

		Microtest
Microtest	Test Repo	rt @Microtest
Microtest		
Report No.	: MTi250326001-0102E1	
Date of issue	: 2025-04-02	
Applicant	: Shenzhen Aodehong Electr Co.,Ltd.	onic Technology
Product	: Multi-function Wireless Cha	arger MiClo
Model(s)	: S9, S9A, S10, S10A, S11, S1	1A, S12, S12A, S13,
@ Mici s	S13A, S14, S14A, S15, S15A	A, S16, S16A, S17,
	S17A, S18, S18A, T3, T5, T6	, Т7, Т8, Т9
FCC ID	: 2APQD-S9	
		NCIOLEST

Shenzhen Microtest Co., Ltd.





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Mobile: 131-4343-1439 (Wechat same number) Tel: 0755-88850135-1439 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
Ver./Rev.: A1E-mail: mti@51mti.com



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Applicant	Shenzhen Aodehong Electronic Technology Co.,Ltd.			
Applicant Address		5th Floor, Elegant Industrial Park, No.8 Liuhe Road, Liuyue,Her Street,Longgang District, Shenzhen,China		
Manufacturer Shenzhe		n Aodehong Electronic Technology	Co.,Ltd.	
Manufacturer Address		Elegant Industrial Park, No.8 Liuh nggang District, Shenzhen,China	e Road, Liuyue,Henggang	
Product descriptio	n		(B)MC.	
Product name	Multi-fund	ction Wireless Charger		
Trademark	NEWQI			
Model name	S9	dest		
Series Model(s)		, S10A, S11, S11A, S12, S12A, S ² A, S17, S17A, S18, S18A, T3, T5,		
Standards	47 CFR F	R Part 15C		
Test Method	ANSI C63	ANSI C63.10-2013		
Testing Informatio	n		Micro	
Date of test	2025-03-2	26 to 2025-03-28		
Test result	Pass			
Prepared b	by:	Maleah Deng	Marleen Davy	
Reviewed	by:	David Lee	Marlean Doug Dourid. Cee Lewis tion	
Approved I	oy:	Lewis Lian	Lewis tion	



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1 General Description

1.1 Description of the EUT

200	
Product name:	Multi-function Wireless Charger
Model name:	S9
Series Model(s):	S9A, S10, S10A, S11, S11A, S12, S12A, S13, S13A, S14, S14A, S15, S15A, S16, S16A, S17, S17A, S18, S18A, T3, T5, T6, T7, T8, T9
Model difference:	All the models are the same circuit and module, except the model name.
Electrical rating:	Input: DC 9V 3A Wireless Output: Phone:5W, 7.5W, 10W, 15W; Earbuds: 5W; Watch: 5W
Accessories:	Cable: USB-C to USB-C cable 100cm
Hardware version:	1.0
Software version:	1.0
Test sample(s) number:	MTi250219007-13-R002
RF specification	MIC
Operating frequency range:	Coil 1 (Phone): 115-205KHz(5W, 7.5W, 10W), 360kHz(15W) Coil 2 (Earphone): 115-205KHz Coil 3 (Watch): 300-350KHz
Modulation type:	ASK
Antenna(s) type:	Coil Antenna

1.2 Description of test modes

No.	Emission test modes
Mode1	Wireless output(Phone(5W)+Earphone(5W)+Watch(5W))
Mode2	Wireless output(Phone(7.5W)+Earphone(5W)+Watch(5W))
Mode3	Wireless output(Phone(10W)+Earphone(5W)+Watch(5W))
Mode4	Wireless output(Phone(15W)+Earphone(5W)+Watch(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)+Earphone(5W))
Mode9	Wireless output(Phone(5W)+Watch(5W))
Mode10	Wireless output(Phone(7.5W)+Watch(5W))
Mode11	Wireless output(Phone(10W)+Watch(5W))
Mode12	Wireless output(Phone(15W)+Watch(5W))
Mode13	Wireless Output(Earphone(5W)+Watch(5W))



