

Test Report

Report No. : MTi241219003-06E1

Date of issue : 2025-03-13

Applicant : Edizard Co. LTD

Product : EZ Power Cube

Model(s) : EZ850101

FCC ID : 2BLKR-685973268

Shenzhen Microtest Co., Ltd.



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Test Result Certificati	on		(A) Mic
Applicant	Edizard	Co. LTD	
Applicant Address		Building B, Fuhai Technology Ind District, Shenzhen, China	lustrial Park, Fuhai Street,
Manufacturer	Donggu	an Ronghe Electronic Co., Ltd	a Micror
Manufacturer Address		ilding 2, No. 5, Lindong 3rd Road, an City, Guangdong Province	Lincun, Tangxia Town,
Product description			×
Product name	EZ Pow	er Cube	
Trademark	EDIZAR	RD	
Model name	EZ8501	01	rest
Series Model(s)	N/A		MICTO'S
Standards	47 CFR	Part 15C	
Test Method	ANSI C	63.10-2013	atest
Testing Information			Micros
Date of test	2025-02	2-25 to 2025-03-07	
Test result	Pass	, est	.6
Prepared by:		James Qin	James an
Reviewed by:		David Lee	James and Dowid. Cee Lewis lion
Approved by:	(Ne	Lewis Lian	lewis lian
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1 General Description

1.1 Description of the EUT

Product name:	EZ Power Cube		
Model name:	EZ850101		
Series Model(s):	N/A		
Model difference:	N/A		
Electrical rating:	USB-C Input: DC 20V/5A MAX Wireless Output: Phone(5W/ 7.5W/ 10W/ 15W), Earphone(5W), Watch(2.5W) USB-C Output: 65W MAX		
Accessories:	Type-c to Type-c cable: 100cm		
Hardware version:	V2.0		
Software version:	V3.0		
Test sample(s) number:	MTi241219003-06S1001		
RF specification			
Operating frequency range:	Coil1: 111-205kHz & 360 kHz Coil2: 111-205kHz Coil3: 325kHz		
Modulation type:	ASK		

1.2 Description of test modes

No.	Emission test modes			
Mode1	Wireless output phone(5W)+earphone(5W)+watch(2.5W)			
Mode2	Wireless output phone(7.5W)+earphone(5W)+watch(2.5W)			
Mode3	Wireless output phone(10W)+earphone(5W)+watch(2.5W)			
Mode4	Wireless output phone(15W MPP)+earphone(5W)+watch(2.5W)			
Mode5	Wireless output phone(5W)+earphone(5W)			
Mode6	Wireless output phone(7.5W)+earphone(5W)			
Mode7	Wireless output phone(10W)+earphone(5W)			
Mode8	Wireless output phone(15W MPP)+earphone(5W)			
Mode9	Wireless output phone(5W)+watch(2.5W)			
Mode10	Wireless output phone(7.5W)+watch(2.5W)			
Mode11	Wireless output phone(10W)+watch(2.5W)			
Mode12	Wireless output phone(15W MPP)+watch(2.5W)			
Mode13	Wireless output phone(5W)			
Mode14	Wireless output phone(7.5W)			
Mode15	Wireless output phone(10W)			
Mode16	Wireless output phone(15W MPP)			
Mode17	Wireless output earphone(5W)+watch(2.5W)			

Tel: 0755-88850135-1439 Mobile: 131-4343-1439 (Wechat same number) Web: http://www.mtitest.cn E-mail: mti@51mti.com
Address: 101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
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Mode18	Wireless output earphone(5W)
Mode19	Wireless output watch(2.5W)
Mode20	Stand by

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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	Model Serial No.			
AC/DC Adapter(65W)	AD652G		XIAOMI		
wireless charging load	YBZ2.0	1	YBZ		
Air Pods	Airpods 3	1	Apple		
Watch	Apple Watch S7	M0JVGQG1VP	Apple		
Support cable list					
Description	Length (m)	From	То		
/	/	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.

