



## Test Report

# AIR-AP1852 and 1832 Series

**FCC ID: LDK102095**

Also Covers:

AIR-AP1852y-UXK9  
AIR-AP1852y-B-K9  
AIR-AP1832I-UXK9  
AIR-AP1832I-B-K9

y =E (External Antenna) or I (Internal Antenna)

**5725-5850 MHz**

Against the following Specifications:

**CFR47 Part 15.407**

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

Author: Trinh Tien

Approved by:

A handwritten signature in blue ink that reads "Jim Nicholson".

Jim Nicholson  
Technical Leader, Engineering



This test report has been electronically authorized and archived using the CISCO Engineering Document Control system.

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## Section 1: Overview

### 1.1 Test Summary

**The samples were assessed against the tests under the requirements of the following specifications:**

Emission	Immunity
CFR47 Part 15.407	N/A

The specifications listed above represent actual tests performed to demonstrate compliance against the specifications and basic standards listed on the front cover of this report. This list is not a one to one match to the front cover for one or more of the following reasons.

1. Basic standards call up many different test phenomena specifications such as the 61000-4-X series. The basic standards define which elements and levels shall be applied from these specifications and as such it is not appropriate to list the individual specifications on the front cover.
2. A Standard listed on the front cover may be required in a particular country but is not appropriate for the particular technologies included in the equipment under test. E.g. You cannot test a DC product to the mains Harmonics requirements in EN61000-3-2.
3. Test results against a particular standard or specification may be included in a different test report. Where appropriate, Cisco may have substituted a later revision of a basic standard to those referenced in the specification on the front sheet of this test report. This decision was based upon improved test methodology and repeatability and/or where the newer revision represented a more stringent test.
4. Where relevant, testing has been carried out to the requirements of both EN and IEC Specifications. This was possible because of the similarities of the test methods involved and the Cisco EMC test procedures.
5. Testing may have been performed to an equivalent test that satisfies the requirements of the standards and specifications listed on the front cover of the report.
6. Where radiated emissions testing has been performed to EN55022/CISPR22 the additional requirements of VCCI: V- 3/2006.04, EN55022: 1994 +A1/2 and CAN/CSA- CISPR 22-02 have also been evaluated unless otherwise stated.
7. Testing to the requirements of CFR47 Part 15 was performed against the CISPR22 limits. The results are therefore deemed satisfactory evidence of compliance with Industry Canada Interference Causing Equipment Standard ICES-003.
8. Where assessment has been performed to CISPR24, all the applicable test requirements may have not been covered. Refer to the results section for the tests performed.

#### Notes:

- 1) Where a specification listed on the front cover of this report has deviations from the basic standards listed above, the additional technical requirements of the specification were also assessed.
- 2) Where appropriate, Cisco may have substituted a later revision of a basic standard to those referenced in the specification on the front sheet of this test report. This decision was based upon improved test methodology and repeatability and/or where the newer revision represented a more stringent test.
- 3) Where relevant, testing has been carried out to the requirements of both EN and IEC Specifications. This was possible because of the similarities of the test methods involved and the Cisco EMC test procedures.



## 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\*%

\*[Where applicable] For ESD testing the humidity limits used were 30% to 60% and for EFT/B tests the humidity limits used were 25% to 75%.

- e) All AC testing was performed at one or more of the following supply voltages:

110V 60 Hz (+/-20%)

220V 50 Hz (+/-20%)

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**2.2 Date of testing**

28-February-2015

**2.3 Report Issue Date**

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**2.4 Testing facilities**

This assessment was performed by:

**Testing Laboratory**

Cisco Systems, Inc.,	Cisco Systems, Inc.
4125 Highlander Parkway	170 West Tasman Drive
Richfield, OH 44286	San Jose, CA 95134
USA	USA

All conducted testing performed in Richfield, OH using “accredited calibration” test equipment

**Test Engineers**

John Liscio

**2.5 Equipment Assessed (EUT)**

AIR-AP1852 Series

## 2.6 EUT Description

The AIR-AP1852 Series Cisco Aironet 802.11ac Radio Modules 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. Data is recorded at the lowest supported data rate for each mode

6 to 54 Mbps, One Antenna,  
6 to 54 Mbps, Two Antennas,  
6 to 54 Mbps, Three Antennas,  
6 to 54 Mbps, Four Antennas,

6 to 54 Mbps Beam Forming, Two Antennas,  
6 to 54 Mbps Beam Forming, Three Antennas,  
6 to 54 Mbps Beam Forming, Four Antennas,

HT/VHT20, One Antenna, M0 to M7, M0.0 to M9.0  
HT/VHT20, Two Antennas, M0 to M7, M0.0 to M9.0  
HT/VHT20, Three Antennas, M0 to M7, M0.0 to M9.0  
HT/VHT20, Four Antennas, M0 to M7, M0.0 to M9.0  
HT/VHT20, Two Antennas, M8 to M15, M0.0 to M9.0  
HT/VHT20, Three Antennas, M8 to M15, M0.0 to M9.0  
HT/VHT20, Four Antennas, M8 to M15, M0.0 to M9.0  
HT/VHT20, Three Antennas, M16 to M23, M0.0 to M9.0  
HT/VHT20, Four Antennas, M16 to M23, M0.0 to M9.0

VHT20, Four Antennas, M0 to M9 4ss

HT/VHT20 Beam Forming, Two Antennas, M0 to M7, M0.0 to M9.0  
HT/VHT20 Beam Forming, Three Antennas, M0 to M7, M0.0 to M9.0  
HT/VHT20 Beam Forming, Four Antennas, M0 to M7, M0.0 to M9.0  
HT/VHT20 Beam Forming, Two Antennas, M8 to M15, M0.0 to M9.0  
HT/VHT20 Beam Forming, Three Antennas, M8 to M15, M0.0 to M9.0  
HT/VHT20 Beam Forming, Four Antennas, M8 to M15, M0.0 to M9.0  
HT/VHT20 Beam Forming, Three Antennas, M16 to M23, M0.0 to M9.0  
HT/VHT20 Beam Forming, Four Antennas, M16 to M23, M0.0 to M9.0

VHT20 Beam Forming, Four Antennas, M0 to M9 4ss

HT/VHT20 STBC, Two Antennas, M0 to M7  
HT/VHT20 STBC, Three Antennas, M0 to M7  
HT/VHT20 STBC, Four Antennas, M0 to M7

Non HT40 Duplicate, One Antenna, 6 to 54 Mbps  
Non HT40 Duplicate, Two Antennas, 6 to 54 Mbps  
Non HT40 Duplicate, Three Antennas, 6 to 54 Mbps  
Non HT40 Duplicate, Four Antennas, 6 to 54 Mbps

HT/VHT40, One Antenna, M0 to M7, M0.0 to M9.0  
HT/VHT40, Two Antennas, M0 to M7, M0.0 to M9.0  
HT/VHT40, Three Antennas, M0 to M7, M0.0 to M9.0  
HT/VHT40, Four Antennas, M0 to M7, M0.0 to M9.0  
HT/VHT40, Two Antennas, M8 to M15, M0.0 to M9.0  
HT/VHT40, Three Antennas, M8 to M15, M0.0 to M9.0  
HT/VHT40, Four Antennas, M8 to M15, M0.0 to M9.0  
HT/VHT40, Three Antennas, M16 to M23, M0.0 to M9.0  
HT/VHT40, Four Antennas, M16 to M23, M0.0 to M9.0

VHT40, Four Antennas, M0 to M9 4ss



HT/VHT40 Beam Forming, Two Antennas, M0 to M7, M0.0 to M9.0  
 HT/VHT40 Beam Forming, Three Antennas, M0 to M7, M0.0 to M9.0  
 HT/VHT40 Beam Forming, Four Antennas, M0 to M7, M0.0 to M9.0  
 HT/VHT40 Beam Forming, Two Antennas, M8 to M15, M0.0 to M9.0  
 HT/VHT40 Beam Forming, Three Antennas, M8 to M15, M0.0 to M9.0  
 HT/VHT40 Beam Forming, Four Antennas, M8 to M15, M0.0 to M9.0  
 HT/VHT40 Beam Forming, Three Antennas, M16 to M23, M0.0 to M9.0  
 HT/VHT40 Beam Forming, Four Antennas, M16 to M23, M0.0 to M9.0

VHT40 Beam Forming, Four Antennas, M0 to M9 4ss

HT/VHT40 STBC, Two Antennas, M0 to M7  
 HT/VHT40 STBC, Three Antennas, M0 to M7  
 HT/VHT40 STBC, Four Antennas, M0 to M7

Non HT80 Duplicate, One Antenna, 6 to 54 Mbps  
 Non HT80 Duplicate, Two Antennas, 6 to 54 Mbps  
 Non HT80 Duplicate, Three Antennas, 6 to 54 Mbps  
 Non HT80 Duplicate, Four Antennas, 6 to 54 Mbps

VHT80, One Antenna, M0 to M9 1ss  
 VHT80, Two Antennas, M0 to M9 1ss  
 VHT80, Three Antennas, M0 to M9 1ss  
 VHT80, Four Antennas, M0 to M9 1ss  
 VHT80, Two Antennas, M0 to M9 2ss  
 VHT80, Three Antennas, M0 to M9 2ss  
 VHT80, Four Antennas, M0 to M9 2ss  
 VHT80, Three Antennas, M0 to M9 3ss  
 VHT80, Four Antennas, M0 to M9 4ss

VHT80 Beam Forming, Two Antennas, M0 to M9 1ss  
 VHT80 Beam Forming, Three Antennas, M0 to M9 1ss  
 VHT80 Beam Forming, Four Antennas, M0 to M9 1ss  
 VHT80 Beam Forming, Two Antennas, M0 to M9 2ss  
 VHT80 Beam Forming, Three Antennas, M0 to M9 2ss  
 VHT80 Beam Forming, Four Antennas, M0 to M9 2ss  
 VHT80 Beam Forming, Three Antennas, M0 to M9 3ss  
 VHT80 Beam Forming, Four Antennas, M0 to M9 4ss

VHT80 STBC, Two Antennas, M0 to M9 2ss  
 VHT80 STBC, Three Antennas, M0 to M9 2ss  
 VHT80 STBC, Four Antennas, M0 to M9 2ss

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)
<b>2.4 / 5 GHz</b>	AIR-ANT2524DB-R	Dual-resonant black dipole	2 / 4
	AIR-ANT2524DW-R	Dual-resonant white dipole	2 / 4
	AIR-ANT2524DG-R	Dual-resonant gray dipole	2 / 4
	AIR-ANT2524V4C-R	Dual-resonant ceiling mount omni (4-pack)	2 / 4
	AIR-ANT2535SDW-R	Dual-resonante "stubby" monopole	3 / 5
	Internal	Omni	3 / 5
	AIR-ANT2544V4M-R	Dual-resonant omni (4-pack)	4 / 4
	AIR-ANT2566D4M-R	Dual-resonant "directional" antenna (4-pack)	6 / 6
	AIR-ANT2566P4W-R	Dual-resonant "directional" antenna (4-pack)	6 / 6



### **Section 3: 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. Please also refer to the "Justification for worst Case test Configuration" section of this report for further details on the selection of EUT samples.

#### **3.1 Sample Details (Photographs of the test samples, where appropriate can be found in appendix H)**

Sample No.	Equipment Details	Part Number	Manufacturer	Hardware Rev.	Firmware Rev.	Software Rev.	Serial Number
S01	AIR-AP1852 Series		Cisco Systems	NA	NA	NA	KWC1904 02M
S02	AIR-PWR-B	341-0306-02	Cisco Systems	NA	NA	NA	

#### **3.2 System Details**

System #	Description	Samples
1	EUT	S01, S02

#### **3.3 Mode of Operation Details**

Mode#	Description	Comments
1	Continuous Transmitting	Continuous Transmitting >= 98% duty cycle

All tests in this report were performed as described in ANSI C63.10, FCC KDB 662911 D01 and 789033 D02 General UNII Test Procedure New Rules v01

## Appendix A: Emission Test Results

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

### Target Maximum Channel Power

The following table details the maximum supported Total Channel Power for all operating modes.

Operating Mode	Maximum Channel Power (dBm)		
	Frequency (MHz)		
	5745	5785	5825
6 to 54 Mbps	16	21	21
6 to 54 Mbps Beam Forming	12	21	16
HT/VHT20, M0 to M23, M0 to M9 1-4ss	15	21	20
HT/VHT20 Beam Forming, M0 to M23, M0 to M9 1-4ss	15	21	20
HT/VHT20 STBC, M0 to M7	15	21	20
	5755	5795	
Non HT40 Duplicate, 6 to 54 Mbps	12	20	
HT/VHT40, M0 to M23, M0 to M9 1-4ss	14	21	
HT/VHT40 Beam Forming, M0 to M23, M0 to M9 1-4ss	14	21	
HT/VHT40 STBC, M0 to M7	14	21	
	5775		
Non HT80 Duplicate, 6 to 54 Mbps	16		
VHT80, M0 to M9, M0 to M9 1-1ss	13		
VHT80 Beam Forming, M0 to M9, M0 to M9 1-1ss	13		
VHT80 STBC, M0 to M9 2ss	13		



## 6dB Bandwidth

**15.407:** Within the 5.725-5.850 GHz band, the minimum 6dB bandwidth of U-NII devices shall be at least 500 kHz.

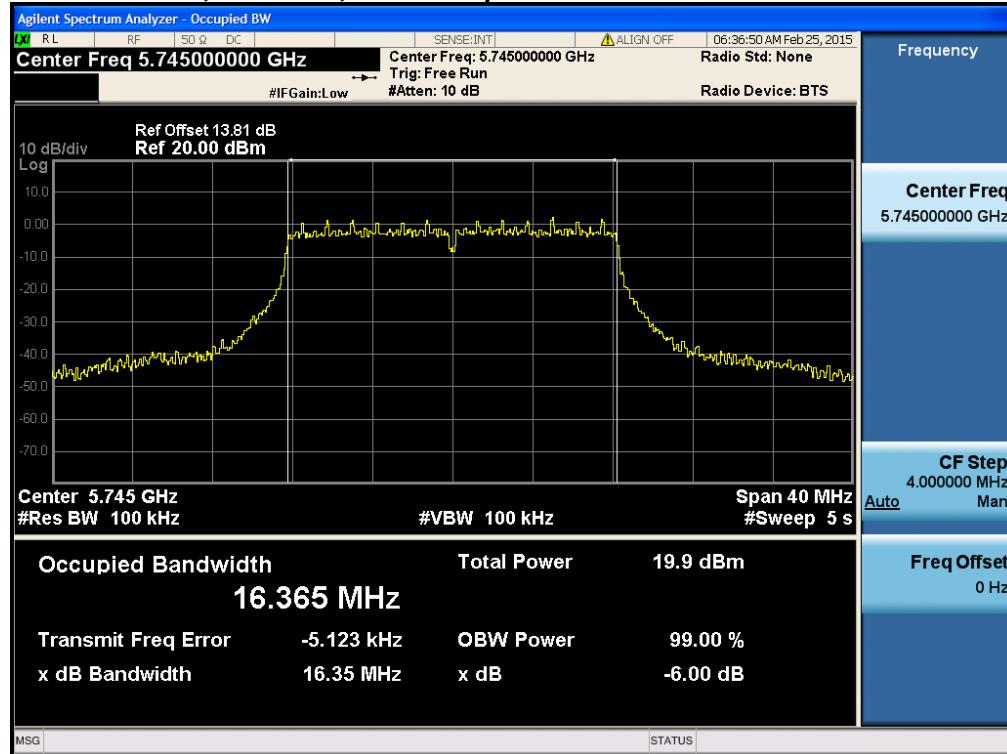
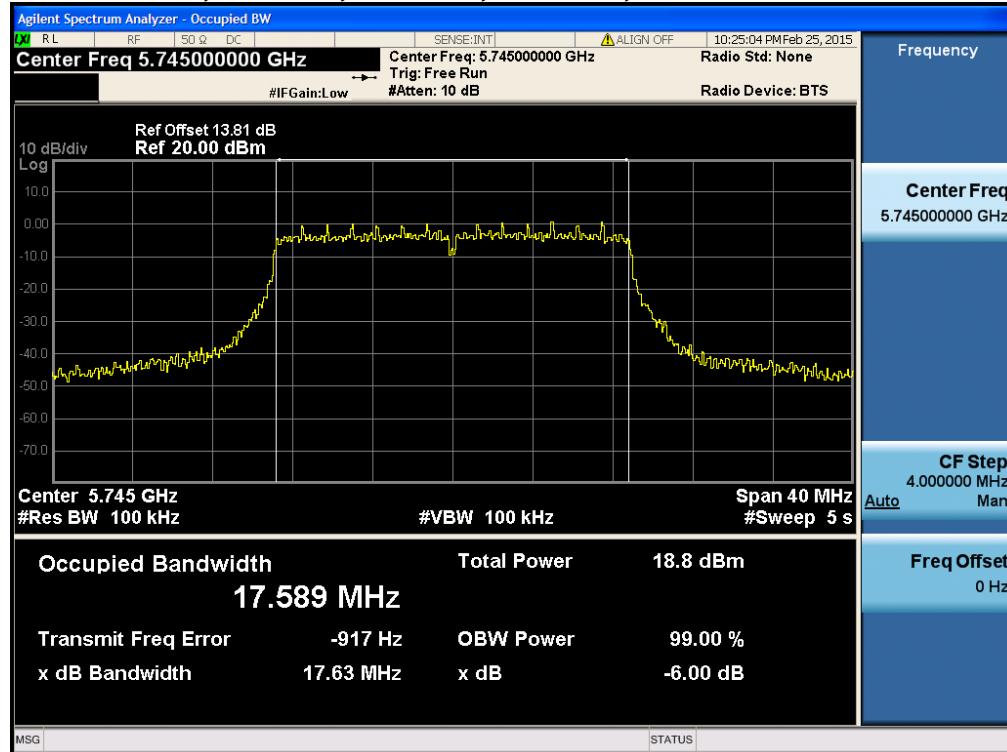
Connect the antenna port(s) to the spectrum analyzer input. Using the spectrum analyzer Channel Bandwidth mode, configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the spectrum analyzer).

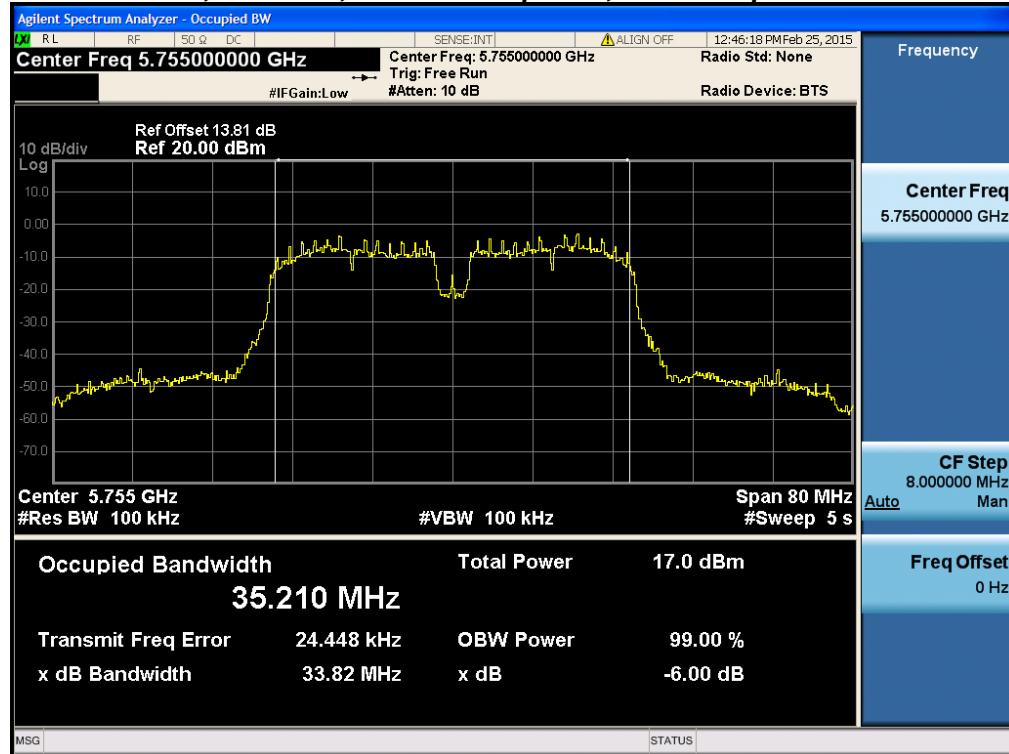
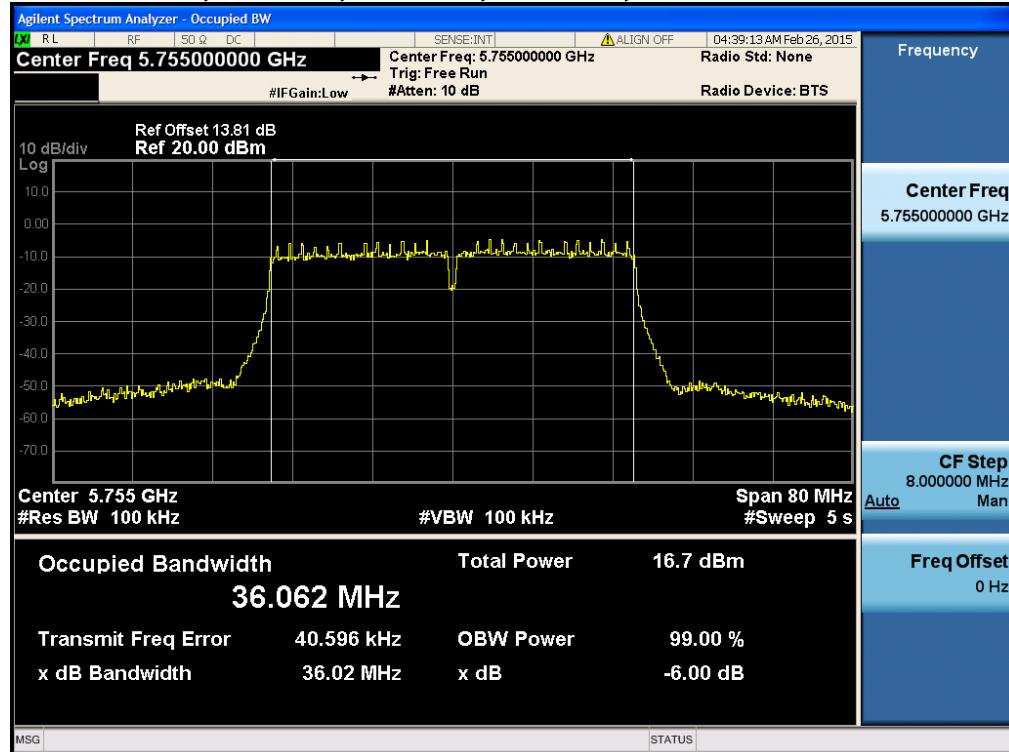
Center Frequency:	Frequency from table below
Span:	2 x Nominal Bandwidth (e.g. 40MHz for a 20MHz channel)
Reference Level:	20 dBm
Attenuation:	10 dB
Sweep Time:	5 s
Resolution Bandwidth:	100 kHz
Video Bandwidth:	100 kHz
X dB Bandwidth:	6 dB
Detector:	Peak
Trace:	Single

