

# **Test Report**

FCC ID: LDK102099 AIR-AP3802E-B-K9, AIR-AP3802E-UXK9 AIR-AP2802E-B-K9, AIR-AP2802E-UXK9

IC: 2461B-102099 AIR-AP3802E-A-K9, AIR-AP3802E-UXK9 AIR-AP2802E-A-K9, AIR-AP2802E-UXK9

Cisco Aironet 802.11ac Dual Band Access Points

## 5250-5350 MHz

Against the following Specifications:

CFR47 Part 15.407

**Cisco Systems** 

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lote I Aguine

Tested By Title: Technical Leader, Engineering

Revision: 3

This report replaces any previously entered test report under EDCS –**1551998**. This test report has been electronically authorized and archived using the CISCO Engineering Document Control system.

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#### **Section 1: Overview**

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

## Specifications:

CFR47 Part 15.407

RSS247 Issue 1: May 2015 RSS-Gen Issue 4: Nov 2014

Measurements were made in accordance with

- ANSI C63.10:2013
- KDB 789033 D02 General UNII Test Procedures New Rules v01r01
- KDB 662911 D01 Multiple Transmitter Output v02r01

Radio Test Report No: EDCS -1551998



#### **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:

Emission level [dBuV] = Indicated voltage level [dBuV] + Cable Loss [dB] + 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:-

Level in uV/m = Common Antilogarithm [(X dBuV/m)/20] = Y uV/m



#### Measurement Uncertainty Values

voltage and power measurements	± 2 dB
conducted EIRP measurements	± 1.4 dB
radiated measurements	± 3.2 dB
frequency measurements	± 2.4 10-7
temperature measurements	± 0.54°
humidity measurements	± 2.3%
DC and low frequency measurements	± 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%)

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

01-Jan-16 - 03-Mar-16

#### 2.3 Report Issue Date

03-March-2016

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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**

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

#### **Test Engineers**

Jose Aguirre

2.5 Equipment Assessed (EUT)

AIR-AP3802E-B-K9



#### 2.6 EUT Description

The Cisco Aironet 802.11ac Radio supports 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 HT20, One Antenna, 6 to 54 Mbps
802.11n/ac - Non HT20, Two Antennas, 6 to 54 Mbps
802.11n/ac - Non HT20, Three Antennas, 6 to 54 Mbps
802.11n/ac - Non HT20, Four Antennas, 6 to 54 Mbps
802.11n/ac - Non HT20 Beam Forming, Two Antennas, 6 to 54 Mbps
802.11n/ac - Non HT20 Beam Forming, Three Antennas, 6 to 54 Mbps
802.11n/ac - Non HT20 Beam Forming, Four Antennas, 6 to 54 Mbps
802.11n/ac - HT/VHT20, One Antenna, M0 to M7
802.11n/ac - HT/VHT20, Two Antennas, M0 to M7
802.11n/ac - HT/VHT20, Two Antennas, M8 to M15
802.11n/ac - HT/VHT20, Three Antennas, M0 to M7
802.11n/ac - HT/VHT20, Three Antennas, M8 to M15
802.11n/ac - HT/VHT20, Three Antennas, M16 to M23
802.11n/ac - HT/VHT20, Four Antennas, M0 to M7
802.11n/ac - HT/VHT20, Four Antennas, M8 to M15
802.11n/ac - HT/VHT20, Four Antennas, M16 to M23
802.11n/ac - HT/VHT20 Beam Forming, Two Antennas, M0 to M7
802.11n/ac - HT/VHT20 Beam Forming, Two Antennas, M8 to M15
802.11n/ac - HT/VHT20 Beam Forming, Three Antennas, M0 to M7
802.11n/ac - HT/VHT20 Beam Forming, Three Antennas, M8 to M15
802.11n/ac - HT/VHT20 Beam Forming, Three Antennas, M16 to M23
802.11n/ac - HT/VHT20 Beam Forming, Four Antennas, M0 to M7
802.11n/ac - HT/VHT20 Beam Forming, Four Antennas, M8 to M15
802.11n/ac - HT/VHT20 Beam Forming, Four Antennas, M16 to M23
802.11n/ac - HT/VHT20 STBC, Two Antennas, M0 to M7
802.11n/ac - HT/VHT20 STBC, Three Antennas, M0 to M7
802.11n/ac - HT/VHT20 STBC, Four Antennas, M0 to M7
802.11n/ac - Non HT40 Duplicate, One Antenna, 6 to 54 Mbps
802.11n/ac - Non HT40 Duplicate, Two Antennas, 6 to 54 Mbps
802.11n/ac - Non HT40 Duplicate, Three Antennas, 6 to 54 Mbps
802.11n/ac - Non HT40 Duplicate, Four Antennas, 6 to 54 Mbps
802.11n/ac - HT/VHT40, One Antenna, M0 to M7
802.11n/ac - HT/VHT40, Two Antennas, M0 to M7
802.11n/ac - HT/VHT40, Two Antennas, M8 to M15
802.11n/ac - HT/VHT40, Three Antennas, M0 to M7
802.11n/ac - HT/VHT40, Three Antennas, M8 to M15
802.11n/ac - HT/VHT40, Three Antennas, M16 to M23
802.11n/ac - HT/VHT40, Four Antennas, M0 to M7
802.11n/ac - HT/VHT40, Four Antennas, M8 to M15
802.11n/ac - HT/VHT40, Four Antennas, M16 to M23
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802.11 n/ac - HT/VHT40 Beam Forming, Two Antennas, M0 to M7 802.11 n/ac - HT/VHT40 Beam Forming, Two Antennas, M8 to M15 802.11 n/ac - HT/VHT40 Beam Forming, Three Antennas, M0 to M7
802.11n/ac - HT/VHT40 Beam Forming, Three Antennas, M8 to M15
802.11n/ac - HT/VHT40 Beam Forming, Three Antennas, M16 to M23
802.11n/ac - HT/VHT40 Beam Forming, Four Antennas, M0 to M7
802.11n/ac - HT/VHT40 Beam Forming, Four Antennas, M8 to M15
802.11n/ac - HT/VHT40 Beam Forming, Four Antennas, M16 to M23
802.11n/ac - HT/VHT40 STBC, Two Antennas, M0 to M7
802.11n/ac - HT/VHT40 STBC, Three Antennas, M0 to M7
802.11n/ac - HT/VHT40 STBC, Four Antennas, M0 to M7
802.11n/ac - Non HT80 Duplicate, One Antenna, 6 to 54 Mbps
802.11n/ac - Non HT80 Duplicate, Two Antennas, 6 to 54 Mbps
802.11n/ac - Non HT80 Duplicate, Three Antennas, 6 to 54 Mbps
802.11n/ac - Non HT80 Duplicate, Four Antennas, 6 to 54 Mbps
802.11ac - VHT80, One Antenna, M0.1 to M9.1
802.11ac - VHT80, Two Antennas, M0.1 to M9.1
802.11ac - VHT80, Two Antennas, M0.2 to M9.2
802.11ac - VHT80, Three Antennas, M0.1 to M9.1
802.11ac - VHT80, Three Antennas, M0.2 to M9.2
802.11ac - VHT80, Three Antennas, M0.3 to M9.3
802.11ac - VHT80, Four Antennas, M0.1 to M9.1
802.11ac - VHT80. Four Antennas. M0.2 to M9.2
802.11ac - VHT80, Four Antennas, M0.3 to M9.3
802.11ac - VHT80 Beam Forming, Two Antennas, M0.1 to M9.1
802.11ac - VHT80 Beam Forming, Two Antennas, M0.2 to M9.2
802.11ac - VHT80 Beam Forming, Three Antennas, M0.1 to M9.1
802.11ac - VHT80 Beam Forming, Three Antennas, M0.2 to M9.2
802.11ac - VHT80 Beam Forming, Three Antennas, M0.3 to M9.3
802.11ac - VHT80 Beam Forming, Four Antennas, M0.1 to M9.1
802.11ac - VHT80 Beam Forming, Four Antennas, M0.2 to M9.2
802.11ac - VHT80 Beam Forming, Four Antennas, M0.3 to M9.3
802.11ac - VHT80 STBC, Two Antennas, M0.1 to M9.1
802.11ac - VHT80 STBC, Three Antennas, M0.1 to M9.1
802.11ac - VHT80 STBC, Four Antennas, M0.1 to M9.1
802.11n/ac - Non HT/VHT160 Duplicate, One Antenna, 6 to 54 Mbps
802.11n/ac - Non HT/VHT160 Duplicate, Two Antennas, 6 to 54 Mbps
802.11n/ac - Non HT/VHT160 Duplicate, Three Antennas, 6 to 54 Mbps
802.11n/ac - Non HT/VHT160 Duplicate, Four Antennas, 6 to 54 Mbps
802.11n/ac - HT/VHT160, One Antenna, M0 to M7
802.11n/ac - HT/VHT160, Two Antennas, M0 to M7
802.11n/ac - HT/VHT160, Two Antennas, M8 to M15
802.11n/ac - HT/VHT160, Three Antennas, M0 to M7
802.11n/ac - HT/VHT160, Three Antennas, M8 to M15
802.11n/ac - HT/VHT160, Three Antennas, M16 to M23
802.11n/ac - HT/VHT160, Four Antennas, M0 to M7
802.11n/ac - HT/VHT160, Four Antennas, M8 to M15
802.11n/ac - HT/VHT160, Four Antennas, M16 to M23
802.11n/ac - HT/VHT160 Beam Forming, Two Antennas, M0 to M7
802.11n/ac - HT/VHT160 Beam Forming, Two Antennas, M8 to M15
802.11n/ac - HT/VHT160 Beam Forming, Three Antennas, M0 to M7
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802.11n/ac - HT/VHT160 Beam Forming, Three Antennas, M8 to M15 802.11n/ac - HT/VHT160 Beam Forming, Three Antennas, M16 to M23 802.11n/ac - HT/VHT160 Beam Forming, Four Antennas, M0 to M7 802.11n/ac - HT/VHT160 Beam Forming, Four Antennas, M8 to M15 802.11n/ac - HT/VHT160 Beam Forming, Four Antennas, M16 to M23
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802.11n/ac - HT/VHT160 STBC, Two Antennas, M0 to M7 802.11n/ac - HT/VHT160 STBC, Three Antennas, M0 to M7 802.11n/ac - HT/VHT160 STBC, Four Antennas, M0 to M7

The following antennas are supported by this product series.

The data included in this report represent the worst case data for all antennas.

			Antenna Gain	Model
Frequency	Part Number	Antenna Type	(dBi)	
	AIR-ANT5140V-R	MIMO 3-Element Omni	4	3800E
		MIMO Wall-Mount Omni		3800E
5 GHz	AIR-ANT5140NV-R	Antenna	4	
	AIR-ANT5145V-R	Diversity Omni-directional	4.5	3800E
	AIR-ANT5160NP-R	MIMO 3-Element Patch	6	3800E
	AIR-ANT2451V-R	Omni	2/3	3800E
	AIR-ANT2451NV-R	Omni	3 / 4	3800E
	AIR-ANT2524DB-R	Dual-resonant black dipole	2/4	2800E/3800E
	AIR-ANT2524DW-R	Dual-resonant white dipole	2 / 4	2800E/3800E
	AIR-ANT2524DG-R	Dual-resonant gray dipole	2/4	2800E/3800E
		Dual-resonant ceiling mount		2800E/3800E
	AIR-ANT2524V4C-R	omni (4-pack)	2/4	
2.4 / 5 GHz		Dual-resonante "stubby"		2800E/3800E
	AIR-ANT2535SDW-R	monopole	3 / 5	
	AIR-ANT2544V4M-R	Dual-resonant omni (4-pack)	4 / 4	2800E/3800E
		Dual-resonant "directional"		2800E/3800E
	AIR-ANT2566P4W-R	antenna (4-pack)	6/6	
		Directional HL / Directional		2800E/3800E
	AIR-ANT25-LOC-02	WiFi	4 / 4	
	AIR-ANT25-LOC-03	Linear HL / Omni WiFi	1/3	2800E/3800E
	AIR-ANT25-LOC-04	Omni HL / Omni WiFi	1 / 3	2800E/3800E



# **Section 3: Result Summary**

## 3.1 Results Summary Table

#### **Conducted emissions**

Basic Standard	Technical Requirements / Details	Result
FCC 15.407 RSS-247	99% & 26 dB Bandwidth:  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.	Pass
FCC 15.407 RSS-247	Output Power: For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. 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.	Pass
FCC 15.407 RSS-247	Power Spectral Density: The maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.	Pass
FCC 15.407 RSS-247	Conducted Spurious Emissions / Band-Edge: For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27dBm/MHz.	Pass
FCC 15.407 RSS-247 FCC 15.209 FCC 15.205 RSS-Gen	Restricted band: Unwanted emissions must comply with the general field strength set forth in FCC 15.209.	Pass



Radiated Emissions (General requirements)

Basic Standard	Technical Requirements / Details	Result
FCC 15.407 FCC 15.209 FCC 15.205 RSS-Gen	TX Spurious Emissions:  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 RSS-Gen	AC conducted Emissions:  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

<sup>\*</sup> 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-AP3802E-B-K9	Cisco Systems	01	Linux ver 3.14.33	U-boot	FOC1945132D
S02*	PWR-CUBE-B 341-100460-001	Delta	A0	NA	NA	Engineering sample

<sup>(\*)</sup> S02 are support equipment Power supplies for EUT S01

#### 4.2 System Details

System #	Description	Samples
1	AIR-AP3802E-B-K9	S01
2	PWR-CUBE-B	S02

#### 4.3 Mode of Operation Details

Mode#	Description	Comments
1	Continuous Transmitting	Continuous Transmitting ≥98% duty cycle

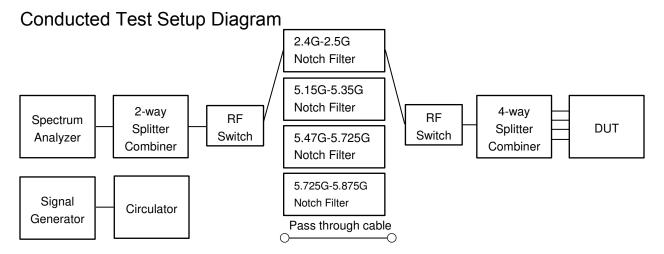
All measurements were made in accordance with

- ANSI C63.10:2013
- KDB 789033 D02 General UNII Test Procedures New Rules v01r01
- KDB 662911 D01 Multiple Transmitter Output v02r01

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## Appendix A: Emission Test Results



# **Target Maximum Channel Power**

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

	Maxi	mum Chann	el Power (d	dBm)
	Frequency (MHz)			
Operating Mode	5250			
Non HT160, 6 to 54 Mbps	14			
VHT160, M0 to M9, M0 to M9 1-0ss	18			
VHT160 Beam Forming, M0 to M9, M0 to M9 1-0ss	18			
VHT160 STBC, M0.1 to M9.1	18			
	5260	5280	5300	5320
Non HT20, 6 to 54 Mbps	18	18	18	18
Non HT20 Beam Forming, 6 to 54 Mbps	18	18	18	18
HT/VHT20, M0 to M23, M0 to M9 1-0ss	21	21	21	21
HT/VHT20 Beam Forming, M0 to M23, M0 to M9 1-0ss	21	21	21	21
HT/VHT20 STBC, M0 to M7	20	21	21	21
	5270	5310		
Non HT40, 6 to 54 Mbps	21	19		
HT/VHT40, M0 to M23, M0 to M9 1-0ss	23	22		
HT/VHT40 Beam Forming, M0 to M23, M0 to M9 1-0ss	22	22		
HT/VHT40 STBC, M0 to M7	22	22		
	5290			
Non HT80, 6 to 54 Mbps	17			
VHT80, M0 to M9, M0 to M9 1-0ss	21			
VHT80 Beam Forming, M0 to M9, M0 to M9 1-0ss	21			
VHT80 STBC, M0.1 to M9.1	21			

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# A.1 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 ≥ 3 x RBW	
Detector = Peak or where practical sample shall be used	
Trace = Max. Hold	

System Number	Description	Samples	System under test	Support equipment
4	EUT	S01	$\checkmark$	
1	Support	S02		<b>V</b>

Tested By :	Date of testing:
Jose Aguirre	01-Jan-16 - 03-Mar-16
Test Result : PASS	

See Appendix C for list of test equipment



Frequency (MHz)	Mode	Data Rate (Mbps)	26dB BW (MHz)	99% BW (MHz)
5250	Non HT160, 6 to 54 Mbps	6	164.7	155.9
5250	VHT160, M0 to M9, M0 to M9 1-0ss	m0x1	164.3	155.6
5260	Non HT20, 6 to 54 Mbps	6	22.4	18
	HT/VHT20, M0 to M23, M0 to M9 1-0ss	m0	23.1	18.3
5270	Non HT40, 6 to 54 Mbps	6	69	37.6
5270	HT/VHT40, M0 to M23, M0 to M9 1-0ss	m0	44	36.7
5290	Non HT80, 6 to 54 Mbps	6	86.4	76.3
3230	VHT80, M0 to M9, M0 to M9 1-0ss	m0x1	83.5	76.5
	[			10
5280	Non HT20, 6 to 54 Mbps	6	22.3	18
	HT/VHT20, M0 to M23, M0 to M9 1-0ss	m0	23.2	18.3
<b>5</b> 200	Non HT20, 6 to 54 Mbps	6	24.7	18
5300	HT/VHT20, M0 to M23, M0 to M9 1-0ss	m0	22.9	18.3
			_	_
5310	Non HT40, 6 to 54 Mbps	6	47.4	36.9
3310	HT/VHT40, M0 to M23, M0 to M9 1-0ss	m0	43.2	36.5
	Non-UT20, Cata F4 Mbras		22.2	10.0
5320	Non HT20, 6 to 54 Mbps	6	23.2	18.0
	HT/VHT20, M0 to M23, M0 to M9 1-0ss	m0	23.7	18.3







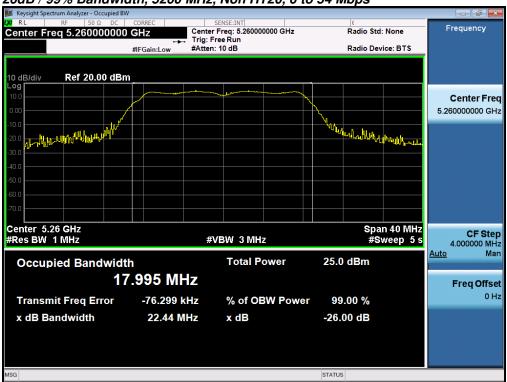
# 26dB / 99% Bandwidth, 5250 MHz, VHT160, M0 to M9, M0 to M9 1-0ss



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# 26dB / 99% Bandwidth, 5260 MHz, HT/VHT20, M0 to M23, M0 to M9 1-0ss



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# 26dB / 99% Bandwidth, 5270 MHz, HT/VHT40, M0 to M23, M0 to M9 1-0ss



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# 26dB / 99% Bandwidth, 5290 MHz, VHT80, M0 to M9, M0 to M9 1-0ss



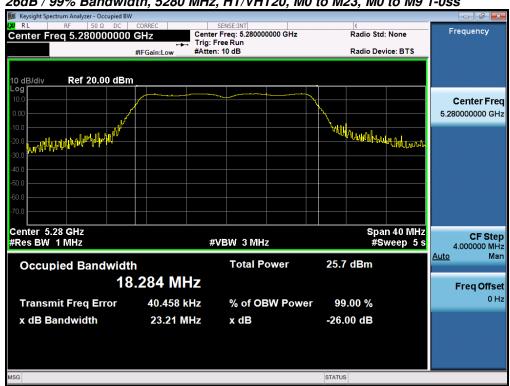
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## 26dB / 99% Bandwidth, 5280 MHz, HT/VHT20, M0 to M23, M0 to M9 1-0ss



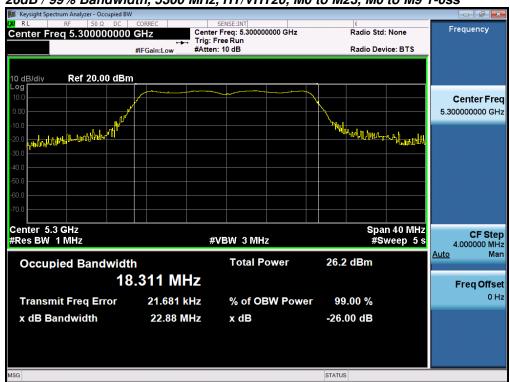
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# 26dB / 99% Bandwidth, 5300 MHz, HT/VHT20, M0 to M23, M0 to M9 1-0ss



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# 26dB / 99% Bandwidth, 5310 MHz, HT/VHT40, M0 to M23, M0 to M9 1-0ss



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# 26dB / 99% Bandwidth, 5320 MHz, HT/VHT20, M0 to M23, M0 to M9 1-0ss



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

**15.407** (2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

**15.407** (5) The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

#### **Test Procedure**

Ref. KDB 789033 D02 General UNII Test Procedures New Rules v01r01 ANSI C63.10: 2013

#### **Output Power**

Test Procedure

- 1. Set the radio in the continuous transmitting mode at full power
- 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.
- 3. Capture graphs and record pertinent measurement data.

Ref. KDB 789033 D02 General UNII Test Procedures New Rules v01r01 ANSI C63.10: 2013 section 12.3.2.2 Method SA-1

Output	Power
--------	-------

Test parameters

Span = >1.5 times the OBW

RBW = 1MHz

VBW ≥ 3 x RBW

Sweep = Auto couple

Detector = sample

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
4	EUT	S01	$\checkmark$	
1	Support	S02		$\checkmark$

Tested By :	Date of testing:
Jose Aguirre	01-Jan-16 - 03-Mar-16
Test Result : PASS	

See Appendix C for list of test equipment

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Radio Test Report No: EDCS -1551998



Referencing "644545 D03 Guidance for IEEE 802.11ac v01", covering signals that cross the boundary between two adjacent UNII bands, the FCC describes a procedure to measure EBW, power, and PSD in each UNII band. For the case of a 160MHz signal equally distributed between UNII-1 and UNII-2a, we apply the following alternate procedure.

#### Rather than measure:

- The half of the signal in UNII-1, measured against the 30dBm power / 17dBm/MHz PSD limits
- The half of the signal in UNII-2a, measured against the 24dBm power / 11dBm/MHz PSD limits

If a 160MHz signal (equally distributed between the two bands) produces a total power of 27dBm across the entire 160 MHz EBW, the total power in each band would be half of the total, or 24dBm (which meets both the UNII-1 and UNII-2a limits), and would have a PSD no greater than 11dBm/MHz in either sub-band.

Given these facts, we have measured the complete 160 MHz EBW (across both sub-bands) against 27dBm power and 11dBm/MHz PSD limits, rather than individual sub band measurements against the individual sub band limits.



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)
	Non HT160, 6 to 54 Mbps	1	6	11.7				11.7	24.0	12.3
	Non HT160, 6 to 54 Mbps	2	6	10.7	10.2			13.5	24.0	10.5
	Non HT160, 6 to 54 Mbps	3	6	9.7	9.2	9.4		14.2	24.0	9.8
	Non HT160, 6 to 54 Mbps	4	6	8.8	8.3	8.4	8.4	14.5	24.0	9.5
	VHT160, M0.1 to M9.1	1	6	15.4				15.4	24.0	8.6
	VHT160, M0.1 to M9.1	2	6	14.2	13.7			17.0	24.0	7.0
	VHT160, M0.2 to M9.2	2	6	14.2	13.7			17.0	24.0	7.0
	VHT160, M0.1 to M9.1	3	6	13.2	12.8	13.2		17.8	24.0	6.2
	VHT160, M0.2 to M9.2	3	6	13.2	12.8	13.2		17.8	24.0	6.2
	VHT160, M0.3 to M9.3	3	6	13.2	12.8	13.2		17.8	24.0	6.2
	VHT160, M0.1 to M9.1	4	6	12.3	11.8	12.1	12.0	18.1	24.0	5.9
5250	VHT160, M0.2 to M9.2	4	6	12.3	11.8	12.1	12.0	18.1	24.0	5.9
52	VHT160, M0.3 to M9.3	4	6	12.3	11.8	12.1	12.0	18.1	24.0	5.9
	VHT160 Beam Forming, M0.1 to M9.1	2	6	14.2	13.7			17.0	24.0	7.0
	VHT160 Beam Forming, M0.2 to M9.2	2	6	14.2	13.7			17.0	24.0	7.0
	VHT160 Beam Forming, M0.1 to M9.1	3	6	13.2	12.8	13.2		17.8	24.0	6.2
	VHT160 Beam Forming, M0.2 to M9.2	3	6	13.2	12.8	13.2		17.8	24.0	6.2
	VHT160 Beam Forming, M0.3 to M9.3	3	6	13.2	12.8	13.2		17.8	24.0	6.2
	VHT160 Beam Forming, M0.1 to M9.1	4	6	12.3	11.8	12.1	12.0	18.1	24.0	5.9
	VHT160 Beam Forming, M0.2 to M9.2	4	6	12.3	11.8	12.1	12.0	18.1	24.0	5.9
	VHT160 Beam Forming, M0.3 to M9.3	4	6	12.3	11.8	12.1	12.0	18.1	24.0	5.9
	VHT160 STBC, M0.1 to M9.1	2	6	14.2	13.7			17.0	24.0	7.0
	VHT160 STBC, M0.1 to M9.1	3	6	13.2	12.8	13.2		17.8	24.0	6.2
	VHT160 STBC, M0.1 to M9.1	4	6	12.3	11.8	12.1	12.0	18.1	24.0	5.9
	Non HT20, 6 to 54 Mbps	1	6	17.1				17.1	23.5	6.4
	Non HT20, 6 to 54 Mbps	2	6	14.8	14.7			17.8	23.2	5.4
	Non HT20, 6 to 54 Mbps	3	6	10.6	10.7	11.8		15.8	23.1	7.3
	Non HT20, 6 to 54 Mbps	4	6	8.6	8.8	9.7	9.5	15.2	23.4	8.2
5260	Non HT20 Beam Forming, 6 to 54 Mbps	2	9	14.8	14.7			17.8	20.2	2.4
5	Non HT20 Beam Forming, 6 to 54 Mbps	3	11	10.6	10.7	11.8		15.8	18.3	2.5
	Non HT20 Beam Forming, 6 to 54 Mbps	4	12	8.6	8.8	9.7	9.5	15.2	17.4	2.2
	HT/VHT20, M0 to M7	1	6	17.2				17.2	24.0	6.8
	HT/VHT20, M0 to M7	2	6	14.9	14.8			17.9	23.4	5.5

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	HT/VHT20, M8 to M15	2	6	17.2	17.1			20.2	23.4	3.2
	HT/VHT20, M0 to M7	3	6	11.8	11.8	13.0		17.0	23.4	6.4
	HT/VHT20, M8 to M15	3	6	14.8	14.8	15.3		19.7	23.4	3.7
	HT/VHT20, M16 to M23	3	6	16.1	16.0	17.4		21.3	23.4	2.1
	HT/VHT20, M0 to M7	4	6	8.8	9.0	9.9	9.7	15.4	23.4	8.0
	HT/VHT20, M8 to M15	4	6	11.8	11.8	13.0	13.0	18.5	23.4	4.9
	HT/VHT20, M16 to M23	4	6	13.7	13.8	13.9	14.0	19.9	23.1	3.2
	HT/VHT20 Beam Forming, M0 to M7	2	9	14.9	14.8			17.9	20.4	2.5
	HT/VHT20 Beam Forming, M8 to M15	2	6	17.2	17.1			20.2	23.4	3.2
	HT/VHT20 Beam Forming, M0 to M7	3	11	11.8	11.8	13.0		17.0	18.6	1.6
	HT/VHT20 Beam Forming, M8 to M15	3	8	14.8	14.8	15.3		19.7	21.6	1.9
	HT/VHT20 Beam Forming, M16 to M23	3	6	16.1	16.0	17.4		21.3	23.4	2.1
	HT/VHT20 Beam Forming, M0 to M7	4	12	8.8	9.0	9.9	9.7	15.4	17.4	2.0
	HT/VHT20 Beam Forming, M8 to M15	4	9	11.8	11.8	13.0	13.0	18.5	20.4	1.9
	HT/VHT20 Beam Forming, M16 to M23	4	7	13.7	13.8	13.9	14.0	19.9	21.9	2.0
	HT/VHT20 STBC, M0 to M7	2	6	17.2	17.1			20.2	23.4	3.2
	HT/VHT20 STBC, M0 to M7	3	6	14.8	14.8	15.3		19.7	23.4	3.7
	HT/VHT20 STBC, M0 to M7	4	6	11.8	11.8	13.0	13.0	18.5	23.4	4.9
			_	_	_	_	_	_	_	_
	Non HT40, 6 to 54 Mbps	1	6	18.5				18.5	24.0	5.5
	Non HT40, 6 to 54 Mbps	2	6	18.5	18.3			21.4	24.0	2.6
	Non HT40, 6 to 54 Mbps	3	6	13.8	13.6	14.8		18.9	24.0	5.1
	Non HT40, 6 to 54 Mbps	4	6	12.0	11.9	11.7	13.0	18.2	23.2	5.0
	HT/VHT40, M0 to M7	1	6	17.3				17.3	24.0	6.7
	HT/VHT40, M0 to M7	2	6	17.3	16.9			20.1	23.2	3.1
	HT/VHT40, M8 to M15	2	6	17.3	16.9			20.1	23.2	3.1
	HT/VHT40, M0 to M7	3	6	14.9	14.6	14.8		19.5	23.6	4.1
	HT/VHT40, M8 to M15	3	6	17.3	16.9	17.9		22.2	23.2	1.0
	HT/VHT40, M16 to M23	3	6	17.3	16.9	17.9		22.2	23.2	1.0
5270	HT/VHT40, M0 to M7	4	6	11.7	11.6	12.6	12.8	18.2	23.1	4.9
52	HT/VHT40, M8 to M15	4	6	15.0	14.6	15.9	16.0	21.4	24.0	2.6
	HT/VHT40, M16 to M23	4	6	16.2	15.8	16.9	17.0	22.5	23.2	0.7
	HT/VHT40 Beam Forming, M0 to M7	2	9	17.3	16.9			20.1	20.2	0.1
	HT/VHT40 Beam Forming, M8 to M15	2	6	17.3	16.9			20.1	23.2	3.1
	HT/VHT40 Beam Forming, M0 to M7	3	11	13.6	13.5	13.5		18.3	18.4	0.1
	HT/VHT40 Beam Forming, M8 to M15	3	8	16.2	15.8	16.9		21.1	21.4	0.3
	HT/VHT40 Beam Forming, M16 to M23	3	6	17.3	16.9	17.9		22.2	23.2	1.0
	HT/VHT40 Beam Forming, M0 to M7	4	12	10.8	10.6	11.6	11.8	17.3	17.6	0.3
	HT/VHT40 Beam Forming, M8 to M15	4	9	13.6	13.5	13.5	14.8	19.9	20.2	0.3
	HT/VHT40 Beam Forming, M16 to M23	4	7	15.0	14.6	15.9	16.0	21.4	22.8	1.4
	HT/VHT40 STBC, M0 to M7	2	6	17.3	16.9			20.1	23.2	3.1

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	HT/VHT40 STBC, M0 to M7	3	6	17.3	16.9	17.9		22.2	23.2	1.0
	HT/VHT40 STBC, M0 to M7	4	6	15.0	14.6	15.9	16.0	21.4	24.0	2.6
			_	_	_	_	_	-	_	-
	Non HT80, 6 to 54 Mbps	1	6	16.0				16.0	24.0	8.0
	Non HT80, 6 to 54 Mbps	2	6	13.5	12.9			16.2	24.0	7.8
	Non HT80, 6 to 54 Mbps	3	6	12.3	11.9	12.5		17.0	24.0	7.0
	Non HT80, 6 to 54 Mbps	4	6	11.4	10.9	11.2	11.8	17.4	24.0	6.6
	VHT80, M0.1 to M9.1	1	6	17.5				17.5	24.0	6.5
	VHT80, M0.1 to M9.1	2	6	17.5	16.9			20.2	24.0	3.8
	VHT80, M0.2 to M9.2	2	6	17.5	16.9			20.2	24.0	3.8
	VHT80, M0.1 to M9.1	3	6	16.4	15.8	16.3		20.9	24.0	3.1
	VHT80, M0.2 to M9.2	3	6	16.4	15.8	16.3		20.9	24.0	3.1
	VHT80, M0.3 to M9.3	3	6	16.4	15.8	16.3		20.9	24.0	3.1
	VHT80, M0.1 to M9.1	4	6	13.9	13.5	12.9	14.6	19.8	24.0	4.2
5290	VHT80, M0.2 to M9.2	4	6	13.9	13.5	12.9	14.6	19.8	24.0	4.2
52	VHT80, M0.3 to M9.3	4	6	13.9	13.5	12.9	14.6	19.8	24.0	4.2
	VHT80 Beam Forming, M0.1 to M9.1	2	6	17.5	16.9			20.2	24.0	3.8
	VHT80 Beam Forming, M0.2 to M9.2	2	6	17.5	16.9			20.2	24.0	3.8
	VHT80 Beam Forming, M0.1 to M9.1	3	6	15.1	14.6	14.1		19.4	24.0	4.6
	VHT80 Beam Forming, M0.2 to M9.2	3	6	16.4	15.8	16.3		20.9	24.0	3.1
	VHT80 Beam Forming, M0.3 to M9.3	3	6	16.4	15.8	16.3		20.9	24.0	3.1
	VHT80 Beam Forming, M0.1 to M9.1	4	6	12.9	12.6	13.0	13.5	19.0	24.0	5.0
	VHT80 Beam Forming, M0.2 to M9.2	4	6	13.9	13.5	12.9	14.6	19.8	24.0	4.2
	VHT80 Beam Forming, M0.3 to M9.3	4	6	13.9	13.5	12.9	14.6	19.8	24.0	4.2
	VHT80 STBC, M0.1 to M9.1	2	6	17.5	16.9			20.2	24.0	3.8
	VHT80 STBC, M0.1 to M9.1	3	6	16.4	15.8	16.3		20.9	24.0	3.1
	VHT80 STBC, M0.1 to M9.1	4	6	13.9	13.5	12.9	14.6	19.8	24.0	4.2
	Non HT20, 6 to 54 Mbps	1	6	17.5				17.5	23.6	6.1
	Non HT20, 6 to 54 Mbps	2	6	15.2	14.8			18.0	23.6	5.6
	Non HT20, 6 to 54 Mbps	3	6	11.1	10.9	11.3		15.9	23.6	7.7
	Non HT20, 6 to 54 Mbps	4	6	9.1	9.0	9.2	9.8	15.3	23.6	8.3
	Non HT20 Beam Forming, 6 to 54 Mbps	2	9	15.2	14.8			18.0	20.6	2.6
	Non HT20 Beam Forming, 6 to 54 Mbps	3	11	11.1	10.9	11.3		15.9	18.8	2.9
5280	Non HT20 Beam Forming, 6 to 54 Mbps	4	12	9.1	9.0	9.2	9.8	15.3	17.6	2.3
7	HT/VHT20, M0 to M7	1	6	17.7				17.7	23.6	5.9
	HT/VHT20, M0 to M7	2	6	15.3	14.9			18.1	23.6	5.5
	HT/VHT20, M8 to M15	2	6	17.7	17.2			20.5	23.6	3.1
	HT/VHT20, M0 to M7	3	6	12.1	12.0	12.5		17.0	23.6	6.6
	HT/VHT20, M8 to M15	3	6	14.1	13.9	13.3		18.6	23.6	5.0
	HT/VHT20, M16 to M23	3	6	16.5	16.1	16.8		21.2	23.6	2.4

