KSIGN (Guangdong) Testing Co., Ltd.

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TEST REPORT

Report No. KS2009S01073E

FCC ID-----: 2AT9W-MT200

Applicant SHENZHEN CLOBOT INTELLIGENT TECHNOLOGY CO., LTD.

Address Area A&B, 7/F, Building 1, SZZT Industrial Park, No.3 Tongguan Road.

Yutang Street, Guangming New District, Shenzhen, China

Manufacturer SHENZHEN CLOBOT INTELLIGENT TECHNOLOGY CO., LTD.

Address Area A&B, 7/F, Building 1, SZZT Industrial Park, No.3 Tongguan Road,

Yutang Street, Guangming New District, Shenzhen, China

sangdong) To Rory

Product Name······: Robotic Vacuum Cleaner

Trade Mark·····: /

Model/Type reference MT-200

Listed Model(s) MT-210; MT-220; MT-230; MT-240; MT-250; MT-260; MT-270; MT-280;

MT-290

Standard FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of receipt of test sample...: Sep. 15, 2020

Date of testing...... Sep. 15, 2020-Sep. 29, 2020

Date of issue...... Sep. 29, 2020

Result..... PASS

Compiled by:

(Printed name+signature) Rory Huang

Supervised by:

(Printed name+signature) Kelly Cheng

Approved by:

(Printed name+signature) Cary Luo

Testing Laboratory Name·····: KSIGN(Guangdong) Testing Co., Ltd.

Address...... West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu

Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen,

Guangdong, People's Republic of China

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1. TEST SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.247: Operation within the bands of 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. 29, 2020	Original



1.3. Test Description

FCC Part 15 Subpart C(15.247)				
	Standard Section	- ·	Test Engineer	
Test Item	FCC	Result		
Antenna Requirement	15.203	Pass	Rory Huang	
Conducted Emission	15.207	Pass	Rory Huang	
6dB&99% Bandwidth	15.247(a)(2)	Pass	Rory Huang	
Peak Output Power	15.247(b)	Pass	Rory Huang	
Power Spectral Density	15.247(e)	Pass	Rory Huang	
Restricted Band	15.247(d)/15.205	Pass	Rory Huang	
Band Edge and Spurious Emission(Conducted)	15.247(d)	Pass	Rory Huang	
Spurious Emission(Radiated)	15.247(d)&15.209	Pass	Rory Huang	

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





1.4. Test Facility

Address of the report laboratory

KSIGN(Guangdong) Testing Co., Ltd.

West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, People's Republic of China

Laboratory accreditation

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

CNAS-Lab Code: L13261

KSIGN(Guangdong) Testing Co., Ltd. has been assessed and proved to be in Compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No.: 5457.01

KSIGN(Guangdong) Testing Co., Ltd. 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.

IC Registration No.: CN0096

The 3m alternate test site of KSIGN(Guangdong) Testing Co., Ltd. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: CN0096

FCC-Registration No.: CN1272

KSIGN(Guangdong) Testing Co., Ltd. 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.



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 KSIGN(Guangdong) Testing Co., Ltd. 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 KSIGN(Guangdong) Testing Co., Ltd.

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	2.80 dB	(1)

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

1.6. Environmental conditions

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

Temperature:	15~35°C
Relative Humidity:	30~60 %
Air Pressure:	950~1050mba



2. GENERAL INFORMATION

2.1. Client Information

Applicant:	SHENZHEN CLOBOT INTELLIGENT TECHNOLOGY CO., LTD.
Address:	Area A&B, 7/F, Building 1, SZZT Industrial Park, No.3 Tongguan Road, Yutang Street, Guangming New District, Shenzhen, China
Manufacturer:	SHENZHEN CLOBOT INTELLIGENT TECHNOLOGY CO., LTD.
Address:	Area A&B, 7/F, Building 1, SZZT Industrial Park, No.3 Tongguan Road, Yutang Street, Guangming New District, Shenzhen, China

