

Test Report

Report No.: MTi231204020-19E1

Date of issue: 2024-01-04

Applicant: Shenzhen Caibo Technology Co., Ltd.

Product: 3 in 1 Magnetic Wireless Charger

Model(s): T6

FCC ID: 2AXTH-T6

Shenzhen Microtest Co., Ltd.

http://www.mtitest.com



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Test Result Certification				
Applicant: Shenzhen Caibo Technology Co., Ltd.				
Address:	F4, Building 30, Fifth Industrial Zone, Huaide Cuigang Industrial Park, Fu Yong, Bao'an District, Shenzhen China.			
Manufacturer:	Shenzhen Caibo Technology Co., Ltd.			
Address:	F4, Building 30, Fifth Industrial Zone, Huaide Cuigang Industrial Park, Fu Yong, Bao'an District, Shenzhen China.			
Factory:	Shenzhen Caibo Technology Co., Ltd.			
Address:	F4, Building 30, Fifth Industrial Zone, Huaide Cuigang Industrial Park, Fu Yong, Bao'an District, Shenzhen China.			
Product description				
Product name:	3 in 1 Magnetic Wireless Charger			
Trademark:	KOAKUMA			
Model name:	Т6			
Series Model(s):	N/A			
Standards:	47 CFR Part 15C			
Test Method:	ANSI C63.10-2013			
Date of Test				
Date of test:	2023-12-07 to 2023-12-14			
Test result:	Pass			

Test Engineer	:	Marleon Davy	
		(Maleah Deng)	
Reviewed By	:	leon chen	
		(Leon Chen)	
Approved By	:	Tom Xue	
		(Tom Xue)	



1 General Description

1.1 Description of the EUT

Product name:	3 in 1 Magnetic Wireless Charger		
Model name:	Т6		
Series Model(s):	N/A		
Model difference:	N/A		
Electrical rating:	Input: 5V-3A, 9V-3A, 12V-3A MAX Wireless Output: phone: 5W,7.5W,10W,15W; Wireless Earbuds: 3W iWatch: 2.5W		
Accessories:	N/A		
Hardware version:	T6-9516-V2		
Software version:	0x00422D05		
Test sample(s) number:	MTi231204020-19S1001		
RF specification			
Operating frequency range:	Transmitter1 (Phone): 115-205KHz Transmitter2 (Wireless Earbuds): 115-205KHz Transmitter3 (iWatch): 300-350KHz		
Modulation type:	ASK		
Antenna(s) type:	Coil Antenna		
2 Description of test modes			

1.2 Description of test modes

No.	Emission test modes
Mode1	Wireless output(5W)+Wireless Earbuds(3W)+iWatch(2.5W)
Mode2	Wireless output(7.5W)+Wireless Earbuds(3W)+iWatch(2.5W)
Mode3	Wireless output(10W)+Wireless Earbuds(3W)+iWatch(2.5W)
Mode4	Wireless output(15W)+Wireless Earbuds(3W)+iWatch(2.5W)
Mode5	Wireless output(5W)+Wireless Earbuds(3W)
Mode6	Wireless output(7.5W)+Wireless Earbuds(3W)
Mode7	Wireless output(10W)+Wireless Earbuds(3W)
Mode8	Wireless output(15W)+Wireless Earbuds(3W)
Mode9	Wireless output(5W)+iWatch(2.5W)
Mode10	Wireless output(7.5W)+iWatch(2.5W)
Mode11	Wireless output(10W)+iWatch(2.5W)
Mode12	Wireless output(15W)+iWatch(2.5W)
Mode13	Wireless Earbuds(3W)+iWatch(2.5W)
Mode14	Wireless output(5W)
Mode15	Wireless output(7.5W)
Mode16	Wireless output(10W)

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Mode17	Wireless output(15W)
Mode18	iWatch(2.5W)
Mode19	Wireless Earbuds(3W)
Mode20	stand by



1.3 Environmental Conditions

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

Temperature:	15°C ~ 35°C
Humidity:	20% RH ~ 75% RH
Atmospheric pressure:	98 kPa ~ 101 kPa

1.4 Description of support units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Support equipment list						
Description Model		Serial No.	Manufacturer			
Lenovo Laptop Portable adapter (65W)	LS-65WTAQCPD	31088453SH94303G	Lenovo			
iWatch iwatch 7		1	apple			
airpods airpods 3		1	apple			
wireless charging load YBZ1.1		1	YBZ			
Support cable list						
Description	Length (m)	From	То			
1 1		1	1			

