

CTC Laboratories, Inc.

Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel: +86-755- 27521059 Fax: +86-755- 27521011 Http://www.sz-ctc.org.cn

	TEST REPORT	
Report No. ·····:	CTC2024118502	
FCC ID······:	2BCUQ-H6W	
Applicant······:	Fanvil Link Technology Co.,LTD	
Address······	A03, A08, 3rd Floor, Building 2, Daqia Xingdong Community, Xin'an Street, B	
Manufacturer	Fanvil Link Technology Co.,LTD	
Address······	A03, A08, 3rd Floor, Building 2, Daqia Xingdong Community, Xin'an Street, B	
Product Name·····:	Hotel Phone	
Trade Mark······	Fanvil	
Model/Type reference······:	H6W	
Listed Model(s) ······	H4W	
Standard·····:	FCC CFR Title 47 Part 15 Subpart C Section 15.247	
Date of receipt of test sample:	May. 21, 2024	
Date of testing	May. 22, 2024 ~ Jun. 05, 2024	
Date of issue	Jun. 06, 2024	
Result:	PASS	
Compiled by:		
(Printed name+signature)	Terry Su	Perry Ju
Supervised by:		7-1, shang
(Printed name+signature)	Eric Zhang	Tenny Su Zric zhang Lamas
Approved by:		1 Inas
(Printed name+signature)	Totti Zhao	10000
Testing Laboratory Name:	CTC Laboratories, Inc.	
Address	Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China	
This test report may be duplicated completely for legal use with the approval of the applicant. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it		

This test report may be duplicated completely for legal use with the approval of the applicant. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product endorsement by CTC. The test results in the report only apply to the tested sample. The test report shall be invalid without all the signatures of testing engineers, reviewer and approver. Any objections must be raised to CTC within 15 days since the date when the report is received. It will not be taken into consideration beyond this limit. The test report merely correspond to the test sample.



Table of Contents

Page

1. 1	TEST SUMMARY	
1.1	1. Test Standards	3
1.2	2. REPORT VERSION	3
1.3	3. Test Description	4
1.4		
1.5	5. Measurement Uncertainty	5
1.6	5. Environmental conditions	6
2. (GENERAL INFORMATION	7
2.1	1. Client Information	7
2.2	2. GENERAL DESCRIPTION OF EUT	7
2.3	3. Accessory Equipment information	8
2.4		
2.5	5. Measurement Instruments List	11
3. 1	TEST ITEM AND RESULTS	13
3.1	1. Conducted Emission	13
3.2	2. Radiated Emission	
3.3	3. Band Edge Emissions (Radiated)	60
3.4		
3.5		
3.6		
3.7		
3.8		
3.9	Antenna requirement	137



1. TEST SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.247: Operation within the bands of 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz.

<u>RSS 247 Issue 3:</u> Standard Specifications for Frequency Hopping Systems (FHSs) and Digital Transmission Systems (DTSs) Operating in the Bands 902-928MHz, 2400-2483.5MHz and 5725-5850MHz.

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.

1.2. Report version

Revised No.	Report No.	Date of issue	Description
01	CTC2024118502	Jun. 06, 2024	Original



1.3. Test Description

FCC Part 15 Subpart C (15.247) / RSS 247 Issue 3				
Test Item	Standard Section		Result	Test
rest item	FCC	IC	Result	Engineer
Antenna Requirement	15.203	/	Pass	Alicia Liu
Conducted Emission	15.207	RSS-Gen 8.8	Pass	Cecilia Luo
Radiated Band Edge and Spurious Emissions	15.205&15.209& 15.247(d)	RSS 247 5.5	Pass	Alicia Liu
Conducted Band Edge and Spurious Emissions	15.247(d)	RSS 247 5.5	Pass	Alicia Liu
6dB Bandwidth	15.247(a)(2)	RSS 247 5.2 (a)	Pass	Alicia Liu
Conducted Max Output Power	15.247(b)(3)	RSS 247 5.4 (d)	Pass	Alicia Liu
Power Spectral Density	15.247(e)	RSS 247 5.2 (b)	Pass	Alicia Liu
Transmitter Radiated Spurious	15.209&15.247(d)	RSS 247 5.5& RSS-Gen 8.9	Pass	Alicia Liu

Note: The measurement uncertainty is not included in the test result.



1.4. Test Facility

CTC Laboratories, Inc.

Add: Room 101 Building B, Room 107, 108, 207, 208, 303 Building A, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China (Formerly 2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, High-Tech Park, Guanlan Sub-District, Longhua New District, Shenzhen, Guangdong, China)

Laboratory accreditation

The test facility is recognized, certified, or accredited by the following organizations:

A2LA-Lab Cert. No.: 4340.01

CTC Laboratories, Inc. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

Industry Canada (Registration No.: 9783A, CAB Identifier: CN0029)

CTC Laboratories, Inc. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 9783A on Jan, 2016.

FCC (Registration No.: 951311, Designation Number CN1208)

CTC Laboratories, Inc. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained inour files. Registration 951311, Aug 26, 2017.

1.5. Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement characteristics; Part 2" and is documented in the CTC Laboratories, Inc. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Below is the best measurement capability for CTC Laboratories, Inc.

CTC Laboratories, Inc.



Test Items	Measurement Uncertainty	Notes
DTS Bandwidth	±0.0196%	(1)
Maximum Conducted Output Power	±0.686 dB	(1)
Maximum Power Spectral Density Level	±0.743 dB	(1)
Band-edge Compliance	±1.328 dB	(1)
Unwanted Emissions In Non-restricted Freq Bands	9kHz-1GHz: ±0.746dB 1GHz-26GHz: ±1.328dB	(1)
Conducted Emissions 9kHz~30MHz	±3.08 dB	(1)
Radiated Emissions 30~1000MHz	±4.51 dB	(1)
Radiated Emissions 1~18GHz	±5.84 dB	(1)
Radiated Emissions 18~40GHz	±6.12 dB	(1)

Note (1): This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

1.6. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	21°C ~ 27°C
Relative Humidity:	40% ~ 60%
Air Pressure:	101kPa

CTC Laboratories, Inc. Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Tel.: (86)755-27521059 中国国家认证认可监督管理委员会 For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : <u>yz.cnca.cn</u>



2. GENERAL INFORMATION

2.1. Client Information

Applicant:	Fanvil Link Technology Co.,LTD
Address:	A03, A08, 3rd Floor, Building 2, Daqian Industrial Plant, Zone 67, Xingdong Community, Xin'an Street, Bao'an District, Shenzhen, China
Manufacturer:	Fanvil Link Technology Co.,LTD
Address:	A03, A08, 3rd Floor, Building 2, Daqian Industrial Plant, Zone 67, Xingdong Community, Xin'an Street, Bao'an District, Shenzhen, China

2.2. General Description of EUT

Product Name:	Hotel Phone
Trade Mark:	Fanvil
Model/Type reference:	H6W
Listed Model(s):	H4W
Model Different:	All these models are identical in the same PCB, layout and electrical circuit, The only difference is H4W without screen.
Power supply:	5Vdc/2A from AC/DC Adapter 48Vdc from POE
Adapter 1 Model:	F12L20-050200SPAU Input: 100-240V~ 50/60Hz 0.3A Output: 5Vdc/2A
Adapter 2 Model:	DCT12W050200US Input: 100-240V~ 50/60Hz 0.3A Max Output: 5Vdc/2A
Hardware version:	/
Software version:	/
WIFI 802.11b/ g/ n(HT20)/	n(HT40)/ ax(HE20)/ ax(HE40)
Modulation:	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/ n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Operation frequency:	802.11b/ g/ n(HT20)/ ax(HE20): 2412MHz~2462MHz 802.11n(HT40)/ ax(HE40): 2422MHz~2452MHz
Channel number:	802.11b/ g/ n(HT20)/ ax(HE20): 11channels 802.11n(HT40)/ ax(HE40): 7channels
Channel separation:	5MHz
Antenna type:	FPC Antenna
Antenna gain:	4.2dBi Max

CTC Laboratories, Inc.

EN



2.3. Accessory Equipment information

Equipment Information			
Name	Model	S/N	Manufacturer
Notebook	ThinkBook 14G3 ACL	MP246QDR	Lenovo
1	1	1	1
Cable Information			
Name	Shielded Type	Ferrite Core	Length
/	1	1	1
Test Software Information			
Name	Versions	1	1
SecureCRTPortable	7.0.0.326	1	1

CTC Laboratories, Inc. Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Tel.: (86)755-27521059 中国国家认证认可监督管理委员会 CTC Laboratories, Inc. Fax: (86)755-27521011 Fax: (86)755-27521011 For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : <u>yz.cnca.cn</u>



2.4. Operation state

Operation Frequency List: The EUT has been tested under typical operating condition. The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing.

Operation Frequency List:

Channel	Frequency (MHz)
01	2412
02	2417
03	2422
04	2427
05	2432
06	2437
07	2442
08	2447
09	2452
10	2457
11	2462

Note: CH 01~CH 11 for 802.11b/g/n(HT20)/ax(HE20), CH 03~CH 09 for 802.11n(HT40)/ax(HE40).

Data Rated

Preliminary tests were performed in different data rate, and found which the below bit rate is worst case mode, so only show data which it is a worst case mode.

Mode	Data rate (worst mode)
802.11b	1Mbps
802.11g	6Mbps
802.11n(HT20)/ (HT40)	HT-MCS0
802.11ax(HE20)/ (HE40)	HE-MCS0

RU Configuration

Operating Mode	Resource Unit	242 Tone (20M)
802.11ax(HE20)	Specific Resource Unit	61
Operating Mode	Resource Unit	484 Tone (40M)
802.11ax(HE40)	Specific Resource Unit	65

CTC Laboratories, Inc.



Test mode

For RF test items:

The engineering test program was provided and enabled to make EUT continuous transmit.

For AC power line conducted emissions:

The EUT was set to connect with the WLAN AP under large package sizes transmission.

For Radiated spurious emissions test item:

The engineering test program was provided and enabled to make EUT continuous transmit. The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data Recorded in the report.



2.5. Measurement Instruments List

RF Te	est System				
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated Until
1	Spectrum Analyzer	R&S	FSV40-N	101331	Mar. 21, 2025
2	Spectrum Analyzer	R&S	FSV40-N	101654	Aug. 07, 2024
3	Spectrum Analyzer	R&S	FSU26	100105	Dec. 12, 2024
4	MXA Signal Analyzer	Keysight	N9020A	MY46471737	Dec. 12, 2024
5	MXA Signal Analyzer	Keysight	N9020A	MY52091402	Aug. 22, 2024
6	MXG Vector Signal Generator	Agilent	N5182A	MY47420864	Dec. 12, 2024
7	PSG Analog Signal Generator	Agilent	E8257D	MY46521908	Dec. 12, 2024
8	EXG Analog Signal Generator	Keysight	N5173B	MY59100842	Dec. 12, 2024
9	MXG Vector Signal Generator	Keysight	N5182B	MY59100212	Dec. 12, 2024
10	USB Wideband Power Sensor	Keysight	U2021XA	MY55130004	Mar. 21, 2025
11	USB Wideband Power Sensor	Keysight	U2021XA	MY55130006	Mar. 21, 2025
12	Wideband Radio Communication Tester	R&S	CMW500	102257	May. 24, 2025
13	Wideband Radio Communication Tester	R&S	CMW500	102414	Dec. 12, 2024
14	RF Control Unit	Tonscend	JS0806-2	/	Aug. 22, 2024
15	High and low temperature test chamber	ESPEC	MT3035	1	Mar. 21, 2025
16	Test Software	Tonscend	JS1120-3	V2.6.88.0346	/
17	Test Software	Tonscend	JS1120-3	V3.3.38	/
18	Test Software	WCS	WCS-WCN	2023.08.04	1

Radia	ted Emission (3m chamber 2)			
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated Until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	9168-1013	Dec. 07, 2024
2	Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-648	Dec. 07, 2024
3	Spectrum Analyzer	R&S	FSU26	100105	Dec. 12, 2024
4	Spectrum Analyzer	R&S	FSV40-N	101331	Mar. 15, 2025
5	Pre-Amplifier	SONOMA	310	186194	Dec. 12, 2024
6	Low Noise Pre-Amplifier	EMCI	EMC051835	980075	Dec. 12, 2024
7	Test Receiver	R&S	ESCI7	100967	Dec. 12, 2024
8	3m chamber 2	Frankonia	EE025	1	Oct. 23, 2024
9	Test Software	FARA	EZ-EMC	FA-03A2	1

Radia	Radiated Emission (3m chamber 3)							
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated Until			
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9163	01026	Dec. 18, 2024			

CTC Laboratories, Inc.

EN 中国国家认证认可监督管理委员会

Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Tel.: (86)755-27521059 下部 中国国家认证认可监督管理委员会



2	Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-647	Dec. 01, 2024
3	Test Receiver	Keysight	N9038A	MY56400071	Dec. 12, 2024
4	Broadband Amplifier	SCHWARZBECK	BBV9743B	259	Dec. 12, 2024
5	Mirowave Broadband Amplifier	SCHWARZBECK	BBV9718C	111	Dec. 12, 2024
6	3m chamber 3	YIHENG	EE106	/	Aug. 28, 2026
7	Test Software	FARA	EZ-EMC	FA-03A2	/

Condu	ucted Emission				
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated Until
1	LISN	R&S	ENV216	101112	Dec. 12, 2024
2	LISN	R&S	ENV216	101113	Dec. 12, 2024
3	EMI Test Receiver	R&S	ESCS30	100353	Dec. 12, 2024
4	ISN CAT6	Schwarzbeck	NTFM 8158	CAT6-8158-0046	Dec. 12, 2024
5	ISN CAT5	Schwarzbeck	NTFM 8158	CAT5-8158-0046	Dec. 12, 2024
6	Test Software	R&S	EMC32	6.10.10	1

Note: 1. The Cal. Interval was one year.

