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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:

Approved by:

Signed On File
Lee Shui Tim, Tim
Lead Engineer

Koo Wai Ip
Assistant Supervisor
November 08, 2016

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Intertek Testing Services Hong Kong Ltd.

2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong.
Tel: (852) 2173 8888 Fax: (852) 2785 5487 Website: www.hk.intertek-etlsemko.com

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GENERAL INFORMATION

| | |
|------------------------------------|---------------------------------------------------------------------------------------------|
| Applicant Name: | VTech Telecommunications Ltd. |
| Applicant Address: | 23/F., Tai Ping Industrial Centre, Block 1, 57 Ting Kok Road, Tai Po, Hong Kong. |
| Contact Person: | Michael Tsui |
| Tel: | (852)2680 5398 |
| Fax: | (852)2680 5252 |
| e-mail: | michael_tsui@vtech.com |
| 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% |

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**EXHIBIT 1
TEST RESULTS SUMMARY & STATEMENT OF COMPLIANCE**

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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

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**EXHIBIT 2
GENERAL DESCRIPTION**

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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.

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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.

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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).

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**EXHIBIT 3
SYSTEM TEST CONFIGURATION**

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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.

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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.

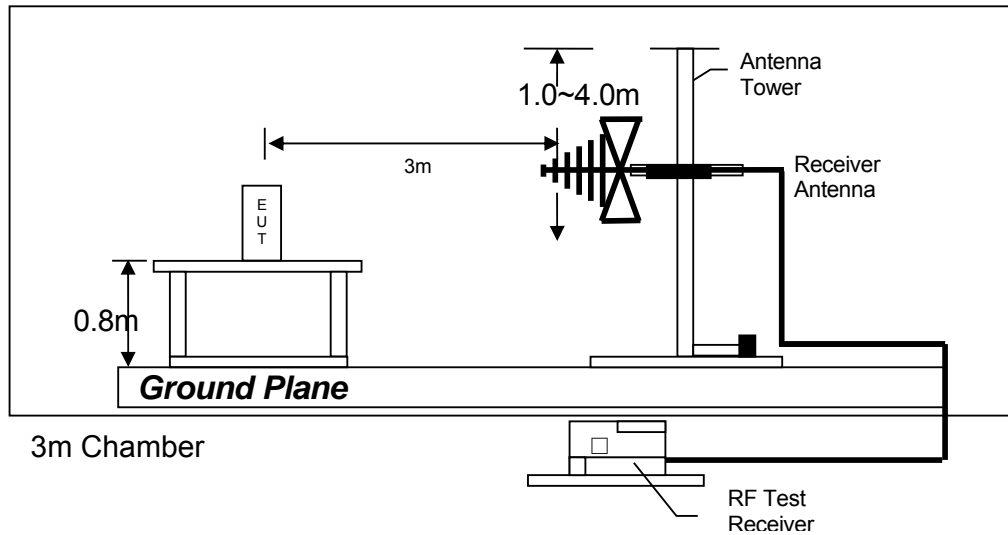
All connecting cables of EUT and peripherals were manipulated to find the maximum emission.

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.

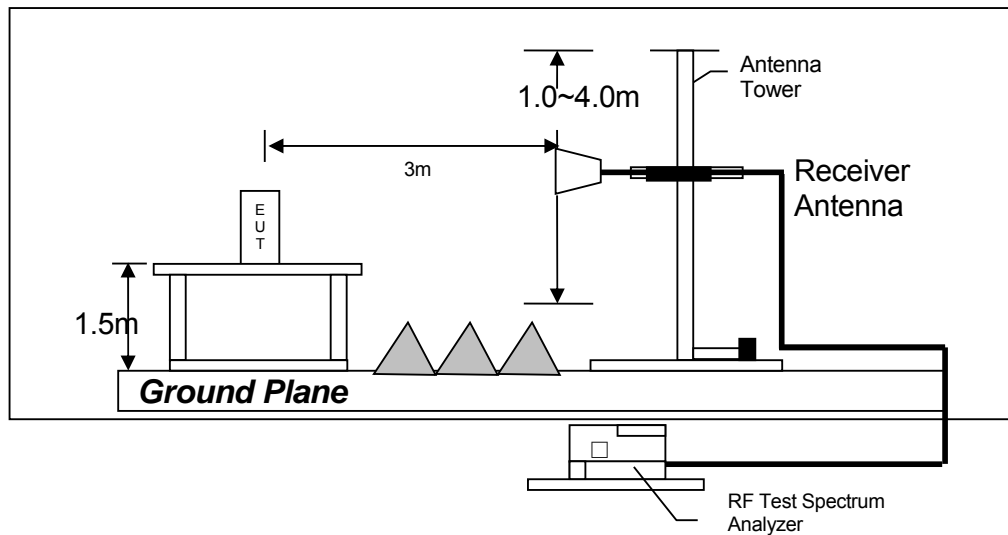
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3.2 Radiated Emission Test Setup