1.5 Measurement uncertainty

Measurement	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	±3.1dB
Occupied channel bandwidth	±3 %
Radiated spurious emissions (9kHz~30MHz)	±4.3dB
Radiated spurious emissions (30MHz~1GHz)	±4.7dB
Temperature	±1 °C
Humidity	± 5 %

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



2 Summary of Test Result

No.	Item	Standard	Requirement	Result
1	Antenna requirement	47 CFR Part 15C	47 CFR Part 15.203	Pass
2	Conducted Emission at AC power line	47 CFR Part 15C	47 CFR Part 15.207(a)	Pass
3	20dB Occupied Bandwidth	47 CFR Part 15C	47 CFR Part 15.215(c)	Pass
4	Emissions in frequency bands (below 30MHz)	47 CFR Part 15C	47 CFR Part 15.209	Pass
5	Emissions in frequency bands (30MHz - 1GHz)	47 CFR Part 15C	47 CFR Part 15.209	Pass



3 Test Facilities and accreditations

3.1 Test laboratory

Test laboratory:	Shenzhen Microtest Co., Ltd.			
Test site location:	101, No.7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China			
Telephone:	(86-755)88850135			
Fax:	(86-755)88850136			
CNAS Registration No.:	CNAS L5868			
FCC Registration No.:	448573			
IC Registration No.:	21760			
CABID:	CN0093			



