

Test Report

Report No.:	MTi240904004-01E1
Date of issue:	2024-09-18
Applicant:	Shenzhen Aodehong Electronic Technology Co., Ltd.
Product name:	3-in-1 Wireless Charger
Model(s):	Z27, Z15, Z17, Z21, Z22, Z25, Z29, Z3C
FCC ID:	2APQD-Z27

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

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Test Result Certification			
Applicant: Shenzhen Aodehong Electronic Technology Co., Ltd.			
Address: 5th Floor, Elegant Industrial Park, No.8 Liuhe Road, Liuyue, Hengguang S Longgang District, Shenzhen, China			
Manufacturer:	Shenzhen Aodehong Electronic Technology Co., Ltd.		
Address:	5th Floor, Elegant Industrial Park, No.8 Liuhe Road, Liuyue, Hengguang Street, Longgang District, Shenzhen, China		
Product description			
Product name:	3-in-1 Wireless Charger		
Trademark:	NEWQI, Energycell		
Model name:	Z27		
Series Model(s):	Z15, Z17, Z21, Z22, Z25, Z29, Z3C		
Standards:	47 CFR Part 15C		
Test Method:	ANSI C63.10-2013		
Date of Test	Date of Test		
Date of test:	2024-09-05 to 2024-09-17		
Test result:	Pass		

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



1 General Description

1.1 Description of the EUT

Product name:	3-in-1 Wireless Charger
Model name:	Z27
Series Model(s):	Z15, Z17, Z21, Z22, Z25, Z29, Z3C
Model difference:	All the models are the same circuit and module, except the model name and color.
Electrical rating:	Input: DC 9V 3A Wireless Output: Phone: 5W,7.5W,10W,15W Max; Earphone: 5W; Watch: 2.5W
Accessories:	Cable: USB-A to USB-C cable 100cm
Hardware version:	1.0
Software version:	1.0
Test sample(s) number:	MTi240904004-01S1001
RF specification	
Operating frequency range:	Phone: 115-205kHz(5W,7.5W,10W); 360kHz(15W) Earphone: 115-205kHz Watch: 326 kHz
Modulation type:	ASK
Antenna(s) type:	Coil Antenna



1.2 Description of test modes

No.	Emission test modes
Mode1	Wireless output(5W)+Earphone(5W)+Watch(2.5W)
Mode2	Wireless output(7.5W)+Earphone(5W)+Watch(2.5W)
Mode3	Wireless output(10W)+Earphone(5W)+Watch(2.5W)
Mode4	Wireless output(15W(MPP))+Earphone(5W)+Watch(2.5W)
Mode5	Wireless output(5W)+Earphone(5W)
Mode6	Wireless output(7.5W)+Earphone(5W)
Mode7	Wireless output(10W)+Earphone(5W)
Mode8	Wireless output(15W(MPP))+Earphone(5W)
Mode9	Wireless output(5W)+Watch(2.5W)
Mode10	Wireless output(7.5W)+Watch(2.5W)
Mode11	Wireless output(10W)+Watch(2.5W)
Mode12	Wireless output(15W(MPP))+Watch(2.5W)
Mode13	Wireless output(Earphone(5W)+Watch(3W))
Mode14	Wireless output(5W)
Mode15	Wireless output(7.5W)
Mode16	Wireless output(10W)
Mode17	Wireless output(15W(MPP))
Mode18	Watch Output(2.5W)
Mode19	Earphone Output (5W)
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			
wireless charging load	YBZ1.1	/	YBZ			
wireless charging load	YBZ3.0	/	YBZ			
Air Pods	MQD83CH/A	/	Apple			
iwatch	iwatch SE	/	Apple			
HUAWEI QUICK CHARGE HW-200200ZP1		JN67LSN7N03451	HUAWEI			
Support cable list						
Description Length (m)		From	То			
/ /		/	/			

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 Aver Community, Fuhai Street, Bao'an District, Shenzhen, Guangdor	
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

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.