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



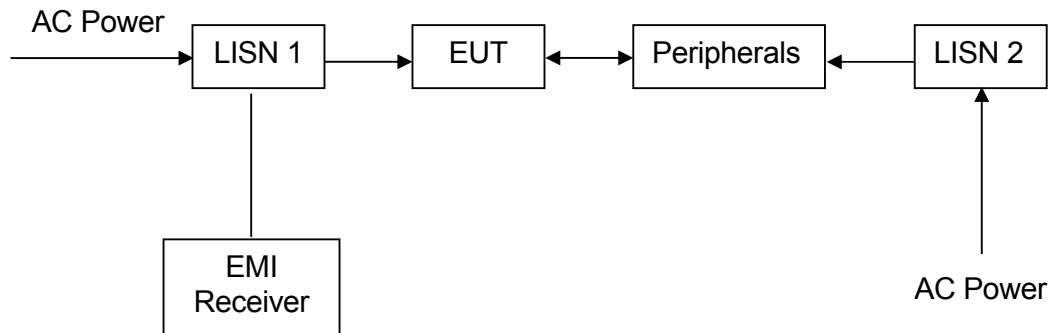
Test setup of radiated emissions up to 1GHz



Test setup of radiated emissions above 1GHz

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3.3 AC Line Conducted Emission Test Setup



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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 $\pm 5.3\text{dB}$ and $\pm 0.99\text{dB}$ respectively. The value of the Measurement uncertainty for conducted emission test is $\pm 4.2\text{dB}$.

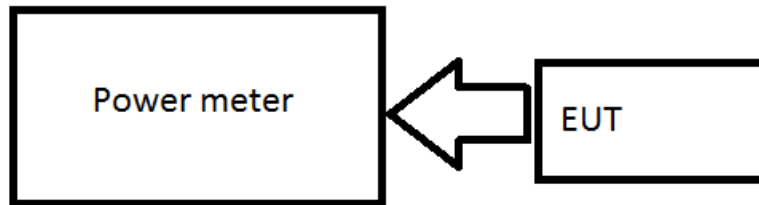
Uncertainty and Compliance - Unless the standard specifically states that measured values are to be extended by the measurement uncertainty in determining compliance, all compliance determinations are based on the actual measured value.

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**EXHIBIT 4
TEST RESULTS**

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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%).

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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 |

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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 |

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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

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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 = $G_{ant} + 10\log(N_{ant})$ dBi = 6.77 dBi

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).

INTERTEK TESTING SERVICES

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 |

INTERTEK TESTING SERVICES

| 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

INTERTEK TESTING SERVICES

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 |

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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

INTERTEK TESTING SERVICES

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 |

INTERTEK TESTING SERVICES

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.

INTERTEK TESTING SERVICES

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 than -27dBm/MHz for master device.

For UNII-3:

All spurious in 5175-5725MHz and 5850-5860MHz should be less than -17dBm/MHz

All spurious other than 5175-5725MHz and 5850-5860MHz should be less than -27dBm/MHz

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

INTERTEK TESTING SERVICES

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 dB μ V/m
- RA = Receiver Amplitude (including preamplifier) in dB μ V
- 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 dB μ V is obtained. The antenna 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 dB μ V/m. This value in dB μ V/m is converted to its corresponding level in μ V/m.

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

$$FS = 62.0 + 7.4 + 1.6 - 29.0 + 0.0 + (-10.0) = 32.0 \text{ dB}\mu\text{V/m}$$

$$\text{Level in } \mu\text{V/m} = \text{Common Antilogarithm } [(32.0 \text{ dB}\mu\text{V/m})/20] = 39.8 \mu\text{V/m}$$

INTERTEK TESTING SERVICES

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

INTERTEK TESTING SERVICES

Mode: A Mode 5180MHz Ant 0

Table 1
IEEE 802.11a (OFDM, 6 Mbps)

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, 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 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.
 $E[dBuV/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: A Mode 5240MHz Ant 0

Table 3
IEEE 802.11a (OFDM, 6 Mbps)

Radiated Emission Data

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

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

- 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: A Mode 5180MHz Ant 1

Table 4
IEEE 802.11a (OFDM, 6 Mbps)

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dBuV/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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.
 $E[dBuV/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: A Mode 5240MHz Ant 1

Table 6
IEEE 802.11a (OFDM, 6 Mbps)

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dBuV/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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.
 $E[dBuV/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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.
 $E[\text{dB}\mu\text{V}/\text{m}] = \text{EIRP}[\text{dBm}] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: A Mode 5240MHz Ant 2

Table 9
IEEE 802.11a (OFDM, 6 Mbps)

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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

Table 10
IEEE 802.11a (OFDM, 6 Mbps)

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dBuV/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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.
 $E[dBuV/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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

Table 12
IEEE 802.11n (HT20, MCS0)

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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.
 $E[dBuV/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: N Mode 20MHz 5200MHz Ant 0

Table 14
IEEE 802.11n (HT20, MCS0)

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dBuV/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: N Mode 20MHz 5240MHz Ant 0

Table 15
IEEE 802.11n (HT20, MCS0)

Radiated Emission Data

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

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

- 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: N Mode 20MHz 5180MHz Ant 1