4 List of test equipment

Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due	
Conducted Emission at AC power line						
EMI Test Receiver	Rohde&schwarz	ESCI3	101368	2023-04-26	2024-04-25	
Artificial mains network	Schwarzbeck	NSLK 8127	183	2023-05-05	2024-05-04	
Artificial Mains Network	Rohde & Schwarz	ESH2-Z5	100263	2023-06-03	2024-06-02	
	20dB Oc	cupied Bandwid	th			
Wideband Radio Communication Tester	Rohde&schwarz	CMW500	149155	2023-04-26	2024-04-25	
ESG Series Analog Ssignal Generator	Agilent	E4421B	GB40051240	2023-04-25	2024-04-24	
PXA Signal Analyzer	Agilent	N9030A	MY51350296	2023-04-25	2024-04-24	
Synthesized Sweeper	Agilent	83752A	3610A01957	2023-04-25	2024-04-24	
MXA Signal Analyzer	Agilent	N9020A	MY50143483	2023-04-26	2024-04-25	
RF Control Unit	Tonscend	JS0806-1	19D8060152	2023-04-26	2024-04-25	
Band Reject Filter Group	Tonscend	JS0806-F	19D8060160	2023-05-05	2024-05-04	
ESG Vector Signal Generator	Agilent	N5182A	MY50143762	2023-04-25	2024-04-24	
DC Power Supply	Agilent	E3632A	MY40027695	2023-05-05	2024-05-04	
	Emissions in frequ	ency bands (bel	ow 30MHz)			
EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2023-04-26	2024-04-25	
Active Loop Antenna	Schwarzbeck	FMZB 1519 B	00066	2023-06-11	2025-06-10	
Amplifier	Hewlett-Packard	8447F	3113A06184	2023-06-26	2024-06-25	
	Emissions in freque	ency bands (30N	ЛHz - 1GHz)			
EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2023-04-26	2024-04-25	
TRILOG Broadband Antenna	schwarabeck	VULB 9163	9163-1338	2023-06-11	2025-06-10	
Active Loop Antenna	Schwarzbeck	FMZB 1519 B	00066	2023-06-11	2025-06-10	
Amplifier	Hewlett-Packard	8447F	3113A06184	2023-06-26	2024-06-25	
Multi-device Controller	TuoPu	TPMDC	1	2023-05-04	2024-05-03	
	EMI Test Receiver Artificial mains network Artificial Mains Network Wideband Radio Communication Tester ESG Series Analog Ssignal Generator PXA Signal Analyzer Synthesized Sweeper MXA Signal Analyzer RF Control Unit Band Reject Filter Group ESG Vector Signal Generator DC Power Supply EMI Test Receiver Active Loop Antenna Amplifier EMI Test Receiver TRILOG Broadband Antenna Active Loop Antenna Active Loop Antenna Active Loop Antenna	EMI Test Receiver Rohde&schwarz Artificial mains network Schwarzbeck Artificial Mains Network Rohde & Schwarz 20dB Octoor Wideband Radio Communication Tester ESG Series Analog Ssignal Generator PXA Signal Analyzer Agilent Synthesized Sweeper Agilent MXA Signal Analyzer Agilent RF Control Unit Tonscend Band Reject Filter Group Tonscend ESG Vector Signal Generator Agilent DC Power Supply Agilent Emissions in frequence EMI Test Receiver Rohde&schwarz Active Loop Antenna Schwarzbeck Amplifier Rohde&schwarz TRILOG Broadband Antenna Schwarzbeck Amplifier Revelver Rohde&schwarz TRILOG Broadband Antenna Schwarzbeck Amplifier Hewlett-Packard Emissions in frequence Rohde&schwarz Rohde&schwarz	Conducted Emission at AC po EMI Test Receiver Rohde&schwarz ESCI3 Artificial mains network Schwarzbeck NSLK 8127 Artificial Mains Network Rohde & Schwarz 20dB Occupied Bandwidd Wideband Radio Communication Tester ESG Series Analog Ssignal Generator PXA Signal Analyzer Agilent N9030A Synthesized Sweeper Agilent N9030A Synthesized Sweeper Agilent N9020A RF Control Unit Tonscend JS0806-1 Band Reject Filter Group Tonscend JS0806-1 Band Reject Filter Group Tonscend JS0806-F ESG Vector Signal Generator Agilent N5182A DC Power Supply Agilent E3632A Emissions in frequency bands (being EMI Test Receiver Rohde&schwarz ESCI7 Active Loop Antenna Schwarzbeck FMZB 1519 B Amplifier Hewlett-Packard Schwarz ESCI7 TRILOG Broadband Antenna Schwarzbeck FMZB 1519 B Amplifier Hewlett-Packard FMZB 1519 B Amplifier Rohde&schwarz ESCI7 TRILOG Broadband Schwarzbeck FMZB 1519 B Amplifier FMZB 1519 B Amplifier FMZB 1519 B	EMI Test Receiver Rohde&schwarz ESCI3 101368 Artificial mains network Schwarzbeck NSLK 8127 183 Artificial Mains Network Rohde & Schwarz ESH2-Z5 100263 20dB Occupied Bandwidth Wideband Radio Communication Tester ESG Series Analog Signal Generator Rohde&schwarz CMW500 149155 ESG Series Analog Signal Generator Agilent E4421B GB40051240 PXA Signal Analyzer Agilent N9030A MY51350296 Synthesized Sweeper Agilent N9020A MY51350296 Synthesized Sweeper Agilent N9020A MY50143483 RF Control Unit Tonscend JS0806-1 19D8060152 Band Reject Filter Group Tonscend JS0806-F 19D8060160 ESG Vector Signal Generator Agilent N5182A MY50143762 DC Power Supply Agilent E3632A MY40027695 Emissions in frequency bands (below 30MHz) EMI Test Receiver Rohde&schwarz ESCI7 101166 Active Loop Antenna <td> Conducted Emission at AC power line </td>	Conducted Emission at AC power line	



5 Evaluation Results (Evaluation)

5.1 Antenna requirement

Test Requirement:	Refer to 47 CFR Part 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 shall be considered sufficient to comply with the provisions of this section.
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5.1.1 Conclusion:

The antenna of the EUT is permanently attached.

The EUT complies with the requirement of FCC PART 15.203.



6 Radio Spectrum Matter Test Results (RF)

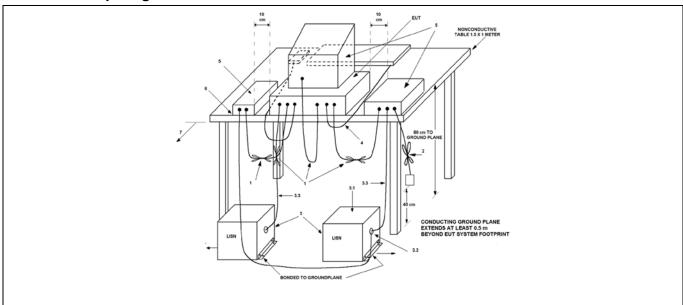
6.1 Conducted Emission at AC power line

Test Requirement:	Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 µH/50 ohms line impedance stabilization network (LISN).						
Test Limit:	Frequency of emission (MHz) Conducted limit (dBµV)						
		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.						
Test Method:	ANSI C63.10-2013 section 6.2						
Procedure:	Refer to ANSI C63.10-2013 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices						

