

Test Report

Report No.:	MTi240618026-13E1
Date of issue:	2024-07-11
Applicant:	Shenzhen Yifeng Intelligent Technology Co., Ltd.
Product name:	2 in 1 Magnetic Wireless Charging Stand
Model(s):	M26
FCC ID:	2AXY5-M26

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

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Test Result Certification		
Applicant: Shenzhen Yifeng Intelligent Technology Co., Ltd.		
Address:	201, Building 4, Sanwei Chaxi Industrial Zone, Sanwei Community, Hang Cheng Street, Bao An District, Shenzhen.	
Manufacturer:	Shenzhen Yifeng Intelligent Technology Co., Ltd.	
Address:	201, Building 4, Sanwei Chaxi Industrial Zone, Sanwei Community, Hang Cheng Street, Bao An District, Shenzhen.	
Factory:	Shenzhen Yifeng Intelligent Technology Co., Ltd.	
Address:	201, Building 4, Sanwei Chaxi Industrial Zone, Sanwei Community, Hang Cheng Street, Bao An District, Shenzhen.	
Product description		
Product name:	2 in 1 Magnetic Wireless Charging Stand	
Trademark:	YFZN	
Model name:	M26	
Series Model(s):	N/A	
Standards:	47 CFR Part 15C	
Test Method:	ANSI C63.10-2013	
Date of Test		
Date of test:	2024-07-01 to 2024-07-09	
Test result:	Pass	

Test Engineer	:	Modeen Deny	
		(Maleah Deng)	
Reviewed By	••	Dowid. Cee	
		(David Lee)	
Approved By	•	leon chen	
		(Leon Chen)	



1 General Description

1.1 Description of the EUT

2 in 1 Magnetic Wireless Charging Stand		
M26		
N/A		
N/A		
Input: DC9V 2.66A, 12V 2A Wireless Output: Phone1: 5W,7.5W,10W,15W; Earphone1: 5W Max;Phone2: 5W,7.5W,10W,15W; Earphone2: 5W Max		
Cable: USB-A to USB-C cable 100cm		
V1.2		
V414.63		
MTi240618026-13S1001		
Transmitter1 (Phone & Earphone): 115-205KHZ Transmitter2 (Phone & Earphone): 115-205KHZ		
ASK		
Coil Antenna		

1.2 Description of test modes

No.	Emission test modes		
Mode1	Wireless Output(Phone1(5W)+Phone2(5W))		
Mode2	Wireless Output(Phone1(7.5W)+Phone2(5W))		
Mode3	Wireless Output(Phone1(10W)+Phone2(5W))		
Mode4	Wireless Output(Phone1(15W)+Phone2(5W))		
Mode5	Wireless Output(Phone2(7.5W)+Phone1(5W))		
Mode6	Wireless Output(Phone2(10W)+Phone1(5W))		
Mode7	Wireless Output(Phone2(15W)+Phone1(5W))		
Mode8	Wireless Output(Phone1(7.5W)+Phone2(7.5W))		
Mode9	Wireless Output(Phone1(5W)+Earphone2(5W))		
Mode10	Wireless Output(Phone1(7.5W)+Earphone2(5W))		
Mode11	Wireless Output(Phone1(10W)+Earphone2(5W))		
Mode12	Wireless Output(Phone1(15W)+Earphone2(5W))		
Mode13	Wireless Output(Phone2(5W)+Earphone1(5W))		
Mode14	Wireless Output(Phone2(7.5W)+Earphone1(5W))		
Mode15	Wireless Output(Phone2(10W)+Earphone1(5W))		
Mode16	Wireless Output(Phone2(15W)+Earphone1(5W))		
Mode17	Wireless Output(Earphone1(5W)+Earphone2(5W))		
Mode18	Wireless Output(Phone1(5W))		



Wireless Output(Phone1(7.5W))			
Wireless Output(Phone1(10W))			
Wireless Output(Phone1(15W))			
Wireless Output(Phone2(5W))			
Wireless Output(Phone2(7.5W))			
Wireless Output(Phone2(10W))			
Wireless Output(Phone2(15W))			
Wireless Output(Earphone1(5W)			
Wireless Output(Earphone2(5W)			
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	
wireless charging load	YBZ1.1	1	YBZ	
wireless charging load	YBZ2.1	1	YBZ	
HUAWEI QUICK CHARGE	HW-200200ZP1	JN67LSN7N03451	HUAWEI	
airpods	A2564	YQ5G7WYWNX	apple	
airpods	A2190	GN3H44LD1059	apple	
Support cable list				
Description	Length (m)	From	То	
/	/	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 Oc	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

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.
	considered sufficient to comply with the provisions of this section.