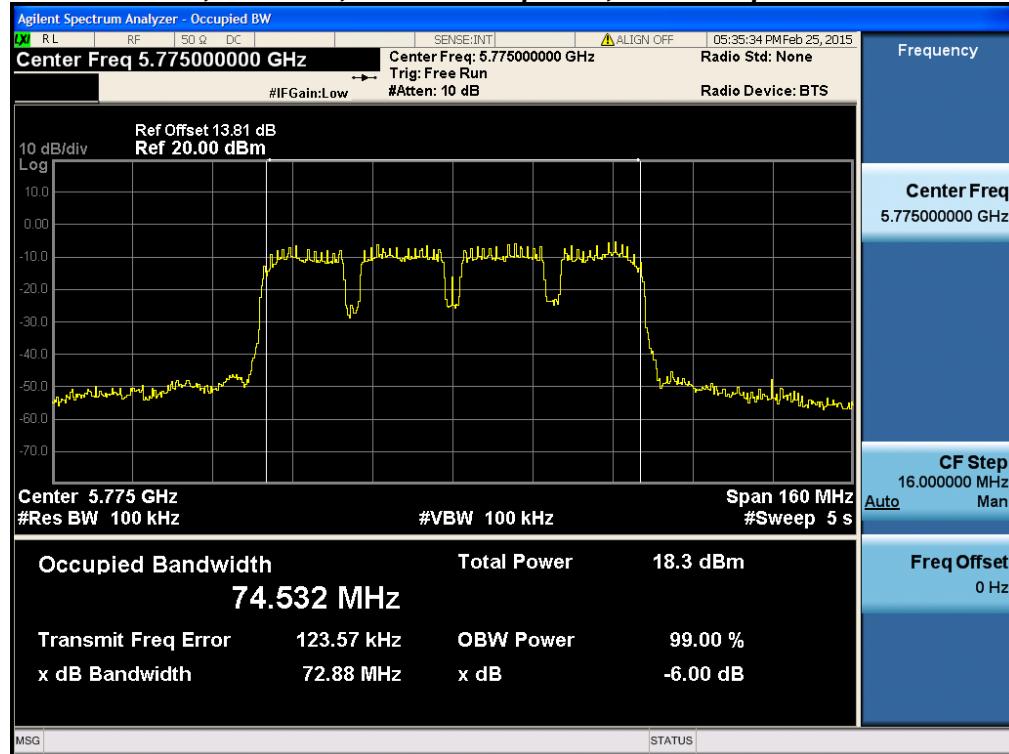
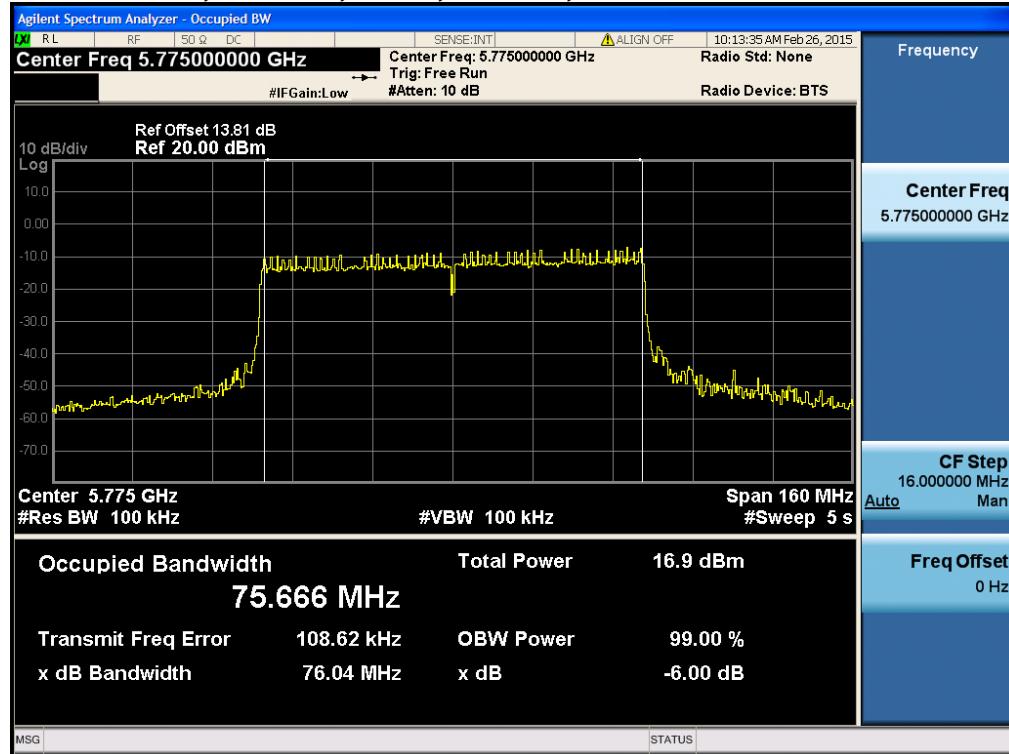
Place the radio in continuous transmit mode. View the transmitter waveform on the spectrum analyzer, and record the pertinent measurements:

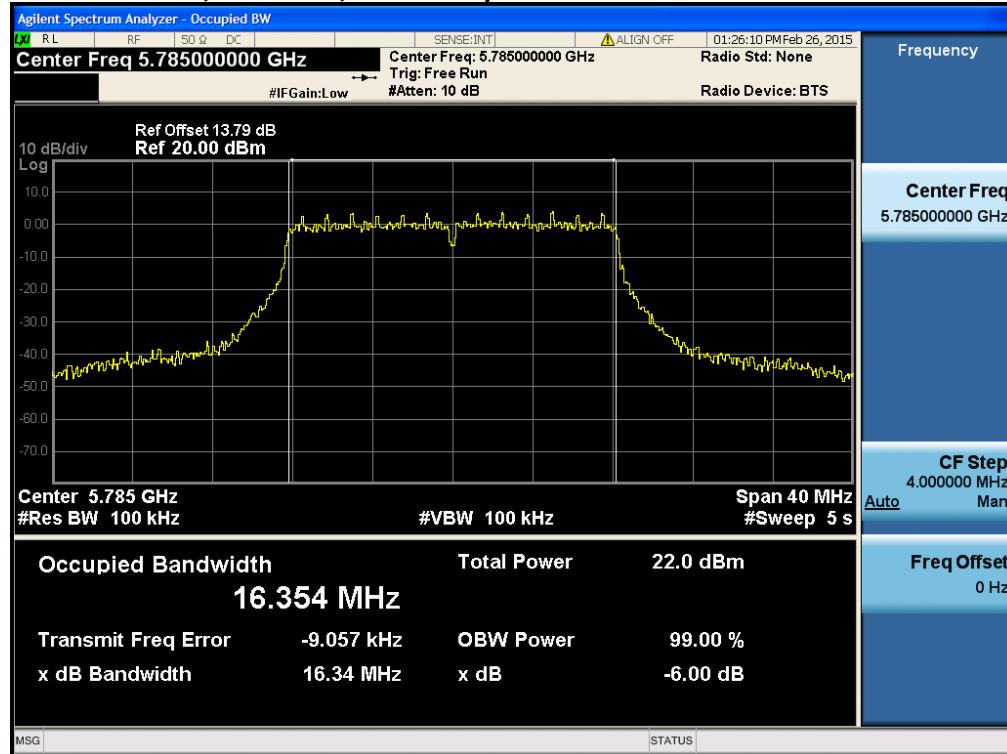
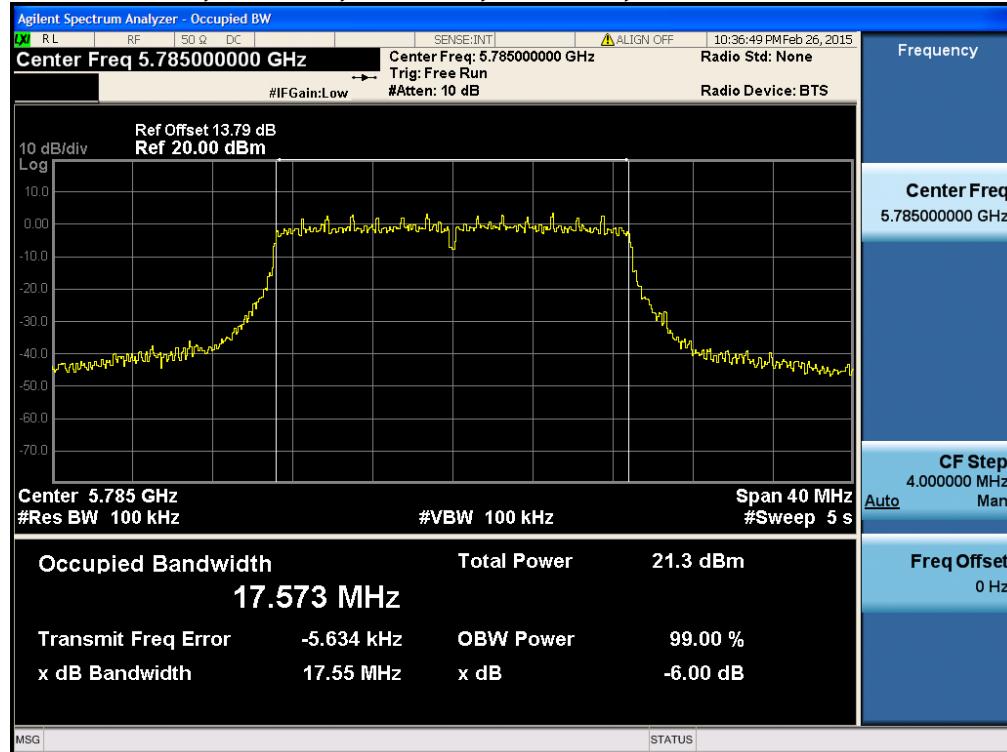


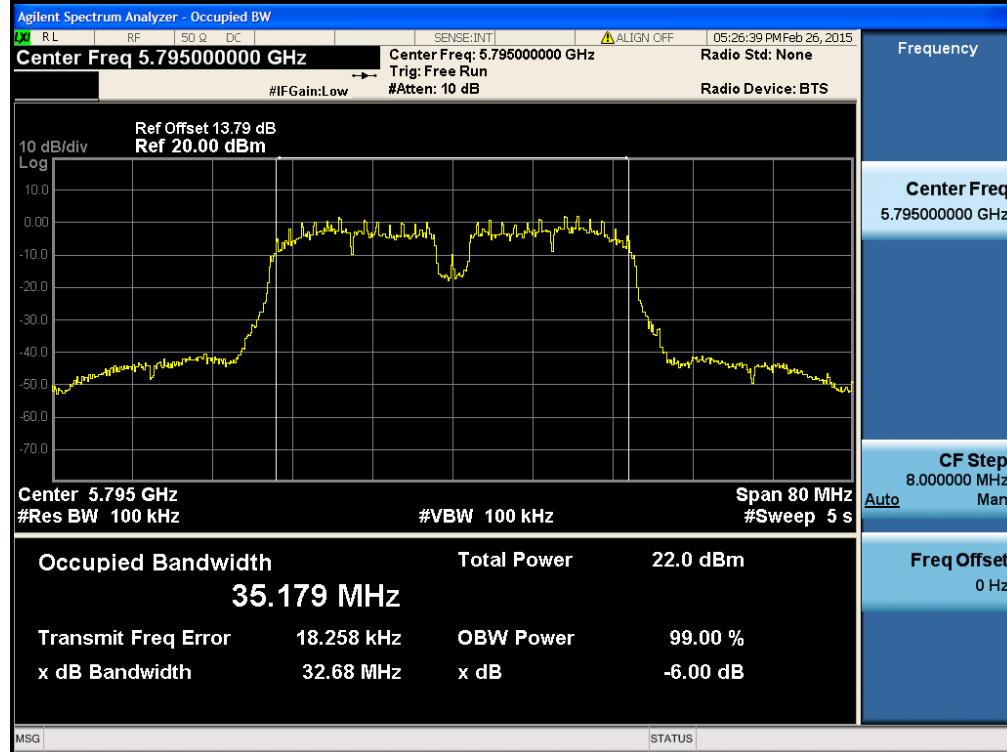
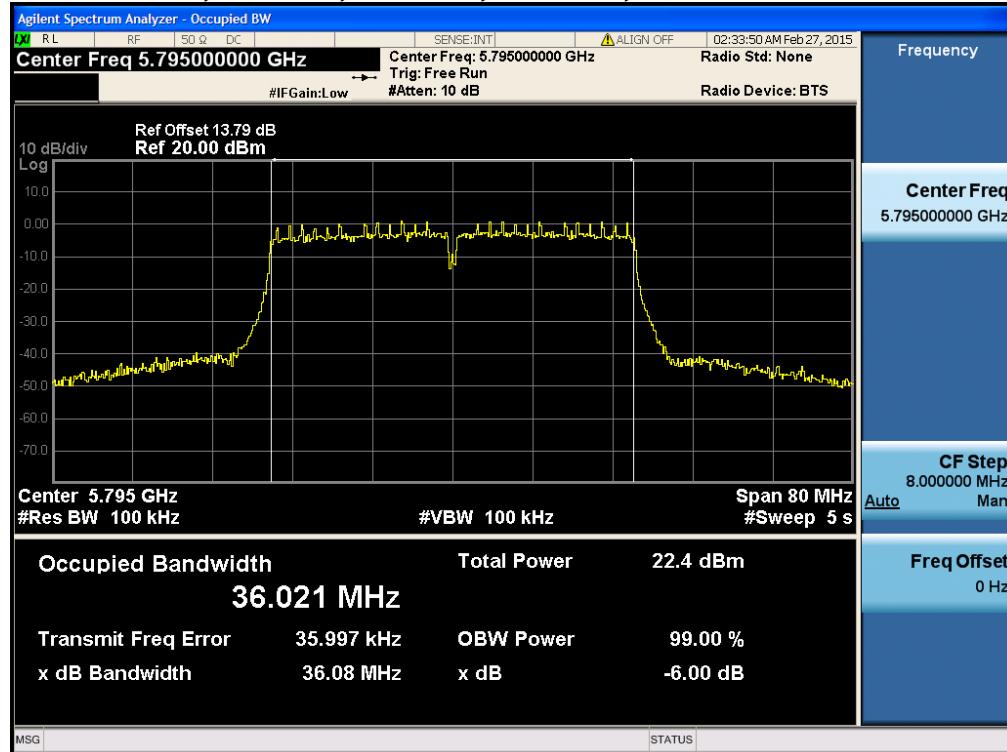
Frequency (MHz)	Mode	Data Rate (Mbps)	6dB BW (MHz)	Limit (kHz)	Margin (MHz)
5745	6 to 54 Mbps	6	16.3	>500	15.8
	HT/VHT20, M0 to M23, M0 to M9 1-4ss	m0	17.6	>500	17.1
5755	Non HT40 Duplicate, 6 to 54 Mbps	6	33.8	>500	33.3
	HT/VHT40, M0 to M23, M0 to M9 1-4ss	m0	36	>500	35.5
5775	Non HT80 Duplicate, 6 to 54 Mbps	6	72.9	>500	72.4
	VHT80, M0 to M9, M0 to M9 1-1ss	m0x1	76	>500	75.5
5785	6 to 54 Mbps	6	16.3	>500	15.8
	HT/VHT20, M0 to M23, M0 to M9 1-4ss	m0	17.5	>500	17.0
5795	Non HT40 Duplicate, 6 to 54 Mbps	6	32.7	>500	32.2
	HT/VHT40, M0 to M23, M0 to M9 1-4ss	m0	36.1	>500	35.6
5825	6 to 54 Mbps	6	16.3	>500	15.8
	HT/VHT20, M0 to M23, M0 to M9 1-4ss	m0	17.6	>500	17.1

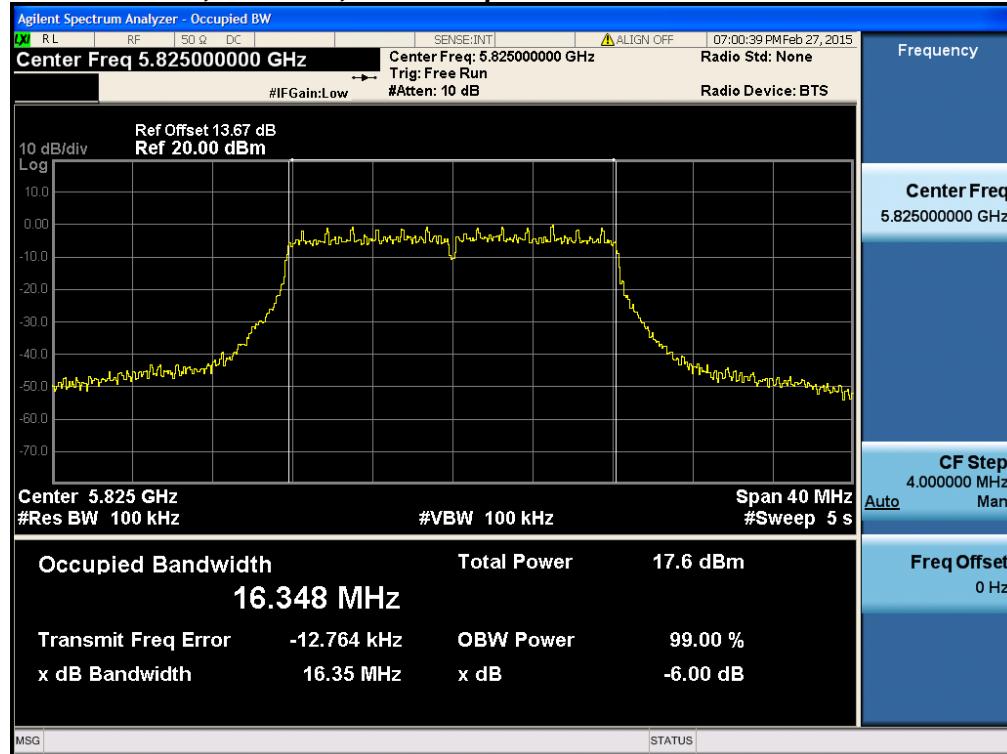
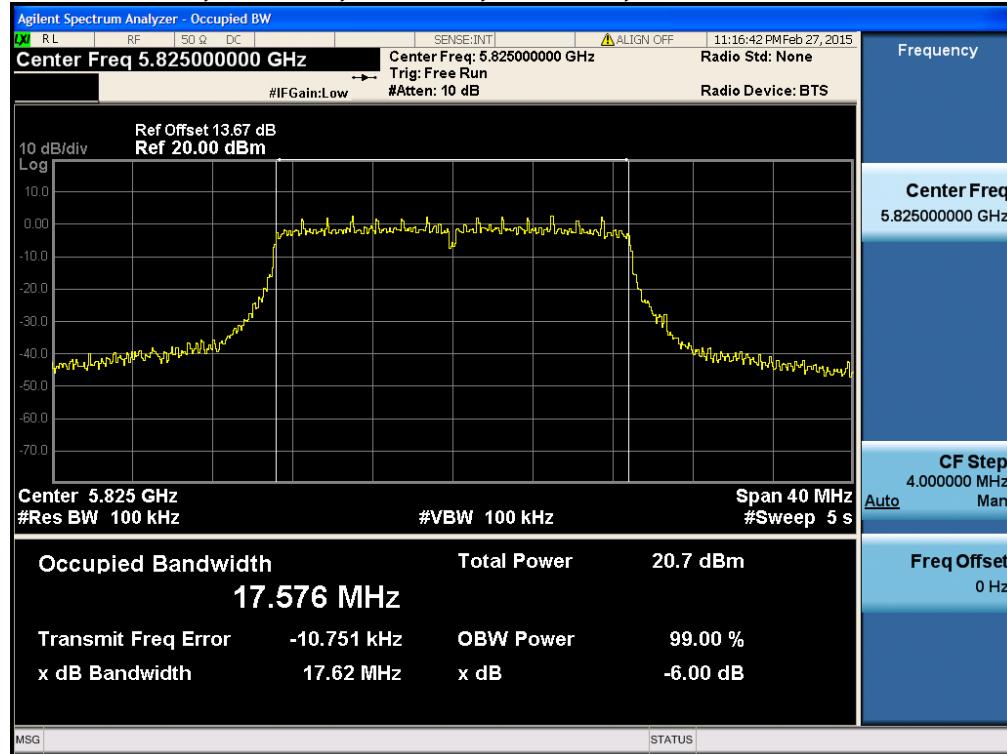
**6dB Bandwidth, 5745 MHz, 6 to 54 Mbps****6dB Bandwidth, 5745 MHz, HT/VHT20, M0 to M23, M0 to M9 1-4ss**

**6dB Bandwidth, 5755 MHz, Non HT40 Duplicate, 6 to 54 Mbps****6dB Bandwidth, 5755 MHz, HT/VHT40, M0 to M23, M0 to M9 1-4ss**

**6dB Bandwidth, 5775 MHz, Non HT80 Duplicate, 6 to 54 Mbps****6dB Bandwidth, 5775 MHz, VHT80, M0 to M9, M0 to M9 1-1ss**

**6dB Bandwidth, 5785 MHz, 6 to 54 Mbps****6dB Bandwidth, 5785 MHz, HT/VHT20, M0 to M23, M0 to M9 1-4ss**

**6dB Bandwidth, 5795 MHz, Non HT40 Duplicate, 6 to 54 Mbps****6dB Bandwidth, 5795 MHz, HT/VHT40, M0 to M23, M0 to M9 1-4ss**

**6dB Bandwidth, 5825 MHz, 6 to 54 Mbps****6dB Bandwidth, 5825 MHz, HT/VHT20, M0 to M23, M0 to M9 1-4ss**



## 99% and 26dB Bandwidth

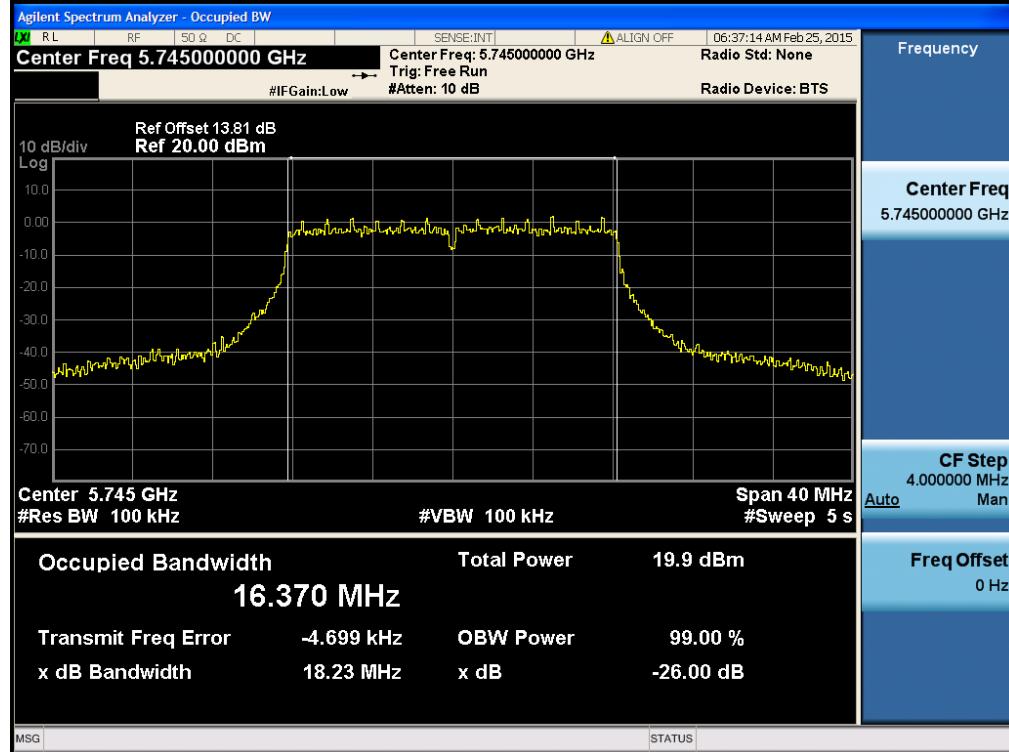
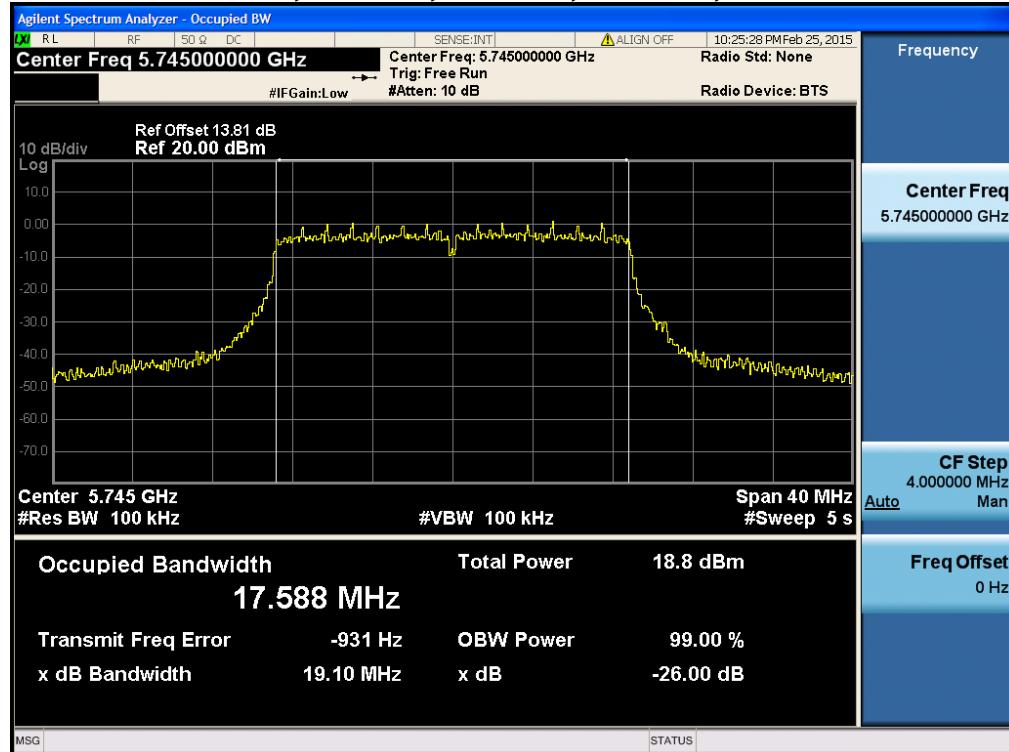
Connect the antenna port(s) to the spectrum analyzer input. Using the spectrum analyzer Channel Bandwidth mode, configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the spectrum analyzer).

