

# **Test Report**

**Report No.:** MTi240318003-14E1

**Date of issue:** 2024-04-23

**Applicant:** Dongguan Youzhichong Electronics Co., Ltd

**Product:** power bank

Model(s): YZ001

FCC ID: 2BFSV-YZ001

Shenzhen Microtest Co., Ltd. http://www.mtitest.cn



# Instructions

- 1. This test report shall not be partially reproduced without the written consent of the laboratory.
- 2. The test results in this test report are only responsible for the samples submitted
- 3. This test report is invalid without the seal and signature of the laboratory.
- 4. This test report is invalid if transferred, altered, or tampered with in any form without authorization.
- 5. Any objection to this test report shall be submitted to the laboratory within 15 days from the date of receipt of the report.

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**Test Result Certification** Applicant: Dongguan Youzhichong Electronics Co., Ltd Building 3, No. 16 Yi'an West Road, Yantian Village, Fenggang Town, Address: **Dongguan City** Manufacturer: Dongguan Youzhichong Electronics Co., Ltd Building 3, No. 16 Yi'an West Road, Yantian Village, Fenggang Town, Address: Dongguan City **Product description** Product name: power bank Trademark: **OIZNIAT** Model name: YZ001 N/A Series Model(s): Standards: 47 CFR Part 15C Test Method: ANSI C63.10-2013 **Date of Test** Date of test: 2024-04-03 to 2024-04-20 Test result: Pass

Test Engineer	:	Yanice Xie
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Reviewed By	:	Dowid. Cel
		(David Lee)
Approved By	:	leon chen
		(Leon Chen)



# 1 General Description

## 1.1 Description of the EUT

Product name:	power bank
Model name:	YZ001
Series Model(s):	N/A
Model difference:	N/A
Electrical rating:	Input:100V~240V 50/60Hz 0.5A AC Charger:5V=3A(15W) Type-C:PD 5V=3A,9V=2A,12V=1.5A Wireless:15W Max(15W/10W/7.5W/5W) Output-C:PD20W 5V=3A,9V=2.22A,12V=1.67A Output-A:QC3.0 5V=2A,9V=2A,12V=1.5A Cable Output(Type-C):5V=3A Cable Output(Lightning):5V=3A Total Output:Cable+Type-C+USB+Wireless:5V=3A Battery:DC 3.7V 5000mAh 18.5Wh
Accessories:	N/A
Hardware version:	H312-V1.0
Software version:	RoHS
Test sample(s) number:	MTi240318003-14S1001
RF specification	
Operating frequency range:	115-205kHz
Modulation type:	ASK
Antenna(s) type:	Coil Antenna

#### 1.2 Description of test modes

No.	Emission test modes	
Mode1	AC Input+Wireless Output(5W)	
Mode2	Type-C Input+Wireless Output(5W)	
Mode3 Wireless Output(5W)		
Mode4	Wireless Output(7.5W)	
Mode5	Wireless Output(10W)	
Mode6	Wireless Output(15W)	
Mode7 Standby		