Table 16
IEEE 802.11n (HT20, MCS0)

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: N Mode 20MHz 5200MHz Ant 1

Table 17
IEEE 802.11n (HT20, MCS0)

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dBuV/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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) |
|-------------------|-------------------------|--------------------|-------------------------|---------------------------|--------------------------|---------------------------------|---------------------|
| <i>V</i> | <i>5350.000</i> | <i>44.1</i> | <i>33</i> | <i>35.7</i> | <i>46.8</i> | <i>68.2</i> | <i>-21.4</i> |
| <i>V</i> | <i>15720.000</i> | <i>40.8</i> | <i>33</i> | <i>37.7</i> | <i>45.5</i> | <i>68.2</i> | <i>-22.7</i> |
| <i>V</i> | <i>19435.000</i> | <i>45.5</i> | <i>33</i> | <i>37.7</i> | <i>50.2</i> | <i>68.2</i> | <i>-18.0</i> |
| <i>V</i> | <i>20960.000</i> | <i>44.9</i> | <i>33</i> | <i>37.7</i> | <i>49.6</i> | <i>68.2</i> | <i>-18.6</i> |
| <i>H</i> | <i>31440.000</i> | <i>43.7</i> | <i>33</i> | <i>42.1</i> | <i>52.8</i> | <i>68.2</i> | <i>-15.4</i> |

| 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) |
|-------------------|-------------------------|--------------------|-------------------------|---------------------------|--------------------------|------------------------------------|--------------------|
| <i>V</i> | <i>5350.000</i> | <i>44.1</i> | <i>33</i> | <i>35.7</i> | <i>46.8</i> | <i>54.0</i> | <i>-7.2</i> |
| <i>V</i> | <i>15720.000</i> | <i>40.8</i> | <i>33</i> | <i>37.7</i> | <i>45.5</i> | <i>54.0</i> | <i>-8.5</i> |
| <i>V</i> | <i>19435.000</i> | <i>45.5</i> | <i>33</i> | <i>37.7</i> | <i>50.2</i> | <i>54.0</i> | <i>-3.8</i> |
| <i>V</i> | <i>20960.000</i> | <i>44.9</i> | <i>33</i> | <i>37.7</i> | <i>49.6</i> | <i>54.0</i> | <i>-4.4</i> |
| <i>H</i> | <i>31440.000</i> | <i>43.7</i> | <i>33</i> | <i>42.1</i> | <i>52.8</i> | <i>54.0</i> | <i>-1.2</i> |

- 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: N Mode 20MHz 5180MHz Ant 2

Table 19
IEEE 802.11n (HT20, MCS0)

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dBuV/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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.
 $E[dBuV/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: N Mode 20MHz 5240MHz Ant 2

Table 21
IEEE 802.11n (HT20, MCS0)

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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

Table 22
IEEE 802.11n (HT20, MCS0)

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dBuV/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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

Table 23
IEEE 802.11n (HT20, MCS0)

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dBuV/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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

Table 24
IEEE 802.11n (HT20, MCS0)

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: N Mode 40MHz 5190MHz Ant 0

Table 25
IEEE 802.11n (HT40, MCS0)

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dBuV/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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) |
|-------------------|-------------------------|--------------------|-------------------------|---------------------------|--------------------------|---------------------------------|---------------------|
| <i>V</i> | <i>5350.000</i> | <i>44.3</i> | <i>33</i> | <i>35.7</i> | <i>47.0</i> | <i>68.2</i> | <i>-21.2</i> |
| <i>V</i> | <i>15960.000</i> | <i>41.0</i> | <i>33</i> | <i>37.7</i> | <i>45.7</i> | <i>68.2</i> | <i>-22.5</i> |
| <i>V</i> | <i>19425.000</i> | <i>45.9</i> | <i>33</i> | <i>37.7</i> | <i>50.6</i> | <i>68.2</i> | <i>-17.6</i> |
| <i>V</i> | <i>20920.000</i> | <i>44.6</i> | <i>33</i> | <i>37.7</i> | <i>49.3</i> | <i>68.2</i> | <i>-18.9</i> |
| <i>H</i> | <i>31380.000</i> | <i>43.6</i> | <i>33</i> | <i>42.1</i> | <i>52.7</i> | <i>68.2</i> | <i>-15.5</i> |

| 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) |
|-------------------|-------------------------|--------------------|-------------------------|---------------------------|--------------------------|------------------------------------|--------------------|
| <i>V</i> | <i>5350.000</i> | <i>44.3</i> | <i>33</i> | <i>35.7</i> | <i>47.0</i> | <i>54.0</i> | <i>-7.0</i> |
| <i>V</i> | <i>15960.000</i> | <i>41.0</i> | <i>33</i> | <i>37.7</i> | <i>45.7</i> | <i>54.0</i> | <i>-8.3</i> |
| <i>V</i> | <i>19425.000</i> | <i>45.9</i> | <i>33</i> | <i>37.7</i> | <i>50.6</i> | <i>54.0</i> | <i>-3.4</i> |
| <i>V</i> | <i>20920.000</i> | <i>44.6</i> | <i>33</i> | <i>37.7</i> | <i>49.3</i> | <i>54.0</i> | <i>-4.7</i> |
| <i>H</i> | <i>31380.000</i> | <i>43.6</i> | <i>33</i> | <i>42.1</i> | <i>52.7</i> | <i>54.0</i> | <i>-1.3</i> |

