

**CTC** Laboratories, Inc.

Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China

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TEST REPORT		
Report No	CTC20231665E05	
FCC ID		
	2AR24-AIBOX500	
Applicant:	Shenzhen Absen Optoelectronic	
Address:	18-20/F, Tower A, Building 3, Phase N0.2018, Xuegang Rd, Bantian, Lo Guangdong, P.R. China	
Manufacturer	Shenzhen Absen Optoelectronic C	o.,Ltd
Address	18-20/F, Tower A, Building 3, Phase N0.2018, Xuegang Rd, Bantian, Lo Guangdong, P.R. China	
Product Name:	LED Multimedia Processor	
Trade Mark:	Absen	
Model/Type reference:	AiBox 500	
Listed Model(s):	1	
Standard:	FCC CFR Title 47 Part 15 Subpar	t C Section 15.247
Date of receipt of test sample:	Aug. 18, 2023	
Date of testing	Aug. 19, 2023 ~ Dec. 11, 2023	
Date of issue	Jul. 3, 2024	
Result:	PASS	
Compiled by:		I word Com.
(Printed name+signature)	Lucy Lan	lney lan
Supervised by:		Zich Thana
(Printed name+signature)	Eric Zhang	Zric zhang Johnas
Approved by:		1 emas
(Printed name+signature)	Totti Zhao	
Testing Laboratory Name:	CTC Laboratories, Inc.	
		ng 1at Dood Jubu
Address:	Room 101 Building B, No. 7, Lanqi Community, Guanhu Subdistrict, Lo Guangdong, China	•
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# **1. TEST SUMMARY**

# 1.1. Test Standards

The tests were performed according to following standards:

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

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

# **1.2. Report Version**

Revised No.	Report No.	Date of issue	Description
01	CTC20231665E05	Jul. 3, 2024	Original

## **1.3. Test Description**

FCC Part 15 Subpart C (15.247)			
Test Item	Standard Section	Result	Test Engineer
Antenna Requirement	15.203	Pass	Lucy Lan
Conducted Emission	15.207	Pass	Lucy Lan
Conducted Band Edge and Spurious Emissions	15.247(d)	Pass	Lucy Lan
Radiated Band Edge and Spurious Emissions	15.205&15.209& 15.247(d)	Pass	Lucy Lan
6dB Bandwidth	15.247(a)(2)	Pass	Lucy Lan
Conducted Max Output Power	15.247(b)(3)	Pass	Lucy Lan
Power Spectral Density	15.247(e)	Pass	Lucy Lan
Transmitter Radiated Spurious	15.209&15.247(d)	Pass	Lucy Lan

Note:

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1. The measurement uncertainty is not included in the test result.

N/A: means this test item is not applicable for this device according to the technology characteristic of 2. device.



# 1.4. Test Facility

#### Address of the report laboratory

#### 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 in our 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 of mobile radio equipment 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.

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)

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

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:	15 °C to 35 °C
Relative Humidity:	20 % to 75 %
Air Pressure:	101 kPa



# 2. GENERAL INFORMATION

# 2.1. Client Information

Applicant:	Shenzhen Absen Optoelectronic Co.,Ltd
Address:	18-20/F, Tower A, Building 3, Phase I, Tian An Cloud Park, N0.2018, Xuegang Rd, Bantian, Longgang District, Shenzhen, Guangdong, P.R. China
Manufacturer:	Shenzhen Absen Optoelectronic Co.,Ltd
Address:	18-20/F, Tower A, Building 3, Phase I, Tian An Cloud Park, N0.2018, Xuegang Rd, Bantian, Longgang District, Shenzhen, Guangdong, P.R. China
Factory:	Huizhou Absen Optoelectronic Limited.
Address:	No. 03, Donghua South road, Dongjiang Hi-tech Industry Park, Huizhou. Guangdong, China

# 2.2. General Description of EUT

Product Name:	LED Multimedia Processor
Trade Mark:	Abyen
Model/Type reference:	AiBox 500
Listed Model(s):	/
Model Difference:	/
Power Supply:	AC 100-240V~2.5A 50/60Hz
RF Module Model:	BL-M8811CU2
Hardware Version:	/
Software Version:	/
2.4G Wi-Fi	
Modulation:	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/ n: OFDM (BPSK, QPSK, 16QAM, 64QAM)
Operation Frequency:	802.11b/ g/ n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz
Channel Number:	802.11b/ g/ n(HT20): 11 channels 802.11n(HT40): 7 channels
Channel Separation:	5MHz
Antenna Type:	External Antenna
Antenna Gain:	3.55dBi

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# 2.3. Accessory Equipment Information

Equipment Information			
Name	Model	S/N	Manufacturer
Notebook	ThinkPad T460s	/	Lenovo
Cable Information	Cable Information		
Name	Shielded Type	Ferrite Core	Length
USB Cable	Unshielded	NO	150cm
Test Software Information			
Name Version / /			
adb.exe	1	/	1



# 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), CH 03~CH 09 for 802.11n(HT40)

#### 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.

Test Mode	Data Rate (worst mode)	
802.11b	1Mbps	
802.11g	6Mbps	
802.11n(HT20)/n(HT40)	HT-MCS0	

#### 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.

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## 2.5. Measurement Instruments List

RF Test System								
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated Until			
1	MXA Signal Analyzer	Keysight	N9020A	MY46471737	Dec. 16, 2023			
2	High and low temperature test chamber	ESPEC	MT3035	/	Mar. 24, 2024			
3	Test Software	WCS	WCS-WCN	2023.08.04	/			

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		
2	Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-647	Dec. 01, 2024		
3	Test Receiver	Keysight	N9038A	MY56400071	Dec. 16, 2023		
4	Broadband Amplifier	SCHWARZBECK	BBV9743B	259	Dec. 16, 2023		
5	Mirowave Broadband Amplifier	SCHWARZBECK	BBV9718C	111	Dec. 16, 2023		
6	3m chamber 3	YIHENG	EE106	/	Aug. 28, 2026		
7	Test Software	FARA	EZ-EMC	FA-03A2	/		

Conducted Emission							
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated Until		
1	LISN	R&S	ENV216	101112	Dec. 16, 2023		
2	LISN	R&S	ENV216	101113	Dec. 16, 2023		
3	EMI Test Receiver	R&S	ESCS30	100353	Dec. 16, 2023		
4	ISN CAT6	Schwarzbeck	NTFM 8158	CAT6-8158-0046	Dec. 16, 2023		
5	ISN CAT5	Schwarzbeck	NTFM 8158	CAT5-8158-0046	Dec. 16, 2023		
6	Test Software	R&S	EMC32	6.10.10	/		

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

2. The Cal. Interval was three years of the antenna.

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

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# 3. TEST ITEM AND RESULTS

# 3.1. Conducted Emission

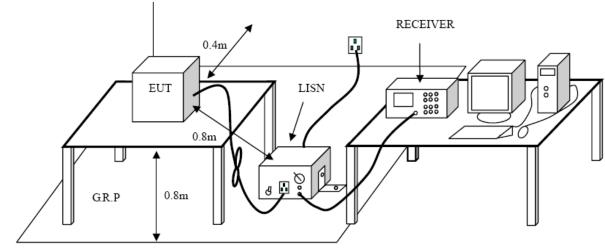
### <u>Limit</u>

#### FCC CFR Title 47 Part 15 Subpart C Section 15.207

	Conducted Limit (dBµV)					
Frequency (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.

The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting 2. 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.

