

**CTC** Laboratories, Inc.

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-			
TEST REPORT			
Report No:	CTC20231948E01		
FCC ID:	2BEY4-E94		
Applicant:	Kontron d.o.o.		
Address	Ljubljanska cesta 24a, 4000 Kra	nj, Slovenia	
Manufacturer	Kontron d.o.o.		
Address	Ljubljanska cesta 24a, 4000 Kra	nj, Slovenia	
Product Name:	Dual Band GPON ON/ Mesh Rou	iter	
Trade Mark:	Innbox		
Model/Type reference:	E94		
Listed Model(s):	G94		
Standard:	FCC CFR Title 47 Part 15 Subpart C Section 15.247		
Date of receipt of test sample:	Oct. 12, 2023		
Date of testing	Oct. 27, 2023 ~ Dec. 8, 2023		
Date of issue	Feb. 26, 2024		
Result	PASS		
Compiled by:		Lugal (mon	
(Printed name+signature)	Lucy Lan		
Supervised by:		Lucy Lan Zric Zhang	
(Printed name+signature)	Eric Zhang	$\sim$	
Approved by:	Totti Zhao	Johnas	
(Printed name+signature)		/	
Testing Laboratory Name:	CTC Laboratories, Inc.		
Address:	2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China		
This test report may be duplicated co not be reproduced except in full, with it to claim product endorsement by C The test report shall be invalid withou Any objections must be raised to CT not be taken into consideration beyon	out the written approval of our labora TC. The Test Result in the report on ut all the signatures of testing engine C within 15 days since the date whe	atory. The client should not use ly apply to the tested sample. eers, reviewer and approver. n the report is received. It will	



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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.	Date of issue	Description
01	Feb. 26, 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	Curry
Conducted Emission	15.207	Pass	Curry
Conducted Band Edge and Spurious Emissions	15.247(d)	Pass	Curry
Radiated Band Edge and Spurious Emissions	15.205&15.209& 15.247(d)	Pass	Curry
6dB Bandwidth	15.247(a)(2)	Pass	Curry
Conducted Max Output Power	15.247(b)(3)	Pass	Curry
Power Spectral Density	15.247(e)	Pass	Curry
Transmitter Radiated Spurious	15.209&15.247(d)	Pass	Curry

Note:

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.

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## 1.4. Test Facility

## Address of the report laboratory

## CTC Laboratories, Inc.

Add: 2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua 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 radio equipment characteristics; Part 2" 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

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# 2. GENERAL INFORMATION

## 2.1. Client Information

Applicant:	Kontron d.o.o.
Address:	Ljubljanska cesta 24a, 4000 Kranj, Slovenia
Manufacturer:	Kontron d.o.o.
Address:	Ljubljanska cesta 24a, 4000 Kranj, Slovenia
Factory:	Shenzhen Skyworth Digital Technology Co., LTD. Baoan Branch Factory
Address:	2-5F,Integration Multi-Storied Building, Skyworth Science and Technology Industrial Park, Tangtou Industrial Zone, Shiyan Street, Baoan District, Shenzhen city, China.

## 2.2. General Description of EUT

Product Name:	Dual Band GPON ON/ Mesh Router	
Trade Mark:	Innbox	
Model/Type reference:	E94	
Listed Model(s):	G94	
Model Difference:	E94 is a router, G94 is a light cat; G94 uses PON uplink, E94 uses WAN uplink; The appearance of the two products is completely consistent, the internal PCB version and circuit routing are completely consistent, and the WiFi module and antenna are completely consistent. And different is model number and Product Name.	
Power Supply:	DC12V 2A from AC/DC Adapter	
Adapter Model	BY-SKY120200U70L Input: 100-240V~ 50/60Hz 0.7A Output: 12Vdc/2A	
Hardware Version:	1	
Software Version:	/	
2.4G Wi-Fi		
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): 11 channels 802.11n(HT40)/ ax(HE40): 7 channels	
Channel Separation:	5MHz	
Antenna Type:	dipole Antenna	
Antenna Gain:	1.6dBi	

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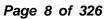




## 2.3. Accessory Equipment Information

Equipment Information			
Name	Model	S/N	Manufacturer
Notebook	ThinkBook 14 G3 ACL	/	Lenovo
Cable Information			
Name	Shielded Type	Ferrite Core	Length
LAN Cable	Unshielded	NO	150cm
Test Software Information			
Name	Version	/	/
QATool	Ulv2.17_DLLv6.00	/	1

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## 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).

Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)
1	NA	NA	dipole Antenna	IPEX	1.6
2	NA	NA	dipole Antenna	IPEX	1.6
3	NA	NA	dipole Antenna	IPEX	1.6
4	NA	NA	dipole Antenna	IPEX	1.6

For 2.4G, this EUT supports MIMO 4X4 with the same antenna gain, and any transmit signals are correlated with each other.

According to KDB 662911 D01, Directional Gain = G<sub>Ant.</sub>+10log(N) dBi, that is Directional Gain=1.6+10log(4)dBi=7.62dBi. So output power limit is 30-7.62+6=28.38dBm, and the power spectral density limit is 8-6.38+6=6.38dBm/3kHz.

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#### 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 the worsted case mode.

Test Mode	Data Rate (worst mode)
802.11b	1Mbps
802.11g	6Mbps
802.11n(HT20)/ (HT40)	HT-MCS8
802.11ax(HE20)/ (HE40)	HE-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.

#### **RU** Configuration:

Operating Mode	Resource Unit	26 Tone (2M)
		0
	Specific Resource Unit	4
		8
	Resource Unit	52 Tone (4M)
		37
802.11ax(HE20)		38
	Specific Resource Unit	39
		40
	Resource Unit	106 Tone (8M)
		53
	Specific Resource Unit	54
	Resource Unit	242 Tone (20M)
	Specific Resource Unit	61
Operating Mode	Resource Unit	26 Tone (2M)
		0
802.11ax(HE40)	Specific Resource Unit	8
		17

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Resource Unit	52 Tone (4M)
	37
	38
	39
	40
Specific Resource Unit	41
	42
	43
	44
Resource Unit	106 Tone (8M)
	53
	54
Specific Resource Unit	55
	56
Resource Unit	242 Tone (20M)
Specific Descurse Unit	61
Specific Resource Unit	62
Resource Unit	484 Tone (40M)
Specific Resource Unit	65



## 2.5. Measurement Instruments List

RF Test System							
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated Until		
1	MXA Signal Analyzer	Keysight	N9020A	MY52091402	Aug. 22, 2024		
2	High and low temperature test chamber	ESPEC	MT3035	/	Mar. 24, 2024		
3	USB Wideband Power Sensor	Keysight	U2021XA	MY55130004	Mar. 14, 2024		
4	USB Wideband Power Sensor	Keysight	U2021XA	MY55130006	Mar. 14, 2024		
5	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

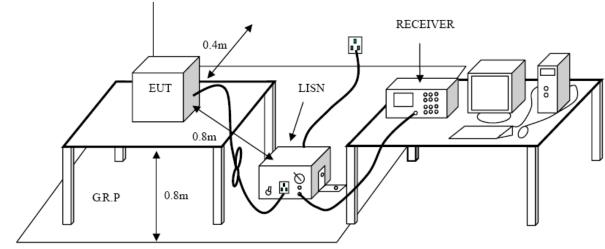
## <u>Limit</u>

## 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.

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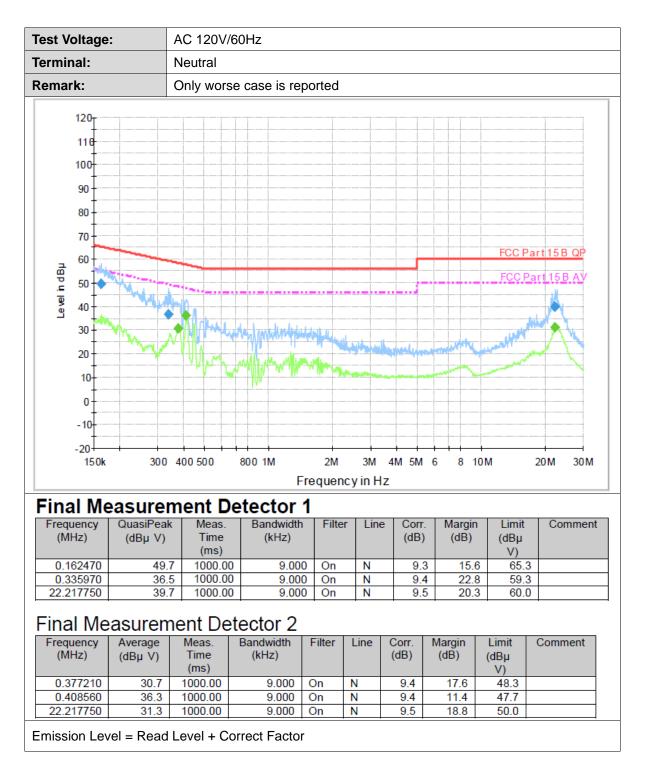
	oltage:		AC 120V/	60Hz							
Terminal: Line											
Remark:			Only worse case is reported								
Level in dBµ	120 110 100 90 80 70 60 50 40 30 20 10 0									art 15 B QP	
	-10 -20	300	400 500	800 1M	2M requen	3M c v in H	4M 5M	6 8 1	0M	20M 30M	
Find		acuro	nont D	etector		.,	-				
ГШС		easurer									
	Hz)	QuasiPeak (dBµ V)	Time (ms)	Bandwidth (kHz)	Filte	r Line	e Corr. (dB)	J J	(dBµ V)	Comment	
(M 0.1	Hz) 68410	(dBµ V) 47.	Time (ms) 5 1000.00	(kHz)	0 On	L1	(dB)	(dB) 4 17.5	(dBµ V) 5 65.0	Comment	
(M 0.1 0.3	Hz) 68410 38660	(dBµ V)	Time (ms) 5 1000.00 9 1000.00	(kHz) 0 9.000 0 9.000	0 On 0 On		(dB) 9.4 9.5	(dB) 4 17.5 5 24.3	(dBµ V) 5 65.0 3 59.2	Comment	
(M 0.1 0.3 22.4 Fina Freq (M	Hz) 68410 38660 85430 al Me uency Hz)	(dBµ V) 47. 34. 38.	Time (ms) 5 1000.00 9 1000.00 5 1000.00	(kHz) 0 9.000 0 9.000	0 On 0 On	L1 L1	(dB)	(dB) 4 17.5 5 24.3	(dBµ V) 5 65.0 3 59.2	Comment	
(M 0.1 0.3 22.4 Fina Freq (M 0.1	Hz) 68410 38660 85430 al Me uency	(dBµ V) 47.3 34.3 38.0 <b>Average</b> (dBµ V)	Time (ms) 5 1000.00 9 1000.00 6 1000.00 6 1000.00 Meas. Time (ms)	(kHz) 0 9.000 0 9.000 0 9.000 0 9.000 etector 2 Bandwidth (kHz)	0 On 0 On 0 On Filter	L1 L1 L1	(dB) 9.2 9.2 9.2 9.2 (dB)	(dB) 4 17.5 5 24.3 5 21.4 Margin (dB)	(dBµ V) 5 65.0 3 59.2 4 60.0 Limit (dBµ V)		

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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:

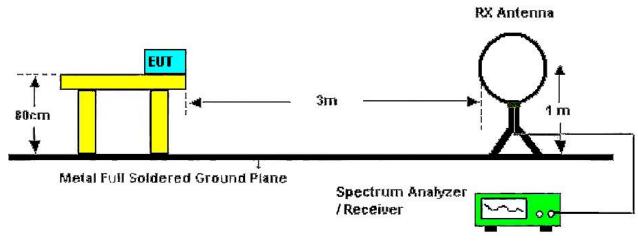
ΞN

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

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

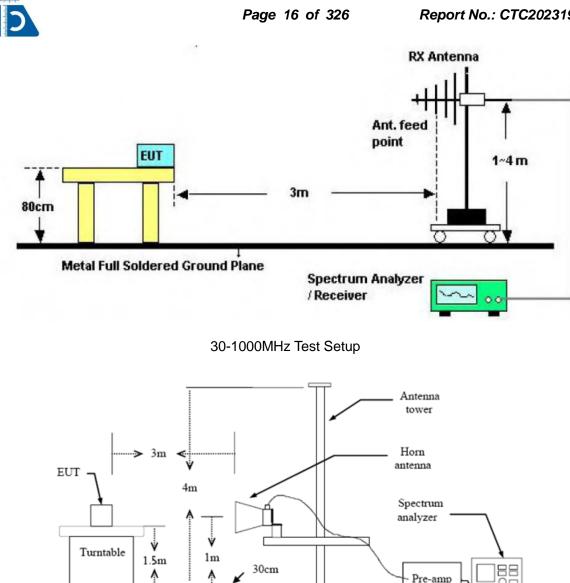
## **Test Configuration**



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.