#### 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				
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 Od	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	2023-04-25	2024-04-24	
	Emissions in freque	ency bands (30N	/lHz - 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	2023-04-25	2024-04-24	
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	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  DC Power Supply Agilent  Emissions in frequence EMI Test Receiver Rohde&schwarz  Active Loop Antenna Schwarzbeck  Amplifier Roeiver Rohde&schwarz  TRILOG Broadband Antenna Schwarzbeck  Amplifier Hewlett-Packard  Active Loop Antenna Schwarzbeck  Amplifier Hewlett-Packard  Emissions in frequence Rohde&schwarz  Rohde&schwarz	Conducted Emission at AC por  EMI Test Receiver Rohde&schwarz ESCI3  Artificial mains network Schwarzbeck NSLK 8127  Artificial Mains Network Rohde & Schwarz  20dB Occupied Bandwid  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-F  ESG Vector Signal Generator Agilent N5182A  DC Power Supply Agilent E3632A  Emissions in frequency bands (bel EMI Test Receiver Rohde&schwarz ESCI7  Active Loop Antenna Schwarzbeck FMZB 1519 B  Amplifier Rohde&schwarz ESCI7  TRILOG Broadband Antenna Schwarzbeck FMZB 1519 B  Amplifier Hewlett-Packard FMZB 1519 B  Amplifier Rohde&schwarz FMZB 1519 B  Amplifier Rohde&schwarz ESCI7  FMZB 1519 B  Amplifier FMZB 1519 B	Conducted Emission at AC power line  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 Ssignal Generator Agilent PXA Signal Analyzer Agilent N9030A MY51350296  Synthesized Sweeper Agilent N9030A 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 Schwarzbeck FMZB 1519 B 00066  Amplifier Hewlett-Packard 8447F 3113A06184  Emissions in frequency bands (30MHz - 1GHz)  EMI Test Receiver Rohde&schwarz ESCI7 101166  TRILOG Broadband Antenna Schwarzbeck FMZB 1519 B 00066  Amplifier Hewlett-Packard FMZB 1519 B 00066  Amplifier Rohde&schwarz ESCI7 101166  TRILOG Broadband Antenna Schwarzbeck FMZB 1519 B 00066  Amplifier Hewlett-Packard FMZB 1519 B 00066	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)

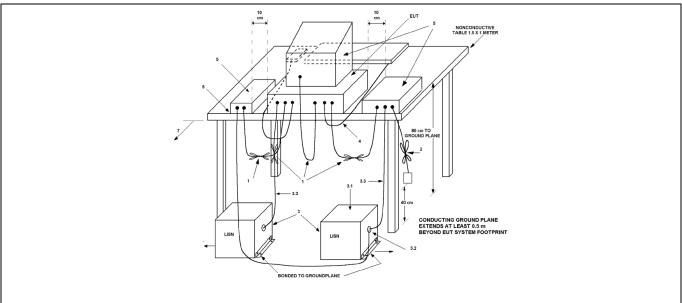
## 6.1 Conducted Emission at AC power line

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 o 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)		<u>'</u> )			
		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					

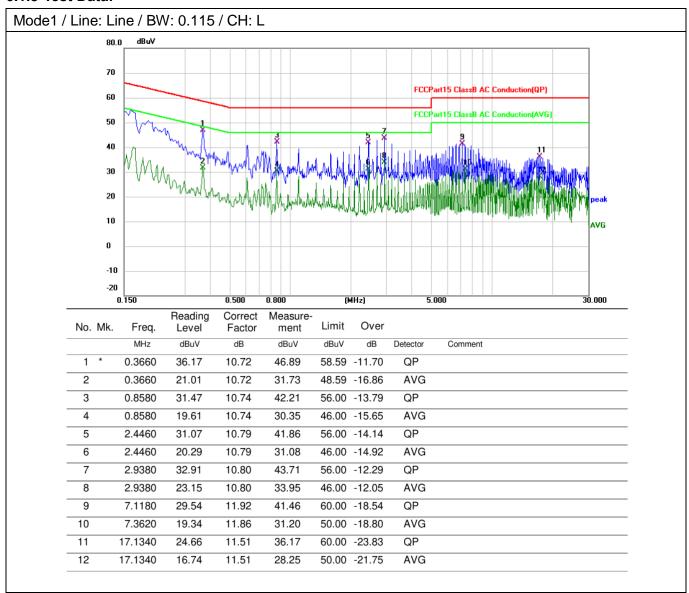
#### 6.1.1 E.U.T. Operation:

Operating Environment:							
Temperature:	Temperature: 25.9 °C Humidity: 44 % Atmospheric Pressure: 101 kPa						
Pre test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7						
i Final test mode.			•	re-test mode w ded in the repo	ere tested, only the data ort	of the worst mode	