The EUT and simulators are connected to the main power through a line impedance stabilization 3 network (LISN). The LISN provides a 50 ohm / 50 µH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the 4. block diagram of the test setup and photographs)

Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was 5. individually connected through a LISN to the input power source.

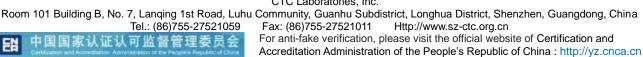
The excess length of the power cord between the EUT and the LISN receptacle were folded back and 6. forth at the center of the lead to form a bundle not exceeding 40 cm in length.

Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a 7. receiver bandwidth of 9 kHz.

During the above scans, the emissions were maximized by cable manipulation. 8.

#### **Test Mode**

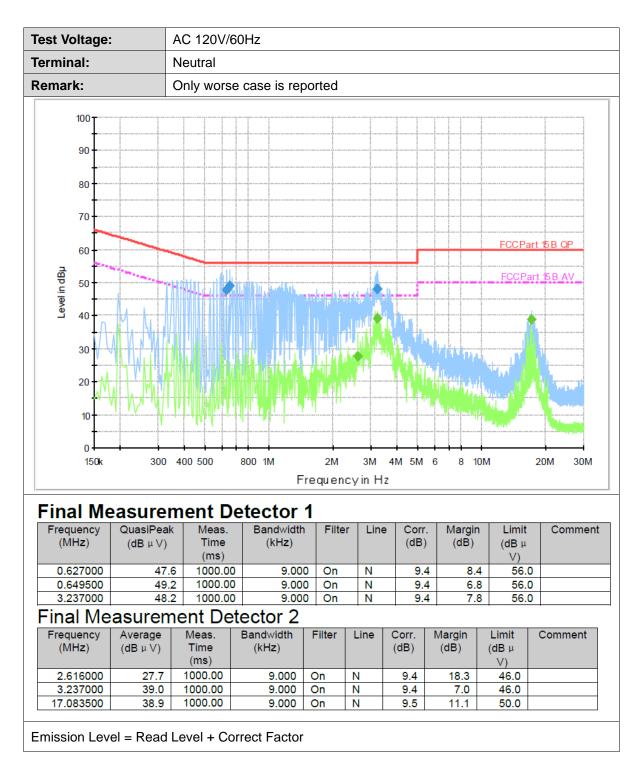
Please refer to the clause 2.4.





Test Vo	Itage:		AC 120V/60Hz Line								
<b>Fermin</b> a	al:										
Remarl	<b>(</b> :		Only worse	e case is rep	oorted						
	100 T								1		
	90										
	80										
	70										
	60								FCCPa	art 15 B QP	
Level in dBµ	50	· · · · · · ·							FCCP	art 15B AV	
Leve	40										
	30		• • • • • • • • • • • • • •		LI LI LI LI Li Li Li Li Li			Notifica 	u Maadoologi Maadoologi		
	20										
	0										
	150k	300	400 500	800 1M	2M	3M	4M 5M	6 8 10	M	20M 30M	
					requen	cy in H	Z				
Fina Frequ		QuasiPeak		etector Bandwidth		r Line	e Corr	. Margin	Limit	Comment	
(MF	lz)	(dB µ V)	Time (ms)	(kHz)			(dB)		(dB µ ∨)	Comment	
	91000	48.7				L1	9.6				
	31500	46.8				L1	9.6				
	54000	50.7			0 On	L1	9.6	5 5.3	56.0		
				tector 2							
Frequ (MH		Average (dB µ ∀)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB µ ∀)	Comment	
(		18.6	1000.00	9.000	On	L1	9.5	27.4	46.0		
	13500	10.0						9.9			
0.61	13500 60500 33500	36.1	1000.00 1000.00	9.000	On	L1	9.5	9.9	46.0 50.0		





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# 3.2. Radiated Emission

#### <u>Limit</u>

#### FCC CFR Title 47 Part 15 Subpart C Section 15.209

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(meters)
0.009~0.490	2400/F (kHz)	300
0.490~1.705	24000/F (kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

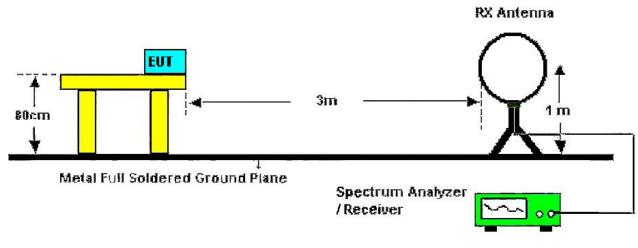
	dBµV/m (at 3 meters)				
Frequency Range (MHz)	Peak	Average			
Above 1000	74	54			

#### Note:

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

(2) Emission Level ( $dB\mu V/m$ )=20log Emission Level ( $\mu V/m$ ).

#### **Test Configuration**

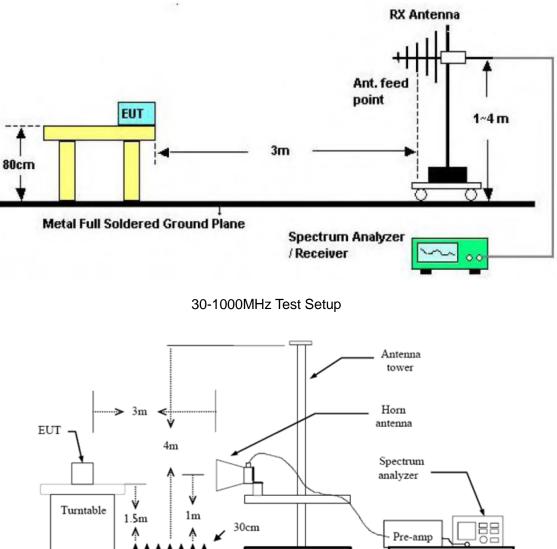


Below 30MHz Test Setup

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Above 1GHz Test Setup

### **Test Procedure**

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

The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for 2. 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.

For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna 4. 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.

- Set to the maximum power setting and enable the EUT transmit continuously. 5.
- Use the following spectrum analyzer settings 6.
- Span shall wide enough to fully capture the emission being measured; (1)
- (2) 9k 150kHz:

RBW=300 Hz, VBW=1 kHz, Sweep=auto, Detector function=peak, Trace=max hold (3) 0.15M – 30MHz:

RBW=10 kHz, VBW=30 kHz, Sweep=auto, Detector function=peak, Trace=max hold (4) 30M - 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

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peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

(5) From 1 GHz to 10<sup>th</sup> harmonic:

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 Result

#### 9 kHz~30 MHz

From 9 kHz to 30 MHz: The conclusion is PASS.