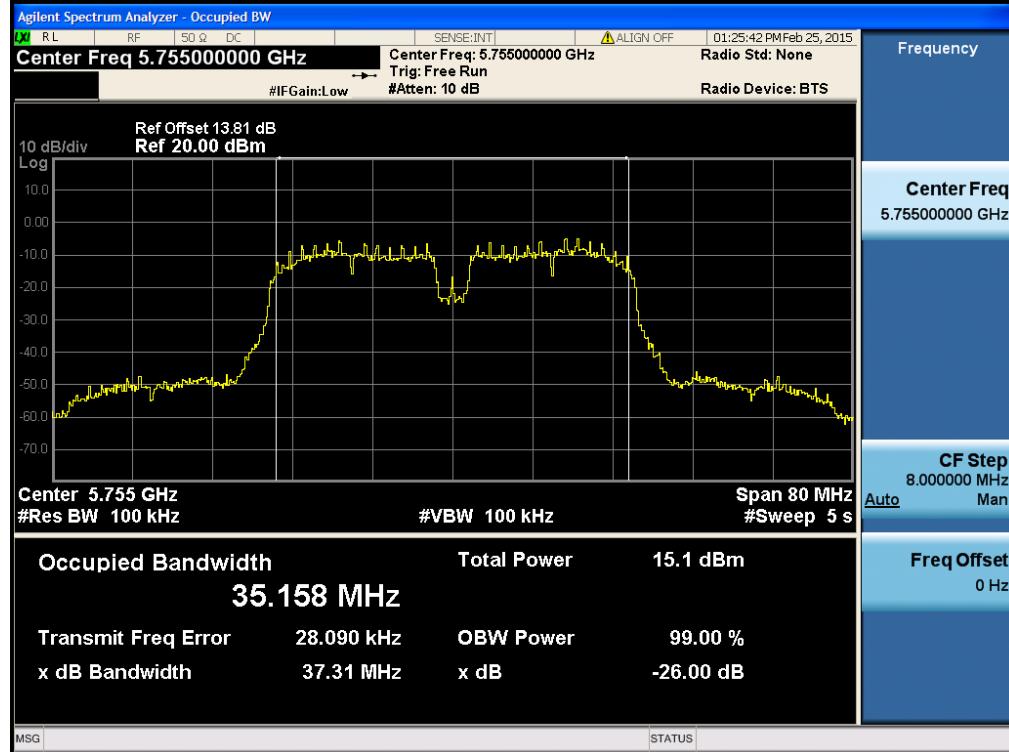
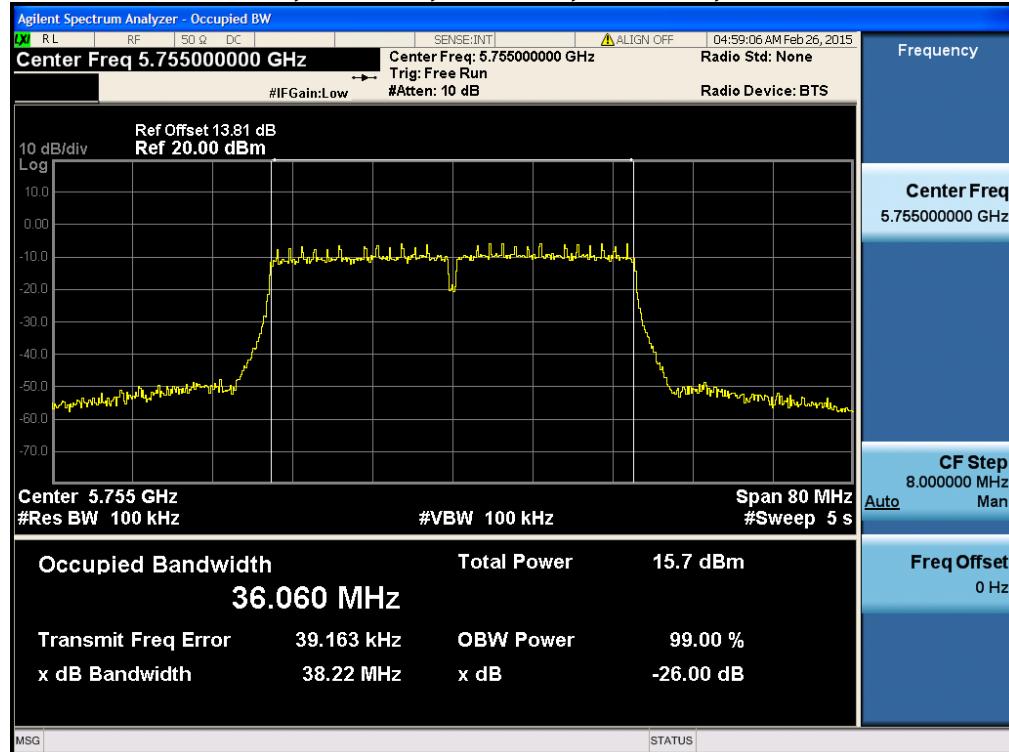
Center Frequency:	Frequency from table below
Span:	2 x Nominal Bandwidth (e.g. 40MHz for a 20MHz channel)
Reference Level:	20 dBm
Attenuation:	10 dB
Sweep Time:	5 s
Resolution Bandwidth:	1%-3% of 26 dB Bandwidth
Video Bandwidth:	$\geq$ Resolution Bandwidth
X dB Bandwidth:	26 dB
Detector:	Peak
Trace:	Single

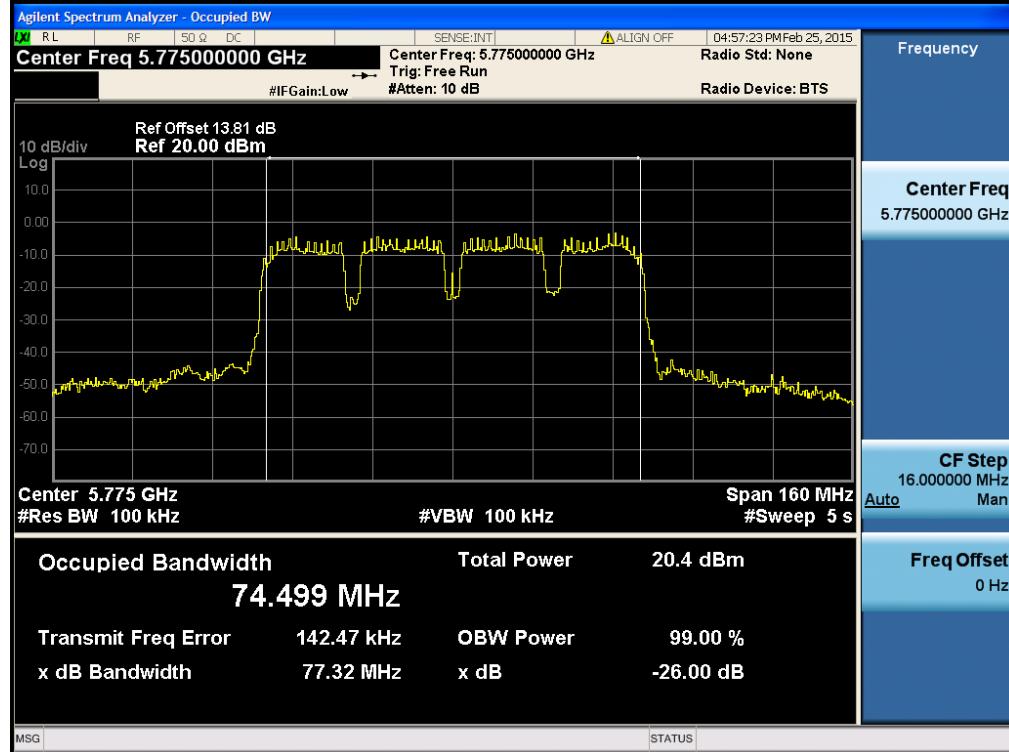
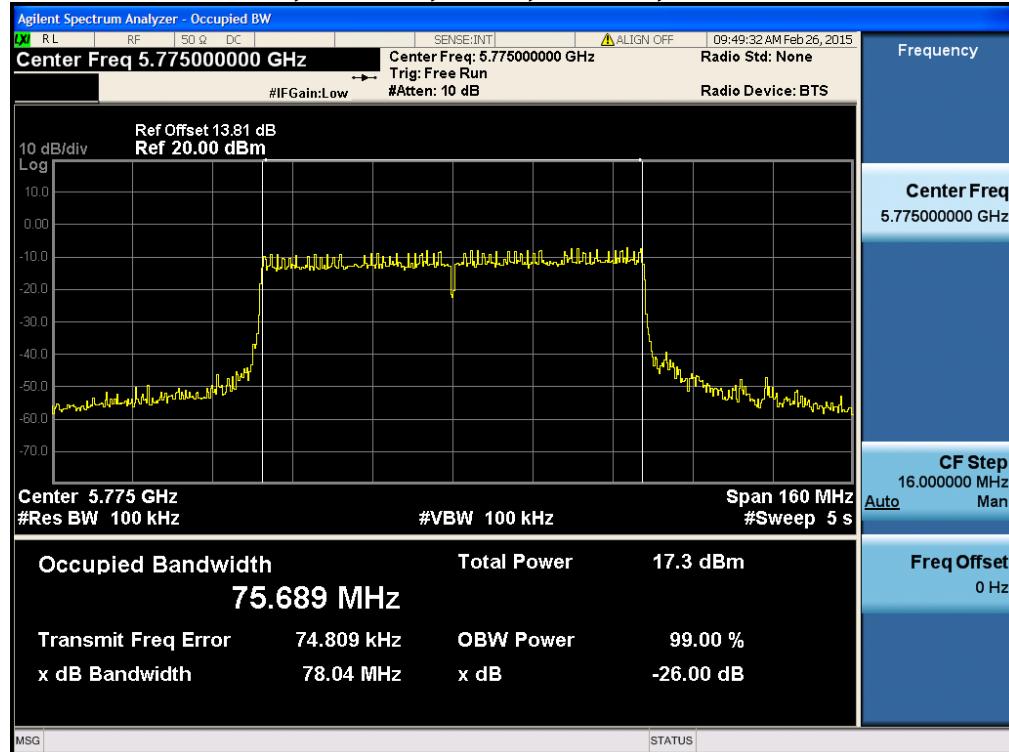
Place the radio in continuous transmit mode. View the transmitter waveform on the spectrum analyzer, and record the pertinent measurements:

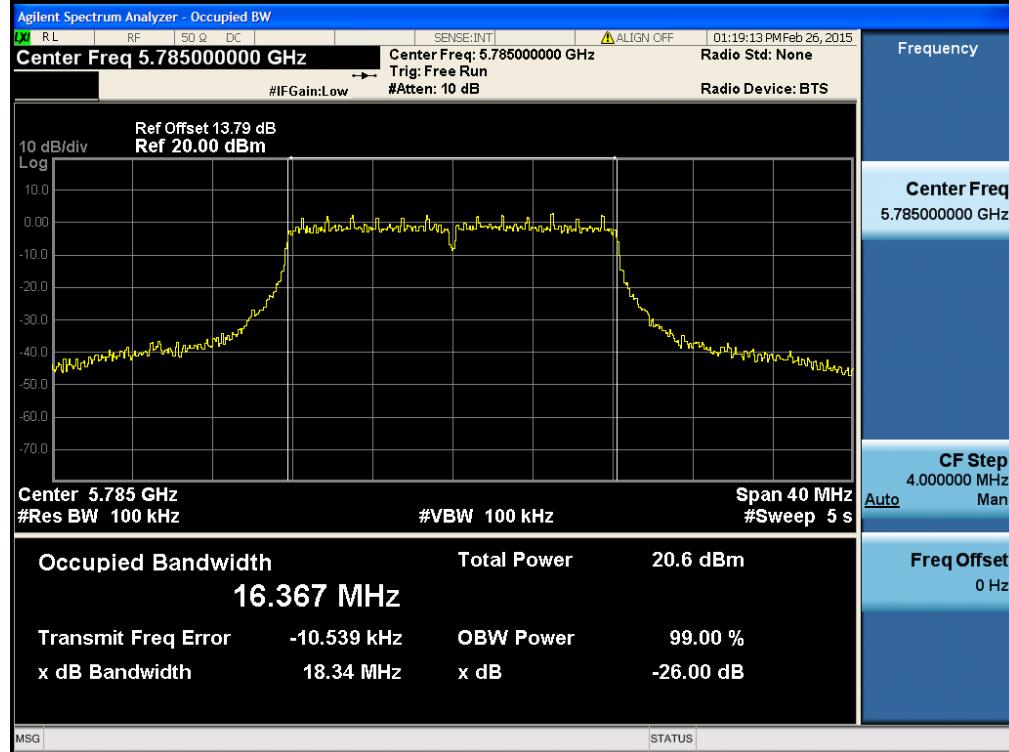
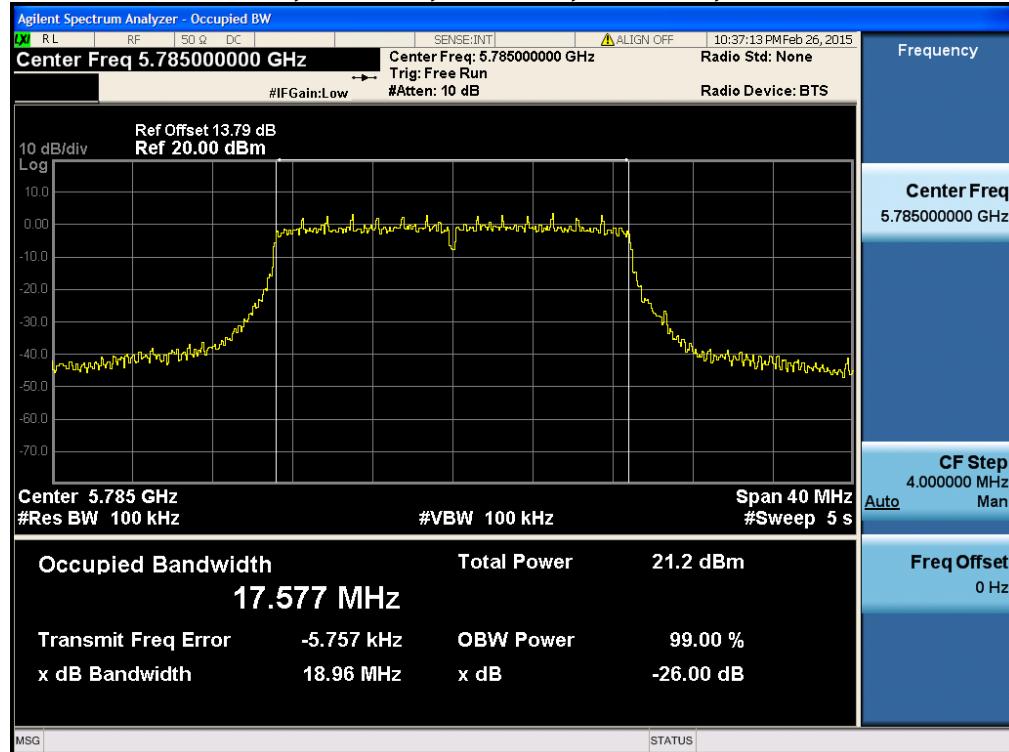


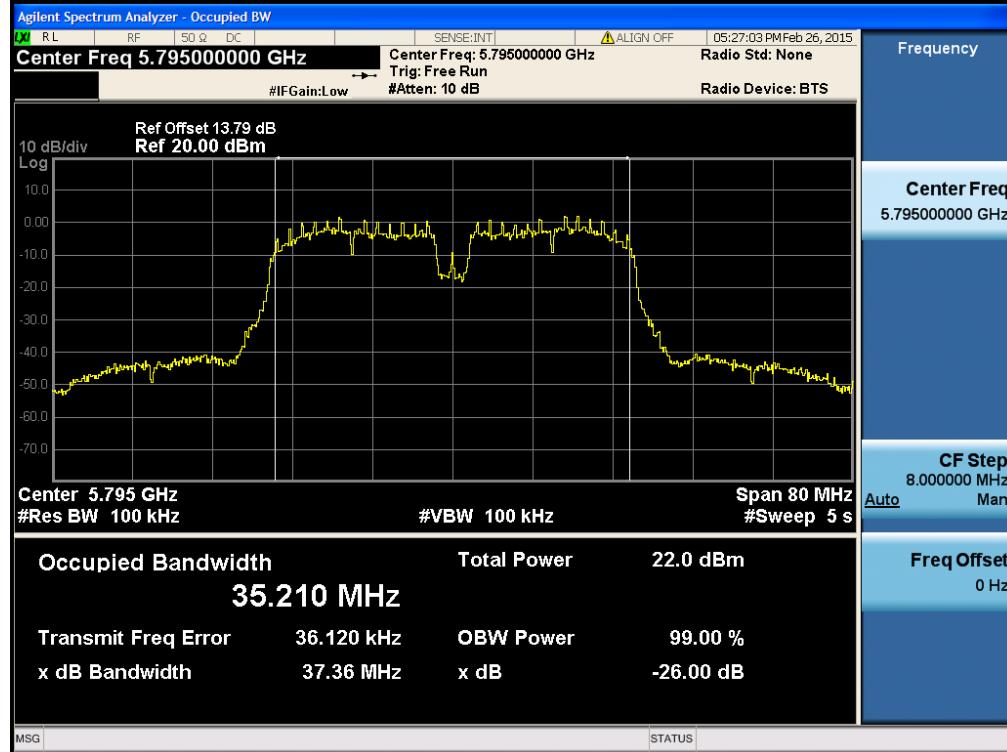
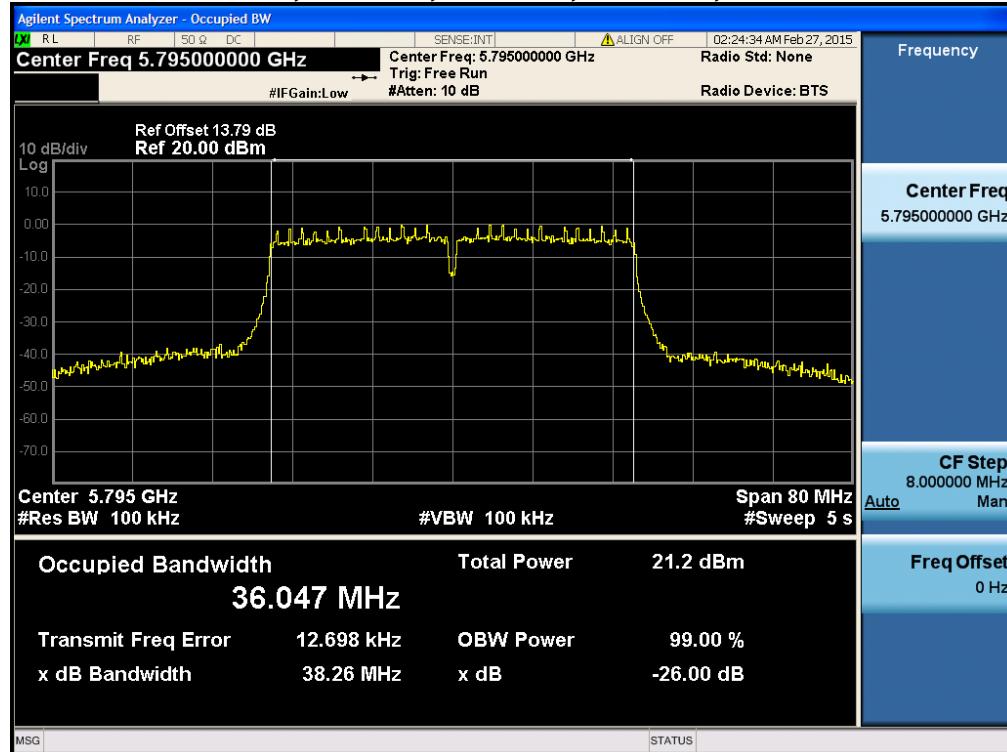
Frequency (MHz)	Mode	Data Rate (Mbps)	26dB BW (MHz)	99% BW (MHz)
5745	6 to 54 Mbps	6	18.2	16.4
	HT/VHT20, M0 to M23, M0 to M9 1-4ss	m0	19.1	17.6
5755	Non HT40 Duplicate, 6 to 54 Mbps	6	37.3	35.2
	HT/VHT40, M0 to M23, M0 to M9 1-4ss	m0	38.2	36.1
5775	Non HT80 Duplicate, 6 to 54 Mbps	6	77.3	74.5
	VHT80, M0 to M9, M0 to M9 1-1ss	m0x1	78	75.7
5785	6 to 54 Mbps	6	18.2	16.4
	HT/VHT20, M0 to M23, M0 to M9 1-4ss	m0	19	17.6
5795	Non HT40 Duplicate, 6 to 54 Mbps	6	37.4	35.2
	HT/VHT40, M0 to M23, M0 to M9 1-4ss	m0	38.2	36.1
5825	6 to 54 Mbps	6	18.2	16.4
	HT/VHT20, M0 to M23, M0 to M9 1-4ss	m0	19.1	17.6

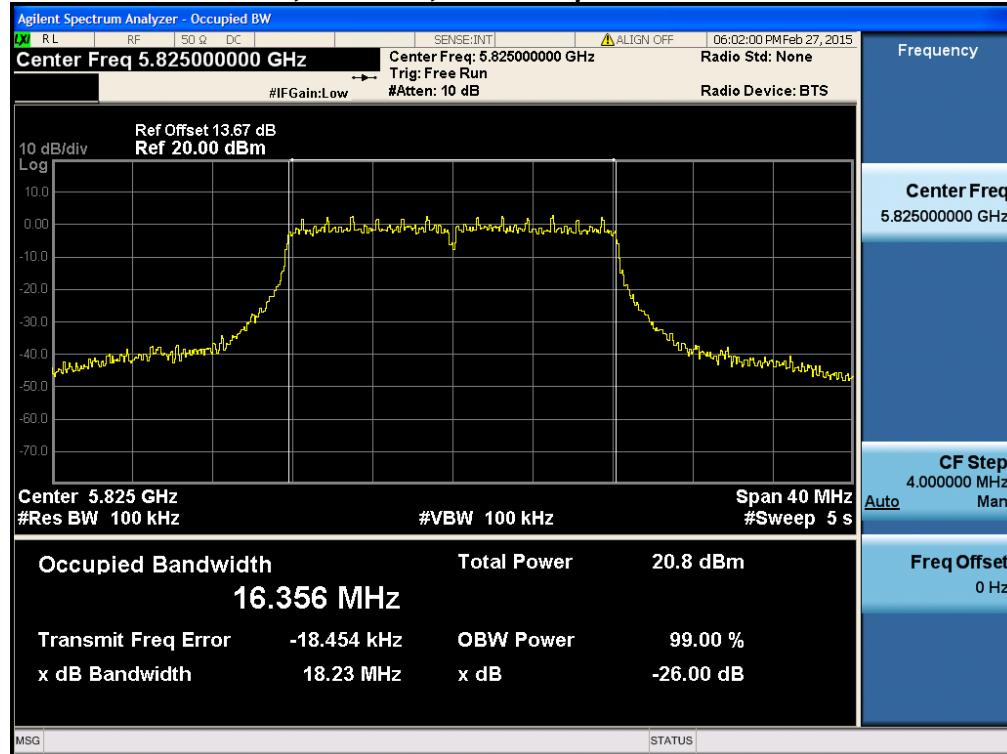
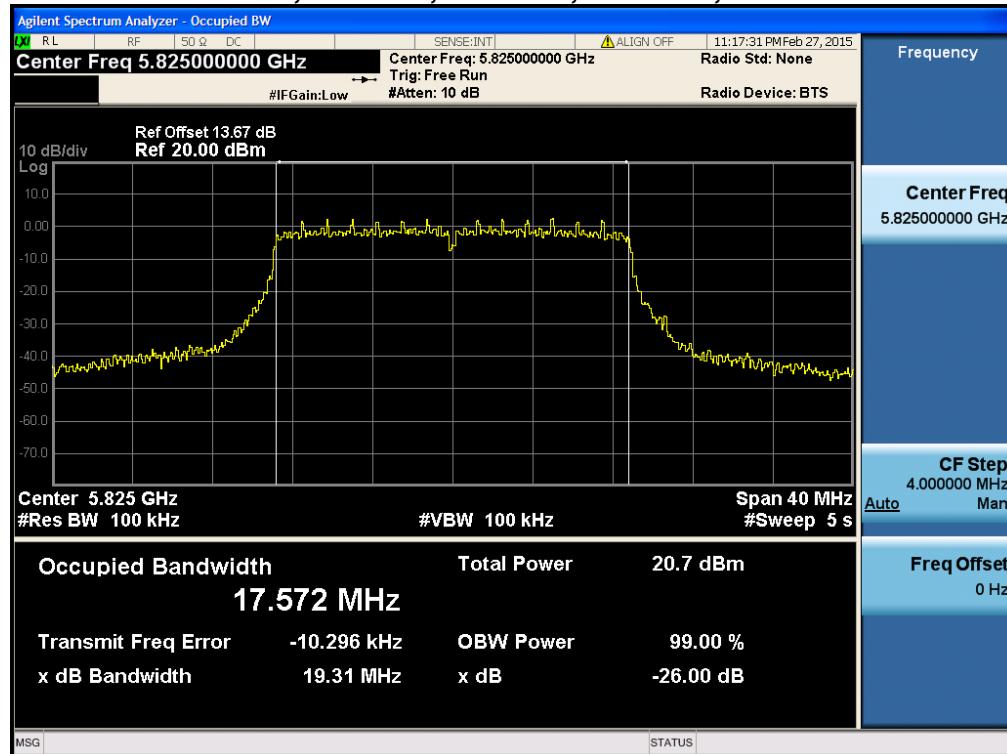
**26dB / 99% Bandwidth, 5745 MHz, 6 to 54 Mbps****26dB / 99% Bandwidth, 5745 MHz, HT/VHT20, M0 to M23, M0 to M9 1-4ss**

**26dB / 99% Bandwidth, 5755 MHz, Non HT40 Duplicate, 6 to 54 Mbps****26dB / 99% Bandwidth, 5755 MHz, HT/VHT40, M0 to M23, M0 to M9 1-4ss**

**26dB / 99% Bandwidth, 5775 MHz, Non HT80 Duplicate, 6 to 54 Mbps****26dB / 99% Bandwidth, 5775 MHz, VHT80, M0 to M9, M0 to M9 1-1ss**

**26dB / 99% Bandwidth, 5785 MHz, 6 to 54 Mbps****26dB / 99% Bandwidth, 5785 MHz, HT/VHT20, M0 to M23, M0 to M9 1-4ss**

**26dB / 99% Bandwidth, 5795 MHz, Non HT40 Duplicate, 6 to 54 Mbps****26dB / 99% Bandwidth, 5795 MHz, HT/VHT40, M0 to M23, M0 to M9 1-4ss**

**26dB / 99% Bandwidth, 5825 MHz, 6 to 54 Mbps****26dB / 99% Bandwidth, 5825 MHz, HT/VHT20, M0 to M23, M0 to M9 1-4ss**



## Peak Output Power/ Power Spectral Density

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

The maximum supported antenna gain for all bands is 6dBi. The peak correlated gain for each mode is listed in the table below.