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)

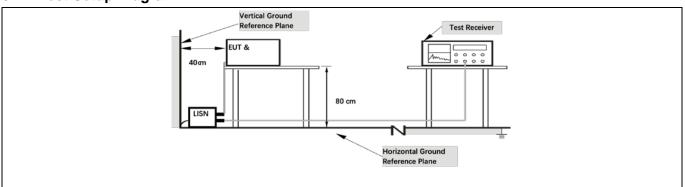
6.1 Conducted Emission at AC power line

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 (dB	βμV)			
		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 sect line conducted emissions from u			wer-		

6.1.1 E.U.T. Operation:

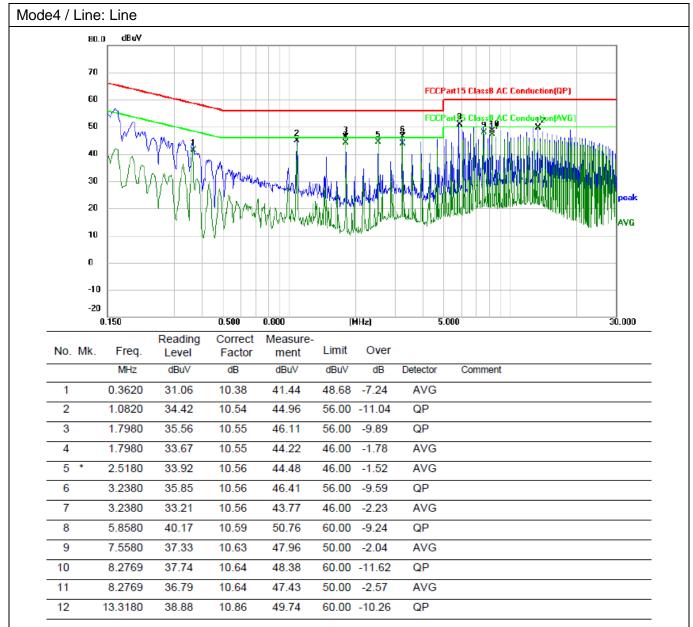
Operating Environment:							
Temperature:	25.9 °C		Humidity:	44 %	Atmospheric Pressure:	101 kPa	
Pre test mode: Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7, Mode8, Mode9, Mode10, Mode11, Mode12, Mode13, Mode14, Mode15, Mode16, Mode1 Mode18, Mode19, Mode20						, , ,	
Final test mode: All of the listed pre-test mode were tested, only the data of the worst mod (Mode4) is recorded in the report						of the worst mode	