2. The Cal. Interval was three year of the chamber

3. The cable loss has calculated in test result which connection between each test instruments.



3.TEST ITEM AND RESULTS

3.1. Conducted Emission

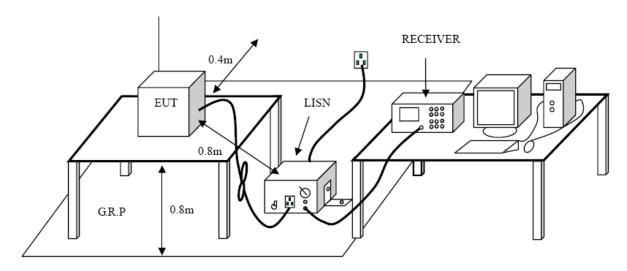
<u>Limit</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.207/ RSS - Gen 8.8:

	Limit (dBuV)				
Frequency range (MHz)	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 Configuration



Test Procedure

1. The EUT was setup according to ANSI C63.10:2013 requirements.

2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.

3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)

4. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

5. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

6. Conducted Emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

7. During the above scans, the emissions were maximized by cable manipulation.

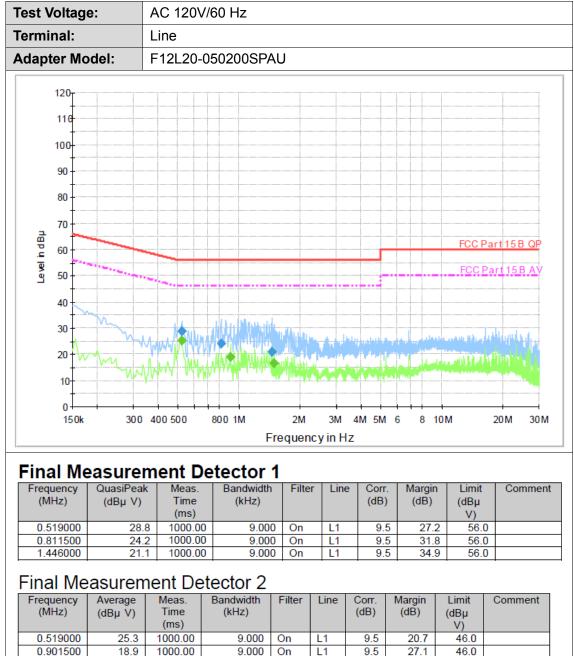
	CTC Laboratories, Inc.
Room 101 Building B, No. 7, Langing 1st Road, Luhu	I Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China
Tel.: (86)755-27521059	Fax: (86)755-27521011 Http://www.sz-ctc.org.cn
EN 中国国家认证认可监督管理委员会 Centralization and Accordances Accordances of the Perspective Registrer of Chrone	For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : <u>yz.cnca.cn</u>



Test Mode:

Please refer to the clause 2.4.

Test Results



Emission Level= Read Level+ Correct Factor

1000.00

16.7

1.477500

EN

CTC Laboratories, Inc.

9.000 On

L1

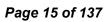
9.5

29.3

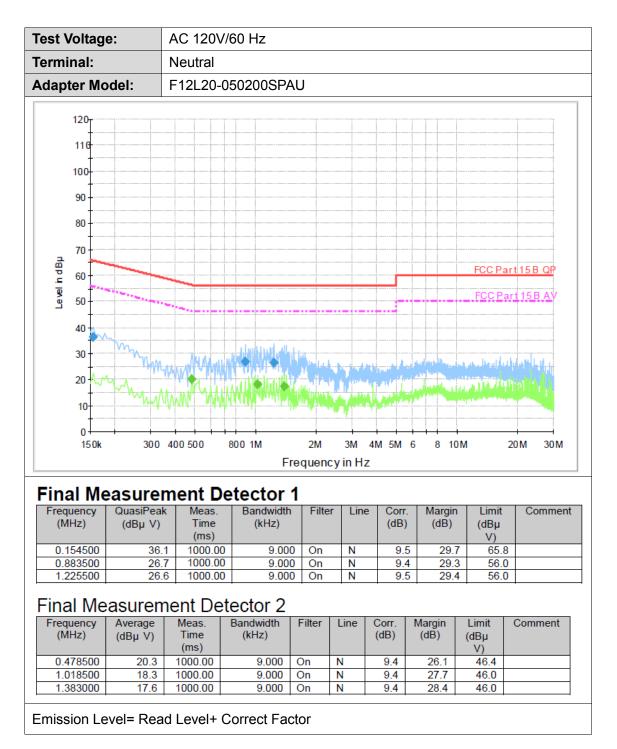
46.0

Tel.: (86)755-27521059 中国国家认证认可监督管理委员会

Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Fax: (86)755-27521011 Http://www.sz-ctc.org.cn For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : yz.cnca.cn







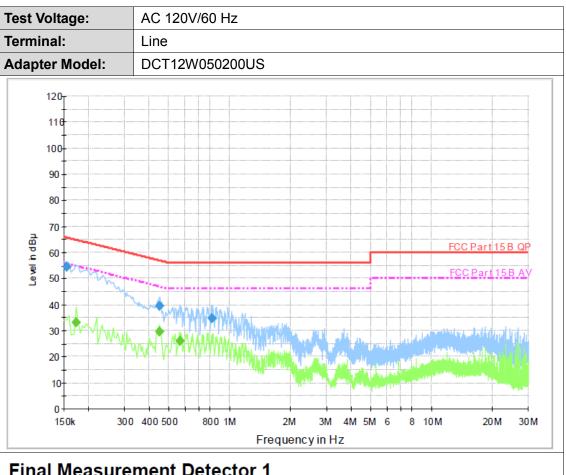
CTC Laboratories, Inc.

Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn 中国国家认证认可监督管理委员会

EN







Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBµ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµ V)	Comment
0.154500	54.5	1000.00	9.000	On	L1	9.5	11.3	65.8	
0.447000	39.5	1000.00	9.000	On	L1	9.5	17.4	56.9	
0.816000	34.9	1000.00	9.000	On	L1	9.5	21.1	56.0	

Final Measurement Detector 2

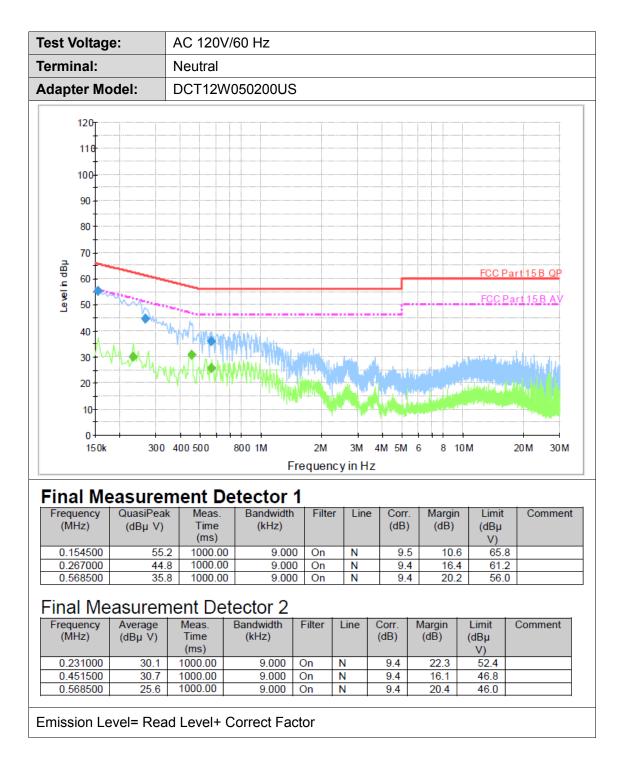
Frequency (MHz)	Average (dBµ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµ V)	Comment
0.172500	33.0	1000.00	9.000	On	L1	9.5	21.8	54.8	
0.447000	29.6	1000.00	9.000	On	L1	9.5	17.3	46.9	
0.564000	26.1	1000.00	9.000	On	L1	9.5	19.9	46.0	

Emission Level= Read Level+ Correct Factor

CTC Laboratories, Inc.

Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn For anti-fake verification, please visit the official website of Certification and 可监督管理委员会 中国国家认证认 EN





CTC Laboratories, Inc.

Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 中国国家认证认可监督管理委员会

EN

Http://www.sz-ctc.org.cn For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : yz.cnca.cn



3.2. Radiated Emission

<u>Limit</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.209/ RSS – Gen 8.9:

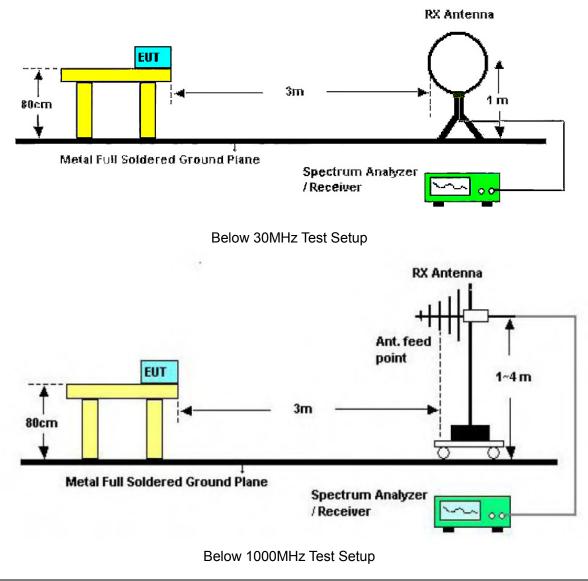
Frequency	Limit (dBuV/m @3m)	Value
30 MHz ~ 88 MHz	40.00	Quasi-peak
88 MHz ~ 216 MHz	43.50	Quasi-peak
216 MHz ~ 960 MHz	46.00	Quasi-peak
960 MHz ~ 1 GHz	54.00	Quasi-peak
Above 1 GHz	54.00	Average
	74.00	Peak

Note:

(1) The tighter limit applies at the band edges.

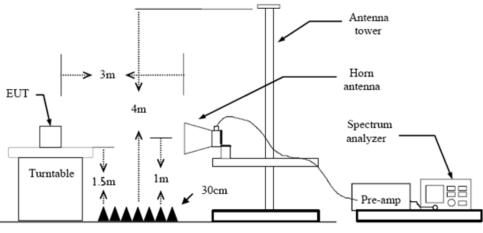
(2) Emission Level (dBuV/m)=20log Emission Level (uV/m).

Test Configuration



CTC Laboratories, Inc.





Above 1GHz Test Setup

Test Procedure

1. The EUT was setup and tested according to ANSI C63.10:2013

2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.

3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.

4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.

5. Set to the maximum power setting and enable the EUT transmit continuously.

6. Use the following spectrum analyzer settings

(1) Span shall wide enough to fully capture the emission being measured

(2) Below 30 MHz:

9kHz – 150kHz, RBW=200Hz, VBW≥RBW, Sweep=auto, Detector function=peak, Trace=max hold; 150kHz – 30MHz, RBW=9kHz, VBW≥RBW, Sweep=auto, Detector function=peak, Trace=max hold; If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the guasi-peak detector and reported.

(3) 30 MHz - 1 GHz:

RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;

If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

(4) From 1 GHz to 10th harmonic:

RBW=1MHz, VBW=3MHz Peak detector for Peak value.

RBW=1MHz, VBW \geq 1/T Peak detector for Average value.

Note 1: For the 1/T& Duty Cycle please refer to clause 3.8 Duty Cycle.

Test Mode

Please refer to the clause 2.4.

Test Result

9 KHz~30 MHz

From 9 KHz to 30 MHz: Conclusion: PASS

Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

CTC Laboratories, Inc.

Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

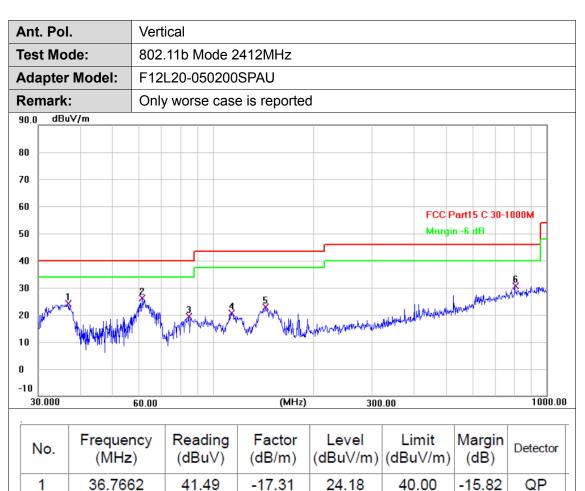


nt. Po	l .	Hori	zontal							
est Mo	de:	802.	802.11b Mode 2412MHz							
dapter	Model:	F12L20-050200SPAU								
emark		Only	/ worse ca	se is reported	k					
0.0 dB	uV/m									
0										
o										
0										
0							art15 C 30-1 n -6 dB	ооом П		
0								6		
0						4 5	shippen the	WARMER		
0		z			S. J. John Adm	When the philade of the	Hertwo			
o WAW	an had the state of the state o	hhi an the state of the state o	WWWWWWWWWWWWWW	when you	Managara	···				
-	•									
10										
30.000		60.00		(MHz)	300	.00		1000.		
No.	Freque (MHz	-	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector		
4	50.94	19	32.32	-15.89	16.43	40.00	-23.57	QP		
1	00.01									
1	60.91		32.92	-17.39	15.53	40.00	-24.47	QP		
		75	32.92 38.54	-17.39 -17.59		40.00 43.50	-24.47 -22.55	QP QP		
2	60.91	75 '50			15.53					
2	60.91 205.67	75 750 660	38.54	-17.59	15.53 20.95	43.50	-22.55	QP		
2 3 4	60.91 205.67 324.45	75 750 560 25	38.54 37.62	-17.59 -14.23	15.53 20.95 23.39	43.50 46.00	-22.55 -22.61	QP QP		

2.Margin value = Level -Limit value

CTC Laboratories, Inc.





