

Test Report

Report No.:	MTi240408022-06E2	
Date of issue:	2024-06-14	
Applicant:	ShenZhen ZhiHaiHe Tech Co.,Ltd	
Product:	Ducky Zero 6108 keyboard	
Model(s):	Ducky Zero 6108	
FCC ID:	2AF8O-6108	

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

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Test Result Certification			
Applicant: ShenZhen ZhiHaiHe Tech Co.,Ltd			
Address:	Unit B, 2nd Floor, Block 3, 10th Industrial Zone, Tian Liao Community, Gong Ming Area, Guang Ming New District, Shen Zhen, China		
Manufacturer:	ShenZhen ZhiHaiHe Tech Co.,Ltd		
Address:	Unit B, 2nd Floor, Block 3, 10th Industrial Zone, Tian Liao Community, Gong Ming Area, Guang Ming New District, Shen Zhen, China		
Product description			
Product name:	Ducky Zero 6108 keyboard		
Trademark:	Ducky		
Model name:	Ducky Zero 6108		
Series Model(s):	N/A		
Standards:	47 CFR Part 15.249		
Test Method:	ANSI C63.10-2013		
Date of Test			
Date of test:	2024-05-27 to 2024-06-14		
Test result:	Pass		

Test Engineer	:	Marleer 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:	Ducky Zero 6108 keyboard	
Model name:	Ducky Zero 6108	
Series Model(s):	N/A	
Model difference:	N/A	
Electrical rating:	Input: DC 5V 1000mA Battery: DC 3.7V 2500mAh	
Accessories:	Cable: USB-A to USB-C cable 150cm Dongle*1	
Hardware version:	DK2408-ZHH-HS-North-RGB-WL-V1	
Software version:	KB08_3M_V202404(ducky6108)	
Test sample(s) number:	MTi240408022-06S1001	
RF specification		
Operating frequency range:	2404-2478MHz	
Channel number:	38	
Modulation type:	GFSK	
Antenna(s) type:	PCB Antenna	
Antenna(s) gain:	2dBi	

1.2 Description of test modes

No.	Emission test modes
Mode1	TX-GFSK

1.2.1 Operation channel list

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480



Test Channel List

Lowest Channel (LCH)	Middle Channel (MCH)	Highest Channel (HCH)
(MHz)	(MHz)	(MHz)
2404	2442	2478

Note: The test software provided by manufacturer is used to control EUT for working in engineering mode, that enables selectable channel, and capable of continuous transmitting mode.

Test Software:

For power setting, refer to below table.

Test Software:	RF test tool		
Mode	2404MHz 2442MHz 2478MHz		
GFSK	002	002	002



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	MDY-08-EH YJ2808215006999 MI				
Support cable list					
Description	Length (m)	From	То		
1	1	1	/		

1.5 Measurement uncertainty

Measurement	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	±3.1dB
Occupied channel bandwidth	±3 %
Radiated spurious emissions (above 1GHz)	±5.3dB
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	Requirement	Result
1	Antenna requirement	47 CFR Part 15.203	Pass
2	Conducted Emission at AC power line	47 CFR 15.207(a)	Pass
3	Occupied Bandwidth	47 CFR 15.215(c)	Pass
4	Field strength of fundamental	47 CFR 15.249(a) 47 CFR 15.249(b)(1)	Pass
5	Band edge emissions (Radiated)	47 CFR 15.249(d)	Pass
6	Emissions in frequency bands (below 1GHz)	47 CFR 15.249(a) 47 CFR 15.249(d) 47 CFR 15.249(e)	Pass
7	Emissions in frequency bands (above 1GHz)	47 CFR 15.249(a) 47 CFR 15.249(d) 47 CFR 15.249(e)	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 En	nission at AC po	wer 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
		Occu	pied Bandwidth		·	
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
			ngth of fundame emissions (Radi uency bands (ab	ated)		
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2024-03-20	2025-03-19
2	Double Ridged Broadband Horn Antenna	schwarabeck	BBHA 9120 D	2278	2023-06-17	2025-06-16
3	Amplifier	Agilent	8449B	3008A01120	2024-03-20	2025-03-19
4	MXA signal analyzer	Agilent	N9020A	MY54440859	2024-03-21	2025-03-20
5	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2024-03-21	2025-03-20
6	Horn antenna	Schwarzbeck	BBHA 9170	00987	2023-06-17	2025-06-16
7	Pre-amplifier	Space-Dtronics	EWLAN1840 G	210405001	2024-03-21	2025-03-20
		Emissions in freq	uency bands (be	elow 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