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	HT/VHT20, M0 to M7	4	6	9.2	9.1	9.3	9.9	15.4	23.6	8.2
	HT/VHT20, M8 to M15	4	6	12.1	12.0	12.5	13.3	18.5	23.6	5.1
	HT/VHT20, M16 to M23	4	6	14.1	13.9	13.3	14.3	19.9	23.6	3.7
	HT/VHT20 Beam Forming, M0 to M7	2	9	15.3	14.9			18.1	20.6	2.5
	HT/VHT20 Beam Forming, M8 to M15	2	6	17.7	17.2			20.5	23.6	3.1
	HT/VHT20 Beam Forming, M0 to M7	3	11	12.1	12.0	12.5		17.0	18.8	1.8
	HT/VHT20 Beam Forming, M8 to M15	3	8	14.1	13.9	13.3		18.6	21.8	3.2
	HT/VHT20 Beam Forming, M16 to M23	3	6	16.5	16.1	16.8		21.2	23.6	2.4
	HT/VHT20 Beam Forming, M0 to M7	4	12	9.2	9.1	9.3	9.9	15.4	17.6	2.2
	HT/VHT20 Beam Forming, M8 to M15	4	9	12.1	12.0	12.5	13.3	18.5	20.6	2.1
	HT/VHT20 Beam Forming, M16 to M23	4	7	14.1	13.9	13.3	14.3	19.9	22.4	2.5
	HT/VHT20 STBC, M0 to M7	2	6	17.7	17.2			20.5	23.6	3.1
	HT/VHT20 STBC, M0 to M7	3	6	14.1	13.9	13.3		18.6	23.6	5.0
	HT/VHT20 STBC, M0 to M7	4	6	12.1	12.0	12.5	13.3	18.5	23.6	5.1
	Non HT20, 6 to 54 Mbps	1	6	18.0				18.0	24.0	6.0
	Non HT20, 6 to 54 Mbps	2	6	15.7	15.1			18.4	24.0	5.6
	Non HT20, 6 to 54 Mbps	3	6	11.6	11.2	10.7		16.0	23.4	7.4
	Non HT20, 6 to 54 Mbps	4	6	9.7	9.3	8.7	9.6	15.4	23.4	8.0
	Non HT20 Beam Forming, 6 to 54 Mbps	2	9	15.7	15.1			18.4	21.0	2.6
	Non HT20 Beam Forming, 6 to 54 Mbps	3	11	11.6	11.2	10.7		16.0	18.6	2.6
	Non HT20 Beam Forming, 6 to 54 Mbps	4	12	9.7	9.3	8.7	9.6	15.4	17.4	2.0
	HT/VHT20, M0 to M7	1	6	18.2				18.2	24.0	5.8
	HT/VHT20, M0 to M7	2	6	15.7	15.2			18.5	24.0	5.5
	HT/VHT20, M8 to M15	2	6	18.2	17.5			20.9	24.0	3.1
	HT/VHT20, M0 to M7	3	6	11.8	11.4	10.9		16.2	23.4	7.2
	HT/VHT20, M8 to M15	3	6	15.7	15.2	14.1		19.8	24.0	4.2
8	HT/VHT20, M16 to M23	3	6	17.0	16.4	16.3		21.3	23.4	2.1
5300	HT/VHT20, M0 to M7	4	6	9.8	9.5	8.8	9.9	15.5	23.4	7.9
	HT/VHT20, M8 to M15	4	6	12.8	12.4	12.0	13.2	18.6	23.4	4.8
	HT/VHT20, M16 to M23	4	6	14.7	14.3	12.8	14.2	20.1	23.1	3.0
	HT/VHT20 Beam Forming, M0 to M7	2	9	15.7	15.2			18.5	21.0	2.5
	HT/VHT20 Beam Forming, M8 to M15	2	6	18.2	17.5			20.9	24.0	3.1
	HT/VHT20 Beam Forming, M0 to M7	3	11	11.8	11.4	10.9		16.2	18.6	2.4
	HT/VHT20 Beam Forming, M8 to M15	3	8	15.7	15.2	14.1		19.8	22.2	2.4
	HT/VHT20 Beam Forming, M16 to M23	3	6	17.0	16.4	16.3		21.3	23.4	2.1
	HT/VHT20 Beam Forming, M0 to M7	4	12	9.8	9.5	8.8	9.9	15.5	17.4	1.9
	HT/VHT20 Beam Forming, M8 to M15	4	9	12.8	12.4	12.0	13.2	18.6	20.4	1.8
	HT/VHT20 Beam Forming, M16 to M23	4	7	14.7	14.3	12.8	14.2	20.1	21.9	1.8
	HT/VHT20 STBC, M0 to M7	2	6	18.2	17.5			20.9	24.0	3.1
	HT/VHT20 STBC, M0 to M7	3	6	15.7	15.2	14.1		19.8	24.0	4.2

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	HT/VHT20 STBC, M0 to M7	4	6	12.8	12.4	12.0	13.2	18.6	23.4	4.8
				_			_		_	
	Non HT40, 6 to 54 Mbps	1	6	15.7				15.7	24.0	8.3
	Non HT40, 6 to 54 Mbps	2	6	15.7	15.1			18.4	24.0	5.6
	Non HT40, 6 to 54 Mbps	3	6	14.5	14.0	13.7		18.9	24.0	5.1
	Non HT40, 6 to 54 Mbps	4	6	12.7	12.3	10.5	12.7	18.2	24.0	5.8
	HT/VHT40, M0 to M7	1	6	18.0				18.0	24.0	6.0
	HT/VHT40, M0 to M7	2	6	18.0	17.4			20.7	24.0	3.3
	HT/VHT40, M8 to M15	2	6	18.0	17.4			20.7	24.0	3.3
	HT/VHT40, M0 to M7	3	6	15.6	15.1	13.7		19.6	24.0	4.4
	HT/VHT40, M8 to M15	3	6	18.0	17.4	16.8		22.2	24.0	1.8
	HT/VHT40, M16 to M23	3	6	18.0	17.4	16.8		22.2	24.0	1.8
	HT/VHT40, M0 to M7	4	6	12.5	12.1	11.5	12.5	18.2	24.0	5.8
10	HT/VHT40, M8 to M15	4	6	15.7	15.0	14.8	15.7	21.3	24.0	2.7
5310	HT/VHT40, M16 to M23	4	6	15.7	15.0	14.8	15.7	21.3	24.0	2.7
	HT/VHT40 Beam Forming, M0 to M7	2	9	18.0	17.4			20.7	21.0	0.3
	HT/VHT40 Beam Forming, M8 to M15	2	6	18.0	17.4			20.7	24.0	3.3
	HT/VHT40 Beam Forming, M0 to M7	3	11	14.4	14.0	12.4		18.5	19.2	0.7
	HT/VHT40 Beam Forming, M8 to M15	3	8	15.7	15.0	14.8		20.0	22.2	2.2
	HT/VHT40 Beam Forming, M16 to M23	3	6	18.0	17.4	16.8		22.2	24.0	1.8
	HT/VHT40 Beam Forming, M0 to M7	4	12	11.6	11.1	10.5	11.5	17.2	18.0	0.8
	HT/VHT40 Beam Forming, M8 to M15	4	9	14.4	14.0	12.4	14.6	20.0	21.0	1.0
	HT/VHT40 Beam Forming, M16 to M23	4	7	15.6	15.1	13.7	14.5	20.8	22.8	2.0
	HT/VHT40 STBC, M0 to M7	2	6	18.0	17.4			20.7	24.0	3.3
	HT/VHT40 STBC, M0 to M7	3	6	18.0	17.4	16.8		22.2	24.0	1.8
	HT/VHT40 STBC, M0 to M7	4	6	15.7	15.0	14.8	15.7	21.3	24.0	2.7
	Non HT20, 6 to 54 Mbps	1	6	17.8				17.8	23.6	5.8
	Non HT20, 6 to 54 Mbps	2	6	15.5	15.1			18.3	23.6	5.3
	Non HT20, 6 to 54 Mbps	3	6	12.5	12.2	11.2		16.8	23.6	6.8
	Non HT20, 6 to 54 Mbps	4	6	9.6	9.3	8.1	9.1	15.1	23.6	8.5
	Non HT20 Beam Forming, 6 to 54 Mbps	2	9	15.5	15.1			18.3	20.6	2.3
	Non HT20 Beam Forming, 6 to 54 Mbps	3	11	12.5	12.2	11.2		16.8	18.8	2.0
20	Non HT20 Beam Forming, 6 to 54 Mbps	4	12	9.6	9.3	8.1	9.1	15.1	17.6	2.5
5320	HT/VHT20, M0 to M7	1	6	18.0				18.0	23.6	5.6
	HT/VHT20, M0 to M7	2	6	15.7	15.3			18.5	23.6	5.1
	HT/VHT20, M8 to M15	2	6	18.0	17.6			20.8	23.6	2.8
	HT/VHT20, M0 to M7	3	6	11.7	11.4	10.3		15.9	23.6	7.7
	HT/VHT20, M8 to M15	3	6	15.7	15.3	13.6		19.7	23.6	3.9
	HT/VHT20, M16 to M23	3	6	16.8	16.5	15.7		21.1	23.6	2.5
	HT/VHT20, M0 to M7	4	6	9.7	9.6	8.2	9.2	15.2	23.6	8.4

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HT/VHT20, M8 to M15	4	6	12.6	12.3	11.3	12.6	18.3	23.6	5.3
HT/VHT20, M16 to M23	4	6	14.6	14.3	12.2	13.5	19.8	23.6	3.8
HT/VHT20 Beam Forming, M0 to M7	2	9	15.7	15.3			18.5	20.6	2.1
HT/VHT20 Beam Forming, M8 to M15	2	6	18.0	17.6			20.8	23.6	2.8
HT/VHT20 Beam Forming, M0 to M7	3	11	11.7	11.4	10.3		15.9	18.8	2.9
HT/VHT20 Beam Forming, M8 to M15	3	8	15.7	15.3	13.6		19.7	21.8	2.1
HT/VHT20 Beam Forming, M16 to M23	3	6	16.8	16.5	15.7		21.1	23.6	2.5
HT/VHT20 Beam Forming, M0 to M7	4	12	9.7	9.6	8.2	9.2	15.2	17.6	2.4
HT/VHT20 Beam Forming, M8 to M15	4	9	12.6	12.3	11.3	12.6	18.3	20.6	2.3
HT/VHT20 Beam Forming, M16 to M23	4	7	14.6	14.3	12.2	13.5	19.8	22.4	2.6
HT/VHT20 STBC, M0 to M7	2	6	18.0	17.6			20.8	23.6	2.8
HT/VHT20 STBC, M0 to M7	3	6	15.7	15.3	13.6		19.7	23.6	3.9
HT/VHT20 STBC, M0 to M7	4	6	12.6	12.3	11.3	12.6	18.3	23.6	5.3

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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)
	Non HT160, 6 to 54 Mbps	1	6	-7.4				-7.4	11.0	18.4
	Non HT160, 6 to 54 Mbps	2	9	-8.4	-8.9			-5.6	8.0	13.6
	Non HT160, 6 to 54 Mbps	3	11	-9.1	-9.9	-9.9		-4.8	6.0	10.8
	Non HT160, 6 to 54 Mbps	4	12	-10.3	-11.0	-11.0	-11.5	-4.9	5.0	9.9
	VHT160, M0 to M9 1ss	1	6	-4.4				-4.4	11.0	15.4
	VHT160, M0 to M9 1ss	2	9	-5.5	-6.1			-2.8	8.0	10.8
	VHT160, M0 to M9 2ss	2	6	-5.5	-6.1			-2.8	11.0	13.8
	VHT160, M0 to M9 1ss	3	11	-6.4	-7.0	-6.6		-1.9	6.0	7.9
	VHT160, M0 to M9 2ss	3	8	-6.4	-7.0	-6.6		-1.9	9.0	10.9
	VHT160, M0 to M9 3ss	3	6	-6.4	-7.0	-6.6		-1.9	11.0	12.9
	VHT160, M0 to M9 1ss	4	12	-7.6	-7.9	-7.7	-8.3	-1.8	5.0	6.8
5250	VHT160, M0 to M9 2ss	4	9	-7.6	-7.9	-7.7	-8.3	-1.8	8.0	9.8
52	VHT160, M0 to M9 3ss	4	7	-7.6	-7.9	-7.7	-8.3	-1.8	10.0	11.8
	VHT160 Beam Forming, M0 to M9 1ss	2	9	-6.4	-7.0			-3.7	8.0	11.7
	VHT160 Beam Forming, M0 to M9 2ss	2	6	-5.5	-6.1			-2.8	11.0	13.8
	VHT160 Beam Forming, M0 to M9 1ss	3	11	-9.4	-9.8	-9.6		-4.8	6.0	10.8
	VHT160 Beam Forming, M0 to M9 2ss	3	8	-7.6	-7.9	-7.7		-3.0	9.0	12.0
	VHT160 Beam Forming, M0 to M9 3ss	3	6	-6.4	-7.0	-6.6		-1.9	11.0	12.9
	VHT160 Beam Forming, M0 to M9 1ss	4	12	-10.4	-10.8	-10.9	-11.2	-4.8	5.0	9.8
	VHT160 Beam Forming, M0 to M9 2ss	4	9	-9.4	-9.8	-9.6	-10.4	-3.8	8.0	11.8
	VHT160 Beam Forming, M0 to M9 3ss	4	7	-7.6	-7.9	-7.7	-8.3	-1.8	10.0	11.8
	VHT160 STBC, M0 to M9 1ss	2	6	-5.5	-6.1			-2.8	11.0	13.8
	VHT160 STBC, M0 to M9 1ss	3	6	-6.4	-7.0	-6.6		-1.9	11.0	12.9
	VHT160 STBC, M0 to M9 1ss	4	6	-7.6	-7.9	-7.7	-8.3	-1.8	11.0	12.8
	Non HT20, 6 to 54 Mbps	1	6	6.6				6.6	11.0	4.4
	Non HT20, 6 to 54 Mbps	2	9	4.1	4.6			7.4	8.0	0.6
	Non HT20, 6 to 54 Mbps	3	11	0.4	0.1	1.1		5.3	6.0	0.7
0	Non HT20, 6 to 54 Mbps	4	12	-2.1	-1.4	-0.7	-0.7	4.8	5.0	0.2
5260	Non HT20 Beam Forming, 6 to 54 Mbps	2	9	4.1	4.6			7.4	8.0	0.6
۱)	Non HT20 Beam Forming, 6 to 54 Mbps	3	11	0.4	0.1	1.1		5.3	6.0	0.7
	Non HT20 Beam Forming, 6 to 54 Mbps	4	12	-2.1	-1.4	-0.7	-0.7	4.8	5.0	0.2
	HT/VHT20, M0 to M7	1	6	6.3				6.3	11.0	4.7
	HT/VHT20, M0 to M7	2	9	4.2	4.1			7.2	8.0	0.8

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	HT/VHT20, M8 to M15	2	6	6.3	6.3			9.3	11.0	1.7
	HT/VHT20, M0 to M7	3	11	0.0	0.3	1.0		5.2	6.0	0.8
	HT/VHT20, M8 to M15	3	8	4.0	3.9	4.3		8.8	9.0	0.2
	HT/VHT20, M16 to M23	3	6	5.3	5.4	7.1		10.8	11.0	0.2
	HT/VHT20, M0 to M7	4	12	-1.7	-1.9	-0.9	-1.2	4.6	5.0	0.4
	HT/VHT20, M8 to M15	4	9	0.8	1.3	2.0	2.2	7.6	8.0	0.4
	HT/VHT20, M16 to M23	4	7	2.9	2.9	3.1	3.2	9.0	10.0	1.0
	HT/VHT20 Beam Forming, M0 to M7	2	9	4.2	4.1			7.2	8.0	0.8
	HT/VHT20 Beam Forming, M8 to M15	2	6	6.3	6.3			9.3	11.0	1.7
	HT/VHT20 Beam Forming, M0 to M7	3	11	0.0	0.3	1.0		5.2	6.0	0.8
	HT/VHT20 Beam Forming, M8 to M15	3	8	4.0	3.9	4.3		8.8	9.0	0.2
	HT/VHT20 Beam Forming, M16 to M23	3	6	5.3	5.4	7.1		10.8	11.0	0.2
	HT/VHT20 Beam Forming, M0 to M7	4	12	-1.7	-1.9	-0.9	-1.2	4.6	5.0	0.4
	HT/VHT20 Beam Forming, M8 to M15	4	9	0.8	1.3	2.0	2.2	7.6	8.0	0.4
	HT/VHT20 Beam Forming, M16 to M23	4	7	2.9	2.9	3.1	3.2	9.0	10.0	1.0
	HT/VHT20 STBC, M0 to M7	2	6	6.3	6.3			9.3	11.0	1.7
	HT/VHT20 STBC, M0 to M7	3	8	4.0	3.9	4.3		8.8	9.0	0.2
	HT/VHT20 STBC, M0 to M7	4	9	0.8	1.3	2.0	2.2	7.6	8.0	0.4
			_	_	_	_	_	_	_	_
	Non HT40, 6 to 54 Mbps	1	6	5.0				5.0	11.0	6.0
	Non HT40, 6 to 54 Mbps	2	9	5.0	4.8			7.9	8.0	0.1
	Non HT40, 6 to 54 Mbps	3	11	0.7	0.4	1.3		5.6	6.0	0.4
	Non HT40, 6 to 54 Mbps	4	12	-1.2	-1.5	-1.3	-0.5	4.9	5.0	0.1
	HT/VHT40, M0 to M7	1	6	4.1				4.1	11.0	6.9
	HT/VHT40, M0 to M7	2	9	4.1	3.2			6.7	8.0	1.3
	HT/VHT40, M8 to M15	2	6	4.1	3.2			6.7	11.0	4.3
	HT/VHT40, M0 to M7	3	11	1.3	0.6	1.1		5.8	6.0	0.2
	HT/VHT40, M8 to M15	3	8	4.1	3.2	4.2		8.6	9.0	0.4
	HT/VHT40, M16 to M23	3	6	4.1	3.2	4.2		8.6	11.0	2.4
20	HT/VHT40, M0 to M7	4	12	-1.9	-2.3	-1.1	-1.2	4.4	5.0	0.6
5270	HT/VHT40, M8 to M15	4	9	1.3	0.8	2.7	2.3	7.9	8.0	0.1
	HT/VHT40, M16 to M23	4	7	2.7	2.0	3.4	3.3	8.9	10.0	1.1
	HT/VHT40 Beam Forming, M0 to M7	2	9	4.1	3.2			6.7	8.0	1.3
	HT/VHT40 Beam Forming, M8 to M15	2	6	4.1	3.2			6.7	11.0	4.3
	HT/VHT40 Beam Forming, M0 to M7	3	11	-0.9	-1.3	0.1		4.1	6.0	1.9
	HT/VHT40 Beam Forming, M8 to M15	3	8	2.7	2.0	3.4		7.5	9.0	1.5
	HT/VHT40 Beam Forming, M16 to M23	3	6	4.1	3.2	4.2		8.6	11.0	2.4
	HT/VHT40 Beam Forming, M0 to M7	4	12	-2.7	-3.2	-2.1	-2.2	3.5	5.0	1.5
	HT/VHT40 Beam Forming, M8 to M15	4	9	-0.2	-0.5	-0.4	1.0	6.0	8.0	2.0
	HT/VHT40 Beam Forming, M16 to M23	4	7	1.3	0.8	2.7	2.3	7.9	10.0	2.1
	HT/VHT40 STBC, M0 to M7	2	6	4.1	3.2			6.7	11.0	4.3

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	HT/VHT40 STBC, M0 to M7	3	8	4.1	3.2	4.2		8.6	9.0	0.4
	HT/VHT40 STBC, M0 to M7	4	9	1.3	0.8	2.7	2.3	7.9	8.0	0.1
			-	_	_	_	_	_	_	_
	Non HT80, 6 to 54 Mbps	1	6	-0.4				-0.4	11.0	11.4
	Non HT80, 6 to 54 Mbps	2	9	-3.3	-3.8			-0.5	8.0	8.5
	Non HT80, 6 to 54 Mbps	3	11	-4.3	-5.0	-4.1		0.3	6.0	5.7
	Non HT80, 6 to 54 Mbps	4	12	-5.1	-5.8	-5.1	-5.0	0.8	5.0	4.2
	VHT80, M0 to M9 1ss	1	6	0.2				0.2	11.0	10.8
	VHT80, M0 to M9 1ss	2	9	0.2	-0.1			3.1	8.0	4.9
	VHT80, M0 to M9 2ss	2	6	0.2	-0.1			3.1	11.0	7.9
	VHT80, M0 to M9 1ss	3	11	-0.7	-1.7	-0.5		3.8	6.0	2.2
	VHT80, M0 to M9 2ss	3	8	-0.7	-1.7	-0.5		3.8	9.0	5.2
	VHT80, M0 to M9 3ss	3	6	-0.7	-1.7	-0.5		3.8	11.0	7.2
	VHT80, M0 to M9 1ss	4	12	-3.3	-3.7	-4.2	-2.7	2.6	5.0	2.4
90	VHT80, M0 to M9 2ss	4	9	-3.3	-3.7	-4.2	-2.7	2.6	8.0	5.4
5290	VHT80, M0 to M9 3ss	4	7	-3.3	-3.7	-4.2	-2.7	2.6	10.0	7.4
	VHT80 Beam Forming, M0 to M9 1ss	2	9	-1.9	-2.7			0.7	8.0	7.3
	VHT80 Beam Forming, M0 to M9 2ss	2	6	0.2	-0.1			3.1	11.0	7.9
	VHT80 Beam Forming, M0 to M9 1ss	3	11	-5.9	-6.5	-6.1		-1.4	6.0	7.4
	VHT80 Beam Forming, M0 to M9 2ss	3	8	-3.3	-3.7	-4.2		1.1	9.0	7.9
	VHT80 Beam Forming, M0 to M9 3ss	3	6	-0.7	-1.7	-0.5		3.8	11.0	7.2
	VHT80 Beam Forming, M0 to M9 1ss	4	12	-8.1	-8.6	-8.1	-8.0	-2.2	5.0	7.2
	VHT80 Beam Forming, M0 to M9 2ss	4	9	-5.9	-6.5	-6.1	-6.1	-0.1	8.0	8.1
	VHT80 Beam Forming, M0 to M9 3ss	4	7	-4.4	-4.8	-3.6	-3.9	1.9	10.0	8.1
	VHT80 STBC, M0 to M9 1ss	2	6	0.2	-0.1			3.1	11.0	7.9
	VHT80 STBC, M0 to M9 1ss	3	6	-0.7	-1.7	-0.5		3.8	11.0	7.2
	VHT80 STBC, M0 to M9 1ss	4	6	-3.3	-3.7	-4.2	-2.7	2.6	11.0	8.4
	Non HT20, 6 to 54 Mbps	1	6	7.0				7.0	11.0	4.0
	Non HT20, 6 to 54 Mbps	2	9	4.4	4.2			7.3	8.0	0.7
	Non HT20, 6 to 54 Mbps	3	11	0.6	0.2	0.8		5.3	6.0	0.7
	Non HT20, 6 to 54 Mbps	4	12	-1.5	-1.3	-1.3	-0.6	4.9	5.0	0.1
	Non HT20 Beam Forming, 6 to 54 Mbps	2	9	4.4	4.2			7.3	8.0	0.7
	Non HT20 Beam Forming, 6 to 54 Mbps	3	11	0.6	0.2	0.8		5.3	6.0	0.7
5280	Non HT20 Beam Forming, 6 to 54 Mbps	4	12	-1.5	-1.3	-1.3	-0.6	4.9	5.0	0.1
5	HT/VHT20, M0 to M7	1	6	7.0				7.0	11.0	4.0
	HT/VHT20, M0 to M7	2	9	4.7	4.1			7.4	8.0	0.6
	HT/VHT20, M8 to M15	2	6	7.0	6.4			9.7	11.0	1.3
	HT/VHT20, M0 to M7	3	11	0.4	0.1	0.6		5.1	6.0	0.9
										4.2
	HT/VHT20, M8 to M15	3	8	3.3	3.0	2.4		7.7	9.0	1.3

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								C13	-	
	HT/VHT20, M0 to M7	4	12	-1.8	-1.7	-1.6	-1.1	4.5	5.0	0.5
	HT/VHT20, M8 to M15	4	9	1.4	1.0	1.8	2.5	7.7	8.0	0.3
	HT/VHT20, M16 to M23	4	7	3.3	3.0	2.4	3.6	9.1	10.0	0.9
	HT/VHT20 Beam Forming, M0 to M7	2	9	4.7	4.1			7.4	8.0	0.6
	HT/VHT20 Beam Forming, M8 to M15	2	6	7.0	6.4			9.7	11.0	1.3
	HT/VHT20 Beam Forming, M0 to M7	3	11	0.4	0.1	0.6		5.1	6.0	0.9
	HT/VHT20 Beam Forming, M8 to M15	3	8	3.3	3.0	2.4		7.7	9.0	1.3
	HT/VHT20 Beam Forming, M16 to M23	3	6	5.7	5.2	5.9		10.4	11.0	0.6
	HT/VHT20 Beam Forming, M0 to M7	4	12	-1.8	-1.7	-1.6	-1.1	4.5	5.0	0.5
	HT/VHT20 Beam Forming, M8 to M15	4	9	1.4	1.0	1.8	2.5	7.7	8.0	0.3
	HT/VHT20 Beam Forming, M16 to M23	4	7	3.3	3.0	2.4	3.6	9.1	10.0	0.9
	HT/VHT20 STBC, M0 to M7	2	6	7.0	6.4			9.7	11.0	1.3
	HT/VHT20 STBC, M0 to M7	3	8	3.3	3.0	2.4		7.7	9.0	1.3
	HT/VHT20 STBC, M0 to M7	4	9	1.4	1.0	1.8	2.5	7.7	8.0	0.3
	Non HT20, 6 to 54 Mbps	1	6	7.5				7.5	11.0	3.5
	Non HT20, 6 to 54 Mbps	2	9	5.1	4.8			8.0	8.0	0.0
	Non HT20, 6 to 54 Mbps	3	11	1.2	0.6	0.0		5.4	6.0	0.6
	Non HT20, 6 to 54 Mbps	4	12	-0.7	-1.2	-1.9	-0.9	4.9	5.0	0.1
	Non HT20 Beam Forming, 6 to 54 Mbps	2	9	5.1	4.8			8.0	8.0	0.0
	Non HT20 Beam Forming, 6 to 54 Mbps	3	11	1.2	0.6	0.0		5.4	6.0	0.6
	Non HT20 Beam Forming, 6 to 54 Mbps	4	12	-0.7	-1.2	-1.9	-0.9	4.9	5.0	0.1
	HT/VHT20, M0 to M7	1	6	7.3				7.3	11.0	3.7
	HT/VHT20, M0 to M7	2	9	5.5	4.4			8.0	8.0	0.0
	HT/VHT20, M8 to M15	2	6	7.3	7.0			10.2	11.0	0.8
	HT/VHT20, M0 to M7	3	11	1.0	0.5	0.1		5.3	6.0	0.7
	HT/VHT20, M8 to M15	3	8	4.0	3.5	2.1		8.0	9.0	1.0
5300	HT/VHT20, M16 to M23	3	6	6.6	5.7	5.6		10.8	11.0	0.2
53	HT/VHT20, M0 to M7	4	12	-1.1	-1.4	-1.8	-0.7	4.8	5.0	0.2
	HT/VHT20, M8 to M15	4	9	2.2	1.5	1.2	2.2	7.8	8.0	0.2
	HT/VHT20, M16 to M23	4	7	4.0	3.5	2.1	3.2	9.3	10.0	0.7
	HT/VHT20 Beam Forming, M0 to M7	2	9	5.5	4.4			8.0	8.0	0.0
	HT/VHT20 Beam Forming, M8 to M15	2	6	7.3	7.0			10.2	11.0	0.8
	HT/VHT20 Beam Forming, M0 to M7	3	11	1.0	0.5	0.1		5.3	6.0	0.7
	HT/VHT20 Beam Forming, M8 to M15	3	8	4.0	3.5	2.1		8.0	9.0	1.0
	HT/VHT20 Beam Forming, M16 to M23	3	6	6.6	5.7	5.6		10.8	11.0	0.2
	HT/VHT20 Beam Forming, M0 to M7	4	12	-1.1	-1.4	-1.8	-0.7	4.8	5.0	0.2
	HT/VHT20 Beam Forming, M8 to M15	4	9	2.2	1.5	1.2	2.2	7.8	8.0	0.2
	HT/VHT20 Beam Forming, M16 to M23	4	7	4.0	3.5	2.1	3.2	9.3	10.0	0.7
	HT/VHT20 STBC, M0 to M7	2	6	7.3	7.0			10.2	11.0	0.8
	HT/VHT20 STBC, M0 to M7	3	8	4.0	3.5	2.1		8.0	9.0	1.0

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	HT/VHT20 STBC, M0 to M7	4	9	2.2	1.5	1.2	2.2	7.8	8.0	0.2
	Non HT40, 6 to 54 Mbps	1	6	2.1				2.1	11.0	8.9
	Non HT40, 6 to 54 Mbps	2	9	2.1	1.6			4.9	8.0	3.1
	Non HT40, 6 to 54 Mbps	3	11	1.1	0.7	0.3		5.5	6.0	0.5
	Non HT40, 6 to 54 Mbps	4	12	-0.8	-1.0	-2.8	-0.7	4.8	5.0	0.2
	HT/VHT40, M0 to M7	1	6	4.2				4.2	11.0	6.8
	HT/VHT40, M0 to M7	2	9	4.2	3.6			6.9	8.0	1.1
	HT/VHT40, M8 to M15	2	6	4.2	3.6			6.9	11.0	4.1
	HT/VHT40, M0 to M7	3	11	2.0	1.4	0.0		6.0	6.0	0.0
	HT/VHT40, M8 to M15	3	8	4.2	3.6	3.1		8.4	9.0	0.6
	HT/VHT40, M16 to M23	3	6	4.2	3.6	3.1		8.4	11.0	2.6
	HT/VHT40, M0 to M7	4	12	-1.2	-1.5	-2.0	-1.2	4.6	5.0	0.4
10	HT/VHT40, M8 to M15	4	9	1.7	1.5	1.7	2.2	7.8	8.0	0.2
5310	HT/VHT40, M16 to M23	4	7	1.7	1.5	1.7	2.2	7.8	10.0	2.2
	HT/VHT40 Beam Forming, M0 to M7	2	9	4.2	3.6			6.9	8.0	1.1
	HT/VHT40 Beam Forming, M8 to M15	2	6	4.2	3.6			6.9	11.0	4.1
	HT/VHT40 Beam Forming, M0 to M7	3	11	0.5	0.2	-1.1		4.7	6.0	1.3
	HT/VHT40 Beam Forming, M8 to M15	3	8	1.7	1.5	1.7		6.4	9.0	2.6
	HT/VHT40 Beam Forming, M16 to M23	3	6	4.2	3.6	3.1		8.4	11.0	2.6
	HT/VHT40 Beam Forming, M0 to M7	4	12	-2.1	-2.9	-2.7	-2.1	3.6	5.0	1.4
	HT/VHT40 Beam Forming, M8 to M15	4	9	0.5	0.2	-1.1	1.2	6.3	8.0	1.7
	HT/VHT40 Beam Forming, M16 to M23	4	7	2.0	1.4	0.0	0.9	7.2	10.0	2.8
	HT/VHT40 STBC, M0 to M7	2	6	4.2	3.6			6.9	11.0	4.1
	HT/VHT40 STBC, M0 to M7	3	8	4.2	3.6	3.1		8.4	9.0	0.6
	HT/VHT40 STBC, M0 to M7	4	9	1.7	1.5	1.7	2.2	7.8	8.0	0.2
	Non HT20, 6 to 54 Mbps	1	6	7.3				7.3	11.0	3.7
	Non HT20, 6 to 54 Mbps	2	9	4.9	4.6			7.8	8.0	0.2
	Non HT20, 6 to 54 Mbps	3	11	0.9	0.8	-0.2		5.3	6.0	0.7
	Non HT20, 6 to 54 Mbps	4	12	-0.7	-1.4	-2.6	-1.5	4.5	5.0	0.5
	Non HT20 Beam Forming, 6 to 54 Mbps	2	9	4.9	4.6			7.8	8.0	0.2
	Non HT20 Beam Forming, 6 to 54 Mbps	3	11	0.9	0.8	-0.2		5.3	6.0	0.7
20	Non HT20 Beam Forming, 6 to 54 Mbps	4	12	-0.7	-1.4	-2.6	-1.5	4.5	5.0	0.5
5320	HT/VHT20, M0 to M7	1	6	7.3				7.3	11.0	3.7
	HT/VHT20, M0 to M7	2	9	4.9	4.5			7.7	8.0	0.3
	HT/VHT20, M8 to M15	2	6	7.3	6.9			10.1	11.0	0.9
	HT/VHT20, M0 to M7	3	11	0.9	0.7	-0.5		5.2	6.0	0.8
	HT/VHT20, M8 to M15	3	8	3.6	3.4	1.6		7.7	9.0	1.3
	HT/VHT20, M16 to M23	3	6	5.9	5.8	4.8		10.3	11.0	0.7
	HT/VHT20, M0 to M7	4	12	-1.0	-1.3	-2.6	-1.5	4.5	5.0	0.5

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Radio Test Report No: EDCS -1551998

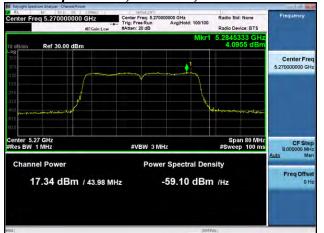


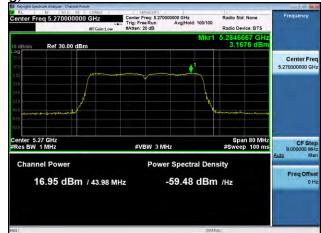
HT/VHT20, M8 to M15	4	9	1.9	2.0	0.8	1.7	7.6	8.0	0.4
HT/VHT20, M16 to M23	4	7	3.6	3.4	1.6	2.7	8.9	10.0	1.1
HT/VHT20 Beam Forming, M0 to M7	2	9	4.9	4.5			7.7	8.0	0.3
HT/VHT20 Beam Forming, M8 to M15	2	6	7.3	6.9			10.1	11.0	0.9
HT/VHT20 Beam Forming, M0 to M7	3	11	0.9	0.7	-0.5		5.2	6.0	0.8
HT/VHT20 Beam Forming, M8 to M15	3	8	3.6	3.4	1.6		7.7	9.0	1.3
HT/VHT20 Beam Forming, M16 to M23	3	6	5.9	5.8	4.8		10.3	11.0	0.7
HT/VHT20 Beam Forming, M0 to M7	4	12	-1.0	-1.3	-2.6	-1.5	4.5	5.0	0.5
HT/VHT20 Beam Forming, M8 to M15	4	9	1.9	2.0	0.8	1.7	7.6	8.0	0.4
HT/VHT20 Beam Forming, M16 to M23	4	7	3.6	3.4	1.6	2.7	8.9	10.0	1.1
HT/VHT20 STBC, M0 to M7	2	6	7.3	6.9			10.1	11.0	0.9
HT/VHT20 STBC, M0 to M7	3	8	3.6	3.4	1.6		7.7	9.0	1.3
HT/VHT20 STBC, M0 to M7	4	9	1.9	2.0	0.8	1.7	7.6	8.0	0.4

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Peak Output Power, 5270 MHz, HT/VHT40 Beam Forming, M0 to M7



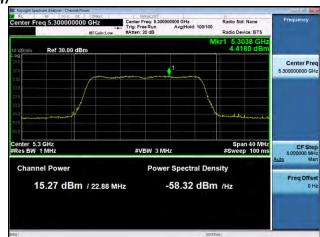


Antenna A Antenna B



Power Spectral Density, 5300 MHz, HT/VHT20, M0 to M7





Antenna A Antenna B

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## A.3 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:

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

Use formula below to substitute conducted measurements in place of radiated measurements

 $E[dB\mu V/m] = EIRP[dBm] - 20 log(d[meters]) + 104.77$ , where E = field strength and d = 3 meter

- 1) Average Plot, Limit= -41.25 dBm eirp
- 2) Peak plot, Limit = -21.25 dBm eirp

#### **Test Procedure**

Ref. KDB 789033 D02 General UNII Test Procedures New Rules v01r01 ANSI C63.10: 2013

### **Conducted Spurious Emissions**

Test Procedure

- 1. Connect the antenna port(s) to the spectrum analyzer input.
- 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.
- 3. Configure Spectrum analyzer as per test parameters below (be sure to enter all losses between the transmitter output and the spectrum analyzer).
- 4. Record the marker waveform peak to spur difference. Also measure any emissions in the restricted bands.
- 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.
- 6. Capture graphs and record pertinent measurement data.

**Ref.** KDB 789033 D02 General UNII Test Procedures New Rules v01r01 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

RBW = 1 MHz

VBW ≥ 3 x RBW for Peak, 1kHz for Average

Sweep = Auto couple Detector = Peak

Trace = Max Hold.

