

Test Report

Report No.: MTi240624012-01E1

Date of issue: 2024-12-13

Applicant: youqujile shenzhen chuangyi electronic technology co.,ltd

Product: Wireless Car Charger

Model(s): CB1005, CB3005, CB6005, CB7005, M12

FCC ID: 2BF7P-WCCH-1

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



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- 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.



Table of contents

1	Gene	eral Description	5
	1.1 1.2 1.3 1.4 1.5	Description of the EUT Description of test modes Environmental Conditions Description of support units Measurement uncertainty	5 6 6
2	Sum	mary of Test Result	7
3	Test	Facilities and accreditations	8
	3.1	Test laboratory	8
4	List	of test equipment	9
5	Eval	uation Results (Evaluation)	10
	5.1	Antenna requirement	10
6	Radi	io Spectrum Matter Test Results (RF)	11
	6.1 6.2 6.3 6.4	Conducted Emission at AC power line	14 17
Ph	otogr	aphs of the test setup	23
Ph	otogr	aphs of the EUT	24



Test Result Certification				
Applicant: youqujile shenzhen chuangyi electronic technology co.,ltd				
Address:	Room 101, Building A, No.5 Yanhe Rd, 3rd Industry Zone, Bantian ST, Longgang, Shenzhen			
Manufacturer:	youqujile shenzhen chuangyi electronic technology co.,ltd			
Address:	Room 101, Building A, No.5 Yanhe Rd, 3rd Industry Zone, Bantian ST, Longgang, Shenzhen			
Product description				
Product name:	Wireless Car Charger			
Trademark:	N/A			
Model name:	CB1005			
Series Model(s):	CB3005,CB6005,CB7005,M12			
Standards:	47 CFR Part 15C			
Test Method:	ANSI C63.10-2013			
Date of Test				
Date of test:	2024-11-06 to 2024-12-12			
Test result:	Pass			

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



1 General Description

1.1 Description of the EUT

Product name:	Wireless Car Charger		
Model name:	CB1005		
Series Model(s):	CB3005,CB6005,CB7005,M12		
Model difference:	All the models are the same circuit and module, except the model name and appearance.		
Electrical rating:	Input: DC 9V/2A, 12V/1.5A Output:5W/7.5W/10W/15W Max		
Accessories:	 Cable:USB-A to type-C 1m Base support*1 Air outlet clamp*1 		
Hardware version:	V1.1		
Software version:	V1.0		
Test sample(s) number:	MTi240624012-01S1001		
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	Wireless Output(5W)
Mode2	Wireless Output(7.5W)
Mode3	Wireless Output(10W)
Mode4	Wireless Output(15W)
Mode5	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			
MI CHARGE(33W)	1	1	MI			
Wireless charging load YBZ1.1		1	YBZ			
Support cable list						
Description Length (m) From To						
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

No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due	
Conducted Emission at AC power line							
1	EMI Test Receiver	Rohde&schwarz	ESCI3	101368	2024-03-20	2025-03-19	
2	Artificial mains network	Schwarzbeck	NSLK 8127	183	2024-03-21	2025-03-20	
3	Artificial Mains Network	Rohde & Schwarz	ESH2-Z5	100263	2024-03-20	2025-03-19	
		20dB Od	cupied Bandwid	th			
1	Wideband Radio Communication Tester	Rohde&schwarz	CMW500	149155	2024-03-20	2025-03-19	
2	ESG Series Analog Ssignal Generator	Agilent	E4421B	GB40051240	2024-03-21	2025-03-20	
3	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2024-03-21	2025-03-20	
4	Synthesized Sweeper	Agilent	83752A	3610A01957	2024-03-21	2025-03-20	
5	MXA Signal Analyzer	Agilent	N9020A	MY50143483	2024-03-21	2025-03-20	
6	RF Control Unit	Tonscend	JS0806-1	19D8060152	2024-03-21	2025-03-20	
7	Band Reject Filter Group	Tonscend	JS0806-F	19D8060160	2024-03-21	2025-03-20	
8	ESG Vector Signal Generator	Agilent	N5182A	MY50143762	2024-03-20	2025-03-19	
9	DC Power Supply	Agilent	E3632A	MY40027695	2024-03-21	2025-03-20	
		Emissions in frequ	ency bands (bel	ow 30MHz)			
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2024-03-20	2025-03-19	
2	Active Loop Antenna	Schwarzbeck	FMZB 1519 B	00066	2024-03-23	2025-03-22	
3	Amplifier	Hewlett-Packard	8447F	3113A06184	2024-03-20	2025-03-19	
Emissions in frequency bands (30MHz - 1GHz)							
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2024-03-20	2025-03-19	
2	TRILOG Broadband Antenna	schwarabeck	VULB 9163	9163-1338	2023-06-11	2025-06-10	
3	Active Loop Antenna	Schwarzbeck	FMZB 1519 B	00066	2024-03-23	2025-03-22	
4	Amplifier	Hewlett-Packard	8447F	3113A06184	2024-03-20	2025-03-19	