6.1.2 Test Setup Diagram:

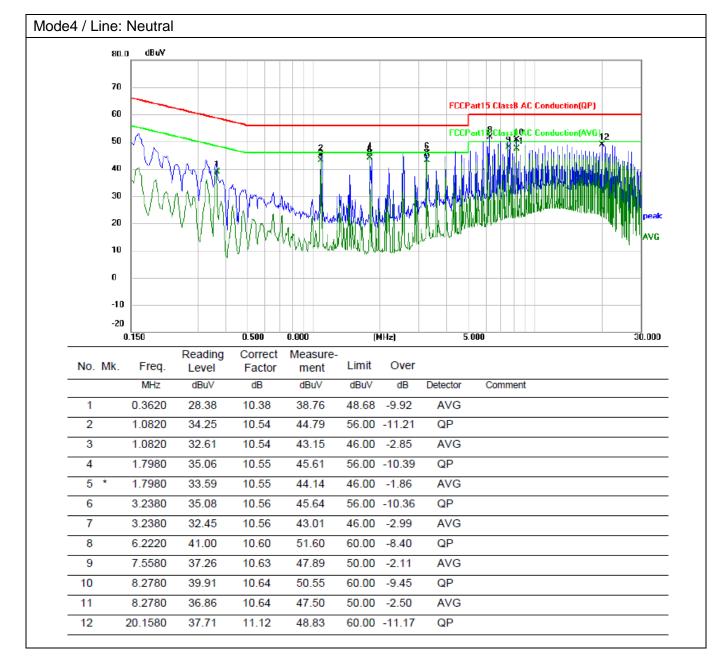




6.1.3 Test Data:









6.2 20dB Occupied Bandwidth

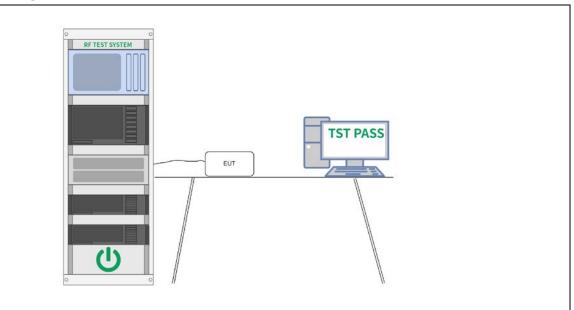
Test Limit:R111 <th> 47 CFR Part 15.215(c) Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, 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. ANSI C63.10-2013, section 6.9.2 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 </th>	 47 CFR Part 15.215(c) 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. ANSI C63.10-2013, section 6.9.2 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
Procedure: a	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
C	center frequency. The span range for the EMI receiver or spectrum analyzer
b 5 ti c fr g ((d tr ett ra arc f) g c s tt h A o i)) tt t C i)) fr o n a b o b d d a e t s tt h A o i)) tt t c s tt h A o i)) fr g c s s tt h A o i)) fr g c s s tt h A o i)) fr g c s s tt h A o i)) fr g c s s tt h A o i)) fr g c s s tt h A o i)) fr g c s s tt h A o i)) fr g c s s tt h A o i)) fr g c s s tt h A o i)) fr s i i i i i i i i i i i i i i i i i i	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.)) 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).)) 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.) 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. Diherwise, 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 irequency 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 differenc



6.2.1 E.U.T. Operation:

Operating Environment:							
Temperature:	27.9 °C		Humidity:	38.8 %	Atmospheric Pressure:	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 (Mode16, Mode17, Mode18, Mode19) is recorded in the report							

6.2.2 Test Setup Diagram:

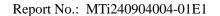




6.2.3 Test Data:

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	20 dB	occupied band	width	99% occup	occupied bandwidt	
kHz		Hz			Hz	
124.27		749			642	
Agilent Spectrum Analyzer - Occupied BW		SENSE:INT	ALIGN AUTO 05:16:3	0 PM Sep 14, 2024		
Center Freq 124.270 kHz	Center Trig: F	r Freq: 124.270 kHz ree Run Avg Hold : 10 dB	Radio S : 10/10	evice: BTS	Frequency	
10 dB/div Ref 20.00 dBm						
Log 10.0 0.00					Center Freq 124.270 kHz	
-10.0						
-30.0						
-40.0	$\Lambda \Lambda / \square$					
-60.0			\sim			
Center 124.3 kHz #Res BW 300 Hz	#	VBW 1 kHz	Swee	Span 5 kHz 5 68.07 ms	CF Step 500 Hz	
Occupied Bandwidth		Total Power	-4.71 dBm	Auto		
	642 Hz				Freq Offset	
Transmit Freq Error	-6 Hz	OBW Power	99.00 %		0 Hz	
x dB Bandwidth	749 Hz	x dB	-20.00 dB			





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				cupied bandwidth
kHz	Hz			Hz
360	753			682
Agilent Spectrum Analyzer - Occupied BW				
IX RL RF 50Ω DC Center Freq 360.000 kHz	SENSE:INT Center Freq: 360.000 kHz	Rad	:23:20 PM Sep 17, 2024 dio Std: None	Measurements
	Gain:Low #Atten: 10 dB	old: 10/10 Rad	dio Device: BTS	
				Swept SA
10 dB/div Ref 0.00 dBm Log				
-10.0				Channel Power
-20.0				Chamien ower
-30.0				
-50.0	$\wedge / \rightarrow \wedge$	\sim	\sim	Occupied BW
-60.0			$ \rightarrow $	
-70.0				
-80.0				ACP
Center 360 kHz #Res BW 300 Hz	#VBW 1 kHz	Sw	Span 5 kHz /eep 68.07 ms	Power Stat
	Total Power	-15.3 dB		CCDF
Occupied Bandwidth		-15.3 GE	sm	
	682 Hz			BurstPower
Transmit Freq Error	17 Hz OBW Power	99.00	%	
x dB Bandwidth	753 Hz x dB	-20.00 (dB	
				More 1 of 2
				1 of 2
MSG		STATUS		

Coil1: Wireless output(15W)