Mode14	Wireless output(Phone(5W))
Mode15	Wireless output(Phone(7.5W))
Mode16	Wireless output(Phone(10W))
Mode17	Wireless output(Phone(15W))
Mode18	Wireless output(Watch(5W))
Mode19	Wireless output(Earphone(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 I	ist		40 ^{0%}	
Description	Model	Serial No.	Manufacturer	
Apple Watch	Apple Watch SE	FH7PP6BAG91J6 Apple		
wireless charging load	YBZ3.0(MPP15W)		YBZ	
airpods	airpods 3	× 1	apple	
wireless charging load	YBZ1.1	010 1	YBZ	
HUAWEI QUICK CHARGE(65W)	HW-200200ZP1	JN67LSN7N03451	HUAWEI	
Support cable list				
Description	Length (m)	From	Тос	
/	/	/	NO9	
.5 Measurement ur	ncertainty		B)))	
Measurement		Uncertainty		
Conducted emissions	(AMN 150kHz~30MHz)	±3.1dB		
Occupied channel bar	ndwidth	±3 %		
Radiated spurious em	issions (9kHz~30MHz)	±4.3dB		
Radiated spurious em	issions (30MHz~1GHz)	±4.7dB		
Temperature	(((13)))"	±1 °C	*e51	
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)	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 laboratory:	· · · · · · · · · · · · · · · · · · ·
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
Pure	Microtest

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4 List of test equipment

•	List of test equipri		1			
No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due
27	COLC-	Conducted Emiss	ion at AC power	line		
4	EMI Test Receiver	Rohde&schwarz	ESCI3	101368	2025-03- 13	2026-03 12
2	Artificial mains network	Schwarzbeck	NSLK 8127	183	2025-03- 18	2026-03 17
3	Artificial Mains Network	Rohde & Schwarz	ESH2-Z5	100263	2025-03- 18	2026-03 17
		20dB Occup	ied Bandwidth		2.0	-10
1	Wideband Radio Communication Tester	Rohde&schwarz	CMW500	149155	2025-03- 18	2026-03 17
2	ESG Series Analog Ssignal Generator	Agilent	E4421B	GB400512 40	2025-03- 14	2026-03 13
3	PXA Signal Analyzer	Agilent	N9030A	MY513502 96	2025-03- 14	2026-03 13
4	Synthesized Sweeper	Agilent	83752A	3610A019 57	2025-03- 18	2026-03 17
5	MXA Signal Analyzer	Agilent	N9020A	MY501434 83	2025-03- 18	2026-03 17
6	RF Control Unit	Tonscend	JS0806-1	19D80601 52	2025-03- 18	2026-03 17
7	Band Reject Filter Group	Tonscend	JS0806-F	19D80601 60	2025-03- 18	2026-03 17
8	ESG Vector Signal Generator	Agilent	N5182A	MY501437 62	2025-03- 14	2026-03 13
9	DC Power Supply	Agilent	E3632A	MY400276 95	2025-03- 18	2026-03 17
	En En	nissions in frequenc	y bands (below	30MHz)	Jan.	
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2025-03- 14	2026-03 13
2	Active Loop Antenna	Schwarzbeck	FMZB 1519 B	00066	2024-03- 23	2026-03 22
3	Amplifier	Hewlett-Packard	8447F	3113A0618 4	2025-03- 18	2026-03 17
	Em	issions in frequency	y bands (30MHz	- 1GHz)		
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2025-03- 14	2026-03 13
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	2026-03 22
4	Amplifier	Hewlett-Packard	8447F	3113A0618 4	2025-03- 18	2026-03 17

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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.

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)

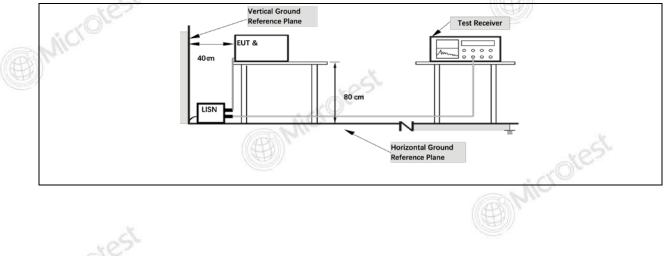
6.1 Conducted Emission at AC power line

Test Requirement:	intentional radiator that is design (AC) power line, the radio freque onto the AC power line on any fr band 150 kHz to 30 MHz, shall r	t as shown in paragraphs (b)and (c)of this section, for an onal radiator that is designed to be connected to the public utility ower line, the radio frequency voltage that is conducted back the AC power line on any frequency or frequencies, within the 50 kHz to 30 MHz, shall not exceed the limits in the following as measured using a 50 μ H/50 ohms line impedance ration 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			
j.	*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: 2	24.4 °C	Humidity:	61 %	Atmospheric Pressure:	101 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 (Mode2) is recorded in the report					