- 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: N Mode 40MHz 5190MHz Ant 1

Table 27
IEEE 802.11n (HT40, MCS0)

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dBuV/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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) |
|-------------------|-------------------------|--------------------|-------------------------|---------------------------|--------------------------|---------------------------------|---------------------|
| <i>V</i> | <i>5350.000</i> | <i>44.1</i> | <i>33</i> | <i>35.7</i> | <i>46.8</i> | <i>68.2</i> | <i>-21.4</i> |
| <i>V</i> | <i>15960.000</i> | <i>40.6</i> | <i>33</i> | <i>37.7</i> | <i>45.3</i> | <i>68.2</i> | <i>-22.9</i> |
| <i>V</i> | <i>19425.000</i> | <i>46.1</i> | <i>33</i> | <i>37.7</i> | <i>50.8</i> | <i>68.2</i> | <i>-17.4</i> |
| <i>V</i> | <i>20920.000</i> | <i>44.9</i> | <i>33</i> | <i>37.7</i> | <i>49.6</i> | <i>68.2</i> | <i>-18.6</i> |
| <i>H</i> | <i>31380.000</i> | <i>43.4</i> | <i>33</i> | <i>42.1</i> | <i>52.5</i> | <i>68.2</i> | <i>-15.7</i> |

| 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) |
|-------------------|-------------------------|--------------------|-------------------------|---------------------------|--------------------------|------------------------------------|--------------------|
| <i>V</i> | <i>5350.000</i> | <i>44.1</i> | <i>33</i> | <i>35.7</i> | <i>46.8</i> | <i>54.0</i> | <i>-7.2</i> |
| <i>V</i> | <i>15960.000</i> | <i>40.6</i> | <i>33</i> | <i>37.7</i> | <i>45.3</i> | <i>54.0</i> | <i>-8.7</i> |
| <i>V</i> | <i>19425.000</i> | <i>46.1</i> | <i>33</i> | <i>37.7</i> | <i>50.8</i> | <i>54.0</i> | <i>-3.2</i> |
| <i>V</i> | <i>20920.000</i> | <i>44.9</i> | <i>33</i> | <i>37.7</i> | <i>49.6</i> | <i>54.0</i> | <i>-4.4</i> |
| <i>H</i> | <i>31380.000</i> | <i>43.4</i> | <i>33</i> | <i>42.1</i> | <i>52.5</i> | <i>54.0</i> | <i>-1.5</i> |

- 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: N Mode 40MHz 5190MHz Ant 2

Table 29
IEEE 802.11n (HT40, MCS0)

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dBuV/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: N Mode 40MHz 5230MHz Ant 2

Table 30
IEEE 802.11n (HT40, MCS0)

Radiated Emission Data

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

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

- 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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

Table 31
IEEE 802.11n (HT40, MCS0)

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dBuV/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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

Table 32
IEEE 802.11n (HT40, MCS0)

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: AC Mode 20MHz 5180MHz Ant 0

Table 33
IEEE 802.11ac (HT20, MCS0)

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dBuV/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: AC Mode 20MHz 5240MHz Ant 0

Table 35
IEEE 802.11ac (HT20, MCS0)

Radiated Emission Data

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

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

- 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: AC Mode 20MHz 5180MHz Ant 1

Table 36
IEEE 802.11ac (HT20, MCS0)

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dBuV/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: AC Mode 20MHz 5200MHz Ant 1

Table 37
IEEE 802.11ac (HT20, MCS0)

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dBuV/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: AC Mode 20MHz 5240MHz Ant 1

Table 38
IEEE 802.11ac (HT20, MCS0)

Radiated Emission Data

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

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

- 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: AC Mode 20MHz 5180MHz Ant 2

Table 39
IEEE 802.11ac (HT20, MCS0)

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dBuV/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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.
 $E[dBuV/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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

Table 43
IEEE 802.11ac (HT20, MCS0)

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dBuV/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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

Table 44
IEEE 802.11ac (HT20, MCS0)

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: AC Mode 40MHz 5190MHz Ant 0

Table 45
IEEE 802.11ac (HT40, MCS0)

