

Shenzhen CTA Testing Technology Co., Ltd.

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

Report Reference No FCC ID: Compiled by (position+printed name+signature): Supervised by (position+printed name+signature): Approved by	CTA22022800101 2ANOA-T6 File administrators Kevin Liu
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Date of issue	Feb. 22, 2022
Testing Laboratory Name	Shenzhen CTA Testing Technology Co., Ltd.
Address	Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community,
Address	Fuhai Street, Baoʻan District, Shenzhen, China
Applicant's name	Shenzhen Tengsai Technology Co., LTD
Address	Room 203, Building A, No. 12, Xiawei Industrial Zone, Zhangxi Community, Guanhu Street, Longhua District, Shenzhen, China
Test specification	
Standard:	FCC Rules and Regulations Part 15 Subpart C (Section 15.209), ANSI C63.10: 2013
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liability for damages resulting from the placement and context. Test item description Trade Mark Manufacturer	 e reader's interpretation of the reproduced material due to its Wireless Charger Stand N/A Shenzhen Tengsai Technology Co., LTD T6 T7, T8, T9, T11, T12, T13, T15, T16, T17, T18, T19, T20, T21, T22,
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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

Page 2 of 22 Report No.: CTA22022800101 TEST REPORT Equipment under Test Wireless Charger Stand Τ6 Model /Type T7, T8, T9, T11, T12, T13, T15, T16, T17, T18, T19, T20, T21, T22, Listed Models ÷ CTATESTING T23, T24, T25, T26, T27, T28, T29 Applicant Shenzhen Tengsai Technology Co., LTD Room 203, Building A, No. 12, Xiawei Industrial Zone, Zhangxi Address Community, Guanhu Street, Longhua District, Shenzhen, China Manufacturer Shenzhen Tengsai Technology Co., LTD 1 Room 203, Building A, No. 12, Xiawei Industrial Zone, Zhangxi Address ÷ Community, Guanhu Street, Longhua District, Shenzhen, 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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ESTING			

1 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 15.209): Radiated emission limits; general requirements. ANSI C63.10: 2013: American National Standard for Testing Unlicensed Wireless Devices

SUMMARY 2

2.1 General Remarks

2.1 General Remarks		TESI		
Date of receipt of test sample		Feb. 13, 2022	-ING	
			-ESTIN'	
	5		TAIL	
Testing commenced on	:	Feb. 14, 2022		
			6.7	7 12
			Come (Come)	
Testing concluded on	:	Feb. 21, 2022		

Product Name:	Wireless Charger Stand
Model/Type reference:	T6
Power supply:	DC 9V/2A
Hardware version	T6-LY6105A-10W-2Coil-V1.7
Software version	V1.0
Testing sample ID:	CTA220228001-1#
Wireless Charger	
Antenna Type	Coil Antenna
Antenna Gain	0.0dBi
Operation frequency	110KHz~205KHz
Modulation Type	ASK

Description of the test mode 2.3

	ent under test was operated during the measurement under the following conditions: rging and communication mode	CIA
Test Mo	des:	
Mode 1	AC/DC Adapter (9V/2A) + EUT + Wireless Charger tester (Load 10W)	Recorded
Mode 2	AC/DC Adapter (9V/2A) + EUT + Wireless Charger tester (Load 7.5W)	Pre-tested
Mode 3	AC/DC Adapter (9V/2A) + EUT + Wireless Charger tester (Load 5W)	Pre-tested
Note: All	test modes were pre-tested, but we only recorded the worst case in this report.	
		TESTIN
	C C	7A .

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Special Accessories 2.4

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	UGREEN	CD137	Input: 100-240V~, 50/60Hz, 0.5A Output: 5V==-2A / 9V==-2A / 12V ===-2A	CE/FCC	laboratory	
	Wireless Charger tester	1	SW-MK- 89898	Full Protocol Wireless Chager Tester, 5W / 7.5W / 10W / 15W four gear switchable	CE/FCC	laboratory	i7;
	JUNG	/	/	/	/		
	5111	/	/	/	/	/	
;TA \	2.5 Modifi	ications	ESTING				
	No modificatio	ns were impleme	nted to meet t	esting criteria.			

2.5 **Modifications**

GTA CTATESTING 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:

Temperature:	15-35 ° C
	FSI
Humidity:	30-60 %
C	Selfs V V
Atmospheric pressure:	950-1050mbar

3.4 Summary of measurement results

DESCRIPTION OF TEST	RESULT
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 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	30~1000MHz	4.06 dB	(1)
Radiated Emission	1~18GHz	5.14 dB	(1)

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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.

