

TEST REPORT

Product Name : PETKIT PURA MAX The Self-cleaning Cat

Litter Box

Model Number : P9902

FCC ID : 2AEDG-P9902

Prepared for : PETKIT NETWORK TECHNOLOGY (SHANGHAI)

CO.,LTD.

Address : Room 218, Building W1, No.1000 Chenhui Road, Pudong

District, Shanghai.

Prepared by : EMTEK (NINGBO) CO., LTD.

Address : 1F Building 4, 1177#, Lingyun Road, Ningbo National

Hi-Tech Zone, Ningbo, Zhejiang, China.

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Report Number : ENB2108020067W01002R

Date(s) of Tests : August 02, 2021 to August 27, 2021

Date of Issue : August 28, 2021



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1 TEST RESULT CERTIFICATION

Applicant : PETKIT NETWORK TECHNOLOGY (SHANGHAI) CO.,LTD.

Address : Room 218, Building W1, No.1000 Chenhui Road, Pudong District, Shanghai.

Manufacturer : Dongguan Zhihang Plastic Technology Co.,Ltd.

Address : Building 10, Pushikegu, Pushi 1st Road, Gangtou Village, Qiaotou Town,

Dongguan City, Guangdong Province, P.R.C.

EUT : PETKIT PURA MAX The Self-cleaning Cat Litter Box

Model Name : P9902

Trademark : N/A

Measurement Procedure Used:

APPLICABLE STANDARDS				
STANDARD TEST RESULT				
FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C	PASS			

The above equipment was tested by EMTEK (NINGBO) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2014) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 2 and Part 15.247

The test results of this report relate only to the tested sample identified in this report.

Date of Test :	August 02, 2021 to August 27, 2021
Prepared by :	June Gao/Engineer
Reviewer :	V Zury
Approved & Authorized Signer :	Vinay/Supervisor Torry Wei
Approved & Addition 200 Original .	Tony Wei/Manager



2 EUT TECHNICAL DESCRIPTION

Characteristics	Description	
Product PETKIT PURA MAX The Self-cleaning Cat Litter Box		
Model Number P9902		
Sample Number	1#	
Section 1 Section 2 Sec		
Data Rate	802.11 b:1,2,5.5,11Mbps; 802.11 g:6,9,12,18,24,36,48,54Mbps; 802.11 n: MCS0~7,up to 150Mbps;	
Modulation	DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/ CCK /16QAM/64QAM for 802.11g/n20/n40;	
Operating Frequency □ 2412-2462MHz for 802.11b/g/n(HT20); Range □ 2422-2452MHz for 802.11n(HT40);		
Number of Channels	☐ 11 channels for 802.11b/g n(HT20);☐ 7 Channels for 802.11n(HT40);	
Transmit Power Max	14.35 dBm	
Smart system	SISO for802.11 b/g/n(HT20)/n(HT40); □MIMO for802.11n(HT20);	
Antenna Type	PCB Antenna	
Antenna Gain	3.7 dBi	
Power supply	DC 5V for USB	
Temperature Range	-20℃~+50℃	
Date of Received	July 23, 2021	

Note: for more details, please refer to the User's manual of the EUT.



3 SUMMARY OF TEST RESULT

FCC Part Clause	Test Parameter	Verdict	Remark			
15.247(a)(2)	DTS (6dB) Bandwidth	PASS				
15.247(b)(3)	Maximum Peak Conducted Output Power	PASS				
15.247(e)	Maximum Power Spectral Density Level	PASS				
15.247(d)	Unwanted Emission Into Non-Restricted	PASS				
	Frequency Bands					
15.247(d)	Unwanted Emission Into Restricted Frequency	PASS				
15.209	Bands (conducted)					
15.247(d)	Radiated Spurious Emission	PASS				
15.209						
15.207	Conducted Emission Test	PASS				
15.247(b)	Antenna Application PASS					
	NOTE1:N/A (Not Applicable)					
	NOTE2: According to FCC OET KDB 558074, the report use radiated					
	measurements in the restricted frequency bands. In addition, the radiated					
	test is also performed to ensure the emissions emanating from the device					
	cabinet also comply with the applicable limits.					

RELATED SUBMITTAL(S) / GRANT(S):

This submittal(s) (test report) is intended for FCC ID: 2AEDG-P9902 filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.



4 TEST METHODOLOGY

4.1 GENERAL DESCRIPTION OF APPLIED STANDARDS

According to its specifications, the EUT must comply with the requirements of the following standards: FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C FCC KDB 558074 D01 15.247 Meas Guidance v05r02

4.2 MEASUREMENT EQUIPMENT USED

4.2.1 Conducted Emission Test Equipment

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LASTCAL.	CAL. INTERVAL
Test Receiver	Rohde & Schwarz	ESCI	101108	July 08, 2021	1 Year
L.I.S.N	Rohde & Schwarz	ENV216	101193	July 08, 2021	1 Year
L.I.S.N	Schwarzbeck	NSLK 8126	8126-462	July 08, 2021	1 Year
Pulse Limiter	MTS-systemtechnik	IMP-136	2611115-001-00 33	July 08, 2021	1 Year
RF Switching unit	Compliance Direction Systems Inc.	RSU-M2	38400	July 08, 2021	1 Year

4.2.2 Radiated Emission Test Equipment

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL. INTERVAL
Spectrum Analyzer	Rohde & Schwarz	ESCI	101107	July 08, 2021	1 Year
EMI Test Receiver	Rohde & Schwarz	ESCI	101107	July 08, 2021	1 Year
Pre-Amplifier	CD	PAP-0203	22015	July 08, 2021	1 Year
Bilog Antenna	Schwarzbeck	VULB9163	9163-467	July 08, 2021	2 Year
Cable	HUBER + SUHNER	CBL3-NN-0.5 M	101216-214050 0-2	July 08, 2021	1 Year
Cable	HUBER + SUHNER	CBL3-NN-3.0 M	101216-214300 0-2	July 08, 2021	1 Year
Cable	HUBER + SUHNER	CBL3-NN-9.0 M	101216-214900 0	July 08, 2021	1 Year
Spectrum Analyzer	Agilent	E4407B	MY45107013	Oct 10, 2020	1 Year
Pre-Amplifier	Connphy Microwave Inc.	GLN-1G40G-4 165-K	0319104	Nov 29, 2020	1 Year
Band Reject Filter	O.M.Jones,Inc.dba	BRM50702-01	G049	Aug 19, 2020	1 Year
Horn Antenna	Schwarzbeck	BBHA 9120	9120D-707	April 28, 2021	2 Year
Cable	SMAMSMAM	A50-0.5M	N/A	Nov 29, 2020	1 Year
Cable	SMAMSMAM	A50-3M	N/A	Nov 29, 2020	1 Year
Cable	SMAMSMAM	A50-6M	N/A	Nov 29, 2020	1 Year

4.2.3 Radio Frequency Test Equipment

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL. INTERVAL
Spectrum Analyzer	Agilent	E4407B	88156318	Oct 10, 2020	1 Year
Attenuator 10dB	ttenuator 10dB Suzhou talent Microwave		N/A	Aug 19, 2020	1 Year

Remark: Each piece of equipment is scheduled for calibration once a year.



4.3 DESCRIPTION OF TEST MODES

The EUT has been tested under its typical operating condition.

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (\boxtimes 802.11b:1 Mbps; \boxtimes 802.11g: 6 Mbps; \boxtimes 802.11n(HT20): MCS0; \boxtimes 802.11n(HT40): MCS0) were used for all test.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Frequency and Channel list for 802.11b/g/n (HT20):

Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel	(MHz)	Channel	(MHz)	Chamilei	(MHz)
1	2412	6	2437	11	2462
2	2417	7	2442		
3	2422	8	2447		
4	2427	9	2452		
5	2432	10	2457		

Frequency and Channel list for 802.11n (HT40):

Channal	Frequency	Channel	Frequency	Channel	Frequency
Channel	(MHz)	Channel	(MHz)	Charmer	(MHz)
3	2422	6	2437	9	2452
4	2427	7	2442		
5	2432	8	2447		

☐ Test Frequency and Channel for 802.11b/g/n (HT20):

Lowest Frequency		Middle F	requency	Highest Frequency		
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	
1	2412	6	2437	11	2462	

☑Test Frequency and Channel for 802.11n (HT40):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	2422	6	2437	9	2452



4.4 TEST SOFTWARE

Item	Software
Radiated Emission:	EMC (Ver. EMEC-3A1)
Conducted Emission	EZ-EMC (Ver. CON-03A1)





5 FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

1F Building 4, 1177#, Lingyun Road, Ningbo National Hi-Tech Zone, Ningbo, Zhejiang, China. The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 32.

5.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

EMC Lab. : Accredited by CNAS, 2019.04.02

The certificate is valid until 2023.1.20

The Laboratory has been assessed and proved to be in compliance with CNA

S-CL01:2018 (identical to ISO/IEC 17025:2017) The Certificate Registration Number is L6666.

Accredited by FCC

Designation Number: CN1302

Test Firm Registration Number: 436491

Accredited by A2LA

The certificate is valid until May 31, 2023 The Certificate Number is 4321.03.

Accredited by Industry Canada, November 14, 2016 The Certificate Registration Number is 46405-9469.

Name of Firm : EMTEK (NINGBO) CO., LTD.

