TEST REPORT

Report Number: 16062020HKG-003

Application
for
Original Grant of 47 CFR Part 15 Certification

AC1600 WiFi Router

FCC ID: EW780-0551-00

This report contains the data of WLAN (WiFi) portion only.

Prepared and Checked by:

Signed On File
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Approved by:

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Location: Intertek Testing Services Hong Kong Ltd.

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Assistant Supervisor
November 08, 2016

GENERAL INFORMATION

Applicant Name:	VTech Telecommunications Ltd.
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Manufacturer:	VTech (Dongguan) Telecommunications Limited
Manufacturer Address:	VTech Science Park, Xia Ling Bei Management Zone, Liaobu, Dongguan, Guangdong, China.
FCC Specification Standard:	FCC Part 15, 2014 Edition
FCC ID:	EW780-0551-00
Brand Name:	VTech
Model(s):	VNT846
Type of EUT:	Unlicensed National Information Infrastructure Transmitter
Description of EUT:	AC1600 WiFi Router
Serial Number:	N/A
Sample Receipt Date:	June 20, 2016
Date of Test:	Aug 29, 2016 to Sep 12, 2016
Report Date:	November 08, 2016
Environmental Conditions:	Temperature: +10 to 40°C Humidity: 10 to 90%

Table of Contents

EXHIBIT 1
TEST RESULTS SUMMARY & STATEMENT OF COMPLIANCE

1.0 Test Results Summary & Statement of Compliance

1.1 Summary of Test Results

Test Items	FCC Part 15 Section	Results	Details see section
Antenna Requirement	15.407(A1ii,3)	Pass	2.1
Max. Conducted Output Power (peak)	15.407(A1ii,3)	Pass	4.1
Min. 6dB RF Bandwidth	15.407(e)	Pass	4.2
Max. Power Density (average)	15.407(A1ii,3)	Pass	4.3
Out of Band Antenna Conducted Emission	15.407(b)	Pass	4.4
Radiated Emission in Restricted Bands and Spurious Emissions	15.407(b), 15.209 & 15.109	Pass	4.6
AC Power Line Conducted Emission	15.207 & 15.107	Pass	4.7

Note: Pursuant to FCC Part 15 Section 15.215(c), the 20dB bandwidth of the emission was contained within the frequency band designated (mentioned as above) which the EUT operated. The effects, if any, from frequency sweeping, frequency hopping, other modulation techniques and frequency stability over expected variations in temperature and supply voltage were considered.

1.2 Statement of Compliance

The equipment under test is found to be complying with the following standard:

FCC Part 15, 2014 Edition

EXHIBIT 2
GENERAL DESCRIPTION

2.0 General Description

2.1 Product Description

The Equipment Under Test (EUT) is a AC1600 WiFi Router.

For 2.400-2.4835GHz:
The Equipment Under Test (EUT) operates at frequency range of 2412MHz to 2462MHz with 11 channels.
For 802.11b mode, it operates at frequency range of 2412.000MHz to 2462.000MHz with 11 channels. It transmits via Direct-sequence spread spectrum (DSSS) modulation. Maximum bit rate can be up to 11Mbps.
For 802.11g mode, it operates at frequency range of 2412.000MHz to 2462.000MHz with 11 channels. It transmits via Orthogonal Frequency Division Multiplexing (OFDM) modulation. Maximum bit rate can be up to 54Mbps.
For 802.11n (with 20MHz bandwidth) mode, it operates at frequency range of 2412.000MHz to 2462.000MHz with 11 channels. It transmits via Orthogonal Frequency Division Multiplexing (OFDM) modulation. Maximum bit rate can support up to 65Mbps.
For 802.11n (with 40MHz bandwidth) mode, it operates at frequency range of 2422.000MHz to 2452.000MHz with 7 channels. It transmits via Orthogonal Frequency Division Multiplexing (OFDM) modulation. Maximum bit rate can support up to 65Mbps.

For 5.15-5.25GHz:
The Equipment Under Test (EUT) operates at frequency range of 5180MHz to 5240MHz with 4 channels.
For 802.11a mode, it operates at frequency range of 5180.00MHz to 5250.000MHz with 4 channels. It transmits via Orthogonal Frequency Division Multiplexing (OFDM) modulation. Maximum bit rate can be up to 54Mbps.
For 802.11n (with 20MHz bandwidth) mode, it operates at frequency range of 5180.00MHz to 5250.000MHz with 4 channels. It transmits via Orthogonal Frequency Division Multiplexing (OFDM) modulation. Maximum bit rate can support up to 216.6Mbps.
For 802.11n (with 40MHz bandwidth) mode, it operates at frequency range of 5190.00MHz to 5230.000MHz with 2 channels. It transmits via Orthogonal Frequency Division Multiplexing (OFDM) modulation. Maximum bit rate can support up to 450Mbps.
For 802.11ac (with 20MHz bandwidth) mode, it operates at frequency range of 5180.00MHz to 5250.000MHz with 4 channels. It transmits via Orthogonal Frequency Division Multiplexing (OFDM) modulation. Maximum bit rate can support up to 260Mbps.
For 802.11ac (with 40MHz bandwidth) mode, it operates at frequency range of 5190.00MHz to 5230.000MHz with 2 channels. It transmits via Orthogonal Frequency Division Multiplexing (OFDM) modulation. Maximum bit rate can support up to 600Mbps.
For 802.11ac (with 80MHz bandwidth) mode, it operates at frequency 5210MHz. It transmits via Orthogonal Frequency Division Multiplexing (OFDM) modulation. Maximum bit rate can support up to 1300Mbps.

2.1 Product Description (Cont'd)

For 5.725-5.850GHz:
The Equipment Under Test (EUT) operates at frequency range of 5745MHz to 5825MHz with 5 channels.
For 802.11a mode, it operates at frequency range of 5745.00MHz to 5825.000MHz with 5 channels. It transmits via Orthogonal Frequency Division Multiplexing (OFDM) modulation. Maximum bit rate can be up to 54Mbps.
For 802.11n (with 20MHz bandwidth) mode, it operates at frequency range of 5745.00MHz to 5825.000MHz with 5 channels. It transmits via Orthogonal Frequency Division Multiplexing (OFDM) modulation. Maximum bit rate can support up to 216.6Mbps.
For 802.11n (with 40MHz bandwidth) mode, it operates at frequency range of 5755.00MHz to 5795.000MHz with 2 channels. It transmits via Orthogonal Frequency Division Multiplexing (OFDM) modulation. Maximum bit rate can support up to 450Mbps.
For 802.11ac (with 20MHz bandwidth) mode, it operates at frequency range of 5180.00MHz to 5250.000MHz with 4 channels. It transmits via Orthogonal Frequency Division Multiplexing (OFDM) modulation. Maximum bit rate can support up to 260Mbps.
For 802.11ac (with 40MHz bandwidth) mode, it operates at frequency range of 5755.00MHz to 5795.000MHz with 2 channels. It transmits via Orthogonal Frequency Division Multiplexing (OFDM) modulation. Maximum bit rate can support up to 600Mbps.
For 802.11ac (with 80MHz bandwidth) mode, it operates at frequency 5775MHz. It transmits via Orthogonal Frequency Division Multiplexing (OFDM) modulation. Maximum bit rate can support up to 1300Mbps.

It operates at frequency range of The EUT is power by a 100-240VAC to 12VDC 0.8A adaptor.

The antenna(s) used in the EUT is internal, integral.

The circuit description is saved with filename: descri.pdf.

2.2 Test Methodology

Both AC power line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.4 (2014). Preliminary radiated scans and all radiated measurements were performed in radiated emission test sites. All Radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the "**Justification Section**" of this Application. Antenna port conducted measurements were performed according to ANSI C63.10 (2013), No. 789033D02 v01r02(08-April-2016) and 662911 D01 Multiple Transmitter Output v02r01 (31-October-2013). All other measurements were made in accordance with the procedures in 47 CFR Part 2.

2.3 Test Facility

The radiated emission test site and antenna port conducted measurement facility used to collect the radiated data and conductive data are at Workshop No. 3, G/F., World-Wide Industrial Centre, 43-47 Shan Mei Street, Fo Tan, Sha Tin, N.T., Hong Kong. This test facility and site measurement data have been fully placed on file with the FCC.

2.4 Related Submittal(s) Grants

This is a single application for certification of a transceiver (WiFi portion only).

EXHIBIT 3
SYSTEM TEST CONFIGURATION

3.0 System Test Configuration

3.1 Justification

For radiated emissions testing, the equipment under test (EUT) was setup to transmit / receive continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, all cables (if any) were manipulated to produce worst case emissions.

The EUT was powered by 12.0VDC.

For the measurements, the EUT was attached to a plastic stand if necessary and placed on the wooden turntable which is four feet in diameter and approximately 0.8m in height above the ground plane for emission measurement at or below 1GHz and 1.5m in height above the ground plane for emission measurement above 1GHz. If the base unit attached to peripherals, they were connected and operational (as typical as possible).

The signal was maximized through rotation and placement in the three orthogonal axes. The antenna height and polarization were varied during the search for maximum signal level. The antenna height was varied from 1 to 4 meters. Radiated emissions were taken at three meters unless the signal level was too low for measurement at that distance. If necessary, a pre-amplifier was used and/or the test was conducted at a closer distance.

For any intentional radiator powered by AC power line, measurements of the radiated signal level of the fundamental frequency component of the emission was performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage.

Radiated emission measurement for transmitter were performed from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

3.1 Justification – Cont'd

Emission that are directly caused by digital circuits in the transmit path and transmitter portion were measured, and the limit are according to FCC Part 15 Section 15.209. Digital circuitries used to control additional functions other than the operation of the transmitter are subject to FCC Part 15 Section 15.109.

Detector function for radiated emissions was in peak mode. Average readings, when required, were taken by measuring the duty cycle of the equipment under test and subtracting the corresponding amount in dB from the measured peak readings. A detailed description for the calculation of the average factor can be found in section 4.2.3.
Determination of pulse desensitization was made according to *Hewlett Packard Application Note 150-2, Spectrum Analysis... Pulsed RF*. The effective period (Teff) was referred to Exhibit 4.6.3. With the resolution bandwidth 1MHz and spectrum analyzer IF bandwidth 3dB, the pulse desensitization factor was 0dB.

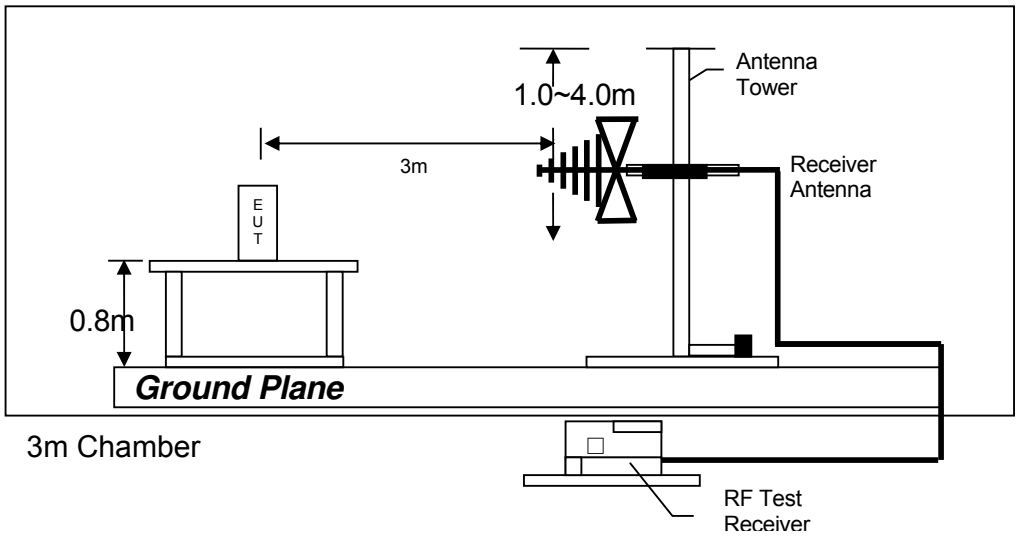
The EUT along with its peripherals were placed on a 1.0m(W)x1.5m(L) and 0.8m in height wooden table and the EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane. The EUT power cord connected to one LISN (Line impedance stabilization network), which provided 50ohm coupling impedance for measuring instrument. Meanwhile, the peripheral or support equipment power cords connected to a separate LISN. The ac powers for all LISNs were obtained from the same power source. The LISN housing, measuring instrument case, reference ground plane, and vertical ground plane were bounded together. The excess power cable between the EUT and the LISN was bundled. Power cords of non-EUT equipment (peripherals) were not bundled. AC power cords of peripheral equipments draped over the rear edge of the table, and routed them down onto the floor of the ac power line conducted emission test site to the second LISN.

All connecting cables of EUT and peripherals were manipulated to find the maximum emission.

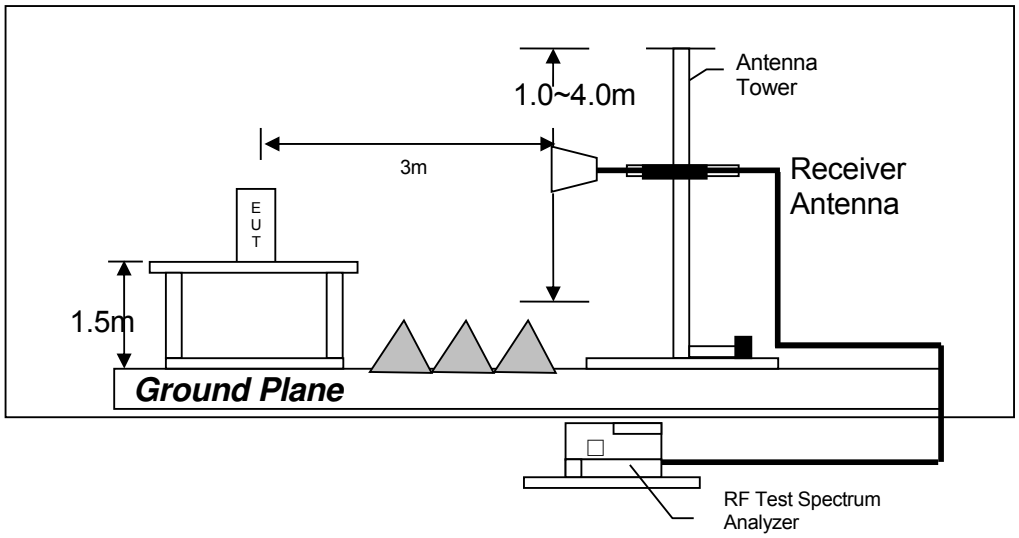
All configuration mode (with and without PC connectivity during charging test) and setting of data rate for 802.11 a/n(HT20/HT40)/ac(HT20/40/80) of WiFi mode had been considered, and worst case test data are shown on this test report.

3.2 Radiated Emission Test Setup

The figure below shows the test setup, which is utilized to make these measurements.

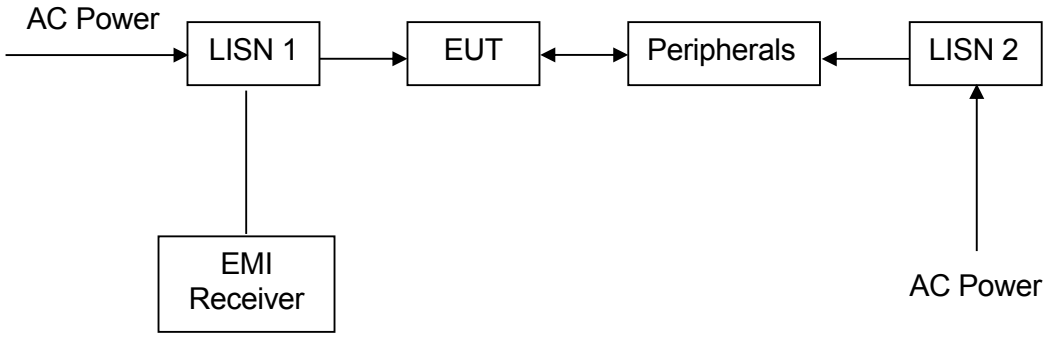


Test setup of radiated emissions up to 1GHz



Test setup of radiated emissions above 1GHz

3.3 AC Line Conducted Emission Test Setup



3.4 EUT Exercising Software

The EUT exercise program (if any) used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use.

Details of EUT:

An AC adaptor (provided with the unit) was used to power the device. Their description are listed below.

(1) An AC adaptor (100-240VAC to 12VDC 0.8A, Model: CS24F120200FUF) (Supplied by Client)

Description of Accessories:

(1) 5 X LAN cable of 1m in length (Supplied by Intertek)
(2) Notebook (HP Probook 430) (Provided by Intertek)
(3) 1 X 4GB USB flash drive (Provided by Intertek)

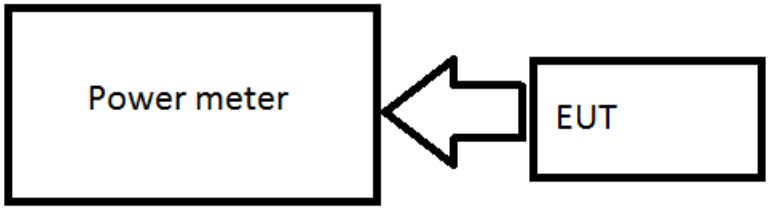
3.5 Measurement Uncertainty

When determining of the test conclusion, the Measurement Uncertainty of test at a level of confidence of 95% has been considered. The values of the Measurement uncertainty for radiated emission test and RF conducted measurement test are ± 5.3dB and ±0.99dB respectively. The value of the Measurement uncertainty for conducted emission test is ±4.2dB.

Uncertainty and Compliance - Unless the standard specifically states that measured values are to be extended by the measurement uncertainty in determining compliance, all compliance determinations are based on the actual measured value.

EXHIBIT 4
TEST RESULTS

4.0 **Test Results**



4.1 Measurement using a Power Meter(PM)

The antenna port of the EUT was connected to the input of a power meter.

(i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied.

- The EUT is configured to transmit continuously or to transmit with a constant duty cycle.
  789033 D02 General UNII Test Procedures New Rules v01r02 Page 9
- At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.
- The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.

(ii) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in section II.B.

(iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.

(iv) Adjust the measurement in dBm by adding 10 log (1/x) where x is the duty cycle (e.g., 10 log (1/0.25) if the duty cycle is 25%).

UNII-1: 5150MHz-5250MHz
IEEE 802.11A (OFDM, 6Mbps)

Frequency (MHz)	ANT0		ANT1		ANT2		SUM ANT0+ANT1+ANT2 (mW)	SUM ANT0+ANT1+ANT2 (dBm)
	dBm	mW	dBm	mW	dBm	mW		
5180.0	19.1	81.3	18.1	64.6	18.2	66.1	211.9	23.3
5200.0	19.0	79.4	17.9	61.7	17.6	57.5	198.6	23.0
5240.0	18.7	74.1	17.9	61.7	17.2	52.5	188.3	22.7

IEEE 802.11N (OFDM, HT20, MCS0)

Frequency (MHz)	ANT0		ANT1		ANT2		SUM ANT0+ANT1+ANT2 (mW)	SUM ANT0+ANT1+ANT2 (dBm)
	dBm	mW	dBm	mW	dBm	mW		
5180.0	15.7	37.2	15.2	33.1	14.5	28.2	98.5	19.9
5200.0	15.6	36.3	15.1	32.4	14.8	30.2	98.9	20.0
5240.0	15.7	37.2	15.0	31.6	14.0	25.1	93.9	19.7

IEEE 802.11N (OFDM, HT40, MCS0)

Frequency (MHz)	ANT0		ANT1		ANT2		SUM ANT0+ANT1+ANT2 (mW)	SUM ANT0+ANT1+ANT2 (dBm)
	dBm	mW	dBm	mW	dBm	mW		
5190.0	15.1	32.4	14.4	27.5	14.3	26.9	86.8	19.4
5230.0	15.2	33.1	14.6	28.8	13.9	24.5	86.5	19.4

IEEE 802.11AC (OFDM, HT20, MCS0)

Frequency (MHz)	ANT0		ANT1		ANT2		SUM ANT0+ANT1+ANT2 (mW)	SUM ANT0+ANT1+ANT2 (dBm)
	dBm	mW	dBm	mW	dBm	mW		
5180.0	15.7	37.2	15.1	32.4	14.9	30.9	100.4	20.0
5200.0	15.7	37.2	15.1	32.4	14.8	30.2	99.7	20.0
5240.0	15.6	36.3	14.4	27.5	14.7	29.5	93.4	19.7

IEEE 802.11AC (OFDM, HT40, MCS0)

Frequency (MHz)	ANT0		ANT1		ANT2		SUM ANT0+ANT1+ANT2 (mW)	SUM ANT0+ANT1+ANT2 (dBm)
	dBm	mW	dBm	mW	dBm	mW		
5190.0	15.1	32.4	14.6	28.8	12.1	16.3	77.5	18.9
5230.0	15.1	32.4	14.9	30.9	11.8	15.1	78.4	18.9

IEEE 802.11AC (OFDM, HT80, MCS0)

Frequency (MHz)	ANT0		ANT1		ANT2		SUM ANT0+ANT1+ANT2 (mW)	SUM ANT0+ANT1+ANT2 (dBm)
	dBm	mW	dBm	mW	dBm	mW		
5190.0	14.9	30.9	15.4	34.5	14.9	30.9	96.4	19.8

UNII-3: 5725MHz-5850MHz
IEEE 802.11A (OFDM, 6Mbps)