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

- 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.



			i								
Ant. No. A			Ant 1								
Ant	. Pol.		Horizontal								
Tes	t Moo	de:	TX 802.11b Mode 2412MHz								
Remark:         Only worse case is reported.											
90.0	dBu	lV/m									
80											
70											
60					F	FCC Part15 RE-(	Class B 30-1	000M			
50						dargin -6 dB					
40				2		5	. 6				
30		- MA white		Mark Markenard	man and the second	Althorn	and marker was	all all the second			
20	mpor	- Manner	Mary Mary Mar	- NJow							
10											
0											
-10 30	).000	60	.00	(MHz	) 300	).00		1000.00			
N	lo.	Frequenc (MHz)	y Readir (dBu√	•	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector			
	1	111.8033	3 44.27	7 -16.26	28.01	43.50	-15.49	QP			
	2	185.8466	53.56	6 -17.35	36.21	43.50	-7.29	QP			
	3	233.3767	7 51.29	9 -14.99	36.30	46.00	-9.70	QP			
	4	299.9833	3 51.78	3 -13.47	38.31	46.00	-7.69	QP			
	5	517.9099	42.61	l -8.97	33.64	46.00	-12.36	QP			
	5 *	750.0633	3 44.98	3 -4.87	40.11	46.00	-5.89	QP			

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.		An	t 1					
Ant. Pol.			rtical					
Test Mo	ode: TX 802.11b Mode 2412MHz							
Remark		On	ly worse cas	e is reported	•			
90.0 dBi	uV/m							
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70								
60								
50						CC Part15 RE-C largin -6 dB	Xass B 30-1	ооом Г
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-10 30.000	60	).00		(MHz)	300	.00		1000.00
	_			<b>_</b>		1		
No.	Frequence (MHz)	cy	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	53.6033	3	48.44	-14.19	34.25	40.00	-5.75	QP
2	63.6267	7	48.30	-15.89	32.41	40.00	-7.59	QP
3	110.833	3	53.52	-16.13	37.39	43.50	-6.11	QP
	125.060	0	51.25	-18.54	32.71	43.50	-10.79	QP
4		_ T	42.62	-9.29	34.34	46.00	-11.66	QP
4 5	500.126	7	43.63	-9.29	04.04	40.00	11.00	

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 1
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 *	4823.969	41.28	2.11	43.39	54.00	-10.61	AVG
2	4824.005	46.29	2.11	48.40	74.00	-25.60	peak

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

Ant. No.	Ant 1
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 *	4823.984	38.83	2.11	40.94	54.00	-13.06	AVG
2	4824.024	43.45	2.11	45.56	74.00	-28.44	peak

Remarks:

ΕN

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 1
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	4873.977	45.59	2.18	47.77	74.00	-26.23	peak
2 *	4873.987	39.87	2.18	42.05	54.00	-11.95	AVG

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

2.Margin value = Level -Limit value

Ant. No.	Ant 1
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)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	4873.973	39.35	2.18	41.53	54.00	-12.47	AVG
2	4874.185	43.27	2.18	45.45	74.00	-28.55	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 1
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)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4923.949	42.52	2.26	44.78	54.00	-9.22	AVG
2	4923.972	47.39	2.26	49.65	74.00	-24.35	peak

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

2.Margin value = Level -Limit value

Ant. No.	Ant 1
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)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	4924.002	39.39	2.26	41.65	54.00	-12.35	AVG
2	4924.115	43.30	2.26	45.56	74.00	-28.44	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 1
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 *	4824.280	30.79	2.11	32.90	54.00	-21.10	AVG
2	4824.839	46.04	2.11	48.15	74.00	-25.85	peak

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

Ant. No.	Ant 1
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	4823.565	41.34	2.11	43.45	74.00	-30.55	peak
2 *	4824.115	29.37	2.11	31.48	54.00	-22.52	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 1
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 *	4873.909	24.06	2.18	26.24	54.00	-27.76	AVG
2	4874.988	39.35	2.18	41.53	74.00	-32.47	peak

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

2.Margin value = Level -Limit value

Ant. No.	Ant 1
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	4874.276	39.86	2.18	42.04	74.00	-31.96	peak
2 *	4874.352	28.35	2.18	30.53	54.00	-23.47	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 1
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	4924.581	38.49	2.26	40.75	74.00	-33.25	peak
2 *	4924.756	23.00	2.26	25.26	54.00	-28.74	AVG

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

2.Margin value = Level -Limit value

Ant. No.	Ant 1
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 *	4873.685	26.76	2.18	28.94	54.00	-25.06	AVG
2	4873.933	37.26	2.18	39.44	74.00	-34.56	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 1 + Ant 2
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	4823.807	41.62	2.11	43.73	74.00	-30.27	peak
2 *	4824.039	31.67	2.11	33.78	54.00	-20.22	AVG

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

Ant. No.	Ant 1 + Ant 2
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)		Margin (dB)	Detector
1 *	4824.026	29.92	2.11	32.03	54.00	-21.97	AVG
2	4824.290	38.89	2.11	41.00	74.00	-33.00	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 1 + Ant 2
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	4873.169	44.70	2.18	46.88	74.00	-27.12	peak
2 *	4873.919	31.41	2.18	33.59	54.00	-20.41	AVG

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

2.Margin value = Level -Limit value

Ant. No.	Ant 1 + Ant 2
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)		Margin (dB)	Detector
1	4873.745	38.14	2.18	40.32	74.00	-33.68	peak
2 *	4874.063	28.82	2.18	31.00	54.00	-23.00	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 1 + Ant 2
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 *	4924.042	30.04	2.26	32.30	54.00	-21.70	AVG
2	4924.607	43.21	2.26	45.47	74.00	-28.53	peak

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

2.Margin value = Level -Limit value

Ant. No.	Ant 1 + Ant 2
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	4923.918	38.02	2.26	40.28	74.00	-33.72	peak
2 *	4923.919	27.71	2.26	29.97	54.00	-24.03	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 1 + Ant 2
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)		Margin (dB)	Detector
1	4843.853	41.52	2.13	43.65	74.00	-30.35	peak
2 *	4844.021	30.30	2.13	32.43	54.00	-21.57	AVG

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

Ant. No.	Ant 1 + Ant 2
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	4843.892	40.08	2.13	42.21	74.00	-31.79	peak
2 *	4844.056	31.72	2.13	33. <mark>8</mark> 5	54.00	-20.15	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 1 + Ant 2
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)		Margin (dB)	Detector
1 *	4873.876	27.54	2.18	29.72	54.00	-24.28	AVG
2	4874.133	40.71	2.18	42.89	74.00	-31.11	peak

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

2.Margin value = Level -Limit value

Ant. No.	Ant 1 + Ant 2
Ant. Pol.	Vertical
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)		Margin (dB)	Detector
1 *	4874.070	29.09	2.18	31.27	54.00	-22.73	AVG
2	4874.185	37.99	2.18	40.17	74.00	-33.83	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 1 + Ant 2
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 *	4903.982	28.63	2.22	30.85	54.00	-23.15	AVG
2	4904.092	40.58	2.22	42.80	74.00	-31.20	peak

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

2.Margin value = Level -Limit value

Ant. No.	Ant 1 + Ant 2
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 *	4903.967	31.92	2.22	34.14	54.00	-19.86	AVG
2	4904.000	42.56	2.22	44.78	74.00	-29.22	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 1 + Ant 2
Ant. Pol.	Horizontal
Test Mode:	TX 802.11ax(HE20) Mode 2412MHz 242/61
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	4823.820	42.26	2.11	44.37	74.00	-29.63	peak
2 *	4824.000	32.65	2.11	34.76	54.00	-19.24	AVG

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

Ant. No.	Ant 1 + Ant 2
Ant. Pol.	Vertical
Test Mode:	TX 802.11ax(HE20) Mode 2412MHz 242/61
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 *	4823.999	34.94	2.11	37.05	54.00	-16.95	AVG
2	4824.145	43.97	2.11	46.08	74.00	-27.92	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 1 + Ant 2
Ant. Pol.	Horizontal
Test Mode:	TX 802.11ax(HE20) Mode 2437MHz 242/61
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 *	4874.055	28.68	2.18	30.86	54.00	-23.14	AVG
2	4874.075	40.23	2.18	42.41	74.00	-31.59	peak

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

2.Margin value = Level -Limit value

Ant. No.	Ant 1 + Ant 2
Ant. Pol.	Vertical
Test Mode:	TX 802.11ax(HE20) Mode 2437MHz 242/61
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	4873.735	42.23	2.18	44.41	74.00	-29.59	peak
2 *	4873.997	31.58	2.18	33.76	54.00	-20.24	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 1 + Ant 2
Ant. Pol.	Horizontal
Test Mode:	TX 802.11ax(HE20) Mode 2462MHz 242/61
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	4923.289	39.39	2.25	41.64	74.00	-32.36	peak
2 *	4924.113	27.53	2.26	29.79	54.00	-24.21	AVG

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

2.Margin value = Level -Limit value

Ant. No.	Ant 1 + Ant 2
Ant. Pol.	Vertical
Test Mode:	TX 802.11ax(HE20) Mode 2462MHz 242/61
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	4923.950	41.80	2.26	44.06	74.00	-29.94	peak
2 *	4924.051	30.11	2.26	32.37	54.00	-21.63	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 1 + Ant 2
Ant. Pol.	Horizontal
Test Mode:	TX 802.11ax(HE40) Mode 2422MHz 484/65
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 *	4843.939	31.29	2.13	33.42	54.00	-20.58	AVG
2	4844.201	41.08	2.13	43.21	74.00	-30.79	peak

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

Ant. No.	Ant 1 + Ant 2
Ant. Pol.	Vertical
Test Mode:	TX 802.11ax(HE40) Mode 2422MHz 484/65
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 *	4843.983	34.93	2.13	37.06	54.00	-16.94	AVG
2	4844.272	44.09	2.13	46.22	74.00	-27.78	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 1 + Ant 2
Ant. Pol.	Horizontal
Test Mode:	TX 802.11ax(HE40) Mode 2437MHz 484/65
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	4873.839	40.59	2.18	42.77	74.00	-31.23	peak
2 *	4874.003	29.16	2.18	31.34	54.00	-22.66	AVG

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

Ant. No.	Ant 1 + Ant 2
Ant. Pol.	Vertical
Test Mode:	TX 802.11ax(HE40) Mode 2437MHz 484/65
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 *	4873.937	32.58	2.18	34.76	54.00	-19.24	AVG
2	4874.403	42.98	2.18	45.16	74.00	-28.84	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 1 + Ant 2
Ant. Pol.	Horizontal
Test Mode:	TX 802.11ax(HE40) Mode 2452MHz 484/65
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	4903.777	40.84	2.22	43.06	74.00	-30.94	peak
2 *	4903.963	29.86	2.22	32.08	54.00	-21.92	AVG

Remarks:

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

2.Margin value = Level -Limit value

Ant. No.	Ant 1 + Ant 2
Ant. Pol.	Vertical
Test Mode:	TX 802.11ax(HE40) Mode 2452MHz 484/65
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 *	4904.041	31.46	2.22	33. <mark>6</mark> 8	54.00	-20.32	AVG
2	4904.304	42.57	2.22	44.79	74.00	-29.21	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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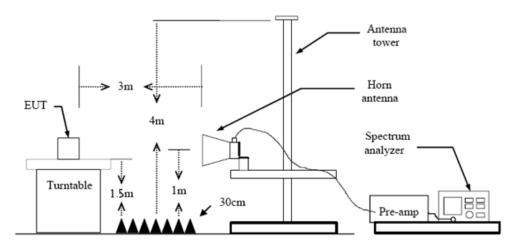
# 3.3. Band Edge Emissions (Radiated)

<u>Limit</u>

### 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.

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.

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Ant.	No.			Ant 1																
Ant.	Pol.			Horiz	zontal															
<b>Fest</b>	Mod	e:		TX 8	02.11	bМ	ode 2	2412N	lHz											
110.0	dBuV	//m								i										
100 -																	10			
90 -																$\left( \right)$	V \	$\left\{ -\right\}$	_	
80 -													FCC F	Part15		/4 Dove 11	G PK	4	_	
70															1					
60 -														Dart15		oove 10	C AV	-	_	
50 -													1 X	ΔΛ					H	
40 -													2	JV	V				¥.	
30 -	the photo in	alapuratin menteration	en an	white	Aneroper	y-de-har	and the second second	englisterne anti-	penderson fo	had a set	ery the following	whether	×*							
20 -																				
10.0	4.000	2316.00	2328.00	224	10.00	231	52.00	(MHz)		2376	5.00	2388	00	240	0.00	24	12.00	1 2	424.0	nr
N	0.	Frequ (MI			adin BuV			ctor 3/m)		Lev Bu	vel V/m)		Lin Bu\			largi (dB)		Deteo	ctor	-
1		2390	.000	1	6.60		31	.31		47.	91	·	74.	00	-2	26.0	9	pea	ak	
2	*	2390	.000	4	4.15		31	.31		35.	46		54.	00	-	18.5	4	AV	G	
	arks:	dB/m) =																		

2.Margin value = Level -Limit value

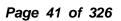
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Ant. No	•		Ant 1										
Ant. Pol	Ι.		Vertio	cal									
Test Mo	de:		TX 8	02.11b N	1ode 2412	MH	lz						
110.0 dB	uV/m												1
100											~~~		-
90												$\rightarrow$	-
80											$\bigwedge$	<u>م</u>	
70									FCC	Part15 C	- Above 1G	PK	
60													
										Part15 C	- Above 1G	AV	
50									X	AN			
40	Murray	term Marries and			en land and a state of the second state of the	mun	henderstander		2 and			¥.	
30													-
20													
10.0 2306.400	0 2318.40	2330.4		2.40 23	54.40 (MH			B. <b>4</b> 0	2390.40	2402	.40 2414		26.4
											I		
No.		luency IHz)		ading BuV)	Facto (dB/m			vel V/m)		nit V/m)	Margir (dB)	Detect	tor
1	239	0.000	1	5.99	31.31		47	.30	74	.00	-26.70	) pea	k
2 *	239	0.000	4	1.39	31.31		35	.70	54	.00	-18.30	) AVC	3
Remarks													