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





No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	234.6700	35.49	-15.08	20.41	46.00	-25.59	QP
2 *	312.5933	48.82	-13.22	35.60	46.00	-10.40	QP
3	374.9967	43.95	-11.68	32.27	46.00	-13.73	QP
4	460.0333	42.56	-9.93	32.63	46.00	-13.37	QP
5	562.5300	39.25	-7.63	31.62	46.00	-14.38	QP
6	707.3832	39.90	-5.43	34.47	46.00	-11.53	QP

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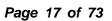
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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Ant. No.		Ant	-							
Ant. Pol	. Pol. Vertical									
Test Mo	de:	TX 802.11b Mode 2412MHz								
Remark		Onl	Only worse case is reported.							
30.0 dBu	W/m									
30										
70										
							FCC Part15 RE-Clas	∞ R 30-1000M		
io							Margin -6 dB			
.0										
			<u>+</u> +†				3 <b>4</b> 5		6 X	
0						2 X	Î li Mu	Marymulythen	Analy of URANS	
20		6		M.	A A A A A A		hand way and	-A.a. A.		
io hvin	Mr. Markan Markad	Murhau 1	hydrodu	angered in	n www.www.	WHEN A REAL PROCESSION				
.										
10										
30.000	60.	00			(MHz)	30	0.00		1000.00	
No.	Frequenc	y	Read	ding	Factor	Level	Limit	Margin	Detector	
NO.	(MHz)		(dBı	JV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector	
1	130.2332	2	39.	96	-19.55	20.41	43.50	-23.09	QP	
2	291.5767	'	40.	55	-13.73	26.82	46.00	-19.18	QP	
3	312.5933	;	42.	57	-13.22	29.35	46.00	-16.65	QP	
4	374.9967	·	43.	84	-11.68	32.16	46.00	-13.84	QP	
F	460.0333		40.4	40	-9.93	30.47	46.00	-15.53	QP	
5	100.0000	' I	40.4	-0	0.00	00.47	10.00	10.00	~	
5 6 *	874.8700		37.		-2.99	34.83	46.00	-11.17	QP	

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

2.Margin value = Level -Limit value

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Ant. No.	Ant 0
Ant. Pol.	Horizontal
Test Mode:	TX 802.11b Mode 2412MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	4823.934	30.89	2.06	32.95	54.00	-21.05	AVG
2	4823.996	41.68	2.06	43.74	74.00	-30.26	peak

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

Ant. No.	Ant 0
Ant. Pol.	Vertical
Test Mode:	TX 802.11b Mode 2412MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	4823.886	42.43	2.06	44.49	74.00	-29.51	peak
2 *	4824.009	32.10	2.06	34.16	54.00	-19.84	AVG

Remarks:

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

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Ant. No.	Ant 0
Ant. Pol.	Horizontal
Test Mode:	TX 802.11b Mode 2437MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	4874.030	28.39	2.15	30.54	54.00	-23.46	AVG
2	4874.185	41.03	2.15	43.18	74.00	-30.82	peak

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

2.Margin value = Level -Limit value

Ant. No.	Ant 0
Ant. Pol.	Vertical
Test Mode:	TX 802.11b Mode 2437MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)		Detector
1 *	4873.852	33.32	2.15	35.47	54.00	-18.53	AVG
2	4873.860	42.57	2.15	44.72	74.00	-29.28	peak

Remarks:

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

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Ant. No.	Ant 0
Ant. Pol.	Horizontal
Test Mode:	TX 802.11b Mode 2462MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	4923.778	40.51	2.24	42.75	74.00	-31.25	peak
2 *	4924.024	27.35	2.24	29.59	54.00	-24.41	AVG

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

2.Margin value = Level -Limit value

Ant. No.	Ant 0
Ant. Pol.	Vertical
Test Mode:	TX 802.11b Mode 2462MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)		Margin (dB)	Detector
1	4923.856	41.80	2.24	44.04	74.00	-29.96	peak
2 *	4923.939	31.40	2.24	33.64	54.00	-20.36	AVG

Remarks:

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

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Ant. No.	Ant 0
Ant. Pol.	Horizontal
Test Mode:	TX 802.11g Mode 2412MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	4823.513	41.07	2.06	43.13	74.00	-30.87	peak
2 *	4824.127	25.92	2.06	27.98	54.00	-26.02	AVG

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

Ant. No.	Ant 0			
Ant. Pol.	Vertical			
Test Mode:	TX 802.11g Mode 2412MHz			
Remark:	No report for the emission which more than 20 dB below the prescribed limit.			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	4823.642	25.43	2.06	27.49	54.00	-26.51	AVG
2	4823.727	40.60	2.06	42.66	74.00	-31.34	peak

Remarks:

EN

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

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Ant. No.	Ant 0
Ant. Pol.	Horizontal
Test Mode:	TX 802.11g Mode 2437MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	4873.615	39.18	2.15	41.33	74.00	-32.67	peak
2 *	4873.959	24.13	2.15	26.28	54.00	-27.72	AVG

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

2.Margin value = Level -Limit value

Ant. No.	Ant 0
Ant. Pol.	Vertical
Test Mode:	TX 802.11g Mode 2437MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	4873.967	24.25	2.15	26.40	54.00	-27.60	AVG
2	4874.103	39.76	2.15	41.91	74.00	-32.09	peak

Remarks:

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

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Ant. No.	Ant 0
Ant. Pol.	Horizontal
Test Mode:	TX 802.11g Mode 2462MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	4923.778	39.44	2.24	41.68	74.00	-32.32	peak
2 *	4924.043	24.21	2.24	26.45	54.00	-27.55	AVG

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

2.Margin value = Level -Limit value

Ant. No.	Ant 0				
Ant. Pol.	Vertical				
Test Mode:	TX 802.11g Mode 2462MHz				
Remark:	No report for the emission which more than 20 dB below the prescribed limit.				

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	4924.141	39.97	2.24	42.21	74.00	-31.79	peak
2 *	4924.222	23.97	2.24	26.21	54.00	-27.79	AVG

Remarks:

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

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Ant. No.	Ant 0
Ant. Pol.	Horizontal
Test Mode:	TX 802.11n(HT20) Mode 2412MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	4824.253	25.53	2.06	27.59	54.00	-26.41	AVG
2	4824.478	40.28	2.06	42.34	74.00	-31.66	peak

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

Ant. No.	Ant 0			
Ant. Pol.	Vertical			
Test Mode:	TX 802.11n(HT20) Mode 2412MHz			
Remark:	No report for the emission which more than 20 dB below the prescribed limit.			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4824.398	25.12	2.06	27.18	54.00	-26.82	AVG
2	4824.440	40.04	2.06	42.10	74.00	-31.90	peak

Remarks:

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

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Ant. No.	Ant 0
Ant. Pol.	Horizontal
Test Mode:	TX 802.11n(HT20) Mode 2437MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	4873.608	24.38	2.15	26.53	54.00	-27.47	AVG
2	4873.918	39.35	2.15	41.50	74.00	-32.50	peak

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

2.Margin value = Level -Limit value

Ant. No.	Ant 0				
Ant. Pol.	Vertical				
Test Mode:	TX 802.11n(HT20) Mode 2437MHz				
Remark:	No report for the emission which more than 20 dB below the prescribed limit.				