2.Margin value = Level -Limit value

61.5618

84.7019

113.3163

143.8295

804.6028

43.51

40.32

38.92

44.17

35.88

-17.47

-20.99

-18.26

-21.34

-5.32

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

26.04

19.33

20.66

22.83

30.56

40.00

40.00

43.50

43.50

46.00

Accreditation Administration of the People's Republic of China : yz.cnca.cn

-13.96

-20.67

-22.84

-20.67

-15.44

QP

QP

QP

QP

QP

2 *

3

4

5

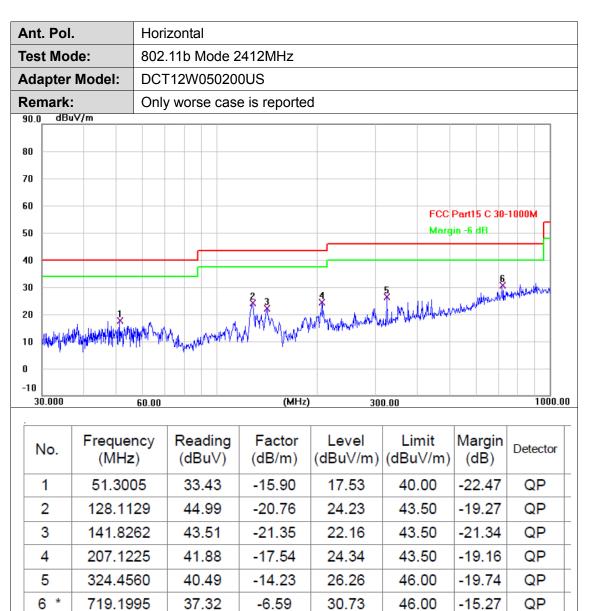
6

Remarks:

CTC Laboratories, Inc.

Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 中国国家认证认可监督管理委员会

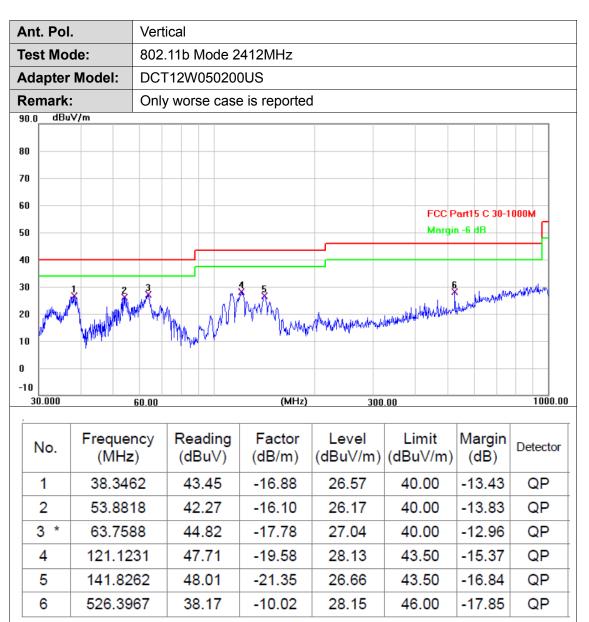




1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

CTC Laboratories, Inc.





1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

CTC Laboratories, Inc.

Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 中国国家认证认可监督管理委员会

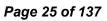


est Mode Remark:		No r												
00.0 dBuV/			eport for th			TX 802.11b Mode 2412MHz								
		pres	cribed limit		which more	re than 10 dB below the								
	'm	1	1	-										
30														
0														
0						FCC Part15	C - Above 10	G PK						
0														
0						FCC Part15	C - Above 10	3 AV						
0	ž													
0	1													
0	×													
0														
0.0														
1000.000 3	15UU.UU 6	000.00	8500.00 1	1000.00 (MHz)	16000.00 1	18500.00 21000	D.OO 23500.	00 26000.1						
No.	Frequer (MHz		Reading (dBu∀)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector						
1 *	4824.9	49	26.44	2.02	28.46	54.00	-25.54	AVG						
2	4824.9	80	37.37	2.02	39.39	74.00	-34.61	peak						

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

CTC Laboratories, Inc.

Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn For anti-fake verification, please visit the official website of Certification and EN

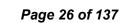




Ant. F	Pol.	Verti	cal					
lest N	Node:	TX 8	02.11b Mod	le 2412MHz	z			
Rema	ırk:		eport for the cribed limit.	emission v	vhich more t	han 10 dB	below the	9
100.0	dBuV/m							
90 -								
80 -						FCC Part15	0.411	
70						FCC Partis	C-ADUVE I	
60 -								
50						FCC Part15	C - Above 1	
40 -	Š							
30 -	1							
20								
10 -								
0.0	.000 3500.00	6000.00	8500.00 11	000.00 (MHz)	16000.00 1	8500.00 2100	0.00 23500	.00 26000.0
No	Freque		Reading (dBu∀)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	* 4823.9	989	26.44	2.02	28.46	54.00	-25.54	AVG
2	4824.0)57	37.61	2.02	39.63	74.00	-34.37	peak
Rema	rks:							

2.Margin value = Level -Limit value

CTC Laboratories, Inc.



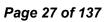


nt. Po	ol.	Hori	izontal					
est M	ode:	ТХ 8	802.11b Mo	de 2437MH	Z			
emar	k:		report for the scribed limit.		which more	than 10 dB	below the	Э
00.0 d	BuV/m							
。								
						FCC Part15	C - Above 1	G PK
0								
o								
						FCC Part15	C - Above 1	GAV
。	1							
	Ž							
0								
o								
0.0	00 3500.00	6000.00	8500.00 1	1000.00 (MHz)	16000.00	18500.00 2100	0.00 2350	0.00 26000
No.	Freque		Reading	Factor	Level	Limit	Margin	Detector
	(MHz	·	(dBuV)	(dB/m)	. ,	(dBuV/m)	(dB)	
1	4874.8		38.12	2.09	40.21	74.00	-33.79	peak
2 *	4874.8	96	26.76	2.09	28.85	54.00	-25.15	AVG

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

CTC Laboratories, Inc.

Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn For anti-fake verification, please visit the official website of Certification and 中国国家认证认可监督管理委员会 EN





Ant. P	ol.	Vertica	al					
Test M	lode:	TX 80	2.11b Mod	e 2437MHz	2			
Remai	rk:		port for the ribed limit.	emission w	which more t	han 10 dB l	pelow the)
100.0 d	BuV/m							
90								
80						FCC Part15	C - Above 1(3 PK
70								
60						FCC Part15	C - Above 1(
50								
40	×							
30	2							
20								
10								
0.0								
	100 3500.00 6	000.00	8500.00 110	000.00 (MHz)	16000.00 1	8500.00 21000	0.00 23500.	00 26000.0
No.	Frequer (MHz		Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4873.1	89	39.32	2.09	41.41	74.00	-32.59	peak
2 *	4874.9	42	26.55	2.09	28.64	54.00	-25.36	AVG

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

CTC Laboratories, Inc.

Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn Fax: (86)755-27521011 Http://www.sz-ctc.org.cn For anti-fake verification, please visit the official website of Certification and 中国国家认证认可监督管理委员会 EN



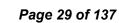
Ant	. Pol	•	Hori	zont	al								
Tes	t Mo	de:	TX 8	302.´	11b Mod	de 2462	ИНz	z					
Rer	nark	:			t for the d limit.		on v	vhich	more t	han 10 dB	below th	е	
100.) dBu	lV/m											
90													
80										FCC Part15	C - Ahove	16 PK	
70													
60							-			FCC Part15	C - Above	16 AV	
50							-				C ABOVE		
40		Š					-						
30		×					-						
20													
10							-						
0.0 10	00.000	3500.00	6000.00	850	10.00 11	000.00 (N	(Hz)	160	00.00 1	8500.00 2100	0.00 2350	0.00 260	00.a
1													
N	lo.	Freque (MHz			ading BuV)	Facto (dB/m			vel iV/m)	Limit (dBuV/m)	Margir (dB)	Detect	tor
1		4923.0		2	5.71	2.15		27	.86	54.00	-26.14	AVG	3
	2	4924.3	32	3	6.84	2.16		39	.00	74.00	-35.00	pea	k
Rer	narks	<u>.</u>											

Page 28 of 137

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

CTC Laboratories, Inc.

Room 101 Building B, No. 7, Langing 1st Road, Luhu Tel.: (86)755-27521059 下部 中国国家认证认可监督管理委员会 中国国家认证认可监督管理委员会 EN

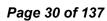




	I.	Vertio	cal						
est Mo	ode:	TX 8	02.11b Mo	de 2462MH:	Z				
Remark			eport for the cribed limit	e emission v	which more	han 10 dB l	below the	9	
00.0 dB	uV/m								
0									
0									
						FCC Part15	C - Above 1	g PK	
0									
0						FCC Part15	Part15 C - Above 1G AV		
0									
o	Ę.								
o 📃	1								
0	×								
0									
0.0									
1000.00	0 3500.00 6	000.00		1000.00 (MHz)	16000.00	8500.00 21000		.00 26000	
			D			1 2 24			
No.	Frequer (MHz		Reading (dBu∀)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
No. 1 *)						Detector AVG	

2.Margin value = Level -Limit value

CTC Laboratories, Inc.



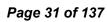


est Moc emark:		No re	02.11g Mod	de 2412MH				
			port for the		Infalls and a set of			
)0.0 dBu\		presc	, ribed limit.	5 6111351011 1	vnicn more i	than 10 dB t	pelow the	•
	//m							
I								
						FCC Part15 (C - Above 10	G PK
						FCC Part15	C - Above 10	G AV
	* *							
	ş							
.0								
1000.000	3500.00 6	000.00	8500.00 11	000.00 (MHz)	16000.00 1	8500.00 21000	0.00 23500	.00 26000
No.	Frequer (MHz	-	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4823.9	95	37.74	2.02	39.76	74.00	-34.24	peak
2 *	4824.1	73	26.34	2.02	28.36	54.00	-25.64	AVG

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

CTC Laboratories, Inc.

Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn Fax: (86)755-27521011 Http://www.sz-ctc.org.cn For anti-fake verification, please visit the official website of Certification and 中国国家认证认可监督管理委员会 EN





nt. Po	Ι.	Verti	cal					
est Mo	ode:	TX 8	02.11g Mod	le 2412MHz	2			
emark	(:		eport for the cribed limit.	emission v	which more t	han 10 dB t	pelow the	;
)0.0 dB	uV/m							
ı								
I						FCC Part15 (C - Above 1(3 PK
)						FCC Part15 (C - Above 10	AV C
) <u> </u>								
)	\$							
I	×							
)								
)).0								
	0 3500.00 6	000.00	8500.00 11	000.00 (MHz)	16000.00 1	8500.00 21000).00 23500	.00 26000
No.	Frequer (MHz		Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4823.3	40	26.37	2.02	28.39	54.00	-25.61	AVG
2	4824.2	13	37.88	2.02	39.90	74.00	-34.10	peak

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

CTC Laboratories, Inc.



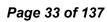


nt. Po	I.	Horiz	zontal					
est Mo	ode:	TX 8	02.11g Mod	le 2437MHz	2			
emar			eport for the cribed limit.	emission v	hich more t	han 10 dB b	pelow the	1
00.0 dB	uV/m							
,								
						FCC Part15 (C - Above 10	3 PK
·								
.								
						FCC Part15 (C - Above 10	<u>AV</u>
	1							
	*							
·	Š							
.								
.0								
	0 3500.00 6	000.00	8500.00 11	000.00 (MHz)	16000.00 1	8500.00 21000	.00 23500.	00 26000
No.	Freque (MHz		Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detecto
1	4874.3	95	37.73	2.09	39.82	74.00	-34.18	peak
2 *	4874.7	20	26.56	2.09	28.65	54.00	-25.35	AVG

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

CTC Laboratories, Inc.

Room 101 Building B, No. 7, Langing 1st Road, Luhu Tel.: (86)755-27521059 下部 中国国家认证认可监督管理委员会 中国国家认证认可监督管理委员会 EN





	l.	Verti	cal					
est Mo			02.11g Mod					
emark	:		eport for the cribed limit.	emission v	vhich more t	han 10 dB t	pelow the	;
)0.0 dBu	uV/m							
						FCC Part15	C - Above 1	G PK
I								
						FCC Part15	C - Above 1	GAV
	ş							
	×	_						
.0	0 3500.00 6	000.00	8500.00 11	000.00 (MHz)	16000.00 1		0.00 23500	.00 26000
				000.00 (MHz)				
	Freque		Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
No.	(MHz	.,	· · ·					
No.	(MHz 4873.6		26.57	2.09	28.66	54.00	-25.34	AVG

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

CTC Laboratories, Inc.

Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn 中国国家认证认可监督管理委员会 For anti-fake verification, please visit the official website of Certification and 中国国家认证认可监督管理委员会 EN



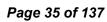
nt. Po	Ι.	Horiz	ontal					
est Mo	de:	TX 8	02.11g Mod	le 2462MHz	2			
emark			eport for the cribed limit.	emission w	hich more t	han 10 dB b	elow the	1
10.0 dBu	iV/m							
						FCC Part15 C	- Above 10	i PK
·		_						
·						500 D		
						FCC Part15 C	- Above TC	
	1							
	Š							
·								
I								
.0) 3500.00 6	000.00	8500.00 110)00.00 (MHz)	16000.00 1	8500.00 21000	.00 23500.	00 26000.
No.	Freque (MHz		Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4924.2	33	37.35	2.16	39.51	74.00	-34.49	peak
2 *	4924.7	49	25.89	2.16	28.05	54.00	-25.95	AVG

Page 34 of 137

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

CTC Laboratories, Inc.

Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn For anti-fake verification, please visit the official website of Certification and 中国国家认证认可监督管理委员会 EN





nt. Po	l.	Verti	cal					
est Mo	ode:	TX 8	02.11g Moc	le 2462MH:	Z			
emarl	(:		eport for the cribed limit.	emission v	which more	than 10 dB l	below the	9
)0.0 dE	luV/m							
I								
·						FCC Part15	C - Above 1	G PK
)						FCC Part15	C - Above 1	GAV
)	×							
·	ş							
)								
).0 1000.00	0 3500.00 6	000.00	8500.00 11	000.00 (MHz)	16000.00	18500.00 2100	0.00 23500	.00 26000
No.	Frequer (MHz		Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4924.7	64	36.66	2.16	38.82	74.00	-35.18	peak
2 *	4924.8	49	25.62	2.16	27.78	54.00	-26.22	AVG

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

CTC Laboratories, Inc.

Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn For anti-fake verification, please visit the official website of Certification and 中国国家认证认可监督管理委员会 EN

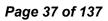


	I.	Horiz	zontal					
lest Mo	de:	TX 8	02.11n(HT2	20) Mode 24	412MHz			
Remark	(:		eport for the cribed limit.	emission v	which more	han 10 dB l	pelow the	;
100. <u>0</u> dB	uV/m							
90								
80								
70						FCC Part15	C - Above 1	G PK
60						FCC Part15	C - Above 1	G AV
50								
40	ŝ							
30	*							
20								
10								
0.0	0 3500.00 6	000.00	8500.00 11	000.00 (MHz)	16000.00	18500.00 2100	0.00 23500	.00 26000
No.	Frequer (MHz		Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
No.)						Detector

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

CTC Laboratories, Inc.

Room 101 Building B, No. 7, Langing 1st Road, Luhu Tel.: (86)755-27521059 中国国家认证认可监督管理委员会 For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : <u>yz.cnca.cn</u>





nt. F	Pol.		Verti	ical								
est l	Moc	le:	ТХ 8	302.´	11n(HT2	20) Mode	24	12MI	Ηz			
ema					rt for the ed limit.	e emissio	n v	vhich	more t	han 10 dE	3 below th	е
0.0	dBu∖	//m				[
										FCC Part	5 C - Above 1	G PK
										ECC Part	5 C - Above 1	GAV
											C ANDAC	
		1	_									
		ž										
		8										
-			_									
.0	000	3500.00 6	000.00	850	0.00 11	000.00 (M	Hz)	160	00.00 1	8500.00 21	000.00 2350	D.00 26000
No).	Frequer (MHz			ading BuV)	Facto (dB/m			evel iV/m)	Limit (dBuV/n	Margin	Detector
1	-	4824.1	, 74	3	7.22	2.02	-	. 39	.24	74.00	-34.76	peak
2	*	4824.3			6.61	2.02			.63	54.00	-25.37	-
	[I				1				1

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

CTC Laboratories, Inc.

Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn Fax: (86)755-27521011 Http://www.sz-ctc.org.cn For anti-fake verification, please visit the official website of Certification and 中国国家认证认可监督管理委员会 EN



Ant	. Pol		Hori	zont	al								
Tes	t Mo	de:	ТХ 8	302. ⁻	11n(HT2	20) Mode	24	37M	Ηz				
Rer	nark:		No r pres	epoi cribe	rt for the ed limit.	emissio	n w	vhich	more t	han 10 dB t	pelow the	;	
100.	0 dBu	V/m					_						-
90													
80										FCC Part15	C - Above 1	G PK	
70													
60										FCC Part15	C - Above 1	G AV	
50													
40		Š											
30		×											
20													
10													
0.0	100 000	3500.00	6000.00	850	0.00 11	000.00 (M	Hz)	160	00.00 1	8500.00 21000	0.00 23500	00 260	00.0
Ν	1 0.	Freque (MH:			ading BuV)	Facto (dB/m			vel iV/m)	Limit (dBuV/m)	Margin (dB)	Detect	tor
1	1 *	4873.9	962	2	6.73	2.09		28	.82	54.00	-25.18	AVG	3
	2	4874.	577	3	7.74	2.09		39	.83	74.00	-34.17	peal	k
Rer	narks												

Page 38 of 137

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

CTC Laboratories, Inc.

Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn For anti-fake verification, please visit the official website of Certification and 国家认证认可监督管理委员会 中国 EN





nt. Po	I.	Verti	cal					
est Mo	de:	TX 8	02.11n(HT2	0) Mode 24	37MHz			
emark			eport for the cribed limit.	emission w	vhich more t	han 10 dB t	pelow the	;
0.0 dBu	ıV/m							
						FCC Part15 (C-Above 10	G PK
						FCC Part15 (C-Above 10	GAV
	2							
	Š							
	×							
.0								
) 3500.00 6	000.00	8500.00 110	000.00 (MHz)	16000.00 1	8500.00 21000	.00 23500	.00 26000
No.	Freque (MHz		Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detecto
1 *	4873.6	09	26.59	2.09	28.68	54.00	-25.32	AVG
2	4873.7	55	38.07	2.09	40.16	74.00	-33.84	peak

CTC Laboratories, Inc.

Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn Fax: (86)755-27521011 Http://www.sz-ctc.org.cn For anti-fake verification, please visit the official website of Certification and 中国国家认证认可监督管理委员会 EN



Ant	t. Pol		Horiz	contal					
Tes	st Mo	de:	TX 8	02.11n(HT2	20) Mode 24	162MHz			
Rei	mark	•		eport for the cribed limit.		vhich more	than 10 dB l	below the	9
100.	0 dBu	V/m							
90									
80							FCC Part15	C - Above 1	G PK
70									
60									
50							FCC Part15	C - Above 1	GAV
40		ş							
30		×							
20									
10									
0.0	00 000	3500.00 6	000.00	8500.00 11	000.00 (MHz)	16000.00	8500.00 2100	0.00 23500	.00 26000.0
		0000.00 0	000.00	0000.00	000.00 (11112)	10000.00	10000.00 2100	0.00 20000	
						1		I	
Ν	۱o.	Frequer (MHz	-	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
-	1 *	4923.0	36	25.64	2.15	27.79	54.00	-26.21	AVG
	2	4924.8	61	37.29	2.16	39.45	74.00	-34.55	peak
									i
Rer	marks	S:	_						

Page 40 of 137

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

CTC Laboratories, Inc.

Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn Fax: (86)755-27521011 Http://www.sz-ctc.org.cn For anti-fake verification, please visit the official website of Certification and 中国国家认证认可监督管理委员会 EN



Ant	Pol.		Verti									
								0014				
	t Moo nark:				•	20) Moo					h a law the	
Ren	iark:				ed limit.		ION V	men	more t	han 10 dB		;
100.0	dBu	√/m	p									
90												
80										FCC Part1	5 C - Above 1	G PK
70												
60												
50							_			FCC Part1	5 C - Above 1	GAV
40		1										
30		2										
20		^										
10												
0.0												
100	00.000	3500.00 6	00.00	850	0.00 11	000.00	(MHz)	160	00.00 1	8500.00 210	00.00 23500	.00 26000.0
1												
N	o.	Frequer (MHz			ading BuV)	Fac (dB/i			vel iV/m)	Limit (dBuV/m) Margin (dB)	Detector
1		4923.8	79	3	6.35	2.1	6	38	.51	74.00	-35.49	peak
2	*	4924.94	41	2	5.67	2.1	6	27	.83	54.00	-26.17	AVG

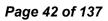
Page 41 of 137

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

CTC Laboratories, Inc.

Room 101 Building B, No. 7, Langing 1st Road, Luhu Tel.: (86)755-27521059 下部 中国国家认证认可监督管理委员会 中国国家认证认可监督管理委员会 EN



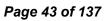


	I.	Horizo	ntal					
est Mo	ode:	TX 802	2.11n(HT₄	10) Mode 2	422MHz			
Remark	:		ort for the	e emission	which more	than 10 dB	below the	e
00.0 dBi	uV/m	·						
0								
						FCC Part15	C - Above 1	G PK
0								
0						FCC Part15	C - Ahove 1	GAV
0								
0	1×							
0	ž							
	×							
0								
0								
	0 3500.00 6	000.00 8	3500.00 11	000.00 (MHz)	16000.00		0.00 23500	.00 26000.
No.	Frequer (MHz		Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	4843.2	19	37.98	2.04	40.02	74.00	-33.98	peak
1	4040.2				28.88	54.00	-25.12	AVG

1.Factor (dB/m) = 2.Margin value = Level -Limit value

CTC Laboratories, Inc.

Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Tel.: (86)755-27521059 下部 中国国家认证认可监督管理委员会 中国国家认证认可监督管理委员会 EN



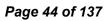


nt.	Pol.		Verti	ical									
est	Мос	le:	ТХ 8	302.1	11n(HT	40) Mc	de 24	22M	Hz				
Rem	ark:				rt for th ed limit		sion v	vhich	more	than 10) dB l	below the	9
00.0	dBu\	//m											
										FCC F	Part15	C - Above 1	G PK
۱ŀ													
⊢							_						
										FCCF	art15	C - Above 1	GAV
		1×											
ן י													
나		Š											
ı -													
).0													
100	0.000	3500.00 6	000.00	850	0.00 1	1000.00	(MHz)	160	00.00 1	8500.00	2100	0.00 23500	.00 26000
N	0.	Freque (MHz	-		ading BuV)	Fac (dB	ctor /m)		evel ıV/m)	Lim (dBu\		Margin (dB)	Detector
1		4843.8	39	3	8.58	2.0	05	40	.63	74.(00	-33.37	peak
2	*	4844.9	95	2	6.95	2.0	05	29	.00	54.0	00	-25.00	AVG
2		4044.3	30		0.00	2.0	55	28		04.0		-20.00	

2.Margin value = Level -Limit value

CTC Laboratories, Inc.

Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Tel.: (86)755-27521059 下部 中国国家认证认可监督管理委员会 中国国家认证认可监督管理委员会 EN

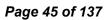




Ant.	Pol.		Horiz	zonta	al								
Fest	Мос	de:	TX 8	02.1	1n(HT4	0) Mod	e 24	37MI	Ηz				
Rem	nark:				t for the d limit.	e emissio	on v	vhich	more t	han 10	dB l	pelow th	е
100.0	dBu\	//m											
90													
30 -										FCC P	art15 (C - Above 1	IG PK
'0 -							-						
io -										Ecc D		C-Above 1	
io												S-ADUVE	
10		ş											
80 -		×								_			
20 -													
10 -													
0.0		3500.00 6	000.00	850		000.00 (N	(Hz)		100.00 1	8500.00	21000).00 2350	0.00 26000
N	o.	Frequer (MHz	- 1		ading BuV)	Facto (dB/n			evel uV/m)	Lim (dBu∖		Margir (dB)	Detector
1	*	4873.0	08	26	6.82	2.09		28	. <mark>91</mark>	54.0	0	-25.09	AVG
2	2	4874.6	91	38	3.00	2.09		40	.09	74.0	0	-33.91	peak

CTC Laboratories, Inc.

Room 101 Building B, No. 7, Langing 1st Road, Luhu Tel.: (86)755-27521059 中国国家认证认可监督管理委员会 Geretitation Administration of the People's Republic of China : <u>yz.cnca.cn</u>





	Verti	cal					
de:	TX 8	02.11n(HT4	10) Mode 24	137MHz			
:			emission v	which more t	han 10 dB t	pelow the	;
V/m							
					FCC Part15	C - Above 1	G PK
					ECC Part15	C - Above 1	GAV
ž.							
1							
×							
3500.00 6	000.00	8500.00 11	000.00 (MHz)	16000.00	18500.00 2100	0.00 23500	.00 26000.
		Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
4873.7	24	26.80	2.09	28.89	54.00	-25.11	AVG
4874.5	04	37.89	2.09	39.98	74.00	-34.02	peak
	3500.00 6 Frequer (MHz	X/m V/m k k k k k	No report for the prescribed limit.	No report for the emission v v/m v/m k <	No report for the emission which more to prescribed limit. V/m V/m Image: state sta	No report for the emission which more than 10 dB to prescribed limit. V/m FCC Part15 Image: Second state sta	No report for the emission which more than 10 dB below the prescribed limit. V/m FCC Part15 C - Above 11 Image: State of the emission which more than 10 dB below the prescribed limit. FCC Part15 C - Above 11 Image: State of the emission which more than 10 dB below the prescribed limit. FCC Part15 C - Above 11 Image: State of the emission which more than 10 dB below the prescribed limit. FCC Part15 C - Above 11 Image: State of the emission which more than 10 dB below the prescribed limit. FCC Part15 C - Above 11 Image: State of the emission which more than 10 dB below the prescribed limit. FCC Part15 C - Above 11 Image: State of the emission which more than 10 dB below the prescribed limit. FCC Part15 C - Above 11 Image: State of the emission which more than 10 dB below the prescribed limit. FCC Part15 C - Above 11 Image: State of the emission which more than 10 dB below the emission which more than 10 dB bel

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

CTC Laboratories, Inc.

