



**Test Report**  
**AIR-RM3010L-B-K9**

**FCC ID: LDK102094**  
**IC: 2461B-102094**

**5725-5850 MHz**

**Against the following Specifications:**

**CFR47 Part 15.407**

**Cisco Systems**  
170 West Tasman Drive  
San Jose, CA 95134

**Approved by: Bud Chiller**

A handwritten signature in black ink, appearing to read "Bud Chiller", written over a horizontal line.

**Revision: 1**

This report replaces any previously entered test report under EDCS – **1514393**. This test report has been electronically authorized and archived using the CISCO Engineering Document Control system.



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|                                                                           |                                     |
|---------------------------------------------------------------------------|-------------------------------------|
| <b>SECTION 1: OVERVIEW .....</b>                                          | <b>3</b>                            |
| <b>SECTION 2: ASSESSMENT INFORMATION .....</b>                            | <b>4</b>                            |
| 2.1 GENERAL .....                                                         | 4                                   |
| 2.2 DATE OF TESTING.....                                                  | 6                                   |
| 2.3 REPORT ISSUE DATE .....                                               | 6                                   |
| 2.4 TESTING FACILITIES .....                                              | 6                                   |
| 2.5 EQUIPMENT ASSESSED (EUT).....                                         | 6                                   |
| 2.6 EUT DESCRIPTION.....                                                  | 7                                   |
| <b>SECTION 3: RESULT SUMMARY.....</b>                                     | <b>9</b>                            |
| 3.1 RESULTS SUMMARY TABLE .....                                           | 9                                   |
| <b>SECTION 4: SAMPLE DETAILS.....</b>                                     | <b>11</b>                           |
| <b>APPENDIX A: EMISSION TEST RESULTS.....</b>                             | <b>12</b>                           |
| CONDUCTED TEST SETUP DIAGRAM.....                                         | 12                                  |
| TARGET MAXIMUM CHANNEL POWER .....                                        | <b>ERROR! BOOKMARK NOT DEFINED.</b> |
| A.1 6dB BANDWIDTH.....                                                    | 13                                  |
| A.2 99% AND 26dB BANDWIDTH .....                                          | 21                                  |
| A.2 MAXIMUM CONDUCTED OUTPUT POWER/POWER SPECTRAL DENSITY .....           | 29                                  |
| A.4 CONDUCTED SPURIOUS EMISSIONS.....                                     | 37                                  |
| A.5 CONDUCTED BANDEDGE.....                                               | 46                                  |
| <b>APPENDIX B: TEST EQUIPMENT/SOFTWARE USED TO PERFORM THE TEST .....</b> | <b>54</b>                           |
| <b>APPENDIX C: ABBREVIATION KEY AND DEFINITIONS .....</b>                 | <b>55</b>                           |



## **Section 1: Overview**

The samples were assessed against the tests detailed in section 3 under the requirements of the following specifications:

|                        |
|------------------------|
| <b>Specifications:</b> |
| CFR47 Part 15.407      |

Measurements were made in accordance with

- ANSI C63.10:2013
- KDB 789033 D02 General UNII Test Procedures New Rules v01
- KDB 662911 D01 Multiple Transmitter Output
- KDB 558074 D01 Meas Guidance v03r03



## Section 2: Assessment Information

### 2.1 General

This report contains an assessment of an apparatus against Electromagnetic Compatibility Standards based upon tests carried out on the samples submitted. The testing was performed by and for the use of Cisco systems Inc:

With regard to this assessment, the following points should be noted:

- a) The results contained in this report relate only to the items tested and were obtained in the period between the date of the initial assessment and the date of issue of the report. Manufactured products will not necessarily give identical results due to production and measurement tolerances.
- b) The apparatus was set up and exercised using the configuration and modes of operation defined in this report only.
- c) Where relevant, the apparatus was only assessed using the susceptibility criteria defined in this report and the Test Assessment Plan (TAP).
- d) All testing was performed under the following environmental conditions:

|                      |                                      |
|----------------------|--------------------------------------|
| Temperature          | 15°C to 35°C (54°F to 95°F)          |
| Atmospheric Pressure | 860mbar to 1060mbar (25.4" to 31.3") |
| Humidity             | 10% to 75*%                          |
- e) All AC testing was performed at one or more of the following supply voltages:

|                     |
|---------------------|
| 110V 60 Hz (+/-20%) |
|---------------------|

### Units of Measurement

The units of measurements defined in the appendices are reported in specific terms, which are test dependent. Where radiated measurements are concerned these are defined at a particular distance. Basic voltage measurements are defined in units of [dBuV]

As an example, the basic calculation for all measurements is as follows:

$$\text{Emission level [dBuV]} = \text{Indicated voltage level [dBuV]} + \text{Cable Loss [dB]} + \text{Other correction factors [dB]}$$

The combinations of correction factors are dependent upon the exact test configurations [see test equipment lists for further details] and may include:-

Antenna Factors, Pre Amplifier Gain, LISN Loss, Pulse Limiter Loss and Filter Insertion Loss..

Note: to convert the results from dBuV/m to uV/m use the following formula:-

$$\text{Level in uV/m} = \text{Common Antilogarithm} [(X \text{ dBuV/m})/20] = Y \text{ uV/m}$$

## Measurement Uncertainty Values

|                                   |                         |
|-----------------------------------|-------------------------|
| voltage and power measurements    | $\pm 2$ dB              |
| conducted EIRP measurements       | $\pm 1.4$ dB            |
| radiated measurements             | $\pm 3.2$ dB            |
| frequency measurements            | $\pm 2.4 \cdot 10^{-7}$ |
| temperature measurements          | $\pm 0.54^\circ$        |
| humidity measurements             | $\pm 2.3\%$             |
| DC and low frequency measurements | $\pm 2.5\%$             |

Where relevant measurement uncertainty levels have been estimated for tests performed on the apparatus. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=2$ .

Radiated emissions (expanded uncertainty, confidence interval 95%)

|                    |            |
|--------------------|------------|
| 30 MHz - 300 MHz   | +/- 3.8 dB |
| 300 MHz - 1000 MHz | +/- 4.3 dB |
| 1 GHz - 10 GHz     | +/- 4.0 dB |
| 10 GHz - 18GHz     | +/- 8.2 dB |
| 18GHz - 26.5GHz    | +/- 4.1 dB |
| 26.5GHz - 40GHz    | +/- 3.9 dB |

Conducted emissions (expanded uncertainty, confidence interval 95%)

|                |             |
|----------------|-------------|
| 30 MHz – 40GHz | +/- 0.38 dB |
|----------------|-------------|

A product is considered to comply with a requirement if the nominal measured value is below the limit line. The product is considered to not be in compliance in case the nominal measured value is above the limit line.

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**2.2 Date of testing**

February-15 - March-15

**2.3 Report Issue Date**

14-August-2015

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**2.4 Testing facilities**

This assessment was performed by:

**Testing Laboratory**

Cisco Systems, Inc.,  
125 West Tasman Drive  
San Jose, CA 95134, USA

**Registration Numbers for Industry Canada**

| <b>Cisco System Site</b> | <b>Address</b>                                    | <b>Site Identifier</b> |
|--------------------------|---------------------------------------------------|------------------------|
| Building P, 10m Chamber  | 125 West Tasman Dr<br>San Jose, CA 95134          | Company #: 2461N-2     |
| Building P, 5m Chamber   | 125 West Tasman Dr<br>San Jose, CA 95134          | Company #: 2461N-1     |
| Building I, 5m Chamber   | 285 W. Tasman Drive<br>San Jose, California 95134 | Company #: 2461M-1     |

**Testing - Certificate Number: 1178-01****Test Engineers**

John Liscio

**2.5 Equipment Assessed (EUT)**

AIR-RM3010L-B-K9



## 2.6 EUT Description

The AIR-RM3010L-B-K9 Cisco Aironet 802.11ac Radio support the following modes of operation. The modes are further defined in the radio Theory of Operation. The modes included in this report represent the worst case data for all modes.

802.11n/ac - Non HT/VHT20, One Antenna, 6 to 54 Mbps  
802.11n/ac - Non HT/VHT20, Two Antennas, 6 to 54 Mbps  
802.11n/ac - Non HT/VHT20, Three Antennas, 6 to 54 Mbps  
802.11n/ac - Non HT/VHT20, Four Antennas, 6 to 54 Mbps

802.11n/ac - HT/VHT20, One Antenna, M0 to M7, M0 to M9 1ss  
802.11n/ac - HT/VHT20, Two Antennas, M0 to M7, M0 to M9 1ss  
802.11n/ac - HT/VHT20, Three Antennas, M0 to M7, M0 to M9 1ss  
802.11n/ac - HT/VHT20, Four Antennas, M0 to M7, M0 to M9 1ss

802.11n/ac - HT/VHT20 STBC, Two Antennas, M0 to M7, M0 to M9 1ss  
802.11n/ac - HT/VHT20 STBC, Three Antennas, M0 to M7, M0 to M9 1ss  
802.11n/ac - HT/VHT20 STBC, Four Antennas, M0 to M7, M0 to M9 1ss

802.11n/ac - Non HT/VHT40 Duplicate, One Antenna, 6 to 54 Mbps  
802.11n/ac - Non HT/VHT40 Duplicate, Two Antennas, 6 to 54 Mbps  
802.11n/ac - Non HT/VHT40 Duplicate, Three Antennas, 6 to 54 Mbps  
802.11n/ac - Non HT/VHT40 Duplicate, Four Antennas, 6 to 54 Mbps

802.11n/ac - HT/VHT40, One Antenna, M0 to M7, M0 to M9 1ss  
802.11n/ac - HT/VHT40, Two Antennas, M0 to M7, M0 to M9 1ss  
802.11n/ac - HT/VHT40, Three Antennas, M0 to M7, M0 to M9 1ss  
802.11n/ac - HT/VHT40, Four Antennas, M0 to M7, M0 to M9 1ss

802.11n/ac - HT/VHT40 STBC, Two Antennas, M0 to M7, M0 to M9 1ss  
802.11n/ac - HT/VHT40 STBC, Three Antennas, M0 to M7, M0 to M9 1ss  
802.11n/ac - HT/VHT40 STBC, Four Antennas, M0 to M7, M0 to M9 1ss

802.11n/ac - Non HT/VHT80 Duplicate, One Antenna, 6 to 54 Mbps  
802.11n/ac - Non HT/VHT80 Duplicate, Two Antennas, 6 to 54 Mbps  
802.11n/ac - Non HT/VHT80 Duplicate, Three Antennas, 6 to 54 Mbps  
802.11n/ac - Non HT/VHT80 Duplicate, Four Antennas, 6 to 54 Mbps

802.11n/ac - HT/VHT80, One Antenna, M0 to M7, M0 to M9 1ss  
802.11n/ac - HT/VHT80, Two Antennas, M0 to M7, M0 to M9 1ss  
802.11n/ac - HT/VHT80, Three Antennas, M0 to M7, M0 to M9 1ss  
802.11n/ac - HT/VHT80, Four Antennas, M0 to M7, M0 to M9 1ss

802.11n/ac - HT/VHT80 STBC, Two Antennas, M0 to M7, M0 to M9 1ss  
802.11n/ac - HT/VHT80 STBC, Three Antennas, M0 to M7, M0 to M9 1ss  
802.11n/ac - HT/VHT80 STBC, Four Antennas, M0 to M7, M0 to M9 1ss

The following antennas are supported by this product series.  
The data included in this report represent the worst case data for all antennas.



| Frequency              | Part Number      | Antenna Type      | Antenna Gain (dBi) | 2.4G Location Antenna Gain (dBi) | 5G Location Antenna Gain (dBi) | 2.4G WiFi Gain (dBi) | 5G WiFi Gain (dBi) |
|------------------------|------------------|-------------------|--------------------|----------------------------------|--------------------------------|----------------------|--------------------|
| <b>2.4 / 5<br/>GHZ</b> | NA               | WSSI Internal     | 2                  | 3                                | 4                              | -                    | -                  |
|                        | AIR-ANT-LOC-01   | Ring - Omni       | -                  | 0                                | 0                              | -                    | -                  |
|                        | AIR-ANT25-LOC-02 | Omni Array        | -                  | 0                                | 0                              | 0                    | 0                  |
|                        | AIR-ANT25-LOC-03 | Directional Array | -                  | 0                                | 0                              | 0                    | 0                  |

### Section 3: Result Summary

#### 3.1 Results Summary Table

##### Conducted emissions

| Basic Standard                         | Technical Requirements / Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Result |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| FCC 15.407                             | <b>6dB Bandwidth:</b><br>Systems using digital modulation techniques may operate in the 2400-2483.5MHz band. The minimum 6dB bandwidth shall be at least 500 kHz.                                                                                                                                                                                                                                                                                                                                                                                                | Pass   |
| FCC 15.407                             | <b>99% &amp; 26 dB Bandwidth:</b><br>The 99% occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. There is no limit for 99% OBW.<br><br>The 26 dB emission is the 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 26 dB relative to the maximum level measured in the fundamental emission. | Pass   |
| FCC 15.407                             | <b>Output Power:</b><br>For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.                                                                                                                                                                                                                                                                                                                                                                                                               | Pass   |
| FCC 15.407                             | <b>Power Spectral Density:</b><br><b>15.407</b> The maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.                                                                                                                                                                                                                                                                                                                                                                                                                                  | Pass   |
| FCC 15.407                             | <b>Conducted Spurious Emissions / Band-Edge:</b><br>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.                                                                                                                                                                                | Pass   |
| FCC 15.407<br>FCC 15.209<br>FCC 152.05 | <b>Restricted band:</b><br>Unwanted emissions falling within the restricted bands, as defined in FCC 15.205 (a) must also comply with the radiated emission limits specified in FCC 15.209 (a).                                                                                                                                                                                                                                                                                                                                                                  | Pass   |

**Radiated Emissions (General requirements)**

| Basic Standard                         | Technical Requirements / Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Result |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| FCC 15.407<br>FCC 15.209<br>FCC 15.205 | <b>TX Spurious Emissions:</b><br>Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the filed strength limits table in this section.                                                                                                                                                                                                                                                                                                   | Pass   |
| FCC 15.207                             | <b>AC conducted Emissions:</b><br>Except when the requirements applicable to a given device state otherwise, for any radio apparatus equipped to operate from the public utility AC power supply, either directly or indirectly (such as with a battery charger), the radio frequency voltage of emissions conducted back onto the AC power lines in the frequency range of 0.15 MHz to 30 MHz shall not exceed the limits shown in the table in these sections. The more stringent limit applies at the frequency range boundaries. | Pass   |

\* MPE calculation is recorded in a separate report



## Section 4: Sample Details

Note: Each sample was evaluated to ensure that its condition was suitable to be used as a test sample prior to the commencement of testing.

### 4.1 Sample Details

| Sample No. | Equipment Details | Manufacturer  | Hardware Rev. | Firmware Rev. | Software Rev. | Serial Number |
|------------|-------------------|---------------|---------------|---------------|---------------|---------------|
| S01        | AIR-RM3010L-B-K9  | Cisco Systems | P2            | NA            | NA            |               |
| S02*       | AIR-PWR-C         | Meanwell      | A0            | NA            | NA            | EB46E93226    |
| S03        | AIR-RM3010L-B-K9  | Cisco Systems | P2            | NA            | NA            |               |
| S04*       | AIR-PWR-C         | Cisco Systems | A0            | NA            | NA            | DAB1423M7R2   |

(\*) S02 and S04 are support equipment Power supplies for EUT S01 and S03

### 4.2 System Details

| System # | Description      | Samples  |
|----------|------------------|----------|
| 1        | Test Items A1-A4 | S01, S02 |
| 2        | Test Items B1-B3 | S03, S04 |

### 4.3 Mode of Operation Details

| Mode# | Description             | Comments                |
|-------|-------------------------|-------------------------|
| 1     | Continuous Transmitting | Continuous Transmitting |

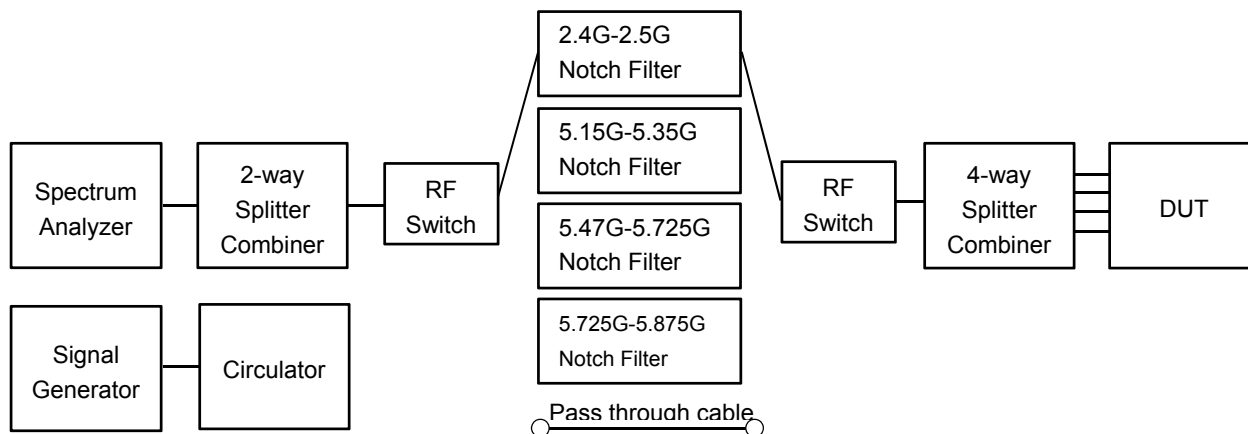
All measurements were made in accordance with

- ANSI C63.10:2013
- KDB 789033 D02 General UNII Test Procedures New Rules v01
- KDB 662911 D01 Multiple Transmitter Output
- KDB 558074 D01 Meas Guidance v03r03

## Appendix A: Emission Test Results

Testing Laboratory: Cisco Systems, Inc., 4125 Highlander Parkway, Richfield, OH, USA

### Conducted Test Setup Diagram



### Target Maximum Channel Power

The following table details the targeted maximum supported Total Channel Powers for all operating modes. Actual measured powers are listed in section A2.

| Operating Mode                          | Maximum Channel Power (dBm) |      |
|-----------------------------------------|-----------------------------|------|
|                                         | Frequency (MHz)             |      |
|                                         | 5745                        | 5785 |
| Non HT/VHT20, M0 to M7, M0 to M9 1-1ss  | 18                          | 23   |
| HT/VHT20 STBC, M0 to M7, M0 to M9 1-1ss | 19                          | 23   |
|                                         | 5755                        | 5795 |
| Non HT/VHT40, M0 to M7, M0 to M9 1-1ss  | 15                          | 21   |
| HT/VHT40 STBC, M0 to M7, M0 to M9 1-1ss | 16                          | 21   |
|                                         | 5775                        | 5825 |
| Non HT/VHT80, M0 to M7, M0 to M9 1-1ss  | 17                          | 20   |
| HT/VHT80 STBC, M0 to M7, M0 to M9 1-1ss | 18                          | 20   |

## A.1 6dB Bandwidth

**15.407** Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

### Test Procedure

Ref. KDB 558074 D01 DTS Meas Guidance v03r03  
ANSI C63.10: 2013

|                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>6 BW</b>                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Test Procedure                                                                                                                                                                                                                                                                                                                                                                                                               |
| <ol style="list-style-type: none"> <li>1. Set the radio in the continuous transmitting mode.</li> <li>2. Allow the trace to stabilize.</li> <li>3. Setting the x-dB bandwidth mode to -6dB within the measurement set up function.</li> <li>4. Select the automatic OBW measurement function of an instrument to perform bandwidth measurement.</li> <li>5. Capture graphs and record pertinent measurement data.</li> </ol> |

Ref. KDB 558074 D01 DTS Meas Guidance v03r03  
ANSI C63.10: 2013 section 11.8.2 Option 2

|                                                                                                                                                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>6 BW</b>                                                                                                                                                                                                                                                         |
| Test parameters                                                                                                                                                                                                                                                     |
| X dB BW = 6dB (using the OBW function of the spectrum analyzer)<br>Span = Large enough to capture the entire EBW<br>RBW = 100 KHz<br>VBW $\geq 3 \times$ RBW<br>Sweep = Auto couple<br>Detector = Peak or where practical sample shall be used<br>Trace = Max. Hold |

| System Number | Description | Samples | System under test                   | Support equipment                   |
|---------------|-------------|---------|-------------------------------------|-------------------------------------|
| 1             | EUT         | S01     | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
|               | Support     | S02     | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

|                                   |                                                   |
|-----------------------------------|---------------------------------------------------|
| <b>Tested By :</b><br>John Liscio | <b>Date of testing:</b><br>February-15 - March-15 |
| <b>Test Result : PASS</b>         |                                                   |

See Appendix C for list of test equipment



| Frequency (MHz) | Mode                                    | Data Rate (Mbps) | 6dB BW (MHz) | Limit (kHz) | Margin (MHz) |
|-----------------|-----------------------------------------|------------------|--------------|-------------|--------------|
| 5745            | Non HT/VHT20, M0 to M7, M0 to M9 1-1ss  | 6                | 16.4         | >500        | 15.9         |
|                 | HT/VHT20 STBC, M0 to M7, M0 to M9 1-1ss | m0               | 17.7         | >500        | 17.2         |
| 5755            | Non HT/VHT40, M0 to M7, M0 to M9 1-1ss  | 6                | 36.4         | >500        | 35.9         |
|                 | HT/VHT40 STBC, M0 to M7, M0 to M9 1-1ss | m0               | 36.3         | >500        | 35.8         |
| 5775            | Non HT/VHT80, M0 to M7, M0 to M9 1-1ss  | 6                | 76.3         | >500        | 75.8         |
|                 | HT/VHT80 STBC, M0 to M7, M0 to M9 1-1ss | m0x1             | 76.6         | >500        | 76.1         |
| 5785            | Non HT/VHT20, M0 to M7, M0 to M9 1-1ss  | 6                | 16.4         | >500        | 15.9         |
|                 | HT/VHT20 STBC, M0 to M7, M0 to M9 1-1ss | m0               | 17.6         | >500        | 17.1         |
| 5795            | Non HT/VHT40, M0 to M7, M0 to M9 1-1ss  | 6                | 36.1         | >500        | 35.6         |
|                 | HT/VHT40 STBC, M0 to M7, M0 to M9 1-1ss | m0               | 36           | >500        | 35.5         |
| 5825            | Non HT/VHT20, M0 to M7, M0 to M9 1-1ss  | 6                | 16.4         | >500        | 15.9         |
|                 | HT/VHT20 STBC, M0 to M7, M0 to M9 1-1ss | m0               | 17.6         | >500        | 17.1         |