2.2. General Description of EUT

Product Name:	Robotic Vacuum Cleaner
Trade Mark:	
Model/Type reference:	MT-200
Listed Model(s):	MT-210; MT-220; MT-230; MT-240; MT-250; MT-260; MT-270; MT-280; MT-290
Model Different:	The difference between product models only depends on the model naming and appearance color are different for the marketing requirement. Other power supply methods, interior structure, electrical circuits and key components are the same, which do not affect the safety and electromagnetic compatibility performance.
Power supply:	MODEL:CZH015190060EUWH INPUT:100-240V~50/60Hz 0.5A Max OUTPUT:19.0V 0.6A 11.4W
Power supply(Battery):	DC 12.8V 1800mAh 23.04Wh
Hardware version:	V2.0
Software version:	1.0.6
WIFI	
Modulation:	802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g/n: OFDM(BPSK,QPSK,16QAM,64QAM)
Operation frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz
Max Peak Output Power:	802.11b: 13.6dBm 802.11g: 11.64dBm 802.11n (HT20): 9.51dBm 802.11n (HT40): 8.43dBm
Channel number:	802.11b/g/n(HT20):11 channels 802.11n(HT40):7 channels
Test frequency:	CH01/03: 2412MHz/2422MHz; CH06: 2437MHz; CH09/11: 2452MHz/2462MHz
Channel separation:	5MHz
Antenna type:	PCB antenna
Antenna gain:	2.5dBi



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: 1.CH 01~CH 11 for 802.11b/g/n(HT20/HT40), CH03~CH09 for 802.11n(HT40).

2. 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.



2.4. Measurement Instruments List

	Tonscend JS0806-2 Test system				
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
1	Spectrum Analyzer	R&S	FSV40-N	101798	04/07/2021
2	Vector Signal Generator	Agilent	N5182A	MY50142520	04/07/2021
3	Analog Signal Generator	HP	83752A	3344A00337	04/07/2021
4	Power Sensor	Agilent	E9304A	MY50390009	04/07/2021
5	Power Sensor	Agilent	E9300A	MY41498315	04/07/2021
6	Wideband Radio Communication Tester	R&S	CMW500	157282	04/07/2021
7	Climate Chamber	Angul	AGNH80L	1903042120	04/07/2021
8	Dual Output DC Power Supply	Agilent	E3646A	MY40009992	04/07/2021
9	RF Control Unit	Tonscend	JS0806-2	$I = I_0$	04/07/2021

	Transmitter spurious emissions & Receiver spurious emissions				
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
1	EMI Test Receiver	R&S	ESR	102525	04/07/2021
2	High Pass Filter	Chengdu E-Microwave	OHF-3-18-S	0E01901038	03/27/2021
3	High Pass Filter	Chengdu E-Microwave	OHF-6.5-18-S	0E01901039	03/27/2021
4	Spectrum Analyzer	HP	8593E	3831U02087	04/07/2021
5	Ultra-Broadband logarithmic period Antenna	Schwarzbeck	VULB 9163	01230	03/29/2023
6	Loop Antenna	Beijin ZHINAN	ZN30900C	18050	03/25/2021
7	Spectrum Analyzer	R&S	FSV40-N	101798	04/07/2021
8	Horn Antenna	Schwarzbeck	BBHA 9120 D	2023	03/29/2023
9	Pre-Amplifier	Schwarzbeck	BBV 9745	9745#129	04/07/2021
10	Pre-Amplifier	EMCI	EMC051835SE	980662	04/07/2021
11	Pre-Amplifier	Schwarzbeck	BBV-9721	57	04/07/2021
12	Horn Antenna	Schwarzbeck	BBHA 9170	00939	03/29/2021

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	LISN	R&S	ENV432	1326.6105.02	03/27/2021
2	EMI Test Receiver	R&S	ESR	102524	04/07/2021
3	Manual RF Switch	JS TOYO	1	MSW-01/002	04/07/2021

¹⁾The Cal. Interval was one year.
2)The cable loss has calculated in test result which connection between each test instruments.



2.5. Test Software

Software name	Model	Version
Conducted emission Measurement Software	EZ-EMC	EMC-Con 3A1.1
Radiated emission Measurement Software	EZ-EMC	FA-03A.2.RE
Bluetooth and WIFI Test System	JS1120-3	2.5.77.0418





3. TEST ITEM AND RESULTS

3.1. 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 an 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.