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)

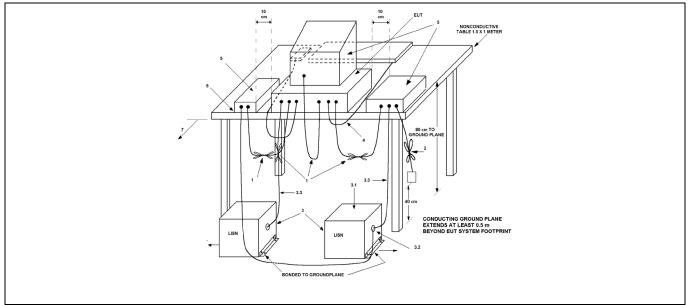
6.1 Conducted Emission at AC power line

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 μ H/50 ohms line impedance stabilization network (LISN).						
Test Limit:	Frequency of emission (MHz)	Conducted limit (dB)					
		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	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:

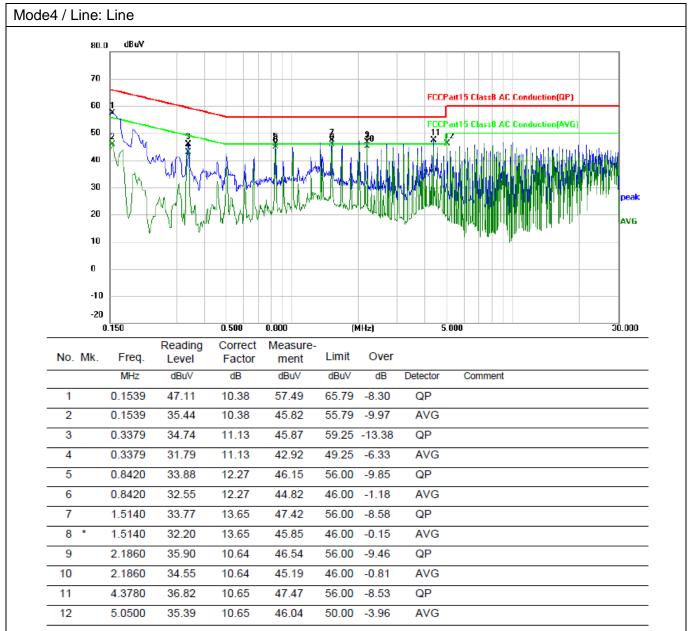
Operating Environment:								
Temperature:	26 °C		Humidity:	41 %	Atmospheric Pressure:	101 kPa		
Pre test mode:	Mode1-28							
Final test mode	All of the listed pre-test mode were tested, only the data of the worst mode (Mode4) is recorded in the report							

