

FCC and ISEDC Test Report

Apple Inc., Model: A2304

In accordance with FCC 47 CFR Part 15E and ISEDC RSS-247 and ISEDC RSS-GEN

Prepared for: Apple Inc.
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USA

FCC ID: BCGA2304 IC: 579C-A2304

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NAME	JOB TITLE	RESPONSIBLE FOR	ISSUE DATE
Simon Bennett	Innovations Manager	Authorised Signatory	27 November 2019

Signatures in this approval box have checked this document in line with the requirements of TÜV SÜD document control rules.

ENGINEERING STATEMENT

The measurements shown in this report were made in accordance with the procedures described on test pages. All reported testing was carried out on a sample equipment to demonstrate limited compliance with FCC 47 CFR Part 15E and ISEDC RSS-247 and ISEDC RSS-GEN. The sample tested was found to comply with the requirements defined in the applied rules.

RESPONSIBLE FOR	NAME	DATE	SIGNATURE
Testing	Philip Harrison	27 November 2019	
Testing	Malik Mohammad	27 November 2019	
Testing	Cristian Onaca	27 November 2019	
Testing	Jay Balendrarajah	27 November 2019	
Testing	Ahmad Javid	27 November 2019	
Testing	Faisal Malyar	27 November 2019	
Testing	Matthew Dawkins	27 November 2019	
Testing	Connor Lee	27 November 2019	
Testing	George Porter	27 November 2019	
Testing	Nandhini Mathivanan	27 November 2019	

FCC Accreditation
90987 Octagon House, Fareham Test Laboratory

ISEDC Accreditation
12669A Octagon House, Fareham Test Laboratory

EXECUTIVE SUMMARY

A sample of this product was tested and found to be compliant with FCC 47 CFR Part 15: 2018, ISEDC RSS-247: Issue 2 (2017-02) and ISEDC RSS-GEN: Issue 5 A1 (2019-03) for the tests detailed in section 1.3.



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1 Report Summary

1.1 Report Modification Record

Alterations and additions to this report will be issued to the holders of each copy in the form of a complete document.

Issue	Description of Change	Date of Issue
1	First Issue	27 November 2019

Table 1

1.2 Introduction

Applicant	Apple Inc.
Manufacturer	Apple Inc.
Model Number(s)	A2304
Serial Number(s)	C02Z1008N0GT, C02Z1006N5VL, C02Z1007N5VN and C02Z1003N0GT
Hardware Version(s)	REV 1.0
Software Version(s)	19A564, 19A507 and 19A556
Number of Samples Tested	4
Test Specification/Issue/Date	FCC 47 CFR Part 15E: 2018 ISED RSS-247: Issue 2 (2017-02) ISED RSS-GEN: Issue 5 A1 (2019-03)
Order Number	0540176069
Date	25-February-2019
Date of Receipt of EUT	23-October-2019 and 21-October-2019
Start of Test	12-August-2019
Finish of Test	14-November-2019
Name of Engineer(s)	George Porter, Philip Harrison, Malik Mohammad, Cristian Onaca, Jay Balendrarajah, Ahmad Javid, Faisal Malyar, Matthew Dawkins, Connor Lee and Nandhini Mathivanan
Related Document(s)	ANSI C63.10 (2013) KDB 662911 D01 v02r01 KDB 905462 D02 v02



1.3 Brief Summary of Results

A brief summary of the tests carried out in accordance with FCC 47 CFR Part 15E, ISED RSS-247 and ISED RSS-GEN is shown below.

Section	Specification Clause			Test Description	Result	Comments/Base Standard
	Part 15B	RSS-247	RSS-GEN			
Configuration and Mode: 5 GHz WLAN						
2.1	15.407 (a)	6.2	-	Maximum Conducted Output Power	Pass	ANSI C63.10 (2013) KDB 662911 D01 v02r02
2.2	15.407 (a)	6.2	-	Maximum Conducted Power Spectral Density	Pass	ANSI C63.10 (2013) KDB 662911 D01 v02r02
2.3	15.407 (a)	6.2	-	Emission Bandwidth	Pass	ANSI C63.10 (2013)
2.4	15.407 (b)	6.2	-	Authorised Band Edges	Pass	ANSI C63.10 (2013)
2.5	15.205	-	8.10	Restricted Band Edges	Pass	ANSI C63.10 (2013)
2.6	15.407 (b) and 15.205	6.2	-	Spurious Radiated Emissions	Pass	ANSI C63.10 (2013)
2.7	15.407 (h)(2)(iii)(iv)	6.3.2(c)(d)(e)	-	Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period	Pass	KDB 905462 D02 v02

Table 2



1.4 Product Information

1.4.1 Technical Description

The Equipment Under Test (EUT) was a rack mounted computer, with Bluetooth, Bluetooth Low Energy and 802.11 a/b/g/n/ac capabilities in the 2.4 GHz and 5 GHz bands.

1.4.2 Test Modes

The EUT's main radio supports SISO, 2x2 MIMO and 3x3 MIMO. The Auxillary radio supports only SISO modes. Main and Aux radios are limited to transmitting only one-at-a-time in the 5 GHz bands (the other only operating simultaneously in the 2.4 GHz band). They cannot both transmit in the same 5 GHz band or across multiple 5 GHz bands simultaneously, hence no conformity tests apply for both radios simultaneously transmitting at 5 GHz as a non-contiguous combined pair. Both radios support 802.11a, n and ac modes at 20 MHz, 40 MHz, and 80 MHz channel bandwidths.

The EUT uses different output powers per core dependent on how many cores are used. The EUT also uses different power tables for Cyclic Delay Diversity (CDD), Space Division Multiplexing (SDM), and transmit beamforming (TxBF) modes. It uses the same conducted power across all cores in any given mode, but due to the different antenna gains the radiated powers per core differs.

US and CA country codes changed the power table for U-NII band 1. Therefore U-NII-1 channels were tested to both power settings for each country's respective limits.

After preliminary investigations were performed, the EUT was therefore tested in the following worst-case modes:

- Main SISO Modes (Core 2 for U-NII-1 and Core 1 for 2A / 2C / 3):
 - 802.11a
 - 802.11n HT20
 - 802.11n HT40
 - 802.11ac VHT80
- Main 2x2 MIMO Modes (Core 1+2 for U-NII-1 / 2A / 2C / 3):
 - 802.11n/ac (V)HT20* - CDD, SDM and TxBF
 - 802.11n/ac (V)HT40* - CDD, SDM and TxBF
 - 802.11ac VHT80 - CDD, SDM and TxBF
- Main 3x3 MIMO Modes (Core 0+1+2 for U-NII-1 / 2A / 2C / 3):
 - 802.11n/ac (V)HT20* - CDD, SDM and TxBF
 - 802.11n/ac (V)HT40* - CDD, SDM and TxBF
 - 802.11ac VHT80 - CDD, SDM and TxBF
- AUX Modes (SISO only on Core 2 for U-NII-1 / 2A / 2C / 3):
 - 802.11a
 - 802.11n HT20
 - 802.11n HT40
 - 802.11ac VHT80

* = 802.11n HT modes were used for CDD and SDM and 802.11ac VHT modes were used for TxBF modes.



1.4.3 Test Set-up

For conducted tests the EUT antennas were disconnected and replaced with U.FL to SMA test cables. The loss of these test cables were known and compensated for in any conducted measurements.

For transmit beamforming (TxBF) modes the EUT was set up communicating with a support notebook computer provided by the applicant, configured with custom commands to act as an access point. The test laptop was also set to a low output power (approximately 0 dBm) so in conjunction with the rest of the set-up configuration, would give negligible power at the measuring equipment and would not affect the test result. The support laptop's test network set the channel and bandwidth to which the EUT could connect. The EUT then set up a communications link to the support laptop, operating in normal communications mode but with beamforming modes forced on, with auto rate and TPC disabled via terminal commands so the EUT could be limited to worst-case modes. The EUT transmit duty cycle was then maximized by using iPerf bandwidth testing software to keep the transmit output buffer full and generate more traffic from the EUT to the support laptop than the link could sustain. The EUT therefore could fully operate its beamforming mode but with strictly controlled test parameters.

For all other testing except DFS the EUT was put into a continuous transmit test mode with the chipset manufacturer's test commands via a script running in the EUTs terminal application. The EUT then transmitted the required type of packeted 802.11 data frames of fixed length, containing the standard headers and with pseudo-random data content, ensuring the measured signals were representative and contained all the symbols at the highest power control level.

For DFS testing the EUT was connected to a test access point as shown in section 2.7. The iPerf data throughput test application was ran from the terminal to send UDP data packets from the master (access point) to the slave (EUT). The iPerf throughput rate was then adjusted to give >17 % channel loading for each test mode and operating bandwidth.



1.4.4 Antenna Gain Table

Core 0

Frequency (MHz)	Peak Gain (dBi)	Conducted Cable Loss (dB)
5150 – 5250	4.58	1.2
5250 – 5350	5.16	1.2
5470 – 5725	6.69	1.2
5725 – 5850	6.22	1.2

Table 3

Core 1

Frequency (MHz)	Peak Gain (dBi)	Conducted Cable Loss (dB)
5150 – 5250	6.1	1.2
5250 – 5350	5.98	1.2
5470 – 5725	7.59	1.2
5725 – 5850	7.31	1.2

Table 4

Core 2 / Aux

Frequency (MHz)	Peak Gain (dBi)	Conducted Cable Loss (dB)
5150 – 5250	6.27	1.2
5250 – 5350	5.38	1.2
5470 – 5725	7.52	1.2
5725 – 5850	6.87	1.2

Table 5



1.5 Deviations from the Standard

No deviations from the applicable test standard were made during testing.

1.6 EUT Modification Record

The table below details modifications made to the EUT during the test programme.

The modifications incorporated during each test are recorded on the appropriate test pages.

Modification State	Description of Modification still fitted to EUT	Modification Fitted By	Date Modification Fitted
Model: A2304: Serial Number: C02Z1003N0GT			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A2304: Serial Number: C02Z1007N5VN			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A2304: Serial Number: C02Z1006N5VL			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A2304: Serial Number: C02Z1008N0GT			
0	As supplied by the customer	Not Applicable	Not Applicable

Table 6



1.7 Test Location

TÜV SÜD conducted the following tests at our Fareham Test Laboratory.

Test Name	Name of Engineer(s)	Accreditation
Configuration and Mode: 5 GHz WLAN		
Maximum Conducted Output Power	Philip Harrison	UKAS
Maximum Conducted Power Spectral Density	Philip Harrison	UKAS
Emission Bandwidth	Philip Harrison	UKAS
Authorised Band Edges	Malik Mohammad, Cristian Onaca, Jay Balendrarajah, Ahmad Javid, Faisal Malyar, Matthew Dawkins and Connor Lee	UKAS
Restricted Band Edges	Malik Mohammad, Cristian Onaca, Jay Balendrarajah, Ahmad Javid, Faisal Malyar, Matthew Dawkins and Connor Lee	UKAS
Spurious Radiated Emissions	Malik Mohammad, Cristian Onaca, Jay Balendrarajah, Ahmad Javid, Faisal Malyar, Matthew Dawkins and Connor Lee	UKAS
Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period	Nandhini Mathivanan	UKAS

Table 7

Office Address:

Octagon House
Concorde Way
Segensworth North
Fareham
Hampshire
PO15 5RL
United Kingdom



2 Test Details

2.1 Maximum Conducted Output Power

2.1.1 Specification Reference

FCC 47 CFR Part 15E, Clause 15.407(a)
ISED RSS-247, Clause 6.2

2.1.2 Equipment Under Test and Modification State

A2304, S/N: C02Z1003N0GT - Modification State 0

2.1.3 Date of Test

23-October-2019 to 14-November-2019

2.1.4 Test Method

The test was performed in accordance with ANSI C63.10, clause 12.3.3.2 using method PM-G. Since the gated power meter was used for method PM-G the EUT was measured only while transmitting and hence no duty cycle correction was necessary.

MIMO output port summing was performed in accordance with KDB 662911 D01.

The EUT has equal conducted powers on all ports for each mode of operation, but unequal antenna gains. Therefore, for SISO and 2TX MIMO modes the EUT was tested on the ports with the highest antenna gain combinations which would result in the highest EIRP output power.

For the CDD results the directional gain was calculated in accordance with clause F)2)f)(ii) using the calculations from F)2)f)(i) with worst-case individual gain and an array gain of zero.

For SDM modes Directional Gain was calculated in accordance with clause F)2)d)(ii).

For transmit beamforming (TxBF) mode it was calculated in accordance with clause F)2)d)(i).

The 'straddle' channels which operate across the U-NII 2C and U-NII 3 boundaries are reported by comparing the total output power to the most stringent U-NII 2A band limit.

2.1.5 Environmental Conditions

Ambient Temperature	22.0 - 26.0 °C
Relative Humidity	25.2 - 49.6 %



2.1.6 Test Results: U-NII-1

Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
Antenna Directional Gain (dBi)	6.27	6.27	6.27
15.407 Conducted Power Limit (dBm)	23.73	23.73	23.73
Conducted Power (dBm)	10.93	15.24	15.24

Table 8 - 802.11a / 6 Mbps / SISO / Core 2 / Country Code US

Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
Conducted Power (dBm)	10.94	13.18	13.40
Antenna Directional Gain (dBi)	6.27	6.27	6.27
RSS-247 EIRP Power Limit (dBm)	22.22	22.24	22.23
Total EIRP (dBm)	17.22	19.45	19.67

Table 9 - 802.11a / 6 Mbps / SISO / Core 2 / Country Code CA

Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
Antenna Directional Gain (dBi)	6.27	6.27	6.27
15.407 Conducted Power Limit (dBm)	23.73	23.73	23.73
Conducted Power (dBm)	10.85	15.28	15.29

Table 10 - 802.11a / 6 Mbps / Aux Core / Country Code US

Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
Conducted Power (dBm)	10.94	15.38	15.50
Antenna Directional Gain (dBi)	6.27	6.27	6.27
RSS-247 EIRP Power Limit (dBm)	22.23	22.29	22.28
Total EIRP (dBm)	17.21	21.65	21.77

Table 11 - 802.11a / 6 Mbps / Aux Core / Country Code CA

Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
Antenna Directional Gain (dBi)	6.27	6.27	6.27
15.407 Conducted Power Limit (dBm)	23.73	23.73	23.73
Conducted Power (dBm)	10.66	15.34	15.16

Table 12 - 802.11n / HT20 MCS0 / SISO / Core 2 / Country Code US



Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
Conducted Power (dBm)	10.88	13.22	13.50
Antenna Directional Gain (dBi)	6.27	6.27	6.27
RSS-247 EIRP Power Limit (dBm)	22.52	22.53	22.53
Total EIRP (dBm)	17.15	19.49	19.77

Table 13 - 802.11n / HT20 MCS0 / SISO / Core 2 / Country Code CA

Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
Conducted Power Core 1 (dBm)	9.74	14.34	14.16
Conducted Power Core 2 (dBm)	9.93	14.45	14.40
Antenna Directional Gain (dBi)	6.27	6.27	6.27
15.407 Conducted Power Limit (dBm)	23.73	23.73	23.73
Total Conducted Power (dBm)	12.84	17.41	17.29

Table 14 - 802.11n / HT20 MCS0 / MIMO CDD / Cores 1+2 / Country Code US

Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
Conducted Power Core 1 (dBm)	7.23	7.34	7.42
Conducted Power Core 2 (dBm)	7.30	7.29	7.20
Total Conducted Power (dBm)	10.27	10.32	10.33
Antenna Directional Gain (dBi)	6.27	6.27	6.27
RSS-247 EIRP Power Limit (dBm)	22.52	22.52	22.50
Total EIRP (dBm)	16.54	16.59	16.60

Table 15 - 802.11n / HT20 MCS0 / MIMO CDD / Cores 1+2 / Country Code CA

Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
Conducted Power Core 1 (dBm)	9.72	15.46	15.28
Conducted Power Core 2 (dBm)	9.74	15.39	15.18
Antenna Directional Gain (dBi)	6.19	6.19	6.19
15.407 Conducted Power Limit (dBm)	23.81	23.81	23.81
Total Conducted Power (dBm)	12.74	18.43	18.24

Table 16 - 802.11n / HT20 MCS8 / MIMO SDM / Cores 1+2 / Country Code US



Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
Conducted Power Core 1 (dBm)	9.72	10.26	10.34
Conducted Power Core 2 (dBm)	9.77	10.17	10.42
Total Conducted Power (dBm)	12.76	13.23	13.39
Antenna Directional Gain (dBi)	6.19	6.19	6.19
RSS-247 EIRP Power Limit (dBm)	22.51	22.51	22.51
Total EIRP (dBm)	18.94	19.41	19.57

Table 17 - 802.11n / HT20 MCS8 / MIMO SDM / Cores 1+2 / Country Code CA

Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
Conducted Power Core 0 (dBm)	8.99	11.26	11.25
Conducted Power Core 1 (dBm)	8.86	11.45	11.46
Conducted Power Core 2 (dBm)	8.95	11.49	11.46
Antenna Directional Gain (dBi)	6.27	6.27	6.27
15.407 Conducted Power Limit (dBm)	23.73	23.73	23.73
Total Conducted Power (dBm)	13.71	16.17	16.16

Table 18 - 802.11n / HT20 MCS0 / MIMO CDD / Cores 0+1+2 / Country Code US

Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
Conducted Power Core 0 (dBm)	4.25	4.28	4.34
Conducted Power Core 1 (dBm)	4.37	4.40	4.20
Conducted Power Core 2 (dBm)	4.26	4.36	4.16
Total Conducted Power (dBm)	9.07	9.12	9.00
Antenna Directional Gain (dBi)	6.27	6.27	6.27
Total EIRP (dBm)	15.34	15.39	15.27
RSS-247 EIRP Power Limit (dBm)	22.51	22.52	22.50

Table 19 - 802.11n / HT20 MCS0 / MIMO CDD / Cores 0+1+2 / Country Code CA



Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
Conducted Power Core 0 (dBm)	9.68	15.45	15.33
Conducted Power Core 1 (dBm)	9.92	15.18	15.29
Conducted Power Core 2 (dBm)	9.91	15.36	15.32
Antenna Directional Gain (dBi)	5.71	5.71	5.71
15.407 Conducted Power Limit (dBm)	24.00	24.00	24.00
Total Conducted Power (dBm)	14.61	20.10	20.08

Table 20 - 802.11n / HT20 MCS16 / MIMO SDM / Cores 0+1+2 / Country Code US

Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
Conducted Power Core 0 (dBm)	8.76	8.97	8.80
Conducted Power Core 1 (dBm)	8.88	8.82	8.80
Conducted Power Core 2 (dBm)	8.93	8.86	8.91
Total Conducted Power (dBm)	13.63	13.66	13.61
Antenna Directional Gain (dBi)	5.71	5.71	5.71
Total EIRP (dBm)	19.34	19.37	19.32
RSS-247 EIRP Power Limit (dBm)	22.51	22.52	22.51

Table 21 - 802.11n / HT20 MCS16 / MIMO SDM / Cores 0+1+2 / Country Code CA

Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
Antenna Directional Gain (dBi)	6.27	6.27	6.27
15.407 Conducted Power Limit (dBm)	23.73	23.73	23.73
Conducted Power (dBm)	10.94	15.31	15.36

Table 22 - 802.11n / HT20 MCS0 / Aux Core / Country Code US

Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
Conducted Power (dBm)	10.76	15.18	15.36
Antenna Directional Gain (dBi)	6.27	6.27	6.27
RSS-247 EIRP Power Limit (dBm)	22.52	22.56	22.56
Total EIRP (dBm)	17.03	21.45	21.63

Table 23 - 802.11n / HT20 MCS0 / Aux Core / Country Code CA



Channel	Bottom	Top
Frequency (MHz)	5190	5230
Antenna Directional Gain (dBi)	6.27	6.27
15.407 Conducted Power Limit (dBm)	23.73	23.73
Conducted Power (dBm)	9.85	14.96

Table 24 - 802.11n / HT40 MCS0 / SISO / Core 2 / Country Code US

Channel	Bottom	Top
Frequency (MHz)	5190	5230
Conducted Power (dBm)	9.94	14.80
Antenna Directional Gain (dBi)	6.27	6.27
RSS-247 EIRP Power Limit (dBm)	23.00	23.00
Total EIRP (dBm)	16.21	21.07

Table 25 - 802.11n / HT40 MCS0 / SISO / Core 2 / Country Code CA

Channel	Bottom	Top
Frequency (MHz)	5190	5230
Conducted Power Core 1 (dBm)	7.72	14.65
Conducted Power Core 2 (dBm)	7.94	14.69
Antenna Directional Gain (dBi)	6.27	6.27
15.407 Conducted Power Limit (dBm)	23.73	23.73
Total Conducted Power (dBm)	10.84	17.68

Table 26 - 802.11n / HT40 MCS0 / MIMO CDD / Cores 1+2 / Country Code US

Channel	Bottom	Top
Frequency (MHz)	5190	5230
Conducted Power Core 1 (dBm)	7.71	10.35
Conducted Power Core 2 (dBm)	7.97	10.48
Total Conducted Power (dBm)	10.85	13.43
Antenna Directional Gain (dBi)	6.27	6.27
RSS-247 EIRP Power Limit (dBm)	23.00	23.00
Total EIRP (dBm)	17.12	19.70

Table 27 - 802.11n / HT40 MCS0 / MIMO CDD / Cores 1+2 / Country Code CA



Channel	Bottom	Top
Frequency (MHz)	5190	5230
Conducted Power Core 1 (dBm)	9.39	14.71
Conducted Power Core 2 (dBm)	9.40	14.86
Antenna Directional Gain (dBi)	6.19	6.19
15.407 Conducted Power Limit (dBm)	23.81	23.81
Total Conducted Power (dBm)	12.41	17.80

Table 28 - 802.11n / HT40 MCS8 / MIMO SDM / Cores 1+2 / Country Code US

Channel	Bottom	Top
Frequency (MHz)	5190	5230
Conducted Power Core 1 (dBm)	9.47	12.47
Conducted Power Core 2 (dBm)	9.38	12.72
Total Conducted Power (dBm)	12.44	15.61
Antenna Directional Gain (dBi)	6.19	6.19
RSS-247 EIRP Power Limit (dBm)	23.00	23.00
Total EIRP (dBm)	18.62	21.79

Table 29 - 802.11n / HT40 MCS8 / MIMO SDM / Cores 1+2 / Country Code CA

Channel	Bottom	Top
Frequency (MHz)	5190	5230
Conducted Power Core 0 (dBm)	7.75	14.42
Conducted Power Core 1 (dBm)	7.78	14.36
Conducted Power Core 2 (dBm)	7.94	14.18
Antenna Directional Gain (dBi)	6.27	6.27
15.407 Conducted Power Limit (dBm)	23.73	23.73
Total Conducted Power (dBm)	12.60	19.09

Table 30 - 802.11n / HT40 MCS0 / MIMO CDD / Cores 0+1+2 / Country Code US

Channel	Bottom	Top
Frequency (MHz)	5190	5230
Conducted Power Core 0 (dBm)	7.45	7.47
Conducted Power Core 1 (dBm)	7.22	7.21
Conducted Power Core 2 (dBm)	7.17	7.37
Total Conducted Power (dBm)	12.05	12.12
Antenna Directional Gain (dBi)	6.27	6.27
Total EIRP (dBm)	18.32	18.39
RSS-247 EIRP Power Limit (dBm)	23.00	23.00

Table 31 - 802.11n / HT40 MCS0 / MIMO CDD / Cores 0+1+2 / Country Code CA



Channel	Bottom	Top
Frequency (MHz)	5190	5230
Conducted Power Core 0 (dBm)	9.18	14.98
Conducted Power Core 1 (dBm)	9.15	14.70
Conducted Power Core 2 (dBm)	9.08	14.94
Antenna Directional Gain (dBi)	5.71	5.71
15.407 Conducted Power Limit (dBm)	24.00	24.00
Total Conducted Power (dBm)	13.91	19.64

Table 32 - 802.11n / HT40 MCS16 / MIMO SDM / Cores 0+1+2 / Country Code US

Channel	Bottom	Top
Frequency (MHz)	5190	5230
Conducted Power Core 0 (dBm)	9.16	10.92
Conducted Power Core 1 (dBm)	8.99	11.08
Conducted Power Core 2 (dBm)	9.06	11.12
Total Conducted Power (dBm)	13.84	15.81
Antenna Directional Gain (dBi)	5.71	5.71
Total EIRP (dBm)	19.56	21.52
RSS-247 EIRP Power Limit (dBm)	23.00	23.00

Table 33 - 802.11n / HT40 MCS16 / MIMO SDM / Cores 0+1+2 / Country Code CA

Channel	Bottom	Top
Frequency (MHz)	5190	5230
Antenna Directional Gain (dBi)	6.27	6.27
15.407 Conducted Power Limit (dBm)	23.73	23.73
Conducted Power (dBm)	10.76	14.71

Table 34 - 802.11n / HT40 MCS0 / Aux Core / Country Code US

Channel	Bottom	Top
Frequency (MHz)	5190	5230
Conducted Power (dBm)	10.98	14.86
Antenna Directional Gain (dBi)	6.27	6.27
RSS-247 EIRP Power Limit (dBm)	23.00	23.00
Total EIRP (dBm)	17.25	21.12

Table 35 - 802.11n / HT40 MCS0 / Aux Core / Country Code CA



Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
Conducted Power Core 1 (dBm)	8.91	14.19	14.47
Conducted Power Core 2 (dBm)	8.89	14.48	14.43
Antenna Directional Gain (dBi)	9.20	9.20	9.20
15.407 Conducted Power Limit (dBm)	20.80	20.80	20.80
Total Conducted Power (dBm)	11.91	17.35	17.46

Table 36 - 802.11ac / VHT20 MCS0x1 / MIMO TxBF / Cores 1+2 / Country Code US

Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
Conducted Power Core 1 (dBm)	7.50	7.29	7.49
Conducted Power Core 2 (dBm)	7.35	7.40	7.40
Total Conducted Power (dBm)	10.44	10.36	10.46
Antenna Directional Gain (dBi)	9.20	9.20	9.20
RSS-247 EIRP Power Limit (dBm)	22.43	22.43	22.43
Total EIRP (dBm)	19.63	19.55	19.65

Table 37 - 802.11ac / VHT20 MCS0x1 / MIMO TxBF / Cores 1+2 / Country Code CA

Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
Conducted Power Core 0 (dBm)	7.49	11.39	11.20
Conducted Power Core 1 (dBm)	7.46	11.47	11.38
Conducted Power Core 2 (dBm)	7.16	11.18	11.36
Antenna Directional Gain (dBi)	10.45	10.45	10.45
15.407 Conducted Power Limit (dBm)	19.55	19.55	19.55
Total Conducted Power (dBm)	12.14	16.12	16.09

Table 38 - 802.11ac / VHT20 MCS0x1 / MIMO TxBF / Cores 0+1+2 / Country Code US

Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
Conducted Power Core 0 (dBm)	4.28	4.36	4.43
Conducted Power Core 1 (dBm)	4.47	4.37	4.32
Conducted Power Core 2 (dBm)	4.46	4.40	4.34
Total Conducted Power (dBm)	9.17	9.15	9.14
Antenna Directional Gain (dBi)	10.45	10.45	10.45
Total EIRP (dBm)	19.63	19.60	19.59
RSS-247 EIRP Power Limit (dBm)	22.43	22.44	22.43

Table 39 - 802.11ac / VHT20 MCS0x1 / MIMO TxBF / Cores 0+1+2 / Country Code CA



Channel	Bottom	Top
Frequency (MHz)	5190	5230
Conducted Power Core 1 (dBm)	6.87	13.92
Conducted Power Core 2 (dBm)	6.73	13.92
Antenna Directional Gain (dBi)	9.20	9.20
15.407 Conducted Power Limit (dBm)	20.80	20.80
Total Conducted Power (dBm)	9.81	16.93

Table 40 - 802.11ac / VHT40 MCS0x1 / MIMO TxBF / Cores 1+2 / Country Code US

Channel	Bottom	Top
Frequency (MHz)	5190	5230
Conducted Power Core 1 (dBm)	6.96	9.52
Conducted Power Core 2 (dBm)	6.73	9.43
Total Conducted Power (dBm)	9.86	12.48
Antenna Directional Gain (dBi)	9.20	9.20
RSS-247 EIRP Power Limit (dBm)	23.00	23.00
Total EIRP (dBm)	19.05	21.68

Table 41 - 802.11ac / VHT40 MCS0x1 / MIMO TxBF / Cores 1+2 / Country Code CA

Channel	Bottom	Top
Frequency (MHz)	5190	5230
Conducted Power Core 0 (dBm)	6.17	12.98
Conducted Power Core 1 (dBm)	6.44	12.95
Conducted Power Core 2 (dBm)	6.31	12.94
Antenna Directional Gain (dBi)	10.45	10.45
15.407 Conducted Power Limit (dBm)	19.55	19.55
Total Conducted Power (dBm)	11.08	17.73

Table 42 - 802.11ac / VHT40 MCS0x1 / MIMO TxBF / Cores 0+1+2 / Country Code US

Channel	Bottom	Top
Frequency (MHz)	5190	5230
Conducted Power Core 0 (dBm)	6.25	6.44
Conducted Power Core 1 (dBm)	6.19	6.31
Conducted Power Core 2 (dBm)	6.33	6.44
Total Conducted Power (dBm)	11.03	11.17
Antenna Directional Gain (dBi)	10.45	10.45
Total EIRP (dBm)	21.48	21.63
RSS-247 EIRP Power Limit (dBm)	23.00	23.00

Table 43 - 802.11ac / VHT40 MCS0x1 / MIMO TxBF / Cores 0+1+2 / Country Code CA



Channel	Middle
Frequency (MHz)	5210
Antenna Directional Gain (dBi)	6.27
15.407 Conducted Power Limit (dBm)	23.73
Conducted Power (dBm)	9.09

Table 44 - 802.11ac / VHT80 MCS0x1 / SISO / Core 2 / Country Code US

Channel	Middle
Frequency (MHz)	5210
Conducted Power (dBm)	9.17
Antenna Directional Gain (dBi)	6.27
RSS-247 EIRP Power Limit (dBm)	23.00
Total EIRP (dBm)	15.44

Table 45 - 802.11ac / VHT80 MCS0x1 / SISO / Core 2 / Country Code CA

Channel	Middle
Frequency (MHz)	5210
Conducted Power Core 1 (dBm)	7.50
Conducted Power Core 2 (dBm)	7.34
Antenna Directional Gain (dBi)	6.27
15.407 Conducted Power Limit (dBm)	23.73
Total Conducted Power (dBm)	10.43

Table 46 - 802.11ac / VHT80 MCS0x1 / MIMO CDD / Cores 1+2 / Country Code US

Channel	Middle
Frequency (MHz)	5210
Conducted Power Core 1 (dBm)	7.41
Conducted Power Core 2 (dBm)	7.19
Total Conducted Power (dBm)	10.31
Antenna Directional Gain (dBi)	6.27
RSS-247 EIRP Power Limit (dBm)	23.00
Total EIRP (dBm)	16.58

Table 47 - 802.11ac / VHT80 MCS0x1 / MIMO CDD / Cores 1+2 / Country Code CA



Channel	Middle
Frequency (MHz)	5210
Conducted Power Core 1 (dBm)	8.35
Conducted Power Core 2 (dBm)	8.29
Antenna Directional Gain (dBi)	6.19
15.407 Conducted Power Limit (dBm)	23.81
Total Conducted Power (dBm)	11.33

Table 48 - 802.11ac / VHT80 MCS0x2 / MIMO SDM / Cores 1+2 / Country Code US

Channel	Middle
Frequency (MHz)	5210
Conducted Power Core 1 (dBm)	8.32
Conducted Power Core 2 (dBm)	8.30
Total Conducted Power (dBm)	11.32
Antenna Directional Gain (dBi)	6.19
RSS-247 EIRP Power Limit (dBm)	23.00
Total EIRP (dBm)	17.50

Table 49 - 802.11ac / VHT80 MCS0x2 / MIMO SDM / Cores 1+2 / Country Code CA

Channel	Middle
Frequency (MHz)	5210
Conducted Power Core 1 (dBm)	6.28
Conducted Power Core 2 (dBm)	6.30
Antenna Directional Gain (dBi)	9.20
15.407 Conducted Power Limit (dBm)	20.80
Total Conducted Power (dBm)	9.30

Table 50 - 802.11ac / VHT80 MCS0x1 / MIMO TxBF / Cores 1+2 / Country Code US

Channel	Middle
Frequency (MHz)	5210
Conducted Power Core 1 (dBm)	6.20
Conducted Power Core 2 (dBm)	6.25
Total Conducted Power (dBm)	9.24
Antenna Directional Gain (dBi)	9.20
RSS-247 EIRP Power Limit (dBm)	23.00
Total EIRP (dBm)	18.43

Table 51 - 802.11ac / VHT80 MCS0x1 / MIMO TxBF / Cores 1+2 / Country Code CA



Channel	Middle
Frequency (MHz)	5210
Conducted Power Core 0 (dBm)	6.16
Conducted Power Core 1 (dBm)	6.25
Conducted Power Core 2 (dBm)	6.20
Antenna Directional Gain (dBi)	6.27
15.407 Conducted Power Limit (dBm)	23.73
Total Conducted Power (dBm)	10.97

Table 52 - 802.11ac / VHT80 MCS0x1 / MIMO CDD / Cores 0+1+2 / Country Code US

Channel	Middle
Frequency (MHz)	5210
Conducted Power Core 0 (dBm)	6.47
Conducted Power Core 1 (dBm)	6.28
Conducted Power Core 2 (dBm)	6.50
Total Conducted Power (dBm)	11.19
Antenna Directional Gain (dBi)	6.27
Total EIRP (dBm)	17.46
RSS-247 EIRP Power Limit (dBm)	23.00

Table 53 - 802.11ac / VHT80 MCS0x1 / MIMO CDD / Cores 0+1+2 / Country Code CA

Channel	Middle
Frequency (MHz)	5210
Conducted Power Core 0 (dBm)	7.60
Conducted Power Core 1 (dBm)	7.74
Conducted Power Core 2 (dBm)	7.51
Antenna Directional Gain (dBi)	5.71
15.407 Conducted Power Limit (dBm)	24.00
Total Conducted Power (dBm)	12.39

Table 54 - 802.11ac / VHT80 MCS0x3 / MIMO SDM / Cores 0+1+2 / Country Code US



Channel	Middle
Frequency (MHz)	5210
Conducted Power Core 0 (dBm)	7.62
Conducted Power Core 1 (dBm)	7.70
Conducted Power Core 2 (dBm)	7.74
Total Conducted Power (dBm)	12.46
Antenna Directional Gain (dBi)	5.71
Total EIRP (dBm)	18.17
RSS-247 EIRP Power Limit (dBm)	23.00

Table 55 - 802.11ac / VHT80 MCS0x3 / MIMO SDM / Cores 0+1+2 / Country Code CA

Channel	Middle
Frequency (MHz)	5210
Conducted Power Core 0 (dBm)	4.87
Conducted Power Core 1 (dBm)	4.83
Conducted Power Core 2 (dBm)	4.69
Antenna Directional Gain (dBi)	10.45
15.407 Conducted Power Limit (dBm)	19.55
Total Conducted Power (dBm)	9.57

Table 56 - 802.11ac / VHT80 MCS0x1 / MIMO TxBF / Cores 0+1+2 / Country Code US

Channel	Middle
Frequency (MHz)	5210
Conducted Power Core 0 (dBm)	4.86
Conducted Power Core 1 (dBm)	4.83
Conducted Power Core 2 (dBm)	4.88
Total Conducted Power (dBm)	9.63
Antenna Directional Gain (dBi)	10.45
Total EIRP (dBm)	20.08
RSS-247 EIRP Power Limit (dBm)	23.00

Table 57 - 802.11ac / VHT80 MCS0x1 / MIMO TxBF / Cores 0+1+2 / Country Code CA

Channel	Middle
Frequency (MHz)	5210
Antenna Directional Gain (dBi)	6.27
15.407 Conducted Power Limit (dBm)	23.73
Conducted Power (dBm)	10.20

Table 58 - 802.11ac / VHT80 MCS0x1 / Aux Core / Country Code US



Channel	Middle
Frequency (MHz)	5210
Conducted Power (dBm)	10.31
Antenna Directional Gain (dBi)	6.27
RSS-247 EIRP Power Limit (dBm)	23.00
Total EIRP (dBm)	16.58

Table 59 - 802.11ac / VHT80 MCS0x1 / Aux Core / Country Code CA



2.1.7 Test Results: U-NII-2A

Channel	Bottom	Middle	Top
Frequency (MHz)	5260	5280	5320
Antenna Directional Gain (dBi)	5.98	5.98	5.98
15.407 Conducted Power Limit (dBm)	24.00	24.00	24.00
RSS-247 Conducted Power Limit (dBm)	23.28	23.30	23.23
Conducted Power (dBm)	15.43	15.38	12.04
15.407 TPC EIRP Limit (dBm)	30.00	30.00	30.00
RSS-247 TPC EIRP Limit (dBm)	29.28	29.30	29.23
EIRP Power (dBm)	21.41	21.36	18.02

Table 60 - 802.11a / 6 Mbps / SISO / Core 1

Channel	Bottom	Middle	Top
Frequency (MHz)	5260	5280	5320
Antenna Directional Gain (dBi)	5.38	5.38	5.38
15.407 Conducted Power Limit (dBm)	24.00	24.00	24.00
RSS-247 Conducted Power Limit (dBm)	23.28	23.31	23.23
Conducted Power (dBm)	15.26	15.32	11.96
15.407 TPC EIRP Limit (dBm)	30.00	30.00	30.00
RSS-247 TPC EIRP Limit (dBm)	29.28	29.31	29.23
EIRP Power (dBm)	20.64	20.70	17.34

Table 61 - 802.11a / 6 Mbps / Aux Core

Channel	Bottom	Middle	Top
Frequency (MHz)	5260	5280	5320
Antenna Directional Gain (dBi)	5.98	5.98	5.98
15.407 Conducted Power Limit (dBm)	24.00	24.00	24.00
RSS-247 Conducted Power Limit (dBm)	23.57	23.57	23.53
Conducted Power (dBm)	15.32	15.20	12.09
15.407 TPC EIRP Limit (dBm)	30.00	30.00	30.00
RSS-247 TPC EIRP Limit (dBm)	29.57	29.57	29.53
EIRP Power (dBm)	21.30	21.18	18.07

Table 62 - 802.11n / HT20 MCS0 / SISO / Core 1



Channel	Bottom	Middle	Top
Frequency (MHz)	5260	5280	5320
Conducted Power Core 1 (dBm)	14.73	14.80	9.81
Conducted Power Core 2 (dBm)	14.89	14.86	9.75
Antenna Directional Gain (dBi)	5.98	5.98	5.98
15.407 Conducted Power Limit (dBm)	24.00	24.00	24.00
RSS-247 Conducted Power Limit (dBm)	23.57	23.56	23.51
Total Conducted Power (dBm)	17.82	17.84	12.79
15.407 TPC EIRP Limit (dBm)	30.00	30.00	30.00
RSS-247 TPC EIRP Limit (dBm)	29.57	29.56	29.51
EIRP Power (dBm)	23.80	23.82	18.77

Table 63 - 802.11n / HT20 MCS0 / MIMO CDD / Cores 1+2

Channel	Bottom	Middle	Top
Frequency (MHz)	5260	5280	5320
Conducted Power Core 1 (dBm)	15.25	15.41	11.39
Conducted Power Core 2 (dBm)	15.20	15.37	11.21
Antenna Directional Gain (dBi)	5.69	5.69	5.69
15.407 Conducted Power Limit (dBm)	24.00	24.00	24.00
RSS-247 Conducted Power Limit (dBm)	23.57	23.57	23.51
Total Conducted Power (dBm)	18.24	18.40	14.31
15.407 TPC EIRP Limit (dBm)	30.00	30.00	30.00
RSS-247 TPC EIRP Limit (dBm)	29.57	29.57	29.51
EIRP Power (dBm)	23.93	24.09	20.00

Table 64 - 802.11n / HT20 MCS8 / MIMO SDM / Cores 1+2

Channel	Bottom	Middle	Top
Frequency (MHz)	5260	5280	5320
Conducted Power Core 0 (dBm)	11.86	11.77	8.67
Conducted Power Core 1 (dBm)	11.78	11.86	8.76
Conducted Power Core 2 (dBm)	11.81	11.78	8.72
Antenna Directional Gain (dBi)	5.98	5.98	5.98
15.407 Conducted Power Limit (dBm)	24.00	24.00	24.00
RSS-247 Conducted Power Limit (dBm)	23.52	23.52	23.52
Total Conducted Power (dBm)	16.59	16.57	13.49
15.407 TPC EIRP Limit (dBm)	30.00	30.00	30.00
RSS-247 TPC EIRP Limit (dBm)	29.52	29.52	29.52
EIRP Power (dBm)	22.57	22.55	19.47

Table 65 - 802.11n / HT20 MCS0 / MIMO CDD / Cores 0+1+2



Channel	Bottom	Middle	Top
Frequency (MHz)	5260	5280	5320
Conducted Power Core 0 (dBm)	15.20	15.37	8.95
Conducted Power Core 1 (dBm)	15.48	15.19	8.89
Conducted Power Core 2 (dBm)	15.16	15.25	8.82
Antenna Directional Gain (dBi)	5.52	5.52	5.52
15.407 Conducted Power Limit (dBm)	24.00	24.00	24.00
RSS-247 Conducted Power Limit (dBm)	23.60	23.58	23.51
Total Conducted Power (dBm)	20.05	20.04	13.66
15.407 TPC EIRP Limit (dBm)	30.00	30.00	30.00
RSS-247 TPC EIRP Limit (dBm)	29.60	29.58	29.51
EIRP Power (dBm)	25.57	25.56	19.18

Table 66 - 802.11n / HT20 MCS16 / MIMO SDM / Cores 0+1+2

Channel	Bottom	Middle	Top
Frequency (MHz)	5260	5280	5320
Antenna Directional Gain (dBi)	5.38	5.38	5.38
15.407 Conducted Power Limit (dBm)	24.00	24.00	24.00
RSS-247 Conducted Power Limit (dBm)	23.57	23.58	23.53
Conducted Power (dBm)	15.22	15.19	11.77
15.407 TPC EIRP Limit (dBm)	30.00	30.00	30.00
RSS-247 TPC EIRP Limit (dBm)	29.57	29.58	29.53
EIRP Power (dBm)	20.60	20.57	17.15

Table 67 - 802.11n / HT20 MCS0 / Aux Core

Channel	Bottom	Top
Frequency (MHz)	5270	5310
Antenna Directional Gain (dBi)	5.98	5.98
15.407 Conducted Power Limit (dBm)	24.00	24.00
RSS-247 Conducted Power Limit (dBm)	24.00	24.00
Conducted Power (dBm)	14.78	8.72
15.407 TPC EIRP Limit (dBm)	30.00	30.00
RSS-247 TPC EIRP Limit (dBm)	30.00	30.00
EIRP Power (dBm)	20.76	14.70