Note: The antenna is permanently fixed to the EUT



3.2. Conducted Emission

Limit

Conducted Emission Test Limit

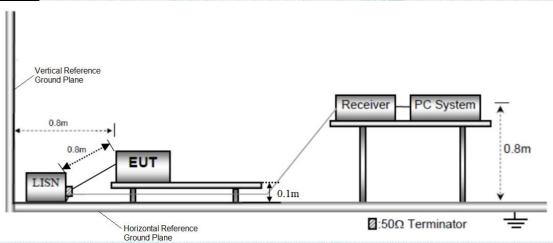
Report No.: KS2009S01073E

E-could have	Maximum RF Line Voltage (dBμV)	
Frequency	Quasi-peak Level	Average Level
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
500kHz~5MHz	-56	46
5MHz~30MHz	60	50

Notes:

- (1) *Decreasing linearly with logarithm of the frequency.
- (2) The lower limit shall apply at the transition frequencies.
- (3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

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 0.1m above the conducting ground plane. The vertical conducting plane was located 80 cm to the rear of the EUT. All other surfaces of EUT were at least 0.8m 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.

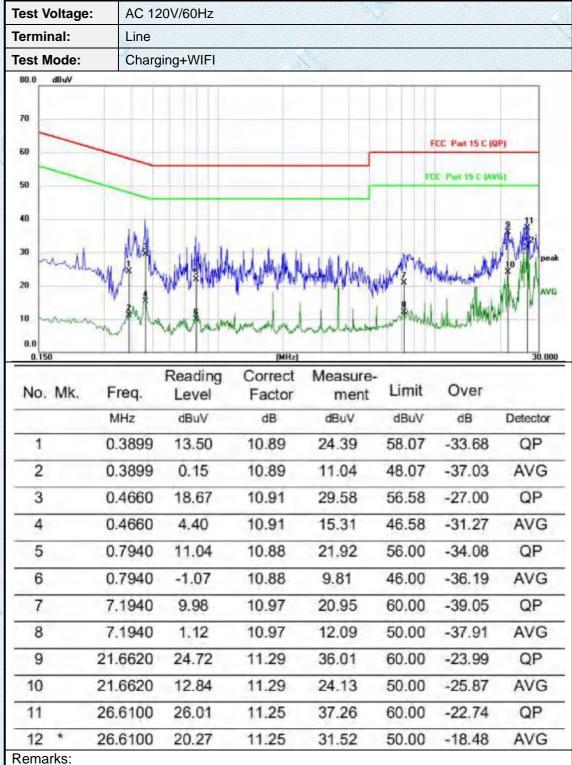
Test Mode:

Please refer to the clause 2.3.

Test Results

Pre-scan 802.11b/g/n(HT20/HT40) modulation, and found the 802.11b modulation 2412MHz which it is worse case, so only show the test data for worse case.

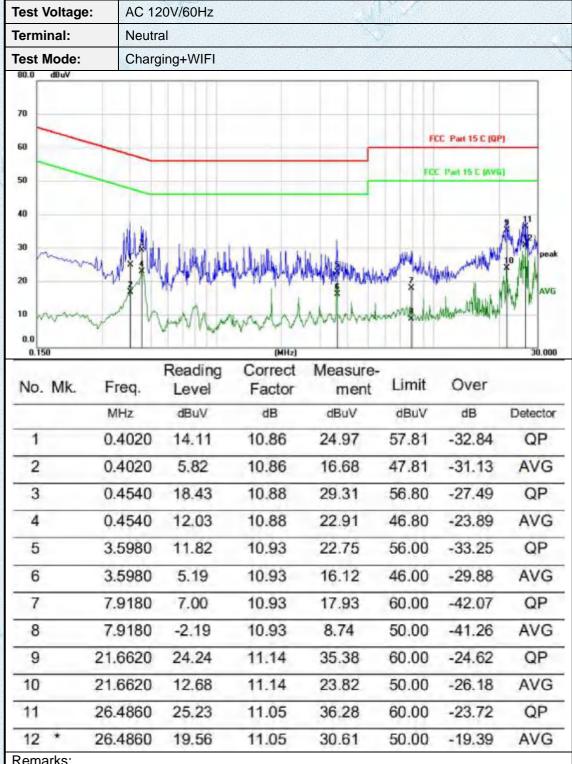




^{1.}Measurement = Reading Level+ Correct Factor

^{2.}Over = Measurement -Limit





Remarks:

^{1.}Measurement = Reading Level+ Correct Factor

^{2.}Over = Measurement -Limit

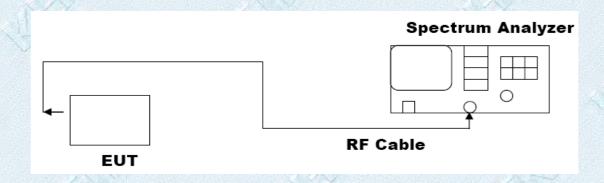


3.3. Bandwidth

Limit

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

Test Configuration



Test Procedure

- Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator:
 6db Bandwidth
 - (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.