6.1.2 Test Setup Diagram:

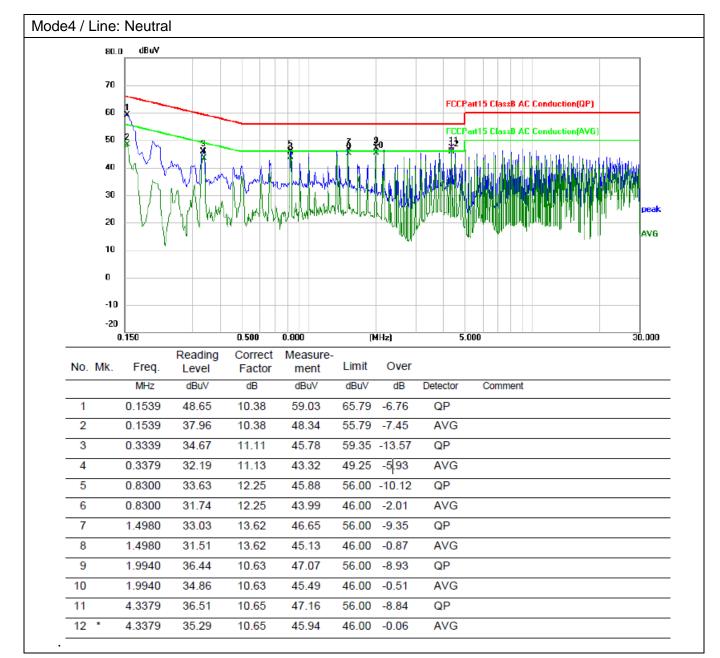




6.1.3 Test Data:









6.2 20dB Occupied Bandwidth

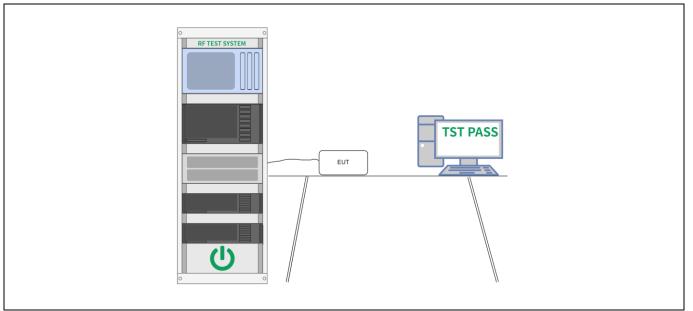
Test Requirement:	47 CFR Part 15.215(c)
Test Limit:	Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of 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 REW) 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 guire inta 1.1.5.2. 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 marker and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step]). j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelop



6.2.1 E.U.T. Operation:

Operating Environment:								
Temperature:	Temperature: 23.3 °C		Humidity:	48.23 %	Atmospheric Pressure:	101 kPa		
Pre test mode:	Mode1-28							
Final test mode	All of the listed pre-test mode were tested, only the data of the worst mode (Mode21, Mode26) 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.

Frequency kHz 167.8 Agilent Spectrum Analyzer - Occupied BW	20 dB	occupied band Hz	lwidth	99% occ	cupied bandwid Hz
167.8 Agilent Spectrum Analyzer - Occupied BW					HZ
Agilent Spectrum Analyzer - Occupied BW					
		810			689
<mark>₩</mark> RL RF 50 Ω <u>A</u> DC Center Freq 167.800 kHz	Center	SENSE:INT SOURCE OFF r Freq: 167.800 kHz ree Run Avg Hold	Radio S	2 PM Jul 02, 2024 Std: None	Frequency
#IFC		n: 10 dB		Device: BTS	
10 dB/div Ref 0.00 dBm					
					O antes Essa
-20.0					Center Freq 167.800 kHz
-30.0				I	
-40.0					
-60.0					
-70.0			~~~~		
-80.0					
Center 167.8 kHz #Res BW 300 Hz	#	VBW 1 kHz		Span 5 kHz p 68.07 ms	CF Step 500 Hz
Occupied Bandwidth		Total Power	-21.6 dBm		<u>Auto</u> Man
	689 Hz				Ereg Offeet
Transmit Freq Error	-7 Hz	OBW Power	99.00 %		Freq Offset 0 Hz
x dB Bandwidth	810 Hz	x dB	-20.00 dB		
			20.00 UD		



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.

Frequency	20 dB	occupied band	dwidth	99% იი	cupied bandwid
kHz		Hz			Hz
127.92		814			693
Agilent Spectrum Analyzer - Occupied BW					
Center Freq 127.920 kHz	Center Trig: F	SENSE:INT SOURCE OFF r Freq: 127.920 kHz ree Run Avg Hol : 10 dB	Radio 9 Id: 10/10	i2 PM Jul 02, 2024 Std: None Device: BTS	Frequency
10 dB/div Ref 10.00 dBm					
Log 0.00 -10.0					Center Freq 127.920 kHz
-20.0					
-40.0					
-60.0					
-70.0					
Center 127.9 kHz #Res BW 300 Hz	#	VBW 1 kHz	Swee	Span 5 kHz p 68.07 ms	CF Step 500 Hz
Occupied Bandwidth		Total Power	-6.79 dBm		<u>Auto</u> Man
	693 Hz				Freq Offset
Transmit Freq Error	-7 Hz	OBW Power	99.00 %		0 Hz
x dB Bandwidth	814 Hz	x dB	-20.00 dB		

