

RF Test Report

Applicant : Getac Technology Corporation

Product Type : Wireless LAN Adapter

Trade Name : Getac

Model Number : 9260NGW

Test Specification : FCC 47 CFR PART 15 SUBPART E
ANSI C63.10:2013

Receive Date : Mar. 06, 2019

Test Period : Mar. 27 ~ Apr. 15, 2019

Issue Date : May 10, 2019

Issue by

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Taiwan Accreditation Foundation accreditation number: 1330
Test Firm MRA designation number: TW0010

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Revision History

Rev.	Issue Date	Revisions	Revised By
00	Apr. 22, 2019	Initial Issue	Janet Chao
01	May 08, 2019	Page 7 Revised Class II Permissive Change description.	Tobey Cheng
02	May 10, 2019	Page 8 Revised Antenna Type. Page 27~30 Revised Conducted Emission Note 1.	Tobey Cheng

Verification of Compliance

Issued Date: May 10, 2019

Applicant : Getac Technology Corporation
Product Type : Wireless LAN Adapter
Trade Name : Getac
Model Number : 9260NGW
FCC ID : QYL9260NG
EUT Rated Voltage : DC 3.7 V
Test Voltage : 120 Vac / 60 Hz
Applicable Standard : FCC 47 CFR PART 15 SUBPART E
ANSI C63.10:2013
Test Result : Complied

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Taiwan Accreditation Foundation accreditation number: 1330
<http://www.atl-lab.com.tw/e-index.htm>



A Test Lab Techno Corp. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by A Test Lab Techno Corp. based on interpretations and/or observations of test results. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Approved By : Fly Lu Reviewed By : Eric Ou Yang
(Manager) (Fly Lu) (Testing Engineer) (Eric Ou Yang)

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1 General Information

1.1. Summary of Test Result

Standard	Item	Result	Remark
FCC			
15.407(b)(6) 15.207	AC Power Conducted Emission	PASS	---
15.407(b) 15.205 / 15.209	Transmitter Radiated Emissions	PASS (Note 2)	---
15.407(a)	Maximum Conducted Output Power	PASS	---
15.407(a)	26 dB RF Bandwidth	N/A (Note 1)	---
15.407(e)	6 dB RF Bandwidth	N/A (Note 1)	---
15.407(a)	Maximum Power Spectral Density	N/A (Note 1)	---
15.407(g)	Frequency Stability	N/A (Note 1)	---
15.407(c)	Automatically discontinue transmission	PASS	---
15.407(a) 15.203	Antenna Requirement	PASS	---

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

Note1: Class II permissive change. No need for verification.

Note2: Transmitter Radiated Emissions in above 1 GHz use the worst Max. Output Power to do the test.

Standard	Description
CFR47, Part 15, Subpart C	Intentional Radiators
CFR47, Part 15, Subpart E	Unlicensed National Information Infrastructure Devices
ANSI C63. 10: 2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
KDB789033: D02	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E
KDB 662911 D01 v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc)

1.2. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB)
Conducted Emission	9 kHz ~ 150 kHz	2.7
	150 kHz ~ 30 MHz	2.7
Radiated Emission	9 kHz ~ 30 MHz	1.7
	30 MHz ~ 1000 MHz	5.7
	1000 MHz ~ 18000 MHz	5.5
	18000 MHz ~ 26500 MHz	4.8
	26500 MHz ~ 40000 MHz	4.8
Conducted Output Power		+0.27 dB / -0.28 dB

2 EUT Description

Applicant	Getac Technology Corporation 5F.,Building A,No.209,Sec.1 Nangang.,Rd., Taipei City, 11568, Taiwan		
Manufacturer	Intel Mobile Communications 100 Center Point Circle, Suite 200, Columbia, South Carolina 29210, USA		
Product Type	Wireless LAN Adapter		
Trade Name	Getac		
Model No.	9260NGW		
FCC ID	QYL9260NG		
Class II Permissive Change	This is to request a Class II permissive change for FCC ID: QYL9260NG, originally granted on 2019/3/26 The major change filed under this application is: Change #1: Additional Chassis added, Getac, model number: UX10 #2: Addition one antenna, the antenna type is same, the 2.4 GHz antenna gain is higher than the original application and the 5 GHz antenna gain is low than the original application. Therefore, 2.4 GHz band RSE verification will be executed and the RF report will be submitted afterwards.		
Host Information	Product Type: Tablet Trade Name: Getac Model Name: UX10		
Operate Frequency	Frequency Band		Frequency Range (MHz)
	IEEE 802.11a	U-NII Band I	5180 – 5240
		U-NII Band II-A	5260 – 5320
		U-NII Band II-C	5500 – 5700
		U-NII Band III	5745 – 5825
	IEEE 802.11n 5 GHz 20 MHz	U-NII Band I	5180 – 5240
		U-NII Band II-A	5260 – 5320
		U-NII Band II-C	5500 – 5700
		U-NII Band III	5745 – 5825
	IEEE 802.11n 5 GHz 40 MHz	U-NII Band I	5190 – 5230
		U-NII Band II-A	5270 – 5310
		U-NII Band II-C	5510 – 5670
		U-NII Band III	5710 – 5795
	IEEE 802.11ac 80 MHz	U-NII Band I	5210
		U-NII Band II-A	5290
		U-NII Band II-C	5530 – 5690
		U-NII Band III	5775
	IEEE 802.11ac 160 MHz	U-NII Band I+ U-NII Band II-A	5250
		U-NII Band II-C	5570
Modulation Type	OFDM		
Equipment Type	Client devices		

Antenna information	ANT	Model Number	Type	Frequency (MHz)	Max. Gain (dBi)
	Main (ANT-0)	T-0239 UX10 MAIN WIFI ANT	PIFA Antenna	5150~5250	2.14
				5250~5350	2.43
				5470~5725	4.37
				5725~5850	3.43
	AUX (ANT-1)	T-0239 UX10 AUX WIFI ANT	PIFA Antenna	5150~5250	1.71
				5250~5350	1.27
				5470~5725	1.18
				5725~5850	1.40
Antenna Delivery	Reference section 3.1				
Frequency stability specification	± 20 ppm				
Operate Temp. Range	0 ~ +80 ℃				



Frequency Band		RF Output Power (W)	
		SYSTEM 2 Full	SYSTEM 1 Basic
IEEE 802.11a	U-NII Band I	0.088	0.013
	U-NII Band II-A	0.099	0.014
	U-NII Band II-C	0.110	0.019
	U-NII Band III	0.134	0.017
IEEE 802.11n 5 GHz 20 MHz	U-NII Band I	0.090	0.013
	U-NII Band II-A	0.089	0.013
	U-NII Band II-C	0.111	0.019
	U-NII Band III	0.124	0.016
IEEE 802.11n 5 GHz 40 MHz	U-NII Band I	0.079	0.013
	U-NII Band II-A	0.062	0.013
	U-NII Band II-C	0.108	0.018
	U-NII Band III	0.085	0.016
IEEE 802.11ac 80 MHz	U-NII Band I	0.054	0.013
	U-NII Band II-A	0.040	0.014
	U-NII Band II-C	0.109	0.017
	U-NII Band III	0.063	0.017
IEEE 802.11ac 160 MHz	U-NII Band I+ U-NII Band II-A	0.019	0.009
	U-NII Band II-C	0.029	0.018

Equipment Type		
Outdoor access point	point-to-point	---
	point-to-multipoint	---
Indoor access point		---
Fixed point-to-point access points		---
Client devices		V

3 Test Methodology

3.1. Mode of Operation

Decision of Test ATL has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Test Mode
Mode 1: Transmit mode
Mode 2: IEEE 802.11a Continuous TX mode
Mode 3: IEEE 802.11n 5 GHz 20 MHz Continuous TX mode
Mode 4: IEEE 802.11n 5 GHz 40 MHz Continuous TX mode
Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode
Mode 6: IEEE 802.11ac 160 MHz Continuous TX Mode

Software used to control the EUT for staying in continuous transmitting mode was programmed.

After verification, all tests were carried out with the worst case test modes.

Test Mode	ANT-0	ANT-1	ANT-0+1
Mode 2	V	V	---
Mode 3	V	V	---
Mode 4	V	V	---
Mode 5	V	V	---
Mode 6	V	V	---



Test Mode	Antenna Delivery	Data Rate (Mbps)	Band	Test Channel
Mode 2	1TX (Diversity)	6	U-NII Band I	36, 40, 44, 48
			U-NII Band II-A	52, 56, 60, 64
			U-NII Band II-C	100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140
			U-NII Band III	144, 149, 153, 157, 161, 165
Mode 3	1TX (Diversity)	6.5	U-NII Band I	36, 40, 44, 48
			U-NII Band II-A	52, 56, 60, 64
			U-NII Band II-C	100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140
			U-NII Band III	144, 149, 153, 157, 161, 165
Mode 4	1TX (Diversity)	13.5	U-NII Band I	38, 46
			U-NII Band II-A	54, 62
			U-NII Band II-C	102, 110, 118, 126, 134
			U-NII Band III	142, 151, 159
Mode 5	1TX (Diversity)	29.3	U-NII Band I	42
			U-NII Band II-A	58
			U-NII Band II-C	106, 122, 138
			U-NII Band III	155
Mode 6	1TX (Diversity)	58.6	U-NII Band I+ U-NII Band II-A	50
			U-NII Band II-C	114

Decision of Test Mode		V	V
Description	Remarks	SYSTEM 2 Full	SYSTEM 1 Basic
Main Board	---	V	V
CPU	i7 4.60 GHz	V	
	i5 3.90 GHz		V
Memory	8 GB		V
	16 GB	V	
HDD	256 GB		V
	512 GB	V	
LCM	Digitizer	V	
Upside Option	NXP RFID		V
	SE4710	V	
STD Battery (Optional)	11.1 VDC, 4200 mAh		V
Large Battery (Optional)	10.8 VDC, 9240 mAh	V	
Bridge Battery (Optional)	7.4 VDC, 2100 mAh	V	
Fingerprint CrossMatch	Right Expansion Bay	V	
MSR Reader		V	
Module	WLAN/BT	V	V
	WWAN / GPS	V	
	GPS/GNS		V
Capacitive Pen	---		V
AC Adapter (1)	INPUT: 100-240 VAC, 50-60 Hz, 1.5 A OUTPUT: 19 VDC, 3.42 A Non-Shielded,1.5 m, with one core	V	V
AC Adapter (2)	INPUT: 100-240 VAC, 50-60 Hz, 1.5 A OUTPUT: 19 VDC, 4.74 A Non-Shielded,1.55 m		
Power Cord (1)	3 pin Non-Shielded,1.75 m	V	V
Power Cord (2)	3 pin Non-Shielded,1.75 m With AC Adapter model: ADM-9019M		
Digitizer Pen (Optional)	---	V	

Note: SYSTEM 2 Full is the worst case in Transmitter Radiated Emissions.