Agilent Spectrum Analyzer - Occupied BW

Center Freq 5.74500000 GHz

Center Freq: 5.745000000 GHz  
Trig: Free Run  
#Atten: 10 dB

Radio Std: None  
Radio Device: BTS

Frequency

Center Freq  
5.745000000 GHz

CF Step  
4.000000 MHz

Auto Man

Freq Offset  
0 Hz

10 dB/div  
Log  
Ref Offset 15.17 dB  
Ref 20.00 dBm

Center 5.745 GHz  
#Res BW 100 kHz

#VBW 100 kHz

Span 40 MHz  
#Sweep 5 s

| Occupied Bandwidth  |             | Total Power |          |
|---------------------|-------------|-------------|----------|
| 16.469 MHz          |             | 18.8 dBm    |          |
| Transmit Freq Error | -25.799 kHz | OBW Power   | 99.00 %  |
| x dB Bandwidth      | 16.45 MHz   | x dB        | -6.00 dB |

MSG STATUS

Agilent Spectrum Analyzer - Occupied BW

Center Freq 5.74500000 GHz

Center Freq: 5.74500000 GHz  
Trig: Free Run  
#IFGain: Low  
#Atten: 10 dB

Radio Std: None  
Radio Device: BTS

Frequency

Center Freq  
5.74500000 GHz

CF Step  
4.000000 MHz

Auto

Man

Freq Offset  
0 Hz

10 dB/div  
Log

Ref Offset 15.54 dB  
Ref 20.00 dBm

Center 5.745 GHz  
#Res BW 100 kHz

#VBW 100 kHz

Span 40 MHz  
#Sweep 5 s

Occupied Bandwidth  
17.615 MHz

Total Power  
19.2 dBm

Transmit Freq Error  
-8.753 kHz

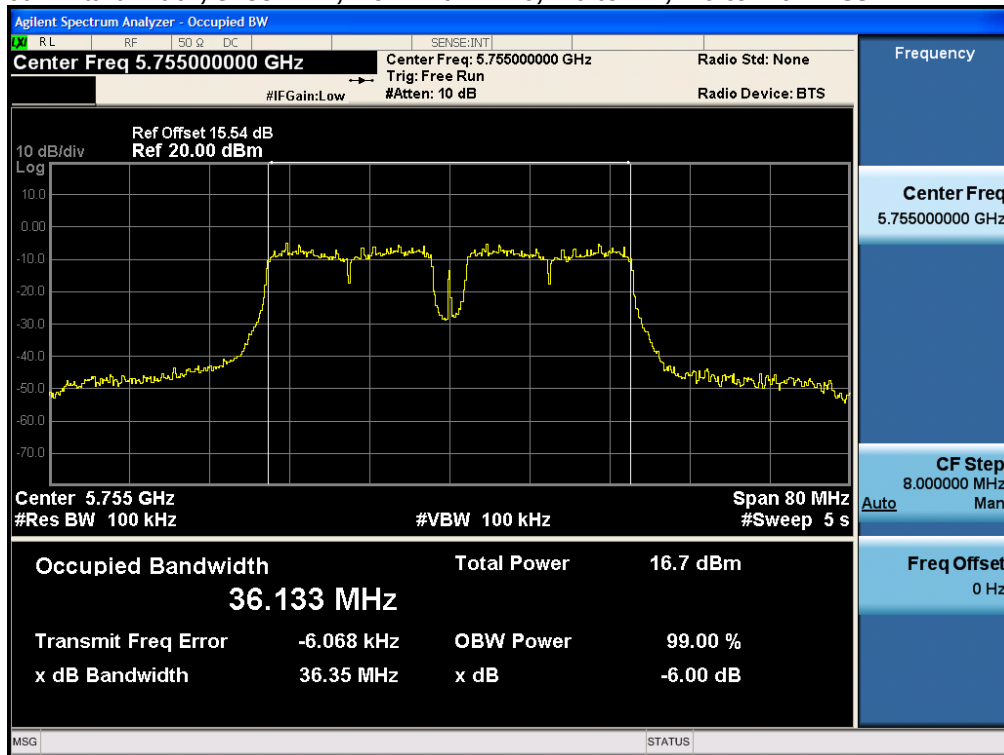
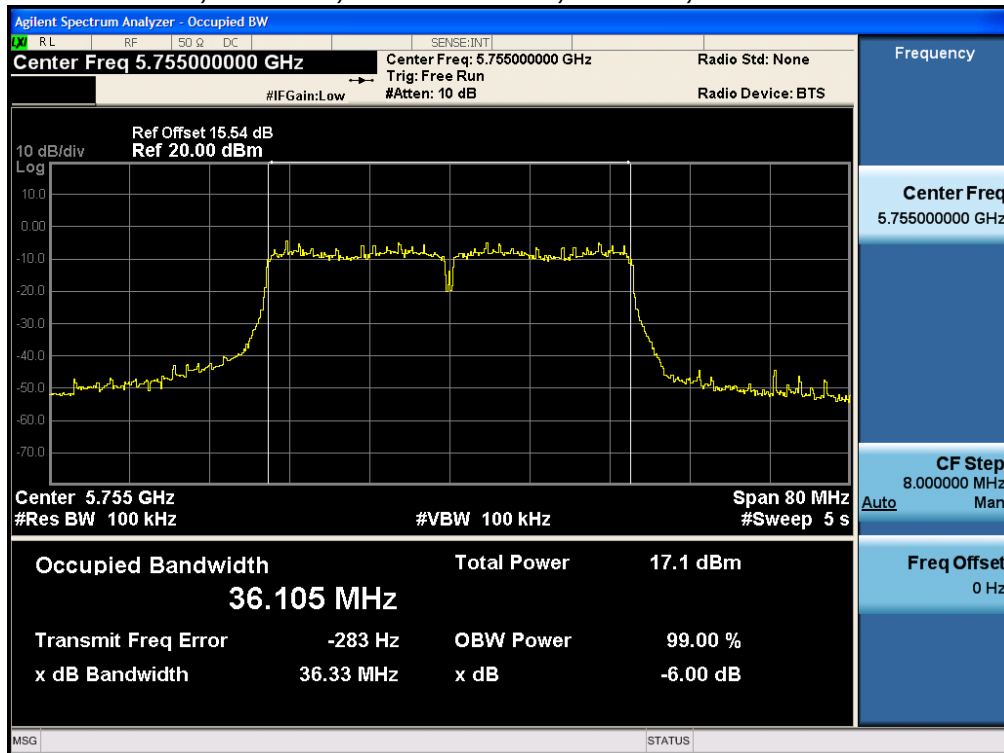
OBW Power  
99.00 %

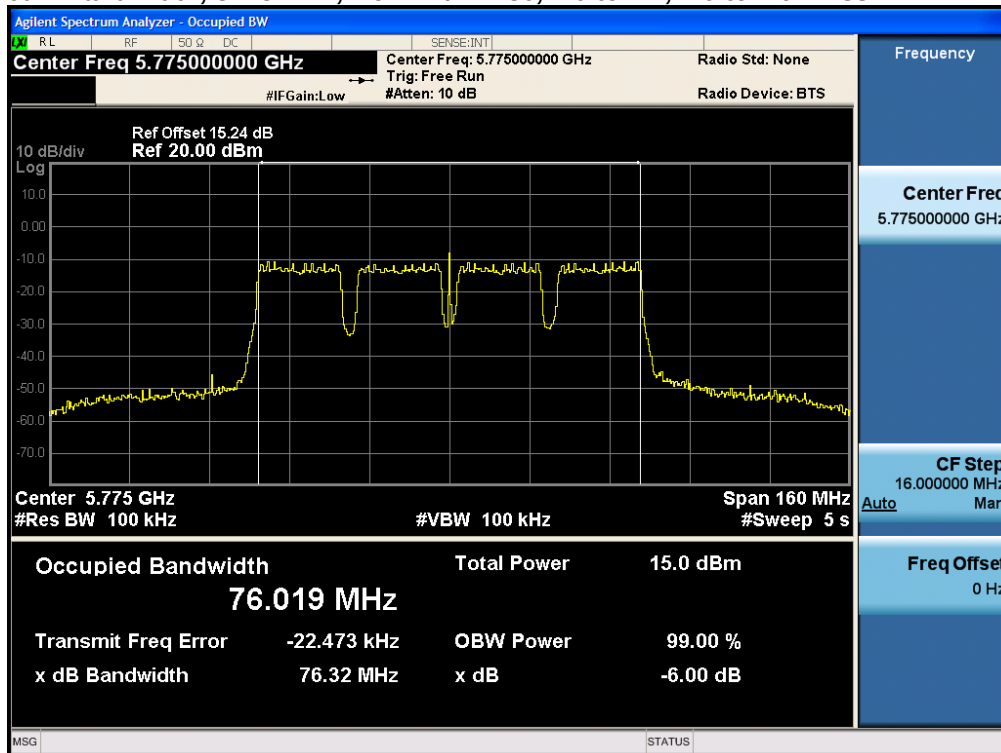
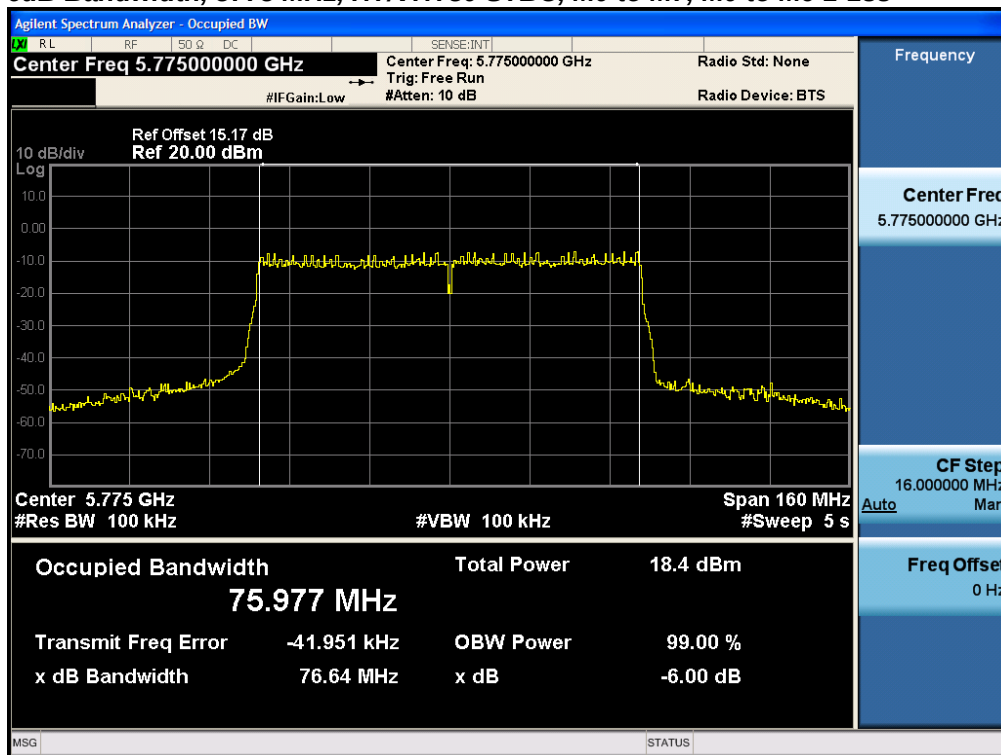
x dB Bandwidth  
17.67 MHz

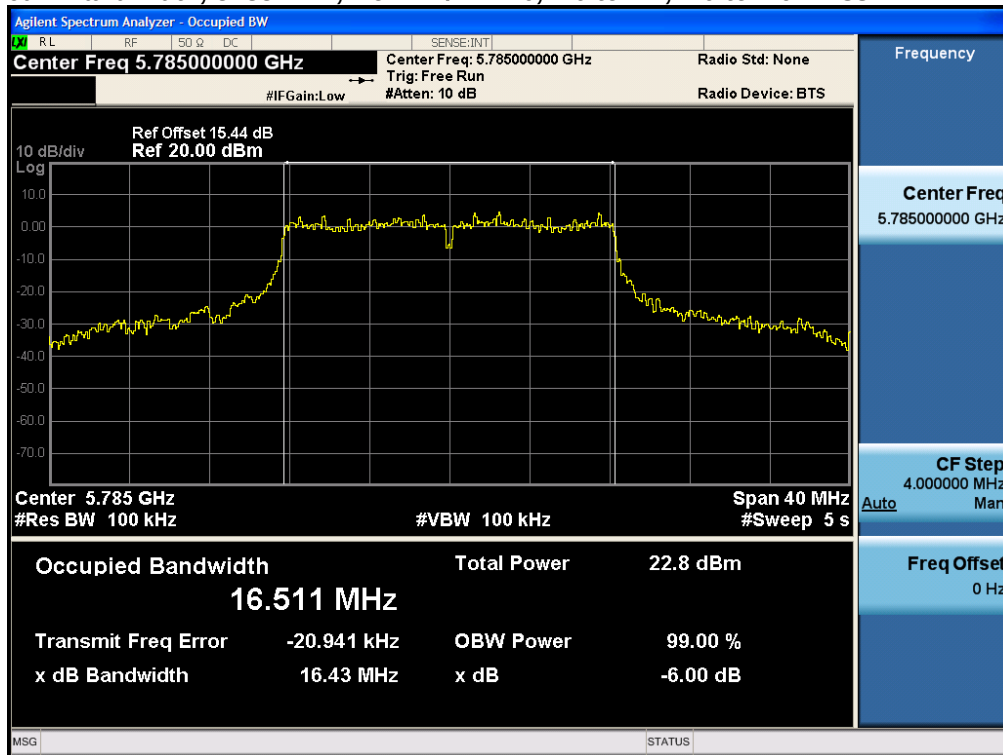
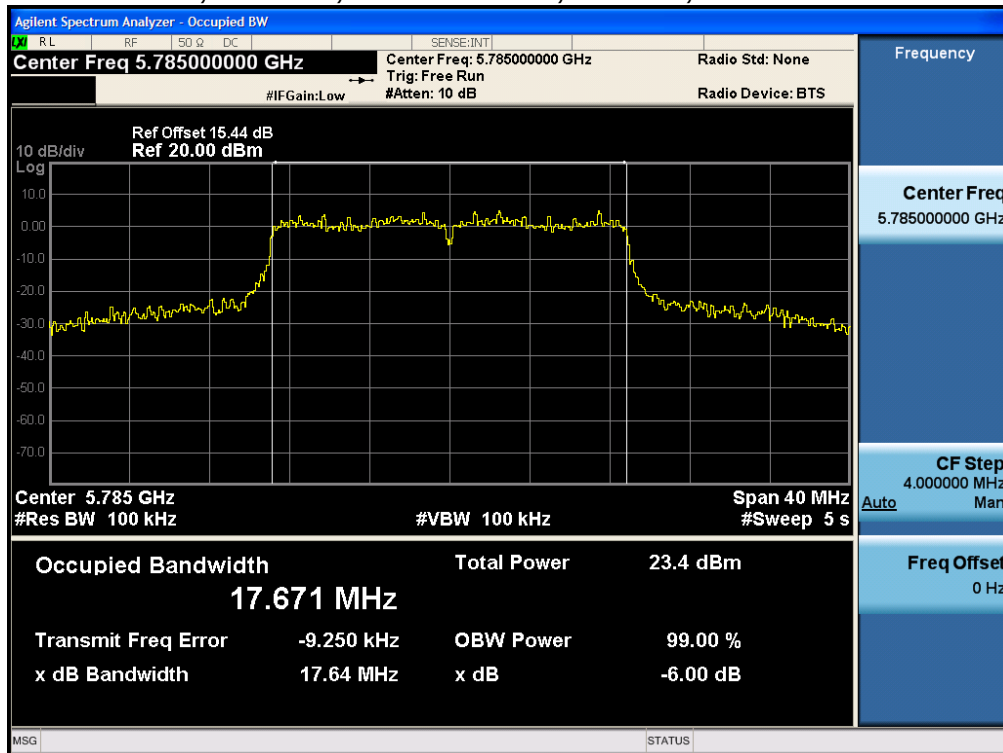
x dB  
-6.00 dB

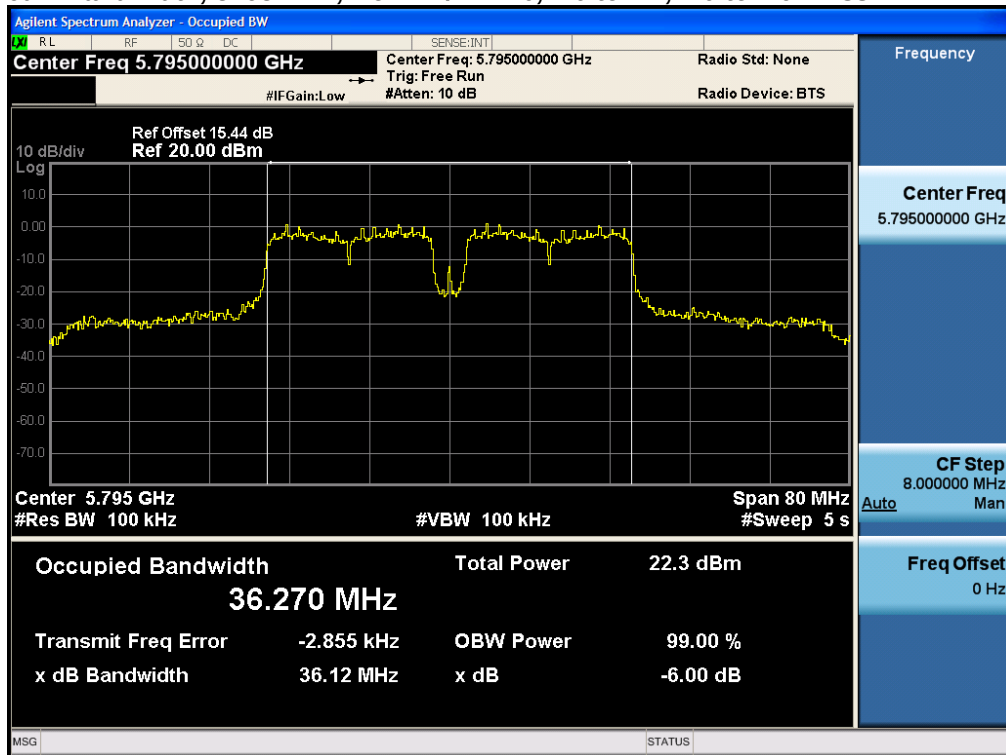
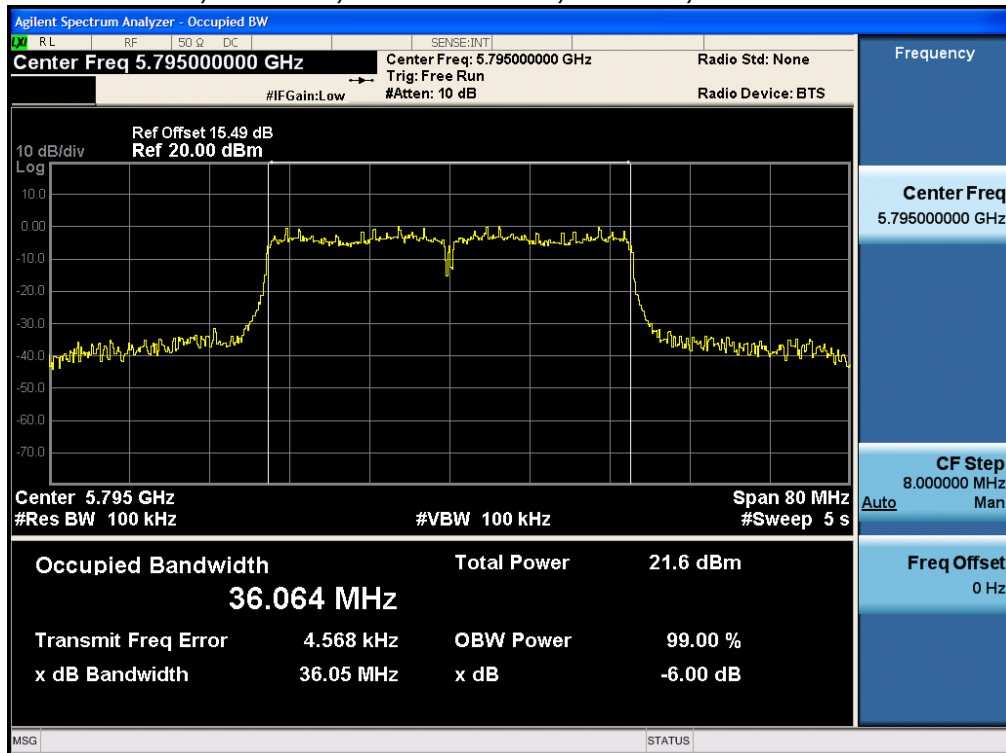
MSG

