# TEST REPORT

# For

ActivConnect G Series Android PC

Model Number: PRM-X6PRO-01

FCC ID: QAM018

IC: 5459A-018

# Report Number : WT168002531

| Test Laboratory | : | Shenzhen Academy of Metrology and Quality Inspection |
|-----------------|---|--|
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# **TEST REPORT DECLARATION**

| Applicant       | : PROMETHEAN LIMITED  |
|-----------------|---|
| Address         | : PROMETHEAN HOUSE, LOWER PHILIPS RD WHITEBIRK<br>BLACKBURN, BB1 5TH UNITED KINGDOM |
| Manufacturer    | : PROMETHEAN LIMITED  |
| Address         | : PROMETHEAN HOUSE, LOWER PHILIPS RD WHITEBIRK<br>BLACKBURN, BB1 5TH UNITED KINGDOM |
| EUT Description | : ActivConnect G Series Android PC  |
| Model No        | : PRM-X6PRO-01  |
| Trade mark      | : Promethean  |
| Serial Number   | : /   |
| FCC ID          | : QAM018  |
| IC              | : 5459A-018   |

**Test Standards:** 

#### FCC Part 15 15.207, 15.209, 15.407(2015)

#### RSS-247 Issue 1(2015-05) RSS-Gen Issue 4(2014-11)

The EUT described above is tested by Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory to determine the maximum emissions from the EUT. Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory is assumed full responsibility for the accuracy of the test results. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with FCC Rules Part 15.207, 15.209, 15.407 and IC Rules RSS-247 Issue 1(2015-05), RSS-Gen Issue 4(2014-11)

The test report is valid for above tested sample only and shall not be reproduced in part without written approval of the laboratory.

| Project<br>Engineer: | TRIA              | Date: | _May.13, 2016 |
|----------------------|-------------------|-------|---------------|
|                      | (Chen Silin 陈司林)  |       |               |
| Checked by:          | 林主钢               | Date: | May.13, 2016  |
|                      | (Lin Yixiang 林奕翔) |       |               |
| Approved by:         | TEN               | Date: | May.13, 2016  |
|                      | (Lin Bin 林斌)      |       |               |

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# 1. TEST RESULTS SUMMARY

| Table 1 Test Results Summary              |                                |                         |              |  |
|---|--------------------------------|-------------------------|--------------|--|
| Test Items                                | FCC Rules                      | IC Rules                | Test Results |  |
| 6dB Bandwidth                             | FCC §15.407 (e)                | RSS-247<br>Clause 6.2   | Pass         |  |
| 26dB Bandwidth                            | FCC §15.407 (a)                | RSS-247<br>Clause 6.2   | Pass         |  |
| Maximum Peak Conducted<br>Power           | FCC §15.407 (a)                | RSS-247<br>Clause 6.2   | Pass         |  |
| Maximum Power Spectral<br>Density Level   | FCC §15.407 (a)                | RSS-247<br>Clause 6.2   | Pass         |  |
| Radiated Bandedge and Spurious            | 15.407 (b)<br>15.209<br>15.205 | RSS-247<br>Clause 6.2   | Pass         |  |
| Conducted emission test for AC power port | 15.207                         | RSS-Gen<br>Section8.8   | Pass         |  |
| Frequency Stability                       | 15.407(g)                      | RSS-Gen §6.11           | Pass         |  |
| Antenna Requirment                        | 15.203                         | RSS-Gen<br>Section8.1.3 | Pass         |  |
| 99% Occupied bandwidth                    | N/A                            | RSS-Gen<br>Clause 6.6   | Pass         |  |

Remark: "N/A" means "Not applicable."

# 2. GENERAL INFORMATION

#### 2.1.Report information

- 2.1.1.This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that SMQ approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that SMQ in any way guarantees the later performance of the product/equipment.
- 2.1.2.The sample/s mentioned in this report is/are supplied by Applicant, SMQ therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.
- 2.1.3.Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through SMQ, unless the applicant has authorized SMQ in writing to do so.

#### 2.2. Laboratory Accreditation and Relationship to Customer

The testing report were performed by the Shenzhen Academy of Metrology and quality Inspection EMC Laboratory (Guangdong EMC compliance testing center), in their facilities located at Bldg. of Metrology & Quality Inspection, Longzhu Road, Nanshan District, Shenzhen, Guangdong, China. At the time of testing, Laboratory is accredited by the following organizations:

China National Accreditation Service for Conformity Assessment (CNAS) accredits the Laboratory for conformance to FCC standards, EMC international standards and EN standards. The Registration Number is CNAS L0579. The Laboratory is listed in the United States of American Federal

Communications Commission (FCC), and the registration number are 446246 806614 994606(semi anechoic chamber).

The Laboratory is listed in Voluntary Control Council for Interference by Information Technology Equipment (VCCI), and the registration number are R-1974(open area test site), R-1966(semi anechoic chamber),C-2117(mains ports conducted interference measurement) and T-180(telecommunication ports conducted interference measurement).

The Laboratory is registered to perform emission tests with Industry Canada (IC), and the registration number is 11177A-1 11177A-2.

TUV Rhineland accredits the Laboratory for conformance to IEC and EN standards, the registration number is E2024086Z02.

# 2.3. Measurement Uncertainty

Conducted Emission 9kHz~30MHz 3.5dB

Radiated Emission 30MHz~1000MHz 4.5dB 1GHz~26.5GHz 4.6dB

# 3. PRODUCT DESCRIPTION

### 3.1.EUT Description

| Description            | · ActivConnect G Series Android PC               |  |  |
|------------------------|--|--|--|
| Manufacturer           | PROMETHEAN LIMITED                               |  |  |
| Model Number           | PRM-X6PRO-01                                     |  |  |
| Operate<br>Frequency   | : U-NII 1(5150~5250MHz)<br>U-NII 3(5725~5850MHz) |  |  |
| Antenna<br>Designation | PIFA Antenna 2dBi                                |  |  |
|                        |  |  |  |

Remark: /

Table 2 Working Frequency List U-NII 1 (802.11a, 802.11ac VH20, 802.11n HT20)

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 36      | 5180MHz   | 44      | 5220MHz   |
| 40      | 5200MHz   | 48      | 5240MHz   |

Table 3 Working Frequency List U-NII 1,(802.11ac VH40, 802.11n HT40)

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 38      | 5190MHz   | 46      | 5230MHz   |

Table 4 Working Frequency List U-NII 1 (802.11ac VH80)

| Channel | Frequency |
|---------|-----------|
| 42      | 5210MHz   |

Table 5 Working Frequency List U-NII 3 (802.11a, 802.11ac VH20, 802.11n HT20)

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 149     | 5745MHz   | 161     | 5805MHz   |
| 153     | 5765MHz   | 165     | 5825MHz   |
| 157     | 5785MHz   |         |           |

#### Table 6 Working Frequency List U-NII 3,(802.11ac VH40, 802.11n HT40)

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 151     | 5755MHz   | 159     | 5795MHz   |

| Table 7 Working | I Frequency | V List U-NII 3 | (802.11ac VH80) |
|-----------------|-------------|----------------|-----------------|
|                 |             |                | (               |

| Channel | Frequency |
|---------|-----------|
| 155     | 5775MHz   |

#### 3.2. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **QAM018** and IC: **5459A-018** filing to comply with Section 15.207, 15.209, 15.407 of the FCC Part 15, Subpart E and RSS-247 Issue 1(2015-05), RSS-Gen Issue 4(2014-11) Rules.