Frequency (MHz)	ANT0		ANT1		ANT2		SUM ANT0+ANT1+ANT2 (mW)	SUM ANT0+ANT1+ANT2 (dBm)
	dBm	mW	dBm	mW	dBm	mW		
5745.0	17.2	52.5	16.7	46.8	14.1	25.7	125.0	21.0
5785.0	17.3	53.7	16.6	45.7	15.6	36.3	135.7	21.3
5825.0	17.5	56.2	17.0	50.1	16.2	41.7	148.0	21.7

IEEE 802.11N (OFDM, HT20, MCS0)

Frequency (MHz)	ANT0		ANT1		ANT2		SUM ANT0+ANT1+ANT2 (mW)	SUM ANT0+ANT1+ANT2 (dBm)
	dBm	mW	dBm	mW	dBm	mW		
5745.0	14.9	30.9	13.7	23.4	13.1	20.4	74.8	18.7
5785.0	14.9	30.9	14.0	25.1	12.8	19.1	75.1	18.8
5825.0	15.1	32.4	14.1	25.7	12.8	19.1	77.1	18.9

IEEE 802.11N (OFDM, HT40, MCS0)

Frequency (MHz)	ANT0		ANT1		ANT2		SUM ANT0+ANT1+ANT2 (mW)	SUM ANT0+ANT1+ANT2 (dBm)
	dBm	mW	dBm	mW	dBm	mW		
5755.0	14.6	28.8	12.2	16.6	13.0	19.8	65.2	18.1
5795.0	14.7	29.5	13.5	22.2	12.8	19.0	70.7	18.5

IEEE 802.11AC (OFDM, HT20, MCS0)

Frequency (MHz)	ANT0		ANT1		ANT2		SUM ANT0+ANT1+ANT2 (mW)	SUM ANT0+ANT1+ANT2 (dBm)
	dBm	mW	dBm	mW	dBm	mW		
5745.0	14.9	30.9	13.5	22.2	12.9	19.5	72.6	18.6
5785.0	15.0	31.6	13.2	21.0	13.0	20.0	72.6	18.6
5825.0	15.1	32.4	13.9	24.5	12.6	18.2	75.1	18.8

IEEE 802.11AC (OFDM, HT40, MCS0)

Frequency (MHz)	ANT0		ANT1		ANT2		SUM ANT0+ANT1+ANT2 (mW)	SUM ANT0+ANT1+ANT2 (dBm)
	dBm	mW	dBm	mW	dBm	mW		
5755.0	14.5	28.2	11.9	15.5	11.1	12.8	56.5	17.5
5795.0	14.7	29.5	13.8	24.0	12.5	18.0	71.5	18.5

IEEE 802.11AC (OFDM, HT80, MCS0)

Frequency (MHz)	ANT0		ANT1		ANT2		SUM ANT0+ANT1+ANT2 (mW)	SUM ANT0+ANT1+ANT2 (dBm)
	dBm	mW	dBm	mW	dBm	mW		
5775.0	14.2	26.3	14.5	28.2	13.3	21.4	75.9	18.8

4.1 Maximum Conducted Output Power at Antenna Terminals – Cont'd

Cable loss : 2.1 dB External Attenuation : 0 dB

UNII-1 :
IEEE 802.11A (OFDM, 6Mbps)
max. conducted (average) output level = 23.3 dBm

IEEE 802.11N (OFDM, HT20, MCS0)
max. conducted (average) output level = 20.0 dBm

IEEE 802.11N (OFDM, HT40, MCS0)
max. conducted (average) output level = 19.4 dBm

IEEE 802.11AC (OFDM, HT20, MCS0)
max. conducted (average) output level = 20.0 dBm

IEEE 802.11AC (OFDM, HT40, MCS0)
max. conducted (average) output level = 18.9 dBm

IEEE 802.11AC (OFDM, HT80, MCS0)
max. conducted (average) output level = 19.8 dBm

UNII-3 :
IEEE 802.11A (OFDM, 6Mbps)
max. conducted (average) output level = 21.7 dBm

IEEE 802.11N (OFDM, HT20, MCS0)
max. conducted (average) output level = 18.9 dBm

IEEE 802.11N (OFDM, HT40, MCS0)
max. conducted (average) output level = 18.5 dBm

IEEE 802.11AC (OFDM, HT20, MCS0)
max. conducted (average) output level = 18.8 dBm

IEEE 802.11AC (OFDM, HT40, MCS0)
max. conducted (average) output level = 18.5 dBm

IEEE 802.11AC (OFDM, HT80, MCS0)
max. conducted (average) output level = 18.8 dBm

4.1 Maximum Conducted Output Power at Antenna Terminals – Cont'd

Cable loss, external attenuation: ☒ included in OFFSET function
☐ added to SA raw reading

The transmit signals are correlated with each other,
Directional gain =G_{ant}+10log(N_{ant})dBi=6.77dBi

Limits:
☐ 1W (30dBm) for antennas with gains of 6dBi or less.(Master device)

☒ 0.8W (29.23dBm) for antennas with gains more than 6dBi (Master device).

4.2 Minimum 6dB RF Bandwidth

The antenna port of the EUT was connected to the input of a spectrum analyzer. The EBW measurement procedure was used. A PEAK output reading was taken, a DISPLAY line was drawn 6dB lower than PEAK level. The 6dB bandwidth was determined from where the channel output spectrum intersected the display line.

IEEE802.11N (OFDM, HT20, MCS0)			
Frequency (MHz)	ANT0 6dB Bandwidth (MHz)	ANT1 6dB Bandwidth (MHz)	ANT2 6dB Bandwidth (MHz)
5745	17.8	17.8	17.8
5785	17.6	17.8	17.8
5825	17.6	17.8	17.8

IEEE802.11N (OFDM, HT40, MCS0)			
Frequency (MHz)	ANT0 6dB Bandwidth (MHz)	ANT1 6dB Bandwidth (MHz)	ANT2 6dB Bandwidth (MHz)
5755	36.5	36.5	36.2
5795	36.5	36.5	36.5

IEEE802.11AC (OFDM, HT20, MCS0)			
Frequency (MHz)	ANT0 6dB Bandwidth (MHz)	ANT1 6dB Bandwidth (MHz)	ANT2 6dB Bandwidth (MHz)
5745	17.8	17.8	17.8
5785	17.8	17.8	17.8
5825	17.7	17.8	17.8

IEEE802.11AC (OFDM, HT40, MCS0)			
Frequency (MHz)	ANT0 6dB Bandwidth (MHz)	ANT1 6dB Bandwidth (MHz)	ANT2 6dB Bandwidth (MHz)
5755	36.5	36.5	36.4
5795	36.5	36.5	36.2

IEEE802.11AC (OFDM, HT80, MCS0)			
Frequency (MHz)	ANT0 6dB Bandwidth (MHz)	ANT1 6dB Bandwidth (MHz)	ANT2 6dB Bandwidth (MHz)
5775	76.3	76.5	73.3

Limits:
6 dB bandwidth shall be at least 500kHz

The plots of 6dB RF bandwidth and occupied bandwidth are saved with filename :UNII-3.pdf

4.3 Maximum Power Spectral Density

Antenna output of the EUT was coupled directly to spectrum analyzer. The measurement procedure method SA-1 was used. If an external attenuator and/or cable was used, these losses are compensated for using the OFFSET function of the analyser.

U-NII-1:
IEEE 802.11A (OFDM, 6Mbps)

Frequency (MHz)	ANT0		ANT1		ANT2		SUM ANT0+ANT1+ANT2 (mW)	SUM ANT0+ANT1+ANT2 (dBm)
	dBm	mW	dBm	mW	dBm	mW		
5180.0	7.3	5.4	6.6	4.6	6.0	4.0	13.9	11.4
5200.0	7.0	5.0	6.5	4.5	5.8	3.8	13.3	11.2
5240.0	6.9	4.9	6.5	4.5	5.8	3.8	13.2	11.2

IEEE 802.11N (OFDM,HT20, MCS0)

Frequency (MHz)	ANT0		ANT1		ANT2		SUM ANT0+ANT1+ANT2 (mW)	SUM ANT0+ANT1+ANT2 (dBm)
	dBm	mW	dBm	mW	dBm	mW		
5180.0	3.5	2.2	3.0	2.0	2.5	1.8	6.0	7.8
5200.0	3.3	2.1	2.8	1.9	2.4	1.7	5.8	7.6
5240.0	3.6	2.3	3.0	2.0	1.9	1.5	5.8	7.7

IEEE 802.11N (OFDM,HT40, MCS0)

Frequency (MHz)	ANT0		ANT1		ANT2		SUM ANT0+ANT1+ANT2 (mW)	SUM ANT0+ANT1+ANT2 (dBm)
	dBm	mW	dBm	mW	dBm	mW		
5190.0	-0.2	1.0	-1.6	0.7	-1.9	0.6	2.3	3.6
5230.0	-0.2	1.0	-1.1	0.8	-2.0	0.6	2.4	3.7

IEEE 802.11AC (OFDM,HT20, MCS0)

Frequency (MHz)	ANT0		ANT1		ANT2		SUM ANT0+ANT1+ANT2 (mW)	SUM ANT0+ANT1+ANT2 (dBm)
	dBm	mW	dBm	mW	dBm	mW		
5180.0	3.2	2.1	2.8	1.9	2.0	1.6	5.6	7.5
5200.0	3.4	2.2	2.6	1.8	2.3	1.7	5.7	7.6
5240.0	3.5	2.2	2.9	2.0	1.6	1.5	5.7	7.5

IEEE 802.11AC (OFDM,HT40, MCS0)

Frequency (MHz)	ANT0		ANT1		ANT2		SUM ANT0+ANT1+ANT2 (mW)	SUM ANT0+ANT1+ANT2 (dBm)
	dBm	mW	dBm	mW	dBm	mW		
5190.0	-0.2	1.0	-1.7	0.7	-3.2	0.5	2.1	3.3
5230.0	-0.5	0.9	-1.4	0.7	-2.8	0.5	2.1	3.3

IEEE 802.11AC (OFDM,HT80, MCS0)

Frequency (MHz)	ANT0		ANT1		ANT2		SUM ANT0+ANT1+ANT2 (mW)	SUM ANT0+ANT1+ANT2 (dBm)
	dBm	mW	dBm	mW	dBm	mW		
5190.0	-3.2	0.5	-2.4	0.6	-2.5	0.6	1.6	2.1

Cable Loss: 2.1dBi

U-NII-3

IEEE 802.11A (OFDM, 6Mbps)

Frequency (MHz)	ANT0		ANT1		ANT2		SUM ANT0+ANT1+ANT2 (mW)	SUM ANT0+ANT1+ANT2 (dBm)
	dBm	mW	dBm	mW	dBm	mW		
5745.0	4.9	3.1	4.9	3.1	3.8	2.4	8.6	9.3
5785.0	4.8	3.0	4.2	2.7	3.5	2.2	7.9	9.0
5825.0	5.0	3.2	4.2	2.7	3.7	2.3	8.2	9.1

IEEE 802.11N (OFDM,HT20, MCS0)

Frequency (MHz)	ANT0		ANT1		ANT2		SUM ANT0+ANT1+ANT2 (mW)	SUM ANT0+ANT1+ANT2 (dBm)
	dBm	mW	dBm	mW	dBm	mW		
5745.0	1.8	1.5	0.9	1.2	0.4	1.1	3.8	5.8
5785.0	1.8	1.5	0.6	1.1	0.2	1.0	3.7	5.7
5825.0	2.0	1.6	1.3	1.4	0.3	1.1	4.0	6.0

IEEE 802.11N (OFDM,HT40, MCS0)

Frequency (MHz)	ANT0		ANT1		ANT2		SUM ANT0+ANT1+ANT2 (mW)	SUM ANT0+ANT1+ANT2 (dBm)
	dBm	mW	dBm	mW	dBm	mW		
5755.0	-0.8	0.8	-2.7	0.5	-2.6	0.6	1.9	2.8
5795.0	-0.8	0.8	-2.7	0.5	-2.7	0.5	1.9	2.8

IEEE 802.11AC (OFDM,HT20, MCS0)

Frequency (MHz)	ANT0		ANT1		ANT2		SUM ANT0+ANT1+ANT2 (mW)	SUM ANT0+ANT1+ANT2 (dBm)
	dBm	mW	dBm	mW	dBm	mW		
5745.0	1.8	1.5	1.1	1.3	0.5	1.1	3.9	5.9
5785.0	1.2	1.3	0.7	1.2	0.3	1.1	3.6	5.5
5825.0	1.7	1.5	1.4	1.4	0.4	1.1	4.0	6.0

IEEE 802.11AC (OFDM,HT40, MCS0)

Frequency (MHz)	ANT0		ANT1		ANT2		SUM ANT0+ANT1+ANT2 (mW)	SUM ANT0+ANT1+ANT2 (dBm)
	dBm	mW	dBm	mW	dBm	mW		
5755.0	-0.9	0.8	-2.2	0.6	-2.7	0.5	2.0	2.9
5795.0	-0.9	0.8	-2.4	0.6	-2.7	0.5	1.9	2.8

IEEE 802.11AC (OFDM,HT80, MCS0)

Frequency (MHz)	ANT0		ANT1		ANT2		SUM ANT0+ANT1+ANT2 (mW)	SUM ANT0+ANT1+ANT2 (dBm)
	dBm	mW	dBm	mW	dBm	mW		
5775.0	-4.0	0.4	-3.6	0.4	-3.8	0.4	1.2	1.0

Limit:
For U-NII-1:
☒ 16.23/MHz for antennas with gains more than 6dBi (Master device).

For U-NII-3:
☒ 29.23/MHz for antennas with gains more than 6dBi (Master device).

The test data are saved with filename: UNII-1.pdf and UNII-3.pdf.

4.4 Out of Band Conducted Emissions

The measurement procedures under sections 2G of 789033 D02 General UNII Test Procedures New Rules v01r02 were used.

Furthermore, Integration Method for measuring bandedge emissions was incorporated in the test of the edge at MHz.

Limits:
For UNII-1:
All spurious emission should be less then -27dBm/MHz for master device.
For UNII-3:
All spurious in 5175-5725MHz and 5850-5860MHz should be less then -17dBm/MHz
All spurious other then 5175-5725MHz and 5850-5860MHz should be less then -27dBm/MHz

The test data is saved with filename: UNII-1.pdf and UNII-3.pdf.

4.5 Field Strength Calculation

The field strength is calculated by adding the reading on the Spectrum Analyzer to the factors associated with preamplifiers (if any), antennas, cables, pulse desensitization and average factors (when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below.

FS = RA + AF + CF - AG + PD + AV

Where FS = Field Strength in dBμV/m
RA = Receiver Amplitude (including preamplifier) in dBμV
CF = Cable Attenuation Factor in dB
AF = Antenna Factor in dB
AG = Amplifier Gain in dB
PD = Pulse Desensitization in dB
AV = Average Factor in -dB

In the radiated emission table which follows, the reading shown on the data table may reflect the preamplifier gain. An example of the calculations, where the reading does not reflect the preamplifier gain, follows:

FS = RA + AF + CF - AG + PD + AV

Example
Assume a receiver reading of 62.0 dBμV is obtained. The 0antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29.0 dB is subtracted. The pulse desensitization factor of the spectrum analyzer is 0.0 dB, and the resultant average factor is -10.0 dB. The net field strength for comparison to the appropriate emission limit is 32.0 dBμV/m. This value in dBμV/m is converted to its corresponding level in μV/m.

RA = 62.0 dBμV
AF = 7.4 dB
CF = 1.6 dB
AG = 29.0 dB
PD = 0.0 dB
AV = -10 dB

FS = 62.0 + 7.4 + 1.6 – 29.0 + 0.0 + (-10.0) = 32.0 dBμV/m

Level in μV/m = Common Antilogarithm [(32.0 dBμV/m)/20] = 39.8 μV/m

4.6 Transmitter Radiated Emissions in Restricted Bands and Spurious Emissions

Data is included of the worst case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included.

The data on the following pages list the significant emission frequencies, the limit and the margin of compliance.

4.6.1 Radiated Emission Configuration Photograph

Worst Case Restricted Band Radiated Emission
at

36470.000 MHz

The worst case radiated emission configuration photographs are saved with filename: config photos.pdf

4.6.2 Radiated Emission Data

The data in tables 1-10 list the significant emission frequencies, the limit and the margin of compliance.

Judgement -

Passed by 0.1 dB margin compare with average limit

Mode: A Mode 5180MHz Ant 0

Table 1
IEEE 802.11a (OFDM, 6 Mbps)

Radiated Emission Data

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***47.1***	***33***	***35.7***	***49.8***	***68.2***	***-18.4***
V	***15540.000***	***40.5***	***33***	***37.7***	***45.2***	***68.2***	***-23.0***
V	***19375.000***	***45.8***	***33***	***37.7***	***50.5***	***68.2***	***-17.7***
V	***20720.000***	***45.2***	***33***	***37.7***	***49.9***	***68.2***	***-18.3***

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***47.1***	***33***	***35.7***	***49.8***	***54.0***	***-4.2***
V	***15540.000***	***40.5***	***33***	***37.7***	***45.2***	***54.0***	***-8.8***
V	***19375.000***	***45.8***	***33***	***37.7***	***50.5***	***54.0***	***-3.5***
V	***20720.000***	***45.2***	***33***	***37.7***	***49.9***	***54.0***	***-4.1***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: A Mode 5200MHz Ant 0

Table 2
IEEE 802.11a (OFDM, 6 Mbps)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***15600.000***	***40.6***	***33***	***37.7***	***45.3***	***68.2***	***-22.9***
V	***19395.000***	***45.9***	***33***	***37.7***	***50.6***	***68.2***	***-17.6***
V	***20800.000***	***45.1***	***33***	***37.7***	***49.8***	***68.2***	***-18.4***
V	***31200.000***	***43.3***	***33***	***42.1***	***52.4***	***68.2***	***-15.8***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***15600.000***	***40.6***	***33***	***37.7***	***45.3***	***54.0***	***-8.7***
V	***19395.000***	***45.9***	***33***	***37.7***	***50.6***	***54.0***	***-3.4***
V	***20800.000***	***45.1***	***33***	***37.7***	***49.8***	***54.0***	***-4.2***
V	***31200.000***	***43.3***	***33***	***42.1***	***52.4***	***54.0***	***-1.6***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: A Mode 5240MHz Ant 0

Table 3
IEEE 802.11a (OFDM, 6 Mbps)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5350.000***	***45.5***	***33***	***35.7***	***48.2***	***68.2***	***-20.0***
V	***15720.000***	***40.7***	***33***	***37.7***	***45.4***	***68.2***	***-22.8***
V	***19435.000***	***45.5***	***33***	***37.7***	***50.2***	***68.2***	***-18.0***
V	***20960.000***	***44.9***	***33***	***37.7***	***49.6***	***68.2***	***-18.6***
H	***31140.000***	***43.1***	***33***	***42.1***	***52.2***	***68.2***	***-16.0***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5350.000***	***45.5***	***33***	***35.7***	***48.2***	***54.0***	***-5.8***
V	***15720.000***	***40.7***	***33***	***37.7***	***45.4***	***54.0***	***-8.6***
V	***19435.000***	***45.5***	***33***	***37.7***	***50.2***	***54.0***	***-3.8***
V	***20960.000***	***44.9***	***33***	***37.7***	***49.6***	***54.0***	***-4.4***
H	***31140.000***	***43.1***	***33***	***42.1***	***52.2***	***54.0***	***-1.8***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: A Mode 5180MHz Ant 1

Table 4
IEEE 802.11a (OFDM, 6 Mbps)

Radiated Emission Data

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***46.0***	***33***	***35.7***	***48.7***	***68.2***	***-19.5***
V	***15540.000***	***40.4***	***33***	***37.7***	***45.1***	***68.2***	***-23.1***
V	***19375.000***	***46.1***	***33***	***37.7***	***50.8***	***68.2***	***-17.4***
V	***20720.000***	***44.7***	***33***	***37.7***	***49.4***	***68.2***	***-18.8***

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***46.0***	***33***	***35.7***	***48.7***	***54.0***	***-5.3***
V	***15540.000***	***40.4***	***33***	***37.7***	***45.1***	***54.0***	***-8.9***
V	***19375.000***	***46.1***	***33***	***37.7***	***50.8***	***54.0***	***-3.2***
V	***20720.000***	***44.7***	***33***	***37.7***	***49.4***	***54.0***	***-4.6***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: A Mode 5200MHz Ant 1

Table 5
IEEE 802.11a (OFDM, 6 Mbps)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***15600.000***	***40.6***	***33***	***37.7***	***45.3***	***68.2***	***-22.9***
V	***19395.000***	***46.1***	***33***	***37.7***	***50.8***	***68.2***	***-17.4***
V	***20800.000***	***45.2***	***33***	***37.7***	***49.9***	***68.2***	***-18.3***
V	***31200.000***	***43.6***	***33***	***42.1***	***52.7***	***68.2***	***-15.5***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***15600.000***	***40.6***	***33***	***37.7***	***45.3***	***54.0***	***-8.7***
V	***19395.000***	***46.1***	***33***	***37.7***	***50.8***	***54.0***	***-3.2***
V	***20800.000***	***45.2***	***33***	***37.7***	***49.9***	***54.0***	***-4.1***
V	***31200.000***	***43.6***	***33***	***42.1***	***52.7***	***54.0***	***-1.3***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: A Mode 5240MHz Ant 1

Table 6
IEEE 802.11a (OFDM, 6 Mbps)

Radiated Emission Data

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5350.000***	***45.4***	***33***	***35.7***	***48.1***	***68.2***	***-20.1***
V	***15720.000***	***41.1***	***33***	***37.7***	***45.8***	***68.2***	***-22.4***
V	***19435.000***	***45.4***	***33***	***37.7***	***50.1***	***68.2***	***-18.1***
V	***20960.000***	***45.1***	***33***	***37.7***	***49.8***	***68.2***	***-18.4***
H	***31440.000***	***43.5***	***33***	***42.1***	***52.6***	***68.2***	***-15.6***