3.6 Equipments Used during the Test

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
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
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
High-Pass Filter	XingBo	XBLBQ-GTA27	CTA-403	2021/08/06	2022/08/05
Automated filter bank	Tonscend	JS0806-F	CTA-404	2021/08/06	2022/08/05
Power Sensor	GV Agilent	U2021XA	CTA-405	2021/08/06	2022/08/05
Amplifier	Schwarzbeck	BBV9719	CTA-406	2021/08/06	2022/08/05
Note: The Cal.Interval	was one year.	Car o		GIA CT	ATEST

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

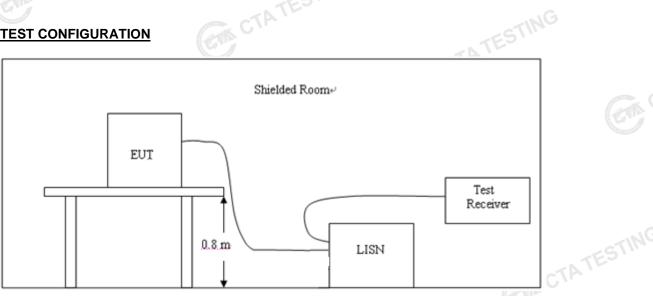
CTATE

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TEST CONDITIONS AND RESULTS 4

TESTING 4.1 AC Power Conducted Emission

TEST CONFIGURATION



TEST PROCEDURE

CTATES

- 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 :

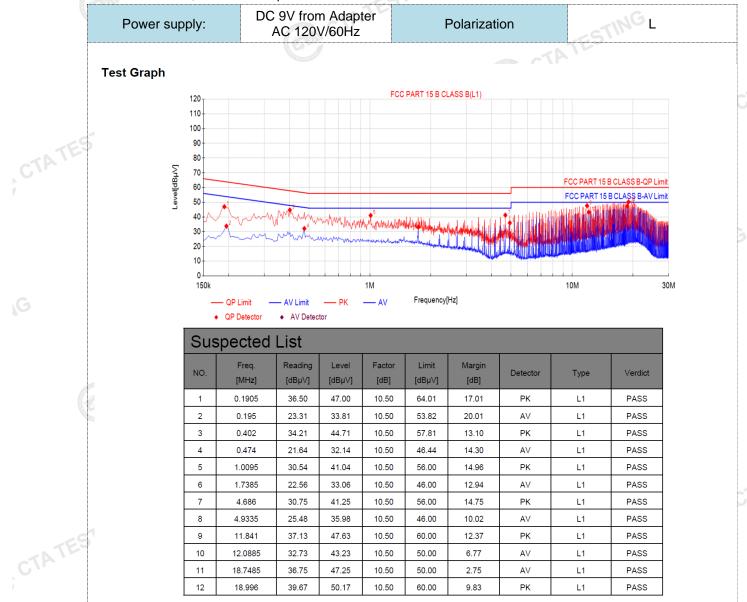
	Limit (dBuV)		
Frequency range (MHz)	Quasi-peak	Average	
0.15-0.5	66 to 56*	56 to 46*	
0.5-5	56	46	
5-30	60	50	
* Decreases with the legarithm of the frequ	10001	•	

Decreases with the logarithm of the frequency

CATESTING

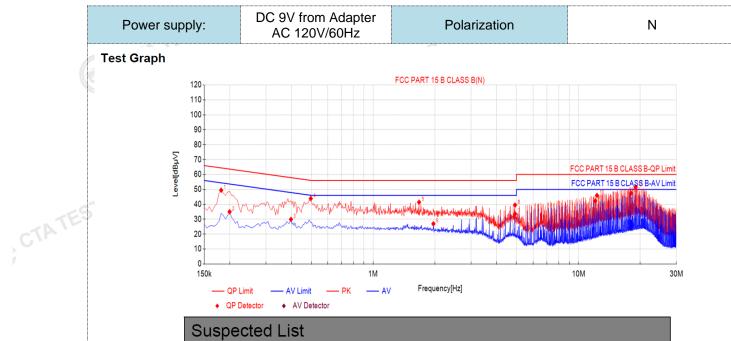
TEST RESULTS

Remark: 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:



Note:1).Level($dB\mu V$)= Reading ($dB\mu V$)+ Factor (dB) 2). Factor (dB)=insertion loss of LISN (dB) + Cable loss (dB) 3). Margin(dB) =Limit (dBµV) -Level(dBµV)