#### 3.3. Block Diagram of EUT Configuration

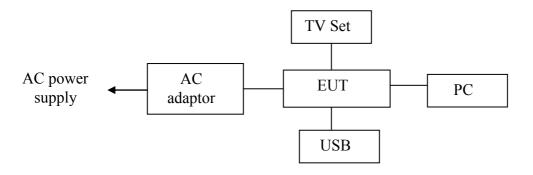


Figure 1 EUT setup

#### 3.4. Operating Condition of EUT

The Radiated spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission (X plane).

Worst-case mode and channel used for 30-1000 MHz radiated and power line conducted emissions was the mode and channel with the highest output power. Worst-case data rates as provided by the client were:

802.11a mode: 6 Mbps

802.11n HT20 mode: MCS0

802.11n HT40 mode: MCS0

802.11ac VH80 mode:MCS0

802.11a operates in SISO mode. For SISO conducted

measurements, the modes tested in this report will be considered as a worst case mode.

802.11n operate in SISO mode. For SISO conducted

measurements, the modes tested in this report will be considered as a worst case mode.

802.11ac operate in SISO mode. For SISO conducted

measurements, the modes tested in this report will be considered as a worst case mode.

#### 3.5. Directional Antenna Gain

The EUT does NOT support a WIFI MIMO function. Directional gain need NOT to be considered.

### 3.6. Support Equipment List

| Name               | Model No        | Support Equipme<br>S/N | Manufacturer                                   |
|--------------------|-----------------|------------------------|--|
| Adaptor for<br>EUT | ICP12-050-2000D |                        | Shenzhen Shi Yingyuan Electronics Co.,<br>Ltd. |
| Computer           | 9439            | L3BDF2K                | Lenovo   |
| Keyboard<br>(USB)  | SK-8825 (L)     | 02553778               | Lenovo   |
| Mouse (USB)        | MO28UOL         | 4418011108             | Lenovo   |
| Monitor            | 9227-AE1        | V1TDB38                | Lenovo   |
| TV                 | KV-J21TF8       |                        | Sony   |
| LCD TV             | 26L16SW         | R145567                | Skyworth                                       |

#### Table 8 Support Equipment List

#### **3.7.Test Conditions**

Date of test : Apr.15,2016- May.10, 2016 Date of EUT Receive : Apr.11,2016 Temperature: -30-50 °C Relative Humidity:48-56%

#### 3.8. Special Accessories

Not available for this EUT intended for grant.

#### **3.9. Equipment Modifications**

Not available for this EUT intended for grant.

# 4. TEST EQUIPMENT USED

|           |  |                 |                 |              | Cal.     |
|-----------|--|-----------------|-----------------|--------------|----------|
| No.       | Equipment  | Manufacturer    | Model No.       | Last Cal.    | Interval |
| SB2603    | EMI Test Receiver                                    | Rohde & Schwarz | ESCS30          | Dec.18, 2015 | 1 Year   |
| SB3321    | AMN  | Rohde & Schwarz | ESH2-Z5         | Jan.17, 2016 | 1 Year   |
| SB2604    | AMN  | Rohde & Schwarz | ESH3-Z5         | Nov.18, 2015 | 1 Year   |
| SB8501/09 | EMI Test Receiver                                    | Rohde & Schwarz | ESU40           | Mar.18, 2016 | 1 Year   |
| SB8501/04 | Bilog Antenna  | Schwarzbeck     | VULB9163        | Mar.18, 2016 | 1 Year   |
| SB5472/02 | Trilog Broadband<br>Antenna(30M-3GHz)                | Schwarzbeck     | VULB9163        | Jan.07 ,2016 | 1 Year   |
| SB3435    | Horn Antenna   | Rohde & Schwarz | HF906           | Jan.18, 2016 | 1 Year   |
| SB8501/01 | Double-Ridged<br>Waveguide Horn<br>Antenna(1G~18GHz) | Rohde & Schwarz | HF907           | Mar.21, 2016 | 1 Year   |
| SB3345    | Loop Antenna   | Schwarzbeck     | FMZB1516        | Jan.20, 2015 | 2 Years  |
| SB3437    | Power meter  | Rohde & Schwarz | NRVD            | Jul.03, 2015 | 1 Year   |
| SB8501/17 | Preamplifier   | Rohde & Schwarz | SCU-18          | Mar.26, 2016 | 1 Year   |
| SB8501/16 | Preamplifier   | Rohde & Schwarz | SCU-26          | Mar.26, 2016 | 1 Year   |
| SB9059    | Preamplifier   | Rohde & Schwarz | SCU-40          | Nov.05,2015  | 1 Year   |
| SB8501/11 | Horn Antenna   | ETS-Lindgren    | 3160-09         | Mar.28,2016  | 1 Year   |
| SB8501/12 | Horn Antenna   | ETS-Lindgren    | 3160-10         | Mar.28,2016  | 1 Year   |
| SB9721/05 | Power Meter  | Agilent         | N1913A          | Dec.28, 2015 | 1 Year   |
| SB9721/06 | Power Sensor   | Agilent         | E9304A          | Dec.28, 2015 | 1 Year   |
| SB11818   | Temperature &<br>Humidity Chamber                    | EH-010U         | Espec,CHI<br>NA | Jan.19, 2016 | 1 Year   |

# Table 9 Test Equipment

# 5. DUTY CYCLE

### 5.1.LIMITS OF DUTY CYCLE

None; for reporting purposes only

### **5.2.TEST PROCEDURE**

- 1. Set span = Zero
- 2. RBW = 8MHz
- 3. VBW = 8MHz,
- 4. Detector = Peak

#### **5.3.TEST SETUP**

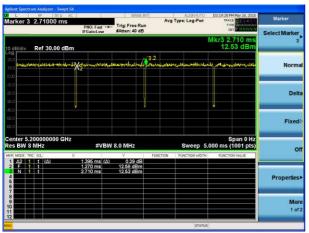


#### 5.4. TEST DATA

#### Table 10 Duty Cycle Test Data

| Mode         | On<br>Time<br>(ms) | Duty<br>Cycle(%) | Duty<br>Factor | 1/T<br>Minimum<br>VBW<br>(kHz) |
|--------------|--------------------|------------------|----------------|--------------------------------|
| 802.11a      | 1.395              | 96.88%           | 0.14           | 1                              |
| 802.11n HT20 | 1.305              | 96.66%           | 0.15           | 1                              |
| 802.11n HT40 | 0.65               | 92.20%           | 0.35           | 1.5                            |
| 802.11ac     | 0.321              | 86.99%           | 0.61           | 3                              |

