

Test Report

FCC ID: LDK102100 AIR-AP3802I-B-K9, AIR-AP3802I-UXK9 AIR-AP2802I-B-K9, AIR-AP2802I-UXK9

IC: 2461B-102100 AIR-AP3802I-A-K9, AIR-AP3802I-UXK9 AIR-AP2802I-A-K9, AIR-AP2802I-UXK9

Cisco Aironet 802.11ac Dual Band Access Points

5250-5350 MHz

Against the following Specifications:

CFR47 Part 15.407 RSS-247 RSS-Gen

Cisco Systems

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Tested By
Approved By: Jim Nicholson
Title: Technical Leader, Engineering
Revision: 3

This report replaces any previously entered test report under EDCS -1550804. This test report has been electronically authorized and archived using the CISCO Engineering Document Control system.

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APPENDIX E:



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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 - 1550804



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

10-Feb-2016 to 22-Feb-2016

2.3 Report Issue Date

29-Feb-2016

Cisco uses an electronic system to issue, store and control the revision of test reports. This system is called the Engineering Document Control System (EDCS). The actual report issue date is embedded into the original file on EDCS. Any copies of this report, either electronic or paper, that are not on EDCS must be considered uncontrolled.

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-AP3802I-B-K9

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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 HT/VHT20, One Antenna, 6 to 54 Mbps
802.11n/ac - Non HT/VHT20, Two Antennas, 6 to 54 Mbps
802.11n/ac - Non HT/VHT20, Three Antennas, 6 to 54 Mbps
802.11n/ac - Non HT/VHT20, Four Antennas, 6 to 54 Mbps
802.11n/ac - Non HT/VHT20 Beam Forming, Two Antennas, 6 to 54 Mbps
802.11n/ac - Non HT/VHT20 Beam Forming, Three Antennas, 6 to 54 Mbps
802.11n/ac - Non HT/VHT20 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 HT/VHT40 Duplicate, One Antenna, 6 to 54 Mbps
802.11n/ac - Non HT/VHT40 Duplicate, Two Antennas, 6 to 54 Mbps
802.11n/ac - Non HT/VHT40 Duplicate, Three Antennas, 6 to 54 Mbps
802.11n/ac - Non HT/VHT40 Duplicate, Four Antennas, 6 to 54 Mbps
802.11n/ac - HT/VHT40, One Antenna, M0 to M7
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
802.11n/ac - HT/VHT40 Beam Forming, Two Antennas, M0 to M7
802.11n/ac - HT/VHT40 Beam Forming, Two Antennas, M8 to M15
802.11n/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
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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 HT/VHT80 Duplicate, One Antenna, 6 to 54 Mbps
802.11n/ac - Non HT/VHT80 Duplicate, Two Antennas, 6 to 54 Mbps
802.11n/ac - Non HT/VHT80 Duplicate, Three Antennas, 6 to 54 Mbps
802.11n/ac - Non HT/VHT80 Duplicate, Four Antennas, 6 to 54 Mbps
802.11n/ac - HT/VHT80, One Antenna, M0 to M7
802.11n/ac - HT/VHT80. Two Antennas. M0 to M7
802.11n/ac - HT/VHT80, Two Antennas, M8 to M15
802.11n/ac - HT/VHT80, Three Antennas, M0 to M7
802.11n/ac - HT/VHT80, Three Antennas, M8 to M15
802.11n/ac - HT/VHT80, Three Antennas, M16 to M23
802.11n/ac - HT/VHT80, Four Antennas, M0 to M7
802.11n/ac - HT/VHT80, Four Antennas, M8 to M15
802.11n/ac - HT/VHT80, Four Antennas, M16 to M23
802.11n/ac - HT/VHT80 Beam Forming, Two Antennas, M0 to M7
802.11 \ n/ac - HT/VHT80 Beam Forming, Two Antennas, M8 to M15 802.11 \ n/ac - HT/VHT80 Beam Forming, Three Antennas, M0 to M7
802.11n/ac - HT/VHT80 Beam Forming, Three Antennas, M8 to M15 802.11n/ac - HT/VHT80 Beam Forming, Three Antennas, M16 to M23
802.11n/ac - HT/VHT80 Beam Forming, Four Antennas, M0 to M7
802.11n/ac - HT/VHT80 Beam Forming, Four Antennas, M8 to M15
802.11n/ac - HT/VHT80 Beam Forming, Four Antennas, M16 to M23
802.11n/ac - HT/VHT80 STBC, Two Antennas, M0 to M7
802.11n/ac - HT/VHT80 STBC, Three Antennas, M0 to M7
802.11n/ac - HT/VHT80 STBC, Four Antennas, M0 to M7
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
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.

Frequency Part Number		Antenna Type	Antenna Gain (dBi)
5 GHz	Internal	Directional (5G XOR)	6
2.4 / 5 GHz	Internal	Omni (2.4G XOR / 5G Dedicated)	4/5



Section 3: Result Summary

3.1 Results Summary Table

Conducted emissions

Basic Standard	Technical Requirements / Details	Result
PCC 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
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 dRm + 10 log R, where R is the 26 dR emission bandwidth in megabetz.		Pass
FCC 15.407 RSS-247		
FCC 15.407 RSS-247		
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	TX Spurious Emissions:	
FCC 15.209 FCC 15.205 RSS-Gen	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	Pass
	table in this section.	
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

^{*} 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-AP3802I-B-K9	Cisco Systems	01	ap1g4	8.3.1.51	FOC19448XL0 E
S02*	PWR-CUBE-B	Delta	341-1004 60-001	NA	NA	Engineering Sample

^(*) S02 are support equipment Power supplies for EUT S01

4.2 System Details

System #	Description	Samples
1	AIR-AP3802I-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

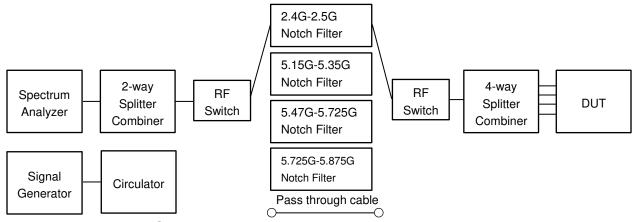
- ANSI C63.10:2013
- KDB 789033 D02 General UNII Test Procedures New Rules v01r01
- KDB 662911 D01 Multiple Transmitter Output v02r01

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Appendix A: Emission Test Results

Conducted Test Setup Diagram



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	11			
VHT160, M0 to M9, M0 to M9 1-0ss	17			
VHT160 Beam Forming, M0 to M9, M0 to M9 1-0ss	17			
VHT160 STBC, M0.1 to M9.1	17			
	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	20	21	21
HT/VHT20 STBC, M0 to M7	20	20	20	20
	5270	5310		
Non HT40, 6 to 54 Mbps	21	18		
HT/VHT40, M0 to M23, M0 to M9 1-0ss	23	18		
HT/VHT40 Beam Forming, M0 to M23, M0 to M9 1-0ss	22	18		
HT/VHT40 STBC, M0 to M7	22	18		
	5290			
Non HT80, 6 to 54 Mbps	17			
VHT80, M0 to M9, M0 to M9 1-0ss	18			
VHT80 Beam Forming, M0 to M9, M0 to M9 1-0ss	18			
VHT80 STBC, M0.1 to M9.1	18			

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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		\checkmark

Tested By :	Date of testing:
Jose Aguirre	10-Feb-2016 to 22-Feb-2016
Test Result : PASS	

See Appendix C for list of test equipment

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Frequency (MHz)	Mode	Data Rate (Mbps)	26dB BW (MHz)	99% BW (MHz)
5250	Non HT160, 6 to 54 Mbps	6	166.9	155.6
5250	VHT160, M0 to M9, M0 to M9 1-0ss	m0x1	164.0	155.3
5260	Non HT/VHT20, 6 to 54 Mbps	6	34.7	18.1
3200	HT/VHT20, M0 to M23, M0 to M9 1-0ss	m0	32.6	18.6
5270	Non HT/VHT40, 6 to 54 Mbps	6	76.7	45.6
3270	HT/VHT40, M0 to M23, M0 to M9 1-0ss	m0	64.1	37.1
		_		
5290	Non HT/VHT80, 6 to 54 Mbps	6	86.7	76.6
3290	HT/VHT80, M0 to M23, M0 to M9 1-0ss	m0x1	83.5	76.6
5280	Non HT/VHT20, 6 to 54 Mbps	6	29.1	18.2
3280	HT/VHT20, M0 to M23, M0 to M9 1-0ss	m0	32.5	18.6
5300	Non HT/VHT20, 6 to 54 Mbps	6	32.8	18.2
3300	HT/VHT20, M0 to M23, M0 to M9 1-0ss	m0	34	18.6
		_	_	_
5310	Non HT/VHT40, 6 to 54 Mbps	6	60.4	37.0
2210	HT/VHT40, M0 to M23, M0 to M9 1-0ss	m0	43.6	36.6
5320	Non HT/VHT20, 6 to 54 Mbps	6	33.8	18.3
3320	HT/VHT20, M0 to M23, M0 to M9 1-0ss	m0	37.2	18.9







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, HT/VHT80, M0 to M23, M0 to M9 1-0ss



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



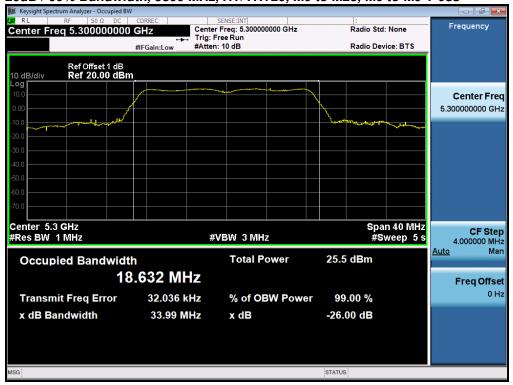
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26dB / 99% Bandwidth, 5300 MHz, HT/VHT20, M0 to M23, M0 to M9 1-0ss



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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

7 (140) 000:10: 2010 300(i0) 12:0:2:2 Wethod 07(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	∇	
1	Support	S02		\checkmark

Tested By :	Date of testing:
Jose Aguirre	10-Feb-2016 to 22-Feb-2016
Test Result : PASS	

See Appendix C for list of test equipment

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Radio Test Report No: EDCS - 1550804



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	10.0				10.0	24.0	14.0
	Non HT160, 6 to 54 Mbps	2	6	6.1	6.3			9.2	24.0	14.8
	Non HT160, 6 to 54 Mbps	3	6	5.2	5.5	5.2		10.1	24.0	13.9
	Non HT160, 6 to 54 Mbps	4	6	5.2	5.5	5.2	5.1	11.3	24.0	12.7
	VHT160, M0.1 to M9.1	1	6	13.5				13.5	24.0	10.5
	VHT160, M0.1 to M9.1	2	6	12.6	12.9			15.8	24.0	8.2
	VHT160, M0.2 to M9.2	2	6	12.6	12.9			15.8	24.0	8.2
	VHT160, M0.1 to M9.1	3	6	11.6	11.9	11.6		16.5	24.0	7.5
	VHT160, M0.2 to M9.2	3	6	11.6	11.9	11.6		16.5	24.0	7.5
	VHT160, M0.3 to M9.3	3	6	11.6	11.9	11.6		16.5	24.0	7.5
	VHT160, M0.1 to M9.1	4	6	10.7	11.1	10.8	10.7	16.8	24.0	7.2
5250	VHT160, M0.2 to M9.2	4	6	10.7	11.1	10.8	10.7	16.8	24.0	7.2
52	VHT160, M0.3 to M9.3	4	6	10.7	11.1	10.8	10.7	16.8	24.0	7.2
	VHT160 Beam Forming, M0.1 to M9.1	2	6	12.6	12.9			15.8	24.0	8.2
	VHT160 Beam Forming, M0.2 to M9.2	2	6	12.6	12.9			15.8	24.0	8.2
	VHT160 Beam Forming, M0.1 to M9.1	3	6	11.6	11.9	11.6		16.5	24.0	7.5
	VHT160 Beam Forming, M0.2 to M9.2	3	6	11.6	11.9	11.6		16.5	24.0	7.5
	VHT160 Beam Forming, M0.3 to M9.3	3	6	11.6	11.9	11.6		16.5	24.0	7.5
	VHT160 Beam Forming, M0.1 to M9.1	4	6	10.7	11.1	10.8	10.7	16.8	24.0	7.2
	VHT160 Beam Forming, M0.2 to M9.2	4	6	10.7	11.1	10.8	10.7	16.8	24.0	7.2
	VHT160 Beam Forming, M0.3 to M9.3	4	6	10.7	11.1	10.8	10.7	16.8	24.0	7.2
	VHT160 STBC, M0.1 to M9.1	2	6	12.6	12.9			15.8	24.0	8.2
	VHT160 STBC, M0.1 to M9.1	3	6	11.6	11.9	11.6		16.5	24.0	7.5
	VHT160 STBC, M0.1 to M9.1	4	6	10.7	11.1	10.8	10.7	16.8	24.0	7.2
	Non HT20, 6 to 54 Mbps	1	6	17.5				17.5	23.6	6.1
	Non HT20, 6 to 54 Mbps	2	6	15.3	14.0			17.7	23.6	5.9
	Non HT20, 6 to 54 Mbps	3	6	11.9	10.9	12.0		16.4	23.5	7.1
	Non HT20, 6 to 54 Mbps	4	6	8.7	7.9	9.0	8.4	14.5	23.5	9.0
5260	Non HT20 Beam Forming, 6 to 54 Mbps	2	9	15.3	14.0			17.7	20.6	2.9
5	Non HT20 Beam Forming, 6 to 54 Mbps	3	11	11.9	10.9	12.0		16.4	18.7	2.3
	Non HT20 Beam Forming, 6 to 54 Mbps	4	12	8.7	7.9	9.0	8.4	14.5	17.5	3.0
	HT/VHT20, M0 to M7	1	6	17.6				17.6	23.7	6.1
	HT/VHT20, M0 to M7	2	6	15.4	14.1			17.8	23.6	5.8

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	HT/VHT20, M8 to M15	2	6	17.6	16.2			20.0	23.7	3.7
	HT/VHT20, M0 to M7	3	6	11.9	11.0	12.1		16.5	23.6	7.1
	HT/VHT20, M8 to M15	3	6	15.4	14.1	15.3		19.7	23.6	3.9
	HT/VHT20, M16 to M23	3	6	16.5	15.2	16.5		20.9	23.6	2.7
	HT/VHT20, M0 to M7	4	6	8.8	8.0	9.1	8.5	14.6	23.6	9.0
	HT/VHT20, M8 to M15	4	6	13.0	12.0	13.0	12.5	18.7	23.6	4.9
	HT/VHT20, M16 to M23	4	6	14.0	12.9	14.0	13.4	19.6	23.6	4.0
	HT/VHT20 Beam Forming, M0 to M7	2	9	15.4	14.1			17.8	20.6	2.8
	HT/VHT20 Beam Forming, M8 to M15	2	6	17.6	16.2			20.0	23.7	3.7
	HT/VHT20 Beam Forming, M0 to M7	3	11	11.9	11.0	12.1		16.5	18.8	2.3
	HT/VHT20 Beam Forming, M8 to M15	3	8	15.4	14.1	15.3		19.7	21.8	2.1
	HT/VHT20 Beam Forming, M16 to M23	3	6	16.5	15.2	16.5		20.9	23.6	2.7
	HT/VHT20 Beam Forming, M0 to M7	4	12	8.8	8.0	9.1	8.5	14.6	17.6	3.0
	HT/VHT20 Beam Forming, M8 to M15	4	9	13.0	12.0	13.0	12.5	18.7	20.6	1.9
	HT/VHT20 Beam Forming, M16 to M23	4	7	14.0	12.9	14.0	13.4	19.6	22.4	2.8
	HT/VHT20 STBC, M0 to M7	2	6	17.6	16.2			20.0	23.7	3.7
	HT/VHT20 STBC, M0 to M7	3	6	15.4	14.1	15.3		19.7	23.6	3.9
	HT/VHT20 STBC, M0 to M7	4	6	13.0	12.0	13.0	12.5	18.7	23.6	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	17.2			20.9	24.0	3.1
	Non HT40, 6 to 54 Mbps	3	6	13.8	13.0	13.9		18.4	24.0	5.6
	Non HT40, 6 to 54 Mbps	4	6	12.1	11.3	12.2	11.4	17.8	24.0	6.2
	HT/VHT40, M0 to M7	1	6	17.5				17.5	24.0	6.5
	HT/VHT40, M0 to M7	2	6	17.5	16.1			19.9	24.0	4.1
	HT/VHT40, M8 to M15	2	6	17.5	16.1			19.9	24.0	4.1
	HT/VHT40, M0 to M7	3	6	15.0	13.8	15.5		19.6	24.0	4.4
	HT/VHT40, M8 to M15	3	6	17.5	16.1	17.8		22.0	24.0	2.0
	HT/VHT40, M16 to M23	3	6	17.5	16.1	17.8		22.0	24.0	2.0
5270	HT/VHT40, M0 to M7	4	6	12.5	11.5	13.2	11.7	18.3	24.0	5.7
52	HT/VHT40, M8 to M15	4	6	15.0	13.8	15.5	14.1	20.7	24.0	3.3
	HT/VHT40, M16 to M23	4	6	17.5	16.1	17.8	16.5	23.1	24.0	0.9
	HT/VHT40 Beam Forming, M0 to M7	2	9	17.5	16.1			19.9	21.0	1.1
	HT/VHT40 Beam Forming, M8 to M15	2	6	17.5	16.1			19.9	24.0	4.1
	HT/VHT40 Beam Forming, M0 to M7	3	11	13.5	12.5	14.1		18.2	19.2	1.0
	HT/VHT40 Beam Forming, M8 to M15	3	8	17.5	16.1	17.8		22.0	22.2	0.2
	HT/VHT40 Beam Forming, M16 to M23	3	6	17.5	16.1	17.8		22.0	24.0	2.0
	HT/VHT40 Beam Forming, M0 to M7	4	12	11.6	10.6	12.2	10.8	17.4	18.0	0.6
	HT/VHT40 Beam Forming, M8 to M15	4	9	15.0	13.8	15.5	14.1	20.7	21.0	0.3
	HT/VHT40 Beam Forming, M16 to M23	4	7	16.3	15.0	16.6	15.3	21.9	22.8	0.9
	HT/VHT40 STBC, M0 to M7	2	6	17.5	16.1			19.9	24.0	4.1

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HT/VHT40 STBC, M0 to M7											
Non HT80, 6 to 54 Mbps		HT/VHT40 STBC, M0 to M7	3	6	17.5	16.1	17.8		22.0	24.0	2.0
Non HT80, 6 to 54 Mbps		HT/VHT40 STBC, M0 to M7	4	6	15.0	13.8	15.5	14.1	20.7	24.0	3.3
Non HT80, 6 to 54 Mbps											
Non HT80, 6 to 54 Mbps 3		Non HT80, 6 to 54 Mbps	1	6	13.0				13.0	24.0	11.0
Non HT80, 6 to 54 Mbps			2	6		12.9			16.0	24.0	8.0
Non HT80, 6 to 54 Mbps		·	3	6		11.8	11.9		_	24.0	7.4
VHT80, M0.1 to M9.1			4	6	_	10.9	10.9	10.5	16.8	24.0	
VHT80, M0.1 to M9.1			1	6	14.9				14.9	24.0	9.1
VHT80, M0.2 to M9.2			2	6	13.5	13.2			16.4	24.0	7.6
VHT80, M0.1 to M9.1 VHT80, M0.2 to M9.2 VHT80, M0.3 to M9.3 3 6 12.5 12.3 12.8 17.3 24.0 6.7 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 4 6 12.5 12.3 12.8 17.3 24.0 6.7 VHT80, M0.3 to M9.3 VHT80, M0.3 to M9.1 1.1 17.6 24.0 6.4 VHT80, M0.3 to M9.2 4 6 11.7 11.4 11.9 11.1 17.6 24.0 6.4 VHT80, M0.3 to M9.3 4 6 11.7 11.4 11.9 11.1 17.6 24.0 6.4 VHT80 Beam Forming, M0.1 to M9.1 VHT80 Beam Forming, M0.1 to M9.1 VHT80 Beam Forming, M0.1 to M9.1 3 6 12.5 12.3 12.8 17.3 24.0 6.7 VHT80 Beam Forming, M0.1 to M9.1 3 6 12.5 12.3 12.8 17.3 24.0 6.7 VHT80 Beam Forming, M0.3 to M9.3 3 6 12.5 12.3 12.8 17.3 24.0 6.7 VHT80 Beam Forming, M0.3 to M9.3 3 6 12.5 12.3 12.8 17.3 24.0 6.7 VHT80 Beam Forming, M0.3 to M9.3 3 6 12.5 12.3 12.8 17.3 24.0 6.7 VHT80 Beam Forming, M0.3 to M9.3 4 6 11.7 11.4 11.9 11.1 17.6 24.0 6.4 VHT80 Beam Forming, M0.3 to M9.3 4 6 11.7 11.4 11.9 11.1 17.6 24.0 6.4 VHT80 Beam Forming, M0.3 to M9.3 4 6 11.7 11.4 11.9 11.1 17.6 24.0 6.4 VHT80 STBC, M0.1 to M9.1 2 6 13.5 13.2 VHT80 STBC, M0.1 to M9.1 3 6 12.5 12.3 12.8 17.3 24.0 6.7 VHT80 STBC, M0.1 to M9.1 4 6 11.7 11.4 11.9 11.1 17.6 24.0 6.4 VHT80 STBC, M0.1 to M9.1 3 6 12.5 12.3 12.8 17.3 24.0 6.7 VHT80 STBC, M0.1 to M9.1 3 6 12.5 12.3 12.8 17.3 24.0 6.7 VHT80 STBC, M0.1 to M9.1 4 6 11.7 11.4 11.9 11.1 17.6 24.0 6.4 VHT80 STBC, M0.1 to M9.1 3 6 12.5 12.3 12.8 17.3 22.0 6.7 VHT80 STBC, M0.1 to M9.1 4 6 11.7 11.4 11.9 11.1 17.6 24.0 6.4 VHT80 STBC, M0.1 to M9.1 3 6 12.5 12.3 12.8 17.3 22.5 6.4 VHT80 STBC, M0.1 to M9.1 3 6 12.5 12.3 12.8 17.3 22.8 17.3 22.0 6.7 VHT80 STBC, M0.1 to M9.1 3 6 12.5 12.3 12.8 17.3 22.8 17.3 22.0 6.7 VHT80 STBC, M0.1 to M9.1 3 6 12.5 12.3 12.8 11.1 11.1 17.6 24.0 6.4 VHT80 STBC, M0.1 to M9.1 3 6 12.5 12.3 12.8 17.3 22.8 17.3 22.0 6.7 VHT80 STBC, M0.1 to M9.1 3 6 12.5 12.3 12.8 12.8 17.3 22.0 6.7 VHT80 STBC, M0.1 to M9.1 4 6 11.7 11.4 11.9 11.1 17.6 24.0 6.4 VHT80 STBC, M0.1 to M0.1 1 11.1 17.6 24.0 6.4 VHT80 STBC			2	6		13.2			16.4	24.0	7.6
NHT80, M0.2 to M9.2 3			_	6		_	12.8		_		
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, M0.2 to M9.2 VHT80, M0.3 to M9.3 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, M0.3 to M9.3 VHT80 Beam Forming, M0.1 to M9.1 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, M0.1 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, M0.3 to M9.3 VHT80 STBC, M0.1 to M9.1 V			3	6		1	12.8		17.3	24.0	6.7
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 Beam Forming, M0.2 to M9.2 VHT80 Beam Forming, M0.1 to M9.1 VHT80 Beam Forming, M0.3 to M9.3 3 6 12.5 12.3 12.8 VHT80 Beam Forming, M0.3 to M9.3 3 6 12.5 12.3 12.8 VHT80 Beam Forming, M0.3 to M9.3 3 6 12.5 12.3 12.8 VHT80 Beam Forming, M0.3 to M9.3 3 6 12.5 12.3 12.8 VHT80 Beam Forming, M0.3 to M9.3 VHT80 Beam Forming, M0.3 to M9.3 4 6 11.7 11.4 11.9 11.1 17.6 24.0 6.7 VHT80 Beam Forming, M0.3 to M9.3 4 6 11.7 11.4 11.9 11.1 17.6 24.0 6.7 VHT80 Beam Forming, M0.3 to M9.3 4 6 11.7 11.4 11.9 11.1 17.6 24.0 6.4 VHT80 SEAM Forming, M0.3 to M9.3 4 6 11.7 11.4 11.9 11.1 17.6 24.0 6.4 VHT80 STBC, M0.1 to M9.1 VHT80 STBC, M0.1 to M0.1 VHT80										1	
NHT80, M0.2 to M9.2				6		_	1	11.1	_		
VHT80, M0.3 to M9.3	90	·			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, M0.1 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 3 6 12.5 12.3 12.8 17.3 24.0 6.7 VHT80 Beam Forming, M0.3 to M9.3 3 6 12.5 12.3 12.8 17.3 24.0 6.7 VHT80 Beam Forming, M0.3 to M9.3 3 6 12.5 12.3 12.8 17.3 24.0 6.7 VHT80 Beam Forming, M0.2 to M9.2 4 6 11.7 11.4 11.9 11.1 17.6 24.0 6.4 VHT80 Beam Forming, M0.3 to M9.3 4 6 11.7 11.4 11.9 11.1 17.6 24.0 6.4 VHT80 STBC, M0.1 to M9.1 2 6 13.5 13.2 16.4 24.0 7.6 VHT80 STBC, M0.1 to M9.1 3 6 12.5 12.3 12.8 17.3 24.0 6.7 VHT80 STBC, M0.1 to M9.1 3 6 12.5 12.3 12.8 17.3 24.0 6.7 VHT80 STBC, M0.1 to M9.1 3 6 12.5 12.3 12.8 17.3 24.0 6.7 VHT80 STBC, M0.1 to M9.1 3 6 12.5 12.3 12.8 17.3 24.0 6.7 VHT80 STBC, M0.1 to M9.1 3 6 12.5 12.3 12.8 17.3 24.0 6.7 VHT80 STBC, M0.1 to M9.1 3 6 12.5 12.3 12.8 17.3 24.0 6.7 VHT80 STBC, M0.1 to M9.1 3 6 12.5 12.3 12.8 17.3 24.0 6.7 VHT80 STBC, M0.1 to M9.1 3 6 12.5 12.3 12.8 17.3 24.0 6.7 VHT80 STBC, M0.1 to M9.1 4 6 11.7 11.4 11.9 11.1 17.6 24.0 6.4 NON HT20, 6 to 54 Mbps 1 6 17.2 12.3 12.8 17.3 24.0 6.7 VHT80 STBC, M0.1 to M9.1 1 7.6 24.0 6.4 NON HT20, 6 to 54 Mbps 2 6 14.9 14.3 11.7 16.2 23.5 7.3 NON HT20, 6 to 54 Mbps 3 6 11.4 11.3 11.7 16.2 23.5 7.3 NON HT20, 6 to 54 Mbps 4 6 8.3 8.3 8.7 7.9 14.3 23.5 9.2 NON HT20 Beam Forming, 6 to 54 Mbps 3 11 11.4 11.3 11.7 16.2 23.5 9.2 NON HT20 Beam Forming, 6 to 54 Mbps 4 12 8.3 8.3 8.7 7.9 14.3 23.5 9.2 NON HT20 Beam Forming, 6 to 54 Mbps 4 12 8.3 8.3 8.7 7.9 14.3 17.5 3.2 HT/VHT20, M0 to M7 1 6 17.3 11.4 11.3 11.7 16.2 23.6 6.4 HT/VHT20, M0 to M7 1 6 17.3 11.4 11.3 11.7 16.2 23.6 6.4 HT/VHT20, M0 to M7 1 6 17.3 11.4 11.3 11.9 16.4 23.6 7.2 HT/VHT20, M0 to M7 1 6 15.5 11.3 11.9 16.4 23.6 7.2 HT/VHT20, M0 to M7 1 6 15.5 14.3 15.2 19.6 23.6 4.0	529	·		6			1	_	_		
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	HT/VHT20, M0 to M7	4	6	9.6	9.5	10.1	9.2	15.6	23.6	8.0
	HT/VHT20, M8 to M15	4	6	12.6	12.3	12.8	11.9	18.4	23.6	5.2
	HT/VHT20, M16 to M23	4	6	14.9	14.3	15.0	14.0	20.6	23.6	3.0
'	HT/VHT20 Beam Forming, M0 to M7	2	9	15.0	14.3			17.7	20.6	2.9
	HT/VHT20 Beam Forming, M8 to M15	2	6	16.2	15.5			18.9	23.6	4.7
	HT/VHT20 Beam Forming, M0 to M7	3	11	11.6	11.3	11.9		16.4	18.8	2.4
	HT/VHT20 Beam Forming, M8 to M15	3	8	14.9	14.3	15.0		19.5	21.8	2.3
/	HT/VHT20 Beam Forming, M16 to M23	3	6	15.0	14.3	15.2		19.6	23.6	4.0
	HT/VHT20 Beam Forming, M0 to M7	4	12	9.6	9.5	10.1	9.2	15.6	17.6	2.0
	HT/VHT20 Beam Forming, M8 to M15	4	9	12.6	12.3	12.8	11.9	18.4	20.6	2.2
	HT/VHT20 Beam Forming, M16 to M23	4	7	13.6	13.2	13.7	12.9	19.4	22.4	3.0
	HT/VHT20 STBC, M0 to M7	2	6	16.2	15.5			18.9	23.6	4.7
	HT/VHT20 STBC, M0 to M7	3	6	15.0	14.3	15.2		19.6	23.6	4.0
	HT/VHT20 STBC, M0 to M7	4	6	12.6	12.3	12.8	11.9	18.4	23.6	5.2
	Non HT20, 6 to 54 Mbps	1	6	16.9				16.9	23.6	6.7
	Non HT20, 6 to 54 Mbps	2	6	14.7	15.0			17.9	23.5	5.6
	Non HT20, 6 to 54 Mbps	3	6	11.4	12.0	11.4		16.4	23.5	7.1
	Non HT20, 6 to 54 Mbps	4	6	8.2	9.1	8.3	8.0	14.4	23.5	9.1
	Non HT20 Beam Forming, 6 to 54 Mbps	2	9	14.7	15.0			17.9	20.5	2.6
	Non HT20 Beam Forming, 6 to 54 Mbps	3	11	11.4	12.0	11.4		16.4	18.7	2.3
	Non HT20 Beam Forming, 6 to 54 Mbps	4	12	8.2	9.1	8.3	8.0	14.4	17.5	3.1
	HT/VHT20, M0 to M7	1	6	17.1				17.1	23.7	6.6
	HT/VHT20, M0 to M7	2	6	14.9	15.1			18.0	23.6	5.6
	HT/VHT20, M8 to M15	2	6	17.1	17.3			20.2	23.7	3.5
	HT/VHT20, M0 to M7	3	6	11.6	12.1	11.6		16.5	23.6	7.1
	HT/VHT20, M8 to M15	3	6	14.9	15.1	14.8		19.7	23.6	3.9
00	HT/VHT20, M16 to M23	3	6	16.0	16.3	16.0		20.9	23.6	2.7
5300	HT/VHT20, M0 to M7	4	6	9.6	10.3	9.7	9.3	15.8	23.6	7.8
	HT/VHT20, M8 to M15	4	6	12.5	13.1	12.4	12.0	18.5	23.6	5.1
	HT/VHT20, M16 to M23	4	6	13.5	14.0	13.5	12.9	19.5	23.6	4.1
	HT/VHT20 Beam Forming, M0 to M7	2	9	14.9	15.1			18.0	20.6	2.6
	HT/VHT20 Beam Forming, M8 to M15	2	6	17.1	17.3			20.2	23.7	3.5
	HT/VHT20 Beam Forming, M0 to M7	3	11	11.6	12.1	11.6		16.5	18.8	2.3
	HT/VHT20 Beam Forming, M8 to M15	3	8	14.9	15.1	14.8		19.7	21.8	2.1
	HT/VHT20 Beam Forming, M16 to M23	3	6	16.0	16.3	16.0		20.9	23.6	2.7
	HT/VHT20 Beam Forming, M0 to M7	4	12	9.6	10.3	9.7	9.3	15.8	17.6	1.8
	HT/VHT20 Beam Forming, M8 to M15	4	9	12.5	13.1	12.4	12.0	18.5	20.6	2.1
	HT/VHT20 Beam Forming, M16 to M23	4	7	13.5	14.0	13.5	12.9	19.5	22.4	2.9
	HT/VHT20 STBC, M0 to M7	2	6	17.1	17.3			20.2	23.7	3.5
	HT/VHT20 STBC, M0 to M7	3	6	14.9	15.1	14.8		19.7	23.6	3.9