Site Location : 1F Building 4, 1177#, Lingyun Road, Ningbo National Hi-Tech Zone, Ningbo,

Zhejiang, China.



6 TEST SYSTEM UNCERTAINTY

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty	
	,	
Radio Frequency	± 1x10^-5	
Maximum Peak Output Power Test	± 1.0 dB	
Conducted Emissions Test	± 2.0 dB	
Radiated Emission Test	± 2.0 dB	
Power Density	± 2.0 dB	
Occupied Bandwidth Test	± 1.0 dB	
Band Edge Test	± 3 dB	
All emission, radiated	± 3 dB	
Antenna Port Emission	± 3 dB	
Temperature	± 0.5 °C	
Humidity	± 3 %	

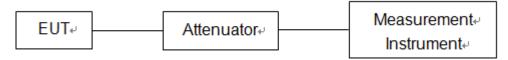
Measurement Uncertainty for a level of Confidence of 95%



7 SETUP OF EQUIPMENT UNDER TEST

7.1 RADIO FREQUENCY TEST SETUP 1

The WLAN component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



7.2 RADIO FREQUENCY TEST SETUP 2

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10. The test distance is 3m.The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

Below 30MHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The Antenna should be positioned with its plane vertical at the specified distance from the EUT androtated about its vertical axis formaximum response at each azimuth about the EUT. The center of the loopshall be 1 m above the ground. For certain applications, the loop antennaplane may also need to be positioned horizontally at the specified distance from the EUT.

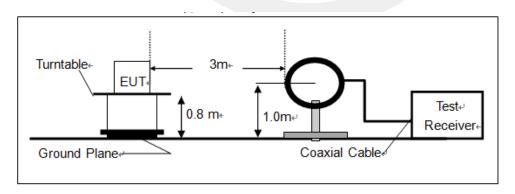
30MHz-1GHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

Above 1GHz:

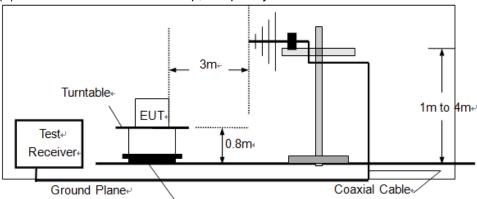
The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

(a) Radiated Emission Test Set-Up, Frequency Below 30MHz

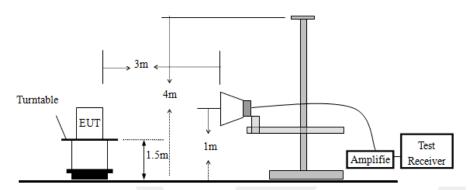




(b)Radiated Emission Test Set-Up, Frequency Below 1000MHz



(c) Radiated Emission Test Set-Up, Frequency above 1000MHz

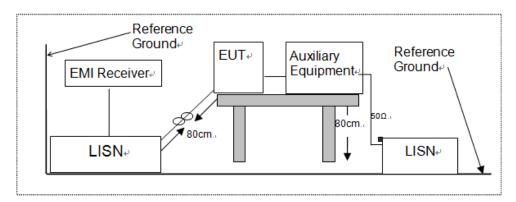


7.3 CONDUCTED EMISSION TEST SETUP

The mains cable of the EUT (maybe per AC/DC Adapter) must be connected to LISN. The LISN shall be placed 0.8 m from the boundary of EUT and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance is between the closest points of the LISN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8m from the LISN. Ground connections, where required for safety purposes, shall be connected to the reference ground

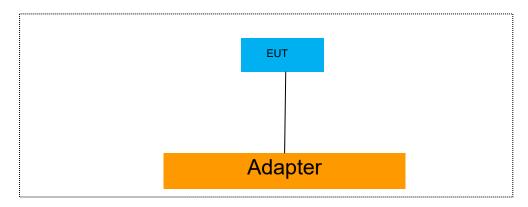
point of the LISN and, where not otherwise provided or specified by the manufacturer, shall be of same length as the mains cable and run parallel to the mains connection at a separation distance of not more than 0.1 m.

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.





7.4 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM



7.5 SUPPORT EQUIPMENT

EUT Cable List and Details						
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite			
1	1	1	1			

Auxiliary Cable List and Details						
Cable Description Length (m) Shielded/Unshielded With / Without Ferrite						
1	1	1	1			

Auxiliary Equipment List and Details						
Description	Serial Number					
Adapter	XIAOMI	MDY-08-EH	YJ2808029017389			

Notes:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. Unless otherwise denoted as EUT in <code>[Remark]</code> column, device(s) used in tested system is a support equipment



8 TEST REQUIREMENTS

8.1 DTS (6DB) BANDWIDTH

8.1.1 Applicable Standard

According to FCC Part15.247 (a)(2) and KDB 558074 D01 15.247 Meas Guidance v05r02

8.1.2 Conformance Limit

The minimum -6 dB bandwidth shall be at least 500 kHz.

8.1.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

8.1.4 Test Procedure

The EUT was operating in IEEE 802.11b/g/n mode and controlled its channel. Printed out the test result from the spectrum by hard copy function.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

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

Set RBW = 100 kHz.

Set the video bandwidth (VBW) =300kHz.

Set Span=2 times OBW

Set Detector = Peak.

Set Trace mode = max hold.

Set Sweep = auto couple.

Allow the trace to stabilize.

Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Measure and record the results in the test report.

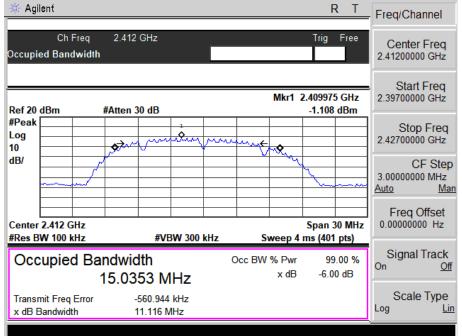
8.1.5 Test Results

Temperature:	23° C	
Relative Humidity:	56%	
ATM Pressure:	1011 mbar	

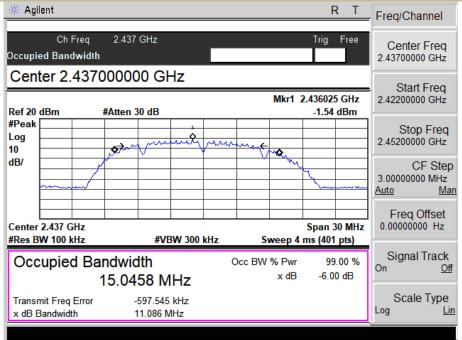
Operation Mode	Channel Number	Channel Frequency (MHz)	Measurement Bandwidth (MHz)	Limit (kHz)	Verdict
	1	2412	11.116	>500	PASS
802.11b	6	2437	11.086	>500	PASS
	11	2462	11.053	>500	PASS
	1	2412	16.631	>500	PASS
802.11g	6	2437	16.172	>500	PASS
	11	2462	17.393	>500	PASS
802.11n (HT20)	1	2412	18.161	>500	PASS
	6	2437	17.183	>500	PASS
	11	2462	18.231	>500	PASS
802.11n (HT40)	3	2422	35.285	>500	PASS
	6	2437	35.272	>500	PASS
	9	2452	35.200	>500	PASS