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5350.000***	***45.4***	***33***	***35.7***	***48.1***	***54.0***	***-5.9***
V	***15720.000***	***41.1***	***33***	***37.7***	***45.8***	***54.0***	***-8.2***
V	***19435.000***	***45.4***	***33***	***37.7***	***50.1***	***54.0***	***-3.9***
V	***20960.000***	***45.1***	***33***	***37.7***	***49.8***	***54.0***	***-4.2***
H	***31440.000***	***43.5***	***33***	***42.1***	***52.6***	***54.0***	***-1.4***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: A Mode 5180MHz Ant 2

Table 7
IEEE 802.11a (OFDM, 6 Mbps)

Radiated Emission Data

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***46.0***	***33***	***35.7***	***48.7***	***68.2***	***-19.5***
V	***15540.000***	***40.8***	***33***	***37.7***	***45.5***	***68.2***	***-22.7***
V	***19375.000***	***45.9***	***33***	***37.7***	***50.6***	***68.2***	***-17.6***
V	***20720.000***	***45.0***	***33***	***37.7***	***49.7***	***68.2***	***-18.5***

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***46.0***	***33***	***35.7***	***48.7***	***54.0***	***-5.3***
V	***15540.000***	***40.8***	***33***	***37.7***	***45.5***	***54.0***	***-8.5***
V	***19375.000***	***45.9***	***33***	***37.7***	***50.6***	***54.0***	***-3.4***
V	***20720.000***	***45.0***	***33***	***37.7***	***49.7***	***54.0***	***-4.3***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: A Mode 5200MHz Ant 2

Table 8
IEEE 802.11a (OFDM, 6 Mbps)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***15600.000***	***40.8***	***33***	***37.7***	***45.5***	***68.2***	***-22.7***
V	***19395.000***	***46.1***	***33***	***37.7***	***50.8***	***68.2***	***-17.4***
V	***20800.000***	***45.0***	***33***	***37.7***	***49.7***	***68.2***	***-18.5***
V	***31200.000***	***43.8***	***33***	***42.1***	***52.9***	***68.2***	***-15.3***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***15600.000***	***40.8***	***33***	***37.7***	***45.5***	***54.0***	***-8.5***
V	***19395.000***	***46.1***	***33***	***37.7***	***50.8***	***54.0***	***-3.2***
V	***20800.000***	***45.0***	***33***	***37.7***	***49.7***	***54.0***	***-4.3***
V	***31200.000***	***43.8***	***33***	***42.1***	***52.9***	***54.0***	***-1.1***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: A Mode 5240MHz Ant 2

Table 9
IEEE 802.11a (OFDM, 6 Mbps)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5350.000***	***45.2***	***33***	***35.7***	***47.9***	***68.2***	***-20.3***
V	***15720.000***	***40.5***	***33***	***37.7***	***45.2***	***68.2***	***-23.0***
V	***19435.000***	***46.1***	***33***	***37.7***	***50.8***	***68.2***	***-17.4***
V	***20960.000***	***44.8***	***33***	***37.7***	***49.5***	***68.2***	***-18.7***
H	***31440.000***	***43.7***	***33***	***42.1***	***52.8***	***68.2***	***-15.4***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5350.000***	***45.2***	***33***	***35.7***	***47.9***	***54.0***	***-6.1***
V	***15720.000***	***40.5***	***33***	***37.7***	***45.2***	***54.0***	***-8.8***
V	***19435.000***	***46.1***	***33***	***37.7***	***50.8***	***54.0***	***-3.2***
V	***20960.000***	***44.8***	***33***	***37.7***	***49.5***	***54.0***	***-4.5***
H	***31440.000***	***43.7***	***33***	***42.1***	***52.8***	***54.0***	***-1.2***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: A Mode 5180MHz Ant 0+1+2

Table 10
IEEE 802.11a (OFDM, 6 Mbps)

Radiated Emission Data

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***46.4***	***33***	***35.7***	***49.1***	***68.2***	***-19.1***
V	***15540.000***	***41.0***	***33***	***37.7***	***45.7***	***68.2***	***-22.5***
V	***19375.000***	***45.7***	***33***	***37.7***	***50.4***	***68.2***	***-17.8***
V	***20720.000***	***45.1***	***33***	***37.7***	***49.8***	***68.2***	***-18.4***

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***46.4***	***33***	***35.7***	***49.1***	***54.0***	***-4.9***
V	***15540.000***	***41.0***	***33***	***37.7***	***45.7***	***54.0***	***-8.3***
V	***19375.000***	***45.7***	***33***	***37.7***	***50.4***	***54.0***	***-3.6***
V	***20720.000***	***45.1***	***33***	***37.7***	***49.8***	***54.0***	***-4.2***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: A Mode 5200MHz Ant 0+1+2

Table 11
IEEE 802.11n (HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***15600.000***	***41.1***	***33***	***37.7***	***45.8***	***68.2***	***-22.4***
V	***19395.000***	***45.9***	***33***	***37.7***	***50.6***	***68.2***	***-17.6***
V	***20800.000***	***44.8***	***33***	***37.7***	***49.5***	***68.2***	***-18.7***
V	***31200.000***	***43.1***	***33***	***42.1***	***52.2***	***68.2***	***-16.0***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***15600.000***	***41.1***	***33***	***37.7***	***45.8***	***54.0***	***-8.2***
V	***19395.000***	***45.9***	***33***	***37.7***	***50.6***	***54.0***	***-3.4***
V	***20800.000***	***44.8***	***33***	***37.7***	***49.5***	***54.0***	***-4.5***
V	***31200.000***	***43.1***	***33***	***42.1***	***52.2***	***54.0***	***-1.8***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: A Mode 5240MHz Ant 0+1+2

Table 12
IEEE 802.11n (HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5350.000***	***47.4***	***33***	***35.7***	***50.1***	***68.2***	***-18.1***
V	***15720.000***	***40.6***	***33***	***37.7***	***45.3***	***68.2***	***-22.9***
V	***19435.000***	***45.9***	***33***	***37.7***	***50.6***	***68.2***	***-17.6***
V	***20960.000***	***44.7***	***33***	***37.7***	***49.4***	***68.2***	***-18.8***
H	***31440.000***	***43.3***	***33***	***42.1***	***52.4***	***68.2***	***-15.8***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5350.000***	***47.4***	***33***	***35.7***	***50.1***	***54.0***	***-3.9***
V	***15720.000***	***40.6***	***33***	***37.7***	***45.3***	***54.0***	***-8.7***
V	***19435.000***	***45.9***	***33***	***37.7***	***50.6***	***54.0***	***-3.4***
V	***20960.000***	***44.7***	***33***	***37.7***	***49.4***	***54.0***	***-4.6***
H	***31440.000***	***43.3***	***33***	***42.1***	***52.4***	***54.0***	***-1.6***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: N Mode 20MHz 5180MHz Ant 0

Table 13
IEEE 802.11n (HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***45.7***	***33***	***35.7***	***48.4***	***68.2***	***-19.8***
V	***15540.000***	***40.5***	***33***	***37.7***	***45.2***	***68.2***	***-23.0***
V	***19375.000***	***46.0***	***33***	***37.7***	***50.7***	***68.2***	***-17.5***
V	***20720.000***	***44.3***	***33***	***37.7***	***49.0***	***68.2***	***-19.2***

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***45.7***	***33***	***35.7***	***48.4***	***54.0***	***-5.6***
V	***15540.000***	***40.5***	***33***	***37.7***	***45.2***	***54.0***	***-8.8***
V	***19375.000***	***46.0***	***33***	***37.7***	***50.7***	***54.0***	***-3.3***
V	***20720.000***	***44.3***	***33***	***37.7***	***49.0***	***54.0***	***-5.0***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: N Mode 20MHz 5200MHz Ant 0

Table 14
IEEE 802.11n (HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***15600.000***	***41.1***	***33***	***37.7***	***45.8***	***68.2***	***-22.4***
V	***19395.000***	***45.7***	***33***	***37.7***	***50.4***	***68.2***	***-17.8***
V	***20800.000***	***44.9***	***33***	***37.7***	***49.6***	***68.2***	***-18.6***
V	***31200.000***	***43.2***	***33***	***42.1***	***52.3***	***68.2***	***-15.9***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***15600.000***	***41.1***	***33***	***37.7***	***45.8***	***54.0***	***-8.2***
V	***19395.000***	***45.7***	***33***	***37.7***	***50.4***	***54.0***	***-3.6***
V	***20800.000***	***44.9***	***33***	***37.7***	***49.6***	***54.0***	***-4.4***
V	***31200.000***	***43.2***	***33***	***42.1***	***52.3***	***54.0***	***-1.7***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: N Mode 20MHz 5240MHz Ant 0

Table 15
IEEE 802.11n (HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5350.000***	***44.4***	***33***	***35.7***	***47.1***	***68.2***	***-21.1***
V	***15720.000***	***40.7***	***33***	***37.7***	***45.4***	***68.2***	***-22.8***
V	***19435.000***	***46.1***	***33***	***37.7***	***50.8***	***68.2***	***-17.4***
V	***20960.000***	***44.8***	***33***	***37.7***	***49.5***	***68.2***	***-18.7***
H	***31440.000***	***43.6***	***33***	***42.1***	***52.7***	***68.2***	***-15.5***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5350.000***	***44.4***	***33***	***35.7***	***47.1***	***54.0***	***-6.9***
V	***15720.000***	***40.7***	***33***	***37.7***	***45.4***	***54.0***	***-8.6***
V	***19435.000***	***46.1***	***33***	***37.7***	***50.8***	***54.0***	***-3.2***
V	***20960.000***	***44.8***	***33***	***37.7***	***49.5***	***54.0***	***-4.5***
H	***31440.000***	***43.6***	***33***	***42.1***	***52.7***	***54.0***	***-1.3***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: N Mode 20MHz 5180MHz Ant 1

Table 16
IEEE 802.11n (HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***45.0***	***33***	***35.7***	***47.7***	***68.2***	***-20.5***
V	***15540.000***	***40.6***	***33***	***37.7***	***45.3***	***68.2***	***-22.9***
V	***19375.000***	***45.9***	***33***	***37.7***	***50.6***	***68.2***	***-17.6***
V	***20720.000***	***45.1***	***33***	***37.7***	***49.8***	***68.2***	***-18.4***

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***45.0***	***33***	***35.7***	***47.7***	***54.0***	***-6.3***
V	***15540.000***	***40.6***	***33***	***37.7***	***45.3***	***54.0***	***-8.7***
V	***19375.000***	***45.9***	***33***	***37.7***	***50.6***	***54.0***	***-3.4***
V	***20720.000***	***45.1***	***33***	***37.7***	***49.8***	***54.0***	***-4.2***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: N Mode 20MHz 5200MHz Ant 1

Table 17
IEEE 802.11n (HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***15600.000***	***41.0***	***33***	***37.7***	***45.7***	***68.2***	***-22.5***
V	***19395.000***	***45.4***	***33***	***37.7***	***50.1***	***68.2***	***-18.1***
V	***20800.000***	***44.9***	***33***	***37.7***	***49.6***	***68.2***	***-18.6***
V	***31200.000***	***43.3***	***33***	***42.1***	***52.4***	***68.2***	***-15.8***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***15600.000***	***41.0***	***33***	***37.7***	***45.7***	***54.0***	***-8.3***
V	***19395.000***	***45.4***	***33***	***37.7***	***50.1***	***54.0***	***-3.9***
V	***20800.000***	***44.9***	***33***	***37.7***	***49.6***	***54.0***	***-4.4***
V	***31200.000***	***43.3***	***33***	***42.1***	***52.4***	***54.0***	***-1.6***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: N Mode 20MHz 5240MHz Ant 1

Table 18
IEEE 802.11n (HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5350.000***	***44.1***	***33***	***35.7***	***46.8***	***68.2***	***-21.4***
V	***15720.000***	***40.8***	***33***	***37.7***	***45.5***	***68.2***	***-22.7***
V	***19435.000***	***45.5***	***33***	***37.7***	***50.2***	***68.2***	***-18.0***
V	***20960.000***	***44.9***	***33***	***37.7***	***49.6***	***68.2***	***-18.6***
H	***31440.000***	***43.7***	***33***	***42.1***	***52.8***	***68.2***	***-15.4***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5350.000***	***44.1***	***33***	***35.7***	***46.8***	***54.0***	***-7.2***
V	***15720.000***	***40.8***	***33***	***37.7***	***45.5***	***54.0***	***-8.5***
V	***19435.000***	***45.5***	***33***	***37.7***	***50.2***	***54.0***	***-3.8***
V	***20960.000***	***44.9***	***33***	***37.7***	***49.6***	***54.0***	***-4.4***
H	***31440.000***	***43.7***	***33***	***42.1***	***52.8***	***54.0***	***-1.2***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: N Mode 20MHz 5180MHz Ant 2

Table 19
IEEE 802.11n (HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***45.4***	***33***	***35.7***	***48.1***	***68.2***	***-20.1***
V	***15540.000***	***41.1***	***33***	***37.7***	***45.8***	***68.2***	***-22.4***
V	***19375.000***	***45.8***	***33***	***37.7***	***50.5***	***68.2***	***-17.7***
V	***20720.000***	***45.0***	***33***	***37.7***	***49.7***	***68.2***	***-18.5***

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***45.4***	***33***	***35.7***	***48.1***	***54.0***	***-5.9***
V	***15540.000***	***41.1***	***33***	***37.7***	***45.8***	***54.0***	***-8.2***
V	***19375.000***	***45.8***	***33***	***37.7***	***50.5***	***54.0***	***-3.5***
V	***20720.000***	***45.0***	***33***	***37.7***	***49.7***	***54.0***	***-4.3***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: N Mode 20MHz 5200MHz Ant 2

Table 20
IEEE 802.11n (HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***15600.000***	***40.6***	***33***	***37.7***	***45.3***	***68.2***	***-22.9***
V	***19395.000***	***46.1***	***33***	***37.7***	***50.8***	***68.2***	***-17.4***
V	***20800.000***	***44.9***	***33***	***37.7***	***49.6***	***68.2***	***-18.6***
V	***31200.000***	***43.3***	***33***	***42.1***	***52.4***	***68.2***	***-15.8***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***15600.000***	***40.6***	***33***	***37.7***	***45.3***	***54.0***	***-8.7***
V	***19395.000***	***46.1***	***33***	***37.7***	***50.8***	***54.0***	***-3.2***
V	***20800.000***	***44.9***	***33***	***37.7***	***49.6***	***54.0***	***-4.4***
V	***31200.000***	***43.3***	***33***	***42.1***	***52.4***	***54.0***	***-1.6***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: N Mode 20MHz 5240MHz Ant 2

Table 21
IEEE 802.11n (HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5350.000***	***44.4***	***33***	***35.7***	***47.1***	***68.2***	***-21.1***
V	***15720.000***	***40.6***	***33***	***37.7***	***45.3***	***68.2***	***-22.9***
V	***19435.000***	***46.0***	***33***	***37.7***	***50.7***	***68.2***	***-17.5***
V	***20960.000***	***44.7***	***33***	***37.7***	***49.4***	***68.2***	***-18.8***
H	***31440.000***	***43.8***	***33***	***42.1***	***52.9***	***68.2***	***-15.3***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5350.000***	***44.4***	***33***	***35.7***	***47.1***	***54.0***	***-6.9***
V	***15720.000***	***40.6***	***33***	***37.7***	***45.3***	***54.0***	***-8.7***
V	***19435.000***	***46.0***	***33***	***37.7***	***50.7***	***54.0***	***-3.3***
V	***20960.000***	***44.7***	***33***	***37.7***	***49.4***	***54.0***	***-4.6***
H	***31440.000***	***43.8***	***33***	***42.1***	***52.9***	***54.0***	***-1.1***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: N Mode 20MHz 5180MHz Ant 0+1+2

Table 22
IEEE 802.11n (HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***46.1***	***33***	***35.7***	***48.8***	***68.2***	***-19.4***
V	***15540.000***	***41.2***	***33***	***37.7***	***45.9***	***68.2***	***-22.3***
V	***19375.000***	***45.6***	***33***	***37.7***	***50.3***	***68.2***	***-17.9***
V	***20720.000***	***44.9***	***33***	***37.7***	***49.6***	***68.2***	***-18.6***

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***46.1***	***33***	***35.7***	***48.8***	***54.0***	***-5.2***
V	***15540.000***	***41.2***	***33***	***37.7***	***45.9***	***54.0***	***-8.1***
V	***19375.000***	***45.6***	***33***	***37.7***	***50.3***	***54.0***	***-3.7***
V	***20720.000***	***44.9***	***33***	***37.7***	***49.6***	***54.0***	***-4.4***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: N Mode 20MHz 5200MHz Ant 0+1+2

Table 23
IEEE 802.11n (HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***15600.000***	***40.9***	***33***	***37.7***	***45.6***	***68.2***	***-22.6***
V	***19395.000***	***46.2***	***33***	***37.7***	***50.9***	***68.2***	***-17.3***
V	***20800.000***	***44.7***	***33***	***37.7***	***49.4***	***68.2***	***-18.8***
V	***31200.000***	***43.5***	***33***	***42.1***	***52.6***	***68.2***	***-15.6***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***15600.000***	***40.9***	***33***	***37.7***	***45.6***	***54.0***	***-8.4***
V	***19395.000***	***46.2***	***33***	***37.7***	***50.9***	***54.0***	***-3.1***
V	***20800.000***	***44.7***	***33***	***37.7***	***49.4***	***54.0***	***-4.6***
V	***31200.000***	***43.5***	***33***	***42.1***	***52.6***	***54.0***	***-1.4***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: N Mode 20MHz 5240MHz Ant 0+1+2

Table 24
IEEE 802.11n (HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5350.000***	***44.7***	***33***	***35.7***	***47.4***	***68.2***	***-20.8***
V	***15720.000***	***40.8***	***33***	***37.7***	***45.5***	***68.2***	***-22.7***
V	***19435.000***	***45.7***	***33***	***37.7***	***50.4***	***68.2***	***-17.8***
V	***20960.000***	***45.1***	***33***	***37.7***	***49.8***	***68.2***	***-18.4***
H	***31440.000***	***43.7***	***33***	***42.1***	***52.8***	***68.2***	***-15.4***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5350.000***	***44.7***	***33***	***35.7***	***47.4***	***54.0***	***-6.6***
V	***15720.000***	***40.8***	***33***	***37.7***	***45.5***	***54.0***	***-8.5***
V	***19435.000***	***45.7***	***33***	***37.7***	***50.4***	***54.0***	***-3.6***
V	***20960.000***	***45.1***	***33***	***37.7***	***49.8***	***54.0***	***-4.2***
H	***31440.000***	***43.7***	***33***	***42.1***	***52.8***	***54.0***	***-1.2***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: N Mode 40MHz 5190MHz Ant 0

Table 25
IEEE 802.11n (HT40, MCS0)

Radiated Emission Data

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***44.4***	***33***	***35.7***	***47.1***	***68.2***	***-21.1***
V	***15570.000***	***40.9***	***33***	***37.7***	***45.6***	***68.2***	***-22.6***
V	***19385.000***	***45.6***	***33***	***37.7***	***50.3***	***68.2***	***-17.9***
V	***20760.000***	***45.1***	***33***	***37.7***	***49.8***	***68.2***	***-18.4***
H	***31140.000***	***43.1***	***33***	***42.1***	***52.2***	***68.2***	***-16.0***

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***44.4***	***33***	***35.7***	***47.1***	***54.0***	***-6.9***
V	***15570.000***	***40.9***	***33***	***37.7***	***45.6***	***54.0***	***-8.4***
V	***19385.000***	***45.6***	***33***	***37.7***	***50.3***	***54.0***	***-3.7***
V	***20760.000***	***45.1***	***33***	***37.7***	***49.8***	***54.0***	***-4.2***
H	***31140.000***	***43.1***	***33***	***42.1***	***52.2***	***54.0***	***-1.8***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: N Mode 40MHz 5230MHz Ant 0

Table 26
IEEE 802.11n (HT40, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5350.000***	***44.3***	***33***	***35.7***	***47.0***	***68.2***	***-21.2***
V	***15960.000***	***41.0***	***33***	***37.7***	***45.7***	***68.2***	***-22.5***
V	***19425.000***	***45.9***	***33***	***37.7***	***50.6***	***68.2***	***-17.6***
V	***20920.000***	***44.6***	***33***	***37.7***	***49.3***	***68.2***	***-18.9***
H	***31380.000***	***43.6***	***33***	***42.1***	***52.7***	***68.2***	***-15.5***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5350.000***	***44.3***	***33***	***35.7***	***47.0***	***54.0***	***-7.0***
V	***15960.000***	***41.0***	***33***	***37.7***	***45.7***	***54.0***	***-8.3***
V	***19425.000***	***45.9***	***33***	***37.7***	***50.6***	***54.0***	***-3.4***
V	***20920.000***	***44.6***	***33***	***37.7***	***49.3***	***54.0***	***-4.7***
H	***31380.000***	***43.6***	***33***	***42.1***	***52.7***	***54.0***	***-1.3***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: N Mode 40MHz 5190MHz Ant 1

Table 27
IEEE 802.11n (HT40, MCS0)

Radiated Emission Data

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***44.5***	***33***	***35.7***	***47.2***	***68.2***	***-21.0***
V	***15570.000***	***40.8***	***33***	***37.7***	***45.5***	***68.2***	***-22.7***
V	***19385.000***	***45.6***	***33***	***37.7***	***50.3***	***68.2***	***-17.9***
V	***20760.000***	***45.1***	***33***	***37.7***	***49.8***	***68.2***	***-18.4***
H	***31140.000***	***43.4***	***33***	***42.1***	***52.5***	***68.2***	***-15.7***