6 Radio Spectrum Matter Test Results (RF)

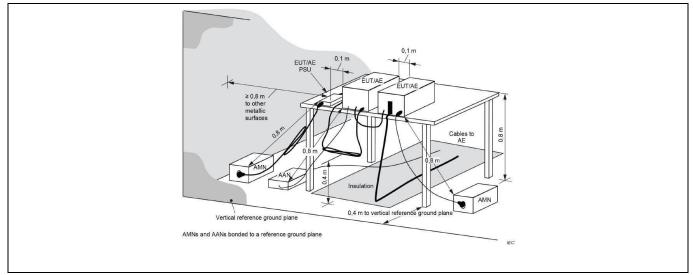
6.1 Conducted Emission at AC power line

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 (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:	Temperature: 19 °C Humidity: 40.1 % Atmospheric Pressure: 99 kPa							
Pre test mode:	Pre test mode: Mo							
Final test mode: Mod			e1					

6.1.2 Test Setup Diagram:





3.9180

4.9100

11 12 12.76

24.07

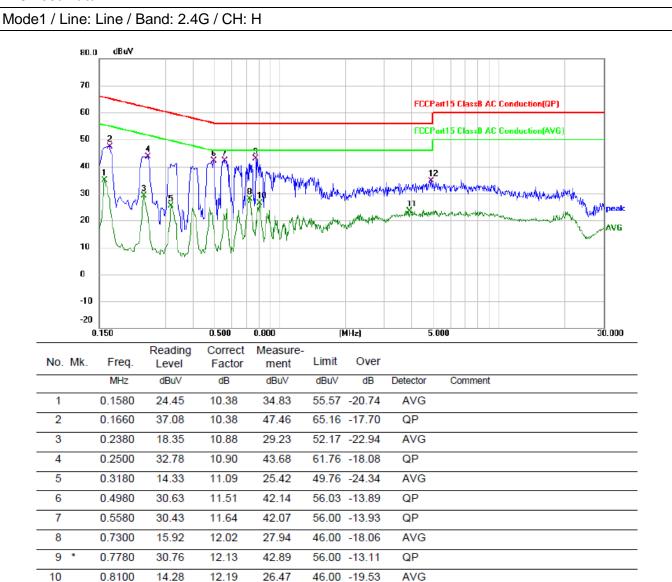
10.65

10.65

23.41

34.72

6.1.3 Test Data:



46.00 -22.59

56.00 -21.28

AVG

QP



11

12

3.9300

4.2579

24.65

14.43

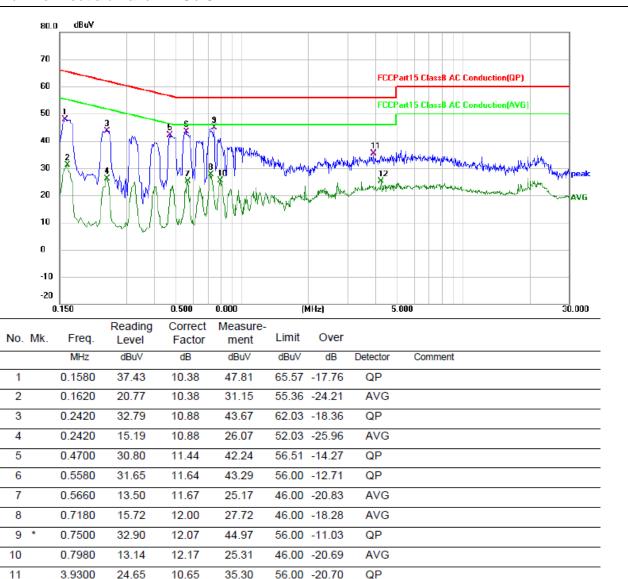
10.65

10.65

35.30

25.08

Mode1 / Line: Neutral / Band: 2.4G / CH: H