Table 68 - 802.11n / HT40 MCS0 / SISO / Core 1



Channel	Bottom	Top
Frequency (MHz)	5270	5310
Conducted Power Core 1 (dBm)	14.22	8.43
Conducted Power Core 2 (dBm)	13.95	8.38
Antenna Directional Gain (dBi)	5.98	5.98
15.407 Conducted Power Limit (dBm)	24.00	24.00
RSS-247 Conducted Power Limit (dBm)	24.00	24.00
Total Conducted Power (dBm)	17.10	11.41
15.407 TPC EIRP Limit (dBm)	30.00	30.00
RSS-247 TPC EIRP Limit (dBm)	30.00	30.00
EIRP Power (dBm)	23.08	17.39

Table 69 - 802.11n / HT40 MCS0 / MIMO CDD / Cores 1+2

Channel	Bottom	Top
Frequency (MHz)	5270	5310
Conducted Power Core 1 (dBm)	14.43	8.76
Conducted Power Core 2 (dBm)	14.19	8.76
Antenna Directional Gain (dBi)	5.69	5.69
15.407 Conducted Power Limit (dBm)	24.00	24.00
RSS-247 Conducted Power Limit (dBm)	24.00	24.00
Total Conducted Power (dBm)	17.32	11.77
15.407 TPC EIRP Limit (dBm)	30.00	30.00
RSS-247 TPC EIRP Limit (dBm)	30.00	30.00
EIRP Power (dBm)	23.01	17.46

Table 70 - 802.11n / HT40 MCS8 / MIMO SDM / Cores 1+2

Channel	Bottom	Top
Frequency (MHz)	5270	5310
Conducted Power Core 0 (dBm)	13.21	8.50
Conducted Power Core 1 (dBm)	13.36	8.23
Conducted Power Core 2 (dBm)	13.31	8.26
Antenna Directional Gain (dBi)	5.98	5.98
15.407 Conducted Power Limit (dBm)	24.00	24.00
RSS-247 Conducted Power Limit (dBm)	24.00	24.00
Total Conducted Power (dBm)	18.06	13.10
15.407 TPC EIRP Limit (dBm)	30.00	30.00
RSS-247 TPC EIRP Limit (dBm)	30.00	30.00
EIRP Power (dBm)	24.04	19.08

Table 71 - 802.11n / HT40 MCS0 / MIMO CDD / Cores 0+1+2



Channel	Bottom	Top
Frequency (MHz)	5270	5310
Conducted Power Core 0 (dBm)	13.75	8.77
Conducted Power Core 1 (dBm)	13.94	8.83
Conducted Power Core 2 (dBm)	13.80	9.00
Antenna Directional Gain (dBi)	5.52	5.52
15.407 Conducted Power Limit (dBm)	24.00	24.00
RSS-247 Conducted Power Limit (dBm)	24.00	24.00
Total Conducted Power (dBm)	18.60	13.64
15.407 TPC EIRP Limit (dBm)	30.00	30.00
RSS-247 TPC EIRP Limit (dBm)	30.00	30.00
EIRP Power (dBm)	24.12	19.16

Table 72 - 802.11n / HT40 MCS16 / MIMO SDM / Cores 0+1+2

Channel	Bottom	Top
Frequency (MHz)	5270	5310
Antenna Directional Gain (dBi)	5.38	5.38
15.407 Conducted Power Limit (dBm)	24.00	24.00
RSS-247 Conducted Power Limit (dBm)	24.00	24.00
Conducted Power (dBm)	14.72	11.29
15.407 TPC EIRP Limit (dBm)	30.00	30.00
RSS-247 TPC EIRP Limit (dBm)	30.00	30.00
EIRP Power (dBm)	20.10	16.67

Table 73 - 802.11n / HT40 MCS0 / Aux Core

Channel	Bottom	Middle	Top
Frequency (MHz)	5260	5280	5320
Conducted Power Core 1 (dBm)	14.87	14.78	8.97
Conducted Power Core 2 (dBm)	14.98	14.69	8.92
Antenna Directional Gain (dBi)	8.70	8.70	8.70
15.407 Conducted Power Limit (dBm)	21.30	21.30	21.30
RSS-247 Conducted Power Limit (dBm)	23.45	23.45	23.43
Total Conducted Power (dBm)	17.93	17.75	11.95
15.407 TPC EIRP Limit (dBm)	30.00	30.00	30.00
RSS-247 TPC EIRP Limit (dBm)	29.45	29.45	29.43
EIRP Power (dBm)	26.63	26.44	20.65

Table 74 - 802.11ac / VHT20 MCS0x1 / MIMO TxBF / Cores 1+2



Channel	Bottom	Middle	Top
Frequency (MHz)	5260	5280	5320
Conducted Power Core 0 (dBm)	11.80	11.72	7.34
Conducted Power Core 1 (dBm)	11.82	11.81	7.49
Conducted Power Core 2 (dBm)	11.77	11.95	7.36
Antenna Directional Gain (dBi)	10.28	10.28	10.28
15.407 Conducted Power Limit (dBm)	19.72	19.72	19.72
RSS-247 Conducted Power Limit (dBm)	23.45	23.45	23.44
Total Conducted Power (dBm)	16.57	16.60	12.17
15.407 TPC EIRP Limit (dBm)	30.00	30.00	30.00
RSS-247 TPC EIRP Limit (dBm)	29.45	29.45	29.44
EIRP Power (dBm)	26.85	26.89	22.45

Table 75 - 802.11ac / VHT20 MCS0x1 / MIMO TxBF / Cores 0+1+2

Channel	Bottom	Top
Frequency (MHz)	5270	5310
Conducted Power Core 1 (dBm)	13.10	7.24
Conducted Power Core 2 (dBm)	13.09	7.43
Antenna Directional Gain (dBi)	8.70	8.70
15.407 Conducted Power Limit (dBm)	21.30	21.30
RSS-247 Conducted Power Limit (dBm)	24.00	24.00
Total Conducted Power (dBm)	16.11	10.35
15.407 TPC EIRP Limit (dBm)	30.00	30.00
RSS-247 TPC EIRP Limit (dBm)	30.00	30.00
EIRP Power (dBm)	24.80	19.04

Table 76 - 802.11ac / VHT40 MCS0x1 / MIMO TxBF / Cores 1+2



Channel	Bottom	Top
Frequency (MHz)	5270	5310
Conducted Power Core 0 (dBm)	11.67	6.65
Conducted Power Core 1 (dBm)	11.92	6.90
Conducted Power Core 2 (dBm)	11.98	6.92
Antenna Directional Gain (dBi)	10.28	10.28
15.407 Conducted Power Limit (dBm)	19.72	19.72
RSS-247 Conducted Power Limit (dBm)	24.00	24.00
Total Conducted Power (dBm)	16.63	11.60
15.407 TPC EIRP Limit (dBm)	30.00	30.00
RSS-247 TPC EIRP Limit (dBm)	30.00	30.00
EIRP Power (dBm)	26.91	21.88

Table 77 - 802.11ac / VHT40 MCS0x1 / MIMO TxBF / Cores 0+1+2

Channel	Middle
Frequency (MHz)	5290
Antenna Directional Gain (dBi)	5.98
15.407 Conducted Power Limit (dBm)	24.00
RSS-247 Conducted Power Limit (dBm)	24.00
Conducted Power (dBm)	8.76
15.407 TPC EIRP Limit (dBm)	30.00
RSS-247 TPC EIRP Limit (dBm)	30.00
EIRP Power (dBm)	14.74

Table 78 - 802.11ac / VHT80 MCS0x1 / SISO / Core 1

Channel	Middle
Frequency (MHz)	5290
Conducted Power Core 1 (dBm)	6.76
Conducted Power Core 2 (dBm)	6.68
Antenna Directional Gain (dBi)	5.98
15.407 Conducted Power Limit (dBm)	24.00
RSS-247 Conducted Power Limit (dBm)	24.00
Total Conducted Power (dBm)	9.73
15.407 TPC EIRP Limit (dBm)	30.00
RSS-247 TPC EIRP Limit (dBm)	30.00
EIRP Power (dBm)	15.71

Table 79 - 802.11ac / VHT80 MCS0x1 / MIMO CDD / Cores 1+2



Channel	Middle
Frequency (MHz)	5290
Conducted Power Core 1 (dBm)	8.87
Conducted Power Core 2 (dBm)	8.68
Antenna Directional Gain (dBi)	5.69
15.407 Conducted Power Limit (dBm)	24.00
RSS-247 Conducted Power Limit (dBm)	24.00
Total Conducted Power (dBm)	11.79
15.407 TPC EIRP Limit (dBm)	30.00
RSS-247 TPC EIRP Limit (dBm)	30.00
EIRP Power (dBm)	17.48

Table 80 - 802.11ac / VHT80 MCS0x2 / MIMO SDM / Cores 1+2

Channel	Middle
Frequency (MHz)	5290
Conducted Power Core 1 (dBm)	5.83
Conducted Power Core 2 (dBm)	5.66
Antenna Directional Gain (dBi)	8.70
15.407 Conducted Power Limit (dBm)	21.30
RSS-247 Conducted Power Limit (dBm)	24.00
Total Conducted Power (dBm)	8.76
15.407 TPC EIRP Limit (dBm)	30.00
RSS-247 TPC EIRP Limit (dBm)	30.00
EIRP Power (dBm)	17.45

Table 81 - 802.11ac / VHT80 MCS0x1 / MIMO TxBF / Cores 1+2

Channel	Middle
Frequency (MHz)	5290
Conducted Power Core 0 (dBm)	6.90
Conducted Power Core 1 (dBm)	6.78
Conducted Power Core 2 (dBm)	6.70
Antenna Directional Gain (dBi)	5.98
15.407 Conducted Power Limit (dBm)	24.00
RSS-247 Conducted Power Limit (dBm)	24.00
Total Conducted Power (dBm)	11.57
15.407 TPC EIRP Limit (dBm)	30.00
RSS-247 TPC EIRP Limit (dBm)	30.00
EIRP Power (dBm)	17.55

Table 82 - 802.11ac / VHT80 MCS0x1 / MIMO CDD / Cores 0+1+2



Channel	Middle
Frequency (MHz)	5290
Conducted Power Core 0 (dBm)	8.81
Conducted Power Core 1 (dBm)	8.86
Conducted Power Core 2 (dBm)	8.98
Antenna Directional Gain (dBi)	5.52
15.407 Conducted Power Limit (dBm)	24.00
RSS-247 Conducted Power Limit (dBm)	24.00
Total Conducted Power (dBm)	13.65
15.407 TPC EIRP Limit (dBm)	30.00
RSS-247 TPC EIRP Limit (dBm)	30.00
EIRP Power (dBm)	19.17

Table 83 - 802.11ac / VHT80 MCS0x3 / MIMO SDM / Cores 0+1+2

Channel	Middle
Frequency (MHz)	5290
Conducted Power Core 0 (dBm)	5.34
Conducted Power Core 1 (dBm)	5.31
Conducted Power Core 2 (dBm)	5.50
Antenna Directional Gain (dBi)	10.28
15.407 Conducted Power Limit (dBm)	19.72
RSS-247 Conducted Power Limit (dBm)	24.00
Total Conducted Power (dBm)	10.15
15.407 TPC EIRP Limit (dBm)	30.00
RSS-247 TPC EIRP Limit (dBm)	30.00
EIRP Power (dBm)	20.44

Table 84 - 802.11ac / VHT80 MCS0x1 / MIMO TxBF / Cores 0+1+2

Channel	Middle
Frequency (MHz)	5290
Antenna Directional Gain (dBi)	5.38
15.407 Conducted Power Limit (dBm)	24.00
RSS-247 Conducted Power Limit (dBm)	24.00
Conducted Power (dBm)	11.04
15.407 TPC EIRP Limit (dBm)	30.00
RSS-247 TPC EIRP Limit (dBm)	30.00
EIRP Power (dBm)	16.42

Table 85 - 802.11ac / VHT80 MCS0x1 / Aux Core



2.1.8 Test Results: U-NII-2C

Channel	Bottom	Middle	Top	Straddle
Frequency (MHz)	5500	5600	5700	5720
Antenna Directional Gain (dBi)	7.59	7.59	7.59	7.59
15.407 Conducted Power Limit (dBm)	22.41	22.41	22.41	22.41
RSS-247 Conducted Power Limit (dBm)	23.22	23.83	23.21	24.00
Conducted Power (dBm)	9.42	15.27	8.75	15.36
15.407 TPC EIRP Limit (dBm)	30.00	30.00	30.00	30.00
RSS-247 TPC EIRP Limit (dBm)	29.22	29.83	29.21	30.00
EIRP Power (dBm)	17.01	22.86	16.34	22.96

Table 86 - 802.11a / 6 Mbps / SISO / Core 1

Channel	Bottom	Middle	Top	Straddle
Frequency (MHz)	5500	5600	5700	5720
Antenna Directional Gain (dBi)	7.52	7.52	7.52	7.52
15.407 Conducted Power Limit (dBm)	22.48	22.48	22.48	22.48
RSS-247 Conducted Power Limit (dBm)	23.23	24.00	23.23	24.00
Conducted Power (dBm)	9.32	15.16	9.62	15.20
15.407 TPC EIRP Limit (dBm)	30.00	30.00	30.00	30.00
RSS-247 TPC EIRP Limit (dBm)	29.23	30.00	29.23	30.00
EIRP Power (dBm)	16.84	22.68	17.14	22.72

Table 87 - 802.11a / 6 Mbps / Aux Core

Channel	Bottom	Middle	Top	Straddle
Frequency (MHz)	5500	5600	5700	5720
Antenna Directional Gain (dBi)	7.59	7.59	7.59	7.59
15.407 Conducted Power Limit (dBm)	22.41	22.41	22.41	22.41
RSS-247 Conducted Power Limit (dBm)	23.52	23.90	23.52	24.00
Conducted Power (dBm)	9.45	15.30	8.81	15.36
15.407 TPC EIRP Limit (dBm)	30.00	30.00	30.00	30.00
RSS-247 TPC EIRP Limit (dBm)	29.52	29.90	29.52	30.00
EIRP Power (dBm)	17.04	22.88	16.40	22.95

Table 88 - 802.11n / HT20 MCS0 / SISO / Core 1



Channel	Bottom	Middle	Top	Straddle
Frequency (MHz)	5500	5600	5700	5720
Conducted Power Core 1 (dBm)	8.31	13.40	7.31	13.28
Conducted Power Core 2 (dBm)	8.38	13.32	7.40	13.21
Antenna Directional Gain (dBi)	7.59	7.59	7.59	7.59
15.407 Conducted Power Limit (dBm)	22.41	22.41	22.41	22.41
RSS-247 Conducted Power Limit (dBm)	23.51	23.65	23.51	24.00
Total Conducted Power (dBm)	11.36	16.37	10.36	16.25
15.407 TPC EIRP Limit (dBm)	30.00	30.00	30.00	30.00
RSS-247 TPC EIRP Limit (dBm)	29.51	29.65	29.51	30.00
EIRP Power (dBm)	18.95	23.96	17.95	23.84

Table 89 - 802.11n / HT20 MCS0 / MIMO CDD / Cores 1+2

Channel	Bottom	Middle	Top	Straddle
Frequency (MHz)	5500	5600	5700	5720
Conducted Power Core 1 (dBm)	8.50	15.24	7.48	15.30
Conducted Power Core 2 (dBm)	8.39	15.22	7.41	15.34
Antenna Directional Gain (dBi)	7.56	7.56	7.56	7.56
15.407 Conducted Power Limit (dBm)	22.44	22.44	22.44	22.44
RSS-247 Conducted Power Limit (dBm)	23.51	24.00	23.50	24.00
Total Conducted Power (dBm)	11.45	18.24	10.45	18.33
15.407 TPC EIRP Limit (dBm)	30.00	30.00	30.00	30.00
RSS-247 TPC EIRP Limit (dBm)	29.51	30.00	29.50	30.00
EIRP Power (dBm)	19.01	25.79	18.01	25.89

Table 90 - 802.11n / HT20 MCS8 / MIMO SDM / Cores 1+2

Channel	Bottom	Middle	Top	Straddle
Frequency (MHz)	5500	5600	5700	5720
Conducted Power Core 0 (dBm)	8.28	9.82	6.71	9.89
Conducted Power Core 1 (dBm)	8.49	9.92	6.78	9.86
Conducted Power Core 2 (dBm)	8.31	9.90	6.82	9.96
Antenna Directional Gain (dBi)	7.59	7.59	7.59	7.59
15.407 Conducted Power Limit (dBm)	22.41	22.41	22.41	21.71
RSS-247 Conducted Power Limit (dBm)	23.51	23.52	23.51	23.51
Total Conducted Power (dBm)	13.13	14.65	11.54	14.68
15.407 TPC EIRP Limit (dBm)	30.00	30.00	30.00	29.30
RSS-247 TPC EIRP Limit (dBm)	29.51	29.52	29.51	29.51
EIRP Power (dBm)	20.72	22.24	19.13	22.27

Table 91 - 802.11n / HT20 MCS0 / MIMO CDD / Cores 0+1+2



Channel	Bottom	Middle	Top	Straddle
Frequency (MHz)	5500	5600	5700	5720
Conducted Power Core 0 (dBm)	8.36	14.78	6.92	14.74
Conducted Power Core 1 (dBm)	8.47	14.90	6.80	14.82
Conducted Power Core 2 (dBm)	8.40	14.71	6.92	14.69
Antenna Directional Gain (dBi)	7.29	7.29	7.29	7.29
15.407 Conducted Power Limit (dBm)	22.71	22.71	22.71	22.71
RSS-247 Conducted Power Limit (dBm)	23.51	24.00	23.51	24.00
Total Conducted Power (dBm)	13.18	19.57	11.65	19.52
15.407 TPC EIRP Limit (dBm)	30.00	30.00	30.00	30.00
RSS-247 TPC EIRP Limit (dBm)	29.51	30.00	29.51	30.00
EIRP Power (dBm)	20.47	26.85	18.94	26.81

Table 92 - 802.11n / HT20 MCS16 / MIMO SDM / Cores 0+1+2

Channel	Bottom	Middle	Top	Straddle
Frequency (MHz)	5500	5600	5700	5720
Antenna Directional Gain (dBi)	7.52	7.52	7.52	7.52
15.407 Conducted Power Limit (dBm)	22.48	22.48	22.48	22.48
RSS-247 Conducted Power Limit (dBm)	23.53	24.00	23.53	24.00
Conducted Power (dBm)	9.20	15.19	9.62	15.28
15.407 TPC EIRP Limit (dBm)	30.00	30.00	30.00	30.00
RSS-247 TPC EIRP Limit (dBm)	29.53	30.00	29.53	30.00
EIRP Power (dBm)	16.72	22.71	17.14	22.80

Table 93 - 802.11n / HT20 MCS0 / Aux Core

Channel	Bottom	Middle	Top	Straddle
Frequency (MHz)	5510	5590	5670	5710
Antenna Directional Gain (dBi)	7.59	7.59	7.59	7.59
15.407 Conducted Power Limit (dBm)	22.41	22.41	22.41	22.41
RSS-247 Conducted Power Limit (dBm)	24.00	24.00	24.00	24.00
Conducted Power (dBm)	8.91	14.67	10.32	14.96
15.407 TPC EIRP Limit (dBm)	30.00	30.00	30.00	30.00
RSS-247 TPC EIRP Limit (dBm)	30.00	30.00	30.00	30.00
EIRP Power (dBm)	16.50	22.26	17.91	22.55

Table 94 - 802.11n / HT40 MCS0 / SISO / Core 1



Channel	Bottom	Middle	Top	Straddle
Frequency (MHz)	5510	5590	5670	5710
Conducted Power Core 1 (dBm)	8.36	14.85	9.33	14.83
Conducted Power Core 2 (dBm)	8.47	14.99	9.32	14.90
Antenna Directional Gain (dBi)	7.59	7.59	7.59	7.59
15.407 Conducted Power Limit (dBm)	22.41	22.41	22.41	22.41
RSS-247 Conducted Power Limit (dBm)	24.00	24.00	24.00	24.00
Total Conducted Power (dBm)	11.43	17.93	12.33	17.88
15.407 TPC EIRP Limit (dBm)	30.00	30.00	30.00	30.00
RSS-247 TPC EIRP Limit (dBm)	30.00	30.00	30.00	30.00
EIRP Power (dBm)	19.02	25.52	19.92	25.47

Table 95 - 802.11n / HT40 MCS0 / MIMO CDD / Cores 1+2

Channel	Bottom	Middle	Top	Straddle
Frequency (MHz)	5510	5590	5670	5710
Conducted Power Core 1 (dBm)	8.34	14.79	10.57	14.75
Conducted Power Core 2 (dBm)	8.21	14.69	10.51	14.76
Antenna Directional Gain (dBi)	7.56	7.56	7.56	7.56
15.407 Conducted Power Limit (dBm)	22.44	22.44	22.44	22.44
RSS-247 Conducted Power Limit (dBm)	24.00	24.00	24.00	24.00
Total Conducted Power (dBm)	11.29	17.75	13.55	17.76
15.407 TPC EIRP Limit (dBm)	30.00	30.00	30.00	30.00
RSS-247 TPC EIRP Limit (dBm)	30.00	30.00	30.00	30.00
EIRP Power (dBm)	18.84	25.30	21.10	25.32

Table 96 - 802.11n / HT40 MCS8 / MIMO SDM / Cores 1+2

Channel	Bottom	Middle	Top	Straddle
Frequency (MHz)	5510	5590	5670	5710
Conducted Power Core 0 (dBm)	7.16	12.74	8.63	12.77
Conducted Power Core 1 (dBm)	7.39	12.91	8.66	12.84
Conducted Power Core 2 (dBm)	7.34	12.96	8.73	12.93
Antenna Directional Gain (dBi)	7.59	7.59	7.59	7.59
15.407 Conducted Power Limit (dBm)	22.41	22.41	22.41	22.41
RSS-247 Conducted Power Limit (dBm)	24.00	24.00	24.00	24.00
Total Conducted Power (dBm)	12.07	17.64	13.44	17.62
15.407 TPC EIRP Limit (dBm)	30.00	30.00	30.00	30.00
RSS-247 TPC EIRP Limit (dBm)	30.00	30.00	30.00	30.00
EIRP Power (dBm)	19.66	25.23	21.03	25.21

Table 97 - 802.11n / HT40 MCS0 / MIMO CDD / Cores 0+1+2



Channel	Bottom	Middle	Top	Straddle
Frequency (MHz)	5510	5590	5670	5710
Conducted Power Core 0 (dBm)	7.68	14.85	9.85	14.76
Conducted Power Core 1 (dBm)	7.70	14.75	9.82	14.74
Conducted Power Core 2 (dBm)	7.87	14.92	9.93	14.66
Antenna Directional Gain (dBi)	7.29	7.29	7.29	7.29
15.407 Conducted Power Limit (dBm)	22.71	22.71	22.71	22.71
RSS-247 Conducted Power Limit (dBm)	24.00	24.00	24.00	24.00
Total Conducted Power (dBm)	12.52	19.61	14.64	19.49
15.407 TPC EIRP Limit (dBm)	30.00	30.00	30.00	30.00
RSS-247 TPC EIRP Limit (dBm)	30.00	30.00	30.00	30.00
EIRP Power (dBm)	19.81	26.89	21.92	26.78

Table 98 - 802.11n / HT40 MCS16 / MIMO SDM / Cores 0+1+2

Channel	Bottom	Middle	Top	Straddle
Frequency (MHz)	5510	5590	5670	5710
Antenna Directional Gain (dBi)	7.52	7.52	7.52	7.52
15.407 Conducted Power Limit (dBm)	22.48	22.48	22.48	22.48
RSS-247 Conducted Power Limit (dBm)	24.00	24.00	24.00	24.00
Conducted Power (dBm)	9.20	14.75	12.78	14.97
15.407 TPC EIRP Limit (dBm)	30.00	30.00	30.00	30.00
RSS-247 TPC EIRP Limit (dBm)	30.00	30.00	30.00	30.00
EIRP Power (dBm)	16.73	22.27	20.30	22.49

Table 99 - 802.11n / HT40 MCS0 / Aux Core

Channel	Bottom	Middle	Top	Straddle
Frequency (MHz)	5500	5600	5700	5720
Conducted Power Core 1 (dBm)	7.29	13.34	6.42	13.48
Conducted Power Core 2 (dBm)	7.39	13.31	6.26	13.30
Antenna Directional Gain (dBi)	10.57	10.57	10.57	10.57
15.407 Conducted Power Limit (dBm)	19.43	19.43	19.43	19.38
RSS-247 Conducted Power Limit (dBm)	23.43	23.46	23.43	23.52
Total Conducted Power (dBm)	10.35	16.33	9.35	16.40
15.407 TPC EIRP Limit (dBm)	30.00	30.00	30.00	29.94
RSS-247 TPC EIRP Limit (dBm)	29.43	29.46	29.43	29.52
EIRP Power (dBm)	20.92	26.90	19.92	26.97

Table 100 - 802.11ac / VHT20 MCS0x1 / MIMO TxBF / Cores 1+2



Channel	Bottom	Middle	Top	Straddle
Frequency (MHz)	5500	5600	5700	5720
Conducted Power Core 0 (dBm)	6.83	9.77	5.25	9.67
Conducted Power Core 1 (dBm)	6.71	9.92	5.25	9.82
Conducted Power Core 2 (dBm)	6.98	9.87	5.40	9.77
Antenna Directional Gain (dBi)	12.05	12.05	12.05	12.05
15.407 Conducted Power Limit (dBm)	17.95	17.95	17.95	17.15
RSS-247 Conducted Power Limit (dBm)	23.43	23.44	23.43	23.43
Total Conducted Power (dBm)	11.61	14.62	10.07	14.53
15.407 TPC EIRP Limit (dBm)	30.00	30.00	30.00	29.20
RSS-247 TPC EIRP Limit (dBm)	29.43	29.44	29.43	29.43
EIRP Power (dBm)	23.66	26.67	22.12	26.57

Table 101 - 802.11ac / VHT20 MCS0x1 / MIMO TxBF / Cores 0+1+2

Channel	Bottom	Middle	Top	Straddle
Frequency (MHz)	5510	5590	5670	5710
Conducted Power Core 1 (dBm)	7.18	14.74	8.23	14.66
Conducted Power Core 2 (dBm)	7.32	14.69	8.35	14.70
Antenna Directional Gain (dBi)	10.57	10.57	10.57	10.57
15.407 Conducted Power Limit (dBm)	19.43	19.43	19.43	19.43
RSS-247 Conducted Power Limit (dBm)	24.00	24.00	24.00	24.00
Total Conducted Power (dBm)	10.26	17.72	11.30	17.69
15.407 TPC EIRP Limit (dBm)	30.00	30.00	30.00	30.00
RSS-247 TPC EIRP Limit (dBm)	30.00	30.00	30.00	30.00
EIRP Power (dBm)	20.83	28.29	21.86	28.26

Table 102 - 802.11ac / VHT40 MCS0x1 / MIMO TxBF / Cores 1+2



Channel	Bottom	Middle	Top	Straddle
Frequency (MHz)	5510	5590	5670	5710
Conducted Power Core 0 (dBm)	5.69	12.13	7.10	12.08
Conducted Power Core 1 (dBm)	5.75	11.96	7.02	12.21
Conducted Power Core 2 (dBm)	5.77	12.15	7.17	12.07
Antenna Directional Gain (dBi)	12.05	12.05	12.05	12.05
15.407 Conducted Power Limit (dBm)	17.95	17.95	17.95	17.95
RSS-247 Conducted Power Limit (dBm)	24.00	24.00	24.00	24.00
Total Conducted Power (dBm)	10.51	16.85	11.87	16.89
15.407 TPC EIRP Limit (dBm)	30.00	30.00	30.00	30.00
RSS-247 TPC EIRP Limit (dBm)	30.00	30.00	30.00	30.00
EIRP Power (dBm)	22.56	28.90	23.92	28.94

Table 103 - 802.11ac / VHT40 MCS0x1 / MIMO TxBF / Cores 0+1+2

Channel	Bottom	Top	Straddle
Frequency (MHz)	5530	5610	5690
Antenna Directional Gain (dBi)	7.59	7.59	7.59
15.407 Conducted Power Limit (dBm)	22.41	22.41	22.41
RSS-247 Conducted Power Limit (dBm)	24.00	24.00	24.00
Conducted Power (dBm)	8.88	12.41	12.17
15.407 TPC EIRP Limit (dBm)	30.00	30.00	30.00
RSS-247 TPC EIRP Limit (dBm)	30.00	30.00	30.00
EIRP Power (dBm)	16.47	20.00	19.76

Table 104 - 802.11ac / VHT80 MCS0x1 / SISO / Core 1

Channel	Bottom	Top	Straddle
Frequency (MHz)	5530	5610	5690
Conducted Power Core 1 (dBm)	8.21	11.13	11.18
Conducted Power Core 2 (dBm)	7.99	11.01	10.98
Antenna Directional Gain (dBi)	7.59	7.59	7.59
15.407 Conducted Power Limit (dBm)	22.41	22.41	22.41
RSS-247 Conducted Power Limit (dBm)	24.00	24.00	24.00
Total Conducted Power (dBm)	11.11	14.08	14.09
15.407 TPC EIRP Limit (dBm)	30.00	30.00	30.00
RSS-247 TPC EIRP Limit (dBm)	30.00	30.00	30.00
EIRP Power (dBm)	18.70	21.67	21.68

Table 105 - 802.11ac / VHT80 MCS0x1 / MIMO CDD / Cores 1+2



Channel	Bottom	Top	Straddle
Frequency (MHz)	5530	5610	5690
Conducted Power Core 1 (dBm)	7.24	11.66	13.51
Conducted Power Core 2 (dBm)	7.39	11.88	13.52
Antenna Directional Gain (dBi)	7.56	7.56	7.56
15.407 Conducted Power Limit (dBm)	22.44	22.44	22.44
RSS-247 Conducted Power Limit (dBm)	24.00	24.00	24.00
Total Conducted Power (dBm)	10.32	14.78	16.53
15.407 TPC EIRP Limit (dBm)	30.00	30.00	30.00
RSS-247 TPC EIRP Limit (dBm)	30.00	30.00	30.00
EIRP Power (dBm)	17.88	22.34	24.08

Table 106 - 802.11ac / VHT80 MCS0x2 / MIMO SDM / Cores 1+2

Channel	Bottom	Top	Straddle
Frequency (MHz)	5530	5610	5690
Conducted Power Core 1 (dBm)	7.13	10.14	12.24
Conducted Power Core 2 (dBm)	7.16	10.11	12.29
Antenna Directional Gain (dBi)	10.57	10.57	10.57
15.407 Conducted Power Limit (dBm)	19.43	19.43	19.43
RSS-247 Conducted Power Limit (dBm)	24.00	24.00	24.00
Total Conducted Power (dBm)	10.15	13.14	15.27
15.407 TPC EIRP Limit (dBm)	30.00	30.00	30.00
RSS-247 TPC EIRP Limit (dBm)	30.00	30.00	30.00
EIRP Power (dBm)	20.72	23.70	25.84

Table 107 - 802.11ac / VHT80 MCS0x1 / MIMO TxBF / Cores 1+2

Channel	Bottom	Top	Straddle
Frequency (MHz)	5530	5610	5690
Conducted Power Core 0 (dBm)	7.09	11.23	13.42
Conducted Power Core 1 (dBm)	7.21	10.93	13.19
Conducted Power Core 2 (dBm)	7.14	11.14	13.30
Antenna Directional Gain (dBi)	7.59	7.59	7.59
15.407 Conducted Power Limit (dBm)	22.41	22.41	22.41
RSS-247 Conducted Power Limit (dBm)	24.00	24.00	24.00
Total Conducted Power (dBm)	11.92	15.87	18.08
15.407 TPC EIRP Limit (dBm)	30.00	30.00	30.00
RSS-247 TPC EIRP Limit (dBm)	30.00	30.00	30.00
EIRP Power (dBm)	19.51	23.46	25.67

Table 108 - 802.11ac / VHT80 MCS0x1 / MIMO CDD / Cores 0+1+2



Channel	Bottom	Top	Straddle
Frequency (MHz)	5530	5610	5690
Conducted Power Core 0 (dBm)	7.34	11.78	13.53
Conducted Power Core 1 (dBm)	7.34	11.91	13.72
Conducted Power Core 2 (dBm)	7.25	11.80	13.59
Antenna Directional Gain (dBi)	7.29	7.29	7.29
15.407 Conducted Power Limit (dBm)	22.71	22.71	22.71
RSS-247 Conducted Power Limit (dBm)	24.00	24.00	24.00
Total Conducted Power (dBm)	12.08	16.60	18.39
15.407 TPC EIRP Limit (dBm)	30.00	30.00	30.00
RSS-247 TPC EIRP Limit (dBm)	30.00	30.00	30.00
EIRP Power (dBm)	19.37	23.89	25.67

Table 109 - 802.11ac / VHT80 MCS0x3 / MIMO SDM / Cores 0+1+2

Channel	Bottom	Top	Straddle
Frequency (MHz)	5530	5610	5690
Conducted Power Core 0 (dBm)	5.69	9.74	11.76
Conducted Power Core 1 (dBm)	5.56	9.69	11.92
Conducted Power Core 2 (dBm)	5.54	9.54	11.83
Antenna Directional Gain (dBi)	12.05	12.05	12.05
15.407 Conducted Power Limit (dBm)	17.95	17.95	17.95
RSS-247 Conducted Power Limit (dBm)	24.00	24.00	24.00
Total Conducted Power (dBm)	10.37	14.43	16.61
15.407 TPC EIRP Limit (dBm)	30.00	30.00	30.00
RSS-247 TPC EIRP Limit (dBm)	30.00	30.00	30.00
EIRP Power (dBm)	22.41	26.48	28.66

Table 110 - 802.11ac / VHT80 MCS0x1 / MIMO TxBF / Cores 0+1+2

Channel	Bottom	Top	Straddle
Frequency (MHz)	5530	5610	5690
Antenna Directional Gain (dBi)	7.52	7.52	7.52
15.407 Conducted Power Limit (dBm)	22.48	22.48	22.48
RSS-247 Conducted Power Limit (dBm)	24.00	24.00	24.00
Conducted Power (dBm)	9.43	14.94	14.78
15.407 TPC EIRP Limit (dBm)	30.00	30.00	30.00
RSS-247 TPC EIRP Limit (dBm)	30.00	30.00	30.00
EIRP Power (dBm)	16.94	22.46	22.30

Table 111 - 802.11ac / VHT80 MCS0x1 / Aux Core



2.1.9 Test Results: U-NII-3

Channel	Bottom	Middle	Top
Frequency (MHz)	5745	5785	5825
Antenna Directional Gain (dBi)	7.31	7.31	7.31
15.407 Conducted Power Limit (dBm)	28.69	28.69	28.69
RSS-247 Conducted Power Limit (dBm)	28.69	28.69	28.69
Conducted Power (dBm)	15.24	15.27	15.23
15.407 EIRP Limit (dBm)	36	36.00	36.00
RSS-247 EIRP Limit (dBm)	36	36.00	36.00
EIRP Power (dBm)	22.55	22.58	22.54

Table 112 - 802.11a / 6 Mbps / SISO / Core 1

Channel	Bottom	Middle	Top
Frequency (MHz)	5745	5785	5825
Antenna Directional Gain (dBi)	6.87	6.87	6.87
15.407 Conducted Power Limit (dBm)	29.13	29.13	29.13
RSS-247 Conducted Power Limit (dBm)	29.13	29.13	29.13
Conducted Power (dBm)	15.25	15.37	15.46
15.407 EIRP Limit (dBm)	36	36.00	36.00
RSS-247 EIRP Limit (dBm)	36	36.00	36.00
EIRP Power (dBm)	22.12	22.24	22.33

Table 113 - 802.11a / 6 Mbps / Aux Core

Channel	Bottom	Middle	Top
Frequency (MHz)	5745	5785	5825
Antenna Directional Gain (dBi)	7.31	7.31	7.31
15.407 Conducted Power Limit (dBm)	28.69	28.69	28.69
RSS-247 Conducted Power Limit (dBm)	28.69	28.69	28.69
Conducted Power (dBm)	15.43	15.19	15.36
15.407 EIRP Limit (dBm)	36	36.00	36.00
RSS-247 EIRP Limit (dBm)	36	36.00	36.00
EIRP Power (dBm)	22.74	22.50	22.67

Table 114 - 802.11n / HT20 MCS0 / SISO / Core 1



Channel	Bottom	Middle	Top
Frequency (MHz)	5745	5785	5825
Conducted Power Core 1 (dBm)	15.19	15.35	15.32
Conducted Power Core 2 (dBm)	15.3	15.16	14.57
Antenna Directional Gain (dBi)	7.31	7.31	7.31
15.407 Conducted Power Limit (dBm)	28.69	28.69	28.69
RSS-247 Conducted Power Limit (dBm)	28.69	28.69	28.69
Total Conducted Power (dBm)	18.25	18.27	17.97
15.407 EIRP Limit (dBm)	36	36.00	36.00
RSS-247 EIRP Limit (dBm)	36	36.00	36.00
EIRP Power (dBm)	25.56	25.58	25.28

Table 115 - 802.11n / HT20 MCS0 / MIMO CDD / Cores 1+2

Channel	Bottom	Middle	Top
Frequency (MHz)	5745	5785	5825
Conducted Power Core 1 (dBm)	15.2	15.21	15.26
Conducted Power Core 2 (dBm)	15.16	15.30	14.60
Antenna Directional Gain (dBi)	7.1	7.10	7.10
15.407 Conducted Power Limit (dBm)	28.9	28.90	28.90
RSS-247 Conducted Power Limit (dBm)	28.9	28.90	28.90
Total Conducted Power (dBm)	18.19	18.27	17.95
15.407 EIRP Limit (dBm)	36	36.00	36.00
RSS-247 EIRP Limit (dBm)	36	36.00	36.00
EIRP Power (dBm)	25.29	25.36	25.05

Table 116 - 802.11n / HT20 MCS8 / MIMO SDM / Cores 1+2

Channel	Bottom	Middle	Top
Frequency (MHz)	5745	5785	5825
Conducted Power Core 0 (dBm)	14.50	15.37	15.46
Conducted Power Core 1 (dBm)	15.22	15.21	15.20
Conducted Power Core 2 (dBm)	15.20	14.81	14.46
Antenna Directional Gain (dBi)	7.31	7.31	7.31
15.407 Conducted Power Limit (dBm)	28.69	28.69	28.69
RSS-247 Conducted Power Limit (dBm)	28.69	28.69	28.69
Total Conducted Power (dBm)	19.76	19.91	19.83
15.407 EIRP Limit (dBm)	36.00	36.00	36.00
RSS-247 EIRP Limit (dBm)	36.00	36.00	36.00
EIRP Power (dBm)	27.07	27.22	27.14

Table 117 - 802.11n / HT20 MCS0 / MIMO CDD / Cores 0+1+2



Channel	Bottom	Middle	Top
Frequency (MHz)	5745	5785	5825
Conducted Power Core 0 (dBm)	15.33	15.48	15.45
Conducted Power Core 1 (dBm)	15.21	15.22	15.25
Conducted Power Core 2 (dBm)	15.41	14.76	14.49
Antenna Directional Gain (dBi)	6.82	6.82	6.82
15.407 Conducted Power Limit (dBm)	29.18	29.18	29.18
RSS-247 Conducted Power Limit (dBm)	29.18	29.18	29.18
Total Conducted Power (dBm)	20.09	19.93	19.85
15.407 EIRP Limit (dBm)	36.00	36.00	36.00
RSS-247 EIRP Limit (dBm)	36.00	36.00	36.00
EIRP Power (dBm)	26.91	26.76	26.68

Table 118 - 802.11n / HT20 MCS16 / MIMO SDM / Cores 0+1+2

Channel	Bottom	Middle	Top
Frequency (MHz)	5745	5785	5825
Antenna Directional Gain (dBi)	6.87	6.87	6.87
15.407 Conducted Power Limit (dBm)	29.13	29.13	29.13
RSS-247 Conducted Power Limit (dBm)	29.13	29.13	29.13
Conducted Power (dBm)	15.32	15.17	15.41
15.407 EIRP Limit (dBm)	36	36.00	36.00
RSS-247 EIRP Limit (dBm)	36	36.00	36.00
EIRP Power (dBm)	22.19	22.04	22.28

Table 119 - 802.11n / HT20 MCS0 / Aux Core

Channel	Bottom	Top
Frequency (MHz)	5755	5795
Antenna Directional Gain (dBi)	7.31	7.31
15.407 Conducted Power Limit (dBm)	28.69	28.69
RSS-247 Conducted Power Limit (dBm)	28.69	28.69
Conducted Power (dBm)	14.76	14.83
15.407 EIRP Limit (dBm)	36	36.00
RSS-247 EIRP Limit (dBm)	36	36.00
EIRP Power (dBm)	22.07	22.14

Table 120 - 802.11n / HT40 MCS0 / SISO / Core 1



Channel	Bottom	Top
Frequency (MHz)	5755	5795
Conducted Power Core 1 (dBm)	14.03	14.69
Conducted Power Core 2 (dBm)	14.12	14.90
Antenna Directional Gain (dBi)	7.31	7.31
15.407 Conducted Power Limit (dBm)	28.69	28.69
RSS-247 Conducted Power Limit (dBm)	28.69	28.69
Total Conducted Power (dBm)	17.09	17.81
15.407 EIRP Limit (dBm)	36	36.00
RSS-247 EIRP Limit (dBm)	36	36.00
EIRP Power (dBm)	24.4	25.12

Table 121 - 802.11n / HT40 MCS0 / MIMO CDD / Cores 1+2

Channel	Bottom	Top
Frequency (MHz)	5755	5795
Conducted Power Core 1 (dBm)	14.34	14.87
Conducted Power Core 2 (dBm)	14.42	14.86
Antenna Directional Gain (dBi)	7.1	7.10
15.407 Conducted Power Limit (dBm)	28.9	28.90
RSS-247 Conducted Power Limit (dBm)	28.9	28.90
Total Conducted Power (dBm)	17.39	17.88
15.407 EIRP Limit (dBm)	36	36.00
RSS-247 EIRP Limit (dBm)	36	36.00
EIRP Power (dBm)	24.48	24.97

Table 122 - 802.11n / HT40 MCS8 / MIMO SDM / Cores 1+2

Channel	Bottom	Top
Frequency (MHz)	5755	5795
Conducted Power Core 0 (dBm)	12.91	14.76
Conducted Power Core 1 (dBm)	12.76	14.91
Conducted Power Core 2 (dBm)	12.80	14.33
Antenna Directional Gain (dBi)	7.31	7.31
15.407 Conducted Power Limit (dBm)	28.69	28.69
RSS-247 Conducted Power Limit (dBm)	28.69	28.69
Total Conducted Power (dBm)	17.59	19.44
15.407 EIRP Limit (dBm)	36.00	36.00
RSS-247 EIRP Limit (dBm)	36.00	36.00
EIRP Power (dBm)	24.90	26.75

Table 123 - 802.11n / HT40 MCS0 / MIMO CDD / Cores 0+1+2



Channel	Bottom	Top
Frequency (MHz)	5755	5795
Conducted Power Core 0 (dBm)	13.45	14.98
Conducted Power Core 1 (dBm)	13.30	14.84
Conducted Power Core 2 (dBm)	13.18	14.69
Antenna Directional Gain (dBi)	6.82	6.82
15.407 Conducted Power Limit (dBm)	29.18	29.18
RSS-247 Conducted Power Limit (dBm)	29.18	29.18
Total Conducted Power (dBm)	18.09	19.61
15.407 EIRP Limit (dBm)	36.00	36.00
RSS-247 EIRP Limit (dBm)	36.00	36.00
EIRP Power (dBm)	24.91	26.43