6.1.2 Test Setup Diagram:

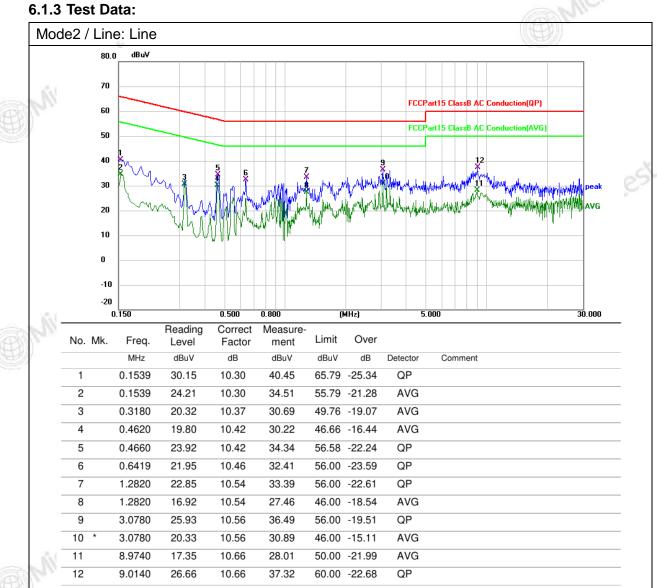


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TEST REPORT

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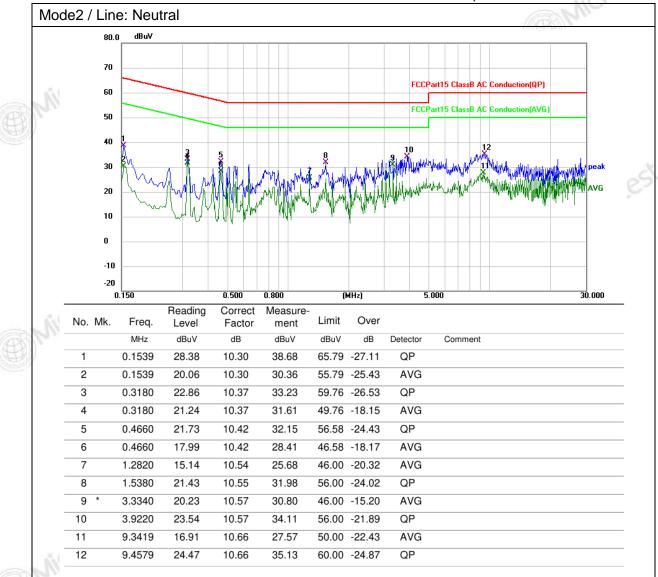
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6.2 20dB Occupied Bandwidth

Test Requirement:	47 CFR Part 15.215(c)	
Test Limit:	Refer to 47 CFR 15.215(c), intentional alternative provisions to the general e 15.217 through 15.257 and in subpart to ensure that the 20 dB bandwidth of bandwidth may otherwise be specified under which the equipment operates, band designated in the rule section u operated.	emission limits, as contained in § t E of this part, must be designed f the emission, or whatever d in the specific rule section , is contained within the frequency
Test Method:	ANSI C63.10-2013, section 6.9.2	
Procedure:	 a) The spectrum analyzer center freq channel center frequency. The span r spectrum analyzer shall be between t OBW. b) The nominal IF filter bandwidth (3 of the OBW) and video here. 	range for the EMI receiver or two times and five times the dB RBW) shall be in the range of
Microtest	 1% to 5% of the OBW and video band approximately three times RBW, unleapplicable requirement. c) Set the reference level of the instrusignal from exceeding the maximum is operation. In general, the peak of the than [10 log (OBW/RBW)] below the rest is given in 4.1.5.2. 	ess otherwise specified by the ument as required, keeping the input mixer level for linear spectral envelope shall be more
Microtest	 d) Steps a) through c) might require it specified tolerances. e) The dynamic range of the instrume more than 10 dB below the target "-x if the requirement calls for measuring noise floor at the selected RBW shall reference value. f) Set detection mode to peak and trag) Determine the reference value: Se unmodulated carrier or modulated signature to stabilize. Set the spectrum ar level of the displayed trace (this is the h) Determine the "-xx dB down amplition" and the instrument. 	ent at the selected RBW shall be ex dB down" requirement; that is, the -20 dB OBW, the instrument be at least 30 dB below the acce mode to max hold. At the EUT to transmit an gnal, as applicable. Allow the halyzer marker to the highest e reference value). At the instruction of the marker of t
Microtest	 i) If the reference value is determined turn the EUT modulation ON, and eith a new trace on the spectrum analyze stabilize. Otherwise, the trace from st j) Place two markers, one at the lowe highest frequency of the envelope of each marker is at or slightly below the determined in step h). If a marker is b amplitude" value, then it shall be as of The occupied bandwidth is the freque markers. Alternatively, set a marker a envelope of the spectral display, such below the "-xx dB down amplitude" determined 	her clear the existing trace or star r and allow the new trace to tep g) shall be used for step j). It frequency and the other at the the spectral display, such that e "-xx dB down amplitude" below this "-xx dB down close as possible to this value. Ency difference between the two it the lowest frequency of the n that the marker is at or slightly