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4874.326	24.37	2.15	26.52	54.00	-27.48	AVG
2	4874.404	40.04	2.15	42.19	74.00	-31.81	peak

Remarks:

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

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Ant. No.	Ant 0			
Ant. Pol.	Horizontal			
Test Mode:	TX 802.11n(HT20) Mode 2462MHz			
Remark:	No report for the emission which more than 20 dB below the prescribed limit.			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	4923.964	24.31	2.24	26.55	54.00	-27.45	AVG
2	4924.007	39.28	2.24	41.52	74.00	-32.48	peak

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

2.Margin value = Level -Limit value

Ant. No.	Ant 0
Ant. Pol.	Vertical
Test Mode:	TX 802.11n(HT20) Mode 2462MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	4923.731	24.40	2.24	26.64	54.00	-27.36	AVG
2	4923.830	39.14	2.24	41.38	74.00	-32.62	peak

Remarks:

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

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Ant. No.	Ant 0			
Ant. Pol.	Horizontal			
Test Mode:	TX 802.11n(HT40) Mode 2422MHz			
Remark:	No report for the emission which more than 20 dB below the prescribed limit.			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4843.996	25.34	2.09	27.43	54.00	-26.57	AVG
2	4844.037	40.15	2.09	42.24	74.00	-31.76	peak

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

Ant. No.	Ant 0
Ant. Pol.	Vertical
Test Mode:	TX 802.11n(HT40) Mode 2422MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	4843.900	40.05	2.09	42.14	74.00	-31.86	peak
2 *	4844.471	25.21	2.09	27.30	54.00	-26.70	AVG

Remarks:

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

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Ant. No.	Ant 0			
Ant. Pol.	Horizontal			
Test Mode:	TX 802.11n(HT40) Mode 2437MHz			
Remark:	No report for the emission which more than 20 dB below the prescribed limit.			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4873.931	24.27	2.15	26.42	54.00	-27.58	AVG
2	4874.115	39.76	2.15	41.91	74.00	-32.09	peak

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

2.Margin value = Level -Limit value

Ant. No.	Ant. No. Ant 0						
Ant. Pol.		Vertical					
Test Mod	le:	TX 802.11n(HT40) Mode 2437MHz					
Remark:	Remark: No report for the emission which more than 20 dB below the prescribed limit.					scribed	
	Frequency	Reading	Factor	l evel	Limit	Margin	

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)			Detector
1	4873.873	39.37	2.15	41.52	74.00	-32.48	peak
2 *	4874.158	24.34	2.15	26.49	54.00	-27.51	AVG

Remarks:

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

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Ant. No.	Ant 0				
Ant. Pol.	Horizontal				
Test Mode:	TX 802.11n(HT40) Mode 2452MHz				
Remark:	No report for the emission which more than 20 dB below the prescribed limit.				

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	4904.176	24.74	2.19	26.93	54.00	-27.07	AVG
2	4904.219	39.72	2.19	41.91	74.00	-32.09	peak

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

2.Margin value = Level -Limit value

Ant. No.	Ant 0				
Ant. Pol.	Vertical				
Test Mode:	TX 802.11n(HT40) Mode 2452MHz				
Remark:	No report for the emission which more than 20 dB below the prescribed limit.				

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	4903.649	24.79	2.19	26.98	54.00	-27.02	AVG
2	4904.275	40.45	2.19	42.64	74.00	-31.36	peak

Remarks:

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

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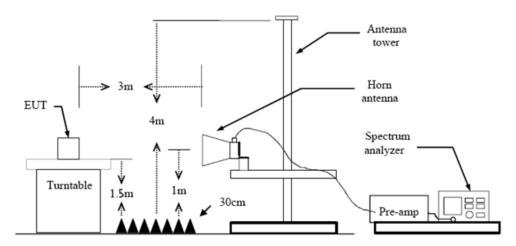
# 3.3. Band Edge Emissions (Radiated)

Limit

#### FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d)

Restricted Frequency Band	(dBµV/m) (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.

The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 2. degrees to determine the position of the maximum emission level.

The EUT was positioned such that the distance from antenna to the EUT was 3 meters. 3.

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. The receiver set as follow: 5

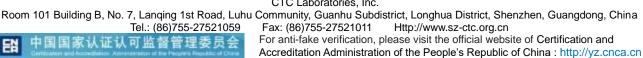
RBW=1MHz, VBW=3MHz Peak detector for Peak value.

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.





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2302.800	2314.80	2326.80	2338.80	2350.80 (MHz)	2374.80	2386.80 2398.	80 2410.0	BO 2422.							
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No.	Freque (MHz	-	Reading (dBuV)	-	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector							
1	2387.1	120	20.45	30.87	51.32	74.00	-22.68	peak							
•	2387.1	120	9.63	30.87	40.50	54.00	-13.50	AVG							
2 *		000	18.27	30.88	49.15	74.00	-24.85	peak							
2 * 3	2390.0	000													

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

2.Margin value = Level -Limit value

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Ant. No			Ant 0												
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No.		uency Hz)	Readi (dBu\	<u> </u>	Factor (dB/m)		Level (dBuV/m)		Limit (dBuV/m)		Margi (dB)	DEFECTO			
1	2386	6.760	27.8	3	30.87	'	58	.75	74	.00	-15.2	5 peak			
2 *	2386	6.760	19.49	Э 🗌	30.87	'	50.	.36	54	.00	-3.64	AVG			
3	2390	0.000	28.5	1	30.88		59.39		74.00		-14.6	1 peak			
4	2390	2390.000 16.11		1	30.88		46.99		54.00		-7.01	AVG			
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2.Margin value = Level -Limit value

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	Frequ	iency		eadir	ha	Fa	ctor		vel	Lie	nit	Mar	nin			
No.	(MI	-		dBuV	-		/m)			(dBu		(dE	-	Detector		
4			`		·			`				`				
1	2483			18.54	•		.25		.79		.00	-24.		peal		
2	2483	.500		4.67		31	.25	35	.92	54	.00	-18.	80	AVG	•	
3	2518	.920	1	15.36	3	31	.38	46	.74	74	.00	-27.	26	peal	<	
4 *	2518	.920		7.69		31	.38	39	.07	54	.00	-14.	93	AVG	3	

2.Margin value = Level -Limit value

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Ant. No.		Ant 0													
Ant. Pol.		Vertical	Vertical												
Test Mod	le:	TX 802.11b	TX 802.11b Mode 2462MHz												
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2101.200			(												
No.	Frequency (MHz)	/ Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector								
1	2483.500	23.61	31.25	54.86	74.00	-19.14	peak								
2	2483.500	13.08	31.25	44.33	54.00	-9.67	AVG								
3	2487.680	23.69	31.26	54.95	74.00	-19.05	peak								
4 *	2487.680	15.05	31.26	46.31	54.00	-7.69	AVG								
	1		1	1	1		1								

2.Margin value = Level -Limit value

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:	2302.200	2314.20	2326	6.20	233	8.20	23	50.20	(Mł	lz)	2	374.	20	2386.	20	2398	.20	2410.	20	2422.20	)
	2302.200 2314.20 2326.20 2338.20 2350.20 (MHz) 2374.20 2386.20 2398.20 2410.20 2422.20																				
	No.	Freq (M	uenc IHz)	у		adin BuV			acto 3/m			ev lu∖	el //m)	1	Limi 3u∀/			irgin IB)	Dete	Detector	
	1	239	0.000	)	26	6.92		30	.88		5	7.8	80	7	74.0	0	-16	6.20	peak		
	2 *	239	0.000	)	9	.39		30.88			40.27		54.00		-13.73		AVG		Γ		
				1			1														-

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

2.Margin value = Level -Limit value



Ant.	No.			Ant 0													
Ant.	Pol.			Verti	Vertical												
Test	Mod	e:		TX 802.11g Mode 2412MHz													
120.0	dBuV	//m															
110																	
100 -														_			
90																	
80																	
70												- Above 1	G PK	{			
										X		/					
60												- Above 1	AV				
50 -										2	~~						
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10																	
0.0 230	)1.600	2313.60	2325.6	50 233	7.60	2349.60	(MHz	1 3	2373.60	2385.60	2397	.60 24	09.60	2421	1.60		
	2301.600 2313.60 2325.60 2337.60 2349.60 (MHz) 2373.60 2385.60 2397.60 2409.60 2421.60																
N	o.	Frequ (M	uency Hz)		ading BuV)		actor B/m)		.evel 3uV/m)		mit Ⅳ/m)	Margi (dB)		Detector			
1		2390	0.000	3	5.74	30	D.88	6	6.62	74	.00	-7.38	3	peak	(		
2	*	2390	2390.000		18.41		30.88		49.29		54.00		1	AVG			