Connect the antenna port(s) to the spectrum analyzer input. Place the radio in continuous transmit mode. Configure the spectrum analyzer as shown below.

Enable "Channel Power" function of analyzer

Center Frequency:	Frequency from table below
Span:	20 MHz (must be greater than 26dB bandwidth, adjust as necessary)
Ref Level Offset:	Correct for attenuator and cable loss.
Reference Level:	20 dBm
Attenuation:	20 dB
Sweep Time:	100ms, Single sweep
Resolution Bandwidth:	1 MHz
Video Bandwidth:	3 MHz
Detector:	Sample
Trace:	Trace Average 100 traces in Power Averaging Mode
Integration BW:	=99% BW from 99% Bandwidth Data

After averaging 100 traces of the transmitter waveform on the spectrum analyzer, record the spectrum analyzer Channel Power. Perform a Marker Peak Search function, and record this value as the Power Spectral Density.

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.

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	6 to 54 Mbps	1	6	13.3				13.3	30.0	16.7
	6 to 54 Mbps	2	6	12.2	12.5			15.4	30.0	14.6
	6 to 54 Mbps	3	6	10.3	10.6	10.9		15.4	30.0	14.6
	6 to 54 Mbps	4	6	9.4	9.5	9.9	9.7	15.6	30.0	14.4
	6 to 54 Mbps Beam Forming	2	9	9.4	9.5			12.5	27.0	14.5
	6 to 54 Mbps Beam Forming	3	11	7.3	7.4	7.8		12.3	25.2	12.9
	6 to 54 Mbps Beam Forming	4	12	3.4	3.5	3.9	3.8	9.7	24.0	14.3
	HT/VHT20, M0 to M7, M0 to M9 1ss	1	6	12.3				12.3	30.0	17.7
	HT/VHT20, M0 to M7, M0 to M9 1ss	2	6	10.4	10.6			13.5	30.0	16.5
	HT/VHT20, M0 to M7, M0 to M9 1ss	3	6	9.5	9.5	10.0		14.4	30.0	15.6
	HT/VHT20, M0 to M7, M0 to M9 1ss	4	6	8.4	8.6	9.0	8.7	14.7	30.0	15.3
	HT/VHT20, M8 to M15, M0 to M9 2ss	2	6	10.4	10.6			13.5	30.0	16.5
	HT/VHT20, M8 to M15, M0 to M9 2ss	3	6	9.5	9.5	10.0		14.4	30.0	15.6
	HT/VHT20, M8 to M15, M0 to M9 2ss	4	6	8.4	8.6	9.0	8.7	14.7	30.0	15.3
	HT/VHT20, M16 to M23, M0 to M9 3ss	3	6	9.5	9.5	10.0		14.4	30.0	15.6
	HT/VHT20, M16 to M23, M0 to M9 3ss	4	6	8.4	8.6	9.0	8.7	14.7	30.0	15.3
	VHT20, M0 to M9 4ss	4	6	8.4	8.6	9.0	8.7	14.7	30.0	15.3
	HT/VHT20 Beam Forming, M0 to M7, M0 to M9 1ss	2	9	8.4	8.6			11.5	27.0	15.5
	HT/VHT20 Beam Forming, M0 to M7, M0 to M9 1ss	3	11	6.3	6.4	7.1		11.4	25.2	13.8
	HT/VHT20 Beam Forming, M0 to M7, M0 to M9 1ss	4	12	3.5	3.6	4.1	3.9	9.8	24.0	14.2
	HT/VHT20 Beam Forming, M8 to M15, M0 to M9 2ss	2	6	10.4	10.6			13.5	30.0	16.5
	HT/VHT20 Beam Forming, M8 to M15, M0 to M9 2ss	3	8	8.4	8.6	9.0		13.4	28.2	14.8
	HT/VHT20 Beam Forming, M8 to M15, M0 to M9 2ss	4	9	6.3	6.4	7.1	6.7	12.7	27.0	14.3
	HT/VHT20 Beam Forming, M16 to M23, M0 to M9 3ss	3	6	9.5	9.5	10.0		14.4	30.0	15.6
	HT/VHT20 Beam Forming, M16 to M23, M0 to M9 3ss	4	7	7.3	7.4	7.9	7.7	13.6	28.8	15.2
	VHT20 Beam Forming, M0 to M9 4ss	4	6	8.4	8.6	9.0	8.7	14.7	30.0	15.3
	HT/VHT20 STBC, M0 to M7	2	6	10.4	10.6			13.5	30.0	16.5
	HT/VHT20 STBC, M0 to M7	3	6	9.5	9.5	10.0		14.4	30.0	15.6
	HT/VHT20 STBC, M0 to M7	4	6	8.4	8.6	9.0	8.7	14.7	30.0	15.3

5755	Non HT40 Duplicate, 6 to 54 Mbps	1	6	9.8				9.8	30.0	20.2
	Non HT40 Duplicate, 6 to 54 Mbps	2	6	7.9	8.1			11.0	30.0	19.0
	Non HT40 Duplicate, 6 to 54 Mbps	3	6	6.8	7.1	7.4		11.9	30.0	18.1
	Non HT40 Duplicate, 6 to 54 Mbps	4	6	5.7	6.0	6.6	6.2	12.2	30.0	17.8
	HT/VHT40, M0 to M7, M0 to M9 1ss	1	6	11.3				11.3	30.0	18.7
	HT/VHT40, M0 to M7, M0 to M9 1ss	2	6	9.4	9.7			12.6	30.0	17.4
	HT/VHT40, M0 to M7, M0 to M9 1ss	3	6	8.4	8.6	9.0		13.4	30.0	16.6
	HT/VHT40, M0 to M7, M0 to M9 1ss	4	6	7.4	7.6	7.9	7.8	13.7	30.0	16.3
	HT/VHT40, M8 to M15, M0 to M9 2ss	2	6	9.4	9.7			12.6	30.0	17.4
	HT/VHT40, M8 to M15, M0 to M9 2ss	3	6	8.4	8.6	9.0		13.4	30.0	16.6
	HT/VHT40, M8 to M15, M0 to M9 2ss	4	6	7.4	7.6	7.9	7.8	13.7	30.0	16.3
	HT/VHT40, M16 to M23, M0 to M9 3ss	3	6	8.4	8.6	9.0		13.4	30.0	16.6
	HT/VHT40, M16 to M23, M0 to M9 3ss	4	6	7.4	7.6	7.9	7.8	13.7	30.0	16.3
	VHT40, M0 to M9 4ss	4	6	7.4	7.6	7.9	7.8	13.7	30.0	16.3
	HT/VHT40 Beam Forming, M0 to M7, M0 to M9 1ss	2	9	7.4	7.6			10.5	27.0	16.5
	HT/VHT40 Beam Forming, M0 to M7, M0 to M9 1ss	3	11	4.5	4.8	5.0		9.5	25.2	15.7
	HT/VHT40 Beam Forming, M0 to M7, M0 to M9 1ss	4	12	3.4	3.8	4.0	4.0	9.8	24.0	14.2
	HT/VHT40 Beam Forming, M8 to M15, M0 to M9 2ss	2	6	9.4	9.7			12.6	30.0	17.4
	HT/VHT40 Beam Forming, M8 to M15, M0 to M9 2ss	3	8	6.3	6.6	7.1		11.5	28.2	16.7
	HT/VHT40 Beam Forming, M8 to M15, M0 to M9 2ss	4	9	5.3	5.8	6.1	5.6	11.7	27.0	15.3
	HT/VHT40 Beam Forming, M16 to M23, M0 to M9 3ss	3	6	8.4	8.6	9.0		13.4	30.0	16.6
	HT/VHT40 Beam Forming, M16 to M23, M0 to M9 3ss	4	7	6.3	6.6	7.1	6.8	12.7	28.8	16.1
	VHT40 Beam Forming, M0 to M9 4ss	4	6	7.4	7.6	7.9	7.8	13.7	30.0	16.3
	HT/VHT40 STBC, M0 to M7	2	6	9.4	9.7			12.6	30.0	17.4
	HT/VHT40 STBC, M0 to M7	3	6	8.4	8.6	9.0		13.4	30.0	16.6
	HT/VHT40 STBC, M0 to M7	4	6	7.4	7.6	7.9	7.8	13.7	30.0	16.3
5775	Non HT80 Duplicate, 6 to 54 Mbps	1	6	12.7				12.7	30.0	17.3
	Non HT80 Duplicate, 6 to 54 Mbps	2	6	11.7	12.2			15.0	30.0	15.0
	Non HT80 Duplicate, 6 to 54 Mbps	3	6	10.7	11.2	11.9		16.1	30.0	13.9
	Non HT80 Duplicate, 6 to 54 Mbps	4	6	9.8	10.3	10.8	10.4	16.4	30.0	13.6
	VHT80, M0 to M9 1ss	1	6	12.0				12.0	30.0	18.0
	VHT80, M0 to M9 1ss	2	6	9.2	9.6			12.4	30.0	17.6
	VHT80, M0 to M9 1ss	3	6	8.1	8.6	9.1		13.4	30.0	16.6
	VHT80, M0 to M9 1ss	4	6	6.1	6.4	7.2	6.7	12.6	30.0	17.4
	VHT80, M0 to M9 2ss	2	6	9.2	9.6			12.4	30.0	17.6
	VHT80, M0 to M9 2ss	3	6	8.1	8.6	9.1		13.4	30.0	16.6
	VHT80, M0 to M9 2ss	4	6	6.1	6.4	7.2	6.7	12.6	30.0	17.4
	VHT80, M0 to M9 3ss	3	6	8.1	8.6	9.1		13.4	30.0	16.6
	VHT80, M0 to M9 3ss	4	6	6.1	6.4	7.2	6.7	12.6	30.0	17.4
	VHT80, M0 to M9 4ss	4	6	6.1	6.4	7.2	6.7	12.6	30.0	17.4

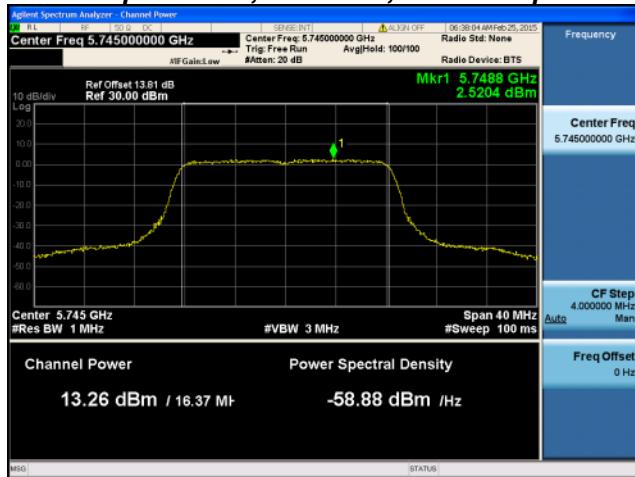
	VHT80 Beam Forming, M0 to M9 1ss	2	9	8.1	8.6			11.4	27.0	15.6
	VHT80 Beam Forming, M0 to M9 1ss	3	11	4.2	4.6	5.2		9.5	25.2	15.7
	VHT80 Beam Forming, M0 to M9 1ss	4	12	0.0	0.4	1.1	0.7	6.6	24.0	17.4
	VHT80 Beam Forming, M0 to M9 2ss	2	6	9.2	9.6			12.4	30.0	17.6
	VHT80 Beam Forming, M0 to M9 2ss	3	8	4.2	4.6	5.2		9.5	28.2	18.7
	VHT80 Beam Forming, M0 to M9 2ss	4	9	4.2	4.6	5.2	4.9	10.8	27.0	16.2
	VHT80 Beam Forming, M0 to M9 3ss	3	6	8.1	8.6	9.1		13.4	30.0	16.6
	VHT80 Beam Forming, M0 to M9 3ss	4	7	4.2	4.6	5.2	4.9	10.8	28.8	18.0
	VHT80 Beam Forming, M0 to M9 4ss	4	6	6.1	6.4	7.2	6.7	12.6	30.0	17.4
	VHT80 STBC, M0 to M9 2ss	2	6	9.2	9.6			12.4	30.0	17.6
	VHT80 STBC, M0 to M9 2ss	3	6	8.1	8.6	9.1		13.4	30.0	16.6
	VHT80 STBC, M0 to M9 2ss	4	6	6.1	6.4	7.2	6.7	12.6	30.0	17.4
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5785	6 to 54 Mbps	1	6	13.9				13.9	30.0	16.1
	6 to 54 Mbps	2	6	13.9	14.4			17.2	30.0	12.8
	6 to 54 Mbps	3	6	13.9	14.4	15.3		19.3	30.0	10.7
	6 to 54 Mbps	4	6	13.9	14.4	15.3	14.7	20.6	30.0	9.4
	6 to 54 Mbps Beam Forming	2	9	13.9	14.4			17.2	27.0	9.8
	6 to 54 Mbps Beam Forming	3	11	13.9	14.4	15.3		19.3	25.2	5.9
	6 to 54 Mbps Beam Forming	4	12	13.9	14.4	15.3	14.7	20.6	24.0	3.4
	HT/VHT20, M0 to M7, M0 to M9 1ss	1	6	14.0				14.0	30.0	16.0
	HT/VHT20, M0 to M7, M0 to M9 1ss	2	6	14.0	14.5			17.3	30.0	12.7
	HT/VHT20, M0 to M7, M0 to M9 1ss	3	6	14.0	14.5	15.4		19.4	30.0	10.6
	HT/VHT20, M0 to M7, M0 to M9 1ss	4	6	14.0	14.5	15.4	14.7	20.7	30.0	9.3
	HT/VHT20, M8 to M15, M0 to M9 2ss	2	6	14.0	14.5			17.3	30.0	12.7
	HT/VHT20, M8 to M15, M0 to M9 2ss	3	6	14.0	14.5	15.4		19.4	30.0	10.6
	HT/VHT20, M8 to M15, M0 to M9 2ss	4	6	14.0	14.5	15.4	14.7	20.7	30.0	9.3
	HT/VHT20, M16 to M23, M0 to M9 3ss	3	6	14.0	14.5	15.4		19.4	30.0	10.6
	HT/VHT20, M16 to M23, M0 to M9 3ss	4	6	14.0	14.5	15.4	14.7	20.7	30.0	9.3
	VHT20, M0 to M9 4ss	4	6	14.0	14.5	15.4	14.7	20.7	30.0	9.3
	HT/VHT20 Beam Forming, M0 to M7, M0 to M9 1ss	2	9	14.0	14.5			17.3	27.0	9.7
	HT/VHT20 Beam Forming, M0 to M7, M0 to M9 1ss	3	11	14.0	14.5	15.4		19.4	25.2	5.8
	HT/VHT20 Beam Forming, M0 to M7, M0 to M9 1ss	4	12	14.0	14.5	15.4	14.7	20.7	24.0	3.3
	HT/VHT20 Beam Forming, M8 to M15, M0 to M9 2ss	2	6	14.0	14.5			17.3	30.0	12.7
	HT/VHT20 Beam Forming, M8 to M15, M0 to M9 2ss	3	8	14.0	14.5	15.4		19.4	28.2	8.8
	HT/VHT20 Beam Forming, M8 to M15, M0 to M9 2ss	4	9	14.0	14.5	15.4	14.7	20.7	27.0	6.3
	HT/VHT20 Beam Forming, M16 to M23, M0 to M9 3ss	3	6	14.0	14.5	15.4		19.4	30.0	10.6
	HT/VHT20 Beam Forming, M16 to M23, M0 to M9 3ss	4	7	14.0	14.5	15.4	14.7	20.7	28.8	8.1
	VHT20 Beam Forming, M0 to M9 4ss	4	6	14.0	14.5	15.4	14.7	20.7	30.0	9.3
	HT/VHT20 STBC, M0 to M7	2	6	14.0	14.5			17.3	30.0	12.7
	HT/VHT20 STBC, M0 to M7	3	6	14.0	14.5	15.4		19.4	30.0	10.6

	HT/VHT20 STBC, M0 to M7	4	6	14.0	14.5	15.4	14.7	20.7	30.0	9.3
5795	Non HT40 Duplicate, 6 to 54 Mbps	1	6	13.7				13.7	30.0	16.3
	Non HT40 Duplicate, 6 to 54 Mbps	2	6	13.7	13.9			16.8	30.0	13.2
	Non HT40 Duplicate, 6 to 54 Mbps	3	6	13.7	13.9	14.8		18.9	30.0	11.1
	Non HT40 Duplicate, 6 to 54 Mbps	4	6	13.7	13.9	14.8	14.2	20.2	30.0	9.8
	HT/VHT40, M0 to M7, M0 to M9 1ss	1	6	14.2				14.2	30.0	15.8
	HT/VHT40, M0 to M7, M0 to M9 1ss	2	6	14.2	14.4			17.3	30.0	12.7
	HT/VHT40, M0 to M7, M0 to M9 1ss	3	6	14.2	14.4	15.3		19.4	30.0	10.6
	HT/VHT40, M0 to M7, M0 to M9 1ss	4	6	14.2	14.4	15.3	14.8	20.7	30.0	9.3
	HT/VHT40, M8 to M15, M0 to M9 2ss	2	6	14.2	14.4			17.3	30.0	12.7
	HT/VHT40, M8 to M15, M0 to M9 2ss	3	6	14.2	14.4	15.3		19.4	30.0	10.6
	HT/VHT40, M8 to M15, M0 to M9 2ss	4	6	14.2	14.4	15.3	14.8	20.7	30.0	9.3
	HT/VHT40, M16 to M23, M0 to M9 3ss	3	6	14.2	14.4	15.3		19.4	30.0	10.6
	HT/VHT40, M16 to M23, M0 to M9 3ss	4	6	14.2	14.4	15.3	14.8	20.7	30.0	9.3
	VHT40, M0 to M9 4ss	4	6	14.2	14.4	15.3	14.8	20.7	30.0	9.3
	HT/VHT40 Beam Forming, M0 to M7, M0 to M9 1ss	2	9	14.2	14.4			17.3	27.0	9.7
	HT/VHT40 Beam Forming, M0 to M7, M0 to M9 1ss	3	11	13.1	13.4	14.3		18.4	25.2	6.8
	HT/VHT40 Beam Forming, M0 to M7, M0 to M9 1ss	4	12	10.1	10.5	11.2	10.8	16.7	24.0	7.3
	HT/VHT40 Beam Forming, M8 to M15, M0 to M9 2ss	2	6	14.2	14.4			17.3	30.0	12.7
	HT/VHT40 Beam Forming, M8 to M15, M0 to M9 2ss	3	8	14.2	14.4	15.3		19.4	28.2	8.8
	HT/VHT40 Beam Forming, M8 to M15, M0 to M9 2ss	4	9	13.1	13.4	14.3	13.7	19.7	27.0	7.3
	HT/VHT40 Beam Forming, M16 to M23, M0 to M9 3ss	3	6	14.2	14.4	15.3		19.4	30.0	10.6
	HT/VHT40 Beam Forming, M16 to M23, M0 to M9 3ss	4	7	14.2	14.4	15.3	14.8	20.7	28.8	8.1
	VHT40 Beam Forming, M0 to M9 4ss	4	6	14.2	14.4	15.3	14.8	20.7	30.0	9.3
	HT/VHT40 STBC, M0 to M7	2	6	14.2	14.4			17.3	30.0	12.7
	HT/VHT40 STBC, M0 to M7	3	6	14.2	14.4	15.3		19.4	30.0	10.6
	HT/VHT40 STBC, M0 to M7	4	6	14.2	14.4	15.3	14.8	20.7	30.0	9.3

	6 to 54 Mbps	1	6	14.2				14.2	30.0	15.8
5825	6 to 54 Mbps	2	6	14.2	14.3			17.3	30.0	12.7
	6 to 54 Mbps	3	6	14.2	14.3	14.9		19.2	30.0	10.8
	6 to 54 Mbps	4	6	14.2	14.3	14.9	14.5	20.5	30.0	9.5
	6 to 54 Mbps Beam Forming	2	9	14.2	14.3			17.3	27.0	9.7
	6 to 54 Mbps Beam Forming	3	11	11.0	11.3	11.9		16.2	25.2	9.0
	6 to 54 Mbps Beam Forming	4	12	9.2	9.3	9.9	9.7	15.6	24.0	8.4
	HT/VHT20, M0 to M7, M0 to M9 1ss	1	6	14.2				14.2	30.0	15.8
	HT/VHT20, M0 to M7, M0 to M9 1ss	2	6	14.2	14.4			17.3	30.0	12.7
	HT/VHT20, M0 to M7, M0 to M9 1ss	3	6	14.2	14.4	15.0		19.3	30.0	10.7
	HT/VHT20, M0 to M7, M0 to M9 1ss	4	6	13.2	13.4	14.0	13.6	19.6	30.0	10.4
	HT/VHT20, M8 to M15, M0 to M9 2ss	2	6	14.2	14.4			17.3	30.0	12.7

HT/VHT20, M8 to M15, M0 to M9 2ss	3	6	14.2	14.4	15.0		19.3	30.0	10.7
HT/VHT20, M8 to M15, M0 to M9 2ss	4	6	13.2	13.4	14.0	13.6	19.6	30.0	10.4
HT/VHT20, M16 to M23, M0 to M9 3ss	3	6	14.2	14.4	15.0		19.3	30.0	10.7
HT/VHT20, M16 to M23, M0 to M9 3ss	4	6	13.2	13.4	14.0	13.6	19.6	30.0	10.4
VHT20, M0 to M9 4ss	4	6	13.2	13.4	14.0	13.6	19.6	30.0	10.4
HT/VHT20 Beam Forming, M0 to M7, M0 to M9 1ss	2	9	13.2	13.4			16.3	27.0	10.7
HT/VHT20 Beam Forming, M0 to M7, M0 to M9 1ss	3	11	10.3	10.4	10.9		15.3	25.2	9.9
HT/VHT20 Beam Forming, M0 to M7, M0 to M9 1ss	4	12	8.2	8.4	8.9	8.8	14.6	24.0	9.4
HT/VHT20 Beam Forming, M8 to M15, M0 to M9 2ss	2	6	14.2	14.4			17.3	30.0	12.7
HT/VHT20 Beam Forming, M8 to M15, M0 to M9 2ss	3	8	13.2	13.4	14.0		18.3	28.2	9.9
HT/VHT20 Beam Forming, M8 to M15, M0 to M9 2ss	4	9	10.3	10.4	10.9	10.8	16.6	27.0	10.4
HT/VHT20 Beam Forming, M16 to M23, M0 to M9 3ss	3	6	14.2	14.4	15.0		19.3	30.0	10.7
HT/VHT20 Beam Forming, M16 to M23, M0 to M9 3ss	4	7	12.2	12.4	13.0	12.7	18.6	28.8	10.2
VHT20 Beam Forming, M0 to M9 4ss	4	6	13.2	13.4	14.0	13.6	19.6	30.0	10.4
HT/VHT20 STBC, M0 to M7	2	6	14.2	14.4			17.3	30.0	12.7
HT/VHT20 STBC, M0 to M7	3	6	14.2	14.4	15.0		19.3	30.0	10.7
HT/VHT20 STBC, M0 to M7	4	6	13.2	13.4	14.0	13.6	19.6	30.0	10.4

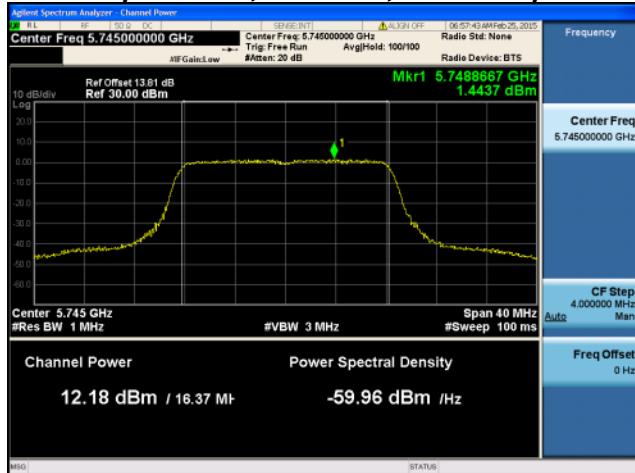
### Peak Output Power, 5745 MHz, 6 to 54 Mbps



