

CTC Laboratories, Inc.

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TEST REPORT

Report No. GTI20191674E-3

FCC ID-----: 2ATUP-Q660500

IC 25301-Q660500

Applicant------ eInfochips Inc

Address...... 2025 Gateway Place, Suite 270, San Jose, CA 95110, United

States of America

Manufacturer----- eInfochips Inc

Address...... 2025 Gateway Place, Suite 270, San Jose, CA 95110, United

States of America

Product Name Eragon 660

Trade Mark----: **Crayon**

Model/Type reference······ Eragon 660 SBC

Listed Model(s) -----: EIC-Q660-500

Standard FCC CFR Title 47 Part 15 Subpart C Section 15.247

RSS 247 Issue 2

Date of receipt of test sample...: Jul. 7, 2019

Date of testing....... Jul. 8, 2019 to Sep. 25, 2019

Date of issue...... Sep. 25, 2019

Result.....: PASS

Compiled by:

(Printed name+signature) Terry Su

Supervised by:

(Printed name+signature) Eric Zhang

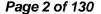
Approved by:

(Printed name+signature) Walter Chen

Testing Laboratory Name.....: CTC Laboratories, Inc.

High-Tech Park, Longhua District, Shenzhen, Guangdong, China

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6.

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1. TEST SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

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

RSS 247 Issue 2: Standard Specifications for Frequency Hopping Systems (FHSs) and Digital Transmission Systems (DTSs) Operating in the Bands 902-928MHz, 2400-2483.5MHz and 5725-5850MHz.

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

1.2. Report version

Revised No.	Date of issue	Description
01	Sep. 25, 2019	Original





1.3. Test Description

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

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

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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:

CNAS-Lab Code: L5365

CTC Laboratories, Inc. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No.: CN1208

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: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

IC Registration No.: 9783A

The 3m alternate test site of 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

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

1.5. Measurement Uncertainty

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

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

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





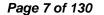
Test Items Measurement Uncertainty Notes Transmitter power conducted 0.42 dB (1)Transmitter power Radiated 2.14 dB (1) Conducted spurious emissions 9kHz~40GHz 1.60 dB (1)Radiated spurious emissions 9kHz~40GHz 2.20 dB (1) Conducted Emissions 9kHz~30MHz 3.20 dB (1)Radiated Emissions 30~1000MHz 4.70 dB (1)Radiated Emissions 1~18GHz 5.00 dB (1)Radiated Emissions 18~40GHz 5.54 dB (1)Occupied Bandwidth (1)

1.6. Environmental conditions

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

Temperature:	25°C
Relative Humidity:	40%
Air Pressure:	101kPa

Note (1): This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.





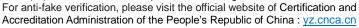
2. GENERAL INFORMATION

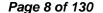
2.1. Client Information

Applicant:	eInfochips Inc
Address:	2025 Gateway Place, Suite 270, San Jose, CA 95110, United States of America
Manufacturer:	eInfochips Inc
Address:	2025 Gateway Place, Suite 270, San Jose, CA 95110, United States of America

2.2. General Description of EUT

Product Name:	Eragon 660
Trade Mark:	eragon
Model/Type reference:	Eragon 660 SBC
Listed Model(s):	EIC-Q660-500
Model Difference:	All these models are identical in the same PCB, layout and electrical circuit, the only difference is model name.
Power supply:	12Vdc/2.5A from AC/DC Adapter
Adapter Model:	GPE048A-120250-D Input:100-240V 50/60Hz 1A Output:12V/2.5A
Hardware version:	1.1
Software version:	1.1.0
WIFI 802.11b/g/n(HT20)	
Modulation:	802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g/n: OFDM(BPSK,QPSK,16QAM,64QAM)
Operation frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz
Channel number:	802.11b/g/n(HT20):11channels
Channel separation:	5MHz
Antenna 1 and 2 type:	Ceramic Antenna
Antenna 1 and 2 gain:	1.5dBi







2.3. 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)

The display in grey were the channel selected for testing.

Test mode

For RF test items:

The engineering test program was provided and enabled to make EUT continuous transmit (duty cycle>98%).

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 (duty cycle>98%). The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data Recorded in the report.

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



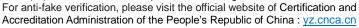


2.4. Measurement Instruments List

Tonsce	Tonscend JS0806-2 Test system						
Item	Test Equipment Manufacturer		Model No.	Serial No.	Calibrated until		
1	Spectrum Analyzer	Rohde & Schwarz	FSU26	100105	Dec. 28, 2019		
2	Spectrum Analyzer	Rohde & Schwarz	FUV40-N	101331	Dec. 28, 2019		
3	MXG Vector Signal Generator	Agilent	N5182A	MY47420864	Dec. 28, 2019		
4	Signal Generator	Agilent	E8257D	MY46521908	Dec. 28, 2019		
5	Power Sensor	Agilent	U2021XA	MY5365004	Dec. 28, 2019		
6	Power Sensor	Agilent	U2021XA	MY5365006	Dec. 28, 2019		
7	Simultaneous Sampling DAQ	Agilent	U2531A	TW54493510	Dec. 28, 2019		
8	Climate Chamber	TABAI	PR-4G	A8708055	Dec. 28, 2019		
9	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	116410	Dec. 28, 2019		
10	Climate Chamber	ESPEC	MT3065	/	Dec. 28, 2019		
11	300328 v2.1.1 test system	TONSCEND	v2.6	/	1		

Radiat	ed Emission and Trans	mitter spurious emis	sions		
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	EMI Test Receiver	Rohde & Schwarz	ESCI	100658	Dec. 28, 2019
2	High pass filter	micro-tranics	HPM50111	142	Dec. 28, 2019
3	Log-Bicon Antenna	Schwarzbeck	CBL6141A	4180	Dec. 28, 2019
4	Ultra-Broadband Antenna	ShwarzBeck	BBHA9170	25841	Dec. 28, 2019
5	Loop Antenna	LAPLAC	RF300	9138	Dec. 28, 2019
6	Spectrum Analyzer	Rohde & Schwarz	FSU26	100105	Dec. 28, 2019
7	Horn Antenna	Schwarzbeck	BBHA 9120D	647	Dec. 28, 2019
8	Pre-Amplifier	HP	8447D	1937A03050	Dec. 28, 2019
9	Pre-Amplifier	EMCI	EMC051835	980075	Dec. 28, 2019
10	Antenna Mast	UC	UC3000	N/A	N/A
11	Turn Table	UC	UC3000	N/A	N/A
12	Cable Below 1GHz	Schwarzbeck	AK9515E	33155	Dec. 28, 2019
13	Cable Above 1GHz	Hubersuhner	SUCOFLEX10 2	DA1580	Dec. 28, 2019
14	Splitter	Mini-Circuit	ZAPD-4	400059	Dec. 28, 2019
15	RF Connection Cable	HUBER+SUHNE R	RE-7-FL	N/A	Dec. 28, 2019
16	RF Connection Cable	Chengdu E-Microwave			Dec. 28, 2019

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17	High pass filter	Compliance Direction systems	BSU-6	34202	Dec. 28, 2019
18	Attenuator	Chengdu E-Microwave	EMCAXX-10R NZ-3		Dec. 28, 2019
19	High and low temperature box	ESPEC	MT3065	12114019	Dec. 28, 2019

Cond	Conducted Emission									
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until					
1	LISN R&S LISN R&S		R&S ENV216	101112	Dec. 28, 2019					
2			ENV216	101113	Dec. 28, 2019					
3	EMI Test Receiver	R&S	ESCI	100658	Dec. 28, 2019					

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

^{2.} The cable loss has calculated in test result which connection between each test instruments.

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3. TEST ITEM AND RESULTS

3.1. Conducted Emission

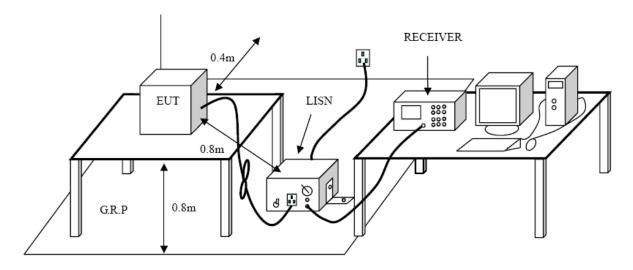
Limit

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

Fraguenov rango (MHz)	Limit (dBuV)			
Frequency range (MHz)	Quasi-peak	Average		
0.15-0.5	66 to 56*	56 to 46*		
0.5-5	56	46		
5-30	60	50		

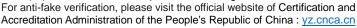
^{*} Decreases with the logarithm of the frequency.

Test Configuration



Test Procedure

- 1. The EUT was setup according to ANSI C63.10:2013 requirements.
- 2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
- 3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
- 4. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
- 5. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
- 6. Conducted Emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
- 7. During the above scans, the emissions were maximized by cable manipulation.



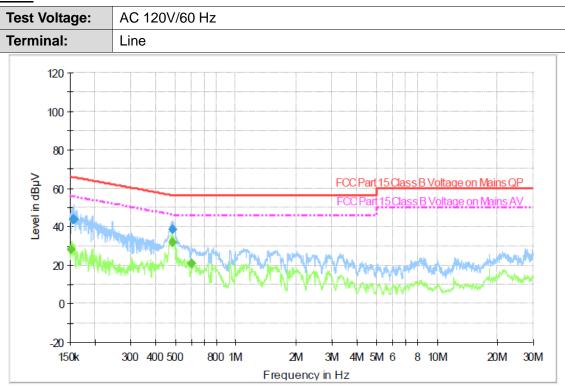




Test Mode:

Please refer to the clause 2.3.

Test Results



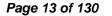
Final Measurement Detector 1

	Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
Г	0.155800	43.6	1000.00	9.000	Off	L1	10.0	22.1	65.7	
	0.156740	43.9	1000.00	9.000	Off	L1	10.0	21.7	65.6	
	0.482730	38.7	1000.00	9.000	Off	L1	10.0	17.6	56.3	

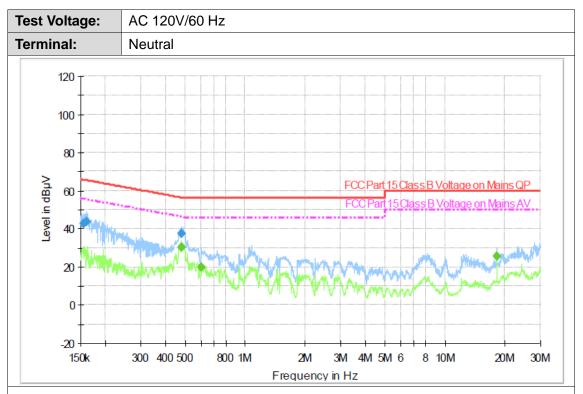
Final Measurement Detector 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.152420	28.2	1000.00	9.000	Off	L1	10.0	27.7	55.9	
0.482730	31.8	1000.00	9.000	Off	L1	10.0	14.5	46.3	
0.600190	21.0	1000.00	9.000	Off	L1	10.0	25.0	46.0	

Emission Level= Read Level+ Correct Factor







Final Measurement Detector 1

Frequenc (MHz)	y QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.15518	30 42.7	1000.00	9.000	Off	N	9.5	23.0	65.7	
0.16119	90 43.8	1000.00	9.000	Off	N	9.5	21.6	65.4	
0.47889	90 37.7	1000.00	9.000	Off	N	9.5	18.7	56.4	

Final Measurement Detector 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.478890	30.2	1000.00	9.000	Off	N	9.5	16.2	46.4	
0.602600	20.0	1000.00	9.000	Off	N	9.4	26.0	46.0	
18.175690	25.5	1000.00	9.000	Off	N	9.7	24.5	50.0	

Emission Level= Read Level+ Correct Factor



3.2. Radiated Emission

<u>Limit</u>

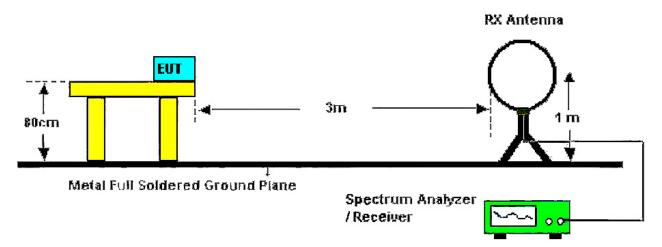
FCC CFR Title 47 Part 15 Subpart C Section 15.209/ RSS – Gen 8.9:

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

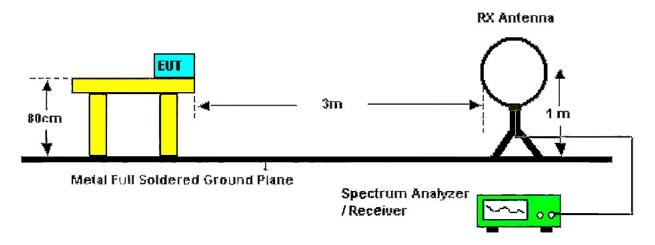
Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission Level (dBuV/m)=20log Emission Level (uV/m).

Test Configuration

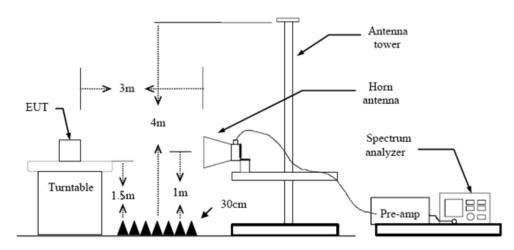


Below 30MHz Test Setup



Below 1000MHz Test Setup





Above 1GHz Test Setup

Test Procedure

- 1. The EUT was setup and tested according to ANSI C63.10:2013
- 2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
- 4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
- 5. Set to the maximum power setting and enable the EUT transmit continuously.
- 6. Use the following spectrum analyzer settings
- (1) Span shall wide enough to fully capture the emission being measured;
- (2) Below 1 GHz:

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

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

(3) From 1 GHz to 10th harmonic:

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

RBW=1MHz, VBW=3MHz RMS detector for Average value.

Test Mode

Please refer to the clause 2.3.

Test Result

9 KHz~30 MHz

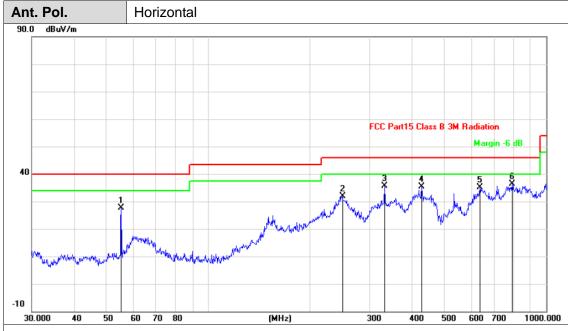
From 9 KHz to 30 MHz: Conclusion: PASS

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

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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: yz.cnca.cn



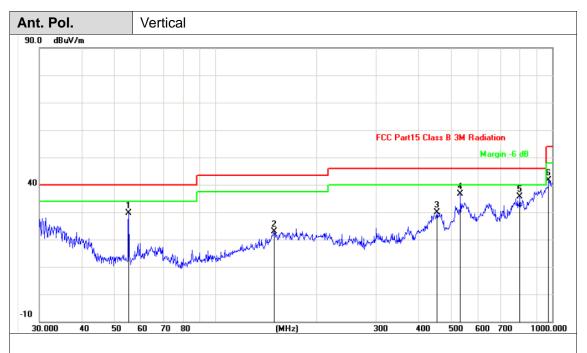


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	55.2207	-18.75	46.48	27.73	40.00	-12.27	QP
2	249.4250	-19.98	51.82	31.84	46.00	-14.16	QP
3	332.5187	-17.36	52.94	35.58	46.00	-10.42	QP
4	428.0193	-15.04	50.52	35.48	46.00	-10.52	QP
5	636.1340	-10.67	45.92	35.25	46.00	-10.75	QP
6	793.3960	-8.09	44.52	36.43	46.00	-9.57	QP

Remarks:

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

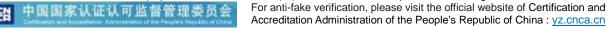




No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	55.2207	-18.75	48.46	29.71	40.00	-10.29	QP
2	149.4857	-18.16	41.14	22.98	43.50	-20.52	QP
3	454.3100	-14.40	44.37	29.97	46.00	-16.03	QP
4	533.8321	-13.04	49.67	36.63	46.00	-9.37	QP
5	801.7863	-7.96	43.63	35.67	46.00	-10.33	QP
6	975.7529	-5.22	46.86	41.64	54.00	-12.36	QP

Remarks:

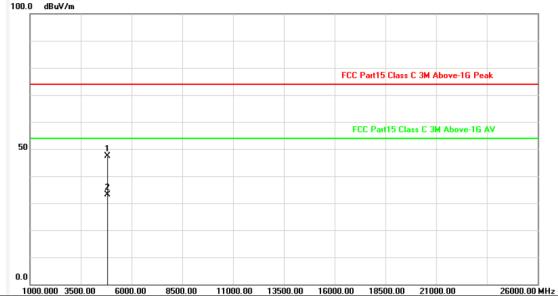
- 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2.Margin value = Level -Limit value





Adobe 1GHz

Ant No.	Ant 1
Ant. Pol.	Horizontal
Test Mode:	TX B Mode 2412MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.
100 0 dPuV/m	



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
1	4824.531	-3.26	50.73	47.47	74.00	-26.53	peak
2	4824.747	-3.26	36.33	33.07	54.00	-20.93	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. Pol.