	HT/VHT20 STBC, M0 to M7	4	6	12.5	13.1	12.4	12.0	18.5	23.6	5.1
_			_	_	_			_	_	_
	Non HT40, 6 to 54 Mbps	1	6	13.4				13.4	24.0	10.6
	Non HT40, 6 to 54 Mbps	2	6	12.5	13.2			15.9	24.0	8.1
	Non HT40, 6 to 54 Mbps	3	6	12.5	13.2	12.5		17.5	24.0	6.5
	Non HT40, 6 to 54 Mbps	4	6	11.7	12.4	11.7	11.4	17.8	24.0	6.2
	HT/VHT40, M0 to M7	1	6	15.3				15.3	24.0	8.7
	HT/VHT40, M0 to M7	2	6	13.8	14.2			17.0	24.0	7.0
	HT/VHT40, M8 to M15	2	6	13.8	14.2			17.0	24.0	7.0
	HT/VHT40, M0 to M7	3	6	12.8	13.3	12.5		17.7	24.0	6.3
	HT/VHT40, M8 to M15	3	6	12.8	13.3	12.5		17.7	24.0	6.3
	HT/VHT40, M16 to M23	3	6	12.8	13.3	12.5		17.7	24.0	6.3
	HT/VHT40, M0 to M7	4	6	11.9	12.4	11.6	11.5	17.9	24.0	6.1
10	HT/VHT40, M8 to M15	4	6	11.9	12.4	11.6	11.5	17.9	24.0	6.1
5310	HT/VHT40, M16 to M23	4	6	11.9	12.4	11.6	11.5	17.9	24.0	6.1
	HT/VHT40 Beam Forming, M0 to M7	2	9	12.8	13.3			16.1	21.0	4.9
	HT/VHT40 Beam Forming, M8 to M15	2	6	13.8	14.2			17.0	24.0	7.0
	HT/VHT40 Beam Forming, M0 to M7	3	11	9.8	9.3	8.5		14.0	19.2	5.2
	HT/VHT40 Beam Forming, M8 to M15	3	8	11.9	12.4	11.6		16.8	22.2	5.4
	HT/VHT40 Beam Forming, M16 to M23	3	6	12.8	13.3	12.5		17.7	24.0	6.3
	HT/VHT40 Beam Forming, M0 to M7	4	12	7.8	8.4	7.4	7.3	13.8	18.0	4.2
	HT/VHT40 Beam Forming, M8 to M15	4	9	10.0	10.5	9.7	9.6	16.0	21.0	5.0
	HT/VHT40 Beam Forming, M16 to M23	4	7	11.0	11.4	10.6	10.5	16.9	22.8	5.9
	HT/VHT40 STBC, M0 to M7	2	6	13.8	14.2			17.0	24.0	7.0
	HT/VHT40 STBC, M0 to M7	3	6	12.8	13.3	12.5		17.7	24.0	6.3
	HT/VHT40 STBC, M0 to M7	4	6	11.9	12.4	11.6	11.5	17.9	24.0	6.1
•										
	Non HT20, 6 to 54 Mbps	1	6	16.9				16.9	23.6	6.7
	Non HT20, 6 to 54 Mbps	2	6	14.7	15.5			18.1	23.5	5.4
	Non HT20, 6 to 54 Mbps	3	6	11.3	12.3	11.5		16.5	23.5	7.0
	Non HT20, 6 to 54 Mbps	4	6	8.3	9.3	8.5	8.6	14.7	23.5	8.8
	Non HT20 Beam Forming, 6 to 54 Mbps	2	9	14.7	15.5			18.1	20.5	2.4
	Non HT20 Beam Forming, 6 to 54 Mbps	3	11	11.3	12.3	11.5		16.5	18.7	2.2
20	Non HT20 Beam Forming, 6 to 54 Mbps	4	12	8.3	9.3	8.5	8.6	14.7	17.5	2.8
5320	HT/VHT20, M0 to M7	1	6	17.0				17.0	23.8	6.8
	HT/VHT20, M0 to M7	2	6	14.8	15.6			18.2	23.6	5.4
	HT/VHT20, M8 to M15	2	6	15.9	16.7			19.3	23.6	4.3
	HT/VHT20, M0 to M7	3	6	11.6	12.6	11.6		16.7	23.6	6.9
	HT/VHT20, M8 to M15	3	6	14.8	15.6	14.8		19.9	23.6	3.7
	HT/VHT20, M16 to M23	3	6	15.9	16.7	15.9		21.0	23.6	2.6
	HT/VHT20, M0 to M7	_								

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HT/VHT20, M8 to M15	4	6	11.6	12.6	11.6	11.7	17.9	23.6	5.7
HT/VHT20, M16 to M23	4	6	13.5	14.4	13.4	13.5	19.7	23.6	3.9
HT/VHT20 Beam Forming, M0 to M7	2	9	14.8	15.6			18.2	20.6	2.4
HT/VHT20 Beam Forming, M8 to M15	2	6	15.9	16.7			19.3	23.6	4.3
HT/VHT20 Beam Forming, M0 to M7	3	11	11.6	12.6	11.6		16.7	18.8	2.1
HT/VHT20 Beam Forming, M8 to M15	3	8	14.8	15.6	14.8		19.9	21.8	1.9
HT/VHT20 Beam Forming, M16 to M23	3	6	15.9	16.7	15.9		21.0	23.6	2.6
HT/VHT20 Beam Forming, M0 to M7	4	12	8.4	9.6	8.6	8.8	14.9	17.6	2.7
HT/VHT20 Beam Forming, M8 to M15	4	9	11.6	12.6	11.6	11.7	17.9	20.6	2.7
HT/VHT20 Beam Forming, M16 to M23	4	7	13.5	14.4	13.4	13.5	19.7	22.4	2.7
HT/VHT20 STBC, M0 to M7	2	6	15.9	16.7			19.3	23.6	4.3
HT/VHT20 STBC, M0 to M7	3	6	14.8	15.6	14.8		19.9	23.6	3.7
HT/VHT20 STBC, M0 to M7	4	6	11.6	12.6	11.6	11.7	17.9	23.6	5.7

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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	-9.7				-9.7	11.0	20.7
	Non HT160, 6 to 54 Mbps	2	9	-13.7	-13.1			-10.4	8.0	18.4
	Non HT160, 6 to 54 Mbps	3	11	-14.5	-13.8	-14.6		-9.5	6.0	15.5
	Non HT160, 6 to 54 Mbps	4	12	-14.5	-13.8	-14.6	-14.1	-8.2	5.0	13.2
	VHT160, M0 to M9 1ss	1	6	-6.4				-6.4	11.0	17.4
	VHT160, M0 to M9 1ss	2	9	-7.3	-6.5			-3.9	8.0	11.9
	VHT160, M0 to M9 2ss	2	6	-7.3	-6.5			-3.9	11.0	14.9
	VHT160, M0 to M9 1ss	3	11	-8.3	-7.5	-8.3		-3.2	6.0	9.2
	VHT160, M0 to M9 2ss	3	8	-8.3	-7.5	-8.3		-3.2	9.0	12.2
	VHT160, M0 to M9 3ss	3	6	-8.3	-7.5	-8.3		-3.2	11.0	14.2
	VHT160, M0 to M9 1ss	4	12	-9.3	-8.6	-8.8	-8.4	-2.7	5.0	7.7
20	VHT160, M0 to M9 2ss	4	9	-9.3	-8.6	-8.8	-8.4	-2.7	8.0	10.7
5250	VHT160, M0 to M9 3ss	4	7	-9.3	-8.6	-8.8	-8.4	-2.7	10.0	12.7
	VHT160 Beam Forming, M0 to M9 1ss	2	9	-9.3	-8.6			-5.9	8.0	13.9
	VHT160 Beam Forming, M0 to M9 2ss	2	6	-7.3	-6.5			-3.9	11.0	14.9
	VHT160 Beam Forming, M0 to M9 1ss	3	11	-12.4	-11.6	-12.5		-7.4	6.0	13.4
	VHT160 Beam Forming, M0 to M9 2ss	3	8	-10.4	-9.3	-10.4		-5.2	9.0	14.2
	VHT160 Beam Forming, M0 to M9 3ss	3	6	-8.3	-7.5	-8.3		-3.2	11.0	14.2
	VHT160 Beam Forming, M0 to M9 1ss	4	12	-13.3	-12.7	-13.6	-12.7	-7.0	5.0	12.0
	VHT160 Beam Forming, M0 to M9 2ss	4	9	-11.3	-10.5	-11.5	-10.4	-4.9	8.0	12.9
	VHT160 Beam Forming, M0 to M9 3ss	4	7	-10.4	-9.3	-10.4	-9.4	-3.8	10.0	13.8
	VHT160 STBC, M0 to M9 1ss	2	6	-7.3	-6.5			-3.9	11.0	14.9
	VHT160 STBC, M0 to M9 1ss	3	6	-8.3	-7.5	-8.3		-3.2	11.0	14.2
	VHT160 STBC, M0 to M9 1ss	4	6	-9.3	-8.6	-8.8	-8.4	-2.7	11.0	13.7
	Non HT20, 6 to 54 Mbps	1	6	7.2				7.2	11.0	3.8
	Non HT20, 6 to 54 Mbps	2	9	4.5	3.5			7.0	8.0	1.0
	Non HT20, 6 to 54 Mbps	3	11	1.3	0.5	1.6		5.9	6.0	0.1
C	Non HT20, 6 to 54 Mbps	4	12	-2.0	-2.6	-1.5	-2.1	4.0	5.0	1.0
5260	Non HT20 Beam Forming, 6 to 54 Mbps	2	9	4.5	3.5			7.0	8.0	1.0
u)	Non HT20 Beam Forming, 6 to 54 Mbps	3	11	1.3	0.5	1.6		5.9	6.0	0.1
	Non HT20 Beam Forming, 6 to 54 Mbps	4	12	-2.0	-2.6	-1.5	-2.1	4.0	5.0	1.0
	HT/VHT20, M0 to M7	1	6	7.1				7.1	11.0	3.9
	HT/VHT20, M0 to M7	2	9	4.8	3.4			7.2	8.0	0.8

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	HT/VHT20, M8 to M15	2	6	7.1	5.2			9.3	11.0	1.7
	HT/VHT20, M0 to M7	3	11	1.2	0.2	1.4		5.7	6.0	0.3
	HT/VHT20, M8 to M15	3	8	4.3	3.4	4.5		8.9	9.0	0.1
	HT/VHT20, M16 to M23	3	6	5.8	4.3	5.6		10.1	11.0	0.9
	HT/VHT20, M0 to M7	4	12	-0.7	-1.6	-0.7	-1.2	5.0	5.0	0.0
	HT/VHT20, M8 to M15	4	9	1.9	1.3	2.2	2.0	7.9	8.0	0.1
	HT/VHT20, M16 to M23	4	7	3.3	2.0	3.2	2.7	8.9	10.0	1.1
	HT/VHT20 Beam Forming, M0 to M7	2	9	4.8	3.4			7.2	8.0	0.8
	HT/VHT20 Beam Forming, M8 to M15	2	6	7.1	5.2			9.3	11.0	1.7
	HT/VHT20 Beam Forming, M0 to M7	3	11	1.2	0.2	1.4		5.7	6.0	0.3
	HT/VHT20 Beam Forming, M8 to M15	3	8	4.3	3.4	4.5		8.9	9.0	0.1
	HT/VHT20 Beam Forming, M16 to M23	3	6	5.8	4.3	5.6		10.1	11.0	0.9
	HT/VHT20 Beam Forming, M0 to M7	4	12	-0.7	-1.6	-0.7	-1.2	5.0	5.0	0.0
	HT/VHT20 Beam Forming, M8 to M15	4	9	1.9	1.3	2.2	2.0	7.9	8.0	0.1
	HT/VHT20 Beam Forming, M16 to M23	4	7	3.3	2.0	3.2	2.7	8.9	10.0	1.1
	HT/VHT20 STBC, M0 to M7	2	6	7.1	5.2			9.3	11.0	1.7
	HT/VHT20 STBC, M0 to M7	3	8	4.3	3.4	4.5		8.9	9.0	0.1
	HT/VHT20 STBC, M0 to M7	4	9	1.9	1.3	2.2	2.0	7.9	8.0	0.1
				_	_			_		_
	Non HT40, 6 to 54 Mbps	1	6	5.1				5.1	11.0	5.9
	Non HT40, 6 to 54 Mbps	2	9	5.1	4.2			7.7	8.0	0.3
	Non HT40, 6 to 54 Mbps	3	11	0.3	-0.3	0.8		5.1	6.0	0.9
	Non HT40, 6 to 54 Mbps	4	12	-0.9	-2.1	-1.2	-1.6	4.6	5.0	0.4
	HT/VHT40, M0 to M7	1	6	3.7				3.7	11.0	7.3
	HT/VHT40, M0 to M7	2	9	3.7	2.3			6.1	8.0	1.9
	HT/VHT40, M8 to M15	2	6	3.7	2.3			6.1	11.0	4.9
	HT/VHT40, M0 to M7	3	11	1.6	-0.1	1.4		5.8	6.0	0.2
	HT/VHT40, M8 to M15	3	8	3.7	2.3	4.1		8.2	9.0	0.8
	HT/VHT40, M16 to M23	3	6	3.7	2.3	4.1		8.2	11.0	2.8
5270	HT/VHT40, M0 to M7	4	12	-1.5	-2.3	-0.6	-1.7	4.5	5.0	0.5
52	HT/VHT40, M8 to M15	4	9	1.6	-0.1	1.4	0.7	7.0	8.0	1.0
	HT/VHT40, M16 to M23	4	7	3.7	2.3	4.1	3.5	9.5	10.0	0.5
	HT/VHT40 Beam Forming, M0 to M7	2	9	3.7	2.3			6.1	8.0	1.9
	HT/VHT40 Beam Forming, M8 to M15	2	6	3.7	2.3			6.1	11.0	4.9
	HT/VHT40 Beam Forming, M0 to M7	3	11	-0.1	-1.3	0.1		4.4	6.0	1.6
	HT/VHT40 Beam Forming, M8 to M15	3	8	3.7	2.3	4.1		8.2	9.0	0.8
	HT/VHT40 Beam Forming, M16 to M23	3	6	3.7	2.3	4.1		8.2	11.0	2.8
	HT/VHT40 Beam Forming, M0 to M7	4	12	-2.2	-3.1	-1.7	-2.7	3.6	5.0	1.4
	HT/VHT40 Beam Forming, M8 to M15	4	9	1.6	-0.1	1.4	0.7	7.0	8.0	1.0
	HT/VHT40 Beam Forming, M16 to M23	4	7	2.7	1.2	3.0	1.8	8.3	10.0	1.7
	HT/VHT40 STBC, M0 to M7	2	6	3.7	2.3			6.1	11.0	4.9

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	HT/VHT40 STBC, M0 to M7	3	8	3.7	2.3	4.1		8.2	9.0	0.8	
	HT/VHT40 STBC, M0 to M7	4	9	1.6	-0.1	1.4	0.7	7.0	8.0	1.0	
			_	<u>-</u>	_	_	-	_	_	_	
	Non HT80, 6 to 54 Mbps	1	6	-3.5				-3.5	11.0	14.5	
	Non HT80, 6 to 54 Mbps	2	9	-3.5	-3.8			-0.6	8.0	8.6	
	Non HT80, 6 to 54 Mbps	3	11	-4.8	-4.9	-5.1		-0.2	6.0	6.2	
	Non HT80, 6 to 54 Mbps	4	12	-5.7	-5.5	-5.8	-6.3	0.2	5.0	4.8	
	VHT80, M0 to M9 1ss	1	6	-2.5				-2.5	11.0	13.5	
	VHT80, M0 to M9 1ss	2	9	-3.8	-3.3			-0.5	8.0	8.5	
	VHT80, M0 to M9 2ss	2	6	-3.8	-3.3			-0.5	11.0	11.5	
	VHT80, M0 to M9 1ss	3	11	-4.9	-4.0	-4.4		0.4	6.0	5.6	
	VHT80, M0 to M9 2ss	3	8	-4.9	-4.0	-4.4		0.4	9.0	8.6	
	VHT80, M0 to M9 3ss	3	6	-4.9	-4.0	-4.4		0.4	11.0	10.6	
	VHT80, M0 to M9 1ss	4	12	-5.8	-4.9	-5.3	-5.5	0.7	5.0	4.3	
5290	VHT80, M0 to M9 2ss	4	9	-5.8	-4.9	-5.3	-5.5	0.7	8.0	7.3	
52	VHT80, M0 to M9 3ss	4	7	-5.8	-4.9	-5.3	-5.5	0.7	10.0	9.3	
	VHT80 Beam Forming, M0 to M9 1ss	2	9	-4.9	-4.0			-1.4	8.0	9.4	
	VHT80 Beam Forming, M0 to M9 2ss	2	6	-3.8	-3.3			-0.5	11.0	11.5	
	VHT80 Beam Forming, M0 to M9 1ss	3	11	-8.6	-7.7	-8.2		-3.4	6.0	9.4	
	VHT80 Beam Forming, M0 to M9 2ss	3	8	-6.6	-5.8	-6.5		-1.5	9.0	10.5	
	VHT80 Beam Forming, M0 to M9 3ss	3	6	-4.9	-4.0	-4.4		0.4	11.0	10.6	
	VHT80 Beam Forming, M0 to M9 1ss	4	12	-10.7	-10.1	-10.0	-10.5	-4.3	5.0	9.3	
	VHT80 Beam Forming, M0 to M9 2ss	4	9	-8.6	-7.7	-8.2	-8.5	-2.2	8.0	10.2	
	VHT80 Beam Forming, M0 to M9 3ss	4	7	-6.6	-5.8	-6.5	-6.5	-0.3	10.0	10.3	
	VHT80 STBC, M0 to M9 1ss	2	6	-3.8	-3.3			-0.5	11.0	11.5	
	VHT80 STBC, M0 to M9 1ss	3	6	-4.9	-4.0	-4.4		0.4	11.0	10.6	
	VHT80 STBC, M0 to M9 1ss	4	6	-5.8	-4.9	-5.3	-5.5	0.7	11.0	10.3	
	Non HT20, 6 to 54 Mbps	1	6	6.8				6.8	11.0	4.2	
	Non HT20, 6 to 54 Mbps	2	9	4.5	3.8			7.2	8.0	0.8	
	Non HT20, 6 to 54 Mbps	3	11	0.9	1.0	1.4		5.9	6.0	0.1	
	Non HT20, 6 to 54 Mbps	4	12	-1.9	-2.0	-1.6	-2.5	4.0	5.0	1.0	
	Non HT20 Beam Forming, 6 to 54 Mbps	2	9	4.5	3.8			7.2	8.0	0.8	
0	Non HT20 Beam Forming, 6 to 54 Mbps	3	11	0.9	1.0	1.4		5.9	6.0	0.1	
5280	Non HT20 Beam Forming, 6 to 54 Mbps	4	12	-1.9	-2.0	-1.6	-2.5	4.0	5.0	1.0	
.,	HT/VHT20, M0 to M7	1	6	6.4				6.4	11.0	4.6	
	HT/VHT20, M0 to M7	2	9	4.1	3.7			6.9	8.0	1.1	
	HT/VHT20, M8 to M15	2	6	5.4	4.7			8.1	11.0	2.9	
	HT/VHT20, M0 to M7	3	11	0.6	0.7	1.4		5.7	6.0	0.3	
	HT/VHT20, M8 to M15	3	8	4.1	3.7	4.5		8.9	9.0	0.1	
	HT/VHT20, M16 to M23	3	6	4.1	3.7	4.5		8.9	11.0	2.1	

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	HT/VHT20, M0 to M7	4	12	-1.0	-1.3	-0.7	-1.6	4.9	5.0	0.1
	HT/VHT20, M8 to M15	4	9	1.7	1.6	1.9	1.1	7.6	8.0	0.4
	HT/VHT20, M16 to M23	4	7	4.1	3.5	4.1	3.0	9.7	10.0	0.3
	HT/VHT20 Beam Forming, M0 to M7	2	9	4.1	3.7			6.9	8.0	1.1
	HT/VHT20 Beam Forming, M8 to M15	2	6	5.4	4.7			8.1	11.0	2.9
	HT/VHT20 Beam Forming, M0 to M7	3	11	0.6	0.7	1.4		5.7	6.0	0.3
	HT/VHT20 Beam Forming, M8 to M15	3	8	4.1	3.5	4.1		8.7	9.0	0.3
	HT/VHT20 Beam Forming, M16 to M23	3	6	4.1	3.7	4.5		8.9	11.0	2.1
	HT/VHT20 Beam Forming, M0 to M7	4	12	-1.0	-1.3	-0.7	-1.6	4.9	5.0	0.1
	HT/VHT20 Beam Forming, M8 to M15	4	9	1.7	1.6	1.9	1.1	7.6	8.0	0.4
	HT/VHT20 Beam Forming, M16 to M23	4	7	4.1	3.5	4.1	3.0	9.7	10.0	0.3
	HT/VHT20 STBC, M0 to M7	2	6	5.4	4.7			8.1	11.0	2.9
	HT/VHT20 STBC, M0 to M7	3	8	4.1	3.7	4.5		8.9	9.0	0.1
	HT/VHT20 STBC, M0 to M7	4	9	1.7	1.6	1.9	1.1	7.6	8.0	0.4
	Non HT20, 6 to 54 Mbps	1	6	6.2				6.2	11.0	4.8
	Non HT20, 6 to 54 Mbps	2	9	4.0	4.8			7.4	8.0	0.6
	Non HT20, 6 to 54 Mbps	3	11	0.7	1.2	0.8		5.7	6.0	0.3
	Non HT20, 6 to 54 Mbps	4	12	-2.6	-1.3	-2.2	-2.6	3.9	5.0	1.1
	Non HT20 Beam Forming, 6 to 54 Mbps	2	9	4.0	4.8			7.4	8.0	0.6
	Non HT20 Beam Forming, 6 to 54 Mbps	3	11	0.7	1.2	0.8		5.7	6.0	0.3
	Non HT20 Beam Forming, 6 to 54 Mbps	4	12	-2.6	-1.3	-2.2	-2.6	3.9	5.0	1.1
	HT/VHT20, M0 to M7	1	6	6.0				6.0	11.0	5.0
	HT/VHT20, M0 to M7	2	9	4.0	4.2			7.1	8.0	0.9
	HT/VHT20, M8 to M15	2	6	6.0	6.6			9.3	11.0	1.7
	HT/VHT20, M0 to M7	3	11	0.7	1.7	1.1		6.0	6.0	0.0
	HT/VHT20, M8 to M15	3	8	4.0	4.2	4.2		8.9	9.0	0.1
5300	HT/VHT20, M16 to M23	3	6	5.4	5.4	5.1		10.1	11.0	0.9
53	HT/VHT20, M0 to M7	4	12	-1.5	-0.6	-0.9	-1.3	5.0	5.0	0.0
	HT/VHT20, M8 to M15	4	9	1.5	2.3	1.7	1.5	7.8	8.0	0.2
	HT/VHT20, M16 to M23	4	7	4.0	4.2	4.2	3.3	10.0	10.0	0.0
	HT/VHT20 Beam Forming, M0 to M7	2	9	4.0	4.2			7.1	8.0	0.9
	HT/VHT20 Beam Forming, M8 to M15	2	6	6.0	6.6			9.3	11.0	1.7
	HT/VHT20 Beam Forming, M0 to M7	3	11	0.7	1.7	1.1		6.0	6.0	0.0
	HT/VHT20 Beam Forming, M8 to M15	3	8	4.0	4.2	4.2		8.9	9.0	0.1
	HT/VHT20 Beam Forming, M16 to M23	3	6	5.4	5.4	5.1		10.1	11.0	0.9
	HT/VHT20 Beam Forming, M0 to M7	4	12	-1.5	-0.6	-0.9	-1.3	5.0	5.0	0.0
	HT/VHT20 Beam Forming, M8 to M15	4	9	1.5	2.3	1.7	1.5	7.8	8.0	0.2
	HT/VHT20 Beam Forming, M16 to M23	4	7	4.0	4.2	4.2	3.3	10.0	10.0	0.0
	HT/VHT20 STBC, M0 to M7	2	6	6.0	6.6			9.3	11.0	1.7
	HT/VHT20 STBC, M0 to M7	3	8	4.0	4.2	4.2		8.9	9.0	0.1

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	HT/VHT20 STBC, M0 to M7	4	9	1.5	2.3	1.7	1.5	7.8	8.0	0.2	
_				_							
	Non HT40, 6 to 54 Mbps	1	6	0.1				0.1	11.0	10.9	
	Non HT40, 6 to 54 Mbps	2	9	-0.8	0.0			2.6	8.0	5.4	
	Non HT40, 6 to 54 Mbps	3	11	-0.8	0.0	-1.1		4.2	6.0	1.8	
	Non HT40, 6 to 54 Mbps	4	12	-1.7	-0.8	-2.0	-1.7	4.5	5.0	0.5	
	HT/VHT40, M0 to M7	1	6	1.6				1.6	11.0	9.4	
	HT/VHT40, M0 to M7	2	9	0.1	0.6			3.4	8.0	4.6	
	HT/VHT40, M8 to M15	2	6	0.1	0.6			3.4	11.0	7.6	
	HT/VHT40, M0 to M7	3	11	-0.8	-0.2	-0.9		4.1	6.0	1.9	
	HT/VHT40, M8 to M15	3	8	-0.8	-0.2	-0.9		4.1	9.0	4.9	
	HT/VHT40, M16 to M23	3	6	-0.8	-0.2	-0.9		4.1	11.0	6.9	
	HT/VHT40, M0 to M7	4	12	-2.0	-1.3	-2.0	-1.9	4.2	5.0	0.8	
10	HT/VHT40, M8 to M15	4	9	-2.0	-1.3	-2.0	-1.9	4.2	8.0	3.8	
5310	HT/VHT40, M16 to M23	4	7	-2.0	-1.3	-2.0	-1.9	4.2	10.0	5.8	
	HT/VHT40 Beam Forming, M0 to M7	2	9	-0.8	-0.2			2.5	8.0	5.5	
	HT/VHT40 Beam Forming, M8 to M15	2	6	0.1	0.6			3.4	11.0	7.6	
	HT/VHT40 Beam Forming, M0 to M7	3	11	2.2	-4.3	-5.2		3.7	6.0	2.3	
	HT/VHT40 Beam Forming, M8 to M15	3	8	-3.0	-1.8	-3.0		2.2	9.0	6.8	
	HT/VHT40 Beam Forming, M16 to M23	3	6	-0.8	-0.2	-0.9		4.1	11.0	6.9	
	HT/VHT40 Beam Forming, M0 to M7	4	12	-5.7	-5.2	-6.4	-6.2	0.2	5.0	4.8	
	HT/VHT40 Beam Forming, M8 to M15	4	9	-3.8	-2.7	-3.8	-3.8	2.5	8.0	5.5	
	HT/VHT40 Beam Forming, M16 to M23	4	7	-3.0	-1.8	-3.0	-2.7	3.4	10.0	6.6	
	HT/VHT40 STBC, M0 to M7	2	6	0.1	0.6			3.4	11.0	7.6	
	HT/VHT40 STBC, M0 to M7	3	8	-0.8	-0.2	-0.9		4.1	9.0	4.9	
	HT/VHT40 STBC, M0 to M7	4	9	-2.0	-1.3	-2.0	-1.9	4.2	8.0	3.8	
	Non HT20, 6 to 54 Mbps	1	6	6.2				6.2	11.0	4.8	
	Non HT20, 6 to 54 Mbps	2	9	4.5	5.0			7.8	8.0	0.2	
	Non HT20, 6 to 54 Mbps	3	11	0.7	1.8	0.8		5.9	6.0	0.1	
	Non HT20, 6 to 54 Mbps	4	12	-2.2	-1.3	-2.1	-2.1	4.1	5.0	0.9	
	Non HT20 Beam Forming, 6 to 54 Mbps	2	9	4.5	5.0			7.8	8.0	0.2	
_	Non HT20 Beam Forming, 6 to 54 Mbps	3	11	0.7	1.8	0.8		5.9	6.0	0.1	
	Non HT20 Beam Forming, 6 to 54 Mbps	4	12	-2.2	-1.3	-2.1	-2.1	4.1	5.0	0.9	
1 22 -	HT/VHT20, M0 to M7	1	6	6.2				6.2	11.0	4.8	
	HT/VHT20, M0 to M7	2	9	3.8	4.8			7.3	8.0	0.7	
	HT/VHT20, M8 to M15	2	6	5.0	6.0			8.5	11.0	2.5	
	HT/VHT20, M0 to M7	3	11	0.8	1.7	0.8		5.9	6.0	0.1	
	HT/VHT20, M8 to M15	3	8	3.8	4.8	4.0		9.0	9.0	0.0	
	HT/VHT20, M16 to M23	3	6	5.0	6.0	5.3		10.2	11.0	0.8	
	HT/VHT20, M0 to M7	4	12	-2.3	-1.2	-2.3	-2.1	4.1	5.0	0.9	

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HT/VHT20, M8 to M15	4	9	0.8	1.7	0.8	1.1	7.1	8.0	0.9
HT/VHT20, M16 to M23	4	7	2.9	3.6	2.6	2.8	9.0	10.0	1.0
HT/VHT20 Beam Forming, M0 to M7	2	9	3.8	4.8			7.3	8.0	0.7
HT/VHT20 Beam Forming, M8 to M15	2	6	5.0	6.0			8.5	11.0	2.5
HT/VHT20 Beam Forming, M0 to M7	3	11	0.8	1.7	0.8		5.9	6.0	0.1
HT/VHT20 Beam Forming, M8 to M15	3	8	3.8	4.8	4.0		9.0	9.0	0.0
HT/VHT20 Beam Forming, M16 to M23	3	6	5.0	6.0	5.3		10.2	11.0	0.8
HT/VHT20 Beam Forming, M0 to M7	4	12	-2.3	-1.2	-2.3	-2.1	4.1	5.0	0.9
HT/VHT20 Beam Forming, M8 to M15	4	9	0.8	1.7	0.8	1.1	7.1	8.0	0.9
HT/VHT20 Beam Forming, M16 to M23	4	7	2.9	3.6	2.6	2.8	9.0	10.0	1.0
HT/VHT20 STBC, M0 to M7	2	6	5.0	6.0			8.5	11.0	2.5
HT/VHT20 STBC, M0 to M7	3	8	3.8	4.8	4.0		9.0	9.0	0.0
HT/VHT20 STBC, M0 to M7	4	9	0.8	1.7	0.8	1.1	7.1	8.0	0.9

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Peak Output Power, 5270 MHz, HT/VHT40 Beam Forming, M8 to M15





Antenna A

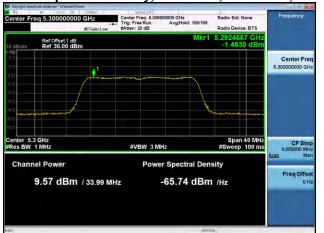
Antenna B

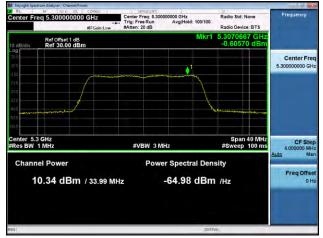


Antenna C

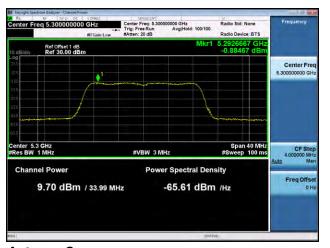


Power Spectral Density, 5300 MHz, HT/VHT20, M0 to M7





Antenna A



Antenna B



Antenna C

Antenna D



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
	EUT	S01	Ŋ	
1	Support	S02		\checkmark

Tested By :	Date of testing:
Jose Aguirre	10-Feb-2016 to 22-Feb-2016
Test Result : PASS	