3.2. EUT Test Step

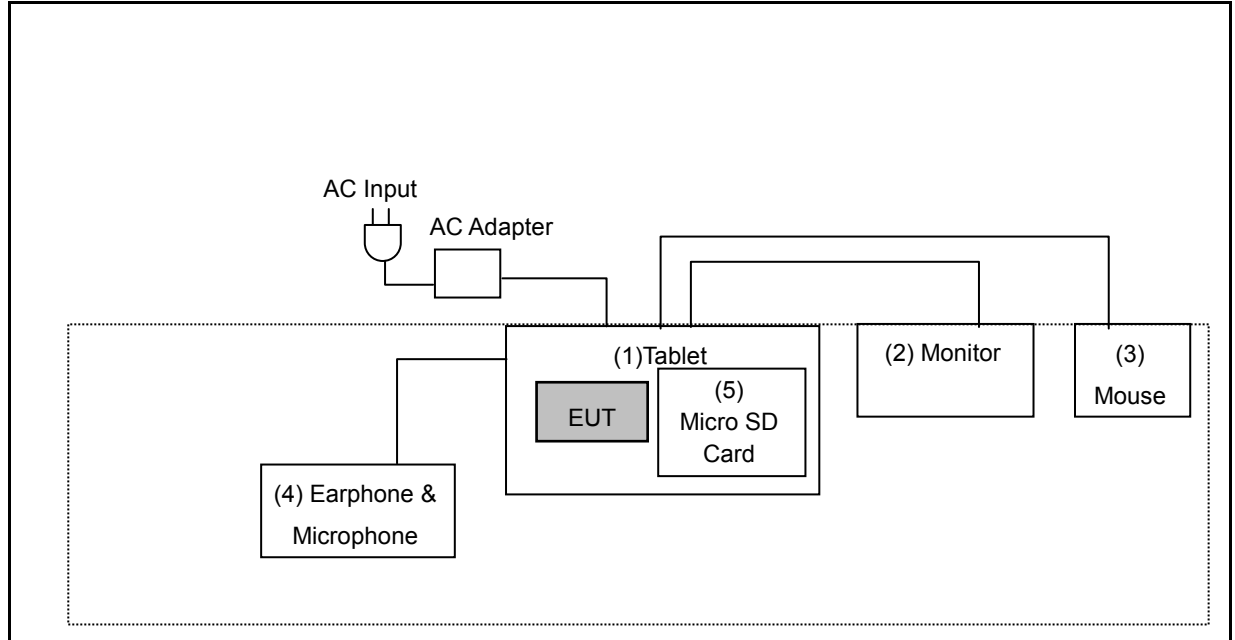
The EUT is operated in the engineering mode to fix the TX frequency for the purposes of measurement. According to its specifications, the EUT must comply with the requirements of Section 15.407 under the FCC Rules Part 15 Subpart E.

1.	Setup the EUT shown on “Configuration of Test System Details”.
2.	Turn on the power of all equipment.
3.	Turn on TX function.
4.	EUT run test program.

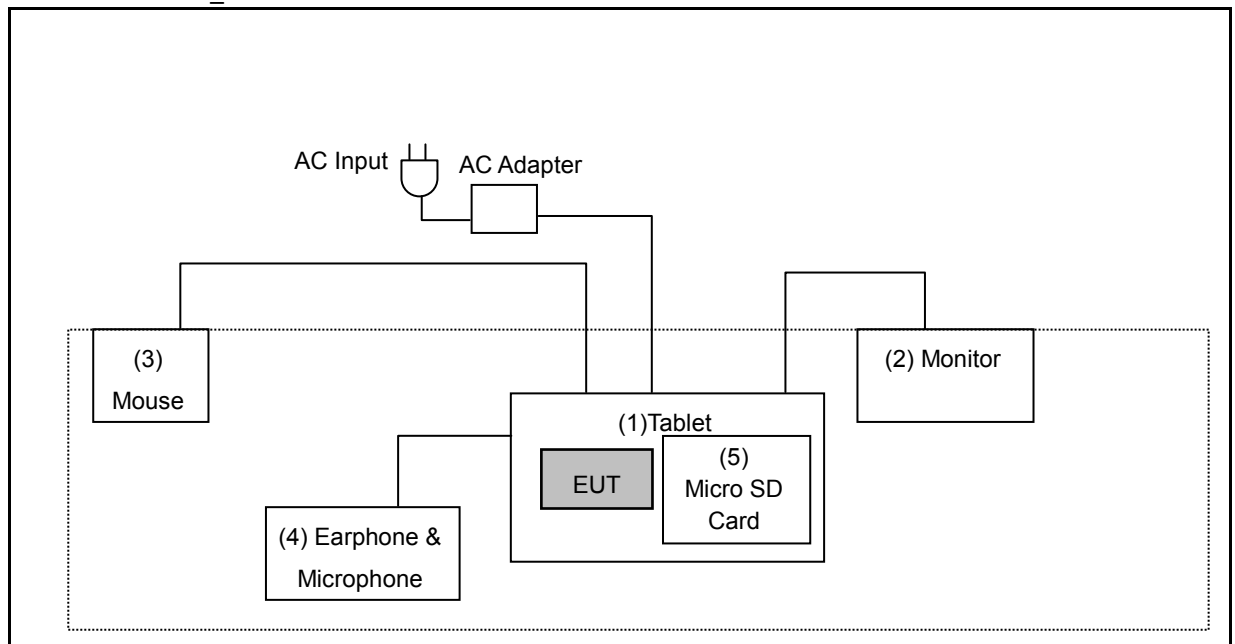
Measurement Software			
No.	Description	Software	Version
1	Conducted Emission	EZ EMC	1.1.4.3
2	Radiated Emission	EZ EMC	1.1.4.4

3.3. Configuration of Test System Details

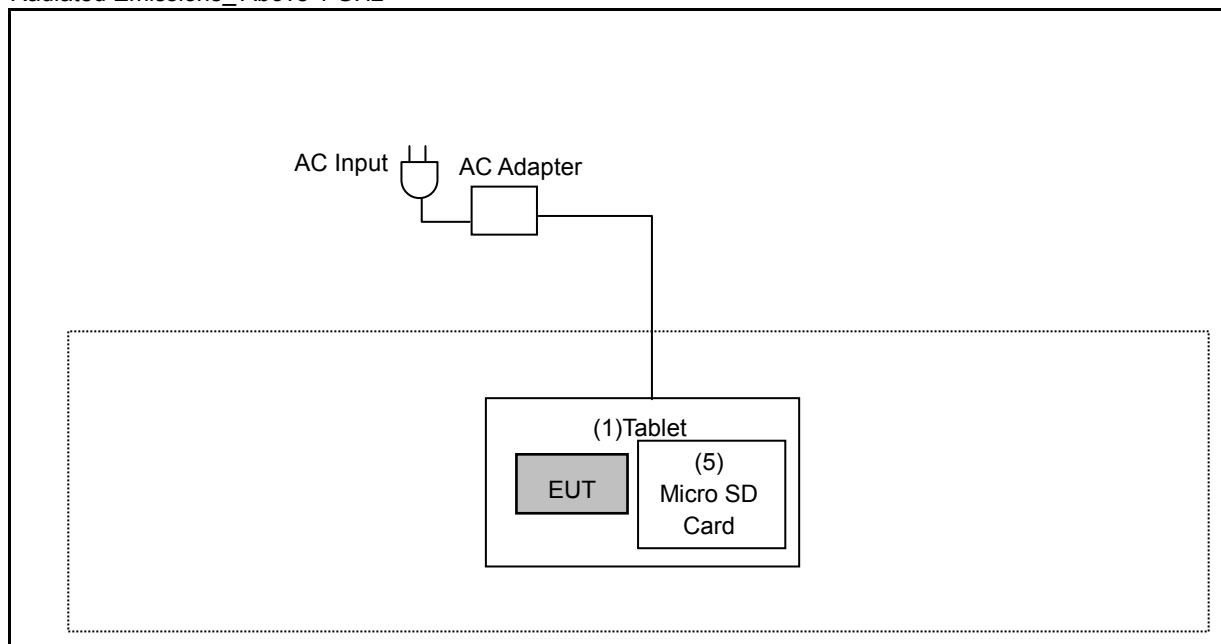
Conducted Emission



Radiated Emission_ Below 1 GHz



Radiated Emissions_ Above 1 GHz



Devices Description					
	Product	Manufacturer	Model Number	Serial Number	Power Cord
(1)	Tablet	Getac	UX10	---	---
(2)	Monitor	DELL	P2415Qb	CN-0D3C8Y-74261-523-0HUL	---
(3)	Mouse	Logitech	M-UAG96B	---	---
(4)	Earphone & Microphone	HTC	---	---	---
(5)	Micro SD Card	Transcend	---	---	---

3.4. Test Instruments

For Conducted Emission

Test Period: Mar. 27, 2019

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Test Receiver	R&S	ESCI	100367	05/21/2018	1 year
LISN	R&S	ENV216	101040	04/11/2018	1 year
RF Cable	Woken	00100D1380194M	TE-02-03	05/17/2018	1 year

For Radiated Emissions

Test Period: Apr. 03 ~ Apr. 15, 2019

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
EXA Signal Analyzer (10 Hz~44 GHz)	Keysight	N9010A	MY52221312	01/14/2019	1 year
Pre Amplifier (1~26.5 GHz)	Agilent	8449B	3008A02237	10/16/2018	1 year
Pre Amplifier (100 kHz~1.3 GHz)	Agilent	8447D	2944A11119	01/14/2019	1 year
Trilog Broadband Antenna	Schwarzbeck Mess-Elektronik	VULB9168	416	10/23/2018	1 year
Horn Antenna (1~18 GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	08/23/2018	1 year
Horn Antenna (18~40GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9170	9170-320	08/07/2018	1 year
Pre Amplifier (26.5~40 GHz)	EMCI	EMC2654045	980028	08/23/2018	1 year
Loop Antenna	Electro-Metrics	EMCI-LPA600	277	04/19/2018	1 year
RF Cable	EMCI	EMC104-N-N-6000	TE01-1	02/20/2019	1 year
Microwave Cable	EMCI	EMC104-SM-SM-1 3000	170814	10/30/2018	1 year
Microwave Cable	EMCI	EMC102-KM-KM-1 4000	151001	02/20/2019	1 year



For Conducted

Test Period: Apr. 12, 2019

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Spectrum Analyzer (20 Hz~26.5 GHz)	Agilent	N9020A	US47520902	09/25/2018	1 year
Power Sensor	Anritsu	MA2411B	1126022	08/29/2018	1 year
Power Meter	Anritsu	ML2495A	1135009	08/29/2018	1 year
Microwave Cable	EMCI	EMC102-SM-SM15 00	001	11/21/2018	1 year

3.5. Test Site Environment

Items	Required (IEC 60068-1)	Actual
Temperature (°C)	15-35	26
Humidity (%RH)	25-75	60
Barometric pressure (mbar)	860-1060	990