5 Evaluation Results (Evaluation)

5.1 Antenna requirement

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)

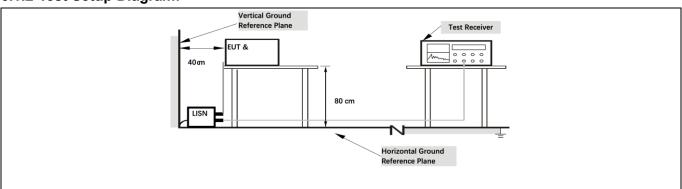
6.1 Conducted Emission at AC power line

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	<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:

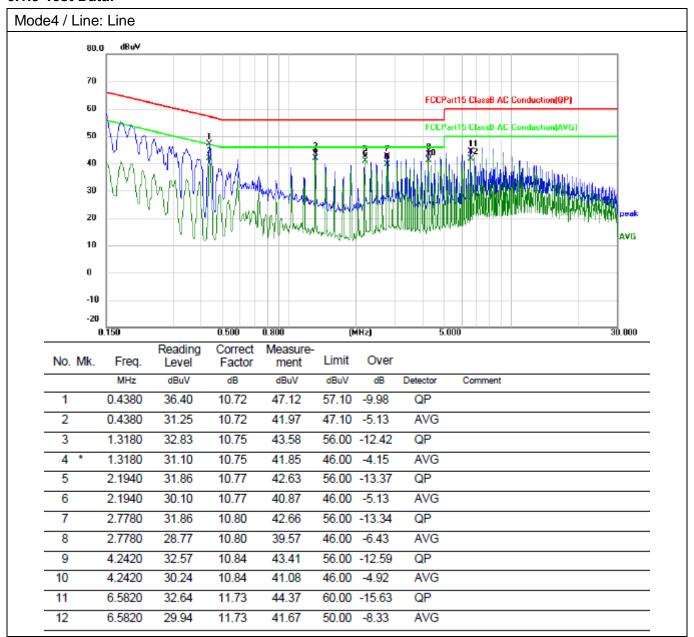
Operating Environment:							
Temperature:	Temperature: 25.9 °C Humidity: 44 % Atmospheric Pressure: 101 kPa						
Pre test mode:	Pre test mode: Mode1, Mode2, Mode3, Mode4, Mode5						
Final test mode: All of the listed pre-test mode were tested, only the data of the worst mode (Mode4) is recorded in the report							