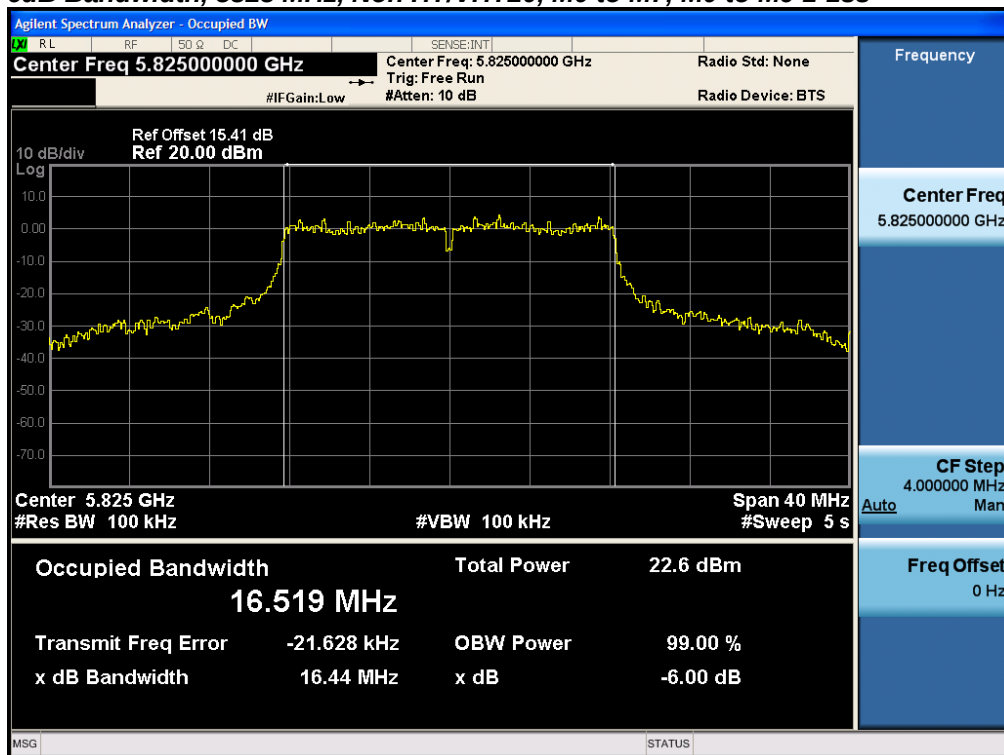
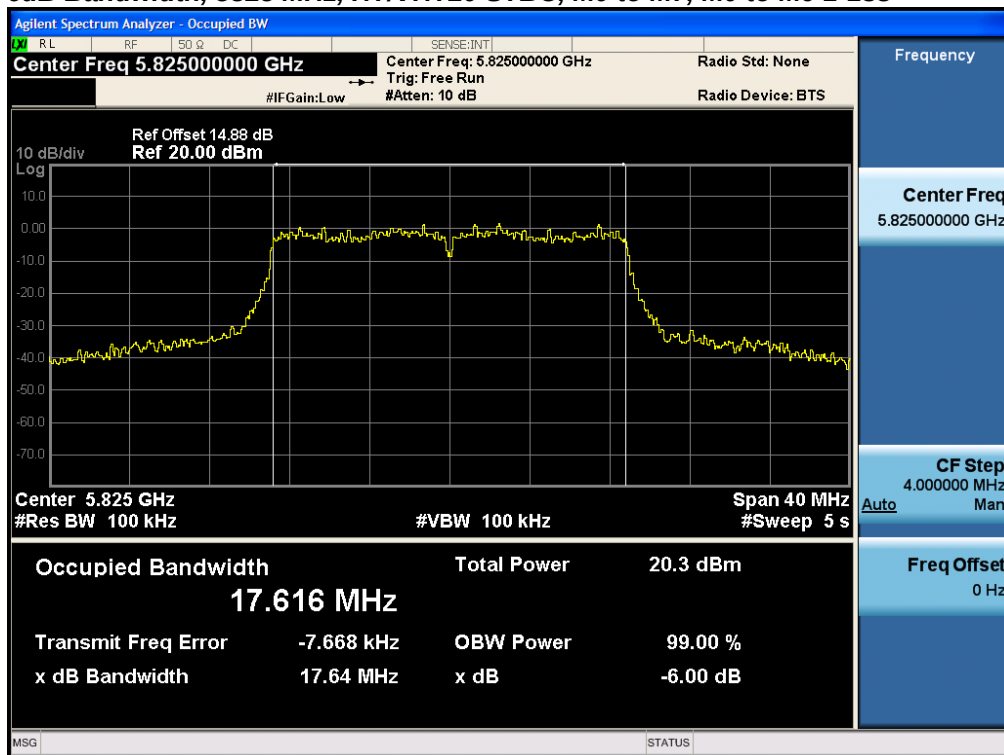
STATUS

**6dB Bandwidth, 5755 MHz, Non HT/VHT40, M0 to M7, M0 to M9 1-1ss****6dB Bandwidth, 5755 MHz, HT/VHT40 STBC, M0 to M7, M0 to M9 1-1ss**

**6dB Bandwidth, 5775 MHz, Non HT/VHT80, M0 to M7, M0 to M9 1-1ss****6dB Bandwidth, 5775 MHz, HT/VHT80 STBC, M0 to M7, M0 to M9 1-1ss**

**6dB Bandwidth, 5785 MHz, Non HT/VHT20, M0 to M7, M0 to M9 1-1ss****6dB Bandwidth, 5785 MHz, HT/VHT20 STBC, M0 to M7, M0 to M9 1-1ss**

**6dB Bandwidth, 5795 MHz, Non HT/VHT40, M0 to M7, M0 to M9 1-1ss****6dB Bandwidth, 5795 MHz, HT/VHT40 STBC, M0 to M7, M0 to M9 1-1ss**

**6dB Bandwidth, 5825 MHz, Non HT/VHT20, M0 to M7, M0 to M9 1-1ss****6dB Bandwidth, 5825 MHz, HT/VHT20 STBC, M0 to M7, M0 to M9 1-1ss**

## A.2 99% and 26dB Bandwidth

**FCC 15.407** The 99% occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. There is no limit for 99% OBW.

The 26 dB emission is the 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 26 dB relative to the maximum level measured in the fundamental emission.

### Test Procedure

Ref. ANSI C63.10: 2013 Section 6.9.3

#### 99% BW and EBW (-26dB)

##### Test Procedure

1. Set the radio in the continuous transmitting mode.
2. Allow the trace to stabilize.
3. Setting the x-dB bandwidth mode to -26dB and OBW power function to 99% within the measurement set up function.
4. Select the automatic OBW measurement function of an instrument to perform bandwidth measurement.
5. Capture graphs and record pertinent measurement data.

Ref. ANSI C63.10: 2013 Section 6.9.3

#### 99% BW and EBW (-26dB)

##### Test parameters

Span = 1.5 x to 5.0 times OBW

RBW = approx. 1% to 5% of the OBW

VBW  $\geq 3 \times$  RBW

Detector = Peak or where practical sample shall be used

Trace = Max. Hold

| System Number | Description | Samples | System under test                   | Support equipment                   |
|---------------|-------------|---------|-------------------------------------|-------------------------------------|
| 1             | EUT         | S01     | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
|               | Support     | S02     | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

Tested By :

John Liscio

Date of testing:

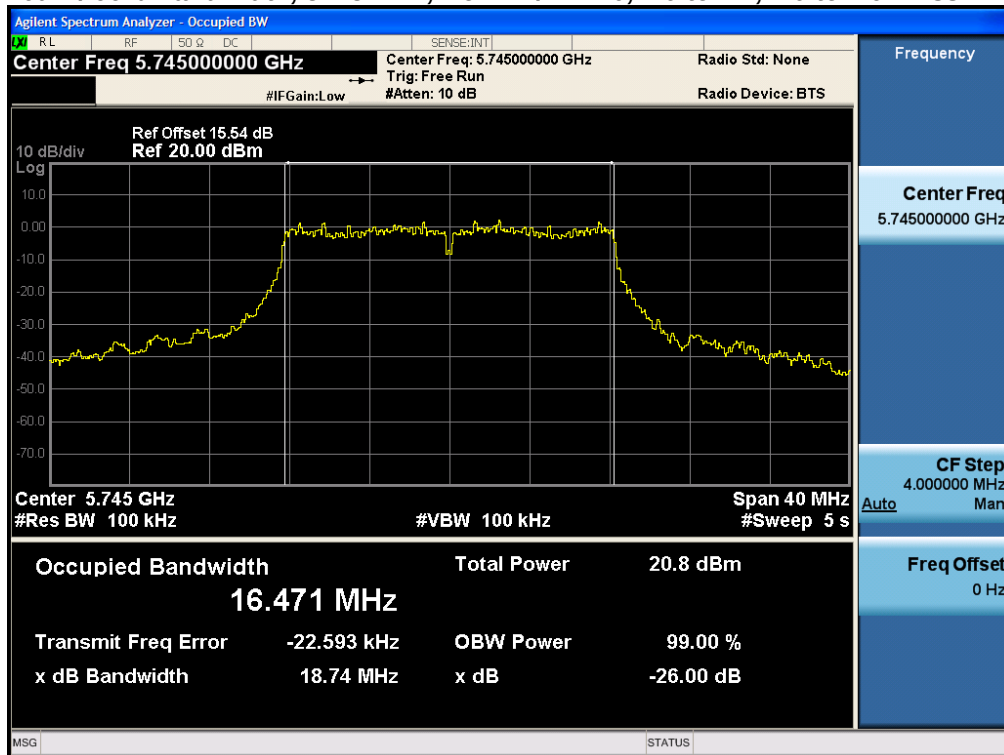
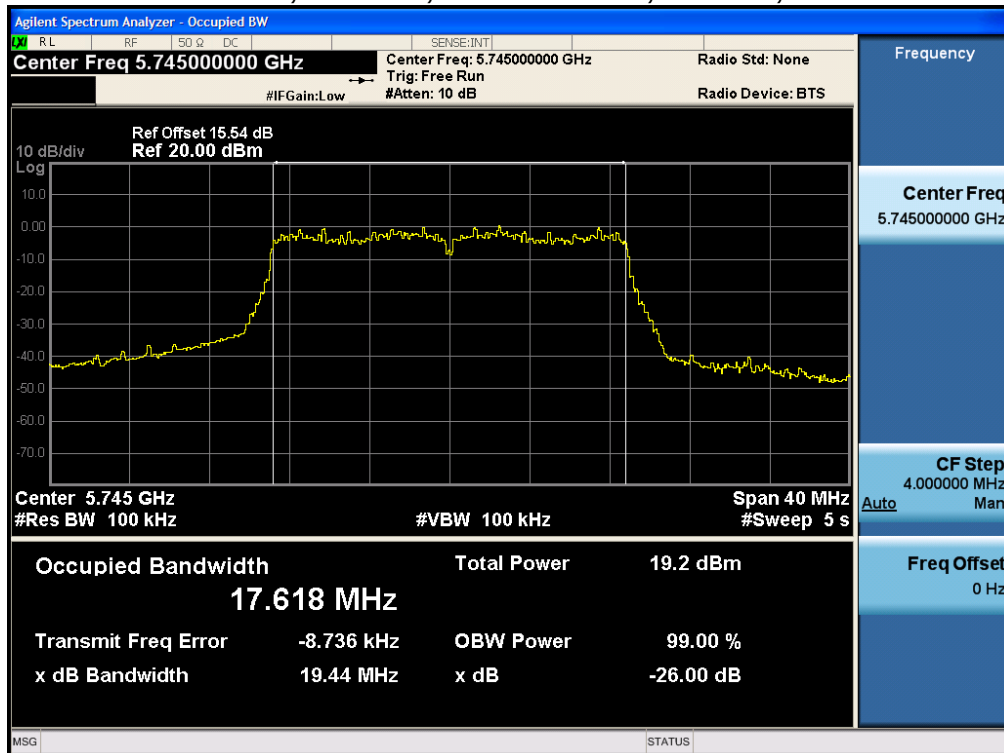
February-15 - March-15

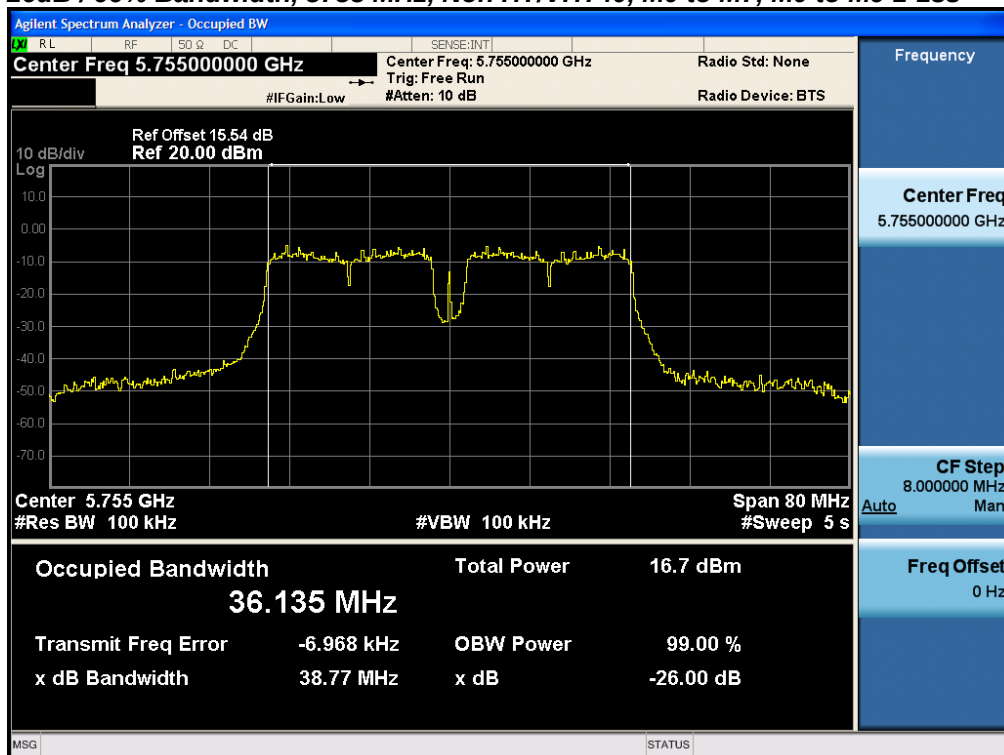
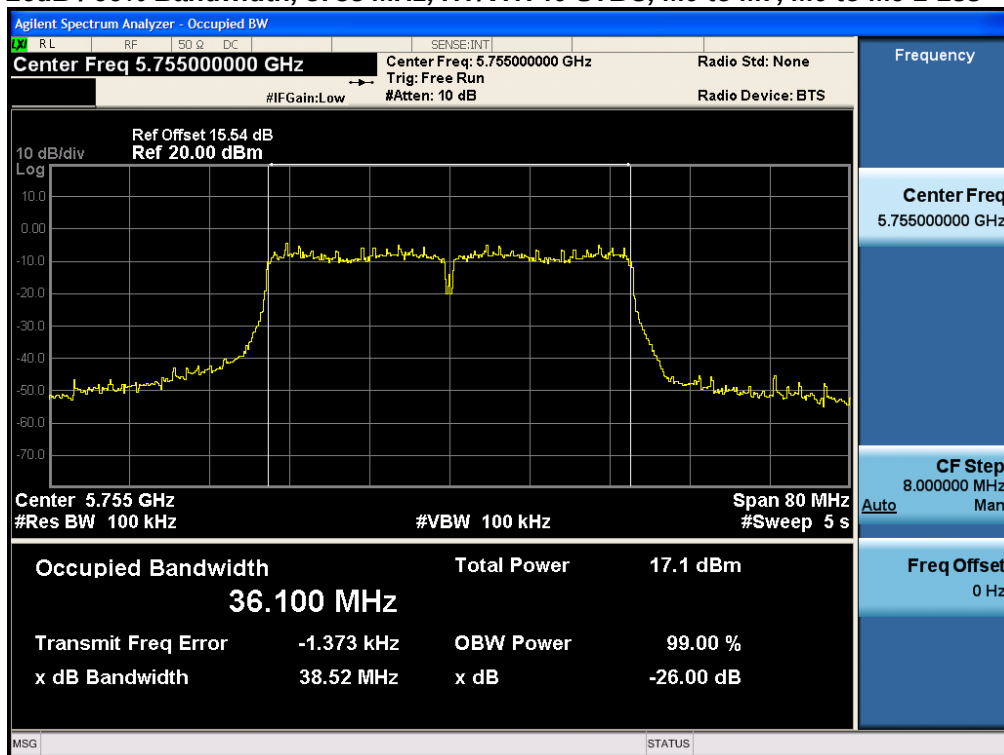
Test Result : PASS

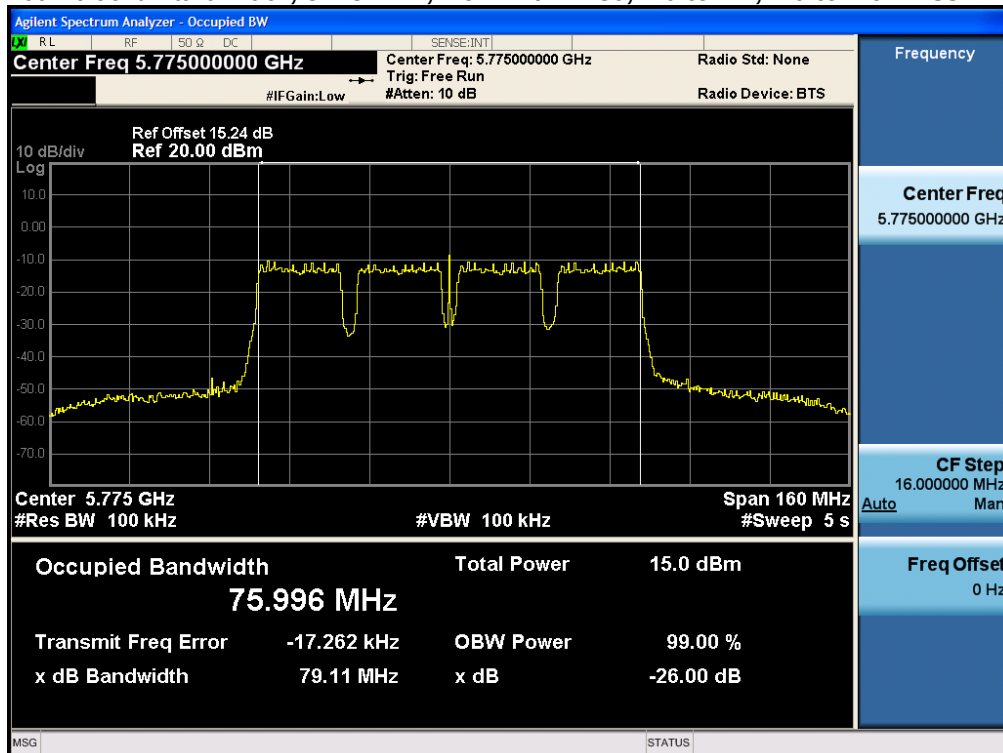
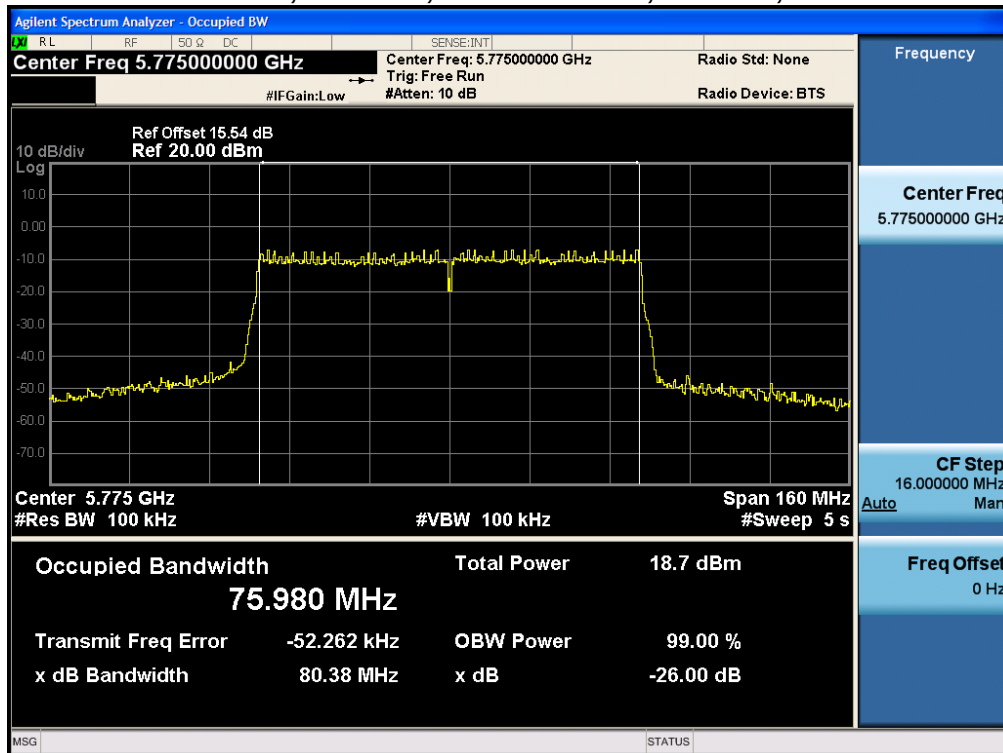
See Appendix C for list of test equipment

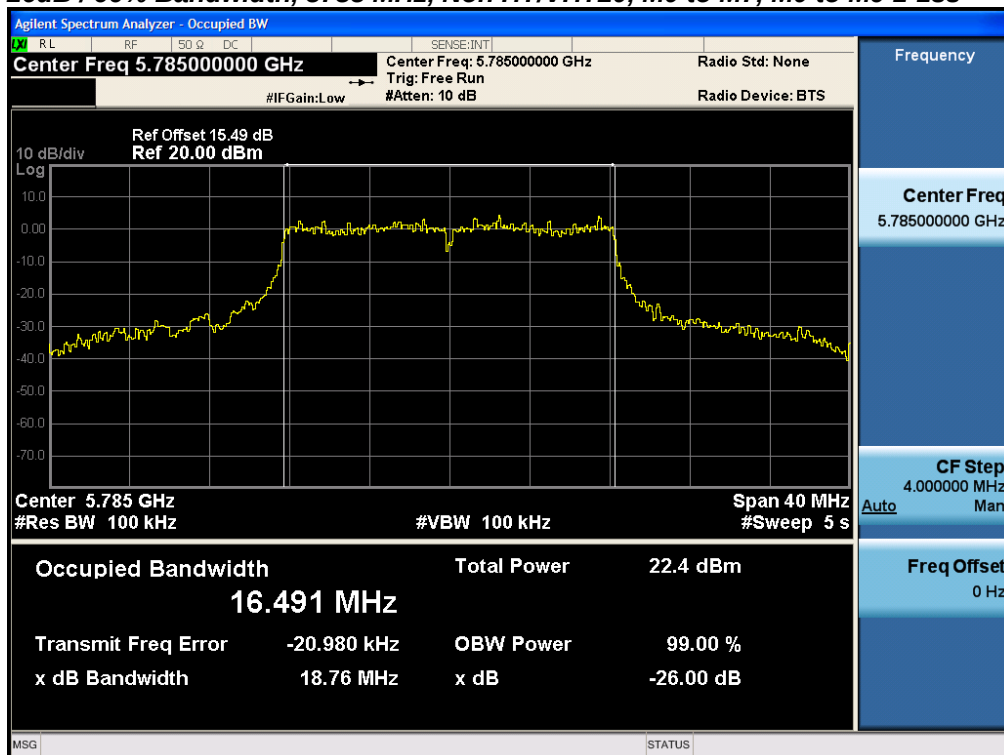
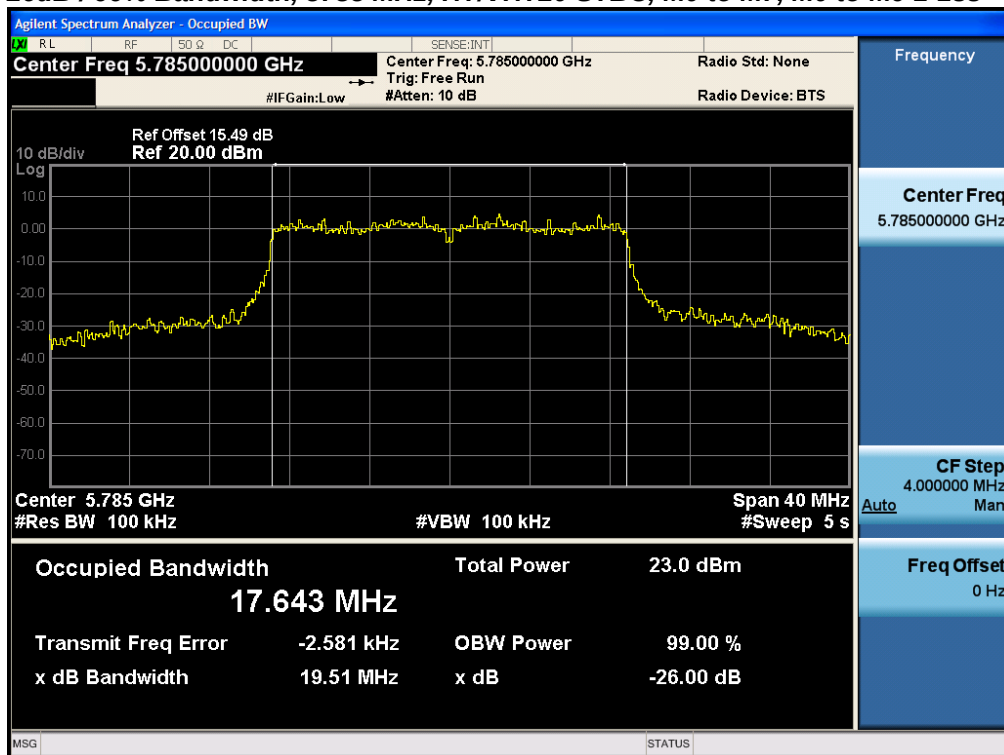