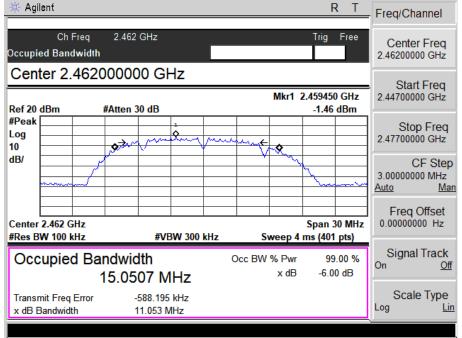




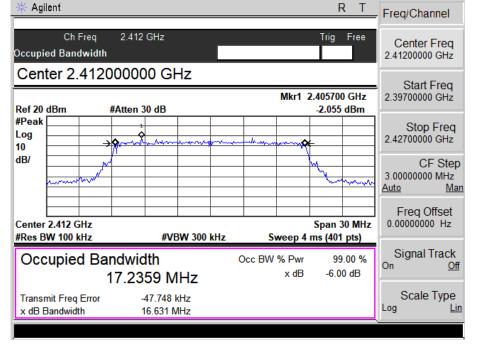






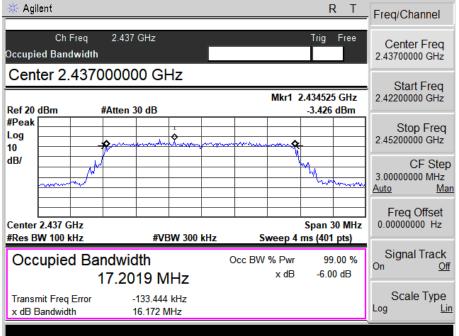


DTS (6dB) Bandwidth
Test Model 802.11g
Channel 1: 2412MHz

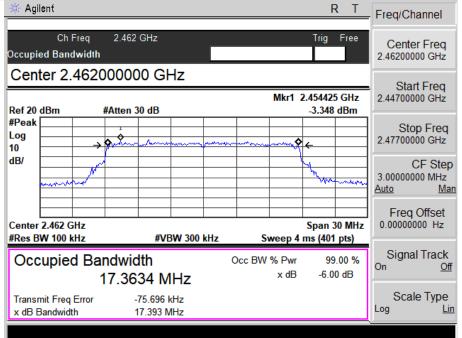






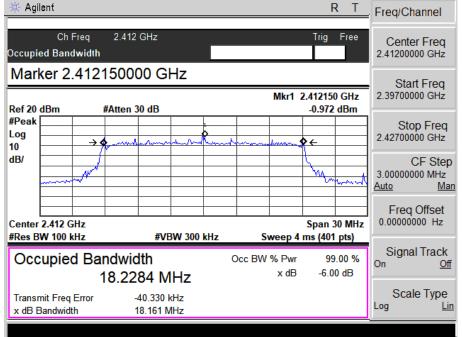


DTS (6dB) Bandwidth
Test Model 802.11g
Channel 11: 2462MHz

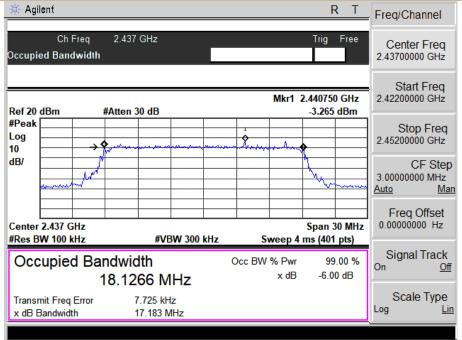






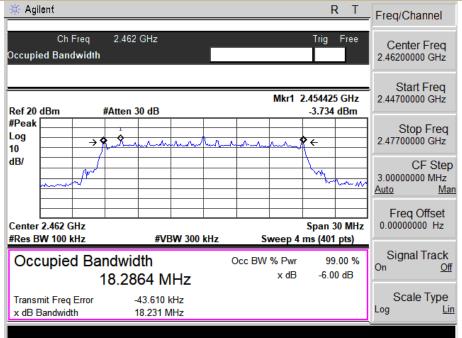


DTS (6dB) Bandwidth
Test Model 802.11n (HT20)
Channel 6: 2437MHz

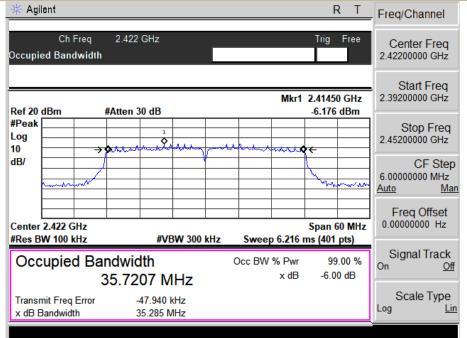






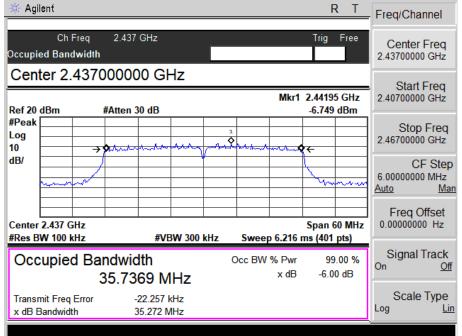


DTS (6dB) Bandwidth
Test Model 802.11n (HT40)
Channel 11: 2422MHz

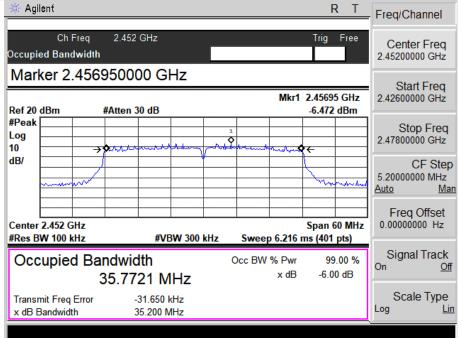








DTS (6dB) Bandwidth
Test Model 802.11n (HT40)
Channel 11: 2452MHz





8.2 MAXIMUM CONDUCTED (AVERAGE) OUTPUT POWER

8.2.1 Applicable Standard

According to FCC Part15.247 (b)(3) and KDB 558074 D01 15.247 Meas Guidance v05r02

8.2.2 Conformance Limit

The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30dBm).

8.2.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

8.2.4 Test Procedure

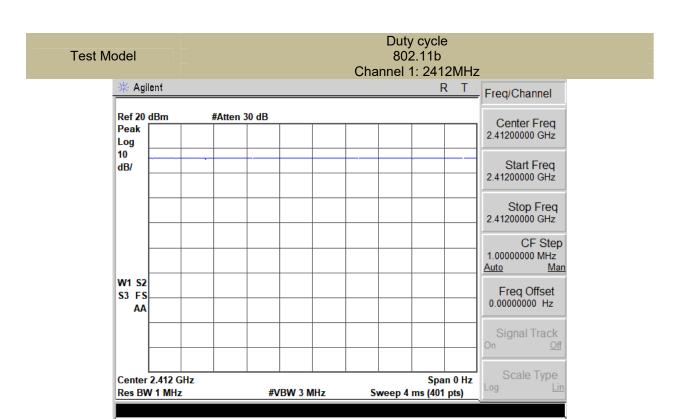
- a) Set span to at least 1.5 times the OBW.
- b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz.
- c) Set VBW \geq 3 x RBW.
- d) Number of points in sweep $\ge 2 \times \text{span} / \text{RBW}$. (This gives bin-to-bin spacing $\le \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)
- e) Sweep time = auto.
- f) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- g) If transmit duty cycle < 98 %, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle \geq 98 %, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run".
- h) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
- i) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

8.2.5 Test Results

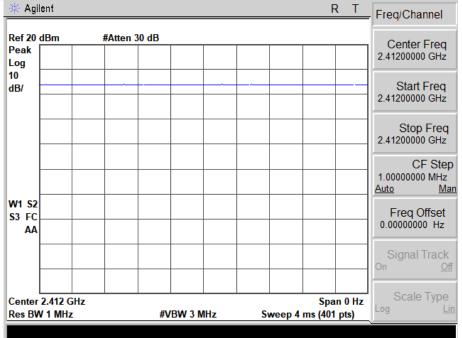
Temperature:	23° C
Relative Humidity:	56%
ATM Pressure:	1011 mbar

Operation Mode	Channel Number	Channel Frequency (MHz)	Measurement Level (dBm)	Limit (dBm)	Verdict
	1	2412	13.60	30	PASS
802.11b	6	2437	14.16	30	PASS
	11	2462	14.10	30	PASS
	1	2412	14.19	30	PASS
802.11g	6	2437	14.35	30	PASS
	11	2462	14.35	30	PASS
802.11n	1	2412	12.15	30	PASS
	6	2437	12.87	30	PASS
(HT20)	11	2462	13.01	30	PASS
802.11n	3	2422	12.02	30	PASS
	6	2437	11.47	30	PASS
(HT40)	9	2452	11.36	30	PASS

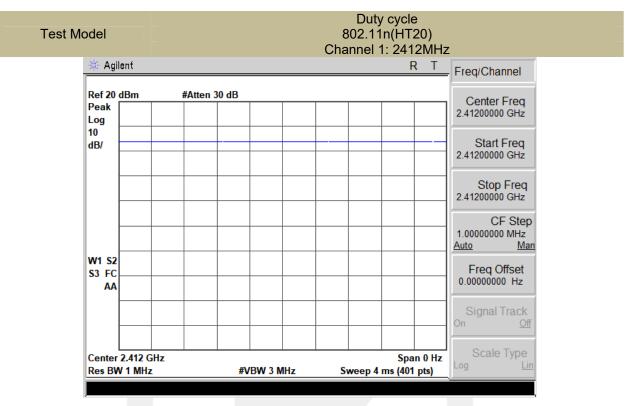


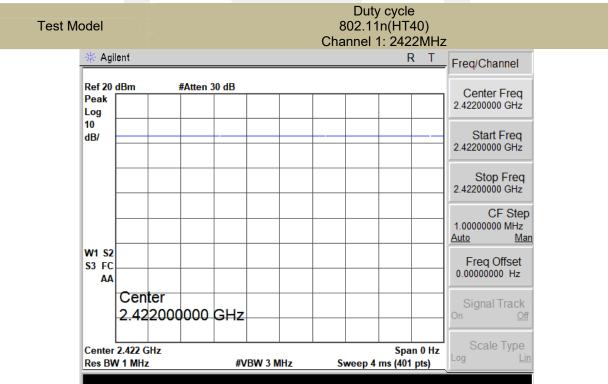








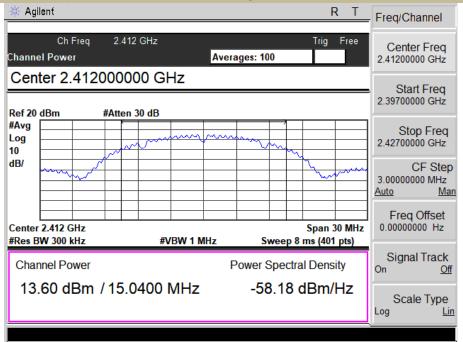






MAXIMUM CONDUCTED(AVERAGE) OUTPUT POWER 802.11b

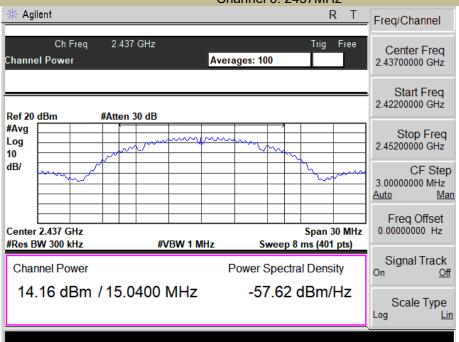
Channel 1: 2412MHz



Test Model

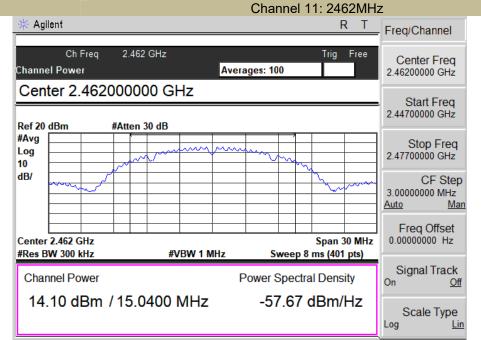
MAXIMUM CONDUCTED(AVERAGE) OUTPUT POWER 802.11b