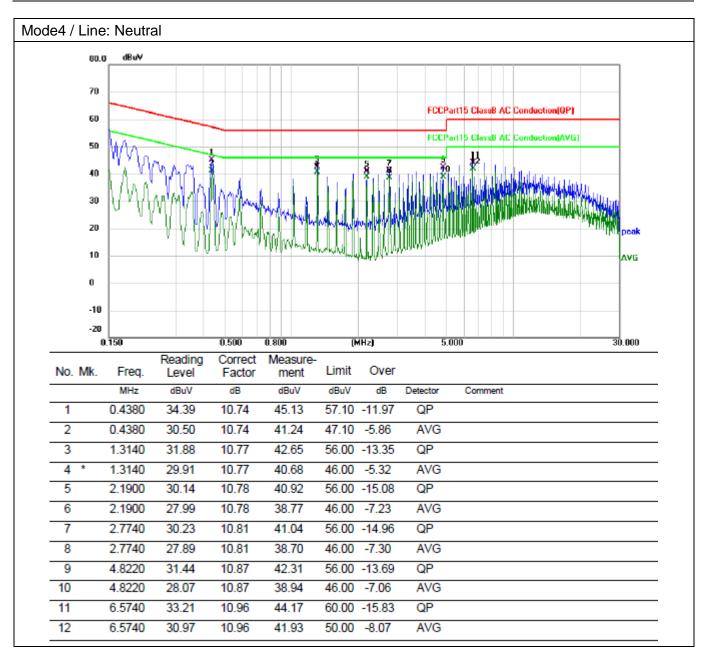
6.1.2 Test Setup Diagram:





6.1.3 Test Data:







6.2 20dB Occupied Bandwidth

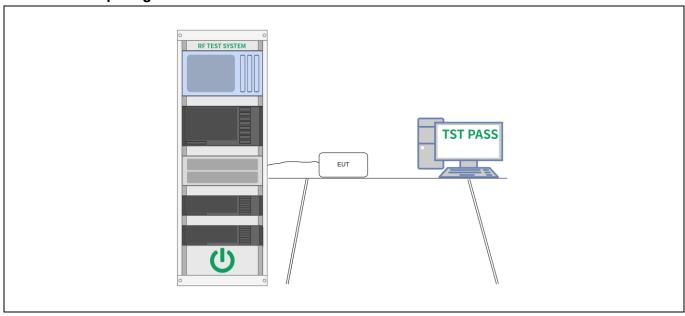
Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 db bandwidth of the emission, or whatever bandwidth may otherwise 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 displays dtrace (this is the reference value). h) Determine the ""xx dB down amplitude" using [(reference value) - xx]. Alternatively, this	Test Requirement:	47 CFR Part 15.215(c)
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 dow		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.
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The state of the s		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 do



6.2.1 E.U.T. Operation:

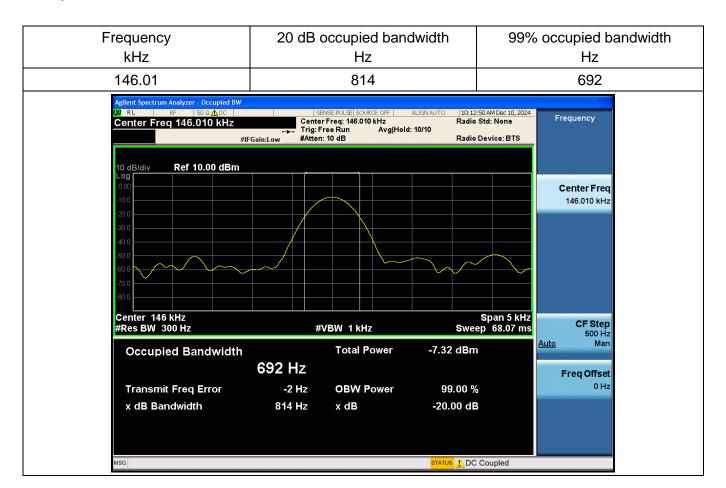
Operating Envi	Operating Environment:							
Temperature:	Temperature: 21 °C Humidity: 55.2 % Atmospheric Pressure: 101 kPa							
Pre test mode:	Pre test mode: Mode1, Mode2, Mode3, Mode4, Mode5							
Final test mode: All of the listed pre-test mode were tested, only the data of the worst mode (Mode4) is recorded in the report								

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.