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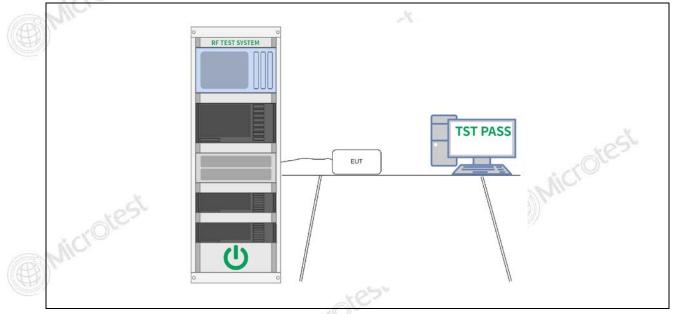
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marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth. 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:	24.1 °	Ő	Humidity:	40 %	Atmospheric Pressure:	101 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:



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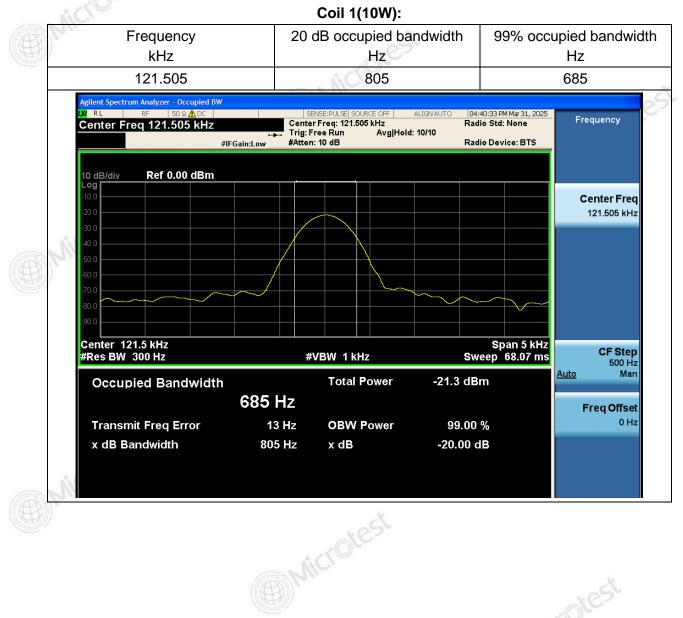




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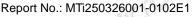
6.2.3 Test Data:

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.



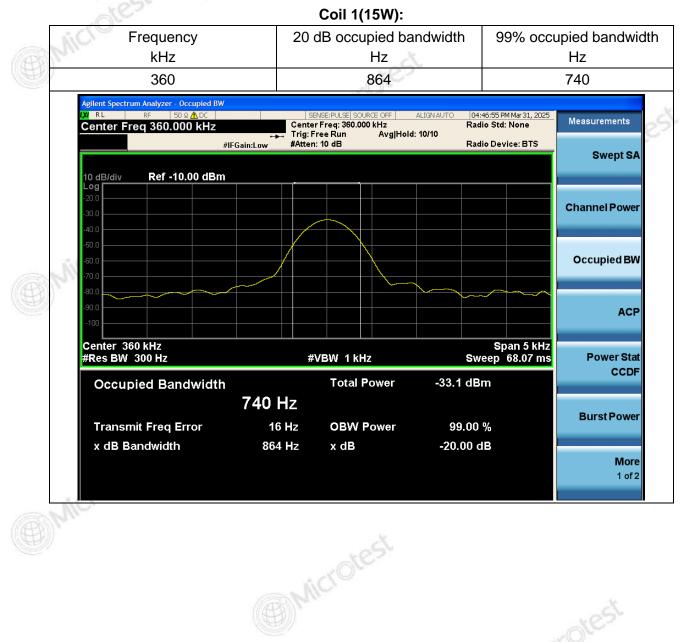
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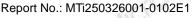
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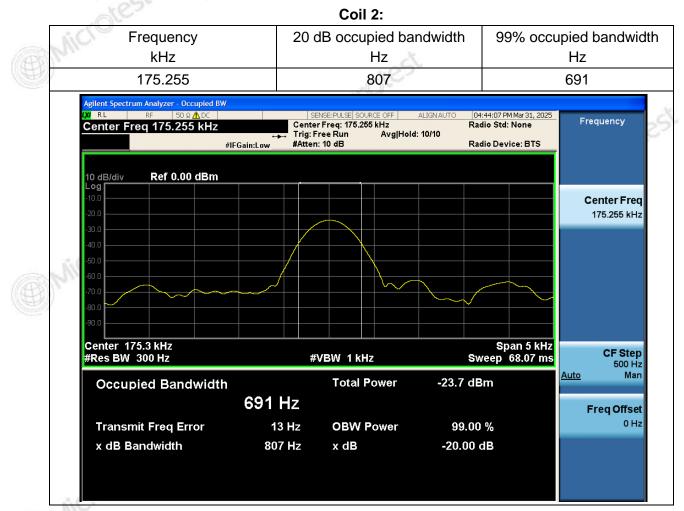
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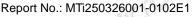
Note: Because the measured signal is CW-like, adjusting the RBW per C63.10 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 300 Hz to perform the occupied bandwidth test.