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	20 dB	20 dB occupied bandwidth 99% occ Hz			cupied bandwidt Hz
326		759			652
Agilent Spectrum Analyzer - Occupied BW X RL RF 50 & DC Center Freq 326.000 kHz #IF			Ra : 10/10	5:29:17 PM Sep 14, 2024 Idio Std: None Idio Device: BTS	Frequency
10 dB/div Ref 0.00 dBm Log					Center Freq 326.000 kHz
Center 326.0 kHz #Res BW 300 Hz	#\	/BW 1 kHz	Sı	Span 5 kHz weep 68.07 ms	CF Step 500 Hz
Occupied Bandwidth	652 Hz	Total Power	-27.9 dl	Зm	Auto Man Freq Offset
Transmit Freq Error x dB Bandwidth	-4 Hz 759 Hz	OBW Power x dB	99.00 -20.00		0 Hz
MSG			STATUS		

Coil3: Wireless Watch(2.5W)

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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.

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Frequency kHz	20 dB occupied bandwidth 99% occ Hz		cupied bandwidth Hz		
127.845		750			668
Agilent Spectrum Analyzer - Occupied BW X RL RF 50 Ω DC Center Freq 127.845 kHz #IFG	Cente Trig:F	SENSE:INT FFreq: 127.845 kHz ree Run Avg Hold : 10 dB	Ra 1: 10/10	5:24:21 PM Sep 14, 2024 Idio Std: None Idio Device: BTS	Frequency
10 dB/div Ref 0.00 dBm Log					Center Freq 127.845 kHz
Center 127.8 kHz #Res BW 300 Hz	#	VBW 1 kHz	St	Span 5 kHz weep 68.07 ms	CF Step 500 Hz
Occupied Bandwidth	668 Hz	Total Power	-23.9 di	Зm	Auto Man Freq Offset
Transmit Freq Error	14 Hz	OBW Power	99.00) %	0 Hz
x dB Bandwidth	750 Hz	x dB	-20.00	dB	
MSG			STATUS		

Coil2: Wireless Earphone(5W)



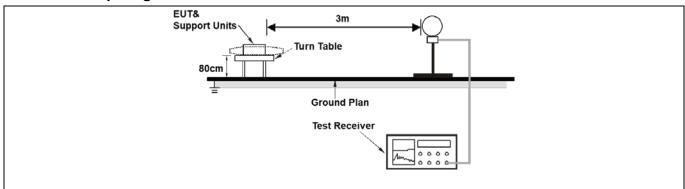
6.3 Emissions in frequency bands (below 30MHz)

Test Requirement:	47 CFR Part 15.209					
Test Limit:	Frequency (MHz)	Field strength	Measuremen			
		(microvolts/meter)	t distance (meters)			
	0.009-0.490		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:	 Above 960 [500] 3 ** 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 of 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 in three bands are based on measurements employing an average detect. As shown in § 15.35(b), for frequencies above 1000 MHz, the field street 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 dE any condition of modulation. For point-to-point operation under paragraft (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 secti ANSI C63.10-2013 secti					
	/					

6.3.1 E.U.T. Operation:

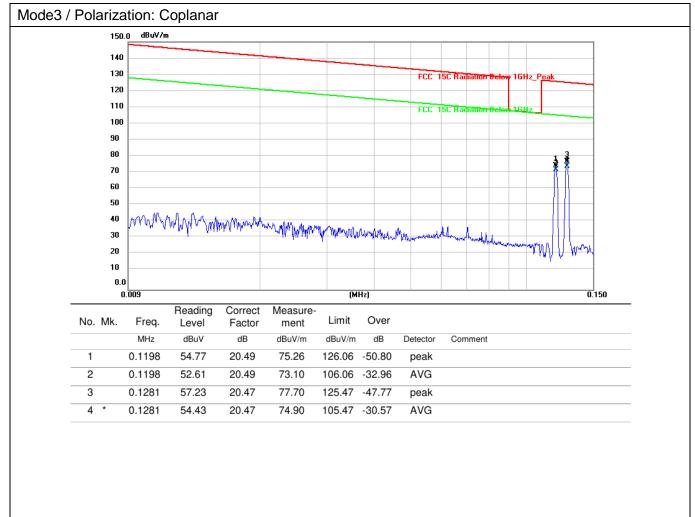
Operating Environment:							
Temperature:	22.5 °C		Humidity:	43 %	Atmospheric Pressure:	101 kPa	
Pre test mode:	Pre test mode: Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7, Mode8, Mode9, Mode10, Mode11, Mode12, Mode13, Mode14, Mode15, Mode16, Mode17 Mode18, Mode19, Mode20						
Final test mode: All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