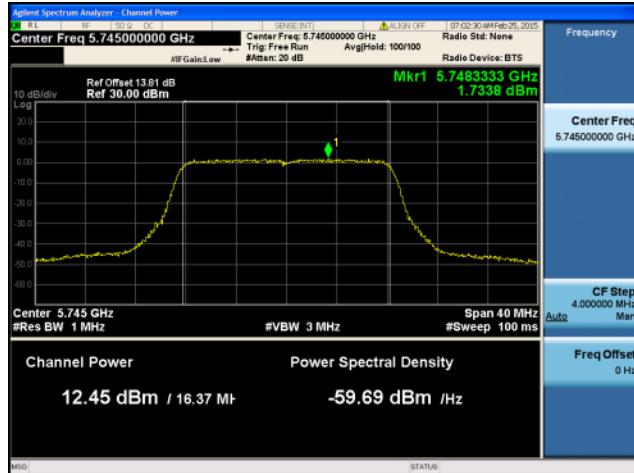
**Antenna A**



### Peak Output Power, 5745 MHz, 6 to 54 Mbps



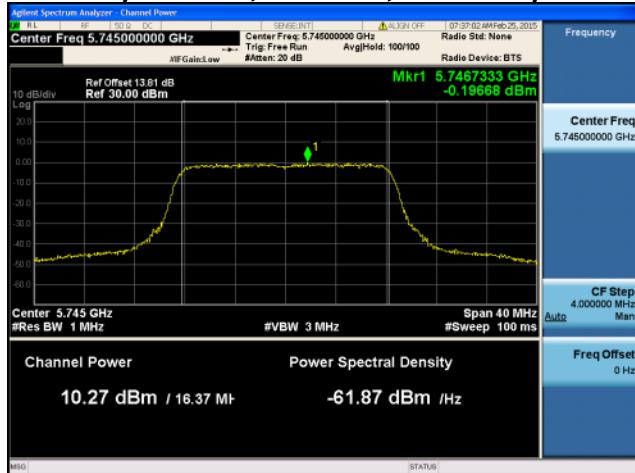
### **Antenna A**



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*Antenna B*

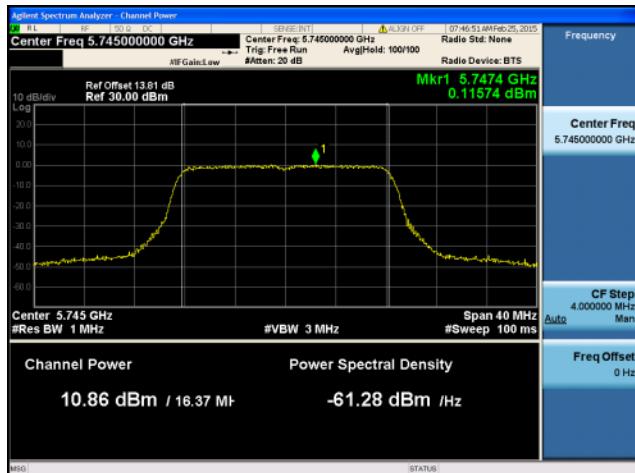
### Peak Output Power, 5745 MHz, 6 to 54 Mbps



Antenna A



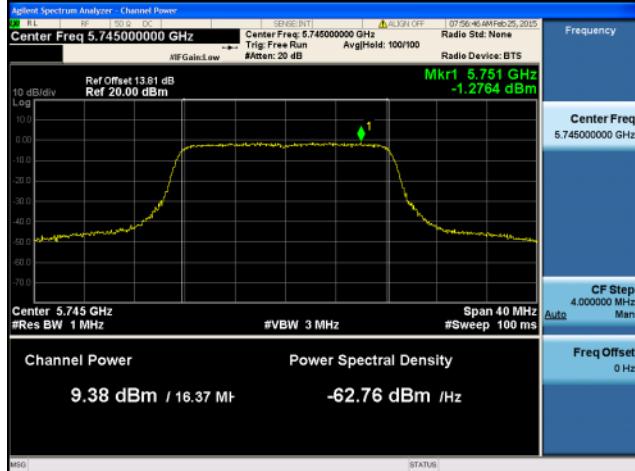
Antenna B



Antenna C

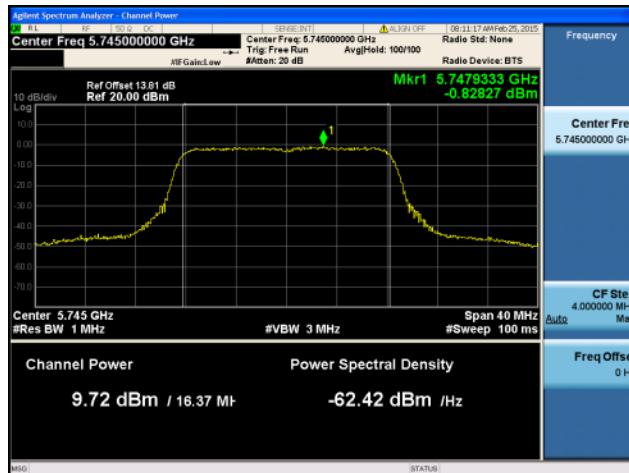
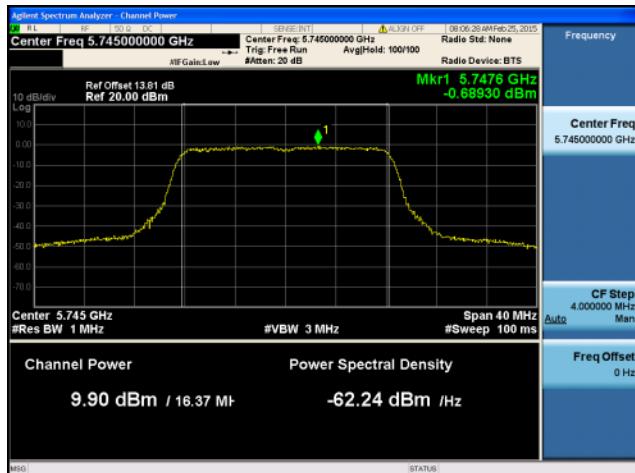


### Peak Output Power, 5745 MHz, 6 to 54 Mbps



**Antenna A**

**Antenna B**

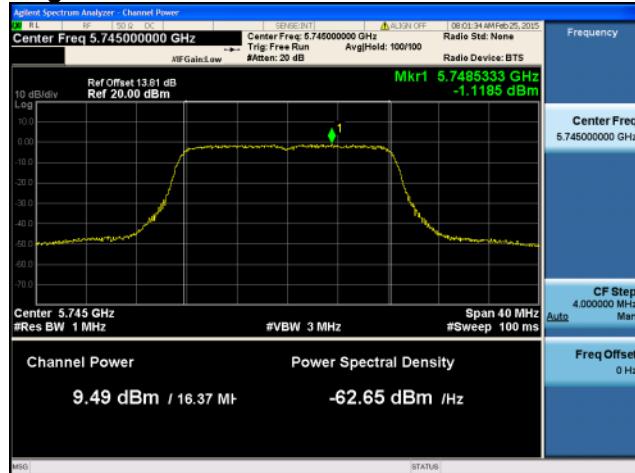
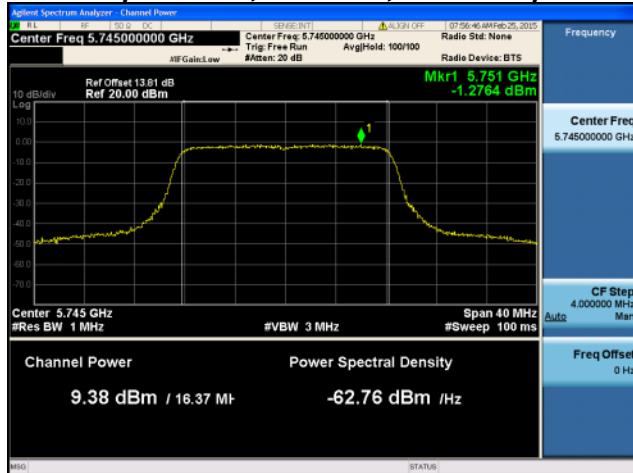


**Antenna C**

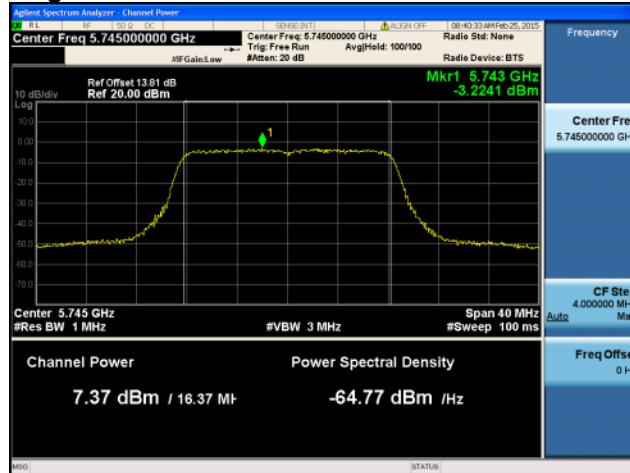
**Antenna D**



### Peak Output Power, 5745 MHz, 6 to 54 Mbps Beam Forming

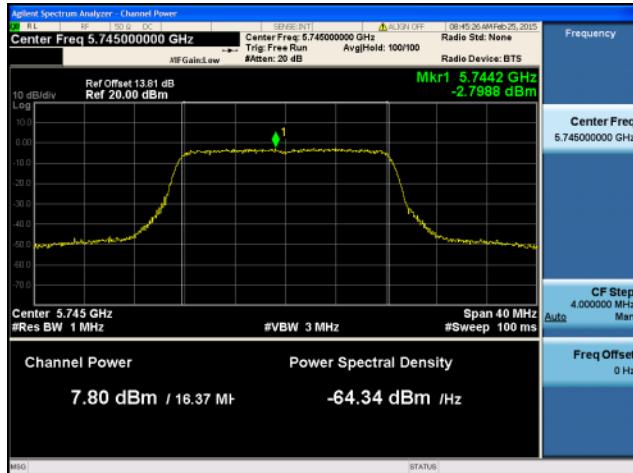


### Peak Output Power, 5745 MHz, 6 to 54 Mbps Beam Forming



Antenna A

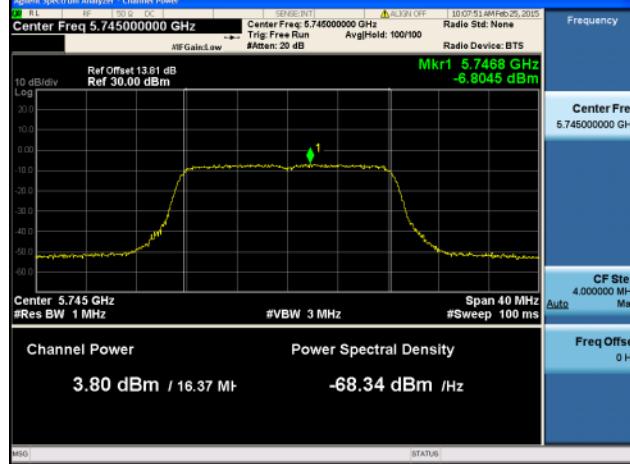
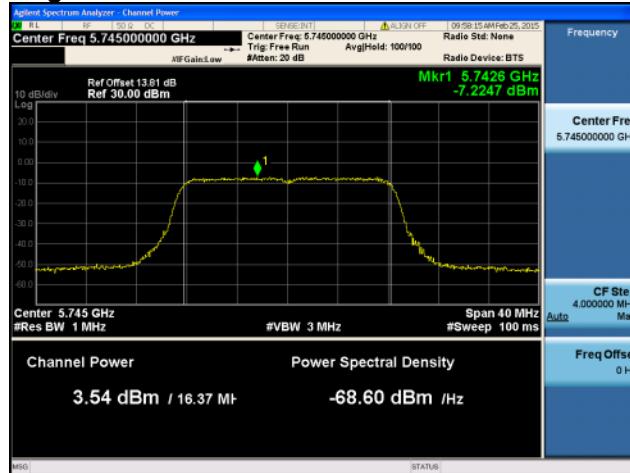
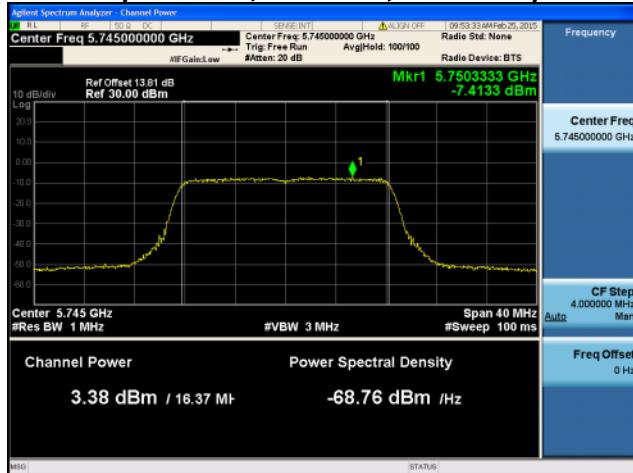
Antenna B



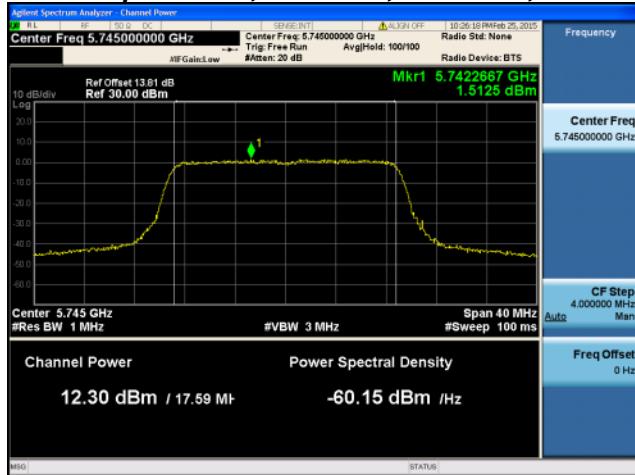
Antenna C



### Peak Output Power, 5745 MHz, 6 to 54 Mbps Beam Forming

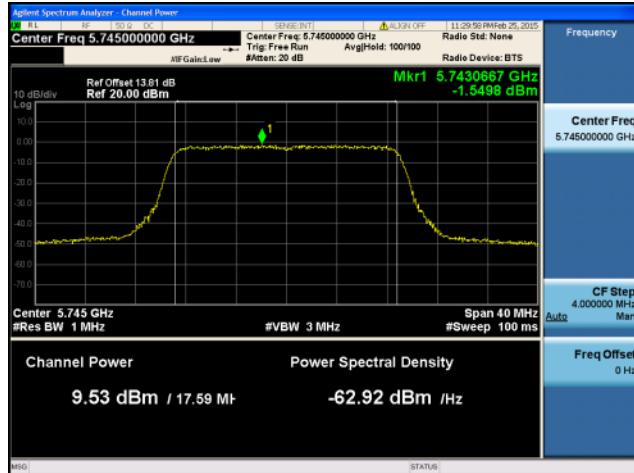


### Peak Output Power, 5745 MHz, HT/VHT20, M0 to M7, M0 to M9 1ss



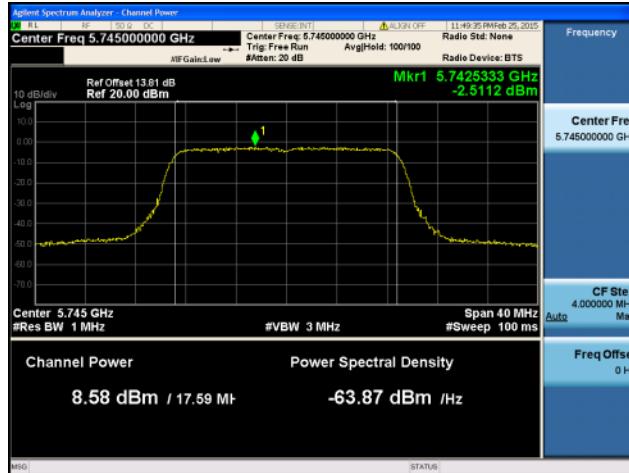
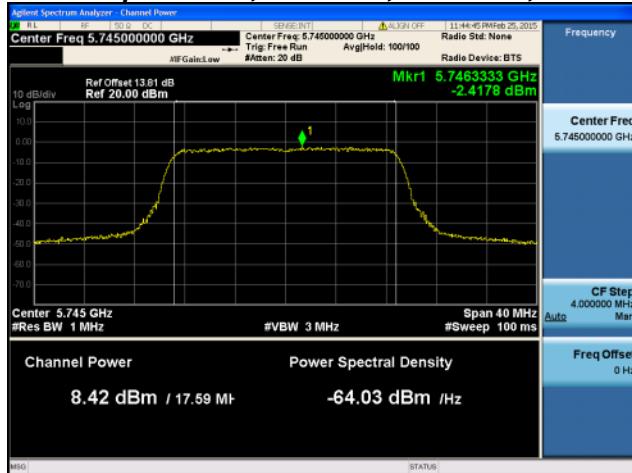
**Antenna A**

**Peak Output Power, 5745 MHz, HT/VHT20, M0 to M7, M0 to M9 1ss**
**Antenna A****Antenna B**

**Peak Output Power, 5745 MHz, HT/VHT20, M0 to M7, M0 to M9 1ss**
**Antenna A****Antenna B****Antenna C**

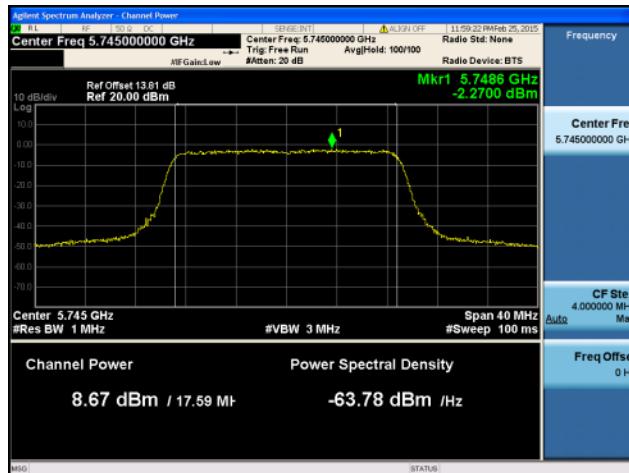
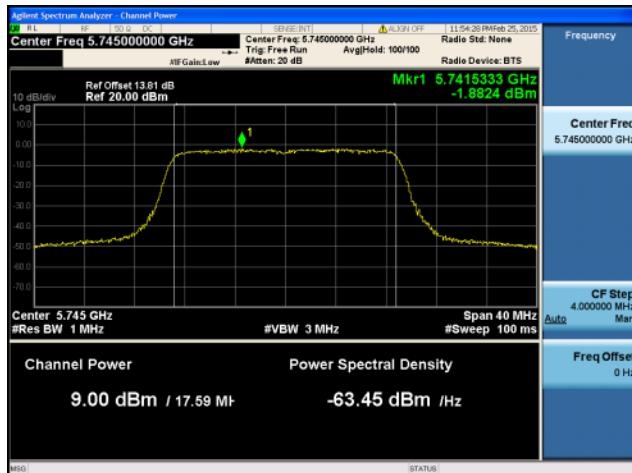


### Peak Output Power, 5745 MHz, HT/VHT20, M0 to M7, M0 to M9 1ss



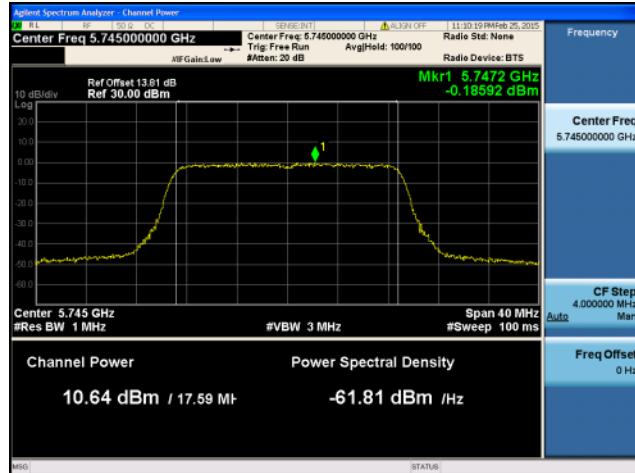
Antenna A

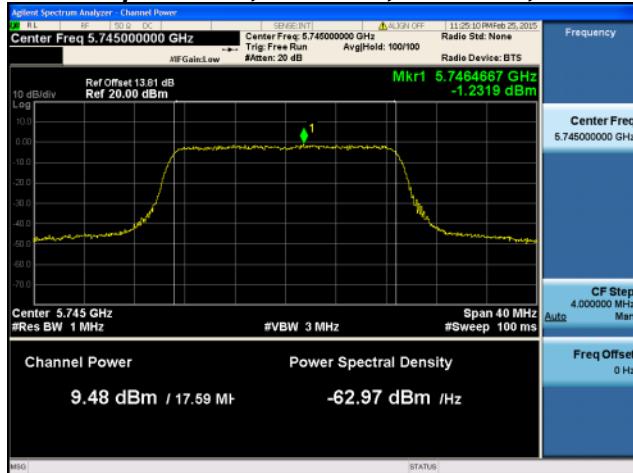
Antenna B



Antenna C

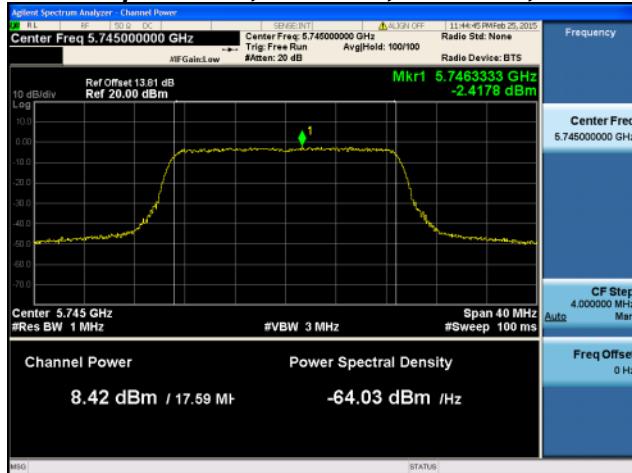
Antenna D

**Peak Output Power, 5745 MHz, HT/VHT20, M8 to M15, M0 to M9 2ss**
**Antenna A****Antenna B**

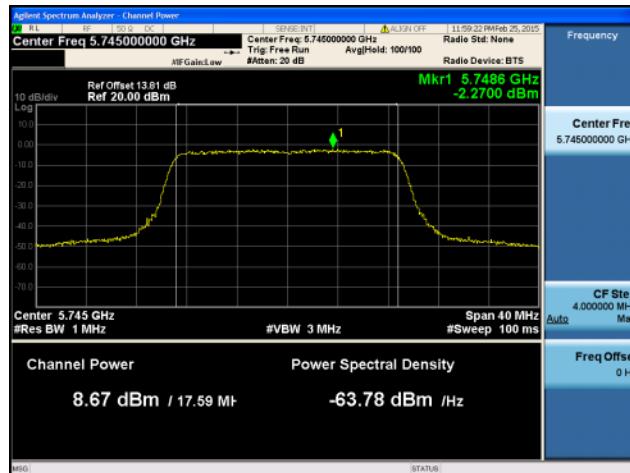
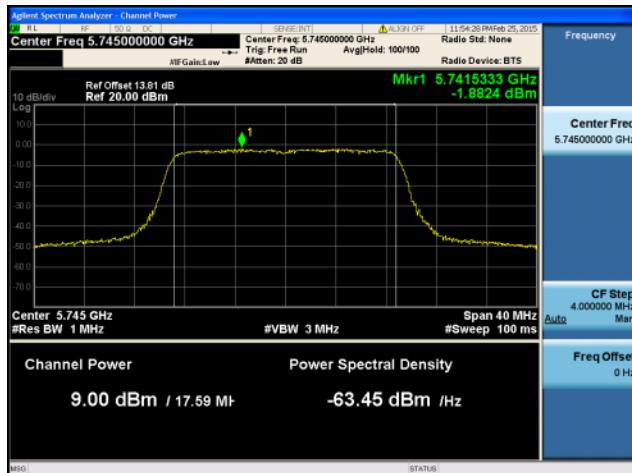
**Peak Output Power, 5745 MHz, HT/VHT20, M8 to M15, M0 to M9 2ss**
**Antenna A****Antenna B****Antenna C**



### Peak Output Power, 5745 MHz, HT/VHT20, M8 to M15, M0 to M9 2ss

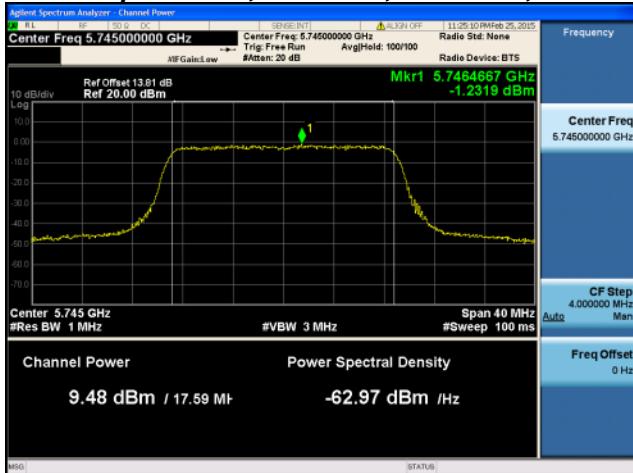
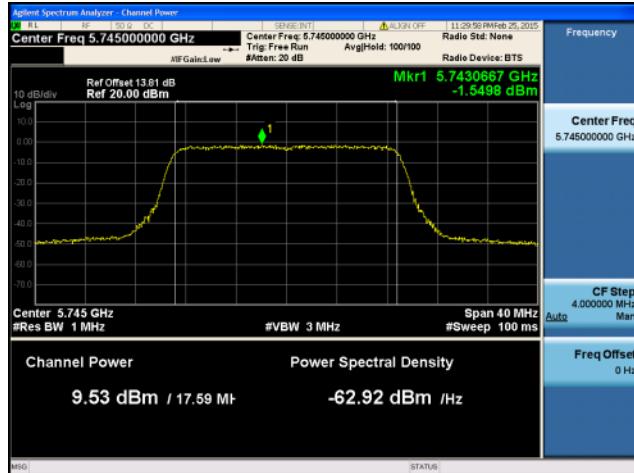
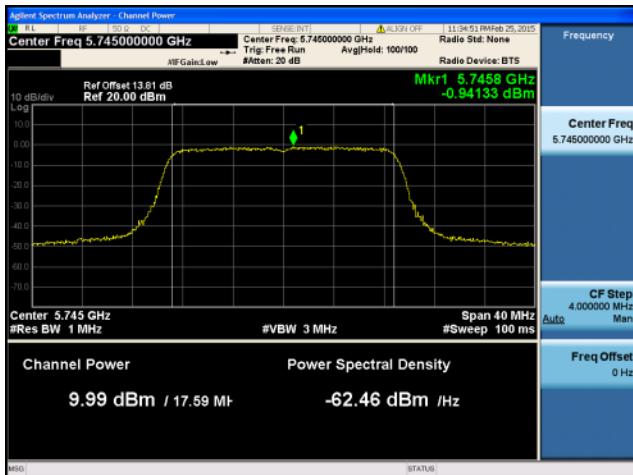