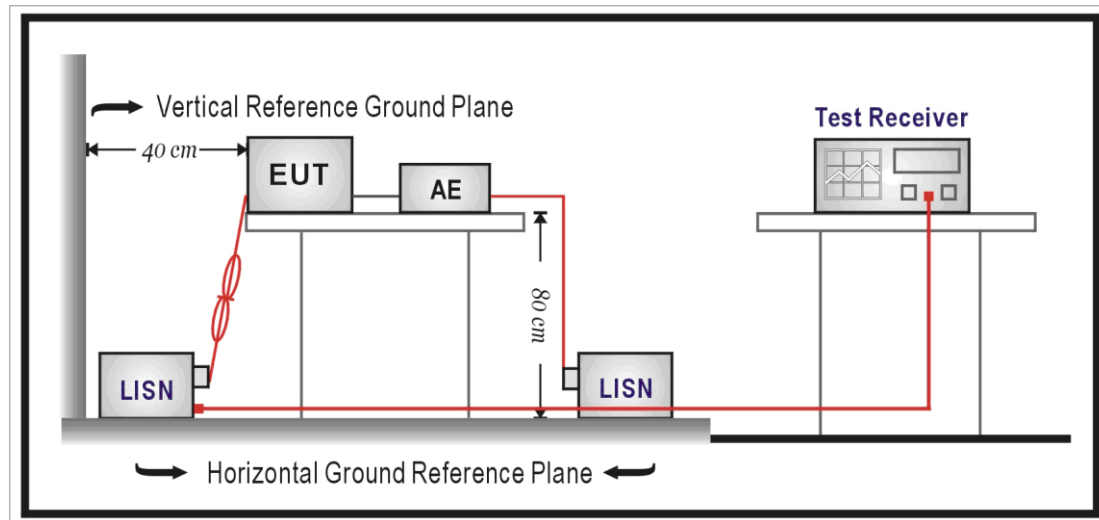
4 Measurement Procedure

4.1. AC Power Conducted Emission Measurement

■ Limit

Frequency (MHz)	Quasi-peak	Average
0.15 - 0.5	66 to 56	56 to 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

■ Test Setup



■ Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a $50\ \Omega // 50\ \mu\text{H}$ coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a $50\ \Omega // 50\ \mu\text{H}$ coupling impedance with 50 ohm termination.

Tabletop device shall be placed on a non-conducting platform, of nominal size 1 m by 1.5 m, raised 80 cm above the reference ground plane. The wall of screened room shall be located 40 cm to the rear of the EUT. Other surfaces of tabletop or floor standing EUT shall be at least 80 cm from any other ground conducting surface including one or more LISNs. For floor-standing device shall be placed under the EUT with a 12 mm insulating material.

Conducted emissions were investigated over the frequency range from 0.15 MHz to 30 MHz using a resolution bandwidth of 9 kHz. The equipment under test (EUT) shall be meet the limits in section 4.1, as applicable, including the average limit and the quasi-peak limit when using respectively, an average detector and quasi-peak detector measured in accordance with the methods described of related standard. When all of peak value were complied with quasi-peak and average limit from 150 kHz to 30 MHz then quasi-peak and average measurement was unnecessary.

The AMN shall be placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for AMNs mounted on top of the ground reference plane. This distance is between the closest points of the AMN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8 m from the AMN. If the mains power cable is longer than 1 m then the cable shall be folded back and forth at the centre of the lead to form a bundle no longer than 0.4 m. All of interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long. All of EUT and AE shall be separate place more than 0.1 m. All 50 Ω ports of the LISN shall be resistively terminated into 50 Ω loads when not connected to the measuring instrument.

If the reading of the measuring receiver shows fluctuations close to the limit, the reading shall be observed for at least 15 s at each measurement frequency; the higher reading shall be recorded with the exception of any brief isolated high reading which shall be ignored

4.2. Transmitter Radiated Emissions Measurement

■ Limit

(1)Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(a)For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(b)For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(c)For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(d)For transmitters operating in the 5.725-5.85 GHz band:

(i)All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

(2)Limits of Radiated Emission Measurement

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

Frequency Range (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	10	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

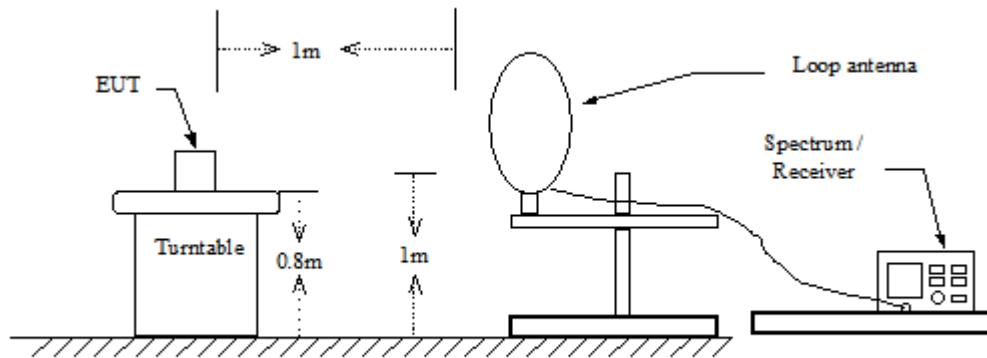
Note: 1. The lower limit shall apply at the transition frequencies.

2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

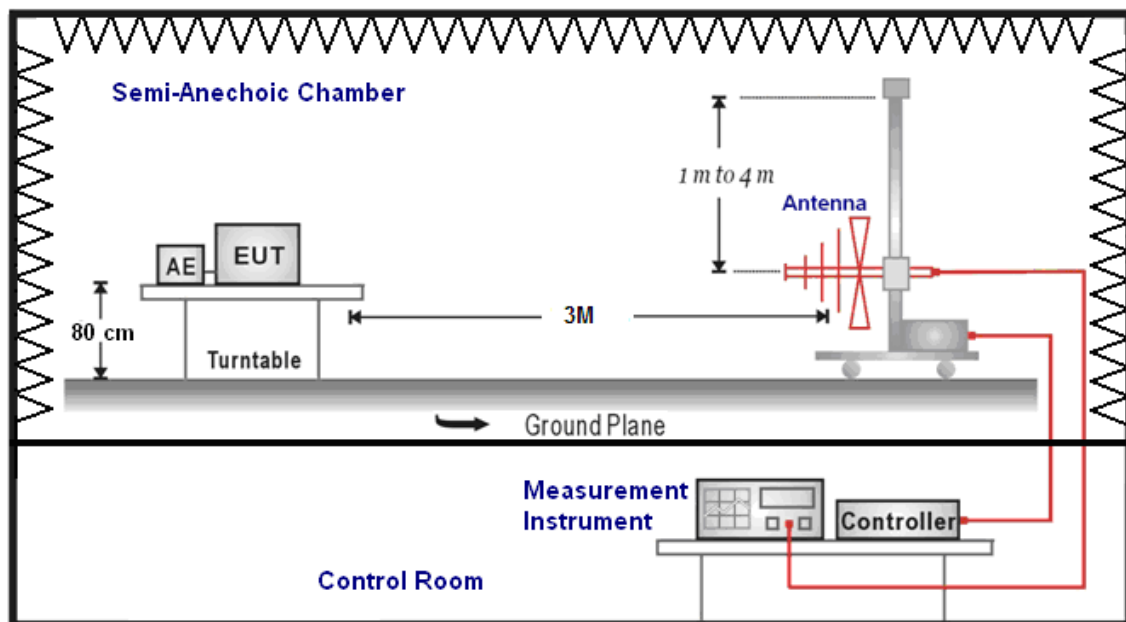
3. As shown in 15.35(b), for frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

■ Setup

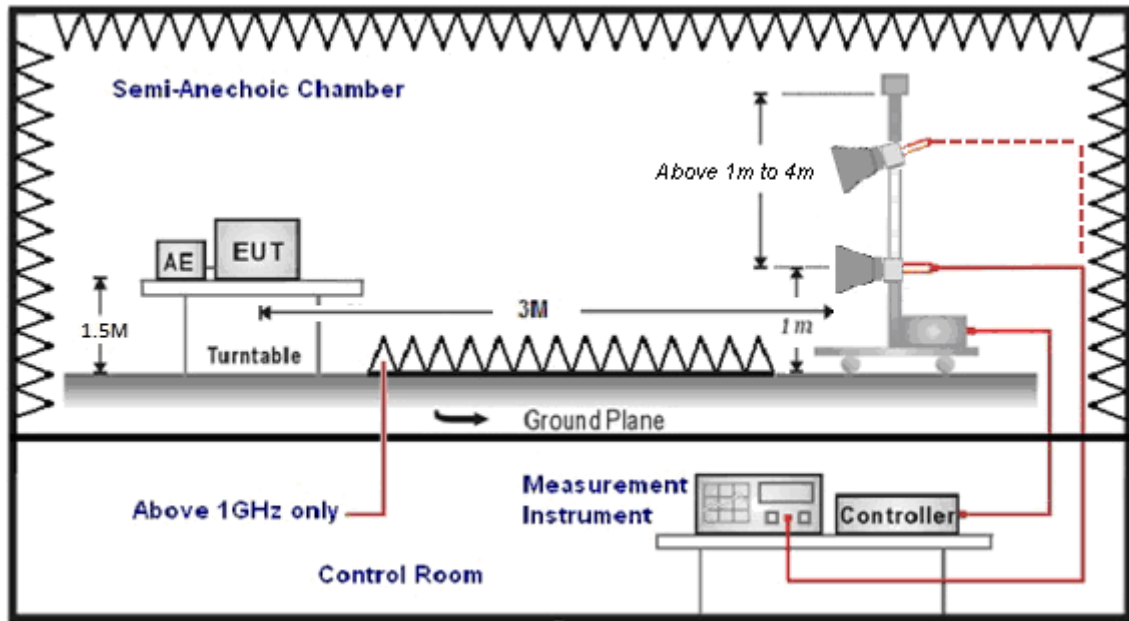
9 kHz ~ 30 MHz



30 MHz ~ 1 GHz



Above 1 GHz



■ Test Procedure

Final radiation measurements were made on a three-meter, Semi Anechoic Chamber. The EUT system was placed on a nonconductive turntable which is 0.8 or 1.5 meters height (below 1 GHz use 0.8 m turntable / above 1 GHz use 1.5 m turntable), top surface 1.0 x 1.5 meter. The spectrum was examined from 250 MHz to 2.5 GHz in order to cover the whole spectrum below 10th harmonic which could generate from the EUT. During the test, EUT was set to transmit continuously & Measurements spectrum range from 9 kHz to 40 GHz is investigated.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For restricted measurements above 1 GHz the resolution bandwidth is set to 1 MHz, and then the video bandwidth is set to 3 MHz for peak measurements and 10 Hz for average measurements when Duty cycle > 0.98 / 1/T for average measurements when Duty cycle < 0.98.

For out of band measurements above 1 GHz the resolution bandwidth is set to 1 MHz, and then the video bandwidth is set to 3 MHz for peak measurements.

A nonconductive material surrounded the EUT to supporting the EUT for standing on three orthogonal planes. At each condition, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters to find the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarization.

SCHWARZBECK MESS-ELEKTRONIK Trilog-Broadband Antenna at 3 Meter and the ETS-Lindgren Double-Ridged Waveguide Horn antenna Schwarzbeck Mess-Elektronik Broadband Horn Antenna was used in frequencies 1 – 40 GHz at a distance of 3 meter. The antenna at an angle toward the source of the emission. All test results were extrapolated to equivalent signal at 3 meters utilizing an inverse linear distance extrapolation Factor (20 dB/decade).