#### 802.11a



### 802.11n HT20

| arker 3 2.95500 ms  | PNO: Fast -+         | SENSE INT                    | Avg Type    | Log-Pwr      | D3:21:53 PM M<br>TRACE<br>TYPE | 2345               | Marker        |
|---|----------------------|------------------------------|-------------|--------------|--------------------------------|--------------------|---------------|
|   | IFGain:Low           | #Atten: 40 dB                |             |              |                                | NUUNA              | Select Marker |
| dB/div Ref 30.00 dBm  |                      |                              |             | N            | Akr3 2.9<br>8.72               | dBm                | 3             |
| 99<br>00<br>00  | trade X2             | الإجريا والمعاولة والمقاربين | 3.2         | beunaulyksu  | they begins                    | renslithe          | Norma         |
| 00  |                      |                              |             |              |                                |                    | Delta         |
| 0.0 × |                      |                              |             |              |                                |                    | Fixed         |
| enter 5.200000000 GHz<br>es BW 8 MHz  | #VBW                 | 8.0 MHz                      |             | Sweep 5.0    | Spa<br>100 ms (10              | an 0 Hz<br>01 pts) | 01            |
| KR MODE TRC SDL X   | 1.305 ms (A)         | 2,48 dB                      | FUNCTION FU | NCTION WIDTH | FUNCTION V                     | ALUE               |               |
| 2 F 1 t<br>3 N 1 t  | 1.605 ms<br>2.965 ms | 8.58 dBm<br>8.72 dBm         |             |              |                                |                    | Properties    |
| 4<br>5<br>6<br>7  |                      |                              |             |              |                                |                    |               |

### 802.11n HT40



# 802.11ac VH80

| enter Freq 5.210000000 GHz<br>PN0: Fast +++ Trig: Free Run  | ALDSVAUTO DS:24:41 PM May 18,<br>Avg Type: Log-Pwr TRACE DS:<br>DET P NUT                     | Frequency                     |
|---|---|-------------------------------|
| IFGain:Low Atten: 40 dB   | Mkr3 1.857 r<br>2.26 dE   | ns Auto Tun                   |
| and a second property of the second property | 142   | Center Free<br>5.210000000 GH |
|   |   | Start Free<br>5.210000000 GH  |
|   |   | Stop Free<br>5.210000000 GH   |
| Δ2 1 t (Δ) 321.0 μs (Δ) 4.11 dB   | Span 0         Span 0           Sweep 3.000 ms (1001 p           NCTION         FUNCTION WOTH |                               |
| 2 F 1 t 1488 ms 202 dBm<br>N 1 t 1967 ms 226 dBm  |   | Freq Offse<br>0 H             |
|   |   |                               |

# 6. 6DB BANDWIDTH MEASUREMENT

#### 6.1.LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum 6 dB emission bandwidth of at least 500 kHz for the band 5.725-5.85 GHz.

#### 6.2.TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer.

a) Set RBW = 100 kHz.

b) Set the video bandwidth (VBW)  $\geq$  3 x RBW.

c)Detector = Peak.

d)Trace mode = max hold.

e)Sweep = auto couple.

f)Allow the trace to stabilize.

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

#### 6.3.TEST SETUP



## Test Data

| Table 11 6dB Bandwidth T | Fest Data 802.11a |
|--------------------------|-------------------|
|--------------------------|-------------------|

| CHANNEL   | 6dB       |         |
|-----------|-----------|---------|
| FREQUENCY | BANDWIDTH | results |
| (MHz)     | (MHz)     |         |
| 5745      | 16.39     | Pass    |
| 5785      | 16.39     | Pass    |
| 5825      | 16.39     | Pass    |

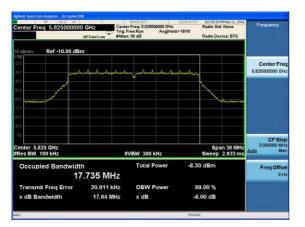




| Table | 12 6dB | Bandwidth | Test Data | 802.11n HT20 |
|-------|--------|-----------|-----------|--------------|
|-------|--------|-----------|-----------|--------------|

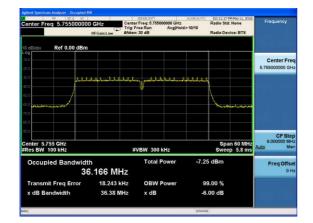
| CHANNEL   | 6dB       |         |
|-----------|-----------|---------|
| FREQUENCY | BANDWIDTH | results |
| (MHz)     | (MHz)     |         |
| 5745      | 17.62     | Pass    |
| 5785      | 17.61     | Pass    |
| 5825      | 17.64     | Pass    |

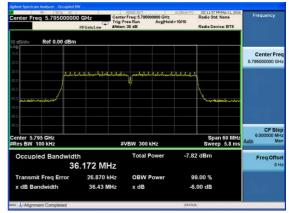




| CHANNEL   | 6dB       |         |  |  |
|-----------|-----------|---------|--|--|
| FREQUENCY | BANDWIDTH | results |  |  |
| (MHz)     | (MHz)     |         |  |  |
| 5755      | 36.38     | Pass    |  |  |
| 5795      | 36.43     | Pass    |  |  |

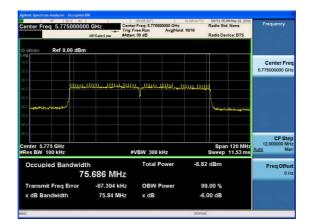






|              | <b>–</b> • • • • • |           |               |
|--------------|--------------------|-----------|---------------|
| Table 14 6dB | Bandwidth          | Lest Data | 802.11ac VH80 |
|              |                    |           |               |

| CHANNEL   | 6dB       |         |
|-----------|-----------|---------|
| FREQUENCY | BANDWIDTH | results |
| (MHz)     | (MHz)     |         |
| 5775      | 75.84     | Pass    |



# 7. 26DB BANDWIDTH MEASUREMENT

### 7.1.LIMITS OF 26dB BANDWIDTH MEASUREMENT

None; for reporting purposes only...

#### 7.2.TEST PROCEDURE

- a) Set RBW = approximately 1% of the emission bandwidth.
- b) Set the VBW > RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.

e) Measure the maximum width of the emission that is 26 dB down from the maximum of the

emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat

measurement as needed until the RBW/EBW ratio is approximately 1%.