See Appendix C for list of test equipment

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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	-65.2				-59.2	-41.25	18.0
	Non HT160, 6 to 54 Mbps	2	6	-65.2	-65.1			-56.1	-41.25	14.9
	Non HT160, 6 to 54 Mbps	3	6	-65.2	-65.1	-65.1		-54.4	-41.25	13.1
	Non HT160, 6 to 54 Mbps	4	6	-65.2	-65.1	-65.1	-65.2	-53.1	-41.25	11.9
	VHT160, M0.1 to M9.1	1	6	-65.0				-59.0	-41.25	17.8
	VHT160, M0.1 to M9.1	2	6	-65.0	-65.1			-56.0	-41.25	14.8
	VHT160, M0.2 to M9.2	2	6	-65.0	-65.1			-56.0	-41.25	14.8
	VHT160, M0.1 to M9.1	3	6	-65.0	-65.1	-65.1		-54.3	-41.25	13.0
	VHT160, M0.2 to M9.2	3	6	-65.0	-65.1	-65.1		-54.3	-41.25	13.0
	VHT160, M0.3 to M9.3	3	6	-65.0	-65.1	-65.1		-54.3	-41.25	13.0
	VHT160, M0.1 to M9.1	4	6	-65.0	-65.1	-65.1	-65.2	-53.1	-41.25	11.8
5250	VHT160, M0.2 to M9.2	4	6	-65.0	-65.1	-65.1	-65.2	-53.1	-41.25	11.8
52	VHT160, M0.3 to M9.3	4	6	-65.0	-65.1	-65.1	-65.2	-53.1	-41.25	11.8
	VHT160 Beam Forming, M0.1 to M9.1	2	6	-65.0	-65.1			-56.0	-41.25	14.8
	VHT160 Beam Forming, M0.2 to M9.2	2	6	-65.0	-65.1			-56.0	-41.25	14.8
	VHT160 Beam Forming, M0.1 to M9.1	3	6	-65.0	-65.1	-65.1		-54.3	-41.25	13.0
	VHT160 Beam Forming, M0.2 to M9.2	3	6	-65.0	-65.1	-65.1		-54.3	-41.25	13.0
	VHT160 Beam Forming, M0.3 to M9.3	3	6	-65.0	-65.1	-65.1		-54.3	-41.25	13.0
	VHT160 Beam Forming, M0.1 to M9.1	4	6	-65.0	-65.1	-65.1	-65.2	-53.1	-41.25	11.8
	VHT160 Beam Forming, M0.2 to M9.2	4	6	-65.0	-65.1	-65.1	-65.2	-53.1	-41.25	11.8
	VHT160 Beam Forming, M0.3 to M9.3	4	6	-65.0	-65.1	-65.1	-65.2	-53.1	-41.25	11.8
	VHT160 STBC, M0.1 to M9.1	2	6	-65.0	-65.1			-56.0	-41.25	14.8
	VHT160 STBC, M0.1 to M9.1	3	6	-65.0	-65.1	-65.1		-54.3	-41.25	13.0
	VHT160 STBC, M0.1 to M9.1	4	6	-65.0	-65.1	-65.1	-65.2	-53.1	-41.25	11.8
	Non HT20, 6 to 54 Mbps	1	6	-66.4				-60.4	-41.25	19.2
	Non HT20, 6 to 54 Mbps	2	6	-66.4	-66.2			-57.3	-41.25	16.0
	Non HT20, 6 to 54 Mbps	3	6	-66.4	-66.2	-66.1		-55.5	-41.25	14.2
0	Non HT20, 6 to 54 Mbps	4	6	-66.4	-66.2	-66.1	-66.1	-54.2	-41.25	12.9
5260	Non HT20 Beam Forming, 6 to 54 Mbps	2	9	-66.4	-66.2			-54.3	-41.25	13.0
٥,	Non HT20 Beam Forming, 6 to 54 Mbps	3	11	-66.4	-66.2	-66.1		-50.7	-41.25	9.4
	Non HT20 Beam Forming, 6 to 54 Mbps	4	12	-66.4	-66.2	-66.1	-66.1	-48.2	-41.25	6.9
	HT/VHT20, M0 to M7	1	6	-66.3				-60.3	-41.25	19.1
	HT/VHT20, M0 to M7	2	6	-66.3	-66.3			-57.3	-41.25	16.0

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	HT/VHT20, M8 to M15	2	6	-66.3	-66.3			-57.3	-41.25	16.0
	HT/VHT20, M0 to M7	3	6	-66.3	-66.3	-66.0		-55.4	-41.25	14.2
	HT/VHT20, M8 to M15	3	6	-66.3	-66.3	-66.0		-55.4	-41.25	14.2
	HT/VHT20, M16 to M23	3	6	-66.3	-66.3	-66.0		-55.4	-41.25	14.2
	HT/VHT20, M0 to M7	4	6	-66.3	-66.3	-66.0	-66.0	-54.1	-41.25	12.9
	HT/VHT20, M8 to M15	4	6	-66.3	-66.3	-66.0	-66.0	-54.1	-41.25	12.9
	HT/VHT20, M16 to M23	4	6	-66.3	-66.3	-66.0	-66.0	-54.1	-41.25	12.9
	HT/VHT20 Beam Forming, M0 to M7	2	9	-66.3	-66.3			-54.3	-41.25	13.0
	HT/VHT20 Beam Forming, M8 to M15	2	6	-66.3	-66.3			-57.3	-41.25	16.0
	HT/VHT20 Beam Forming, M0 to M7	3	11	-66.3	-66.3	-66.0		-50.6	-41.25	9.4
	HT/VHT20 Beam Forming, M8 to M15	3	8	-66.3	-66.3	-66.0		-53.6	-41.25	12.4
	HT/VHT20 Beam Forming, M16 to M23	3	6	-66.3	-66.3	-66.0		-55.4	-41.25	14.2
	HT/VHT20 Beam Forming, M0 to M7	4	12	-66.3	-66.3	-66.0	-66.0	-48.1	-41.25	6.9
	HT/VHT20 Beam Forming, M8 to M15	4	9	-66.3	-66.3	-66.0	-66.0	-51.1	-41.25	9.9
	HT/VHT20 Beam Forming, M16 to M23	4	7	-66.3	-66.3	-66.0	-66.0	-52.9	-41.25	11.7
	HT/VHT20 STBC, M0 to M7	2	6	-66.3	-66.3			-57.3	-41.25	16.0
	HT/VHT20 STBC, M0 to M7	3	6	-66.3	-66.3	-66.0		-55.4	-41.25	14.2
	HT/VHT20 STBC, M0 to M7	4	6	-66.3	-66.3	-66.0	-66.0	-54.1	-41.25	12.9
			_	_	_			_	_	_
	Non HT40, 6 to 54 Mbps	1	6	-66.3				-60.3	-41.25	19.1
	Non HT40, 6 to 54 Mbps	2	6	-66.3	-66.3			-57.3	-41.25	16.0
	Non HT40, 6 to 54 Mbps	3	6	-66.3	-66.3	-66.3		-55.5	-41.25	14.3
	Non HT40, 6 to 54 Mbps	4	6	-66.3	-66.3	-66.3	-66.4	-54.3	-41.25	13.1
	HT/VHT40, M0 to M7	1	6	-66.3				-60.3	-41.25	19.1
	HT/VHT40, M0 to M7	2	6	-66.3	-66.2			-57.2	-41.25	16.0
	HT/VHT40, M8 to M15	2	6	-66.3	-66.2			-57.2	-41.25	16.0
	HT/VHT40, M0 to M7	3	6	-66.3	-66.2	-66.4		-55.5	-41.25	14.3
	HT/VHT40, M8 to M15	3	6	-66.3	-66.2	-66.4		-55.5	-41.25	14.3
	HT/VHT40, M16 to M23	3	6	-66.3	-66.2	-66.4		-55.5	-41.25	14.3
5270	HT/VHT40, M0 to M7	4	6	-66.3	-66.2	-66.4	-66.3	-54.3	-41.25	13.0
52	HT/VHT40, M8 to M15	4	6	-66.3	-66.2	-66.4	-66.3	-54.3	-41.25	13.0
	HT/VHT40, M16 to M23	4	6	-66.3	-66.2	-66.4	-66.3	-54.3	-41.25	13.0
	HT/VHT40 Beam Forming, M0 to M7	2	9	-66.3	-66.2			-54.2	-41.25	13.0
	HT/VHT40 Beam Forming, M8 to M15	2	6	-66.3	-66.2			-57.2	-41.25	16.0
	HT/VHT40 Beam Forming, M0 to M7	3	11	-66.3	-66.2	-66.4		-50.7	-41.25	9.5
	HT/VHT40 Beam Forming, M8 to M15	3	8	-66.3	-66.2	-66.4		-53.7	-41.25	12.5
	HT/VHT40 Beam Forming, M16 to M23	3	6	-66.3	-66.2	-66.4		-55.5	-41.25	14.3
	HT/VHT40 Beam Forming, M0 to M7	4	12	-66.3	-66.2	-66.4	-66.3	-48.3	-41.25	7.0
	HT/VHT40 Beam Forming, M8 to M15	4	9	-66.3	-66.2	-66.4	-66.3	-51.3	-41.25	10.0
	HT/VHT40 Beam Forming, M16 to M23	4	7	-66.3	-66.2	-66.4	-66.3	-53.1	-41.25	11.8
	HT/VHT40 STBC, M0 to M7	2	6	-66.3	-66.2			-57.2	-41.25	16.0

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HT/VHT40 STBC, M0 to M7											
Non HT80, 6 to 54 Mbps		HT/VHT40 STBC, M0 to M7	3	6	-66.3	-66.2	-66.4		-55.5	-41.25	14.3
Non HT80, 6 to 54 Mbps		HT/VHT40 STBC, M0 to M7	4	6	-66.3	-66.2	-66.4	-66.3	-54.3	-41.25	13.0
Non HT80, 6 to 54 Mbps											
Non HT80, 6 to 54 Mbps		Non HT80, 6 to 54 Mbps	1	6	-66.1				-60.1	-41.25	18.9
Non HT80, 6 to 54 Mbps		Non HT80, 6 to 54 Mbps	2	6	-66.1	-66.3			-57.2	-41.25	15.9
VHT80, M0.1 to M9.1		Non HT80, 6 to 54 Mbps	3	6	-66.1	-66.3	-66.2		-55.4	-41.25	14.2
VHT80, M0.1 to M9.1		Non HT80, 6 to 54 Mbps	4	6	-66.1	-66.3	-66.2	-66.3	-54.2	-41.25	13.0
VHT80, M0.2 to M9.2		VHT80, M0.1 to M9.1	1	6	-66.2				-60.2	-41.25	19.0
VHT80, M0.1 to M9.1 VHT80, M0.2 to M9.2 VHT80, M0.3 to M9.3 3 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 14.2 VHT80, M0.3 to M9.3 3 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 14.2 VHT80, M0.1 to M9.1 4 6 -66.2 -66.3 -66.3 -66.3 -54.3 -41.25 13.0 VHT80, M0.3 to M9.3 4 6 -66.2 -66.3 -66.3 -66.3 -54.3 -41.25 13.0 VHT80, M0.3 to M9.3 4 6 -66.2 -66.3 -66.3 -66.3 -54.3 -41.25 13.0 VHT80, M0.3 to M9.3 4 6 -66.2 -66.3 -66.3 -66.3 -54.3 -41.25 13.0 VHT80 Beam Forming, M0.1 to M9.1 2 6 -66.2 -66.3 -66.3 -66.3 -57.2 -41.25 16.0 VHT80 Beam Forming, M0.2 to M9.2 2 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 14.2 VHT80 Beam Forming, M0.1 to M9.1 3 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 14.2 VHT80 Beam Forming, M0.3 to M9.3 3 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 14.2 VHT80 Beam Forming, M0.3 to M9.3 3 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 14.2 VHT80 Beam Forming, M0.3 to M9.3 3 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 14.2 VHT80 Beam Forming, M0.3 to M9.3 4 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 13.0 VHT80 Beam Forming, M0.3 to M9.3 4 6 -66.2 -66.3 -66.3 -66.3 -54.3 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 2 6 -66.2 -66.3 -66.3 -66.3 -54.3 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 3 6 -66.2 -66.3 -66.3 -66.3 -54.3 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 3 6 -66.2 -66.3 -66.3 -66.3 -54.3 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.3 -66.3 -66.3 -54.3 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.3 -66.3 -66.3 -54.3 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.3 -66.3 -66.3 -54.3 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.3 -66.3 -66.3 -54.3 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.3 -66.3 -66.3 -54.3 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.3 -66.3 -66.3 -54.3 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 5 6 -66.2 -66.0 -66.3 -66.3 -54.3 -55.5 -41.25 14.2 VHT80 STBC, M0.1 to M9.1 5 6 -66.2 -66.0 -66.3 -66.3 -54.3 -55.5 -41.25 18.9 Non HT20, 6 to 54 Mbps Non HT20, 6 to 54 Mbps 1 6 -66.2 -66.0 -65.8 -66.1 -54.0 -41.25 18.9 Non HT20 Beam Forming, 6 to 54 Mbps N		VHT80, M0.1 to M9.1	2	6	-66.2	-66.3			-57.2	-41.25	16.0
VHT80, M0.2 to M9.2 3 6 -66.2 -66.3 -66.3 -65.5 -41.25 14.2 VHT80, M0.3 to M9.3 3 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 14.2 VHT80, M0.1 to M9.1 4 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 13.0 VHT80, M0.2 to M9.2 4 6 -66.2 -66.3 -66.3 -66.3 -54.3 -41.25 13.0 VHT80, M0.3 to M9.3 4 6 -66.2 -66.3 -66.3 -66.3 -54.3 -41.25 13.0 VHT80 Beam Forming, M0.1 to M9.1 2 6 -66.2 -66.3 -66.3 -66.3 -57.2 -41.25 16.0 VHT80 Beam Forming, M0.2 to M9.2 2 6 -66.2 -66.3 -66.3 -66.3 -57.2 -41.25 16.0 VHT80 Beam Forming, M0.2 to M9.2 3 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 14.2 VHT80 Beam Forming, M0.2 to M9.2 3 6 -66.2 -66.3 -66.3 -55.5 -41.25 14.2 VHT80 Beam Forming, M0.3 to M9.3 3 6 -66.2 -66.3 -66.3 -55.5 -41.25 14.2 VHT80 Beam Forming, M0.1 to M9.1 4 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 14.2 VHT80 Beam Forming, M0.2 to M9.2 4 6 -66.2 -66.3 -66.3 -66.3 -54.3 -41.25 13.0 VHT80 Beam Forming, M0.3 to M9.3 4 6 -66.2 -66.3 -66.3 -66.3 -54.3 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 2 6 -66.2 -66.3 -66.3 -66.3 -54.3 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 3 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 14.2 VHT80 STBC, M0.1 to M9.1 3 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 14.2 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 14.2 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.3 -66.3 -66.3 -66.3 -40.2 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.3 -66.3 -66.3 -66.3 -40.2 -41.25 14.2 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.3 -66.3 -66.3 -66.3 -40.2 -41.25 14.2 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.3 -66.3 -66.3 -66.3 -40.2 -41.25 14.2 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -		VHT80, M0.2 to M9.2	2	6	-66.2	-66.3			-57.2	-41.25	16.0
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, M0.2 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, M0.3 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 M9.3 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, M0.2 to M9.2 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 M9.1		VHT80, M0.1 to M9.1	3	6	-66.2	-66.3	-66.3		-55.5	-41.25	14.2
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, M0.1 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, M0.3 to M9.2 VHT80 Beam Forming, M0.3 to M9.2 VHT80 Beam Forming, M0.1 to M9.1 VHT80 Beam Forming, M0.3 to M9.2 3 6 -66.2 -66.3 -66.3 -55.5 -41.25 14.2 VHT80 Beam Forming, M0.3 to M9.3 3 6 -66.2 -66.3 -66.3 -55.5 -41.25 14.2 VHT80 Beam Forming, M0.3 to M9.3 3 6 -66.2 -66.3 -66.3 -55.5 -41.25 14.2 VHT80 Beam Forming, M0.3 to M9.3 4 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 14.2 VHT80 Beam Forming, M0.3 to M9.1 4 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 2 6 -66.2 -66.3 -66.3 -66.3 -54.3 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.0 -65.8 -66.3 -55.5 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.0 -65.8 -66.3 -55.5 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.0 -65.8 -66.3 -55.5 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.0 -65.8 -66.3 -66.3 -55.5 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 5 6 -66.2 -66.0 -65.8 -66.3 -55.5 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 5 7 7 41.25 15.8 Non HT20, 6 to 54 Mbps 5 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		VHT80, M0.2 to M9.2	3	6	-66.2	-66.3	-66.3		-55.5	-41.25	14.2
NHT80, M0.2 to M9.2		VHT80, M0.3 to M9.3	3	6	-66.2	-66.3	-66.3		-55.5	-41.25	14.2
NHT80, M0.3 to M9.3		VHT80, M0.1 to M9.1	4	6	-66.2	-66.3	-66.3	-66.3	-54.3	-41.25	13.0
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, M0.3 to M9.3 3 6 -66.2 -66.3 -66.3 -55.5 -41.25 14.2 VHT80 Beam Forming, M0.3 to M9.3 3 6 -66.2 -66.3 -66.3 -55.5 -41.25 14.2 VHT80 Beam Forming, M0.3 to M9.3 3 6 -66.2 -66.3 -66.3 -55.5 -41.25 14.2 VHT80 Beam Forming, M0.1 to M9.1 4 6 -66.2 -66.3 -66.3 -66.3 -54.3 -41.25 13.0 VHT80 Beam Forming, M0.3 to M9.3 4 6 -66.2 -66.3 -66.3 -66.3 -54.3 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 2 6 -66.2 -66.3 -66.3 -66.3 -54.3 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 14.2 VHT80 STBC, M0.1 to M9.1 3 6 -66.2 -66.3 -66.3 -66.3 -54.3 -41.25 13.0 Non HT20, 6 to 54 Mbps 1 6 -66.2 -66.0 -66.3 -66.3 -66.3 -54.3 -41.25 13.0 Non HT20, 6 to 54 Mbps 3 6 -66.2 -66.0 -65.8 -65.1 -41.25 14.0 Non HT20, 6 to 54 Mbps 4 6 -66.2 -66.0 -65.8 -65.1 -54.0 -41.25 12.8 Non HT20 Beam Forming, 6 to 54 Mbps 3 11 -66.2 -66.0 -65.8 -66.1 -54.0 -41.25 12.8 Non HT20 Beam Forming, 6 to 54 Mbps 4 6 -66.2 -66.0 -65.8 -66.1 -54.0 -41.25 12.8 Non HT20 Beam Forming, 6 to 54 Mbps 4 6 -66.2 -66.0 -65.8 -66.1 -54.0 -41.25 12.8 Non HT20 Beam Forming, 6 to 54 Mbps 4 6 -66.2 -66.0 -65.8 -66.1 -54.0 -41.25 12.8 Non HT20 Beam Forming, 6 to 54 Mbps 4 6 -66.2 -66.0 -65.8 -66.1 -54.0 -41.25 12.8 Non HT20 Beam Forming, 6 to 54 Mbps 4 12 -66.2 -66.0 -65.8 -66.1 -54.0 -41.25 12.8 Non HT20, M0 to M7 1 6 -66.1 -66.2 -66.0 -65.8 -66.1 -48.0 -41.25 18.9 HT/VHT20, M0 to M7 1 6 -66.1 -66.2 -66.0 -55.3 -41.25 14.1 HT/VHT20, M0 to M7 2 6 -66.1 -66.2 -66.0 -55.3 -41.25 14.1 HT/VHT20, M0 to M7 3 6 -66.1 -66.2 -66.0 -55.3 -41.25 14.1	8	VHT80, M0.2 to M9.2	4	6	-66.2	-66.3	-66.3	-66.3	-54.3	-41.25	13.0
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, M0.3 to M9.3 3 6 -66.2 -66.3 -66.3 -55.5 -41.25 14.2 VHT80 Beam Forming, M0.3 to M9.3 3 6 -66.2 -66.3 -66.3 -55.5 -41.25 14.2 VHT80 Beam Forming, M0.1 to M9.1 4 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 13.0 VHT80 Beam Forming, M0.2 to M9.2 4 6 -66.2 -66.3 -66.3 -66.3 -54.3 -41.25 13.0 VHT80 Beam Forming, M0.3 to M9.3 4 6 -66.2 -66.3 -66.3 -66.3 -54.3 -41.25 13.0 VHT80 Beam Forming, M0.3 to M9.3 4 6 -66.2 -66.3 -66.3 -66.3 -54.3 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 2 6 -66.2 -66.3 -66.3 -66.3 -54.3 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 3 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 14.2 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.3 -66.3 -66.3 -54.3 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 3 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 14.2 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 14.2 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 14.2 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 14.2 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.0 -66.3 -66.3 -55.5 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.0 -66.3 -66.3 -55.5 -55.2 -41.25 14.2 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.0 -66.3 -66.3 -55.5 -55.2 -41.25 14.2 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.0 -66.3 -66.3 -66.3 -55.5 -55.3 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 5 6 -66.2 -66.0 -66.3 -66.3 -66.3 -55.5 -55.3 -41.25 14.2 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.0 -66.2 -66.0 -66.3 -66.3 -55.5 -55.5 -41.25 14.2 VHT80 STBC, M0.1 to M9.1 5 7 7 41.25 15.9 Non HT20, 6 to 54 Mbps 5 8 6 -66.2 -66.0 -66.3 -66.3 -66.3 -55.5 -55.5 -41.25 14.2 Non HT20, 6 to 54 Mbps 5 8 6 -66.2 -66.0 -66.2 -66.0 -65.8 -66.1 -54.0 -41.25 12.8 Non HT20 Beam Forming, 6 to 54 Mbps 5 8 6 -66.2 -66.0 -66.2 -66.0 -65.8	526	VHT80, M0.3 to M9.3	4	6	-66.2	-66.3	-66.3	-66.3	-54.3	-41.25	13.0
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 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 14.2 VHT80 Beam Forming, M0.3 to M9.3 3 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 14.2 VHT80 Beam Forming, M0.3 to M9.3 3 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 14.2 VHT80 Beam Forming, M0.1 to M9.1 4 6 -66.2 -66.3 -66.3 -66.3 -54.3 -41.25 13.0 VHT80 Beam Forming, M0.3 to M9.3 4 6 -66.2 -66.3 -66.3 -66.3 -54.3 -41.25 13.0 VHT80 Beam Forming, M0.3 to M9.3 4 6 -66.2 -66.3 -66.3 -66.3 -54.3 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 2 6 -66.2 -66.3 -66.3 -66.3 -54.3 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 3 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 14.2 VHT80 STBC, M0.1 to M9.1 3 6 -66.2 -66.3 -66.3 -66.3 -54.3 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 3 6 -66.2 -66.3 -66.3 -66.3 -54.3 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.3 -66.3 -66.3 -54.3 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 14.2 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 14.2 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 14.2 Non HT20, 6 to 54 Mbps 3 6 -66.2 -66.0 -65.8 -66.3 -54.3 -41.25 13.0 Non HT20, 6 to 54 Mbps 4 6 -66.2 -66.0 -65.8 -66.1 -54.0 -41.25 12.8 Non HT20, 6 to 54 Mbps 3 6 -66.2 -66.0 -65.8 -66.1 -54.0 -41.25 12.8 Non HT20 Beam Forming, 6 to 54 Mbps 4 6 -66.2 -66.0 -65.8 -66.1 -54.0 -41.25 12.8 Non HT20 Beam Forming, 6 to 54 Mbps 4 12 -66.2 -66.0 -65.8 -66.1 -54.0 -41.25 12.8 Non HT20 Beam Forming, 6 to 54 Mbps 4 12 -66.2 -66.0 -65.8 -66.1 -54.0 -41.25 13.9 HT/VHT20, M0 to M7 1 6 -66.1 -66.2 -66.0 -65.8 -66.1 -48.0 -41.25 15.9 HT/VHT20, M0 to M7 1 6 -66.1 -66.2 -66.0 -55.3 -41.25 14.1 HT/VHT20, M8 to M15 3 6 -66.1 -66.2 -66.0 -55.3 -41.25 14.1		VHT80 Beam Forming, M0.1 to M9.1	2	6	-66.2	-66.3			-57.2	-41.25	16.0
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 -66.2 -66.3 -66.3 -55.5 -41.25 14.2 VHT80 Beam Forming, M0.3 to M9.3 3 6 -66.2 -66.3 -66.3 -55.5 -41.25 14.2 VHT80 Beam Forming, M0.1 to M9.1 VHT80 Beam Forming, M0.1 to M9.1 VHT80 Beam Forming, M0.2 to M9.2 4 6 -66.2 -66.3 -66.3 -66.3 -54.3 -41.25 13.0 VHT80 Beam Forming, M0.3 to M9.3 VHT80 Beam Forming, M0.3 to M9.3 4 6 -66.2 -66.3 -66.3 -66.3 -54.3 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 2 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 14.2 VHT80 STBC, M0.1 to M9.1 3 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 3 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.0 -66.3 -66.3 -55.5 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.0 -66.3 -66.3 -55.5 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.0 -66.3 -66.3 -55.5 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.0 -66.3 -66.3 -55.5 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.0 -66.3 -66.3 -55.5 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.0 -66.3 -66.3 -54.3 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 5 6 -66.2 -66.0 -66.3 -66.3 -55.5 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 5 7 7 1 -41.25 15.8 Non HT20, 6 to 54 Mbps 5 9 -66.2 -66.0 -65.8 -66.1 -54.0 -41.25 12.8 Non HT20 Beam Forming, 6 to 54 Mbps 7 1 6 -66.2 -66.0 -65.8 -66.1 -54.0 -41.25 12.8 Non HT20 Beam Forming, 6 to 54 Mbps 7 1 6 -66.1 -66.2 -66.0 -65.8 -66.1 -48.0 -41.25 15.9 HT/VHT20, M0 to M7 1 6 -66.1 -66.2 -66.0 -65.8 -66.1 -48.0 -41.25 15.9 HT/VHT20, M0 to M7 1 6 -66.1 -66.2 -66.0 -55.8 -66.1 -48.0 -41.25 15.9 HT/VHT20, M0 to M7 3 6 -66.1 -66.2 -66.0 -55.3 -41.25 14.1 HT/VHT20, M8 to M15 3 6 -66.1 -66.2 -66.0 -55.3 -41.25 14.1			-	6	+ +	1					
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VHT80 Beam Forming, M0.3 to M9.3 3 6 -66.2 -66.3 -66.3 -55.5 -41.25 14.2 VHT80 Beam Forming, M0.1 to M9.1 4 6 -66.2 -66.3 -66.3 -54.3 -41.25 13.0 VHT80 Beam Forming, M0.2 to M9.2 4 6 -66.2 -66.3 -66.3 -54.3 -41.25 13.0 VHT80 Beam Forming, M0.3 to M9.3 4 6 -66.2 -66.3 -66.3 -54.3 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 2 6 -66.2 -66.3 -66.3 -57.2 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 3 6 -66.2 -66.3 -66.3 -55.5 -41.25 14.2 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.3 -66.3 -55.5 -41.25 13.0 VHT80 STBC, M0.1 to M9.1 4 6 -66.2 -66.3 -66.3 -66.3 -55.5 -41.25 14.2 VHT80 STBC, M0.1 to M9.1 1				6						-41.25	
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Non HT20, 6 to 54 Mbps			+		_	1	1	-66.3		-	
Non HT20, 6 to 54 Mbps 2 6 -66.2 -66.0 -57.1 -41.25 15.8											
Non HT20, 6 to 54 Mbps Section		Non HT20, 6 to 54 Mbps	1	6	-66.2				-60.2	-41.25	19.0
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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, 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 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, 6 to 54 Mbps Non HT20 Beam Forming, 6 to 54 Mbps HT20 Beam Forming, 6 to 54 M				6	_	_	-65.8			-	
Non HT20 Beam Forming, 6 to 54 Mbps HT/VHT20, M0 to M7 Non HT20 Beam Forming, 6 to 54 Mbps HT20 Beam Forming, 6 to			+		_	_	+	-66.1			
Non HT20 Beam Forming, 6 to 54 Mbps 3 11 -66.2 -66.0 -65.8 -50.4 -41.25 9.2 Non HT20 Beam Forming, 6 to 54 Mbps 4 12 -66.2 -66.0 -65.8 -66.1 -48.0 -41.25 6.8 HT/VHT20, M0 to M7 1 6 -66.1 -66.2 -66.0 -65.8 -66.1 -41.25 18.9 HT/VHT20, M0 to M7 2 6 -66.1 -66.2 -57.1 -41.25 15.9 HT/VHT20, M0 to M7 3 6 -66.1 -66.2 -66.0 -55.3 -41.25 14.1 HT/VHT20, M8 to M15 3 6 -66.1 -66.2 -66.0 -55.3 -41.25 14.1			+		_	+				-	
Non HT20 Beam Forming, 6 to 54 Mbps 4 12 -66.2 -66.0 -65.8 -66.1 -48.0 -41.25 6.8 HT/VHT20, M0 to M7 1 6 -66.1 -66.1 -60.1 -41.25 18.9 HT/VHT20, M0 to M7 2 6 -66.1 -66.2 -57.1 -41.25 15.9 HT/VHT20, M0 to M7 3 6 -66.1 -66.2 -66.0 -55.3 -41.25 14.1 HT/VHT20, M8 to M15 3 6 -66.1 -66.2 -66.0 -55.3 -41.25 14.1			+	11	_		-65.8		1	-41.25	
HT/VHT20, M0 to M7 1 6 -66.1 -60.1 -41.25 18.9 HT/VHT20, M0 to M7 2 6 -66.1 -66.2 -57.1 -41.25 15.9 HT/VHT20, M8 to M15 2 6 -66.1 -66.2 -57.1 -41.25 15.9 HT/VHT20, M0 to M7 3 6 -66.1 -66.2 -66.0 -55.3 -41.25 14.1 HT/VHT20, M8 to M15 3 6 -66.1 -66.2 -66.0 -55.3 -41.25 14.1	28 C				+			-66.1			
HT/VHT20, M0 to M7 2 6 -66.1 -66.2 -57.1 -41.25 15.9 HT/VHT20, M8 to M15 2 6 -66.1 -66.2 -57.1 -41.25 15.9 HT/VHT20, M0 to M7 3 6 -66.1 -66.2 -66.0 -55.3 -41.25 14.1 HT/VHT20, M8 to M15 3 6 -66.1 -66.2 -66.0 -55.3 -41.25 14.1	5		+		_						
HT/VHT20, M8 to M15 2 6 -66.1 -66.2 -57.1 -41.25 15.9 HT/VHT20, M0 to M7 3 6 -66.1 -66.2 -66.0 -55.3 -41.25 14.1 HT/VHT20, M8 to M15 3 6 -66.1 -66.2 -66.0 -55.3 -41.25 14.1			+	6		-66.2				-	
HT/VHT20, M0 to M7 3 6 -66.1 -66.2 -66.0 -55.3 -41.25 14.1 HT/VHT20, M8 to M15 3 6 -66.1 -66.2 -66.0 -55.3 -41.25 14.1		·	+		_	+					
HT/VHT20, M8 to M15 3 6 -66.1 -66.2 -66.0 -55.3 -41.25 14.1			+ +		_	1	-66.0				
			-	1	+		1				
		HT/VHT20, M16 to M23	3	6	-66.1	-66.2	-66.0		-55.3	-41.25	14.1