Table 124 - 802.11n / HT40 MCS16 / MIMO SDM / Cores 0+1+2

Channel	Bottom	Top
Frequency (MHz)	5755	5795
Antenna Directional Gain (dBi)	6.87	6.87
15.407 Conducted Power Limit (dBm)	29.13	29.13
RSS-247 Conducted Power Limit (dBm)	29.13	29.13
Conducted Power (dBm)	14.71	14.93
15.407 EIRP Limit (dBm)	36	36.00
RSS-247 EIRP Limit (dBm)	36	36.00
EIRP Power (dBm)	21.58	21.80

Table 125 - 802.11n / HT40 MCS0 / Aux Core

Channel	Bottom	Middle	Top
Frequency (MHz)	5745	5785	5825
Conducted Power Core 1 (dBm)	15.21	15.35	15.30
Conducted Power Core 2 (dBm)	15.26	15.32	15.30
Antenna Directional Gain (dBi)	10.1	10.10	10.10
15.407 Conducted Power Limit (dBm)	25.9	25.90	25.90
RSS-247 Conducted Power Limit (dBm)	25.9	25.90	25.90
Total Conducted Power (dBm)	18.24	18.34	18.31
15.407 EIRP Limit (dBm)	36	36.00	36.00
RSS-247 EIRP Limit (dBm)	36	36.00	36.00
EIRP Power (dBm)	28.35	28.45	28.41

Table 126 - 802.11ac / VHT20 MCS0x1 / MIMO TxBF / Cores 1+2



Channel	Bottom	Middle	Top
Frequency (MHz)	5745	5785	5825
Conducted Power Core 0 (dBm)	14.46	15.35	14.43
Conducted Power Core 1 (dBm)	14.18	15.22	14.74
Conducted Power Core 2 (dBm)	14.22	15.48	14.70
Antenna Directional Gain (dBi)	11.58	11.58	11.58
15.407 Conducted Power Limit (dBm)	24.42	24.42	24.42
RSS-247 Conducted Power Limit (dBm)	24.42	24.42	24.42
Total Conducted Power (dBm)	19.06	20.12	19.40
15.407 EIRP Limit (dBm)	36.00	36.00	36.00
RSS-247 EIRP Limit (dBm)	36.00	36.00	36.00
EIRP Power (dBm)	30.64	31.71	30.98

Table 127 - 802.11ac / VHT20 MCS0x1 / MIMO TxBF / Cores 0+1+2

Channel	Bottom	Top
Frequency (MHz)	5755	5795
Conducted Power Core 1 (dBm)	12.91	14.70
Conducted Power Core 2 (dBm)	12.99	14.91
Antenna Directional Gain (dBi)	10.1	10.10
15.407 Conducted Power Limit (dBm)	25.9	25.90
RSS-247 Conducted Power Limit (dBm)	25.9	25.90
Total Conducted Power (dBm)	15.96	17.82
15.407 EIRP Limit (dBm)	36	36.00
RSS-247 EIRP Limit (dBm)	36	36.00
EIRP Power (dBm)	26.06	27.92

Table 128 - 802.11ac / VHT40 MCS0x1 / MIMO TxBF / Cores 1+2



Channel	Bottom	Top
Frequency (MHz)	5755	5795
Conducted Power Core 0 (dBm)	11.46	14.44
Conducted Power Core 1 (dBm)	11.38	14.42
Conducted Power Core 2 (dBm)	11.27	14.43
Antenna Directional Gain (dBi)	11.58	11.58
15.407 Conducted Power Limit (dBm)	24.42	24.42
RSS-247 Conducted Power Limit (dBm)	24.42	24.42
Total Conducted Power (dBm)	16.14	19.20
15.407 EIRP Limit (dBm)	36.00	36.00
RSS-247 EIRP Limit (dBm)	36.00	36.00
EIRP Power (dBm)	27.72	30.79

Table 129 - 802.11ac / VHT40 MCS0x1 / MIMO TxBF / Cores 0+1+2

Channel	Middle
Frequency (MHz)	5775
Antenna Directional Gain (dBi)	7.31
15.407 Conducted Power Limit (dBm)	28.69
RSS-247 Conducted Power Limit (dBm)	28.69
Conducted Power (dBm)	12.48
15.407 EIRP Limit (dBm)	36
RSS-247 EIRP Limit (dBm)	36
EIRP Power (dBm)	19.79

Table 130 - 802.11ac / VHT80 MCS0x1 / SISO / Core 1

Channel	Middle
Frequency (MHz)	5775
Conducted Power Core 1 (dBm)	10.12
Conducted Power Core 2 (dBm)	10.01
Antenna Directional Gain (dBi)	7.31
15.407 Conducted Power Limit (dBm)	28.69
RSS-247 Conducted Power Limit (dBm)	28.69
Total Conducted Power (dBm)	13.08
15.407 EIRP Limit (dBm)	36
RSS-247 EIRP Limit (dBm)	36
EIRP Power (dBm)	20.39

Table 131 - 802.11ac / VHT80 MCS0x1 / MIMO CDD / Cores 1+2



Channel	Middle
Frequency (MHz)	5775
Conducted Power Core 1 (dBm)	10.75
Conducted Power Core 2 (dBm)	10.92
Antenna Directional Gain (dBi)	7.1
15.407 Conducted Power Limit (dBm)	28.9
RSS-247 Conducted Power Limit (dBm)	28.9
Total Conducted Power (dBm)	13.85
15.407 EIRP Limit (dBm)	36
RSS-247 EIRP Limit (dBm)	36
EIRP Power (dBm)	20.94

Table 132 - 802.11ac / VHT80 MCS0x2 / MIMO SDM / Cores 1+2

Channel	Middle
Frequency (MHz)	5775
Conducted Power Core 1 (dBm)	9.01
Conducted Power Core 2 (dBm)	9.05
Antenna Directional Gain (dBi)	10.1
15.407 Conducted Power Limit (dBm)	25.9
RSS-247 Conducted Power Limit (dBm)	25.9
Total Conducted Power (dBm)	12.04
15.407 EIRP Limit (dBm)	36
RSS-247 EIRP Limit (dBm)	36
EIRP Power (dBm)	22.15

Table 133 - 802.11ac / VHT80 MCS0x1 / MIMO TxBF / Cores 1+2

Channel	Middle
Frequency (MHz)	5775
Conducted Power Core 0 (dBm)	10.16
Conducted Power Core 1 (dBm)	10.06
Conducted Power Core 2 (dBm)	10.24
Antenna Directional Gain (dBi)	7.31
15.407 Conducted Power Limit (dBm)	28.69
RSS-247 Conducted Power Limit (dBm)	28.69
Total Conducted Power (dBm)	14.93
15.407 EIRP Limit (dBm)	36.00
RSS-247 EIRP Limit (dBm)	36.00
EIRP Power (dBm)	22.24

Table 134 - 802.11ac / VHT80 MCS0x1 / MIMO CDD / Cores 0+1+2



Channel	Middle
Frequency (MHz)	5775
Conducted Power Core 0 (dBm)	10.79
Conducted Power Core 1 (dBm)	10.69
Conducted Power Core 2 (dBm)	10.92
Antenna Directional Gain (dBi)	6.82
15.407 Conducted Power Limit (dBm)	29.18
RSS-247 Conducted Power Limit (dBm)	29.18
Total Conducted Power (dBm)	15.57
15.407 EIRP Limit (dBm)	36.00
RSS-247 EIRP Limit (dBm)	36.00
EIRP Power (dBm)	22.39

Table 135 - 802.11ac / VHT80 MCS0x3 / MIMO SDM / Cores 0+1+2

Channel	Middle
Frequency (MHz)	5775
Conducted Power Core 0 (dBm)	8.57
Conducted Power Core 1 (dBm)	8.63
Conducted Power Core 2 (dBm)	8.73
Antenna Directional Gain (dBi)	11.58
15.407 Conducted Power Limit (dBm)	24.42
RSS-247 Conducted Power Limit (dBm)	24.42
Total Conducted Power (dBm)	13.42
15.407 EIRP Limit (dBm)	36.00
RSS-247 EIRP Limit (dBm)	36.00
EIRP Power (dBm)	25.00

Table 136 - 802.11ac / VHT80 MCS0x1 / MIMO TxBF / Cores 0+1+2

Channel	Middle
Frequency (MHz)	5775
Antenna Directional Gain (dBi)	6.87
15.407 Conducted Power Limit (dBm)	29.13
RSS-247 Conducted Power Limit (dBm)	29.13
Conducted Power (dBm)	13.44
15.407 EIRP Limit (dBm)	36
RSS-247 EIRP Limit (dBm)	36
EIRP Power (dBm)	20.31

Table 137 - 802.11ac / VHT80 MCS0x1 / Aux Core



2.1.10 Limits

FCC 47 CFR Part 15E, Limit Clause 15.407(a)

Condition of Operation	Frequency Range (MHz)			
	5150-5250	5250-5350	5470-5725	5725-5850
Max Conducted TX Power	30 dBm (1W) for master device 24 dBm (250 mW) for client device	24 dBm (250 mW) or 11 dBm + 10 Log B, whichever is lower (B = 26 dB emission BW)		30 dBm (1 W)
Max EIRP	4W (36 dBm) with 6 dBi antenna 200 W (53 dBm) for fixed P-t-P application with 23 dBi antenna Additional rule for outdoor operation: Max_EIRP < 125 mW (21 dBm) at any elevation angle > 30° from horizon.	1 W (30 dBm) with 6 dBi antenna		4 W (36 dBm) with 6 dBi antenna. No EIRP limit for fixed P-t-P application (i.e. no antenna gain limit)

Table 138

ISED RSS-247, Limit Clause 6.2.1.1, 6.2.2.1, 6.2.3.1 and 6.2.4.1

Device	Frequency Range (MHz)			
	5150-5250	5250-5350	5470-5725	5725-5850
OEM installed in vehicles	30 mW or $1.76 + 10 \log_{10} B$ dBm (EIRP); whichever is less	30 mW or $1.76 + 10 \log_{10} B$ dBm (EIRP); whichever is less	-	-
Other	200 mW or $10 + 10 \log_{10} B$ dBm (EIRP); whichever is less	250 mW or $11 + 10 \log_{10} B$ dBm (EIRP); whichever is less 1.0 W or $17 + 10 \log_{10} B$ dBm EIRP; whichever is less	250 mW or $11 + 10 \log_{10} B$ dBm (EIRP); whichever is less 1.0 W or $17 + 10 \log_{10} B$ dBm EIRP; whichever is less	1W 4W EIRP

Table 139



2.1.11 Test Location and Test Equipment Used

This test was carried out in RF Laboratory 1.

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Due
Hygrometer	Rotronic	I-1000	3220	12	25-Sep-2020
Frequency Standard	Spectracom	SecureSync 1200-0408-0601	4393	6	16-Apr-2020
EXA	Keysight Technologies	N9010B	4969	24	21-Dec-2019
Network Analyser	Keysight Technologies	E5063A	5018	12	20-May-2020
Cable (40 GHz)	Rosenberger	LU1-001-2000	5024	-	O/P Mon
Electronic Calibration Module	Keysight Technologies	85093C	5188	12	21-May-2020
AC Programmable Power Supply	iTech	IT7324	5227	-	O/P Mon
10 dB Attenuator	Telegartner	J01156A0031	Not Serialised	-	O/P Mon
10 dB Attenuator	Telegartner	J01156A0031	Not Serialised	-	O/P Mon
10 dB Attenuator	Telegartner	J01156A0031	Not Serialised	-	O/P Mon
10 dB Attenuator	Telegartner	J01156A0031	Not Serialised	-	O/P Mon

Table 140

O/P Mon – Output Monitored using calibrated equipment



2.2 Maximum Conducted Power Spectral Density

2.2.1 Specification Reference

FCC 47 CFR Part 15E, Clause 15.407(a)
ISED RSS-247, Clause 6.2

2.2.2 Equipment Under Test and Modification State

A2304, S/N: C02Z1003N0GT - Modification State 0

2.2.3 Date of Test

23-October-2019 to 14-November-2019

2.2.4 Test Method

The test was performed in accordance with ANSI C63.10, clause 12.5.

Where the EUT duty cycle was < 98 % and repeatable within 2 %, the spectrum analyser was set to trace (power) averaging and a duty cycle correction was added as calculated in the result tables below (Method SA-2). Where the duty cycle was is equal to 98 % the spectrum analyser was set to trace (power) averaging and no duty cycle correction made (Method SA-1). In all other cases the spectrum analyser trace was set to max hold (Method SA-3).

Results for the U-NII-3 band were measured in a narrower bandwidth and integrated over 500 kHz using the spectrum analyzers channel power integration function.

The output power was verified as being the same from each transmit core (within negligible tolerances), but the antenna gains were not identical. Therefore, the modes reported for SISO or 2TX MIMO operation are those giving the highest EIRP and/or lowest conducted limit based on the combination of antennas giving highest total directional gain.

MIMO output port summing was performed in accordance with KDB 662911 D01:

For the CDD results the Directional Gain was calculated in accordance with the equation given in clause F)2)f)(ii) summed for a single spacial stream.

For SDM modes Directional Gain was calculated in accordance with clause F)2)d)(ii).

For transmit beamforming (TxBF) mode it was calculated in accordance with clause F)2)d)(i).

2.2.5 Environmental Conditions

Ambient Temperature	22.0 - 26.0 °C
Relative Humidity	25.2 - 49.6 %



2.2.6 Test Results: U-NII-1

Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
Raw Conducted PSD (dBm/MHz)	-1.63	3.23	3.56
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	6.27	6.27	6.27
15.407 Conducted PSD Limit (dBm/MHz)	10.73	10.73	10.73
Conducted PSD Result (dBm/MHz)	-1.63	3.23	3.56

Table 141 - 802.11a / 6 Mbps / SISO / Core 2 / Country Code US

Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
Raw Conducted PSD (dBm/MHz)	-0.90	1.16	1.57
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	6.27	6.27	6.27
RSS-247 EIRP Spectral Density Limit (dBm/MHz)	10.00	10.00	10.00
EIRP Spectral Density Result (dBm/MHz)	5.37	7.43	7.84

Table 142 - 802.11a / 6 Mbps / SISO / Core 2 / Country Code CA

Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
Raw Conducted PSD (dBm/MHz)	-1.21	3.10	3.45
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	6.27	6.27	6.27
15.407 Conducted PSD Limit (dBm/MHz)	10.73	10.73	10.73
Conducted PSD Result (dBm/MHz)	-1.21	3.10	3.45

Table 143 - 802.11a / 6 Mbps / Aux Core / Country Code US

Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
Raw Conducted PSD (dBm/MHz)	-1.35	3.30	3.46
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	6.27	6.27	6.27
RSS-247 EIRP Spectral Density Limit (dBm/MHz)	10.00	10.00	10.00
EIRP Spectral Density Result (dBm/MHz)	4.92	9.57	9.73

Table 144 - 802.11a / 6 Mbps / Aux Core / Country Code CA



Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
Raw Conducted PSD (dBm/MHz)	-1.50	2.94	3.17
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	6.27	6.27	6.27
15.407 Conducted PSD Limit (dBm/MHz)	10.73	10.73	10.73
Conducted PSD Result (dBm/MHz)	-1.50	2.94	3.17

Table 145 - 802.11n / HT20 MCS0 / SISO / Core 2 / Country Code US

Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
Raw Conducted PSD (dBm/MHz)	-1.60	0.68	1.36
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	6.27	6.27	6.27
RSS-247 EIRP Spectral Density Limit (dBm/MHz)	10.00	10.00	10.00
EIRP Spectral Density Result (dBm/MHz)	4.67	6.95	7.62

Table 146 - 802.11n / HT20 MCS0 / SISO / Core 2 / Country Code CA

Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
Conducted PSD Core 1 (dBm/MHz)	-2.74	1.93	1.98
Conducted PSD Core 2 (dBm/MHz)	-2.64	1.83	2.06
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	9.20	9.20	9.20
15.407 Conducted PSD Limit (dBm/MHz)	7.80	7.80	7.80
Conducted PSD Result (dBm/MHz)	0.32	4.89	5.03

Table 147 - 802.11n / HT20 MCS0 / MIMO CDD / Cores 1+2 / Country Code US

Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
Conducted PSD Core 1 (dBm/MHz)	-5.22	-5.37	-4.87
Conducted PSD Core 2 (dBm/MHz)	-5.30	-5.26	-4.98
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	9.20	9.20	9.20
RSS-247 EIRP Spectral Density Limit (dBm/MHz)	10.00	10.00	10.00
EIRP Spectral Density Result (dBm/MHz)	6.95	6.89	7.28

Table 148 - 802.11n / HT20 MCS0 / MIMO CDD / Cores 1+2 / Country Code CA



Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
Conducted PSD Core 1 (dBm/MHz)	-2.83	2.98	3.24
Conducted PSD Core 2 (dBm/MHz)	-2.85	3.06	3.13
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	6.19	6.19	6.19
15.407 Conducted PSD Limit (dBm/MHz)	10.81	10.81	10.81
Conducted PSD Result (dBm/MHz)	0.17	6.03	6.20

Table 149 - 802.11n / HT20 MCS8 / MIMO SDM / Cores 1+2 / Country Code US

Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
Conducted PSD Core 1 (dBm/MHz)	-2.98	-2.11	-2.21
Conducted PSD Core 2 (dBm/MHz)	-2.87	-2.59	-1.92
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	6.19	6.19	6.19
RSS-247 EIRP Spectral Density Limit (dBm/MHz)	10.00	10.00	10.00
EIRP Spectral Density Result (dBm/MHz)	6.28	6.85	7.13

Table 150 - 802.11n / HT20 MCS8 / MIMO SDM / Cores 1+2 / Country Code CA

Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
Conducted PSD Core 0 (dBm/MHz)	-3.47	-1.31	-0.93
Conducted PSD Core 1 (dBm/MHz)	-3.46	-1.21	-0.59
Conducted PSD Core 2 (dBm/MHz)	-3.51	-1.11	-1.01
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	10.45	10.45	10.45
15.407 Conducted PSD Limit (dBm/MHz)	6.55	6.55	6.55
Conducted PSD Result (dBm/MHz)	1.29	3.56	3.93

Table 151 - 802.11n / HT20 MCS0 / MIMO CDD / Cores 0+1+2 / Country Code US



Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
Conducted PSD Core 0 (dBm/MHz)	-8.01	-8.31	-7.86
Conducted PSD Core 1 (dBm/MHz)	-8.11	-8.18	-8.04
Conducted PSD Core 2 (dBm/MHz)	-8.01	-8.08	-8.02
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	10.45	10.45	10.45
RSS-247 EIRP Spectral Density Limit (dBm/MHz)	10.00	10.00	10.00
EIRP Spectral Density Result (dBm/MHz)	7.18	7.03	7.25

Table 152 - 802.11n / HT20 MCS0 / MIMO CDD / Cores 0+1+2 / Country Code CA

Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
Conducted PSD Core 0 (dBm/MHz)	-2.72	2.91	3.14
Conducted PSD Core 1 (dBm/MHz)	-2.58	2.54	2.98
Conducted PSD Core 2 (dBm/MHz)	-2.77	2.87	3.01
Duty Cycle Correction (dB)	0.12	0.12	0.12
Antenna Directional Gain (dBi)	5.71	5.71	5.71
15.407 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00
Conducted PSD Result (dBm/MHz)	2.20	7.67	7.93

Table 153 - 802.11n / HT20 MCS16 / MIMO SDM / Cores 0+1+2 / Country Code US

Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
Conducted PSD Core 0 (dBm/MHz)	-3.74	-3.92	-3.43
Conducted PSD Core 1 (dBm/MHz)	-3.46	-3.78	-3.43
Conducted PSD Core 2 (dBm/MHz)	-3.60	-3.78	-3.56
Duty Cycle Correction (dB)	0.12	0.12	0.12
Antenna Directional Gain (dBi)	5.71	5.71	5.71
RSS-247 EIRP Spectral Density Limit (dBm/MHz)	10.00	10.00	10.00
EIRP Spectral Density Result (dBm/MHz)	7.00	6.78	7.13

Table 154 - 802.11n / HT20 MCS16 / MIMO SDM / Cores 0+1+2 / Country Code CA



Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
Raw Conducted PSD (dBm/MHz)	-1.59	2.65	3.18
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	6.27	6.27	6.27
15.407 Conducted PSD Limit (dBm/MHz)	10.73	10.73	10.73
Conducted PSD Result (dBm/MHz)	-1.59	2.65	3.18

Table 155 - 802.11n / HT20 MCS0 / Aux Core / Country Code US

Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
Raw Conducted PSD (dBm/MHz)	-1.56	2.80	3.22
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	6.27	6.27	6.27
RSS-247 EIRP Spectral Density Limit (dBm/MHz)	10.00	10.00	10.00
EIRP Spectral Density Result (dBm/MHz)	4.71	9.07	9.49

Table 156 - 802.11n / HT20 MCS0 / Aux Core / Country Code CA

Channel	Bottom	Top
Frequency (MHz)	5190	5230
Raw Conducted PSD (dBm/MHz)	-5.43	-0.49
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	6.27	6.27
15.407 Conducted PSD Limit (dBm/MHz)	10.73	10.73
Conducted PSD Result (dBm/MHz)	-5.43	-0.49

Table 157 - 802.11n / HT40 MCS0 / SISO / Core 2 / Country Code US

Channel	Bottom	Top
Frequency (MHz)	5190	5230
Raw Conducted PSD (dBm/MHz)	-5.28	-0.30
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	6.27	6.27
RSS-247 EIRP Spectral Density Limit (dBm/MHz)	10.00	10.00
EIRP Spectral Density Result (dBm/MHz)	0.99	5.97

Table 158 - 802.11n / HT40 MCS0 / SISO / Core 2 / Country Code CA



Channel	Bottom	Top
Frequency (MHz)	5190	5230
Conducted PSD Core 1 (dBm/MHz)	-7.55	-0.61
Conducted PSD Core 2 (dBm/MHz)	-7.30	-0.47
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	9.20	9.20
15.407 Conducted PSD Limit (dBm/MHz)	7.80	7.80
Conducted PSD Result (dBm/MHz)	-4.42	2.47

Table 159 - 802.11n / HT40 MCS0 / MIMO CDD / Cores 1+2 / Country Code US

Channel	Bottom	Top
Frequency (MHz)	5190	5230
Conducted PSD Core 1 (dBm/MHz)	-7.70	-4.77
Conducted PSD Core 2 (dBm/MHz)	-7.30	-4.56
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	9.20	9.20
RSS-247 EIRP Spectral Density Limit (dBm/MHz)	10.00	10.00
EIRP Spectral Density Result (dBm/MHz)	4.71	7.54

Table 160 - 802.11n / HT40 MCS0 / MIMO CDD / Cores 1+2 / Country Code CA

Channel	Bottom	Top
Frequency (MHz)	5190	5230
Conducted PSD Core 1 (dBm/MHz)	-6.11	-0.45
Conducted PSD Core 2 (dBm/MHz)	-5.68	-0.44
Duty Cycle Correction (dB)	0.16	0.16
Antenna Directional Gain (dBi)	6.19	6.19
15.407 Conducted PSD Limit (dBm/MHz)	10.81	10.81
Conducted PSD Result (dBm/MHz)	-2.72	2.73

Table 161 - 802.11n / HT40 MCS8 / MIMO SDM / Cores 1+2 / Country Code US

Channel	Bottom	Top
Frequency (MHz)	5190	5230
Conducted PSD Core 1 (dBm/MHz)	-5.70	-2.84
Conducted PSD Core 2 (dBm/MHz)	-5.82	-2.73
Duty Cycle Correction (dB)	0.16	0.16
Antenna Directional Gain (dBi)	6.19	6.19
RSS-247 EIRP Spectral Density Limit (dBm/MHz)	10.00	10.00
EIRP Spectral Density Result (dBm/MHz)	3.59	6.58

Table 162 - 802.11n / HT40 MCS8 / MIMO SDM / Cores 1+2 / Country Code CA



Channel	Bottom	Top
Frequency (MHz)	5190	5230
Conducted PSD Core 0 (dBm/MHz)	-7.42	-0.77
Conducted PSD Core 1 (dBm/MHz)	-7.52	-1.04
Conducted PSD Core 2 (dBm/MHz)	-7.32	-1.00
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	10.45	10.45
15.407 Conducted PSD Limit (dBm/MHz)	6.55	6.55
Conducted PSD Result (dBm/MHz)	-2.65	3.83

Table 163 - 802.11n / HT40 MCS0 / MIMO CDD / Cores 0+1+2 / Country Code US

Channel	Bottom	Top
Frequency (MHz)	5190	5230
Conducted PSD Core 0 (dBm/MHz)	-7.77	-7.74
Conducted PSD Core 1 (dBm/MHz)	-8.13	-7.96
Conducted PSD Core 2 (dBm/MHz)	-8.07	-7.92
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	10.45	10.45
RSS-247 EIRP Spectral Density Limit (dBm/MHz)	10.00	10.00
EIRP Spectral Density Result (dBm/MHz)	7.24	7.35

Table 164 - 802.11n / HT40 MCS0 / MIMO CDD / Cores 0+1+2 / Country Code CA

Channel	Bottom	Top
Frequency (MHz)	5190	5230
Conducted PSD Core 0 (dBm/MHz)	-6.22	-0.49
Conducted PSD Core 1 (dBm/MHz)	-6.25	-0.76
Conducted PSD Core 2 (dBm/MHz)	-6.50	-0.50
Duty Cycle Correction (dB)	0.22	0.22
Antenna Directional Gain (dBi)	5.71	5.71
15.407 Conducted PSD Limit (dBm/MHz)	11.00	11.00
Conducted PSD Result (dBm/MHz)	-1.33	4.41

Table 165 - 802.11n / HT40 MCS16 / MIMO SDM / Cores 0+1+2 / Country Code US



Channel	Bottom	Top
Frequency (MHz)	5190	5230
Conducted PSD Core 0 (dBm/MHz)	-6.33	-4.50
Conducted PSD Core 1 (dBm/MHz)	-6.38	-4.14
Conducted PSD Core 2 (dBm/MHz)	-6.28	-4.12
Duty Cycle Correction (dB)	0.23	0.22
Antenna Directional Gain (dBi)	5.71	5.71
RSS-247 EIRP Spectral Density Limit (dBm/MHz)	10.00	10.00
EIRP Spectral Density Result (dBm/MHz)	4.38	6.46

Table 166 - 802.11n / HT40 MCS16 / MIMO SDM / Cores 0+1+2 / Country Code CA

Channel	Bottom	Top
Frequency (MHz)	5190	5230
Raw Conducted PSD (dBm/MHz)	-4.57	-0.44
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	6.27	6.27
15.407 Conducted PSD Limit (dBm/MHz)	10.73	10.73
Conducted PSD Result (dBm/MHz)	-4.57	-0.44

Table 167 - 802.11n / HT40 MCS0 / Aux Core / Country Code US

Channel	Bottom	Top
Frequency (MHz)	5190	5230
Raw Conducted PSD (dBm/MHz)	-4.25	-0.38
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	6.27	6.27
RSS-247 EIRP Spectral Density Limit (dBm/MHz)	10.00	10.00
EIRP Spectral Density Result (dBm/MHz)	2.02	5.89

Table 168 - 802.11n / HT40 MCS0 / Aux Core / Country Code CA

Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
Conducted PSD Core 1 (dBm/MHz)	-2.50	3.01	3.65
Conducted PSD Core 2 (dBm/MHz)	-2.65	2.82	3.17
Duty Cycle Correction (dB)	0.35	0.29	0.27
Antenna Directional Gain (dBi)	9.20	9.20	9.20
15.407 Conducted PSD Limit (dBm/MHz)	7.80	7.80	7.80
Conducted PSD Result (dBm/MHz)	0.79	6.21	6.70

Table 169 - 802.11ac / VHT20 MCS0x1 / MIMO TxBF / Cores 1+2 / Country Code US



Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
Conducted PSD Core 1 (dBm/MHz)	-3.66	-3.71	-3.78
Conducted PSD Core 2 (dBm/MHz)	-3.79	-4.09	-3.88
Duty Cycle Correction (dB)	0.35	0.26	0.26
Antenna Directional Gain (dBi)	9.20	9.20	9.20
RSS-247 EIRP Spectral Density Limit (dBm/MHz)	10.00	10.00	10.00
EIRP Spectral Density Result (dBm/MHz)	8.83	8.57	8.64

Table 170 - 802.11ac / VHT20 MCS0x1 / MIMO TxBF / Cores 1+2 / Country Code CA

Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
Conducted PSD Core 0 (dBm/MHz)	-4.09	-0.24	0.23
Conducted PSD Core 1 (dBm/MHz)	-4.03	-0.01	0.32
Conducted PSD Core 2 (dBm/MHz)	-4.31	-0.16	0.13
Duty Cycle Correction (dB)	0.34	0.29	0.35
Antenna Directional Gain (dBi)	10.45	10.45	10.45
15.407 Conducted PSD Limit (dBm/MHz)	6.55	6.55	6.55
Conducted PSD Result (dBm/MHz)	0.97	4.93	5.35

Table 171 - 802.11ac / VHT20 MCS0x1 / MIMO TxBF / Cores 0+1+2 / Country Code US

Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
Conducted PSD Core 0 (dBm/MHz)	-7.42	-7.55	-6.68
Conducted PSD Core 1 (dBm/MHz)	-6.97	-7.19	-7.08
Conducted PSD Core 2 (dBm/MHz)	-7.02	-6.97	-6.99
Duty Cycle Correction (dB)	0.49	0.29	0.42
Antenna Directional Gain (dBi)	10.45	10.45	10.45
RSS-247 EIRP Spectral Density Limit (dBm/MHz)	10.00	10.00	10.00
EIRP Spectral Density Result (dBm/MHz)	8.58	8.28	8.73

Table 172 - 802.11ac / VHT20 MCS0x1 / MIMO TxBF / Cores 0+1+2 / Country Code CA



Channel	Bottom	Top
Frequency (MHz)	5190	5230
Conducted PSD Core 1 (dBm/MHz)	-8.49	-1.43
Conducted PSD Core 2 (dBm/MHz)	-8.69	-1.57
Duty Cycle Correction (dB)	0.29	0.34
Antenna Directional Gain (dBi)	9.20	9.20
15.407 Conducted PSD Limit (dBm/MHz)	7.80	7.80
Conducted PSD Result (dBm/MHz)	-5.29	1.85

Table 173 - 802.11ac / VHT40 MCS0x1 / MIMO TxBF / Cores 1+2 / Country Code US

Channel	Bottom	Top
Frequency (MHz)	5190	5230
Conducted PSD Core 1 (dBm/MHz)	-8.29	-5.73
Conducted PSD Core 2 (dBm/MHz)	-8.78	-5.82
Duty Cycle Correction (dB)	0.25	0.25
Antenna Directional Gain (dBi)	9.20	9.20
RSS-247 EIRP Spectral Density Limit (dBm/MHz)	10.00	10.00
EIRP Spectral Density Result (dBm/MHz)	3.93	6.68

Table 174 - 802.11ac / VHT40 MCS0x1 / MIMO TxBF / Cores 1+2 / Country Code CA

Channel	Bottom	Top
Frequency (MHz)	5190	5230
Conducted PSD Core 0 (dBm/MHz)	-9.43	-2.59
Conducted PSD Core 1 (dBm/MHz)	-9.11	-2.28
Conducted PSD Core 2 (dBm/MHz)	-9.02	-2.26
Duty Cycle Correction (dB)	0.33	0.38
Antenna Directional Gain (dBi)	10.45	10.45
15.407 Conducted PSD Limit (dBm/MHz)	6.55	6.55
Conducted PSD Result (dBm/MHz)	-4.08	2.78

Table 175 - 802.11ac / VHT40 MCS0x1 / MIMO TxBF / Cores 0+1+2 / Country Code US



Channel	Bottom	Top
Frequency (MHz)	5190	5230
Conducted PSD Core 0 (dBm/MHz)	-9.41	-9.07
Conducted PSD Core 1 (dBm/MHz)	-9.00	-9.59
Conducted PSD Core 2 (dBm/MHz)	-9.45	-8.64
Duty Cycle Correction (dB)	0.40	0.37
Antenna Directional Gain (dBi)	10.45	10.45
RSS-247 EIRP Spectral Density Limit (dBm/MHz)	10.00	10.00
EIRP Spectral Density Result (dBm/MHz)	6.34	6.51

Table 176 - 802.11ac / VHT40 MCS0x1 / MIMO TxBF / Cores 0+1+2 / Country Code CA

Channel	Middle
Frequency (MHz)	5210
Raw Conducted PSD (dBm/MHz)	-9.11
Duty Cycle Correction (dB)	0.17
Antenna Directional Gain (dBi)	6.27
15.407 Conducted PSD Limit (dBm/MHz)	10.73
Conducted PSD Result (dBm/MHz)	-8.94

Table 177 - 802.11ac / VHT80 MCS0x1 / SISO / Core 2 / Country Code US

Channel	Middle
Frequency (MHz)	5210
Raw Conducted PSD (dBm/MHz)	-8.97
Duty Cycle Correction (dB)	0.17
Antenna Directional Gain (dBi)	6.27
RSS-247 EIRP Spectral Density Limit (dBm/MHz)	10.00
EIRP Spectral Density Result (dBm/MHz)	-2.53

Table 178 - 802.11ac / VHT80 MCS0x1 / SISO / Core 2 / Country Code CA

Channel	Middle
Frequency (MHz)	5210
Conducted PSD Core 1 (dBm/MHz)	-10.40
Conducted PSD Core 2 (dBm/MHz)	-10.82
Duty Cycle Correction (dB)	0.17
Antenna Directional Gain (dBi)	9.20
15.407 Conducted PSD Limit (dBm/MHz)	7.80
Conducted PSD Result (dBm/MHz)	-7.42

Table 179 - 802.11ac / VHT80 MCS0x1 / MIMO CDD / Cores 1+2 / Country Code US



Channel	Middle
Frequency (MHz)	5210
Conducted PSD Core 1 (dBm/MHz)	-10.32
Conducted PSD Core 2 (dBm/MHz)	-10.81
Duty Cycle Correction (dB)	0.17
Antenna Directional Gain (dBi)	9.20
RSS-247 EIRP Spectral Density Limit (dBm/MHz)	10.00
EIRP Spectral Density Result (dBm/MHz)	1.82

Table 180 - 802.11ac / VHT80 MCS0x1 / MIMO CDD / Cores 1+2 / Country Code CA

Channel	Middle
Frequency (MHz)	5210
Conducted PSD Core 1 (dBm/MHz)	-9.86
Conducted PSD Core 2 (dBm/MHz)	-10.02
Duty Cycle Correction (dB)	0.28
Antenna Directional Gain (dBi)	6.19
15.407 Conducted PSD Limit (dBm/MHz)	10.81
Conducted PSD Result (dBm/MHz)	-6.64

Table 181 - 802.11ac / VHT80 MCS0x2 / MIMO SDM / Cores 1+2 / Country Code US

Channel	Middle
Frequency (MHz)	5210
Conducted PSD Core 1 (dBm/MHz)	-9.88
Conducted PSD Core 2 (dBm/MHz)	-9.86
Duty Cycle Correction (dB)	0.30
Antenna Directional Gain (dBi)	6.19
RSS-247 EIRP Spectral Density Limit (dBm/MHz)	10.00
EIRP Spectral Density Result (dBm/MHz)	-0.37

Table 182 - 802.11ac / VHT80 MCS0x2 / MIMO SDM / Cores 1+2 / Country Code CA

Channel	Middle
Frequency (MHz)	5210
Conducted PSD Core 1 (dBm/MHz)	-12.25
Conducted PSD Core 2 (dBm/MHz)	-11.70
Duty Cycle Correction (dB)	0.38
Antenna Directional Gain (dBi)	9.20
15.407 Conducted PSD Limit (dBm/MHz)	7.80
Conducted PSD Result (dBm/MHz)	-8.58

Table 183 - 802.11ac / VHT80 MCS0x1 / MIMO TxBF / Cores 1+2 / Country Code US



Channel	Middle
Frequency (MHz)	5210
Conducted PSD Core 1 (dBm/MHz)	-12.59
Conducted PSD Core 2 (dBm/MHz)	-12.24
Duty Cycle Correction (dB)	0.31
Antenna Directional Gain (dBi)	9.20
RSS-247 EIRP Spectral Density Limit (dBm/MHz)	10.00
EIRP Spectral Density Result (dBm/MHz)	0.11

Table 184 - 802.11ac / VHT80 MCS0x1 / MIMO TxBF / Cores 1+2 / Country Code CA

Channel	Middle
Frequency (MHz)	5210
Conducted PSD Core 0 (dBm/MHz)	-11.78
Conducted PSD Core 1 (dBm/MHz)	-11.86
Conducted PSD Core 2 (dBm/MHz)	-11.84
Duty Cycle Correction (dB)	0.17
Antenna Directional Gain (dBi)	10.45
15.407 Conducted PSD Limit (dBm/MHz)	6.55
Conducted PSD Result (dBm/MHz)	-6.88

Table 185 - 802.11ac / VHT80 MCS0x1 / MIMO CDD / Cores 0+1+2 / Country Code US

Channel	Middle
Frequency (MHz)	5210
Conducted PSD Core 0 (dBm/MHz)	-11.82
Conducted PSD Core 1 (dBm/MHz)	-11.76
Conducted PSD Core 2 (dBm/MHz)	-11.46
Duty Cycle Correction (dB)	0.17
Antenna Directional Gain (dBi)	10.45
RSS-247 EIRP Spectral Density Limit (dBm/MHz)	10.00
EIRP Spectral Density Result (dBm/MHz)	3.73

Table 186 - 802.11ac / VHT80 MCS0x1 / MIMO CDD / Cores 0+1+2 / Country Code CA



Channel	Middle
Frequency (MHz)	5210
Conducted PSD Core 0 (dBm/MHz)	-10.60
Conducted PSD Core 1 (dBm/MHz)	-10.65
Conducted PSD Core 2 (dBm/MHz)	-10.78
Duty Cycle Correction (dB)	0.40
Antenna Directional Gain (dBi)	5.71
15.407 Conducted PSD Limit (dBm/MHz)	11.00
Conducted PSD Result (dBm/MHz)	-5.50

Table 187 - 802.11ac / VHT80 MCS0x3 / MIMO SDM / Cores 0+1+2 / Country Code US

Channel	Middle
Frequency (MHz)	5210
Conducted PSD Core 0 (dBm/MHz)	-10.72
Conducted PSD Core 1 (dBm/MHz)	-10.68
Conducted PSD Core 2 (dBm/MHz)	-10.58
Duty Cycle Correction (dB)	0.40
Antenna Directional Gain (dBi)	5.71
RSS-247 EIRP Spectral Density Limit (dBm/MHz)	10.00
EIRP Spectral Density Result (dBm/MHz)	0.23

Table 188 - 802.11ac / VHT80 MCS0x3 / MIMO SDM / Cores 0+1+2 / Country Code CA

Channel	Middle
Frequency (MHz)	5210
Conducted PSD Core 0 (dBm/MHz)	-13.64
Conducted PSD Core 1 (dBm/MHz)	-13.66
Conducted PSD Core 2 (dBm/MHz)	-13.91
Duty Cycle Correction (dB)	0.44
Antenna Directional Gain (dBi)	10.45
15.407 Conducted PSD Limit (dBm/MHz)	6.55
Conducted PSD Result (dBm/MHz)	-8.52

Table 189 - 802.11ac / VHT80 MCS0x1 / MIMO TxBF / Cores 0+1+2 / Country Code US



Channel	Middle
Frequency (MHz)	5210
Conducted PSD Core 0 (dBm/MHz)	-13.79
Conducted PSD Core 1 (dBm/MHz)	-13.83
Conducted PSD Core 2 (dBm/MHz)	-13.81
Duty Cycle Correction (dB)	0.44
Antenna Directional Gain (dBi)	10.45
RSS-247 EIRP Spectral Density Limit (dBm/MHz)	10.00
EIRP Spectral Density Result (dBm/MHz)	1.85

Table 190 - 802.11ac / VHT80 MCS0x1 / MIMO TxBF / Cores 0+1+2 / Country Code CA

Channel	Middle
Frequency (MHz)	5210
Raw Conducted PSD (dBm/MHz)	-7.89
Duty Cycle Correction (dB)	0.15
Antenna Directional Gain (dBi)	6.27
15.407 Conducted PSD Limit (dBm/MHz)	10.73
Conducted PSD Result (dBm/MHz)	-7.75

Table 191 - 802.11ac / VHT80 MCS0x1 / Aux Core / Country Code US

Channel	Middle
Frequency (MHz)	5210
Raw Conducted PSD (dBm/MHz)	-7.85
Duty Cycle Correction (dB)	0.15
Antenna Directional Gain (dBi)	6.27
RSS-247 EIRP Spectral Density Limit (dBm/MHz)	10.00
EIRP Spectral Density Result (dBm/MHz)	-1.43

Table 192 - 802.11ac / VHT80 MCS0x1 / Aux Core / Country Code CA



2.2.7 Test Results: U-NII-2A

Channel	Bottom	Middle	Top
Frequency (MHz)	5260	5280	5320
Raw Conducted PSD (dBm/MHz)	3.59	3.40	0.06
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	5.98	5.98	5.98
15.407 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00
Conducted PSD Result (dBm/MHz)	3.59	3.40	0.06

Table 193 - 802.11a / 6 Mbps / SISO / Core 1

Channel	Bottom	Middle	Top
Frequency (MHz)	5260	5280	5320
Raw Conducted PSD (dBm/MHz)	3.28	3.49	0.52
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	5.38	5.38	5.38
15.407 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00
Conducted PSD Result (dBm/MHz)	3.28	3.49	0.52

Table 194 - 802.11a / 6 Mbps / Aux Core

Channel	Bottom	Middle	Top
Frequency (MHz)	5260	5280	5320
Raw Conducted PSD (dBm/MHz)	3.14	2.98	-0.21
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	5.98	5.98	5.98
15.407 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00
Conducted PSD Result (dBm/MHz)	3.14	2.98	-0.21

Table 195 - 802.11n / HT20 MCS0 / SISO / Core 1



Channel	Bottom	Middle	Top
Frequency (MHz)	5260	5280	5320
Conducted PSD Core 1 (dBm/MHz)	2.47	2.57	-2.35
Conducted PSD Core 2 (dBm/MHz)	2.70	2.51	-2.51
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	8.70	8.70	8.70
15.407 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00
Conducted PSD Result (dBm/MHz)	5.60	5.55	0.58

Table 196 - 802.11n / HT20 MCS0 / MIMO CDD / Cores 1+2

Channel	Bottom	Middle	Top
Frequency (MHz)	5260	5280	5320
Conducted PSD Core 1 (dBm/MHz)	3.07	3.14	-1.04
Conducted PSD Core 2 (dBm/MHz)	2.91	3.12	-0.89
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	5.69	5.69	5.69
15.407 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00
Conducted PSD Result (dBm/MHz)	6.00	6.14	2.05