For testing above 1 GHz, the emission level of the EUT in peak mode was 20 dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

Appropriate preamplifiers were used for improving sensitivity and precautions were taken to avoid overloading or desensitizing the spectrum analyzer. No post – detector video filters were used in the test.

The spectrum analyzer's 6 dB bandwidth was set to 1 MHz, and the analyzer was operated in the peak detection mode, for frequencies both below and up 1 GHz. The average levels were obtained by subtracting the duty cycle correction factor from the peak readings.

The following procedures were used to convert the emission levels measured in decibels referenced to 1 microvolt (dBuV) into field intensity in micro volts per meter (uV/m).

The actual field intensity in decibels referenced to 1 microvolt in to field intensity in micro volts per meter (dBuV/m).

The actual field is intensity in referenced to 1 microvolt per meter (dBuV/m) is determined by algebraically adding the measured reading in dBuV, the antenna factor (dB), and cable loss (dB) and Subtracting the gain of preamplifier (dB) is auto calculate in spectrum analyzer.

(1) Amplitude (dBuV/m) = FI (dBuV) +AF (dBuV) +CL (dBuV)-Gain (dB)

FI= Reading of the field intensity.

AF= Antenna factor.

CL= Cable loss.

P.S Amplitude is auto calculate in spectrum analyzer.

(2) Actual Amplitude (dBuV/m) = Amplitude (dBuV)-Dis(dB)

The FCC specified emission limits were calculated according the EUT operating frequency and by following linear interpolation equations:

(a) For fundamental frequency : Transmitter Output < +30 dBm

(b) For spurious frequency : Spurious emission limits = fundamental emission limit /10

Measuring Instruments and setting

The following table is the setting of spectrum analyzer and receiver.

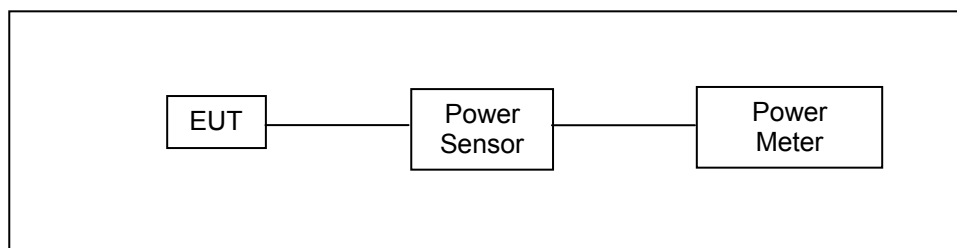
Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	40 GHz
RBW/VBW(Emission in restricted band)	1 MHz / 3 MHz for Peak 1 MHz / (1/T) for Average
RBW/VBW(Emission in non-restricted band)	1 MHz / 3 MHz for Peak

4.3. Maximum Conducted Output Power Measurement

■ Limit

Frequency Range (MHz)	FCC Maximum Conducted Output Power Limit
	Client
5.150 ~ 5.250 GHz	The lesser of 250 mW (24 dBm)
5.250 ~ 5.350 GHz	The lesser of 250 mW (24 dBm) or 11 dBm + 10 log (B)
5.470 ~ 5.725 GHz	The lesser of 250 mW (24 dBm) or 11 dBm + 10 log (B)
5.725 ~ 5.850 GHz	The lesser of 1 W (30 dBm)

■ Test Setup



■ Test Procedure

The test is performed in accordance with ANSI C63.10:2013 section 12.3.3.2, Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices

Section (E) Maximum Conducted Output Power

3. Measurement using a Power Meter (PM)

b) Method PM-G (Measurement using a gated RF average power meter)

4.4. Automatically discontinue transmission

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

■ Declare

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving.

The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

4.5. Antenna Requirement

■ Limit

For intentional device, according to 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 15.407 (a), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

■ Antenna Connector Construction

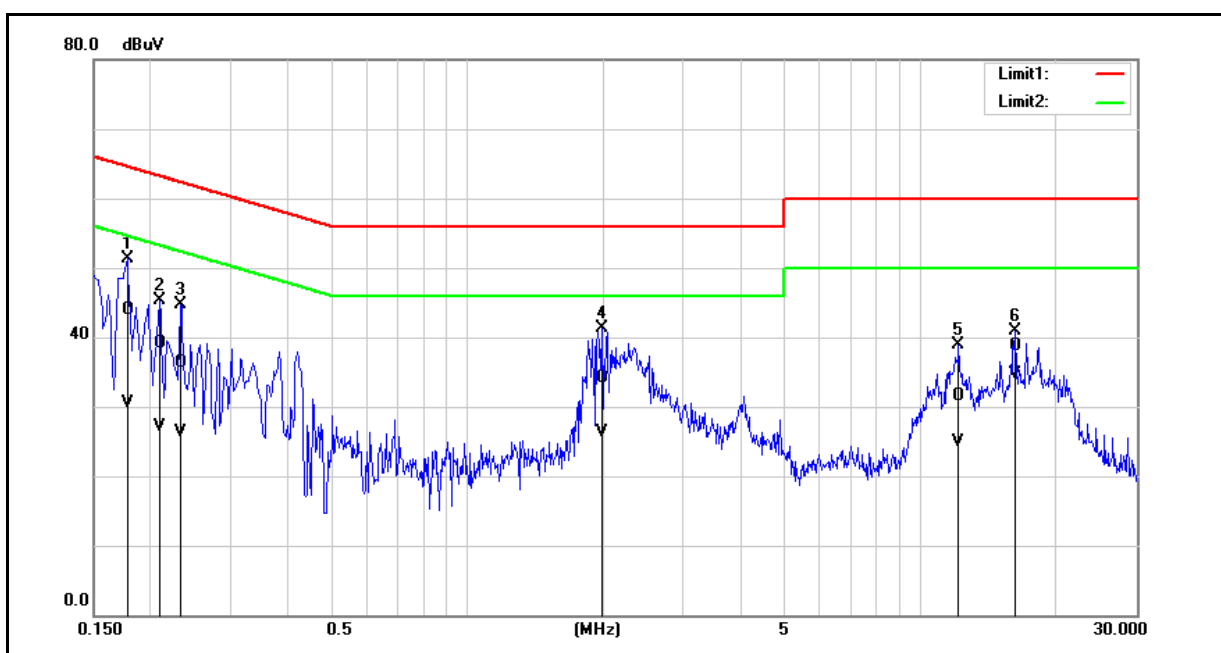
See section 2 – antenna information.

5 Test Results

5.1. AC Power Conducted Emission Measurement

SYSTEM 2 Full

Standard:	FCC Part 15.407	Line:	L1
Test item:	Conducted Emission	Power:	AC 120 V/60 Hz
Test Mode:	Mode 1	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Description:			

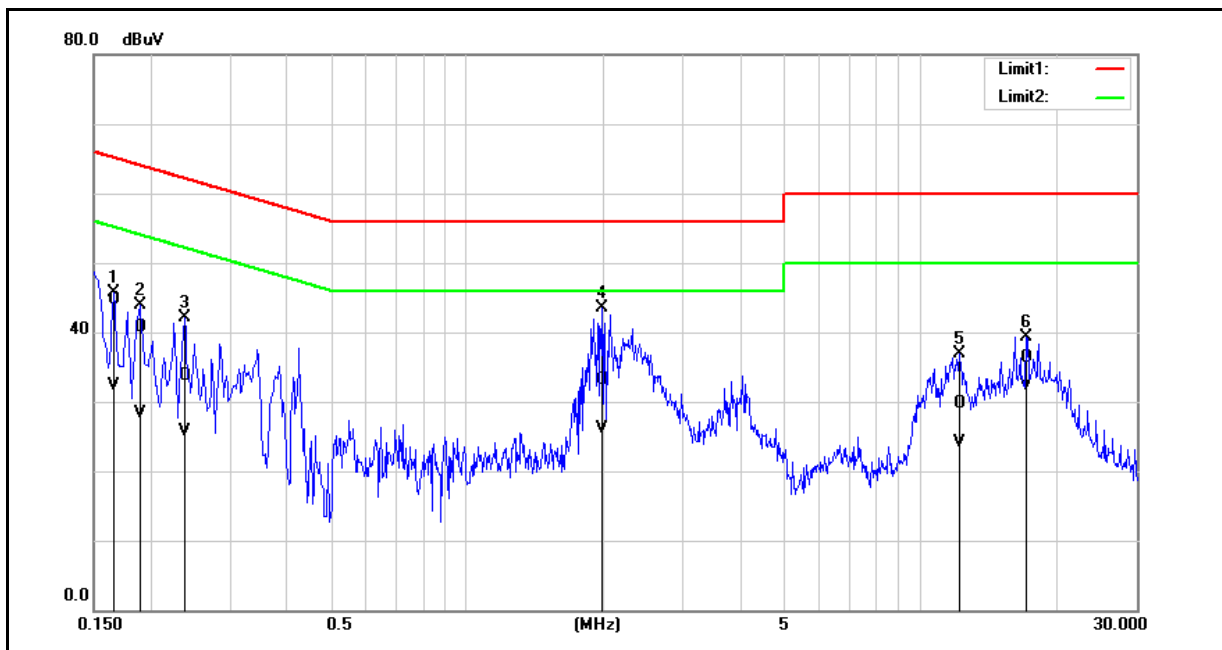


No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1780	34.33	21.05	9.52	43.85	30.57	64.58	54.58	-20.73	-24.01	Pass
2	0.2100	29.63	17.63	9.52	39.15	27.15	63.21	53.21	-24.06	-26.06	Pass
3	0.2340	26.81	16.79	9.52	36.33	26.31	62.31	52.31	-25.98	-26.00	Pass
4	1.9860	24.43	16.72	9.60	34.03	26.32	56.00	46.00	-21.97	-19.68	Pass
5	12.1700	21.72	15.07	9.79	31.51	24.86	60.00	50.00	-28.49	-25.14	Pass
6	16.1500	28.84	24.94	9.83	38.67	34.77	60.00	50.00	-21.33	-15.23	Pass

Note: 1. Result (dBuV) = Correct Factor (dB) + Reading(dBuV).