Channel 6: 2437MHz



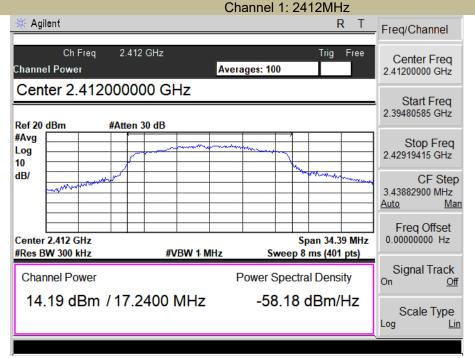


MAXIMUM CONDUCTED(AVERAGE) OUTPUT POWER 802.11b



Test Model

MAXIMUM CONDUCTED(AVERAGE) OUTPUT POWER 802.11g

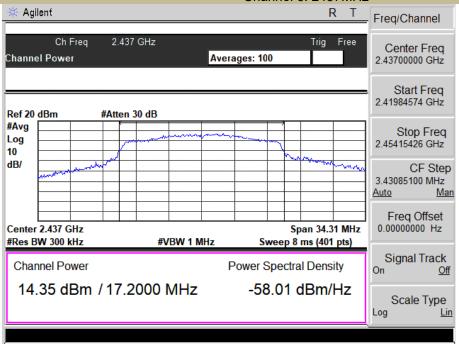




MAXIMUM CONDUCTED(AVERAGE) OUTPUT POWER

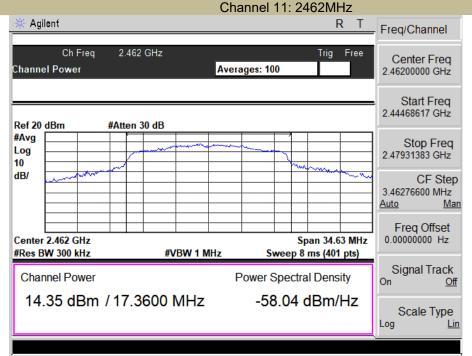
Test Model

802.11g Channel 6: 2437MHz



Test Model

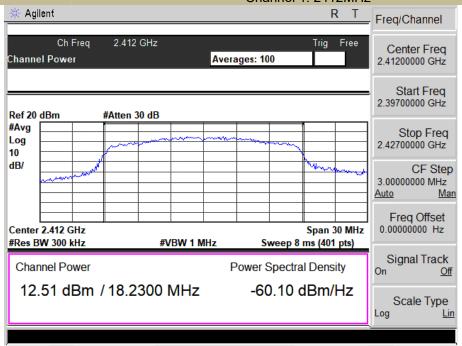
MAXIMUM CONDUCTED(AVERAGE) OUTPUT POWER 802.11g





MAXIMUM CONDUCTED(AVERAGE) OUTPUT POWER 802.11n(HT20)

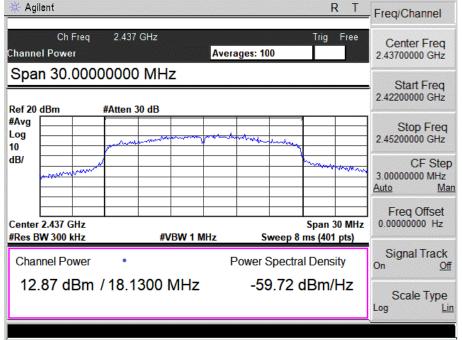
Channel 1: 2412MHz



Test Model

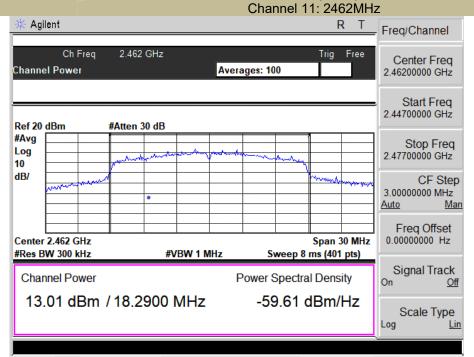
MAXIMUM CONDUCTED(AVERAGE) OUTPUT POWER 802.11n(HT20)

Channel 6: 2437MHz T R



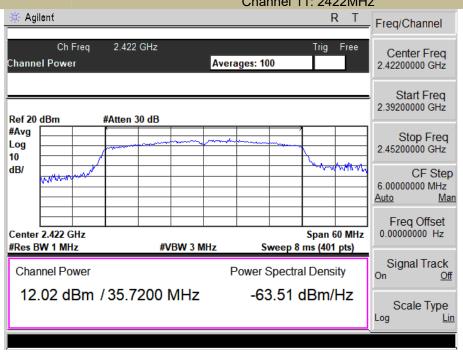


MAXIMUM CONDUCTED(AVERAGE) OUTPUT POWER 802.11n(HT20)



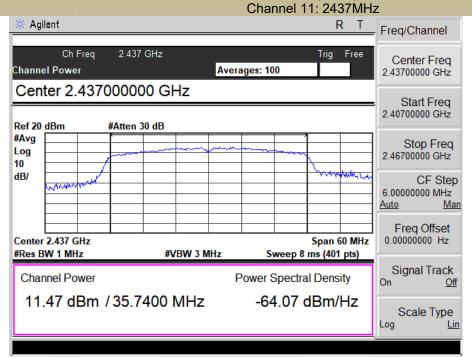
Test Model

MAXIMUM CONDUCTED(AVERAGE) OUTPUT POWER 802.11n(HT40) Channel 11: 2422MHz



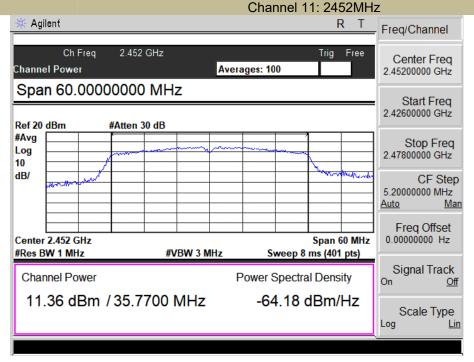


MAXIMUM CONDUCTED(AVERAGE) OUTPUT POWER 802.11n(HT40)



Test Model

MAXIMUM CONDUCTED(AVERAGE) OUTPUT POWER 802.11n(HT40)





8.3 MAXIMUM POWER SPECTRAL DENSITY

8.3.1 Applicable Standard

According to FCC Part15.247(e) and KDB 558074 D01 15.247 Meas Guidance v05r02

8.3.2 Conformance Limit

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

8.3.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

8.3.4 Test Procedure

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance

The transmitter output (antenna port) was connected to the spectrum analyzer

Set analyzer 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. Set Detector = peak.

Set Sweep time = auto couple. Set Trace mode = max hold. Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level within the RBW.

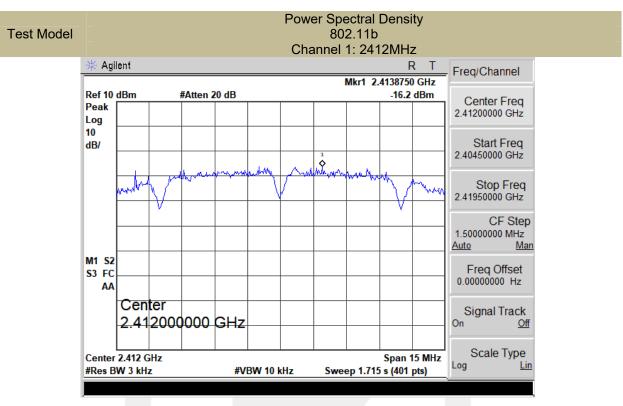
Note: If antenna Gain exceeds 6 dBi, then PSD Limit=8-(Gain- 6)