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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)	t 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	

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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		

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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 Occup	ied Bandwidth			
1	Wideband Radio Communication Tester	Rohde&schwarz	CMW500	149155	2024-03- 20	2025-03- 19
2	ESG Series Analog Ssignal Generator	Agilent	E4421B	GB400512 40	2024-03- 21	2025-03- 20
3	PXA Signal Analyzer	Agilent	N9030A	MY513502 96	2024-03- 21	2025-03- 20
4	Synthesized Sweeper	Agilent	83752A	3610A019 57	2024-03- 21	2025-03- 20
5	MXA Signal Analyzer	Agilent	N9020A	MY501434 83	2024-03- 21	2025-03- 20
6	RF Control Unit	Tonscend	JS0806-1	19D80601 52	2024-03- 21	2025-03- 20
7	Band Reject Filter Group	Tonscend	JS0806-F	19D80601 60	2024-03- 21	2025-03- 20
8	ESG Vector Signal Generator	Agilent	N5182A	MY501437 62	2024-03- 20	2025-03- 19
9	DC Power Supply	Agilent	E3632A	MY400276 95	2024-03- 21	2025-03- 20
	Emissions in frequency bands (below 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	3113A0618 4	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	3113A0618 4	2024-03- 20	2025-03- 19

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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.

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6 Radio Spectrum Matter Test Results (RF)

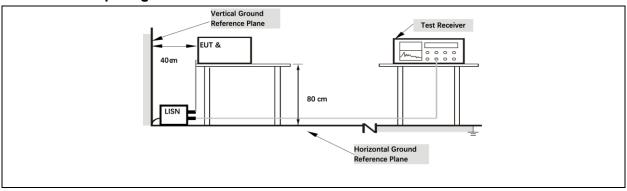
6.1 Conducted Emission at AC power line

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:

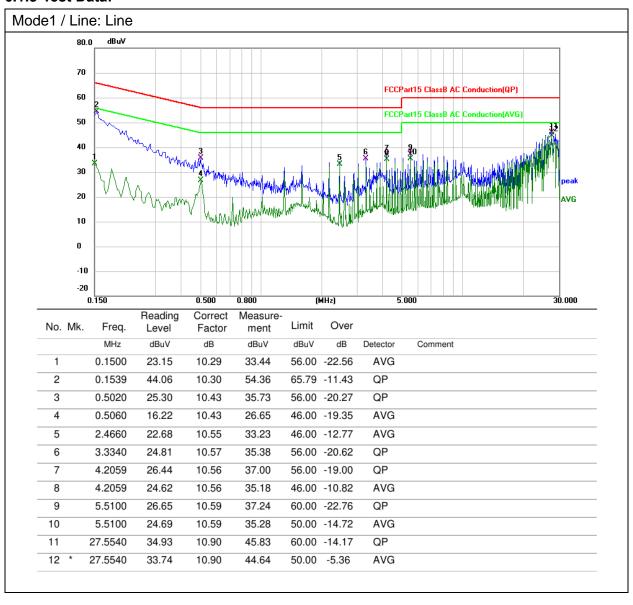
Operating Environment:							
Temperature: 25 °C Humidity: 48 % Atmospheric Pressure: 100 kPa					100 kPa		
Pre test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7, Mode8, Mode9, Mode10, Mode11, Mode12, Mode13, Mode14, Mode15, Mode16, Mode17, Mode18, Mode19, Mode20						
Final test mode: All of the listed pre-test mode were tested, only the data of the worst mode (Mode1) is recorded in the report							

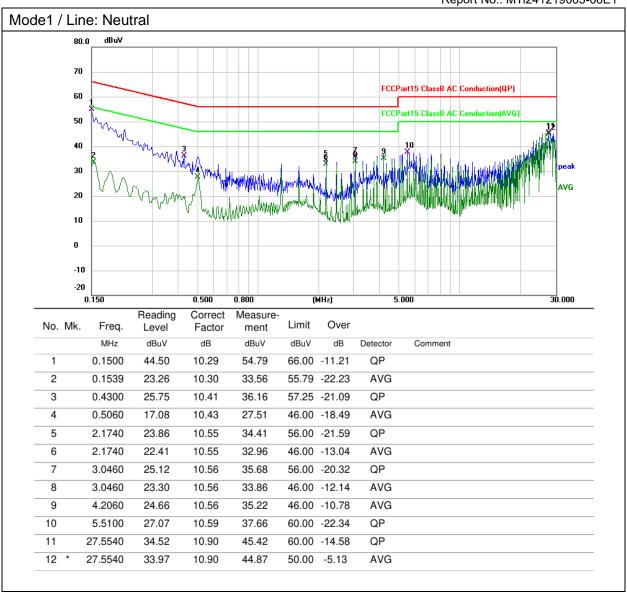
6.1.2 Test Setup Diagram:



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6.1.3 Test Data:





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6.2 20dB Occupied Bandwidth

Tack Demoisses to	
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:	·
Tal: 0755 88850135 1430 Ma	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

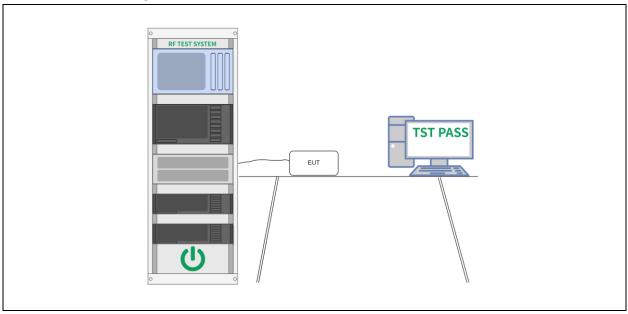
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reference marker amplitude. The marker-delta frequency reading at
this point is the specified emission bandwidth.
k) The occupied bandwidth shall be reported by providing plot(s) of the
measuring instrument display; the plot axes and the scale units 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:	ure: 22.3 °C Humidity: 46 % Atmospheric Pressure: 101 kPa					101 kPa
Pre test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7, Mode8, Pre test mode: 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 (Mode15, Mode16, Mode18, Mode19) is recorded in the report						

6.2.2 Test Setup Diagram:

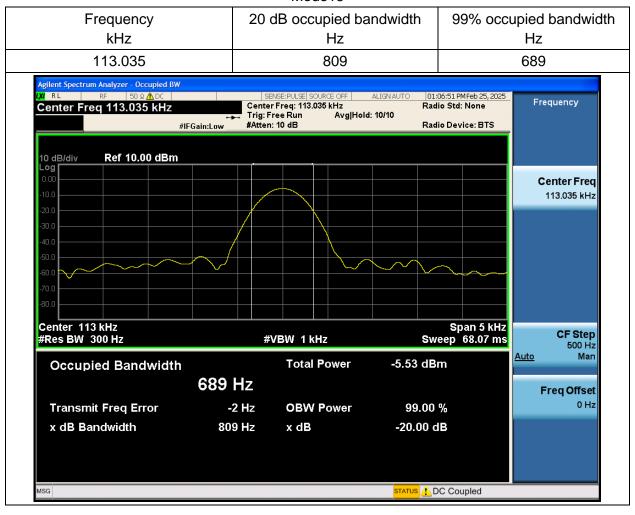


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6.2.3 Test Data:

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.

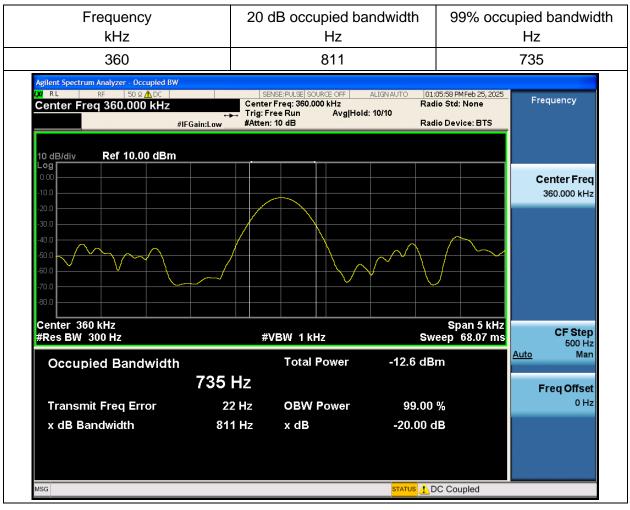
Mode15



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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.