56.00 -20.70

46.00 -20.92

AVG



6.2 Occupied Bandwidth

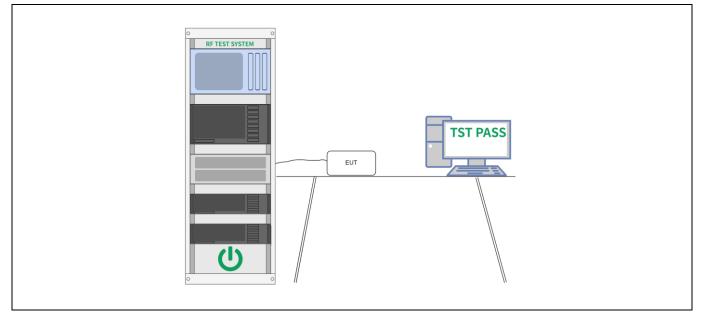
Test Requirement:	47 CFR 15.215(c)
Test Limit:	Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the 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 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



6.2.1 E.U.T. Operation:

Operating Environment:								
Temperature:	Temperature:29.6 °CHumidity:21.4 %Atmospheric Pressure:101 kPa							
Pre test mode:		Mode	e1					
Final test mode: Mod			e1					

6.2.2 Test Setup Diagram:

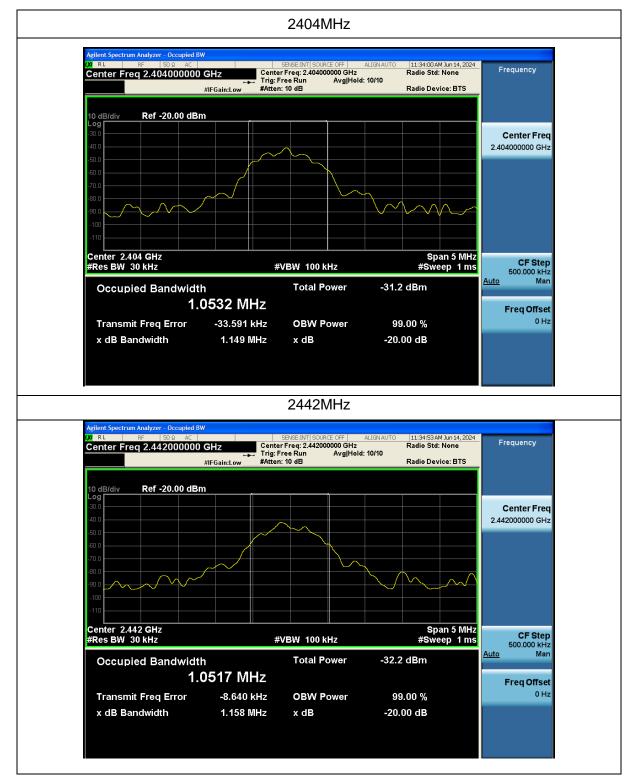




6.2.3 Test Data:

Frequency (MHz)	20dB bandwidth (MHz)	99% bandwidth (MHz)
2404	1.149	1.0532
2442	1.158	1.0517
2478	1.114	1.0153