99% Bandwidth

- (1) Set RBW = 500 kHz.
- (2) Set the video bandwidth (VBW) =2MHz.
- (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



Test Mode:	802.11b Mode	
Channel frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
2412	10.120	
2437	9.680	>=0.5
2462	10.120	









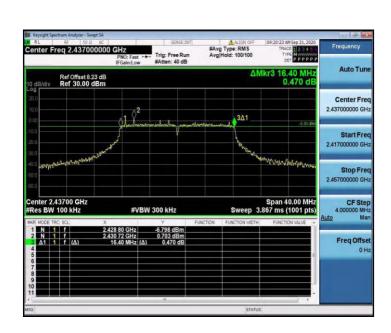


Test Mode:	802.11g Mode	
Channel frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
2412	16.360	
2437	16.400	>=0.5
2462	16.400	









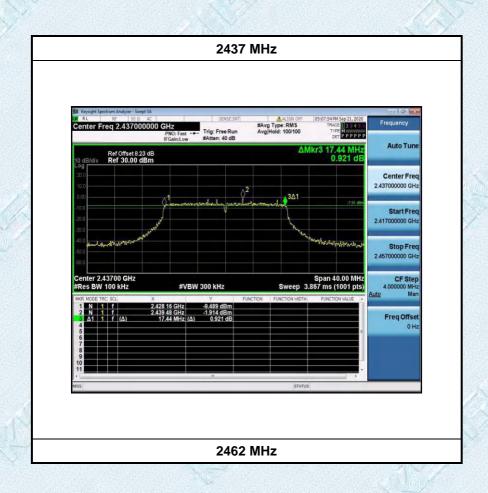




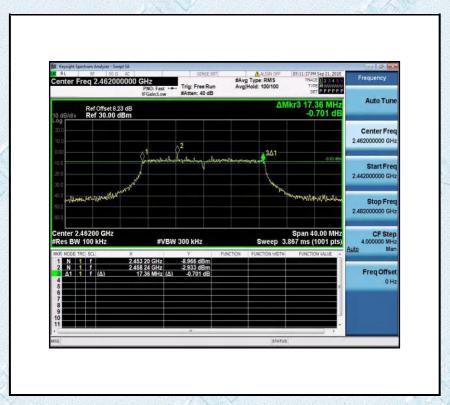
Test Mode:	802.11n(HT20) Mode 6dB Bandwidth Limit (MHz) (MHz)	
Channel frequency (MHz)		
2412	17.080	
2437	17.440	>=0.5
2462	17.360	





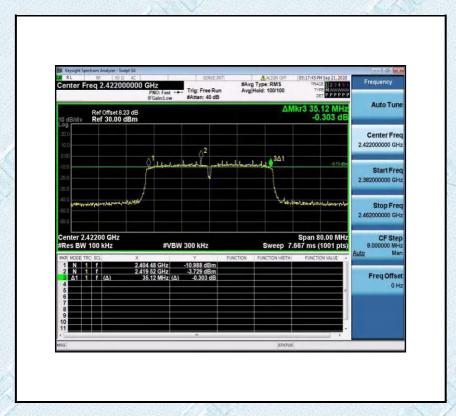




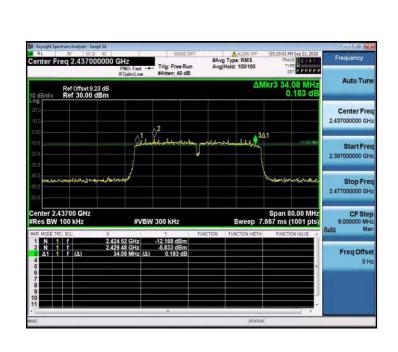


Test Mode:	802.11n(HT40) Mode	
Channel frequency (MHz)	6dB Bandwidth Limit (MHz)	
2422	35.120	
2437	34.080	>=0.5
2452	35.200	
2422 MHz		