#### 7.3.TEST SETUP



#### 7.4. Test Data

| CHANNEL   | 26dB      |         |
|-----------|-----------|---------|
| FREQUENCY | BANDWIDTH | results |
| (MHz)     | (MHz)     |         |
| 5180      | 21.58     | Pass    |
| 5200      | 21.66     | Pass    |
| 5240      | 21.60     | Pass    |

#### Table 15 26dB Bandwidth Test Data 5150~5250 MHz 802.11a

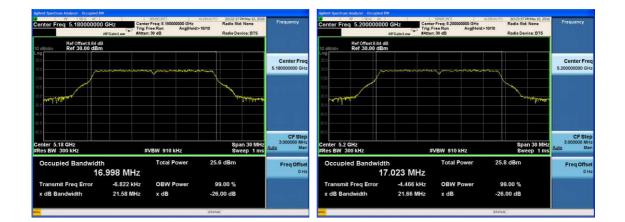
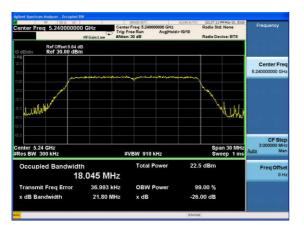




Table 16 26dB Bandwidth Test Data 5150~5250 MHz 802.11n HT20

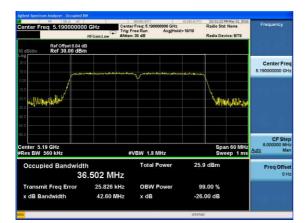
| CHANNEL<br>FREQUENCY<br>(MHz) | 26dB<br>BANDWIDTH<br>(MHz) | results |
|-------------------------------|----------------------------|---------|
| 5180                          | 21.85                      | Pass    |
| 5200                          | 21.94                      | Pass    |
| 5240                          | 21.80                      | Pass    |

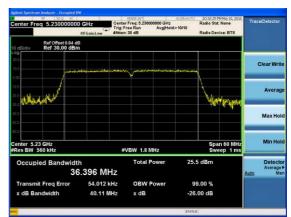




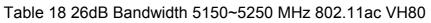
| Table 17 26dE | Bandwidth | 5150~5250 | MHz 80 | 2 11n HT40 |
|---------------|-----------|-----------|--------|------------|
|               | Danawiati | 0100 0200 |        |            |

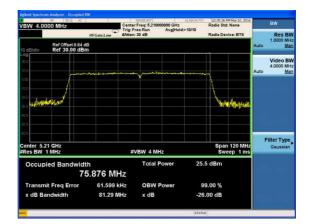
| CHANNEL<br>FREQUENCY | 26dB<br>BANDWIDTH | results |
|----------------------|-------------------|---------|
| (MHz)                | (MHz)             | roodito |
| 5190                 | 42.60             | Pass    |
| 5230                 | 40.11             | Pass    |





| CHANNEL   | 26dB      |         |
|-----------|-----------|---------|
| FREQUENCY | BANDWIDTH | results |
| (MHz)     | (MHz)     |         |
| 5210      | 81.29     | Pass    |





| CHANNEL   | 26dB      |         |
|-----------|-----------|---------|
| FREQUENCY | BANDWIDTH | results |
| (MHz)     | (MHz)     |         |
| 5745      | 21.93     | Pass    |
| 5785      | 21.80     | Pass    |
| 5825      | 21.73     | Pass    |

Table 19 26dB Bandwidth Test Data 5725~5850 MHz 802.11a



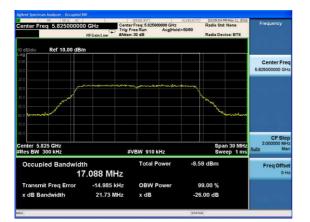
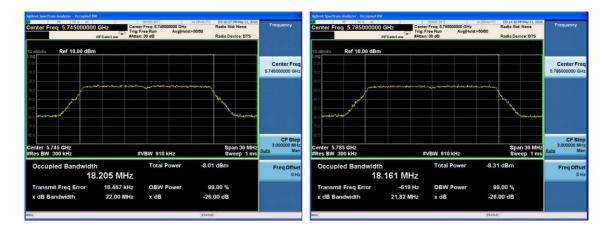
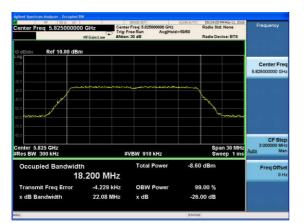


Table 20 26dB Bandwidth Test Data 5725~5850 MHz 802.11n HT20

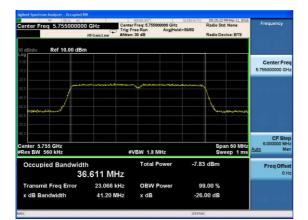
| CHANNEL<br>FREQUENCY | 26dB<br>BANDWIDTH | results |
|----------------------|-------------------|---------|
| (MHz)                | (MHz)             |         |
| 5745                 | 22.00             | Pass    |
| 5785                 | 21.82             | Pass    |
| 5825                 | 22.08             | Pass    |





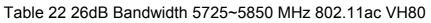
| Table 21 26dB Bandwidth 5725~5850 MHz 802.11n HT40 |
|--|
|--|

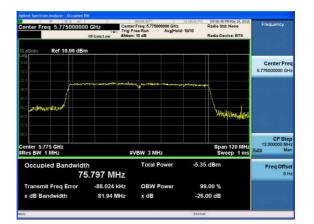
| CHANNEL   | 26dB      |         |
|-----------|-----------|---------|
| •••••==   |           |         |
| FREQUENCY | BANDWIDTH | results |
| (MHz)     | (MHz)     |         |
| 5755      | 41.20     | Pass    |
| 5795      | 40.89     | Pass    |





| CHANNEL   | 26dB      |         |
|-----------|-----------|---------|
| FREQUENCY | BANDWIDTH | results |
| (MHz)     | (MHz)     |         |
| 5775      | 81.94     | Pass    |





# 8. 99% OCCUPIED BANDWIDTH

#### 8.1.LIMITS OF 99%Occupied Bandwidth

None; for reporting purposes only

#### **8.2.TEST PROCEDURE**

The following procedure shall be used for measuring (99 %) power bandwidth:

- 1. Set center frequency to the nominal EUT channel center frequency.
- 2. Set span = 1.5 times to 5.0 times the OBW.
- 3. Set RBW = 1 % to 5 % of the OBW
- 4. Set VBW  $\geq$  3 RBW

5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode

shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be

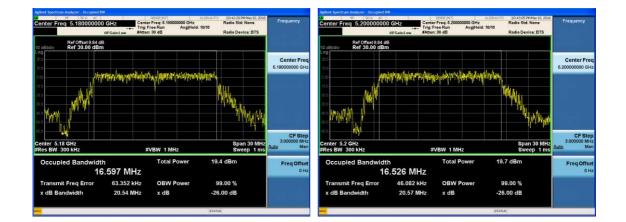
used.

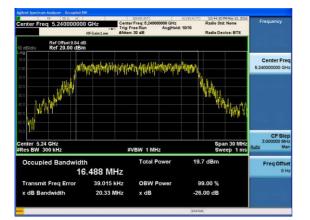
6. Use the 99 % power bandwidth function of the instrument (if available).