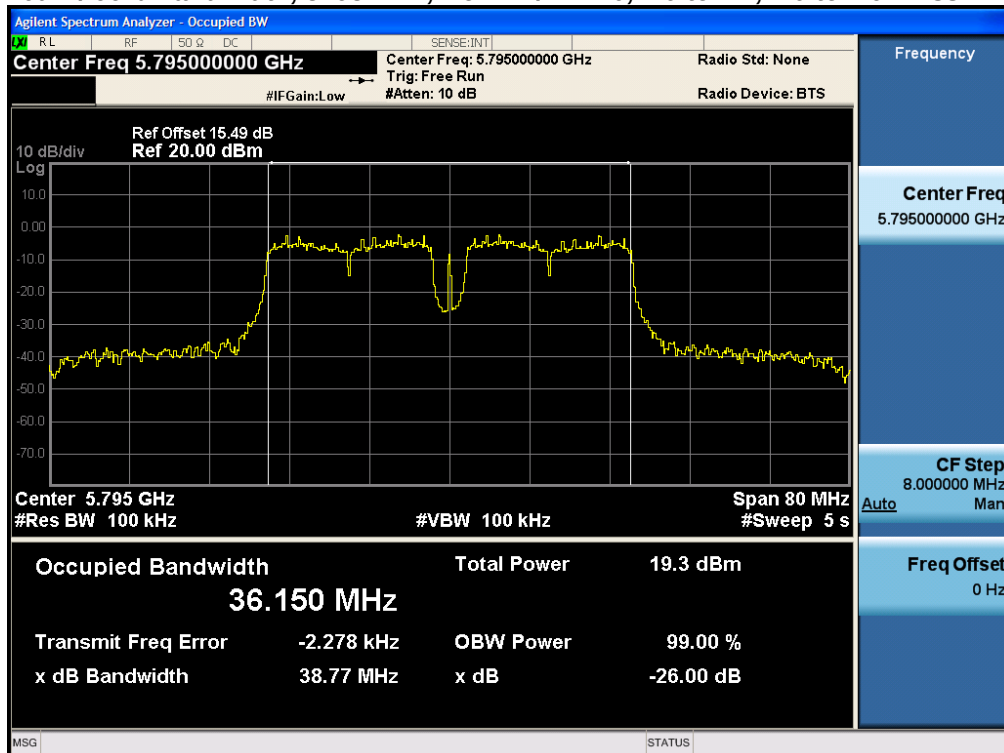
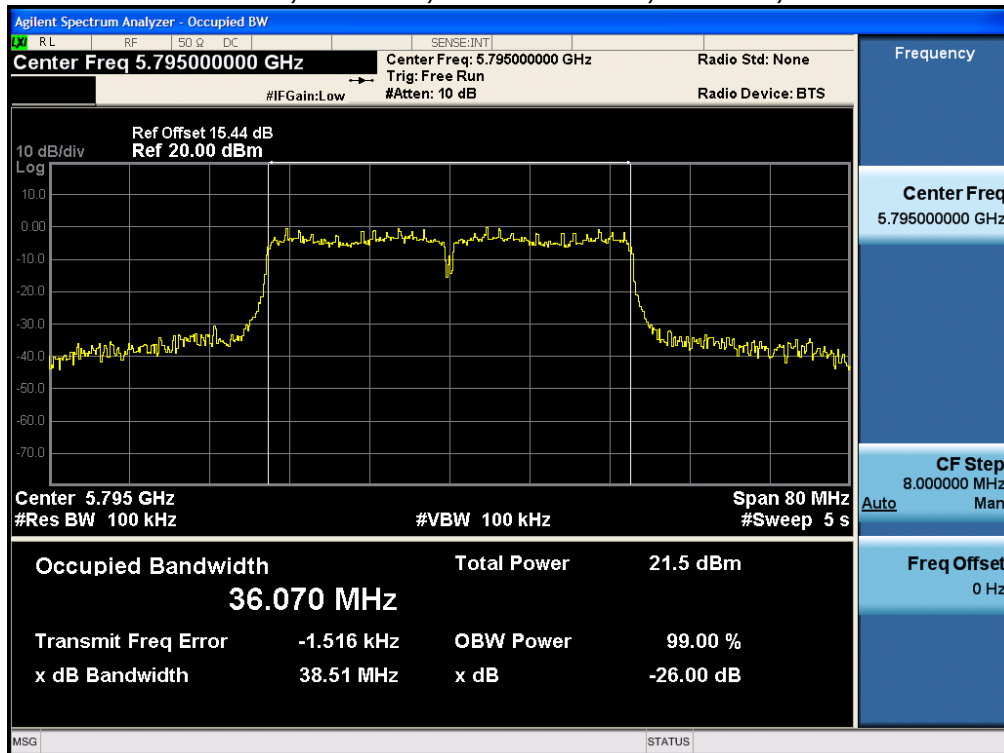
| Frequency (MHz) | Mode                                    | Data Rate (Mbps) | 26dB BW (MHz) | 99% BW (MHz) |
|-----------------|-----------------------------------------|------------------|---------------|--------------|
| 5745            | Non HT/VHT20, M0 to M7, M0 to M9 1-1ss  | 6                | 18.7          | 16.5         |
|                 | HT/VHT20 STBC, M0 to M7, M0 to M9 1-1ss | m0               | 19.4          | 17.6         |
| 5755            | Non HT/VHT40, M0 to M7, M0 to M9 1-1ss  | 6                | 38.8          | 36.1         |
|                 | HT/VHT40 STBC, M0 to M7, M0 to M9 1-1ss | m0               | 38.5          | 36.1         |
| 5775            | Non HT/VHT80, M0 to M7, M0 to M9 1-1ss  | 6                | 79.1          | 76           |
|                 | HT/VHT80 STBC, M0 to M7, M0 to M9 1-1ss | m0x1             | 80.4          | 76           |
| 5785            | Non HT/VHT20, M0 to M7, M0 to M9 1-1ss  | 6                | 18.8          | 16.5         |
|                 | HT/VHT20 STBC, M0 to M7, M0 to M9 1-1ss | m0               | 19.5          | 17.6         |
| 5795            | Non HT/VHT40, M0 to M7, M0 to M9 1-1ss  | 6                | 38.8          | 36.2         |
|                 | HT/VHT40 STBC, M0 to M7, M0 to M9 1-1ss | m0               | 38.5          | 36.1         |
| 5825            | Non HT/VHT20, M0 to M7, M0 to M9 1-1ss  | 6                | 18.7          | 16.5         |
|                 | HT/VHT20 STBC, M0 to M7, M0 to M9 1-1ss | m0               | 19.4          | 17.6         |

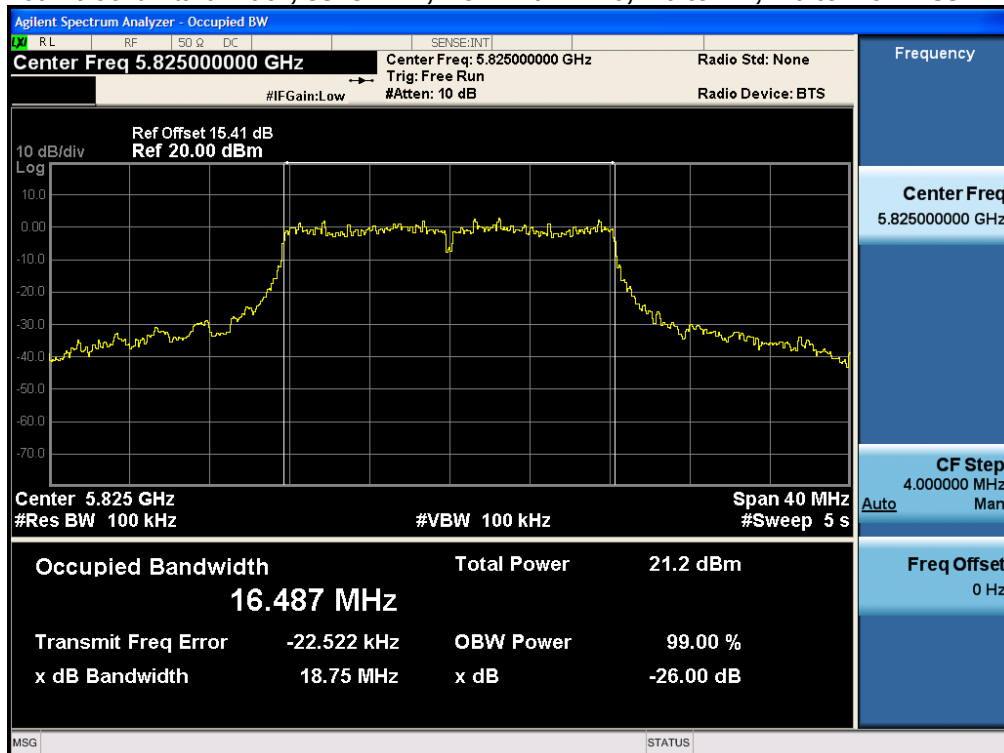
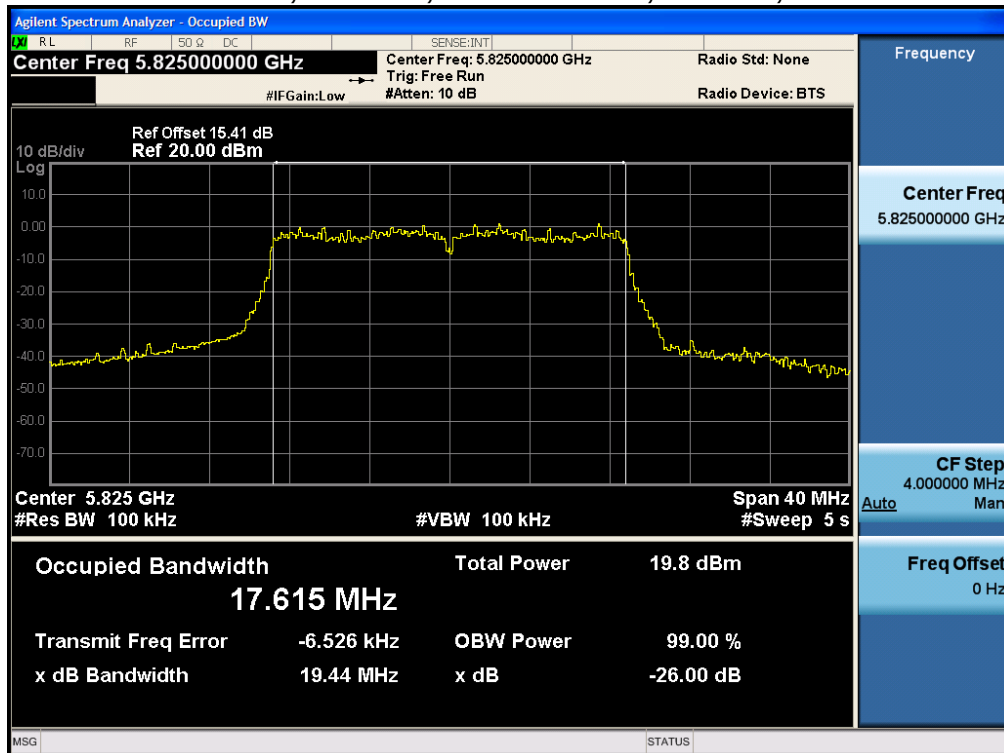
**26dB / 99% Bandwidth, 5745 MHz, Non HT/VHT20, M0 to M7, M0 to M9 1-1ss****26dB / 99% Bandwidth, 5745 MHz, HT/VHT20 STBC, M0 to M7, M0 to M9 1-1ss**

**26dB / 99% Bandwidth, 5755 MHz, Non HT/VHT40, M0 to M7, M0 to M9 1-1ss****26dB / 99% Bandwidth, 5755 MHz, HT/VHT40 STBC, M0 to M7, M0 to M9 1-1ss**

**26dB / 99% Bandwidth, 5775 MHz, Non HT/VHT80, M0 to M7, M0 to M9 1-1ss****26dB / 99% Bandwidth, 5775 MHz, HT/VHT80 STBC, M0 to M7, M0 to M9 1-1ss**

**26dB / 99% Bandwidth, 5785 MHz, Non HT/VHT20, M0 to M7, M0 to M9 1-1ss****26dB / 99% Bandwidth, 5785 MHz, HT/VHT20 STBC, M0 to M7, M0 to M9 1-1ss**

**26dB / 99% Bandwidth, 5795 MHz, Non HT/VHT40, M0 to M7, M0 to M9 1-1ss****26dB / 99% Bandwidth, 5795 MHz, HT/VHT40 STBC, M0 to M7, M0 to M9 1-1ss**

**26dB / 99% Bandwidth, 5825 MHz, Non HT/VHT20, M0 to M7, M0 to M9 1-1ss****26dB / 99% Bandwidth, 5825 MHz, HT/VHT20 STBC, M0 to M7, M0 to M9 1-1ss**

## A.2 Maximum Conducted Output Power/Power Spectral Density

**15.407** (i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 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. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 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.

### Test Procedure

**Ref.** KDB 789033 D02 General UNII Test Procedures New Rules v01  
ANSI C63.10: 2013

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Output Power</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Test Procedure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <ol style="list-style-type: none"> <li>1. Set the radio in the continuous transmitting mode at full power</li> <li>2. Compute power by integrating the spectrum across the EBW (or alternatively entire 99% OBW) of the signal using the instrument's band power measurement function. The integration shall be performed using the spectrum analyzer band-power measurement function with band limits set equal to the EBW or the OBW band edges.</li> <li>3. Capture graphs and record pertinent measurement data.</li> </ol> |

**Ref.** KDB 789033 D02 General UNII Test Procedures New Rules v01  
ANSI C63.10: 2013 section 12.3.2.2 Method SA-1

|                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------|
| <b>Output Power</b>                                                                                                               |
| Test parameters                                                                                                                   |
| Span = >1.5 times the OBW<br>RBW = 1MHz<br>VBW ≥ 3 x RBW<br>Sweep = Auto couple<br>Detector = sample<br>Trace = Trace Average 100 |

The "measure-and-sum technique" is used for measuring in-band transmit power of a device. In the measure-and-sum approach, the conducted emission level is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically to determine the total emission level from the device. Summing is performed in linear power units. (See ANSI C63.10 section 14.3.2.2)

| System Number | Description | Samples | System under test                   | Support equipment                   |
|---------------|-------------|---------|-------------------------------------|-------------------------------------|
| 1             | EUT         | S01     | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
|               | Support     | S02     | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |



|                                   |                                                   |
|-----------------------------------|---------------------------------------------------|
| <b>Tested By :</b><br>John Liscio | <b>Date of testing:</b><br>February-15 - March-15 |
| <b>Test Result : PASS</b>         |                                                   |

See Appendix C for list of test equipment



| Frequency (MHz) | Mode                                  | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 Max Power (dBm) | Tx 2 Max Power (dBm) | Tx 3 Max Power (dBm) | Tx 4 Max Power (dBm) | Total Tx Channel Power (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|---------------------------------------|----------|-------------------------------|----------------------|----------------------|----------------------|----------------------|------------------------------|-------------|-------------|
| 5745            | Non HT/VHT20, 6 to 54 Mbps            | 1        | 4                             | 14.4                 |                      |                      |                      | 14.4                         | 30.0        | 15.6        |
|                 | Non HT/VHT20, 6 to 54 Mbps            | 2        | 4                             | 12.6                 | 12.4                 |                      |                      | 15.5                         | 30.0        | 14.5        |
|                 | Non HT/VHT20, 6 to 54 Mbps            | 3        | 4                             | 12.6                 | 12.4                 | 12.0                 |                      | 17.1                         | 30.0        | 12.9        |
|                 | Non HT/VHT20, 6 to 54 Mbps            | 4        | 4                             | 11.1                 | 11.5                 | 11.1                 | 11.1                 | 17.2                         | 30.0        | 12.8        |
|                 | HT/VHT20, M0 to M7, M0 to M9 1ss      | 1        | 4                             | 13.7                 |                      |                      |                      | 13.7                         | 30.0        | 16.3        |
|                 | HT/VHT20, M0 to M7, M0 to M9 1ss      | 2        | 4                             | 12.7                 | 12.6                 |                      |                      | 15.7                         | 30.0        | 14.3        |
|                 | HT/VHT20, M0 to M7, M0 to M9 1ss      | 3        | 4                             | 12.7                 | 12.6                 | 12.2                 |                      | 17.3                         | 30.0        | 12.7        |
|                 | HT/VHT20, M0 to M7, M0 to M9 1ss      | 4        | 4                             | 12.7                 | 12.6                 | 12.2                 | 12.3                 | 18.5                         | 30.0        | 11.5        |
|                 | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 2        | 4                             | 12.7                 | 12.6                 |                      |                      | 15.7                         | 30.0        | 14.3        |
|                 | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 3        | 4                             | 12.7                 | 12.6                 | 12.2                 |                      | 17.3                         | 30.0        | 12.7        |
|                 | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 4        | 4                             | 12.7                 | 12.6                 | 12.2                 | 12.3                 | 18.5                         | 30.0        | 11.5        |
| 5755            | Non HT/VHT40, 6 to 54 Mbps            | 1        | 4                             | 10.2                 |                      |                      |                      | 10.2                         | 30.0        | 19.8        |
|                 | Non HT/VHT40, 6 to 54 Mbps            | 2        | 4                             | 8.4                  | 8.0                  |                      |                      | 11.2                         | 30.0        | 18.8        |
|                 | Non HT/VHT40, 6 to 54 Mbps            | 3        | 4                             | 8.4                  | 8.0                  | 9.3                  |                      | 13.4                         | 30.0        | 16.6        |
|                 | Non HT/VHT40, 6 to 54 Mbps            | 4        | 4                             | 6.0                  | 5.5                  | 7.4                  | 6.5                  | 12.4                         | 30.0        | 17.6        |
|                 | HT/VHT40, M0 to M7, M0 to M9 1ss      | 1        | 4                             | 11.3                 |                      |                      |                      | 11.3                         | 30.0        | 18.7        |
|                 | HT/VHT40, M0 to M7, M0 to M9 1ss      | 2        | 4                             | 10.3                 | 10.4                 |                      |                      | 13.4                         | 30.0        | 16.6        |
|                 | HT/VHT40, M0 to M7, M0 to M9 1ss      | 3        | 4                             | 10.3                 | 10.4                 | 10.3                 |                      | 15.1                         | 30.0        | 14.9        |
|                 | HT/VHT40, M0 to M7, M0 to M9 1ss      | 4        | 4                             | 9.3                  | 9.4                  | 8.8                  | 8.9                  | 15.1                         | 30.0        | 14.9        |
|                 | HT/VHT40 STBC, M0 to M7, M0 to M9 1ss | 2        | 4                             | 10.3                 | 10.4                 |                      |                      | 13.4                         | 30.0        | 16.6        |
|                 | HT/VHT40 STBC, M0 to M7, M0 to M9 1ss | 3        | 4                             | 10.3                 | 10.4                 | 10.3                 |                      | 15.1                         | 30.0        | 14.9        |
|                 | HT/VHT40 STBC, M0 to M7, M0 to M9 1ss | 4        | 4                             | 9.3                  | 9.4                  | 8.8                  | 8.9                  | 15.1                         | 30.0        | 14.9        |
| 5775            | Non HT/VHT80, 6 to 54 Mbps            | 1        | 4                             | 10.7                 |                      |                      |                      | 10.7                         | 30.0        | 19.3        |
|                 | Non HT/VHT80, 6 to 54 Mbps            | 2        | 4                             | 8.4                  | 7.8                  |                      |                      | 11.1                         | 30.0        | 18.9        |
|                 | Non HT/VHT80, 6 to 54 Mbps            | 3        | 4                             | 8.4                  | 7.8                  | 9.3                  |                      | 13.3                         | 30.0        | 16.7        |
|                 | Non HT/VHT80, 6 to 54 Mbps            | 4        | 4                             | 8.4                  | 7.8                  | 9.3                  | 8.9                  | 14.7                         | 30.0        | 15.3        |
|                 | HT/VHT80, M0 to M7, M0 to M9 1ss      | 1        | 4                             | 12.4                 |                      |                      |                      | 12.4                         | 30.0        | 17.6        |
|                 | HT/VHT80, M0 to M7, M0 to M9 1ss      | 2        | 4                             | 11.4                 | 11.1                 |                      |                      | 14.3                         | 30.0        | 15.7        |
|                 | HT/VHT80, M0 to M7, M0 to M9 1ss      | 3        | 4                             | 11.4                 | 11.1                 | 10.8                 |                      | 15.9                         | 30.0        | 14.1        |
|                 | HT/VHT80, M0 to M7, M0 to M9 1ss      | 4        | 4                             | 11.4                 | 11.1                 | 10.8                 | 10.9                 | 17.1                         | 30.0        | 12.9        |
|                 | HT/VHT80 STBC, M0 to M7, M0 to M9 1ss | 2        | 4                             | 11.4                 | 11.1                 |                      |                      | 14.3                         | 30.0        | 15.7        |
|                 | HT/VHT80 STBC, M0 to M7, M0 to M9 1ss | 3        | 4                             | 11.4                 | 11.1                 | 10.8                 |                      | 15.9                         | 30.0        | 14.1        |