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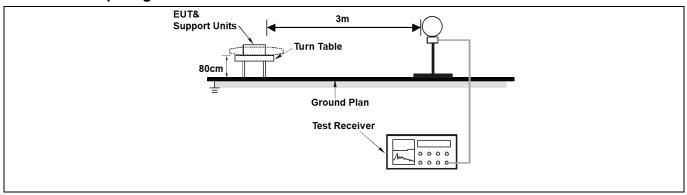
6.3 Emissions in frequency bands (below 30MHz)

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: Procedure:	** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MH 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 measureme 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 detect. As shown in § 15.35(b), for frequencies above 1000 MHz, the field strer limits in paragraphs (a)and (b)of this section are based on average limit 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.				

6.3.1 E.U.T. Operation:

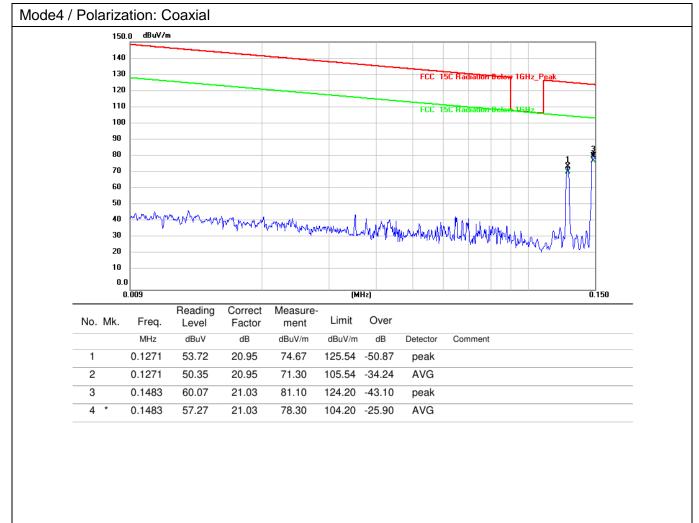
Operating Environment:							
Temperature:	erature: 22.5 °C		Humidity:	43 %	Atmospheric Pressure:	101 kPa	
Pre test mode:	Mode1-28						
Elbal test mode.			All of the listed pre-test mode were tested, only the data of the worst mode (Mode4) is recorded in the report				

6.3.2 Test Setup Diagram:

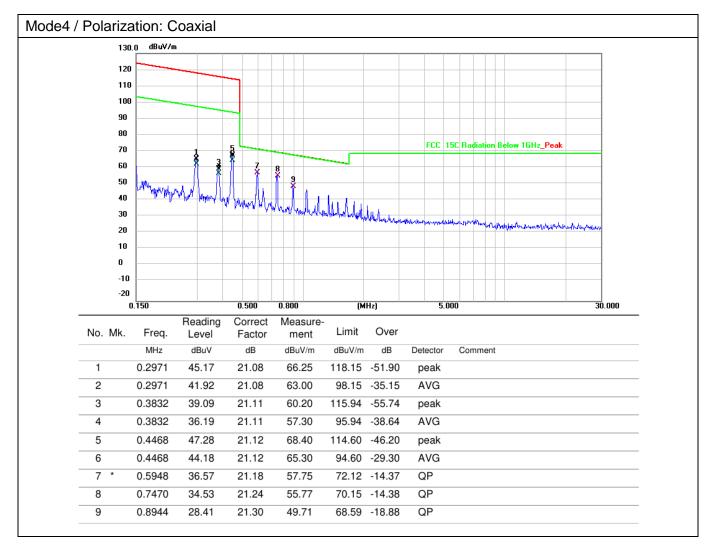




6.3.3 Test Data:









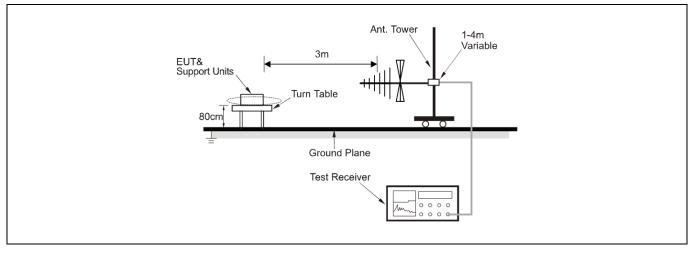
6.4 Emissions in frequency bands (30MHz - 1GHz)