6.1.1 E.U.T. Operation:

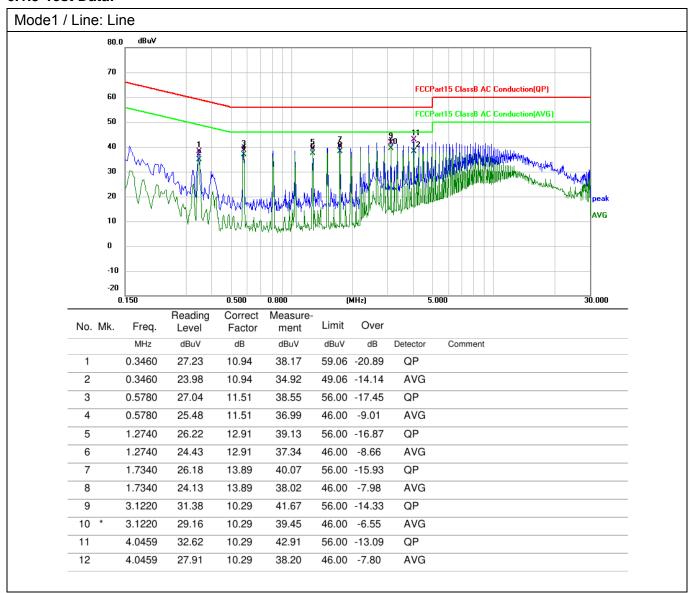
Operating Environment:							
Temperature:	25.3 °C		Humidity:	51 %	Atmospheric Pressure:	101 kPa	
Pre test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7, Mode8, Mode9, Pre test mode: Mode10, Mode11, Mode12, Mode13, Mode14, Mode15, Mode16, Mode17, Mode18, Mode19, Mode20						
Final test mode	Final test mode: All of the listed pre-test mode were tested, only the data of the worst mode (Mode1) is recorded in the report						

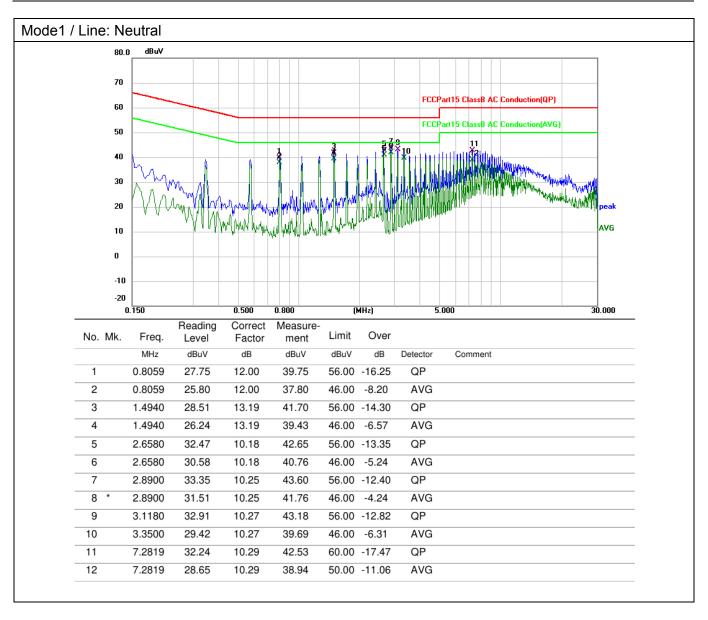
6.1.2 Test Setup Diagram:





6.1.3 Test Data:







6.2 20dB Occupied Bandwidth

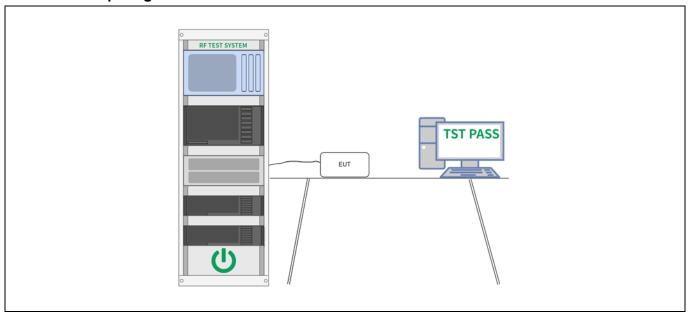
Test Requirement:	47 CFR Part 15.215(c)
Test Limit:	Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.
Test Method:	ANSI C63.10-2013, section 6.9.2
Procedure:	a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW. b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement. c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2. d) Steps a) through c) might require iteration to adjust within the specified tolerances. e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target "-xx dB down" requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value. f) Set detection mode to peak and trace mode to max hold. g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value). h) Determine the "-xx dB down amplitude" using [(reference value) - xx]. Alternatively, this calculation may be made by using the marker-delta function of the instrument. l) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j). j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that the marker is at or slightly below the "-xx dB dow
	,



6.2.1 E.U.T. Operation:

Operating Environment:							
Temperature:	25 °C		Humidity:	59 %	Atmospheric Pressure:	99 kPa	
Pre test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7, Mode8, Mode9,						
Final test mode: All of the listed pre-test mode were tested, only the data of the worst mode (Mode17, Mode18, Mode19) is recorded in the report						of the worst mode	

6.2.2 Test Setup Diagram:

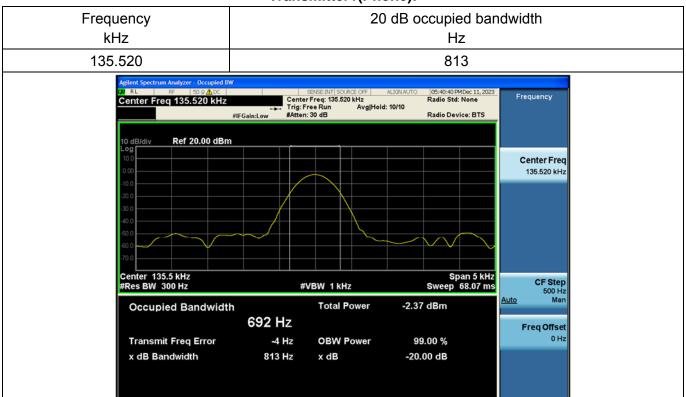




6.2.3 Test Data:

Note: Because the measured signal is CW-like, adjusting the RBW per C63.10 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 300 Hz to perform the occupied bandwidth test.

Transmitter1(Phone):



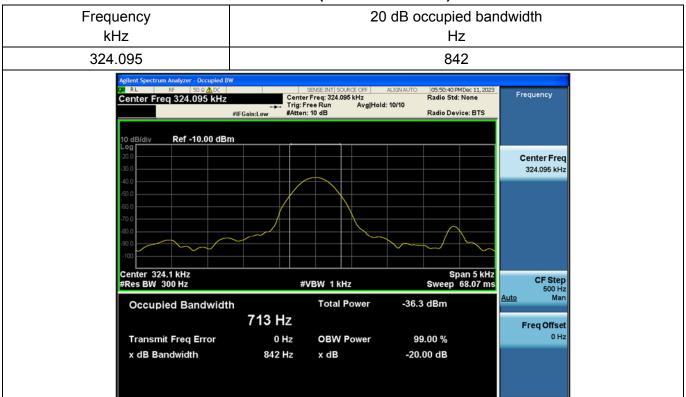
Note: Because the measured signal is CW-like, adjusting the RBW per C63.10 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 300 Hz to perform the occupied bandwidth test.

Transmitter2(Wireless Earbuds):



Note: Because the measured signal is CW-like, adjusting the RBW per C63.10 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 300 Hz to perform the occupied bandwidth test.

Transmitter3(Wireless Earbuds):





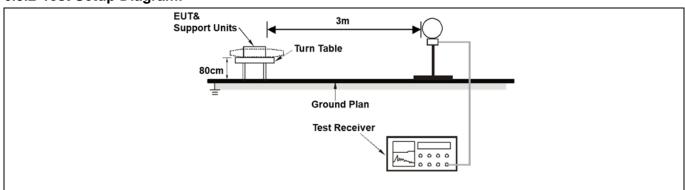
6.3 Emissions in frequency bands (below 30MHz)