Test plots





2478MHz





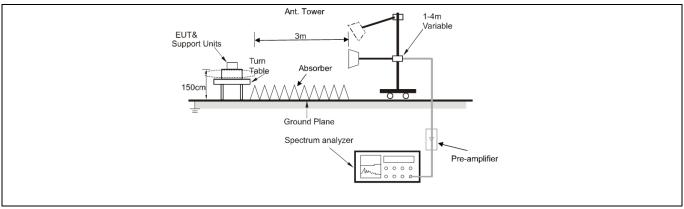
6.3 Field strength of fundamental

	Except as provided in paragraph (b)of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:							
	Fundamental	Field strength of	Field strength of					
	frequency	fundamental	harmonics					
		(millivolts/meter)	(microvolts/meter)					
Test Requirement:	902-928 MHz	50	500					
	2400-2483.5 MHz	50	500					
	5725-5875 MHz	50	500					
	24.0-24.25 GHz	250	2500					
	The field strength of en millivolts/meter.	nissions in this band sha	all not exceed 2500					
Test Method:	ANSI C63.10-2013 sec	tion 6.6						
Procedure:	ANSI C63.10-2013 sec	ANSI C63.10-2013 section 6.6						

6.3.1 E.U.T. Operation:

Operating Environment:								
Temperature:	Temperature: 24 °C Humidity: 54 % Atmospheric Pressure: 101 kPa							
Pre test mode: M			e1					
Final test mode	e:	Mode	e1					

6.3.2 Test Setup Diagram:







6.3.3 Test Data:

Frequency	Ant. Polarization	Emission level	Limits	Detector	Result
(MHz)	H/V	dBµV/m	dBµV/m		
2404	Н	85.74	114	PK	PASS
2404	Н	85.23	94	AV	PASS
2404	V	84.51	114	PK	PASS
2404	V	84.01	94	AV	PASS

Frequency	Ant. Polarization	Emission level	Limits	Detector	Result
(MHz)	H/V	dBµV/m	dBµV/m		
2442	Н	85.22	114	PK	PASS
2442	Н	83.29	94	AV	PASS
2442	V	84.17	114	PK	PASS
2442	V	82.38	94	AV	PASS

Frequency	Ant. Polarization	Emission level	Limits	Detector	Result
(MHz)	H/V	dBµV/m	dBµV/m		
2478	Н	80.78	114	PK	PASS
2478	Н	80.29	94	AV	PASS
2478	V	80.85	114	PK	PASS
2478	V	80.30	94	AV	PASS



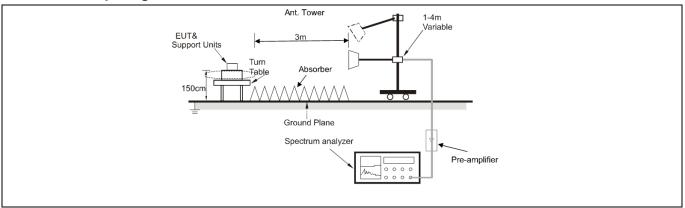
6.4 Band edge emissions (Radiated)

Test Requirement:	harmonics, shall be atte	side of the specified frequent enuated by at least 50 dB be eneral radiated emission lim n.	low the level of the
Test Limit:	harmonics, shall be atte	side of the specified frequence enuated by at least 50 dB be eneral radiated emission lim	low the level of the
	Frequency (MHz)	Field strength (microvolts/meter)	Measuremen 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
	intentional radiators op frequency bands 54-72 However, operation with sections of this part, e.g In the emission table al The emission limits sho employing a CISPR qua kHz, 110–490 kHz and three bands are based	n paragraph (g), fundamenta erating under this section sha MHz, 76-88 MHz, 174-216 M nin these frequency bands is g., §§ 15.231 and 15.241. bove, the tighter limit applies own in the above table are ba asi-peak detector except for above 1000 MHz. Radiated on measurements employing	all not be located in the MHz or 470-806 MHz. permitted under other at the band edges. ased on measurements the frequency bands 9–90 emission limits in these
Test Method:	ANSI C63.10-2013 sec	tion 6.6.4	
Procedure:	ANSI C63.10-2013 sec	tion 6 6 4	

6.4.1 E.U.T. Operation:

Operating Environment:						
Temperature:	24 °C		Humidity:	54 %	Atmospheric Pressure:	101 kPa
Pre test mode:		Mode	e1			
Final test mode	e:	Mode	e1			