Table 197 - 802.11n / HT20 MCS8 / MIMO SDM / Cores 1+2

Channel	Bottom	Middle	Top
Frequency (MHz)	5260	5280	5320
Conducted PSD Core 0 (dBm/MHz)	-0.57	-0.54	-3.72
Conducted PSD Core 1 (dBm/MHz)	-0.53	-0.36	-3.58
Conducted PSD Core 2 (dBm/MHz)	-0.43	-0.54	-3.71
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	10.28	10.28	10.28
15.407 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00
Conducted PSD Result (dBm/MHz)	4.26	4.29	1.10

Table 198 - 802.11n / HT20 MCS0 / MIMO CDD / Cores 0+1+2



Channel	Bottom	Middle	Top
Frequency (MHz)	5260	5280	5320
Conducted PSD Core 0 (dBm/MHz)	2.90	3.00	-3.28
Conducted PSD Core 1 (dBm/MHz)	2.92	2.96	-3.35
Conducted PSD Core 2 (dBm/MHz)	2.68	3.13	-3.40
Duty Cycle Correction (dB)	0.12	0.12	0.12
Antenna Directional Gain (dBi)	5.52	5.52	5.52
15.407 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00
Conducted PSD Result (dBm/MHz)	7.72	7.92	1.55

Table 199 - 802.11n / HT20 MCS16 / MIMO SDM / Cores 0+1+2

Channel	Bottom	Middle	Top
Frequency (MHz)	5260	5280	5320
Raw Conducted PSD (dBm/MHz)	3.12	2.84	-0.43
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	5.38	5.38	5.38
15.407 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00
Conducted PSD Result (dBm/MHz)	3.12	2.84	-0.43

Table 200 - 802.11n / HT20 MCS0 / Aux Core

Channel	Bottom	Top
Frequency (MHz)	5270	5310
Raw Conducted PSD (dBm/MHz)	-0.39	-6.21
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	5.98	5.98
15.407 Conducted PSD Limit (dBm/MHz)	11.00	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00	11.00
Conducted PSD Result (dBm/MHz)	-0.39	-6.21

Table 201 - 802.11n / HT40 MCS0 / SISO / Core 1



Channel	Bottom	Top
Frequency (MHz)	5270	5310
Conducted PSD Core 1 (dBm/MHz)	-0.75	-6.78
Conducted PSD Core 2 (dBm/MHz)	-1.03	-6.94
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	8.70	8.70
15.407 Conducted PSD Limit (dBm/MHz)	11.00	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00	11.00
Conducted PSD Result (dBm/MHz)	2.12	-3.85

Table 202 - 802.11n / HT40 MCS0 / MIMO CDD / Cores 1+2

Channel	Bottom	Top
Frequency (MHz)	5270	5310
Conducted PSD Core 1 (dBm/MHz)	-0.54	-6.16
Conducted PSD Core 2 (dBm/MHz)	-0.96	-6.25
Duty Cycle Correction (dB)	0.16	0.16
Antenna Directional Gain (dBi)	5.69	5.69
15.407 Conducted PSD Limit (dBm/MHz)	11.00	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00	11.00
Conducted PSD Result (dBm/MHz)	2.43	-3.03

Table 203 - 802.11n / HT40 MCS8 / MIMO SDM / Cores 1+2

Channel	Bottom	Top
Frequency (MHz)	5270	5310
Conducted PSD Core 0 (dBm/MHz)	-1.92	-6.56
Conducted PSD Core 1 (dBm/MHz)	-1.96	-7.02
Conducted PSD Core 2 (dBm/MHz)	-1.84	-6.71
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	10.28	10.28
15.407 Conducted PSD Limit (dBm/MHz)	11.00	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00	11.00
Conducted PSD Result (dBm/MHz)	2.87	-1.98

Table 204 - 802.11n / HT40 MCS0 / MIMO CDD / Cores 0+1+2



Channel	Bottom	Top
Frequency (MHz)	5270	5310
Conducted PSD Core 0 (dBm/MHz)	-1.73	-6.50
Conducted PSD Core 1 (dBm/MHz)	-1.48	-6.40
Conducted PSD Core 2 (dBm/MHz)	-1.39	-6.16
Duty Cycle Correction (dB)	0.22	0.23
Antenna Directional Gain (dBi)	5.52	5.52
15.407 Conducted PSD Limit (dBm/MHz)	11.00	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00	11.00
Conducted PSD Result (dBm/MHz)	3.47	-1.35

Table 205 - 802.11n / HT40 MCS16 / MIMO SDM / Cores 0+1+2

Channel	Bottom	Top
Frequency (MHz)	5270	5310
Raw Conducted PSD (dBm/MHz)	-0.31	-4.03
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	5.38	5.38
15.407 Conducted PSD Limit (dBm/MHz)	11.00	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00	11.00
Conducted PSD Result (dBm/MHz)	-0.31	-4.03

Table 206 - 802.11n / HT40 MCS0 / Aux Core

Channel	Bottom	Middle	Top
Frequency (MHz)	5260	5280	5320
Conducted PSD Core 1 (dBm/MHz)	3.71	3.51	-2.08
Conducted PSD Core 2 (dBm/MHz)	3.38	3.48	-2.25
Duty Cycle Correction (dB)	0.31	0.34	0.25
Antenna Directional Gain (dBi)	8.70	8.70	8.70
15.407 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00
Conducted PSD Result (dBm/MHz)	6.86	6.84	1.10

Table 207 - 802.11ac / VHT20 MCS0x1 / MIMO TxBF / Cores 1+2



Channel	Bottom	Middle	Top
Frequency (MHz)	5260	5280	5320
Conducted PSD Core 0 (dBm/MHz)	0.41	0.66	-3.91
Conducted PSD Core 1 (dBm/MHz)	0.95	1.02	-3.77
Conducted PSD Core 2 (dBm/MHz)	0.66	0.64	-3.70
Duty Cycle Correction (dB)	0.29	0.29	0.31
Antenna Directional Gain (dBi)	10.28	10.28	10.28
15.407 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00
Conducted PSD Result (dBm/MHz)	5.74	5.84	1.29

Table 208 - 802.11ac / VHT20 MCS0x1 / MIMO TxBF / Cores 0+1+2

Channel	Bottom	Top
Frequency (MHz)	5270	5310
Conducted PSD Core 1 (dBm/MHz)	-2.21	-7.60
Conducted PSD Core 2 (dBm/MHz)	-1.86	-7.80
Duty Cycle Correction (dB)	0.28	0.26
Antenna Directional Gain (dBi)	8.70	8.70
15.407 Conducted PSD Limit (dBm/MHz)	11.00	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00	11.00
Conducted PSD Result (dBm/MHz)	1.26	-4.43

Table 209 - 802.11ac / VHT40 MCS0x1 / MIMO TxBF / Cores 1+2

Channel	Bottom	Top
Frequency (MHz)	5270	5310
Conducted PSD Core 0 (dBm/MHz)	-3.81	-9.01
Conducted PSD Core 1 (dBm/MHz)	-3.48	-8.56
Conducted PSD Core 2 (dBm/MHz)	-3.17	-8.65
Duty Cycle Correction (dB)	0.32	0.36
Antenna Directional Gain (dBi)	10.28	10.28
15.407 Conducted PSD Limit (dBm/MHz)	11.00	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00	11.00
Conducted PSD Result (dBm/MHz)	1.61	-3.60

Table 210 - 802.11ac / VHT40 MCS0x1 / MIMO TxBF / Cores 0+1+2



Channel	Middle
Frequency (MHz)	5290
Raw Conducted PSD (dBm/MHz)	-9.24
Duty Cycle Correction (dB)	0.18
Antenna Directional Gain (dBi)	5.98
15.407 Conducted PSD Limit (dBm/MHz)	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00
Conducted PSD Result (dBm/MHz)	-9.06

Table 211 - 802.11ac / VHT80 MCS0x1 / SISO / Core 1

Channel	Middle
Frequency (MHz)	5290
Conducted PSD Core 1 (dBm/MHz)	-10.97
Conducted PSD Core 2 (dBm/MHz)	-11.53
Duty Cycle Correction (dB)	0.18
Antenna Directional Gain (dBi)	8.70
15.407 Conducted PSD Limit (dBm/MHz)	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00
Conducted PSD Result (dBm/MHz)	-8.06

Table 212 - 802.11ac / VHT80 MCS0x1 / MIMO CDD / Cores 1+2

Channel	Middle
Frequency (MHz)	5290
Conducted PSD Core 1 (dBm/MHz)	-9.20
Conducted PSD Core 2 (dBm/MHz)	-9.32
Duty Cycle Correction (dB)	0.31
Antenna Directional Gain (dBi)	5.69
15.407 Conducted PSD Limit (dBm/MHz)	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00
Conducted PSD Result (dBm/MHz)	-5.94

Table 213 - 802.11ac / VHT80 MCS0x2 / MIMO SDM / Cores 1+2



Channel	Middle
Frequency (MHz)	5290
Conducted PSD Core 1 (dBm/MHz)	-12.00
Conducted PSD Core 2 (dBm/MHz)	-12.50
Duty Cycle Correction (dB)	0.29
Antenna Directional Gain (dBi)	8.70
15.407 Conducted PSD Limit (dBm/MHz)	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00
Conducted PSD Result (dBm/MHz)	-8.94

Table 214 - 802.11ac / VHT80 MCS0x1 / MIMO TxBF / Cores 1+2

Channel	Middle
Frequency (MHz)	5290
Conducted PSD Core 0 (dBm/MHz)	-11.23
Conducted PSD Core 1 (dBm/MHz)	-11.14
Conducted PSD Core 2 (dBm/MHz)	-11.50
Duty Cycle Correction (dB)	N/A SA-1
Antenna Directional Gain (dBi)	10.28
15.407 Conducted PSD Limit (dBm/MHz)	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00
Conducted PSD Result (dBm/MHz)	-6.51

Table 215 - 802.11ac / VHT80 MCS0x1 / MIMO CDD / Cores 0+1+2

Channel	Middle
Frequency (MHz)	5290
Conducted PSD Core 0 (dBm/MHz)	-9.46
Conducted PSD Core 1 (dBm/MHz)	-9.46
Conducted PSD Core 2 (dBm/MHz)	-8.98
Duty Cycle Correction (dB)	0.40
Antenna Directional Gain (dBi)	5.52
15.407 Conducted PSD Limit (dBm/MHz)	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00
Conducted PSD Result (dBm/MHz)	-4.12

Table 216 - 802.11ac / VHT80 MCS0x3 / MIMO SDM / Cores 0+1+2



Channel	Middle
Frequency (MHz)	5290
Conducted PSD Core 0 (dBm/MHz)	-13.21
Conducted PSD Core 1 (dBm/MHz)	-13.27
Conducted PSD Core 2 (dBm/MHz)	-12.14
Duty Cycle Correction (dB)	0.42
Antenna Directional Gain (dBi)	10.28
15.407 Conducted PSD Limit (dBm/MHz)	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00
Conducted PSD Result (dBm/MHz)	-7.65

Table 217 - 802.11ac / VHT80 MCS0x1 / MIMO TxBF / Cores 0+1+2

Channel	Middle
Frequency (MHz)	5290
Raw Conducted PSD (dBm/MHz)	-6.86
Duty Cycle Correction (dB)	0.15
Antenna Directional Gain (dBi)	5.38
15.407 Conducted PSD Limit (dBm/MHz)	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00
Conducted PSD Result (dBm/MHz)	-6.72

Table 218 - 802.11ac / VHT80 MCS0x1 / Aux Core



2.2.8 Test Results: U-NII-2C

Channel	Bottom	Middle	Top	Straddle
Frequency (MHz)	5500	5600	5700	5720
Raw Conducted PSD (dBm/MHz)	-1.88	4.57	-1.77	5.00
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	7.59	7.59	7.59	7.59
15.407 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00	11.00
Conducted PSD Result (dBm/MHz)	-1.88	4.57	-1.77	5.00

Table 219 - 802.11a / 6 Mbps / SISO / Core 1

Channel	Bottom	Middle	Top	Straddle
Frequency (MHz)	5500	5600	5700	5720
Raw Conducted PSD (dBm/MHz)	-2.07	4.51	-0.66	5.02
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	7.52	7.52	7.52	7.52
15.407 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00	11.00
Conducted PSD Result (dBm/MHz)	-2.07	4.51	-0.66	5.02

Table 220 - 802.11a / 6 Mbps / Aux Core

Channel	Bottom	Middle	Top	Straddle
Frequency (MHz)	5500	5600	5700	5720
Raw Conducted PSD (dBm/MHz)	-2.00	4.17	-1.96	4.68
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	7.59	7.59	7.59	7.59
15.407 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00	11.00
Conducted PSD Result (dBm/MHz)	-2.00	4.17	-1.96	4.68

Table 221 - 802.11n / HT20 MCS0 / SISO / Core 1



Channel	Bottom	Middle	Top	Straddle
Frequency (MHz)	5500	5600	5700	5720
Conducted PSD Core 1 (dBm/MHz)	-3.31	2.36	-3.49	2.60
Conducted PSD Core 2 (dBm/MHz)	-3.19	2.20	-3.20	2.84
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	10.57	10.57	10.57	10.57
15.407 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00	11.00
Conducted PSD Result (dBm/MHz)	-0.24	5.29	-0.33	5.73

Table 222 - 802.11n / HT20 MCS0 / MIMO CDD / Cores 1+2

Channel	Bottom	Middle	Top	Straddle
Frequency (MHz)	5500	5600	5700	5720
Conducted PSD Core 1 (dBm/MHz)	-3.25	4.04	-3.00	4.62
Conducted PSD Core 2 (dBm/MHz)	-3.25	4.10	-3.48	4.46
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	7.56	7.56	7.56	7.56
15.407 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00	11.00
Conducted PSD Result (dBm/MHz)	-0.24	7.08	-0.22	7.55

Table 223 - 802.11n / HT20 MCS8 / MIMO SDM / Cores 1+2

Channel	Bottom	Middle	Top	Straddle
Frequency (MHz)	5500	5600	5700	5720
Conducted PSD Core 0 (dBm/MHz)	-3.27	-1.35	-3.80	-0.84
Conducted PSD Core 1 (dBm/MHz)	-3.38	-0.98	-3.96	-0.89
Conducted PSD Core 2 (dBm/MHz)	-3.39	-1.12	-3.99	-0.66
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	12.05	12.05	12.05	12.05
15.407 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00	11.00
Conducted PSD Result (dBm/MHz)	1.42	3.63	0.85	3.97

Table 224 - 802.11n / HT20 MCS0 / MIMO CDD / Cores 0+1+2



Channel	Bottom	Middle	Top	Straddle
Frequency (MHz)	5500	5600	5700	5720
Conducted PSD Core 0 (dBm/MHz)	-3.32	3.74	-3.84	4.01
Conducted PSD Core 1 (dBm/MHz)	-3.51	3.58	-3.98	4.11
Conducted PSD Core 2 (dBm/MHz)	-3.03	3.58	-3.83	3.70
Duty Cycle Correction (dB)	0.12	0.12	0.12	0.12
Antenna Directional Gain (dBi)	7.29	7.29	7.29	7.29
15.407 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00	11.00
Conducted PSD Result (dBm/MHz)	1.61	8.52	1.01	8.83

Table 225 - 802.11n / HT20 MCS16 / MIMO SDM / Cores 0+1+2

Channel	Bottom	Middle	Top	Straddle
Frequency (MHz)	5500	5600	5700	5720
Raw Conducted PSD (dBm/MHz)	-2.24	4.11	-0.99	4.56
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	7.52	7.52	7.52	7.52
15.407 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00	11.00
Conducted PSD Result (dBm/MHz)	-2.24	4.11	-0.99	4.56

Table 226 - 802.11n / HT20 MCS0 / Aux Core

Channel	Bottom	Middle	Top	Straddle
Frequency (MHz)	5510	5590	5670	5710
Raw Conducted PSD (dBm/MHz)	-5.58	0.89	-3.88	1.39
Duty Cycle Correction (dB)	0.09	0.09	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	7.59	7.59	7.59	7.59
15.407 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00	11.00
Conducted PSD Result (dBm/MHz)	-5.50	0.98	-3.88	1.39

Table 227 - 802.11n / HT40 MCS0 / SISO / Core 1



Channel	Bottom	Middle	Top	Straddle
Frequency (MHz)	5510	5590	5670	5710
Conducted PSD Core 1 (dBm/MHz)	-6.35	0.73	-4.53	1.26
Conducted PSD Core 2 (dBm/MHz)	-5.98	0.99	-4.67	1.18
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1	0.09	N/A SA-1
Antenna Directional Gain (dBi)	10.57	10.57	10.57	10.57
15.407 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00	11.00
Conducted PSD Result (dBm/MHz)	-3.15	3.87	-1.50	4.23

Table 228 - 802.11n / HT40 MCS0 / MIMO CDD / Cores 1+2

Channel	Bottom	Middle	Top	Straddle
Frequency (MHz)	5510	5590	5670	5710
Conducted PSD Core 1 (dBm/MHz)	-6.36	0.68	-3.48	1.24
Conducted PSD Core 2 (dBm/MHz)	-6.61	0.54	-3.38	1.10
Duty Cycle Correction (dB)	0.16	0.16	0.16	0.16
Antenna Directional Gain (dBi)	7.56	7.56	7.56	7.56
15.407 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00	11.00
Conducted PSD Result (dBm/MHz)	-3.31	3.78	-0.26	4.34

Table 229 - 802.11n / HT40 MCS8 / MIMO SDM / Cores 1+2

Channel	Bottom	Middle	Top	Straddle
Frequency (MHz)	5510	5590	5670	5710
Conducted PSD Core 0 (dBm/MHz)	-7.29	-1.46	-5.24	-0.74
Conducted PSD Core 1 (dBm/MHz)	-7.02	-1.15	-5.19	-0.80
Conducted PSD Core 2 (dBm/MHz)	-7.59	-1.21	-5.42	-0.73
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	12.05	12.05	12.05	12.05
15.407 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00	11.00
Conducted PSD Result (dBm/MHz)	-2.53	3.50	-0.51	4.01

Table 230 - 802.11n / HT40 MCS0 / MIMO CDD / Cores 0+1+2



Channel	Bottom	Middle	Top	Straddle
Frequency (MHz)	5510	5590	5670	5710
Conducted PSD Core 0 (dBm/MHz)	-6.98	0.46	-3.89	1.00
Conducted PSD Core 1 (dBm/MHz)	-7.08	0.52	-4.11	1.06
Conducted PSD Core 2 (dBm/MHz)	-6.86	0.67	-4.25	0.74
Duty Cycle Correction (dB)	0.10	0.22	0.23	0.22
Antenna Directional Gain (dBi)	7.29	7.29	7.29	7.29
15.407 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00	11.00
Conducted PSD Result (dBm/MHz)	-2.10	5.54	0.92	5.93

Table 231 - 802.11n / HT40 MCS16 / MIMO SDM / Cores 0+1+2

Channel	Bottom	Middle	Top	Straddle
Frequency (MHz)	5510	5590	5670	5710
Raw Conducted PSD (dBm/MHz)	-5.24	0.78	-1.09	1.59
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	7.52	7.52	7.52	7.52
15.407 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00	11.00
Conducted PSD Result (dBm/MHz)	-5.24	0.78	-1.09	1.59

Table 232 - 802.11n / HT40 MCS0 / Aux Core

Channel	Bottom	Middle	Top	Straddle
Frequency (MHz)	5500	5600	5700	5720
Conducted PSD Core 1 (dBm/MHz)	-2.96	3.07	-2.74	3.81
Conducted PSD Core 2 (dBm/MHz)	-3.14	2.76	-3.49	3.22
Duty Cycle Correction (dB)	0.26	0.26	0.35	0.27
Antenna Directional Gain (dBi)	10.57	10.57	10.57	10.57
15.407 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00	11.00
Conducted PSD Result (dBm/MHz)	0.22	6.19	0.26	6.81

Table 233 - 802.11ac / VHT20 MCS0x1 / MIMO TxBF / Cores 1+2



Channel	Bottom	Middle	Top	Straddle
Frequency (MHz)	5500	5600	5700	5720
Conducted PSD Core 0 (dBm/MHz)	-3.64	-0.43	-4.32	0.21
Conducted PSD Core 1 (dBm/MHz)	-3.79	-0.30	-4.29	-0.15
Conducted PSD Core 2 (dBm/MHz)	-3.79	-0.27	-4.34	-0.30
Duty Cycle Correction (dB)	0.37	0.29	0.30	0.29
Antenna Directional Gain (dBi)	12.05	12.05	12.05	12.05
15.407 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00	11.00
Conducted PSD Result (dBm/MHz)	1.40	4.73	0.75	4.99

Table 234 - 802.11ac / VHT20 MCS0x1 / MIMO TxBF / Cores 0+1+2

Channel	Bottom	Middle	Top	Straddle
Frequency (MHz)	5510	5590	5670	5710
Conducted PSD Core 1 (dBm/MHz)	-7.49	0.49	-5.82	1.23
Conducted PSD Core 2 (dBm/MHz)	-7.31	0.41	-5.75	0.96
Duty Cycle Correction (dB)	0.26	0.28	0.25	0.26
Antenna Directional Gain (dBi)	10.57	10.57	10.57	10.57
15.407 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00	11.00
Conducted PSD Result (dBm/MHz)	-4.13	3.74	-2.52	4.36

Table 235 - 802.11ac / VHT40 MCS0x1 / MIMO TxBF / Cores 1+2

Channel	Bottom	Middle	Top	Straddle
Frequency (MHz)	5510	5590	5670	5710
Conducted PSD Core 0 (dBm/MHz)	-9.28	-2.02	-7.68	-1.76
Conducted PSD Core 1 (dBm/MHz)	-8.74	-2.65	-7.31	-1.67
Conducted PSD Core 2 (dBm/MHz)	-9.04	-1.93	-6.56	-1.98
Duty Cycle Correction (dB)	0.36	0.37	0.31	0.36
Antenna Directional Gain (dBi)	12.05	12.05	12.05	12.05
15.407 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00	11.00
Conducted PSD Result (dBm/MHz)	-3.88	2.95	-2.08	3.33

Table 236 - 802.11ac / VHT40 MCS0x1 / MIMO TxBF / Cores 0+1+2



Channel	Bottom	Top	Straddle
Frequency (MHz)	5530	5610	5690
Raw Conducted PSD (dBm/MHz)	-8.29	-4.72	-4.11
Duty Cycle Correction (dB)	0.17	0.18	N/A SA-1
Antenna Directional Gain (dBi)	7.59	7.59	7.59
15.407 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00
Conducted PSD Result (dBm/MHz)	-8.12	-4.53	-4.11

Table 237 - 802.11ac / VHT80 MCS0x1 / SISO / Core 1

Channel	Bottom	Top	Straddle
Frequency (MHz)	5530	5610	5690
Conducted PSD Core 1 (dBm/MHz)	-9.21	-5.74	-5.21
Conducted PSD Core 2 (dBm/MHz)	-9.63	-6.25	-5.47
Duty Cycle Correction (dB)	0.17	0.18	0.18
Antenna Directional Gain (dBi)	10.57	10.57	10.57
15.407 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00
Conducted PSD Result (dBm/MHz)	-6.23	-2.80	-2.15

Table 238 - 802.11ac / VHT80 MCS0x1 / MIMO CDD / Cores 1+2

Channel	Bottom	Top	Straddle
Frequency (MHz)	5530	5610	5690
Conducted PSD Core 1 (dBm/MHz)	-10.27	-5.33	-3.14
Conducted PSD Core 2 (dBm/MHz)	-9.81	-5.50	-3.13
Duty Cycle Correction (dB)	0.31	0.32	0.32
Antenna Directional Gain (dBi)	7.56	7.56	7.56
15.407 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00
Conducted PSD Result (dBm/MHz)	-6.72	-2.08	0.20

Table 239 - 802.11ac / VHT80 MCS0x2 / MIMO SDM / Cores 1+2



Channel	Bottom	Top	Straddle
Frequency (MHz)	5530	5610	5690
Conducted PSD Core 1 (dBm/MHz)	-10.71	-7.64	-4.93
Conducted PSD Core 2 (dBm/MHz)	-10.76	-7.61	-5.10
Duty Cycle Correction (dB)	0.29	0.30	0.28
Antenna Directional Gain (dBi)	10.57	10.57	10.57
15.407 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00
Conducted PSD Result (dBm/MHz)	-7.44	-4.32	-1.73

Table 240 - 802.11ac / VHT80 MCS0x1 / MIMO TxBF / Cores 1+2

Channel	Bottom	Top	Straddle
Frequency (MHz)	5530	5610	5690
Conducted PSD Core 0 (dBm/MHz)	-10.13	-6.11	-3.05
Conducted PSD Core 1 (dBm/MHz)	-10.28	-6.13	-3.22
Conducted PSD Core 2 (dBm/MHz)	-10.15	-6.10	-3.36
Duty Cycle Correction (dB)	0.17	0.18	0.18
Antenna Directional Gain (dBi)	12.05	12.05	12.05
15.407 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00
Conducted PSD Result (dBm/MHz)	-5.24	-1.16	1.75

Table 241 - 802.11ac / VHT80 MCS0x1 / MIMO CDD / Cores 0+1+2

Channel	Bottom	Top	Straddle
Frequency (MHz)	5530	5610	5690
Conducted PSD Core 0 (dBm/MHz)	-10.11	-5.55	-3.11
Conducted PSD Core 1 (dBm/MHz)	-9.77	-5.17	-2.90
Conducted PSD Core 2 (dBm/MHz)	-10.30	-5.59	-3.35
Duty Cycle Correction (dB)	0.40	0.42	0.42
Antenna Directional Gain (dBi)	7.29	7.29	7.29
15.407 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00
Conducted PSD Result (dBm/MHz)	-4.88	-0.24	2.07

Table 242 - 802.11ac / VHT80 MCS0x3 / MIMO SDM / Cores 0+1+2



Channel	Bottom	Top	Straddle
Frequency (MHz)	5530	5610	5690
Conducted PSD Core 0 (dBm/MHz)	-12.28	-7.81	-5.21
Conducted PSD Core 1 (dBm/MHz)	-12.31	-7.96	-5.32
Conducted PSD Core 2 (dBm/MHz)	-12.64	-8.20	-5.60
Duty Cycle Correction (dB)	0.43	0.43	0.41
Antenna Directional Gain (dBi)	12.05	12.05	12.05
15.407 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00
Conducted PSD Result (dBm/MHz)	-7.21	-2.78	-0.19

Table 243 - 802.11ac / VHT80 MCS0x1 / MIMO TxBF / Cores 0+1+2

Channel	Bottom	Top	Straddle
Frequency (MHz)	5530	5610	5690
Raw Conducted PSD (dBm/MHz)	-7.64	-2.33	-2.20
Duty Cycle Correction (dB)	0.15	0.15	0.14
Antenna Directional Gain (dBi)	7.52	7.52	7.52
15.407 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00
RSS-247 Conducted PSD Limit (dBm/MHz)	11.00	11.00	11.00
Conducted PSD Result (dBm/MHz)	-7.49	-2.18	-2.06

Table 244 - 802.11ac / VHT80 MCS0x1 / Aux Core



2.2.9 Test Results: U-NII-3

Channel	Straddle	Bottom	Middle	Top
Frequency (MHz)	5720	5745	5785	5825
Raw Conducted PSD (dBm/500kHz)	1.69	1.37	0.98	1.04
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	7.59	7.31	7.31	7.31
15.407 Conducted PSD Limit (dBm/500kHz)	28.41	28.69	28.69	28.69
RSS-247 Conducted PSD Limit (dBm/500kHz)	28.41	28.69	28.69	28.69
Conducted PSD Result (dBm/500kHz)	1.69	1.37	0.98	1.04

Table 245 - 802.11a / 6 Mbps / SISO / Core 1

Channel	Straddle	Bottom	Middle	Top
Frequency (MHz)	5720	5745	5785	5825
Raw Conducted PSD (dBm/500kHz)	1.30	1.06	1.84	1.83
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	7.52	6.87	6.87	6.87
15.407 Conducted PSD Limit (dBm/500kHz)	28.48	29.13	29.13	29.13
RSS-247 Conducted PSD Limit (dBm/500kHz)	28.48	29.13	29.13	29.13
Conducted PSD Result (dBm/500kHz)	1.30	1.06	1.84	1.83

Table 246 - 802.11a / 6 Mbps / Aux Core

Channel	Straddle	Bottom	Middle	Top
Frequency (MHz)	5720	5745	5785	5825
Raw Conducted PSD (dBm/500kHz)	1.36	1.30	1.09	1.26
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	7.59	7.31	7.31	7.31
15.407 Conducted PSD Limit (dBm/500kHz)	28.41	28.69	28.69	28.69
RSS-247 Conducted PSD Limit (dBm/500kHz)	28.41	28.69	28.69	28.69
Conducted PSD Result (dBm/500kHz)	1.36	1.30	1.09	1.26

Table 247 - 802.11n / HT20 MCS0 / SISO / Core 1



Channel	Straddle	Bottom	Middle	Top
Frequency (MHz)	5720	5745	5785	5825
Conducted PSD Core 1 (dBm/500kHz)	-1.10	1.17	0.81	1.07
Conducted PSD Core 2 (dBm/500kHz)	-0.88	1.30	1.43	-0.03
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	10.57	10.10	10.10	10.10
15.407 Conducted PSD Limit (dBm/500kHz)	25.43	25.90	25.90	25.90
RSS-247 Conducted PSD Limit (dBm/500kHz)	25.43	25.90	25.90	25.90
Conducted PSD Result (dBm/500kHz)	2.03	4.24	4.14	3.57

Table 248 - 802.11n / HT20 MCS0 / MIMO CDD / Cores 1+2

Channel	Straddle	Bottom	Middle	Top
Frequency (MHz)	5720	5745	5785	5825
Conducted PSD Core 1 (dBm/500kHz)	0.95	0.43	1.18	0.95
Conducted PSD Core 2 (dBm/500kHz)	0.48	0.86	0.64	0.17
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	7.56	7.10	7.10	7.10
15.407 Conducted PSD Limit (dBm/500kHz)	28.44	28.90	28.90	28.90
RSS-247 Conducted PSD Limit (dBm/500kHz)	28.44	28.90	28.90	28.90
Conducted PSD Result (dBm/500kHz)	3.73	3.66	3.93	3.59

Table 249 - 802.11n / HT20 MCS8 / MIMO SDM / Cores 1+2

Channel	Straddle	Bottom	Middle	Top
Frequency (MHz)	5720	5745	5785	5825
Conducted PSD Core 0 (dBm/500kHz)	-4.36	0.25	1.53	1.26
Conducted PSD Core 1 (dBm/500kHz)	-4.05	1.09	1.15	1.18
Conducted PSD Core 2 (dBm/500kHz)	-4.49	0.31	-0.04	-0.38
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	12.05	11.58	11.58	11.58
15.407 Conducted PSD Limit (dBm/500kHz)	23.95	24.42	24.42	24.42
RSS-247 Conducted PSD Limit (dBm/500kHz)	23.95	24.42	24.42	24.42
Conducted PSD Result (dBm/500kHz)	0.48	5.34	5.70	5.52

Table 250 - 802.11n / HT20 MCS0 / MIMO CDD / Cores 0+1+2



Channel	Straddle	Bottom	Middle	Top
Frequency (MHz)	5720	5745	5785	5825
Conducted PSD Core 0 (dBm/500kHz)	0.49	1.13	0.85	1.03
Conducted PSD Core 1 (dBm/500kHz)	0.28	1.19	0.80	1.21
Conducted PSD Core 2 (dBm/500kHz)	0.58	0.60	0.04	-0.43
Duty Cycle Correction (dB)	0.12	0.12	0.12	N/A SA-1
Antenna Directional Gain (dBi)	7.29	6.82	6.82	6.82
15.407 Conducted PSD Limit (dBm/500kHz)	28.71	29.18	29.18	29.18
RSS-247 Conducted PSD Limit (dBm/500kHz)	28.71	29.18	29.18	29.18
Conducted PSD Result (dBm/500kHz)	5.34	5.87	5.47	5.43

Table 251 - 802.11n / HT20 MCS16 / MIMO SDM / Cores 0+1+2

Channel	Straddle	Bottom	Middle	Top
Frequency (MHz)	5720	5745	5785	5825
Raw Conducted PSD (dBm/500kHz)	0.76	0.70	0.74	0.87
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	7.52	6.87	6.87	6.87
15.407 Conducted PSD Limit (dBm/500kHz)	28.48	29.13	29.13	29.13
RSS-247 Conducted PSD Limit (dBm/500kHz)	28.48	29.13	29.13	29.13
Conducted PSD Result (dBm/500kHz)	0.76	0.70	0.74	0.87

Table 252 - 802.11n / HT20 MCS0 / Aux Core

Channel	Straddle	Bottom	Top
Frequency (MHz)	5710	5755	5795
Raw Conducted PSD (dBm/500kHz)	-2.52	-2.70	-2.08
Duty Cycle Correction (dB)	0.09	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	7.59	7.31	7.31
15.407 Conducted PSD Limit (dBm/500kHz)	28.41	28.69	28.69
RSS-247 Conducted PSD Limit (dBm/500kHz)	28.41	28.69	28.69
Conducted PSD Result (dBm/500kHz)	-2.43	-2.70	-2.08

Table 253 - 802.11n / HT40 MCS0 / SISO / Core 1



Channel	Straddle	Bottom	Top
Frequency (MHz)	5710	5755	5795
Conducted PSD Core 1 (dBm/500kHz)	-2.14	-2.60	-2.70
Conducted PSD Core 2 (dBm/500kHz)	-2.68	-3.22	-2.67
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	10.57	10.10	10.10
15.407 Conducted PSD Limit (dBm/500kHz)	25.43	25.90	25.90
RSS-247 Conducted PSD Limit (dBm/500kHz)	25.43	25.90	25.90
Conducted PSD Result (dBm/500kHz)	0.61	0.11	0.33

Table 254 - 802.11n / HT40 MCS0 / MIMO CDD / Cores 1+2

Channel	Straddle	Bottom	Top
Frequency (MHz)	5710	5755	5795
Conducted PSD Core 1 (dBm/500kHz)	-3.09	-2.44	-1.93
Conducted PSD Core 2 (dBm/500kHz)	-3.37	-3.11	-2.16
Duty Cycle Correction (dB)	0.16	0.16	0.16
Antenna Directional Gain (dBi)	7.56	7.10	7.10
15.407 Conducted PSD Limit (dBm/500kHz)	28.44	28.90	28.90
RSS-247 Conducted PSD Limit (dBm/500kHz)	28.44	28.90	28.90
Conducted PSD Result (dBm/500kHz)	-0.06	0.41	1.13

Table 255 - 802.11n / HT40 MCS8 / MIMO SDM / Cores 1+2

Channel	Straddle	Bottom	Top
Frequency (MHz)	5710	5755	5795
Conducted PSD Core 0 (dBm/500kHz)	-4.17	-4.40	-2.13
Conducted PSD Core 1 (dBm/500kHz)	-4.69	-3.96	-2.34
Conducted PSD Core 2 (dBm/500kHz)	-4.22	-4.45	-3.54
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	12.05	11.58	11.58
15.407 Conducted PSD Limit (dBm/500kHz)	23.95	24.42	24.42
RSS-247 Conducted PSD Limit (dBm/500kHz)	23.95	24.42	24.42
Conducted PSD Result (dBm/500kHz)	0.42	0.50	2.14

Table 256 - 802.11n / HT40 MCS0 / MIMO CDD / Cores 0+1+2



Channel	Straddle	Bottom	Top
Frequency (MHz)	5710	5755	5795
Conducted PSD Core 0 (dBm/500kHz)	-2.62	-3.86	-2.46
Conducted PSD Core 1 (dBm/500kHz)	-2.86	-3.53	-2.42
Conducted PSD Core 2 (dBm/500kHz)	-3.46	-3.82	-3.07
Duty Cycle Correction (dB)	0.22	0.23	0.22
Antenna Directional Gain (dBi)	7.29	6.82	6.82
15.407 Conducted PSD Limit (dBm/500kHz)	28.71	29.18	29.18
RSS-247 Conducted PSD Limit (dBm/500kHz)	28.71	29.18	29.18
Conducted PSD Result (dBm/500kHz)	2.03	1.26	2.36

Table 257 - 802.11n / HT40 MCS16 / MIMO SDM / Cores 0+1+2

Channel	Straddle	Bottom	Top
Frequency (MHz)	5710	5755	5795
Raw Conducted PSD (dBm/500kHz)	-2.93	-3.00	-2.25
Duty Cycle Correction (dB)	N/A SA-1	N/A SA-1	N/A SA-1
Antenna Directional Gain (dBi)	7.52	6.87	6.87
15.407 Conducted PSD Limit (dBm/500kHz)	28.48	29.13	29.13
RSS-247 Conducted PSD Limit (dBm/500kHz)	28.48	29.13	29.13
Conducted PSD Result (dBm/500kHz)	-2.93	-3.00	-2.25

Table 258 - 802.11n / HT40 MCS0 / Aux Core

Channel	Straddle	Bottom	Middle	Top
Frequency (MHz)	5720	5745	5785	5825
Conducted PSD Core 1 (dBm/500kHz)	-2.60	2.00	2.47	2.09
Conducted PSD Core 2 (dBm/500kHz)	-2.48	1.40	2.48	2.48
Duty Cycle Correction (dB)	0.24	0.27	0.38	0.26
Antenna Directional Gain (dBi)	10.57	10.10	10.10	10.10
15.407 Conducted PSD Limit (dBm/500kHz)	25.43	25.90	25.90	25.90
RSS-247 Conducted PSD Limit (dBm/500kHz)	25.43	25.90	25.90	25.90
Conducted PSD Result (dBm/500kHz)	0.71	4.99	5.86	5.56

Table 259 - 802.11ac / VHT20 MCS0x1 / MIMO TxBF / Cores 1+2



Channel	Straddle	Bottom	Middle	Top
Frequency (MHz)	5720	5745	5785	5825
Conducted PSD Core 0 (dBm/500kHz)	-5.74	0.67	2.86	1.93
Conducted PSD Core 1 (dBm/500kHz)	-5.52	1.32	2.07	1.08
Conducted PSD Core 2 (dBm/500kHz)	-5.28	0.90	1.28	1.56
Duty Cycle Correction (dB)	0.29	0.30	0.30	0.28
Antenna Directional Gain (dBi)	12.05	11.58	11.58	11.58
15.407 Conducted PSD Limit (dBm/500kHz)	23.95	24.42	24.42	24.42
RSS-247 Conducted PSD Limit (dBm/500kHz)	23.95	24.42	24.42	24.42
Conducted PSD Result (dBm/500kHz)	-0.45	6.04	7.19	6.59

Table 260 - 802.11ac / VHT20 MCS0x1 / MIMO TxBF / Cores 0+1+2

Channel	Straddle	Bottom	Top
Frequency (MHz)	5710	5755	5795
Conducted PSD Core 1 (dBm/500kHz)	-2.91	-4.58	-2.35
Conducted PSD Core 2 (dBm/500kHz)	-3.54	-4.35	-1.99
Duty Cycle Correction (dB)	0.27	0.26	0.26
Antenna Directional Gain (dBi)	10.57	10.10	10.10
15.407 Conducted PSD Limit (dBm/500kHz)	25.43	25.90	25.90
RSS-247 Conducted PSD Limit (dBm/500kHz)	25.43	25.90	25.90
Conducted PSD Result (dBm/500kHz)	0.07	-1.20	1.10

Table 261 - 802.11ac / VHT40 MCS0x1 / MIMO TxBF / Cores 1+2

Channel	Straddle	Bottom	Top
Frequency (MHz)	5710	5755	5795
Conducted PSD Core 0 (dBm/500kHz)	-5.84	-5.85	-2.04
Conducted PSD Core 1 (dBm/500kHz)	-5.98	-5.95	-2.38
Conducted PSD Core 2 (dBm/500kHz)	-6.32	-6.29	-2.33
Duty Cycle Correction (dB)	0.33	0.42	0.33
Antenna Directional Gain (dBi)	12.05	11.58	11.58
15.407 Conducted PSD Limit (dBm/500kHz)	23.95	24.42	24.42
RSS-247 Conducted PSD Limit (dBm/500kHz)	23.95	24.42	24.42
Conducted PSD Result (dBm/500kHz)	-0.94	-0.83	2.86

Table 262 - 802.11ac / VHT40 MCS0x1 / MIMO TxBF / Cores 0+1+2



Channel	Straddle	Middle
Frequency (MHz)	5690	5775
Raw Conducted PSD (dBm/500kHz)	-7.20	-6.99
Duty Cycle Correction (dB)	0.18	0.18
Antenna Directional Gain (dBi)	7.59	7.31
15.407 Conducted PSD Limit (dBm/500kHz)	28.41	28.69
RSS-247 Conducted PSD Limit (dBm/500kHz)	28.41	28.69
Conducted PSD Result (dBm/500kHz)	-7.02	-6.81

Table 263 - 802.11ac / VHT80 MCS0x1 / SISO / Core 1

Channel	Straddle	Middle
Frequency (MHz)	5690	5775
Conducted PSD Core 1 (dBm/500kHz)	-8.13	-9.68
Conducted PSD Core 2 (dBm/500kHz)	-7.99	-8.99
Duty Cycle Correction (dB)	0.18	0.18
Antenna Directional Gain (dBi)	10.57	10.10
15.407 Conducted PSD Limit (dBm/500kHz)	25.43	25.90
RSS-247 Conducted PSD Limit (dBm/500kHz)	25.43	25.90
Conducted PSD Result (dBm/500kHz)	-4.87	-6.13

Table 264 - 802.11ac / VHT80 MCS0x1 / MIMO CDD / Cores 1+2

Channel	Straddle	Middle
Frequency (MHz)	5690	5775
Conducted PSD Core 1 (dBm/500kHz)	-8.02	-9.17
Conducted PSD Core 2 (dBm/500kHz)	-8.22	-8.98
Duty Cycle Correction (dB)	0.32	0.32
Antenna Directional Gain (dBi)	7.56	7.10
15.407 Conducted PSD Limit (dBm/500kHz)	28.44	28.90
RSS-247 Conducted PSD Limit (dBm/500kHz)	28.44	28.90
Conducted PSD Result (dBm/500kHz)	-4.79	-5.75

Table 265 - 802.11ac / VHT80 MCS0x2 / MIMO SDM / Cores 1+2



Channel	Straddle	Middle
Frequency (MHz)	5690	5775
Conducted PSD Core 1 (dBm/500kHz)	-10.23	-10.46
Conducted PSD Core 2 (dBm/500kHz)	-9.86	-10.82
Duty Cycle Correction (dB)	0.28	0.30
Antenna Directional Gain (dBi)	10.57	10.10
15.407 Conducted PSD Limit (dBm/500kHz)	25.43	25.90
RSS-247 Conducted PSD Limit (dBm/500kHz)	25.43	25.90
Conducted PSD Result (dBm/500kHz)	-6.75	-7.32

Table 266 - 802.11ac / VHT80 MCS0x1 / MIMO TxBF / Cores 1+2

Channel	Straddle	Middle
Frequency (MHz)	5690	5775
Conducted PSD Core 0 (dBm/500kHz)	-8.35	-9.55
Conducted PSD Core 1 (dBm/500kHz)	-8.28	-10.05
Conducted PSD Core 2 (dBm/500kHz)	-8.35	-9.44
Duty Cycle Correction (dB)	0.18	0.18
Antenna Directional Gain (dBi)	12.05	11.58
15.407 Conducted PSD Limit (dBm/500kHz)	23.95	24.42
RSS-247 Conducted PSD Limit (dBm/500kHz)	23.95	24.42
Conducted PSD Result (dBm/500kHz)	-3.38	-4.72

Table 267 - 802.11ac / VHT80 MCS0x1 / MIMO CDD / Cores 0+1+2

Channel	Straddle	Middle
Frequency (MHz)	5690	5775
Conducted PSD Core 0 (dBm/500kHz)	-7.76	-9.72
Conducted PSD Core 1 (dBm/500kHz)	-8.24	-8.42
Conducted PSD Core 2 (dBm/500kHz)	-8.42	-8.75
Duty Cycle Correction (dB)	0.38	0.42
Antenna Directional Gain (dBi)	7.29	6.82
15.407 Conducted PSD Limit (dBm/500kHz)	28.71	29.18
RSS-247 Conducted PSD Limit (dBm/500kHz)	28.71	29.18
Conducted PSD Result (dBm/500kHz)	-2.98	-3.74

Table 268 - 802.11ac / VHT80 MCS0x3 / MIMO SDM / Cores 0+1+2



Channel	Straddle	Middle
Frequency (MHz)	5690	5775
Conducted PSD Core 0 (dBm/500kHz)	-10.76	-12.00
Conducted PSD Core 1 (dBm/500kHz)	-10.99	-11.71
Conducted PSD Core 2 (dBm/500kHz)	-10.18	-11.33
Duty Cycle Correction (dB)	0.45	0.41
Antenna Directional Gain (dBi)	12.05	11.58
15.407 Conducted PSD Limit (dBm/500kHz)	23.95	24.42
RSS-247 Conducted PSD Limit (dBm/500kHz)	23.95	24.42
Conducted PSD Result (dBm/500kHz)	-5.41	-6.49

Table 269 - 802.11ac / VHT80 MCS0x1 / MIMO TxBF / Cores 0+1+2

Channel	Straddle	Middle
Frequency (MHz)	5690	5775
Raw Conducted PSD (dBm/500kHz)	-7.40	-6.33
Duty Cycle Correction (dB)	0.15	0.15
Antenna Directional Gain (dBi)	7.52	6.87
15.407 Conducted PSD Limit (dBm/500kHz)	28.48	29.13
RSS-247 Conducted PSD Limit (dBm/500kHz)	28.48	29.13
Conducted PSD Result (dBm/500kHz)	-7.25	-6.18

Table 270 - 802.11ac / VHT80 MCS0x1 / Aux Core



2.2.10 Limits

FCC 47 CFR Part 15E, Limit Clause 15.407(a)

Condition of Operation	Frequency Range (MHz)			
	5150-5250	5250-5350	5470-5725	5725-5850
Max Conducted Power Spectral Density	17 dBm/MHz for master device 11 dBm/MHz for mobile/portable client device	11 dBm/MHz		30 dBm/500 kHz

Table 271

ISED RSS-247, Limit Clause 6.2.1.1, 6.2.2.1, 6.2.3.1 and 6.2.4.1

Device	Frequency Range (MHz)			
	5150-5250	5250-5350	5470-5725	5725-5850
OEM installed in vehicles	-	-	-	-
Other	≤10 dBm/MHz EIRP	≤11 dBm/MHz	≤11 dBm/MHz	≤30 dBm/500kHz

Table 272



2.2.11 Test Location and Test Equipment Used

This test was carried out in RF Laboratory 1.