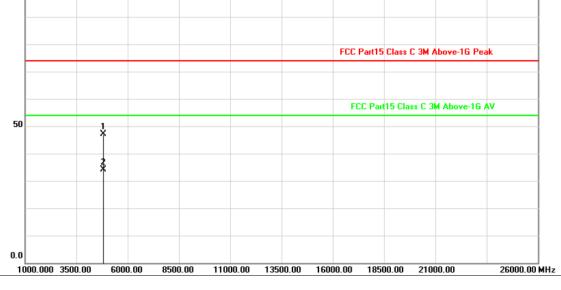
Vertical

Test Mode: TX B Mode 2412MHz

Remark: No report for the emission which more than 10 dB below the prescribed limit.

100.0 dBuV/m

FCC Part15 Class C 3M Above-16 Peak



No.	Frequency (MHz)	l	_	Level (dBuV/m)	l	Margin (dB)	Detector
1	4824.345	-3.26	50.37	47.11	74.00	-26.89	peak
2	4823.630	-3.26	37.31	34.05	54.00	-19.95	AVG

Remarks:

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

2.Margin value = Level -Limit value

中国国家认证认可监督管理委员会



Ant. Pol. Horizontal

Test Mode: TX B Mode 2437MHz

Remark: No report for the emission which more than 10 dB below the prescribed limit.

100.0 dBuV/m

FCC Part15 Class C 3M Above-1G Peak

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4872.626	-3.13	50.26	47.13	74.00	-26.87	peak
2	4874.945	-3.13	36.35	33.22	54.00	-20.78	AVG

13500.00

16000.00

Remarks:

0.0

1000.000 3500.00

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

2.Margin value = Level -Limit value

中国国家认证认可监督管理委员会

6000.00

8500.00

11000.00



21000.00

18500.00

26000.00 MHz

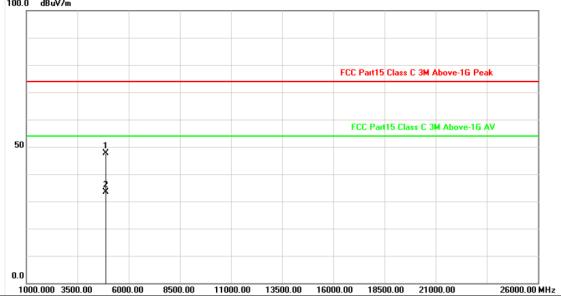


Ant No. Ant 1

Ant. Pol. Vertical

Test Mode: TX B Mode 2437MHz

Remark: No report for the emission which more than 10 dB below the prescribed limit.



No.	Frequency (MHz)		Reading (dBuV)		Limit (dBuV/m)	Margin (dB)	Detector
1	4876.125	-3.13	50.78	47.65	74.00	-26.35	peak
2	4874.915	-3.13	36.42	33.29	54.00	-20.71	AVG

Remarks:

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

2.Margin value = Level -Limit value

中国国家认证认可监督管理委员会



Ant. Pol. Horizontal

Test Mode: TX B Mode 2462MHz

Remark: No report for the emission which more than 10 dB below the prescribed limit.

100.0 dBuV/m

FCC Part15 Class C 3M Above-16 Peak

FCC Part15 Class C 3M Above-16 AV

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
1	4922.824	-3.00	50.58	47.58	74.00	-26.42	peak
2	4924.984	-3.00	36.24	33.24	54.00	-20.76	AVG

13500.00

16000.00

18500.00

21000.00

26000.00 MHz

Remarks:

0.0

1000.000 3500.00

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

2.Margin value = Level -Limit value

中国国家认证认可监督管理委员会

6000.00

8500.00

11000.00



26000.00 MHz



Ant. Pol. Vertical

Test Mode: TX B Mode 2462MHz

Remark: No report for the emission which more than 10 dB below the prescribed limit.

100.0 dBuV/m

FCC Part15 Class C 3M Above-16 Peak

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)		Limit (dBuV/m)	Margin (dB)	Detector
1	4923.600	-3.00	50.55	47.55	74.00	-26.45	peak
2	4922.765	-3.00	36.55	33.55	54.00	-20.45	AVG

11000.00 13500.00 16000.00 18500.00 21000.00

Remarks:

0.0

1000.000 3500.00

6000.00

8500.00

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

2.Margin value = Level -Limit value

中国国家认证认可监督管理委员会



Ant. Pol. Horizontal

Test Mode: TX G Mode 2412MHz

Remark: No report for the emission which more than 10 dB below the prescribed limit.

100.0 dBuV/m

FCC Part15 Class C 3M Above-1G Peak

FCC Part15 Class C 3M Above-1G AV

No.	Frequency (MHz)			Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4823.778	-3.26	46.91	43.65	74.00	-30.35	peak
2	4823.883	-3.26	36.25	32.99	54.00	-21.01	AVG

13500.00

16000.00

18500.00

21000.00

26000.00 MHz

Remarks:

0.0

1000.000 3500.00

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

2.Margin value = Level -Limit value

6000.00

8500.00

11000.00



26000.00 MHz



Ant. Pol.

Test Mode:

TX G Mode 2412MHz

Remark:

No report for the emission which more than 10 dB below the prescribed limit.

100.0 dBuV/m

FCC Part15 Class C 3M Above-16 Peak

FCC Part15 Class C 3M Above-16 AV

No.	Frequency (MHz)	l	Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
1	4823.930	-3.26	51.10	47.84	74.00	-26.16	peak
2	4823.970	-3.26	36.95	33.69	54.00	-20.31	AVG

13500.00 16000.00 18500.00 21000.00

Remarks:

0.0

1000.000 3500.00

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

2.Margin value = Level -Limit value

中国国家认证认可监督管理委员会

6000.00

8500.00

11000.00





Ant. Pol. Horizontal

Test Mode: TX G Mode 2437MHz

Remark: No report for the emission which more than 10 dB below the prescribed limit.

100.0 dBuV/m

FCC Part15 Class C 3M Above-1G Peak

											FCC F	art15	Class (3M A	bove-1G P	eak	
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											FC	C Parl	15 Clas	s C 3I	M Above-16	i AV	
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	3500.00	600	0.00	8500	1 00	110	00.00	1350	0.00	1600	00.00	1950	00.00	2100	00.00	2600	0 00

No.	Frequency (MHz)			Level (dBuV/m)			Detector
1	4872.605	-3.13	51.20	48.07	74.00	-25.93	peak
2	4876.420	-3.13	36.46	33.33	54.00	-20.67	AVG

Remarks:

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

2.Margin value = Level -Limit value



26000.00 MHz



Ant. Pol.

Test Mode:

TX G Mode 2437MHz

Remark:

No report for the emission which more than 10 dB below the prescribed limit.

100.0 dBuV/m

FCC Part15 Class C 3M Above-16 Peak

No.	Frequency (MHz)	Factor (dB/m)	_	Level (dBuV/m)	l .	Margin (dB)	Detector
1	4875.135	-3.13	50.60	47.47	74.00	-26.53	peak
2	4876.060	-3.13	36.41	33.28	54.00	-20.72	AVG

11000.00 13500.00 16000.00 18500.00 21000.00

Remarks:

0.0

1000.000 3500.00

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

2.Margin value = Level -Limit value

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6000.00

8500.00



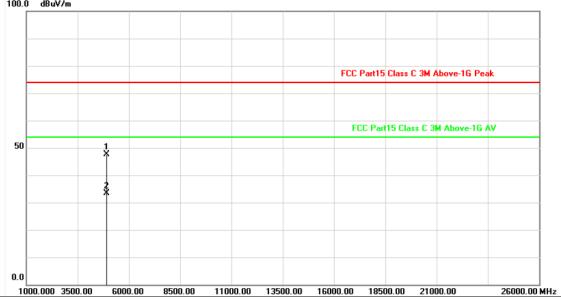


Ant No. Ant 1

Ant. Pol. Horizontal

Test Mode: TX G Mode 2462MHz

Remark: No report for the emission which more than 10 dB below the prescribed limit.



No.	Frequency (MHz)			Level (dBuV/m)		Margin (dB)	Detector
1	4923.205	-3.00	50.67	47.67	74.00	-26.33	peak
2	4921.500	-3.01	36.29	33.28	54.00	-20.72	AVG

Remarks:

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

2.Margin value = Level -Limit value





Ant. Pol.

Test Mode: TX G Mode 2462MHz

Remark: No report for the emission which more than 10 dB below the prescribed limit.

100.0 dBuV/m

FCC Part15 Class C 3M Above-16 Peak

FCC Part15 Class C 3M Above-16 AV

No.	Frequency (MHz)			Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4924.790	-3.00	51.03	48.03	74.00	-25.97	peak
2	4922.405	-3.01	36.27	33.26	54.00	-20.74	AVG

13500.00

16000.00

18500.00

21000.00

26000.00 MHz

Remarks:

0.0

1000.000 3500.00

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

2.Margin value = Level -Limit value

6000.00

8500.00

11000.00



26000.00 MHz



Ant No.

Ant. Pol.

Horizontal

Test Mode: TX N20 Mode 2412MHz

Remark: No report for the emission which more than 10 dB below the prescribed limit.

100.0 dBuV/m

FCC Part15 Class C 3M Above-16 Peak

FCC Part15 Class C 3M Above-16 AV

No.	Frequency	Factor	Reading	Level	Limit	Margin	Detector
INO.	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1	4825.795	-3.26	51.51	48.25	74.00	-25.75	peak
2	4824.410	-3.26	36.23	32.97	54.00	-21.03	AVG

11000.00 13500.00 16000.00

18500.00 21000.00

Remarks:

0.0

1000.000 3500.00

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

2.Margin value = Level -Limit value

中国国家认证认可监督管理委员会

6000.00

8500.00

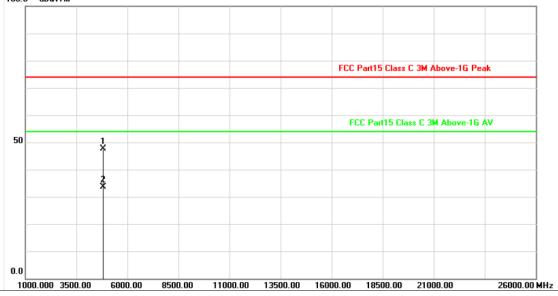


Ant No. Ant 1

Ant. Pol. Vertical

Test Mode: TX N20 Mode 2412MHz

Remark: No report for the emission which more than 10 dB below the prescribed limit.



No.	Frequency (MHz)			Level (dBuV/m)			Detector
1	4823.470	-3.26	50.85	47.59	74.00	-26.41	peak
2	4824.050	-3.26	36.94	33.68	54.00	-20.32	AVG

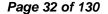
Remarks:

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

2.Margin value = Level -Limit value

中国国家认证认可监督管理委员会







Ant No. Ant 1

Ant. Pol. Horizontal

Test Mode: TX N20 Mode 2437MHz

Remark: No report for the emission which more than 10 dB below the prescribed limit.

100.0 dBuV/m

FCC Part 15 Class C 3M Above-1G Peak

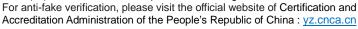
					FCC Part1	Class C 3M	Above-1G Pea	k
					FCC Par	t15 Class C	3M Above-1G A	١٧
0	1	1						
	1	ł						
0								

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
1	4874.400	-3.13	50.48	47.35	74.00	-26.65	peak
2	4875.895	-3.13	36.46	33.33	54.00	-20.67	AVG

Remarks:

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

2.Margin value = Level -Limit value



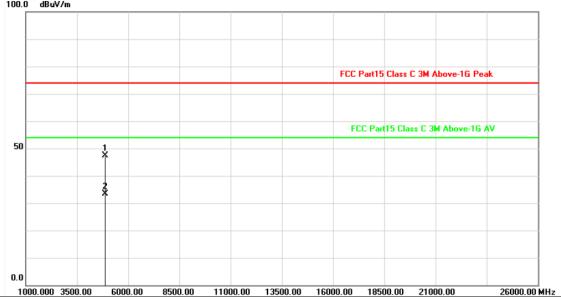


Ant No. Ant 1

Ant. Pol. Vertical

Test Mode: TX N20 Mode 2437MHz

Remark: No report for the emission which more than 10 dB below the prescribed limit.



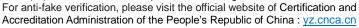
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4875.720	-3.13	50.61	47.48	74.00	-26.52	peak
2	4876.120	-3.13	36.48	33.35	54.00	-20.65	AVG

Remarks:

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

2.Margin value = Level -Limit value

中国国家认证认可监督管理委员会



26000.00 MHz



Ant. Pol. Horizontal

Test Mode: TX N20 Mode 2462MHz

Remark: No report for the emission which more than 10 dB below the prescribed limit.

100.0 dBuV/m

FCC Part15 Class C 3M Above-16 Peak.

No.	Frequency (MHz)			Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4926.295	-3.00	50.29	47.29	74.00	-26.71	peak
2	4921.560	-3.01	36.31	33.30	54.00	-20.70	AVG

11000.00 13500.00 16000.00 18500.00 21000.00

Remarks:

1000.000 3500.00

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

2.Margin value = Level -Limit value

中国国家认证认可监督管理委员会

6000.00

8500.00





Ant No. Ant 1

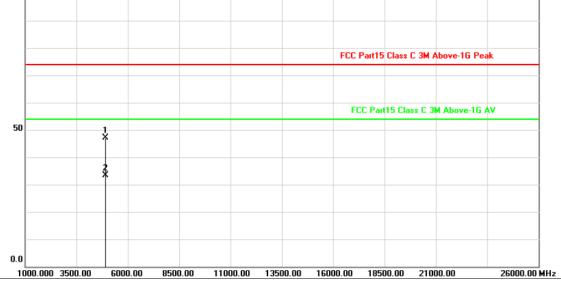
Ant. Pol. Vertical

Test Mode: TX N20 Mode 2462MHz

Remark: No report for the emission which more than 10 dB below the prescribed limit.

100.0 dBuV/m

FCC Part15 Class C 3M Above-16 Peak



No.	Frequency (MHz)		_	Level (dBuV/m)		_	Detector
1	4921.525	-3.01	50.13	47.12	74.00	-26.88	peak
2	4921.740	-3.01	36.31	33.30	54.00	-20.70	AVG

Remarks:

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

2.Margin value = Level -Limit value

中国国家认证认可监督管理委员会



26000.00 MHz



Ant. Pol.

Test Mode:

TX B Mode 2412MHz

Remark:

No report for the emission which more than 10 dB below the prescribed limit.

100.0 dBuV/m

FCC Part15 Class C 3M Above-16 AV

50 \$\frac{1}{3}\$

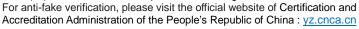
No.	Frequency (MHz)	l	_	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4826.345	-3.26	50.59	47.33	74.00	-26.67	peak
2	4824.090	-3.26	36.58	33.32	54.00	-20.68	AVG

Remarks:

1000.000 3500.00

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

2.Margin value = Level -Limit value



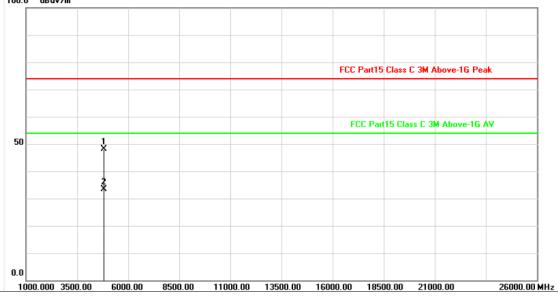


Ant No. Ant 2

Ant. Pol. Vertical

Test Mode: TX B Mode 2412MHz

Remark: No report for the emission which more than 10 dB below the prescribed limit.



No.	Frequency (MHz)			Level (dBuV/m)		Margin (dB)	Detector
1	4824.345	-3.26	51.28	48.02	74.00	-25.98	peak
2	4824.775	-3.26	36.57	33.31	54.00	-20.69	AVG

Remarks:

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

2.Margin value = Level -Limit value

中国国家认证认可监督管理委员会

26000.00 MHz



Ant. Pol. Horizontal

Test Mode: TX B Mode 2437MHz

Remark: No report for the emission which more than 10 dB below the prescribed limit.