**Antenna A**



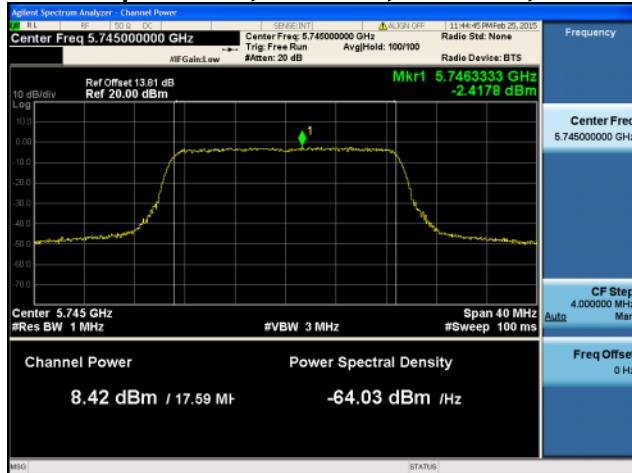
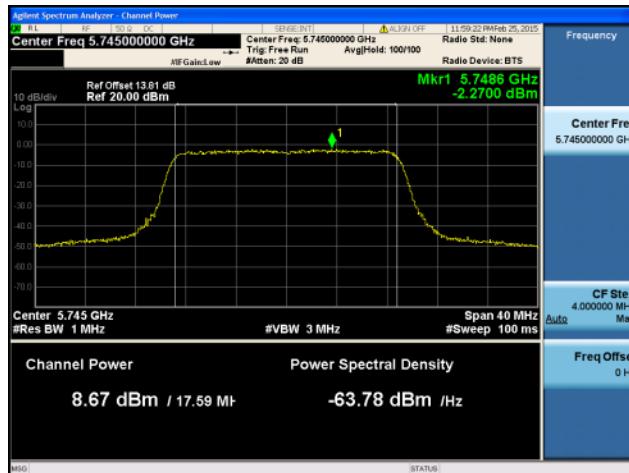
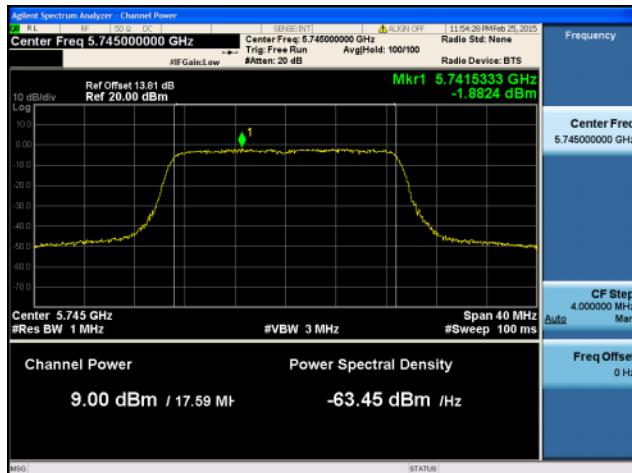
**Antenna C**

**Antenna D**

**Peak Output Power, 5745 MHz, HT/VHT20, M16 to M23, M0 to M9 3ss**
**Antenna A****Antenna B****Antenna C**

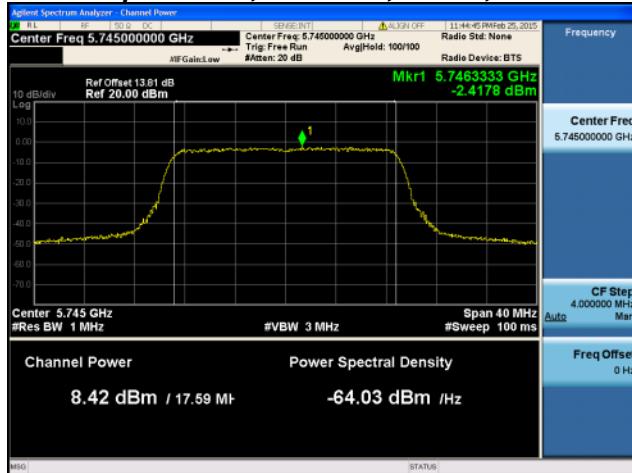


### Peak Output Power, 5745 MHz, HT/VHT20, M16 to M23, M0 to M9 3ss

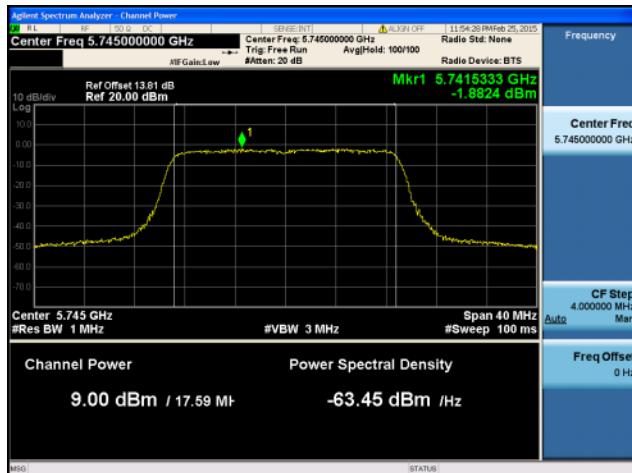
**Antenna A****Antenna B****Antenna C****Antenna D**



### Peak Output Power, 5745 MHz, VHT20, M0 to M9 4ss



**Antenna A**

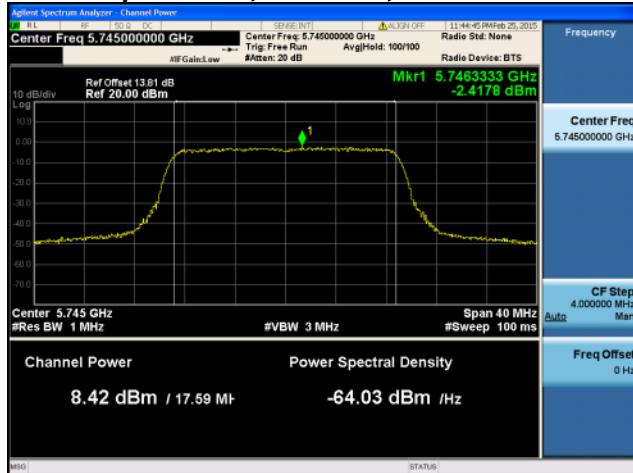


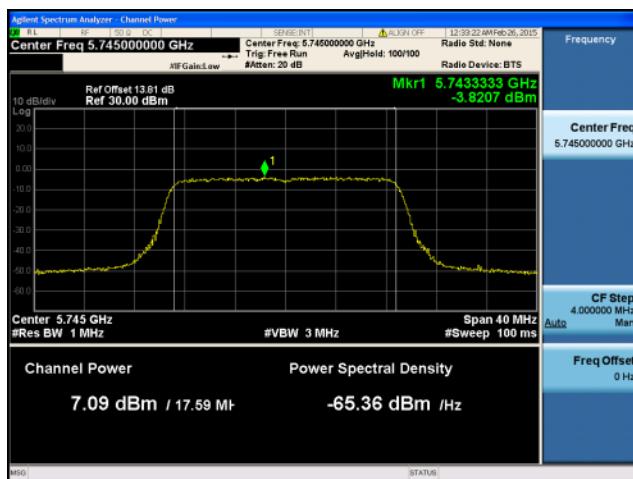
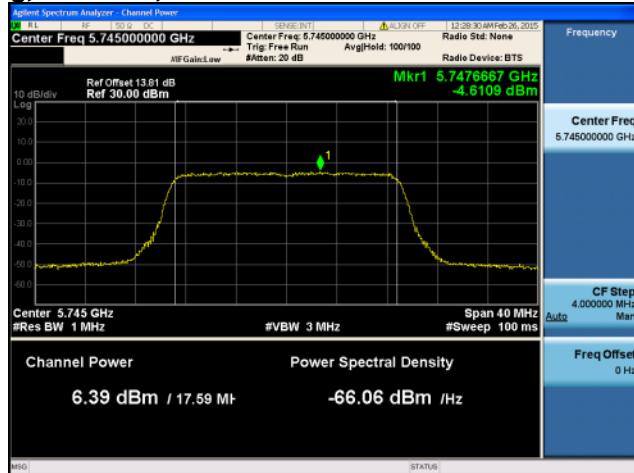
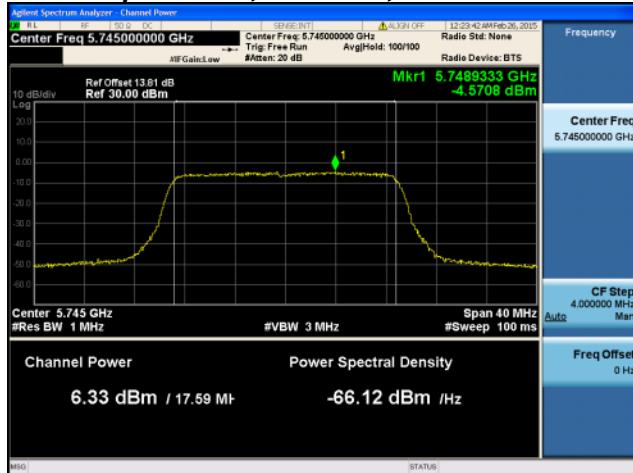
**Antenna C**

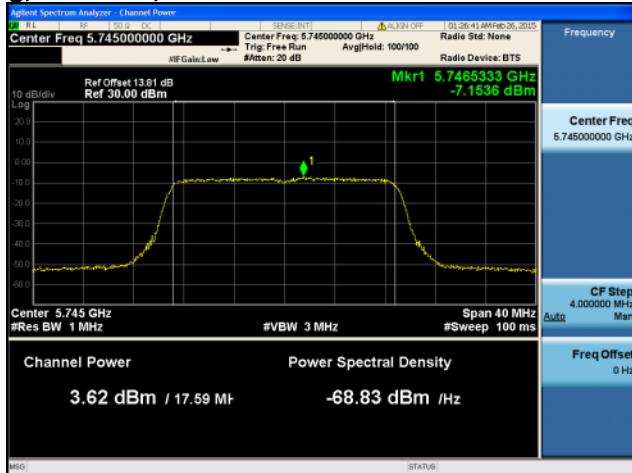
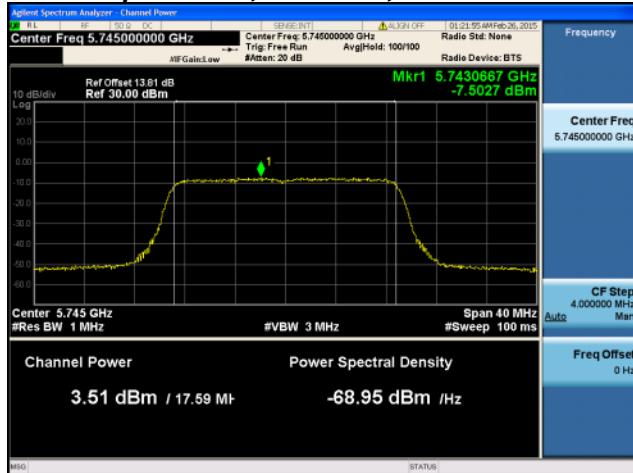
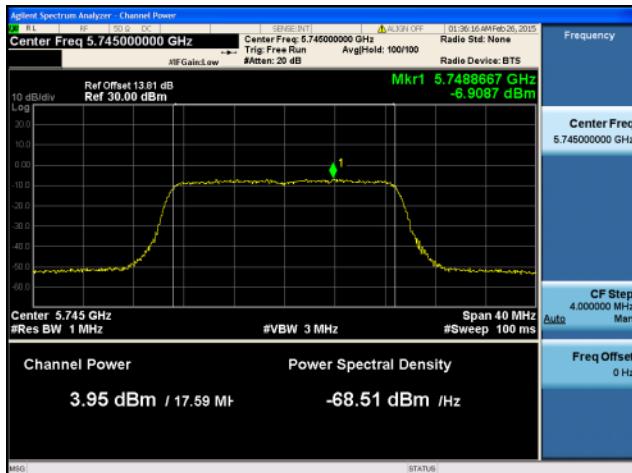
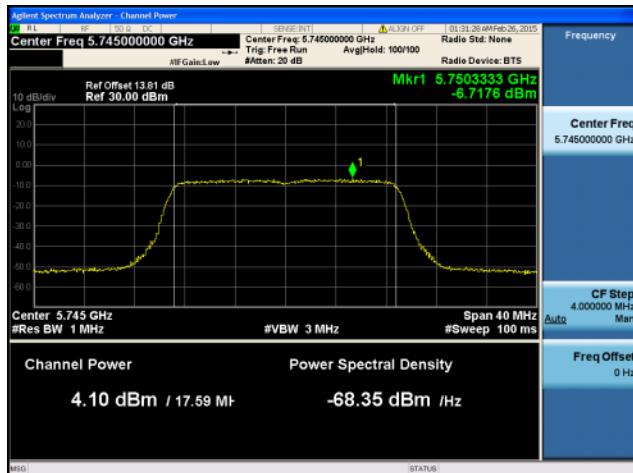
**Antenna D**



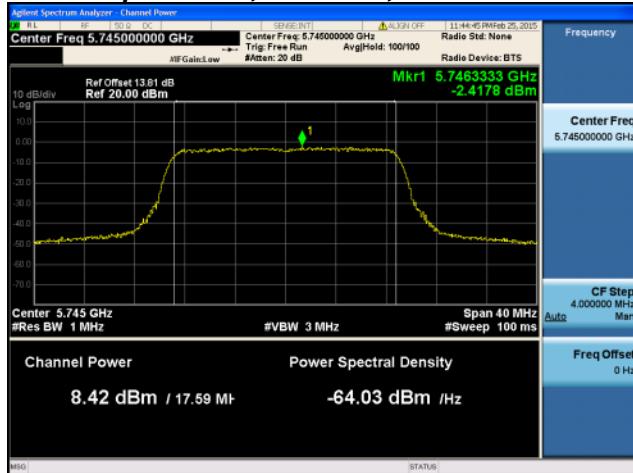
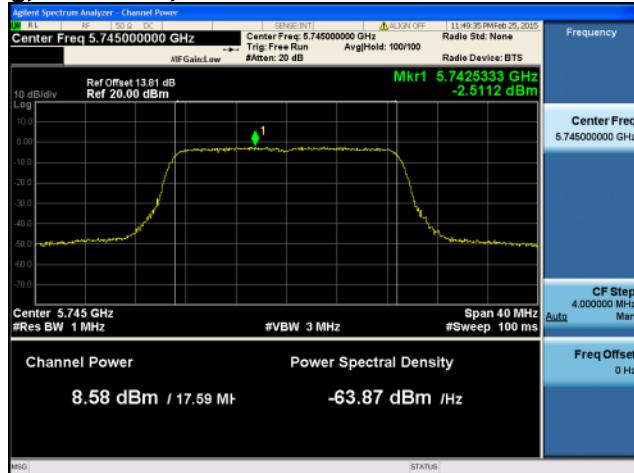
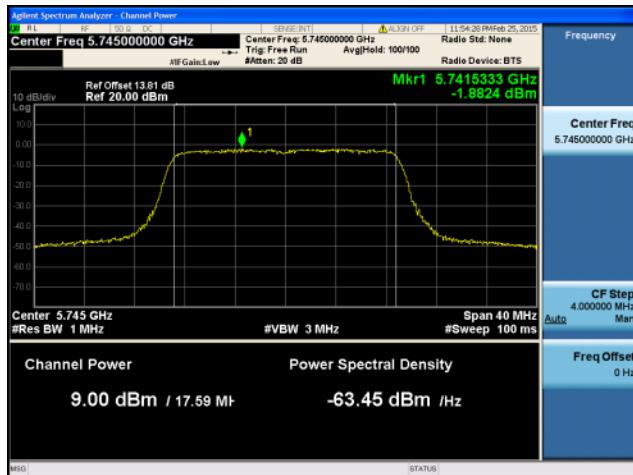
### Peak Output Power, 5745 MHz, HT/VHT20 Beam Forming, M0 to M7, M0 to M9 1ss



**Peak Output Power, 5745 MHz, HT/VHT20 Beam Forming, M0 to M7, M0 to M9 1ss**


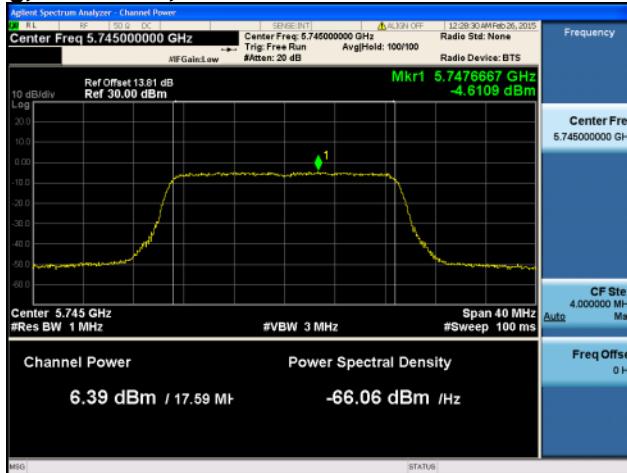
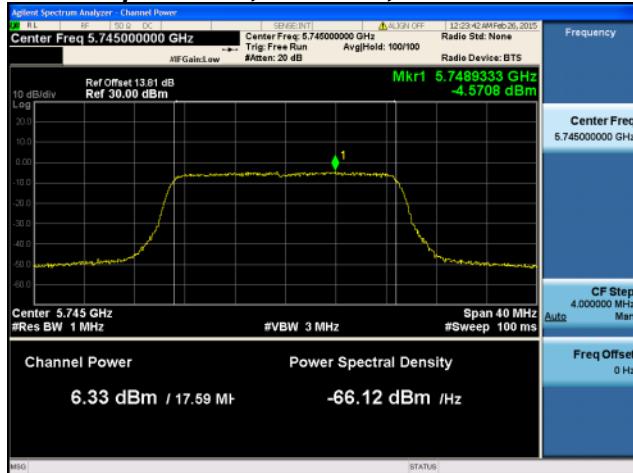
**Peak Output Power, 5745 MHz, HT/VHT20 Beam Forming, M0 to M7, M0 to M9 1ss**
**Antenna A****Antenna B****Antenna C****Antenna D**

**Peak Output Power, 5745 MHz, HT/VHT20 Beam Forming, M8 to M15, M0 to M9 2ss**
**Antenna A****Antenna B**

**Peak Output Power, 5745 MHz, HT/VHT20 Beam Forming, M8 to M15, M0 to M9 2ss**
**Antenna A****Antenna B****Antenna C**

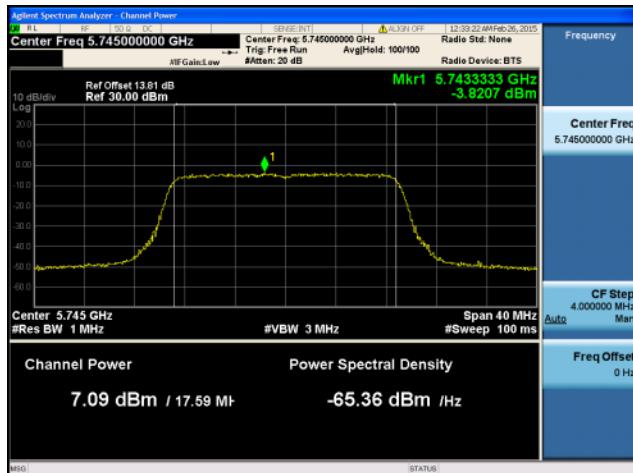


**Peak Output Power, 5745 MHz, HT/VHT20 Beam Forming, M8 to M15, M0 to M9 2ss**



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### **Antenna A**

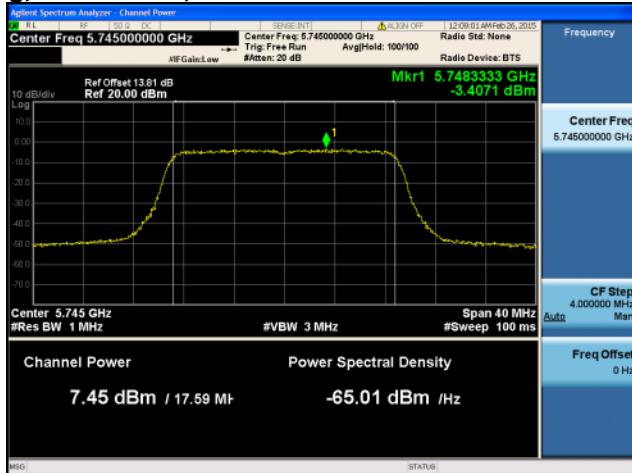
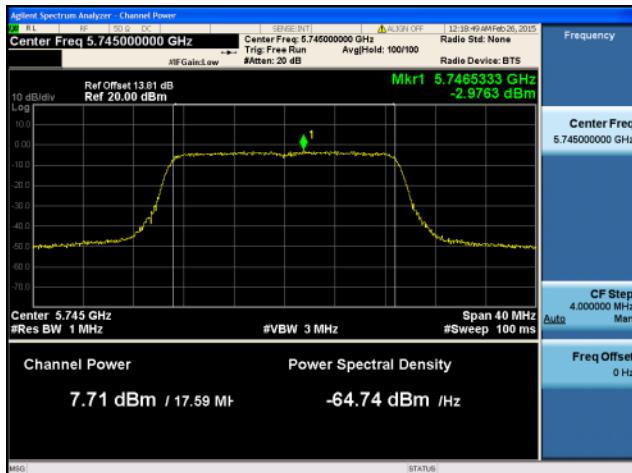
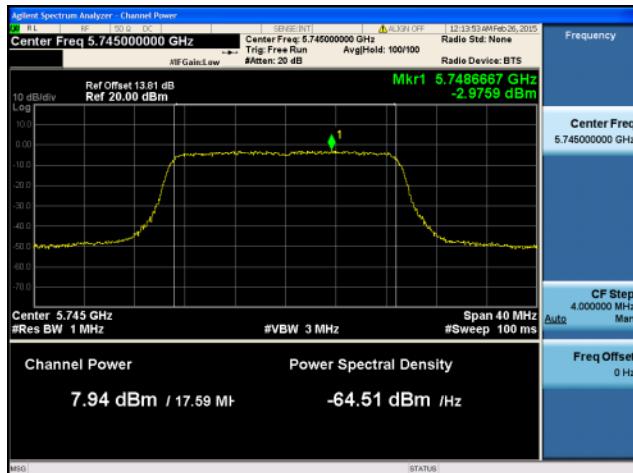


**Antenna C**

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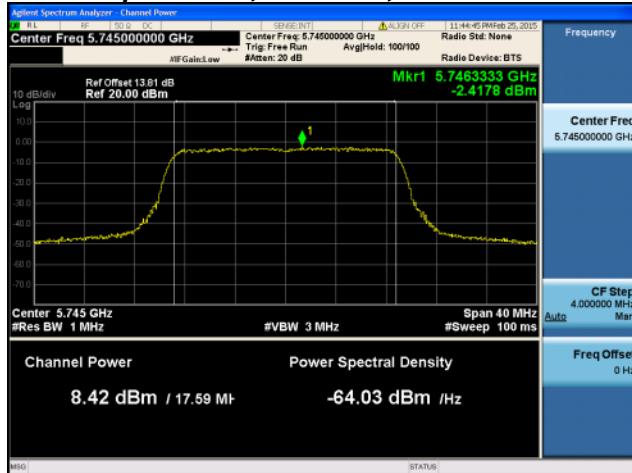
*Antenna D*

**Peak Output Power, 5745 MHz, HT/VHT20 Beam Forming, M16 to M23, M0 to M9 3ss**


**Peak Output Power, 5745 MHz, HT/VHT20 Beam Forming, M16 to M23, M0 to M9 3ss**
**Antenna A****Antenna B****Antenna C****Antenna D**