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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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6.3 Emissions in frequency bands (below 30MHz)

Test Requirement:	47 CFR Part 15.209			
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement 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	
Microtest	The emission limits sho measurements employ frequency bands 9–90 Radiated emission limit measurements employ As shown in § 15.35(b) strength limits in parage average limits. Howeve not exceed the maximum more than 20 dB under operation under paragr shall not exceed 2500 m azimuth.	bove, the tighter limit applies own in the above table are ba- ing a CISPR quasi-peak detector. kHz, 110–490 kHz and above ing an average detector. , for frequencies above 1000 raphs (a)and (b)of this section er, the peak field strength of a um permitted average limits se any condition of modulation aph (b)of this section, the per- millivolts/meter at 3 meters a	ased on ector except for the e 1000 MHz. ased on 0 MHz, the field on are based on any emission shall specified above by . For point-to-point eak field strength	
Test Method:	ANSI C63.10-2013 sec	tion 6.4		

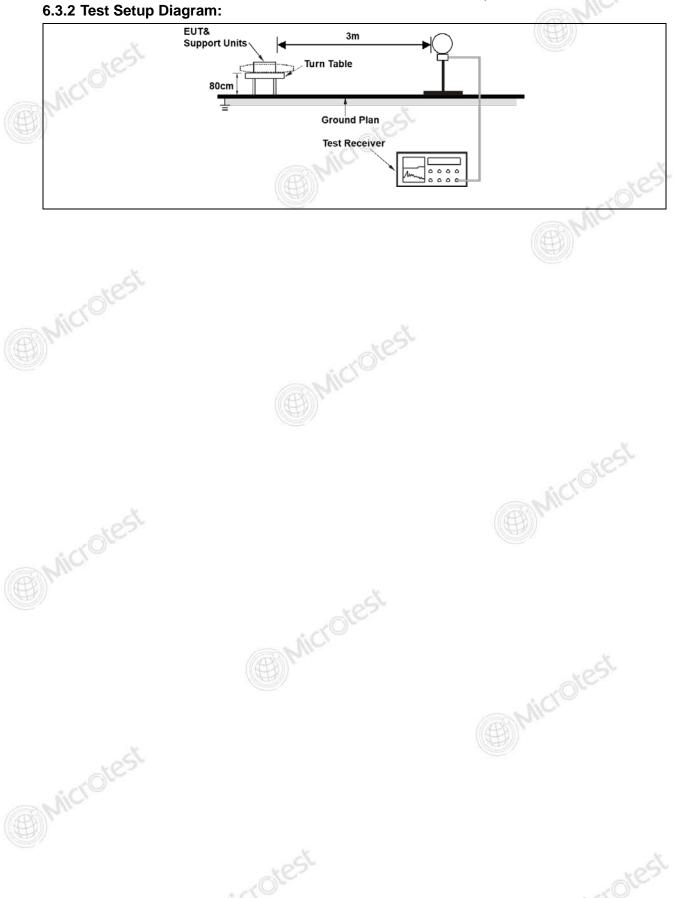
Operating Environment:

Operating Envir			20)*	1	
Temperature:	22.5 °C	Humidity:	43 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mo	de9, Mode10	, Mode11, N	de4, Mode5, Mode6, Mode Iode12, Mode13, Mode14, Mode19, Mode20	· · · · · · · · · · · · · · · · · · ·
Final test mode	· ·	All of the listed pre-test mode were tested, only the data of the wors mode (Mode3, Mode4) is recorded in the report			a of the worst
Microtest					