#### 8.3.TEST DATA

| CHANNEL   | 99%       |         |
|-----------|-----------|---------|
| FREQUENCY | BANDWIDTH | results |
| (MHz)     | (MHz)     |         |
| 5180      | 16.597    | Pass    |
| 5200      | 16.526    | Pass    |
| 5240      | 16.488    | Pass    |

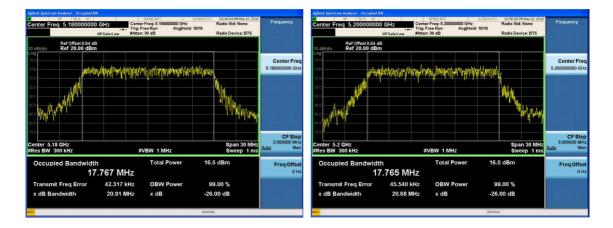


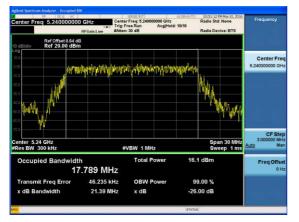




| CHANNEL   | 99%       |         |
|-----------|-----------|---------|
| FREQUENCY | BANDWIDTH | results |
| (MHz)     | (MHz)     |         |
| 5180      | 17.767    | Pass    |
| 5200      | 17.765    | Pass    |
| 5240      | 17.789    | Pass    |

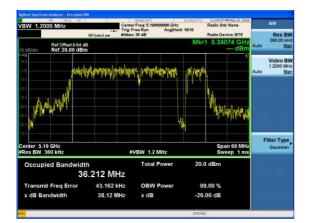
#### Table 24 99% Bandwidth Test Data 5150~5250 MHz 802.11n HT20

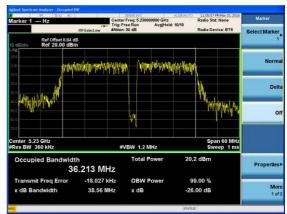




| Table 25 99% | Bandwidth | 5150~5250 | MHz 8 | 302 11n HT40 |
|--------------|-----------|-----------|-------|--------------|
|              | Danamatri | 0100 0200 |       |              |

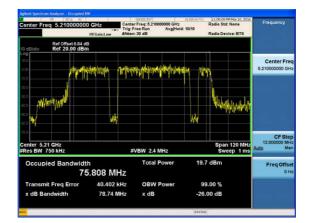
| CHANNEL<br>FREQUENCY | 99%<br>BANDWIDTH | results |
|----------------------|------------------|---------|
| (MHz)                | (MHz)            |         |
| 5190                 | 36.212           | Pass    |
| 5230                 | 36.213           | Pass    |





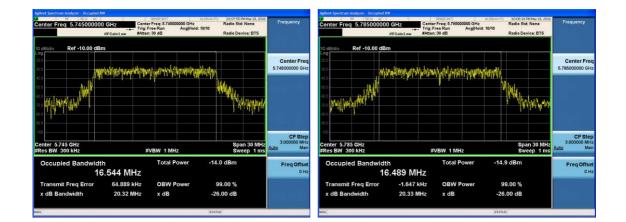
| CHANNEL   | 99%       |         |
|-----------|-----------|---------|
| FREQUENCY | BANDWIDTH | results |
| (MHz)     | (MHz)     |         |
| 5210      | 75.808    | Pass    |

### Table 26 99% Bandwidth 5150~5250 MHz 802.11ac VH80



| CHANNEL   | 99%       |         |
|-----------|-----------|---------|
| FREQUENCY | BANDWIDTH | results |
| (MHz)     | (MHz)     |         |
| 5745      | 16.544    | Pass    |
| 5785      | 16.489    | Pass    |
| 5825      | 16.535    | Pass    |

Table 27 99% Bandwidth Test Data 5725~5850 MHz 802.11a



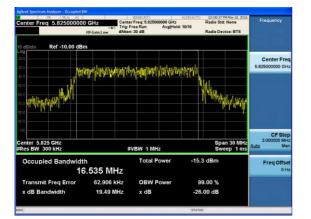
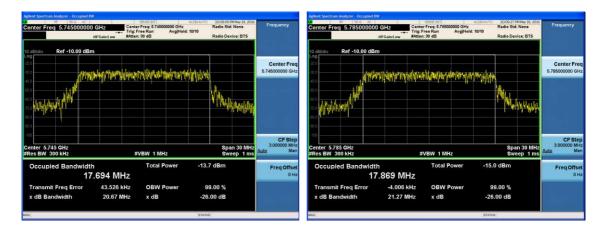
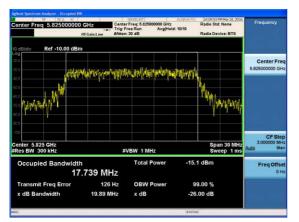


Table 28 99% Bandwidth Test Data 5725~5850 MHz 802.11n HT20

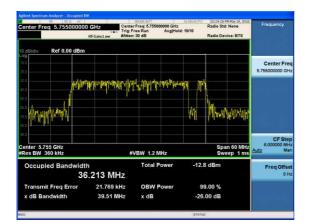
| CHANNEL<br>FREQUENCY | 99%<br>BANDWIDTH | results |
|----------------------|------------------|---------|
| (MHz)                | (MHz)            |         |
| 5745                 | 17.694           | Pass    |
| 5785                 | 17.869           | Pass    |
| 5825                 | 17.739           | Pass    |

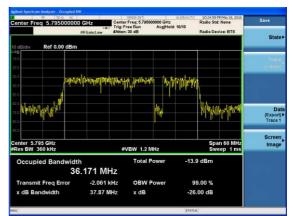




#### Table 29 99% Bandwidth 5725~5850 MHz 802.11n HT40

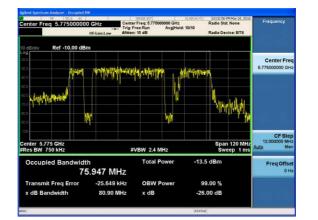
| CHANNEL   | 99%       |         |
|-----------|-----------|---------|
| FREQUENCY | BANDWIDTH | results |
| (MHz)     | (MHz)     |         |
| 5755      | 36.229    | Pass    |
| 5795      | 36.171    | Pass    |





| CHANNEL   | 99%       |         |
|-----------|-----------|---------|
| FREQUENCY | BANDWIDTH | results |
| (MHz)     | (MHz)     |         |
| 5775      | 75.947    | Pass    |

# Table 30 99% Bandwidth 5725~5850 MHz 802.11ac VH80



# 9. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

### 9.1.LIMITS OF Maximum Conducted Output Power Measurement

CFR 47 (FCC) part 15.2407 (a)

For the band 5.15–5.25 GHz.

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the max-imum antenna gain does not exceed 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W

RSS-247 Clause 6.2

For the band 5.15–5.25 GHz.

The maximum e.i.r.p. shall not exceed 200 mW or  $10 + 10 \log 10$  B, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz. For the band 5.725-5.85 GHz, the maximum conducted output power shall not exceed 1 W.

#### 9.2.TEST PROCEDURE

(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.

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 overboth 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%).the measurement result.