Ant. No.		Ant 1					
Ant. Pol.		Horizontal					
Test Mod	de:	TX 802.11b	Mode 2462MH	Ηz			
110.0 dBu	V/m						
					FCC Part15 C	- Above 1G Pl	ĸ
'O							
50					FCC Part15 C	- Above 1G A	v
io \	1/	$\gamma \dot{x}$					
o	V	K 2					
0		Kunshmede	pentreneralisticitingernenaerisester	understeller und besterneligen under		- Marine Contraction of the Cont	an along have
20							
	2461.40 2473.4	40 2485.40	2497.40 (MHz)	2521.40	2533.40 2545.	40 2557.4	40 2569.4
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
No.				1			Detector peak

2.Margin value = Level -Limit value

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nt. No.		Ant 1						
nt. Pol.		Vertio	cal					
est Moo	le:	TX 8	02.11b N	lode 2462MF	lz			
10.0 dBu <sup>1</sup>	//m			1				
)0 )						FCC Part15 C	- Above 1G P	K
		M	1 X			FCC Part15 C	- Above 1G A	v
		-¥ '	L.S.	onne the second second second	alle shareda a santa da manata da ga sha a santa	ndersentre and an and an and an and an and an		nyutaashin
, 2444.600	2456.60 2468.	60 248	0.60 24	92.60 (MHz)	2516.60	2528.60 2540.	60 2552.	60 2564.0
	Frequency		ading BuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
No.	(MHz)	(a	Duv)	(			1 ° ′	
No.	(MHz) 2483.500		6.50	31.48	47.98	74.00	-26.02	peak



Ant	. No.					Ant 1															
Ant	. Pol.	L.				Horiz	ontal														
Test	t Moc	de:			-	TX 8(	02.11	g N	lode 2	2412N	IHz										
110.0 Г	dBu <sup>1</sup>	V/m							1											_	
100																					
90																	~	m	-		
80																					
														F	CC Par	t15 C	- Above	: 1G PI	ĸ		
70																				$\Box$	
60														1 > F	k CC Par	115 g	- Above	e 16 AV	/	$\mathbb{H}$	
50															- All	Marrie				7	
40													manut	WARK	and a						
30	hang ng n	ernelet a	h	andard	grad-shar		yh	a na	wareneternet	ann an	npara Wein	windo	June -								
20																					
10.0																					
23	04.000	2310	6.00	232	8.00	234	0.00	23	52.00	(MHz		2376.	.00 2	2388.	00	2400.	00	2412.0	)0 ;	2424.0	)0
	lo.	Fr	requ	enc	су	Re	adin	ıg	Fa	ictor		_ev	el		Limi	t	Mar	gin	Det	ector	
	10.		(MF	łz)		(d	BuV	)	(dE	3/m)	(dl	3u\	//m)	(dE	3uV/	′m)	(d		Dell	ector	
	1	2	390.	00	0	2	8.02		31	.31	ł	59.3	33	1	74.0	0	-14	.67	ре	ak	
2	*	2	390.	00	0	1	0.42		31	.31	4	11.	73	Ę	54.0	0	-12	.27	A١	/G	

2.Margin value = Level -Limit value

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Ant. N	lo.			Ant 1										
Ant. P	ol.			Verti	cal									
Test N	lod	e:		TX 8	02.11g N	Mode 24	12MF	Ηz						
110.0	dBuV	/m												_
100														
90 -												$\bigcap$		_
BO										FCC	D-utE C	- Above 1G		_
70										- FUU	Part15 C	- ADOVE TO		
60 -										1 ×	Port 15 0	- Above 1G	AV	Į.
50										2	Part 5.0	- ADOVE TO	AV	Ą
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30	where where the		har for the production of the	<b>₩₩₩₩₩₩₩₩₩₩₩₩₩₩</b> ₩₩₩	4-e	and a second		or the second						_
20														_
10.0 2304.1	000	2316.00	2328.00		0.00 2	352.00	(MHz)		6.00	2388.00	2400.	00 241	2.00 2	424.0
		_									.,			
No			lency Hz)		ading BuV)	Fac (dB/			vel V/m)		nit V/m)	Margii (dB)	Dete	ctor
1		2390	000.	2	8.48	31.	31	59	.79	74	.00	-14.21	l pea	ak
2	*	2390	000.	1	3.69	31.	31	45	.00	54	.00	-9.00	AV	G
Remai				-		-				-		-		



Ant.	. No.			Ant	1										
Ant.	. Pol.			Hor	izonta	I									
Test	t Mod	le:		TX	802.11	lg M	ode 24	62MF	Ηz						
110.0 [	dBu\	//m													1
100															
90															
30	<u> </u>														
80											FCC I	Part15 (	C - Above 1G	РК	
70															
60															
50	J			1 X							FCC	Part15	C - Above 1G	AV	
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30															
20															
10.0	49.400	2461.40	2473	10 24	185.40	240	97.40	(MHz)	252	1.40	2533.40	254	5 40 255	7.40 256	59.40
N	lo.		uency Hz)		eadir dBuV		Fac (dB/		Le <sup>.</sup> (dBu		Lin (dBu)		Margi (dB)	n Detect	or
	1	2483	3.500		16.11		31.4	48	47	.59	74.	00	-26.4	1 peal	ĸ
2	. *	2483	3.500		4.43		31.4	48	35	.91	54.	00	-18.09	AVG	3
	narks:														

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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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nt. No.			Ant 1					
nt. Pol.			Vertical					
est Mod	e:		TX 802.11g N	/lode 2462M⊦	łz			
0.0 dBu¥	//m							
00								
						FCC Part15 C	- ADOVE TG PI	<u> </u>
Y			1 X					
		Mary Mary Mary				FCC Part15 C	- Above 1G A	/
			12					
			May Martin La 1					
			12 may have all and the second	White and the second	han purchase frequencies of the second s	funderuna	anthropographic and the second second	and the state of the
.0 2450.600	2462.60 2	474.60	2486.60 24	198.60 (MHz)	2522.60	2534.60 2546.	60 2558.6	50 2570.0
No.	Frequer (MHz		Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit	Margin (dB)	Detector
1	2483.5		29.65	31.48	61.13	74.00	-12.87	peak
	2.00.0	00	13.01	31.48	44.49	54.00	-9.51	AVG



Ant. No.		Ant 1 + Ant 2	2				
Ant. Pol		Horizontal					
Test Mo	de:	TX 802.11n(	HT20) Mode 2	2412MHz			
10.0 dBu	W/m						
00							
90							
80						$\bigcap$	
					FCC Part15 C	- Above 1G P	ĸ
<i>'</i> 0							
50					JFCC Part15 C	- Above 1G A	<b>√</b> +
50					*		
io					2 mars		
:0	e for an also a featured in a star and a second	a Anna an Anna Carana an Anna an Anna an Anna an Anna An An Anna Anna	for a second and the second	menter and the settlement			
20							
	2316.70 2328	.70 2340.70 2	352.70 (MHz)	2376.70	2388.70 2400	.70 2412.	70 2424.7
No.	Frequency (MHz)	y Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
110.			31.31	54.10	74.00	-19.90	peak
1	2390.000	22.79	01.01	01.10			



nt. No	).		Ant 1	+ Ant 2	2								
Ant. Po	I.		Verti	cal									
est Mo	ode:		TX 8	02.11n(	(HT20)	Mode 2	2412M	Hz					
10.0 dE	¦uV/m												
00													
o													
o											C v		
o 🕅									FCC	Part15 C	- Above 1G	РК	
o													
										Part15 C	- Above 1G	AV	$\square$
0													
0	hand a second way of	en of the second second	have and a started	and and a state of the state of	undruder	w-actions by south	umunterry	anoradore at	mandenne	www			~
0													
o													
0.0 2304.60	0 2316.60	2328.6	0 234	0.60 2	2352.60	(MHz)	237	6.60	2388.60	2400.	60 241	2.60	2424.6
No.		Juency		ading		actor		vel	Lin		Margi	n <sub>Det</sub>	ector
		1Hz)	· ·	BuV)	· ·	3/m)		V/m)			• •	_	
1		0.000	_	9.45		1.31	<u> </u>	.76	74.		-23.24	_ <u> </u>	eak
2 *	239	0.000	6	6.95	31	1.31	38	.26	54.	00	-15.74	1   A'	٧G





nt. No.		Ant 1 +	Ant 2					
nt. Pol		Horizon	ital					
est Mo	de:	TX 802.	.11n(HT20) Mo	ode 2462MH	z			
0.0 dBu	W/m							
0								
						ECC Part15 (	C - Above 1G	PK
•						FCC Part15 (	C - Above 1G	AV
•		1 X						
		mar 2	nomena	an a	Maquana	hannan	un martine	Munuhand
1   1.0								
2450.400	2462.40 2474.	40 2486.40	0 2498.40 (	[MHz] 2522.	40 25	34.40 254	6.40 2558	3.40 2570.
No.	Frequency (MHz)	y Read (dBu				Limit dBuV/m	Margir (dB)	Detecto
No. 1		dBu	uV) (dB/r	m) (dBu\	//m) (			Delecto

2.Margin value = Level -Limit value



	Vertical TX 802.11n(H	IT20) Mode 2	2462MHz			
	TX 802.11n(F	IT20) Mode 2	2462MHz		Ť	
					1	
~						
~						
				FCC Part15 C	- Above 1G P	ĸ
	1 X			FCC Part15 C	- Above 1G A	×
m	han in the second se	no and the second second second	hand the second second	with and the second second second	Haveler agenting and	Romburghten
101 10 2172 4		07.40 (411.)	2521.40		40 2557	40 2569.4
101.10 2113.1	<u> </u>					10 2303.
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
2483.500	21.40	31.48	52.88	74.00	-21.12	peak
2483.500	5.54	31.48	37.02	54.00	-16.98	AVG
F	461.40 2473.4 Frequency (MHz) 2483.500	Frequency (MHz) 2483.500 21.40	A61.40         2473.40         2485.40         2497.40         (MHz)           Frequency (MHz)         Reading (dBuV)         Factor (dB/m)           2483.500         21.40         31.48	Reading (MHz)         Factor (dB/m)         Level (dBuV/m)           2483.500         21.40         31.48         52.88	x         x	2       3       40       2       2       5       7       40       2       5       7       40       2       5       7       40       2       5       7       40       2       5       7       40       2       5       7       40       2       5       7       40       2       5       7       40       2       5       7       40       2       5       7       40       2       5       7       40

(ub)-rie ampimer 2.Margin value = Level -Limit value

CTC Laboratories, Inc. 2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 中国国家认证认可监督管理委员会



nt. No.		Ant 1 + Ant 2					
nt. Pol		Horizontal					
est Mo	de:	TX 802.11n(H	T40) Mode 2	2422MHz			
0.0 dBu	V/m						
00							
,							
,							
,					FCC Part15 C	- Above 1G Pl	<u>&lt;                                      </u>
,							
,				1 ×	CC Part15 C	- Above 1G A	<u> </u>
				34	ww		Y
nhumanhar I	ym	how when he had a straight the second s	ayottakana kasalina di salah	CHARLEN CONTRACTOR CONTRACTOR			
).0							
2294.500	2309.50 2324.50	2339.50 23	54.50 (MHz)	2384.50	2399.50 2414.	.50 2429.5	50 2444.
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m	Limit ) (dBuV/m)	Margin (dB)	Detector
1	2390.000	23.13	31.31	54.44	74.00	-19.56	peak
<u> </u>	2390.000	8.64	31.31	39.95	54.00	-14.05	AVG

2.Margin value = Level -Limit value



Ant. No.			Ant 1	+ Ant 2									
Ant. Pol			Vertio	cal									
lest Mo	de:		TX 8	02.11n(H	HT40) I	Mode 2	422M	Hz					
10.0 dBu	JV/m												1
00													-
0													-
									Fee	Part15 C	- Above 1G		-
70										Partip L	- ADOVE TU		
:0													
50								×	FCC	Part15 C	- Above 1G	≜v \{	
10								2	M				ł
•**•••• 30	enst-reduced of	wayaa daga da ahaya ka sa	putrinitaria	yahati yayanti yayini dag	en finteren alterte	/2.5-44. <sup>4</sup> 5.2-4444	d-4999-407-2017 1987-4						
20													
0.0													
2296.950	) 2311.95	2326.95	234	1.95 23	356.95	(MHz)	238	6.95 2	2401.95	2416.	95 2431	.95 244	<b>4</b> 6.9
No.		uency Hz)		eading BuV)	1	ctor 8/m)		vel IV/m)		nit V/m)	Margir (dB)	Detect	tor
1	2390	0.000	1	9.05	31	.31	50	.36	74	.00	-23.64	pea	k
2 *	2390	0.000	6	5.34	31	.31	37	.65	54	.00	-16.35	5 AVC	З
Remarks													





		Ant '	1 + Ant 2						
nt. Pol.		Horiz	zontal						
est Mod	le:	TX 8	02.11n(H	T40) Mode	2452M	Hz			
10.0 dBu¥	//m		· · ·	,					
00									
0		~~_							
0							FCC Part15 (	C - Above 1G P	ĸ
o 📃 🗌									
o			1 X				FCC Part15 (	C - Above 1G A	v
o 📕									
o			When the start	Lout mandmand and	Nahalhannkalanak		www.www.wheelow.org		mundahara
0									
o									
0.0 2428.000	2443.00 2458		73.00 24	88.00 (MHz)		8.00 2	2533.00 2544	8.00 2563.0	00 2578.
	Frequenc	V R	eading	Factor	le	vel	Limit	Margin	
	(MHz)		dBuV)	(dB/m)		iV/m)		-	Detecto
No.	<u> </u>					50	74.00	-19.41	peak
No. 1	2483.500	) 2	23.11	31.48	54	.59	74.00	-19.41	pour