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dBuV/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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) |
|-------------------|-------------------------|--------------------|-------------------------|---------------------------|--------------------------|---------------------------------|---------------------|
| <i>V</i> | <i>5350.000</i> | <i>43.5</i> | <i>33</i> | <i>35.7</i> | <i>46.2</i> | <i>68.2</i> | <i>-22.0</i> |
| <i>V</i> | <i>15690.000</i> | <i>40.8</i> | <i>33</i> | <i>37.7</i> | <i>45.5</i> | <i>68.2</i> | <i>-22.7</i> |
| <i>V</i> | <i>19425.000</i> | <i>45.6</i> | <i>33</i> | <i>37.7</i> | <i>50.3</i> | <i>68.2</i> | <i>-17.9</i> |
| <i>V</i> | <i>20920.000</i> | <i>44.8</i> | <i>33</i> | <i>37.7</i> | <i>49.5</i> | <i>68.2</i> | <i>-18.7</i> |
| <i>H</i> | <i>31380.000</i> | <i>43.1</i> | <i>33</i> | <i>42.1</i> | <i>52.2</i> | <i>68.2</i> | <i>-16.0</i> |

| 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) |
|-------------------|-------------------------|--------------------|-------------------------|---------------------------|--------------------------|------------------------------------|--------------------|
| <i>V</i> | <i>5350.000</i> | <i>43.5</i> | <i>33</i> | <i>35.7</i> | <i>46.2</i> | <i>54.0</i> | <i>-7.8</i> |
| <i>V</i> | <i>15690.000</i> | <i>40.8</i> | <i>33</i> | <i>37.7</i> | <i>45.5</i> | <i>54.0</i> | <i>-8.5</i> |
| <i>V</i> | <i>19425.000</i> | <i>45.6</i> | <i>33</i> | <i>37.7</i> | <i>50.3</i> | <i>54.0</i> | <i>-3.7</i> |
| <i>V</i> | <i>20920.000</i> | <i>44.8</i> | <i>33</i> | <i>37.7</i> | <i>49.5</i> | <i>54.0</i> | <i>-4.5</i> |
| <i>H</i> | <i>31380.000</i> | <i>43.1</i> | <i>33</i> | <i>42.1</i> | <i>52.2</i> | <i>54.0</i> | <i>-1.8</i> |

- 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: AC Mode 40MHz 5190MHz Ant 1

Table 47
IEEE 802.11ac (HT40, MCS0)

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dBuV/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: AC Mode 40MHz 5230MHz Ant 1

Table 48
IEEE 802.11ac (HT40, MCS0)

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: AC Mode 40MHz 5190MHz Ant 2

Table 49
IEEE 802.11ac (HT40, MCS0)

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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) |
|-------------------|-------------------------|--------------------|-------------------------|---------------------------|--------------------------|---------------------------------|---------------------|
| <i>V</i> | <i>5350.000</i> | <i>44.0</i> | <i>33</i> | <i>35.7</i> | <i>46.7</i> | <i>68.2</i> | <i>-21.5</i> |
| <i>V</i> | <i>15690.000</i> | <i>40.8</i> | <i>33</i> | <i>37.7</i> | <i>45.5</i> | <i>68.2</i> | <i>-22.7</i> |
| <i>V</i> | <i>19425.000</i> | <i>46.1</i> | <i>33</i> | <i>37.7</i> | <i>50.8</i> | <i>68.2</i> | <i>-17.4</i> |
| <i>V</i> | <i>20920.000</i> | <i>44.9</i> | <i>33</i> | <i>37.7</i> | <i>49.6</i> | <i>68.2</i> | <i>-18.6</i> |
| <i>H</i> | <i>31380.000</i> | <i>43.8</i> | <i>33</i> | <i>42.1</i> | <i>52.9</i> | <i>68.2</i> | <i>-15.3</i> |

| 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) |
|-------------------|-------------------------|--------------------|-------------------------|---------------------------|--------------------------|------------------------------------|--------------------|
| <i>V</i> | <i>5350.000</i> | <i>44.0</i> | <i>33</i> | <i>35.7</i> | <i>46.7</i> | <i>54.0</i> | <i>-7.3</i> |
| <i>V</i> | <i>15690.000</i> | <i>40.8</i> | <i>33</i> | <i>37.7</i> | <i>45.5</i> | <i>54.0</i> | <i>-8.5</i> |
| <i>V</i> | <i>19425.000</i> | <i>46.1</i> | <i>33</i> | <i>37.7</i> | <i>50.8</i> | <i>54.0</i> | <i>-3.2</i> |
| <i>V</i> | <i>20920.000</i> | <i>44.9</i> | <i>33</i> | <i>37.7</i> | <i>49.6</i> | <i>54.0</i> | <i>-4.4</i> |
| <i>H</i> | <i>31380.000</i> | <i>43.8</i> | <i>33</i> | <i>42.1</i> | <i>52.9</i> | <i>54.0</i> | <i>-1.1</i> |

- 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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

Table 51
IEEE 802.11ac (HT40, MCS0)

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dBuV/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: AC Mode 80MHz 5210MHz Ant 0

Table 53
IEEE 802.11ac (HT80, MCS0)

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: AC Mode 80MHz 5210MHz Ant 1

Table 54
IEEE 802.11ac (HT80, MCS0)

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: AC Mode 80MHz 5210MHz Ant 2

Table 55
IEEE 802.11ac (HT80, MCS0)

Radiated Emission Data

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

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

- 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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

Table 56
IEEE 802.11ac (HT80, MCS0)

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: A Mode 5745MHz Ant 0

Table 57
IEEE 802.11A (OFDM, 6Mbps)

Radiated Emission Data

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

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

- 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.
 $E[dBuV/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: A Mode 5785MHz Ant 0