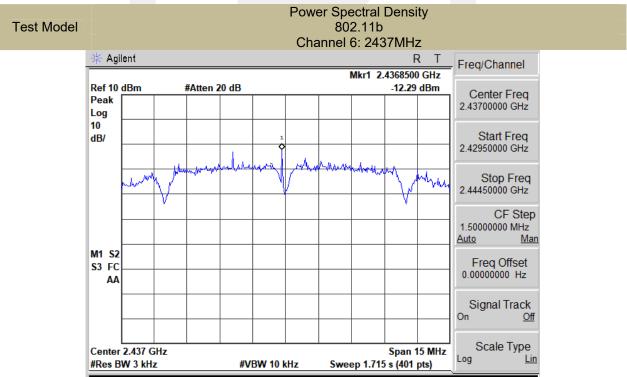
8.3.5 Test Results

Temperature:	23° C
Relative Humidity:	56%
ATM Pressure:	1011 mbar

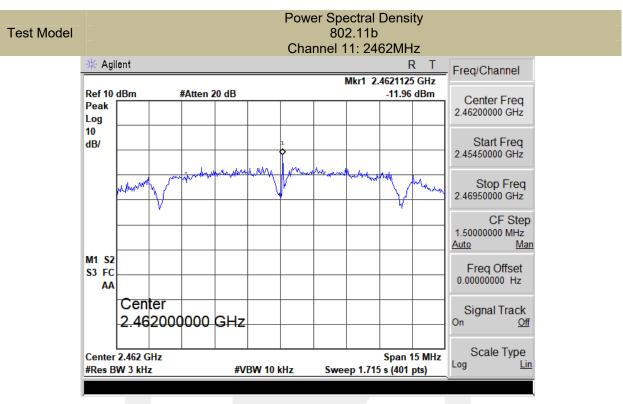
Operation Mode	Channel Number	Channel Frequency (MHz)	Measurement Level (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
	1	2412	-16.20	8	PASS
802.11b	6	2437	-12.29	8	PASS
	11	2462	-11.96	8	PASS
	1	2412	-17.62	8	PASS
802.11g	6	2437	-18.51	8	PASS
	11	2462	-18.29	8	PASS
902 11p	1	2412	-19.20	8	PASS
802.11n (HT20)	6	2437	-20.13	8	PASS
	11	2462	-18.95	8	PASS
802.11n (HT40)	3	2422	-22.40	8	PASS
	6	2437	-22.58	8	PASS
	9	2452	-21.14	8	PASS

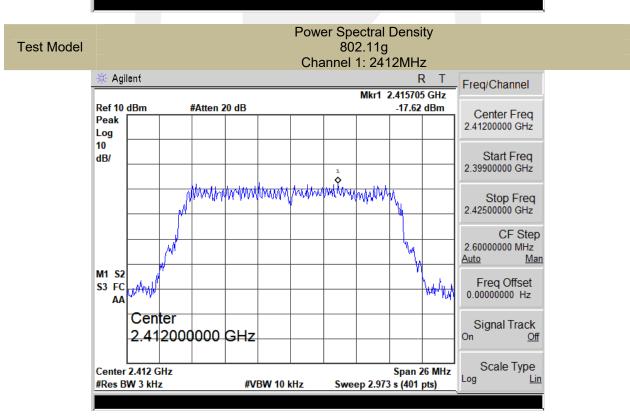




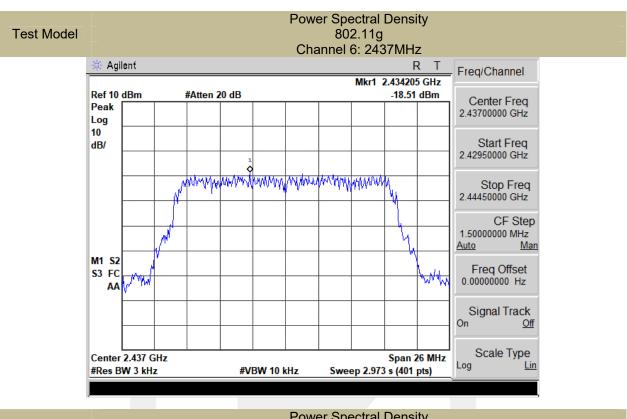


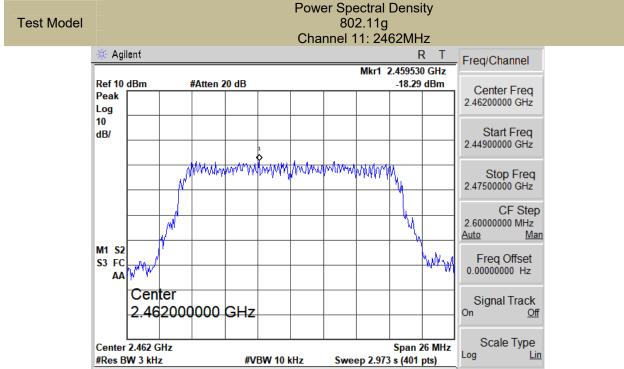




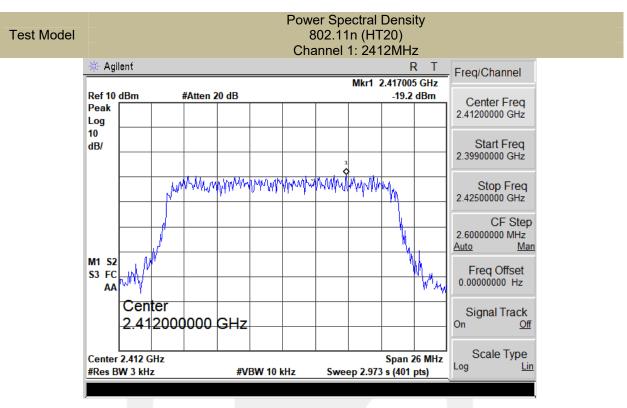


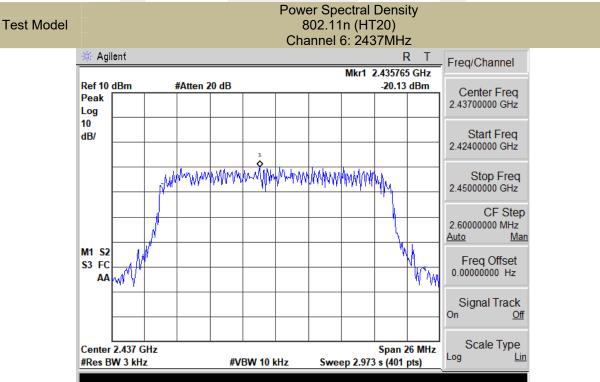




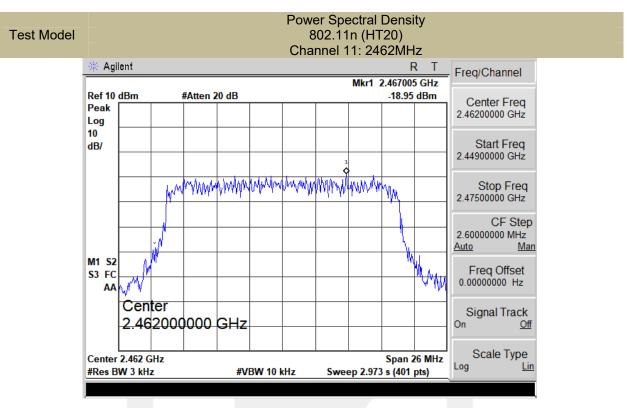


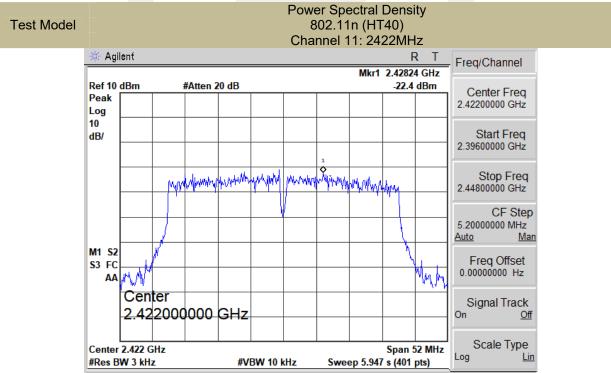




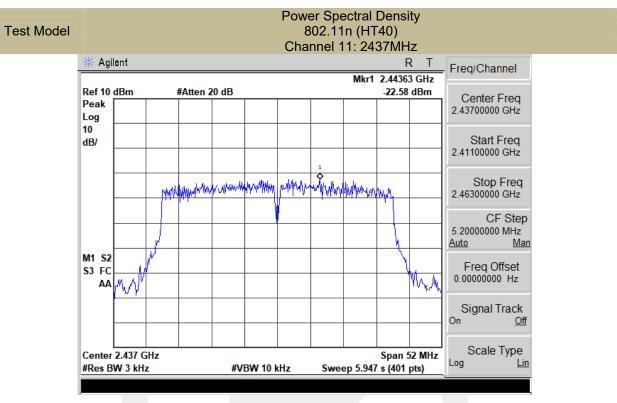


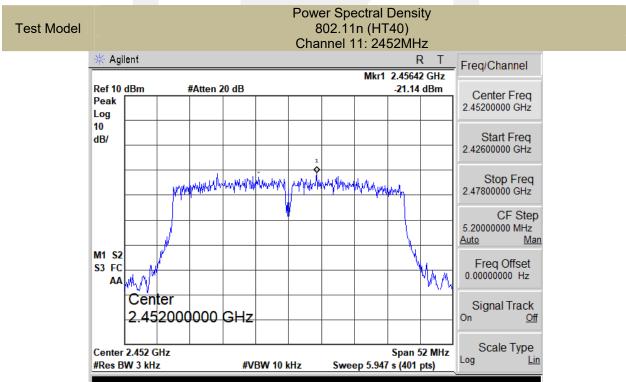














8.4 UNWANTED EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS

8.4.1 Applicable Standard

According to FCC Part15.247(d) and KDB 558074 D01 15.247 Meas Guidance v05r02

8.4.2 Conformance Limit

According to FCC Part 15.247(d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

8.4.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

8.4.4 Test Procedure

The transmitter output (antenna port) was connected to the spectrum analyzer

■ Reference level measurement

Establish a reference level by using the following procedure:

Set instrument center frequency to DTS channel center frequency.