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Due
Hygrometer	Rotronic	I-1000	3220	12	25-Sep-2020
Frequency Standard	Spectracom	SecureSync 1200-0408-0601	4393	6	16-Apr-2020
EXA	Keysight Technologies	N9010B	4969	24	21-Dec-2019
Network Analyser	Keysight Technologies	E5063A	5018	12	20-May-2020
Cable (40 GHz)	Rosenberger	LU1-001-2000	5024	-	O/P Mon
Electronic Calibration Module	Keysight Technologies	85093C	5188	12	21-May-2020
AC Programmable Power Supply	iTech	IT7324	5227	-	O/P Mon
10 dB Attenuator	Telegartner	J01156A0031	Not Serialised	-	O/P Mon
10 dB Attenuator	Telegartner	J01156A0031	Not Serialised	-	O/P Mon
10 dB Attenuator	Telegartner	J01156A0031	Not Serialised	-	O/P Mon
10 dB Attenuator	Telegartner	J01156A0031	Not Serialised	-	O/P Mon

Table 273



2.3 Emission Bandwidth

2.3.1 Specification Reference

FCC 47 CFR Part 15E, Clause 15.407 (a)
ISED RSS-247, Clause 6.2

2.3.2 Equipment Under Test and Modification State

A2304, S/N: C02Z1003N0GT - Modification State 0

2.3.3 Date of Test

23-October-2019 to 14-November-2019

2.3.4 Test Method

The test was performed in accordance with ANSI C63.10, clause 12.4.1 and 12.4.2 and ISDEC RSS-GEN, clause 4.6.1 and 4.6.2

For modes of operation using multiple cores, measurements were made on each core but only the worst case results are reported. Worst case was considered as the narrowest results for 6 dB bandwidth and the widest result for 26 dB bandwidth and 99% occupied bandwidth.

2.3.5 Environmental Conditions

Ambient Temperature	22.0 - 26.0 °C
Relative Humidity	25.2 - 49.6 %



2.3.6 Test Results: U-NII-1

Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
26 dB Bandwidth (MHz)	21.720	29.040	26.400
99% Bandwidth (MHz)	16.674	16.849	16.827

Table 274 - 802.11a / 6 Mbps / SISO / Core 2 / Country Code US

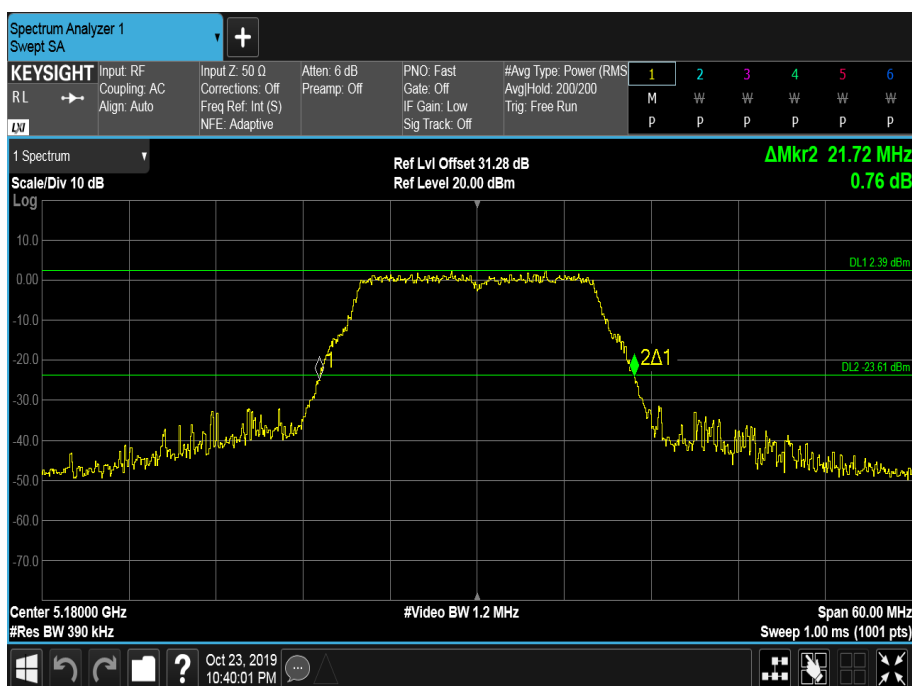


Figure 1 - 5180 MHz - 26 dB Emission Bandwidth

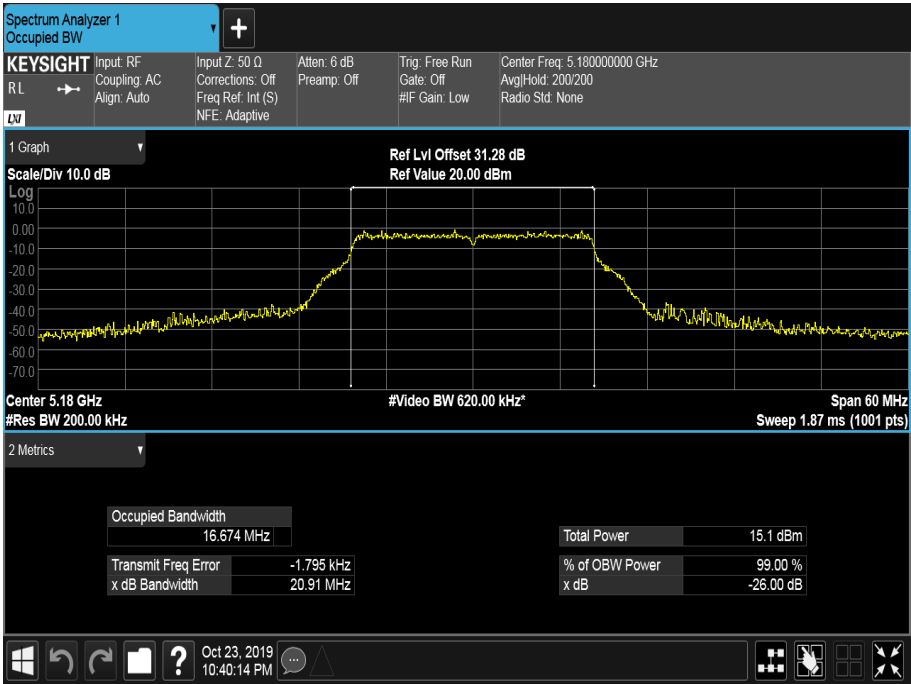


Figure 2 - 5180 MHz - 99% Occupied Bandwidth

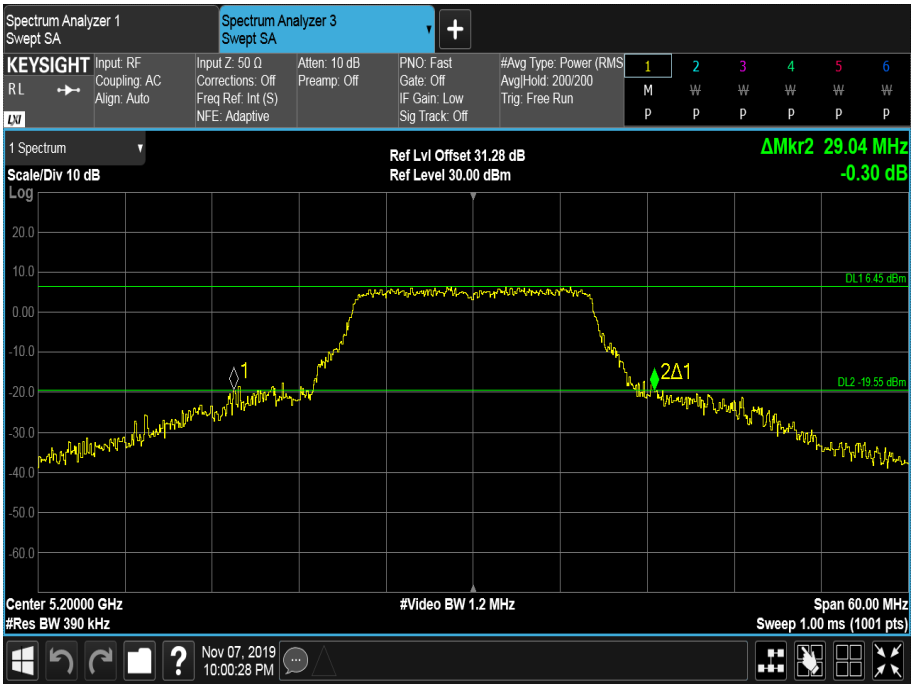


Figure 3 - 5200 MHz - 26 dB Emission Bandwidth

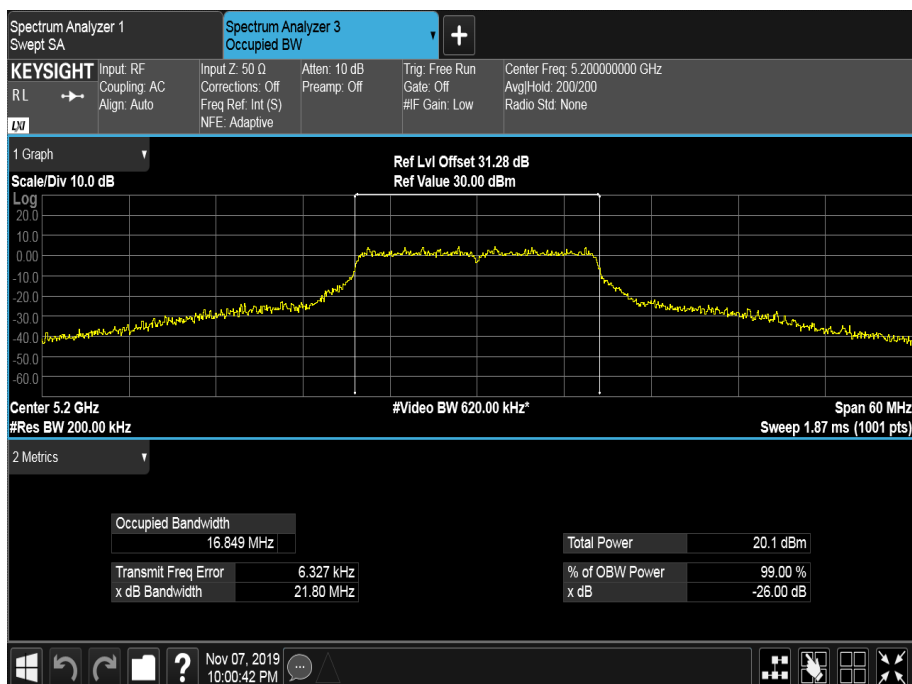


Figure 4 - 5200 MHz - 99% Occupied Bandwidth

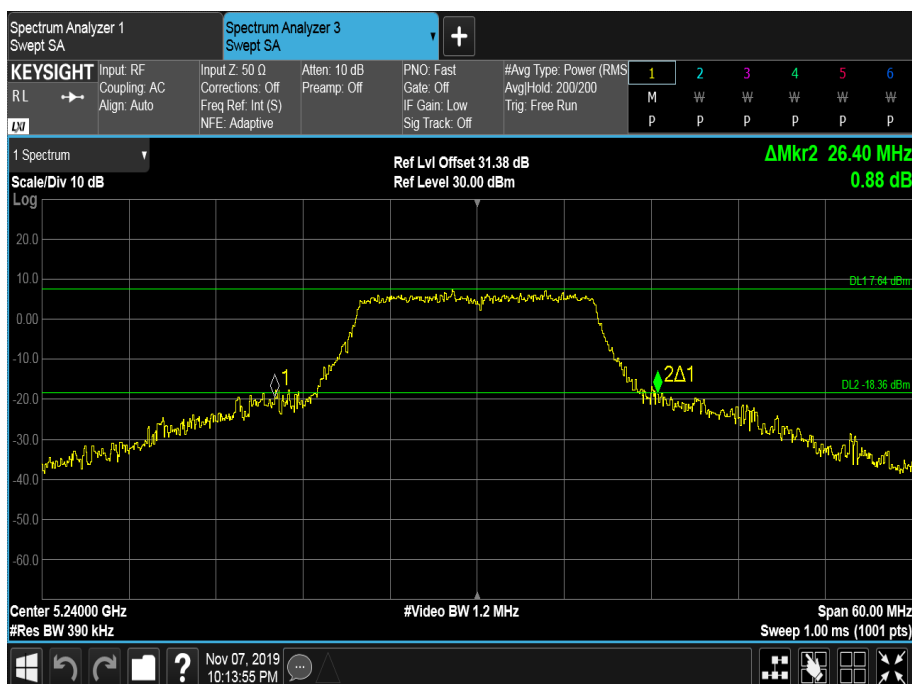


Figure 5 - 5240 MHz - 26 dB Emission Bandwidth

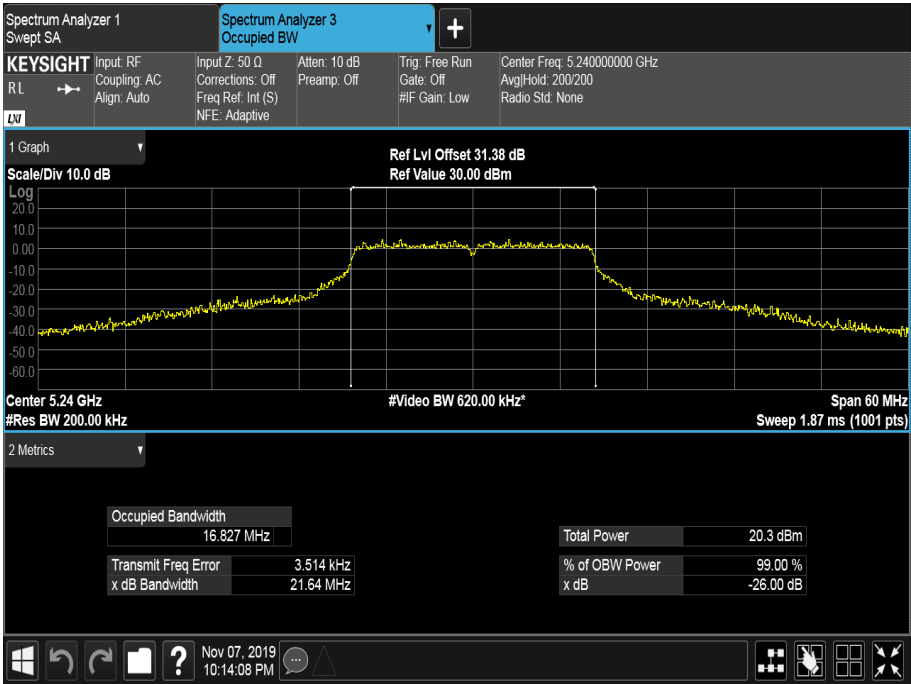


Figure 6 - 5240 MHz - 99% Occupied Bandwidth



Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
26 dB Bandwidth (MHz)	21.780	21.960	22.020
99% Bandwidth (MHz)	16.664	16.734	16.721

Table 275 - 802.11a / 6 Mbps / SISO / Core 2 / Country Code CA

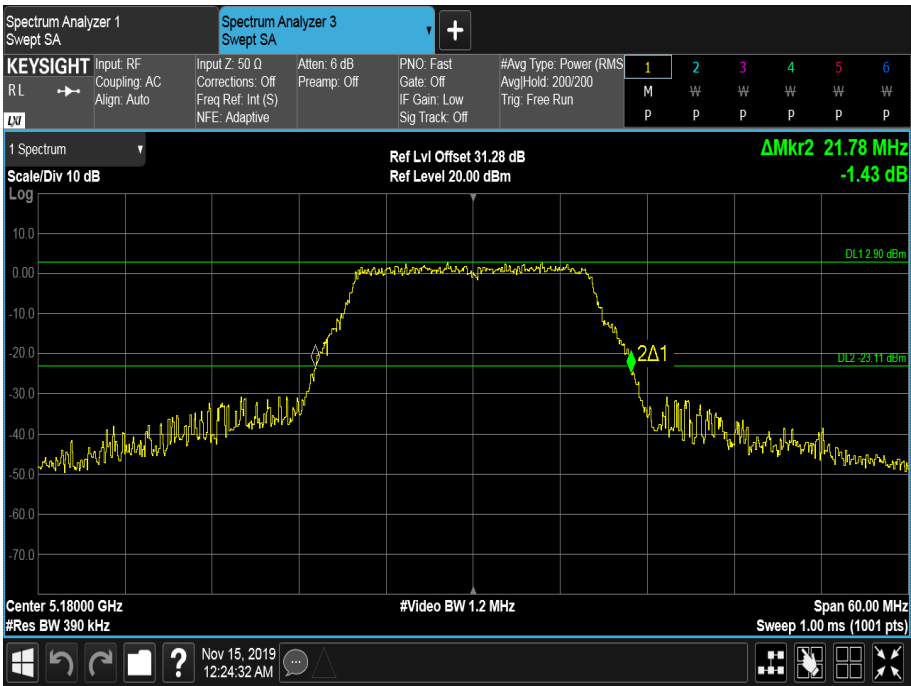


Figure 7 - 5180 MHz - 26 dB Emission Bandwidth

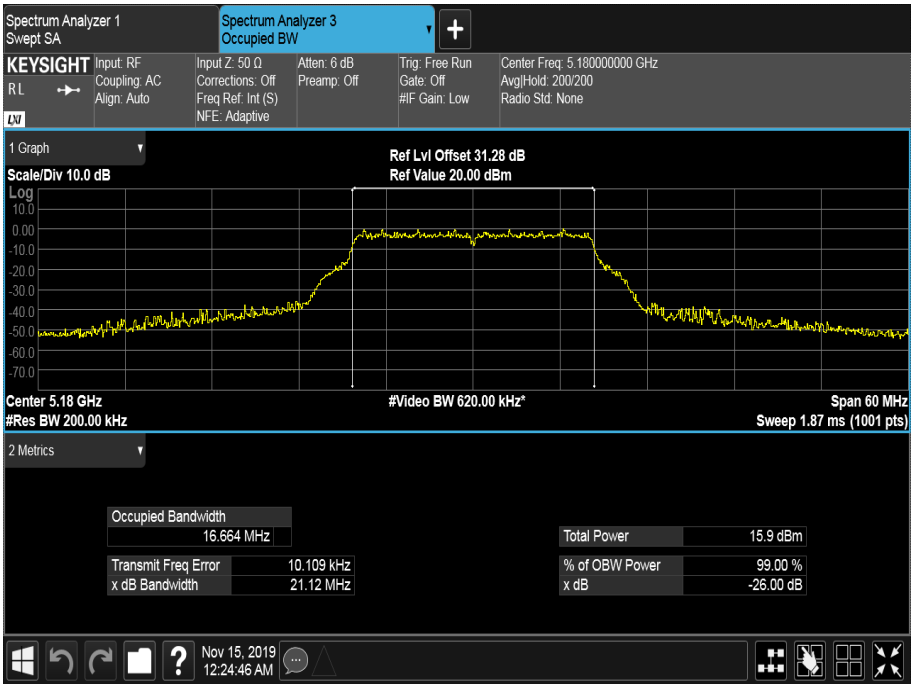


Figure 8 - 5180 MHz - 99% Occupied Bandwidth

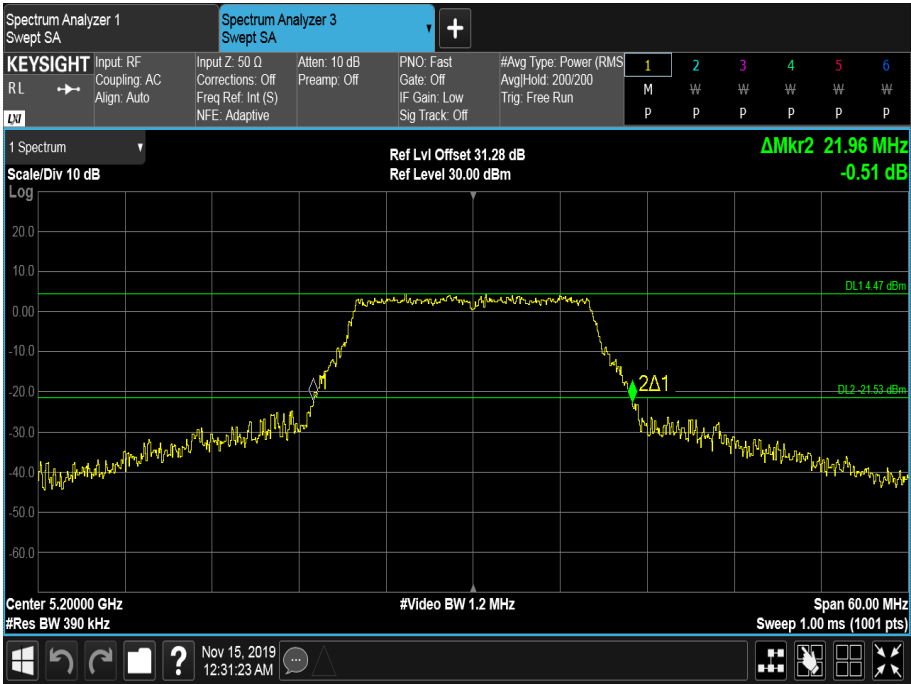


Figure 9 - 5200 MHz - 26 dB Emission Bandwidth

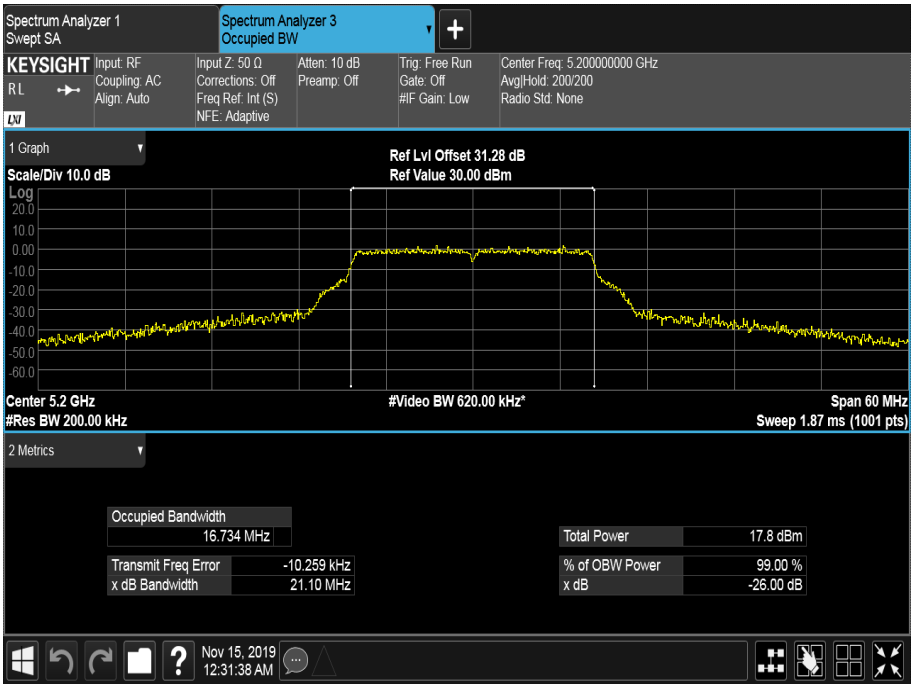


Figure 10 - 5200 MHz - 99% Occupied Bandwidth

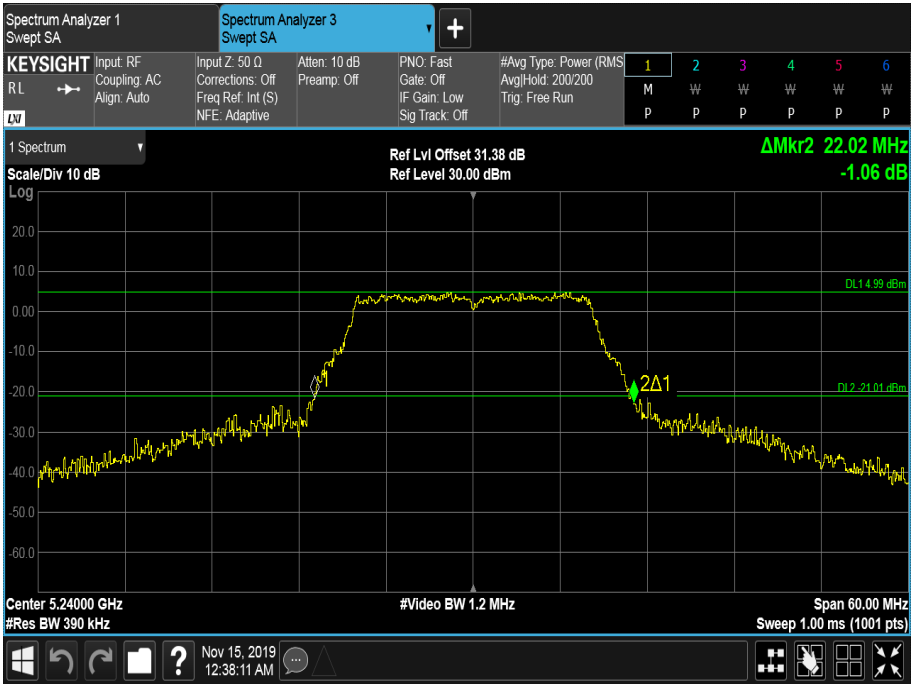


Figure 11 - 5240 MHz - 26 dB Emission Bandwidth

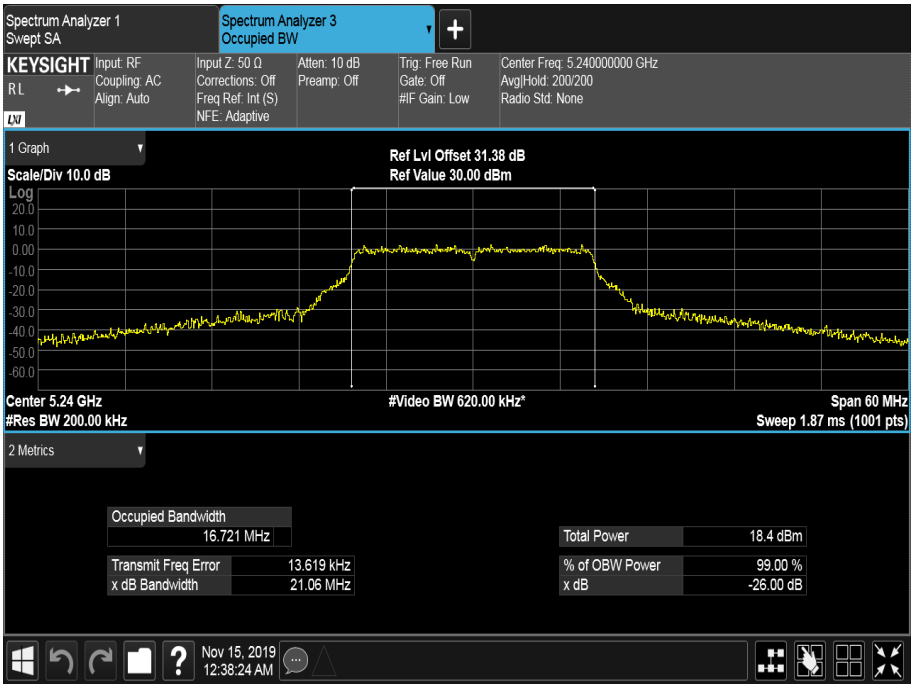


Figure 12 - 5240 MHz - 99% Occupied Bandwidth



Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
26 dB Bandwidth (MHz)	21.840	37.020	36.600
99% Bandwidth (MHz)	16.702	16.929	16.898

Table 276 - 802.11a / 6 Mbps / Aux Core / Country Code US

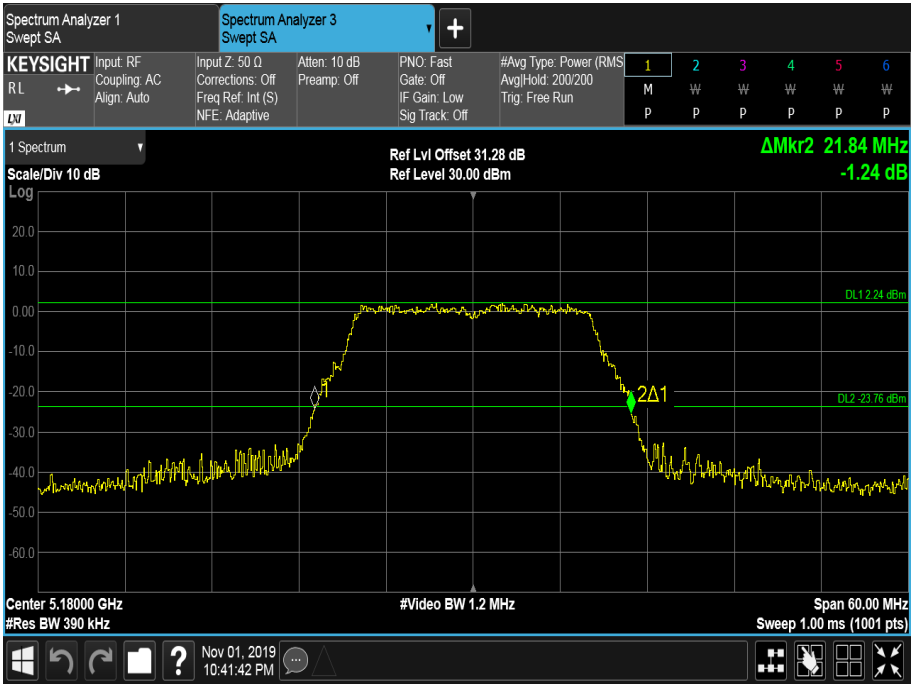


Figure 13 - 5180 MHz - 26 dB Emission Bandwidth

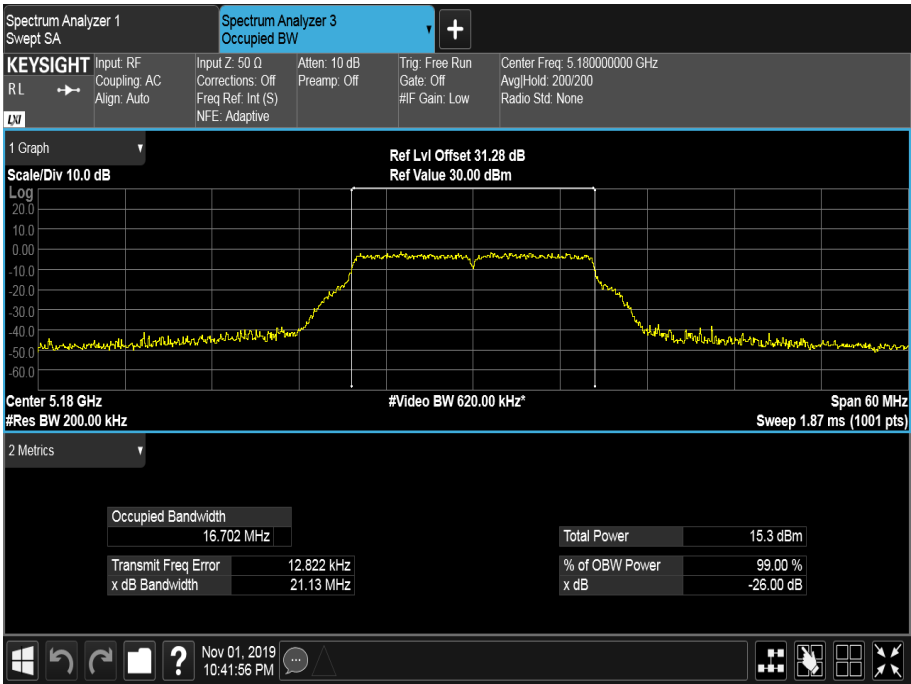


Figure 14 - 5180 MHz - 99% Occupied Bandwidth

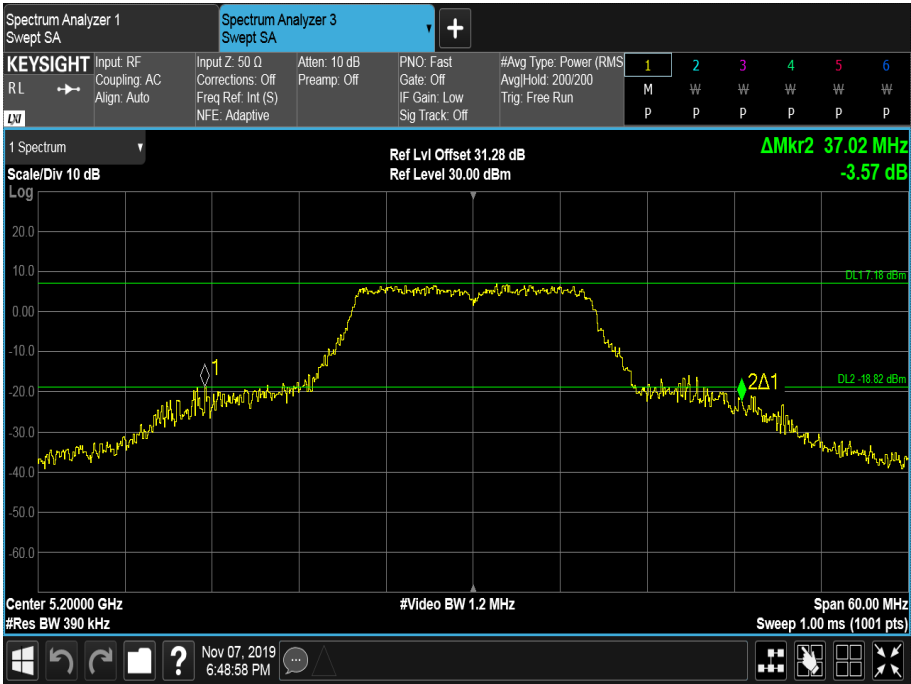


Figure 15 - 5200 MHz - 26 dB Emission Bandwidth

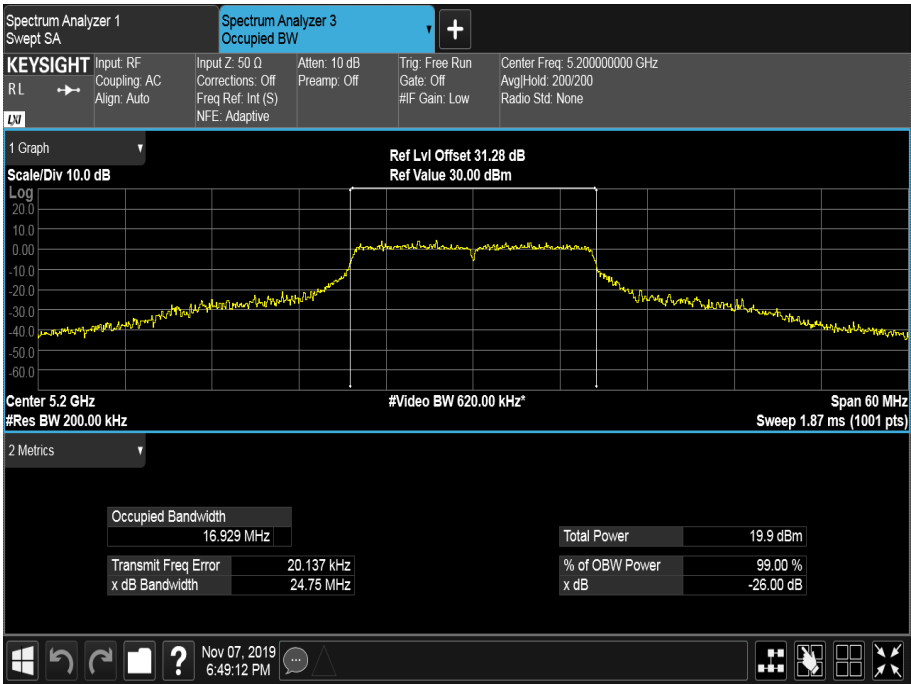


Figure 16 - 5200 MHz - 99% Occupied Bandwidth

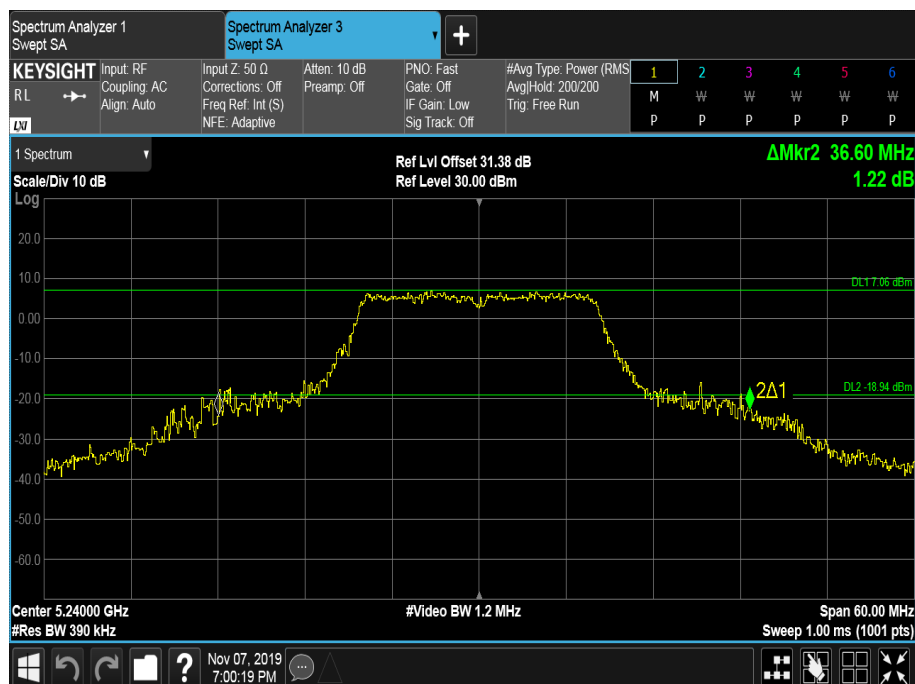


Figure 17 - 5240 MHz - 26 dB Emission Bandwidth

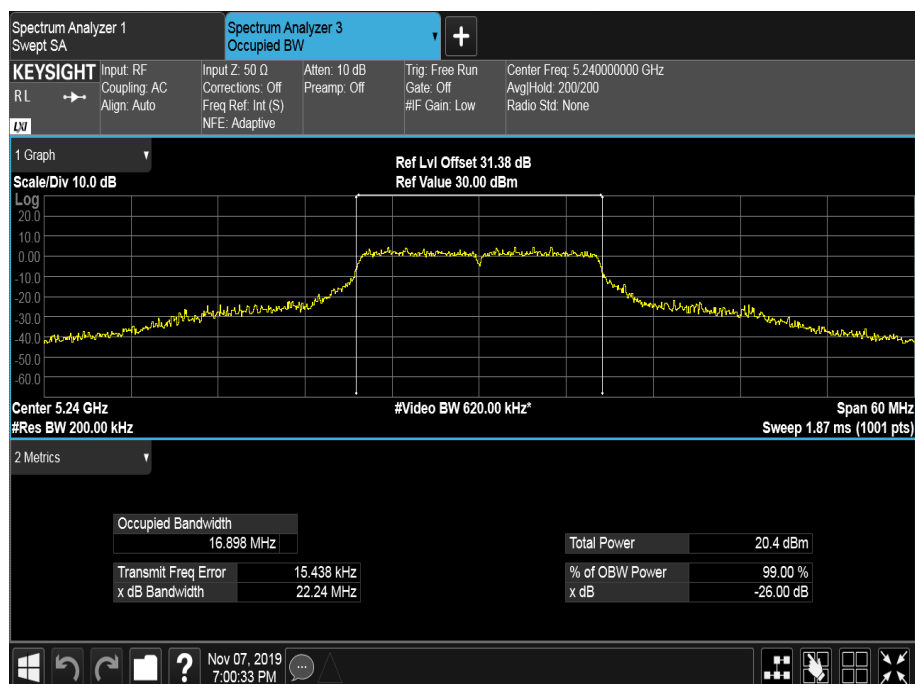


Figure 18 - 5240 MHz - 99% Occupied Bandwidth

Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
26 dB Bandwidth (MHz)	21.960	35.700	37.620
99% Bandwidth (MHz)	16.703	16.960	16.921