#### 6.1.2 Test Setup Diagram:



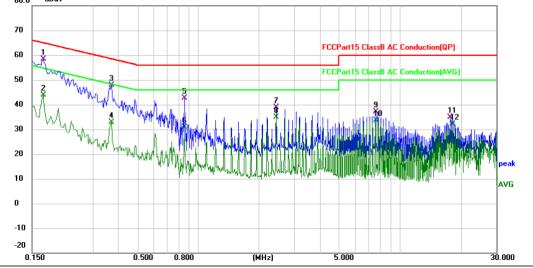
#### 6.1.3 Test Data:



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Mode1 / Line: Neutral / BW: 0.115 / CH: L

80.0 dBuv



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1700	47.33	11.10	58.43	64.96	-6.53	QP	
2		0.1700	32.75	11.10	43.85	54.96	-11.11	AVG	
3		0.3700	37.11	10.74	47.85	58.50	-10.65	QP	
4		0.3700	22.03	10.74	32.77	48.50	-15.73	AVG	
5		0.8540	31.97	10.76	42.73	56.00	-13.27	QP	
6		0.8540	20.17	10.76	30.93	46.00	-15.07	AVG	
7		2.4420	28.16	10.80	38.96	56.00	-17.04	QP	
8		2.4420	24.07	10.80	34.87	46.00	-11.13	AVG	
9		7.5660	26.04	11.01	37.05	60.00	-22.95	QP	
10		7.5660	22.74	11.01	33.75	50.00	-16.25	AVG	
11		17.7540	23.43	11.54	34.97	60.00	-25.03	QP	
12		18.2500	20.66	11.57	32.23	50.00	-17.77	AVG	



## 6.2 20dB Occupied Bandwidth

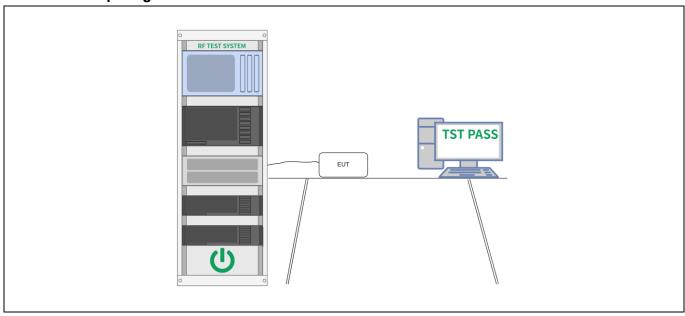
Test Requirement:	47 CFR Part 15.215(c)
Test Limit:	Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of 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
Test Method: 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. i) 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 each marker is at
	or slightly below the "-xx dB down amplitude" value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the "-xx dB down amplitude" determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.  k) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).



## 6.2.1 E.U.T. Operation:

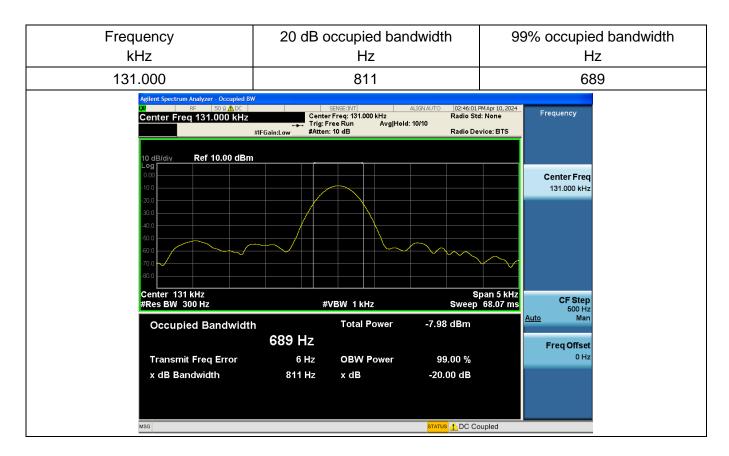
Operating Environment:							
Temperature:	Temperature: 25.9 °C Humidity: 45 % Atmospheric Pressure: 101 kPa						101 kPa
Pre test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7						
			the listed p			rere tested, only the data ort	of the worst mode