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	HT/VHT20, M0 to M7	4	6	-66.1	-66.2	-66.0	-66.0	-54.1	-41.25	12.8
	HT/VHT20, M8 to M15	4	6	-66.1	-66.2	-66.0	-66.0	-54.1	-41.25	12.8
	HT/VHT20, M16 to M23	4	6	-66.1	-66.2	-66.0	-66.0	-54.1	-41.25	12.8
	HT/VHT20 Beam Forming, M0 to M7	2	9	-66.1	-66.2			-54.1	-41.25	12.9
	HT/VHT20 Beam Forming, M8 to M15	2	6	-66.1	-66.2			-57.1	-41.25	15.9
	HT/VHT20 Beam Forming, M0 to M7	3	11	-66.1	-66.2	-66.0		-50.5	-41.25	9.3
	HT/VHT20 Beam Forming, M8 to M15	3	8	-66.1	-66.2	-66.0		-53.5	-41.25	12.3
	HT/VHT20 Beam Forming, M16 to M23	3	6	-66.1	-66.2	-66.0		-55.3	-41.25	14.1
	HT/VHT20 Beam Forming, M0 to M7	4	12	-66.1	-66.2	-66.0	-66.0	-48.1	-41.25	6.8
	HT/VHT20 Beam Forming, M8 to M15	4	9	-66.1	-66.2	-66.0	-66.0	-51.1	-41.25	9.8
	HT/VHT20 Beam Forming, M16 to M23	4	7	-66.1	-66.2	-66.0	-66.0	-52.9	-41.25	11.6
	HT/VHT20 STBC, M0 to M7	2	6	-66.1	-66.2			-57.1	-41.25	15.9
	HT/VHT20 STBC, M0 to M7	3	6	-66.1	-66.2	-66.0		-55.3	-41.25	14.1
	HT/VHT20 STBC, M0 to M7	4	6	-66.1	-66.2	-66.0	-66.0	-54.1	-41.25	12.8
				•						
	Non HT20, 6 to 54 Mbps	1	6	-65.7				-59.7	-41.25	18.5
	Non HT20, 6 to 54 Mbps	2	6	-65.7	-65.8			-56.7	-41.25	15.5
	Non HT20, 6 to 54 Mbps	3	6	-65.7	-65.8	-65.8		-55.0	-41.25	13.7
	Non HT20, 6 to 54 Mbps	4	6	-65.7	-65.8	-65.8	-65.9	-53.8	-41.25	12.5
	Non HT20 Beam Forming, 6 to 54 Mbps	2	9	-65.7	-65.8			-53.7	-41.25	12.5
	Non HT20 Beam Forming, 6 to 54 Mbps	3	11	-65.7	-65.8	-65.8		-50.2	-41.25	8.9
	Non HT20 Beam Forming, 6 to 54 Mbps	4	12	-65.7	-65.8	-65.8	-65.9	-47.8	-41.25	6.5
	HT/VHT20, M0 to M7	1	6	-65.6				-59.6	-41.25	18.4
	HT/VHT20, M0 to M7	2	6	-65.6	-65.9			-56.7	-41.25	15.5
	HT/VHT20, M8 to M15	2	6	-65.6	-65.9			-56.7	-41.25	15.5
	HT/VHT20, M0 to M7	3	6	-65.6	-65.9	-65.9		-55.0	-41.25	13.8
	HT/VHT20, M8 to M15	3	6	-65.6	-65.9	-65.9		-55.0	-41.25	13.8
00	HT/VHT20, M16 to M23	3	6	-65.6	-65.9	-65.9		-55.0	-41.25	13.8
5300	HT/VHT20, M0 to M7	4	6	-65.6	-65.9	-65.9	-65.9	-53.8	-41.25	12.6
	HT/VHT20, M8 to M15	4	6	-65.6	-65.9	-65.9	-65.9	-53.8	-41.25	12.6
	HT/VHT20, M16 to M23	4	6	-65.6	-65.9	-65.9	-65.9	-53.8	-41.25	12.6
	HT/VHT20 Beam Forming, M0 to M7	2	9	-65.6	-65.9			-53.7	-41.25	12.5
	HT/VHT20 Beam Forming, M8 to M15	2	6	-65.6	-65.9			-56.7	-41.25	15.5
	HT/VHT20 Beam Forming, M0 to M7	3	11	-65.6	-65.9	-65.9		-50.2	-41.25	9.0
	HT/VHT20 Beam Forming, M8 to M15	3	8	-65.6	-65.9	-65.9		-53.2	-41.25	12.0
	HT/VHT20 Beam Forming, M16 to M23	3	6	-65.6	-65.9	-65.9		-55.0	-41.25	13.8
	HT/VHT20 Beam Forming, M0 to M7	4	12	-65.6	-65.9	-65.9	-65.9	-47.8	-41.25	6.6
	HT/VHT20 Beam Forming, M8 to M15	4	9	-65.6	-65.9	-65.9	-65.9	-50.8	-41.25	9.6
	HT/VHT20 Beam Forming, M16 to M23	4	7	-65.6	-65.9	-65.9	-65.9	-52.6	-41.25	11.4
	HT/VHT20 STBC, M0 to M7	2	6	-65.6	-65.9			-56.7	-41.25	15.5
	HT/VHT20 STBC, M0 to M7	3	6	-65.6	-65.9	-65.9		-55.0	-41.25	13.8

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HT/VHT20 STBC, M0 to M7											
Non HT40, 6 to 54 Mbps 3		HT/VHT20 STBC, M0 to M7	4	6	-65.6	-65.9	-65.9	-65.9	-53.8	-41.25	12.6
Non HT40, 6 to 54 Mbps 3											-
Non HT40, 6 to 54 Mbps		Non HT40, 6 to 54 Mbps	1	6	-65.9				-59.9	-41.25	18.7
Non HT40, 6 to 54 Mbps		Non HT40, 6 to 54 Mbps	2	6	-65.9	-65.8			-56.8	-41.25	15.6
HT/VHT40, M0 to M7 1 6 6 65.9 65.9 56.9 56.9 41.25 18.7 HT/VHT40, M0 to M7 2 6 65.9 65.9 65.9 56.9 56.9 41.25 15.6 HT/VHT40, M0 to M7 3 6 6 65.9 65.9 65.9 65.8 55.1 41.25 13.8 HT/VHT40, M0 to M7 3 6 6 65.9 65.9 65.9 65.8 55.1 41.25 13.8 HT/VHT40, M0 to M7 3 6 6 65.9 65.9 65.9 65.8 55.1 41.25 13.8 HT/VHT40, M0 to M7 4 6 6 65.9 65.9 65.9 65.8 55.1 41.25 13.8 HT/VHT40, M0 to M7 4 6 6 65.9 65.9 65.9 65.8 55.1 41.25 13.8 HT/VHT40, M0 to M7 4 6 6 65.9 65.9 65.9 65.8 65.8 53.8 41.25 12.6 HT/VHT40, M0 to M7 4 6 6 65.9 65.9 65.9 65.8 65.8 53.8 41.25 12.6 HT/VHT40, M0 to M2 4 6 6 65.9 65.9 65.9 65.8 65.8 53.8 41.25 12.6 HT/VHT40 Beam Forming, M0 to M7 2 9 65.9 65.9 65.9 65.8 65.8 53.8 41.25 12.6 HT/VHT40 Beam Forming, M0 to M7 3 11 65.9 65.9 65.9 65.8 53.3 41.25 12.6 HT/VHT40 Beam Forming, M0 to M7 3 11 65.9 65.9 65.8 56.8 53.3 41.25 12.6 HT/VHT40 Beam Forming, M1 to M13 4 7 6 6 65.9 65.9 65.8 65.8 53.3 41.25 12.6 HT/VHT40 Beam Forming, M1 to M23 4 7 6 6 65.9 65.9 65.8 65.8 53.3 41.25 12.0 HT/VHT40 Beam Forming, M1 to M23 4 7 6 6 6 65.9 65.9 65.8 65.8 65.8 65.8 65.8 65.8 65.8 65.8		Non HT40, 6 to 54 Mbps	3	6	-65.9	-65.8	-65.8		-55.1	-41.25	13.8
HT/VHT40, M0 to M7 Color		Non HT40, 6 to 54 Mbps	4	6	-65.9	-65.8	-65.8	-65.9	-53.8	-41.25	12.6
HT/WHT40, M8 to M15 HT/WHT40, M0 to M7 HT/WHT40, M8 to M15 HT/WHT40, M8 to M23 HT/WHT40, M8 to M23 HT/WHT40, M8 to M23 HT/WHT40, M8 to M23 HT/WHT40, M8 to M35 HT/WHT40 Beam Forming, M0 to M7 HT/WHT40 Beam Forming, M8 to M15 HT/WHT40 Beam Forming, M8 to M15 HT/WHT40 Beam Forming, M8 to M35 HT/WH30 Beam Forming, G to 54 Mbps HT/WH30 Beam F		HT/VHT40, M0 to M7	1	6	-65.9				-59.9	-41.25	18.7
HT/VHT40, M0 to M7 HT/VHT40, M8 to M15 HT/VHT40, M16 to M23 HT/VHT40, M8 to M15 HT/VHT40, M16 to M23 HT/VHT40, M16 to M23 HT/VHT40, M8 to M15 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 Beam Forming, M16 to M23 HT/VHT40 SEBC, M0 to M7 HT/VHT40 SEBC, M0 to M7 HT/VHT40 STBC, M0 to M7 HT/VHT40 ST		HT/VHT40, M0 to M7	2	6	-65.9	-65.9			-56.9	-41.25	15.6
HT/VHT40, M8 to M15		HT/VHT40, M8 to M15	2	6	-65.9	-65.9			-56.9	-41.25	15.6
HT/VHT40, M16 to M23		HT/VHT40, M0 to M7	3	6	-65.9	-65.9	-65.8		-55.1	-41.25	13.8
HT/VHT40, M0 to M7 HT/VHT40, M8 to M15 HT/VHT40, M8 to M15 HT/VHT40, M8 to M15 HT/VHT40, M8 to M23 HT/VHT40, M8 to M23 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 STBC, M0 to M7 HT/VHT40, M8 to M15 HT/VHT20, M0 to M7 HT/VHT20, M0 to M7 HT/VHT20, M0 to M7 HT/VHT20, M8 to M15 HT/VHT20, M0 to M15 HT/VHT20, M1		HT/VHT40, M8 to M15	3	6	-65.9	-65.9	-65.8		-55.1	-41.25	13.8
HT/VHT40, M8 to M15 HT/VHT40, M16 to M23 HT/VHT40, M16 to M23 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 Beam Forming, M16 to M23 HT/VHT40 Beam Forming, M16 to M23 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 Beam Forming, M8 to M23 HT/VHT40 BEAM FORMING HT/VHT40 STBC, M0 to M7 HT/VHT20, M8 to M15 HT/VHT20, M8 to M15 HT/VHT20, M0 to M7 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		HT/VHT40, M16 to M23	3	6	-65.9	-65.9	-65.8		-55.1	-41.25	13.8
HT/VHT40, M16 to M23		HT/VHT40, M0 to M7	4	6	-65.9	-65.9	-65.8	-65.8	-53.8	-41.25	12.6
HT/VHT40 Beam Forming, M0 to M7 2 9 -65.9 -65.9 -65.9 -53.9 -41.25 12.6 HT/VHT40 Beam Forming, M8 to M15 2 6 -65.9 -65.9 -65.8 -50.3 -41.25 15.6 HT/VHT40 Beam Forming, M0 to M7 3 11 -65.9 -65.9 -65.8 -50.3 -41.25 12.0 HT/VHT40 Beam Forming, M8 to M15 3 8 -65.9 -65.9 -65.8 -50.3 -41.25 12.0 HT/VHT40 Beam Forming, M8 to M15 3 8 -65.9 -65.9 -65.8 -53.3 -41.25 12.0 HT/VHT40 Beam Forming, M0 to M7 4 12 -65.9 -65.9 -65.8 -65.8 -65.8 -47.8 -41.25 6.6 HT/VHT40 Beam Forming, M8 to M15 4 9 -65.9 -65.9 -65.9 -65.8 -65.8 -50.8 -41.25 12.0 HT/VHT40 Beam Forming, M16 to M23 4 7 -65.9 -65.9 -65.9 -65.8 -65.8 -50.8 -41.25 11.4 HT/VHT40 STBC, M0 to M7 2 6 -65.9 -65.9 -65.9 -65.8 -65.8 -50.8 -41.25 13.8 HT/VHT40 STBC, M0 to M7 3 6 -65.9 -65.9 -65.9 -65.8 -65.8 -51.1 -41.25 13.8 HT/VHT40 STBC, M0 to M7 4 6 -65.1 -65.4 -65.2 -65.8 -53.8 -41.25 12.0 Non HT20, 6 to 54 Mbps 3 6 -65.1 -65.4 -65.2 -55.2 -41.25 13.2 Non HT20, 6 to 54 Mbps 3 6 -65.1 -65.4 -65.2 -65.2 -53.2 -41.25 13.2 Non HT20 Beam Forming, 6 to 54 Mbps 3 11 -65.1 -65.4 -65.2 -65.2 -53.2 -41.25 12.0 Non HT20 Beam Forming, 6 to 54 Mbps 3 11 -65.1 -65.4 -65.2 -65.2 -53.2 -41.25 12.0 Non HT20 Beam Forming, 6 to 54 Mbps 3 11 -65.1 -65.4 -65.2 -65.2 -53.2 -41.25 13.2 Non HT20 Beam Forming, 6 to 54 Mbps 4 12 -65.1 -65.4 -65.2 -65.2 -53.2 -41.25 12.0 HT/VHT20, M0 to M7 1 6 -65.2 -65.3 -65.3 -56.2 -41.25 15.0 HT/VHT20, M0 to M7 1 6 -65.2 -65.3 -65.3 -56.2 -41.25 15.0 HT/VHT20, M0 to M7 1 6 -65.2 -65.3 -65.3 -56.5 -56.2 -41.25 15.0 HT/VHT20, M0 to M7 1 6 -65.2 -65.3 -65.3 -56.5 -56.2 -41.25 13.2 HT/VHT20, M0 to M7 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2 HT/VHT20, M0 to M7 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2 HT/VHT20, M0 to M7 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2 HT/VHT20, M0 to M7 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2 HT/VHT20, M8 to M15 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2	10	HT/VHT40, M8 to M15	4	6	-65.9	-65.9	-65.8	-65.8	-53.8	-41.25	12.6
HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 Beam Forming, M16 to M23 HT/VHT40 STBC, M0 to M7 HT/VHT40, M0 to M7 HT/VHT40, M0 to M7 HT/VHT40, M0 to M7 HT/VHT20, M0 to M7 HT/VHT2	53	HT/VHT40, M16 to M23	4	6	-65.9	-65.9	-65.8	-65.8	-53.8	-41.25	12.6
HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 Beam Forming, M16 to M23 3 6 -65.9 -65.9 -65.8 -55.1 -41.25 12.0 HT/VHT40 Beam Forming, M16 to M23 3 6 -65.9 -65.9 -65.8 -55.1 -41.25 13.8 HT/VHT40 Beam Forming, M0 to M7 4 12 -65.9 -65.9 -65.8 -65.8 -65.8 -47.8 -41.25 6.0 HT/VHT40 Beam Forming, M8 to M15 4 9 -65.9 -65.9 -65.8 -65.8 -65.8 -50.8 -41.25 9.6 HT/VHT40 Beam Forming, M16 to M23 4 7 -65.9 -65.9 -65.9 -65.8 -65.8 -50.8 -41.25 11.4 HT/VHT40 STBC, M0 to M7 2 6 -65.9 -65.9 -65.9 -65.8 -65.8 -50.6 -41.25 11.6 HT/VHT40 STBC, M0 to M7 3 6 -65.9 -65.9 -65.9 -65.8 -55.1 -41.25 13.8 HT/VHT40 STBC, M0 to M7 4 6 -65.9 -65.9 -65.8 -65.8 -55.1 -41.25 13.8 HT/VHT40 STBC, M0 to M7 4 6 -65.9 -65.9 -65.8 -65.8 -55.1 -41.25 13.8 Non HT20, 6 to 54 Mbps 1 6 -65.1 -65.4 -65.2 -65.8 -53.8 -41.25 12.0 Non HT20, 6 to 54 Mbps 3 6 -65.1 -65.4 -65.2 -55.2 -64.2 -41.25 13.2 Non HT20 Beam Forming, 6 to 54 Mbps 4 6 -65.1 -65.4 -65.2 -65.2 -65.2 -41.25 12.0 Non HT20 Beam Forming, 6 to 54 Mbps 3 11 -65.1 -65.4 -65.2 -65.2 -65.2 -41.25 12.0 Non HT20 Beam Forming, 6 to 54 Mbps 4 12 -65.1 -65.4 -65.2 -65.2 -65.2 -41.25 12.0 Non HT20 Beam Forming, 6 to 54 Mbps 4 12 -65.1 -65.4 -65.2 -65.2 -65.2 -41.25 12.0 HT/VHT20, M0 to M7 1 6 -65.2 -65.3 -65.3 -56.2 -41.25 15.0 HT/VHT20, M0 to M7 1 6 -65.2 -65.3 -65.3 -56.2 -41.25 15.0 HT/VHT20, M0 to M7 1 6 -65.2 -65.3 -65.3 -56.2 -41.25 15.0 HT/VHT20, M0 to M7 2 6 -65.2 -65.3 -65.3 -56.5 -56.2 -41.25 15.0 HT/VHT20, M0 to M7 3 6 -65.2 -65.3 -65.3 -56.5 -56.2 -41.25 13.2 HT/VHT20, M0 to M7 3 6 -65.2 -65.3 -65.3 -56.5 -56.2 -41.25 13.2 HT/VHT20, M0 to M7 3 6 -65.2 -65.3 -65.3 -56.5 -56.2 -41.25 13.2 HT/VHT20, M0 to M7 3 6 -65.2 -65.3 -65.3 -56.5 -56.2 -41.25 13.2 HT/VHT20, M16 to M23 3 6 -65.2 -65.3 -65.3 -56.5 -56.		HT/VHT40 Beam Forming, M0 to M7	2	9	-65.9	-65.9			-53.9	-41.25	12.6
HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 Beam Forming, M16 to M23 HT/VHT40 Beam Forming, M16 to M23 HT/VHT40 Beam Forming, M16 to M23 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 Beam Forming, M16 to M23 HT/VHT40 Beam Forming, M16 to M23 HT/VHT40 SEC, M0 to M7 HT/VHT40 STBC, M0 to M4 HT/VHT40 STBC, M0 to M7 HT/VHT40 STBC, M0 to M4 HT/VHT40 STBC, M0 to M7 HT/VHT40 STBC, M0 to M4 HT/VHT40 STBC, M0 t		HT/VHT40 Beam Forming, M8 to M15	2	6	-65.9	-65.9			-56.9	-41.25	15.6
HT/VHT40 Beam Forming, M16 to M23 3 6 -65.9 -65.9 -65.8 -55.1 -41.25 13.8 HT/VHT40 Beam Forming, M0 to M7 4 12 -65.9 -65.9 -65.8 -65.8 -47.8 -41.25 6.6 HT/VHT40 Beam Forming, M8 to M15 4 9 -65.9 -65.9 -65.8 -65.8 -50.8 -41.25 9.6 HT/VHT40 Beam Forming, M16 to M23 4 7 -65.9 -65.9 -65.8 -65.8 -52.6 -41.25 11.4 HT/VHT40 STBC, M0 to M7 2 6 -65.9 -65.9 -65.8 -65.8 -55.1 -41.25 13.8 HT/VHT40 STBC, M0 to M7 3 6 -65.9 -65.9 -65.8 -55.1 -41.25 13.8 HT/VHT40 STBC, M0 to M7 4 6 -65.9 -65.9 -65.8 -55.8 -55.1 -41.25 13.8 Non HT20, 6 to 54 Mbps 1 6 -65.1 -65.4 -65.2 -56.2 -41.25 15.0 Non HT20, 6 to 54 Mbps 3 6 -65.1 -65.4 -65.2 -54.5 -41.25 13.2 Non HT20, 6 to 54 Mbps 3 6 -65.1 -65.4 -65.2 -54.5 -41.25 13.2 Non HT20 Beam Forming, 6 to 54 Mbps 3 11 -65.1 -65.4 -65.2 -65.2 -53.2 -41.25 12.0 Non HT20 Beam Forming, 6 to 54 Mbps 3 11 -65.1 -65.4 -65.2 -65.2 -49.7 -41.25 8.4 Non HT20 Beam Forming, 6 to 54 Mbps 4 12 -65.1 -65.4 -65.2 -65.2 -47.2 -41.25 13.0 Non HT20 Beam Forming, 6 to 54 Mbps 3 11 -65.1 -65.4 -65.2 -65.2 -47.2 -41.25 13.0 HT/VHT20, M0 to M7 1 6 -65.2 -65.3 -56.2 -47.2 -41.25 15.0 HT/VHT20, M0 to M7 2 6 -65.2 -65.3 -56.3 -56.2 -41.25 15.0 HT/VHT20, M0 to M7 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2 HT/VHT20, M0 to M7 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2 HT/VHT20, M0 to M7 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2 HT/VHT20, M0 to M7 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2 HT/VHT20, M0 to M7 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2 HT/VHT20, M0 to M7 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2 HT/VHT20, M0 to M7 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2 HT/VHT20, M0 to M7 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2 HT/VHT20, M0 to M7 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2 HT/VHT20, M0 to M7 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2 HT/VHT20, M0 to M23 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2		HT/VHT40 Beam Forming, M0 to M7	3	11	-65.9	-65.9	-65.8		-50.3	-41.25	9.0
HT/VHT40 Beam Forming, M0 to M7 4 12 -65.9 -65.9 -65.8 -65.8 -47.8 -41.25 6.6 HT/VHT40 Beam Forming, M8 to M15 4 9 -65.9 -65.9 -65.8 -65.8 -50.8 -41.25 9.6 HT/VHT40 Beam Forming, M16 to M23 4 7 -65.9 -65.9 -65.8 -65.8 -52.6 -41.25 11.4 HT/VHT40 STBC, M0 to M7 2 6 -65.9 -65.9 -65.9 -65.8 -55.1 -41.25 13.8 HT/VHT40 STBC, M0 to M7 3 6 -65.9 -65.9 -65.9 -65.8 -55.1 -41.25 13.8 HT/VHT40 STBC, M0 to M7 4 6 -65.9 -65.9 -65.8 -65.8 -53.8 -41.25 12.6 Non HT20, 6 to 54 Mbps 1 6 -65.1 -65.4 -65.2 -53.2 -41.25 15.0 Non HT20, 6 to 54 Mbps 3 6 -65.1 -65.4 -65.2 -65.2 -53.2 -41.25 12.0 Non HT20 Beam Forming, 6 to 54 Mbps 3 11 -65.1 -65.4 -65.2 -65.2 -49.7 -41.25 12.0 Non HT20 Beam Forming, 6 to 54 Mbps 3 11 -65.1 -65.4 -65.2 -65.2 -49.7 -41.25 12.0 Non HT20 Beam Forming, 6 to 54 Mbps 3 11 -65.1 -65.4 -65.2 -65.2 -49.7 -41.25 12.0 HT/VHT20, M0 to M7 1 6 -65.2 -65.3 -65.3 -56.2 -41.25 15.0 HT/VHT20, M0 to M7 2 6 -65.2 -65.3 -56.3 -56.2 -41.25 15.0 HT/VHT20, M0 to M7 3 6 -65.2 -65.3 -56.3 -56.2 -41.25 15.0 HT/VHT20, M0 to M7 3 6 -65.2 -65.3 -56.3 -56.2 -41.25 15.0 HT/VHT20, M0 to M7 3 6 -65.2 -65.3 -65.3 -56.2 -41.25 15.0 HT/VHT20, M0 to M7 3 6 -65.2 -65.3 -65.3 -56.2 -41.25 15.0 HT/VHT20, M0 to M7 3 6 -65.2 -65.3 -65.3 -56.5 -41.25 13.2 HT/VHT20, M0 to M7 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2 HT/VHT20, M0 to M7 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2 HT/VHT20, M0 to M7 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2		HT/VHT40 Beam Forming, M8 to M15	3	8	-65.9	-65.9	-65.8		-53.3	-41.25	12.0
HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 Beam Forming, M16 to M23 HT/VHT40 Beam Forming, M16 to M23 HT/VHT40 STBC, M0 to M7 RT/VHT40 STBC, M0 to M7 HT/VHT40 STBC, M0 to M7 HT/VHT20, M0 to M15 HT/VHT20, M16 to M23		HT/VHT40 Beam Forming, M16 to M23	3	6	-65.9	-65.9	-65.8		-55.1	-41.25	13.8
HT/VHT40 Beam Forming, M16 to M23 HT/VHT40 STBC, M0 to M7 2 6 -65.9 -65.9 -65.9 -65.8 -52.6 -41.25 15.6 HT/VHT40 STBC, M0 to M7 3 6 -65.9 -65.9 -65.9 -65.8 -55.1 -41.25 13.8 HT/VHT40 STBC, M0 to M7 4 6 -65.9 -65.9 -65.8 -65.8 -53.8 -41.25 12.6 Non HT20, 6 to 54 Mbps Non HT20 Beam Forming, 6 to 54 Mbps HT/VHT20, M0 to M7 1 6 -65.2 -65.3 -65.4 -65.2 -65.2 -47.2 -41.25 13.0 HT/VHT20, M0 to M7 1 6 -65.2 -65.3 -65.3 -56.2 -41.25 15.0 HT/VHT20, M0 to M7 1 6 -65.2 -65.3 -65.3 -56.2 -41.25 15.0 HT/VHT20, M0 to M7 1 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2 HT/VHT20, M8 to M15 1 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2 HT/VHT20, M8 to M15 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2		HT/VHT40 Beam Forming, M0 to M7	4	12	-65.9	-65.9	-65.8	-65.8	-47.8	-41.25	6.6
HT/VHT40 STBC, M0 to M7 A		HT/VHT40 Beam Forming, M8 to M15	4	9	-65.9	-65.9	-65.8	-65.8	-50.8	-41.25	9.6
HT/VHT40 STBC, M0 to M7 A		HT/VHT40 Beam Forming, M16 to M23	4	7	-65.9	-65.9	-65.8	-65.8	-52.6	-41.25	11.4
Non HT20, 6 to 54 Mbps 1 6 -65.1 -65.4 -65.2 -65.2 -65.2 -41.25 12.6		HT/VHT40 STBC, M0 to M7	2	6	-65.9	-65.9			-56.9	-41.25	15.6
Non HT20, 6 to 54 Mbps 1 6 -65.1 -65.4 -56.2 -41.25 17.9 Non HT20, 6 to 54 Mbps 3 6 -65.1 -65.4 -65.2 -54.5 -41.25 13.2 Non HT20, 6 to 54 Mbps 4 6 -65.1 -65.4 -65.2 -65.2 -53.2 -41.25 12.0 Non HT20 Beam Forming, 6 to 54 Mbps 2 9 -65.1 -65.4 -65.2 -65.2 -53.2 -41.25 12.0 Non HT20 Beam Forming, 6 to 54 Mbps 3 11 -65.1 -65.4 -65.2 -49.7 -41.25 8.4 Non HT20 Beam Forming, 6 to 54 Mbps 4 12 -65.1 -65.4 -65.2 -47.2 -41.25 6.0 HT/VHT20, M0 to M7 1 6 -65.2 -65.3 -59.2 -41.25 18.0 HT/VHT20, M8 to M15 2 6 -65.2 -65.3 -56.2 -41.25 15.0 HT/VHT20, M8 to M15 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2 HT/VHT20, M8 to M15 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2 HT/VHT20, M8 to M15 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2 HT/VHT20, M16 to M23 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2		HT/VHT40 STBC, M0 to M7	3	6	-65.9	-65.9	-65.8		-55.1	-41.25	13.8
Non HT20, 6 to 54 Mbps 2 6 -65.1 -65.4 -56.2 -41.25 15.0 Non HT20, 6 to 54 Mbps 3 6 -65.1 -65.4 -65.2 -54.5 -41.25 13.2 Non HT20, 6 to 54 Mbps 4 6 -65.1 -65.4 -65.2 -65.2 -53.2 -41.25 12.0 Non HT20 Beam Forming, 6 to 54 Mbps 2 9 -65.1 -65.4 -65.2 -65.2 -41.25 12.0 Non HT20 Beam Forming, 6 to 54 Mbps 3 11 -65.1 -65.4 -65.2 -49.7 -41.25 8.4 Non HT20 Beam Forming, 6 to 54 Mbps 4 12 -65.1 -65.4 -65.2 -47.2 -41.25 8.4 Non HT20 Beam Forming, 6 to 54 Mbps 4 12 -65.1 -65.4 -65.2 -65.2 -47.2 -41.25 8.4 HT/VHT20, M0 to M7 1 6 -65.2 -65.3 -56.2 -41.25 15.0 HT/VHT20, M8 to M15 2 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2 HT/VHT20, M8 to M		HT/VHT40 STBC, M0 to M7	4	6	-65.9	-65.9	-65.8	-65.8	-53.8	-41.25	12.6
Non HT20, 6 to 54 Mbps 2 6 -65.1 -65.4 -56.2 -41.25 15.0 Non HT20, 6 to 54 Mbps 3 6 -65.1 -65.4 -65.2 -54.5 -41.25 13.2 Non HT20, 6 to 54 Mbps 4 6 -65.1 -65.4 -65.2 -65.2 -53.2 -41.25 12.0 Non HT20 Beam Forming, 6 to 54 Mbps 2 9 -65.1 -65.4 -65.2 -65.2 -41.25 12.0 Non HT20 Beam Forming, 6 to 54 Mbps 3 11 -65.1 -65.4 -65.2 -49.7 -41.25 8.4 Non HT20 Beam Forming, 6 to 54 Mbps 4 12 -65.1 -65.4 -65.2 -47.2 -41.25 8.4 Non HT20 Beam Forming, 6 to 54 Mbps 4 12 -65.1 -65.4 -65.2 -65.2 -47.2 -41.25 8.4 HT/VHT20, M0 to M7 1 6 -65.2 -65.3 -56.2 -41.25 15.0 HT/VHT20, M8 to M15 2 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2 HT/VHT20, M8 to M											
Non HT20, 6 to 54 Mbps Non HT20, 6 to 54 Mbps 4 6 -65.1 -65.4 -65.2 -65.2 -53.2 -41.25 12.0 Non HT20 Beam Forming, 6 to 54 Mbps 2 9 -65.1 -65.4 -65.2 -65.2 -53.2 -41.25 12.0 Non HT20 Beam Forming, 6 to 54 Mbps 3 11 -65.1 -65.4 -65.2 -49.7 -41.25 8.4 Non HT20 Beam Forming, 6 to 54 Mbps 4 12 -65.1 -65.4 -65.2 -65.2 -47.2 -41.25 6.0 HT/VHT20, M0 to M7 1 6 -65.2 -65.3 -65.3 -56.2 -41.25 15.0 HT/VHT20, M8 to M15 2 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2 HT/VHT20, M8 to M15 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2 HT/VHT20, M8 to M15 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2 HT/VHT20, M8 to M15 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2 HT/VHT20, M8 to M15 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2		Non HT20, 6 to 54 Mbps	1	6	-65.1				-59.1	-41.25	17.9
Non HT20, 6 to 54 Mbps Non HT20 Beam Forming, 6 to 54 Mbps 11 -65.1 -65.4 -65.2 -49.7 -41.25 8.4 Non HT20 Beam Forming, 6 to 54 Mbps 4 12 -65.1 -65.4 -65.2 -65.2 -47.2 -41.25 6.0 HT/VHT20, M0 to M7 1 6 -65.2 -65.3 -65.3 -56.2 -41.25 15.0 HT/VHT20, M8 to M15 2 6 -65.2 -65.3 -65.3 -56.2 -41.25 15.0 HT/VHT20, M8 to M15 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2 HT/VHT20, M8 to M15 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2 HT/VHT20, M8 to M15 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2		Non HT20, 6 to 54 Mbps	2	6	-65.1	-65.4			-56.2	-41.25	15.0
Non HT20 Beam Forming, 6 to 54 Mbps Non HT20 Beam Forming, 6 to 54 Mbps 3		Non HT20, 6 to 54 Mbps	3	6	-65.1	-65.4	-65.2		-54.5	-41.25	13.2
Non HT20 Beam Forming, 6 to 54 Mbps Non HT20 Beam Forming, 6 to 54 Mbps 3		Non HT20, 6 to 54 Mbps	4	6	-65.1	-65.4	-65.2	-65.2	-53.2	-41.25	12.0
Non HT20 Beam Forming, 6 to 54 Mbps 4 12 -65.1 -65.2 -65.2 -65.2 -47.2 -41.25 6.0 HT/VHT20, M0 to M7 1 6 -65.2 -65.3 -59.2 -41.25 18.0 HT/VHT20, M0 to M7 2 6 -65.2 -65.3 -56.2 -41.25 15.0 HT/VHT20, M8 to M15 2 6 -65.2 -65.3 -54.5 -41.25 13.2 HT/VHT20, M8 to M15 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2 HT/VHT20, M16 to M23 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2		Non HT20 Beam Forming, 6 to 54 Mbps	2	9	-65.1	-65.4			-53.2	-41.25	12.0
HT/VHT20, M0 to M7 2 6 -65.2 -65.3 -56.2 -41.25 15.0 HT/VHT20, M8 to M15 2 6 -65.2 -65.3 -56.2 -41.25 15.0 HT/VHT20, M0 to M7 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2 HT/VHT20, M8 to M15 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2 HT/VHT20, M16 to M23 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2		Non HT20 Beam Forming, 6 to 54 Mbps	3	11	-65.1	-65.4	-65.2		-49.7	-41.25	8.4
HT/VHT20, M0 to M7 2 6 -65.2 -65.3 -56.2 -41.25 15.0 HT/VHT20, M8 to M15 2 6 -65.2 -65.3 -56.2 -41.25 15.0 HT/VHT20, M0 to M7 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2 HT/VHT20, M8 to M15 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2 HT/VHT20, M16 to M23 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2	20	Non HT20 Beam Forming, 6 to 54 Mbps	4	12	-65.1	-65.4	-65.2	-65.2	-47.2	-41.25	6.0
HT/VHT20, M8 to M15 2 6 -65.2 -65.3 -56.2 -41.25 15.0 HT/VHT20, M0 to M7 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2 HT/VHT20, M8 to M15 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2 HT/VHT20, M16 to M23 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2	53.	HT/VHT20, M0 to M7	1	6	-65.2				-59.2	-41.25	18.0
HT/VHT20, M0 to M7 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2 HT/VHT20, M8 to M15 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2 HT/VHT20, M16 to M23 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2		HT/VHT20, M0 to M7	2	6	-65.2	-65.3			-56.2	-41.25	15.0
HT/VHT20, M8 to M15 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2 HT/VHT20, M16 to M23 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2		HT/VHT20, M8 to M15	2	6	-65.2	-65.3			-56.2	-41.25	15.0
HT/VHT20, M16 to M23 3 6 -65.2 -65.3 -65.3 -54.5 -41.25 13.2		HT/VHT20, M0 to M7	3	6	-65.2	-65.3	-65.3		-54.5	-41.25	13.2
		HT/VHT20, M8 to M15	3	6	-65.2	-65.3	-65.3		-54.5	-41.25	13.2
HT/VHT20, M0 to M7 4 6 -65.2 -65.3 -65.3 -65.2 -53.2 -41.25 12.0		HT/VHT20, M16 to M23	3	6	-65.2	-65.3	-65.3		-54.5	-41.25	13.2
		HT/VHT20, M0 to M7	4	6	-65.2	-65.3	-65.3	-65.2	-53.2	-41.25	12.0