2. Correction factor (dB) = Cable loss (dB) + L.I.S.N. factor (dB).

Standard:	FCC Part 15.407	Line:	N
Test item:	Conducted Emission	Power:	AC 120 V/60 Hz
Test Mode:	Mode 1	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Description:			

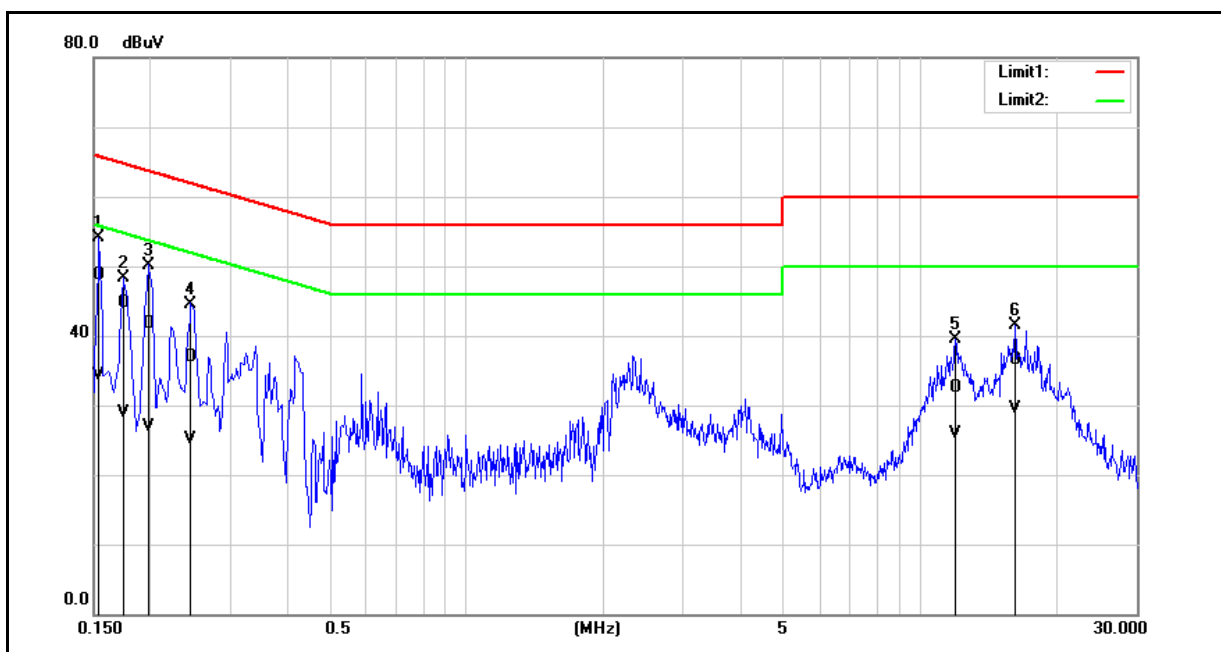


No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1660	35.10	22.68	9.60	44.70	32.28	65.16	55.16	-20.46	-22.88	Pass
2	0.1900	31.15	18.79	9.59	40.74	28.38	64.04	54.04	-23.30	-25.66	Pass
3	0.2380	24.14	16.04	9.59	33.73	25.63	62.17	52.17	-28.44	-26.54	Pass
4	1.9900	23.38	16.46	9.66	33.04	26.12	56.00	46.00	-22.96	-19.88	Pass
5	12.2300	19.75	14.23	9.89	29.64	24.12	60.00	50.00	-30.36	-25.88	Pass
6	17.1980	26.26	22.28	9.99	36.25	32.27	60.00	50.00	-23.75	-17.73	Pass

Note: 1. Result (dBuV) = Correct Factor (dB) + Reading(dBuV).
2. Correction factor (dB) = Cable loss (dB) + L.I.S.N. factor (dB).

SYSTEM 1 Basic

Standard:	FCC Part 15.407	Line:	L1
Test item:	Conducted Emission	Power:	AC 120 V/60 Hz
Test Mode:	Mode 1	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Description:			

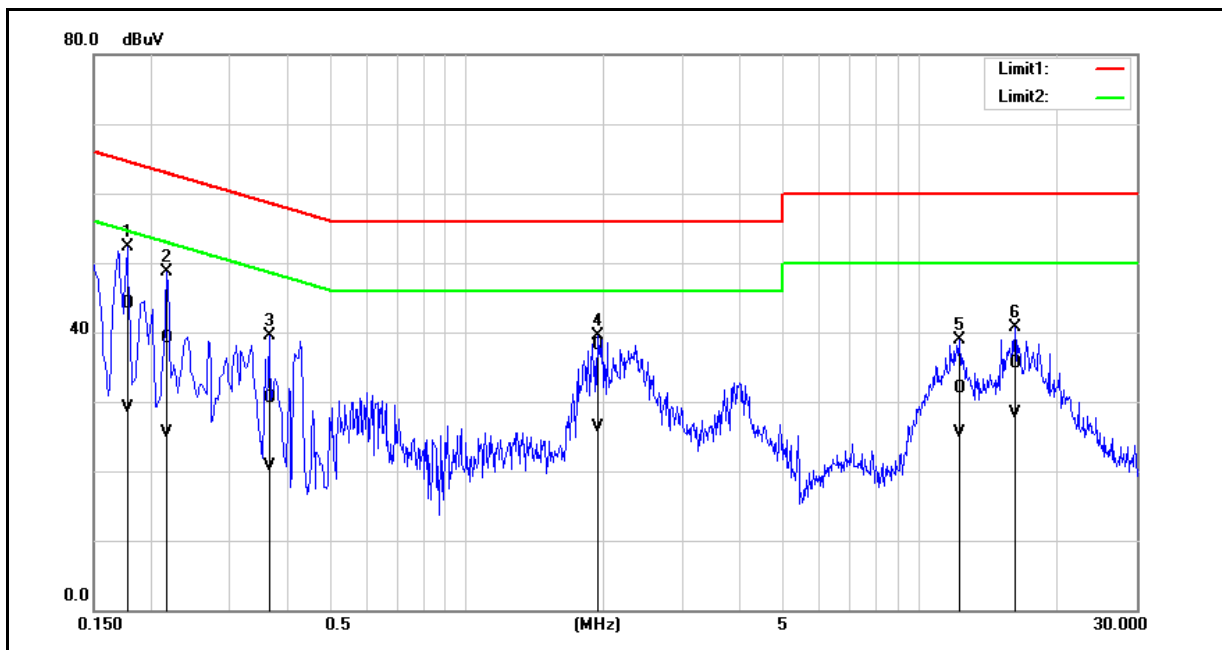


No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1540	39.27	24.87	9.52	48.79	34.39	65.78	55.78	-16.99	-21.39	Pass
2	0.1740	35.10	19.44	9.52	44.62	28.96	64.77	54.77	-20.15	-25.81	Pass
3	0.1980	32.28	17.29	9.52	41.80	26.81	63.69	53.69	-21.89	-26.88	Pass
4	0.2460	27.37	15.68	9.52	36.89	25.20	61.89	51.89	-25.00	-26.69	Pass
5	11.9380	22.66	16.14	9.79	32.45	25.93	60.00	50.00	-27.55	-24.07	Pass
6	16.1420	26.76	19.76	9.83	36.59	29.59	60.00	50.00	-23.41	-20.41	Pass

Note: 1. Result (dBuV) = Correct Factor (dB) + Reading(dBuV).

2. Correction factor (dB) = Cable loss (dB) + L.I.S.N. factor (dB).

Standard:	FCC Part 15.407	Line:	N
Test item:	Conducted Emission	Power:	AC 120 V/60 Hz
Test Mode:	Mode 1	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Description:			



No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1780	34.50	19.60	9.59	44.09	29.19	64.58	54.58	-20.49	-25.39	Pass
2	0.2180	29.43	15.99	9.59	39.02	25.58	62.89	52.89	-23.87	-27.31	Pass
3	0.3660	20.97	11.20	9.60	30.57	20.80	58.59	48.59	-28.02	-27.79	Pass
4	1.9420	28.43	16.56	9.66	38.09	26.22	56.00	46.00	-17.91	-19.78	Pass
5	12.2300	21.99	15.56	9.89	31.88	25.45	60.00	50.00	-28.12	-24.55	Pass
6	16.1460	25.44	18.31	9.97	35.41	28.28	60.00	50.00	-24.59	-21.72	Pass

Note: 1. Result (dBuV) = Correct Factor (dB) + Reading(dBuV).
2. Correction factor (dB) = Cable loss (dB) + L.I.S.N. factor (dB).

5.2. Transmitter Radiated Emissions Measurement

SYSTEM 2 Full

Below 1 GHz

Standard:		FCC Part 15.407		Test Distance:		3 m	
Test item:		Harmonic		Power:		AC 120 V/60 Hz	
Test Mode:		Mode 1		Temp.(°C)/Hum.(%RH):		26(°C)/60 %RH	
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
159.0100	41.87	-5.35	36.52	43.50	-6.98	QP	H
337.4900	38.54	-3.20	35.34	46.00	-10.66	QP	H
567.3800	37.18	1.59	38.77	46.00	-7.23	QP	H
674.0800	34.71	3.69	38.40	46.00	-7.60	QP	H
791.4500	31.79	6.20	37.99	46.00	-8.01	QP	H
904.9400	29.48	7.90	37.38	46.00	-8.62	QP	H
153.1900	41.49	-5.54	35.95	43.50	-7.55	QP	V
289.9600	39.78	-4.12	35.66	46.00	-10.34	QP	V
498.5100	36.51	0.17	36.68	46.00	-9.32	QP	V
568.3500	36.74	1.62	38.36	46.00	-7.64	QP	V
788.5400	31.94	6.17	38.11	46.00	-7.89	QP	V
875.8400	31.30	7.42	38.72	46.00	-7.28	QP	V

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

Example: 36.52 = -5.35+41.87

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.



SYSTEM 1 Basic

Below 1 GHz

Standard:		FCC Part 15.407		Test Distance:		3 m	
Test item:		Harmonic		Power:		AC 120 V/60 Hz	
Test Mode:		Mode 1		Temp.(°C)/Hum.(%RH):		26(°C)/60 %RH	
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
183.2600	41.35	-6.95	34.40	43.50	-9.10	QP	H
299.6600	38.94	-3.74	35.20	46.00	-10.80	QP	H
558.6500	33.83	1.34	35.17	46.00	-10.83	QP	H
619.7600	33.53	2.81	36.34	46.00	-9.66	QP	H
788.5400	32.36	6.17	38.53	46.00	-7.47	QP	H
950.5300	28.69	8.68	37.37	46.00	-8.63	QP	H
93.0500	45.14	-11.84	33.30	43.50	-10.20	QP	V
291.9000	37.84	-4.04	33.80	46.00	-12.20	QP	V
525.6700	35.67	0.65	36.32	46.00	-9.68	QP	V
621.7000	34.07	2.84	36.91	46.00	-9.09	QP	V
704.1500	33.38	4.29	37.67	46.00	-8.33	QP	V
938.8900	30.56	8.49	39.05	46.00	-6.95	QP	V