## 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.





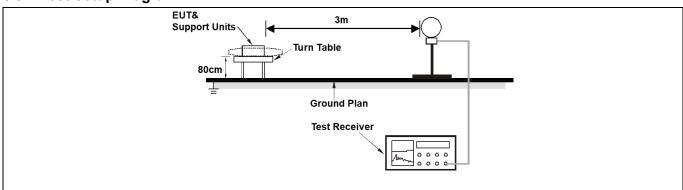
## 6.3 Emissions in frequency bands (below 30MHz)

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 a frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under oth 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 measurement employing a CISPR quasi-peak detector except for the frequency bands kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in the three bands are based on measurements employing an average detector As shown in § 15.35(b), for frequencies above 1000 MHz, the field strend 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 any condition of modulation. For point-to-point operation under paragrap (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.				
Test Method:	ANSI C63.10-2013 sec				
Procedure:	ANSI C63.10-2013 sec	tion 6.4			

## 6.3.1 E.U.T. Operation:

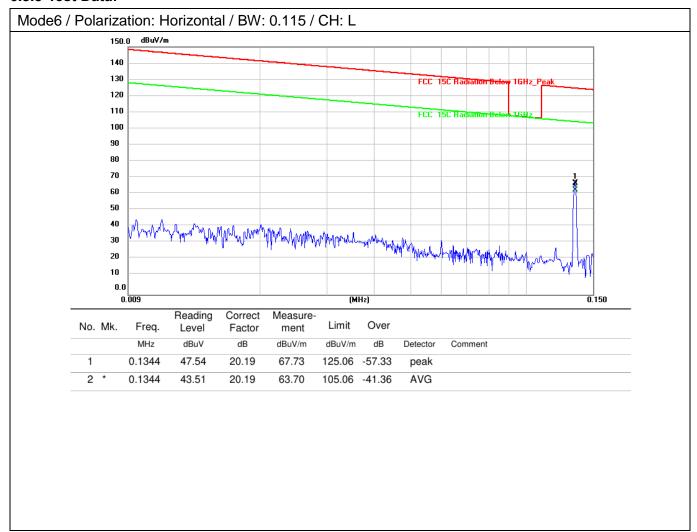
Operating Environment:								
Temperature:	Temperature: 16.1 °C Humidity: 37.1 % Atmospheric Pressure: 101 kPa							
Pre test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7							
i Final test mode.			•	re-test mode w ded in the repo	ere tested, only the data ort	of the worst mode		

#### 6.3.2 Test Setup Diagram:





#### 6.3.3 Test Data:



7

8

0.9431

1.2098

18.51

16.78

20.55

20.59

39.06

37.37

Report No.: MTi240318003-14E1 Mode6 / Polarization: Vertical / BW: 0.115 / CH: L 130.0 120 110 100 90 80 FCC 15C Radiation Below 1GHz\_Peak 70 60 50 40 30 eget kyderafaantiilustyste taalaaniyaffi syste 20 10 0 -10 -20 0.150 0.500 0.800 (MHz) 5.000 30.000 Reading Correct Measure-Limit Over No. Mk. Freq. Level Factor ment MHz dBuV dB dBuV/m dBuV/m dB Detector Comment 1 0.2672 32.87 20.30 53.17 119.08 -65.91 peak 2 0.2672 30.40 20.30 50.70 99.08 -48.38 AVG 3 0.4040 33.30 20.34 115.48 -61.84 53.64 peak 4 0.4040 29.86 20.34 50.20 95.48 -45.28 AVG QP 5 0.5378 21.43 20.39 41.82 72.99 -31.17 6 0.6719 25.22 20.44 45.66 71.07 -25.41 QP