System Number	Description	Samples	System under test	Support equipment
4	EUT	S01	$\checkmark$	
1	Support	S02		$\checkmark$

Tested By :	Date of testing:
Jose Aguirre	01-Jan-16 - 03-Mar-16
Test Result : PASS	

See Appendix C for list of test equipment

Р	age	<u> 9 N</u>	<u>o:</u>	<u>40</u>	OT	94



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)
	Non HT160, 6 to 54 Mbps	1	6	-67.9				-61.9	-41.25	20.7
	Non HT160, 6 to 54 Mbps	2	6	-67.9	-67.8			-58.8	-41.25	17.6
	Non HT160, 6 to 54 Mbps	3	6	-67.9	-67.8	-67.8		-57.1	-41.25	15.8
	Non HT160, 6 to 54 Mbps	4	6	-67.9	-67.8	-67.8	-67.7	-55.8	-41.25	14.5
	VHT160, M0.1 to M9.1	1	6	-67.6				-61.6	-41.25	20.4
	VHT160, M0.1 to M9.1	2	6	-67.6	-67.8			-58.7	-41.25	17.4
	VHT160, M0.2 to M9.2	2	6	-67.6	-67.8			-58.7	-41.25	17.4
	VHT160, M0.1 to M9.1	3	6	-67.6	-67.8	-67.8		-57.0	-41.25	15.7
	VHT160, M0.2 to M9.2	3	6	-67.6	-67.8	-67.8		-57.0	-41.25	15.7
	VHT160, M0.3 to M9.3	3	6	-67.6	-67.8	-67.8		-57.0	-41.25	15.7
	VHT160, M0.1 to M9.1	4	6	-67.6	-67.8	-67.8	-66.9	-55.5	-41.25	14.2
5250	VHT160, M0.2 to M9.2	4	6	-67.6	-67.8	-67.8	-66.9	-55.5	-41.25	14.2
52	VHT160, M0.3 to M9.3	4	6	-67.6	-67.8	-67.8	-66.9	-55.5	-41.25	14.2
	VHT160 Beam Forming, M0.1 to M9.1	2	6	-67.6	-67.8			-58.7	-41.25	17.4
	VHT160 Beam Forming, M0.2 to M9.2	2	6	-67.6	-67.8			-58.7	-41.25	17.4
	VHT160 Beam Forming, M0.1 to M9.1	3	6	-67.6	-67.8	-67.8		-57.0	-41.25	15.7
	VHT160 Beam Forming, M0.2 to M9.2	3	6	-67.6	-67.8	-67.8		-57.0	-41.25	15.7
	VHT160 Beam Forming, M0.3 to M9.3	3	6	-67.6	-67.8	-67.8		-57.0	-41.25	15.7
	VHT160 Beam Forming, M0.1 to M9.1	4	6	-67.6	-67.8	-67.8	-66.9	-55.5	-41.25	14.2
	VHT160 Beam Forming, M0.2 to M9.2	4	6	-67.6	-67.8	-67.8	-66.9	-55.5	-41.25	14.2
	VHT160 Beam Forming, M0.3 to M9.3	4	6	-67.6	-67.8	-67.8	-66.9	-55.5	-41.25	14.2
	VHT160 STBC, M0.1 to M9.1	2	6	-67.6	-67.8			-58.7	-41.25	17.4
	VHT160 STBC, M0.1 to M9.1	3	6	-67.6	-67.8	-67.8		-57.0	-41.25	15.7
	VHT160 STBC, M0.1 to M9.1	4	6	-67.6	-67.8	-67.8	-66.9	-55.5	-41.25	14.2
	Non HT20, 6 to 54 Mbps	1	6	-69.0				-63.0	-41.25	21.8
	Non HT20, 6 to 54 Mbps	2	6	-69.0	-69.0			-60.0	-41.25	18.7
	Non HT20, 6 to 54 Mbps	3	6	-69.0	-69.0	-69.1		-58.3	-41.25	17.0
0	Non HT20, 6 to 54 Mbps	4	6	-69.0	-69.0	-69.1	-69.1	-57.0	-41.25	15.8
5260	Non HT20 Beam Forming, 6 to 54 Mbps	2	9	-69.0	-69.0			-57.0	-41.25	15.7
٠,	Non HT20 Beam Forming, 6 to 54 Mbps	3	11	-69.0	-69.0	-69.1		-53.5	-41.25	12.2
	Non HT20 Beam Forming, 6 to 54 Mbps	4	12	-69.0	-69.0	-69.1	-69.1	-51.0	-41.25	9.8
	HT/VHT20, M0 to M7	1	6	-69.0				-63.0	-41.25	21.8
	HT/VHT20, M0 to M7	2	6	-69.0	-68.9			-59.9	-41.25	18.7

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	HT/VHT20, M8 to M15	2	6	-69.0	-68.9			-59.9	-41.25	18.7
	HT/VHT20, M0 to M7	3	6	-69.0	-68.9	-69.1		-58.2	-41.25	17.0
	HT/VHT20, M8 to M15	3	6	-69.0	-68.9	-69.1		-58.2	-41.25	17.0
	HT/VHT20, M16 to M23	3	6	-69.0	-68.9	-69.1		-58.2	-41.25	17.0
	HT/VHT20, M0 to M7	4	6	-69.0	-68.9	-69.1	-69.1	-57.0	-41.25	15.8
	HT/VHT20, M8 to M15	4	6	-69.0	-68.9	-69.1	-69.1	-57.0	-41.25	15.8
	HT/VHT20, M16 to M23	4	6	-69.0	-68.9	-69.1	-69.1	-57.0	-41.25	15.8
	HT/VHT20 Beam Forming, M0 to M7	2	9	-69.0	-68.9			-56.9	-41.25	15.7
	HT/VHT20 Beam Forming, M8 to M15	2	6	-69.0	-68.9			-59.9	-41.25	18.7
	HT/VHT20 Beam Forming, M0 to M7	3	11	-69.0	-68.9	-69.1		-53.4	-41.25	12.2
	HT/VHT20 Beam Forming, M8 to M15	3	8	-69.0	-68.9	-69.1		-56.4	-41.25	15.2
	HT/VHT20 Beam Forming, M16 to M23	3	6	-69.0	-68.9	-69.1		-58.2	-41.25	17.0
	HT/VHT20 Beam Forming, M0 to M7	4	12	-69.0	-68.9	-69.1	-69.1	-51.0	-41.25	9.8
	HT/VHT20 Beam Forming, M8 to M15	4	9	-69.0	-68.9	-69.1	-69.1	-54.0	-41.25	12.8
	HT/VHT20 Beam Forming, M16 to M23	4	7	-69.0	-68.9	-69.1	-69.1	-55.8	-41.25	14.6
	HT/VHT20 STBC, M0 to M7	2	6	-69.0	-68.9			-59.9	-41.25	18.7
	HT/VHT20 STBC, M0 to M7	3	6	-69.0	-68.9	-69.1		-58.2	-41.25	17.0
	HT/VHT20 STBC, M0 to M7	4	6	-69.0	-68.9	-69.1	-69.1	-57.0	-41.25	15.8
			_	_	_	_	_	_	_	_
	Non HT40, 6 to 54 Mbps	1	6	-69.1				-63.1	-41.25	21.9
	Non HT40, 6 to 54 Mbps	2	6	-69.1	-69.0			-60.0	-41.25	18.8
	Non HT40, 6 to 54 Mbps	3	6	-69.1	-69.0	-69.0		-58.3	-41.25	17.0
	Non HT40, 6 to 54 Mbps	4	6	-69.1	-69.0	-69.0	-69.0	-57.0	-41.25	15.8
	HT/VHT40, M0 to M7	1	6	-69.1				-63.1	-41.25	21.9
	HT/VHT40, M0 to M7	2	6	-69.1	-69.1			-60.1	-41.25	18.8
	HT/VHT40, M8 to M15	2	6	-69.1	-69.1			-60.1	-41.25	18.8
	HT/VHT40, M0 to M7	3	6	-69.1	-69.1	-69.0		-58.3	-41.25	17.0
	HT/VHT40, M8 to M15	3	6	-69.1	-69.1	-69.0		-58.3	-41.25	17.0
	HT/VHT40, M16 to M23	3	6	-69.1	-69.1	-69.0		-58.3	-41.25	17.0
5270	HT/VHT40, M0 to M7	4	6	-69.1	-69.1	-69.0	-69.1	-57.1	-41.25	15.8
52	HT/VHT40, M8 to M15	4	6	-69.1	-69.1	-69.0	-69.1	-57.1	-41.25	15.8
	HT/VHT40, M16 to M23	4	6	-69.1	-69.1	-69.0	-69.1	-57.1	-41.25	15.8
	HT/VHT40 Beam Forming, M0 to M7	2	9	-69.1	-69.1			-57.1	-41.25	15.8
	HT/VHT40 Beam Forming, M8 to M15	2	6	-69.1	-69.1			-60.1	-41.25	18.8
	HT/VHT40 Beam Forming, M0 to M7	3	11	-69.1	-69.1	-69.0		-53.5	-41.25	12.2
	HT/VHT40 Beam Forming, M8 to M15	3	8	-69.1	-69.1	-69.0		-56.5	-41.25	15.2
	HT/VHT40 Beam Forming, M16 to M23	3	6	-69.1	-69.1	-69.0		-58.3	-41.25	17.0
	HT/VHT40 Beam Forming, M0 to M7	4	12	-69.1	-69.1	-69.0	-69.1	-51.1	-41.25	9.8
	HT/VHT40 Beam Forming, M8 to M15	4	9	-69.1	-69.1	-69.0	-69.1	-54.1	-41.25	12.8
	HT/VHT40 Beam Forming, M16 to M23	4	7	-69.1	-69.1	-69.0	-69.1	-55.9	-41.25	14.6
	HT/VHT40 STBC, M0 to M7	2	6	-69.1	-69.1			-60.1	-41.25	18.8

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HT/VHT40 STBC, M0 to M7											
Non HT80, 6 to 54 Mbps		HT/VHT40 STBC, M0 to M7	3	6	-69.1	-69.1	-69.0		-58.3	-41.25	17.0
Non HT80, 6 to 54 Mbps   2		HT/VHT40 STBC, M0 to M7	4	6	-69.1	-69.1	-69.0	-69.1	-57.1	-41.25	15.8
Non HT80, 6 to 54 Mbps   2				_	_	_	-	_	_	-	-
Non HT80, 6 to 54 Mbps		Non HT80, 6 to 54 Mbps	1	6	-69.0				-63.0	-41.25	21.8
Non HT80, 6 to 54 Mbps		Non HT80, 6 to 54 Mbps	2	6	-69.0	-69.0			-60.0	-41.25	18.7
VHT80, M0.1 to M9.1  VHT80, M0.1 to M9.1  VHT80, M0.2 to M9.2  VHT80, M0.2 to M9.2  VHT80, M0.3 to M9.3  VHT80, M0.3 to M9.2  VHT80 Beam Forming, M0.1 to M9.1  VHT80 Beam Forming, M0.1 to M9.1  VHT80 Beam Forming, M0.3 to M9.2  Z		Non HT80, 6 to 54 Mbps	3	6	-69.0	-69.0	-69.0		-58.2	-41.25	17.0
VHT80, M0.1 to M9.1  VHT80, M0.2 to M9.2  VHT80, M0.3 to M9.3  VHT80, M0.3 to M9.3  VHT80, M0.3 to M9.3  VHT80, M0.3 to M9.3  VHT80, M0.1 to M9.1  VHT80, M0.3 to M9.3  VHT80 Beam Forming, M0.1 to M9.1  VHT80 Beam Forming, M0.1 to M9.1  VHT80 Beam Forming, M0.1 to M9.1  VHT80 Beam Forming, M0.3 to M9.2  VHT80 Beam Forming, M0.3 to M9.3  VHT80 Beam Forming, M0.3 to M9.1  VHT80 Beam Forming, M0.3 to M9.3  VHT80 STBC, M0.1 to M9.1  VHT80 STBC, M0.1 t		Non HT80, 6 to 54 Mbps	4	6	-69.0	-69.0	-69.0	-69.1	-57.0	-41.25	15.8
VHT80, M0.2 to M9.2  VHT80, M0.1 to M9.1  VHT80, M0.2 to M9.2  3 6 -69.1 -69.1 -69.1 -69.1 -58.3 -41.25 17.1  VHT80, M0.3 to M9.3  3 6 -69.1 -69.1 -69.1 -69.1 -58.3 -41.25 17.1  VHT80, M0.3 to M9.3  3 6 -69.1 -69.1 -69.1 -69.1 -58.3 -41.25 17.1  VHT80, M0.3 to M9.3  3 6 -69.1 -69.1 -69.1 -69.1 -58.3 -41.25 17.1  VHT80, M0.2 to M9.3  4 6 -69.1 -69.1 -69.1 -69.1 -57.1 -41.25 15.8  VHT80, M0.3 to M9.3  4 6 -69.1 -69.1 -69.1 -69.1 -57.1 -41.25 15.8  VHT80, M0.3 to M9.3  4 6 -69.1 -69.1 -69.1 -69.1 -57.1 -41.25 15.8  VHT80 Beam Forming, M0.1 to M9.1  2 6 -69.1 -69.1 -69.1 -69.1 -57.1 -41.25 18.8  VHT80 Beam Forming, M0.2 to M9.2  2 6 -69.1 -69.1 -69.1 -69.1 -69.1 -57.1 -41.25 18.8  VHT80 Beam Forming, M0.2 to M9.2  3 6 -69.1 -69.1 -69.1 -69.1 -69.1 -58.3 -41.25 17.1  VHT80 Beam Forming, M0.2 to M9.2  3 6 -69.1 -69.1 -69.1 -69.1 -58.3 -41.25 17.1  VHT80 Beam Forming, M0.2 to M9.2  3 6 -69.1 -69.1 -69.1 -69.1 -58.3 -41.25 17.1  VHT80 Beam Forming, M0.3 to M9.3  3 6 -69.1 -69.1 -69.1 -69.1 -58.3 -41.25 17.1  VHT80 Beam Forming, M0.3 to M9.3  3 6 -69.1 -69.1 -69.1 -69.1 -58.3 -41.25 17.1  VHT80 Beam Forming, M0.3 to M9.3  3 6 -69.1 -69.1 -69.1 -69.1 -57.1 -41.25 18.8  VHT80 Beam Forming, M0.3 to M9.3  3 6 -69.1 -69.1 -69.1 -69.1 -57.1 -41.25 18.8  VHT80 SBEM Forming, M0.3 to M9.3  4 6 -69.1 -69.1 -69.1 -69.1 -57.1 -41.25 18.8  VHT80 SBEM Forming, M0.3 to M9.3  4 6 -69.1 -69.1 -69.1 -69.1 -57.1 -41.25 18.8  VHT80 STBC, M0.1 to M9.1  2 6 -69.1 -69.1 -69.1 -69.1 -57.1 -41.25 18.8  VHT80 STBC, M0.1 to M9.1  3 6 -69.0 -66.7 -69.0 -69.1 -57.1 -41.25 18.8  Non HT20, 6 to 54 Mbps  3 6 -69.0 -66.7 -69.0 -68.9 -56.3 -41.25 17.1  Non HT20 Beam Forming, 6 to 54 Mbps  3 11 -69.0 -66.7 -69.0 -68.9 -56.3 -41.25 11.3  Non HT20 Beam Forming, 6 to 54 Mbps  3 11 -69.0 -66.7 -69.0 -68.9 -56.3 -41.25 11.3  Non HT20 Beam Forming, 6 to 54 Mbps  3 11 -69.0 -66.7 -69.0 -68.9 -59.0 -61.2 -51.3 -41.25 18.8  Non HT20 Beam Forming, 6 to 54 Mbps  3 11 -69.0 -66.7 -69.0 -68.9 -59.0 -61.2 -51.3 -41.25 18.2  HT/VHT20, M0 to M7  1 6 -68.9 -69.0 -66.9 -6		VHT80, M0.1 to M9.1	1	6	-69.1				-63.1	-41.25	21.9
VHT80, M0.1 to M9.1  VHT80, M0.2 to M9.2  VHT80, M0.3 to M9.3  3 6 -69.1 -69.1 -69.1 -69.1 -58.3 -41.25 17.1  VHT80, M0.3 to M9.3  3 6 -69.1 -69.1 -69.1 -69.1 -58.3 -41.25 17.1  VHT80, M0.3 to M9.3  3 6 -69.1 -69.1 -69.1 -69.1 -57.1 -41.25 15.8  VHT80, M0.3 to M9.2  4 6 -69.1 -69.1 -69.1 -69.1 -57.1 -41.25 15.8  VHT80, M0.3 to M9.3  4 6 -69.1 -69.1 -69.1 -69.1 -57.1 -41.25 15.8  VHT80, M0.3 to M9.3  4 6 -69.1 -69.1 -69.1 -69.1 -57.1 -41.25 15.8  VHT80 Beam Forming, M0.1 to M9.1  2 6 -69.1 -69.1 -69.1 -69.1 -57.1 -41.25 18.8  VHT80 Beam Forming, M0.1 to M9.1  3 6 -69.1 -69.1 -69.1 -69.1 -57.1 -41.25 18.8  VHT80 Beam Forming, M0.1 to M9.1  3 6 -69.1 -69.1 -69.1 -69.1 -58.3 -41.25 17.1  VHT80 Beam Forming, M0.3 to M9.3  3 6 -69.1 -69.1 -69.1 -58.3 -41.25 17.1  VHT80 Beam Forming, M0.3 to M9.3  3 6 -69.1 -69.1 -69.1 -58.3 -41.25 17.1  VHT80 Beam Forming, M0.3 to M9.3  3 6 -69.1 -69.1 -69.1 -69.1 -58.3 -41.25 17.1  VHT80 Beam Forming, M0.3 to M9.3  3 6 -69.1 -69.1 -69.1 -69.1 -58.3 -41.25 17.1  VHT80 Beam Forming, M0.3 to M9.3  4 6 -69.1 -69.1 -69.1 -69.1 -57.1 -41.25 15.8  VHT80 Beam Forming, M0.3 to M9.3  4 6 -69.1 -69.1 -69.1 -69.1 -57.1 -41.25 15.8  VHT80 BEAM Forming, M0.3 to M9.3  4 6 -69.1 -69.1 -69.1 -69.1 -57.1 -41.25 15.8  VHT80 STBC, M0.1 to M9.1  2 6 -69.1 -69.1 -69.1 -69.1 -57.1 -41.25 15.8  VHT80 STBC, M0.1 to M9.1  3 6 -69.0 -69.1 -69.1 -69.1 -57.1 -41.25 15.8  VHT80 STBC, M0.1 to M9.1  4 6 -69.0 -69.1 -69.1 -69.1 -57.1 -41.25 15.8  Non HT20, 6 to 54 Mbps  3 6 -69.0 -66.7 -69.0 -58.9 -58.3 -41.25 17.4  Non HT20 Beam Forming, 6 to 54 Mbps  4 6 -69.0 -66.7 -69.0 -58.9 -50.3 -41.25 17.4  Non HT20 Beam Forming, 6 to 54 Mbps  4 1 6 -69.0 -66.7 -69.0 -58.9 -50.3 -41.25 18.8  Non HT20 Beam Forming, 6 to 54 Mbps  4 1 6 -69.0 -66.7 -69.0 -68.9 -59.3 -41.25 18.8  Non HT20 Beam Forming, 6 to 54 Mbps  4 1 6 -69.0 -66.7 -69.0 -68.9 -59.3 -41.25 18.7  HT/VHT20, M0 to M7  1 6 -68.9 -69.0 -66.7 -69.0 -58.9 -59.3 -41.25 18.7  HT/VHT20, M0 to M7  1 6 -68.9 -69.0 -66.7 -69.0 -58.9 -59.3 -41.25 18.7  HT/VHT20, M0 to M7		VHT80, M0.1 to M9.1	2	6	-69.1	-69.1			-60.1	-41.25	18.8
VHT80, M0.2 to M9.2  VHT80, M0.3 to M9.3  3 6 6 69.1 69.1 69.1 69.1 69.1 55.3 41.25 17.1  VHT80, M0.1 to M9.1  4 6 6 69.1 69.1 69.1 69.1 57.1 41.25 15.8  VHT80, M0.2 to M9.2  4 6 6 69.1 69.1 69.1 69.1 57.1 41.25 15.8  VHT80, M0.3 to M9.3  4 6 6 69.1 69.1 69.1 69.1 57.1 41.25 15.8  VHT80, M0.3 to M9.3  4 6 6 69.1 69.1 69.1 69.1 57.1 41.25 15.8  VHT80 Beam Forming, M0.2 to M9.2  2 6 6 69.1 69.1 69.1 69.1 69.1 41.25 18.8  VHT80 Beam Forming, M0.2 to M9.2  3 6 6 69.1 69.1 69.1 57.1 41.25 18.8  VHT80 Beam Forming, M0.2 to M9.2  3 6 6 69.1 69.1 69.1 58.3 41.25 17.1  VHT80 Beam Forming, M0.3 to M9.3  3 6 6 69.1 69.1 69.1 55.3 41.25 17.1  VHT80 Beam Forming, M0.3 to M9.3  3 6 6 69.1 69.1 69.1 55.3 41.25 17.1  VHT80 Beam Forming, M0.3 to M9.3  4 6 6 69.1 69.1 69.1 55.3 41.25 17.1  VHT80 Beam Forming, M0.3 to M9.3  4 6 6 69.1 69.1 69.1 57.1 41.25 15.8  VHT80 Beam Forming, M0.3 to M9.3  4 6 6 69.1 69.1 69.1 57.1 41.25 15.8  VHT80 SEBAM Forming, M0.3 to M9.3  4 6 6 69.1 69.1 69.1 69.1 57.1 41.25 15.8  VHT80 SEBAM Forming, M0.3 to M9.3  4 6 6 69.1 69.1 69.1 69.1 57.1 41.25 15.8  VHT80 STBC, M0.1 to M9.1  4 6 6 69.1 69.1 69.1 69.1 57.1 41.25 15.8  VHT80 STBC, M0.1 to M9.1  4 6 6 69.1 69.1 69.1 69.1 57.1 41.25 15.8  VHT80 STBC, M0.1 to M9.1  4 6 6 69.1 69.1 69.1 69.1 57.1 41.25 15.8  VHT80 STBC, M0.1 to M9.1  4 6 6 69.1 69.1 69.1 69.1 57.1 41.25 15.8  Non HT20, 6 to 54 Mbps  5 1 6 6 69.0 66.7 69.0 58.3 41.25 17.1  VHT80 Beam Forming, 6 to 54 Mbps  4 6 6 69.0 66.7 69.0 58.9 56.3 41.25 15.8  Non HT20 Beam Forming, 6 to 54 Mbps  4 6 6 69.0 66.7 69.0 66.7 59.0 59.0 41.25 18.8  Non HT20 Beam Forming, 6 to 54 Mbps  5 1 6 6 68.9 69.0 66.7 69.0 59.9 41.25 18.8  Non HT20 Beam Forming, 6 to 54 Mbps  4 12 69.0 66.7 69.0 68.9 50.3 41.25 18.8  Non HT20 Beam Forming, 6 to 54 Mbps  5 1 6 6 68.9 69.0 66.7 69.0 68.9 50.3 41.25 18.7  HT/VHT20, M0 to M7  1 6 6 68.9 69.0 66.7 69.0 68.9 50.3 41.25 18.7  HT/VHT20, M0 to M7  1 6 6 68.9 69.0 66.7 69.0 68.9 55.2 41.25 18.7  HT/VHT20, M0 to M7  3 6 6 68.9 69.0 68.9 55.2 41.25 16.9		VHT80, M0.2 to M9.2	2	6	-69.1	-69.1			-60.1	-41.25	18.8
VHT80, M0.3 to M9.3  VHT80, M0.1 to M9.1  VHT80, M0.2 to M9.2  VHT80, M0.3 to M9.3  VHT80 Beam Forming, M0.1 to M9.1  VHT80 Beam Forming, M0.1 to M9.1  VHT80 Beam Forming, M0.1 to M9.1  VHT80 Beam Forming, M0.3 to M9.2  VHT80 Beam Forming, M0.3 to M9.2  VHT80 Beam Forming, M0.3 to M9.2  VHT80 Beam Forming, M0.3 to M9.3  VHT80 Beam Forming, M0.3 to M9.2  VHT80 Beam Forming, M0.3 to M9.2  VHT80 Beam Forming, M0.3 to M9.3  VHT80 Beam Forming, M0.3 to M9.2  VHT80 Beam Forming, M0.3 to M9.3  VHT80 SEG, M0.1 to M9.1  VHT80 STBC, M0.1 to M0.2  VHT80 STBC, M0.1 to M0.2  VHT80 STBC, M0.1 to M0.2  VHT80 STBC, M0.1 t		VHT80, M0.1 to M9.1	3	6	-69.1	-69.1	-69.1		-58.3	-41.25	17.1
VHT80, M0.1 to M9.1  VHT80, M0.2 to M9.2  VHT80, M0.3 to M9.3  VHT80, M0.3 to M9.3  VHT80 Beam Forming, M0.2 to M9.2  VHT80 Beam Forming, M0.3 to M9.3  VHT80 Beam Forming, M0.1 to M9.1  VHT80 Beam Forming, M0.3 to M9.3  VHT80 STBC, M0.1 to M9.1  VHT80 STBC, M0.1 to M0.3		VHT80, M0.2 to M9.2	3	6	-69.1	-69.1	-69.1		-58.3	-41.25	17.1
VHT80, M0.2 to M9.2		VHT80, M0.3 to M9.3	3	6	-69.1	-69.1	-69.1		-58.3	-41.25	17.1
VHT80, M0.3 to M9.3         4         6         -69.1         -69.1         -57.1         -41.25         15.8           VHT80 Beam Forming, M0.1 to M9.1         2         6         -69.1         -69.1         -60.1         -41.25         18.8           VHT80 Beam Forming, M0.2 to M9.2         2         6         -69.1         -69.1         -60.1         -41.25         18.8           VHT80 Beam Forming, M0.2 to M9.2         3         6         -69.1         -69.1         -58.3         -41.25         17.1           VHT80 Beam Forming, M0.2 to M9.2         3         6         -69.1         -69.1         -58.3         -41.25         17.1           VHT80 Beam Forming, M0.3 to M9.3         3         6         -69.1         -69.1         -58.3         -41.25         17.1           VHT80 Beam Forming, M0.3 to M9.3         4         6         -69.1         -69.1         -69.1         -58.3         -41.25         15.8           VHT80 Beam Forming, M0.3 to M9.2         4         6         -69.1         -69.1         -69.1         -57.1         -41.25         15.8           VHT80 STBC, M0.1 to M9.1         2         6         -69.1         -69.1         -69.1         -57.1         -41.25         15.8 <td></td> <td>VHT80, M0.1 to M9.1</td> <td>4</td> <td>6</td> <td>-69.1</td> <td>-69.1</td> <td>-69.1</td> <td>-69.1</td> <td>-57.1</td> <td>-41.25</td> <td>15.8</td>		VHT80, M0.1 to M9.1	4	6	-69.1	-69.1	-69.1	-69.1	-57.1	-41.25	15.8
VHT80 Beam Forming, M0.1 to M9.1  VHT80 Beam Forming, M0.2 to M9.2  VHT80 Beam Forming, M0.1 to M9.1  VHT80 Beam Forming, M0.1 to M9.1  VHT80 Beam Forming, M0.2 to M9.2  3 6 -69.1 -69.1 -69.1 -69.1 -58.3 -41.25 17.1  VHT80 Beam Forming, M0.2 to M9.2  3 6 -69.1 -69.1 -69.1 -69.1 -58.3 -41.25 17.1  VHT80 Beam Forming, M0.3 to M9.3  3 6 -69.1 -69.1 -69.1 -69.1 -58.3 -41.25 17.1  VHT80 Beam Forming, M0.1 to M9.1  4 6 -69.1 -69.1 -69.1 -69.1 -57.1 -41.25 15.8  VHT80 Beam Forming, M0.3 to M9.3  4 6 -69.1 -69.1 -69.1 -69.1 -57.1 -41.25 15.8  VHT80 Beam Forming, M0.3 to M9.3  4 6 -69.1 -69.1 -69.1 -69.1 -57.1 -41.25 15.8  VHT80 STBC, M0.1 to M9.1  2 6 -69.1 -69.1 -69.1 -69.1 -57.1 -41.25 15.8  VHT80 STBC, M0.1 to M9.1  4 6 -69.1 -69.1 -69.1 -69.1 -57.1 -41.25 15.8  VHT80 STBC, M0.1 to M9.1  4 6 -69.0 -66.7 -69.0 -68.9 -58.3 -41.25 17.1  VHT80 STBC, M0.1 to M9.1  Non HT20, 6 to 54 Mbps  3 6 -69.0 -66.7 -69.0 -68.9 -56.3 -41.25 17.4  Non HT20, Beam Forming, 6 to 54 Mbps  4 6 -69.0 -66.7 -69.0 -68.9 -55.3 -41.25 15.0  Non HT20 Beam Forming, 6 to 54 Mbps  3 11 -69.0 -66.7 -69.0 -68.9 -50.3 -41.25 15.0  Non HT20 Beam Forming, 6 to 54 Mbps  4 12 -69.0 -66.7 -69.0 -68.9 -50.3 -41.25 17.1  HT/VHT20, M0 to M7  1 6 -68.9 -69.0 -66.7 -69.0 -59.9 -41.25 18.7  HT/VHT20, M0 to M7  1 6 -68.9 -69.0 -66.9 -59.9 -41.25 18.7  HT/VHT20, M0 to M7  1 6 -68.9 -69.0 -68.9 -59.0 -59.9 -41.25 18.7  HT/VHT20, M0 to M7  1 6 -68.9 -69.0 -68.9 -59.0 -59.9 -41.25 18.7  HT/VHT20, M0 to M7  1 6 -68.9 -69.0 -68.9 -59.0 -59.9 -41.25 18.7  HT/VHT20, M0 to M7  1 6 -68.9 -69.0 -68.9 -59.0 -59.9 -41.25 18.7  HT/VHT20, M0 to M7  1 6 -68.9 -69.0 -68.9 -59.0 -59.9 -41.25 18.7  HT/VHT20, M0 to M7  3 6 -68.9 -69.0 -68.9 -58.2 -41.25 16.9	90	VHT80, M0.2 to M9.2	4	6	-69.1	-69.1	-69.1	-69.1	-57.1	-41.25	15.8
VHT80 Beam Forming, M0.2 to M9.2  VHT80 Beam Forming, M0.1 to M9.1  VHT80 Beam Forming, M0.1 to M9.2  VHT80 Beam Forming, M0.2 to M9.2  VHT80 Beam Forming, M0.2 to M9.2  VHT80 Beam Forming, M0.3 to M9.3  3 6 -69.1 -69.1 -69.1 -69.1 -58.3 -41.25 17.1  VHT80 Beam Forming, M0.3 to M9.3  3 6 -69.1 -69.1 -69.1 -69.1 -58.3 -41.25 17.1  VHT80 Beam Forming, M0.3 to M9.3  3 6 -69.1 -69.1 -69.1 -69.1 -57.1 -41.25 15.8  VHT80 Beam Forming, M0.3 to M9.3  4 6 -69.1 -69.1 -69.1 -69.1 -69.1 -57.1 -41.25 15.8  VHT80 Beam Forming, M0.3 to M9.3  4 6 -69.1 -69.1 -69.1 -69.1 -69.1 -57.1 -41.25 15.8  VHT80 STBC, M0.1 to M9.1  2 6 -69.1 -69.1 -69.1 -69.1 -69.1 -57.1 -41.25 15.8  VHT80 STBC, M0.1 to M9.1  3 6 -69.1 -69.1 -69.1 -69.1 -57.1 -41.25 15.8  VHT80 STBC, M0.1 to M9.1  4 6 -69.1 -69.1 -69.1 -69.1 -57.1 -41.25 15.8  VHT80 STBC, M0.1 to M9.1  3 6 -69.1 -69.1 -69.1 -69.1 -57.1 -41.25 15.8  VHT80 STBC, M0.1 to M9.1  3 6 -69.1 -69.1 -69.1 -69.1 -57.1 -41.25 15.8  VHT80 STBC, M0.1 to M9.1  4 6 -69.0 -66.7 -69.1 -69.1 -57.1 -41.25 15.8  Non HT20, 6 to 54 Mbps  1 6 -69.0 -66.7 -69.0 -58.3 -41.25 17.1  Non HT20, 6 to 54 Mbps  3 6 -69.0 -66.7 -69.0 -58.9 -58.3 -41.25 15.0  Non HT20, 6 to 54 Mbps  3 6 -69.0 -66.7 -69.0 -68.9 -55.3 -41.25 15.0  Non HT20 Beam Forming, 6 to 54 Mbps  3 11 -69.0 -66.7 -69.0 -68.9 -55.3 -41.25 15.0  Non HT20 Beam Forming, 6 to 54 Mbps  3 11 -69.0 -66.7 -69.0 -68.9 -59.3 -41.25 11.3  Non HT20 Beam Forming, 6 to 54 Mbps  4 12 -69.0 -66.7 -69.0 -68.9 -50.3 -41.25 11.3  Non HT20 Beam Forming, 6 to 54 Mbps  4 12 -69.0 -66.7 -69.0 -68.9 -59.0 -41.25 18.7  HT/VHT20, M0 to M7  1 6 -68.9 -69.0 -66.9 -69.0 -68.9 -59.9 -41.25 18.7  HT/VHT20, M0 to M7  1 6 -68.9 -69.0 -68.9 -69.0 -68.9 -59.2 -41.25 16.9  HT/VHT20, M0 to M7  3 6 -68.9 -69.0 -68.9 -69.0 -68.9 -58.2 -41.25 16.9	52	VHT80, M0.3 to M9.3	4	6	-69.1	-69.1	-69.1	-69.1	-57.1	-41.25	15.8
VHT80 Beam Forming, M0.1 to M9.1  VHT80 Beam Forming, M0.2 to M9.2  3 6 -69.1 -69.1 -69.1 -58.3 -41.25 17.1  VHT80 Beam Forming, M0.3 to M9.3  3 6 -69.1 -69.1 -69.1 -58.3 -41.25 17.1  VHT80 Beam Forming, M0.1 to M9.1  VHT80 Beam Forming, M0.1 to M9.1  VHT80 Beam Forming, M0.1 to M9.2  4 6 -69.1 -69.1 -69.1 -69.1 -57.1 -41.25 15.8  VHT80 Beam Forming, M0.3 to M9.3  4 6 -69.1 -69.1 -69.1 -69.1 -57.1 -41.25 15.8  VHT80 Beam Forming, M0.3 to M9.3  4 6 -69.1 -69.1 -69.1 -69.1 -57.1 -41.25 15.8  VHT80 STBC, M0.1 to M9.1  2 6 -69.1 -69.1 -69.1 -69.1 -57.1 -41.25 15.8  VHT80 STBC, M0.1 to M9.1  3 6 -69.1 -69.1 -69.1 -69.1 -58.3 -41.25 17.1  VHT80 STBC, M0.1 to M9.1  4 6 -69.1 -69.1 -69.1 -57.1 -41.25 15.8  Non HT20, 6 to 54 Mbps  1 6 -69.0 -66.7 -69.0 -65.1 -57.1 -41.25 15.8  Non HT20, 6 to 54 Mbps  3 6 -69.0 -66.7 -69.0 -68.9 -56.3 -41.25 17.4  Non HT20 Beam Forming, 6 to 54 Mbps  3 11 -69.0 -66.7 -69.0 -68.9 -50.3 -41.25 11.3  Non HT20 Beam Forming, 6 to 54 Mbps  3 11 -69.0 -66.7 -69.0 -55.7 -41.25 11.3  Non HT20 Beam Forming, 6 to 54 Mbps  4 12 -69.0 -66.7 -69.0 -59.0 -41.25 11.3  Non HT20 Beam Forming, 6 to 54 Mbps  4 12 -69.0 -66.7 -69.0 -59.0 -41.25 11.3  Non HT20 Beam Forming, 6 to 54 Mbps  4 12 -69.0 -66.7 -69.0 -59.0 -41.25 11.3  HT/VHT20, M0 to M7  1 6 -68.9 -69.0 -68.9 -59.0 -41.25 18.7  HT/VHT20, M0 to M7  2 6 -68.9 -69.0 -68.9 -59.0 -41.25 18.7  HT/VHT20, M0 to M7  3 6 -68.9 -69.0 -68.9 -58.2 -41.25 16.9  HT/VHT20, M0 to M7  3 6 -68.9 -69.0 -68.9 -58.2 -41.25 16.9		VHT80 Beam Forming, M0.1 to M9.1	2	6	-69.1	-69.1			-60.1	-41.25	18.8
VHT80 Beam Forming, M0.2 to M9.2         3         6         -69.1         -69.1         -58.3         -41.25         17.1           VHT80 Beam Forming, M0.3 to M9.3         3         6         -69.1         -69.1         -69.1         -58.3         -41.25         17.1           VHT80 Beam Forming, M0.1 to M9.1         4         6         -69.1         -69.1         -69.1         -57.1         -41.25         15.8           VHT80 Beam Forming, M0.2 to M9.2         4         6         -69.1         -69.1         -69.1         -59.1         -57.1         -41.25         15.8           VHT80 Beam Forming, M0.3 to M9.3         4         6         -69.1         -69.1         -69.1         -57.1         -41.25         15.8           VHT80 STBC, M0.1 to M9.1         2         6         -69.1         -69.1         -69.1         -57.1         -41.25         15.8           VHT80 STBC, M0.1 to M9.1         3         6         -69.1         -69.1         -69.1         -58.3         -41.25         15.8           VHT80 STBC, M0.1 to M9.1         4         6         -69.1         -69.1         -69.1         -69.1         -58.3         -41.25         11.8           VHT80 STBC, M0.1 to M9.1         4         6 </td <td></td> <td>VHT80 Beam Forming, M0.2 to M9.2</td> <td>2</td> <td>6</td> <td>-69.1</td> <td>-69.1</td> <td></td> <td></td> <td>-60.1</td> <td>-41.25</td> <td>18.8</td>		VHT80 Beam Forming, M0.2 to M9.2	2	6	-69.1	-69.1			-60.1	-41.25	18.8
VHT80 Beam Forming, M0.3 to M9.3         3         6         -69.1         -69.1         -69.1         -58.3         -41.25         17.1           VHT80 Beam Forming, M0.1 to M9.1         4         6         -69.1         -69.1         -69.1         -57.1         -41.25         15.8           VHT80 Beam Forming, M0.2 to M9.2         4         6         -69.1         -69.1         -69.1         -69.1         -57.1         -41.25         15.8           VHT80 Beam Forming, M0.3 to M9.3         4         6         -69.1         -69.1         -69.1         -69.1         -57.1         -41.25         15.8           VHT80 STBC, M0.1 to M9.1         2         6         -69.1         -69.1         -69.1         -69.1         -60.1         -41.25         18.8           VHT80 STBC, M0.1 to M9.1         3         6         -69.1         -69.1         -69.1         -58.3         -41.25         17.1           VHT80 STBC, M0.1 to M9.1         4         6         -69.1         -69.1         -69.1         -58.3         -41.25         17.1           VHT80 STBC, M0.1 to M9.1         4         6         -69.1         -69.1         -69.1         -58.3         -41.25         15.8           WB M0.1 to M9.1		VHT80 Beam Forming, M0.1 to M9.1	3	6	-69.1	-69.1	-69.1		-58.3	-41.25	17.1
VHT80 Beam Forming, M0.1 to M9.1         4         6         -69.1         -69.1         -69.1         -57.1         -41.25         15.8           VHT80 Beam Forming, M0.2 to M9.2         4         6         -69.1         -69.1         -69.1         -57.1         -41.25         15.8           VHT80 Beam Forming, M0.3 to M9.3         4         6         -69.1         -69.1         -69.1         -57.1         -41.25         15.8           VHT80 STBC, M0.1 to M9.1         2         6         -69.1         -69.1         -69.1         -60.1         -41.25         18.8           VHT80 STBC, M0.1 to M9.1         3         6         -69.1         -69.1         -69.1         -58.3         -41.25         17.1           VHT80 STBC, M0.1 to M9.1         4         6         -69.1         -69.1         -69.1         -58.3         -41.25         18.8           VHT80 STBC, M0.1 to M9.1         4         6         -69.1         -69.1         -69.1         -58.3         -41.25         15.8           Non HT20, 6 to 54 Mbps         1         6         -69.0         -66.7         -58.7         -41.25         15.0           Non HT20, 6 to 54 Mbps         3         6         -69.0         -66.7         -69.		VHT80 Beam Forming, M0.2 to M9.2	3	6	-69.1	-69.1	-69.1		-58.3	-41.25	17.1
VHT80 Beam Forming, M0.2 to M9.2         4         6         -69.1         -69.1         -69.1         -57.1         -41.25         15.8           VHT80 Beam Forming, M0.3 to M9.3         4         6         -69.1         -69.1         -69.1         -57.1         -41.25         15.8           VHT80 STBC, M0.1 to M9.1         2         6         -69.1         -69.1         -69.1         -58.3         -41.25         18.8           VHT80 STBC, M0.1 to M9.1         3         6         -69.1         -69.1         -69.1         -58.3         -41.25         17.1           VHT80 STBC, M0.1 to M9.1         4         6         -69.1         -69.1         -69.1         -58.3         -41.25         17.1           VHT80 STBC, M0.1 to M9.1         4         6         -69.1         -69.1         -69.1         -58.3         -41.25         17.1           VHT80 STBC, M0.1 to M9.1         4         6         -69.1         -69.1         -69.1         -58.3         -41.25         18.8           VHT80 STBC, M0.1 to M9.1         4         6         -69.0         -69.1         -69.1         -69.1         -69.1         -57.1         -41.25         18.8           VHT80 STBC, M0.1 to M9.1         1         6 <td></td> <td>VHT80 Beam Forming, M0.3 to M9.3</td> <td>3</td> <td>6</td> <td>-69.1</td> <td>-69.1</td> <td>-69.1</td> <td></td> <td>-58.3</td> <td>-41.25</td> <td>17.1</td>		VHT80 Beam Forming, M0.3 to M9.3	3	6	-69.1	-69.1	-69.1		-58.3	-41.25	17.1
VHT80 Beam Forming, M0.3 to M9.3         4         6         -69.1         -69.1         -69.1         -57.1         -41.25         15.8           VHT80 STBC, M0.1 to M9.1         2         6         -69.1         -69.1         -69.1         -60.1         -41.25         18.8           VHT80 STBC, M0.1 to M9.1         3         6         -69.1         -69.1         -69.1         -58.3         -41.25         17.1           VHT80 STBC, M0.1 to M9.1         4         6         -69.1         -69.1         -69.1         -58.3         -41.25         15.8           Non HT20, 6 to 54 Mbps         1         6         -69.0         -66.7         -69.1         -57.1         -41.25         21.8           Non HT20, 6 to 54 Mbps         2         6         -69.0         -66.7         -58.7         -41.25         17.4           Non HT20, 6 to 54 Mbps         3         6         -69.0         -66.7         -69.0         -58.7         -41.25         17.4           Non HT20, 6 to 54 Mbps         4         6         -69.0         -66.7         -69.0         -57.3         -41.25         15.0           Non HT20 Beam Forming, 6 to 54 Mbps         2         9         -69.0         -66.7         -		VHT80 Beam Forming, M0.1 to M9.1	4	6	-69.1	-69.1	-69.1	-69.1	-57.1	-41.25	15.8
VHT80 STBC, M0.1 to M9.1  VHT80 STACK  VHT80		VHT80 Beam Forming, M0.2 to M9.2	4	6	-69.1	-69.1	-69.1	-69.1	-57.1	-41.25	15.8
VHT80 STBC, M0.1 to M9.1         3         6         -69.1         -69.1         -69.1         -58.3         -41.25         17.1           VHT80 STBC, M0.1 to M9.1         4         6         -69.1         -69.1         -69.1         -57.1         -41.25         15.8           VHT80 STBC, M0.1 to M9.1         1         6         -69.1         -69.1         -69.1         -57.1         -41.25         15.8           Non HT20, 6 to 54 Mbps         1         6         -69.0         -66.7         -69.0         -63.0         -41.25         21.8           Non HT20, 6 to 54 Mbps         2         6         -69.0         -66.7         -69.0         -57.3         -41.25         16.1           Non HT20, 6 to 54 Mbps         4         6         -69.0         -66.7         -69.0         -56.3         -41.25         15.0           Non HT20 Beam Forming, 6 to 54 Mbps         2         9         -69.0         -66.7         -69.0         -55.7         -41.25         11.3           Non HT20 Beam Forming, 6 to 54 Mbps         3         11         -69.0         -66.7         -69.0         -52.5         -41.25         11.3           HT/VHT20, M0 to M7         1         6         -68.9		VHT80 Beam Forming, M0.3 to M9.3	4	6	-69.1	-69.1	-69.1	-69.1	-57.1	-41.25	15.8
Non HT20, 6 to 54 Mbps   1   6   -69.0   -66.7   -69.0   -57.1   -41.25   15.8		VHT80 STBC, M0.1 to M9.1	2	6	-69.1	-69.1			-60.1	-41.25	18.8
Non HT20, 6 to 54 Mbps   1   6   -69.0     -63.0   -41.25   21.8		VHT80 STBC, M0.1 to M9.1	3	6	-69.1	-69.1	-69.1		-58.3	-41.25	17.1
Non HT20, 6 to 54 Mbps 3 6 -69.0 -66.7 -69.0 -57.3 -41.25 15.0 Non HT20, 6 to 54 Mbps 4 6 -69.0 -66.7 -69.0 -68.9 -56.3 -41.25 15.0 Non HT20 Beam Forming, 6 to 54 Mbps 3 11 -69.0 -66.7 -69.0 -52.5 -41.25 11.3 Non HT20 Beam Forming, 6 to 54 Mbps 3 11 -69.0 -66.7 -69.0 -52.5 -41.25 11.3 Non HT20 Beam Forming, 6 to 54 Mbps 4 12 -69.0 -66.7 -69.0 -68.9 -50.3 -41.25 9.0 HT/VHT20, M0 to M7 1 6 -68.9 -69.0 -69.0 -59.9 -41.25 18.7 HT/VHT20, M8 to M15 2 6 -68.9 -69.0 -68.9 -59.0 -59.9 -41.25 18.7 HT/VHT20, M0 to M7 3 6 -68.9 -69.0 -68.9 -59.0 -58.2 -41.25 16.9 HT/VHT20, M8 to M15 3 6 -68.9 -69.0 -68.9 -58.2 -41.25 16.9		VHT80 STBC, M0.1 to M9.1	4	6	-69.1	-69.1	-69.1	-69.1	-57.1	-41.25	15.8
Non HT20, 6 to 54 Mbps 3 6 -69.0 -66.7 -69.0 -57.3 -41.25 15.0 Non HT20, 6 to 54 Mbps 4 6 -69.0 -66.7 -69.0 -68.9 -56.3 -41.25 15.0 Non HT20 Beam Forming, 6 to 54 Mbps 3 11 -69.0 -66.7 -69.0 -52.5 -41.25 11.3 Non HT20 Beam Forming, 6 to 54 Mbps 3 11 -69.0 -66.7 -69.0 -52.5 -41.25 11.3 Non HT20 Beam Forming, 6 to 54 Mbps 4 12 -69.0 -66.7 -69.0 -68.9 -50.3 -41.25 9.0 HT/VHT20, M0 to M7 1 6 -68.9 -69.0 -69.0 -59.9 -41.25 18.7 HT/VHT20, M8 to M15 2 6 -68.9 -69.0 -68.9 -59.0 -59.9 -41.25 18.7 HT/VHT20, M0 to M7 3 6 -68.9 -69.0 -68.9 -59.0 -58.2 -41.25 16.9 HT/VHT20, M8 to M15 3 6 -68.9 -69.0 -68.9 -58.2 -41.25 16.9											
Non HT20, 6 to 54 Mbps  3 6 -69.0 -66.7 -69.0 -57.3 -41.25 15.0  Non HT20, 6 to 54 Mbps  4 6 -69.0 -66.7 -69.0 -68.9 -56.3 -41.25 15.0  Non HT20 Beam Forming, 6 to 54 Mbps  2 9 -69.0 -66.7 -69.0 -55.7 -41.25 14.4  Non HT20 Beam Forming, 6 to 54 Mbps  3 11 -69.0 -66.7 -69.0 -52.5 -41.25 11.3  Non HT20 Beam Forming, 6 to 54 Mbps  4 12 -69.0 -66.7 -69.0 -68.9 -50.3 -41.25 9.0  HT/VHT20, M0 to M7  1 6 -68.9 -69.0 -68.9 -69.0 -62.9 -41.25 18.7  HT/VHT20, M8 to M15  2 6 -68.9 -69.0 -68.9 -59.9 -41.25 18.7  HT/VHT20, M0 to M7  3 6 -68.9 -69.0 -68.9 -58.2 -41.25 16.9  HT/VHT20, M8 to M15  3 6 -68.9 -69.0 -68.9 -58.2 -41.25 16.9		Non HT20, 6 to 54 Mbps	1	6	-69.0				-63.0	-41.25	21.8
Non HT20, 6 to 54 Mbps  Non HT20 Beam Forming, 6 to 54 Mbps  4 12 -69.0 -66.7 -69.0 -68.9 -50.3 -41.25 11.3  HT/VHT20, M0 to M7  1 6 -68.9 -69.0 -69.0 -62.9 -41.25 21.7  HT/VHT20, M0 to M7  2 6 -68.9 -69.0 -69.0 -59.9 -41.25 18.7  HT/VHT20, M0 to M7  3 6 -68.9 -69.0 -68.9 -59.0 -58.2 -41.25 16.9  HT/VHT20, M8 to M15  3 6 -68.9 -69.0 -68.9 -59.0 -58.2 -41.25 16.9		Non HT20, 6 to 54 Mbps	2	6	-69.0	-66.7			-58.7	-41.25	17.4
Non HT20 Beam Forming, 6 to 54 Mbps 2 9 -69.0 -66.7 -69.0 -55.7 -41.25 14.4  Non HT20 Beam Forming, 6 to 54 Mbps 3 11 -69.0 -66.7 -69.0 -52.5 -41.25 11.3  Non HT20 Beam Forming, 6 to 54 Mbps 4 12 -69.0 -66.7 -69.0 -68.9 -50.3 -41.25 9.0  HT/VHT20, M0 to M7 1 6 -68.9 -69.0 -69.0 -69.0 -59.9 -41.25 18.7  HT/VHT20, M8 to M15 2 6 -68.9 -69.0 -68.9 -59.9 -41.25 18.7  HT/VHT20, M0 to M7 3 6 -68.9 -69.0 -68.9 -58.2 -41.25 16.9  HT/VHT20, M8 to M15 3 6 -68.9 -69.0 -68.9 -58.2 -41.25 16.9		Non HT20, 6 to 54 Mbps	3	6	-69.0	-66.7	-69.0		-57.3	-41.25	16.1
Non HT20 Beam Forming, 6 to 54 Mbps  3 11 -69.0 -66.7 -69.0 -52.5 -41.25 11.3  Non HT20 Beam Forming, 6 to 54 Mbps  4 12 -69.0 -66.7 -69.0 -68.9 -50.3 -41.25 9.0  HT/VHT20, M0 to M7  1 6 -68.9 -69.0 -68.9 -69.0 -59.9 -41.25 18.7  HT/VHT20, M8 to M15  2 6 -68.9 -69.0 -68.9 -59.9 -41.25 18.7  HT/VHT20, M0 to M7  3 6 -68.9 -69.0 -68.9 -58.2 -41.25 16.9  HT/VHT20, M8 to M15  3 6 -68.9 -69.0 -68.9 -58.2 -41.25 16.9		Non HT20, 6 to 54 Mbps	4	6	-69.0	-66.7	-69.0	-68.9	-56.3	-41.25	15.0
Non HT20 Beam Forming, 6 to 54 Mbps  4 12 -69.0 -66.7 -69.0 -68.9 -50.3 -41.25 9.0  HT/VHT20, M0 to M7  1 6 -68.9 -69.0 -62.9 -41.25 21.7  HT/VHT20, M0 to M7  2 6 -68.9 -69.0 -59.9 -41.25 18.7  HT/VHT20, M0 to M7  3 6 -68.9 -69.0 -68.9 -58.2 -41.25 16.9  HT/VHT20, M8 to M15  3 6 -68.9 -69.0 -68.9 -58.2 -41.25 16.9		Non HT20 Beam Forming, 6 to 54 Mbps	2	9	-69.0	-66.7			-55.7	-41.25	14.4
HT/VHT20, M0 to M7       1       6       -68.9       -62.9       -41.25       21.7         HT/VHT20, M0 to M7       2       6       -68.9       -69.0       -59.9       -41.25       18.7         HT/VHT20, M8 to M15       2       6       -68.9       -69.0       -59.9       -41.25       18.7         HT/VHT20, M0 to M7       3       6       -68.9       -69.0       -68.9       -58.2       -41.25       16.9         HT/VHT20, M8 to M15       3       6       -68.9       -69.0       -68.9       -58.2       -41.25       16.9		Non HT20 Beam Forming, 6 to 54 Mbps	3	11	-69.0	-66.7	-69.0		-52.5	-41.25	11.3
HT/VHT20, M0 to M7       1       6       -68.9       -62.9       -41.25       21.7         HT/VHT20, M0 to M7       2       6       -68.9       -69.0       -59.9       -41.25       18.7         HT/VHT20, M8 to M15       2       6       -68.9       -69.0       -59.9       -41.25       18.7         HT/VHT20, M0 to M7       3       6       -68.9       -69.0       -68.9       -58.2       -41.25       16.9         HT/VHT20, M8 to M15       3       6       -68.9       -69.0       -68.9       -58.2       -41.25       16.9	328	Non HT20 Beam Forming, 6 to 54 Mbps	4	12	-69.0	-66.7	-69.0	-68.9	-50.3	-41.25	9.0
HT/VHT20, M8 to M15       2       6       -68.9       -69.0       -59.9       -41.25       18.7         HT/VHT20, M0 to M7       3       6       -68.9       -69.0       -68.9       -58.2       -41.25       16.9         HT/VHT20, M8 to M15       3       6       -68.9       -69.0       -68.9       -58.2       -41.25       16.9	7	HT/VHT20, M0 to M7	1	6	-68.9				-62.9	-41.25	21.7
HT/VHT20, M0 to M7       3       6       -68.9       -69.0       -68.9       -58.2       -41.25       16.9         HT/VHT20, M8 to M15       3       6       -68.9       -69.0       -68.9       -58.2       -41.25       16.9		HT/VHT20, M0 to M7	2	6	-68.9	-69.0			-59.9	-41.25	18.7
HT/VHT20, M8 to M15 3 6 -68.9 -69.0 -68.9 -58.2 -41.25 16.9		HT/VHT20, M8 to M15	2	6	-68.9	-69.0			-59.9	-41.25	18.7
		HT/VHT20, M0 to M7	3	6	-68.9	-69.0	-68.9		-58.2	-41.25	16.9
HT/VHT20 M16 to M23 3 6 -68 9 -69 0 -68 9 -58 2 -41 25 16 9		HT/VHT20, M8 to M15	3	6	-68.9	-69.0	-68.9		-58.2	-41.25	16.9
111, 11120, 11120 to 1123		HT/VHT20, M16 to M23	3	6	-68.9	-69.0	-68.9		-58.2	-41.25	16.9