|      |                                       |   |   |      |      |      |      |      |      |      |
|------|---------------------------------------|---|---|------|------|------|------|------|------|------|
|      | HT/VHT80 STBC, M0 to M7, M0 to M9 1ss | 4 | 4 | 11.4 | 11.1 | 10.8 | 10.9 | 17.1 | 30.0 | 12.9 |
| 5785 | Non HT/VHT20, 6 to 54 Mbps            | 1 | 4 | 16.0 |      |      |      | 16.0 | 30.0 | 14.0 |
|      | Non HT/VHT20, 6 to 54 Mbps            | 2 | 4 | 16.0 | 16.4 |      |      | 19.2 | 30.0 | 10.8 |
|      | Non HT/VHT20, 6 to 54 Mbps            | 3 | 4 | 16.0 | 16.4 | 16.0 |      | 20.9 | 30.0 | 9.1  |
|      | Non HT/VHT20, 6 to 54 Mbps            | 4 | 4 | 16.0 | 16.4 | 16.0 | 15.8 | 22.1 | 30.0 | 7.9  |
|      | HT/VHT20, M0 to M7, M0 to M9 1ss      | 1 | 4 | 16.5 |      |      |      | 16.5 | 30.0 | 13.5 |
|      | HT/VHT20, M0 to M7, M0 to M9 1ss      | 2 | 4 | 16.5 | 16.8 |      |      | 19.7 | 30.0 | 10.3 |
|      | HT/VHT20, M0 to M7, M0 to M9 1ss      | 3 | 4 | 16.5 | 16.8 | 16.4 |      | 21.3 | 30.0 | 8.7  |
|      | HT/VHT20, M0 to M7, M0 to M9 1ss      | 4 | 4 | 16.5 | 16.8 | 16.4 | 16.3 | 22.5 | 30.0 | 7.5  |
|      | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 2 | 4 | 16.5 | 16.8 |      |      | 19.7 | 30.0 | 10.3 |
|      | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 3 | 4 | 16.5 | 16.8 | 16.4 |      | 21.3 | 30.0 | 8.7  |
|      | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 4 | 4 | 16.5 | 16.8 | 16.4 | 16.3 | 22.5 | 30.0 | 7.5  |
| 5795 | Non HT/VHT40, 6 to 54 Mbps            | 1 | 4 | 15.4 |      |      |      | 15.4 | 30.0 | 14.6 |
|      | Non HT/VHT40, 6 to 54 Mbps            | 2 | 4 | 12.9 | 12.9 |      |      | 15.9 | 30.0 | 14.1 |
|      | Non HT/VHT40, 6 to 54 Mbps            | 3 | 4 | 12.9 | 12.9 | 12.7 |      | 17.6 | 30.0 | 12.4 |
|      | Non HT/VHT40, 6 to 54 Mbps            | 4 | 4 | 12.9 | 12.9 | 12.7 | 12.7 | 18.8 | 30.0 | 11.2 |
|      | HT/VHT40, M0 to M7, M0 to M9 1ss      | 1 | 4 | 16.8 |      |      |      | 16.8 | 30.0 | 13.2 |
|      | HT/VHT40, M0 to M7, M0 to M9 1ss      | 2 | 4 | 14.6 | 15.1 |      |      | 17.9 | 30.0 | 12.1 |
|      | HT/VHT40, M0 to M7, M0 to M9 1ss      | 3 | 4 | 14.6 | 15.1 | 14.8 |      | 19.6 | 30.0 | 10.4 |
|      | HT/VHT40, M0 to M7, M0 to M9 1ss      | 4 | 4 | 14.6 | 15.1 | 14.8 | 14.8 | 20.8 | 30.0 | 9.2  |
|      | HT/VHT40 STBC, M0 to M7, M0 to M9 1ss | 2 | 4 | 14.6 | 15.1 |      |      | 17.9 | 30.0 | 12.1 |
|      | HT/VHT40 STBC, M0 to M7, M0 to M9 1ss | 3 | 4 | 14.6 | 15.1 | 14.8 |      | 19.6 | 30.0 | 10.4 |
|      | HT/VHT40 STBC, M0 to M7, M0 to M9 1ss | 4 | 4 | 14.6 | 15.1 | 14.8 | 14.8 | 20.8 | 30.0 | 9.2  |
| 5825 | Non HT/VHT20, 6 to 54 Mbps            | 1 | 4 | 14.8 |      |      |      | 14.8 | 30.0 | 15.2 |
|      | Non HT/VHT20, 6 to 54 Mbps            | 2 | 4 | 13.5 | 13.9 |      |      | 16.7 | 30.0 | 13.3 |
|      | Non HT/VHT20, 6 to 54 Mbps            | 3 | 4 | 13.5 | 13.9 | 13.6 |      | 18.4 | 30.0 | 11.6 |
|      | Non HT/VHT20, 6 to 54 Mbps            | 4 | 4 | 13.5 | 13.9 | 13.6 | 13.3 | 19.6 | 30.0 | 10.4 |
|      | HT/VHT20, M0 to M7, M0 to M9 1ss      | 1 | 4 | 14.0 |      |      |      | 14.0 | 30.0 | 16.0 |
|      | HT/VHT20, M0 to M7, M0 to M9 1ss      | 2 | 4 | 13.2 | 13.7 |      |      | 16.5 | 30.0 | 13.5 |
|      | HT/VHT20, M0 to M7, M0 to M9 1ss      | 3 | 4 | 12.2 | 12.3 | 12.1 |      | 17.0 | 30.0 | 13.0 |
|      | HT/VHT20, M0 to M7, M0 to M9 1ss      | 4 | 4 | 12.2 | 12.3 | 12.1 | 11.6 | 18.1 | 30.0 | 11.9 |
|      | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 2 | 4 | 13.2 | 13.7 |      |      | 16.5 | 30.0 | 13.5 |
|      | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 3 | 4 | 12.2 | 12.3 | 12.1 |      | 17.0 | 30.0 | 13.0 |
|      | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 4 | 4 | 12.2 | 12.3 | 12.1 | 11.6 | 18.1 | 30.0 | 11.9 |



| Frequency (MHz) | Mode                                  | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 PSD (dBm/MHz) | Tx 2 PSD (dBm/MHz) | Tx 3 PSD (dBm/MHz) | Tx 4 PSD (dBm/MHz) | Total PSD (dBm/MHz) | Limit (dBm/MHz) | Margin (dB) |
|-----------------|---------------------------------------|----------|-------------------------------|--------------------|--------------------|--------------------|--------------------|---------------------|-----------------|-------------|
| 5745            | Non HT/VHT20, 6 to 54 Mbps            | 1        | 4                             | 1.2                |                    |                    |                    | 1.2                 | 30.0            | 28.8        |
|                 | Non HT/VHT20, 6 to 54 Mbps            | 2        | 7                             | -0.5               | -0.8               |                    |                    | 2.4                 | 29.0            | 26.6        |
|                 | Non HT/VHT20, 6 to 54 Mbps            | 3        | 9                             | -0.5               | -0.8               | -1.0               |                    | 4.0                 | 27.2            | 23.2        |
|                 | Non HT/VHT20, 6 to 54 Mbps            | 4        | 10                            | -2.2               | -1.5               | -2.0               | -1.8               | 4.2                 | 26.0            | 21.8        |
|                 | HT/VHT20, M0 to M7, M0 to M9 1ss      | 1        | 4                             | 0.3                |                    |                    |                    | 0.3                 | 30.0            | 29.7        |
|                 | HT/VHT20, M0 to M7, M0 to M9 1ss      | 2        | 7                             | -0.9               | -1.0               |                    |                    | 2.1                 | 29.0            | 26.9        |
|                 | HT/VHT20, M0 to M7, M0 to M9 1ss      | 3        | 9                             | -0.9               | -1.0               | -1.3               |                    | 3.7                 | 27.2            | 23.5        |
|                 | HT/VHT20, M0 to M7, M0 to M9 1ss      | 4        | 10                            | -0.9               | -1.0               | -1.3               | -1.1               | 4.9                 | 26.0            | 21.0        |
|                 | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 2        | 4                             | -0.9               | -1.0               |                    |                    | 2.1                 | 30.0            | 27.9        |
|                 | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 3        | 6                             | -0.9               | -1.0               | -1.3               |                    | 3.7                 | 30.0            | 26.3        |
|                 | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 4        | 7                             | -0.9               | -1.0               | -1.3               | -1.1               | 4.9                 | 29.0            | 24.0        |
| 5755            | Non HT/VHT40, 6 to 54 Mbps            | 1        | 4                             | -6.0               |                    |                    |                    | -6.0                | 30.0            | 36.0        |
|                 | Non HT/VHT40, 6 to 54 Mbps            | 2        | 7                             | -7.9               | -8.3               |                    |                    | -5.1                | 29.0            | 34.1        |
|                 | Non HT/VHT40, 6 to 54 Mbps            | 3        | 9                             | -7.9               | -8.3               | -6.6               |                    | -2.8                | 27.2            | 30.0        |
|                 | Non HT/VHT40, 6 to 54 Mbps            | 4        | 10                            | -10.0              | -10.4              | -8.6               | -9.5               | -3.6                | 26.0            | 29.5        |
|                 | HT/VHT40, M0 to M7, M0 to M9 1ss      | 1        | 4                             | -5.4               |                    |                    |                    | -5.4                | 30.0            | 35.4        |
|                 | HT/VHT40, M0 to M7, M0 to M9 1ss      | 2        | 7                             | -6.0               | -6.2               |                    |                    | -3.1                | 29.0            | 32.1        |
|                 | HT/VHT40, M0 to M7, M0 to M9 1ss      | 3        | 9                             | -6.0               | -6.2               | -6.2               |                    | -1.4                | 27.2            | 28.6        |
|                 | HT/VHT40, M0 to M7, M0 to M9 1ss      | 4        | 10                            | -6.9               | -7.2               | -7.6               | -7.0               | -1.1                | 26.0            | 27.1        |
|                 | HT/VHT40 STBC, M0 to M7, M0 to M9 1ss | 2        | 4                             | -6.0               | -6.2               |                    |                    | -3.1                | 30.0            | 33.1        |
|                 | HT/VHT40 STBC, M0 to M7, M0 to M9 1ss | 3        | 6                             | -6.0               | -6.2               | -6.2               |                    | -1.4                | 30.0            | 31.4        |
|                 | HT/VHT40 STBC, M0 to M7, M0 to M9 1ss | 4        | 7                             | -6.9               | -7.2               | -7.6               | -7.0               | -1.1                | 29.0            | 30.1        |
| 5775            | Non HT/VHT80, 6 to 54 Mbps            | 1        | 4                             | -8.3               |                    |                    |                    | -8.3                | 30.0            | 38.3        |
|                 | Non HT/VHT80, 6 to 54 Mbps            | 2        | 7                             | -11.1              | -9.2               |                    |                    | -7.0                | 29.0            | 36.0        |
|                 | Non HT/VHT80, 6 to 54 Mbps            | 3        | 9                             | -11.1              | -9.2               | -10.5              |                    | -5.4                | 27.2            | 32.7        |
|                 | Non HT/VHT80, 6 to 54 Mbps            | 4        | 10                            | -11.1              | -9.2               | -10.5              | -10.9              | -4.3                | 26.0            | 30.3        |
|                 | HT/VHT80, M0 to M7, M0 to M9 1ss      | 1        | 4                             | -7.9               |                    |                    |                    | -7.9                | 30.0            | 37.9        |
|                 | HT/VHT80, M0 to M7, M0 to M9 1ss      | 2        | 7                             | -9.0               | -8.7               |                    |                    | -5.8                | 29.0            | 34.8        |
|                 | HT/VHT80, M0 to M7, M0 to M9 1ss      | 3        | 9                             | -9.0               | -8.7               | -9.3               |                    | -4.2                | 27.2            | 31.5        |
|                 | HT/VHT80, M0 to M7, M0 to M9 1ss      | 4        | 10                            | -9.0               | -8.7               | -9.3               | -8.8               | -2.9                | 26.0            | 28.9        |
|                 | HT/VHT80 STBC, M0 to M7, M0 to M9 1ss | 2        | 4                             | -9.0               | -8.7               |                    |                    | -5.8                | 30.0            | 35.8        |
|                 | HT/VHT80 STBC, M0 to M7, M0 to M9 1ss | 3        | 4                             | -9.0               | -8.7               | -9.3               |                    | -4.2                | 30.0            | 34.2        |



|      |                                       |   |    |      |      |      |      |      |      |      |
|------|---------------------------------------|---|----|------|------|------|------|------|------|------|
|      | HT/VHT80 STBC, M0 to M7, M0 to M9 1ss | 4 | 4  | -9.0 | -8.7 | -9.3 | -8.8 | -2.9 | 30.0 | 32.9 |
| 5785 | Non HT/VHT20, 6 to 54 Mbps            | 1 | 4  | 2.8  |      |      |      | 2.8  | 30.0 | 27.2 |
|      | Non HT/VHT20, 6 to 54 Mbps            | 2 | 7  | 2.8  | 3.1  |      |      | 6.0  | 29.0 | 23.0 |
|      | Non HT/VHT20, 6 to 54 Mbps            | 3 | 9  | 2.8  | 3.1  | 2.9  |      | 7.7  | 27.2 | 19.5 |
|      | Non HT/VHT20, 6 to 54 Mbps            | 4 | 10 | 2.8  | 3.1  | 2.9  | 2.5  | 8.9  | 26.0 | 17.1 |
|      | HT/VHT20, M0 to M7, M0 to M9 1ss      | 1 | 4  | 2.9  |      |      |      | 2.9  | 30.0 | 27.1 |
|      | HT/VHT20, M0 to M7, M0 to M9 1ss      | 2 | 7  | 2.9  | 2.9  |      |      | 5.9  | 29.0 | 23.1 |
|      | HT/VHT20, M0 to M7, M0 to M9 1ss      | 3 | 9  | 2.9  | 2.9  | 2.5  |      | 7.5  | 27.2 | 19.7 |
|      | HT/VHT20, M0 to M7, M0 to M9 1ss      | 4 | 10 | 2.9  | 2.9  | 2.5  | 2.9  | 8.8  | 26.0 | 17.2 |
|      | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 2 | 4  | 2.9  | 2.9  |      |      | 5.9  | 30.0 | 24.1 |
|      | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 3 | 6  | 2.9  | 2.9  | 2.5  |      | 7.5  | 30.0 | 22.5 |
|      | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 4 | 7  | 2.9  | 2.9  | 2.5  | 2.9  | 8.8  | 29.0 | 20.2 |
| 5795 | Non HT/VHT40, 6 to 54 Mbps            | 1 | 4  | -0.4 |      |      |      | -0.4 | 30.0 | 30.4 |
|      | Non HT/VHT40, 6 to 54 Mbps            | 2 | 7  | -3.5 | -3.6 |      |      | -0.5 | 29.0 | 29.5 |
|      | Non HT/VHT40, 6 to 54 Mbps            | 3 | 9  | -3.5 | -3.6 | -3.7 |      | 1.2  | 27.2 | 26.1 |
|      | Non HT/VHT40, 6 to 54 Mbps            | 4 | 10 | -3.5 | -3.6 | -3.7 | -3.4 | 2.5  | 26.0 | 23.5 |
|      | HT/VHT40, M0 to M7, M0 to M9 1ss      | 1 | 4  | 0.0  |      |      |      | 0.0  | 30.0 | 30.0 |
|      | HT/VHT40, M0 to M7, M0 to M9 1ss      | 2 | 7  | -1.5 | -1.6 |      |      | 1.5  | 29.0 | 27.5 |
|      | HT/VHT40, M0 to M7, M0 to M9 1ss      | 3 | 9  | -1.5 | -1.6 | -1.7 |      | 3.2  | 27.2 | 24.1 |
|      | HT/VHT40, M0 to M7, M0 to M9 1ss      | 4 | 10 | -1.5 | -1.6 | -1.7 | -1.7 | 4.4  | 26.0 | 21.6 |
|      | HT/VHT40 STBC, M0 to M7, M0 to M9 1ss | 2 | 4  | -1.5 | -1.6 |      |      | 1.5  | 30.0 | 28.5 |
|      | HT/VHT40 STBC, M0 to M7, M0 to M9 1ss | 3 | 6  | -1.5 | -1.6 | -1.7 |      | 3.2  | 30.0 | 26.8 |
|      | HT/VHT40 STBC, M0 to M7, M0 to M9 1ss | 4 | 7  | -1.5 | -1.6 | -1.7 | -1.7 | 4.4  | 29.0 | 24.6 |
| 5825 | Non HT/VHT20, 6 to 54 Mbps            | 1 | 4  | 3.0  |      |      |      | 3.0  | 30.0 | 27.0 |
|      | Non HT/VHT20, 6 to 54 Mbps            | 2 | 7  | 0.5  | 0.5  |      |      | 3.5  | 29.0 | 25.5 |
|      | Non HT/VHT20, 6 to 54 Mbps            | 3 | 9  | 0.5  | 0.5  | 0.2  |      | 5.2  | 27.2 | 22.1 |
|      | Non HT/VHT20, 6 to 54 Mbps            | 4 | 10 | 0.5  | 0.5  | 0.2  | 0.4  | 6.4  | 26.0 | 19.6 |
|      | HT/VHT20, M0 to M7, M0 to M9 1ss      | 1 | 4  | 0.3  |      |      |      | 0.3  | 30.0 | 29.7 |
|      | HT/VHT20, M0 to M7, M0 to M9 1ss      | 2 | 7  | -0.5 | -0.1 |      |      | 2.7  | 29.0 | 26.3 |
|      | HT/VHT20, M0 to M7, M0 to M9 1ss      | 3 | 9  | -1.7 | -1.2 | -1.7 |      | 3.2  | 27.2 | 24.0 |
|      | HT/VHT20, M0 to M7, M0 to M9 1ss      | 4 | 10 | -1.7 | -1.2 | -1.7 | -2.0 | 4.4  | 26.0 | 21.6 |
|      | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 2 | 4  | -0.5 | -0.1 |      |      | 2.7  | 30.0 | 27.3 |
|      | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 3 | 6  | -1.7 | -1.2 | -1.7 |      | 3.2  | 30.0 | 26.8 |
|      | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 4 | 7  | -1.7 | -1.2 | -1.7 | -2.0 | 4.4  | 29.0 | 24.6 |

**Peak Output Power, 5785 MHz, HT/VHT20, M0 to M7, M0 to M9 1ss****Antenna A****Antenna B****Antenna C****Antenna D**

**Power Spectral Density, 5785 MHz, Non HT/VHT20, 6 to 54 Mbps****Antenna A****Antenna B****Antenna C****Antenna D**



## A.4 Conducted Spurious Emissions

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

(4) 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.

(6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.

(7) The provisions of §15.205 apply to intentional radiators operating under this section.

### Test Procedure

Ref. KDB 789033 D02 General UNII Test Procedures New Rules v01  
ANSI C63.10: 2013

| Conducted Spurious Emissions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Procedure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <ol style="list-style-type: none"> <li>1. Connect the antenna port(s) to the spectrum analyzer input.</li> <li>2. Place the radio in continuous transmit mode. Use the procedures in KDB 789033 D02 General UNII Test Procedures New Rules v01 to substitute conducted measurements in place of radiated measurements.</li> <li>3. Configure Spectrum analyzer as per test parameters below (be sure to enter all losses between the transmitter output and the spectrum analyzer).</li> <li>4. Record the marker waveform peak to spur difference. Also measure any emissions in the restricted bands.</li> <li>5. The "measure-and-sum technique" is used for measuring in-band transmit power of a device. In the measure-and-sum approach, the conducted emission level is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically to determine the total emission level from the device. Summing is performed in linear power units. The worst case output is recorded.</li> <li>6. Capture graphs and record pertinent measurement data.</li> </ol> |

Ref. KDB 789033 D02 General UNII Test Procedures New Rules v01  
ANSI C63.10: 2013 section 12.7.7.3 (average) & 12.7.6 (peak)

| Conducted Spurious Emissions                                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test parameters                                                                                                                                                  |
| Span = 30MHz to 18GHz / 18GHz to 40GHz<br>RBW = 1 MHz<br>VBW ≥ 3 x RBW for Peak, 1kHz for Average<br>Sweep = Auto couple<br>Detector = Peak<br>Trace = Max Hold. |



| System Number | Description | Samples | System under test                   | Support equipment                   |
|---------------|-------------|---------|-------------------------------------|-------------------------------------|
| 1             | EUT         | S01     | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
|               | Support     | S02     | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

|                                   |                                                   |
|-----------------------------------|---------------------------------------------------|
| <b>Tested By :</b><br>John Liscio | <b>Date of testing:</b><br>February-15 - March-15 |
| <b>Test Result : PASS</b>         |                                                   |