2.Margin value = Level -Limit value



00 00 00 00 00 00 00 00 00 00	nt. No.		Ant 1 + Ant 2					
10.0         dBuV/m           00         FCC Part15 C - Above 1G PK           00         FCC Part15 C - Above 1G PK           00         Image: Comparison of the second seco	nt. Pol.		Vertical					
Image: No.         Frequency (MHz)         Reading (dBuV)         Factor (dB/m)         Level (dBuV/m)         Limit (dBuV/m)         Margin (dB)         Detector           1         2483.500         22.63         31.48         54.11         74.00         -19.89         peak	est Moo	de:	TX 802.11n(	HT40) Mode 2	2452MHz			
No.       Frequency (MHz)       Reading (dBuV)       Factor (dBuV)       Level (dBuV/m)       Limit (dBuV/m)       Margin (dBuV/m)       Detector         1       2483.500       22.63       31.48       54.11       74.00       -19.89       peak	10.0 dBu	V/m						
No.       Frequency (MHz)       Reading (dBuV)       Factor (dBuV)       Level (dBuV/m)       Limit (dBuV/m)       Margin (dBuV/m)       Detector         1       2483.500       22.63       31.48       54.11       74.00       -19.89       peak	00							
No.         Frequency (MHz)         Reading (dBuV)         Factor (dBm)         Level (dBuV/m)         Limit (dBuV/m)         Margin (dBuV/m)         Detector (dB)           1         2483.500         22.63         31.48         54.11         74.00         -19.89         peak								
No.         Frequency (MHz)         Reading (dBuV)         Factor (dB/m)         Level (dBuV/m)         Limit (dBuV/m)         Margin (dBuV/m)         Detector (dBuV/m)           1         2483.500         22.63         31.48         54.11         74.00         -19.89         peak	0							
No.       Frequency (MHz)       Reading (dBuV)       Factor (dB/m)       Level (dBuV/m)       Limit (dBuV/m)       Margin (dBuV/m)       Detector (dBuV/m)         1       2483.500       22.63       31.48       54.11       74.00       -19.89       peak	0					ECC Part15 C	- Aboye 16 Pl	<u> </u>
Image: No.       Frequency (MHz)       Reading (dBuV)       Factor (dB/m)       Level (dBuV/m)       Limit (dBuV/m)       Margin (dB)       Detector         1       2483.500       22.63       31.48       54.11       74.00       -19.89       peak	o 🗖							<u>`</u>
Image: No.       Frequency (MHz)       Reading (dBuV)       Factor (dB/m)       Level (dBuV/m)       Limit (dBuV/m)       Margin (dB)       Detector         1       2488.00       22.63       31.48       54.11       74.00       -19.89       peak	n							
0       2 <th2< th=""> <th2< th=""> <th2< th=""></th2<></th2<></th2<>	·		1			FCC Part15 C	- Above 1G AV	
0       0								
No.       Frequency (MHz)       Reading (dBuV)       Factor (dB/m)       Level (dBuV/m)       Limit (dBuV/m)       Margin (dBuV/m)       Detector         1       2483.500       22.63       31.48       54.11       74.00       -19.89       peak	o 🎢 🗌		Murring 2	mander and the second	worksonworkersteinete	and descendent and second	Munded work more	hundren
0.0       2428.000       2443.00       2458.00       2473.00       2488.00       (MHz)       2518.00       2533.00       2548.00       2563.00       2578.00         No.       Frequency (MHz)       Reading (dBuV)       Factor (dB/m)       Level (dBuV/m)       Limit (dBuV/m)       Margin (dB)       Detector         1       2483.500       22.63       31.48       54.11       74.00       -19.89       peak	o							
0.0       2428.000       2443.00       2458.00       2473.00       2488.00       (MHz)       2518.00       2533.00       2548.00       2563.00       2578.00         No.       Frequency (MHz)       Reading (dBuV)       Factor (dB/m)       Level (dBuV/m)       Limit (dBuV/m)       Margin (dB)       Detector         1       2483.500       22.63       31.48       54.11       74.00       -19.89       peak	o 📃							
No.Frequency (MHz)Reading (dBuV)Factor (dB/m)Level (dBuV/m)Limit (dBuV/m)Margin (dB)Detector12483.50022.6331.4854.1174.00-19.89peak	0.0							
No.         (MHz)         (dBuV)         (dB/m)         (dBuV/m)         (dBuV/m)         (dB)         Detector           1         2483.500         22.63         31.48         54.11         74.00         -19.89         peak	2428.000	2443.00 2458.0	0 2473.00 2	488.00 (MHz)	2518.00	2533.00 2548.	00 2563.0	JO 2578.C
No.         (MHz)         (dBuV)         (dB/m)         (dBuV/m)         (dBuV/m)         (dB)         Detector           1         2483.500         22.63         31.48         54.11         74.00         -19.89         peak		Frequency	Reading	Factor		Limit	Margin	
	No.				1			Detector
2 * 2483.500 6.32 31.48 37.80 54.00 -16.20 AVG	1	2483.500	22.63	31.48	54.11	74.00	-19.89	peak
	2 *	2483.500	6.32	31.48	37.80	54.00	-16.20	AVG
				1		1	<u> </u>	L
	Remarks						-	

D)<sup>.</sup> μ (1 2.Margin value = Level -Limit value



nt. No.			Ant 1 + A	nt 2									
nt. Pol.			Horizonta	I									
est Moc	le:		TX 802.1	lax(l	HE20) Mo	ode	2412N	1Hz 26	6/0				
0.0 dBu\	//m		i		1								_
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0											**		
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									FCC	Part15 C	- Above 1G	PK	
									FCC	Part15 C	- Above 1G	AV	4
									1 X				
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.0													
2304.000	2316.00	2328.00	2340.00	23	52.00 (M	Hz)	237	6.00	2388.00	2400	.00 241	2.00 2	424.0
No.		uency Hz)	Readir (dBu\		Facto (dB/m		Le <sup>v</sup> (dBu		Lin (dBu)		Margi (dB)	n <sub>Detec</sub>	cto
1	2390	000.	14.25	5	31.31		45.	56	74.	00	-28.44	1 pea	ak
2 *	2390	.000	6.21		31.31		37.	52	54.	00	-16.48	3 AV	G

2.Margin value = Level -Limit value





nt. No	-	A	nt 1 + Ant 2					
nt. Po	Ι.	V	ertical					
est Mo	de:	Т	X 802.11ax(	HE20) Mode	2412MHz 26	/0		
20.0 dB	uV/m							
10								
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,						FCC Part15 C	- Above 1G Pl	
,								
						FCC Part15 C	- Above 1G AV	$ \rightarrow $
						1 2 1		
wyorkinde	un and an	- manahasha	www.www.also.en.	in an an and the second	annashaharananno	- Server Mutur		N
2306.40	0 2318.40 2330	).40	2342.40 23	54.40 (MHz)	2378.40	2390.40 2402.	40 2414.4	10 2426.4
No.	Frequenc (MHz)	у	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	5	14.89	31.31	46.20	74.00	-27.80	peak
2 *	2390.000	5	5.82	31.31	37.13	54.00	-16.87	AVG





nt. No.			Ant 1 + Ar	nt 2								
nt. Pol.			Horizontal									
est Moo	de:		TX 802.11	ax(HE	20) Mc	ode	2412N	1Hz 52	/37			
0.0 dBu	V/m											
0												
0												
											AA	
												m
									FCC	Part15 C	- Above 16	РК
									FCC	Part15 C	- Above 16	AV
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.0												
2304.000	2316.00	2328.00	2340.00	2352.0	)0 (MI	Hz)	237	6.00	2388.00	2400	.00 241	2.00 2424
No.		uency Hz)	Readin (dBuV		Facto (dB/m			vel V/m)	Lir (dBu		Margi (dB)	
1	2390	0.000	14.96		31.31		46.	.27	74	.00	-27.7	3 peak
2 *	2390	000.0	6.44		31.31		37.	.75	54	.00	-16.2	5 AVG

2.Margin value = Level -Limit value



nt. No	).		Ant 1 + Ant 2									
nt. Po	I.		Vertical									
est Mo	ode:		TX 802.11ax(	HE20) Mode	2412MHz 52	/37						
20.0 dE	uV/m	1										
o 📃												
							$\gamma$					
							$\sim$					
						FCC Part15 C	- Above 1G Pl					
						FCC Part15 C	- Above 1G AV	, <u> </u>				
						1 X		N				
maria	www.www.harthorner	nyanadaha	summer de solo andre	hardower had been a second	and the second of the second	and have been						
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) 1.0												
2306.40	0 2318.40	2330.40	2342.40 23	54.40 (MHz)	2378.40	2390.40 2402.	40 2414.4	0 2426.4				
No.	Freque (MH		Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector				
1	2390.	·	16.45	31.31	47.76	74.00	-26.24	peak				
2 *	2390.	000	6.67	31.31	37.98	54.00	-16.02	AVG				
			11		1	1	1	1				





Ant. No.			Ant 1 + A	nt 2									
Ant. Pol			Horizonta	l									
Test Mo	de:		TX 802.11ax(HE20) Mode 2412MHz 106/53										
120.0 dB	uV/m		1										
110													
100													
30											m		
												m	
80									FCC F	Part15 C	- Above 1G	PK	
70													$\uparrow$
60									FCC F	Part15 C	- Above 1G	AV	<u>t</u>
50									1 X				
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30													_
20													_
10													_
0.0 2304.000	) 2316.00	2328.00	2340.00	226	52.00 (M	Hz)	237	<u> </u>	2388.00	2400	00 241	2.00	2424.00
No.		uency Hz)	Readii (dBu\		Facto (dB/m		Lev (dBu		Lin (dBu)		Margi (dB)	n <sub>De</sub>	tector
1	2390	000.	15.48	5	31.31		46.	76	74.	00	-27.24	1 p	eak
2 *	2390	000.	6.30		31.31		37.	.61	54.	00	-16.39	9 A	VG

2.Margin value = Level -Limit value



nt. No.			Ant 1 + Ant	2				
nt. Pol			Vertical					
est Mo	de:		TX 802.11a	x(HE20) Mode	2412MHz 10	6/53		
20.0 dBu	ıV/m							
10								
						r		
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,						FCC Part15 C	- Above 1G Pl	
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						FCC Part15 C	- Above 1G A	<u> </u>
						X 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		- m
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5.0								
2306.400	) 2318.40	2330.40	2342.40	2354.40 (MHz)	2378.40	2390.40 2402.	.40 2414.4	10 2426.4
No.		uency Hz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	· ·	0.000	15.29	31.31	46.60	74.00	-27.40	peak
2 *		0.000	5.64	31.31	36.95	54.00	-17.05	AVG
						1		





nt. No.			Ant 1 + A	nt 2									
nt. Pol.			Horizonta	al									
est Mod	le:	•	TX 802.1	1ax(⊢	IE20) M	ode	2412N	1Hz 24	2/61				
20.0 dBu\	//m		1										
0													
											men	~~~~~	
									FCC	Part15 C	- Above 1	G PK	
									FCC	Part15 Q	- Above 1	G AV	-H-
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		ed a subsection math	ne was a set on a set of the set	hunder	and mentioned		whether when the		mun 2 hun	en de la companya de			
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.0													
2304.000	2316.00	2328.00	2340.00	235	2.00 (M	Hz)	237	6.00	2388.00	2400	.00 24	12.00	2424.0
No.	Frequ (MI	Jency Hz)	Readii (dBu\		Facto (dB/m		Le <sup>v</sup> (dBu	vel V/m)	Lir (dBu		Marg (dB)		etector
1	2390	0.000	17.54	4	31.31		48.	.85	74	.00	-25.1	5 p	eak
2 *	2390	000.	9.18		31.31		40.	.49	54	.00	-13.5	51 A	VG

2.Margin value = Level -Limit value



nt. No				Ant 1	+ Ant 2									
nt. Pol				Vertic	al									
est Mo	de:		-	TX 80	)2.11ax(	HE20)	Mode	2412	/Hz 24	2/61				
20.0 dB	ıV/m													
10														
00														
o 📃											~	mon		
										FCC Pa	rt15 C	- Above 1G	PK	
										FCC Pa	n15 C	- Above 1G	AV	
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).0 2306.400	) 2318.4	0 23	30.40	2342	240 23	54.40	(MHz)	237	8.40	2390.40	2402	.40 2414	4.40	2426.
								1		1		1		
No.		equen MHz)			ading BuV)		ctor 3/m)		vel IV/m)	Lim (dBuV		Margir (dB)	Det	tector
1	23	90.00	00	17	7.97	31	.31	49	.28	74.0	0	-24.72	2 p	eak
2 *	23	90.00	00	7	.66	31	.31	38	.97	54.0	0	-15.03	3 A	VG





nt. No.		Ant 1 + Ant	2				
nt. Pol.		Horizontal					
est Moo	de:	TX 802.11a	x(HE20) Mode	2462MHz 26	/8		
0.0 dBu\	∀/m	1		i		1	
0							
0							
5	m						
$\square$					FCC Part15 C	- Above 1G Pl	ĸ
	<b>\</b>				FCC D-utF C	41	
	n	`₩₩ <u>,</u>			FCC Part15 C	- ADOVE TU A	<b>/</b>
[		1					
		Zannamerane	-hold of the second second	when the second s	engthernalistic descent	and a beat the magnetic	Manun
.0 2450.000	2462.00 2474.	00 2486.00	2498.00 (MHz)	2522.00	2534.00 2546.	00 2558.0	0 2570.
No.	Frequency (MHz)	/ Reading (dBuV)	g Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	18.23	31.48	49.71	74.00	-24.29	peak
2 *	2483.500	5.63	31.48	37.11	54.00	-16.89	AVG

2.Margin value = Level -Limit value



nt. No.		Ant 1 + Ant 2										
nt. Pol.		Vertical										
est Mod	de:	TX 802.11ax(HE20) Mode 2462MHz 26/8										
20.0 dBu <sup>3</sup>	V/m											
0												
0												
	- $1$											
					FCC Part15 C	- Above 1G PK						
·					FCC Part15 C	- Above 16 AV	,					
	N.	1 2										
4												
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.0												
2450.000	2462.00 2474.0	0 2486.00 24	498.00 (MHz)	2522.00	2534.00 2546.	00 2558.0	0 2570.0					
No.	Frequency (MHz)	<pre>/ Reading (dBuV)</pre>	Factor (dB/m)		Limit (dBuV/m)	Margin (dB)	Detecto					
1	2483.500	15.15	31.48	46.63	74.00	(ub) -27.37	noak					
	2483.500	5.30	31.48			-27.37	peak AVG					
2 *		6.20	1 31 / 8	36.78	54.00	-17.22	$\Delta V/(-)$					

CTC Laboratories, Inc.