## 9.3.TEST SETUP



# 9.4.TEST DATA

## Maximum Conducted Output Powe(FCC)

| Center<br>Freq.[MHz] | Meas.<br>Level<br>(Cond.)<br>[dBm] | Duty<br>Factor | Maximum<br>Conducted<br>Output<br>Power(Average)<br>[dBm] | Limit<br>[dBm] | Result |
|----------------------|------------------------------------|----------------|---|----------------|--------|
| 5180                 | 13.11                              | 0.14           | 13.25   | < 23.98        | Pass   |
| 5200                 | 13.53                              | 0.14           | 13.67   | < 23.98        | Pass   |
| 5240                 | 13.82                              | 0.14           | 13.96   | < 23.98        | Pass   |
| 5745                 | -12.25                             | 0.14           | -12.11  | < 30           | Pass   |
| 5785                 | -12.80                             | 0.14           | -12.66  | < 30           | Pass   |
| 5825                 | -13.18                             | 0.14           | -13.04  | < 30           | Pass   |

#### Table 31 Maximum Conducted Output Power Test Data 802.11a

#### Table 32 Maximum Conducted Output Power Test Data 802.11n HT20

| Center<br>Freq.[MHz] | Meas. Level<br>(Cond.)<br>[dBm] | Duty<br>Factor | Maximum<br>Conducted<br>Output<br>Power(Average)<br>[dBm] | Limit<br>[dBm] | Result |
|----------------------|---------------------------------|----------------|---|----------------|--------|
| 5180                 | 12.82                           | 0.15           | 12.97   | < 23.98        | Pass   |
| 5200                 | 13.35                           | 0.15           | 13.50   | < 23.98        | Pass   |
| 5240                 | 13.67                           | 0.15           | 13.82   | < 23.98        | Pass   |
| 5745                 | -12.02                          | 0.15           | -11.87  | < 30           | Pass   |
| 5785                 | -12.56                          | 0.15           | -12.41  | < 30           | Pass   |
| 5825                 | -12.67                          | 0.15           | -12.52  | < 30           | Pass   |

# Table 33 Maximum Conducted Output Power Test Data 802.11n HT40

| Center<br>Freq.[MHz] | Levei  | Duty<br>Factor | Maximum<br>Conducted<br>Output<br>Power(Average)<br>[dBm] | Limit<br>[dBm] | Result |
|----------------------|--------|----------------|---|----------------|--------|
| 5190                 | 13.24  | 0.35           | 13.59   | < 23.98        | Pass   |
| 5230                 | 13.97  | 0.35           | 14.32   | < 23.98        | Pass   |
| 5755                 | -12.32 | 0.35           | -11.97  | < 30           | Pass   |
| 5795                 | -12.92 | 0.35           | -12.67  | < 30           | Pass   |

| (<br>F | Center<br><sup>-</sup> req.[MHz] | Meas. Level<br>(Cond.)<br>[dBm] | Duty<br>Factor |        | Limit<br>[dBm] | Result |
|--------|----------------------------------|---------------------------------|----------------|--------|----------------|--------|
| 5      | 5210                             | 13.23                           | 0.61           | 13.84  | < 23.98        | Pass   |
| Ę      | 5775                             | -12.53                          | 0.61           | -11.92 | < 30           | Pass   |

Table 34 Maximum Conducted Output Power Test Data 802.11ac VH80

Maximum Conducted Output Powe(IC) \_\_\_\_\_Table 35 Maximum Conducted Output Power Test Data 802.11a

| Center<br>Freq.[MHz] | Meas.<br>Level<br>(Cond.)<br>[dBm] | Duty<br>Factor |        | Limit<br>[dBm]    | Result |
|----------------------|------------------------------------|----------------|--------|-------------------|--------|
| 5180                 | 13.11                              | 0.14           | 1325   | < 23 or<br><22.19 | Pass   |
| 5200                 | 13.53                              | 0.14           | 1367   | < 23 or<br><22.17 | Pass   |
| 5240                 | 13.82                              | 0.14           | 13 96  | < 23 or<br><22.18 | Pass   |
| 5745                 | -12.25                             | 0.14           | -12.11 | < 30              | Pass   |
| 5785                 | -12.80                             | 0.14           | -12.66 | < 30              | Pass   |
| 5825                 | -13.18                             | 0.14           | -13.04 | < 30              | Pass   |

#### Table 36 Maximum Conducted Output Power Test Data 802.11n HT20

| Center<br>Freq.[MHz] | Meas. Level<br>(Cond.)<br>[dBm] | Duty<br>Factor | Maximum<br>Conducted<br>Output<br>Power(Average)<br>[dBm] | Limit<br>[dBm]   | Result |
|----------------------|---------------------------------|----------------|---|------------------|--------|
| 5180                 | 12.82                           | 0.15           | 12.97   | <23 or<br><22.48 | Pass   |
| 5200                 | 13.35                           | 0.15           | 13.50   | <23 or<br><22.52 | Pass   |
| 5240                 | 13.67                           | 0.15           | 13.82   | <23 or<br><22.49 | Pass   |
| 5745                 | -12.02                          | 0.15           | -11.87  | < 30             | Pass   |
| 5785                 | -12.56                          | 0.15           | -12.41  | < 30             | Pass   |
| 5825                 | -12.67                          | 0.15           | -12.52  | < 30             | Pass   |

|      | Meas.<br>Level<br>(Cond.)<br>[dBm] | Duty<br>Factor | Maximum<br>Conducted<br>Output<br>Power(Average)<br>[dBm] | Limit<br>[dBm]    | Result |
|------|------------------------------------|----------------|---|-------------------|--------|
| 5190 | 13.24                              | 0.35           | 13.59   | < 23 or<br><25.59 | Pass   |
| 5230 | 13.97                              | 0.35           | 14.32   | < 23 or<br><25.58 | Pass   |
| 5755 | -12.32                             | 0.35           | -11.97  | < 30              | Pass   |
| 5795 | -12.92                             | 0.35           | -12.67  | < 30              | Pass   |

Table 37 Maximum Conducted Output Power Test Data 802.11n HT40

|--|

| Center<br>Freq.[MHz] | Meas. Level<br>(Cond.)<br>[dBm] | Duty<br>Factor | Maximum<br>Conducted<br>Output<br>Power(Average)<br>[dBm] | Limit<br>[dBm]   | Result |
|----------------------|---------------------------------|----------------|---|------------------|--------|
| 5210                 | 13.23                           | 0.61           | 1 4 8/1   | < 23 or<br>28.80 | Pass   |
| 5775                 | -13.34                          | 0.61           | -12.73  | < 30             | Pass   |

# 10. MAXIMUM POWER SPECTRAL DENSITY LEVEL MEASUREMENT

# 10.1.LIMITS OF Maximum Power Spectral Density Level Measurement

### CFR 47 (FCC) part 15.407 (a)

For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

RSS-247 Clause 6.2

For the band 5.15-5.25 GHz the e.i.r.p. spectral density shall not exceed 10 dBm in any1.0 MHz band

For the band 5.725-5.85 GHz the power spectral density shall not exceed 30 dBm in any 500 kHz band.