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HT/VHT20, M8 to M15	4	6	-65.2	-65.3	-65.3	-65.2	-53.2	-41.25	12.0
HT/VHT20, M16 to M23	4	6	-65.2	-65.3	-65.3	-65.2	-53.2	-41.25	12.0
HT/VHT20 Beam Forming, M0 to M7	2	9	-65.2	-65.3			-53.2	-41.25	12.0
HT/VHT20 Beam Forming, M8 to M15	2	6	-65.2	-65.3			-56.2	-41.25	15.0
HT/VHT20 Beam Forming, M0 to M7	3	11	-65.2	-65.3	-65.3		-49.7	-41.25	8.4
HT/VHT20 Beam Forming, M8 to M15	3	8	-65.2	-65.3	-65.3		-52.7	-41.25	11.4
HT/VHT20 Beam Forming, M16 to M23	3	6	-65.2	-65.3	-65.3		-54.5	-41.25	13.2
HT/VHT20 Beam Forming, M0 to M7	4	12	-65.2	-65.3	-65.3	-65.2	-47.2	-41.25	6.0
HT/VHT20 Beam Forming, M8 to M15	4	9	-65.2	-65.3	-65.3	-65.2	-50.2	-41.25	9.0
HT/VHT20 Beam Forming, M16 to M23	4	7	-65.2	-65.3	-65.3	-65.2	-52.0	-41.25	10.8
HT/VHT20 STBC, M0 to M7	2	6	-65.2	-65.3			-56.2	-41.25	15.0
HT/VHT20 STBC, M0 to M7	3	6	-65.2	-65.3	-65.3		-54.5	-41.25	13.2
HT/VHT20 STBC, M0 to M7	4	6	-65.2	-65.3	-65.3	-65.2	-53.2	-41.25	12.0

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										1
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	-37.8				-31.8	-21.25	10.6
	Non HT160, 6 to 54 Mbps	2	6	-37.8	-52.5			-31.7	-21.25	10.4
	Non HT160, 6 to 54 Mbps	3	6	-37.8	-52.5	-36.7		-28.1	-21.25	6.9
	Non HT160, 6 to 54 Mbps	4	6	-37.8	-52.5	-36.7	-56.1	-28.1	-21.25	6.9
	VHT160, M0.1 to M9.1	1	6	-39.3				-33.3	-21.25	12.1
	VHT160, M0.1 to M9.1	2	6	-39.3	-55.9			-33.2	-21.25	12.0
	VHT160, M0.2 to M9.2	2	6	-39.3	-55.9			-33.2	-21.25	12.0
	VHT160, M0.1 to M9.1	3	6	-39.3	-55.9	-53.9		-33.1	-21.25	11.8
	VHT160, M0.2 to M9.2	3	6	-39.3	-55.9	-53.9		-33.1	-21.25	11.8
	VHT160, M0.3 to M9.3	3	6	-39.3	-55.9	-53.9		-33.1	-21.25	11.8
	VHT160, M0.1 to M9.1	4	6	-39.3	-55.9	-53.9	-54.4	-32.9	-21.25	11.7
20	VHT160, M0.2 to M9.2	4	6	-39.3	-55.9	-53.9	-54.4	-32.9	-21.25	11.7
5250	VHT160, M0.3 to M9.3	4	6	-39.3	-55.9	-53.9	-54.4	-32.9	-21.25	11.7
	VHT160 Beam Forming, M0.1 to M9.1	2	6	-39.3	-55.9			-33.2	-21.25	12.0
	VHT160 Beam Forming, M0.2 to M9.2	2	6	-39.3	-55.9			-33.2	-21.25	12.0
	VHT160 Beam Forming, M0.1 to M9.1	3	6	-39.3	-55.9	-53.9		-33.1	-21.25	11.8
	VHT160 Beam Forming, M0.2 to M9.2	3	6	-39.3	-55.9	-53.9		-33.1	-21.25	11.8
	VHT160 Beam Forming, M0.3 to M9.3	3	6	-39.3	-55.9	-53.9		-33.1	-21.25	11.8
	VHT160 Beam Forming, M0.1 to M9.1	4	6	-39.3	-55.9	-53.9	-54.4	-32.9	-21.25	11.7
	VHT160 Beam Forming, M0.2 to M9.2	4	6	-39.3	-55.9	-53.9	-54.4	-32.9	-21.25	11.7
	VHT160 Beam Forming, M0.3 to M9.3	4	6	-39.3	-55.9	-53.9	-54.4	-32.9	-21.25	11.7
	VHT160 STBC, M0.1 to M9.1	2	6	-39.3	-55.9			-33.2	-21.25	12.0
	VHT160 STBC, M0.1 to M9.1	3	6	-39.3	-55.9	-53.9		-33.1	-21.25	11.8
	VHT160 STBC, M0.1 to M9.1	4	6	-39.3	-55.9	-53.9	-54.4	-32.9	-21.25	11.7
	Non HT20, 6 to 54 Mbps	1	6	-57.7				-51.7	-21.25	30.5
	Non HT20, 6 to 54 Mbps	2	6	-57.7	-56.7			-48.2	-21.25	26.9
	Non HT20, 6 to 54 Mbps	3	6	-57.7	-56.7	-56.1		-46.0	-21.25	24.8
0	Non HT20, 6 to 54 Mbps	4	6	-57.7	-56.7	-56.1	-57.1	-44.8	-21.25	23.6
5260	Non HT20 Beam Forming, 6 to 54 Mbps	2	9	-57.7	-56.7			-45.2	-21.25	23.9
۵)	Non HT20 Beam Forming, 6 to 54 Mbps	3	11	-57.7	-56.7	-56.1		-41.2	-21.25	20.0
	Non HT20 Beam Forming, 6 to 54 Mbps	4	12	-57.7	-56.7	-56.1	-57.1	-38.8	-21.25	17.6
	HT/VHT20, M0 to M7	1	6	-60.1				-54.1	-21.25	32.9
	HT/VHT20, M0 to M7	2	6	-60.1	-56.5			-48.9	-21.25	27.7

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HT/WHT20, M8 to M15											
HT/WHT20, M8 to M15		HT/VHT20, M8 to M15	2	6	-60.1	-56.5			-48.9	-21.25	27.7
HT/VHT20, M16 to M23		HT/VHT20, M0 to M7	3	6	-60.1	-56.5	-57.7		-47.1	-21.25	25.8
HT/VHT20, M0 to M7 HT/VHT20, M0 to M5 HT/VHT20, M16 to M23 HT/VHT20 Beam Forming, M0 to M7 2 9 -60.1 -56.5 -57.7 -57.3 -45.7 -21.25 24.4 HT/VHT20 Beam Forming, M16 to M15 2 6 -60.1 -56.57.7 -57.3 -45.7 -21.25 24.7 HT/VHT20 Beam Forming, M16 to M15 HT/VHT20 Beam Forming, M16 to M15 HT/VHT20 Beam Forming, M16 to M15 HT/VHT20 Beam Forming, M16 to M23 HT/VHT20 SEAM Forming, M16 to M23 HT/VHT20 SEAM FORMING HT/VHT20 STBC, M0 to M7 HT/VHT40, M0 to M15 HT/VHT40 Beam Forming, M0 to M17 HT/VHT40 Beam Forming, M0 to M15 HT/VHT40 Beam Forming, M0 to M15 HT/VHT40		HT/VHT20, M8 to M15	3	6	-60.1	-56.5	-57.7		-47.1	-21.25	25.8
HT/VHT20, M8 to M15		HT/VHT20, M16 to M23	3	6	-60.1	-56.5	-57.7		-47.1	-21.25	25.8
HT/VHT20, M16 to M23 HT/VHT20 Beam Forming, M0 to M7 HT/VHT20 Beam Forming, M16 to M23 HT/VHT20 STBC, M0 to M7 HT/VHT40, M1 to M23 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M1 to M15 HT/VHT40 Beam		HT/VHT20, M0 to M7	4	6	-60.1	-56.5	-57.7	-57.3	-45.7	-21.25	24.4
HT/VHT20 Beam Forming, M0 to M7 Part		HT/VHT20, M8 to M15	4	6	-60.1	-56.5	-57.7	-57.3	-45.7	-21.25	24.4
HT/VHT20 Beam Forming, M8 to M15 2 6 -60.1 -56.548.9 -21.25 27.7 HT/VHT20 Beam Forming, M0 to M7 3 11 -60.1 -56.5 -57.7 -42.3 -21.25 21.0 HT/VHT20 Beam Forming, M8 to M15 3 8 -60.1 -56.5 -57.7 -45.3 -21.25 24.0 HT/VHT20 Beam Forming, M8 to M23 3 6 -60.1 -56.5 -57.7 -47.1 -21.25 25.8 HT/VHT20 Beam Forming, M16 to M23 3 6 -60.1 -56.5 -57.7 -57.3 -39.7 -21.25 18.4 HT/VHT20 Beam Forming, M8 to M15 4 9 -60.1 -56.5 -57.7 -57.3 -39.7 -21.25 18.4 HT/VHT20 Beam Forming, M16 to M23 4 7 -60.1 -56.5 -57.7 -57.3 -44.5 -21.25 21.4 HT/VHT20 STBC, M0 to M7 2 6 -60.1 -56.5 -57.7 -57.3 -44.5 -21.25 22.4 HT/VHT20 STBC, M0 to M7 3 6 -60.1 -56.5 -57.7 -57.3 -44.5 -21.25 22.8 HT/VHT20 STBC, M0 to M7 3 6 -60.1 -56.5 -57.7 -57.3 -44.5 -21.25 22.8 HT/VHT20 STBC, M0 to M7 4 6 -60.1 -56.5 -57.7 -57.3 -44.5 -21.25 22.8 NON HT40, 6 to 54 Mbps 1 6 -47.4 -55.8 -57.7 -57.3 -45.7 -21.25 24.4 NON HT40, 6 to 54 Mbps 1 6 -47.4 -55.8 -57.3 -40.4 -21.25 19.2 NON HT40, 6 to 54 Mbps 3 6 -47.4 -55.8 -57.3 -40.4 -21.25 19.2 NON HT40, 6 to 54 Mbps 4 6 -47.4 -55.8 -57.3 -58.4 -40.2 -21.25 18.9 HT/VHT40, M0 to M7 1 6 -59.1 -58.8 -57.3 -58.4 -40.2 -21.25 18.9 HT/VHT40, M0 to M7 2 6 -59.1 -58.8 -57.3 -58.4 -40.2 -21.25 28.7 HT/VHT40, M0 to M7 3 6 -59.1 -58.8 -56.4 -47.2 -21.25 25.9 HT/VHT40, M0 to M7 4 6 -59.1 -58.8 -56.4 -47.2 -21.25 25.9 HT/VHT40, M0 to M3 3 6 -59.1 -58.8 -56.4 -47.2 -21.25 25.9 HT/VHT40, M0 to M3 4 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40, M0 to M3 4 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40, M16 to M23 4 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40 Beam Forming, M0 to M7 2 9 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40 Beam Forming, M16 to M23 3 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40 Beam Forming, M16 to M23 3 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40 Beam Forming, M16 to M23 3 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40 Beam Forming, M16 to M23 4 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0		HT/VHT20, M16 to M23	4	6	-60.1	-56.5	-57.7	-57.3	-45.7	-21.25	24.4
HT/VHT20 Beam Forming, M0 to M7		HT/VHT20 Beam Forming, M0 to M7	2	9	-60.1	-56.5			-45.9	-21.25	24.7
HT/VHT20 Beam Forming, M8 to M15		HT/VHT20 Beam Forming, M8 to M15	2	6	-60.1	-56.5			-48.9	-21.25	27.7
HT/VHT20 Beam Forming, M16 to M23 3 6 -60.1 -56.5 -57.7 -47.1 -21.25 25.8 HT/VHT20 Beam Forming, M0 to M7 4 12 -60.1 -56.5 -57.7 -57.3 -39.7 -21.25 18.4 HT/VHT20 Beam Forming, M8 to M15 4 9 -60.1 -56.5 -57.7 -57.3 -42.7 -21.25 21.4 HT/VHT20 Beam Forming, M16 to M23 4 7 -60.1 -56.5 -7.7 -57.3 -44.5 -21.25 23.2 HT/VHT20 STBC, M0 to M7 2 6 -60.1 -56.5 -7.7 -57.3 -44.5 -21.25 23.2 HT/VHT20 STBC, M0 to M7 3 6 -60.1 -56.5 -7.7 -57.3 -44.5 -21.25 25.8 HT/VHT20 STBC, M0 to M7 3 6 -60.1 -56.5 -7.7 -57.3 -45.7 -21.25 25.8 HT/VHT20 STBC, M0 to M7 4 6 -60.1 -56.5 -57.7 -57.3 -45.7 -21.25 25.8 Non HT40, 6 to 54 Mbps 1 6 -47.4 -55.8 -7.7 -57.3 -45.7 -21.25 20.2 Non HT40, 6 to 54 Mbps 2 6 -47.4 -55.8 -7.3 -40.4 -21.25 19.6 Non HT40, 6 to 54 Mbps 3 6 -47.4 -55.8 -57.3 -40.4 -21.25 19.6 Non HT40, 6 to 54 Mbps 4 6 -47.4 -55.8 -57.3 -40.4 -21.25 19.2 Non HT40, 6 to 54 Mbps 4 6 -47.4 -55.8 -57.3 -58.4 -40.2 -21.25 18.9 HT/VHT40, M0 to M7 1 6 -59.1 -58.8 -5.3 -58.4 -40.2 -21.25 18.9 HT/VHT40, M0 to M7 2 6 -59.1 -58.8 -6.4 -49.9 -21.25 28.7 HT/VHT40, M0 to M7 3 6 -59.1 -58.8 -56.4 -47.2 -21.25 25.9 HT/VHT40, M16 to M23 3 6 -59.1 -58.8 -56.4 -47.2 -21.25 25.9 HT/VHT40, M16 to M23 4 6 -59.1 -58.8 -56.4 -47.2 -21.25 20.0 HT/VHT40, M16 to M23 4 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40, M16 to M23 4 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40, M16 to M23 4 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40, M16 to M23 4 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40 Beam Forming, M0 to M7 3 1 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40 Beam Forming, M8 to M15 3 8 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40 Beam Forming, M8 to M15 3 8 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40 Beam Forming, M8 to M15 3 8 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40 Beam Forming, M8 to M15 3 8 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40 Beam Forming, M1 to M23 3 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40 Beam Forming, M1 to M23		HT/VHT20 Beam Forming, M0 to M7	3	11	-60.1	-56.5	-57.7		-42.3	-21.25	21.0
HT/VHT20 Beam Forming, M0 to M7		HT/VHT20 Beam Forming, M8 to M15	3	8	-60.1	-56.5	-57.7		-45.3	-21.25	24.0
HT/VHT20 Beam Forming, M8 to M15		HT/VHT20 Beam Forming, M16 to M23	3	6	-60.1	-56.5	-57.7		-47.1	-21.25	25.8
HT/VHT20 Beam Forming, M16 to M23 HT/VHT20 STBC, M0 to M7 2 6 -60.1 -56.5 -57.7 -57.3 -44.5 -21.25 23.2 HT/VHT20 STBC, M0 to M7 3 6 -60.1 -56.5 -57.7 -47.1 -21.25 25.8 HT/VHT20 STBC, M0 to M7 4 6 -60.1 -56.5 -57.7 -47.1 -21.25 25.8 HT/VHT20 STBC, M0 to M7 4 6 -60.1 -56.5 -57.7 -57.3 -45.7 -21.25 24.4 NON HT40, 6 to 54 Mbps 1 6 -47.4 -55.8 -57.7 -57.3 -45.7 -21.25 20.2 NON HT40, 6 to 54 Mbps 2 6 -47.4 -55.8 -57.3 -40.4 -21.25 19.6 NON HT40, 6 to 54 Mbps 3 6 -47.4 -55.8 -57.3 -40.4 -21.25 19.2 NON HT40, 6 to 54 Mbps 4 6 -47.4 -55.8 -57.3 -58.4 -40.2 -21.25 19.2 NON HT40, 6 to 54 Mbps 4 6 -47.4 -55.8 -57.3 -58.4 -40.2 -21.25 19.2 NON HT40, M0 to M7 1 6 -59.1 -58.8 -57.3 -58.4 -40.2 -21.25 18.9 HT/VHT40, M0 to M7 2 6 -59.1 -58.8 -57.3 -58.4 -49.9 -21.25 28.7 HT/VHT40, M8 to M15 2 6 -59.1 -58.8 -56.4 -49.9 -21.25 25.9 HT/VHT40, M16 to M23 3 6 -59.1 -58.8 -56.4 -47.2 -21.25 25.9 HT/VHT40, M16 to M23 3 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40, M16 to M23 4 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40, M16 to M23 4 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40, M16 to M23 4 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40, M16 to M23 4 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40, M16 to M23 4 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40, M16 to M23 4 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40 Beam Forming, M0 to M7 4 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40 Beam Forming, M0 to M7 3 11 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 25.7 HT/VHT40 Beam Forming, M0 to M7 3 11 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 25.7 HT/VHT40 Beam Forming, M16 to M23 3 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 25.7 HT/VHT40 Beam Forming, M16 to M23 3 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 25.7 HT/VHT40 Beam Forming, M16 to M23 3 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 25.7 HT/VHT40 Beam Forming, M16 to M23 3 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 25.9 HT/VHT40 Beam Forming, M16 to M23 3 6 -59.1 -58.8 -56.4 -48.6 -48.6 -41.3 -21.		HT/VHT20 Beam Forming, M0 to M7	4	12	-60.1	-56.5	-57.7	-57.3	-39.7	-21.25	18.4
HT/VHT20 STBC, M0 to M7 A		HT/VHT20 Beam Forming, M8 to M15	4	9	-60.1	-56.5	-57.7	-57.3	-42.7	-21.25	21.4
HT/VHT20 STBC, M0 to M7		HT/VHT20 Beam Forming, M16 to M23	4	7	-60.1	-56.5	-57.7	-57.3	-44.5	-21.25	23.2
Non HT40, 6 to 54 Mbps		HT/VHT20 STBC, M0 to M7	2	6	-60.1	-56.5			-48.9	-21.25	27.7
Non HT40, 6 to 54 Mbps		HT/VHT20 STBC, M0 to M7	3	6	-60.1	-56.5	-57.7		-47.1	-21.25	25.8
Non HT40, 6 to 54 Mbps 2 6 -47.4 -55.8 -57.3 -40.4 -21.25 19.6 Non HT40, 6 to 54 Mbps 3 6 -47.4 -55.8 -57.3 -40.4 -21.25 19.2 Non HT40, 6 to 54 Mbps 4 6 -47.4 -55.8 -57.3 -58.4 -40.2 -21.25 18.9 HT/VHT40, M0 to M7 1 6 -59.1 -58.8 -57.3 -58.4 -40.2 -21.25 31.9 HT/VHT40, M0 to M7 2 6 -59.1 -58.8 -56.4 -49.9 -21.25 28.7 HT/VHT40, M8 to M15 2 6 -59.1 -58.8 -56.4 -47.2 -21.25 25.9 HT/VHT40, M8 to M15 3 6 -59.1 -58.8 -56.4 -47.2 -21.25 25.9 HT/VHT40, M16 to M23 3 6 -59.1 -58.8 -56.4 -47.2 -21.25 25.9 HT/VHT40, M0 to M7 4 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40, M16 to M23 4 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40, M8 to M15 4 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40, M16 to M23 4 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40, M16 to M23 4 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40, M16 to M23 4 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40, M16 to M23 4 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40 Beam Forming, M0 to M7 2 9 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 25.7 HT/VHT40 Beam Forming, M8 to M15 2 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 25.7 HT/VHT40 Beam Forming, M8 to M15 3 8 -59.1 -58.8 -56.4 -48.6 -42.4 -21.25 21.1 HT/VHT40 Beam Forming, M8 to M15 3 8 -59.1 -58.8 -56.4 -48.6 -35.3 -21.25 24.1 HT/VHT40 Beam Forming, M16 to M23 3 6 -59.1 -58.8 -56.4 -48.6 -42.4 -21.25 21.1 HT/VHT40 Beam Forming, M16 to M23 3 6 -59.1 -58.8 -56.4 -48.6 -43.3 -21.25 25.9 HT/VHT40 Beam Forming, M16 to M23 3 6 -59.1 -58.8 -56.4 -48.6 -43.3 -21.25 25.9 HT/VHT40 Beam Forming, M16 to M23 4 12 -59.1 -58.8 -56.4 -48.6 -35.3 -21.25 14.0		HT/VHT20 STBC, M0 to M7	4	6	-60.1	-56.5	-57.7	-57.3	-45.7	-21.25	24.4
Non HT40, 6 to 54 Mbps 2 6 -47.4 -55.8 -57.3 -40.4 -21.25 19.6 Non HT40, 6 to 54 Mbps 3 6 -47.4 -55.8 -57.3 -40.4 -21.25 19.2 Non HT40, 6 to 54 Mbps 4 6 -47.4 -55.8 -57.3 -58.4 -40.2 -21.25 18.9 HT/VHT40, M0 to M7 1 6 -59.1 -58.8 -57.3 -58.4 -40.2 -21.25 31.9 HT/VHT40, M0 to M7 2 6 -59.1 -58.8 -56.4 -49.9 -21.25 28.7 HT/VHT40, M8 to M15 2 6 -59.1 -58.8 -56.4 -47.2 -21.25 25.9 HT/VHT40, M8 to M15 3 6 -59.1 -58.8 -56.4 -47.2 -21.25 25.9 HT/VHT40, M16 to M23 3 6 -59.1 -58.8 -56.4 -47.2 -21.25 25.9 HT/VHT40, M0 to M7 4 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40, M16 to M23 4 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40, M8 to M15 4 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40, M16 to M23 4 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40, M16 to M23 4 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40, M16 to M23 4 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40, M16 to M23 4 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40 Beam Forming, M0 to M7 2 9 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 25.7 HT/VHT40 Beam Forming, M8 to M15 2 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 25.7 HT/VHT40 Beam Forming, M8 to M15 3 8 -59.1 -58.8 -56.4 -48.6 -42.4 -21.25 21.1 HT/VHT40 Beam Forming, M8 to M15 3 8 -59.1 -58.8 -56.4 -48.6 -35.3 -21.25 24.1 HT/VHT40 Beam Forming, M16 to M23 3 6 -59.1 -58.8 -56.4 -48.6 -42.4 -21.25 21.1 HT/VHT40 Beam Forming, M16 to M23 3 6 -59.1 -58.8 -56.4 -48.6 -43.3 -21.25 25.9 HT/VHT40 Beam Forming, M16 to M23 3 6 -59.1 -58.8 -56.4 -48.6 -43.3 -21.25 25.9 HT/VHT40 Beam Forming, M16 to M23 4 12 -59.1 -58.8 -56.4 -48.6 -35.3 -21.25 14.0				_	_	_	_	_	_	-	_
Non HT40, 6 to 54 Mbps 3 6 -47.4 -55.8 -57.3 -40.4 -21.25 19.2		Non HT40, 6 to 54 Mbps	1	6	-47.4				-41.4	-21.25	20.2
Non HT40, 6 to 54 Mbps		Non HT40, 6 to 54 Mbps	2	6	-47.4	-55.8			-40.8	-21.25	19.6
HT/VHT40, M0 to M7 1 6 -59.1		Non HT40, 6 to 54 Mbps	3	6	-47.4	-55.8	-57.3		-40.4	-21.25	19.2
HT/VHT40, M0 to M7 2 6 -59.1 -58.8 -49.9 -21.25 28.7 HT/VHT40, M8 to M15 2 6 -59.1 -58.8 -56.4 -49.9 -21.25 28.7 HT/VHT40, M8 to M15 3 6 -59.1 -58.8 -56.4 -47.2 -21.25 25.9 HT/VHT40, M8 to M15 3 6 -59.1 -58.8 -56.4 -47.2 -21.25 25.9 HT/VHT40, M16 to M23 3 6 -59.1 -58.8 -56.4 -47.2 -21.25 25.9 HT/VHT40, M0 to M7 4 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40, M8 to M15 4 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40, M16 to M23 4 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40 Beam Forming, M0 to M7 2 9 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40 Beam Forming, M8 to M15 2 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 25.7 HT/VHT40 Beam Forming, M8 to M15 3 11 -59.1 -58.8 -56.4 -48.6 -42.4 -21.25 21.1 HT/VHT40 Beam Forming, M8 to M15 3 8 -59.1 -58.8 -56.4 -42.4 -21.25 24.1 HT/VHT40 Beam Forming, M16 to M23 3 6 -59.1 -58.8 -56.4 -48.6 -47.2 -21.25 24.1 HT/VHT40 Beam Forming, M16 to M23 3 6 -59.1 -58.8 -56.4 -48.6 -47.2 -21.25 25.9 HT/VHT40 Beam Forming, M16 to M23 3 6 -59.1 -58.8 -56.4 -48.6 -47.2 -21.25 24.1 HT/VHT40 Beam Forming, M16 to M23 3 6 -59.1 -58.8 -56.4 -48.6 -35.3 -21.25 14.0		Non HT40, 6 to 54 Mbps	4	6	-47.4	-55.8	-57.3	-58.4	-40.2	-21.25	18.9
HT/VHT40, M8 to M15 2 6 -59.1 -58.8 -6.4 -49.9 -21.25 28.7 HT/VHT40, M0 to M7 3 6 -59.1 -58.8 -56.4 -47.2 -21.25 25.9 HT/VHT40, M8 to M15 3 6 -59.1 -58.8 -56.4 -47.2 -21.25 25.9 HT/VHT40, M16 to M23 3 6 -59.1 -58.8 -56.4 -47.2 -21.25 25.9 HT/VHT40, M0 to M7 4 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40, M8 to M15 4 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40, M16 to M23 4 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40 Beam Forming, M0 to M7 2 9 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40 Beam Forming, M8 to M15 2 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 25.7 HT/VHT40 Beam Forming, M8 to M15 3 11 -59.1 -58.8 -56.4 -49.9 -21.25 28.7 HT/VHT40 Beam Forming, M8 to M15 3 8 -59.1 -58.8 -56.4 -42.4 -21.25 21.1 HT/VHT40 Beam Forming, M8 to M15 3 8 -59.1 -58.8 -56.4 -48.6 -35.3 -21.25 24.1 HT/VHT40 Beam Forming, M16 to M23 3 6 -59.1 -58.8 -56.4 -48.6 -35.3 -21.25 14.0		HT/VHT40, M0 to M7	1	6	-59.1				-53.1	-21.25	31.9
HT/VHT40, M0 to M7 HT/VHT40, M8 to M15 HT/VHT40, M8 to M23 HT/VHT40, M0 to M7 HT/VHT40, M0 to M7 HT/VHT40, M8 to M15 HT/VHT40, M8 to M23 HT/VHT40, M8 to M15 HT/VHT40, M8 to M23 HT/VHT40, M8 to M23 HT/VHT40, M8 to M23 HT/VHT40, M8 to M23 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 Beam Forming, M16 to M23 HT/VHT40 Beam Forming, M16 to M23 HT/VHT40 Beam Forming, M16 to M23 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M16 to M23 HT/VHT40 Beam Forming, M16 to M23 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M16 to M23		HT/VHT40, M0 to M7	2	6	-59.1	-58.8			-49.9	-21.25	28.7
HT/VHT40, M8 to M15 HT/VHT40, M8 to M23 HT/VHT40, M16 to M23 HT/VHT40, M0 to M7 HT/VHT40, M0 to M7 HT/VHT40, M8 to M15 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 Beam Forming, M16 to M23 HT/VHT40 Beam Forming, M16 to M23 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M16 to M23 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M16 to M23 HT/VHT40 Beam Forming, M16 to M23 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M16 to M23 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M16 to M23 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M16 to M23 HT/VH		HT/VHT40, M8 to M15	2	6	-59.1	-58.8			-49.9	-21.25	28.7
HT/VHT40, M16 to M23 HT/VHT40, M0 to M7 HT/VHT40, M0 to M7 HT/VHT40, M8 to M15 HT/VHT40, M16 to M23 HT/VHT40, M8 to M15 HT/VHT40, M16 to M23 HT/VHT40, M16 to M23 HT/VHT40, M16 to M23 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 Beam Forming, M16 to M23 HT/VHT40 Beam Forming, M16 to M23 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M16 to M23 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M16 to M23 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M16 to M23 HT/VHT40 Beam Forming, M16 to M23 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M0 to M7		HT/VHT40, M0 to M7	3	6	-59.1	-58.8	-56.4		-47.2	-21.25	25.9
HT/VHT40, M0 to M7 4 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40, M8 to M15 4 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40, M16 to M23 4 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40 Beam Forming, M0 to M7 2 9 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 25.7 HT/VHT40 Beam Forming, M8 to M15 2 6 -59.1 -58.8 -56.4 -49.9 -21.25 28.7 HT/VHT40 Beam Forming, M0 to M7 3 11 -59.1 -58.8 -56.4 -42.4 -21.25 21.1 HT/VHT40 Beam Forming, M8 to M15 3 8 -59.1 -58.8 -56.4 -45.4 -21.25 24.1 HT/VHT40 Beam Forming, M16 to M23 3 6 -59.1 -58.8 -56.4 -48.6 -35.3 -21.25 14.0		HT/VHT40, M8 to M15	3	6	-59.1	-58.8	-56.4		-47.2	-21.25	25.9
HT/VHT40, M8 to M15 4 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40, M16 to M23 4 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40 Beam Forming, M0 to M7 2 9 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 25.7 HT/VHT40 Beam Forming, M8 to M15 2 6 -59.1 -58.8 -56.4 -49.9 -21.25 28.7 HT/VHT40 Beam Forming, M0 to M7 3 11 -59.1 -58.8 -56.4 -42.4 -21.25 21.1 HT/VHT40 Beam Forming, M8 to M15 3 8 -59.1 -58.8 -56.4 -45.4 -21.25 24.1 HT/VHT40 Beam Forming, M16 to M23 3 6 -59.1 -58.8 -56.4 -47.2 -21.25 25.9 HT/VHT40 Beam Forming, M0 to M7 4 12 -59.1 -58.8 -56.4 -48.6 -35.3 -21.25 14.0		HT/VHT40, M16 to M23	3	6	-59.1	-58.8	-56.4		-47.2	-21.25	25.9
HT/VHT40, M16 to M23 4 6 -59.1 -58.8 -56.4 -48.6 -41.3 -21.25 20.0 HT/VHT40 Beam Forming, M0 to M7 2 9 -59.1 -58.8 -46.9 -21.25 25.7 HT/VHT40 Beam Forming, M8 to M15 2 6 -59.1 -58.8 -56.4 -49.9 -21.25 28.7 HT/VHT40 Beam Forming, M0 to M7 3 11 -59.1 -58.8 -56.4 -42.4 -21.25 21.1 HT/VHT40 Beam Forming, M8 to M15 3 8 -59.1 -58.8 -56.4 -45.4 -21.25 24.1 HT/VHT40 Beam Forming, M16 to M23 3 6 -59.1 -58.8 -56.4 -47.2 -21.25 25.9 HT/VHT40 Beam Forming, M0 to M7 4 12 -59.1 -58.8 -56.4 -48.6 -35.3 -21.25 14.0	70	HT/VHT40, M0 to M7	4	6	-59.1	-58.8	-56.4	-48.6	-41.3	-21.25	20.0
HT/VHT40 Beam Forming, M0 to M7 2 9 -59.1 -58.8 -46.9 -21.25 25.7 HT/VHT40 Beam Forming, M8 to M15 2 6 -59.1 -58.8 -49.9 -21.25 28.7 HT/VHT40 Beam Forming, M0 to M7 3 11 -59.1 -58.8 -56.4 -42.4 -21.25 21.1 HT/VHT40 Beam Forming, M8 to M15 3 8 -59.1 -58.8 -56.4 -47.2 -21.25 24.1 HT/VHT40 Beam Forming, M16 to M23 3 6 -59.1 -58.8 -56.4 -47.2 -21.25 25.9 HT/VHT40 Beam Forming, M0 to M7 4 12 -59.1 -58.8 -56.4 -48.6 -35.3 -21.25 14.0	52	HT/VHT40, M8 to M15	4	6	-59.1	-58.8	-56.4	-48.6	-41.3	-21.25	20.0
HT/VHT40 Beam Forming, M8 to M15 2 6 -59.1 -58.8 -49.9 -21.25 28.7 HT/VHT40 Beam Forming, M0 to M7 3 11 -59.1 -58.8 -56.4 -42.4 -21.25 21.1 HT/VHT40 Beam Forming, M8 to M15 3 8 -59.1 -58.8 -56.4 -45.4 -21.25 24.1 HT/VHT40 Beam Forming, M16 to M23 3 6 -59.1 -58.8 -56.4 -47.2 -21.25 25.9 HT/VHT40 Beam Forming, M0 to M7 4 12 -59.1 -58.8 -56.4 -48.6 -35.3 -21.25 14.0		HT/VHT40, M16 to M23	4	6	-59.1	-58.8	-56.4	-48.6	-41.3	-21.25	20.0
HT/VHT40 Beam Forming, M0 to M7 3 11 -59.1 -58.8 -56.4 -42.4 -21.25 21.1 HT/VHT40 Beam Forming, M8 to M15 3 8 -59.1 -58.8 -56.4 -45.4 -21.25 24.1 HT/VHT40 Beam Forming, M16 to M23 3 6 -59.1 -58.8 -56.4 -47.2 -21.25 25.9 HT/VHT40 Beam Forming, M0 to M7 4 12 -59.1 -58.8 -56.4 -48.6 -35.3 -21.25 14.0		HT/VHT40 Beam Forming, M0 to M7	2	9	-59.1	-58.8			-46.9	-21.25	25.7
HT/VHT40 Beam Forming, M8 to M15 3 8 -59.1 -58.8 -56.4 -45.4 -21.25 24.1 HT/VHT40 Beam Forming, M16 to M23 3 6 -59.1 -58.8 -56.4 -47.2 -21.25 25.9 HT/VHT40 Beam Forming, M0 to M7 4 12 -59.1 -58.8 -56.4 -48.6 -35.3 -21.25 14.0		HT/VHT40 Beam Forming, M8 to M15	2	6	-59.1	-58.8			-49.9	-21.25	28.7
HT/VHT40 Beam Forming, M16 to M23 3 6 -59.1 -58.8 -56.4 -47.2 -21.25 25.9 HT/VHT40 Beam Forming, M0 to M7 4 12 -59.1 -58.8 -56.4 -48.6 -35.3 -21.25 14.0		HT/VHT40 Beam Forming, M0 to M7	3	11	-59.1	-58.8	-56.4		-42.4	-21.25	21.1
HT/VHT40 Beam Forming, M0 to M7 4 12 -59.1 -58.8 -56.4 -48.6 -35.3 -21.25 14.0		HT/VHT40 Beam Forming, M8 to M15	3	8	-59.1	-58.8	-56.4		-45.4	-21.25	24.1
		HT/VHT40 Beam Forming, M16 to M23	3	6	-59.1	-58.8	-56.4		-47.2	-21.25	25.9
HT/VHT40 Beam Forming, M8 to M15 4 9 -59.1 -58.8 -56.4 -48.6 -38.3 -21.25 17.0		HT/VHT40 Beam Forming, M0 to M7	4	12	-59.1	-58.8	-56.4	-48.6	-35.3	-21.25	14.0
		HT/VHT40 Beam Forming, M8 to M15	4	9	-59.1	-58.8	-56.4	-48.6	-38.3	-21.25	17.0
HT/VHT40 Beam Forming, M16 to M23 4 7 -59.1 -58.8 -56.4 -48.6 -40.1 -21.25 18.8		HT/VHT40 Beam Forming, M16 to M23	4	7	-59.1	-58.8	-56.4	-48.6	-40.1	-21.25	18.8
HT/VHT40 STBC, M0 to M7 2 6 -59.1 -58.8 -49.9 -21.25 28.7		HT/VHT40 STBC, M0 to M7	2	6	-59.1	-58.8			-49.9	-21.25	28.7