Test Mode:	802.11b Mode	
Channel frequency (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	14.969	
2437	14.927	>=0.5
2462	15.224	





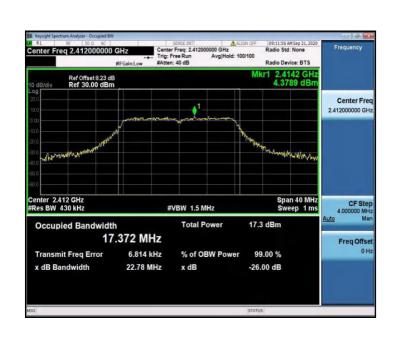






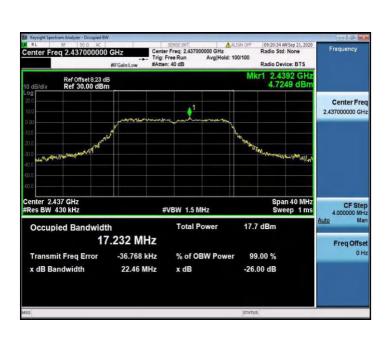


Test Mode:	802.11g Mode	
Channel frequency (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	17.372	
2437	17.232	>=0.5
2462	17.351	







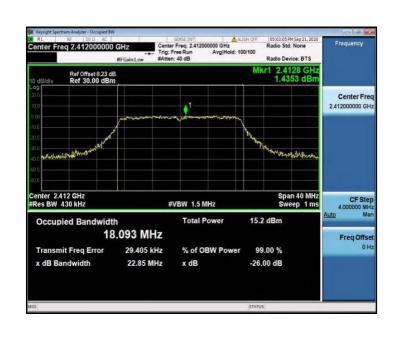




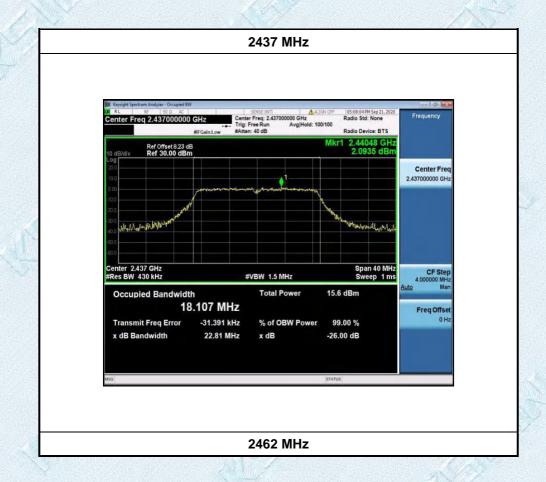


Test Mode:	802.11n(HT20) Mode	
Channel frequency (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	18.093	
2437	18.107	>=0.5
2462	18.161	