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



Ant. No.		Ant 0	Ant 0								
Ant. Pol.		Horizontal									
Test Mod	le:	TX 802.11	g Mode 24	162MF	Ηz						
120.0 dBu\	//m				1			1		1	_
110											
100											
0											
'0							FCC I	Part15 C	- Above 16	G PK	
50		1 X			-		FCC	Part15 C	- Above 10	AV	
50					3 X 4						
0		2			4		www.enerseerstation	******		-	menster
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20					2.47° U (x794)						
0	2464.40 2476.4	) 2488.40	2500.40	(MHz)	2524	.40	2536.40	2548.	.40 256	60.40	2572.4
0 0 0.0	2464.40 2476.4	) 2488.40	2500.40	(MHz)	2524	.40	2536.40	2548.	40 256	60.40	2572.
0 0 0.0	2464.40 2476.44 Frequency (MHz)	0 2488.40 Readin (dBuV)	g Fac	tor	Lev	rel	2536.40 Lin (dBu)	nit	40 256 Margi (dB)	in <sub>De</sub>	2572.
0 0 2452.400	Frequency	Readin	g Fac ) (dB/	tor m)	Lev	rel //m)	Lin	nit √/m)	Margi	in <sub>De</sub>	
20 0 0.0 2452.400 No.	Frequency (MHz)	Readin (dBuV	g Fac ) (dB/	ctor (m) 25	Lev (dBu\	rel //m) 67	Lin (dBu\	nit √/m) 00	Margi (dB)	in <sub>De</sub> 3 p	tector
0 0 2452.400 No.	Frequency (MHz) 2483.500	Readin (dBuV) 21.42	g Fac ) (dB/ 31. 31.	ctor (m) 25 25	Lev (dBu\ 52.0	rel //m) 67 24	Lin (dBu\ 74.	nit V/m) 00 00	Margi (dB) -21.3	in <sub>De</sub> 3 p 6 A	tector eak

2.Margin value = Level -Limit value

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Ant	. No.				A	nt 0															
Ant	. Pol.				\	/ertic	al														
Tes	t Mod	le:			Т	FX 80	02.11	lg M	lode 2	2462	МH	lz									
120.0	) dBu\	//m																			
110 100																					
90	(		$\rightarrow$																		
80																		10	DV		
70	[ 					1 X										art i 5	AD	ove 1G	РК		
60				$\sum$		^															
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0.0	52.400	2464	40	2476.	10	240	8.40		00.40				4.40	2536.	10	254	B. 40	250	0.40	253	2.40
	132.400	2404		2470.	.40	240	0.40	23	00.40	(MH	12]	232	4.40	2330.	.40	234	D. 4U	2:36	0.40	237	2.40
Ν	lo.	Fr	equ (MH		y		adir Bu∀	-		icto 3/m]			vel IV/m)	1	Lim Bu∖			argi dB)	n c	Detect	or
	1	2	483.	500		3	5.84	L	31	.25		67	.09		74.0	00	-(	6.91		peal	<
2	2 *	2	483.	500		1	9.40	)	31	.25		50	.65		54.0	00	-:	3.35		AVG	3
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	narks: actor (		n) = A	Anter	າກລ	Fact	or (d	IB/m	i)+Cal	ble F	ac	tor (dF	8)-Pre∹	amr	olifie	· Fac	ctor				
	argin		,				•		,		20		,	~							

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2.Margin value = Level -Limit value

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nt. No			Ant 0							
nt. Pol	I.		Horizonta							
est Mo	de:		TX 802.11	n(HT	20) Mode	2412M	Hz			
:0.0 dB	uV/m		Î					1		
o										
0										
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								FCC Part15 C	- Above 1G Pl	<u>.                                    </u>
								1 FBC Part15 C	Above 1G A	<u> </u>
								2		
			and the second second second							
.0										
2302.800	) 2314.80 23	26.80	2338.80	2350	1.80 (MHz	) 237	4.80	2386.80 2398.	80 2410.8	0 2422.8
No.	Frequen (MHz)		Readir (dBu∀		Factor (dB/m)		vel IV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.00	00	25.94		30.88	56	.82	74.00	-17.18	peak
2 *	2390.00	00	7.63		30.88	38	.51	54.00	-15.49	AVG
2 *	2390.00	00	7.63		30.88	38	.51	54.00	-15.49	AVG

Remarks:

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

2.Margin value = Level -Limit value

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Ant. No.		А	Ant 0													
Ant. Pol.		V	/ertical													
Test Mod	de:	Т	X 802.11n(H	IT20) Mode 2	2412MHz											
120.0 dBu	V/m															
110																
100																
90							$\bigcap$	$\square$								
30																
70						FCC Part15 C	Above 1G PK	<u> </u>								
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50						FCC Part15 C	- Above 1G AV	/								
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20																
0.0																
2304.000	2316.00 232	28.00	2340.00 23	52.00 (MHz)	2376.00 2	2388.00 2400.	00 2412.0	10 2424.0								
No.	Frequence (MHz)		Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector								
1 *	2390.00	0	39.36	30.88	70.24	74.00	-3.76	peak								
2	2390.00	0	17.56	30.88	48.44	54.00	-5.56	AVG								

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



Ant. No.			Ant 0										
Ant. Pol	-		Horizon	tal									
Test Mo	de:		TX 802.	11n(H	T20) N	lode 2	2462M	Hz					
120.0 dBu	₩/m												-
110													_
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30 70									FCC	Part15 C	- Above 1G	PK	
50									FCC	Part15 C	- Above 1G	AV	_
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20													_
10													-
0.0	2463.20	2475.20	2487.20	249	9.20	(MHz)	252	3.20	2535.20	2547.	20 255	9.20 25	
	1						1				1	1	
No.	Frequ (Mł		Read (dBu	-	Fac (dB/			vel iV/m)	Lir (dBu		Margi (dB)	Delec	:tor
1	2483	.500	19.7	74	31.	25	50	.99	74.	00	-23.0	1 pea	ık
2	2483	.500	4.9	6	31.	25	36	.21	54.	00	-17.79	9 AV(	G
3	2518	.240	15.2	26	31.	37	46	.63	74.	00	-27.3	7 pea	ık
4 *	2518	240	8.6	3	31.	37	40	.00	54.	00	-14.0	0 AV	G

/111) (u 2.Margin value = Level -Limit value

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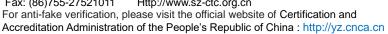
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nt. No.			Ant 0										
nt. Pol.			Vertical										
est Moo	le:		TX 802.′	l1n(⊦	IT20) M	lode 2	462M	Ηz					
20.0 dBu <sup>1</sup>	√/m								1	1			_
10													
0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<u></u>											
	-												
									FCC	Part15 C	- Above 1G	PK	_
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2451.200	2463.20 2	2475.20	2487.20	24	99.20	(MHz)	252	3.20	2535.20	2547.	20 255	9.20	2571.
	Freque	ncv	Read	na	Fac	tor	le	vel	Lir	nit	Margir	<b>n</b>	
No.	(MHz			(dB/			V/m)				Det	ector	
1	2483.5	500	30.8	4	31.25		62	.09	74	00	-11.91	pe	eak
2 *	2483.5	500	14.1	0	31.2	25	45	.35	54	00	-8.65	A	٧G
emarks													