Table 58
IEEE 802.11A (OFDM, 6Mbps)

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: A Mode 5825MHz Ant 0

Table 59
IEEE 802.11A (OFDM, 6Mbps)

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: A Mode 5745MHz Ant 1

Table 60
IEEE 802.11A (OFDM, 6 Mbps)

Radiated Emission Data

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

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

- 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.
 $E[dBuV/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: A Mode 5785MHz Ant 1

Table 61
IEEE 802.11A (OFDM, 6 Mbps)

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: A Mode 5825MHz Ant 1

Table 62
IEEE 802.11A (OFDM, 6 Mbps)

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: A Mode 5745MHz Ant 2

Table 63
IEEE 802.11A (OFDM, 6 Mbps)

Radiated Emission Data

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

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

- 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.
 $E[dBuV/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: A Mode 5785MHz Ant 2

Table 64
IEEE 802.11A (OFDM, 6 Mbps)

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: A Mode 5825MHz Ant 2

Table 65
IEEE 802.11A (OFDM, 6 Mbps)

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[\text{dB}\mu\text{V}/\text{m}] = \text{EIRP}[\text{dBm}] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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

Table 66
IEEE 802.11A (OFDM, 6Mbps)

Radiated Emission Data

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

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

- 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.
 $E[dBuV/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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

Table 67
IEEE 802.11A (OFDM, 6Mbps)

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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) |
|-------------------|-------------------------|--------------------|-------------------------|---------------------------|--------------------------|---------------------------------|---------------------|
| <i>V</i> | <i>11650.000</i> | <i>37.8</i> | <i>33</i> | <i>40.5</i> | <i>45.3</i> | <i>68.2</i> | <i>-22.9</i> |
| <i>V</i> | <i>17475.000</i> | <i>42.1</i> | <i>33</i> | <i>37.6</i> | <i>46.7</i> | <i>68.2</i> | <i>-21.5</i> |
| <i>V</i> | <i>23300.000</i> | <i>44.8</i> | <i>33</i> | <i>38.6</i> | <i>50.4</i> | <i>68.2</i> | <i>-17.8</i> |
| <i>V</i> | <i>29125.000</i> | <i>45.5</i> | <i>33</i> | <i>40.0</i> | <i>52.5</i> | <i>68.2</i> | <i>-15.7</i> |
| <i>H</i> | <i>34950.000</i> | <i>45.5</i> | <i>33</i> | <i>41.3</i> | <i>53.8</i> | <i>68.2</i> | <i>-14.4</i> |

| 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) |
|-------------------|-------------------------|--------------------|-------------------------|---------------------------|--------------------------|------------------------------------|--------------------|
| <i>V</i> | <i>11650.000</i> | <i>37.8</i> | <i>33</i> | <i>40.5</i> | <i>45.3</i> | <i>54.0</i> | <i>-8.7</i> |
| <i>V</i> | <i>17475.000</i> | <i>42.1</i> | <i>33</i> | <i>37.6</i> | <i>46.7</i> | <i>54.0</i> | <i>-7.3</i> |
| <i>V</i> | <i>23300.000</i> | <i>44.8</i> | <i>33</i> | <i>38.6</i> | <i>50.4</i> | <i>54.0</i> | <i>-3.6</i> |
| <i>V</i> | <i>29125.000</i> | <i>45.5</i> | <i>33</i> | <i>40.0</i> | <i>52.5</i> | <i>54.0</i> | <i>-1.5</i> |
| <i>H</i> | <i>34950.000</i> | <i>45.5</i> | <i>33</i> | <i>41.3</i> | <i>53.8</i> | <i>54.0</i> | <i>-0.2</i> |

- 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: N Mode 20MHz 5745MHz Ant 0

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

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dBuV/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: N Mode 20MHz 5785MHz Ant 0

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

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: N Mode 20MHz 5745MHz Ant 1

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

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: N Mode 20MHz 5785MHz Ant 1

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

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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.
 $E[dBuV/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: N Mode 20MHz 5785MHz Ant 2

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

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: N Mode 20MHz 5825MHz Ant 2

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

Radiated Emission Data

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

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

- 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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.
 $E[dBuV/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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

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

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: N Mode 40MHz 5755MHz Ant 0

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

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dBuV/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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) |
|-------------------|-------------------------|--------------------|-------------------------|---------------------------|--------------------------|---------------------------------|---------------------|
| <i>V</i> | <i>11590.000</i> | <i>36.7</i> | <i>33</i> | <i>40.5</i> | <i>44.2</i> | <i>68.2</i> | <i>-24.0</i> |
| <i>V</i> | <i>17385.000</i> | <i>40.5</i> | <i>33</i> | <i>37.6</i> | <i>45.1</i> | <i>68.2</i> | <i>-23.1</i> |
| <i>V</i> | <i>23180.000</i> | <i>44.0</i> | <i>33</i> | <i>38.6</i> | <i>49.6</i> | <i>68.2</i> | <i>-18.6</i> |
| <i>V</i> | <i>28975.000</i> | <i>41.7</i> | <i>33</i> | <i>40.1</i> | <i>48.8</i> | <i>68.2</i> | <i>-19.4</i> |
| <i>H</i> | <i>34770.000</i> | <i>44.0</i> | <i>33</i> | <i>41.3</i> | <i>52.3</i> | <i>68.2</i> | <i>-15.9</i> |