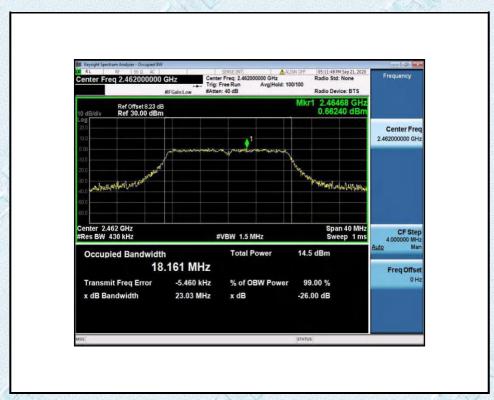






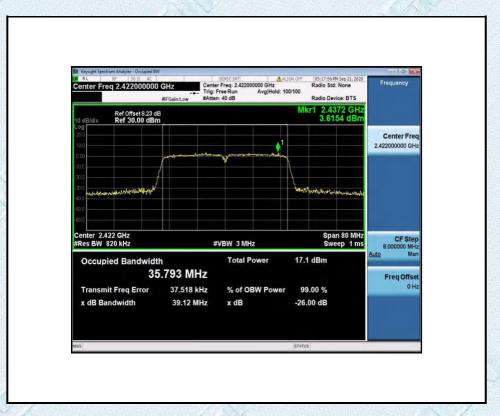




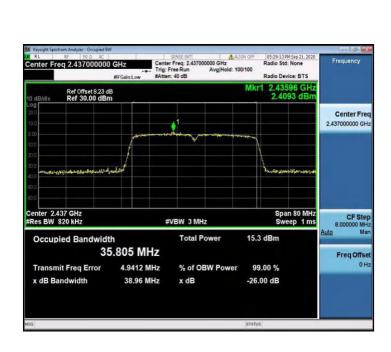


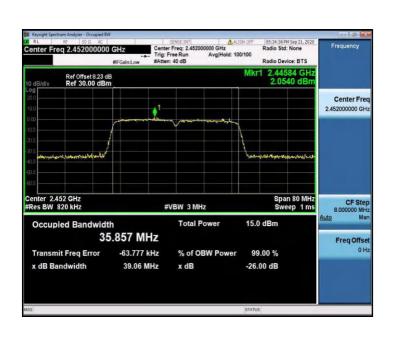
Test Mode:	802.11n(HT40) Mode	
Channel frequency (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2422	35.793	
2437	35.805	>=0.5
2452	35.857	
2422 MHz		













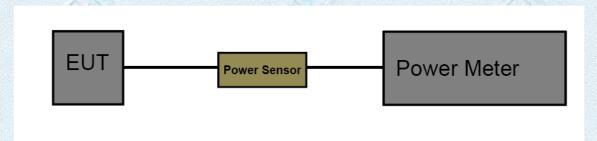


3.4. Peak Output Power

Limit

Test Item	Limit	Frequency Range(MHz)
Peak Output Power	1 Watt or 30 dBm	2400~2483.5

Test Configuration



Test

Procedure

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator.
- 2. The measurement is according to section 9.1.2 of KDB 558074 D01 15.247 DTS Meas Guidance v05.
- 3. Spectrum Setting:

Set analyser center frequency to DTS channel center frequency.

Set the RBW to: 1MHz Set the VBW to: 3MHz

Detector: peak
Sweep time: auto

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

4. The power sensor video bandwidth is greater than or equal to the DTS bandwidth of the equipment.

Test Mode

Please refer to the clause 2.3

Test Result



Mode	Channel frequency (MHz)	Test Result (dBm)	Limit (dBm)
	2412	12.57	
802.11b	2437	13.60	
	2462	13.46	
	2412	11.39	
802.11g	2437	11.64	
	2462	2462 11.28	20
	2412	8.98	30
802.11n (HT20)	2437	9.51	
(11120)	2462	8.99	
	2422	8.43	
802.11n (HT40)	2437	8.37	
(11140)	2452	7.99	
	Res	ult : PASS	



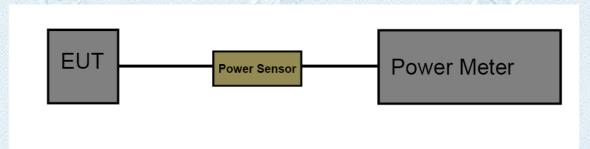


3.5. Power Spectral Density

Limit

FCC Part 15 Subpart C(15.247)		
Test Item	Limit	Frequency Range(MHz)
Power Spectral Density	8dBm(in any 3 kHz)	2400~2483.5

Test Configuration



Test

Procedure

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator.
- 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 15.247 DTS Meas Guidance v05.
- 3. 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: 10 kHz Set the VBW to: 30 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 2.3

Test Result

Note:

Power Density(dBm/3kHz)=Power Density(dBm/10kHz)-10*Log(10/3)



Test Mode:	802.11b Mode			
Channel Frequency (MHz)		Power Density (dBm/10kHz)	Power Density (dBm/3kHz)	Limit (dBm)
2412		-13.84	-19.07	
2437		-13.35	-18.58	8dBm/3kHz
2462		-14.88	-20.11	