100.0 dBuV/m

FCC Part15 Class C 3M Above-1G Peak

FCC Part15 Class C 3M Above-1G AV

No.	Frequency (MHz)	Factor (dB/m)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4873.810	-3.13	51.52	48.39	74.00	-25.61	peak
2	4875.495	-3.13	36.63	33.50	54.00	-20.50	AVG

13500.00 16000.00 18500.00 21000.00

Remarks:

0.0

1000.000 3500.00

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

2.Margin value = Level -Limit value

6000.00

8500.00



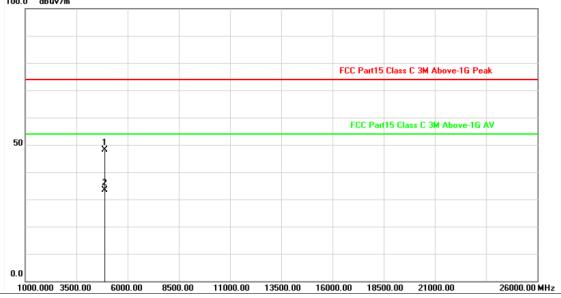


Ant No. Ant 2

Ant. Pol. Vertical

Test Mode: TX B Mode 2437MHz

Remark: No report for the emission which more than 10 dB below the prescribed limit.



No.	Frequency (MHz)			Level (dBuV/m)		Margin (dB)	Detector
1	4874.305	-3.13	51.16	48.03	74.00	-25.97	peak
2	4875.455	-3.13	36.63	33.50	54.00	-20.50	AVG

Remarks:

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



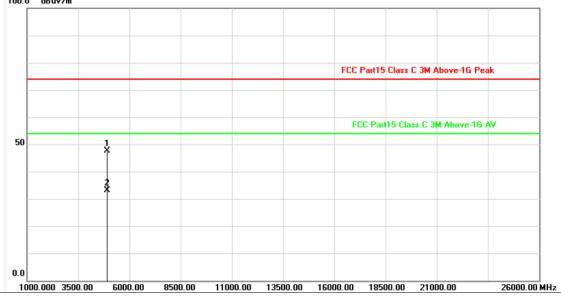


Ant No. Ant 2

Ant. Pol. Horizontal

Test Mode: TX B Mode 2462MHz

Remark: No report for the emission which more than 10 dB below the prescribed limit.



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
1	4925.295	-3.00	50.55	47.55	74.00	-26.45	peak
2	4925.835	-3.00	36.22	33.22	54.00	-20.78	AVG

Remarks:

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



Ant. Pol.

Test Mode: TX B Mode 2462MHz

Remark: No report for the emission which more than 10 dB below the prescribed limit.

100.0 dBuV/m

FCC Part15 Class C 3M Above-16 Peak

FCC Part15 Class C 3M Above-16 AV

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4922.420	-3.01	50.82	47.81	74.00	-26.19	peak
2	4922.205	-3.01	36.23	33.22	54.00	-20.78	AVG

13500.00

16000.00

18500.00

21000.00

26000.00 MHz

Remarks:

0.0

1000.000 3500.00

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

2.Margin value = Level -Limit value

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6000.00

8500.00





Ant No.

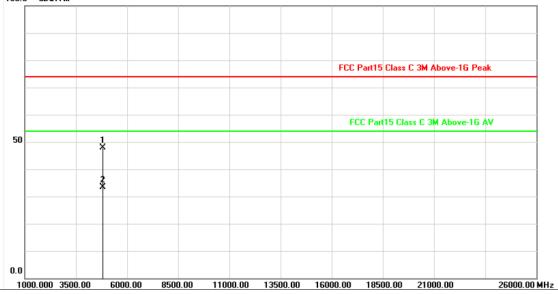
Ant 2

Ant. Pol.

Horizontal

Test Mode: TX G Mode 2412MHz

Remark: No report for the emission which more than 10 dB below the prescribed limit.



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
1	4822.055	-3.27	51.20	47.93	74.00	-26.07	peak
2	4822.865	-3.26	36.57	33.31	54.00	-20.69	AVG

Remarks:

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

2.Margin value = Level -Limit value

中国国家认证认可监督管理委员会





Ant. Pol. Vertical

Test Mode: TX G Mode 2412MHz

Remark: No report for the emission which more than 10 dB below the prescribed limit.

100.0 dBuV/m

FCC Part15 Class C 3M Above-1G Peak

FCC Part15 Class C 3M Above-1G AV

No.	Frequency (MHz)	Factor (dB/m)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4824.120	-3.26	50.84	47.58	74.00	-26.42	peak
2	4825.295	-3.26	36.57	33.31	54.00	-20.69	AVG

13500.00

16000.00

18500.00

Remarks:

0.0

1000.000 3500.00

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

2.Margin value = Level -Limit value

6000.00

8500.00

11000.00



21000.00

26000.00 MHz



Ant. Pol. Horizontal

Test Mode: TX G Mode 2437MHz

Remark: No report for the emission which more than 10 dB below the prescribed limit.

100.0 dBuV/m

FCC Part15 Class C 3M Above-16 Peak

FCC Part15 Class C 3M Above-16 AV

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
1	4874.165	-3.13	50.53	47.40	74.00	-26.60	peak
2	4874.495	-3.13	36.62	33.49	54.00	-20.51	AVG

13500.00

16000.00

18500.00

21000.00

26000.00 MHz

Remarks:

0.0

1000.000 3500.00

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

2.Margin value = Level -Limit value

6000.00

8500.00



26000.00 MHz



Ant. Pol.

Test Mode: TX G Mode 2437MHz

Remark: No report for the emission which more than 10 dB below the prescribed limit.

100.0 dBuV/m

FCC Part15 Class C 3M Above-16 Peak

FCC Part15 Class C 3M Above-16 AV

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4876.270	-3.13	51.43	48.30	74.00	-25.70	peak
2	4874.450	-3.13	36.60	33.47	54.00	-20.53	AVG

13500.00

16000.00

18500.00

21000.00

Remarks:

0.0

1000.000 3500.00

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

2.Margin value = Level -Limit value

6000.00

8500.00





Ant. Pol. Horizontal

Test Mode: TX G Mode 2462MHz

Remark: No report for the emission which more than 10 dB below the prescribed limit.

100.0 dBuV/m

FCC Part15 Class C 3M Above-1G Peak

50 FCC Part15 Class C 3M Above-1G AV

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
1	4923.345	-3.00	50.53	47.53	74.00	-26.47	peak
2	4926.240	-3.00	36.21	33.21	54.00	-20.79	AVG

13500.00

16000.00

18500.00

21000.00

26000.00 MHz

Remarks:

0.0

1000.000 3500.00

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

2.Margin value = Level -Limit value

6000.00

8500.00



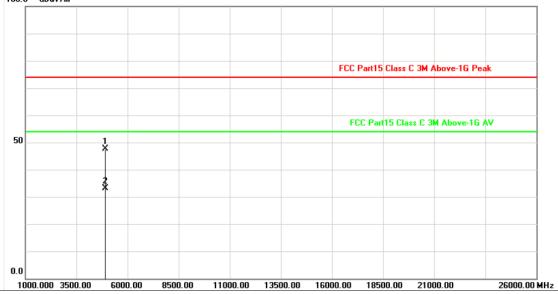


Ant No. Ant 2

Ant. Pol. Vertical

Test Mode: TX G Mode 2462MHz

Remark: No report for the emission which more than 10 dB below the prescribed limit.



No.	Frequency (MHz)			Level (dBuV/m)		Margin (dB)	Detector
1	4925.560	-3.00	50.63	47.63	74.00	-26.37	peak
2	4922.365	-3.01	36.20	33.19	54.00	-20.81	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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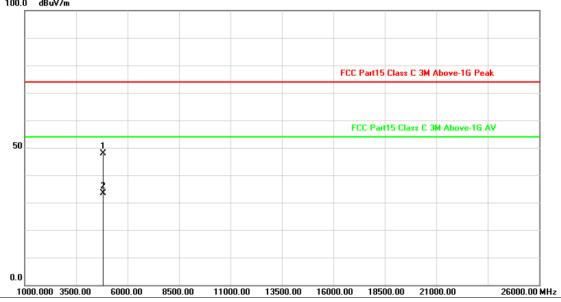


Ant No. Ant 2

Ant. Pol. Horizontal

Test Mode: TX N20 Mode 2412MHz

Remark: No report for the emission which more than 10 dB below the prescribed limit.



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
1	4822.325	-3.27	51.04	47.77	74.00	-26.23	peak
2	4823.065	-3.26	36.58	33.32	54.00	-20.68	AVG

Remarks:

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



26000.00 MHz



Ant No.

Ant 2

Ant. Pol.

Vertical

Test Mode:

TX N20 Mode 2412MHz

Remark:

No report for the emission which more than 10 dB below the prescribed limit.

100.0 dBuV/m

FCC Part15 Class C 3M Above-16 AV

50

TECT Part15 Class C 3M Above-16 AV

No.	Frequency (MHz)	Factor (dB/m)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4825.610	-3.26	50.86	47.60	74.00	-26.40	peak
2	4823.630	-3.26	36.57	33.31	54.00	-20.69	AVG

13500.00

16000.00 18500.00 21000.00

Remarks:

0.0

1000.000 3500.00

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

2.Margin value = Level -Limit value

中国国家认证认可监督管理委员会

6000.00

8500.00



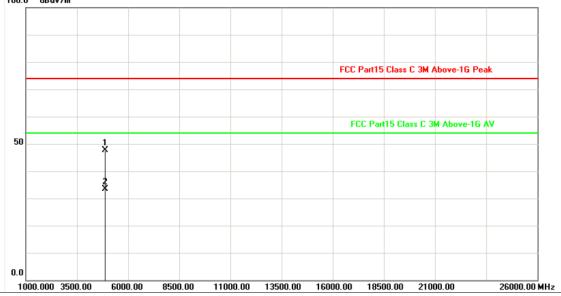


Ant No. Ant 2

Ant. Pol. Horizontal

Test Mode: TX N20 Mode 2437MHz

Remark: No report for the emission which more than 10 dB below the prescribed limit.



No.	Frequency (MHz)		Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
1	4875.140	-3.13	50.76	47.63	74.00	-26.37	peak
2	4875.155	-3.13	36.62	33.49	54.00	-20.51	AVG

Remarks:

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



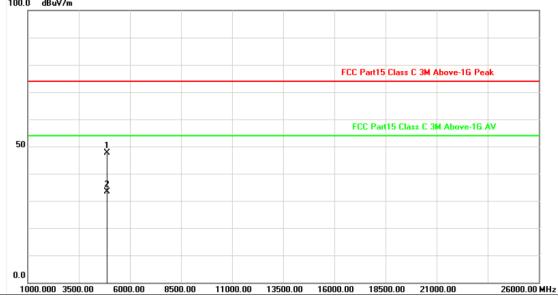


Ant No. Ant 2

Ant. Pol. Vertical

Test Mode: TX N20 Mode 2437MHz

Remark: No report for the emission which more than 10 dB below the prescribed limit.



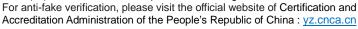
No.	Frequency (MHz)			Level (dBuV/m)			Detector
1	4872.670	-3.13	50.87	47.74	74.00	-26.26	peak
2	4876.095	-3.13	36.62	33.49	54.00	-20.51	AVG

Remarks:

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

2.Margin value = Level -Limit value

中国国家认证认可监督管理委员会



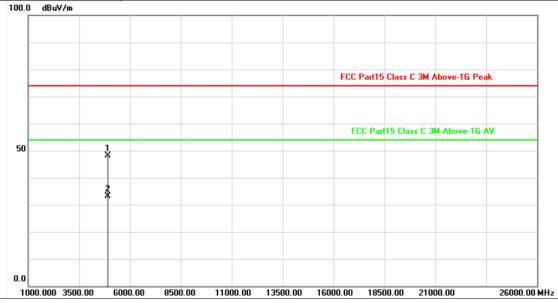


Ant No. Ant 2

Ant. Pol. Horizontal

Test Mode: TX N20 Mode 2462MHz

Remark: No report for the emission which more than 10 dB below the prescribed limit.



	No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
Γ	1	4924.815	-3.00	51.01	48.01	74.00	-25.99	peak
	2	4926.220	-3.00	36.20	33.20	54.00	-20.80	AVG

Remarks:

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

2.Margin value = Level -Limit value

中国国家认证认可监督管理委员会





Ant. Pol.

Test Mode:

TX N20 Mode 2462MHz

Remark:

No report for the emission which more than 10 dB below the prescribed limit.

100.0 dBuV/m

FCC Part15 Class C 3M Above-16 Peak

No.	Frequency (MHz)			Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4922.370	-3.01	50.25	47.24	74.00	-26.76	peak
2	4921.560	-3.01	36.19	33.18	54.00	-20.82	AVG

13500.00 16000.00 18500.00

21000.00

26000.00 MHz

Remarks:

0.0

1000.000 3500.00

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

2.Margin value = Level -Limit value

6000.00

8500.00



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3.3. Band Edge Emissions

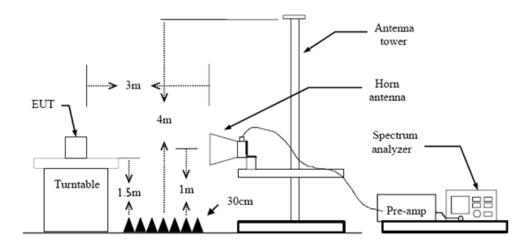
Limit

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

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

Conducted band edge limit: The highest point of the operating frequency waveform down 20dB

Test Configuration



Test Procedure

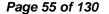
- 1. The EUT was setup and tested according to ANSI C63.10:2013 requirements.
- 2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT waspositioned such that the distance from antenna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

Test Mode

Please refer to the clause 2.3.

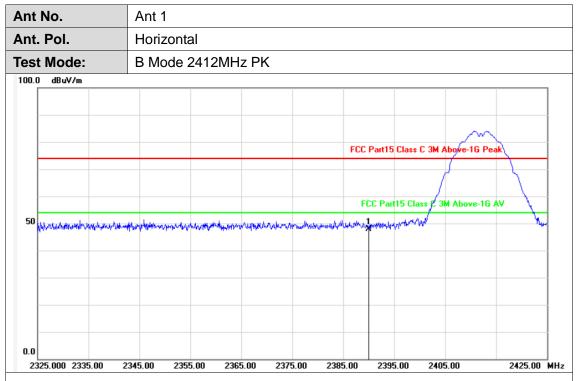
Test Results

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





(1) Radiation Test



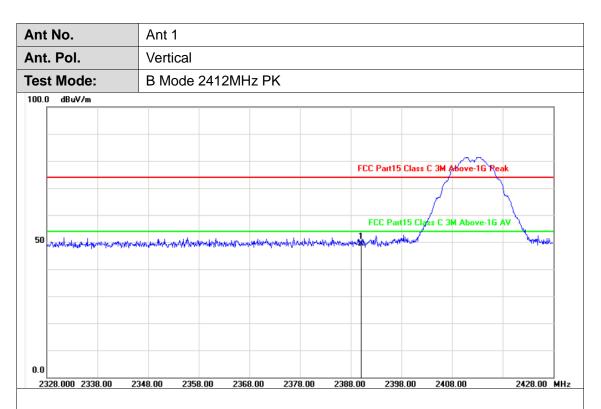
No.	Frequency (MHz)		Reading (dBuV)		Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	30.01	17.80	47.81	74.00	-26.19	peak

Remarks:

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



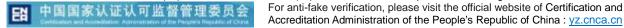




No.	Frequency (MHz)	l	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	30.01	19.31	49.32	74.00	-24.68	peak

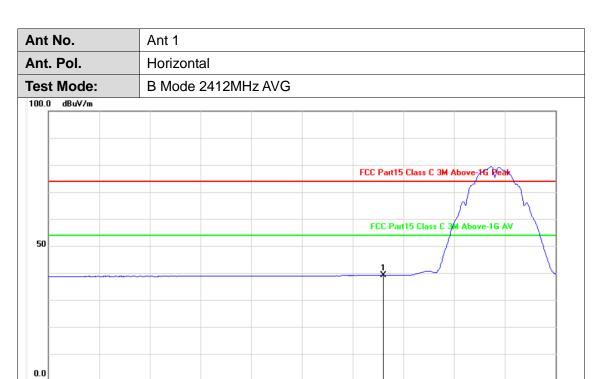
Remarks:

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









No.	Frequency (MHz)		Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	30.01	9.02	39.03	54.00	-14.97	AVG

2374.00

2394.00

2404.00

2424.00 MHz

2384.00

Remarks:

2324.000 2334.00

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

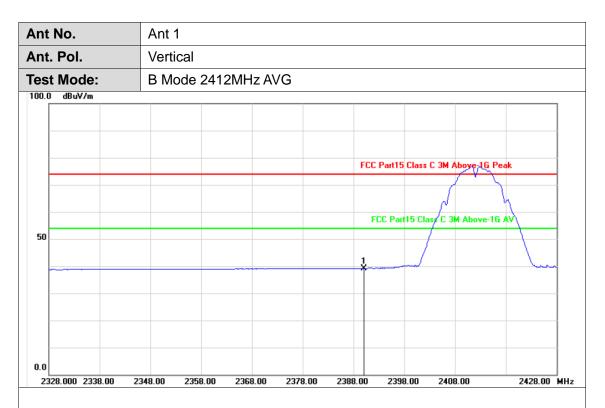
2.Margin value = Level -Limit value

2344.00

2354.00



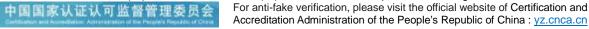




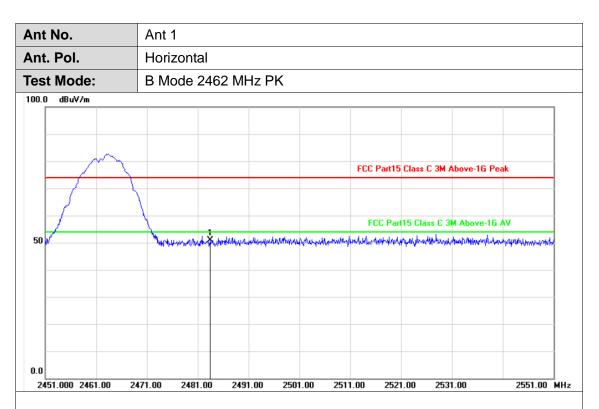
No.	Frequency (MHz)		Reading (dBuV)		Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	30.01	9.21	39.22	54.00	-14.78	AVG

Remarks:

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





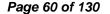


No.	Frequency (MHz)			Level (dBuV/m)		Margin (dB)	Detector	
1	2483.500	30.35	20.59	50.94	74.00	-23.06	peak	Ī

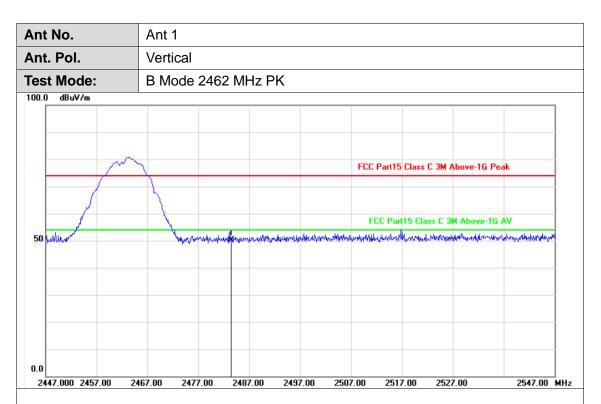
Remarks:

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









No.	Frequency (MHz)		Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	30.35	19.85	50.20	74.00	-23.80	peak

Remarks:

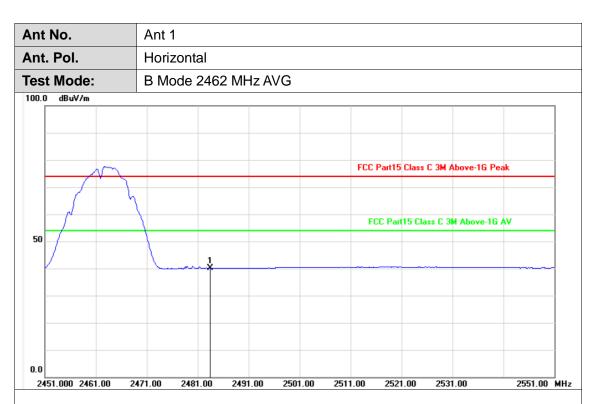
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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





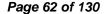


No.	Frequency (MHz)		Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	30.35	9.73	40.08	54.00	-13.92	AVG

Remarks:

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





2547.00 MHz



Ant. Pol. Vertical

Test Mode: B Mode 2462 MHz AVG

100.0 dBuV/m

FCC Part15 Class C 3M Above-1G Peak

FCC Part15 Class C 3M Above-1G AV

No.	Frequency (MHz)		Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	30.35	9.59	39.94	54.00	-14.06	AVG

2497.00

2507.00

2517.00

2527.00

Remarks:

0.0

2447.000 2457.00

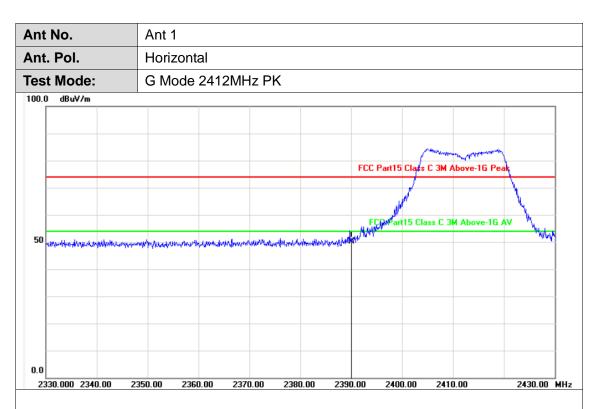
- 1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2.Margin value = Level -Limit value

2467.00

2477.00





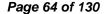


No.	Frequency (MHz)		Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	30.01	20.10	50.11	74.00	-23.89	peak

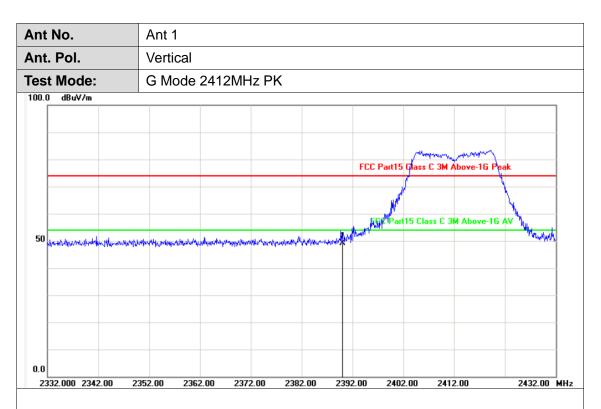
Remarks:

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





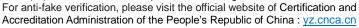




No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	30.01	19.20	49.21	74.00	-24.79	peak

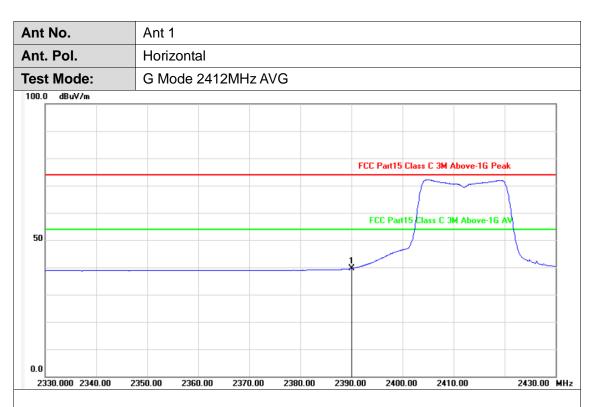
Remarks:

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





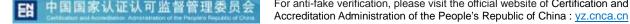


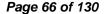


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	30.01	9.61	39.62	54.00	-14.38	AVG

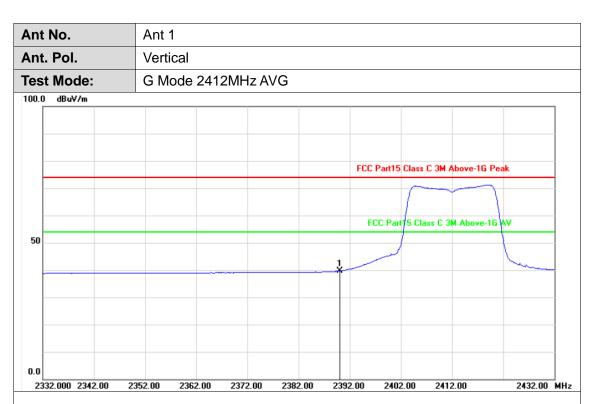
Remarks:

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









No.	Frequency (MHz)	l	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	30.01	9.61	39.62	54.00	-14.38	AVG

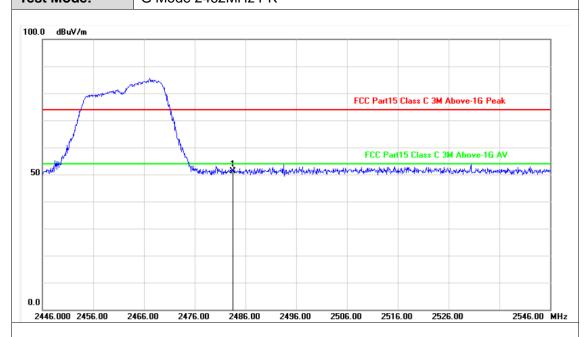
Remarks:

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





Ant No. Ant 1
Ant. Pol. Horizontal
Test Mode: G Mode 2462MHz PK



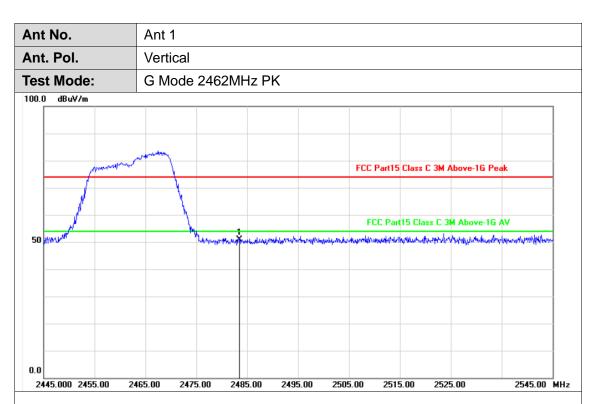
No.	Frequency (MHz)		Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	30.35	20.72	51.07	74.00	-22.93	peak

Remarks:

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





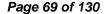


No.	Frequency (MHz)	l .	_	Level (dBuV/m)	l	Margin (dB)	Detector
1	2483.500	30.35	20.48	50.83	74.00	-23.17	peak

Remarks:

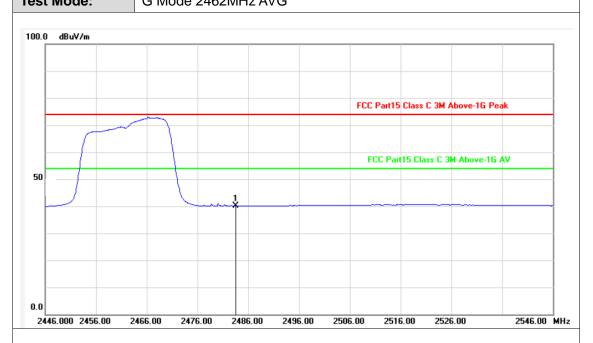
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor







Ant No. Ant 1
Ant. Pol. Horizontal
Test Mode: G Mode 2462MHz AVG



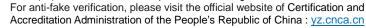
No.	Frequency (MHz)			Level (dBuV/m)		Margin (dB)	Detector
1	2483.500	30.35	9.79	40.14	54.00	-13.86	AVG

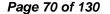
Remarks:

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

2.Margin value = Level -Limit value

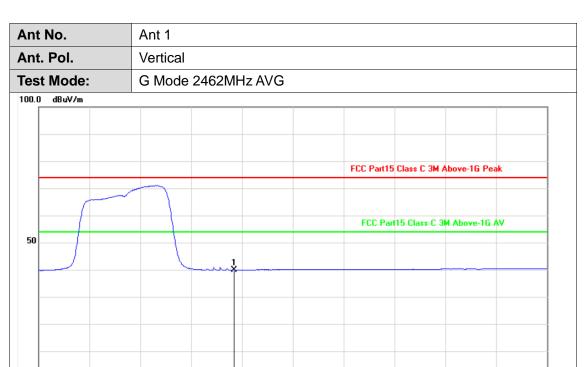
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2545.00 MHz





No.	Frequency (MHz)	l	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	30.35	9.65	40.00	54.00	-14.00	AVG

2495.00

2505.00

2515.00

2525.00

Remarks:

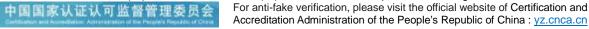
2445.000 2455.00

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

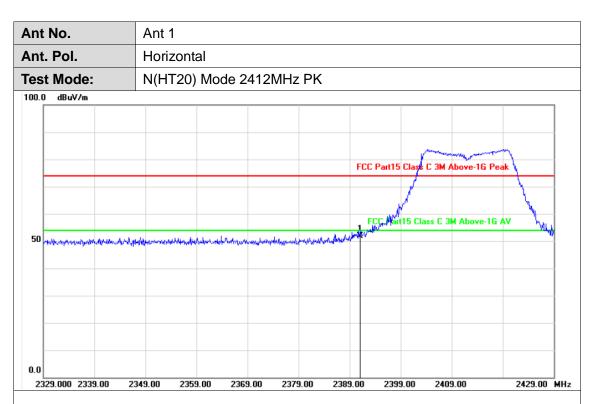
2.Margin value = Level -Limit value

2465.00

2475.00







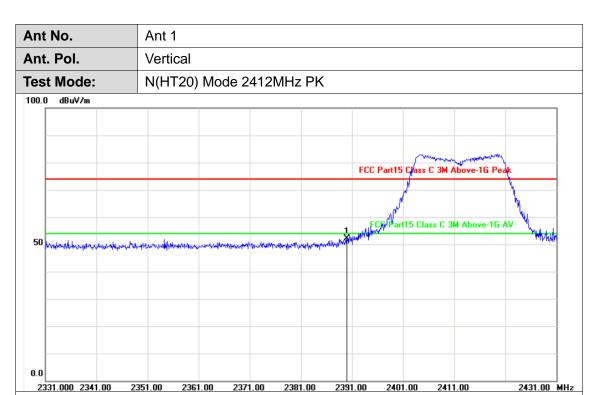
No.	Frequency (MHz)	l	Reading (dBuV)	l	Limit (dBuV/m)	Margin (dB)	Detector
1	2391.000	30.01	21.97	51.98	74.00	-22.02	peak

Remarks:

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







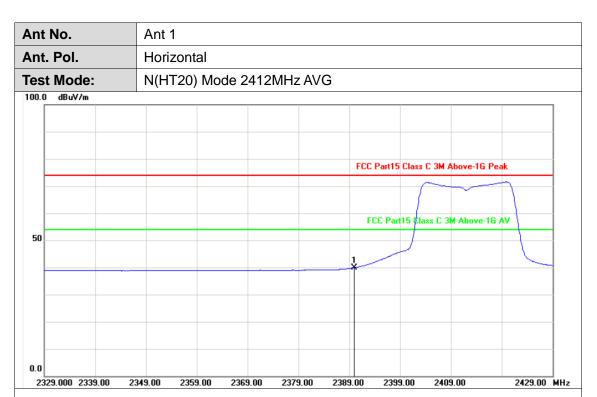
No.	Frequency (MHz)		Reading (dBuV)		Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	30.01	22.00	52.01	74.00	-21.99	peak

Remarks:

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



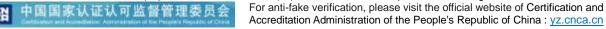




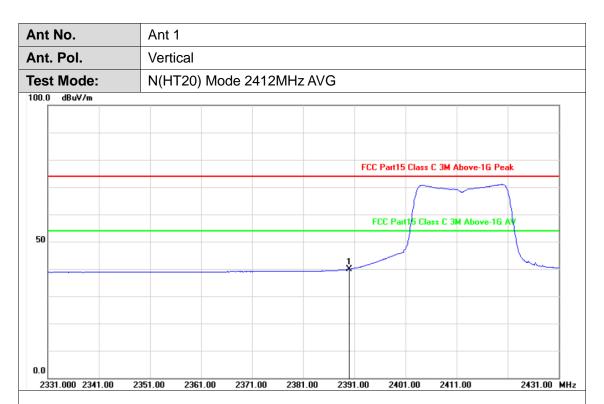
No.	Frequency (MHz)	1	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	30.01	9.92	39.93	54.00	-14.07	AVG

Remarks:

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







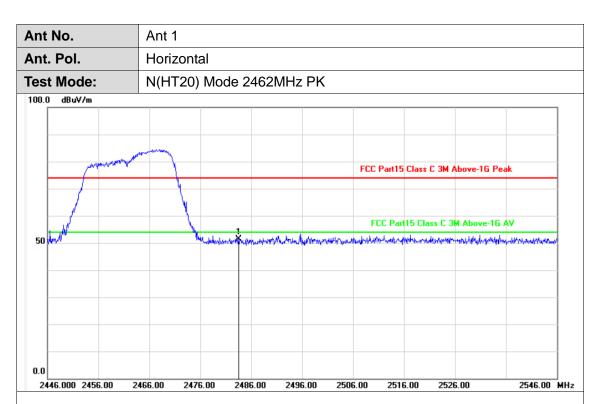
No.	Frequency (MHz)	l	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	30.01	9.91	39.92	54.00	-14.08	AVG

Remarks:

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







No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
1	2483.500	30.35	21.08	51.43	74.00	-22.57	peak	

Remarks:

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





2545.00 MHz



Ant. Pol. Vertical

Test Mode: N(HT20) Mode 2462MHz PK

100.0 dBuV/m

FCC Part15 Class C 3M Above-16 Peak

FCC Part15 Class C 3M Above-16 AV

No.	Frequency (MHz)		_	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
1	2483.500	30.35	20.49	50.84	74.00	-23.16	peak	ĺ

2495.00

2485.00

2505.00

2515.00

2525.00

Remarks:

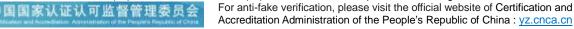
0.0

2445.000 2455.00

2465.00

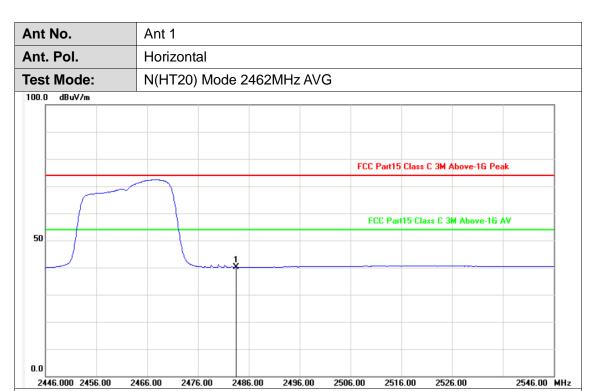
2475.00

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









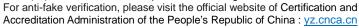
No.	Frequency (MHz)		Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	30.35	9.78	40.13	54.00	-13.87	AVG

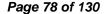
Remarks:

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

2.Margin value = Level -Limit value

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2545.00 MHz



Ant No. Ant 1

Ant. Pol. Vertical

Test Mode: N(HT20) Mode 2462MHz AVG

100.0 dBuV/m

FCC Part15 Class C 3M Above-1G Peak

FCC Part15 Class C 3M Above-1G AV

No.	Frequency (MHz)		Reading (dBuV)		Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	30.35	9.63	39.98	54.00	-14.02	AVG

2495.00

2485.00

2505.00

2515.00

2525.00

Remarks:

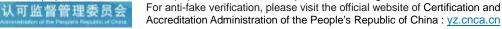
0.0

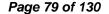
2445.000 2455.00

2465.00

2475.00

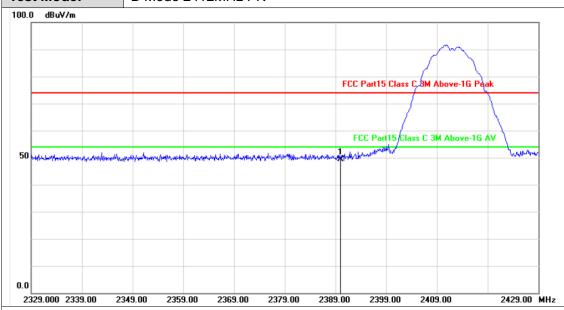
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor







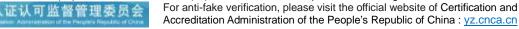




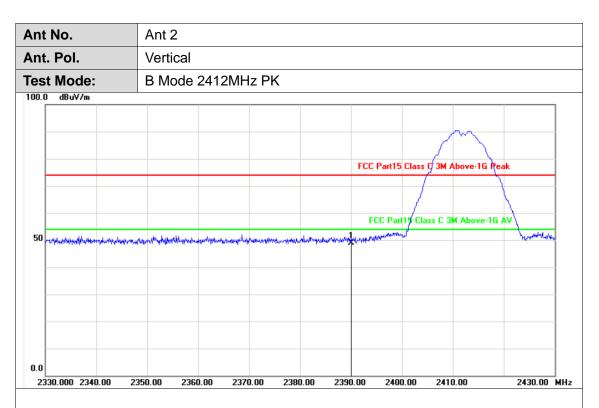
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	30.01	19.25	49.26	74.00	-24.74	peak

Remarks:

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



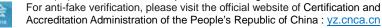


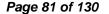


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	30.01	18.87	48.88	74.00	-25.12	peak

Remarks:

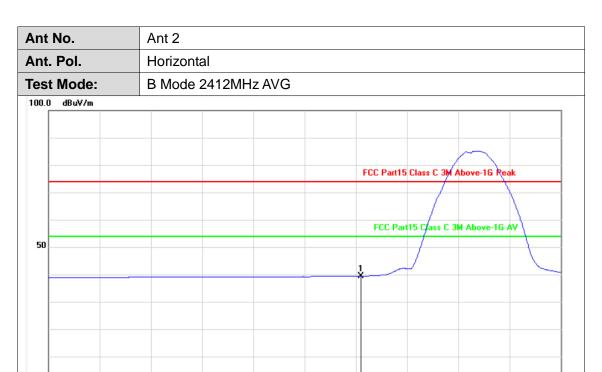
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor





2429.00 MHz





No.	Frequency (MHz)	l	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	30.01	9.40	39.41	54.00	-14.59	AVG

2379.00

2389.00

2399.00

2409.00

Remarks:

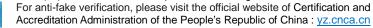
2329.000 2339.00

2349.00

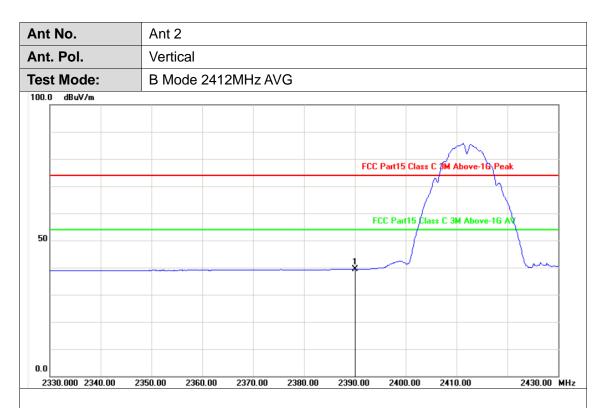
2359.00

2369.00

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



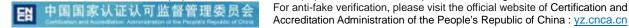




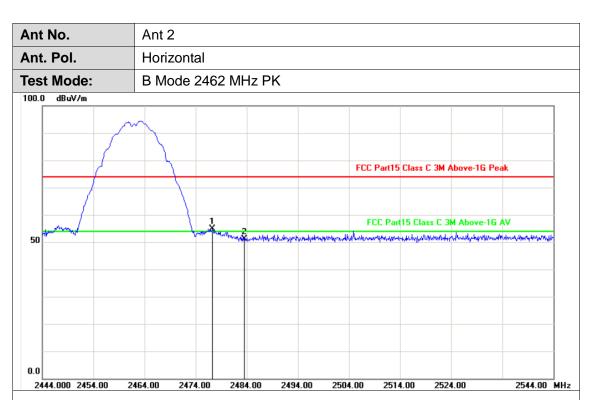
No.	Frequency (MHz)		Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	30.01	9.26	39.27	54.00	-14.73	AVG

Remarks:

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







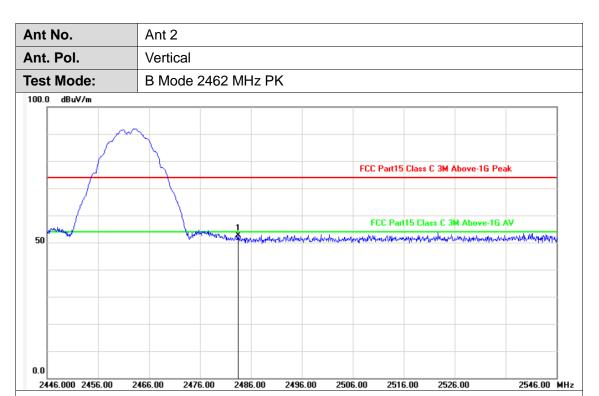
No.	Frequency (MHz)		Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
1	2477.300	30.33	24.47	54.80	74.00	-19.20	peak
2	2483.500	30.35	20.68	51.03	74.00	-22.97	peak

Remarks:

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







No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	30.35	22.38	52.73	74.00	-21.27	peak

Remarks:

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







Ant. Pol. Horizontal

Test Mode: B Mode 2462 MHz AVG

100.0 dBuV/m

FCC Part15 Class C 3M Above-16 Peak

No.	Frequency (MHz)		Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	30.35	10.07	40.42	54.00	-13.58	AVG

2494.00

2504.00

2514.00

2524.00

2544.00 MHz

Remarks:

0.0

2444.000 2454.00

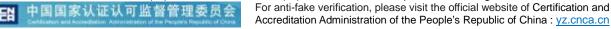
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2484.00

2474.00

2.Margin value = Level -Limit value

2464.00





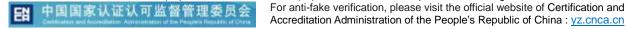




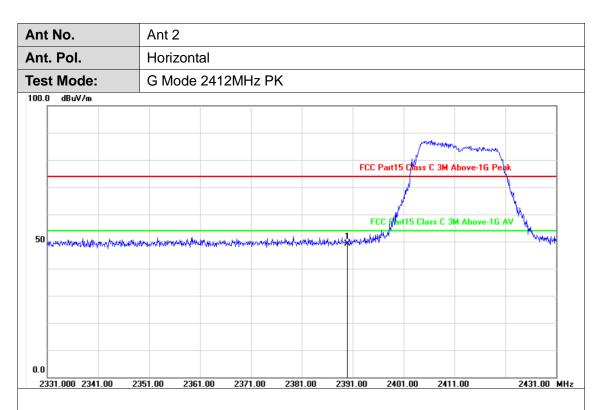
No.	Frequency (MHz)	l	Reading (dBuV)		Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	30.35	9.85	40.20	54.00	-13.80	AVG

Remarks:

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



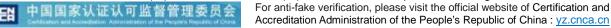




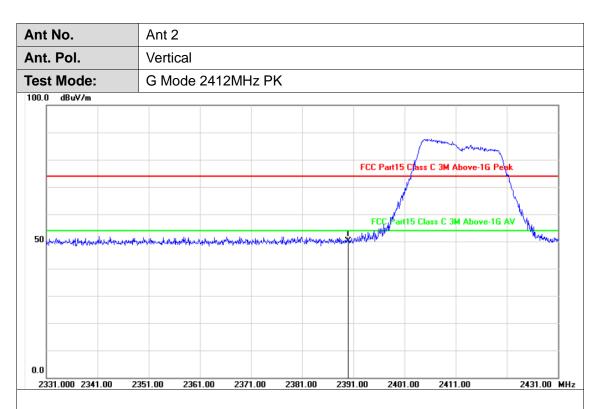
No.	Frequency (MHz)	l	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	30.01	19.18	49.19	74.00	-24.81	peak

Remarks:

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







No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	30.01	20.19	50.20	74.00	-23.80	peak

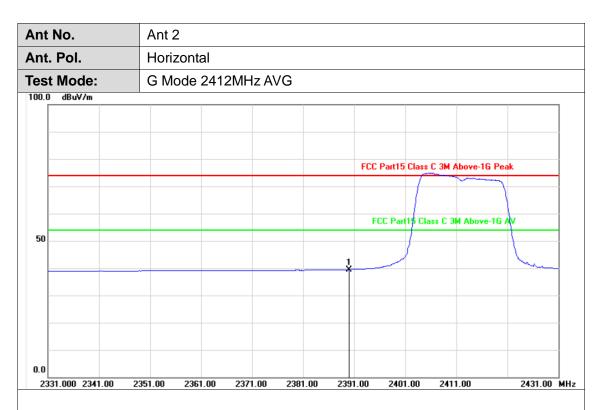
Remarks:

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





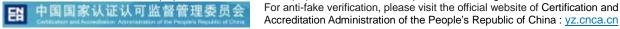


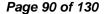


No.	Frequency (MHz)	l .	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	30.01	9.44	39.45	54.00	-14.55	AVG

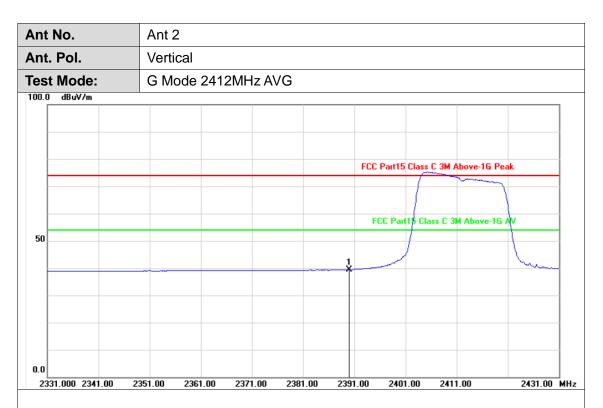
Remarks:

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





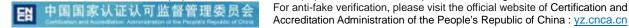




No.	Frequency (MHz)	1	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	30.01	9.41	39.42	54.00	-14.58	AVG

Remarks:

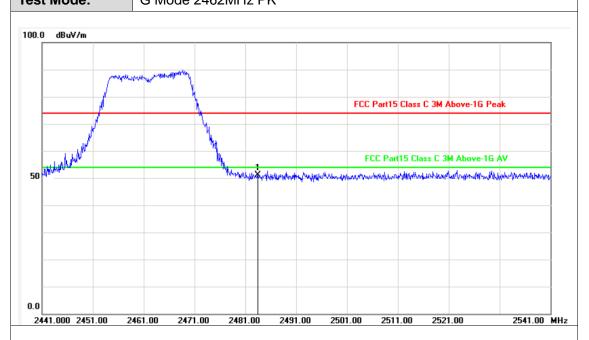
 $1. Factor \ (dB/m) = Antenna \ Factor \ (dB/m) + Cable \ Factor \ (dB) - Pre-amplifier \ Factor$







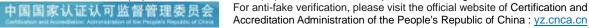
Ant No. Ant 2
Ant. Pol. Horizontal
Test Mode: G Mode 2462MHz PK



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
1	2483.500	30.35	20.71	51.06	74.00	-22.94	peak	

Remarks:

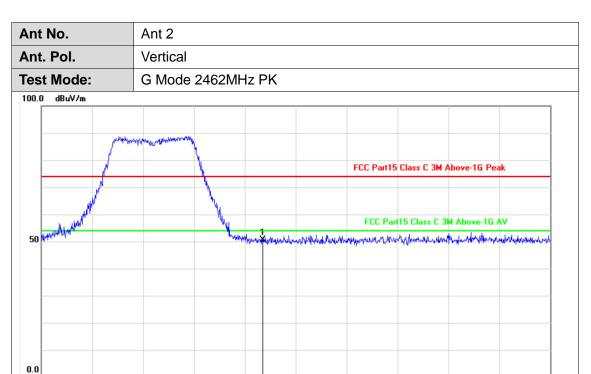
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor





2540.00 MHz





No.	Frequency (MHz)	l	Reading (dBuV)		Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	30.35	20.28	50.63	74.00	-23.37	peak

2490.00

2500.00

2510.00

2520.00

Remarks:

2440.000 2450.00

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

2480.00

2.Margin value = Level -Limit value

2460.00

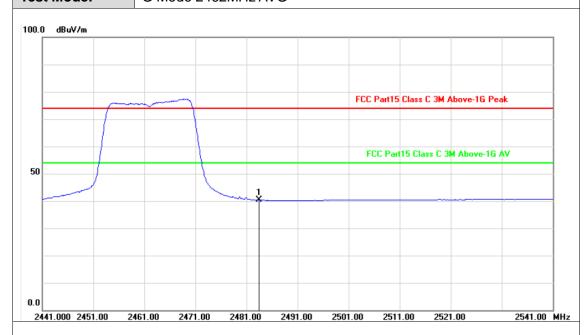
2470.00







Ant No. Ant 2
Ant. Pol. Horizontal
Test Mode: G Mode 2462MHz AVG



No.	Frequency (MHz)	l	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	30.35	9.93	40.28	54.00	-13.72	AVG