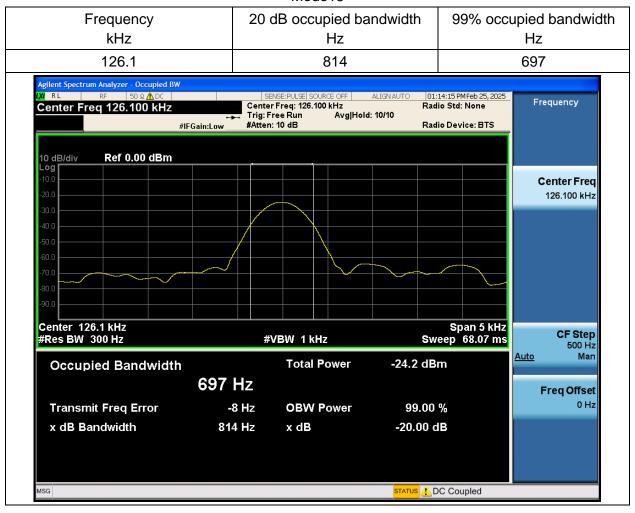
Mode16



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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.

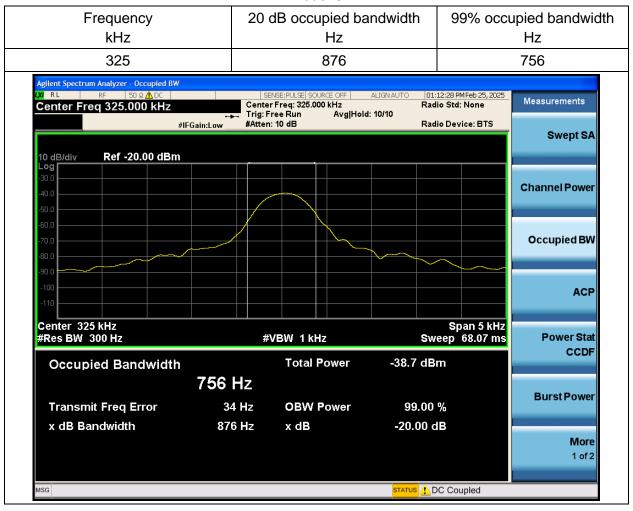
Mode18



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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.

Mode19



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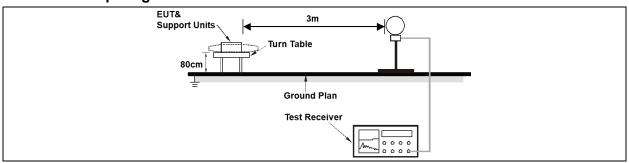
6.3 Emissions in frequency bands (below 30MHz)

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		
Test Method:	** 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:	ANSI C63.10-2013 sect				
Procedure:	ANSI C63.10-2013 sect	ion 6.4			

6.3.1 E.U.T. Operation:

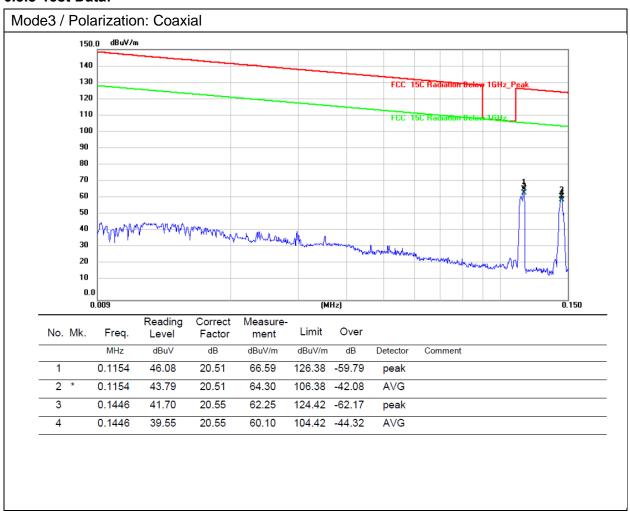
Operating Environment:							
Temperature:	Temperature: 25 °C Humidity: 43 % Atmospheric Pressure: 101 kPa						
Pre test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7, Mode8, Pre test mode: Mode9, Mode10, Mode11, Mode12, Mode13, Mode14, Mode15, Mode16, Mode17, Mode18, Mode19, Mode20						
Final test mode: All of the listed pre-test mode were tested, only the data of the worst mode (Mode3, Mode4) is recorded in the report					a of the worst		