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***44.5***	***33***	***35.7***	***47.2***	***54.0***	***-6.8***
V	***15570.000***	***40.8***	***33***	***37.7***	***45.5***	***54.0***	***-8.5***
V	***19385.000***	***45.6***	***33***	***37.7***	***50.3***	***54.0***	***-3.7***
V	***20760.000***	***45.1***	***33***	***37.7***	***49.8***	***54.0***	***-4.2***
H	***31140.000***	***43.4***	***33***	***42.1***	***52.5***	***54.0***	***-1.5***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: N Mode 40MHz 5230MHz Ant 1

Table 28
IEEE 802.11n (HT40, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5350.000***	***44.1***	***33***	***35.7***	***46.8***	***68.2***	***-21.4***
V	***15960.000***	***40.6***	***33***	***37.7***	***45.3***	***68.2***	***-22.9***
V	***19425.000***	***46.1***	***33***	***37.7***	***50.8***	***68.2***	***-17.4***
V	***20920.000***	***44.9***	***33***	***37.7***	***49.6***	***68.2***	***-18.6***
H	***31380.000***	***43.4***	***33***	***42.1***	***52.5***	***68.2***	***-15.7***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5350.000***	***44.1***	***33***	***35.7***	***46.8***	***54.0***	***-7.2***
V	***15960.000***	***40.6***	***33***	***37.7***	***45.3***	***54.0***	***-8.7***
V	***19425.000***	***46.1***	***33***	***37.7***	***50.8***	***54.0***	***-3.2***
V	***20920.000***	***44.9***	***33***	***37.7***	***49.6***	***54.0***	***-4.4***
H	***31380.000***	***43.4***	***33***	***42.1***	***52.5***	***54.0***	***-1.5***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: N Mode 40MHz 5190MHz Ant 2

Table 29
IEEE 802.11n (HT40, MCS0)

Radiated Emission Data

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***44.5***	***33***	***35.7***	***47.2***	***68.2***	***-21.0***
V	***15570.000***	***41.1***	***33***	***37.7***	***45.8***	***68.2***	***-22.4***
V	***19385.000***	***46.0***	***33***	***37.7***	***50.7***	***68.2***	***-17.5***
V	***20760.000***	***44.8***	***33***	***37.7***	***49.5***	***68.2***	***-18.7***
H	***31140.000***	***43.7***	***33***	***42.1***	***52.8***	***68.2***	***-15.4***

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***44.5***	***33***	***35.7***	***47.2***	***54.0***	***-6.8***
V	***15570.000***	***41.1***	***33***	***37.7***	***45.8***	***54.0***	***-8.2***
V	***19385.000***	***46.0***	***33***	***37.7***	***50.7***	***54.0***	***-3.3***
V	***20760.000***	***44.8***	***33***	***37.7***	***49.5***	***54.0***	***-4.5***
H	***31140.000***	***43.7***	***33***	***42.1***	***52.8***	***54.0***	***-1.2***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: N Mode 40MHz 5230MHz Ant 2

Table 30
IEEE 802.11n (HT40, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5350.000***	***44.4***	***33***	***35.7***	***47.1***	***68.2***	***-21.1***
V	***15960.000***	***41.2***	***33***	***37.7***	***45.9***	***68.2***	***-22.3***
V	***19425.000***	***45.9***	***33***	***37.7***	***50.6***	***68.2***	***-17.6***
V	***20920.000***	***44.7***	***33***	***37.7***	***49.4***	***68.2***	***-18.8***
H	***31380.000***	***43.2***	***33***	***42.1***	***52.3***	***68.2***	***-15.9***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5350.000***	***44.4***	***33***	***35.7***	***47.1***	***54.0***	***-6.9***
V	***15960.000***	***41.2***	***33***	***37.7***	***45.9***	***54.0***	***-8.1***
V	***19425.000***	***45.9***	***33***	***37.7***	***50.6***	***54.0***	***-3.4***
V	***20920.000***	***44.7***	***33***	***37.7***	***49.4***	***54.0***	***-4.6***
H	***31380.000***	***43.2***	***33***	***42.1***	***52.3***	***54.0***	***-1.7***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: N Mode 40MHz 5190MHz Ant 0+1+2

Table 31
IEEE 802.11n (HT40, MCS0)

Radiated Emission Data

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***46.5***	***33***	***35.7***	***49.2***	***68.2***	***-19.0***
V	***15570.000***	***40.7***	***33***	***37.7***	***45.4***	***68.2***	***-22.8***
V	***19385.000***	***46.1***	***33***	***37.7***	***50.8***	***68.2***	***-17.4***
V	***20760.000***	***44.8***	***33***	***37.7***	***49.5***	***68.2***	***-18.7***
H	***31140.000***	***43.7***	***33***	***42.1***	***52.8***	***68.2***	***-15.4***

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***46.5***	***33***	***35.7***	***49.2***	***54.0***	***-4.8***
V	***15570.000***	***40.7***	***33***	***37.7***	***45.4***	***54.0***	***-8.6***
V	***19385.000***	***46.1***	***33***	***37.7***	***50.8***	***54.0***	***-3.2***
V	***20760.000***	***44.8***	***33***	***37.7***	***49.5***	***54.0***	***-4.5***
H	***31140.000***	***43.7***	***33***	***42.1***	***52.8***	***54.0***	***-1.2***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: N Mode 40MHz 5230MHz Ant 0+1+2

Table 32
IEEE 802.11n (HT40, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5350.000***	***45.7***	***33***	***35.7***	***48.4***	***68.2***	***-19.8***
V	***15960.000***	***40.7***	***33***	***37.7***	***45.4***	***68.2***	***-22.8***
V	***19425.000***	***46.0***	***33***	***37.7***	***50.7***	***68.2***	***-17.5***
V	***20920.000***	***44.8***	***33***	***37.7***	***49.5***	***68.2***	***-18.7***
H	***31380.000***	***43.5***	***33***	***42.1***	***52.6***	***68.2***	***-15.6***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5350.000***	***45.7***	***33***	***35.7***	***48.4***	***54.0***	***-5.6***
V	***15960.000***	***40.7***	***33***	***37.7***	***45.4***	***54.0***	***-8.6***
V	***19425.000***	***46.0***	***33***	***37.7***	***50.7***	***54.0***	***-3.3***
V	***20920.000***	***44.8***	***33***	***37.7***	***49.5***	***54.0***	***-4.5***
H	***31380.000***	***43.5***	***33***	***42.1***	***52.6***	***54.0***	***-1.4***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 20MHz 5180MHz Ant 0

Table 33
IEEE 802.11ac (HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***45.3***	***33***	***35.7***	***48.0***	***68.2***	***-20.2***
V	***15540.000***	***40.8***	***33***	***37.7***	***45.5***	***68.2***	***-22.7***
V	***19375.000***	***46.1***	***33***	***37.7***	***50.8***	***68.2***	***-17.4***
V	***20720.000***	***44.6***	***33***	***37.7***	***49.3***	***68.2***	***-18.9***

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***45.3***	***33***	***35.7***	***48.0***	***54.0***	***-6.0***
V	***15540.000***	***40.8***	***33***	***37.7***	***45.5***	***54.0***	***-8.5***
V	***19375.000***	***46.1***	***33***	***37.7***	***50.8***	***54.0***	***-3.2***
V	***20720.000***	***44.6***	***33***	***37.7***	***49.3***	***54.0***	***-4.7***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 20MHz 5200MHz Ant 0

Table 34
IEEE 802.11ac (HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***15600.000***	***41.0***	***33***	***37.7***	***45.7***	***68.2***	***-22.5***
V	***19395.000***	***45.7***	***33***	***37.7***	***50.4***	***68.2***	***-17.8***
V	***20800.000***	***45.2***	***33***	***37.7***	***49.9***	***68.2***	***-18.3***
V	***31200.000***	***43.2***	***33***	***42.1***	***52.3***	***68.2***	***-15.9***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***15600.000***	***41.0***	***33***	***37.7***	***45.7***	***54.0***	***-8.3***
V	***19395.000***	***45.7***	***33***	***37.7***	***50.4***	***54.0***	***-3.6***
V	***20800.000***	***45.2***	***33***	***37.7***	***49.9***	***54.0***	***-4.1***
V	***31200.000***	***43.2***	***33***	***42.1***	***52.3***	***54.0***	***-1.7***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 20MHz 5240MHz Ant 0

Table 35
IEEE 802.11ac (HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5350.000***	***43.9***	***33***	***35.7***	***46.6***	***68.2***	***-21.6***
V	***15720.000***	***40.6***	***33***	***37.7***	***45.3***	***68.2***	***-22.9***
V	***19435.000***	***46.0***	***33***	***37.7***	***50.7***	***68.2***	***-17.5***
V	***20960.000***	***44.8***	***33***	***37.7***	***49.5***	***68.2***	***-18.7***
H	***31440.000***	***43.5***	***33***	***42.1***	***52.6***	***68.2***	***-15.6***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5350.000***	***43.9***	***33***	***35.7***	***46.6***	***54.0***	***-7.4***
V	***15720.000***	***40.6***	***33***	***37.7***	***45.3***	***54.0***	***-8.7***
V	***19435.000***	***46.0***	***33***	***37.7***	***50.7***	***54.0***	***-3.3***
V	***20960.000***	***44.8***	***33***	***37.7***	***49.5***	***54.0***	***-4.5***
H	***31440.000***	***43.5***	***33***	***42.1***	***52.6***	***54.0***	***-1.4***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 20MHz 5180MHz Ant 1

Table 36
IEEE 802.11ac (HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***45.4***	***33***	***35.7***	***48.1***	***68.2***	***-20.1***
V	***15540.000***	***40.8***	***33***	***37.7***	***45.5***	***68.2***	***-22.7***
V	***19375.000***	***45.5***	***33***	***37.7***	***50.2***	***68.2***	***-18.0***
V	***20720.000***	***44.9***	***33***	***37.7***	***49.6***	***68.2***	***-18.6***

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***45.4***	***33***	***35.7***	***48.1***	***54.0***	***-5.9***
V	***15540.000***	***40.8***	***33***	***37.7***	***45.5***	***54.0***	***-8.5***
V	***19375.000***	***45.5***	***33***	***37.7***	***50.2***	***54.0***	***-3.8***
V	***20720.000***	***44.9***	***33***	***37.7***	***49.6***	***54.0***	***-4.4***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 20MHz 5200MHz Ant 1

Table 37
IEEE 802.11ac (HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***15600.000***	***41.2***	***33***	***37.7***	***45.9***	***68.2***	***-22.3***
V	***19395.000***	***45.8***	***33***	***37.7***	***50.5***	***68.2***	***-17.7***
V	***20800.000***	***44.9***	***33***	***37.7***	***49.6***	***68.2***	***-18.6***
V	***31200.000***	***43.1***	***33***	***42.1***	***52.2***	***68.2***	***-16.0***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***15600.000***	***41.2***	***33***	***37.7***	***45.9***	***54.0***	***-8.1***
V	***19395.000***	***45.8***	***33***	***37.7***	***50.5***	***54.0***	***-3.5***
V	***20800.000***	***44.9***	***33***	***37.7***	***49.6***	***54.0***	***-4.4***
V	***31200.000***	***43.1***	***33***	***42.1***	***52.2***	***54.0***	***-1.8***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 20MHz 5240MHz Ant 1

Table 38
IEEE 802.11ac (HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5350.000***	***43.4***	***33***	***35.7***	***46.1***	***68.2***	***-22.1***
V	***15720.000***	***40.8***	***33***	***37.7***	***45.5***	***68.2***	***-22.7***
V	***19435.000***	***46.2***	***33***	***37.7***	***50.9***	***68.2***	***-17.3***
V	***20960.000***	***44.8***	***33***	***37.7***	***49.5***	***68.2***	***-18.7***
H	***31440.000***	***43.7***	***33***	***42.1***	***52.8***	***68.2***	***-15.4***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5350.000***	***43.4***	***33***	***35.7***	***46.1***	***54.0***	***-7.9***
V	***15720.000***	***40.8***	***33***	***37.7***	***45.5***	***54.0***	***-8.5***
V	***19435.000***	***46.2***	***33***	***37.7***	***50.9***	***54.0***	***-3.1***
V	***20960.000***	***44.8***	***33***	***37.7***	***49.5***	***54.0***	***-4.5***
H	***31440.000***	***43.7***	***33***	***42.1***	***52.8***	***54.0***	***-1.2***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 20MHz 5180MHz Ant 2

Table 39
IEEE 802.11ac (HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***45.8***	***33***	***35.7***	***48.5***	***68.2***	***-19.7***
V	***15540.000***	***40.8***	***33***	***37.7***	***45.5***	***68.2***	***-22.7***
V	***19375.000***	***45.7***	***33***	***37.7***	***50.4***	***68.2***	***-17.8***
V	***20720.000***	***45.0***	***33***	***37.7***	***49.7***	***68.2***	***-18.5***

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***45.8***	***33***	***35.7***	***48.5***	***54.0***	***-5.5***
V	***15540.000***	***40.8***	***33***	***37.7***	***45.5***	***54.0***	***-8.5***
V	***19375.000***	***45.7***	***33***	***37.7***	***50.4***	***54.0***	***-3.6***
V	***20720.000***	***45.0***	***33***	***37.7***	***49.7***	***54.0***	***-4.3***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 20MHz 5200MHz Ant 2

Table 40
IEEE 802.11ac (HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***10400.000***	***37.3***	***33***	***40.5***	***44.8***	***68.2***	***-23.4***
V	***19395.000***	***45.8***	***33***	***37.7***	***50.5***	***68.2***	***-17.7***
V	***20800.000***	***45.0***	***33***	***37.7***	***49.7***	***68.2***	***-18.5***
V	***31200.000***	***43.8***	***33***	***42.1***	***52.9***	***68.2***	***-15.3***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***10400.000***	***37.3***	***33***	***40.5***	***44.8***	***54.0***	***-9.2***
V	***19395.000***	***45.8***	***33***	***37.7***	***50.5***	***54.0***	***-3.5***
V	***20800.000***	***45.0***	***33***	***37.7***	***49.7***	***54.0***	***-4.3***
V	***31200.000***	***43.8***	***33***	***42.1***	***52.9***	***54.0***	***-1.1***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 20MHz 5240MHz Ant 2

Table 41
IEEE 802.11ac (HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5350.000***	***43.7***	***33***	***35.7***	***46.4***	***68.2***	***-21.8***
V	***15720.000***	***40.6***	***33***	***37.7***	***45.3***	***68.2***	***-22.9***
V	***19435.000***	***46.1***	***33***	***37.7***	***50.8***	***68.2***	***-17.4***
V	***20960.000***	***45.2***	***33***	***37.7***	***49.9***	***68.2***	***-18.3***
H	***31440.000***	***43.5***	***33***	***42.1***	***52.6***	***68.2***	***-15.6***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5350.000***	***43.7***	***33***	***35.7***	***46.4***	***54.0***	***-7.6***
V	***15720.000***	***40.6***	***33***	***37.7***	***45.3***	***54.0***	***-8.7***
V	***19435.000***	***46.1***	***33***	***37.7***	***50.8***	***54.0***	***-3.2***
V	***20960.000***	***45.2***	***33***	***37.7***	***49.9***	***54.0***	***-4.1***
H	***31440.000***	***43.5***	***33***	***42.1***	***52.6***	***54.0***	***-1.4***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 20MHz 5180MHz Ant 0+1+2

Table 42
IEEE 802.11ac (HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***46.5***	***33***	***35.7***	***49.2***	***68.2***	***-19.0***
V	***15540.000***	***40.5***	***33***	***37.7***	***45.2***	***68.2***	***-23.0***
V	***19375.000***	***46.1***	***33***	***37.7***	***50.8***	***68.2***	***-17.4***
V	***20720.000***	***44.7***	***33***	***37.7***	***49.4***	***68.2***	***-18.8***

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***46.5***	***33***	***35.7***	***49.2***	***54.0***	***-4.8***
V	***15540.000***	***40.5***	***33***	***37.7***	***45.2***	***54.0***	***-8.8***
V	***19375.000***	***46.1***	***33***	***37.7***	***50.8***	***54.0***	***-3.2***
V	***20720.000***	***44.7***	***33***	***37.7***	***49.4***	***54.0***	***-4.6***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 20MHz 5200MHz Ant 0+1+2

Table 43
IEEE 802.11ac (HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***15600.000***	***41.1***	***33***	***37.7***	***45.8***	***68.2***	***-22.4***
V	***19395.000***	***45.7***	***33***	***37.7***	***50.4***	***68.2***	***-17.8***
V	***20800.000***	***45.0***	***33***	***37.7***	***49.7***	***68.2***	***-18.5***
V	***31200.000***	***43.6***	***33***	***42.1***	***52.7***	***68.2***	***-15.5***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***15600.000***	***41.1***	***33***	***37.7***	***45.8***	***54.0***	***-8.2***
V	***19395.000***	***45.7***	***33***	***37.7***	***50.4***	***54.0***	***-3.6***
V	***20800.000***	***45.0***	***33***	***37.7***	***49.7***	***54.0***	***-4.3***
V	***31200.000***	***43.6***	***33***	***42.1***	***52.7***	***54.0***	***-1.3***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 20MHz 5240MHz Ant 0+1+2

Table 44
IEEE 802.11ac (HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5350.000***	***44.1***	***33***	***35.7***	***46.8***	***68.2***	***-21.4***
V	***10480.000***	***36.7***	***33***	***40.5***	***44.2***	***68.2***	***-24.0***
V	***19435.000***	***46.1***	***33***	***37.7***	***50.8***	***68.2***	***-17.4***
V	***20960.000***	***44.9***	***33***	***37.7***	***49.6***	***68.2***	***-18.6***
H	***31440.000***	***43.4***	***33***	***42.1***	***52.5***	***68.2***	***-15.7***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5350.000***	***44.1***	***33***	***35.7***	***46.8***	***54.0***	***-7.2***
V	***10480.000***	***36.7***	***33***	***40.5***	***44.2***	***54.0***	***-9.8***
V	***19435.000***	***46.1***	***33***	***37.7***	***50.8***	***54.0***	***-3.2***
V	***20960.000***	***44.9***	***33***	***37.7***	***49.6***	***54.0***	***-4.4***
H	***31440.000***	***43.4***	***33***	***42.1***	***52.5***	***54.0***	***-1.5***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 40MHz 5190MHz Ant 0

Table 45
IEEE 802.11ac (HT40, MCS0)

Radiated Emission Data

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***46.1***	***33***	***35.7***	***48.8***	***68.2***	***-19.4***
V	***15570.000***	***40.9***	***33***	***37.7***	***45.6***	***68.2***	***-22.6***
V	***19385.000***	***46.0***	***33***	***37.7***	***50.7***	***68.2***	***-17.5***
V	***20760.000***	***45.1***	***33***	***37.7***	***49.8***	***68.2***	***-18.4***
H	***31140.000***	***43.1***	***33***	***42.1***	***52.2***	***68.2***	***-16.0***

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***46.1***	***33***	***35.7***	***48.8***	***54.0***	***-5.2***
V	***15570.000***	***40.9***	***33***	***37.7***	***45.6***	***54.0***	***-8.4***
V	***19385.000***	***46.0***	***33***	***37.7***	***50.7***	***54.0***	***-3.3***
V	***20760.000***	***45.1***	***33***	***37.7***	***49.8***	***54.0***	***-4.2***
H	***31140.000***	***43.1***	***33***	***42.1***	***52.2***	***54.0***	***-1.8***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 40MHz 5230MHz Ant 0

Table 46
IEEE 802.11ac (HT40, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5350.000***	***43.5***	***33***	***35.7***	***46.2***	***68.2***	***-22.0***
V	***15690.000***	***40.8***	***33***	***37.7***	***45.5***	***68.2***	***-22.7***
V	***19425.000***	***45.6***	***33***	***37.7***	***50.3***	***68.2***	***-17.9***
V	***20920.000***	***44.8***	***33***	***37.7***	***49.5***	***68.2***	***-18.7***
H	***31380.000***	***43.1***	***33***	***42.1***	***52.2***	***68.2***	***-16.0***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5350.000***	***43.5***	***33***	***35.7***	***46.2***	***54.0***	***-7.8***
V	***15690.000***	***40.8***	***33***	***37.7***	***45.5***	***54.0***	***-8.5***
V	***19425.000***	***45.6***	***33***	***37.7***	***50.3***	***54.0***	***-3.7***
V	***20920.000***	***44.8***	***33***	***37.7***	***49.5***	***54.0***	***-4.5***
H	***31380.000***	***43.1***	***33***	***42.1***	***52.2***	***54.0***	***-1.8***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 40MHz 5190MHz Ant 1

Table 47
IEEE 802.11ac (HT40, MCS0)

Radiated Emission Data

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***46.1***	***33***	***35.7***	***48.8***	***68.2***	***-19.4***
V	***15570.000***	***40.7***	***33***	***37.7***	***45.4***	***68.2***	***-22.8***
V	***19385.000***	***45.8***	***33***	***37.7***	***50.5***	***68.2***	***-17.7***
V	***20760.000***	***45.1***	***33***	***37.7***	***49.8***	***68.2***	***-18.4***
H	***31140.000***	***43.8***	***33***	***42.1***	***52.9***	***68.2***	***-15.3***

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***46.1***	***33***	***35.7***	***48.8***	***54.0***	***-5.2***
V	***15570.000***	***40.7***	***33***	***37.7***	***45.4***	***54.0***	***-8.6***
V	***19385.000***	***45.8***	***33***	***37.7***	***50.5***	***54.0***	***-3.5***
V	***20760.000***	***45.1***	***33***	***37.7***	***49.8***	***54.0***	***-4.2***
H	***31140.000***	***43.8***	***33***	***42.1***	***52.9***	***54.0***	***-1.1***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 40MHz 5230MHz Ant 1