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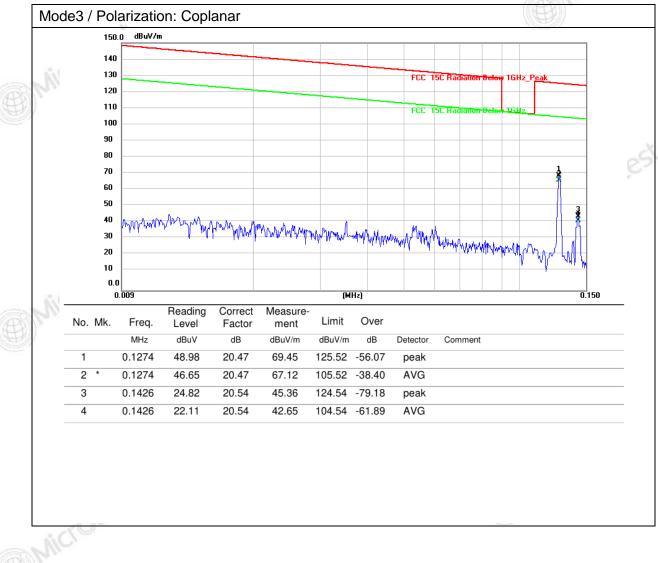
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Microtest

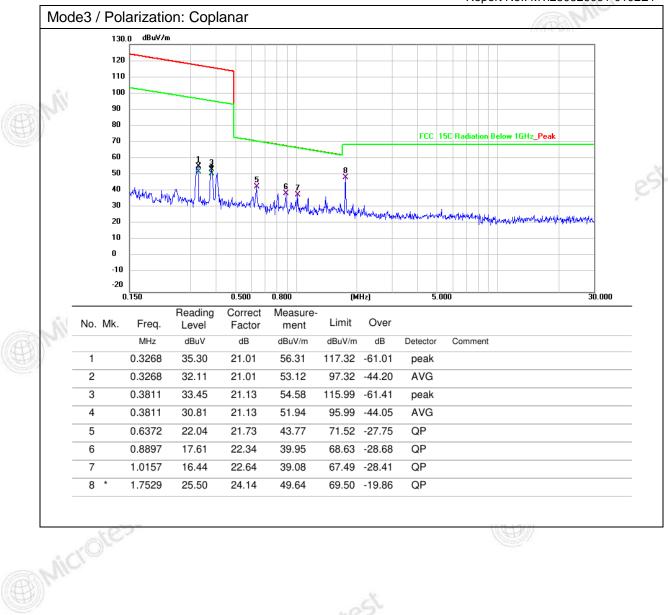
6.3.3 Test Data:





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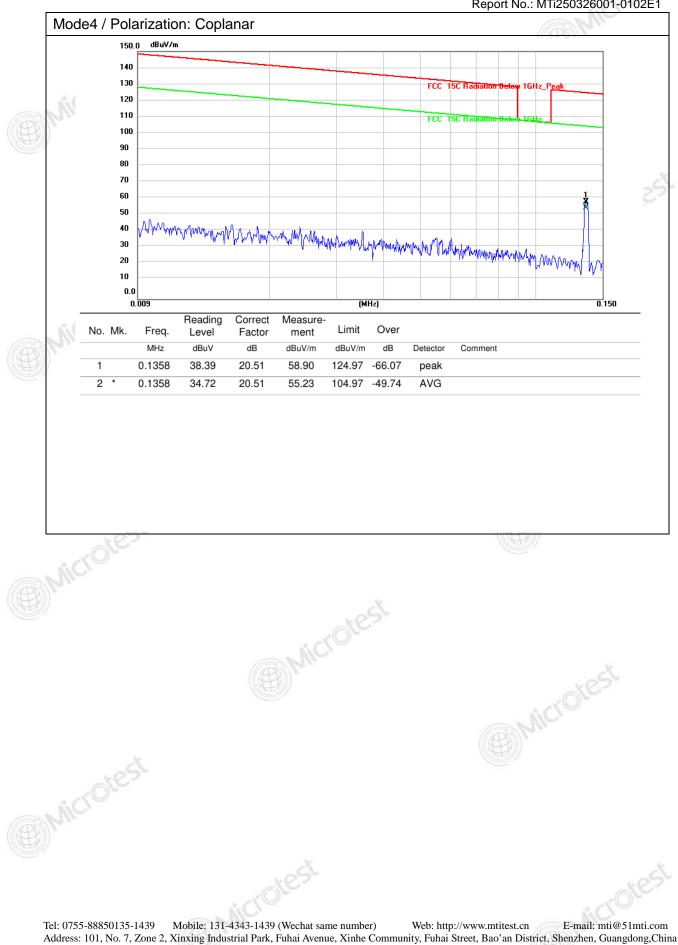
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Report No.: MTi250326001-0102E1