See Appendix C for list of test equipment



| Frequency (MHz) | Mode                                  | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 Spur Power (dBm) | Tx 2 Spur Power (dBm) | Tx 3 Spur Power (dBm) | Tx 4 Spur Power (dBm) | Total Conducted Spur (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|---------------------------------------|----------|-------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------------|-------------|-------------|
| 5745            | Non HT/VHT20, 6 to 54 Mbps            | 1        | 4                             | -69.9                 |                       |                       |                       | -65.9                      | -41.25      | 24.7        |
|                 | Non HT/VHT20, 6 to 54 Mbps            | 2        | 4                             | -69.9                 | -70.2                 |                       |                       | -63.0                      | -41.25      | 21.8        |
|                 | Non HT/VHT20, 6 to 54 Mbps            | 3        | 4                             | -69.9                 | -70.2                 | -69.9                 |                       | -61.2                      | -41.25      | 20.0        |
|                 | Non HT/VHT20, 6 to 54 Mbps            | 4        | 4                             | -65.2                 | -70.2                 | -70.0                 | -69.7                 | -58.2                      | -41.25      | 16.9        |
|                 | HT/VHT20, M0 to M7, M0 to M9 1ss      | 1        | 4                             | -70.0                 |                       |                       |                       | -66.0                      | -41.25      | 24.8        |
|                 | HT/VHT20, M0 to M7, M0 to M9 1ss      | 2        | 4                             | -70.0                 | -70.4                 |                       |                       | -63.2                      | -41.25      | 21.9        |
|                 | HT/VHT20, M0 to M7, M0 to M9 1ss      | 3        | 4                             | -70.0                 | -70.4                 | -70.0                 |                       | -61.4                      | -41.25      | 20.1        |
|                 | HT/VHT20, M0 to M7, M0 to M9 1ss      | 4        | 4                             | -70.0                 | -70.4                 | -70.0                 | -70.0                 | -60.1                      | -41.25      | 18.8        |
|                 | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 2        | 4                             | -70.0                 | -70.4                 |                       |                       | -63.2                      | -41.25      | 21.9        |
|                 | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 3        | 4                             | -70.0                 | -70.4                 | -70.0                 |                       | -61.4                      | -41.25      | 20.1        |
|                 | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 4        | 4                             | -70.0                 | -70.4                 | -70.0                 | -70.0                 | -60.1                      | -41.25      | 18.8        |
| 5755            | Non HT/VHT40, 6 to 54 Mbps            | 1        | 4                             | -64.4                 |                       |                       |                       | -60.4                      | -41.25      | 19.2        |
|                 | Non HT/VHT40, 6 to 54 Mbps            | 2        | 4                             | -69.8                 | -70.4                 |                       |                       | -63.1                      | -41.25      | 21.8        |
|                 | Non HT/VHT40, 6 to 54 Mbps            | 3        | 4                             | -69.8                 | -70.4                 | -70.0                 |                       | -61.3                      | -41.25      | 20.0        |
|                 | Non HT/VHT40, 6 to 54 Mbps            | 4        | 4                             | -69.9                 | -70.3                 | -69.9                 | -69.7                 | -59.9                      | -41.25      | 18.7        |
|                 | HT/VHT40, M0 to M7, M0 to M9 1ss      | 1        | 4                             | -64.2                 |                       |                       |                       | -60.2                      | -41.25      | 19.0        |
|                 | HT/VHT40, M0 to M7, M0 to M9 1ss      | 2        | 4                             | -64.3                 | -70.3                 |                       |                       | -59.3                      | -41.25      | 18.1        |
|                 | HT/VHT40, M0 to M7, M0 to M9 1ss      | 3        | 4                             | -64.3                 | -70.3                 | -69.8                 |                       | -58.4                      | -41.25      | 17.2        |
|                 | HT/VHT40, M0 to M7, M0 to M9 1ss      | 4        | 4                             | -64.0                 | -70.4                 | -69.8                 | -69.9                 | -57.6                      | -41.25      | 16.3        |
|                 | HT/VHT40 STBC, M0 to M7, M0 to M9 1ss | 2        | 4                             | -64.3                 | -70.3                 |                       |                       | -59.3                      | -41.25      | 18.1        |
|                 | HT/VHT40 STBC, M0 to M7, M0 to M9 1ss | 3        | 4                             | -64.3                 | -70.3                 | -69.8                 |                       | -58.4                      | -41.25      | 17.2        |
|                 | HT/VHT40 STBC, M0 to M7, M0 to M9 1ss | 4        | 4                             | -64.0                 | -70.4                 | -69.8                 | -69.9                 | -57.6                      | -41.25      | 16.3        |
| 5775            | Non HT/VHT80, 6 to 54 Mbps            | 1        | 4                             | -70.3                 |                       |                       |                       | -66.3                      | -41.25      | 25.1        |
|                 | Non HT/VHT80, 6 to 54 Mbps            | 2        | 4                             | -69.9                 | -70.5                 |                       |                       | -63.2                      | -41.25      | 21.9        |
|                 | Non HT/VHT80, 6 to 54 Mbps            | 3        | 4                             | -69.9                 | -70.5                 | -70.0                 |                       | -61.4                      | -41.25      | 20.1        |
|                 | Non HT/VHT80, 6 to 54 Mbps            | 4        | 4                             | -69.9                 | -70.5                 | -70.0                 | -69.8                 | -60.0                      | -41.25      | 18.8        |
|                 | HT/VHT80, M0 to M7, M0 to M9 1ss      | 1        | 4                             | -70.1                 |                       |                       |                       | -66.1                      | -41.25      | 24.9        |
|                 | HT/VHT80, M0 to M7, M0 to M9 1ss      | 2        | 4                             | -65.2                 | -70.5                 |                       |                       | -60.1                      | -41.25      | 18.8        |
|                 | HT/VHT80, M0 to M7, M0 to M9 1ss      | 3        | 4                             | -65.2                 | -70.5                 | -69.8                 |                       | -59.0                      | -41.25      | 17.8        |
|                 | HT/VHT80, M0 to M7, M0 to M9 1ss      | 4        | 4                             | -65.2                 | -70.5                 | -69.8                 | -69.8                 | -58.2                      | -41.25      | 17.0        |
|                 | HT/VHT80 STBC, M0 to M7, M0 to M9 1ss | 2        | 4                             | -65.2                 | -70.5                 |                       |                       | -60.1                      | -41.25      | 18.8        |
|                 | HT/VHT80 STBC, M0 to M7, M0 to M9 1ss | 3        | 4                             | -65.2                 | -70.5                 | -69.8                 |                       | -59.0                      | -41.25      | 17.8        |



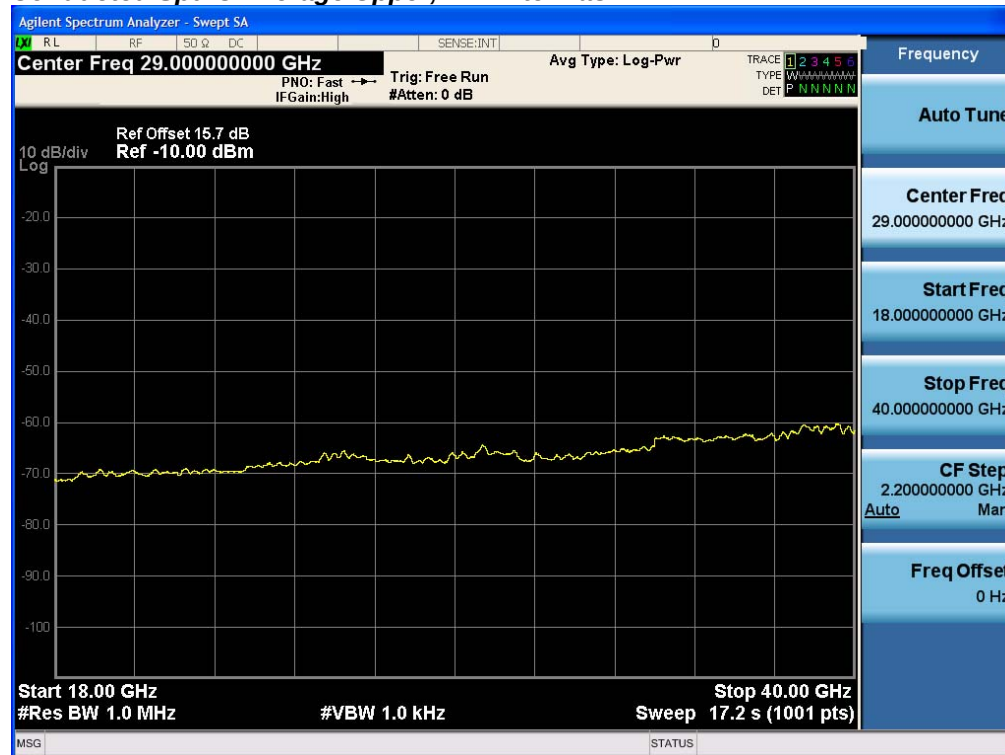
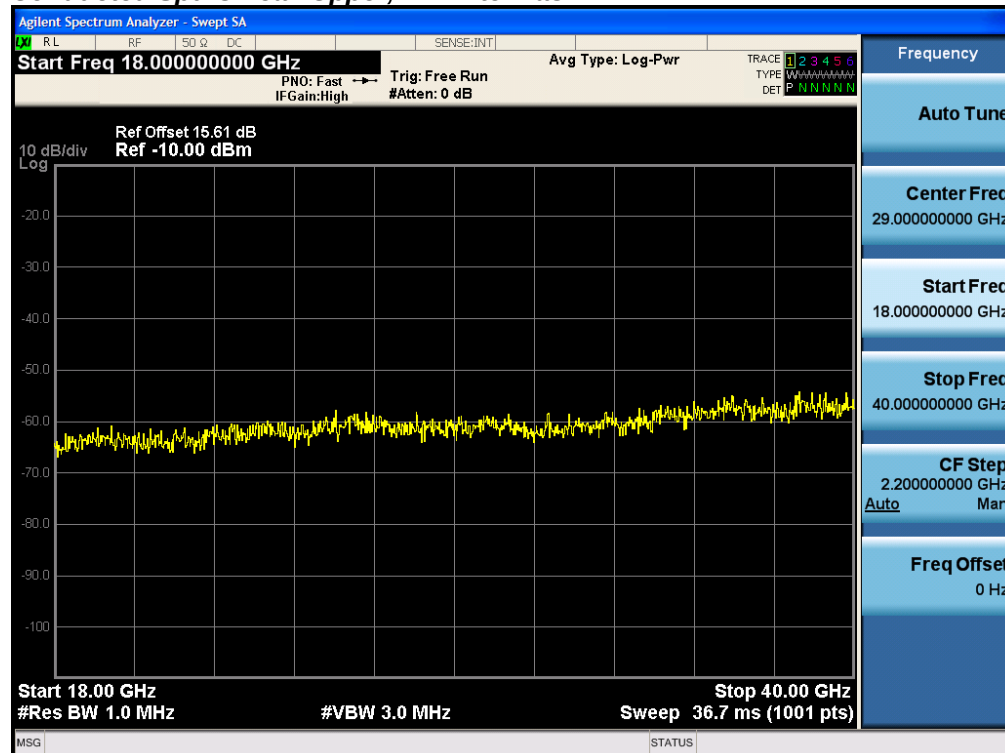
|      |                                       |   |   |       |       |       |       |       |        |      |
|------|---------------------------------------|---|---|-------|-------|-------|-------|-------|--------|------|
|      | HT/VHT80 STBC, M0 to M7, M0 to M9 1ss | 4 | 4 | -65.2 | -70.5 | -69.8 | -69.8 | -58.2 | -41.25 | 17.0 |
| 5785 | Non HT/VHT20, 6 to 54 Mbps            | 1 | 4 | -70.1 |       |       |       | -66.1 | -41.25 | 24.9 |
|      | Non HT/VHT20, 6 to 54 Mbps            | 2 | 4 | -70.1 | -69.9 |       |       | -63.0 | -41.25 | 21.7 |
|      | Non HT/VHT20, 6 to 54 Mbps            | 3 | 4 | -70.1 | -69.9 | -70.0 |       | -61.2 | -41.25 | 20.0 |
|      | Non HT/VHT20, 6 to 54 Mbps            | 4 | 4 | -70.1 | -69.9 | -70.0 | -69.7 | -59.9 | -41.25 | 18.7 |
|      | HT/VHT20, M0 to M7, M0 to M9 1ss      | 1 | 4 | -70.0 |       |       |       | -66.0 | -41.25 | 24.8 |
|      | HT/VHT20, M0 to M7, M0 to M9 1ss      | 2 | 4 | -70.0 | -69.7 |       |       | -62.8 | -41.25 | 21.6 |
|      | HT/VHT20, M0 to M7, M0 to M9 1ss      | 3 | 4 | -70.0 | -69.7 | -69.7 |       | -61.0 | -41.25 | 19.8 |
|      | HT/VHT20, M0 to M7, M0 to M9 1ss      | 4 | 4 | -70.0 | -69.7 | -69.7 | -69.8 | -59.8 | -41.25 | 18.5 |
|      | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 2 | 4 | -70.0 | -69.7 |       |       | -62.8 | -41.25 | 21.6 |
|      | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 3 | 4 | -70.0 | -69.7 | -69.7 |       | -61.0 | -41.25 | 19.8 |
|      | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 4 | 4 | -70.0 | -69.7 | -69.7 | -69.8 | -59.8 | -41.25 | 18.5 |
| 5795 | Non HT/VHT40, 6 to 54 Mbps            | 1 | 4 | -70.1 |       |       |       | -66.1 | -41.25 | 24.9 |
|      | Non HT/VHT40, 6 to 54 Mbps            | 2 | 4 | -70.1 | -70.6 |       |       | -63.3 | -41.25 | 22.1 |
|      | Non HT/VHT40, 6 to 54 Mbps            | 3 | 4 | -70.1 | -70.6 | -70.1 |       | -61.5 | -41.25 | 20.2 |
|      | Non HT/VHT40, 6 to 54 Mbps            | 4 | 4 | -70.1 | -70.6 | -70.1 | -70.0 | -60.2 | -41.25 | 18.9 |
|      | HT/VHT40, M0 to M7, M0 to M9 1ss      | 1 | 4 | -70.2 |       |       |       | -66.2 | -41.25 | 25.0 |
|      | HT/VHT40, M0 to M7, M0 to M9 1ss      | 2 | 4 | -70.1 | -70.3 |       |       | -63.2 | -41.25 | 21.9 |
|      | HT/VHT40, M0 to M7, M0 to M9 1ss      | 3 | 4 | -70.1 | -70.3 | -70.1 |       | -61.4 | -41.25 | 20.1 |
|      | HT/VHT40, M0 to M7, M0 to M9 1ss      | 4 | 4 | -70.1 | -70.3 | -70.1 | -70.2 | -60.2 | -41.25 | 18.9 |
|      | HT/VHT40 STBC, M0 to M7, M0 to M9 1ss | 2 | 4 | -70.1 | -70.3 |       |       | -63.2 | -41.25 | 21.9 |
|      | HT/VHT40 STBC, M0 to M7, M0 to M9 1ss | 3 | 4 | -70.1 | -70.3 | -70.1 |       | -61.4 | -41.25 | 20.1 |
|      | HT/VHT40 STBC, M0 to M7, M0 to M9 1ss | 4 | 4 | -70.1 | -70.3 | -70.1 | -70.2 | -60.2 | -41.25 | 18.9 |
| 5825 | Non HT/VHT20, 6 to 54 Mbps            | 1 | 4 | -70.5 |       |       |       | -66.5 | -41.25 | 25.3 |
|      | Non HT/VHT20, 6 to 54 Mbps            | 2 | 4 | -70.6 | -70.4 |       |       | -63.5 | -41.25 | 22.2 |
|      | Non HT/VHT20, 6 to 54 Mbps            | 3 | 4 | -70.6 | -70.4 | -70.2 |       | -61.6 | -41.25 | 20.4 |
|      | Non HT/VHT20, 6 to 54 Mbps            | 4 | 4 | -70.6 | -70.4 | -70.2 | -70.3 | -60.4 | -41.25 | 19.1 |
|      | HT/VHT20, M0 to M7, M0 to M9 1ss      | 1 | 4 | -70.6 |       |       |       | -66.6 | -41.25 | 25.4 |
|      | HT/VHT20, M0 to M7, M0 to M9 1ss      | 2 | 4 | -70.5 | -70.7 |       |       | -63.6 | -41.25 | 22.3 |
|      | HT/VHT20, M0 to M7, M0 to M9 1ss      | 3 | 4 | -65.8 | -70.9 | -70.5 |       | -59.6 | -41.25 | 18.4 |
|      | HT/VHT20, M0 to M7, M0 to M9 1ss      | 4 | 4 | -65.8 | -70.9 | -70.5 | -70.4 | -58.8 | -41.25 | 17.6 |
|      | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 2 | 4 | -70.5 | -70.7 |       |       | -63.6 | -41.25 | 22.3 |
|      | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 3 | 4 | -65.8 | -70.9 | -70.5 |       | -59.6 | -41.25 | 18.4 |
|      | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 4 | 4 | -65.8 | -70.9 | -70.5 | -70.4 | -58.8 | -41.25 | 17.6 |



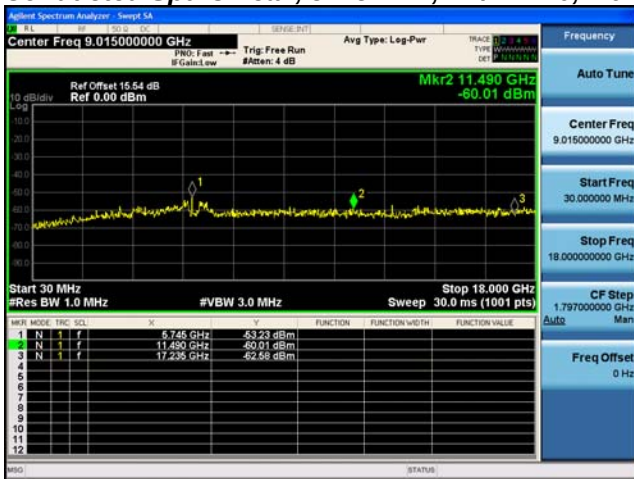
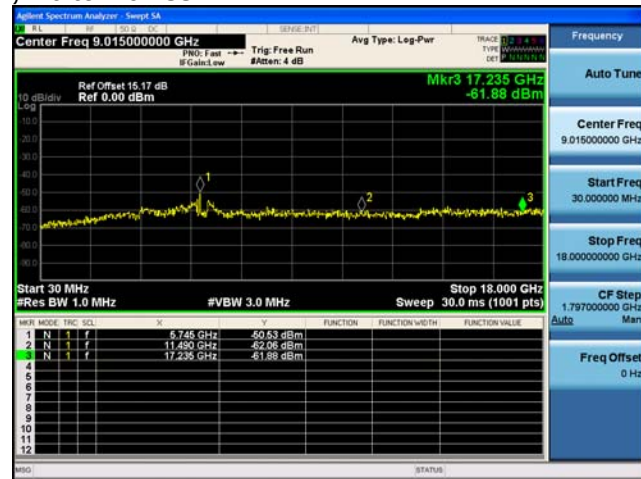
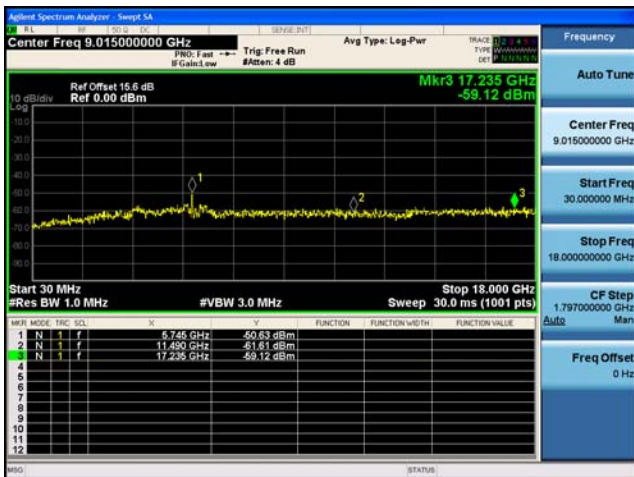
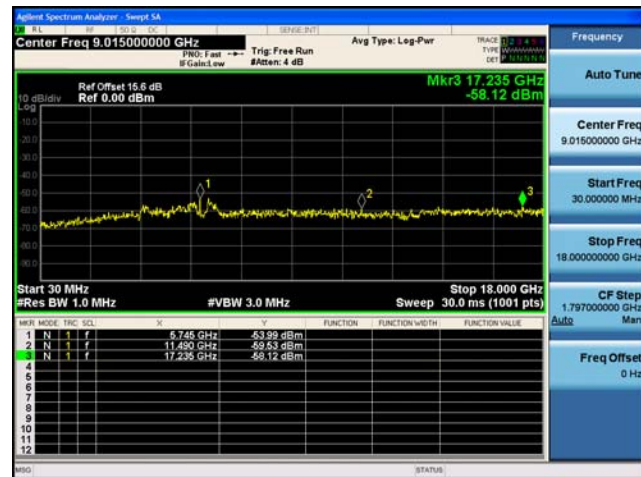
| Frequency (MHz) | Mode                                  | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 Spur Power (dBm) | Tx 2 Spur Power (dBm) | Tx 3 Spur Power (dBm) | Tx 4 Spur Power (dBm) | Total Conducted Spur (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|---------------------------------------|----------|-------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------------|-------------|-------------|
| 5745            | Non HT/VHT20, 6 to 54 Mbps            | 1        | 4                             | -59.7                 |                       |                       |                       | -55.7                      | -21.25      | 34.5        |
|                 | Non HT/VHT20, 6 to 54 Mbps            | 2        | 4                             | -60.2                 | -60.2                 |                       |                       | -53.2                      | -21.25      | 31.9        |
|                 | Non HT/VHT20, 6 to 54 Mbps            | 3        | 4                             | -60.2                 | -60.2                 | -60.5                 |                       | -51.5                      | -21.25      | 30.3        |
|                 | Non HT/VHT20, 6 to 54 Mbps            | 4        | 4                             | -60.7                 | -60.8                 | -59.1                 | -61.3                 | -50.4                      | -21.25      | 29.1        |
|                 | HT/VHT20, M0 to M7, M0 to M9 1ss      | 1        | 4                             | -62.5                 |                       |                       |                       | -58.5                      | -21.25      | 37.3        |
|                 | HT/VHT20, M0 to M7, M0 to M9 1ss      | 2        | 4                             | -60.0                 | -61.9                 |                       |                       | -53.8                      | -21.25      | 32.6        |
|                 | HT/VHT20, M0 to M7, M0 to M9 1ss      | 3        | 4                             | -60.0                 | -61.9                 | -59.1                 |                       | -51.4                      | -21.25      | 30.2        |
|                 | HT/VHT20, M0 to M7, M0 to M9 1ss      | 4        | 4                             | -60.0                 | -61.9                 | -59.1                 | -58.1                 | -49.5                      | -21.25      | 28.3        |
|                 | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 2        | 4                             | -60.0                 | -61.9                 |                       |                       | -53.8                      | -21.25      | 32.6        |
|                 | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 3        | 4                             | -60.0                 | -61.9                 | -59.1                 |                       | -51.4                      | -21.25      | 30.2        |
|                 | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 4        | 4                             | -60.0                 | -61.9                 | -59.1                 | -58.1                 | -49.5                      | -21.25      | 28.3        |
| 5755            | Non HT/VHT40, 6 to 54 Mbps            | 1        | 4                             | -60.9                 |                       |                       |                       | -56.9                      | -21.25      | 35.7        |
|                 | Non HT/VHT40, 6 to 54 Mbps            | 2        | 4                             | -61.8                 | -60.6                 |                       |                       | -54.1                      | -21.25      | 32.9        |
|                 | Non HT/VHT40, 6 to 54 Mbps            | 3        | 4                             | -61.8                 | -60.6                 | -59.1                 |                       | -51.6                      | -21.25      | 30.3        |
|                 | Non HT/VHT40, 6 to 54 Mbps            | 4        | 4                             | -61.2                 | -59.6                 | -58.3                 | -61.4                 | -49.9                      | -21.25      | 28.7        |
|                 | HT/VHT40, M0 to M7, M0 to M9 1ss      | 1        | 4                             | -60.6                 |                       |                       |                       | -56.6                      | -21.25      | 35.4        |
|                 | HT/VHT40, M0 to M7, M0 to M9 1ss      | 2        | 4                             | -60.8                 | -61.4                 |                       |                       | -54.1                      | -21.25      | 32.8        |
|                 | HT/VHT40, M0 to M7, M0 to M9 1ss      | 3        | 4                             | -60.8                 | -61.4                 | -59.8                 |                       | -51.8                      | -21.25      | 30.6        |
|                 | HT/VHT40, M0 to M7, M0 to M9 1ss      | 4        | 4                             | -60.1                 | -60.5                 | -61.5                 | -60.6                 | -50.6                      | -21.25      | 29.4        |
|                 | HT/VHT40 STBC, M0 to M7, M0 to M9 1ss | 2        | 4                             | -60.8                 | -61.4                 |                       |                       | -54.1                      | -21.25      | 32.8        |
|                 | HT/VHT40 STBC, M0 to M7, M0 to M9 1ss | 3        | 4                             | -60.8                 | -61.4                 | -59.8                 |                       | -51.8                      | -21.25      | 30.6        |
|                 | HT/VHT40 STBC, M0 to M7, M0 to M9 1ss | 4        | 4                             | -60.1                 | -60.5                 | -61.5                 | -60.6                 | -50.6                      | -21.25      | 29.4        |
| 5775            | Non HT/VHT80, 6 to 54 Mbps            | 1        | 4                             | -60.8                 |                       |                       |                       | -56.8                      | -21.25      | 35.6        |
|                 | Non HT/VHT80, 6 to 54 Mbps            | 2        | 4                             | -61.1                 | -62.1                 |                       |                       | -54.6                      | -21.25      | 33.3        |
|                 | Non HT/VHT80, 6 to 54 Mbps            | 3        | 4                             | -61.1                 | -62.1                 | -60.5                 |                       | -52.4                      | -21.25      | 31.2        |
|                 | Non HT/VHT80, 6 to 54 Mbps            | 4        | 4                             | -61.1                 | -62.1                 | -60.5                 | -58.8                 | -50.4                      | -21.25      | 29.2        |
|                 | HT/VHT80, M0 to M7, M0 to M9 1ss      | 1        | 4                             | -60.5                 |                       |                       |                       | -56.5                      | -21.25      | 35.3        |
|                 | HT/VHT80, M0 to M7, M0 to M9 1ss      | 2        | 4                             | -60.3                 | -62.6                 |                       |                       | -54.3                      | -21.25      | 33.0        |
|                 | HT/VHT80, M0 to M7, M0 to M9 1ss      | 3        | 4                             | -60.3                 | -62.6                 | -60.1                 |                       | -52.1                      | -21.25      | 30.8        |
|                 | HT/VHT80, M0 to M7, M0 to M9 1ss      | 4        | 4                             | -60.3                 | -62.6                 | -60.1                 | -59.6                 | -50.5                      | -21.25      | 29.2        |
|                 | HT/VHT80 STBC, M0 to M7, M0 to M9 1ss | 2        | 4                             | -60.3                 | -62.6                 |                       |                       | -54.3                      | -21.25      | 33.0        |
|                 | HT/VHT80 STBC, M0 to M7, M0 to M9 1ss | 3        | 4                             | -60.3                 | -62.6                 | -60.1                 |                       | -52.1                      | -21.25      | 30.8        |