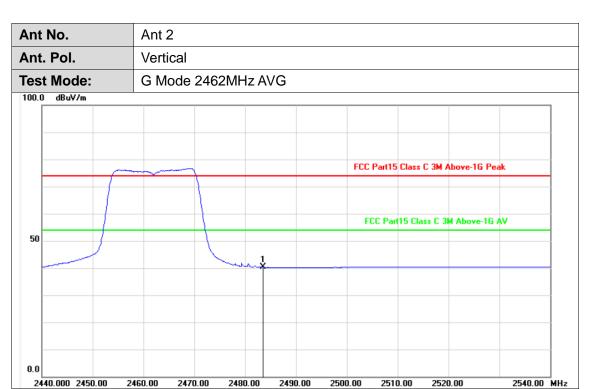
Remarks:

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





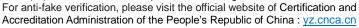




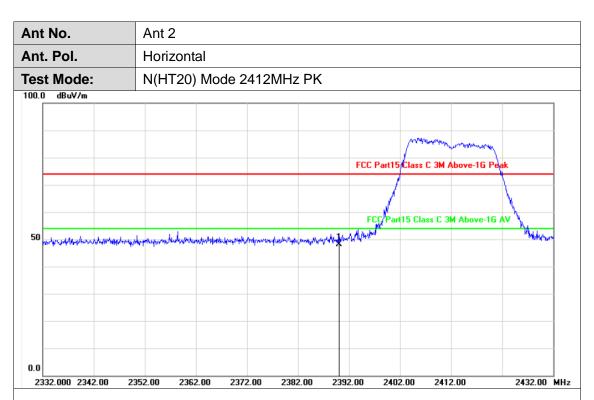
No.	Frequency (MHz)		Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	30.35	9.95	40.30	54.00	-13.70	AVG

Remarks:

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



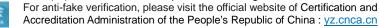




No.	Frequency (MHz)	l .	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	30.01	18.10	48.11	74.00	-25.89	peak

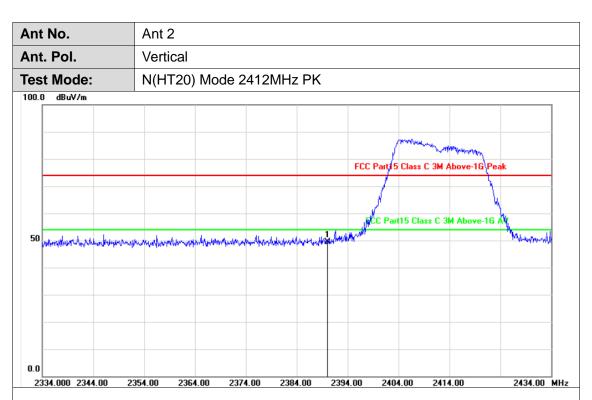
Remarks:

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





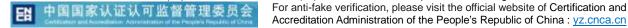




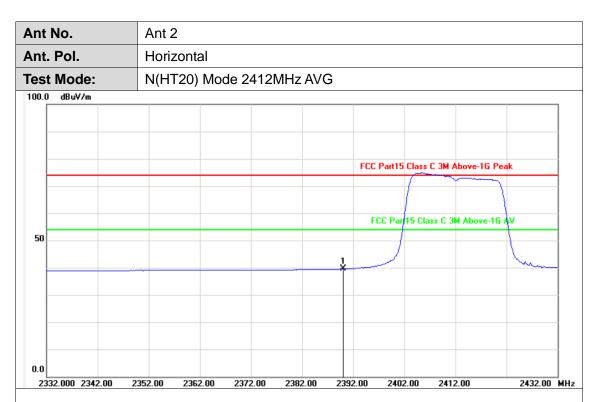
No.	Frequency (MHz)		Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	30.01	19.39	49.40	74.00	-24.60	peak

Remarks:

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



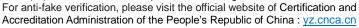


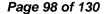


No.	Frequency (MHz)		Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
1	2390.000	30.01	9.53	39.54	54.00	-14.46	AVG	ſ

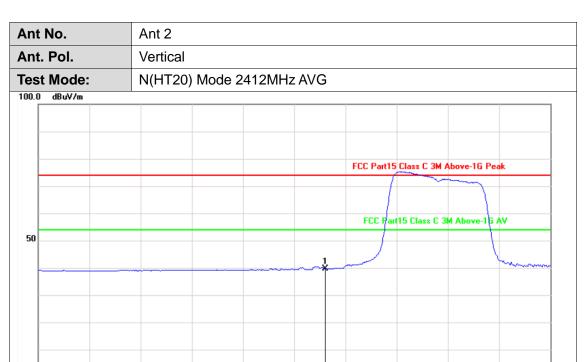
Remarks:

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









No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	30.01	9.58	39.59	54.00	-14.41	AVG

2384.00

2404.00

2394.00

2414.00

2434.00 MHz

Remarks:

0.0

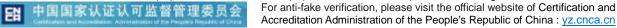
2334.000 2344.00

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

2364.00

2354.00

2374.00







Ant. Pol. Horizontal

Test Mode: N(HT20) Mode 2462MHz PK

100.0 dBuV/m

FCC Part15 Class C 3M Above-16 Peak

FCC Part15 Class C 3M Above-16 AV

No.	Frequency (MHz)		Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	30.35	19.19	49.54	74.00	-24.46	peak

2491.00

2501.00

2511.00

2521.00

2541.00 MHz

Remarks:

2441.000 2451.00

2461.00

2471.00

2481.00

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



2541.00 MHz



Ant. Pol. Vertical

Test Mode: N(HT20) Mode 2462MHz PK

100.0 dBuV/m

FCC Part15 Class C 3M Above-16 Peak

FCC Part15 Class C 3M Above-16 AV

No.	Frequency (MHz)		Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	30.35	20.55	50.90	74.00	-23.10	peak

2491.00

2501.00

2511.00

2521.00

Remarks:

2441.000 2451.00

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

2.Margin value = Level -Limit value

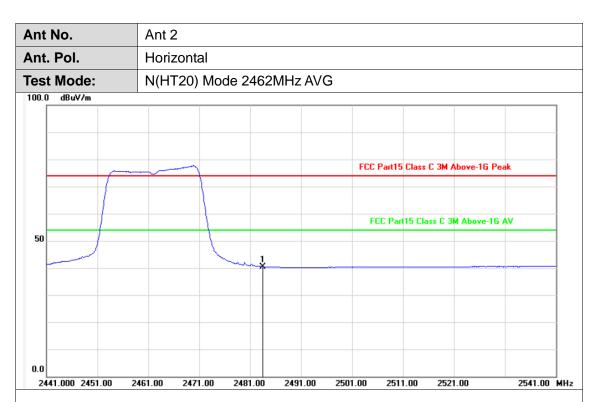
2461.00

2471.00

2481.00







No.	Frequency (MHz)	l	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	30.35	10.11	40.46	54.00	-13.54	AVG

Remarks:

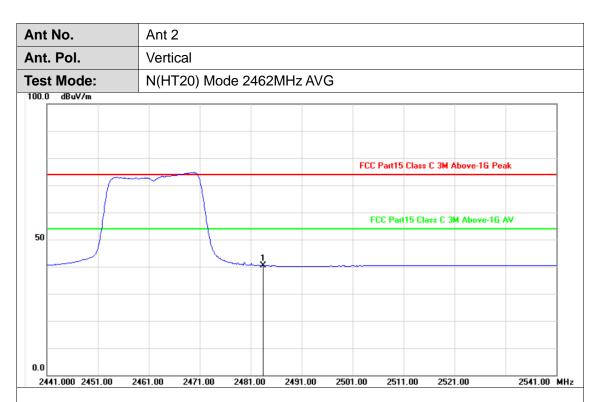
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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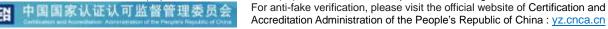




No.	Frequency (MHz)	l	Reading (dBuV)		Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	30.35	10.00	40.35	54.00	-13.65	AVG

Remarks:

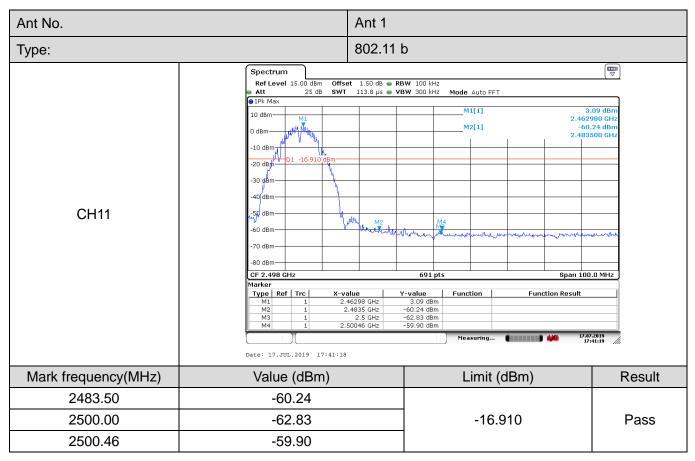
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



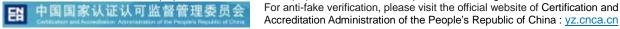


(2) Conducted Test

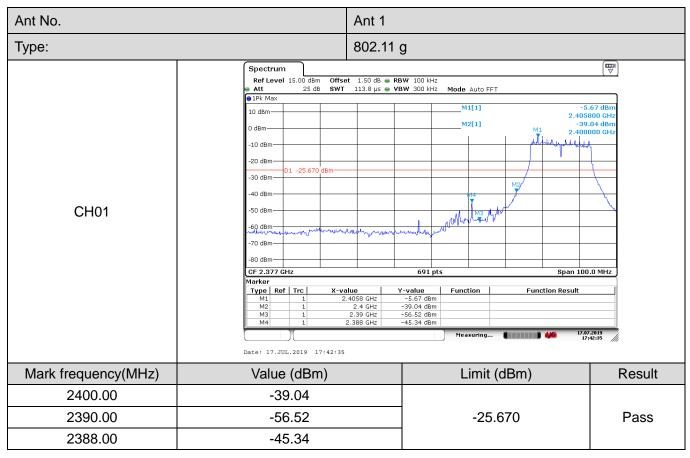
Ant No.		Ant 1			
Type:		802.11 b			
CH01	■ Att 25 dB SWT ■ 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -40 dBm -50 dBm -60 dBm -60 dBm -70 dBm -80 dBm -80 dBm -90 dBm -10 dBm -10 dBm -10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -50 dBm -60 dBm -70 dBm -80 dBm -10	1146 GHz			
Mark frequency(MHz)	Value (dBm)	Limit (dBm) Result			
2400.00	-48.56				
2390.00	-54.76	-16.400 Pass			
2387.87	-49.60				

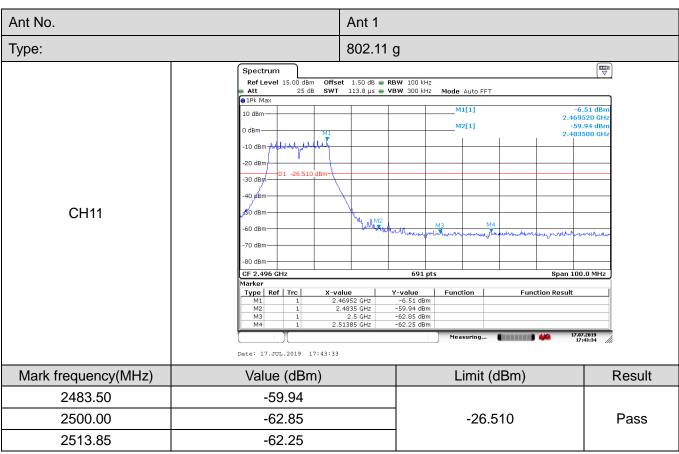


CTC Laboratories, Inc.



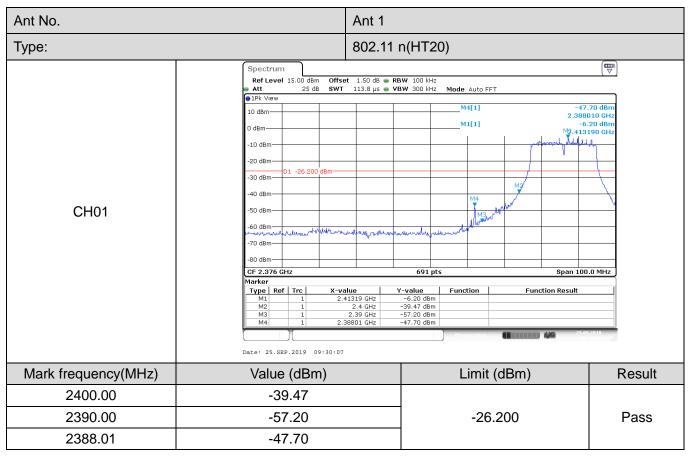


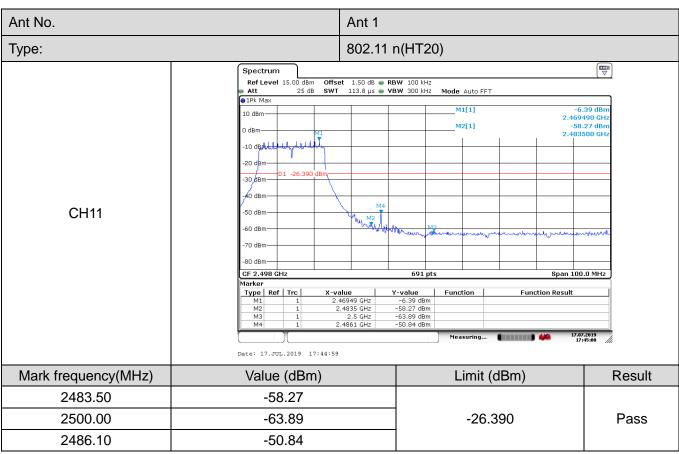






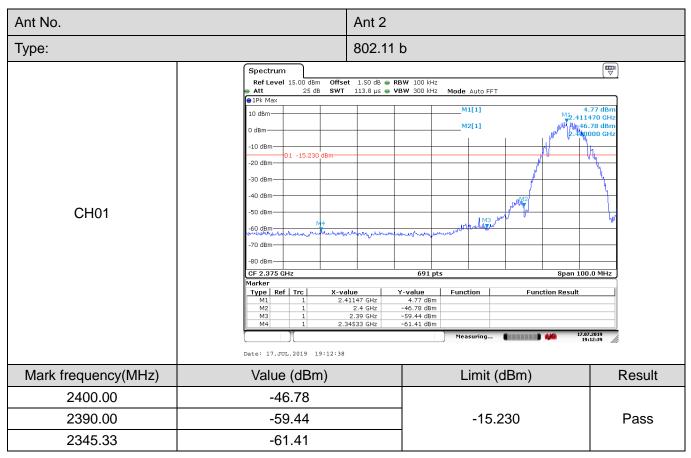


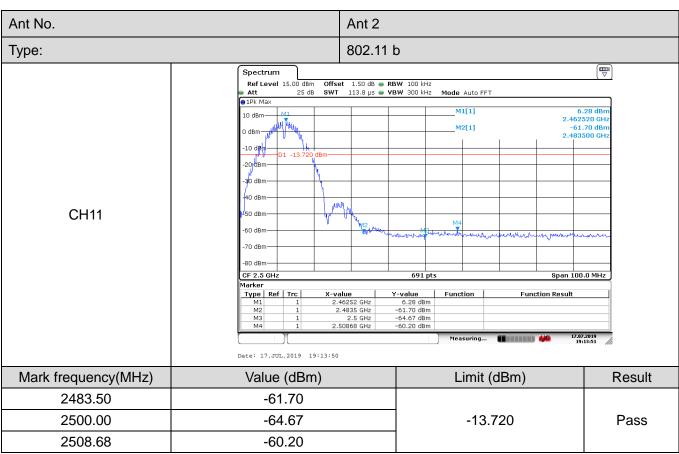






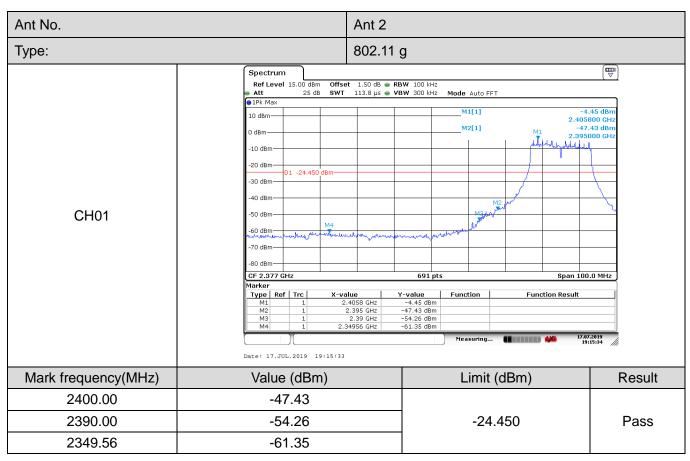


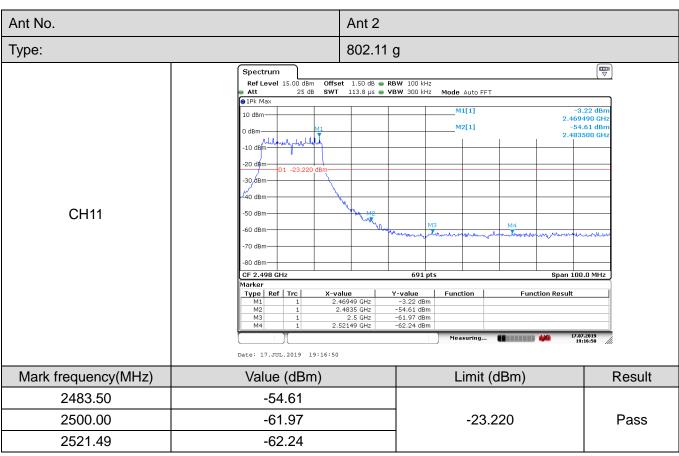




CTC Laboratories, Inc.