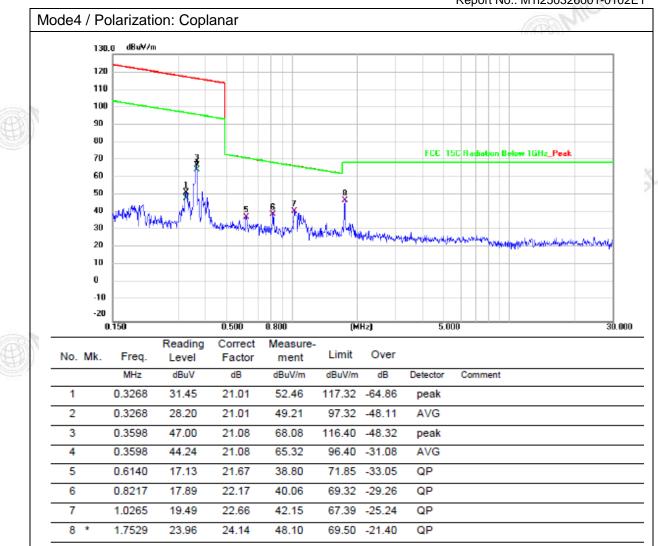
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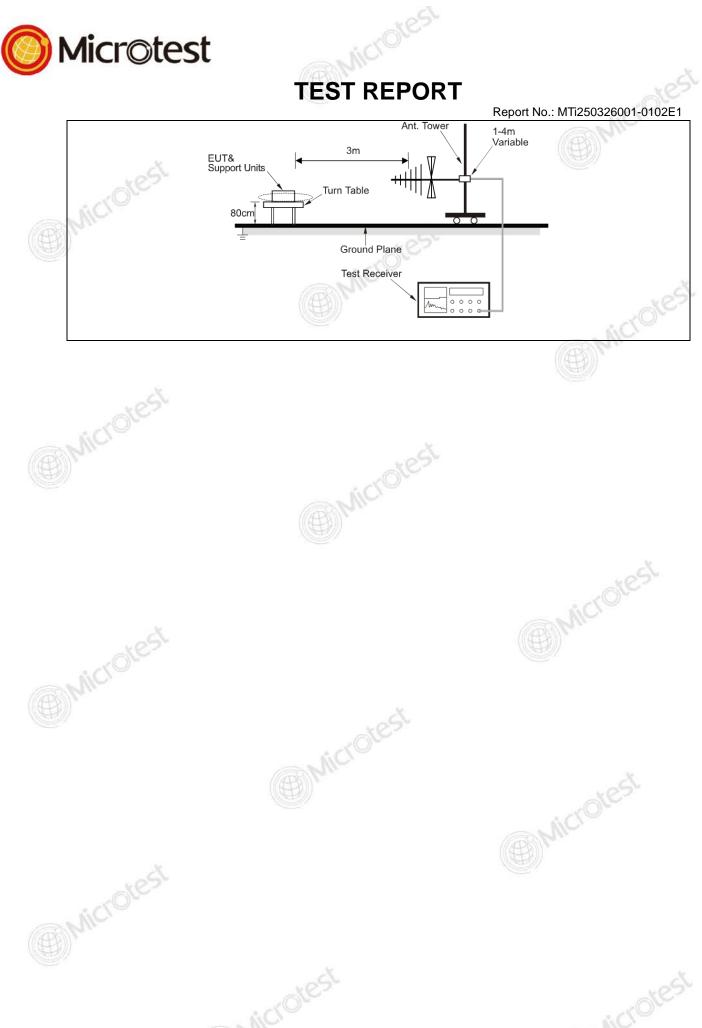
6.4 Emissions in frequency bands (30MHz - 1GHz)