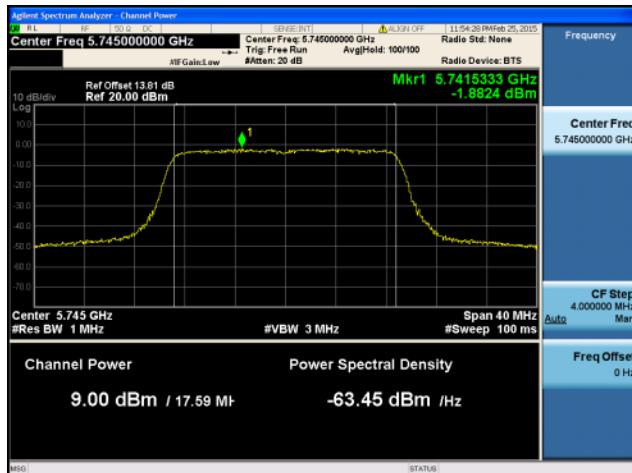


### Peak Output Power, 5745 MHz, VHT20 Beam Forming, M0 to M9 4ss



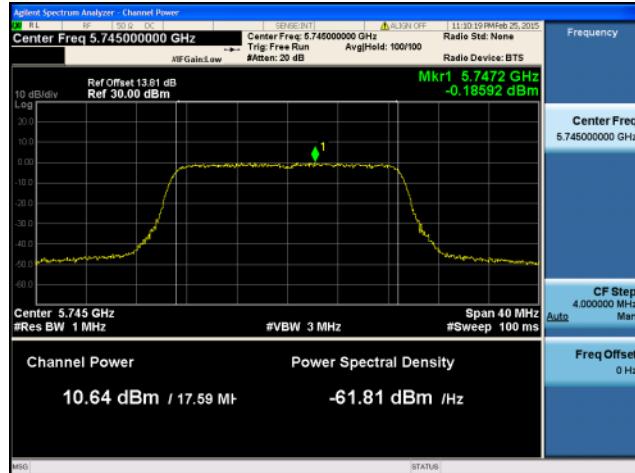
Antenna A

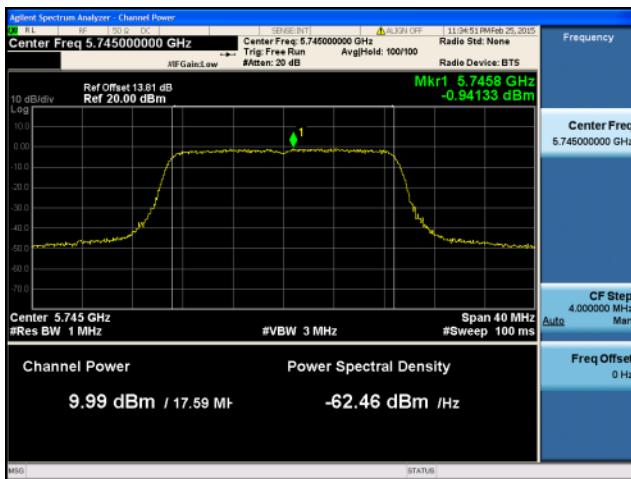
Antenna B



Antenna C

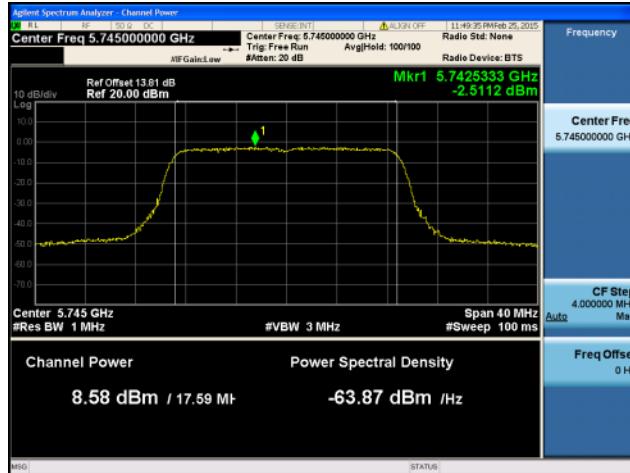
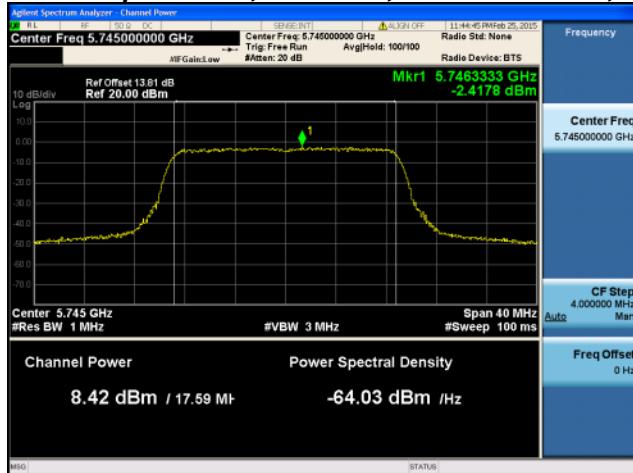
Antenna D

**Peak Output Power, 5745 MHz, HT/VHT20 STBC, M0 to M7**
**Antenna A****Antenna B**

**Peak Output Power, 5745 MHz, HT/VHT20 STBC, M0 to M7**
**Antenna A****Antenna B****Antenna C**

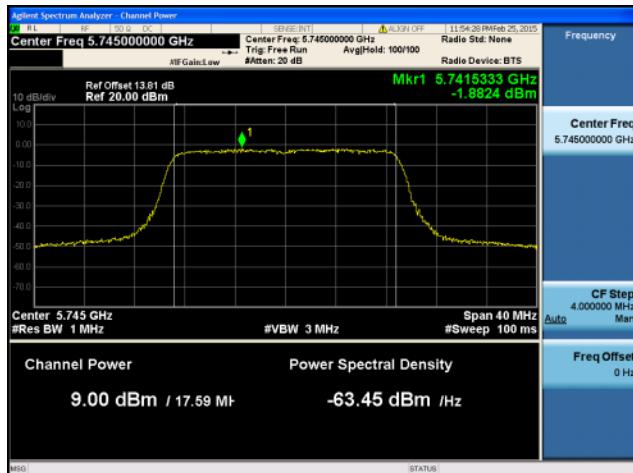


### Peak Output Power, 5745 MHz, HT/VHT20 STBC, M0 to M7



Antenna A

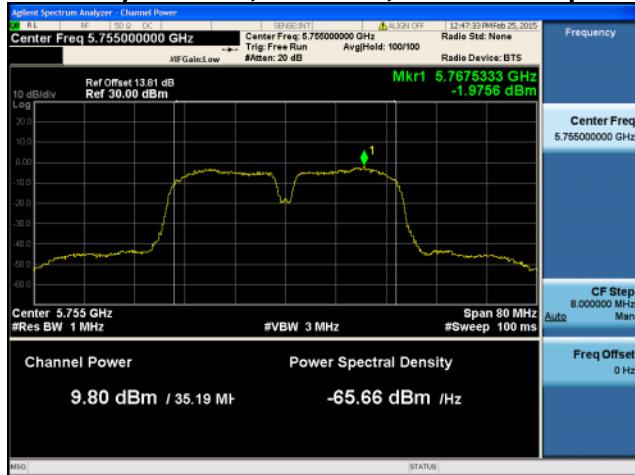
Antenna B



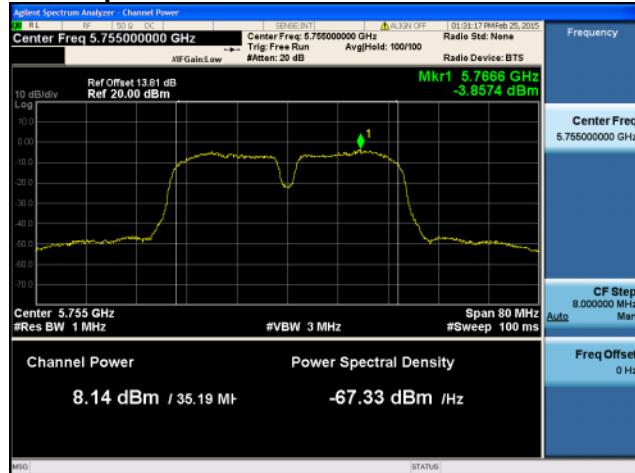
Antenna C

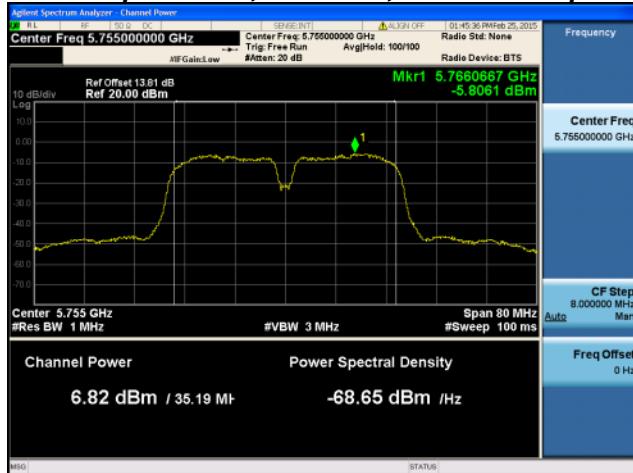
Antenna D

### Peak Output Power, 5755 MHz, Non HT40 Duplicate, 6 to 54 Mbps

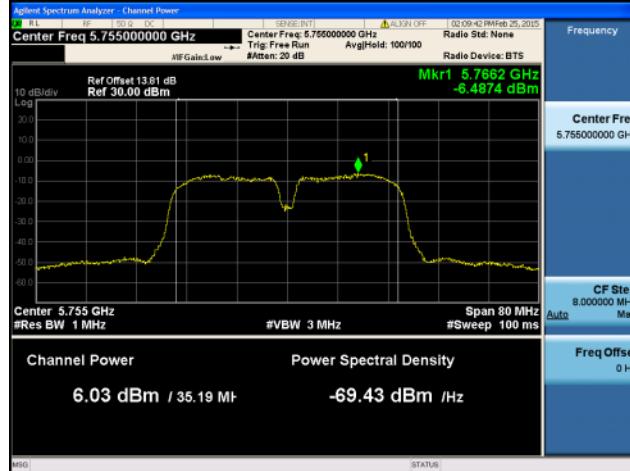
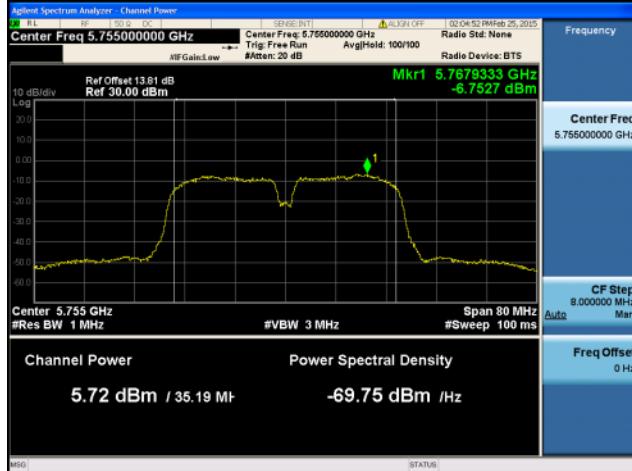


**Antenna A**

**Peak Output Power, 5755 MHz, Non HT40 Duplicate, 6 to 54 Mbps**
**Antenna A****Antenna B**

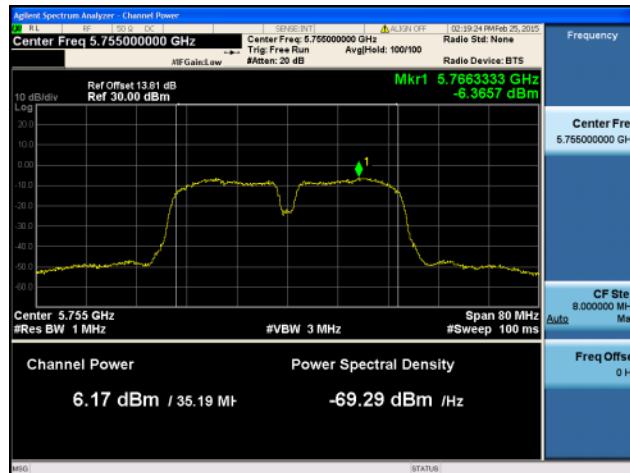
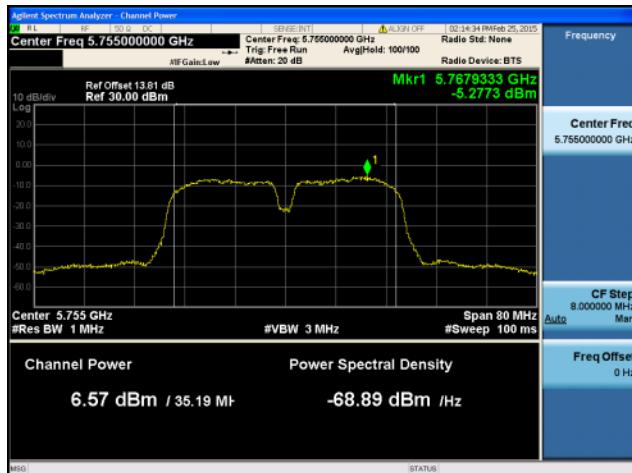
**Peak Output Power, 5755 MHz, Non HT40 Duplicate, 6 to 54 Mbps**
**Antenna A****Antenna B****Antenna C**

### Peak Output Power, 5755 MHz, Non HT40 Duplicate, 6 to 54 Mbps



Antenna A

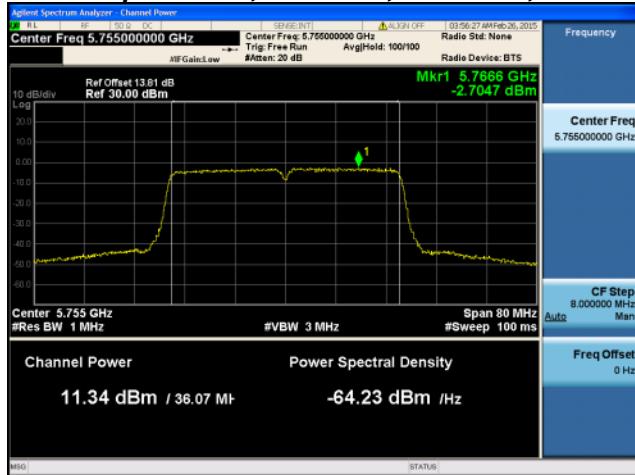
Antenna B



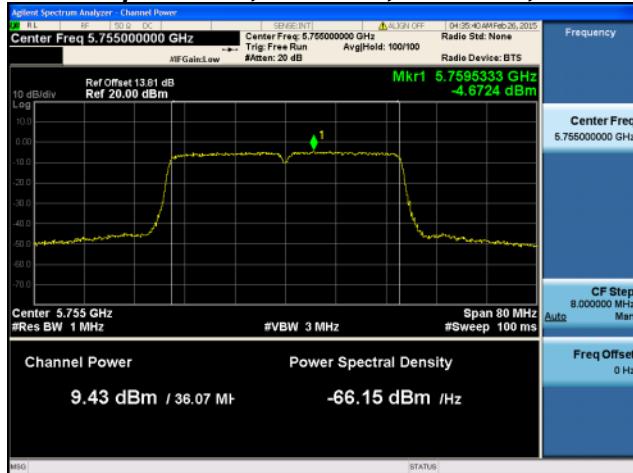
Antenna C

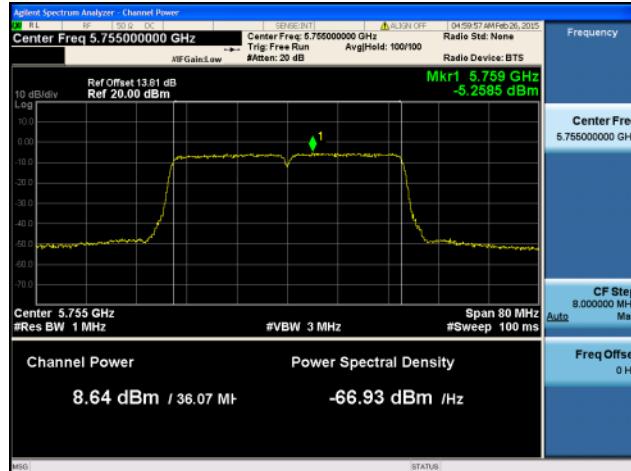
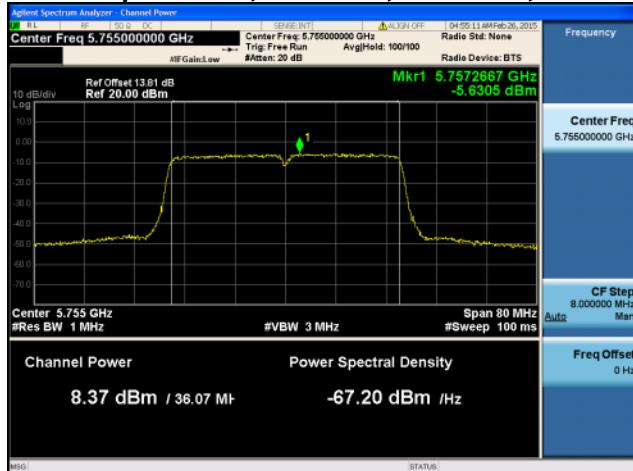
Antenna D

### Peak Output Power, 5755 MHz, HT/VHT40, M0 to M7, M0 to M9 1ss



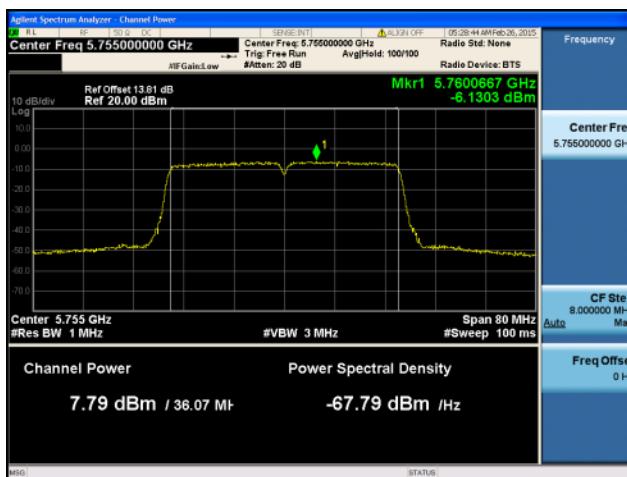
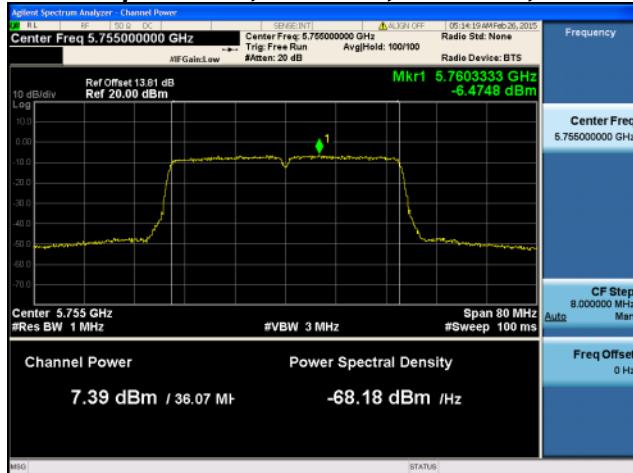
**Antenna A**

**Peak Output Power, 5755 MHz, HT/VHT40, M0 to M7, M0 to M9 1ss**
**Antenna A****Antenna B**

**Peak Output Power, 5755 MHz, HT/VHT40, M0 to M7, M0 to M9 1ss**


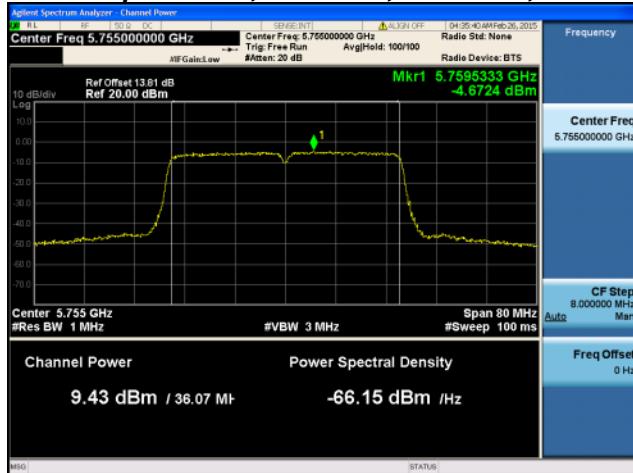


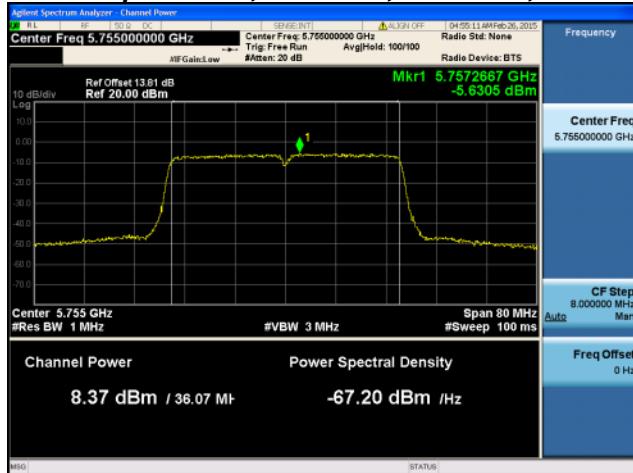
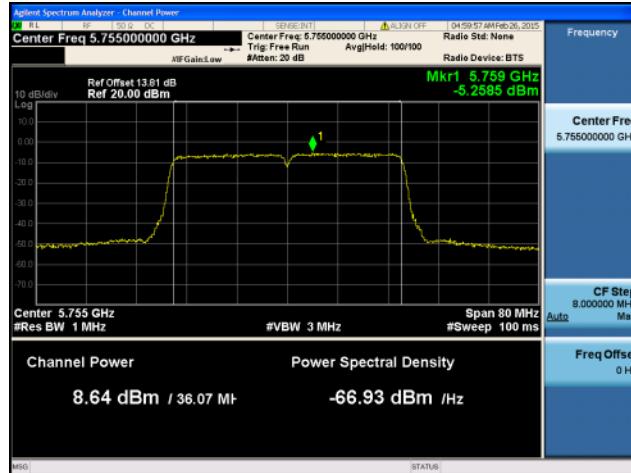
### Peak Output Power, 5755 MHz, HT/VHT40, M0 to M7, M0 to M9 1ss





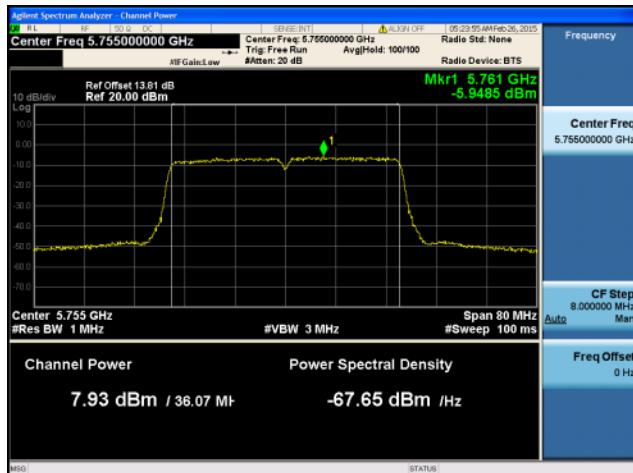
### Peak Output Power, 5755 MHz, HT/VHT40, M8 to M15, M0 to M9 2ss

**Antenna A****Antenna B**

**Peak Output Power, 5755 MHz, HT/VHT40, M8 to M15, M0 to M9 2ss**
**Antenna A****Antenna B****Antenna C**



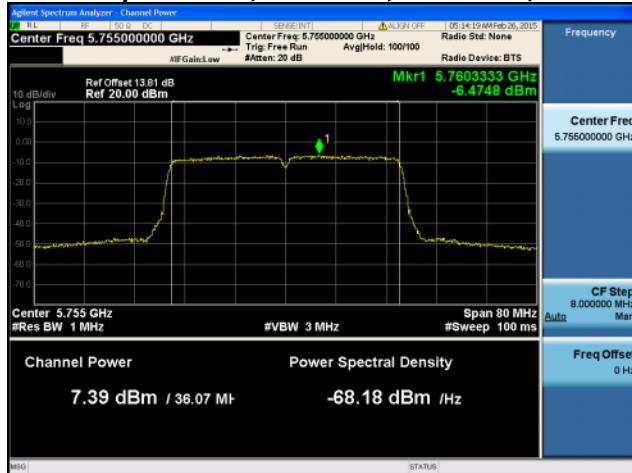
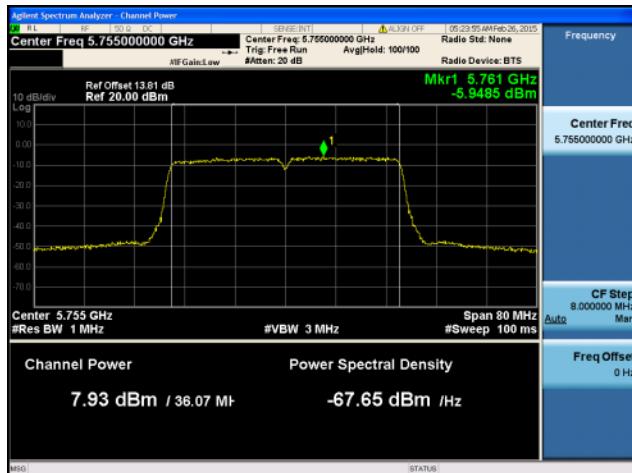
### Peak Output Power, 5755 MHz, HT/VHT40, M8 to M15, M0 to M9 2ss