Suspected List										
NO.	Freq. [MHz]	Reading [dBµV]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Detector	Туре	Verdict	
1	0.1815	38.97	49.47	10.50	64.42	14.95	PK	N	PASS	
2	0.1995	24.52	35.02	10.50	53.63	18.61	AV	N	PASS	
3	0.3975	19.43	29.93	10.50	47.91	17.98	AV	N	PASS	
4	0.4965	33.38	43.88	10.50	56.06	12.18	PK	N	PASS	
5	1.6755	30.92	41.42	10.50	56.00	14.58	PK	Ν	PASS	
6	1.968	16.46	26.96	10.50	46.00	19.04	AV	N	PASS	
7	4.9245	23.10	33.60	10.50	46.00	12.40	AV	N	PASS	
8	4.9245	29.02	39.52	10.50	56.00	16.48	PK	Ν	PASS	
9	12.0615	31.79	42.29	10.50	50.00	7.71	AV	Ν	PASS	
10	12.309	35.49	45.99	10.50	60.00	14.01	PK	Ν	PASS	
11	18.006	37.00	47.50	10.50	50.00	2.50	AV	N	PASS	
12	18.9915	41.13	51.63	10.50	60.00	8.37	PK	N	PASS	

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

2). Factor (dB)=insertion loss of LISN (dB) + Cable loss (dB) CTA TESTING

3). Margin(dB) =Limit (dBµV) -Level(dBµV)

4.2 **Radiated Emission**

Limit

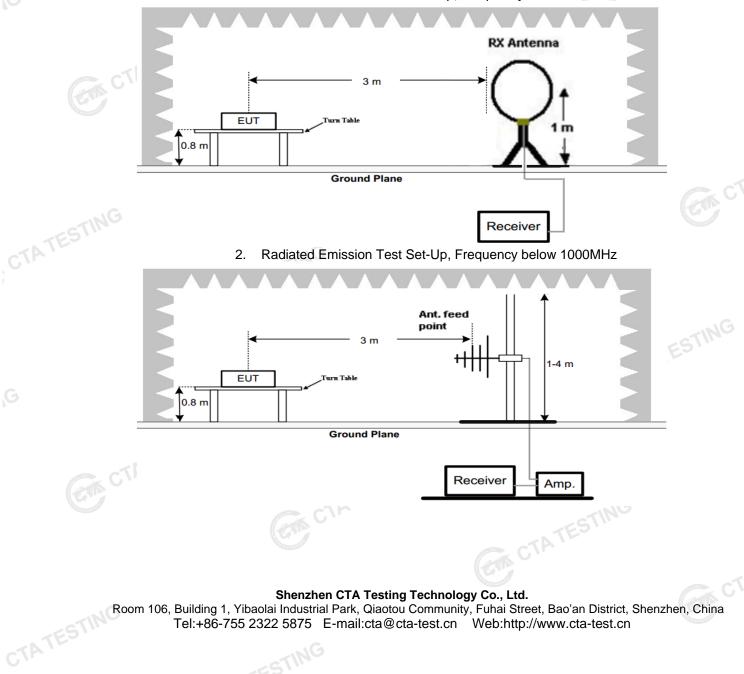
For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission out of authorized band shall not exceed the following table at a 3 meters measurement distance.

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)

_		Radi	iated emission limits	
	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)
10	0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)
TATE.	1.705-30	3	20log(30)+ 40log(30/3)	30
GV	30-88	3	40.0	100
	88-216	3	43.5	150
	216-960	3	46.0	200
	Above 960	3	54.0	500
<u> </u>			(AN)	FSTIT
т	EST CONFIGURATIO	N		ATA
_			aion Toot Sot Un, Fraguenov Bolow 20M	

TEST CONFIGURATION

1. Radiated Emission Test Set-Up, Frequency Below 30MHz



Test Procedure

- Below 1GHz measurement the EUT is placed on a turntable which is 0.8m above ground plane. 1.
- 2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0 $^{\circ}$ C to 360 $^{\circ}$ 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 GTA CTATE horizontal and vertical.
- 4. Repeat above procedures until all frequency measurements have been completed.
- Radiated emission test frequency band from 9KHz to 1000MHz. 5.
- 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							
Set	Setting test receiver/spectrum as following table states:									

eι	etting 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	S					
	30MHz-1GHz	RBW=120KHz/VBW=1000KHz,Sweep time=Auto	QP						
				-					

TEST RESULTS

7.

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)	
	0.1225(F)	58.89	Loop	23.64	0.01	82.54	105.84	23.30	PK
	0.1225(F)	49.01	Loop	23.64	0.01	72.66	85.84	13.18	AV
	0.110	36.79	Loop	23.55	0.01	60.35	106.78	46.43	PK
	0.110	28.80	Loop	23.55	0.01	52.36	86.78	34.42	AV
	0.245	24.75	Loop	25.07	-0.17	49.65	99.82	50.17	QP
C	1.225	13.39	Loop	27.12	-0.25	40.26	65.84	25.58	QP
	8.75	19.97	Loop	23.91	-0.24	43.64	69.54	25.90	QP
			15SIV						

Remark:

Data of measurement within this frequency range shown "-- in the table above means the reading of 1. CTATESTING emissions are attenuated more than 20dB below the permissible limits and not recorded.