Test Requirement:	47 CFR Part 15.209				
Test Limit:	Frequency (MHz)	Field strength	Measuremen		
		(microvolts/meter)	t distance		
			(meters)		
	0.009-0.490	2400/F(kHz)	300		
	0.490-1.705	24000/F(kHz)	30		
	1.705-30.0	30	30		
	30-88	100 **	3		
	88-216	150 **	3		
	216-960	200 **	3		
	Above 960	500	3		
	** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector. As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a)and (b)of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b)of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.				
Test Method: Procedure:	ANSI C63.10-2013 sec				
i locedule.	ANSI C63.10-2013 sec	1011 0.4			

6.3.1 E.U.T. Operation:

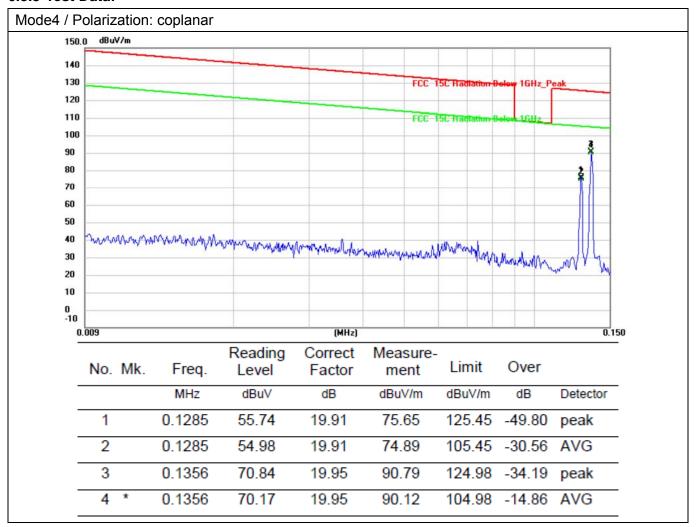
Operating Environment:							
Temperature:	22.5 °C		Humidity:	43 %	Atmospheric Pressure:	101 kPa	
Pre test mode: Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7, Mode8, Mode9, Mode10, Mode11, Mode12, Mode13, Mode14, Mode15, Mode16, Mode17, Mode18, Mode19, Mode20							
Final test mode: All of the listed pre-test mode were tested, only the data of the worst mode (Mode4) is recorded in the report					of the worst mode		

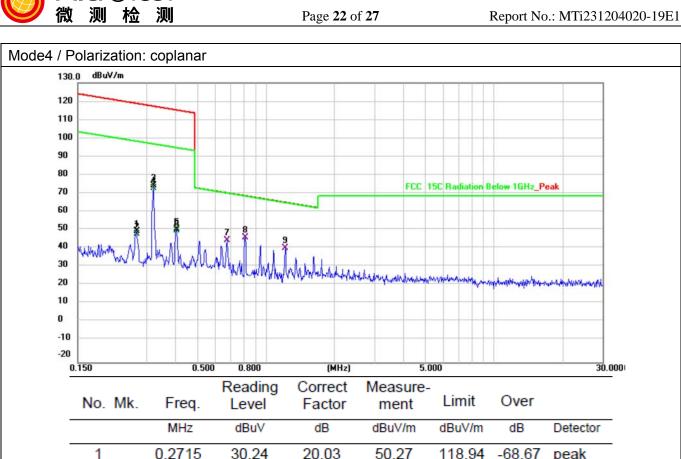
6.3.2 Test Setup Diagram:





6.3.3 Test Data:





No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		0.2715	30.24	20.03	50.27	118.94	-68.67	peak
2		0.2715	28.60	20.03	48.63	98.94	-50.31	AVG
3		0.3240	54.92	19.97	74.89	117.42	-42.53	peak
4		0.3240	53.62	19.97	73.59	97.42	-23.83	AVG
5		0.4061	31.49	19.88	51.37	115.43	-64.06	peak
6		0.4061	30.95	19.88	50.83	95.43	-44.60	AVG
7		0.6790	25.79	19.73	45.52	70.97	-25.45	QP
8	*	0.8130	27.11	19.71	46.82	69.41	-22.59	QP
9		1.2161	21.50	19.69	41.19	65.93	-24.74	QP