Set the span to ≥ 1.5 times the DTS bandwidth.

Set the RBW = 100 kHz.

Set the VBW \geq 3 x RBW.

Set Detector = peak.

Set Sweep time = auto couple.

Set Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

■ Emission level measurement

Set the center frequency and span to encompass frequency range to be measured.

Set the RBW = 100 kHz.

Set the VBW =300 kHz.

Set Detector = peak

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

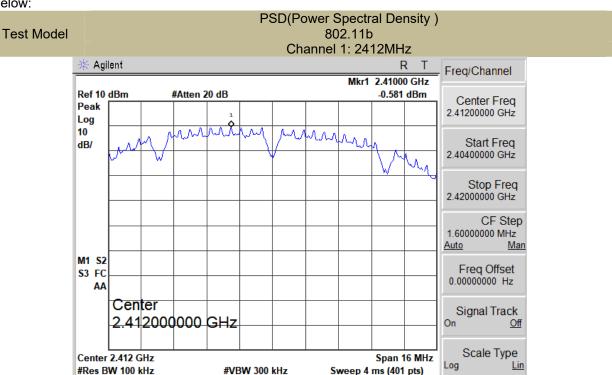
Use the peak marker function to determine the maximum amplitude level.

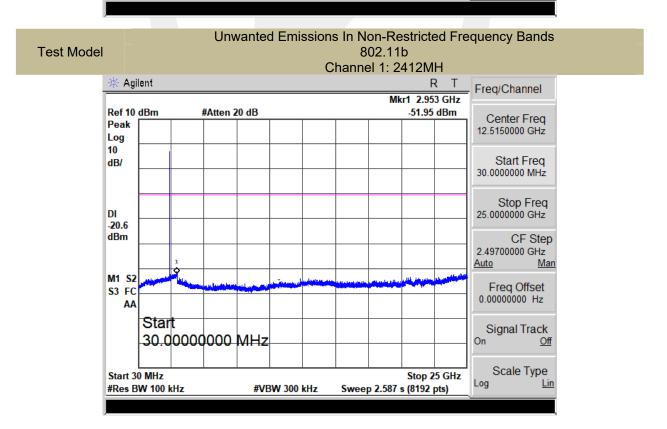
Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements. Report the three highest emissions relative to the limit.

8.4.5 Test Results

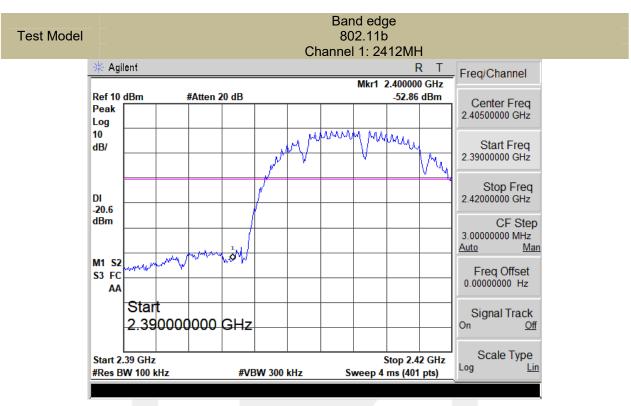


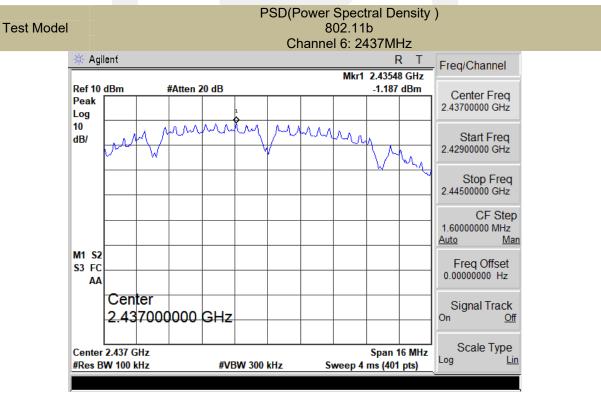
All modes 2.4G 802.11b/g/n have been tested, and the worst result 802.11b recorded was report as below:



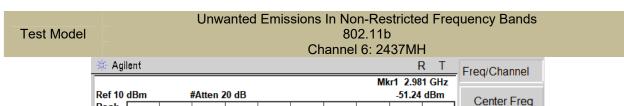


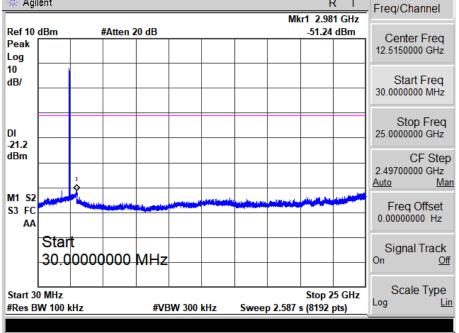


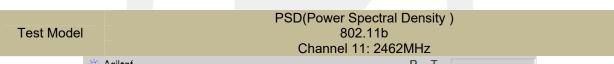


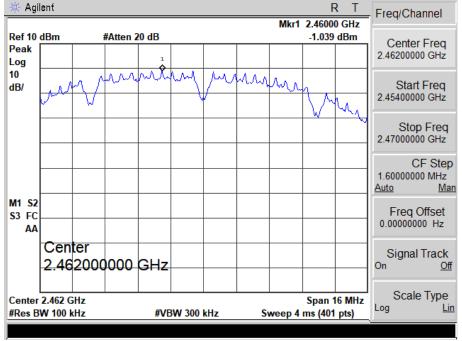




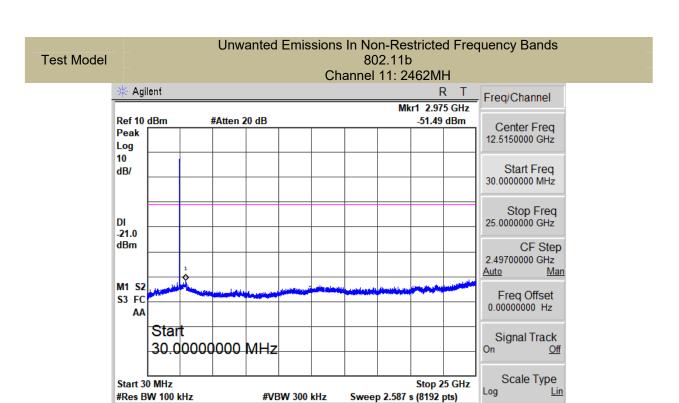


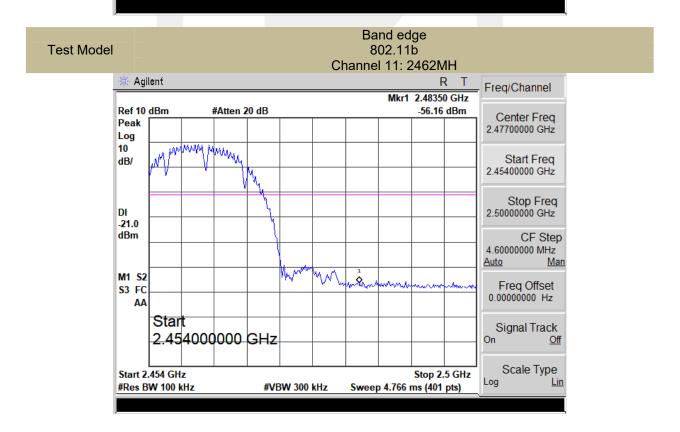














8.5 RADIATED SPURIOUS EMISSION

8.5.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and KDB 558074 D01 15.247 Meas Guidance v05r02

8.5.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)). According to FCC Part 15.205. Restricted bands

According to FCC Fart 15.205, Nestricted bands								
MHz	MHz	MHz	GHz					
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15					
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46					
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75					
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5					
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2					
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5					
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7					
6.26775-6.26825	123-138	2200-2300	14.47-14.5					
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2					
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4					
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12					
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0					
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8					
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5					
12.57675-12.57725	322-335.4	3600-4400	(2)					
13.36-13.41								

According to FCC Part15.205,the level of any transmitter spurious emission in Restricted bands shall not exceed the level of the emission specified in the following table

Restricted	Field Strength (μV/m)	Field Strength	Measurement
Frequency(MHz)		(dBµV/m)	Distance
0.009-0.490	2400/F(KHz)	20 log (uV/m)	300
0.490-1.705	24000/F(KHz)	20 log (uV/m)	30
1.705-30	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

8.5.3 Test Configuration

Test according to clause 7.2 radio frequency test setup 2

8.5.4 Test Procedure

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

The EUT was placed on a turn table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \ge 1$ GHz(1GHz to 25GHz), 100 kHz for f < 1 GHz(30MHz to 1GHz), 200Hz for f < 150KHz(9KHz to 150KHz), 9KHz for f < 30MHz(150KHz to 30KHz)

VBW ≥ RBW Sweep = auto



Detector function = peak

Trace = max hold

Follow the guidelines in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization, etc. A pre-amp and a high pass filter are required for this test, in order to provide the measuring system with sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit specified in Section 15.35(b). Submit this data.