| 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) |
|-------------------|-------------------------|--------------------|-------------------------|---------------------------|--------------------------|------------------------------------|--------------------|
| <i>V</i> | <i>11590.000</i> | <i>36.7</i> | <i>33</i> | <i>40.5</i> | <i>44.2</i> | <i>54.0</i> | <i>-9.8</i> |
| <i>V</i> | <i>17385.000</i> | <i>40.5</i> | <i>33</i> | <i>37.6</i> | <i>45.1</i> | <i>54.0</i> | <i>-8.9</i> |
| <i>V</i> | <i>23180.000</i> | <i>44.0</i> | <i>33</i> | <i>38.6</i> | <i>49.6</i> | <i>54.0</i> | <i>-4.4</i> |
| <i>V</i> | <i>28975.000</i> | <i>41.7</i> | <i>33</i> | <i>40.1</i> | <i>48.8</i> | <i>54.0</i> | <i>-5.2</i> |
| <i>H</i> | <i>34770.000</i> | <i>44.0</i> | <i>33</i> | <i>41.3</i> | <i>52.3</i> | <i>54.0</i> | <i>-1.7</i> |

- 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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.
 $E[dBuV/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: N Mode 40MHz 5795MHz Ant 1

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

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: N Mode 40MHz 5755MHz Ant 2

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

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: N Mode 40MHz 5795MHz Ant 2

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

Radiated Emission Data

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

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

- 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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

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

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dBuV/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: AC Mode 20MHz 5745MHz Ant 0

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

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dBuV/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: AC Mode 20MHz 5785MHz Ant 0

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

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: AC Mode 20MHz 5825MHz Ant 0

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

Radiated Emission Data

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

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

- 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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.
 $E[\text{dB}\mu\text{V}/\text{m}] = \text{EIRP}[\text{dBm}] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: AC Mode 20MHz 5785MHz Ant 1

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

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: AC Mode 20MHz 5825MHz Ant 1

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

Radiated Emission Data

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

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

- 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: AC Mode 20MHz 5745MHz Ant 2

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

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dBuV/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: AC Mode 20MHz 5785MHz Ant 2

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

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: AC Mode 20MHz 5825MHz Ant 2

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

Radiated Emission Data

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

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

- 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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

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

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dBuV/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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

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

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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

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

Radiated Emission Data

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

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

- 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: AC Mode 40MHz 5755MHz Ant 0

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

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dBuV/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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) |
|-------------------|-------------------------|--------------------|-------------------------|---------------------------|--------------------------|---------------------------------|---------------------|
| <i>V</i> | <i>11590.000</i> | <i>36.6</i> | <i>33</i> | <i>40.5</i> | <i>44.1</i> | <i>68.2</i> | <i>-24.1</i> |
| <i>V</i> | <i>17385.000</i> | <i>40.9</i> | <i>33</i> | <i>37.6</i> | <i>45.5</i> | <i>68.2</i> | <i>-22.7</i> |
| <i>V</i> | <i>23180.000</i> | <i>44.1</i> | <i>33</i> | <i>38.6</i> | <i>49.7</i> | <i>68.2</i> | <i>-18.5</i> |
| <i>V</i> | <i>28975.000</i> | <i>41.3</i> | <i>33</i> | <i>40.1</i> | <i>48.4</i> | <i>68.2</i> | <i>-19.8</i> |
| <i>H</i> | <i>34770.000</i> | <i>43.9</i> | <i>33</i> | <i>41.3</i> | <i>52.2</i> | <i>68.2</i> | <i>-16.0</i> |

| 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) |
|-------------------|-------------------------|--------------------|-------------------------|---------------------------|--------------------------|------------------------------------|--------------------|
| <i>V</i> | <i>11590.000</i> | <i>36.6</i> | <i>33</i> | <i>40.5</i> | <i>44.1</i> | <i>54.0</i> | <i>-9.9</i> |
| <i>V</i> | <i>17385.000</i> | <i>40.9</i> | <i>33</i> | <i>37.6</i> | <i>45.5</i> | <i>54.0</i> | <i>-8.5</i> |
| <i>V</i> | <i>23180.000</i> | <i>44.1</i> | <i>33</i> | <i>38.6</i> | <i>49.7</i> | <i>54.0</i> | <i>-4.3</i> |
| <i>V</i> | <i>28975.000</i> | <i>41.3</i> | <i>33</i> | <i>40.1</i> | <i>48.4</i> | <i>54.0</i> | <i>-5.6</i> |
| <i>H</i> | <i>34770.000</i> | <i>43.9</i> | <i>33</i> | <i>41.3</i> | <i>52.2</i> | <i>54.0</i> | <i>-1.8</i> |

- 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: AC Mode 40MHz 5755MHz Ant 1

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

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dBuV/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: AC Mode 40MHz 5795MHz Ant 1