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HT/VHT20, M8 to M15											
HT/VHT20 M16 to M23		HT/VHT20, M0 to M7	4	6	-68.9	-69.0	-68.9	-69.0	-56.9	-41.25	15.7
HT/VHT20 Beam Forming, M0 to M7		HT/VHT20, M8 to M15	4	6	-68.9	-69.0	-68.9	-69.0	-56.9	-41.25	15.7
HT/VHT20 Beam Forming, M8 to M15		HT/VHT20, M16 to M23	4	6	-68.9	-69.0	-68.9	-69.0	-56.9	-41.25	15.7
HT/VHT20 Beam Forming, M0 to M7		HT/VHT20 Beam Forming, M0 to M7	2	9	-68.9	-69.0			-56.9	-41.25	15.7
HT/VHT20 Beam Forming, M8 to M15		HT/VHT20 Beam Forming, M8 to M15	2	6	-68.9	-69.0			-59.9	-41.25	18.7
HT/VHT20 Beam Forming, M16 to M23  3 6 -68.9 -69.0 -68.9 -69.0 -58.2 -41.25 16.9  HT/VHT20 Beam Forming, M0 to M7  4 12 -68.9 -69.0 -68.9 -69.0 -50.9 -41.25 9.7  HT/VHT20 Beam Forming, M8 to M15  4 9 -68.9 -69.0 -68.9 -69.0 -53.9 -41.25 12.7  HT/VHT20 Beam Forming, M16 to M23  4 7 -68.9 -69.0 -68.9 -69.0 -55.7 -41.25 14.5  HT/VHT20 STBC, M0 to M7  2 6 -68.9 -69.0 -68.9 -69.0 -55.7 -41.25 18.7  HT/VHT20 STBC, M0 to M7  3 6 -68.9 -69.0 -68.9 -69.0 -56.9 -41.25 18.7  HT/VHT20 STBC, M0 to M7  4 6 -68.9 -69.0 -68.9 -69.0 -56.9 -41.25 15.7  Non HT20, 6 to 54 Mbps  1 6 -68.7 -68.8 -69.0 -69.0 -56.9 -41.25 15.7  Non HT20, 6 to 54 Mbps  3 6 -68.7 -68.8 -68.8 -58.0 -41.25 16.7  Non HT20, 6 to 54 Mbps  3 6 -68.7 -68.8 -68.8 -58.0 -41.25 15.5  Non HT20 Beam Forming, 6 to 54 Mbps  3 1 1 -68.7 -68.8 -68.8 -68.8 -56.8 -41.25 15.5  Non HT20 Beam Forming, 6 to 54 Mbps  3 1 1 -68.7 -68.8 -68.8 -68.8 -56.8 -41.25 15.5  Non HT20 Beam Forming, 6 to 54 Mbps  4 12 -68.7 -68.8 -68.8 -68.8 -56.8 -41.25 15.9  HT/VHT20, M0 to M7  1 6 -68.9 -68.8 -68.8 -68.8 -59.8 -41.25 15.9  HT/VHT20, M0 to M7  1 6 -68.9 -68.8 -68.8 -68.8 -59.8 -41.25 18.6  HT/VHT20, M0 to M7  3 6 -68.9 -68.8 -68.8 -68.8 -59.8 -41.25 18.6  HT/VHT20, M0 to M7  4 6 -68.9 -68.8 -68.8 -68.8 -59.8 -41.25 18.6  HT/VHT20, M0 to M7  4 6 -68.9 -68.8 -68.8 -68.8 -59.8 -41.25 18.6  HT/VHT20, M0 to M7  4 6 -68.9 -68.8 -68.8 -68.8 -59.8 -41.25 18.6  HT/VHT20, M1 to M15  3 6 -68.9 -68.8 -68.8 -68.8 -57.3 -41.25 16.0  HT/VHT20, M1 to M3  3 6 -68.9 -68.8 -66.8 -66.8 -57.3 -41.25 14.9  HT/VHT20, M1 to M7  4 6 -68.9 -68.8 -66.8 -66.8 -66.8 -57.3 -41.25 14.9  HT/VHT20 Beam Forming, M0 to M7  4 6 -68.9 -68.8 -66.8 -66.8 -66.8 -57.3 -41.25 14.9  HT/VHT20 Beam Forming, M0 to M7  4 6 -68.9 -68.8 -66.8 -66.8 -66.8 -57.3 -41.25 14.9  HT/VHT20 Beam Forming, M0 to M7  4 6 -68.9 -68.8 -66.8 -66.8 -66.8 -57.3 -41.25 14.9  HT/VHT20 Beam Forming, M0 to M7  4 6 -68.9 -68.8 -66.8 -66.8 -66.8 -57.3 -41.25 14.9  HT/VHT20 Beam Forming, M0 to M7  4 6 -68.9 -68.8 -66.8 -66.8 -66.8 -57.3 -41.25 14.9  HT/VHT2		HT/VHT20 Beam Forming, M0 to M7	3	11	-68.9	-69.0	-68.9		-53.4	-41.25	12.1
HT/VHT20 Beam Forming, M0 to M7		HT/VHT20 Beam Forming, M8 to M15	3	8	-68.9	-69.0	-68.9		-56.4	-41.25	15.1
HT/VHT20 Beam Forming, M8 to M15		HT/VHT20 Beam Forming, M16 to M23	3	6	-68.9	-69.0	-68.9		-58.2	-41.25	16.9
HT/VHT20 Beam Forming, M16 to M23		HT/VHT20 Beam Forming, M0 to M7	4	12	-68.9	-69.0	-68.9	-69.0	-50.9	-41.25	9.7
HT/VHT20 STBC, M0 to M7    1		HT/VHT20 Beam Forming, M8 to M15	4	9	-68.9	-69.0	-68.9	-69.0	-53.9	-41.25	12.7
HT/VHT20 STBC, M0 to M7    A   6   -68.9   -69.0   -68.9   -69.0   -58.2   -41.25   16.9		HT/VHT20 Beam Forming, M16 to M23	4	7	-68.9	-69.0	-68.9	-69.0	-55.7	-41.25	14.5
Non HT20, 6 to 54 Mbps		HT/VHT20 STBC, M0 to M7	2	6	-68.9	-69.0			-59.9	-41.25	18.7
Non HT20, 6 to 54 Mbps		HT/VHT20 STBC, M0 to M7	3	6	-68.9	-69.0	-68.9		-58.2	-41.25	16.9
Non HT20, 6 to 54 Mbps		HT/VHT20 STBC, M0 to M7	4	6	-68.9	-69.0	-68.9	-69.0	-56.9	-41.25	15.7
Non HT20, 6 to 54 Mbps											
Non HT20, 6 to 54 Mbps		Non HT20, 6 to 54 Mbps	1	6	-68.7				-62.7	-41.25	21.5
Non HT20, 6 to 54 Mbps  4 6 -68.7 -68.8 -68.8 -56.8 -41.25 15.5  Non HT20 Beam Forming, 6 to 54 Mbps  3 11 -68.7 -68.8 -68.8 -56.8 -56.7 -41.25 11.9  Non HT20 Beam Forming, 6 to 54 Mbps  3 11 -68.7 -68.8 -68.8 -53.2 -41.25 11.9  Non HT20 Beam Forming, 6 to 54 Mbps  4 12 -68.7 -68.8 -68.8 -53.2 -41.25 11.9  Non HT20 Beam Forming, 6 to 54 Mbps  4 12 -68.7 -68.8 -68.8 -68.8 -50.8 -41.25 9.5  HT/VHT20, M0 to M7		Non HT20, 6 to 54 Mbps	2	6	-68.7	-68.8			-59.7	-41.25	18.5
Non HT20 Beam Forming, 6 to 54 Mbps   2   9   -68.7   -68.8     -56.7   -41.25   15.5		Non HT20, 6 to 54 Mbps	3	6	-68.7	-68.8	-68.8		-58.0	-41.25	16.7
Non HT20 Beam Forming, 6 to 54 Mbps Non HT20 Beam Forming, 6 to 54 Mbps Non HT20 Beam Forming, 6 to 54 Mbps HT/VHT20, M0 to M7 HT20 Beam Forming, 6 to 54 Mbps HT/VHT20, M0 to M7 HT20 Beam Forming, 6 to 54 Mbps HT/VHT20, M0 to M7 HT20, M0 to M23 HT2		Non HT20, 6 to 54 Mbps	4	6	-68.7	-68.8	-68.8	-68.8	-56.8	-41.25	15.5
Non HT20 Beam Forming, 6 to 54 Mbps		Non HT20 Beam Forming, 6 to 54 Mbps	2	9	-68.7	-68.8			-56.7	-41.25	15.5
HT/VHT20, M0 to M7  1 6 -68.9		Non HT20 Beam Forming, 6 to 54 Mbps	3	11	-68.7	-68.8	-68.8		-53.2	-41.25	11.9
HT/VHT20, M0 to M7  2 6 -68.9 -68.8 -59.8 -41.25 18.6  HT/VHT20, M8 to M15  2 6 -68.9 -68.8 -66.8 -59.8 -41.25 18.6  HT/VHT20, M8 to M15  3 6 -68.9 -68.8 -66.8 -57.3 -41.25 16.0  HT/VHT20, M8 to M15  3 6 -68.9 -68.8 -66.8 -57.3 -41.25 16.0  HT/VHT20, M16 to M23  3 6 -68.9 -68.8 -66.8 -57.3 -41.25 16.0  HT/VHT20, M0 to M7  4 6 -68.9 -68.8 -66.8 -68.4 -56.1 -41.25 14.9  HT/VHT20, M8 to M15  4 6 -68.9 -68.8 -66.8 -68.4 -56.1 -41.25 14.9  HT/VHT20, M16 to M23  4 6 -68.9 -68.8 -66.8 -68.4 -56.1 -41.25 14.9  HT/VHT20 Beam Forming, M0 to M7  2 9 -68.9 -68.8 -66.8 -68.4 -56.1 -41.25 14.9  HT/VHT20 Beam Forming, M8 to M15  2 6 -68.9 -68.8 -66.8 -68.4 -56.1 -41.25 18.6  HT/VHT20 Beam Forming, M0 to M7  3 11 -68.9 -68.8 -66.8 -52.5 -41.25 11.2  HT/VHT20 Beam Forming, M8 to M15  3 8 -68.9 -68.8 -66.8 -55.5 -41.25 14.2  HT/VHT20 Beam Forming, M0 to M7  4 12 -68.9 -68.8 -66.8 -68.4 -50.1 -41.25 19.0  HT/VHT20 Beam Forming, M8 to M15  4 9 -68.9 -68.8 -66.8 -68.4 -50.1 -41.25 19.0  HT/VHT20 Beam Forming, M0 to M7  4 12 -68.9 -68.8 -66.8 -68.4 -50.1 -41.25 19.0  HT/VHT20 Beam Forming, M0 to M7  4 12 -68.9 -68.8 -66.8 -68.4 -50.1 -41.25 19.0  HT/VHT20 Beam Forming, M8 to M15  4 7 -68.9 -68.8 -66.8 -66.8 -68.4 -50.1 -41.25 11.9  HT/VHT20 STBC, M0 to M7  2 6 -68.9 -68.8 -66.8 -66.8 -68.4 -50.1 -41.25 11.9  HT/VHT20 STBC, M0 to M7  4 7 -68.9 -68.8 -66.8 -66.8 -68.4 -50.1 -41.25 11.9  HT/VHT20 STBC, M0 to M7  4 7 -68.9 -68.8 -66.8 -66.8 -68.4 -50.1 -41.25 11.9  HT/VHT20 STBC, M0 to M7  4 12 -68.9 -68.8 -66.8 -66.8 -68.4 -50.1 -41.25 11.9  HT/VHT20 STBC, M0 to M7  4 12 -68.9 -68.8 -66.8 -66.8 -66.8 -68.4 -50.1 -41.25 11.9  HT/VHT20 STBC, M0 to M7  4 12 -68.9 -68.8 -66.8 -66.8 -68.4 -50.1 -41.25 11.9  HT/VHT20 STBC, M0 to M7  4 12 -68.9 -68.8 -66.8 -66.8 -68.4 -50.1 -41.25 11.9		Non HT20 Beam Forming, 6 to 54 Mbps	4	12	-68.7	-68.8	-68.8	-68.8	-50.8	-41.25	9.5
HT/VHT20, M8 to M15  2 6 -68.9 -68.8 -66.8 -57.3 -41.25 18.6  HT/VHT20, M0 to M7  3 6 -68.9 -68.8 -66.8 -57.3 -41.25 16.0  HT/VHT20, M8 to M15  3 6 -68.9 -68.8 -66.8 -57.3 -41.25 16.0  HT/VHT20, M16 to M23  3 6 -68.9 -68.8 -66.8 -57.3 -41.25 16.0  HT/VHT20, M0 to M7  4 6 -68.9 -68.8 -66.8 -68.4 -56.1 -41.25 14.9  HT/VHT20, M8 to M15  4 6 -68.9 -68.8 -66.8 -68.4 -56.1 -41.25 14.9  HT/VHT20, M16 to M23  4 6 -68.9 -68.8 -66.8 -68.4 -56.1 -41.25 14.9  HT/VHT20, M16 to M23  4 6 -68.9 -68.8 -66.8 -68.4 -56.1 -41.25 14.9  HT/VHT20 Beam Forming, M0 to M7  2 9 -68.9 -68.8 -66.8 -68.4 -56.1 -41.25 15.6  HT/VHT20 Beam Forming, M8 to M15  2 6 -68.9 -68.8 -66.8 -59.8 -41.25 18.6  HT/VHT20 Beam Forming, M0 to M7  3 11 -68.9 -68.8 -66.8 -52.5 -41.25 11.2  HT/VHT20 Beam Forming, M8 to M15  3 8 -68.9 -68.8 -66.8 -55.5 -41.25 14.2  HT/VHT20 Beam Forming, M16 to M23  3 6 -68.9 -68.8 -66.8 -68.4 -50.1 -41.25 14.9  HT/VHT20 Beam Forming, M0 to M7  4 12 -68.9 -68.8 -66.8 -68.4 -50.1 -41.25 11.9  HT/VHT20 Beam Forming, M8 to M15  4 7 -68.9 -68.8 -66.8 -68.4 -50.1 -41.25 11.9  HT/VHT20 Beam Forming, M16 to M23  4 7 -68.9 -68.8 -66.8 -68.4 -54.9 -41.25 13.7  HT/VHT20 STBC, M0 to M7  2 6 -68.9 -68.8 -66.8 -68.4 -54.9 -41.25 13.7  HT/VHT20 STBC, M0 to M7  3 11 -68.9 -68.8 -66.8 -68.4 -50.1 -41.25 11.9  HT/VHT20 Beam Forming, M8 to M15  4 9 -68.9 -68.8 -66.8 -68.4 -50.1 -41.25 11.9  HT/VHT20 Beam Forming, M16 to M23  4 7 -68.9 -68.8 -66.8 -68.4 -54.9 -41.25 13.7  HT/VHT20 STBC, M0 to M7  4 12 -68.9 -68.8 -66.8 -68.4 -54.9 -41.25 13.7		HT/VHT20, M0 to M7	1	6	-68.9				-62.9	-41.25	21.7
HT/VHT20, M0 to M7  HT/VHT20, M8 to M15  HT/VHT20, M8 to M23  HT/VHT20, M0 to M7  HT/VHT20, M0 to M7  HT/VHT20, M0 to M23  HT/VHT20, M0 to M7  HT/VHT20, M16 to M23  HT/VHT20 Beam Forming, M0 to M7  HT/VHT20 Beam Forming, M0 to M7  HT/VHT20 Beam Forming, M8 to M15  HT/VHT20 Beam Forming, M16 to M23  HT/VHT20 Beam Forming, M8 to M15  HT/VHT20 Beam Forming, M16 to M23  HT/WHT20 Beam Forming, M16 to M23  HT		HT/VHT20, M0 to M7	2	6	-68.9	-68.8			-59.8	-41.25	18.6
HT/VHT20, M8 to M15  HT/VHT20, M16 to M23  HT/VHT20, M0 to M7  HT/VHT20, M0 to M7  HT/VHT20, M0 to M7  HT/VHT20, M16 to M23  HT/VHT20, M16 to M23  HT/VHT20, M8 to M15  HT/VHT20, M8 to M15  HT/VHT20, M8 to M15  HT/VHT20, M8 to M15  HT/VHT20, M16 to M23  HT/VHT20, M16 to M23  HT/VHT20, M16 to M23  HT/VHT20, M16 to M23  HT/VHT20 Beam Forming, M0 to M7  HT/VHT20 Beam Forming, M8 to M15  HT/VHT20 Beam Forming, M8 to M15  HT/VHT20 Beam Forming, M0 to M7  HT/VHT20 Beam Forming, M8 to M15  HT/VHT20 Beam Forming, M16 to M23  HT/VHT20 Beam Forming, M8 to M15  HT/VHT20 Beam Forming, M8 to M15  HT/VHT20 Beam Forming, M8 to M15  HT/VHT20 Beam Forming, M16 to M23  HT/VHT20 Beam Forming, M8 to M15  HT/VHT20 Beam Forming, M16 to M23  HT/VH		HT/VHT20, M8 to M15	2	6	-68.9	-68.8			-59.8	-41.25	18.6
HT/VHT20, M16 to M23  HT/VHT20, M0 to M7  HT/VHT20, M0 to M7  HT/VHT20, M8 to M15  HT/VHT20, M8 to M15  HT/VHT20, M16 to M23  HT/VHT20, M8 to M15  HT/VHT20, M16 to M23  HT/VHT20, M16 to M23  HT/VHT20, M16 to M23  HT/VHT20 Beam Forming, M0 to M7  HT/VHT20 Beam Forming, M0 to M7  HT/VHT20 Beam Forming, M8 to M15  HT/VHT20 Beam Forming, M16 to M23  HT/VHT20 Beam Forming, M16 to M23  HT/VHT20 Beam Forming, M8 to M15  HT/VHT20 Beam Forming, M16 to M23  HT/VHT20 Beam Forming, M16 to M23  HT/VHT20 Beam Forming, M16 to M23  HT/VHT20 STBC, M0 to M7  HT/VHT20 STBC, M0 to M7  HT/VHT20 STBC, M0 to M7		HT/VHT20, M0 to M7	3	6	-68.9	-68.8	-66.8		-57.3	-41.25	16.0
HT/VHT20, M0 to M7  HT/VHT20, M8 to M15  HT/VHT20, M8 to M15  HT/VHT20, M16 to M23  HT/VHT20 Beam Forming, M0 to M7  HT/VHT20 Beam Forming, M0 to M7  HT/VHT20 Beam Forming, M8 to M15  HT/VHT20 Beam Forming, M8 to M15  HT/VHT20 Beam Forming, M0 to M7  HT/VHT20 Beam Forming, M8 to M15  HT/VHT20 Beam Forming, M16 to M23  HT/VHT20 Beam Forming, M16 to M23  HT/VHT20 Beam Forming, M8 to M15  HT/VHT20 Beam Forming, M16 to M23  HT/VHT20 STBC, M0 to M7  HT/VHT20 STBC, M0 to M7		HT/VHT20, M8 to M15	3	6	-68.9	-68.8	-66.8		-57.3	-41.25	16.0
HT/VHT20, M8 to M15  4 6 -68.9 -68.8 -66.8 -68.4 -56.1 -41.25 14.9  HT/VHT20, M16 to M23  4 6 -68.9 -68.8 -66.8 -66.8 -68.4 -56.1 -41.25 14.9  HT/VHT20 Beam Forming, M0 to M7  2 9 -68.9 -68.8 -68.8 -56.8 -41.25 15.6  HT/VHT20 Beam Forming, M8 to M15  2 6 -68.9 -68.8 -66.8 -59.8 -41.25 18.6  HT/VHT20 Beam Forming, M0 to M7  3 11 -68.9 -68.8 -66.8 -52.5 -41.25 11.2  HT/VHT20 Beam Forming, M8 to M15  3 8 -68.9 -68.8 -66.8 -55.5 -41.25 14.2  HT/VHT20 Beam Forming, M16 to M23  3 6 -68.9 -68.8 -66.8 -57.3 -41.25 16.0  HT/VHT20 Beam Forming, M0 to M7  4 12 -68.9 -68.8 -66.8 -68.4 -50.1 -41.25 8.9  HT/VHT20 Beam Forming, M8 to M15  4 9 -68.9 -68.8 -66.8 -68.4 -53.1 -41.25 11.9  HT/VHT20 Beam Forming, M16 to M23  4 7 -68.9 -68.8 -66.8 -68.4 -54.9 -41.25 13.7  HT/VHT20 STBC, M0 to M7  2 6 -68.9 -68.8 -68.8 -66.8 -68.4 -54.9 -41.25 13.7	8	HT/VHT20, M16 to M23	3	6	-68.9	-68.8	-66.8		-57.3	-41.25	16.0
HT/VHT20, M16 to M23       4       6       -68.9       -68.8       -66.8       -68.4       -56.1       -41.25       14.9         HT/VHT20 Beam Forming, M0 to M7       2       9       -68.9       -68.8       -56.8       -41.25       15.6         HT/VHT20 Beam Forming, M8 to M15       2       6       -68.9       -68.8       -59.8       -41.25       18.6         HT/VHT20 Beam Forming, M0 to M7       3       11       -68.9       -68.8       -66.8       -52.5       -41.25       11.2         HT/VHT20 Beam Forming, M16 to M23       3       6       -68.9       -68.8       -66.8       -57.3       -41.25       16.0         HT/VHT20 Beam Forming, M0 to M7       4       12       -68.9       -68.8       -66.8       -68.4       -50.1       -41.25       11.9         HT/VHT20 Beam Forming, M8 to M15       4       9       -68.9       -68.8       -66.8       -68.4       -50.1       -41.25       11.9         HT/VHT20 Beam Forming, M16 to M23       4       7       -68.9       -68.8       -66.8       -68.4       -53.1       -41.25       13.7         HT/VHT20 STBC, M0 to M7       2       6       -68.9       -68.8       -66.8       -68.4       -59.8	53	HT/VHT20, M0 to M7	4	6	-68.9	-68.8	-66.8	-68.4	-56.1	-41.25	14.9
HT/VHT20 Beam Forming, M0 to M7       2       9       -68.9       -68.8       -56.8       -41.25       15.6         HT/VHT20 Beam Forming, M8 to M15       2       6       -68.9       -68.8       -59.8       -41.25       18.6         HT/VHT20 Beam Forming, M0 to M7       3       11       -68.9       -68.8       -66.8       -52.5       -41.25       11.2         HT/VHT20 Beam Forming, M8 to M15       3       8       -68.9       -68.8       -66.8       -55.5       -41.25       14.2         HT/VHT20 Beam Forming, M0 to M7       4       12       -68.9       -68.8       -66.8       -57.3       -41.25       8.9         HT/VHT20 Beam Forming, M8 to M15       4       9       -68.9       -68.8       -66.8       -68.4       -53.1       -41.25       11.9         HT/VHT20 Beam Forming, M16 to M23       4       7       -68.9       -68.8       -66.8       -68.4       -53.1       -41.25       13.7         HT/VHT20 STBC, M0 to M7       2       6       -68.9       -68.8       -66.8       -68.4       -54.9       -41.25       13.7         HT/VHT20 STBC, M0 to M7       2       6       -68.9       -68.8       -66.8       -59.8       -41.25       18.6		HT/VHT20, M8 to M15	4	6	-68.9	-68.8	-66.8	-68.4	-56.1	-41.25	14.9
HT/VHT20 Beam Forming, M8 to M15       2       6       -68.9       -68.8       -59.8       -41.25       18.6         HT/VHT20 Beam Forming, M0 to M7       3       11       -68.9       -68.8       -66.8       -52.5       -41.25       11.2         HT/VHT20 Beam Forming, M8 to M15       3       8       -68.9       -68.8       -66.8       -55.5       -41.25       14.2         HT/VHT20 Beam Forming, M16 to M23       3       6       -68.9       -68.8       -66.8       -57.3       -41.25       16.0         HT/VHT20 Beam Forming, M0 to M7       4       12       -68.9       -68.8       -66.8       -68.4       -50.1       -41.25       8.9         HT/VHT20 Beam Forming, M8 to M15       4       9       -68.9       -68.8       -66.8       -68.4       -53.1       -41.25       11.9         HT/VHT20 Beam Forming, M16 to M23       4       7       -68.9       -68.8       -66.8       -68.4       -54.9       -41.25       13.7         HT/VHT20 STBC, M0 to M7       2       6       -68.9       -68.8       -66.8       -59.8       -41.25       18.6		HT/VHT20, M16 to M23	4	6	-68.9	-68.8	-66.8	-68.4	-56.1	-41.25	14.9
HT/VHT20 Beam Forming, M0 to M7       3       11       -68.9       -68.8       -66.8       -52.5       -41.25       11.2         HT/VHT20 Beam Forming, M8 to M15       3       8       -68.9       -68.8       -66.8       -55.5       -41.25       14.2         HT/VHT20 Beam Forming, M16 to M23       3       6       -68.9       -68.8       -66.8       -57.3       -41.25       16.0         HT/VHT20 Beam Forming, M0 to M7       4       12       -68.9       -68.8       -66.8       -68.4       -50.1       -41.25       8.9         HT/VHT20 Beam Forming, M8 to M15       4       9       -68.9       -68.8       -66.8       -68.4       -53.1       -41.25       11.9         HT/VHT20 Beam Forming, M16 to M23       4       7       -68.9       -68.8       -66.8       -68.4       -54.9       -41.25       13.7         HT/VHT20 STBC, M0 to M7       2       6       -68.9       -68.8       -68.8       -69.4       -59.8       -41.25       18.6		HT/VHT20 Beam Forming, M0 to M7	2	9	-68.9	-68.8			-56.8	-41.25	15.6
HT/VHT20 Beam Forming, M8 to M15       3       8       -68.9       -68.8       -66.8       -55.5       -41.25       14.2         HT/VHT20 Beam Forming, M16 to M23       3       6       -68.9       -68.8       -66.8       -57.3       -41.25       16.0         HT/VHT20 Beam Forming, M0 to M7       4       12       -68.9       -68.8       -66.8       -68.4       -50.1       -41.25       8.9         HT/VHT20 Beam Forming, M8 to M15       4       9       -68.9       -68.8       -66.8       -68.4       -53.1       -41.25       11.9         HT/VHT20 Beam Forming, M16 to M23       4       7       -68.9       -68.8       -66.8       -68.4       -54.9       -41.25       13.7         HT/VHT20 STBC, M0 to M7       2       6       -68.9       -68.8       -       -59.8       -41.25       18.6		HT/VHT20 Beam Forming, M8 to M15	2	6	-68.9	-68.8			-59.8	-41.25	18.6
HT/VHT20 Beam Forming, M16 to M23       3       6       -68.9       -68.8       -66.8       -57.3       -41.25       16.0         HT/VHT20 Beam Forming, M0 to M7       4       12       -68.9       -68.8       -66.8       -68.4       -50.1       -41.25       8.9         HT/VHT20 Beam Forming, M8 to M15       4       9       -68.9       -68.8       -66.8       -68.4       -53.1       -41.25       11.9         HT/VHT20 Beam Forming, M16 to M23       4       7       -68.9       -68.8       -66.8       -68.4       -54.9       -41.25       13.7         HT/VHT20 STBC, M0 to M7       2       6       -68.9       -68.8       -68.8       -59.8       -41.25       18.6		HT/VHT20 Beam Forming, M0 to M7	3	11	-68.9	-68.8	-66.8		-52.5	-41.25	11.2
HT/VHT20 Beam Forming, M0 to M7       4       12       -68.9       -68.8       -66.8       -68.4       -50.1       -41.25       8.9         HT/VHT20 Beam Forming, M8 to M15       4       9       -68.9       -68.8       -66.8       -68.4       -53.1       -41.25       11.9         HT/VHT20 Beam Forming, M16 to M23       4       7       -68.9       -68.8       -66.8       -68.4       -54.9       -41.25       13.7         HT/VHT20 STBC, M0 to M7       2       6       -68.9       -68.8       -68.8       -59.8       -41.25       18.6		HT/VHT20 Beam Forming, M8 to M15	3	8	-68.9	-68.8	-66.8		-55.5	-41.25	14.2
HT/VHT20 Beam Forming, M8 to M15       4       9       -68.9       -68.8       -66.8       -68.4       -53.1       -41.25       11.9         HT/VHT20 Beam Forming, M16 to M23       4       7       -68.9       -68.8       -66.8       -68.4       -54.9       -41.25       13.7         HT/VHT20 STBC, M0 to M7       2       6       -68.9       -68.8       -68.8       -59.8       -41.25       18.6		HT/VHT20 Beam Forming, M16 to M23	3	6	-68.9	-68.8	-66.8		-57.3	-41.25	16.0
HT/VHT20 Beam Forming, M16 to M23       4       7       -68.9       -68.8       -66.8       -68.4       -54.9       -41.25       13.7         HT/VHT20 STBC, M0 to M7       2       6       -68.9       -68.8       -59.8       -41.25       18.6		HT/VHT20 Beam Forming, M0 to M7	4	12	-68.9	-68.8	-66.8	-68.4	-50.1	-41.25	8.9
HT/VHT20 STBC, M0 to M7 2 6 -68.9 -68.8 -59.8 -41.25 18.6		HT/VHT20 Beam Forming, M8 to M15	4	9	-68.9	-68.8	-66.8	-68.4	-53.1	-41.25	11.9
		HT/VHT20 Beam Forming, M16 to M23	4	7	-68.9	-68.8	-66.8	-68.4	-54.9	-41.25	13.7
HT/VHT20 STBC, M0 to M7 3 6 -68.9 -68.8 -66.8 -57.3 -41.25 16.0		HT/VHT20 STBC, M0 to M7	2	6	-68.9	-68.8			-59.8	-41.25	18.6
		HT/VHT20 STBC, M0 to M7	3	6	-68.9	-68.8	-66.8		-57.3	-41.25	16.0