68.13 -29.07

-28.60

65.97

QP

QP



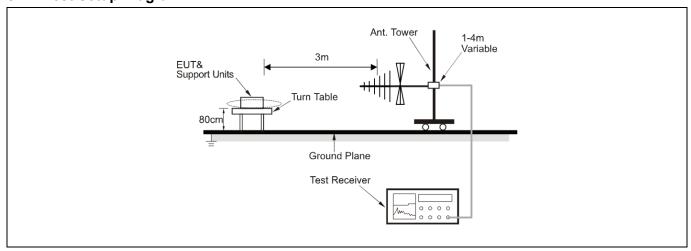
## 6.4 Emissions in frequency bands (30MHz - 1GHz)

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				
	** 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 measurement employing a CISPR quasi-peak detector except for the frequency bands kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in the three bands are based on measurements employing an average detector. As shown in § 15.35(b), for frequencies above 1000 MHz, the field strengt 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 to 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:	ANSI C63.10-2013 sec						
Procedure:	ANSI C63.10-2013 sec	ion 6.5					

#### 6.4.1 E.U.T. Operation:

Operating Environment:							
Temperature:	Temperature: 22.5 °C Humidity: 43 % Atmospheric Pressure: 101 kPa						
Pre test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7						
Final test mode.			•	re-test mode w ded in the repo	ere tested, only the data or	of the worst mode	

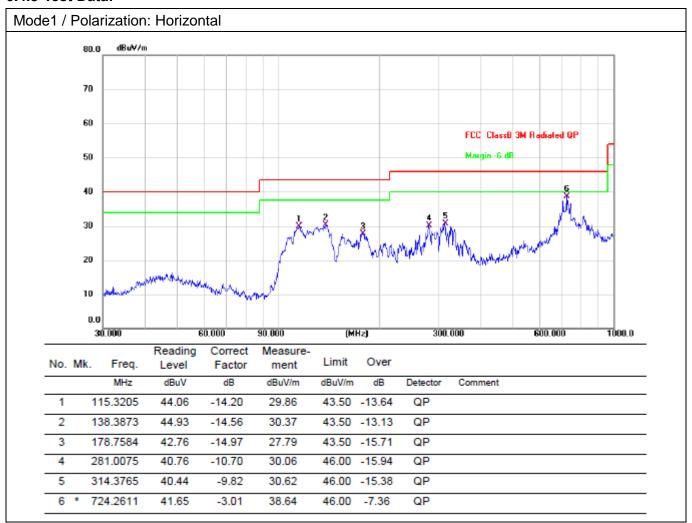
#### 6.4.2 Test Setup Diagram:



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.cn E-mail: mti@51mti.com



#### 6.4.3 Test Data:



115.7256

138.3873

155.9101

4

5

6

51.23

50.74

47.15

-14.16

-14.56

-14.70

37.07

36.18

32.45

43.50

43.50

-6.43

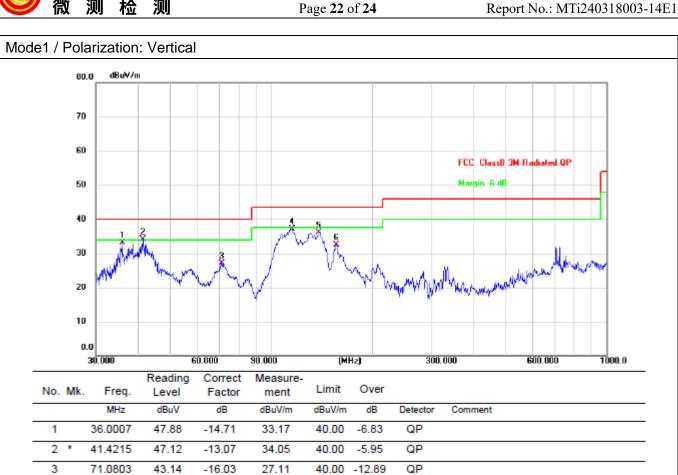
-7.32

43.50 -11.05

QP

QP

QP





# Photographs of the test setup

Refer to Appendix - Test Setup Photos.



# Photographs of the EUT

Refer to Appendix - EUT Photos

----End of Report----