Room 101 Building B, No. 7, Langing 1st Road, Luhu Tel.: (86)755-27521059 下部 中国国家认证认可监督管理委员会 中国国家认证认可监督管理委员会 EN



Ant	. Pol		Hori	zonta	al									
Tes	t Mo	de:	TX 8	302.1	l1n(HT4	10) Mod	e 24	452MF	Ηz					
Rer	nark	:			t for the ed limit.		on ۱	which	more	than 10	dB	below the	e	
100.) dBu	V/m												
90											_			
80							_			FCC P	art15	C - Above 1	G PK	
70														
60														
50										FCC P	art15	C - Above 1	GAV	
40														
30		1 X												
20		^												
10														
0.0														
10	00.000	3500.00 6	000.00	850	0.00 11	000.00 (MHz)	160	00.00	18500.00	2100	0.00 2350).00 260	00.0
<u> </u>														
N	lo.	Frequer (MHz			ading BuV)	Facto (dB/n			vel V/m)	Limi (dBuV/		Margin (dB)	Detecto	or
1	*	4903.2	79	26	6.35	2.12	2	28	.47	54.0	0	-25.53	AVG	i
	2	4903.6	93	37	7.01	2.13	}	39	.14	74.0	0	-34.86	peak	(

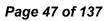
Page 46 of 137

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

CTC Laboratories, Inc.

Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn For anti-fake verification, please visit the official website of Certification and 中国国家认证认可监督管理委员会 EN





nt. Pol	•	Verti	cal					
st Mo	de:	TX 8	02.11n(HT4	0) Mode 24	52MHz			
emark			eport for the cribed limit.	emission v	which more	than 10 dB	below the	Э
0.0 dBu'	V/m							
						FCC Part15	C - Above 1	G PK
						FCC Part15	C - Above 1	G AV
	ş							
	×							
	×							
.0								
1000.000	3500.00 6	000.00	8500.00 11	000.00 (MHz)	16000.00	18500.00 2100	0.00 23500	0.00 26000
No.	Freque (MH;		Reading (dBuV)	Factor (dB/m)	Level	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4903.0	·	26.28	2.12	28.40	54.00	-25.60	AVG
2	4903.1		37.70	2.12	39.82	74.00	-34.18	peak

CTC Laboratories, Inc.

Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn Fax: (86)755-27521011 Http://www.sz-ctc.org.cn For anti-fake verification, please visit the official website of Certification and 中国国家认证认可监督管理委员会 EN



Ant	t. Pol		Horiz	zontal						
Tes	t Mo	de:	TX 8	02.11ax(HI	E20) Mode	2412MHz				
Rei	nark			eport for the cribed limit.		which more	than 10 dB	below the	Э	
100.	0 dBu	V/m								
90										
80			_				FCC Part15	C - Above 1	G PK	
70								C-ADOVE I		
60										
50							FCC Part15	C - Above 1	G AV	
40		ş								
30										
20		×								
10										
0.0										
10)00.000	3500.00 6	000.00	8500.00 1	1000.00 (MHz)	16000.00	18500.00 2100	10.00 23501	0.00 26000.0	۵
N	lo.	Frequer (MHz		Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
1	*	4823.6	74	26.33	2.02	28.35	54.00	-25.65	AVG	_
	2	4823.8	47	37.48	2.02	39.50	74.00	-34.50	peak	
										-
D										

Page 48 of 137

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

CTC Laboratories, Inc.

Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn Fax: (86)755-27521011 Http://www.sz-ctc.org.cn For anti-fake verification, please visit the official website of Certification and 中国国家认证认可监督管理委员会 EN



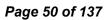
nt. Po	ol.	Vert	/ertical									
est Mo	ode:				E20) Moo							
lemarl	k :		No report for the emission which more than 10 dB below the prescribed limit.									
00.0 dE	3uV/m											
0												
0									FCC Part15	C - Above 1	IG PK	
0												
o 📃												
0									FCC Part15	C - Above 1	GAV	
	1											
0												
0	Ş					-						
o						_						
0												
0.0												
1000.00	00 3500.00	6000.00	8500.	00 11	1000.00 (N	Hz)	160	00.00	18500.00 210	0.00 2350	0.00 260	00
No.	Frequ	ency	Read	ding	Facto	r	Le	vel	Limit	Margin	Detecto	
	(MH	· · ·	(dBı	<u> </u>	(dB/m)			(dBuV/m)		Delecto	זכ
1	4823	593	37.	61	2.02		39	.63	74.00	-34.37	peak	(
2 *	4824	653	26.	35	2.02		28	.37	54.00	-25.63	AVG	1

Page 49 of 137

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

CTC Laboratories, Inc.

Room 101 Building B, No. 7, Langing 1st Road, Luhu Tel.: (86)755-27521059 下部 中国国家认证认可监督管理委员会 中国国家认证认可监督管理委员会 EN





Ant. Po	ol.	Horiz	zontal					
est M	ode:	TX 8	02.11ax(HE	20) Mode 2	2437MHz			
Remar	k:		eport for the cribed limit.	e emission v	which more	than 10 dB l	pelow the	9
00.0 dE	3uV/m							
o 📃								
						FCC Part15	C - Above 1	G PK
0								
)								
, 🗖					FCC Part15	C - Above 10	GAV	
	*							
)								
)	Š							
)								
0.0								
1000.00	00 3500.00 6	000.00	8500.00 11	000.00 (MHz)	16000.00 1	8500.00 21000).00 23500 	.00 26000.
No.	Frequer (MHz		Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4874.0	84	37.58	2.09	39.67	74.00	-34.33	peak
2 *	4874.8	99	26.52	2.09	28.61	54.00	-25.39	AVG

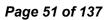
Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

CTC Laboratories, Inc.

Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn EN

For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : yz.cnca.cn

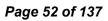




nt. Po	Ι.	Verti	ical									
est Mo			802.11ax(HE	,								
emark	(:		No report for the emission which more than 10 dB below the prescribed limit.									
)0.0 dBu	uV/m											
						FCC Part15	C - Above 1	G PK				
						FCC Part15	C - Above 1	GAV				
	Š											
	×											
.0												
1000.000	0 3500.00 6	000.00	8500.00 11	000.00 (MHz)	16000.00	18500.00 2100	0.00 23500	0.00 26000				
No.	Frequer (MHz	-	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector				
1 *	4873.4	<i>'</i>	26.67	2.09	28.76	54.00	-25.24	AVG				
2	4874.4	31	38.52	2.09	40.61	74.00	-33.39	peak				

CTC Laboratories, Inc.

Room 101 Building B, No. 7, Langing 1st Road, Luhu Tel.: (86)755-27521059 中国国家认证认可监督管理委员会 For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : <u>yz.cnca.cn</u>



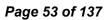


	Ι.	Horiz	ontal									
est Mo	de:	TX 80)2.11ax(HE	20) Mode 2	2462MHz							
emark			No report for the emission which more than 10 dB below the prescribed limit.									
00.0 dBu	JV/m											
0												
0												
						FCC Part15	C-Above 10	G PK				
0												
0						FCC Part15	C - Above 10	GAV				
0												
0	ş											
0	1 ×											
0	×											
D.0												
	0 3500.00 6	000.00	8500.00 110	000.00 (MHz)	16000.00 1	8500.00 21000	0.00 23500	.00 26000				
No.	Freque (MHz	-	Reading (dBu∀)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector				
4 +	4924.5	35	25.70	2.16	27.86	54.00	-26.14	AVG				
1 *	4924.8	00	36.88	2.16	39.04	74.00	-34.96	peak				

2.Margin value = Level -Limit value

CTC Laboratories, Inc.

Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Tel.: (86)755-27521059 下部 中国国家认证认可监督管理委员会 中国国家认证认可监督管理委员会 EN

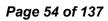




nt. Po	I.	Vertica	al					
est Mo	de:	TX 80	2.11ax(HE	20) Mode 2	2462MHz			
emark			port for the ribed limit.	emission v	vhich more	than 10 dB l	below the	;
10.0 dBi	uV/m							
						FCC Part15	C - Above 1	G PK
						FCC Part15	C - Ahove 1	GAV
	ş							
	×							
.0	0 3500.00 6	000.00	8500.00 11	000.00 (MHz)	16000.00	18500.00 2100	0.00 23500	.00 26000
No.	Frequer (MHz	-	Reading (dBuV)	Factor (dB/m)		Limit (dBuV/m)	Margin (dB)	Detector
1 *	4924.0	·	25.77	2.16	27.93	54.00	-26.07	AVG
1	4924.0		37.17	2.16	39.33	74.00	-20.07	peak
2	4324.3	JI	57.17	2.10	39.33	14.00	-04.07	peak

CTC Laboratories, Inc.

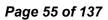
Room 101 Building B, No. 7, Langing 1st Road, Luhu Tel.: (86)755-27521059 下部 中国国家认证认可监督管理委员会 中国国家认证认可监督管理委员会 EN





Int. F	Pol.		Hor	izont	al							
'est N	Mode:		TX	802.	11ax(H	E40) Mo	ode 2	24221	ИНz			
Rema	ark:				rt for th ed limit		ion v	which	more	han 10 dB	below the	9
100.0	dBuV/m	1										
										FCC Part15	C - Above 10	Э РК
0 -							_					
o												
0							_			FCC Part15	C - Above TC	
0		ş										
0		×					_					
0 -							_					
o												
0.0	0.000 35	00.00 0	000.00	00	0.00 1	1000.00	(MHz)	16	000.00 1	8500.00 21000	0.00 23500.	00 26000.0
No.	. Fi	requer (MHz			ading BuV)	Fac (dB/			evel	Limit (dBuV/m)	Margin (dB)	Detector
1 '	* 4	843.1	·	<u> </u>	6.79	2.0	,		3.83	54.00	-25.17	AVG
		843.3			8.18	2.0).22	74.00	-33.78	peak
2		040.0			0.10	2.0	-		1.22	74.00	-33.78	pear

CTC Laboratories, Inc.





nt. Po	ol.	Verti	ertical									
est Mo	ode:	TX 8	302.11ax(H	E40) Mode	2422MHz							
emarl	K :		No report for the emission which more than 10 dB below the prescribed limit.									
0.0 dB	iuV/m				1							
						FCC Part15	C - Above 1	G PK				
							0.41	<u> </u>				
						FCC Part15	C-Above I	GAV				
	Ę											
	*											
.00	0 3500.00 6	000.00	8500.00 1	1000.00 (MHz)	16000.00	18500.00 2100	0.00 23500	.00 26000				
No.	Frequer		Reading	Factor	Level	Limit	Margin	Detector				
	(MHz	·	(dBuV)	(dB/m)	. ,	(dBuV/m)	· · /					
1 *	4843.0		27.01	2.04	29.05	54.00	-24.95	AVG				
2	4844.2	39	38.42	2.05	40.47	74.00	-33.53	peak				

CTC Laboratories, Inc.



Ant	. Pol		Hori	Horizontal									
	t Mo					E40) Mo	de 2	2437M	Hz				
	nark		No r	eport	•	e emissi				han 10 d	B below the	9	
100.	0 dBu	V/m											
90													
80										FCC Part	15 C - Above 1	G PK	
70													
60										ECC Ded	15 C - Above 1	CAY	
50											IS C - ADOVE I		
40		ş											
30		ł											
20													
10													
0.0	100 000	3500.00 6	000.00	8500	00 11	1000.00 (MHz)	160	00.00	8500.00 21	000.00 23500	.00 26000.0	
							,	1					
N	lo.	Frequer (MHz			ding uV)	Fact (dB/n	-	Le (dBu		Limit (dBuV/n	Margin (dB)	Detector	
1	*	4873.2	33	26	.73	2.09)	28.	.82	54.00	-25.18	AVG	
2	2	4873.3	88	37	.61	2.09)	39.	70	74.00	-34.30	peak	
												<u>.</u>	

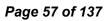
Page 56 of 137

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

CTC Laboratories, Inc.

Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn 中国国家认证认可监督管理委员会 For anti-fake verification, please visit the official website of Certification and 中国国家认证认可监督管理委员会 EN





nt. Po	l.	Verti	cal					
est Mo	de:	TX 8	02.11ax(HE	40) Mode 2	2437MHz			
emark			eport for the cribed limit.	emission v	which more t	han 10 dB l	pelow the	9
)0.0 dBu	uV/m							
, 📖								
			FCC Part15 C		C - Above 1	G PK		
						FCC Part15	C - Above 1	GAV
	1×							
	2							
	~							
.0 1000.000	0 3500.00 6	000.00	8500.00 11	000.00 (MHz)	16000.00 1	8500.00 21000	0.00 23500	.00 26000.
No.	Frequer (MHz		Reading (dBuV)	Factor (dB/m)	Level (dBu\//m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4874.6		39.04	2.09	41.13	74.00	-32.87	peak
2 *	4874.7		26.67	2.09	28.76	54.00	-25.24	AVG
-				2.00				

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

CTC Laboratories, Inc.

Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn 中国国家认证认可监督管理委员会 For anti-fake verification, please visit the official website of Certification and 中国国家认证认可监督管理委员会 EN



Ant	t. Pol	•	Hori	Horizontal									
Tes	t Mo	de:	TX 8	302.1	1ax(HE	E40) M	ode 2	24521	ИНz				
Rei	nark	:		No report for the emission which more than 10 dB below the prescribed limit.									
100.	0 dBu	V/m											
90													
80													
70										FCC Pa	rt15 (C-Above 1	G PK
60										FCC Pa	rt15 (C-Above 1	G AV
50													
40		*					_						
30		Š									_		
20							_						
10													
0.0	00.000	3500.00 6	000.00	850(0.00 11	000.00	<u> </u>	10	00.00 1	0500.00	01000	00 00500	0.000.00
	100.000	3500.00 6	00.00	8501	0.00 11	000.00	(MHz)	161)00.00 1	8500.00	21000	.00 23500	.00 26000.0
N	lo.	Frequer (MHz			ading BuV)	Fac (dB/			evel uV/m)	Limi (dBuV		Margin (dB)	Detector
	1	4903.7	19	38	3.04	2.1	3	40).17	74.0	0	-33.83	peak
2	2 *	4903.7	87	26	6.55	2.1	3	28	8.68	54.0	0	-25.32	AVG
			1										·
_													

Page 58 of 137

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

CTC Laboratories, Inc.

Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn Fax: (86)755-27521011 Http://www.sz-ctc.org.cn For anti-fake verification, please visit the official website of Certification and EN



Ant	. Pol	•	Verti	Vertical									
Tes	t Mo	de:	TX 8	02.1	11ax(HE	E40) Mo	de 2	2452N	lHz				
	nark				t for the	e emissi	on v	which	more	than 10 dE	3 below th	е	
100.	0 dBu	V/m	p										
90													
80										FCC Part	5 C - Above	IG PK	
70							-						
60										FCC Part	5 C - Above	IG AV	
50													
40		Š											
30		×					-						
20							-						
10 0.0							-						
)00.000	3500.00 6	000.00	850	0.00 11	000.00 (1	MHz)	160	00.00	18500.00 21	000.00 2350	0.00 260	00.0
1								1				1	
Ν	lo.	Frequer (MHz			ading BuV)	Facto (dB/n			vel V/m)	Limit (dBuV/m	Margin (dB)	Detect	or
	1 *	4903.3			6.37	2.13			.50	54.00	-25.50	AVG	;
	2	4904.2	60	38	8.09	2.13	}	40	.22	74.00	-33.78	peak	(
Rer	narks	6:											

Page 59 of 137

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

CTC Laboratories, Inc.

Room 101 Building B, No. 7, Langing 1st Road, Luhu Tel.: (86)755-27521059 下部 中国国家认证认可监督管理委员会 中国国家认证认可监督管理委员会 EN



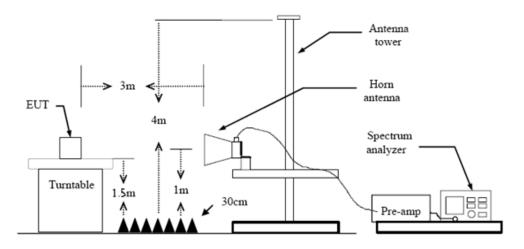
3.3. Band Edge Emissions (Radiated)

<u>Limit</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d)/ RSS 247 5.5:

Restricted Frequency Band	(dBuV/m	n)(at 3m)
(MHz)	Peak	Average
2310 ~2390	74	54
2483.5 ~2500	74	54

Test Configuration



Test Procedure

- 1. The EUT was setup and tested according to ANSI C63.10:2013 requirements.
- 2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
- 4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.
- 5. The receiver set as follow:
 - RBW=1MHz, VBW=3MHz Peak detector for Peak value.

RBW=1MHz, VBW see note 1 with Peak Detector for Average Value.

Note 1: For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 3.8 Duty Cycle.

Test Mode

Please refer to the clause 2.4.

Test Results

CTC Laboratories, Inc.



nt. Po	I.	Hori	zontal									
est Mo	ode:	802.	11b M	ode 2	412M	Hz						
20.0 dBu	iV/m											
10												
00											m	
											N	h
									FCC Part	15C 3M	/ Above-1G Pea	ak
												\neg
)								ļ	3 FCC Part	150 SM /	Nove-16 AV	
)									4			ť
ı												
)												
0.0 2305.200	2317.20	2329.20	2341.20	0 22	53.20	(MHz)	227	7.20 2	2389.20	2401.3	20 2413.	20 2425.
No.	Freque (MH		Read (dBi			ctor 3/m)		evel iV/m)	Lir (dBu		Margin (dB)	Detecto
No. 1		z)		uV)	(dB		(dBu		(dBu			Delecto
	(MH	z) 300	(dBi	uV) 77	(dB 31	8/m)	(dBu 58	ıV/m)	(dBu 74	V/m)	(dB)	Delecto
1	(MH 2386.3	z) 300 305	(dBi 27.	u∨) 77 93	(dB 31 31	8/m) .06	(dBu 58 48	ıV/m) .83	(dBu 74 54	V/m) .00	(dB) -15.17	peak AVG

Remarks:

EN

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

CTC Laboratories, Inc. Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn Fax: (86)755-27521011 Http://www.sz-ctc.org.cn For anti-fake verification, please visit the official website of Certification and 中国国家认证认可监督管理委员会 Accreditation Administration of the People's Republic of China : yz.cnca.cn



Ant. Po	Ι.	Verti	cal								
Fest Mo	de:	802.	11b N	Aode 2	412MHz	2					
20.0 dBu	V/m										
10											
00											
00										N	7.
0									FCC Part 15C 3	M Aboxe-1G Pea	ak
70										1	
50									FCC¥art 15C 3	M Above-1G AV	\
50									2	J	
0											
30											
20.0 2304.000	2316.00 2	328.00	2340.	.00 23	52.00 (M	IHz)	237	6.00	2388.00 24	00.00 2412.	00 2424.
	Frogues	2014	Pee	ading	Facto			vel	Limit	Margin	
No.	Frequer (MHz			ading BuV)	(dB/m			vei V/m)			Detector
1	2390.0	00	25	.37	31.08	3	56	.45	74.00	-17.55	peak
2 *	2390.0	00	16	.34	31.08	3	47	.42	54.00	-6.58	AVG
	s: r (dB/m) = / n value = L				lB/m)+C	abl	e Fac	tor (dE	3)-Pre-am	olifier Fact	or

Page 62 of 137



Ant. F	ol.		Hori	zontal					
lest N	/lode		802.	11b Mode	e 2462 MHz				
120.0	dBu¥/m								
110									
100 -		. m							
90	_/								
80	N								
	ſ.						FCC Part 15C 3M	Above-1G Pea	ak
70									
60			h	1 X			FCC Part 15C 3M	Above-1G AV	
50 📕			h	2	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				
40 -									
30									
20.0 2450.		62.00	2474.00	2486.00	2498.00 (MHz)	2522.00	2534.00 2546	.00 2558.	00 2570.0
No	. F	reque (MH:		Readin (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1		2483.5	500	27.03	31.43	58.46	74.00	-15.54	peak
2	*	2483.5	500	16.92	31.43	48.35	54.00	-5.65	AVG
									· ·

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

CTC Laboratories, Inc. Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Tel.: (86)755-27521059 中国国家认证认可监督管理委员会 CTC Laboratories, Inc. Fax: (86)755-27521011 Fax: (86)755-27521011 Fax: (86)755-27521011 For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : <u>yz.cnca.cn</u>

FCC Part 15C 3M Above-1G Peak



Ant. Pol. Test Mode: 120.0 dBuV/m

110 100 90

80

70

		Pag	e 64 of 1	37	Rep	00
	Vertical				 	
	802.11b	Mode 2	462 MHz	2		
m						
Ń						

,			1 X						ECC Pert	150 34	A.L	10.44		_
, –		h	2	*****			······		FCC Part	15L 3M	Above-			
)														
-														_
	2460.80	2472.80	2484.80	24	96.80 ((MHz)	252	0.80	2532.80	2544	.80	2556.8	80	2568.
2448.800	2460.80	2472.80	2484.80	24	96.80 ((MHz)	252	0.80	2532.80	2544	.80	2556.8	BO	2568.
0.0 2448.800 No.	Frequ	2472.80 uency Hz)	2484.80 Readi (dBu)	ing	96.80 (Fact (dB/r	tor	Le	vel	1	nit	Ма	2556.8 rgin IB)		2568. ecto

Remarks:

2 *

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

31.43

48.19

54.00

-5.81

AVG

16.76

2.Margin value = Level -Limit value

2483.500



nt. Po	-	Hori	zontal									
est Mo	de:	802.	11g Mod	e 24	12MHz							
120.0 dBu	i¥/m											
10												
00												
0												
									FCC Part	15C 3M	Above-1G Pea	ık
70									1 X			
50									FCC Part	15C 3M	Above-1G AV	
50								and the second designed to the second designed and the	www.k			
io												
30												
20.0	2314.80	2326.80	2338.80	235	0.80 (MI	[2]	237	4.80	2386.80	2398	.80 2410.5	80 2422.5
No.	Freque (MH		Readir (dBu√		Factor (dB/m)		Lev (dBu		Lin (dBu'		Margin (dB)	Detector
1	2390.	·	36.06		31.08	+	67.		74.		-6.86	peak
2 *	2390.		21.24		31.08	+	52.		54.		-1.68	AVG

CTC Laboratories, Inc. Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Tel.: (86)755-27521059 日目家认证认可监督管理委员会 CTC Laboratories, Inc. Fax: (86)755-27521011 Fax: (86)755-27521011 For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : <u>yz.cnca.cn</u>





nt. Po	I.	Vert	ical					
est Mo	ode:	802.	11g Mode 2	412MHz				
20.0 dBu	lV/m		-					
10								
00								
D							mh	3/2
D						FCC Part 15C 3M /	Above-1G Pea	k
)								
0						1 FCC Part 15C 3M /	bove-16 AV	-+
)						3 mm		t
)								
,								
D.O								
2304.000	2316.00	2328.00	2340.00 23	52.00 (MHz)	2376.00 2	2388.00 2400.	00 2412.0	0 2424.
No.	Freque (MH		Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detecto
No.		z)						Detecto peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

CTC Laboratories, Inc.

Room 101 Building B, No. 7, Langing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 百里国家认证认可监督管理委员会 Generation and Accreditation Administration of the People's Republic of China : <u>yz.cnca.cn</u>



\nt	. Pol	•	H	orizon	tal					
est	t Mo	de:	8	02.11g) Mode 2	2462MHz				
120.0) dBu'	v/m								
20.0	,	• • • •								
10										
00										
0	m	mar	η							
		, v								
0								FCC Part 15C 3M	Above-1G Pea	ak
0	+		+	×				FCC Part 15C 3M	Above-16 AV	
0	1		t	2						
0										
0.0										
24	50.000	2462.00	2474	.00 24	186.00 2	498.00 (MHz)	2522.00	2534.00 2546	.00 2558.	00 2570.0
N	lo.	Frequ (Mł			eading ∄BuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1	2483	.500	2	27.67	31.43	59.10	74.00	-14.90	peak
2	*	2483	.500	1	6.91	31.43	48.34	54.00	-5.66	AVG
										-

CTC Laboratories, Inc.



4	J.	Verti	cal					
est ivic	ode:	802.2	11g Mode 2	462MHz				
	ı¥/m							
0								
0								
	mpmm	1						
$\left \right $	- V	\				FCC Part 15C 3M /	Above-1G Pea	ık
			1					
			×			FCC Part 15C 3M	Above-1G AV	
			2					
.0 2447.600	2459.60 24	171.60	2483.60 24	95.60 (MHz)	2519.60	2531.60 2543.	60 2555.0	60 2567.0
	Frequer (MHz)		Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
No.	(101112)	/ I	(· · · · ·			1
No. 1	2483.50	·	27.42	31.43	58.85	74.00	-15.15	peak

Page 68 of 137

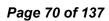
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

CTC Laboratories, Inc. Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Tel.: (86)755-27521059 日目家认证认可监督管理委员会 CTC Laboratories, Inc. Fax: (86)755-27521011 Fax: (86)755-27521011 For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : <u>yz.cnca.cn</u>



nt. Po) .	Hori	zontal					
est Mo		802.	11n(HT20) l	Mode 2412	MHz			
20.0 dB	uV/m							
10								
00							a	
o							N. N.	mon
o 📃								
0						FCC Part 15C 3M	Above-16 Pea	
						1 X		
0						FCC Part 150\3M	Above-1G AV	
0					mmmmm	monthand M		
o								
o 📃								
0.0								
No.	Freque (MH:	-	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.0	000	30.26	31.08	61.34	74.00	-12.66	peak
2 *	2390.0	000	19.10	31.08	50.18	54.00	-3.82	AVG

CTC Laboratories, Inc. Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Tel.: (86)755-27521059 中国国家认证认可监督管理委员会 CTC Laboratories, Inc. Fax: (86)755-27521011 Fax: (86)755-27521011 For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : <u>vz.cnca.cn</u>





nt. Po	I.	Vert	ical					
est Mo	de:	802	.11n(HT20)	Mode 2412	MHz			
20.0 dBu	W/m							
0								
·							Mar	mm
·						FCC Part 15C 3M	Above-16 Pe	ak
,						1		
						FCC Part 15C 3M	Above-1G AV	
								Ì
2304.000	2316.00	2328.00	2340.00	2352.00 (MHz)	2376.00	2388.00 2400	0.00 2412	.00 2424.
No.	Freque (MH	z)	Reading (dBuV)	Factor (dB/m)		Limit (dBuV/m)	Margin (dB)	Detector
1	2390.	000	25.96	31.08	57.04	74.00	-16.96	peak
2 *	2390.	000	17.21	31.08	48.29	54.00	-5.71	AVG