6.4.2 Test Setup Diagram:





6.4.3 Test Data:

Mode1 /	Polari	zatio	n: Horizonta	al / Band: 2.	4G / CH: L				
	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
	1		2310.000	52.22	-12.92	39.30	74.00	-34.70	peak
	2		2310.000	42.07	-12.92	29.15	54.00	-24.85	AVG
	3	*	2390.000	65.62	-12.49	53.13	74.00	-20.87	peak
	4		2390.000	43.10	-12.49	30.61	54.00	-23.39	AVG
	5		2400.000	62.39	-12.44	49.95	74.00	-24.05	peak
	6		2400.000	44.37	-12.44	31.93	54.00	-22.07	AVG

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2310.000	52.29	-12.92	39.37	74.00	-34.63	peak
2		2310.000	41.80	-12.92	28.88	54.00	-25.12	AVG
3	*	2390.000	64.36	-12.49	51.87	74.00	-22.13	peak
4		2390.000	42.77	-12.49	30.28	54.00	-23.72	AVG
5		2400.000	61.34	-12.44	48.90	74.00	-25.10	peak
6		2400.000	44.24	-12.44	31.80	54.00	-22.20	AVG



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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2483.500	58.49	-12.50	45.99	74.00	-28.01	peak
2	*	2483.500	43.04	-12.50	30.54	54.00	-23.46	AVG
3		2500.000	52.55	-12.41	40.14	74.00	-33.86	peak
4		2500.000	42.37	-12.41	29.96	54.00	-24.04	AVG

ode1 / Polar	izatio	on: Vertical /	Band: 2.40	6 / CH: H				
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2483.500	57.95	-12.50	45.45	74.00	-28.55	peak
2		2483.500	42.88	-12.50	30.38	54.00	-23.62	AVG
3		2500.000	53.06	-12.41	40.65	74.00	-33.35	peak
4	*	2500.000	43.84	-12.41	31.43	54.00	-22.57	AVG



6.5 Emissions in frequency bands (below 1GHz)

Test Requirement:	47 CFR 15.249(a) 47 CFR 15.249(d) 47 CFR 15.249(e)						
Test Limit:		•	ion, the field strength of /ithin these frequency bands				
	Fundamental	Field strength of	Field strength of				
	frequency	fundamental	harmonics				
	licqueriey	(millivolts/meter)	(microvolts/meter)				
	902-928 MHz	50	500				
	2400-2483.5 MHz	50	500				
	5725-5875 MHz	50	500				
	24.0-24.25 GHz	250	2500				
	harmonics, shall be atte	enuated by at least 50 d					
	is the lesser attenuation		n limits in § 15.209, whicheve				
	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 i	n paragraph (g), fundam	ental emissions from				
	frequency bands 54-72 However, operation wit sections of this part, e.g In the emission table al The emission limits sho employing a CISPR qu	2 MHz, 76-88 MHz, 174-2 hin these frequency ban g., §§ 15.231 and 15.24 bove, the tighter limit ap own in the above table a asi-peak detector excep	plies at the band edges. re based on measurements t for the frequency bands 9–9				
	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 me	eters along the antenna a	azimuth.				
Test Method:	millivolts/meter at 3 me ANSI C63.10-2013 sec		azimuth.				

6.5.1 E.U.T. Operation:

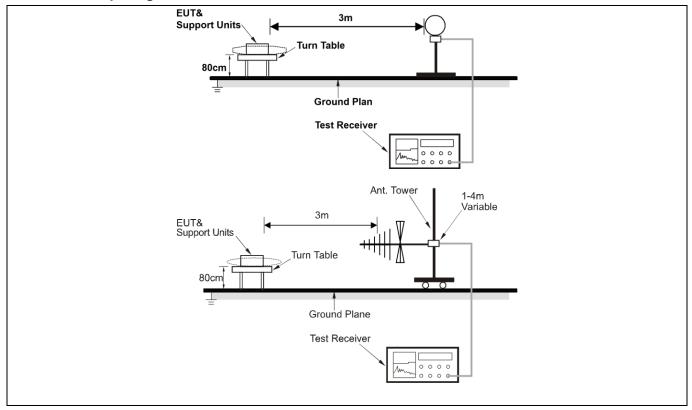
Operating Envi	ironment:				
Temperature:	24 °C	Humidity:	54 %	Atmospheric Pressure:	101 kPa