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	HT/VHT20 STBC, M0 to M7	4	6	-68.9	-68.8	-66.8	-68.4	-56.1	-41.25	14.9
	Non HT40, 6 to 54 Mbps	1	6	-68.9				-62.9	-41.25	21.7
	Non HT40, 6 to 54 Mbps	2	6	-68.9	-66.7			-58.7	-41.25	17.4
	Non HT40, 6 to 54 Mbps	3	6	-68.9	-66.7	-68.7		-57.2	-41.25	16.0
	Non HT40, 6 to 54 Mbps	4	6	-68.9	-66.7	-68.7	-66.8	-55.6	-41.25	14.4
	HT/VHT40, M0 to M7	1	6	-66.8				-60.8	-41.25	19.6
	HT/VHT40, M0 to M7	2	6	-66.8	-68.9			-58.7	-41.25	17.5
	HT/VHT40, M8 to M15	2	6	-66.8	-68.9			-58.7	-41.25	17.5
	HT/VHT40, M0 to M7	3	6	-66.8	-68.9	-68.9		-57.3	-41.25	16.1
	HT/VHT40, M8 to M15	3	6	-66.8	-68.9	-68.9		-57.3	-41.25	16.1
	HT/VHT40, M16 to M23	3	6	-66.8	-68.9	-68.9		-57.3	-41.25	16.1
	HT/VHT40, M0 to M7	4	6	-66.8	-68.9	-68.9	-68.7	-56.2	-41.25	15.0
10	HT/VHT40, M8 to M15	4	6	-66.8	-68.9	-68.9	-68.7	-56.2	-41.25	15.0
5310	HT/VHT40, M16 to M23	4	6	-66.8	-68.9	-68.9	-68.7	-56.2	-41.25	15.0
	HT/VHT40 Beam Forming, M0 to M7	2	9	-66.8	-68.9			-55.7	-41.25	14.5
	HT/VHT40 Beam Forming, M8 to M15	2	6	-66.8	-68.9			-58.7	-41.25	17.5
	HT/VHT40 Beam Forming, M0 to M7	3	11	-66.8	-68.9	-68.9		-52.5	-41.25	11.3
	HT/VHT40 Beam Forming, M8 to M15	3	8	-66.8	-68.9	-68.9		-55.5	-41.25	14.3
	HT/VHT40 Beam Forming, M16 to M23	3	6	-66.8	-68.9	-68.9		-57.3	-41.25	16.1
	HT/VHT40 Beam Forming, M0 to M7	4	12	-66.8	-68.9	-68.9	-68.7	-50.2	-41.25	9.0
	HT/VHT40 Beam Forming, M8 to M15	4	9	-66.8	-68.9	-68.9	-68.7	-53.2	-41.25	12.0
	HT/VHT40 Beam Forming, M16 to M23	4	7	-66.8	-68.9	-68.9	-68.7	-55.0	-41.25	13.8
	HT/VHT40 STBC, M0 to M7	2	6	-66.8	-68.9			-58.7	-41.25	17.5
	HT/VHT40 STBC, M0 to M7	3	6	-66.8	-68.9	-68.9		-57.3	-41.25	16.1
	HT/VHT40 STBC, M0 to M7	4	6	-66.8	-68.9	-68.9	-68.7	-56.2	-41.25	15.0
				•						
	Non HT20, 6 to 54 Mbps	1	6	-68.3				-62.3	-41.25	21.1
	Non HT20, 6 to 54 Mbps	2	6	-68.3	-68.4			-59.3	-41.25	18.1
	Non HT20, 6 to 54 Mbps	3	6	-68.3	-68.4	-68.2		-57.5	-41.25	16.3
	Non HT20, 6 to 54 Mbps	4	6	-68.3	-68.4	-68.2	-68.3	-56.3	-41.25	15.0
	Non HT20 Beam Forming, 6 to 54 Mbps	2	9	-68.3	-68.4			-56.3	-41.25	15.1
	Non HT20 Beam Forming, 6 to 54 Mbps	3	11	-68.3	-68.4	-68.2		-52.7	-41.25	11.5
20	Non HT20 Beam Forming, 6 to 54 Mbps	4	12	-68.3	-68.4	-68.2	-68.3	-50.3	-41.25	9.0
5320	HT/VHT20, M0 to M7	1	6	-68.4				-62.4	-41.25	21.2
	HT/VHT20, M0 to M7	2	6	-68.4	-68.1			-59.2	-41.25	18.0
	HT/VHT20, M8 to M15	2	6	-68.4	-68.1			-59.2	-41.25	18.0
	HT/VHT20, M0 to M7	3	6	-68.4	-68.1	-68.2		-57.5	-41.25	16.2
	HT/VHT20, M8 to M15	3	6	-68.4	-68.1	-68.2		-57.5	-41.25	16.2
	HT/VHT20, M16 to M23	3	6	-68.4	-68.1	-68.2		-57.5	-41.25	16.2
	HT/VHT20, M0 to M7	4	6	-68.4	-68.1	-68.2	-68.4	-56.3	-41.25	15.0

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HT/VHT20, M8 to M15	4	6	-68.4	-68.1	-68.2	-68.4	-56.3	-41.25	15.0
HT/VHT20, M16 to M23	4	6	-68.4	-68.1	-68.2	-68.4	-56.3	-41.25	15.0
HT/VHT20 Beam Forming, M0 to M7	2	9	-68.4	-68.1			-56.2	-41.25	15.0
HT/VHT20 Beam Forming, M8 to M15	2	6	-68.4	-68.1			-59.2	-41.25	18.0
HT/VHT20 Beam Forming, M0 to M7	3	11	-68.4	-68.1	-68.2		-52.7	-41.25	11.4
HT/VHT20 Beam Forming, M8 to M15	3	8	-68.4	-68.1	-68.2		-55.7	-41.25	14.4
HT/VHT20 Beam Forming, M16 to M23	3	6	-68.4	-68.1	-68.2		-57.5	-41.25	16.2
HT/VHT20 Beam Forming, M0 to M7	4	12	-68.4	-68.1	-68.2	-68.4	-50.3	-41.25	9.0
HT/VHT20 Beam Forming, M8 to M15	4	9	-68.4	-68.1	-68.2	-68.4	-53.3	-41.25	12.0
HT/VHT20 Beam Forming, M16 to M23	4	7	-68.4	-68.1	-68.2	-68.4	-55.1	-41.25	13.8
HT/VHT20 STBC, M0 to M7	2	6	-68.4	-68.1			-59.2	-41.25	18.0
HT/VHT20 STBC, M0 to M7	3	6	-68.4	-68.1	-68.2		-57.5	-41.25	16.2
HT/VHT20 STBC, M0 to M7	4	6	-68.4	-68.1	-68.2	-68.4	-56.3	-41.25	15.0

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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)
	Non HT160, 6 to 54 Mbps	1	6	-58.4				-52.4	-21.25	31.2
	Non HT160, 6 to 54 Mbps	2	6	-58.4	-60.2			-50.2	-21.25	28.9
	Non HT160, 6 to 54 Mbps	3	6	-58.4	-60.2	-35.9		-29.9	-21.25	8.6
	Non HT160, 6 to 54 Mbps	4	6	-58.4	-60.2	-35.9	-38.8	-28.1	-21.25	6.8
	VHT160, M0.1 to M9.1	1	6	-59.0				-53.0	-21.25	31.8
	VHT160, M0.1 to M9.1	2	6	-59.0	-59.1			-50.0	-21.25	28.8
	VHT160, M0.2 to M9.2	2	6	-59.0	-59.1			-50.0	-21.25	28.8
	VHT160, M0.1 to M9.1	3	6	-59.0	-59.1	-41.2		-35.1	-21.25	13.8
	VHT160, M0.2 to M9.2	3	6	-59.0	-59.1	-41.2		-35.1	-21.25	13.8
	VHT160, M0.3 to M9.3	3	6	-59.0	-59.1	-41.2		-35.1	-21.25	13.8
	VHT160, M0.1 to M9.1	4	6	-59.0	-59.1	-41.2	-59.8	-35.0	-21.25	13.8
5250	VHT160, M0.2 to M9.2	4	6	-59.0	-59.1	-41.2	-59.8	-35.0	-21.25	13.8
52	VHT160, M0.3 to M9.3	4	6	-59.0	-59.1	-41.2	-59.8	-35.0	-21.25	13.8
	VHT160 Beam Forming, M0.1 to M9.1	2	6	-59.0	-59.1			-50.0	-21.25	28.8
	VHT160 Beam Forming, M0.2 to M9.2	2	6	-59.0	-59.1			-50.0	-21.25	28.8
	VHT160 Beam Forming, M0.1 to M9.1	3	6	-59.0	-59.1	-41.2		-35.1	-21.25	13.8
	VHT160 Beam Forming, M0.2 to M9.2	3	6	-59.0	-59.1	-41.2		-35.1	-21.25	13.8
	VHT160 Beam Forming, M0.3 to M9.3	3	6	-59.0	-59.1	-41.2		-35.1	-21.25	13.8
	VHT160 Beam Forming, M0.1 to M9.1	4	6	-59.0	-59.1	-41.2	-59.8	-35.0	-21.25	13.8
	VHT160 Beam Forming, M0.2 to M9.2	4	6	-59.0	-59.1	-41.2	-59.8	-35.0	-21.25	13.8
	VHT160 Beam Forming, M0.3 to M9.3	4	6	-59.0	-59.1	-41.2	-59.8	-35.0	-21.25	13.8
	VHT160 STBC, M0.1 to M9.1	2	6	-59.0	-59.1			-50.0	-21.25	28.8
	VHT160 STBC, M0.1 to M9.1	3	6	-59.0	-59.1	-41.2		-35.1	-21.25	13.8
	VHT160 STBC, M0.1 to M9.1	4	6	-59.0	-59.1	-41.2	-59.8	-35.0	-21.25	13.8
	Non HT20, 6 to 54 Mbps	1	6	-62.1				-56.1	-21.25	34.9
	Non HT20, 6 to 54 Mbps	2	6	-62.1	-51.3			-45.0	-21.25	23.7
	Non HT20, 6 to 54 Mbps	3	6	-62.1	-51.3	-50.2		-41.5	-21.25	20.3
0	Non HT20, 6 to 54 Mbps	4	6	-62.1	-51.3	-50.2	-48.7	-39.1	-21.25	17.8
5260	Non HT20 Beam Forming, 6 to 54 Mbps	2	9	-62.1	-51.3			-42.0	-21.25	20.7
2,	Non HT20 Beam Forming, 6 to 54 Mbps	3	11	-62.1	-51.3	-50.2		-36.7	-21.25	15.5
	Non HT20 Beam Forming, 6 to 54 Mbps	4	12	-62.1	-51.3	-50.2	-48.7	-33.1	-21.25	11.8
	HT/VHT20, M0 to M7	1	6	-61.4				-55.4	-21.25	34.2
	HT/VHT20, M0 to M7	2	6	-61.4	-59.9			-51.6	-21.25	30.3

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	HT/VHT20, M8 to M15	2	6	-61.4	-59.9			-51.6	-21.25	30.3
	HT/VHT20, M0 to M7	3	6	-61.4	-59.9	-51.9		-44.9	-21.25	23.6
	HT/VHT20, M8 to M15	3	6	-61.4	-59.9	-51.9		-44.9	-21.25	23.6
	HT/VHT20, M16 to M23	3	6	-61.4	-59.9	-51.9		-44.9	-21.25	23.6
	HT/VHT20, M0 to M7	4	6	-61.4	-59.9	-51.9	-49.4	-41.1	-21.25	19.8
	HT/VHT20, M8 to M15	4	6	-61.4	-59.9	-51.9	-49.4	-41.1	-21.25	19.8
	HT/VHT20, M16 to M23	4	6	-61.4	-59.9	-51.9	-49.4	-41.1	-21.25	19.8
	HT/VHT20 Beam Forming, M0 to M7	2	9	-61.4	-59.9			-48.6	-21.25	27.3
	HT/VHT20 Beam Forming, M8 to M15	2	6	-61.4	-59.9			-51.6	-21.25	30.3
	HT/VHT20 Beam Forming, M0 to M7	3	11	-61.4	-59.9	-51.9		-40.1	-21.25	18.8
	HT/VHT20 Beam Forming, M8 to M15	3	8	-61.4	-59.9	-51.9		-43.1	-21.25	21.8
	HT/VHT20 Beam Forming, M16 to M23	3	6	-61.4	-59.9	-51.9		-44.9	-21.25	23.6
	HT/VHT20 Beam Forming, M0 to M7	4	12	-61.4	-59.9	-51.9	-49.4	-35.1	-21.25	13.8
	HT/VHT20 Beam Forming, M8 to M15	4	9	-61.4	-59.9	-51.9	-49.4	-38.1	-21.25	16.8
	HT/VHT20 Beam Forming, M16 to M23	4	7	-61.4	-59.9	-51.9	-49.4	-39.9	-21.25	18.6
	HT/VHT20 STBC, M0 to M7	2	6	-61.4	-59.9			-51.6	-21.25	30.3
	HT/VHT20 STBC, M0 to M7	3	6	-61.4	-59.9	-51.9		-44.9	-21.25	23.6
	HT/VHT20 STBC, M0 to M7	4	6	-61.4	-59.9	-51.9	-49.4	-41.1	-21.25	19.8
			_	_	_	-	_	_	-	-
	Non HT40, 6 to 54 Mbps	1	6	-44.0				-38.0	-21.25	16.8
	Non HT40, 6 to 54 Mbps	2	6	-44.0	-46.2			-36.0	-21.25	14.7
	Non HT40, 6 to 54 Mbps	3	6	-44.0	-46.2	-44.6		-34.1	-21.25	12.8
	Non HT40, 6 to 54 Mbps	4	6	-44.0	-46.2	-44.6	-49.5	-33.6	-21.25	12.3
	HT/VHT40, M0 to M7	1	6	-49.6				-43.6	-21.25	22.4
	HT/VHT40, M0 to M7	2	6	-49.6	-50.3			-40.9	-21.25	19.7
	HT/VHT40, M8 to M15	2	6	-49.6	-50.3			-40.9	-21.25	19.7
	HT/VHT40, M0 to M7	3	6	-49.6	-50.3	-50.2		-39.3	-21.25	18.0
	HT/VHT40, M8 to M15	3	6	-49.6	-50.3	-50.2		-39.3	-21.25	18.0
	HT/VHT40, M16 to M23	3	6	-49.6	-50.3	-50.2		-39.3	-21.25	18.0
20	HT/VHT40, M0 to M7	4	6	-49.6	-50.3	-50.2	-61.1	-39.1	-21.25	17.9
5270	HT/VHT40, M8 to M15	4	6	-49.6	-50.3	-50.2	-61.1	-39.1	-21.25	17.9
	HT/VHT40, M16 to M23	4	6	-49.6	-50.3	-50.2	-61.1	-39.1	-21.25	17.9
	HT/VHT40 Beam Forming, M0 to M7	2	9	-49.6	-50.3			-37.9	-21.25	16.7
	HT/VHT40 Beam Forming, M8 to M15	2	6	-49.6	-50.3			-40.9	-21.25	19.7
	HT/VHT40 Beam Forming, M0 to M7	3	11	-49.6	-50.3	-50.2		-34.5	-21.25	13.2
	HT/VHT40 Beam Forming, M8 to M15	3	8	-49.6	-50.3	-50.2		-37.5	-21.25	16.2
	HT/VHT40 Beam Forming, M16 to M23	3	6	-49.6	-50.3	-50.2		-39.3	-21.25	18.0
	HT/VHT40 Beam Forming, M0 to M7	4	12	-49.6	-50.3	-50.2	-61.1	-33.1	-21.25	11.9
	HT/VHT40 Beam Forming, M8 to M15	4	9	-49.6	-50.3	-50.2	-61.1	-36.1	-21.25	14.9
	HT/VHT40 Beam Forming, M16 to M23	4	7	-49.6	-50.3	-50.2	-61.1	-37.9	-21.25	16.7
	HT/VHT40 STBC, M0 to M7	2	6	-49.6	-50.3			-40.9	-21.25	19.7
	THY VITIAO STOC, INIO TO INIA		U	45.0	-30.3			40.3	-21.23	13.7