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

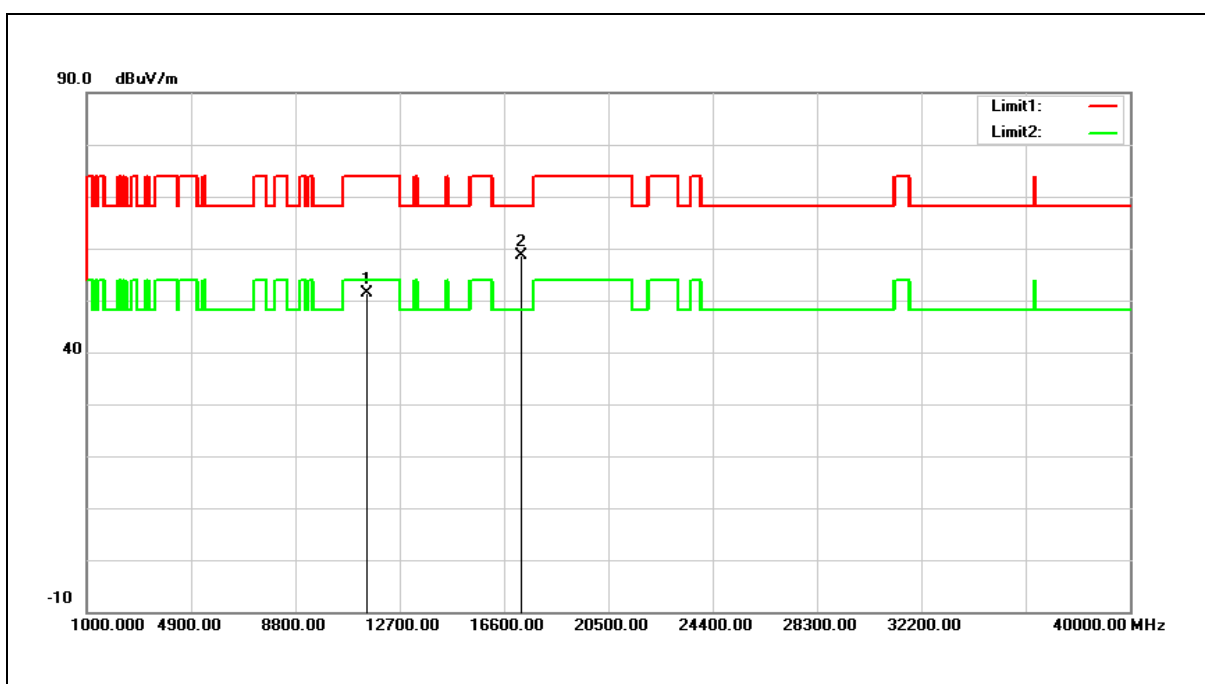
2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

SYSTEM 2 Full

Above 1 GHz

Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5745 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	32.87	18.46	51.33	74.00	-22.67	peak
2	17235.000	34.42	24.18	58.60	68.20	-9.60	peak

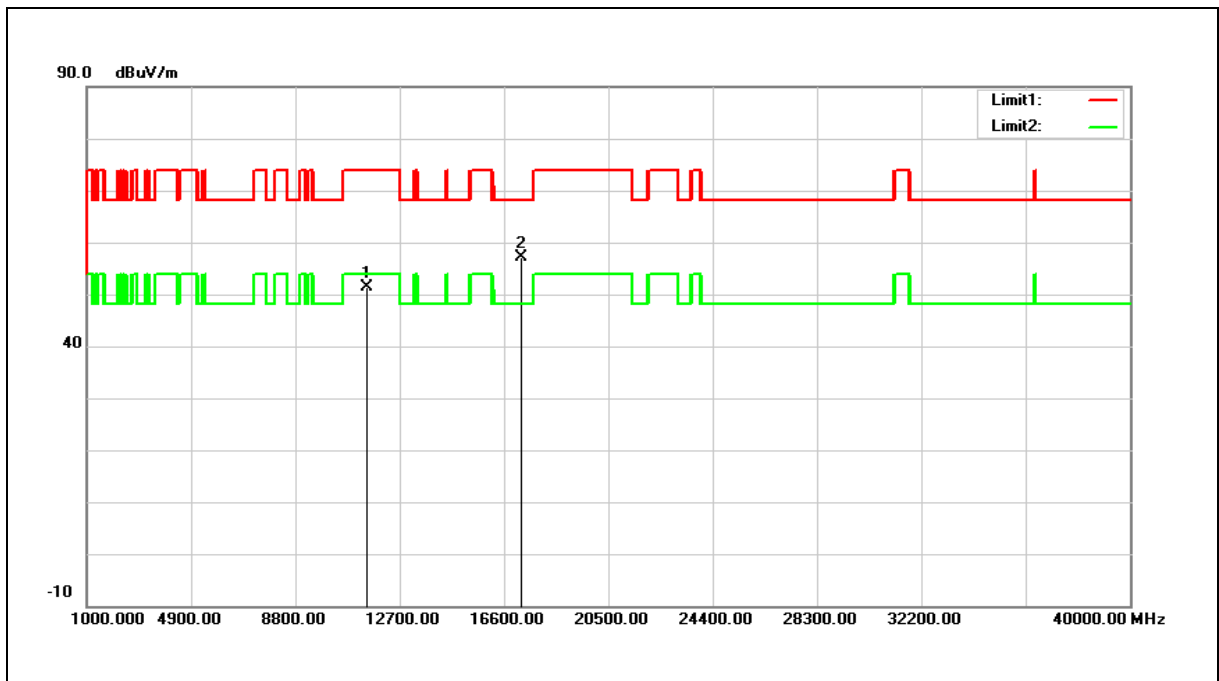
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

Example: 51.33 = 18.46+32.87

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5745 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	32.83	18.46	51.29	74.00	-22.71	peak
2	17235.000	33.01	24.18	57.19	68.20	-11.01	peak

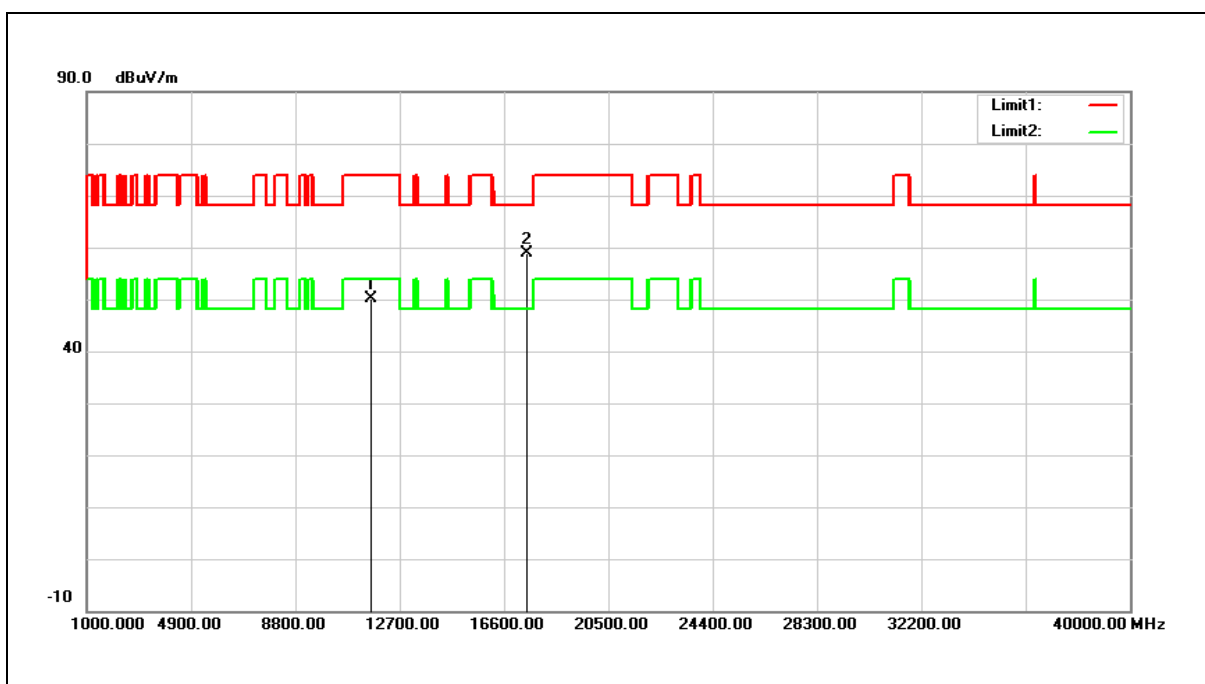
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

Example: 51.29 = 18.46+32.83

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5825 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



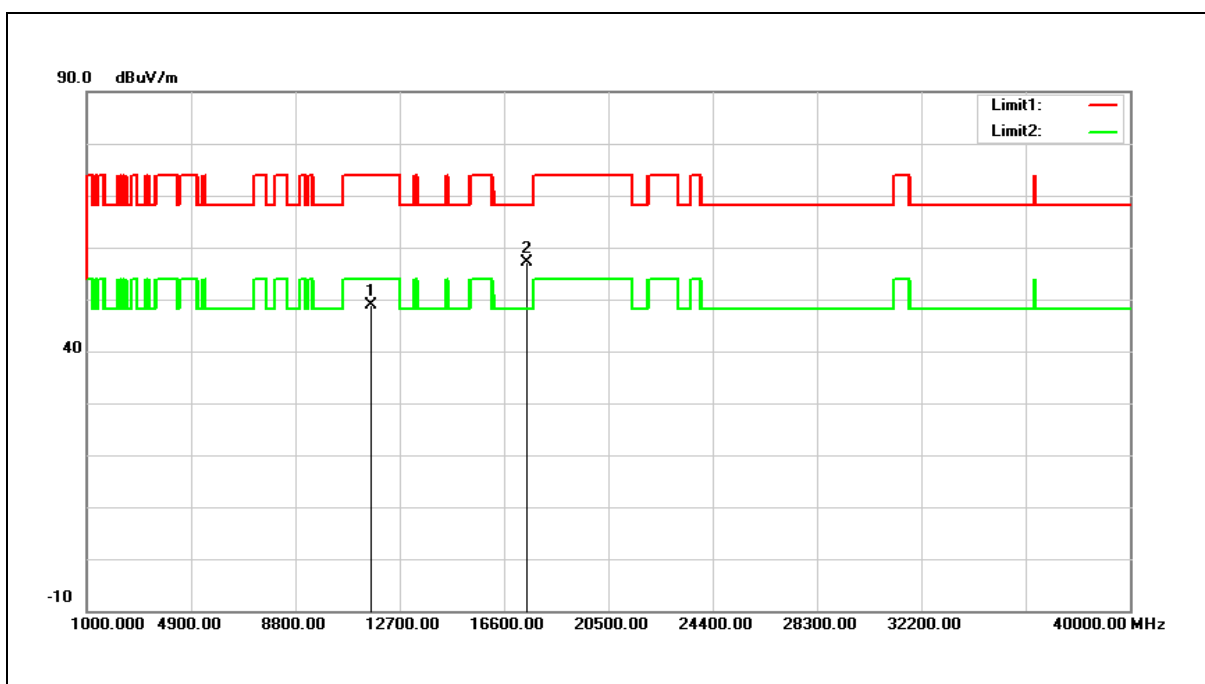
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	31.97	18.28	50.25	74.00	-23.75	peak
2	17475.000	33.79	25.18	58.97	68.20	-9.23	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5825 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	30.52	18.28	48.80	74.00	-25.20	peak
2	17475.000	31.84	25.18	57.02	68.20	-11.18	peak