可监督管理委员会 中国国家认 EN ιĿi

2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 中国国家认证认可监督管理委员会 Accreditation Administration of the People's Republic of China : http://yz.cnca.cn



	Horizontal TX 802.11a	x(HE20) Mode	2462MHz 52	/40												
	TX 802.11a	x(HE20) Mode	2462MHz 52	/40												
<u> </u>						TX 802.11ax(HE20) Mode 2462MHz 52/40										
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$\mathcal{A}^{-}$																
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				FCC Part15 C	- Above 1G P	ĸ										
				FCC Part15 C	- Above 1G A	<b>v</b>										
Which	1 X															
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			Anne and a second s	eneral information of dependence												
0 2474.00	2486.00	2498.00 (MHz)	2522.00	2534.00 2546.	.00 2558.0	00 2570.										
quency MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector										
83.500	16.51	31.48	47.99	74.00	-26.01	peak										
83.500	6.95	31.48	38.43	54.00	-15.57	AVG										
8	IHz) 3.500	IHz) (dBuV) 3.500 16.51	IHz) (dBuV) (dB/m) 3.500 16.51 31.48	IHz) (dBuV) (dB/m) (dBuV/m) 3.500 16.51 31.48 47.99	IHz)(dBuV)(dB/m)(dBuV/m)(dBuV/m)3.50016.5131.4847.9974.00	IHz)(dBuV)(dB/m)(dBuV/m)(dBuV/m)(dB)3.50016.5131.4847.9974.00-26.01										

2.Margin value = Level -Limit value



nt. No.		Ant 1 + Ant 2					
nt. Pol.		Vertical					
est Moo	de:	TX 802.11ax	(HE20) Mode	2462MHz 52	/40		
0.0 dBu	V/m						
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2450.000	2462.00 2474.0	00 2486.00 24	498.00 (MHz)	2522.00	2534.00 2546.	00 2558.	00 2570.
No.	Frequency (MHz)	<ul><li>Reading (dBuV)</li></ul>	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	17.34	31.48	48.82	74.00	-25.18	peak
2 *	2483.500	4.60	31.48	36.08	54.00	-17.92	AVG





nt. No.		4	Ant 1 + Ant 2										
nt. Pol.			Horizontal										
est Mod	e:	•	TX 802.11ax(HE20) Mode 2462MHz 106/54										
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2450.000	2462.00 24	474.00	2486.00 24	498.00 (MHz)	2522.00	2534.00 2546.	.00 2558.	00 2570.0					
No.	Frequer	псу	Reading	Factor	Level	Limit	Margin	Detector					
NO.	(MHz	)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Delector					
1	2483.5	00	17.81	31.48	49.29	74.00	-24.71	peak					
2 *	2483.50	00	5.73	31.48	37.21	54.00	-16.79	AVG					

2.Margin value = Level -Limit value



nt. No.		Ant 1 + Ant	2				
nt. Pol.		Vertical					
est Moo	le:	TX 802.11a	x(HE20) Mode	2462MHz 10	6/54		
0.0 dBu <sup>1</sup>	√/m					1	
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2450.000	2462.00 2474.	00 2486.00	2498.00 (MHz)	2522.00	2534.00 2546.	00 2558.0	0 2570.
No.	Frequency (MHz)	y Reading (dBuV)	Factor (dB/m)	Level	Limit (dBuV/m)	Margin (dB)	Detecto
1	2483.500	. ,	31.48	50.03	74.00	-23.97	peak
2 *	2483.500		31.48	36.26	54.00	-17.74	AVG

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Ant. No.		Ant 1 + Ant	2				
Ant. Pol		Horizontal					
est Mo	de:	TX 802.11a	x(HE20) Mode	2462MHz 24	2/61		
20.0 dBu	₩/m			i			
					FCC Part15 C	- Above 16 P	
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		MANNA 1			FCC Part15 C	- Above 1G A	<u>/                                     </u>
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2450.000 No.	Frequency (MHz)		2498.00 (MHz)	Level	Limit (dBuV/m)	Margin	Detector
1	2483.500	20.01	31.48	51.49	74.00	-22.51	noak
2 *	2483.500	10.26	31.48	41.74	54.00	-22.51	peak AVG
<u> </u>	2463.500	10.26	31.46	41.74	04.00	-12.20	AVG

2.Margin value = Level -Limit value





Ant. No. Ant. Pol.		Ant 1 + Ant 2 Vertical							
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					FCC Part15 C	- Above 1G P	ĸ		
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.0 2450.000	2462.00 2474.0	0 2486.00 24	498.00 (MHz)	2522.00	2534.00 2546.	00 2558.0	0 2570.0		
No.	Frequency		Factor		Limit	Margin	Detector		
	(MHz)	(dBuV)	(dB/m)		(dBuV/m)				
1	2483.500	16.97	31.48	48.45	74.00	-25.55	peak		
2 *	2483.500	6.06	31.48	37.54	54.00	-16.46	AVG		
-	2100.000	0.00			01.00	10.40			

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Ant. No.			Ant 1 + Ant 2							
Ant. Pol.			Horizontal							
est Mo	de:		TX 802.11ax(HE40) Mode 2422MHz 26/0							
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).0 2294.500	) 2309.50	2324.50	2339.50	2354.50 (MHz)	2384.50	2399.50 2414.	50 2429.	50 2444.5		
				_						
No.		lency Hz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector		
1	2390	000.	15.47	31.31	46.78	74.00	-27.22	peak		
2 *	2390	.000.	5.55	31.31	36.86	54.00	-17.14	AVG		
	-				-		-	-		

2.Margin value = Level -Limit value





Ant. No. Ant. Pol.		Ant 1 + Ant 2 Vertical							
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2292.250	) 2307.25 2322.3	25 2337.25 23	52.25 (MHz)	2382.25	2397.25 2412.	25 2427.2	25 2442.3		
Na	Frequency	Reading	Factor	Level	Limit	Margin	Datasta		
No.	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)		Detector		
1	2390.000	17.69	31.31	49.00	74.00	-25.00	peak		
2 *	2390.000	6.44	31.31	37.75	54.00	-16.25	AVG		





nt. No		Ant 1 + Ant 2					
nt. Po	l.	Horizontal					
est Mo	de:	TX 802.11ax(	HE40) Mode	2422MHz 52	/37		
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.0 2294.500	0 2309.50 2324.5	0 2339.50 23	54.50 (MHz)	2384.50	2399.50 2414.	50 2429.5	50 2444.
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detecto
1	2390.000	15.81	31.31	47.12	74.00	-26.88	peak
2 *	2390.000	5.99	31.31	37.30	54.00	-16.70	AVG
			-		-	-	-

2.Margin value = Level -Limit value





nt. No	•		Ant 1 + Ar	nt 2							
nt. Po	Ι.		Vertical								
st Mo	de:		TX 802.11	ax(HE4	0) Mode	2422N	/Hz 52	/37			
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0 2292.25	0 2307.25	2322.25	2337.25	2352.25	(MHz)	238	2.25	2397.25	2412.3	25 2427.2	25 2442.
	Freg	uency	Readir	na F	actor	Le	vel	Limit		Margin	
No.		Hz)	(dBuV	<b>U</b>	dB/m)	1		(dBuV/		(dB)	Detector
1	2390	0.000	14.75	3	31.31	46	.06	74.00	)	-27.94	peak
2 *	2390	0.000	6.35	3	31.31	37	.66	54.00	)	-16.34	AVG
				-							

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



nt. No.			Ant 1 + Ant 2					
nt. Pol.			Horizontal					
est Mod	de:	-	TX 802.11ax	(HE40) Mode	2422MHz 10	6/53		
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.0 2294.500	2309.50	2324.50	2339.50 2	354.50 (MHz)	2384.50	2399.50 2414.	50 2429.5	50 2444.5
	Frog	Jency	Reading	Factor	Level	Limit	Margin	
No.		Hz)	(dBuV)	(dB/m)		(dBuV/m)	(dB)	Detector
1	2390	000.	16.05	31.31	47.36	74.00	-26.64	peak
2 *	2390	000.	6.98	31.31	38.29	54.00	-15.71	AVG
			-	•		-	-	-

2.Margin value = Level -Limit value



nt. No.			Ant 1 + Ant	: 2									
nt. Pol	-		Vertical										
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2292.250	2307.25	2322.25	2337.25	2352.25 (MHz	2382.25	2397.25 2412.	25 2427.2	25 2442.2					
No.		uency Hz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector					
1	2390	0.000	14.38	31.31	45.69	74.00	-28.31	peak					
2 *	2390	0.000	5.90	31.31	37.21	54.00	-16.79	AVG					
emarks													

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



nt. No			Ant 1 + Ant	t 2				
nt. Po	l.		Horizontal					
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).0 2294.50	0 2309.50	2324.50	2339.50	2354.50 (MHz)	2384.50	2399.50 2414.	50 2429.5	50 2444.5
No.		lency Hz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390	000.	17.03	31.31	48.34	74.00	-25.66	peak
2 *	2390	000.	6.76	31.31	38.07	54.00	-15.93	AVG
2	2000		0.70	01.01	00.07	04.00	-10.00	

2.Margin value = Level -Limit value



nt. No	•		Ant 1 + Ant 2					
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st Mo	de:		TX 802.11ax	(HE40) Mode	2422MHz 24	2/61		
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2292.25	0 2307.25	2322.25	2337.25 23	352.25 (MHz)	2382.25	2397.25 2412.	25 2427.2	2442.3
No.		uency Hz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390	0.000	17.02	31.31	48.33	74.00	-25.67	peak
2 *	2390	0.000	5.93	31.31	37.24	54.00	-16.76	AVG

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





nt. No.			Ant 1 + Ant 2					
nt. Pol	-		Horizontal					
est Mo	de:		TX 802.11ax(	HE40) Mode	2422MHz 48	4/65		
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					1. X	FCC Part15 C	- Above 1G A	
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.0 2294.500	) 2309.50	2324.50	2339.50 23	54.50 (MHz)	2384.50	2399.50 2414.	50 2429.5	50 2444.
	Frequ	lency	Reading	Factor	Level	Limit	Margin	
No.	(MI		(dBuV)	(dB/m)		(dBuV/m)	(dB)	Detector
1	2390	.000	19.71	31.31	51.02	74.00	-22.98	peak
2 *	2390	.000	7.75	31.31	39.06	54.00	-14.94	AVG
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2.Margin value = Level -Limit value



nt. No.			Ant 1 + .	Ant 2									
nt. Pol.			Vertical										
est Moo	de:		TX 802.11ax(HE40) Mode 2422MHz 484/65										
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.0 2292.250	2307.25	2322.25	2337.25	23	52.25	(MHz)	238	2.25	2397.25	2412	.25 242	7.25 24	42.4
	Frequ	ency	Read	ling	Fac	tor	Le	vel	Li	mit	Margir		
2292.250 No.	Frequ (MF	ency Iz)	Read (dBu	ling ıV)	Fac (dB/I	tor m)	Le (dBu	vel V/m)	Li (dBu	mit ıV/m)	Margin (dB)	n Detec	ctor
2292.250	Frequ	ency Iz) .000	Read	ling ıV) ∂7	Fac	tor m) 31	Le (dBu 46	vel	Li (dBu 74	mit	Margir	n <sub>Detec</sub> 2 pea	tor ak