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HT/VHT40 STBC, M0 to M7													
Non HT80, 6 to 54 Mbps		HT/VHT40 STBC, M0 to M7	3	6	-49.6	-50.3	-50.2		-39.3	-21.25	18.0		
Non HT80, 6 to 54 Mbps		HT/VHT40 STBC, M0 to M7	4	6	-49.6	-50.3	-50.2	-61.1	-39.1	-21.25	17.9		
Non HT80, 6 to 54 Mbps		<u>-</u>			<u>-</u>								
Non HT80, 6 to 54 Mbps  Non HT80, 6 to 54 Mbps  4 6 6-61.3 45.6 45.3 43.2 43.8 21.25 12.5 12.5 12.5 14.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1		Non HT80, 6 to 54 Mbps	1	6	-61.3				-55.3	-21.25	34.1		
Non HT80, 6 to 54 Mbps		Non HT80, 6 to 54 Mbps	2	6	-61.3	-45.6			-39.5	-21.25	18.2		
VHT80, M0.1 to M9.1		Non HT80, 6 to 54 Mbps	3	6	-61.3	-45.6	-45.3		-36.4	-21.25	15.1		
VHT80, M0.1 to M9.1  VHT80, M0.2 to M9.2  VHT80, M0.3 to M9.3  VHT80, M0.3 to M9.3  VHT80, M0.3 to M9.3  VHT80, M0.3 to M9.3  VHT80, M0.1 to M9.1  VHT80, M0.3 to M9.3  VHT80 Beam Forming, M0.1 to M9.1  VHT80 Beam Forming, M0.2 to M9.2  VHT80 Beam Forming, M0.2 to M9.2  VHT80 Beam Forming, M0.3 to M9.3  VHT80 Beam Forming, M0.1 to M9.1  VHT80 Beam Forming, M0.3 to M9.3  VHT80 STBC, M0.1 to M9.1  VHT80 Beam Forming, 6 to 54 Mbps  VN0 HT20, 6 to 54 Mbps  VN0 HT20, 6 to 54 Mbps  VN0 HT20 Beam Forming, 6 to 54 Mbps		Non HT80, 6 to 54 Mbps	4	6	-61.3	-45.6	-45.3	-43.2	-33.8	-21.25	12.5		
VHT80, M0.2 to M9.2  VHT80, M0.1 to M9.1  3 6 -61.8 -50.9 -50.7 -41.6 -21.25 20.4  VHT80, M0.3 to M9.3  3 6 -61.8 -50.9 -50.7 -41.6 -21.25 20.4  VHT80, M0.3 to M9.3  3 6 -61.8 -50.9 -50.7 -41.6 -21.25 20.4  VHT80, M0.3 to M9.3  3 6 -61.8 -50.9 -50.7 -41.6 -21.25 20.4  VHT80, M0.3 to M9.3  3 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 17.9  VHT80, M0.2 to M9.2  4 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 17.9  VHT80, M0.3 to M9.3  4 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 17.9  VHT80 Beam Forming, M0.1 to M9.1  2 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 17.9  VHT80 Beam Forming, M0.1 to M9.1  2 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 17.9  VHT80 Beam Forming, M0.1 to M9.1  3 6 -61.8 -50.9 -50.7 -44.6 -21.25 23.3  VHT80 Beam Forming, M0.1 to M9.1  3 6 -61.8 -50.9 -50.7 -41.6 -21.25 20.4  VHT80 Beam Forming, M0.2 to M9.2  3 6 -61.8 -50.9 -50.7 -41.6 -21.25 20.4  VHT80 Beam Forming, M0.2 to M9.2  3 6 -61.8 -50.9 -50.7 -41.6 -21.25 20.4  VHT80 Beam Forming, M0.2 to M9.2  3 6 -61.8 -50.9 -50.7 -41.6 -21.25 20.4  VHT80 Beam Forming, M0.2 to M9.3  3 6 -61.8 -50.9 -50.7 -41.6 -21.25 20.4  VHT80 Beam Forming, M0.3 to M9.3  3 6 -61.8 -50.9 -50.7 -41.6 -21.25 20.4  VHT80 Beam Forming, M0.3 to M9.3  4 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 17.9  VHT80 Beam Forming, M0.3 to M9.3  4 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 17.9  VHT80 STBC, M0.1 to M9.1  3 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 17.9  VHT80 STBC, M0.1 to M9.1  4 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 17.9  VHT80 STBC, M0.1 to M9.1  3 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 17.9  VHT80 STBC, M0.1 to M9.1  4 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 17.9  VHT80 STBC, M0.1 to M9.1  3 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 17.9  VHT80 STBC, M0.1 to M9.1  4 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 17.9  VHT80 STBC, M0.1 to M9.1  4 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 17.9  VHT80 STBC, M0.1 to M9.1  4 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 17.9  VHT80 STBC, M0.1 to M9.1  4 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 17.9  VHT80 STBC, M0.1 to M9.1  4 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25		VHT80, M0.1 to M9.1	1	6	-61.8				-55.8	-21.25	34.6		
VHT80, M0.1 to M9.1  VHT80, M0.2 to M9.2  VHT80, M0.3 to M9.3  3 6 6 61.8 50.9 50.7  VHT80, M0.3 to M9.3  VHT80, M0.1 to M9.1  VHT80, M0.2 to M9.2  VHT80, M0.2 to M9.2  VHT80, M0.3 to M9.3  3 6 6 61.8 50.9 50.7  VHT80, M0.3 to M9.3  VHT80, M0.3 to M9.3  VHT80, M0.3 to M9.2  VHT80, M0.3 to M9.3  VHT80, M0.3 to M9.3  VHT80, M0.3 to M9.3  VHT80, M0.3 to M9.3  VHT80 Beam Forming, M0.1 to M9.1  VHT80 Beam Forming, M0.1 to M9.1  VHT80 Beam Forming, M0.2 to M9.2  VHT80 Beam Forming, M0.1 to M9.1  VHT80 Beam Forming, M0.1 to M9.1  VHT80 Beam Forming, M0.1 to M9.1  VHT80 Beam Forming, M0.3 to M9.3  VHT80 Beam Forming, M0.1 to M9.1  VHT80 Beam Forming, M0.1 to M9.1  VHT80 Beam Forming, M0.3 to M9.3  VHT80 Beam Forming, M0.3 to M9.3  VHT80 Beam Forming, M0.3 to M9.3  VHT80 Beam Forming, M0.1 to M9.1  VHT80 STBC,		VHT80, M0.1 to M9.1	2	6	-61.8	-50.9			-44.6	-21.25	23.3		
VHT80, M0.2 to M9.2   3   6   -61.8   -50.9   -50.7   -41.6   -21.25   20.4     VHT80, M0.3 to M9.3   3   6   -61.8   -50.9   -50.7   -41.6   -21.25   20.4     VHT80, M0.1 to M9.1   4   6   -61.8   -50.9   -50.7   -48.8   -39.2   -21.25   17.9     VHT80, M0.2 to M9.2   4   6   -61.8   -50.9   -50.7   -48.8   -39.2   -21.25   17.9     VHT80, M0.3 to M9.3   4   6   -61.8   -50.9   -50.7   -48.8   -39.2   -21.25   17.9     VHT80, M0.3 to M9.3   4   6   -61.8   -50.9   -50.7   -48.8   -39.2   -21.25   17.9     VHT80 Beam Forming, M0.1 to M9.1   2   6   -61.8   -50.9   -50.7   -44.6   -21.25   23.3     VHT80 Beam Forming, M0.2 to M9.2   2   6   -61.8   -50.9   -50.7   -44.6   -21.25   23.3     VHT80 Beam Forming, M0.1 to M9.1   3   6   -61.8   -50.9   -50.7   -41.6   -21.25   20.4     VHT80 Beam Forming, M0.3 to M9.3   3   6   -61.8   -50.9   -50.7   -41.6   -21.25   20.4     VHT80 Beam Forming, M0.3 to M9.3   3   6   -61.8   -50.9   -50.7   -48.8   -39.2   -21.25   17.9     VHT80 Beam Forming, M0.2 to M9.2   4   6   -61.8   -50.9   -50.7   -48.8   -39.2   -21.25   17.9     VHT80 Beam Forming, M0.2 to M9.2   4   6   -61.8   -50.9   -50.7   -48.8   -39.2   -21.25   17.9     VHT80 Beam Forming, M0.3 to M9.3   4   6   -61.8   -50.9   -50.7   -48.8   -39.2   -21.25   17.9     VHT80 STBC, M0.1 to M9.1   2   6   -61.8   -50.9   -50.7   -48.8   -39.2   -21.25   17.9     VHT80 STBC, M0.1 to M9.1   2   6   -61.8   -50.9   -50.7   -48.8   -39.2   -21.25   17.9      VHT80 STBC, M0.1 to M9.1   3   6   -61.8   -50.9   -50.7   -48.8   -39.2   -21.25   17.9      VHT80 STBC, M0.1 to M9.1   3   6   -61.8   -50.9   -50.7   -48.8   -39.2   -21.25   17.9      VHT80 STBC, M0.1 to M9.1   3   6   -61.8   -50.9   -50.7   -48.8   -39.2   -21.25   17.9      VHT80 STBC, M0.1 to M9.1   3   6   -61.8   -50.9   -50.7   -48.8   -39.2   -21.25   17.9      VHT80 STBC, M0.1 to M9.1   3   6   -61.8   -50.9   -50.7   -48.8   -39.2   -21.25   17.9      VHT80 STBC, M0.1 to M9.1   3   6   -61.8   -50.9   -50.7   -48.8   -39.2   -21.25   17.9      VHT80		VHT80, M0.2 to M9.2	2	6	-61.8	-50.9			-44.6	-21.25	23.3		
VHT80, M0.3 to M9.3  VHT80, M0.1 to M9.1  VHT80, M0.1 to M9.1  VHT80, M0.2 to M9.2  VHT80, M0.3 to M9.3  VHT80 Beam Forming, M0.1 to M9.1  VHT80 Beam Forming, M0.2 to M9.2  VHT80 Beam Forming, M0.1 to M9.1  VHT80 Beam Forming, M0.1 to M9.1  VHT80 Beam Forming, M0.2 to M9.2  VHT80 Beam Forming, M0.2 to M9.2  VHT80 Beam Forming, M0.2 to M9.2  VHT80 Beam Forming, M0.3 to M9.3  VHT80 Beam Forming, M0.2 to M9.2  VHT80 Beam Forming, M0.3 to M9.3  VHT80 Beam Forming, M0.3 to M9.3  VHT80 Beam Forming, M0.3 to M9.3  VHT80 Beam Forming, M0.2 to M9.2  VHT80 Beam Forming, M0.1 to M9.1  VHT80 Beam Forming, M0.2 to M9.2  VHT80 Beam Forming, M0.1 to M9.1  VHT80 Beam Forming, M0.2 to M9.2  VHT80 Beam Forming, M0.1 to M9.1  VHT80 Beam Forming, M0.2 to M9.2  VHT80 Beam Forming, M0.2 to M9.2  VHT80 SEM, VHT80 SEM, VHT80, VH		VHT80, M0.1 to M9.1	3	6	-61.8	-50.9	-50.7		-41.6	-21.25	20.4		
VHT80, M0.1 to M9.1  VHT80, M0.2 to M9.2  VHT80, M0.3 to M9.3  VHT80, M0.3 to M9.3  VHT80 Beam Forming, M0.2 to M9.2  VHT80 Beam Forming, M0.3 to M9.3  VHT80 Beam Forming, M0.3 to M9.3  VHT80 Beam Forming, M0.1 to M9.1  VHT80 Beam Forming, M0.3 to M9.3  VHT80 Beam Forming, M0.3 to M9.3  VHT80 Beam Forming, M0.3 to M9.2  VHT80 Beam Forming, M0.3 to M9.2  VHT80 Beam Forming, M0.3 to M9.2  VHT80 Beam Forming, M0.3 to M9.3  VHT80 Beam Forming, M0.1 to M9.1  VHT80 Beam Forming, M0.3 to M9.3  VHT80 Beam Forming, M0.1 to M9.1  VHT80 Beam Forming, M0.1 to M9.1  VHT80 Beam Forming, M0.1 to M9.1  VHT80 STBC, M0.1 to M0.1		VHT80, M0.2 to M9.2	3	6	-61.8	-50.9	-50.7		-41.6	-21.25	20.4		
NHT80, M0.2 to M9.2		VHT80, M0.3 to M9.3	3	6	-61.8	-50.9	-50.7		-41.6	-21.25	20.4		
VHT80, M0.3 to M9.3		VHT80, M0.1 to M9.1	4	6	-61.8	-50.9	-50.7	-48.8	-39.2	-21.25	17.9		
VHT80 Beam Forming, M0.1 to M9.1  VHT80 Beam Forming, M0.2 to M9.2  VHT80 Beam Forming, M0.2 to M9.2  VHT80 Beam Forming, M0.1 to M9.1  VHT80 Beam Forming, M0.2 to M9.2  VHT80 Beam Forming, M0.2 to M9.2  VHT80 Beam Forming, M0.2 to M9.2  VHT80 Beam Forming, M0.3 to M9.3  3 6 -61.8 -50.9 -50.7 -41.6 -21.25 20.4  VHT80 Beam Forming, M0.3 to M9.3  3 6 -61.8 -50.9 -50.7 -41.6 -21.25 20.4  VHT80 Beam Forming, M0.3 to M9.3  3 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 17.9  VHT80 Beam Forming, M0.1 to M9.1  4 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 17.9  VHT80 Beam Forming, M0.3 to M9.3  4 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 17.9  VHT80 Beam Forming, M0.3 to M9.3  4 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 17.9  VHT80 STBC, M0.1 to M9.1  2 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 17.9  VHT80 STBC, M0.1 to M9.1  4 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 17.9  VHT80 STBC, M0.1 to M9.1  4 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 17.9  VHT80 STBC, M0.1 to M9.1  3 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 17.9  VHT80 STBC, M0.1 to M9.1  4 6 -59.4 -50.9 -50.7 -48.8 -39.2 -21.25 17.9  Non HT20, 6 to 54 Mbps  1 6 -59.4 -49.6 -51.2 -41.6 -21.25 20.4  Non HT20, 6 to 54 Mbps  3 6 -59.4 -49.6 -51.2 -61.9 -40.9 -21.25 19.7  Non HT20, 6 to 54 Mbps  4 6 -59.4 -49.6 -51.2 -61.9 -40.9 -21.25 19.7  Non HT20 Beam Forming, 6 to 54 Mbps  3 11 -59.4 -49.6 -51.2 -61.9 -40.9 -21.25 19.7  Non HT20 Beam Forming, 6 to 54 Mbps  4 6 -59.4 -49.6 -51.2 -61.9 -34.9 -21.25 13.7  HT/VHT20, M0 to M7  1 6 -59.4 -49.6 -51.2 -61.9 -34.9 -21.25 13.7  HT/VHT20, M0 to M7  1 6 -59.4 -50.3 -43.8 -21.25 22.5  HT/VHT20, M0 to M7  1 6 -59.4 -50.3 -50.3 -51.2 -41.4 -21.25 20.2  HT/VHT20, M0 to M7  2 6 -59.4 -50.3 -51.2 -41.4 -21.25 20.2	90	VHT80, M0.2 to M9.2	4	6	-61.8	-50.9	-50.7	-48.8	-39.2	-21.25	17.9		
VHT80 Beam Forming, M0.2 to M9.2  VHT80 Beam Forming, M0.1 to M9.1  VHT80 Beam Forming, M0.1 to M9.1  VHT80 Beam Forming, M0.2 to M9.2  VHT80 Beam Forming, M0.3 to M9.3  3 6 -61.8 -50.9 -50.7  -41.6 -21.25 20.4  VHT80 Beam Forming, M0.3 to M9.3  3 6 -61.8 -50.9 -50.7  -41.6 -21.25 20.4  VHT80 Beam Forming, M0.3 to M9.3  3 6 -61.8 -50.9 -50.7  -41.6 -21.25 20.4  VHT80 Beam Forming, M0.3 to M9.3  3 6 -61.8 -50.9 -50.7  -41.6 -21.25 20.4  VHT80 Beam Forming, M0.1 to M9.1  4 6 -61.8 -50.9 -50.7  -41.6 -21.25 20.4  VHT80 Beam Forming, M0.2 to M9.2  4 6 -61.8 -50.9 -50.7  -41.6 -21.25 17.9  VHT80 Beam Forming, M0.3 to M9.3  4 6 -61.8 -50.9 -50.7  -48.8 -39.2 -21.25 17.9  VHT80 STBC, M0.1 to M9.1  2 6 -61.8 -50.9 -50.7  -44.6 -21.25 23.3  VHT80 STBC, M0.1 to M9.1  3 6 -61.8 -50.9 -50.7  -44.6 -21.25 20.4  VHT80 STBC, M0.1 to M9.1  4 6 -61.8 -50.9 -50.7  -44.6 -21.25 20.4  VHT80 STBC, M0.1 to M9.1  3 6 -61.8 -50.9 -50.7  -48.8 -39.2 -21.25 17.9  VHT80 STBC, M0.1 to M9.1  4 6 -61.8 -50.9 -50.7  -48.8 -39.2 -21.25 17.9  VHT80 STBC, M0.1 to M9.1  3 6 -61.8 -50.9 -50.7  -48.8 -39.2 -21.25 17.9  VHT80 STBC, M0.1 to M9.1  4 6 -51.8 -50.9 -50.7  -41.6 -21.25 20.4  VHT80 STBC, M0.1 to M9.1  5 6 -59.4 -49.6 -51.2 -41.6 -21.25 20.4  VHT80 STBC, M0.1 to M9.1  4 6 -59.4 -49.6 -51.2 -41.1 -21.25 19.8  Non HT20, 6 to 54 Mbps  3 6 -59.4 -49.6 -51.2 -61.9 -40.9 -21.25 19.7  Non HT20 Beam Forming, 6 to 54 Mbps  3 11 -59.4 -49.6 -51.2 -61.9 -40.9 -21.25 19.7  Non HT20 Beam Forming, 6 to 54 Mbps  4 12 -59.4 -49.6 -51.2 -61.9 -34.9 -21.25 13.7  HT/VHT20, M0 to M7  1 6 -59.4 -50.3 -49.6 -51.2 -61.9 -34.9 -21.25 13.7  HT/VHT20, M0 to M7  1 6 -59.4 -50.3 -51.2 -41.4 -21.25 20.2  HT/VHT20, M8 to M15  3 6 -59.4 -50.3 -51.2 -41.4 -21.25 20.2	52	VHT80, M0.3 to M9.3	4	6	-61.8	-50.9	-50.7	-48.8	-39.2	-21.25	17.9		
VHT80 Beam Forming, M0.1 to M9.1  VHT80 Beam Forming, M0.2 to M9.2  VHT80 Beam Forming, M0.3 to M9.3  3 6 -61.8 -50.9 -50.7 -41.6 -21.25 20.4  VHT80 Beam Forming, M0.3 to M9.3  3 6 -61.8 -50.9 -50.7 -41.6 -21.25 20.4  VHT80 Beam Forming, M0.1 to M9.1  VHT80 Beam Forming, M0.1 to M9.1  VHT80 Beam Forming, M0.1 to M9.1  VHT80 Beam Forming, M0.2 to M9.2  4 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 17.9  VHT80 Beam Forming, M0.3 to M9.3  4 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 17.9  VHT80 STBC, M0.1 to M9.1  VHT80 STBC, M0.1 to M9.1  3 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 17.9  VHT80 STBC, M0.1 to M9.1  4 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 17.9  VHT80 STBC, M0.1 to M9.1  4 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 17.9  VHT80 STBC, M0.1 to M9.1  4 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 17.9  VHT80 STBC, M0.1 to M9.1  4 6 -59.4 -49.6 -50.7 -48.8 -39.2 -21.25 17.9  Non HT20, 6 to 54 Mbps  1 6 -59.4 -49.6 -51.2 -41.1 -21.25 20.4  Non HT20, 6 to 54 Mbps  3 6 -59.4 -49.6 -51.2 -41.1 -21.25 19.8  Non HT20, Beam Forming, 6 to 54 Mbps  4 6 -59.4 -49.6 -51.2 -61.9 -40.9 -21.25 18.9  Non HT20 Beam Forming, 6 to 54 Mbps  3 11 -59.4 -49.6 -51.2 -61.9 -34.9 -21.25 13.7  HT/VHT20, M0 to M7  1 6 -59.4 -49.6 -51.2 -61.9 -34.9 -21.25 13.7  HT/VHT20, M0 to M7  1 6 -59.4 -59.4 -50.3 -51.2 -41.4 -21.25 20.2  HT/VHT20, M0 to M7  3 6 -59.4 -50.3 -51.2 -41.4 -21.25 20.2		VHT80 Beam Forming, M0.1 to M9.1	2	6	-61.8	-50.9			-44.6	-21.25	23.3		
VHT80 Beam Forming, M0.2 to M9.2 VHT80 Beam Forming, M0.3 to M9.3 3 6 -61.8 -50.9 -50.7 -41.6 -21.25 20.4 VHT80 Beam Forming, M0.1 to M9.1 VHT80 Beam Forming, M0.1 to M9.1 VHT80 Beam Forming, M0.2 to M9.2 VHT80 Beam Forming, M0.2 to M9.2 VHT80 Beam Forming, M0.3 to M9.3 4 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 17.9 VHT80 Beam Forming, M0.3 to M9.3 4 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 17.9 VHT80 STBC, M0.1 to M9.1 2 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 17.9 VHT80 STBC, M0.1 to M9.1 3 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 17.9 VHT80 STBC, M0.1 to M9.1 3 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 17.9 VHT80 STBC, M0.1 to M9.1 4 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 17.9 VHT80 STBC, M0.1 to M9.1 3 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 17.9 VHT80 STBC, M0.1 to M9.1 4 6 -51.8 -50.9 -50.7 -48.8 -39.2 -21.25 17.9 VHT80 STBC, M0.1 to M9.1 4 6 -59.4 -49.6 -50.7 -48.8 -39.2 -21.25 17.9 Non HT20, 6 to 54 Mbps 3 6 -59.4 -49.6 -51.2 -41.1 -21.25 19.8 Non HT20, 6 to 54 Mbps 4 6 -59.4 -49.6 -51.2 -61.9 -40.9 -21.25 19.7 Non HT20 Beam Forming, 6 to 54 Mbps 3 11 -59.4 -49.6 -51.2 -61.9 -40.9 -21.25 18.9 Non HT20 Beam Forming, 6 to 54 Mbps 4 12 -59.4 -49.6 -51.2 -61.9 -34.9 -21.25 15.0 Non HT20 Beam Forming, 6 to 54 Mbps 4 12 -59.4 -49.6 -51.2 -61.9 -34.9 -21.25 13.0 HT/VHT20, M0 to M7 1 6 -59.4 -50.3 -43.8 -21.25 22.5 HT/VHT20, M0 to M7 2 6 -59.4 -50.3 -51.2 -41.4 -21.25 20.2 HT/VHT20, M0 to M7 3 6 -59.4 -50.3 -51.2 -41.4 -21.25 20.2		VHT80 Beam Forming, M0.2 to M9.2	2	6	-61.8	-50.9			-44.6	-21.25	23.3		
VHT80 Beam Forming, M0.3 to M9.3  VHT80 Beam Forming, M0.1 to M9.1  VHT80 Beam Forming, M0.1 to M9.1  VHT80 Beam Forming, M0.2 to M9.2  VHT80 Beam Forming, M0.2 to M9.2  VHT80 Beam Forming, M0.3 to M9.3  4 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 17.9  VHT80 Beam Forming, M0.3 to M9.3  4 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 17.9  VHT80 STBC, M0.1 to M9.1  VHT80 STBC, M0.1 to M9.1  3 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 17.9  VHT80 STBC, M0.1 to M9.1  4 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 20.4  VHT80 STBC, M0.1 to M9.1  4 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 20.4  VHT80 STBC, M0.1 to M9.1  4 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 20.4  VHT80 STBC, M0.1 to M9.1  4 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 20.4  VHT80 STBC, M0.1 to M9.1  4 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 20.4  VHT80 STBC, M0.1 to M9.1  4 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 20.4  VHT80 STBC, M0.1 to M9.1  4 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 20.4  VHT80 STBC, M0.1 to M9.1  4 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 20.4  VHT80 STBC, M0.1 to M9.1  4 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 20.4  VHT80 STBC, M0.1 to M9.1  4 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 20.4  VHT80 STBC, M0.1 to M9.1  4 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 20.4  VHT80 STBC, M0.1 to M9.1  4 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 20.4  VHT80 STBC, M0.1 to M9.1  4 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 20.4  VHT80 STBC, M0.1 to M9.1  4 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 20.4  VHT80 STBC, M0.1 to M9.1  4 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 20.4  VHT80 STBC, M0.1 to M9.1  4 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 20.4  VHT80 STBC, M0.1 to M9.1  4 6 -61.8 -50.9 -50.7 -48.8 -39.2 -21.25 20.4  VHT80 STBC, M0.1 to M9.1  4 6 -61.8 -50.9 -50.7 -50.7 -48.8 -39.2 -21.25 20.4  VHT80 STBC, M0.1 to M9.1  4 6 -59.4 -49.6 -51.2 -61.9 -40.9 -21.25 19.7  VHT80 STBC, M0.1 to M9.1  4 6 -59.4 -49.6 -51.2 -61.9 -40.9 -21.25 18.9  VHT80 STBC, M0.1 to M9.1  4 6 -59.4 -49.6 -51.2 -61.9 -40.9 -21.25 18.9  VHT80 STBC, M0.1 to M9.1  4 6 -59.4 -49.6 -51.2 -61.9 -40.9 -21.25 18.9  VHT		VHT80 Beam Forming, M0.1 to M9.1	3	6	-61.8	-50.9	-50.7		-41.6	-21.25	20.4		
VHT80 Beam Forming, M0.1 to M9.1         4         6         -61.8         -50.9         -50.7         -48.8         -39.2         -21.25         17.9           VHT80 Beam Forming, M0.2 to M9.2         4         6         -61.8         -50.9         -50.7         -48.8         -39.2         -21.25         17.9           VHT80 Beam Forming, M0.3 to M9.3         4         6         -61.8         -50.9         -50.7         -48.8         -39.2         -21.25         17.9           VHT80 STBC, M0.1 to M9.1         2         6         -61.8         -50.9         -50.7         -44.6         -21.25         23.3           VHT80 STBC, M0.1 to M9.1         3         6         -61.8         -50.9         -50.7         -41.6         -21.25         20.4           VHT80 STBC, M0.1 to M9.1         4         6         -61.8         -50.9         -50.7         -41.6         -21.25         20.4           VHT80 STBC, M0.1 to M9.1         4         6         -61.8         -50.9         -50.7         -48.8         -39.2         -21.25         20.4           VHT80 STBC, M0.1 to M9.1         1         6         -59.4         -49.6         -50.7         -48.8         -39.2         -21.25         17.9		VHT80 Beam Forming, M0.2 to M9.2	3	6	-61.8	-50.9	-50.7		-41.6	-21.25	20.4		
VHT80 Beam Forming, M0.2 to M9.2         4         6         -61.8         -50.9         -50.7         -48.8         -39.2         -21.25         17.9           VHT80 Beam Forming, M0.3 to M9.3         4         6         -61.8         -50.9         -50.7         -48.8         -39.2         -21.25         17.9           VHT80 STBC, M0.1 to M9.1         2         6         -61.8         -50.9         -50.7         -41.6         -21.25         23.3           VHT80 STBC, M0.1 to M9.1         3         6         -61.8         -50.9         -50.7         -41.6         -21.25         20.4           VHT80 STBC, M0.1 to M9.1         4         6         -61.8         -50.9         -50.7         -41.6         -21.25         20.4           VHT80 STBC, M0.1 to M9.1         4         6         -61.8         -50.9         -50.7         -48.8         -39.2         -21.25         20.4           VHT80 STBC, M0.1 to M9.1         4         6         -61.8         -50.9         -50.7         -48.8         -39.2         -21.25         20.4           VHT80 STBC, M0.1 to M9.1         1         6         -59.4         -49.6         -51.2         -41.1         -21.25         21.25         11.9		VHT80 Beam Forming, M0.3 to M9.3	3	6	-61.8	-50.9	-50.7		-41.6	-21.25	20.4		
VHT80 Beam Forming, M0.3 to M9.3         4         6         -61.8         -50.9         -50.7         -48.8         -39.2         -21.25         17.9           VHT80 STBC, M0.1 to M9.1         2         6         -61.8         -50.9         -50.7         -44.6         -21.25         23.3           VHT80 STBC, M0.1 to M9.1         3         6         -61.8         -50.9         -50.7         -41.6         -21.25         20.4           VHT80 STBC, M0.1 to M9.1         4         6         -61.8         -50.9         -50.7         -48.8         -39.2         -21.25         20.4           VHT80 STBC, M0.1 to M9.1         4         6         -61.8         -50.9         -50.7         -48.8         -39.2         -21.25         20.4           VHT80 STBC, M0.1 to M9.1         4         6         -61.8         -50.9         -50.7         -48.8         -39.2         -21.25         20.4           VHT80 STBC, M0.1 to M9.1         4         6         -61.8         -50.9         -50.7         -48.8         -39.2         -21.25         17.9           Non H720, 6 to 54 Mbps         1         6         -59.4         -49.6         -51.2         -61.9         -40.9         -21.25         19.7		VHT80 Beam Forming, M0.1 to M9.1	4	6	-61.8	-50.9	-50.7	-48.8	-39.2	-21.25	17.9		
VHT80 STBC, M0.1 to M9.1  VHT80 STBC, M0.1 t		VHT80 Beam Forming, M0.2 to M9.2	4	6	-61.8	-50.9	-50.7	-48.8	-39.2	-21.25	17.9		
VHT80 STBC, M0.1 to M9.1  VHT80 STBC, M0.1 t		VHT80 Beam Forming, M0.3 to M9.3	4	6	-61.8	-50.9	-50.7	-48.8	-39.2	-21.25	17.9		
VHT80 STBC, M0.1 to M9.1         4         6         -61.8         -50.9         -50.7         -48.8         -39.2         -21.25         17.9           Non HT20, 6 to 54 Mbps         1         6         -59.4         —         —         -53.4         -21.25         32.2           Non HT20, 6 to 54 Mbps         2         6         -59.4         -49.6         —         -43.2         -21.25         19.8           Non HT20, 6 to 54 Mbps         3         6         -59.4         -49.6         —         -41.1         -21.25         19.8           Non HT20, 6 to 54 Mbps         4         6         -59.4         -49.6         —         -51.2         —         -41.1         -21.25         19.8           Non HT20 Beam Forming, 6 to 54 Mbps         4         6         -59.4         -49.6         —         -51.2         —         -61.9         -40.9         -21.25         19.7           Non HT20 Beam Forming, 6 to 54 Mbps         3         11         -59.4         -49.6         —         -51.2         —         -36.3         -21.25         15.0           Non HT20 Beam Forming, 6 to 54 Mbps         4         12         -59.4         -49.6         -51.2         —         -61.9         -3		VHT80 STBC, M0.1 to M9.1	2	6	-61.8	-50.9			-44.6	-21.25	23.3		
Non HT20, 6 to 54 Mbps   1   6   -59.4   -49.6   -43.2   -21.25   32.2		VHT80 STBC, M0.1 to M9.1	3	6	-61.8	-50.9	-50.7		-41.6	-21.25	20.4		
Non HT20, 6 to 54 Mbps  Non HT20 Beam Forming, 6 to 54 Mbps  1 1 6 -59.4 -49.6 -51.2 -61.9 -34.9 -21.25 13.7 -34.9 -21.25 13.7 -34.9 -21.25 13.7 -34.9 -21.25 13.7 -34.9 -21.25 13.7 -34.9 -21.25 13.7 -34.9		VHT80 STBC, M0.1 to M9.1	4	6	-61.8	-50.9	-50.7	-48.8	-39.2	-21.25	17.9		
Non HT20, 6 to 54 Mbps  Non HT20 Beam Forming, 6 to 54 Mbps  1 1 6 -59.4 -49.6 -51.2 -61.9 -34.9 -21.25 13.7 -34.9 -21.25 13.7 -34.9 -21.25 13.7 -34.9 -21.25 13.7 -34.9 -21.25 13.7 -34.9 -21.25 13.7 -34.9													
Non HT20, 6 to 54 Mbps  Non HT20, 6 to 54 Mbps  4 6 -59.4 -49.6 -51.2 -61.9 -40.9 -21.25 19.7  Non HT20 Beam Forming, 6 to 54 Mbps  4 12 -59.4 -49.6 -51.2 -61.9 -34.9 -21.25 13.7  HT/VHT20, M0 to M7  1 6 -59.4 -50.3 -51.2 -61.9 -34.9 -21.25 32.2  HT/VHT20, M0 to M7  2 6 -59.4 -50.3 -43.8 -21.25 22.5  HT/VHT20, M0 to M7  3 6 -59.4 -50.3 -51.2 -41.4 -21.25 20.2  HT/VHT20, M8 to M15  3 6 -59.4 -50.3 -51.2 -41.4 -21.25 20.2		Non HT20, 6 to 54 Mbps	1	6	-59.4				-53.4	-21.25	32.2		
Non HT20, 6 to 54 Mbps  Non HT20 Beam Forming, 6 to 54 Mbps  4 12 -59.4 -49.6 -51.2 -61.9 -34.9 -21.25 13.7  HT/VHT20, M0 to M7  1 6 -59.4 -50.3 -51.2 -61.9 -34.9 -21.25 32.2  HT/VHT20, M0 to M7  2 6 -59.4 -50.3 -50.3 -43.8 -21.25 22.5  HT/VHT20, M0 to M7  3 6 -59.4 -50.3 -51.2 -41.4 -21.25 20.2  HT/VHT20, M8 to M15  3 6 -59.4 -50.3 -51.2 -41.4 -21.25 20.2		Non HT20, 6 to 54 Mbps	2	6	-59.4	-49.6			-43.2	-21.25	21.9		
Non HT20 Beam Forming, 6 to 54 Mbps 2 9 -59.4 -49.6 -51.2 -36.3 -21.25 15.0  Non HT20 Beam Forming, 6 to 54 Mbps 3 11 -59.4 -49.6 -51.2 -61.9 -34.9 -21.25 15.0  Non HT20 Beam Forming, 6 to 54 Mbps 4 12 -59.4 -49.6 -51.2 -61.9 -34.9 -21.25 13.7  HT/VHT20, M0 to M7 1 6 -59.4 -50.3 -51.2 -61.9 -34.8 -21.25 22.5  HT/VHT20, M8 to M15 2 6 -59.4 -50.3 -51.2 -41.4 -21.25 20.2  HT/VHT20, M8 to M15 3 6 -59.4 -50.3 -51.2 -41.4 -21.25 20.2		Non HT20, 6 to 54 Mbps	3	6	-59.4	-49.6	-51.2		-41.1	-21.25	19.8		
Non HT20 Beam Forming, 6 to 54 Mbps  3 11 -59.4 -49.6 -51.2 -36.3 -21.25 15.0  Non HT20 Beam Forming, 6 to 54 Mbps  4 12 -59.4 -49.6 -51.2 -61.9 -34.9 -21.25 13.7  HT/VHT20, M0 to M7  1 6 -59.4 -50.3 -51.2 -61.9 -34.9 -21.25 32.2  HT/VHT20, M0 to M7  2 6 -59.4 -50.3 -50.3 -43.8 -21.25 22.5  HT/VHT20, M0 to M7  3 6 -59.4 -50.3 -51.2 -41.4 -21.25 20.2  HT/VHT20, M8 to M15  3 6 -59.4 -50.3 -51.2 -41.4 -21.25 20.2		Non HT20, 6 to 54 Mbps	4	6	-59.4	-49.6	-51.2	-61.9	-40.9	-21.25	19.7		
Non HT20 Beam Forming, 6 to 54 Mbps  4 12 -59.4 -49.6 -51.2 -61.9 -34.9 -21.25 13.7  HT/VHT20, M0 to M7  1 6 -59.4 -50.3 -53.4 -21.25 32.2  HT/VHT20, M8 to M15  2 6 -59.4 -50.3 -53.3 -43.8 -21.25 22.5  HT/VHT20, M0 to M7  3 6 -59.4 -50.3 -51.2 -41.4 -21.25 20.2  HT/VHT20, M8 to M15  3 6 -59.4 -50.3 -51.2 -41.4 -21.25 20.2		Non HT20 Beam Forming, 6 to 54 Mbps	2	9	-59.4	-49.6			-40.2	-21.25	18.9		
HT/VHT20, M0 to M7       1       6       -59.4       -53.4       -21.25       32.2         HT/VHT20, M0 to M7       2       6       -59.4       -50.3       -43.8       -21.25       22.5         HT/VHT20, M8 to M15       2       6       -59.4       -50.3       -43.8       -21.25       22.5         HT/VHT20, M0 to M7       3       6       -59.4       -50.3       -51.2       -41.4       -21.25       20.2         HT/VHT20, M8 to M15       3       6       -59.4       -50.3       -51.2       -41.4       -21.25       20.2		Non HT20 Beam Forming, 6 to 54 Mbps	3	11	-59.4	-49.6	-51.2		-36.3	-21.25	15.0		
HT/VHT20, M0 to M7       1       6       -59.4       -53.4       -21.25       32.2         HT/VHT20, M0 to M7       2       6       -59.4       -50.3       -43.8       -21.25       22.5         HT/VHT20, M8 to M15       2       6       -59.4       -50.3       -43.8       -21.25       22.5         HT/VHT20, M0 to M7       3       6       -59.4       -50.3       -51.2       -41.4       -21.25       20.2         HT/VHT20, M8 to M15       3       6       -59.4       -50.3       -51.2       -41.4       -21.25       20.2	280	Non HT20 Beam Forming, 6 to 54 Mbps	4	12	-59.4	-49.6	-51.2	-61.9	-34.9	-21.25	13.7		
HT/VHT20, M8 to M15       2       6       -59.4       -50.3       -43.8       -21.25       22.5         HT/VHT20, M0 to M7       3       6       -59.4       -50.3       -51.2       -41.4       -21.25       20.2         HT/VHT20, M8 to M15       3       6       -59.4       -50.3       -51.2       -41.4       -21.25       20.2	5	HT/VHT20, M0 to M7	1	6	-59.4				-53.4	-21.25	32.2		
HT/VHT20, M0 to M7       3       6       -59.4       -50.3       -51.2       -41.4       -21.25       20.2         HT/VHT20, M8 to M15       3       6       -59.4       -50.3       -51.2       -41.4       -21.25       20.2		HT/VHT20, M0 to M7	2	6	-59.4	-50.3			-43.8	-21.25	22.5		
HT/VHT20, M8 to M15 3 6 -59.4 -50.3 -51.2 -41.4 -21.25 20.2		HT/VHT20, M8 to M15	2	6	-59.4	-50.3			-43.8	-21.25	22.5		
		HT/VHT20, M0 to M7	3	6	-59.4	-50.3	-51.2		-41.4	-21.25	20.2		
HT/VHT20, M16 to M23 3 6 -59.4 -50.3 -51.2 -41.4 -21.25 20.2		HT/VHT20, M8 to M15	3	6	-59.4	-50.3	-51.2		-41.4	-21.25	20.2		
		HT/VHT20, M16 to M23	3	6	-59.4	-50.3	-51.2		-41.4	-21.25	20.2		

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	HT/VHT20, M0 to M7	4	6	-59.4	-50.3	-51.2	-48.2	-38.8	-21.25	17.5
	HT/VHT20, M8 to M15	4	6	-59.4	-50.3	-51.2	-48.2	-38.8	-21.25	17.5
	HT/VHT20, M16 to M23	4	6	-59.4	-50.3	-51.2	-48.2	-38.8	-21.25	17.5
	HT/VHT20 Beam Forming, M0 to M7	2	9	-59.4	-50.3			-40.8	-21.25	19.5
	HT/VHT20 Beam Forming, M8 to M15	2	6	-59.4	-50.3			-43.8	-21.25	22.5
	HT/VHT20 Beam Forming, M0 to M7	3	11	-59.4	-50.3	-51.2		-36.6	-21.25	15.4
	HT/VHT20 Beam Forming, M8 to M15	3	8	-59.4	-50.3	-51.2		-39.6	-21.25	18.4
	HT/VHT20 Beam Forming, M16 to M23	3	6	-59.4	-50.3	-51.2		-41.4	-21.25	20.2
	HT/VHT20 Beam Forming, M0 to M7	4	12	-59.4	-50.3	-51.2	-48.2	-32.8	-21.25	11.5
	HT/VHT20 Beam Forming, M8 to M15	4	9	-59.4	-50.3	-51.2	-48.2	-35.8	-21.25	14.5
	HT/VHT20 Beam Forming, M16 to M23	4	7	-59.4	-50.3	-51.2	-48.2	-37.6	-21.25	16.3
	HT/VHT20 STBC, M0 to M7	2	6	-59.4	-50.3			-43.8	-21.25	22.5
	HT/VHT20 STBC, M0 to M7	3	6	-59.4	-50.3	-51.2		-41.4	-21.25	20.2
	HT/VHT20 STBC, M0 to M7	4	6	-59.4	-50.3	-51.2	-48.2	-38.8	-21.25	17.5
	Non HT20, 6 to 54 Mbps	1	6	-60.6				-54.6	-21.25	33.4
	Non HT20, 6 to 54 Mbps	2	6	-60.6	-59.8			-51.2	-21.25	29.9
	Non HT20, 6 to 54 Mbps	3	6	-60.6	-59.8	-50.6		-43.7	-21.25	22.5
	Non HT20, 6 to 54 Mbps	4	6	-60.6	-59.8	-50.6	-49.6	-40.7	-21.25	19.4
	Non HT20 Beam Forming, 6 to 54 Mbps	2	9	-60.6	-59.8			-48.2	-21.25	26.9
	Non HT20 Beam Forming, 6 to 54 Mbps	3	11	-60.6	-59.8	-50.6		-38.9	-21.25	17.7
	Non HT20 Beam Forming, 6 to 54 Mbps	4	12	-60.6	-59.8	-50.6	-49.6	-34.7	-21.25	13.4
	HT/VHT20, M0 to M7	1	6	-50.2				-44.2	-21.25	23.0
	HT/VHT20, M0 to M7	2	6	-50.2	-50.1			-41.1	-21.25	19.9
	HT/VHT20, M8 to M15	2	6	-50.2	-50.1			-41.1	-21.25	19.9
	HT/VHT20, M0 to M7	3	6	-50.2	-50.1	-51.2		-39.7	-21.25	18.5
	HT/VHT20, M8 to M15	3	6	-50.2	-50.1	-51.2		-39.7	-21.25	18.5
8	HT/VHT20, M16 to M23	3	6	-50.2	-50.1	-51.2		-39.7	-21.25	18.5
5300	HT/VHT20, M0 to M7	4	6	-50.2	-50.1	-51.2	-49.4	-38.2	-21.25	16.9
	HT/VHT20, M8 to M15	4	6	-50.2	-50.1	-51.2	-49.4	-38.2	-21.25	16.9
	HT/VHT20, M16 to M23	4	6	-50.2	-50.1	-51.2	-49.4	-38.2	-21.25	16.9
	HT/VHT20 Beam Forming, M0 to M7	2	9	-50.2	-50.1			-38.1	-21.25	16.9
	HT/VHT20 Beam Forming, M8 to M15	2	6	-50.2	-50.1			-41.1	-21.25	19.9
	HT/VHT20 Beam Forming, M0 to M7	3	11	-50.2	-50.1	-51.2		-34.9	-21.25	13.7
	HT/VHT20 Beam Forming, M8 to M15	3	8	-50.2	-50.1	-51.2		-37.9	-21.25	16.7
	HT/VHT20 Beam Forming, M16 to M23	3	6	-50.2	-50.1	-51.2		-39.7	-21.25	18.5
	HT/VHT20 Beam Forming, M0 to M7	4	12	-50.2	-50.1	-51.2	-49.4	-32.2	-21.25	10.9
	HT/VHT20 Beam Forming, M8 to M15	4	9	-50.2	-50.1	-51.2	-49.4	-35.2	-21.25	13.9
	HT/VHT20 Beam Forming, M16 to M23	4	7	-50.2	-50.1	-51.2	-49.4	-37.0	-21.25	15.7
	HT/VHT20 STBC, M0 to M7	2	6	-50.2	-50.1			-41.1	-21.25	19.9
	HT/VHT20 STBC, M0 to M7	3	6	-50.2	-50.1	-51.2		-39.7	-21.25	18.5