Table 277 - 802.11a / 6 Mbps / Aux Core / Country Code CA

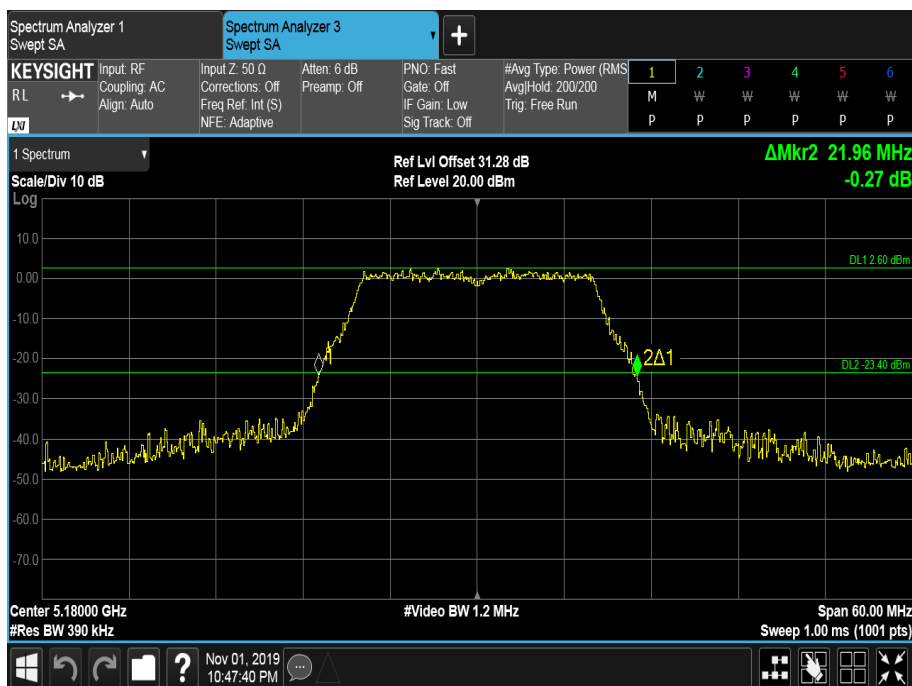


Figure 19 - 5180 MHz - 26 dB Emission Bandwidth

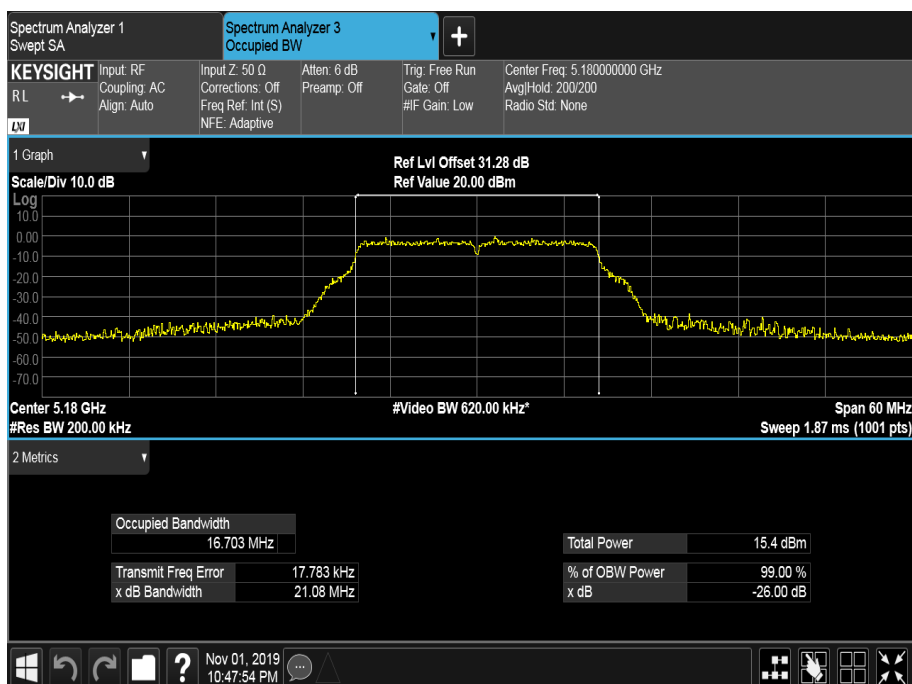


Figure 20 - 5180 MHz - 99% Occupied Bandwidth

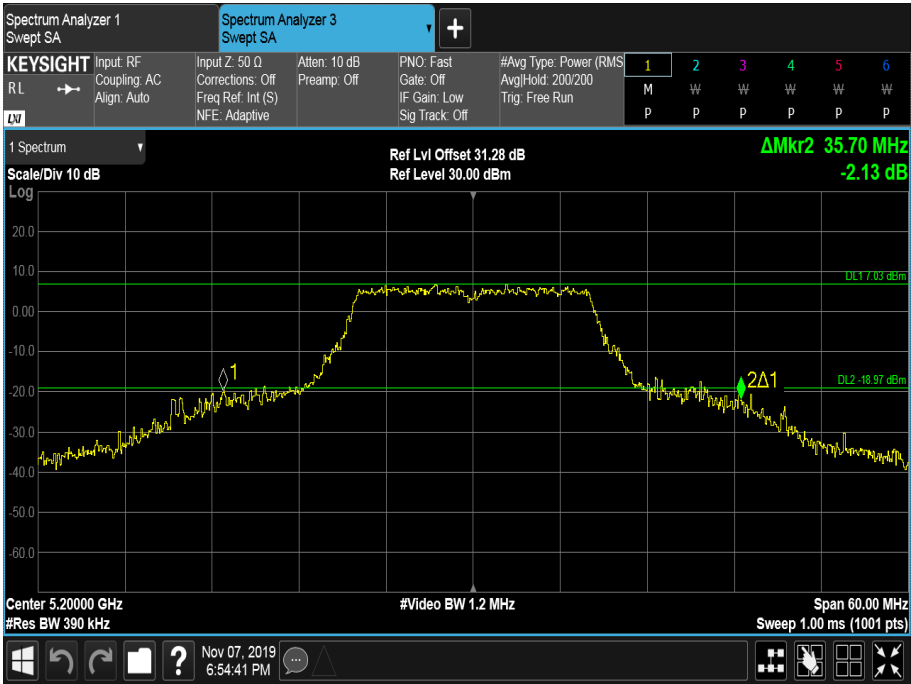


Figure 21 - 5200 MHz - 26 dB Emission Bandwidth

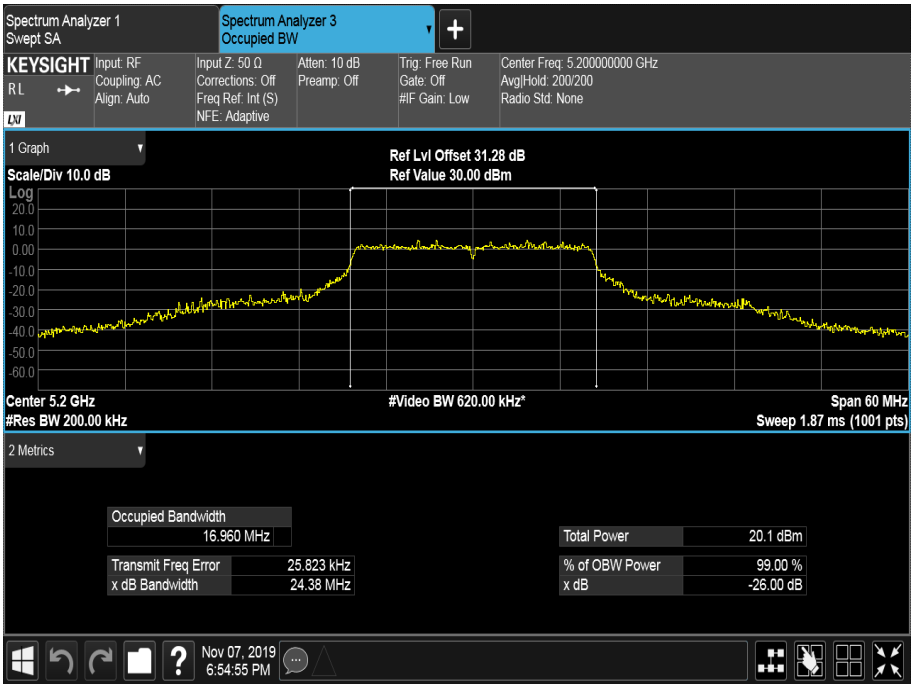


Figure 22 - 5200 MHz - 99% Occupied Bandwidth

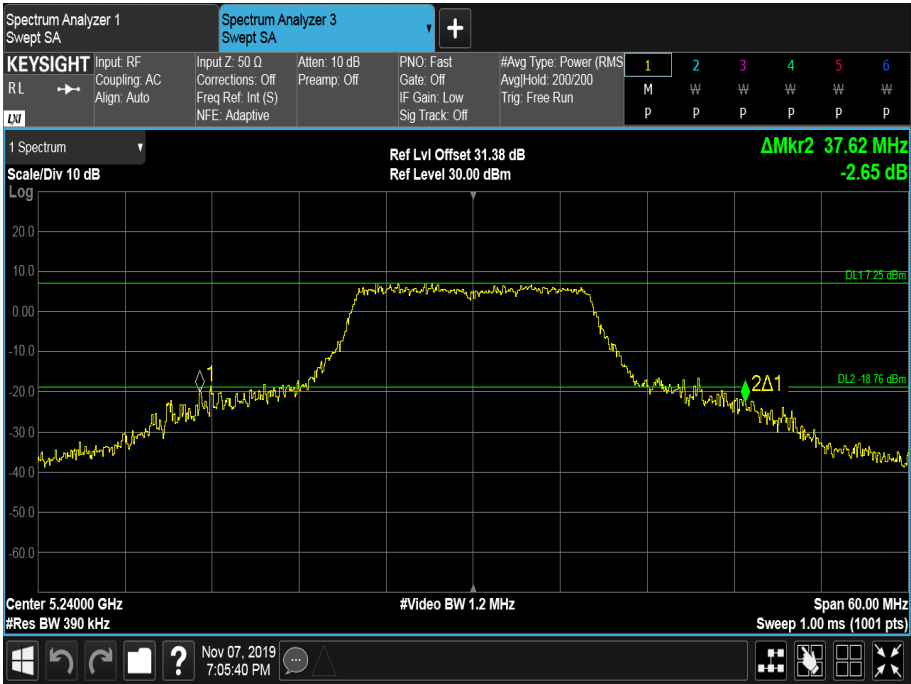


Figure 23 - 5240 MHz - 26 dB Emission Bandwidth

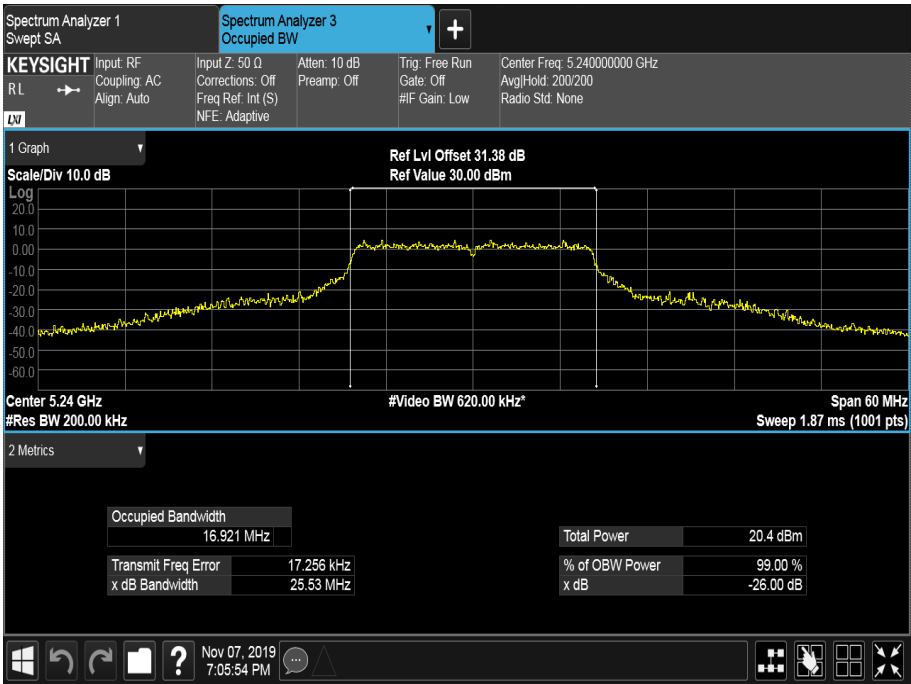


Figure 24 - 5240 MHz - 99% Occupied Bandwidth



Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
26 dB Bandwidth (MHz)	21.960	32.640	32.640
99% Bandwidth (MHz)	17.904	18.066	18.021

Table 278 - 802.11n / HT20 MCS0 / SISO / Core 2 / Country Code US

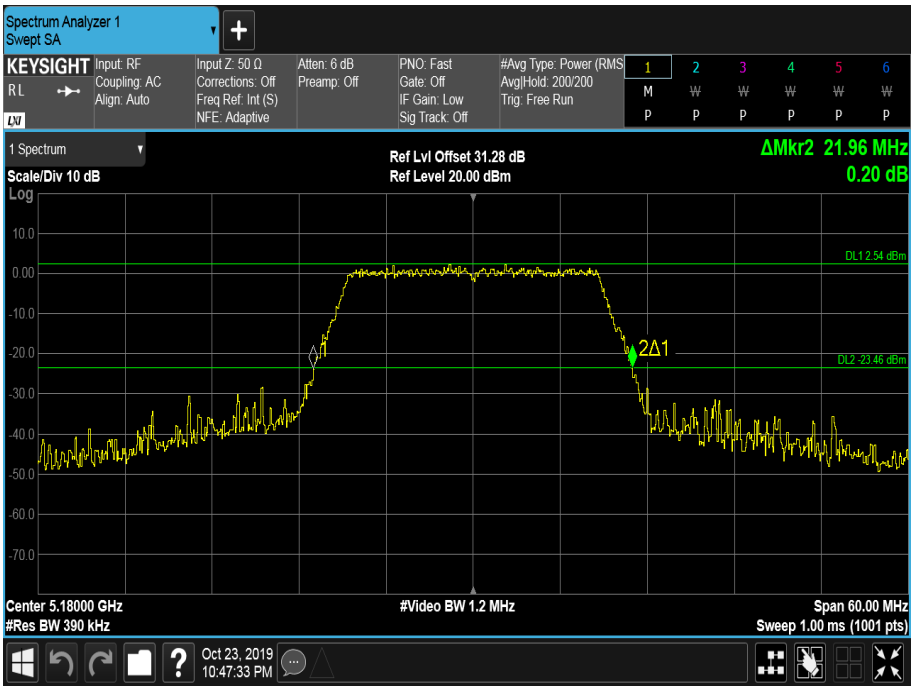


Figure 25 - 5180 MHz - 26 dB Emission Bandwidth

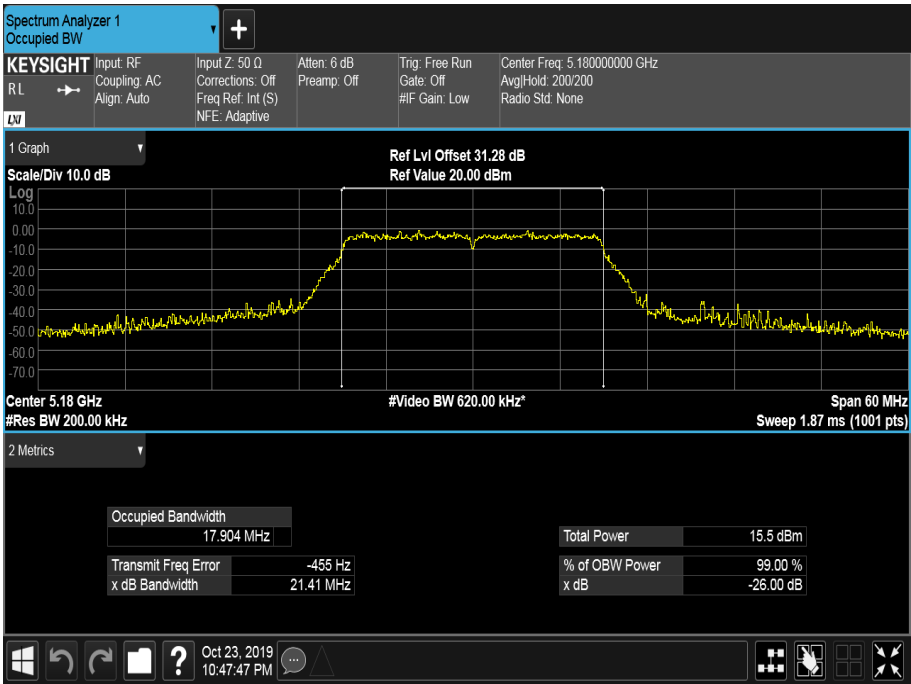


Figure 26 - 5180 MHz - 99% Occupied Bandwidth

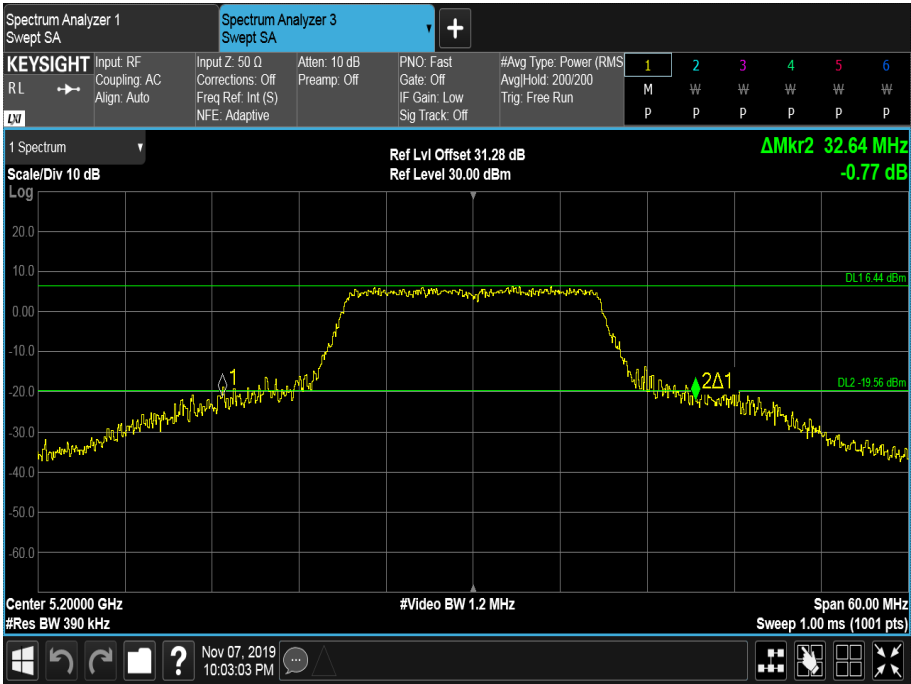


Figure 27 - 5200 MHz - 26 dB Emission Bandwidth

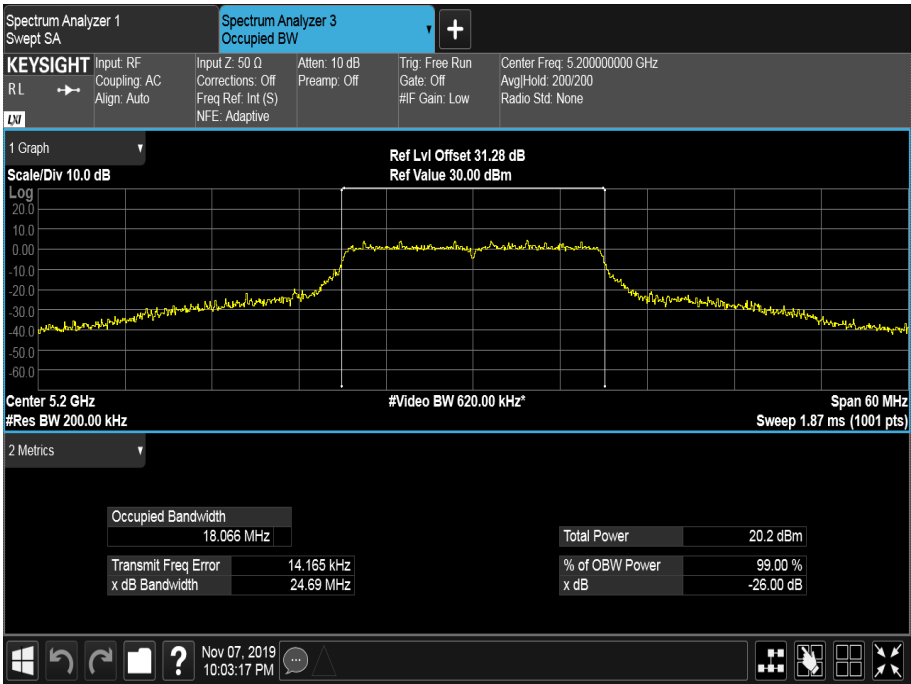


Figure 28 - 5200 MHz - 99% Occupied Bandwidth

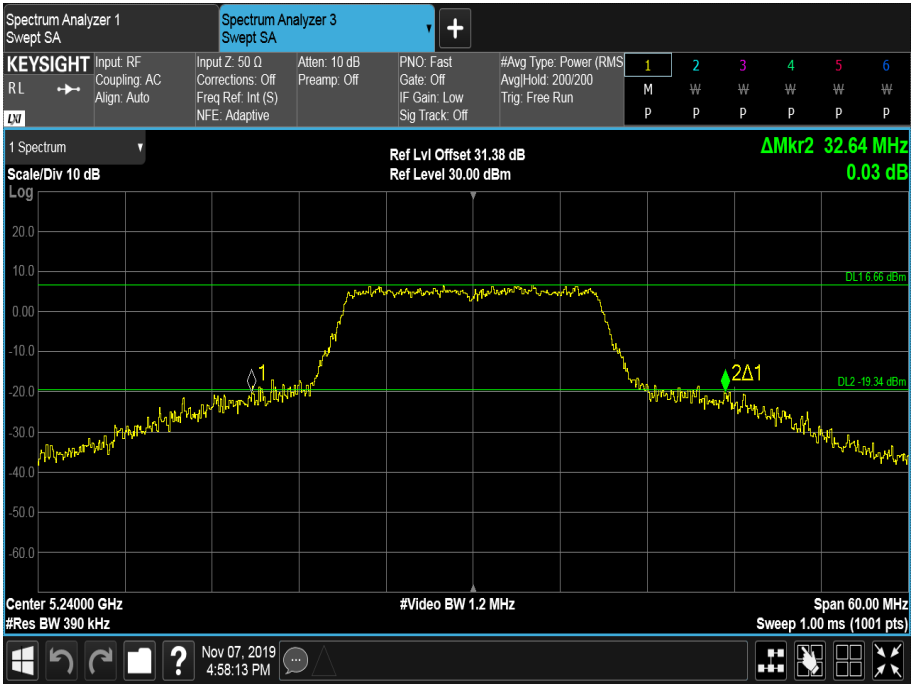


Figure 29 - 5240 MHz - 26 dB Emission Bandwidth

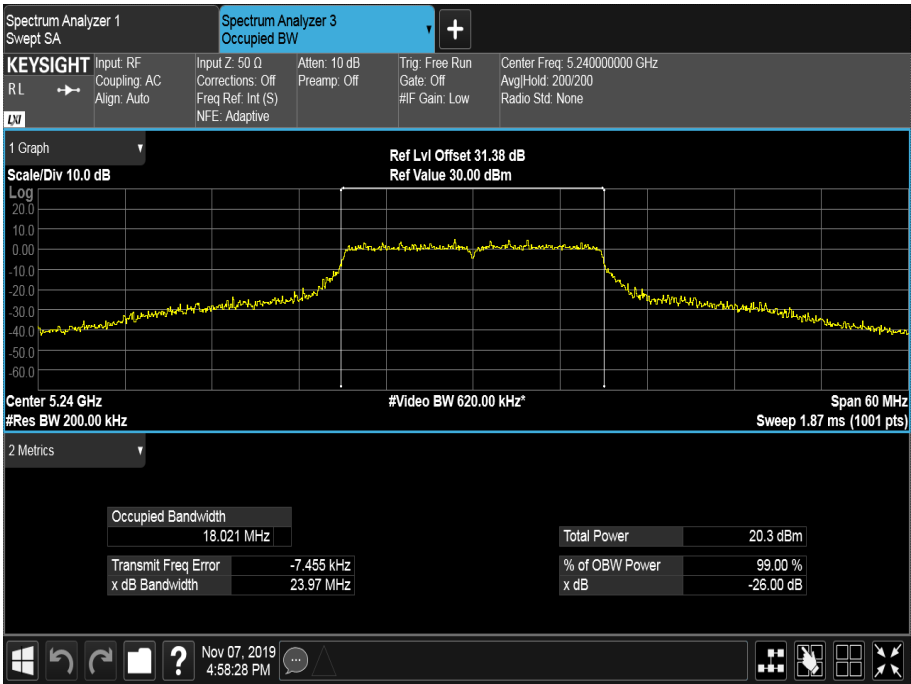


Figure 30 - 5240 MHz - 99% Occupied Bandwidth



Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
26 dB Bandwidth (MHz)	22.020	22.320	25.080
99% Bandwidth (MHz)	17.875	17.897	17.906

Table 279 - 802.11n / HT20 MCS0 / SISO / Core 2 / Country Code CA

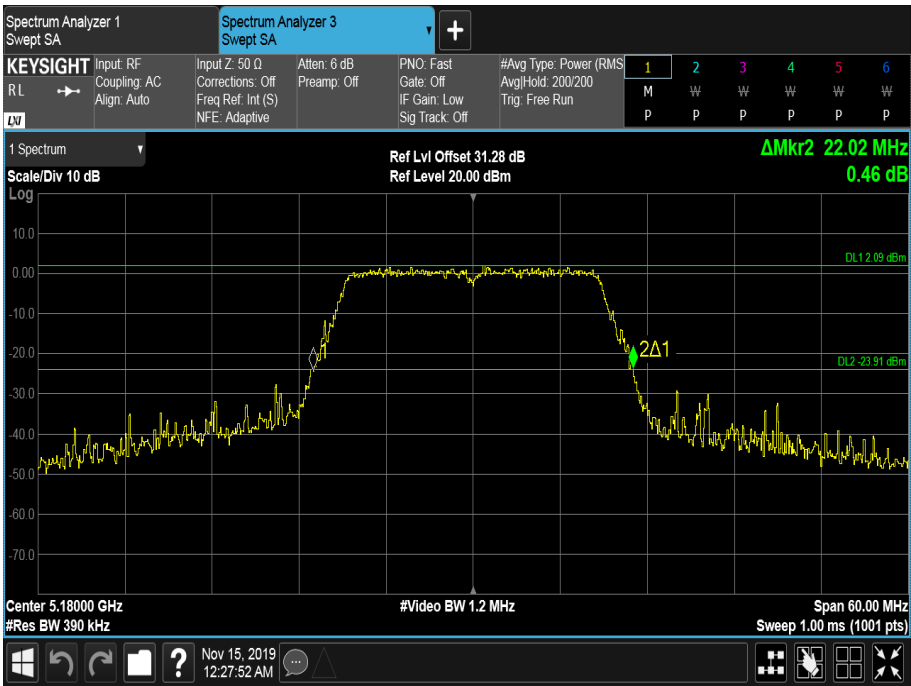


Figure 31 - 5180 MHz - 26 dB Emission Bandwidth

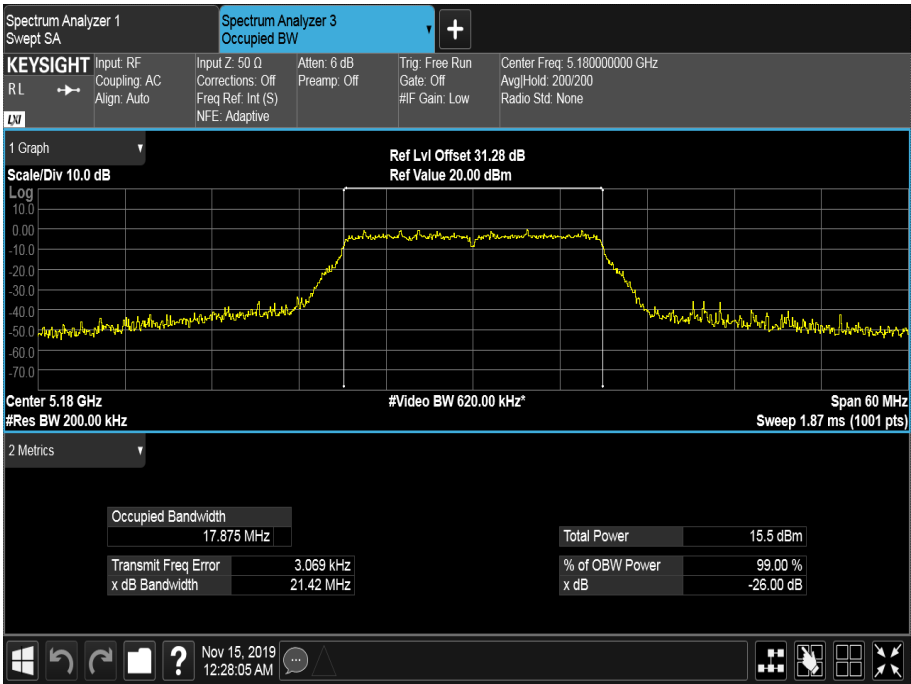


Figure 32 - 5180 MHz - 99% Occupied Bandwidth

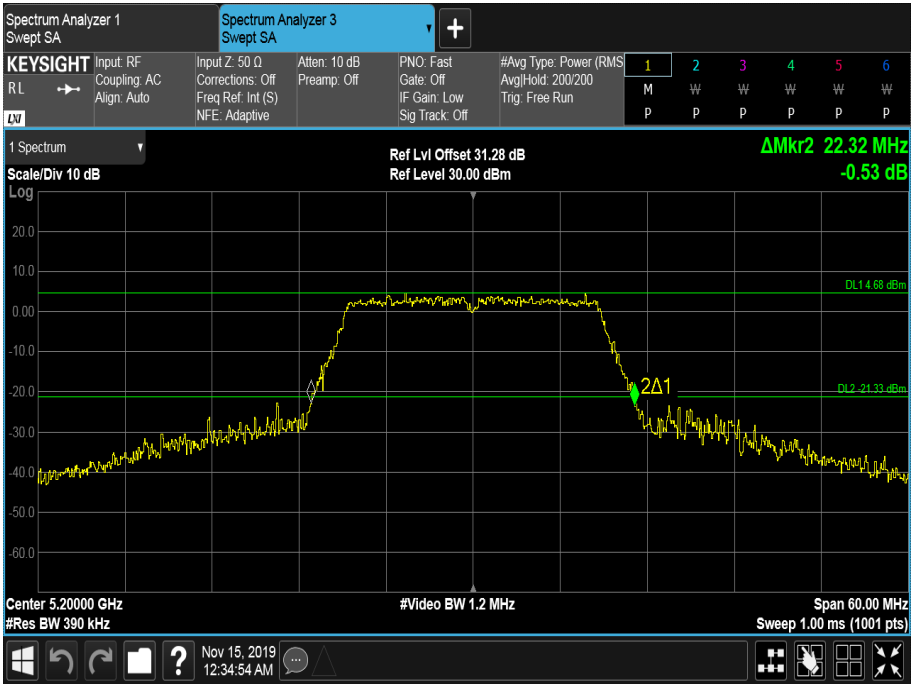


Figure 33 - 5200 MHz - 26 dB Emission Bandwidth

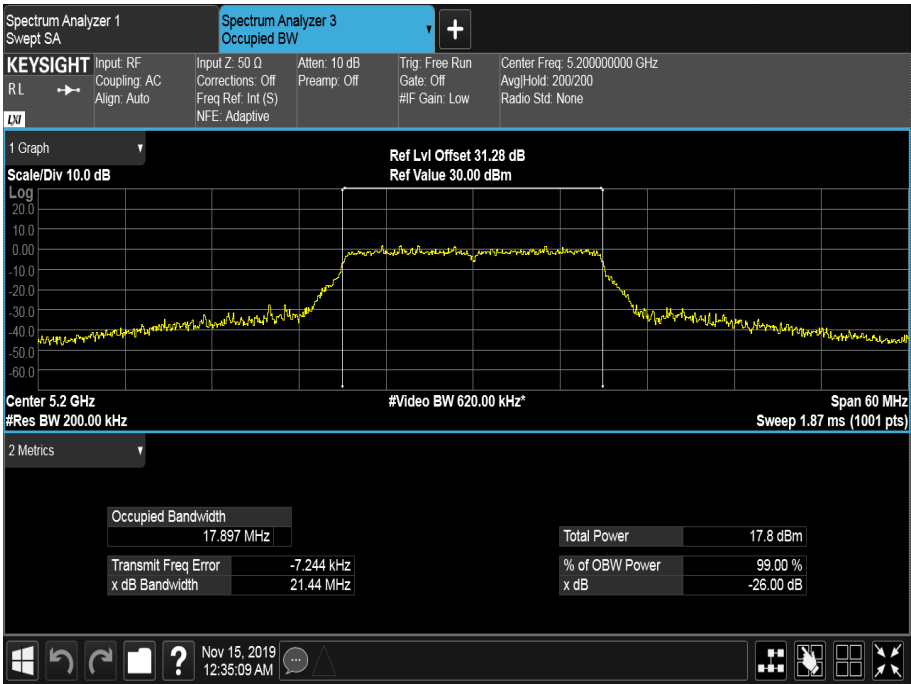


Figure 34 - 5200 MHz - 99% Occupied Bandwidth



Figure 35 - 5240 MHz - 26 dB Emission Bandwidth

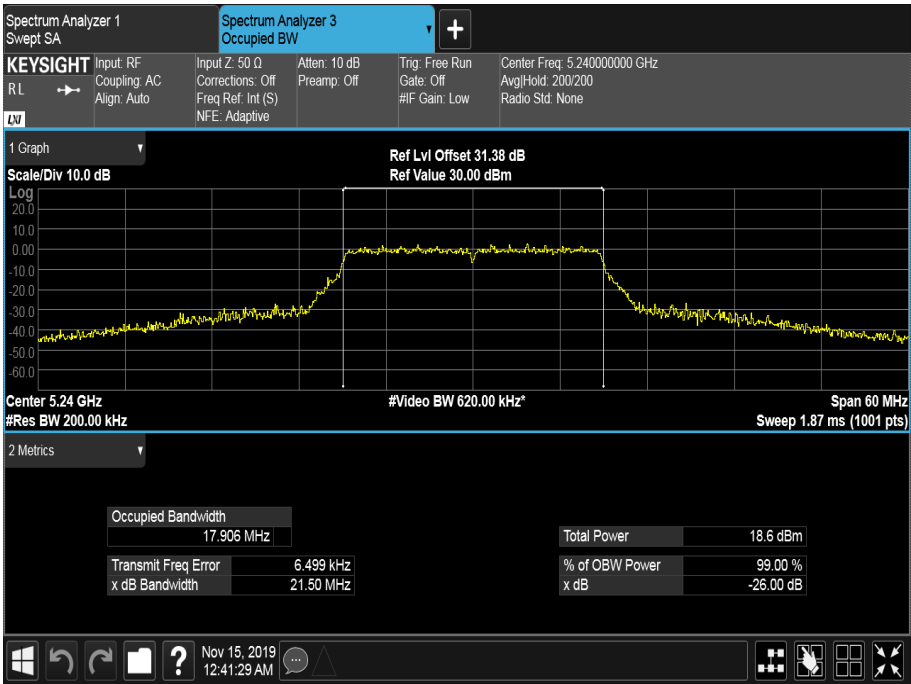


Figure 36 - 5240 MHz - 99% Occupied Bandwidth

Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
26 dB Bandwidth (MHz)	22.260	31.020	36.720
99% Bandwidth (MHz)	17.869	18.029	17.978

Table 280 - 802.11n / HT20 MCS0 / MIMO CDD / Cores 1+2 / Country Code US

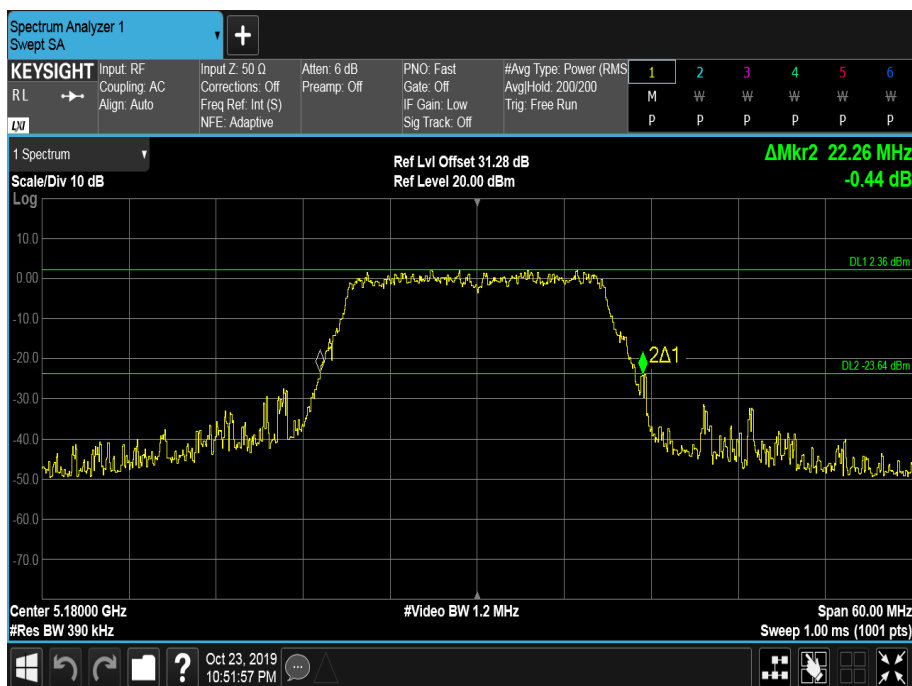


Figure 37 - 5180 MHz - 26 dB Emission Bandwidth

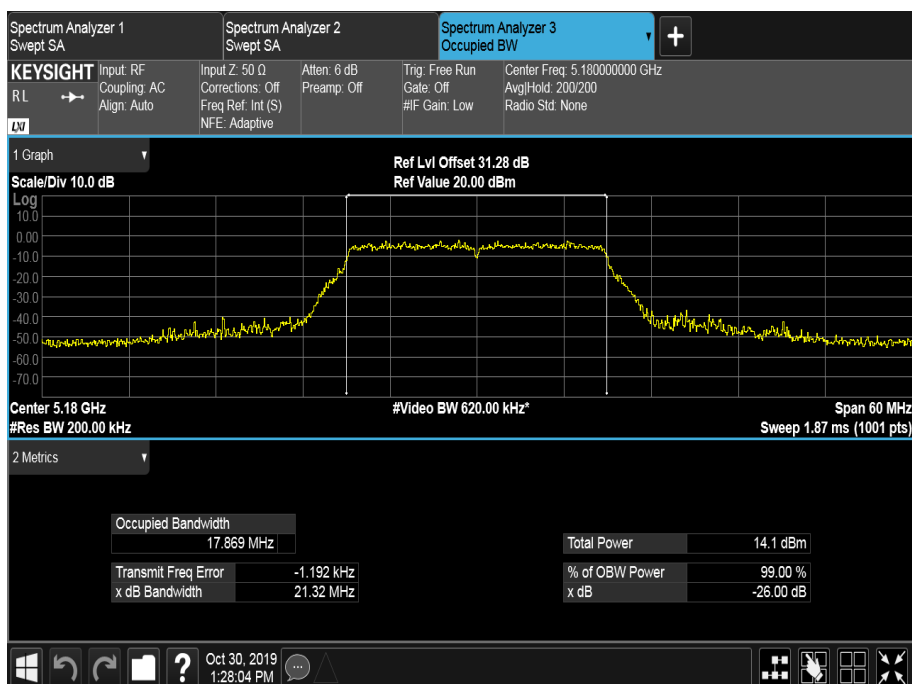


Figure 38 - 5180 MHz - 99% Occupied Bandwidth

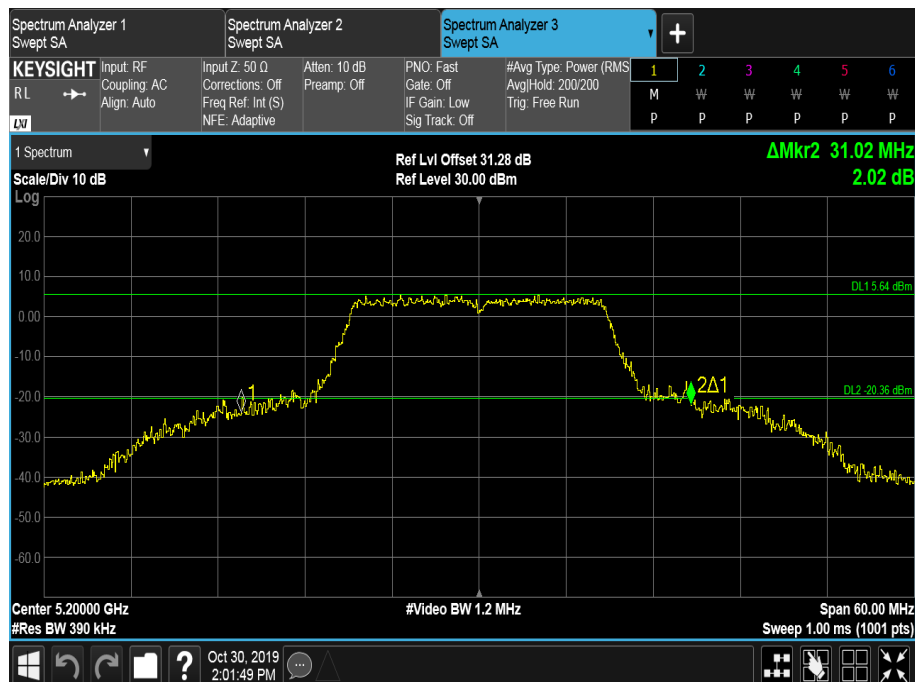


Figure 39 - 5200 MHz - 26 dB Emission Bandwidth

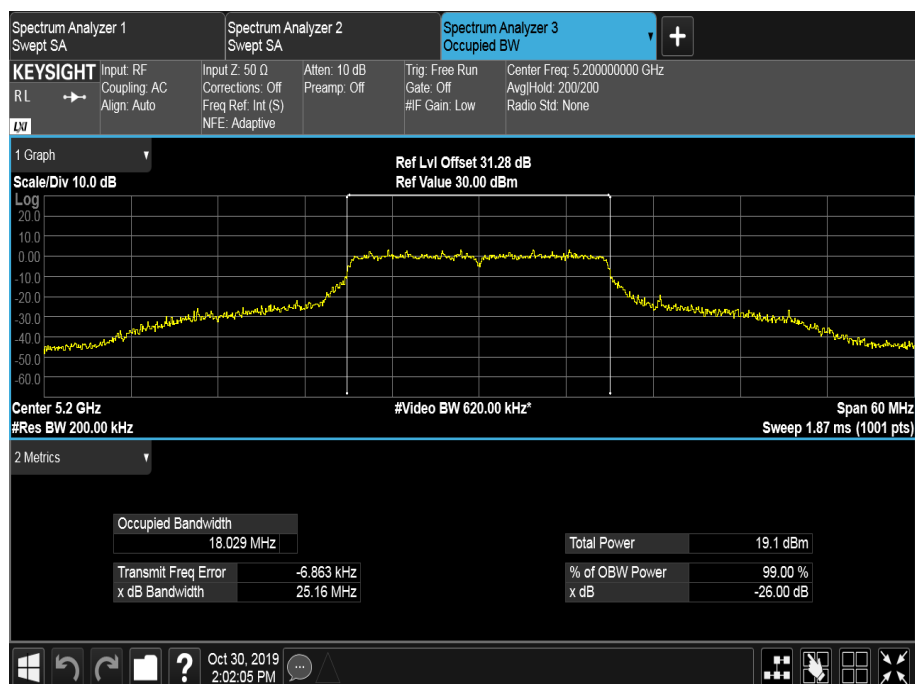


Figure 40 - 5200 MHz - 99% Occupied Bandwidth

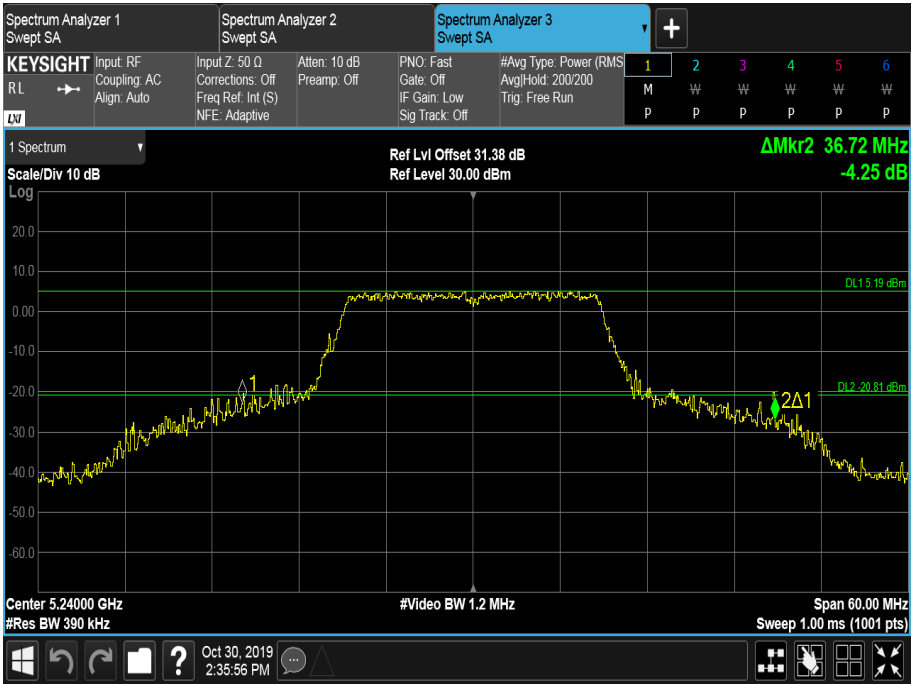


Figure 41 - 5240 MHz - 26 dB Emission Bandwidth

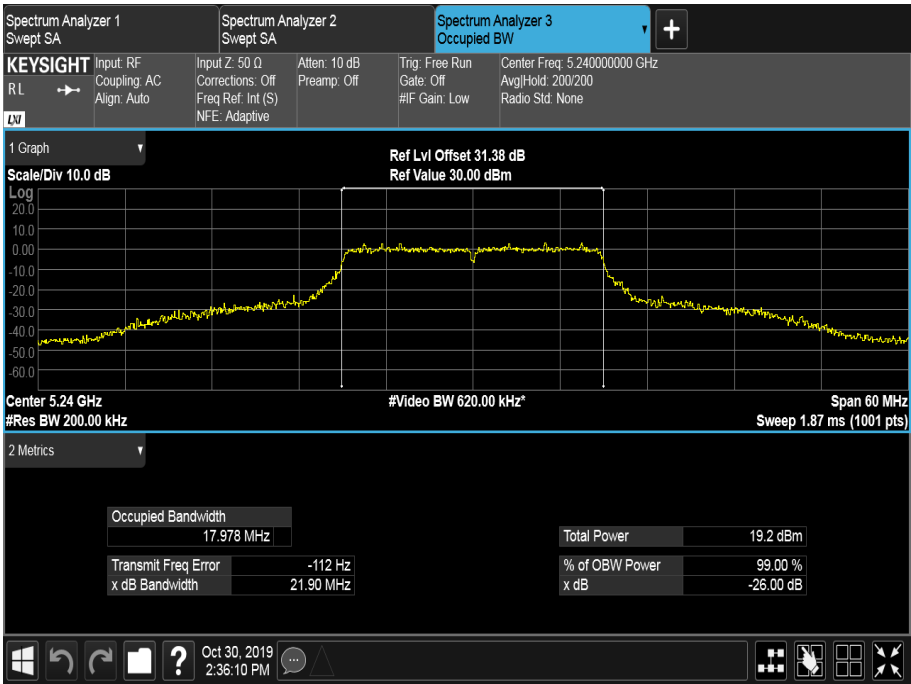


Figure 42 - 5240 MHz - 99% Occupied Bandwidth



Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
26 dB Bandwidth (MHz)	22.080	21.960	22.260
99% Bandwidth (MHz)	17.875	17.881	17.801