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

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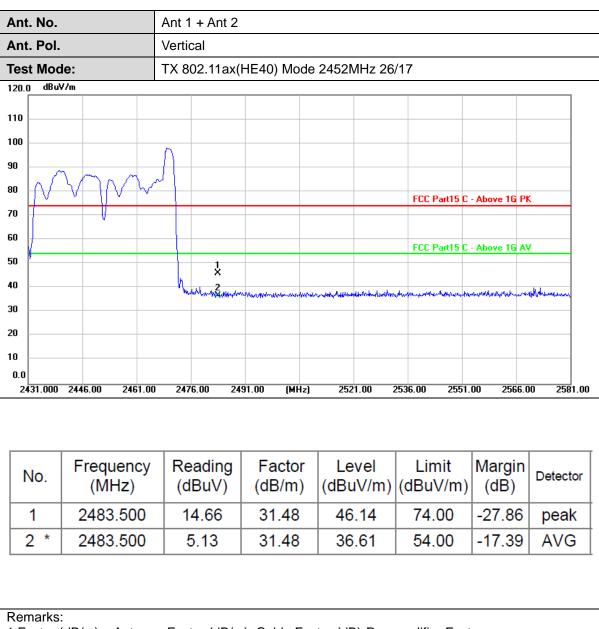
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Ant. No.		Ant	1 + Ant 2									
Ant. Pol.		Horiz	zontal									
est Moc	de:	TX 8	TX 802.11ax(HE40) Mode 2452MHz 26/17									
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).0 2428.750	2443.75 2458.	75 24	73.75 24	188.75 (I	(Hz)	251	8.75	2533.75	2548	75 256	3.75 2578	27
No.	Frequency (MHz)		eading IBuV)	Facto (dB/n		Lev (dBu		Lin (dBu\		Margir (dB)	Detecto	or
1	2483.500	1	9.70	31.4	8	51.	.18	74.	00	-22.82	2 peak	
2 *	2483.500	1	8.04	31.4	В	39.	.52	54.	00	-14.48	3 AVG	j

2.Margin value = Level -Limit value





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

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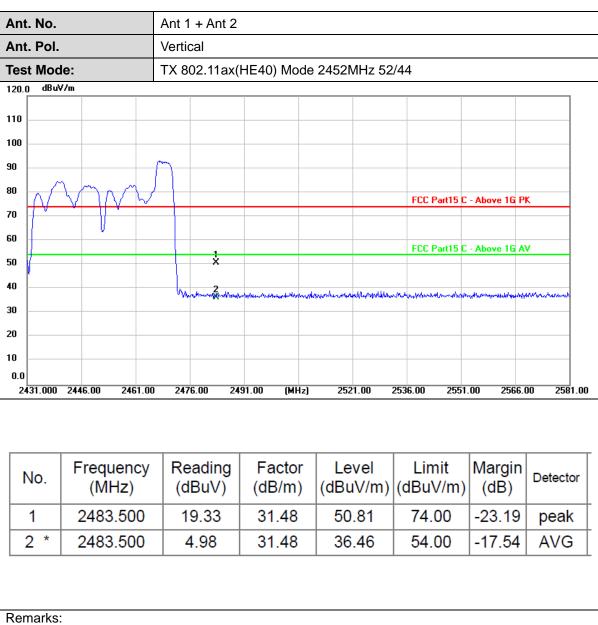


nt. No.		Ant 1 + Ant 2					
nt. Pol.		Horizontal					
est Mod	le:	TX 802.11ax	(HE40) Mode	2452MHz 52	/44		
:0.0 dBu\	√/m						
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		M					
	$\sim$	$\sim$					
					FCC Part15 C	Above 1G PK	
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.u 2428.750	2443.75 2458.7	75 2473.75 24	488.75 (MHz)	2518.75 2	2533.75 2548.	75 2563.7	5 2578.3
No.	Frequency		Factor	Level	Limit	Margin	Detector
NO.	(MHz)	(dBuV)	(dB/m)		(dBuV/m)		
1	2483.500	16.03	31.48	47.51	74.00	-26.49	peak
2 *	2483.500	7.50	31.48	38.98	54.00	-15.02	AVG

2.Margin value = Level -Limit value







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

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



nt. No.		Ant 1 + Ant 2										
nt. Pol.		Horizontal										
est Mod	de:	TX 802.11ax(HE40) Mode 2452MHz 106/56										
20.0 dBu	V/m											
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).0 2428.750	2443.75 2458.	75 2473.75 24	488.75 (MHz)	2518.75	2533.75 2548.	75 2563.	75 2578.7					
No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector					
INO.	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Delector					
1	2483.500	15.35	31.48	46.83	74.00	-27.17	peak					
2 *	2483.500	6.11	31.48	37.59	54.00	-16.41	AVG					
	-			-			-					

2.Margin value = Level -Limit value





nt. No.		Ant 1 + Ant 2					
nt. Pol.		Vertical					
est Moo	de:	TX 802.11ax	(HE40) Mode	2452MHz 10	6/56		
0.0 dBu	V/m						
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.0							
2431.000	2446.00 2461.	00 2476.00 2	491.00 (MHz)	2521.00	2536.00 2551.	.00 2566.	00 2581.0
No.	Frequency (MHz)	/ Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	14.99	31.48	46.47	74.00	-27.53	peak
2 *	2483.500	5.23	31.48	36.71	54.00	-17.29	AVG
		·		-			

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





nt. No.			Ant 1 + Ant	2				
nt. Pol.			Horizontal					
est Mod	de:		TX 802.11a	x(HE40) Mode	2452MHz 24	2/62		
20.0 dBu	V/m		i i		1			
10								
		-						
	m							
	)   \					FCC Part15 C	- Above 1G I	ж
$\square$								
$\square$						FCC Part15 C	- Above 16	w
A			1				Above ru	
1			Amm 2	Manufa Marina da Manufa M		k		dt ut a
				MANAK-MANINANA-HUWUNAANA-MU	-a	1844 March Anna Constant and Anna Const	*******	have a second that the second s
.0								
2428.750	2443.75	2458.75	2473.75	2488.75 (MHz)	2518.75	2533.75 2548	.75 2563	.75 2578.
No.		iency Hz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margir (dB)	Detecto
1	2483	.500	14.68	31.48	46.16	74.00	-27.84	peak
2 *	2483	.500	7.16	31.48	38.64	54.00	-15.36	AVG
2 *	2483	0.500	/.16	31.48	38.64	54.00	-15.36	AVC

2.Margin value = Level -Limit value



nt. No.			Ant 1 + Ai	nt 2									
nt. Pol.			Vertical										
est Mo	de:	-	TX 802.11	lax(l	HE40) Mo	de 2	2452N	/Hz 24	2/62				
20.0 dBu	V/m									1			_
10													
		manon	~										
	2m								FCC	Part15 C	- Above 1G	PK	
	ν												
									FCC	Part15 C	- Above 1G	AV	
			1										
Į					nanakulantipu				Juli -			urtin Lin	
			a sale always	gan	n-mineral and pro	*****	staden the AN	\#\$4#*####### <b>*</b> *##*	24811 <b>24</b> -41-484-41	(*************************************	anan karanan karana	* from the second	****
2431.000	2446.00	2461.00	2476.00	24	91.00 (MH	lz)	252	1.00	2536.00	2551.	.00 256	6.00	2581.
No.	Freque (MHz	-	Readir (dBu\	-	Facto (dB/m)			vel V/m)		nit V/m)	Margii (dB)	n <sub>Det</sub>	ecto
1	2483.5	'	13.93	<u> </u>	31.48	-	45			.00	-28.59	eq (	eak
2 *	2483.5		5.03		31.48	+	36	.51		.00	-17.49	_ ·	VG

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 1 + Ant	2				
Ant. Pol			Horizontal					
Fest Mo	de:		TX 802.11a	x(HE40) Mode	2452MHz 48	4/65		
20.0 dBu	W/m							
10								
00								
	many	manne						
			- And					
						FCC Part15 C	- Above 1G P	ĸ
0								
)								
, <del> </del>			1			FCC Part15 C	- Above 1G A	v
ייא נ			White	have the state of				
			. 4 64	and a stand and a stand and a stand and a stand	manuna hall rection	on and the second s	how and the states of the stat	harmhan
)								
)								
0								
D.O 2428.750	2443.75	2458.75	2473.75	2488.75 (MHz)	2518.75	2533.75 2548.	.75 2563.7	75 2578.7
	-							
No.	Freque (MHz		Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.5	500	17.39	31.48	48.87	74.00	-25.13	peak
2 *	2483.5	500	9.88	31.48	41.36	54.00	-12.64	AVG

2.Margin value = Level -Limit value

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nt. No.			Ant 1 + A	nt 2									
nt. Pol.			Vertical										
est Moo	le:	-	TX 802.1	1ax(	HE40)	Mode	2452	ЛНz 48	4/65				
:0.0 dBu	//m				1			1					
0													
- Summer	mananan	man	2										
									FCC	Part15 C	- Above 1G	PK	
									FCC	Part15 C	- Above 1G	AV	
			ut l	1 X									
			Myrrow	2 Жилтени		Mary Burthe	e Marsulan	Aunter	a changed and services as	Munom	angeneration Agen	aborthe-babara	h Mily
·													
ı													
.0													
2431.000	2446.00	2461.00	2476.00	24	91.00	(MHz)	252	1.00	2536.00	2551	.00 256	6.00	2581.
No.		uency Hz)	Readi (dBu)	<u> </u>		ctor /m)		vel iV/m)	Lir (dBu		Margi (dB)	n <sub>De</sub>	tector
1	2483	3.500	15.4	7	31	.48	46	.95	74.	00	-27.0	5 p	eak
2 *	2483	8.500	6.05	5	31	.48	37	.53	54.	00	-16.47	7 A	VG

2.Margin value = Level -Limit value

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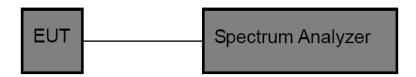
# 3.4. Band Edge and Spurious Emissions (Conducted)

# <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.



#### (1) Band Edge Conducted Test

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
	Ant1	Low	2412	9.34	-39.37	≤-20.66	PASS
	Ant2	Low	2412	9.33	-38.85	≤-20.67	PASS
	Ant3	Low	2412	9.61	-38.67	≤-20.39	PASS
11B	Ant4	Low	2412	10.43	-39.23	≤-19.57	PASS
IID	Ant1	High	2462	11.84	-46.88	≤-18.16	PASS
	Ant2	High	2462	9.27	-54.43	≤-20.73	PASS
	Ant3	High	2462	9.22	-53.49	≤-20.78	PASS
	Ant4	High	2462	10.17	-51.26	≤-19.83	PASS
	Ant1	Low	2412	7.10	-34.99	≤-22.9	PASS
	Ant2	Low	2412	6.59	-35.13	≤-23.41	PASS
	Ant3	Low	2412	3.98	-35.9	≤-26.02	PASS
11G	Ant4	Low	2412	6.80	-35.67	≤-23.2	PASS
110	Ant1	High	2462	6.15	-48.08	≤-23.85	PASS
	Ant2	High	2462	5.79	-50.16	≤-24.21	PASS
	Ant3	High	2462	6.76	-48.86	≤-23.24	PASS
	Ant4	High	2462	3.79	-49.78	≤-26.21	PASS
	Ant1	Low	2412	-0.98	-32.9	≤-30.98	PASS
	Ant2	Low	2412	-0.56	-37.35	≤-30.56	PASS
	Ant3	Low	2412	-2.47	-44.18	≤-32.47	PASS
11N20MIMO	Ant4	Low	2412	-0.71	-45.59	≤-30.71	PASS
	Ant1	High	2462	0.61	-53.17	≤-29.39	PASS
	Ant2	High	2462	-1.88	-53.81	≤-31.88	PASS
	Ant3	High	2462	-0.13	-40.74	≤-30.13	PASS
	Ant4	High	2462	-2.28	-53.82	≤-32.28	PASS
	Ant1	Low	2422	-4.53	-44.04	≤-34.53	PASS
	Ant2	Low	2422	-2.07	-38.21	≤-32.07	PASS
	Ant3	Low	2422	-2.38	-40.66	≤-32.38	PASS
11N40MIMO	Ant4	Low	2422	-2.41	-42.74	≤-32.41	PASS
	Ant1	High	2452	-3.42	-51.08	≤-33.42	PASS
	Ant2	High	2452	-2.52	-34.22	≤-32.52	PASS
	Ant3	High	2452	-3.18	-46.03	≤-33.18	PASS
	Ant4	High	2452	-2.40	-45.54	≤-32.4	PASS