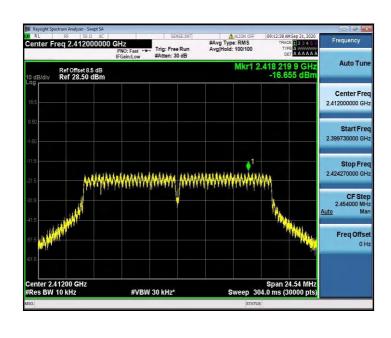




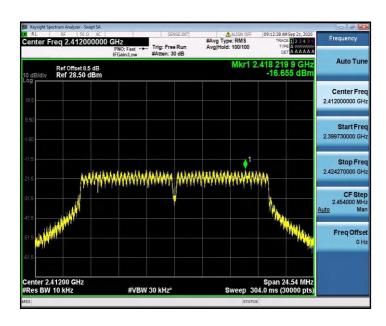


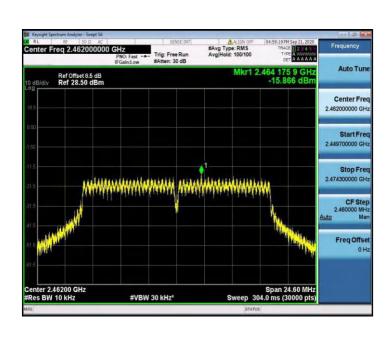


Test Mode:	802.11g Mode				
Channel Frequency (MHz)		Power Density (dBm/10 kHz) Power Density (dBm/3 kHz)		Limit (dBm)	
2412		-16.66	-21.89		
2437		-16.23	-21.46	8dBm/3kHz	
2462		-15.87	-21.10	2	



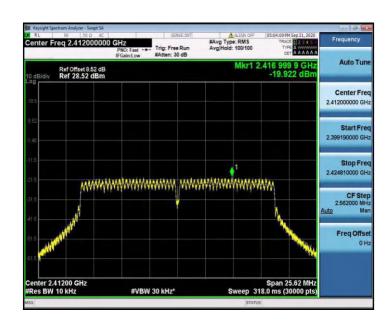




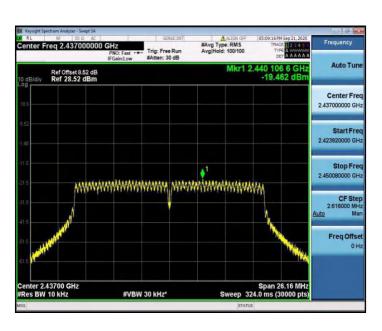


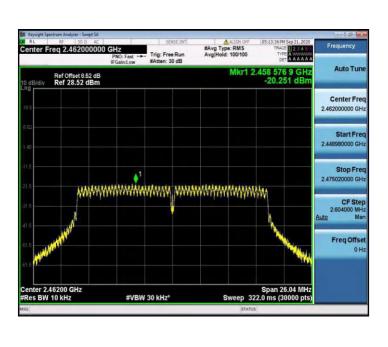


Test Mode:	802.1	02.11n(HT20) Mode			
Channel Freq (MHz)	uency	Power Density (dBm/10kHz)	Power Density (dBm/3 kHz)	Limit (dBm)	
2412		-19.92	-25.15		
2437		-19.46	-24.69	8dBm/3kHz	
2462		-20.25	-25.48		



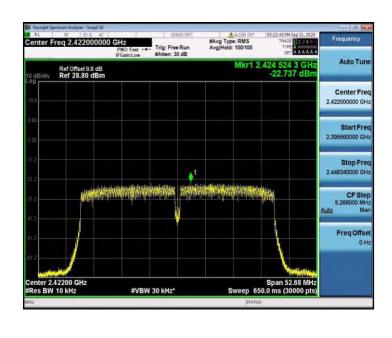




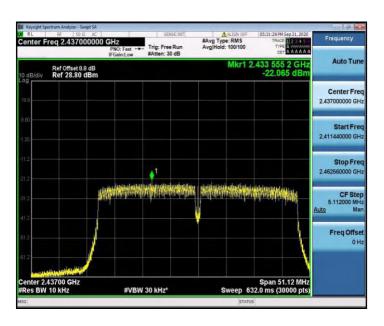


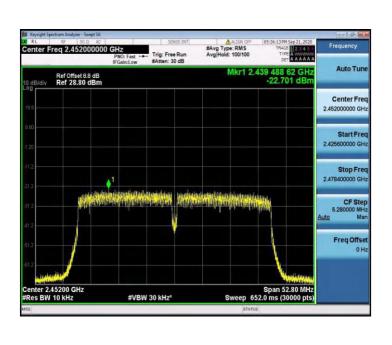


Test Mode:	Mode: 802.11n(HT40) Mode			
Channel Frequ (MHz)	iency	Power Density (dBm/10kHz)	Power Density (dBm/3 kHz)	Limit (dBm)
2422		-22.74	-27.97	
2437		-22.07	-27.30	8dBm/3kHz
2452		-22.7	-27.93	