2.Margin value = Level -Limit value

EN

CTC Laboratories, Inc. Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Tel.: (86)755-27521059 下ax: (86)755-27521011 下or anti-fake verification, please visit the official website of Certification and 中国国家认证认可监督管理委员会 Accreditation Administration of the People's Republic of China : yz.cnca.cn



nt. Po	ol.	Hori	zontal					
est M	ode:	802.	11n(HT20)	Mode 2462	MHz			
20.0 dB	uV/m							
10								
,	mm	η						
,						FCC Part 15C 3M A	have 10 Baa	
, 🕇						FLC Fait 15C SM P	UUYE-TU Fea	<u> </u>
,			-1×					
, †		tur	2			FCC Part 15C 3M A	bove-1G AV	
)								
2450.00	0 2462.00	2474.00	2486.00 2	498.00 (MHz)	2522.00	2534.00 2546.0	00 2558.0	0 2570.0
No.	Frequ (MF		Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.	500	27.43	31.43	58.86	74.00	-15.14	peak
2 *	2483.	500	17.26	31.43	48.69	54.00	-5.31	AVG

CTC Laboratories, Inc. Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Tel.: (86)755-27521059 日目家认证认可监督管理委员会 CTC Laboratories, Inc. Fax: (86)755-27521011 Fax: (86)755-27521011 For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : <u>yz.cnca.cn</u>



Ant. Pol. Test Mode:		Vert	ical					
		802.11n(HT20) Mode 2462MHz						
20.0 dBu	V/m							
10								
00								
0	mmm	m						
0	v	-				FCC Part 15C 3M A	bove-16 Pea	k
°0								
0			1 X					
io 🖵			2			FCC Part 15C 3M A	Above-1G AV	
o								
o 📃								
0.0								
No.	Freque (MH:		Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.5	500	26.07	31.43	57.50	74.00	-16.50	peak
2 *	2483.5	500	16.81	31.43	48.24	54.00	-5.76	AVG

CTC Laboratories, Inc. Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Tel.: (86)755-27521059 日目家认证认可监督管理委员会 CTC Laboratories, Inc. Fax: (86)755-27521011 Fax: (86)755-27521011 For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : <u>yz.cnca.cn</u>



nt. Po	l.	Hori	zontal					
est Mo	ode:	802.	11n(HT40)	Mode 2422	MHz			
20.0 dB	uV/m							
10								
00								
						Amon	man	wm
:0							V	
						FCC Part 15C 3M	Above-1G Pea	ik .
0					1			
0					1 X	FCC Part 15C 3M	Above-16 AV	
0					-	1		
0								
:0								
20.0								
No.	Freque (MHz		Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.0	00	30.03	31.08	61.11	74.00	-12.89	peak
2 *	2390.0	00	19.21	31.08	50.29	54.00	-3.71	AVG

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

CTC Laboratories, Inc. Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Tel.: (86)755-27521059 日目家认证认可监督管理委员会 CTC Laboratories, Inc. Fax: (86)755-27521011 Fax: (86)755-27521011 For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : <u>yz.cnca.cn</u>



		802.	11n(HT40)	Mode 2422	MHz			
	m		. ,					
n								
0								
0								
						FCC Part 15C 3M A	My Mulm bove 16 Peal	Arm -
ı					1	FCC Part 15C 3M A	10.44	
						FLC Part TSC 3M A	Above-16 AV	
.0								
2293.000	2308.00	2323.00	2338.00 2	353.00 (MHz)	2383.00	2398.00 2413.0	00 2428.0	0 2443.0
No.	Frequ (MF		Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detecto
1	2390	.000	28.15	31.08	59.23	74.00	-14.77	peak
2 *	2390	.000	17.36	31.08	48.44	54.00	-5.56	AVG

Page 74 of 137

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

CTC Laboratories, Inc. Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn For anti-fake verification, please visit the official website of Certification and 中国国家认证认可监督管理委员会 EN Accreditation Administration of the People's Republic of China : yz.cnca.cn



ode 2452M		FCC Part 15C 3M /	Above-16 Pea	k
		FCC Part 15C 3M /	Above-16 Pea	k
		FCC Part 15C 3M /	Above-16 Pea	k
		FCC Part 15C 3M /	Above-16 Pea	k
		FCC Part 15C 3M /	Above-16 Pea	k
		FCC Part 15C 3M /	Above-16 Pea	k
				<u>~</u>
And the second second		FCC Part 15C 3M /	Above-1G AV	
				0 2581.0
E star	- Louis -	1 1		
			(dB)	Detector
31.43	59.37	74.00	-14.63	peak
31.43	48.88	54.00	-5.12	AVG
	31.43	Factor (dB/m) Level (dBuV/m) 31.43 59.37	Factor (dB/m) Level (dBuV/m) Limit (dBuV/m) 31.43 59.37 74.00	Factor (dB/m) Level (dBuV/m) Limit (dBuV/m) Margin (dB) 31.43 59.37 74.00 -14.63

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

CTC Laboratories, Inc. Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn Http://www.sz-ctc.org.cn For anti-fake verification, please visit the official website of Certification and 中国国家认证认可监督管理委员会 EN Accreditation Administration of the People's Republic of China : yz.cnca.cn



nt. Pol	-	Verti	ical						
est Mo	de:	802.	11n(HT40)	Mode 2452	MHz			
20.0 dBu	W/m								
10									
00									
0									
o Am	mmp	wan	1				FCC Part 15C 3M /	Above-1G Pea	k
0									
;0				1 X			FCC Part 15C 3M /	Above-16 AV	
o			\	2 X					
0									
0									
0.0 2431.000	2446.00	2461.00	247	6.00 24	91.00 (MHz)	2521.00	2536.00 2551.	00 2566.0	0 2581.
No.	Freque (MH:			ading BuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detecto
1	2483.	500	20	6.93	31.43	58.36	74.00	-15.64	peak
2 *	2483.	500	10	6.71	31.43	48.14	54.00	-5.86	AVG

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

CTC Laboratories, Inc. Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Tel.: (86)755-27521059 日目家认证认可监督管理委员会 CTC Laboratories, Inc. Fax: (86)755-27521011 Fax: (86)755-27521011 For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : <u>yz.cnca.cn</u>



nt.	Pol.		Horiz	zontal					
est	Mod	le:	TX 8	602.11ax(HE	20) Mode 2	2412MHz			
20.0	dBuV	/m							
10									
00									
								mm	my
80 -							FCC Part 15C 3M /	Above-1G Pea	k
70									
50 -							1 X		
50							FCC Part 15C 3M	bove-16 AV	
~	,								
10									
30 – 20.0									
	2.800	2314.80	2326.80	2338.80 23	350.80 (MHz)	2374.80	2386.80 2398.	80 2410.8	30 2422.8
No	o.	Freque (MH:		Reading (dBu∀)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1		2390.0	000	29.38	31.08	60.46	74.00	-13.54	peak
2	*	2390.0	000	19.47	31.08	50.55	54.00	-3.45	AVG
Zom	arks:								

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

CTC Laboratories, Inc. Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Tel.: (86)755-27521059 中国国家认证认可监督管理委员会 CTC Laboratories, Inc. Fax: (86)755-27521011 Fax: (86)755-27521011 For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : <u>vz.cnca.cn</u>



nt. Po	ol.	Vert	ical					
est M	ode:	TX 8	302.11ax(HE	E20) Mode 2	2412MHz			
20.0 dB	uV/m			,				
10								
00								
o							mm	m
o						FCC Part 15C 3M	Above-1G Pe	ak
0								
;o						1 FCC Part 15C 3M	Above-16 AV	
io	*****					- 2 mm	ADOTE-TO AT	t
o								
o								
0.0 2304.00	0 2316.00	2328.00	2340.00 23	352.00 (MHz)	2376.00	2388.00 2400	.00 2412.	00 2424.
No.	Freque (MHz	-	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.0	000	27.91	31.08	58.99	74.00	-15.01	peak
2 *	2390.0	000	17.56	31.08	48.64	54.00	-5.36	AVG
2	2390.0	.00	17.50	51.00	40.04	04.00	-5.56	_ <u>Av</u> G

CTC Laboratories, Inc. Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Tel.: (86)755-27521059 中国国家认证认可监督管理委员会 CTC Laboratories, Inc. Fax: (86)755-27521011 Http://www.sz-ctc.org.cn For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : <u>yz.cnca.cn</u>



Ant. P	ol.	Horiz	zontal							Horizontal TX 802.11ax(HE20) Mode 2462MHz									
Test N	lode:	TX 8	02.11	ax(HE	20) Mc	de 2	462M	Hz											
120.0 d	BuV/m																		
110																			
00																			
0	m																		
io -		[FCC Part	15C 3M	Above-1G Po	eak							
0																			
;0		<u> </u>	1×						EEC Deal	150 34	Above-1G A								
io /		1	2								ADOVE-TG A								
o																			
o																			
0.0 2450.0	00 2462.00 2	2474.00	2486.0		98.00 ((MHz)	2522		2534.00	2546.	00 2558	8.00 2570.							
No.	Freque (MH:			ding uV)	Fact (dB/r		Le (dBu		Lir (dBu		Margir (dB)	Detector							
		z)		uV)		m)		V/m)		V/m)		Delector							

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

CTC Laboratories, Inc. Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Tel.: (86)755-27521059 日目家认证认可监督管理委员会 CTC Laboratories, Inc. Fax: (86)755-27521011 Fax: (86)755-27521011 For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : <u>yz.cnca.cn</u>



nt. Pol		Verti	cal					
est Mo	de:	TX 8	02.11ax(HE	20) Mode 2	2462MHz			
20.0 dBu\	//m		1		1			
10								
00								
0								
. [_	www	1						
						FCC Part 15C 3M A	bove-1G Peal	<u>د</u>
0								
o			1 X					
o 🕂			2			FCC Part 15C 3M A	bove-16 AV	
~			······ ¥······					
0								
0.0 2447.600	2459.60 2	471.60	2483.60 24	95.60 (MHz)	2519.60 2	2531.60 2543.0	60 2555.6	0 2567.6
No.	Frequer (MHz		Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
		<i>.</i>			. ,			
1	2483.5		27.54	31.43	58.97	74.00	-15.03	peak
2 *	2483.5	00	16.79	31.43	48.22	54.00	-5.78	AVG

CTC Laboratories, Inc. Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Tel.: (86)755-27521059 中国国家认证认可监督管理委员会



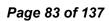
'est N	lode:		TX 8	302.1	1ax(H	E40)	Mode	242	2MF	Ηz						
	iBuV/m					,										
110													_			
00											-		-			
90 L																
												man	- N	a free	m	~
30												art 15C	2 14 A	bove-1G	Pask	-++
70												ait i se	JMA	0046-10	Gak	
										1 X						
50 <u> </u>																
50											FCC F	art 15C	3M A	bove-1G	AV	
	~							مىرىمى مەربىلىر								
40 <u> </u>													_			
30																
20.0	500 2309	150 2	324.50	233	3 50 (2354.50	(MH)	-1	2384.	50 3	2399.5	50 2	414.5	0 24	29.50	2444.5
No.	Fr	equei (MHz	-		ading BuV)		actor IB/m)		Lev Bu\	/el //m)		Limit BuV/r	n)	Marg (dB)		Detecto
1	2	390.0	00	32	2.28	3	1.08		63.3	36	7	4.00		-10.6	64	peak
2 *	2	390.0	00	19	9.79	3	1.08		50.8	87	5	54.00		-3.1	3	AVG

CTC Laboratories, Inc. Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Tel.: (86)755-27521059 中国国家认证认可监督管理委员会 CTC Laboratories, Inc. Fax: (86)755-27521011 Fax: (86)755-27521011 For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : <u>vz.cnca.cn</u>



nt. Po	l.	Verti	cal					
st Mo	de:	TX 8	802.11ax(HE	40) Mode 2	2422MHz			
20.0 dB	JV/m	_						
10								
)								
)							moun	mm
, ⊨						FCC Part 15C 3M	ADOVE-TG PE	зк
,					1			
,						FCC Part 15C 3M	Above-1G AV	
)				a manana mana mana mana mana mana mana	man	-n		
ı —								
)								
).0								
No.	Frequ	-	Reading	Factor		Limit	Margin	Detector
	(MH	· ·	(dBuV)	(dB/m)		(dBuV/m)		
1	2390.	000	28.47	31.08	59.55	74.00	-14.45	peak
2 *	2390.	000	18.80	31.08	49.88	54.00	-4.12	AVG
2	2330.	000	10.00	01.00	40.00	04.00	-7.12	7.0

CTC Laboratories, Inc. Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Tel.: (86)755-27521059 中国国家认证认可监督管理委员会





nt. Po		Horiz	zonta	al					
est Mo	de:	TX 8	802.1	1ax(HE	40) Mode 2	2452MHz			
20.0 dBu	V/m			`					
0									
0									
,		~							
m	marin	m	7						
'							FCC Part 15C 3M	Above-16 Pea	ak
•									
				1 X					
<u> </u>				ž			FCC Part 15C 3M	Above-1G AV	
'			~	Xurra		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
•									
,									
0.0									
2431.000	2446.00	2461.00	247	5.00 24	91.00 (MHz)	2521.00	2536.00 2551	.00 2566.	00 2581.
						1			
	Freque	ncy		ading	Factor (dB/m)		Limit (dBuV/m)	Margin (dB)	Detector
No.	(MH:	-	(d	BuV) ∣	(ub/iii)	(dBuV/m)	(ubu v/m)	(
No.	(MH: 2483.5	z)		Бuv) 1.14	31.43	(dBuV/m) 62.57	74.00	-11.43	peak
		z) 500	3					. ,	peak AVG
1	2483.5	z) 500	3	1.14	31.43	62.57	74.00	-11.43	· ·

CTC Laboratories, Inc. Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Tel.: (86)755-27521059 中国国家认证认可监督管理委员会 CTC Laboratories, Inc. Fax: (86)755-27521011 Fax: (86)755-27521011 For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : <u>yz.cnca.cn</u>



nt	. Pol	•		Ve	ertic	al									
est	t Mo	de:		T	X 80)2.1	l1ax(HE	40) Moo	de 2	2452N	1Hz				
20.0	dBuV	/m													
10															
00															
0															
0	mound	ma	m	m	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~							FCC Part 15C 3	M Ab	ove-16 Peak	
0															<u> </u>
0							1 X								
0						L	2					FCC Part 15C 3	M Ab	ove-1G AV	
0															
0.0	31.000	2446.		2461.0		247		91.00 (M	Hz)	252	1.00 2	536.00 25	51.00) 2566.0	0 2581.0
N	l o.		eque (MH		y		eading BuV)	Facto (dB/m			evel iV/m)	Limit (dBuV/n		Margin (dB)	Detector
	1	24	483.	500		2	8.41	31.43	3	59	.84	74.00	1	-14.16	peak
2	2 *	24	483.	500		1	7.55	31.43	3	48	.98	54.00		-5.02	AVG

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

CTC Laboratories, Inc. Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Tel.: (86)755-27521059 日目家认证认可监督管理委员会 CTC Laboratories, Inc. Fax: (86)755-27521011 Fax: (86)755-27521011 For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : <u>yz.cnca.cn</u>

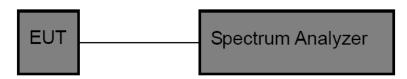


3.4. Band edge and Spurious Emissions (Conducted)

<u>Limit</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d):In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

Test Configuration



Test Procedure

- 1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT transmit continuously
- Use the following spectrum analyzer settings: RBW = 100 kHz, VBW ≥ RBW, scan up through 10th harmonic. Sweep = auto, Detector function = peak, Trace = max hold
- Measure and record the results in the test report.