TastMasta	A	Obblana		Ru	Ru	RefLevel	Result	Limit	) (a nali a t
TestMode	Antenna	ChName	Freq(MHz)	Size	Index	[dBm]	[dBm]	[dBm]	Verdict
				26Tone	RU0	3.21	-48.68	≤-26.79	PASS
	Ant1	Low	2412	52Tone	RU37	3.10	-33.95	≤-26.9	PASS
		LOW	2412	106Tone	RU53	0.57	-47.58	≤-29.43	PASS
				242Tone	RU61	-1.01	-47.08	≤-31.01	PASS
				26Tone	RU0	4.34	-35.26	≤-25.66	PASS
	Ant2	Low	2412	52Tone	RU37	3.82	-45.35	≤-26.18	PASS
	74112	Low	2712	106Tone	RU53	-0.12	-47.07	≤-30.12	PASS
				242Tone	RU61	-1.18	-47.2	≤-31.18	PASS
				26Tone	RU0	3.73	-37.6	≤-26.27	PASS
	Ant3	Low	2412	52Tone	RU37	2.11	-44.42	≤-27.89	PASS
				106Tone	RU53	-0.30	-48.46	≤-30.3	PASS
				242Tone	RU61	-1.40	-46.96	≤-31.4	PASS
				26Tone	RU0	4.35	-48.33	≤-25.65	PASS
	Ant4	Low	2412	52Tone	RU37	2.80	-46.32	≤-27.2	PASS
				106Tone 242Tone	RU53	0.06	-49.85	≤-29.94 < 28.70	PASS
11AX20MIMO				242101e 26Tone	RU61	1.21	-44.05	≤-28.79 < 25.11	PASS
				52Tone	RU8 RU40	4.89 1.78	-53.58 -54.13	≤-25.11 ≤-28.22	PASS PASS
	Ant1	High	2462	106Tone	RU54	-0.17	-54.13		PASS
				242Tone	RU61	-0.17 -1.51	-54.66	≤-30.17 ≤-31.51	PASS
				2421011e 26Tone	RU8	2.54	-39.2	≤-31.51 ≤-27.46	PASS
				52Tone	RU40	0.21	-47.97	<u>≤-27.40</u> ≤-29.79	PASS
	Ant2	High	2462	106Tone	RU54	-1.42	-54.96	<u>≤-29.79</u> ≤-31.42	PASS
				242Tone	RU61	-1.39	-49.65	<u>≤-31.39</u>	PASS
				26Tone	RU8	2.57	-44.48	≤-27.43	PASS
				52Tone	RU40	1.59	-51.67	≤-28.41	PASS
	Ant3	High	2462	106Tone	RU54	-1.52	-55.84	≤-31.52	PASS
				242Tone	RU61	-1.17	-51.85	≤-31.17	PASS
				26Tone	RU8	3.34	-35.88	≤-26.66	PASS
			0.400	52Tone	RU40	0.87	-42.37	≤-29.13	PASS
	Ant4	High	2462	106Tone	RU54	-1.56	-46.82	≤-31.56	PASS
				242Tone	RU61	-1.38	-38.43	≤-31.38	PASS
				26Tone	RU0	4.58	-35.44	≤-25.42	PASS
				52Tone	RU37	1.60	-47.18	≤-28.4	PASS
	Ant1	Low	2422	106Tone	RU53	-1.01	-32.93	≤-31.01	PASS
				242Tone	RU61	-3.81	-38.1	≤-33.81	PASS
				484Tone	RU65	-3.09	-48.55	≤-33.09	PASS
				26Tone	RU0	4.74	-41.11	≤-25.26	PASS
				52Tone	RU37	2.34	-35.86	≤-27.66	PASS
	Ant2	Low	2422	106Tone	RU53	-1.14	-42.6	≤-31.14	PASS
				242Tone	RU61	-4.36	-47.59	≤-34.36	PASS
				484Tone	RU65	-3.20	-43.92	≤-33.2	PASS
				26Tone	RU0	5.77	-42	≤-24.23	PASS
		_		52Tone	RU37	2.49	-44.22	≤-27.51	PASS
	Ant3	Low	2422	106Tone	RU53	-0.55	-45.34	≤-30.55	PASS
				242Tone	RU61	-4.33	-49.43	≤-34.33	PASS
11AX40MIMO				484Tone	RU65	-3.22	-47.57	≤-33.22	PASS
				26Tone	RU0	3.57	-48.59	≤-26.43	PASS
			0.400	52Tone	RU37	1.05	-48.98	≤-28.95	PASS
	Ant4	Low	2422	106Tone	RU53	-2.35	-50.29	≤-32.35	PASS
				242Tone	RU61	-3.34	-48.12	≤-33.34	PASS
				484Tone	RU65	-3.08	-48.81	≤-33.08	PASS
				26Tone	RU17	4.71	-30.24	≤-25.29	PASS
	A n+1	Lliab	2452	52Tone	RU44	0.59	-55.17	≤-29.41 < 20.89	PASS
	Ant1	High	2452	106Tone	RU56	-0.88	-54.58	≤-30.88 ≤ 22.0	PASS
				242Tone	RU62	-3.90	-54.94	≤-33.9 ≤ 22.74	PASS
				484Tone	RU65	-2.74	-53.63	≤-32.74 ≤-27.66	PASS
				26Tone 52Tone	RU17 RU44	2.34	-36.92 -41.75	≤-27.66 ≤-31.08	PASS PASS
	Ant2	High	2452	106Tone	RU44 RU56	-1.08 -1.79	-41.75	≤-31.08 ≤-31.79	PASS
		i ligiti	2452	242Tone	RU62	-1.79	-46.4	≤-31.79 ≤-34.45	PASS
l				484Tone	RU65	-4.45	-40.4	≤-33.32	PASS
			I		11000	0.02	-10.01	- 00.02	1700

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				26Tone	RU17	3.82	-38.31	≤-26.18	PASS
				52Tone	RU44	-0.48	-44.62	≤-30.48	PASS
	Ant3	High	2452	106Tone	RU56	-1.90	-42.44	≤-31.9	PASS
		_		242Tone	RU62	-3.58	-49.84	≤-33.58	PASS
				484Tone	RU65	-3.88	-43.88	≤-33.88	PASS
				26Tone	RU17	4.39	-49.51	≤-25.61	PASS
				52Tone	RU44	1.01	-32.96	≤-28.99	PASS
	Ant4 Hig	High 245	2452	106Tone	RU56	-0.11	-31.47	≤-30.11	PASS
				242Tone	RU62	-3.44	-33.64	≤-33.44	PASS
				484Tone	RU65	-3.06	-54.7	≤-33.06	PASS

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#### (2) **Conducted Spurious Emissions Test**

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
			Reference	10.38	10.38		PASS
	Ant1	2412	30~1000	10.38	-57.3	≤-19.62	PASS
	,	22	1000~26500	10.38	-43.99	<u>≤-19.62</u>	PASS
			Reference	10.24	10.24		PASS
	Ant2	2412	30~1000	10.24	-57.15	≤-19.76	PASS
	7 1112	2112	1000~26500	10.24	-49.48	≤-19.76	PASS
			Reference	9.26	9.26		PASS
	Ant3	2412	30~1000	9.26	-58.16	≤-20.74	PASS
	Anto	2412	1000~26500	9.26	-43.13	≤-20.74	PASS
			Reference	10.49	10.49		PASS
	Ant4	2412	30~1000	10.49	-58.21	 ≤-19.51	PASS
	Ant4	2412	1000~26500	10.49	-43.29	<u>≤-19.51</u> ≤-19.51	PASS
			Reference	10.49		<u></u>	PASS
	A := 11	0407			10.64		
	Ant1	2437	30~1000	10.64	-57.43	≤-19.36	PASS
			1000~26500	10.64	-44.39	≤-19.36	PASS
			Reference	9.83	9.83		PASS
	Ant2	2437	30~1000	9.83	-58.07	≤-20.17	PASS
11B			1000~26500	9.83	-51.44	≤-20.17	PASS
110			Reference	10.21	10.21		PASS
	Ant3	2437	30~1000	10.21	-58.36	≤-19.79	PASS
			1000~26500	10.21	-44.64	≤-19.79	PASS
			Reference	10.00	10.00		PASS
	Ant4	2437	30~1000	10.00	-57.34	≤-20	PASS
			1000~26500	10.00	-43.88	≤-20	PASS
			Reference	12.44	12.44		PASS
	Ant1	2462	30~1000	12.44	-58.58	≤-17.56	PASS
			1000~26500	12.44	-42.47	≤-17.56	PASS
			Reference	9.29	9.29		PASS
	Ant2	2462	30~1000	9.29	-58.33	≤-20.71	PASS
			1000~26500	9.29	-51.23	≤-20.71	PASS
			Reference	9.64	9.64		PASS
	Ant3	2462	30~1000	9.64	-58.72	≤-20.36	PASS
	7 4110	2102	1000~26500	9.64	-46.47	≤-20.36	PASS
			Reference	10.66	10.66		PASS
	Ant4	2462	30~1000	10.66	-57.64	≤-19.34	PASS
	71114	2402	1000~26500	10.66	-43.77	<u>≤-19.34</u> ≤-19.34	PASS
			Reference	7.22	7.22		PASS
	Ant1	2412	30~1000	7.22	-58.11	 ≤-22.78	PASS
	Anti	2412					
			1000~26500	7.22	-51.24	≤-22.78	PASS
	A 10	0440	Reference	7.40	7.40		PASS
	Ant2	2412	30~1000	7.40	-58.36	≤-22.6	PASS
			1000~26500	7.40	-51.51	≤-22.6	PASS
			Reference	7.06	7.06		PASS
	Ant3	2412	30~1000	7.06	-58.37	≤-22.94	PASS
			1000~26500	7.06	-50.78	≤-22.94	PASS
			Reference	7.53	7.53		PASS
	Ant4	2412	30~1000	7.53	-58.38	≤-22.47	PASS
			1000~26500	7.53	-50.56	≤-22.47	PASS
11G			Reference	6.86	6.86		PASS
110	Ant1	2437	30~1000	6.86	-58.21	≤-23.14	PASS
			1000~26500	6.86	-51.61	≤-23.14	PASS
			Reference	7.03	7.03		PASS
	Ant2	2437	30~1000	7.03	-58.12	≤-22.97	PASS
			1000~26500	7.03	-50.85	≤-22.97	PASS
			Reference	6.28	6.28		PASS
	Ant3	2437	30~1000	6.28	-58.43	≤-23.72	PASS
	,	2.07	1000~26500	6.28	-50.19	≤-23.72	PASS
			Reference	7.27	7.27		PASS
	Ant4	2437	30~1000	7.27	-58.64	 ≤-22.73	PASS
	71114	2431		7.27		<u>≤-22.73</u> ≤-22.73	PASS
		+	1000~26500		-50.81	<u> </u>	
	Ant1	2462	Reference	6.01	6.01		PASS
			30~1000	6.01	-58.31	≤-23.99	PASS

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			1000~26500	6.01	-51.3	≤-23.99	PASS
-			Reference	7.05	7.05		PASS
	Ant2	2462	30~1000	7.05	-58.21	≤-22.95	PASS
			1000~26500	7.05	-51.6	≤-22.95	PASS
			Reference	5.86	5.86		PASS
	Ant3	2462	30~1000	5.86	-57.65	≤-24.14	PASS
			1000~26500	5.86	-50.61	≤-24.14	PASS
			Reference	6.90	6.90		PASS
	Ant4	2462	30~1000	6.90	-58.84	≤-23.1	PASS
			1000~26500	6.90	-50.36	≤-23.1	PASS
			Reference	-0.79	-0.79		PASS
	Ant1	2412	30~1000	-0.79	-58.43	≤-30.79	PASS
			1000~26500	-0.79	-46.68	≤-30.79	PASS
			Reference	0.04	0.04		PASS
	Ant2	2412	30~1000	0.04	-58.34	≤-29.96	PASS
			1000~26500	0.04	-51.52	≤-29.96	PASS
			Reference	-0.19	-0.19		PASS
	Ant3	2412	30~1000	-0.19	-57.89	≤-30.19	PASS
			1000~26500	-0.19	-48.75	≤-30.19	PASS
			Reference	0.07	0.07		PASS
	Ant4	2412	30~1000	0.07	-58.48	≤-29.93	PASS
			1000~26500	0.07	-50.55	≤-29.93	PASS
			Reference	-0.50	-0.50		PASS
	Ant1	2437	30~1000	-0.50	-58.1	≤-30.5	PASS
			1000~26500	-0.50	-51.4	≤-30.5	PASS
			Reference	-0.18	-0.18		PASS
	Ant2	2437	30~1000	-0.18	-58.2	≤-30.18	PASS
11N20MIMO			1000~26500	-0.18	-49.53	≤-30.18	PASS
			Reference	-0.07	-0.07		PASS
	Ant3	2437	30~1000	-0.07	-58.28	≤-30.07	PASS
			1000~26500	-0.07	-51.25	≤-30.07	PASS
			Reference	-0.19	-0.19		PASS
	Ant4	2437	30~1000	-0.19	-57.73	≤-30.19	PASS
			1000~26500	-0.19	-51.16	≤-30.19	PASS
			Reference	0.75	0.75		PASS
	Ant1	2462	30~1000	0.75	-58.41	≤-29.25	PASS
			1000~26500	0.75	-51.17	≤-29.25	PASS
			Reference	-0.48	-0.48		PASS
	Ant2	2462	30~1000	-0.48	-57.4	≤-30.48	PASS
			1000~26500	-0.48	-50.59	≤-30.48	PASS
			Reference	0.00	0.00		PASS
	Ant3	2462	30~1000	0.00	-58.65	≤-30	PASS
_			1000~26500	0.00	-51.28	≤-30	PASS
			Reference	-0.39	-0.39		PASS
	Ant4	2462	30~1000	-0.39	-58.61	≤-30.39	PASS
			1000~26500	-0.39	-50.81	≤-30.39	PASS
			Reference	-3.80	-3.80		PASS
	Ant1	2422	30~1000	-3.80	-57.69	≤-33.8	PASS
Ļ			1000~26500	-3.80	-51.26	≤-33.8	PASS
	_		Reference	-2.64	-2.64		PASS
	Ant2	2422	30~1000	-2.64	-58.76	≤-32.64	PASS
Ļ			1000~26500	-2.64	-50.9	≤-32.64	PASS
			Reference	-2.23	-2.23		PASS
	Ant3	2422	30~1000	-2.23	-57.91	≤-32.23	PASS
			1000~26500	-2.23	-51.21	≤-32.23	PASS
11N40MIMO			Reference	-2.01	-2.01		PASS
	Ant4	2422	30~1000	-2.01	-57.63	≤-32.01	PASS
			1000~26500	-2.01	-51.35	≤-32.01	PASS
			Reference	-3.13	-3.13		PASS
	Ant1	2437	30~1000	-3.13	-58.37	≤-33.13	PASS
			1000~26500	-3.13	-50.1	≤-33.13	PASS
			Reference	-2.63	-2.63		PASS
	Ant2	2437	30~1000	-2.63	-58.37	≤-32.63	PASS
			1000~26500	-2.63	-51.19	≤-32.63	PASS
Γ	Ant3	2437	Reference	-2.79	-2.79		PASS
		2401	30~1000	-2.79	-57.23	≤-32.79	PASS