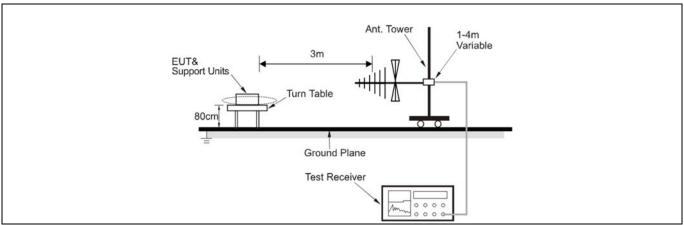
6.4 Emissions in frequency bands (30MHz - 1GHz)

Test Requirement:	47 CFR Part 15.209				
Test Limit:	Frequency (MHz)	Field strength	Measuremen		
		(microvolts/meter)	t distance		
			(meters)		
	0.009-0.490	2400/F(kHz)	300		
	0.490-1.705	24000/F(kHz)	30		
	1.705-30.0	30	30		
	30-88	100 **	3		
	88-216	150 **	3		
	216-960	200 **	3		
	Above 960	500	3		
Toot Mothod:	** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector. As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a)and (b)of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b)of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.				
Test Method: Procedure:	ANSI C63.10-2013 sec ANSI C63.10-2013 sec				
i ioocaaio.	ANSI Cos. 10-2013 Sec	UUII 0.3			

6.4.1 E.U.T. Operation:

Operating Environment:							
Temperature:	22.5 °C		Humidity:	43 %	Atmospheric Pressure:	101 kPa	
Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7, Mode8, Mode9, Pre test mode: Mode10, Mode11, Mode12, Mode13, Mode14, Mode15, Mode16, Mode17, Mode18, Mode19, Mode20							
Final test mode: All of the listed pre-test mode were tested, only the data of the worst mode (Mode4) is recorded in the report					of the worst mode		

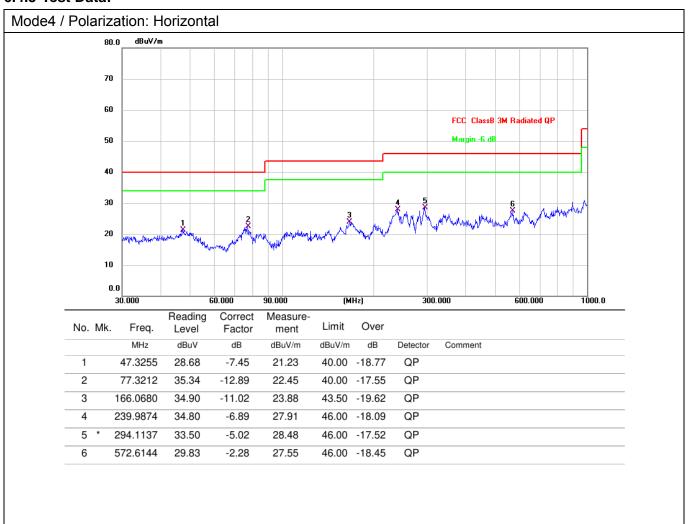
6.4.2 Test Setup Diagram:



Address: 101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China Tel: (86-755)88850135 Fax: (86-755) 88850136 Web: www.mtitest.com E-mail: mti@51mti.com



6.4.3 Test Data:



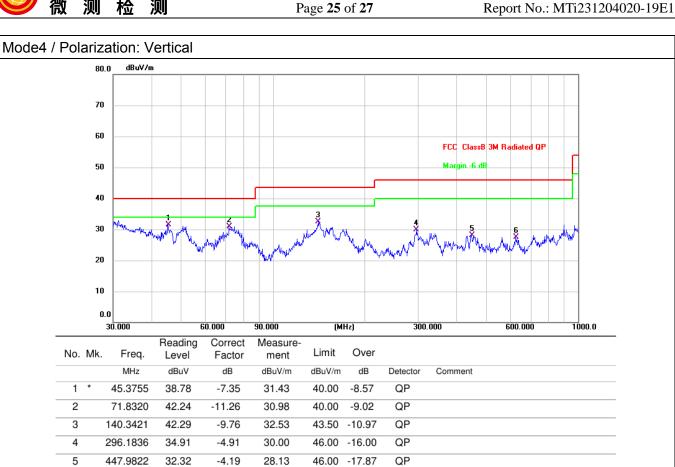
6

625.0780

27.48

-0.05

27.43



46.00 -18.57

QP



Photographs of the test setup

Refer to Appendix - Test Setup Photos



Photographs of the EUT

Refer to Appendix - EUT Photos

----End of Report----