
#### Remark:

- 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. 4.
- Emission level (dBuV/m) = Reading + Antenna Factor + Cable Loss. 5.
- Margin value = Limit value- Emission level.

Report No.: CTA24050700201

## For 30MHz-1GHz

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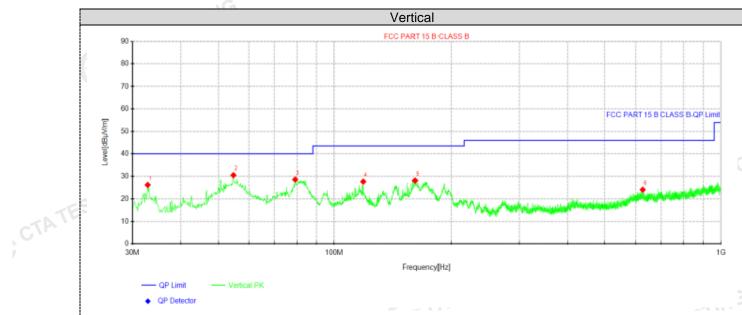


Susp	ected Data	List							
NO	Freq.	Reading	Level	Factor	Limit	Margin	Height	Angle	Dalasik
NO.	[MHz]	[dBµV]	[dBµV/m]	[dB/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	57.4025	30.21	17.66	-12.55	40.00	22.34	100	35	Horizontal
2	79.1062	35.12	18.15	-16.97	40.00	21.85	100	47	Horizontal
3	110.388	30.29	16.57	-13.72	43.50	26.93	100	289	Horizontal
4	145.43	37.94	21.88	-16.06	43.50	21.62	100	59	Horizontal
5	191.99	39.45	25.57	-13.88	43.50	17.93	100	132	Horizontal
6	687.538	30.03	24.79	-5.24	46.00	21.21	100	205	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	ected Data	List							
NO	Freq.	Reading	Level	Factor	Limit	Margin	Height	Angle	Delevite
NO.	[MHz]	[dBµV]	[dBµV/m]	[dB/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	32.7888	40.45	26.21	-14.24	40.00	13.79	100	177	Vertical
2	54.735	42.50	30.59	-11.91	40.00	9.41	100	201	Vertical
3	79.1062	45.61	28.64	-16.97	40.00	11.36	100	85	Vertical
4	118.755	41.90	27.70	-14.20	43.50	15.80	100	294	Vertical
5	161.92	44.22	28.17	-16.05	43.50	15.33	100	201	Vertical
6	626.307	29.30	24.07	-5.23	46.00	21.93	100	339	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)

Report No.: CTA24050700201 Page 17 of 24

#### 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	122.320	3.705	PASS



Page 18 of 24 Report No.: CTA24050700201

## **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**

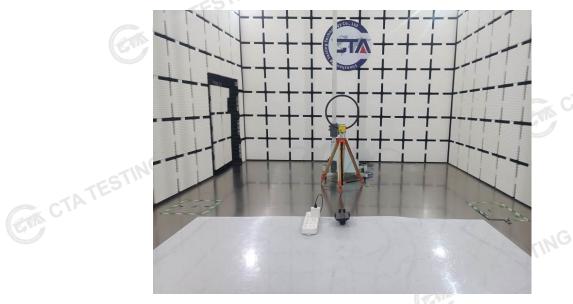
The antenna used in this product is a Coil Antenna, The directional gains of antenna used for transmitting is CTATES 0dBi.

Page 19 of 24 Report No.: CTA24050700201

# Test Setup 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

Report No.: CTA24050700201 Page 20 of 24

# PHOTOS OF THE EUT



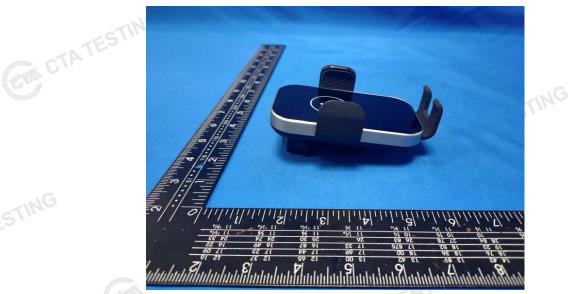




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Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China
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Report No.: CTA24050700201 Page 21 of 24







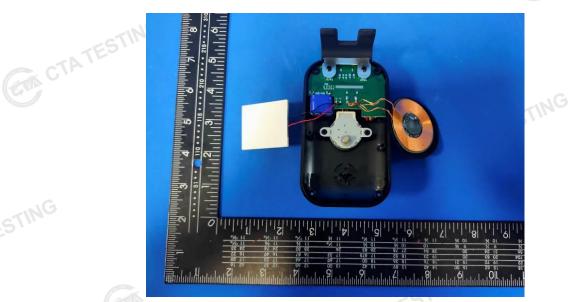
Report No.: CTA24050700201 Page 22 of 24



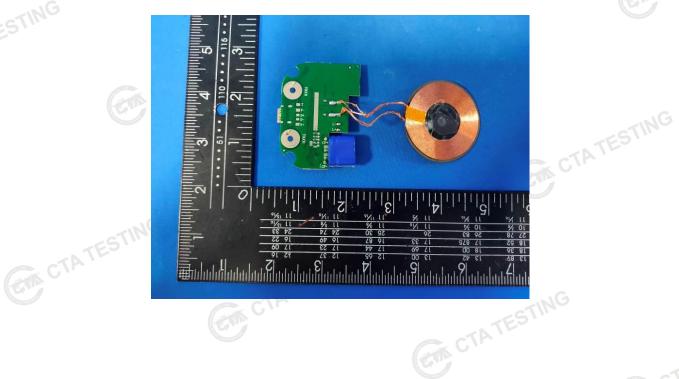




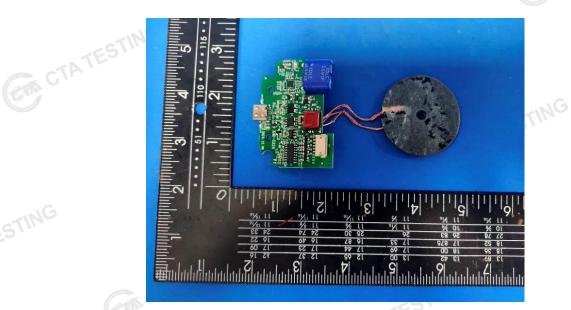
Report No.: CTA24050700201







Report No.: CTA24050700201





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