Table 48
IEEE 802.11ac (HT40, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5350.000***	***43.4***	***33***	***35.7***	***46.1***	***68.2***	***-22.1***
V	***15690.000***	***40.4***	***33***	***37.7***	***45.1***	***68.2***	***-23.1***
V	***19425.000***	***45.9***	***33***	***37.7***	***50.6***	***68.2***	***-17.6***
V	***20920.000***	***44.6***	***33***	***37.7***	***49.3***	***68.2***	***-18.9***
H	***31380.000***	***43.2***	***33***	***42.1***	***52.3***	***68.2***	***-15.9***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5350.000***	***43.4***	***33***	***35.7***	***46.1***	***54.0***	***-7.9***
V	***15690.000***	***40.4***	***33***	***37.7***	***45.1***	***54.0***	***-8.9***
V	***19425.000***	***45.9***	***33***	***37.7***	***50.6***	***54.0***	***-3.4***
V	***20920.000***	***44.6***	***33***	***37.7***	***49.3***	***54.0***	***-4.7***
H	***31380.000***	***43.2***	***33***	***42.1***	***52.3***	***54.0***	***-1.7***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 40MHz 5190MHz Ant 2

Table 49
IEEE 802.11ac (HT40, MCS0)

Radiated Emission Data

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***45.9***	***33***	***35.7***	***48.6***	***68.2***	***-19.6***
V	***15570.000***	***40.6***	***33***	***37.7***	***45.3***	***68.2***	***-22.9***
V	***19385.000***	***45.5***	***33***	***37.7***	***50.2***	***68.2***	***-18.0***
V	***20760.000***	***44.9***	***33***	***37.7***	***49.6***	***68.2***	***-18.6***
H	***31140.000***	***43.7***	***33***	***42.1***	***52.8***	***68.2***	***-15.4***

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***45.9***	***33***	***35.7***	***48.6***	***54.0***	***-5.4***
V	***15570.000***	***40.6***	***33***	***37.7***	***45.3***	***54.0***	***-8.7***
V	***19385.000***	***45.5***	***33***	***37.7***	***50.2***	***54.0***	***-3.8***
V	***20760.000***	***44.9***	***33***	***37.7***	***49.6***	***54.0***	***-4.4***
H	***31140.000***	***43.7***	***33***	***42.1***	***52.8***	***54.0***	***-1.2***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 40MHz 5230MHz Ant 2

Table 50
IEEE 802.11ac (HT40, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5350.000***	***44.0***	***33***	***35.7***	***46.7***	***68.2***	***-21.5***
V	***15690.000***	***40.8***	***33***	***37.7***	***45.5***	***68.2***	***-22.7***
V	***19425.000***	***46.1***	***33***	***37.7***	***50.8***	***68.2***	***-17.4***
V	***20920.000***	***44.9***	***33***	***37.7***	***49.6***	***68.2***	***-18.6***
H	***31380.000***	***43.8***	***33***	***42.1***	***52.9***	***68.2***	***-15.3***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5350.000***	***44.0***	***33***	***35.7***	***46.7***	***54.0***	***-7.3***
V	***15690.000***	***40.8***	***33***	***37.7***	***45.5***	***54.0***	***-8.5***
V	***19425.000***	***46.1***	***33***	***37.7***	***50.8***	***54.0***	***-3.2***
V	***20920.000***	***44.9***	***33***	***37.7***	***49.6***	***54.0***	***-4.4***
H	***31380.000***	***43.8***	***33***	***42.1***	***52.9***	***54.0***	***-1.1***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 40MHz 5190MHz Ant 0+1+2

Table 51
IEEE 802.11ac (HT40, MCS0)

Radiated Emission Data

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***46.8***	***33***	***35.7***	***49.5***	***68.2***	***-18.7***
V	***15570.000***	***40.9***	***33***	***37.7***	***45.6***	***68.2***	***-22.6***
V	***19385.000***	***45.5***	***33***	***37.7***	***50.2***	***68.2***	***-18.0***
V	***20760.000***	***45.1***	***33***	***37.7***	***49.8***	***68.2***	***-18.4***
H	***31140.000***	***43.3***	***33***	***42.1***	***52.4***	***68.2***	***-15.8***

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***46.8***	***33***	***35.7***	***49.5***	***54.0***	***-4.5***
V	***15570.000***	***40.9***	***33***	***37.7***	***45.6***	***54.0***	***-8.4***
V	***19385.000***	***45.5***	***33***	***37.7***	***50.2***	***54.0***	***-3.8***
V	***20760.000***	***45.1***	***33***	***37.7***	***49.8***	***54.0***	***-4.2***
H	***31140.000***	***43.3***	***33***	***42.1***	***52.4***	***54.0***	***-1.6***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 40MHz 5230MHz Ant 0+1+2

Table 52
IEEE 802.11ac (HT40, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5350.000***	***44.8***	***33***	***35.7***	***47.5***	***68.2***	***-20.7***
V	***15690.000***	***40.7***	***33***	***37.7***	***45.4***	***68.2***	***-22.8***
V	***19425.000***	***45.8***	***33***	***37.7***	***50.5***	***68.2***	***-17.7***
V	***20920.000***	***45.1***	***33***	***37.7***	***49.8***	***68.2***	***-18.4***
H	***31380.000***	***43.0***	***33***	***42.1***	***52.1***	***68.2***	***-16.1***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5350.000***	***44.8***	***33***	***35.7***	***47.5***	***54.0***	***-6.5***
V	***15690.000***	***40.7***	***33***	***37.7***	***45.4***	***54.0***	***-8.6***
V	***19425.000***	***45.8***	***33***	***37.7***	***50.5***	***54.0***	***-3.5***
V	***20920.000***	***45.1***	***33***	***37.7***	***49.8***	***54.0***	***-4.2***
H	***31380.000***	***43.0***	***33***	***42.1***	***52.1***	***54.0***	***-1.9***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 80MHz 5210MHz Ant 0

Table 53
IEEE 802.11ac (HT80, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***45.3***	***33***	***35.7***	***48.0***	***68.2***	***-20.2***
V	***5350.000***	***44.1***	***33***	***35.7***	***46.8***	***68.2***	***-21.4***
V	***15630.000***	***41.0***	***33***	***37.7***	***45.7***	***68.2***	***-22.5***
V	***19405.000***	***45.8***	***33***	***37.7***	***50.5***	***68.2***	***-17.7***
V	***20840.000***	***44.6***	***33***	***37.7***	***49.3***	***68.2***	***-18.9***
V	***31260.000***	***43.5***	***33***	***42.1***	***52.6***	***68.2***	***-15.6***
V	***36470.000***	***45.0***	***33***	***41.7***	***53.7***	***68.2***	***-14.5***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***45.3***	***33***	***35.7***	***48.0***	***54.0***	***-6.0***
V	***5350.000***	***44.1***	***33***	***35.7***	***46.8***	***54.0***	***-7.2***
V	***15630.000***	***41.0***	***33***	***37.7***	***45.7***	***54.0***	***-8.3***
V	***19405.000***	***45.8***	***33***	***37.7***	***50.5***	***54.0***	***-3.5***
V	***20840.000***	***44.6***	***33***	***37.7***	***49.3***	***54.0***	***-4.7***
V	***31260.000***	***43.5***	***33***	***42.1***	***52.6***	***54.0***	***-1.4***
V	***36470.000***	***45.0***	***33***	***41.7***	***53.7***	***54.0***	***-0.3***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 80MHz 5210MHz Ant 1

Table 54
IEEE 802.11ac (HT80, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***45.4***	***33***	***35.7***	***48.1***	***68.2***	***-20.1***
V	***5350.000***	***43.4***	***33***	***35.7***	***46.1***	***68.2***	***-22.1***
V	***15630.000***	***40.8***	***33***	***37.7***	***45.5***	***68.2***	***-22.7***
V	***19405.000***	***45.5***	***33***	***37.7***	***50.2***	***68.2***	***-18.0***
V	***20840.000***	***45.1***	***33***	***37.7***	***49.8***	***68.2***	***-18.4***
V	***31260.000***	***43.4***	***33***	***42.1***	***52.5***	***68.2***	***-15.7***
V	***36470.000***	***45.1***	***33***	***41.7***	***53.8***	***68.2***	***-14.4***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***45.4***	***33***	***35.7***	***48.1***	***54.0***	***-5.9***
V	***5350.000***	***43.4***	***33***	***35.7***	***46.1***	***54.0***	***-7.9***
V	***15630.000***	***40.8***	***33***	***37.7***	***45.5***	***54.0***	***-8.5***
V	***19405.000***	***45.5***	***33***	***37.7***	***50.2***	***54.0***	***-3.8***
V	***20840.000***	***45.1***	***33***	***37.7***	***49.8***	***54.0***	***-4.2***
V	***31260.000***	***43.4***	***33***	***42.1***	***52.5***	***54.0***	***-1.5***
V	***36470.000***	***45.1***	***33***	***41.7***	***53.8***	***54.0***	***-0.2***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 80MHz 5210MHz Ant 2

Table 55
IEEE 802.11ac (HT80, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***45.7***	***33***	***35.7***	***48.4***	***68.2***	***-19.8***
V	***5350.000***	***44.1***	***33***	***35.7***	***46.8***	***68.2***	***-21.4***
V	***15630.000***	***41.2***	***33***	***37.7***	***45.9***	***68.2***	***-22.3***
V	***19405.000***	***45.6***	***33***	***37.7***	***50.3***	***68.2***	***-17.9***
V	***20840.000***	***45.0***	***33***	***37.7***	***49.7***	***68.2***	***-18.5***
V	***31260.000***	***43.7***	***33***	***42.1***	***52.8***	***68.2***	***-15.4***
V	***36470.000***	***44.7***	***33***	***41.7***	***53.4***	***68.2***	***-14.8***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***45.7***	***33***	***35.7***	***48.4***	***54.0***	***-5.6***
V	***5350.000***	***44.1***	***33***	***35.7***	***46.8***	***54.0***	***-7.2***
V	***15630.000***	***41.2***	***33***	***37.7***	***45.9***	***54.0***	***-8.1***
V	***19405.000***	***45.6***	***33***	***37.7***	***50.3***	***54.0***	***-3.7***
V	***20840.000***	***45.0***	***33***	***37.7***	***49.7***	***54.0***	***-4.3***
V	***31260.000***	***43.7***	***33***	***42.1***	***52.8***	***54.0***	***-1.2***
V	***36470.000***	***44.7***	***33***	***41.7***	***53.4***	***54.0***	***-0.6***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 80MHz 5210MHz Ant 0+1+2

Table 56
IEEE 802.11ac (HT80, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***46.5***	***33***	***35.7***	***49.2***	***68.2***	***-19.0***
V	***5350.000***	***45.1***	***33***	***35.7***	***47.8***	***68.2***	***-20.4***
V	***15630.000***	***41.1***	***33***	***37.7***	***45.8***	***68.2***	***-22.4***
V	***19405.000***	***45.6***	***33***	***37.7***	***50.3***	***68.2***	***-17.9***
V	***20840.000***	***45.1***	***33***	***37.7***	***49.8***	***68.2***	***-18.4***
V	***31260.000***	***43.5***	***33***	***42.1***	***52.6***	***68.2***	***-15.6***
V	***36470.000***	***45.2***	***33***	***41.7***	***53.9***	***68.2***	***-14.3***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5150.000***	***46.5***	***33***	***35.7***	***49.2***	***54.0***	***-4.8***
V	***5350.000***	***45.1***	***33***	***35.7***	***47.8***	***54.0***	***-6.2***
V	***15630.000***	***41.1***	***33***	***37.7***	***45.8***	***54.0***	***-8.2***
V	***19405.000***	***45.6***	***33***	***37.7***	***50.3***	***54.0***	***-3.7***
V	***20840.000***	***45.1***	***33***	***37.7***	***49.8***	***54.0***	***-4.2***
V	***31260.000***	***43.5***	***33***	***42.1***	***52.6***	***54.0***	***-1.4***
V	***36470.000***	***45.2***	***33***	***41.7***	***53.9***	***54.0***	***-0.1***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: A Mode 5745MHz Ant 0

Table 57
IEEE 802.11A (OFDM, 6Mbps)

Radiated Emission Data

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***17235.000***	***42.3***	***33***	***37.6***	***46.9***	***68.2***	***-21.3***
V	***22980.000***	***45.4***	***33***	***38.3***	***50.7***	***68.2***	***-17.5***
V	***28725.000***	***45.5***	***33***	***40.1***	***52.6***	***68.2***	***-15.6***
H	***34470.000***	***45.4***	***33***	***41.1***	***53.5***	***68.2***	***-14.7***

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***17235.000***	***42.3***	***33***	***37.6***	***46.9***	***54.0***	***-7.1***
V	***22980.000***	***45.4***	***33***	***38.3***	***50.7***	***54.0***	***-3.3***
V	***28725.000***	***45.5***	***33***	***40.1***	***52.6***	***54.0***	***-1.4***
H	***34470.000***	***45.4***	***33***	***41.1***	***53.5***	***54.0***	***-0.5***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: A Mode 5785MHz Ant 0

Table 58
IEEE 802.11A (OFDM, 6Mbps)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***11570.000***	***37.8***	***33***	***40.5***	***45.3***	***68.2***	***-22.9***
V	***17355.000***	***41.5***	***33***	***37.6***	***46.1***	***68.2***	***-22.1***
V	***23140.000***	***44.6***	***33***	***38.6***	***50.2***	***68.2***	***-18.0***
V	***28925.000***	***45.7***	***33***	***40.1***	***52.8***	***68.2***	***-15.4***
V	***34710.000***	***45.3***	***33***	***41.3***	***53.6***	***68.2***	***-14.6***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***11570.000***	***37.8***	***33***	***40.5***	***45.3***	***54.0***	***-8.7***
V	***17355.000***	***41.5***	***33***	***37.6***	***46.1***	***54.0***	***-7.9***
V	***23140.000***	***44.6***	***33***	***38.6***	***50.2***	***54.0***	***-3.8***
V	***28925.000***	***45.7***	***33***	***40.1***	***52.8***	***54.0***	***-1.2***
V	***34710.000***	***45.3***	***33***	***41.3***	***53.6***	***54.0***	***-0.4***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: A Mode 5825MHz Ant 0

Table 59
IEEE 802.11A (OFDM, 6Mbps)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***11650.000***	***38.3***	***33***	***40.5***	***45.8***	***68.2***	***-22.4***
V	***17475.000***	***41.6***	***33***	***37.6***	***46.2***	***68.2***	***-22.0***
V	***23300.000***	***44.7***	***33***	***38.6***	***50.3***	***68.2***	***-17.9***
V	***29125.000***	***45.8***	***33***	***40.0***	***52.8***	***68.2***	***-15.4***
H	***34950.000***	***45.5***	***33***	***41.3***	***53.8***	***68.2***	***-14.4***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***11650.000***	***38.3***	***33***	***40.5***	***45.8***	***54.0***	***-8.2***
V	***17475.000***	***41.6***	***33***	***37.6***	***46.2***	***54.0***	***-7.8***
V	***23300.000***	***44.7***	***33***	***38.6***	***50.3***	***54.0***	***-3.7***
V	***29125.000***	***45.8***	***33***	***40.0***	***52.8***	***54.0***	***-1.2***
H	***34950.000***	***45.5***	***33***	***41.3***	***53.8***	***54.0***	***-0.2***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

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Mode: A Mode 5745MHz Ant 1

Table 60
IEEE 802.11A (OFDM, 6 Mbps)

Radiated Emission Data

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***17235.000***	***41.8***	***33***	***37.6***	***46.4***	***68.2***	***-21.8***
V	***22980.000***	***45.1***	***33***	***38.3***	***50.4***	***68.2***	***-17.8***
V	***28725.000***	***45.0***	***33***	***40.1***	***52.1***	***68.2***	***-16.1***
H	***34470.000***	***45.1***	***33***	***41.1***	***53.2***	***68.2***	***-15.0***

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***17235.000***	***41.8***	***33***	***37.6***	***46.4***	***54.0***	***-7.6***
V	***22980.000***	***45.1***	***33***	***38.3***	***50.4***	***54.0***	***-3.6***
V	***28725.000***	***45.0***	***33***	***40.1***	***52.1***	***54.0***	***-1.9***
H	***34470.000***	***45.1***	***33***	***41.1***	***53.2***	***54.0***	***-0.8***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: A Mode 5785MHz Ant 1

Table 61
IEEE 802.11A (OFDM, 6 Mbps)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***11570.000***	***37.8***	***33***	***40.5***	***45.3***	***68.2***	***-22.9***
V	***17355.000***	***41.4***	***33***	***37.6***	***46.0***	***68.2***	***-22.2***
V	***23140.000***	***44.6***	***33***	***38.6***	***50.2***	***68.2***	***-18.0***
V	***28925.000***	***45.4***	***33***	***40.1***	***52.5***	***68.2***	***-15.7***
V	***34710.000***	***44.8***	***33***	***41.3***	***53.1***	***68.2***	***-15.1***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***11570.000***	***37.8***	***33***	***40.5***	***45.3***	***54.0***	***-8.7***
V	***17355.000***	***41.4***	***33***	***37.6***	***46.0***	***54.0***	***-8.0***
V	***23140.000***	***44.6***	***33***	***38.6***	***50.2***	***54.0***	***-3.8***
V	***28925.000***	***45.4***	***33***	***40.1***	***52.5***	***54.0***	***-1.5***
V	***34710.000***	***44.8***	***33***	***41.3***	***53.1***	***54.0***	***-0.9***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: A Mode 5825MHz Ant 1

Table 62
IEEE 802.11A (OFDM, 6 Mbps)

Radiated Emission Data

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***17475.000***	***41.6***	***33***	***37.6***	***46.2***	***68.2***	***-22.0***
V	***23300.000***	***45.0***	***33***	***38.6***	***50.6***	***68.2***	***-17.6***
V	***29125.000***	***45.9***	***33***	***40.0***	***52.9***	***68.2***	***-15.3***
H	***34950.000***	***45.3***	***33***	***41.3***	***53.6***	***68.2***	***-14.6***

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***17475.000***	***41.6***	***33***	***37.6***	***46.2***	***54.0***	***-7.8***
V	***23300.000***	***45.0***	***33***	***38.6***	***50.6***	***54.0***	***-3.4***
V	***29125.000***	***45.9***	***33***	***40.0***	***52.9***	***54.0***	***-1.1***
H	***34950.000***	***45.3***	***33***	***41.3***	***53.6***	***54.0***	***-0.4***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: A Mode 5745MHz Ant 2

Table 63
IEEE 802.11A (OFDM, 6 Mbps)

Radiated Emission Data

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***17235.000***	***41.5***	***33***	***37.6***	***46.1***	***68.2***	***-22.1***
V	***22980.000***	***45.1***	***33***	***38.3***	***50.4***	***68.2***	***-17.8***
V	***28725.000***	***45.8***	***33***	***40.1***	***52.9***	***68.2***	***-15.3***
H	***34470.000***	***45.3***	***33***	***41.1***	***53.4***	***68.2***	***-14.8***

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***17235.000***	***41.5***	***33***	***37.6***	***46.1***	***54.0***	***-7.9***
V	***22980.000***	***45.1***	***33***	***38.3***	***50.4***	***54.0***	***-3.6***
V	***28725.000***	***45.8***	***33***	***40.1***	***52.9***	***54.0***	***-1.1***
H	***34470.000***	***45.3***	***33***	***41.1***	***53.4***	***54.0***	***-0.6***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: A Mode 5785MHz Ant 2

Table 64
IEEE 802.11A (OFDM, 6 Mbps)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***11570.000***	***37.7***	***33***	***40.5***	***45.2***	***68.2***	***-23.0***
V	***17355.000***	***42.0***	***33***	***37.6***	***46.6***	***68.2***	***-21.6***
V	***23140.000***	***44.8***	***33***	***38.6***	***50.4***	***68.2***	***-17.8***
V	***28925.000***	***45.4***	***33***	***40.1***	***52.5***	***68.2***	***-15.7***
V	***34710.000***	***45.0***	***33***	***41.3***	***53.3***	***68.2***	***-14.9***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***11570.000***	***37.7***	***33***	***40.5***	***45.2***	***54.0***	***-8.8***
V	***17355.000***	***42.0***	***33***	***37.6***	***46.6***	***54.0***	***-7.4***
V	***23140.000***	***44.8***	***33***	***38.6***	***50.4***	***54.0***	***-3.6***
V	***28925.000***	***45.4***	***33***	***40.1***	***52.5***	***54.0***	***-1.5***
V	***34710.000***	***45.0***	***33***	***41.3***	***53.3***	***54.0***	***-0.7***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: A Mode 5825MHz Ant 2

Table 65
IEEE 802.11A (OFDM, 6 Mbps)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***11650.000***	***37.6***	***33***	***40.5***	***45.1***	***68.2***	***-23.1***
V	***17475.000***	***41.7***	***33***	***37.6***	***46.3***	***68.2***	***-21.9***
V	***23300.000***	***45.1***	***33***	***38.6***	***50.7***	***68.2***	***-17.5***
V	***29125.000***	***45.3***	***33***	***40.0***	***52.3***	***68.2***	***-15.9***
H	***34950.000***	***45.3***	***33***	***41.3***	***53.6***	***68.2***	***-14.6***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***11650.000***	***37.6***	***33***	***40.5***	***45.1***	***54.0***	***-8.9***
V	***17475.000***	***41.7***	***33***	***37.6***	***46.3***	***54.0***	***-7.7***
V	***23300.000***	***45.1***	***33***	***38.6***	***50.7***	***54.0***	***-3.3***
V	***29125.000***	***45.3***	***33***	***40.0***	***52.3***	***54.0***	***-1.7***
H	***34950.000***	***45.3***	***33***	***41.3***	***53.6***	***54.0***	***-0.4***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: A Mode 5745MHz Ant 0+1+2