Test Requirement:	47 CFR Part 15.209			
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measuremer 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	
Microtest	measurements employ frequency bands 9–90	own in the above table are baing a CISPR quasi-peak detecting a CISPR quasi-peak detector.	ector except for the e 1000 MHz.	
dest	As shown in § 15.35(b) strength limits in parag average limits. However not exceed the maximu more than 20 dB under operation under paragr shall not exceed 2500 r azimuth.	, for frequencies above 1000 raphs (a)and (b)of this section er, the peak field strength of a im permitted average limits section rany condition of modulation aph (b)of this section, the permillivolts/meter at 3 meters a	n are based on any emission shall specified above by . For point-to-point eak field strength	
Test Method:	As shown in § 15.35(b) strength limits in parag average limits. However not exceed the maximum more than 20 dB under operation under parage shall not exceed 2500 f	, for frequencies above 1000 raphs (a)and (b)of this section er, the peak field strength of a im permitted average limits section rany condition of modulation aph (b)of this section, the permillivolts/meter at 3 meters a	n are based on any emission shall specified above by . For point-to-point eak field strength	

Operating Environment:

Operating Envi	nonment.		2 (C)) ¹		
Temperature:	22.5 °C	Humidity:	43 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Μ	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				a of the worst	
6 / 2 Test Setup Diagram:					

6.4.2 Test Setup Diagram:



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6.4.3 Test Data: Mode4 / Polarization: Horizontal dBuV/m 80.0 70 60 FCC ClassB 3M Radiated QP Margin -6 dB 50 5 40 30 2 X 20 10 0.0 30.000 (MHz) 300.000 60.000 90.000 600.000 1000.0 Reading Correct Measure-No. Mk. Limit Over Freq. Level Factor ment MHz dBuV dB dBuV/m dBuV/m dB Detector Comment 1 43.5057 32.22 -6.88 25.34 40.00 -14.66 QP 2 -10.19 66.7325 36.86 26.67 40.00 -13.33 QP 157.0074 48.22 -9.41 38.81 QP 3 1 43.50 -4.69 4 246.8149 37.65 -6.28 31.37 46.00 -14.63 QP 5 377.2591 45.22 -3.49 46.00 -4.27 QP * 41.73 6 497.6765 32.15 -1.74 30.41 46.00 -15.59 QP

Microtest

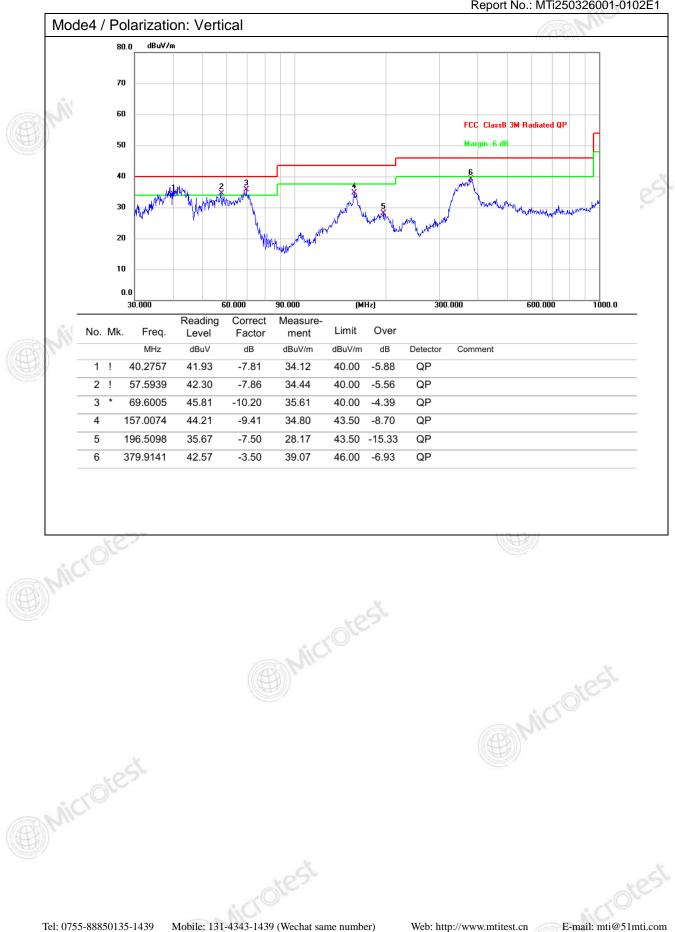
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TEST REPORT

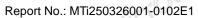
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Photographs of the test setup

Refer to Appendix - Test Setup Photos









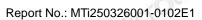




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Photographs of the EUT

Refer to Appendix - EUT Photos













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Microtest

Statement

- 1. This report is invalid without the seal and signature of the laboratory.
- 2. 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.
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