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	HT/VHT20 STBC, M0 to M7	4	6	-50.2	-50.1	-51.2	-49.4	-38.2	-21.25	16.9
	Non HT40, 6 to 54 Mbps	1	6	-43.0				-37.0	-21.25	15.8
	Non HT40, 6 to 54 Mbps	2	6	-43.0	-46.6			-35.4	-21.25	14.2
	Non HT40, 6 to 54 Mbps	3	6	-43.0	-46.6	-45.0		-33.8	-21.25	12.6
	Non HT40, 6 to 54 Mbps	4	6	-43.0	-46.6	-45.0	-47.4	-33.1	-21.25	11.9
	HT/VHT40, M0 to M7	1	6	-48.9				-42.9	-21.25	21.7
	HT/VHT40, M0 to M7	2	6	-48.9	-60.1			-42.6	-21.25	21.3
	HT/VHT40, M8 to M15	2	6	-48.9	-60.1			-42.6	-21.25	21.3
	HT/VHT40, M0 to M7	3	6	-48.9	-60.1	-49.9		-40.2	-21.25	18.9
	HT/VHT40, M8 to M15	3	6	-48.9	-60.1	-49.9		-40.2	-21.25	18.9
	HT/VHT40, M16 to M23	3	6	-48.9	-60.1	-49.9		-40.2	-21.25	18.9
	HT/VHT40, M0 to M7	4	6	-48.9	-60.1	-49.9	-60.2	-40.0	-21.25	18.8
2	HT/VHT40, M8 to M15	4	6	-48.9	-60.1	-49.9	-60.2	-40.0	-21.25	18.8
5310	HT/VHT40, M16 to M23	4	6	-48.9	-60.1	-49.9	-60.2	-40.0	-21.25	18.8
	HT/VHT40 Beam Forming, M0 to M7	2	9	-48.9	-60.1			-39.6	-21.25	18.3
	HT/VHT40 Beam Forming, M8 to M15	2	6	-48.9	-60.1			-42.6	-21.25	21.3
	HT/VHT40 Beam Forming, M0 to M7	3	11	-48.9	-60.1	-49.9		-35.4	-21.25	14.1
	HT/VHT40 Beam Forming, M8 to M15	3	8	-48.9	-60.1	-49.9		-38.4	-21.25	17.1
	HT/VHT40 Beam Forming, M16 to M23	3	6	-48.9	-60.1	-49.9		-40.2	-21.25	18.9
	HT/VHT40 Beam Forming, M0 to M7	4	12	-48.9	-60.1	-49.9	-60.2	-34.0	-21.25	12.8
	HT/VHT40 Beam Forming, M8 to M15	4	9	-48.9	-60.1	-49.9	-60.2	-37.0	-21.25	15.8
	HT/VHT40 Beam Forming, M16 to M23	4	7	-48.9	-60.1	-49.9	-60.2	-38.8	-21.25	17.6
	HT/VHT40 STBC, M0 to M7	2	6	-48.9	-60.1			-42.6	-21.25	21.3
	HT/VHT40 STBC, M0 to M7	3	6	-48.9	-60.1	-49.9		-40.2	-21.25	18.9
	HT/VHT40 STBC, M0 to M7	4	6	-48.9	-60.1	-49.9	-60.2	-40.0	-21.25	18.8
	Non HT20, 6 to 54 Mbps	1	6	-59.5				-53.5	-21.25	32.3
	Non HT20, 6 to 54 Mbps	2	6	-59.5	-61.2			-51.3	-21.25	30.0
	Non HT20, 6 to 54 Mbps	3	6	-59.5	-61.2	-61.3		-49.8	-21.25	28.6
	Non HT20, 6 to 54 Mbps	4	6	-59.5	-61.2	-61.3	-61.2	-48.7	-21.25	27.5
	Non HT20 Beam Forming, 6 to 54 Mbps	2	9	-59.5	-61.2			-48.3	-21.25	27.0
	Non HT20 Beam Forming, 6 to 54 Mbps	3	11	-59.5	-61.2	-61.3		-45.0	-21.25	23.8
0	Non HT20 Beam Forming, 6 to 54 Mbps	4	12	-59.5	-61.2	-61.3	-61.2	-42.7	-21.25	21.5
5320	HT/VHT20, M0 to M7	1	6	-61.6				-55.6	-21.25	34.4
	HT/VHT20, M0 to M7	2	6	-61.6	-59.7			-51.5	-21.25	30.3
	HT/VHT20, M8 to M15	2	6	-61.6	-59.7			-51.5	-21.25	30.3
	HT/VHT20, M0 to M7	3	6	-61.6	-59.7	-60.7		-49.8	-21.25	28.6
	HT/VHT20, M8 to M15	3	6	-61.6	-59.7	-60.7		-49.8	-21.25	28.6
	HT/VHT20, M16 to M23	3	6	-61.6	-59.7	-60.7		-49.8	-21.25	28.6
	HT/VHT20, M0 to M7	4	6	-61.6	-59.7	-60.7	-57.8	-47.7	-21.25	26.4
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HT/VHT20, M8 to M15	4	6	-61.6	-59.7	-60.7	-57.8	-47.7	-21.25	26.4
HT/VHT20, M16 to M23	4	6	-61.6	-59.7	-60.7	-57.8	-47.7	-21.25	26.4
HT/VHT20 Beam Forming, M0 to M7	2	9	-61.6	-59.7			-48.5	-21.25	27.3
HT/VHT20 Beam Forming, M8 to M15	2	6	-61.6	-59.7			-51.5	-21.25	30.3
HT/VHT20 Beam Forming, M0 to M7	3	11	-61.6	-59.7	-60.7		-45.0	-21.25	23.8
HT/VHT20 Beam Forming, M8 to M15	3	8	-61.6	-59.7	-60.7		-48.0	-21.25	26.8
HT/VHT20 Beam Forming, M16 to M23	3	6	-61.6	-59.7	-60.7		-49.8	-21.25	28.6
HT/VHT20 Beam Forming, M0 to M7	4	12	-61.6	-59.7	-60.7	-57.8	-41.7	-21.25	20.4
HT/VHT20 Beam Forming, M8 to M15	4	9	-61.6	-59.7	-60.7	-57.8	-44.7	-21.25	23.4
HT/VHT20 Beam Forming, M16 to M23	4	7	-61.6	-59.7	-60.7	-57.8	-46.5	-21.25	25.2
HT/VHT20 STBC, M0 to M7	2	6	-61.6	-59.7			-51.5	-21.25	30.3
HT/VHT20 STBC, M0 to M7	3	6	-61.6	-59.7	-60.7		-49.8	-21.25	28.6
HT/VHT20 STBC, M0 to M7	4	6	-61.6	-59.7	-60.7	-57.8	-47.7	-21.25	26.4

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Conducted Spurs Average, All Antennas









Conducted Spurs Average, 5300 MHz, HT/VHT20 Beam Forming, M0 to M7





### Antenna A



Antenna B

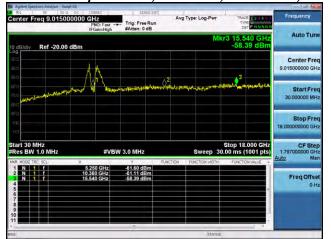


Antenna C

Antenna D



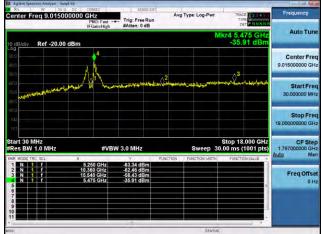
Conducted Spurs Peak, 5250 MHz, Non HT160, 6 to 54 Mbps

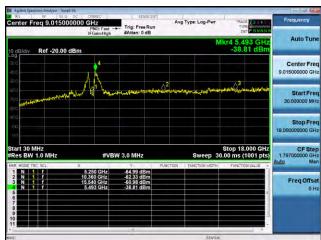




### Antenna A







Antenna C

Antenna D



## A.4 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:

- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (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 v01r01 ANSI C63.10: 2013

### **Conducted Bandedge**

Test Procedure

- 1. Connect the antenna port(s) to the spectrum analyzer input.
- 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.
- 3. Configure Spectrum analyzer as per test parameters below (be sure to enter all losses between the transmitter output and the spectrum analyzer).
- 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.
- 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.
- 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
- 7. Capture graphs and record pertinent measurement data.

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

VBW ≥ 3 x RBW for Peak, 100Hz for Average

Sweep = Auto couple

Detector = Peak

Trace = Max Hold.

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System Number	Description	Samples	System under test	Support equipment
4	EUT	S01	$\checkmark$	
1	Support	S02		$\checkmark$

Tested By :	Date of testing:
Jose Aguirre	01-Jan-16 - 03-Mar-16
Test Result : PASS	

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)
	Non HT160, 6 to 54 Mbps	1	6	-49.7				-43.7	-41.25	2.5
	Non HT160, 6 to 54 Mbps	2	6	-51.7	-51.8			-42.7	-41.25	1.5
	Non HT160, 6 to 54 Mbps	3	6	-53.3	-51.5	-52.0		-41.4	-41.25	0.2
	Non HT160, 6 to 54 Mbps	4	6	-54.8	-51.1	-53.6	-55.5	-41.4	-41.25	0.1
	VHT160, M0.1 to M9.1	1	6	-48.7				-42.7	-41.25	1.5
	VHT160, M0.1 to M9.1	2	6	-51.0	-53.8			-43.2	-41.25	1.9
	VHT160, M0.2 to M9.2	2	6	-51.0	-53.8			-43.2	-41.25	1.9
	VHT160, M0.1 to M9.1	3	6	-52.9	-55.4	-51.1		-42.0	-41.25	0.8
	VHT160, M0.2 to M9.2	3	6	-52.9	-55.4	-51.1		-42.0	-41.25	0.8
	VHT160, M0.3 to M9.3	3	6	-52.9	-55.4	-51.1		-42.0	-41.25	0.8
	VHT160, M0.1 to M9.1	4	6	-54.9	-56.9	-53.2	-53.8	-42.5	-41.25	1.2
5250	VHT160, M0.2 to M9.2	4	6	-54.9	-56.9	-53.2	-53.8	-42.5	-41.25	1.2
52	VHT160, M0.3 to M9.3	4	6	-54.9	-56.9	-53.2	-53.8	-42.5	-41.25	1.2
	VHT160 Beam Forming, M0.1 to M9.1	2	6	-51.0	-53.8			-43.2	-41.25	1.9
	VHT160 Beam Forming, M0.2 to M9.2	2	6	-51.0	-53.8			-43.2	-41.25	1.9
	VHT160 Beam Forming, M0.1 to M9.1	3	6	-52.9	-55.4	-51.1		-42.0	-41.25	0.8
	VHT160 Beam Forming, M0.2 to M9.2	3	6	-52.9	-55.4	-51.1		-42.0	-41.25	0.8
	VHT160 Beam Forming, M0.3 to M9.3	3	6	-52.9	-55.4	-51.1		-42.0	-41.25	0.8
	VHT160 Beam Forming, M0.1 to M9.1	4	6	-54.9	-56.9	-53.2	-53.8	-42.5	-41.25	1.2
	VHT160 Beam Forming, M0.2 to M9.2	4	6	-54.9	-56.9	-53.2	-53.8	-42.5	-41.25	1.2
	VHT160 Beam Forming, M0.3 to M9.3	4	6	-54.9	-56.9	-53.2	-53.8	-42.5	-41.25	1.2
	VHT160 STBC, M0.1 to M9.1	2	6	-51.0	-53.8			-43.2	-41.25	1.9
	VHT160 STBC, M0.1 to M9.1	3	6	-52.9	-55.4	-51.1		-42.0	-41.25	0.8
	VHT160 STBC, M0.1 to M9.1	4	6	-54.9	-56.9	-53.2	-53.8	-42.5	-41.25	1.2
	Non HT80, 6 to 54 Mbps	1	6	-47.8				-41.8	-41.25	0.5
	Non HT80, 6 to 54 Mbps	2	6	-54.5	-54.8			-45.6	-41.25	4.4
	Non HT80, 6 to 54 Mbps	3	6	-55.7	-56.1	-50.1		-42.3	-41.25	1.0
	Non HT80, 6 to 54 Mbps	4	6	-56.8	-57.2	-54.8	-54.3	-43.6	-41.25	2.3
5290	VHT80, M0.1 to M9.1	1	6	-51.2				-45.2	-41.25	4.0
5	VHT80, M0.1 to M9.1	2	6	-51.2	-52.2			-42.7	-41.25	1.4
	VHT80, M0.2 to M9.2	2	6	-51.2	-52.2			-42.7	-41.25	1.4
	VHT80, M0.1 to M9.1	3	6	-52.6	-53.2	-50.7		-41.3	-41.25	0.0
	VHT80, M0.2 to M9.2	3	6	-52.6	-53.2	-50.7		-41.3	-41.25	0.0

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	VHT80, M0.3 to M9.3	3	6	-52.6	-53.2	-50.7		-41.3	-41.25	0.0
	VHT80, M0.1 to M9.1	4	6	-55.1	-55.7	-54.7	-51.5	-41.9	-41.25	0.6
	VHT80, M0.2 to M9.2	4	6	-55.1	-55.7	-54.7	-51.5	-41.9	-41.25	0.6
	VHT80, M0.3 to M9.3	4	6	-55.1	-55.7	-54.7	-51.5	-41.9	-41.25	0.6
	VHT80 Beam Forming, M0.1 to M9.1	2	6	-51.2	-52.2			-42.7	-41.25	1.4
	VHT80 Beam Forming, M0.2 to M9.2	2	6	-51.2	-52.2			-42.7	-41.25	1.4
	VHT80 Beam Forming, M0.1 to M9.1	3	6	-53.8	-54.5	-53.2		-43.0	-41.25	1.8
	VHT80 Beam Forming, M0.2 to M9.2	3	6	-52.6	-53.2	-50.7		-41.3	-41.25	0.0
	VHT80 Beam Forming, M0.3 to M9.3	3	6	-52.6	-53.2	-50.7		-41.3	-41.25	0.0
	VHT80 Beam Forming, M0.1 to M9.1	4	6	-56.2	-56.8	-54.2	-53.0	-42.8	-41.25	1.5
	VHT80 Beam Forming, M0.2 to M9.2	4	6	-55.1	-55.7	-54.7	-51.5	-41.9	-41.25	0.6
	VHT80 Beam Forming, M0.3 to M9.3	4	6	-55.1	-55.7	-54.7	-51.5	-41.9	-41.25	0.6
	VHT80 STBC, M0.1 to M9.1	2	6	-51.2	-52.2			-42.7	-41.25	1.4
	VHT80 STBC, M0.1 to M9.1	3	6	-52.6	-53.2	-50.7		-41.3	-41.25	0.0
	VHT80 STBC, M0.1 to M9.1	4	6	-55.1	-55.7	-54.7	-51.5	-41.9	-41.25	0.6
	Non HT40, 6 to 54 Mbps	1	6	-53.7				-47.7	-41.25	6.5
	Non HT40, 6 to 54 Mbps	2	6	-53.7	-56.6			-45.9	-41.25	4.7
	Non HT40, 6 to 54 Mbps	3	6	-55.7	-58.1	-53.7		-44.7	-41.25	3.5
	Non HT40, 6 to 54 Mbps	4	6	-59.3	-61.8	-57.1	-56.4	-46.2	-41.25	4.9
	HT/VHT40, M0 to M7	1	6	-52.6				-46.6	-41.25	5.4
	HT/VHT40, M0 to M7	2	6	-52.6	-54.7			-44.5	-41.25	3.3
	HT/VHT40, M8 to M15	2	6	-52.6	-54.7			-44.5	-41.25	3.3
	HT/VHT40, M0 to M7	3	6	-55.5	-58.2	-55.1		-45.3	-41.25	4.0
	HT/VHT40, M8 to M15	3	6	-52.6	-54.7	-51.1		-41.8	-41.25	0.5
	HT/VHT40, M16 to M23	3	6	-52.6	-54.7	-51.1		-41.8	-41.25	0.5
	HT/VHT40, M0 to M7	4	6	-60.7	-62.3	-59.0	-57.3	-47.4	-41.25	6.2
10	HT/VHT40, M8 to M15	4	6	-55.2	-57.3	-53.5	-52.2	-42.1	-41.25	0.9
5310	HT/VHT40, M16 to M23	4	6	-55.2	-57.3	-53.5	-52.2	-42.1	-41.25	0.9
	HT/VHT40 Beam Forming, M0 to M7	2	9	-52.6	-54.7			-41.5	-41.25	0.3
	HT/VHT40 Beam Forming, M8 to M15	2	6	-52.6	-54.7			-44.5	-41.25	3.3
	HT/VHT40 Beam Forming, M0 to M7	3	11	-57.4	-59.9	-57.1		-42.4	-41.25	1.1
	HT/VHT40 Beam Forming, M8 to M15	3	8	-55.2	-57.3	-53.5		-42.5	-41.25	1.2
	HT/VHT40 Beam Forming, M16 to M23	3	6	-52.6	-54.7	-51.1		-41.8	-41.25	0.5
	HT/VHT40 Beam Forming, M0 to M7	4	12	-62.0	-62.7	-60.8	-59.2	-42.9	-41.25	1.7
	HT/VHT40 Beam Forming, M8 to M15	4	9	-57.4	-59.9	-57.1	-53.7	-41.4	-41.25	0.2
	HT/VHT40 Beam Forming, M16 to M23	4	7	-55.5	-58.2	-55.1	-53.7	-42.1	-41.25	0.9
	HT/VHT40 STBC, M0 to M7	2	6	-52.6	-54.7			-44.5	-41.25	3.3
	HT/VHT40 STBC, M0 to M7	3	6	-52.6	-54.7	-51.1		-41.8	-41.25	0.5
	HT/VHT40 STBC, M0 to M7	4	6	-55.2	-57.3	-53.5	-52.2	-42.1	-41.25	0.9

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	Non HT20, 6 to 54 Mbps	1	6	-55.6				-49.6	-41.25	8.4
	Non HT20, 6 to 54 Mbps	2	6	-57.9	-58.6			-49.2	-41.25	8.0
	Non HT20, 6 to 54 Mbps	3	6	-61.8	-62.4	-62.3		-51.4	-41.25	10.1
	Non HT20, 6 to 54 Mbps	4	6	-66.6	-63.1	-63.2	-63.5	-51.9	-41.25	10.6
	Non HT20 Beam Forming, 6 to 54 Mbps	2	9	-57.9	-58.6			-46.2	-41.25	5.0
	Non HT20 Beam Forming, 6 to 54 Mbps	3	11	-61.8	-62.4	-62.3		-46.6	-41.25	5.3
	Non HT20 Beam Forming, 6 to 54 Mbps	4	12	-66.6	-63.1	-63.2	-63.5	-45.9	-41.25	4.6
	HT/VHT20, M0 to M7	1	6	-55.0				-49.0	-41.25	7.8
	HT/VHT20, M0 to M7	2	6	-57.8	-58.5			-49.1	-41.25	7.9
	HT/VHT20, M8 to M15	2	6	-55.0	-56.3			-46.6	-41.25	5.3
	HT/VHT20, M0 to M7	3	6	-62.1	-62.7	-62.5		-51.7	-41.25	10.4
	HT/VHT20, M8 to M15	3	6	-59.6	-61.0	-58.5		-48.8	-41.25	7.6
	HT/VHT20, M16 to M23	3	6	-56.6	-57.6	-55.9		-45.9	-41.25	4.6
5320	HT/VHT20, M0 to M7	4	6	-66.6	-63.2	-63.2	-63.5	-51.9	-41.25	10.6
5	HT/VHT20, M8 to M15	4	6	-61.9	-62.5	-62.2	-62.2	-50.2	-41.25	8.9
	HT/VHT20, M16 to M23	4	6	-61.1	-61.8	-59.2	-58.9	-48.1	-41.25	6.8
	HT/VHT20 Beam Forming, M0 to M7	2	9	-57.8	-58.5			-46.1	-41.25	4.9
	HT/VHT20 Beam Forming, M8 to M15	2	6	-55.0	-56.3			-46.6	-41.25	5.3
	HT/VHT20 Beam Forming, M0 to M7	3	11	-62.1	-62.7	-62.5		-46.9	-41.25	5.6
	HT/VHT20 Beam Forming, M8 to M15	3	8	-59.6	-61.0	-58.5		-47.0	-41.25	5.8
	HT/VHT20 Beam Forming, M16 to M23	3	6	-56.6	-57.6	-55.9		-45.9	-41.25	4.6
	HT/VHT20 Beam Forming, M0 to M7	4	12	-66.6	-63.2	-63.2	-63.5	-45.9	-41.25	4.6
	HT/VHT20 Beam Forming, M8 to M15	4	9	-61.9	-62.5	-62.2	-62.2	-47.2	-41.25	5.9
	HT/VHT20 Beam Forming, M16 to M23	4	7	-61.1	-61.8	-59.2	-58.9	-46.9	-41.25	5.6
	HT/VHT20 STBC, M0 to M7	2	6	-55.0	-56.3			-46.6	-41.25	5.3
	HT/VHT20 STBC, M0 to M7	3	6	-59.6	-61.0	-58.5		-48.8	-41.25	7.6
	HT/VHT20 STBC, M0 to M7	4	6	-61.9	-62.5	-62.2	-62.2	-50.2	-41.25	8.9



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)
	Non HT160, 6 to 54 Mbps	1	6	-40.9				-34.9	-21.25	13.7
	Non HT160, 6 to 54 Mbps	2	6	-43.2	-43.3			-34.2	-21.25	13.0
	Non HT160, 6 to 54 Mbps	3	6	-44.1	-44.0	-38.9		-30.8	-21.25	9.6
	Non HT160, 6 to 54 Mbps	4	6	-42.4	-44.0	-41.6	-41.9	-30.4	-21.25	9.1
	VHT160, M0.1 to M9.1	1	6	-37.1				-31.1	-21.25	9.9
	VHT160, M0.1 to M9.1	2	6	-37.5	-36.7			-28.1	-21.25	6.8
	VHT160, M0.2 to M9.2	2	6	-37.5	-36.7			-28.1	-21.25	6.8
	VHT160, M0.1 to M9.1	3	6	-40.2	-38.5	-32.7		-25.1	-21.25	3.9
	VHT160, M0.2 to M9.2	3	6	-40.2	-38.5	-32.7		-25.1	-21.25	3.9
	VHT160, M0.3 to M9.3	3	6	-40.2	-38.5	-32.7		-25.1	-21.25	3.9
	VHT160, M0.1 to M9.1	4	6	-39.7	-41.5	-35.4	-39.3	-26.3	-21.25	5.1
20	VHT160, M0.2 to M9.2	4	6	-39.7	-41.5	-35.4	-39.3	-26.3	-21.25	5.1
5250	VHT160, M0.3 to M9.3	4	6	-39.7	-41.5	-35.4	-39.3	-26.3	-21.25	5.1
	VHT160 Beam Forming, M0.1 to M9.1	2	6	-37.5	-36.7			-28.1	-21.25	6.8
	VHT160 Beam Forming, M0.2 to M9.2	2	6	-37.5	-36.7			-28.1	-21.25	6.8
	VHT160 Beam Forming, M0.1 to M9.1	3	6	-40.2	-38.5	-32.7		-25.1	-21.25	3.9
	VHT160 Beam Forming, M0.2 to M9.2	3	6	-40.2	-38.5	-32.7		-25.1	-21.25	3.9
	VHT160 Beam Forming, M0.3 to M9.3	3	6	-40.2	-38.5	-32.7		-25.1	-21.25	3.9
	VHT160 Beam Forming, M0.1 to M9.1	4	6	-39.7	-41.5	-35.4	-39.3	-26.3	-21.25	5.1
	VHT160 Beam Forming, M0.2 to M9.2	4	6	-39.7	-41.5	-35.4	-39.3	-26.3	-21.25	5.1
	VHT160 Beam Forming, M0.3 to M9.3	4	6	-39.7	-41.5	-35.4	-39.3	-26.3	-21.25	5.1
	VHT160 STBC, M0.1 to M9.1	2	6	-37.5	-36.7			-28.1	-21.25	6.8
	VHT160 STBC, M0.1 to M9.1	3	6	-40.2	-38.5	-32.7		-25.1	-21.25	3.9
	VHT160 STBC, M0.1 to M9.1	4	6	-39.7	-41.5	-35.4	-39.3	-26.3	-21.25	5.1
	Non HT80, 6 to 54 Mbps	1	6	-27.8				-21.8	-21.25	0.6
	Non HT80, 6 to 54 Mbps	2	6	-38.0	-41.1			-30.3	-21.25	9.0
	Non HT80, 6 to 54 Mbps	3	6	-38.1	-43.3	-39.5		-29.0	-21.25	7.8
	Non HT80, 6 to 54 Mbps	4	6	-42.4	-45.5	-39.9	-38.4	-28.8	-21.25	7.5
5290	VHT80, M0.1 to M9.1	1	6	-30.4				-24.4	-21.25	3.2
5	VHT80, M0.1 to M9.1	2	6	-30.4	-32.0			-22.1	-21.25	0.9
	VHT80, M0.2 to M9.2	2	6	-30.4	-32.0			-22.1	-21.25	0.9
	VHT80, M0.1 to M9.1	3	6	-32.5	-33.4	-34.2		-22.5	-21.25	1.3
	VHT80, M0.2 to M9.2	3	6	-32.5	-33.4	-34.2		-22.5	-21.25	1.3

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	VHT80, M0.3 to M9.3	3	6	-32.5	-33.4	-34.2		-22.5	-21.25	1.3
	VHT80, M0.1 to M9.1	4	6	-35.7	-36.3	-36.9	-34.4	-23.7	-21.25	2.5
	VHT80, M0.2 to M9.2	4	6	-35.7	-36.3	-36.9	-34.4	-23.7	-21.25	2.5
	VHT80, M0.3 to M9.3	4	6	-35.7	-36.3	-36.9	-34.4	-23.7	-21.25	2.5
	VHT80 Beam Forming, M0.1 to M9.1	2	6	-30.4	-32.0			-22.1	-21.25	0.9
	VHT80 Beam Forming, M0.2 to M9.2	2	6	-30.4	-32.0			-22.1	-21.25	0.9
	VHT80 Beam Forming, M0.1 to M9.1	3	6	-35.0	-34.7	-36.5		-24.6	-21.25	3.3
	VHT80 Beam Forming, M0.2 to M9.2	3	6	-32.5	-33.4	-34.2		-22.5	-21.25	1.3
	VHT80 Beam Forming, M0.3 to M9.3	3	6	-32.5	-33.4	-34.2		-22.5	-21.25	1.3
	VHT80 Beam Forming, M0.1 to M9.1	4	6	-37.4	-36.8	-37.3	-36.6	-25.0	-21.25	3.7
	VHT80 Beam Forming, M0.2 to M9.2	4	6	-35.7	-36.3	-36.9	-34.4	-23.7	-21.25	2.5
	VHT80 Beam Forming, M0.3 to M9.3	4	6	-35.7	-36.3	-36.9	-34.4	-23.7	-21.25	2.5
	VHT80 STBC, M0.1 to M9.1	2	6	-30.4	-32.0			-22.1	-21.25	0.9
	VHT80 STBC, M0.1 to M9.1	3	6	-32.5	-33.4	-34.2		-22.5	-21.25	1.3
	VHT80 STBC, M0.1 to M9.1	4	6	-35.7	-36.3	-36.9	-34.4	-23.7	-21.25	2.5
	Non HT40, 6 to 54 Mbps	1	6	-30.1				-24.1	-21.25	2.9
	Non HT40, 6 to 54 Mbps	2	6	-30.1	-31.6			-21.8	-21.25	0.5
	Non HT40, 6 to 54 Mbps	3	6	-34.8	-36.5	-36.4		-25.1	-21.25	3.8
	Non HT40, 6 to 54 Mbps	4	6	-44.4	-47.4	-44.7	-42.1	-32.2	-21.25	11.0
	HT/VHT40, M0 to M7	1	6	-33.8				-27.8	-21.25	6.6
	HT/VHT40, M0 to M7	2	6	-33.8	-32.9			-24.3	-21.25	3.1
	HT/VHT40, M8 to M15	2	6	-33.8	-32.9			-24.3	-21.25	3.1
	HT/VHT40, M0 to M7	3	6	-38.8	-42.1	-40.5		-29.5	-21.25	8.2
	HT/VHT40, M8 to M15	3	6	-33.8	-32.9	-35.5		-23.2	-21.25	1.9
	HT/VHT40, M16 to M23	3	6	-33.8	-32.9	-35.5		-23.2	-21.25	1.9
	HT/VHT40, M0 to M7	4	6	-39.5	-41.0	-38.9	-38.5	-27.4	-21.25	6.1
5310	HT/VHT40, M8 to M15	4	6	-36.8	-35.1	-32.8	-36.0	-22.9	-21.25	1.6
53	HT/VHT40, M16 to M23	4	6	-36.8	-35.1	-32.8	-36.0	-22.9	-21.25	1.6
	HT/VHT40 Beam Forming, M0 to M7	2	9	-33.8	-32.9			-21.3	-21.25	0.1
	HT/VHT40 Beam Forming, M8 to M15	2	6	-33.8	-32.9			-24.3	-21.25	3.1
	HT/VHT40 Beam Forming, M0 to M7	3	11	-40.0	-44.7	-42.0		-26.3	-21.25	5.0
	HT/VHT40 Beam Forming, M8 to M15	3	8	-36.8	-35.1	-32.8		-22.0	-21.25	0.8
	HT/VHT40 Beam Forming, M16 to M23	3	6	-33.8	-32.9	-35.5		-23.2	-21.25	1.9
	HT/VHT40 Beam Forming, M0 to M7	4	12	-44.3	-39.9	-35.9	-41.6	-21.3	-21.25	0.1
	HT/VHT40 Beam Forming, M8 to M15	4	9	-40.0	-44.7	-42.0	-39.6	-26.1	-21.25	4.9
	HT/VHT40 Beam Forming, M16 to M23	4	7	-38.8	-42.1	-40.5	-36.4	-25.7	-21.25	4.5
	HT/VHT40 STBC, M0 to M7	2	6	-33.8	-32.9			-24.3	-21.25	3.1
	HT/VHT40 STBC, M0 to M7	3	6	-33.8	-32.9	-35.5		-23.2	-21.25	1.9
	HT/VHT40 STBC, M0 to M7	4	6	-36.8	-35.1	-32.8	-36.0	-22.9	-21.25	1.6