Now set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from 20log(dwell time/100 ms), in an effort to demonstrate compliance with the 15.209 limit. Submit this data.

Repeat above procedures until all frequency measured was complete.

8.5.5 Test Results

Temperature:	22.5° C
Relative Humidity:	45%
ATM Pressure:	1011 mbar

Spurious Emission below 30MHz(9KHz to 30MHz)

Freq.	Ant.Pol.	Emis Level(d		Limit 3m	(dBuV/m)	Over(dB)		
(IVIHZ)	(MHz) H/V		ÁV	PK	AV	PK	AV	

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Distance extrapolation factor =40log(Specific distance/ test distance)(dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor



- Spurious Emission Above 1GHz(1GHz to 25GHz)
- All modes 2.4G 802.11b/g/n have been tested, and the worst result 802.11g recorded was report as below:

Test mode:	802.1	1 g	Frequ	ency:	cy: Channel 1: 2412MHz				
Freq.	Ant.Pol.		ssion IBuV/m) Limit 3m(d		(dBuV/m)	Over(dB)			
(MHz)	H/V	PK	AV	PK	AV	PK	AV		
7216.295	V	53.28	42.58	74.00	54.00	-20.72	-11.42		
10827.35	V	56.28	44.26	74.00	54.00	-17.72	-9.74		
13630.45	V	61.76	49.86	74.00	54.00	-12.24	-4.14		
7958.293	Н	54.57	43.67	74.00	54.00	-19.43	-10.33		
10992.24	Н	59.41	43.81	74.00	54.00	-14.59	-10.19		
13778.85	Н	60.31	49.87	74.00	54.00	-13.69	-4.13		

Test mod	e: 802.	11 g	Frequency: Channel 6: 2437MHz					
Freq.	Ant.Po I.		ssion BuV/m)	Limit 3m	(dBuV/m)	Over(dB)		
(MHz)	H/V	PK	AV	PK	AV	PK	AV	
6804.074	V	54.54	43.64	74.00	54.00	-19.46	-10.36	
11074.68	V	58.69	46.78	74.00	54.00	-15.31	-7.22	
14240.54	V	62.27	51.46	74.00	54.00	-11.73	-2.54	
10975.75	Н	58.90	46.75	74.00	54.00	-15.10	-7.25	
14306.49	Η	62.03	51.26	74.00	54.00	-11.97	-2.74	
16235.69	Η	62.48	51.97	74.00	54.00	-11.52	-2.03	

Test mode:	802.1	1 g	Frequ	ency:	el 11: 2462MHz		
Freq.	Ant.Pol. Emiss Level(dE		ssion dBuV/m)	Limit 3m	(dBuV/m)	Over(dB)	
(MHz)	H/V	PK	AV	PK	AV	PK	AV
6408.341	V	53.45	42.97	74.00	54.00	-19.46	-11.03
8387.003	>	55.41	45.25	74.00	54.00	-15.31	-8.75
11025.21	V	60.56	50.23	74.00	54.00	-11.73	-3.77
7232.784	Η	54.92	43.56	74.00	54.00	-15.10	-10.44
10052.37	Η	56.95	48.79	74.00	54.00	-11.97	-5.21
10926.28	Н	60.68	50.11	74.00	54.00	-11.52	-3.89

Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).

- (2) Emission Level= Reading Level+Correct Factor.
- (3) Correct Factor= Ant_F + Cab_L Preamp
- (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



■ Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz All modes 2.4G 802.11b/g/n have been tested, and the worst result 802.11g recorded was report as below:

Test mode: 802.11 g Frequency: Channel 1: 2412MHz

Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
2358.729	Н	52.61	74.00	40.54	54.00
2362.376	V	48.01	74.00	39.65	54.00

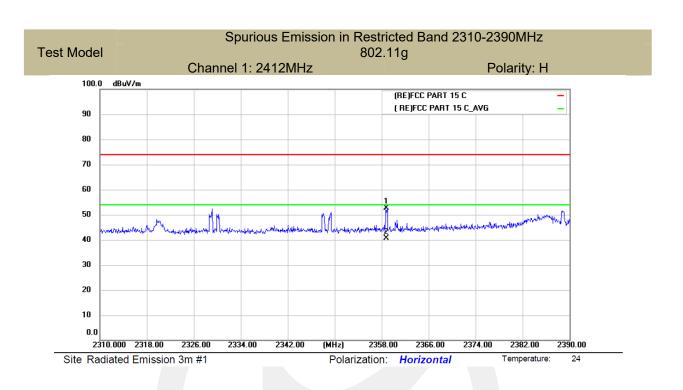
Test mode: 802.11 g Frequency: Channel 11: 2462MHz

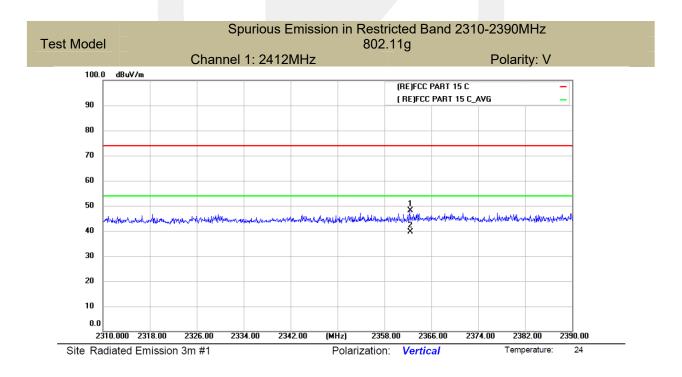
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
2487.501	Н	47.55	74.00	38.62	54.00
2488.941	V	48.71	74.00	37.98	54.00

Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).

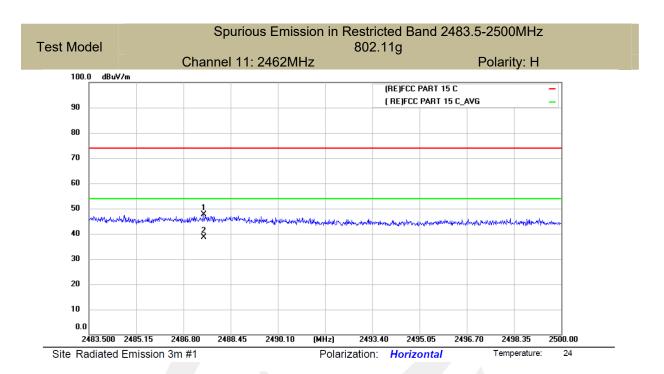
- (2) Emission Level= Reading Level+Correct Factor +Cable Loss.
- (3) Correct Factor= Ant_F + Cab_L Preamp
- (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

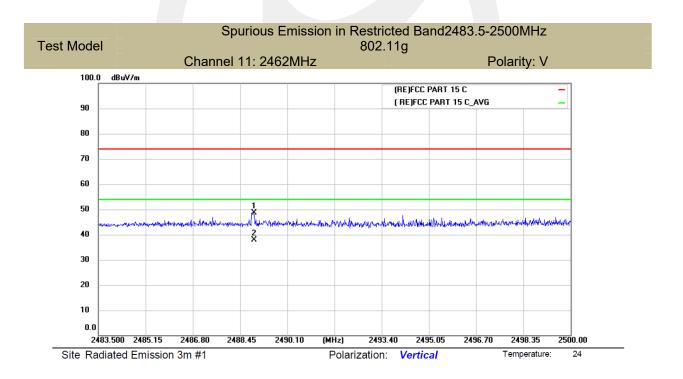






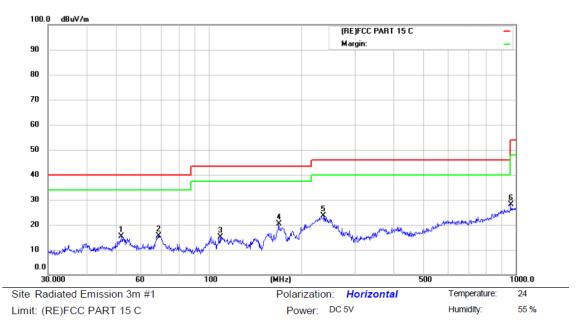








- Spurious Emission below 1GHz (30MHz to 1GHz)
- All modes 2.4G 802.11b/g/n have been tested, and the worst result 802.11g recorded was report as below:



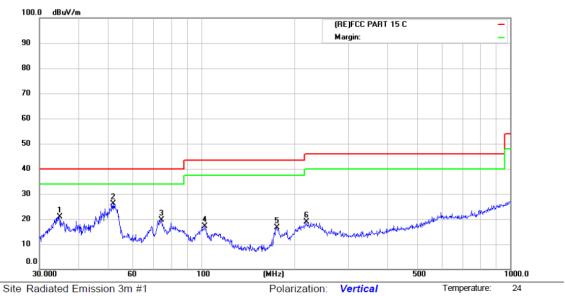
Mode:wifi 2412 MHz

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		52.0251	37.72	-22.32	15.40	40.00	-24.60	QP			
2		68.6310	39.51	-23.91	15.60	40.00	-24.40	QP			
3		109.0286	38.65	-23.45	15.20	43.50	-28.30	QP			
4		169.0054	45.20	-24.70	20.50	43.50	-23.00	QP			
5	*	236.6447	45.79	-22.09	23.70	46.00	-22.30	QP			
6		962.1623	36.17	-7.97	28.20	54.00	-25.80	QP			