Table 66
IEEE 802.11A (OFDM, 6Mbps)

Radiated Emission Data

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***17235.000***	***41.8***	***33***	***37.6***	***46.4***	***68.2***	***-21.8***
V	***22980.000***	***45.5***	***33***	***38.3***	***50.8***	***68.2***	***-17.4***
V	***28725.000***	***45.1***	***33***	***40.1***	***52.2***	***68.2***	***-16.0***
H	***34470.000***	***45.5***	***33***	***41.1***	***53.6***	***68.2***	***-14.6***

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***17235.000***	***41.8***	***33***	***37.6***	***46.4***	***54.0***	***-7.6***
V	***22980.000***	***45.5***	***33***	***38.3***	***50.8***	***54.0***	***-3.2***
V	***28725.000***	***45.1***	***33***	***40.1***	***52.2***	***54.0***	***-1.8***
H	***34470.000***	***45.5***	***33***	***41.1***	***53.6***	***54.0***	***-0.4***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: A Mode 5785MHz Ant 0+1+2

Table 67
IEEE 802.11A (OFDM, 6Mbps)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***11570.000***	***38.0***	***33***	***40.5***	***45.5***	***68.2***	***-22.7***
V	***17355.000***	***41.7***	***33***	***37.6***	***46.3***	***68.2***	***-21.9***
V	***23140.000***	***44.9***	***33***	***38.6***	***50.5***	***68.2***	***-17.7***
V	***28925.000***	***45.5***	***33***	***40.1***	***52.6***	***68.2***	***-15.6***
V	***34710.000***	***45.4***	***33***	***41.3***	***53.7***	***68.2***	***-14.5***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***11570.000***	***38.0***	***33***	***40.5***	***45.5***	***54.0***	***-8.5***
V	***17355.000***	***41.7***	***33***	***37.6***	***46.3***	***54.0***	***-7.7***
V	***23140.000***	***44.9***	***33***	***38.6***	***50.5***	***54.0***	***-3.5***
V	***28925.000***	***45.5***	***33***	***40.1***	***52.6***	***54.0***	***-1.4***
V	***34710.000***	***45.4***	***33***	***41.3***	***53.7***	***54.0***	***-0.3***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: A Mode 5825MHz Ant 0+1+2

Table 68
IEEE 802.11A (OFDM, 6Mbps)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***11650.000***	***37.8***	***33***	***40.5***	***45.3***	***68.2***	***-22.9***
V	***17475.000***	***42.1***	***33***	***37.6***	***46.7***	***68.2***	***-21.5***
V	***23300.000***	***44.8***	***33***	***38.6***	***50.4***	***68.2***	***-17.8***
V	***29125.000***	***45.5***	***33***	***40.0***	***52.5***	***68.2***	***-15.7***
H	***34950.000***	***45.5***	***33***	***41.3***	***53.8***	***68.2***	***-14.4***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***11650.000***	***37.8***	***33***	***40.5***	***45.3***	***54.0***	***-8.7***
V	***17475.000***	***42.1***	***33***	***37.6***	***46.7***	***54.0***	***-7.3***
V	***23300.000***	***44.8***	***33***	***38.6***	***50.4***	***54.0***	***-3.6***
V	***29125.000***	***45.5***	***33***	***40.0***	***52.5***	***54.0***	***-1.5***
H	***34950.000***	***45.5***	***33***	***41.3***	***53.8***	***54.0***	***-0.2***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: N Mode 20MHz 5745MHz Ant 0

Table 69
IEEE 802.11N (OFDM, HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***17235.000***	***42.0***	***33***	***37.6***	***46.6***	***68.2***	***-21.6***
V	***22980.000***	***45.5***	***33***	***38.3***	***50.8***	***68.2***	***-17.4***
V	***28725.000***	***45.2***	***33***	***40.1***	***52.3***	***68.2***	***-15.9***
H	***34470.000***	***45.5***	***33***	***41.1***	***53.6***	***68.2***	***-14.6***

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***17235.000***	***42.0***	***33***	***37.6***	***46.6***	***54.0***	***-7.4***
V	***22980.000***	***45.5***	***33***	***38.3***	***50.8***	***54.0***	***-3.2***
V	***28725.000***	***45.2***	***33***	***40.1***	***52.3***	***54.0***	***-1.7***
H	***34470.000***	***45.5***	***33***	***41.1***	***53.6***	***54.0***	***-0.4***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: N Mode 20MHz 5785MHz Ant 0

Table 70
IEEE 802.11N (OFDM, HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***11570.000***	***37.6***	***33***	***40.5***	***45.1***	***68.2***	***-23.1***
V	***17355.000***	***41.6***	***33***	***37.6***	***46.2***	***68.2***	***-22.0***
V	***23140.000***	***44.8***	***33***	***38.6***	***50.4***	***68.2***	***-17.8***
V	***28925.000***	***45.4***	***33***	***40.1***	***52.5***	***68.2***	***-15.7***
V	***34710.000***	***44.9***	***33***	***41.3***	***53.2***	***68.2***	***-15.0***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***11570.000***	***37.6***	***33***	***40.5***	***45.1***	***54.0***	***-8.9***
V	***17355.000***	***41.6***	***33***	***37.6***	***46.2***	***54.0***	***-7.8***
V	***23140.000***	***44.8***	***33***	***38.6***	***50.4***	***54.0***	***-3.6***
V	***28925.000***	***45.4***	***33***	***40.1***	***52.5***	***54.0***	***-1.5***
V	***34710.000***	***44.9***	***33***	***41.3***	***53.2***	***54.0***	***-0.8***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: N Mode 20MHz 5825MHz Ant 0

Table 71
IEEE 802.11N (OFDM, HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***11650.000***	***37.8***	***33***	***40.5***	***45.3***	***68.2***	***-22.9***
V	***17475.000***	***42.0***	***33***	***37.6***	***46.6***	***68.2***	***-21.6***
V	***23300.000***	***44.6***	***33***	***38.6***	***50.2***	***68.2***	***-18.0***
V	***29125.000***	***45.1***	***33***	***40.0***	***52.1***	***68.2***	***-16.1***
H	***34950.000***	***45.6***	***33***	***41.3***	***53.9***	***68.2***	***-14.3***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***11650.000***	***37.8***	***33***	***40.5***	***45.3***	***54.0***	***-8.7***
V	***17475.000***	***42.0***	***33***	***37.6***	***46.6***	***54.0***	***-7.4***
V	***23300.000***	***44.6***	***33***	***38.6***	***50.2***	***54.0***	***-3.8***
V	***29125.000***	***45.1***	***33***	***40.0***	***52.1***	***54.0***	***-1.9***
H	***34950.000***	***45.6***	***33***	***41.3***	***53.9***	***54.0***	***-0.1***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: N Mode 20MHz 5745MHz Ant 1

Table 72
IEEE 802.11N (OFDM, HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***17235.000***	***42.0***	***33***	***37.6***	***46.6***	***68.2***	***-21.6***
V	***22980.000***	***45.5***	***33***	***38.3***	***50.8***	***68.2***	***-17.4***
V	***28725.000***	***45.4***	***33***	***40.1***	***52.5***	***68.2***	***-15.7***
H	***34470.000***	***45.4***	***33***	***41.1***	***53.5***	***68.2***	***-14.7***

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***17235.000***	***42.0***	***33***	***37.6***	***46.6***	***54.0***	***-7.4***
V	***22980.000***	***45.5***	***33***	***38.3***	***50.8***	***54.0***	***-3.2***
V	***28725.000***	***45.4***	***33***	***40.1***	***52.5***	***54.0***	***-1.5***
H	***34470.000***	***45.4***	***33***	***41.1***	***53.5***	***54.0***	***-0.5***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: N Mode 20MHz 5785MHz Ant 1

Table 73
IEEE 802.11N (OFDM, HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***11570.000***	***37.6***	***33***	***40.5***	***45.1***	***68.2***	***-23.1***
V	***17355.000***	***42.0***	***33***	***37.6***	***46.6***	***68.2***	***-21.6***
V	***23140.000***	***45.2***	***33***	***38.6***	***50.8***	***68.2***	***-17.4***
V	***28925.000***	***45.3***	***33***	***40.1***	***52.4***	***68.2***	***-15.8***
V	***34710.000***	***45.0***	***33***	***41.3***	***53.3***	***68.2***	***-14.9***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***11570.000***	***37.6***	***33***	***40.5***	***45.1***	***54.0***	***-8.9***
V	***17355.000***	***42.0***	***33***	***37.6***	***46.6***	***54.0***	***-7.4***
V	***23140.000***	***45.2***	***33***	***38.6***	***50.8***	***54.0***	***-3.2***
V	***28925.000***	***45.3***	***33***	***40.1***	***52.4***	***54.0***	***-1.6***
V	***34710.000***	***45.0***	***33***	***41.3***	***53.3***	***54.0***	***-0.7***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: N Mode 20MHz 5825MHz Ant 1

Table 74
IEEE 802.11N (OFDM, HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***11650.000***	***37.8***	***33***	***40.5***	***45.3***	***68.2***	***-22.9***
V	***17475.000***	***42.1***	***33***	***37.6***	***46.7***	***68.2***	***-21.5***
V	***23300.000***	***45.3***	***33***	***38.6***	***50.9***	***68.2***	***-17.3***
V	***29125.000***	***45.4***	***33***	***40.0***	***52.4***	***68.2***	***-15.8***
H	***34950.000***	***44.9***	***33***	***41.3***	***53.2***	***68.2***	***-15.0***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***11650.000***	***37.8***	***33***	***40.5***	***45.3***	***54.0***	***-8.7***
V	***17475.000***	***42.1***	***33***	***37.6***	***46.7***	***54.0***	***-7.3***
V	***23300.000***	***45.3***	***33***	***38.6***	***50.9***	***54.0***	***-3.1***
V	***29125.000***	***45.4***	***33***	***40.0***	***52.4***	***54.0***	***-1.6***
H	***34950.000***	***44.9***	***33***	***41.3***	***53.2***	***54.0***	***-0.8***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: N Mode 20MHz 5745MHz Ant 2

Table 75
IEEE 802.11N (OFDM, HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***17235.000***	***41.9***	***33***	***37.6***	***46.5***	***68.2***	***-21.7***
V	***22980.000***	***45.5***	***33***	***38.3***	***50.8***	***68.2***	***-17.4***
V	***28725.000***	***45.4***	***33***	***40.1***	***52.5***	***68.2***	***-15.7***
H	***34470.000***	***45.6***	***33***	***41.1***	***53.7***	***68.2***	***-14.5***

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***17235.000***	***41.9***	***33***	***37.6***	***46.5***	***54.0***	***-7.5***
V	***22980.000***	***45.5***	***33***	***38.3***	***50.8***	***54.0***	***-3.2***
V	***28725.000***	***45.4***	***33***	***40.1***	***52.5***	***54.0***	***-1.5***
H	***34470.000***	***45.6***	***33***	***41.1***	***53.7***	***54.0***	***-0.3***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: N Mode 20MHz 5785MHz Ant 2

Table 76
IEEE 802.11N (OFDM, HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***11570.000***	***37.8***	***33***	***40.5***	***45.3***	***68.2***	***-22.9***
V	***17355.000***	***41.9***	***33***	***37.6***	***46.5***	***68.2***	***-21.7***
V	***23140.000***	***44.5***	***33***	***38.6***	***50.1***	***68.2***	***-18.1***
V	***28925.000***	***45.2***	***33***	***40.1***	***52.3***	***68.2***	***-15.9***
V	***34710.000***	***44.9***	***33***	***41.3***	***53.2***	***68.2***	***-15.0***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***11570.000***	***37.8***	***33***	***40.5***	***45.3***	***54.0***	***-8.7***
V	***17355.000***	***41.9***	***33***	***37.6***	***46.5***	***54.0***	***-7.5***
V	***23140.000***	***44.5***	***33***	***38.6***	***50.1***	***54.0***	***-3.9***
V	***28925.000***	***45.2***	***33***	***40.1***	***52.3***	***54.0***	***-1.7***
V	***34710.000***	***44.9***	***33***	***41.3***	***53.2***	***54.0***	***-0.8***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: N Mode 20MHz 5825MHz Ant 2

Table 77
IEEE 802.11N (OFDM, HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***11650.000***	***37.6***	***33***	***40.5***	***45.1***	***68.2***	***-23.1***
V	***17475.000***	***42.1***	***33***	***37.6***	***46.7***	***68.2***	***-21.5***
V	***23300.000***	***45.1***	***33***	***38.6***	***50.7***	***68.2***	***-17.5***
V	***29125.000***	***45.4***	***33***	***40.0***	***52.4***	***68.2***	***-15.8***
H	***34950.000***	***44.8***	***33***	***41.3***	***53.1***	***68.2***	***-15.1***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***11650.000***	***37.6***	***33***	***40.5***	***45.1***	***54.0***	***-8.9***
V	***17475.000***	***42.1***	***33***	***37.6***	***46.7***	***54.0***	***-7.3***
V	***23300.000***	***45.1***	***33***	***38.6***	***50.7***	***54.0***	***-3.3***
V	***29125.000***	***45.4***	***33***	***40.0***	***52.4***	***54.0***	***-1.6***
H	***34950.000***	***44.8***	***33***	***41.3***	***53.1***	***54.0***	***-0.9***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
6. Horn antenna is used for the emission over 1000MHz.
7. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: N Mode 20MHz 5745MHz Ant 0+1+2

Table 78
IEEE 802.11N (OFDM, HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***17235.000***	***42.1***	***33***	***37.6***	***46.7***	***68.2***	***-21.5***
V	***22980.000***	***45.5***	***33***	***38.3***	***50.8***	***68.2***	***-17.4***
V	***28725.000***	***45.3***	***33***	***40.1***	***52.4***	***68.2***	***-15.8***
H	***34470.000***	***45.1***	***33***	***41.1***	***53.2***	***68.2***	***-15.0***

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***17235.000***	***42.1***	***33***	***37.6***	***46.7***	***54.0***	***-7.3***
V	***22980.000***	***45.5***	***33***	***38.3***	***50.8***	***54.0***	***-3.2***
V	***28725.000***	***45.3***	***33***	***40.1***	***52.4***	***54.0***	***-1.6***
H	***34470.000***	***45.1***	***33***	***41.1***	***53.2***	***54.0***	***-0.8***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: N Mode 20MHz 5785MHz Ant 0+1+2

Table 79
IEEE 802.11N (OFDM, HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***11570.000***	***37.6***	***33***	***40.5***	***45.1***	***68.2***	***-23.1***
V	***17355.000***	***42.0***	***33***	***37.6***	***46.6***	***68.2***	***-21.6***
V	***23140.000***	***45.3***	***33***	***38.6***	***50.9***	***68.2***	***-17.3***
V	***28925.000***	***45.7***	***33***	***40.1***	***52.8***	***68.2***	***-15.4***
V	***34710.000***	***45.4***	***33***	***41.3***	***53.7***	***68.2***	***-14.5***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***11570.000***	***37.6***	***33***	***40.5***	***45.1***	***54.0***	***-8.9***
V	***17355.000***	***42.0***	***33***	***37.6***	***46.6***	***54.0***	***-7.4***
V	***23140.000***	***45.3***	***33***	***38.6***	***50.9***	***54.0***	***-3.1***
V	***28925.000***	***45.7***	***33***	***40.1***	***52.8***	***54.0***	***-1.2***
V	***34710.000***	***45.4***	***33***	***41.3***	***53.7***	***54.0***	***-0.3***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: N Mode 20MHz 5825MHz Ant 0+1+2

Table 80
IEEE 802.11N (OFDM, HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***11650.000***	***37.8***	***33***	***40.5***	***45.3***	***68.2***	***-22.9***
V	***17475.000***	***41.8***	***33***	***37.6***	***46.4***	***68.2***	***-21.8***
V	***23300.000***	***44.8***	***33***	***38.6***	***50.4***	***68.2***	***-17.8***
V	***29125.000***	***45.2***	***33***	***40.0***	***52.2***	***68.2***	***-16.0***
H	***34950.000***	***44.8***	***33***	***41.3***	***53.1***	***68.2***	***-15.1***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***11650.000***	***37.8***	***33***	***40.5***	***45.3***	***54.0***	***-8.7***
V	***17475.000***	***41.8***	***33***	***37.6***	***46.4***	***54.0***	***-7.6***
V	***23300.000***	***44.8***	***33***	***38.6***	***50.4***	***54.0***	***-3.6***
V	***29125.000***	***45.2***	***33***	***40.0***	***52.2***	***54.0***	***-1.8***
H	***34950.000***	***44.8***	***33***	***41.3***	***53.1***	***54.0***	***-0.9***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: N Mode 40MHz 5755MHz Ant 0

Table 81
IEEE 802.11N (OFDM, HT40, MCS0)

Radiated Emission Data

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***17625.000***	***41.3***	***33***	***37.5***	***45.8***	***68.2***	***-22.4***
V	***23020.000***	***43.7***	***33***	***38.6***	***49.3***	***68.2***	***-18.9***
V	***28775.000***	***40.9***	***33***	***40.1***	***48.0***	***68.2***	***-20.2***
H	***34530.000***	***43.8***	***33***	***41.3***	***52.1***	***68.2***	***-16.1***

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***17625.000***	***41.3***	***33***	***37.5***	***45.8***	***54.0***	***-8.2***
V	***23020.000***	***43.7***	***33***	***38.6***	***49.3***	***54.0***	***-4.7***
V	***28775.000***	***40.9***	***33***	***40.1***	***48.0***	***54.0***	***-6.0***
H	***34530.000***	***43.8***	***33***	***41.3***	***52.1***	***54.0***	***-1.9***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: N Mode 40MHz 5795MHz Ant 0

Table 82
IEEE 802.11N (OFDM, HT40, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***11590.000***	***36.7***	***33***	***40.5***	***44.2***	***68.2***	***-24.0***
V	***17385.000***	***40.5***	***33***	***37.6***	***45.1***	***68.2***	***-23.1***
V	***23180.000***	***44.0***	***33***	***38.6***	***49.6***	***68.2***	***-18.6***
V	***28975.000***	***41.7***	***33***	***40.1***	***48.8***	***68.2***	***-19.4***
H	***34770.000***	***44.0***	***33***	***41.3***	***52.3***	***68.2***	***-15.9***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***11590.000***	***36.7***	***33***	***40.5***	***44.2***	***54.0***	***-9.8***
V	***17385.000***	***40.5***	***33***	***37.6***	***45.1***	***54.0***	***-8.9***
V	***23180.000***	***44.0***	***33***	***38.6***	***49.6***	***54.0***	***-4.4***
V	***28975.000***	***41.7***	***33***	***40.1***	***48.8***	***54.0***	***-5.2***
H	***34770.000***	***44.0***	***33***	***41.3***	***52.3***	***54.0***	***-1.7***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: N Mode 40MHz 5755MHz Ant 1

Table 83
IEEE 802.11N (OFDM, HT40, MCS0)

Radiated Emission Data

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***17625.000***	***41.2***	***33***	***37.5***	***45.7***	***68.2***	***-22.5***
V	***23020.000***	***44.2***	***33***	***38.6***	***49.8***	***68.2***	***-18.4***
V	***28775.000***	***41.2***	***33***	***40.1***	***48.3***	***68.2***	***-19.9***
H	***34530.000***	***44.3***	***33***	***41.3***	***52.6***	***68.2***	***-15.6***

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***17625.000***	***41.2***	***33***	***37.5***	***45.7***	***54.0***	***-8.3***
V	***23020.000***	***44.2***	***33***	***38.6***	***49.8***	***54.0***	***-4.2***
V	***28775.000***	***41.2***	***33***	***40.1***	***48.3***	***54.0***	***-5.7***
H	***34530.000***	***44.3***	***33***	***41.3***	***52.6***	***54.0***	***-1.4***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: N Mode 40MHz 5795MHz Ant 1

Table 84
IEEE 802.11N (OFDM, HT40, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***11590.000***	***36.8***	***33***	***40.5***	***44.3***	***68.2***	***-23.9***
V	***17385.000***	***41.0***	***33***	***37.6***	***45.6***	***68.2***	***-22.6***
V	***23180.000***	***44.2***	***33***	***38.6***	***49.8***	***68.2***	***-18.4***
V	***28975.000***	***41.0***	***33***	***40.1***	***48.1***	***68.2***	***-20.1***
H	***34770.000***	***44.0***	***33***	***41.3***	***52.3***	***68.2***	***-15.9***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***11590.000***	***36.8***	***33***	***40.5***	***44.3***	***54.0***	***-9.7***
V	***17385.000***	***41.0***	***33***	***37.6***	***45.6***	***54.0***	***-8.4***
V	***23180.000***	***44.2***	***33***	***38.6***	***49.8***	***54.0***	***-4.2***
V	***28975.000***	***41.0***	***33***	***40.1***	***48.1***	***54.0***	***-5.9***
H	***34770.000***	***44.0***	***33***	***41.3***	***52.3***	***54.0***	***-1.7***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: N Mode 40MHz 5755MHz Ant 2

Table 85
IEEE 802.11N (OFDM, HT40, MCS0)

Radiated Emission Data

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***17625.000***	***41.2***	***33***	***37.5***	***45.7***	***68.2***	***-22.5***
V	***23020.000***	***44.0***	***33***	***38.6***	***49.6***	***68.2***	***-18.6***
V	***28775.000***	***41.2***	***33***	***40.1***	***48.3***	***68.2***	***-19.9***
H	***34530.000***	***43.9***	***33***	***41.3***	***52.2***	***68.2***	***-16.0***