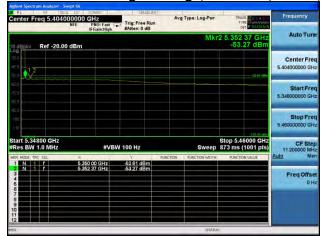
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Non HT20, 6 to 54 Mbps	1	6	-39.8				-33.8	-21.25	12.6
Non HT20, 6 to 54 Mbps	2	6	-39.8	-37.3			-29.4	-21.25	8.1
Non HT20, 6 to 54 Mbps	3	6	-36.6	-39.0	-38.0		-27.0	-21.25	5.7
Non HT20, 6 to 54 Mbps	4	6	-42.4	-46.6	-46.8	-48.9	-33.5	-21.25	12.2
Non HT20 Beam Forming, 6 to 54 Mbps	2	9	-39.8	-37.3			-26.4	-21.25	5.1
Non HT20 Beam Forming, 6 to 54 Mbps	3	11	-36.6	-39.0	-38.0		-22.2	-21.25	0.9
Non HT20 Beam Forming, 6 to 54 Mbps	4	12	-42.4	-46.6	-46.8	-48.9	-27.5	-21.25	6.2
HT/VHT20, M0 to M7	1	6	-35.3				-29.3	-21.25	8.1
HT/VHT20, M0 to M7	2	6	-43.1	-39.5			-31.9	-21.25	10.7
HT/VHT20, M8 to M15	2	6	-35.3	-40.4			-28.1	-21.25	6.9
HT/VHT20, M0 to M7	3	6	-37.9	-43.7	-40.1		-29.2	-21.25	7.9
HT/VHT20, M8 to M15	3	6	-40.2	-36.2	-34.9		-25.8	-21.25	4.6
HT/VHT20, M16 to M23	3	6	-39.7	-42.8	-35.9		-27.8	-21.25	6.6
HT/VHT20, M0 to M7	4	6	-42.1	-46.5	-44.6	-43.9	-32.0	-21.25	10.7
HT/VHT20, M8 to M15	4	6	-38.3	-40.4	-39.7	-39.1	-27.3	-21.25	6.0
HT/VHT20, M16 to M23	4	6	-42.4	-42.6	-41.0	-39.4	-29.1	-21.25	7.9
HT/VHT20 Beam Forming, M0 to M7	2	9	-43.1	-39.5			-28.9	-21.25	7.7
HT/VHT20 Beam Forming, M8 to M15	2	6	-35.3	-40.4			-28.1	-21.25	6.9
HT/VHT20 Beam Forming, M0 to M7	3	11	-37.9	-43.7	-40.1		-24.4	-21.25	3.1
HT/VHT20 Beam Forming, M8 to M15	3	8	-40.2	-36.2	-34.9		-24.0	-21.25	2.8
HT/VHT20 Beam Forming, M16 to M23	3	6	-39.7	-42.8	-35.9		-27.8	-21.25	6.6
HT/VHT20 Beam Forming, M0 to M7	4	12	-42.1	-46.5	-44.6	-43.9	-26.0	-21.25	4.7
HT/VHT20 Beam Forming, M8 to M15	4	9	-38.3	-40.4	-39.7	-39.1	-24.3	-21.25	3.0
HT/VHT20 Beam Forming, M16 to M23	4	7	-42.4	-42.6	-41.0	-39.4	-27.9	-21.25	6.7
HT/VHT20 STBC, M0 to M7	2	6	-35.3	-40.4			-28.1	-21.25	6.9
HT/VHT20 STBC, M0 to M7	3	6	-40.2	-36.2	-34.9		-25.8	-21.25	4.6
HT/VHT20 STBC, M0 to M7	4	6	-38.3	-40.4	-39.7	-39.1	-27.3	-21.25	6.0
	Non HT20, 6 to 54 Mbps Non HT20, 6 to 54 Mbps Non HT20, 6 to 54 Mbps Non HT20 Beam Forming, 6 to 54 Mbps HT/VHT20, M0 to M7 HT/VHT20, M0 to M7 HT/VHT20, M8 to M15 HT/VHT20, M8 to M15 HT/VHT20, M8 to M15 HT/VHT20, M16 to M23 HT/VHT20, M16 to M23 HT/VHT20, M8 to M15 HT/VHT20 Beam Forming, M0 to M7 HT/VHT20 Beam Forming, M0 to M7 HT/VHT20 Beam Forming, M8 to M15 HT/VHT20 Beam Forming, M8 to M23 HT/VHT20 Beam Forming, M8 to M23 HT/VHT20 Beam Forming, M8 to M23 HT/VHT20 STBC, M0 to M7	Non HT20, 6 to 54 Mbps  Non HT20, 6 to 54 Mbps  Non HT20, 6 to 54 Mbps  Non HT20 Beam Forming, 6 to 54 Mbps  HT/VHT20, M0 to M7  HT/VHT20, M0 to M7  HT/VHT20, M8 to M15  HT/VHT20, M8 to M15  HT/VHT20, M8 to M15  HT/VHT20, M16 to M23  HT/VHT20, M8 to M15  HT/VHT20 Beam Forming, M0 to M7  HT/VHT20 Beam Forming, M8 to M15  HT/VHT20 STBC, M0 to M7  2  HT/VHT20 STBC, M0 to M7	Non HT20, 6 to 54 Mbps  Non HT20, 6 to 54 Mbps  Non HT20, 6 to 54 Mbps  Non HT20 Beam Forming, 6 to 54 Mbps  HT/VHT20, M0 to M7  HT/VHT20, M0 to M7  HT/VHT20, M0 to M7  HT/VHT20, M8 to M15  HT/VHT20, M8 to M15  HT/VHT20, M16 to M23  HT/VHT20, M16 to M23  HT/VHT20, M8 to M15  HT/VHT20, M8 to M15  HT/VHT20, M16 to M23  HT/VHT20, M16 to M23  HT/VHT20 Beam Forming, M0 to M7  HT/VHT20 Beam Forming, M8 to M15  HT/VHT20 Beam Forming, M8 to M15	Non HT20, 6 to 54 Mbps  Non HT20, 6 to 54 Mbps  Non HT20, 6 to 54 Mbps  Non HT20 Beam Forming, 6 to 54 Mbps  HT/VHT20, M0 to M7  Non HT20 Beam Forming, 6 to 54 Mbps  HT/VHT20, M0 to M7  Non HT20 Beam Forming, 6 to 54 Mbps  HT/VHT20, M0 to M7  Non HT20 Beam Forming, M0 to M7  Non HT20, M0 to M7  Non HT20, M0 to M7  HT/VHT20, M0 to M7  Non HT20, M0 to M23  HT/VHT20, M0 to M23  HT/VHT20, M0 to M23  HT/VHT20, M0 to M23  HT/VHT20, M16 to M23  HT/VHT20, M16 to M23  HT/VHT20 Beam Forming, M0 to M7  HT/VHT20 Beam Forming, M0 to M7  HT/VHT20 Beam Forming, M0 to M7  HT/VHT20 Beam Forming, M8 to M15  HT/VHT20 Beam Forming, M16 to M23  HT/VHT20 STBC, M0 to M7  RT2  HT/VHT20 STBC, M0 to M7  RT2  HT/VHT20 STBC, M0 to M7  RT3  HT/VHT20 STBC, M0 to M7	Non HT20, 6 to 54 Mbps  Non HT20 Beam Forming, 6 to 54 Mbps  HT/VHT20, M0 to M7  Non HT20, M0 to M7  Non HT20, M0 to M7  Non HT20, M8 to M15  Non HT20, M16 to M23  Non HT20, M16 to M24  Non HT20, M16 to M25  Non HT20, M16 to M25  Non HT20, M16 to M25  Non HT20, M16 to M26  Non HT20, M16	Non HT20, 6 to 54 Mbps  Non HT20 Beam Forming, M0 to M7  Non HT20 Beam Forming, M0 to M7  Non HT20 Beam Forming, M16 to M23  Non HT20	Non HT20, 6 to 54 Mbps Non HT20 Beam Forming, M0 to M7 Non HT20 Beam Forming, M16 to M23 N	Non HT20, 6 to 54 Mbps 2	Non HT20, 6 to 54 Mbps  2 6 -39.8   -37.3   -29.4   -21.25   Non HT20, 6 to 54 Mbps  3 6 -36.6   -39.0   -38.0   -27.0   -21.25   Non HT20, 6 to 54 Mbps  4 6 -42.4   -46.6   -46.8   -48.9   -33.5   -21.25   Non HT20 Beam Forming, 6 to 54 Mbps  3 11 -36.6   -39.0   -38.0   -26.4   -21.25   Non HT20 Beam Forming, 6 to 54 Mbps  3 11 -36.6   -39.0   -38.0   -22.2   -21.25   Non HT20 Beam Forming, 6 to 54 Mbps  4 12 -42.4   -46.6   -46.8   -48.9   -27.5   -21.25   Non HT20 Beam Forming, 6 to 54 Mbps  4 12 -42.4   -46.6   -46.8   -48.9   -27.5   -21.25   Non HT20, M0 to M7  1 6 -35.3   -29.3   -21.25   Non HT20, M0 to M7  2 6 -43.1   -39.5   -39.5   -29.3   -21.25   Non HT20, M0 to M7  3 6 -37.9   -43.7   -40.1   -29.2   -21.25   Non HT20, M0 to M7  3 6 -37.9   -43.7   -40.1   -29.2   -21.25   Non HT20, M0 to M7  4 6 -38.3   -40.4   -40.1   -29.2   -21.25   Non HT20, M0 to M7  4 6 -38.3   -40.4   -39.7   -39.1   -27.3   -21.25   Non HT20, M0 to M7  4 6 -42.1   -46.5   -44.6   -43.9   -32.0   -21.25   Non HT20, M0 to M7  4 6 -42.1   -46.5   -44.6   -43.9   -39.1   -27.3   -21.25   Non HT20, M16 to M23   -4 6   -42.4   -42.6   -41.0   -39.4   -29.1   -21.25   Non HT20, M16 to M23   -4 6   -35.3   -40.4   -4 -39.7   -39.1   -27.3   -21.25   Non HT20, M16 to M23   -4 6   -35.3   -40.4   -39.7   -39.1   -27.3   -21.25   Non HT20, M16 to M23   -4 6   -35.3   -40.4   -39.7   -39.1   -27.3   -21.25   Non HT20, M16 to M23   -4 6   -35.3   -40.4   -39.7   -39.1   -27.3   -21.25   Non HT20, M16 to M23   -4 6   -35.3   -40.4   -39.7   -39.1   -27.3   -21.25   Non HT20, M16 to M23   -4 6   -35.3   -40.4   -39.7   -39.1   -27.3   -21.25   Non HT20, M16 to M23   -4 6   -35.3   -40.4   -39.7   -39.1   -27.3   -21.25   Non HT20, M16 to M23   -4 6   -35.3   -40.4   -39.7   -39.1   -27.3   -21.25   Non HT20, M16 to M23   -4 6   -35.3   -40.4   -39.7   -39.1   -27.3   -21.25   Non HT20, M16 to M23   -4 6   -35.3   -4 0.4   -39.7   -39.1   -21.25   Non HT20, M16 to M23   -4 6   -35.3   -4 0.4   -39.7   -39.1   -21.25   Non HT20, M20, M20



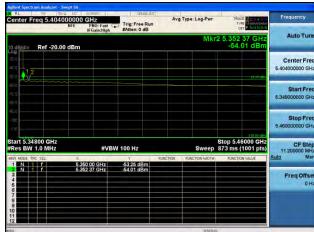
### Conducted Bandedge Average, 5290 MHz, VHT80, M0.1 to M9.1



#### Antenna A



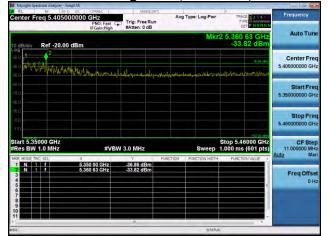
Antenna C

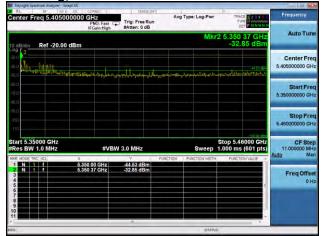


Antenna B



Conducted Bandedge Peak, 5310 MHz, HT/VHT40 Beam Forming, M0 to M7





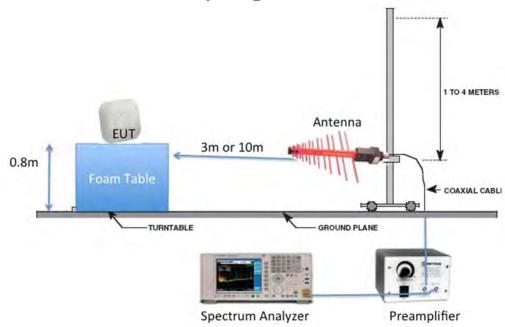
Antenna A Antenna B



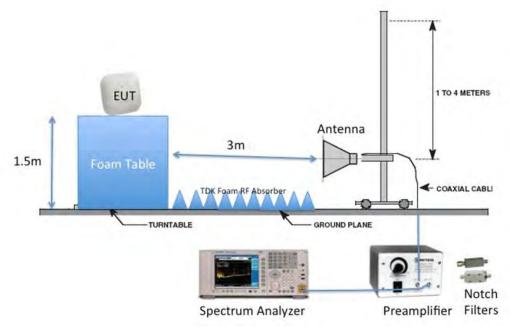
### Appendix B: Emission Test Results

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

# **Radiated Emission Setup Diagram-Below 1G**



# **Radiated Emission Setup Diagram-Above 1G**





## **B.1** Radiated 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.
- (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

Ref. ANSI C63.10: 2013 section 12.7.6 (peak) & 12.7.7.3 (average)

Using Vasona, configure the spectrum analyzer as shown below (be sure to enter all losses between the transmitter output and the spectrum analyzer). Place the radio in continuous transmit mode.

Span: 1GHz – 18 GHz/18GHz-26G/26GHz-40GHz

Reference Level: 80 dBuV Attenuation: 10 dB Sweep Time: Coupled Resolution Bandwidth: 1MHz

Video Bandwidth: 3 MHz for peak, 1 KHz for average

Detector: Peak

Terminate the access Point RF ports with 50 ohm loads.

Maximize Turntable (find worst case table angle), Maximize Antenna (find worst case height)

Save 2 plots: 1) Average plot (Vertical and Horizontal), Limit= 54dBuV/m @3m

2) Peak plot (Vertical and Horizontal), Limit = 74dBuV/m @3m

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.

This report represents the worst case data for all supported operating modes and antennas. There are no measurable emissions above 18 GHz.

System Number	Description	Samples	System under test	Support equipment
1	EUT	S01	$\checkmark$	
	Support	S02		<b>S</b>

Tested By :	Date of testing:		
Jose Aguirre	01-Jan-16 - 03-Mar-16		
Test Result : PASS			

See Appendix C for list of test equipment

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# **B.1.A** Transmitter Radiated Spurious Emissions-Average worst case

			Spurious Emission		
Frequency (MHz)	Mode	Data Rate (Mbps)	Level (dBuV/m)	Limit (dBuV/m)	Margin (MHz)
5260	Non HT/VHT20, 6 to 54 Mbps	6	50.0	54.0	4.0
5270	HT/VHT40, M0 to M7, M0 to M9 1ss	m0	50.3	54.0	3.7
5280	Non HT/VHT20, 6 to 54 Mbps	m0x1	49.6	54.0	4.4
5290	HT/VHT80, M0 to M7, M0 to M9 1ss	6	50.0	54.0	4.0
5310	HT/VHT40, M0 to M7, M0 to M9 1ss	m0	50.4	54.0	3.6
5320	Non HT/VHT20, 6 to 54 Mbps	6	50.1	54.0	3.9



### B.1.A.1 Radiated Transmitter Spurs, 5260 MHz, Non HT/VHT20, 6 to 54 Mbps, Average (1-18GHz)



### B.1.A.2 Radiated Transmitter Spurs, 5270 MHz, HT/VHT40, M0 to M7, M0 to M9 1ss Average (1-18GHz)





## B.1.A.3 Radiated Transmitter Spurs, 5280 MHz, Non HT/VHT20, 6 to 54 Mbps, Average (1-18GHz)



### B.1.A.4 Radiated Transmitter Spurs, 5290 MHz, HT/VHT80, M0 to M7, M0 to M9 1ss, Average (1-18GHz)





### B.1.A.5 Radiated Transmitter Spurs, 5310 MHz, HT/VHT40, M0 to M7, M0 to M9 1ss, Average (1-18GHz)



### B.1.A.6 Radiated Transmitter Spurs, 5320 MHz, Non HT/VHT20, 6 to 54 Mbps, Average (1-18GHz)





### B.1.A.7 Radiated Transmitter Spurs, All rate, All modes, Average (18-26.5GHz)



## B.1.A.8 Radiated Transmitter Spurs, All rate, All modes, Average (26.5-40GHz)



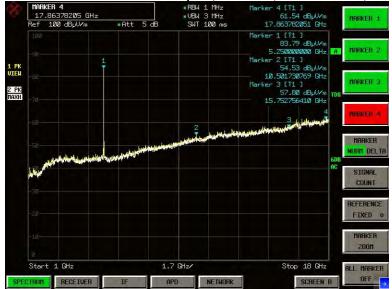


# B.1.P Transmitter Radiated Spurious Emissions-Peak worst case

			Spurious Emission		
Frequency (MHz)	Mode	Data Rate (Mbps)	Level (dBuV/m)	Limit (dBuV/m)	Margin (MHz)
5260	Non HT/VHT20, 6 to 54 Mbps	6	61.6	74.0	12.4
5270	HT/VHT40, M0 to M7, M0 to M9 1ss	m0	62.2	74.0	11.8
5280	Non HT/VHT20, 6 to 54 Mbps	6	61.5	74.0	12.5
5290	HT/VHT80, M0 to M7, M0 to M9 1ss	m0x1	62.4	74.0	11.6
5310	HT/VHT40, M0 to M7, M0 to M9 1ss	m0	61.9	74.0	12.1
5320	Non HT/VHT20, 6 to 54 Mbps	6	61.0	74.0	13.0



#### B.1.P.1 Radiated Transmitter Spurs, 5260 MHz, Non HT/VHT20, 6 to 54 Mbps, (1-18GHz)

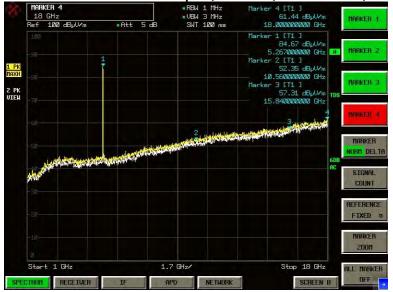


#### B.1.P.2 Radiated Transmitter Spurs, 5270 MHz, HT/VHT40, M0 to M7, M0 to M9 1ss, Peak (1-18GHz)

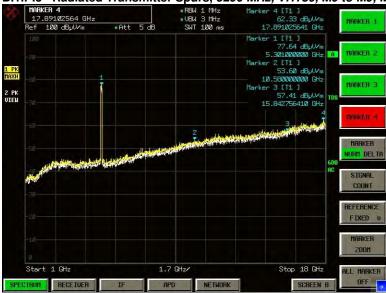




## B.1.P.4 Radiated Transmitter Spurs, 5280 MHz, Non HT/VHT20, 6 to 54 Mbps, Peak (1-18GHz)

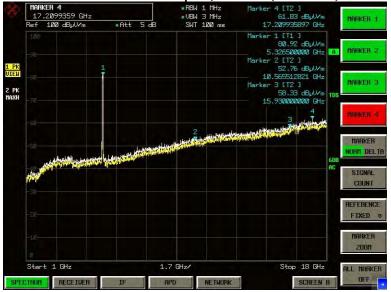


### B.1.P.3 Radiated Transmitter Spurs, 5290 MHz, VHT80, M0 to M9, M0 to M9 1.1, Peak (1-18GHz)

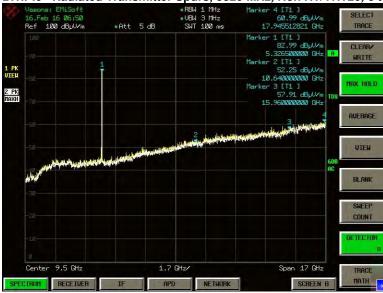




#### B.1.P.5 Radiated Transmitter Spurs, 5310 MHz, HT/VHT40, M0 to M7, M0 to M9 1ss, Peak (1-18GHz)

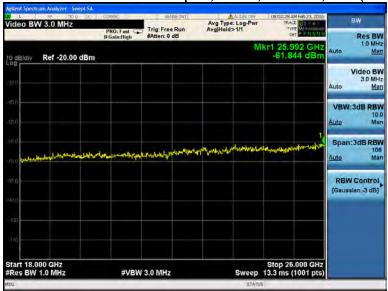


#### B.1.P.6 Radiated Transmitter Spurs, 5320 MHz, Non HT/VHT20, 6 to 54 Mbps, Peak (1-18GHz)





#### B.1.P.7 Radiated Transmitter Spurs, All rate, All modes, Peak (18-26.5GHz)



#### B.1.P.8 Radiated Transmitter Spurs, All rate, All modes, Peak (26.5-40GHz)





## **B.2** Radiated Receiver Spurious Emissions

RSS-GEN: Receivers, are required to comply with the limits of spurious emissions as set out in this section. Receiver emission measurements are to be performed as per the normative test method referenced in Section 3.

For emissions at frequencies below 1 GHz, measurements shall be performed using a CISPR quasi-peak detector and the related measurement bandwidth. At frequencies above 1 GHz, measurements shall be performed using a linear average detector with a minimum resolution bandwidth of 1 MHz

**Ref.** ANSI C63.10: 2013 section 12.7.6 (peak) & 12.7.7.3 (average)

Using Vasona, configure the spectrum analyzer as shown below (be sure to enter all losses between the transmitter output and the spectrum analyzer). Place the radio in continuous transmit mode.

Span: 1GHz – 18 GHz/18GHz-26G/26GHz-40GHz

Reference Level: 80 dBuV Attenuation: 10 dB Sweep Time: Coupled Resolution Bandwidth: 1MHz

Video Bandwidth: 3 MHz for peak, 1 KHz for average

Detector: Peak

Terminate the access Point RF ports with 50 ohm loads.

Maximize Turntable (find worst case table angle), Maximize Antenna (find worst case height)

Save 2 plots: 1) Average plot (Vertical and Horizontal), Limit= 54dBuV/m @3m

2) Peak plot (Vertical and Horizontal), Limit = 74dBuV/m @3m

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.

This report represents the worst case data for all supported operating modes and antennas. There are no measurable emissions above 18 GHz.

	System Number	Description	Samples	System under test	Support equipment
	1	EUT	S01	$\checkmark$	
		Support	S02		$\checkmark$

Tested By :	Date of testing:
Jose Aguirre	01-Jan-16 - 22-Feb-16
Test Result : PASS	

See Appendix C for list of test equipment

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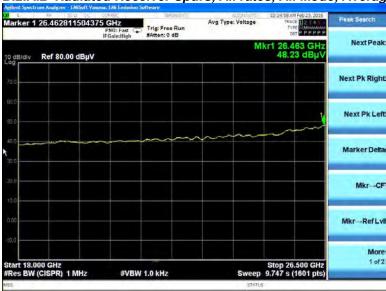


## **B.2.A Receiver Radiated Spurious Emissions Average Measurements**

#### B.2.A.1 Radiated Receiver Spurs, All rates, All Mode, Average (1-18GHz)



#### B.2.A.2 Radiated Receiver Spurs, All rates, All Mode, Average (18-26.5GHz)





#### B.2.A.3 Radiated Receiver Spurs, All rates, All Mode, Average (26.5-40GHz)





## **B.2.P Receiver Radiated Spurious Emissions Peak Measurements**

## B.2.P.1 Radiated Receiver Spurs, All rates, All Mode, Peak (1-18GHz)



#### B.2.P.2 Radiated Receiver Spurs, All rates, All Mode, Peak (18-26.5GHz)





#### B.2.P.3 Radiated Receiver Spurs, All rates, All Mode, Peak (26.5-40GHz)





#### B.3 Radiated Emissions 30MHz to 1GHz

#### 15.205 / 15.209 / RSS-Gen:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), and RSS-Gen sec 8.10 must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)) and RSS-Gen sec 8.9

Ref. ANSI C63.10: 2013 section 6.5

Using Vasona, configure the spectrum analyzer as shown below (be sure to enter all losses between the transmitter output and the spectrum analyzer). Place the radio in continuous transmit mode.

Span: 30MHz – 1GHz
Reference Level: 80 dBuV
Attenuation: 10 dB
Sweep Time: Coupled
Resolution Bandwidth: 100kHz
Video Bandwidth: 300kHz

Detector: Peak for Pre-scan, Quasi-Peak

Compliance shall be determined using CISPR quasi-peak detection; however, peak detection is permitted as an alternative to quasi-peak

detection.

Terminate the access Point RF ports with 50 ohm loads.

Maximize Turntable (find worst case table angle), Maximize Antenna (find worst case height)

This report represents the worst case data for all supported operating modes and antennas.

System Number	Description	Samples	System under test	Support equipment
	EUT	S01	$\checkmark$	
1	Support	S02		$\checkmark$

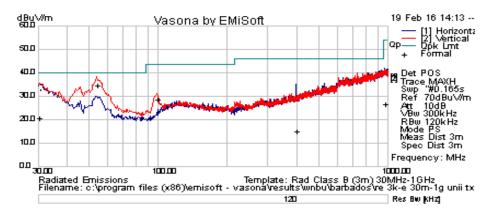
Tested By :	Date of testing:
Jose Aguirre	01-Jan-16 - 03-Mar-16
Test Result : PASS	

See Appendix C for list of test equipment



#### **Graphical Test Results**

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



#### **Test Result**

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measureme nt Type	P o 1	Hgt cm	Azt Deg	Limit dBuV/m	Margi n dB	Pass /Fail
967.505	0.54	2.96	23.1	26.6	Quasi Max	Н	389	52	54	-27.4	Pass
53.998	26.59	0.7	7.35	34.65	Quasi Max	V	110	142	40	-5.35	Pass
98.87	18.09	0.93	9.89	28.92	Quasi Max	V	157	194	43.5	-14.58	Pass
398.115	-1.71	1.89	15.0 6	15.24	Quasi Max	Н	326	200	46	-30.76	Pass
30.485	-0.96	0.49	21.2	20.81	Quasi Max	V	355	350	40	-19.19	Pass



## **B.4** AC Conducted Emissions

#### 15.207

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.

#### Measurement Procedure

Accordance with ANSI C63.10:2013 section 6.2

Using Vasona, configure the spectrum analyzer as shown below (be sure to enter all losses between the transmitter output and the spectrum analyzer). Place the radio in continuous transmit mode.

Span: 150 KHz – 30 MHz

Attenuation: 10 dB Sweep Time: Coupled Resolution Bandwidth: 9 KHz Video Bandwidth: 30 KHz

Detector: Quasi-Peak / Average

This report represents the worst case data for all supported operating modes.

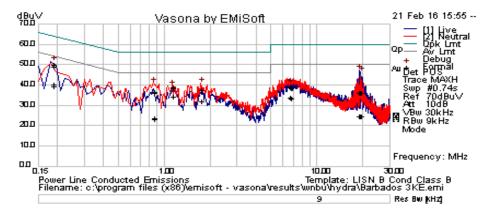
System #	Description	Samples
1	EUT	S01
2	Support Power Supply	S02

Tested By :	Date of testing:
Jose Aguirre	01-Jan-16 - 03-Mar-16
Test Result : Pass	



#### **Graphical Test Results**

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements

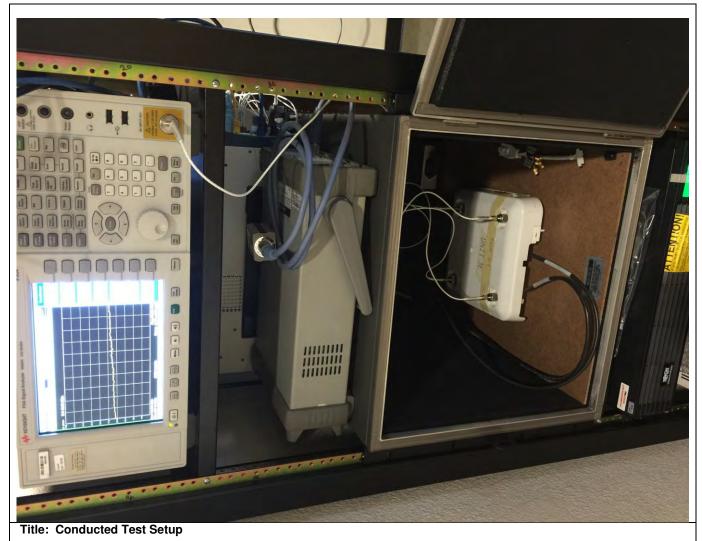


#### **Test Results**

Frequency	Raw	Cable	Factors	Level	Measurement		Limit	Margin	Pass
MHz	dBuV	Loss	dB	dBuV	Type	Line	dBuV	dB	/Fail
0.857757	16.19	19.91	0.03	36.14	Quasi Peak	Live	56	-19.86	Pass
0.187244	29.09	20.91	0.06	50.06	Quasi Peak	Live	64.16	-14.1	Pass
19.007406	15.87	20.3	0.2	36.37	Quasi Peak	Live	60	-23.63	Pass
1.755417	17.64	19.9	0.03	37.57	Quasi Peak	Live	56	-18.43	Pass
19.383573	15.92	20.3	0.2	36.42	Quasi Peak	Live	60	-23.58	Pass
6.724028	18.68	20.01	0.07	38.76	Quasi Peak	Live	60	-21.24	Pass
1.131699	18.77	19.9	0.04	38.71	Quasi Peak	Live	56	-17.29	Pass
19.029708	16	20.3	0.2	36.5	Quasi Peak	Neutral	60	-23.5	Pass
0.856911	16.86	19.91	0.03	36.81	Quasi Peak	Neutral	56	-19.19	Pass
19.384527	15.97	20.3	0.2	36.47	Quasi Peak	Neutral	60	-23.53	Pass
0.190178	28.11	20.9	0.06	49.06	Quasi Peak	Neutral	64.03	-14.97	Pass
1.133571	19.28	19.9	0.04	39.22	Quasi Peak	Neutral	56	-16.78	Pass
1.756893	17.73	19.9	0.03	37.66	Quasi Peak	Neutral	56	-18.34	Pass
6.712994	19.08	20.01	0.07	39.16	Quasi Peak	Neutral	60	-20.84	Pass
0.857757	4.02	19.91	0.03	23.97	Average	Live	46	-22.03	Pass
0.187244	19.33	20.91	0.06	40.3	Average	Live	54.16	-13.86	Pass
19.007406	4.14	20.3	0.2	24.65	Average	Live	50	-25.35	Pass
1.755417	12.41	19.9	0.03	32.34	Average	Live	46	-13.66	Pass
19.383573	4.45	20.3	0.2	24.95	Average	Live	50	-25.05	Pass
6.724028	13.39	20.01	0.07	33.47	Average	Live	50	-16.53	Pass
1.131699	14.43	19.9	0.04	34.37	Average	Live	46	-11.63	Pass
19.029708	4.05	20.3	0.2	24.55	Average	Neutral	50	-25.45	Pass
0.856911	3.62	19.91	0.03	23.57	Average	Neutral	46	-22.43	Pass
19.384527	4.22	20.3	0.2	24.72	Average	Neutral	50	-25.28	Pass
0.190178	18.8	20.9	0.06	39.75	Average	Neutral	54.03	-14.28	Pass
1.133571	14.69	19.9	0.04	34.63	Average	Neutral	46	-11.37	Pass
1.756893	12.41	19.9	0.03	32.34	Average	Neutral	46	-13.66	Pass
6.712994	13.86	20.01	0.07	33.94	Average	Neutral	50	-16.06	Pass



#### Photographs of setup



This is a dual band 2.4GHz / 5GHz device. All ports in this test set up photo are connected as all testing is automated. Section 2.6 of this test report given an overview of the different Tx antenna combinations used by this device.



AIR-AP3802E-B-K9 AC Mains Conducted Emissions setup





AIR-AP3802E-B-K9 Radiated Emissions setup 30MHz – 1GHz



AIR-AP3802E-B-K9 Radiated Emissions setup above 1GHz

| OST | OST



## **Appendix C:** List of Test Equipment Used to perform the test

Equip#	Manufacturer/ Model	Manufacturer/ Model Description		Next Due	Test Item				
	Test Equipment used for Radiated Emissions								
CIS005691	NSP1800-25-S1 Miteq	Broadband Preamplifier (1-18GHz)	25-Jun-15	25-Jun-16	B.1				
CIS008448	NSA 5m Chamber Cisco	NSA 5m Chamber	9-Oct-15	9-Oct-16	B.2				
CIS021117	UFB311A-0-2484-520520 Micro-Coax	RF Coaxial Cable, to 18GHz, 248.4 in	24-Aug-15	24-Aug-16	B.1, B.2				
CIS034075	RSG 2000 Schaffner	Reference Spectrum Generator, 1-18GHz	Cal Not Required	Cal Not Required	B.1				
CIS035284	3117 ETS-Lindgren	Double Ridged Waveguide Horn Antenna	30-Sep-15	30-Sep-16	B.1				
CIS037236	50CB-015 JFW	GPIB Control Box	Cal Not Required	Cal Not Required	B.1				
CIS040597	Above 1GHz Site Cal Cisco	Above 1GHz Cispr Site Verification	25-Sep-15	25-Sep-16	B.1				
CIS041979	1840 Cisco	18-40GHz EMI Test Head/Verification Fixture	13-Jul-15	13-Jul-16	B.1				
CIS042266	JB1 Sunol Sciences	Combination Antenna	21-Apr-15	21-Apr-16	B.2				
CIS044940	ESU40 Rohde & Schwarz	EMI Test Receiver, 20Hz-40GHz	2-Nov-15	2-Nov-16	B.1				
CIS054230	iBTHP-5-DB9 Newport	5 inch Temp/RH/Press Sensor w/20ft cable	10-Feb-16	10-Feb-17	B.1, B.2				

	Test Equipment used for AC Mains Conducted Emissions						
Equip No	Model Manufacturer	Description	Last Cal	Next Cal	Test Item		
CIS002464	FCC-801-M2-16 Fischer Custom Communications	CDN, 2-LINE, 16A	12-Mar-15	12-Mar-16	B.3		
CIS049532	H785-150K-50-21378 TTE	High Pass Filter	8-May-15	8-May-16	B.3		
CIS020913	FCC-LISN-PA-NEMA-5-15 Fischer Custom Communications	AC Adapter	8-May-15	8-May-16	B.3		
CIS007704	FCC-LISN-50/250-50-2-01 Fischer Custom Communications	LISN	8-May-15	8-May-16	B.3		
CIS008185	FCC-450B-2.4-N Fischer Custom Communications	Instrumentation Limiter	28-Jul-15	28-Jul-16	B.3		
CIS051756	5-T-MB Bird	5W 50 Ohm BNC Termination 4GHz	6-Aug-15	6-Aug-16	B.3		
CIS049563	Sucoflex 106A Huber + Suhner	N Type Cable 18GHz	24-Aug-15	24-Aug-16	B.3		
CIS021117	UFB311A-0-2484-520520 Micro-Coax	RF Coaxial Cable, to 18GHz, 248.4 in	24-Aug-15	24-Aug-16	B.3		
CIS044940	ESU40 Rohde & Schwarz	EMI Test Receiver, 20Hz-40GHz	2-Nov-15	2-Nov-16	B.3		
CIS054647	33-605 Stanley	10meter Measuring Tape	Cal not required	Cal not required	B.3		
CIS018963	CNE V York	Comparison Noise Emitter, 30 - 1000MHz	Cal not required	Cal not required	B.3		

Test Equipment used for RF Conducted Tests						
Equip No	Model Manufacturer	Description	Last Cal	Next Cal	Test Item	

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GIG050701	N9030A	DVA C: 1A 1	12 4 15	12 4 16	A1 thru A4
CIS050721	Keysight	PXA Signal Analyzer	13-Apr-15	13-Apr-16	14.4
	SF18-S1S1-36				A1 thru A4
CIS054662	MegaPhase	SMA 36" cable	24-Sep-15	24-Sep-16	
	F120-S1S1-48				A1 thru A4
CIS054663	MegaPhase	SMA 48" Cable	25-Sep-15	25-Sep-16	
	RA08-S1S1-24				A1 thru A4
CIS054665	MegaPhase	SMA 24" Cable	25-Sep-15	25-Sep-16	
	RA08-S1S1-18				A1 thru A4
CIS054666	MegaPhase	SMA 18" Cable	25-Sep-15	25-Sep-16	
	RA08-S1S1-18				A1 thru A4
CIS054667	MegaPhase	SMA 18" Cable	25-Sep-15	25-Sep-16	
	RA08-S1S1-18				A1 thru A4
CIS054668	MegaPhase	SMA 18" Cable	25-Sep-15	25-Sep-16	
	RA08-S1S1-18		•		A1 thru A4
CIS054669	MegaPhase	SMA 18" Cable	25-Sep-15	25-Sep-16	
	RA08-S1S1-12		•	•	A1 thru A4
CIS054670	MegaPhase	SMA 12" Cable	25-Sep-15	25-Sep-16	
	RA08-S1S1-12				A1 thru A4
CIS054671	MegaPhase	SMA 12" Cable	25-Sep-15	25-Sep-16	
	RA08-S1S1-12	20.000	== 2 op ==		A1 thru A4
CIS054672	MegaPhase	SMA 12" Cable	25-Sep-15	25-Sep-16	mann
C15054072	RA08-S1S1-12	SIMITE Capie	23 Sep 13	23 500 10	A1 thru A4
CIS054673	MegaPhase	SMA 12" Cable	25-Sep-15	25-Sep-16	711 till till till
C1505 1075	RA08-S1S1-12	SWITT 12 Cubic	25 Sep 15	23 Sep 10	A1 thru A4
CIS054674	MegaPhase	SMA 12" Cable	25-Sep-15	25-Sep-16	711 till til 714
C15054074	RA08-S1S1-12	SWITT 12 Cable	23-50р-13	25-5 <b>c</b> p-10	A1 thru A4
CIS054675	MegaPhase	SMA 12" Cable	25-Sep-15	25-Sep-16	AI tillu A <del>4</del>
C15054075	RA08-S1S1-12	SWITT 12 Cable	25-5 <b>c</b> p-15	25-5 <b>c</b> p-10	A1 thru A4
CIS054677	MegaPhase	SMA 12" Cable	25-Sep-15	25-Sep-16	AI uliu A4
C13034077	RA08-S1S1-12	SIVIA 12 Cable	23-3ep-13	23-3ep-10	A1 thru A4
CICO54679	MegaPhase	SMA 12" Cable	25-Sep-15	25 Can 16	A1 thru A4
CIS054678	NI PXI-2796	SIVIA 12 Cable	23-Sep-13	25-Sep-16	A1 thru A4
CICO54606		D1 - 1 1/-1 1 1-	6.0 4.15	6.0 4.16	A1 thru A4
CIS054686	National Instruments	Plug-in switch module	6-Oct-15	6-Oct-16	A 1 (1 A 4
CICOS 5004	PXI-1042	CI.	C 1 N + P : 1	CIN D : 1	A1 thru A4
CIS055094	National Instruments	Chassis	Cal Not Required	Cal Not Required	
GEG055115	RFLT2WDC40G	2 W 40 CH C 110	11.37 15	11.37 16	A1 thru A4
CIS055117	RF Lambda	2 Way 40GHz Splitter	11-Nov-15	11-Nov-16	
0700.554.66	RFLT4WDC40GK		22.17	22.37	A1 thru A4
CIS055166	RF Lambda	4 Way Power Divider 40GHz	23-Nov-15	23-Nov-16	
	BRC50705-02				A1 thru A4
CIS054656	Micro-Tronics	Band Reject Filter	24-Sep-15	24-Sep-16	
	BRC50704-02	Notch Filter, SB:5.470-5.725GHz, to			A1 thru A4
CIS054655	Micro-Tronics	12GHz	24-Sep-15	24-Sep-16	
	BRC50703-02	Notch Filter, SB:5.150-5.350GHz, to			A1 thru A4
CIS054654	Micro-Tronics	11GHz	24-Sep-15	24-Sep-16	
	BRM50702-02	Notch Filter, SB:2.400-2.500GHz, to			A1 thru A4
CIS054653	Micro-Tronics	18GHz	24-Sep-15	24-Sep-16	
CIS054637	BWS30-W2/ Aeroflex	SMA 30dB Attenuator	02-June-15	02-June-16	A1 thru A4
CIS054636	BWS20-W2/ Aeroflex	20dB SMA Attenuator	02-June-15	02-June-16	A1 thru A4



## Appendix E: 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	GHz	Gigahertz (1x10 <sup>9</sup> )
CISPR	International Special Committee on Radio Interference	Н	Horizontal
CDN	Coupling/Decoupling Network	V	Vertical
LISN	Line Impedance Stabilization	dB	decibel
	Network		
PE	Protective Earth	V	Volt
GND	Ground	kV	Kilovolt (1x10 <sup>3</sup> )
L1	Line 1	μV	Microvolt (1x10 <sup>-6</sup> )
L2	Line2	Α	Amp
L3	Line 3	μΑ	Micro Amp (1x10 <sup>-6</sup> )
DC	Direct Current	mS	Milli Second (1x10 <sup>-3</sup> )
RAW	Uncorrected measurement value,	μS	Micro Second (1x10 <sup>-6</sup> )
	as indicated by the measuring		
	device		
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)
Р	Power Line	L	Live Line
N	Neutral Line	R	Return
S	Supply	AC	Alternating Current

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# **End**