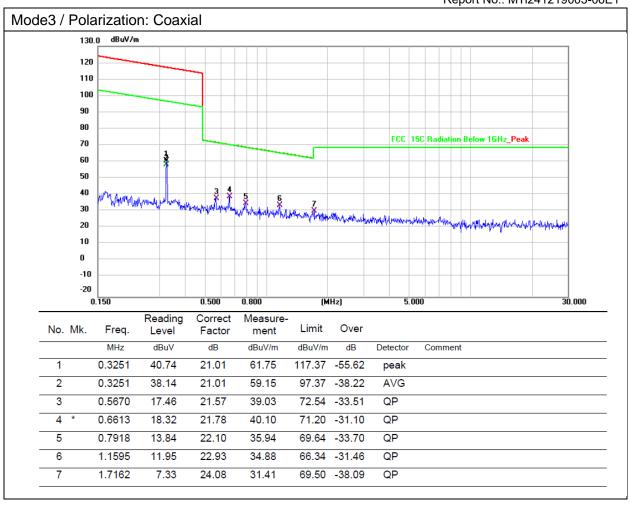
6.3.2 Test Setup Diagram:

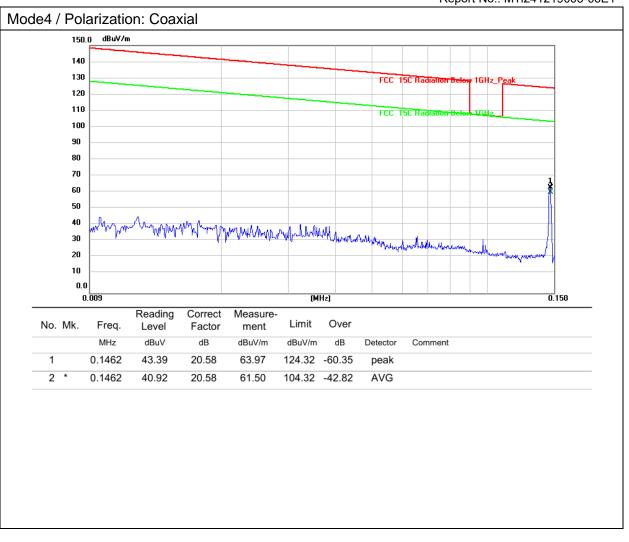


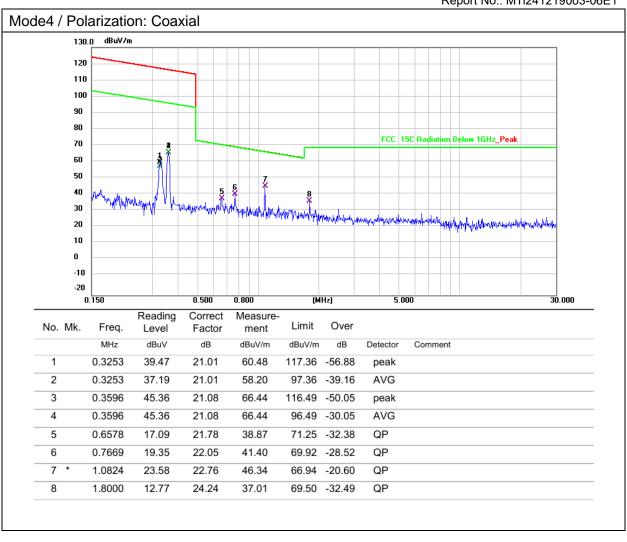
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6.3.3 Test Data:









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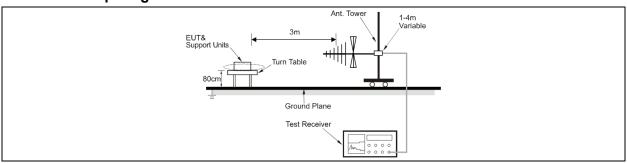
6.4 Emissions in frequency bands (30MHz - 1GHz)

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		
Test Method:	** 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.				
Procedure:	ANSI C63.10-2013 section 6.5				
Fiocedule.	ANSI C63.10-2013 section 6.5				

6.4.1 E.U.T. Operation:

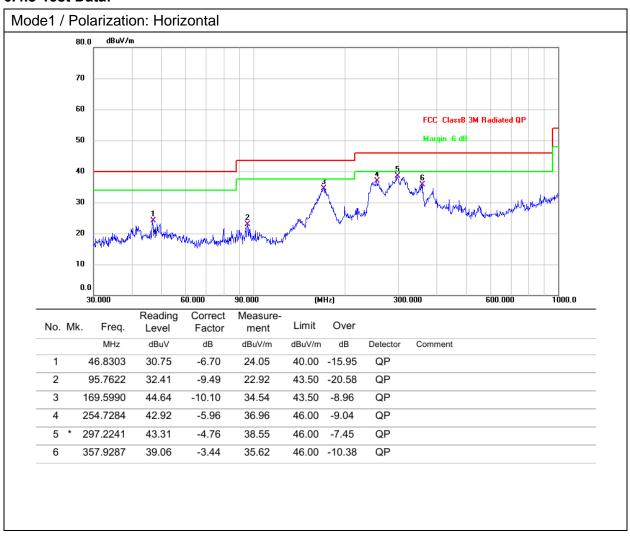
Operating Environment:							
Temperature:	22.5 °C		Humidity:	43 %	Atmospheric Pressure:	101 kPa	
Pre test mode:	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7, Mode8, Pre test mode: Mode9, Mode10, Mode11, Mode12, Mode13, Mode14, Mode15, Mode16, Mode17, Mode18, Mode19, Mode20						
Final test mode: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

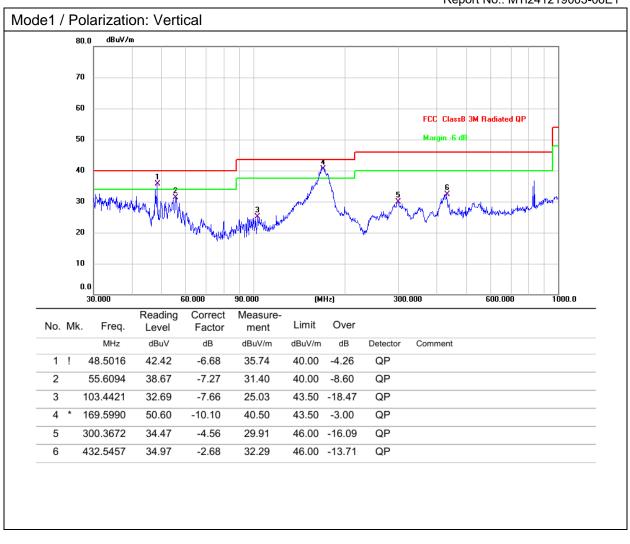
6.4.2 Test Setup Diagram:



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6.4.3 Test Data:





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Photographs of the test setup

Refer to Appendix - Test Setup Photos

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Photographs of the EUT

Refer to Appendix - EUT Photos

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Statement

- 1. This report is invalid without the seal and signature of the laboratory.
- The test results of this report are only responsible for the samples submitted. Client shall be responsible for representativeness of the sample and authenticity of the material.
- 3. The report shall not be partially reproduced without the written consent of the Laboratory.
- 4. This report is invalid if transferred, altered or tampered with in any form without authorization.
- 5. The observations or tests with special mark fall outside the scope of accreditation, and are only used for purpose of commission, research, training, internal quality control etc.
- 6. Any objection to this report shall be submitted to the laboratory within 15 days from the date of receipt of the report.

***** END OF REPORT *****