Table 281 - 802.11n / HT20 MCS0 / MIMO CDD / Cores 1+2 / Country Code CA

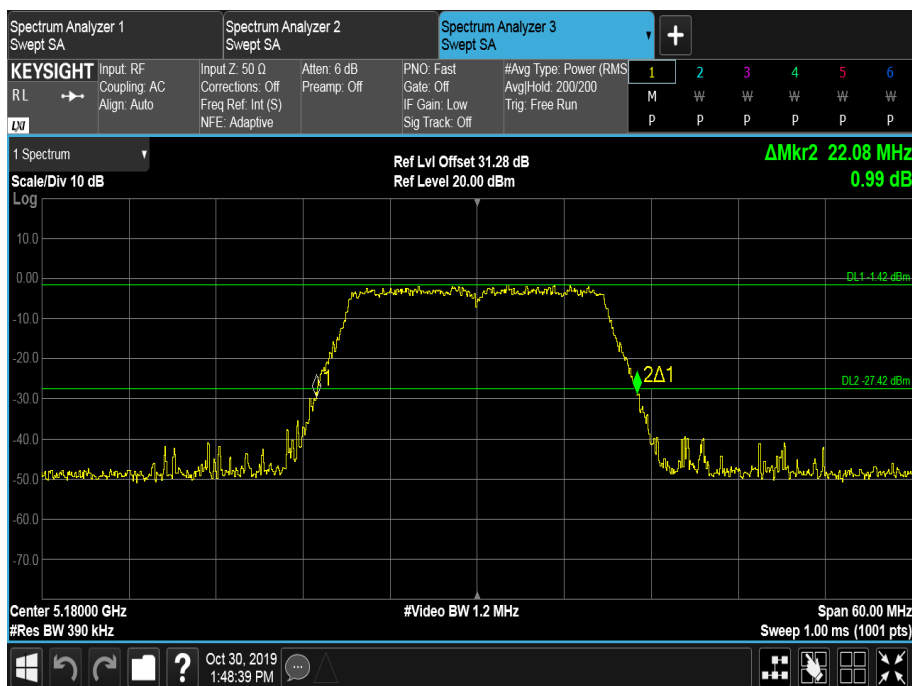


Figure 43 - 5180 MHz - 26 dB Emission Bandwidth

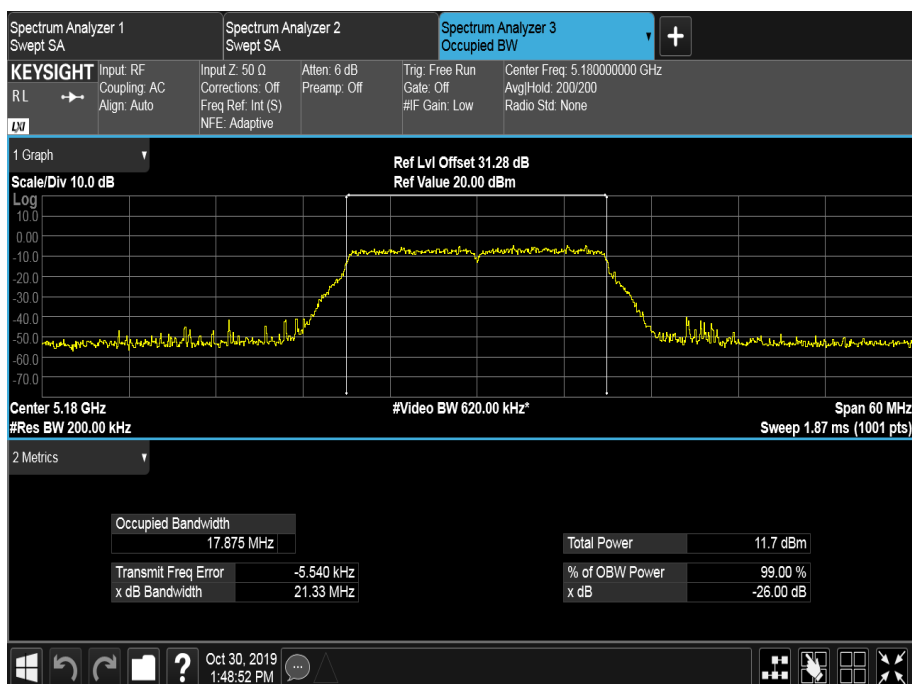


Figure 44 - 5180 MHz - 99% Occupied Bandwidth

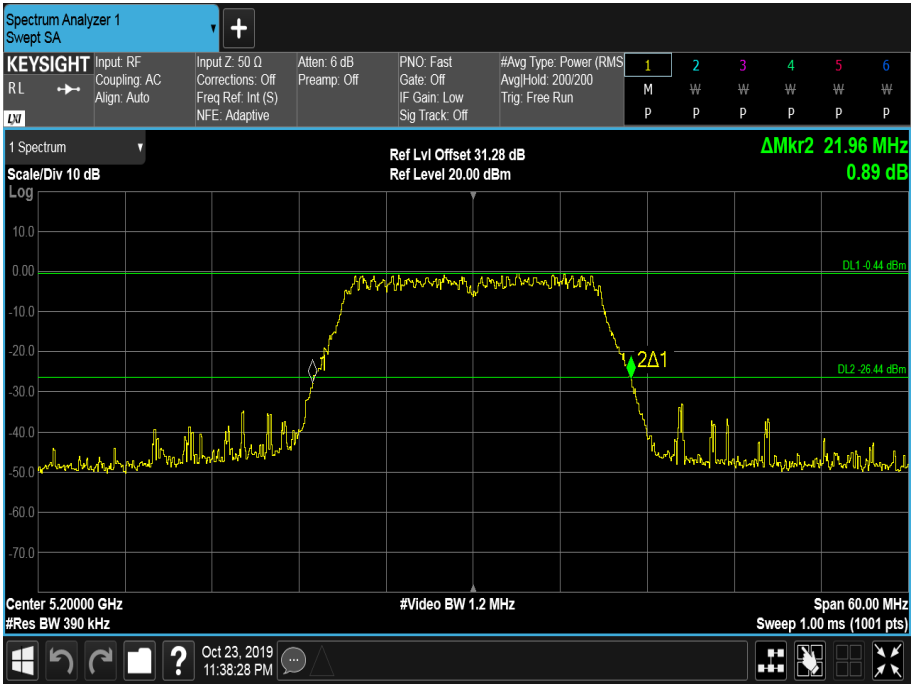


Figure 45 - 5200 MHz - 26 dB Emission Bandwidth

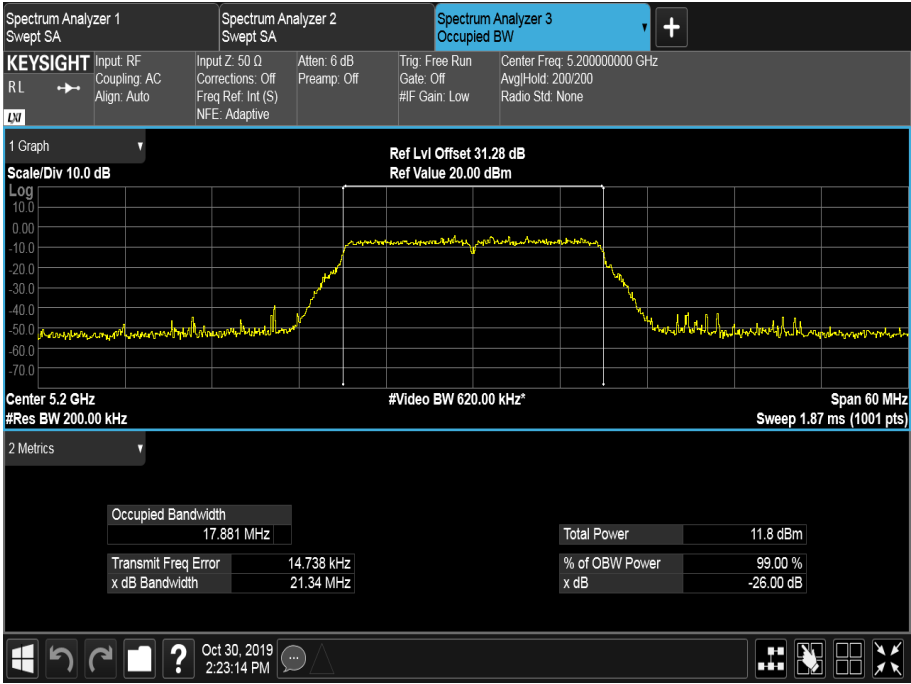


Figure 46 - 5200 MHz - 99% Occupied Bandwidth

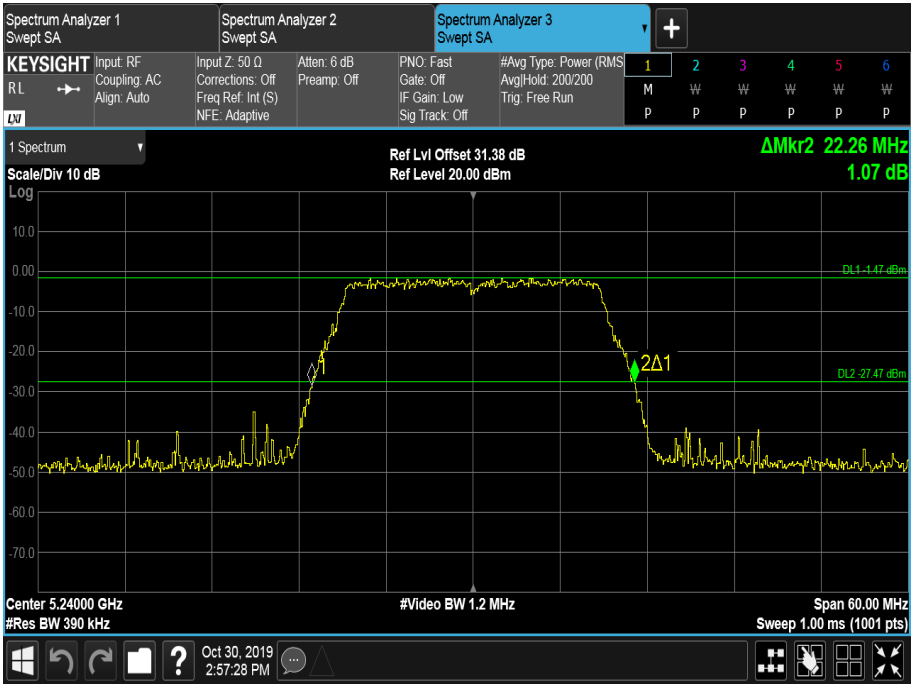


Figure 47 - 5240 MHz - 26 dB Emission Bandwidth

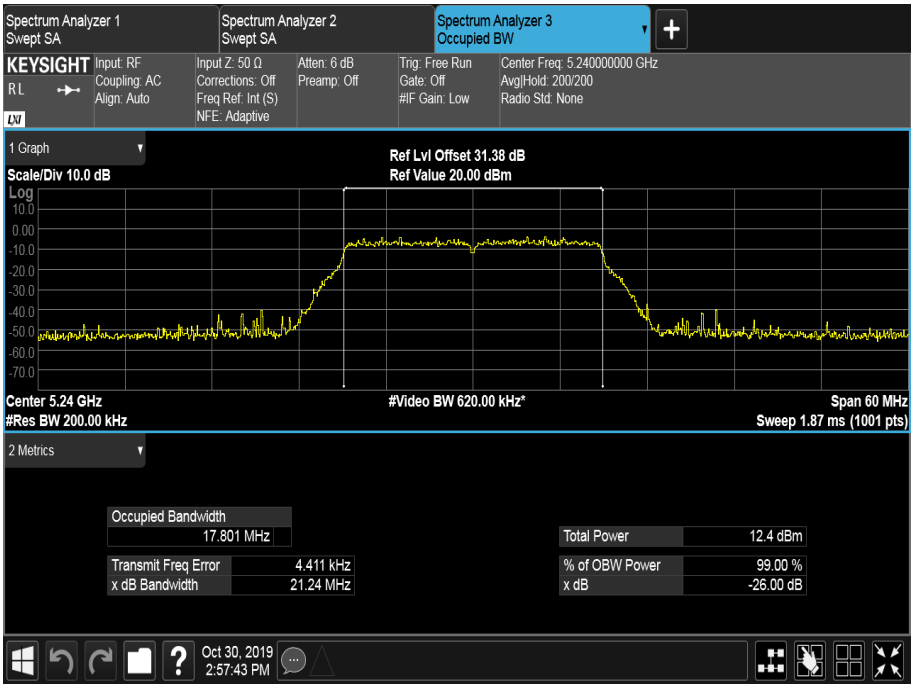


Figure 48 - 5240 MHz - 99% Occupied Bandwidth

Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
26 dB Bandwidth (MHz)	22.020	40.500	33.840
99% Bandwidth (MHz)	17.818	18.190	18.107

Table 282 - 802.11n / HT20 MCS8 / MIMO SDM / Cores 1+2 / Country Code US

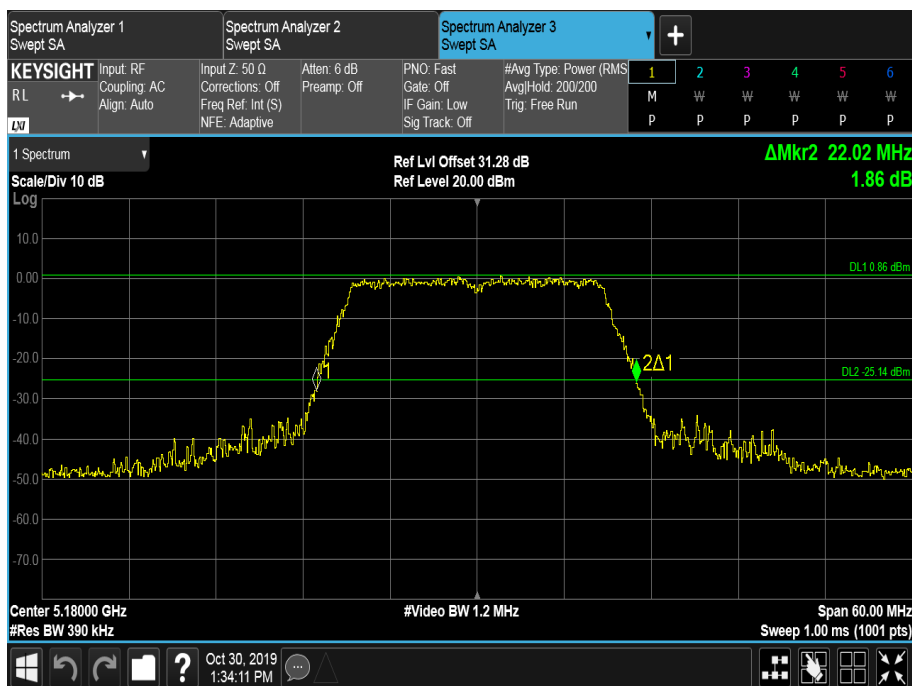


Figure 49 - 5180 MHz - 26 dB Emission Bandwidth

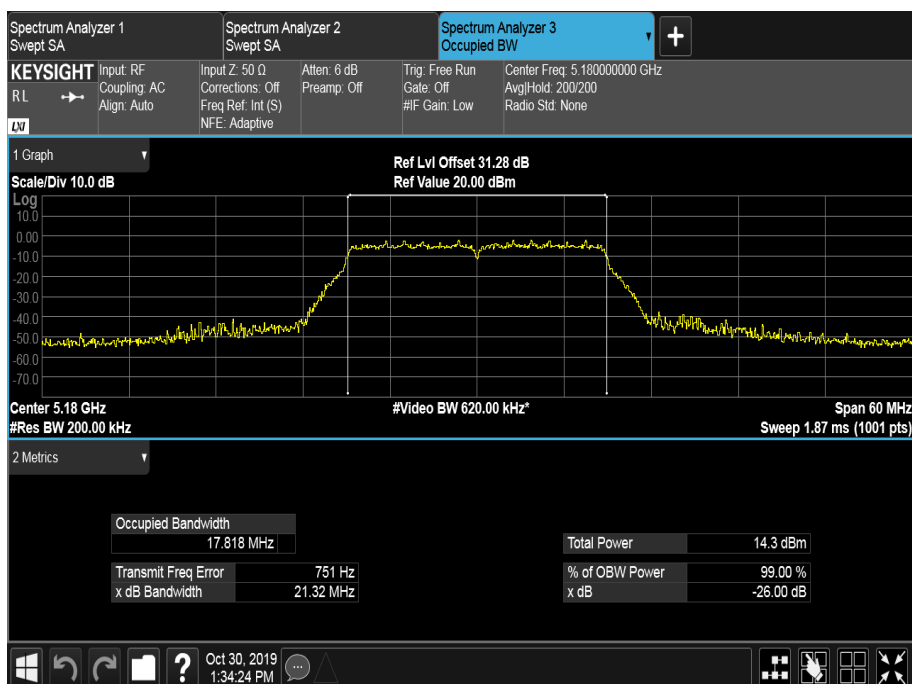


Figure 50 - 5180 MHz - 99% Occupied Bandwidth

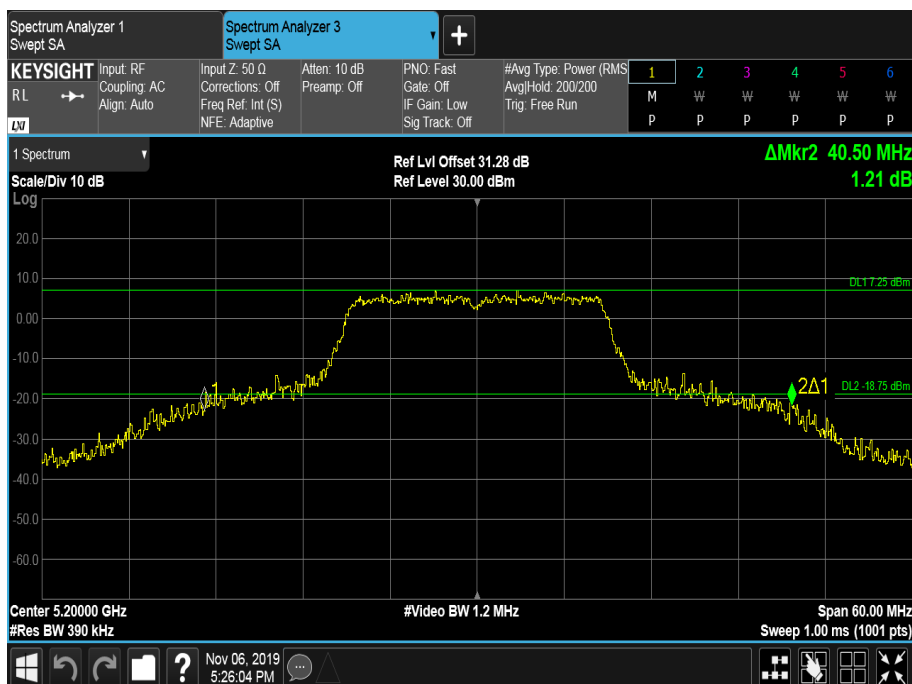


Figure 51 - 5200 MHz - 26 dB Emission Bandwidth

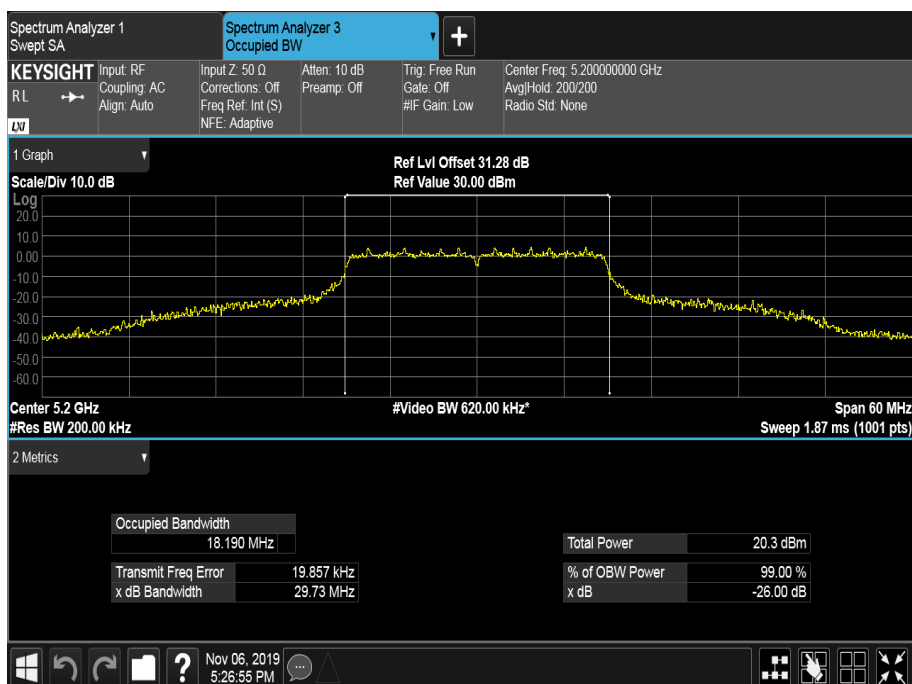


Figure 52 - 5200 MHz - 99% Occupied Bandwidth

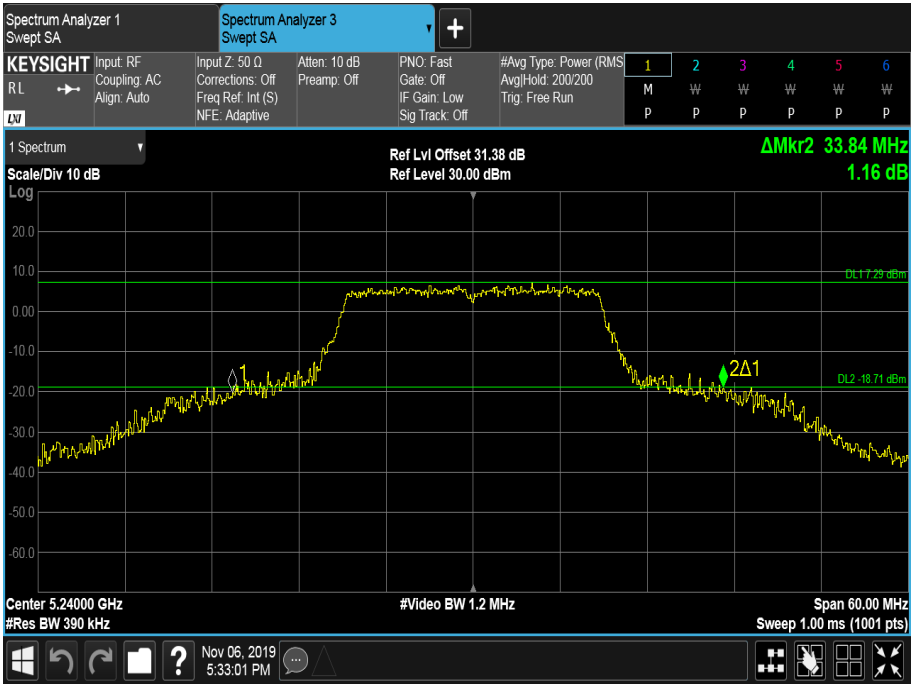


Figure 53 - 5240 MHz - 26 dB Emission Bandwidth

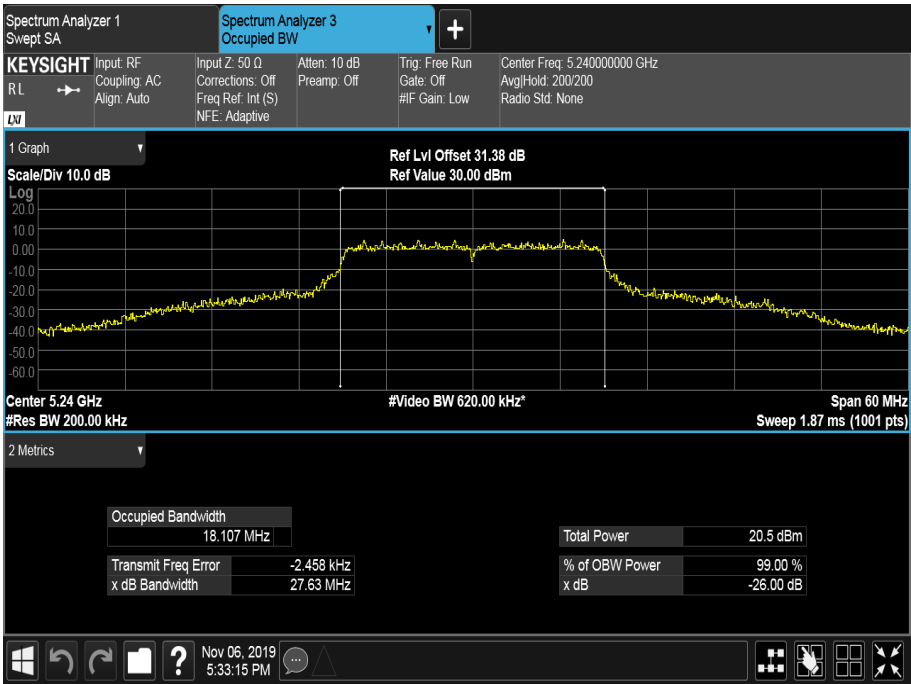


Figure 54 - 5240 MHz - 99% Occupied Bandwidth



Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
26 dB Bandwidth (MHz)	22.200	22.260	22.080
99% Bandwidth (MHz)	17.829	17.825	17.831

Table 283 - 802.11n / HT20 MCS8 / MIMO SDM / Cores 1+2 / Country Code CA

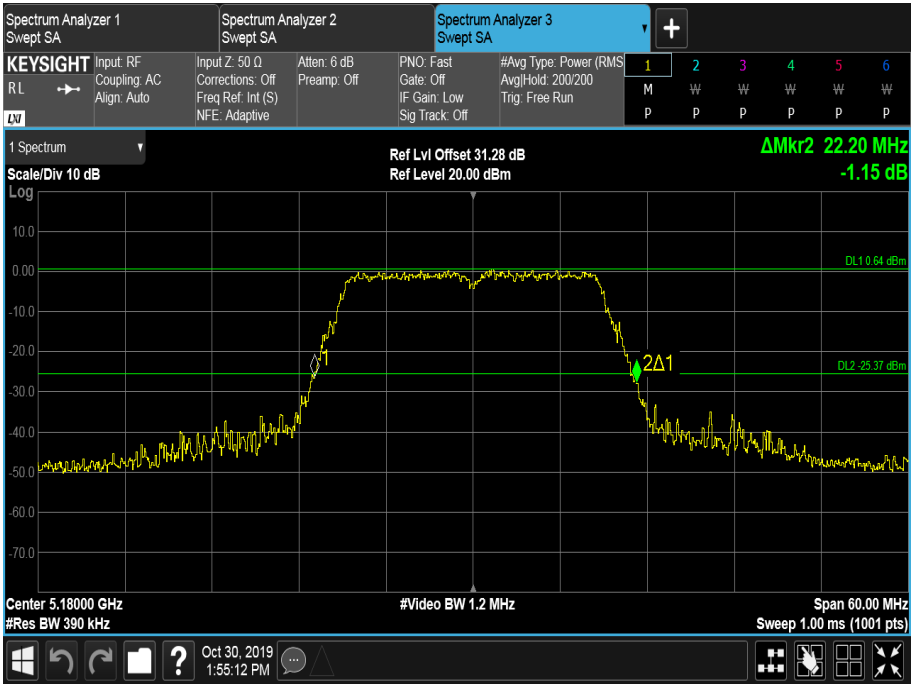


Figure 55 - 5180 MHz - 26 dB Emission Bandwidth

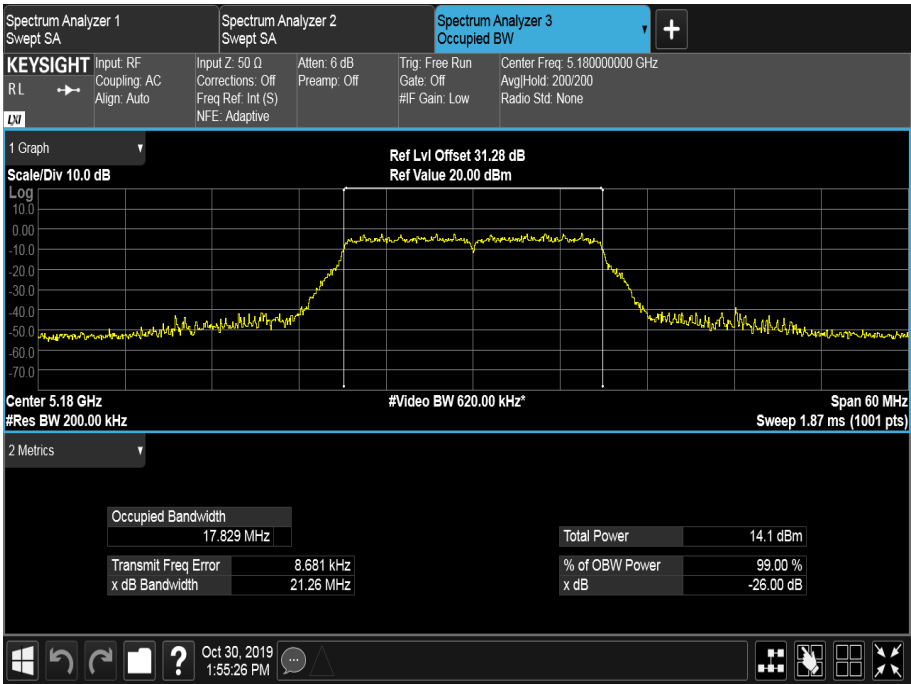


Figure 56 - 5180 MHz - 99% Occupied Bandwidth

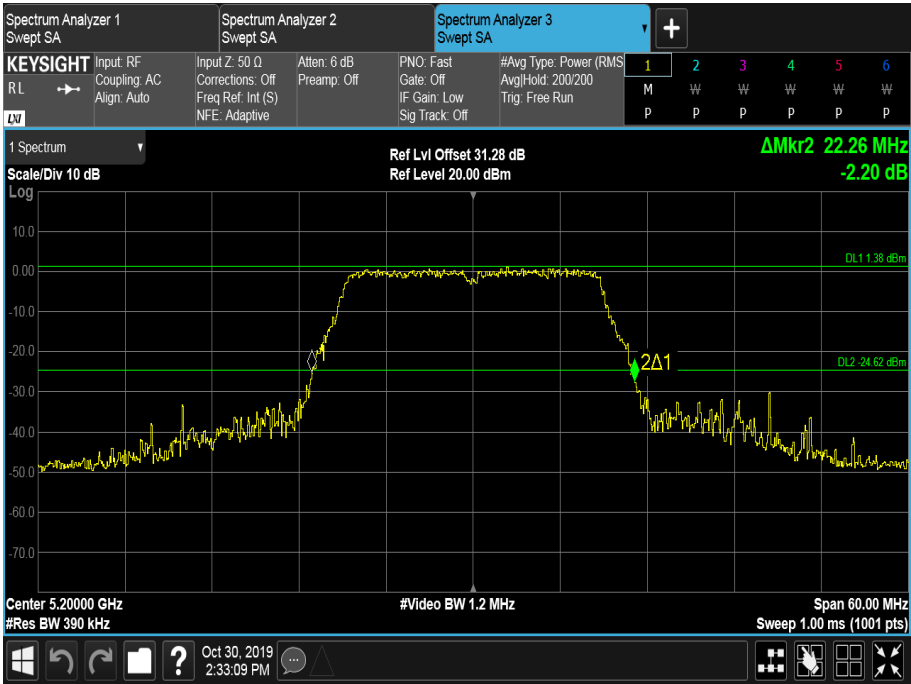


Figure 57 - 5200 MHz - 26 dB Emission Bandwidth

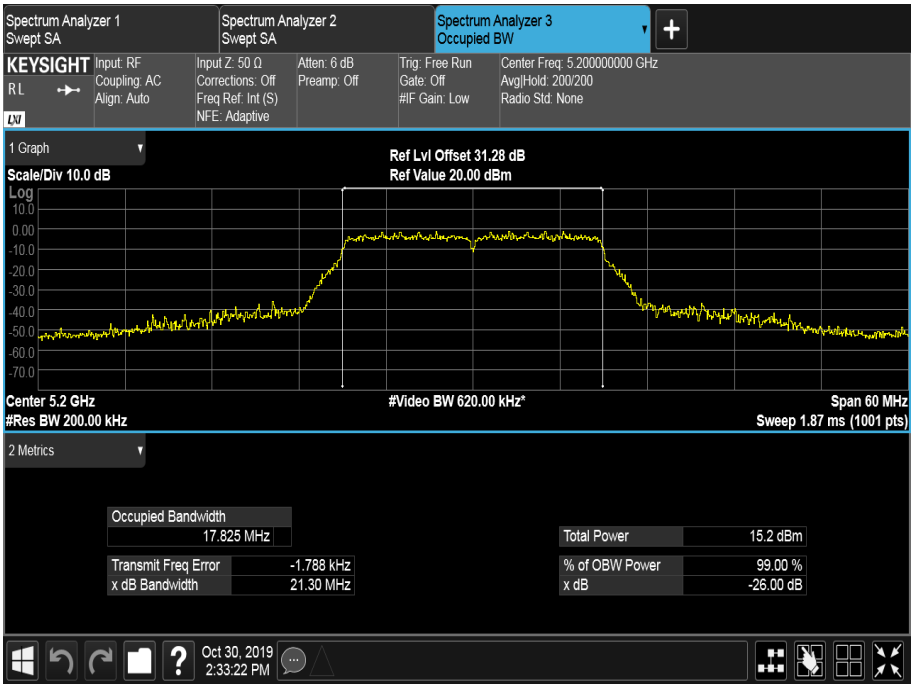


Figure 58 - 5200 MHz - 99% Occupied Bandwidth

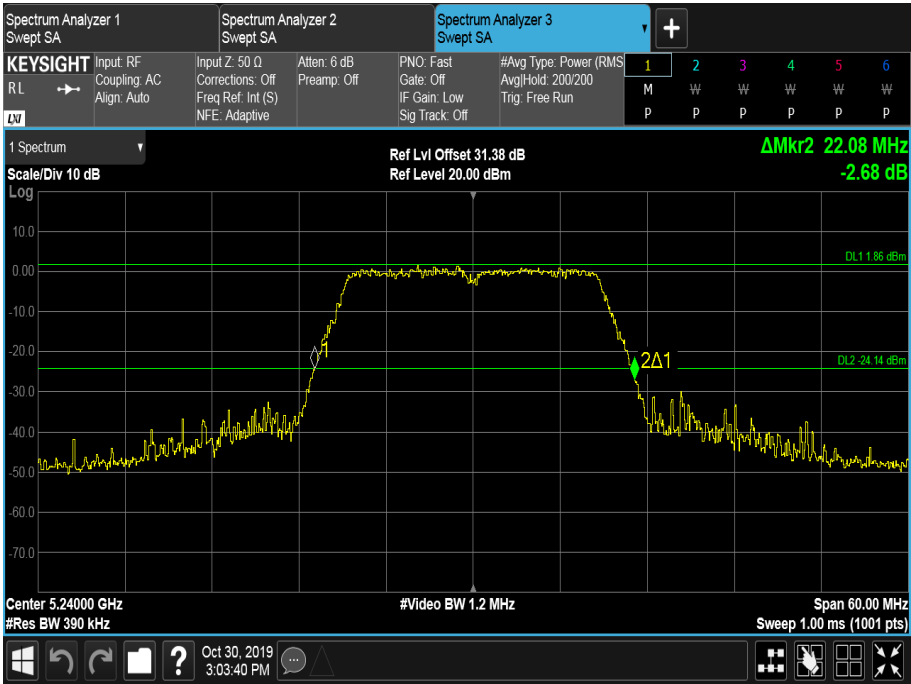


Figure 59 - 5240 MHz - 26 dB Emission Bandwidth

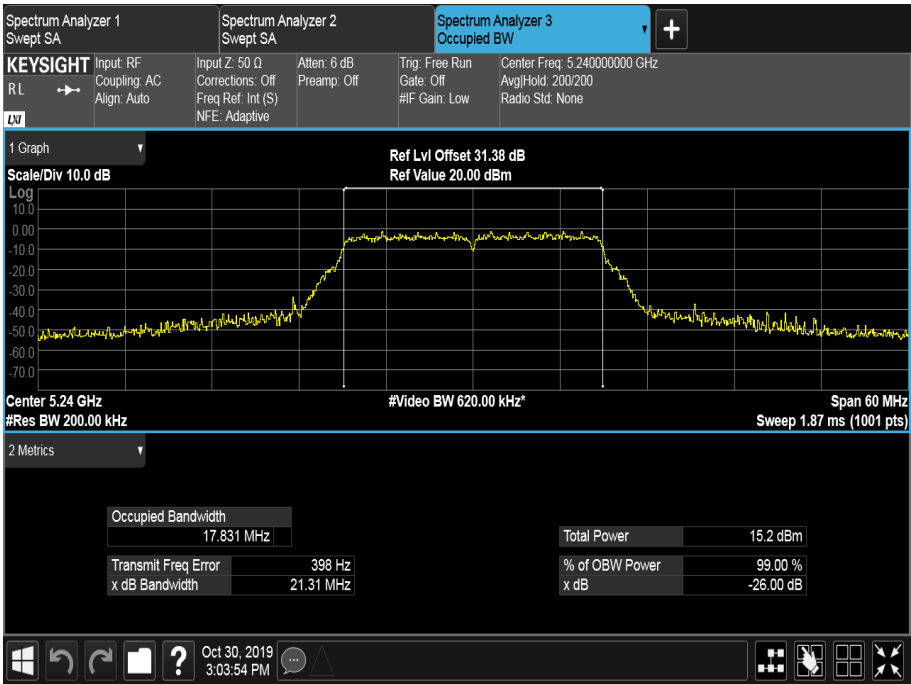


Figure 60 - 5240 MHz - 99% Occupied Bandwidth

Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
26 dB Bandwidth (MHz)	22.200	22.020	21.900
99% Bandwidth (MHz)	17.832	17.856	17.821