## 10.2.TEST PROCEDURE

1.Create an average power spectrum for the EUT operating mode being tested by following the instructions in section II.E.2. for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA-1, SA-2, SA-3, or alternatives to each) and apply it up to, but not including, the step labeled, "Compute power...." (This procedure is required even if the maximum conducted output power measurement was performed using a power meter, method PM.)

2. Use the peak search function on the instrument to find the peak of the spectrum and record its value.

3. Make the following adjustments to the peak value of the spectrum, if applicable:

a) If Method SA-2 or SA-2 Alternative was used, add 10 log (1/x), where x is the duty cycle, to the peak of the spectrum.

b) If Method SA-3 Alternative was used and the linear mode was used in step II.E.2.g)(viii), add 1 dB to the final result to compensate for the difference between linear averaging and power averaging.

4. The result is the Maximum PSD over 1 MHz reference bandwidth.

5. For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the

above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may

need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, "provided that the measured power is integrated over the full reference bandwidth" to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and 789033 D02 General UNII Test Procedures New Rules v01r02 Page 10 integrated over 1 MHz, or 500 kHz bandwidth, the following adjustments to the procedures apply:

a) Set RBW  $\geq 1/T$ , where T is defined in section II.B.I.a).

### b) Set VBW $\geq$ 3 RBW.

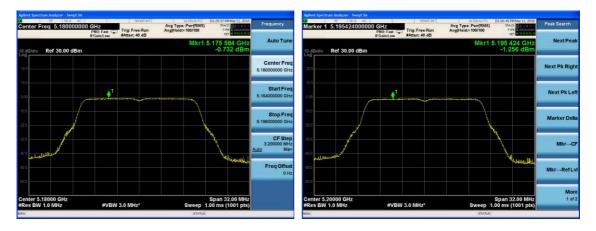
c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10 log (500 kHz/RBW) to the measured result, whereas RBW (< 500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement. d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add 10 log (1MHz/RBW) to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement. e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle. Note: As a practical matter, it is recommended to use reduced RBW of 100 kHz for the sections

5.c) and 5.d) above, since RBW=100 KHZ is available on nearly all spectrum analyzers.

#### 10.3. TEST DATA

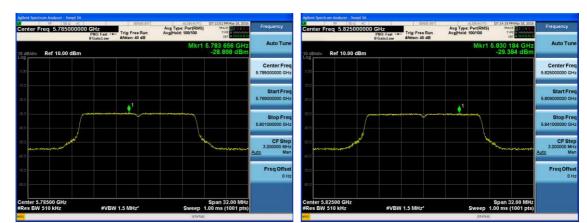
| Center<br>Freq.[MHz] | Meas.Level<br>[dBm] | Duty<br>Factor | Spectral | FCC<br>Limit | IC<br>Limit<br>[dBm] | Result |
|----------------------|---------------------|----------------|----------|--------------|----------------------|--------|
| 5180                 | -0.732              | 0.14           | -0.592   | 11           | 10                   | Pass   |
| 5200                 | -1.256              | 0.14           | -1.116   | 11           | 10                   | Pass   |
| 5240                 | -0.935              | 0.14           | -0.795   | 11           | 10                   | Pass   |
| 5745                 | -28.389             | 0.14           | -28.249  | 30           | 30                   | Pass   |
| 5785                 | -28.898             | 0.14           | -28.758  | 30           | 30                   | Pass   |
| 5825                 | -29.384             | 0.14           | -29.244  | 30           | 30                   | Pass   |

Table 39 Maximum Power Spectral Density Level Test Data 802.11a









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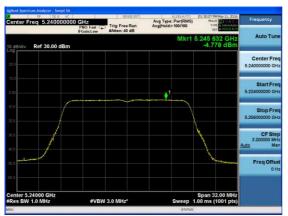
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| Center<br>Freq.[MHz] | Meas.Level<br>[dBm] | Duty<br>Factor | •       | FCC<br>Limit | IC<br>Limit<br>[dBm] | Result |
|----------------------|---------------------|----------------|---------|--------------|----------------------|--------|
| 5180                 | -4.807              | 0.15           | -4.657  | 11           | 10                   | Pass   |
| 5200                 | -4.992              | 0.15           | -4.842  | 11           | 10                   | Pass   |
| 5240                 | -4.778              | 0.15           | -4.628  | 11           | 10                   | Pass   |
| 5745                 | -27.964             | 0.15           | -27.814 | 30           | 30                   | Pass   |
| 5785                 | -29.018             | 0.15           | -28.868 | 30           | 30                   | Pass   |
| 5825                 | -29.803             | 0.15           | -29.653 | 30           | 30                   | Pass   |

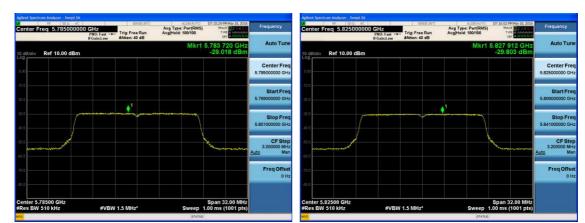
Table 40 Maximum Power Spectral Density Level Test Data 802.11n HT20











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| Center<br>Freq.[MHz] | ivieas.Levei | Duty<br>Factor | Spectral | FCC<br>Limit | IC<br>Limit<br>[dBm] | Result |
|----------------------|--------------|----------------|----------|--------------|----------------------|--------|
| 5190                 | -4.746       | 0.35           | -4.396   | 11           | 10                   | Pass   |
| 5230                 | -3.479       | 0.35           | -3.129   | 11           | 10                   | Pass   |
| 5755                 | -31.568      | 0.35           | -31.218  | 30           | 30                   | Pass   |
| 5795                 | -32.636      | 0.35           | -32.286  | 30           | 30                   | Pass   |