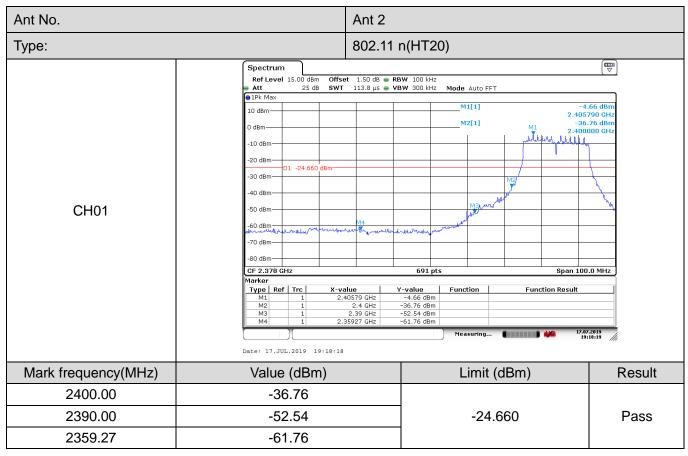


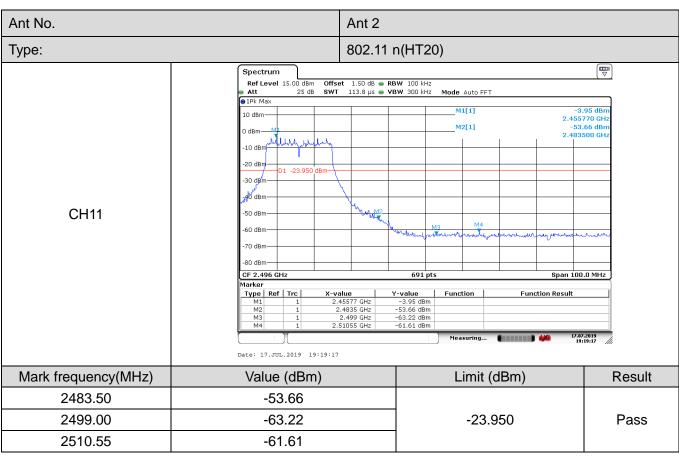














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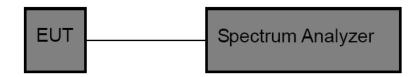
3.4. Bandwidth

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(2)/ RSS-247 5.2 a:

Test Item	Limit	Frequency Range(MHz)
Bandwidth	>=500 KHz (6dB bandwidth)	2400~2483.5

Test Configuration



Test Procedure

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

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

Test Mode

Please refer to the clause 2.3.

Test Results

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Ant No.	Ant 1			
Type	Channel	6dB Bandwidth (MHz)	Limit (kHz)	Result
	01	7.525		
802.11b	06	7.525	≥500	Pass
	11	7.583		
	01	16.208		
802.11g	06	16.353	≥500	Pass
	11	16.353		
	01	17.189		
802.11n(HT20)	06	17.540	≥500	Pass
	11	17.583		

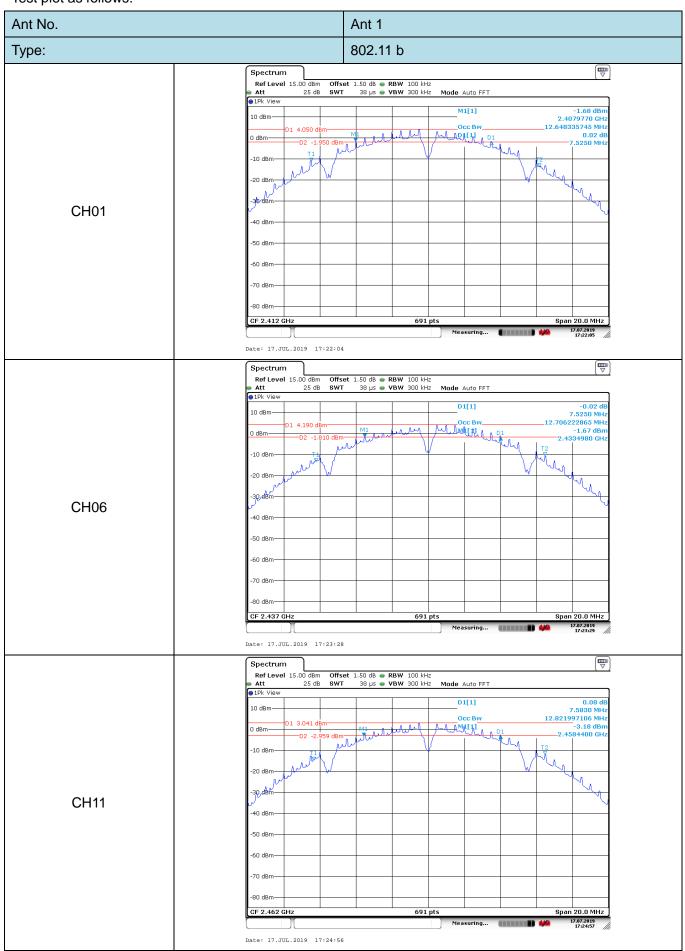
Ant No.	Ant 2			
Type	Channel	6dB Bandwidth (MHz)	Limit (kHz)	Result
	01	7.583		
802.11b	06	7.583	≥500	Pass
	11	7.091		
	01	16.281		
802.11g	06	16.100	≥500	Pass
	11	16.389		
	01	17.192		
802.11n(HT20)	06	17.583	≥500	Pass
	11	17.583		

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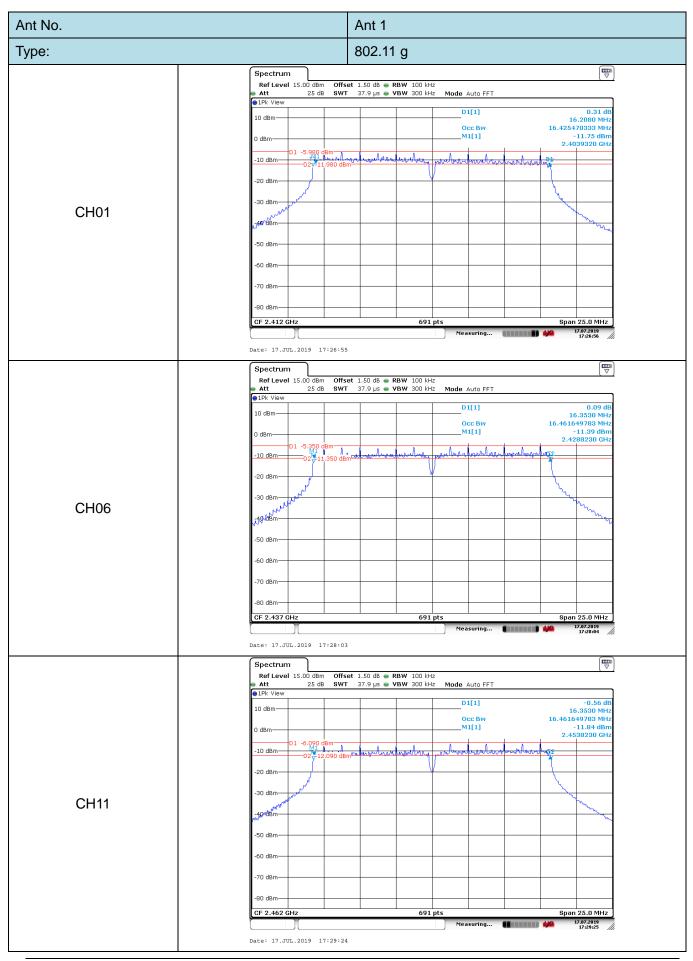


Test plot as follows:



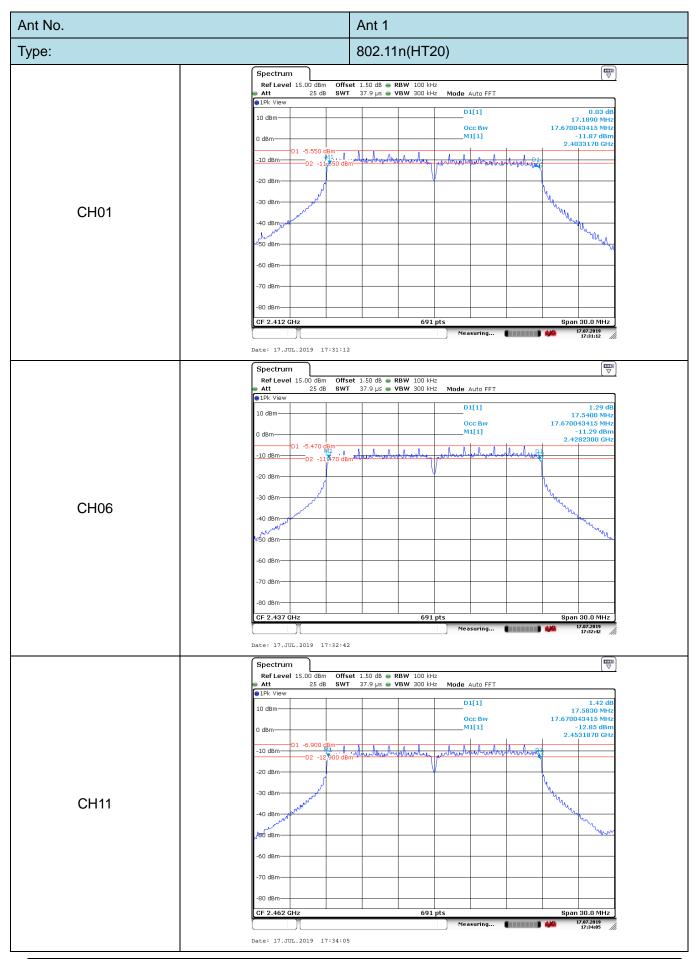
CTC Laboratories, Inc.





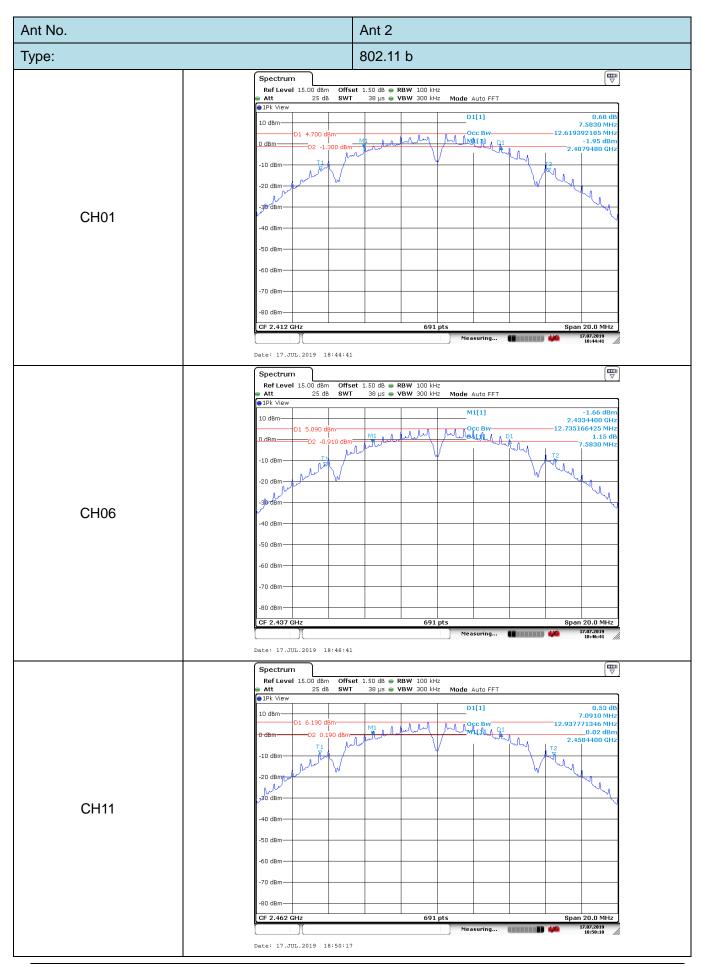






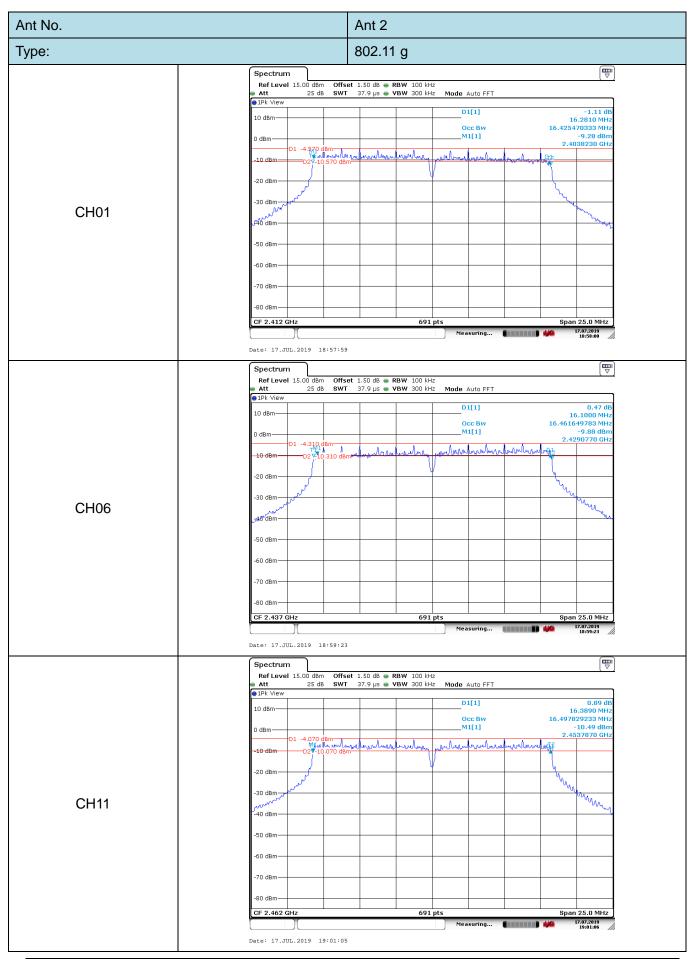
CTC Laboratories, Inc.







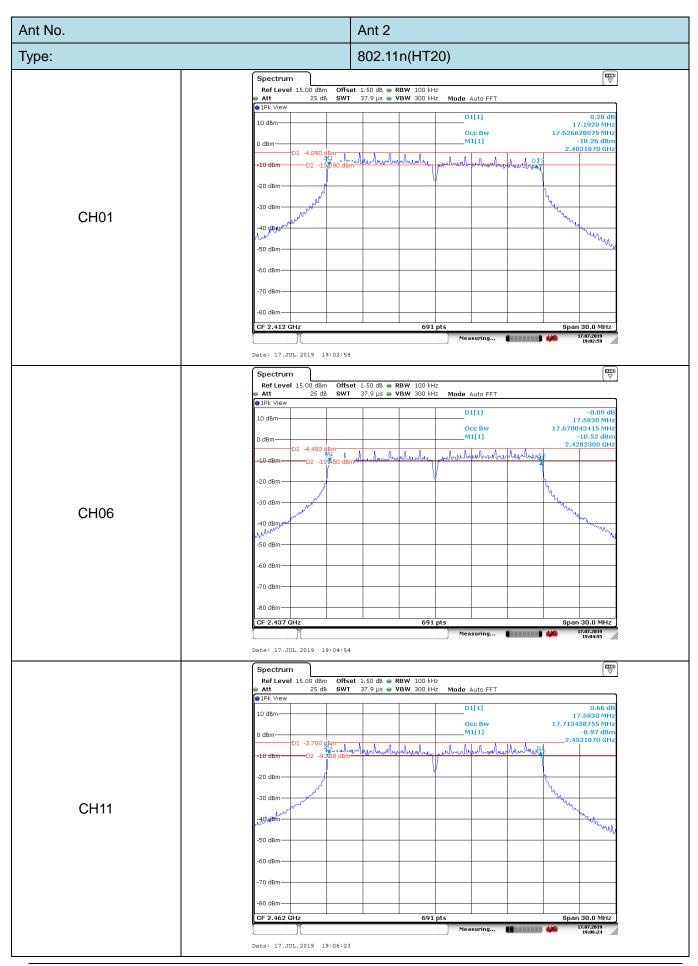




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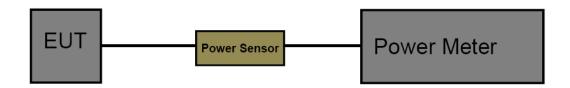
3.5. Peak Output Power

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3)/ RSS-247 5.4:

Section	Test Item	Limit	Frequency Range(MHz)
CFR 47 FCC 15.247(b)(3)	Maximum conducted output power	1 Watt or 30dBm	2400~2483.5
ISED RSS-247 5.4 d	EIRP	4 Watt or 36dBm	2400~2483.5

Test Configuration



Test Procedure

- 1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- Spectrum Setting:

Peak Detector: RBW≥DTS Bandwidth, VBW≥3*RBW.