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HT/VHT40 STBC, M0 to M7													
Non HT80, 6 to 54 Mbps 1		HT/VHT40 STBC, M0 to M7	3	6	-59.1	-58.8	-56.4		-47.2	-21.25	25.9		
Non HT80, 6 to 54 Mbps		HT/VHT40 STBC, M0 to M7	4	6	-59.1	-58.8	-56.4	-48.6	-41.3	-21.25	20.0		
Non HT80, 6 to 54 Mbps													
Non HT80, 6 to 54 Mbps		Non HT80, 6 to 54 Mbps	1	6	-41.5				-35.5	-21.25	14.3		
Non HT80, 6 to 54 Mbps		Non HT80, 6 to 54 Mbps	2	6	-41.5	-44.4			-33.7	-21.25	12.5		
VHT80, M0.1 to M9.1		Non HT80, 6 to 54 Mbps	3	6	-41.5	-44.4	-43.6		-32.2	-21.25	11.0		
VHT80, M0.1 to M9.1		Non HT80, 6 to 54 Mbps	4	6	-41.5	-44.4	-43.6	-43.3	-31.0	-21.25	9.8		
VHT80, M0.2 to M9.2		VHT80, M0.1 to M9.1	1	6	-57.7				-51.7	-21.25	30.5		
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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, M0.1 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, M0.3 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 STBC, M0.1 to M9.1 VHT80 STBC, M0.1 to M0.3 to M0.3 to M0.3 to M0.3 to M0.3 to M0		VHT80, M0.2 to M9.2	3	6	-57.7	-58.3	-50.0		-42.8	-21.25	21.6		
NHT80, M0.2 to M9.2		VHT80, M0.3 to M9.3	3	6	-57.7	-58.3	-50.0		-42.8	-21.25	21.6		
NHT80, M0.2 to M9.2			4	6		-58.3	-50.0	-46.5	_	-21.25			
NHT80, M0.3 to M9.3	90	VHT80, M0.2 to M9.2	4	6	_	_	-50.0	-46.5		-21.25			
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HT/VHT20, M8 to M15 3 6 -48.1 -56.5 -48.8 -39.1 -21.25 17.8			+ +				-48.8				1		
			-	1		1	1		1	1			
			1 1			1	1						

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	HT/VHT20, M0 to M7	4	6	-48.1	-56.5	-48.8	-55.9	-38.8	-21.25	17.5
	HT/VHT20, M8 to M15	4	6	-48.1	-56.5	-48.8	-55.9	-38.8	-21.25	17.5
	HT/VHT20, M16 to M23	4	6	-48.1	-56.5	-48.8	-55.9	-38.8	-21.25	17.5
	HT/VHT20 Beam Forming, M0 to M7	2	9	-48.1	-56.5			-38.5	-21.25	17.3
	HT/VHT20 Beam Forming, M8 to M15	2	6	-48.1	-56.5			-41.5	-21.25	20.3
	HT/VHT20 Beam Forming, M0 to M7	3	11	-48.1	-56.5	-48.8		-34.3	-21.25	13.0
	HT/VHT20 Beam Forming, M8 to M15	3	8	-48.1	-56.5	-48.8		-37.3	-21.25	16.0
	HT/VHT20 Beam Forming, M16 to M23	3	6	-48.1	-56.5	-48.8		-39.1	-21.25	17.8
	HT/VHT20 Beam Forming, M0 to M7	4	12	-48.1	-56.5	-48.8	-55.9	-32.8	-21.25	11.5
	HT/VHT20 Beam Forming, M8 to M15	4	9	-48.1	-56.5	-48.8	-55.9	-35.8	-21.25	14.5
	HT/VHT20 Beam Forming, M16 to M23	4	7	-48.1	-56.5	-48.8	-55.9	-37.6	-21.25	16.3
	HT/VHT20 STBC, M0 to M7	2	6	-48.1	-56.5			-41.5	-21.25	20.3
	HT/VHT20 STBC, M0 to M7	3	6	-48.1	-56.5	-48.8		-39.1	-21.25	17.8
	HT/VHT20 STBC, M0 to M7	4	6	-48.1	-56.5	-48.8	-55.9	-38.8	-21.25	17.5
	Non HT20, 6 to 54 Mbps	1	6	-56.5				-50.5	-21.25	29.3
	Non HT20, 6 to 54 Mbps	2	6	-56.5	-57.7			-48.0	-21.25	26.8
	Non HT20, 6 to 54 Mbps	3	6	-56.5	-57.7	-49.6		-42.3	-21.25	21.0
	Non HT20, 6 to 54 Mbps	4	6	-56.5	-57.7	-49.6	-57.1	-41.7	-21.25	20.5
	Non HT20 Beam Forming, 6 to 54 Mbps	2	9	-56.5	-57.7			-45.0	-21.25	23.8
	Non HT20 Beam Forming, 6 to 54 Mbps	3	11	-56.5	-57.7	-49.6		-37.5	-21.25	16.2
	Non HT20 Beam Forming, 6 to 54 Mbps	4	12	-56.5	-57.7	-49.6	-57.1	-35.7	-21.25	14.5
	HT/VHT20, M0 to M7	1	6	-48.3				-42.3	-21.25	21.1
	HT/VHT20, M0 to M7	2	6	-48.3	-58.5			-41.9	-21.25	20.7
	HT/VHT20, M8 to M15	2	6	-48.3	-58.5			-41.9	-21.25	20.7
	HT/VHT20, M0 to M7	3	6	-48.3	-58.5	-56.6		-41.4	-21.25	20.1
	HT/VHT20, M8 to M15	3	6	-48.3	-58.5	-56.6		-41.4	-21.25	20.1
5300	HT/VHT20, M16 to M23	3	6	-48.3	-58.5	-56.6		-41.4	-21.25	20.1
53	HT/VHT20, M0 to M7	4	6	-48.3	-58.5	-56.6	-57.3	-40.9	-21.25	19.7
	HT/VHT20, M8 to M15	4	6	-48.3	-58.5	-56.6	-57.3	-40.9	-21.25	19.7
	HT/VHT20, M16 to M23	4	6	-48.3	-58.5	-56.6	-57.3	-40.9	-21.25	19.7
	HT/VHT20 Beam Forming, M0 to M7	2	9	-48.3	-58.5			-38.9	-21.25	17.7
	HT/VHT20 Beam Forming, M8 to M15	2	6	-48.3	-58.5			-41.9	-21.25	20.7
	HT/VHT20 Beam Forming, M0 to M7	3	11	-48.3	-58.5	-56.6		-36.6	-21.25	15.3
	HT/VHT20 Beam Forming, M8 to M15	3	8	-48.3	-58.5	-56.6		-39.6	-21.25	18.3
	HT/VHT20 Beam Forming, M16 to M23	3	6	-48.3	-58.5	-56.6		-41.4	-21.25	20.1
	HT/VHT20 Beam Forming, M0 to M7	4	12	-48.3	-58.5	-56.6	-57.3	-34.9	-21.25	13.7
	HT/VHT20 Beam Forming, M8 to M15	4	9	-48.3	-58.5	-56.6	-57.3	-37.9	-21.25	16.7
	HT/VHT20 Beam Forming, M16 to M23	4	7	-48.3	-58.5	-56.6	-57.3	-39.7	-21.25	18.5
	HT/VHT20 STBC, M0 to M7	2	6	-48.3	-58.5			-41.9	-21.25	20.7
	HT/VHT20 STBC, M0 to M7	3	6	-48.3	-58.5	-56.6		-41.4	-21.25	20.1

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	HT/VHT20 STBC, M0 to M7	4	6	-48.3	-58.5	-56.6	-57.3	-40.9	-21.25	19.7
	Non HT40, 6 to 54 Mbps	1	6	-55.5				-49.5	-21.25	28.3
	Non HT40, 6 to 54 Mbps	2	6	-55.5	-48.2			-41.5	-21.25	20.2
	Non HT40, 6 to 54 Mbps	3	6	-55.5	-48.2	-57.5		-41.0	-21.25	19.8
	Non HT40, 6 to 54 Mbps	4	6	-55.5	-48.2	-57.5	-56.6	-40.6	-21.25	19.3
	HT/VHT40, M0 to M7	1	6	-47.1				-41.1	-21.25	19.9
	HT/VHT40, M0 to M7	2	6	-47.1	-56.3			-40.6	-21.25	19.4
	HT/VHT40, M8 to M15	2	6	-47.1	-56.3			-40.6	-21.25	19.4
	HT/VHT40, M0 to M7	3	6	-47.1	-56.3	-49.1		-38.7	-21.25	17.4
	HT/VHT40, M8 to M15	3	6	-47.1	-56.3	-49.1		-38.7	-21.25	17.4
	HT/VHT40, M16 to M23	3	6	-47.1	-56.3	-49.1		-38.7	-21.25	17.4
	HT/VHT40, M0 to M7	4	6	-47.1	-56.3	-49.1	-57.1	-38.4	-21.25	17.2
01	HT/VHT40, M8 to M15	4	6	-47.1	-56.3	-49.1	-57.1	-38.4	-21.25	17.2
5310	HT/VHT40, M16 to M23	4	6	-47.1	-56.3	-49.1	-57.1	-38.4	-21.25	17.2
	HT/VHT40 Beam Forming, M0 to M7	2	9	-47.1	-56.3			-37.6	-21.25	16.4
	HT/VHT40 Beam Forming, M8 to M15	2	6	-47.1	-56.3			-40.6	-21.25	19.4
	HT/VHT40 Beam Forming, M0 to M7	3	11	-47.1	-56.3	-49.1		-33.9	-21.25	12.6
	HT/VHT40 Beam Forming, M8 to M15	3	8	-47.1	-56.3	-49.1		-36.9	-21.25	15.6
	HT/VHT40 Beam Forming, M16 to M23	3	6	-47.1	-56.3	-49.1		-38.7	-21.25	17.4
	HT/VHT40 Beam Forming, M0 to M7	4	12	-47.1	-56.3	-49.1	-57.1	-32.4	-21.25	11.2
	HT/VHT40 Beam Forming, M8 to M15	4	9	-47.1	-56.3	-49.1	-57.1	-35.4	-21.25	14.2
	HT/VHT40 Beam Forming, M16 to M23	4	7	-47.1	-56.3	-49.1	-57.1	-37.2	-21.25	16.0
	HT/VHT40 STBC, M0 to M7	2	6	-47.1	-56.3			-40.6	-21.25	19.4
	HT/VHT40 STBC, M0 to M7	3	6	-47.1	-56.3	-49.1		-38.7	-21.25	17.4
	HT/VHT40 STBC, M0 to M7	4	6	-47.1	-56.3	-49.1	-57.1	-38.4	-21.25	17.2
	111, 1111 10 0.20,									
	Non HT20, 6 to 54 Mbps	1	6	-47.1				-41.1	-21.25	19.9
	Non HT20, 6 to 54 Mbps	2	6	-47.1	-57.7			-40.7	-21.25	19.5
	Non HT20, 6 to 54 Mbps	3	6	-47.1	-57.7	-49.0		-38.7	-21.25	17.5
	Non HT20, 6 to 54 Mbps	4	6	-47.1	-57.7	-49.0	-54.5	-38.3	-21.25	17.0
	Non HT20 Beam Forming, 6 to 54 Mbps	2	9	-47.1	-57.7			-37.7	-21.25	16.5
	Non HT20 Beam Forming, 6 to 54 Mbps	3	11	-47.1	-57.7	-49.0		-33.9	-21.25	12.7
0	Non HT20 Beam Forming, 6 to 54 Mbps	4	12	-47.1	-57.7	-49.0	-54.5	-32.3	-21.25	11.0
5320	HT/VHT20, M0 to M7	1	6	-47.1	37	75.5		-41.1	-21.25	19.9
	HT/VHT20, M0 to M7	2	6	-47.1	-48.8			-38.9	-21.25	17.6
	HT/VHT20, M8 to M15	2	6	-47.1	-48.8			-38.9	-21.25	17.6
	HT/VHT20, M0 to M7	3	6	-47.1	-48.8	-50.4		-37.8	-21.25	16.5
	HT/VHT20, M8 to M15	3	6	-47.1	-48.8	-50.4		-37.8	-21.25	16.5
	HT/VHT20, M8 to M13	3	6	-47.1	-48.8	-50.4		-37.8	-21.25	16.5
	HT/VHT20, M16 to M25	4	6	-47.1	-48.8	-50.4	-47.5	-36.2	-21.25	15.0
	11/ V1120, IVIO to IVI/	4		-4/.1	-40.0	-30.4	-47.5	-30.2	-21.23	13.0

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HT/VHT20, M8 to M15	4	6	-47.1	-48.8	-50.4	-47.5	-36.2	-21.25	15.0
HT/VHT20, M16 to M23	4	6	-47.1	-48.8	-50.4	-47.5	-36.2	-21.25	15.0
HT/VHT20 Beam Forming, M0 to M7	2	9	-47.1	-48.8			-35.9	-21.25	14.6
HT/VHT20 Beam Forming, M8 to M15	2	6	-47.1	-48.8			-38.9	-21.25	17.6
HT/VHT20 Beam Forming, M0 to M7	3	11	-47.1	-48.8	-50.4		-33.0	-21.25	11.7
HT/VHT20 Beam Forming, M8 to M15	3	8	-47.1	-48.8	-50.4		-36.0	-21.25	14.7
HT/VHT20 Beam Forming, M16 to M23	3	6	-47.1	-48.8	-50.4		-37.8	-21.25	16.5
HT/VHT20 Beam Forming, M0 to M7	4	12	-47.1	-48.8	-50.4	-47.5	-30.2	-21.25	9.0
HT/VHT20 Beam Forming, M8 to M15	4	9	-47.1	-48.8	-50.4	-47.5	-33.2	-21.25	12.0
HT/VHT20 Beam Forming, M16 to M23	4	7	-47.1	-48.8	-50.4	-47.5	-35.0	-21.25	13.8
HT/VHT20 STBC, M0 to M7	2	6	-47.1	-48.8			-38.9	-21.25	17.6
HT/VHT20 STBC, M0 to M7	3	6	-47.1	-48.8	-50.4		-37.8	-21.25	16.5
HT/VHT20 STBC, M0 to M7	4	6	-47.1	-48.8	-50.4	-47.5	-36.2	-21.25	15.0

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Conducted Spurs Peak, All Antennas



No emissions seen above 18GHz. The plots above are representative of all modes tested.



Conducted Spurs Average, 5320 MHz, Non HT20 Beam Forming, 6 to 54 Mbps





Antenna A



Antenna B



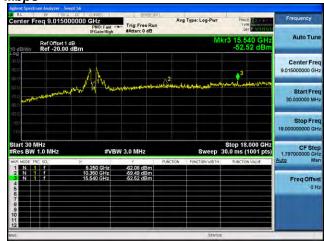
Antenna C

Antenna D



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





Antenna A



Antenna B



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))

nei. And Cod. 10. 2013 Section 12.7.0 (peak) & 12.7.7.3 (average, inethod 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.

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

Tested By :	Date of testing:
Jose Aguirre	10-Feb-2016 to 22-Feb-2016
Test Result : PASS	