Table 41 Maximum Power Spectral Density Level Test Data 802.11n HT40



| enter Freq 5.7550000                |               | Avg Type: Pwr(RMS)<br>Avg[Hold: 100/100 | 07:16:51 PM May 18, 2016<br>Triacz 2 2 4 4<br>Triat A concentration<br>per A concentration | Frequency                           | Center Freq 5.7950                    | AC SENCE BIT<br>000000 GHz<br>PN0: Fast<br>IFGaint.ew #Atten: 40 dB | Avg Type: Pwr(RMS)<br>Avg[Hold: 100/100  | 07:17:24 PM May 18, 2016<br>TMACE 2:24 PM<br>TVPE A MANAGEMENT<br>DET AUMANNA | Frequency                  |
|-------------------------------------|---------------|---|--|-------------------------------------|---------------------------------------|---|--|---|----------------------------|
| dB/div Ref 10.00 dBm                |               | Mkr1                                    | 5.749 668 GHz<br>-31.568 dBm   | Auto Tune                           | 10 dB/div Ref 10.00 d                 | dBm   | Mkr1 8                                   | 5.788 800 GHz<br>-32.636 dBm  | Auto Tu                    |
|                                     |               |   |  | Center Freq<br>5.755000000 GHz      | B00                                   |   |  |   | Center Fr<br>5.795000000 G |
| α                                   |               |   |  | Start Freq<br>5.724000000 GHz       | -10.0                                 |   |  |   | Start F<br>5.764000000 (   |
|                                     |               | *****                                   |  | Stop Freq<br>5.78600000 GHz         | -30.0                                 | /   | an a |   | Stop F<br>5.826000000      |
| and a second and a second           |               |   | harden   | CF Step<br>6.200000 MHz<br>Auto Man | -52.0<br>                             |   |  | handressen  | CF S<br>6.200000<br>Auto   |
| a                                   |               |   |  | Freq Offset<br>0 Hz                 | -70.0                                 |   |  |   | Freq Of                    |
| enter 5.75500 GHz<br>Res B₩ 510 kHz | #VBW 1.5 MHz* | Sweep                                   | Span 62.00 MHz<br>1.00 ms (1001 pts)   |                                     | Center 5.79500 GHz<br>#Res BW 510 kHz | #VBW 1.5 MHz*   |  | Span 62.00 MHz<br>.00 ms (1001 pts)   |                            |

| Center<br>Freq.[MHz] | ivieas.Levei | Duty<br>Factor | Spectral | FCC<br>Limit | IC<br>Limit<br>[dBm] | Result |
|----------------------|--------------|----------------|----------|--------------|----------------------|--------|
| 5210                 | -7.076       | 0.61           | -6.466   | 11           | 10                   | Pass   |
| 5775                 | -32.730      | 0.61           | -32.12   | 30           | 30                   | Pass   |

Table 42 Maximum Power Spectral Density Level Test Data 802.11n VH80



# 11. RADIATED BANDEDGE AND SPURIOUS MEASUREMENT

### 11.1.LIMITS OF Radiated Bandedge and Spurious Measurement

#### FCC Part 15.205 and 15.209

| Frequency Range<br>(MHz) | Field Strength Limit<br>(uV/m) at 3 m | Field Strength Limit<br>(dBuV/m) at 3 m |
|--------------------------|---------------------------------------|---|
| 30 - 88                  | 100                                   | 40                                      |
| 88 - 216                 | 150                                   | 43.5                                    |
| 216 - 960                | 200                                   | 46                                      |
| Above 960                | 500                                   | 54                                      |

FCC Part 15.407(b) and RSS-247 Clause 6.2

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

For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

## 11.2.TEST PROCEDURE

1. The testing follows the guidelines in ANSI C63.10-2013.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.

3. For measurement below 1GHz, the EUT was placed on a turntable with 0.8 meter, above ground. For measurement above 1 GHz, test at FAR, the EUT is placed on a non-conductive table, which is 1.5 meter above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

6. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

7. Use the following spectrum analyzer settings:

(1) Span shall wide enough to fully capture the emission being measured;

(2) Set RBW=100 kHz for f < 1 GHz; VBW >= RBW; Sweep = auto; Detector function = peak; Trace = max hold;

(3) Set RBW = 1 MHz, VBW= 3MHz for f > 1 GHz for peak measurement. Set RBW = 1 MHz, and 1/T (on time) for average measurement.

# 11.3.TEST DATA

#### 9KHz-30MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

Table 43 Radiated Emission Test Data 9k Hz-30MHz

| Frequency<br>MHz | Loss(dB | Antenna<br>Factor(d<br>B) | Readings(d<br>BµV/m) | Level(dBµ<br>V/m) | Turntable<br>Angle(de<br>g) | Antenna<br>Height(m<br>) | Limits(<br>dBµV/m) | Margin(d<br>B) |
|------------------|---------|---------------------------|----------------------|-------------------|-----------------------------|--------------------------|--------------------|----------------|
|                  |         |                           |                      |                   | <br>                        |                          |                    |                |
|                  |         |                           |                      |                   | <br>                        |                          |                    |                |
|                  |         |                           |                      |                   | <br>                        |                          |                    |                |
|                  |         |                           |                      |                   | <br>                        |                          |                    |                |
|                  |         |                           |                      |                   | <br>                        |                          |                    |                |
|                  |         |                           |                      |                   | <br>                        |                          |                    |                |
|                  |         |                           |                      |                   | <br>                        |                          |                    |                |
|                  |         |                           |                      |                   | <br>                        |                          |                    |                |
|                  |         |                           |                      |                   | <br>                        |                          |                    |                |

#### 30MHz-1GHz

Worst case is shown below for 30MHz-1GHz only.

The emissions don't show in following result tables are more than 20dB below the limits.

| Frequency<br>MHz |     | Antenna<br>Factor(d<br>B) | Readings(d<br>BµV/m) | Level(dBµ<br>V/m) | ) | Turntable<br>Angle(de<br>g) | Hoight(m | Limits(<br>dBµV/m) | Margin(d<br>B) |
|------------------|-----|---------------------------|----------------------|-------------------|---|-----------------------------|----------|--------------------|----------------|
| 65.891           | 0.9 | 16.6                      | 23.1                 | 34.7              | V | 0                           | 1.0      | 40                 | 5.3            |
| 581.251          | 3.0 | 10.7                      | 23.1                 | 42.7              | V | 20                          | 1.5      | 46                 | 3.3            |
| 625.095          | 3.2 | 16.6                      | 22.6                 | 44.3              | V | 0                           | 2.0      | 46                 | 1.7            |
| 699.397          | 3.3 | 18.5                      | 19.4                 | 41.2              | V | 20                          | 1.0      | 46                 | 4.8            |
| 750.031          | 3.5 | 18.5                      | 19.5                 | 41.8              | V | 30                          | 1.2      | 46                 | 4.2            |
| 792.032          | 3.6 | 18.8                      | 17.9                 | 40.3              | V | 0                           | 1.0      | 46                 | 5.7            |
| 166.188          | 1.5 | 8.7                       | 25.0                 | 35.2              | Н | 38                          | 1.2      | 43.5               | 8.3            |
| 253.041          | 1.9 | 12.1                      | 23.2                 | 37.2              | Н | 0                           | 1.0      | 46                 | 8.8            |
| 375.029          | 2.3 | 14.3                      | 28.5                 | 45.1              | Н | 0                           | 1.2      | 46                 | 0.9            |
| 567.089          | 2.9 | 16.6                      | 21.7                 | 41.2              | Н | 20                          | 1.0      | 46                 | 4.8            |
| 625.095          | 3.2 | 18.5                      | 22.2                 | 43.9              | Н | 0                           | 1.7      | 46                 | 2.1            |
| 891.069          | 3.9 | 20.1                      | 17.2                 | 41.2              | Н | 0                           | 1.0      | 46                 | 4.8            |

## Table 44 Radiated Emission Test Data 30MHz-1GHz