|      |                                       |   |   |       |       |       |       |       |        |      |
|------|---------------------------------------|---|---|-------|-------|-------|-------|-------|--------|------|
|      | HT/VHT80 STBC, M0 to M7, M0 to M9 1ss | 4 | 4 | -60.3 | -62.6 | -60.1 | -59.6 | -50.5 | -21.25 | 29.2 |
| 5785 | Non HT/VHT20, 6 to 54 Mbps            | 1 | 4 | -60.8 |       |       |       | -56.8 | -21.25 | 35.6 |
|      | Non HT/VHT20, 6 to 54 Mbps            | 2 | 4 | -60.8 | -60.2 |       |       | -53.5 | -21.25 | 32.2 |
|      | Non HT/VHT20, 6 to 54 Mbps            | 3 | 4 | -60.8 | -60.2 | -60.4 |       | -51.7 | -21.25 | 30.4 |
|      | Non HT/VHT20, 6 to 54 Mbps            | 4 | 4 | -60.8 | -60.2 | -60.4 | -60.5 | -50.4 | -21.25 | 29.2 |
|      | HT/VHT20, M0 to M7, M0 to M9 1ss      | 1 | 4 | -61.2 |       |       |       | -57.2 | -21.25 | 36.0 |
|      | HT/VHT20, M0 to M7, M0 to M9 1ss      | 2 | 4 | -61.2 | -61.4 |       |       | -54.3 | -21.25 | 33.0 |
|      | HT/VHT20, M0 to M7, M0 to M9 1ss      | 3 | 4 | -61.2 | -61.4 | -60.4 |       | -52.2 | -21.25 | 31.0 |
|      | HT/VHT20, M0 to M7, M0 to M9 1ss      | 4 | 4 | -61.2 | -61.4 | -60.4 | -58.3 | -50.1 | -21.25 | 28.9 |
|      | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 2 | 4 | -61.2 | -61.4 |       |       | -54.3 | -21.25 | 33.0 |
|      | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 3 | 4 | -61.2 | -61.4 | -60.4 |       | -52.2 | -21.25 | 31.0 |
|      | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 4 | 4 | -61.2 | -61.4 | -60.4 | -58.3 | -50.1 | -21.25 | 28.9 |
| 5795 | Non HT/VHT40, 6 to 54 Mbps            | 1 | 4 | -60.8 |       |       |       | -56.8 | -21.25 | 35.6 |
|      | Non HT/VHT40, 6 to 54 Mbps            | 2 | 4 | -61.1 | -60.5 |       |       | -53.8 | -21.25 | 32.5 |
|      | Non HT/VHT40, 6 to 54 Mbps            | 3 | 4 | -61.1 | -60.5 | -61.4 |       | -52.2 | -21.25 | 31.0 |
|      | Non HT/VHT40, 6 to 54 Mbps            | 4 | 4 | -61.1 | -60.5 | -61.4 | -59.2 | -50.4 | -21.25 | 29.2 |
|      | HT/VHT40, M0 to M7, M0 to M9 1ss      | 1 | 4 | -60.5 |       |       |       | -56.5 | -21.25 | 35.3 |
|      | HT/VHT40, M0 to M7, M0 to M9 1ss      | 2 | 4 | -59.9 | -62.4 |       |       | -54.0 | -21.25 | 32.7 |
|      | HT/VHT40, M0 to M7, M0 to M9 1ss      | 3 | 4 | -59.9 | -62.4 | -61.5 |       | -52.4 | -21.25 | 31.1 |
|      | HT/VHT40, M0 to M7, M0 to M9 1ss      | 4 | 4 | -59.9 | -62.4 | -61.5 | -59.8 | -50.7 | -21.25 | 29.5 |
|      | HT/VHT40 STBC, M0 to M7, M0 to M9 1ss | 2 | 4 | -59.9 | -62.4 |       |       | -54.0 | -21.25 | 32.7 |
|      | HT/VHT40 STBC, M0 to M7, M0 to M9 1ss | 3 | 4 | -59.9 | -62.4 | -61.5 |       | -52.4 | -21.25 | 31.1 |
|      | HT/VHT40 STBC, M0 to M7, M0 to M9 1ss | 4 | 4 | -59.9 | -62.4 | -61.5 | -59.8 | -50.7 | -21.25 | 29.5 |
| 5825 | Non HT/VHT20, 6 to 54 Mbps            | 1 | 4 | -60.3 |       |       |       | -56.3 | -21.25 | 35.1 |
|      | Non HT/VHT20, 6 to 54 Mbps            | 2 | 4 | -60.8 | -60.9 |       |       | -53.8 | -21.25 | 32.6 |
|      | Non HT/VHT20, 6 to 54 Mbps            | 3 | 4 | -60.8 | -60.9 | -62.0 |       | -52.4 | -21.25 | 31.2 |
|      | Non HT/VHT20, 6 to 54 Mbps            | 4 | 4 | -60.8 | -60.9 | -62.0 | -60.8 | -51.1 | -21.25 | 29.8 |
|      | HT/VHT20, M0 to M7, M0 to M9 1ss      | 1 | 4 | -59.8 |       |       |       | -55.8 | -21.25 | 34.6 |
|      | HT/VHT20, M0 to M7, M0 to M9 1ss      | 2 | 4 | -60.8 | -61.3 |       |       | -54.0 | -21.25 | 32.8 |
|      | HT/VHT20, M0 to M7, M0 to M9 1ss      | 3 | 4 | -60.5 | -60.8 | -61.0 |       | -52.0 | -21.25 | 30.7 |
|      | HT/VHT20, M0 to M7, M0 to M9 1ss      | 4 | 4 | -60.5 | -60.8 | -61.0 | -60.3 | -50.6 | -21.25 | 29.4 |
|      | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 2 | 4 | -60.8 | -61.3 |       |       | -54.0 | -21.25 | 32.8 |
|      | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 3 | 4 | -60.5 | -60.8 | -61.0 |       | -52.0 | -21.25 | 30.7 |
|      | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 4 | 4 | -60.5 | -60.8 | -61.0 | -60.3 | -50.6 | -21.25 | 29.4 |

**Conducted Spurs Average Upper, All Antennas****Conducted Spurs Peak Upper, All Antennas**

**Conducted Spurs Average, 5755 MHz, HT/VHT40, M0 to M7, M0 to M9 1ss****Antenna A****Antenna B****Antenna C****Antenna D**

**Conducted Spurs Peak, 5745 MHz, HT/VHT20, M0 to M7, M0 to M9 1ss****Antenna A****Antenna B****Antenna C****Antenna D**

## A.5 Conducted Bandedge

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

(4) 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.

(6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in 15.209.

(7) The provisions of §15.205 apply to intentional radiators operating under this section.

(8) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits

### Test Procedure

Ref. KDB 789033 D02 General UNII Test Procedures New Rules v01  
ANSI C63.10: 2013

| Conducted Bandedge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Procedure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <ol style="list-style-type: none"> <li>1. Connect the antenna port(s) to the spectrum analyzer input.</li> <li>2. Place the radio in continuous transmit mode. Use the procedures in ANSI C63.10: 2013 to substitute conducted measurements in place of radiated measurements.</li> <li>3. Configure Spectrum analyzer as per test parameters below (be sure to enter all losses between the transmitter output and the spectrum analyzer).</li> <li>4. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands.</li> <li>5. The "measure-and-sum technique" is used for measuring in-band transmit power of a device. In the measure-and-sum approach, the conducted emission level is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically to determine the total emission level from the device. Summing is performed in linear power units. The worst case output is recorded.</li> <li>6. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands</li> <li>7. Capture graphs and record pertinent measurement data.</li> </ol> |

Ref. ANSI C63.10: 2013 section 12.7.6 (peak) & 12.7.7.3 (average, Method VB-A (Alternative))

| Conducted Bandedge                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------|
| Test parameters restricted Band                                                                                                   |
| RBW = 1 MHz<br>VBW $\geq 3 \times$ RBW for Peak, 100Hz for Average<br>Sweep = Auto couple<br>Detector = Peak<br>Trace = Max Hold. |



| System Number | Description | Samples | System under test                   | Support equipment                   |
|---------------|-------------|---------|-------------------------------------|-------------------------------------|
| 1             | EUT         | S01     | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
|               | Support     | S02     | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

|                                   |                                                   |
|-----------------------------------|---------------------------------------------------|
| <b>Tested By :</b><br>John Liscio | <b>Date of testing:</b><br>February-15 - March-15 |
| <b>Test Result : PASS</b>         |                                                   |

See Appendix C for list of test equipment



| Frequency (MHz) | Mode                                  | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 Bandedge Level (dBm) | Tx 2 Bandedge Level (dBm) | Tx 3 Bandedge Level (dBm) | Tx 4 Bandedge Level (dBm) | Total Tx Bandedge Level (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|---------------------------------------|----------|-------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|-------------------------------|-------------|-------------|
| 5745            | Non HT/VHT20, 6 to 54 Mbps            | 1        | 4                             | -46.0                     |                           |                           |                           | -42.0                         | -41.25      | 0.8         |
|                 | Non HT/VHT20, 6 to 54 Mbps            | 2        | 4                             | -52.2                     | -48.4                     |                           |                           | -42.9                         | -41.25      | 1.6         |
|                 | Non HT/VHT20, 6 to 54 Mbps            | 3        | 4                             | -52.2                     | -48.4                     | -51.8                     |                           | -41.7                         | -41.25      | 0.4         |
|                 | Non HT/VHT20, 6 to 54 Mbps            | 4        | 4                             | -52.9                     | -53.3                     | -55.3                     | -55.7                     | -44.1                         | -41.25      | 2.9         |
|                 | HT/VHT20, M0 to M7, M0 to M9 1ss      | 1        | 4                             | -47.2                     |                           |                           |                           | -43.2                         | -41.25      | 2.0         |
|                 | HT/VHT20, M0 to M7, M0 to M9 1ss      | 2        | 4                             | -54.3                     | -47.9                     |                           |                           | -43.0                         | -41.25      | 1.8         |
|                 | HT/VHT20, M0 to M7, M0 to M9 1ss      | 3        | 4                             | -54.3                     | -47.9                     | -55.5                     |                           | -42.4                         | -41.25      | 1.2         |
|                 | HT/VHT20, M0 to M7, M0 to M9 1ss      | 4        | 4                             | -54.3                     | -47.9                     | -55.5                     | -53.1                     | -41.6                         | -41.25      | 0.3         |
|                 | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 2        | 4                             | -54.3                     | -47.9                     |                           |                           | -43.0                         | -41.25      | 1.8         |
|                 | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 3        | 4                             | -54.3                     | -47.9                     | -55.5                     |                           | -42.4                         | -41.25      | 1.2         |
|                 | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 4        | 4                             | -54.3                     | -47.9                     | -55.5                     | -53.1                     | -41.6                         | -41.25      | 0.3         |
| 5755            | Non HT/VHT40, 6 to 54 Mbps            | 1        | 4                             | -46.3                     |                           |                           |                           | -42.3                         | -41.25      | 1.1         |
|                 | Non HT/VHT40, 6 to 54 Mbps            | 2        | 4                             | -54.1                     | -50.5                     |                           |                           | -44.9                         | -41.25      | 3.7         |
|                 | Non HT/VHT40, 6 to 54 Mbps            | 3        | 4                             | -54.1                     | -50.5                     | -53.9                     |                           | -43.7                         | -41.25      | 2.5         |
|                 | Non HT/VHT40, 6 to 54 Mbps            | 4        | 4                             | -54.1                     | -50.5                     | -53.9                     | -50.7                     | -42.0                         | -41.25      | 0.7         |
|                 | HT/VHT40, M0 to M7, M0 to M9 1ss      | 1        | 4                             | -45.5                     |                           |                           |                           | -41.5                         | -41.25      | 0.3         |
|                 | HT/VHT40, M0 to M7, M0 to M9 1ss      | 2        | 4                             | -47.6                     | -53.9                     |                           |                           | -42.7                         | -41.25      | 1.4         |
|                 | HT/VHT40, M0 to M7, M0 to M9 1ss      | 3        | 4                             | -47.6                     | -53.9                     | -51.2                     |                           | -41.4                         | -41.25      | 0.1         |
|                 | HT/VHT40, M0 to M7, M0 to M9 1ss      | 4        | 4                             | -51.7                     | -52.3                     | -54.9                     | -49.9                     | -41.8                         | -41.25      | 0.6         |
|                 | HT/VHT40 STBC, M0 to M7, M0 to M9 1ss | 2        | 4                             | -47.6                     | -53.9                     |                           |                           | -42.7                         | -41.25      | 1.4         |
|                 | HT/VHT40 STBC, M0 to M7, M0 to M9 1ss | 3        | 4                             | -47.6                     | -53.9                     | -51.2                     |                           | -41.4                         | -41.25      | 0.1         |
|                 | HT/VHT40 STBC, M0 to M7, M0 to M9 1ss | 4        | 4                             | -51.7                     | -52.3                     | -54.9                     | -49.9                     | -41.8                         | -41.25      | 0.6         |
| 5775            | Non HT/VHT80, 6 to 54 Mbps            | 1        | 4                             | -45.5                     |                           |                           |                           | -41.5                         | -41.25      | 0.3         |
|                 | Non HT/VHT80, 6 to 54 Mbps            | 2        | 4                             | -55.5                     | -52.3                     |                           |                           | -46.6                         | -41.25      | 5.4         |
|                 | Non HT/VHT80, 6 to 54 Mbps            | 3        | 4                             | -55.5                     | -52.3                     | -47.8                     |                           | -42.0                         | -41.25      | 0.7         |
|                 | Non HT/VHT80, 6 to 54 Mbps            | 4        | 4                             | -55.5                     | -52.3                     | -47.8                     | -53.5                     | -41.3                         | -41.25      | 0.0         |
|                 | HT/VHT80, M0 to M7, M0 to M9 1ss      | 1        | 4                             | -47.6                     |                           |                           |                           | -43.6                         | -41.25      | 2.4         |
|                 | HT/VHT80, M0 to M7, M0 to M9 1ss      | 2        | 4                             | -50.8                     | -53.9                     |                           |                           | -45.1                         | -41.25      | 3.8         |
|                 | HT/VHT80, M0 to M7, M0 to M9 1ss      | 3        | 4                             | -50.8                     | -53.9                     | -52.0                     |                           | -43.3                         | -41.25      | 2.0         |
|                 | HT/VHT80, M0 to M7, M0 to M9 1ss      | 4        | 4                             | -50.8                     | -53.9                     | -52.0                     | -50.2                     | -41.5                         | -41.25      | 0.2         |
|                 | HT/VHT80 STBC, M0 to M7, M0 to M9 1ss | 2        | 4                             | -50.8                     | -53.9                     |                           |                           | -45.1                         | -41.25      | 3.8         |
|                 | HT/VHT80 STBC, M0 to M7, M0 to M9 1ss | 3        | 4                             | -50.8                     | -53.9                     | -52.0                     |                           | -43.3                         | -41.25      | 2.0         |



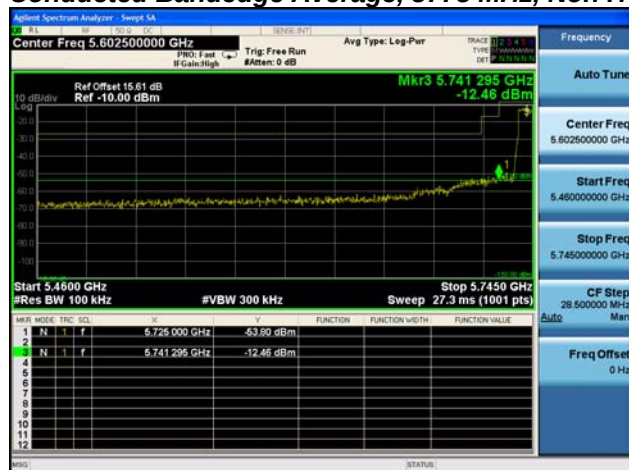
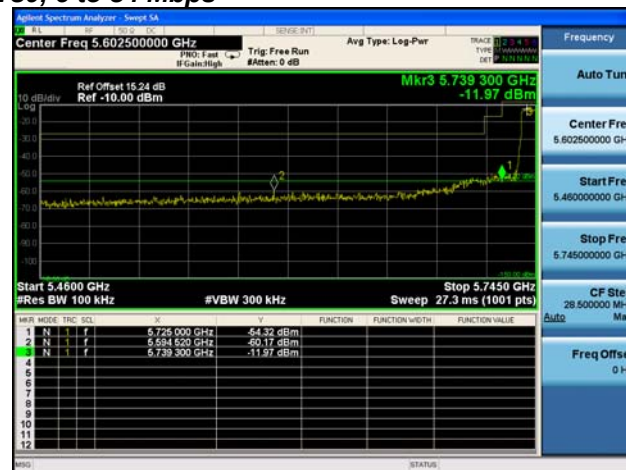
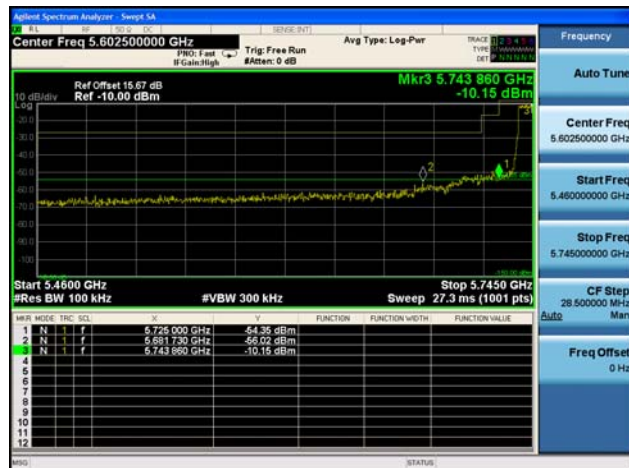
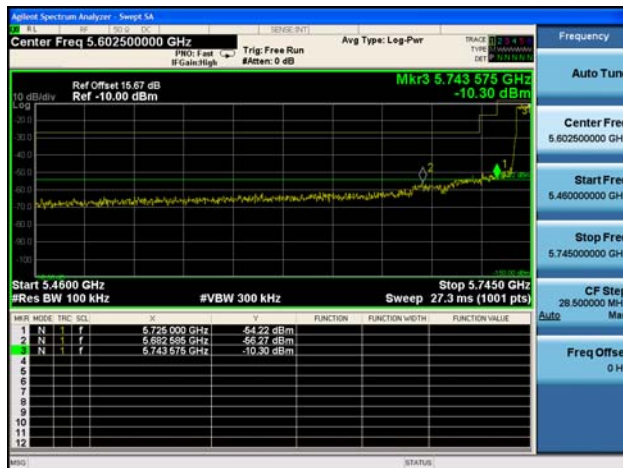
|      |                                       |   |   |       |       |       |       |       |        |     |
|------|---------------------------------------|---|---|-------|-------|-------|-------|-------|--------|-----|
|      | HT/VHT80 STBC, M0 to M7, M0 to M9 1ss | 4 | 4 | -50.8 | -53.9 | -52.0 | -50.2 | -41.5 | -41.25 | 0.2 |
| 5795 | Non HT/VHT40, 6 to 54 Mbps            | 1 | 4 | -46.1 |       |       |       | -42.1 | -41.25 | 0.9 |
|      | Non HT/VHT40, 6 to 54 Mbps            | 2 | 4 | -53.7 | -52.3 |       |       | -45.9 | -41.25 | 4.7 |
|      | Non HT/VHT40, 6 to 54 Mbps            | 3 | 4 | -53.7 | -52.3 | -54.5 |       | -44.6 | -41.25 | 3.4 |
|      | Non HT/VHT40, 6 to 54 Mbps            | 4 | 4 | -53.7 | -52.3 | -54.5 | -53.1 | -43.3 | -41.25 | 2.1 |
|      | HT/VHT40, M0 to M7, M0 to M9 1ss      | 1 | 4 | -48.7 |       |       |       | -44.7 | -41.25 | 3.5 |
|      | HT/VHT40, M0 to M7, M0 to M9 1ss      | 2 | 4 | -53.6 | -51.8 |       |       | -45.6 | -41.25 | 4.3 |
|      | HT/VHT40, M0 to M7, M0 to M9 1ss      | 3 | 4 | -53.6 | -51.8 | -55.3 |       | -44.6 | -41.25 | 3.3 |
|      | HT/VHT40, M0 to M7, M0 to M9 1ss      | 4 | 4 | -53.6 | -51.8 | -55.3 | -52.8 | -43.2 | -41.25 | 1.9 |
|      | HT/VHT40 STBC, M0 to M7, M0 to M9 1ss | 2 | 4 | -53.6 | -51.8 |       |       | -45.6 | -41.25 | 4.3 |
|      | HT/VHT40 STBC, M0 to M7, M0 to M9 1ss | 3 | 4 | -53.6 | -51.8 | -55.3 |       | -44.6 | -41.25 | 3.3 |
|      | HT/VHT40 STBC, M0 to M7, M0 to M9 1ss | 4 | 4 | -53.6 | -51.8 | -55.3 | -52.8 | -43.2 | -41.25 | 1.9 |
| 5825 | Non HT/VHT20, 6 to 54 Mbps            | 1 | 4 | -46.7 |       |       |       | -42.7 | -41.25 | 1.5 |
|      | Non HT/VHT20, 6 to 54 Mbps            | 2 | 4 | -50.4 | -49.2 |       |       | -42.7 | -41.25 | 1.5 |
|      | Non HT/VHT20, 6 to 54 Mbps            | 3 | 4 | -50.4 | -49.2 | -53.7 |       | -42.0 | -41.25 | 0.7 |
|      | Non HT/VHT20, 6 to 54 Mbps            | 4 | 4 | -53.4 | -51.4 | -53.1 | -53.5 | -42.7 | -41.25 | 1.5 |
|      | HT/VHT20, M0 to M7, M0 to M9 1ss      | 1 | 4 | -50.4 |       |       |       | -46.4 | -41.25 | 5.2 |
|      | HT/VHT20, M0 to M7, M0 to M9 1ss      | 2 | 4 | -52.6 | -50.0 |       |       | -44.1 | -41.25 | 2.8 |
|      | HT/VHT20, M0 to M7, M0 to M9 1ss      | 3 | 4 | -52.6 | -50.0 | -53.4 |       | -43.0 | -41.25 | 1.7 |
|      | HT/VHT20, M0 to M7, M0 to M9 1ss      | 4 | 4 | -54.6 | -53.8 | -57.2 | -55.8 | -45.1 | -41.25 | 3.9 |
|      | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 2 | 4 | -52.6 | -50.0 |       |       | -44.1 | -41.25 | 2.8 |
|      | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 3 | 4 | -52.6 | -50.0 | -53.4 |       | -43.0 | -41.25 | 1.7 |
|      | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 4 | 4 | -54.6 | -53.8 | -57.2 | -55.8 | -45.1 | -41.25 | 3.9 |