2.Margin value = Level -Limit value

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Ant. N	lo.				A	Ant 0															
Ant. P	ol.				F	loriz	ontal														
Test M	lode	e:			Т	FX 8	02.11	n(⊦	IT40)	Mod	e 2	2422MI	Ηz								
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110																					
100																					
90 -																					
80																		$\neg$	~	$\neg$	
70														1	LL Pa	int 15 L	- Abo	ve 1G	PK	$\exists$	
60															1.						
50															IC Pa		- Abo	ve 16 .	AV	$\dashv$	
40														www.www	2					]	
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20																					
10																					
0.0 22 <b>44</b> .0	000	2264.0	0 4	2284.0	00	220	4.00		24.00	(MH	-1	220	4.00	2384.	00	2404	00	2424	00		4.00
																	1				
No.			que MHz		'		adin BuV	-		actor 3/m)		Le (dBu	vel V/m)	1	Lim 3u∨	it //m)		argin dB)	D	etect	or
1		23	90.0	00		2	4.88		30	.88		55	76	7	74.0	0	-1	8.24		beak	<
2 *	*	23	90.0	00		7	7.60		30	.88		38.	.48	Ę	54.0	0	-1	5.52	. /	٩VG	3
Remar 1.Facto 2.Marg	or (d							B/m	n)+Ca	ble F	ac	tor (dE	s)-Pre-a	amp	lifier	Fac	tor				



nt. No.		Ant 0					
nt. Pol		Vertical					
est Mo	de:	TX 802.11r	n(HT40) Mode 2	2422MHz			
20.0 dBu	V/m						
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0							
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					FCC Part15 C	- Above 1G P	ĸ
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					FCC Part15 C	- Above 1G A	v
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-			gunningen anterna and and	- A State of the S	~		
·							
)							
.0	2262.00 228	2.00 2302.00	2322.00 (MHz)	2362.00	2382.00 2402	.00 2422.0	0 2442.0
No.	Frequence (MHz)	cy Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.00	0 36.21	30.88	67.09	74.00	-6.91	peak
2 *	2390.00	0 17.67	30.88	48.55	54.00	-5.45	AVG
		·					-

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

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Ant. No.			Ant 0										
Ant. Pol			Horizont	al									
Test Mo	de:	•	TX 802.	11n(H	IT40) <b>I</b>	Mode 2	2452MI	Ηz					
20.0 dB	uV/m				î					,			_
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0.0													
2431.000	) 2451.00	2471.00	2491.00	25	11.00	(MHz)	255	1.00	2571.00	2591.	.00 261	1.00 2	631.0
No.	Frequ (Mł	-	Read (dBu	-		ctor /m)		vel V/m)	Lin (dBu'		Margi (dB)	n <sub>Dete</sub>	ctor
1	2483	.500	21.4	5	31	.25	52	70	74.	00	-21.30	) pea	ak
2 *	2483	.500	7.2	9	31	.25	38.	54	54.	00	-15.46	3 AV	G
Remarks	1		,,	-									

2.Margin value = Level -Limit value

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nt. No.		Ant 0					
nt. Pol		Vertical					
est Mo	de:	TX 802.11n(H	HT40) Mode 2	2452MHz			
20.0 dBu	V/m			1			
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0							
	V I						
					FCC Part15 C	- Above 1G Pl	< <u> </u>
		X					
					FCC Part15 C	- Above 1G A	/
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·							
1.0 2433.000	2453.00 2473.0	0 2493.00 25	513.00 (MHz)	2553.00	2573.00 2593.	00 2613.0	0 2633.0
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	2483.500	36.19	31.25	67.44	74.00	-6.56	peak
2	2483.500	15.24	31.25	46.49	54.00	-7.51	AVG
2	2483.500	15.24	31.25	46.49	54.00	-7.51	AVG

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

2.Margin value = Level -Limit value

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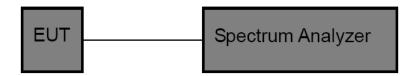
# 3.4. Band Edge and Spurious Emissions (Conducted)

### <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 20 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

### **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 10<sup>th</sup> harmonic. Sweep = auto, Detector function = peak, Trace = max hold.
- 4. Measure and record the results in the test report.

### Test Mode

Please refer to the clause 2.4.

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### **Test Result**

### (1) Band Edge Conducted Test & Conducted Spurious Emissions Test

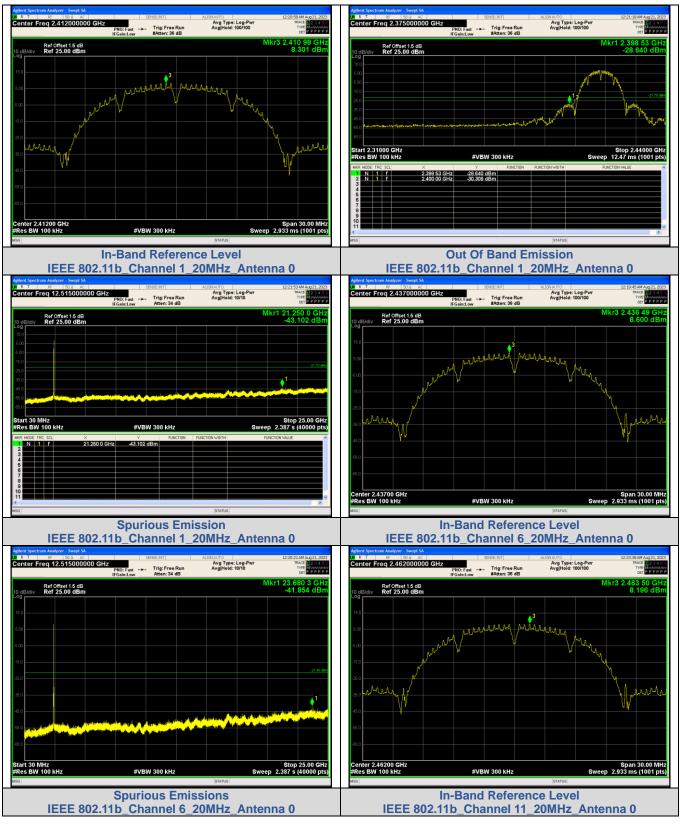
Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Result
		2400.00	-30.309	-21.7	PASS
	1	2398.53	-28.640	-21.7	PASS
IEEE 802.11b		21250.0	-43.102	-21.7	PASS
	6	23680.3	-41.854	-21.4	PASS
	11	2483.50	-47.478	-21.8	PASS
	ĻĻ	24862.0	-43.232	-21.8	PASS
		2400.00	-29.369	-25.6	PASS
	1	2397.49	-28.773	-25.6	PASS
IEEE 802.11g		23273.3	-42.884	-25.6	PASS
1666 002.11g	6	23587.3	-42.924	-25.47	PASS
	11	2483.50	-42.773	-25.83	PASS
		23729.0	-42.766	-25.83	PASS
		2400.00	-33.273	-27.05	PASS
	1	2398.27	-32.356	-27.05	PASS
IEEE 802.11n_20		24812.1	-42.564	-27.05	PASS
	6	5785.73	-41.114	-27.03	PASS
	11	2483.50	-39.384	-26.84	PASS
	11	5784.48	-40.549	-26.84	PASS
		2400.00	-34.251	-29.84	PASS
	3	2398.40	-33.442	-29.84	PASS
IEEE 902 11n 40		5791.30	-42.377	-29.84	PASS
IEEE 802.11n_40	40 6	24842.7	-43.007	-29.69	PASS
	9	2483.50	-42.765	-29.72	PASS
	ש	24840.8	-42.235	-29.72	PASS