Address: 101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China.Tel: (86-755)88850135Fax: (86-755) 88850136Web: www.mtitest.cnE-mail: mti@51mti.com



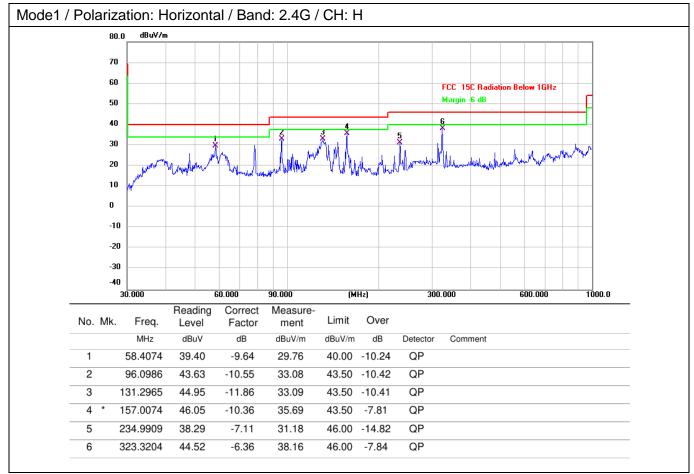
Pre test mode:	Mode1
Final test mode:	Mode1

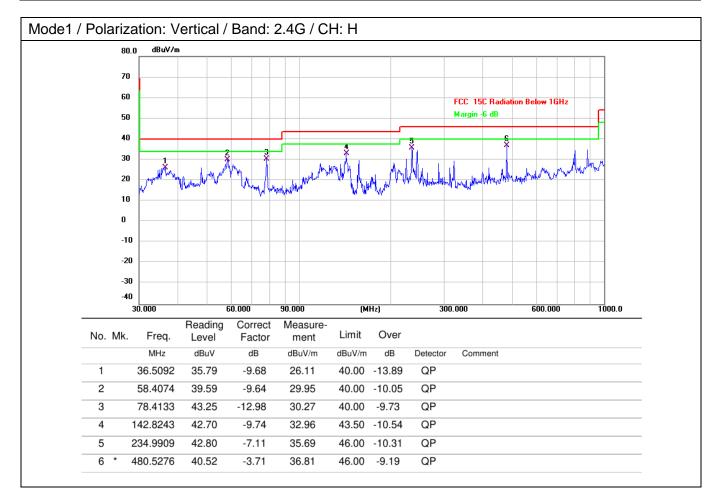
6.5.2 Test Setup Diagram:





6.5.3 Test Data:







6.6 Emissions in frequency bands (above 1GHz)

Test Requirement:	47 CFR 15.249(a) 47 CFR 15.249(d) 47 CFR 15.249(e)		
Test Limit:			on, the field strength of ithin these frequency bands
	Fundamental	Field strength of	Field strength of
	frequency	fundamental (millivolts/meter)	harmonics (microvolts/meter)
	902-928 MHz	50	500
	2400-2483.5 MHz	50	500
	5725-5875 MHz	50	500
	24.0-24.25 GHz	250	2500
	is the lesser attenuation Frequency (MHz)	n. Field strength (microvolts/meter)	Measuremen t distance
		(microvolts/meter)	
	0.009-0.490		(meters) 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
		500	3
	Above 960	500	-
	** Except as provided in intentional radiators op frequency bands 54-72 However, operation with	n paragraph (g), fundam erating under this sectio MHz, 76-88 MHz, 174-2 hin these frequency ban	ental emissions from n shall not be located in the 216 MHz or 470-806 MHz. ds is permitted under other
	** Except as provided in intentional radiators op frequency bands 54-72 However, operation with sections of this part, e.g In the emission table al The emission limits sho employing a CISPR qua kHz, 110–490 kHz and	n paragraph (g), fundamerating under this sectio MHz, 76-88 MHz, 174-2 hin these frequency ban g., §§ 15.231 and 15.24 pove, the tighter limit appendent own in the above table a asi-peak detector excep above 1000 MHz. Radia	ental emissions from n shall not be located in the 216 MHz or 470-806 MHz. ds is permitted under other 1. plies at the band edges. re based on measurements t for the frequency bands 9–9 ated emission limits in these
	** Except as provided in intentional radiators op frequency bands 54-72 However, operation with sections of this part, e.g In the emission table at The emission limits sho employing a CISPR qua kHz, 110–490 kHz and three bands are based As shown in § 15.35(b) limits in paragraphs (a) However, the peak field maximum permitted ave	n paragraph (g), fundamerating under this sectio MHz, 76-88 MHz, 174-2 hin these frequency ban g., §§ 15.231 and 15.24 bove, the tighter limit appown in the above table a asi-peak detector excep above 1000 MHz. Radia on measurements empl , for frequencies above and (b)of this section are strength of any emission erage limits specified ab	ental emissions from n shall not be located in the 216 MHz or 470-806 MHz. ds is permitted under other 1. blies at the band edges. re based on measurements t for the frequency bands 9–9 ated emission limits in these oying an average detector. 1000 MHz, the field strength be based on average limits. on shall not exceed the ove by more than 20 dB under
	** Except as provided in intentional radiators op- frequency bands 54-72 However, operation with sections of this part, e.g In the emission table at The emission limits sho employing a CISPR qua kHz, 110–490 kHz and three bands are based As shown in § 15.35(b) limits in paragraphs (a) However, the peak field maximum permitted ava any condition of modula (b)of this section, the peak	n paragraph (g), fundamerating under this sectio MHz, 76-88 MHz, 174-2 hin these frequency ban g., §§ 15.231 and 15.24 bove, the tighter limit approvention the above table a asi-peak detector exception above 1000 MHz. Radia on measurements emplies, for frequencies above and (b) of this section and strength of any emission erage limits specified ab ation. For point-to-point eak field strength shall n	ental emissions from n shall not be located in the 216 MHz or 470-806 MHz. ds is permitted under other 1. olies at the band edges. re based on measurements t for the frequency bands 9–9 ated emission limits in these oying an average detector. 1000 MHz, the field strength based on average limits. on shall not exceed the ove by more than 20 dB unde operation under paragraph ot exceed 2500
Test Method:	** Except as provided in intentional radiators op- frequency bands 54-72 However, operation with sections of this part, e.g In the emission table at The emission limits sho employing a CISPR qua kHz, 110–490 kHz and three bands are based As shown in § 15.35(b) limits in paragraphs (a) However, the peak field maximum permitted ava any condition of modula (b)of this section, the peak	n paragraph (g), fundamerating under this sectio MHz, 76-88 MHz, 174-2 hin these frequency ban g., §§ 15.231 and 15.24 bove, the tighter limit approventiate asi-peak detector exception above 1000 MHz. Radia on measurements emplies , for frequencies above and (b)of this section are strength of any emission erage limits specified abtion. For point-to-point eak field strength shall not ters along the antenna a	ental emissions from n shall not be located in the 216 MHz or 470-806 MHz. ds is permitted under other 1. olies at the band edges. re based on measurements t for the frequency bands 9–9 ated emission limits in these oying an average detector. 1000 MHz, the field strength based on average limits. on shall not exceed the ove by more than 20 dB unde operation under paragraph ot exceed 2500