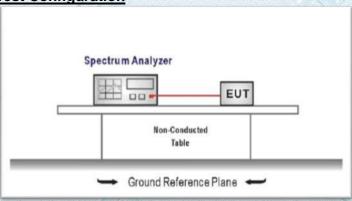
3.6. Band edge and Spurious Emission (conducted)

Limit

FCC CFR Title 47 Part 15 Subpart C Section15.247 (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.

Test Configuration



Test Procedure

- 1. Connect EUT RF Output port to the Spectrum Analyzer through an RF attenuator.
- 2. Spectrum Setting:

RBW=100KHz

VBW=300KHz.

Detector function: Peak.

Trace: Max hold. Sweep = Auto couple.

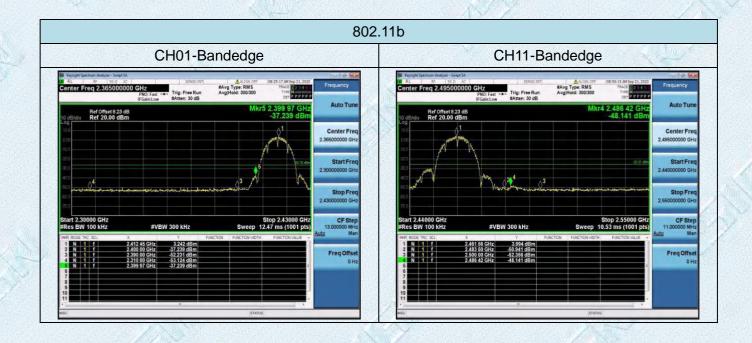
Allow the trace to stabilize.

Test Mode

Please refer to the clause 2.3.

Test Results

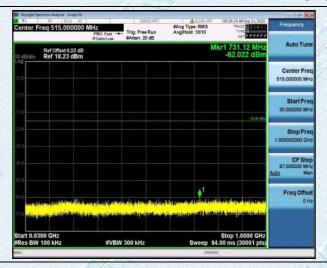






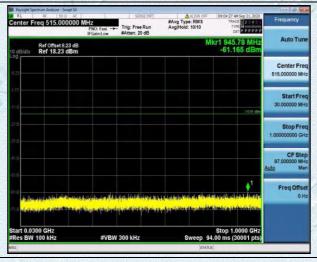
802.11b

CH01-SE





CH06-SE





CH11-SE









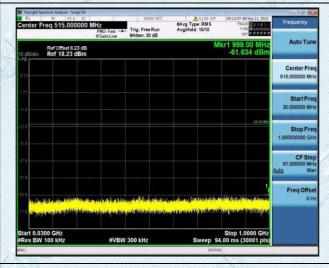
CH01-Bandedge



CH11-Bandedge



CH01-SE





CH06-SE

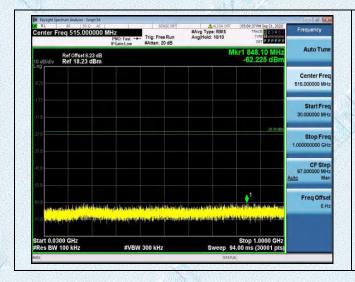






CH11-SE

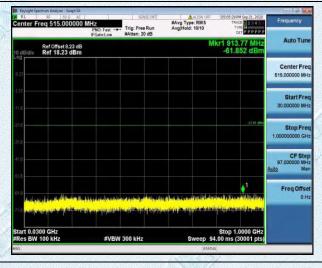


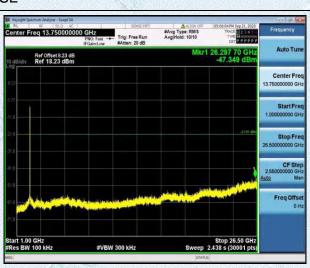






CH01-SE





CH06-SE