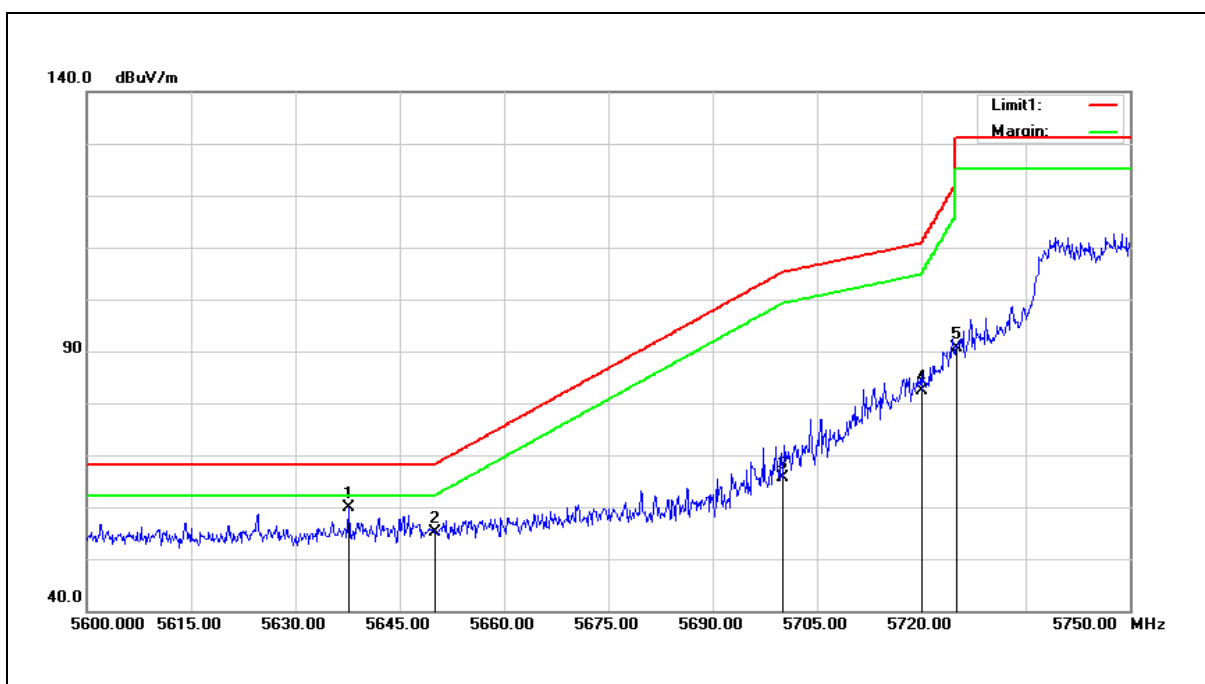
Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Band Edge

Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5745 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



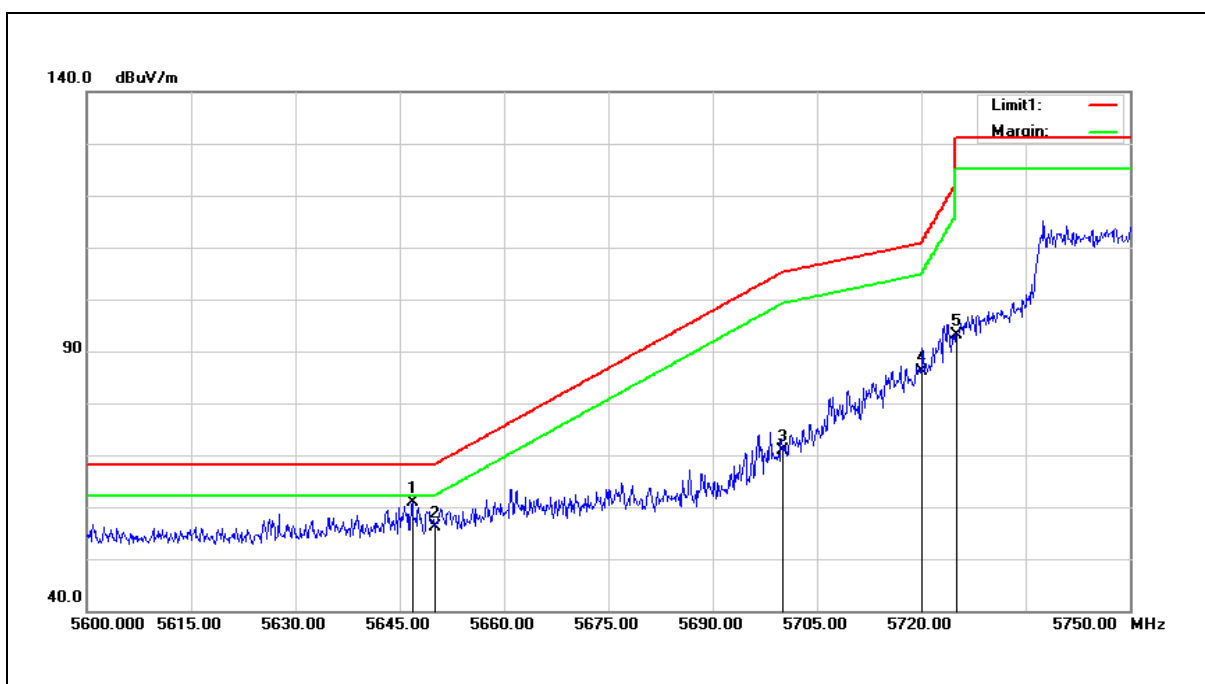
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5637.650	52.62	7.15	59.77	68.20	-8.43	peak
2	5650.000	48.08	7.17	55.25	68.20	-12.95	peak
3	5700.000	58.39	7.27	65.66	105.20	-39.54	peak
4	5720.000	75.16	7.31	82.47	110.80	-28.33	peak
5	5725.000	83.24	7.32	90.56	122.20	-31.64	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5745 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



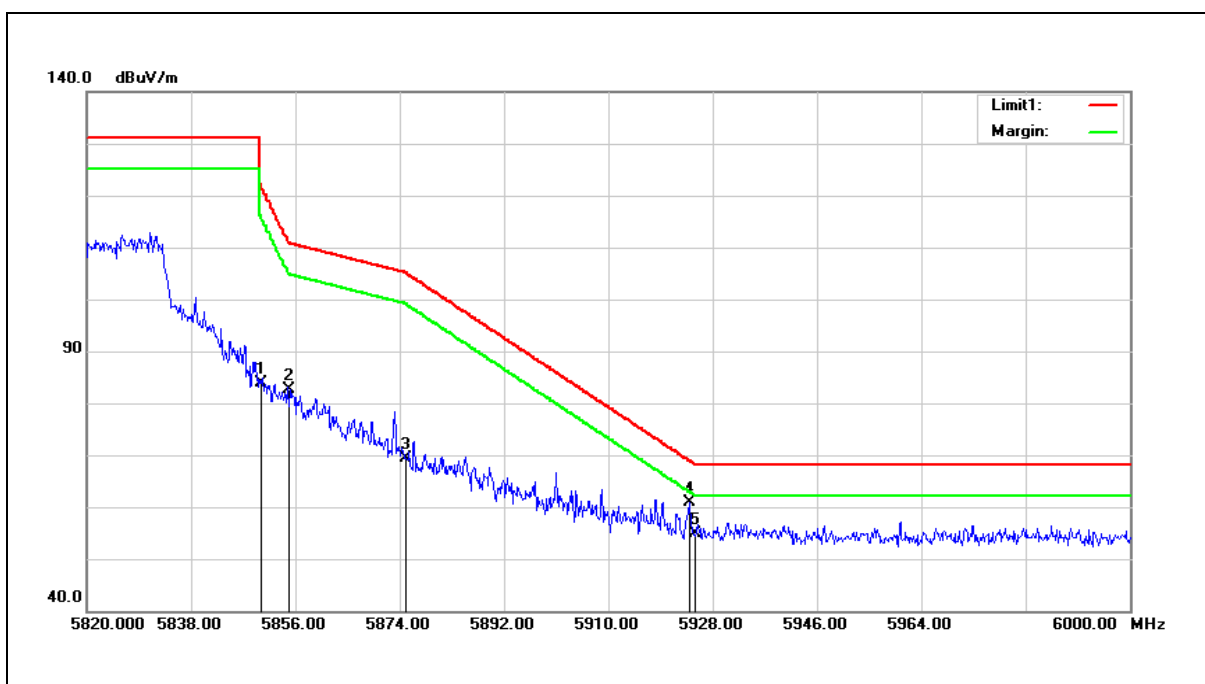
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5646.800	53.63	7.16	60.79	68.20	-7.41	peak
2	5650.000	48.92	7.17	56.09	68.20	-12.11	peak
3	5700.000	63.65	7.27	70.92	105.20	-34.28	peak
4	5720.000	78.71	7.31	86.02	110.80	-24.78	peak
5	5725.000	85.79	7.32	93.11	122.20	-29.09	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5825 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



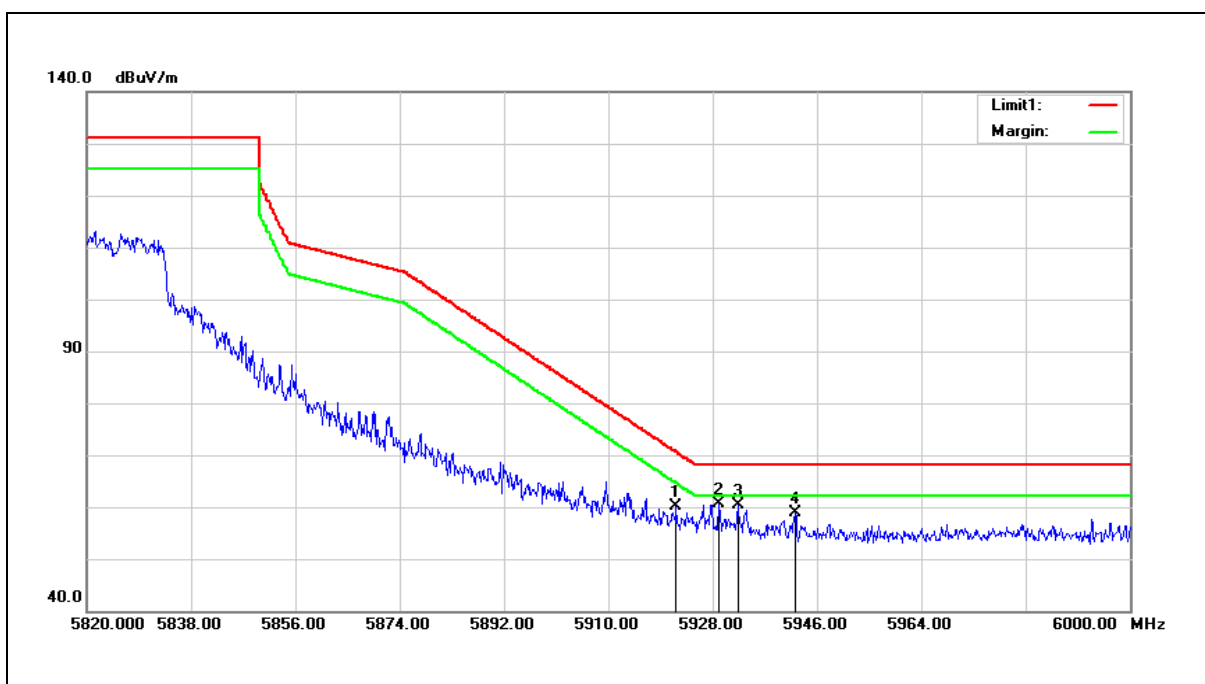
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	76.28	7.59	83.87	122.20	-38.33	peak
2	5855.000	75.06	7.60	82.66	110.80	-28.14	peak
3	5875.000	61.84	7.64	69.48	105.20	-35.72	peak
4	5924.040	53.20	7.75	60.95	68.91	-7.96	peak
5	5925.000	47.14	7.75	54.89	68.20	-13.31	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5825 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5921.700	52.36	7.74	60.10	70.64	-10.54	peak
2	5929.080	52.98	7.76	60.74	68.20	-7.46	peak
3	5932.320	52.53	7.76	60.29	68.20	-7.91	peak
4	5942.220	51.05	7.79	58.84	68.20	-9.36	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