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			1000~26500	-2.79	-50.67	≤-32.79	PASS
			Reference	-2.59	-2.59		PASS
	Ant4	2437	30~1000	-2.59	-58.26	≤-32.59	PASS
			1000~26500	-2.59	-50.03	≤-32.59	PASS
			Reference	-2.79	-2.79		PASS
	Ant1	2452	30~1000	-2.79	-58.51	≤-32.79	PASS
			1000~26500	-2.79	-51.74	≤-32.79	PASS
			Reference	-2.62	-2.62		PASS
	Ant2	2452	30~1000	-2.62	-57.54	≤-32.62	PASS
			1000~26500	-2.62	-50.13	≤-32.62	PASS
			Reference	-2.65	-2.65		PASS
	Ant3	2452	30~1000	-2.65	-56.75	≤-32.65	PASS
			1000~26500	-2.65	-51.1	≤-32.65	PASS
			Reference	-2.36	-2.36		PASS
	Ant4	2452	30~1000	-2.36	-57.42	≤-32.36	PASS
			1000~26500	-2.36	-50.87	≤-32.36	PASS



TestMode	Antenna	Freq(MHz)	Ru Size	Ru Index	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
				RU61	Reference	-1.04	-1.04		PASS
	Ant1	2412	242Tone	RU61	30~1000	-1.04	-57.76	≤-21.04	PASS
				RU61	1000~26500	-1.04	-51.25	≤-21.04	PASS
				RU61	Reference	-0.67	-0.67		PASS
	Ant2	2412	242Tone	RU61	30~1000	-0.67	-58.00	≤-20.67	PASS
				RU61	1000~26500	-0.67	-48.67	≤-20.67	PASS
	A 10	0.140	0.407	RU61	Reference	-0.73	-0.73		PASS
	Ant3	2412	242Tone	RU61	30~1000	-0.73	-57.85	≤-20.73	PASS
				RU61 RU61	1000~26500 Reference	-0.73	-51.01 1.11	≤-20.73 	PASS PASS
	Ant4	2412	242Tone	RU61	30~1000	1.11 1.11	-58.36	 ≤-18.89	PASS
	71114	2412	24210116	RU61	1000~26500	1.11	-50.41	≤-18.89	PASS
				RU61	Reference	-0.57	-0.57		PASS
	Ant1	2437	242Tone	RU61	30~1000	-0.57	-58.54	≤-20.57	PASS
	7			RU61	1000~26500	-0.57	-51.41	≤-20.57	PASS
				RU61	Reference	-0.87	-0.87		PASS
	Ant2	2437	242Tone	RU61	30~1000	-0.87	-57.77	≤-20.87	PASS
				RU61	1000~26500	-0.87	-51.04	≤-20.87	PASS
11AX20MIMO				RU61	Reference	-0.86	-0.86		PASS
	Ant3	2437	242Tone	RU61	30~1000	-0.86	-58.39	≤-20.86	PASS
				RU61	1000~26500	-0.86	-50.57	≤-20.86	PASS
				RU61	Reference	-0.92	-0.92		PASS
	Ant4	2437	242Tone	RU61	30~1000	-0.92	-57.12	≤-20.92	PASS
				RU61	1000~26500	-0.92	-51.48	≤-20.92	PASS
				RU61	Reference	-0.34	-0.34		PASS
	Ant1	2462	242Tone	RU61	30~1000	-0.34	-58.04	≤-20.34	PASS
				RU61	1000~26500	-0.34	-50.77	≤-20.34	PASS
	A = 10	0.400	0.407	RU61	Reference	-1.43	-1.43		PASS
	Ant2	2462	242Tone	RU61	30~1000	-1.43	-58.12	≤-21.43	PASS
				RU61 RU61	1000~26500	-1.43	-50.92	≤-21.43	PASS
	Ant3	2462	242Tone	RU61	Reference 30~1000	-1.25 -1.25	-1.25 -58.50	 ≤-21.25	PASS PASS
	Anto	2402	24210116	RU61	1000~26500	-1.25	-51.43	≤-21.25 ≤-21.25	PASS
				RU61	Reference	-1.44	-1.44		PASS
	Ant4	2462	242Tone	RU61	30~1000	-1.44	-58.17	≤-21.44	PASS
	7			RU61	1000~26500	-1.44	-50.32	≤-21.44	PASS
				RU65	Reference	-3.30	-3.30		PASS
	Ant1	2422	484Tone	RU65	30~1000	-3.30	-57.90	≤-23.3	PASS
				RU65	1000~26500	-3.30	-51.13	≤-23.3	PASS
				RU65	Reference	-3.45	-3.45		PASS
	Ant2	2422	484Tone	RU65	30~1000	-3.45	-57.59	≤-23.45	PASS
				RU65	1000~26500	-3.45	-51.32	≤-23.45	PASS
				RU65	Reference	-3.06	-3.06		PASS
	Ant3	2422	484Tone	RU65	30~1000	-3.06	-58.82	≤-23.06	PASS
				RU65	1000~26500	-3.06	-50.60	≤-23.06	PASS
		0.400	40.4T	RU65	Reference	-3.11	-3.11		PASS
	Ant4	2422	484Tone	RU65	30~1000	-3.11	-57.53	≤-23.11	PASS
				RU65	1000~26500	-3.11	-51.76	≤-23.11	PASS
11AX40MIMO	A =+4	0407	101Tana	RU65	Reference	-2.77	-2.77	 ≤-22.77	PASS
11AX40IVIIIVIO	Ant1	2437	484Tone	RU65	30~1000	-2.77	-57.83		PASS
				RU65	1000~26500	-2.77	-50.94	≤-22.77	PASS
	Ant2	2437	484Tone	RU65 RU65	Reference 30~1000	-3.83 -3.83	-3.83 -58.60	 ≤-23.83	PASS PASS
	AIIIZ	2437	40410116	RU65	1000~26500	-3.83	-56.60	≤-23.83	PASS
				RU65	Reference	-3.37	-3.37		PASS
	Ant3	2437	484Tone	RU65	30~1000	-3.37	-58.37	≤-23.37	PASS
	,	2.07	10110110	RU65	1000~26500	-3.37	-51.23	≤-23.37	PASS
		1		RU65	Reference	-3.31	-3.31		PASS
	Ant4	2437	484Tone	RU65	30~1000	-3.31	-55.80	≤-23.31	PASS
		-		RU65	1000~26500	-3.31	-51.15	≤-23.31	PASS
				RU65	Reference	-2.96	-2.96		PASS
	Ant1	2452	484Tone	RU65	30~1000	-2.96	-58.32	≤-22.96	PASS
	1	1	1	RU65	1000~26500	-2.96	-51.39	≤-22.96	PASS

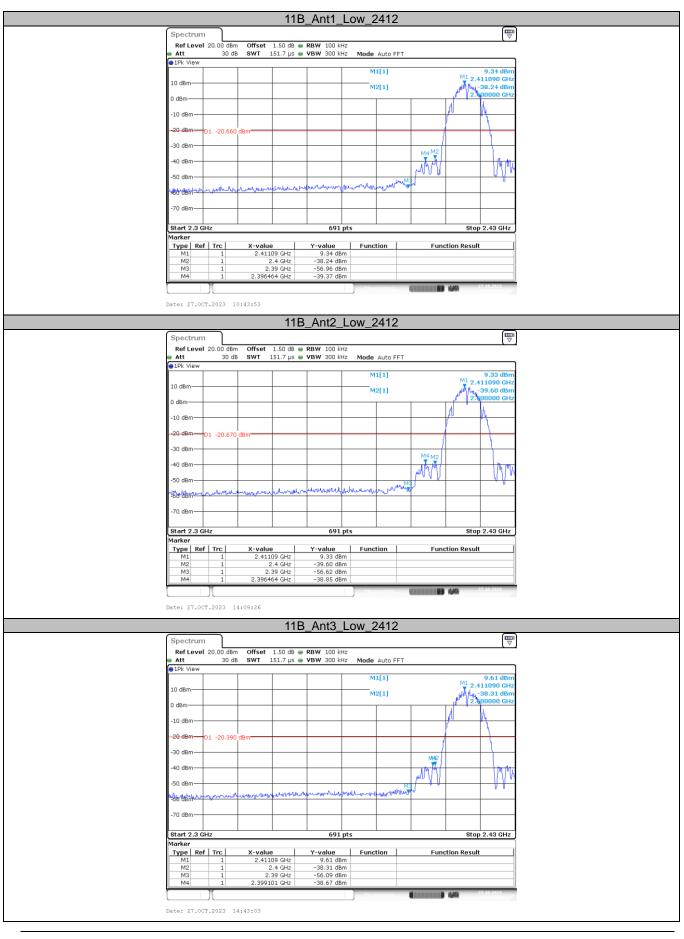
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				RU65	Reference	-3.26	-3.26		PASS
	Ant2	2452	484Tone	RU65	30~1000	-3.26	-58.09	≤-23.26	PASS
				RU65	1000~26500	-3.26	-51.39	≤-23.26	PASS
			484Tone	RU65	Reference	-3.25	-3.25		PASS
	Ant3	Ant3 2452		RU65	30~1000	-3.25	-57.77	≤-23.25	PASS
				RU65	1000~26500	-3.25	-50.70	≤-23.25	PASS
				RU65	Reference	-3.51	-3.51		PASS
	Ant4 2452	484Tone	RU65	30~1000	-3.51	-58.65	≤-23.51	PASS	
			RU65	1000~26500	-3.51	-50.93	≤-23.51	PASS	



#### Test plot as follows:



CTC Laboratories, Inc.

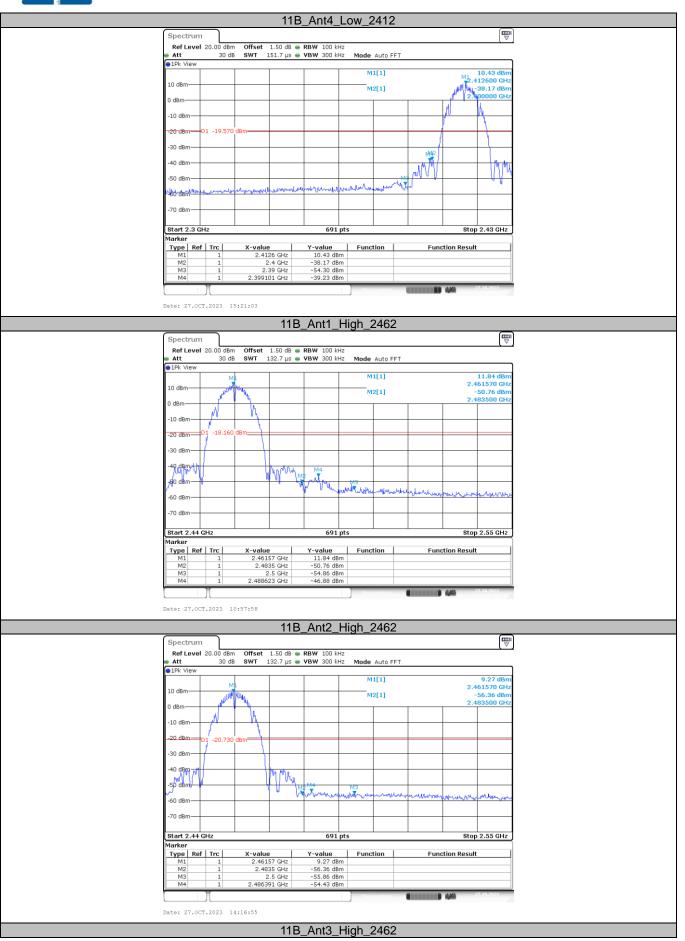
2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China



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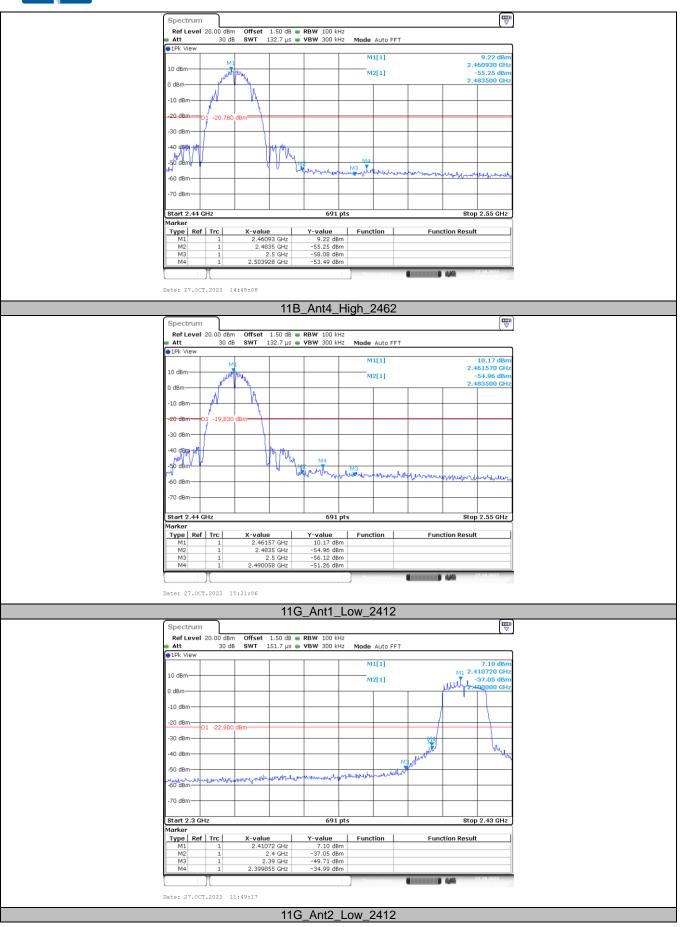


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