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***17625.000***	***41.2***	***33***	***37.5***	***45.7***	***54.0***	***-8.3***
V	***23020.000***	***44.0***	***33***	***38.6***	***49.6***	***54.0***	***-4.4***
V	***28775.000***	***41.2***	***33***	***40.1***	***48.3***	***54.0***	***-5.7***
H	***34530.000***	***43.9***	***33***	***41.3***	***52.2***	***54.0***	***-1.8***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: N Mode 40MHz 5795MHz Ant 2

Table 86
IEEE 802.11N (OFDM, HT40, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***11590.000***	***36.8***	***33***	***40.5***	***44.3***	***68.2***	***-23.9***
V	***17385.000***	***40.9***	***33***	***37.6***	***45.5***	***68.2***	***-22.7***
V	***23180.000***	***43.7***	***33***	***38.6***	***49.3***	***68.2***	***-18.9***
V	***28975.000***	***41.1***	***33***	***40.1***	***48.2***	***68.2***	***-20.0***
H	***34770.000***	***44.3***	***33***	***41.3***	***52.6***	***68.2***	***-15.6***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***11590.000***	***36.8***	***33***	***40.5***	***44.3***	***54.0***	***-9.7***
V	***17385.000***	***40.9***	***33***	***37.6***	***45.5***	***54.0***	***-8.5***
V	***23180.000***	***43.7***	***33***	***38.6***	***49.3***	***54.0***	***-4.7***
V	***28975.000***	***41.1***	***33***	***40.1***	***48.2***	***54.0***	***-5.8***
H	***34770.000***	***44.3***	***33***	***41.3***	***52.6***	***54.0***	***-1.4***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: N Mode 40MHz 5755MHz Ant 0+1+2

Table 87
IEEE 802.11N (OFDM, HT40, MCS0)

Radiated Emission Data

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***17625.000***	***40.9***	***33***	***37.5***	***45.4***	***68.2***	***-22.8***
V	***23020.000***	***44.0***	***33***	***38.6***	***49.6***	***68.2***	***-18.6***
V	***28775.000***	***41.1***	***33***	***40.1***	***48.2***	***68.2***	***-20.0***
H	***34530.000***	***44.4***	***33***	***41.3***	***52.7***	***68.2***	***-15.5***

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***17625.000***	***40.9***	***33***	***37.5***	***45.4***	***54.0***	***-8.6***
V	***23020.000***	***44.0***	***33***	***38.6***	***49.6***	***54.0***	***-4.4***
V	***28775.000***	***41.1***	***33***	***40.1***	***48.2***	***54.0***	***-5.8***
H	***34530.000***	***44.4***	***33***	***41.3***	***52.7***	***54.0***	***-1.3***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: N Mode 40MHz 5795MHz Ant 0+1+2

Table 88
IEEE 802.11N (OFDM, HT40, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***11590.000***	***36.7***	***33***	***40.5***	***44.2***	***68.2***	***-24.0***
V	***17385.000***	***40.8***	***33***	***37.6***	***45.4***	***68.2***	***-22.8***
V	***23180.000***	***43.5***	***33***	***38.6***	***49.1***	***68.2***	***-19.1***
V	***28975.000***	***41.1***	***33***	***40.1***	***48.2***	***68.2***	***-20.0***
H	***34770.000***	***44.5***	***33***	***41.3***	***52.8***	***68.2***	***-15.4***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***11590.000***	***36.7***	***33***	***40.5***	***44.2***	***54.0***	***-9.8***
V	***17385.000***	***40.8***	***33***	***37.6***	***45.4***	***54.0***	***-8.6***
V	***23180.000***	***43.5***	***33***	***38.6***	***49.1***	***54.0***	***-4.9***
V	***28975.000***	***41.1***	***33***	***40.1***	***48.2***	***54.0***	***-5.8***
H	***34770.000***	***44.5***	***33***	***41.3***	***52.8***	***54.0***	***-1.2***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 20MHz 5745MHz Ant 0

Table 89
IEEE 802.11AC (OFDM, HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***17235.000***	***41.6***	***33***	***37.6***	***46.2***	***68.2***	***-22.0***
V	***22980.000***	***45.4***	***33***	***38.3***	***50.7***	***68.2***	***-17.5***
V	***28725.000***	***45.2***	***33***	***40.1***	***52.3***	***68.2***	***-15.9***
H	***34470.000***	***45.1***	***33***	***41.1***	***53.2***	***68.2***	***-15.0***

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***17235.000***	***41.6***	***33***	***37.6***	***46.2***	***54.0***	***-7.8***
V	***22980.000***	***45.4***	***33***	***38.3***	***50.7***	***54.0***	***-3.3***
V	***28725.000***	***45.2***	***33***	***40.1***	***52.3***	***54.0***	***-1.7***
H	***34470.000***	***45.1***	***33***	***41.1***	***53.2***	***54.0***	***-0.8***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 20MHz 5785MHz Ant 0

Table 90
IEEE 802.11AC (OFDM, HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***11570.000***	***37.6***	***33***	***40.5***	***45.1***	***68.2***	***-23.1***
V	***17355.000***	***41.8***	***33***	***37.6***	***46.4***	***68.2***	***-21.8***
V	***23140.000***	***45.2***	***33***	***38.6***	***50.8***	***68.2***	***-17.4***
V	***28925.000***	***45.2***	***33***	***40.1***	***52.3***	***68.2***	***-15.9***
V	***34710.000***	***45.6***	***33***	***41.3***	***53.9***	***68.2***	***-14.3***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***11570.000***	***37.6***	***33***	***40.5***	***45.1***	***54.0***	***-8.9***
V	***17355.000***	***41.8***	***33***	***37.6***	***46.4***	***54.0***	***-7.6***
V	***23140.000***	***45.2***	***33***	***38.6***	***50.8***	***54.0***	***-3.2***
V	***28925.000***	***45.2***	***33***	***40.1***	***52.3***	***54.0***	***-1.7***
V	***34710.000***	***45.6***	***33***	***41.3***	***53.9***	***54.0***	***-0.1***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 20MHz 5825MHz Ant 0

Table 91
IEEE 802.11AC (OFDM, HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***11650.000***	***37.7***	***33***	***40.5***	***45.2***	***68.2***	***-23.0***
V	***17475.000***	***41.8***	***33***	***37.6***	***46.4***	***68.2***	***-21.8***
V	***23300.000***	***45.0***	***33***	***38.6***	***50.6***	***68.2***	***-17.6***
V	***29125.000***	***45.4***	***33***	***40.0***	***52.4***	***68.2***	***-15.8***
H	***34950.000***	***45.4***	***33***	***41.3***	***53.7***	***68.2***	***-14.5***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***11650.000***	***37.7***	***33***	***40.5***	***45.2***	***54.0***	***-8.8***
V	***17475.000***	***41.8***	***33***	***37.6***	***46.4***	***54.0***	***-7.6***
V	***23300.000***	***45.0***	***33***	***38.6***	***50.6***	***54.0***	***-3.4***
V	***29125.000***	***45.4***	***33***	***40.0***	***52.4***	***54.0***	***-1.6***
H	***34950.000***	***45.4***	***33***	***41.3***	***53.7***	***54.0***	***-0.3***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 20MHz 5745MHz Ant 1

Table 92
IEEE 802.11AC (OFDM, HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***17235.000***	***41.6***	***33***	***37.6***	***46.2***	***68.2***	***-22.0***
V	***22980.000***	***45.4***	***33***	***38.3***	***50.7***	***68.2***	***-17.5***
V	***28725.000***	***45.2***	***33***	***40.1***	***52.3***	***68.2***	***-15.9***
H	***34470.000***	***45.1***	***33***	***41.1***	***53.2***	***68.2***	***-15.0***

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***17235.000***	***41.6***	***33***	***37.6***	***46.2***	***54.0***	***-7.8***
V	***22980.000***	***45.4***	***33***	***38.3***	***50.7***	***54.0***	***-3.3***
V	***28725.000***	***45.2***	***33***	***40.1***	***52.3***	***54.0***	***-1.7***
H	***34470.000***	***45.1***	***33***	***41.1***	***53.2***	***54.0***	***-0.8***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 20MHz 5785MHz Ant 1

Table 93
IEEE 802.11AC (OFDM, HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***11570.000***	***37.6***	***33***	***40.5***	***45.1***	***68.2***	***-23.1***
V	***17355.000***	***41.6***	***33***	***37.6***	***46.2***	***68.2***	***-22.0***
V	***23140.000***	***45.1***	***33***	***38.6***	***50.7***	***68.2***	***-17.5***
V	***28925.000***	***45.2***	***33***	***40.1***	***52.3***	***68.2***	***-15.9***
V	***34710.000***	***45.6***	***33***	***41.3***	***53.9***	***68.2***	***-14.3***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***11570.000***	***37.6***	***33***	***40.5***	***45.1***	***54.0***	***-8.9***
V	***17355.000***	***41.6***	***33***	***37.6***	***46.2***	***54.0***	***-7.8***
V	***23140.000***	***45.1***	***33***	***38.6***	***50.7***	***54.0***	***-3.3***
V	***28925.000***	***45.2***	***33***	***40.1***	***52.3***	***54.0***	***-1.7***
V	***34710.000***	***45.6***	***33***	***41.3***	***53.9***	***54.0***	***-0.1***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 20MHz 5825MHz Ant 1

Table 94
IEEE 802.11AC (OFDM, HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***11650.000***	***37.7***	***33***	***40.5***	***45.2***	***68.2***	***-23.0***
V	***17475.000***	***41.8***	***33***	***37.6***	***46.4***	***68.2***	***-21.8***
V	***23300.000***	***45.0***	***33***	***38.6***	***50.6***	***68.2***	***-17.6***
V	***29125.000***	***45.4***	***33***	***40.0***	***52.4***	***68.2***	***-15.8***
H	***34950.000***	***45.4***	***33***	***41.3***	***53.7***	***68.2***	***-14.5***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***11650.000***	***37.7***	***33***	***40.5***	***45.2***	***54.0***	***-8.8***
V	***17475.000***	***41.8***	***33***	***37.6***	***46.4***	***54.0***	***-7.6***
V	***23300.000***	***45.0***	***33***	***38.6***	***50.6***	***54.0***	***-3.4***
V	***29125.000***	***45.4***	***33***	***40.0***	***52.4***	***54.0***	***-1.6***
H	***34950.000***	***45.4***	***33***	***41.3***	***53.7***	***54.0***	***-0.3***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 20MHz 5745MHz Ant 2

Table 95
IEEE 802.11AC (OFDM, HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***17235.000***	***41.9***	***33***	***37.6***	***46.5***	***68.2***	***-21.7***
V	***22980.000***	***45.5***	***33***	***38.3***	***50.8***	***68.2***	***-17.4***
V	***28725.000***	***45.1***	***33***	***40.1***	***52.2***	***68.2***	***-16.0***
H	***34470.000***	***45.6***	***33***	***41.1***	***53.7***	***68.2***	***-14.5***

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***17235.000***	***41.9***	***33***	***37.6***	***46.5***	***54.0***	***-7.5***
V	***22980.000***	***45.5***	***33***	***38.3***	***50.8***	***54.0***	***-3.2***
V	***28725.000***	***45.1***	***33***	***40.1***	***52.2***	***54.0***	***-1.8***
H	***34470.000***	***45.6***	***33***	***41.1***	***53.7***	***54.0***	***-0.3***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 20MHz 5785MHz Ant 2

Table 96
IEEE 802.11AC (OFDM, HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***11570.000***	***37.8***	***33***	***40.5***	***45.3***	***68.2***	***-22.9***
V	***17355.000***	***41.6***	***33***	***37.6***	***46.2***	***68.2***	***-22.0***
V	***23140.000***	***44.8***	***33***	***38.6***	***50.4***	***68.2***	***-17.8***
V	***28925.000***	***45.1***	***33***	***40.1***	***52.2***	***68.2***	***-16.0***
V	***34710.000***	***45.4***	***33***	***41.3***	***53.7***	***68.2***	***-14.5***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***11570.000***	***37.8***	***33***	***40.5***	***45.3***	***54.0***	***-8.7***
V	***17355.000***	***41.6***	***33***	***37.6***	***46.2***	***54.0***	***-7.8***
V	***23140.000***	***44.8***	***33***	***38.6***	***50.4***	***54.0***	***-3.6***
V	***28925.000***	***45.1***	***33***	***40.1***	***52.2***	***54.0***	***-1.8***
V	***34710.000***	***45.4***	***33***	***41.3***	***53.7***	***54.0***	***-0.3***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 20MHz 5825MHz Ant 2

Table 97
IEEE 802.11AC (OFDM, HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***11650.000***	***37.8***	***33***	***40.5***	***45.3***	***68.2***	***-22.9***
V	***17475.000***	***41.8***	***33***	***37.6***	***46.4***	***68.2***	***-21.8***
V	***23300.000***	***45.0***	***33***	***38.6***	***50.6***	***68.2***	***-17.6***
V	***29125.000***	***45.7***	***33***	***40.0***	***52.7***	***68.2***	***-15.5***
H	***34950.000***	***45.0***	***33***	***41.3***	***53.3***	***68.2***	***-14.9***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***11650.000***	***37.8***	***33***	***40.5***	***45.3***	***54.0***	***-8.7***
V	***17475.000***	***41.8***	***33***	***37.6***	***46.4***	***54.0***	***-7.6***
V	***23300.000***	***45.0***	***33***	***38.6***	***50.6***	***54.0***	***-3.4***
V	***29125.000***	***45.7***	***33***	***40.0***	***52.7***	***54.0***	***-1.3***
H	***34950.000***	***45.0***	***33***	***41.3***	***53.3***	***54.0***	***-0.7***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 20MHz 5745MHz Ant 0+1+2

Table 98
IEEE 802.11AC (OFDM, HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***17235.000***	***42.1***	***33***	***37.6***	***46.7***	***68.2***	***-21.5***
V	***22980.000***	***45.1***	***33***	***38.3***	***50.4***	***68.2***	***-17.8***
V	***28725.000***	***45.0***	***33***	***40.1***	***52.1***	***68.2***	***-16.1***
H	***34470.000***	***45.6***	***33***	***41.1***	***53.7***	***68.2***	***-14.5***

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***17235.000***	***42.1***	***33***	***37.6***	***46.7***	***54.0***	***-7.3***
V	***22980.000***	***45.1***	***33***	***38.3***	***50.4***	***54.0***	***-3.6***
V	***28725.000***	***45.0***	***33***	***40.1***	***52.1***	***54.0***	***-1.9***
H	***34470.000***	***45.6***	***33***	***41.1***	***53.7***	***54.0***	***-0.3***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 20MHz 5785MHz Ant 0+1+2

Table 99
IEEE 802.11AC (OFDM, HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***11570.000***	***38.1***	***33***	***40.5***	***45.6***	***68.2***	***-22.6***
V	***17355.000***	***41.7***	***33***	***37.6***	***46.3***	***68.2***	***-21.9***
V	***23140.000***	***45.3***	***33***	***38.6***	***50.9***	***68.2***	***-17.3***
V	***28925.000***	***45.3***	***33***	***40.1***	***52.4***	***68.2***	***-15.8***
V	***34710.000***	***45.0***	***33***	***41.3***	***53.3***	***68.2***	***-14.9***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***11570.000***	***38.1***	***33***	***40.5***	***45.6***	***54.0***	***-8.4***
V	***17355.000***	***41.7***	***33***	***37.6***	***46.3***	***54.0***	***-7.7***
V	***23140.000***	***45.3***	***33***	***38.6***	***50.9***	***54.0***	***-3.1***
V	***28925.000***	***45.3***	***33***	***40.1***	***52.4***	***54.0***	***-1.6***
V	***34710.000***	***45.0***	***33***	***41.3***	***53.3***	***54.0***	***-0.7***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 20MHz 5825MHz Ant 0+1+2

Table 100
IEEE 802.11AC (OFDM, HT20, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***11650.000***	***37.8***	***33***	***40.5***	***45.3***	***68.2***	***-22.9***
V	***17475.000***	***41.9***	***33***	***37.6***	***46.5***	***68.2***	***-21.7***
V	***23300.000***	***45.1***	***33***	***38.6***	***50.7***	***68.2***	***-17.5***
V	***29125.000***	***45.6***	***33***	***40.0***	***52.6***	***68.2***	***-15.6***
H	***34950.000***	***44.9***	***33***	***41.3***	***53.2***	***68.2***	***-15.0***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***11650.000***	***37.8***	***33***	***40.5***	***45.3***	***54.0***	***-8.7***
V	***17475.000***	***41.9***	***33***	***37.6***	***46.5***	***54.0***	***-7.5***
V	***23300.000***	***45.1***	***33***	***38.6***	***50.7***	***54.0***	***-3.3***
V	***29125.000***	***45.6***	***33***	***40.0***	***52.6***	***54.0***	***-1.4***
H	***34950.000***	***44.9***	***33***	***41.3***	***53.2***	***54.0***	***-0.8***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 40MHz 5755MHz Ant 0

Table 101
IEEE 802.11AC (OFDM, HT40, MCS0)

Radiated Emission Data

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***17625.000***	***41.1***	***33***	***37.5***	***45.6***	***68.2***	***-22.6***
V	***23020.000***	***44.2***	***33***	***38.6***	***49.8***	***68.2***	***-18.4***
V	***28775.000***	***41.5***	***33***	***40.1***	***48.6***	***68.2***	***-19.6***
H	***34530.000***	***44.5***	***33***	***41.3***	***52.8***	***68.2***	***-15.4***

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***17625.000***	***41.1***	***33***	***37.5***	***45.6***	***54.0***	***-8.4***
V	***23020.000***	***44.2***	***33***	***38.6***	***49.8***	***54.0***	***-4.2***
V	***28775.000***	***41.5***	***33***	***40.1***	***48.6***	***54.0***	***-5.4***
H	***34530.000***	***44.5***	***33***	***41.3***	***52.8***	***54.0***	***-1.2***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 40MHz 5795MHz Ant 0

Table 102
IEEE 802.11AC (OFDM, HT40, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***11590.000***	***36.6***	***33***	***40.5***	***44.1***	***68.2***	***-24.1***
V	***17385.000***	***40.9***	***33***	***37.6***	***45.5***	***68.2***	***-22.7***
V	***23180.000***	***44.1***	***33***	***38.6***	***49.7***	***68.2***	***-18.5***
V	***28975.000***	***41.3***	***33***	***40.1***	***48.4***	***68.2***	***-19.8***
H	***34770.000***	***43.9***	***33***	***41.3***	***52.2***	***68.2***	***-16.0***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***11590.000***	***36.6***	***33***	***40.5***	***44.1***	***54.0***	***-9.9***
V	***17385.000***	***40.9***	***33***	***37.6***	***45.5***	***54.0***	***-8.5***
V	***23180.000***	***44.1***	***33***	***38.6***	***49.7***	***54.0***	***-4.3***
V	***28975.000***	***41.3***	***33***	***40.1***	***48.4***	***54.0***	***-5.6***
H	***34770.000***	***43.9***	***33***	***41.3***	***52.2***	***54.0***	***-1.8***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 40MHz 5755MHz Ant 1

Table 103
IEEE 802.11AC (OFDM, HT40, MCS0)

Radiated Emission Data

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***17625.000***	***41.3***	***33***	***37.5***	***45.8***	***68.2***	***-22.4***
V	***23020.000***	***43.6***	***33***	***38.6***	***49.2***	***68.2***	***-19.0***
V	***28775.000***	***41.6***	***33***	***40.1***	***48.7***	***68.2***	***-19.5***
H	***34530.000***	***44.2***	***33***	***41.3***	***52.5***	***68.2***	***-15.7***

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***17625.000***	***41.3***	***33***	***37.5***	***45.8***	***54.0***	***-8.2***
V	***23020.000***	***43.6***	***33***	***38.6***	***49.2***	***54.0***	***-4.8***
V	***28775.000***	***41.6***	***33***	***40.1***	***48.7***	***54.0***	***-5.3***
H	***34530.000***	***44.2***	***33***	***41.3***	***52.5***	***54.0***	***-1.5***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 40MHz 5795MHz Ant 1

Table 104
IEEE 802.11AC (OFDM, HT40, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***11590.000***	***36.6***	***33***	***40.5***	***44.1***	***68.2***	***-24.1***
V	***17385.000***	***41.1***	***33***	***37.6***	***45.7***	***68.2***	***-22.5***
V	***23180.000***	***43.9***	***33***	***38.6***	***49.5***	***68.2***	***-18.7***
V	***28975.000***	***41.2***	***33***	***40.1***	***48.3***	***68.2***	***-19.9***
H	***34770.000***	***44.5***	***33***	***41.3***	***52.8***	***68.2***	***-15.4***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***11590.000***	***36.6***	***33***	***40.5***	***44.1***	***54.0***	***-9.9***
V	***17385.000***	***41.1***	***33***	***37.6***	***45.7***	***54.0***	***-8.3***
V	***23180.000***	***43.9***	***33***	***38.6***	***49.5***	***54.0***	***-4.5***
V	***28975.000***	***41.2***	***33***	***40.1***	***48.3***	***54.0***	***-5.7***
H	***34770.000***	***44.5***	***33***	***41.3***	***52.8***	***54.0***	***-1.2***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 40MHz 5755MHz Ant 2

Table 105
IEEE 802.11AC (OFDM, HT40, MCS0)

Radiated Emission Data

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***17625.000***	***40.7***	***33***	***37.5***	***45.2***	***68.2***	***-23.0***
V	***23020.000***	***43.9***	***33***	***38.6***	***49.5***	***68.2***	***-18.7***
V	***28775.000***	***41.7***	***33***	***40.1***	***48.8***	***68.2***	***-19.4***
H	***34530.000***	***44.6***	***33***	***41.3***	***52.9***	***68.2***	***-15.3***