2. The test limit distance is 3m limit.

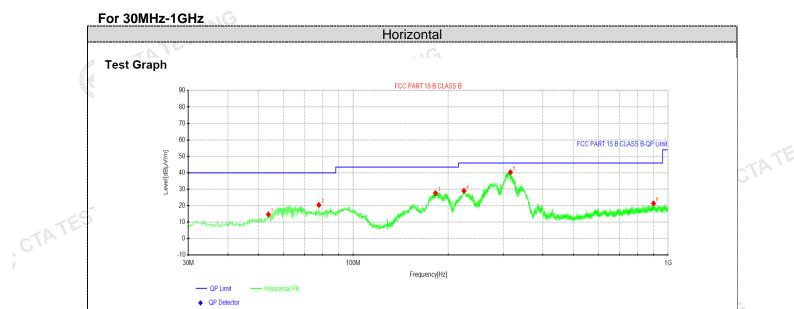
PK means Peak Value, QP means Quasi Peak Value, AV means Average Value. 3.

F means Fundamental Frequency. 4.

Emission level (dBuV/m) =Reading + Antenna Factor + Cable Loss. 5.

6. Margin value = Limit value- Emission level.

CTATE



Suspected Data List

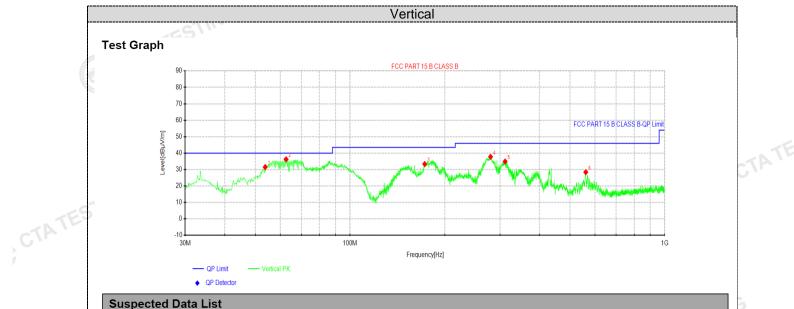
Suspected Data List										
NO.	Freq.	Reading	Level	Factor	Limit	Margin	Height	Angle	Polarity	
NO.	[MHz]	[dBµV]	[dBµV/m]	[dB/m]	[dBµV/m]	[dB]	[cm]	[°]	Folanty	
1	53.765	31.60	14.73	-16.87	40.00	25.27	100	140	Horizontal	
2	77.7725	41.72	20.49	-21.23	40.00	19.51	100	334	Horizontal	
3	182.411	48.04	27.65	-20.39	43.50	15.85	100	59	Horizontal	
4	224.727	47.72	29.07	-18.65	46.00	16.93	100	83	Horizontal	
5	315.665	57.39	40.36	-17.03	46.00	5.64	100	261	Horizontal	
6	898.756	30.59	21.40	-9.19	46.00	24.60	100	107	Horizontal	

Note:1).Level (dBµV/m)= Reading (dBµV/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)

CON CTATE



Ouspected Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	53,765	48.40	31.53	-16.87	40.00	8.47	100	179	Vertical	
	55.765	40.40	51.55	-10.07	40.00	0.47	100	179	vertical	
2	62.6162	55.18	36.27	-18.91	40.00	3.73	100	220	Vertical	
3	172.711	54.28	33.38	-20.90	43.50	10.12	100	360	Vertical	
4	279.653	55.49	37.79	-17.70	46.00	8.21	100	9	Vertical	
5	311.057	52.12	34.94	-17.18	46.00	11.06	100	3	Vertical	
6	561.317	41.72	28.44	-13.28	46.00	17.56	100	9	Vertical	

Note:1).Level (dBµV/m)= Reading (dBµV/m)+ Factor (dB/m)

2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB)

3). Margin(dB) = Limit (dBµV/m) - Level (dBµV/m)

4.3 **Occupied Bandwidth**



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

TEST RESULTS

<u>LIMIT</u>		CTATE		
The 20dB bandwidth	h shall be less than 8	0% of the permitted freque	ency band.	
TEST RESULTS				CIP CIP
Mode	Freq (KHz)	20dB Bandwidth (KHz)	99% OBW (KHz)	Conclusion
Tx Mode	122.5	2.854	2.419	PASS



Antenna Requirement 44

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 CTATE 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

Antenna Information

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

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5 Test Setup Photos of the EUT









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