6.3.2 Test Setup Diagram:

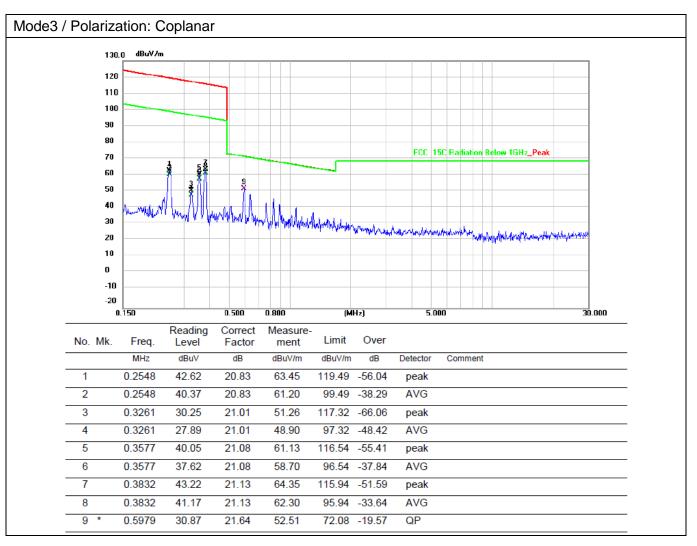




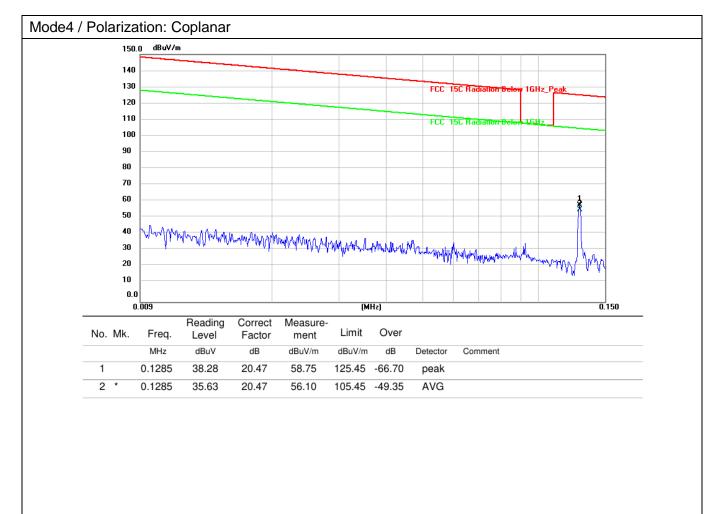
6.3.3 Test Data:



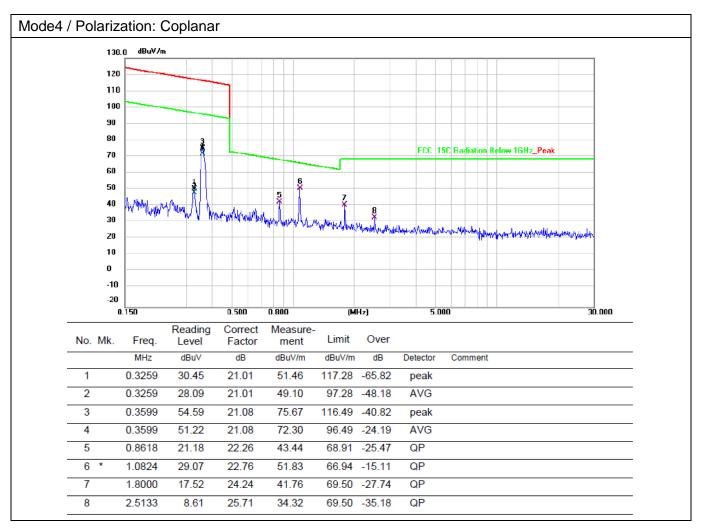














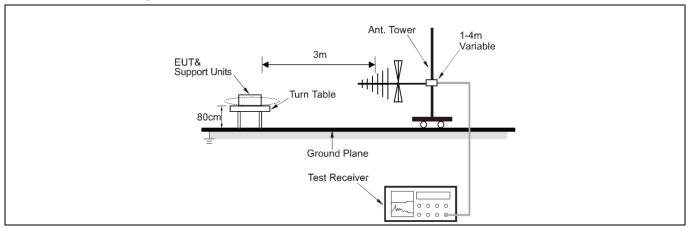
6.4 Emissions in frequency bands (30MHz - 1GHz)