Test Mode

Please refer to the clause 2.4.

Test Results

CTC Laboratories, Inc. Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Tel.: (86)755-27521059 中国国家认证认可监督管理委员会



(1) Band edge Conducted Test

Test Mode	Test Frequency [MHz]	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
802.11b	2412	7.44	-36.43	≤-22.57	PASS
	2462	7.32	-51.09	≤-22.68	PASS
802.11g	2412	5.21	-25.91	≤-24.79	PASS
	2462	4.42	-37.93	≤-25.58	PASS
802.11n(HT20)	2412	-0.52	-32.45	≤-30.52	PASS
	2462	3.74	-35.93	≤-26.26	PASS
802.11n(HT40)	2422	1.46	-30.51	≤-28.55	PASS
	2452	0.87	-31.62	≤-29.13	PASS
802.11ax(HE20)	2412	-3.45	-41.41	≤-33.45	PASS
	2462	2.73	-38.04	≤-27.27	PASS
802.11ax(HE40)	2422	1.27	-29.53	≤-28.73	PASS
	2452	0.06	-35.68	≤-29.94	PASS

CTC Laboratories, Inc. Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Tel.: (86)755-27521059 中国国家认证认可监督管理委员会 CTC Laboratories, Inc. Fax: (86)755-27521011 Fax: (86)755-27521011 For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : <u>vz.cnca.cn</u>

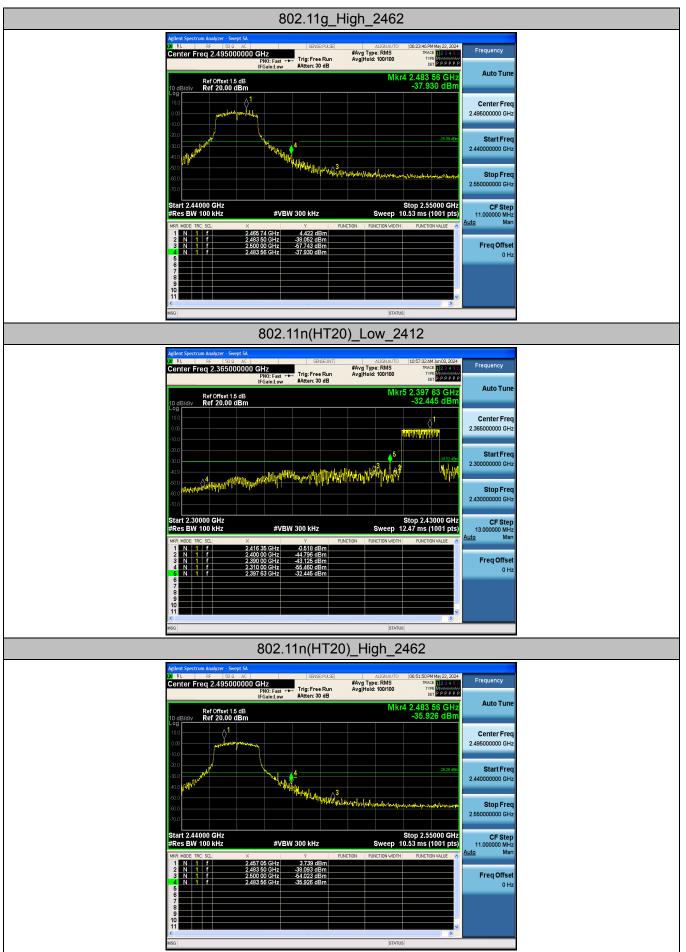






Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : yz.cnca.cn





Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059



Fax: (86)755-27521011 Http://www.sz-ctc.org.cn For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : yz.cnca.cn



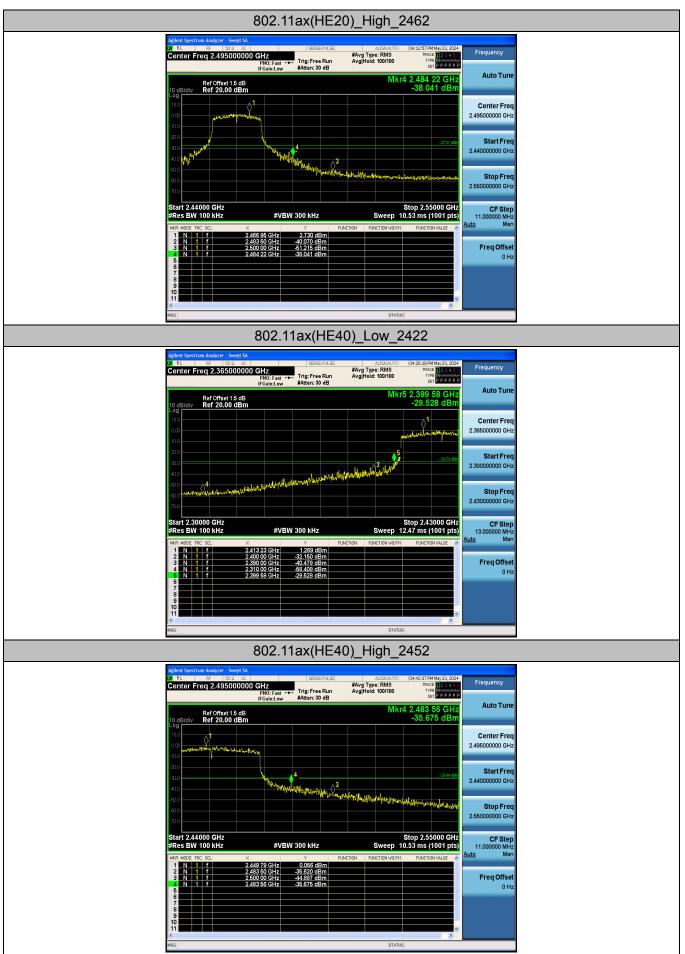


Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059



Fax: (86)755-27521011 Http://www.sz-ctc.org.cn For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : yz.cnca.cn





Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Fax: (86)755-27521011 Http://www.sz-ctc.org.cn For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : <u>yz.cnca.cn</u>



(2) Conducted Spurious Emissions Test

Test Mode	Test Frequency [MHz]	Freq. Range [Mhz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
802.11b		Reference	7.25	7.25		PASS
	2412	30~1000	7.25	-60.98	≤-22.75	PASS
		1000~26500	7.25	-44.08	≤-22.75	PASS
	2437	Reference	7.86	7.86		PASS
		30~1000	7.86	-60.6	≤-22.14	PASS
		1000~26500	7.86	-41.47	≤-22.14	PASS
	2462	Reference	8.16	8.16		PASS
		30~1000	8.16	-60.53	≤-21.84	PASS
		1000~26500	8.16	-38.76	≤-21.84	PASS
		Reference	5.26	5.26		PASS
	2412	30~1000	5.26	-67.87	≤-24.74	PASS
		1000~26500	5.26	-46.14	≤-24.74	PASS
		Reference	5.99	5.99		PASS
802.11g	2437	30~1000	5.99	-67.54	≤-24.01	PASS
		1000~26500	5.99	-46.26	≤-24.01	PASS
		Reference	4.08	4.08		PASS
	2462	30~1000	4.08	-67.52	≤-25.92	PASS
		1000~26500	4.08	-45.53	≤-25.92	PASS
	2412	Reference	-0.55	-0.55		PASS
		30~1000	-0.55	-67.78	≤-30.55	PASS
		1000~26500	-0.55	-41.59	≤-30.55	PASS
		Reference	5.92	5.92		PASS
802.11n(HT20)	2437	30~1000	5.92	-66.77	≤-24.08	PASS
		1000~26500	5.92	-45.47	≤-24.08	PASS
	2462	Reference	2.30	2.30		PASS
		30~1000	2.30	-67.79	≤-27.7	PASS
		1000~26500	2.30	-43.48	≤-27.7	PASS
	2422	Reference	-2.53	-2.53		PASS
		30~1000	-2.53	-67.73	≤-32.53	PASS
		1000~26500	-2.53	-52.37	≤-32.53	PASS
	2437	Reference	-0.43	-0.43		PASS
802.11n(HT40)		30~1000	-0.43	-67.6	≤-30.43	PASS
		1000~26500	-0.43	-47	≤-30.43	PASS
	2452	Reference	-1.42	-1.42		PASS
		30~1000	-1.42	-67.77	≤-31.42	PASS
		1000~26500	-1.42	-47.35	≤-31.42	PASS
802.11ax(HE20)	2412	Reference	-2.97	-2.97		PASS
		30~1000	-2.97	-67.94	≤-32.97	PASS
		1000~26500	-2.97	-50.84	≤-32.97	PASS
	2437	Reference	1.66	1.66		PASS

CTC Laboratories, Inc.

EN 中国国家认证认可监督管理委员会

Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Tel.: (86)755-27521059 下部 中国国家认证认可监督管理委员会

Accreditation Administration of the People's Republic of China : yz.cnca.cn



		30~1000	1.66	-66.84	≤-28.34	PASS
		1000~26500	1.66	-46.26	≤-28.34	PASS
	2462	Reference	1.08	1.08		PASS
		30~1000	1.08	-68	≤-28.92	PASS
		1000~26500	1.08	-45.86	≤-28.92	PASS
802.11ax(HE40)	2422	Reference	-0.64	-0.64		PASS
		30~1000	-0.64	-67.22	≤-30.64	PASS
		1000~26500	-0.64	-47.22	≤-30.64	PASS
	2437	Reference	-1.75	-1.75		PASS
		30~1000	-1.75	-67.43	≤-31.75	PASS
		1000~26500	-1.75	-47.67	≤-31.75	PASS
	2452	Reference	-1.21	-1.21		PASS
		30~1000	-1.21	-67.79	≤-31.21	PASS
		1000~26500	-1.21	-47.82	≤-31.21	PASS

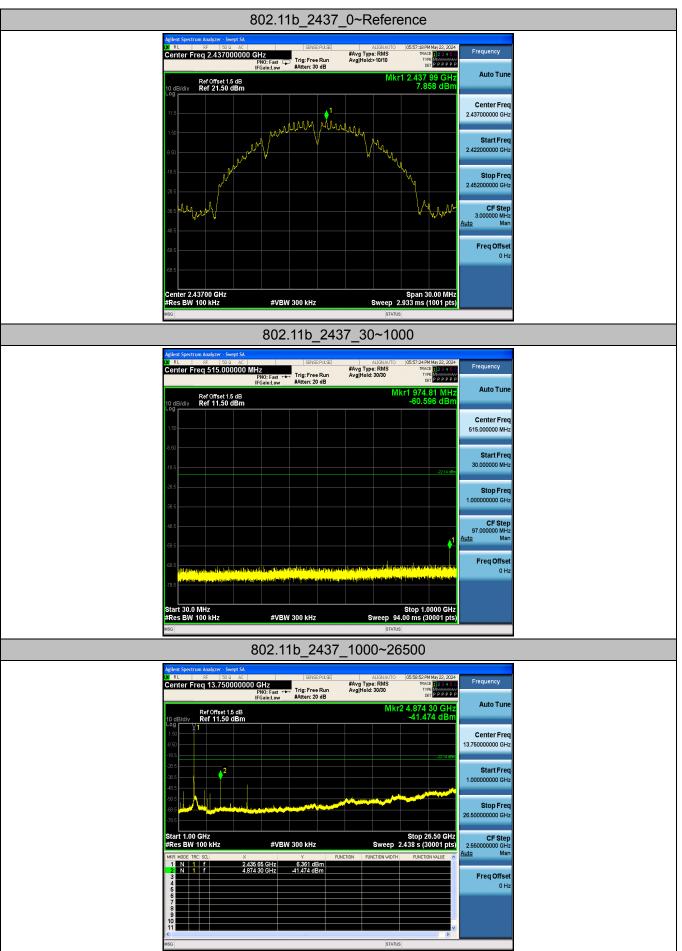






Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Fax: (86)755-27521011 Http://www.sz-ctc.org.cn For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : yz.cnca.cn





Tel.: (86)755-27521059



Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Fax: (86)755-27521011 Http://www.sz-ctc.org.cn For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : yz.cnca.cn