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### Test plot as follows:

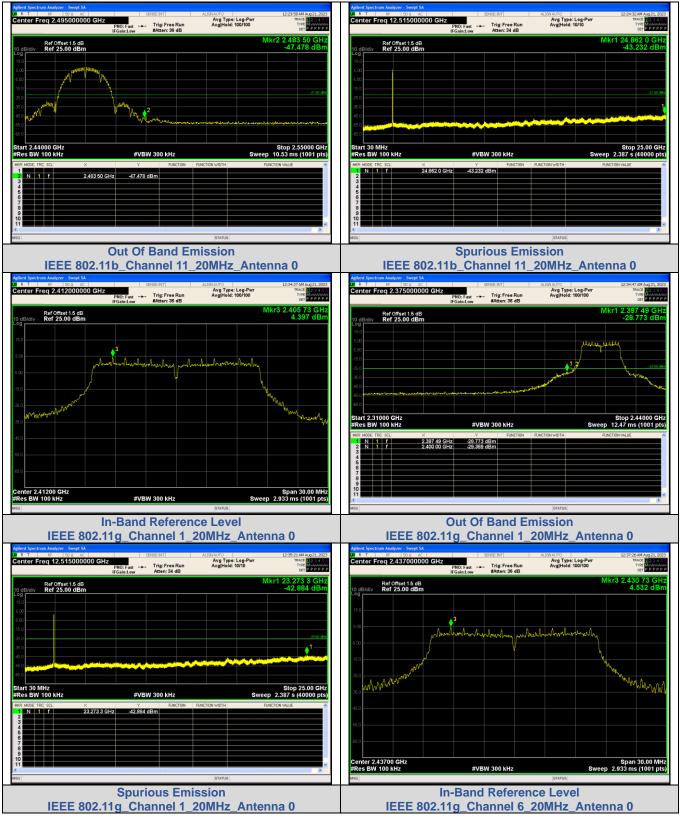


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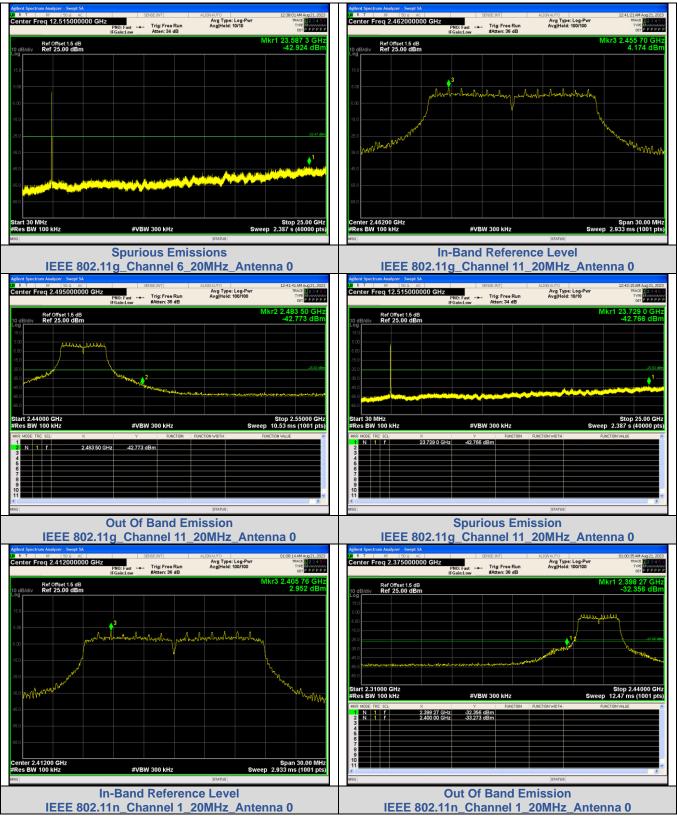




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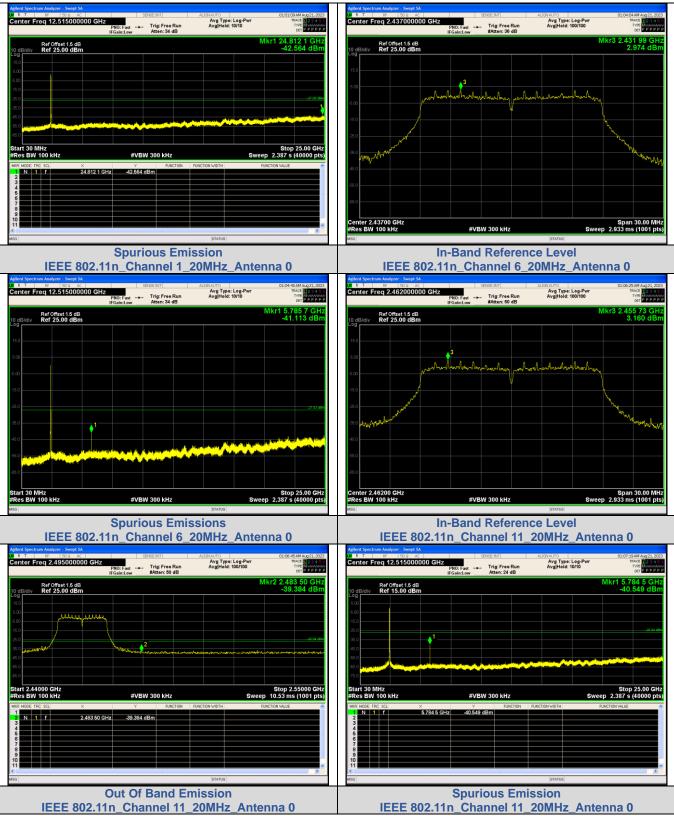




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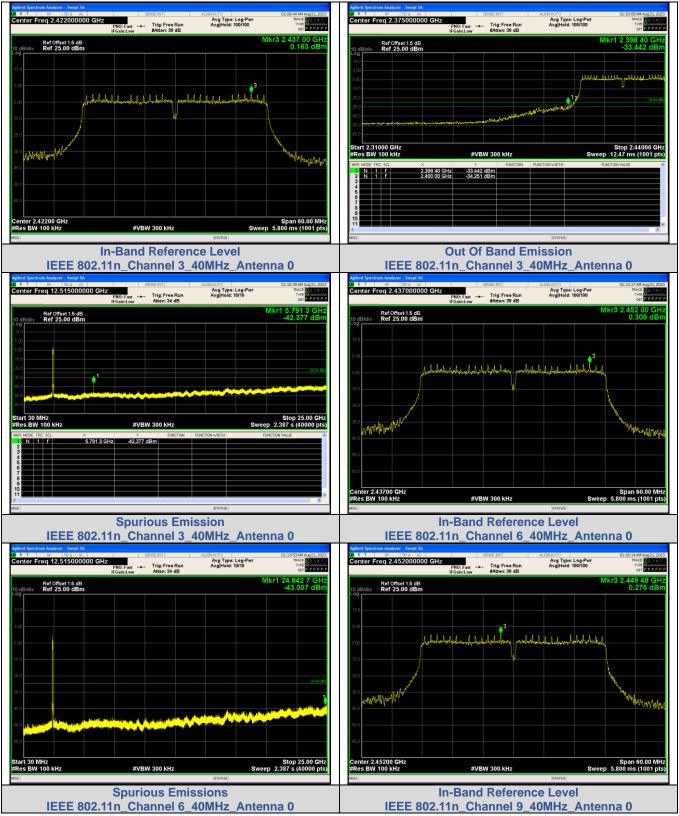