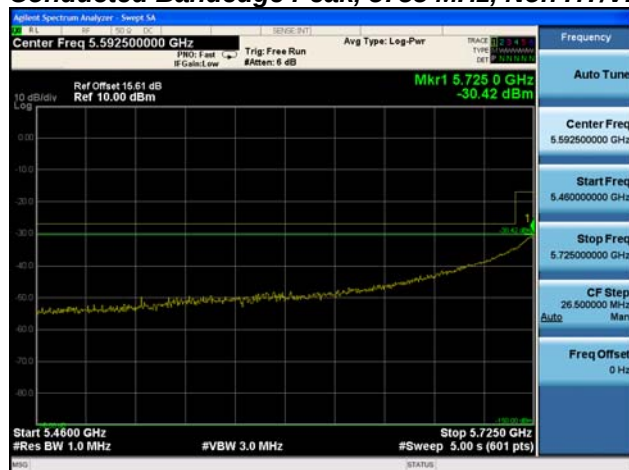
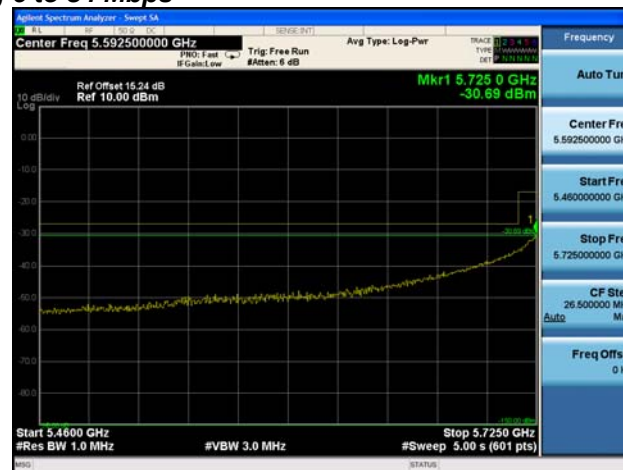
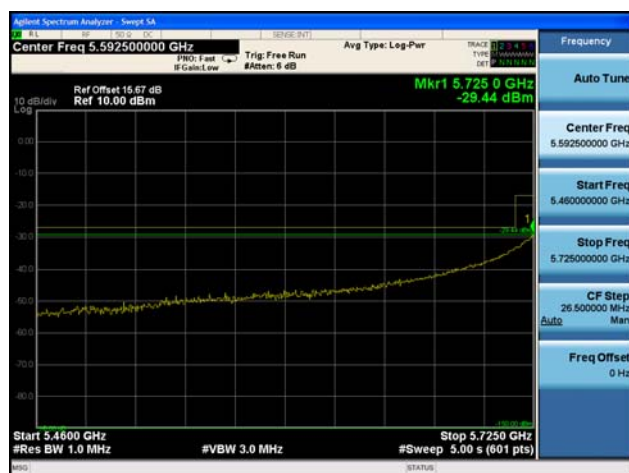


| Frequency (MHz) | Mode                                  | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 Bandedge Level (dBm) | Tx 2 Bandedge Level (dBm) | Tx 3 Bandedge Level (dBm) | Tx 4 Bandedge Level (dBm) | Total Tx Bandedge Level (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|---------------------------------------|----------|-------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|-------------------------------|-------------|-------------|
| 5745            | Non HT/VHT20, 6 to 54 Mbps            | 1        | 4                             | -28.7                     |                           |                           |                           | -24.7                         | -21.25      | 3.5         |
|                 | Non HT/VHT20, 6 to 54 Mbps            | 2        | 4                             | -34.1                     | -33.5                     |                           |                           | -26.8                         | -21.25      | 5.5         |
|                 | Non HT/VHT20, 6 to 54 Mbps            | 3        | 4                             | -34.1                     | -33.5                     | -36.5                     |                           | -25.7                         | -21.25      | 4.5         |
|                 | Non HT/VHT20, 6 to 54 Mbps            | 4        | 4                             | -38.6                     | -37.1                     | -38.3                     | -38.7                     | -28.1                         | -21.25      | 6.9         |
|                 | HT/VHT20, M0 to M7, M0 to M9 1ss      | 1        | 4                             | -27.6                     |                           |                           |                           | -23.6                         | -21.25      | 2.4         |
|                 | HT/VHT20, M0 to M7, M0 to M9 1ss      | 2        | 4                             | -34.4                     | -33.2                     |                           |                           | -26.7                         | -21.25      | 5.5         |
|                 | HT/VHT20, M0 to M7, M0 to M9 1ss      | 3        | 4                             | -34.4                     | -33.2                     | -37.9                     |                           | -26.0                         | -21.25      | 4.7         |
|                 | HT/VHT20, M0 to M7, M0 to M9 1ss      | 4        | 4                             | -34.4                     | -33.2                     | -37.9                     | -37.5                     | -25.3                         | -21.25      | 4.0         |
|                 | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 2        | 4                             | -34.4                     | -33.2                     |                           |                           | -26.7                         | -21.25      | 5.5         |
|                 | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 3        | 4                             | -34.4                     | -33.2                     | -37.9                     |                           | -26.0                         | -21.25      | 4.7         |
|                 | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 4        | 4                             | -34.4                     | -33.2                     | -37.9                     | -37.5                     | -25.3                         | -21.25      | 4.0         |
| 5755            | Non HT/VHT40, 6 to 54 Mbps            | 1        | 4                             | -33.3                     |                           |                           |                           | -29.3                         | -21.25      | 8.1         |
|                 | Non HT/VHT40, 6 to 54 Mbps            | 2        | 4                             | -30.4                     | -30.4                     |                           |                           | -23.4                         | -21.25      | 2.1         |
|                 | Non HT/VHT40, 6 to 54 Mbps            | 3        | 4                             | -30.4                     | -30.4                     | -29.4                     |                           | -21.3                         | -21.25      | 0.0         |
|                 | Non HT/VHT40, 6 to 54 Mbps            | 4        | 4                             | -32.0                     | -32.7                     | -30.9                     | -31.3                     | -21.7                         | -21.25      | 0.4         |
|                 | HT/VHT40, M0 to M7, M0 to M9 1ss      | 1        | 4                             | -37.1                     |                           |                           |                           | -33.1                         | -21.25      | 11.9        |
|                 | HT/VHT40, M0 to M7, M0 to M9 1ss      | 2        | 4                             | -38.4                     | -39.2                     |                           |                           | -31.8                         | -21.25      | 10.5        |
|                 | HT/VHT40, M0 to M7, M0 to M9 1ss      | 3        | 4                             | -38.4                     | -39.2                     | -37.9                     |                           | -29.7                         | -21.25      | 8.4         |
|                 | HT/VHT40, M0 to M7, M0 to M9 1ss      | 4        | 4                             | -39.3                     | -39.8                     | -39.9                     | -39.5                     | -29.6                         | -21.25      | 8.3         |
|                 | HT/VHT40 STBC, M0 to M7, M0 to M9 1ss | 2        | 4                             | -38.4                     | -39.2                     |                           |                           | -31.8                         | -21.25      | 10.5        |
|                 | HT/VHT40 STBC, M0 to M7, M0 to M9 1ss | 3        | 4                             | -38.4                     | -39.2                     | -37.9                     |                           | -29.7                         | -21.25      | 8.4         |
|                 | HT/VHT40 STBC, M0 to M7, M0 to M9 1ss | 4        | 4                             | -39.3                     | -39.8                     | -39.9                     | -39.5                     | -29.6                         | -21.25      | 8.3         |
| 5775            | Non HT/VHT80, 6 to 54 Mbps            | 1        | 4                             | -28.3                     |                           |                           |                           | -24.3                         | -21.25      | 3.1         |
|                 | Non HT/VHT80, 6 to 54 Mbps            | 2        | 4                             | -33.7                     | -36.5                     |                           |                           | -27.9                         | -21.25      | 6.6         |
|                 | Non HT/VHT80, 6 to 54 Mbps            | 3        | 4                             | -33.7                     | -36.5                     | -34.4                     |                           | -25.9                         | -21.25      | 4.7         |
|                 | Non HT/VHT80, 6 to 54 Mbps            | 4        | 4                             | -33.7                     | -36.5                     | -34.4                     | -33.3                     | -24.3                         | -21.25      | 3.0         |
|                 | HT/VHT80, M0 to M7, M0 to M9 1ss      | 1        | 4                             | -32.8                     |                           |                           |                           | -28.8                         | -21.25      | 7.6         |
|                 | HT/VHT80, M0 to M7, M0 to M9 1ss      | 2        | 4                             | -37.4                     | -35.1                     |                           |                           | -29.1                         | -21.25      | 7.8         |
|                 | HT/VHT80, M0 to M7, M0 to M9 1ss      | 3        | 4                             | -37.4                     | -35.1                     | -37.8                     |                           | -27.8                         | -21.25      | 6.6         |
|                 | HT/VHT80, M0 to M7, M0 to M9 1ss      | 4        | 4                             | -37.4                     | -35.1                     | -37.8                     | -37.0                     | -26.7                         | -21.25      | 5.4         |
|                 | HT/VHT80 STBC, M0 to M7, M0 to M9 1ss | 2        | 4                             | -37.4                     | -35.1                     |                           |                           | -29.1                         | -21.25      | 7.8         |
|                 | HT/VHT80 STBC, M0 to M7, M0 to M9 1ss | 3        | 4                             | -37.4                     | -35.1                     | -37.8                     |                           | -27.8                         | -21.25      | 6.6         |



|      |                                       |   |   |       |       |       |       |       |        |     |
|------|---------------------------------------|---|---|-------|-------|-------|-------|-------|--------|-----|
|      | HT/VHT80 STBC, M0 to M7, M0 to M9 1ss | 4 | 4 | -37.4 | -35.1 | -37.8 | -37.0 | -26.7 | -21.25 | 5.4 |
| 5795 | Non HT/VHT40, 6 to 54 Mbps            | 1 | 4 | -28.6 |       |       |       | -24.6 | -21.25 | 3.4 |
|      | Non HT/VHT40, 6 to 54 Mbps            | 2 | 4 | -36.4 | -37.6 |       |       | -29.9 | -21.25 | 8.7 |
|      | Non HT/VHT40, 6 to 54 Mbps            | 3 | 4 | -36.4 | -37.6 | -39.0 |       | -28.8 | -21.25 | 7.5 |
|      | Non HT/VHT40, 6 to 54 Mbps            | 4 | 4 | -36.4 | -37.6 | -39.0 | -37.9 | -27.6 | -21.25 | 6.4 |
|      | HT/VHT40, M0 to M7, M0 to M9 1ss      | 1 | 4 | -33.8 |       |       |       | -29.8 | -21.25 | 8.6 |
|      | HT/VHT40, M0 to M7, M0 to M9 1ss      | 2 | 4 | -38.8 | -37.6 |       |       | -31.1 | -21.25 | 9.9 |
|      | HT/VHT40, M0 to M7, M0 to M9 1ss      | 3 | 4 | -38.8 | -37.6 | -38.9 |       | -29.6 | -21.25 | 8.4 |
|      | HT/VHT40, M0 to M7, M0 to M9 1ss      | 4 | 4 | -38.8 | -37.6 | -38.9 | -37.8 | -28.2 | -21.25 | 7.0 |
|      | HT/VHT40 STBC, M0 to M7, M0 to M9 1ss | 2 | 4 | -38.8 | -37.6 |       |       | -31.1 | -21.25 | 9.9 |
|      | HT/VHT40 STBC, M0 to M7, M0 to M9 1ss | 3 | 4 | -38.8 | -37.6 | -38.9 |       | -29.6 | -21.25 | 8.4 |
|      | HT/VHT40 STBC, M0 to M7, M0 to M9 1ss | 4 | 4 | -38.8 | -37.6 | -38.9 | -37.8 | -28.2 | -21.25 | 7.0 |
| 5825 | Non HT/VHT20, 6 to 54 Mbps            | 1 | 4 | -31.2 |       |       |       | -27.2 | -21.25 | 6.0 |
|      | Non HT/VHT20, 6 to 54 Mbps            | 2 | 4 | -35.7 | -33.3 |       |       | -27.3 | -21.25 | 6.1 |
|      | Non HT/VHT20, 6 to 54 Mbps            | 3 | 4 | -35.7 | -33.3 | -38.9 |       | -26.6 | -21.25 | 5.4 |
|      | Non HT/VHT20, 6 to 54 Mbps            | 4 | 4 | -35.7 | -33.3 | -38.9 | -36.9 | -25.7 | -21.25 | 4.5 |
|      | HT/VHT20, M0 to M7, M0 to M9 1ss      | 1 | 4 | -27.3 |       |       |       | -23.3 | -21.25 | 2.1 |
|      | HT/VHT20, M0 to M7, M0 to M9 1ss      | 2 | 4 | -30.9 | -27.5 |       |       | -21.9 | -21.25 | 0.6 |
|      | HT/VHT20, M0 to M7, M0 to M9 1ss      | 3 | 4 | -36.7 | -34.0 | -39.4 |       | -27.4 | -21.25 | 6.1 |
|      | HT/VHT20, M0 to M7, M0 to M9 1ss      | 4 | 4 | -36.7 | -34.0 | -39.4 | -38.1 | -26.5 | -21.25 | 5.3 |
|      | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 2 | 4 | -30.9 | -27.5 |       |       | -21.9 | -21.25 | 0.6 |
|      | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 3 | 4 | -36.7 | -34.0 | -39.4 |       | -27.4 | -21.25 | 6.1 |
|      | HT/VHT20 STBC, M0 to M7, M0 to M9 1ss | 4 | 4 | -36.7 | -34.0 | -39.4 | -38.1 | -26.5 | -21.25 | 5.3 |

**Conducted Bandedge Average, 5775 MHz, Non HT/VHT80, 6 to 54 Mbps****Antenna A****Antenna B****Antenna C****Antenna D**

**Conducted Bandedge Peak, 5755 MHz, Non HT/VHT40, 6 to 54 Mbps****Antenna A****Antenna B****Antenna C**

**Appendix B: Test Equipment/Software Used to perform the test**

| Cis Number | Manufacturer     | Model                 | Description                                 | Calibration Due Date |
|------------|------------------|-----------------------|---------------------------------------------|----------------------|
| 3003       | HP               | 83731B                | Synthesized Signal Generator                | 3/13/2016            |
| 4882       | EMC Test Systems | 3115                  | Double Ridged Guide Horn Antenna            | 7/24/2015            |
| 5691       | Miteq            | NSP1800-25-S1         | Broadband Preamplifier (1-18GHz)            | 1/29/2016            |
| 8166       | HP               | 8491B Opt 010         | 10dB Attenuator                             | 2/2/2016             |
| 20975      | Micro-Coax       | UFB311A-0-1344-520520 | RF Coaxial Cable, to 18GHz, 134.4 in        | 2/18/2016            |
| 30559      | Micro-Coax       | UFB311A-1-0950-504504 | RF Coaxial Cable, to 18GHz, 95 in           | 2/20/2016            |
| 30652      | Sunol Sciences   | JB1                   | Combination Antenna, 30MHz-2GHz             | 11/5/2015            |
| 33988      | Agilent          | E4446A                | Spectrum Analyzer, 3Hz-44GHz                | 12/9/2015            |
| 41929      | Newport          | iBTHP-5-DB9           | 5 inch Temp/RH/Press Sensor w/20ft cable    | 12/20/2015           |
| 41979      | Cisco            | 1840                  | 18-40GHz EMI Test Head/Verification Fixture | 7/9/2015             |
| 43124      | Cisco            | Above 1GHz Site Cal   | Above 1GHz Cisp Site Verification           | 1/15/2016            |
| CIS-50378  | Agilent          | N9030A                | PXA Spectrum Analyzer                       | 1/5/2016             |
| 47282      | Huber + Suhner   | Sucoflex 102E         | 40GHz Cable K Connector                     | 5/2/2015             |
| 47410      | Agilent          | N9038A                | EMI Receiver                                | 1/5/2016             |
| 51642      | Huber+Suhner     | Sucoflex 106PA        | RF N Type Cable 8.5m                        | 2/10/2016            |
| 51684      | Dynaware         | 5400-9810-6251        | SMA 50 Ohm Termination 18GHz                | 5/22/2015            |
| 51690      | Dynaware         | 5400-9810-6251        | SMA 50 Ohm Termination 18GHz                | 5/22/2015            |
| 51692      | Dynaware         | 5400-9810-6251        | SMA 50 Ohm Termination 18GHz                | 5/22/2015            |
| 51695      | Dynaware         | 5400-9810-6251        | SMA 50 Ohm Termination 18GHz                | 5/22/2015            |
| CIS-32307  | Micro-Tronics    | BRM50702-02           | 2.4-2.5G Notch Filter                       | 10/3/2015            |
| CIS-35606  | Micro-Tronics    | BRC50704-02           | 5.47-5.725G Notch Filter                    | 10/3/2015            |
| CIS-43988  | Micro-Tronics    | BRC50703-02           | 5.15-5.35G Notch Filter                     | 10/3/2015            |
| CIS-43989  | Micro-Tronics    | BRC50705-02           | 5.725-5.875G Notch Filter                   | 10/3/2015            |

**Appendix C: Abbreviation Key and Definitions**

The following table defines abbreviations used within this test report.

| Abbreviation | Description                                                          | Abbreviation | Description                        |
|--------------|----------------------------------------------------------------------|--------------|------------------------------------|
| EMC          | Electro Magnetic Compatibility                                       | °F           | Degrees Fahrenheit                 |
| EMI          | Electro Magnetic Interference                                        | °C           | Degrees Celsius                    |
| EUT          | Equipment Under Test                                                 | Temp         | Temperature                        |
| ITE          | Information Technology Equipment                                     | S/N          | Serial Number                      |
| TAP          | Test Assessment Schedule                                             | Qty          | Quantity                           |
| ESD          | Electro Static Discharge                                             | emf          | Electromotive force                |
| EFT          | Electric Fast Transient                                              | RMS          | Root mean square                   |
| EDCS         | Engineering Document Control System                                  | Qp           | Quasi Peak                         |
| Config       | Configuration                                                        | Av           | Average                            |
| CIS#         | Cisco Number (unique identification number for Cisco test equipment) | Pk           | Peak                               |
| Cal          | Calibration                                                          | kHz          | Kilohertz (1x10 <sup>3</sup> )     |
| EN           | European Norm                                                        | MHz          | MegaHertz (1x10 <sup>6</sup> )     |
| IEC          | International Electro technical Commission                           | GHz          | Gigahertz (1x10 <sup>9</sup> )     |
| CISPR        | International Special Committee on Radio Interference                | H            | Horizontal                         |
| CDN          | Coupling/Decoupling Network                                          | V            | Vertical                           |
| LISN         | Line Impedance Stabilization Network                                 | dB           | decibel                            |
| PE           | Protective Earth                                                     | V            | Volt                               |
| GND          | Ground                                                               | kV           | Kilovolt (1x10 <sup>3</sup> )      |
| L1           | Line 1                                                               | μV           | Microvolt (1x10 <sup>-6</sup> )    |
| L2           | Line2                                                                | A            | Amp                                |
| L3           | Line 3                                                               | μA           | Micro Amp (1x10 <sup>-6</sup> )    |
| DC           | Direct Current                                                       | mS           | Milli Second (1x10 <sup>-3</sup> ) |
| RAW          | Uncorrected measurement value, as indicated by the measuring device  | μS           | Micro Second (1x10 <sup>-6</sup> ) |
| RF           | Radio Frequency                                                      | μS           | Micro Second (1x10 <sup>-6</sup> ) |
| SLCE         | Signal Line Conducted Emissions                                      | m            | Meter                              |
| Meas dist    | Measurement distance                                                 | Spec dist    | Specification distance             |
| N/A or NA    | Not Applicable                                                       | SL           | Signal Line (or Telecom Line)      |
| P            | Power Line                                                           | L            | Live Line                          |
| N            | Neutral Line                                                         | R            | Return                             |
| S            | Supply                                                               | AC           | Alternating Current                |



**End**