55 %

Humidity:



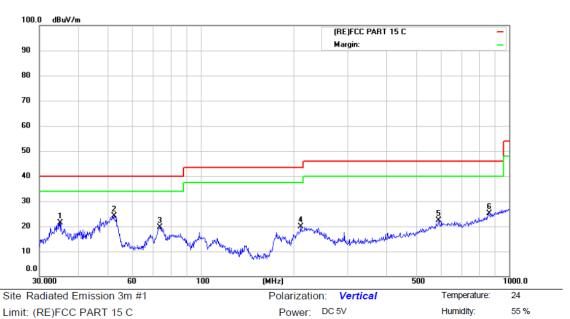
Power: DC 5V

Limit: (RE)FCC PART 15 C

Mode:wifi 2412 MHz

No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	34.7602	45.01	-24.11	20.90	40.00	-19.10	QP			
2 *	51.8430	48.41	-22.31	26.10	40.00	-13.90	QP			
3	74.3955	44.36	-24.76	19.60	40.00	-20.40	QP			
4	102.7192	40.84	-23.74	17.10	43.50	-26.40	QP			
5	175.0368	41.09	-24.49	16.60	43.50	-26.90	QP			
6	218.3085	41.46	-22.66	18.80	46.00	-27.20	QP			





Mode:wifi 2437 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		34.8823	45.50	-24.10	21.40	40.00	-18.60	QP			
2	*	52.3912	46.44	-22.34	24.10	40.00	-15.90	QP			
3		73.8756	44.41	-24.71	19.70	40.00	-20.30	QP			
4		210.7860	42.90	-22.90	20.00	43.50	-23.50	QP			
5		590.9737	35.38	-12.98	22.40	46.00	-23.60	QP			
6		860.0352	35.09	-9.89	25.20	46.00	-20.80	QP			





Limit: (RE)FCC PART 15 C

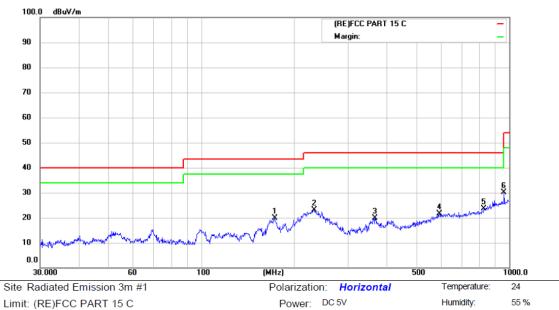
Mode:wifi 2437 MHz

No.	Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	169.0053	45.60	-24.70	20.90	43.50	-22.60	QP			
2		227.6906	45.77	-22.37	23.40	46.00	-22.60	QP			
3		246.8149	43.67	-21.77	21.90	46.00	-24.10	QP			
4		420.5803	37.33	-18.13	19.20	46.00	-26.80	QP			
5		642.8612	35.36	-12.76	22.60	46.00	-23.40	QP			
6		962.1622	37.77	-7.97	29.80	54.00	-24.20	QP			



Humidity:

55 %

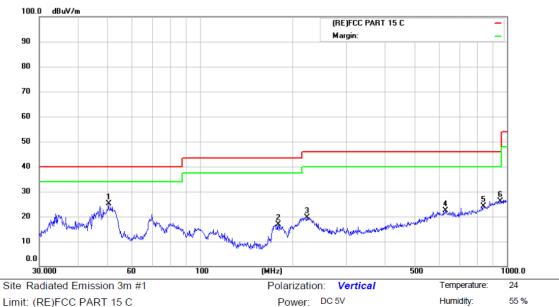


Limit: (RE)FCC PART 15 C

Mode:wifi 2462 MHz

No.	Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		173.2050	44.56	-24.56	20.00	43.50	-23.50	QP			
2		232.5318	45.42	-22.22	23.20	46.00	-22.80	QP			
3		366.8231	38.95	-19.15	19.80	46.00	-26.20	QP			
4		593.0496	34.51	-12.91	21.60	46.00	-24.40	QP			
5	*	827.4933	34.48	-10.78	23.70	46.00	-22.30	QP			
6		962.1621	38.17	-7.97	30.20	54.00	-23.80	QP			





Limit: (RE)FCC PART 15 C

Mode:wifi 2462MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	50.4089	47.38	-22.28	25.10	40.00	-14.90	QP			
2		180.0164	41.33	-24.33	17.00	43.50	-26.50	QP			
3		222.9502	42.12	-22.52	19.60	46.00	-26.40	QP			
4		631.6883	35.23	-12.73	22.50	46.00	-23.50	QP			
5		839.1818	34.66	-10.46	24.20	46.00	-21.80	QP			
6		952.0937	34.31	-8.11	26.20	46.00	-19.80	QP			



8.6 CONDUCTED EMISSIONS TEST

8.6.1 Applicable Standard

According to FCC Part 15.207(a)

8.6.2 Conformance Limit

Conducted Emission Limit

Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

8.6.3 Test Configuration

Test according to clause 7.3conducted emission test setup

8.6.4 Test Procedure

The EUT was placed on a table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

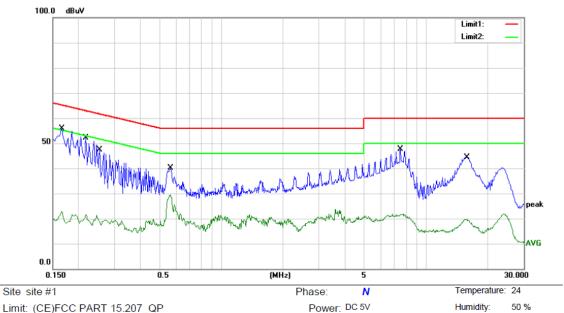
Repeat above procedures until all frequency measured were complete.

8.6.5 Test Results

Pass

The 120V &240V voltage have been tested, and the worst result recorded was report as below:



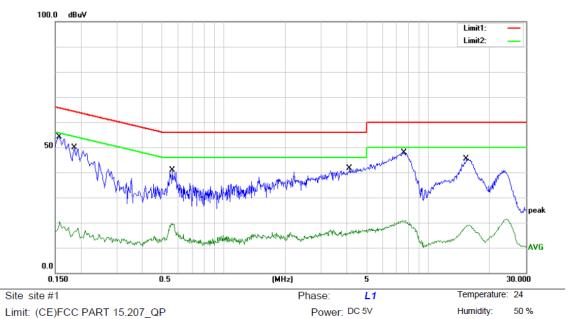


Limit: (CE)FCC PART 15.207_QP

Mode:TX Note:

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0.1660	45.70	10.08	55.78	65.16	-9.38	QP	
2	0.1660	12.70	10.08	22.78	55.16	-32.38	AVG	
3	0.2180	42.10	10.08	52.18	62.89	-10.71	QP	
4	0.2180	11.50	10.08	21.58	52.89	-31.31	AVG	
5	0.2540	37.20	10.09	47.29	61.63	-14.34	QP	
6	0.2540	8.60	10.09	18.69	51.63	-32.94	AVG	
7	0.5660	30.00	10.08	40.08	56.00	-15.92	QP	
8	0.5660	19.30	10.08	29.38	46.00	-16.62	AVG	
9	7.4980	37.10	10.43	47.53	60.00	-12.47	QP	
10	7.4980	11.10	10.43	21.53	50.00	-28.47	AVG	
11	15.8100	33.80	10.62	44.42	60.00	-15.58	QP	
12	15.8100	8.70	10.62	19.32	50.00	-30.68	AVG	





Mode: TX

No. M	1k. F	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0.	1580	43.90	10.08	53.98	65.57	-11.59	QP	
2	0.	1580	10.20	10.08	20.28	55.57	-35.29	AVG	
3	0.	1844	39.80	10.08	49.88	64.29	-14.41	QP	
4	0.	1844	5.80	10.08	15.88	54.29	-38.41	AVG	
5	0.	5620	30.70	10.08	40.78	56.00	-15.22	QP	
6	0.	5620	9.40	10.08	19.48	46.00	-26.52	AVG	
7	4.	1260	31.30	10.19	41.49	56.00	-14.51	QP	
8	4.	1260	5.80	10.19	15.99	46.00	-30.01	AVG	
9	7.	5700	37.40	10.43	47.83	60.00	-12.17	QP	
10	7.	5700	9.70	10.43	20.13	50.00	-29.87	AVG	
11	15.	3540	34.80	10.61	45.41	60.00	-14.59	QP	
12	15.	3540	8.10	10.61	18.71	50.00	-31.29	AVG	



8.7 ANTENNA APPLICATION

8.7.1 Antenna Requirement

Standard	Requirement
FCC CRF Part15.203	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 shall be considered sufficient to comply with the provisions of this section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217,§15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

For intentional device, according to FCC 47 CFR 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

8.7.2	Result PASS.
• Note:	The EUT has 1 antenna: one an PCB antenna for WIFI 2.4G, the gain is 3.7 dBi, Antenna uses a permanently attached antenna which is not replaceable. Not using a standard antenna jack or electrical connector for antenna replacement The antenna has to be professionally installed (please provide method of installation)
	Which in accordance to section 15.203, please refer to the internal photos.
	*** End of Report ***



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