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Appliend Spectrum Analyzer Swept SA         SBREERT         ALSPARTO         01:6:55MArug21, 203           28         T         197         SSS Ac         SBREERT         ALSPARTO         01:6:55MArug21, 203           Center Freq 2.495000000 GHz         FRO: Fast         →         Trig: Free Run         Avg1/edit: 100100         Trig: Free Run           Free Run         Avg1/edit: 100100         Center Freq 2.495000000 GHz         Free Run         Avg1/edit: 100100         Trig: Free Run	Agining Spectrum Analyzer - Swept SA         Spectrum Analyzer - Swept SA         ALSYAUTO         0117/094M Aug21, 2023           If R T         RF         195 9 - XC         Spectrum         Aug17 bye: Log-Pwr         Fixed Reg 2017           Center Freq 12.515000000 GHz         From Fright Sectors         Arg Type: Log-Pwr         Fixed Reg 2017         Fixed Reg 2017           PNO: Fast         +         Trig: Free Run         Avg[Hold: 1010         Fixed Reg 2017
Mkr2 2.483 50 GHz           10 dB/div         Ref 25.00 dBm         -42.765 dBm           10 dB/div         Ref 25.00 dBm         -42.765 dBm           10 dB/div         Ref 25.00 dBm         -42.765 dBm           10 dB/div         Ref 24.000 dBm         -42.765 dBm           10 dB/div         Ref 27 dBm         -307 dBm           10 dB/div         Ref 2         -307 dBm	Ref Offset 1.5 dB         Mkr1 24,840 8 GHz           10 dB/dt/         Ref 23.00 dBm         -42.235 dBm           150
MBR         HODE:         TAC:         X         Y         FUNCTION         FUNCTION	INFR         N         I         F         Z43840 8 GHz         42235 dBm         Panction worth         Panction would           3         1         1         243840 8 GHz         42235 dBm         42235 dBm
Out Of Band Emission IEEE 802.11n_Channel 9_40MHz_Antenna 0	Spurious Emission IEEE 802.11n_Channel 9_40MHz_Antenna 0



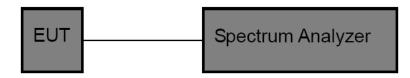
## 3.5. DTS Bandwidth

Limit

### FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(2)

Test Item	Limit	Frequency Range (MHz)	
DTS Bandwidth	≥500 kHz (6dB bandwidth)	2400~2483.5	

### **Test Configuration**



### **Test Procedure**

- 1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- DTS Spectrum Setting: 2.
  - (1) Set RBW = 100 kHz.
  - (2) Set the video bandwidth (VBW)  $\geq$  3 RBW.
  - (3) Detector = Peak.
  - (4) Trace mode = Max hold.
  - (5) Sweep = Auto couple.
  - **OCB Spectrum Setting:**
  - (1) Set RBW =  $1\% \sim 5\%$  occupied bandwidth.
  - (2) Set the video bandwidth (VBW)  $\geq$  3 RBW.
  - (3) Detector = Peak.
  - (4) Trace mode = Max hold.
  - (5) Sweep = Auto couple.

NOTE: The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

### **Test Mode**

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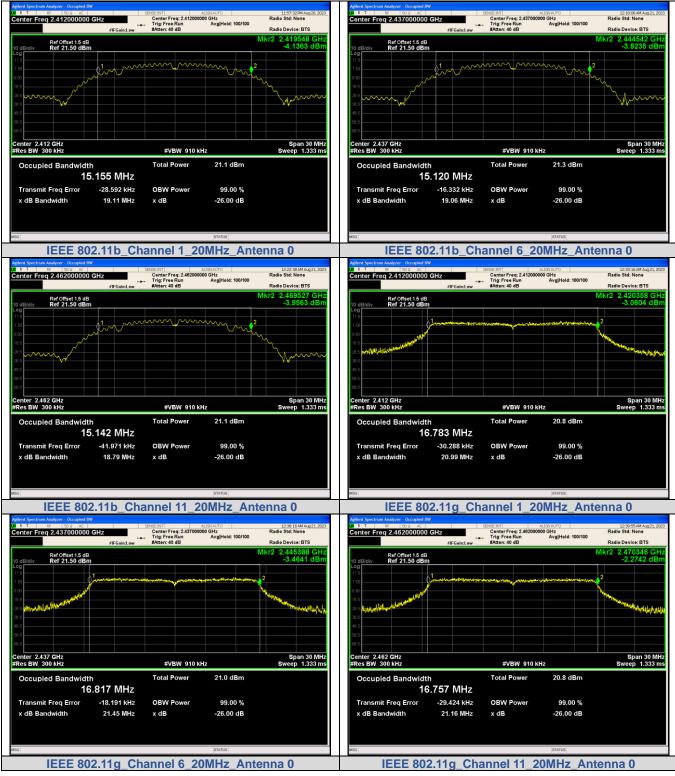
Please refer to the clause 2.4.



### **Test Result**

Mode	Channel	99% BW (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	15.155	10.09	0.5	PASS
	6	15.120	10.07	0.5	PASS
	11	15.142	10.08	0.5	PASS
IEEE 802.11g	1	16.783	16.34	0.5	PASS
	6	16.817	16.32	0.5	PASS
	11	16.757	16.33	0.5	PASS
IEEE 802.11n_20	1	17.801	17.54	0.5	PASS
	6	17.801	17.30	0.5	PASS
	11	17.828	17.28	0.5	PASS
IEEE 802.11n_40	3	36.325	35.79	0.5	PASS
	6	36.377	35.79	0.5	PASS
	9	36.275	35.67	0.5	PASS

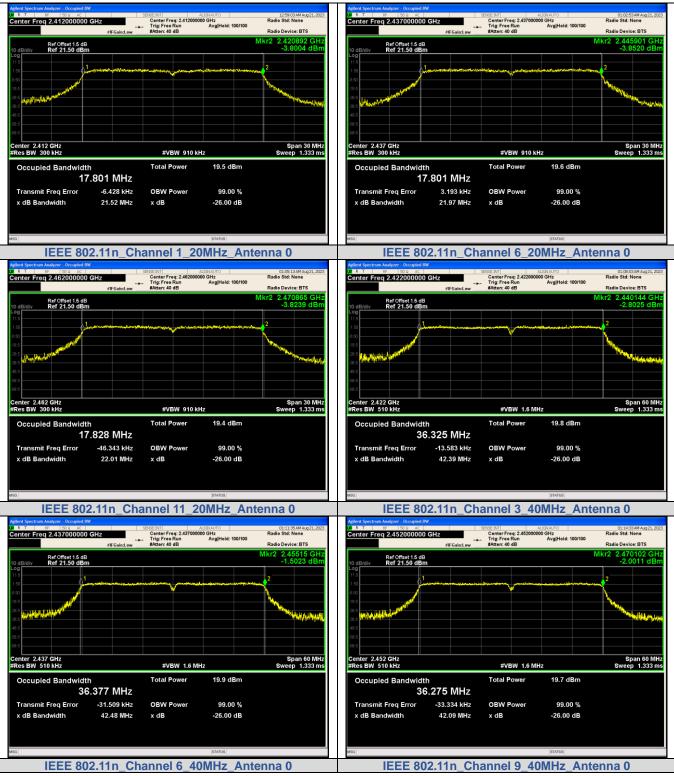




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