See Appendix C for list of test equipment

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Non HT160, 6 to 54 Mbps		T									
Non HT160, 6 to 54 Mbps	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		Non HT160, 6 to 54 Mbps	1	6	-48.9				-42.9	-41.25	1.7
Non HT160, 6 to 54 Mbps		Non HT160, 6 to 54 Mbps	2	6	-49.4	-52.7			-41.7	-41.25	0.5
VHT160, M0.1 to M9.1		Non HT160, 6 to 54 Mbps	3	6		-55.6			-45.4	-41.25	
NHT160, M0.1 to M9.1		Non HT160, 6 to 54 Mbps	4	6	-56.0	-55.6	-57.2	-56.4	-44.2	-41.25	3.0
NHT160, M0.2 to M9.2		VHT160, M0.1 to M9.1	1	6	-50.1				-44.1	-41.25	2.8
NHT160, M0.1 to M9.1		VHT160, M0.1 to M9.1	2	6	-51.4	-50.2			-41.7	-41.25	0.5
NHT160, M0.2 to M9.2		VHT160, M0.2 to M9.2	2	6					-41.7	-41.25	0.5
NHT160, M0.3 to M9.3		VHT160, M0.1 to M9.1	3	6	-52.6	-51.6	-53.4		-41.7	-41.25	0.4
NHT160, M0.1 to M9.1		VHT160, M0.2 to M9.2	3	6		-51.6			-41.7	-41.25	0.4
NHT160, M0.2 to M9.2		VHT160, M0.3 to M9.3	3	6	-52.6	-51.6	-53.4		-41.7		0.4
VHT160, M0.3 to M9.3		VHT160, M0.1 to M9.1	4	6							
VHT160 Beam Forming, M0.1 to M9.1 2 6 -51.4 -50.2 -41.7 -41.25 0.5 VHT160 Beam Forming, M0.2 to M9.2 2 6 -51.4 -50.2 -41.7 -41.25 0.5 VHT160 Beam Forming, M0.1 to M9.1 3 6 -52.6 -51.6 -53.4 -41.7 -41.25 0.4 VHT160 Beam Forming, M0.2 to M9.2 3 6 -52.6 -51.6 -53.4 -41.7 -41.25 0.4 VHT160 Beam Forming, M0.3 to M9.3 3 6 -52.6 -51.6 -53.4 -41.7 -41.25 0.4 VHT160 Beam Forming, M0.1 to M9.1 4 6 -53.7 -53.0 -54.7 -54.5 -41.9 -41.25 0.7 VHT160 Beam Forming, M0.2 to M9.2 4 6 -53.7 -53.0 -54.7 -54.5 -41.9 -41.25 0.7 VHT160 STBC, M0.1 to M9.1 2 6 -51.4 -50.2 -41.7 -41.25 0.5 VHT160 STBC, M0.1 to M9.1 3 6 -52.6	50	VHT160, M0.2 to M9.2	4	6	-53.7	-53.0	-54.7	-54.5	-41.9	-41.25	0.7
VHT160 Beam Forming, M0.2 to M9.2 2 6 -51.4 -50.2 -41.7 -41.25 0.5 VHT160 Beam Forming, M0.1 to M9.1 3 6 -52.6 -51.6 -53.4 -41.7 -41.25 0.4 VHT160 Beam Forming, M0.2 to M9.2 3 6 -52.6 -51.6 -53.4 -41.7 -41.25 0.4 VHT160 Beam Forming, M0.3 to M9.3 3 6 -52.6 -51.6 -53.4 -41.7 -41.25 0.4 VHT160 Beam Forming, M0.3 to M9.3 3 6 -52.6 -51.6 -53.4 -41.7 -41.25 0.4 VHT160 Beam Forming, M0.1 to M9.1 4 6 -53.7 -53.0 -54.7 -54.5 -41.9 -41.25 0.7 VHT160 Beam Forming, M0.2 to M9.2 4 6 -53.7 -53.0 -54.7 -54.5 -41.9 -41.25 0.7 VHT160 Beam Forming, M0.3 to M9.3 4 6 -53.7 -53.0 -54.7 -54.5 -41.9 -41.25 0.7 VHT160 STBC, M0.1 to M9.1 2 6 -51.4 -50.2 -41.7 -41.25 0.5 VHT160 STBC, M0.1 to M9.1 3 6 -52.6 -51.6 -53.4 -41.7 -41.25 0.5 VHT160 STBC, M0.1 to M9.1 4 6 -53.7 -53.0 -54.7 -54.5 -41.9 -41.25 0.7 VHT160 STBC, M0.1 to M9.1 4 6 -53.7 -53.0 -54.7 -54.5 -41.9 -41.25 0.7 VHT160 STBC, M0.1 to M9.1 4 6 -51.7 -49.3 -41.7 -41.25 0.7 VHT160 STBC, M0.1 to M9.1 4 6 -51.7 -49.3 -41.3 -41.25 0.1 Non HT80, 6 to 54 Mbps 1 6 -51.7 -49.3 -41.3 -41.25 0.1 Non HT80, 6 to 54 Mbps 3 6 -54.6 -51.9 -52.4 -42.0 -41.25 0.8 Non HT80, 6 to 54 Mbps 4 6 -55.6 -53.0 -53.7 -55.5 -42.3 -41.25 1.0 VHT80, M0.1 to M9.1 1 6 -48.3 -42.3 -42.5 -42.5 -42.5 -42.5 -42.5 VHT80, M0.1 to M9.1 1 6 -53.3 -50.2 -42.5 -42.5 -42.5 -42.5 -42.5 VHT80, M0.1 to M9.1 2 6 -53.3 -50.2 -50.5 -42.5 -41.25 1.2 VHT80, M0.1 to M9.1 3 6 -55.1 -52.0 -50.5 -50.5 -41.4 -41.25 0.1 VHT80, M0.1 to M9.1 3 6 -55.1 -52.0 -50.5 -50.5 -41.4 -41.25 0.1 VHT80, M0.1 to M9.1 3 6 -55.1 -52.0 -50.5 -50.5 -41.4 -41.25 0.1 VHT80, M0.1 to M9	52	VHT160, M0.3 to M9.3	4	6		-53.0	-54.7	-54.5	-41.9	-41.25	0.7
WHT160 Beam Forming, M0.1 to M9.1 3 6 -52.6 -51.6 -53.4 -41.7 -41.25 0.4 VHT160 Beam Forming, M0.2 to M9.2 3 6 -52.6 -51.6 -53.4 -41.7 -41.25 0.4 VHT160 Beam Forming, M0.3 to M9.3 3 6 -52.6 -51.6 -53.4 -41.7 -41.25 0.4 VHT160 Beam Forming, M0.1 to M9.1 4 6 -53.7 -53.0 -54.7 -54.5 -41.9 -41.25 0.7 VHT160 Beam Forming, M0.2 to M9.2 4 6 -53.7 -53.0 -54.7 -54.5 -41.9 -41.25 0.7 VHT160 STBC, M0.1 to M9.1 2 6 -51.4 -50.2 -54.7 -54.5 -41.9 -41.25 0.7 VHT160 STBC, M0.1 to M9.1 3 6 -52.6 -51.6 -53.4 -41.7 -41.25 0.5 VHT160 STBC, M0.1 to M9.1 3 6 -52.6 -51.6 -53.4 -41.7 -41.25 0.5 Non HT80, 6 to 54		VHT160 Beam Forming, M0.1 to M9.1	2	6	-51.4	-50.2			-41.7	-41.25	0.5
VHT160 Beam Forming, M0.2 to M9.2 3 6 -52.6 -51.6 -53.4 -41.7 -41.25 0.4 VHT160 Beam Forming, M0.3 to M9.3 3 6 -52.6 -51.6 -53.4 -41.7 -41.25 0.4 VHT160 Beam Forming, M0.1 to M9.1 4 6 -53.7 -53.0 -54.7 -54.5 -41.9 -41.25 0.7 VHT160 Beam Forming, M0.2 to M9.2 4 6 -53.7 -53.0 -54.7 -54.5 -41.9 -41.25 0.7 VHT160 Beam Forming, M0.3 to M9.3 4 6 -53.7 -53.0 -54.7 -54.5 -41.9 -41.25 0.7 VHT160 STBC, M0.1 to M9.1 2 6 -51.4 -50.2 -41.7 -41.25 0.5 VHT160 STBC, M0.1 to M9.1 3 6 -52.6 -51.6 -53.4 -41.7 -41.25 0.4 VHT160 STBC, M0.1 to M9.1 4 6 -53.7 -53.0 -54.7 -54.5 -41.9 -41.25 0.7 Non HT80, 6 to 54 Mbps 1 6 -51.7 -49.3 -45.7 -41.25 0.1 Non HT80, 6 to 54 Mbps 2 6 -51.7 -49.3 -41.3 -41.25 0.1 Non HT80, 6 to 54 Mbps 3 6 -54.6 -51.9 -52.4 -42.0 -41.25 0.8 Non HT80, 6 to 54 Mbps 4 6 -55.6 -53.0 -53.7 -55.5 -42.3 -41.25 1.0 VHT80, M0.1 to M9.1 1 6 -48.3 -42.3 -41.25 1.1 VHT80, M0.1 to M9.1 2 6 -53.3 -50.2 -42.5 -41.25 1.2 VHT80, M0.1 to M9.1 2 6 -53.3 -50.2 -42.5 -41.25 1.2 VHT80, M0.1 to M9.1 2 6 -53.3 -50.2 -42.5 -41.25 1.2 VHT80, M0.1 to M9.1 3 6 -55.1 -52.0 -50.5 -41.4 -41.25 0.1 VHT80, M0.1 to M9.1 3 6 -55.1 -52.0 -50.5 -41.4 -41.25 0.1 VHT80, M0.1 to M9.1 3 6 -55.1 -52.0 -50.5 -41.4 -41.25 0.1 VHT80, M0.1 to M9.1 3 6 -55.1 -52.0 -50.5 -41.4 -41.25 0.1 VHT80, M0.1 to M9.1 3 6 -55.1 -52.0 -50.5 -50.5 -41.4 -41.25 0.1 VHT80, M0.1 to M9.1 3 6 -55.1 -52.0 -50.5 -50.5 -41.4 -41.25 0.1 VHT80, M0.1 to M9.1 3 6 -55.1 -52.0 -50.5 -50.5 -41.4 -41.25 0.1 VHT80, M0.1 to M9.1 3 6 -55.1 -52.0 -50.5 -50.5 -41.4 -41.25 0.1 VHT80, M0.1 to M9.1 3 6 -55.1 -		VHT160 Beam Forming, M0.2 to M9.2	2	6	-51.4	-50.2			-41.7	-41.25	0.5
VHT160 Beam Forming, M0.3 to M9.3 3 6 -52.6 -51.6 -53.4 -41.7 -41.25 0.4 VHT160 Beam Forming, M0.1 to M9.1 4 6 -53.7 -53.0 -54.7 -54.5 -41.9 -41.25 0.7 VHT160 Beam Forming, M0.2 to M9.2 4 6 -53.7 -53.0 -54.7 -54.5 -41.9 -41.25 0.7 VHT160 Beam Forming, M0.3 to M9.3 4 6 -53.7 -53.0 -54.7 -54.5 -41.9 -41.25 0.7 VHT160 STBC, M0.1 to M9.1 2 6 -51.4 -50.2 -41.7 -41.25 0.5 VHT160 STBC, M0.1 to M9.1 3 6 -52.6 -51.6 -53.4 -41.7 -41.25 0.5 VHT160 STBC, M0.1 to M9.1 4 6 -53.7 -53.0 -54.7 -54.5 -41.9 -41.25 0.7 VHT160 STBC, M0.1 to M9.1 4 6 -53.7 -53.0 -54.7 -54.5 -41.9 -41.25 0.7 Non HT80, 6 to 54 Mbps 1 6 -51.7 -54.5 -54.5 -41.9 -41.25 0.7 Non HT80, 6 to 54 Mbps 2 6 -51.7 -49.3 -45.7 -41.25 0.1 Non HT80, 6 to 54 Mbps 3 6 -54.6 -51.9 -52.4 -42.0 -41.25 0.8 Non HT80, 6 to 54 Mbps 4 6 -55.6 -53.0 -53.7 -55.5 -42.3 -41.25 1.0 VHT80, M0.1 to M9.1 1 6 -48.3 -50.2 -42.3 -41.25 1.1 VHT80, M0.1 to M9.1 2 6 -53.3 -50.2 -42.5 -41.25 1.2 VHT80, M0.1 to M9.1 3 6 -55.1 -52.0 -50.5 -41.4 -41.25 0.1 VHT80, M0.1 to M9.1 3 6 -55.1 -52.0 -50.5 -41.4 -41.25 0.1 VHT80, M0.1 to M9.1 3 6 -55.1 -52.0 -50.5 -41.4 -41.25 0.1 VHT80, M0.1 to M9.1 3 6 -55.1 -55.0 -50.5 -41.4 -41.25 0.1 VHT80, M0.1 to M9.1 3 6 -55.1 -55.0 -50.5 -41.4 -41.25 0.1 VHT80, M0.1 to M9.1 3 6 -55.1 -55.0 -50.5 -41.4 -41.25 0.1 VHT80, M0.1 to M9.1 3 6 -55.1 -55.0 -50.5 -41.4 -41.25 0.1 VHT80, M0.1 to M9.1 3 6 -55.1 -55.0 -50.5 -41.4 -41.25 0.1 VHT80, M0.1 to M9.1 3 6 -55.1 -55.0 -50.5 -41.4 -41.25 0.1 VHT80, M0.1 to M9.1 3 6 -55.1 -55.0 -50.5 -41.4 -41.25 0.1 VHT80, M0.1 to M9.1 3 6 -55.1 -		VHT160 Beam Forming, M0.1 to M9.1	_	6	-52.6	-51.6	-53.4		-41.7	-41.25	0.4
VHT160 Beam Forming, M0.1 to M9.1		VHT160 Beam Forming, M0.2 to M9.2	3	6	-52.6	-51.6	-53.4		-41.7	-41.25	0.4
VHT160 Beam Forming, M0.2 to M9.2 4 6 -53.7 -53.0 -54.7 -54.5 -41.9 -41.25 0.7 VHT160 Beam Forming, M0.3 to M9.3 4 6 -53.7 -53.0 -54.7 -54.5 -41.9 -41.25 0.7 VHT160 STBC, M0.1 to M9.1 2 6 -51.4 -50.2 -53.4 -41.7 -41.25 0.5 VHT160 STBC, M0.1 to M9.1 3 6 -52.6 -51.6 -53.4 -54.5 -41.7 -41.25 0.5 Non HT80, 6 to 54 Mbps 1 6 -51.7 -53.0 -54.7 -54.5 -41.9 -41.25 0.7 Non HT80, 6 to 54 Mbps 1 6 -51.7 -49.3 -45.7 -41.25 0.1 Non HT80, 6 to 54 Mbps 2 6 -51.7 -49.3 -41.3 -41.25 0.1 Non HT80, 6 to 54 Mbps 3 6 -54.6 -51.9 -52.4 -42.0 -41.25 0.8 Non HT80, 6 to 54 Mbps 4 6		VHT160 Beam Forming, M0.3 to M9.3	3	6	-52.6	-51.6			-41.7	-41.25	0.4
VHT160 Beam Forming, M0.3 to M9.3 4 6 -53.7 -53.0 -54.7 -54.5 -41.9 -41.25 0.7 VHT160 STBC, M0.1 to M9.1 3 6 -51.4 -50.2 -53.4 -41.7 -41.25 0.5 VHT160 STBC, M0.1 to M9.1 4 6 -53.7 -53.0 -54.7 -54.5 -41.9 -41.25 0.4 VHT160 STBC, M0.1 to M9.1 4 6 -53.7 -53.0 -54.7 -54.5 -41.9 -41.25 0.4 Non HT80, 6 to 54 Mbps 1 6 -51.7 -49.3 -45.7 -41.25 0.1 Non HT80, 6 to 54 Mbps 2 6 -51.7 -49.3 -41.3 -41.25 0.1 Non HT80, 6 to 54 Mbps 3 6 -54.6 -51.9 -52.4 -42.0 -41.25 0.8 Non HT80, 6 to 54 Mbps 4 6 -55.6 -53.0 -53.7 -55.5 -42.3 -41.25 0.8 VHT80, M0.1 to M9.1 1 6 <td></td> <td>VHT160 Beam Forming, M0.1 to M9.1</td> <td>4</td> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td>-41.9</td> <td></td> <td></td>		VHT160 Beam Forming, M0.1 to M9.1	4	6					-41.9		
VHT160 STBC, M0.1 to M9.1 2 6 -51.4 -50.2 -41.7 -41.25 0.5 VHT160 STBC, M0.1 to M9.1 3 6 -52.6 -51.6 -53.4 -41.7 -41.25 0.4 VHT160 STBC, M0.1 to M9.1 4 6 -53.7 -53.0 -54.5 -41.9 -41.25 0.7 Non HT80, 6 to 54 Mbps 1 6 -51.7 -49.3 -41.3 -41.25 0.1 Non HT80, 6 to 54 Mbps 2 6 -51.7 -49.3 -41.3 -41.25 0.1 Non HT80, 6 to 54 Mbps 3 6 -54.6 -51.9 -52.4 -42.0 -41.25 0.8 Non HT80, 6 to 54 Mbps 4 6 -55.6 -53.0 -52.4 -42.0 -41.25 0.8 VHT80, M0.1 to M9.1 1 6 -48.3 -52.4 -42.3 -41.25 1.1 VHT80, M0.2 to M9.2 2 6 -53.3 -50.2 -42.5 -41.25 1.2 VHT80, M0.1 to M9		VHT160 Beam Forming, M0.2 to M9.2	4	6	-53.7	-53.0	-54.7	-54.5	-41.9	-41.25	0.7
VHT160 STBC, M0.1 to M9.1 3 6 -52.6 -51.6 -53.4 -41.7 -41.25 0.4 VHT160 STBC, M0.1 to M9.1 4 6 -53.7 -53.0 -54.7 -54.5 -41.9 -41.25 0.7 STBC, M0.1 to M9.1 1 6 -53.7 -53.0 -54.6 -54.5 -41.9 -41.25 0.7 Non HT80, 6 to 54 Mbps 1 6 -51.7 -49.3 -41.3 -41.25 0.1 Non HT80, 6 to 54 Mbps 3 6 -54.6 -51.9 -52.4 -42.0 -41.25 0.8 Non HT80, 6 to 54 Mbps 4 6 -55.6 -53.0 -53.7 -55.5 -42.3 -41.25 0.8 Non HT80, 6 to 54 Mbps 4 6 -55.6 -53.0 -53.7 -55.5 -42.3 -41.25 0.8 VHT80, M0.1 to M9.1 1 6 -48.3 -42.3 -42.3 -41.25 1.1 VHT80, M0.2 to M9.2 2 6 -53.3 -50.2 -50.5 -41.4 -41.25 0.1 VHT80,		VHT160 Beam Forming, M0.3 to M9.3	4	6	-53.7	-53.0	-54.7	-54.5	-41.9	-41.25	0.7
VHT160 STBC, M0.1 to M9.1 4 6 -53.7 -53.0 -54.7 -54.5 -41.9 -41.25 0.7 Non HT80, 6 to 54 Mbps 1 6 -51.7 -49.3 -41.3 -45.7 -41.25 4.5 Non HT80, 6 to 54 Mbps 3 6 -54.6 -51.9 -52.4 -42.0 -41.25 0.8 Non HT80, 6 to 54 Mbps 4 6 -55.6 -53.0 -53.7 -55.5 -42.0 -41.25 0.8 Non HT80, 6 to 54 Mbps 4 6 -55.6 -53.0 -53.7 -55.5 -42.0 -41.25 0.8 VHT80, M0.1 to M9.1 1 6 -48.3 - -53.7 -55.5 -42.3 -41.25 1.1 VHT80, M0.2 to M9.2 2 6 -53.3 -50.2 - -42.5 -41.25 1.2 VHT80, M0.1 to M9.1 3 6 -55.1 -52.0 -50.5 -42.5 -41.25 0.1				6							
Non HT80, 6 to 54 Mbps 1 6 -51.7 -49.3 -45.7 -41.25 4.5 Non HT80, 6 to 54 Mbps 2 6 -51.7 -49.3 -41.3 -41.25 0.1 Non HT80, 6 to 54 Mbps 3 6 -54.6 -51.9 -52.4 -42.0 -41.25 0.8 Non HT80, 6 to 54 Mbps 4 6 -55.6 -53.0 -53.7 -55.5 -42.3 -41.25 1.0 VHT80, M0.1 to M9.1 1 6 -48.3 -50.2 -42.3 -41.25 1.2 VHT80, M0.2 to M9.2 2 6 -53.3 -50.2 -42.5 -42.5 -41.25 1.2 VHT80, M0.1 to M9.1 3 6 -55.1 -52.0 -50.5 -41.4 -41.25 0.1 VHT80, M0.1 to M9.1 3 6 -55.1 -52.0 -50.5 -41.4 -41.25 0.1 VHT80, M0.1 to M9.1 3 6 -55.1 -52.0 -50.5 -41.4 -41.25 0.1 VHT80, M0.1 to M9.1 3 6 -55.1 -52.0 -50.5 -41.4 -41.25 0.1 VHT80, M0.1 to M9.1 3 6 -55.1 -52.0 -50.5 -41.4 -41.25 0.1 VHT80, M0.1 to M9.1 3 6 -55.1 -52.0 -50.5 -41.4 -41.25 0.1 VHT80, M0.1 to M9.1 3 6 -55.1 -52.0 -50.5 -41.4 -41.25 0.1 VHT80, M0.1 to M9.1 3 6 -55.1 -52.0 -50.5 -41.4 -41.25 0.1 VHT80, M0.1 to M9.1 3 6 -55.1 -52.0 -50.5 -41.4 -41.25 0.1 VHT80, M0.1 to M9.1 3 6 -55.1 -52.0 -50.5 -41.4 -41.25 0.1 VHT80, M0.1 to M9.1 3 6 -55.1 -52.0 -50.5 -41.4 -41.25 0.1 VHT80, M0.1 to M9.1 3 6 -55.1 -52.0 -50.5 -50.5 -41.4 -41.25 0.1 VHT80, M0.1 to M9.1 3 6 -55.1 -52.0 -50.5 -50.5 -41.4 -41.25 0.1 VHT80, M0.1 to M9.1 3 6 -55.1 -52.0 -50.5 -50.5 -41.4 -41.25 0.1 VHT80, M0.1 to M9.1 3 6 -55.1 -52.0 -50.5 -50.5 -41.4 -41.25 0.1 VHT80, M0.1 to M9.1 3 -41.25		VHT160 STBC, M0.1 to M9.1	3	6	-52.6		-53.4		-41.7	-41.25	0.4
Non HT80, 6 to 54 Mbps 2 6 -51.7 -49.3 -41.3 -41.25 0.1 Non HT80, 6 to 54 Mbps 3 6 -54.6 -51.9 -52.4 -42.0 -41.25 0.8 Non HT80, 6 to 54 Mbps 4 6 -55.6 -53.0 -53.7 -55.5 -42.3 -41.25 1.0 VHT80, M0.1 to M9.1 1 6 -48.3 -42.3 -41.25 1.1 VHT80, M0.1 to M9.1 2 6 -53.3 -50.2 -42.5 -41.25 1.2 VHT80, M0.2 to M9.2 2 6 -53.3 -50.2 -42.5 -41.25 1.2 VHT80, M0.1 to M9.1 3 6 -55.1 -52.0 -50.5 -41.4 -41.25 0.1		VHT160 STBC, M0.1 to M9.1	4	6	-53.7	-53.0	-54.7	-54.5	-41.9	-41.25	0.7
Non HT80, 6 to 54 Mbps 2 6 -51.7 -49.3 -41.3 -41.25 0.1 Non HT80, 6 to 54 Mbps 3 6 -54.6 -51.9 -52.4 -42.0 -41.25 0.8 Non HT80, 6 to 54 Mbps 4 6 -55.6 -53.0 -53.7 -55.5 -42.3 -41.25 1.0 VHT80, M0.1 to M9.1 1 6 -48.3 -42.3 -41.25 1.1 VHT80, M0.1 to M9.1 2 6 -53.3 -50.2 -42.5 -41.25 1.2 VHT80, M0.2 to M9.2 2 6 -53.3 -50.2 -42.5 -41.25 1.2 VHT80, M0.1 to M9.1 3 6 -55.1 -52.0 -50.5 -41.4 -41.25 0.1			_								
Non HT80, 6 to 54 Mbps Non HT80, 6 to 54 Mbps 4 6 -55.6 -53.0 -53.7 -55.5 -42.3 -41.25 1.0 VHT80, M0.1 to M9.1 VHT80, M0.1 to M9.1 2 6 -53.3 -50.2 VHT80, M0.2 to M9.2 VHT80, M0.1 to M9.1 3 6 -55.1 -52.0 -50.5 -41.4 -41.25 0.1		Non HT80, 6 to 54 Mbps	1	6	-51.7				-45.7	-41.25	4.5
Non HT80, 6 to 54 Mbps 4 6 -55.6 -53.0 -53.7 -55.5 -42.3 -41.25 1.0 VHT80, M0.1 to M9.1 1 6 -48.3		Non HT80, 6 to 54 Mbps	1	6	-51.7	-49.3			-41.3		0.1
VHT80, M0.1 to M9.1 1 6 -48.3 -42.3 -41.25 1.1 VHT80, M0.1 to M9.1 2 6 -53.3 -50.2 -42.5 -41.25 1.2 VHT80, M0.2 to M9.2 2 6 -53.3 -50.2 -42.5 -41.25 1.2 VHT80, M0.1 to M9.1 3 6 -55.1 -52.0 -50.5 -41.4 -41.25 0.1			1								
VHT80, M0.1 to M9.1 2 6 -53.3 -50.2 -42.5 -41.25 1.2 VHT80, M0.2 to M9.2 2 6 -53.3 -50.2 -42.5 -41.25 1.2 VHT80, M0.1 to M9.1 3 6 -55.1 -52.0 -50.5 -41.4 -41.25 0.1	0		4			-53.0	-53.7	-55.5	-42.3	-41.25	1.0
VHT80, M0.1 to M9.1 2 6 -53.3 -50.2 -42.5 -41.25 1.2 VHT80, M0.2 to M9.2 2 6 -53.3 -50.2 -42.5 -41.25 1.2 VHT80, M0.1 to M9.1 3 6 -55.1 -52.0 -50.5 -41.4 -41.25 0.1	529	VHT80, M0.1 to M9.1	-	6	-48.3				-42.3		
VHT80, M0.1 to M9.1 3 6 -55.1 -52.0 -50.5 -41.4 -41.25 0.1	Ε,		_	6							
		VHT80, M0.2 to M9.2	2	6	-53.3	-50.2			-42.5	-41.25	1.2
VHT80, M0.2 to M9.2 3 6 -55.1 -52.0 -50.5 -41.4 -41.25 0.1			3	6	-55.1	-52.0			-41.4	-41.25	0.1
		VHT80, M0.2 to M9.2	3	6	-55.1	-52.0	-50.5		-41.4	-41.25	0.1

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	VHT80, M0.3 to M9.3	3	6	-55.1	-52.0	-50.5		-41.4	-41.25	0.1				
	VHT80, M0.1 to M9.1	4	6	-56.2	-53.3	-52.0	-54.8	-41.8	-41.25	0.5				
	VHT80, M0.2 to M9.2	4	6	-56.2	-53.3	-52.0	-54.8	-41.8	-41.25	0.5				
	VHT80, M0.3 to M9.3	4	6	-56.2	-53.3	-52.0	-54.8	-41.8	-41.25	0.5				
	VHT80 Beam Forming, M0.1 to M9.1	2	6	-53.3	-50.2			-42.5	-41.25	1.2				
	VHT80 Beam Forming, M0.2 to M9.2	2	6	-53.3	-50.2			-42.5	-41.25	1.2				
	VHT80 Beam Forming, M0.1 to M9.1	3	6	-55.1	-52.0	-50.5		-41.4	-41.25	0.1				
	VHT80 Beam Forming, M0.2 to M9.2	3	6	-55.1	-52.0	-50.5		-41.4	-41.25	0.1				
	VHT80 Beam Forming, M0.3 to M9.3	3	6	-55.1	-52.0	-50.5		-41.4	-41.25	0.1				
	VHT80 Beam Forming, M0.1 to M9.1	4	6	-56.2	-53.3	-52.0	-54.8	-41.8	-41.25	0.5				
	VHT80 Beam Forming, M0.2 to M9.2	4	6	-56.2	-53.3	-52.0	-54.8	-41.8	-41.25	0.5				
	VHT80 Beam Forming, M0.3 to M9.3	4	6	-56.2	-53.3	-52.0	-54.8	-41.8	-41.25	0.5				
	VHT80 STBC, M0.1 to M9.1	2	6	-53.3	-50.2			-42.5	-41.25	1.2				
	VHT80 STBC, M0.1 to M9.1	3	6	-55.1	-52.0	-50.5		-41.4	-41.25	0.1				
	VHT80 STBC, M0.1 to M9.1	4	6	-56.2	-53.3	-52.0	-54.8	-41.8	-41.25	0.5				
	Non HT40, 6 to 54 Mbps	1	6	-49.2				-43.2	-41.25	2.0				
	Non HT40, 6 to 54 Mbps	2	6	-52.7	-54.1			-44.3	-41.25	3.1				
	Non HT40, 6 to 54 Mbps	3	6	-52.7	-54.1	-50.6		-41.5	-41.25	0.2				
	Non HT40, 6 to 54 Mbps	4	6	-56.0	-56.8	-53.8	-55.1	-43.3	-41.25	2.0				
	HT/VHT40, M0 to M7	1	6	-47.7				-41.7	-41.25	0.5				
	HT/VHT40, M0 to M7	2	6	-52.7	-53.4			-44.0	-41.25	2.8				
	HT/VHT40, M8 to M15	2	6	-52.7	-53.4			-44.0	-41.25	2.8				
	HT/VHT40, M0 to M7	3	6	-54.5	-54.9	-50.2		-41.9	-41.25	0.6				
	HT/VHT40, M8 to M15	3	6	-54.5	-54.9	-50.2		-41.9	-41.25	0.6				
	HT/VHT40, M16 to M23	3	6	-54.5	-54.9	-50.2		-41.9	-41.25	0.6				
	HT/VHT40, M0 to M7	4	6	-55.7	-55.9	-51.7	-54.3	-42.0	-41.25	0.8				
5310	HT/VHT40, M8 to M15	4	6	-55.7	-55.9	-51.7	-54.3	-42.0	-41.25	0.8				
53	HT/VHT40, M16 to M23	4	6	-55.7	-55.9	-51.7	-54.3	-42.0	-41.25	0.8				
	HT/VHT40 Beam Forming, M0 to M7	2	9	-54.5	-54.9			-42.7	-41.25	1.4				
	HT/VHT40 Beam Forming, M8 to M15	2	6	-52.7	-53.4			-44.0	-41.25	2.8				
	HT/VHT40 Beam Forming, M0 to M7	3	11	-60.0	-60.9	-57.2		-43.5	-41.25	2.2				
	HT/VHT40 Beam Forming, M8 to M15	3	8	-55.7	-55.9	-51.7		-41.4	-41.25	0.1				
	HT/VHT40 Beam Forming, M16 to M23	3	6	-54.5	-54.9	-50.2		-41.9	-41.25	0.6				
	HT/VHT40 Beam Forming, M0 to M7	4	12	-62.0	-62.4	-59.4	-61.1	-43.0	-41.25	1.8				
	HT/VHT40 Beam Forming, M8 to M15	4	9	-58.0	-58.3	-54.6	-56.4	-41.5	-41.25	0.3				
	HT/VHT40 Beam Forming, M16 to M23	4	7	-56.8	-57.0	-53.2	-55.4	-42.1	-41.25	0.8				
	HT/VHT40 STBC, M0 to M7	2	6	-52.7	-53.4			-44.0	-41.25	2.8				
	HT/VHT40 STBC, M0 to M7	3	6	-54.5	-54.9	-50.2		-41.9	-41.25	0.6				
	HT/VHT40 STBC, M0 to M7	4	6	-55.7	-55.9	-51.7	-54.3	-42.0	-41.25	0.8				

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on HT20, 6 to 54 Mbps	1	6	-50.4				-44.4	-41.25	3.2
on HT20, 6 to 54 Mbps	2	6	-54.2	-55.8			-45.9	-41.25	4.7
on HT20, 6 to 54 Mbps	3	6	-60.6	-61.3	-59.7		-49.7	-41.25	8.5
on HT20, 6 to 54 Mbps	4	6	-66.3	-66.5	-65.7	-66.0	-54.1	-41.25	12.8
on HT20 Beam Forming, 6 to 54 Mbps	2	9	-54.2	-55.8			-42.9	-41.25	1.7
on HT20 Beam Forming, 6 to 54 Mbps	3	11	-60.6	-61.3	-59.7		-44.9	-41.25	3.7
on HT20 Beam Forming, 6 to 54 Mbps	4	12	-66.3	-66.5	-65.7	-66.0	-48.1	-41.25	6.8
T/VHT20, M0 to M7	1	6	-49.5				-43.5	-41.25	2.3
T/VHT20, M0 to M7	2	6	-54.3	-55.4			-45.8	-41.25	4.6
T/VHT20, M8 to M15	2	6	-52.1	-53.1			-43.6	-41.25	2.3
T/VHT20, M0 to M7	3	6	-60.3	-60.9	-59.4		-49.4	-41.25	8.1
T/VHT20, M8 to M15	3	6	-54.3	-55.4	-53.5		-43.6	-41.25	2.3
T/VHT20, M16 to M23	3	6	-52.1	-53.1	-51.7		-41.5	-41.25	0.2
T/VHT20, M0 to M7	4	6	-66.2	-66.3	-65.4	-65.6	-53.8	-41.25	12.6
T/VHT20, M8 to M15	4	6	-60.3	-60.9	-59.4	-59.6	-48.0	-41.25	6.7
T/VHT20, M16 to M23	4	6	-58.0	-58.7	-57.0	-57.3	-45.7	-41.25	4.4
T/VHT20 Beam Forming, M0 to M7	2	9	-54.3	-55.4			-42.8	-41.25	1.6
T/VHT20 Beam Forming, M8 to M15	2	6	-52.1	-53.1			-43.6	-41.25	2.3
T/VHT20 Beam Forming, M0 to M7	3	11	-60.3	-60.9	-59.4		-44.6	-41.25	3.3
T/VHT20 Beam Forming, M8 to M15	3	8	-54.3	-55.4	-53.5		-41.8	-41.25	0.5
T/VHT20 Beam Forming, M16 to M23	3	6	-52.1	-53.1	-51.7		-41.5	-41.25	0.2
T/VHT20 Beam Forming, M0 to M7	4	12	-66.2	-66.3	-65.4	-65.6	-47.8	-41.25	6.6
T/VHT20 Beam Forming, M8 to M15	4	9	-60.3	-60.9	-59.4	-59.6	-45.0	-41.25	3.7
T/VHT20 Beam Forming, M16 to M23	4	7	-58.0	-58.7	-57.0	-57.3	-44.5	-41.25	3.2
T/VHT20 STBC, M0 to M7	2	6	-52.1	-53.1			-43.6	-41.25	2.3
T/VHT20 STBC, M0 to M7	3	6	-54.3	-55.4	-53.5		-43.6	-41.25	2.3
T/VHT20 STBC, M0 to M7	4	6	-60.3	-60.9	-59.4	-59.6	-48.0	-41.25	6.7
	on HT20, 6 to 54 Mbps on HT20 Beam Forming, 6 to 54 Mbps on HT20, M0 to M7 of VHT20, M0 to M7 of VHT20, M0 to M7 of VHT20, M8 to M15 of VHT20 Beam Forming, M0 to M7 of VHT20 Beam Forming, M8 to M15 of VHT20 STBC, M0 to M7	2 on HT20, 6 to 54 Mbps 2 on HT20 Beam Forming, 6 to 54 Mbps 3 on HT20 Beam Forming, 6 to 54 Mbps 3 on HT20 Beam Forming, 6 to 54 Mbps 4 on HT20 Beam Forming, 6 to 54 Mbps 5 on HT20 Beam Forming, 6 to 54 Mbps 7 on HT20 Beam Forming, 6 to 54 Mbps 7 on HT20, M0 to M7 7 on HT20, M0 to M7 7 on HT20, M0 to M7 7 on HT20, M8 to M15 7 on HT20, M9 to M7 7 on HT20, M9 to M7 7 on HT20, M9 to M15	on HT20, 6 to 54 Mbps 3 6 on HT20, 6 to 54 Mbps 4 6 on HT20 Beam Forming, 6 to 54 Mbps 2 9 on HT20 Beam Forming, 6 to 54 Mbps 3 11 on HT20 Beam Forming, 6 to 54 Mbps 4 12 fVHT20, M0 to M7 1 6 fVHT20, M0 to M7 2 6 fVHT20, M8 to M15 2 6 fVHT20, M8 to M15 3 6 fVHT20, M16 to M23 3 6 fVHT20, M16 to M23 4 6 fVHT20, M16 to M23 4 6 fVHT20 Beam Forming, M0 to M7 2 9 fVHT20 Beam Forming, M8 to M15 2 6 fVHT20 Beam Forming, M8 to M15 3 6 fVHT20 Beam Forming, M8 to M15 3 6 fVHT20 Beam Forming, M16 to M23 3 6 fVHT20 Beam Forming, M16 to M23 4 7 fVHT20 Beam Forming, M16 to M23 4 7 fVHT20 STBC, M0 to M7 2 6 fVHT20 STBC, M0 to M7 3 6	on HT20, 6 to 54 Mbps 3 6 -60.6 on HT20, 6 to 54 Mbps 4 6 -66.3 on HT20 Beam Forming, 6 to 54 Mbps 3 11 -60.6 on HT20 Beam Forming, 6 to 54 Mbps 4 12 -66.3 on HT20 Beam Forming, 6 to 54 Mbps 4 12 -66.3 f/VHT20, M0 to M7 1 6 -49.5 f/VHT20, M0 to M7 2 6 -54.3 f/VHT20, M8 to M15 2 6 -52.1 f/VHT20, M8 to M15 3 6 -60.3 f/VHT20, M16 to M23 3 6 -52.1 f/VHT20, M8 to M15 4 6 -66.2 f/VHT20, M8 to M15 4 6 -60.3 f/VHT20, M8 to M23 4 6 -58.0 f/VHT20 Beam Forming, M0 to M7 2 9 -54.3 f/VHT20 Beam Forming, M8 to M15 3 6 -52.1 f/VHT20 Beam Forming, M8 to M23 3 6 -52.1 f/VHT20 Beam Forming, M16 to M23 3 6 -52.1 f/VHT20 Beam Forming, M8 to M15 4 9	On HT20, 6 to 54 Mbps 3 6 -60.6 -61.3 On HT20, 6 to 54 Mbps 4 6 -66.3 -66.5 On HT20 Beam Forming, 6 to 54 Mbps 3 11 -60.6 -61.3 On HT20 Beam Forming, 6 to 54 Mbps 4 12 -66.3 -66.5 On HT20 Beam Forming, 6 to 54 Mbps 4 12 -66.3 -66.5 ON HT20, M0 to M7 1 6 -49.5 -66.5 ON HT20, M0 to M7 2 6 -54.3 -55.4 ON HT20, M8 to M15 2 6 -52.1 -53.1 ON HT20, M8 to M15 3 6 -60.3 -60.9 ON HT20, M16 to M23 3 6 -52.1 -53.1 ON HT20, M16 to M23 4 6 -66.2 -66.3 ON HT20, M16 to M23 4 6 -66.2 -66.3 ON HT20, M16 to M23 4 6 -58.0 -58.7 ON HT20, M16 to M23 4 6 -58.0 -58.7 ON HT20, M16 to M23 4 6 -58.0 -58.7 ON HT20, M16 to M23	On HT20, 6 to 54 Mbps 3 6 -60.6 -61.3 -59.7 On HT20, 6 to 54 Mbps 4 6 -66.3 -66.5 -65.7 On HT20 Beam Forming, 6 to 54 Mbps 2 9 -54.2 -55.8 On HT20 Beam Forming, 6 to 54 Mbps 3 11 -60.6 -61.3 -59.7 On HT20 Beam Forming, 6 to 54 Mbps 4 12 -66.3 -66.5 -65.7 ON HT20, M0 to M7 1 6 -49.5 -49.5 ON HT20, M0 to M7 2 6 -54.3 -55.4 ON HT20, M0 to M7 3 6 -60.3 -60.9 -59.4 ON HT20, M0 to M7 3 6 -60.3 -60.9 -59.4 ON HT20, M0 to M7 3 6 -52.1 -53.1 -51.7 ON HT20, M16 to M23 3 6 -52.1 -53.1 -51.7 ON HT20, M16 to M23 4 6 -66.2 -66.3 -65.4 ON HT20, M16 to M23 4 6 -58.0 -58.7 -57.0 ON HT20, M16 to M23 4 6 -58.0	on HT20, 6 to 54 Mbps 3 6 -60.6 -61.3 -59.7 on HT20, 6 to 54 Mbps 4 6 -66.3 -66.5 -65.7 -66.0 on HT20 Beam Forming, 6 to 54 Mbps 3 11 -60.6 -61.3 -59.7 on HT20 Beam Forming, 6 to 54 Mbps 4 12 -66.3 -66.5 -65.7 -66.0 on HT20, M0 to M7 1 6 -49.5 -49.5 -54.3 -55.4 -55.4 -55.4 -66.0 -67.7 -67.0 -67.0 -67.0 -66.0 -59.4 -59.4 -59.4 -59.4 -59.4 -59.4 -59.4 -59.4 -59.4 -59.4 -59.4 -59.4 -59.4 -59.4 -59.4 -59.4 -59.4 -59.6 -59.4 -59.6 -59.4 -59.6<	On HT20, 6 to 54 Mbps 3 6 -60.6 -61.3 -59.7 -49.7 On HT20, 6 to 54 Mbps 4 6 -66.3 -66.5 -65.7 -66.0 -54.1 On HT20 Beam Forming, 6 to 54 Mbps 3 11 -60.6 -61.3 -59.7 -44.9 On HT20 Beam Forming, 6 to 54 Mbps 4 12 -66.3 -66.5 -65.7 -66.0 -48.1 T/VHT20, M0 to M7 1 6 -49.5 -42.5 -43.5 -43.5 T/VHT20, M0 to M7 2 6 -54.3 -55.4 -55.4 -45.8 T/VHT20, M8 to M15 2 6 -52.1 -53.1 -43.6 T/VHT20, M16 to M23 3 6 -52.1 -53.5 -43.6 T/VHT20, M0 to M7 4 6 -66.2 -66.3 -65.4 -65.6 -59.4 -49.4 T/VHT20, M16 to M23 3 6 -52.1 -53.1 -51.7 -41.5 -41.5 -41.5 -42.8 -42.8 -42.8 -42.8 -42.8 -42.8 -42.8 -42.8 -52.1 -53.1	TO HTZO, 6 to 54 Mbps 3 6 -60.6 -61.3 -59.7 -49.7 -41.25 TO HTZO, 6 to 54 Mbps 4 6 -66.3 -66.5 -65.7 -66.0 -54.1 -41.25 TO HTZO Beam Forming, 6 to 54 Mbps 3 11 -60.6 -61.3 -59.7 -44.9 -41.25 TO HTZO Beam Forming, 6 to 54 Mbps 3 11 -60.6 -61.3 -59.7 -44.9 -41.25 TO HTZO Beam Forming, 6 to 54 Mbps 4 12 -66.3 -66.5 -65.7 -66.0 -48.1 -41.25 TO HTZO Beam Forming, 6 to 54 Mbps 4 12 -66.3 -66.5 -65.7 -66.0 -48.1 -41.25 TO HTZO Beam Forming, 6 to 54 Mbps 4 12 -66.3 -66.5 -65.7 -66.0 -48.1 -41.25 TO HTZO, M0 to M7 1 6 -49.543.5 -43.25 TO HTZO, M0 to M7 2 6 -54.3 -55.443.5 -43.25 TO HTZO, M8 to M15 2 6 -52.1 -53.143.6 -41.25 TO HTZO, M8 to M15 3 6 -60.3 -60.9 -59.4 -49.4 -41.25 TO HTZO, M8 to M15 3 6 -52.1 -53.1 -51.7 -41.5 -41.25 TO HTZO, M8 to M15 4 6 -66.2 -66.3 -65.4 -65.6 -53.8 -41.25 TO HTZO, M8 to M15 4 6 -60.3 -60.9 -59.4 -59.6 -48.0 -41.25 TO HTZO, M8 to M15 4 6 -60.3 -60.9 -59.4 -59.6 -48.0 -41.25 TO HTZO, M8 to M15 4 6 -60.3 -60.9 -59.4 -59.6 -48.0 -41.25 TO HTZO, M8 to M15 4 6 -60.3 -60.9 -59.4 -59.6 -48.0 -41.25 TO HTZO, M8 to M15 4 6 -58.0 -58.7 -57.0 -57.3 -45.7 -41.25 TO HTZO, M8 to M15 4 6 -58.0 -58.7 -57.0 -57.3 -45.7 -41.25 TO HTZO, M8 to M15 3 6 -52.1 -53.1 -53.1 -59.7 -44.6 -41.25 TO HTZO, M8 to M15 4 6 -58.0 -58.7 -57.0 -57.3 -45.7 -41.25 TO HTZO, M8 to M15 3 6 -52.1 -53.1 -53.1 -59.4 -59.6 -48.0 -41.25 TO HTZO, M8 to M15 3 6 -52.1 -53.1 -53.1 -59.4 -59.6 -48.0 -41.25 TO HTZO, M8 to M15 3 6 -52.1 -53.1 -53.1 -59.4 -59.6 -48.0 -41.25 TO HTZO, M8 to M15 3 6 -52.1 -53.1 -53.1 -59.4 -59.6 -48.0 -41.25 TO HTZO, M8 to M15 3 6 -52.1 -53.1 -53.1 -59.4 -59.6 -48.0 -41.25 TO HTZO, M8 to M15 4 6 -58.0 -58.7 -57.0 -57.3 -44.5 -41.25 TO HTZO, M8 to M15 4 6 -58.0 -58.7 -57.0 -57.3 -44.5 -41.25 TO HTZO, M8 to M15 4 7 -58.0 -58.7 -57.0 -57.3 -44.5 -41.25 TO HTZO, M8 to M15 4 7 -58.0 -58.7 -57.0 -57.3 -44.5 -41.25 TO HTZO, M8 to M15 4 7 -58.0 -58.7 -57.0 -57.3 -44.5 -41.25 TO HTZO, M8 to M15 4 7 -58.0 -58.7 -57.0 -57.3 -44.5 -41.25 TO HTZO, M8 to M15 4 7 -58.0 -58.7 -57.0