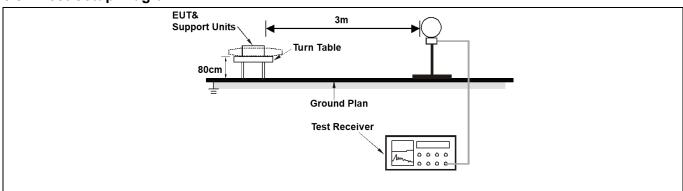
6.3 Emissions in frequency bands (below 30MHz)

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 em	nissions from				
		rating under this section shall n					
	frequency bands 54-72	MHz, 76-88 MHz, 174-216 MHz	or 470-806 MHz.				
	However, operation with	in these frequency bands is per	mitted under other				
	sections of this part, e.g	., §§ 15.231 and 15.241.					
		ove, the tighter limit applies at tl					
	The emission limits show	wn in the above table are based	on measurements				
		si-peak detector except for the					
	*	above 1000 MHz. Radiated emi					
		on measurements employing an					
		for frequencies above 1000 MH					
		and (b)of this section are based					
	•	strength of any emission shall r					
		rage limits specified above by n					
	any condition of modulation. For point-to-point operation under paragraph						
	(b)of this section, the peak field strength shall not exceed 2500						
		ers along the antenna azimuth.					
Test Method:	ANSI C63.10-2013 sect						
Procedure:	ANSI C63.10-2013 sect	ion 6.4					

6.3.1 E.U.T. Operation:

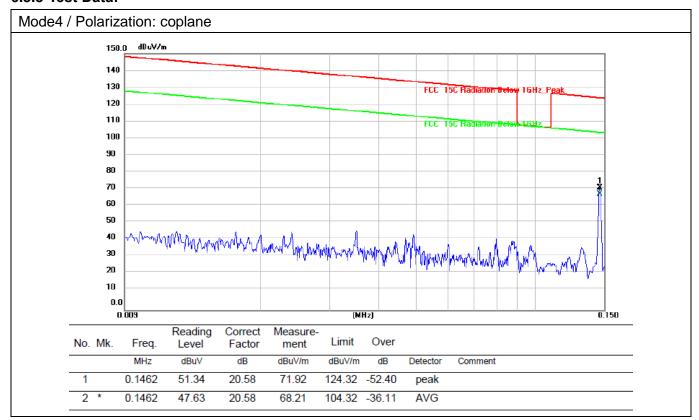
Operating Environment:							
Temperature:	Temperature: 21 °C Humidity: 55.2 % Atmospheric Pressure: 101 kPa						
Pre test mode:	Pre test mode: Mode1, Mode2, Mode3, Mode4, Mode5						
Final test mode: All of the listed pre-test mode were tested, only the data of the worst mode (Mode4) is recorded in the report							

6.3.2 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

6.3.3 Test Data:



6

8

0.7273

1.0211

1.3098

29.55

22.28

14.64

21.95

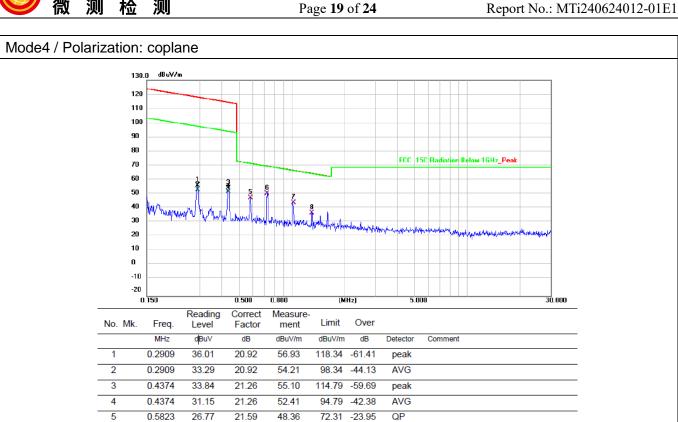
22.64

23.24

51.50

44.92

37.88



70.38 -18.88

67.44 -22.52

65.28 -27.40

QP

QP

QP



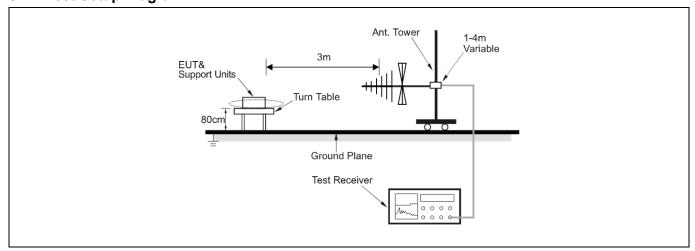
6.4 Emissions in frequency bands (30MHz - 1GHz)