Table 284 - 802.11n / HT20 MCS0 / MIMO CDD / Cores 0+1+2 / Country Code US

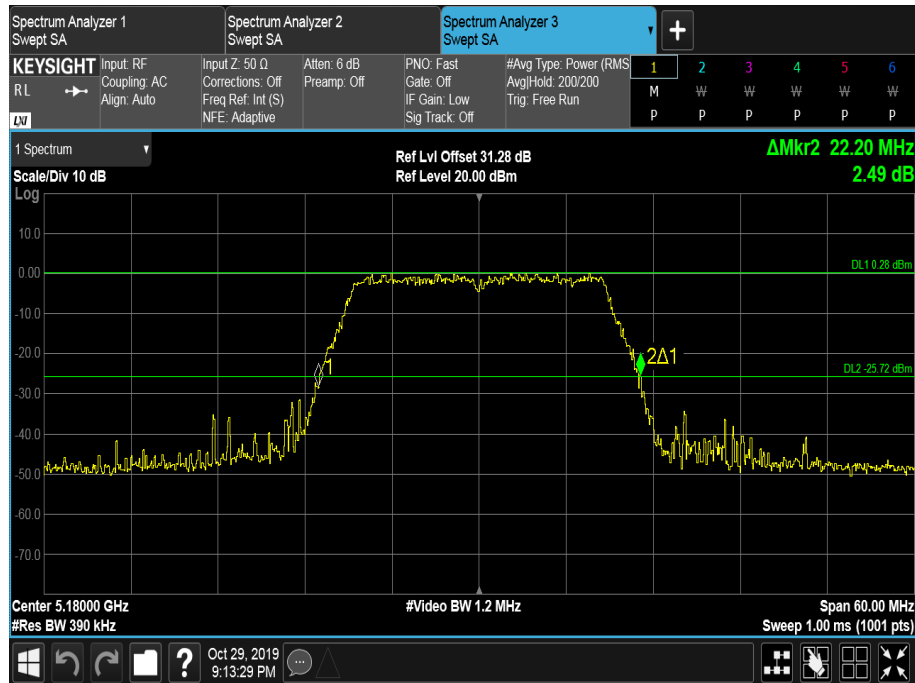


Figure 61 - 5180 MHz - 26 dB Emission Bandwidth

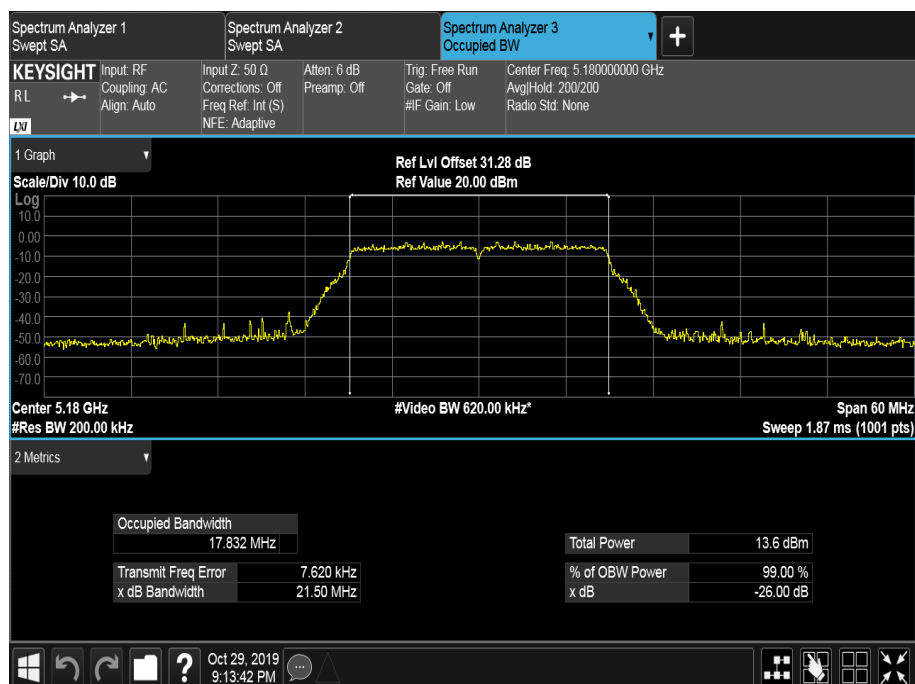


Figure 62 - 5180 MHz - 99% Occupied Bandwidth

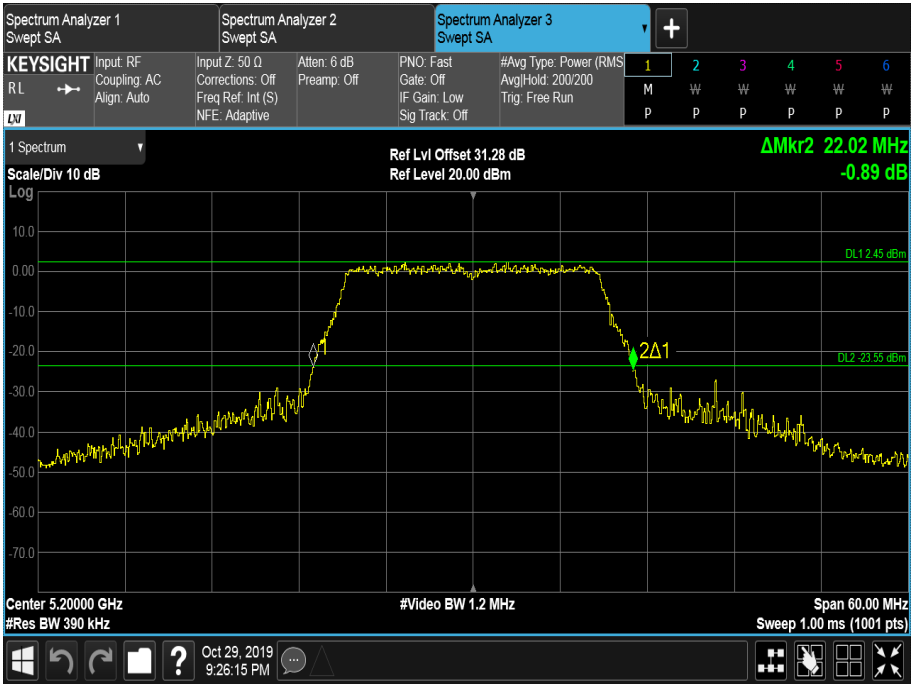


Figure 63 - 5200 MHz - 26 dB Emission Bandwidth

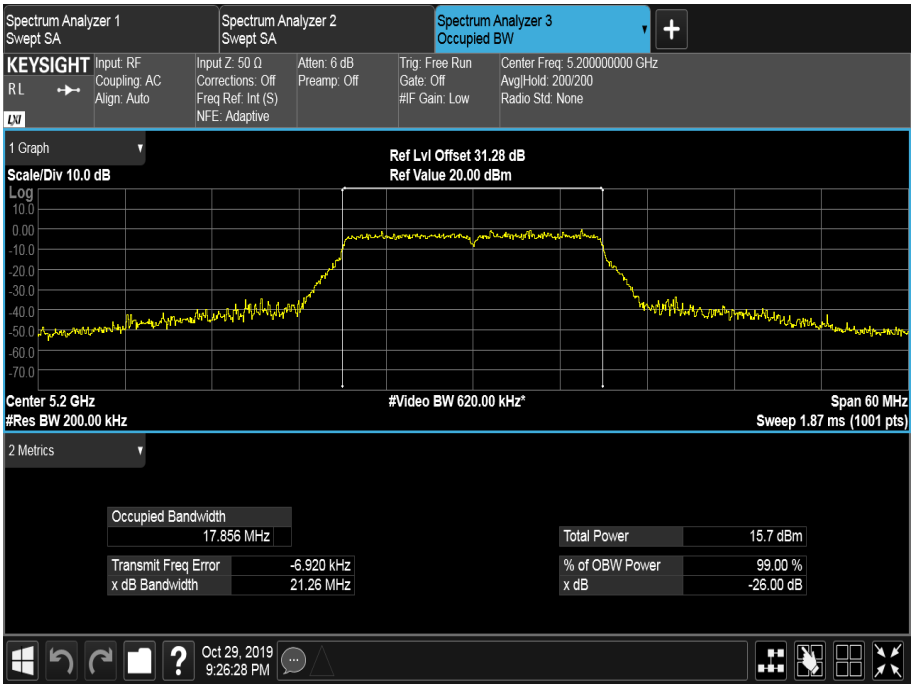


Figure 64 - 5200 MHz - 99% Occupied Bandwidth

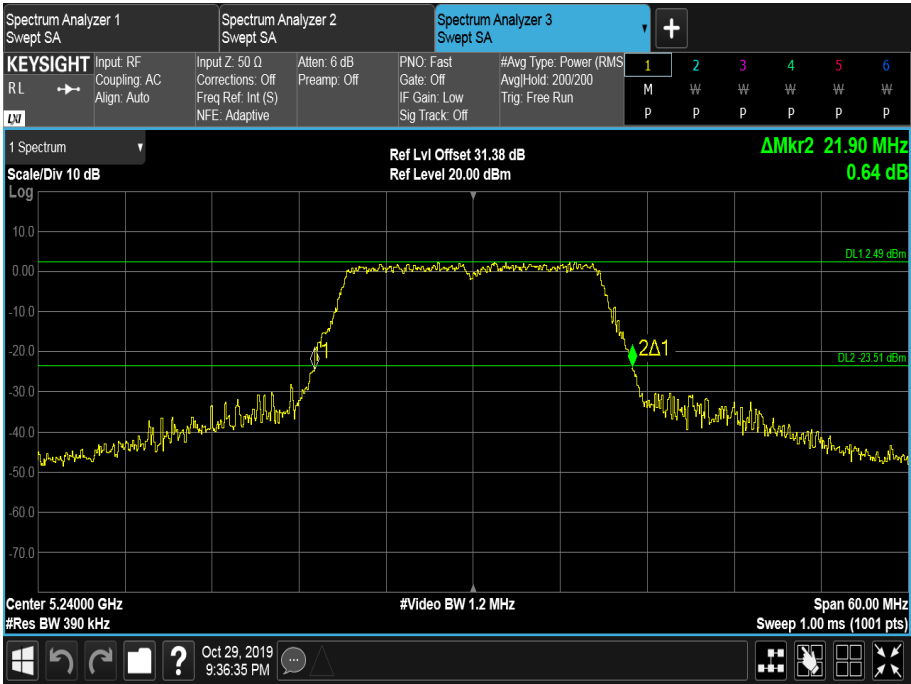


Figure 65 - 5240 MHz - 26 dB Emission Bandwidth

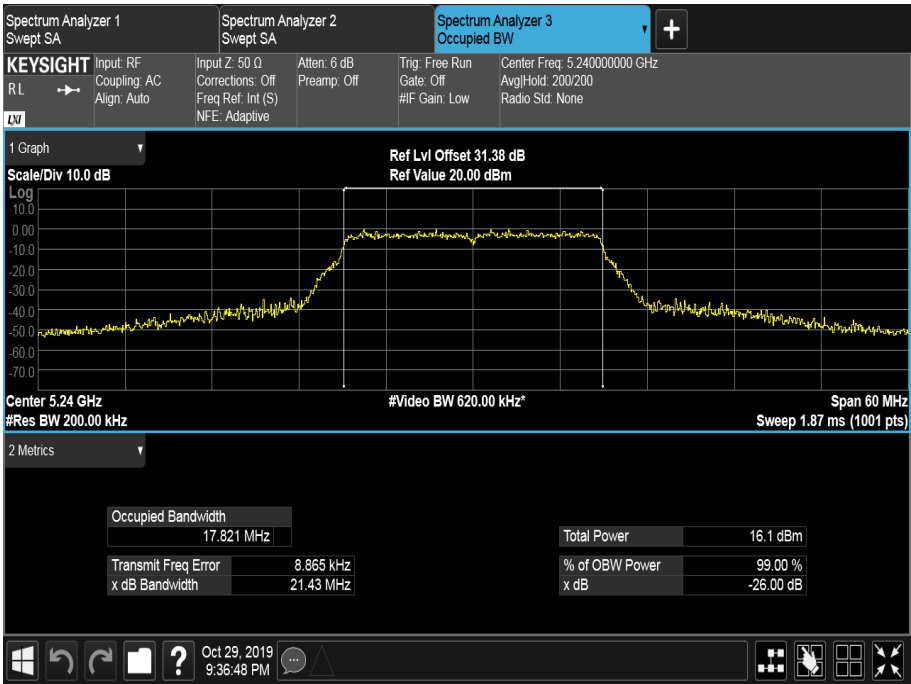


Figure 66 - 5240 MHz - 99% Occupied Bandwidth

Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
26 dB Bandwidth (MHz)	21.960	21.900	22.140
99% Bandwidth (MHz)	17.826	17.869	17.797

Table 285 - 802.11n / HT20 MCS0 / MIMO CDD / Cores 0+1+2 / Country Code CA

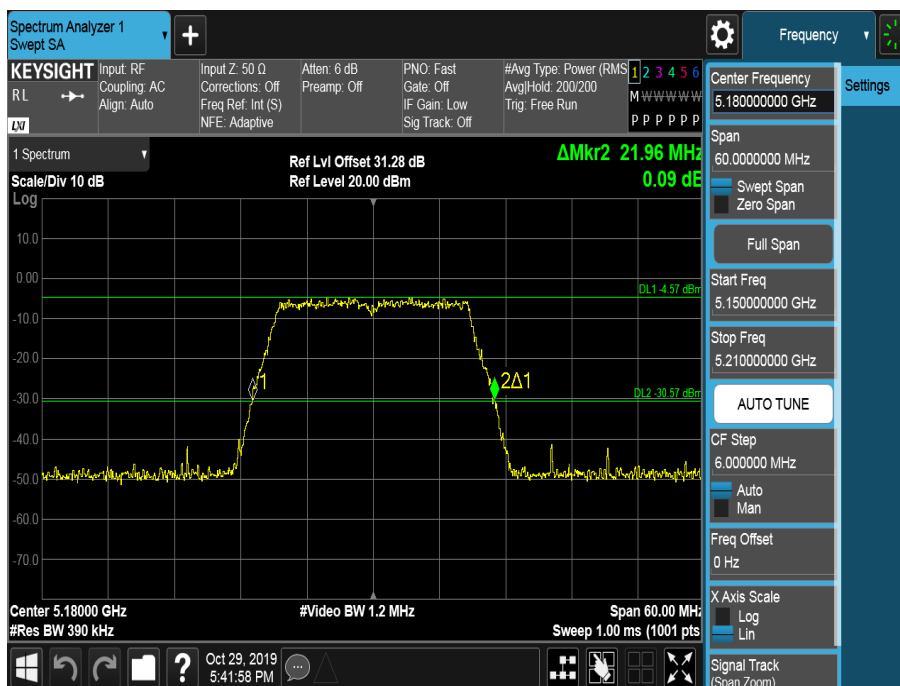


Figure 67 - 5180 MHz - 26 dB Emission Bandwidth

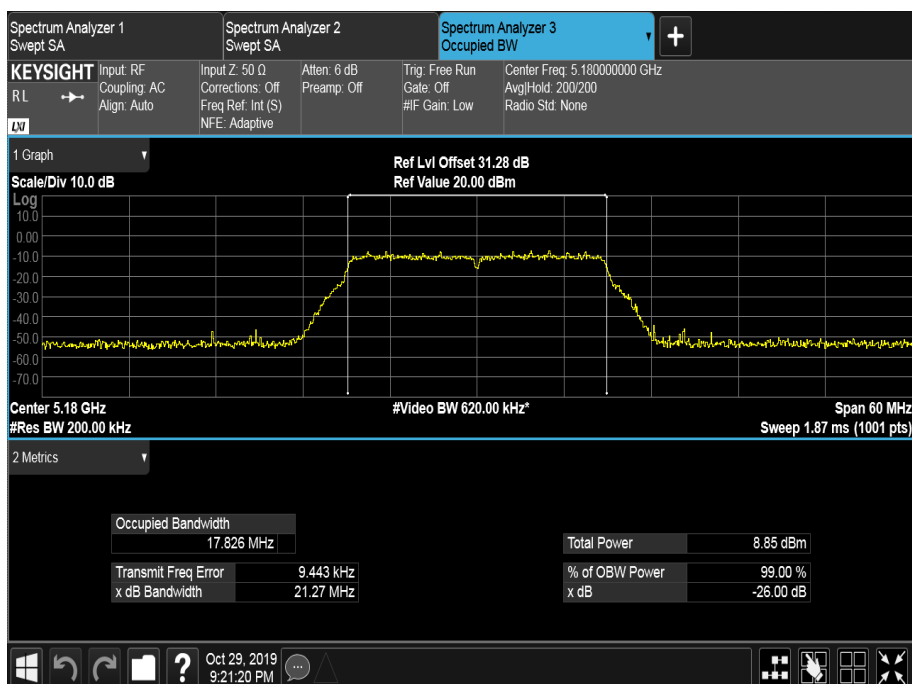


Figure 68 - 5180 MHz - 99% Occupied Bandwidth

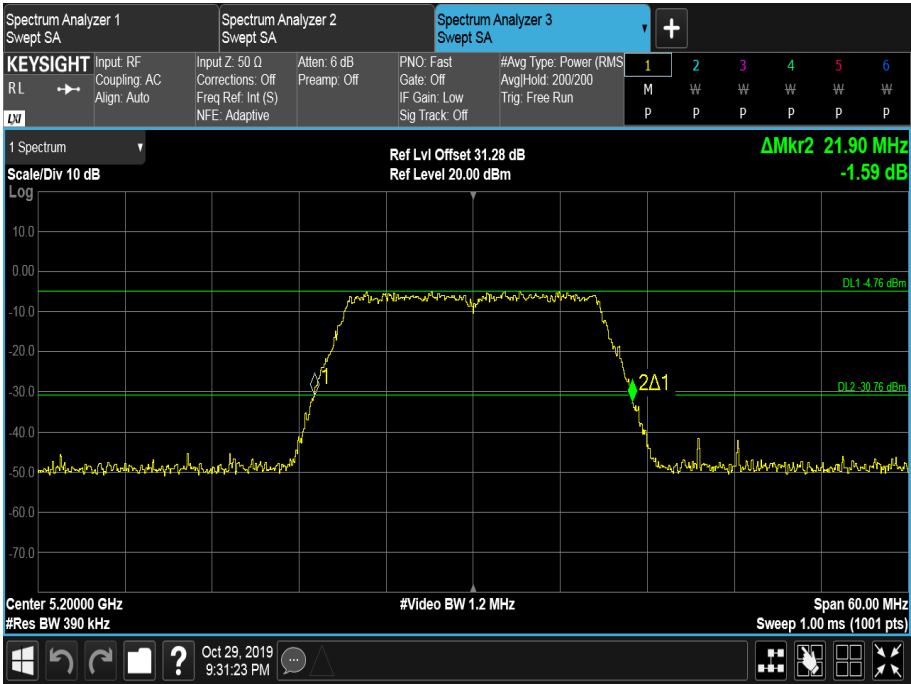


Figure 69 - 5200 MHz - 26 dB Emission Bandwidth

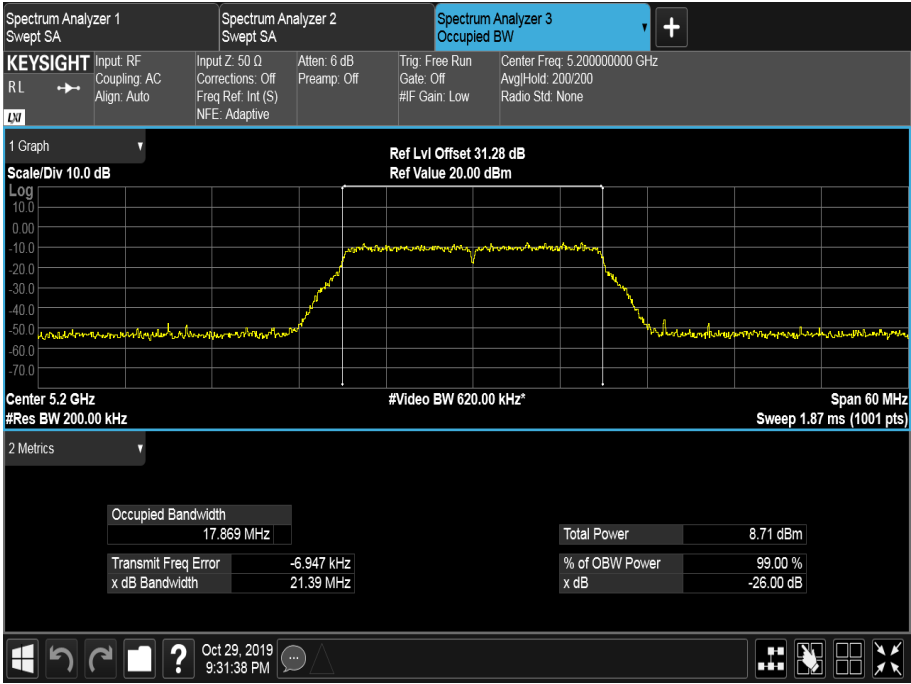


Figure 70 - 5200 MHz - 99% Occupied Bandwidth

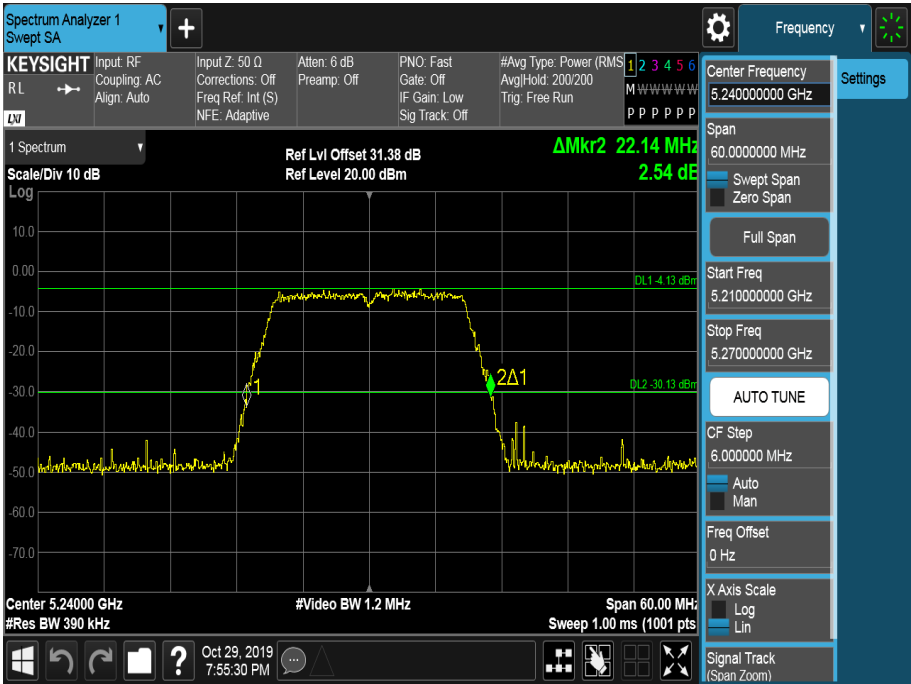


Figure 71 - 5240 MHz - 26 dB Emission Bandwidth

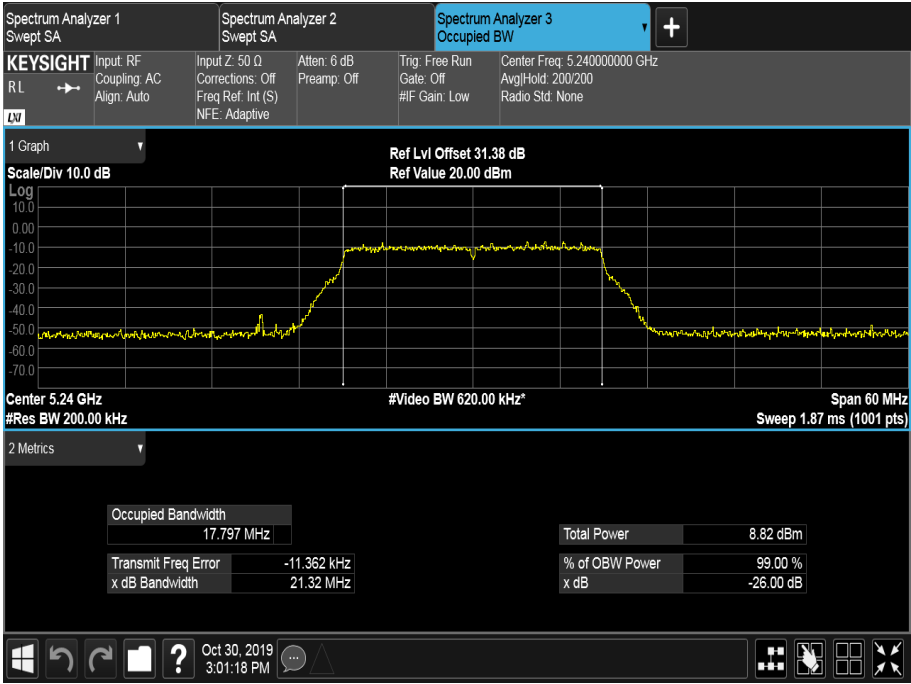


Figure 72 - 5240 MHz - 99% Occupied Bandwidth



Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
26 dB Bandwidth (MHz)	21.900	39.480	34.560
99% Bandwidth (MHz)	17.837	18.176	18.077

Table 286 - 802.11n / HT20 MCS16 / MIMO SDM / Cores 0+1+2 / Country Code US

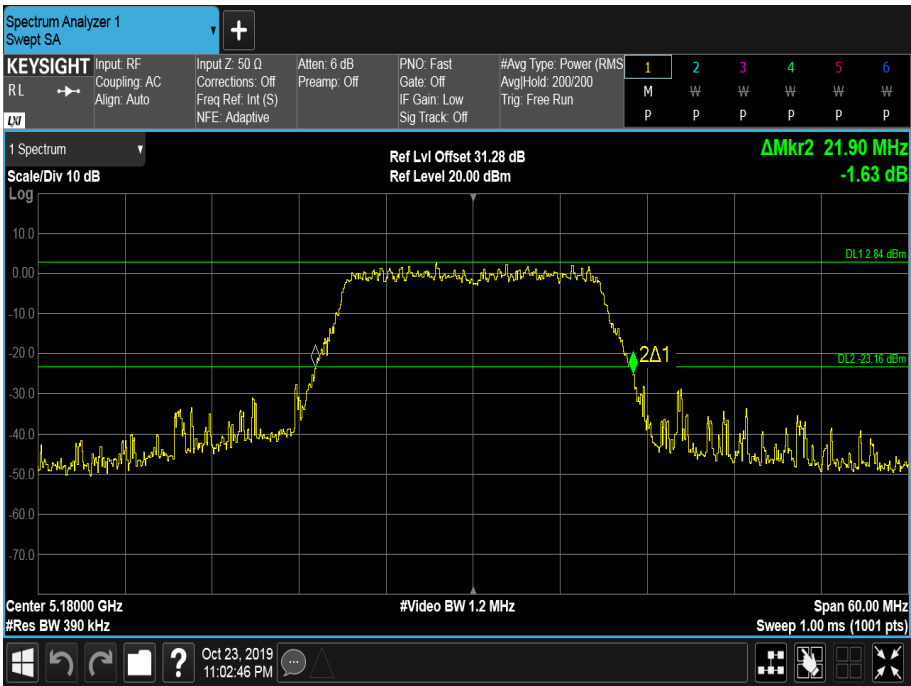


Figure 73 - 5180 MHz - 26 dB Emission Bandwidth

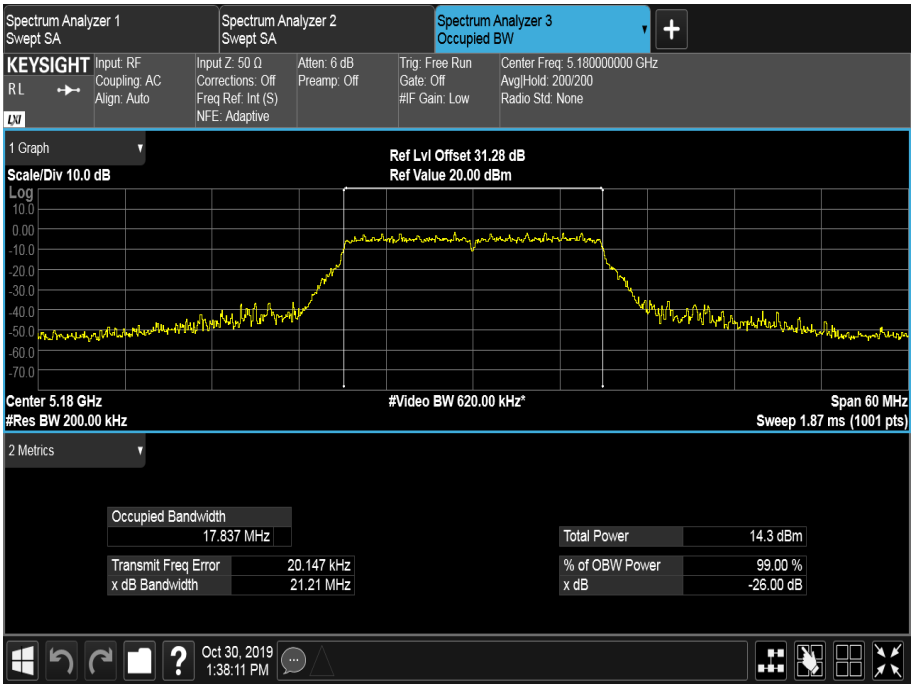


Figure 74 - 5180 MHz - 99% Occupied Bandwidth

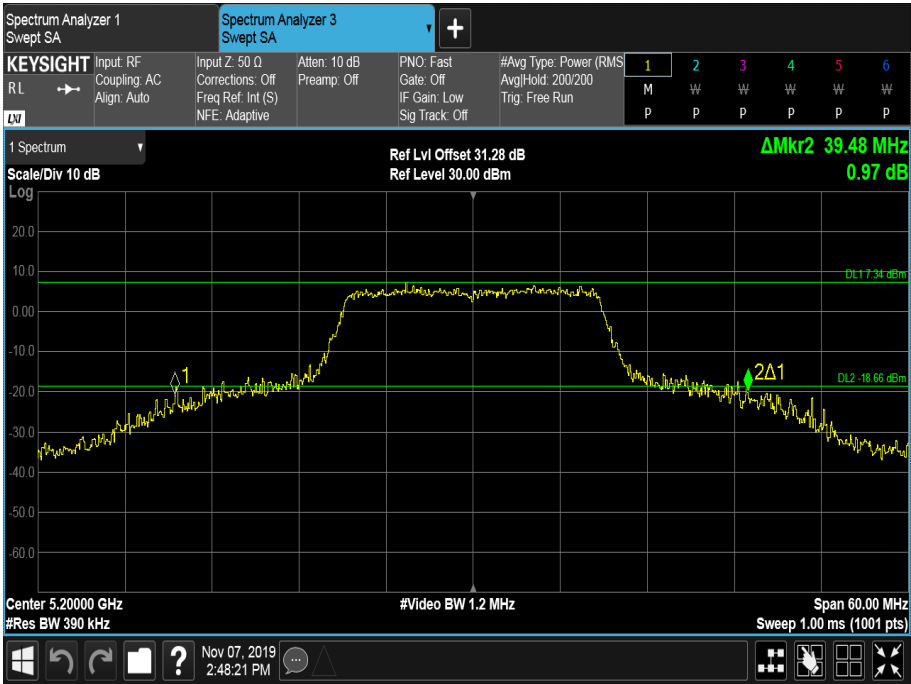


Figure 75 - 5200 MHz - 26 dB Emission Bandwidth

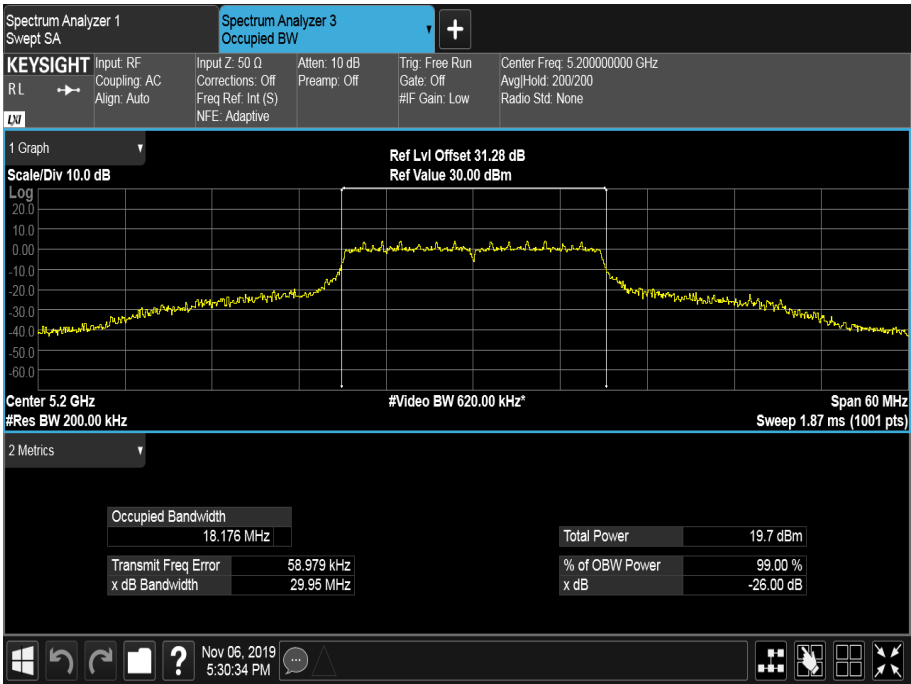


Figure 76 - 5200 MHz - 99% Occupied Bandwidth

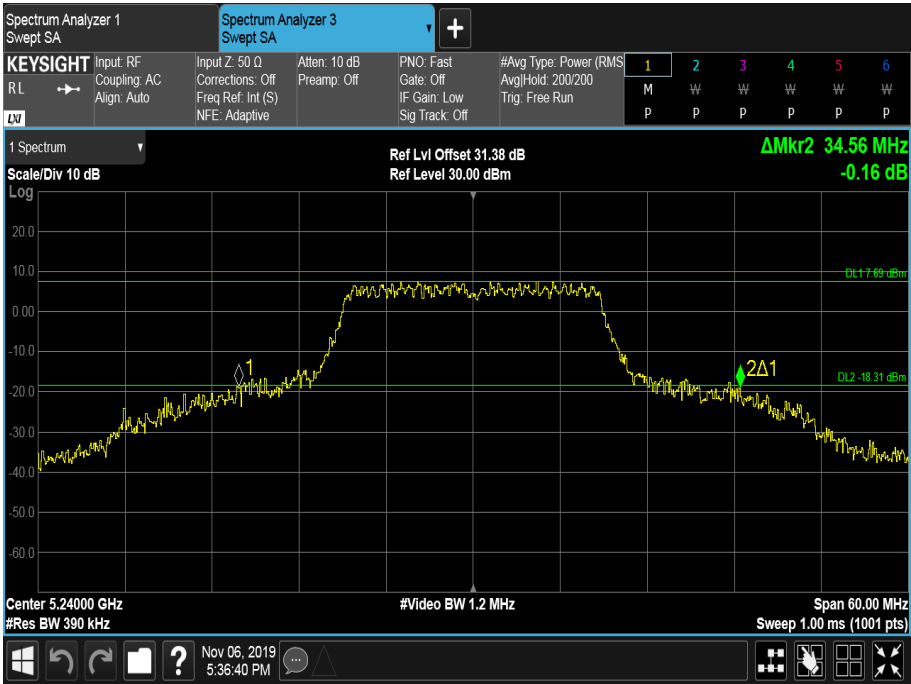


Figure 77 - 5240 MHz - 26 dB Emission Bandwidth

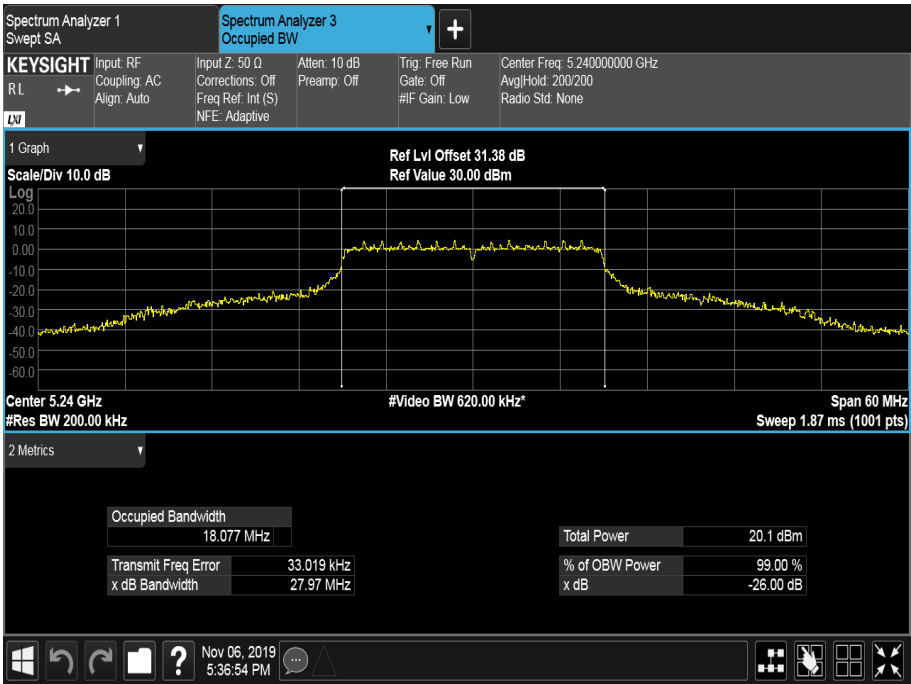


Figure 78 - 5240 MHz - 99% Occupied Bandwidth

Channel	Bottom	Middle	Top
Frequency (MHz)	5180	5200	5240
26 dB Bandwidth (MHz)	22.080	22.020	22.020
99% Bandwidth (MHz)	17.839	17.845	17.820

Table 287 - 802.11n / HT20 MCS16 / MIMO SDM / Cores 0+1+2 / Country Code CA

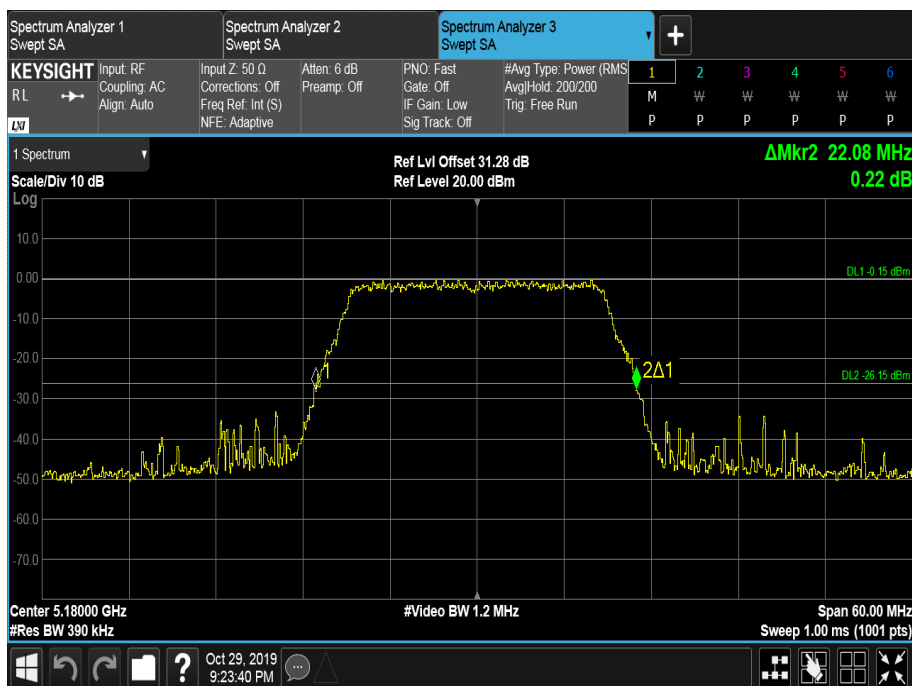


Figure 79 - 5180 MHz - 26 dB Emission Bandwidth

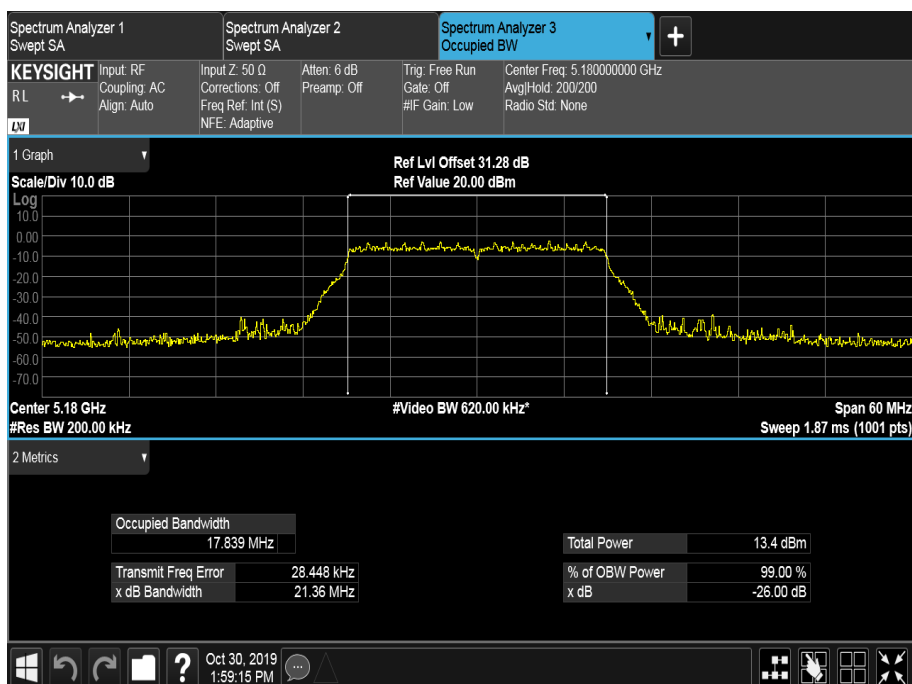


Figure 80 - 5180 MHz - 99% Occupied Bandwidth