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)
١	Non HT160, 6 to 54 Mbps	1	6	-39.5				-33.5	-21.25	12.3
	Non HT160, 6 to 54 Mbps	2	6	-43.4	-42.2			-33.7	-21.25	12.5
l l	Non HT160, 6 to 54 Mbps	3	6	-45.2	-45.1	-53.1		-35.8	-21.25	14.6
_!	Non HT160, 6 to 54 Mbps	4	6	-45.2	-45.1	-53.1	-45.0	-34.1	-21.25	12.9
١	VHT160, M0.1 to M9.1	1	6	-32.8				-26.8	-21.25	5.6
١	VHT160, M0.1 to M9.1	2	6	-37.5	-36.5			-28.0	-21.25	6.7
١	VHT160, M0.2 to M9.2	2	6	-37.5	-36.5			-28.0	-21.25	6.7
١	VHT160, M0.1 to M9.1	3	6	-43.4	-33.3	-38.6		-25.9	-21.25	4.6
١	VHT160, M0.2 to M9.2	3	6	-43.4	-33.3	-38.6		-25.9	-21.25	4.6
١	VHT160, M0.3 to M9.3	3	6	-43.4	-33.3	-38.6		-25.9	-21.25	4.6
١	VHT160, M0.1 to M9.1	4	6	-45.9	-39.8	-40.1	-45.1	-29.9	-21.25	8.6
5250	VHT160, M0.2 to M9.2	4	6	-45.9	-39.8	-40.1	-45.1	-29.9	-21.25	8.6
52	VHT160, M0.3 to M9.3	4	6	-45.9	-39.8	-40.1	-45.1	-29.9	-21.25	8.6
١	VHT160 Beam Forming, M0.1 to M9.1	2	6	-37.5	-36.5			-28.0	-21.25	6.7
١	VHT160 Beam Forming, M0.2 to M9.2	2	6	-37.5	-36.5			-28.0	-21.25	6.7
١	VHT160 Beam Forming, M0.1 to M9.1	3	6	-43.4	-33.3	-38.6		-25.9	-21.25	4.6
١	VHT160 Beam Forming, M0.2 to M9.2	3	6	-43.4	-33.3	-38.6		-25.9	-21.25	4.6
١	VHT160 Beam Forming, M0.3 to M9.3	3	6	-43.4	-33.3	-38.6		-25.9	-21.25	4.6
١	VHT160 Beam Forming, M0.1 to M9.1	4	6	-45.9	-39.8	-40.1	-45.1	-29.9	-21.25	8.6
_	VHT160 Beam Forming, M0.2 to M9.2	4	6	-45.9	-39.8	-40.1	-45.1	-29.9	-21.25	8.6
	VHT160 Beam Forming, M0.3 to M9.3	4	6	-45.9	-39.8	-40.1	-45.1	-29.9	-21.25	8.6
	VHT160 STBC, M0.1 to M9.1	2	6	-37.5	-36.5			-28.0	-21.25	6.7
	VHT160 STBC, M0.1 to M9.1	3	6	-43.4	-33.3	-38.6		-25.9	-21.25	4.6
١	VHT160 STBC, M0.1 to M9.1	4	6	-45.9	-39.8	-40.1	-45.1	-29.9	-21.25	8.6
		_								
ا	Non HT80, 6 to 54 Mbps	1	6	-30.7				-24.7	-21.25	3.5
ا	Non HT80, 6 to 54 Mbps	2	6	-30.7	-31.3			-22.0	-21.25	0.7
ا	Non HT80, 6 to 54 Mbps	3	6	-32.6	-36.2	-34.1		-23.3	-21.25	2.0
ا ا	Non HT80, 6 to 54 Mbps	4	6	-35.7	-36.2	-38.3	-39.6	-25.2	-21.25	3.9
5290	VHT80, M0.1 to M9.1	1	6	-30.8				-24.8	-21.25	3.6
(A)	VHT80, M0.1 to M9.1	2	6	-35.9	-33.7			-25.7	-21.25	4.4
١	VHT80, M0.2 to M9.2	2	6	-35.9	-33.7			-25.7	-21.25	4.4
١	VHT80, M0.1 to M9.1	3	6	-35.2	-36.7	-37.2		-25.5	-21.25	4.3
		1	'		-	• — —			•	

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	VHT80, M0.3 to M9.3	3	6	-35.2	-36.7	-37.2		-25.5	-21.25	4.3
	VHT80, M0.1 to M9.1	4	6	-36.9	-36.2	-37.2	-37.8	-25.0	-21.25	3.7
	VHT80, M0.2 to M9.2	4	6	-36.9	-36.2	-37.2	-37.8	-25.0	-21.25	3.7
	VHT80, M0.3 to M9.3	4	6	-36.9	-36.2	-37.2	-37.8	-25.0	-21.25	3.7
	VHT80 Beam Forming, M0.1 to M9.1	2	6	-35.9	-33.7			-25.7	-21.25	4.4
	VHT80 Beam Forming, M0.2 to M9.2	2	6	-35.9	-33.7			-25.7	-21.25	4.4
	VHT80 Beam Forming, M0.1 to M9.1	3	6	-35.2	-36.7	-37.2		-25.5	-21.25	4.3
	VHT80 Beam Forming, M0.2 to M9.2	3	6	-35.2	-36.7	-37.2		-25.5	-21.25	4.3
	VHT80 Beam Forming, M0.3 to M9.3	3	6	-35.2	-36.7	-37.2		-25.5	-21.25	4.3
	VHT80 Beam Forming, M0.1 to M9.1	4	6	-36.9	-36.2	-37.2	-37.8	-25.0	-21.25	3.7
	VHT80 Beam Forming, M0.2 to M9.2	4	6	-36.9	-36.2	-37.2	-37.8	-25.0	-21.25	3.7
	VHT80 Beam Forming, M0.3 to M9.3	4	6	-36.9	-36.2	-37.2	-37.8	-25.0	-21.25	3.7
	VHT80 STBC, M0.1 to M9.1	2	6	-35.9	-33.7			-25.7	-21.25	4.4
	VHT80 STBC, M0.1 to M9.1	3	6	-35.2	-36.7	-37.2		-25.5	-21.25	4.3
	VHT80 STBC, M0.1 to M9.1	4	6	-36.9	-36.2	-37.2	-37.8	-25.0	-21.25	3.7
	Non HT40, 6 to 54 Mbps	1	6	-29.7				-23.7	-21.25	2.5
	Non HT40, 6 to 54 Mbps	2	6	-30.8	-33.3			-22.9	-21.25	1.6
	Non HT40, 6 to 54 Mbps	3	6	-30.8	-33.3	-33.7		-21.6	-21.25	0.4
	Non HT40, 6 to 54 Mbps	4	6	-33.3	-34.3	-34.9	-35.1	-22.3	-21.25	1.1
	HT/VHT40, M0 to M7	1	6	-30.8				-24.8	-21.25	3.6
	HT/VHT40, M0 to M7	2	6	-32.5	-38.3			-25.5	-21.25	4.2
	HT/VHT40, M8 to M15	2	6	-32.5	-38.3			-25.5	-21.25	4.2
	HT/VHT40, M0 to M7	3	6	-39.0	-38.8	-36.8		-27.3	-21.25	6.1
	HT/VHT40, M8 to M15	3	6	-39.0	-38.8	-36.8		-27.3	-21.25	6.1
	HT/VHT40, M16 to M23	3	6	-39.0	-38.8	-36.8		-27.3	-21.25	6.1
	HT/VHT40, M0 to M7	4	6	-41.7	-42.1	-40.9	-38.6	-28.6	-21.25	7.3
10	HT/VHT40, M8 to M15	4	6	-41.7	-42.1	-40.9	-38.6	-28.6	-21.25	7.3
5310	HT/VHT40, M16 to M23	4	6	-41.7	-42.1	-40.9	-38.6	-28.6	-21.25	7.3
	HT/VHT40 Beam Forming, M0 to M7	2	9	-39.0	-38.8			-26.9	-21.25	5.6
	HT/VHT40 Beam Forming, M8 to M15	2	6	-32.5	-38.3			-25.5	-21.25	4.2
	HT/VHT40 Beam Forming, M0 to M7	3	11	-43.1	-40.9	-45.8		-27.3	-21.25	6.0
	HT/VHT40 Beam Forming, M8 to M15	3	8	-41.7	-42.1	-40.9		-29.0	-21.25	7.7
	HT/VHT40 Beam Forming, M16 to M23	3	6	-39.0	-38.8	-36.8		-27.3	-21.25	6.1
	HT/VHT40 Beam Forming, M0 to M7	4	12	-41.0	-46.2	-45.8	-44.9	-25.9	-21.25	4.7
	HT/VHT40 Beam Forming, M8 to M15	4	9	-42.9	-41.1	-38.3	-40.9	-25.5	-21.25	4.2
	HT/VHT40 Beam Forming, M16 to M23	4	7	-45.0	-43.5	-40.5	-43.4	-29.6	-21.25	8.3
	HT/VHT40 STBC, M0 to M7	2	6	-32.5	-38.3			-25.5	-21.25	4.2
	HT/VHT40 STBC, M0 to M7	3	6	-39.0	-38.8	-36.8		-27.3	-21.25	6.1
	HT/VHT40 STBC, M0 to M7	4	6	-41.7	-42.1	-40.9	-38.6	-28.6	-21.25	7.3

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Non HT20, 6 to 54 Mbps 1 6 -32.4 -35.2 Non HT20, 6 to 54 Mbps 2 6 -36.7 -35.2 Non HT20, 6 to 54 Mbps 3 6 -37.9 -43.2 -41.8	-26.4 -26.9	-21.25 -21.25	5.2
Non HT20, 6 to 54 Mbps 3 6 -37.9 -43.2 -41.8		24.25	
		-21.25	5.6
	-29.6	-21.25	8.3
Non HT20, 6 to 54 Mbps 4 6 -40.9 -43.1 -47.5 -44.	1 -31.3	-21.25	10.0
Non HT20 Beam Forming, 6 to 54 Mbps 2 9 -36.7 -35.2	-23.9	-21.25	2.6
Non HT20 Beam Forming, 6 to 54 Mbps 3 11 -37.9 -43.2 -41.8	-24.8	-21.25	3.5
Non HT20 Beam Forming, 6 to 54 Mbps 4 12 -40.9 -43.1 -47.5 -44.	1 -25.3	-21.25	4.0
HT/VHT20, M0 to M7	-28.7	-21.25	7.5
HT/VHT20, M0 to M7 2 6 -35.3 -39.7	-28.0	-21.25	6.7
HT/VHT20, M8 to M15 2 6 -33.1 -32.4	-23.7	-21.25	2.5
HT/VHT20, M0 to M7 3 6 -36.0 -46.5 -46.6	-29.3	-21.25	8.0
HT/VHT20, M8 to M15 3 6 -35.3 -39.7 -40.5	-27.1	-21.25	5.8
HT/VHT20, M16 to M23 3 6 -33.1 -32.4 -35.2	-22.6	-21.25	1.4
HT/VHT20, M0 to M7 4 6 -40.2 -40.4 -44.4 -42.	-29.6	-21.25	8.4
HT/VHT20, M8 to M15 4 6 -36.0 -46.5 -46.6 -42.	1 -28.5	-21.25	7.2
HT/VHT20, M16 to M23 4 6 -34.8 -38.1 -36.9 -35.	3 -24.1	-21.25	2.8
HT/VHT20 Beam Forming, M0 to M7 2 9 -35.3 -39.7	-25.0	-21.25	3.7
HT/VHT20 Beam Forming, M8 to M15 2 6 -33.1 -32.4	-23.7	-21.25	2.5
HT/VHT20 Beam Forming, M0 to M7 3 11 -36.0 -46.5 -46.6	-24.5	-21.25	3.2
HT/VHT20 Beam Forming, M8 to M15 3 8 -35.3 -39.7 -40.5	-25.3	-21.25	4.0
HT/VHT20 Beam Forming, M16 to M23 3 6 -33.1 -32.4 -35.2	-22.6	-21.25	1.4
HT/VHT20 Beam Forming, M0 to M7 4 12 -40.2 -40.4 -44.4 -42.	-23.6	-21.25	2.4
HT/VHT20 Beam Forming, M8 to M15 4 9 -36.0 -46.5 -46.6 -42.	1 -25.5	-21.25	4.2
HT/VHT20 Beam Forming, M16 to M23 4 7 -34.8 -38.1 -36.9 -35.	3 -22.9	-21.25	1.6
HT/VHT20 STBC, M0 to M7 2 6 -33.1 -32.4	-23.7	-21.25	2.5
HT/VHT20 STBC, M0 to M7 3 6 -35.3 -39.7 -40.5	-27.1	-21.25	5.8
HT/VHT20 STBC, M0 to M7 4 6 -36.0 -46.5 -46.6 -42.	-28.5	-21.25	7.2



Conducted Bandedge Average, 5290 MHz, Non HT/VHT80, 6 to 54 Mbps

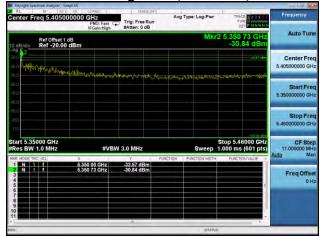


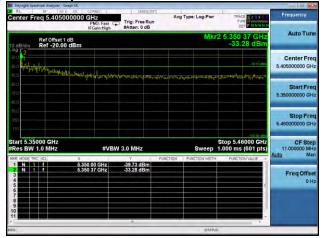


Antenna A Antenna B



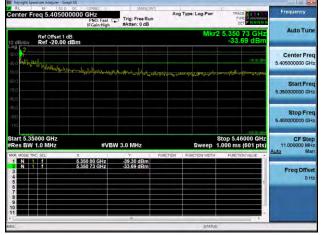
Conducted Bandedge Peak, 5310 MHz, Non HT/VHT40, 6 to 54 Mbps





Antenna A

Antenna B



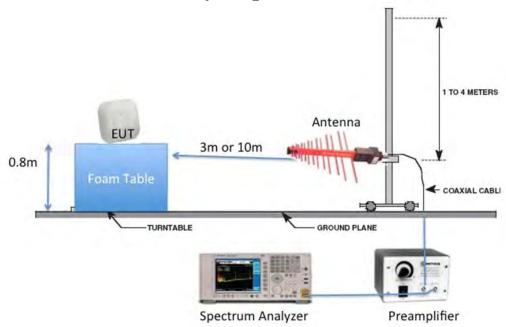
Antenna C



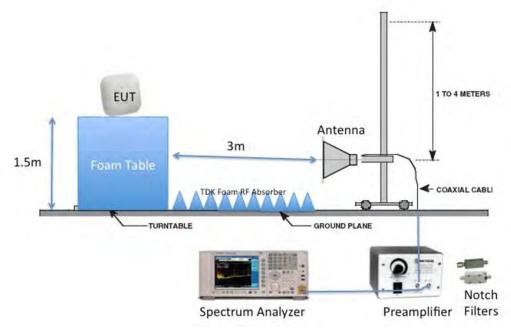
Appendix B: Emission Test Results

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:

(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.

15.205 / 15.209

- (7) The provisions of 15.205 apply to intentional radiators operating under this section.
- (6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in 15.209.

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
2	EUT	S03	\checkmark	
	Support	S04		abla

Tested By :	Date of testing:
Jose Aguirre	10-Feb-2016 to 22-Feb-2016
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	50.2	54.0	3.8
5270	HT/VHT40, M0 to M23	M0	50.4	54.0	3.6
5280	Non HT/VHT20, 6 to 54 Mbps	6	50.4	54.0	3.6
5290	HT/VHT20, M0 to M23	M0x1	50.0	54.0	4.0
5310	HT/VHT40, M0 to M23	M0	50.4	54.0	3.6
5320	Non HT/VHT20, 6 to 54 Mbps	6	50.5	54.0	3.5

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



B.1.A.2 Radiated Transmitter Spurs, 5270 MHz, HT/VHT40, M0 to M23, M0.0 to M9.4, Average (1-18GHz)





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



B.1.A.4 Radiated Transmitter Spurs, 5280 MHz, 6 to 54 Mbps, Average (1-18GHz)





B.1.A.5 Radiated Transmitter Spurs, 5310 MHz, HT/VHT40, M0 to M23, M0.0 to M9.4, Average (1-18GHz)



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









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

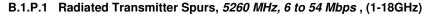


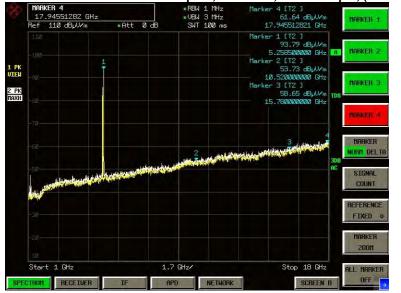


B.1.P Transmitter Radiated Spurious Emissions-Peak

			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	61.7	74.0	12.3
5270	HT/VHT40, M0 to M23	M0	61.8	74.0	12.2
5280	Non HT/VHT20, 6 to 54 Mbps	6	62.7	74.0	11.3
5290	HT/VHT20, M0 to M23	M0x1	61.7	74.0	12.3
5310	HT/VHT40, M0 to M23	M0	61.6	74.0	12.4
5320	Non HT/VHT20, 6 to 54 Mbps	6	61.2	74.0	12.8





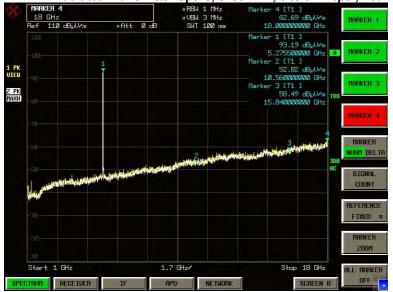


B.1.P.2 Radiated Transmitter Spurs, 5270 MHz, HT/VHT40, M0 to M23, M0.0 to M9.4, Peak (1-18GHz)





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

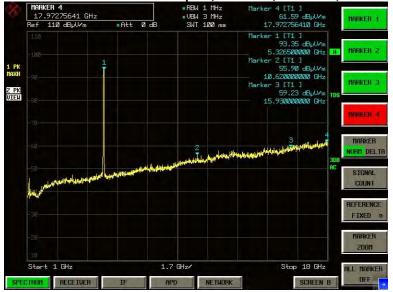


B.1.P.3 Radiated Transmitter Spurs, 5290 MHz, VHT80, M0 to M9, M0 to M9 1.1, Peak (1-18GHz)





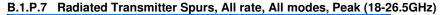
B.1.P.6 Radiated Transmitter Spurs, 5310 MHz, HT/VHT40, M0 to M23, M0.0 to M9.4, Peak (1-18GHz)



B.1.P.5 Radiated Transmitter Spurs, 5320 MHz, 6 to 54 Mbps, Peak (1-18GHz)









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





B.2 Radiated Emissions 30MHz to 1GHz

FCC 15.205 / 15.209

- (7) The provisions of 15.205 apply to intentional radiators operating under this section.
- (6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in 15.209.

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
0	EUT	S03	\checkmark	
2	Support	S04		\checkmark

Tested By :	Date of testing:		
Jose Aguirre	10-Feb-2016 to 22-Feb-2016		
Test Result : PASS			

See Appendix C for list of test equipment

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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		Level	Measurement	Р	Hgt	Azt	Limit	Margin	Pass
MHz	dBuV	Loss	AF dB	dBuV/m	Type	ol	cm	Deg	dBuV/m	dB	/Fail
54.078	20.31	0.7	7.34	28.35	Quasi Max	٧	166	0	40	-11.65	Pass
912.215	0.55	2.89	22.29	25.73	Quasi Max	٧	236	24	46	-20.27	Pass
228.545	19.53	1.43	10.94	31.9	Quasi Max	Н	180	235	46	-14.1	Pass
30	-0.48	0.49	21.7	21.72	Quasi Max	٧	280	343	40	-18.28	Pass



B.3 AC Conducted Emissions

FCC 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

System Number	Description	Samples	System under test	Support equipment
0	EUT	S03	\checkmark	
2	Support	S04		\checkmark

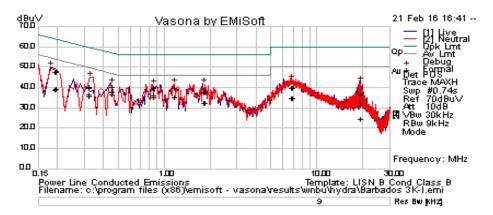
Tested By :	Date of testing:
Jose Aguirre	10-Feb-2016 to 22-Feb-2016
Test Result : PASS	

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 Results

Frequency	Raw	Cable	Factors	Level	Measurement		Limit	Margin	Pass
MHz	dBuV	Loss	dB	dBuV	Туре	Line	dBuV	dB	/Fail
0.320966	20.09	20.31	0.05	40.45	Quasi Peak	Live	59.68	-19.23	Pass
0.19578	27.1	20.86	0.05	48.02	Quasi Peak	Live	63.79	-15.77	Pass
6.845766	20.05	20.01	0.07	40.13	Quasi Peak	Live	60	-19.87	Pass
1.169166	20.05	19.9	0.04	40	Quasi Peak	Live	56	-16	Pass
0.845716	20.19	19.92	0.03	40.14	Quasi Peak	Live	56	-15.86	Pass
1.826544	18.25	19.9	0.03	38.18	Quasi Peak	Live	56	-17.82	Pass
0.449884	20.41	19.94	0.04	40.39	Quasi Peak	Live	56.88	-16.49	Pass
19.316794	16.23	20.3	0.2	36.73	Quasi Peak	Live	60	-23.27	Pass
0.193098	27.03	20.88	0.06	47.97	Quasi Peak	Neutral	63.9	-15.93	Pass
1.167132	20.1	19.9	0.04	40.05	Quasi Peak	Neutral	56	-15.95	Pass
0.451342	20.56	19.94	0.04	40.53	Quasi Peak	Neutral	56.85	-16.32	Pass
19.304428	16.11	20.3	0.2	36.61	Quasi Peak	Neutral	60	-23.39	Pass
1.805952	17.96	19.9	0.03	37.89	Quasi Peak	Neutral	56	-18.11	Pass
0.32174	19.74	20.31	0.04	40.1	Quasi Peak	Neutral	59.66	-19.56	Pass
0.840658	20.25	19.92	0.03	40.2	Quasi Peak	Neutral	56	-15.8	Pass
6.826092	19.97	20.01	0.07	40.05	Quasi Peak	Neutral	60	-19.95	Pass
0.320966	16.38	20.31	0.05	36.74	Average	Live	49.68	-12.94	Pass
0.19578	18.65	20.86	0.05	39.57	Average	Live	53.79	-14.22	Pass
6.845766	14.78	20.01	0.07	34.87	Average	Live	50	-15.13	Pass
1.169166	15.34	19.9	0.04	35.29	Average	Live	46	-10.71	Pass
0.845716	16.15	19.92	0.03	36.1	Average	Live	46	-9.9	Pass
1.826544	12.68	19.9	0.03	32.61	Average	Live	46	-13.39	Pass
0.449884	16.69	19.94	0.04	36.67	Average	Live	46.88	-10.21	Pass
19.316794	4.26	20.3	0.2	24.76	Average	Live	50	-25.24	Pass
0.193098	18.24	20.88	0.06	39.18	Average	Neutral	53.9	-14.72	Pass
1.167132	15.66	19.9	0.04	35.6	Average	Neutral	46	-10.4	Pass
0.451342	18.28	19.94	0.04	38.25	Average	Neutral	46.85	-8.6	Pass
19.304428	4.24	20.3	0.2	24.75	Average	Neutral	50	-25.25	Pass
1.805952	12.45	19.9	0.03	32.38	Average	Neutral	46	-13.62	Pass
0.32174	15.6	20.31	0.04	35.95	Average	Neutral	49.66	-13.71	Pass
0.840658	15.4	19.92	0.03	35.35	Average	Neutral	46	-10.65	Pass
6.826092	14.71	20.01	0.07	34.8	Average	Neutral	50	-15.2	Pass



Photographs of setup



Title: Conducted Test 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-AP38021-B-K9 AC Mains Conducted Emissions setup



AIR-AP38021-B-K9 Radiated Emissions setup 30MHz – 1GHz



AIR-AP3802I-B-K9 Radiated Emissions setup above 1GHz





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

Equip#	Manufacturer/ Model	Description	Last Cal	Next Due	Test Item
		Test Equipment used for Radiated Emissions	3	•	
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.1, 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, B.2
CIS054230	iBTHP-5-DB9 Newport	5 inch Temp/RH/Press Sensor w/20ft cable	10-Feb-16	10-Feb-17	B.1, B.2
CIS041979	1840 Cisco	18-40GHz EMI Test Head/Verification Fixture	13-Jul-15	13-Jul-16	B.1
CIS047299	N9030A Agilent Technologies	PXA Signal Analyzer	23-Oct-15	23-Oct-16	B.1
CIS037236	50CB-015 JFW	GPIB Control Box	Cal Not Required	Cal Not Required	B.1
CIS034075	RSG 2000 Schaffner	Reference Spectrum Generator, 1-18GHz	Cal Not Required	Cal Not Required	B.1
CIS049563	Sucoflex 106A Huber + Suhner	N Type Cable 18GHz	24-Aug-15	24-Aug-16	B.1, B.2

	Test Equipment used for AC Mains Conducted Emissions						
	Model						
Equip No	Manufacturer	Description	Last Cal	Next Cal	Test Item		
	FCC-801-M2-16				B.3		
CIS002464	Fischer Custom Communications	CDN, 2-LINE, 16A	12-Mar-15	12-Mar-16			
	H785-150K-50-21378				B.3		
CIS049532	TTE	High Pass Filter	8-May-15	8-May-16			
	FCC-LISN-PA-NEMA-5-15				B.3		
CIS020913	Fischer Custom Communications	AC Adapter	8-May-15	8-May-16			
	FCC-LISN-50/250-50-2-01				B.3		
CIS007704	Fischer Custom Communications	LISN	8-May-15	8-May-16			
	FCC-450B-2.4-N				B.3		
CIS008185	Fischer Custom Communications	Instrumentation Limiter	28-Jul-15	28-Jul-16			
	5-T-MB				B.3		
CIS051756	Bird	5W 50 Ohm BNC Termination 4GHz	6-Aug-15	6-Aug-16			
•	Sucoflex 106A				B.3		
CIS049563	Huber + Suhner	N Type Cable 18GHz	24-Aug-15	24-Aug-16			

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	UFB311A-0-2484-520520				B.3
CIS021117	Micro-Coax	RF Coaxial Cable, to 18GHz, 248.4 in	24-Aug-15	24-Aug-16	
	ESU40				B.3
CIS044940	Rohde & Schwarz	EMI Test Receiver, 20Hz-40GHz	2-Nov-15	2-Nov-16	
	33-605		Cal not	Cal not	B.3
CIS054647	Stanley	10meter Measuring Tape	required	required	
	CNE V		Cal not	Cal not	B.3
CIS018963	York	Comparison Noise Emitter, 30 - 1000MHz	required	required	

	Test Equipment used for RF Conducted Tests					
Equip No	Model Manufacturer	Description	Last Cal	Next Cal	Test Item	
Equip No	N9030A	Description	Last Cai	Next Cai	A1 thru A4	
CIS050721	Keysight	PXA Signal Analyzer	13-Apr-15	13-Apr-16	711 unu 714	
015000,21	SF18-S1S1-36	1111 Digital I mary 201	10 11p1 10	10 1101	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		
G*G0.***	RA08-S1S1-18	G1.1.1011.G1.1	25.0 45	250 46	A1 thru A4	
CIS054668	MegaPhase	SMA 18" Cable	25-Sep-15	25-Sep-16	44.4 44	
CICO54660	RA08-S1S1-18	CMA 1011 C-111.	25 G 15	25 G 16	A1 thru A4	
CIS054669	MegaPhase RA08-S1S1-12	SMA 18" Cable	25-Sep-15	25-Sep-16	A1 thru A4	
CIS054670	MegaPhase	SMA 12" Cable	25-Sep-15	25 San 16	A1 unru A4	
C13034070	RA08-S1S1-12	SWA 12 Cable	23-Sep-13	25-Sep-16	A1 thru A4	
CIS054671	MegaPhase	SMA 12" Cable	25-Sep-15	25-Sep-16	AT unu A4	
C15054071	RA08-S1S1-12	SIVIA 12 Cable	23-3cp-13	23-3cp-10	A1 thru A4	
CIS054672	MegaPhase	SMA 12" Cable	25-Sep-15	25-Sep-16	711 till till 111	
01500.072	RA08-S1S1-12	Similar Cuero	20 Sep 10	20 Sep 10	A1 thru A4	
CIS054673	MegaPhase	SMA 12" Cable	25-Sep-15	25-Sep-16	111 0110 111	
	RA08-S1S1-12				A1 thru A4	
CIS054674	MegaPhase	SMA 12" Cable	25-Sep-15	25-Sep-16		
	RA08-S1S1-12		•	•	A1 thru A4	
CIS054675	MegaPhase	SMA 12" Cable	25-Sep-15	25-Sep-16		
	RA08-S1S1-12				A1 thru A4	
CIS054677	MegaPhase	SMA 12" Cable	25-Sep-15	25-Sep-16		
	RA08-S1S1-12				A1 thru A4	
CIS054678	MegaPhase	SMA 12" Cable	25-Sep-15	25-Sep-16		
G*G0.5.4.60.6	NI PXI-2796		60.45	60.46	A1 thru A4	
CIS054686	National Instruments	Plug-in switch module	6-Oct-15	6-Oct-16	44.4 44	
GIG055004	PXI-1042	CI :	C IN A D I I	CIN D	A1 thru A4	
CIS055094	National Instruments RFLT2WDC40G	Chassis	Cal Not Required	Cal Not Required	A1 thru A4	
CIS055117	RFL12WDC40G RF Lambda	2 Way 40GHz Splitter	11-Nov-15	11-Nov-16	A1 thru A4	
C1303311/	RFLT4WDC40GK	2 Way 40GHz Splitter	11-1107-13	11-1107-10	A1 thru A4	
CIS055166	RF Lambda	4 Way Power Divider 40GHz	23-Nov-15	23-Nov-16	AI uiiu A4	
C13033100	BRC50705-02	T Way I OWEL DIVIGET 400HZ	23-INUV-13	23-1NUV-10	A1 thru A4	
CIS054656	Micro-Tronics	Band Reject Filter	24-Sep-15	24-Sep-16	AI uiiu A4	
C10027030	BRC50704-02	Notch Filter, SB:5.470-5.725GHz, to	24-3cp-13	24-5cp-10	A1 thru A4	
CIS054655	Micro-Tronics	12GHz	24-Sep-15	24-Sep-16	711 unu /1 1	

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	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

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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 ³)
EN	European Norm	MHz	MegaHertz (1x10 ⁶)
IEC	International Electro technical Commission	GHz	Gigahertz (1x10 ⁹)
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 ³)
L1	Line 1	μV	Microvolt (1x10 ⁻⁶)
L2	Line2	Α	Amp
L3	Line 3	μА	Micro Amp (1x10 ⁻⁶)
DC	Direct Current	mS	Milli Second (1x10 ⁻³)
RAW	Uncorrected measurement value, as indicated by the measuring device	μS	Micro Second (1x10 ⁻⁶)
RF	Radio Frequency	μS	Micro Second (1x10 ⁻⁶)
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