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	n paragraph (g), fundamental en	nissions from				
		erating under this section shall r					
	frequency bands 54-72	MHz, 76-88 MHz, 174-216 MHz	z or 470-806 MHz.				
	However, operation with	nin these frequency bands is pe	rmitted under other				
	sections of this part, e.g	ı., §§ 15.231 and 15.241.					
		ove, the tighter limit applies at t					
	The emission limits sho	wn in the above table are based	d on measurements				
		asi-peak detector except for the					
	1 '	above 1000 MHz. Radiated emi					
		on measurements employing ar					
		for frequencies above 1000 Mi					
		and (b)of this section are based					
	· •	strength of any emission shall i					
		erage limits specified above by i					
	1	tion. For point-to-point operatio					
	(b)of this section, the peak field strength shall not exceed 2500						
T () ()		ers 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:

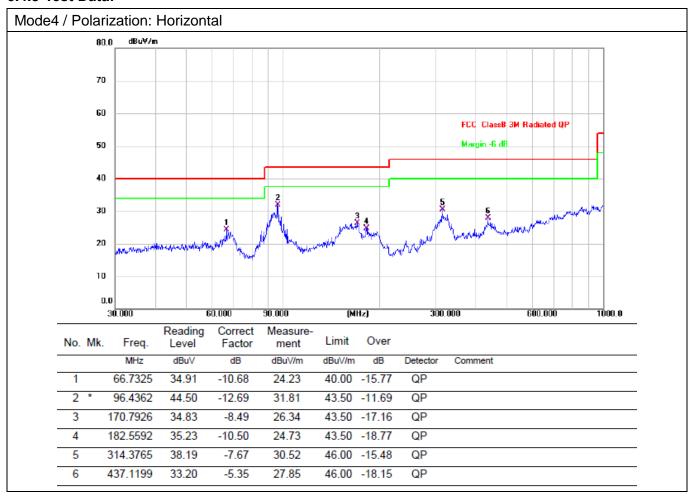
Operating Environment:							
Temperature:	Temperature: 21 °C Humidity: 55.2 % Atmospheric Pressure: 101 kPa						
Pre test mode:	Pre test mode: Mode1, Mode2, Mode3, Mode4, Mode5						
Final test mode: All of the listed pre-test mode were tested, only the data of the worst mode (Mode4) is recorded in the report						of the worst mode	

6.4.2 Test Setup Diagram:





6.4.3 Test Data:



5

6

196.5098

301.4224

42.66

33.89

-11.61

-7.93

31.05

25.96

43.50

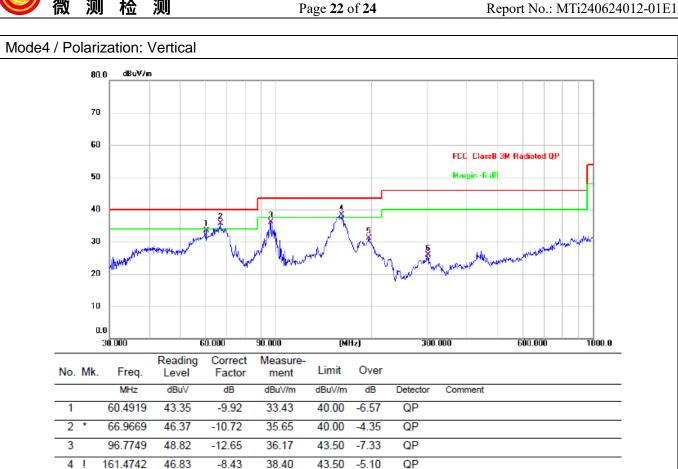
46.00

-12.45

-20.04

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----