Sweep time=Auto.

Detector=Peak.

Trace mode=Maxhold.

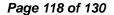
Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

Test Mode

Please refer to the clause 2.2

Test Result

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Ant No.	Ant 1			
Туре	Channel	Output power (dBm)	Output power (EIRP)	Result
	01	14.70	16.20	
802.11b	06	15.12	16.62	Pass
	11	14.07	15.57	
	01	13.43	14.93	
802.11g	06	13.88	15.38	Pass
	11	13.07	14.57	
	01	13.44	14.94	
802.11n(HT20)	06	13.86	15.36	Pass
	11	12.76	14.26	

Ant No.	Ant 2			
Type	Channel	Output power (dBm)	Output power (EIRP)	Result
	01	15.58	17.08	
802.11b	06	15.92	17.42	Pass
	11	16.80	18.30	
	01	14.54	16.04	
802.11g	06	15.02	16.52	Pass
	11	15.55	17.05	
	01	14.51	16.01	
802.11n(HT20)	06	14.92	16.42	Pass
	11	15.59	17.09	

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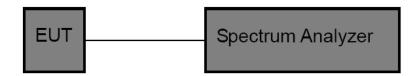


3.6. Power Spectral Density

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (e)/ RSS-247 5.2 b:

Test Item	Limit	Frequency Range(MHz)
Power Spectral Density	8dBm(in any 3 kHz)	2400~2483.5

Test Configuration



Test Procedure

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v05r02.
- Spectrum Setting:

Set analyser center frequency to DTS channel center frequency.

Set the span to 1.5 times the DTS bandwidth.

Set the RBW to: 3 kHz Set the VBW to: 10 kHz

Detector: peak Sweep time: auto

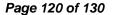
Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

Test Mode

Please refer to the clause 2.2

Test Result

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





Ant No.	Ant 1			
Туре	Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
	01	-9.21		
802.11b	06	-9.88	≤8.00	Pass
	11	-9.79		
	01	-17.84		
802.11g	06	-18.07	≤8.00	Pass
	11	-20.20		
	01	-18.52		
802.11n(HT20)	06	-18.42	≤8.00	Pass
	11	-19.45		

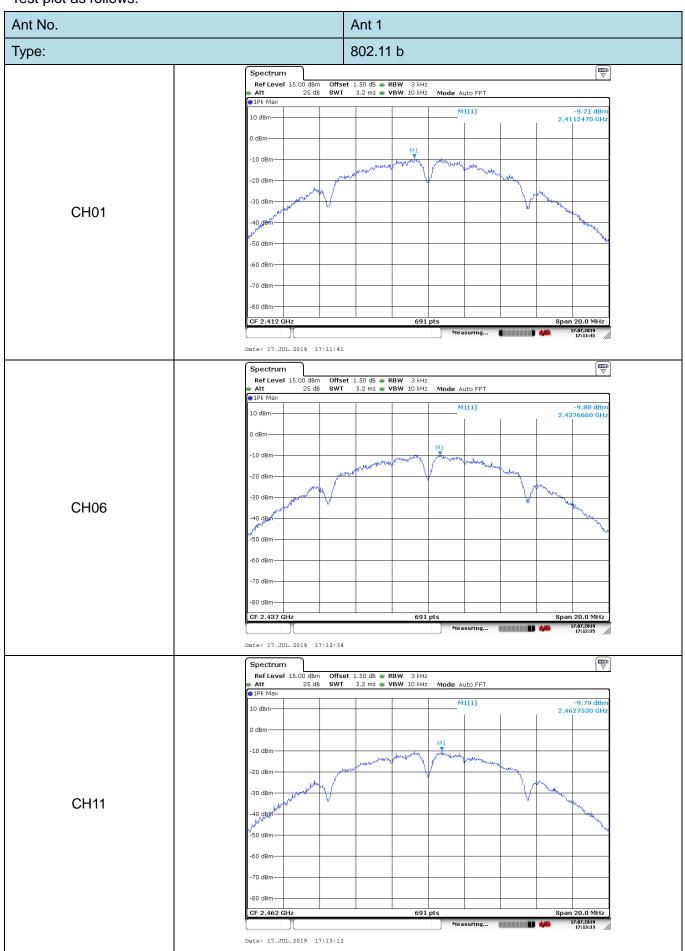
Ant No.	Ant 2			
Туре	Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
	01	-8.23		
802.11b	06	-8.22	≤8.00	Pass
	11	-7.87		
	01	-17.04		
802.11g	06	-15.72	≤8.00	Pass
	11	-15.79		
	01	-18.30		_
802.11n(HT20)	06	-17.37	≤8.00	Pass
	11	-16.96		

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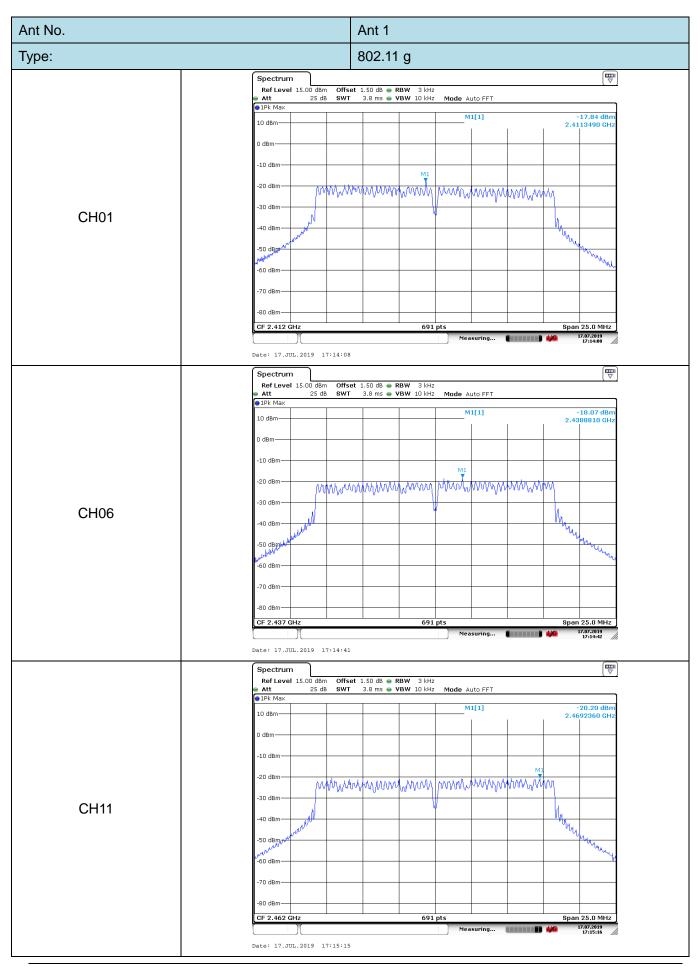
Test plot as follows:



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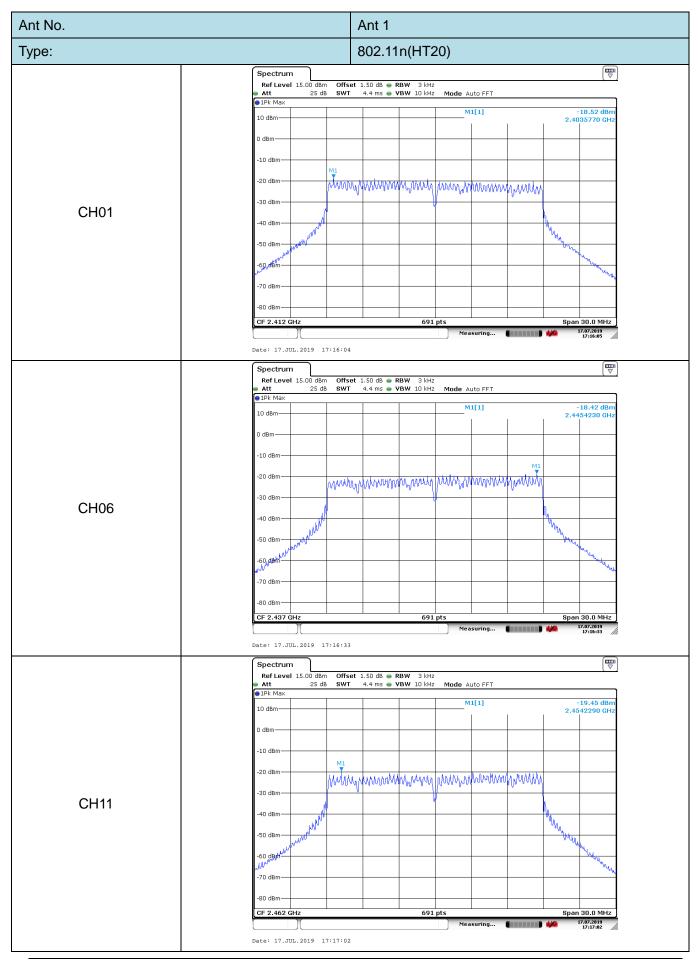








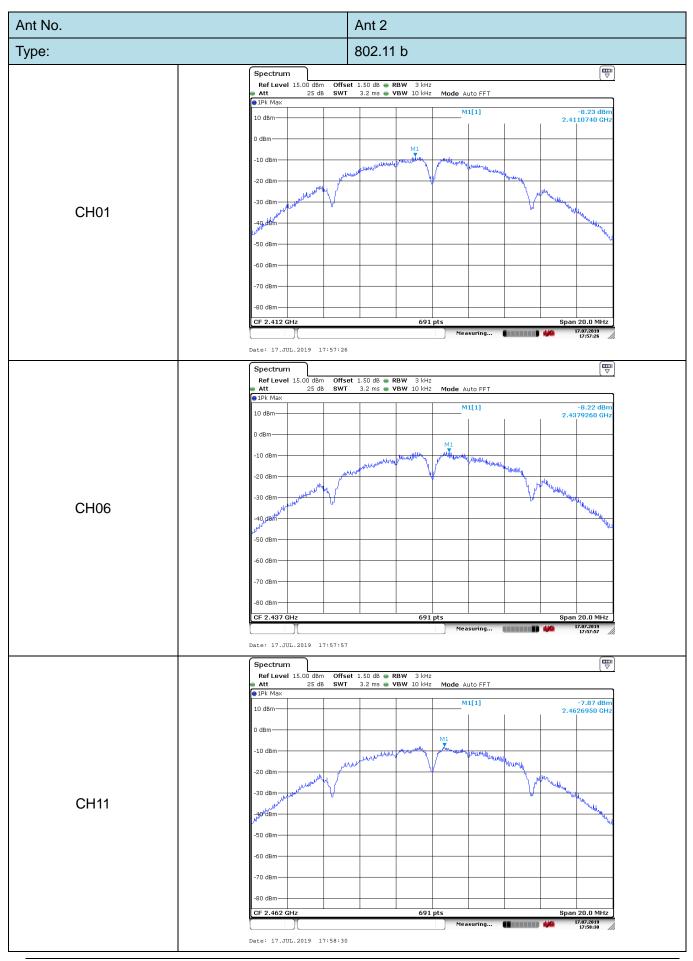




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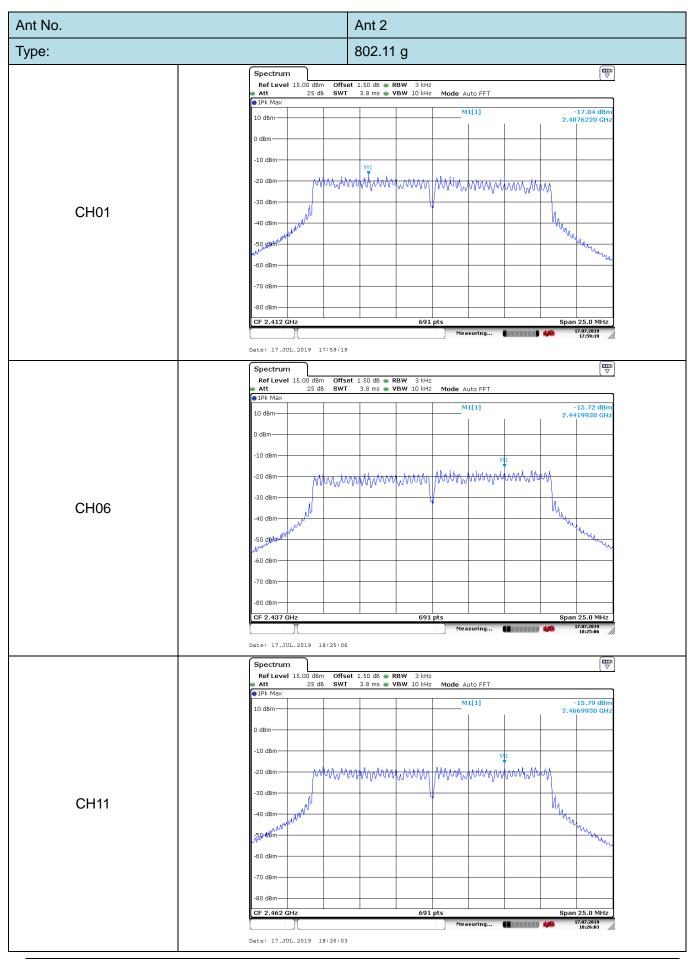






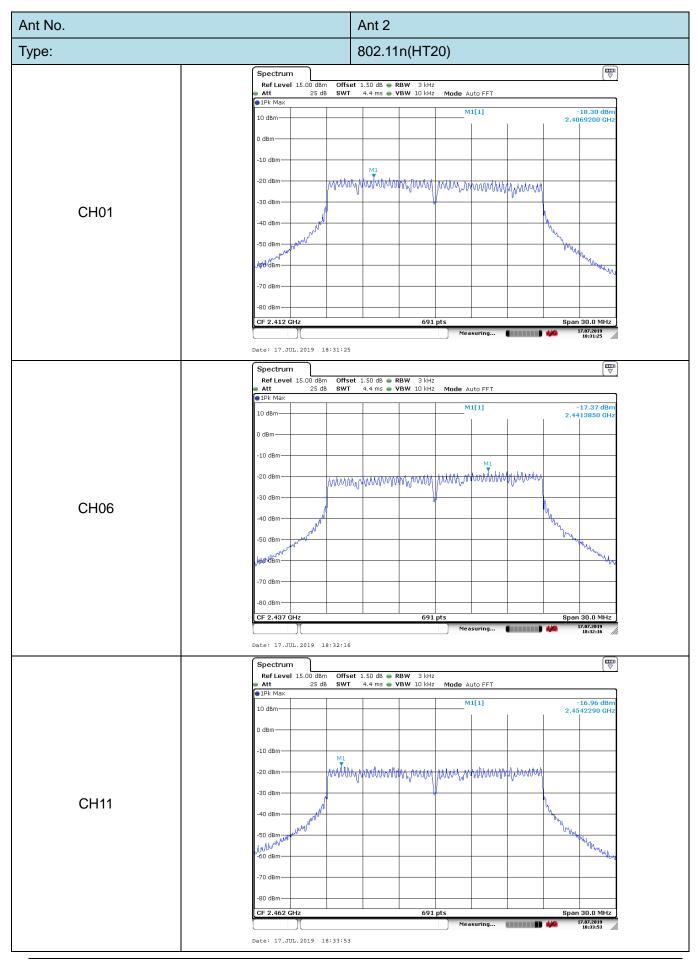












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3.7. Antenna requirement

Requirement

FCC CFR Title 47 Part 15 Subpart C Section 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

(i) Systems operating in the 2400~2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

Test Result

The directional gain of the antenna less than 6dBi, please refer to the EUT internal photographs antenna photo.