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

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: AC Mode 40MHz 5755MHz Ant 2

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

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dBuV/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: AC Mode 40MHz 5795MHz Ant 2

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

Radiated Emission Data

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

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

- 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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

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

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dBuV/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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

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

Radiated Emission Data

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

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

- 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: AC Mode 80MHz 5775MHz Ant 0

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

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: AC Mode 80MHz 5775MHz Ant 1

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

Radiated Emission Data

| Polarization | 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 |

| Polarization | 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Mode: AC Mode 80MHz 5775MHz Ant 2

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

Radiated Emission Data

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

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

- 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

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

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

Radiated Emission Data

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

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

- 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.
 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.
 Thus, the Peak limit for U-NII should be $-27+95.2=68.2$ dBuV/m.

INTERTEK TESTING SERVICES

Worst Case: EUT Transmitting

Table 113

Radiated Emission Data

| Polarization | Frequency (MHz) | Reading (dB μ V) | Pre-amp (dB) | Antenna Factor (dB) | Net at 3m (dB μ V/m) | Limit at 3m (dB μ V/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 |
| <i>H</i> | <i>216.074</i> | <i>30.4</i> | <i>16</i> | <i>17.0</i> | <i>31.4</i> | <i>46.0</i> | <i>-14.6</i> |
| <i>H</i> | <i>288.068</i> | <i>32.6</i> | <i>16</i> | <i>22.0</i> | <i>38.6</i> | <i>46.0</i> | <i>-7.4</i> |

- 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.

INTERTEK TESTING SERVICES

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

INTERTEK TESTING SERVICES

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 |

INTERTEK TESTING SERVICES

Worst Case: EUT Charging

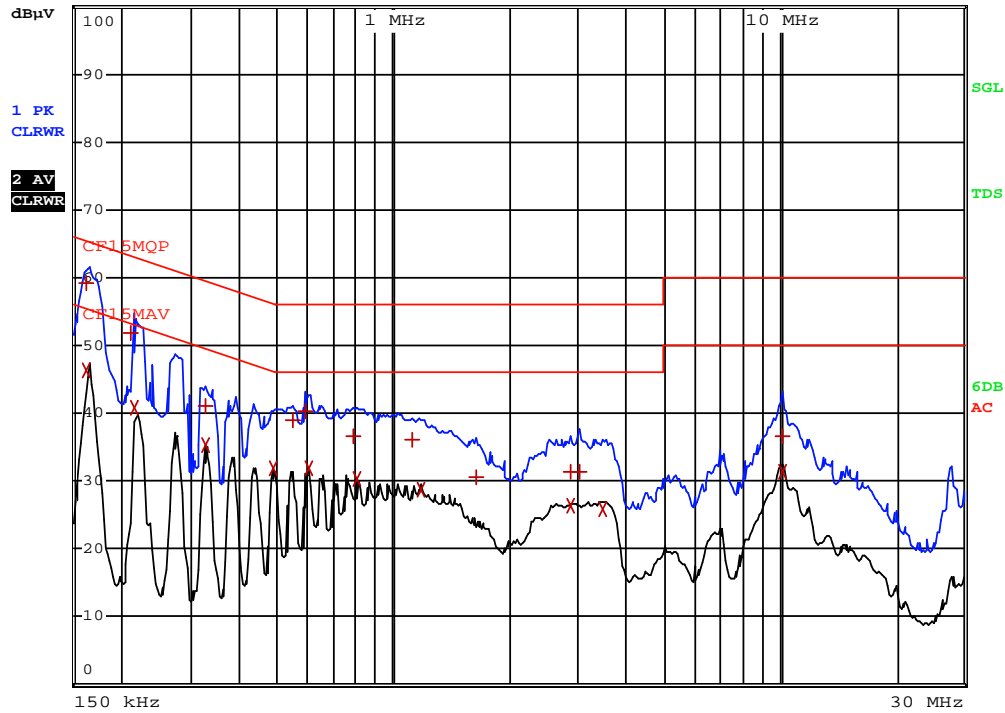
| EDIT PEAK LIST (Final Measurement Results) | | | |
|--------------------------------------------|-------------|------------------|----------------|
| Trace1: | CF15MQP | | |
| Trace2: | CF15MAV | | |
| Trace3: | --- | | |
| TRACE | FREQUENCY | LEVEL dB μ V | DELTA LIMIT dB |
| 1 Quasi Peak | 10.1535 MHz | 36.65 L1 | -23.34 |

INTERTEK TESTING SERVICES

Worst Case: EUT Transmitting



RBW 9 kHz
MT 1 s
Att 10 dB AUTO PREAMP OFF



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

INTERTEK TESTING SERVICES

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) | Measured Value (ppm) | Measured Value (ppm) |
|---------------------|--------------------|--------|-------------------------|-------------------------|-------------------------|
| | | | 120VAC | 132VAC | 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.

INTERTEK TESTING SERVICES

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.

INTERTEK TESTING SERVICES

**EXHIBIT 5
EQUIPMENT LIST**

INTERTEK TESTING SERVICES

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