5.3. Maximum Conducted Output Power Measurement

SYSTEM 2 Full

Test Mode		Mode 2: IEEE 802.11a Continuous TX mode				
Frequency (MHz)	Data Rate	ANT-0		ANT-1		FCC Limit (dBm)
		(dBm)	(W)	(dBm)	(W)	
5180	6 M	10.99	0.013	17.38	0.055	≤ 24.00
5200		10.76	0.012	19.22	0.084	
5220		10.97	0.013	19.35	0.086	
5240		11.01	0.013	19.44	0.088	
5260		10.94	0.012	19.87	0.097	
5280		10.92	0.012	19.95	0.099	
5300		10.90	0.012	19.70	0.093	
5320		11.23	0.013	17.19	0.052	
5500		12.72	0.019	18.35	0.068	
5520		12.61	0.018	20.23	0.105	
5540		12.82	0.019	20.34	0.108	
5560		13.00	0.020	20.43	0.110	
5580		12.87	0.019	20.41	0.110	
5600		12.97	0.020	20.11	0.103	
5620		12.64	0.018	20.21	0.105	
5640		12.56	0.018	20.05	0.101	
5660		12.31	0.017	20.30	0.107	
5680		12.65	0.018	20.10	0.102	
5700		12.38	0.017	18.51	0.071	
5745		12.92	0.020	21.26	0.134	≤ 30.00
5765		12.75	0.019	21.22	0.132	
5785		12.81	0.019	21.23	0.133	
5805		12.67	0.018	21.15	0.130	
5825		12.70	0.019	21.26	0.134	

Note: The relevant measured result has the offset with cable loss already.



Test Mode		Mode 3: IEEE 802.11n 5 GHz 20 MHz Continuous TX mode				
Frequency (MHz)	Data Rate	ANT-0		ANT-1		FCC Limit (dBm)
		(dBm)	(W)	(dBm)	(W)	
5180	6.5 M	11.01	0.013	16.97	0.050	≤ 24.00
5200		10.93	0.012	19.53	0.090	
5220		11.03	0.013	19.46	0.088	
5240		10.87	0.012	19.15	0.082	
5260		10.95	0.012	19.18	0.083	
5280		11.08	0.013	19.26	0.084	
5300		10.91	0.012	19.48	0.089	
5320		11.03	0.013	16.93	0.049	
5500		12.69	0.019	15.72	0.037	
5520		12.75	0.019	20.45	0.111	
5540		12.86	0.019	20.40	0.110	
5560		12.65	0.018	20.18	0.104	
5580		12.92	0.020	19.73	0.094	
5600		12.97	0.020	20.11	0.103	
5620		12.44	0.018	20.09	0.102	
5640		12.41	0.017	20.07	0.102	
5660		12.45	0.018	20.18	0.104	
5680		12.64	0.018	19.90	0.098	
5700		12.77	0.019	17.94	0.062	
5720		12.49	0.018	20.69	0.117	≤ 30
5745		12.51	0.018	20.83	0.121	
5765		12.58	0.018	20.71	0.118	
5785		12.72	0.019	20.89	0.123	
5805		12.65	0.018	20.92	0.124	
5825		12.71	0.019	20.94	0.124	

Note: The relevant measured result has the offset with cable loss already.

Test Mode		Mode 4: IEEE 802.11n 5 GHz 40 MHz Continuous TX mode				
Frequency (MHz)	Data Rate	ANT-0		ANT-1		FCC Limit (dBm)
		(dBm)	(W)	(dBm)	(W)	
5190	13.5 M	10.93	0.012	17.40	0.055	≤ 24.00
5230		11.07	0.013	19.00	0.079	
5270		11.02	0.013	17.94	0.062	
5310		10.99	0.013	15.92	0.039	
5510		12.61	0.018	16.72	0.047	
5550		12.75	0.019	20.05	0.101	
5590		12.59	0.018	20.33	0.108	
5630		12.63	0.018	20.35	0.108	
5670		12.68	0.019	18.14	0.065	
5710		12.56	0.018	18.16	0.065	≤ 30.00
5755		12.76	0.019	18.89	0.077	
5795		12.59	0.018	19.30	0.085	

Test Mode		Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode				
Frequency (MHz)	Data Rate	ANT-0		ANT-1		FCC Limit (dBm)
		(dBm)	(W)	(dBm)	(W)	
5210	29.3 M	11.03	0.013	17.35	0.054	≤ 24.00
5290		11.32	0.014	15.99	0.040	
5530		12.42	0.017	18.35	0.068	
5610		12.38	0.017	20.38	0.109	
5690		12.41	0.017	20.39	0.109	
5775		12.38	0.017	18.00	0.063	≤ 30.00

Test Mode		Mode 6: IEEE 802.11ac 160 MHz Continuous TX mode				
Frequency (MHz)	Data Rate	ANT-0		ANT-1		FCC Limit (dBm)
		(dBm)	(W)	(dBm)	(W)	
5250	58.5 M	11.14	0.013	12.71	0.019	≤ 24.00
5570		12.47	0.018	14.61	0.029	

Note: The relevant measured result has the offset with cable loss already.

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Test Mode		Mode 2: IEEE 802.11a Continuous TX mode				
Frequency (MHz)	Data Rate	ANT-0		ANT-1		FCC Limit (dBm)
		(dBm)	(W)	(dBm)	(W)	
5180	6 M	11.30	0.013	10.37	0.011	≤ 24.00
5200		11.00	0.013	10.46	0.011	
5220		11.13	0.013	10.71	0.012	
5240		11.07	0.013	10.50	0.011	
5260		11.21	0.013	10.60	0.011	
5280		11.32	0.014	10.77	0.012	
5300		10.75	0.012	10.38	0.011	
5320		10.91	0.012	10.32	0.011	
5500		12.76	0.019	9.19	0.008	
5520		12.80	0.019	9.21	0.008	
5540		12.55	0.018	9.19	0.008	
5560		12.43	0.017	9.38	0.009	
5580		12.62	0.018	9.12	0.008	
5600		12.68	0.019	9.02	0.008	
5620		12.58	0.018	8.85	0.008	
5640		12.81	0.019	8.89	0.008	
5660		12.42	0.017	8.99	0.008	
5680		12.71	0.019	8.95	0.008	
5700		12.45	0.018	8.66	0.007	
5745		12.38	0.017	8.58	0.007	≤ 30.00
5765		12.17	0.016	8.04	0.006	
5785		12.03	0.016	8.32	0.007	
5805		12.04	0.016	8.01	0.006	
5825		11.88	0.015	7.98	0.006	

Note: The relevant measured result has the offset with cable loss already.



Test Mode		Mode 3: IEEE 802.11n 5 GHz 20 MHz Continuous TX mode				
Frequency (MHz)	Data Rate	ANT-0		ANT-1		FCC Limit (dBm)
		(dBm)	(W)	(dBm)	(W)	
5180	6.5 M	11.00	0.013	10.67	0.012	≤ 24.00
5200		11.17	0.013	10.46	0.011	
5220		11.06	0.013	10.73	0.012	
5240		10.92	0.012	10.60	0.011	
5260		10.78	0.012	10.54	0.011	
5280		11.24	0.013	10.12	0.010	
5300		10.83	0.012	10.58	0.011	
5320		10.96	0.012	10.28	0.011	
5500		12.66	0.018	9.09	0.008	
5520		12.65	0.018	9.36	0.009	
5540		12.90	0.019	9.10	0.008	
5560		12.69	0.019	8.78	0.008	
5580		12.32	0.017	8.76	0.008	
5600		12.58	0.018	9.14	0.008	
5620		12.46	0.018	9.08	0.008	
5640		12.69	0.019	8.85	0.008	
5660		12.67	0.018	9.06	0.008	
5680		12.51	0.018	8.88	0.008	
5700		12.22	0.017	8.77	0.008	
5720		12.04	0.016	7.90	0.006	≤ 30
5745		11.36	0.014	8.36	0.007	
5765		11.70	0.015	7.95	0.006	
5785		11.91	0.016	7.86	0.006	
5805		12.15	0.016	8.12	0.006	
5825		12.01	0.016	7.99	0.006	

Note: The relevant measured result has the offset with cable loss already.



Test Mode		Mode 4: IEEE 802.11n 5 GHz 40 MHz Continuous TX mode				
Frequency (MHz)	Data Rate	ANT-0		ANT-1		FCC Limit (dBm)
		(dBm)	(W)	(dBm)	(W)	
5190	13.5 M	10.95	0.012	10.18	0.010	≤ 24.00
5230		11.08	0.013	10.03	0.010	
5270		11.12	0.013	10.34	0.011	
5310		10.76	0.012	10.41	0.011	
5510		12.52	0.018	9.01	0.008	
5550		12.35	0.017	9.11	0.008	
5590		12.58	0.018	9.37	0.009	
5630		12.33	0.017	9.24	0.008	
5670		12.39	0.017	9.28	0.008	
5710		11.55	0.014	8.00	0.006	≤ 30.00
5755		11.67	0.015	7.94	0.006	
5795		12.07	0.016	8.22	0.007	

Test Mode		Mode 5: IEEE 802.11ac 80 MHz Continuous TX mode				
Frequency (MHz)	Data Rate	ANT-0		ANT-1		FCC Limit (dBm)
		(dBm)	(W)	(dBm)	(W)	
5210	29.3 M	11.00	0.013	10.20	0.010	≤ 24.00
5290		11.32	0.014	10.77	0.012	
5530		12.42	0.017	9.44	0.009	
5610		12.38	0.017	9.46	0.009	
5690		12.41	0.017	9.39	0.009	
5775		12.38	0.017	8.58	0.007	≤ 30.00

Test Mode		Mode 6: IEEE 802.11ac 160 MHz Continuous TX mode				
Frequency (MHz)	Data Rate	ANT-0		ANT-1		FCC Limit (dBm)
		(dBm)	(W)	(dBm)	(W)	
5250	58.5 M	9.69	0.009	9.12	0.008	≤ 24.00
5570		12.46	0.018	7.90	0.006	

Note: The relevant measured result has the offset with cable loss already.