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***17625.000***	***40.7***	***33***	***37.5***	***45.2***	***54.0***	***-8.8***
V	***23020.000***	***43.9***	***33***	***38.6***	***49.5***	***54.0***	***-4.5***
V	***28775.000***	***41.7***	***33***	***40.1***	***48.8***	***54.0***	***-5.2***
H	***34530.000***	***44.6***	***33***	***41.3***	***52.9***	***54.0***	***-1.1***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 40MHz 5795MHz Ant 2

Table 106
IEEE 802.11AC (OFDM, HT40, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***11590.000***	***36.6***	***33***	***40.5***	***44.1***	***68.2***	***-24.1***
V	***17385.000***	***41.1***	***33***	***37.6***	***45.7***	***68.2***	***-22.5***
V	***23180.000***	***44.0***	***33***	***38.6***	***49.6***	***68.2***	***-18.6***
V	***28975.000***	***41.5***	***33***	***40.1***	***48.6***	***68.2***	***-19.6***
H	***34770.000***	***44.0***	***33***	***41.3***	***52.3***	***68.2***	***-15.9***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***11590.000***	***36.6***	***33***	***40.5***	***44.1***	***54.0***	***-9.9***
V	***17385.000***	***41.1***	***33***	***37.6***	***45.7***	***54.0***	***-8.3***
V	***23180.000***	***44.0***	***33***	***38.6***	***49.6***	***54.0***	***-4.4***
V	***28975.000***	***41.5***	***33***	***40.1***	***48.6***	***54.0***	***-5.4***
H	***34770.000***	***44.0***	***33***	***41.3***	***52.3***	***54.0***	***-1.7***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 40MHz 5755MHz Ant 0+1+2

Table 107
IEEE 802.11AC (OFDM, HT40, MCS0)

Radiated Emission Data

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***17625.000***	***41.4***	***33***	***37.5***	***45.9***	***68.2***	***-22.3***
V	***23020.000***	***43.9***	***33***	***38.6***	***49.5***	***68.2***	***-18.7***
V	***28775.000***	***41.0***	***33***	***40.1***	***48.1***	***68.2***	***-20.1***
H	***34530.000***	***44.2***	***33***	***41.3***	***52.5***	***68.2***	***-15.7***

Polari-zation	Frequency (MHz)	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***17625.000***	***41.4***	***33***	***37.5***	***45.9***	***54.0***	***-8.1***
V	***23020.000***	***43.9***	***33***	***38.6***	***49.5***	***54.0***	***-4.5***
V	***28775.000***	***41.0***	***33***	***40.1***	***48.1***	***54.0***	***-5.9***
H	***34530.000***	***44.2***	***33***	***41.3***	***52.5***	***54.0***	***-1.5***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 40MHz 5795MHz Ant 0+1+2

Table 108
IEEE 802.11AC (OFDM, HT40, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***11590.000***	***36.6***	***33***	***40.5***	***44.1***	***68.2***	***-24.1***
V	***17385.000***	***40.7***	***33***	***37.6***	***45.3***	***68.2***	***-22.9***
V	***23180.000***	***44.1***	***33***	***38.6***	***49.7***	***68.2***	***-18.5***
V	***28975.000***	***41.2***	***33***	***40.1***	***48.3***	***68.2***	***-19.9***
H	***34770.000***	***44.5***	***33***	***41.3***	***52.8***	***68.2***	***-15.4***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***11590.000***	***36.6***	***33***	***40.5***	***44.1***	***54.0***	***-9.9***
V	***17385.000***	***40.7***	***33***	***37.6***	***45.3***	***54.0***	***-8.7***
V	***23180.000***	***44.1***	***33***	***38.6***	***49.7***	***54.0***	***-4.3***
V	***28975.000***	***41.2***	***33***	***40.1***	***48.3***	***54.0***	***-5.7***
H	***34770.000***	***44.5***	***33***	***41.3***	***52.8***	***54.0***	***-1.2***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 80MHz 5775MHz Ant 0

Table 109
IEEE 802.11AC (OFDM, HT80, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5775.000***	***40.5***	***33***	***36.6***	***44.1***	***68.2***	***-24.1***
V	***11550.000***	***37.8***	***33***	***40.5***	***45.3***	***68.2***	***-22.9***
V	***17325.000***	***41.9***	***33***	***37.6***	***46.5***	***68.2***	***-21.7***
V	***23100.000***	***44.5***	***33***	***38.6***	***50.1***	***68.2***	***-18.1***
H	***28875.000***	***45.5***	***33***	***40.1***	***52.6***	***68.2***	***-15.6***
0	***34650.000***	***45.4***	***33***	***41.3***	***53.7***	***68.2***	***-14.5***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5775.000***	***40.5***	***33***	***36.6***	***44.1***	***54.0***	***-9.9***
V	***11550.000***	***37.8***	***33***	***40.5***	***45.3***	***54.0***	***-8.7***
V	***17325.000***	***41.9***	***33***	***37.6***	***46.5***	***54.0***	***-7.5***
V	***23100.000***	***44.5***	***33***	***38.6***	***50.1***	***54.0***	***-3.9***
H	***28875.000***	***45.5***	***33***	***40.1***	***52.6***	***54.0***	***-1.4***
0	***34650.000***	***45.4***	***33***	***41.3***	***53.7***	***54.0***	***-0.3***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 80MHz 5775MHz Ant 1

Table 110
IEEE 802.11AC (OFDM, HT80, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5775.000***	***40.5***	***33***	***36.6***	***44.1***	***68.2***	***-24.1***
V	***11550.000***	***37.7***	***33***	***40.5***	***45.2***	***68.2***	***-23.0***
V	***17325.000***	***41.9***	***33***	***37.6***	***46.5***	***68.2***	***-21.7***
V	***23100.000***	***44.7***	***33***	***38.6***	***50.3***	***68.2***	***-17.9***
H	***28875.000***	***45.4***	***33***	***40.1***	***52.5***	***68.2***	***-15.7***
0	***34650.000***	***44.9***	***33***	***41.3***	***53.2***	***68.2***	***-15.0***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5775.000***	***40.5***	***33***	***36.6***	***44.1***	***54.0***	***-9.9***
V	***11550.000***	***37.7***	***33***	***40.5***	***45.2***	***54.0***	***-8.8***
V	***17325.000***	***41.9***	***33***	***37.6***	***46.5***	***54.0***	***-7.5***
V	***23100.000***	***44.7***	***33***	***38.6***	***50.3***	***54.0***	***-3.7***
H	***28875.000***	***45.4***	***33***	***40.1***	***52.5***	***54.0***	***-1.5***
0	***34650.000***	***44.9***	***33***	***41.3***	***53.2***	***54.0***	***-0.8***

NOTES:
1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 80MHz 5775MHz Ant 2

Table 111
IEEE 802.11AC (OFDM, HT80, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5775.000***	***40.5***	***33***	***36.6***	***44.1***	***68.2***	***-24.1***
V	***11550.000***	***38.1***	***33***	***40.5***	***45.6***	***68.2***	***-22.6***
V	***17325.000***	***42.2***	***33***	***37.6***	***46.8***	***68.2***	***-21.4***
V	***23100.000***	***45.0***	***33***	***38.6***	***50.6***	***68.2***	***-17.6***
H	***28875.000***	***45.2***	***33***	***40.1***	***52.3***	***68.2***	***-15.9***
0	***34650.000***	***45.5***	***33***	***41.3***	***53.8***	***68.2***	***-14.4***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5775.000***	***40.5***	***33***	***36.6***	***44.1***	***54.0***	***-9.9***
V	***11550.000***	***38.1***	***33***	***40.5***	***45.6***	***54.0***	***-8.4***
V	***17325.000***	***42.2***	***33***	***37.6***	***46.8***	***54.0***	***-7.2***
V	***23100.000***	***45.0***	***33***	***38.6***	***50.6***	***54.0***	***-3.4***
H	***28875.000***	***45.2***	***33***	***40.1***	***52.3***	***54.0***	***-1.7***
0	***34650.000***	***45.5***	***33***	***41.3***	***53.8***	***54.0***	***-0.2***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Mode: AC Mode 80MHz 5775MHz Ant 0+1+2

Table 112
IEEE 802.11AC (OFDM, HT80, MCS0)

Radiated Emission Data

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Peak Limit at 3m (dBuV/m)	Margin (dB)
V	***5775.000***	***40.5***	***33***	***36.6***	***44.1***	***68.2***	***-24.1***
V	***11550.000***	***37.7***	***33***	***40.5***	***45.2***	***68.2***	***-23.0***
V	***17325.000***	***42.1***	***33***	***37.6***	***46.7***	***68.2***	***-21.5***
V	***23100.000***	***44.7***	***33***	***38.6***	***50.3***	***68.2***	***-17.9***
H	***28875.000***	***45.7***	***33***	***40.1***	***52.8***	***68.2***	***-15.4***
0	***34650.000***	***45.5***	***33***	***41.3***	***53.8***	***68.2***	***-14.4***

Polari-zation	Frequency	Reading (dBuV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBuV/m)	Average Limit at 3m (dBuV/m)	Margin (dB)
V	***5775.000***	***40.5***	***33***	***36.6***	***44.1***	***54.0***	***-9.9***
V	***11550.000***	***37.7***	***33***	***40.5***	***45.2***	***54.0***	***-8.8***
V	***17325.000***	***42.1***	***33***	***37.6***	***46.7***	***54.0***	***-7.3***
V	***23100.000***	***44.7***	***33***	***38.6***	***50.3***	***54.0***	***-3.7***
H	***28875.000***	***45.7***	***33***	***40.1***	***52.8***	***54.0***	***-1.2***
0	***34650.000***	***45.5***	***33***	***41.3***	***53.8***	***54.0***	***-0.2***

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 .
6. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
7. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.
8. Regarding to 15.407(b)(1)-(3) specifies that emissions outside of the respective U-NII bands are subject to a maximum emission limit (Peak) of -27 dBm/MHz.
   E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.
   Thus, the Peak limit for U-NII should be -27+95.2=68.2 dBuV/m.

Worst Case: EUT Transmitting

Table 113

Radiated Emission Data

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-amp (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)
H	31.668	41.6	16	10.0	35.6	40.0	-4.4
H	191.952	30.9	16	16.0	30.9	43.5	-12.6
H	***216.074***	***30.4***	***16***	***17.0***	***31.4***	***46.0***	***-14.6***
H	***288.068***	***32.6***	***16***	***22.0***	***38.6***	***46.0***	***-7.4***

NOTES: 1. Peak detector is used for the emission measurement.

2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

4. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205.

4.6.3 Transmitter Duty Cycle Calculation

Not applicable – No average factor is required.

4.7 AC Power Line Conducted Emission

☐ Not applicable – EUT is only powered by battery for operation.

☒ EUT connects to AC power line. Emission Data is listed in following pages.

☐ Base Unit connects to AC power line and has transmission. Handset connects to AC power line but has no transmission. Emission Data of Base Unit is listed in following pages.

4.7.1 AC Power Line Conducted Emission Configuration Photograph

Worst Case Line-Conducted Configuration
at

0.164 MHz

The worst case line conducted configuration photographs are attached in the Appendix and saved with filename: config photos.pdf

4.7.2 AC Power Line Conducted Emission Data

The plot(s) and data in the following pages list the significant emission frequencies, the limit and the margin of compliance

Passed by 6.0 dB margin compare with average limit

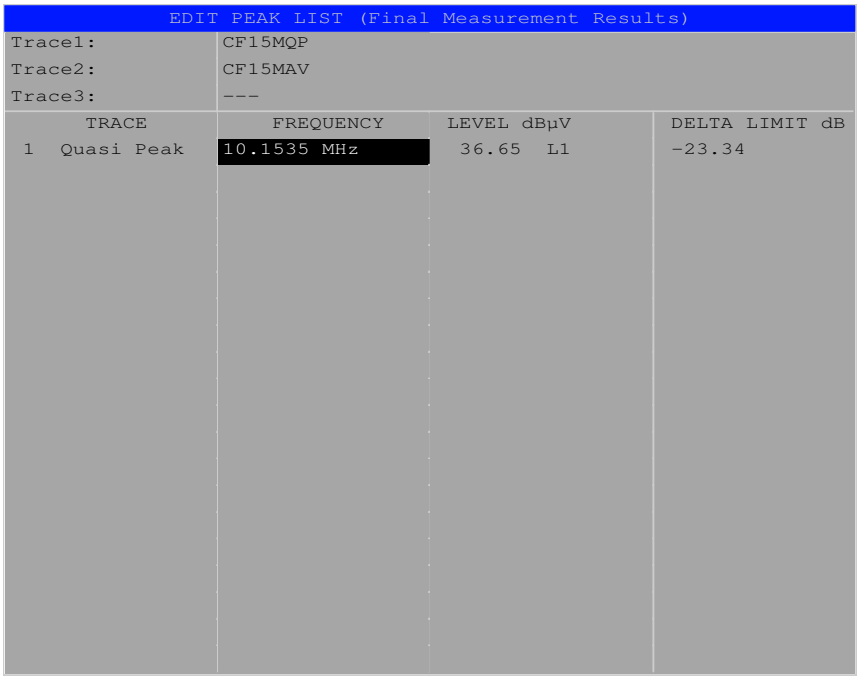
Worst Case: EUT Charging

EDIT PEAK LIST (Final Measurement Results)

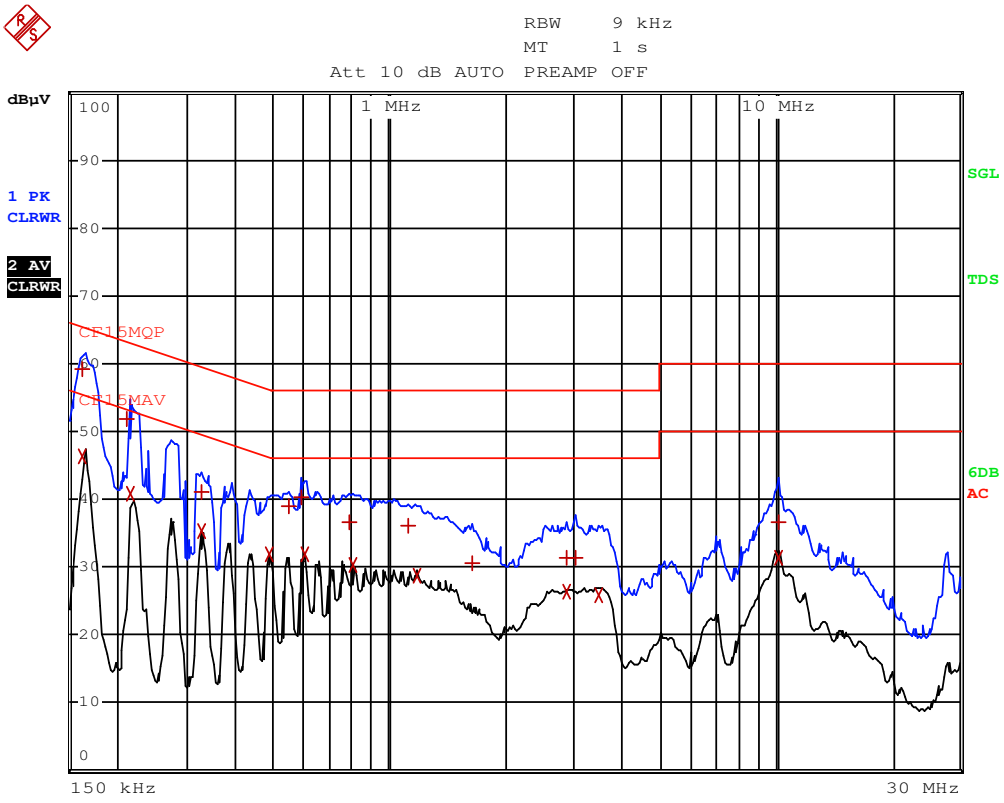
Trace1:	CF15MQP
Trace2:	CF15MAV
Trace3:	---

	TRACE	FREQUENCY	LEVEL dBµV		DELTA LIMIT dB
1	Quasi Peak	163.5 kHz	59.28	L1	-5.99
2	CISPR Average	163.5 kHz	46.33	L1	-8.95
1	Quasi Peak	213 kHz	51.86	L1	-11.22
2	CISPR Average	217.5 kHz	40.89	N	-12.01
1	Quasi Peak	325.5 kHz	41.17	N	-18.38
2	CISPR Average	325.5 kHz	35.35	L1	-14.21
2	CISPR Average	487.5 kHz	31.90	N	-14.30
1	Quasi Peak	546 kHz	39.01	L1	-16.98
1	Quasi Peak	591 kHz	40.15	L1	-15.84
2	CISPR Average	600 kHz	31.89	N	-14.11
1	Quasi Peak	789 kHz	36.62	L1	-19.37
2	CISPR Average	807 kHz	30.25	N	-15.74
1	Quasi Peak	1.113 MHz	36.15	L1	-19.84
2	CISPR Average	1.1805 MHz	28.68	L1	-17.31
1	Quasi Peak	1.644 MHz	30.50	N	-25.49
1	Quasi Peak	2.886 MHz	31.33	L1	-24.66
2	CISPR Average	2.886 MHz	26.30	N	-19.69
1	Quasi Peak	3.021 MHz	31.36	N	-24.63
2	CISPR Average	3.498 MHz	25.74	L1	-20.25
2	CISPR Average	10.131 MHz	31.30	N	-18.69

Worst Case: EUT Charging



Worst Case: EUT Transmitting



Date: 24.MAY.2016 16:30:27

4.8 Frequency Stability requirement

Frequency (MHz)	Mode	Measured Value (ppm) (0°C)	Measured Value (ppm) (10°C)	Measured Value (ppm) (20°C)	Measured Value (ppm) (30°C)	Measured Value (ppm) (40°C)	Measured Value (ppm) (50°C)
5180	A	0.804	0.952	4.054	4.102	3.840	3.700
5745		0.725	0.854	4.090	4.894	3.842	4.418
5180	NHT20	0.836	0.941	4.150	4.210	3.158	4.343
5745		0.870	0.942	3.887	4.841	3.415	4.148
5180	ACHT20	0.611	0.744	3.925	4.561	4.321	2.123
5745		0.899	0.815	3.713	4.123	4.897	1.886
5190	NHT40	0.257	0.325	4.110	3.846	3.841	2.505
5775		0.522	0.632	4.293	3.841	3.948	2.495
5190	ACHT40	0.257	0.325	4.303	3.987	3.158	1.862
5775		0.116	0.218	4.583	3.657	3.154	1.973
5210	ACHT80	1.280	1.382	3.071	2.948	2.978	2.047
5775		0.346	0.680	4.155	3.951	3.101	1.154

Temperature (°C)	Frequency (MHz)	Mode	Measured Value (ppm) 120VAC	Measured Value (ppm) 132VAC	Measured Value (ppm) 108VAC
20	5180	A	4.054	4.601	3.893
	5745		4.09	3.568	4.496
	5180	NHT20	4.15	4.427	4.15
	5745		3.887	4.206	3.771
	5180	ACHT20	3.925	4.118	4.311
	5745		3.713	4.322	3.278
	5190	NHT40	4.11	4.688	4.303
	5775		4.293	4.873	4.177
	5190	ACHT40	4.303	4.174	4.174
	5775		4.583	4.119	4.409
	5210	ACHT80	3.071	0.256	2.559
	5775		4.155	2.309	3.809

The Maximum value is +4.897ppm.
It is proved that the frequency stability such that an emission is maintained within the band of operation under all condition.

4.9 U-NII1 99% bandwidth requirement

For the case if a channel operating in U-NII 1 band has a 26-dB bandwidth that straddles into U-NII 2A band but its 99% occupied power bandwidth does not. For this rare case, DFS requirement does not apply.

The plots of U-NII1 99% bandwidth is saved with filename: UNII-1_99%.pdf proved that no further test for DFS.

EXHIBIT 5
EQUIPMENT LIST

5.0 **Equipment List**

1) Radiated Emissions Test

Equipment	EMI Test Receiver	Spectrum Analyzer	Biconical Antenna
Registration No.	EW-3156	EW-2188	EW-2512
Manufacturer	R&S	AGILENTTECH	EMCO
Model No.	ESR26	E4407B	3104C
Calibration Date	Nov. 03, 2015	Apr. 25, 2016	Jan 22, 2015
Calibration Due Date	Nov. 03, 2016	Apr. 25, 2017	Jul 22, 2016

Equipment	Log Periodic Antenna	Pyramidal Horn Antenna	Double Ridged Guide Antenna
Registration No.	EW-1042	EW-0905	EW-1133
Manufacturer	EMCO	EMCO	EMCO
Model No.	3148	3160-09	3115
Calibration Date	May 21, 2015	Feb. 12, 2016	Nov. 05, 2015
Calibration Due Date	Nov 21, 2016	Aug. 12, 2017	May 05, 2017

2) Conductive Measurement Test

Equipment	RF Power Meter with Power Sensor (N1921A)	Spectrum Analyzer
Registration No.	EW-2270	EW-2249
Manufacturer	AGILENTTECH	R&S
Model No.	N1911A	FSP30
Calibration Date	Jan. 19, 2016	Nov. 27, 2015
Calibration Due Date	Jan. 19, 2017	Nov. 27, 2016

3) Conducted Emissions Test

Equipment	EMI Test Receiver	LISN
Registration No.	EW-2500	EW-2501
Manufacturer	R&S	R&S
Model No.	ESCI	ENV-216
Calibration Date	Jan. 28, 2016	Jan. 28, 2016
Calibration Due Date	Jan. 28, 2017	Jan. 28, 2017

END OF TEST REPORT