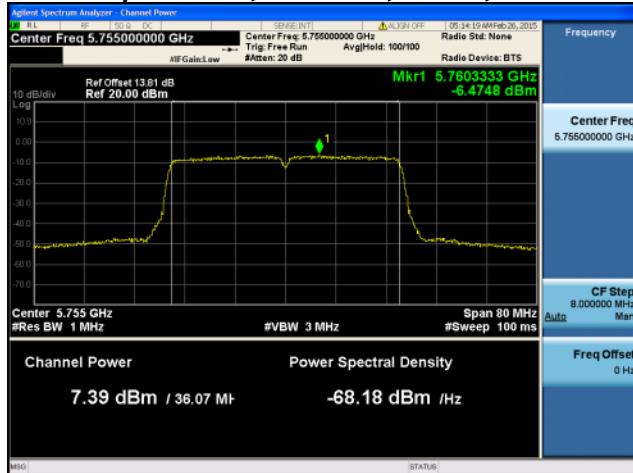
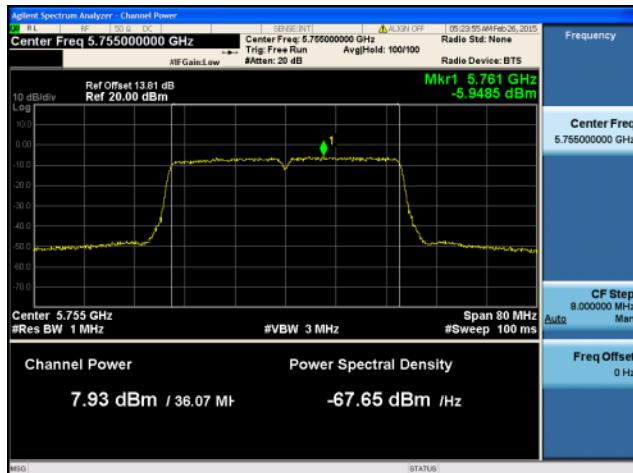
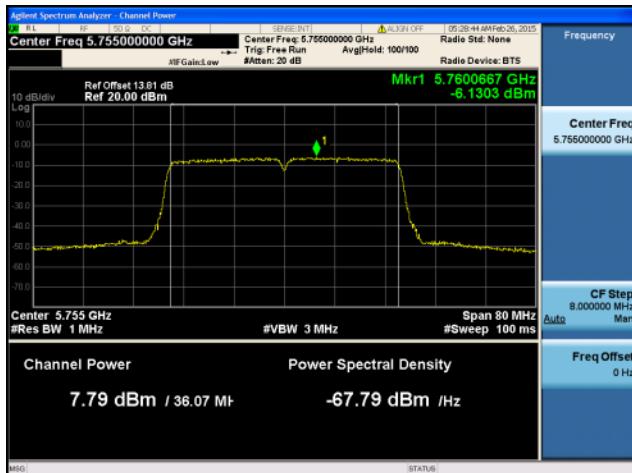
**Antenna A****Antenna B****Antenna C****Antenna D**

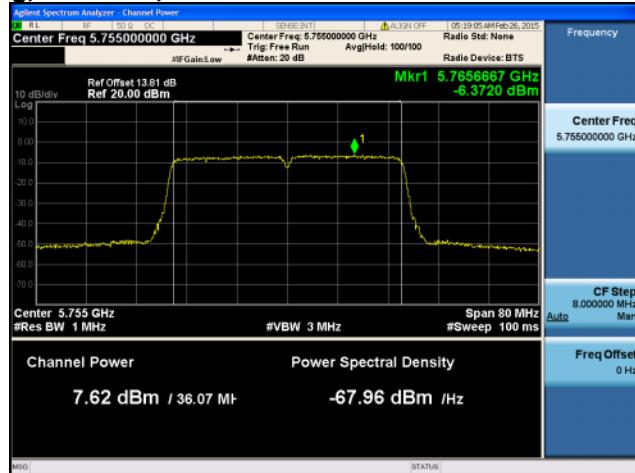
**Peak Output Power, 5755 MHz, HT/VHT40, M16 to M23, M0 to M9 3ss**
**Antenna A****Antenna B****Antenna C**



### Peak Output Power, 5755 MHz, HT/VHT40, M16 to M23, M0 to M9 3ss

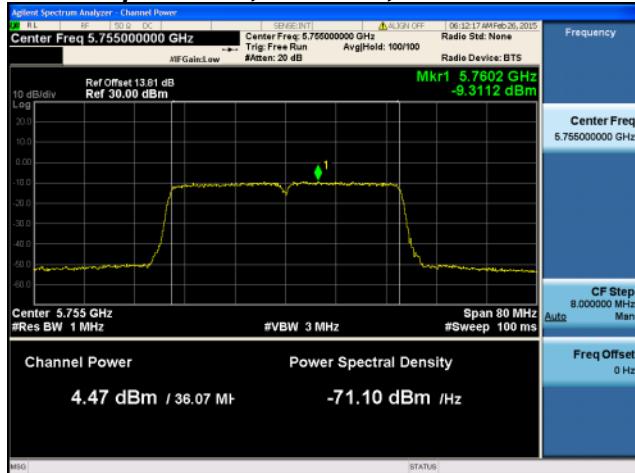
**Antenna A****Antenna B****Antenna C****Antenna D**

**Peak Output Power, 5755 MHz, VHT40, M0 to M9 4ss****Antenna A****Antenna B****Antenna C****Antenna D**

**Peak Output Power, 5755 MHz, HT/VHT40 Beam Forming, M0 to M7, M0 to M9 1ss**


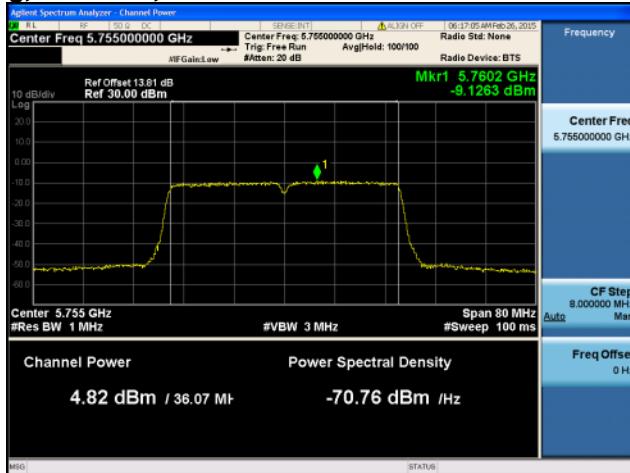


**Peak Output Power, 5755 MHz, HT/VHT40 Beam Forming, M0 to M7, M0 to M9 1ss**



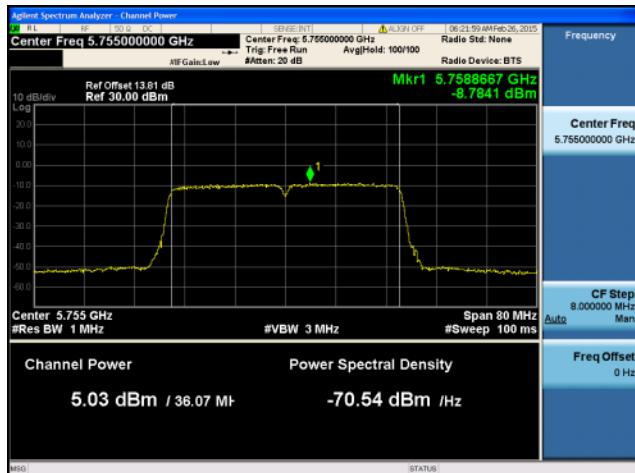
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### **Antenna A**



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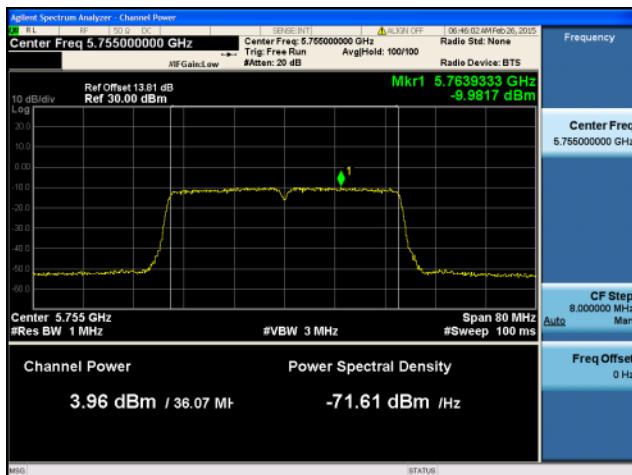
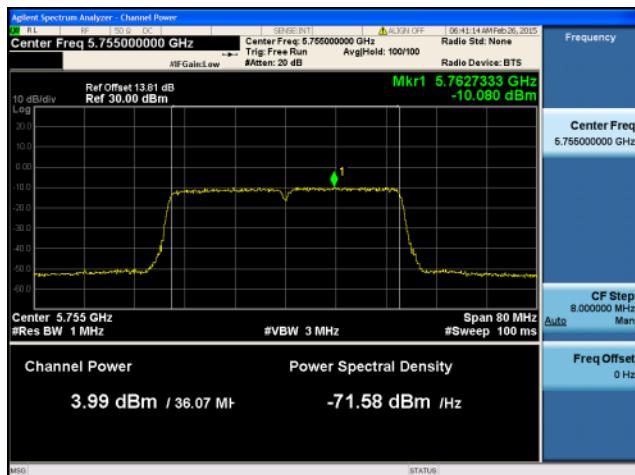
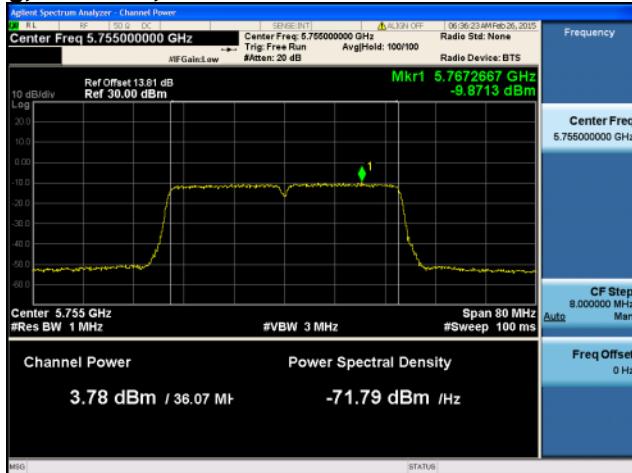
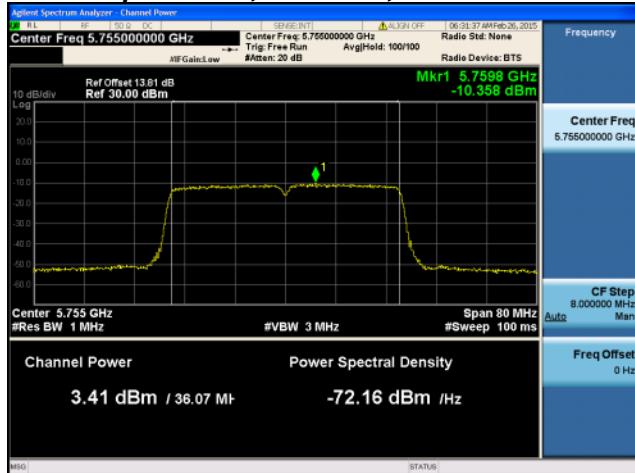
*Antenna B*

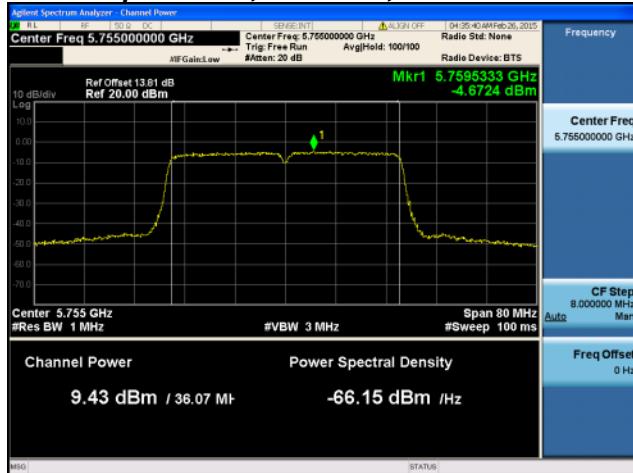


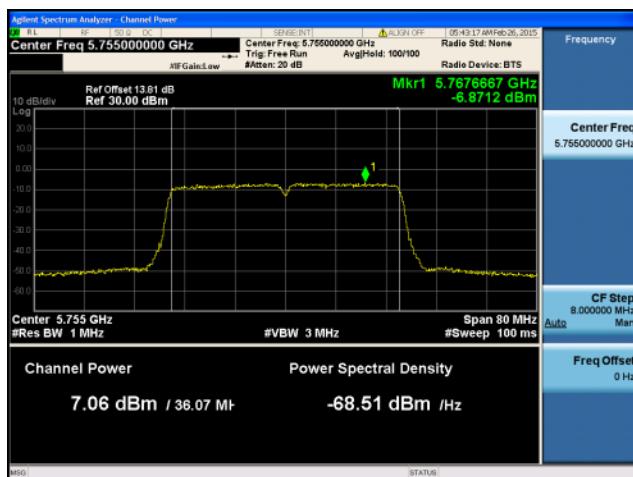
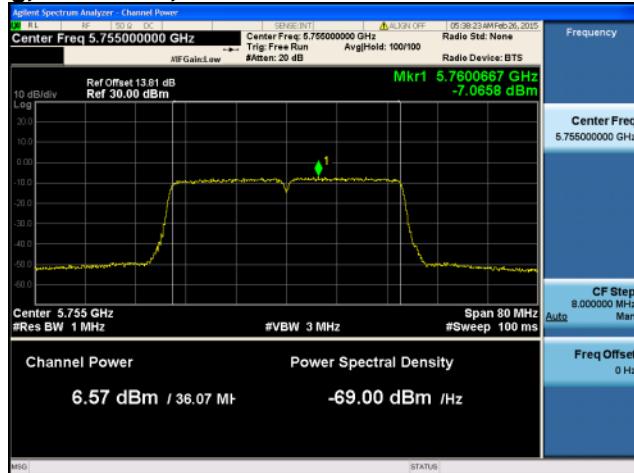
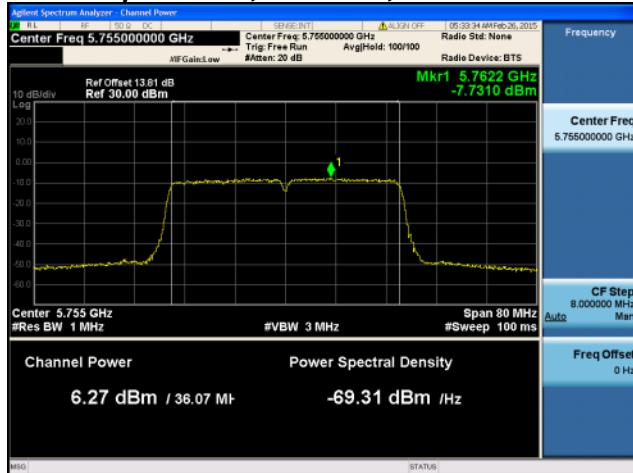
**Antenna C**



### Peak Output Power, 5755 MHz, HT/VHT40 Beam Forming, M0 to M7, M0 to M9 1ss

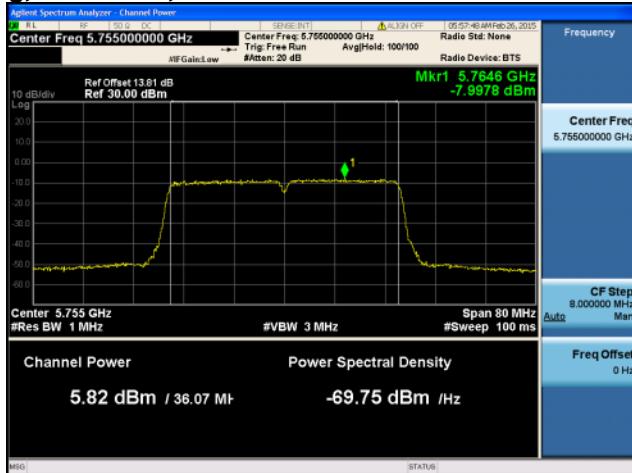
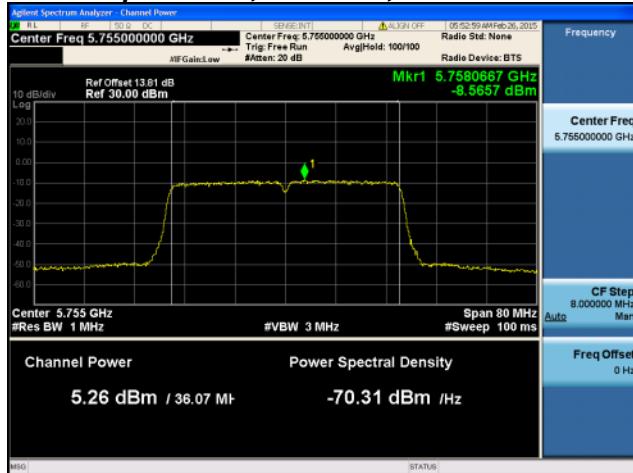


**Peak Output Power, 5755 MHz, HT/VHT40 Beam Forming, M8 to M15, M0 to M9 2ss**
**Antenna A****Antenna B**

**Peak Output Power, 5755 MHz, HT/VHT40 Beam Forming, M8 to M15, M0 to M9 2ss**




### Peak Output Power, 5755 MHz, HT/VHT40 Beam Forming, M8 to M15, M0 to M9 2ss

**Antenna A****Antenna B****Antenna C****Antenna D**

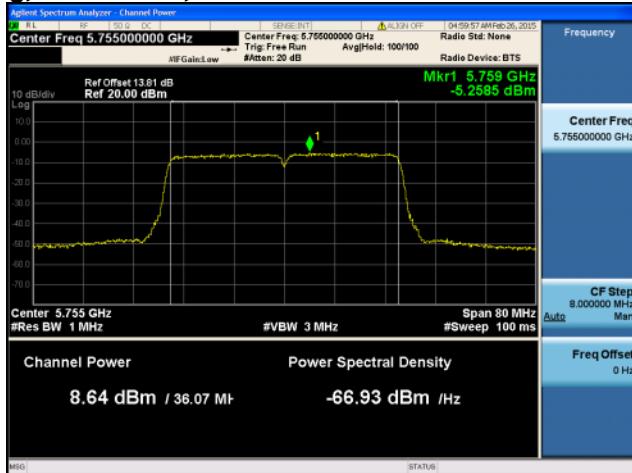


**Peak Output Power, 5755 MHz, HT/VHT40 Beam Forming, M16 to M23, M0 to M9 3ss**



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### **Antenna A**



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*Antenna B*

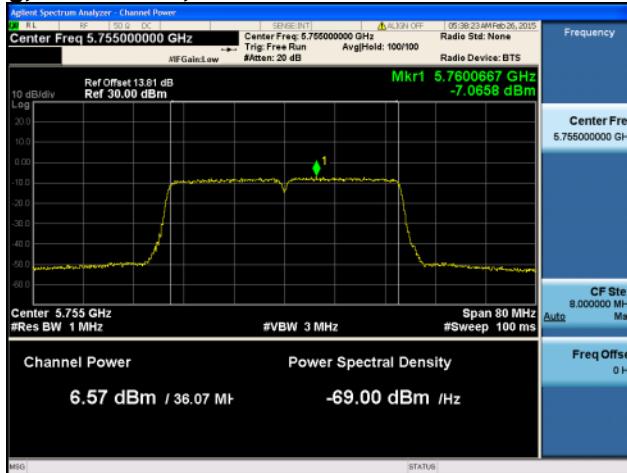
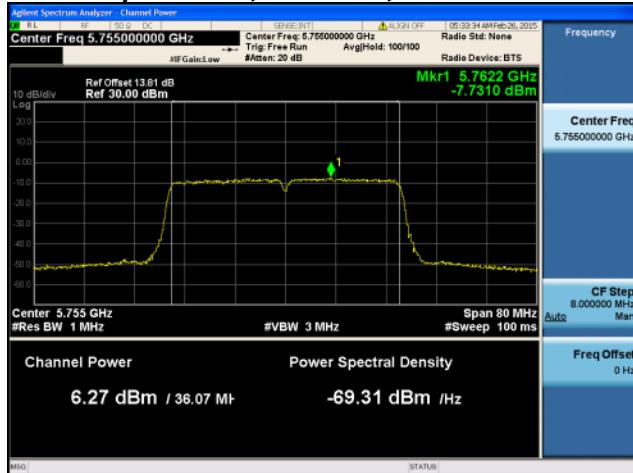


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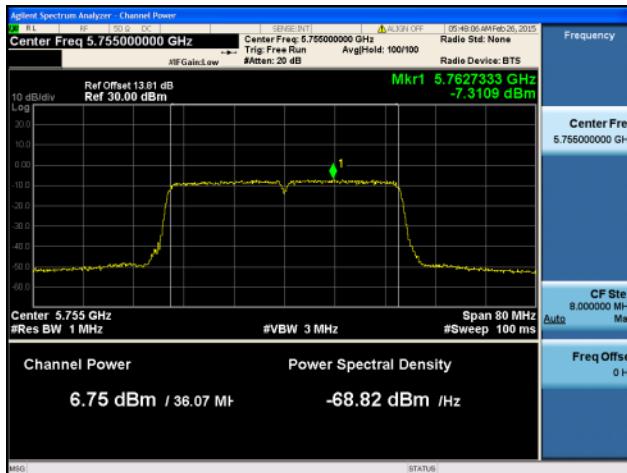
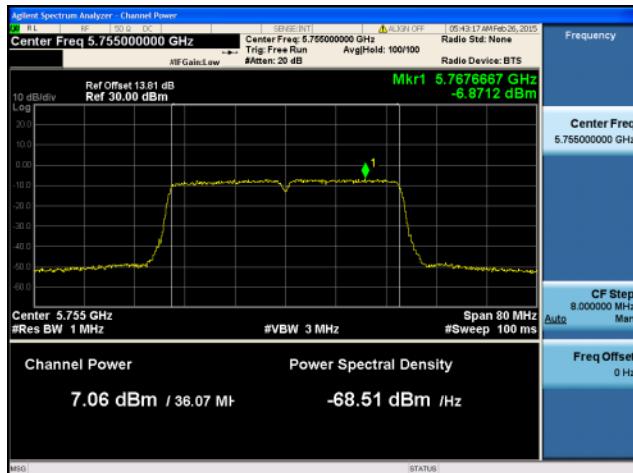
**Antenna C**



### Peak Output Power, 5755 MHz, HT/VHT40 Beam Forming, M16 to M23, M0 to M9 3ss



**Antenna A**



**Antenna C**

**Antenna D**

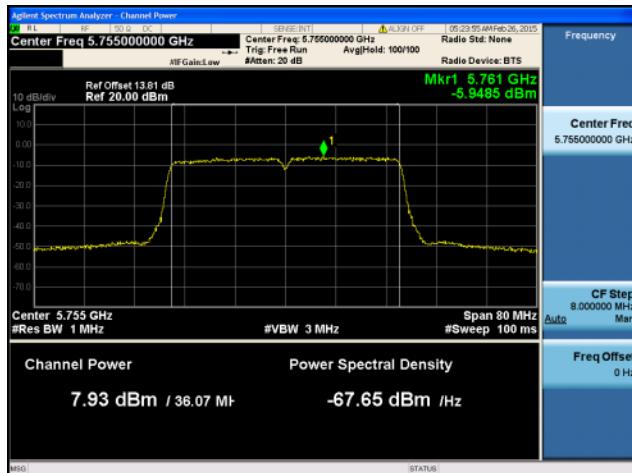


### Peak Output Power, 5755 MHz, VHT40 Beam Forming, M0 to M9 4ss



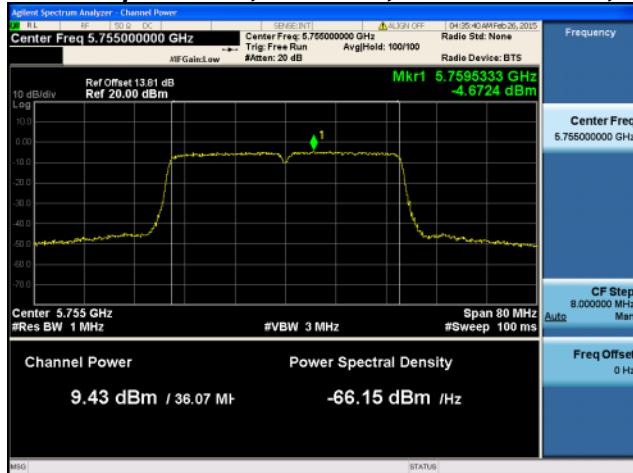
Antenna A

Antenna B



Antenna C

Antenna D

**Peak Output Power, 5755 MHz, HT/VHT40 STBC, M0 to M7**
**Antenna A****Antenna B**

**Peak Output Power, 5755 MHz, HT/VHT40 STBC, M0 to M7**