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			
Test Method:	 ** 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 of 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 in three bands are based on measurements employing an average detect As shown in § 15.35(b), for frequencies above 1000 MHz, the field street 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 dE any condition of modulation. For point-to-point operation under paragraft (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 ANSI C63.10-2013 section					
	ANO 003.10-2013 Secul					

6.4.1 E.U.T. Operation:

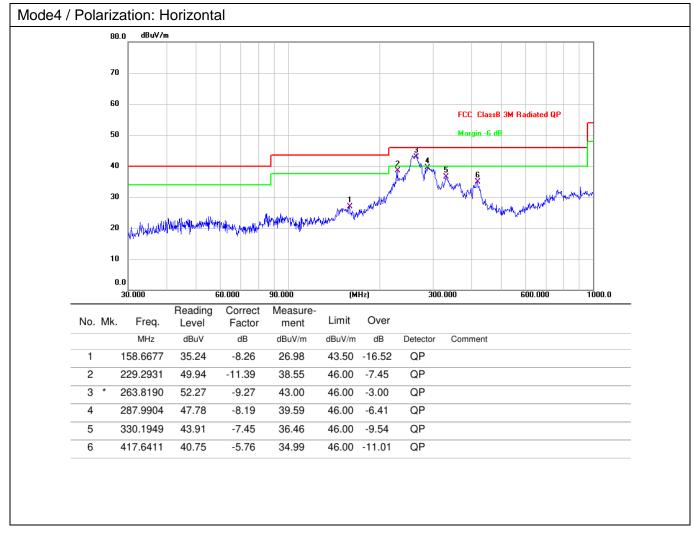
Operating Environment:						
Temperature:	26 °C		Humidity:	54 %	Atmospheric Pressure:	98.3 kPa
Pre test mode:		Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7, Mode8, Mode9, Mode10, Mode11, Mode12, Mode13, Mode14, Mode15, Mode16, Mode17, Mode18, Mode19, Mode20				
Final test mode:		All of the listed pre-test mode were tested, only the data of the worst mode (Mode4) is recorded in the report				

6.4.2 Test Setup Diagram:

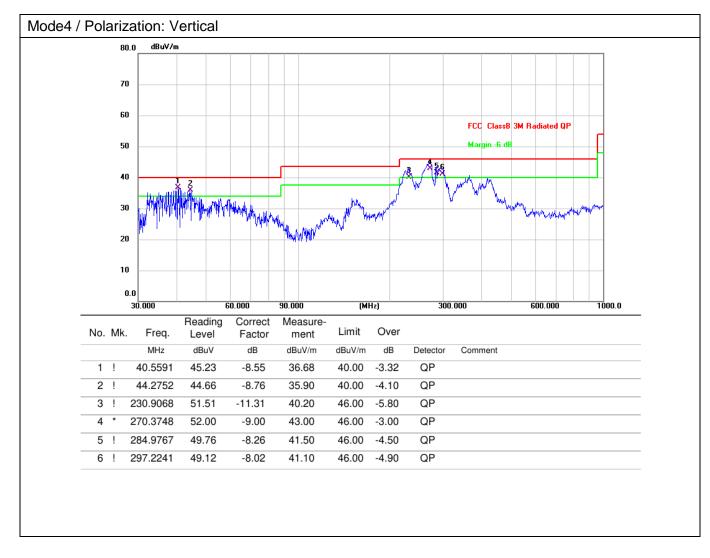




6.4.3 Test Data:









Photographs of the test setup

Refer to Appendix - Test Setup Photos



Photographs of the EUT

Refer to Appendix - EUT Photos

----End of Report----