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 frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 However, operation within these frequency bands is permitted under sections of this part, e.g., §§ 15.231 and 15.241. In the emission limits shown in the above table are based on measure employing a CISPR quasi-peak detector except for the frequency b kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits three bands are based on measurements employing an average de As shown in § 15.35(b), for frequencies above 1000 MHz, the field limits in paragraphs (a)and (b)of this section are based on average However, the peak field strength of any emission shall not exceed t maximum permitted average limits specified above by more than 20 any condition of modulation. For point-to-point operation under para (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	on 6.5		

6.4.1 E.U.T. Operation:

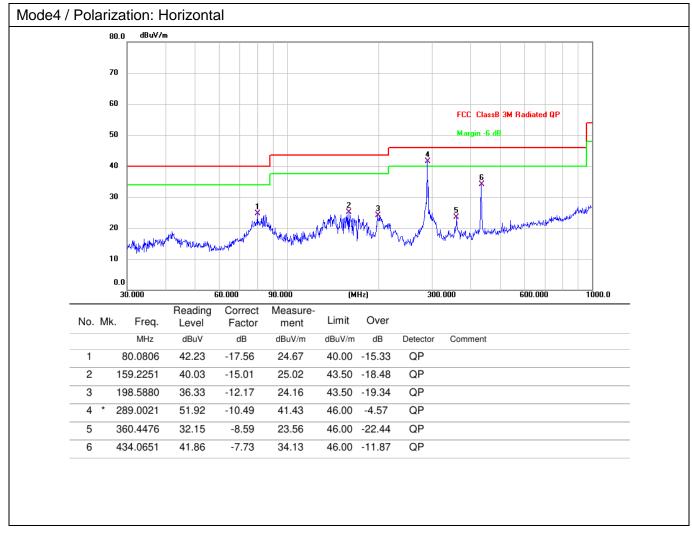
Operating Environment:								
Temperature:	Temperature: 22.5 °C		Humidity:	43 %	Atmospheric Pressure:	101 kPa		
Pre test mode:		Mode1-28						
			All of the listed pre-test mode were tested, only the data of the worst mode (Mode4) is recorded in the report					

6.4.2 Test Setup Diagram:

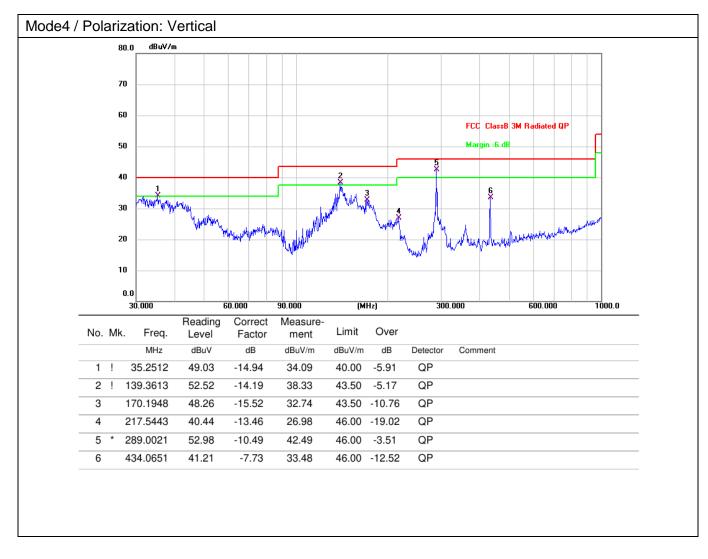




6.4.3 Test Data:









Photographs of the test setup

Refer to Appendix - Test Setup Photos



Photographs of the EUT

Refer to Appendix - EUT Photos

----End of Report----