6.6.1 E.U.T. Operation:

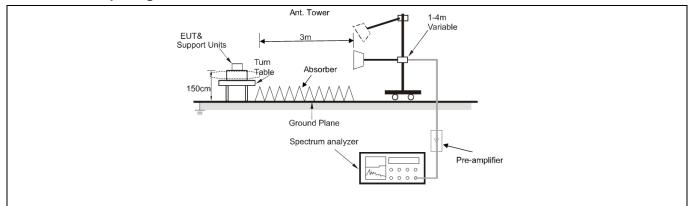
Operating Env	ironment:				
Temperature:	24 °C	Humidity:	54 %	Atmospheric Pressure:	101 kPa

Address: 101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China.Tel: (86-755)88850135Fax: (86-755) 88850136Web: www.mtitest.cnE-mail: mti@51mti.com



Pre test mode:	Mode1
Final test mode:	Mode1

6.6.2 Test Setup Diagram:





6.6.3 Test Data:

Mode1 /	Polariz	atio	n: Horizonta	al / Band: 2.	4G / CH: L					
	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	
	1		4808.000	49.17	-7.72	41.45	74.00	-32.55	peak	
	2		4808.000	43.19	-7.72	35.47	54.00	-18.53	AVG	
	3		7212.000	51.41	0.79	52.20	74.00	-21.80	peak	
	4	*	7212.000	45.79	0.79	46.58	54.00	-7.42	AVG	
	5		9616.000	48.73	1.83	50.56	74.00	-23.44	peak	_
	6		9616.000	42.53	1.83	44.36	54.00	-9.64	AVG	_

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4808.000	48.73	-7.70	41.03	74.00	-32.97	peak
2		4808.000	43.37	-7.72	35.65	54.00	-18.35	AVG
3		7212.000	52.24	0.79	53.03	74.00	-20.97	peak
4	*	7212.000	46.86	0.79	47.65	54.00	-6.35	AVG
5		9616.000	48.20	1.83	50.03	74.00	-23.97	peak
6		9616.000	42.79	1.83	44.62	54.00	-9.38	AVG



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No. N	lk. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	4884.000	49.45	-7.84	41.61	74.00	-32.39	peak
2	4884.000	43.31	-7.84	35.47	54.00	-18.53	AVG
3	7326.000	49.66	0.65	50.31	74.00	-23.69	peak
4	7326.000	43.67	0.65	44.32	54.00	-9.68	AVG
5	9768.000	47.99	2.62	50.61	74.00	-23.39	peak
6 *	9768.000	42.00	2.62	44.62	54.00	-9.38	AVG

No	. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4884.000	49.85	-7.84	42.01	74.00	-31.99	peak
2	2	4884.000	44.05	-7.84	36.21	54.00	-17.79	AVG
3	3	7326.000	53.98	0.65	54.63	74.00	-19.37	peak
4	t *	7326.000	48.00	0.65	48.65	54.00	-5.35	AVG
5	5	9768.000	47.68	2.62	50.30	74.00	-23.70	peak
6	5	9768.000	41.96	2.62	44.58	54.00	-9.42	AVG



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No. N	lk. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	4956.000	50.39	-7.76	42.63	74.00	-31.37	peak
2	4956.000	44.30	-7.76	36.54	54.00	-17.46	AVG
3	7434.000	49.22	0.80	50.02	74.00	-23.98	peak
4	7434.000	43.89	0.80	44.69	54.00	-9.31	AVG
5	9912.000	49.29	2.49	51.78	74.00	-22.22	peak
6 *	9912.000	42.75	2.49	45.24	54.00	-8.76	AVG

No	. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4956.000	50.20	-7.76	42.44	74.00	-31.56	peak
2		4956.000	44.01	-7.76	36.25	54.00	-17.75	AVG
3		7434.000	50.57	0.80	51.37	74.00	-22.63	peak
4	*	7434.000	44.85	0.80	45.65	54.00	-8.35	AVG
5		9912.000	47.98	2.49	50.47	74.00	-23.53	peak
6		9912.000	41.83	2.49	44.32	54.00	-9.68	AVG



Photographs of the test setup

Refer to Appendix - Test Setup Photos



Photographs of the EUT

Refer to Appendix - EUT Photos

----End of Report----